Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Tod Noltemeyer
PASI Wisconsin
1241 Bellevue Street
Suite 9
Green Bay WI 54302

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10265141
Sample Receipt Date: 04/29/2014
Client Project #: 4094743
Client Sub PO #: N/A
State Cert #: SLD

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 4 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

May 14, 2014

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
May 14, 2014

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

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DISCUSSION

This report presents the results from the analyses performed on twenty-nine samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 54-102%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners; the affected values were flagged "I" where incorrect isotope ratios were obtained or "P" where polychlorinated diphenyl ethers were present. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to contain trace levels of selected congeners. These levels were below the calibration range of the method. Sample levels similar to the corresponding method blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory and matrix spike samples were also prepared using clean reference material or sample matrix that had been fortified with native standards. Recoveries of the native compounds ranged from 84-134% with relative percent differences of 0.0-13.3%. The recovery value obtained for 1,2,3,6,7,8-HxCDD in the matrix spike duplicate prepared using sample MAK120O was above the 70-130% target range and may indicate a high bias for this congener in the associated field sample analyses. However, since HxCDD isomers were not detected in the associated field samples, the accuracy of the reported results was not impacted by this deviation. Matrix spikes were not prepared with the 05/07/2014 sample batch.

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

WHO1998 Factors

Compound	TEF
2,3,7,8-TCDD	1.000000
1,2,3,7,8-PeCDD	1.000000
1,2,3,4,7,8-HxCDD	0.100000
1,2,3,6,7,8-HxCDD	0.100000
1,2,3,7,8,9-HxCDD	0.100000
1,2,3,4,6,7,8-HpCDD	0.010000
OCDD	0.000100
Total TCDD	0.000000
Total PeCDD	0.000000
Total HxCDD	0.000000
Total HpCDD	0.000000
2,3,7,8-TCDF	0.100000
1,2,3,7,8-PeCDF	0.050000
2,3,4,7,8-PeCDF	0.500000
1,2,3,4,7,8-HxCDF	0.100000
1,2,3,6,7,8-HxCDF	0.100000
2,3,4,6,7,8-HxCDF	0.100000
1,2,3,7,8,9-HxCDF	0.100000
1,2,3,4,6,7,8-HpCDF	0.010000
1,2,3,4,7,8,9-HpCDF	0.010000
OCDF	0.000100
Total TCDF	0.000000
Total PeCDF	0.000000
Total HxCDF	0.000000
Total HpCDF	0.000000

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Appendix A

Sample Management

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Sample ID Cross Reference

Client Sample ID	Pace Sample ID	Date Received	Sample Type
MAK109O	10265141001	04/29/2014	Octopus
MAK109O-MS	10265141001-MS2	04/29/2014	Octopus
MAK109O-MSD	10265141001-MSD2	04/29/2014	Octopus
MAK110O	10265141002	04/29/2014	Octopus
MAK111O	10265141003	04/29/2014	Octopus
MAK112O	10265141004	04/29/2014	Octopus
MAK113O	10265141005	04/29/2014	Octopus
MAK114O	10265141006	04/29/2014	Octopus
MAK115O	10265141007	04/29/2014	Octopus
MAK116O	10265141008	04/29/2014	Octopus
MAK117O	10265141009	04/29/2014	Octopus
MAK118O	10265141010	04/29/2014	Octopus
MAK119O	10265141011	04/29/2014	Octopus
MAK120O	10265141012	04/29/2014	Octopus
MAK120O-MS	10265141012-MS2	04/29/2014	Octopus
MAK120O-MSD	10265141012-MSD2	04/29/2014	Octopus
MAK121O	10265141013	04/29/2014	Octopus
MAK122O	10265141014	04/29/2014	Octopus
MAK123O	10265141015	04/29/2014	Octopus
MAK124O	10265141016	04/29/2014	Octopus
MAK130L	10265141017	04/29/2014	Limu
MAK132L	10265141018	04/29/2014	Limu
MAK134L	10265141019	04/29/2014	Limu
MAK135L	10265141020	04/29/2014	Limu
MAK138L	10265141021	04/29/2014	Limu
MAK121C	10265141022	04/29/2014	Sea Cucumb
MAK122C	10265141023	04/29/2014	Sea Cucumb
MAK123C	10265141024	04/29/2014	Sea Cucumb
MAK124C	10265141025	04/29/2014	Sea Cucumb
MAK125C	10265141026	04/29/2014	Sea Cucumb
MAK126C	10265141027	04/29/2014	Sea Cucumb
MAK127C	10265141028	04/29/2014	Sea Cucumb
MAK128C	10265141029	04/29/2014	Sea Cucumb

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10265141

ARDL, Inc

P.O. Box 1566, 400 Aviation Drive, Mount Vernon, Illinois 62864
Phone (618) 244-3235, Fax (618) 244-1149

CHAIN OF CUSTODY RECORD

Project
ARDL / Makau Military Reservation Oahu, Hawaii Project

SAMPLERS (Signature)

PACE

SAMPLE NUMBER	DATE	TIME	Comp	Grab	# of Containers	Dioxins/Furans (17 congeners of interest)	Remarks or Sample Location	PRESERVATION: ICED	PRESERVATION: Specify Chemicals added and final pH if known
MAK109O	1/31/2014	10:45		x	1	x	Octopus	x	001
MAK110O	3/28/2014	8:38		x	1	x	Octopus	x	002
MAK111O	3/28/2014	9:20		x	1	x	Octopus	x	003
MAK112O	3/28/2014	10:00		x	1	x	Octopus	x	004
MAK113O	3/28/2014	10:35		x	1	x	Octopus	x	005
MAK114O	3/28/2014	11:32		x	1	x	Octopus	x	006
MAK115O	3/28/2014	13:01		x	1	x	Octopus	x	007
MAK116O	3/28/2014	14:58		x	1	x	Octopus	x	008
MAK117O	3/28/2014	16:43		x	1	x	Octopus	x	009
MAK118O	3/27/2014	8:50		x	1	x	Octopus	x	010
MAK119O	3/27/2014	9:20		x	1	x	Octopus	x	011
MAK120O	3/27/2014	11:23		x	1	x	Octopus	x	012
MAK121O	3/27/2014	12:05		x	1	x	Octopus	x	013
MAK122O	3/27/2014	13:05		x	1	x	Octopus	x	014
MAK123O	3/27/2014	15:08		x	1	x	Octopus	x	015
MAK124O	3/28/2014	12:25		x	1	x	Octopus	x	016
MAK130L	3/27/2014	8:20		x	1	x	Limu (Sea Weed)	x	017
MAK132L	3/28/2014	8:38		x	1	x	Limu (Sea Weed)	x	018
MAK134L	3/28/2014	9:20		x	1	x	Limu (Sea Weed)	x	019
MAK135L	3/28/2014	10:00		x	1	x	Limu (Sea Weed)	x	020
MAK138L	3/28/2014	11:32		x	1	x	Limu (Sea Weed)	x	021

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
[signature]	4-28	1600	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature) [signature]	Date 4-29-14	Time 953	Shipping Ticket No. T= -2.5

REMARKS / SPECIAL INSTRUCTIONS:

Project Samples. Please treat each matrix separately.

Please send level 4 hardcopy report and excel edd to: Dean Dickerson, c/o ARDL, Inc. 400 Aviation Drive, Mount Vernon, IL 62864. Email questons to ddickerson@ardlinc.com.

10265141

ARDL, Inc

P.O. Box 1566, 400 Aviation Drive, Mount Vernon, Illinois 62864
Phone (618) 244-3235, Fax (618) 244-1149

CHAIN OF CUSTODY RECORD

Project
ARDL / Makau Military Reservation Oahu, Hawaii Project

SAMPLERS (Signature)

SAMPLE NUMBER	DATE	TIME	Comp	Grab	# of Containers	Dioxins/Furans (17 congeners of interest)	PACE Remarks or Sample Location	PRESERVATION ICED	PRESERVATION Specify Chemicals added and final pH if known
MAK121C	3/28/2014	10:35		x	1	x	Sea Cucumber	x	022
MAK122C	3/28/2014	13:01		X	1	x	Sea Cucumber	x	023
MAK123C	3/28/2014	14:06		x	1	x	Sea Cucumber	x	024
MAK124C	3/28/2014	15:20		x	1	x	Sea Cucumber	x	025
MAK125C	3/28/2014	15:30		x	1	x	Sea Cucumber	x	026
MAK126C	3/28/2014	15:47		x	1	x	Sea Cucumber	x	027
MAK127C	3/28/2014	16:10		x	1	x	Sea Cucumber	x	028
MAK128C	3/28/2014	16:43		x	1	x	Sea Cucumber	x	029

	Date	Time		
Relinquished by: (Signature)	4-28	1600	Relinquished by: (Signature)	REMARKS / SPECIAL INSTRUCTIONS:
Relinquished by: (Signature)			Relinquished by: (Signature)	Project Samples. Please treat each matrix separately.
Received for Laboratory by: (Signature)	4-29-14	953	Shipping Ticket No. T=-2.5	Please send level 4 hardcopy report and excel edd to: Dean Dickerson, c/o ARDL, Inc. 400 Aviation Drive, Mount Vernon, IL 62864. Email questons to ddickerson@ardlinc.com.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 28Feb2014 Page 1 of 1
	Document No.: **F-MN-L-213-rev.09**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ARDL via Pace GB

Project #: WO#: 10265141

10265141

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☑ Other: Walco

Tracking Number:

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other: Boxes Cases **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ B88A9130516413 ☐ B88A912167504 ☑ B88A9132521491 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): -2.5 **Cooler Temp Corrected (°C):** -2.5 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** 4-29-14 /MS

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: TS	☐ Yes	☑ No	☐ N/A	12. Samples MOK 1040, 1200, 1301, 1210 all have 2 sample containers
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: JD **Date:** 05/01/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Dioxin Tissue EB-14769

		Extract Solvents:		**Extraction On (Date/Time):**	
QC Matrix Lot #:	CORN OIL 172	**Toluene Lot #**			05/06/14 22:00
Time of Spiking:	05/06/14 21:00	**Hexane Lot #**	140621	**Extraction Off (Date/Time):**	
Balance:	10BAL2	**MeCl Lot #**	138197		05/07/14 14:00

Standards	**Name/ID**	**Amount**	**Initial**	**Witness**	**Expiration Date**
Internal Std.	FS-I-9966-107	20	KH		04/29/15
Native	FS-N-9966-105	20	KH		03/07/15
Cl37 Std.	DWC-9966-103	250	KH		05/24/14
Recovery	FS-R-9966-099	10	MF		01/01/15
Tridecane	A0322888	10	MF		
Others					

#	Sample ID	Internal Standards	Native Standards	Extracted mL or g	Glassware Set	Location	Comments
1	BLANK-40418	x		21.6			
2	LCS-40419	x	x	21.6			
3	10265141001-MS2	x	x	20.2		Rcving	
4	10265141001-MSD2	x	x	20.3		Rcving	
5	10265141012-MS2	x	x	20.2		Rcving	
6	10265141012-MSD2	x	x	20.8		Rcving	
7	10265141001	x		21.2		Rcving	
8	10265141002	x		20.3		Rcving	
9	10265141003	x		20.1		Rcving	
10	10265141004	x		20.9		Rcving	
11	10265141005	x		20.3		Rcving	
12	10265141006	x		20.2		Rcving	
13	10265141007	x		20.8		Rcving	
14	10265141008	x		20.3		Rcving	
15	10265141009	x		20.2		Rcving	
16	10265141010	x		20.1		Rcving	
17	10265141011	x		20.4		Rcving	
18	10265141012	x		20.4		Rcving	
19	10265141013	x		20.6		Rcving	
20	10265141014	x		20.5		Rcving	
21	10265141015	x		20.8		Rcving	
22	10265141016	x		20.4		Rcving	
23	10265141017	x		20.8		Rcving	
24	10265141018	x		20.6		Rcving	

Relinquished By: M Felea Received By: Date:

Batch Notes:

EB-14769

Silica		**Alumina**		**Carbon**		**Florisil**	
Initials	PED/TDP	Initials	MF	Initials	MF/TDP	Initials	
Date	5/8/2014	Date	5/9/2014	Date	5/9/2014	Date	
Neutral Batch	247	Alumina Lot #	31	Hexane Lot #	141349	Florisil Lot #	
Basic Batch	330	Hexane Lot #	141349	Dispenser	Q193	Hexane Lot #	
Acid Batch	497	Dispenser	Q193	50% Batch	436	Dispenser	
Hexane Lot #	141348	60% Batch	1579	Dispenser	Q257	6% Batch	
Dispenser	Q193	Dispenser	HRBT-011	75% Batch	327	Dispenser	
				Dispenser	Q257		
				Toluene Lot #	136852		
				Dispenser	Q257		

Acid Base

Sulphuric Acid Lot #	
Base Batch	

Dioxin	Tissue	Soxhlet	EB-14779

		Extract Solvents:		**Extraction On (Date/Time):**	
QC Matrix Lot #:		**Toluene Lot #**			05/07/14 23:15
Time of Spiking:	05/07/14 22:15	**Hexane Lot #**	140621	**Extraction Off (Date/Time):**	
Balance:	10BAL2	**MeCl Lot #**	138197		05/08/14 15:15

Standards	**Name/ID**	**Amount**	**Initial**	**Witness**	**Expiration Date**
Internal Std.	FS-I-9966-107	20	TDP	KH	04/29/15
Native	FS-N-9966-105	20	TDP	KH	03/07/15
Cl37 Std.	DWCL4-9966-103	250	TDP		05/24/14
Recovery	FS-R-9966-099	10	MCH		01/01/15
Tridecane	TRIDEC 10UL	10	MCH		
Others					

#	Sample ID	Internal Standards	Native Standards	Extracted mL or g	Glassware Set	Location	Comments
1	BLANK-40456	x		20.2			
2	LCS-40457	x	x	20.5			
3	LCSD-40458	x	x	20.0			
4	10265141019	x		20.0		Rcving	
5	10265141020	x		20.3		Rcving	
6	10265141021	x		20.5		Rcving	
7	10265141022	x		20.0		Rcving	
8	10265141023	x		20.1		Rcving	
9	10265141024	x		20.4		Rcving	
10	10265141025	x		20.4		Rcving	
11	10265141026	x		20.4		Rcving	
12	10265141027	x		20.5		Rcving	
13	10265141028	x		20.7		Rcving	
14	10265141029	x		20.6		Rcving	

Relinquished By: M

Received By:

Date:

Batch Notes:

EB-14779

FT-MCH 5/13/14

BALANCE P-1885308

Silica		**Alumina**		**Carbon**		**Florisil**	
Initials	TDP	Initials	MF	Initials	PED	Initials	
Date	5/10/2014	Date	5/12/2014	Date	5/12/2014	Date	
Neutral Batch	247N	Alumina Lot #	10	Hexane Lot #	141349	Florisil Lot #	
Basic Batch	330B	Hexane Lot #	141349	Dispenser		Hexane Lot #	
Acid Batch	497A	Dispenser	Q193	50% Batch	436	Dispenser	
Hexane Lot #	141349	60% Batch	1579	Dispenser	Q257	6% Batch	
Dispenser		Dispenser	HRBT-011	75% Batch	328	Dispenser	
				Dispenser	Q257		
				Toluene Lot #	136852		
				Dispenser	Q257		

Acid Base

Sulphuric Acid Lot #

Base Batch

Client names have been blacked out on notebook pages in order to preserve client confidentiality

Analysis Key Code List

- = Not used

✔ = Worked up

= See comment # below

Li = Liner, replace or clean

Ba = Baseplate, change

SyB = Syringe, replace – bent

SyP = Syringe, replace – plugged

SyO = Syringe, replace – other

IS = Injector Septum, replace

BS = Batch Septum, replace

Fi = Filament, replace

Co = Contacts, adjust

Ca = re-Calibrate

Tu = Tune

TC = Tune and Calibrate

CC () = Cut Column (length cut)

CO = Carry-Over possible

RRM = ReRun - Matrix

RRLM = ReRun – Lock Mass

RRBI = ReRun – Bad Injection

RRRT = ReRun – Retention Time shift

RR>S = Rerun – need better Sensitivity

Re = Re-extract

AS = Adjust Slits

LC = Leak Check

RB = Re-Boot system

CiS = Cleaned inner Source

CoS = Cleaned outer Source

AiS = Alternate inner Source

AoS = Alternate outer Source

<Y = Adjust Y focus down

>Y = Adjust Y focus up

Di () = Dilution needed (amount needed)

FE = Front End – liner, baseplate and septum

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10MSHR05 11/25/13

Sample List: C:\MassLynx\Default.pro\Sampledb\F131125C.SPL
Last Modified: Monday, November 25, 2013 8:17:02 PM Central Standard Time
Printed: Monday, November 25, 2013 8:17:05 PM Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F131125C_01	CAL CS3/CPM-7604-288 - BAL USD331524H	8290/1613B	dioxfur	dioxfur	1	1.000000
2	F131125C_02	CAL CS2-7604-276 - BAL	8290/1613B	dioxfur	dioxfur	4	1.000000
3	F131125C_03	CAL CS1-7604-273 - BAL	8290/1613B	dioxfur	dioxfur	5	1.000000
4	F131125C_04	CAL CS0.25-7604-289 - BAL	1613B-DW	dioxfur	dioxfur	6	1.000000
5	F131125C_05	CAL CS5-7604-278 - BAL	8290/1613B	dioxfur	dioxfur	7	1.000000
6	F131125C_06	CAL CS4-7604-277 - BAL	8290/1613B	dioxfur	dioxfur	8	1.000000
7	F131125C_07	BLANK NONANE - BAL	8290/1613B	dioxfur	dioxfur	2	1.000000
8	F131125C_08	LCS LCS-37562 - BAL 2NDSRC	8290/1613B	dioxfur	dioxfur	9	1.000000
9	F131125C_09	CAL CS3/CPM-7604-288 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000
10	F131125C_10	BLANK NONANE - BAL	8290/1613B	dioxfur	dioxfur	2	1.000000
11	F131125C_11	CAL CS3-7604-275 - BAL	23	dioxfur	dioxfur	10	1.000000
12	F131125C_12	CAL CS2-7604-282 - BAL	23	dioxfur	dioxfur	11	1.000000
13	F131125C_13	CAL CS1-7604-281 - BAL	23	dioxfur	dioxfur	12	1.000000
14	F131125C_14	CAL CS5-7604-284- BAL	23	dioxfur	dioxfur	13	1.000000
15	F131125C_15	CAL CS4-7604-283 - BAL	23	dioxfur	dioxfur	14	1.000000
16	F131125C_16	BLANK NONANE - BAL	23	dioxfur	dioxfur	2	1.000000
17	F131125C_17	SAMP STD-37667 - BAL	23	dioxfur	dioxfur	15	1.000000
18	F131125C_18	CAL CS3/CPM-7604-288 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000

11/27/13

Sample List Report **MassLynx 4.1 SCN 881** 10MS'HRO 6 3/22/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140322B.SPL
Last Modified: Saturday, March 22, 2014 13:51:03 Central Daylight Time
Printed: Saturday, March 22, 2014 13:51:55 Central Daylight Time Page Position (1, 1)

carry over from previous PCB sample BAL 3/22/14

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140322B_01	CAL CS3/CPM-7604-301 - BAL scratch tune CA	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U140322B_02	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000
3	U140322B_03	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
4	U140322B_04	CAL CS3/CPM-7604-301 - BAL	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
5	U140322B_05	CAL CS2-7604-276 - BAL	82901613B	dioxfur	dioxfur	Tray1:5	1.000000
6	U140322B_06	CAL CS1-7604-273 - BAL	82901613B	dioxfur	dioxfur	Tray1:6	1.000000
7	U140322B_07	CAL CS5-7604-278 - BAL	82901613B	dioxfur	dioxfur	Tray1:7	1.000000
8	U140322B_08	CAL CS4-7604-277 - BAL	82901613B	dioxfur	dioxfur	Tray1:8	1.000000
9	U140322B_09	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
10	U140322B_10	LCS LCS-37562 - BAL 2NDSRC	82901613B	dioxfur	dioxfur	Tray1:9	1.000000
11	U140322B_11	CAL CS3/CPM-7604-301 - BAL	82901613B	dioxfur	dioxfur	Tray1:1	1.000000 pass cal
12	U140322B_12	LCS LCS-39733 - BAL	82901613B	dioxfur	dioxfur	Tray1:10	1.000000
13	U140322B_13	LCS LCSD-39734 - BAL	82901613B	dioxfur	dioxfur	Tray1:11	1.000000
14	U140322B_14	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000
15	U140322B_15	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
16	U140322B_16	SAMP 10260166001 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:12	1.000000
17	U140322B_17	SAMP 10260166002 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:13	1.000000
18	U140322B_18	SAMP 10260574001 - BAL [redacted]	8290	dioxfur	dioxfur	Tray1:14	1.000000
19	U140322B_19	SAMP 10260574002 - BAL [redacted]	8290	dioxfur	dioxfur	Tray1:15	1.000000
20	U140322B_20	SAMP 10260574003 - BAL [redacted]	8290	dioxfur	dioxfur	Tray1:16	1.000000
21	U140322B_21	SAMP 10260574004 - BAL [redacted]	8290	dioxfur	dioxfur	Tray1:17	1.000000
22	U140322B_22	BLANK NONANE - BAL yellow samples	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000
23	U140322B_23	SAMP 5093666003 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:18	1.000000
24	U140322B_24	SAMP 5093666003-MS - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:19	1.000000
25	U140322B_25	SAMP 5093666003-MSD - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:20	1.000000
26	U140322B_26	CAL CS3/CPM-7604-301 - BAL CA	82901613B	dioxfur	dioxfur	Tray1:1	1.000000

3/27/14

Sample List Report MassLynx 4.0 SCN480 SCN533 10MSHR05 5/12/14

Sample List: C:\MassLynx\Default.pro\Sampledb\F140512A.SPL

Last Modified: Monday, May 12, 2014 5:04:11 PM Central Daylight Time

Printed: Monday, May 12, 2014 5:04:13 PM Central Daylight Time

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	Process	Parameter File
1	F140512A_01	CAL CS3/CPM-7604-304 - SMT TC	8290/1613B	dioxfur	dioxfur	1	1.000000	---	---
2	F140512A_02	CAL CS3/CPM-7604-304 - SMT FE 18"	8290/1613B	dioxfur	dioxfur	1	1.000000	---	---
3	F140512A_03	CAL CS3/CPM-7604-304 - SMT windows	8290/1613B	dioxfur	dioxfur	1	1.000000	---	---
4	F140512A_04	SAMP 10265141012-MS2 - SMT WI	1613B	dioxfur	dioxfur	4	1.000000	---	---
5	F140512A_05	SAMP 10265141012-MSD2 - SMT WI	1613B	dioxfur	dioxfur	5	1.000000	---	---
6	F140512A_06	Blank Blank-38129-10x - SMT	HOUSE	dioxfur	dioxfur	3	1.000000	---	---
7	F140512A_07	Blank Blank-38129-10x - SMT	HOUSE	dioxfur	dioxfur	3	1.000000	---	---
8	F140512A_08	SAMP 10265141009 - SMT WI	1613B	dioxfur	dioxfur	6	1.000000	---	---
9	F140512A_09	SAMP 10265141010 - SMT WI	1613B	dioxfur	dioxfur	7	1.000000	---	---
10	F140512A_10	SAMP 10265141011 - SMT WI	1613B	dioxfur	dioxfur	8	1.000000	---	---
11	F140512A_11	SAMP 10265141012 - SMT WI	1613B	dioxfur	dioxfur	9	1.000000	---	---
12	F140512A_12	SAMP 10265141013 - SMT WI	1613B	dioxfur	dioxfur	10	1.000000	---	---
13	F140512A_13	SAMP 10265141014 - SMT WI	1613B	dioxfur	dioxfur	11	1.000000	---	---
14	F140512A_14	SAMP 10265141015 - SMT WI	1613B	dioxfur	dioxfur	12	1.000000	---	---
15	F140512A_15	SAMP 10265141016 - SMT WI	1613B	dioxfur	dioxfur	13	1.000000	---	---
16	F140512A_16	SAMP 10265141017 - SMT WI	1613B	dioxfur	dioxfur	14	1.000000	---	---
17	F140512A_17	SAMP 10265141018 - SMT WI	1613B	dioxfur	dioxfur	15	1.000000	---	---
18	F140512A_18	CAL CS3/CPM-7604-304 - SMT	8290/1613B	dioxfur	dioxfur	1	1.000000	---	---

Sum 5/12/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSH206 5/12/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140512A.SPL
Last Modified: Tuesday, May 13, 2014 07:20:40 Central Daylight Time
Printed: Tuesday, May 13, 2014 07:20:42 Central Daylight Time

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140512A_01	CAL CS3/CPM-7604-304 - SMT TC	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U140512A_02	LCS LCS-40419 - SMT	1613B	dioxfur	dioxfur	Tray1:4	1.000000
3	U140512A_03	SAMP 10265141001-MS2 - SMT WI	1613B	dioxfur	dioxfur	Tray1:5	1.000000
4	U140512A_04	SAMP 10265141001-MSD2 - SMT WI	1613B	dioxfur	dioxfur	Tray1:6	1.000000
5	U140512A_05	Blank Blank-36079-10X - SMT	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
6	U140512A_06	BLANK BLANK-40418 - SMT	1613B	dioxfur	dioxfur	Tray1:7	1.000000
7	U140512A_07	SAMP 10265940001 - SMT[redacted]	8290	dioxfur	dioxfur	Tray1:8	1.000000
8	U140512A_08	SAMP 10265940003 - SMT[redacted]	8290	dioxfur	dioxfur	Tray1:9	1.000000
9	U140512A_09	SAMP 10265141001 - SMT WI	1613B	dioxfur	dioxfur	Tray1:10	1.000000
10	U140512A_10	SAMP 10265141002 - SMT WI	1613B	dioxfur	dioxfur	Tray1:11	1.000000
11	U140512A_11	SAMP 10265141003 - SMT WI	1613B	dioxfur	dioxfur	Tray1:12	1.000000
12	U140512A_12	SAMP 10265141004 - SMT WI	1613B	dioxfur	dioxfur	Tray1:13	1.000000
13	U140512A_13	SAMP 10265141005 - SMT WI	1613B	dioxfur	dioxfur	Tray1:14	1.000000
14	U140512A_14	SAMP 10265141006 - SMT WI	1613B	dioxfur	dioxfur	Tray1:15	1.000000
15	U140512A_15	SAMP 10265141007 - SMT WI	1613B	dioxfur	dioxfur	Tray1:16	1.000000
16	U140512A_16	SAMP 10265141008 - SMT WI	1613B	dioxfur	dioxfur	Tray1:17	1.000000
17	U140512A_17	CAL CS3/CPM-7604-304 - SMT	82901613B	dioxfur	dioxfur	Tray1:1	1.000000

Sma 5/13/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 5/13/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140513A.SPL

Last Modified: Tuesday, May 13, 2014 15:51:02 Central Daylight Time

Printed: Tuesday, May 13, 2014 17:02:50 Central Daylight Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140513A_01	CAL CS3/CPM-7604-304 - SMT AS Ca	1613B/tetras	dioxfur	dioxfur	Tray1:1	1.000000 -16B
2	U140513A_02	BLANK NONANE - SMT	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000
3	U140513A_03	BLANK BLANK-36079-10X - SMT	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
4	U140513A_04	Blank Blank-40495 - CVS cond rinse	HOUSE	dioxfur	dioxfur	Tray1:4	1.000000
5	U140513A_05	Blank Blank-40456 - CVS	1613B	dioxfur	dioxfur	Tray1:5	1.000000
6	U140513A_06	Blank Blank-40447 - CVS	1613B	dioxfur	dioxfur	Tray1:6	1.000000
7	U140513A_07	Samp 10266121001 - CVS [redacted]	1613B	dioxfur	dioxfur	Tray1:7	1.000000
8	U140513A_08	Samp 10265141019 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:8	1.000000
9	U140513A_09	Samp 10265141020 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:9	1.000000
10	U140513A_10	Samp 10265141021 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:10	1.000000
11	U140513A_11	Samp 10265141022 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:11	1.000000
12	U140513A_12	Samp 10265141023 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:12	1.000000
13	U140513A_13	Samp 10265141009 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:13	1.000000
14	U140513A_14	Samp 10265141010 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:14	1.000000
15	U140513A_15	LCS LCS-40457 - CVS	1613B	dioxfur	dioxfur	Tray1:15	1.000000
16	U140513A_16	LCS LCSD-40458 - CVS	1613B	dioxfur	dioxfur	Tray1:16	1.000000
17	U140513A_17	CAL CS3/CPM-7604-304 - CVS	82901613B	dioxfur	dioxfur	Tray1:1	1.000000

Snot 5/14/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 5/17/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140513B.SPL

Last Modified: Tuesday, May 13, 2014 16:18:38 Central Daylight Time

Printed: Tuesday, May 13, 2014 16:19:16 Central Daylight Time

Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140513B_01	Blank Blank-36079-10x - CVS	1613B	dioxfur	dioxfur	Tray1:3	1.000000
2	U140513B_02	Blank Nonane - CVS	1613B	dioxfur	dioxfur	Tray1:2	1.000000
3	U140513B_03	Samp 10265141024 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:17	1.000000
4	U140513B_04	Samp 10265141025 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:18	1.000000
5	U140513B_05	Samp 10265141026 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:19	1.000000
6	U140513B_06	Samp 10265141027 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:20	1.000000
7	U140513B_07	Samp 10265141028 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:21	1.000000
8	U140513B_08	Samp 10265141029 - CVS P WI	1613B	dioxfur	dioxfur	Tray1:22	1.000000
9	U140513B_09	BLANK BLANK-40468 - BAL	1613B	dioxfur	dioxfur	Tray1:23	1.000000
10	U140513B_10	SAMP 10266310001 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:24	1.000000
11	U140513B_11	SAMP 10266335001 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:25	1.000000
12	U140513B_12	SAMP 10266337001 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:26	1.000000
13	U140513B_13	SAMP 10266281001 - BAL [redacted]	1613B	dioxfur	dioxfur	Tray1:27	1.000000
14	U140513B_14	LCS LCS-40469 - BAL	1613B	dioxfur	dioxfur	Tray1:28	1.000000
15	U140513B_15	LCS LCSD-40470 - BAL	1613B	dioxfur	dioxfur	Tray1:29	1.000000
16	U140513B_16	Blank Nonane - BAL	1613B	dioxfur	dioxfur	Tray1:2	1.000000
17	U140513B_17	CAL CS1-7604-281 - BAL	23	dioxfur	dioxfur	Tray1:30	1.000000
18	U140513B_18	CAL CS1-7604-273 - BAL	82901613B	dioxfur	dioxfur	Tray1:31	1.000000

5/14/14

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK109O		
Lab Sample ID	10265141001		
Filename	U140512A_09		
Injected By	SMT		
Total Amount Extracted	21.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 10:45
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 17:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.12	0.100	IJ	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	ND	-----	0.100		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.092		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.092		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	0.080		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.059		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	0.069		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.078		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	-----	0.078		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.057		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.070		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	0.079				
1,2,3,7,8,9-HxCDF	ND	-----	0.088		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.073		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.071		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.068				
1,2,3,7,8,9-HxCDD	ND	-----	0.069				
Total HxCDD	ND	-----	0.069				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.084		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.120		Equivalence: 0.013 ng/Kg		
Total HpCDF	ND	-----	0.100		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.11	0.066	IJ			
Total HpCDD	ND	-----	0.066				
OCDF	ND	-----	0.180				
OCDD	ND	-----	0.370				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK110O		
Lab Sample ID	10265141002		
Filename	U140512A_10		
Injected By	SMT		
Total Amount Extracted	20.3 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 08:38
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 17:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.14	-----	0.092	J	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	0.14	-----	0.092	BJ	2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.096		2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD	ND	-----	0.096		1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	0.081		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.069		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.075		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.110		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.110		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.067		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.058		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	0.061				
1,2,3,7,8,9-HxCDF	ND	-----	0.087		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.068		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.075		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.069				
1,2,3,7,8,9-HxCDD	ND	-----	0.062				
Total HxCDD	ND	-----	0.068				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.059		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.069		Equivalence: 0.014 ng/Kg		
Total HpCDF	ND	-----	0.064		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.072				
Total HpCDD	ND	-----	0.072				
OCDF	ND	-----	0.260				
OCDD	0.39	-----	0.390	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK111O		
Lab Sample ID	10265141003		
Filename	U140512A_11		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 09:20
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 18:40

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.12	-----	0.085	J	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	0.12	-----	0.085	BJ	2,3,7,8-TCDD-13C	2.00	81
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.110		2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	0.23	-----	0.110	J	1,2,3,7,8-PeCDD-13C	2.00	63
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.075		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.062		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.068		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.160		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.160		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.097		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.070		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	0.071				
1,2,3,7,8,9-HxCDF	ND	-----	0.085		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.081		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.051		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.079				
1,2,3,7,8,9-HxCDD	ND	-----	0.095				
Total HxCDD	ND	-----	0.075				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.050		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.083		Equivalence: 0.012 ng/Kg		
Total HpCDF	ND	-----	0.066		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.110				
Total HpCDD	ND	-----	0.110				
OCDF	ND	-----	0.270				
OCDD	ND	-----	0.780				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK112O		
Lab Sample ID	10265141004		
Filename	U140512A_12		
Injected By	SMT		
Total Amount Extracted	20.9 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 10:00
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 19:24

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.120	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.120	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	63
2,3,7,8-TCDD	ND	-----	0.099	2,3,4,7,8-PeCDF-13C	2.00	56
Total TCDD	ND	-----	0.099	1,2,3,7,8-PeCDD-13C	2.00	59
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	0.081	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	-----	0.067	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.074	1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.140	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	0.140	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	0.089	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.073	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	0.083			
1,2,3,7,8,9-HxCDF	ND	-----	0.120	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.090	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.055	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	-----	0.067			
1,2,3,7,8,9-HxCDD	ND	-----	0.065			
Total HxCDD	ND	-----	0.062			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.091	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.095	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.093	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.130			
Total HpCDD	ND	-----	0.130			
OCDF	ND	-----	0.260			
OCDD	ND	-----	0.700			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK113O		
Lab Sample ID	10265141005		
Filename	U140512A_13		
Injected By	SMT		
Total Amount Extracted	20.3 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 10:35
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 20:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.14	-----	0.092	J	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.14	-----	0.092	BJ	2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	-----	0.076		2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	0.27	-----	0.076	J	1,2,3,7,8-PeCDD-13C	2.00	64
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	0.056		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.061		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	0.059		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	0.120		1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	ND	-----	0.120		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.075		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.100		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	-----	0.085				
1,2,3,7,8,9-HxCDF	ND	-----	0.084		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.086		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.062		2,3,7,8-TCDD-37Cl4	0.20	96
1,2,3,6,7,8-HxCDD	ND	-----	0.089				
1,2,3,7,8,9-HxCDD	ND	-----	0.078				
Total HxCDD	ND	-----	0.076				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.071		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.110		Equivalence: 0.014 ng/Kg		
Total HpCDF	ND	-----	0.092		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.067				
Total HpCDD	ND	-----	0.067				
OCDF	ND	-----	0.220				
OCDD	ND	-----	0.450				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
B = Less than 10x higher than method blank level

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK114O		
Lab Sample ID	10265141006		
Filename	U140512A_14		
Injected By	SMT		
Total Amount Extracted	20.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 11:32
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 20:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.140	0.100	IJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.100		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.082		2,3,4,7,8-PeCDF-13C	2.00	68
Total TCDD	0.48	-----	0.082	J	1,2,3,7,8-PeCDD-13C	2.00	72
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	-----	0.070		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.042		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.056		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.110		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.110		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.057		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.074		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	-----	0.054				
1,2,3,7,8,9-HxCDF	ND	-----	0.085		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.068		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.069		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.054				
1,2,3,7,8,9-HxCDD	ND	-----	0.053				
Total HxCDD	ND	-----	0.059				
1,2,3,4,6,7,8-HpCDF	-----	0.064	0.050	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.089		Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.070		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.120				
Total HpCDD	ND	-----	0.120				
OCDF	ND	-----	0.260				
OCDD	ND	-----	0.530				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
I = Interference present

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Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK115O		
Lab Sample ID	10265141007		
Filename	U140512A_15		
Injected By	SMT		
Total Amount Extracted	20.8 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 13:01
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 21:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.110		2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	-----	0.110		2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.087		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	0.230	-----	0.087	J	1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	-----	0.064		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	0.057		2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	ND	-----	0.061		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.120		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.120		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.085		1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	-----	0.075		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.074				
1,2,3,7,8,9-HxCDF	ND	-----	0.100		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.084		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.072		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.079				
1,2,3,7,8,9-HxCDD	ND	-----	0.056				
Total HxCDD	ND	-----	0.069				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.052		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.088		Equivalence: 0.00087 ng/Kg		
Total HpCDF	ND	-----	0.070		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.087	-----	0.083	J			
Total HpCDD	0.087	-----	0.083	BJ			
OCDF	ND	-----	0.170				
OCDD	ND	-----	0.380				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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RL = Reporting Limit.

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NC = Not Calculated

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J = Estimated value
B = Less than 10x higher than method blank level

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK116O		
Lab Sample ID	10265141008		
Filename	U140512A_16		
Injected By	SMT		
Total Amount Extracted	20.3 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 14:58
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140512A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 22:23

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.19	-----	0.065	J	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	0.19	-----	0.065	BJ	2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.072		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	-----	0.072		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.065		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.057		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.061		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.100		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.100		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	-----	0.060		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	-----	0.080		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.067				
1,2,3,7,8,9-HxCDF	ND	-----	0.099		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.076		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.060		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.060				
1,2,3,7,8,9-HxCDD	ND	-----	0.064				
Total HxCDD	ND	-----	0.062				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.076		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.098		Equivalence: 0.019 ng/Kg		
Total HpCDF	ND	-----	0.087		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.070				
Total HpCDD	ND	-----	0.070				
OCDF	ND	-----	0.170				
OCDD	-----	0.82	0.440	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
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NC = Not Calculated

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B = Less than 10x higher than method blank level
I = Interference present

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK117O		
Lab Sample ID	10265141009		
Filename	U140513A_13		
Injected By	CVS		
Total Amount Extracted	20.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 16:43
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/13/2014 17:49

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.097	0.066	IJ	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	0.074	-----	0.066	BJ	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.048		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.200	-----	0.048	J	1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.052		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.046		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.049		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.120		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.120		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	-----	0.036		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.033		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.030				
1,2,3,7,8,9-HxCDF	ND	-----	0.048		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.037		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.031		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	-----	0.043				
1,2,3,7,8,9-HxCDD	ND	-----	0.041				
Total HxCDD	ND	-----	0.038				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.034		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.049		Equivalence: 0.010 ng/Kg		
Total HpCDF	ND	-----	0.042		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.052	0.044	IJ			
Total HpCDD	0.078	-----	0.044	BJ			
OCDF	ND	-----	0.140				
OCDD	-----	0.310	0.220	IJ			

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK118O		
Lab Sample ID	10265141010		
Filename	U140513A_14		
Injected By	CVS		
Total Amount Extracted	20.1 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 08:50
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/13/2014 18:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.140	0.064	IJ	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	0.11	-----	0.064	BJ	2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.065		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	0.16	-----	0.065	J	1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.055		1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	-----	0.042		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.049		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.084		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.084		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	-----	0.080		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.065		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	0.076				
1,2,3,7,8,9-HxCDF	ND	-----	0.088		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.077		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.051		2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	-----	0.069	0.053	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.060				
Total HxCDD	ND	-----	0.054				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.057		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.075		Equivalence: 0.023 ng/Kg		
Total HpCDF	ND	-----	0.066		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.17	-----	0.066	J			
Total HpCDD	0.17	-----	0.066	BJ			
OCDF	ND	-----	0.170				
OCDD	-----	0.520	0.290	IJ			

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK119O		
Lab Sample ID	10265141011		
Filename	F140512A_10		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 09:20
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 19:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.19	0.100	PJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.100		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	0.140		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.140		1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.130		1,2,3,6,7,8-HxCDF-13C	2.00	102
2,3,4,7,8-PeCDF	ND	-----	0.150		2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	0.140		1,2,3,7,8,9-HxCDF-13C	2.00	89
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.230		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.230		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.130		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	0.110		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.100				
1,2,3,7,8,9-HxCDF	0.16	-----	0.140	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.16	-----	0.120	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.160		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.180				
1,2,3,7,8,9-HxCDD	ND	-----	0.150				
Total HxCDD	ND	-----	0.160				
1,2,3,4,6,7,8-HpCDF	-----	0.11	0.098	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.140		Equivalence: 0.038 ng/Kg		
Total HpCDF	ND	-----	0.120		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.21	0.130	IJ			
Total HpCDD	0.17	-----	0.130	BJ			
OCDF	0.38	-----	0.230	J			
OCDD	-----	0.47	0.460	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
B = Less than 10x higher than method blank level
P = PCDE Interference
I = Interference present

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK120O		
Lab Sample ID	10265141012		
Filename	F140512A_11		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 11:23
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 19:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.120		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	ND	-----	0.120		2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.110		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	0.20	-----	0.110	J	1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	-----	0.130		1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	-----	0.170		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.150		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	-----	0.200		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.200		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.100		1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	-----	0.091		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.081				
1,2,3,7,8,9-HxCDF	-----	0.11	0.100	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.095		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.120		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	0.100				
1,2,3,7,8,9-HxCDD	ND	-----	0.097				
Total HxCDD	ND	-----	0.100				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.094		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.120		Equivalence: 0.011 ng/Kg		
Total HpCDF	ND	-----	0.110		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.120				
Total HpCDD	ND	-----	0.120				
OCDF	ND	-----	0.200				
OCDD	ND	-----	0.380				

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NC = Not Calculated

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J = Estimated value
I = Interference present

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK121O		
Lab Sample ID	10265141013		
Filename	F140512A_12		
Injected By	SMT		
Total Amount Extracted	20.6 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 12:05
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 20:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.13	0.10	IJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.10		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	0.14		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.14		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	0.13		1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	ND	-----	0.19		2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	0.16		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	-----	0.21		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.21		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.12		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.11		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.10				
1,2,3,7,8,9-HxCDF	-----	0.13	0.12	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.11		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.12		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	-----	0.14	0.13	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.12				
Total HxCDD	ND	-----	0.12				
1,2,3,4,6,7,8-HpCDF	0.13	-----	0.11	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.14		Equivalence: 0.041 ng/Kg		
Total HpCDF	0.13	-----	0.12	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.14				
Total HpCDD	0.14	-----	0.14	BJ			
OCDF	ND	-----	0.27				
OCDD	ND	-----	0.41				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
B = Less than 10x higher than method blank level
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK122O		
Lab Sample ID	10265141014		
Filename	F140512A_13		
Injected By	SMT		
Total Amount Extracted	20.5 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 13:05
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 21:17

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.11	0.100	IJ	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.100		2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.110		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	0.110		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	-----	0.110		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.140		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.130		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	0.180		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.180		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	0.130		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	0.098		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	0.100				
1,2,3,7,8,9-HxCDF	ND	-----	0.130		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.140		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	0.150				
1,2,3,7,8,9-HxCDD	ND	-----	0.140				
Total HxCDD	ND	-----	0.140				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.084		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.120		Equivalence: 0.012 ng/Kg		
Total HpCDF	ND	-----	0.100		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.13	0.120	IJ			
Total HpCDD	0.14	-----	0.120	BJ			
OCDF	ND	-----	0.250				
OCDD	ND	-----	0.400				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
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NC = Not Calculated

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Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK123O		
Lab Sample ID	10265141015		
Filename	F140512A_14		
Injected By	SMT		
Total Amount Extracted	20.8 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 15:08
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 22:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.18	0.095	PJ	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.095		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	0.17	-----	0.160	J	1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.170		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.170		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.170		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	0.190		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	-----	0.190		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	-----	0.110		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	0.089		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.088				
1,2,3,7,8,9-HxCDF	ND	-----	0.110		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.099		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.110		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.120				
1,2,3,7,8,9-HxCDD	ND	-----	0.100				
Total HxCDD	ND	-----	0.110				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.069		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.089		Equivalence: 0.018 ng/Kg		
Total HpCDF	ND	-----	0.079		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.150				
Total HpCDD	ND	-----	0.150				
OCDF	ND	-----	0.230				
OCDD	ND	-----	0.360				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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P = PCDE Interference

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Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK124O		
Lab Sample ID	10265141016		
Filename	F140512A_15		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 12:25
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 22:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.11	0.089	IJ	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.10	-----	0.089	BJ	2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.130		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	-----	0.130		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.170		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.170		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	0.170		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.260		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.260		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.130		1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	-----	0.110		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.093				
1,2,3,7,8,9-HxCDF	ND	-----	0.130		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.120		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.130		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.160				
1,2,3,7,8,9-HxCDD	ND	-----	0.150				
Total HxCDD	ND	-----	0.140				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.075		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.086		Equivalence: 0.011 ng/Kg		
Total HpCDF	ND	-----	0.081		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.087				
Total HpCDD	ND	-----	0.087				
OCDF	ND	-----	0.190				
OCDD	ND	-----	0.340				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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B = Less than 10x higher than method blank level
I = Interference present

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK130L		
Lab Sample ID	10265141017		
Filename	F140512A_16		
Injected By	SMT		
Total Amount Extracted	20.8 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/27/2014 08:20
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/12/2014 23:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.16	0.140	IJ	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	0.140		2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	74
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	0.100		1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	-----	0.170		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.140		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	0.170		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.170		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	ND	-----	0.110		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.091		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	-----	0.110				
1,2,3,7,8,9-HxCDF	ND	-----	0.110		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.170		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.170				
1,2,3,7,8,9-HxCDD	ND	-----	0.170				
Total HxCDD	ND	-----	0.170				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.082		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.110		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.096		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.140				
Total HpCDD	ND	-----	0.140				
OCDF	ND	-----	0.300				
OCDD	ND	-----	0.480				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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I = Interference present

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK132L		
Lab Sample ID	10265141018		
Filename	F140512A_17		
Injected By	SMT		
Total Amount Extracted	20.6 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 08:38
ICAL ID	F131125	Received	04/29/2014 09:53
CCal Filename(s)	F140512A_03	Extracted	05/06/2014 22:00
Method Blank ID	BLANK-40418	Analyzed	05/13/2014 00:16

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.120		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	0.120		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	0.120		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	0.120		1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	0.120		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.130		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.130		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.160		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.160		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.090		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.078		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	0.082				
1,2,3,7,8,9-HxCDF	ND	-----	0.099		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.087		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.120		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	0.110				
1,2,3,7,8,9-HxCDD	ND	-----	0.097				
Total HxCDD	ND	-----	0.110				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.080		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.100		Equivalence: 0.0018 ng/Kg		
Total HpCDF	ND	-----	0.091		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.17	-----	0.140	J			
Total HpCDD	0.36	-----	0.140	BJ			
OCDF	ND	-----	0.240				
OCDD	-----	0.55	0.210	IJ			

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NC = Not Calculated

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J = Estimated value
B = Less than 10x higher than method blank level
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK134L		
Lab Sample ID	10265141019		
Filename	U140513A_08		
Injected By	CVS		
Total Amount Extracted	20.0 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 09:20
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 14:05

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.081		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.097	-----	0.081	BJ	2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.055		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.110	-----	0.055	BJ	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.036		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.026		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	0.031		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	-----	0.034		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.034		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.028		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.025		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.032				
1,2,3,7,8,9-HxCDF	ND	-----	0.036		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.030		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.034		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.038				
1,2,3,7,8,9-HxCDD	ND	-----	0.037				
Total HxCDD	ND	-----	0.036				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.025		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.047		Equivalence: 0.00045 ng/Kg		
Total HpCDF	ND	-----	0.036		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.042	0.038	IJ			
Total HpCDD	ND	-----	0.038				
OCDF	ND	-----	0.120				
OCDD	0.350	-----	0.160	J			

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EMPC = Estimated Maximum Possible Concentration
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B = Less than 10x higher than method blank level
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK135L		
Lab Sample ID	10265141020		
Filename	U140513A_09		
Injected By	CVS		
Total Amount Extracted	20.3 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 10:00
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 14:50

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.15	0.074	IJ	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.074		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.053		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	0.140	-----	0.053	BJ	1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	-----	0.037		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	0.029		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.033		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.040		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	ND	-----	0.040		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.023		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	-----	0.022		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	0.020				
1,2,3,7,8,9-HxCDF	ND	-----	0.028		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.023		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.056		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.059				
1,2,3,7,8,9-HxCDD	ND	-----	0.048				
Total HxCDD	ND	-----	0.054				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.021		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.030		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.026		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.088	-----	0.046	BJ			
Total HpCDD	0.088	-----	0.046	BJ			
OCDF	ND	-----	0.130				
OCDD	0.530	-----	0.170	J			

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK138L		
Lab Sample ID	10265141021		
Filename	U140513A_10		
Injected By	CVS		
Total Amount Extracted	20.5 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 11:32
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 15:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.190	-----	0.100	J	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.310	-----	0.100	BJ	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	0.052		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.052		1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.055		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.039		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	0.047		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.049		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.049		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.030		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.025		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	0.024				
1,2,3,7,8,9-HxCDF	ND	-----	0.032		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.028		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.026		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.032				
1,2,3,7,8,9-HxCDD	ND	-----	0.029				
Total HxCDD	ND	-----	0.029				
1,2,3,4,6,7,8-HpCDF	-----	0.034	0.028	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.040		Equivalence: 0.020 ng/Kg		
Total HpCDF	ND	-----	0.034		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.040				
Total HpCDD	0.084	-----	0.040	BJ			
OCDF	ND	-----	0.098				
OCDD	0.380	-----	0.120	J			

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK121C		
Lab Sample ID	10265141022		
Filename	U140513A_11		
Injected By	CVS		
Total Amount Extracted	20.0 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 10:35
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 16:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.150	0.069	IJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	-----	0.069		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.050		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	0.050		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.031		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.026		2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	0.029		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.029		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.029		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.029		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	-----	0.021		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.021				
1,2,3,7,8,9-HxCDF	ND	-----	0.028		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.025		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.025		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.029				
1,2,3,7,8,9-HxCDD	ND	-----	0.026				
Total HxCDD	0.046	-----	0.027	J			
1,2,3,4,6,7,8-HpCDF	-----	0.032	0.025	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.044		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.034		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.064	0.048	IJ			
Total HpCDD	ND	-----	0.048				
OCDF	ND	-----	0.073				
OCDD	0.210	-----	0.098	J			

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK122C		
Lab Sample ID	10265141023		
Filename	U140513A_12		
Injected By	CVS		
Total Amount Extracted	20.1 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 10:35
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_01	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 17:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.150	-----	0.047	J	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.150	-----	0.047	BJ	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.046		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	0.150	-----	0.046	BJ	1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	-----	0.028		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.024		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.026		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.030		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.030		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	-----	0.021		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.015		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.017				
1,2,3,7,8,9-HxCDF	ND	-----	0.020		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.018		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.025		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.026				
1,2,3,7,8,9-HxCDD	ND	-----	0.024				
Total HxCDD	0.039	-----	0.025	J			
1,2,3,4,6,7,8-HpCDF	0.040	-----	0.030	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.043		Equivalence: 0.016 ng/Kg		
Total HpCDF	0.040	-----	0.036	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.12	0.046	IJ			
Total HpCDD	ND	-----	0.046				
OCDF	ND	-----	0.061				
OCDD	-----	0.27	0.150	IJ			

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NC = Not Calculated

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK123C		
Lab Sample ID	10265141024		
Filename	U140513B_03		
Injected By	CVS		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 14:06
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 23:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.120	0.060	IJ	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.11	-----	0.060	BJ	2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.066		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	0.13	-----	0.066	BJ	1,2,3,7,8-PeCDD-13C	2.00	74
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	-----	0.050		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.035		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.043		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.031		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.031		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	-----	0.027		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.024		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.025				
1,2,3,7,8,9-HxCDF	ND	-----	0.038		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.029		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.042		2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.055				
1,2,3,7,8,9-HxCDD	ND	-----	0.043				
Total HxCDD	ND	-----	0.047				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.035		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.052		Equivalence: 0.012 ng/Kg		
Total HpCDF	ND	-----	0.044		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.067				
Total HpCDD	ND	-----	0.067				
OCDF	-----	0.096	0.079	IJ			
OCDD	-----	0.390	0.110	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
B = Less than 10x higher than method blank level
I = Interference present

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK124C		
Lab Sample ID	10265141025		
Filename	U140513B_04		
Injected By	CVS		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 15:20
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/13/2014 23:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.14	0.086	IJ	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	0.11	-----	0.086	BJ	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.066		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.066		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	0.050		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	-----	0.040		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.043		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	-----	0.043		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.041		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.029		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.033				
1,2,3,7,8,9-HxCDF	ND	-----	0.032		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.034		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.051		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	0.062				
1,2,3,7,8,9-HxCDD	ND	-----	0.059				
Total HxCDD	ND	-----	0.057				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.043		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.058		Equivalence: 0.014 ng/Kg		
Total HpCDF	ND	-----	0.051		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.084				
Total HpCDD	ND	-----	0.084				
OCDF	ND	-----	0.180				
OCDD	0.29	-----	0.190	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
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I = Interference present

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK125C		
Lab Sample ID	10265141026		
Filename	U140513B_05		
Injected By	CVS		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 15:30
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/14/2014 00:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.110		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	0.110		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.190		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.190		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	0.072		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.061		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.067		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	0.064		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	ND	-----	0.064		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.058		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.068		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.059				
1,2,3,7,8,9-HxCDF	ND	-----	0.074		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.065		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.087		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.086				
1,2,3,7,8,9-HxCDD	ND	-----	0.084				
Total HxCDD	ND	-----	0.086				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.053		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.077		Equivalence: 0.000039 ng/Kg		
Total HpCDF	ND	-----	0.065		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.110				
Total HpCDD	ND	-----	0.110				
OCDF	ND	-----	0.140				
OCDD	-----	0.39	0.180	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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I = Interference present

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK126C		
Lab Sample ID	10265141027		
Filename	U140513B_06		
Injected By	CVS		
Total Amount Extracted	20.5 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 15:47
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/14/2014 01:17

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.13	-----	0.087	J	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.13	-----	0.087	BJ	2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.120		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	0.12	-----	0.120	BJ	1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	0.088		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.072		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.080		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.048		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.048		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.042		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	0.036		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.037				
1,2,3,7,8,9-HxCDF	ND	-----	0.046		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.045		2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.051				
1,2,3,7,8,9-HxCDD	ND	-----	0.048				
Total HxCDD	ND	-----	0.048				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.032		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.054		Equivalence: 0.013 ng/Kg		
Total HpCDF	ND	-----	0.043		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.087				
Total HpCDD	ND	-----	0.087				
OCDF	ND	-----	0.200				
OCDD	ND	-----	0.250				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK127C		
Lab Sample ID	10265141028		
Filename	U140513B_07		
Injected By	CVS		
Total Amount Extracted	20.7 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 16:10
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/14/2014 02:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.110		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	0.17	-----	0.110	BJ	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.120		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	0.18	-----	0.120	BJ	1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.099		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.085		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.092		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.052		1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	ND	-----	0.052		1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.048		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.042		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.055				
1,2,3,7,8,9-HxCDF	ND	-----	0.063		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.052		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.081		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	0.094				
1,2,3,7,8,9-HxCDD	ND	-----	0.088				
Total HxCDD	ND	-----	0.088				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.060		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.072		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.066		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.089				
Total HpCDD	ND	-----	0.089				
OCDF	ND	-----	0.160				
OCDD	ND	-----	0.390				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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J = Estimated value
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK128C		
Lab Sample ID	10265141029		
Filename	U140513B_08		
Injected By	CVS		
Total Amount Extracted	20.6 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/28/2014 16:43
ICAL ID	U140322	Received	04/29/2014 09:53
CCal Filename(s)	U140513A_17	Extracted	05/07/2014 23:15
Method Blank ID	BLANK-40456	Analyzed	05/14/2014 02:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.15	-----	0.076	J	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	0.15	-----	0.076	BJ	2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.087		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	-----	0.087		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	0.110		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.085		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.097		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	0.045		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.045		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	-----	0.046		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	0.045		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	0.046				
1,2,3,7,8,9-HxCDF	ND	-----	0.049		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.047		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.067		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	0.071				
1,2,3,7,8,9-HxCDD	ND	-----	0.064				
Total HxCDD	ND	-----	0.067				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.034		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.062		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.048		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.10	-----	0.082	BJ			
Total HpCDD	0.10	-----	0.082	BJ			
OCDF	ND	-----	0.240				
OCDD	0.46	-----	0.270	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
B = Less than 10x higher than method blank level

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Appendix C

QC and Calibration Results Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-40418	Matrix	Tissue
Filename	U140512A_06	Dilution	NA
Total Amount Extracted	21.6 g	Extracted	05/06/2014 22:00
ICAL ID	U140322	Analyzed	05/12/2014 14:55
CCal Filename(s)	U140512A_01	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.080	0.060	IJ	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	0.064	-----	0.060	J	2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.074		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.074		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.032		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.029		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.031		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.037		1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	-----	0.037		1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	-----	0.019		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.020		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.017				
1,2,3,7,8,9-HxCDF	ND	-----	0.020		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.019		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.040		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	0.038				
1,2,3,7,8,9-HxCDD	ND	-----	0.034				
Total HxCDD	ND	-----	0.037				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.039		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.066		Equivalence: 0.0080 ng/Kg		
Total HpCDF	ND	-----	0.053		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.048				
Total HpCDD	0.089	-----	0.048	J			
OCDF	ND	-----	0.110				
OCDD	ND	-----	0.160				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

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Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-40456	Matrix	Tissue
Filename	U140513A_05	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	05/07/2014 23:15
ICAL ID	U140322	Analyzed	05/13/2014 11:51
CCal Filename(s)	U140513A_01	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.14	0.048	IJ	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.150	-----	0.048	J	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.052		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	0.150	-----	0.052	J	1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.032		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.032		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	ND	-----	0.032		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.044		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.044		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	ND	-----	0.026		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	-----	0.023		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.023				
1,2,3,7,8,9-HxCDF	ND	-----	0.027		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.024		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.044		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.047				
1,2,3,7,8,9-HxCDD	ND	-----	0.048				
Total HxCDD	ND	-----	0.046				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.032		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.048		Equivalence: 0.014 ng/Kg		
Total HpCDF	ND	-----	0.040		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.035	-----	0.034	J			
Total HpCDD	0.035	-----	0.034	J			
OCDF	ND	-----	0.054				
OCDD	-----	0.12	0.120	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-40419		
Filename	U140512A_02	Matrix	Tissue
Total Amount Extracted	21.6 g	Dilution	NA
ICAL ID	U140322	Extracted	05/06/2014 22:00
CCal Filename	U140512A_01	Analyzed	05/12/2014 11:57
Method Blank ID	BLANK-40418	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10	7.5	15.8	101
2,3,7,8-TCDD	10	9.0	6.7	15.8	90
1,2,3,7,8-PeCDF	50	53	40.0	67.0	106
2,3,4,7,8-PeCDF	50	51	34.0	80.0	102
1,2,3,7,8-PeCDD	50	44	35.0	71.0	88
1,2,3,4,7,8-HxCDF	50	52	36.0	67.0	103
1,2,3,6,7,8-HxCDF	50	49	42.0	65.0	99
2,3,4,6,7,8-HxCDF	50	48	35.0	78.0	97
1,2,3,7,8,9-HxCDF	50	52	39.0	65.0	104
1,2,3,4,7,8-HxCDD	50	54	35.0	82.0	107
1,2,3,6,7,8-HxCDD	50	57	38.0	67.0	113
1,2,3,7,8,9-HxCDD	50	57	32.0	81.0	113
1,2,3,4,6,7,8-HpCDF	50	53	41.0	61.0	106
1,2,3,4,7,8,9-HpCDF	50	49	39.0	69.0	98
1,2,3,4,6,7,8-HpCDD	50	48	35.0	70.0	96
OCDF	100	98	63.0	170.0	98
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	7.8	3.1	19.1	78
2,3,7,8-TCDF-13C	100	72	22.0	152.0	72
2,3,7,8-TCDD-13C	100	81	20.0	175.0	81
1,2,3,7,8-PeCDF-13C	100	77	21.0	192.0	77
2,3,4,7,8-PeCDF-13C	100	73	13.0	328.0	73
1,2,3,7,8-PeCDD-13C	100	86	21.0	227.0	86
1,2,3,4,7,8-HxCDF-13C	100	67	19.0	202.0	67
1,2,3,6,7,8-HxCDF-13C	100	73	21.0	159.0	73
2,3,4,6,7,8-HxCDF-13C	100	70	22.0	176.0	70
1,2,3,7,8,9-HxCDF-13C	100	68	17.0	205.0	68
1,2,3,4,7,8-HxCDD-13C	100	70	21.0	193.0	70
1,2,3,6,7,8-HxCDD-13C	100	62	25.0	163.0	62
1,2,3,4,6,7,8-HpCDF-13C	100	72	21.0	158.0	72
1,2,3,4,7,8,9-HpCDF-13C	100	75	20.0	186.0	75
1,2,3,4,6,7,8-HpCDD-13C	100	87	26.0	166.0	87
OCDD-13C	200	140	26.0	397.0	70

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-40457		
Filename	U140513A_15	Matrix	Tissue
Total Amount Extracted	20.5 g	Dilution	NA
ICAL ID	U140322	Extracted	05/07/2014 23:15
CCal Filename	U140513A_17	Analyzed	05/13/2014 19:18
Method Blank ID	BLANK-40456	Injected By	CVS

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	112
2,3,7,8-TCDD	10	9.7	6.7	15.8	97
1,2,3,7,8-PeCDF	50	52	40.0	67.0	104
2,3,4,7,8-PeCDF	50	51	34.0	80.0	101
1,2,3,7,8-PeCDD	50	46	35.0	71.0	92
1,2,3,4,7,8-HxCDF	50	52	36.0	67.0	104
1,2,3,6,7,8-HxCDF	50	51	42.0	65.0	102
2,3,4,6,7,8-HxCDF	50	50	35.0	78.0	100
1,2,3,7,8,9-HxCDF	50	51	39.0	65.0	103
1,2,3,4,7,8-HxCDD	50	54	35.0	82.0	108
1,2,3,6,7,8-HxCDD	50	56	38.0	67.0	111
1,2,3,7,8,9-HxCDD	50	55	32.0	81.0	110
1,2,3,4,6,7,8-HpCDF	50	53	41.0	61.0	107
1,2,3,4,7,8,9-HpCDF	50	50	39.0	69.0	100
1,2,3,4,6,7,8-HpCDD	50	51	35.0	70.0	103
OCDF	100	110	63.0	170.0	106
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	8.5	3.1	19.1	85
2,3,7,8-TCDF-13C	100	78	22.0	152.0	78
2,3,7,8-TCDD-13C	100	84	20.0	175.0	84
1,2,3,7,8-PeCDF-13C	100	83	21.0	192.0	83
2,3,4,7,8-PeCDF-13C	100	80	13.0	328.0	80
1,2,3,7,8-PeCDD-13C	100	86	21.0	227.0	86
1,2,3,4,7,8-HxCDF-13C	100	84	19.0	202.0	84
1,2,3,6,7,8-HxCDF-13C	100	86	21.0	159.0	86
2,3,4,6,7,8-HxCDF-13C	100	88	22.0	176.0	88
1,2,3,7,8,9-HxCDF-13C	100	82	17.0	205.0	82
1,2,3,4,7,8-HxCDD-13C	100	82	21.0	193.0	82
1,2,3,6,7,8-HxCDD-13C	100	78	25.0	163.0	78
1,2,3,4,6,7,8-HpCDF-13C	100	77	21.0	158.0	77
1,2,3,4,7,8,9-HpCDF-13C	100	82	20.0	186.0	82
1,2,3,4,6,7,8-HpCDD-13C	100	88	26.0	166.0	88
OCDD-13C	200	160	26.0	397.0	78

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-40458		
Filename	U140513A_16	Matrix	Tissue
Total Amount Extracted	20.0 g	Dilution	NA
ICAL ID	U140322	Extracted	05/07/2014 23:15
CCal Filename	U140513A_17	Analyzed	05/13/2014 20:03
Method Blank ID	BLANK-40456	Injected By	CVS

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	110
2,3,7,8-TCDD	10	9.6	6.7	15.8	96
1,2,3,7,8-PeCDF	50	53	40.0	67.0	106
2,3,4,7,8-PeCDF	50	51	34.0	80.0	103
1,2,3,7,8-PeCDD	50	46	35.0	71.0	92
1,2,3,4,7,8-HxCDF	50	52	36.0	67.0	105
1,2,3,6,7,8-HxCDF	50	51	42.0	65.0	101
2,3,4,6,7,8-HxCDF	50	49	35.0	78.0	98
1,2,3,7,8,9-HxCDF	50	50	39.0	65.0	100
1,2,3,4,7,8-HxCDD	50	55	35.0	82.0	109
1,2,3,6,7,8-HxCDD	50	58	38.0	67.0	117
1,2,3,7,8,9-HxCDD	50	56	32.0	81.0	113
1,2,3,4,6,7,8-HpCDF	50	52	41.0	61.0	104
1,2,3,4,7,8,9-HpCDF	50	49	39.0	69.0	99
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	101
OCDF	100	100	63.0	170.0	102
OCDD	100	110	78.0	144.0	111
2,3,7,8-TCDD-37Cl4	10	9.3	3.1	19.1	93
2,3,7,8-TCDF-13C	100	82	22.0	152.0	82
2,3,7,8-TCDD-13C	100	88	20.0	175.0	88
1,2,3,7,8-PeCDF-13C	100	84	21.0	192.0	84
2,3,4,7,8-PeCDF-13C	100	82	13.0	328.0	82
1,2,3,7,8-PeCDD-13C	100	90	21.0	227.0	90
1,2,3,4,7,8-HxCDF-13C	100	83	19.0	202.0	83
1,2,3,6,7,8-HxCDF-13C	100	86	21.0	159.0	86
2,3,4,6,7,8-HxCDF-13C	100	84	22.0	176.0	84
1,2,3,7,8,9-HxCDF-13C	100	82	17.0	205.0	82
1,2,3,4,7,8-HxCDD-13C	100	79	21.0	193.0	79
1,2,3,6,7,8-HxCDD-13C	100	68	25.0	163.0	68
1,2,3,4,6,7,8-HpCDF-13C	100	76	21.0	158.0	76
1,2,3,4,7,8,9-HpCDF-13C	100	78	20.0	186.0	78
1,2,3,4,6,7,8-HpCDD-13C	100	82	26.0	166.0	82
OCDD-13C	200	150	26.0	397.0	73

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client PASI Wisconsin

Spike 1 ID LCS-40457
Spike 1 Filename U140513A_15

Spike 2 ID LCSD-40458
Spike 2 Filename U140513A_16

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	112	110	1.8
2,3,7,8-TCDD	97	96	1.0
1,2,3,7,8-PeCDF	104	106	1.9
2,3,4,7,8-PeCDF	101	103	2.0
1,2,3,7,8-PeCDD	92	92	0.0
1,2,3,4,7,8-HxCDF	104	105	1.0
1,2,3,6,7,8-HxCDF	102	101	1.0
2,3,4,6,7,8-HxCDF	100	98	2.0
1,2,3,7,8,9-HxCDF	103	100	3.0
1,2,3,4,7,8-HxCDD	108	109	0.9
1,2,3,6,7,8-HxCDD	111	117	5.3
1,2,3,7,8,9-HxCDD	110	113	2.7
1,2,3,4,6,7,8-HpCDF	107	104	2.8
1,2,3,4,7,8,9-HpCDF	100	99	1.0
1,2,3,4,6,7,8-HpCDD	103	101	2.0
OCDF	106	102	3.8
OCDD	113	111	1.8

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK109O-MS		
Lab Sample ID	10265141001-MS2		
Filename	U140512A_03	Matrix	Octopus
Total Amount Extracted	20.2 g	Dilution	NA
ICAL ID	U140322	Extracted	05/06/2014 22:00
CCal Filename(s)	U140512A_01	Analyzed	05/12/2014 12:41
Method Blank ID	BLANK-40418	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	116	2,3,7,8-TCDF-13C	2.00	76
Total TCDF				2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	0.20	0.20	98	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	1.00	1.11	111	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	1.00	1.08	108	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	1.00	0.96	96	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	1.00	1.13	113	1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	1.00	1.07	107	OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.08	108	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.15	115	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	1.00	1.21	121			
1,2,3,7,8,9-HxCDD	1.00	1.21	121			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113			
1,2,3,4,7,8,9-HpCDF	1.00	1.02	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.04	104			
Total HpCDD						
OCDF	2.00	2.06	103			
OCDD	2.00	2.34	117			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK109O-MSD		
Lab Sample ID	10265141001-MSD2		
Filename	U140512A_04	Matrix	Octopus
Total Amount Extracted	20.3 g	Dilution	NA
ICAL ID	U140322	Extracted	05/06/2014 22:00
CCal Filename(s)	U140512A_01	Analyzed	05/12/2014 13:26
Method Blank ID	BLANK-40418	Injected By	SMT

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	2.00	74
Total TCDF				2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	0.20	0.20	98	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	1.00	1.07	107	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	1.00	1.08	108	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	1.00	0.93	93	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	1.00	1.05	105	1,2,3,4,6,7,8-HpCDD-13C	2.00	98
1,2,3,6,7,8-HxCDF	1.00	1.02	102	OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	1.00	1.01	101			
1,2,3,7,8,9-HxCDF	1.00	1.06	106	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.08	108	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	1.00	1.21	121			
1,2,3,7,8,9-HxCDD	1.00	1.07	107			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.11	111			
1,2,3,4,7,8,9-HpCDF	1.00	1.03	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.03	103			
Total HpCDD						
OCDF	2.00	1.97	99			
OCDD	2.00	2.28	114			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK120O-MS		
Lab Sample ID	10265141012-MS2		
Filename	F140512A_04	Matrix	Octopus
Total Amount Extracted	20.2 g	Dilution	NA
ICAL ID	F131125	Extracted	05/06/2014 22:00
CCal Filename(s)	F140512A_03	Analyzed	05/12/2014 14:35
Method Blank ID	BLANK-40418	Injected By	SMT

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.00	91
Total TCDF				2,3,7,8-TCDD-13C	2.00	99
				1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	0.20	0.17	84	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	1.00	1.13	113	1,2,3,6,7,8-HxCDF-13C	2.00	103
2,3,4,7,8-PeCDF	1.00	1.11	111	2,3,4,6,7,8-HxCDF-13C	2.00	102
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	95
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	1.00	0.93	93	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	85
				1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	1.00	1.15	115	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	1.00	1.05	105	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	1.00	1.03	103			
1,2,3,7,8,9-HxCDF	1.00	1.09	109	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.15	115	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	1.00	1.23	123			
1,2,3,7,8,9-HxCDD	1.00	1.20	120			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.02	102			
1,2,3,4,7,8,9-HpCDF	1.00	0.93	93			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.98	98			
Total HpCDD						
OCDF	2.00	2.14	107			
OCDD	2.00	2.15	108			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK120O-MSD		
Lab Sample ID	10265141012-MSD2		
Filename	F140512A_05	Matrix	Octopus
Total Amount Extracted	20.8 g	Dilution	NA
ICAL ID	F131125	Extracted	05/06/2014 22:00
CCal Filename(s)	F140512A_03	Analyzed	05/12/2014 15:18
Method Blank ID	BLANK-40418	Injected By	SMT

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.24	118	2,3,7,8-TCDF-13C	2.00	75
Total TCDF				2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	0.20	0.18	88	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	77
				1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	1.00	1.24	124	1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	1.00	1.22	122	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	1.00	1.01	101	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	1.00	1.21	121	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	1.00	1.16	116	OCDD-13C	4.00	52
2,3,4,6,7,8-HxCDF	1.00	1.13	113			
1,2,3,7,8,9-HxCDF	1.00	1.21	121	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.25	125	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	1.00	1.34	134			
1,2,3,7,8,9-HxCDD	1.00	1.25	125			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.16	116			
1,2,3,4,7,8,9-HpCDF	1.00	1.01	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.02	102			
Total HpCDD						
OCDF	2.00	2.31	115			
OCDD	2.00	2.24	112			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Tel: 612-607-1700
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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK109O			Dry Weights	
Lab Sample ID	10265141001	Sample Filename	U140512A_09	Sample Amount	NA
MS ID	10265141001-MS2	MS Filename	U140512A_03	MS Amount	NA
MSD ID	10265141001-MSD2	MSD Filename	U140512A_04	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.23	0.22	4.7	114	109	4.8
2,3,7,8-TCDD	0.000	0.20	0.20	0.20	0.0	98	98	0.0
1,2,3,7,8-PeCDF	0.000	1.00	1.11	1.07	3.8	111	107	3.8
2,3,4,7,8-PeCDF	0.000	1.00	1.08	1.08	0.7	108	108	0.7
1,2,3,7,8-PeCDD	0.000	1.00	0.96	0.93	3.8	96	93	3.8
1,2,3,4,7,8-HxCDF	0.000	1.00	1.13	1.05	7.4	113	105	7.4
1,2,3,6,7,8-HxCDF	0.000	1.00	1.07	1.02	4.7	107	102	4.7
2,3,4,6,7,8-HxCDF	0.000	1.00	1.06	1.01	4.7	106	101	4.7
1,2,3,7,8,9-HxCDF	0.000	1.00	1.08	1.06	1.8	108	106	1.8
1,2,3,4,7,8-HxCDD	0.000	1.00	1.15	1.08	6.8	115	108	6.8
1,2,3,6,7,8-HxCDD	0.000	1.00	1.21	1.21	0.3	121	121	0.3
1,2,3,7,8,9-HxCDD	0.000	1.00	1.21	1.07	12.2	121	107	12.2
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.13	1.11	2.1	113	111	2.1
1,2,3,4,7,8,9-HpCDF	0.000	1.00	1.02	1.03	0.7	102	103	0.7
1,2,3,4,6,7,8-HpCDD	0.000	1.00	1.04	1.03	0.3	104	103	0.3
OCDF	0.000	2.00	2.06	1.97	4.6	103	99	4.6
OCDD	0.000	2.00	2.34	2.28	2.6	117	114	2.6

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK120O			Dry Weights	
Lab Sample ID	10265141012	Sample Filename	F140512A_11	Sample Amount	NA
MS ID	10265141012-MS2	MS Filename	F140512A_04	MS Amount	NA
MSD ID	10265141012-MSD2	MSD Filename	F140512A_05	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.22	0.24	8.5	109	118	8.5
2,3,7,8-TCDD	0.000	0.20	0.17	0.18	5.6	84	88	5.6
1,2,3,7,8-PeCDF	0.000	1.00	1.13	1.24	9.6	113	124	9.6
2,3,4,7,8-PeCDF	0.000	1.00	1.11	1.22	9.2	111	122	9.2
1,2,3,7,8-PeCDD	0.000	1.00	0.93	1.01	7.6	93	101	7.6
1,2,3,4,7,8-HxCDF	0.000	1.00	1.15	1.21	5.4	115	121	5.4
1,2,3,6,7,8-HxCDF	0.000	1.00	1.05	1.16	9.8	105	116	9.8
2,3,4,6,7,8-HxCDF	0.000	1.00	1.03	1.13	9.1	103	113	9.1
1,2,3,7,8,9-HxCDF	0.000	1.00	1.09	1.21	10.6	109	121	10.6
1,2,3,4,7,8-HxCDD	0.000	1.00	1.15	1.25	8.5	115	125	8.5
1,2,3,6,7,8-HxCDD	0.000	1.00	1.23	1.34	8.4	123	134	8.4
1,2,3,7,8,9-HxCDD	0.000	1.00	1.20	1.25	4.1	120	125	4.1
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.02	1.16	13.3	101	116	13.3
1,2,3,4,7,8,9-HpCDF	0.000	1.00	0.93	1.01	8.9	93	101	8.9
1,2,3,4,6,7,8-HpCDD	0.000	1.00	0.98	1.02	4.3	98	102	4.3
OCDF	0.000	2.00	2.14	2.31	7.6	107	115	7.6
OCDD	0.000	2.00	2.15	2.24	3.9	108	112	3.9

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

Method 8290/1613
Initial Calibration (ICAL) - Response Factor Summary

ICAL ID	**F131125**	Data Files:		Time	Injected
Calibration Date	11/25/2013	CS-1	F131125C_03	21:51	BAL
Instrument	10MSHR05 (F)	CS-2	F131125C_02	21:03	BAL
Column Phase	DB-5MS 0.25mm	CS-3	F131125C_01	20:17	BAL
Column ID No.	USD331524H	CS-4	F131125C_06	00:15	BAL
		CS-5	F131125C_05	23:27	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.7964	0.7976	0.8352	0.8426	0.8567	0.8257	3.31
2,3,7,8-TCDD	0.9853	0.9118	0.9646	0.9750	0.9902	0.9654	3.27
1,2,3,7,8-PeCDF	0.8376	0.8739	0.9110	0.9137	0.9232	0.8919	4.00
2,3,4,7,8-PeCDF	0.9003	0.9061	0.9023	0.9345	0.9522	0.9191	2.52
1,2,3,7,8-PeCDD	0.8635	0.8825	0.8891	0.9021	0.9116	0.8897	2.08
1,2,3,4,7,8-HxCDF	1.0052	1.0752	1.0709	1.0809	1.1019	1.0668	3.42
1,2,3,6,7,8-HxCDF	1.0055	1.0407	1.0778	1.0912	1.0685	1.0567	3.23
2,3,4,6,7,8-HxCDF	0.9953	1.1290	1.1388	1.1619	1.1665	1.1183	6.31
1,2,3,7,8,9-HxCDF	0.8862	0.9735	0.9973	1.0105	1.0400	0.9815	5.95
1,2,3,4,7,8-HxCDD	0.8909	0.9049	0.9225	0.9427	0.9414	0.9205	2.46
1,2,3,6,7,8-HxCDD	0.7987	0.8666	0.8573	0.8456	0.8537	0.8444	3.15
1,2,3,7,8,9-HxCDD	0.8601	0.8897	0.9252	0.8981	0.9281	0.9002	3.11
1,2,3,4,6,7,8-HpCDF	1.2243	1.2802	1.3673	1.3708	1.3140	1.3113	4.70
1,2,3,4,7,8,9-HpCDF	1.2633	1.3056	1.3463	1.4007	1.3593	1.3350	3.93
1,2,3,4,6,7,8-HpCDD	1.0329	1.0430	1.0546	1.1012	1.0304	1.0524	2.75
OCDF	0.9249	1.0193	1.0155	1.0366	1.0998	1.0192	6.15
OCDD	0.9340	0.9557	0.9650	0.9904	1.0075	0.9705	2.98
Total PeCDF	0.8690	0.8900	0.9067	0.9241	0.9377	0.9055	3.01
Total HxCDF	0.9730	1.0546	1.0712	1.0861	1.0942	1.0558	4.61
Total HxCDD	0.8499	0.8871	0.9017	0.8954	0.9077	0.8884	2.57
Total HpCDF	1.2438	1.2929	1.3568	1.3857	1.3366	1.3232	4.22
2,3,7,8-TCDF-13C	1.3605	1.3154	1.3132	1.3051	1.3372	1.3263	1.70
2,3,7,8-TCDD-13C	0.9529	0.9620	0.9776	0.9577	0.9896	0.9680	1.57
2,3,7,8-TCDD-37Cl4	0.9265	1.0252	1.0331	1.0497	1.0947	1.0258	6.02
1,2,3,7,8-PeCDF-13C	1.0690	1.0598	1.0606	1.0565	1.1126	1.0717	2.17
2,3,4,7,8-PeCDF-13C	1.0208	1.0282	1.0513	1.0293	1.0794	1.0418	2.29
1,2,3,7,8-PeCDD-13C	0.7472	0.7657	0.7854	0.7676	0.8005	0.7733	2.63
1,2,3,4,7,8-HxCDF-13C	1.0496	1.0782	1.0901	1.0873	1.0753	1.0761	1.49
1,2,3,6,7,8-HxCDF-13C	1.1197	1.1889	1.1634	1.1795	1.1871	1.1677	2.45
2,3,4,6,7,8-HxCDF-13C	1.0948	1.0545	1.0478	1.0626	1.0427	1.0604	1.94
1,2,3,7,8,9-HxCDF-13C	0.9518	1.0240	1.0472	1.0301	1.0565	1.0219	4.04
1,2,3,4,7,8-HxCDD-13C	0.9266	0.9837	0.9702	0.9522	0.9532	0.9572	2.25
1,2,3,6,7,8-HxCDD-13C	1.0044	1.0205	1.0386	1.0883	1.0541	1.0412	3.11
1,2,3,4,6,7,8-HpCDF-13C	1.0502	1.0959	1.0807	1.0869	1.1345	1.0896	2.79
1,2,3,4,7,8,9-HpCDF-13C	0.8042	0.8690	0.8673	0.8042	0.8794	0.8448	4.42
1,2,3,4,6,7,8-HpCDD-13C	0.8313	0.8944	0.9315	0.8662	0.8837	0.8814	4.18
OCDD-13C	0.7535	0.7843	0.8194	0.8056	0.8438	0.8013	4.29

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Method 8290/1613
Initial Calibration (ICAL) - Isotope Ratio Summary

ICAL ID	**F131125**	Data Files:		Time	Injected
Calibration Date	11/25/2013	CS-1	F131125C_03	21:51	BAL
Instrument	10MSHR05 (F)	CS-2	F131125C_02	21:03	BAL
Column Phase	DB-5MS 0.25mm	CS-3	F131125C_01	20:17	BAL
Column ID No.	USD331524H	CS-4	F131125C_06	00:15	BAL
		CS-5	F131125C_05	23:27	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.68	0.77	0.78	0.75	0.77	0.65 - 0.89
2,3,7,8-TCDD	0.69	0.73	0.74	0.75	0.75	0.65 - 0.89
1,2,3,7,8-PeCDF	1.64	1.59	1.56	1.55	1.58	1.32 - 1.78
2,3,4,7,8-PeCDF	1.63	1.60	1.54	1.54	1.57	1.32 - 1.78
1,2,3,7,8-PeCDD	0.57	0.60	0.62	0.60	0.61	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.18	1.23	1.23	1.25	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.27	1.26	1.25	1.28	1.22	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.25	1.33	1.24	1.29	1.22	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.23	1.24	1.30	1.26	1.24	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.23	1.26	1.20	1.25	1.22	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.25	1.22	1.19	1.23	1.24	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.25	1.25	1.25	1.24	1.23	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	0.95	1.06	1.05	1.03	1.01	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	0.92	1.04	1.03	0.99	1.04	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.01	1.05	1.03	1.06	1.06	0.88 - 1.20
OCDF	0.83	0.88	0.90	0.91	0.89	0.76 - 1.02
OCDD	0.88	0.87	0.88	0.89	0.89	0.76 - 1.02
1,2,3,4-TCDD-13C	0.80	0.79	0.80	0.81	0.80	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.23	1.26	1.22	1.25	1.23	1.05 - 1.43
2,3,7,8-TCDF-13C	0.76	0.76	0.78	0.77	0.77	0.65 - 0.89
2,3,7,8-TCDD-13C	0.80	0.80	0.79	0.79	0.80	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.56	1.56	1.57	1.54	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.55	1.56	1.55	1.58	1.56	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.53	1.59	1.57	1.55	1.55	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.51	0.51	0.52	0.51	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.53	0.51	0.53	0.53	0.53	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.52	0.52	0.52	0.53	0.51	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.52	0.53	0.52	0.52	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.27	1.25	1.25	1.28	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.24	1.23	1.19	1.25	1.24	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.47	0.45	0.45	0.46	0.46	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.46	0.44	0.45	0.46	0.44	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.08	1.07	1.04	1.06	1.05	0.88 - 1.20
OCDD-13C	0.87	0.91	0.89	0.87	0.92	0.76 - 1.02

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Method 8290/1613
Initial Calibration (ICAL) - Response Factor Summary

ICAL ID	**U140322**	Data Files:		Time	Injected
Calibration Date	03/22/2014	CS-1	U140322B_06	16:50	BAL
Instrument	10MSHR06 (U)	CS-2	U140322B_05	16:05	BAL
Column Phase	DB-5MS 0.25mm	CS-3	U140322B_04	15:20	BAL
Column ID No.	USD397111H	CS-4	U140322B_08	18:19	BAL
		CS-5	U140322B_07	17:34	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.8480	0.8786	0.8679	0.8691	0.8644	0.8656	1.29
2,3,7,8-TCDD	1.0849	1.0855	1.0602	1.0205	1.0194	1.0541	3.11
1,2,3,7,8-PeCDF	0.8983	0.8784	0.8636	0.8815	0.8839	0.8811	1.41
2,3,4,7,8-PeCDF	0.8967	0.9056	0.8643	0.8903	0.9060	0.8926	1.92
1,2,3,7,8-PeCDD	0.9921	0.9802	0.9519	0.9603	0.9662	0.9701	1.65
1,2,3,4,7,8-HxCDF	1.1116	1.0620	1.0257	1.0238	1.0498	1.0546	3.39
1,2,3,6,7,8-HxCDF	1.0178	1.0188	0.9992	1.0178	1.0187	1.0145	0.84
2,3,4,6,7,8-HxCDF	1.0255	1.0612	1.0802	1.1130	1.0881	1.0736	3.05
1,2,3,7,8,9-HxCDF	0.9817	0.9489	0.9619	0.9489	0.9596	0.9602	1.40
1,2,3,4,7,8-HxCDD	0.9920	1.0122	0.9963	0.9567	0.9921	0.9898	2.05
1,2,3,6,7,8-HxCDD	0.9709	0.9157	0.8644	0.9136	0.8815	0.9092	4.48
1,2,3,7,8,9-HxCDD	0.9936	0.9319	0.9485	0.9409	0.9406	0.9511	2.57
1,2,3,4,6,7,8-HpCDF	1.3647	1.3296	1.3221	1.3414	1.3112	1.3338	1.54
1,2,3,4,7,8,9-HpCDF	1.3714	1.3358	1.3156	1.3142	1.3245	1.3323	1.77
1,2,3,4,6,7,8-HpCDD	1.0365	1.0591	1.0444	1.0516	1.0416	1.0466	0.85
OCDF	1.0775	1.0729	1.0540	1.1515	1.1794	1.1071	4.96
OCDD	1.0224	0.9925	0.9784	0.9964	1.0005	0.9980	1.60
Total PeCDF	0.8975	0.8920	0.8639	0.8859	0.8950	0.8869	1.52
Total HxCDF	1.0341	1.0227	1.0167	1.0259	1.0291	1.0257	0.64
Total HxCDD	0.9855	0.9533	0.9364	0.9371	0.9380	0.9501	2.21
Total HpCDF	1.3681	1.3327	1.3188	1.3278	1.3179	1.3330	1.54
2,3,7,8-TCDF-13C	1.4769	1.4709	1.4843	1.4501	1.4573	1.4679	0.96
2,3,7,8-TCDD-13C	0.9923	1.0025	1.0076	0.9920	1.0063	1.0001	0.75
2,3,7,8-TCDD-37Cl4	1.1204	1.1445	1.1364	1.0959	1.1259	1.1246	1.65
1,2,3,7,8-PeCDF-13C	1.1019	1.0813	1.1160	1.0859	1.1350	1.1040	2.00
2,3,4,7,8-PeCDF-13C	1.0784	1.0921	1.1262	1.1003	1.1436	1.1081	2.38
1,2,3,7,8-PeCDD-13C	0.7390	0.7410	0.7606	0.7384	0.7905	0.7539	2.97
1,2,3,4,7,8-HxCDF-13C	1.0732	1.0620	1.0839	1.1148	1.0703	1.0808	1.90
1,2,3,6,7,8-HxCDF-13C	1.2422	1.2286	1.2406	1.2843	1.2419	1.2475	1.71
2,3,4,6,7,8-HxCDF-13C	1.1844	1.1099	1.0924	1.1311	1.0920	1.1220	3.42
1,2,3,7,8,9-HxCDF-13C	0.9719	1.0212	1.0003	1.0538	1.0608	1.0216	3.63
1,2,3,4,7,8-HxCDD-13C	0.8844	0.9057	0.9303	0.9206	0.9191	0.9120	1.95
1,2,3,6,7,8-HxCDD-13C	1.0484	1.0892	1.0740	1.1266	1.0902	1.0857	2.62
1,2,3,4,6,7,8-HpCDF-13C	0.9849	1.0216	1.0232	1.0286	1.0156	1.0148	1.71
1,2,3,4,7,8,9-HpCDF-13C	0.7065	0.7502	0.7301	0.7511	0.7759	0.7427	3.49
1,2,3,4,6,7,8-HpCDD-13C	0.7307	0.7887	0.7785	0.7625	0.7803	0.7681	2.99
OCDD-13C	0.5101	0.5848	0.5659	0.5893	0.6360	0.5772	7.89

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Method 8290/1613
Initial Calibration (ICAL) - Isotope Ratio Summary

ICAL ID	**U140322**	Data Files:		Time	Injected
Calibration Date	03/22/2014	CS-1	U140322B_06	16:50	BAL
Instrument	10MSHR06 (U)	CS-2	U140322B_05	16:05	BAL
Column Phase	DB-5MS 0.25mm	CS-3	U140322B_04	15:20	BAL
Column ID No.	USD397111H	CS-4	U140322B_08	18:19	BAL
		CS-5	U140322B_07	17:34	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.70	0.73	0.77	0.75	0.77	0.65 - 0.89
2,3,7,8-TCDD	0.68	0.79	0.79	0.76	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF	1.61	1.49	1.53	1.53	1.55	1.32 - 1.78
2,3,4,7,8-PeCDF	1.55	1.50	1.53	1.53	1.52	1.32 - 1.78
1,2,3,7,8-PeCDD	0.59	0.62	0.63	0.61	0.62	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.24	1.24	1.20	1.23	1.26	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.18	1.22	1.25	1.25	1.21	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.20	1.26	1.26	1.21	1.23	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.24	1.20	1.21	1.23	1.25	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.25	1.24	1.20	1.24	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.26	1.25	1.25	1.25	1.22	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.26	1.26	1.21	1.25	1.22	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	0.99	1.06	1.04	1.05	1.03	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	0.98	1.03	1.04	1.06	1.05	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.02	1.01	1.06	1.06	1.05	0.88 - 1.20
OCDF	0.83	0.86	0.90	0.92	0.90	0.76 - 1.02
OCDD	0.88	0.85	0.89	0.89	0.89	0.76 - 1.02
1,2,3,4-TCDD-13C	0.78	0.79	0.79	0.79	0.79	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.22	1.23	1.24	1.22	1.23	1.05 - 1.43
2,3,7,8-TCDF-13C	0.77	0.77	0.78	0.77	0.78	0.65 - 0.89
2,3,7,8-TCDD-13C	0.79	0.78	0.79	0.80	0.77	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.56	1.52	1.56	1.54	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.55	1.53	1.54	1.57	1.55	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.57	1.55	1.59	1.59	1.55	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.51	0.50	0.52	0.52	0.52	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.53	0.52	0.51	0.53	0.52	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.51	0.51	0.51	0.51	0.52	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.52	0.51	0.52	0.52	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.25	1.24	1.24	1.32	1.27	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.28	1.26	1.26	1.19	1.23	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.46	0.46	0.45	0.45	0.46	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.46	0.46	0.46	0.46	0.45	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.07	1.06	1.06	1.03	1.02	0.88 - 1.20
OCDD-13C	0.88	0.90	0.90	0.91	0.90	0.76 - 1.02

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Labeled Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140512A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	05/12/2014 10:48	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.81	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.77	0.65 - 0.89	99.5	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.57	1.32 - 1.78	98.4	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	105.6	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	101.5	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.21	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.06	0.88 - 1.20	120.4	72 - 138
OCDD-13C	M+2/M+4	0.89	0.76 - 1.02	241.1	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.79	0.65 - 0.89	98.7	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	107.3	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.59	1.32 - 1.78	102.1	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	104.0	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.54	0.43 - 0.59	100.8	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	104.3	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	113.9	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	120.1	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	116.3	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.5	7.9 - 12.7

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

4. No ion abundance ratio; report concentration found.

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Native Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140512A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	05/12/2014 10:48	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.80	0.65 - 0.89	10.3	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.60	0.52 - 0.70	47.6	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05 - 1.43	49.5	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05 - 1.43	48.3	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05 - 1.43	50.9	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88 - 1.20	49.7	43 - 58
OCDD	M+2/M+4	0.90	0.76 - 1.02	96.1	79 - 126
2,3,7,8-TCDF	M/M+2	0.76	0.65 - 0.89	9.8	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32 - 1.78	47.5	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.50	1.32 - 1.78	48.4	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05 - 1.43	48.0	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	49.6	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05 - 1.43	49.0	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05 - 1.43	48.0	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88 - 1.20	48.7	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88 - 1.20	49.5	43 - 58
OCDF	M+2/M+4	0.89	0.76 - 1.02	95.4	63 - 159

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Labeled Analytes

Lab Name	CS3/CPM-7604-304		
Filename	F140512A_03	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	05/12/2014 13:25	ICAL ID	F131125

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.77	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.75	0.65 - 0.89	104.2	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.58	1.32 - 1.78	93.4	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.29	1.05 - 1.43	95.6	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.22	1.05 - 1.43	112.6	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.21	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.03	0.88 - 1.20	112.4	72 - 138
OCDD-13C	M+2/M+4	0.87	0.76 - 1.02	220.9	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.77	0.65 - 0.89	101.6	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.59	1.32 - 1.78	103.7	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	101.4	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	110.3	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	119.9	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	110.9	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	114.5	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	106.1	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	108.6	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.6	7.9 - 12.7

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

4. No ion abundance ratio; report concentration found.

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Native Analytes

Lab Name	CS3/CPM-7604-304		
Filename	F140512A_03	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	05/12/2014 13:25	ICAL ID	F131125

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.78	0.65 - 0.89	8.8	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.59	0.52 - 0.70	49.4	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05 - 1.43	54.5	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05 - 1.43	54.0	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.18	1.05 - 1.43	51.8	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88 - 1.20	48.9	43 - 58
OCDD	M+2/M+4	0.88	0.76 - 1.02	93.8	79 - 126
2,3,7,8-TCDF	M/M+2	0.76	0.65 - 0.89	10.2	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32 - 1.78	51.5	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32 - 1.78	51.4	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05 - 1.43	51.5	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05 - 1.43	50.4	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05 - 1.43	52.8	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05 - 1.43	50.5	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88 - 1.20	47.2	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	46.8	43 - 58
OCDF	M+2/M+4	0.89	0.76 - 1.02	94.1	63 - 159

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Labeled Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140513A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	05/13/2014 08:11	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.79	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.80	0.65 - 0.89	95.2	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.57	1.32 - 1.78	70.5	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	99.0	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	103.0	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.05	0.88 - 1.20	110.9	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	284.6	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.79	0.65 - 0.89	112.2	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.56	1.32 - 1.78	88.8	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.63	1.32 - 1.78	83.6	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	116.6	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	118.4	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	113.3	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	122.4	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.46	0.37 - 0.51	113.6	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	125.7	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.6	7.9 - 12.7

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

4. No ion abundance ratio; report concentration found.

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Native Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140513A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	05/13/2014 08:11	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.74	0.65 - 0.89	11.0	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.59	0.52 - 0.70	51.8	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05 - 1.43	52.1	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.19	1.05 - 1.43	52.6	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05 - 1.43	53.9	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88 - 1.20	54.0	43 - 58
OCDD	M+2/M+4	0.88	0.76 - 1.02	100.5	79 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65 - 0.89	10.3	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.32 - 1.78	51.2	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.51	1.32 - 1.78	51.9	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05 - 1.43	50.2	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	50.6	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	51.2	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05 - 1.43	49.5	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88 - 1.20	49.9	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88 - 1.20	50.7	43 - 58
OCDF	M+2/M+4	0.87	0.76 - 1.02	110.5	63 - 159

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Labeled Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140513A_17	Instrument ID	10MSHR06 (U)
Injected By	CVS	GC Column ID	USD397111H
Analyzed	05/13/2014 20:48	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.77	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.81	0.65 - 0.89	99.7	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.53	1.32 - 1.78	105.9	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	104.3	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	103.3	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.08	0.88 - 1.20	98.9	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	206.5	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	107.4	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	109.6	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.56	1.32 - 1.78	111.8	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	114.9	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	111.5	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	110.6	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	111.8	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	104.8	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	104.5	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.0	7.9 - 12.7

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

4. No ion abundance ratio; report concentration found.

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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Native Analytes

Lab Name	CS3/CPM-7604-304		
Filename	U140513A_17	Instrument ID	10MSHR06 (U)
Injected By	CVS	GC Column ID	USD397111H
Analyzed	05/13/2014 20:48	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.75	0.65 - 0.89	10.7	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.52 - 0.70	49.3	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05 - 1.43	50.8	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05 - 1.43	50.7	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.18	1.05 - 1.43	51.2	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88 - 1.20	51.6	43 - 58
OCDD	M+2/M+4	0.91	0.76 - 1.02	103.4	79 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65 - 0.89	10.5	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32 - 1.78	50.5	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.50	1.32 - 1.78	50.0	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	48.7	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	49.2	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05 - 1.43	49.8	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05 - 1.43	50.3	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88 - 1.20	50.4	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88 - 1.20	49.7	43 - 58
OCDF	M+2/M+4	0.90	0.76 - 1.02	102.5	63 - 159

1. See Table 8, Method 1613, for m/z specifications.

2. Ion Abundance Ratio Control Limits from Table 9, Method 1613.

3. Contract-required concentration range as specified in Table 6, Method 1613, under VER (10/94 Revision).

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Appendix D

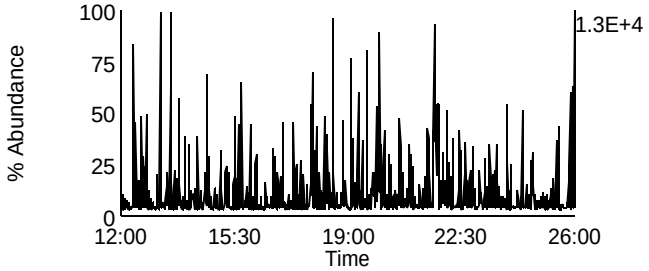
Sample Raw Data

Homologue Group: Tetras

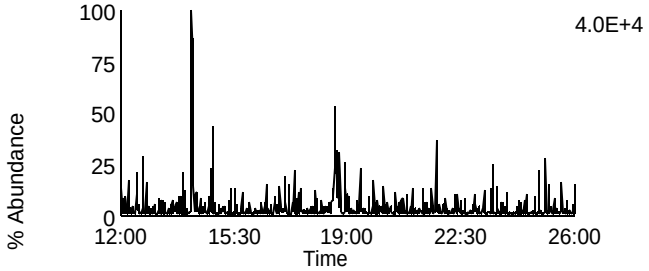
Data File Name: U140512A_09
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001 - SMT WI

Lab Sample ID: 10265141001
Client Sample ID: MAK109O
Instrument: 10MSHR06 (U)

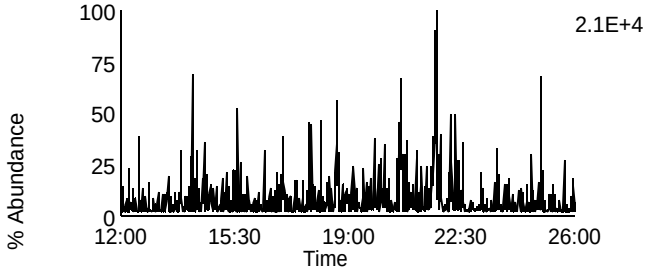
Data File: U140512A_09 G1 C1 - 303.9016
SAMP 10265141001 - SMT WI



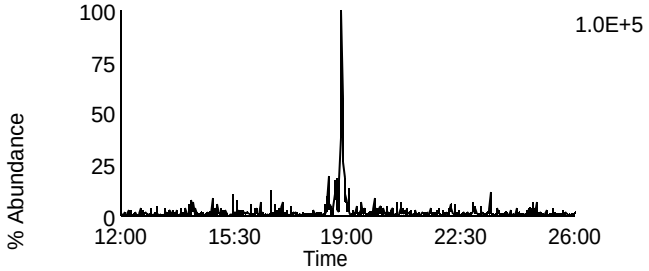
Data File: U140512A_09 G1 C7 - 319.8965
SAMP 10265141001 - SMT WI



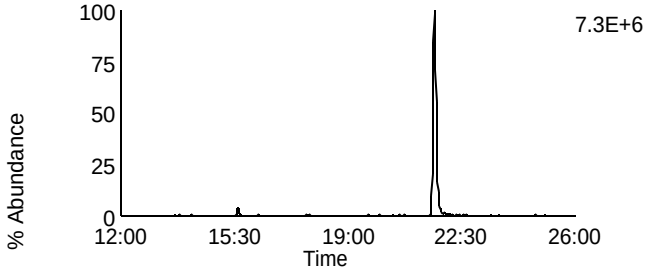
Data File: U140512A_09 G1 C2 - 305.8987
SAMP 10265141001 - SMT WI



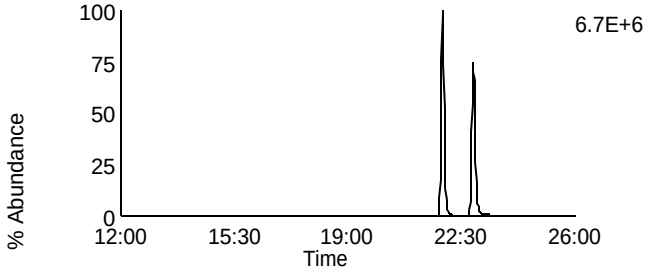
Data File: U140512A_09 G1 C8 - 321.8936
SAMP 10265141001 - SMT WI



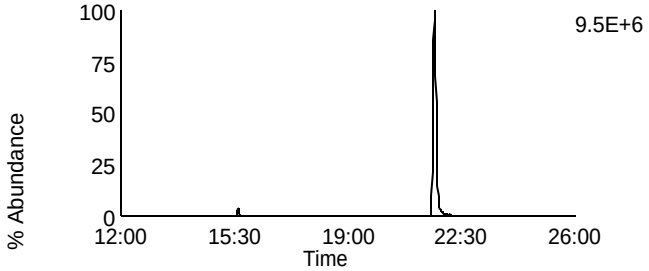
Data File: U140512A_09 G1 C3 - 315.9418
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G1 C10 - 331.9367
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G1 C4 - 317.9389
SAMP 10265141001 - SMT WI



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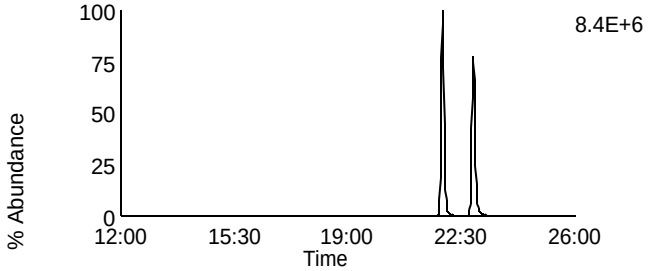
SAMP 10265141001 - SMT WI



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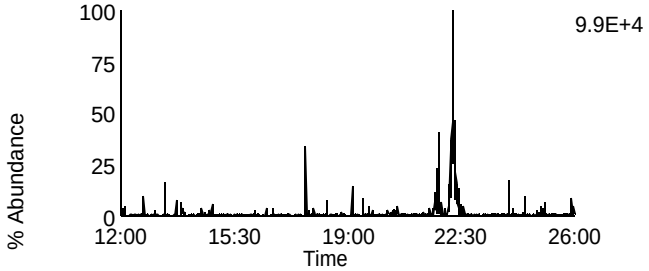
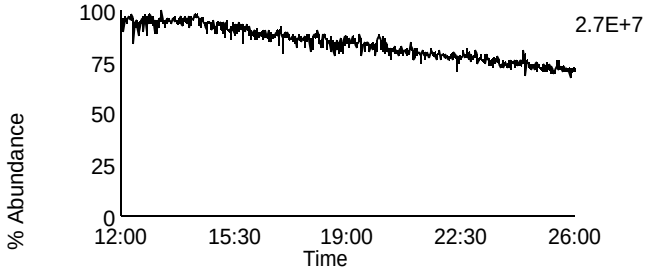
SAMP 10265141001 - SMT WI



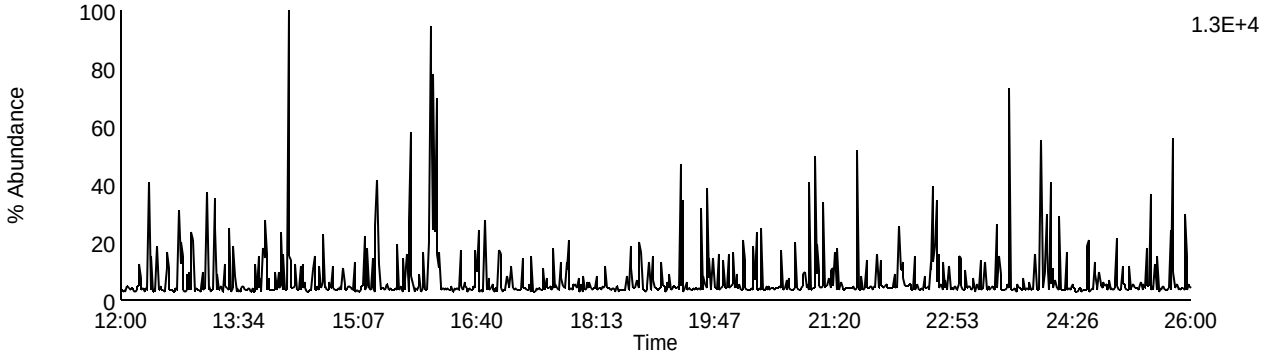
Data File: U140512A_09 G1 C5 - 318.9792
SAMP 10265141001 - SMT WI



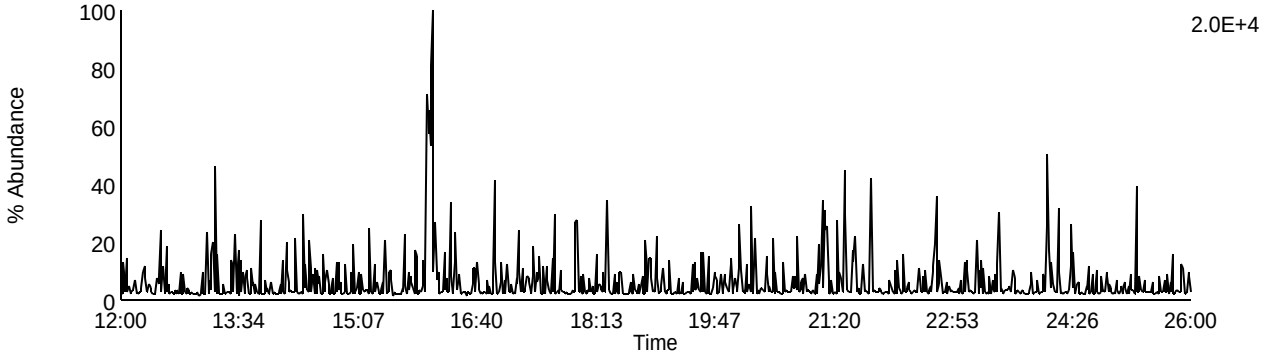
Homologue Group: Penta & Cleanup

Data File Name: U140512A_09	Lab Sample ID: 10265141001
Date Acquired: 5/12/2014	Client Sample ID: MAK109O
Sample Description: SAMP 10265141001 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140512A_09 G1 C12 - 339.8597
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G1 C13 - 341.8567
SAMP 10265141001 - SMT WI



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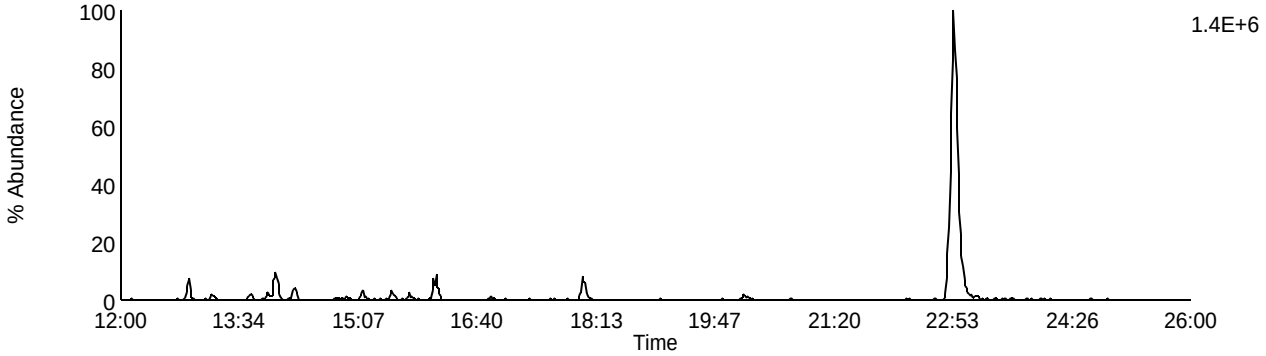
SAMP 10265141001 - SMT WI



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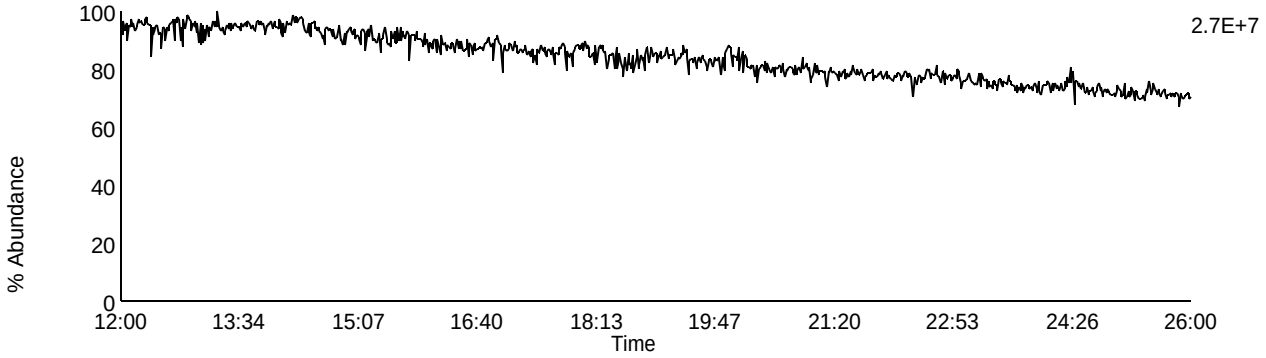
SAMP 10265141001 - SMT WI

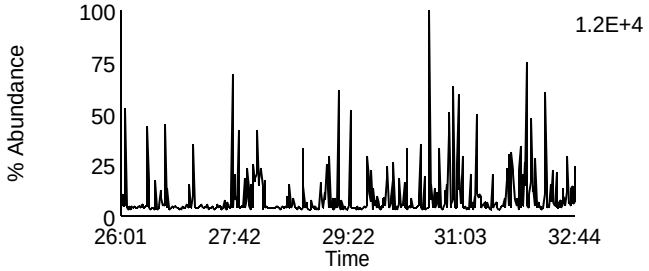


Homologue Group: Pentas

Data File Name: U140512A_09
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001 - SMT WI

Lab Sample ID: 10265141001
Client Sample ID: MAK109O
Instrument: 10MSHR06 (U)

Data File: U140512A_09 G2 C1 - 339.8597
SAMP 10265141001 - SMT WI



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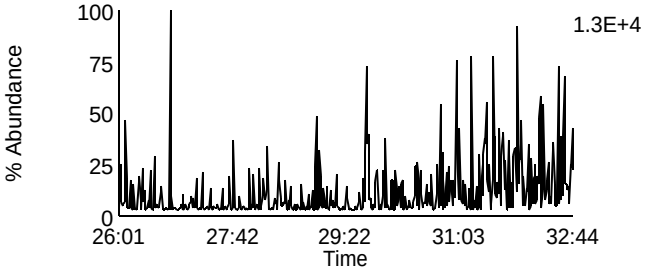
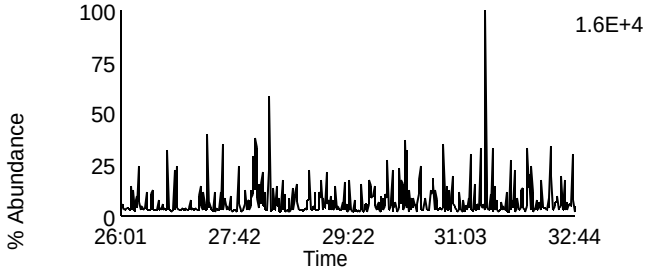
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G2 C2 - 341.8567
SAMP 10265141001 - SMT WI



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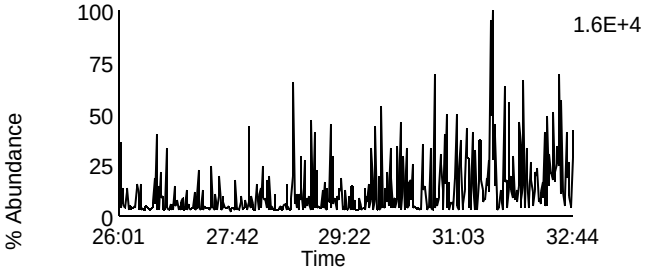
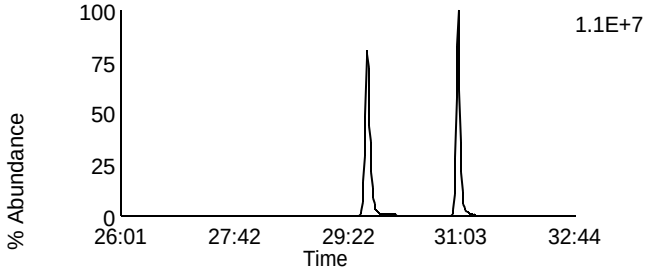
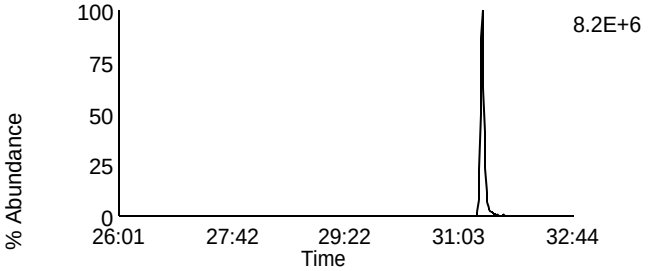
SAMP 10265141001 - SMT WI



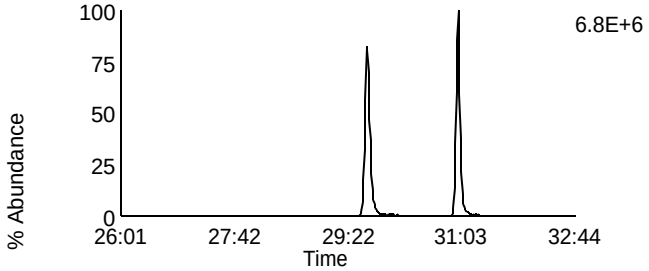
Data File: U140512A_09 G2 C3 - 351.8999
SAMP 10265141001 - SMT WI



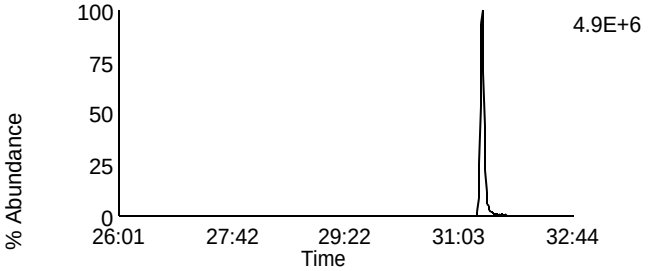
Data File: U140512A_09 G2 C10 - 367.8948
SAMP 10265141001 - SMT WI



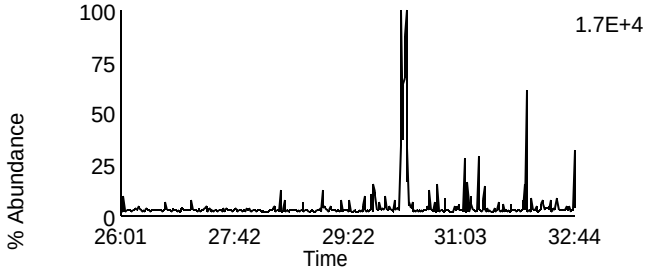
Data File: U140512A_09 G2 C5 - 353.8969
SAMP 10265141001 - SMT WI



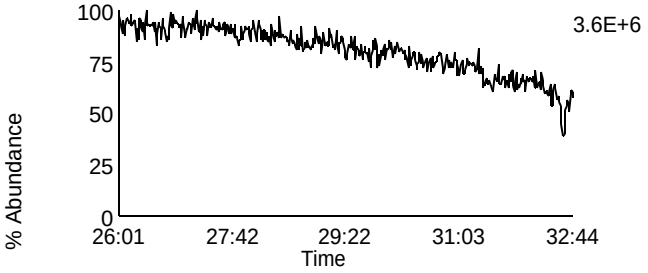
Data File: U140512A_09 G2 C11 - 369.8918
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G2 C12 - 409.7974
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G2 C6 - 354.9792
SAMP 10265141001 - SMT WI

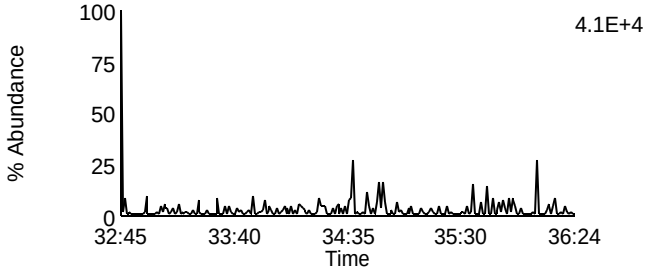


Homologue Group: Hexas

Data File Name: U140512A_09
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001 - SMT WI

Lab Sample ID: 10265141001
Client Sample ID: MAK109O
Instrument: 10MSHR06 (U)

Data File: U140512A_09 G3 C1 - 373.8207
SAMP 10265141001 - SMT WI



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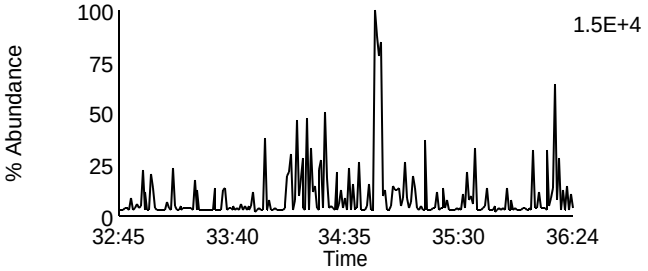
SAMP 10265141001 - SMT WI



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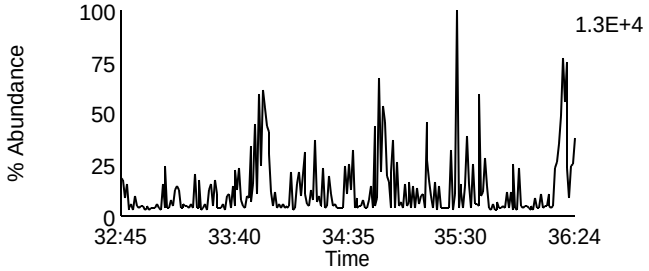
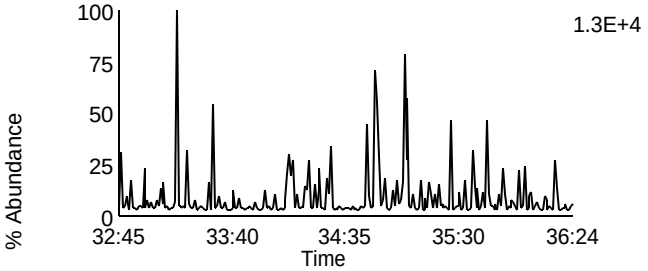
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G3 C8 - 391.8127
SAMP 10265141001 - SMT WI



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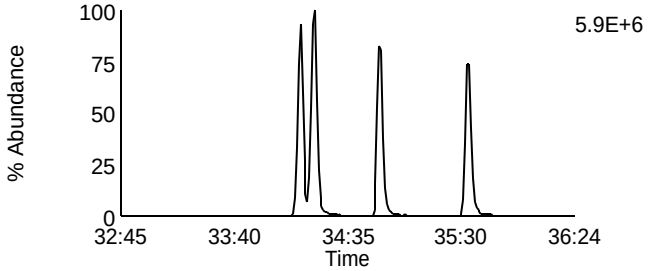
SAMP 10265141001 - SMT WI



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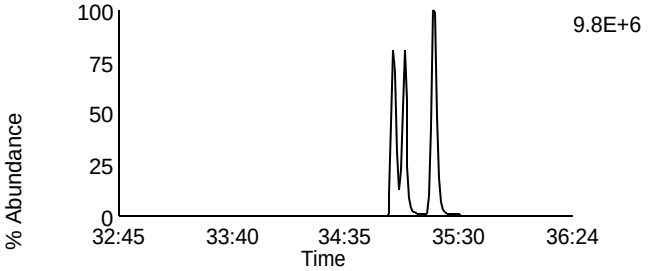
SAMP 10265141001 - SMT WI



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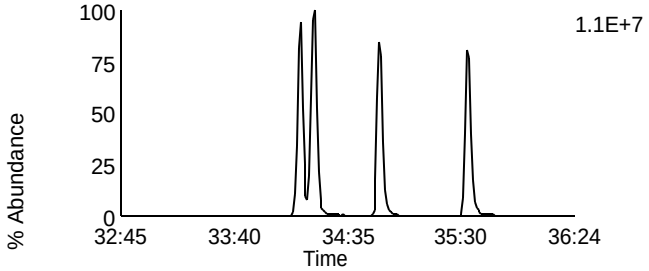
SAMP 10265141001 - SMT WI



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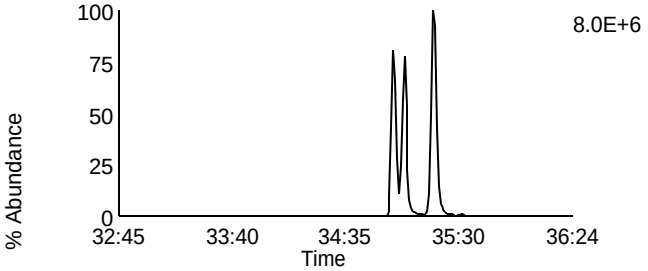

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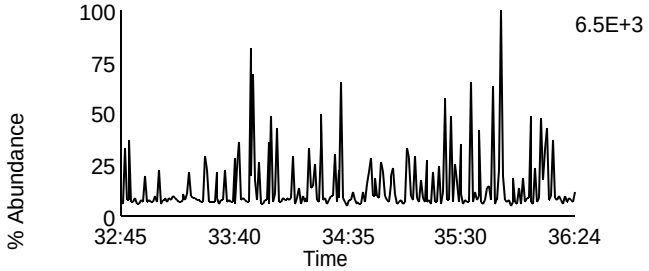
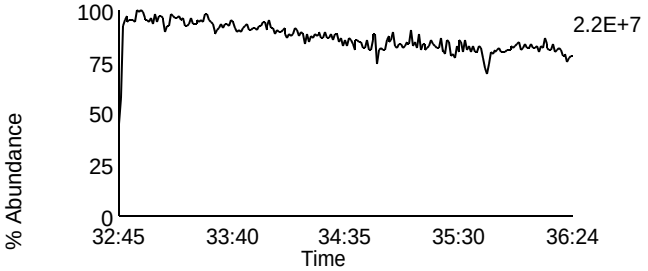
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G3 C3 - 380.976
SAMP 10265141001 - SMT WI

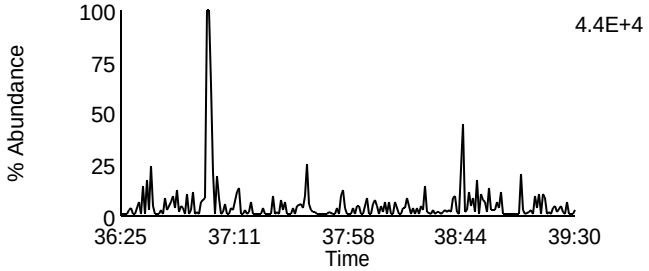


Homologue Group: Heptas

Data File Name: U140512A_09
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001 - SMT WI

Lab Sample ID: 10265141001
Client Sample ID: MAK109O
Instrument: 10MSHR06 (U)

Data File: U140512A_09 G4 C3 - 407.7818
SAMP 10265141001 - SMT WI



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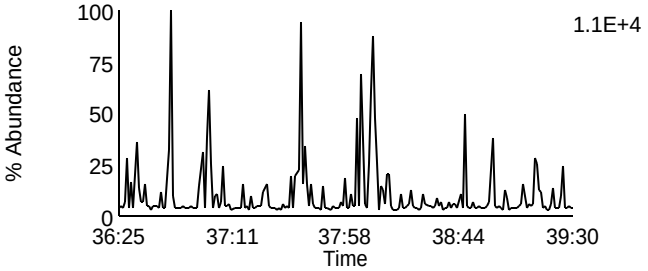
SAMP 10265141001 - SMT WI



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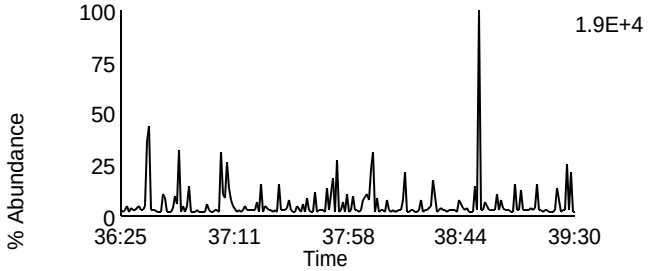
SAMP 10265141001 - SMT WI



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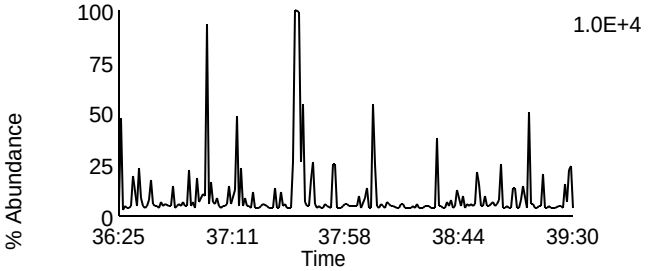
SAMP 10265141001 - SMT WI



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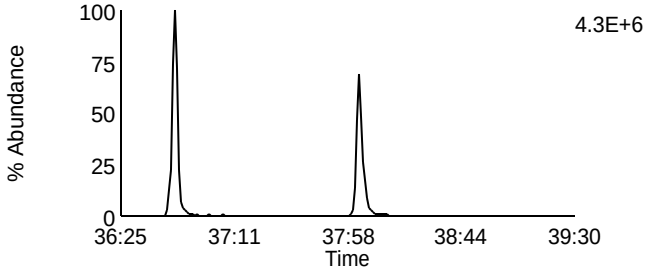
SAMP 10265141001 - SMT WI



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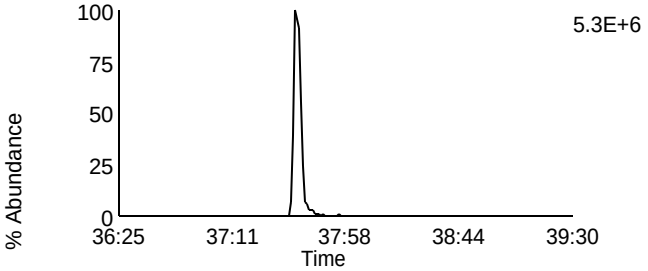
SAMP 10265141001 - SMT WI



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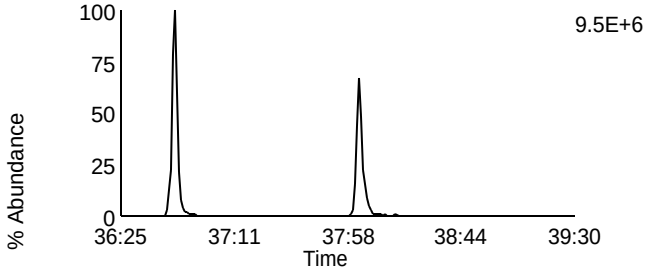
SAMP 10265141001 - SMT WI



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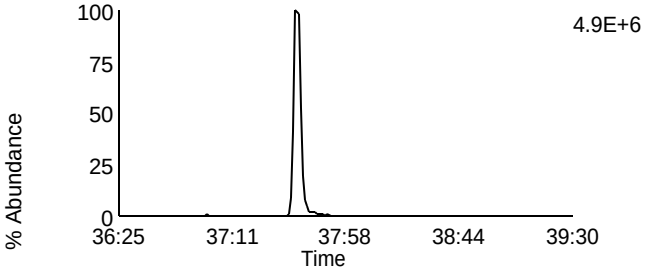
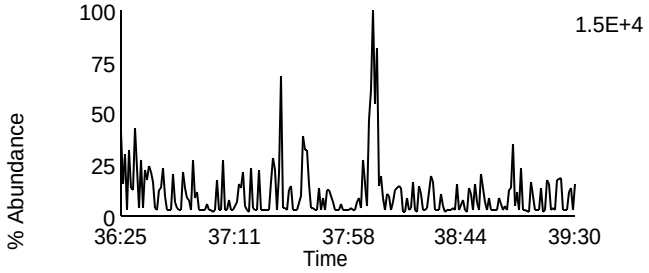
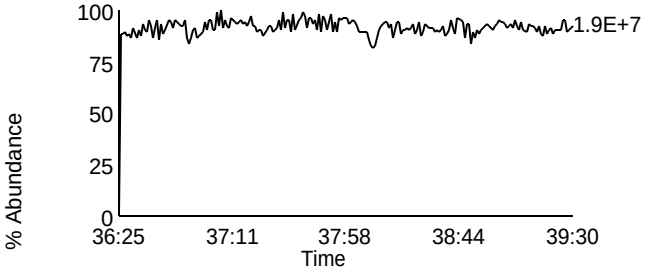
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G4 C13 - 479.7165
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G4 C1 - 380.976
SAMP 10265141001 - SMT WI

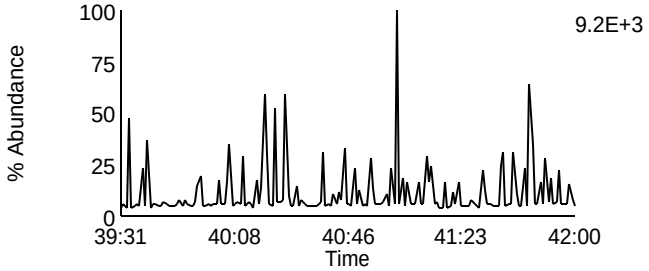


Homologue Group: Octas

Data File Name: U140512A_09
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001 - SMT WI

Lab Sample ID: 10265141001
Client Sample ID: MAK109O
Instrument: 10MSHR06 (U)

Data File: U140512A_09 G5 C4 - 441.7428
SAMP 10265141001 - SMT WI



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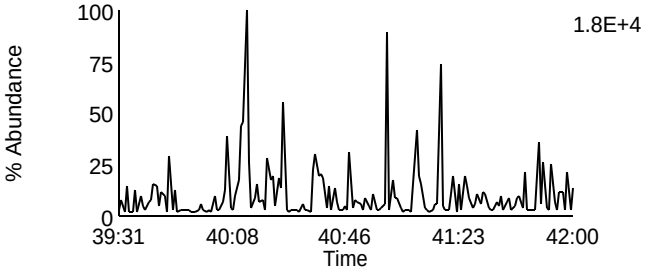
SAMP 10265141001 - SMT WI



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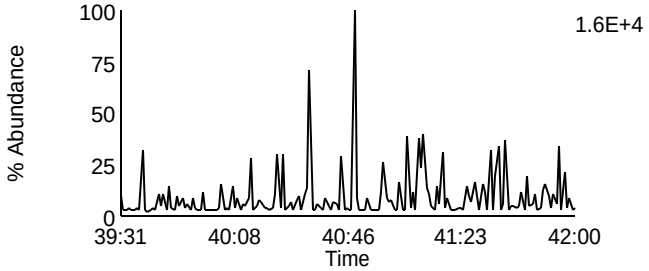
SAMP 10265141001 - SMT WI



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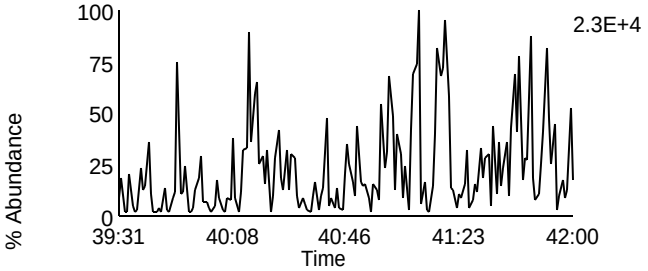
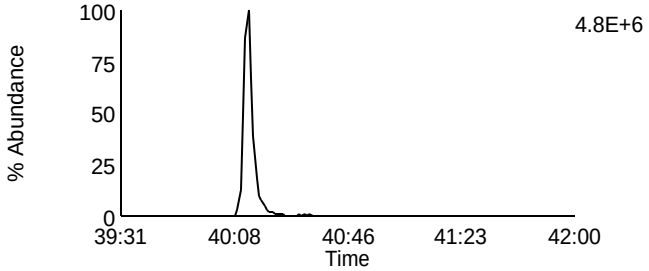
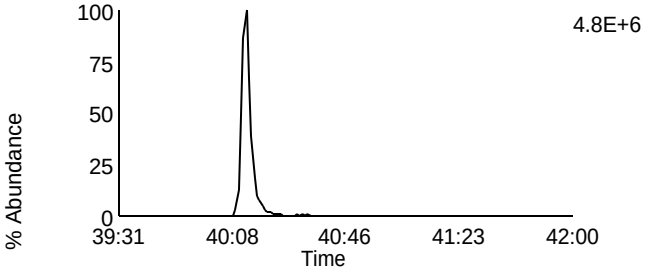
SAMP 10265141001 - SMT WI



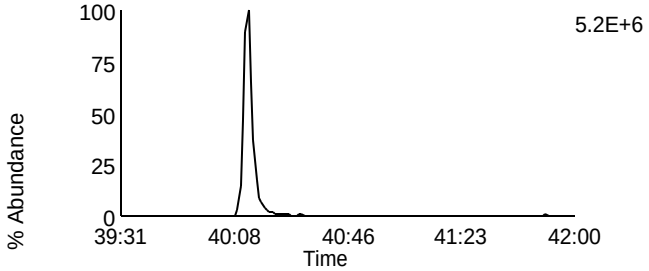
Data File: U140512A_09 G5 C11 - 469.7779
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G5 C11 - 469.7779
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G5 C12 - 471.7749
SAMP 10265141001 - SMT WI



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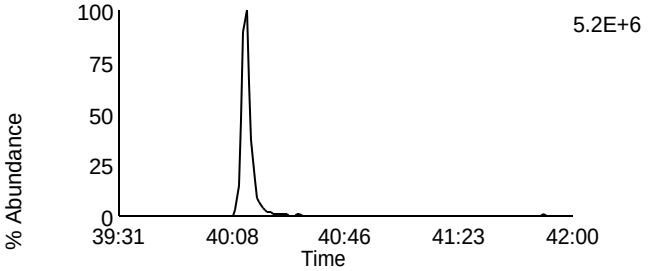
SAMP 10265141001 - SMT WI



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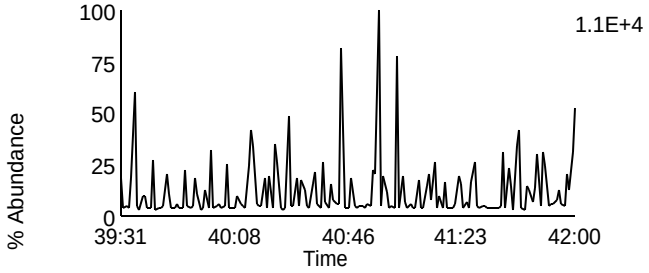
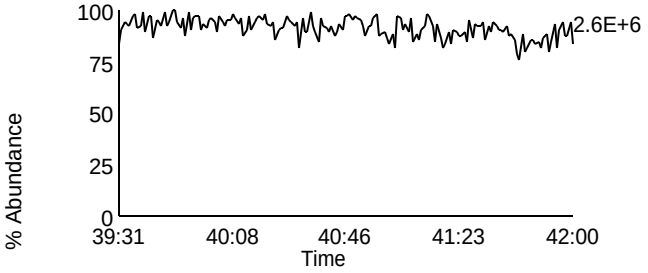
SAMP 10265141001 - SMT WI



Data File: U140512A_09 G5 C2 - 430.9728
SAMP 10265141001 - SMT WI

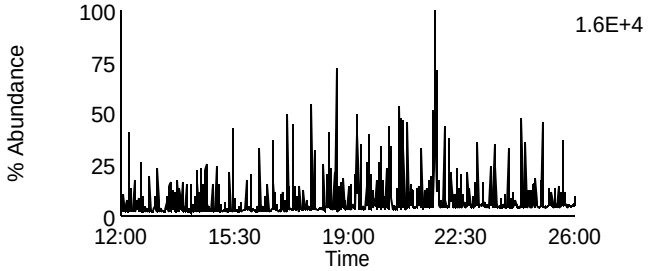


Homologue Group: Tetras

Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G1 C1 - 303.9016
SAMP 10265141002 - SMT WI



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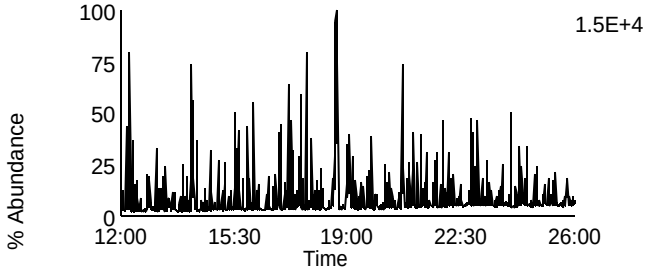
SAMP 10265141002 - SMT WI



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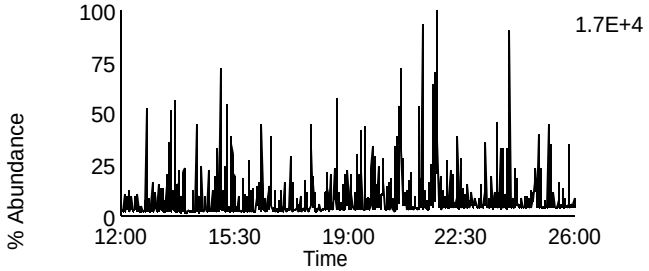
SAMP 10265141002 - SMT WI



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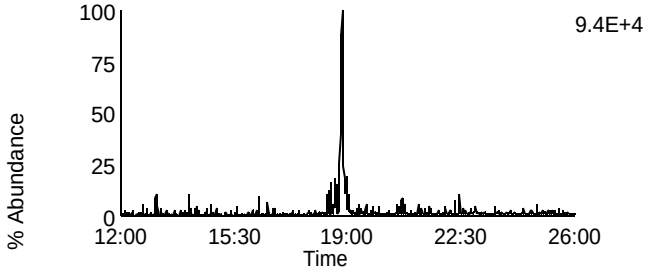
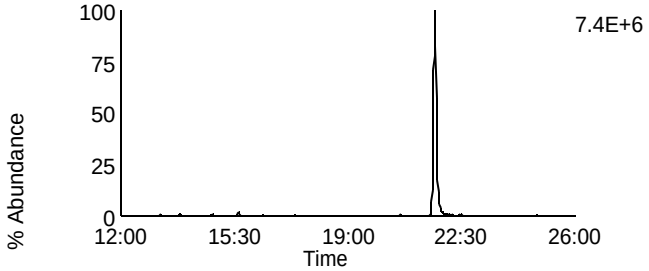
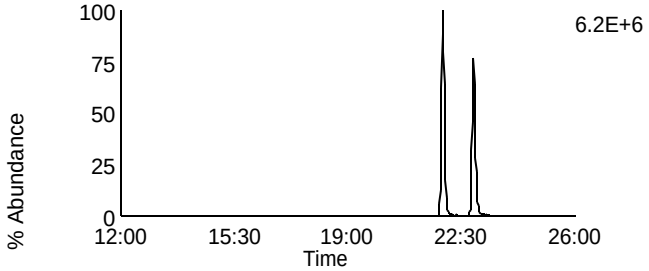
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G1 C3 - 315.9418
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G1 C10 - 331.9367
SAMP 10265141002 - SMT WI



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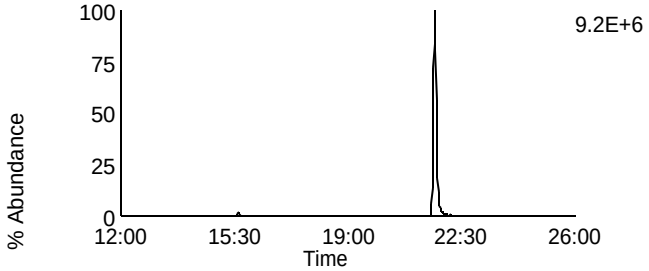
SAMP 10265141002 - SMT WI



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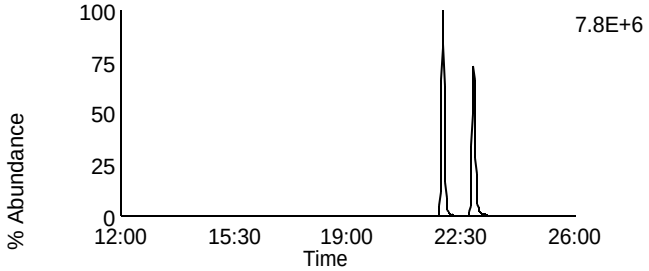
SAMP 10265141002 - SMT WI



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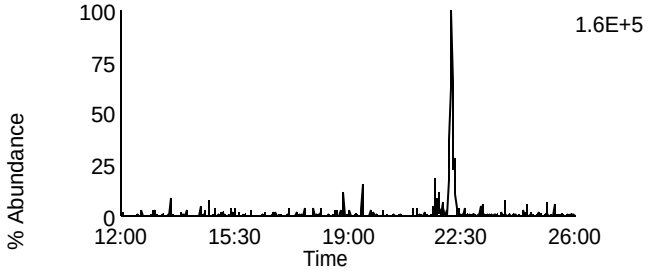
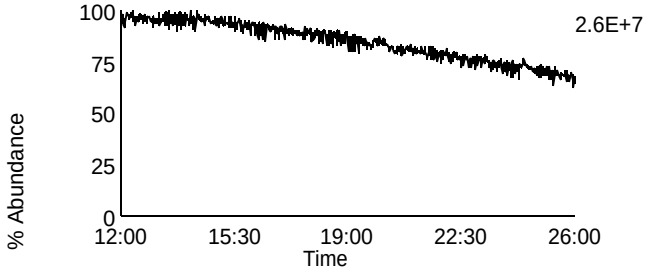
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G1 C5 - 318.9792
SAMP 10265141002 - SMT WI

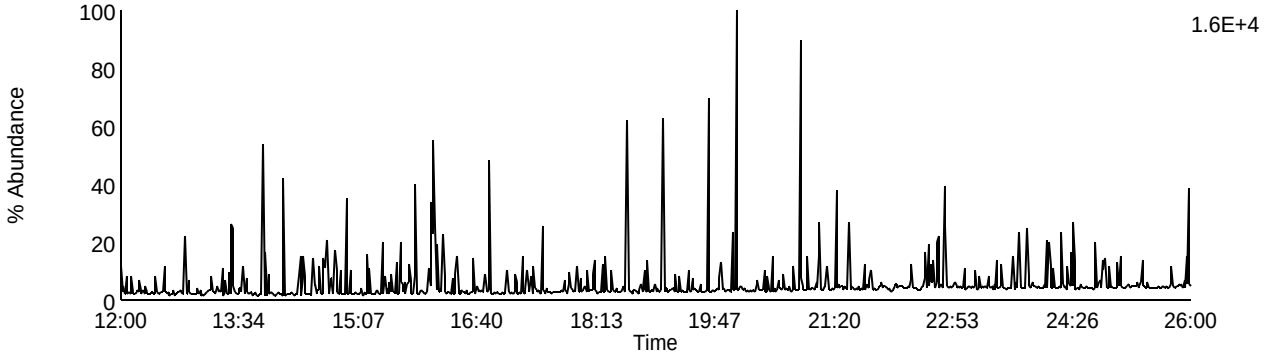


Homologue Group: Penta & Cleanup

Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G1 C12 - 339.8597
SAMP 10265141002 - SMT WI



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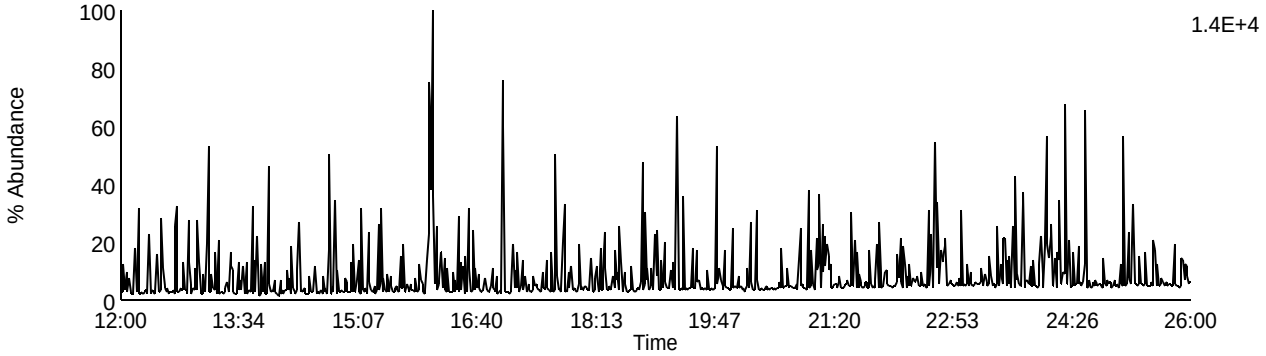
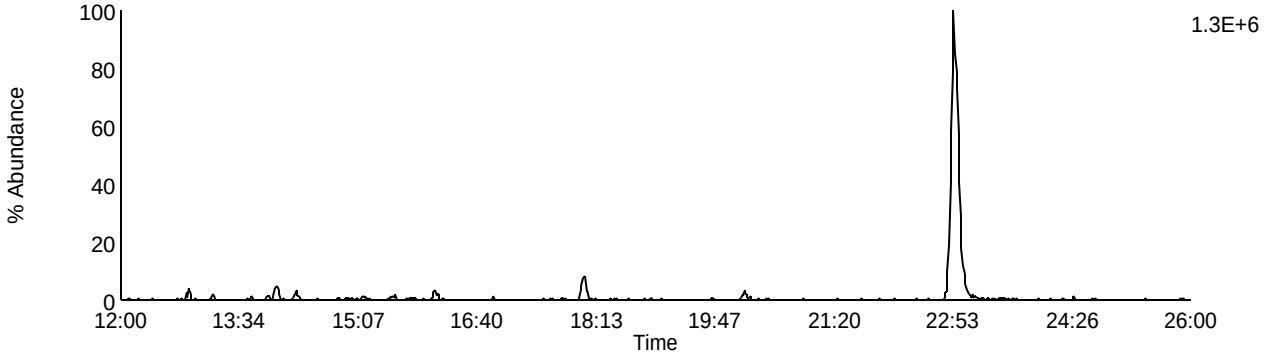
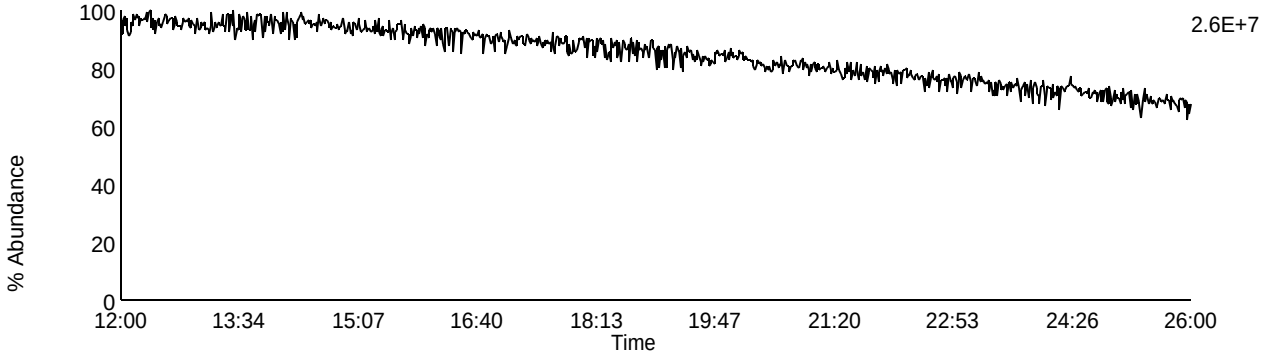
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G1 C9 - 327.8847
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G1 C5 - 318.9792
SAMP 10265141002 - SMT WI

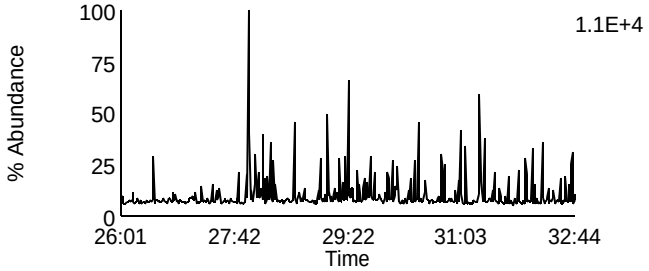


Homologue Group: Pentas

Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G2 C1 - 339.8597
SAMP 10265141002 - SMT WI



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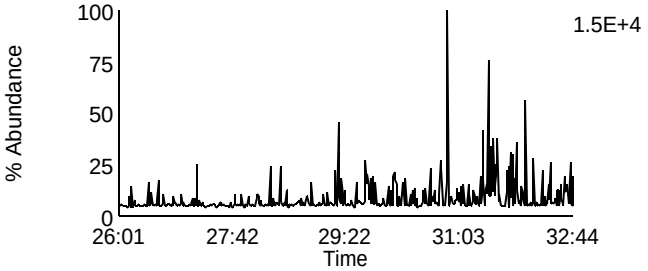
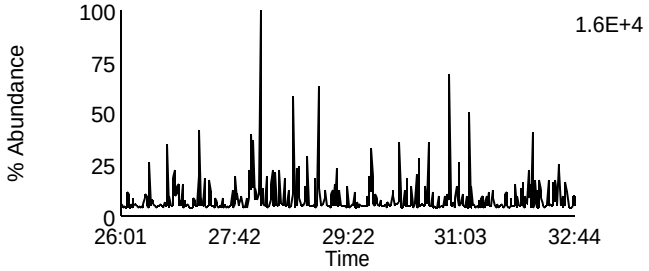
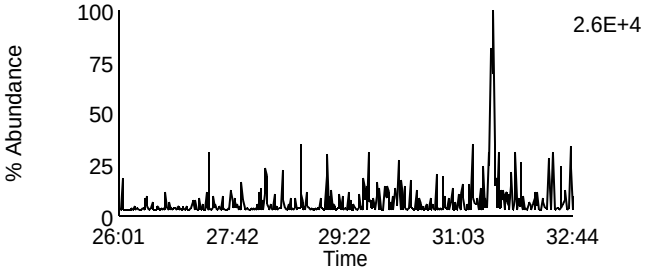
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G2 C2 - 341.8567
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G2 C8 - 355.8546
SAMP 10265141002 - SMT WI



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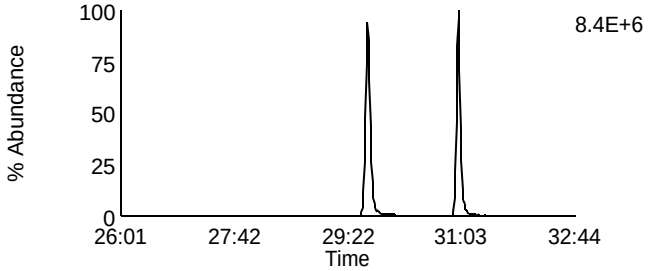
SAMP 10265141002 - SMT WI



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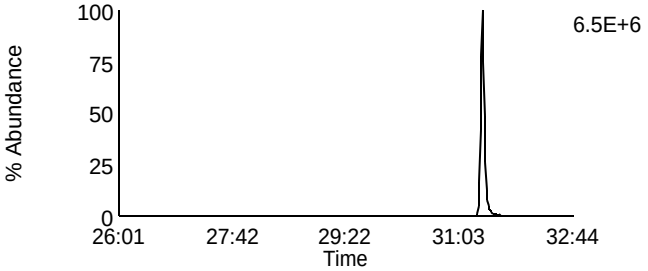
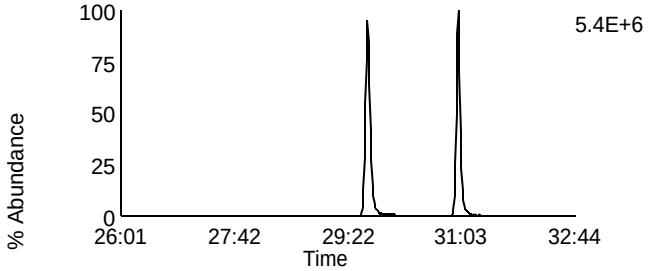
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G2 C5 - 353.8969
SAMP 10265141002 - SMT WI



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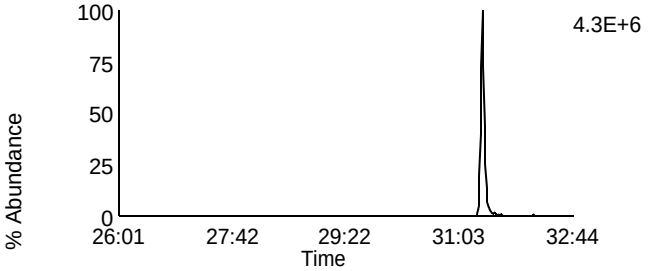
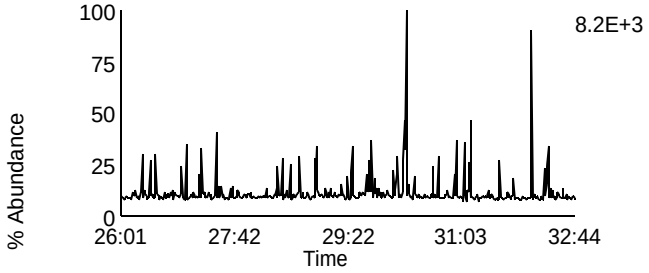
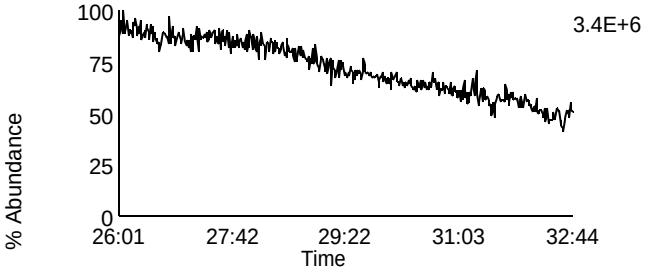
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G2 C12 - 409.7974
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G2 C6 - 354.9792
SAMP 10265141002 - SMT WI

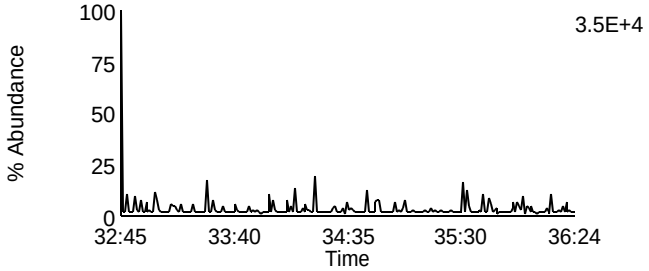


Homologue Group: Hexas

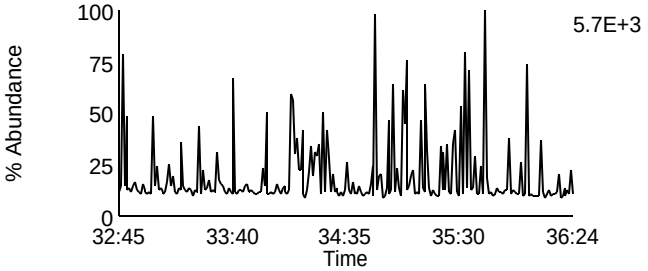
Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G3 C1 - 373.8207
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G3 C7 - 389.8156
SAMP 10265141002 - SMT WI



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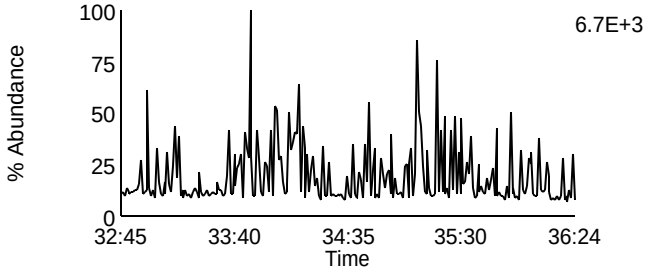
SAMP 10265141002 - SMT WI



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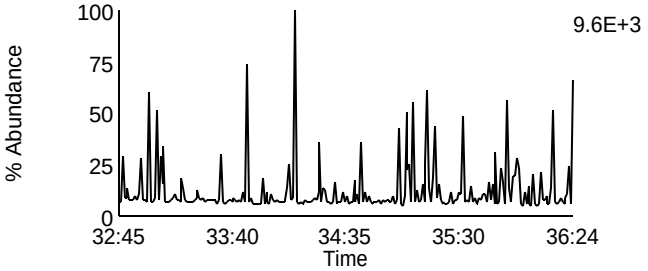
SAMP 10265141002 - SMT WI



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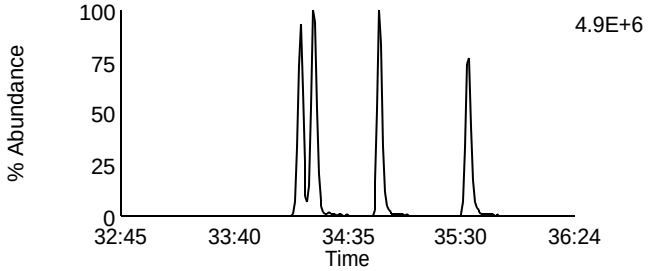
SAMP 10265141002 - SMT WI



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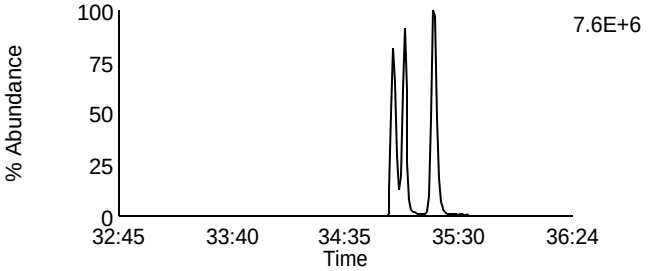
SAMP 10265141002 - SMT WI



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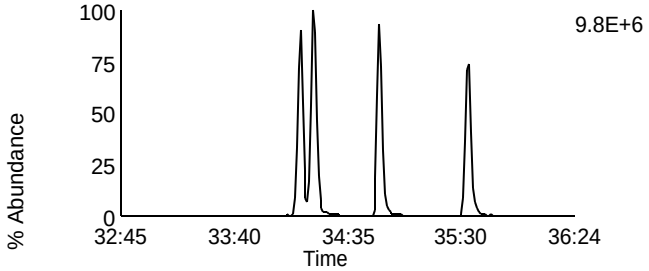
SAMP 10265141002 - SMT WI



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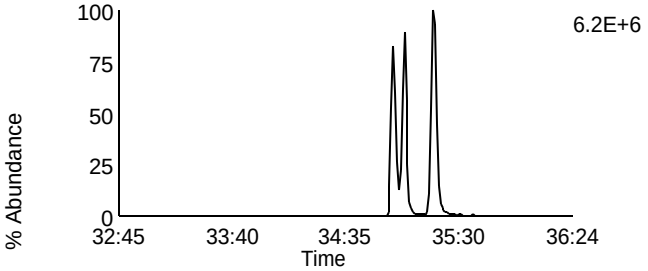
SAMP 10265141002 - SMT WI



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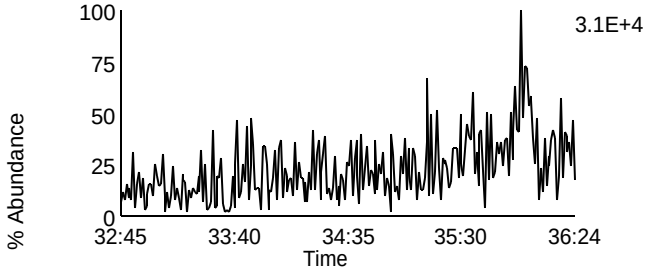
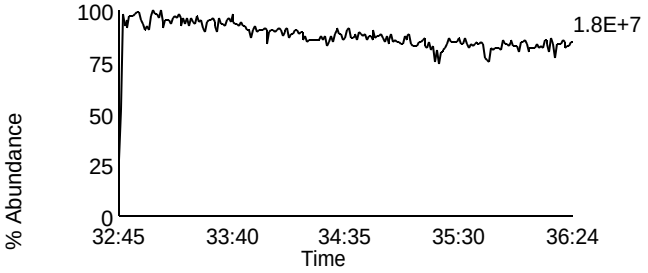
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G3 C3 - 380.976
SAMP 10265141002 - SMT WI

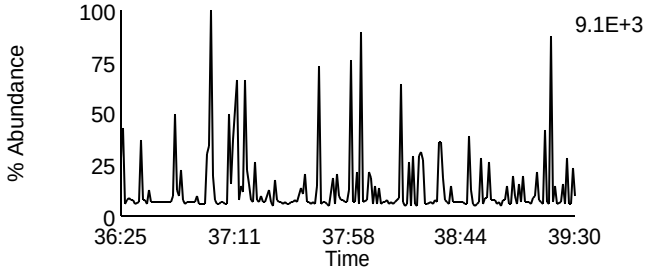


Homologue Group: Heptas

Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G4 C3 - 407.7818
SAMP 10265141002 - SMT WI



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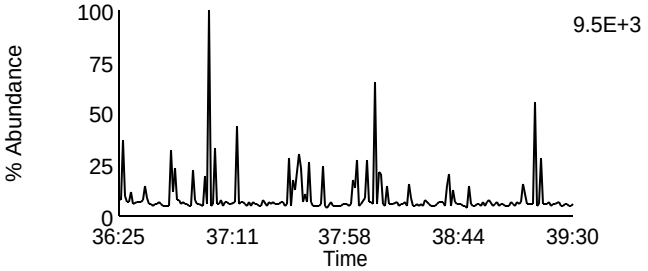
SAMP 10265141002 - SMT WI



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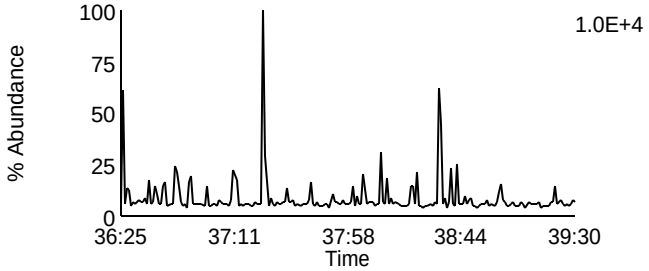
SAMP 10265141002 - SMT WI



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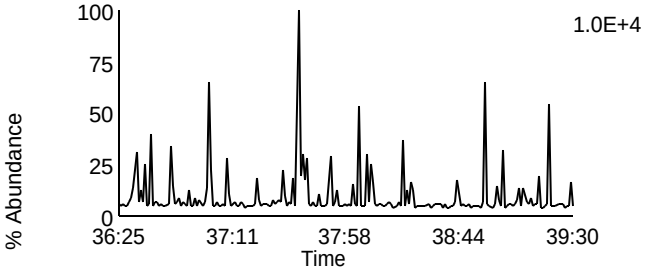
SAMP 10265141002 - SMT WI



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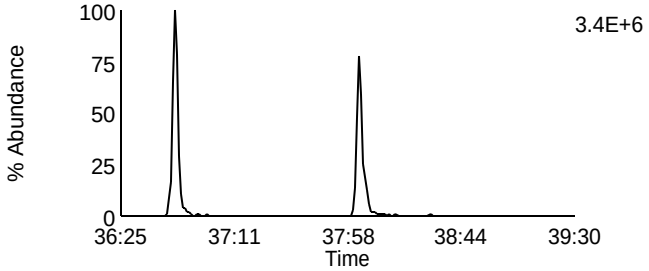
SAMP 10265141002 - SMT WI



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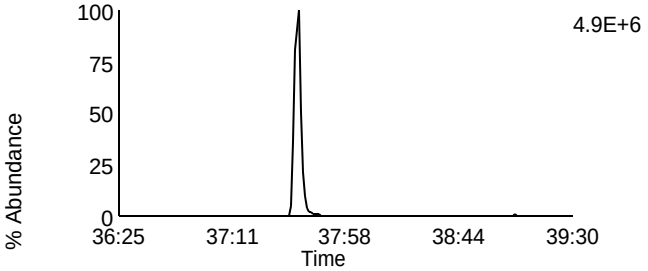
SAMP 10265141002 - SMT WI



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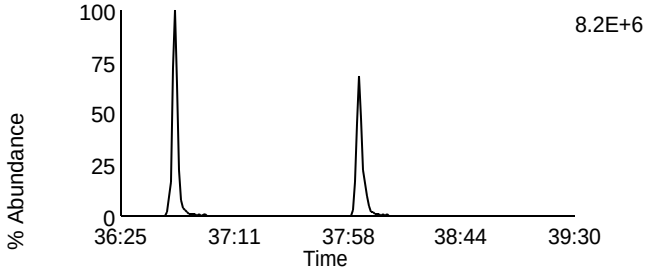
SAMP 10265141002 - SMT WI



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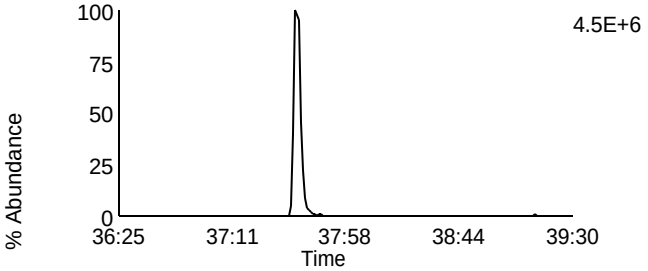
SAMP 10265141002 - SMT WI



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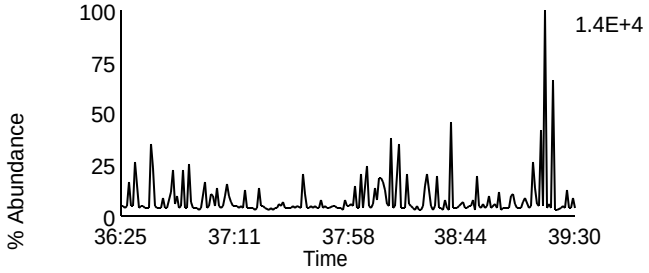
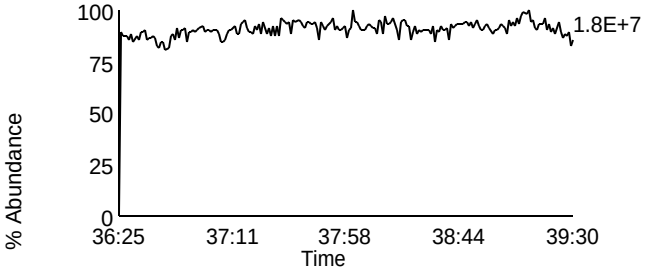
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G4 C1 - 380.976
SAMP 10265141002 - SMT WI

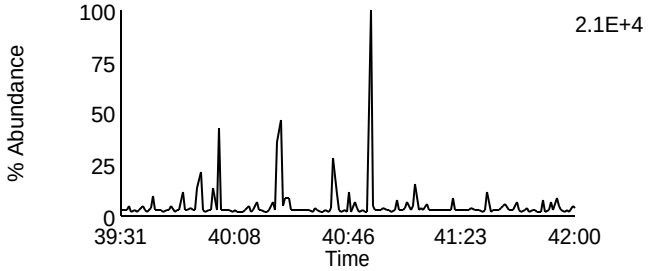


Homologue Group: Octas

Data File Name: U140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141002 - SMT WI

Lab Sample ID: 10265141002
Client Sample ID: MAK110O
Instrument: 10MSHR06 (U)

Data File: U140512A_10 G5 C4 - 441.7428
SAMP 10265141002 - SMT WI



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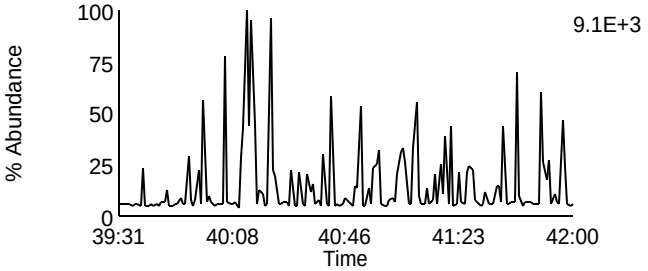
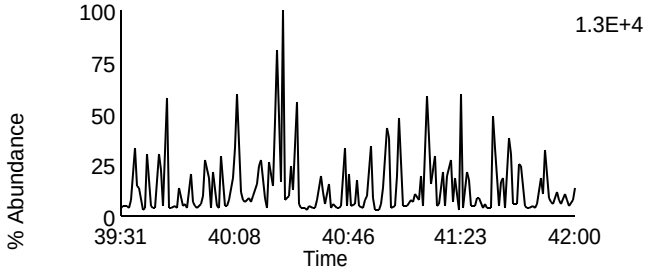
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G5 C5 - 443.7398
SAMP 10265141002 - SMT WI



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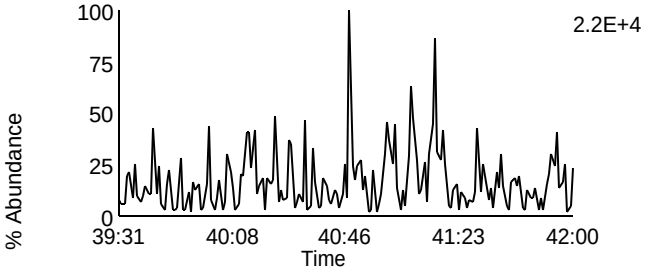
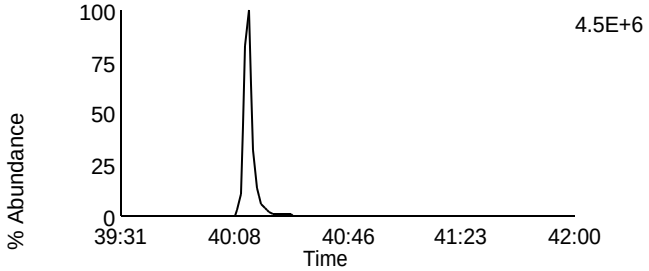
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G5 C11 - 469.7779
SAMP 10265141002 - SMT WI



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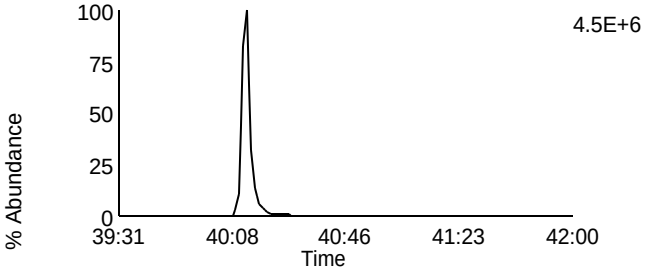
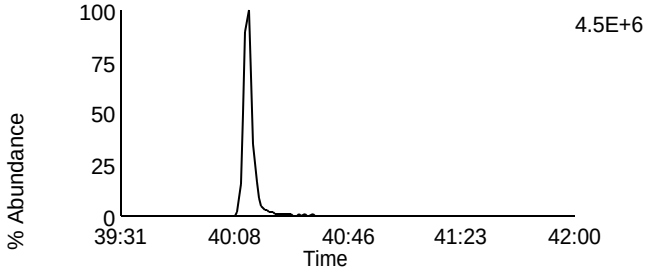
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G5 C12 - 471.7749
SAMP 10265141002 - SMT WI



Data File: U140512A_10 G5 C12 - 471.7749
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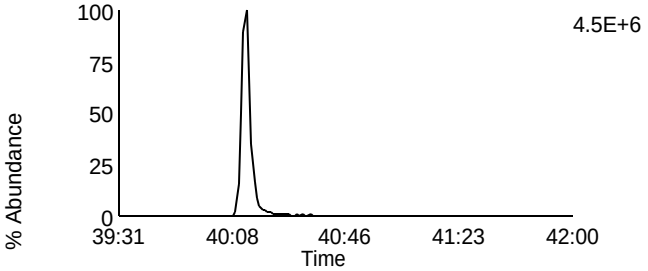
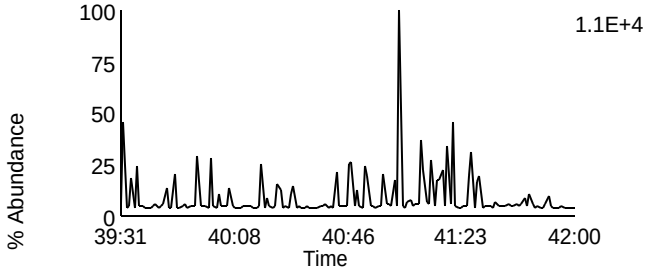


Data File: U140512A_10 G5 C13 - 513.6775
SAMP 10265141002 - SMT WI



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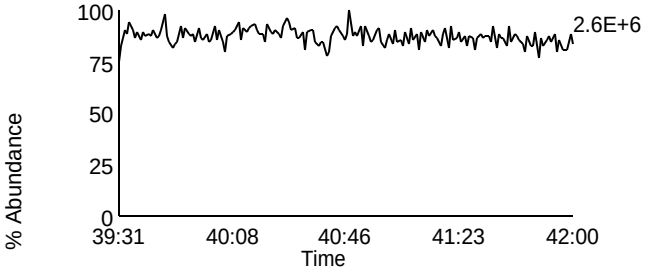
SAMP 10265141002 - SMT WI

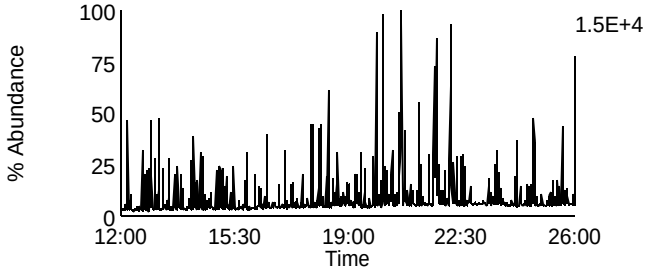


Homologue Group: Tetras

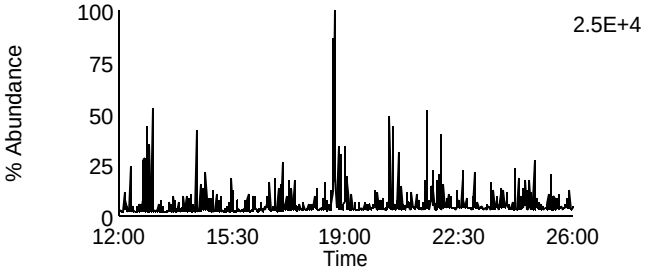
Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

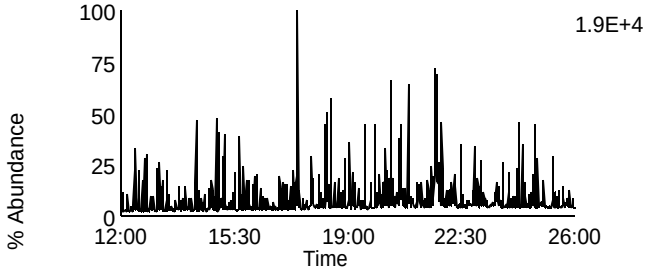
Data File: U140512A_11 G1 C1 - 303.9016
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C7 - 319.8965
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C2 - 305.8987
SAMP 10265141003 - SMT WI



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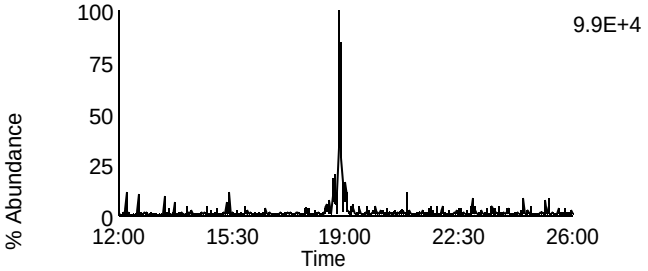
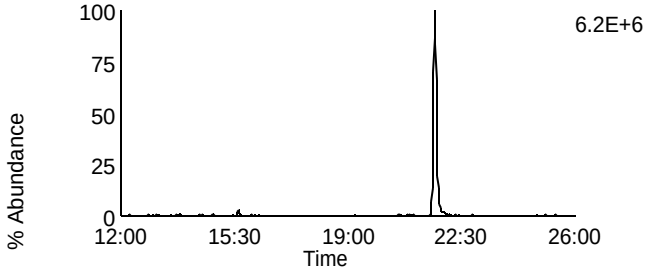
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C3 - 315.9418
SAMP 10265141003 - SMT WI



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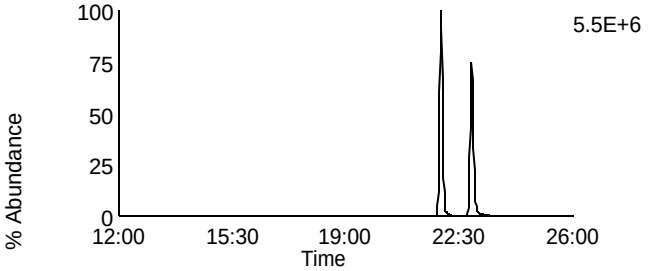
SAMP 10265141003 - SMT WI



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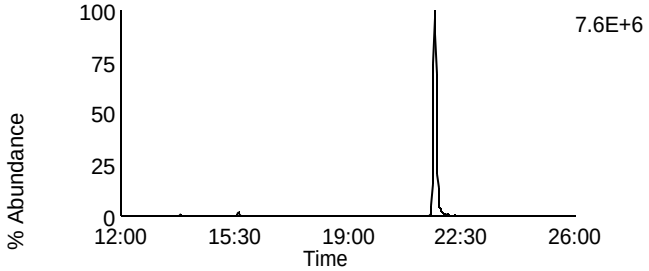
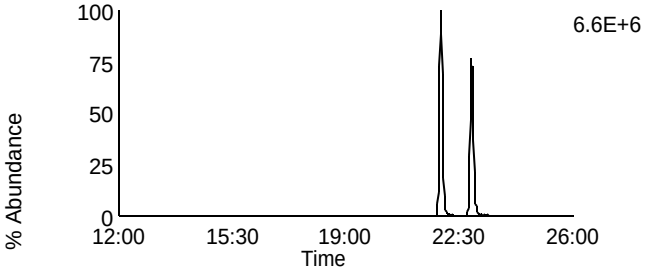
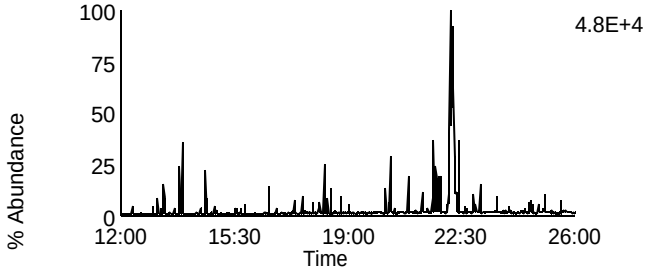
SAMP 10265141003 - SMT WI



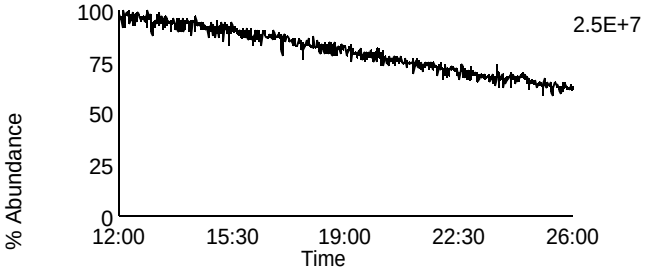
Data File: U140512A_11 G1 C11 - 333.9338
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C14 - 375.8364
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C5 - 318.9792
SAMP 10265141003 - SMT WI

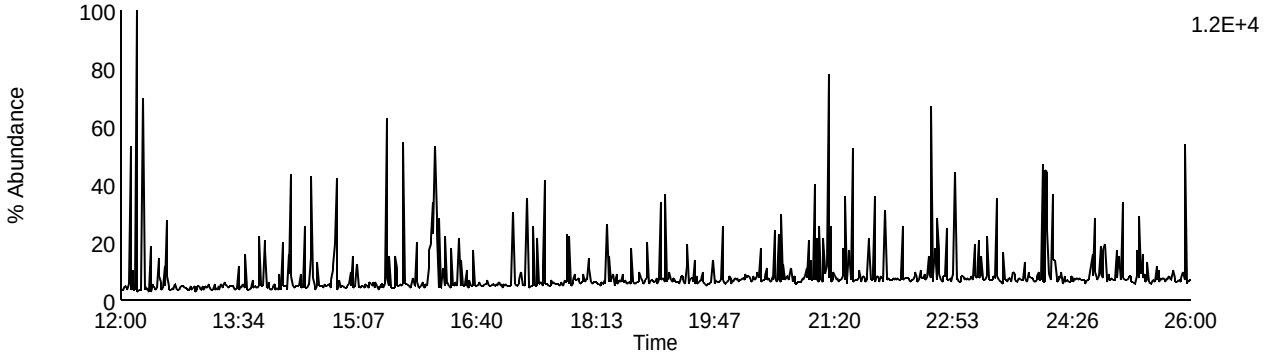


Homologue Group: Penta & Cleanup

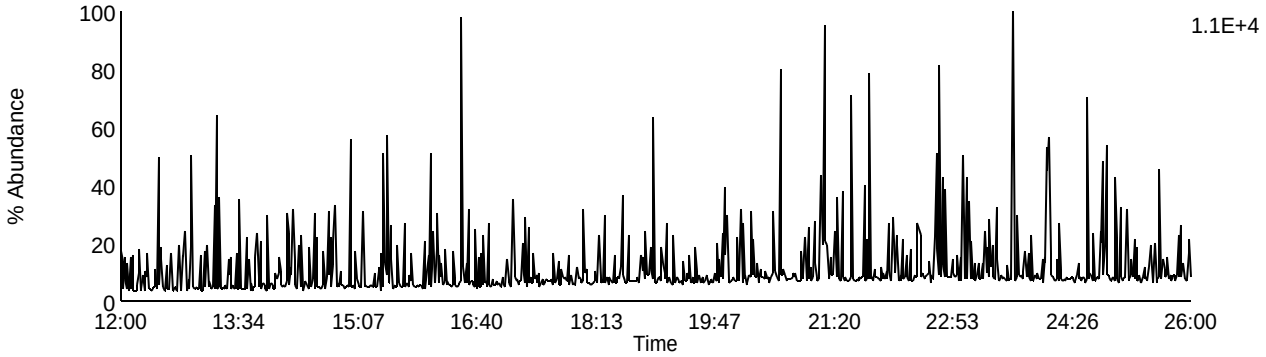
Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

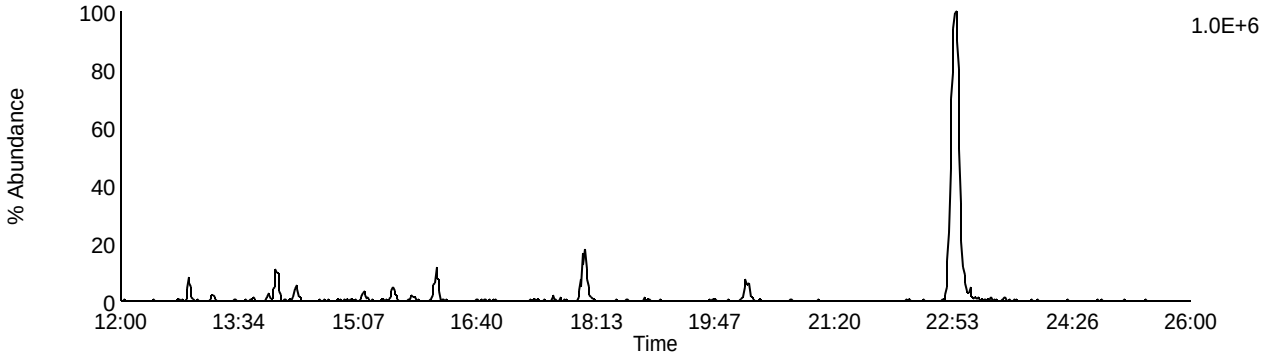
Data File: U140512A_11 G1 C12 - 339.8597
SAMP 10265141003 - SMT WI



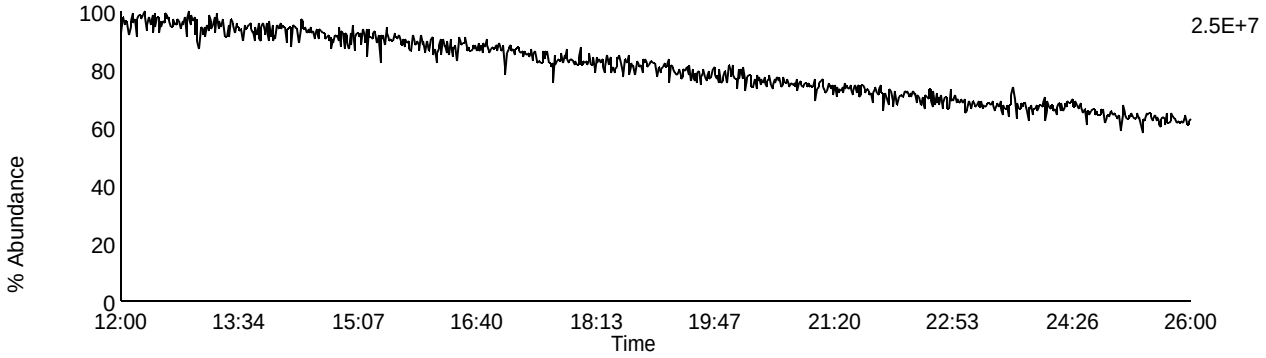
Data File: U140512A_11 G1 C13 - 341.8567
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C9 - 327.8847
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G1 C5 - 318.9792
SAMP 10265141003 - SMT WI

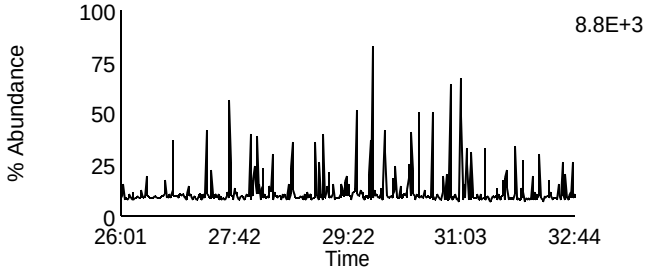


Homologue Group: Pentas

Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

Data File: U140512A_11 G2 C1 - 339.8597
SAMP 10265141003 - SMT WI



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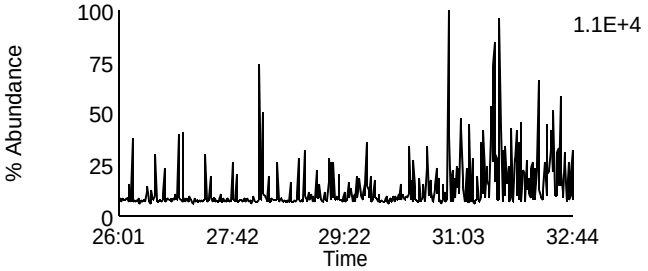
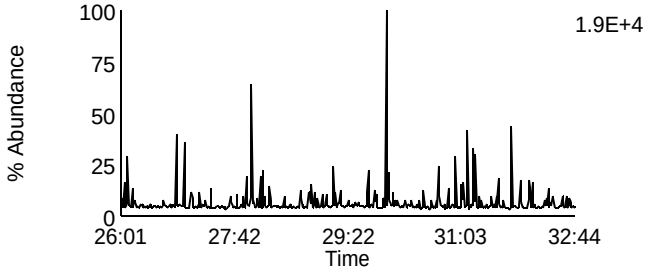
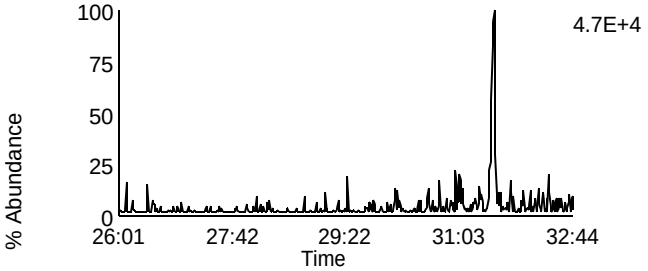
SAMP 10265141003 - SMT WI



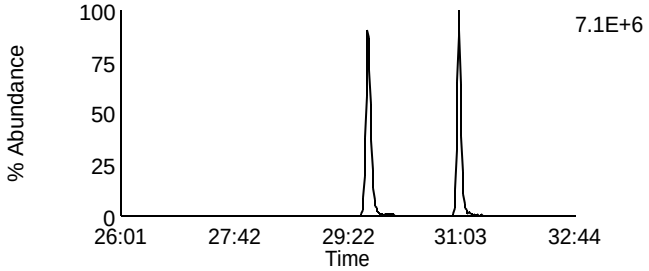
Data File: U140512A_11 G2 C2 - 341.8567
SAMP 10265141003 - SMT WI



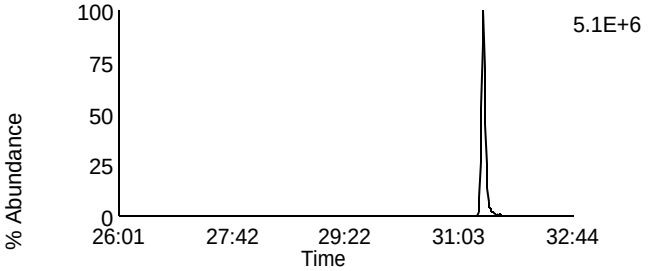
Data File: U140512A_11 G2 C8 - 355.8546
SAMP 10265141003 - SMT WI



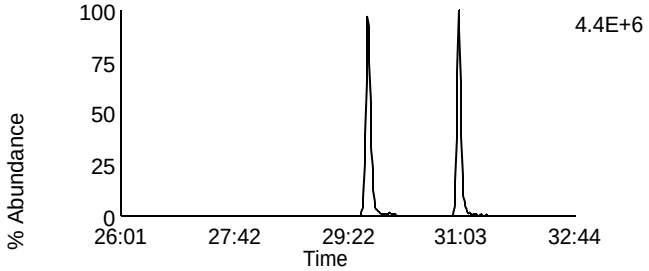
Data File: U140512A_11 G2 C3 - 351.8999
SAMP 10265141003 - SMT WI



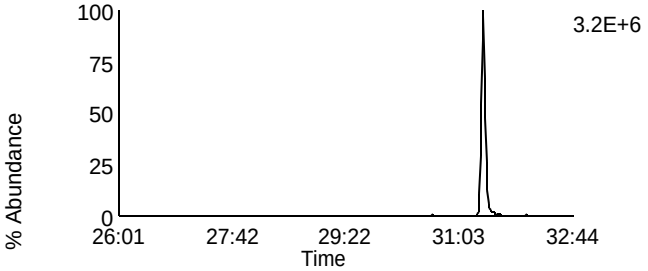
Data File: U140512A_11 G2 C10 - 367.8948
SAMP 10265141003 - SMT WI



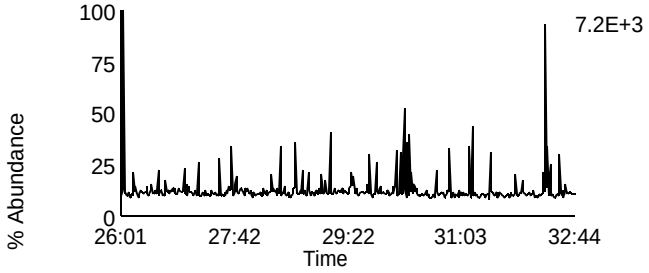
Data File: U140512A_11 G2 C5 - 353.8969
SAMP 10265141003 - SMT WI



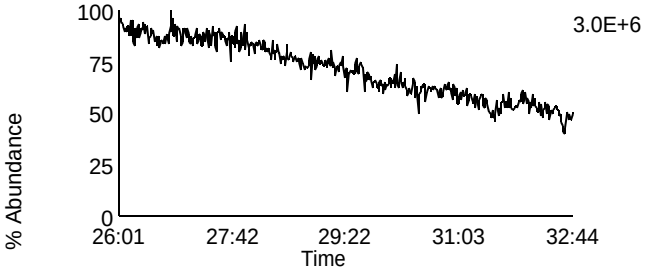
Data File: U140512A_11 G2 C11 - 369.8918
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G2 C12 - 409.7974
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G2 C6 - 354.9792
SAMP 10265141003 - SMT WI

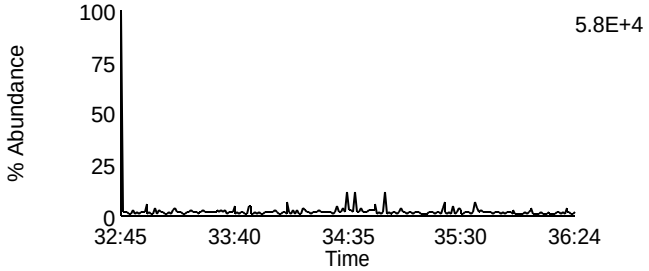


Homologue Group: Hexas

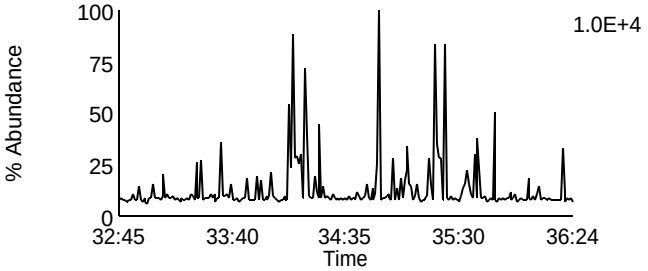
Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

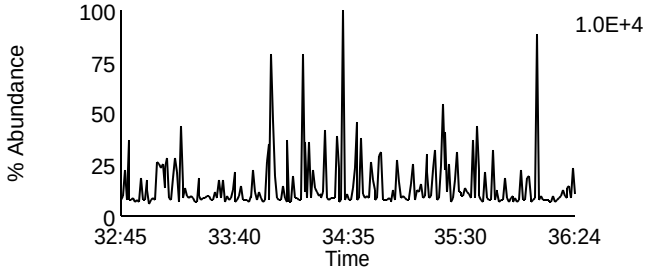
Data File: U140512A_11 G3 C1 - 373.8207
SAMP 10265141003 - SMT WI



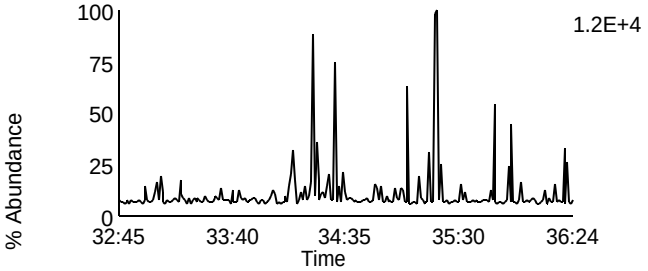
Data File: U140512A_11 G3 C7 - 389.8156
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G3 C2 - 375.8178
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G3 C8 - 391.8127
SAMP 10265141003 - SMT WI



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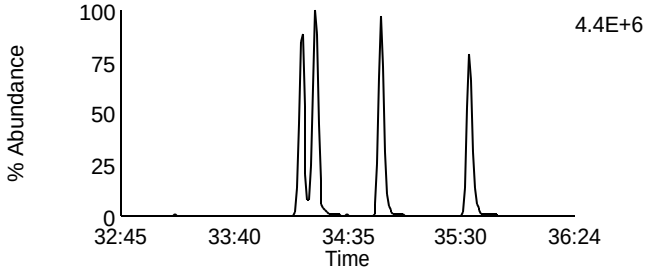
SAMP 10265141003 - SMT WI



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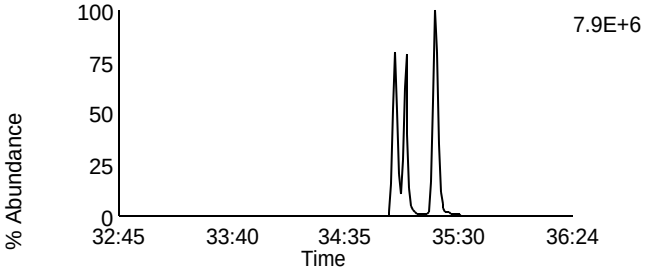
SAMP 10265141003 - SMT WI



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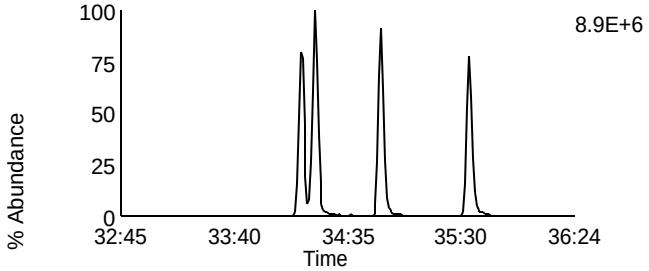
SAMP 10265141003 - SMT WI



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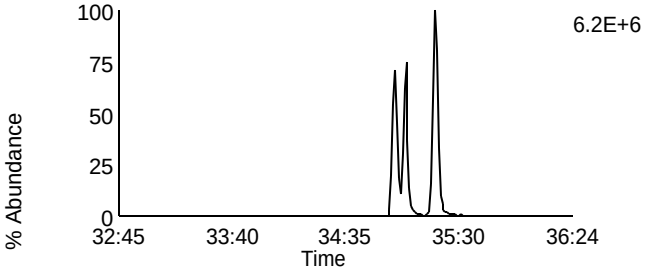
SAMP 10265141003 - SMT WI



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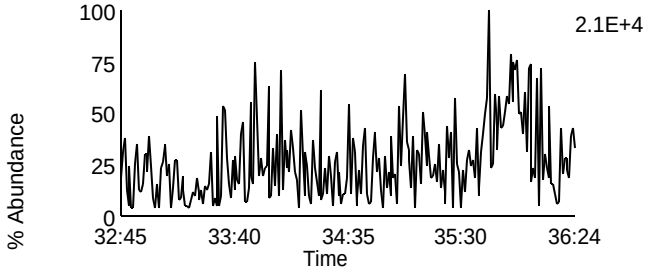
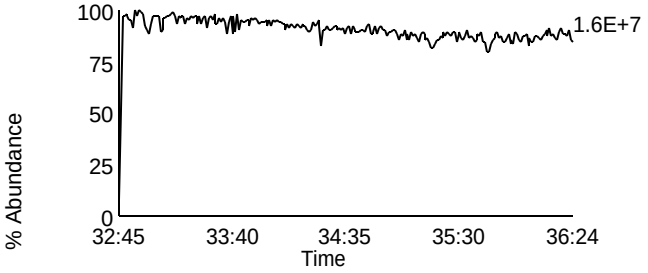
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G3 C3 - 380.976
SAMP 10265141003 - SMT WI

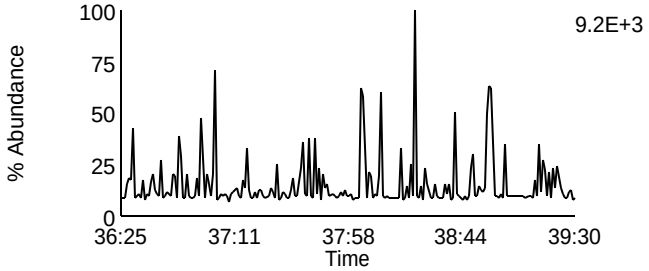


Homologue Group: Heptas

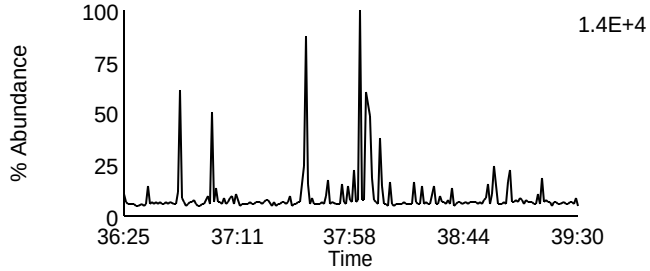
Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

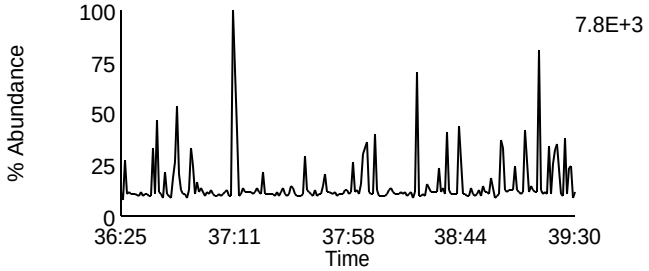
Data File: U140512A_11 G4 C3 - 407.7818
SAMP 10265141003 - SMT WI



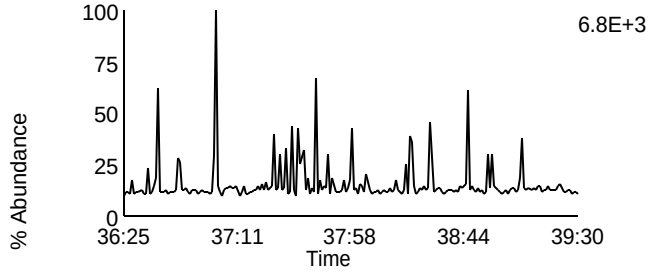
Data File: U140512A_11 G4 C8 - 423.7767
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C4 - 409.7788
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C9 - 425.7737
SAMP 10265141003 - SMT WI



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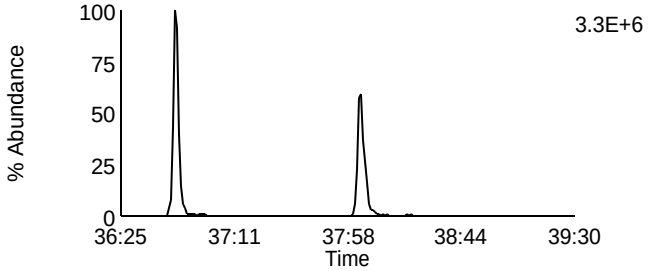
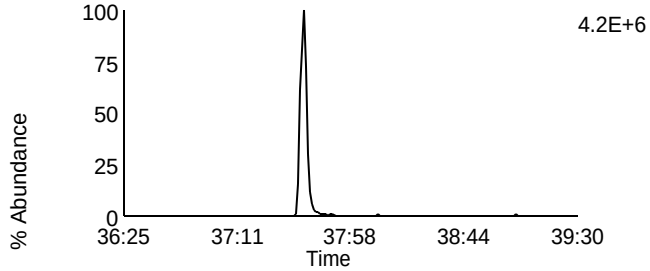
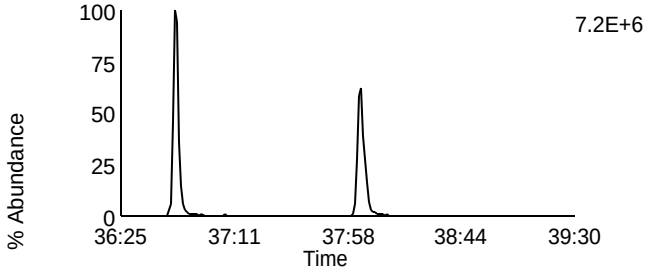
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C11 - 435.8169
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C7 - 419.822
SAMP 10265141003 - SMT WI



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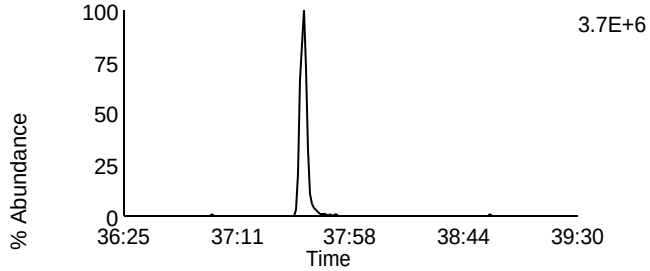
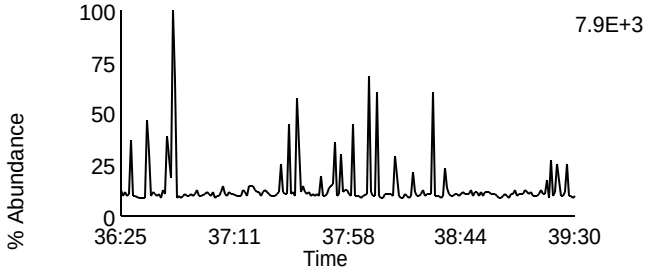
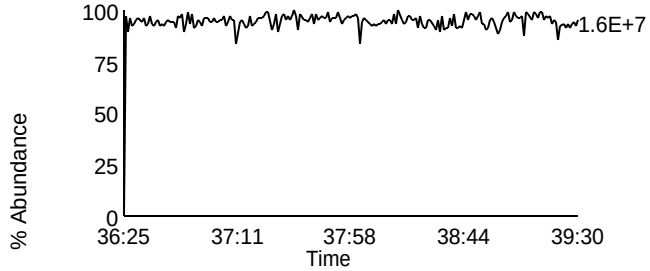
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C13 - 479.7165
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G4 C1 - 380.976
SAMP 10265141003 - SMT WI

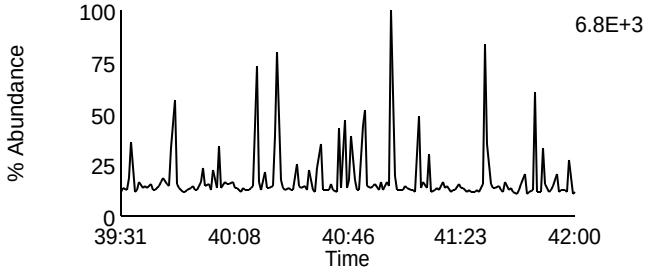


Homologue Group: Octas

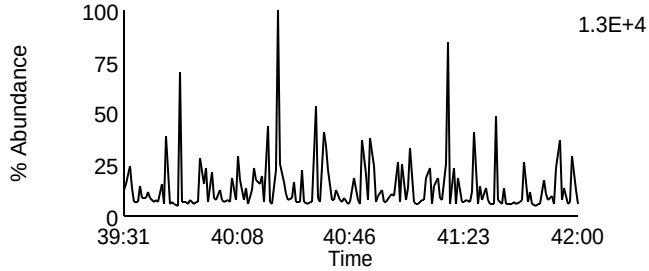
Data File Name: U140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141003 - SMT WI

Lab Sample ID: 10265141003
Client Sample ID: MAK111O
Instrument: 10MSHR06 (U)

Data File: U140512A_11 G5 C4 - 441.7428
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G5 C8 - 457.7377
SAMP 10265141003 - SMT WI



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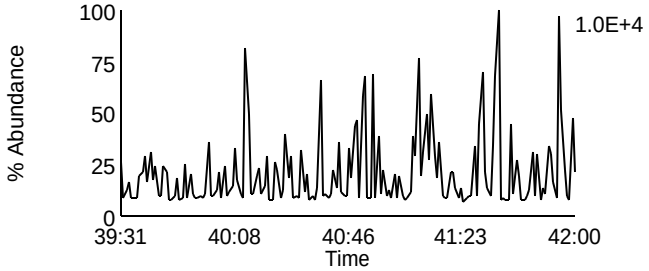
SAMP 10265141003 - SMT WI



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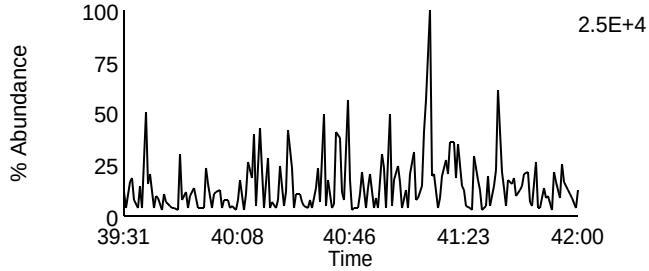
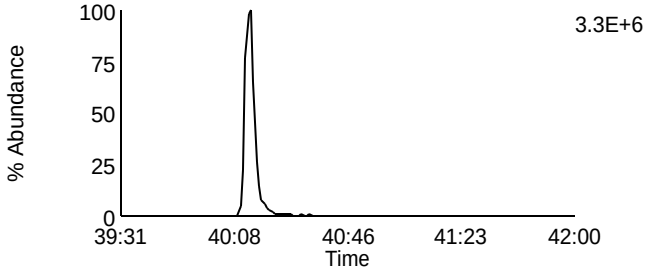
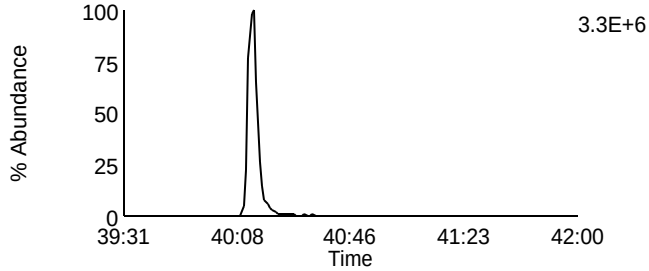
SAMP 10265141003 - SMT WI



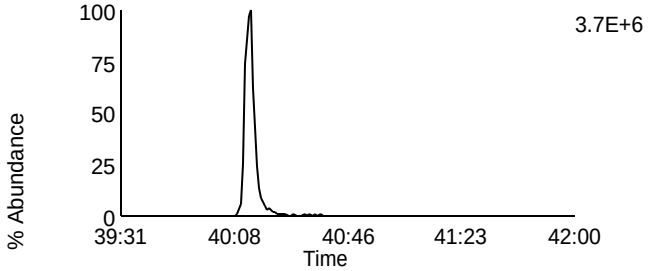
Data File: U140512A_11 G5 C11 - 469.7779
SAMP 10265141003 - SMT WI



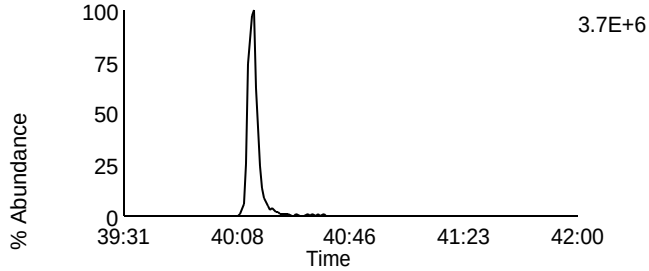
Data File: U140512A_11 G5 C11 - 469.7779
SAMP 10265141003 - SMT WI



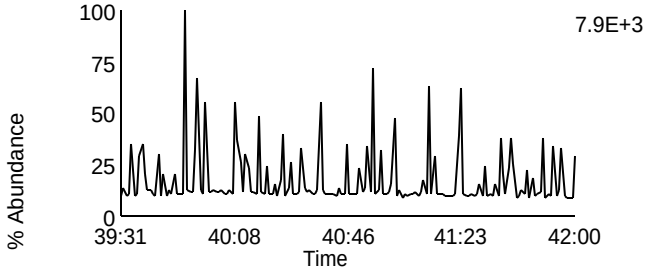
Data File: U140512A_11 G5 C12 - 471.7749
SAMP 10265141003 - SMT WI



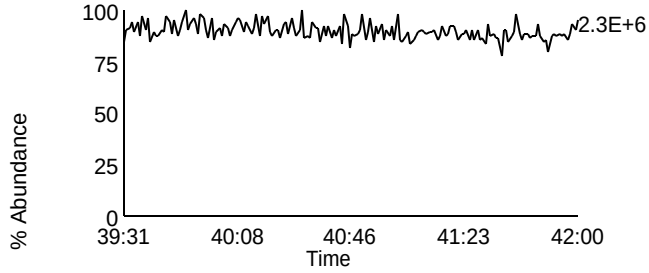
Data File: U140512A_11 G5 C12 - 471.7749
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G5 C13 - 513.6775
SAMP 10265141003 - SMT WI



Data File: U140512A_11 G5 C2 - 430.9728
SAMP 10265141003 - SMT WI

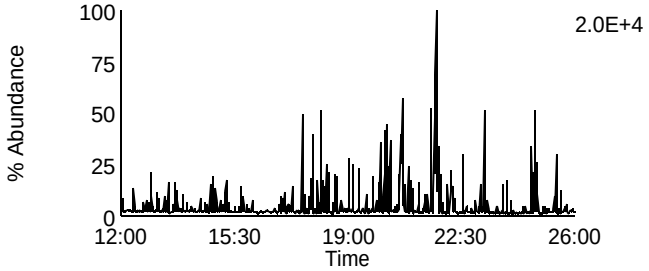


Homologue Group: Tetras

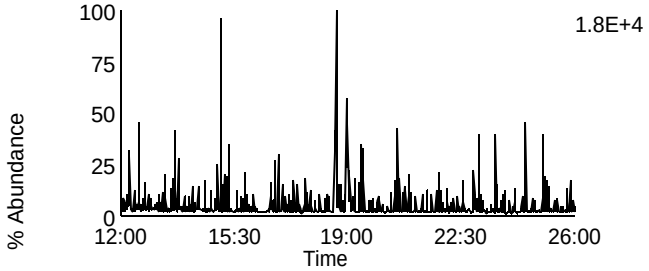
Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

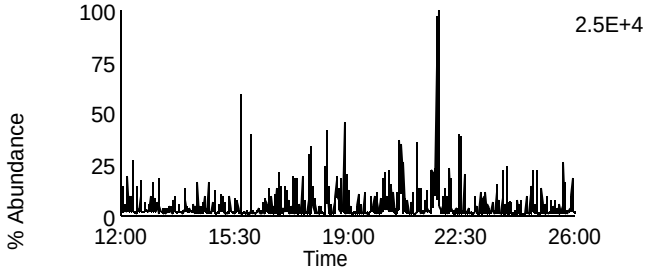
Data File: U140512A_12 G1 C1 - 303.9016
SAMP 10265141004 - SMT WI



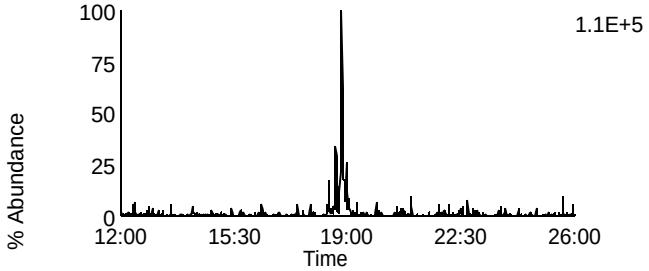
Data File: U140512A_12 G1 C7 - 319.8965
SAMP 10265141004 - SMT WI



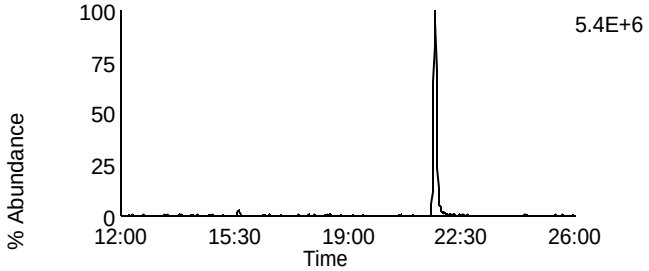
Data File: U140512A_12 G1 C2 - 305.8987
SAMP 10265141004 - SMT WI



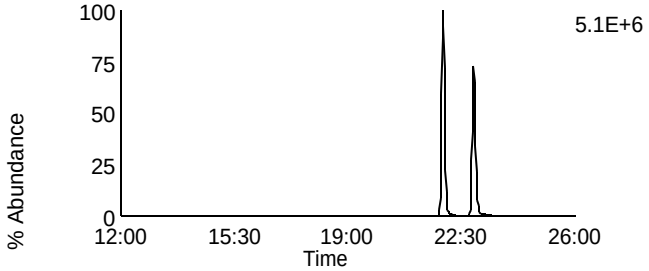
Data File: U140512A_12 G1 C8 - 321.8936
SAMP 10265141004 - SMT WI



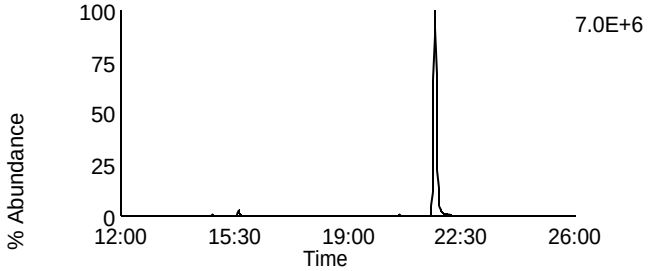
Data File: U140512A_12 G1 C3 - 315.9418
SAMP 10265141004 - SMT WI



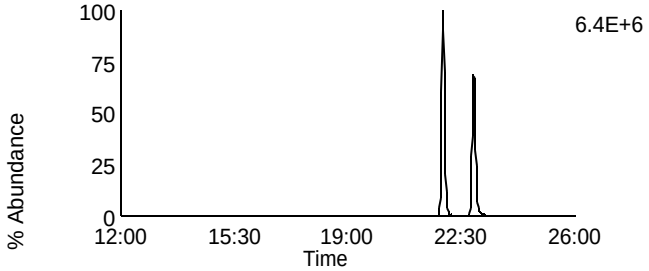
Data File: U140512A_12 G1 C10 - 331.9367
SAMP 10265141004 - SMT WI



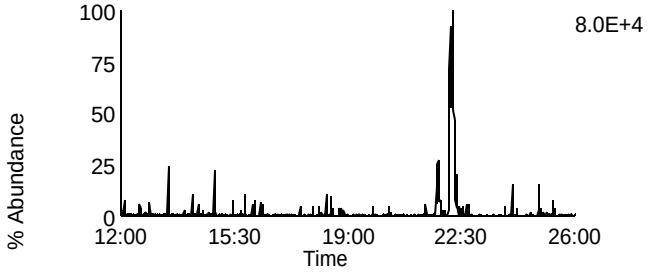
Data File: U140512A_12 G1 C4 - 317.9389
SAMP 10265141004 - SMT WI



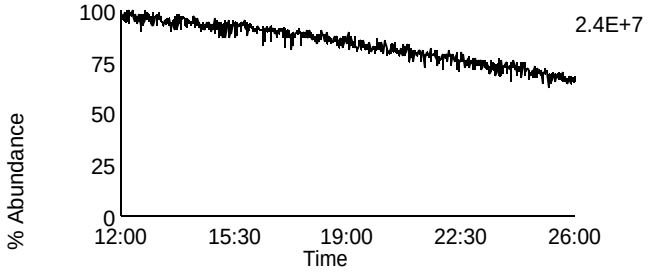
Data File: U140512A_12 G1 C11 - 333.9338
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G1 C14 - 375.8364
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G1 C5 - 318.9792
SAMP 10265141004 - SMT WI

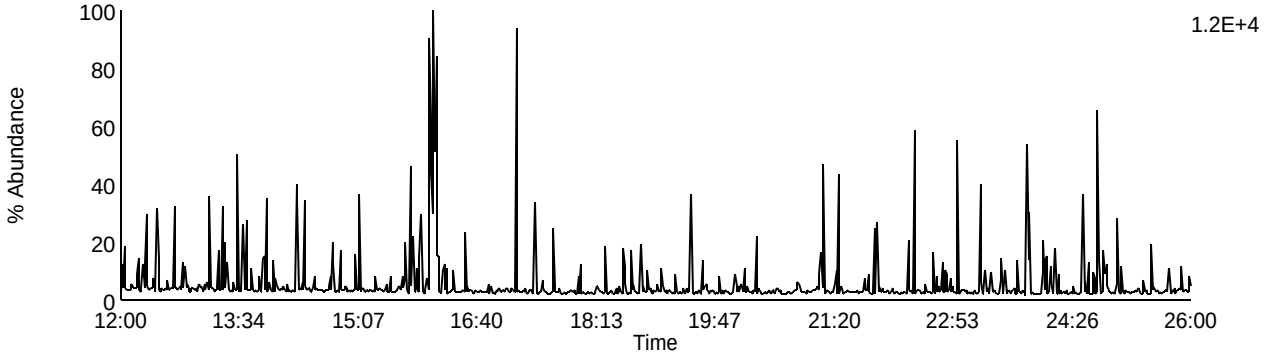


Homologue Group: Penta & Cleanup

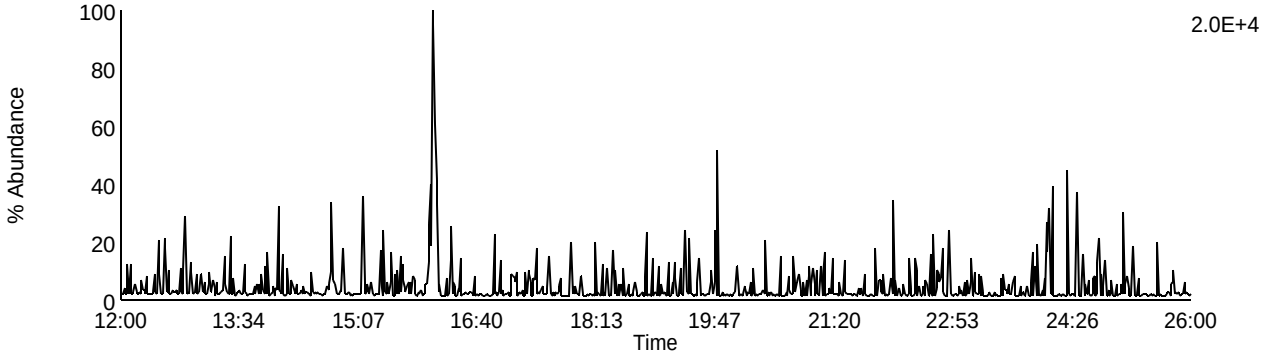
Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

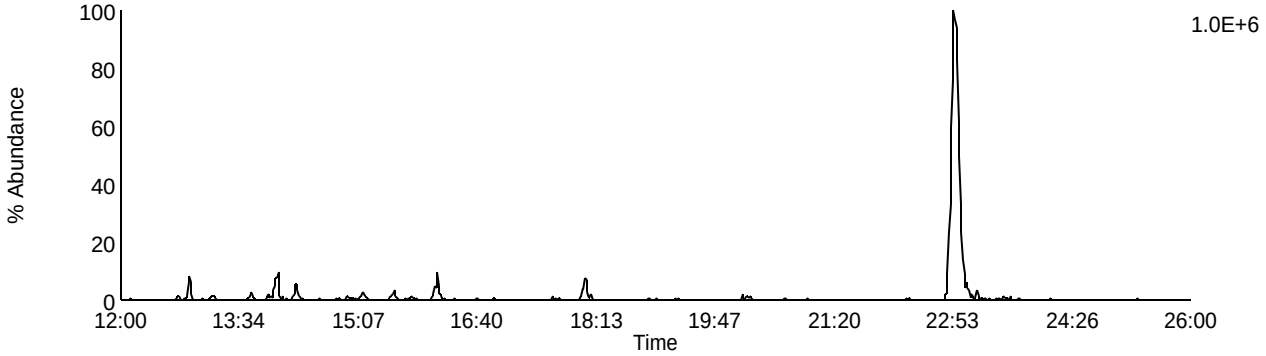
Data File: U140512A_12 G1 C12 - 339.8597
SAMP 10265141004 - SMT WI



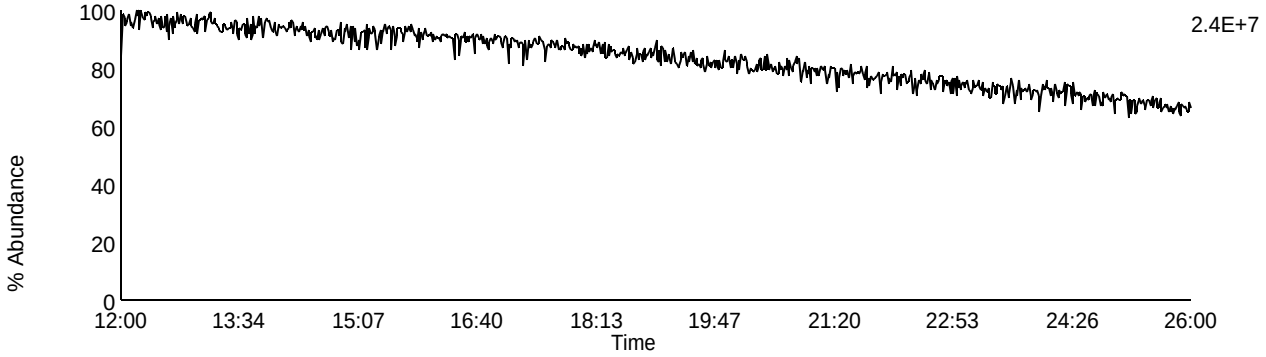
Data File: U140512A_12 G1 C13 - 341.8567
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G1 C9 - 327.8847
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G1 C5 - 318.9792
SAMP 10265141004 - SMT WI

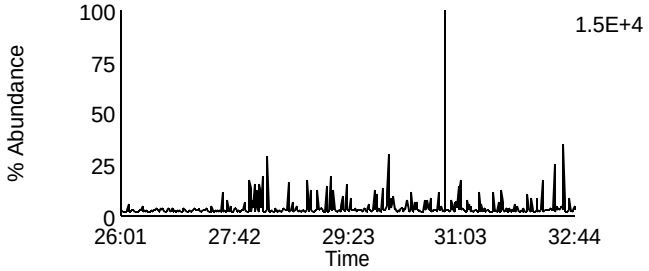


Homologue Group: Pentas

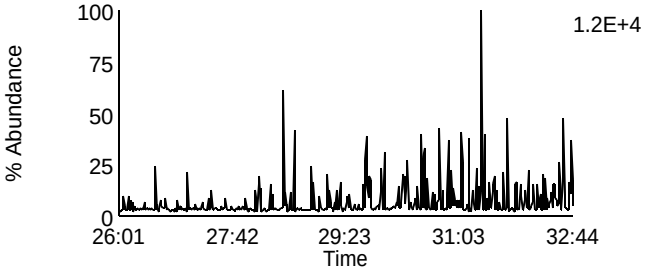
Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

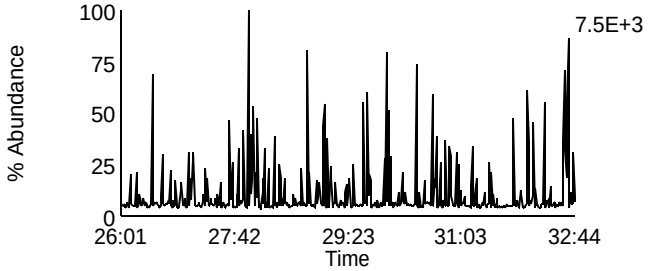
Data File: U140512A_12 G2 C1 - 339.8597
SAMP 10265141004 - SMT WI



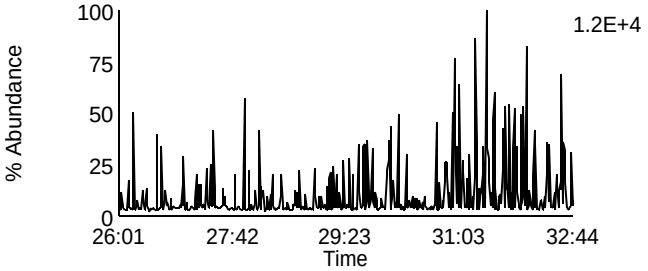
Data File: U140512A_12 G2 C4 - 353.8576
SAMP 10265141004 - SMT WI



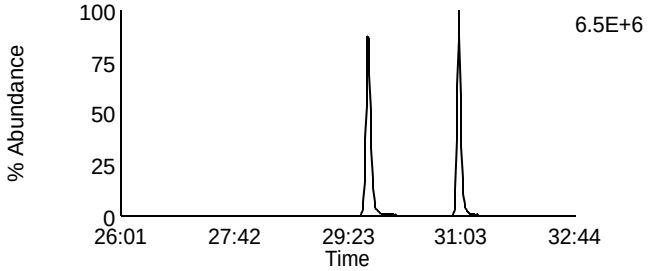
Data File: U140512A_12 G2 C2 - 341.8567
SAMP 10265141004 - SMT WI



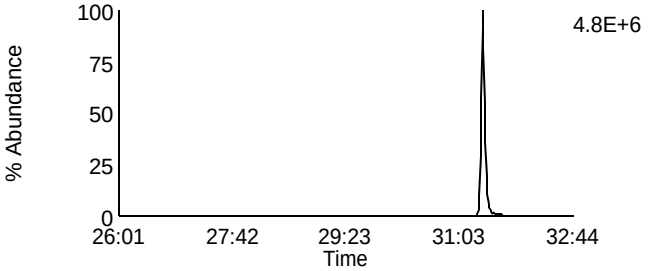
Data File: U140512A_12 G2 C8 - 355.8546
SAMP 10265141004 - SMT WI



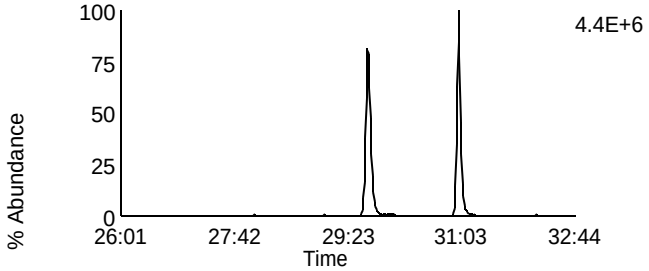
Data File: U140512A_12 G2 C3 - 351.8999
SAMP 10265141004 - SMT WI



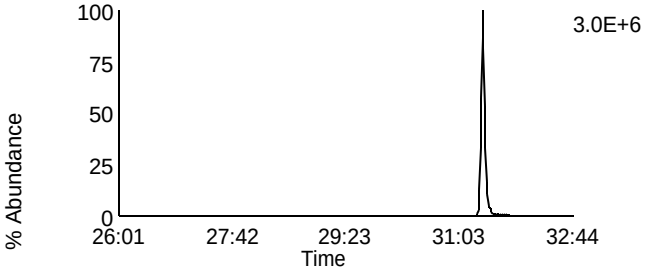
Data File: U140512A_12 G2 C10 - 367.8948
SAMP 10265141004 - SMT WI



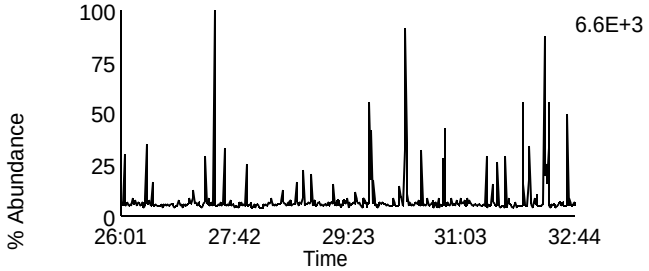
Data File: U140512A_12 G2 C5 - 353.8969
SAMP 10265141004 - SMT WI



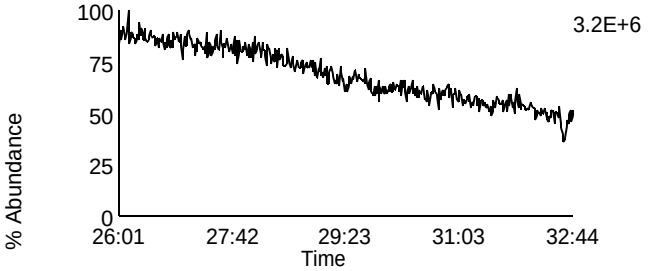
Data File: U140512A_12 G2 C11 - 369.8918
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G2 C12 - 409.7974
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G2 C6 - 354.9792
SAMP 10265141004 - SMT WI

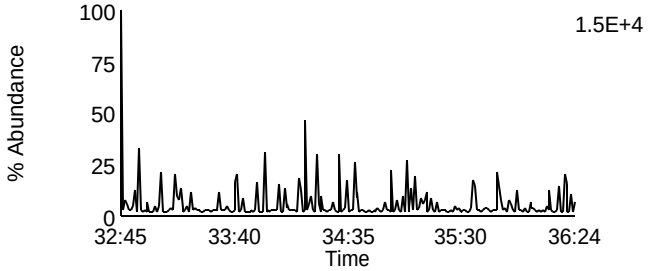


Homologue Group: Hexas

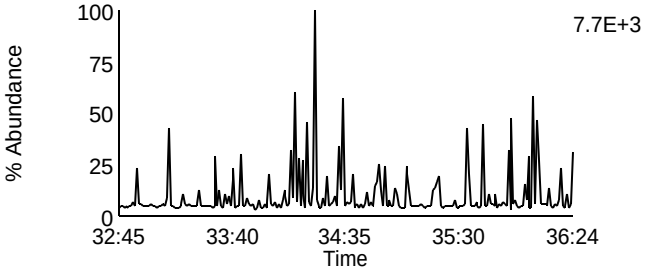
Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

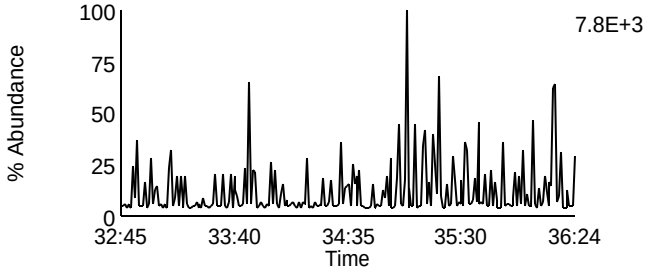
Data File: U140512A_12 G3 C1 - 373.8207
SAMP 10265141004 - SMT WI



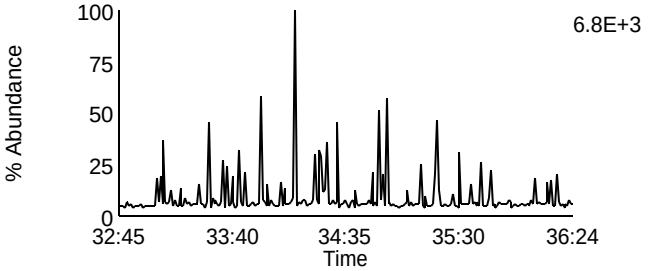
Data File: U140512A_12 G3 C7 - 389.8156
SAMP 10265141004 - SMT WI



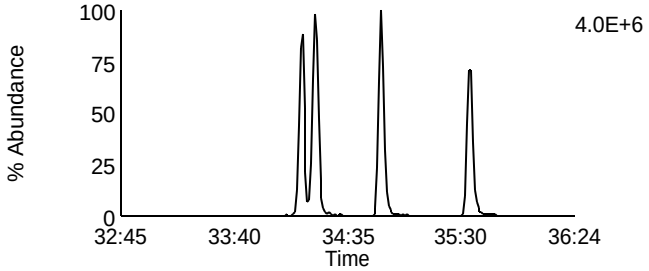
Data File: U140512A_12 G3 C2 - 375.8178
SAMP 10265141004 - SMT WI



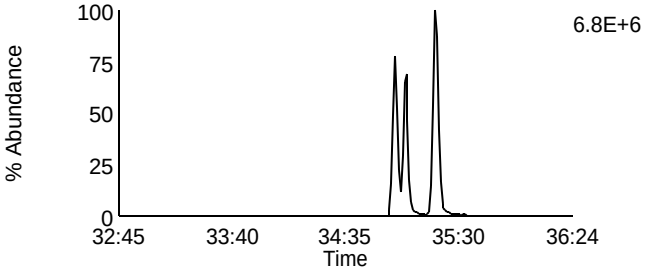
Data File: U140512A_12 G3 C8 - 391.8127
SAMP 10265141004 - SMT WI



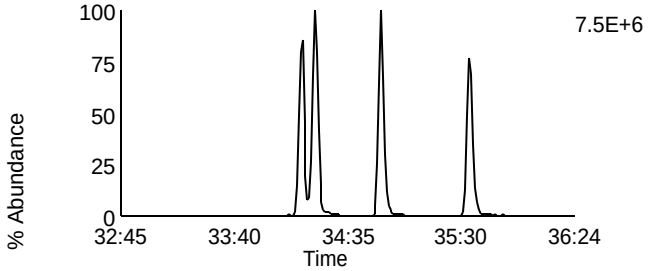
Data File: U140512A_12 G3 C5 - 383.8639
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G3 C9 - 401.8559
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G3 C6 - 385.861
SAMP 10265141004 - SMT WI



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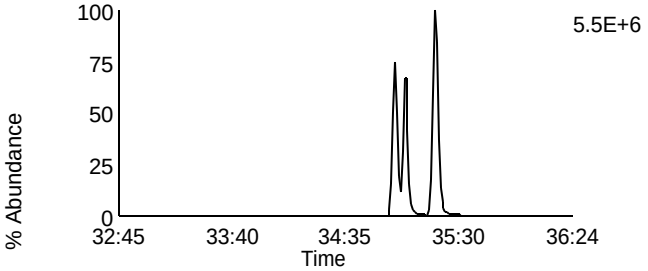
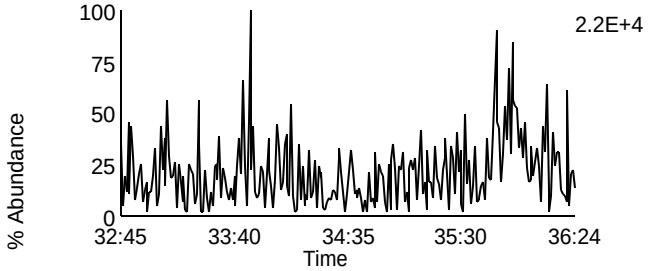
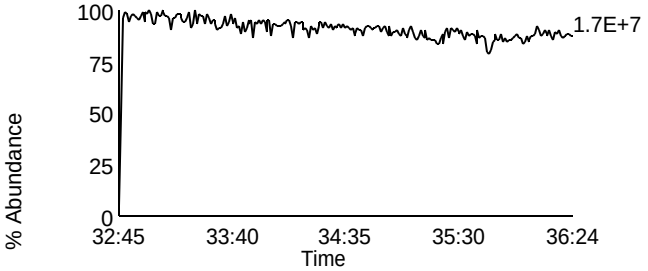
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G3 C11 - 445.7555
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G3 C3 - 380.976
SAMP 10265141004 - SMT WI

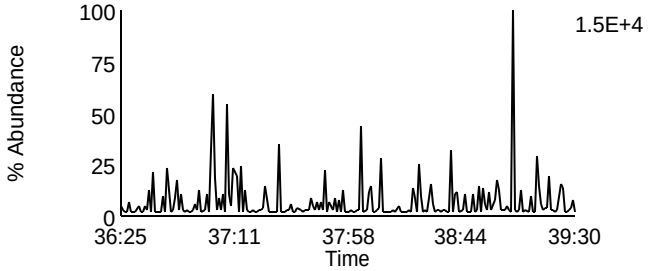


Homologue Group: Heptas

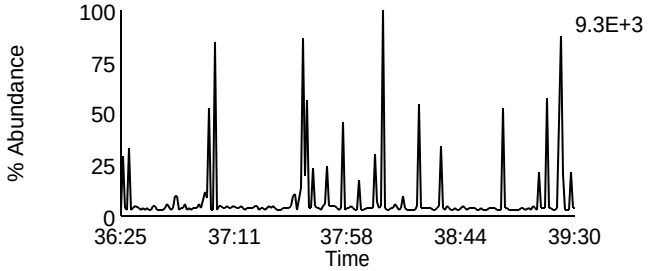
Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

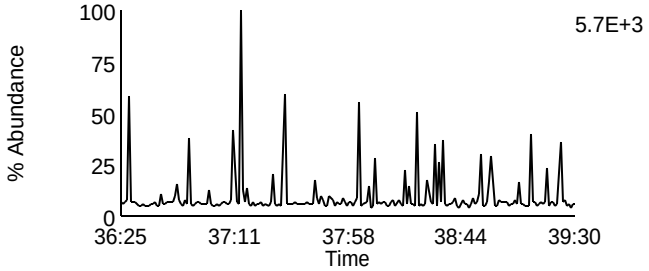
Data File: U140512A_12 G4 C3 - 407.7818
SAMP 10265141004 - SMT WI



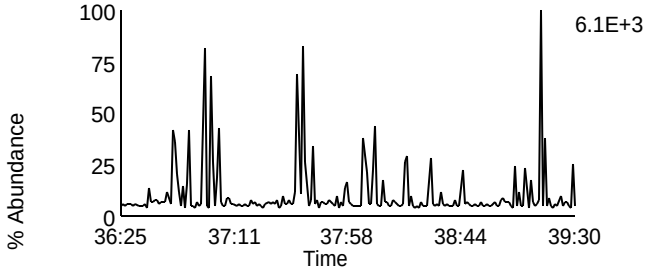
Data File: U140512A_12 G4 C8 - 423.7767
SAMP 10265141004 - SMT WI



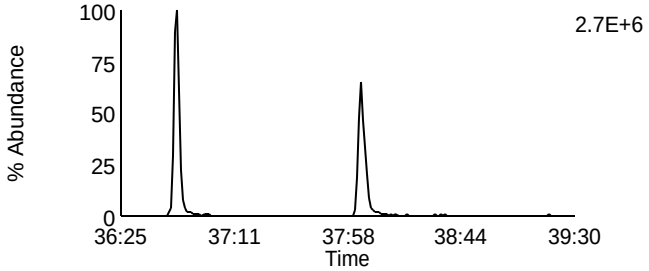
Data File: U140512A_12 G4 C4 - 409.7788
SAMP 10265141004 - SMT WI



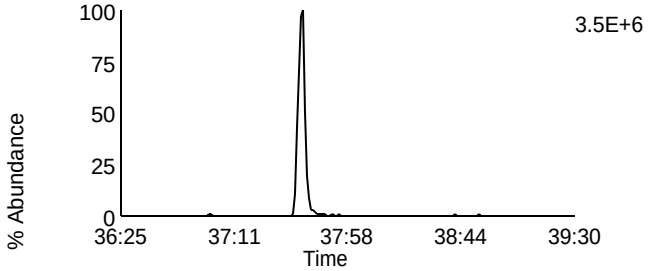
Data File: U140512A_12 G4 C9 - 425.7737
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G4 C6 - 417.825
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G4 C11 - 435.8169
SAMP 10265141004 - SMT WI



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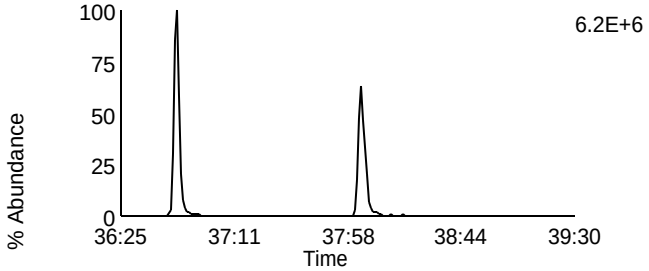
SAMP 10265141004 - SMT WI



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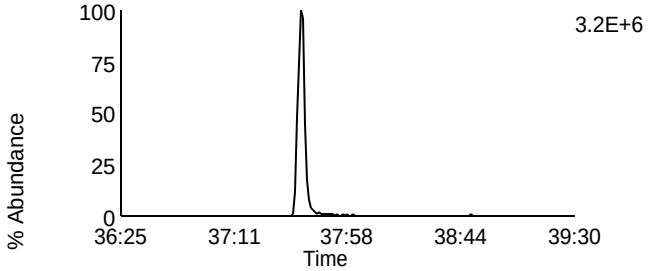
SAMP 10265141004 - SMT WI



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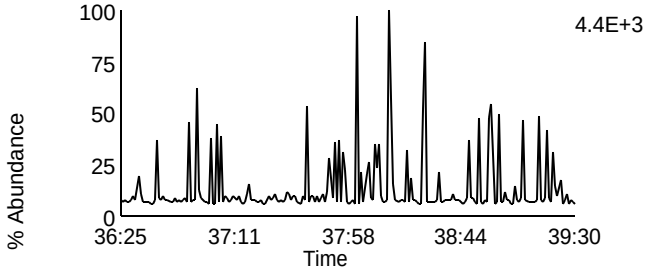
SAMP 10265141004 - SMT WI



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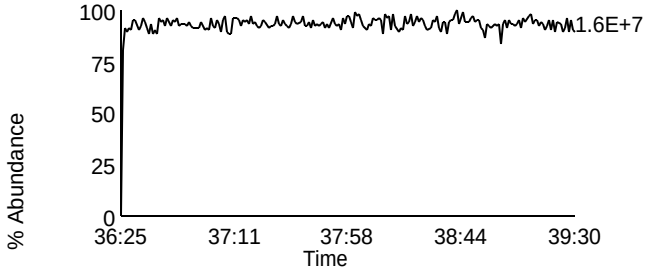
SAMP 10265141004 - SMT WI

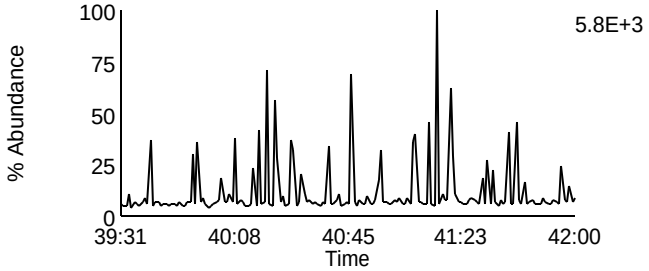


Homologue Group: Octas

Data File Name: U140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141004 - SMT WI

Lab Sample ID: 10265141004
Client Sample ID: MAK112O
Instrument: 10MSHR06 (U)

Data File: U140512A_12 G5 C4 - 441.7428
SAMP 10265141004 - SMT WI



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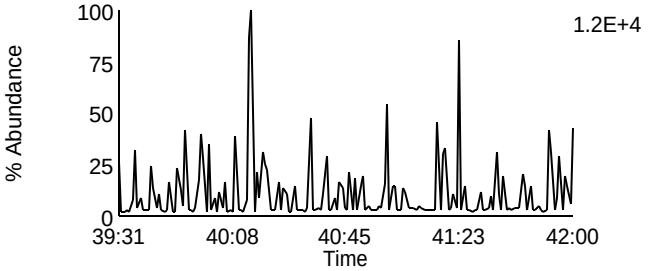
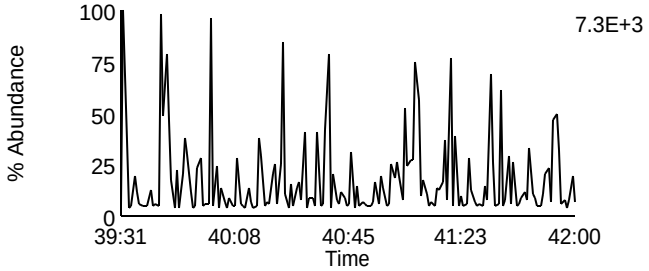
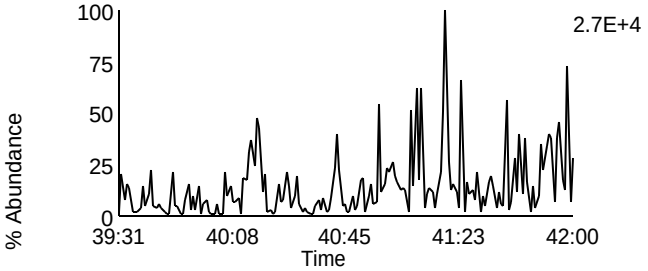
SAMP 10265141004 - SMT WI



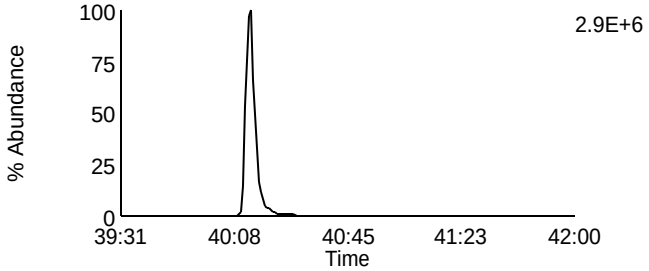
Data File: U140512A_12 G5 C5 - 443.7398
SAMP 10265141004 - SMT WI



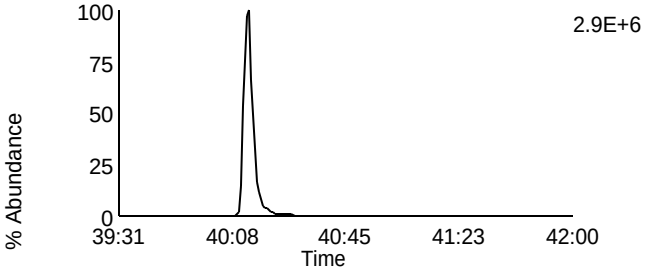
Data File: U140512A_12 G5 C9 - 459.7347
SAMP 10265141004 - SMT WI



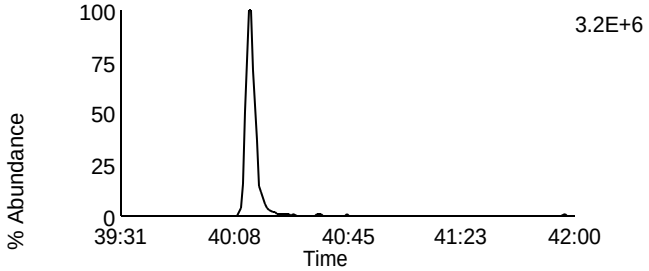
Data File: U140512A_12 G5 C11 - 469.7779
SAMP 10265141004 - SMT WI



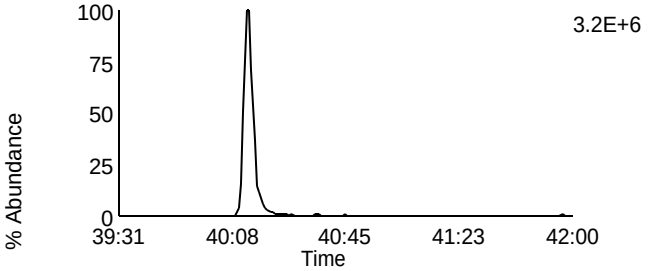
Data File: U140512A_12 G5 C11 - 469.7779
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G5 C12 - 471.7749
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G5 C12 - 471.7749
SAMP 10265141004 - SMT WI



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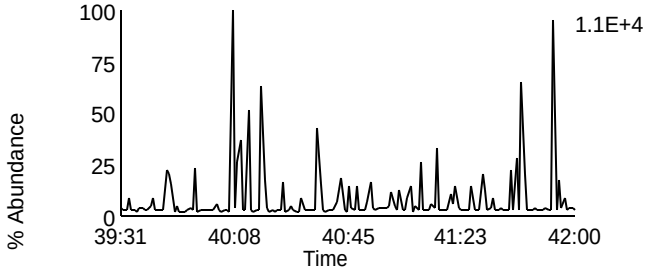
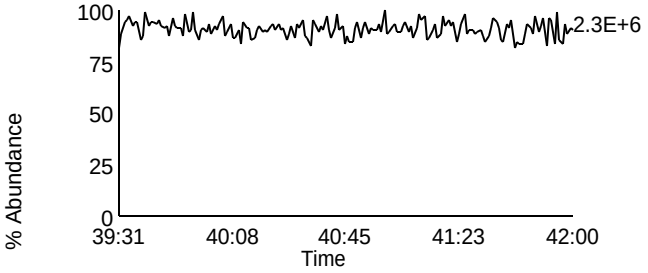
SAMP 10265141004 - SMT WI



Data File: U140512A_12 G5 C2 - 430.9728
SAMP 10265141004 - SMT WI

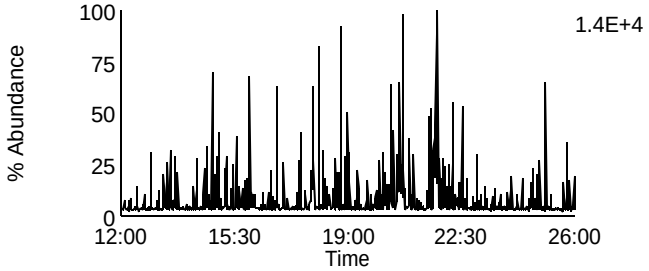


Homologue Group: Tetras

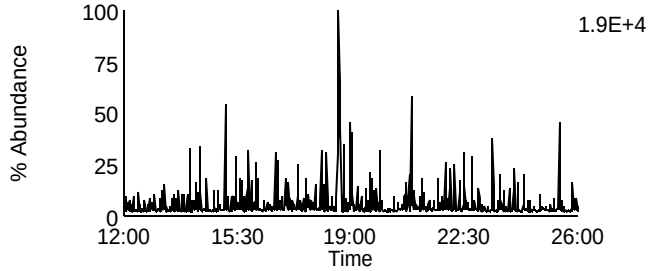
Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

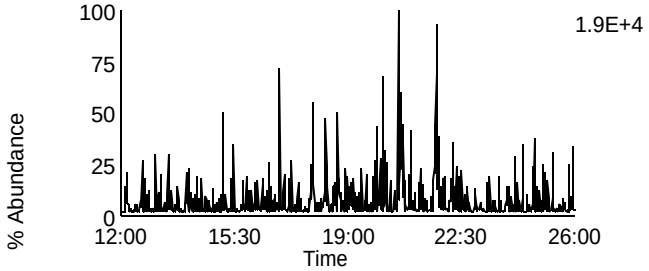
Data File: U140512A_13 G1 C1 - 303.9016
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C7 - 319.8965
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C2 - 305.8987
SAMP 10265141005 - SMT WI



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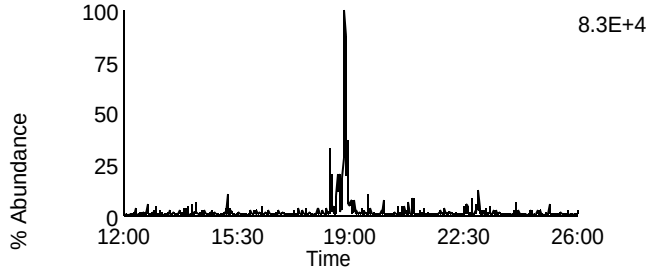
SAMP 10265141005 - SMT WI



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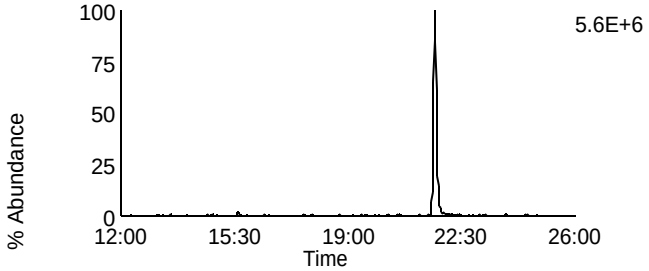
SAMP 10265141005 - SMT WI



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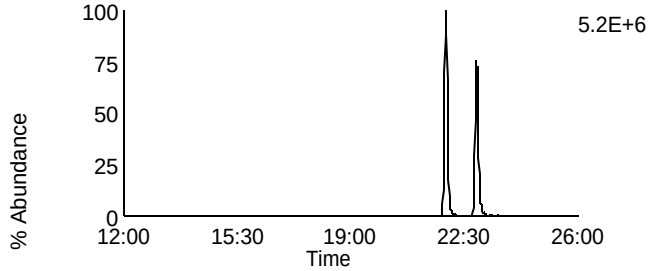
SAMP 10265141005 - SMT WI



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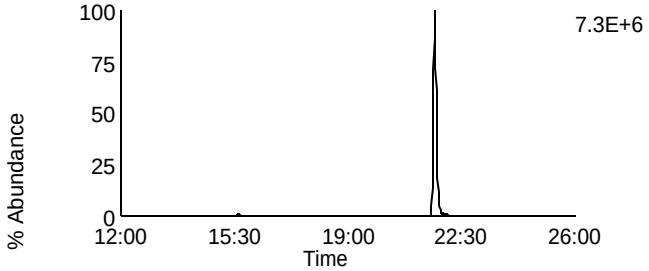
SAMP 10265141005 - SMT WI



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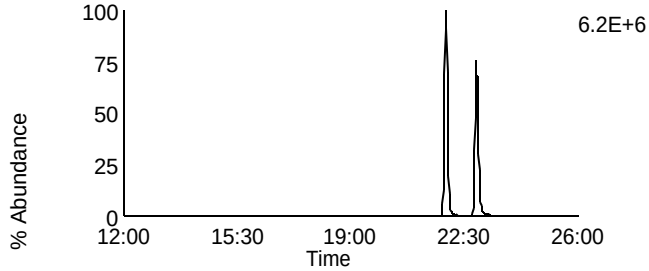
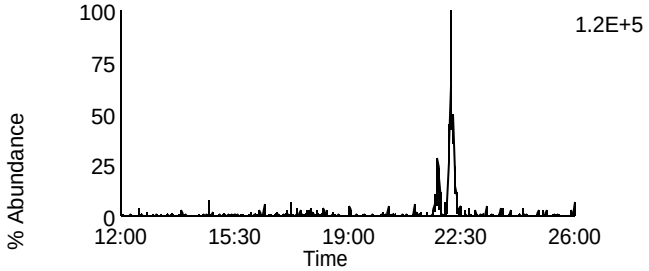
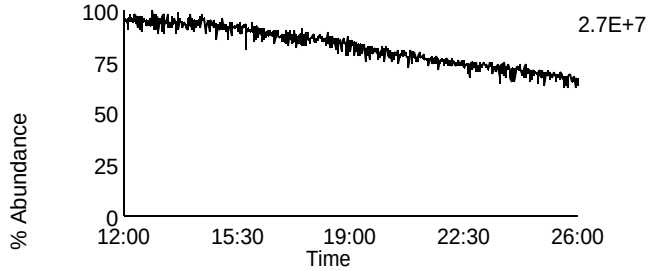
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C14 - 375.8364
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C5 - 318.9792
SAMP 10265141005 - SMT WI

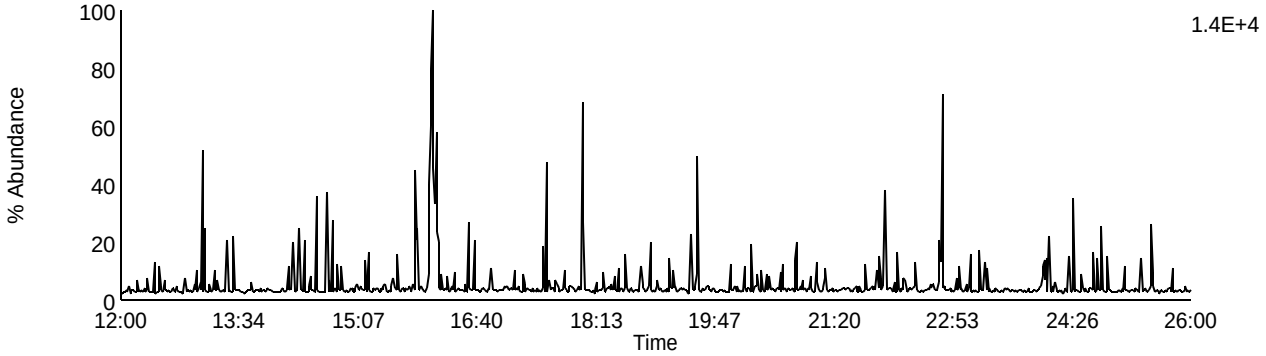


Homologue Group: Penta & Cleanup

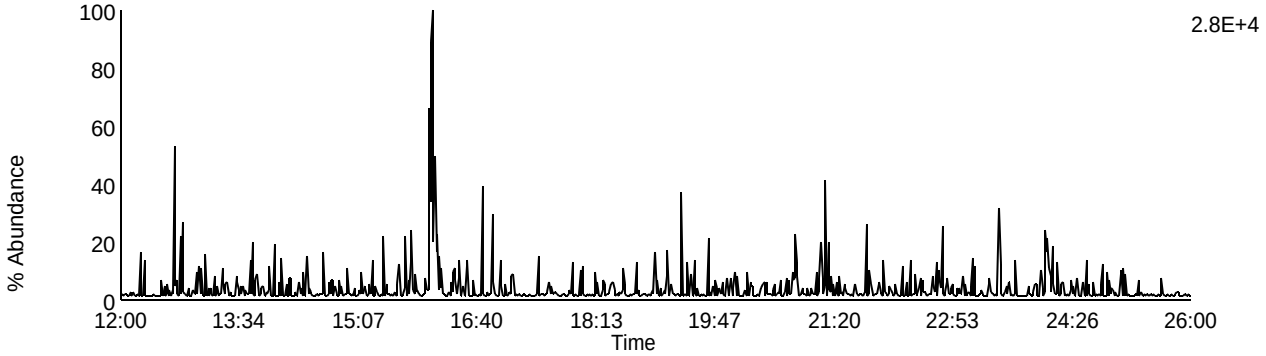
Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

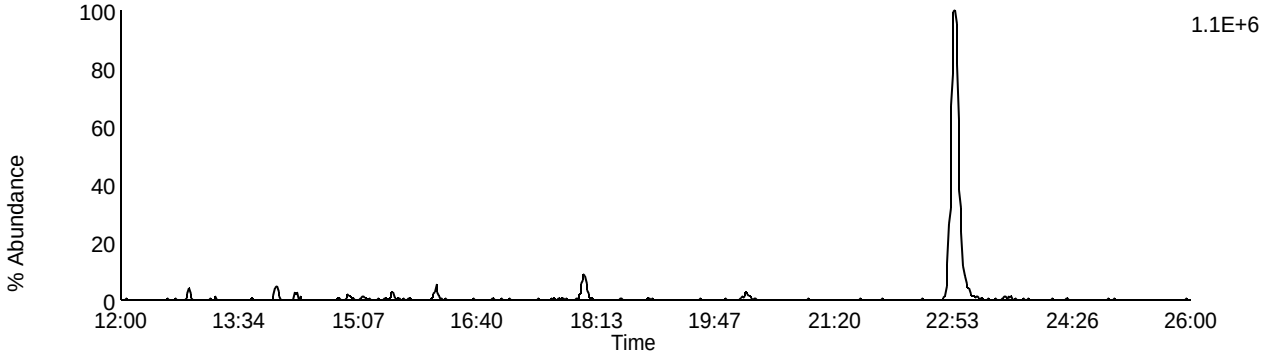
Data File: U140512A_13 G1 C12 - 339.8597
SAMP 10265141005 - SMT WI



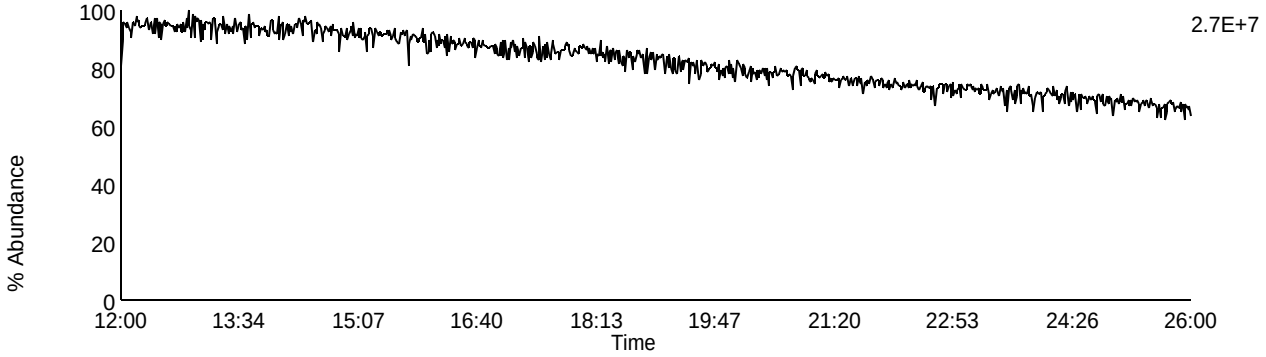
Data File: U140512A_13 G1 C13 - 341.8567
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C9 - 327.8847
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G1 C5 - 318.9792
SAMP 10265141005 - SMT WI

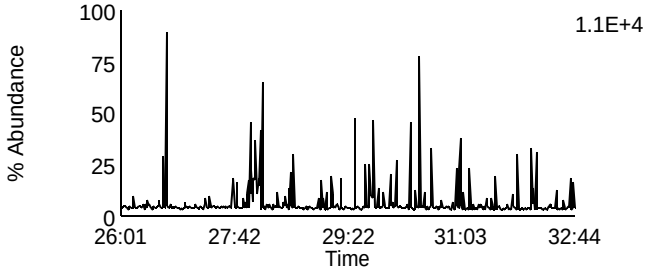


Homologue Group: Pentas

Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

Data File: U140512A_13 G2 C1 - 339.8597
SAMP 10265141005 - SMT WI



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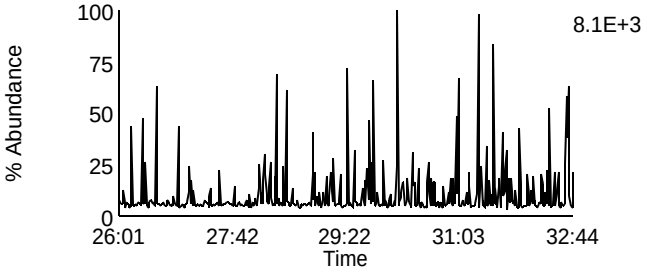
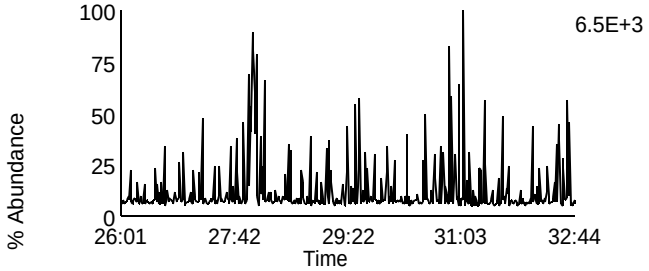
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G2 C2 - 341.8567
SAMP 10265141005 - SMT WI



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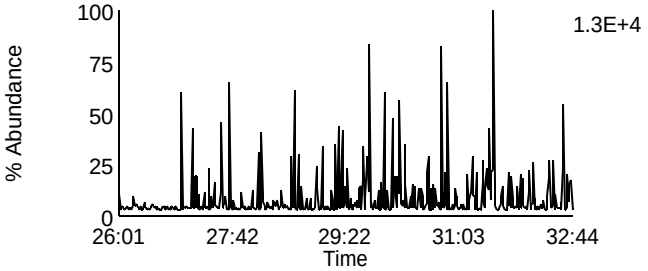
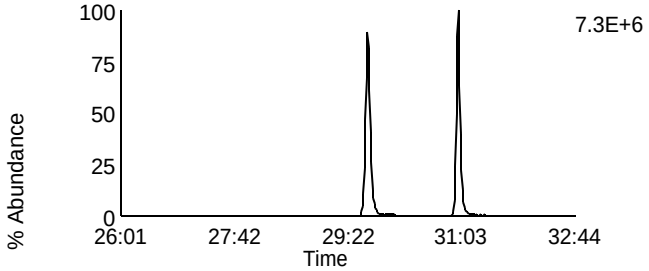
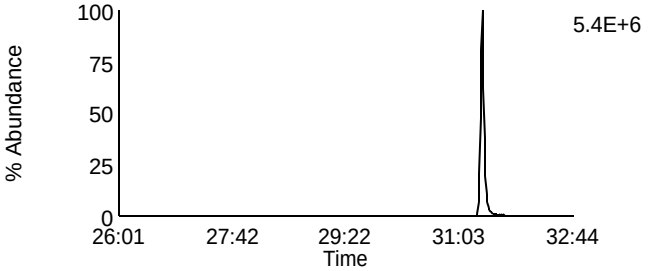
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G2 C3 - 351.8999
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G2 C10 - 367.8948
SAMP 10265141005 - SMT WI



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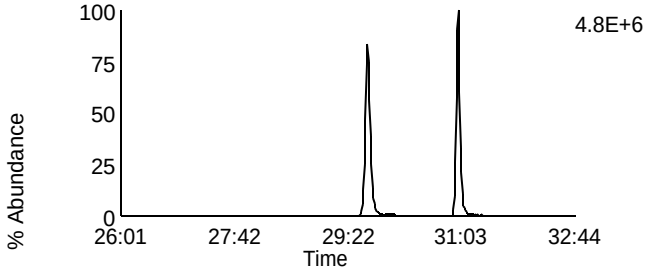
SAMP 10265141005 - SMT WI



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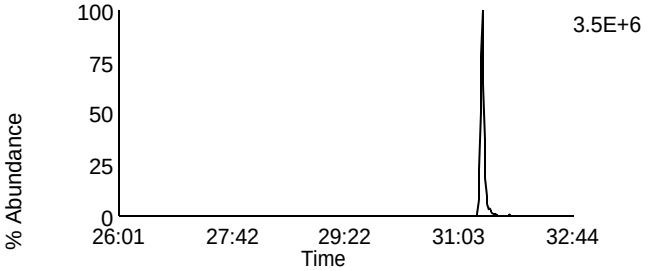
SAMP 10265141005 - SMT WI



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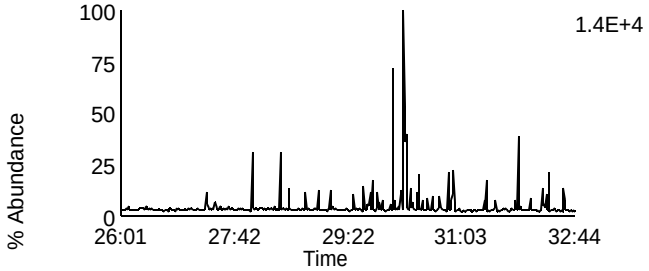
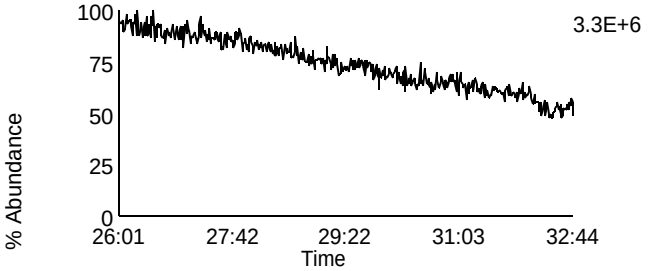
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G2 C6 - 354.9792
SAMP 10265141005 - SMT WI

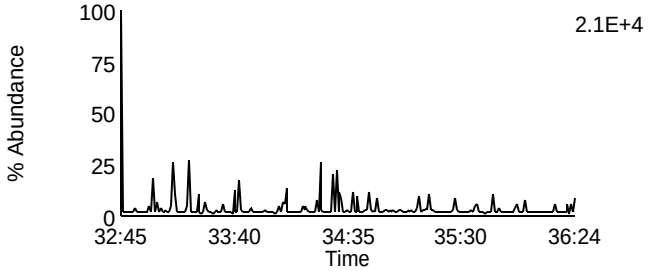


Homologue Group: Hexas

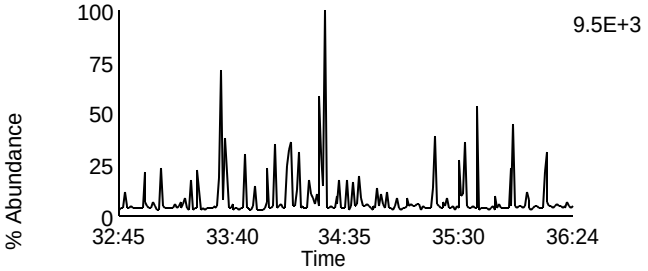
Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

Data File: U140512A_13 G3 C1 - 373.8207
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G3 C7 - 389.8156
SAMP 10265141005 - SMT WI



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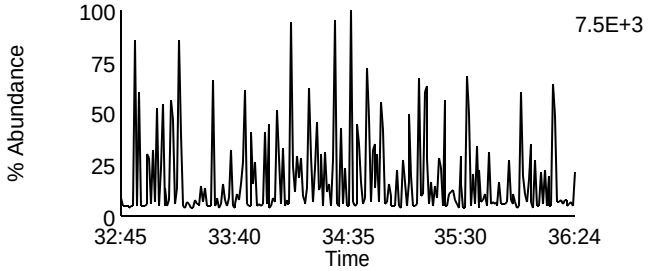
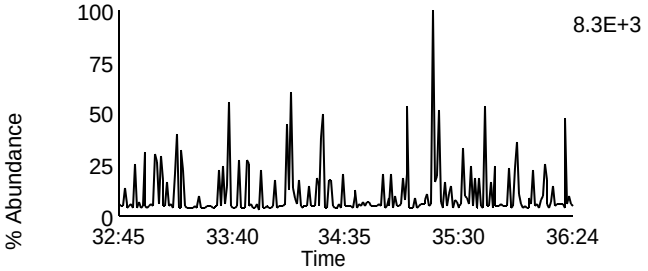
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G3 C8 - 391.8127
SAMP 10265141005 - SMT WI



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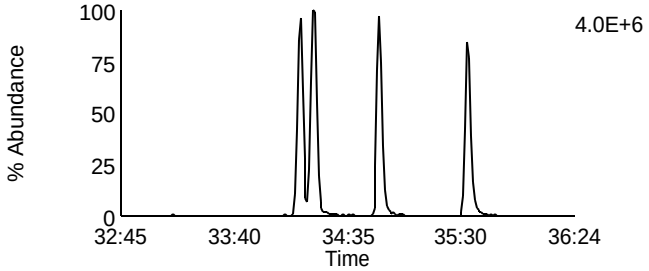
SAMP 10265141005 - SMT WI



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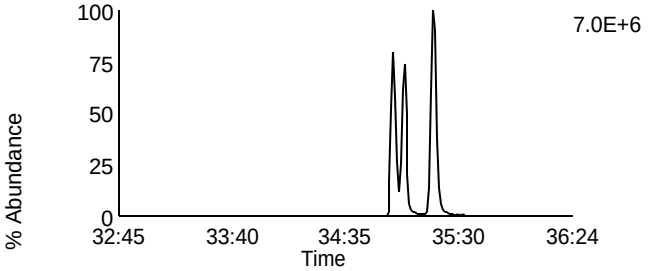
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G3 C6 - 385.861
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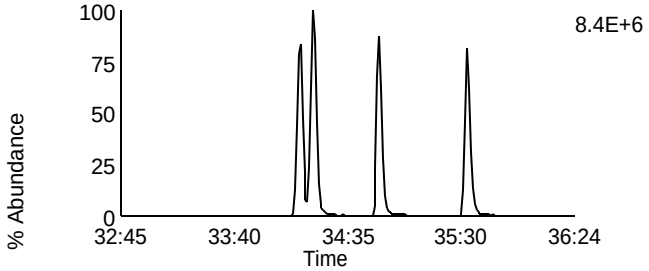
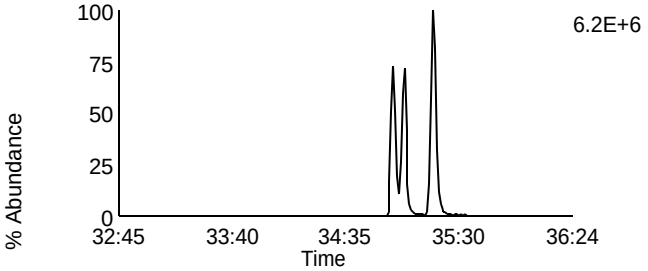


Data File: U140512A_13 G3 C10 - 403.8529
SAMP 10265141005 - SMT WI



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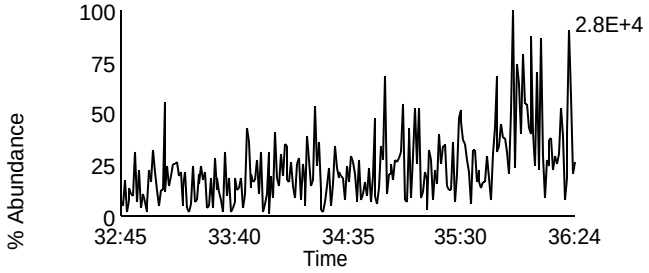
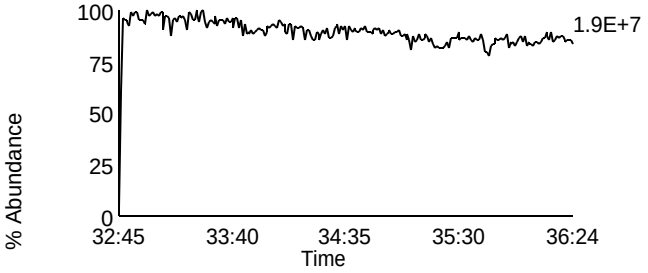
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G3 C3 - 380.976
SAMP 10265141005 - SMT WI

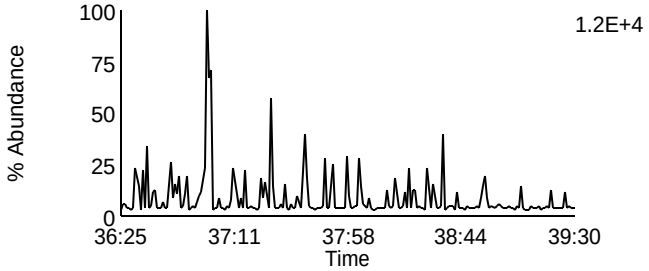


Homologue Group: Heptas

Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

Data File: U140512A_13 G4 C3 - 407.7818
SAMP 10265141005 - SMT WI



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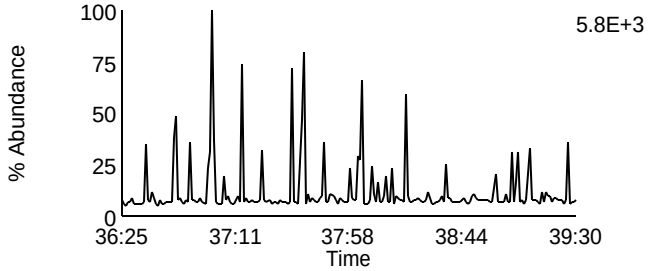
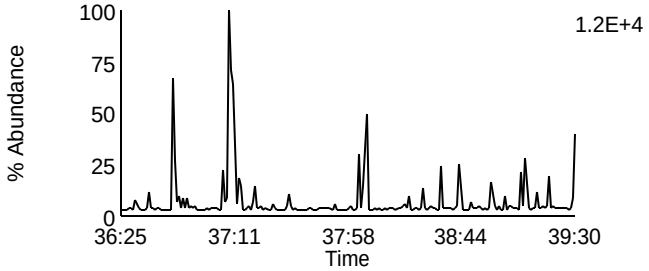
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G4 C4 - 409.7788
SAMP 10265141005 - SMT WI



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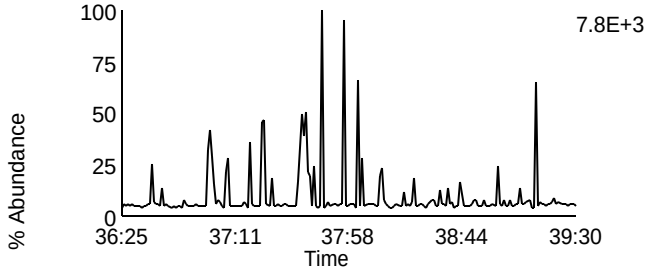
SAMP 10265141005 - SMT WI



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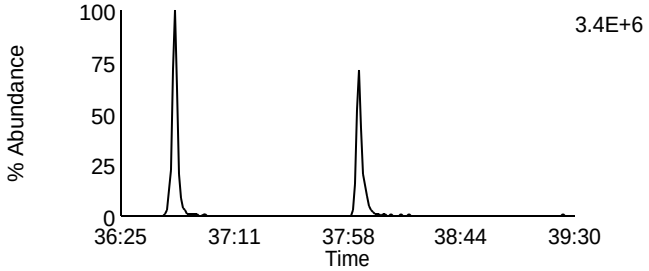
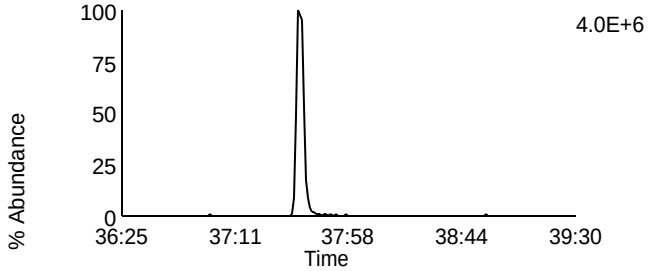
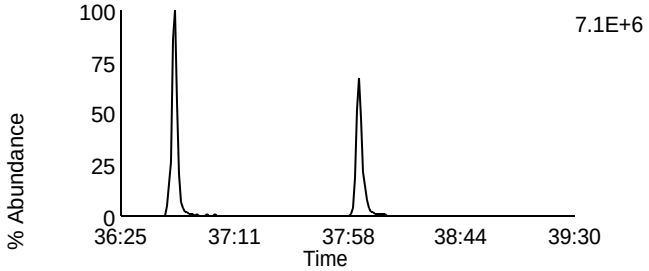
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G4 C11 - 435.8169
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G4 C7 - 419.822
SAMP 10265141005 - SMT WI



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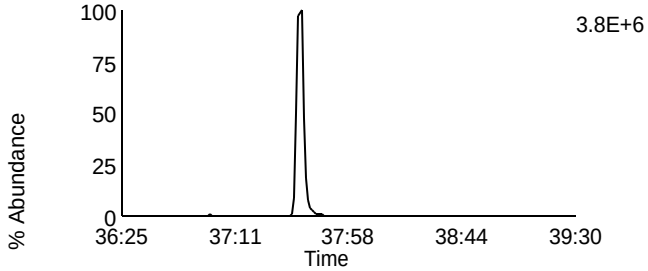
SAMP 10265141005 - SMT WI



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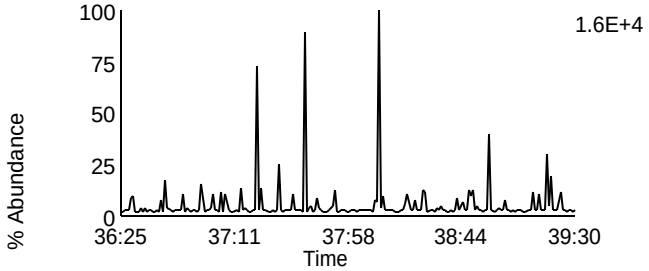
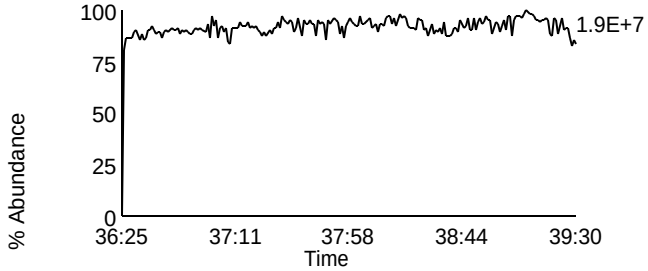
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G4 C1 - 380.976
SAMP 10265141005 - SMT WI

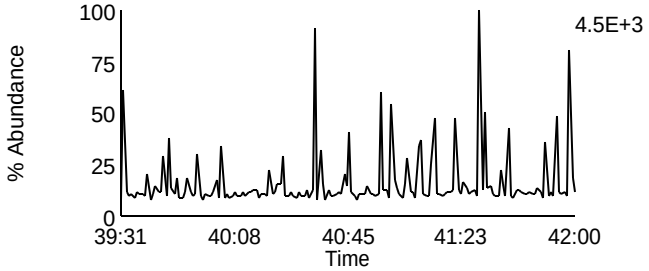


Homologue Group: Octas

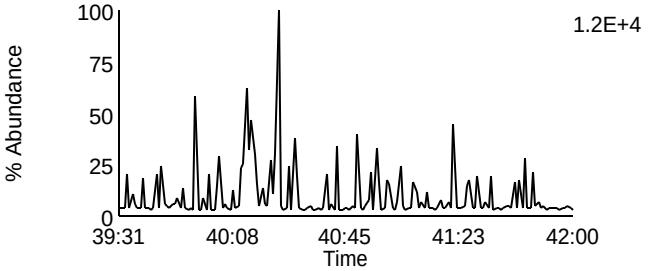
Data File Name: U140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141005 - SMT WI

Lab Sample ID: 10265141005
Client Sample ID: MAK113O
Instrument: 10MSHR06 (U)

Data File: U140512A_13 G5 C4 - 441.7428
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G5 C8 - 457.7377
SAMP 10265141005 - SMT WI



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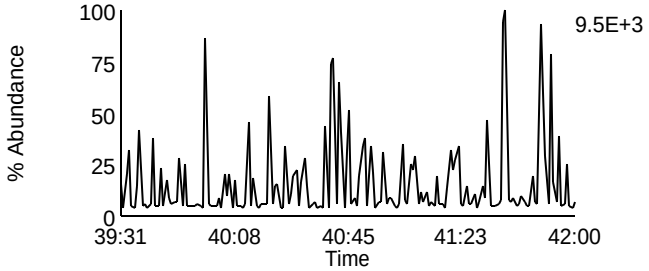
SAMP 10265141005 - SMT WI



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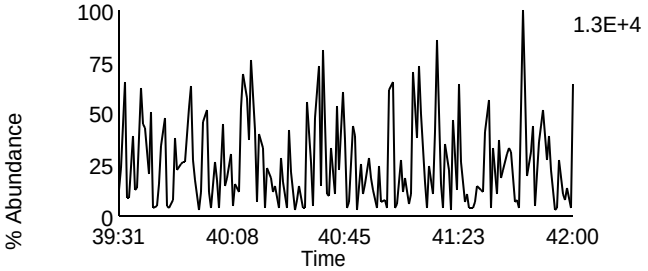
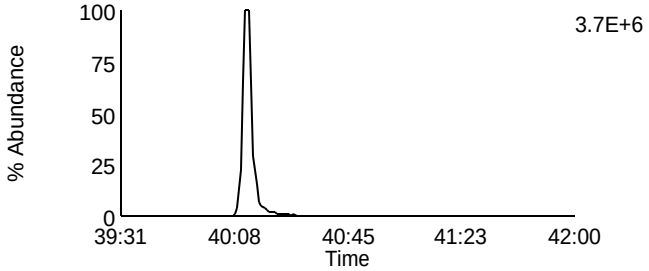
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G5 C11 - 469.7779
SAMP 10265141005 - SMT WI



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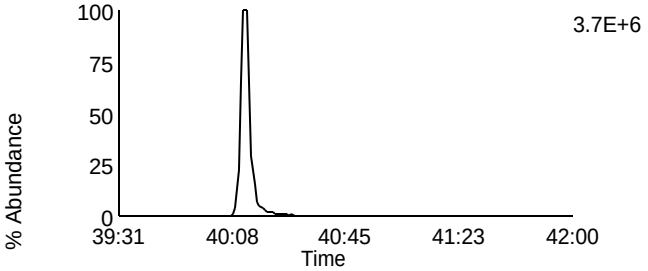
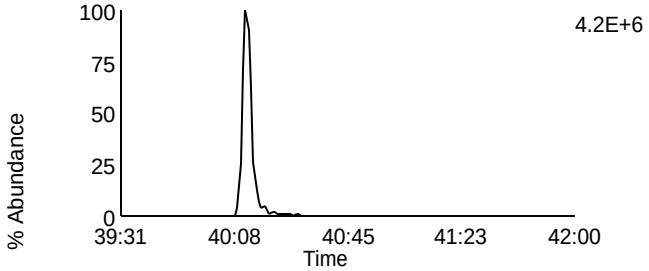
SAMP 10265141005 - SMT WI



Data File: U140512A_13 G5 C12 - 471.7749
SAMP 10265141005 - SMT WI



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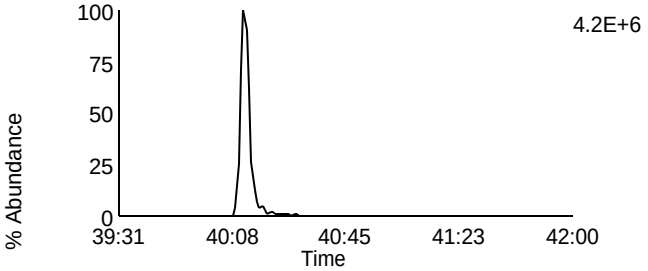

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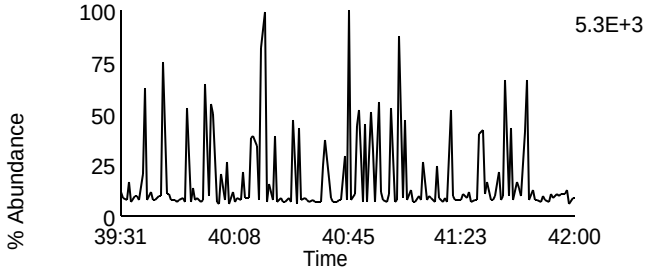
SAMP 10265141005 - SMT WI



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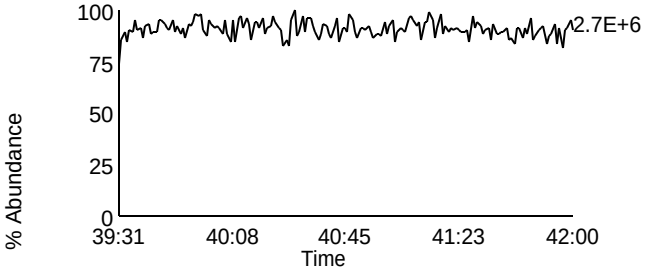
SAMP 10265141005 - SMT WI

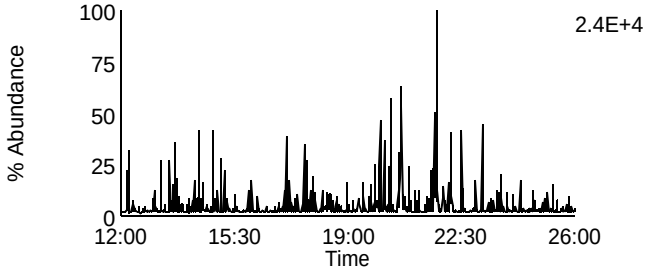


Homologue Group: Tetras

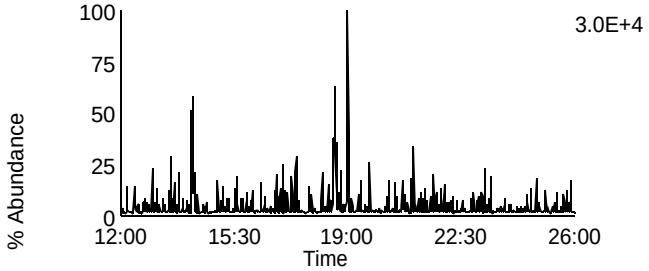
Data File Name: U140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141006 - SMT WI

Lab Sample ID: 10265141006
Client Sample ID: MAK114O
Instrument: 10MSHR06 (U)

Data File: U140512A_14 G1 C1 - 303.9016
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G1 C7 - 319.8965
SAMP 10265141006 - SMT WI



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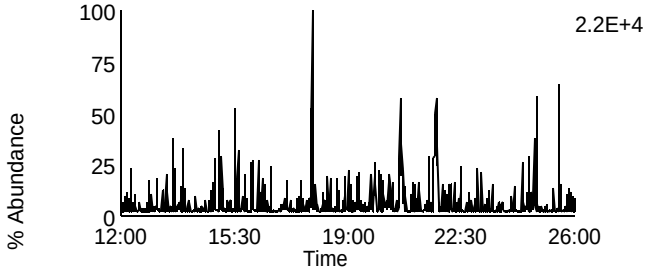
SAMP 10265141006 - SMT WI



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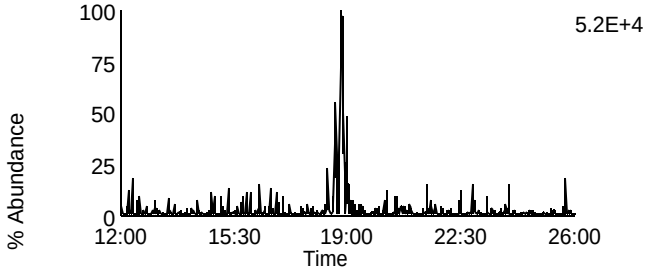
SAMP 10265141006 - SMT WI



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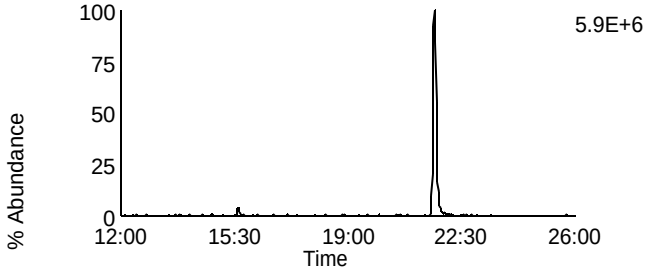
SAMP 10265141006 - SMT WI



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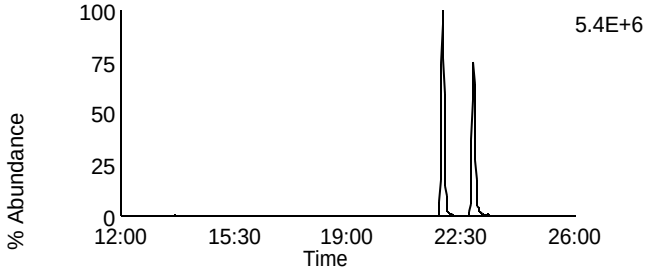
SAMP 10265141006 - SMT WI



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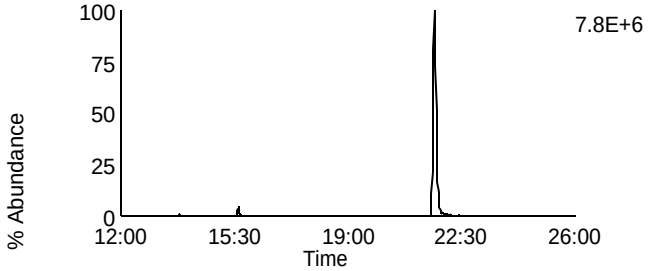
SAMP 10265141006 - SMT WI



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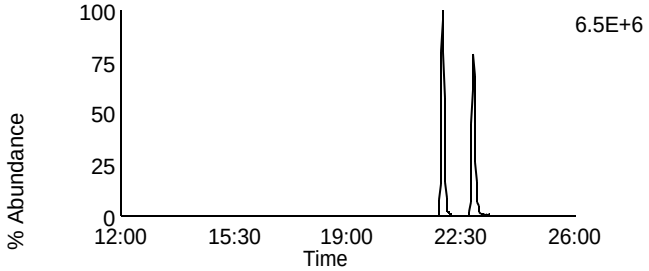
SAMP 10265141006 - SMT WI



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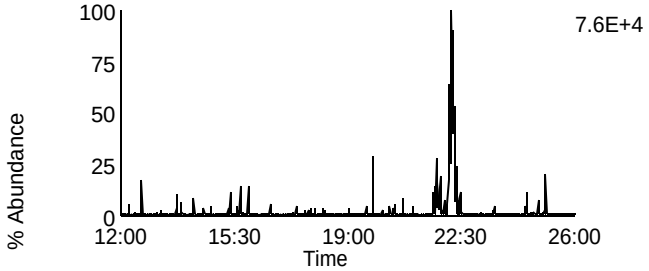
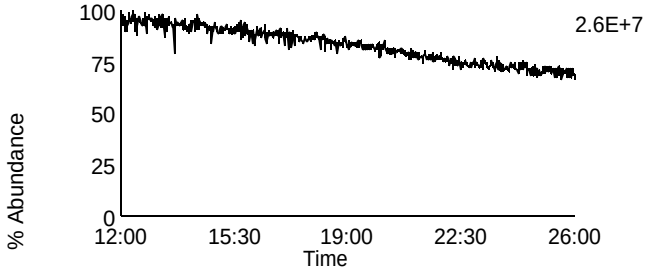
SAMP 10265141006 - SMT WI



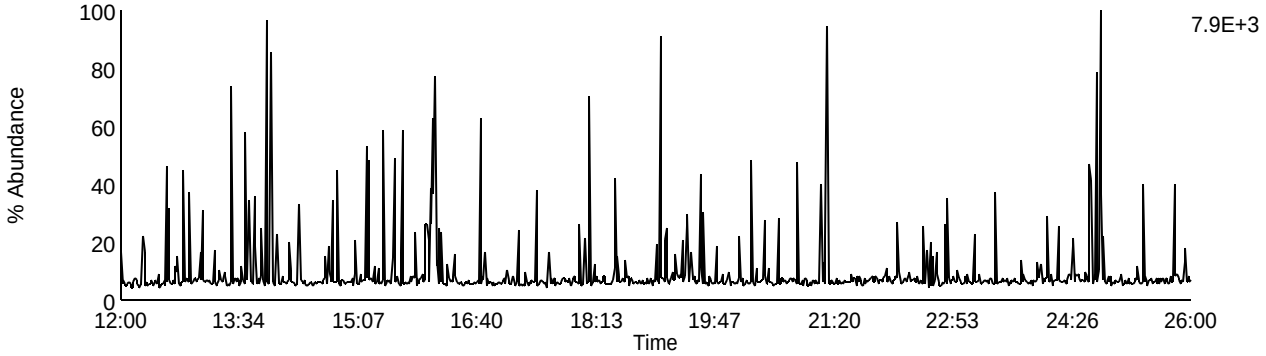
Data File: U140512A_14 G1 C5 - 318.9792
SAMP 10265141006 - SMT WI



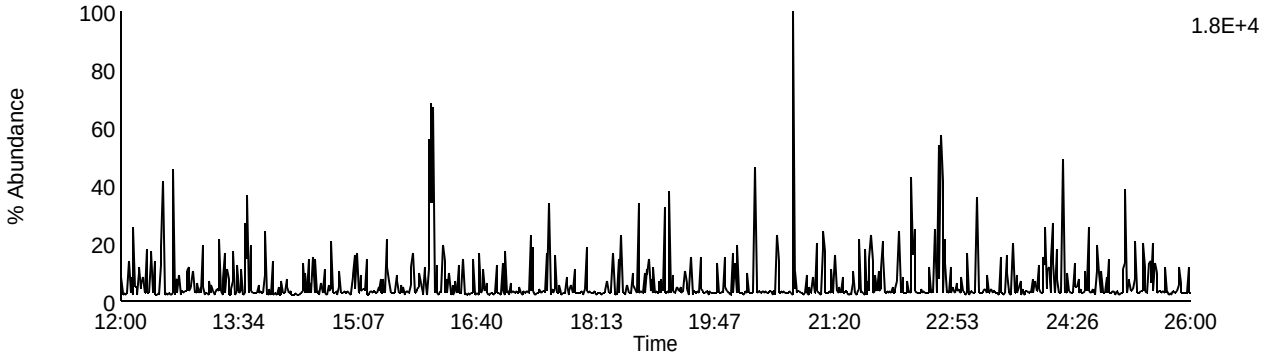
Homologue Group: Penta & Cleanup

Data File Name: U140512A_14	Lab Sample ID: 10265141006
Date Acquired: 5/12/2014	Client Sample ID: MAK114O
Sample Description: SAMP 10265141006 - SMT WI	Instrument: 10MSHR06 (U)

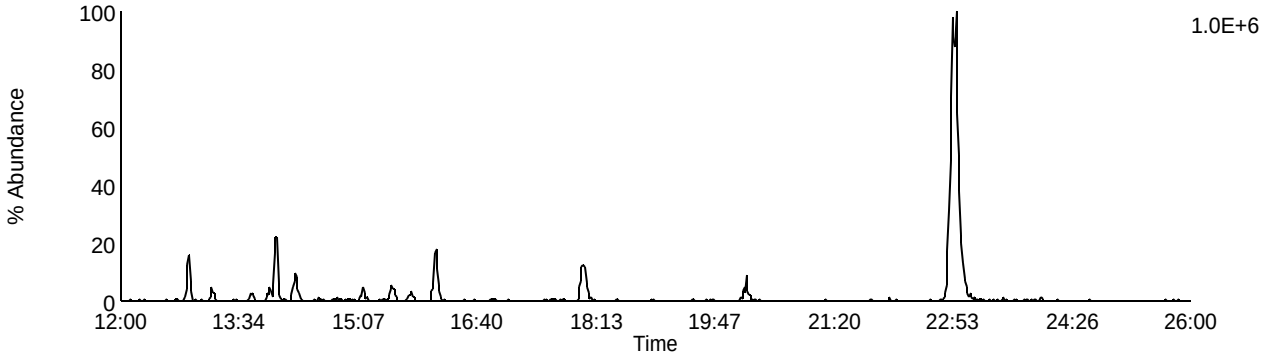
Data File: U140512A_14 G1 C12 - 339.8597
SAMP 10265141006 - SMT WI



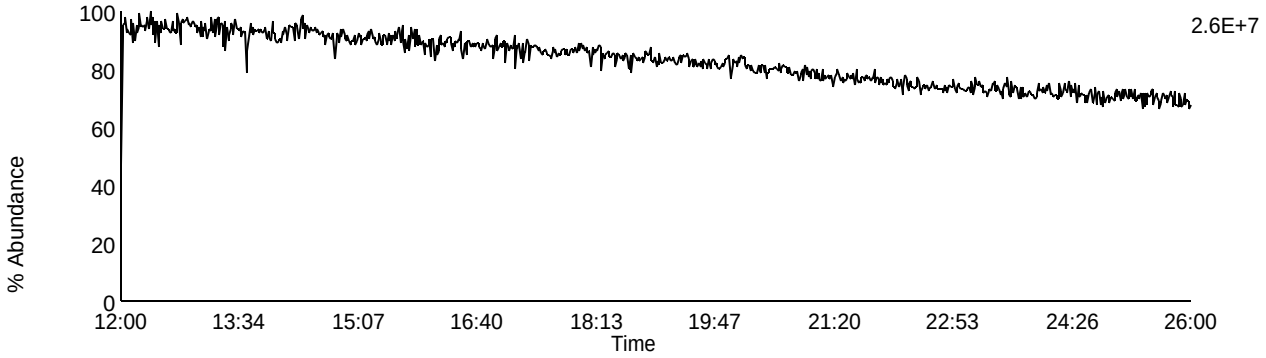
Data File: U140512A_14 G1 C13 - 341.8567
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G1 C9 - 327.8847
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G1 C5 - 318.9792
SAMP 10265141006 - SMT WI

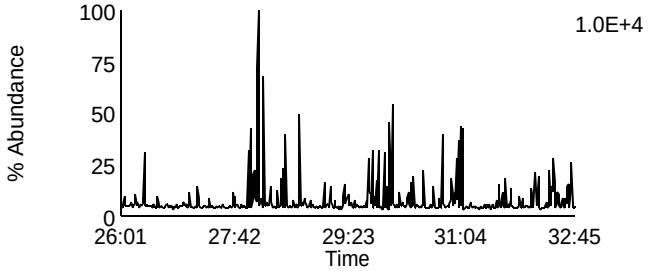


Homologue Group: Pentas

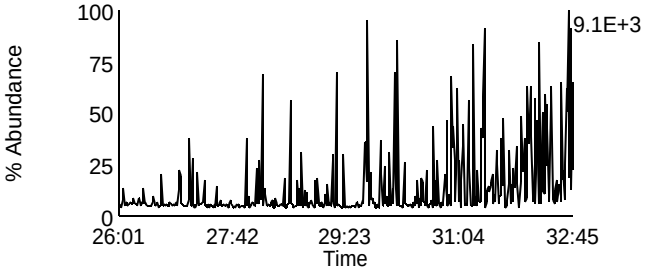
Data File Name: U140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141006 - SMT WI

Lab Sample ID: 10265141006
Client Sample ID: MAK114O
Instrument: 10MSHR06 (U)

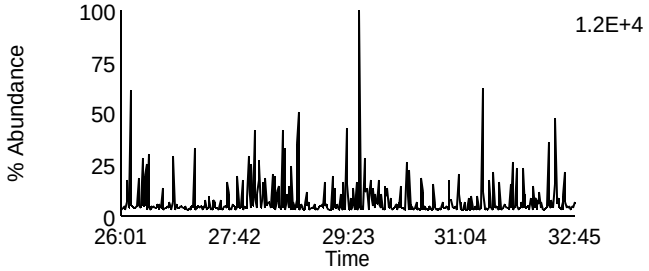
Data File: U140512A_14 G2 C1 - 339.8597
SAMP 10265141006 - SMT WI



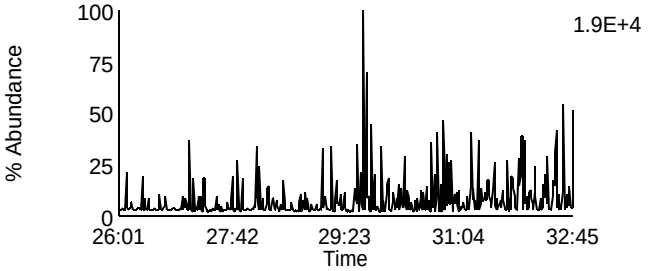
Data File: U140512A_14 G2 C4 - 353.8576
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G2 C2 - 341.8567
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G2 C8 - 355.8546
SAMP 10265141006 - SMT WI



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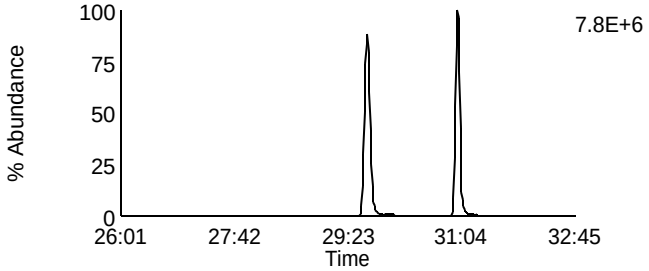
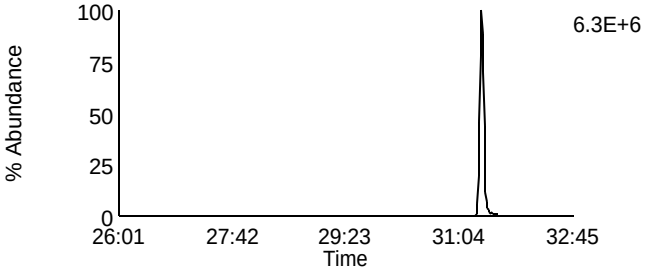
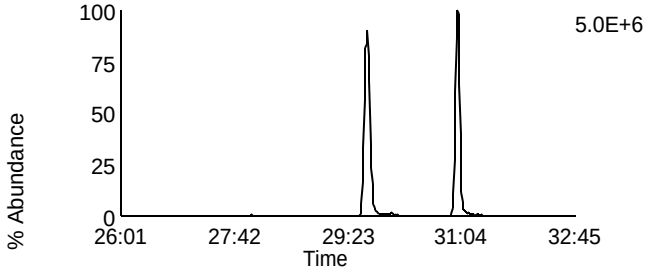
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G2 C10 - 367.8948
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G2 C5 - 353.8969
SAMP 10265141006 - SMT WI



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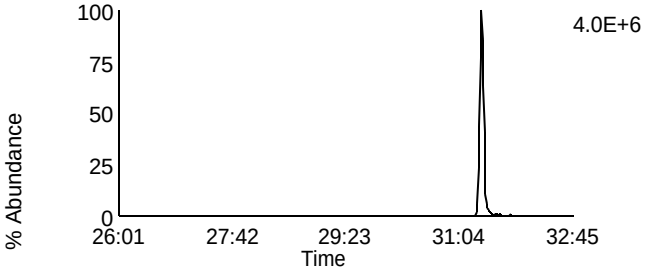
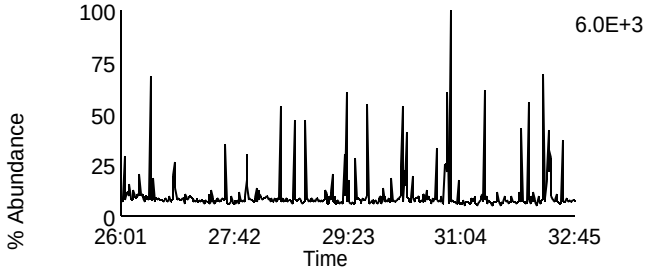
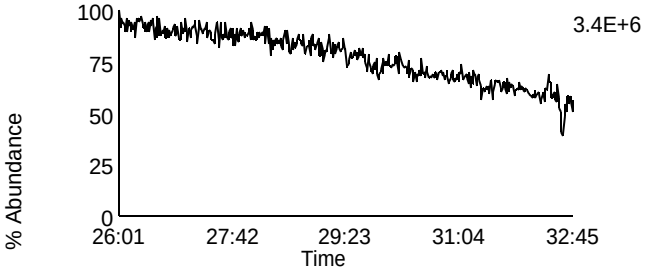


Data File: U140512A_14 G2 C12 - 409.7974
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G2 C6 - 354.9792
SAMP 10265141006 - SMT WI

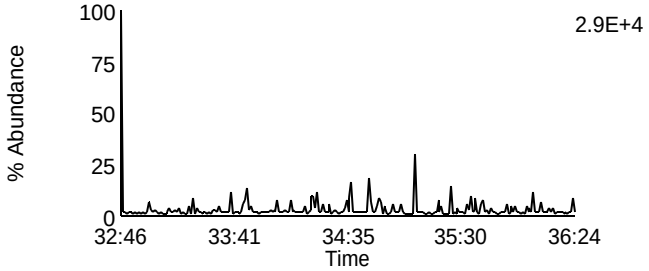


Homologue Group: Hexas

Data File Name: U140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141006 - SMT WI

Lab Sample ID: 10265141006
Client Sample ID: MAK114O
Instrument: 10MSHR06 (U)

Data File: U140512A_14 G3 C1 - 373.8207
SAMP 10265141006 - SMT WI



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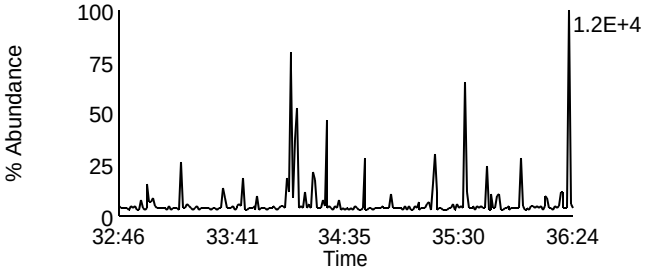
SAMP 10265141006 - SMT WI



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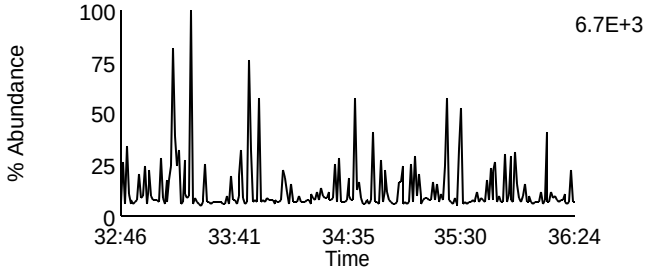
SAMP 10265141006 - SMT WI



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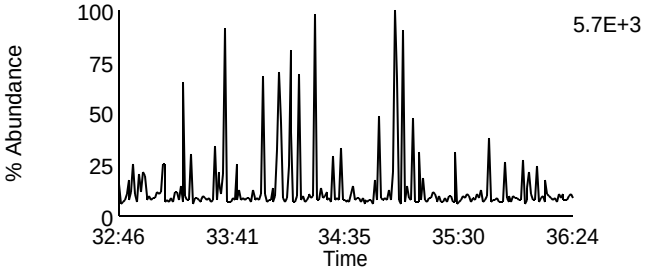
SAMP 10265141006 - SMT WI



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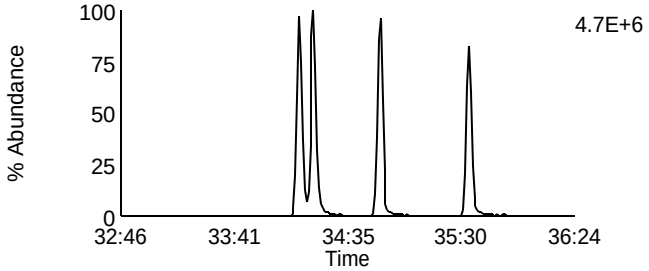
SAMP 10265141006 - SMT WI



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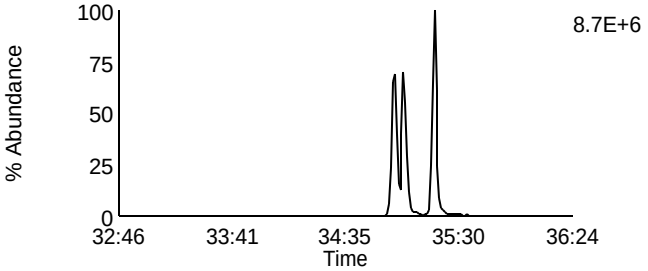
SAMP 10265141006 - SMT WI



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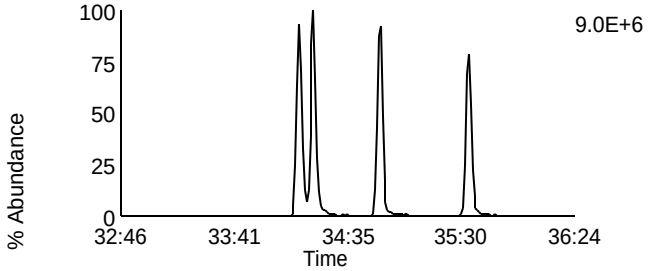
SAMP 10265141006 - SMT WI



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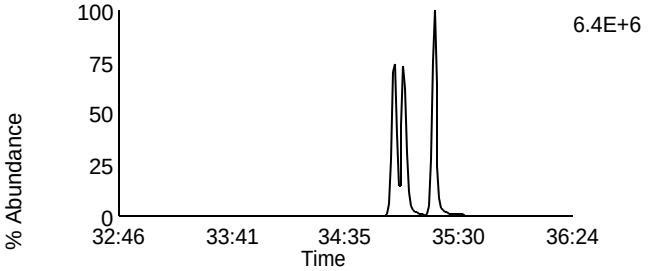
SAMP 10265141006 - SMT WI



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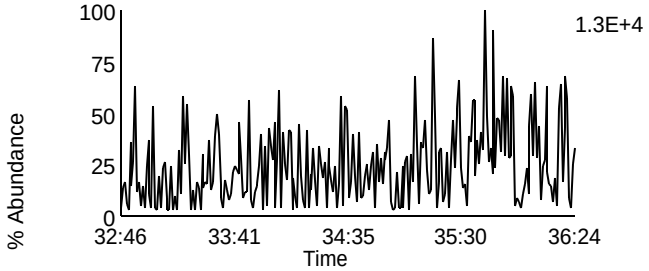
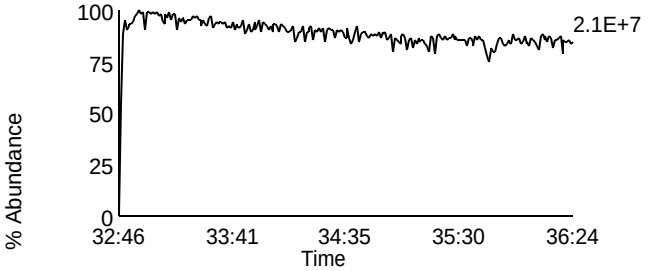
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G3 C3 - 380.976
SAMP 10265141006 - SMT WI

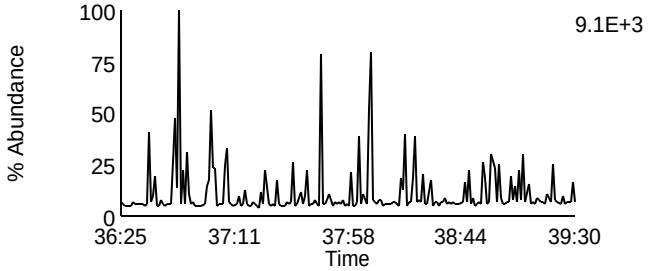


Homologue Group: Heptas

Data File Name: U140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141006 - SMT WI

Lab Sample ID: 10265141006
Client Sample ID: MAK114O
Instrument: 10MSHR06 (U)

Data File: U140512A_14 G4 C3 - 407.7818
SAMP 10265141006 - SMT WI



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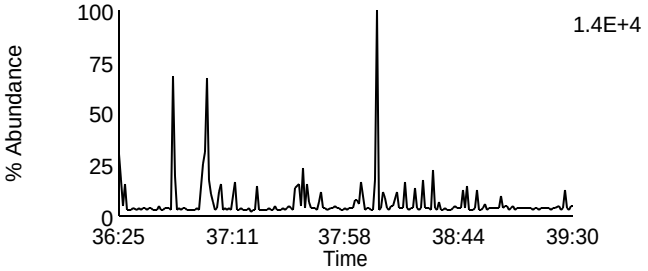
SAMP 10265141006 - SMT WI



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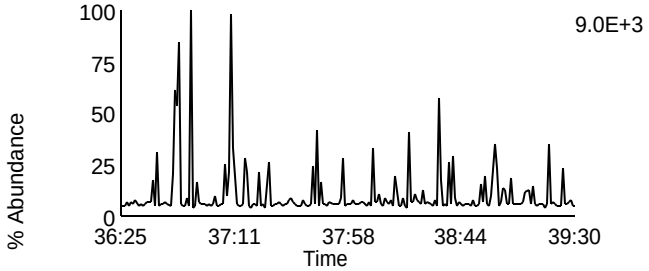
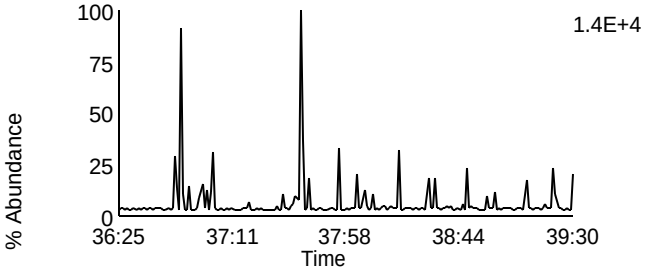
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G4 C9 - 425.7737
SAMP 10265141006 - SMT WI



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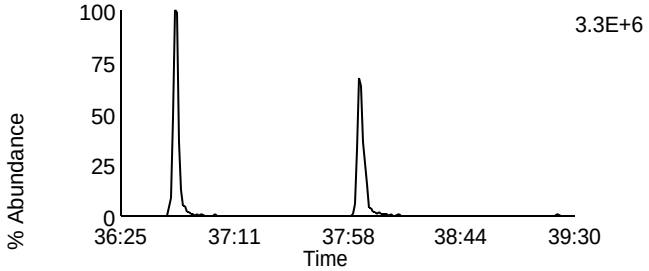
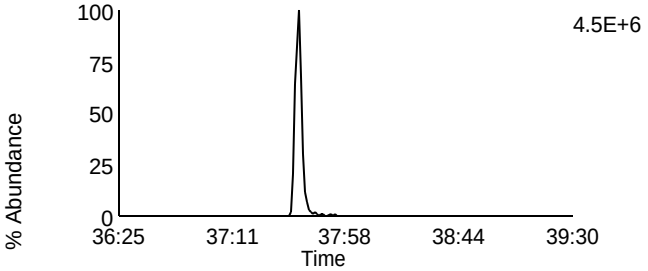
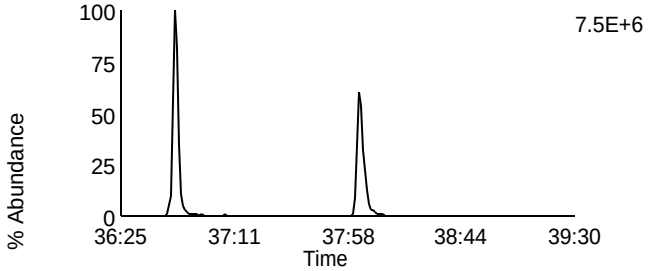
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G4 C11 - 435.8169
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G4 C7 - 419.822
SAMP 10265141006 - SMT WI



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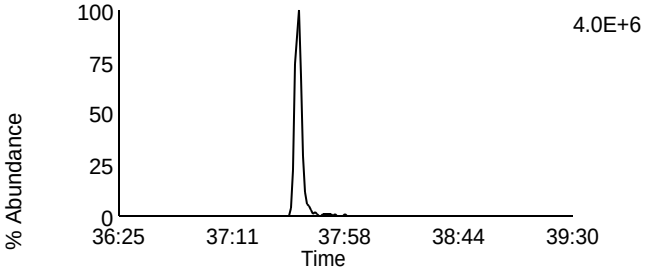
SAMP 10265141006 - SMT WI



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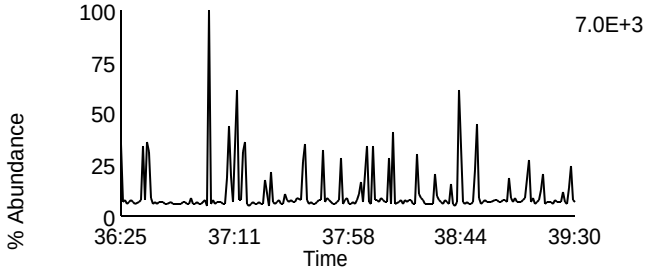
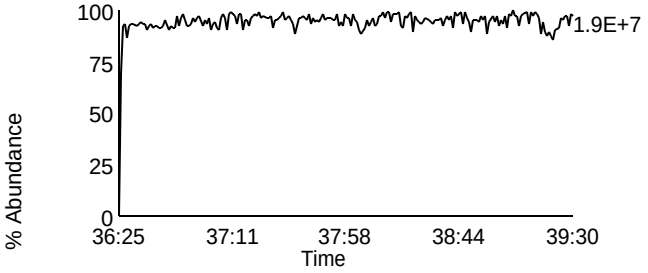
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G4 C1 - 380.976
SAMP 10265141006 - SMT WI

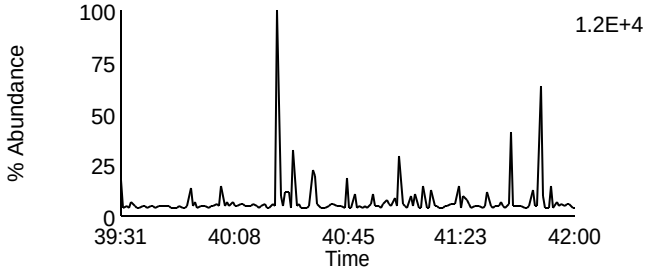


Homologue Group: Octas

Data File Name: U140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141006 - SMT WI

Lab Sample ID: 10265141006
Client Sample ID: MAK114O
Instrument: 10MSHR06 (U)

Data File: U140512A_14 G5 C4 - 441.7428
SAMP 10265141006 - SMT WI



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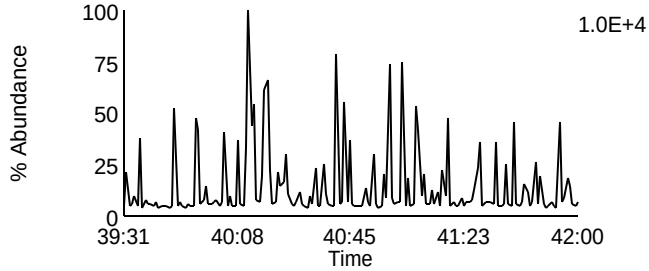
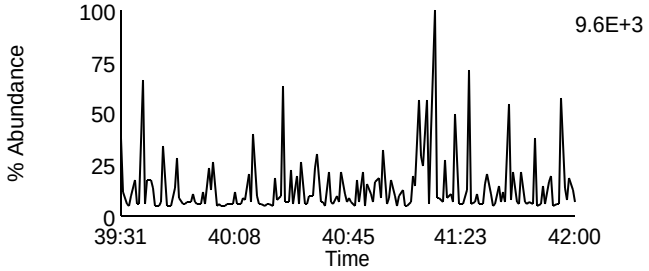
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G5 C5 - 443.7398
SAMP 10265141006 - SMT WI



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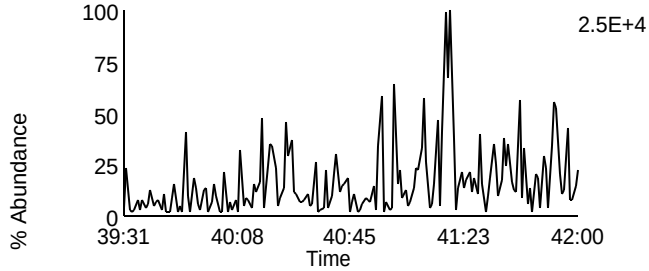
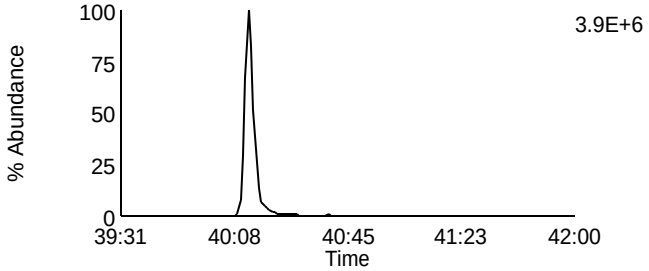
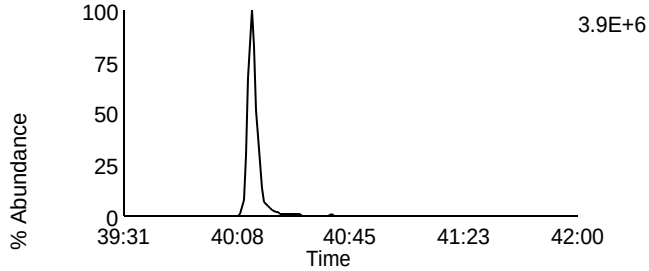
SAMP 10265141006 - SMT WI



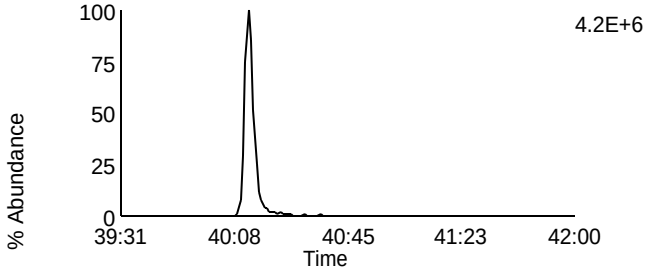
Data File: U140512A_14 G5 C11 - 469.7779
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G5 C11 - 469.7779
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G5 C12 - 471.7749
SAMP 10265141006 - SMT WI



Data File: U140512A_14 G5 C12 - 471.7749
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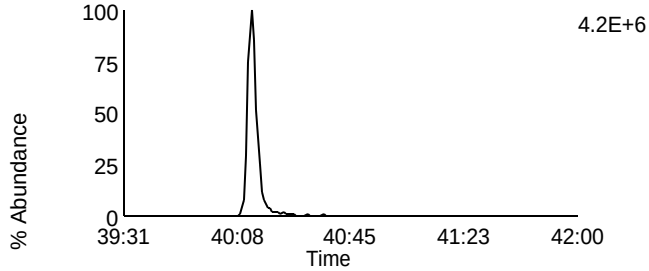

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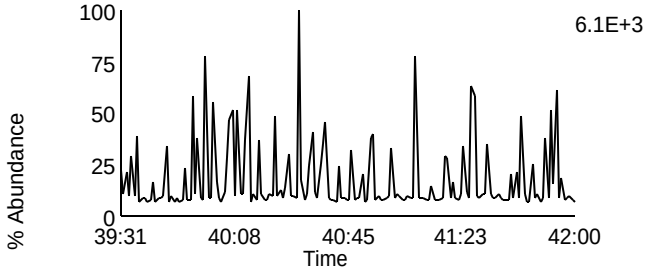
SAMP 10265141006 - SMT WI



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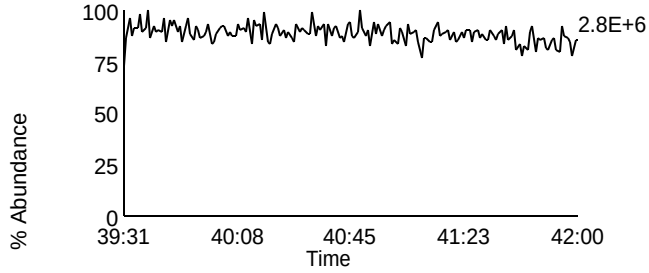
SAMP 10265141006 - SMT WI

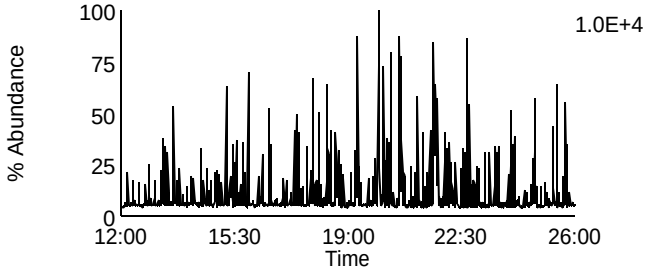


Homologue Group: Tetras

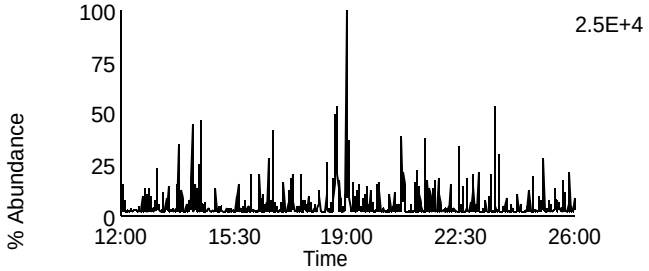
Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

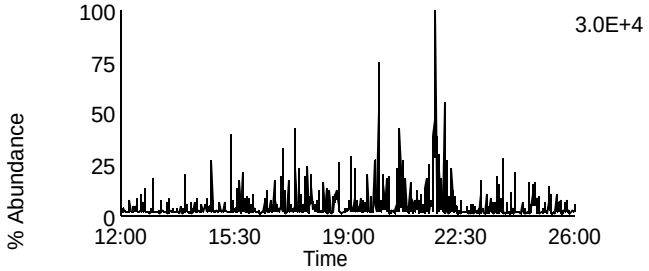
Data File: U140512A_15 G1 C1 - 303.9016
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C7 - 319.8965
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C2 - 305.8987
SAMP 10265141007 - SMT WI



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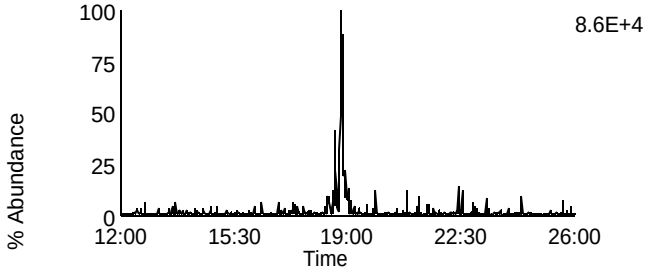
SAMP 10265141007 - SMT WI



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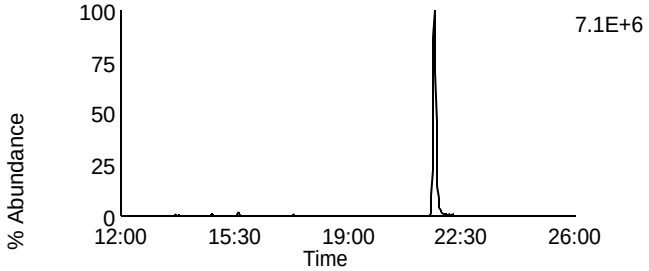
SAMP 10265141007 - SMT WI



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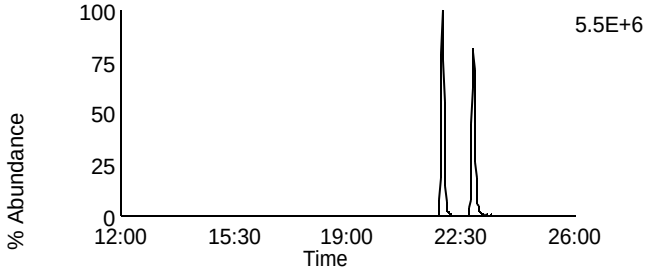
SAMP 10265141007 - SMT WI



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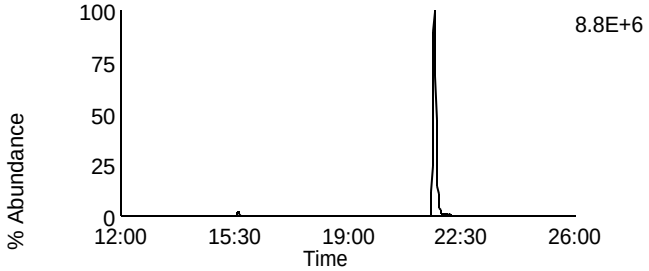
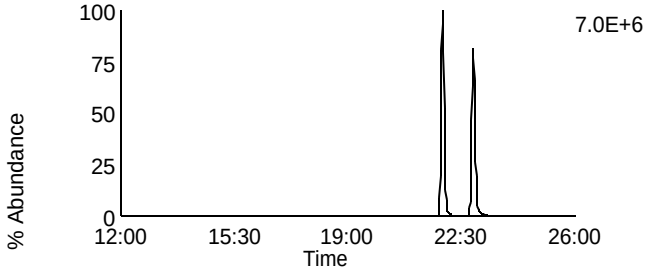
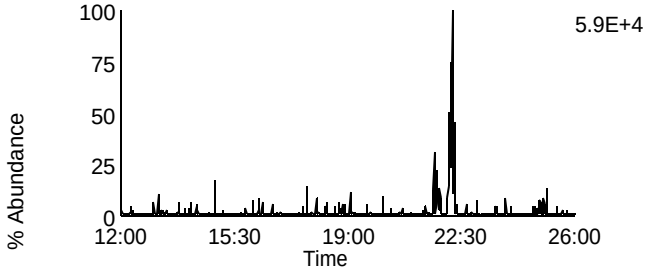
SAMP 10265141007 - SMT WI



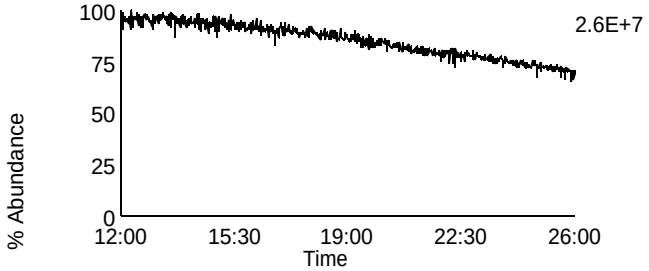
Data File: U140512A_15 G1 C11 - 333.9338
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C14 - 375.8364
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C5 - 318.9792
SAMP 10265141007 - SMT WI

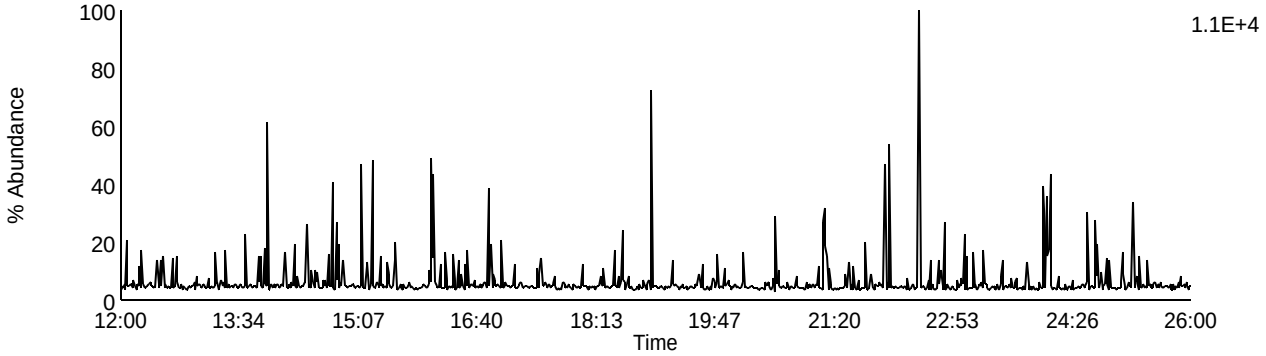


Homologue Group: Penta & Cleanup

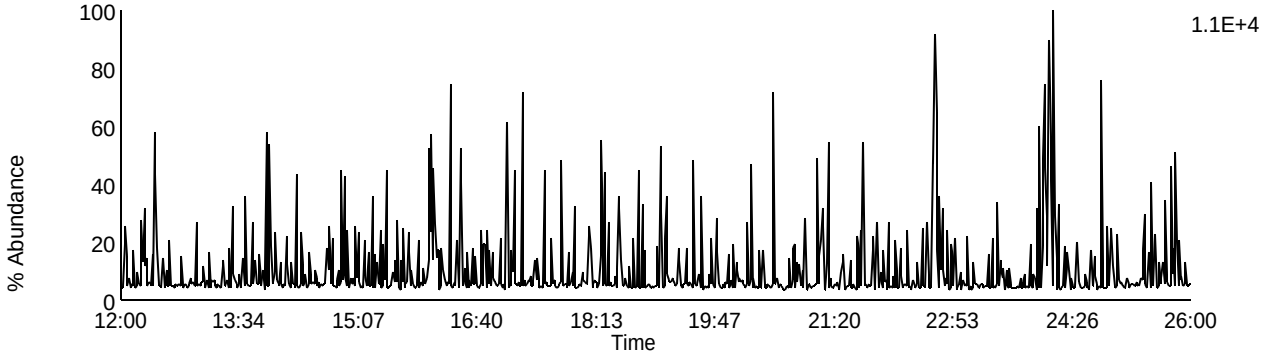
Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

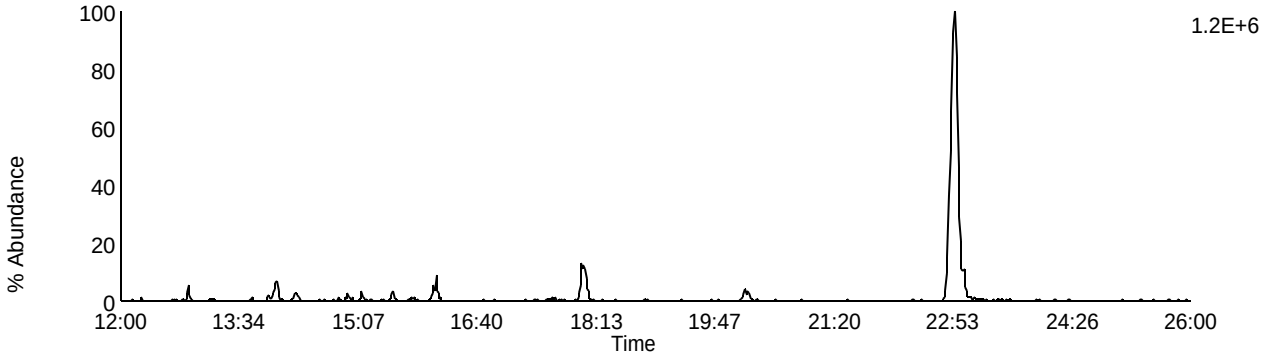
Data File: U140512A_15 G1 C12 - 339.8597
SAMP 10265141007 - SMT WI



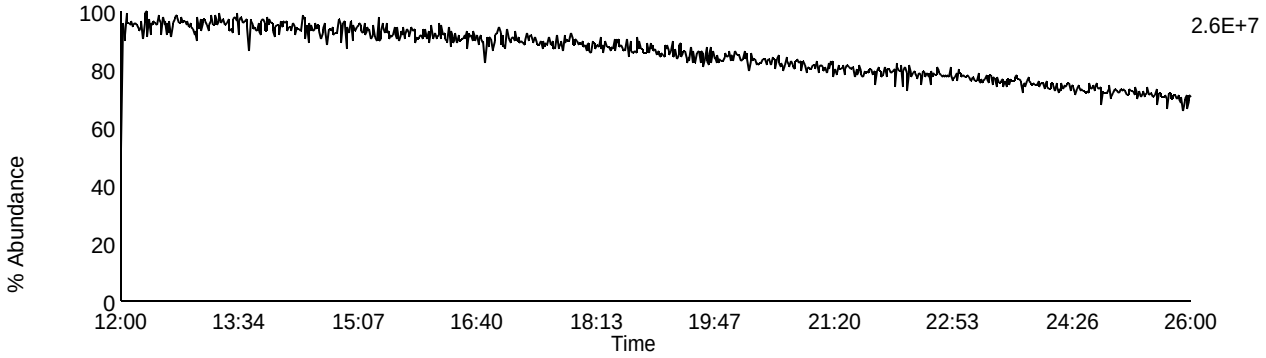
Data File: U140512A_15 G1 C13 - 341.8567
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C9 - 327.8847
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G1 C5 - 318.9792
SAMP 10265141007 - SMT WI

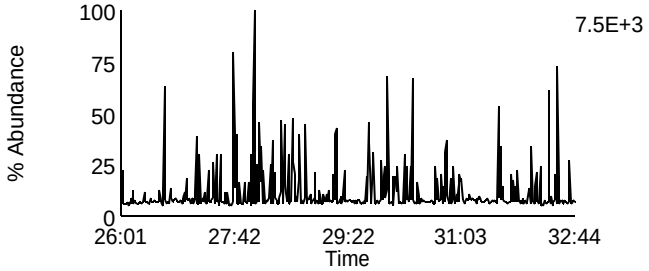


Homologue Group: Pentas

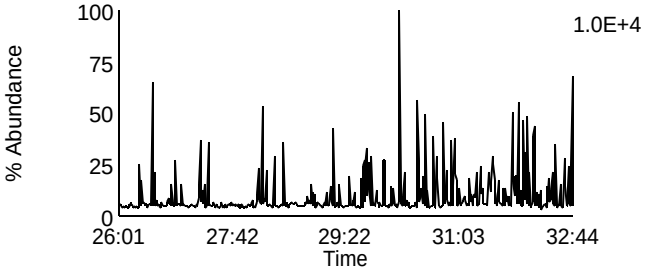
Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

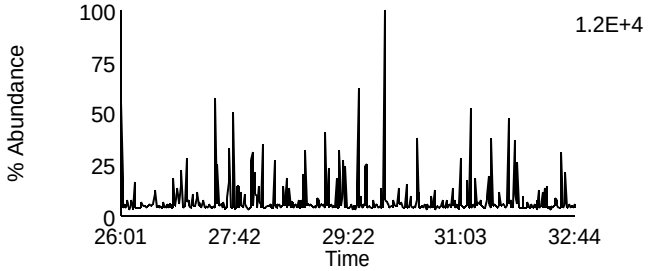
Data File: U140512A_15 G2 C1 - 339.8597
SAMP 10265141007 - SMT WI



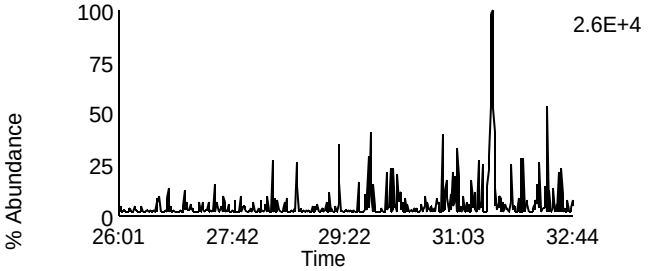
Data File: U140512A_15 G2 C4 - 353.8576
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G2 C2 - 341.8567
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G2 C8 - 355.8546
SAMP 10265141007 - SMT WI



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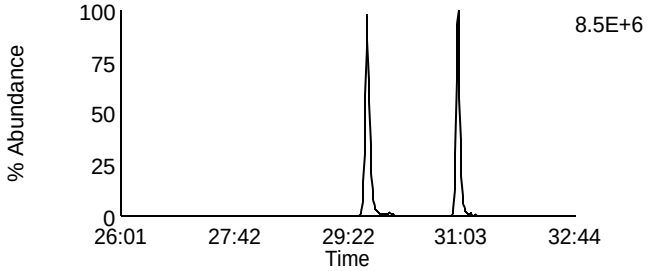
SAMP 10265141007 - SMT WI



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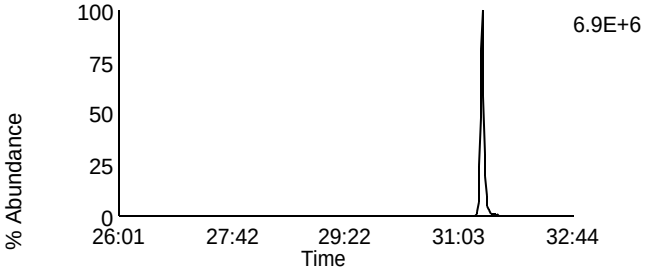
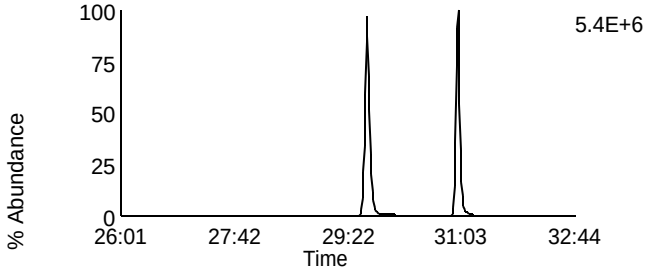
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G2 C5 - 353.8969
SAMP 10265141007 - SMT WI



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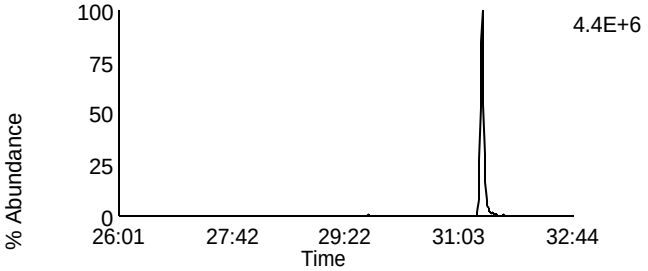
SAMP 10265141007 - SMT WI



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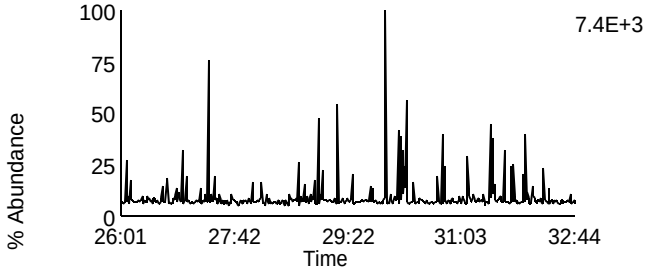
SAMP 10265141007 - SMT WI



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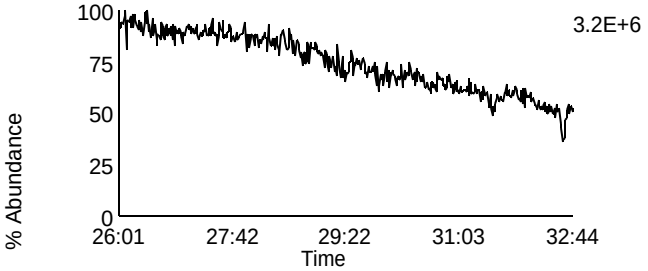
SAMP 10265141007 - SMT WI

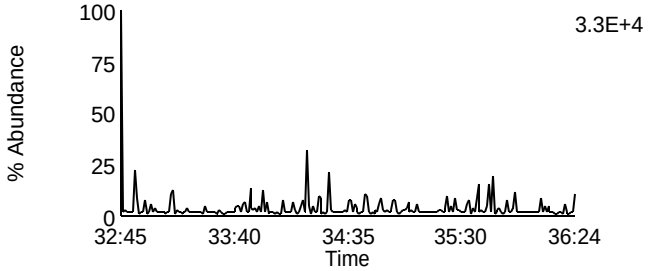


Homologue Group: Hexas

Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

Data File: U140512A_15 G3 C1 - 373.8207
SAMP 10265141007 - SMT WI



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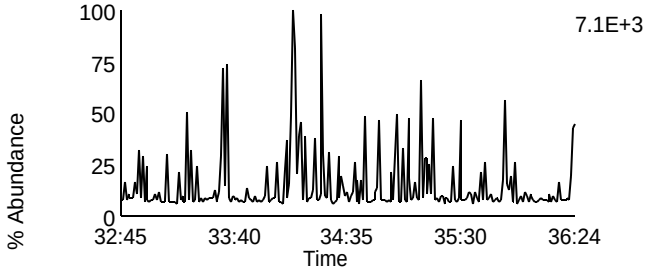
SAMP 10265141007 - SMT WI



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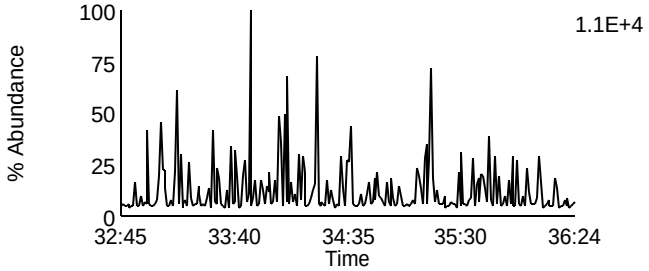
SAMP 10265141007 - SMT WI



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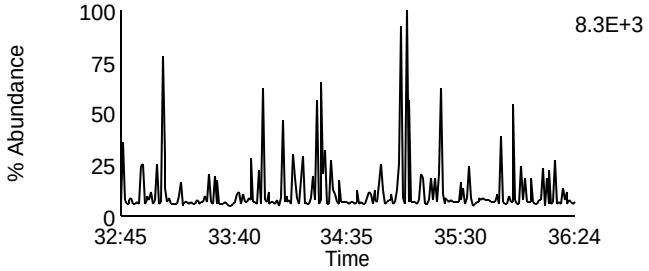
SAMP 10265141007 - SMT WI



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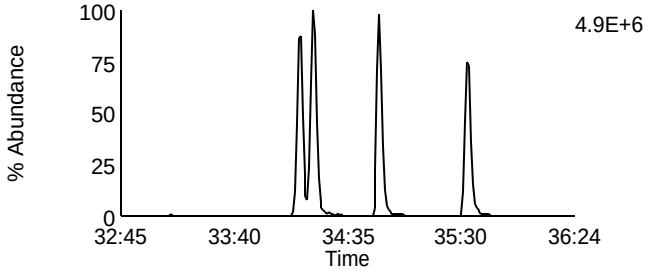
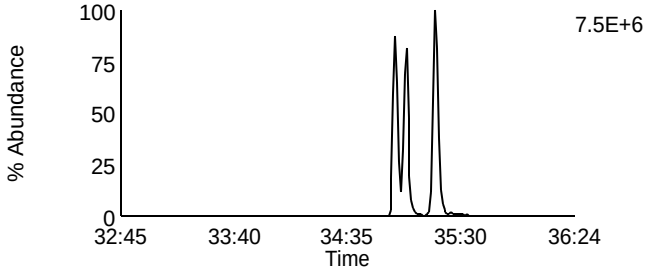
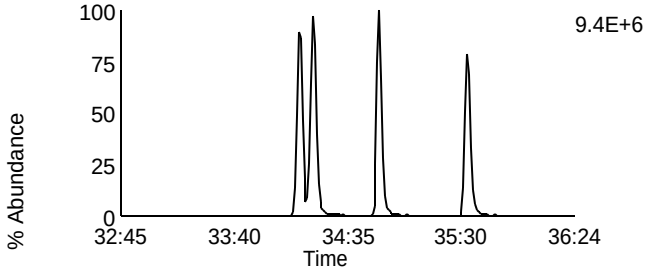
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G3 C9 - 401.8559
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G3 C6 - 385.861
SAMP 10265141007 - SMT WI



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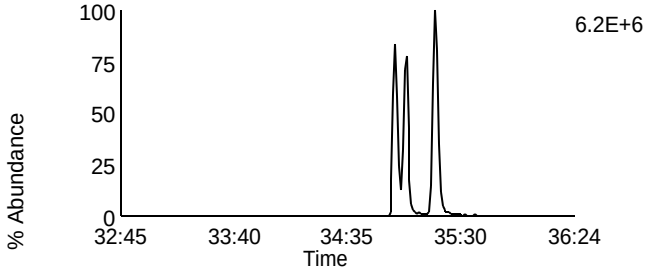

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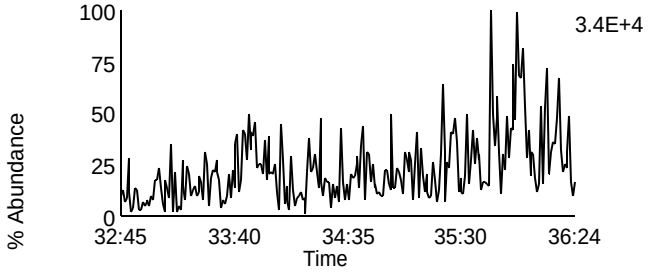

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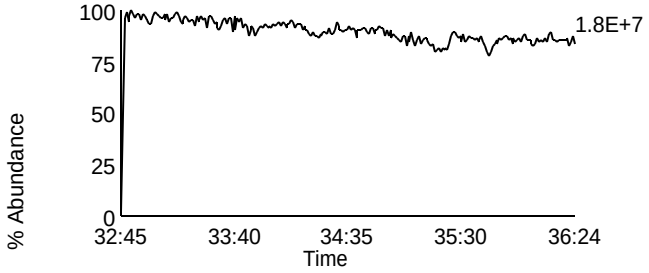
SAMP 10265141007 - SMT WI

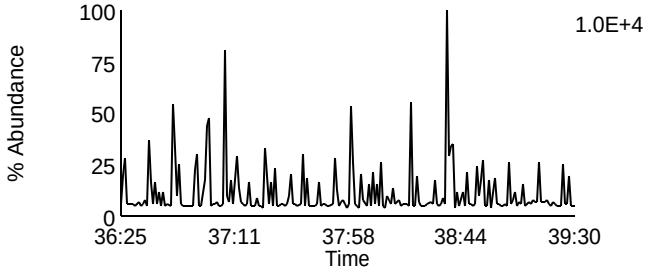


Homologue Group: Heptas

Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

Data File: U140512A_15 G4 C3 - 407.7818
SAMP 10265141007 - SMT WI



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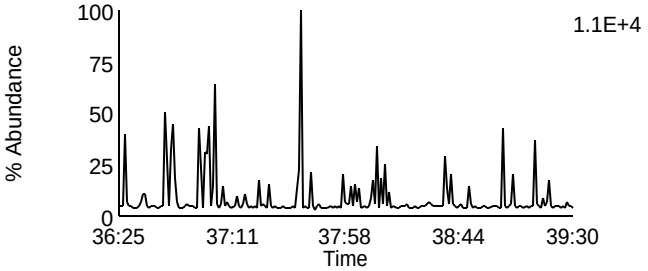
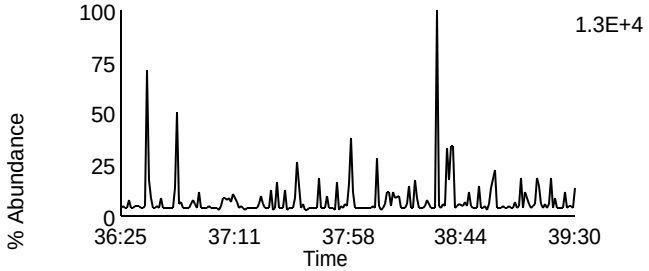
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G4 C4 - 409.7788
SAMP 10265141007 - SMT WI



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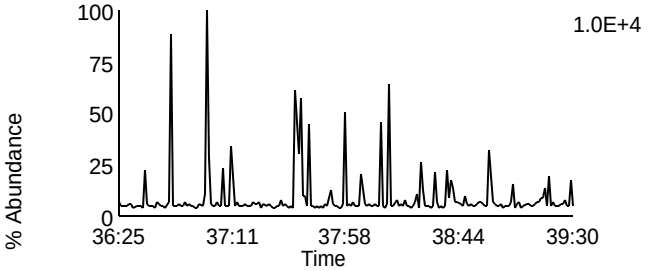
SAMP 10265141007 - SMT WI



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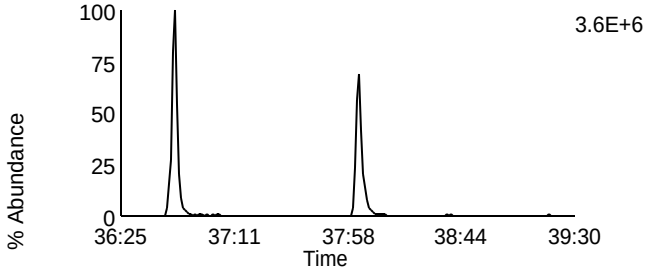
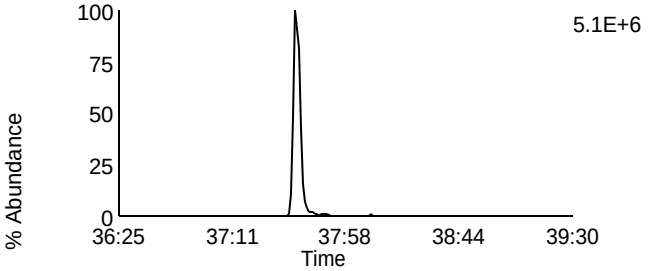
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G4 C11 - 435.8169
SAMP 10265141007 - SMT WI



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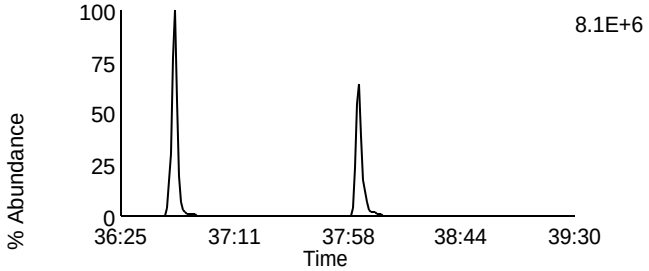
SAMP 10265141007 - SMT WI



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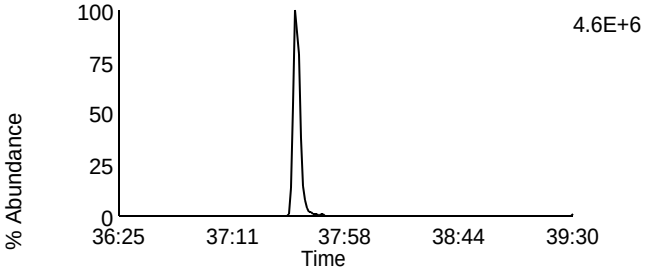

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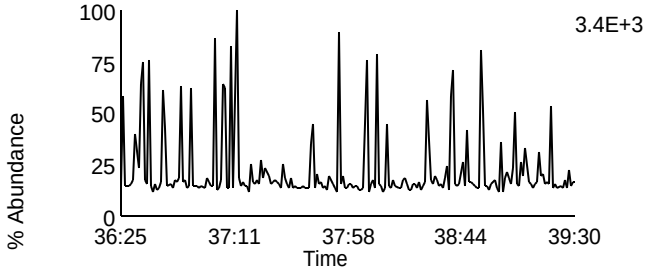
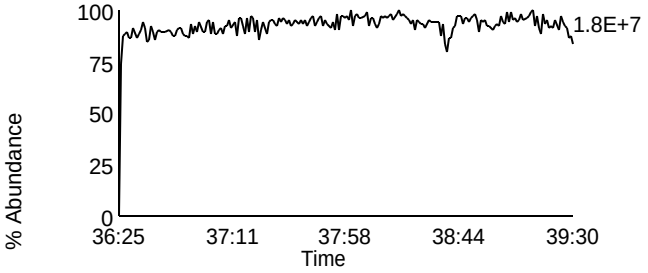
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G4 C1 - 380.976
SAMP 10265141007 - SMT WI

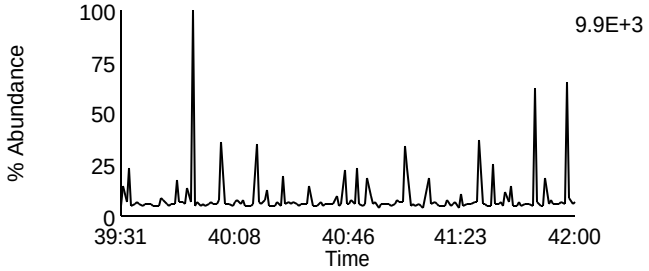


Homologue Group: Octas

Data File Name: U140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141007 - SMT WI

Lab Sample ID: 10265141007
Client Sample ID: MAK115O
Instrument: 10MSHR06 (U)

Data File: U140512A_15 G5 C4 - 441.7428
SAMP 10265141007 - SMT WI



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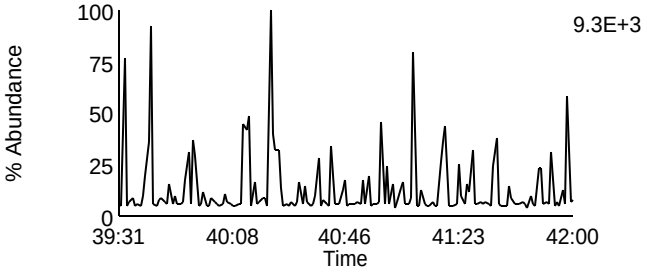
SAMP 10265141007 - SMT WI



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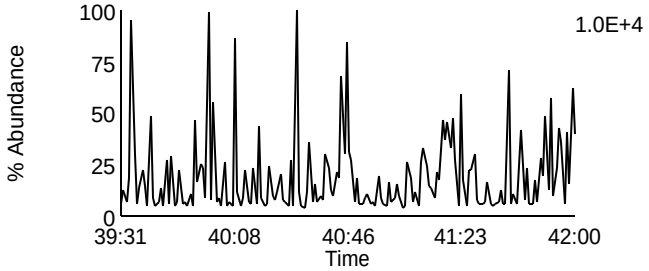
SAMP 10265141007 - SMT WI



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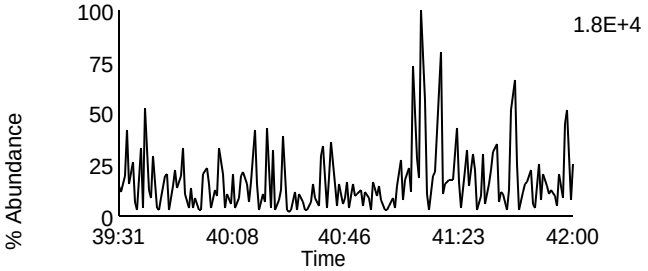
SAMP 10265141007 - SMT WI



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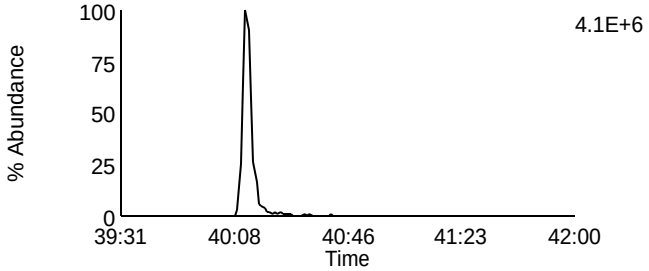
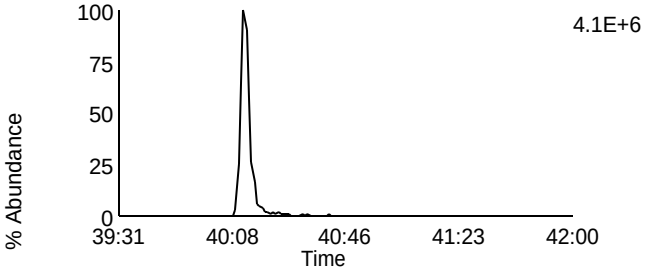
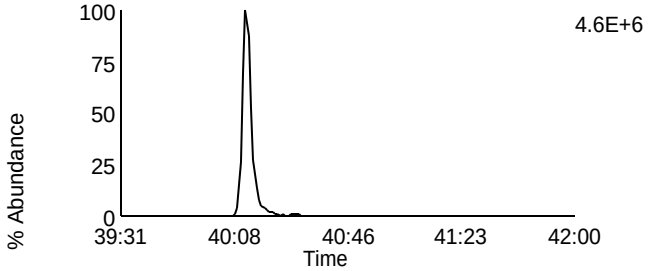
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G5 C11 - 469.7779
SAMP 10265141007 - SMT WI



Data File: U140512A_15 G5 C12 - 471.7749
SAMP 10265141007 - SMT WI



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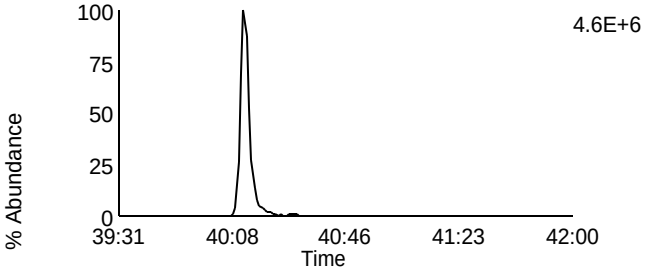
SAMP 10265141007 - SMT WI



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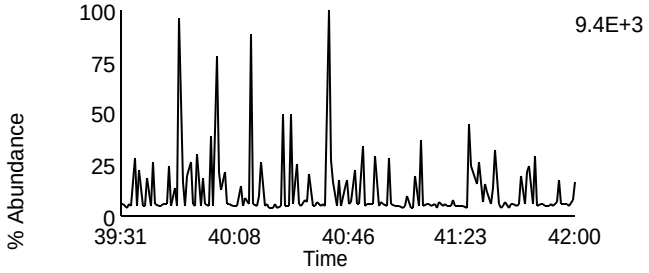
SAMP 10265141007 - SMT WI



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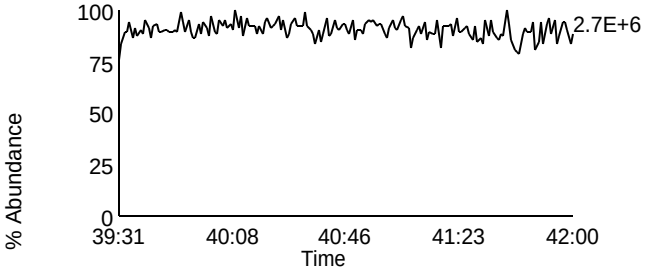
SAMP 10265141007 - SMT WI

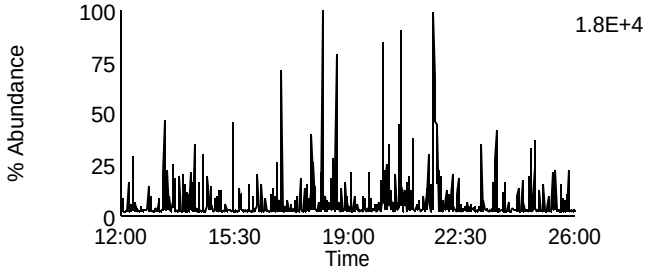


Homologue Group: Tetras

Data File Name: U140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141008 - SMT WI

Lab Sample ID: 10265141008
Client Sample ID: MAK116O
Instrument: 10MSHR06 (U)

Data File: U140512A_16 G1 C1 - 303.9016
SAMP 10265141008 - SMT WI



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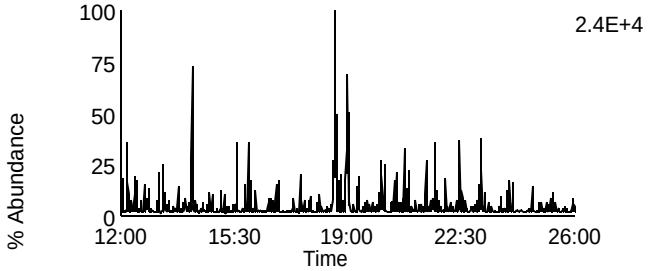
SAMP 10265141008 - SMT WI



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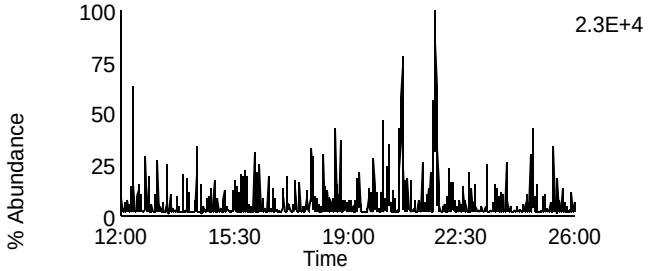
SAMP 10265141008 - SMT WI



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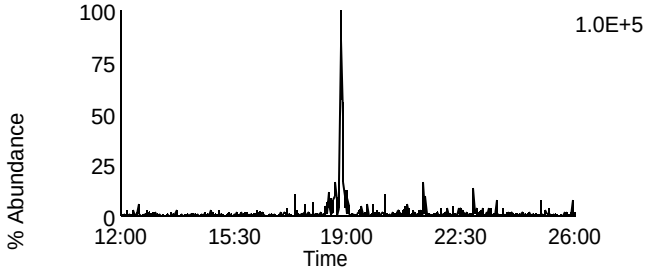
SAMP 10265141008 - SMT WI



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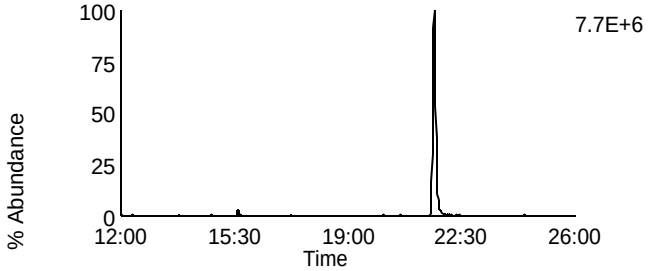
SAMP 10265141008 - SMT WI



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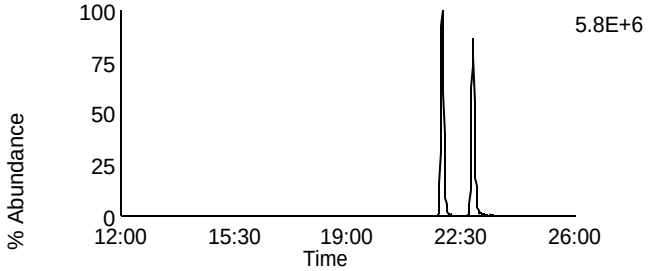
SAMP 10265141008 - SMT WI



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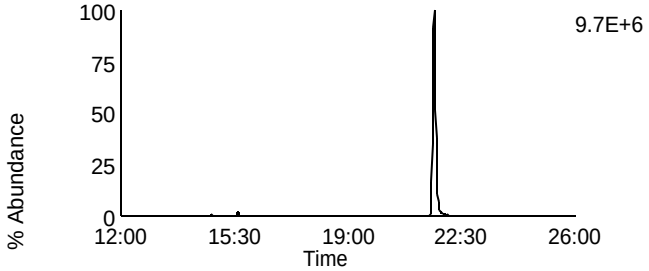
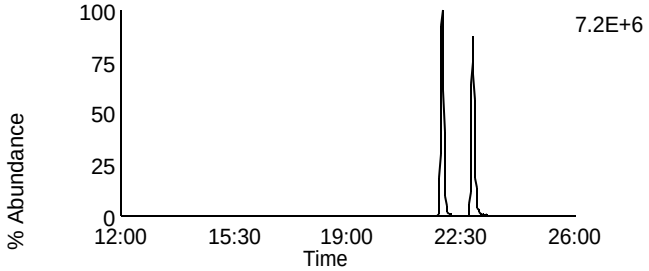
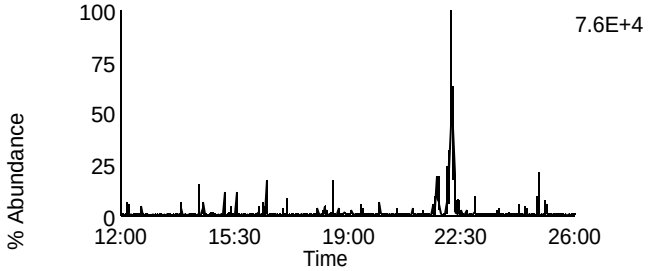
SAMP 10265141008 - SMT WI



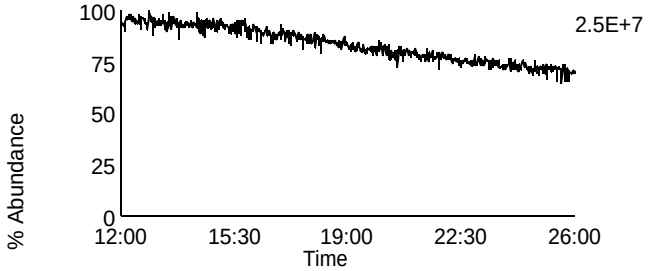
Data File: U140512A_16 G1 C11 - 333.9338
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G1 C14 - 375.8364
SAMP 10265141008 - SMT WI



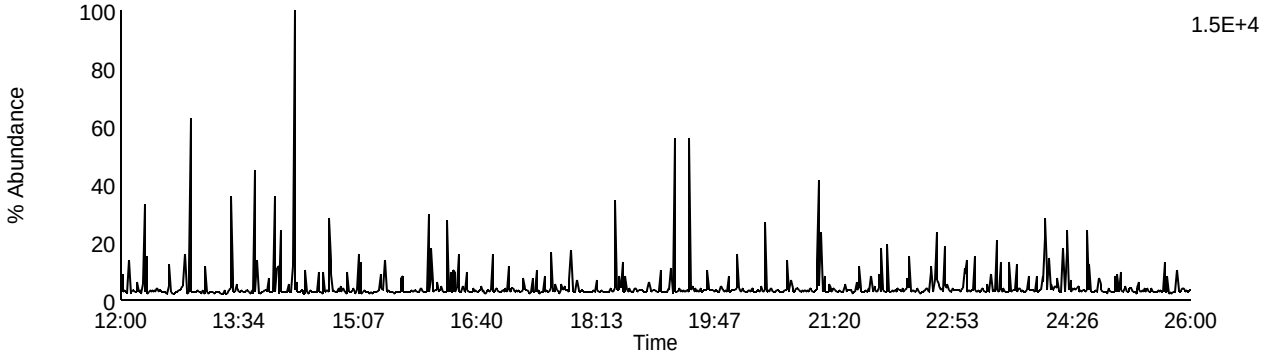
Data File: U140512A_16 G1 C5 - 318.9792
SAMP 10265141008 - SMT WI



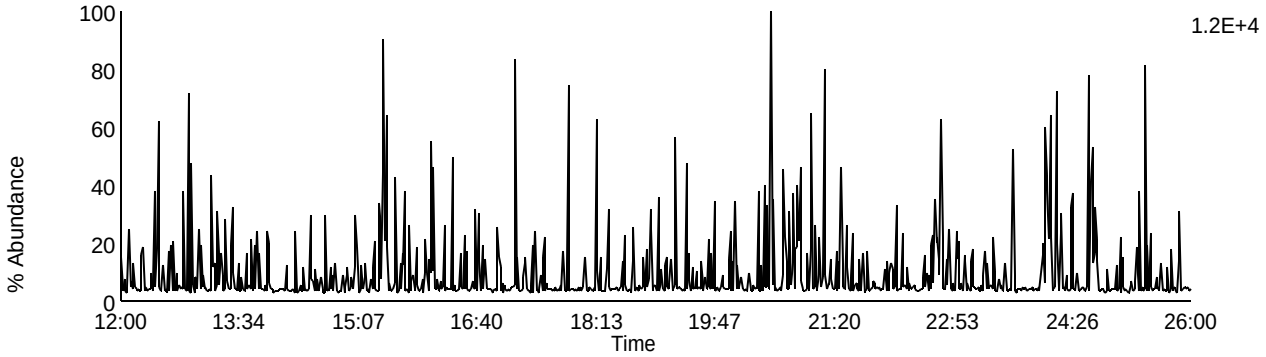
Homologue Group: Penta & Cleanup

Data File Name: U140512A_16	Lab Sample ID: 10265141008
Date Acquired: 5/12/2014	Client Sample ID: MAK116O
Sample Description: SAMP 10265141008 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140512A_16 G1 C12 - 339.8597
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G1 C13 - 341.8567
SAMP 10265141008 - SMT WI



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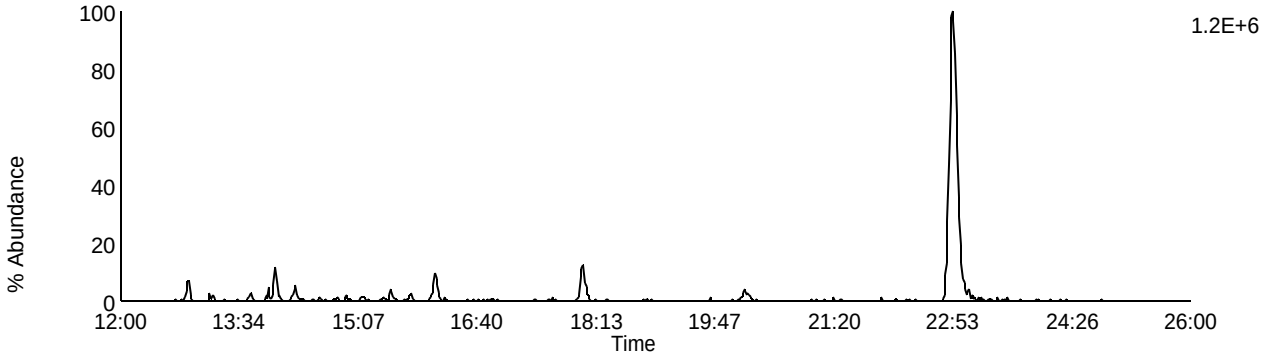
SAMP 10265141008 - SMT WI



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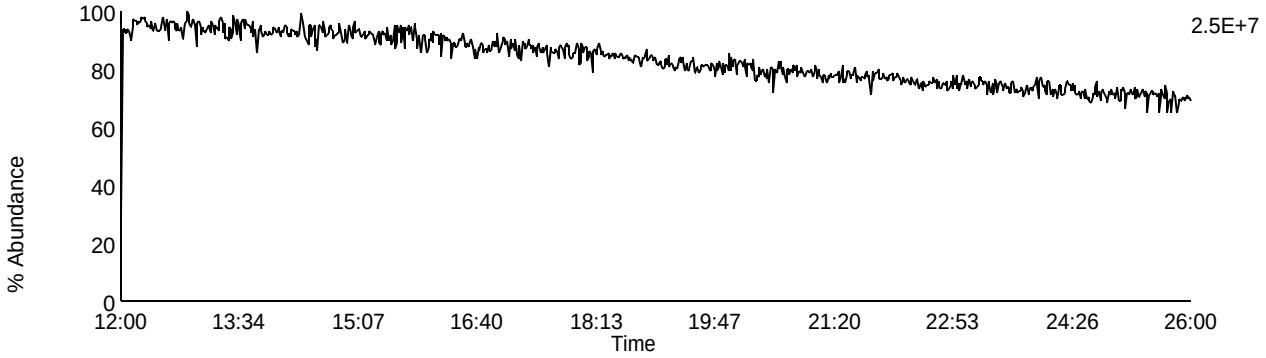
SAMP 10265141008 - SMT WI

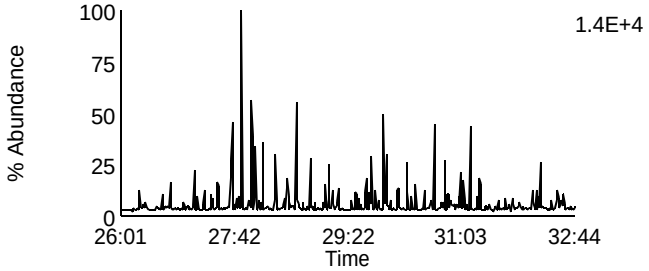


Homologue Group: Pentas

Data File Name: U140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141008 - SMT WI

Lab Sample ID: 10265141008
Client Sample ID: MAK116O
Instrument: 10MSHR06 (U)

Data File: U140512A_16 G2 C1 - 339.8597
SAMP 10265141008 - SMT WI



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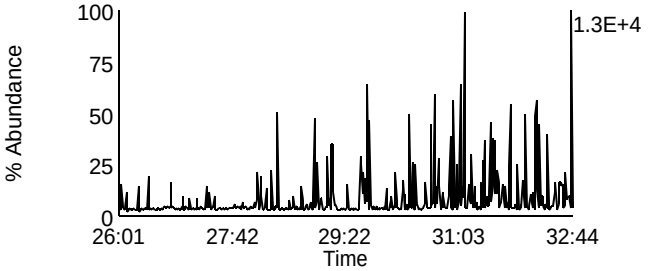
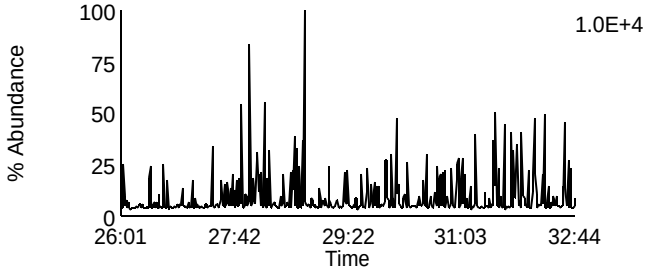
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G2 C2 - 341.8567
SAMP 10265141008 - SMT WI



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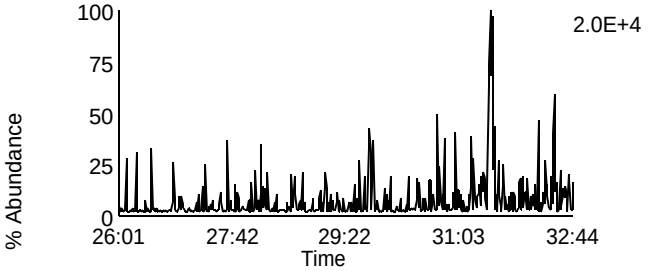
SAMP 10265141008 - SMT WI



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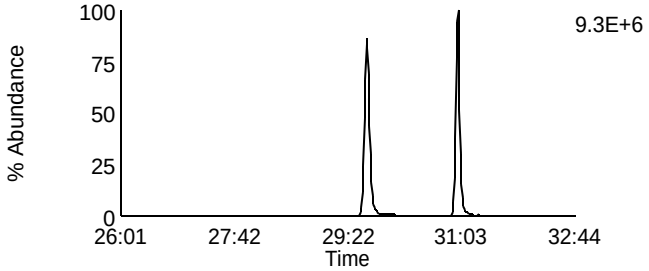
SAMP 10265141008 - SMT WI



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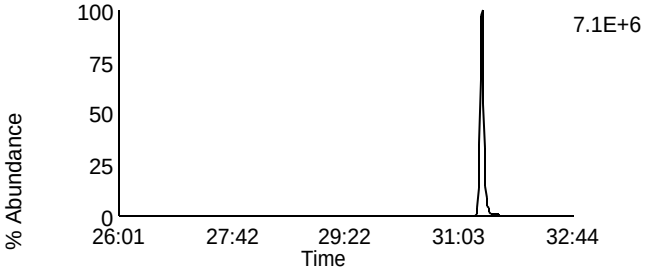
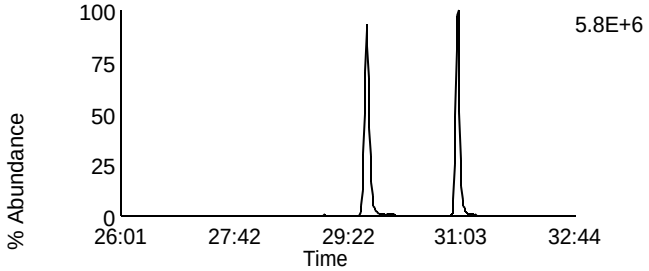
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G2 C5 - 353.8969
SAMP 10265141008 - SMT WI



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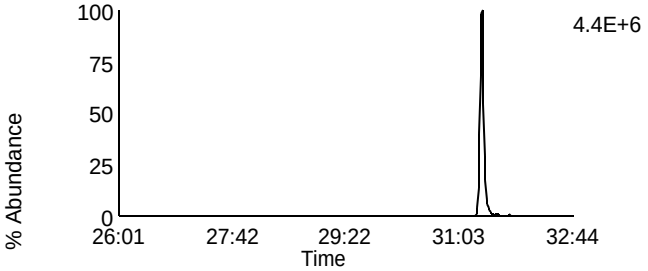
SAMP 10265141008 - SMT WI



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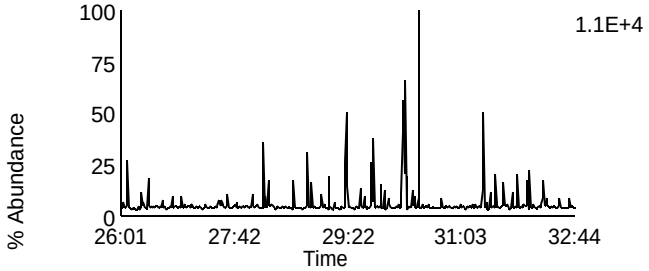
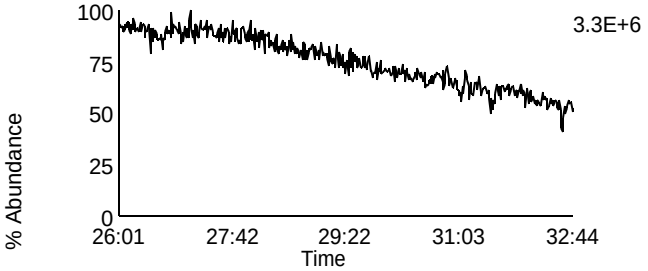
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G2 C6 - 354.9792
SAMP 10265141008 - SMT WI

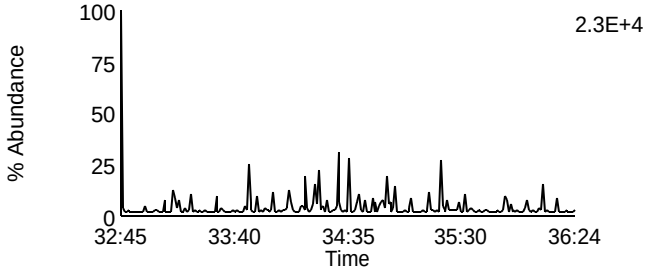


Homologue Group: Hexas

Data File Name: U140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141008 - SMT WI

Lab Sample ID: 10265141008
Client Sample ID: MAK116O
Instrument: 10MSHR06 (U)

Data File: U140512A_16 G3 C1 - 373.8207
SAMP 10265141008 - SMT WI



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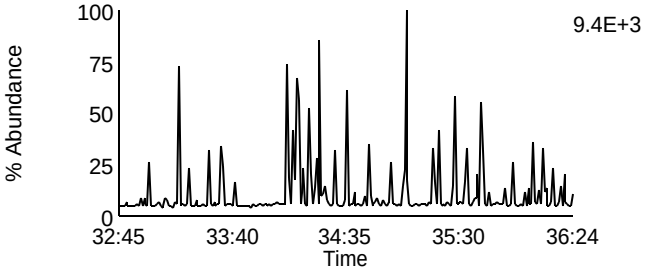
SAMP 10265141008 - SMT WI



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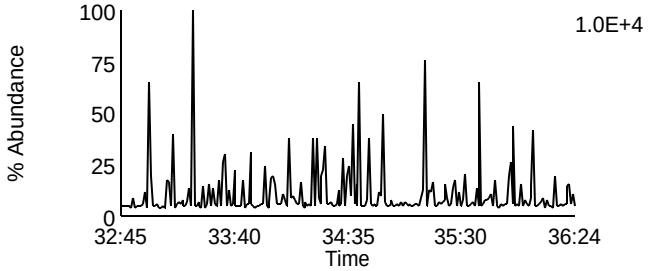
SAMP 10265141008 - SMT WI



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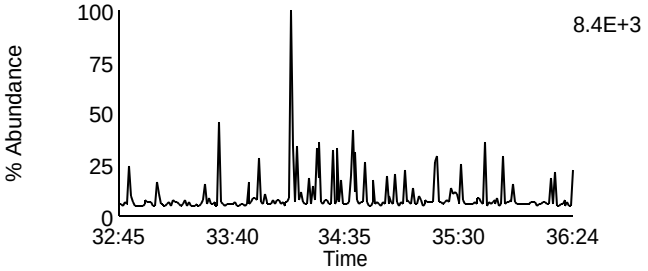
SAMP 10265141008 - SMT WI



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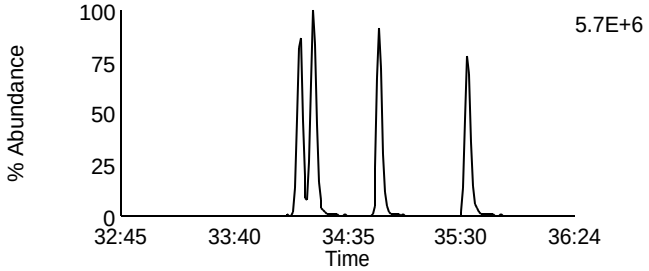
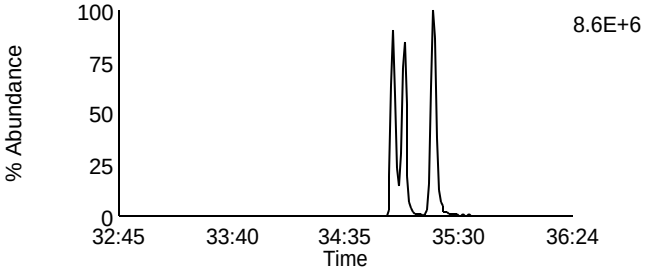
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G3 C9 - 401.8559
SAMP 10265141008 - SMT WI



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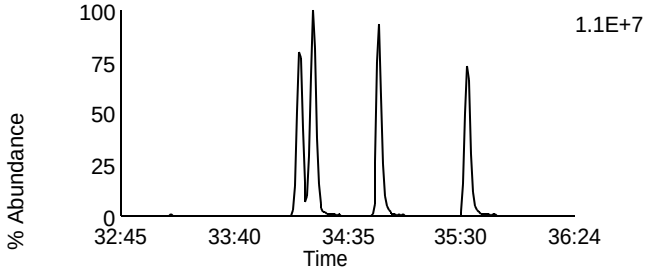
SAMP 10265141008 - SMT WI



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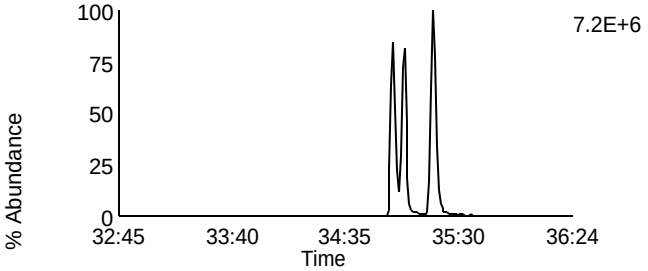

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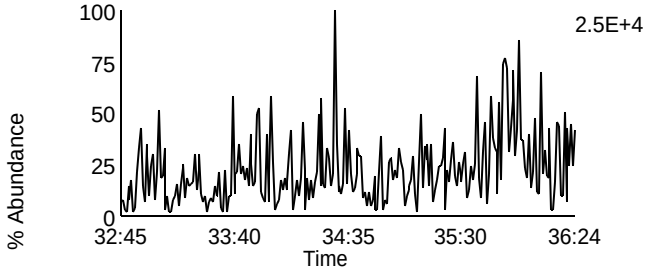
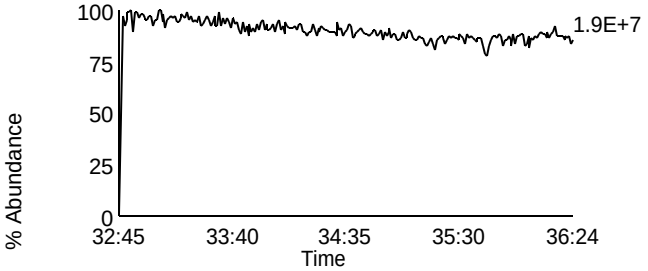
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G3 C3 - 380.976
SAMP 10265141008 - SMT WI

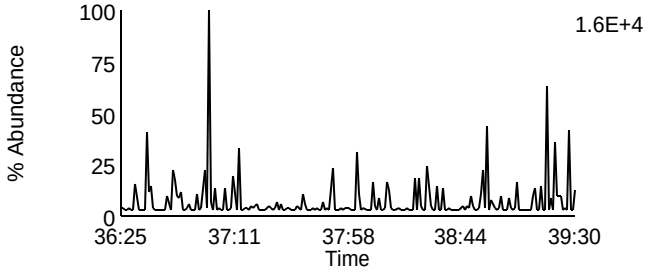


Homologue Group: Heptas

Data File Name: U140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141008 - SMT WI

Lab Sample ID: 10265141008
Client Sample ID: MAK116O
Instrument: 10MSHR06 (U)

Data File: U140512A_16 G4 C3 - 407.7818
SAMP 10265141008 - SMT WI



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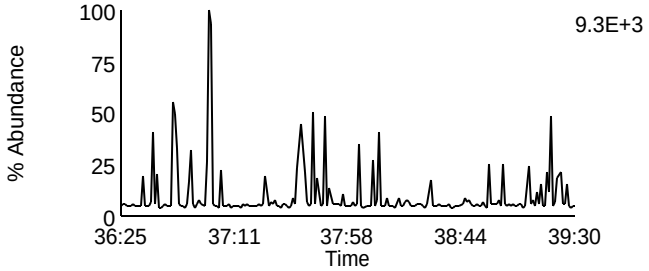
SAMP 10265141008 - SMT WI



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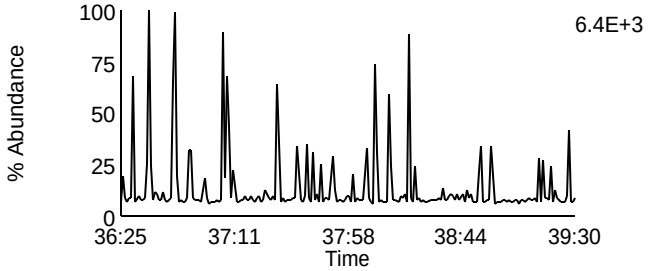
SAMP 10265141008 - SMT WI



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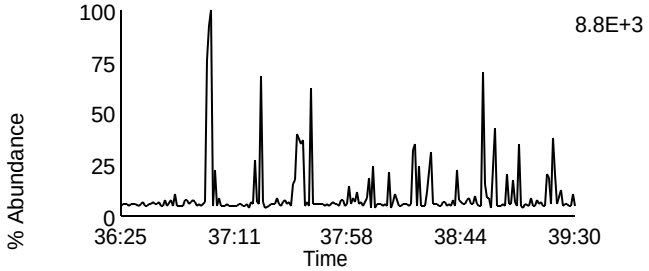
SAMP 10265141008 - SMT WI



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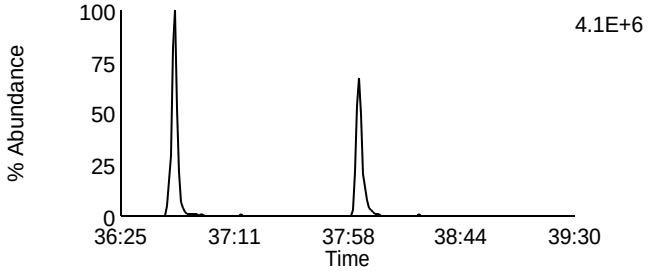
SAMP 10265141008 - SMT WI



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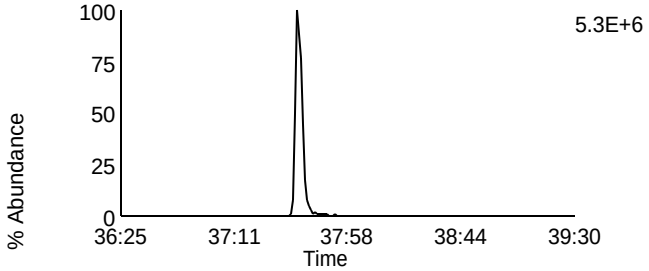
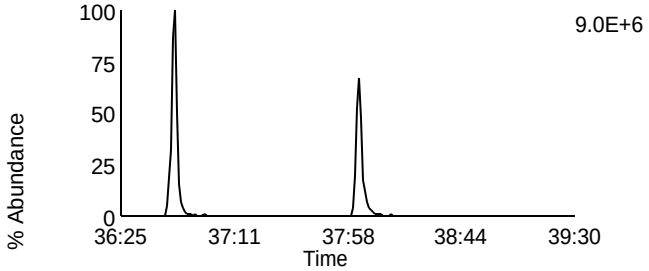
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G4 C7 - 419.822
SAMP 10265141008 - SMT WI



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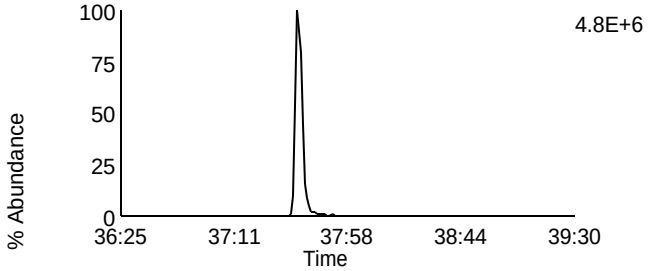
SAMP 10265141008 - SMT WI



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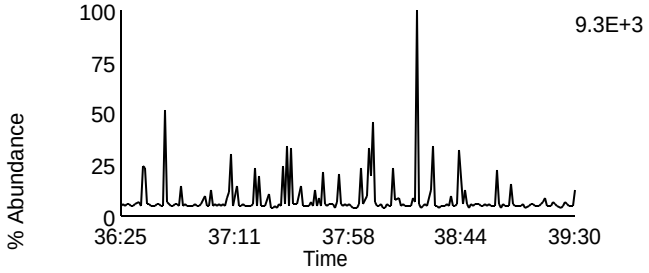
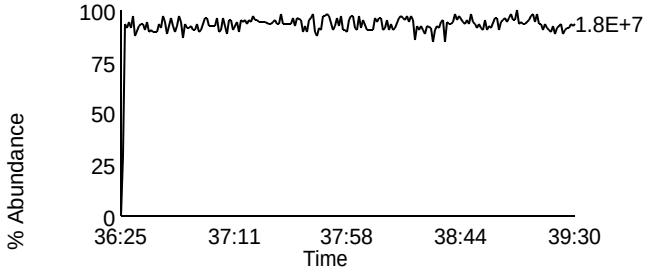
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G4 C1 - 380.976
SAMP 10265141008 - SMT WI

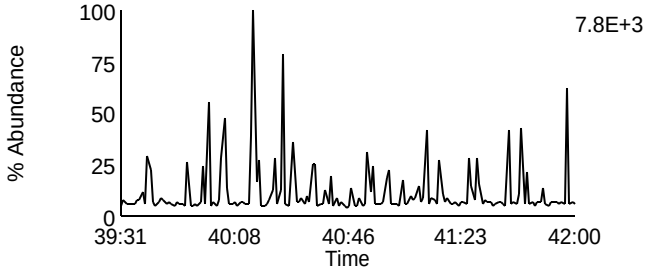


Homologue Group: Octas

Data File Name: U140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141008 - SMT WI

Lab Sample ID: 10265141008
Client Sample ID: MAK116O
Instrument: 10MSHR06 (U)

Data File: U140512A_16 G5 C4 - 441.7428
SAMP 10265141008 - SMT WI



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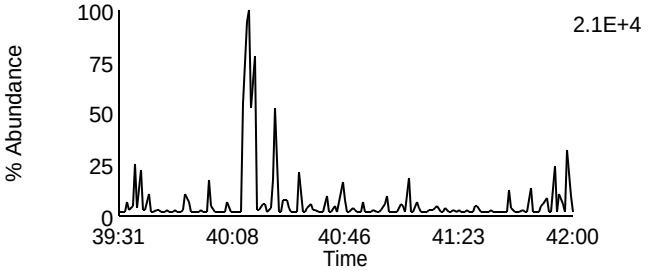
SAMP 10265141008 - SMT WI



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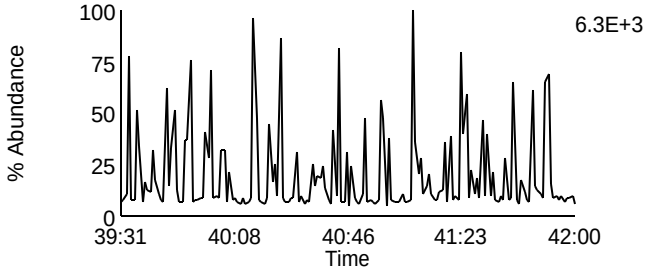
SAMP 10265141008 - SMT WI



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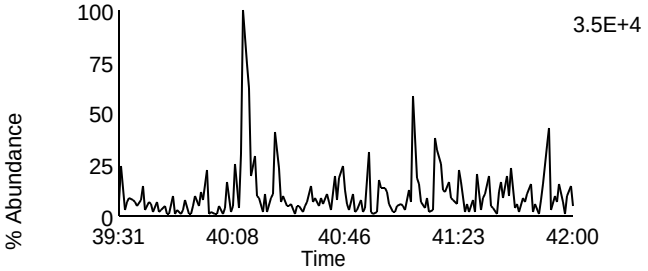
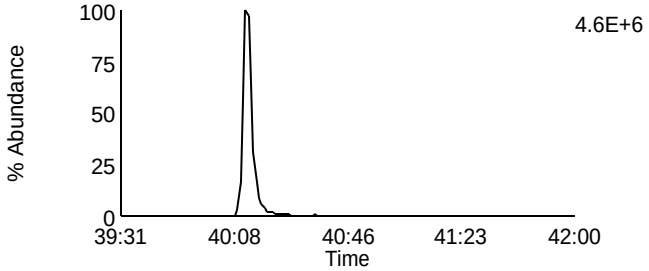
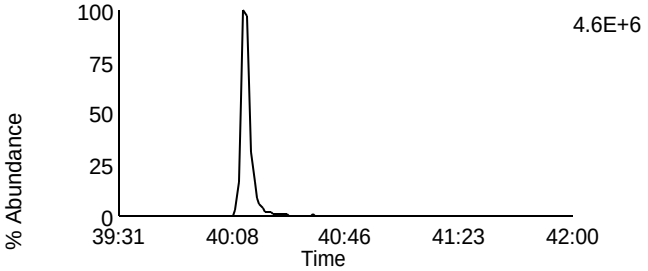
SAMP 10265141008 - SMT WI



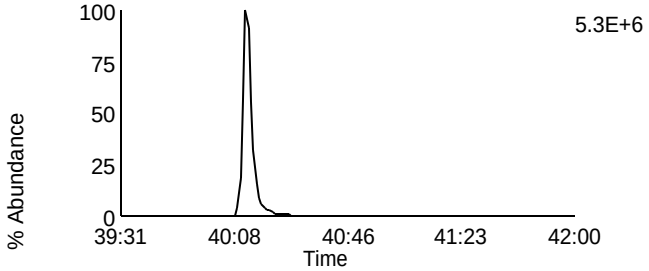
Data File: U140512A_16 G5 C11 - 469.7779
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G5 C11 - 469.7779
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G5 C12 - 471.7749
SAMP 10265141008 - SMT WI



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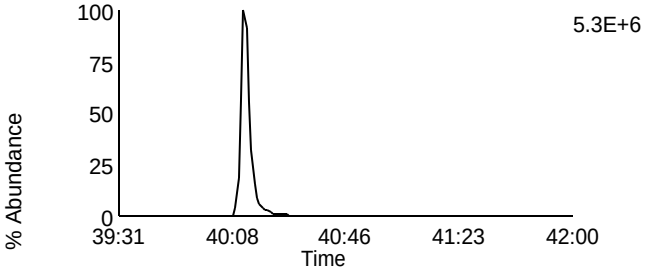
SAMP 10265141008 - SMT WI



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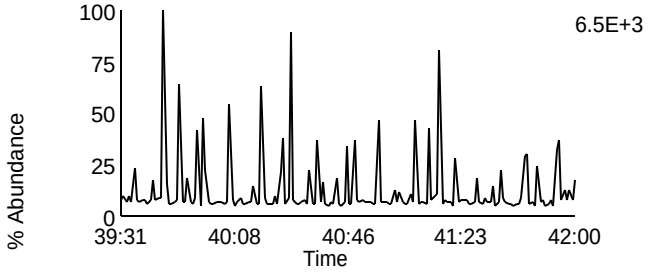
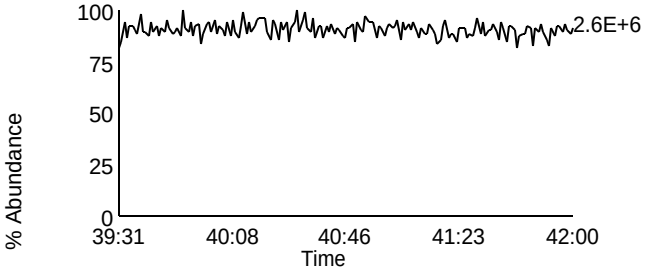
SAMP 10265141008 - SMT WI



Data File: U140512A_16 G5 C2 - 430.9728
SAMP 10265141008 - SMT WI

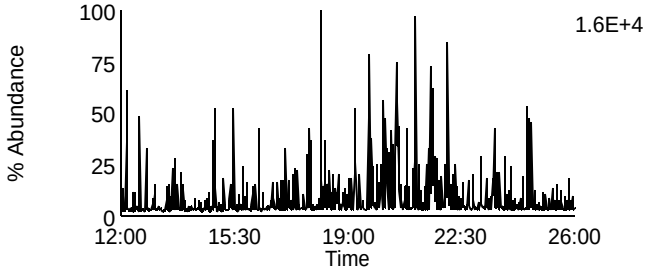


Homologue Group: Tetras

Data File Name: U140513A_13
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141009 - CVS P WI

Lab Sample ID: 10265141009
Client Sample ID: MAK117O
Instrument: 10MSHR06 (U)

Data File: U140513A_13 G1 C1 - 303.9016
SAMP 10265141009 - CVS P WI



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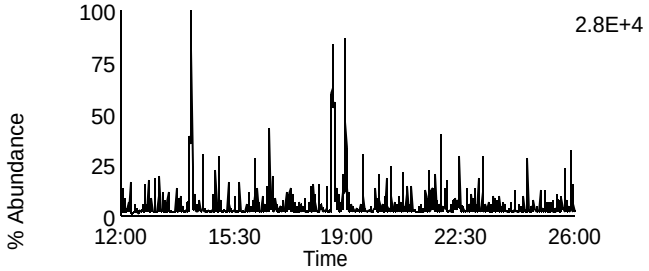
SAMP 10265141009 - CVS P WI



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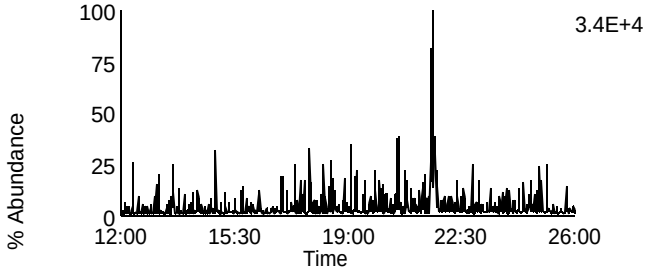
SAMP 10265141009 - CVS P WI



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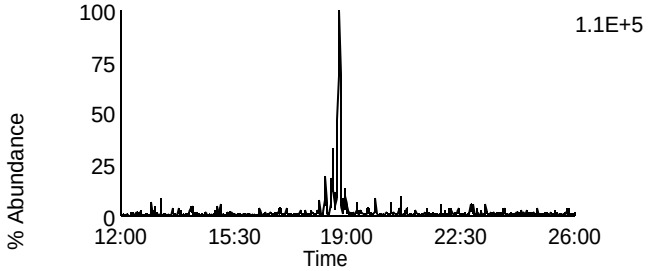
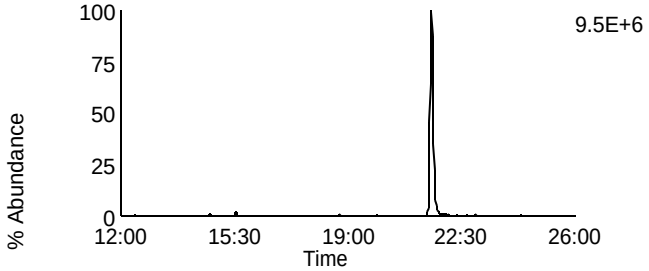
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G1 C3 - 315.9418
SAMP 10265141009 - CVS P WI



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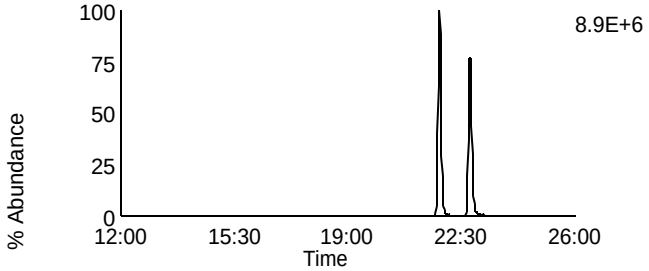
SAMP 10265141009 - CVS P WI



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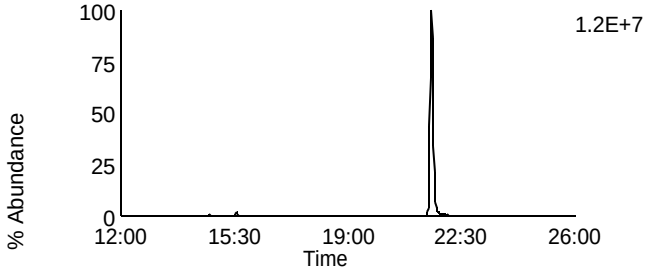
SAMP 10265141009 - CVS P WI



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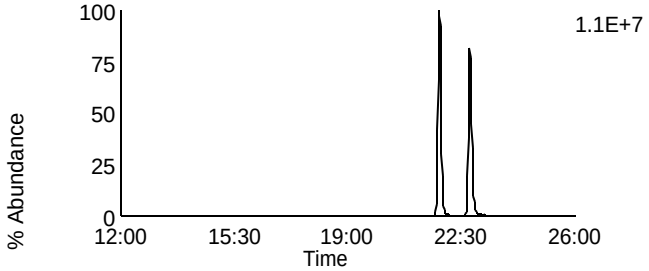
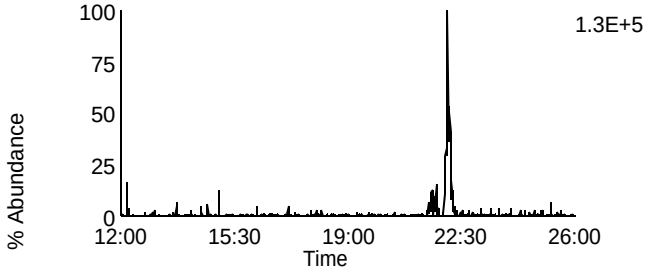
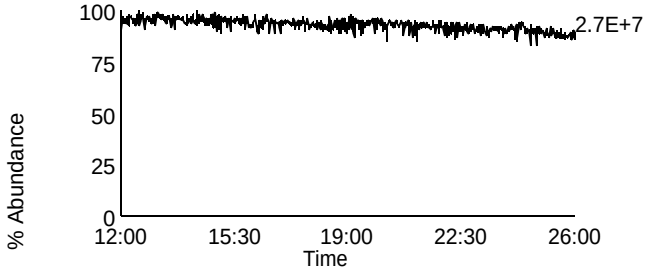
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G1 C14 - 375.8364
SAMP 10265141009 - CVS P WI



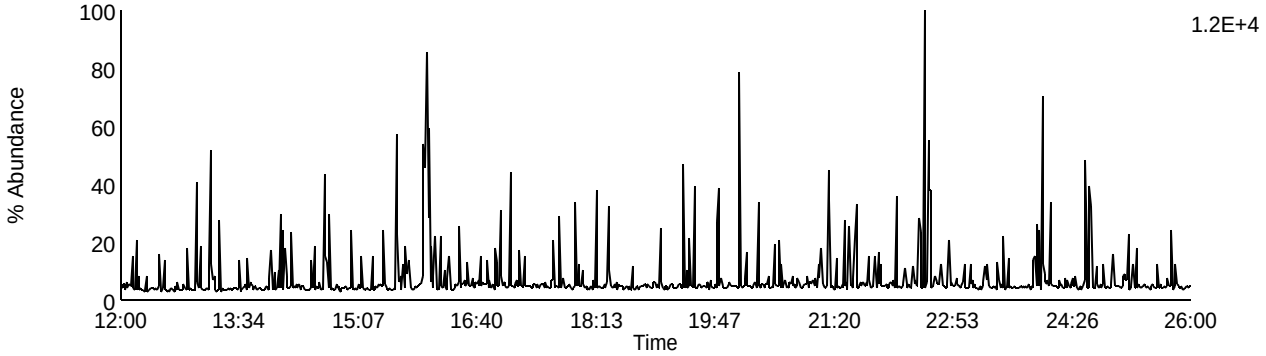
Data File: U140513A_13 G1 C5 - 318.9792
SAMP 10265141009 - CVS P WI



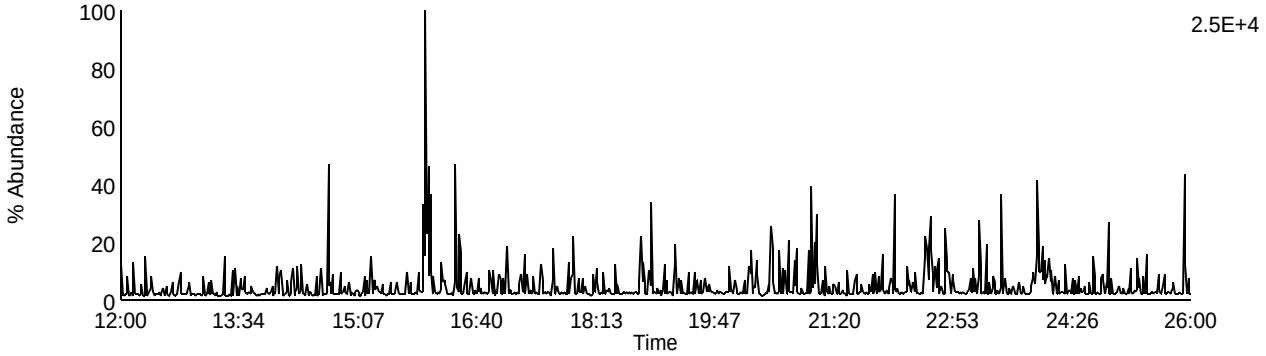
Homologue Group: Penta & Cleanup

Data File Name: U140513A_13	Lab Sample ID: 10265141009
Date Acquired: 5/13/2014	Client Sample ID: MAK117O
Sample Description: SAMP 10265141009 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513A_13 G1 C12 - 339.8597
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G1 C13 - 341.8567
SAMP 10265141009 - CVS P WI



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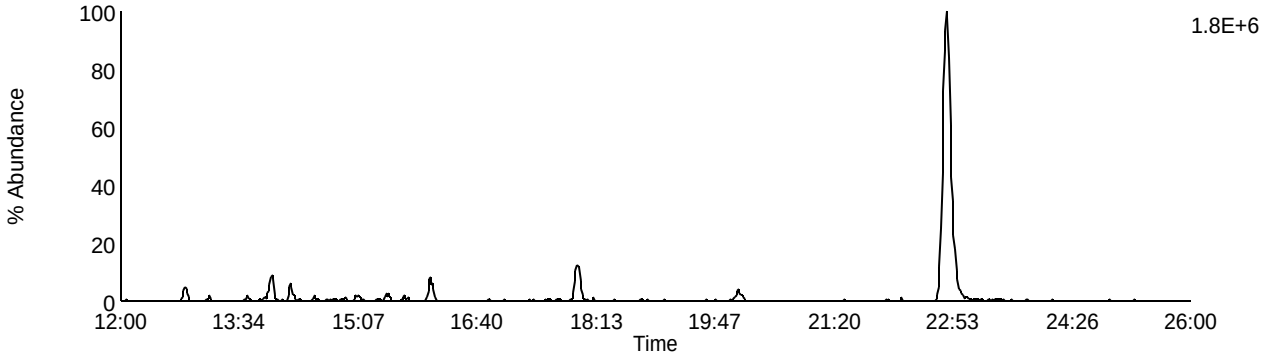
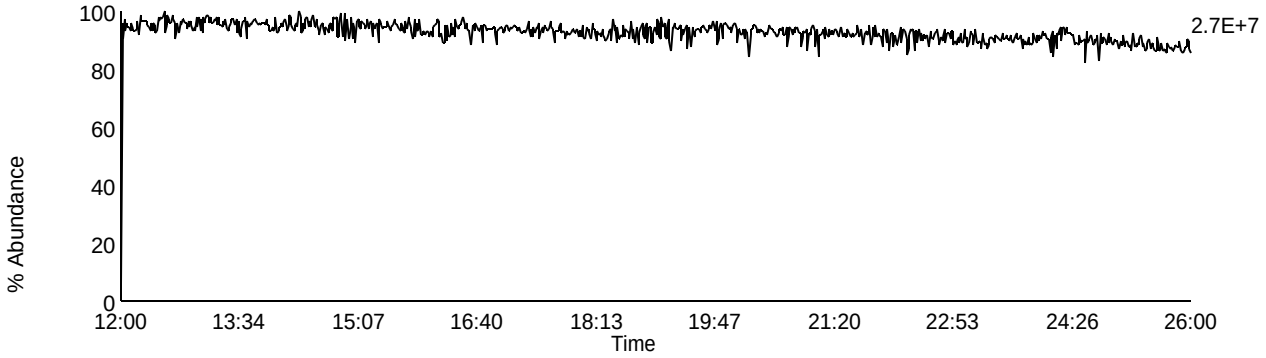
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G1 C5 - 318.9792
SAMP 10265141009 - CVS P WI

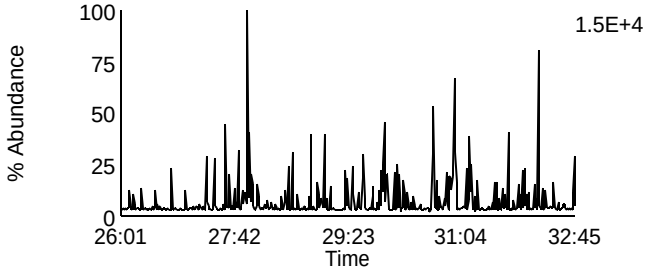


Homologue Group: Pentas

Data File Name: U140513A_13
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141009 - CVS P WI

Lab Sample ID: 10265141009
Client Sample ID: MAK117O
Instrument: 10MSHR06 (U)

Data File: U140513A_13 G2 C1 - 339.8597
SAMP 10265141009 - CVS P WI



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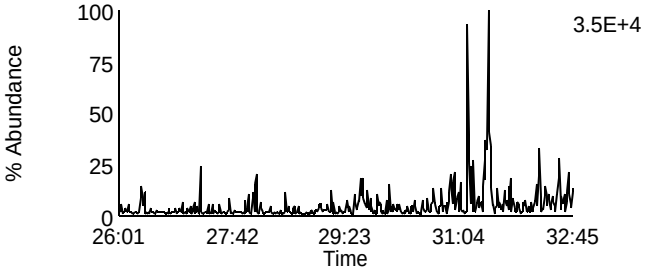
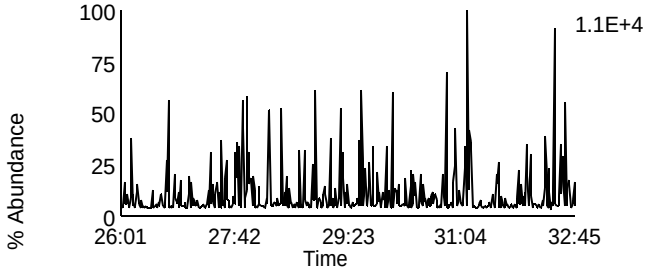
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G2 C2 - 341.8567
SAMP 10265141009 - CVS P WI



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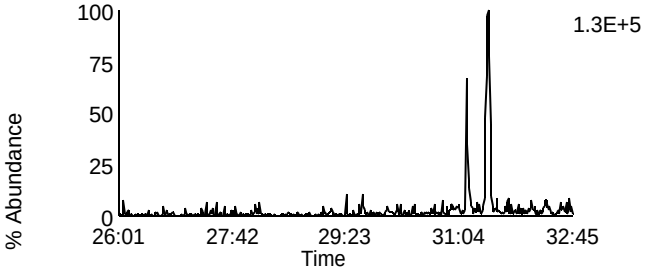
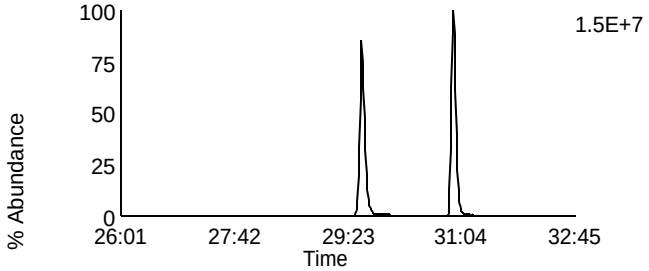
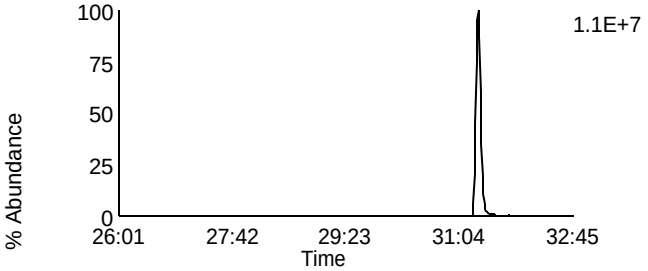
SAMP 10265141009 - CVS P WI



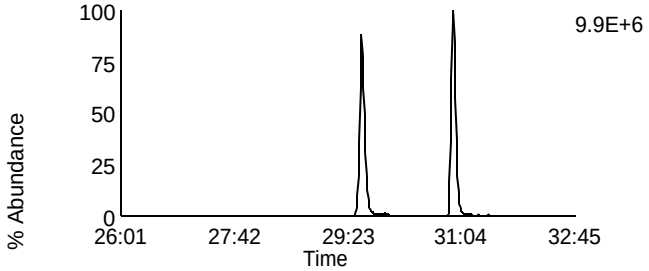
Data File: U140513A_13 G2 C3 - 351.8999
SAMP 10265141009 - CVS P WI



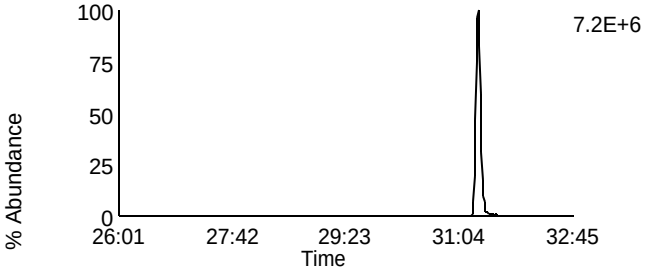
Data File: U140513A_13 G2 C10 - 367.8948
SAMP 10265141009 - CVS P WI



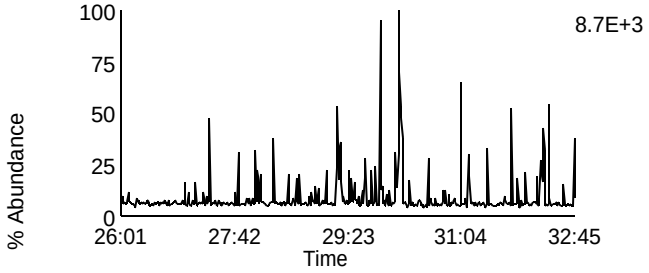
Data File: U140513A_13 G2 C5 - 353.8969
SAMP 10265141009 - CVS P WI



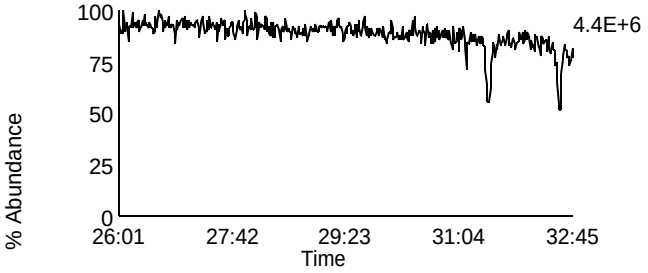
Data File: U140513A_13 G2 C11 - 369.8918
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G2 C12 - 409.7974
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G2 C6 - 354.9792
SAMP 10265141009 - CVS P WI

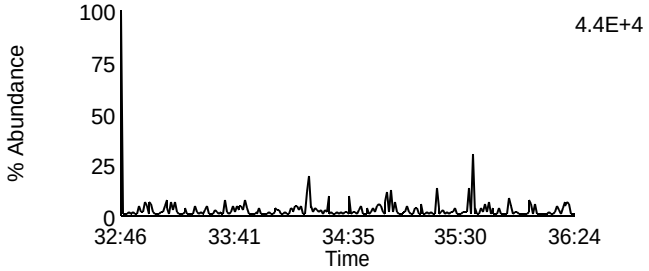


Homologue Group: Hexas

Data File Name: U140513A_13
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141009 - CVS P WI

Lab Sample ID: 10265141009
Client Sample ID: MAK117O
Instrument: 10MSHR06 (U)

Data File: U140513A_13 G3 C1 - 373.8207
SAMP 10265141009 - CVS P WI



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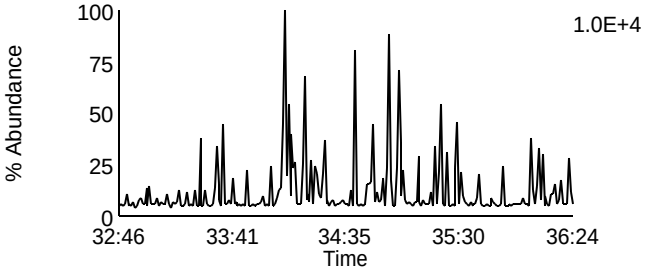
SAMP 10265141009 - CVS P WI



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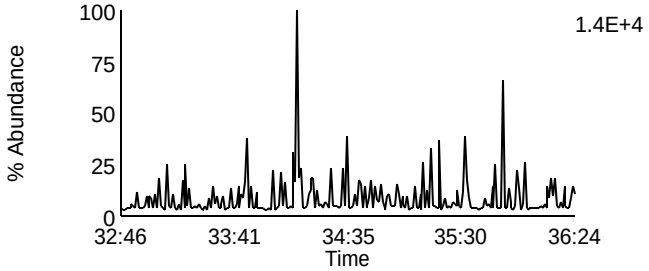
SAMP 10265141009 - CVS P WI



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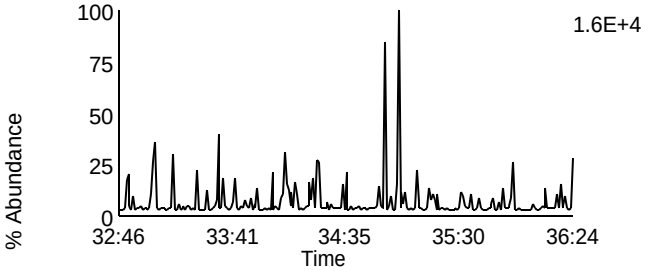
SAMP 10265141009 - CVS P WI



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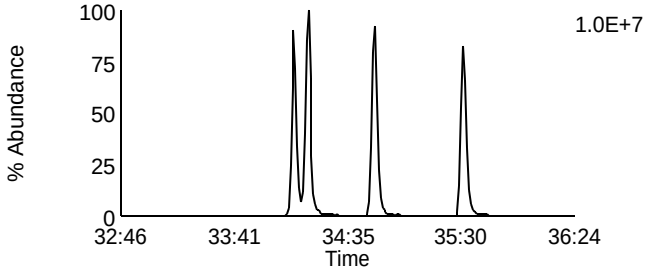
SAMP 10265141009 - CVS P WI



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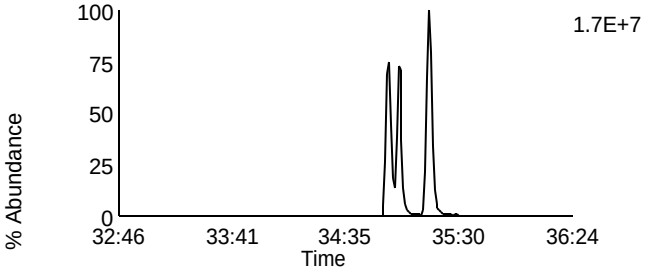
SAMP 10265141009 - CVS P WI



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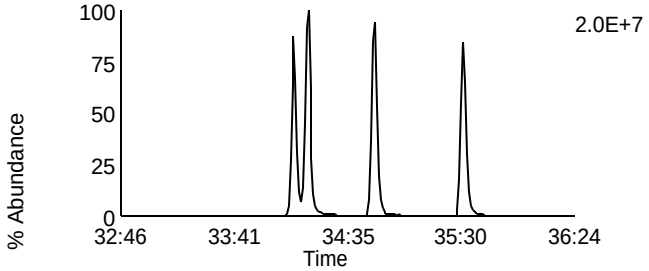
SAMP 10265141009 - CVS P WI



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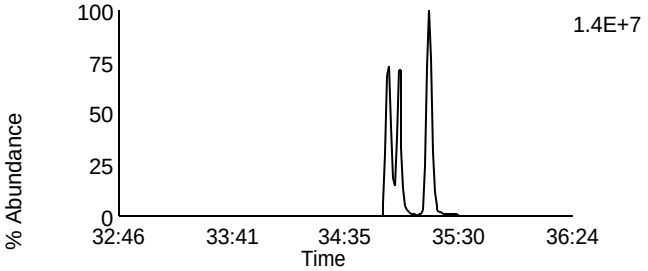

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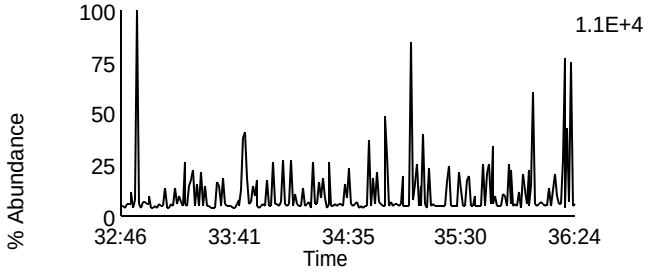
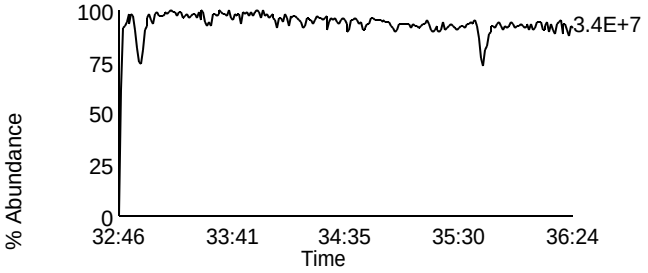
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G3 C3 - 380.976
SAMP 10265141009 - CVS P WI

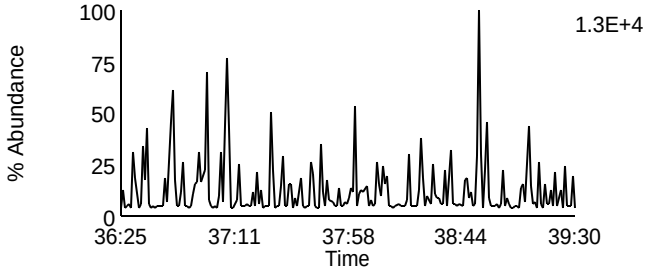


Homologue Group: Heptas

Data File Name: U140513A_13
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141009 - CVS P WI

Lab Sample ID: 10265141009
Client Sample ID: MAK117O
Instrument: 10MSHR06 (U)

Data File: U140513A_13 G4 C3 - 407.7818
SAMP 10265141009 - CVS P WI



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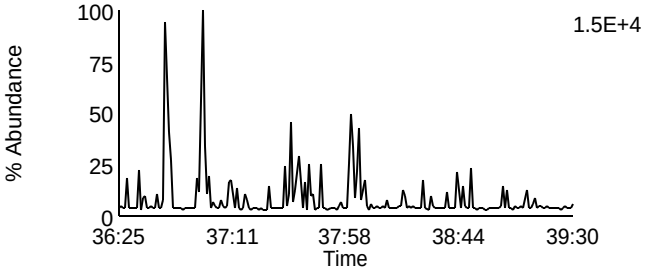
SAMP 10265141009 - CVS P WI



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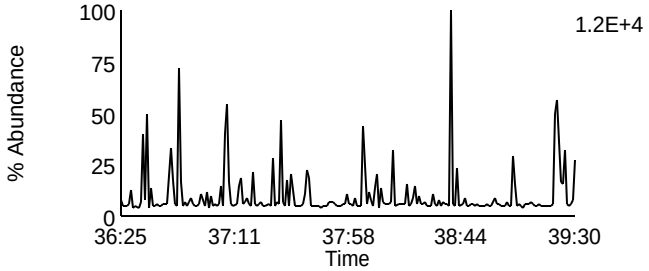

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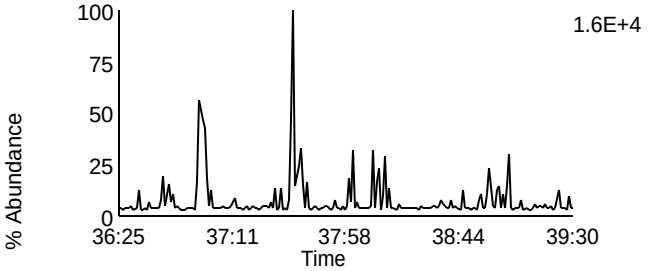
SAMP 10265141009 - CVS P WI



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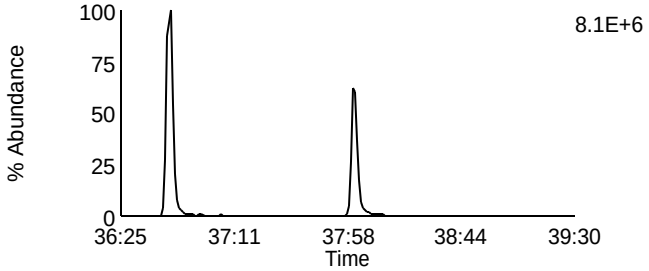
SAMP 10265141009 - CVS P WI



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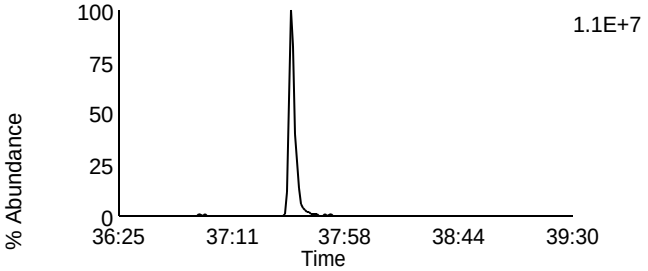
SAMP 10265141009 - CVS P WI



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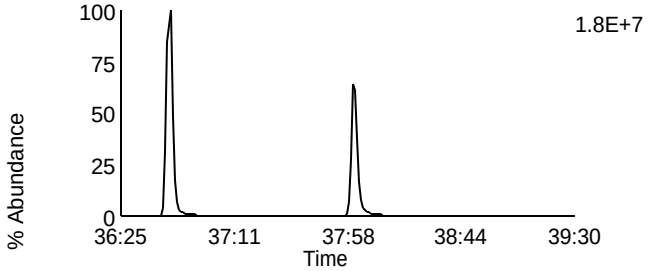
SAMP 10265141009 - CVS P WI



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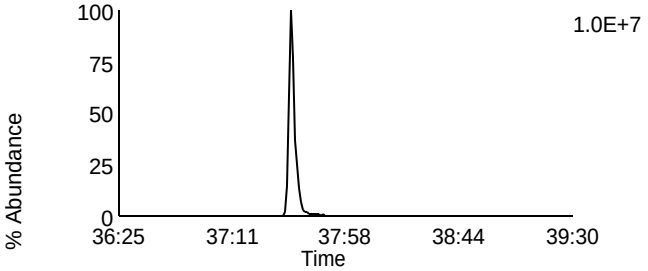

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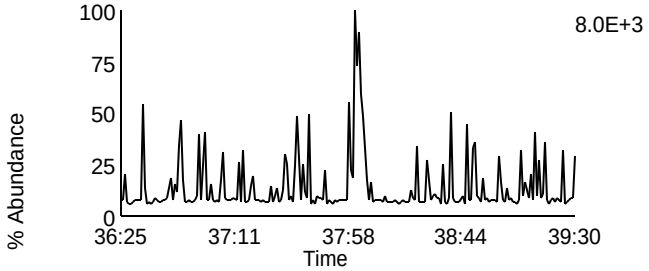
SAMP 10265141009 - CVS P WI



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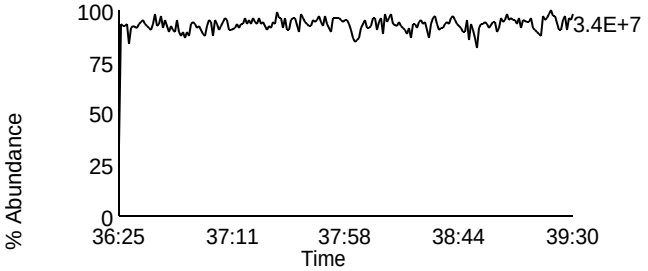
SAMP 10265141009 - CVS P WI

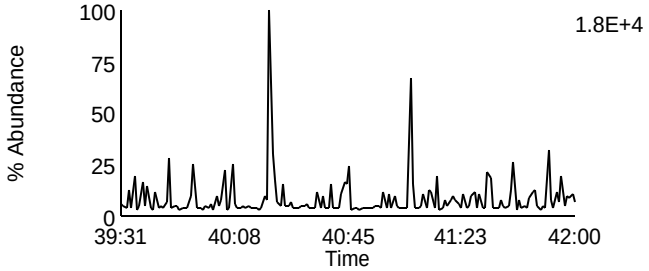


Homologue Group: Octas

Data File Name: U140513A_13
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141009 - CVS P WI

Lab Sample ID: 10265141009
Client Sample ID: MAK117O
Instrument: 10MSHR06 (U)

Data File: U140513A_13 G5 C4 - 441.7428
SAMP 10265141009 - CVS P WI



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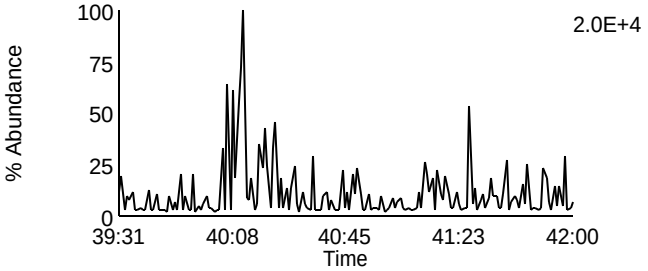
SAMP 10265141009 - CVS P WI



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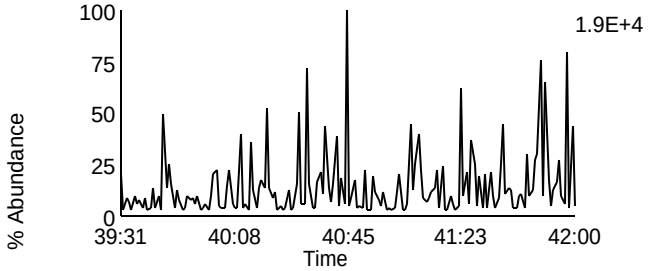
SAMP 10265141009 - CVS P WI



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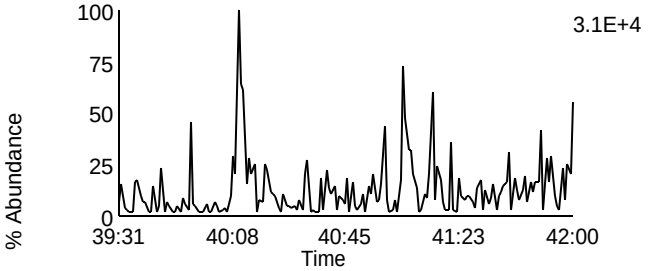
SAMP 10265141009 - CVS P WI



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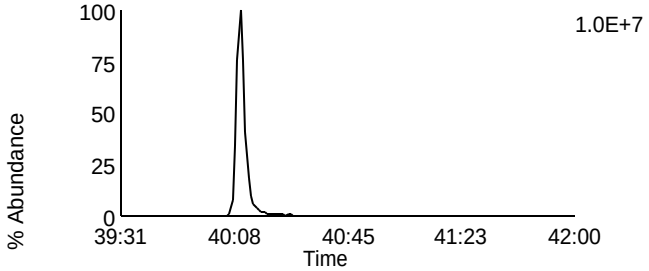
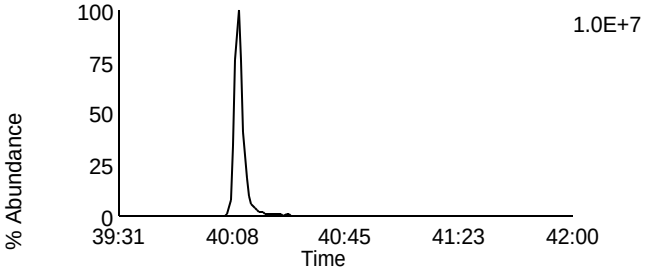
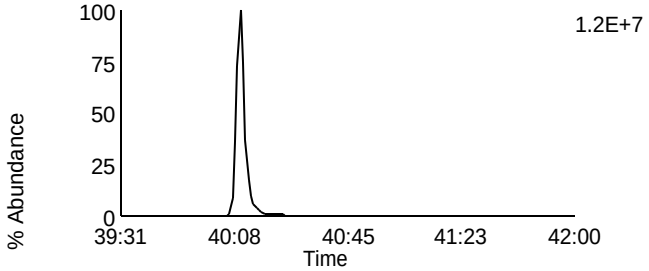
SAMP 10265141009 - CVS P WI



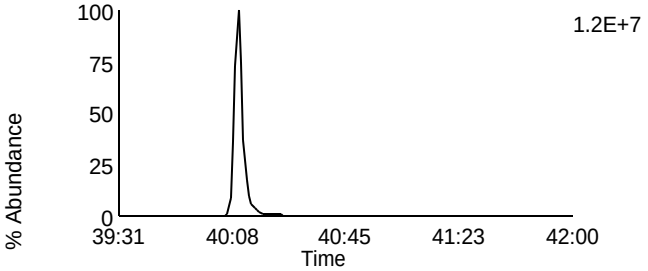
Data File: U140513A_13 G5 C11 - 469.7779
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G5 C12 - 471.7749
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G5 C12 - 471.7749
SAMP 10265141009 - CVS P WI



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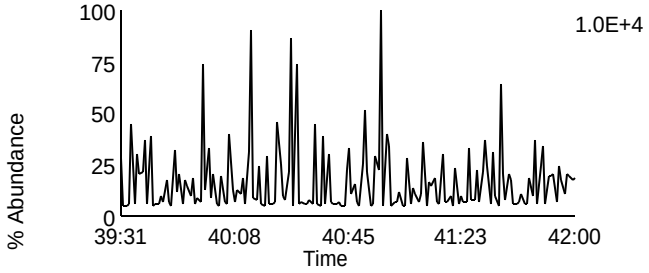
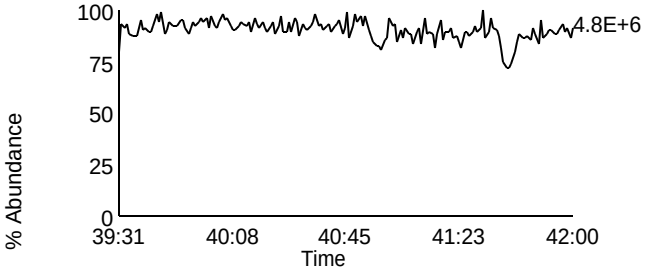
SAMP 10265141009 - CVS P WI



Data File: U140513A_13 G5 C2 - 430.9728
SAMP 10265141009 - CVS P WI

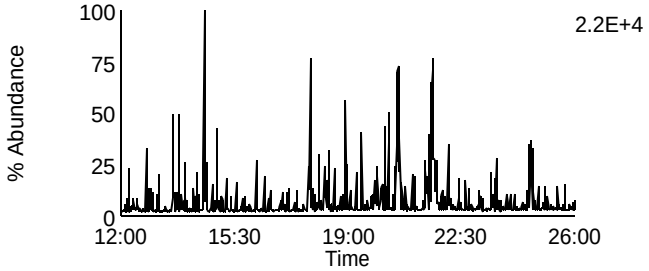


Homologue Group: Tetras

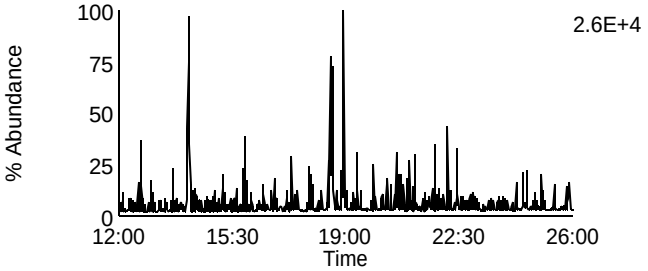
Data File Name: U140513A_14
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141010 - CVS P WI

Lab Sample ID: 10265141010
Client Sample ID: MAK118O
Instrument: 10MSHR06 (U)

Data File: U140513A_14 G1 C1 - 303.9016
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G1 C7 - 319.8965
SAMP 10265141010 - CVS P WI



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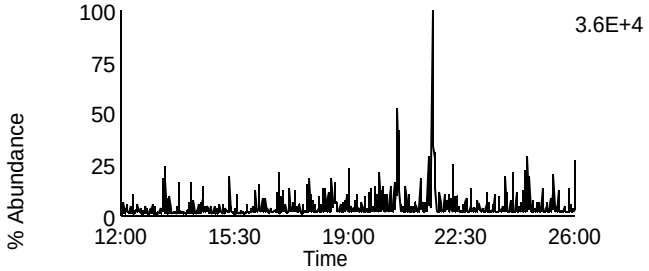
SAMP 10265141010 - CVS P WI



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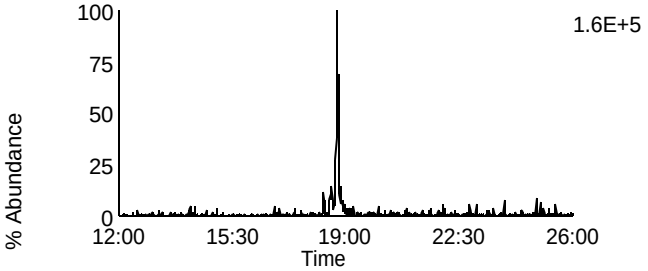
SAMP 10265141010 - CVS P WI



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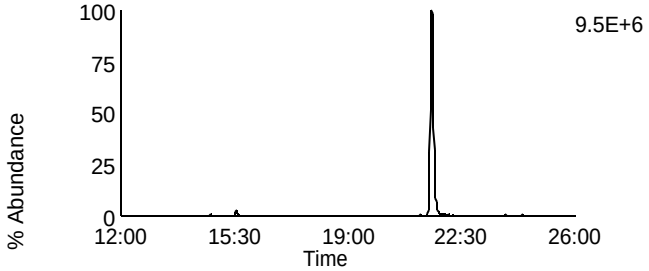
SAMP 10265141010 - CVS P WI



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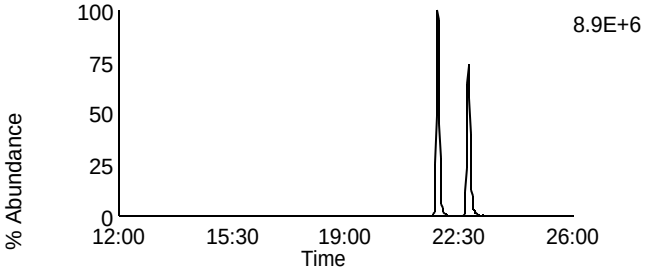
SAMP 10265141010 - CVS P WI



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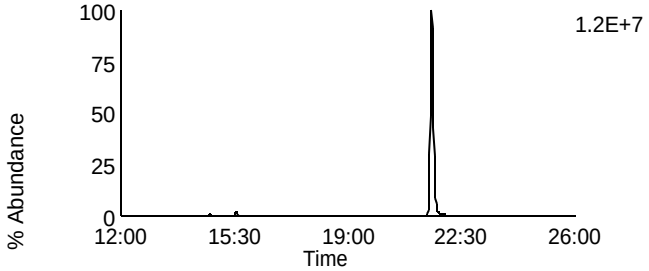
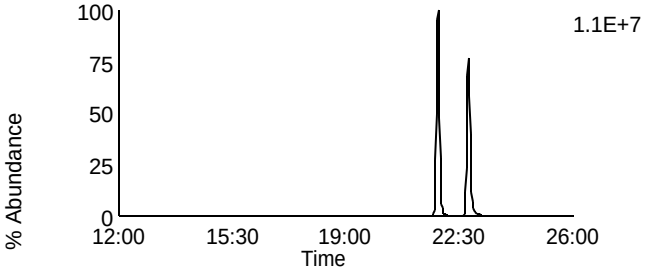
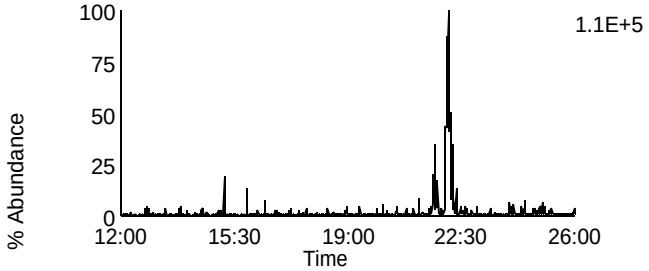
SAMP 10265141010 - CVS P WI



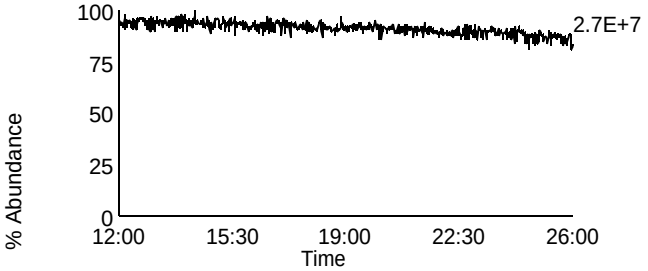
Data File: U140513A_14 G1 C11 - 333.9338
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G1 C14 - 375.8364
SAMP 10265141010 - CVS P WI



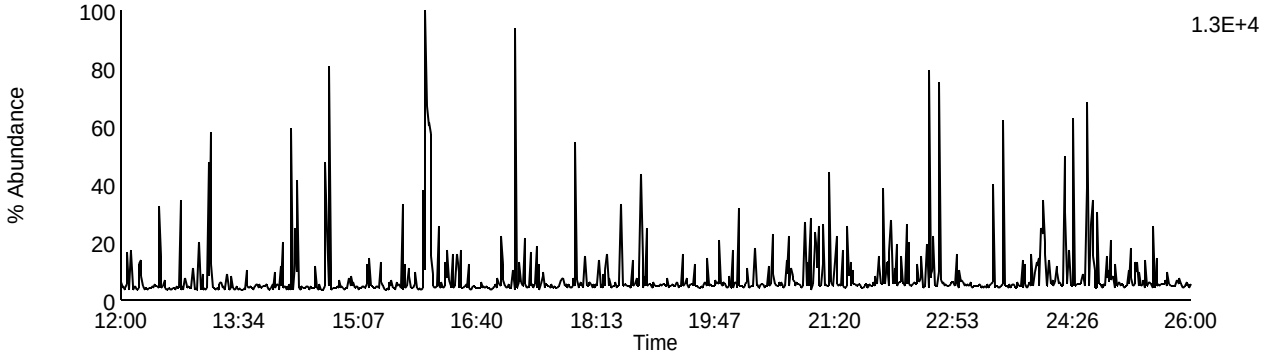
Data File: U140513A_14 G1 C5 - 318.9792
SAMP 10265141010 - CVS P WI



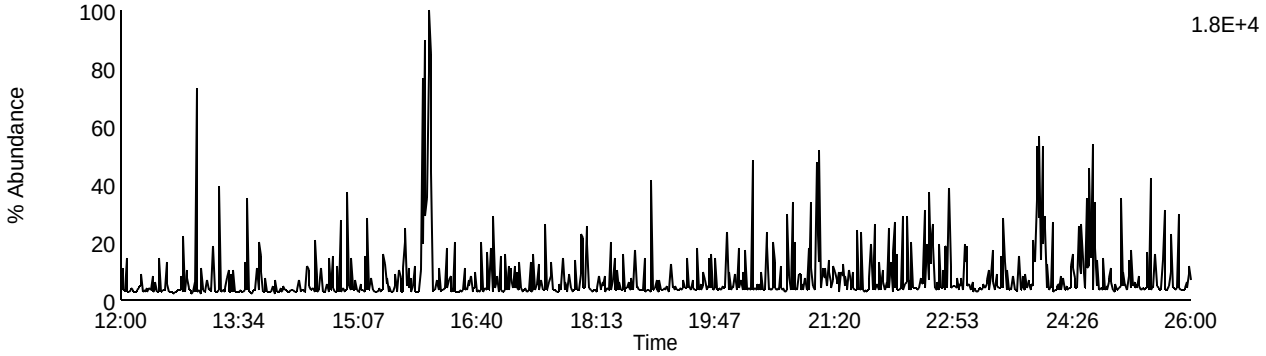
Homologue Group: Penta & Cleanup

Data File Name: U140513A_14	Lab Sample ID: 10265141010
Date Acquired: 5/13/2014	Client Sample ID: MAK118O
Sample Description: SAMP 10265141010 - CVS P WI	Instrument: 10MSHR06 (U)

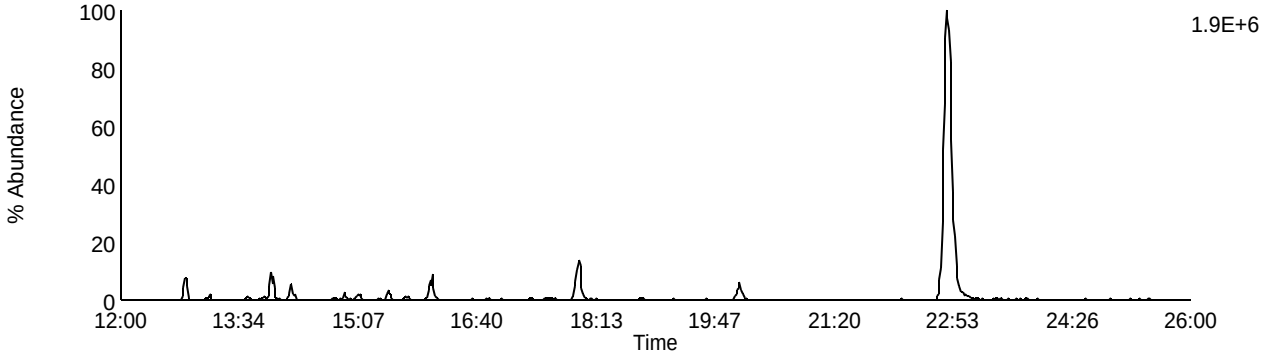
Data File: U140513A_14 G1 C12 - 339.8597
SAMP 10265141010 - CVS P WI



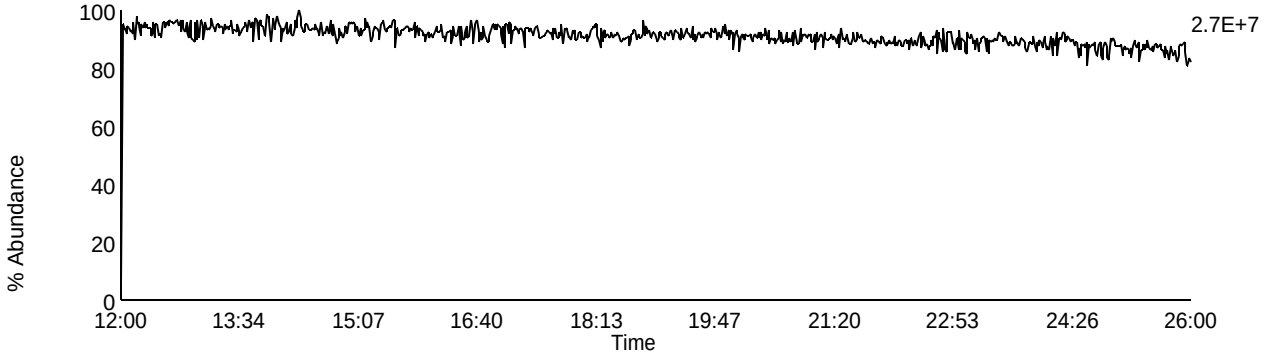
Data File: U140513A_14 G1 C13 - 341.8567
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G1 C9 - 327.8847
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G1 C5 - 318.9792
SAMP 10265141010 - CVS P WI

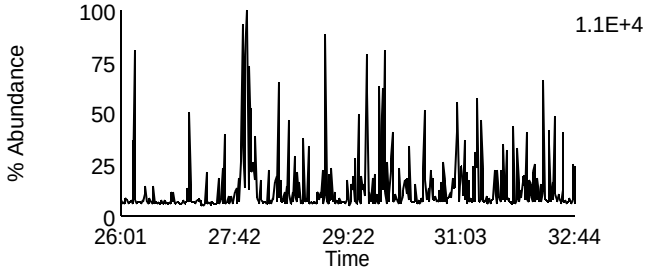


Homologue Group: Pentas

Data File Name: U140513A_14
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141010 - CVS P WI

Lab Sample ID: 10265141010
Client Sample ID: MAK118O
Instrument: 10MSHR06 (U)

Data File: U140513A_14 G2 C1 - 339.8597
SAMP 10265141010 - CVS P WI



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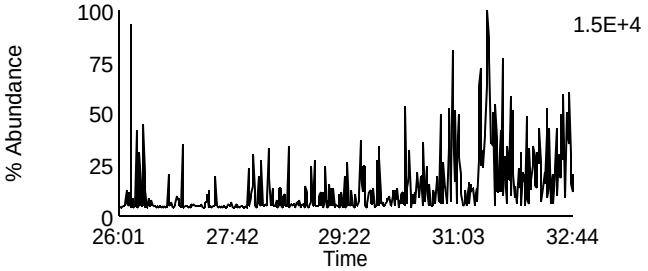
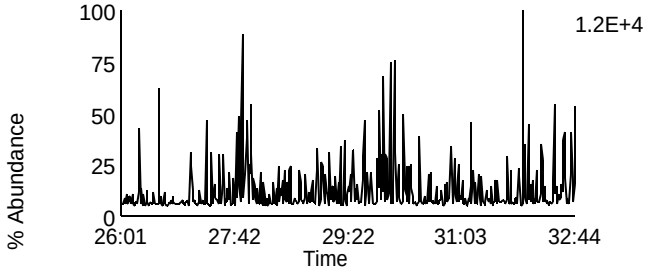
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G2 C2 - 341.8567
SAMP 10265141010 - CVS P WI



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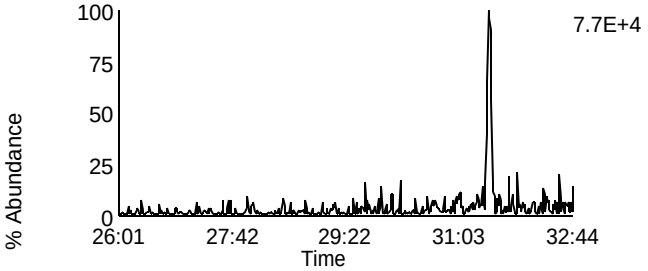
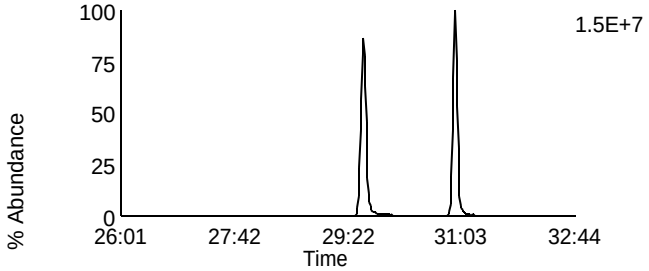
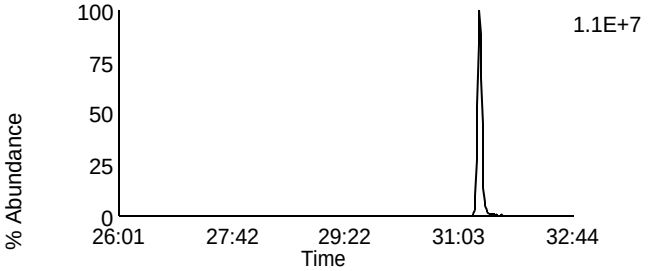
SAMP 10265141010 - CVS P WI



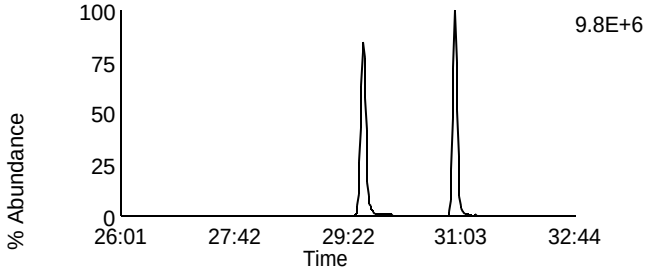
Data File: U140513A_14 G2 C3 - 351.8999
SAMP 10265141010 - CVS P WI



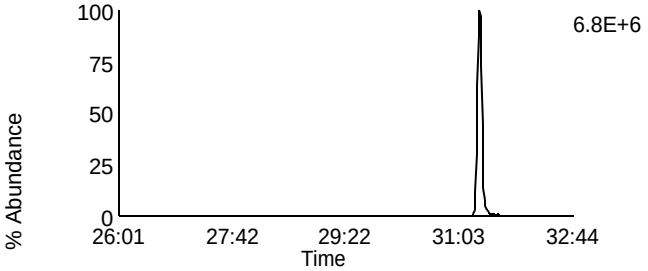
Data File: U140513A_14 G2 C10 - 367.8948
SAMP 10265141010 - CVS P WI



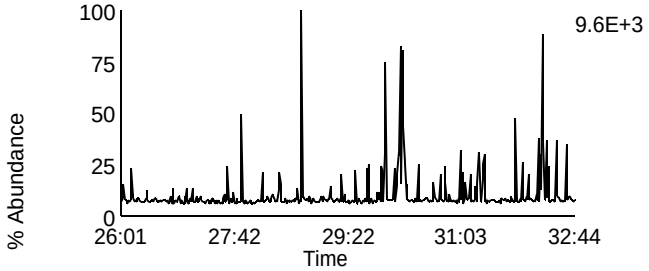
Data File: U140513A_14 G2 C5 - 353.8969
SAMP 10265141010 - CVS P WI



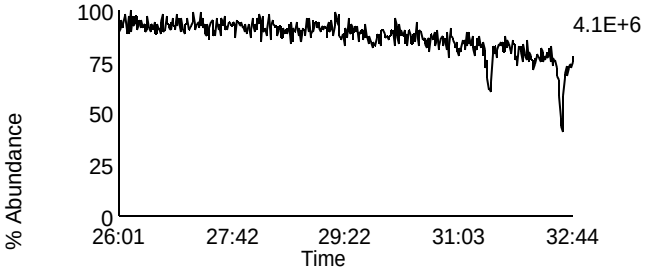
Data File: U140513A_14 G2 C11 - 369.8918
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G2 C12 - 409.7974
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G2 C6 - 354.9792
SAMP 10265141010 - CVS P WI

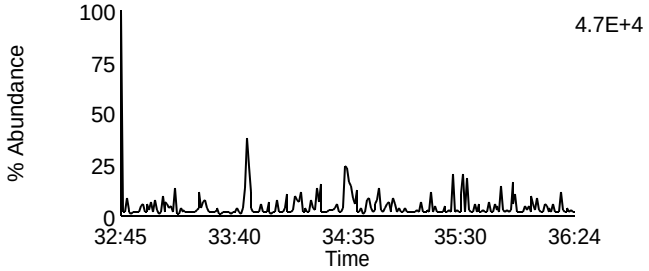


Homologue Group: Hexas

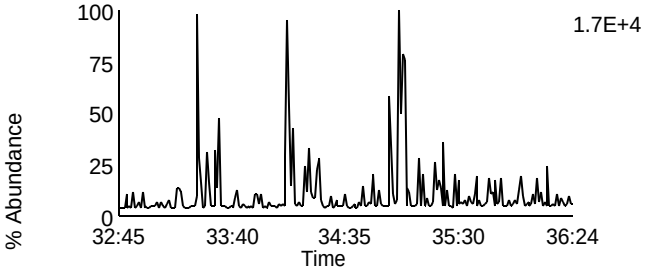
Data File Name: U140513A_14
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141010 - CVS P WI

Lab Sample ID: 10265141010
Client Sample ID: MAK118O
Instrument: 10MSHR06 (U)

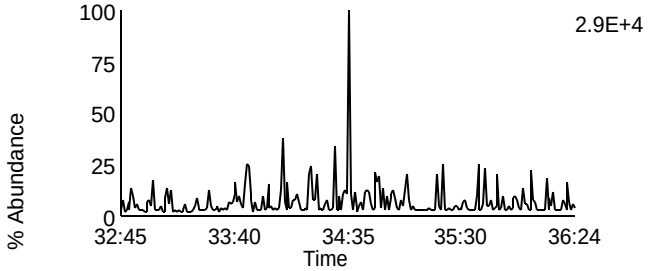
Data File: U140513A_14 G3 C1 - 373.8207
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G3 C7 - 389.8156
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G3 C2 - 375.8178
SAMP 10265141010 - CVS P WI



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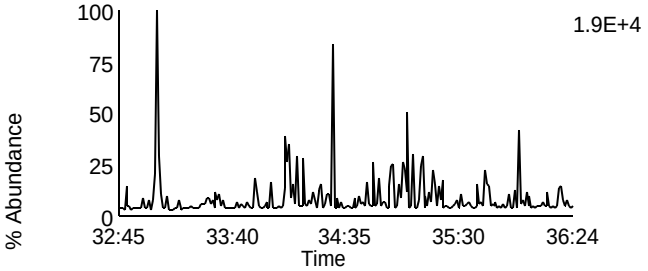
SAMP 10265141010 - CVS P WI



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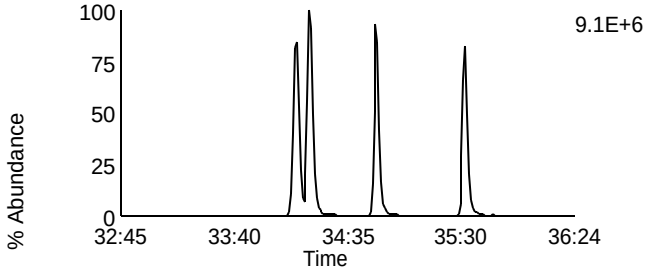
SAMP 10265141010 - CVS P WI



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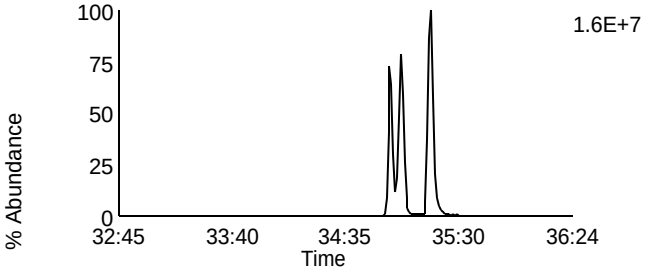
SAMP 10265141010 - CVS P WI



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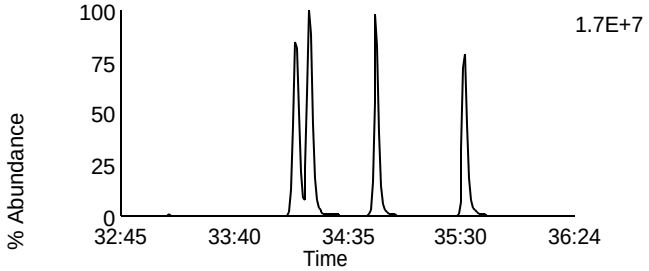

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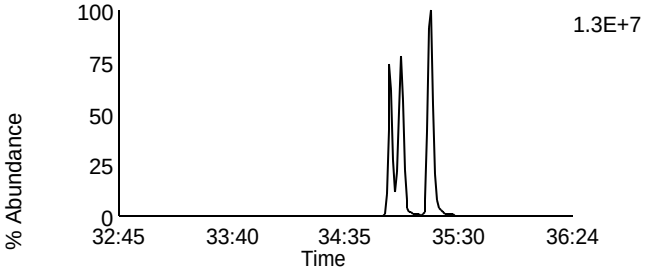

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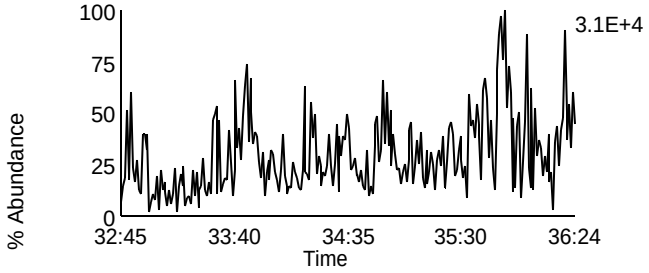
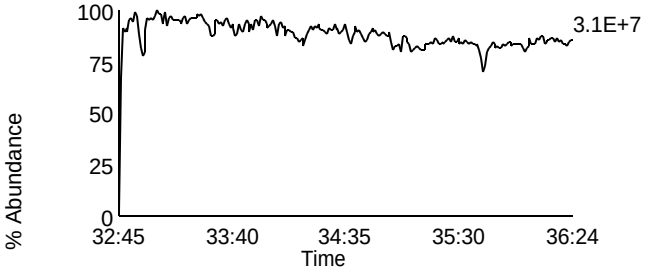


Data File: U140513A_14 G3 C3 - 380.976
SAMP 10265141010 - CVS P WI

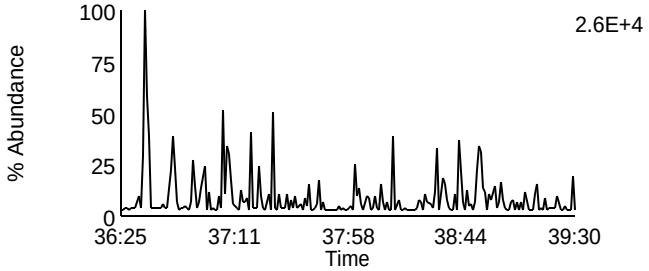


Homologue Group: Heptas

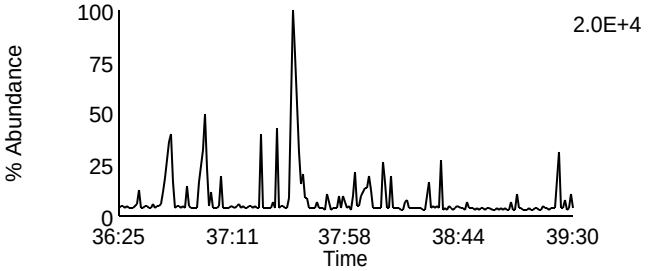
Data File Name: U140513A_14
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141010 - CVS P WI

Lab Sample ID: 10265141010
Client Sample ID: MAK118O
Instrument: 10MSHR06 (U)

Data File: U140513A_14 G4 C3 - 407.7818
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G4 C8 - 423.7767
SAMP 10265141010 - CVS P WI



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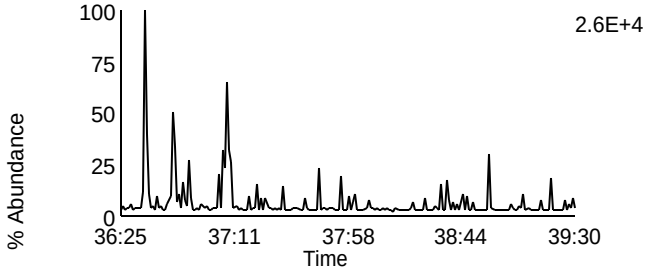
SAMP 10265141010 - CVS P WI



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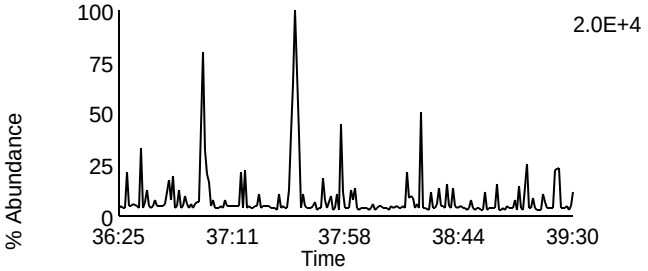
SAMP 10265141010 - CVS P WI



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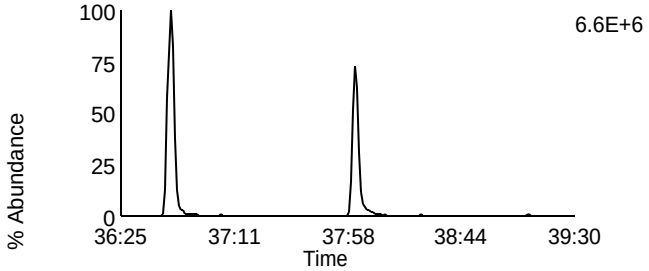
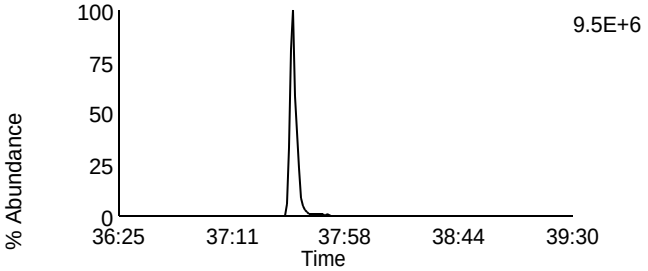
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G4 C11 - 435.8169
SAMP 10265141010 - CVS P WI



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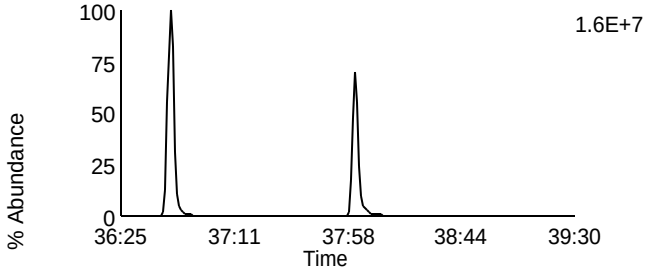
SAMP 10265141010 - CVS P WI



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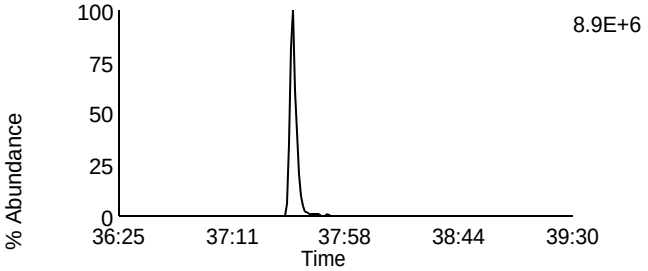
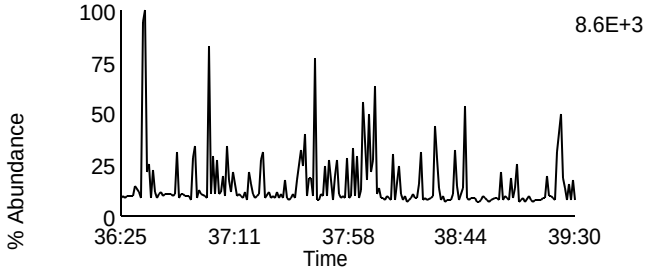
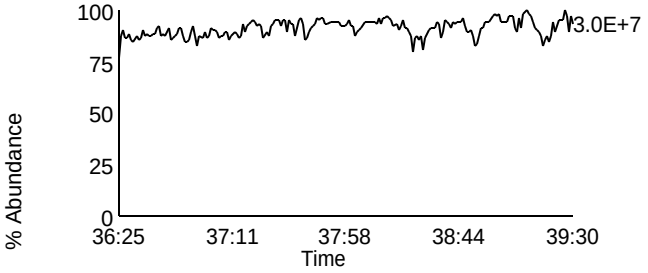
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G4 C13 - 479.7165
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G4 C1 - 380.976
SAMP 10265141010 - CVS P WI

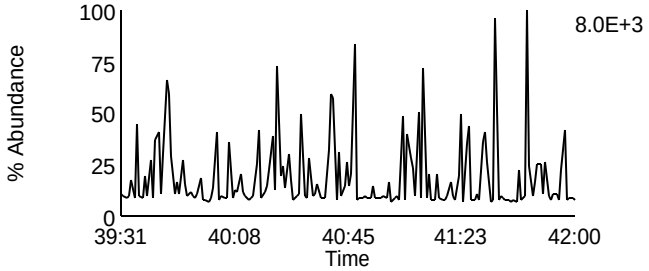


Homologue Group: Octas

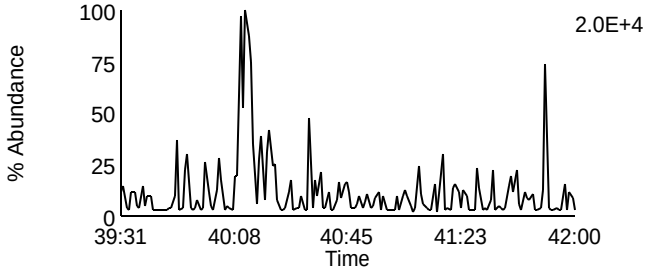
Data File Name: U140513A_14
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141010 - CVS P WI

Lab Sample ID: 10265141010
Client Sample ID: MAK118O
Instrument: 10MSHR06 (U)

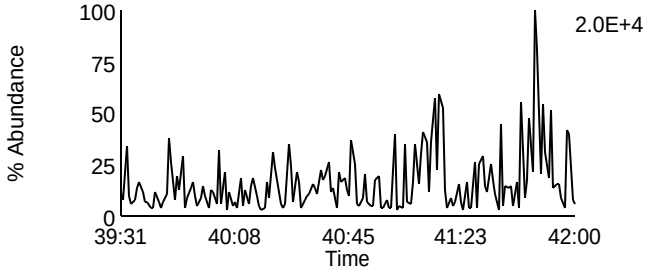
Data File: U140513A_14 G5 C4 - 441.7428
SAMP 10265141010 - CVS P WI



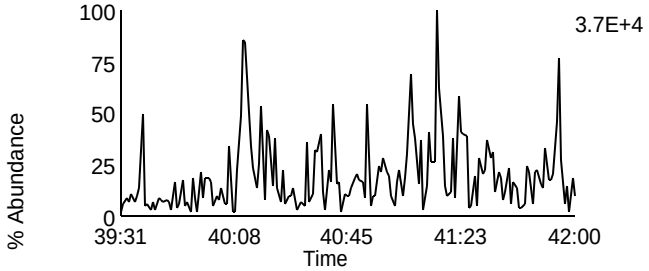
Data File: U140513A_14 G5 C8 - 457.7377
SAMP 10265141010 - CVS P WI



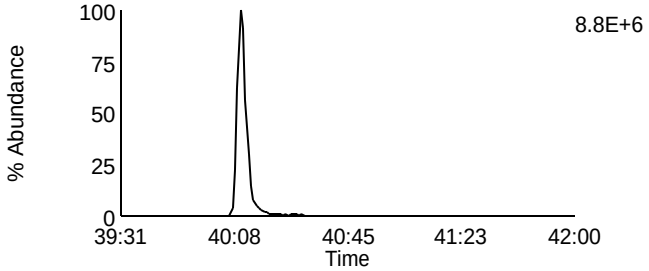
Data File: U140513A_14 G5 C5 - 443.7398
SAMP 10265141010 - CVS P WI



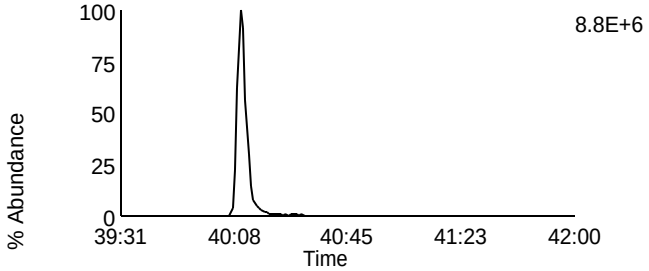
Data File: U140513A_14 G5 C9 - 459.7347
SAMP 10265141010 - CVS P WI



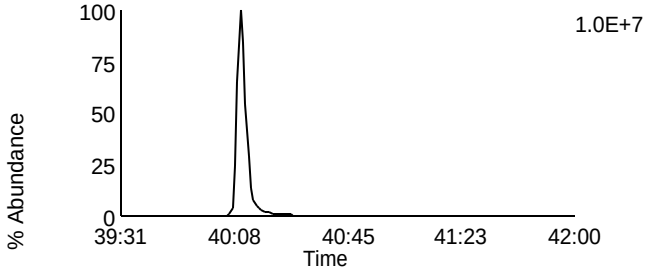
Data File: U140513A_14 G5 C11 - 469.7779
SAMP 10265141010 - CVS P WI



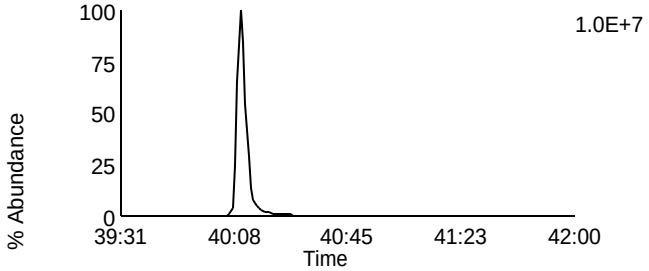
Data File: U140513A_14 G5 C11 - 469.7779
SAMP 10265141010 - CVS P WI



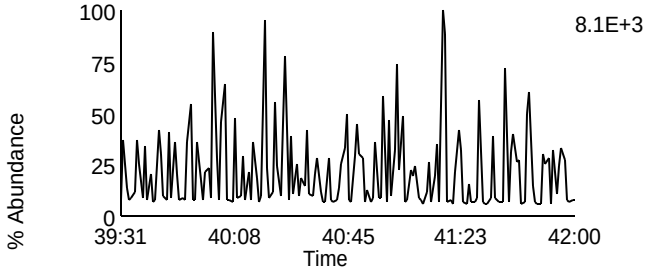
Data File: U140513A_14 G5 C12 - 471.7749
SAMP 10265141010 - CVS P WI



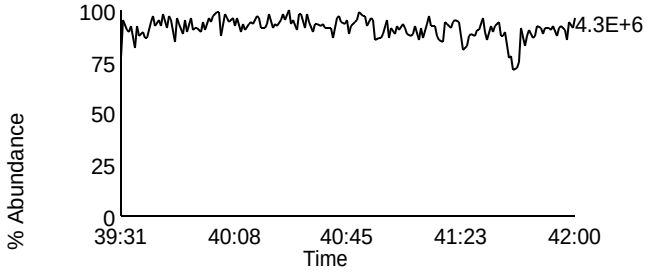
Data File: U140513A_14 G5 C12 - 471.7749
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G5 C13 - 513.6775
SAMP 10265141010 - CVS P WI



Data File: U140513A_14 G5 C2 - 430.9728
SAMP 10265141010 - CVS P WI

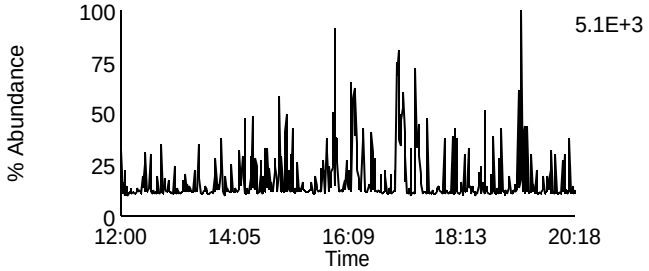


Homologue Group: Tetras

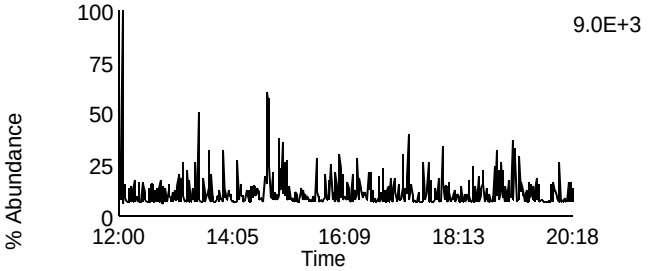
Data File Name: F140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141011 - SMT WI

Lab Sample ID: 10265141011
Client Sample ID: MAK119O
Instrument: 10MSHR05 (F)

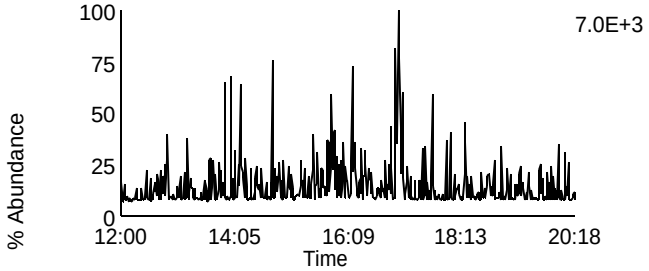
Data File: F140512A_10 G1 C1 - 303.9016
SAMP 10265141011 - SMT WI



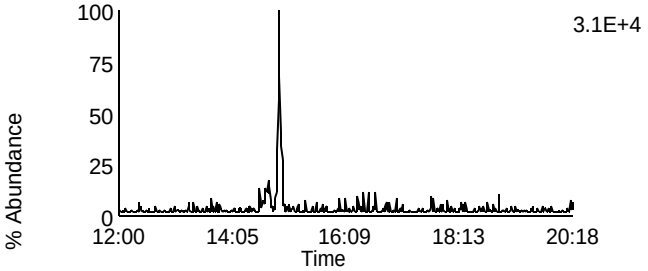
Data File: F140512A_10 G1 C7 - 319.8965
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C2 - 305.8987
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C8 - 321.8936
SAMP 10265141011 - SMT WI



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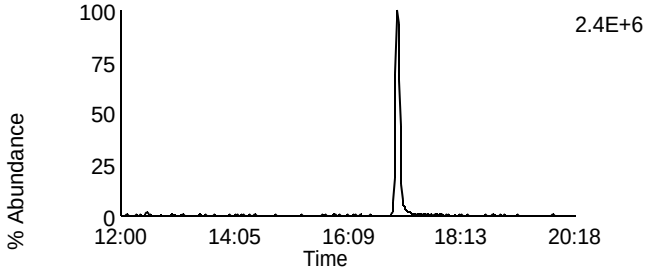
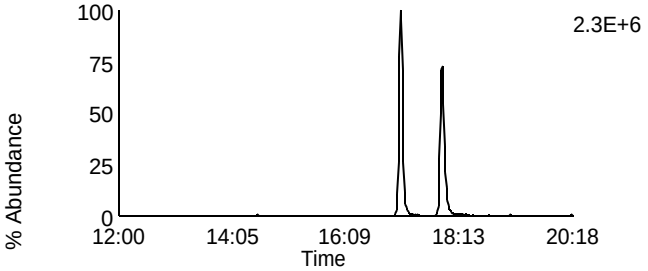
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C10 - 331.9367
SAMP 10265141011 - SMT WI



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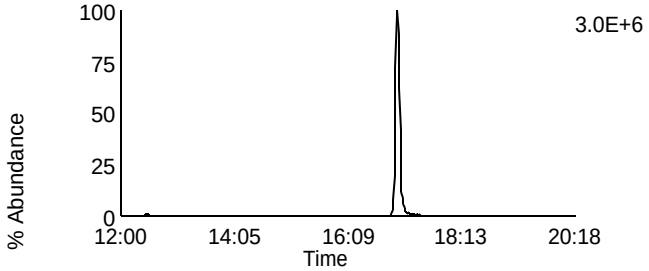
SAMP 10265141011 - SMT WI



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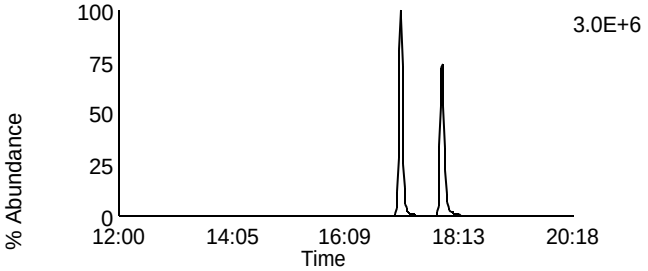
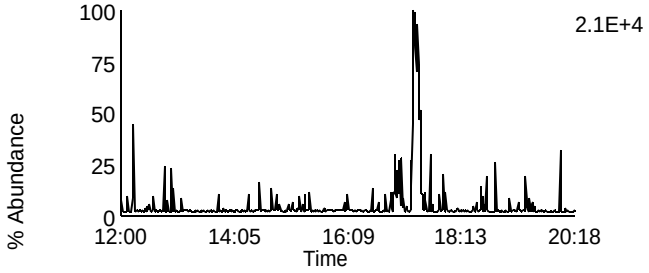
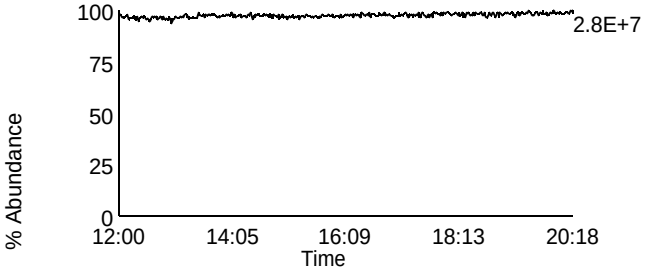
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C14 - 375.8364
SAMP 10265141011 - SMT WI



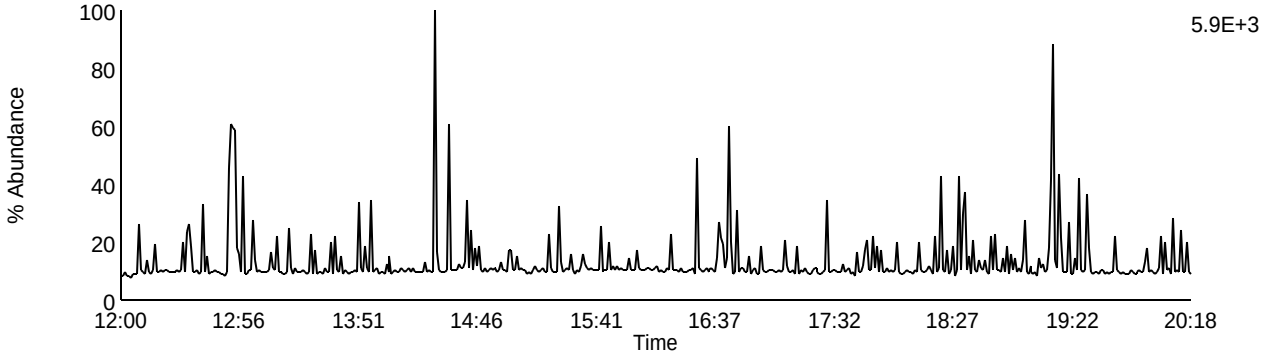
Data File: F140512A_10 G1 C5 - 318.9792
SAMP 10265141011 - SMT WI



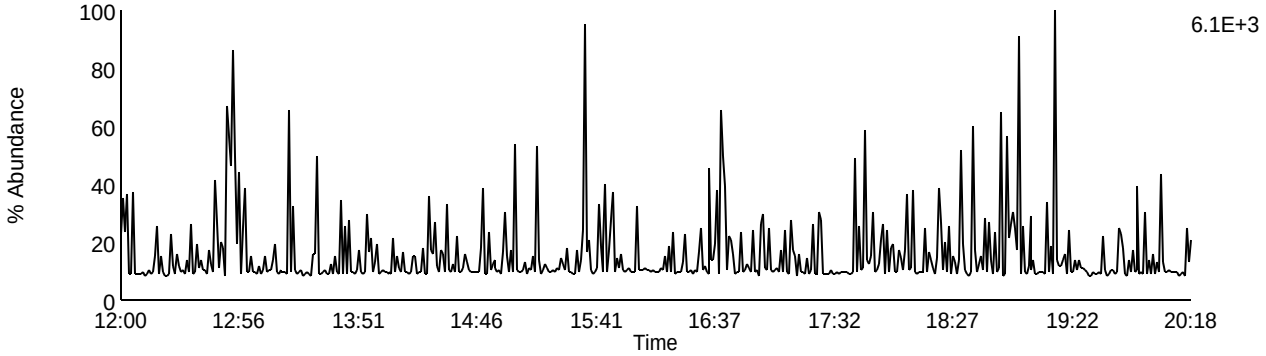
Homologue Group: Penta & Cleanup

Data File Name: F140512A_10	Lab Sample ID: 10265141011
Date Acquired: 5/12/2014	Client Sample ID: MAK119O
Sample Description: SAMP 10265141011 - SMT WI	Instrument: 10MSHR05 (F)

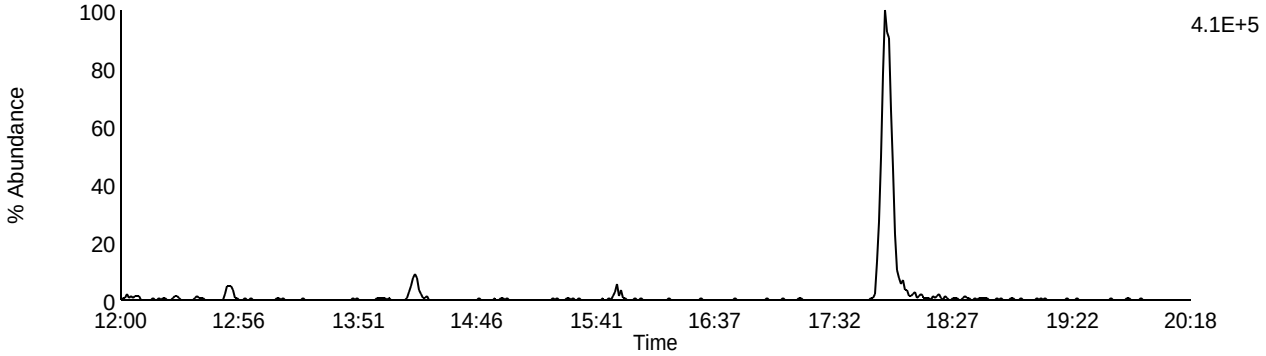
Data File: F140512A_10 G1 C12 - 339.8597
SAMP 10265141011 - SMT WI



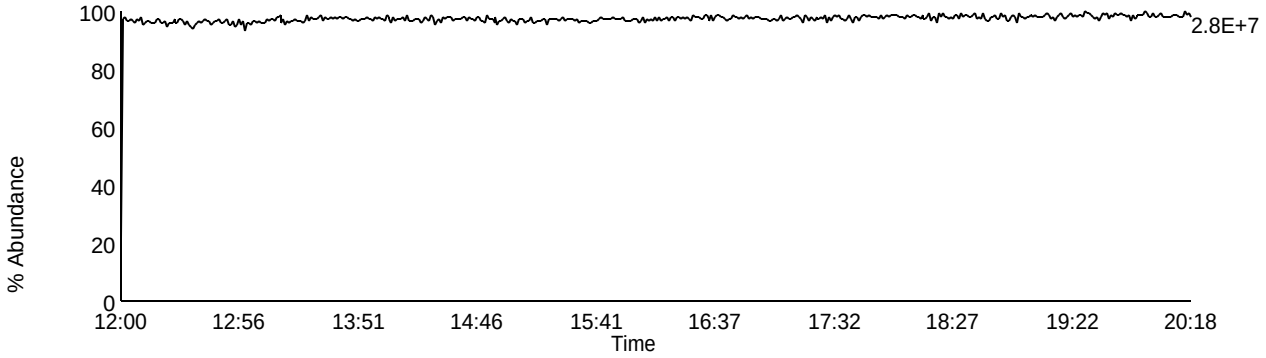
Data File: F140512A_10 G1 C13 - 341.8567
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C9 - 327.8847
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G1 C5 - 318.9792
SAMP 10265141011 - SMT WI

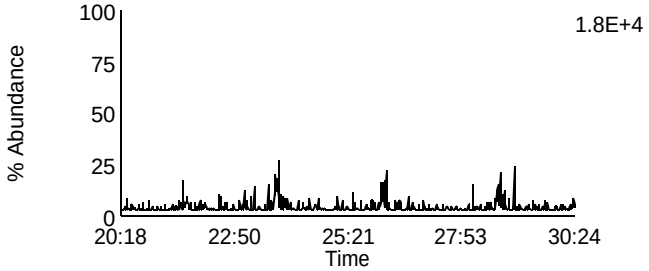


Homologue Group: Pentas

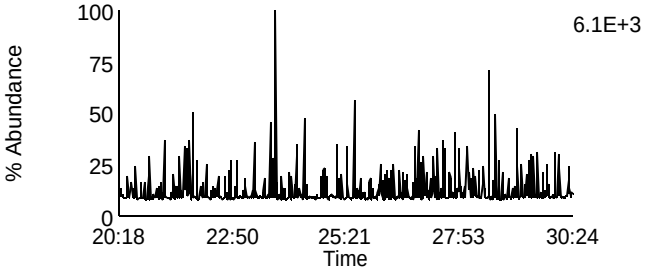
Data File Name: F140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141011 - SMT WI

Lab Sample ID: 10265141011
Client Sample ID: MAK119O
Instrument: 10MSHR05 (F)

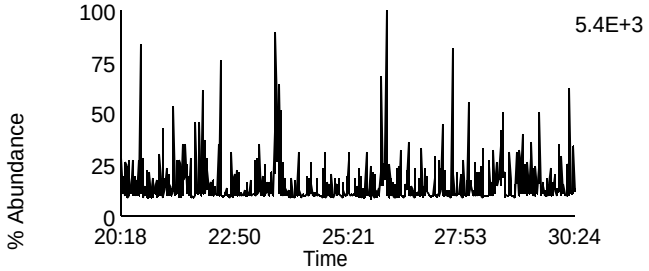
Data File: F140512A_10 G2 C1 - 339.8597
SAMP 10265141011 - SMT WI



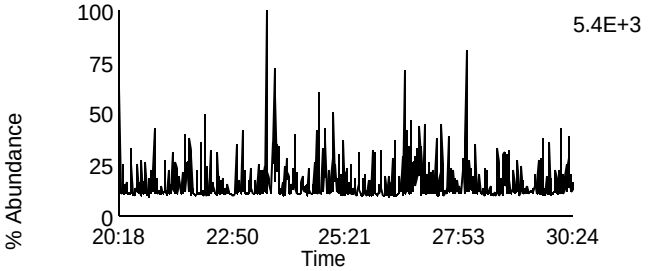
Data File: F140512A_10 G2 C4 - 353.8576
SAMP 10265141011 - SMT WI



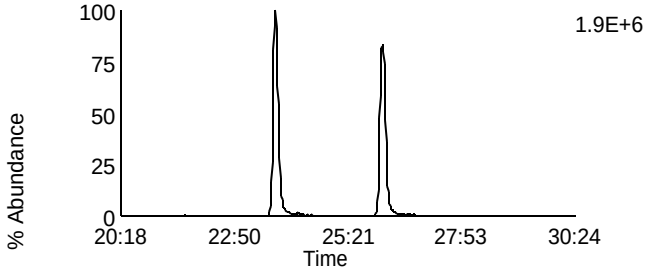
Data File: F140512A_10 G2 C2 - 341.8567
SAMP 10265141011 - SMT WI



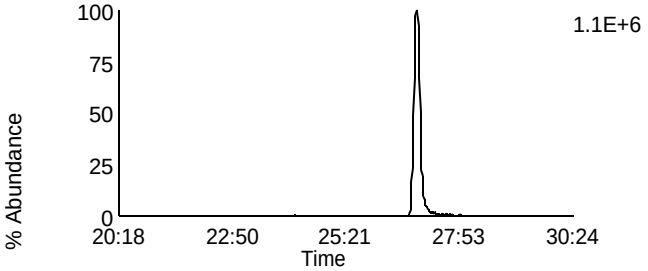
Data File: F140512A_10 G2 C8 - 355.8546
SAMP 10265141011 - SMT WI



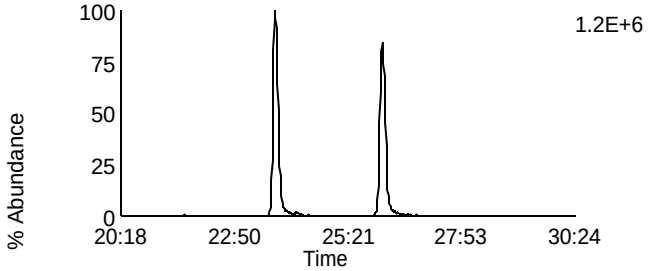
Data File: F140512A_10 G2 C3 - 351.8999
SAMP 10265141011 - SMT WI



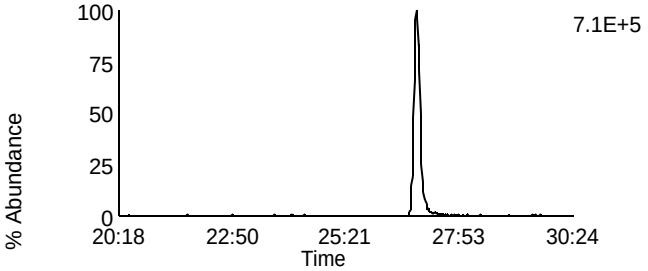
Data File: F140512A_10 G2 C10 - 367.8948
SAMP 10265141011 - SMT WI



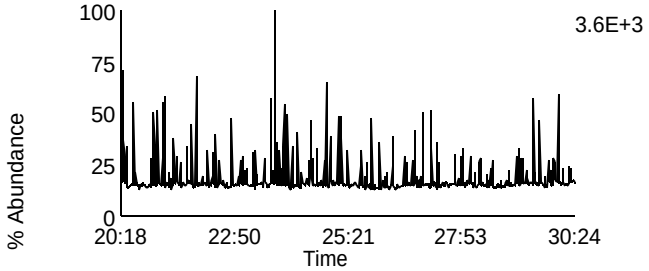
Data File: F140512A_10 G2 C5 - 353.8969
SAMP 10265141011 - SMT WI



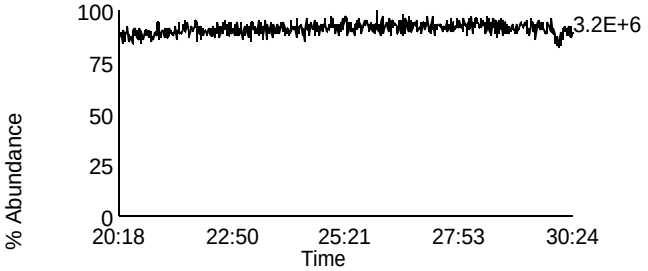
Data File: F140512A_10 G2 C11 - 369.8918
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G2 C12 - 409.7974
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G2 C6 - 354.9792
SAMP 10265141011 - SMT WI

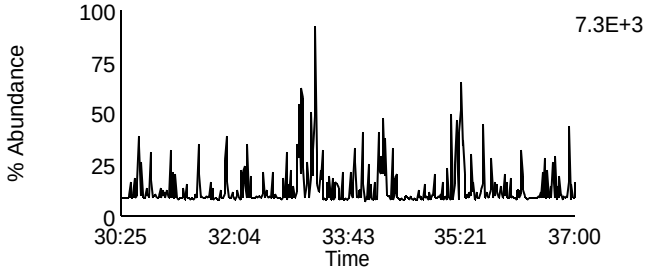


Homologue Group: Hexas

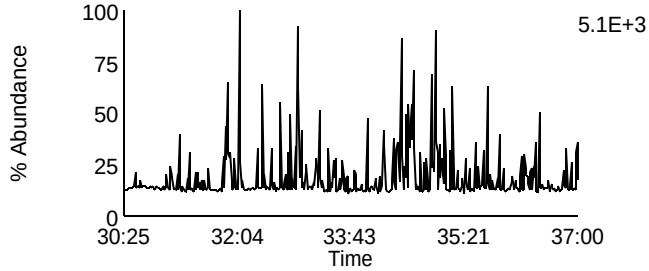
Data File Name: F140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141011 - SMT WI

Lab Sample ID: 10265141011
Client Sample ID: MAK119O
Instrument: 10MSHR05 (F)

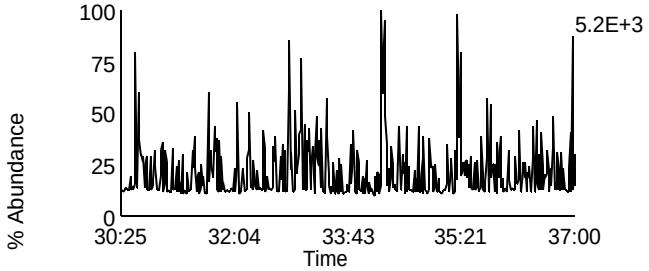
Data File: F140512A_10 G3 C1 - 373.8207
SAMP 10265141011 - SMT WI



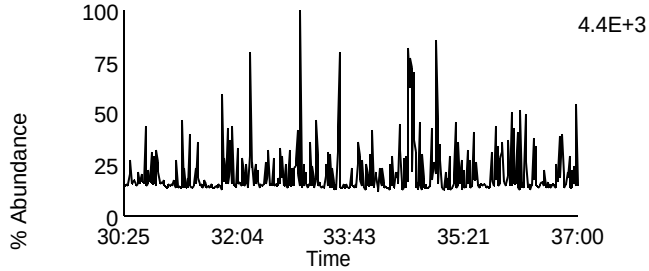
Data File: F140512A_10 G3 C7 - 389.8156
SAMP 10265141011 - SMT WI



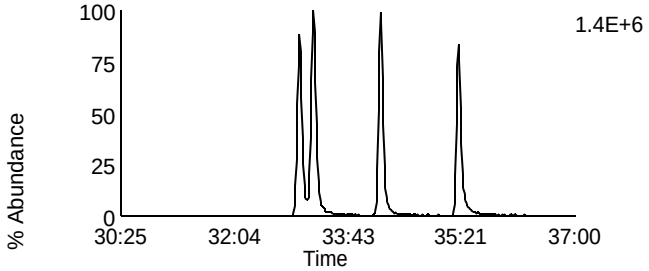
Data File: F140512A_10 G3 C2 - 375.8178
SAMP 10265141011 - SMT WI



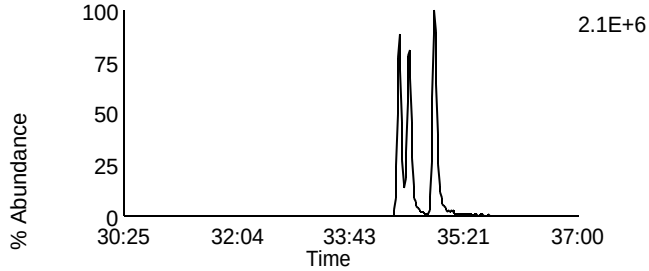
Data File: F140512A_10 G3 C8 - 391.8127
SAMP 10265141011 - SMT WI



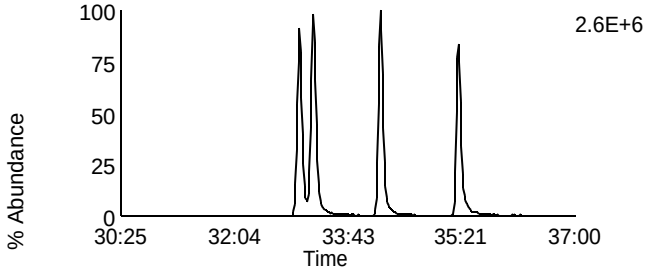
Data File: F140512A_10 G3 C5 - 383.8639
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G3 C9 - 401.8559
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G3 C6 - 385.861
SAMP 10265141011 - SMT WI



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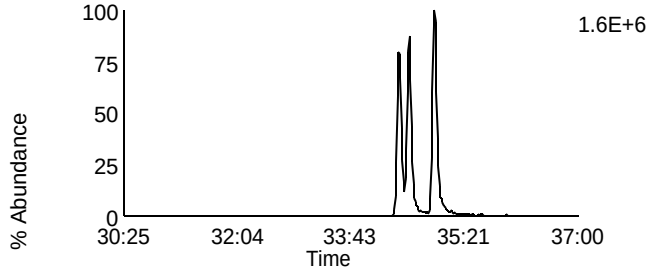
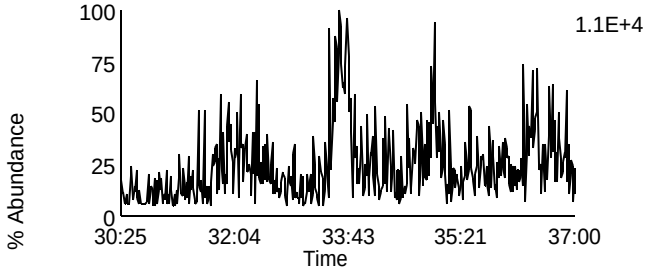
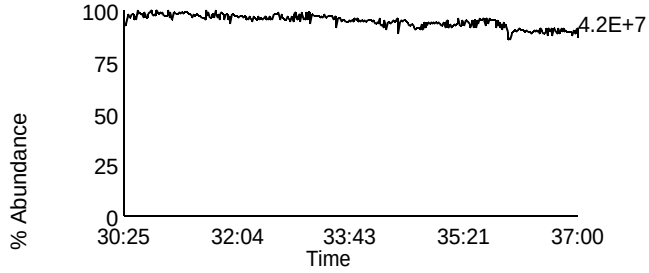
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G3 C11 - 445.7555
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G3 C3 - 380.976
SAMP 10265141011 - SMT WI

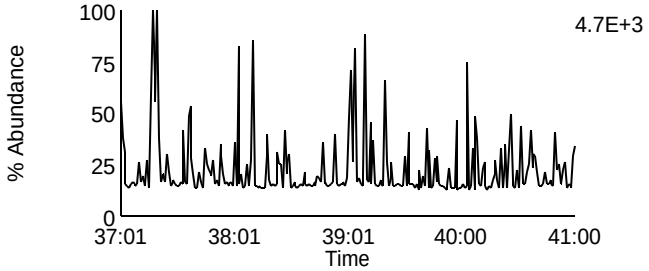


Homologue Group: Heptas

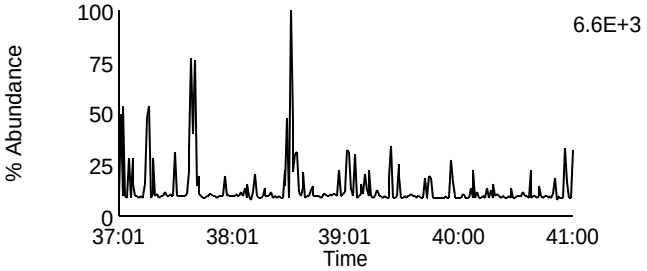
Data File Name: F140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141011 - SMT WI

Lab Sample ID: 10265141011
Client Sample ID: MAK119O
Instrument: 10MSHR05 (F)

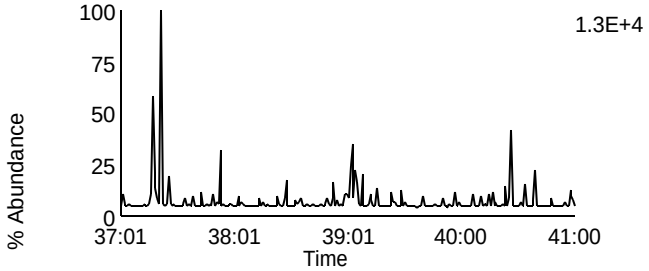
Data File: F140512A_10 G4 C3 - 407.7818
SAMP 10265141011 - SMT WI



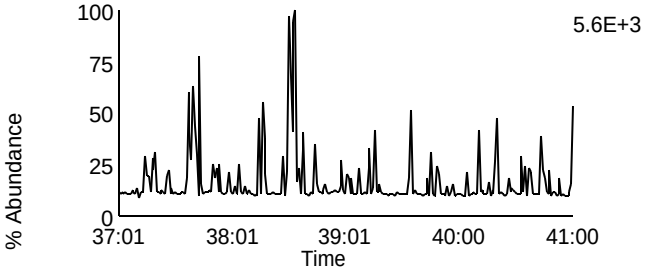
Data File: F140512A_10 G4 C8 - 423.7767
SAMP 10265141011 - SMT WI



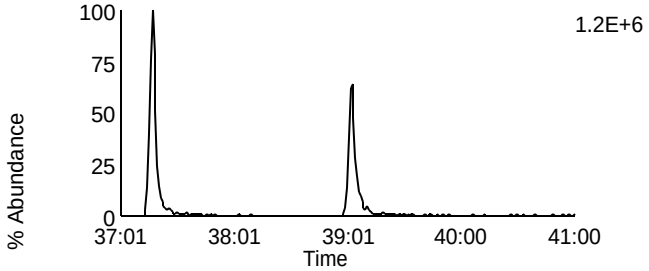
Data File: F140512A_10 G4 C4 - 409.7788
SAMP 10265141011 - SMT WI



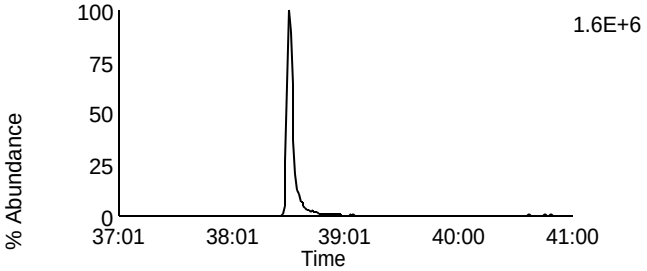
Data File: F140512A_10 G4 C9 - 425.7737
SAMP 10265141011 - SMT WI



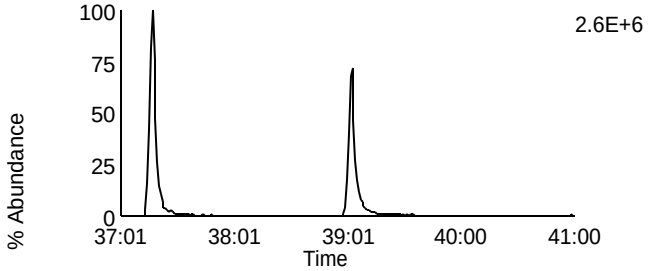
Data File: F140512A_10 G4 C6 - 417.825
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G4 C11 - 435.8169
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G4 C7 - 419.822
SAMP 10265141011 - SMT WI



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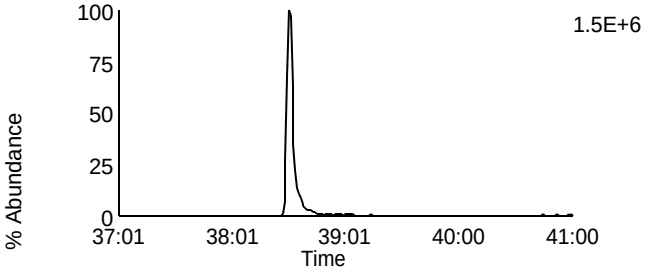
SAMP 10265141011 - SMT WI



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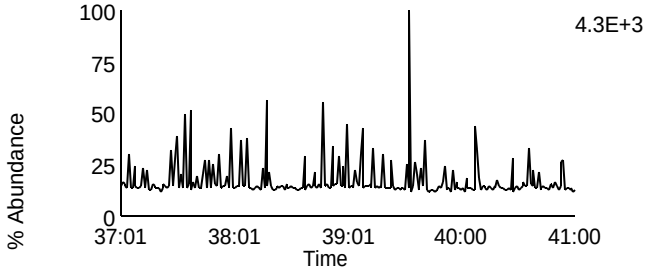
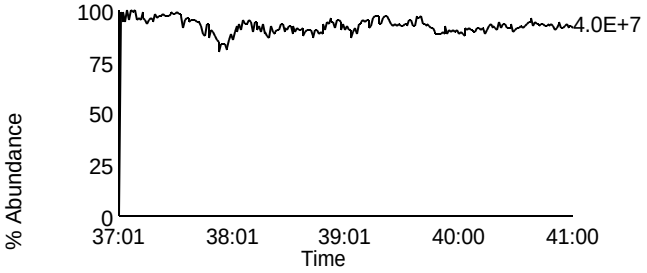
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G4 C1 - 380.976
SAMP 10265141011 - SMT WI

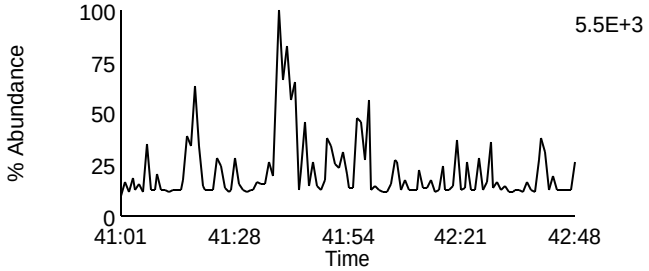


Homologue Group: Octas

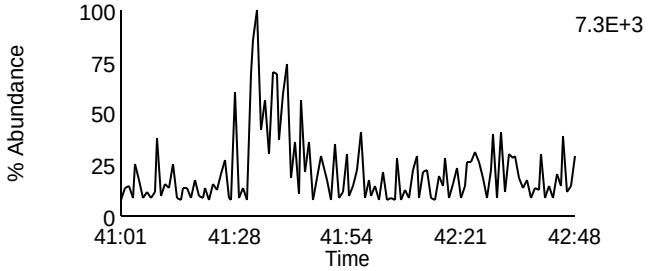
Data File Name: F140512A_10
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141011 - SMT WI

Lab Sample ID: 10265141011
Client Sample ID: MAK119O
Instrument: 10MSHR05 (F)

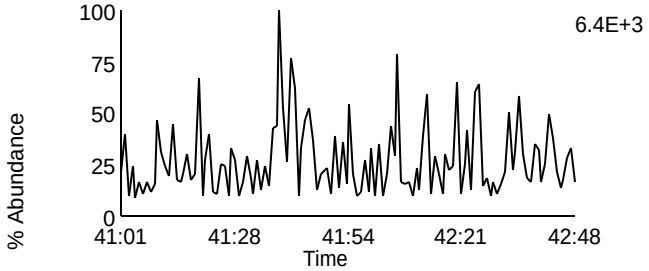
Data File: F140512A_10 G5 C4 - 441.7428
SAMP 10265141011 - SMT WI



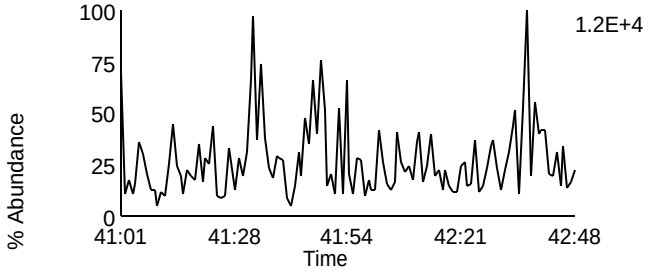
Data File: F140512A_10 G5 C8 - 457.7377
SAMP 10265141011 - SMT WI



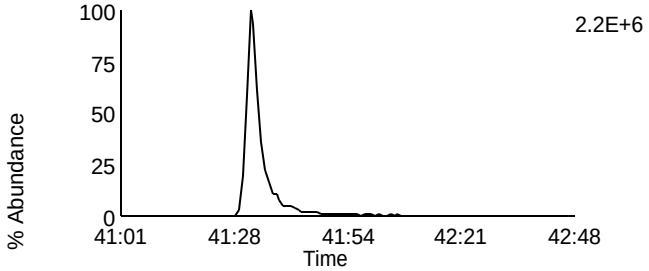
Data File: F140512A_10 G5 C5 - 443.7398
SAMP 10265141011 - SMT WI



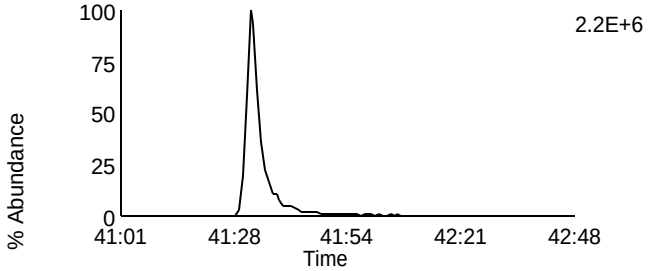
Data File: F140512A_10 G5 C9 - 459.7347
SAMP 10265141011 - SMT WI



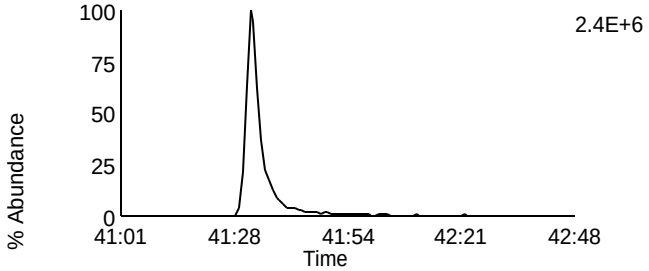
Data File: F140512A_10 G5 C11 - 469.7779
SAMP 10265141011 - SMT WI



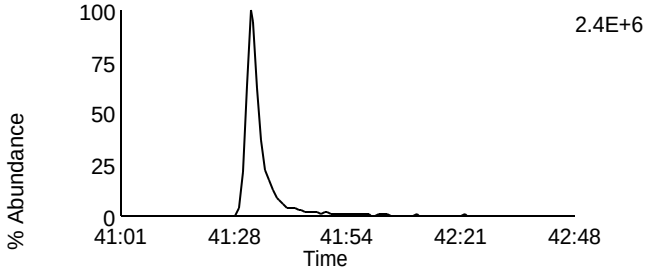
Data File: F140512A_10 G5 C11 - 469.7779
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G5 C12 - 471.7749
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G5 C12 - 471.7749
SAMP 10265141011 - SMT WI



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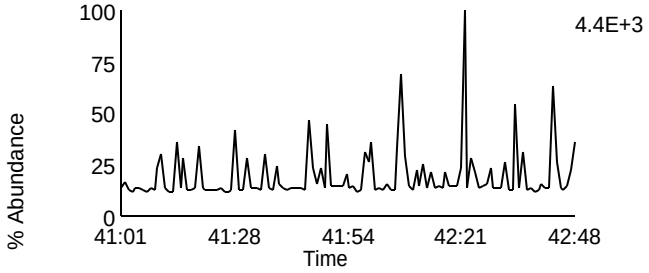
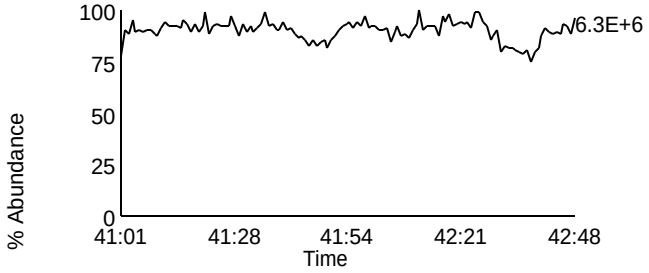
SAMP 10265141011 - SMT WI



Data File: F140512A_10 G5 C2 - 430.9728
SAMP 10265141011 - SMT WI

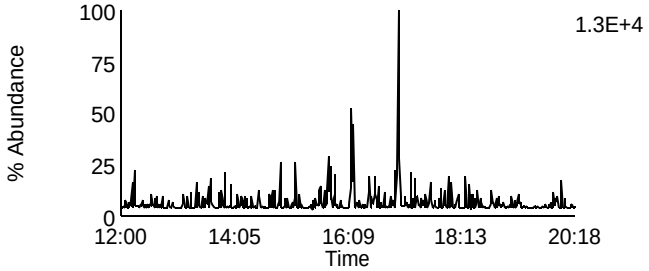


Homologue Group: Tetras

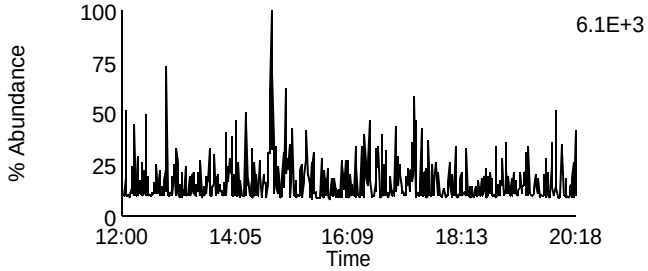
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

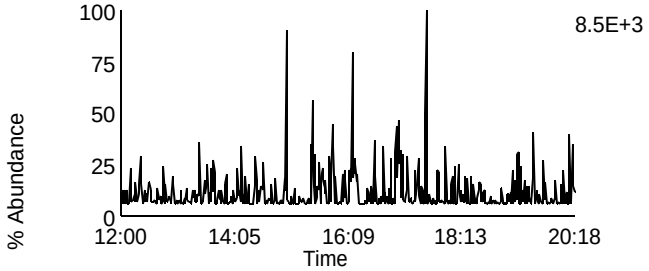
Data File: F140512A_11 G1 C1 - 303.9016
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C7 - 319.8965
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C2 - 305.8987
SAMP 10265141012 - SMT WI



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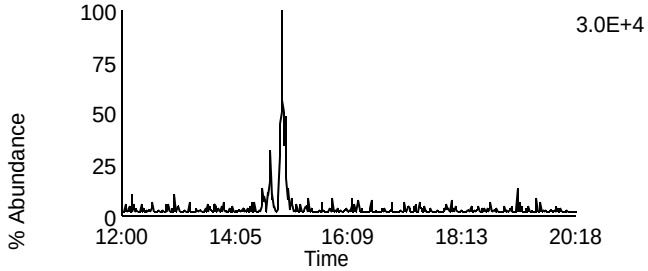
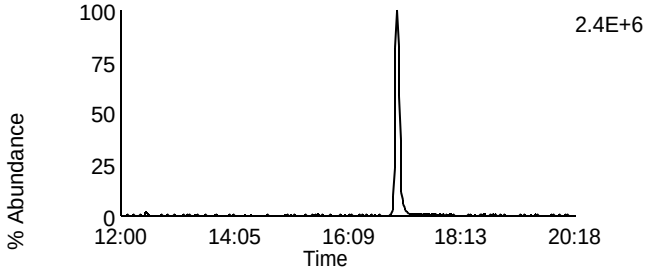
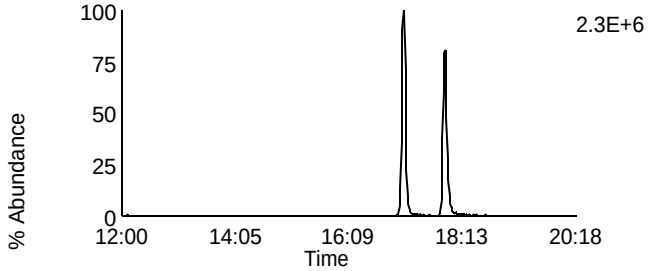
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C3 - 315.9418
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C10 - 331.9367
SAMP 10265141012 - SMT WI



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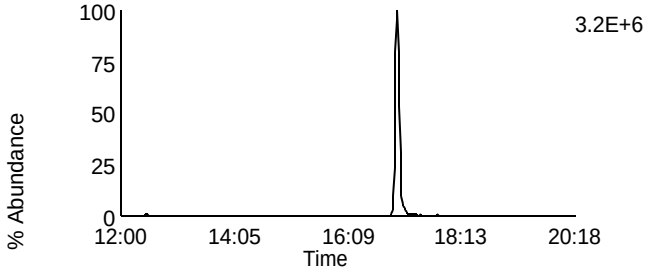
SAMP 10265141012 - SMT WI



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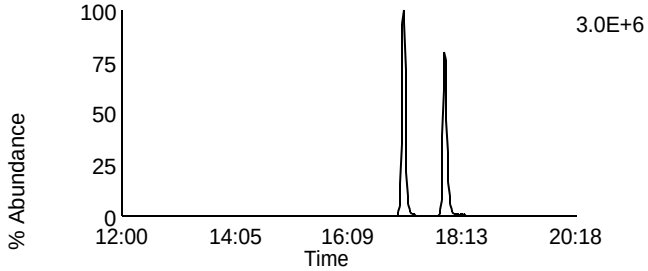
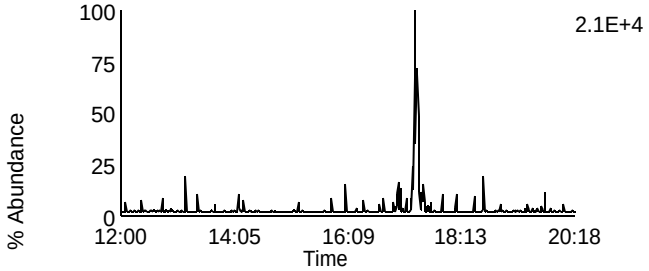
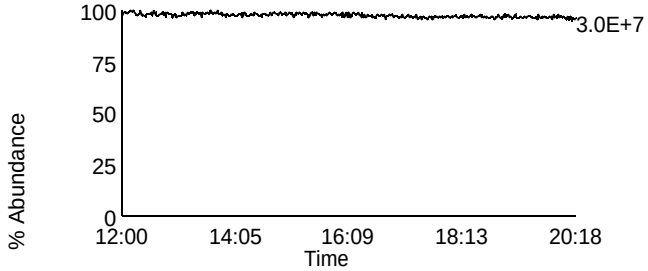
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C14 - 375.8364
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C5 - 318.9792
SAMP 10265141012 - SMT WI

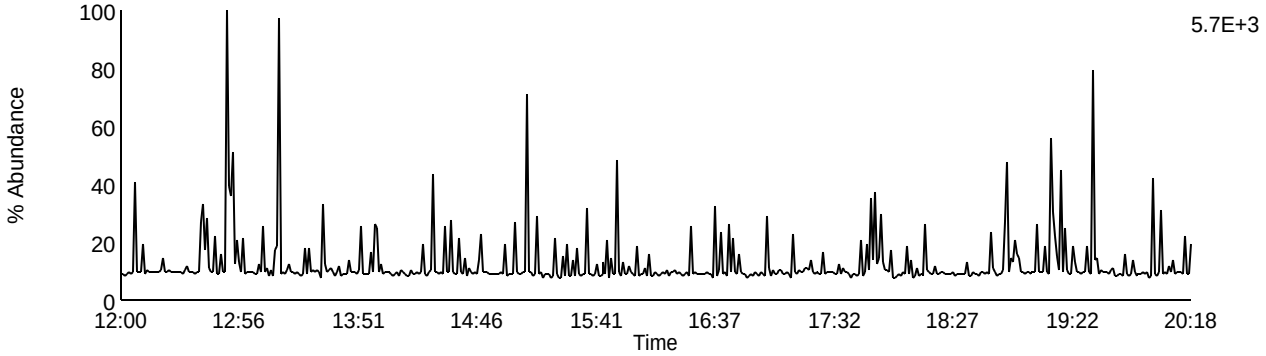


Homologue Group: Penta & Cleanup

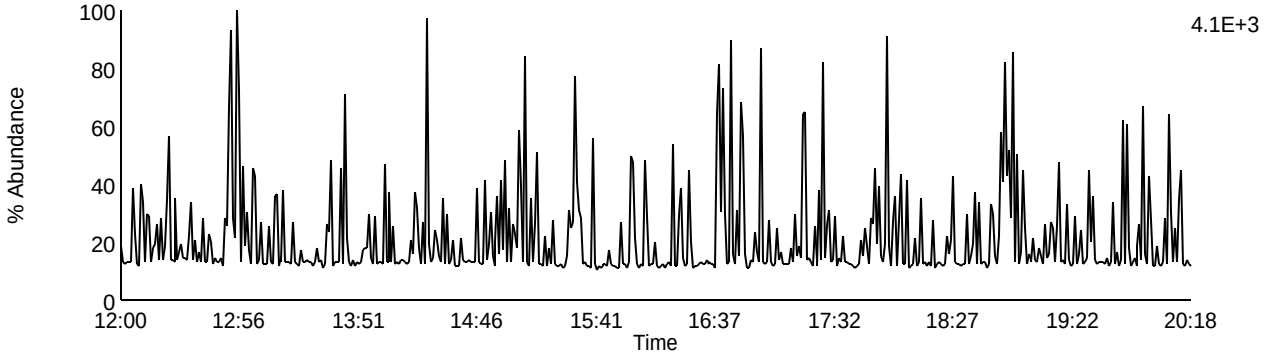
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

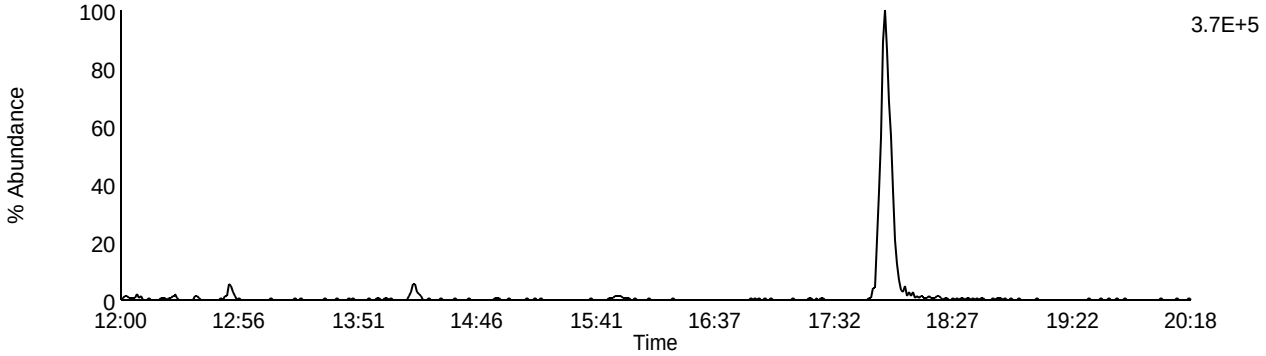
Data File: F140512A_11 G1 C12 - 339.8597
SAMP 10265141012 - SMT WI



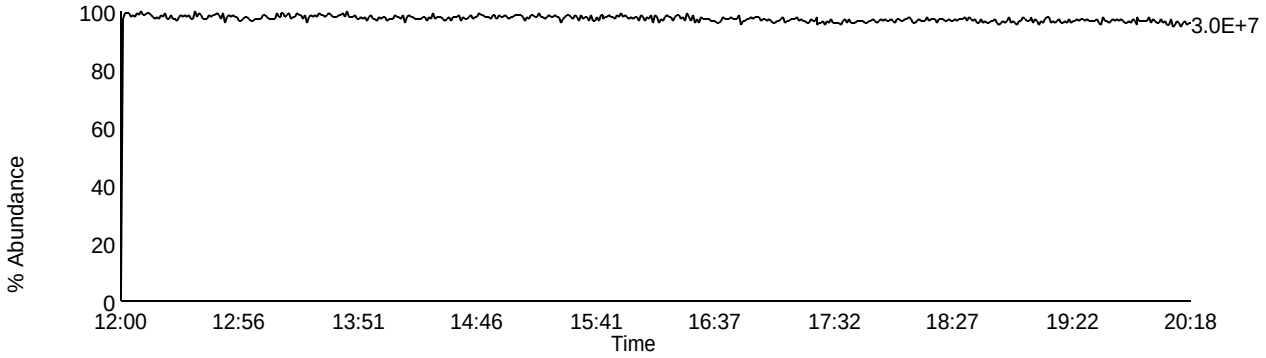
Data File: F140512A_11 G1 C13 - 341.8567
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C9 - 327.8847
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G1 C5 - 318.9792
SAMP 10265141012 - SMT WI

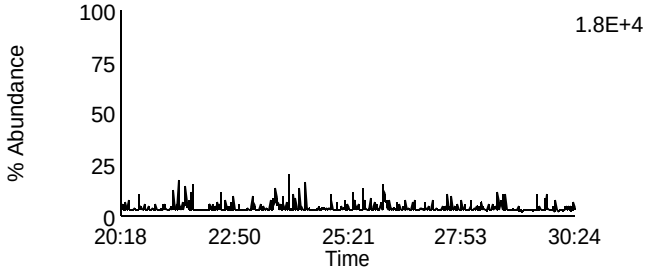


Homologue Group: Pentas

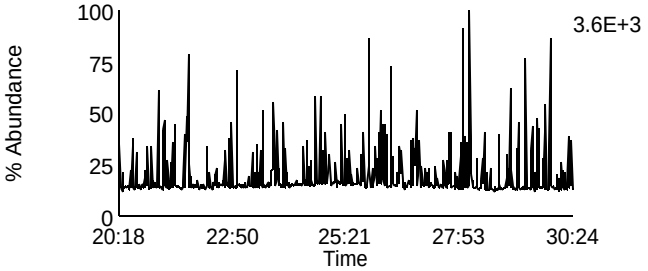
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

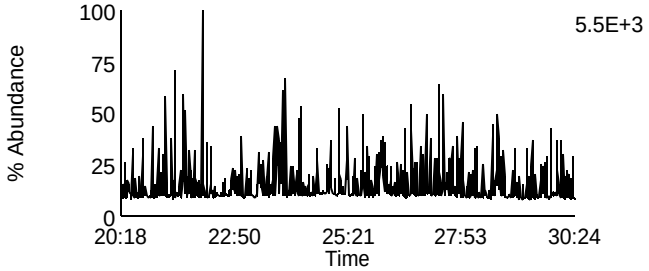
Data File: F140512A_11 G2 C1 - 339.8597
SAMP 10265141012 - SMT WI



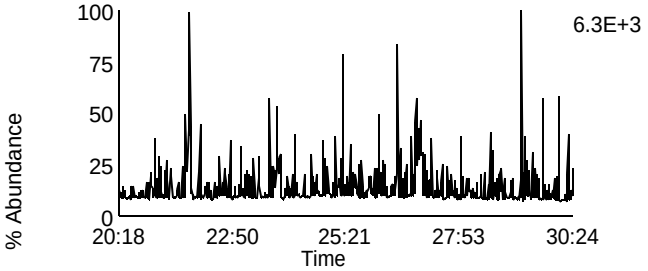
Data File: F140512A_11 G2 C4 - 353.8576
SAMP 10265141012 - SMT WI



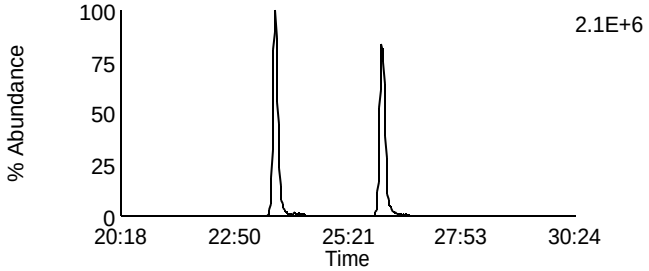
Data File: F140512A_11 G2 C2 - 341.8567
SAMP 10265141012 - SMT WI



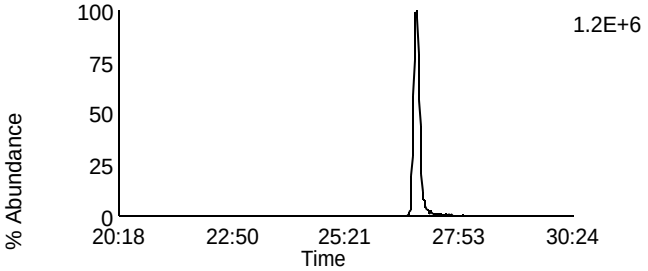
Data File: F140512A_11 G2 C8 - 355.8546
SAMP 10265141012 - SMT WI



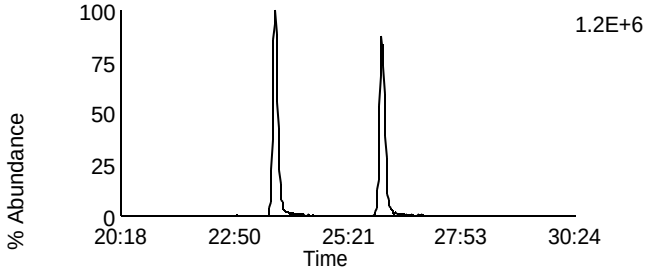
Data File: F140512A_11 G2 C3 - 351.8999
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G2 C10 - 367.8948
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G2 C5 - 353.8969
SAMP 10265141012 - SMT WI



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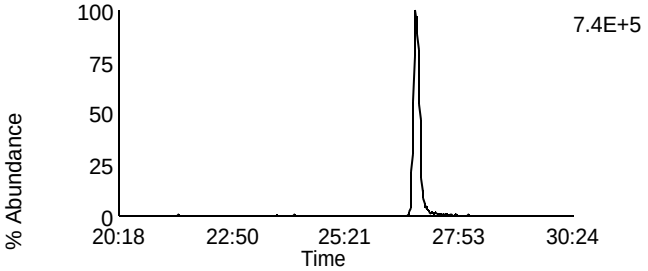
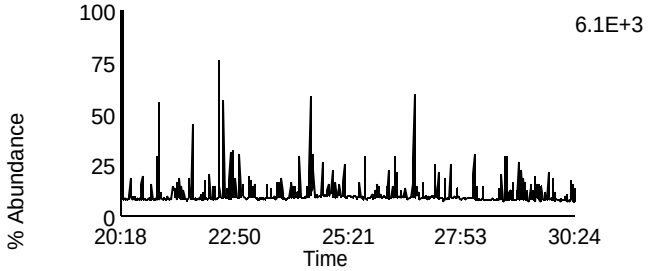
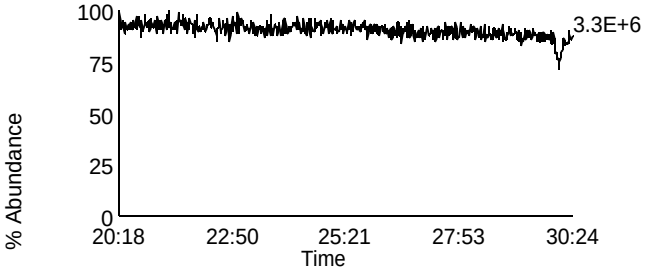
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G2 C12 - 409.7974
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G2 C6 - 354.9792
SAMP 10265141012 - SMT WI

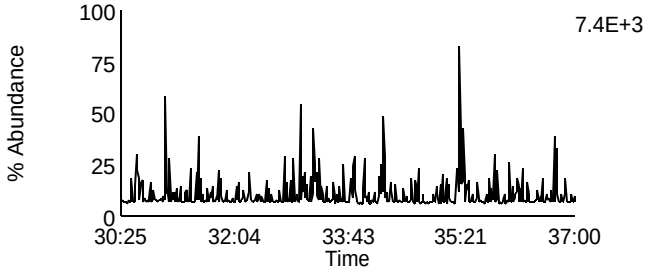


Homologue Group: Hexas

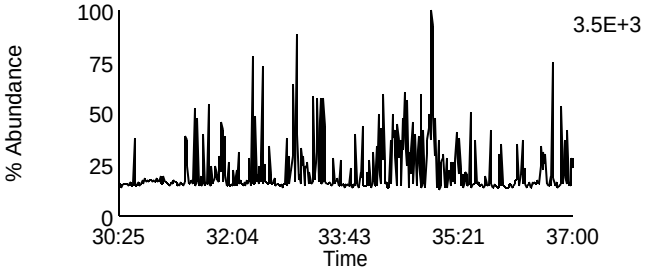
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

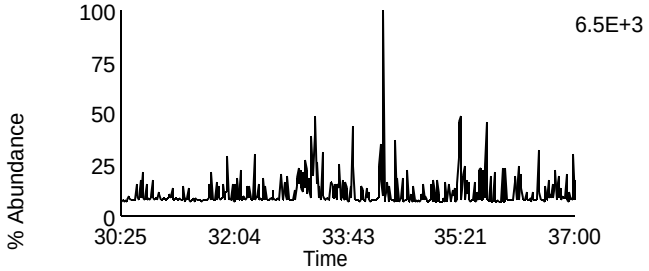
Data File: F140512A_11 G3 C1 - 373.8207
SAMP 10265141012 - SMT WI



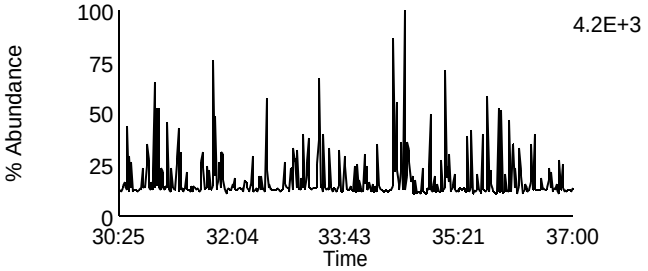
Data File: F140512A_11 G3 C7 - 389.8156
SAMP 10265141012 - SMT WI



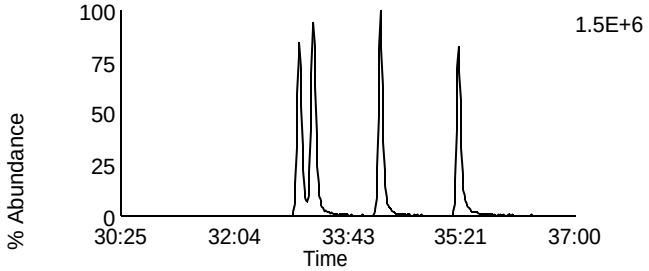
Data File: F140512A_11 G3 C2 - 375.8178
SAMP 10265141012 - SMT WI



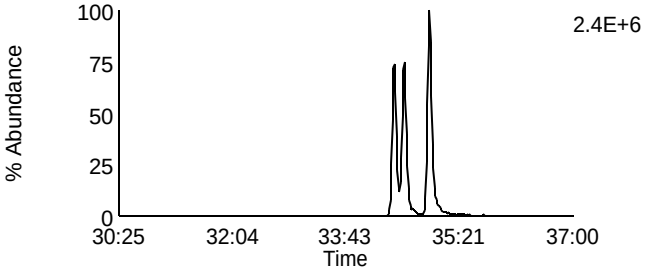
Data File: F140512A_11 G3 C8 - 391.8127
SAMP 10265141012 - SMT WI



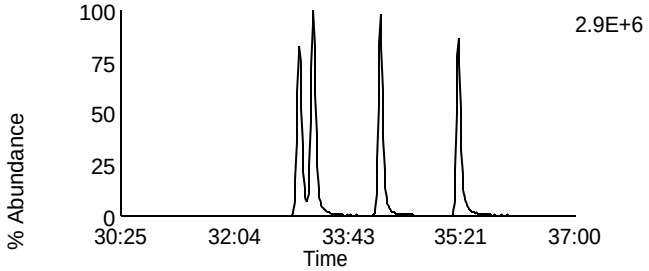
Data File: F140512A_11 G3 C5 - 383.8639
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G3 C9 - 401.8559
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G3 C6 - 385.861
SAMP 10265141012 - SMT WI



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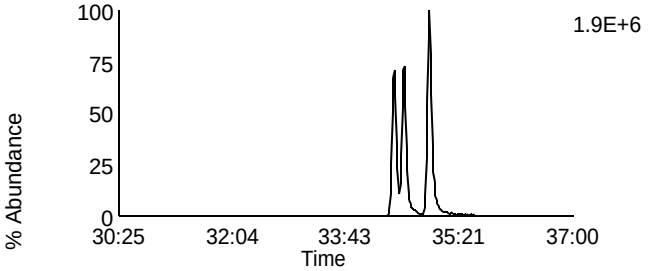
SAMP 10265141012 - SMT WI



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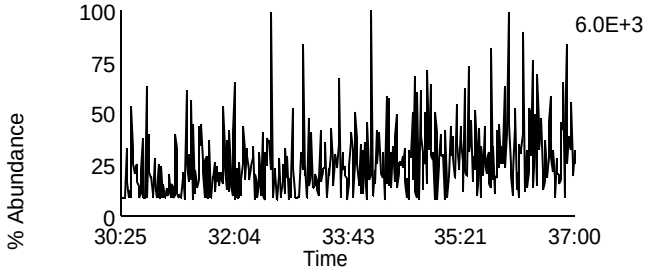
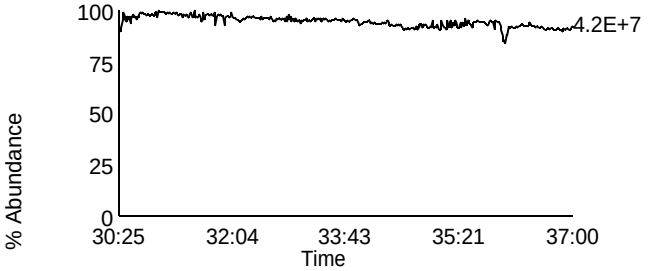
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G3 C3 - 380.976
SAMP 10265141012 - SMT WI

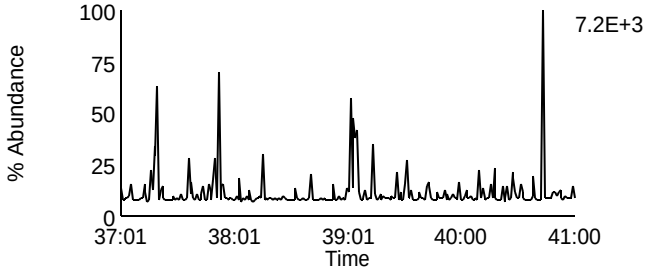


Homologue Group: Heptas

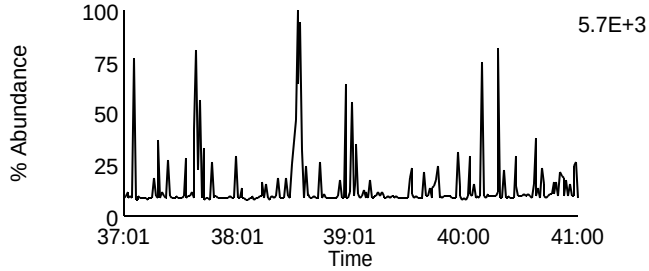
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

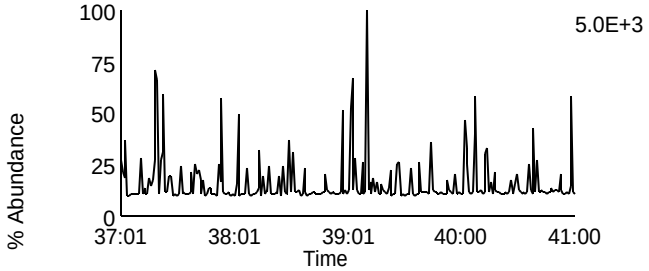
Data File: F140512A_11 G4 C3 - 407.7818
SAMP 10265141012 - SMT WI



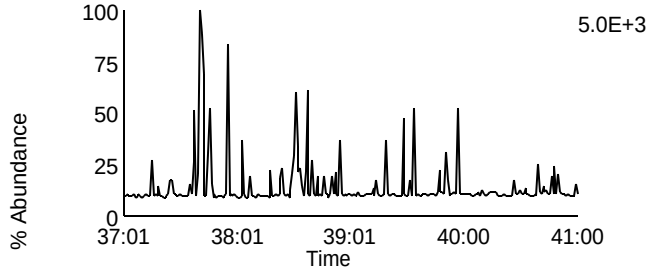
Data File: F140512A_11 G4 C8 - 423.7767
SAMP 10265141012 - SMT WI



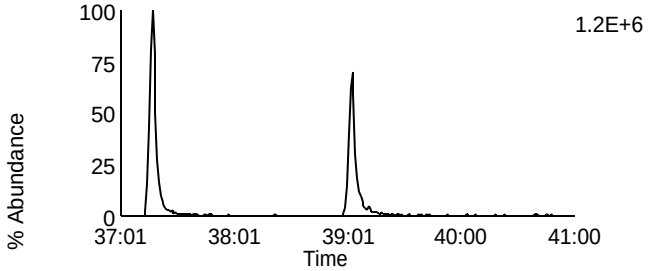
Data File: F140512A_11 G4 C4 - 409.7788
SAMP 10265141012 - SMT WI



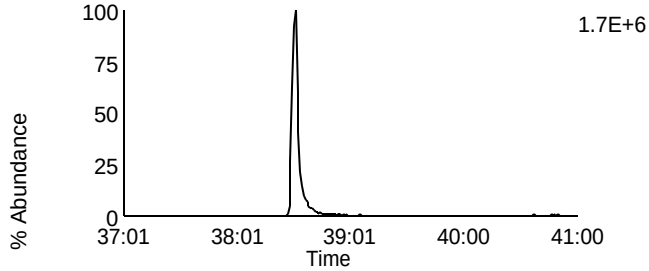
Data File: F140512A_11 G4 C9 - 425.7737
SAMP 10265141012 - SMT WI



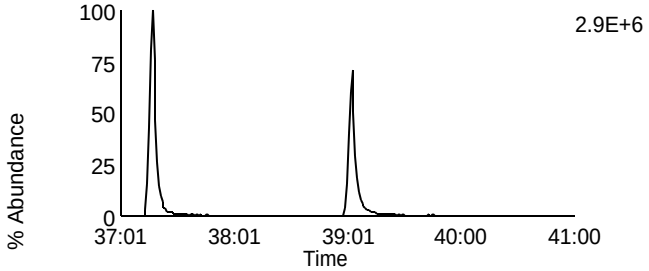
Data File: F140512A_11 G4 C6 - 417.825
SAMP 10265141012 - SMT WI



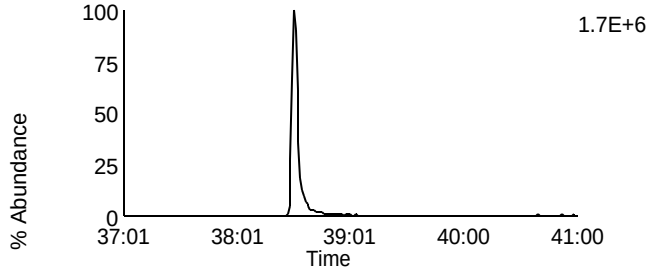
Data File: F140512A_11 G4 C11 - 435.8169
SAMP 10265141012 - SMT WI



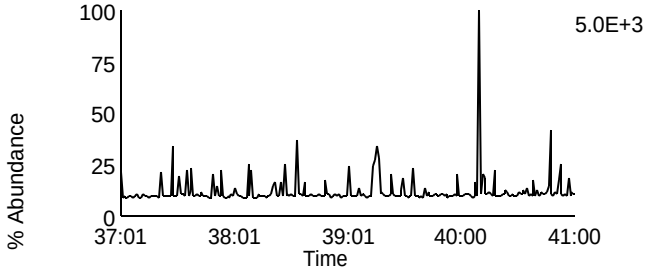
Data File: F140512A_11 G4 C7 - 419.822
SAMP 10265141012 - SMT WI



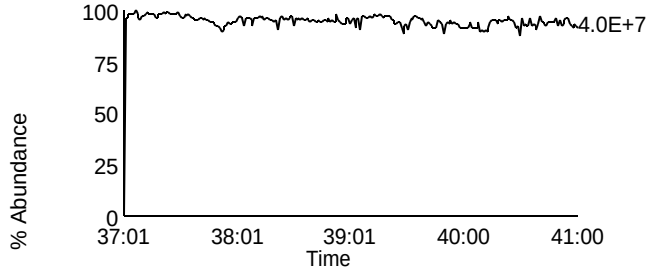
Data File: F140512A_11 G4 C12 - 437.814
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G4 C13 - 479.7165
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G4 C1 - 380.976
SAMP 10265141012 - SMT WI

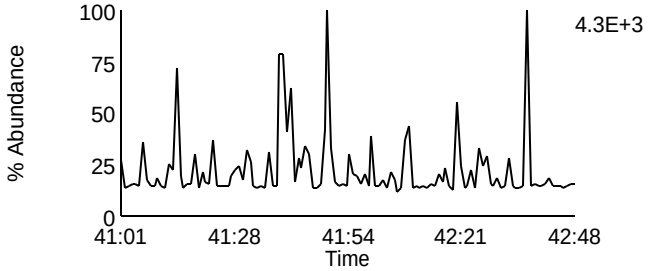


Homologue Group: Octas

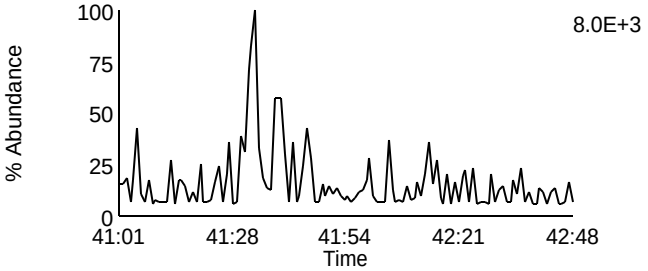
Data File Name: F140512A_11
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012 - SMT WI

Lab Sample ID: 10265141012
Client Sample ID: MAK120O
Instrument: 10MSHR05 (F)

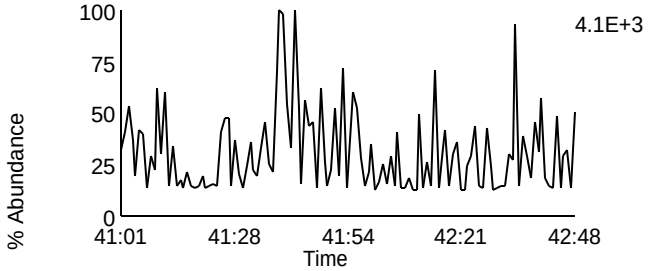
Data File: F140512A_11 G5 C4 - 441.7428
SAMP 10265141012 - SMT WI



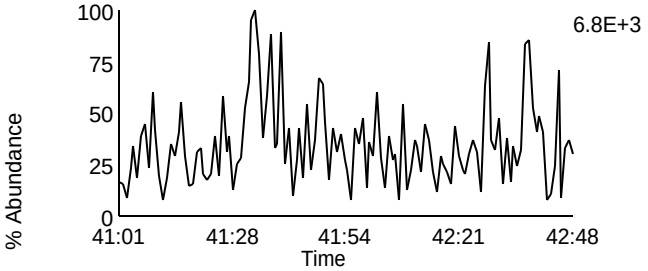
Data File: F140512A_11 G5 C8 - 457.7377
SAMP 10265141012 - SMT WI



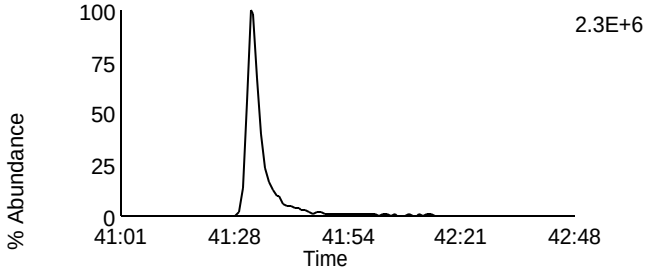
Data File: F140512A_11 G5 C5 - 443.7398
SAMP 10265141012 - SMT WI



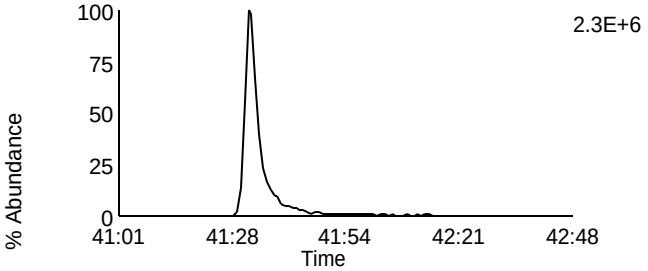
Data File: F140512A_11 G5 C9 - 459.7347
SAMP 10265141012 - SMT WI



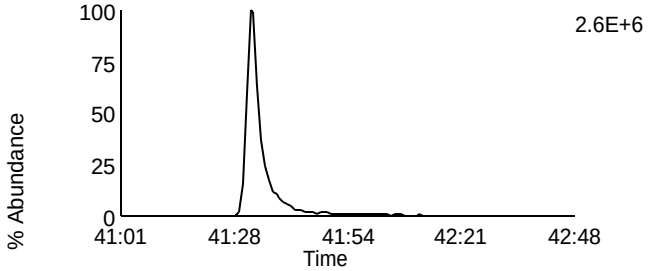
Data File: F140512A_11 G5 C11 - 469.7779
SAMP 10265141012 - SMT WI



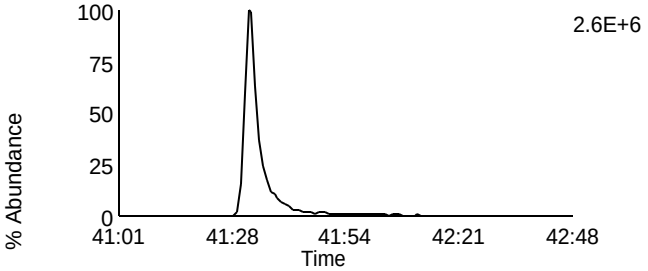
Data File: F140512A_11 G5 C11 - 469.7779
SAMP 10265141012 - SMT WI



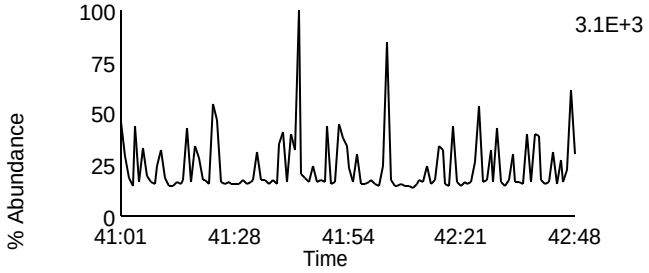
Data File: F140512A_11 G5 C12 - 471.7749
SAMP 10265141012 - SMT WI



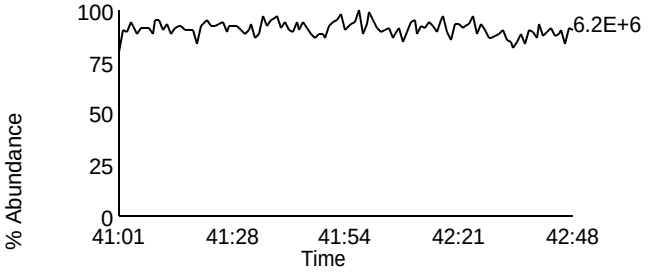
Data File: F140512A_11 G5 C12 - 471.7749
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G5 C13 - 513.6775
SAMP 10265141012 - SMT WI



Data File: F140512A_11 G5 C2 - 430.9728
SAMP 10265141012 - SMT WI

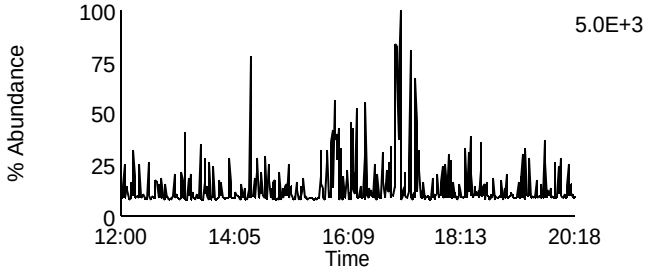


Homologue Group: Tetras

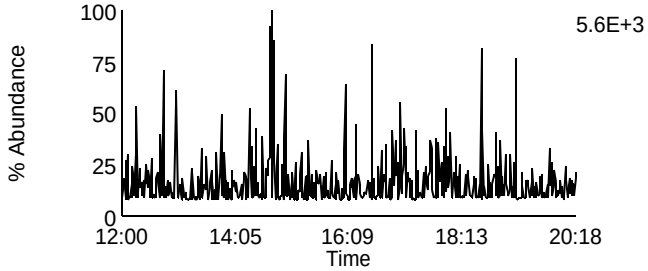
Data File Name: F140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141013 - SMT WI

Lab Sample ID: 10265141013
Client Sample ID: MAK121O
Instrument: 10MSHR05 (F)

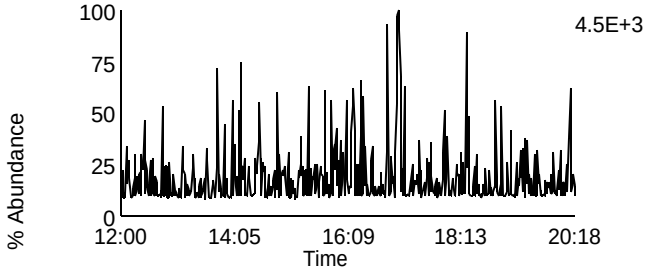
Data File: F140512A_12 G1 C1 - 303.9016
SAMP 10265141013 - SMT WI



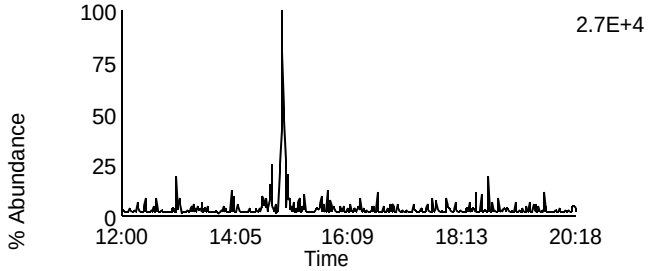
Data File: F140512A_12 G1 C7 - 319.8965
SAMP 10265141013 - SMT WI



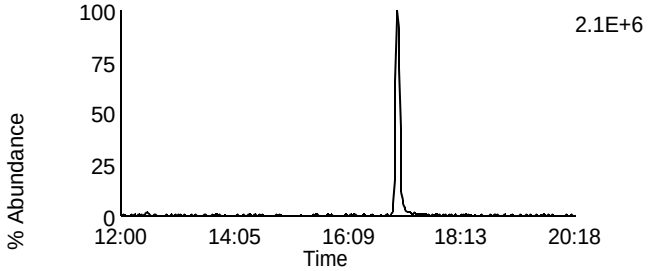
Data File: F140512A_12 G1 C2 - 305.8987
SAMP 10265141013 - SMT WI



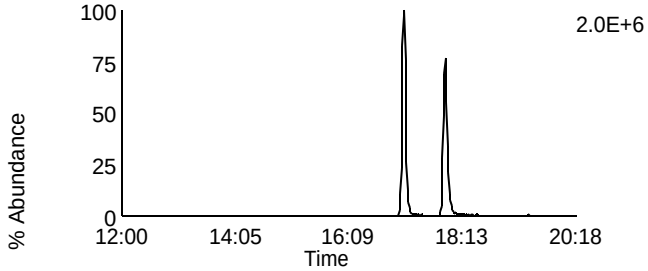
Data File: F140512A_12 G1 C8 - 321.8936
SAMP 10265141013 - SMT WI



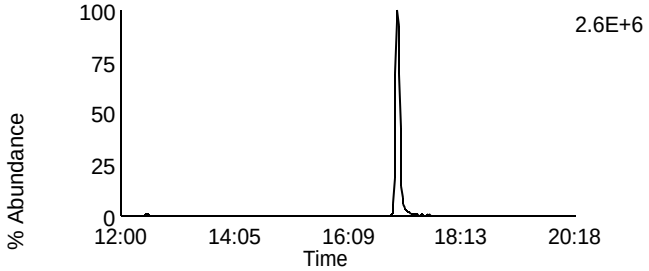
Data File: F140512A_12 G1 C3 - 315.9418
SAMP 10265141013 - SMT WI



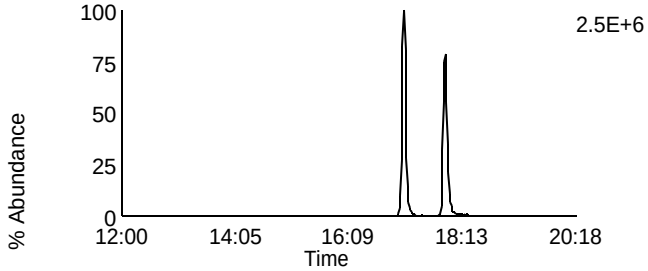
Data File: F140512A_12 G1 C10 - 331.9367
SAMP 10265141013 - SMT WI



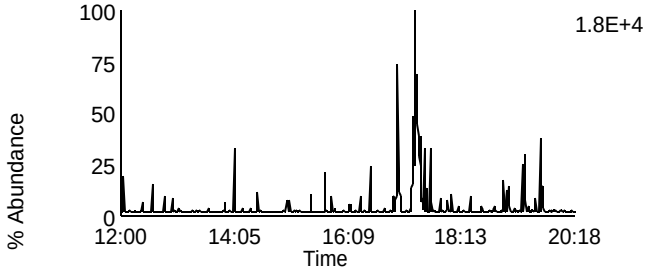
Data File: F140512A_12 G1 C4 - 317.9389
SAMP 10265141013 - SMT WI



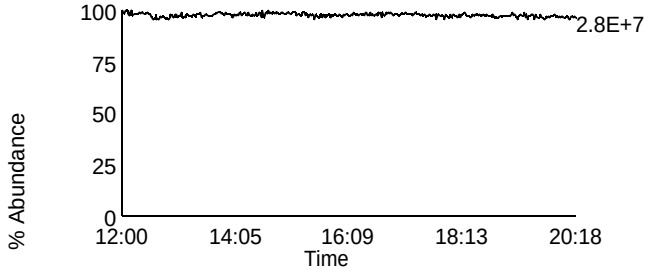
Data File: F140512A_12 G1 C11 - 333.9338
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G1 C14 - 375.8364
SAMP 10265141013 - SMT WI



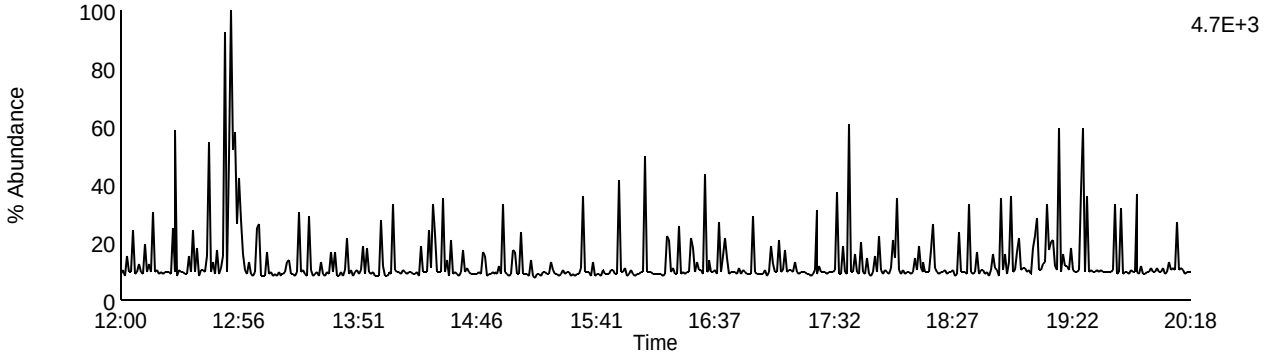
Data File: F140512A_12 G1 C5 - 318.9792
SAMP 10265141013 - SMT WI



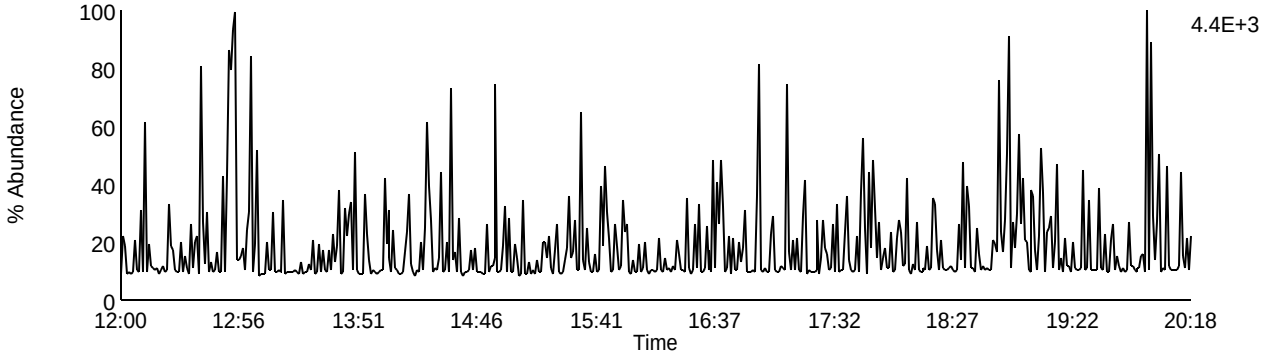
Homologue Group: Penta & Cleanup

Data File Name: F140512A_12	Lab Sample ID: 10265141013
Date Acquired: 5/12/2014	Client Sample ID: MAK121O
Sample Description: SAMP 10265141013 - SMT WI	Instrument: 10MSHR05 (F)

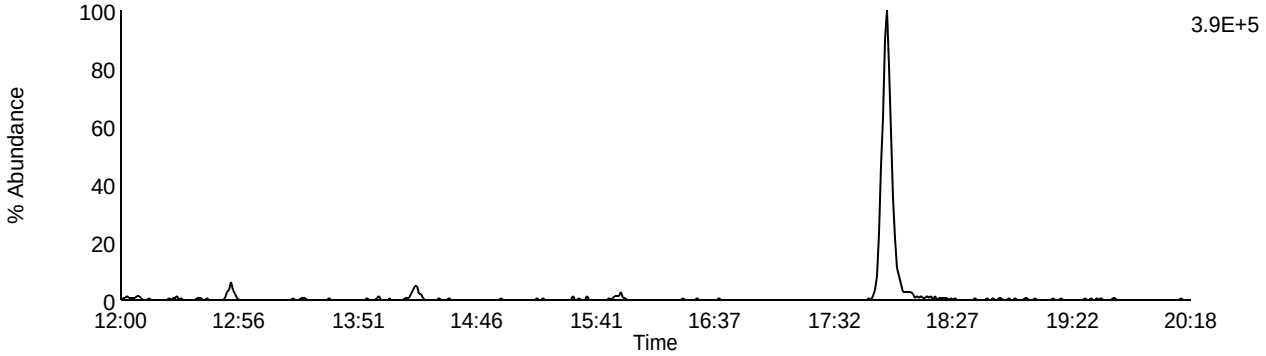
Data File: F140512A_12 G1 C12 - 339.8597
SAMP 10265141013 - SMT WI



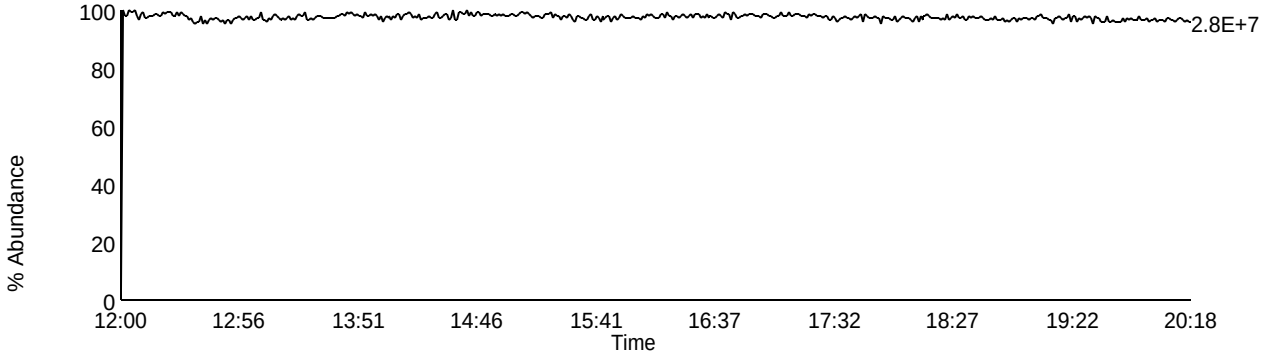
Data File: F140512A_12 G1 C13 - 341.8567
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G1 C9 - 327.8847
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G1 C5 - 318.9792
SAMP 10265141013 - SMT WI

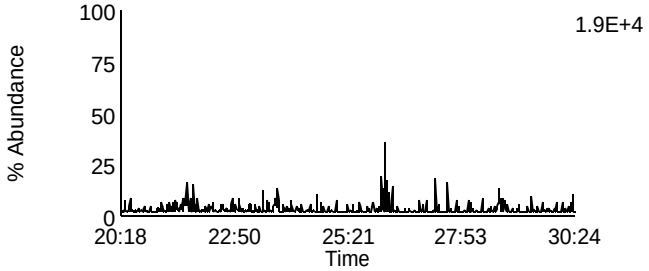


Homologue Group: Pentas

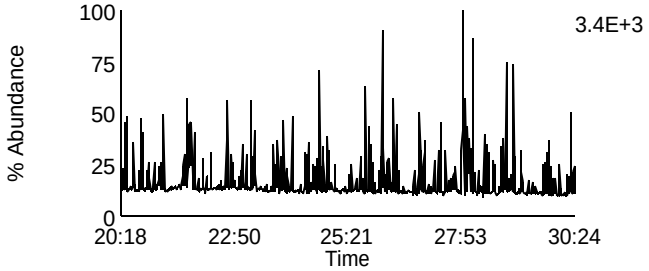
Data File Name: F140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141013 - SMT WI

Lab Sample ID: 10265141013
Client Sample ID: MAK121O
Instrument: 10MSHR05 (F)

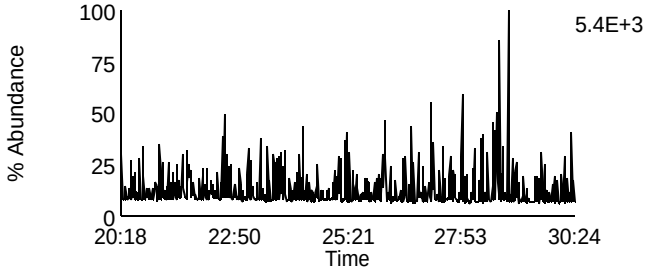
Data File: F140512A_12 G2 C1 - 339.8597
SAMP 10265141013 - SMT WI



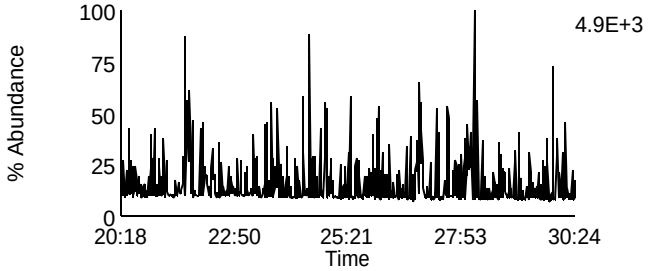
Data File: F140512A_12 G2 C4 - 353.8576
SAMP 10265141013 - SMT WI



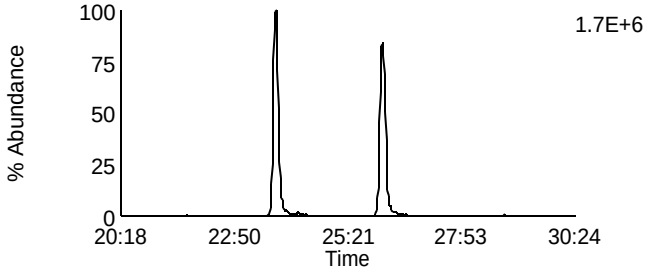
Data File: F140512A_12 G2 C2 - 341.8567
SAMP 10265141013 - SMT WI



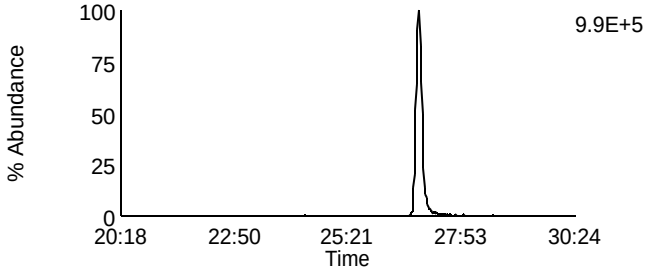
Data File: F140512A_12 G2 C8 - 355.8546
SAMP 10265141013 - SMT WI



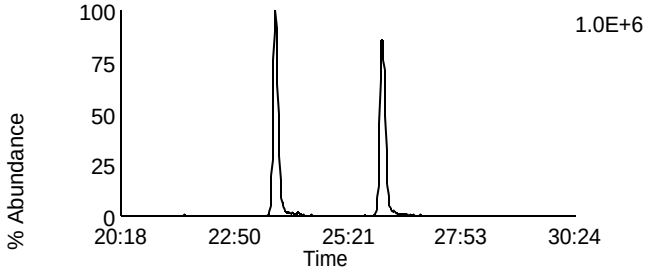
Data File: F140512A_12 G2 C3 - 351.8999
SAMP 10265141013 - SMT WI



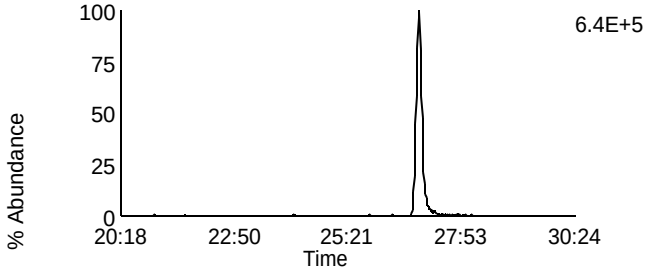
Data File: F140512A_12 G2 C10 - 367.8948
SAMP 10265141013 - SMT WI



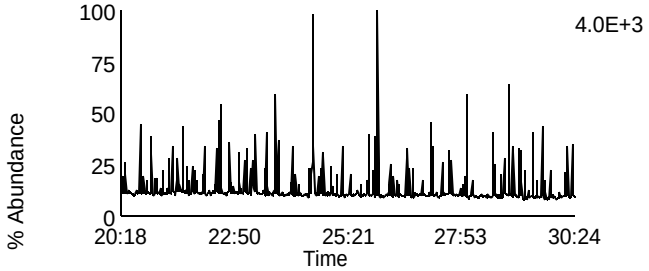
Data File: F140512A_12 G2 C5 - 353.8969
SAMP 10265141013 - SMT WI



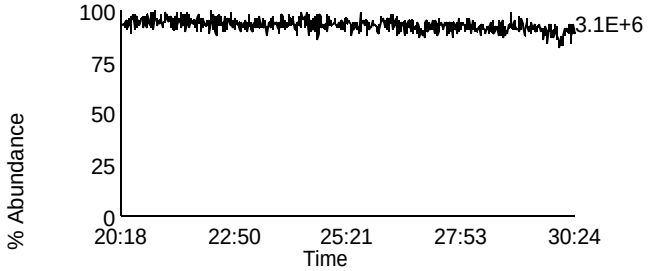
Data File: F140512A_12 G2 C11 - 369.8918
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G2 C12 - 409.7974
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G2 C6 - 354.9792
SAMP 10265141013 - SMT WI

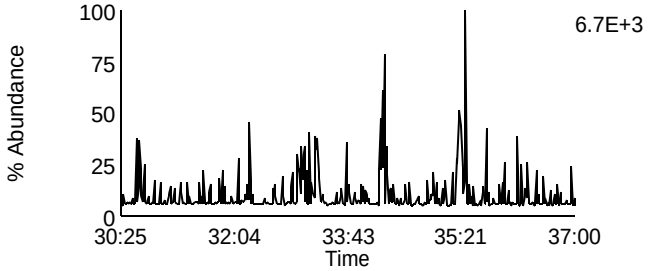


Homologue Group: Hexas

Data File Name: F140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141013 - SMT WI

Lab Sample ID: 10265141013
Client Sample ID: MAK121O
Instrument: 10MSHR05 (F)

Data File: F140512A_12 G3 C1 - 373.8207
SAMP 10265141013 - SMT WI



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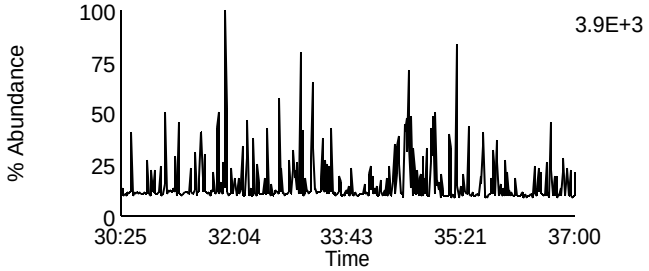
SAMP 10265141013 - SMT WI



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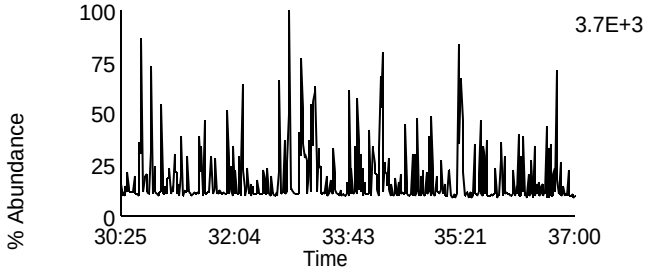
SAMP 10265141013 - SMT WI



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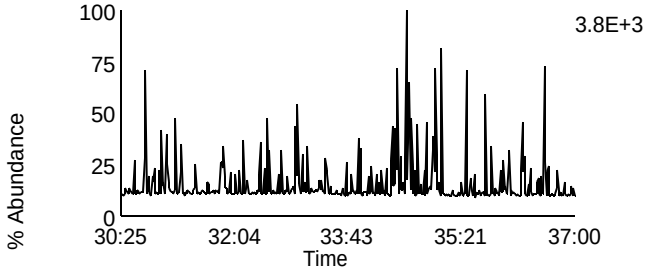
SAMP 10265141013 - SMT WI



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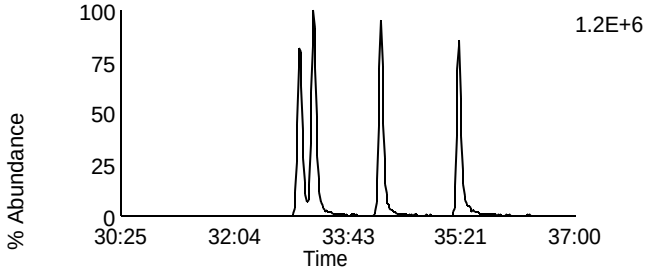
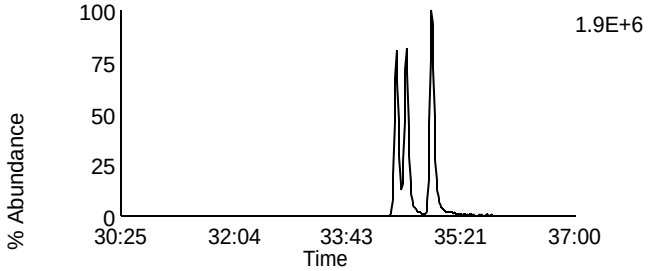
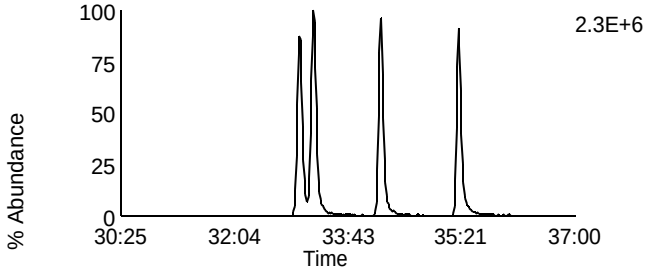
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G3 C9 - 401.8559
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G3 C6 - 385.861
SAMP 10265141013 - SMT WI



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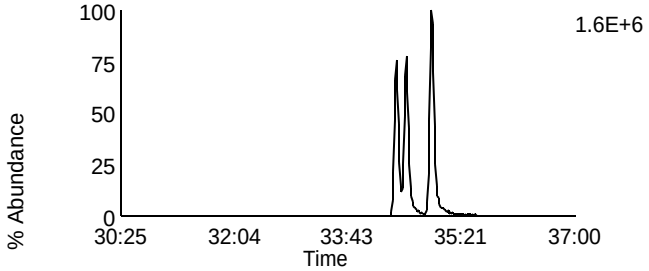
SAMP 10265141013 - SMT WI



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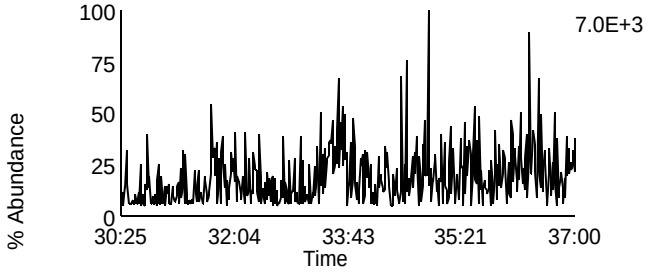
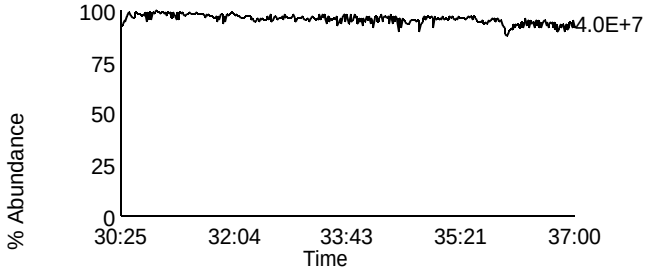
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G3 C3 - 380.976
SAMP 10265141013 - SMT WI

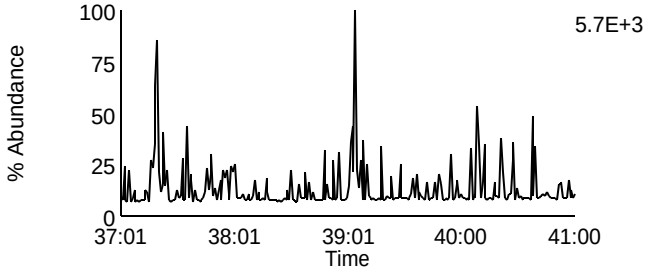


Homologue Group: Heptas

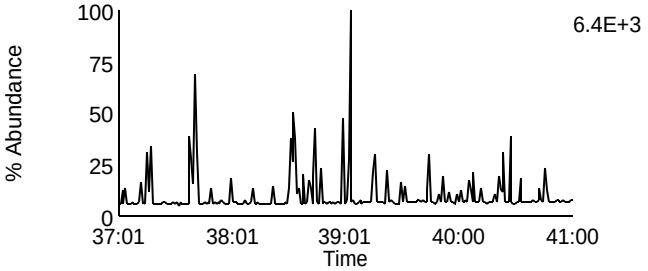
Data File Name: F140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141013 - SMT WI

Lab Sample ID: 10265141013
Client Sample ID: MAK121O
Instrument: 10MSHR05 (F)

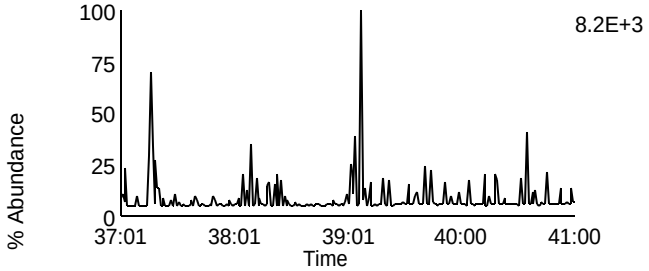
Data File: F140512A_12 G4 C3 - 407.7818
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C8 - 423.7767
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C4 - 409.7788
SAMP 10265141013 - SMT WI



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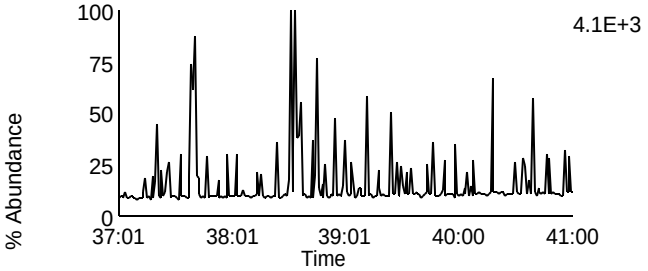
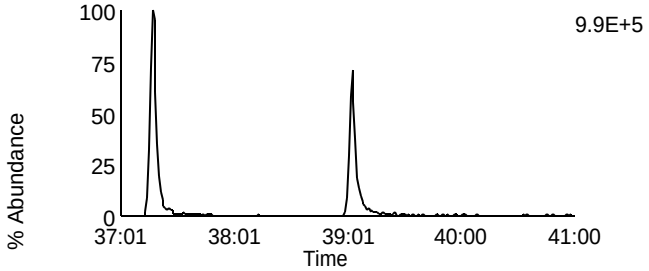
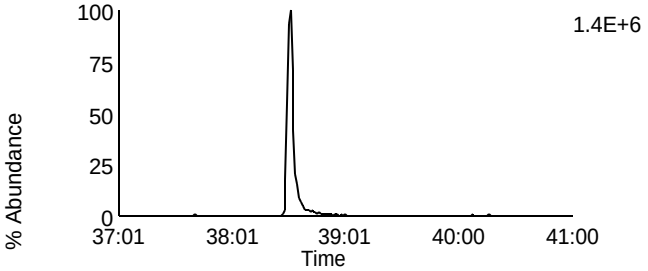
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C6 - 417.825
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C11 - 435.8169
SAMP 10265141013 - SMT WI



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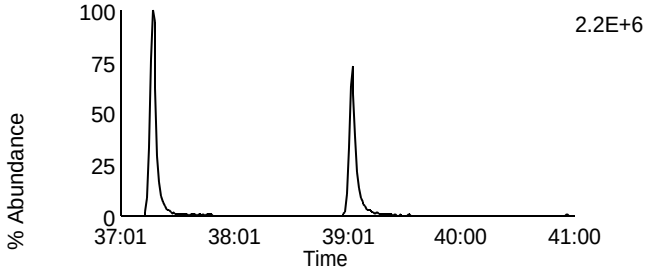
SAMP 10265141013 - SMT WI



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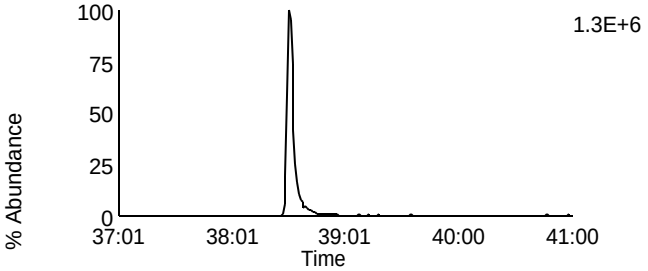
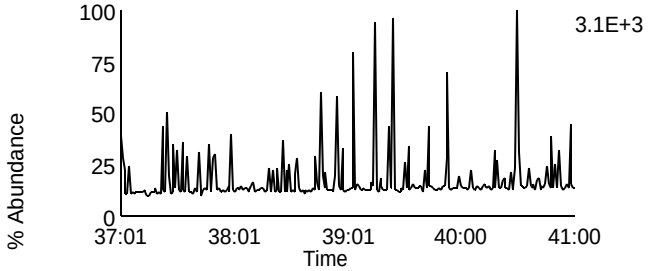
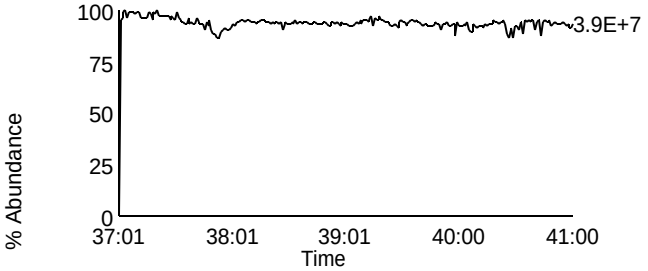
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C13 - 479.7165
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G4 C1 - 380.976
SAMP 10265141013 - SMT WI

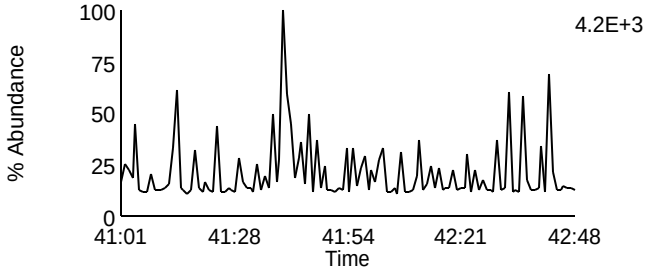


Homologue Group: Octas

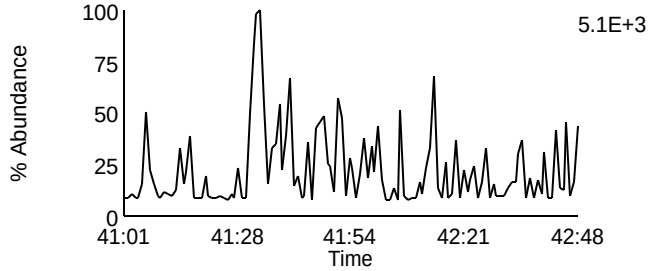
Data File Name: F140512A_12
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141013 - SMT WI

Lab Sample ID: 10265141013
Client Sample ID: MAK121O
Instrument: 10MSHR05 (F)

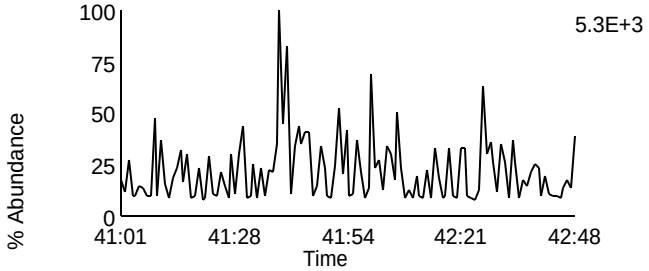
Data File: F140512A_12 G5 C4 - 441.7428
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C8 - 457.7377
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C5 - 443.7398
SAMP 10265141013 - SMT WI



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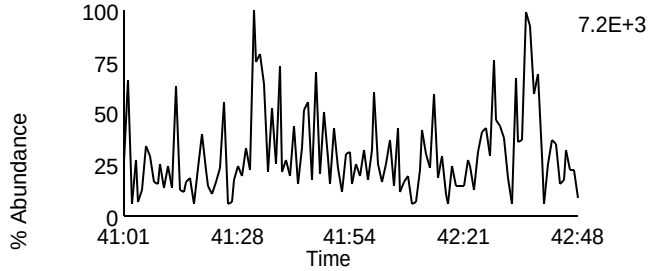
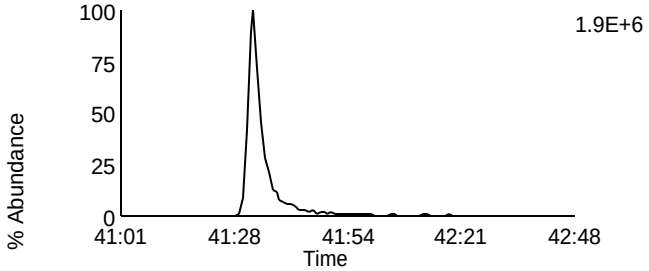
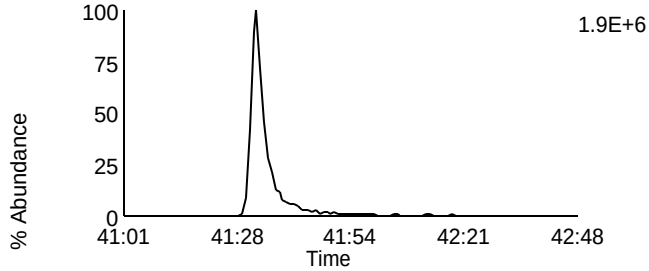
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C11 - 469.7779
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C11 - 469.7779
SAMP 10265141013 - SMT WI



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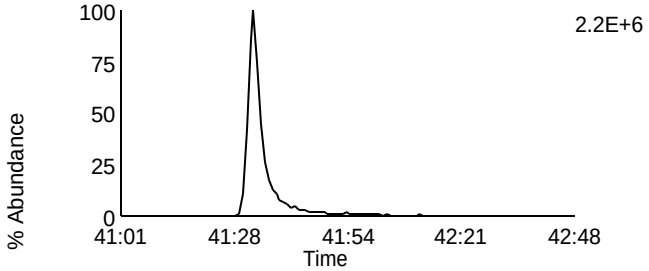
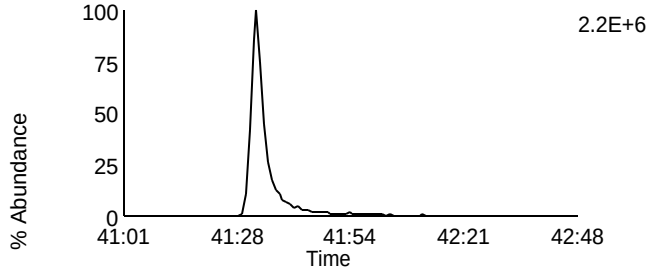
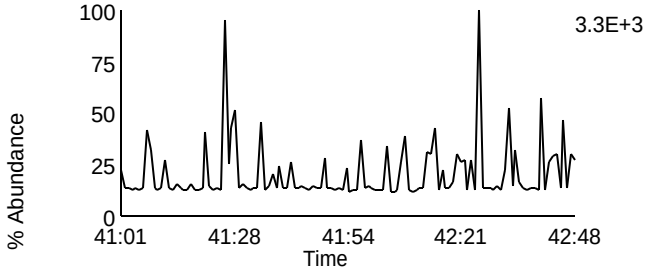
SAMP 10265141013 - SMT WI



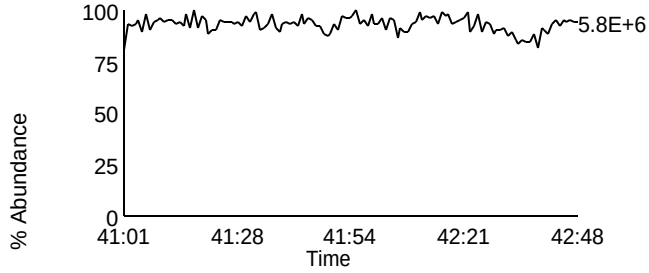
Data File: F140512A_12 G5 C12 - 471.7749
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C13 - 513.6775
SAMP 10265141013 - SMT WI



Data File: F140512A_12 G5 C2 - 430.9728
SAMP 10265141013 - SMT WI

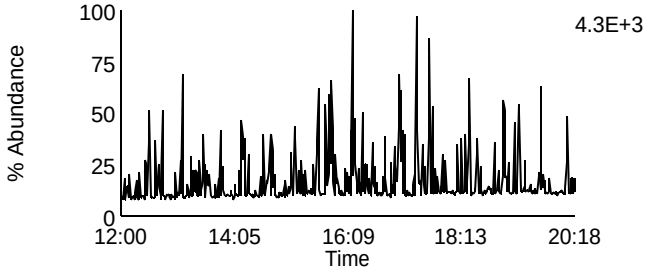


Homologue Group: Tetras

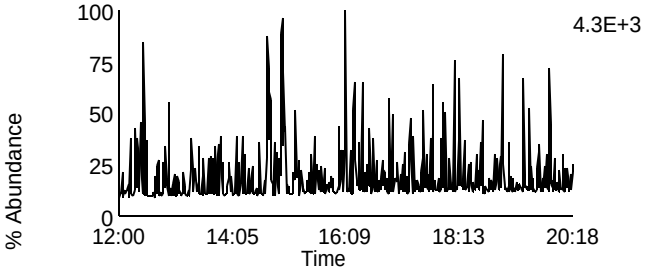
Data File Name: F140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141014 - SMT WI

Lab Sample ID: 10265141014
Client Sample ID: MAK122O
Instrument: 10MSHR05 (F)

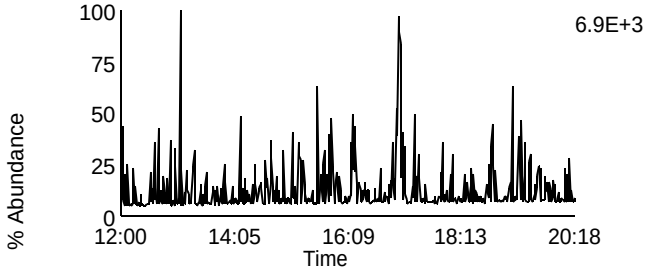
Data File: F140512A_13 G1 C1 - 303.9016
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G1 C7 - 319.8965
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G1 C2 - 305.8987
SAMP 10265141014 - SMT WI



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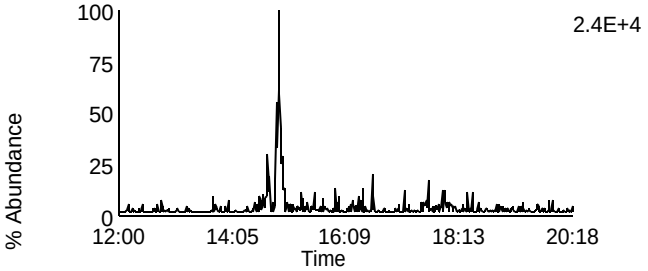
SAMP 10265141014 - SMT WI



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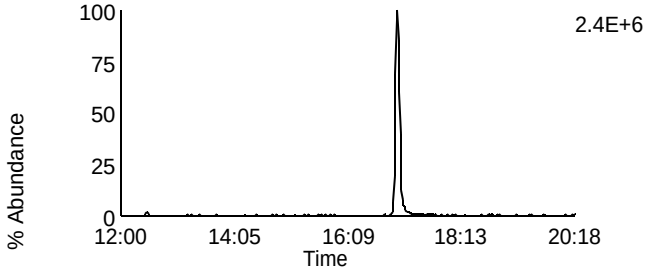
SAMP 10265141014 - SMT WI



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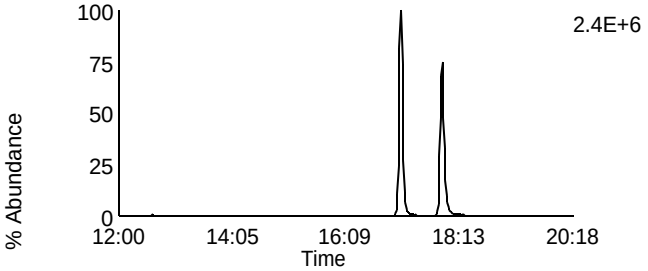
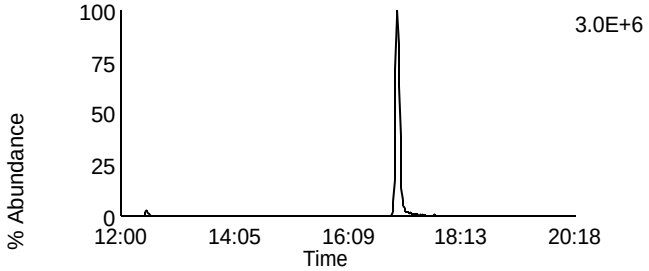
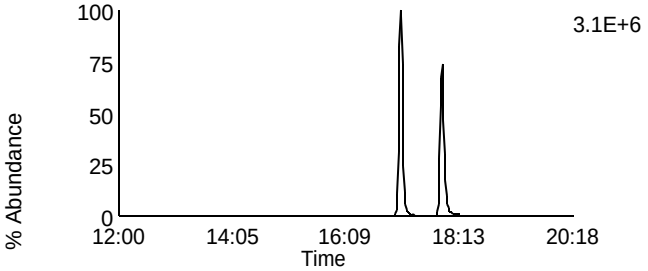
SAMP 10265141014 - SMT WI



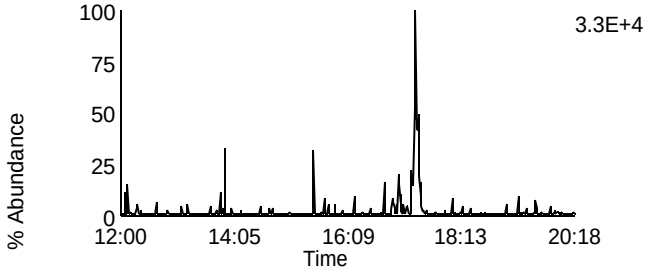
Data File: F140512A_13 G1 C4 - 317.9389
SAMP 10265141014 - SMT WI



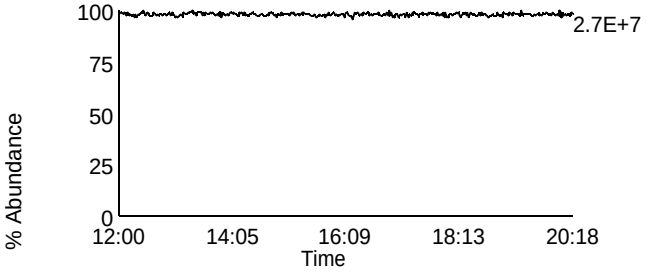
Data File: F140512A_13 G1 C11 - 333.9338
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G1 C14 - 375.8364
SAMP 10265141014 - SMT WI



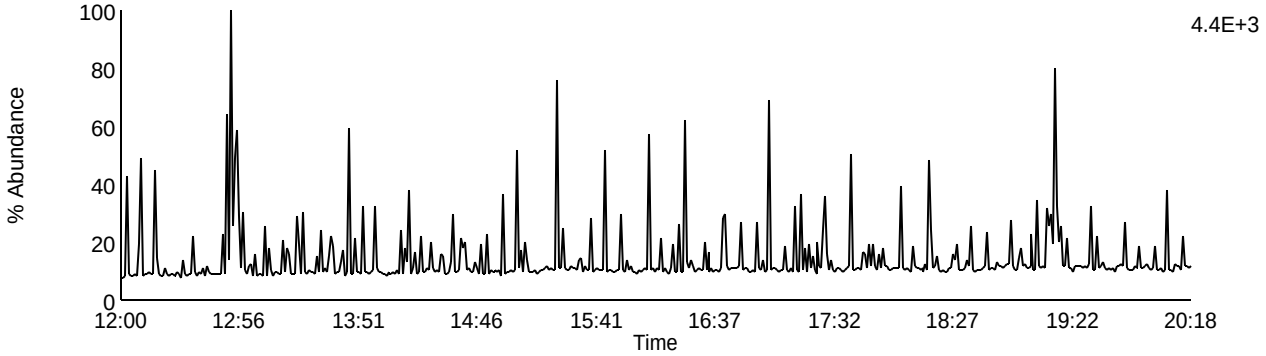
Data File: F140512A_13 G1 C5 - 318.9792
SAMP 10265141014 - SMT WI



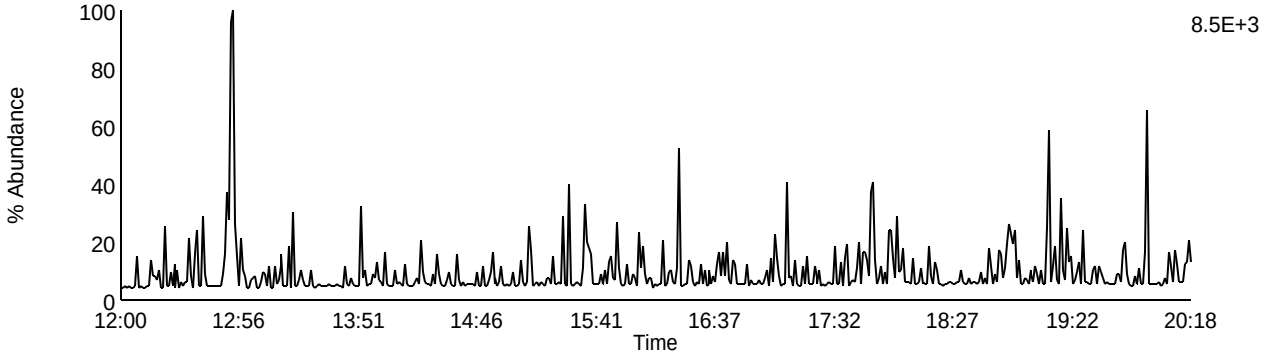
Homologue Group: Penta & Cleanup

Data File Name: F140512A_13	Lab Sample ID: 10265141014
Date Acquired: 5/12/2014	Client Sample ID: MAK122O
Sample Description: SAMP 10265141014 - SMT WI	Instrument: 10MSHR05 (F)

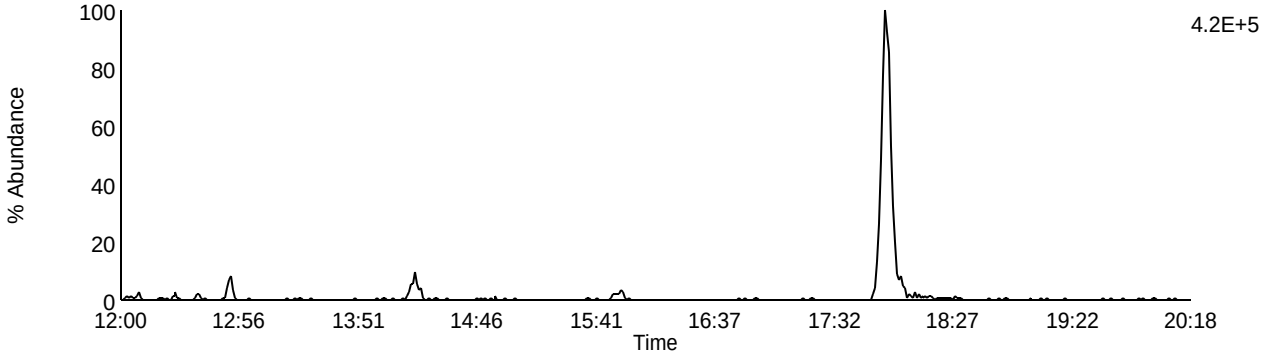
Data File: F140512A_13 G1 C12 - 339.8597
SAMP 10265141014 - SMT WI



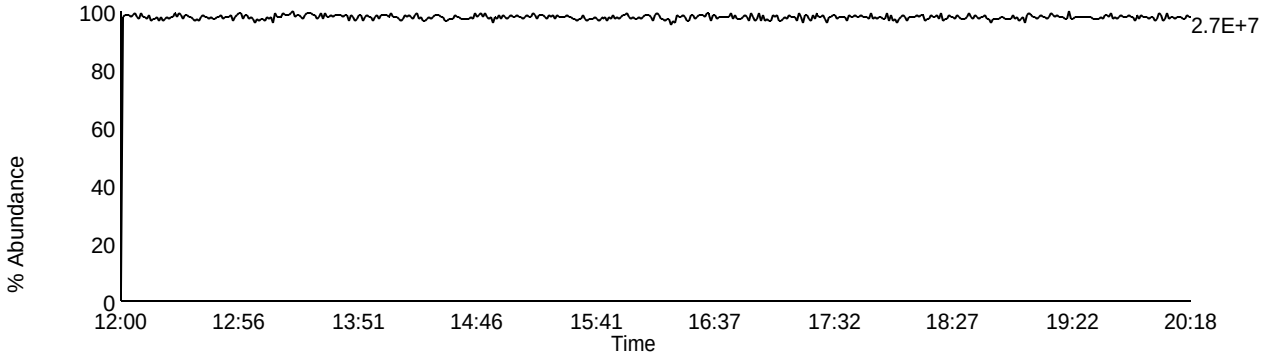
Data File: F140512A_13 G1 C13 - 341.8567
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G1 C9 - 327.8847
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G1 C5 - 318.9792
SAMP 10265141014 - SMT WI

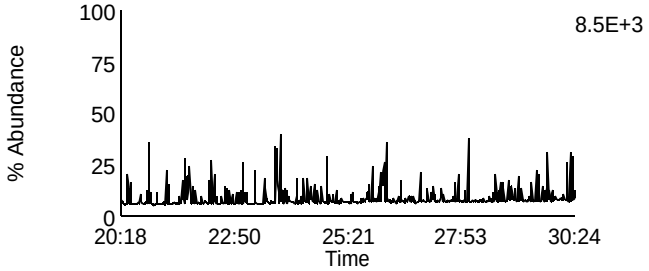


Homologue Group: Pentas

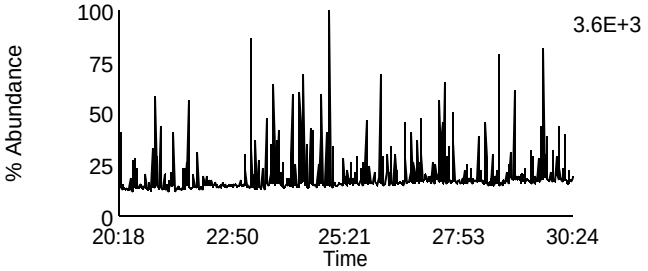
Data File Name: F140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141014 - SMT WI

Lab Sample ID: 10265141014
Client Sample ID: MAK122O
Instrument: 10MSHR05 (F)

Data File: F140512A_13 G2 C1 - 339.8597
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G2 C4 - 353.8576
SAMP 10265141014 - SMT WI



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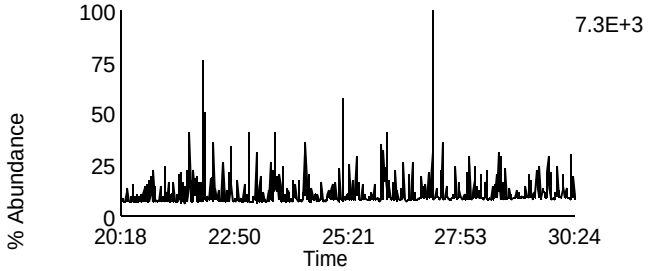
SAMP 10265141014 - SMT WI



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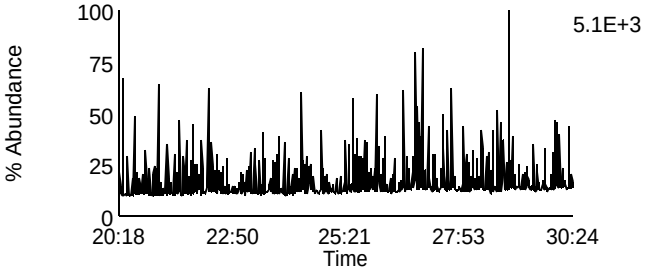
SAMP 10265141014 - SMT WI



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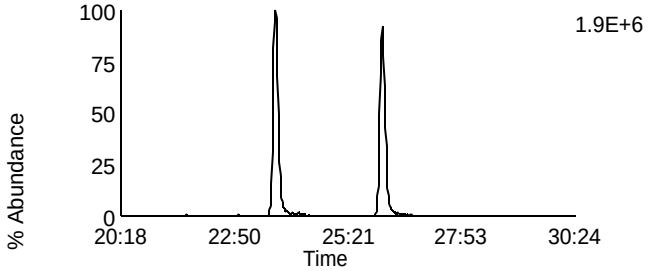
SAMP 10265141014 - SMT WI



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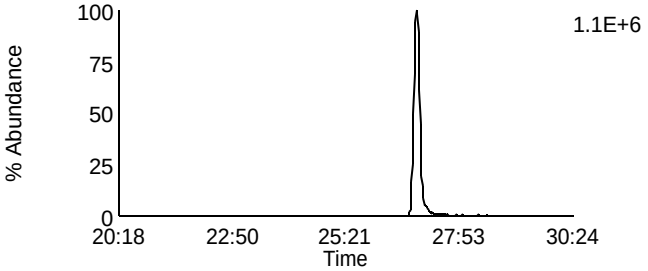
SAMP 10265141014 - SMT WI



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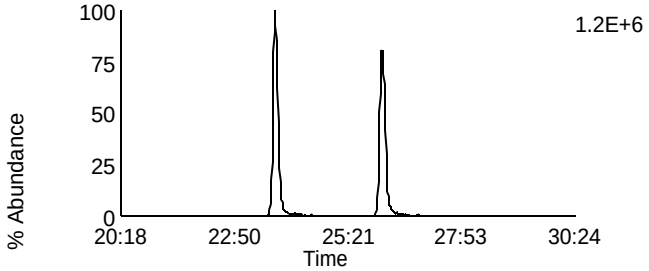
SAMP 10265141014 - SMT WI



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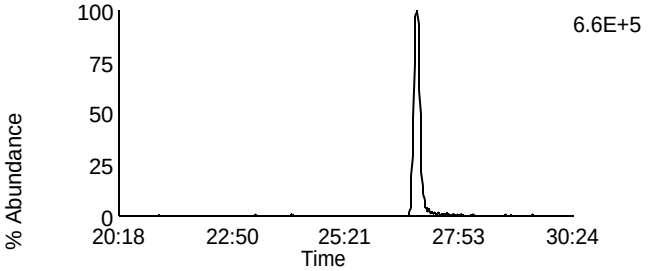
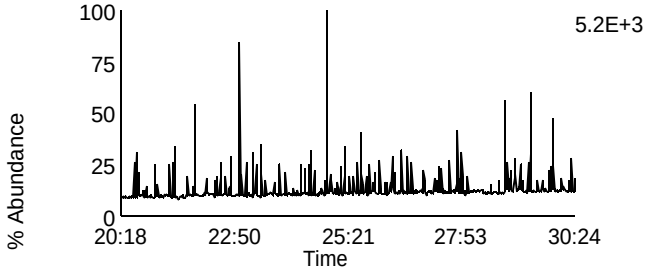
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G2 C12 - 409.7974
SAMP 10265141014 - SMT WI



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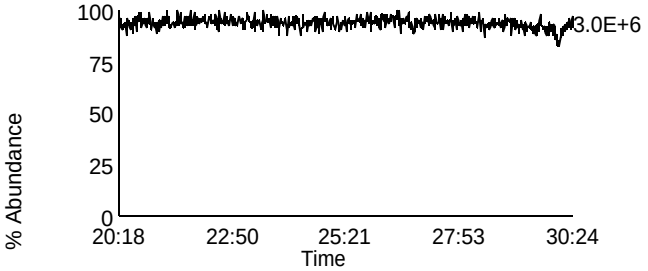
SAMP 10265141014 - SMT WI

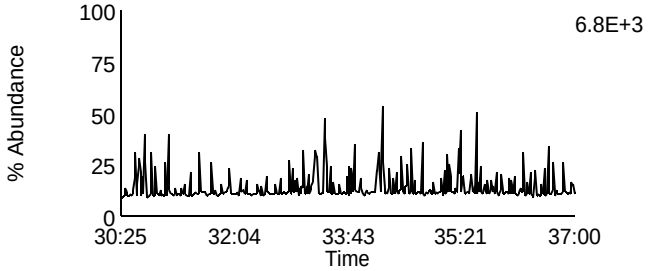


Homologue Group: Hexas

Data File Name: F140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141014 - SMT WI

Lab Sample ID: 10265141014
Client Sample ID: MAK122O
Instrument: 10MSHR05 (F)

Data File: F140512A_13 G3 C1 - 373.8207
SAMP 10265141014 - SMT WI



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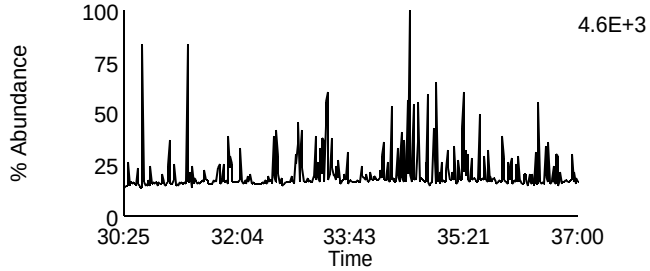
SAMP 10265141014 - SMT WI



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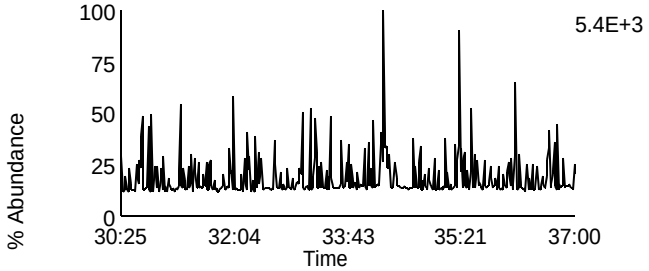
SAMP 10265141014 - SMT WI



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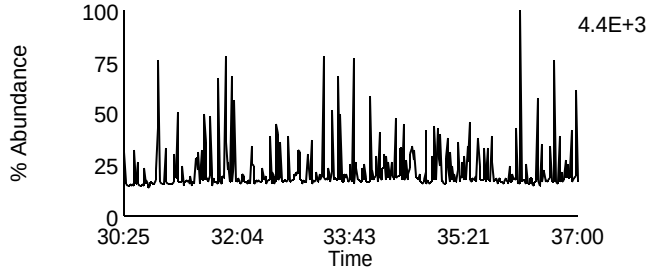
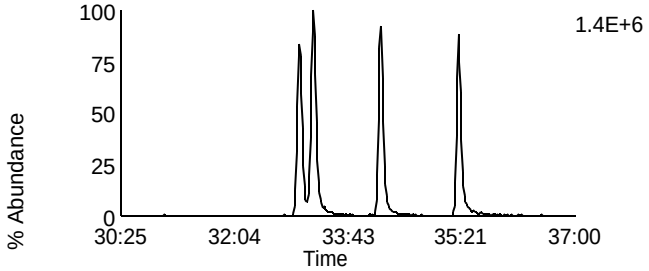
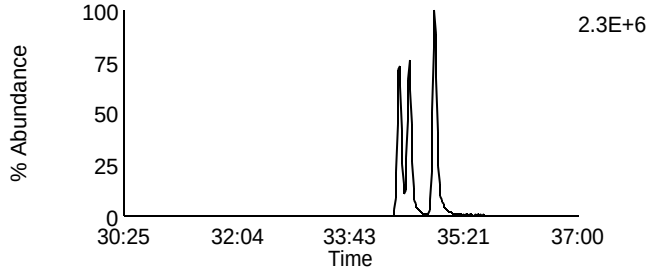
SAMP 10265141014 - SMT WI



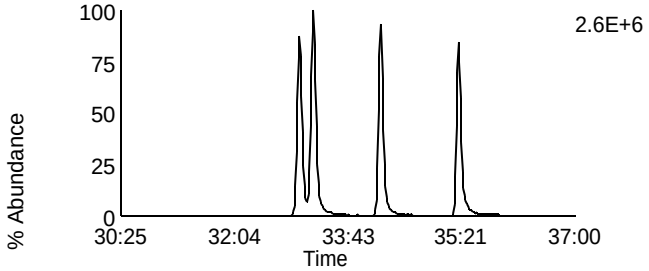
Data File: F140512A_13 G3 C5 - 383.8639
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G3 C9 - 401.8559
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G3 C6 - 385.861
SAMP 10265141014 - SMT WI



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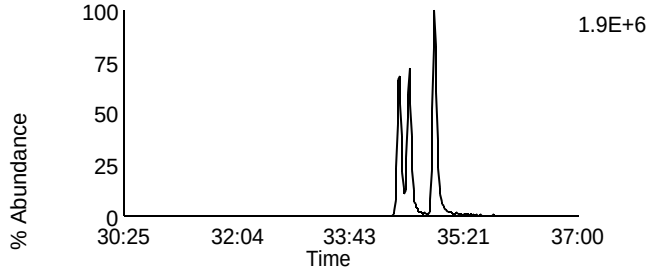
SAMP 10265141014 - SMT WI



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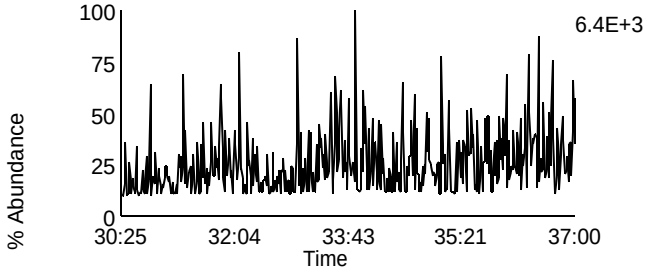
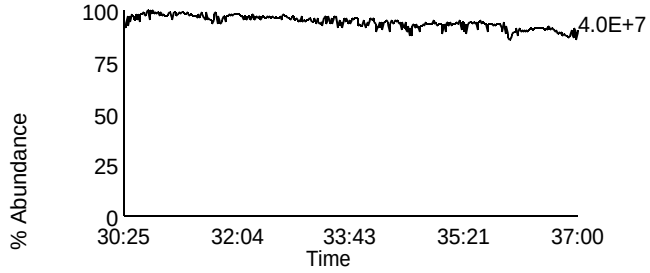
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G3 C3 - 380.976
SAMP 10265141014 - SMT WI

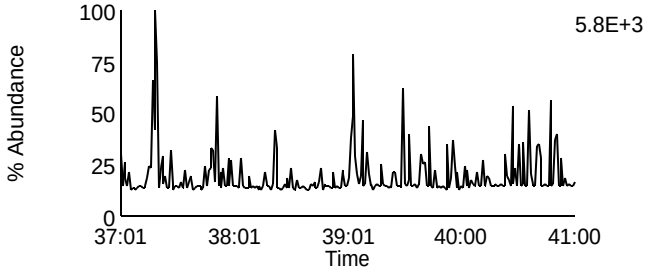


Homologue Group: Heptas

Data File Name: F140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141014 - SMT WI

Lab Sample ID: 10265141014
Client Sample ID: MAK122O
Instrument: 10MSHR05 (F)

Data File: F140512A_13 G4 C3 - 407.7818
SAMP 10265141014 - SMT WI



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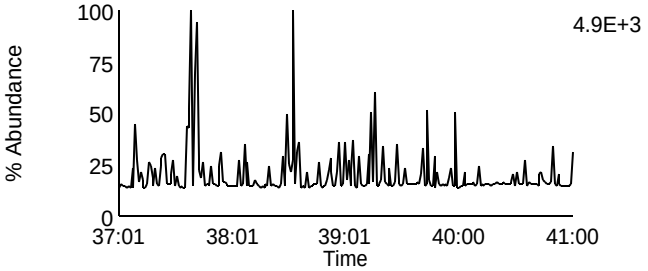
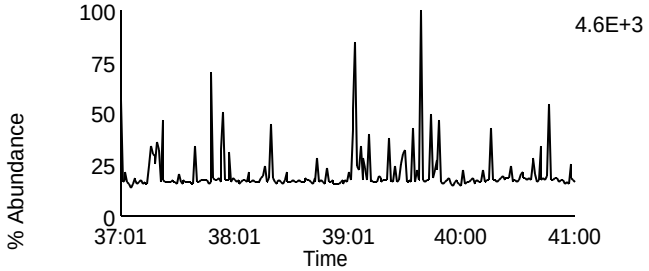
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G4 C4 - 409.7788
SAMP 10265141014 - SMT WI



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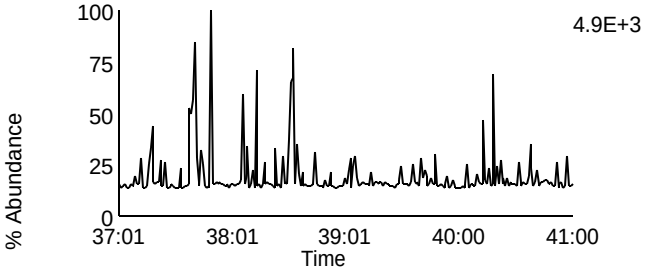
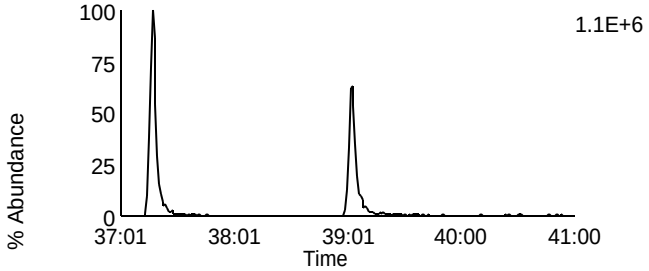
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G4 C6 - 417.825
SAMP 10265141014 - SMT WI



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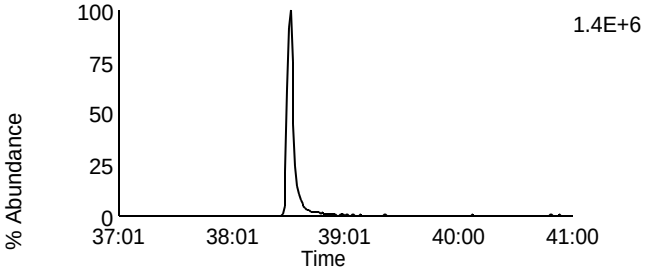
SAMP 10265141014 - SMT WI



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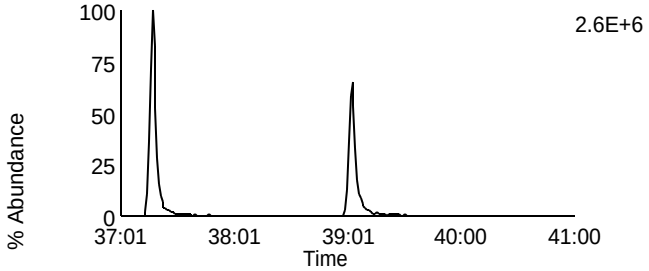
SAMP 10265141014 - SMT WI



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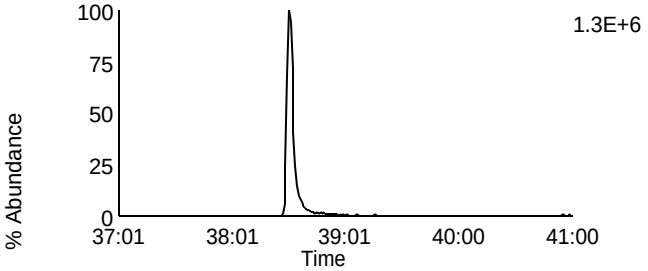
SAMP 10265141014 - SMT WI



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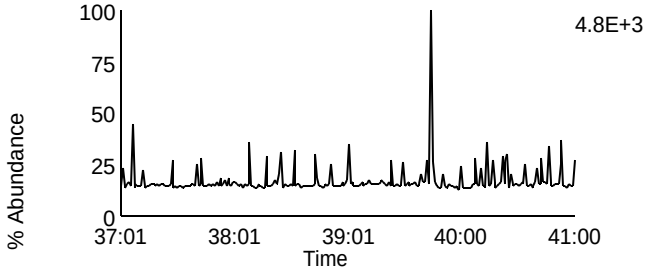
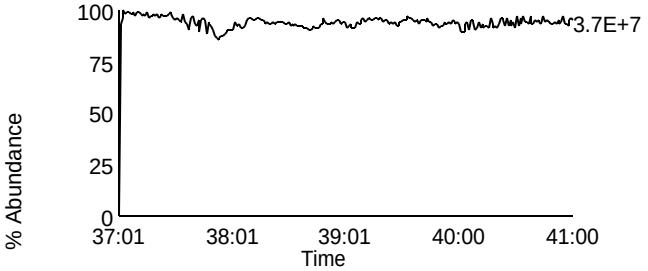
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G4 C1 - 380.976
SAMP 10265141014 - SMT WI

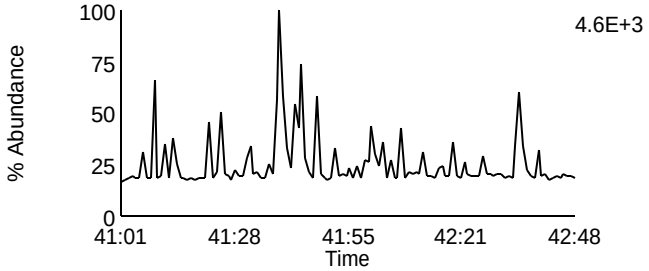


Homologue Group: Octas

Data File Name: F140512A_13
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141014 - SMT WI

Lab Sample ID: 10265141014
Client Sample ID: MAK122O
Instrument: 10MSHR05 (F)

Data File: F140512A_13 G5 C4 - 441.7428
SAMP 10265141014 - SMT WI



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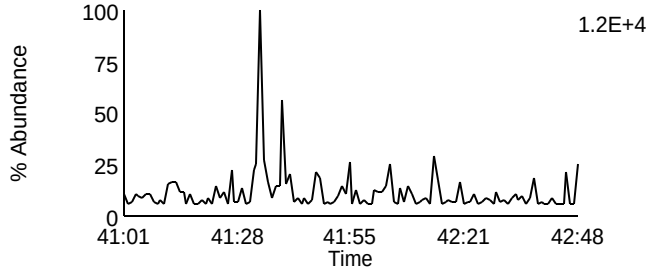
SAMP 10265141014 - SMT WI



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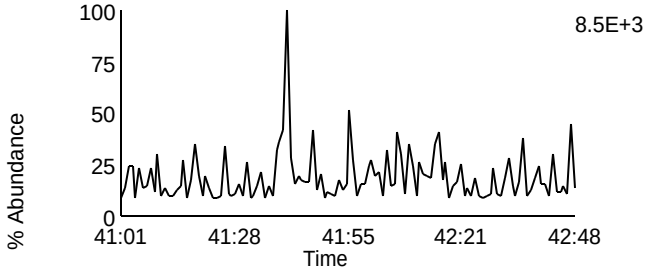
SAMP 10265141014 - SMT WI



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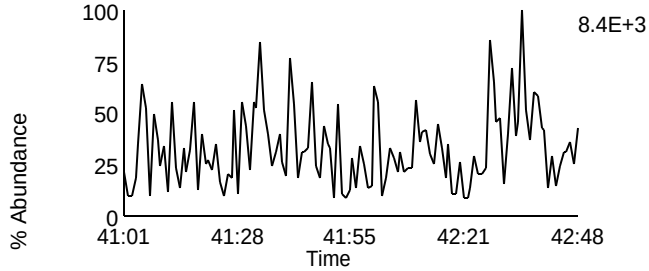
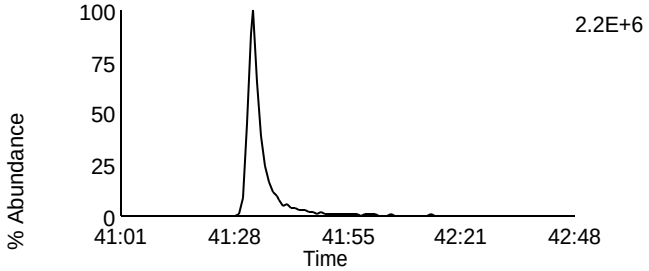
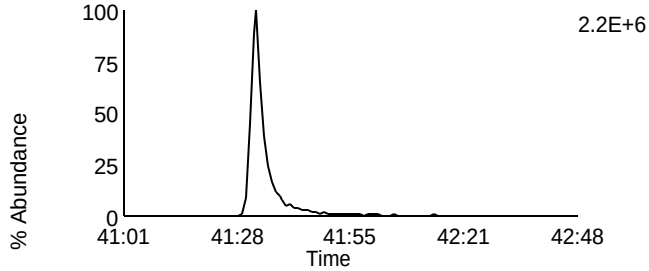
SAMP 10265141014 - SMT WI



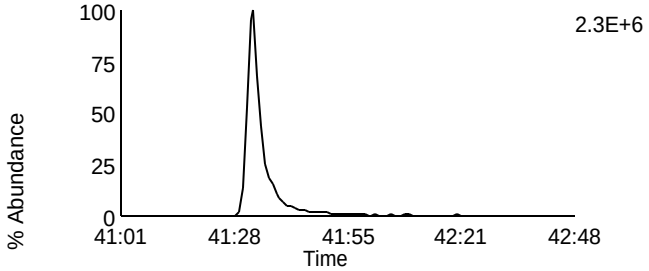
Data File: F140512A_13 G5 C11 - 469.7779
SAMP 10265141014 - SMT WI



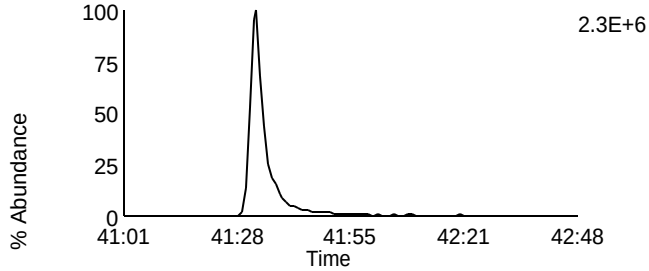
Data File: F140512A_13 G5 C11 - 469.7779
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G5 C12 - 471.7749
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G5 C12 - 471.7749
SAMP 10265141014 - SMT WI



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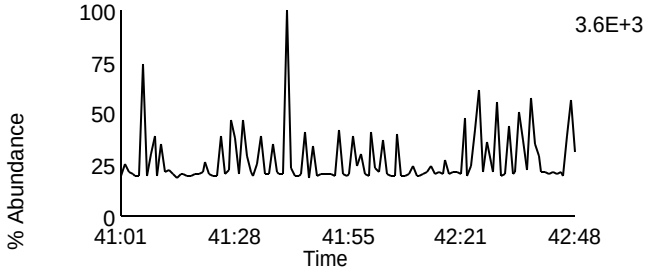
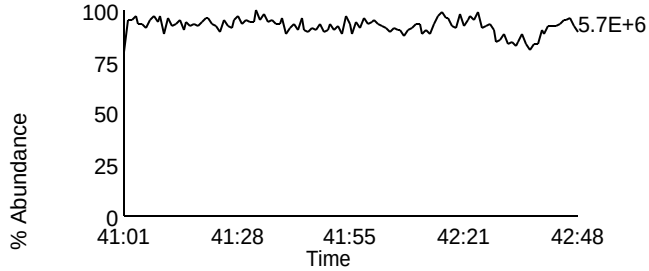
SAMP 10265141014 - SMT WI



Data File: F140512A_13 G5 C2 - 430.9728
SAMP 10265141014 - SMT WI

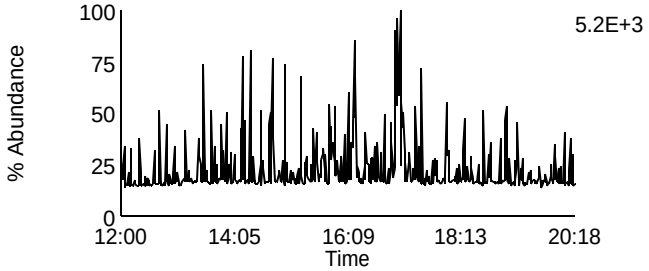


Homologue Group: Tetras

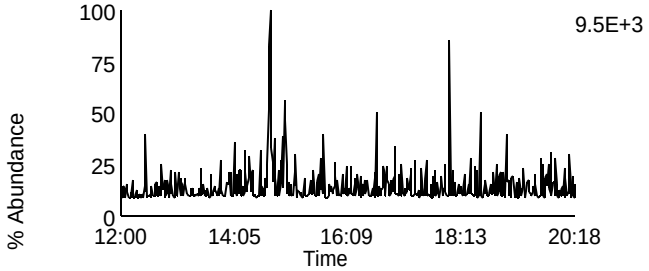
Data File Name: F140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141015 - SMT WI

Lab Sample ID: 10265141015
Client Sample ID: MAK123O
Instrument: 10MSHR05 (F)

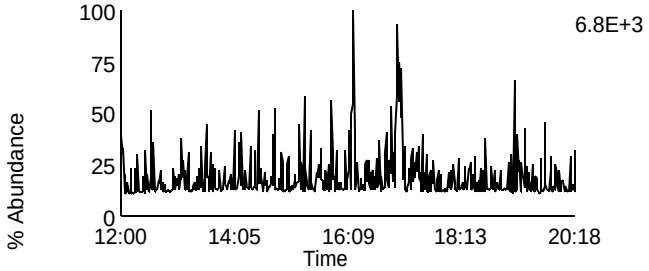
Data File: F140512A_14 G1 C1 - 303.9016
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G1 C7 - 319.8965
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G1 C2 - 305.8987
SAMP 10265141015 - SMT WI



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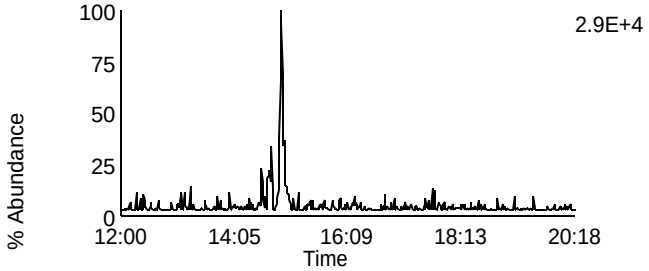
SAMP 10265141015 - SMT WI



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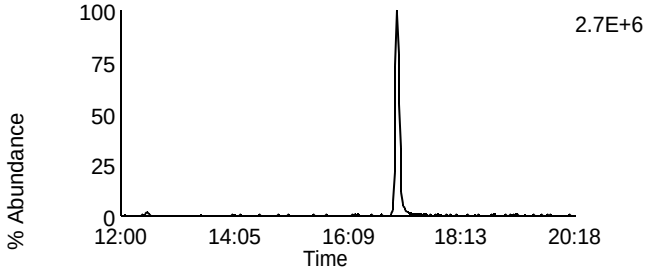
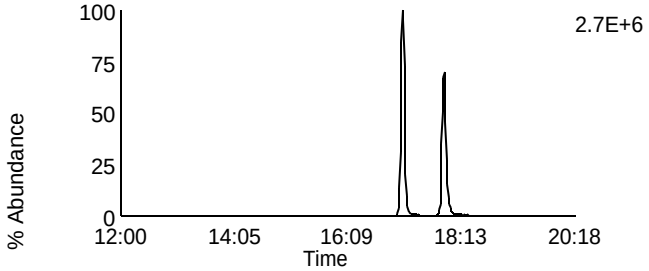
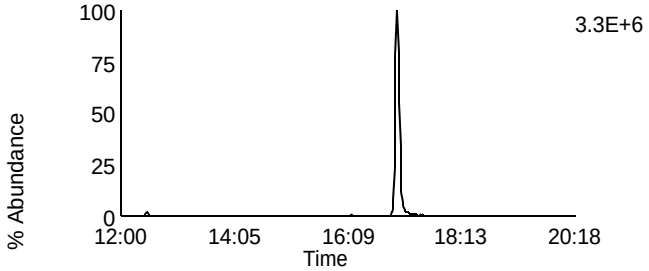
SAMP 10265141015 - SMT WI



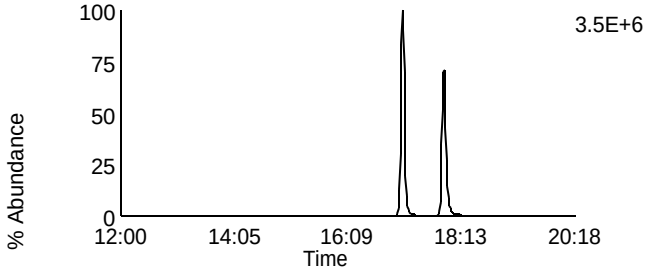
Data File: F140512A_14 G1 C10 - 331.9367
SAMP 10265141015 - SMT WI



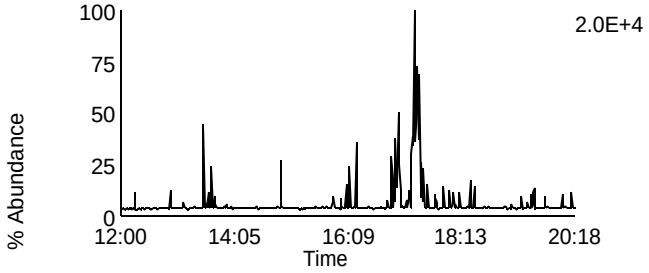
Data File: F140512A_14 G1 C4 - 317.9389
SAMP 10265141015 - SMT WI



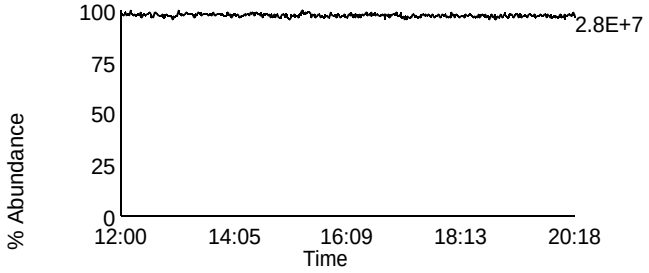
Data File: F140512A_14 G1 C11 - 333.9338
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G1 C14 - 375.8364
SAMP 10265141015 - SMT WI

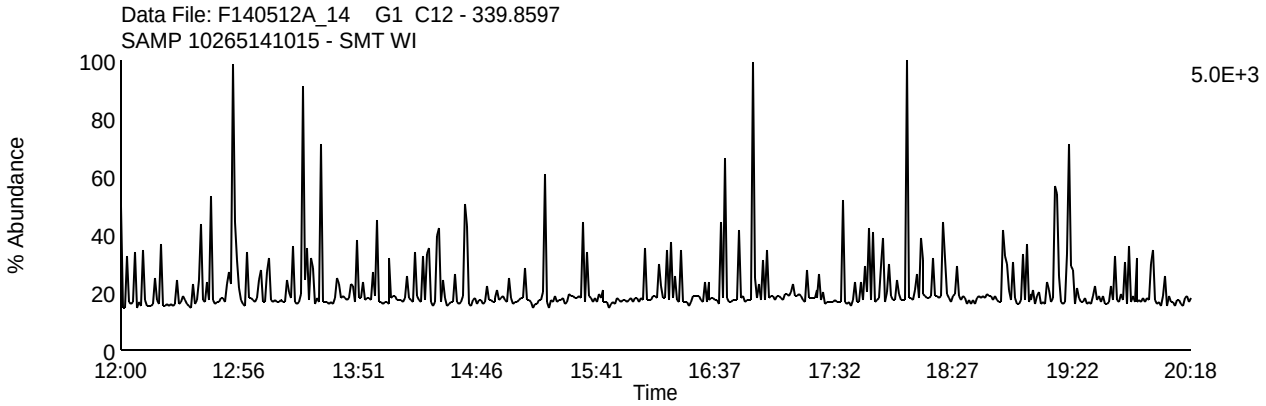


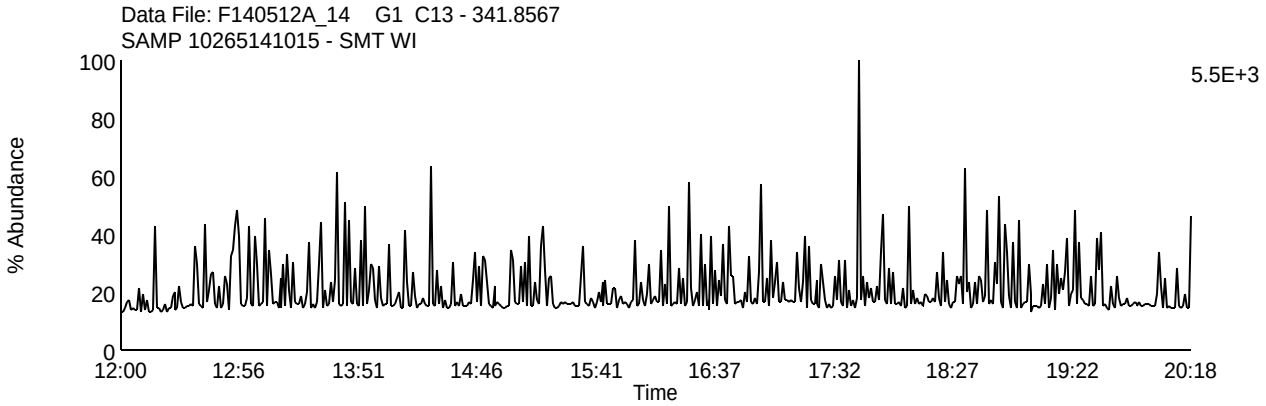
Data File: F140512A_14 G1 C5 - 318.9792
SAMP 10265141015 - SMT WI

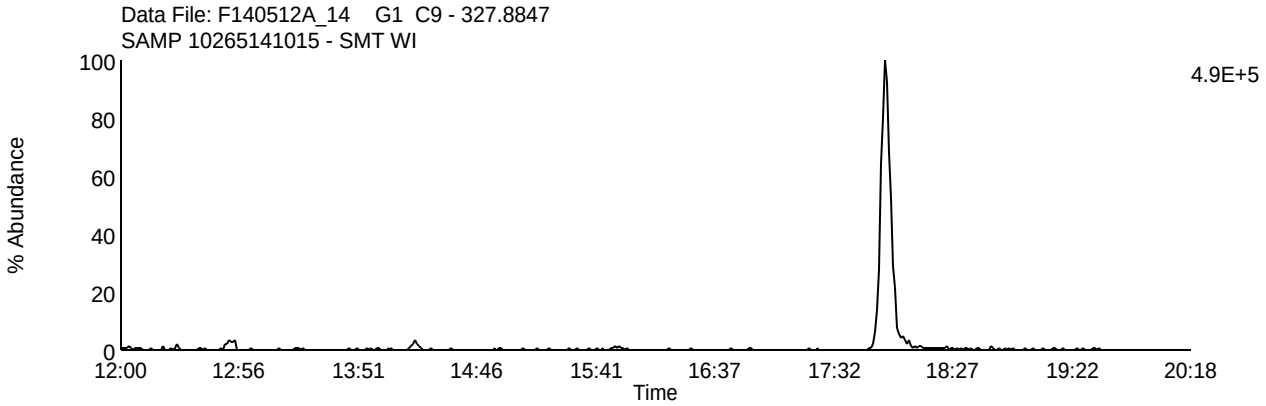


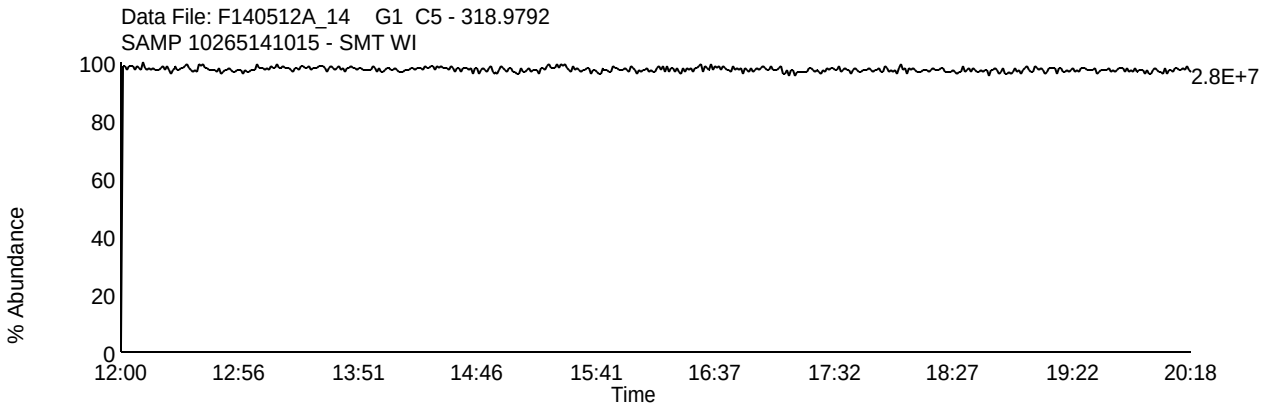
Homologue Group: Penta & Cleanup

Data File Name: F140512A_14	Lab Sample ID: 10265141015
Date Acquired: 5/12/2014	Client Sample ID: MAK123O
Sample Description: SAMP 10265141015 - SMT WI	Instrument: 10MSHR05 (F)







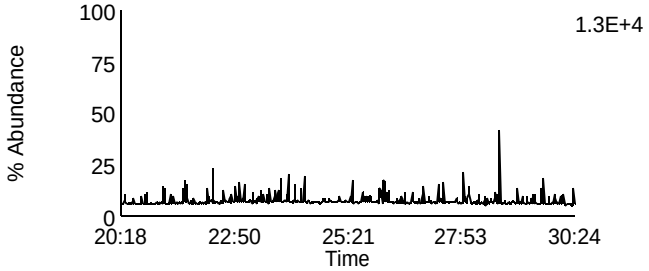


Homologue Group: Pentas

Data File Name: F140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141015 - SMT WI

Lab Sample ID: 10265141015
Client Sample ID: MAK123O
Instrument: 10MSHR05 (F)

Data File: F140512A_14 G2 C1 - 339.8597
SAMP 10265141015 - SMT WI



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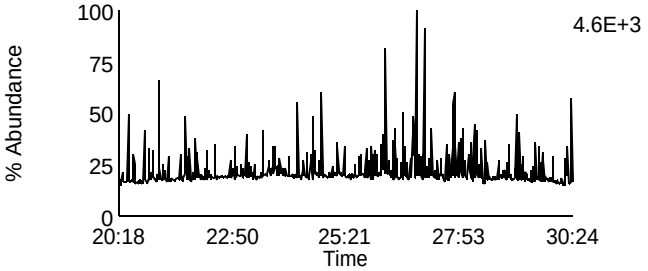
SAMP 10265141015 - SMT WI



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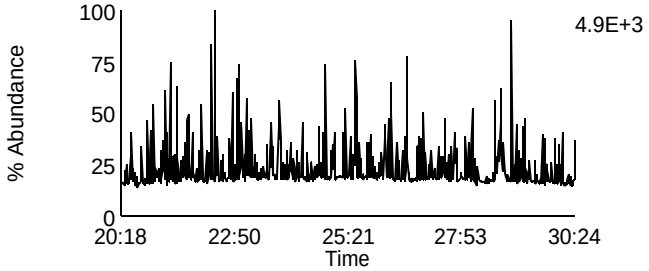
SAMP 10265141015 - SMT WI



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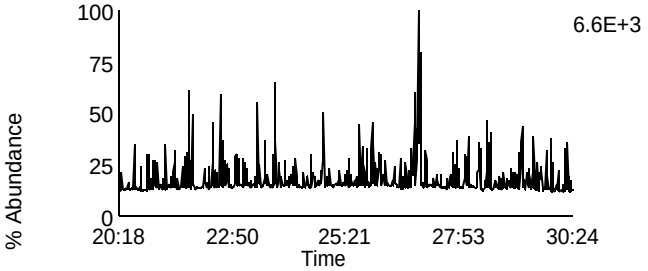
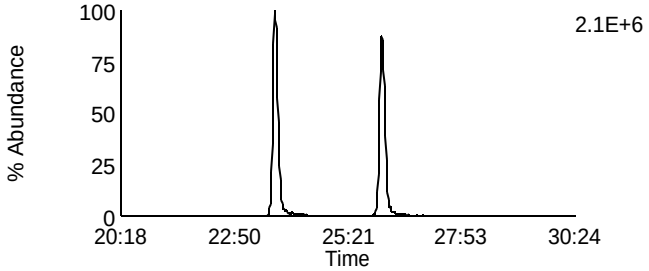
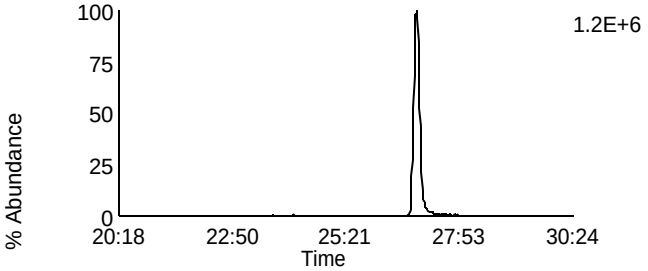
SAMP 10265141015 - SMT WI



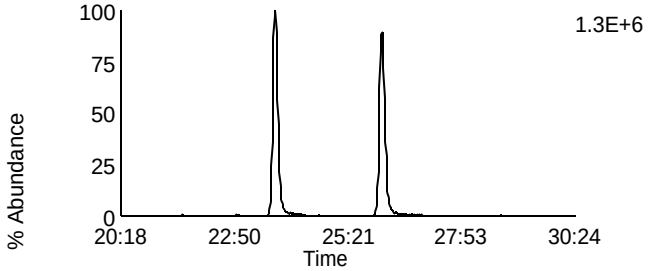
Data File: F140512A_14 G2 C3 - 351.8999
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G2 C10 - 367.8948
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G2 C5 - 353.8969
SAMP 10265141015 - SMT WI



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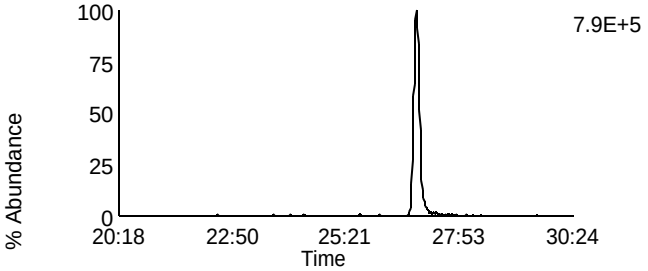
SAMP 10265141015 - SMT WI



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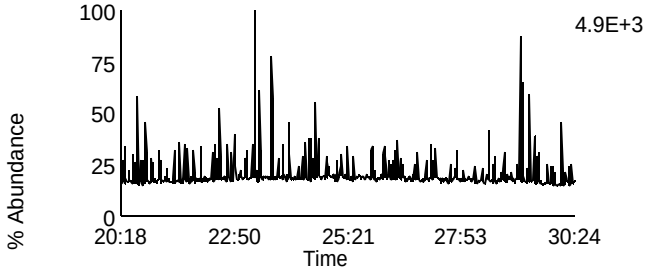
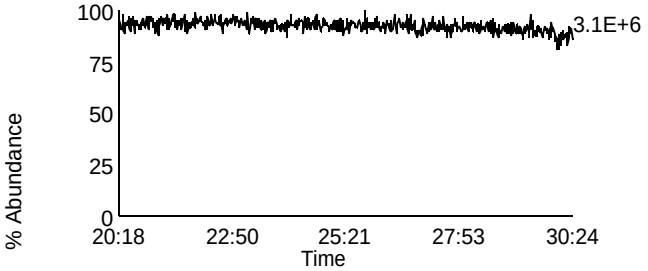
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G2 C6 - 354.9792
SAMP 10265141015 - SMT WI

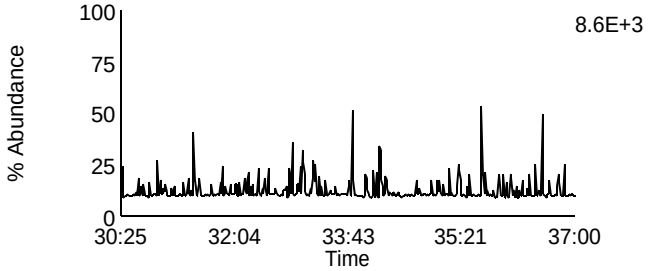


Homologue Group: Hexas

Data File Name: F140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141015 - SMT WI

Lab Sample ID: 10265141015
Client Sample ID: MAK123O
Instrument: 10MSHR05 (F)

Data File: F140512A_14 G3 C1 - 373.8207
SAMP 10265141015 - SMT WI



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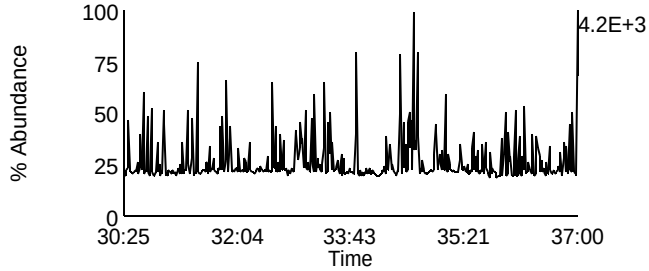
SAMP 10265141015 - SMT WI



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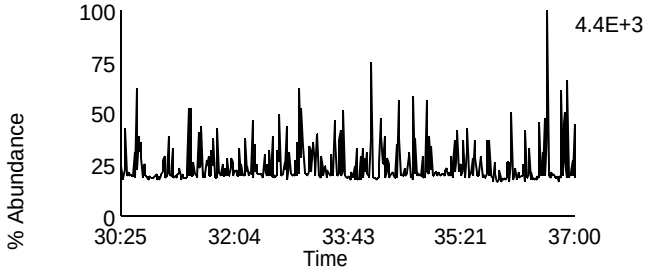
SAMP 10265141015 - SMT WI



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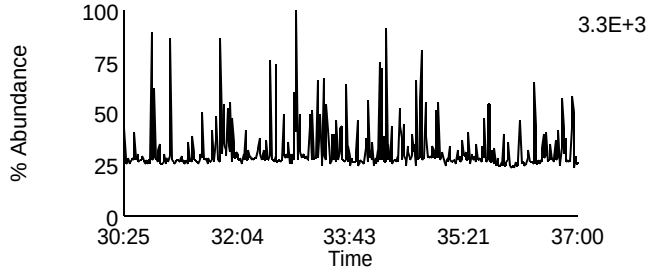
SAMP 10265141015 - SMT WI



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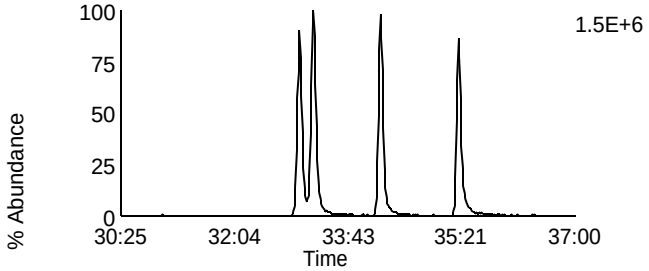
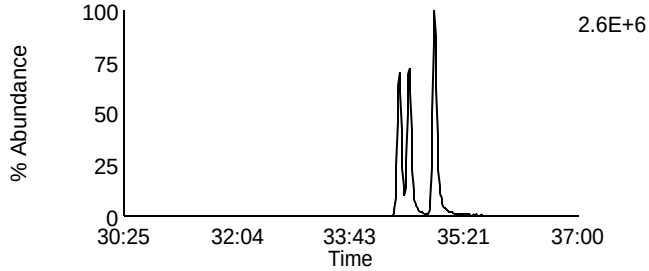
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G3 C9 - 401.8559
SAMP 10265141015 - SMT WI



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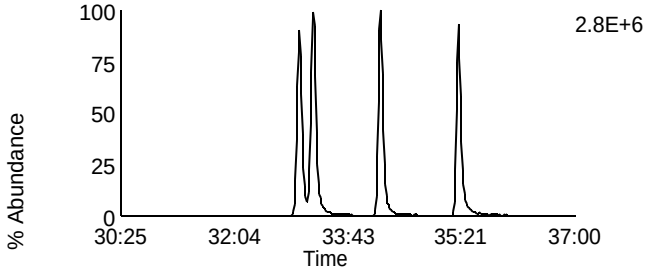
SAMP 10265141015 - SMT WI



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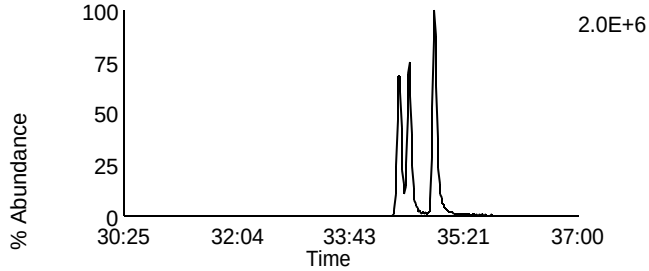
SAMP 10265141015 - SMT WI



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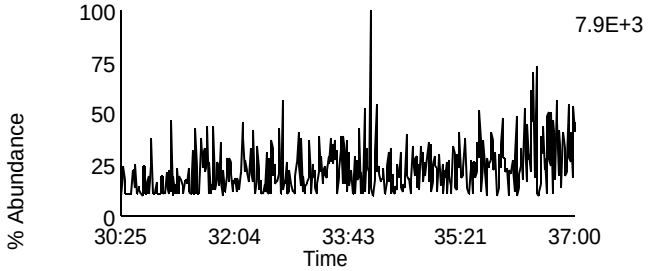
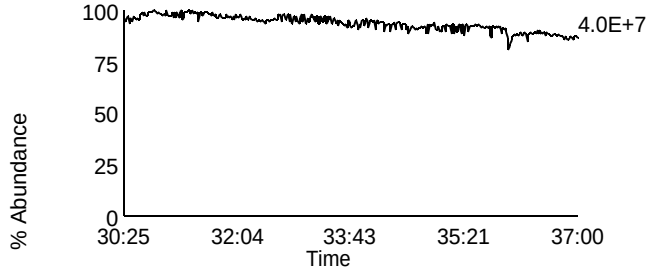
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G3 C3 - 380.976
SAMP 10265141015 - SMT WI

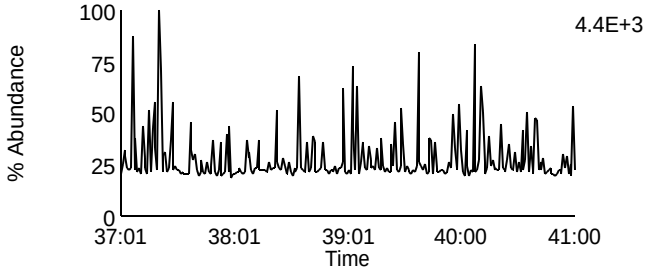


Homologue Group: Heptas

Data File Name: F140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141015 - SMT WI

Lab Sample ID: 10265141015
Client Sample ID: MAK123O
Instrument: 10MSHR05 (F)

Data File: F140512A_14 G4 C3 - 407.7818
SAMP 10265141015 - SMT WI



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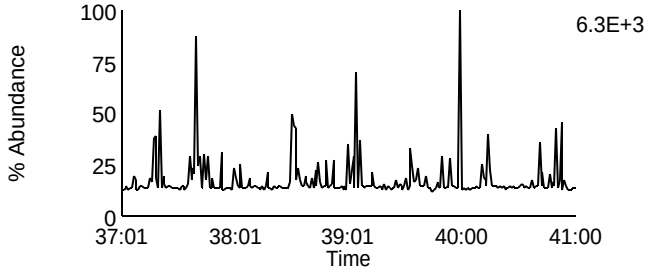
SAMP 10265141015 - SMT WI



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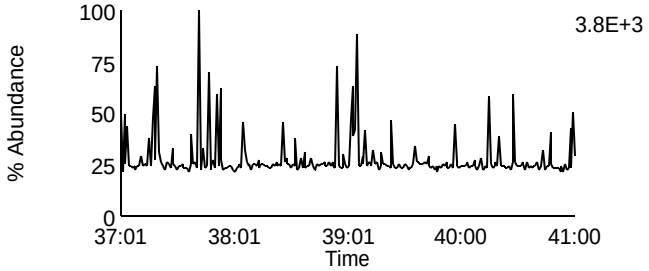
SAMP 10265141015 - SMT WI



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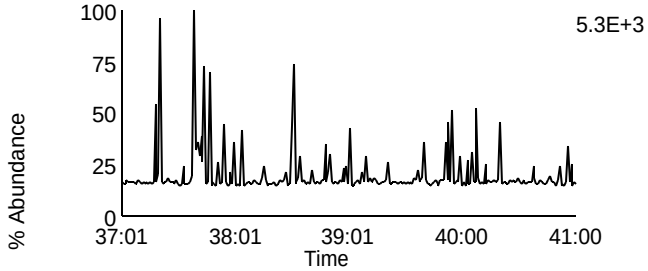
SAMP 10265141015 - SMT WI



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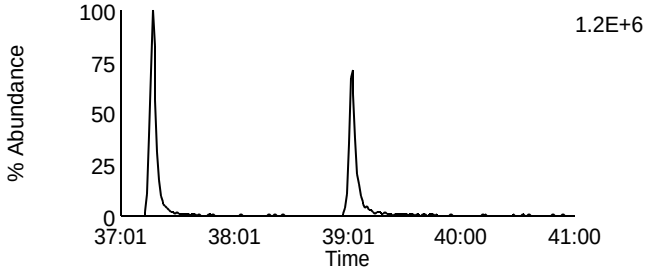
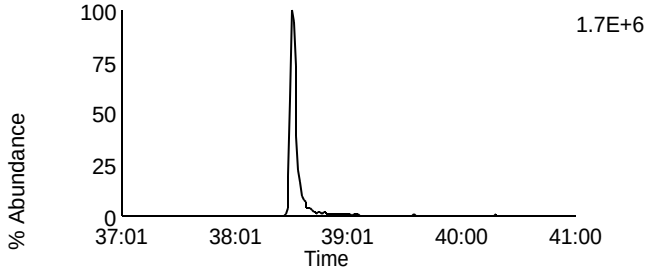
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G4 C11 - 435.8169
SAMP 10265141015 - SMT WI



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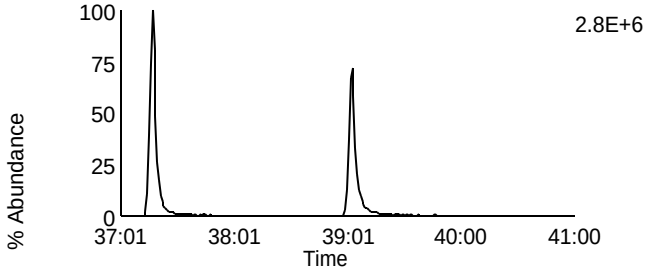
SAMP 10265141015 - SMT WI



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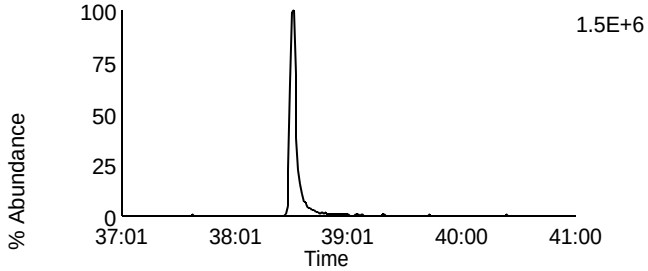
SAMP 10265141015 - SMT WI



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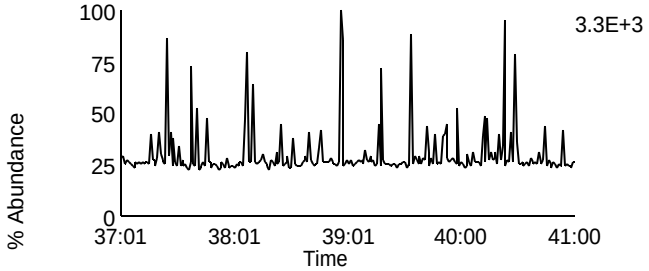
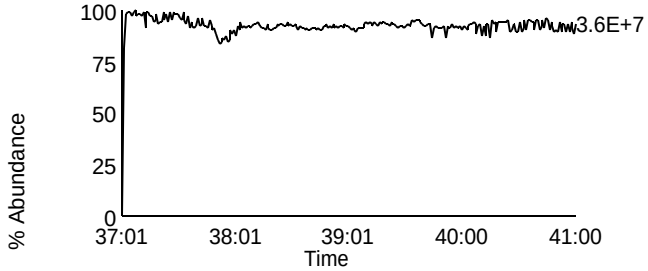
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G4 C1 - 380.976
SAMP 10265141015 - SMT WI

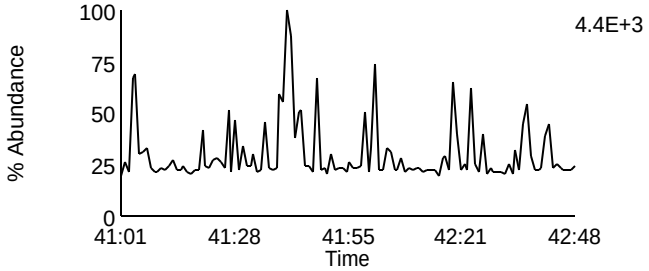


Homologue Group: Octas

Data File Name: F140512A_14
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141015 - SMT WI

Lab Sample ID: 10265141015
Client Sample ID: MAK123O
Instrument: 10MSHR05 (F)

Data File: F140512A_14 G5 C4 - 441.7428
SAMP 10265141015 - SMT WI



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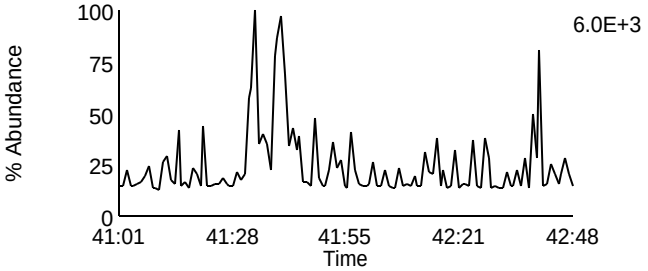
SAMP 10265141015 - SMT WI



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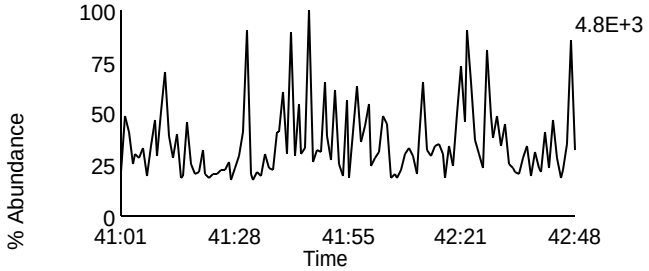
SAMP 10265141015 - SMT WI



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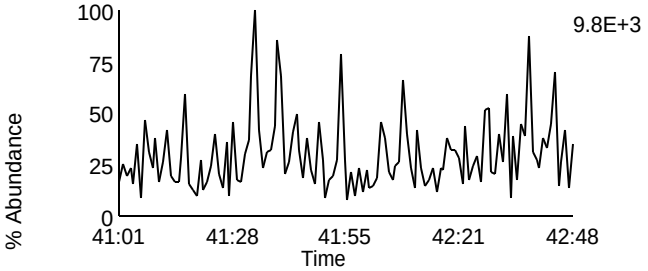
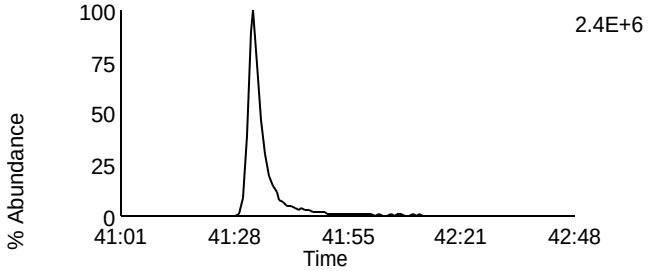
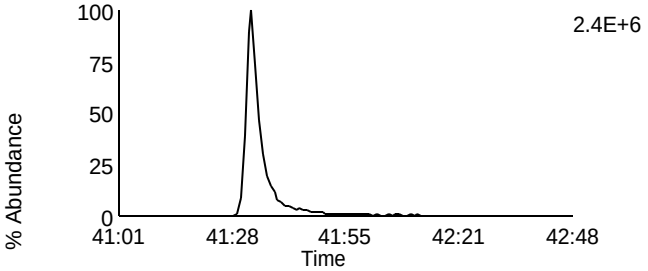
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G5 C11 - 469.7779
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G5 C11 - 469.7779
SAMP 10265141015 - SMT WI



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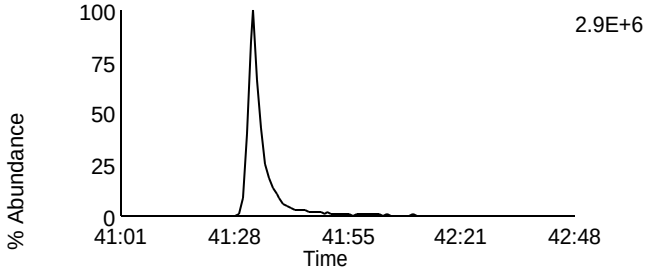
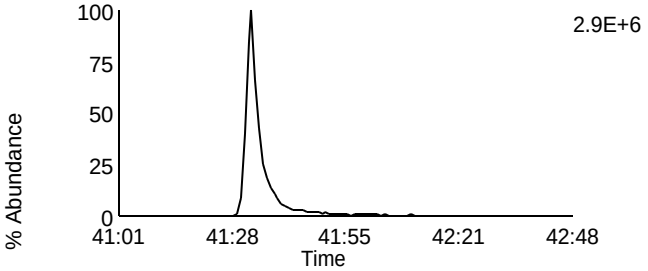
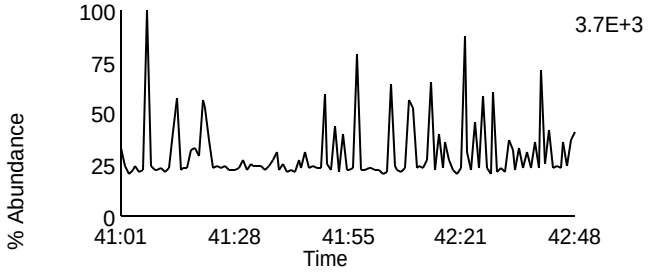
SAMP 10265141015 - SMT WI



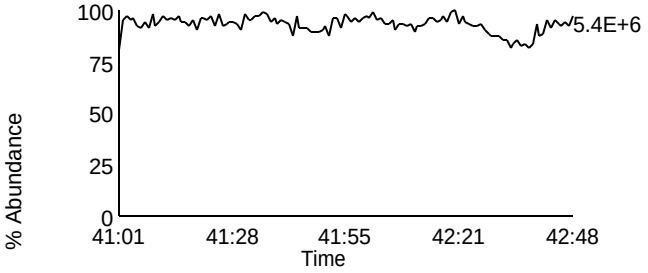
Data File: F140512A_14 G5 C12 - 471.7749
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G5 C13 - 513.6775
SAMP 10265141015 - SMT WI



Data File: F140512A_14 G5 C2 - 430.9728
SAMP 10265141015 - SMT WI

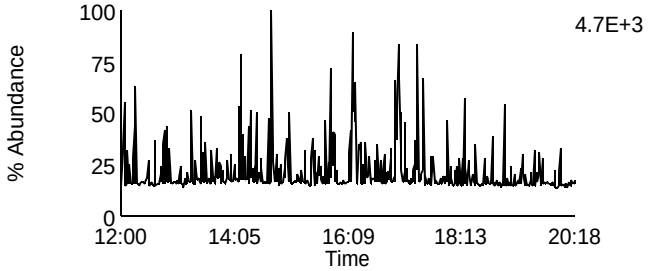


Homologue Group: Tetras

Data File Name: F140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141016 - SMT WI

Lab Sample ID: 10265141016
Client Sample ID: MAK124O
Instrument: 10MSHR05 (F)

Data File: F140512A_15 G1 C1 - 303.9016
SAMP 10265141016 - SMT WI



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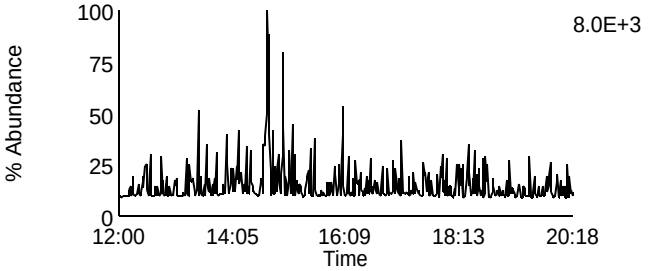
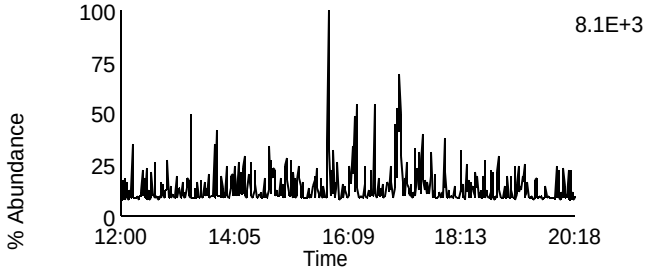
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G1 C2 - 305.8987
SAMP 10265141016 - SMT WI



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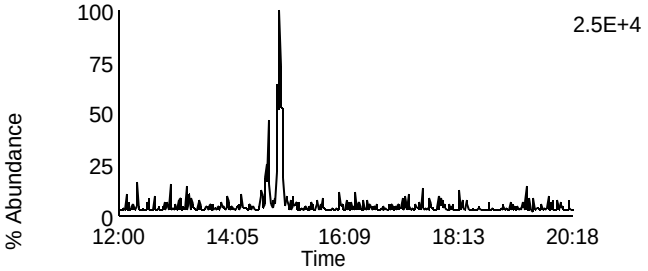
SAMP 10265141016 - SMT WI



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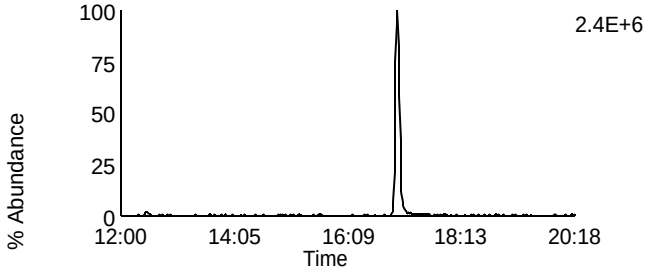
SAMP 10265141016 - SMT WI



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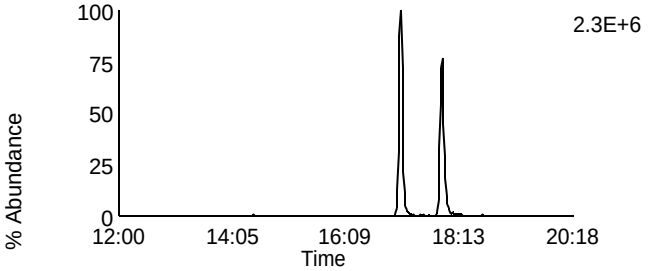
SAMP 10265141016 - SMT WI



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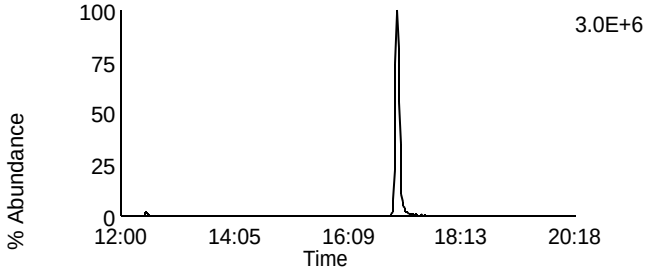
SAMP 10265141016 - SMT WI



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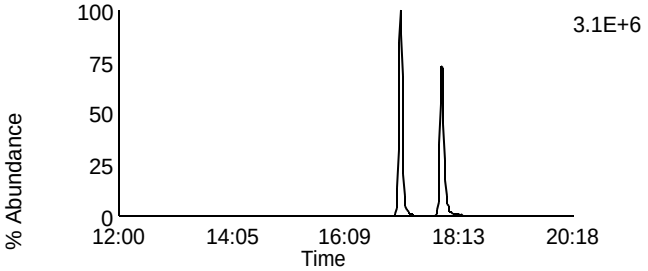
SAMP 10265141016 - SMT WI



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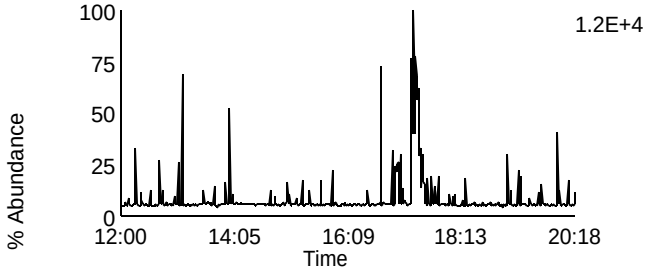
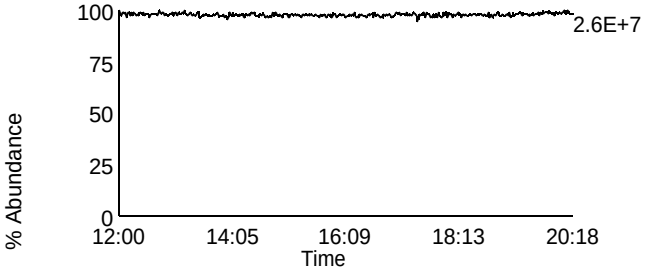
SAMP 10265141016 - SMT WI



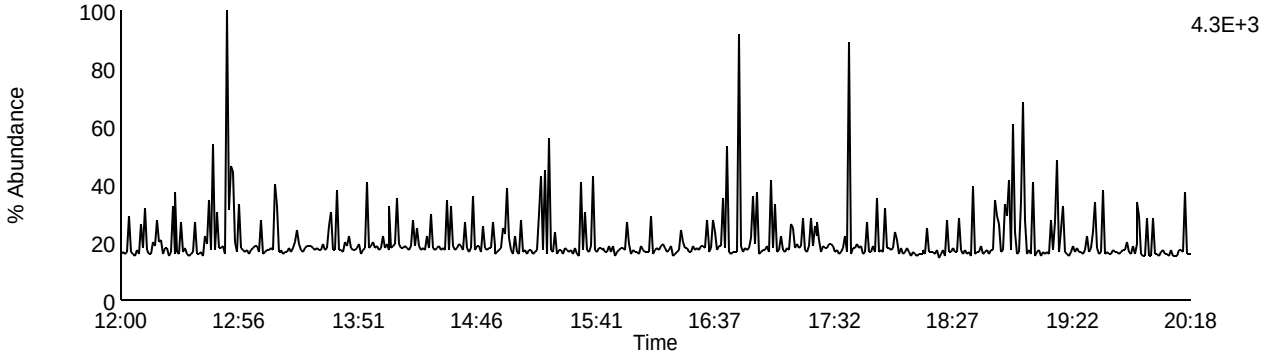
Data File: F140512A_15 G1 C5 - 318.9792
SAMP 10265141016 - SMT WI



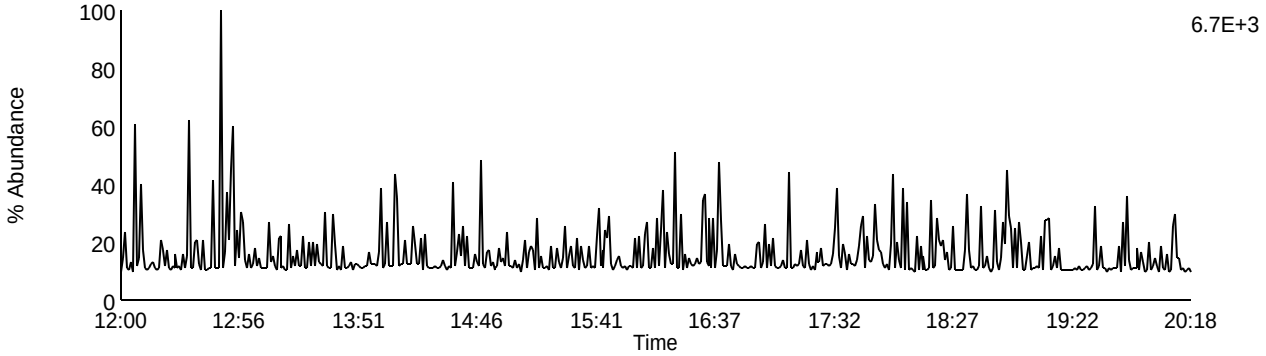
Homologue Group: Penta & Cleanup

Data File Name: F140512A_15	Lab Sample ID: 10265141016
Date Acquired: 5/12/2014	Client Sample ID: MAK124O
Sample Description: SAMP 10265141016 - SMT WI	Instrument: 10MSHR05 (F)

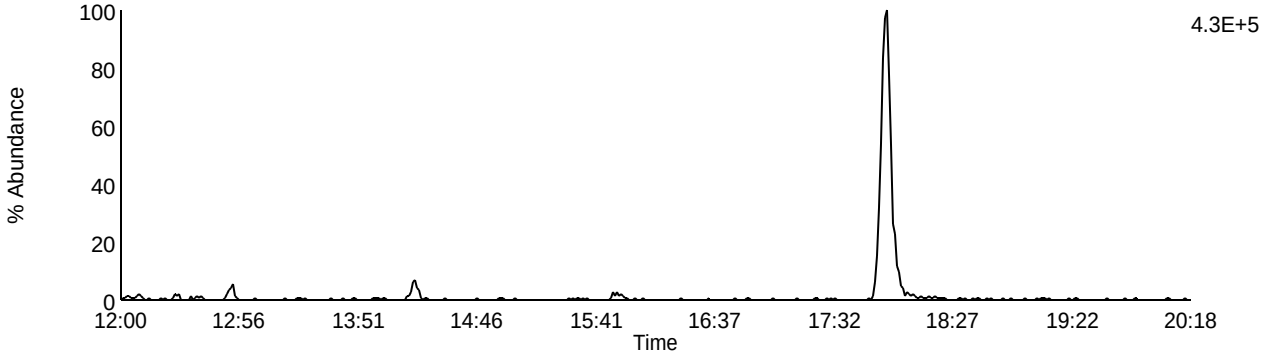
Data File: F140512A_15 G1 C12 - 339.8597
SAMP 10265141016 - SMT WI



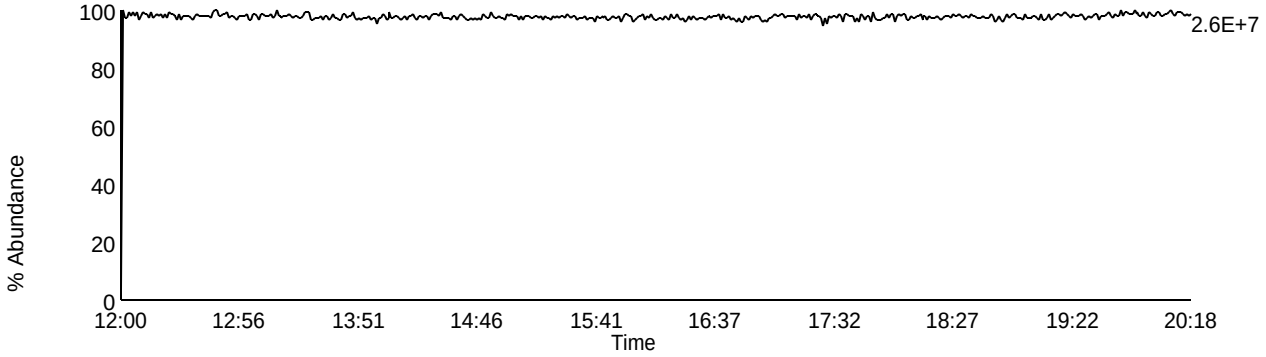
Data File: F140512A_15 G1 C13 - 341.8567
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G1 C9 - 327.8847
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G1 C5 - 318.9792
SAMP 10265141016 - SMT WI

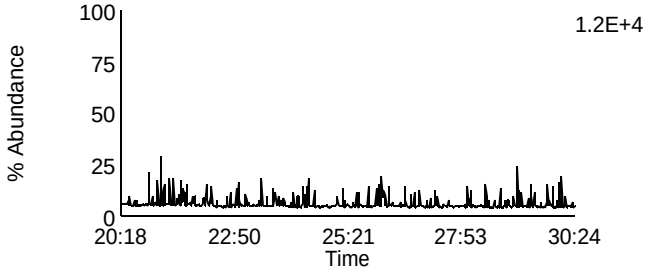


Homologue Group: Pentas

Data File Name: F140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141016 - SMT WI

Lab Sample ID: 10265141016
Client Sample ID: MAK124O
Instrument: 10MSHR05 (F)

Data File: F140512A_15 G2 C1 - 339.8597
SAMP 10265141016 - SMT WI



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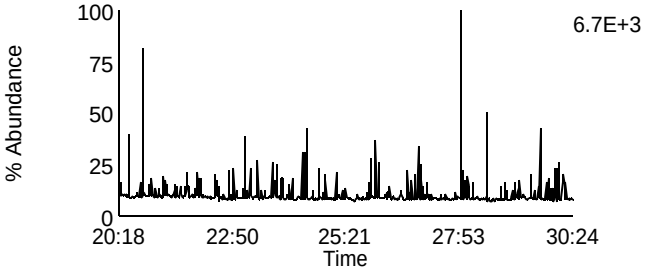
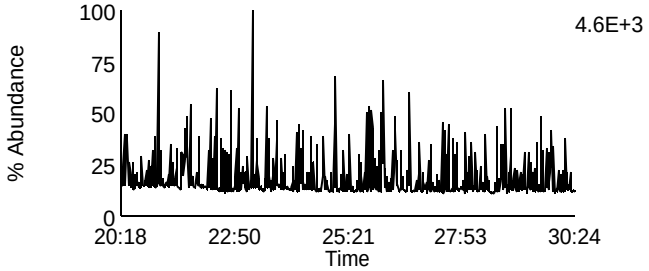
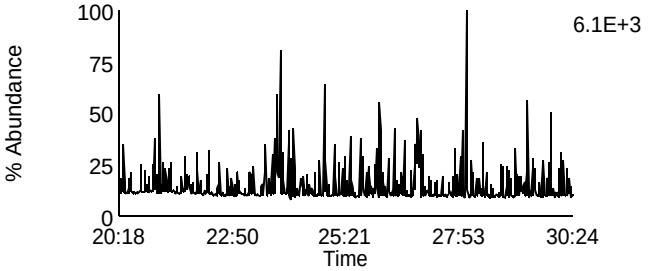
SAMP 10265141016 - SMT WI



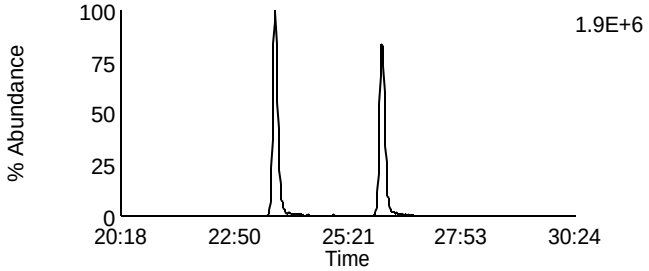
Data File: F140512A_15 G2 C2 - 341.8567
SAMP 10265141016 - SMT WI



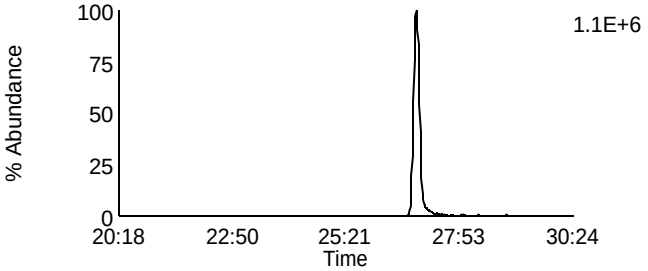
Data File: F140512A_15 G2 C8 - 355.8546
SAMP 10265141016 - SMT WI



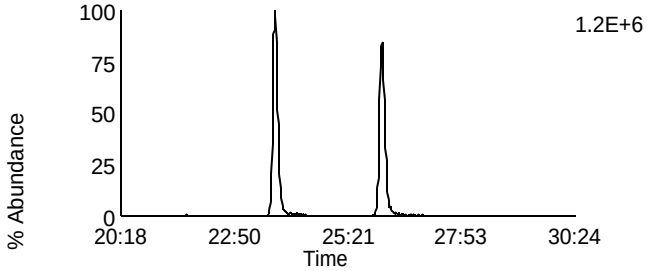
Data File: F140512A_15 G2 C3 - 351.8999
SAMP 10265141016 - SMT WI



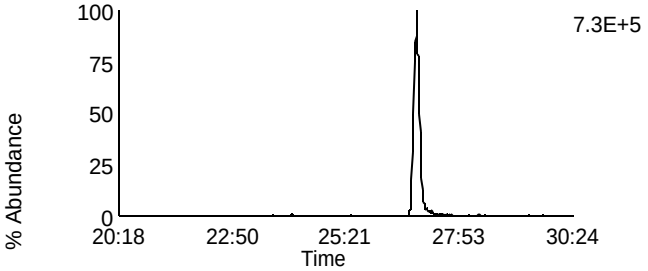
Data File: F140512A_15 G2 C10 - 367.8948
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G2 C5 - 353.8969
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G2 C11 - 369.8918
SAMP 10265141016 - SMT WI



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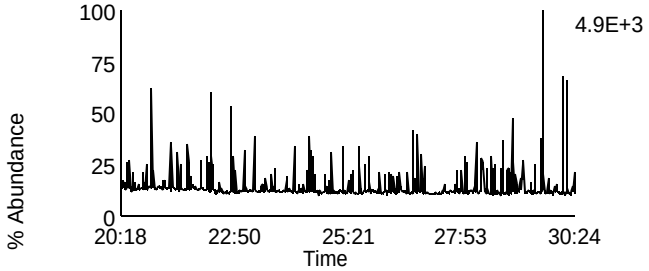
SAMP 10265141016 - SMT WI



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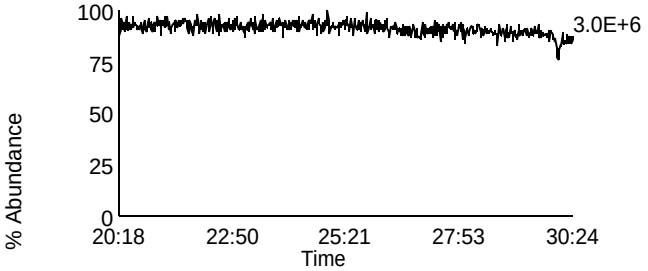
SAMP 10265141016 - SMT WI

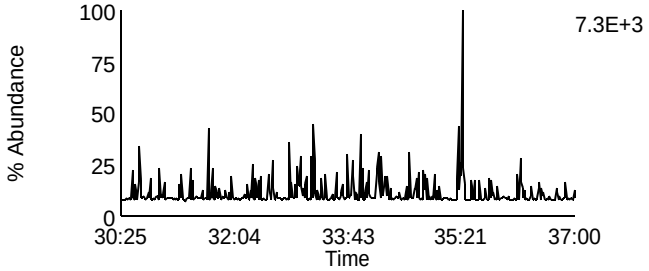


Homologue Group: Hexas

Data File Name: F140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141016 - SMT WI

Lab Sample ID: 10265141016
Client Sample ID: MAK124O
Instrument: 10MSHR05 (F)

Data File: F140512A_15 G3 C1 - 373.8207
SAMP 10265141016 - SMT WI



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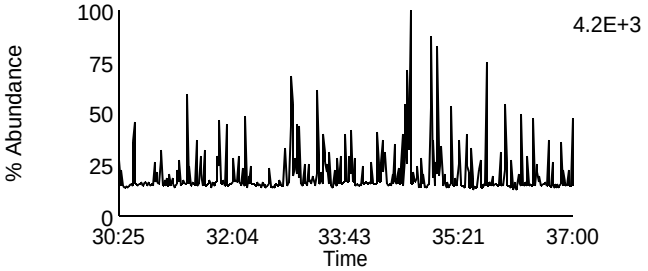
SAMP 10265141016 - SMT WI



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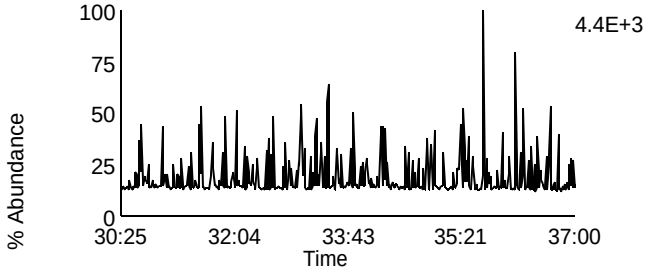
SAMP 10265141016 - SMT WI



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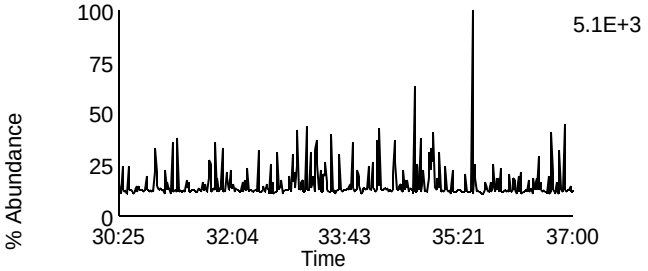
SAMP 10265141016 - SMT WI



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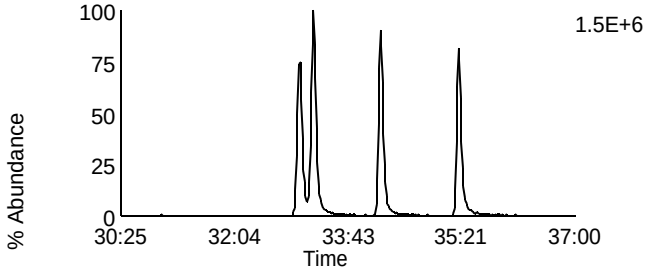
SAMP 10265141016 - SMT WI



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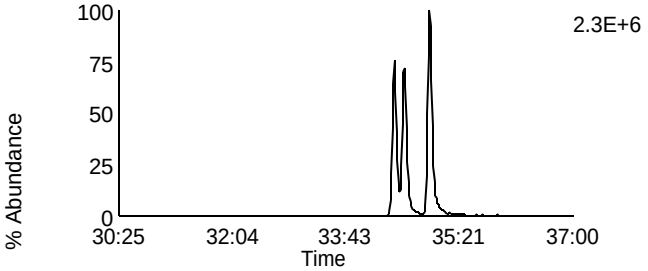
SAMP 10265141016 - SMT WI



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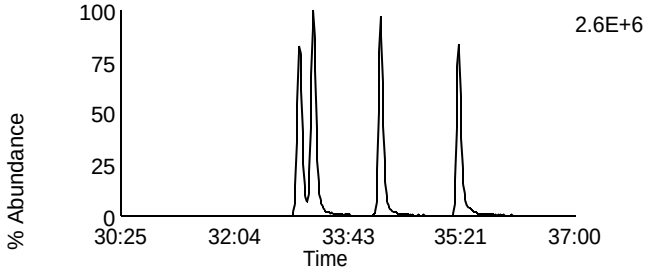
SAMP 10265141016 - SMT WI



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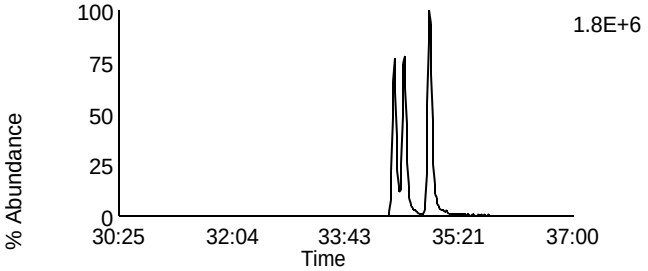
SAMP 10265141016 - SMT WI



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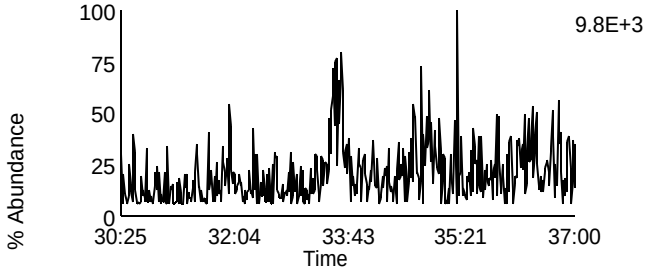
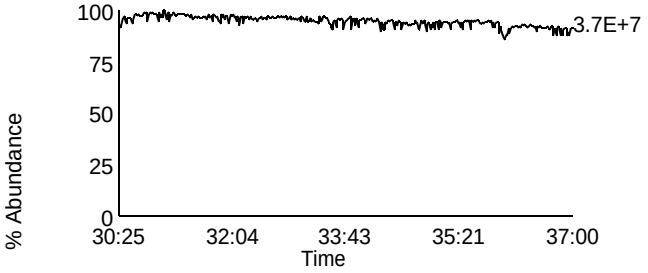
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G3 C3 - 380.976
SAMP 10265141016 - SMT WI

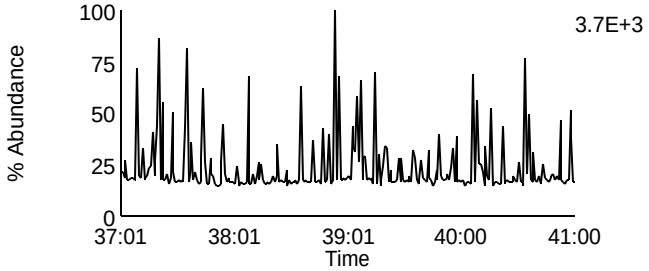


Homologue Group: Heptas

Data File Name: F140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141016 - SMT WI

Lab Sample ID: 10265141016
Client Sample ID: MAK124O
Instrument: 10MSHR05 (F)

Data File: F140512A_15 G4 C3 - 407.7818
SAMP 10265141016 - SMT WI



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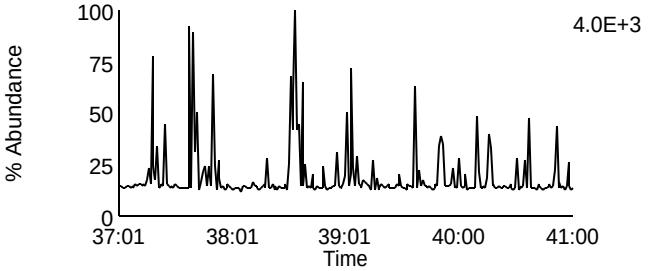
SAMP 10265141016 - SMT WI



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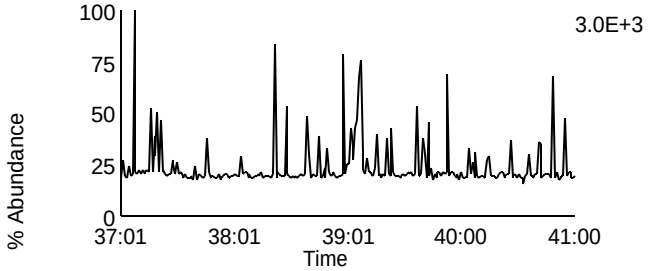
SAMP 10265141016 - SMT WI



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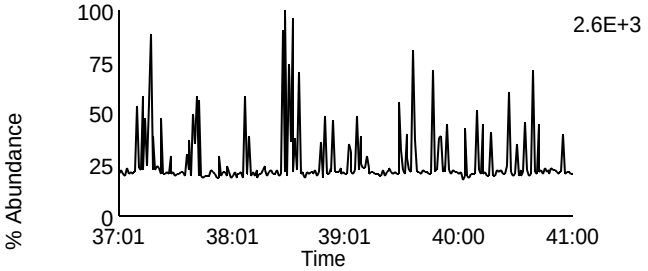
SAMP 10265141016 - SMT WI



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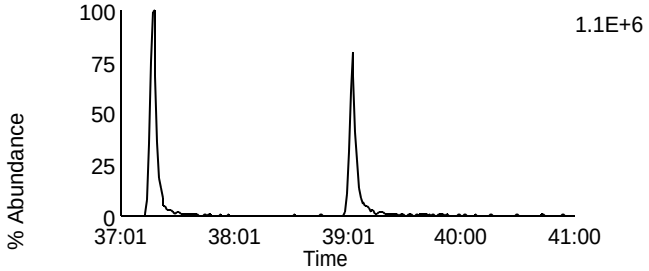
SAMP 10265141016 - SMT WI



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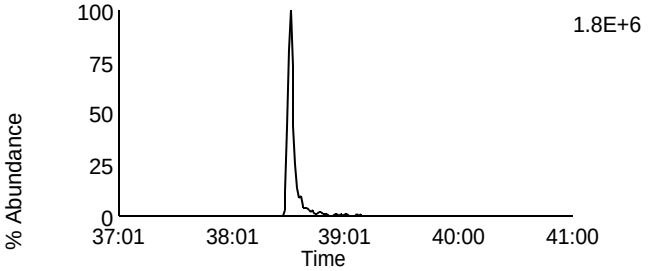
SAMP 10265141016 - SMT WI



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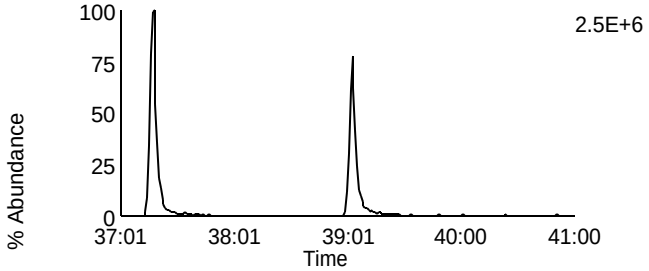
SAMP 10265141016 - SMT WI



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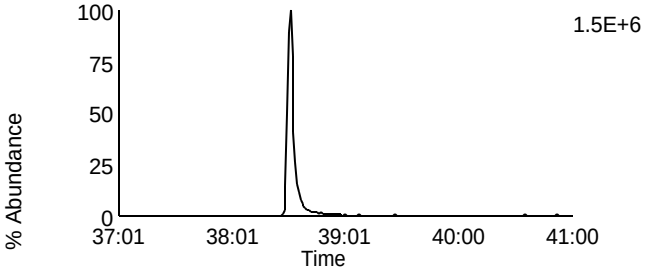

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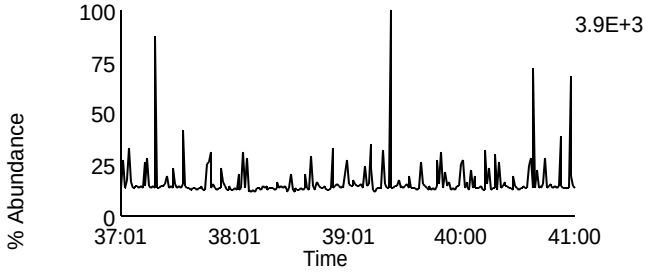
SAMP 10265141016 - SMT WI



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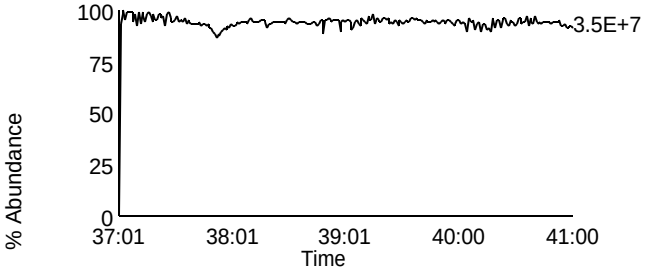
SAMP 10265141016 - SMT WI

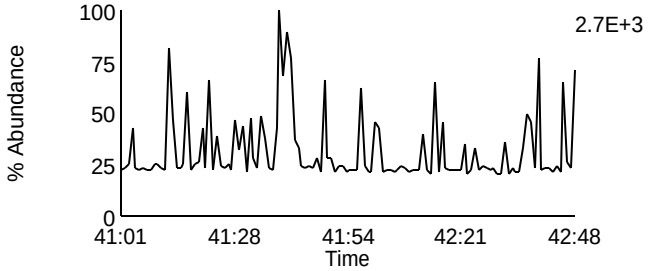


Homologue Group: Octas

Data File Name: F140512A_15
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141016 - SMT WI

Lab Sample ID: 10265141016
Client Sample ID: MAK124O
Instrument: 10MSHR05 (F)

Data File: F140512A_15 G5 C4 - 441.7428
SAMP 10265141016 - SMT WI



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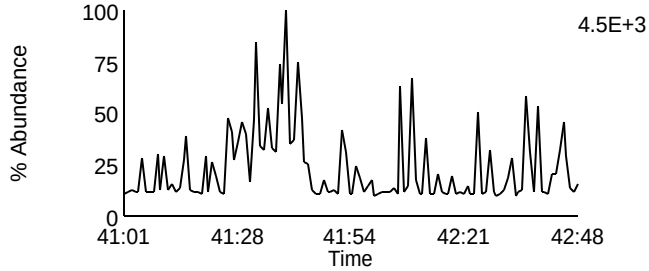
SAMP 10265141016 - SMT WI



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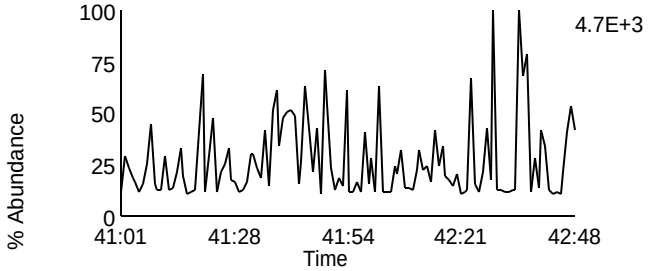

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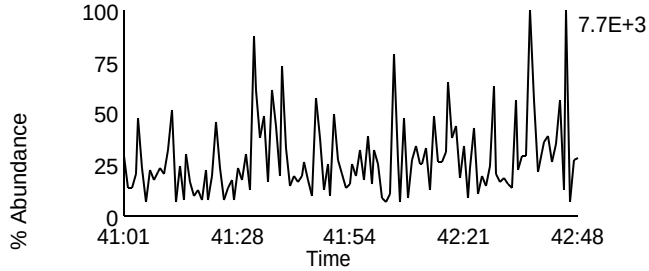
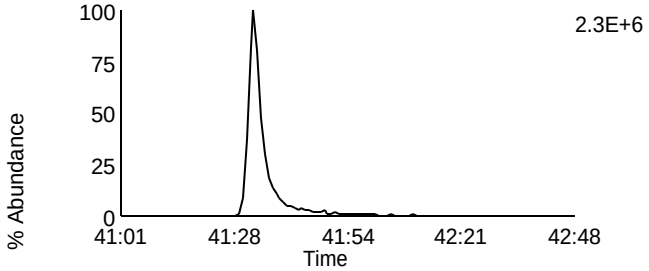
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G5 C11 - 469.7779
SAMP 10265141016 - SMT WI



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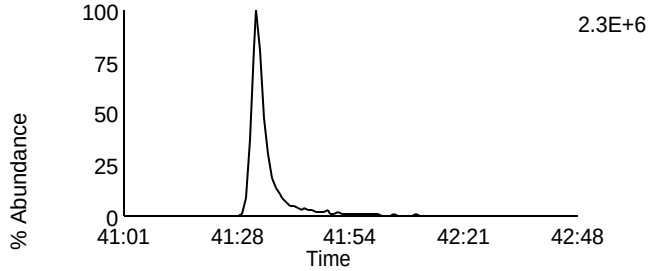
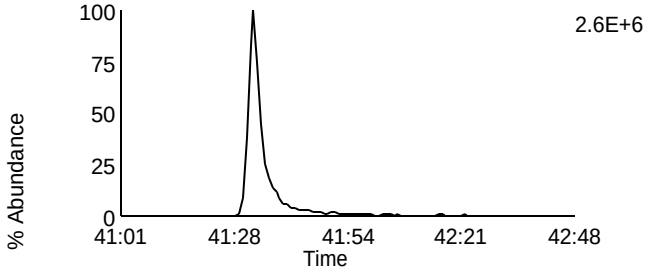
SAMP 10265141016 - SMT WI



Data File: F140512A_15 G5 C12 - 471.7749
SAMP 10265141016 - SMT WI



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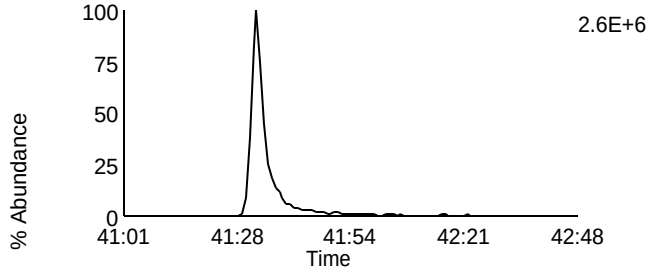
SAMP 10265141016 - SMT WI



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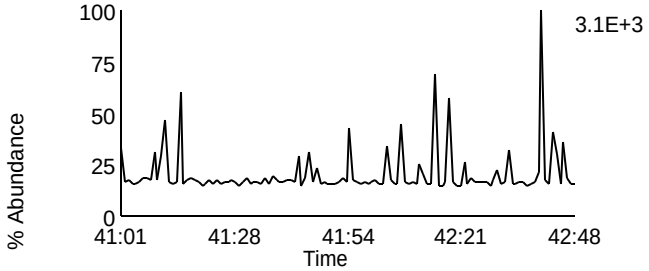
SAMP 10265141016 - SMT WI



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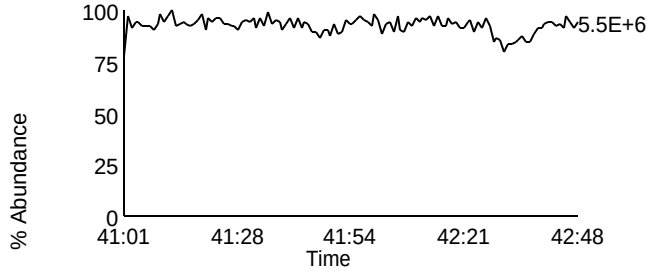
SAMP 10265141016 - SMT WI

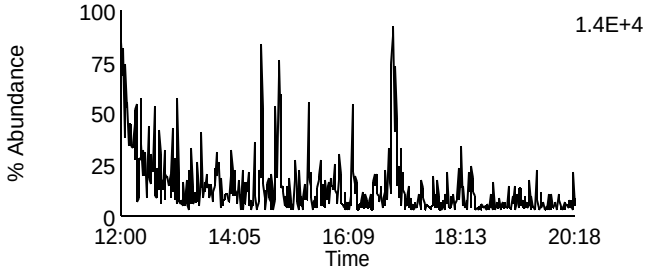


Homologue Group: Tetras

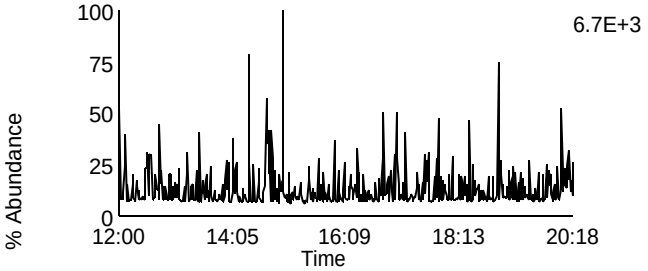
Data File Name: F140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141017 - SMT WI

Lab Sample ID: 10265141017
Client Sample ID: MAK130L
Instrument: 10MSHR05 (F)

Data File: F140512A_16 G1 C1 - 303.9016
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C7 - 319.8965
SAMP 10265141017 - SMT WI



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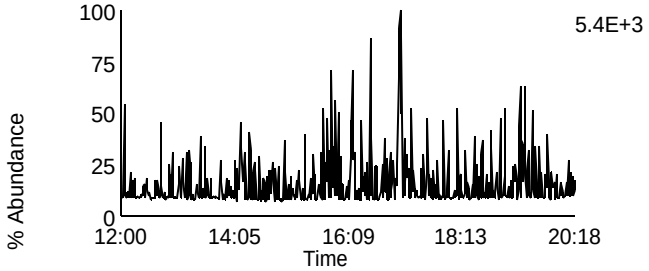
SAMP 10265141017 - SMT WI



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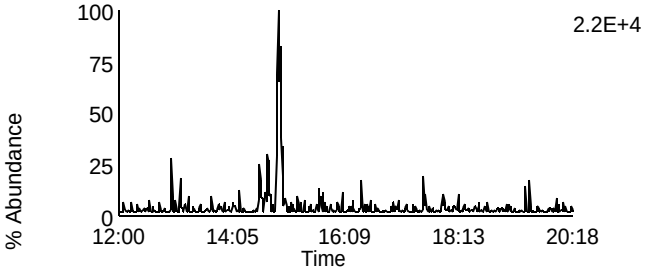
SAMP 10265141017 - SMT WI



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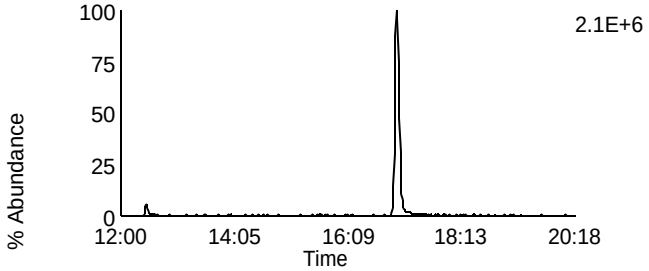
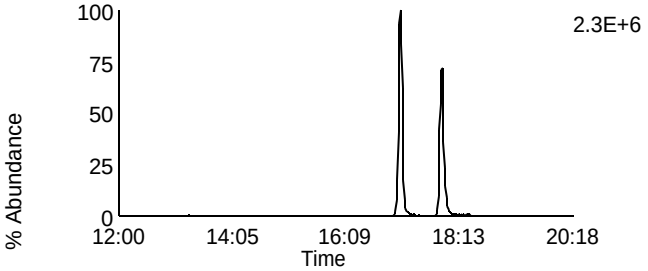
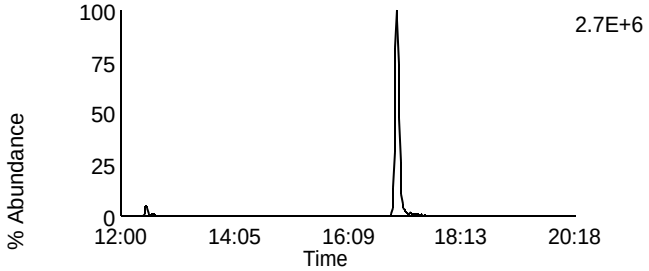
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C10 - 331.9367
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C4 - 317.9389
SAMP 10265141017 - SMT WI



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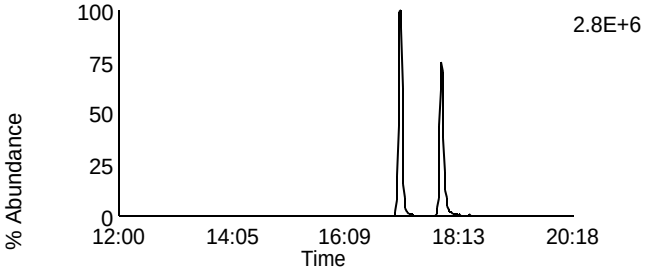
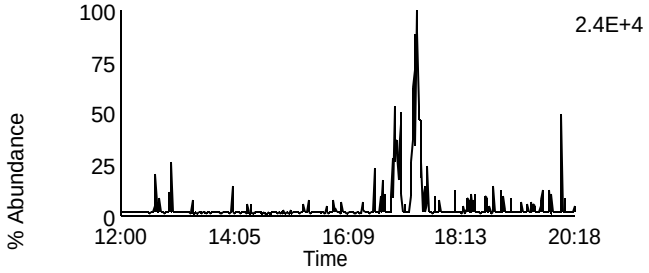
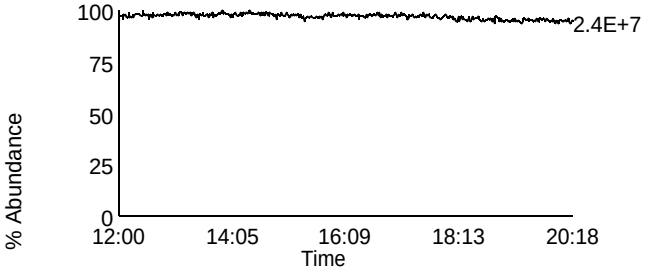
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C14 - 375.8364
SAMP 10265141017 - SMT WI



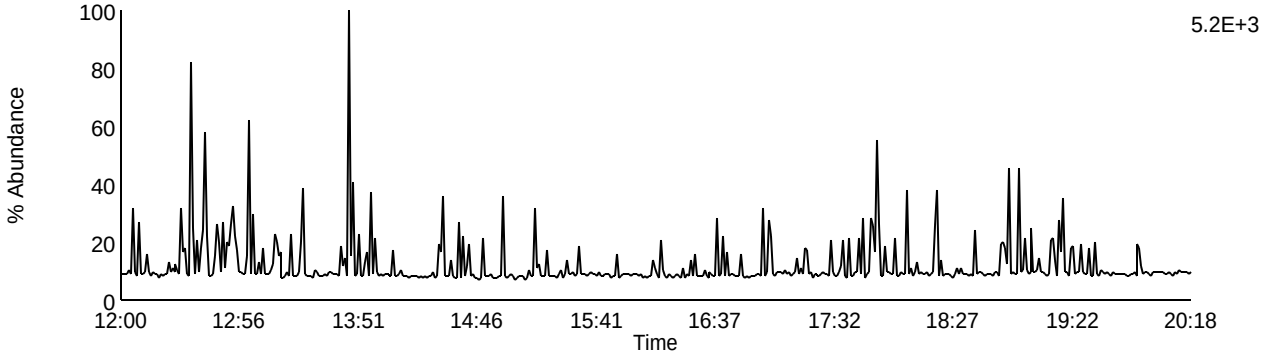
Data File: F140512A_16 G1 C5 - 318.9792
SAMP 10265141017 - SMT WI



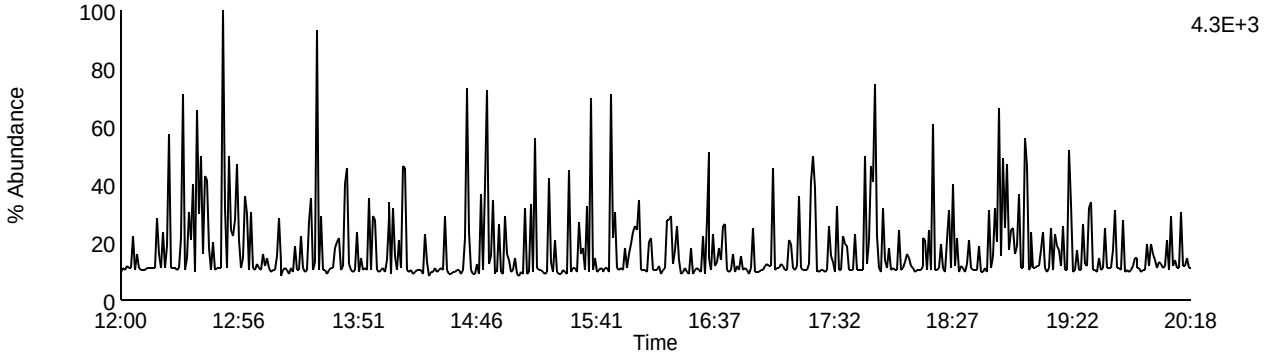
Homologue Group: Penta & Cleanup

Data File Name: F140512A_16	Lab Sample ID: 10265141017
Date Acquired: 5/12/2014	Client Sample ID: MAK130L
Sample Description: SAMP 10265141017 - SMT WI	Instrument: 10MSHR05 (F)

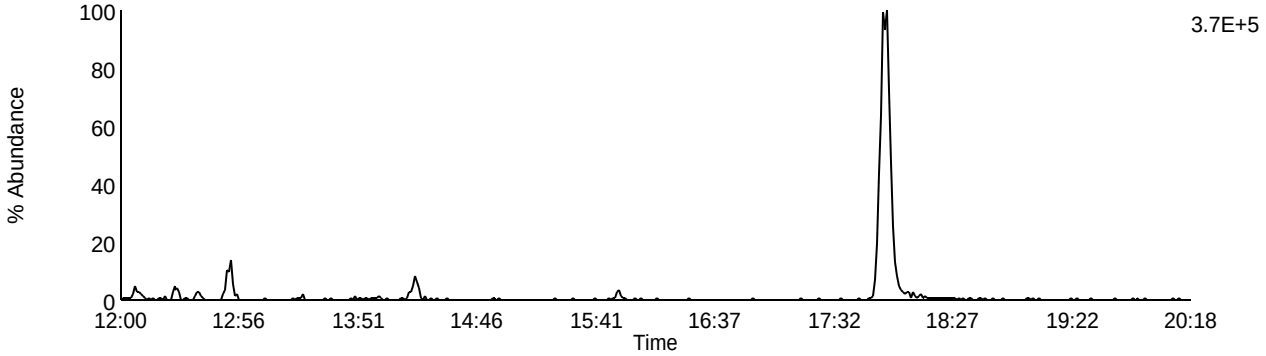
Data File: F140512A_16 G1 C12 - 339.8597
SAMP 10265141017 - SMT WI



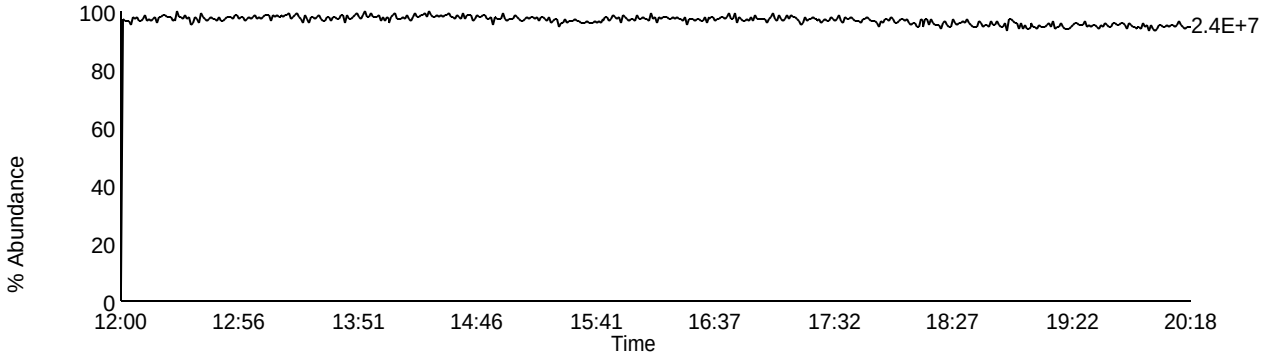
Data File: F140512A_16 G1 C13 - 341.8567
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C9 - 327.8847
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G1 C5 - 318.9792
SAMP 10265141017 - SMT WI

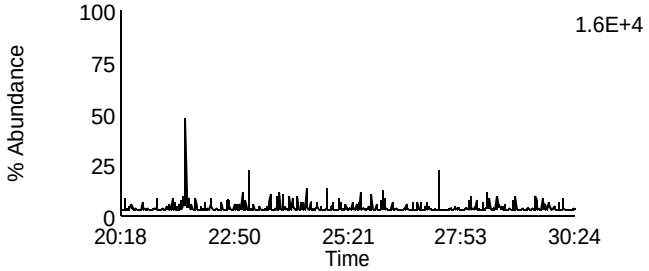


Homologue Group: Pentas

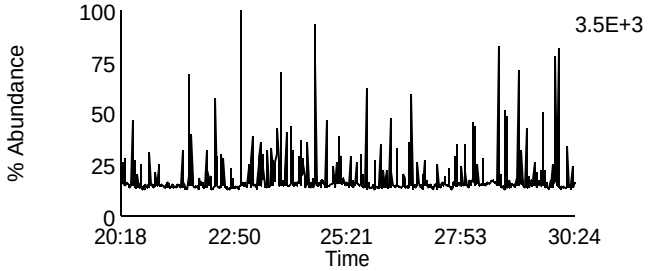
Data File Name: F140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141017 - SMT WI

Lab Sample ID: 10265141017
Client Sample ID: MAK130L
Instrument: 10MSHR05 (F)

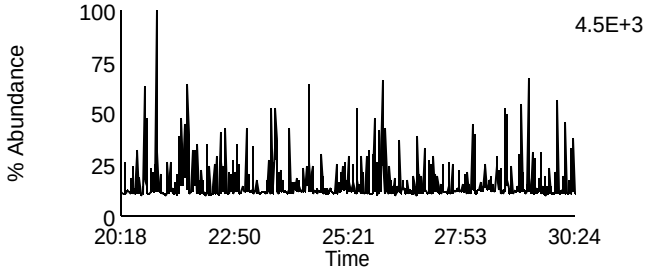
Data File: F140512A_16 G2 C1 - 339.8597
SAMP 10265141017 - SMT WI



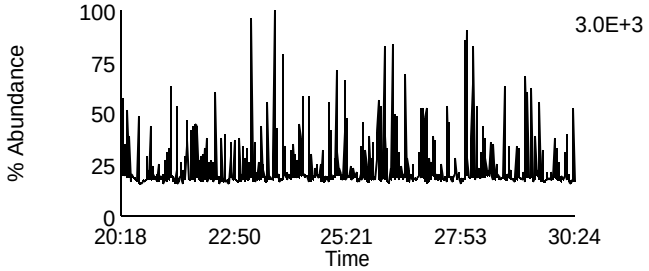
Data File: F140512A_16 G2 C4 - 353.8576
SAMP 10265141017 - SMT WI



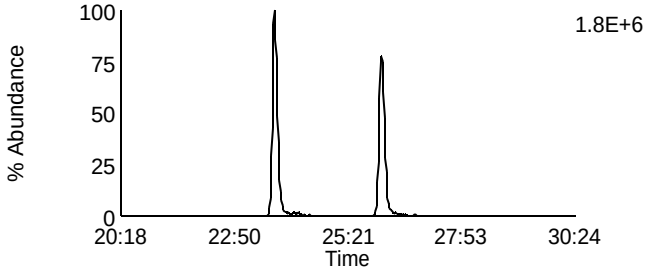
Data File: F140512A_16 G2 C2 - 341.8567
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G2 C8 - 355.8546
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G2 C3 - 351.8999
SAMP 10265141017 - SMT WI



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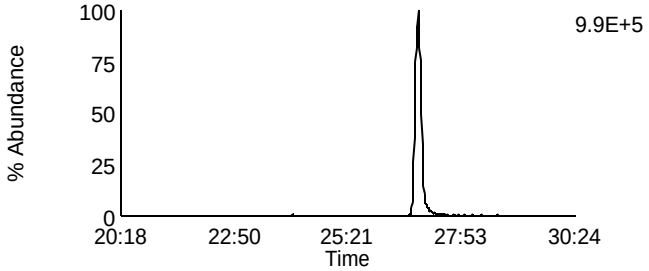
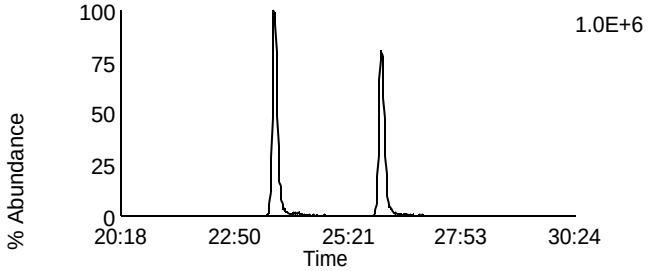
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G2 C5 - 353.8969
SAMP 10265141017 - SMT WI



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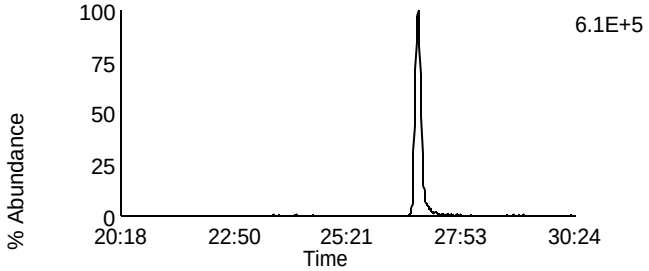
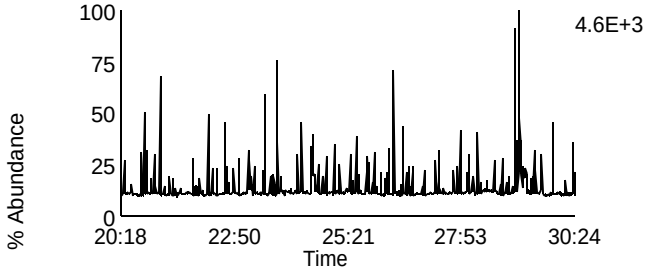
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G2 C12 - 409.7974
SAMP 10265141017 - SMT WI



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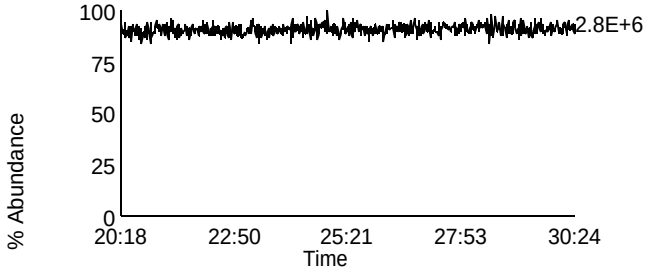
SAMP 10265141017 - SMT WI

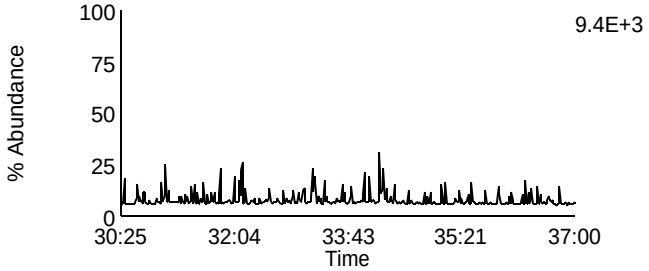


Homologue Group: Hexas

Data File Name: F140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141017 - SMT WI

Lab Sample ID: 10265141017
Client Sample ID: MAK130L
Instrument: 10MSHR05 (F)

Data File: F140512A_16 G3 C1 - 373.8207
SAMP 10265141017 - SMT WI



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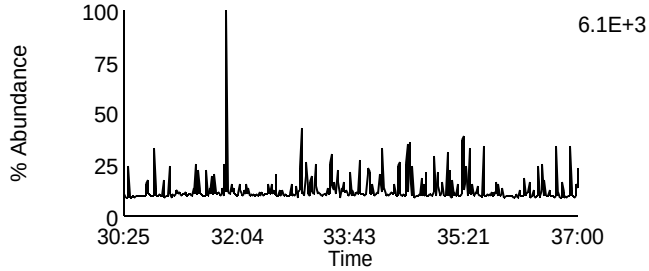
SAMP 10265141017 - SMT WI



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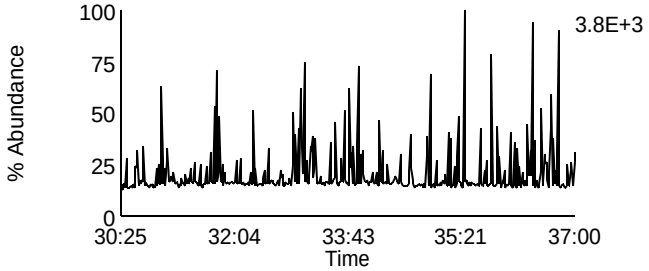
SAMP 10265141017 - SMT WI



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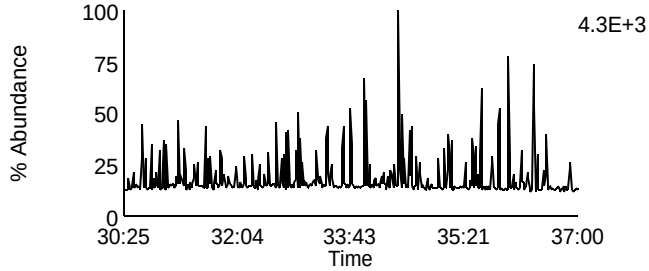
SAMP 10265141017 - SMT WI



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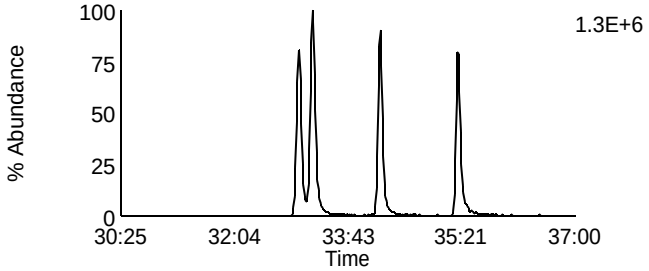
SAMP 10265141017 - SMT WI



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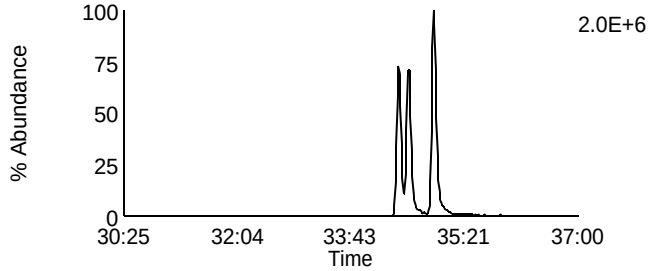
SAMP 10265141017 - SMT WI



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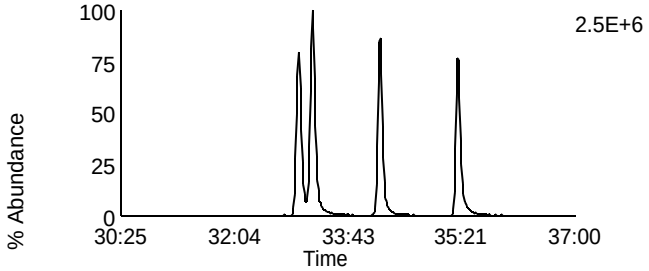
SAMP 10265141017 - SMT WI



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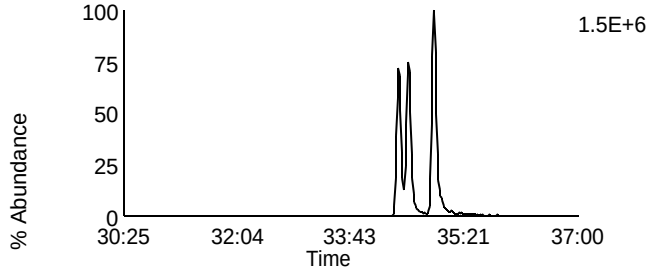

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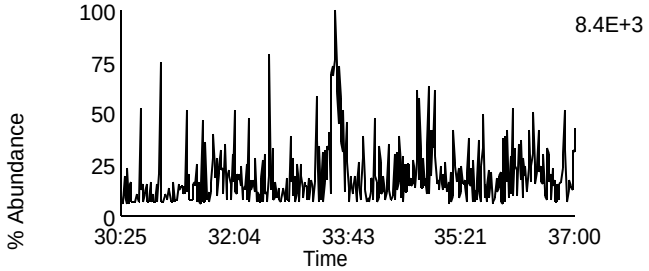
SAMP 10265141017 - SMT WI



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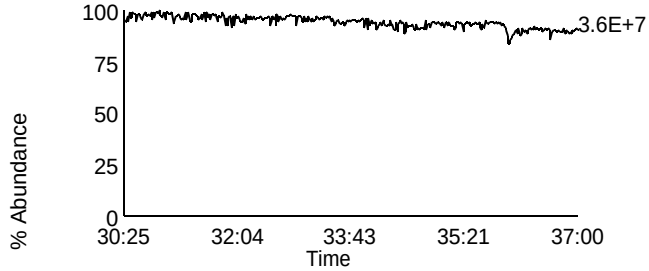
SAMP 10265141017 - SMT WI

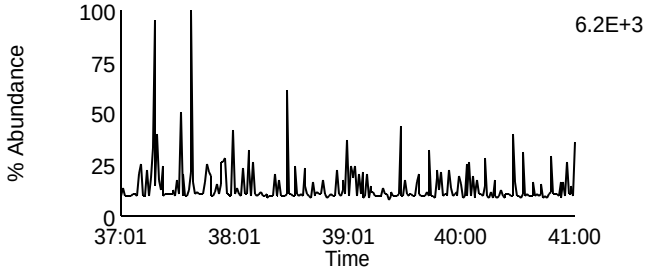


Homologue Group: Heptas

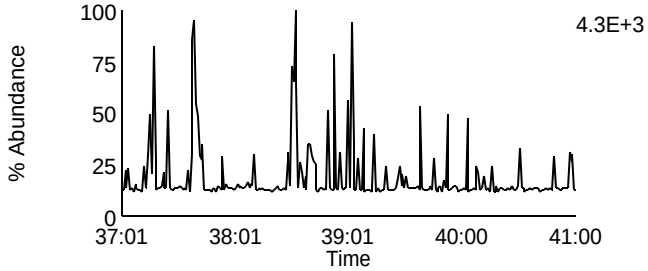
Data File Name: F140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141017 - SMT WI

Lab Sample ID: 10265141017
Client Sample ID: MAK130L
Instrument: 10MSHR05 (F)

Data File: F140512A_16 G4 C3 - 407.7818
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G4 C8 - 423.7767
SAMP 10265141017 - SMT WI



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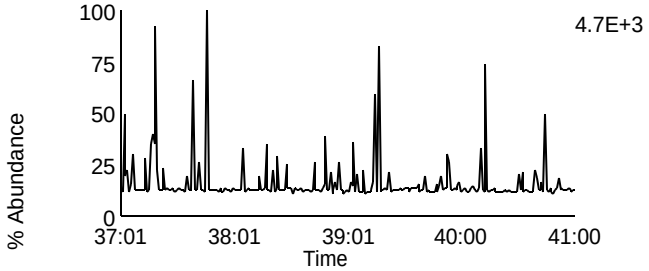
SAMP 10265141017 - SMT WI



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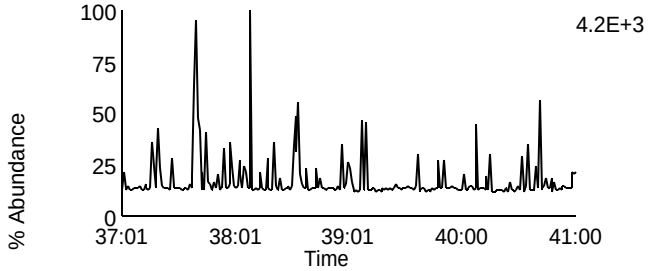
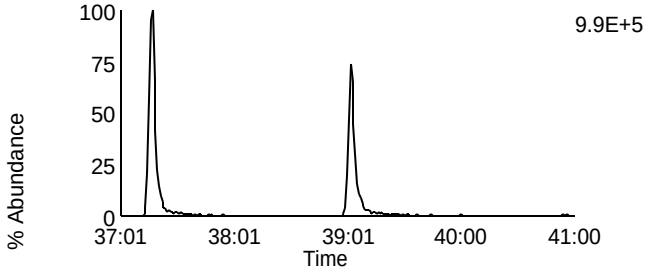
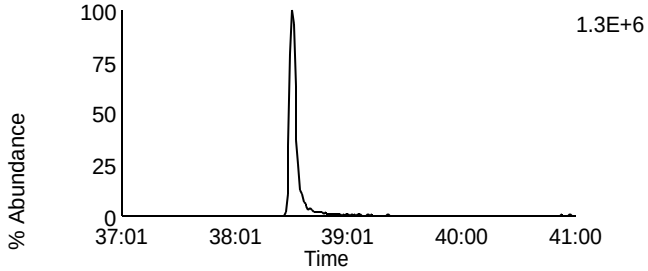
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G4 C6 - 417.825
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G4 C11 - 435.8169
SAMP 10265141017 - SMT WI



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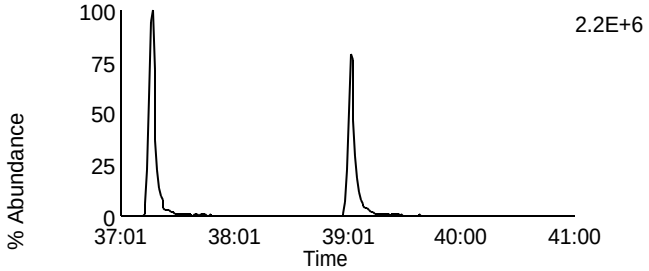
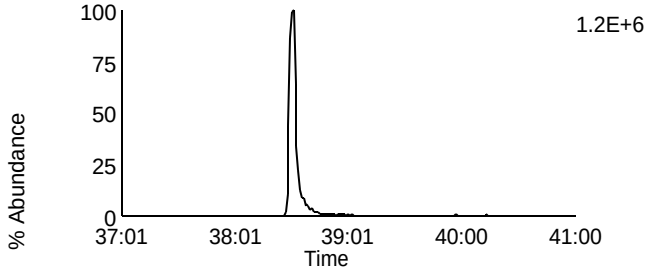
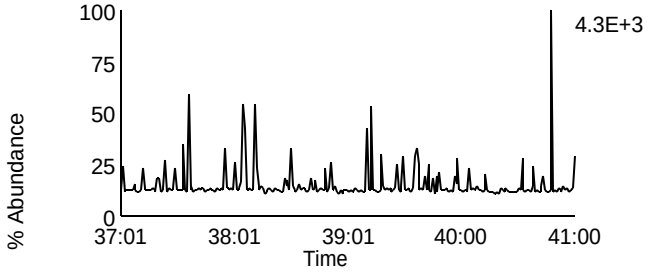
SAMP 10265141017 - SMT WI



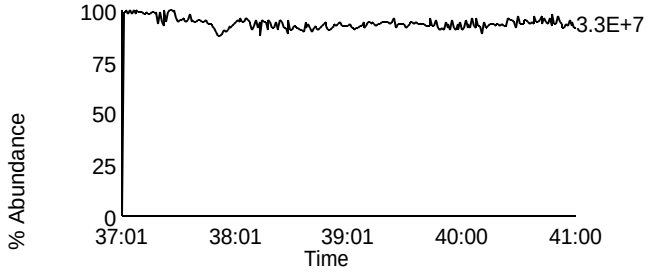
Data File: F140512A_16 G4 C12 - 437.814
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G4 C13 - 479.7165
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G4 C1 - 380.976
SAMP 10265141017 - SMT WI

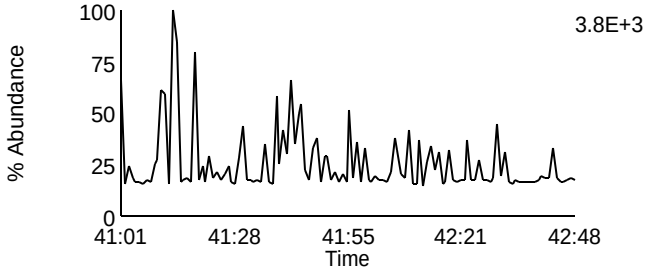


Homologue Group: Octas

Data File Name: F140512A_16
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141017 - SMT WI

Lab Sample ID: 10265141017
Client Sample ID: MAK130L
Instrument: 10MSHR05 (F)

Data File: F140512A_16 G5 C4 - 441.7428
SAMP 10265141017 - SMT WI



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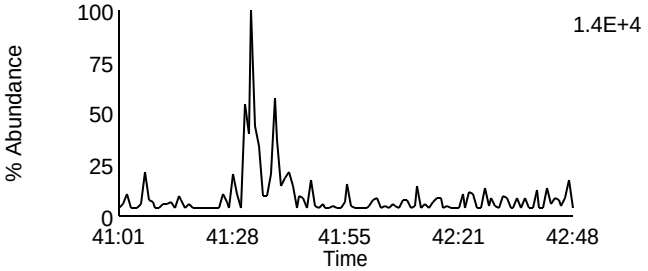
SAMP 10265141017 - SMT WI



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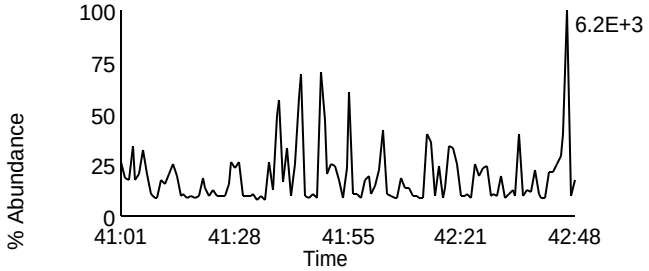
SAMP 10265141017 - SMT WI



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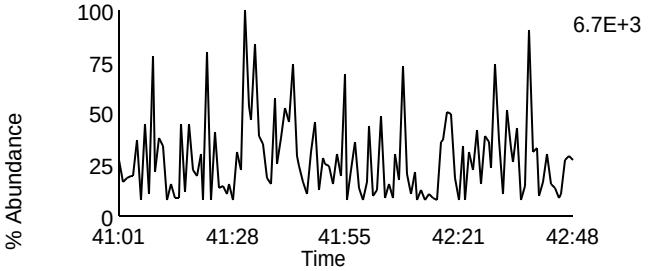
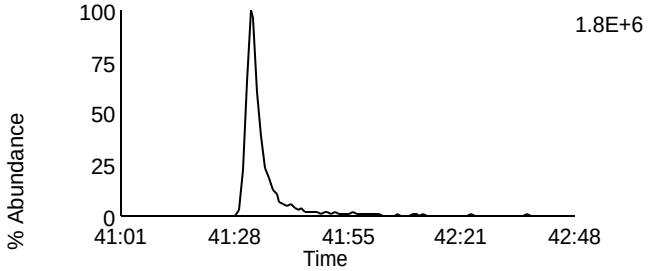
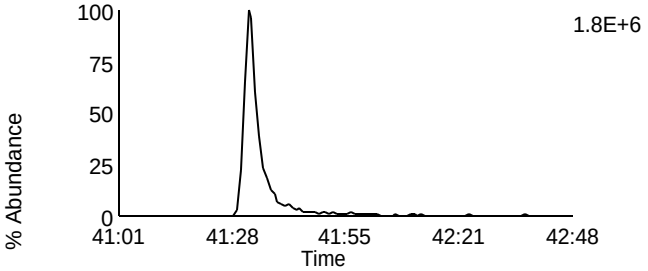
SAMP 10265141017 - SMT WI



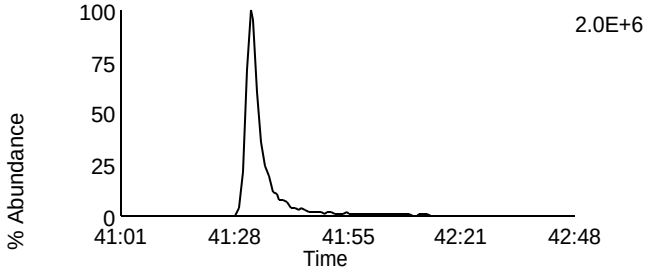
Data File: F140512A_16 G5 C11 - 469.7779
SAMP 10265141017 - SMT WI



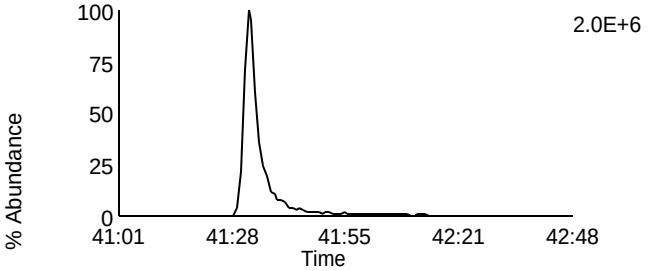
Data File: F140512A_16 G5 C11 - 469.7779
SAMP 10265141017 - SMT WI



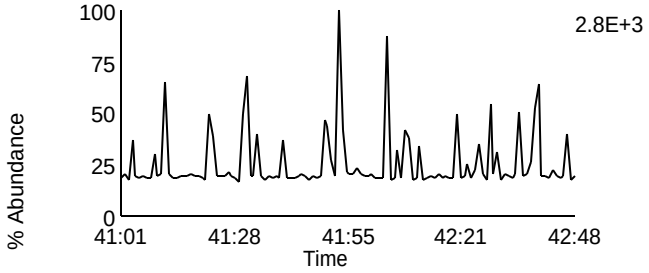
Data File: F140512A_16 G5 C12 - 471.7749
SAMP 10265141017 - SMT WI



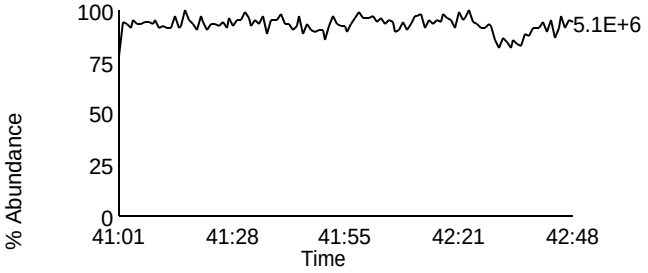
Data File: F140512A_16 G5 C12 - 471.7749
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G5 C13 - 513.6775
SAMP 10265141017 - SMT WI



Data File: F140512A_16 G5 C2 - 430.9728
SAMP 10265141017 - SMT WI

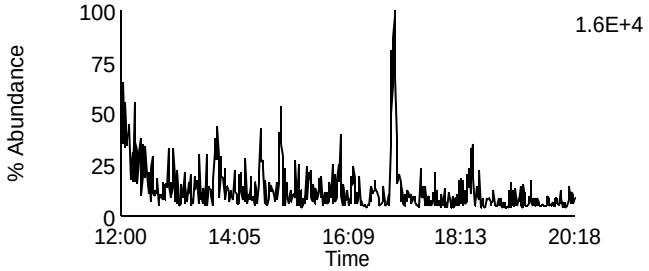


Homologue Group: Tetras

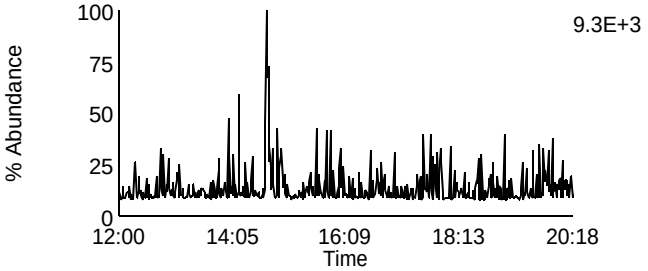
Data File Name: F140512A_17
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141018 - SMT WI

Lab Sample ID: 10265141018
Client Sample ID: MAK132L
Instrument: 10MSHR05 (F)

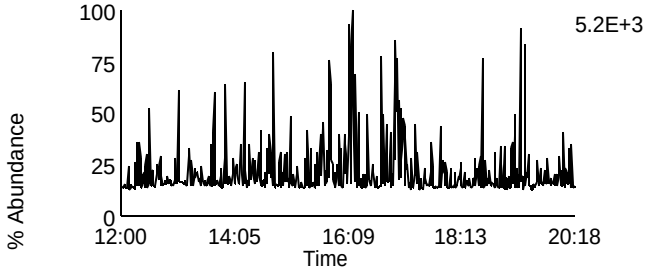
Data File: F140512A_17 G1 C1 - 303.9016
SAMP 10265141018 - SMT WI



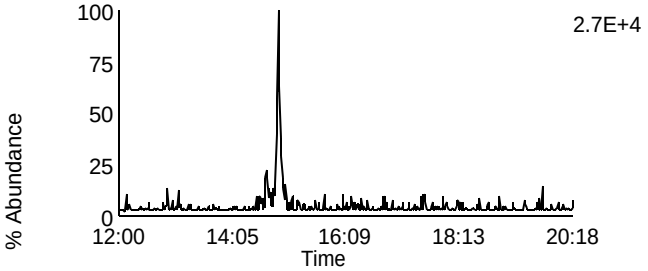
Data File: F140512A_17 G1 C7 - 319.8965
SAMP 10265141018 - SMT WI



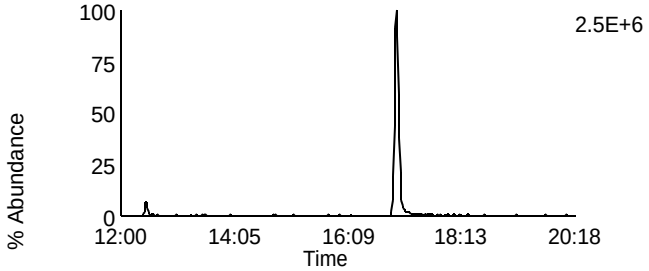
Data File: F140512A_17 G1 C2 - 305.8987
SAMP 10265141018 - SMT WI



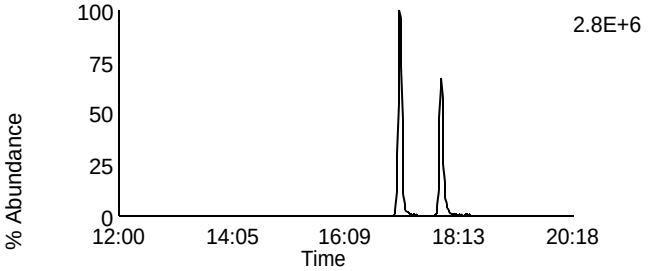
Data File: F140512A_17 G1 C8 - 321.8936
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G1 C3 - 315.9418
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G1 C10 - 331.9367
SAMP 10265141018 - SMT WI



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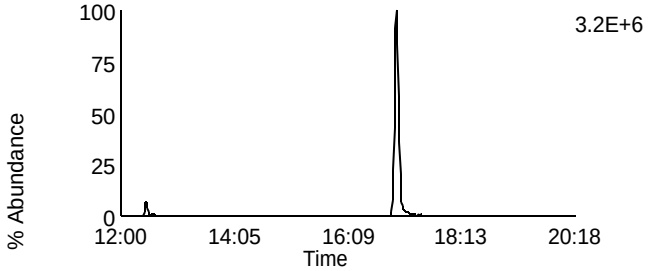
SAMP 10265141018 - SMT WI



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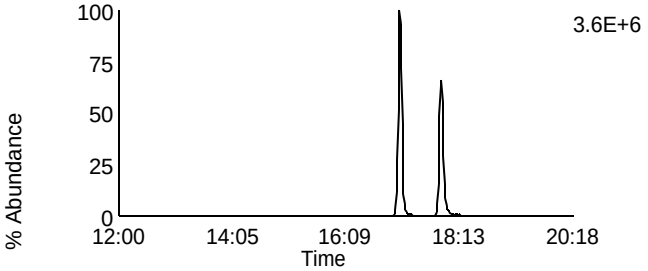
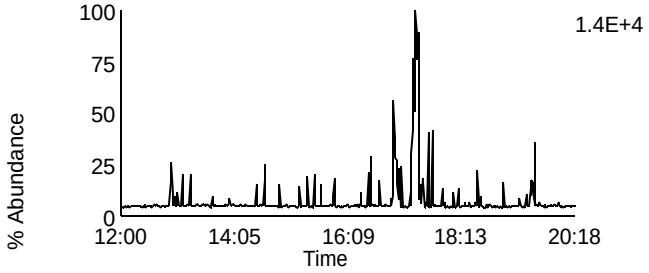
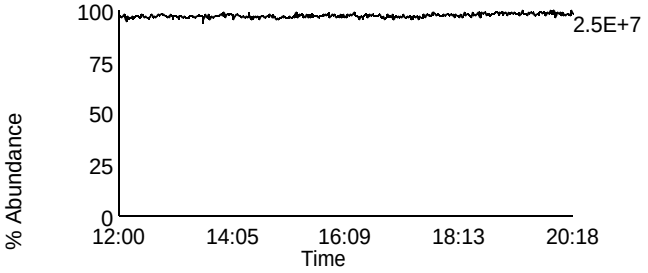
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G1 C14 - 375.8364
SAMP 10265141018 - SMT WI



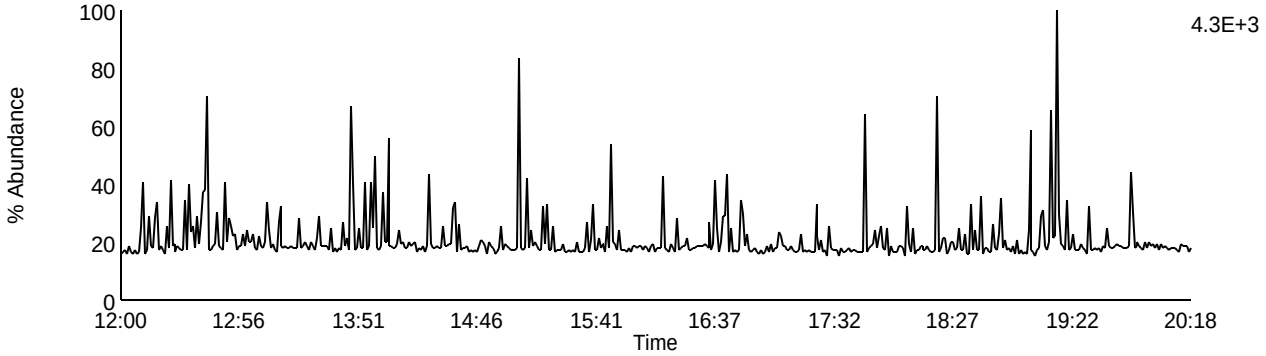
Data File: F140512A_17 G1 C5 - 318.9792
SAMP 10265141018 - SMT WI



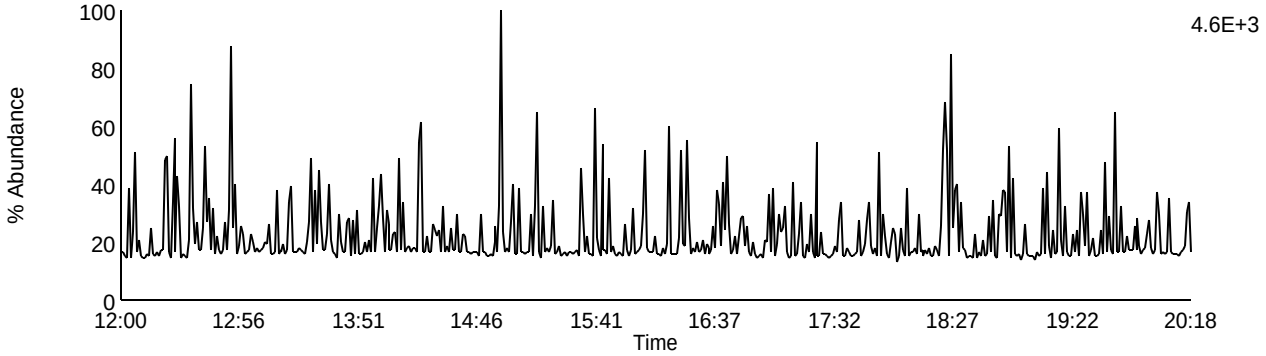
Homologue Group: Penta & Cleanup

Data File Name: F140512A_17	Lab Sample ID: 10265141018
Date Acquired: 5/13/2014	Client Sample ID: MAK132L
Sample Description: SAMP 10265141018 - SMT WI	Instrument: 10MSHR05 (F)

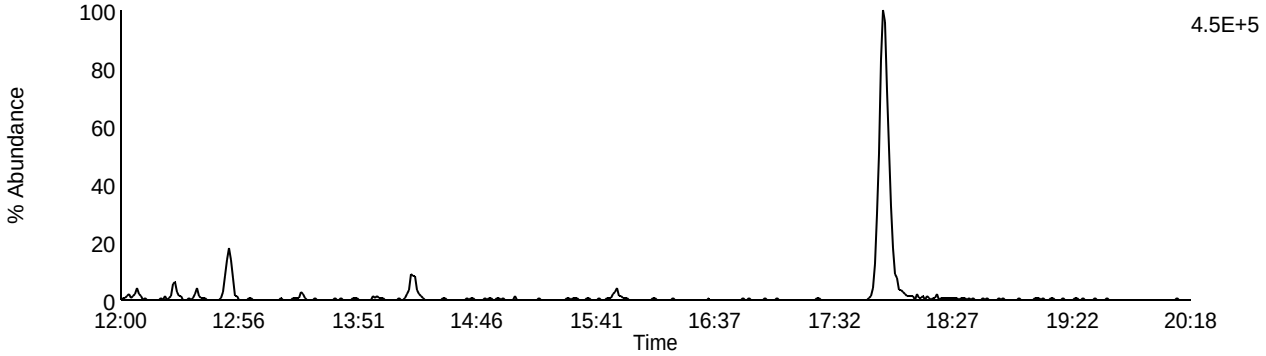
Data File: F140512A_17 G1 C12 - 339.8597
SAMP 10265141018 - SMT WI



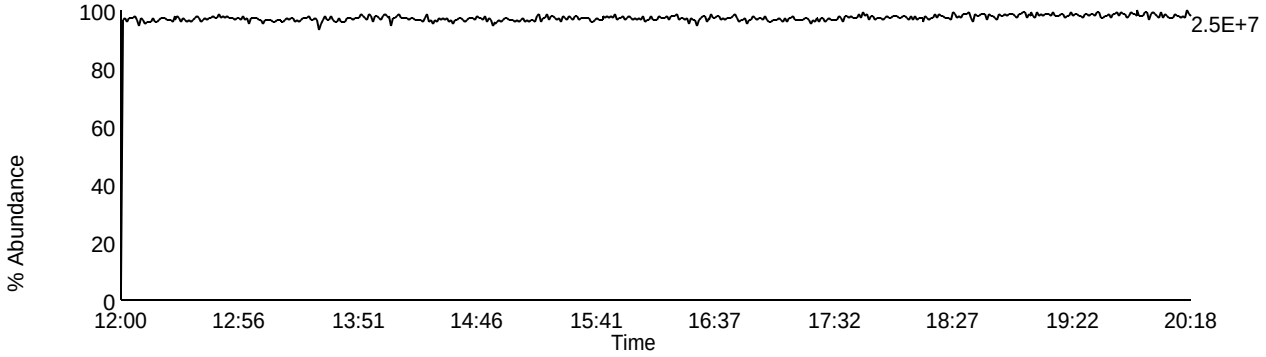
Data File: F140512A_17 G1 C13 - 341.8567
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G1 C9 - 327.8847
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G1 C5 - 318.9792
SAMP 10265141018 - SMT WI

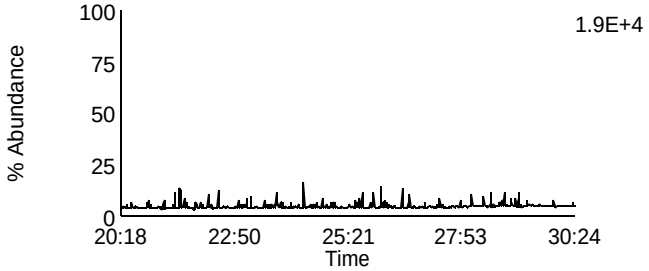


Homologue Group: Pentas

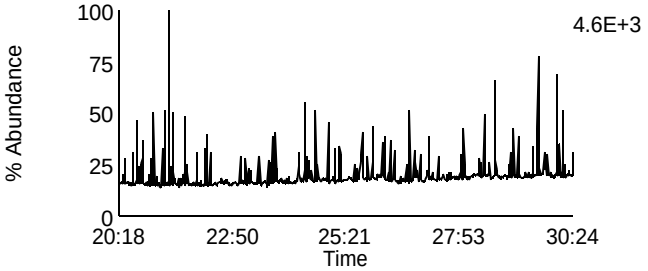
Data File Name: F140512A_17
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141018 - SMT WI

Lab Sample ID: 10265141018
Client Sample ID: MAK132L
Instrument: 10MSHR05 (F)

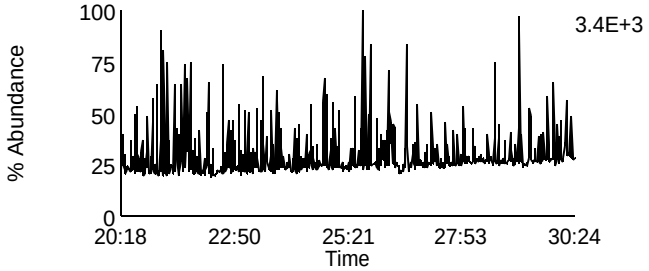
Data File: F140512A_17 G2 C1 - 339.8597
SAMP 10265141018 - SMT WI



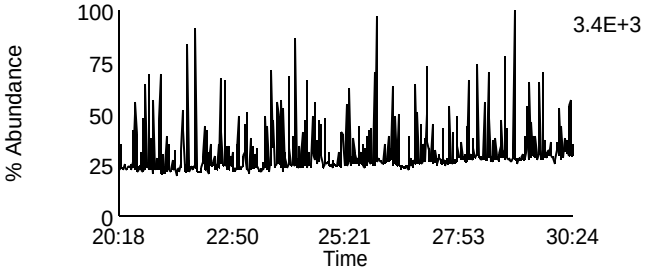
Data File: F140512A_17 G2 C4 - 353.8576
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G2 C2 - 341.8567
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G2 C8 - 355.8546
SAMP 10265141018 - SMT WI



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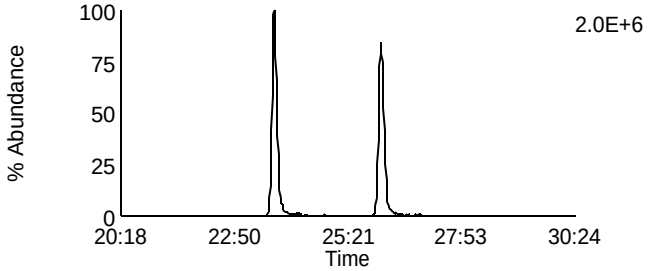
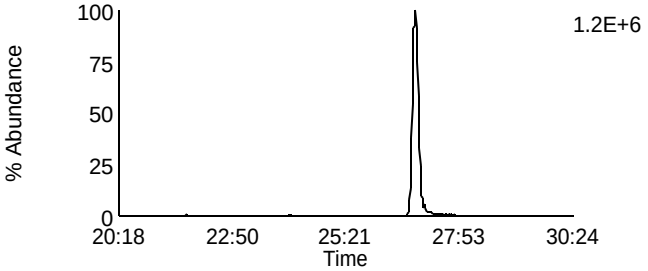
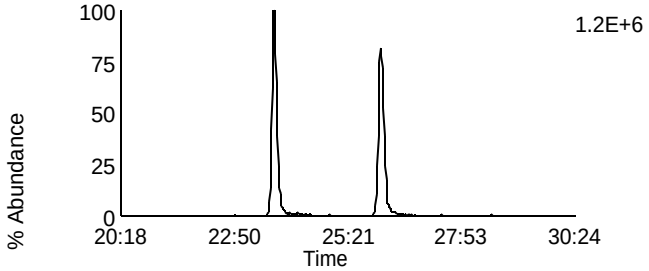
SAMP 10265141018 - SMT WI



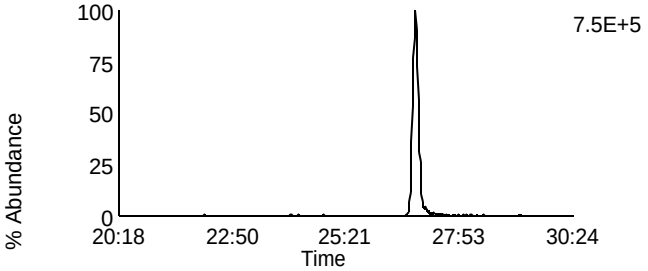
Data File: F140512A_17 G2 C10 - 367.8948
SAMP 10265141018 - SMT WI



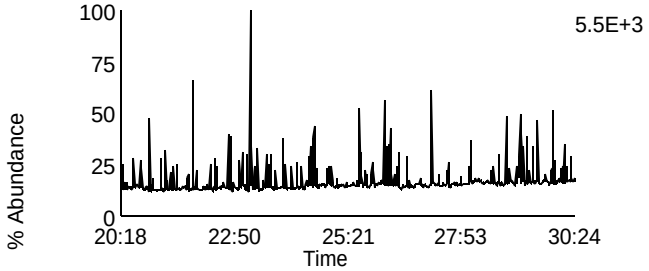
Data File: F140512A_17 G2 C5 - 353.8969
SAMP 10265141018 - SMT WI



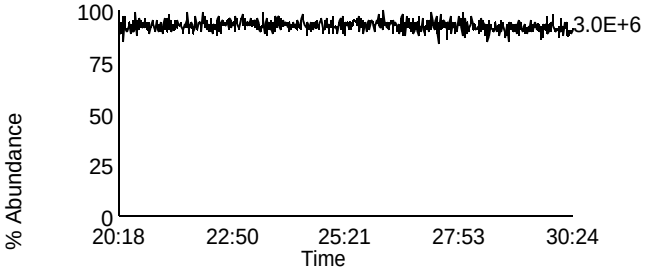
Data File: F140512A_17 G2 C11 - 369.8918
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G2 C12 - 409.7974
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G2 C6 - 354.9792
SAMP 10265141018 - SMT WI

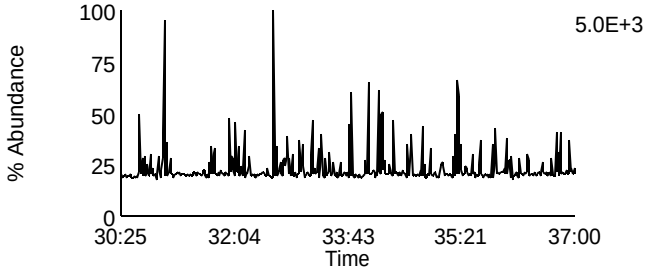


Homologue Group: Hexas

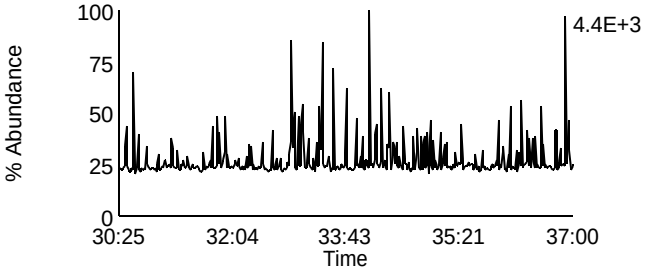
Data File Name: F140512A_17
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141018 - SMT WI

Lab Sample ID: 10265141018
Client Sample ID: MAK132L
Instrument: 10MSHR05 (F)

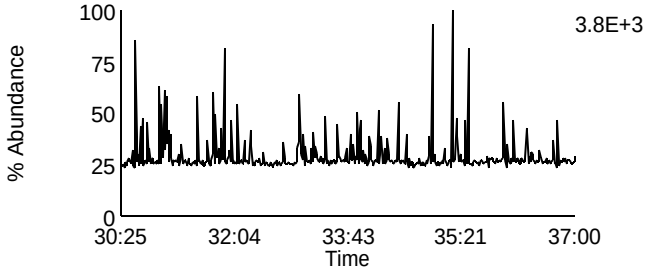
Data File: F140512A_17 G3 C1 - 373.8207
SAMP 10265141018 - SMT WI



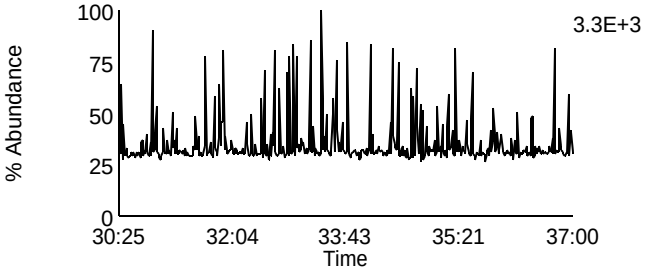
Data File: F140512A_17 G3 C7 - 389.8156
SAMP 10265141018 - SMT WI



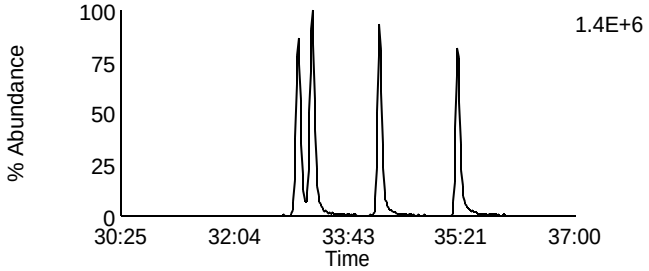
Data File: F140512A_17 G3 C2 - 375.8178
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G3 C8 - 391.8127
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G3 C5 - 383.8639
SAMP 10265141018 - SMT WI



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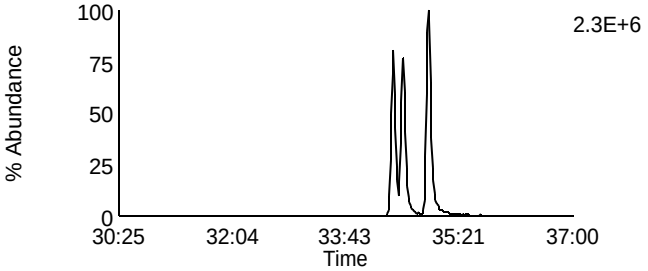
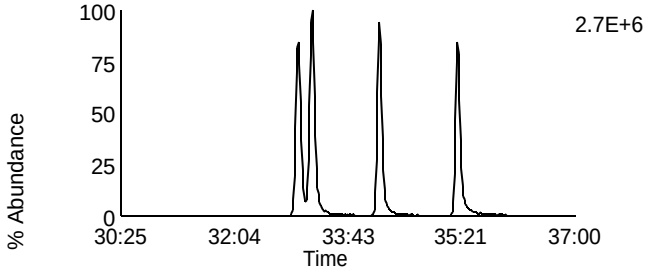
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G3 C6 - 385.861
SAMP 10265141018 - SMT WI



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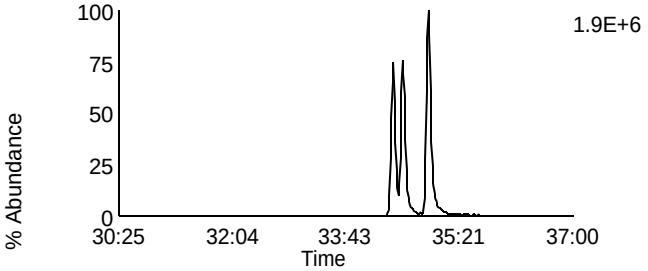
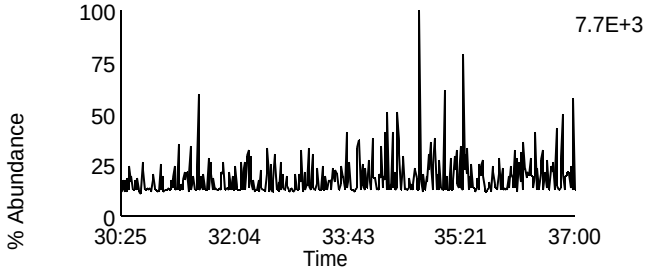
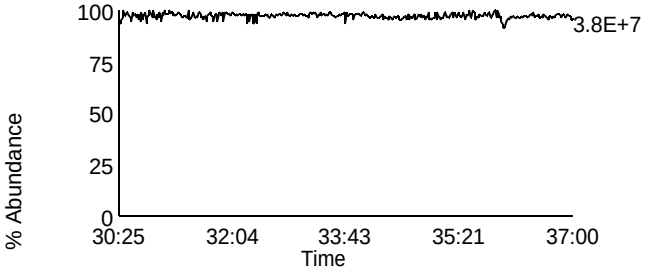
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G3 C11 - 445.7555
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G3 C3 - 380.976
SAMP 10265141018 - SMT WI

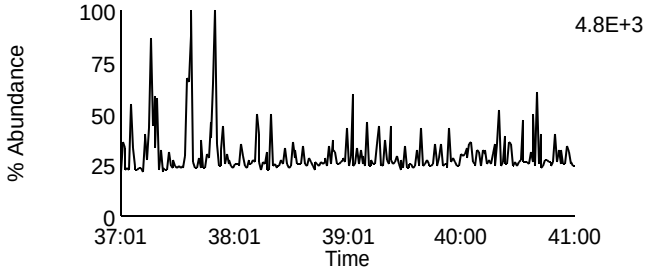


Homologue Group: Heptas

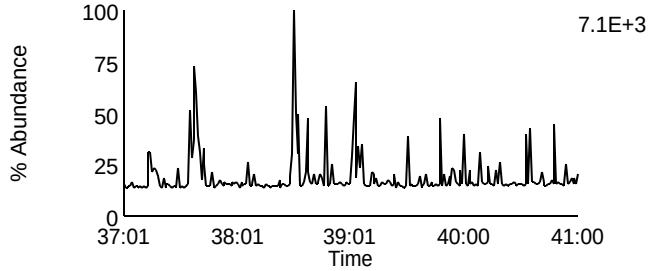
Data File Name: F140512A_17
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141018 - SMT WI

Lab Sample ID: 10265141018
Client Sample ID: MAK132L
Instrument: 10MSHR05 (F)

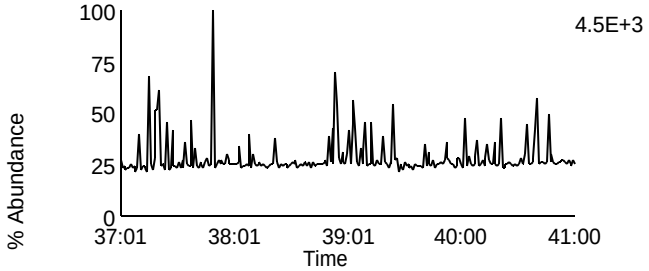
Data File: F140512A_17 G4 C3 - 407.7818
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G4 C8 - 423.7767
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G4 C4 - 409.7788
SAMP 10265141018 - SMT WI



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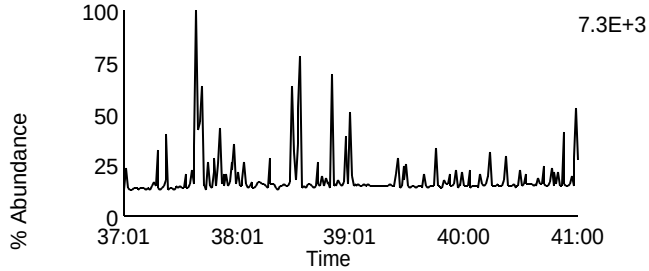
SAMP 10265141018 - SMT WI



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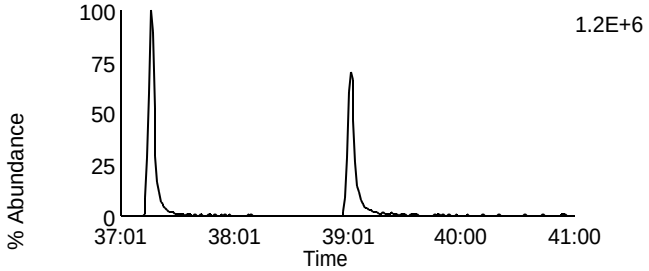
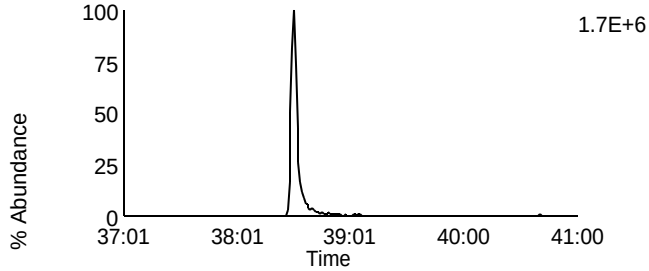
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G4 C11 - 435.8169
SAMP 10265141018 - SMT WI



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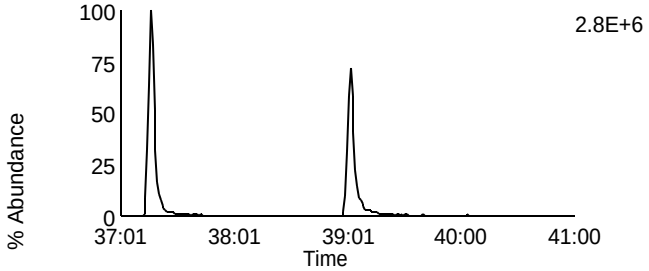
SAMP 10265141018 - SMT WI



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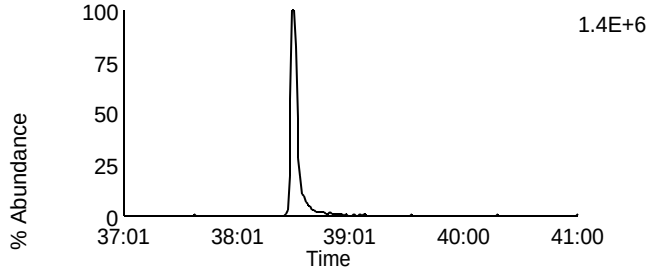
SAMP 10265141018 - SMT WI



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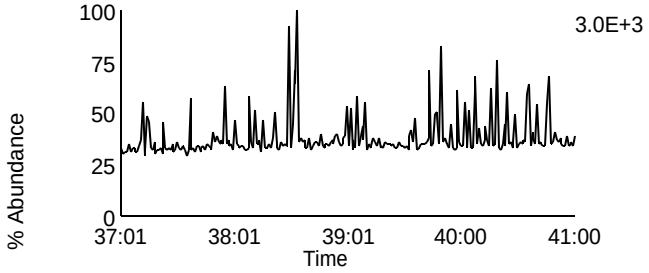
SAMP 10265141018 - SMT WI



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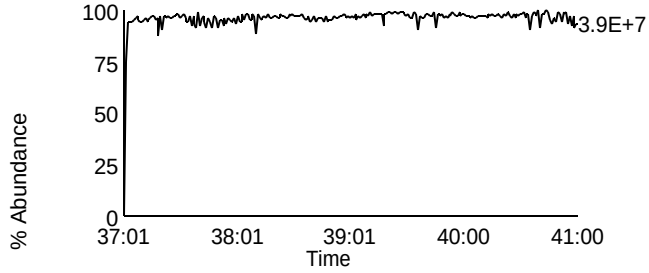
SAMP 10265141018 - SMT WI

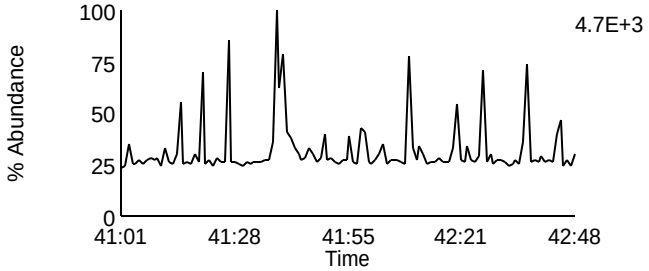


Homologue Group: Octas

Data File Name: F140512A_17
Date Acquired: 5/13/2014
Sample Description: SAMP 10265141018 - SMT WI

Lab Sample ID: 10265141018
Client Sample ID: MAK132L
Instrument: 10MSHR05 (F)

Data File: F140512A_17 G5 C4 - 441.7428
SAMP 10265141018 - SMT WI



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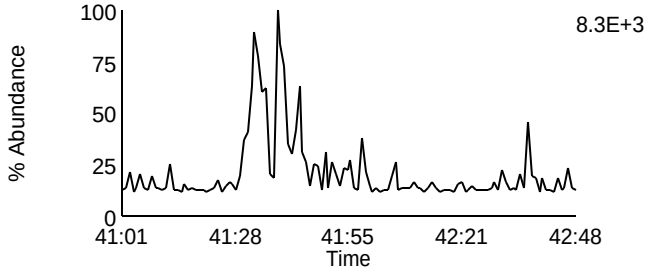
SAMP 10265141018 - SMT WI



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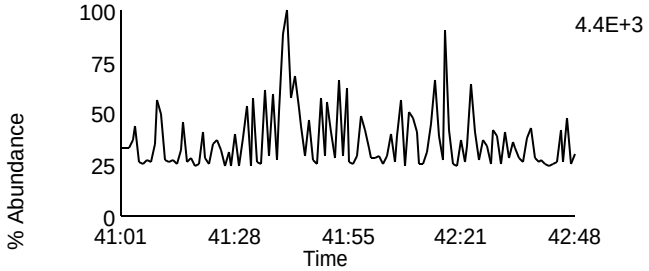
SAMP 10265141018 - SMT WI



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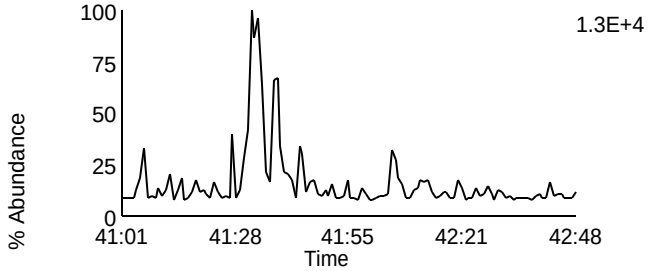
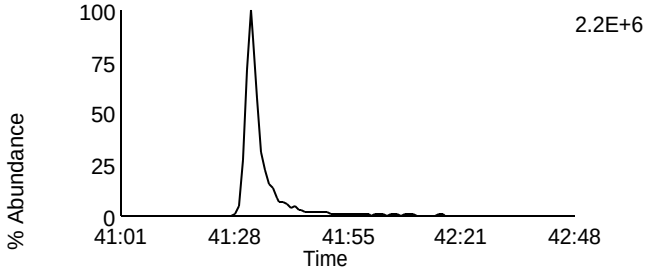
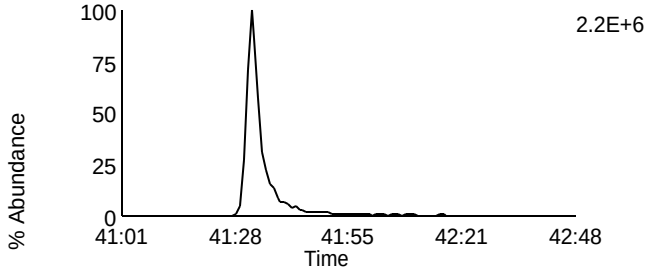
SAMP 10265141018 - SMT WI



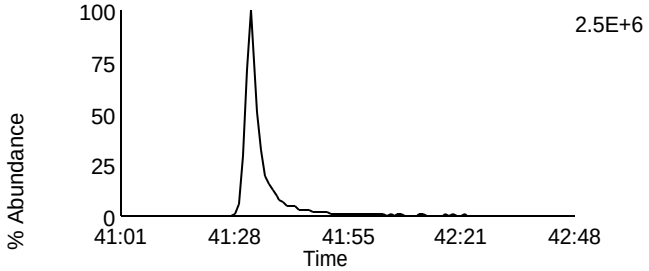
Data File: F140512A_17 G5 C11 - 469.7779
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G5 C11 - 469.7779
SAMP 10265141018 - SMT WI



Data File: F140512A_17 G5 C12 - 471.7749
SAMP 10265141018 - SMT WI



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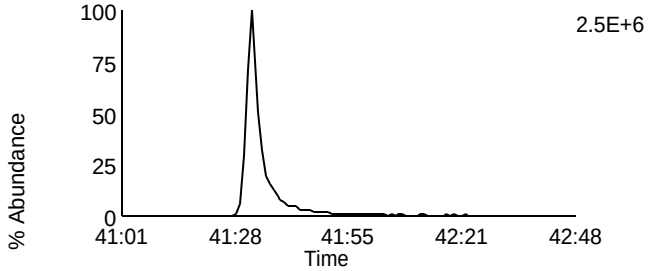
SAMP 10265141018 - SMT WI



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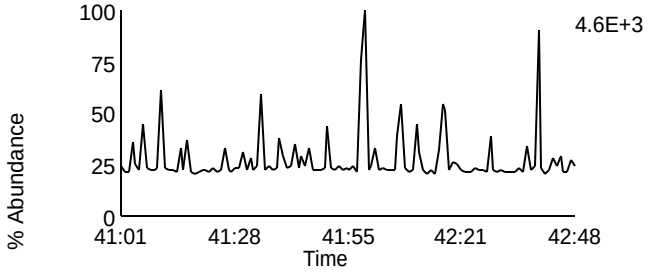
SAMP 10265141018 - SMT WI



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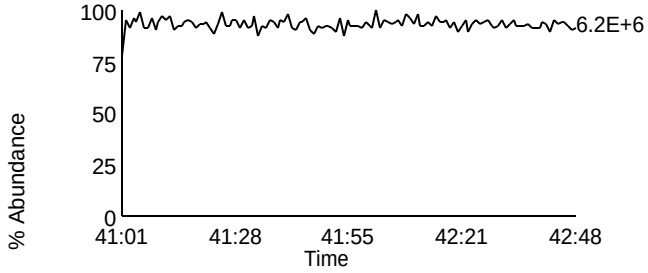
SAMP 10265141018 - SMT WI

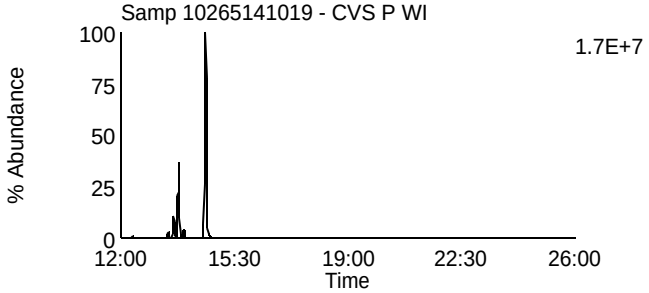


Homologue Group: Tetras

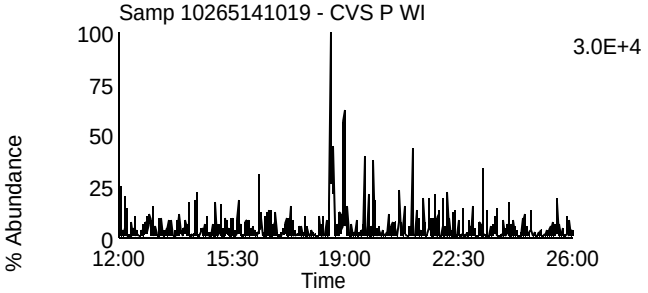
Data File Name: U140513A_08
Date Acquired: 5/13/2014
Sample Description: Samp 10265141019 - CVS P WI

Lab Sample ID: 10265141019
Client Sample ID: MAK134L
Instrument: 10MSHR06 (U)

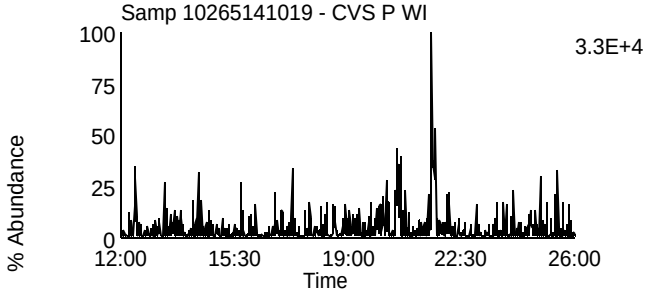
Data File: U140513A_08 G1 C1 - 303.9016
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C7 - 319.8965
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C2 - 305.8987
Samp 10265141019 - CVS P WI



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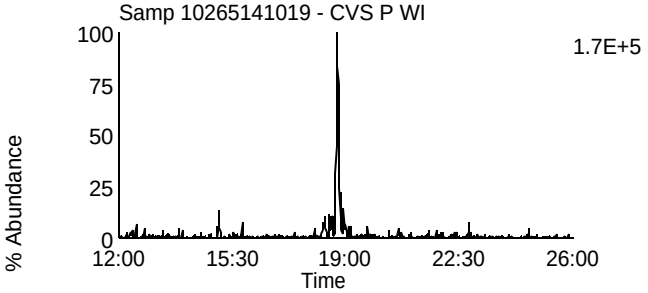
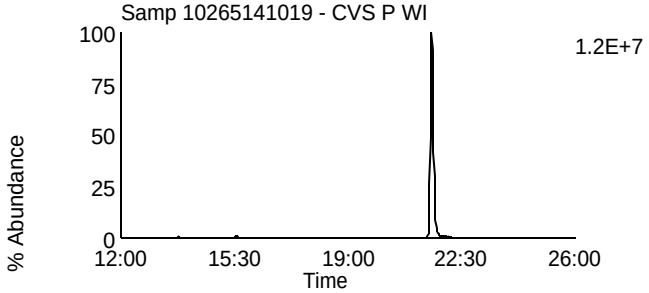
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C3 - 315.9418
Samp 10265141019 - CVS P WI



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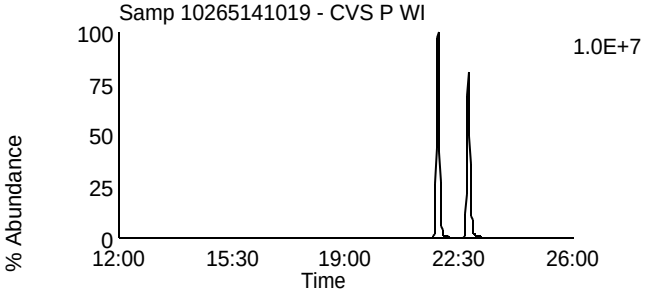
Samp 10265141019 - CVS P WI



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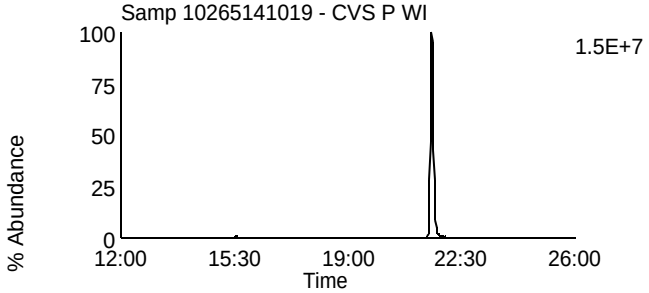
Samp 10265141019 - CVS P WI



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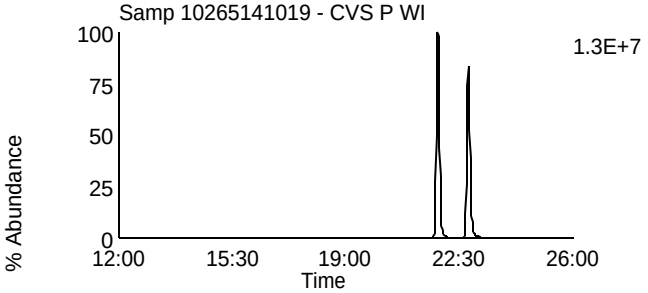
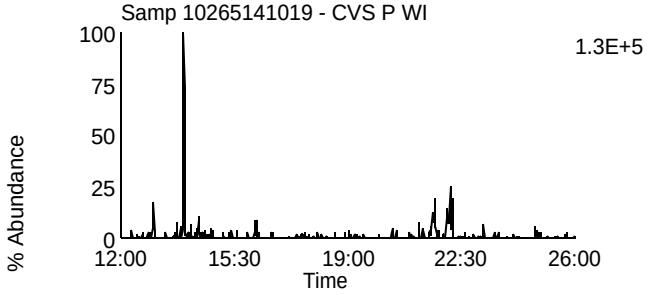
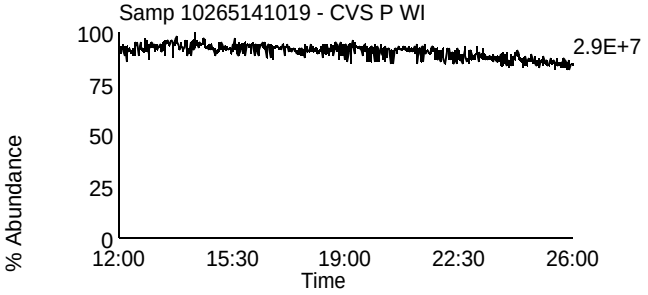
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C14 - 375.8364
Samp 10265141019 - CVS P WI



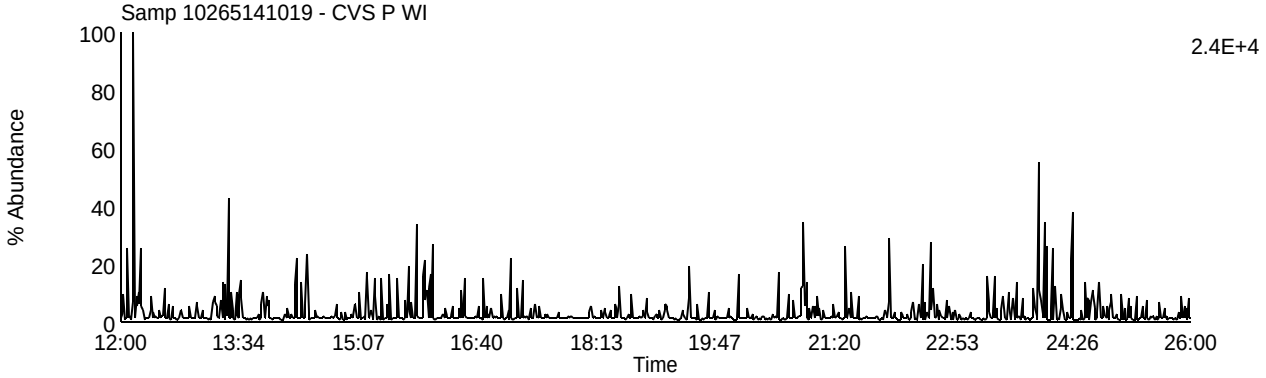
Data File: U140513A_08 G1 C5 - 318.9792
Samp 10265141019 - CVS P WI



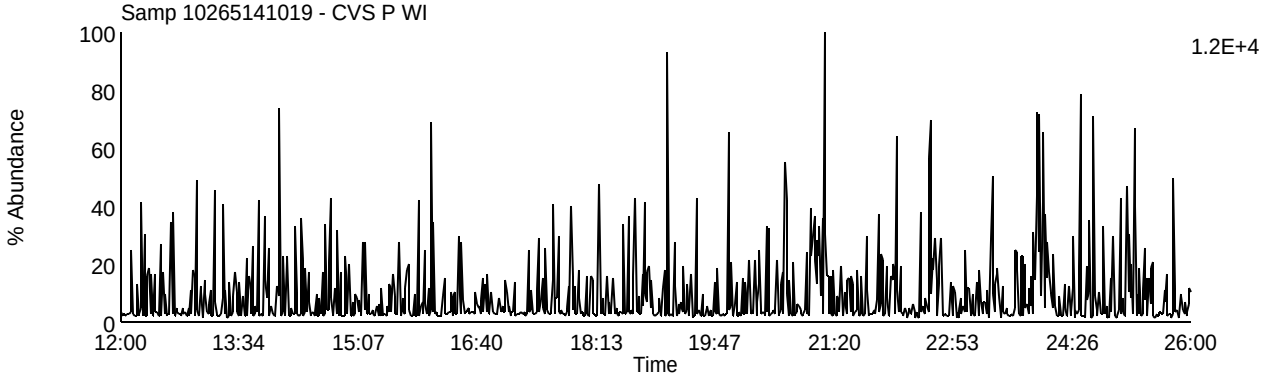
Homologue Group: Penta & Cleanup

Data File Name: U140513A_08	Lab Sample ID: 10265141019
Date Acquired: 5/13/2014	Client Sample ID: MAK134L
Sample Description: Samp 10265141019 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513A_08 G1 C12 - 339.8597
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C13 - 341.8567
Samp 10265141019 - CVS P WI



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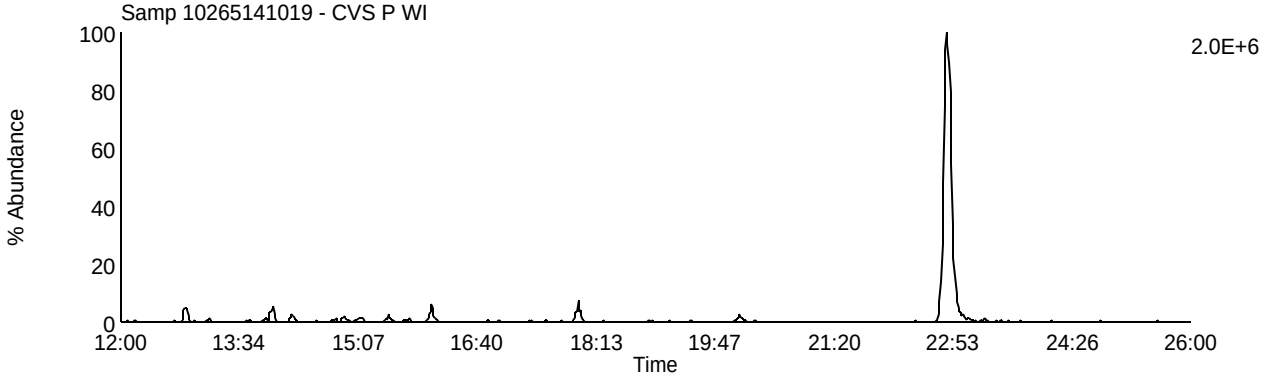
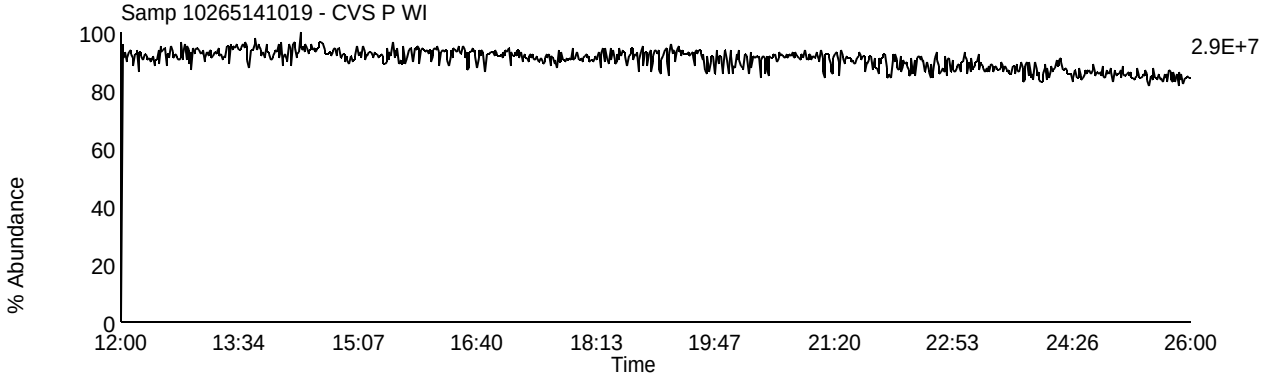
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G1 C5 - 318.9792
Samp 10265141019 - CVS P WI

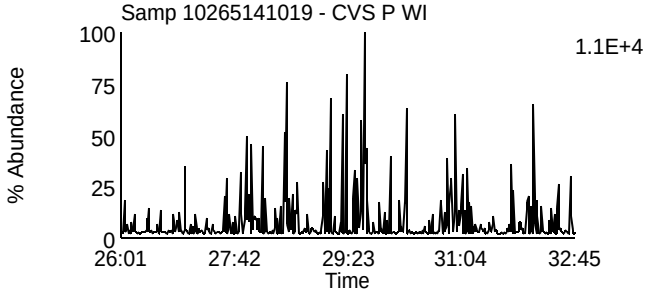


Homologue Group: Pentas

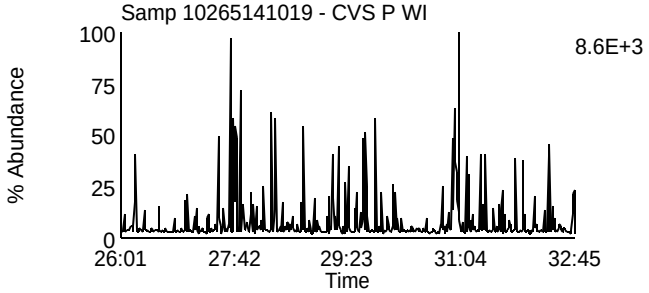
Data File Name: U140513A_08
Date Acquired: 5/13/2014
Sample Description: Samp 10265141019 - CVS P WI

Lab Sample ID: 10265141019
Client Sample ID: MAK134L
Instrument: 10MSHR06 (U)

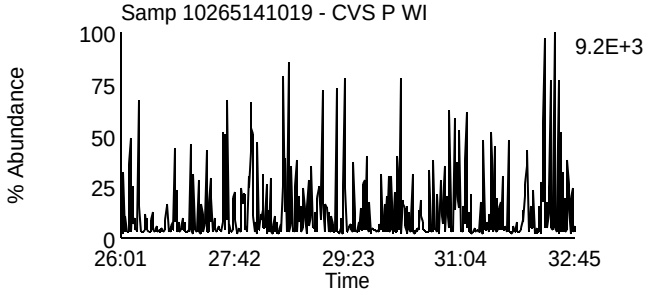
Data File: U140513A_08 G2 C1 - 339.8597
Samp 10265141019 - CVS P WI



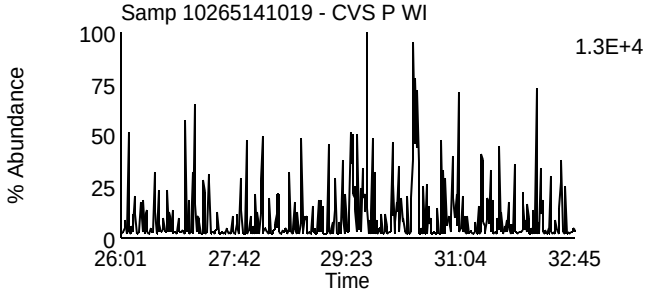
Data File: U140513A_08 G2 C4 - 353.8576
Samp 10265141019 - CVS P WI



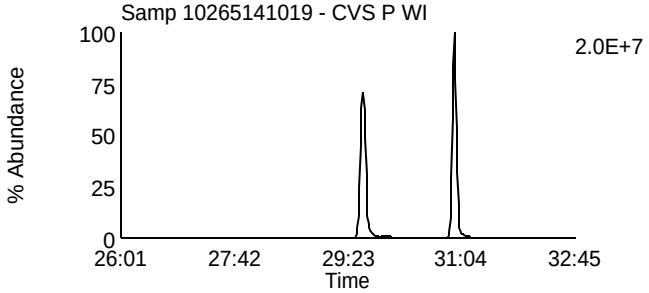
Data File: U140513A_08 G2 C2 - 341.8567
Samp 10265141019 - CVS P WI



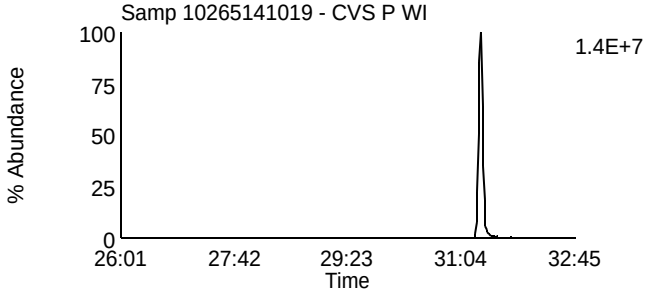
Data File: U140513A_08 G2 C8 - 355.8546
Samp 10265141019 - CVS P WI



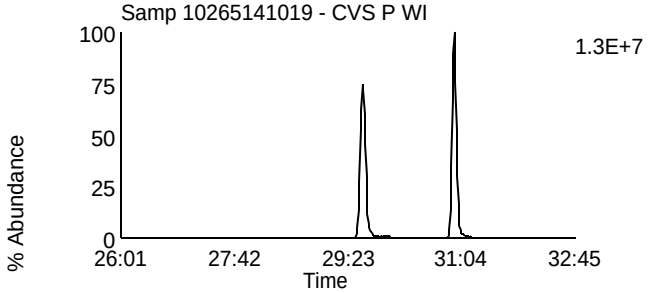
Data File: U140513A_08 G2 C3 - 351.8999
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G2 C10 - 367.8948
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G2 C5 - 353.8969
Samp 10265141019 - CVS P WI



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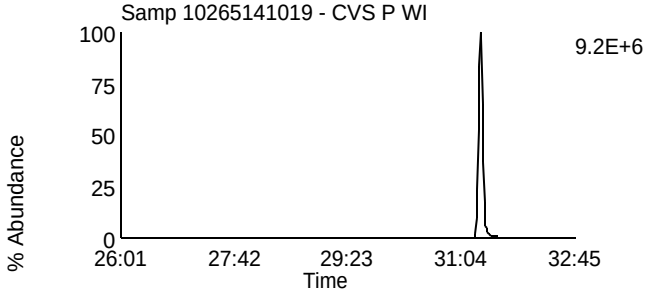
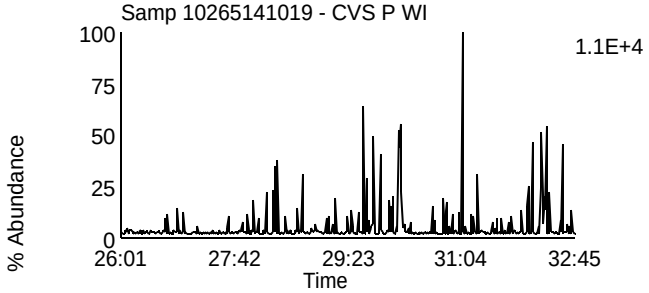
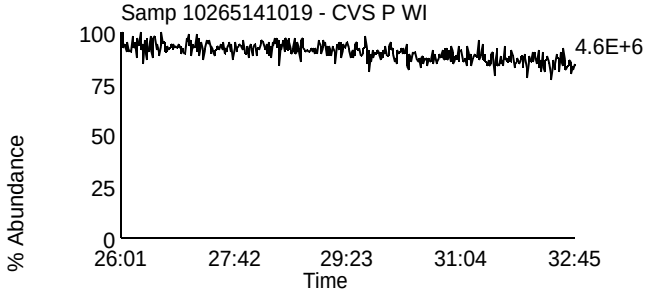


Data File: U140513A_08 G2 C12 - 409.7974
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G2 C6 - 354.9792
Samp 10265141019 - CVS P WI

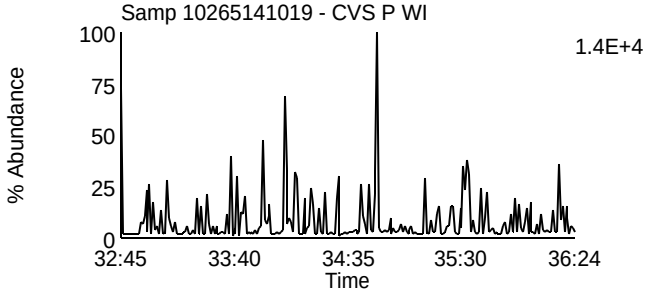


Homologue Group: Hexas

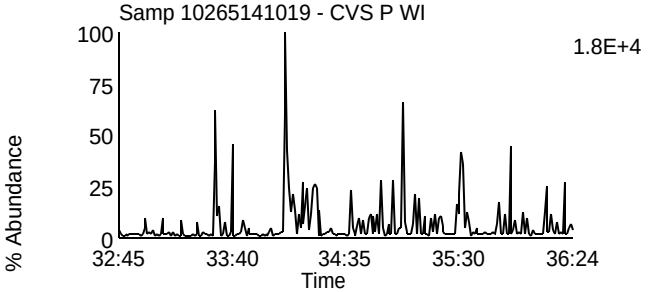
Data File Name: U140513A_08
Date Acquired: 5/13/2014
Sample Description: Samp 10265141019 - CVS P WI

Lab Sample ID: 10265141019
Client Sample ID: MAK134L
Instrument: 10MSHR06 (U)

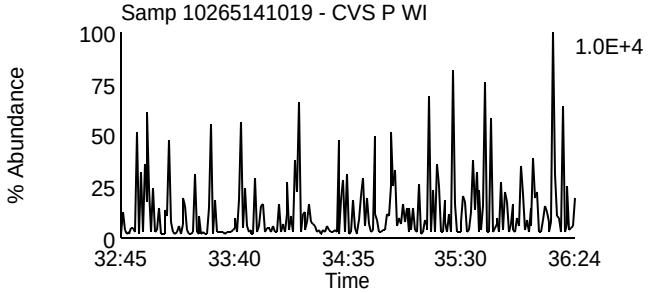
Data File: U140513A_08 G3 C1 - 373.8207
Samp 10265141019 - CVS P WI



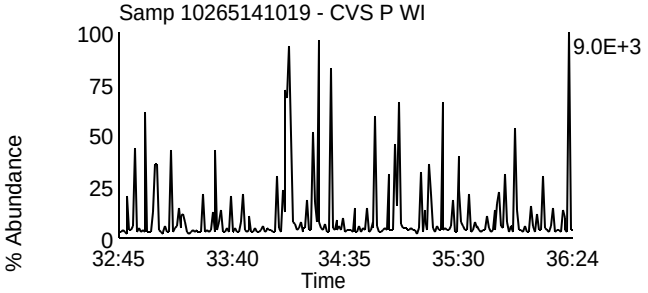
Data File: U140513A_08 G3 C7 - 389.8156
Samp 10265141019 - CVS P WI



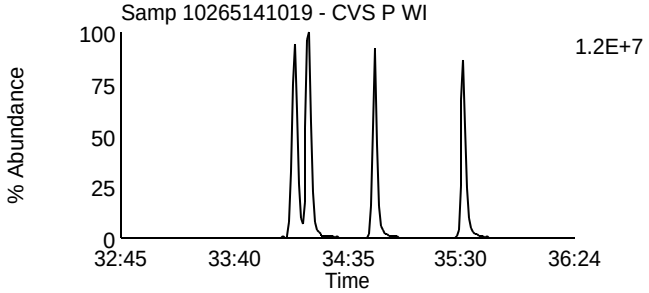
Data File: U140513A_08 G3 C2 - 375.8178
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G3 C8 - 391.8127
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G3 C5 - 383.8639
Samp 10265141019 - CVS P WI



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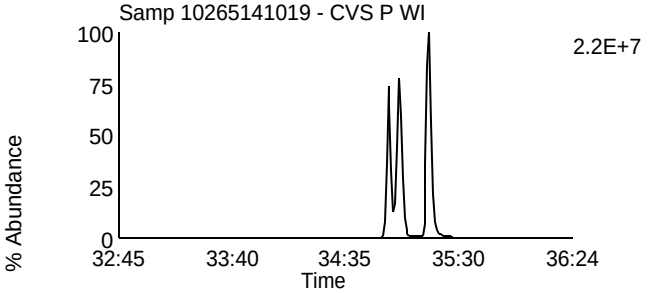
Samp 10265141019 - CVS P WI



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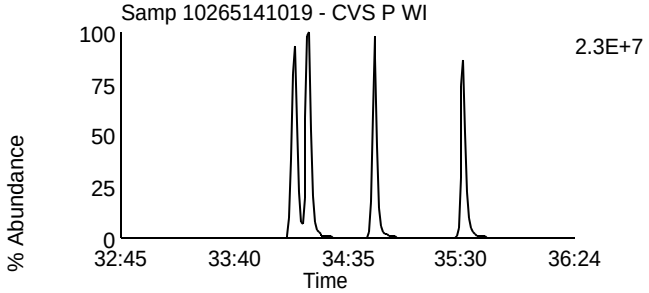
Samp 10265141019 - CVS P WI



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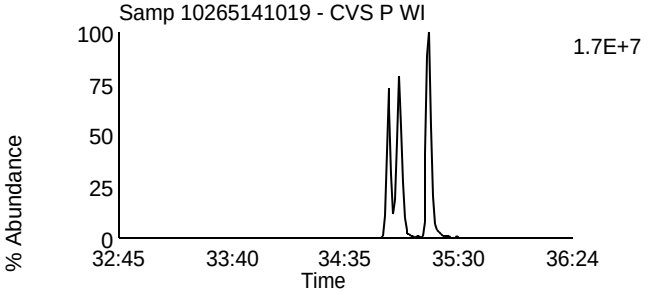
Samp 10265141019 - CVS P WI



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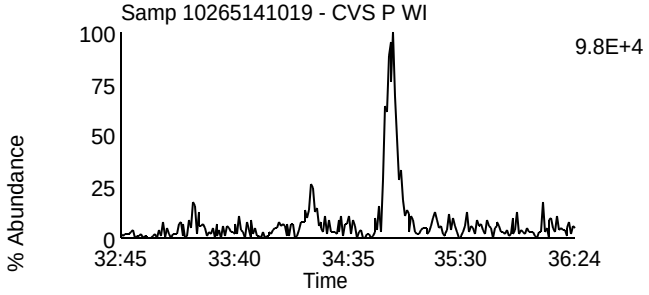
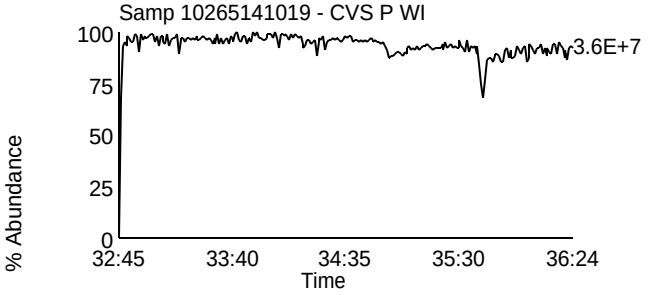
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G3 C3 - 380.976
Samp 10265141019 - CVS P WI

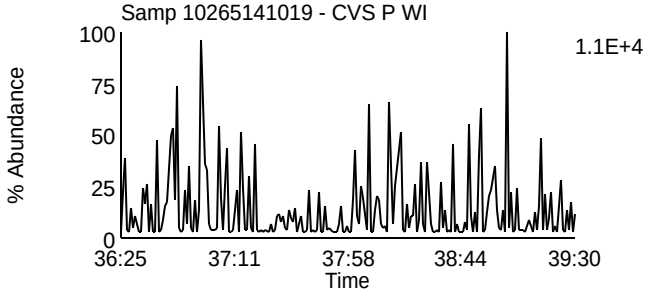


Homologue Group: Heptas

Data File Name: U140513A_08
Date Acquired: 5/13/2014
Sample Description: Samp 10265141019 - CVS P WI

Lab Sample ID: 10265141019
Client Sample ID: MAK134L
Instrument: 10MSHR06 (U)

Data File: U140513A_08 G4 C3 - 407.7818
Samp 10265141019 - CVS P WI



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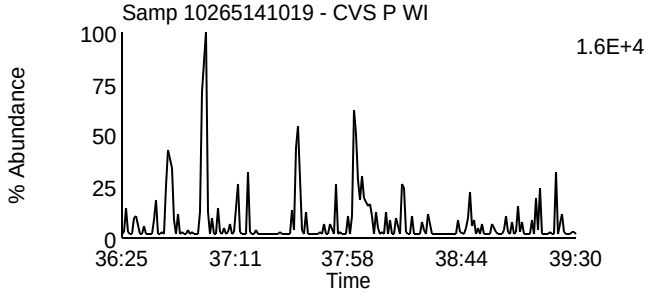
Samp 10265141019 - CVS P WI



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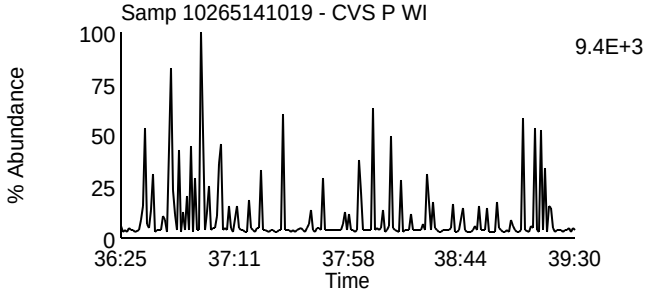
Samp 10265141019 - CVS P WI



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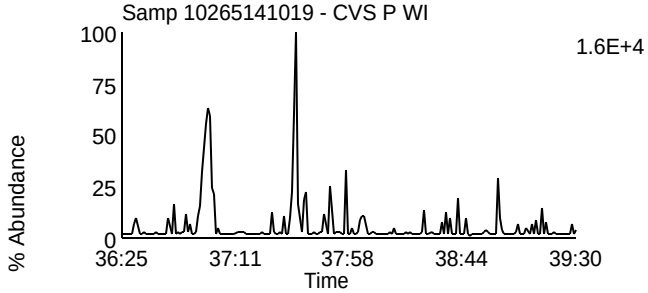
Samp 10265141019 - CVS P WI



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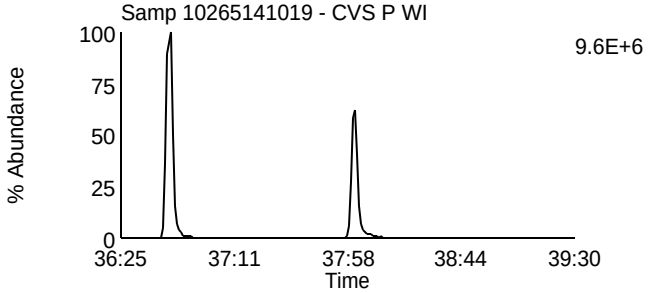
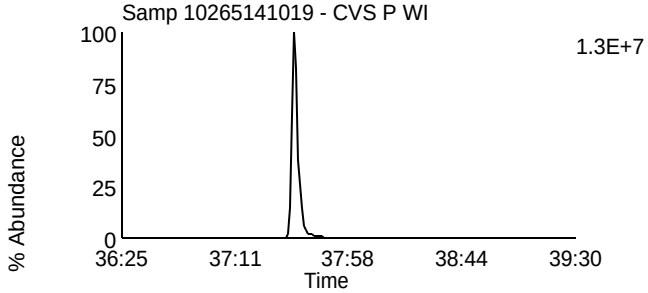
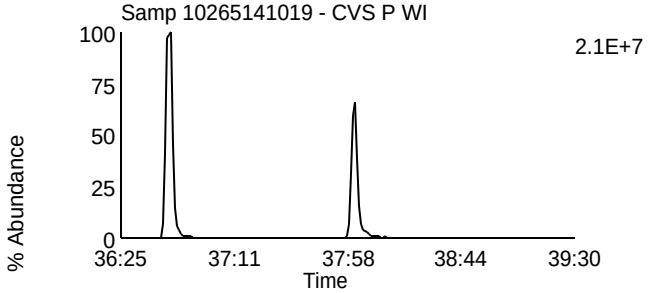


Data File: U140513A_08 G4 C11 - 435.8169
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G4 C7 - 419.822
Samp 10265141019 - CVS P WI



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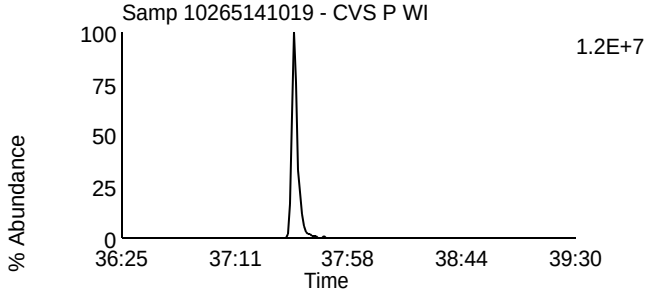
Samp 10265141019 - CVS P WI



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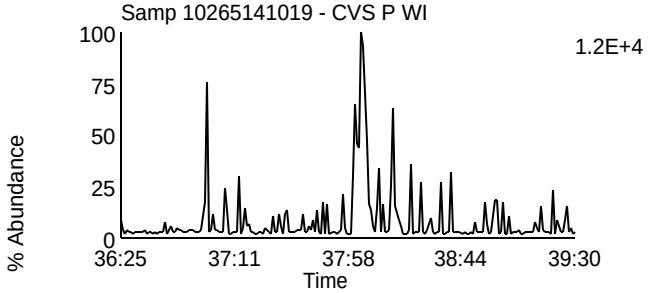
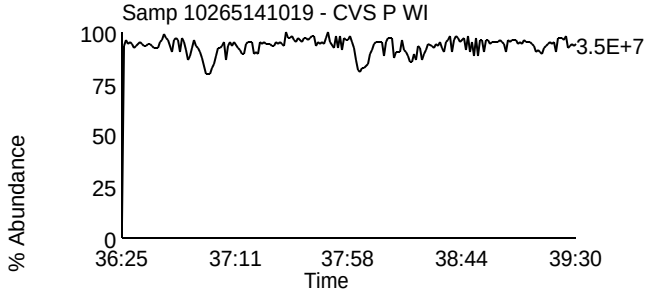
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G4 C1 - 380.976
Samp 10265141019 - CVS P WI

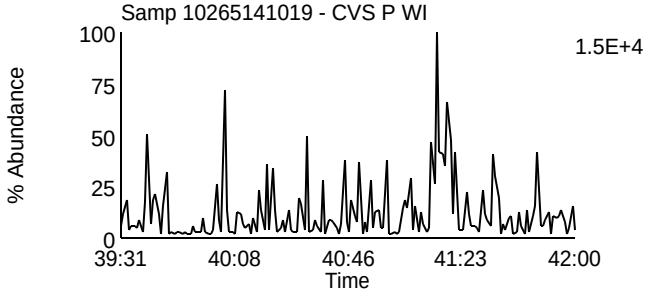


Homologue Group: Octas

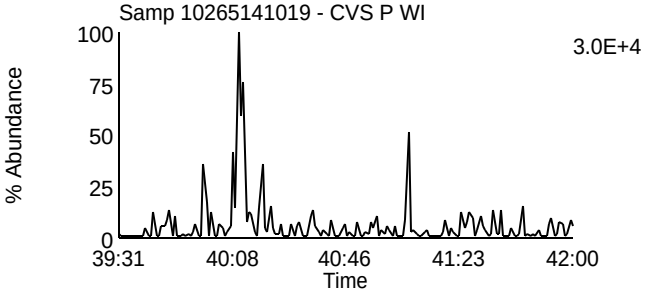
Data File Name: U140513A_08
Date Acquired: 5/13/2014
Sample Description: Samp 10265141019 - CVS P WI

Lab Sample ID: 10265141019
Client Sample ID: MAK134L
Instrument: 10MSHR06 (U)

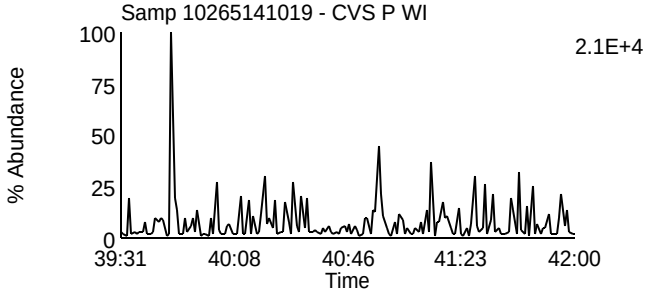
Data File: U140513A_08 G5 C4 - 441.7428
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G5 C8 - 457.7377
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G5 C5 - 443.7398
Samp 10265141019 - CVS P WI



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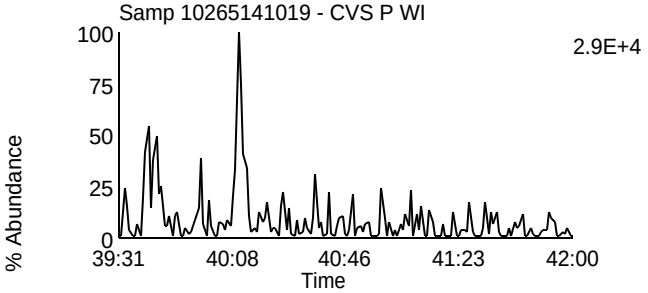
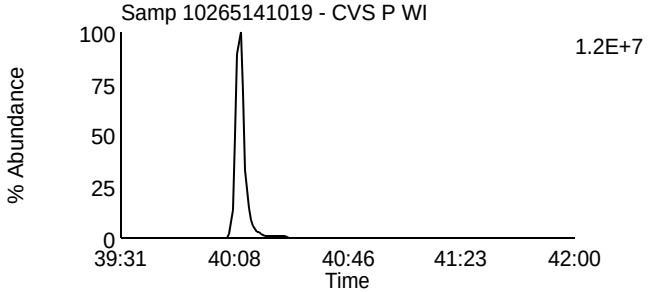
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G5 C11 - 469.7779
Samp 10265141019 - CVS P WI



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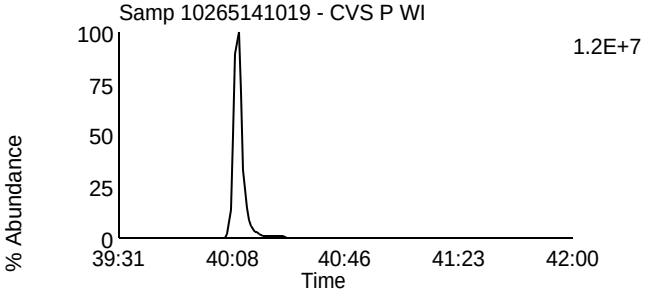
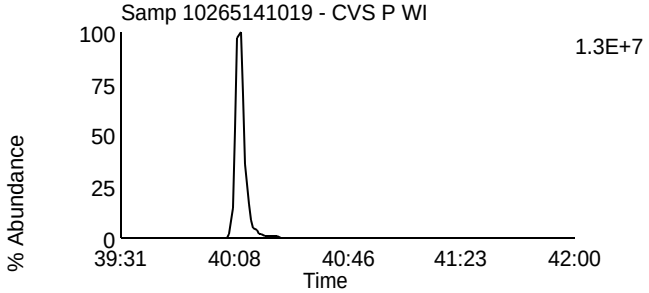
Samp 10265141019 - CVS P WI



Data File: U140513A_08 G5 C12 - 471.7749
Samp 10265141019 - CVS P WI



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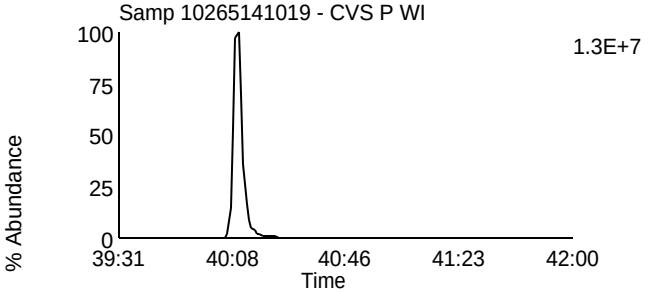

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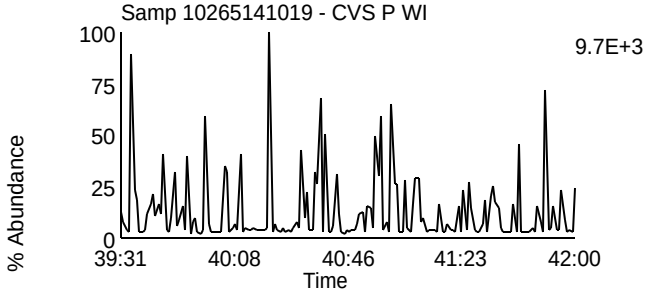
Samp 10265141019 - CVS P WI



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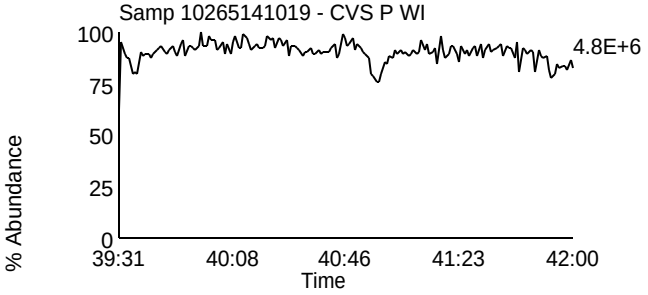
Samp 10265141019 - CVS P WI

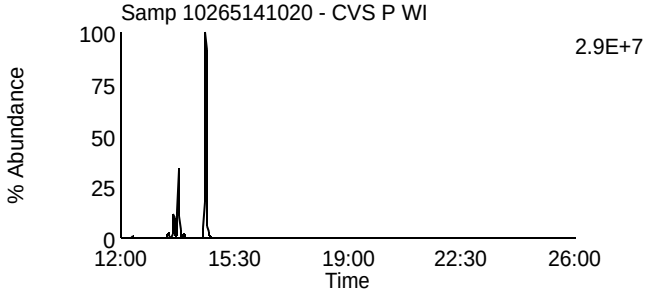


Homologue Group: Tetras

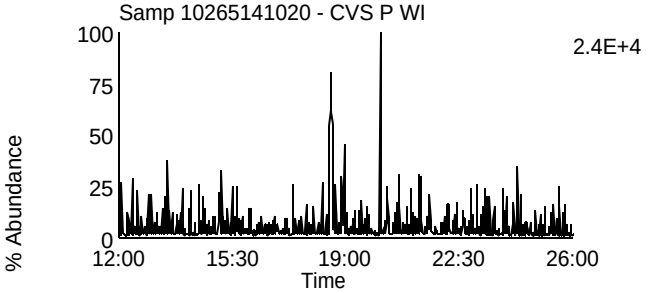
Data File Name: U140513A_09
Date Acquired: 5/13/2014
Sample Description: Samp 10265141020 - CVS P WI

Lab Sample ID: 10265141020
Client Sample ID: MAK135L
Instrument: 10MSHR06 (U)

Data File: U140513A_09 G1 C1 - 303.9016
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G1 C7 - 319.8965
Samp 10265141020 - CVS P WI



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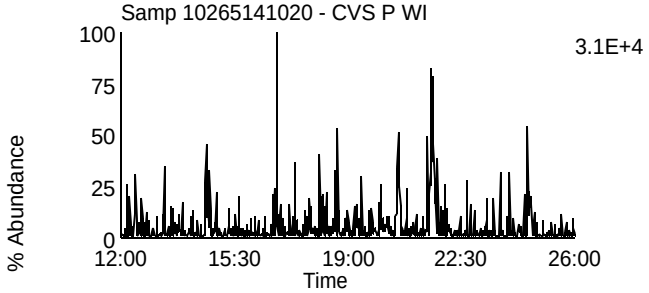
Samp 10265141020 - CVS P WI



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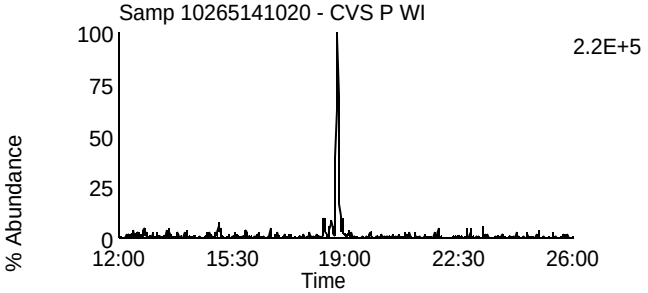
Samp 10265141020 - CVS P WI



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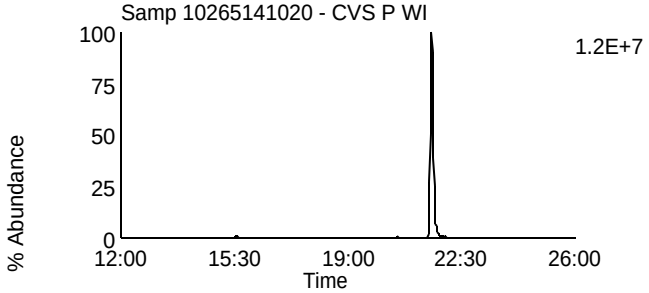
Samp 10265141020 - CVS P WI



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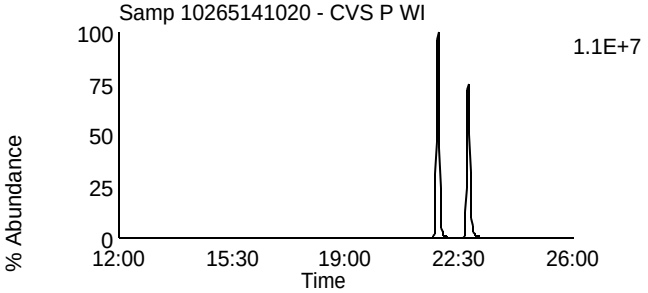
Samp 10265141020 - CVS P WI



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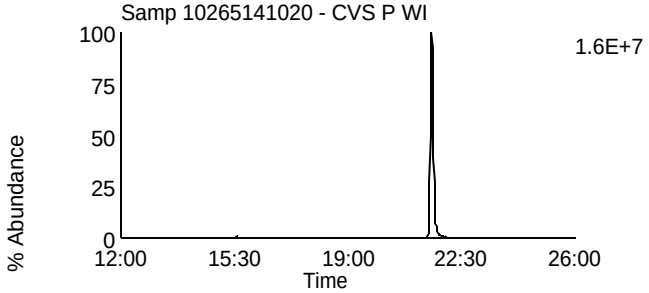
Samp 10265141020 - CVS P WI



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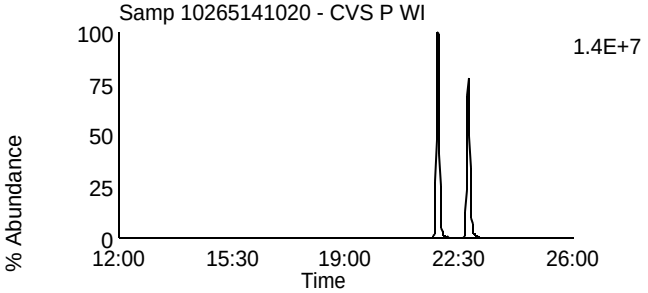
Samp 10265141020 - CVS P WI



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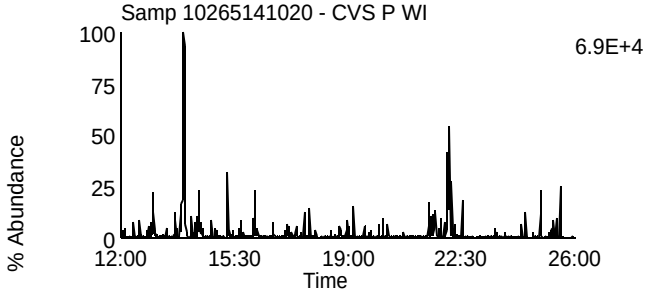
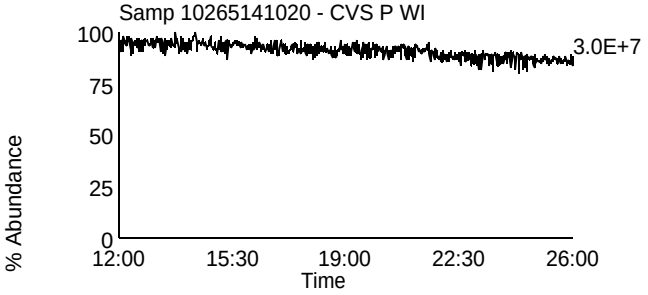
Samp 10265141020 - CVS P WI



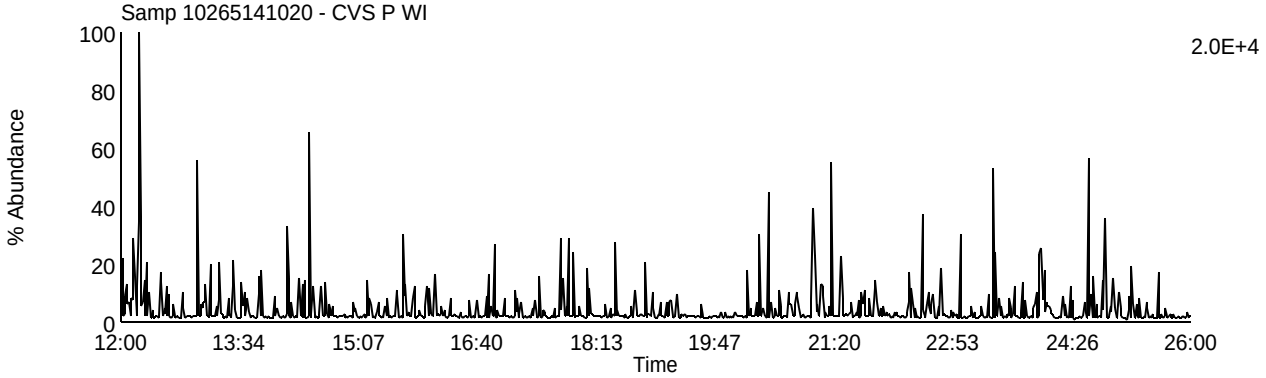
Data File: U140513A_09 G1 C5 - 318.9792
Samp 10265141020 - CVS P WI



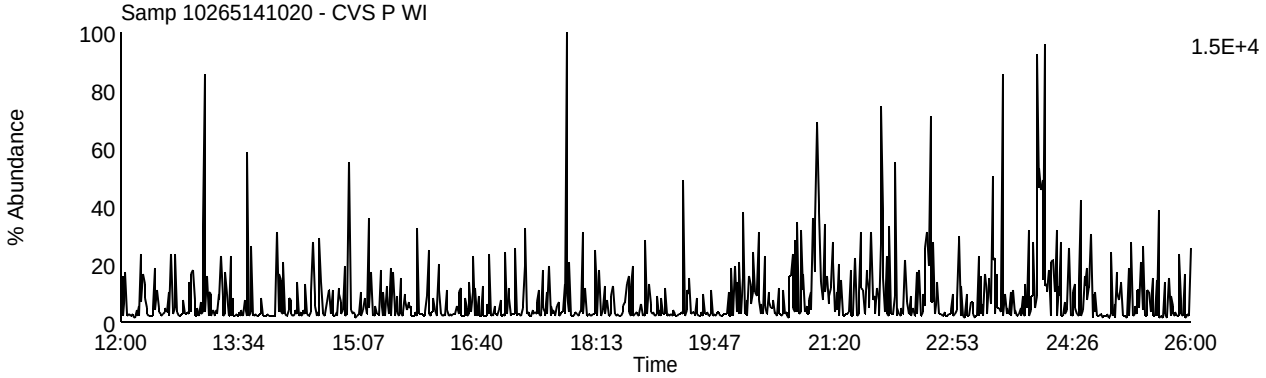
Homologue Group: Penta & Cleanup

Data File Name: U140513A_09	Lab Sample ID: 10265141020
Date Acquired: 5/13/2014	Client Sample ID: MAK135L
Sample Description: Samp 10265141020 - CVS P WI	Instrument: 10MSHR06 (U)

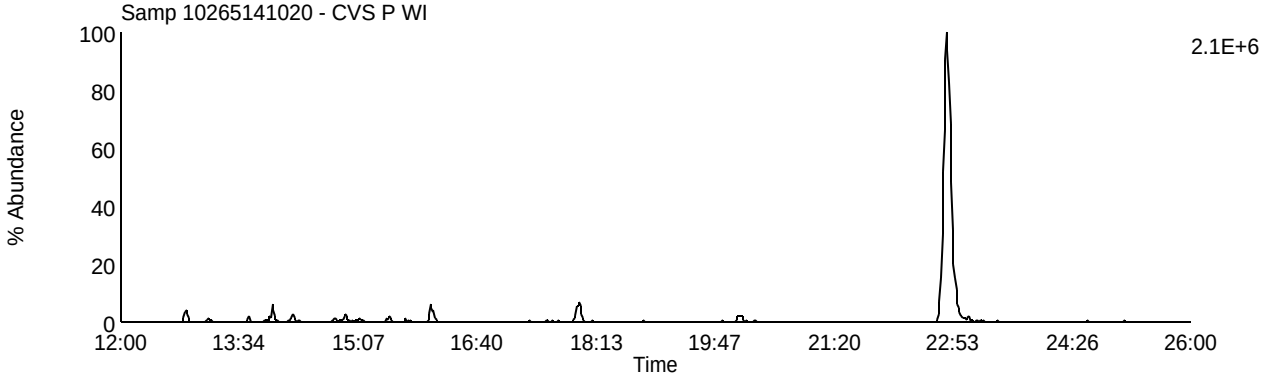
Data File: U140513A_09 G1 C12 - 339.8597
Samp 10265141020 - CVS P WI



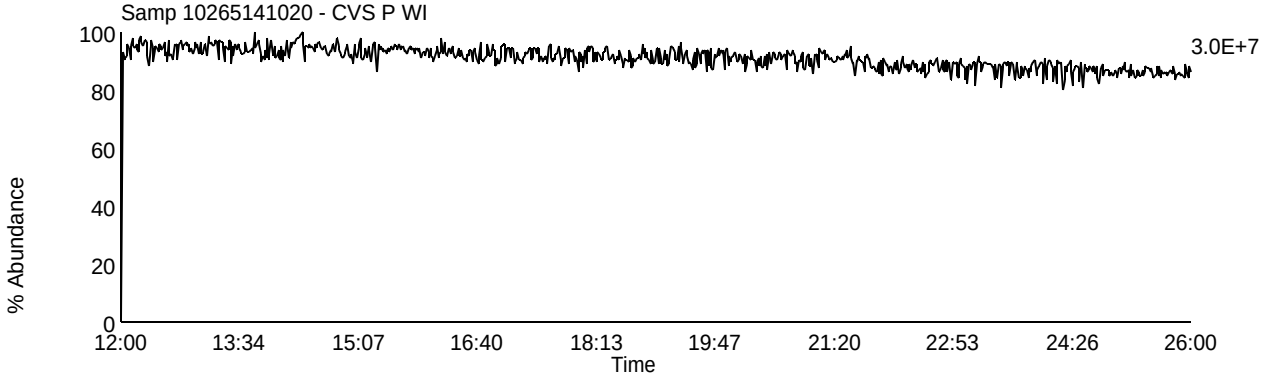
Data File: U140513A_09 G1 C13 - 341.8567
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G1 C9 - 327.8847
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G1 C5 - 318.9792
Samp 10265141020 - CVS P WI

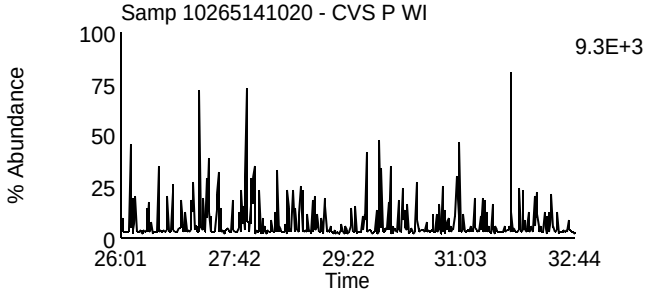


Homologue Group: Pentas

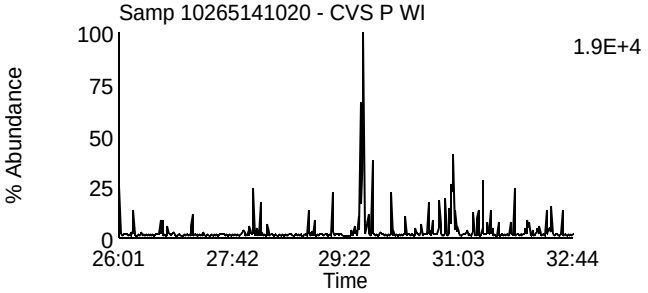
Data File Name: U140513A_09
Date Acquired: 5/13/2014
Sample Description: Samp 10265141020 - CVS P WI

Lab Sample ID: 10265141020
Client Sample ID: MAK135L
Instrument: 10MSHR06 (U)

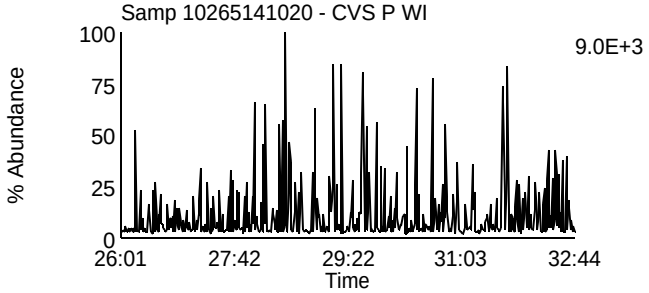
Data File: U140513A_09 G2 C1 - 339.8597
Samp 10265141020 - CVS P WI



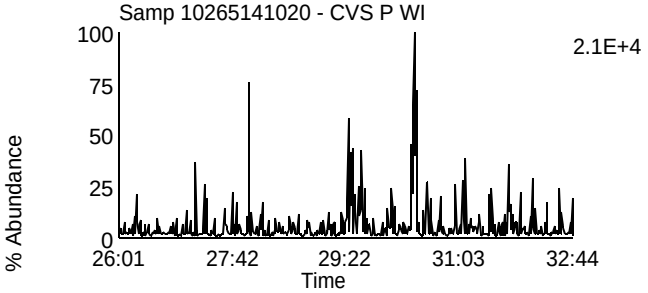
Data File: U140513A_09 G2 C4 - 353.8576
Samp 10265141020 - CVS P WI



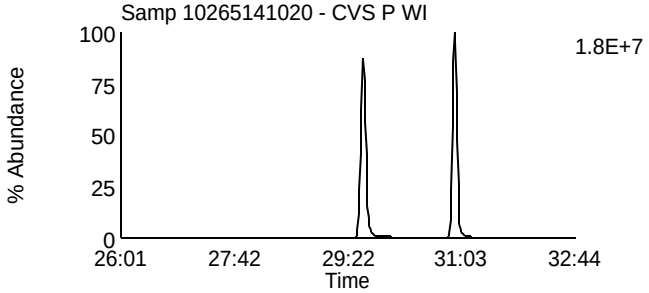
Data File: U140513A_09 G2 C2 - 341.8567
Samp 10265141020 - CVS P WI



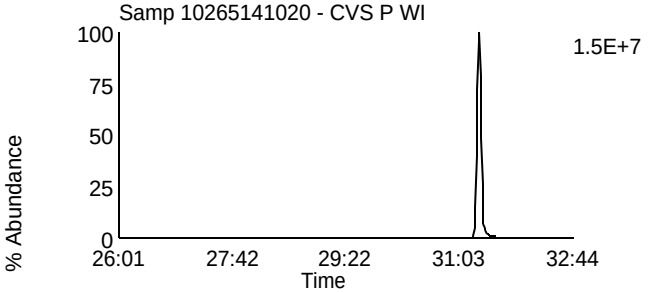
Data File: U140513A_09 G2 C8 - 355.8546
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G2 C3 - 351.8999
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G2 C10 - 367.8948
Samp 10265141020 - CVS P WI



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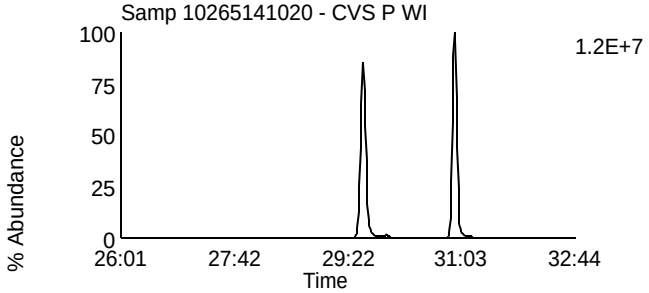
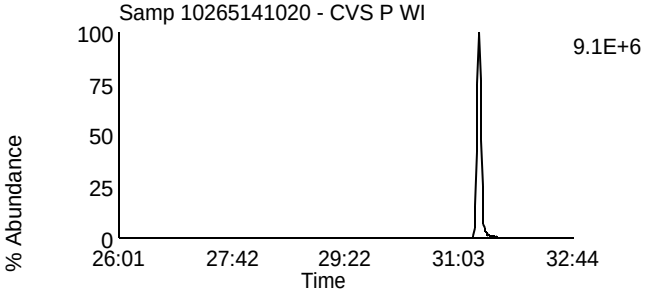


Data File: U140513A_09 G2 C11 - 369.8918
Samp 10265141020 - CVS P WI



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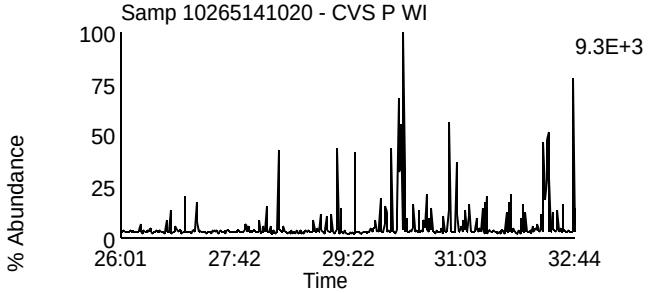
Samp 10265141020 - CVS P WI



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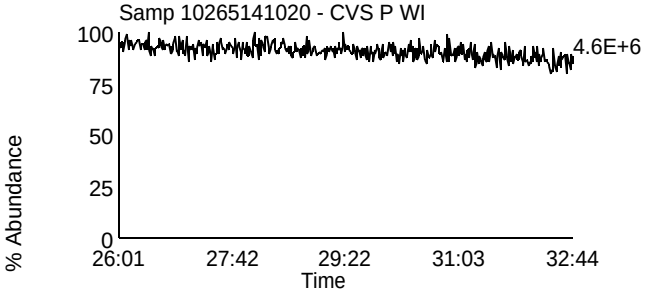
Samp 10265141020 - CVS P WI

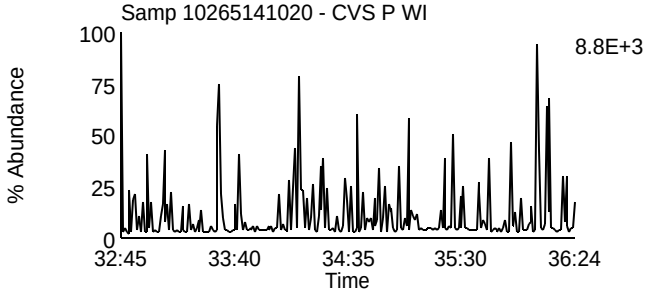


Homologue Group: Hexas

Data File Name: U140513A_09
Date Acquired: 5/13/2014
Sample Description: Samp 10265141020 - CVS P WI

Lab Sample ID: 10265141020
Client Sample ID: MAK135L
Instrument: 10MSHR06 (U)

Data File: U140513A_09 G3 C1 - 373.8207
Samp 10265141020 - CVS P WI



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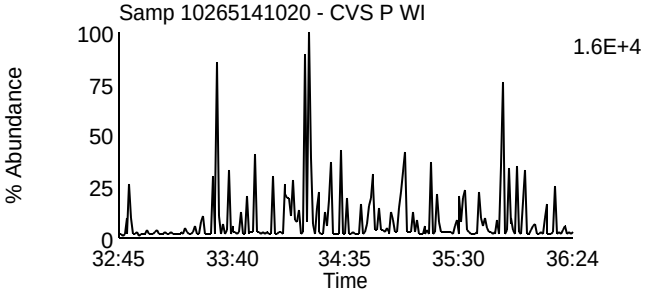
Samp 10265141020 - CVS P WI



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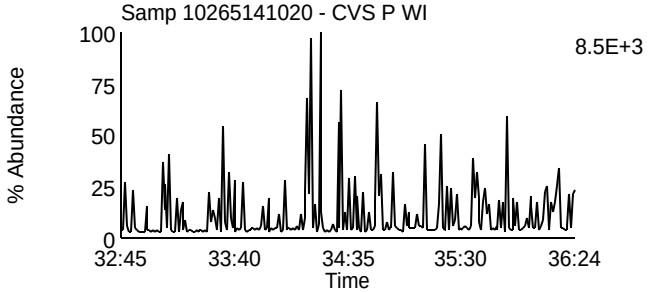
Samp 10265141020 - CVS P WI



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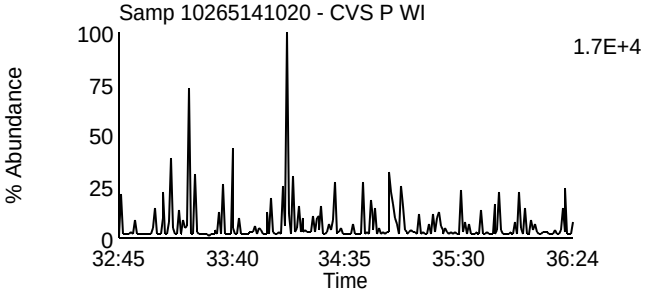
Samp 10265141020 - CVS P WI



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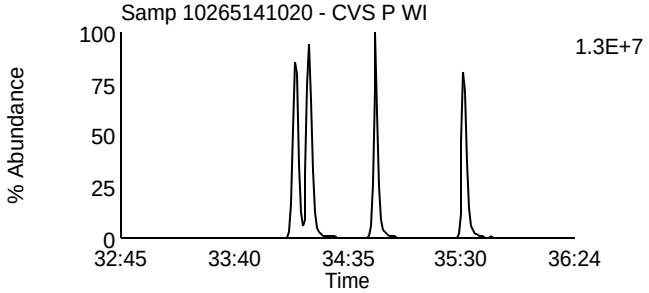
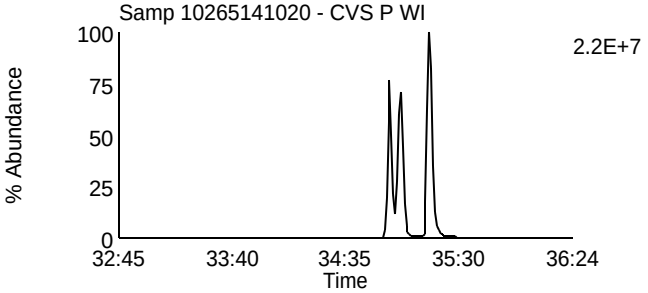
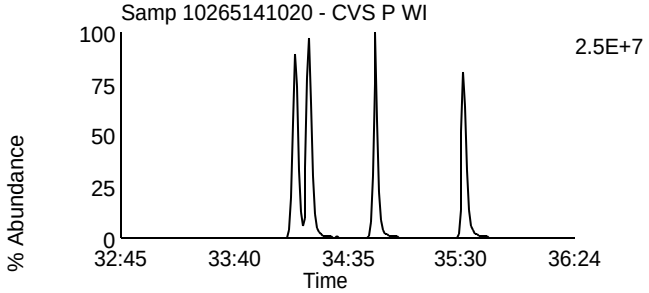
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G3 C9 - 401.8559
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G3 C6 - 385.861
Samp 10265141020 - CVS P WI



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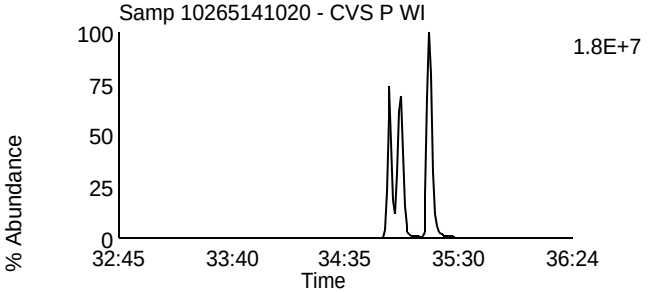

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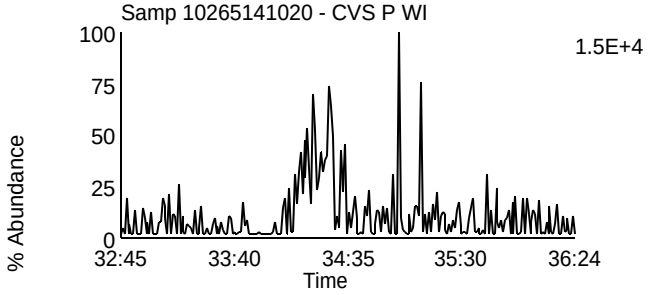
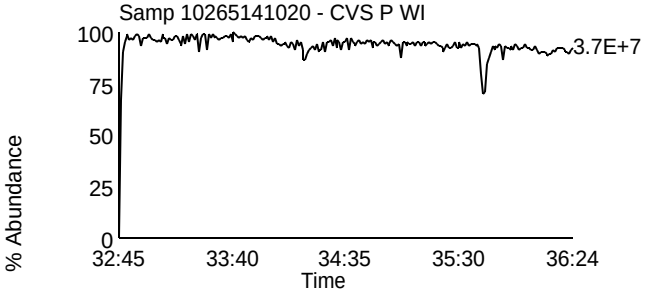
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G3 C3 - 380.976
Samp 10265141020 - CVS P WI

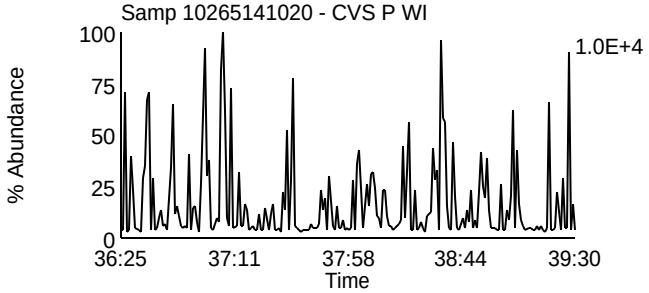


Homologue Group: Heptas

Data File Name: U140513A_09
Date Acquired: 5/13/2014
Sample Description: Samp 10265141020 - CVS P WI

Lab Sample ID: 10265141020
Client Sample ID: MAK135L
Instrument: 10MSHR06 (U)

Data File: U140513A_09 G4 C3 - 407.7818
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G4 C8 - 423.7767
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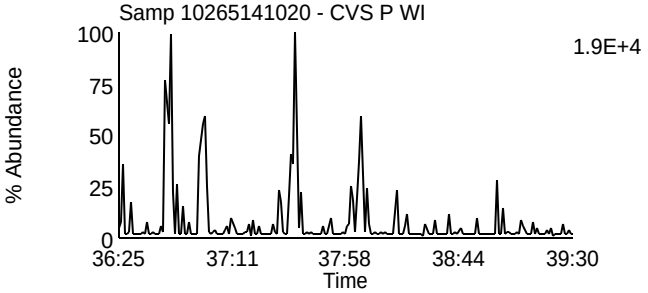
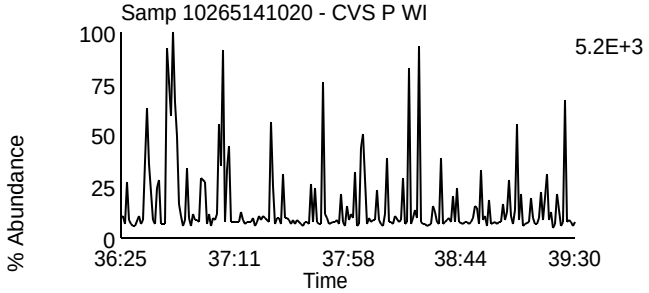


Data File: U140513A_09 G4 C4 - 409.7788
Samp 10265141020 - CVS P WI



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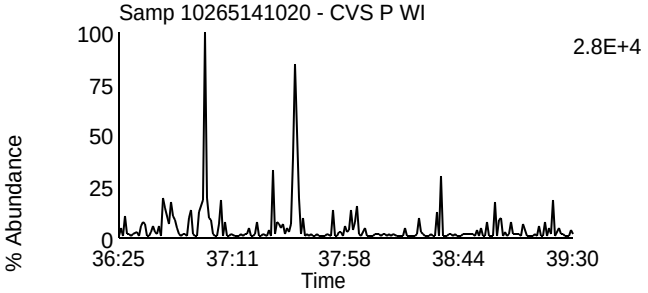
Samp 10265141020 - CVS P WI



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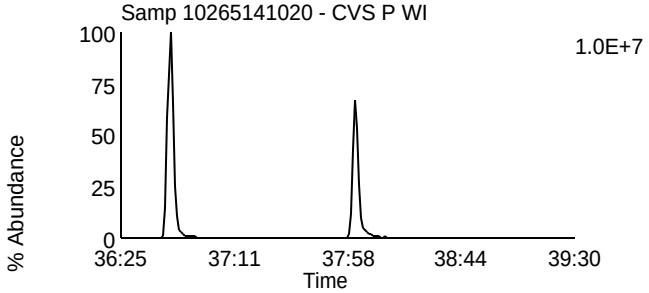
Samp 10265141020 - CVS P WI



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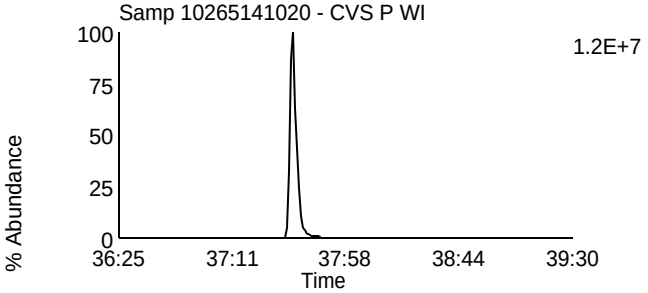
Samp 10265141020 - CVS P WI



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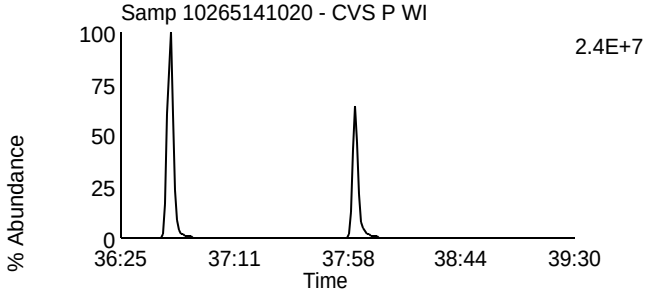
Samp 10265141020 - CVS P WI



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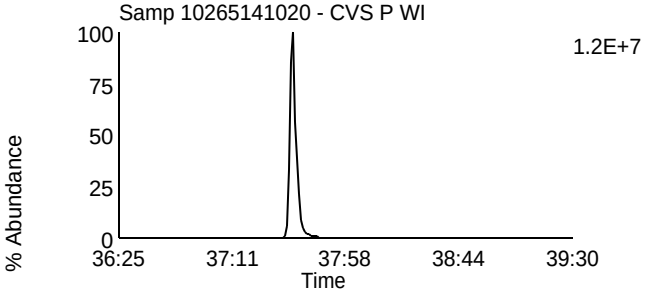

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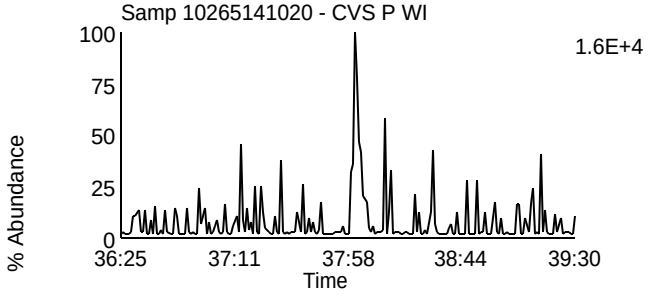
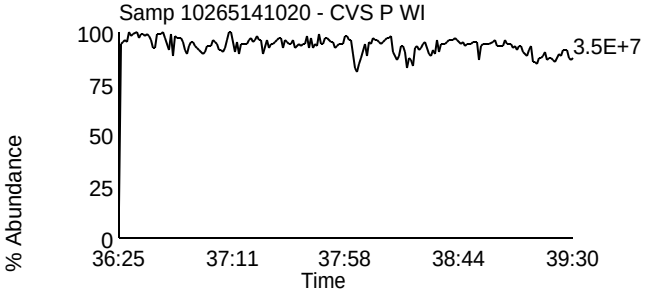
Samp 10265141020 - CVS P WI



Data File: U140513A_09 G4 C1 - 380.976
Samp 10265141020 - CVS P WI

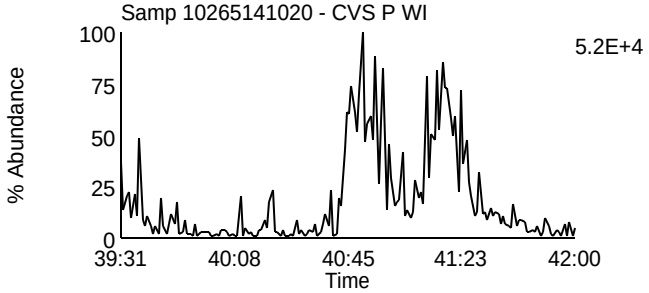


Homologue Group: Octas

Data File Name: U140513A_09
Date Acquired: 5/13/2014
Sample Description: Samp 10265141020 - CVS P WI

Lab Sample ID: 10265141020
Client Sample ID: MAK135L
Instrument: 10MSHR06 (U)

Data File: U140513A_09 G5 C4 - 441.7428
Samp 10265141020 - CVS P WI



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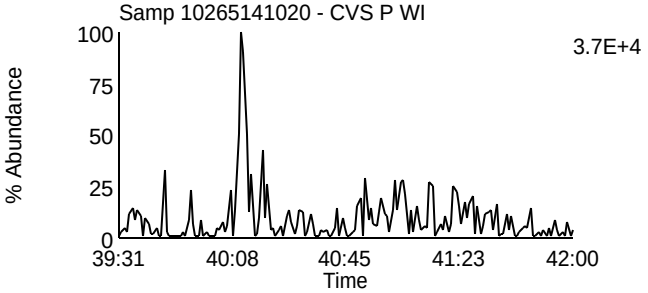
Samp 10265141020 - CVS P WI



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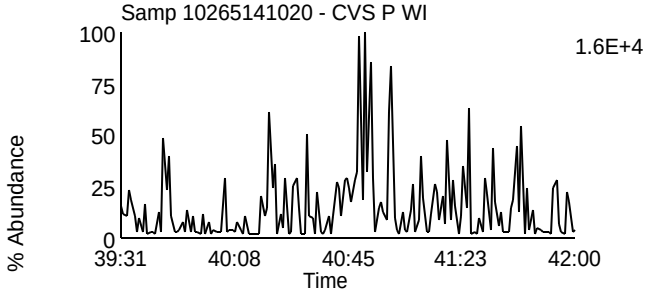
Samp 10265141020 - CVS P WI



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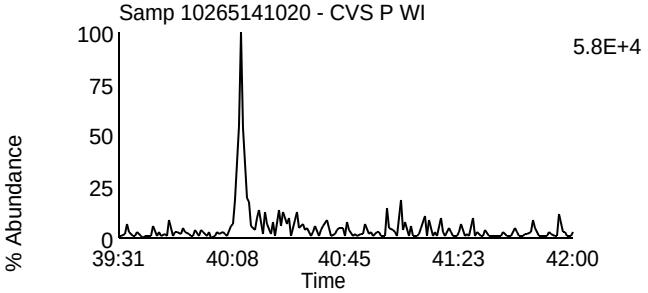
Samp 10265141020 - CVS P WI



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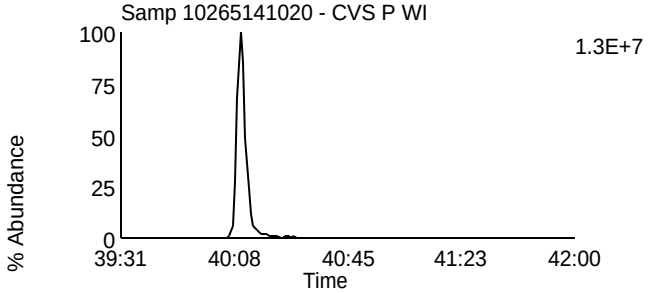
Samp 10265141020 - CVS P WI



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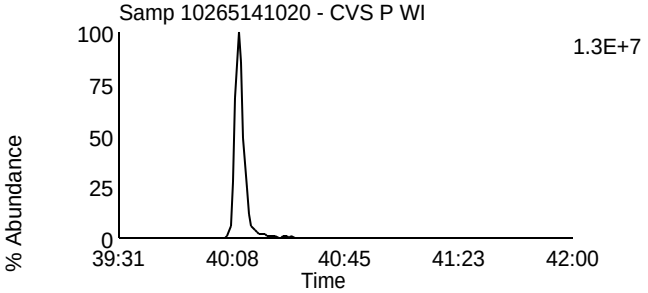
Samp 10265141020 - CVS P WI



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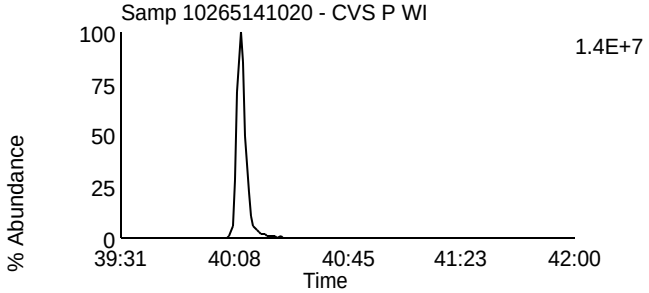
Samp 10265141020 - CVS P WI



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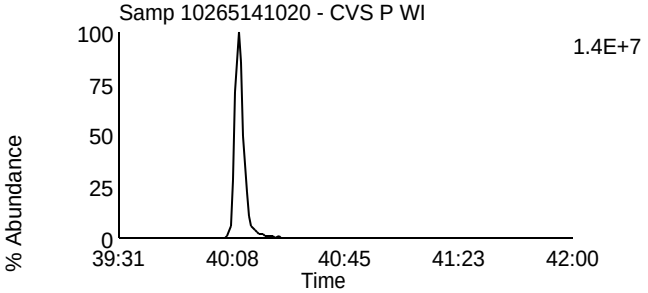

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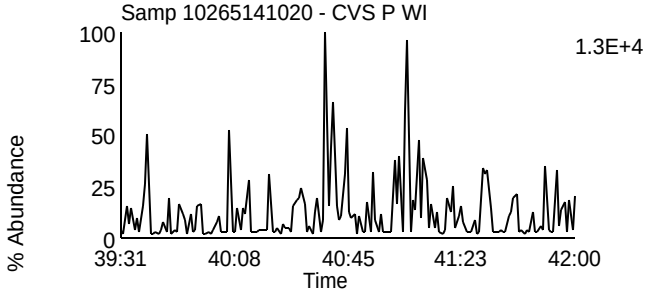
Samp 10265141020 - CVS P WI



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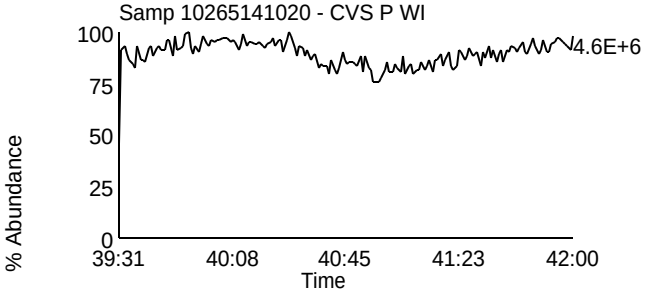
Samp 10265141020 - CVS P WI

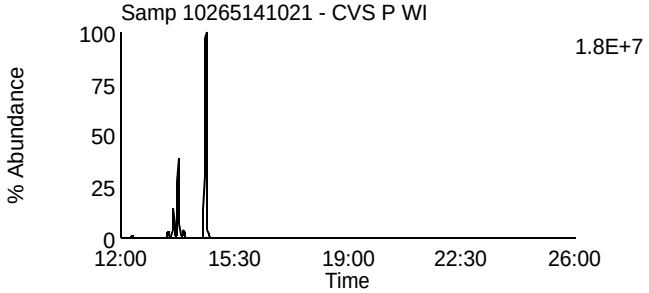


Homologue Group: Tetras

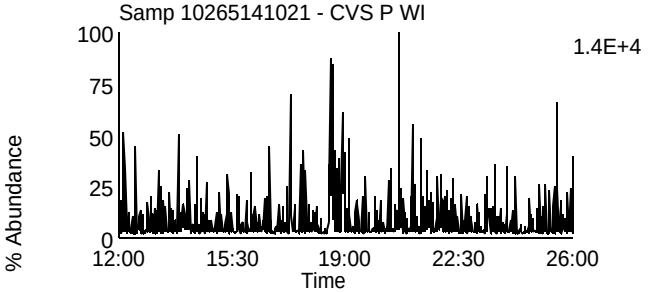
Data File Name: U140513A_10
Date Acquired: 5/13/2014
Sample Description: Samp 10265141021 - CVS P WI

Lab Sample ID: 10265141021
Client Sample ID: MAK138L
Instrument: 10MSHR06 (U)

Data File: U140513A_10 G1 C1 - 303.9016
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G1 C7 - 319.8965
Samp 10265141021 - CVS P WI



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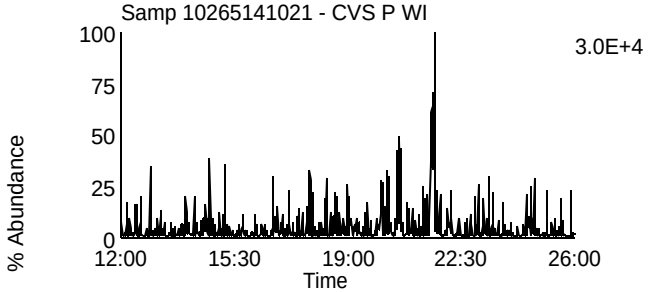
Samp 10265141021 - CVS P WI



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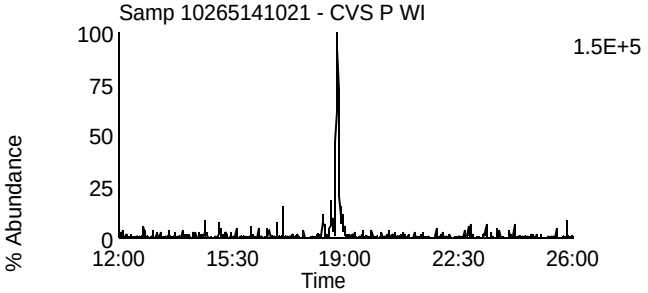
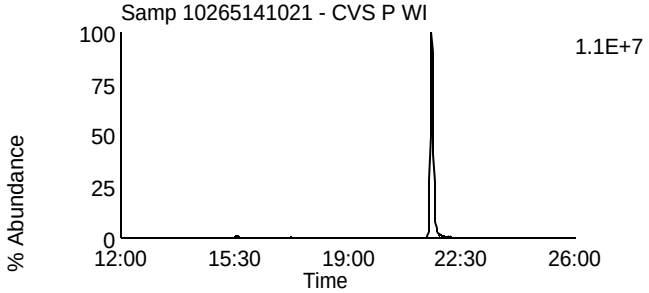
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G1 C3 - 315.9418
Samp 10265141021 - CVS P WI



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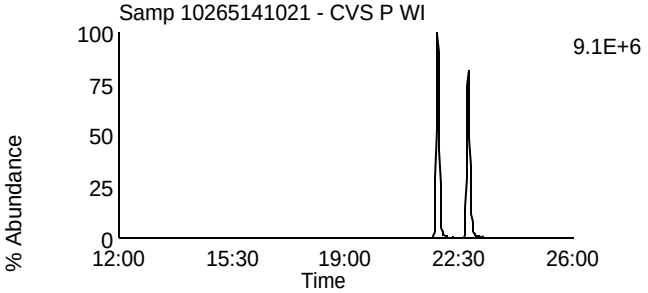
Samp 10265141021 - CVS P WI



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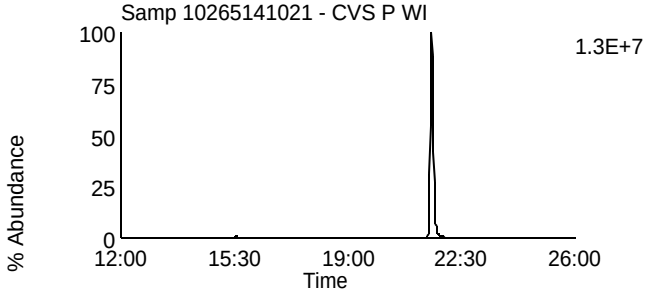
Samp 10265141021 - CVS P WI



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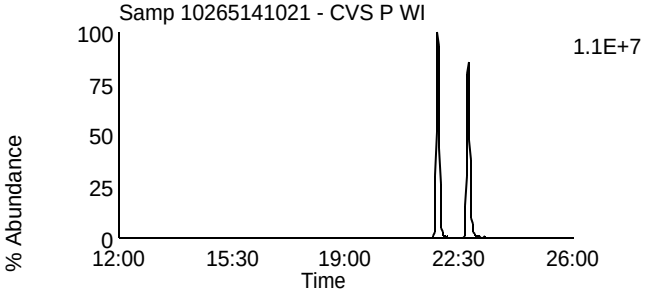
Samp 10265141021 - CVS P WI



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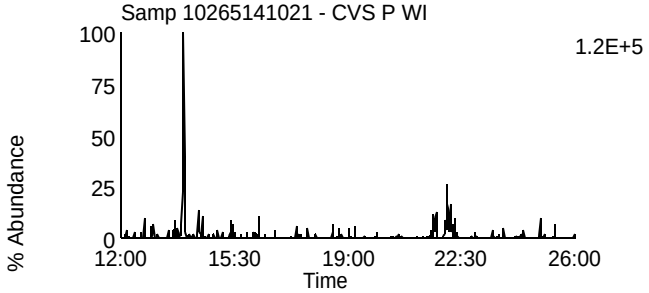
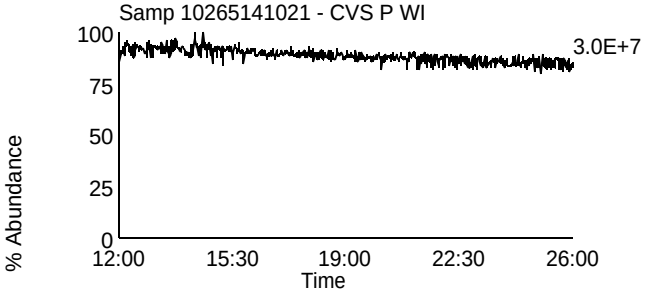
Samp 10265141021 - CVS P WI



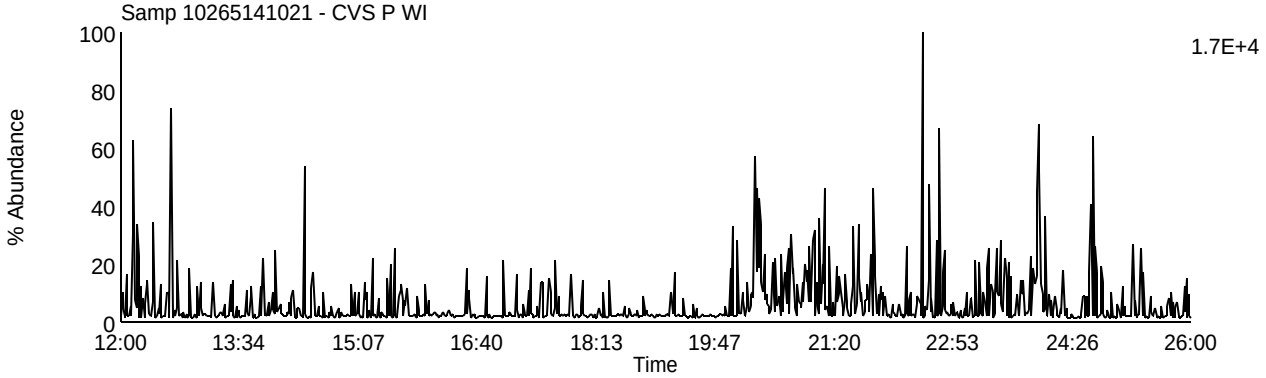
Data File: U140513A_10 G1 C5 - 318.9792
Samp 10265141021 - CVS P WI



Homologue Group: Penta & Cleanup

Data File Name: U140513A_10	Lab Sample ID: 10265141021
Date Acquired: 5/13/2014	Client Sample ID: MAK138L
Sample Description: Samp 10265141021 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513A_10 G1 C12 - 339.8597
Samp 10265141021 - CVS P WI



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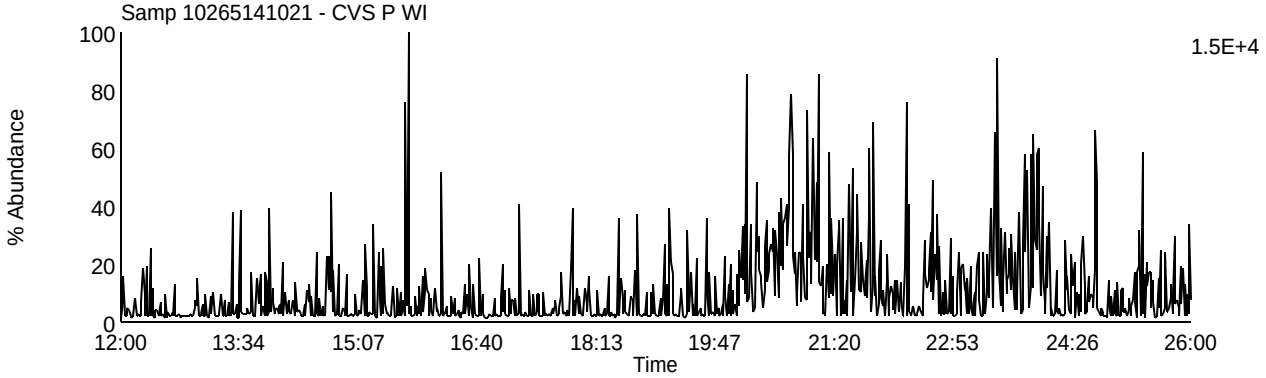
Samp 10265141021 - CVS P WI



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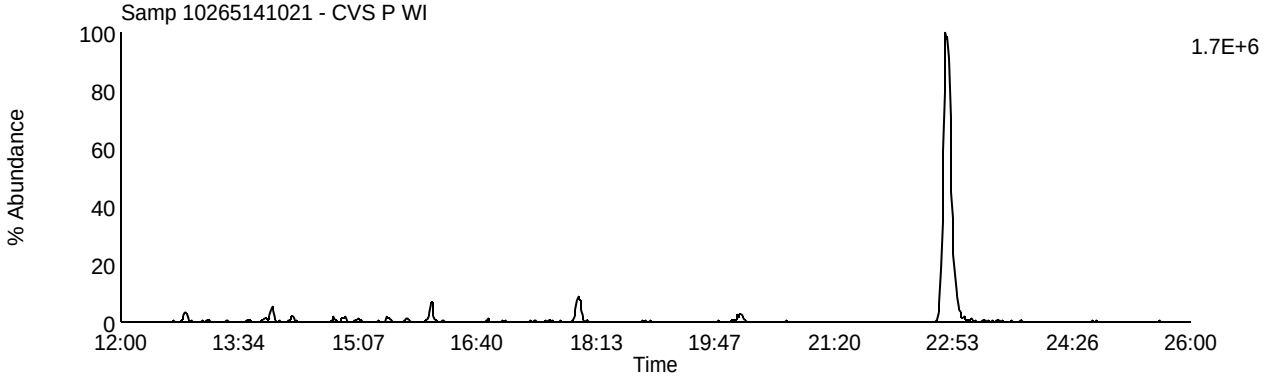
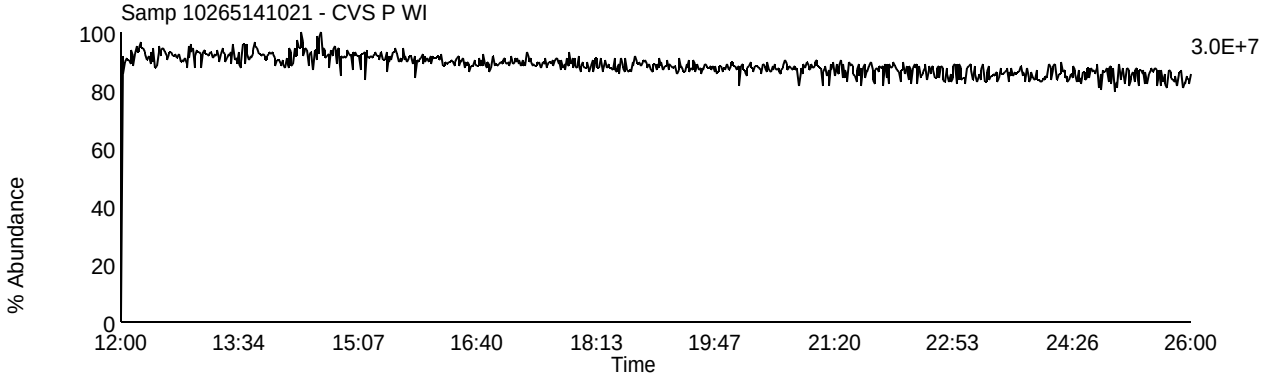
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G1 C5 - 318.9792
Samp 10265141021 - CVS P WI

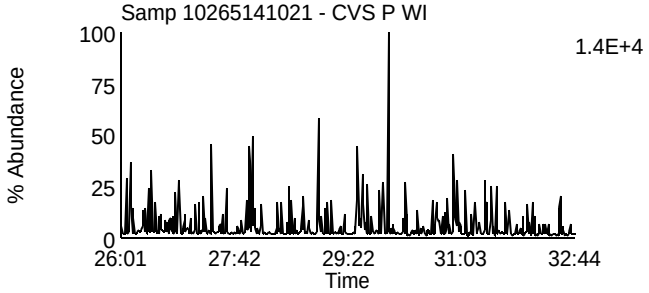


Homologue Group: Pentas

Data File Name: U140513A_10
Date Acquired: 5/13/2014
Sample Description: Samp 10265141021 - CVS P WI

Lab Sample ID: 10265141021
Client Sample ID: MAK138L
Instrument: 10MSHR06 (U)

Data File: U140513A_10 G2 C1 - 339.8597
Samp 10265141021 - CVS P WI



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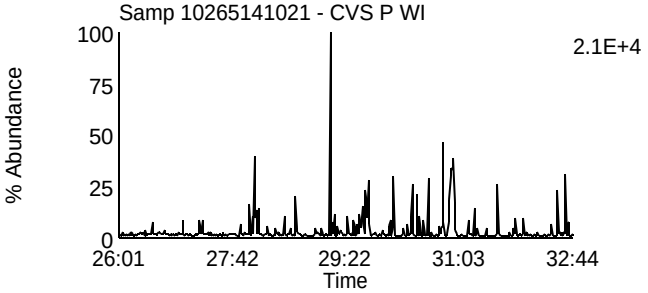
Samp 10265141021 - CVS P WI



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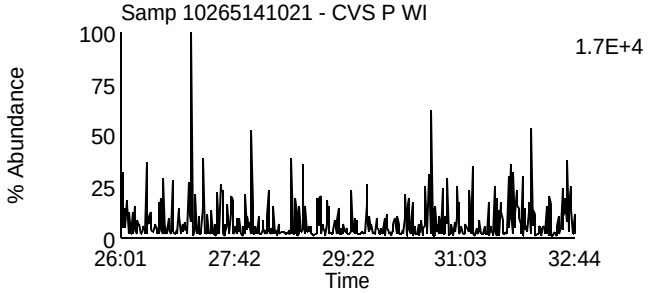
Samp 10265141021 - CVS P WI



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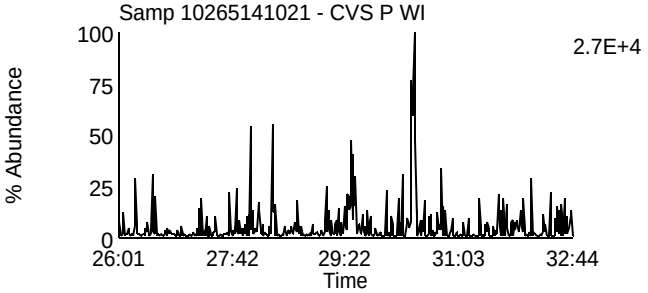
Samp 10265141021 - CVS P WI



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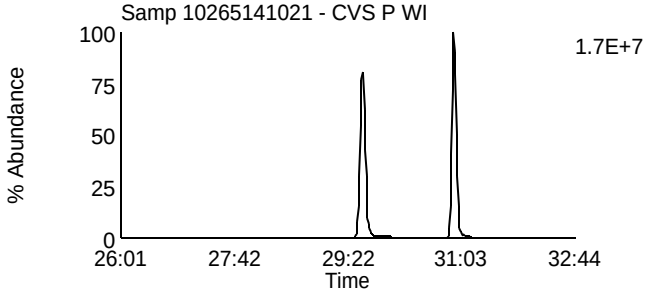
Samp 10265141021 - CVS P WI



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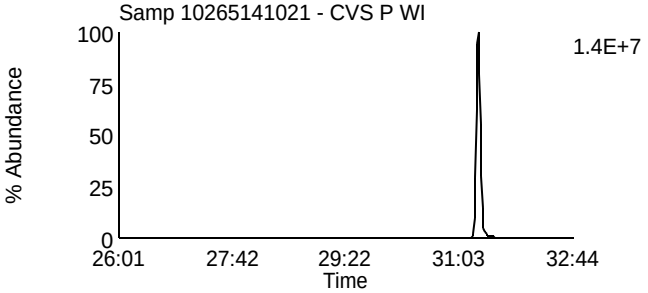
Samp 10265141021 - CVS P WI



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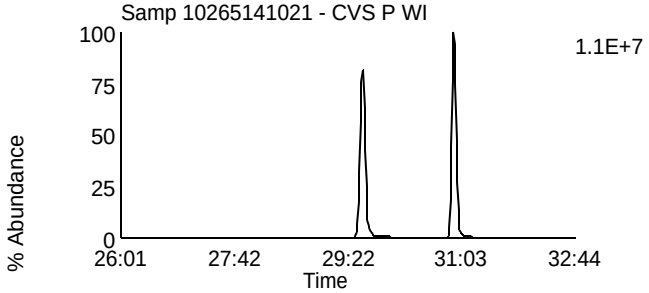
Samp 10265141021 - CVS P WI



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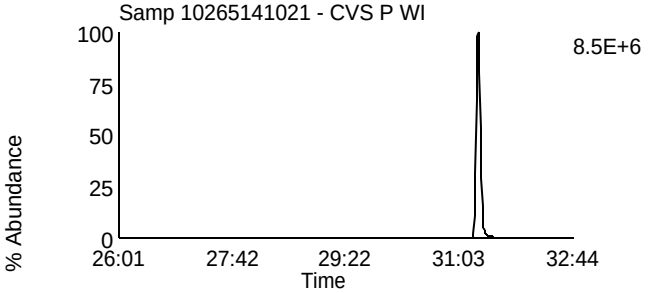
Samp 10265141021 - CVS P WI



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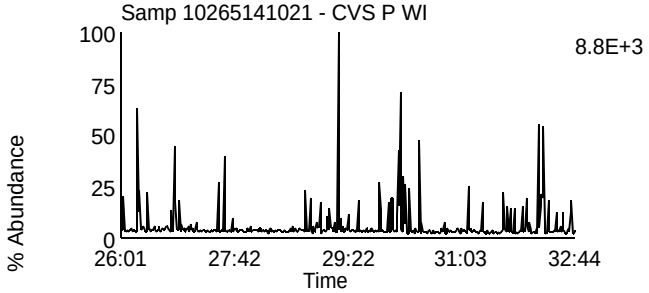
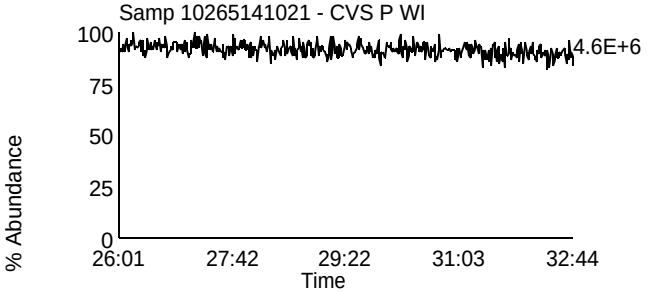
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G2 C6 - 354.9792
Samp 10265141021 - CVS P WI

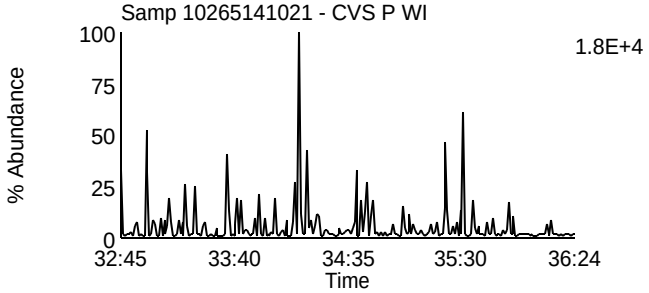


Homologue Group: Hexas

Data File Name: U140513A_10
Date Acquired: 5/13/2014
Sample Description: Samp 10265141021 - CVS P WI

Lab Sample ID: 10265141021
Client Sample ID: MAK138L
Instrument: 10MSHR06 (U)

Data File: U140513A_10 G3 C1 - 373.8207
Samp 10265141021 - CVS P WI



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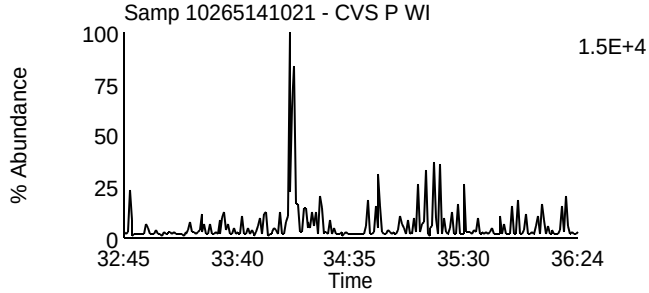
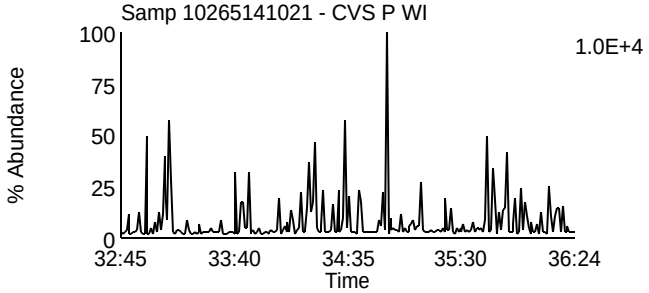
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G3 C2 - 375.8178
Samp 10265141021 - CVS P WI



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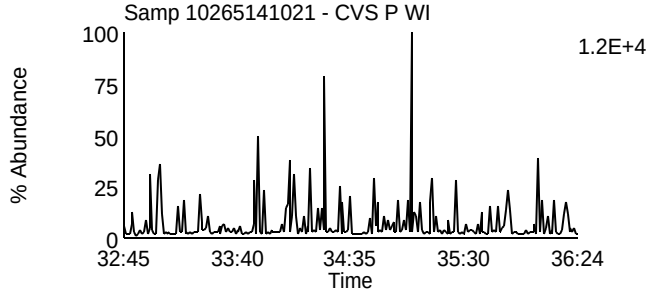
Samp 10265141021 - CVS P WI



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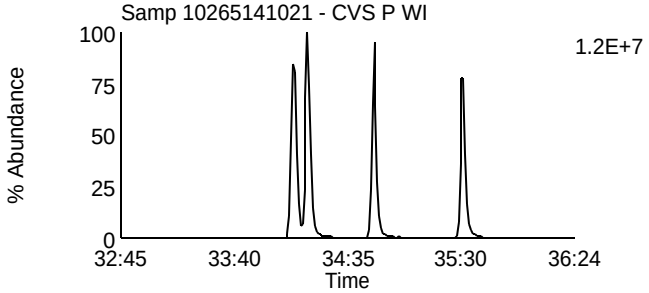
Samp 10265141021 - CVS P WI



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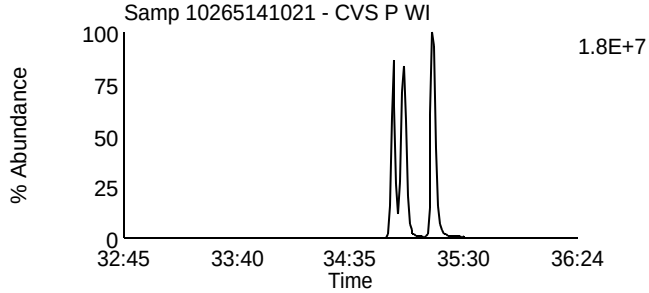
Samp 10265141021 - CVS P WI



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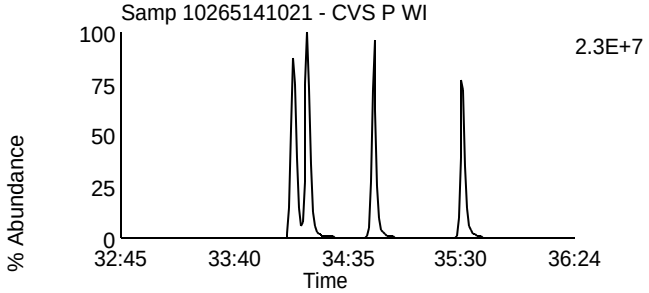
Samp 10265141021 - CVS P WI



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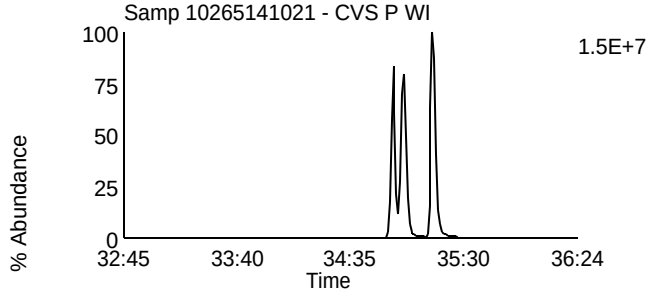

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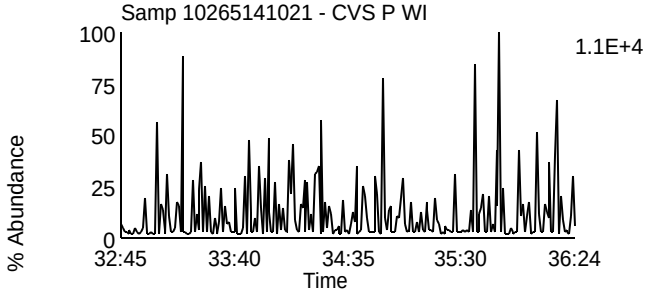
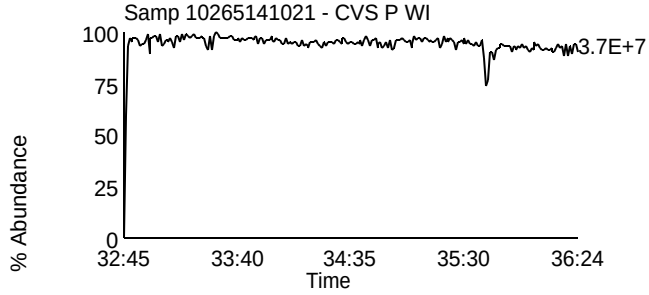
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G3 C3 - 380.976
Samp 10265141021 - CVS P WI

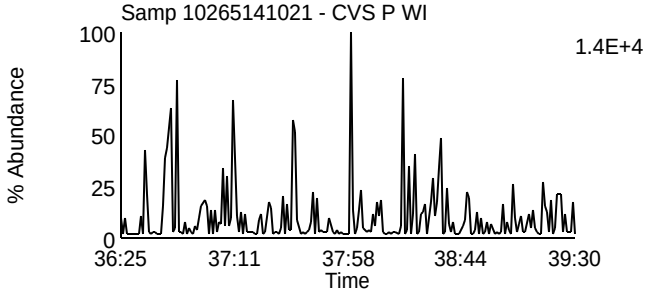


Homologue Group: Heptas

Data File Name: U140513A_10
Date Acquired: 5/13/2014
Sample Description: Samp 10265141021 - CVS P WI

Lab Sample ID: 10265141021
Client Sample ID: MAK138L
Instrument: 10MSHR06 (U)

Data File: U140513A_10 G4 C3 - 407.7818
Samp 10265141021 - CVS P WI



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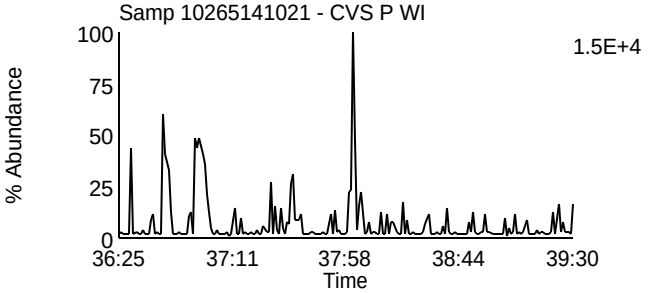
Samp 10265141021 - CVS P WI



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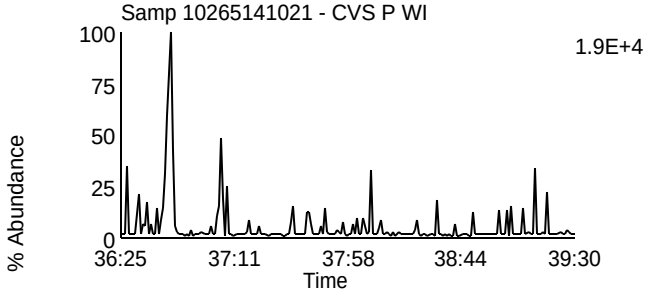
Samp 10265141021 - CVS P WI



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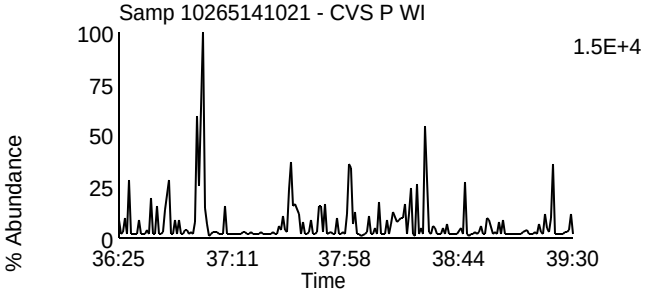
Samp 10265141021 - CVS P WI



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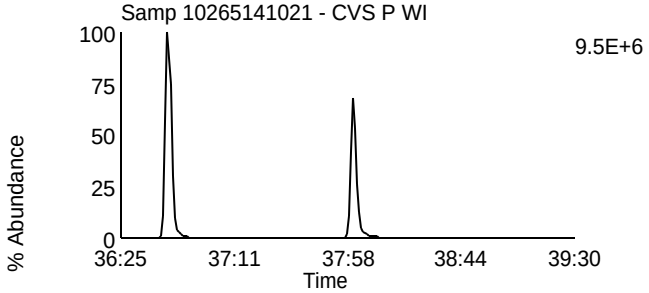
Samp 10265141021 - CVS P WI



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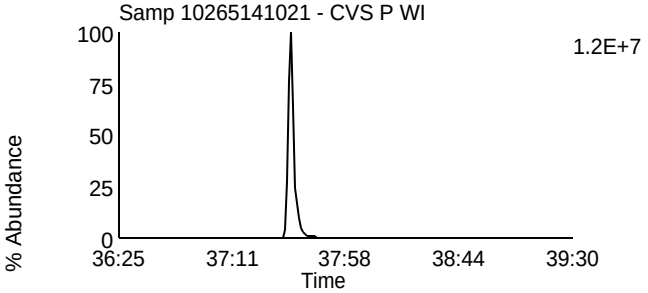
Samp 10265141021 - CVS P WI



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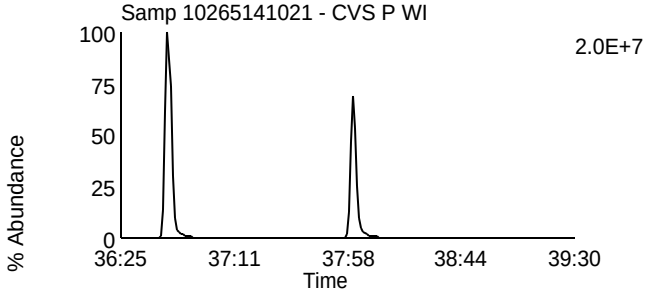
Samp 10265141021 - CVS P WI



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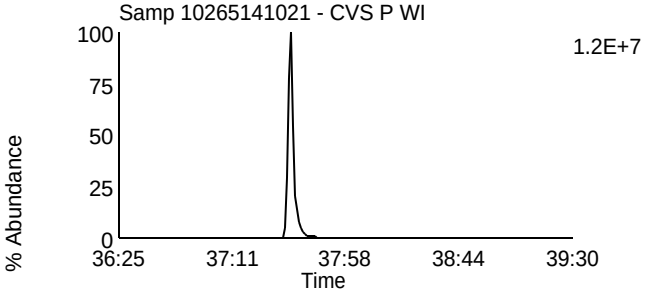

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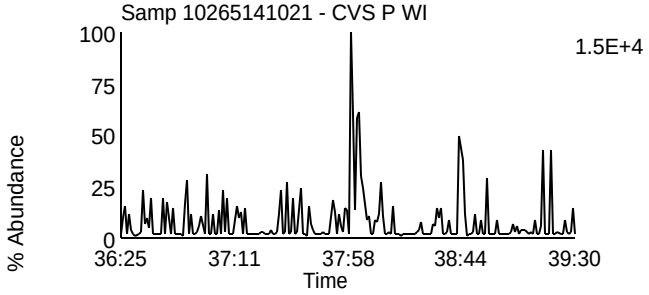
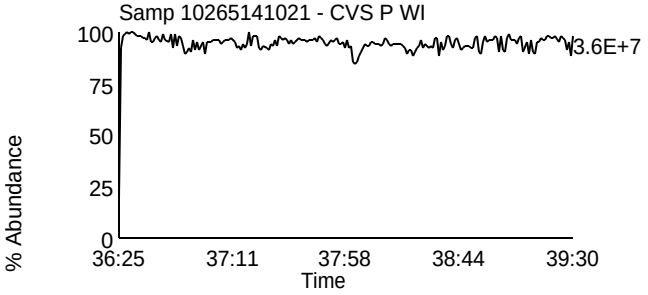
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G4 C1 - 380.976
Samp 10265141021 - CVS P WI

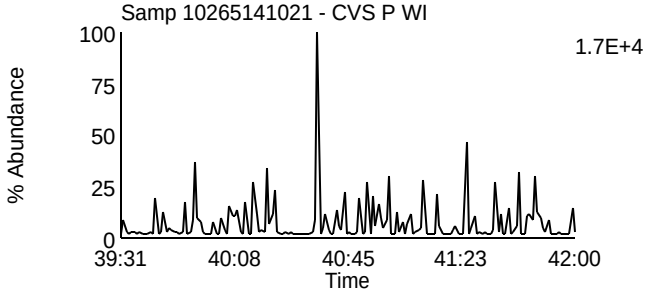


Homologue Group: Octas

Data File Name: U140513A_10
Date Acquired: 5/13/2014
Sample Description: Samp 10265141021 - CVS P WI

Lab Sample ID: 10265141021
Client Sample ID: MAK138L
Instrument: 10MSHR06 (U)

Data File: U140513A_10 G5 C4 - 441.7428
Samp 10265141021 - CVS P WI



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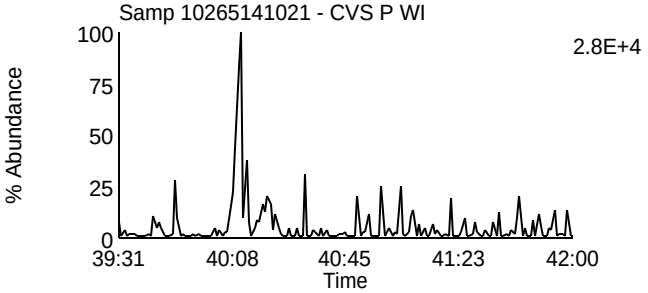
Samp 10265141021 - CVS P WI



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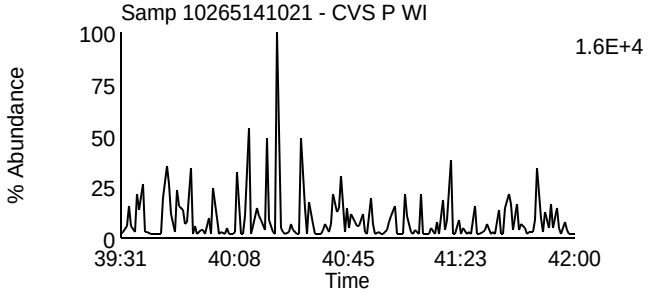
Samp 10265141021 - CVS P WI



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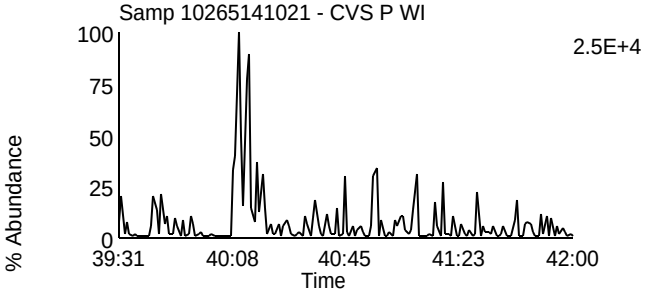
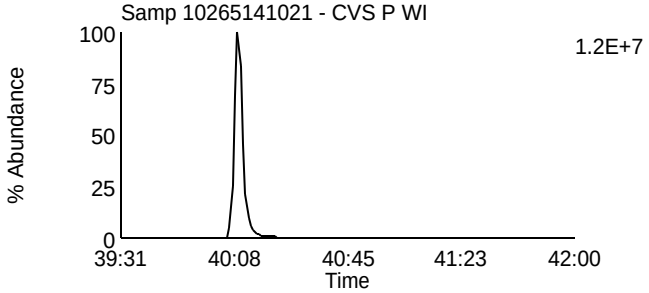
Samp 10265141021 - CVS P WI



Data File: U140513A_10 G5 C11 - 469.7779
Samp 10265141021 - CVS P WI



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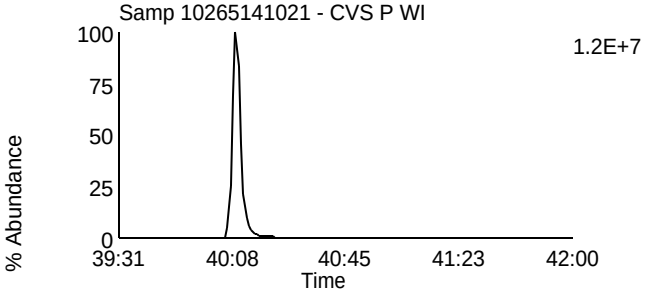
Samp 10265141021 - CVS P WI



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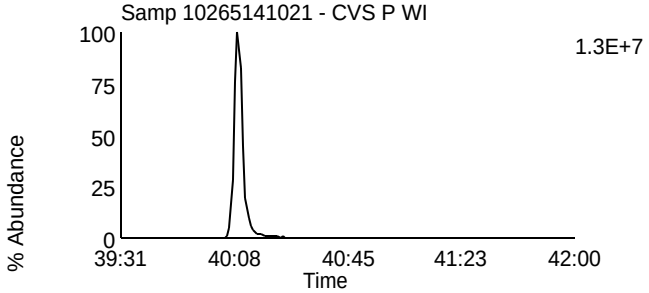
Samp 10265141021 - CVS P WI



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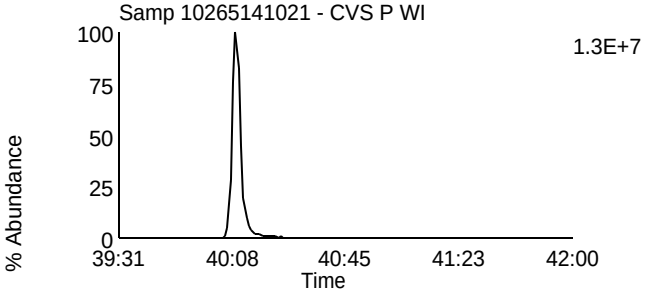

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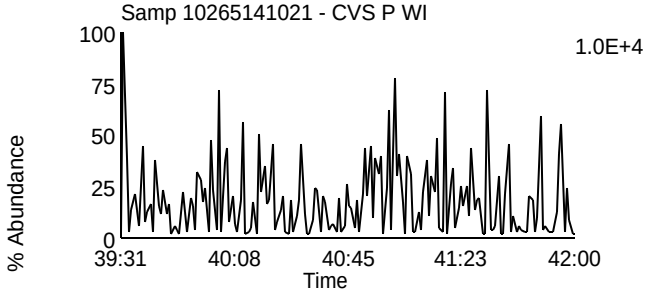
Samp 10265141021 - CVS P WI



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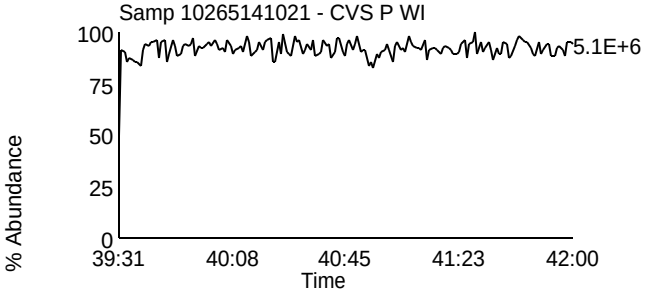
Samp 10265141021 - CVS P WI

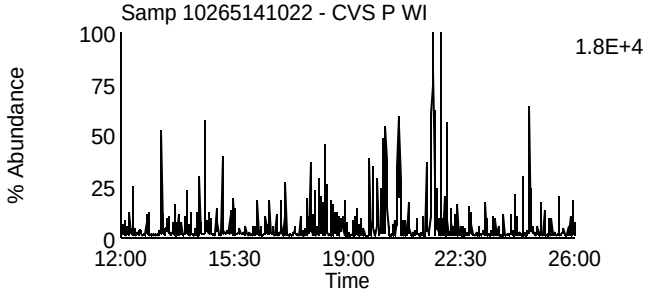


Homologue Group: Tetras

Data File Name: U140513A_11
Date Acquired: 5/13/2014
Sample Description: Samp 10265141022 - CVS P WI

Lab Sample ID: 10265141022
Client Sample ID: MAK121C
Instrument: 10MSHR06 (U)

Data File: U140513A_11 G1 C1 - 303.9016
Samp 10265141022 - CVS P WI



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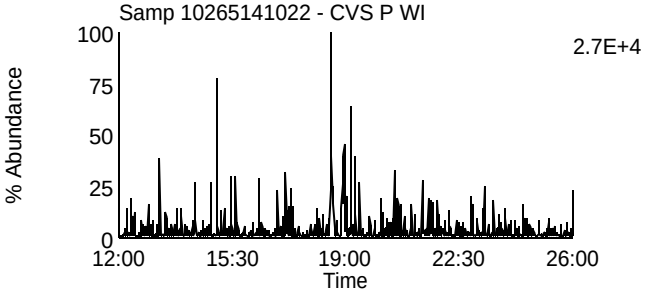
Samp 10265141022 - CVS P WI



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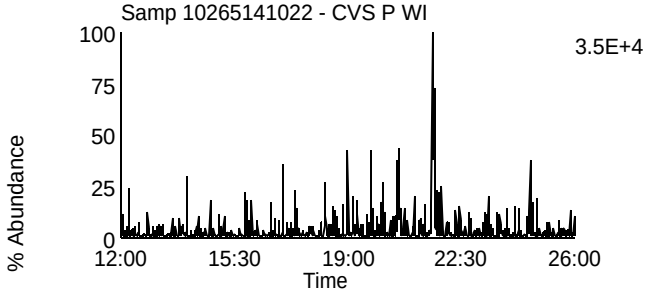
Samp 10265141022 - CVS P WI



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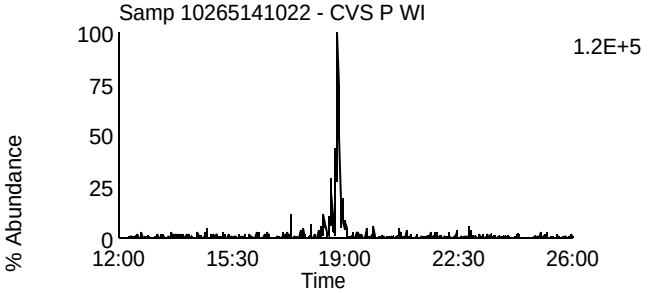
Samp 10265141022 - CVS P WI



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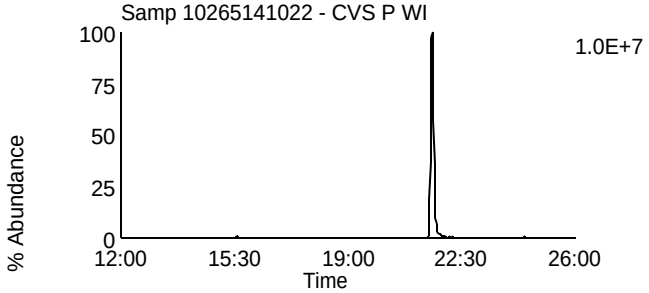
Samp 10265141022 - CVS P WI



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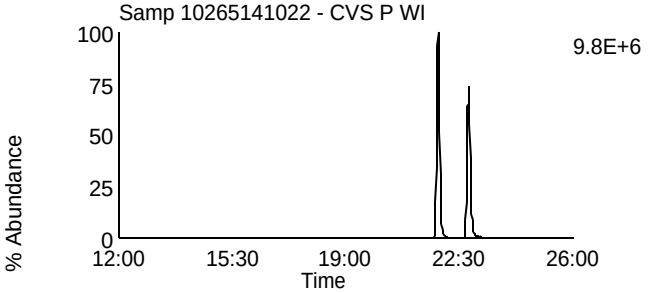
Samp 10265141022 - CVS P WI



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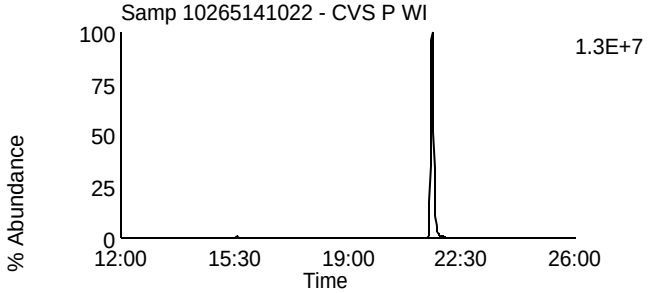

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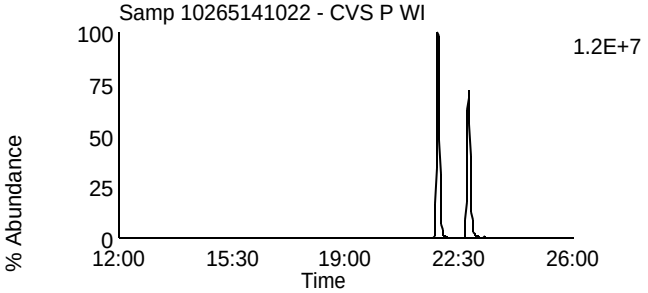
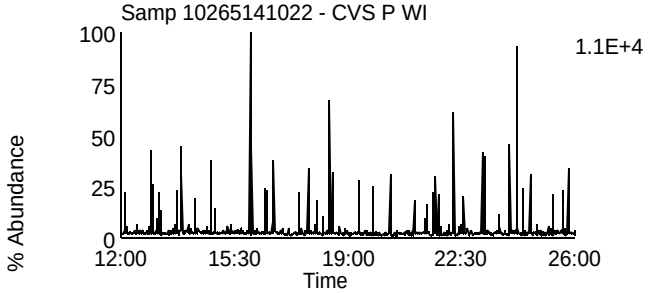
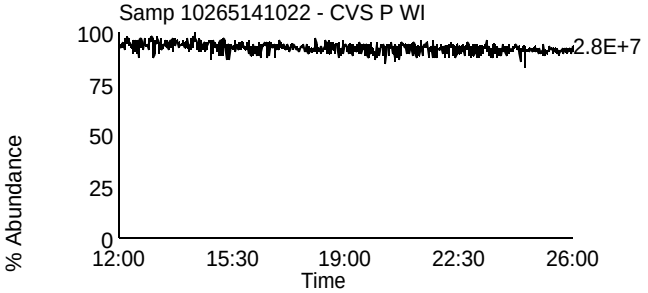


Data File: U140513A_11 G1 C14 - 375.8364
Samp 10265141022 - CVS P WI



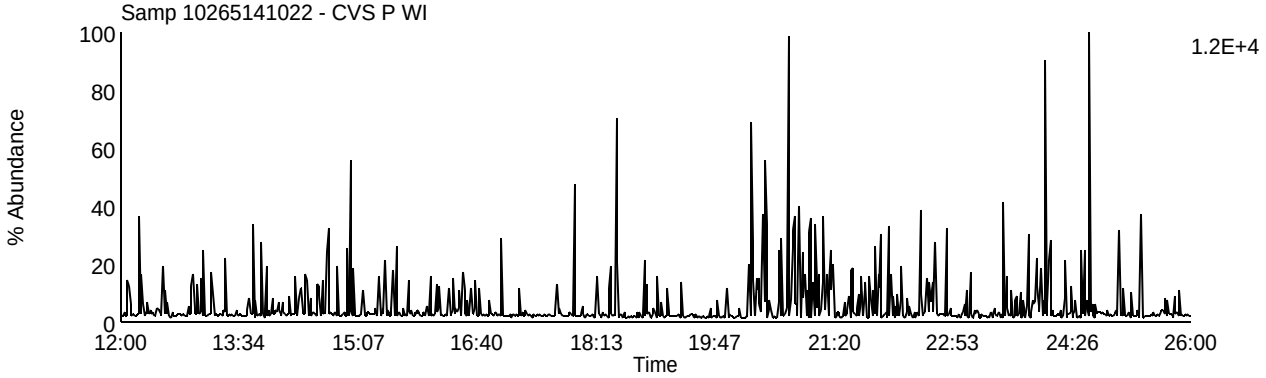
Data File: U140513A_11 G1 C5 - 318.9792
Samp 10265141022 - CVS P WI



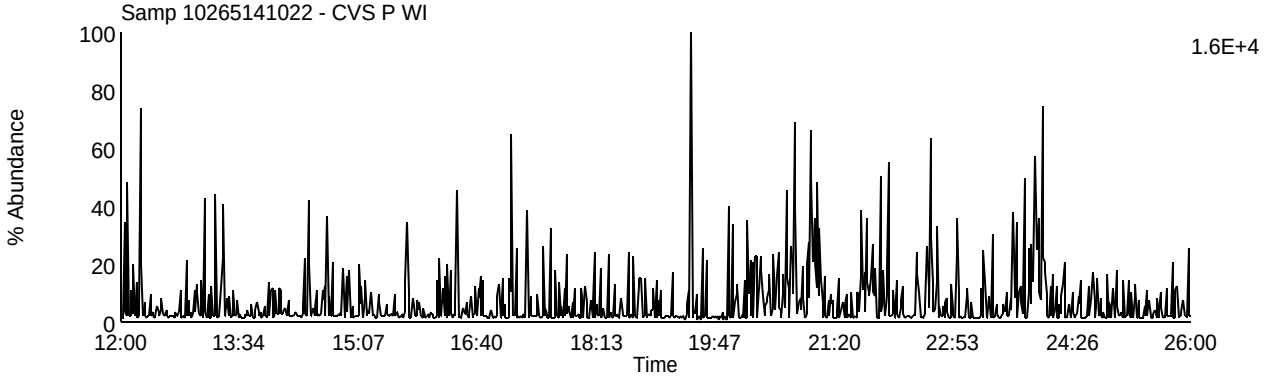
Homologue Group: Penta & Cleanup

Data File Name: U140513A_11	Lab Sample ID: 10265141022
Date Acquired: 5/13/2014	Client Sample ID: MAK121C
Sample Description: Samp 10265141022 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513A_11 G1 C12 - 339.8597
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G1 C13 - 341.8567
Samp 10265141022 - CVS P WI



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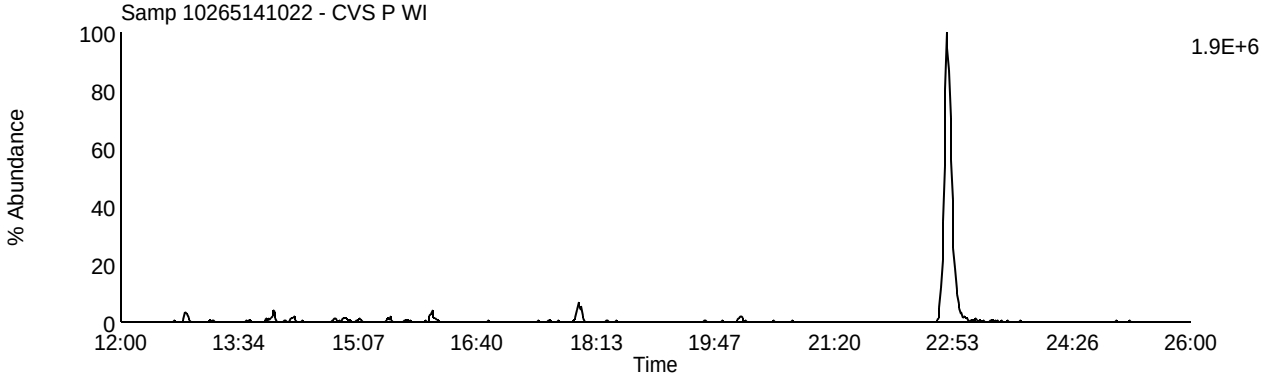
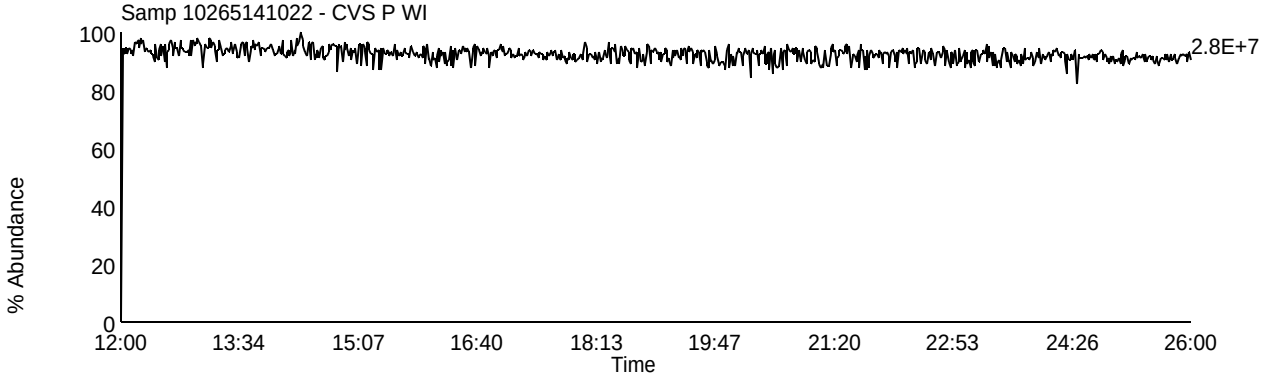
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G1 C5 - 318.9792
Samp 10265141022 - CVS P WI

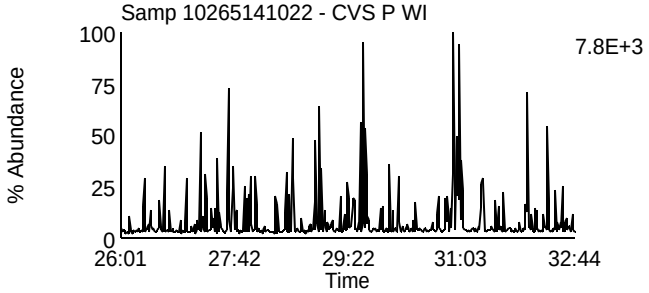


Homologue Group: Pentas

Data File Name: U140513A_11
Date Acquired: 5/13/2014
Sample Description: Samp 10265141022 - CVS P WI

Lab Sample ID: 10265141022
Client Sample ID: MAK121C
Instrument: 10MSHR06 (U)

Data File: U140513A_11 G2 C1 - 339.8597
Samp 10265141022 - CVS P WI



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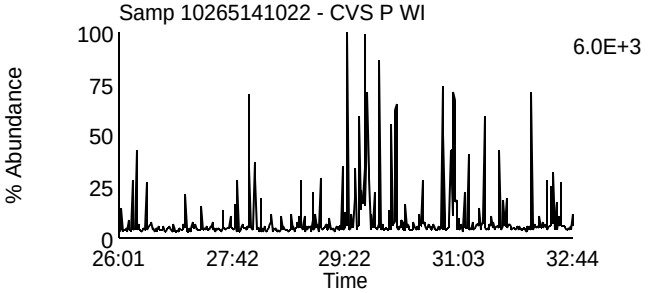
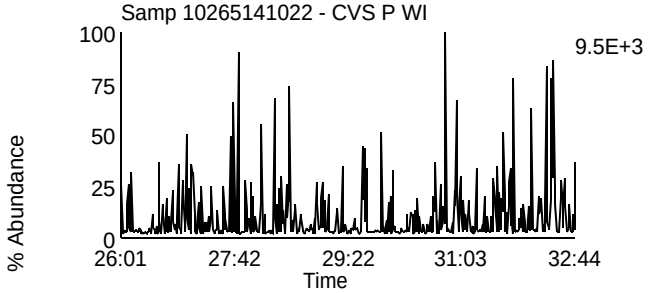
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G2 C2 - 341.8567
Samp 10265141022 - CVS P WI



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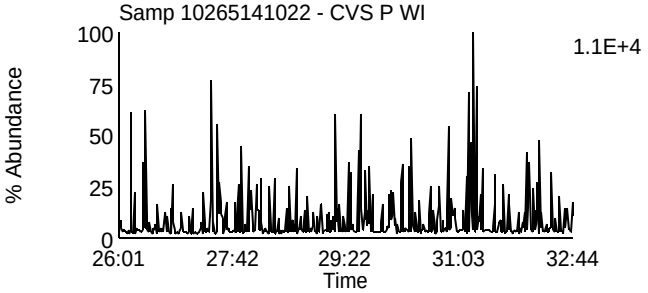
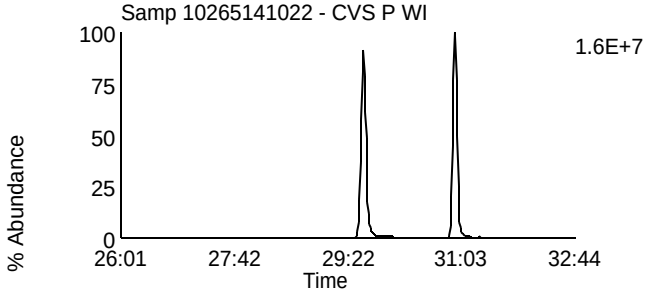
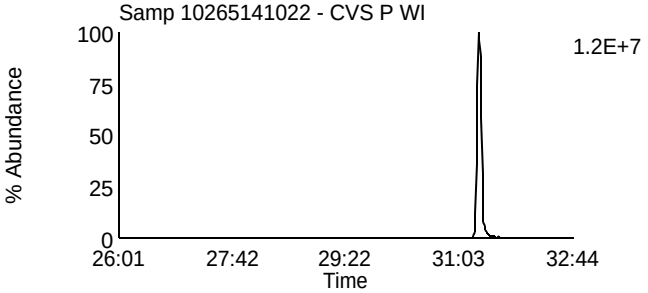
Samp 10265141022 - CVS P WI



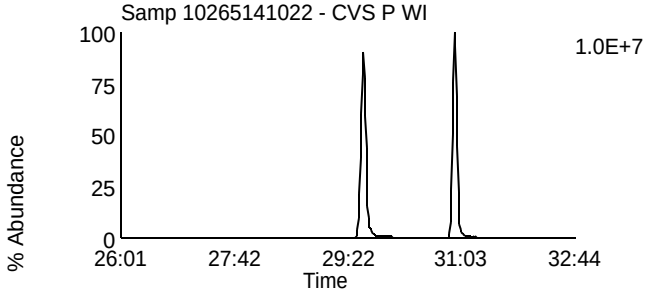
Data File: U140513A_11 G2 C3 - 351.8999
Samp 10265141022 - CVS P WI



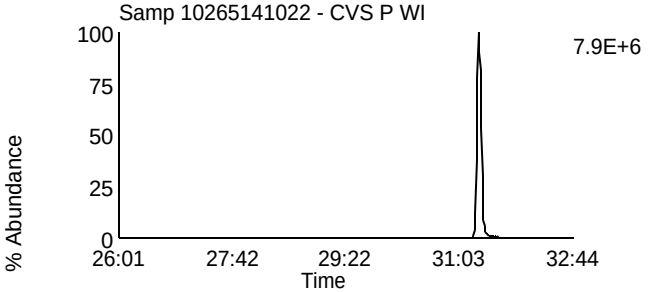
Data File: U140513A_11 G2 C10 - 367.8948
Samp 10265141022 - CVS P WI



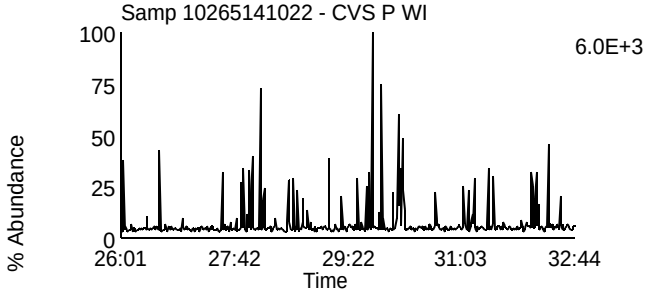
Data File: U140513A_11 G2 C5 - 353.8969
Samp 10265141022 - CVS P WI



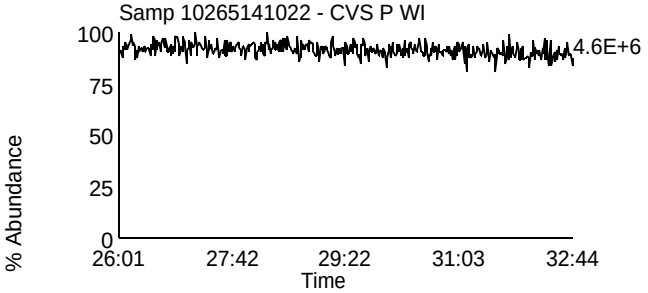
Data File: U140513A_11 G2 C11 - 369.8918
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G2 C12 - 409.7974
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G2 C6 - 354.9792
Samp 10265141022 - CVS P WI

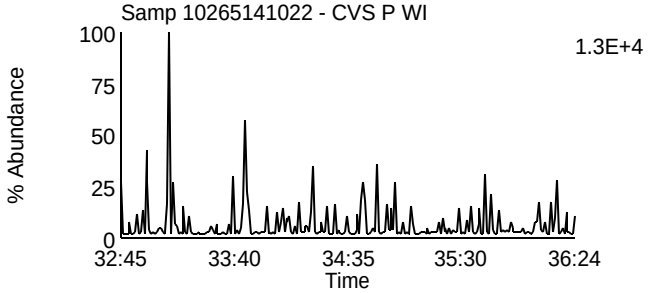


Homologue Group: Hexas

Data File Name: U140513A_11
Date Acquired: 5/13/2014
Sample Description: Samp 10265141022 - CVS P WI

Lab Sample ID: 10265141022
Client Sample ID: MAK121C
Instrument: 10MSHR06 (U)

Data File: U140513A_11 G3 C1 - 373.8207
Samp 10265141022 - CVS P WI



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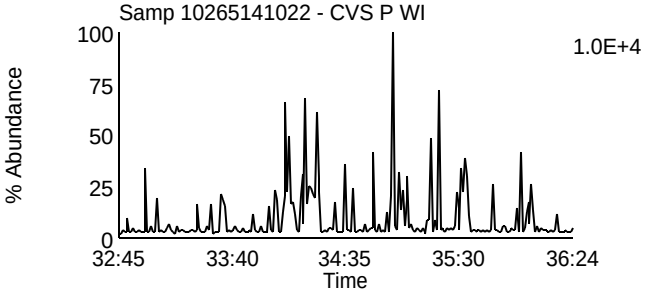
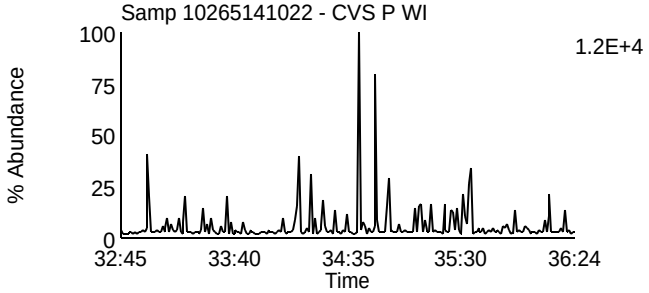
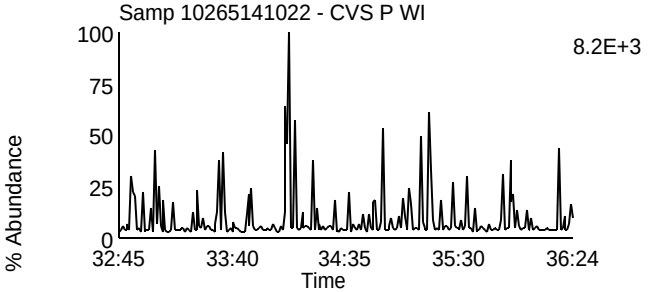
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G3 C2 - 375.8178
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G3 C8 - 391.8127
Samp 10265141022 - CVS P WI



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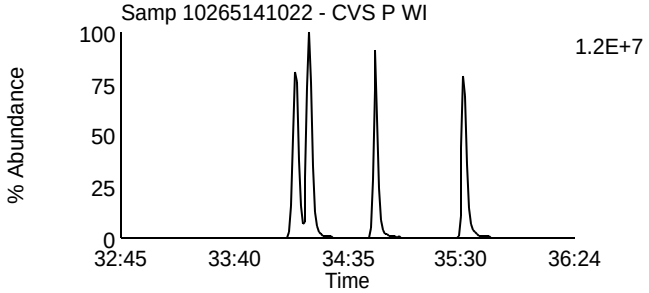
Samp 10265141022 - CVS P WI



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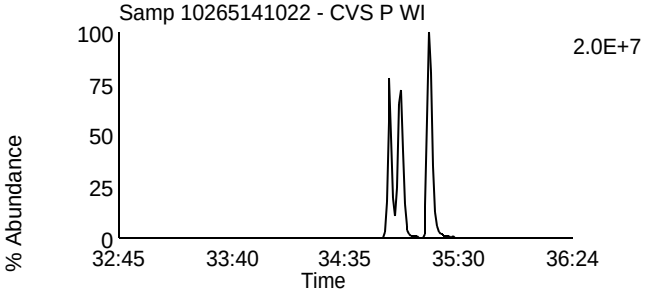
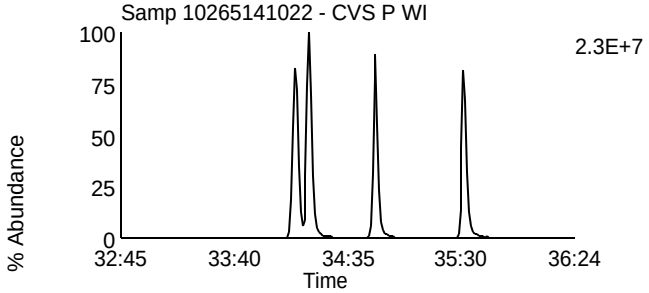
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G3 C6 - 385.861
Samp 10265141022 - CVS P WI



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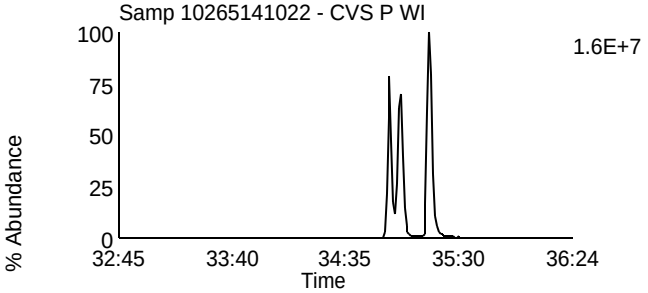
Samp 10265141022 - CVS P WI



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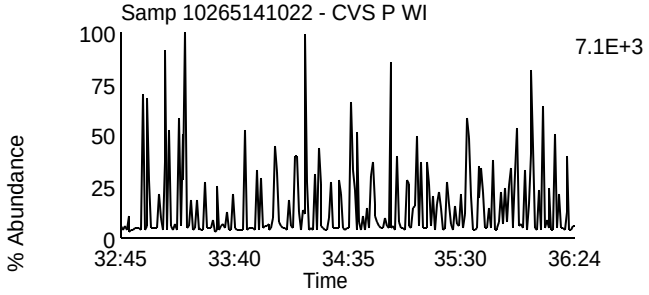
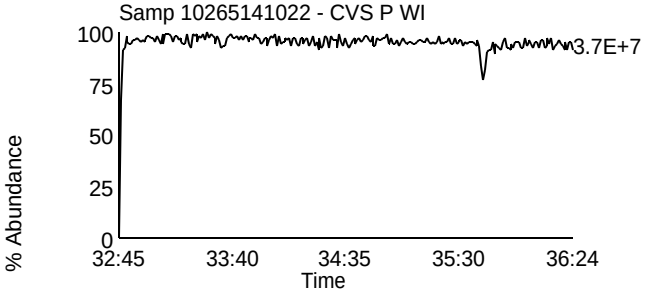
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G3 C3 - 380.976
Samp 10265141022 - CVS P WI

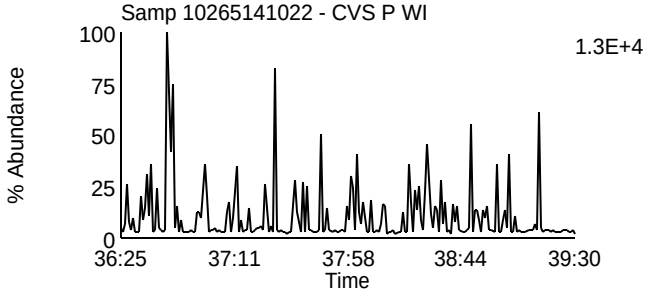


Homologue Group: Heptas

Data File Name: U140513A_11
Date Acquired: 5/13/2014
Sample Description: Samp 10265141022 - CVS P WI

Lab Sample ID: 10265141022
Client Sample ID: MAK121C
Instrument: 10MSHR06 (U)

Data File: U140513A_11 G4 C3 - 407.7818
Samp 10265141022 - CVS P WI



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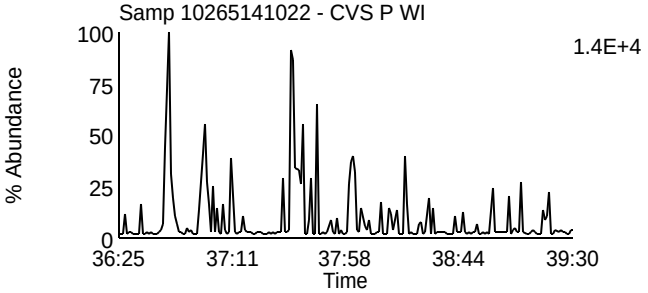
Samp 10265141022 - CVS P WI



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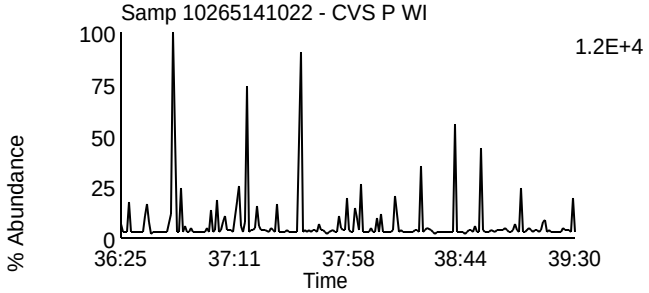
Samp 10265141022 - CVS P WI



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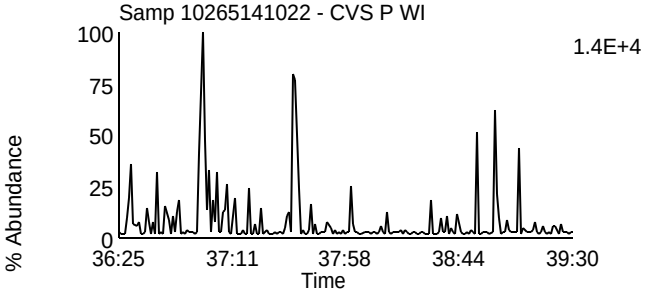
Samp 10265141022 - CVS P WI



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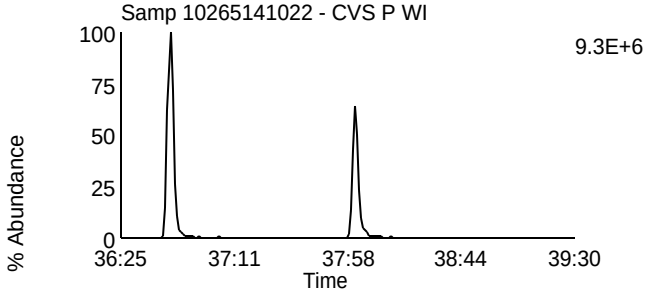
Samp 10265141022 - CVS P WI



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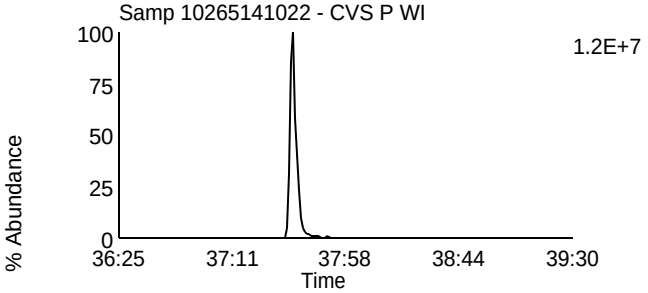
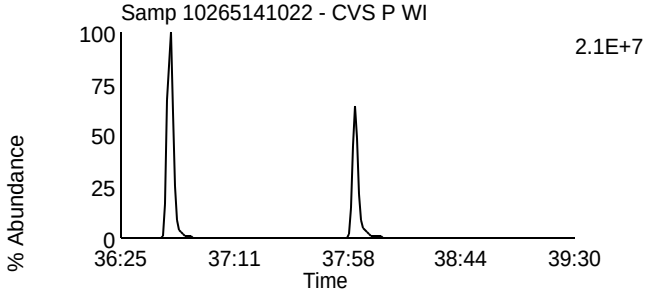
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G4 C7 - 419.822
Samp 10265141022 - CVS P WI



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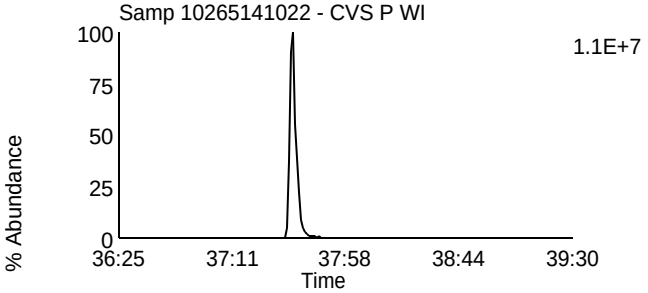
Samp 10265141022 - CVS P WI



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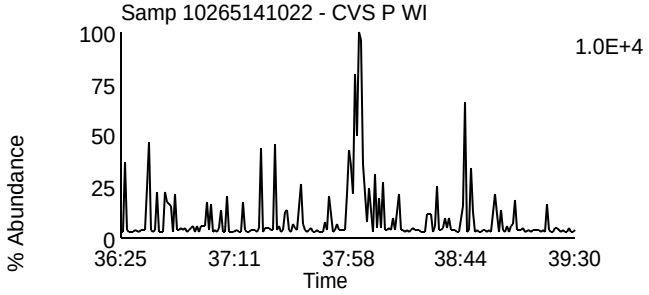
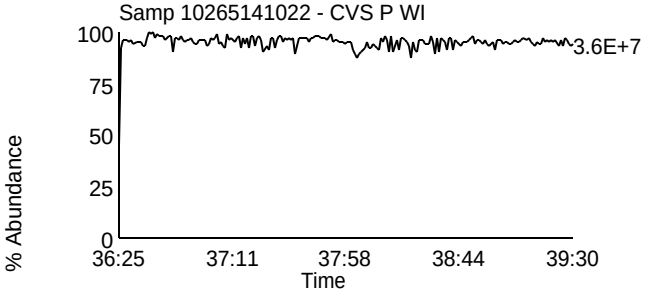
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G4 C1 - 380.976
Samp 10265141022 - CVS P WI

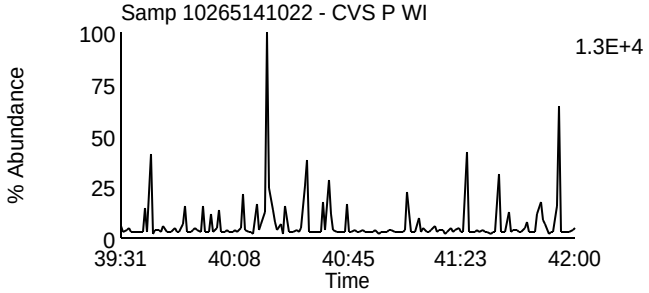


Homologue Group: Octas

Data File Name: U140513A_11
Date Acquired: 5/13/2014
Sample Description: Samp 10265141022 - CVS P WI

Lab Sample ID: 10265141022
Client Sample ID: MAK121C
Instrument: 10MSHR06 (U)

Data File: U140513A_11 G5 C4 - 441.7428
Samp 10265141022 - CVS P WI



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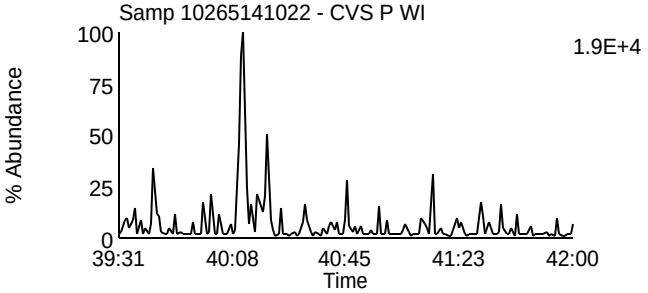
Samp 10265141022 - CVS P WI



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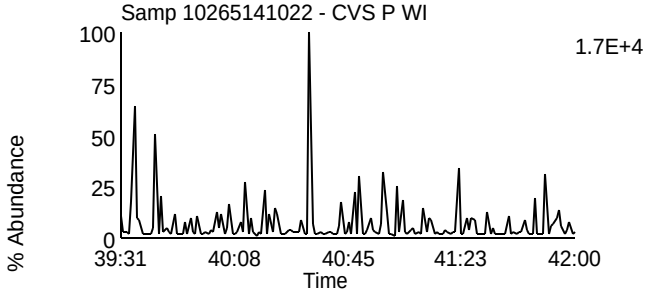
Samp 10265141022 - CVS P WI



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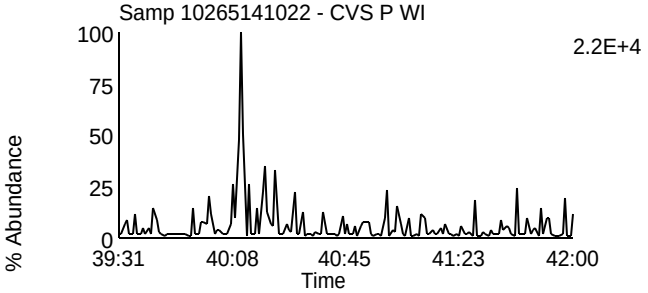
Samp 10265141022 - CVS P WI



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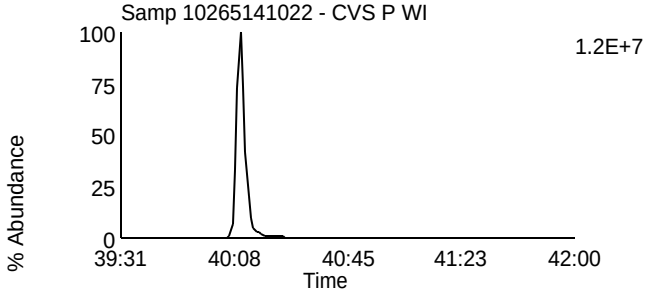
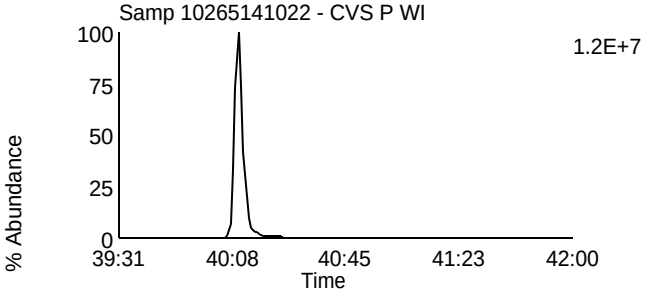
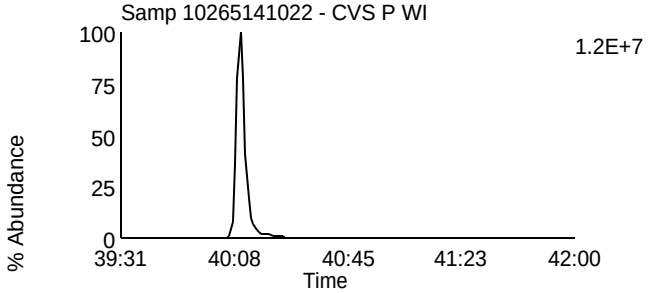
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G5 C11 - 469.7779
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G5 C12 - 471.7749
Samp 10265141022 - CVS P WI



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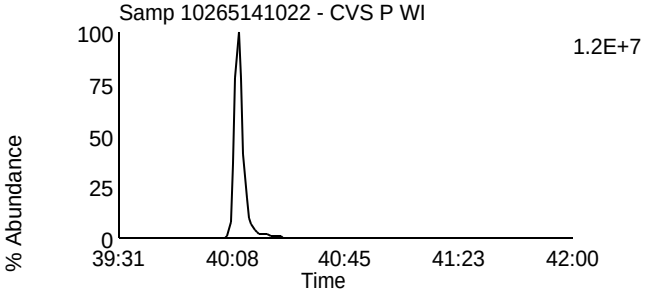
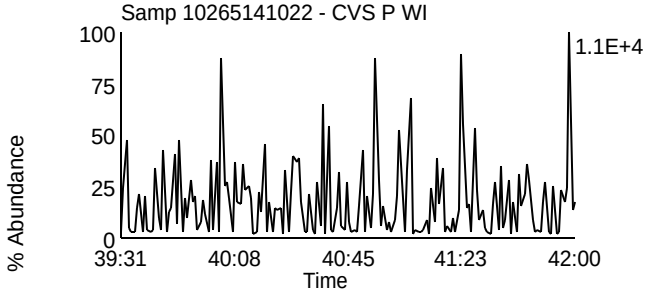
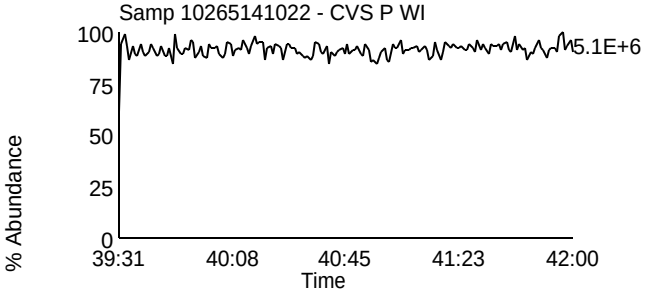
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G5 C13 - 513.6775
Samp 10265141022 - CVS P WI



Data File: U140513A_11 G5 C2 - 430.9728
Samp 10265141022 - CVS P WI

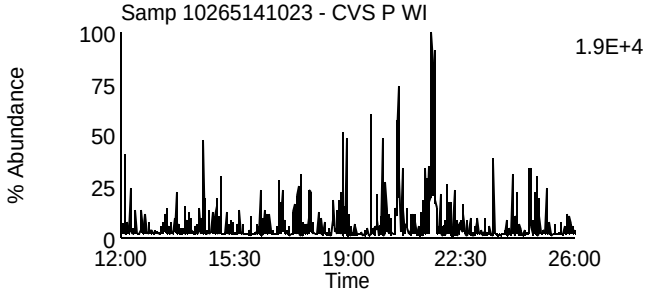


Homologue Group: Tetras

Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

Data File: U140513A_12 G1 C1 - 303.9016
Samp 10265141023 - CVS P WI



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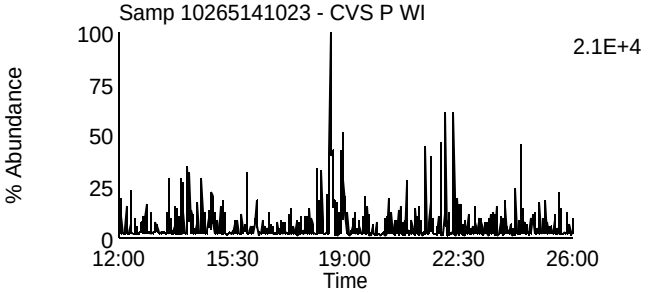
Samp 10265141023 - CVS P WI



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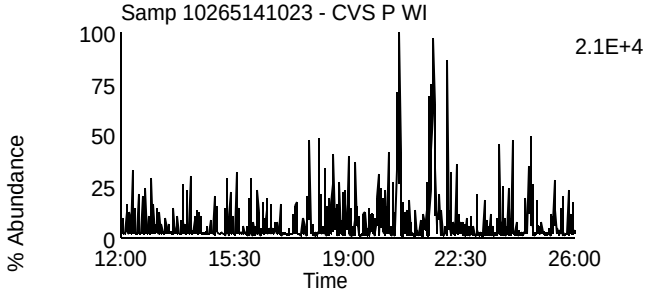
Samp 10265141023 - CVS P WI



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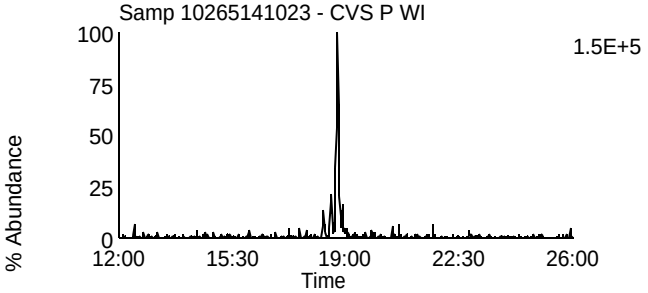
Samp 10265141023 - CVS P WI



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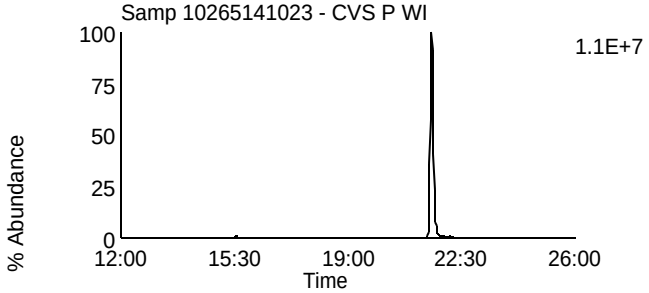
Samp 10265141023 - CVS P WI



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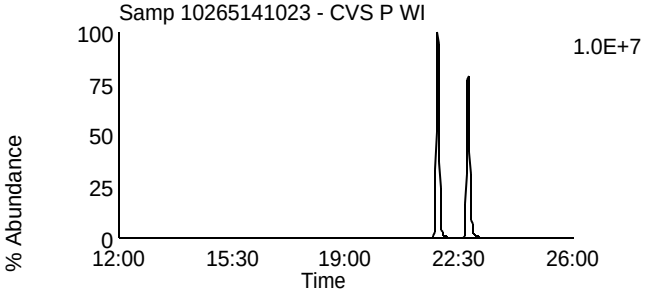
Samp 10265141023 - CVS P WI



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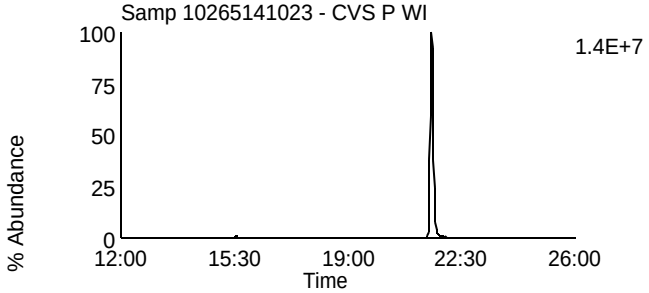
Samp 10265141023 - CVS P WI



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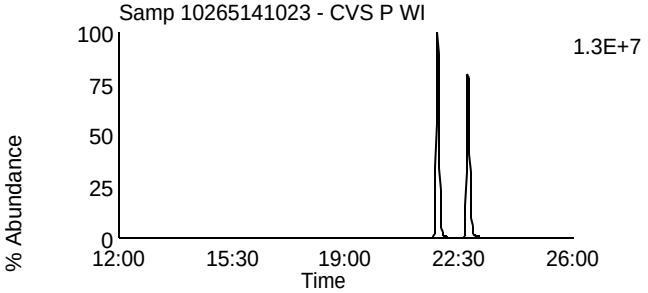
Samp 10265141023 - CVS P WI



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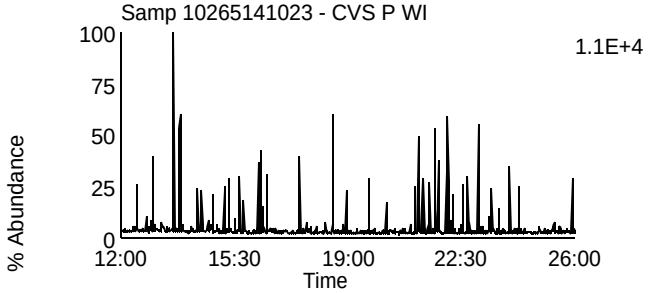
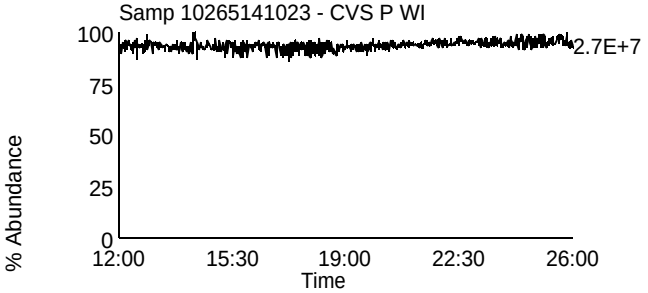
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G1 C5 - 318.9792
Samp 10265141023 - CVS P WI

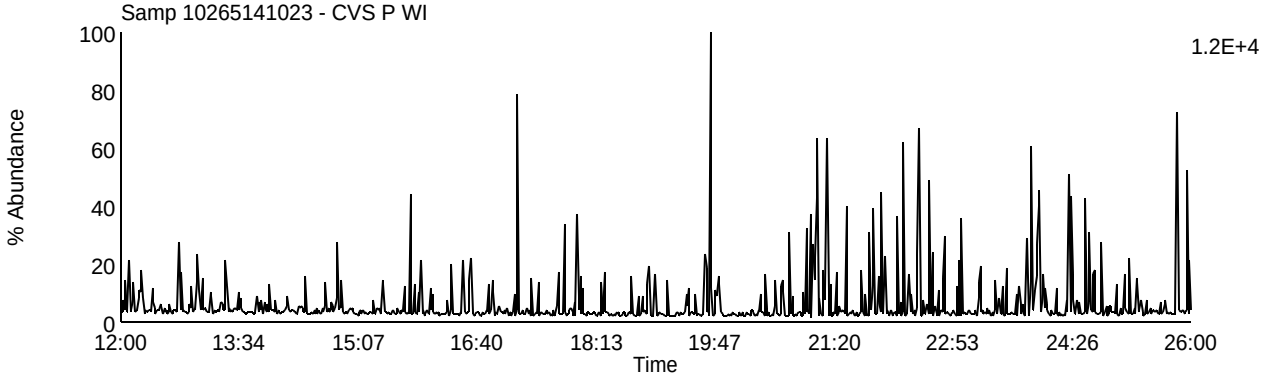


Homologue Group: Penta & Cleanup

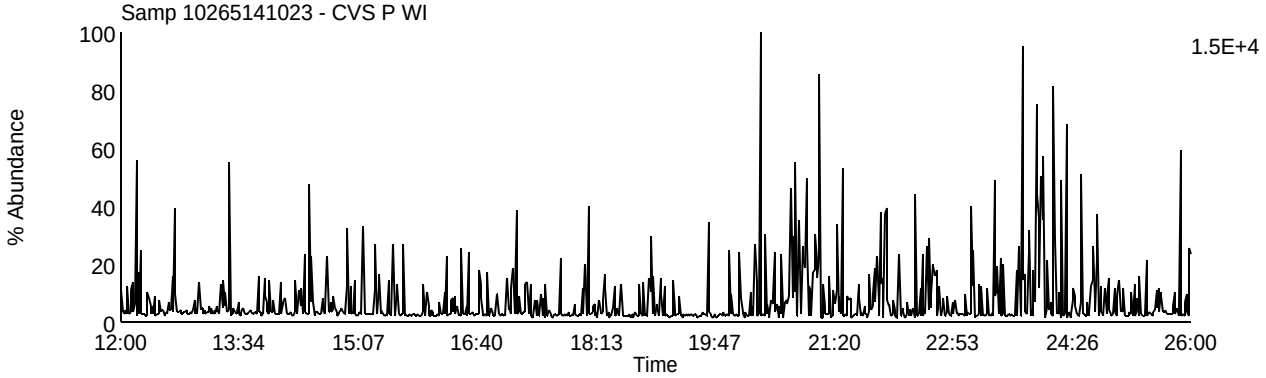
Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

Data File: U140513A_12 G1 C12 - 339.8597
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G1 C13 - 341.8567
Samp 10265141023 - CVS P WI



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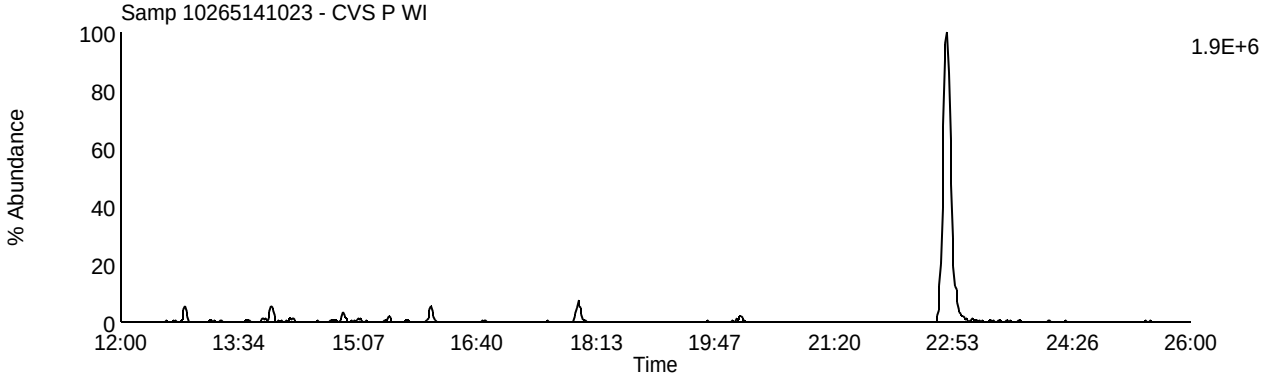
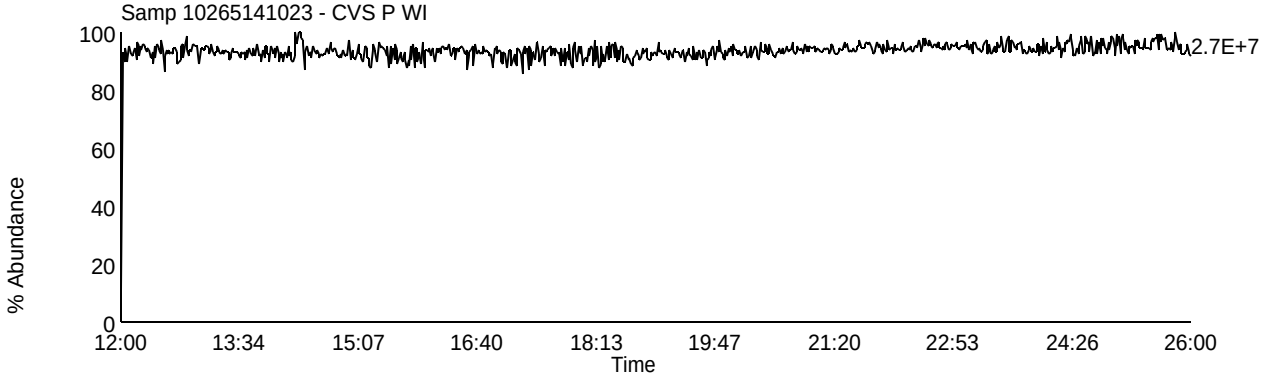
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G1 C5 - 318.9792
Samp 10265141023 - CVS P WI

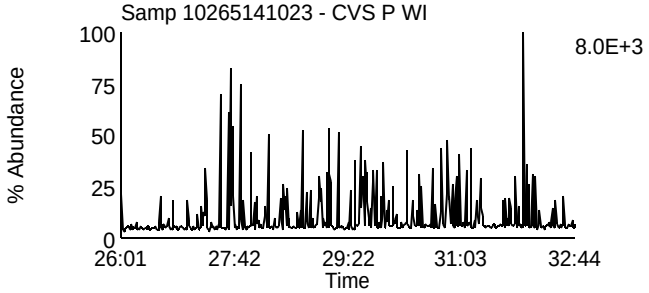


Homologue Group: Pentas

Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

Data File: U140513A_12 G2 C1 - 339.8597
Samp 10265141023 - CVS P WI



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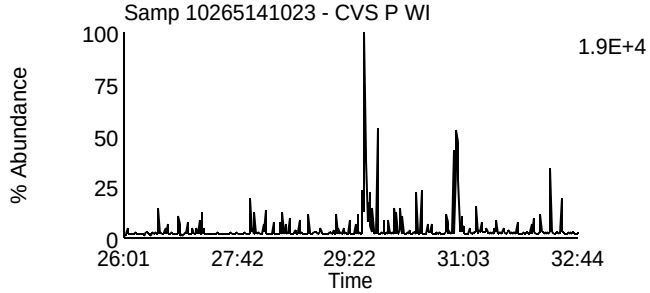
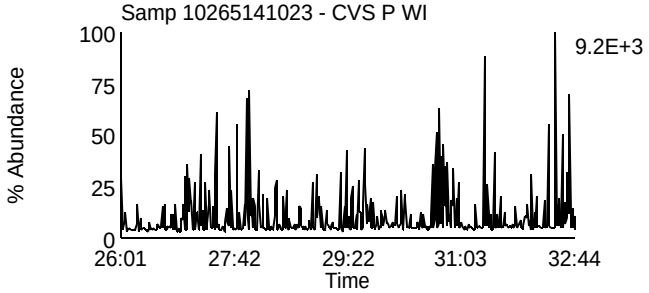
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G2 C2 - 341.8567
Samp 10265141023 - CVS P WI



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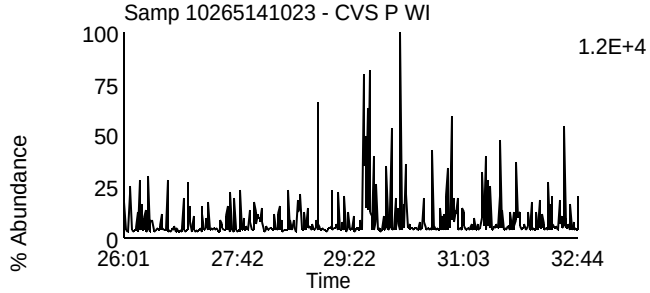
Samp 10265141023 - CVS P WI



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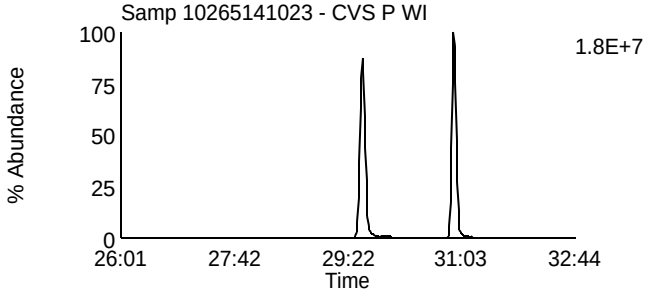
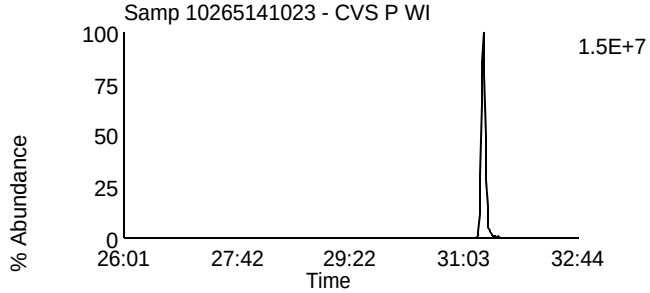
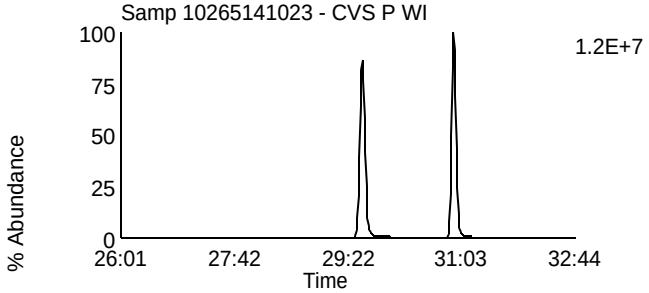
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G2 C10 - 367.8948
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G2 C5 - 353.8969
Samp 10265141023 - CVS P WI



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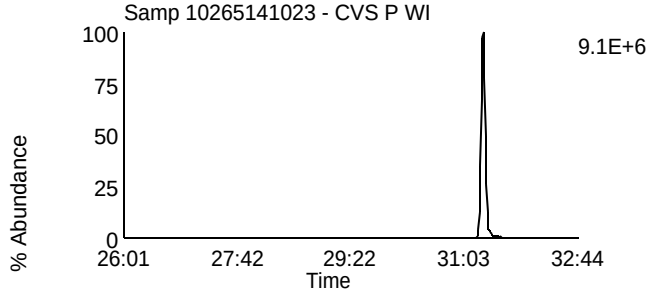
Samp 10265141023 - CVS P WI



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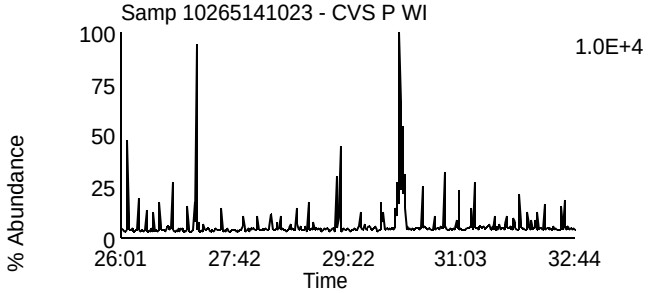
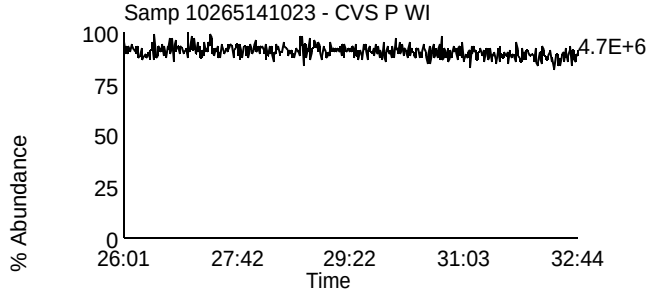
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G2 C6 - 354.9792
Samp 10265141023 - CVS P WI

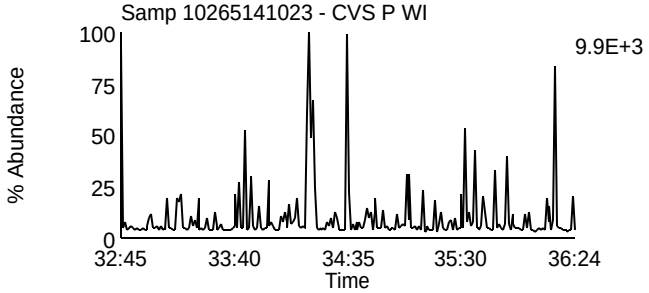


Homologue Group: Hexas

Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

Data File: U140513A_12 G3 C1 - 373.8207
Samp 10265141023 - CVS P WI



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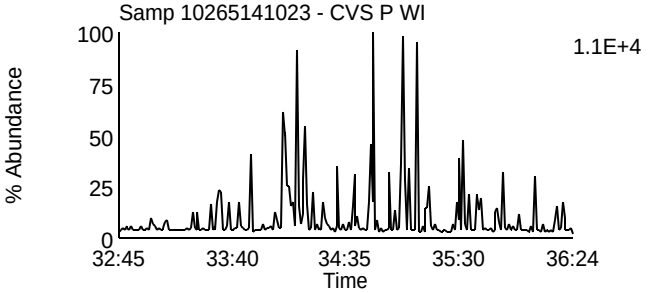
Samp 10265141023 - CVS P WI



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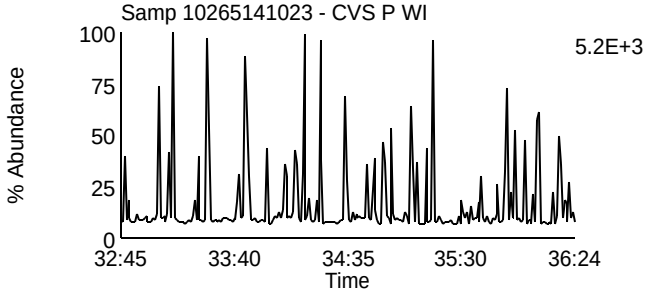
Samp 10265141023 - CVS P WI



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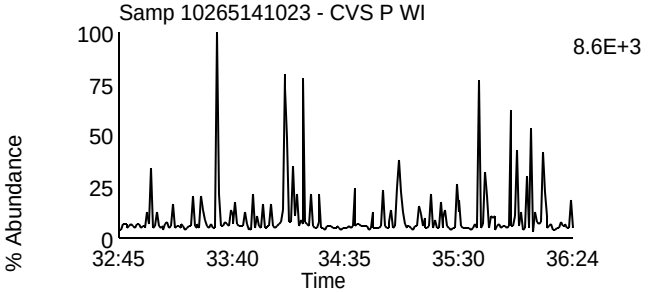
Samp 10265141023 - CVS P WI



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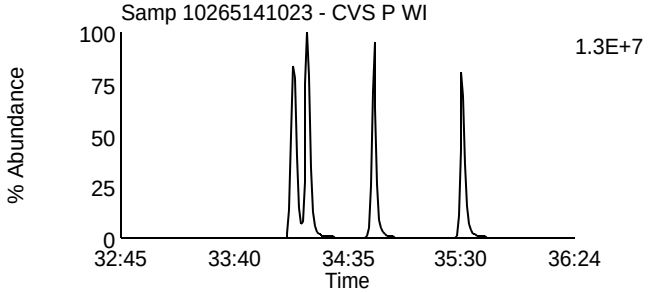
Samp 10265141023 - CVS P WI



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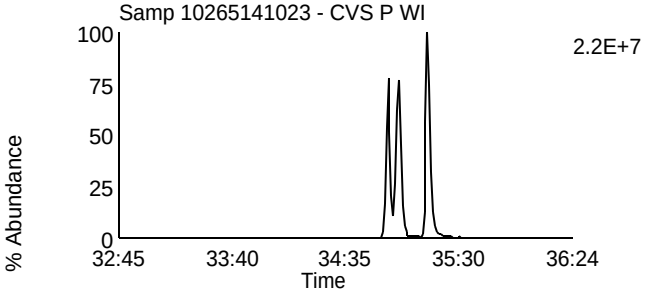
Samp 10265141023 - CVS P WI



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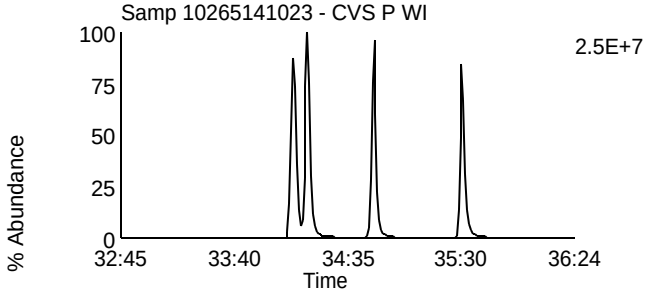
Samp 10265141023 - CVS P WI



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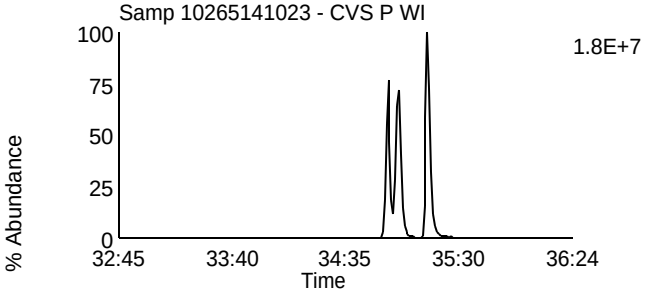

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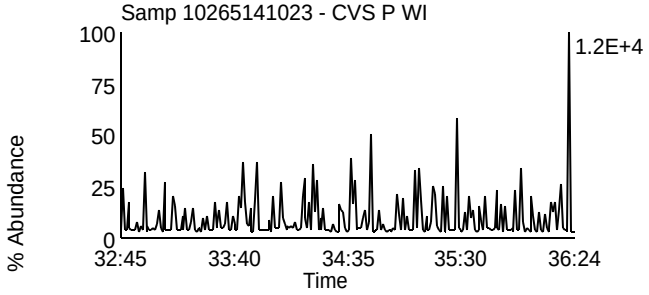
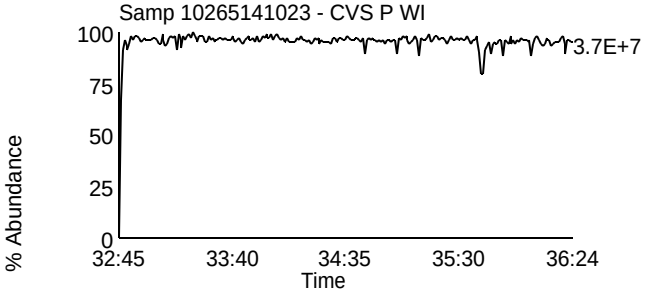
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G3 C3 - 380.976
Samp 10265141023 - CVS P WI

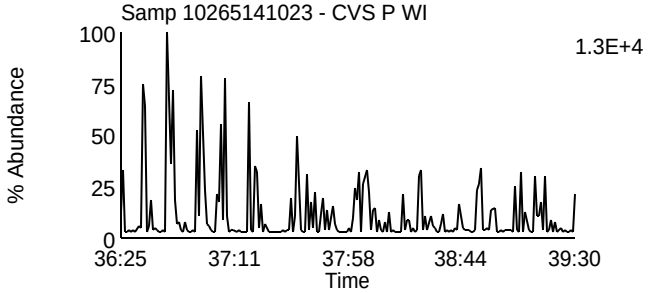


Homologue Group: Heptas

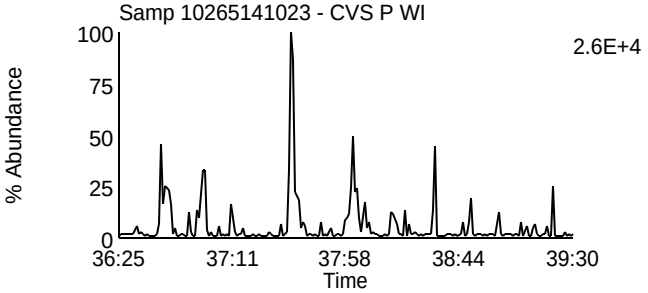
Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

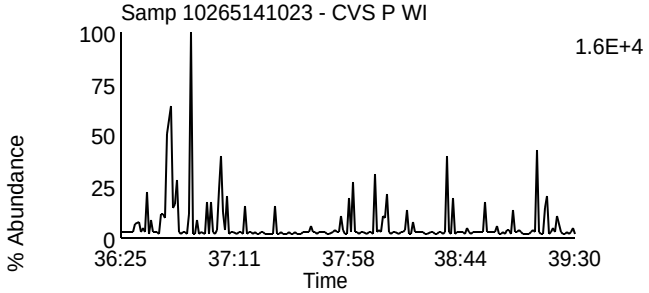
Data File: U140513A_12 G4 C3 - 407.7818
Samp 10265141023 - CVS P WI



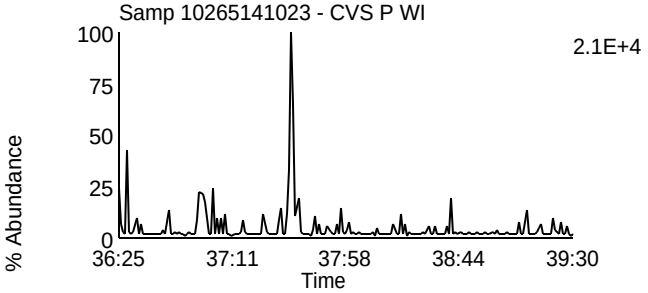
Data File: U140513A_12 G4 C8 - 423.7767
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G4 C4 - 409.7788
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G4 C9 - 425.7737
Samp 10265141023 - CVS P WI



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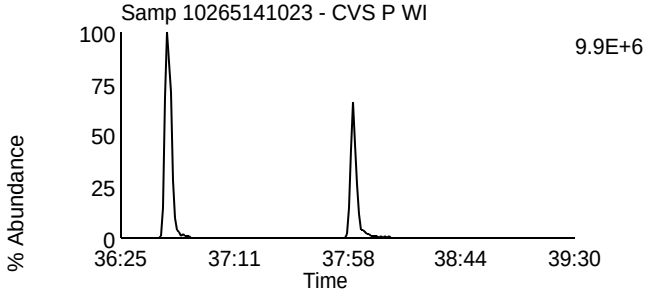
Samp 10265141023 - CVS P WI



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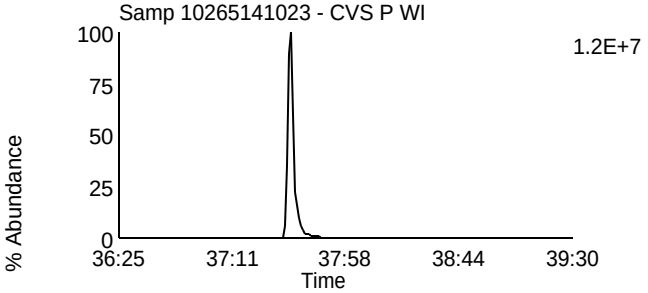
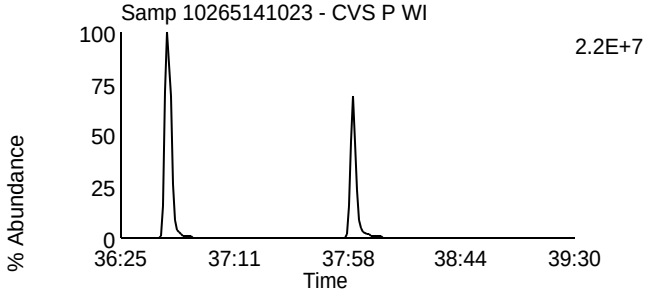
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G4 C7 - 419.822
Samp 10265141023 - CVS P WI



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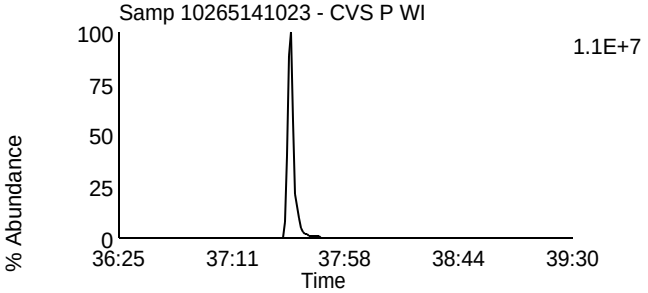

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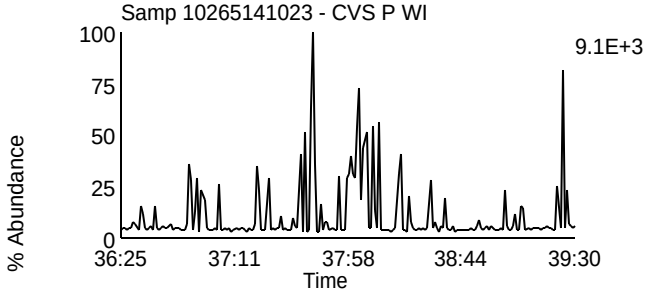
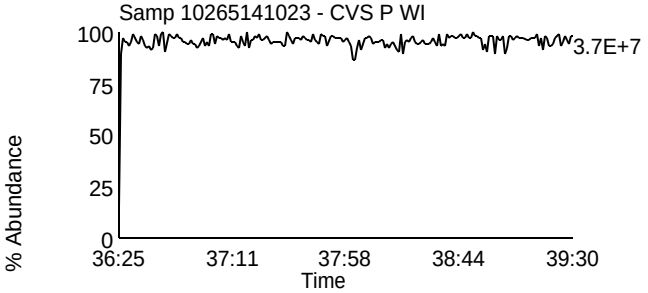
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G4 C1 - 380.976
Samp 10265141023 - CVS P WI

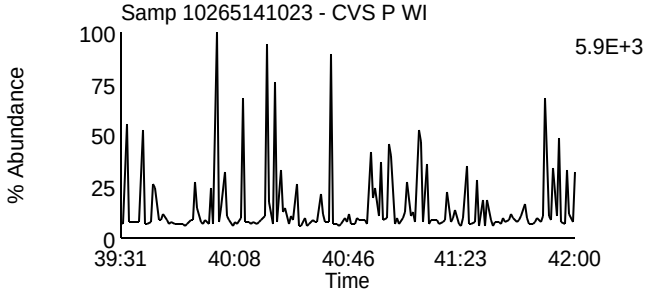


Homologue Group: Octas

Data File Name: U140513A_12
Date Acquired: 5/13/2014
Sample Description: Samp 10265141023 - CVS P WI

Lab Sample ID: 10265141023
Client Sample ID: MAK122C
Instrument: 10MSHR06 (U)

Data File: U140513A_12 G5 C4 - 441.7428
Samp 10265141023 - CVS P WI



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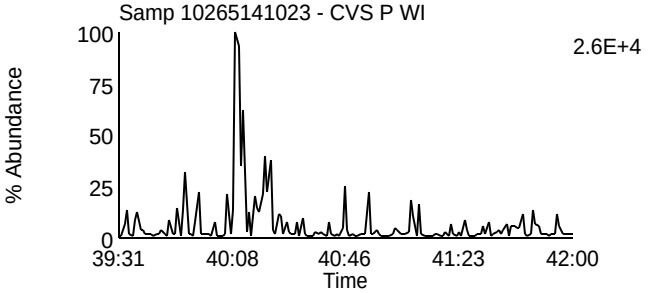

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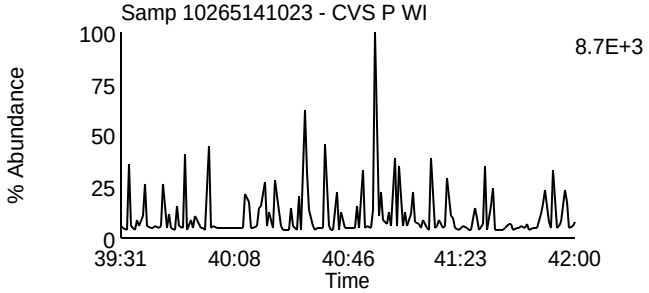
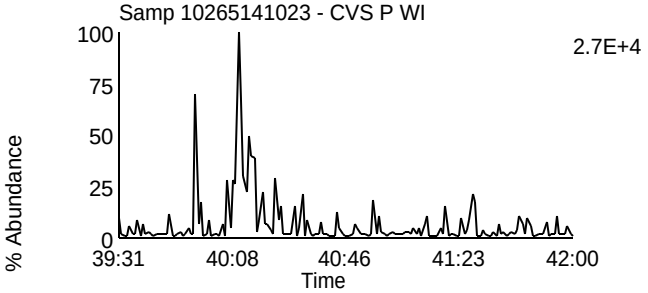
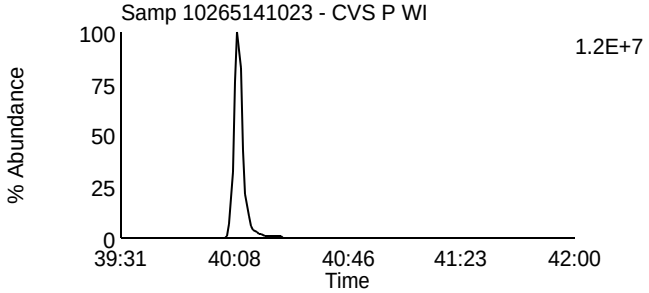
Samp 10265141023 - CVS P WI



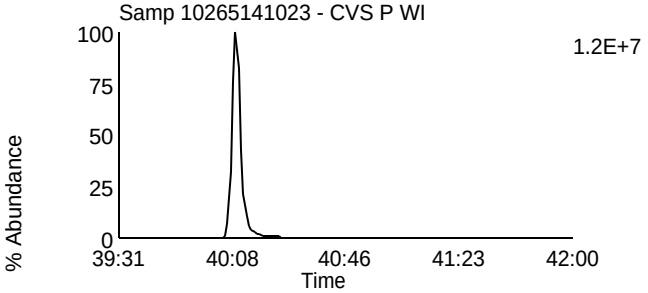
Data File: U140513A_12 G5 C9 - 459.7347
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G5 C11 - 469.7779
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G5 C11 - 469.7779
Samp 10265141023 - CVS P WI



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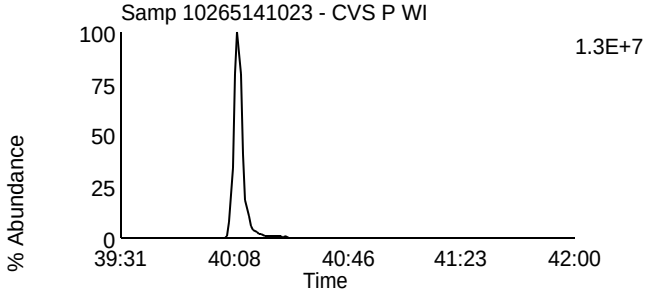
Samp 10265141023 - CVS P WI



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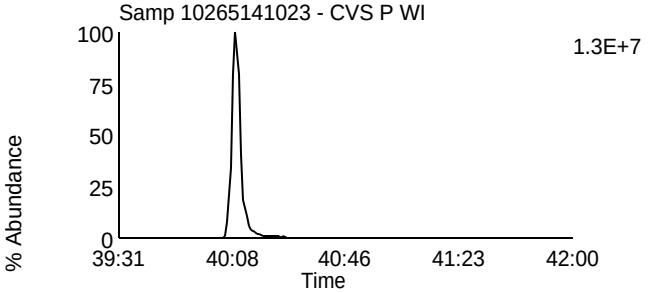
Samp 10265141023 - CVS P WI



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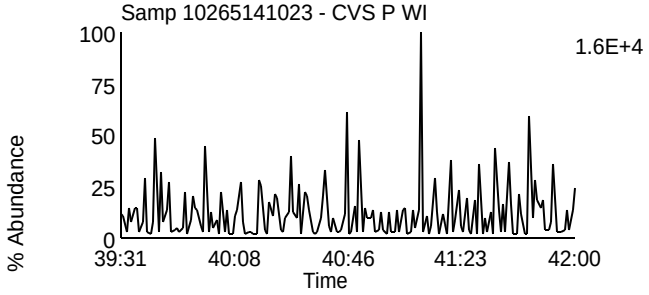
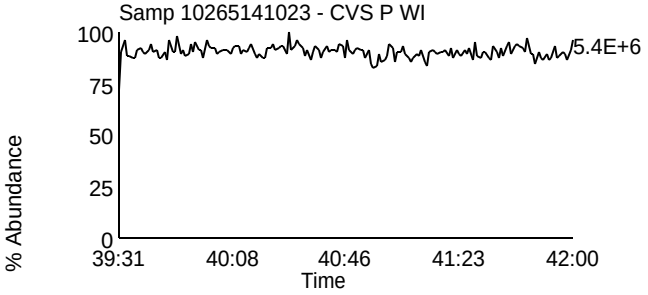
Samp 10265141023 - CVS P WI



Data File: U140513A_12 G5 C2 - 430.9728
Samp 10265141023 - CVS P WI

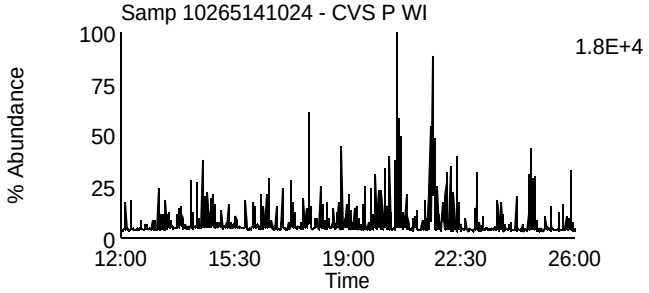


Homologue Group: Tetras

Data File Name: U140513B_03
Date Acquired: 5/13/2014
Sample Description: Samp 10265141024 - CVS P WI

Lab Sample ID: 10265141024
Client Sample ID: MAK123C
Instrument: 10MSHR06 (U)

Data File: U140513B_03 G1 C1 - 303.9016
Samp 10265141024 - CVS P WI



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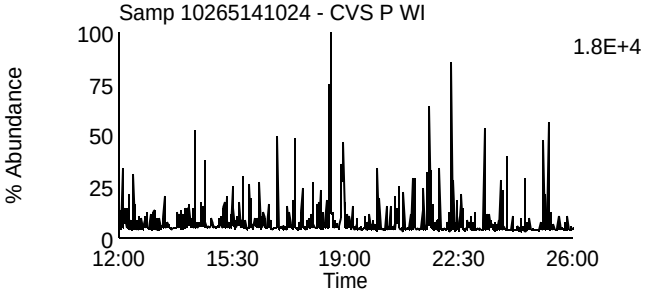
Samp 10265141024 - CVS P WI



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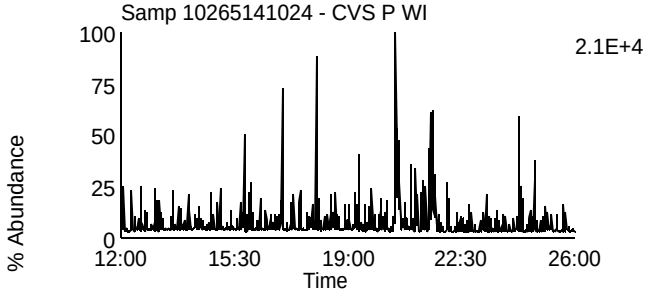
Samp 10265141024 - CVS P WI



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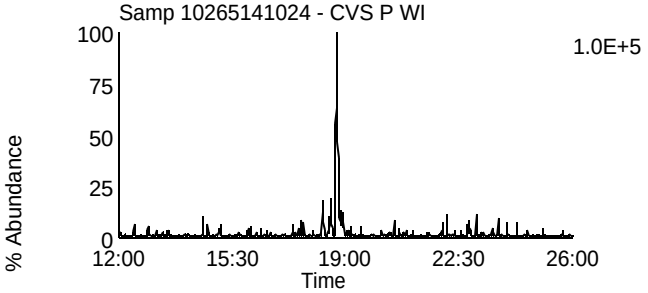

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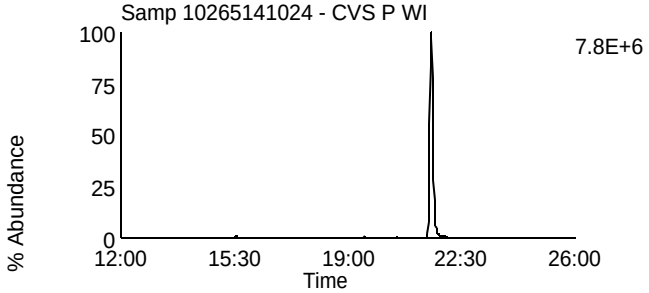
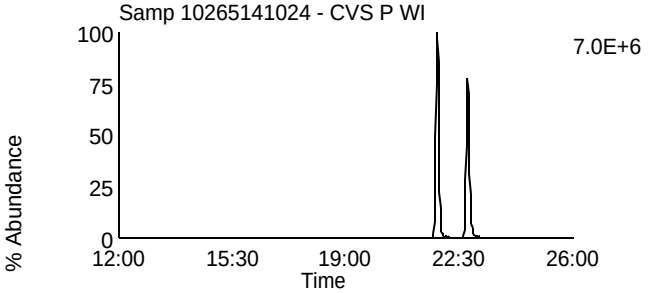
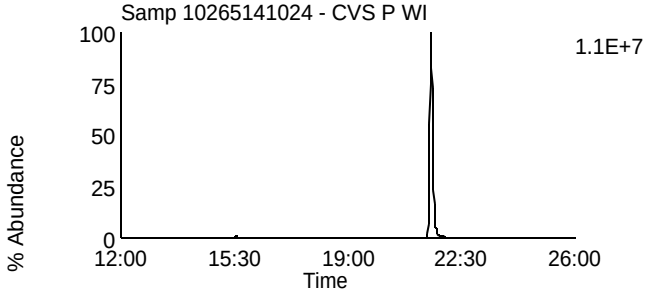
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G1 C10 - 331.9367
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G1 C4 - 317.9389
Samp 10265141024 - CVS P WI



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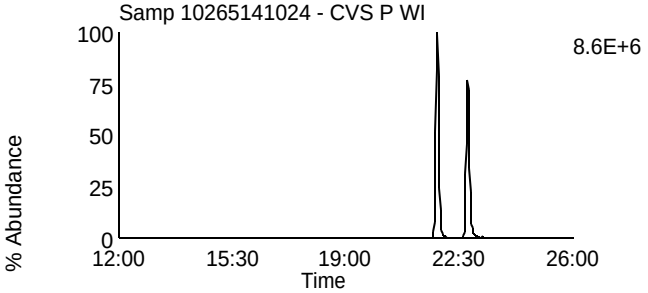
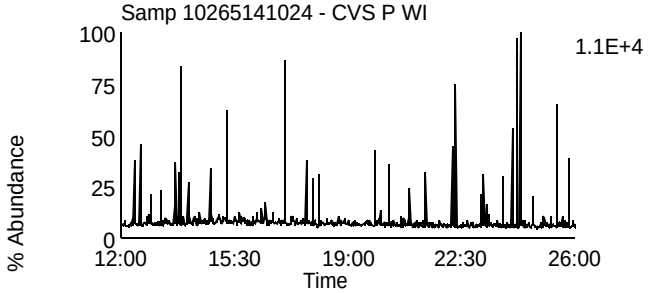
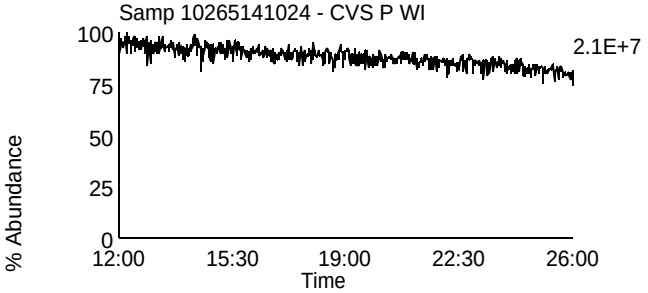
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G1 C14 - 375.8364
Samp 10265141024 - CVS P WI



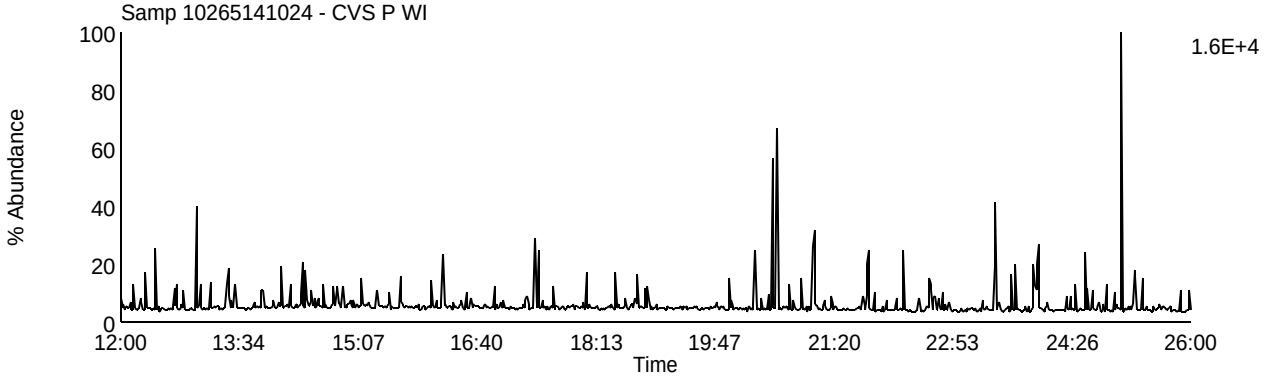
Data File: U140513B_03 G1 C5 - 318.9792
Samp 10265141024 - CVS P WI



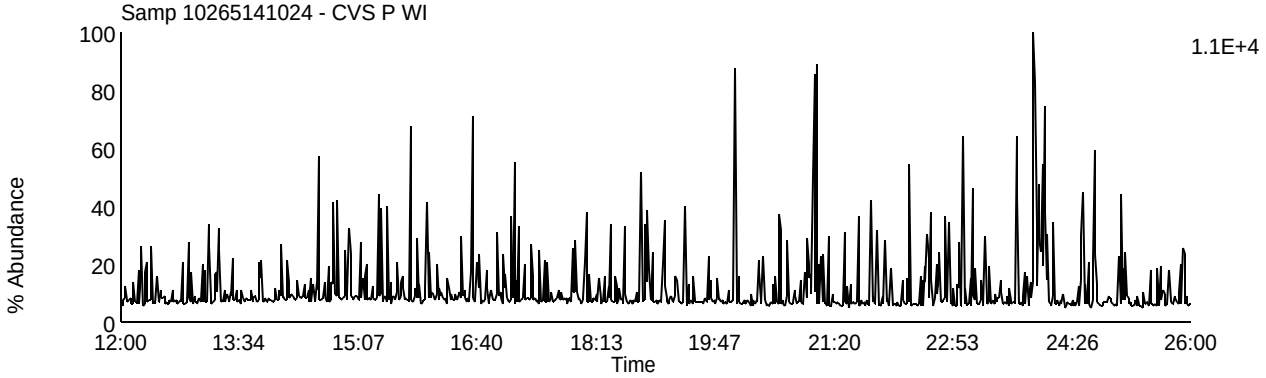
Homologue Group: Penta & Cleanup

Data File Name: U140513B_03	Lab Sample ID: 10265141024
Date Acquired: 5/13/2014	Client Sample ID: MAK123C
Sample Description: Samp 10265141024 - CVS P WI	Instrument: 10MSHR06 (U)

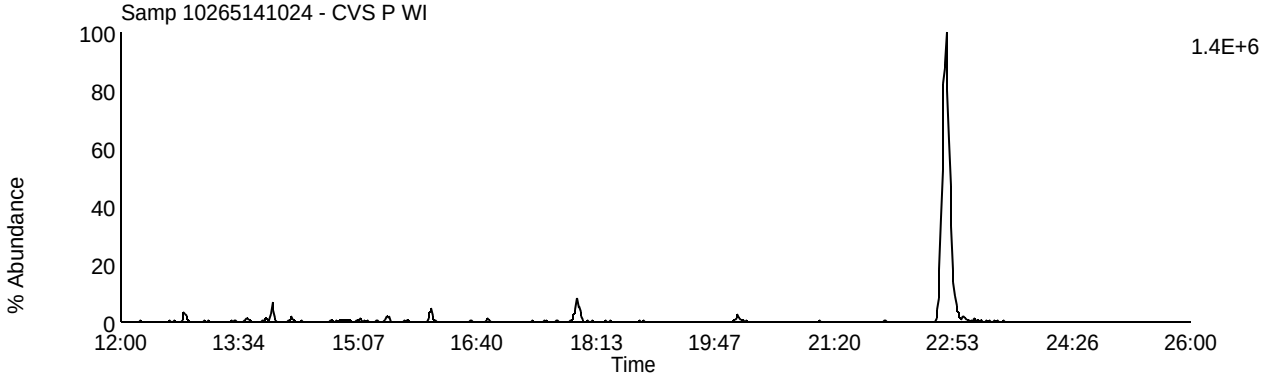
Data File: U140513B_03 G1 C12 - 339.8597
Samp 10265141024 - CVS P WI



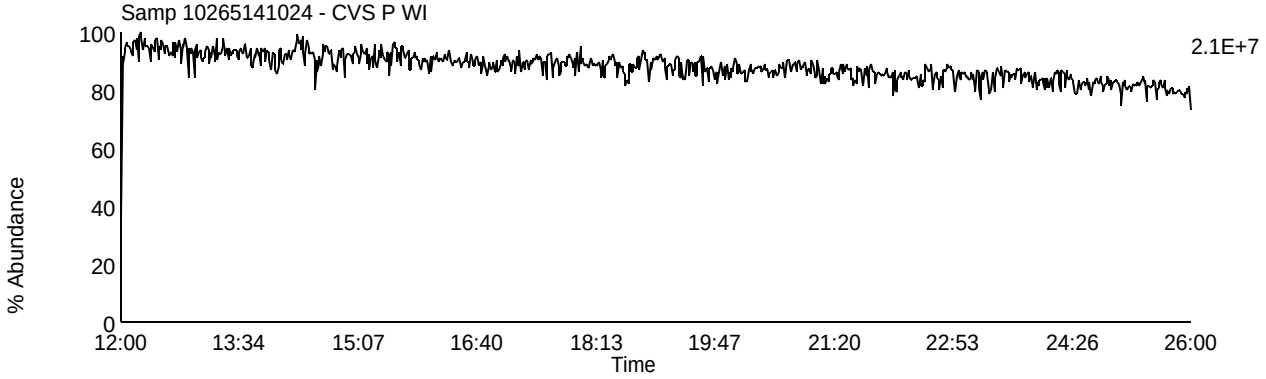
Data File: U140513B_03 G1 C13 - 341.8567
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G1 C9 - 327.8847
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G1 C5 - 318.9792
Samp 10265141024 - CVS P WI

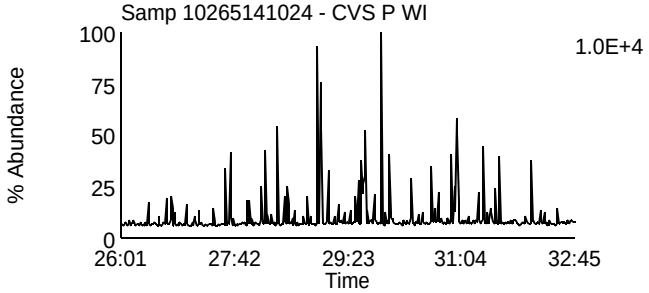


Homologue Group: Pentas

Data File Name: U140513B_03
Date Acquired: 5/13/2014
Sample Description: Samp 10265141024 - CVS P WI

Lab Sample ID: 10265141024
Client Sample ID: MAK123C
Instrument: 10MSHR06 (U)

Data File: U140513B_03 G2 C1 - 339.8597
Samp 10265141024 - CVS P WI



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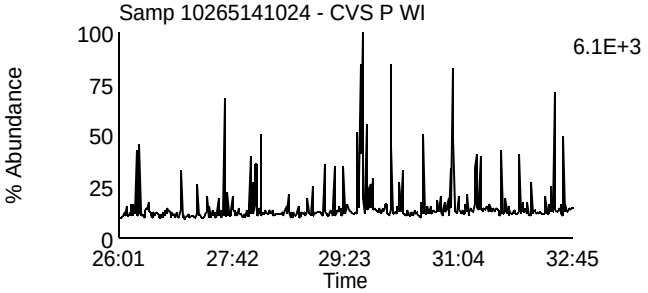
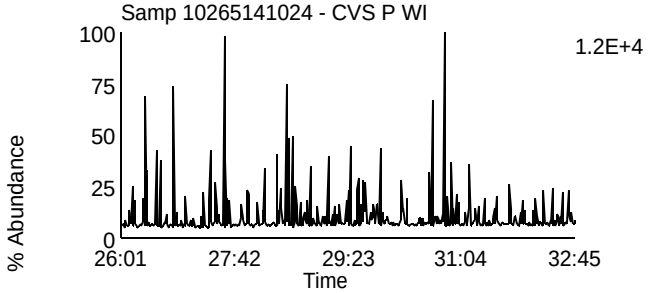
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G2 C2 - 341.8567
Samp 10265141024 - CVS P WI



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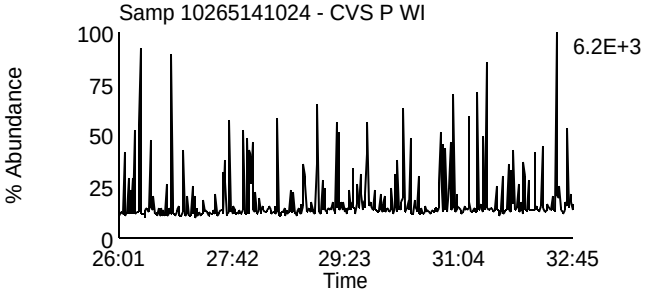
Samp 10265141024 - CVS P WI



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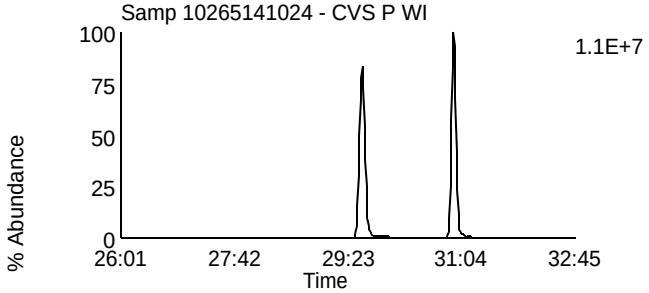
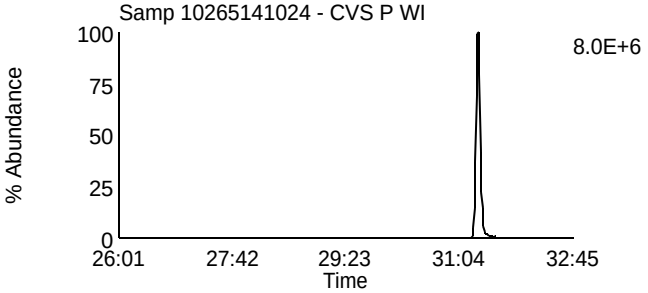
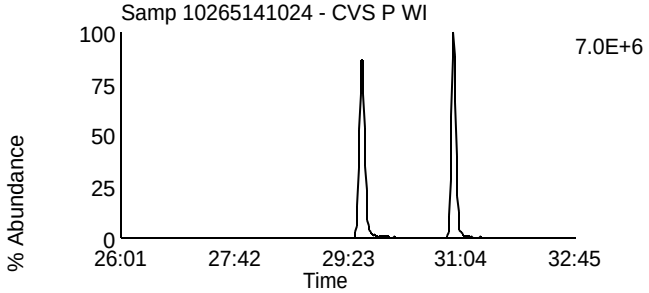
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G2 C10 - 367.8948
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G2 C5 - 353.8969
Samp 10265141024 - CVS P WI



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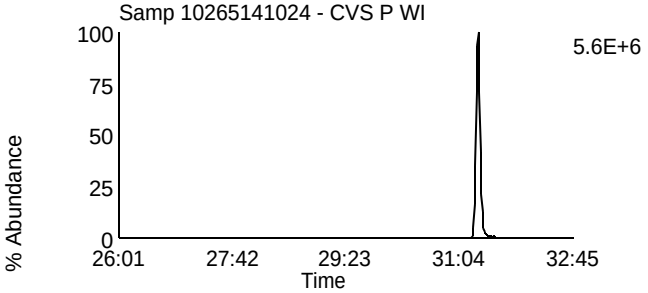
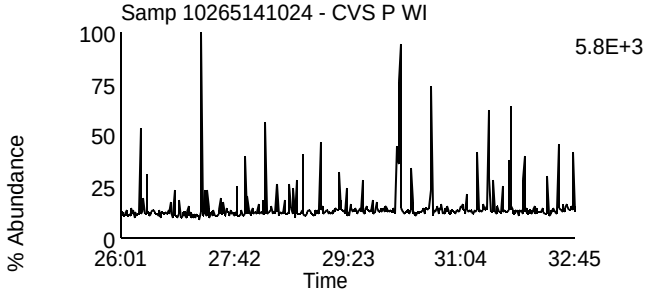
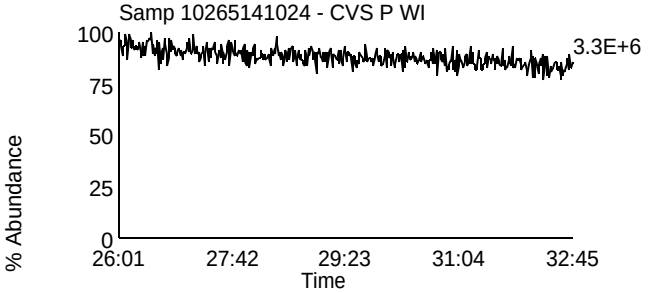


Data File: U140513B_03 G2 C12 - 409.7974
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G2 C6 - 354.9792
Samp 10265141024 - CVS P WI

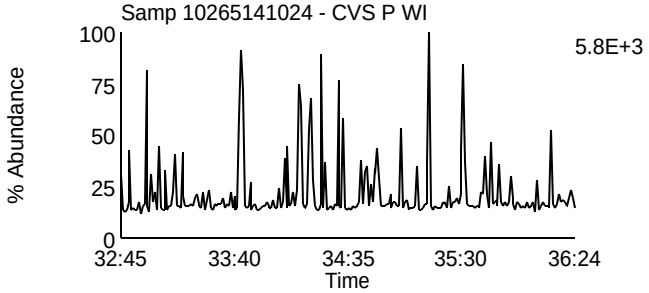


Homologue Group: Hexas

Data File Name: U140513B_03
Date Acquired: 5/13/2014
Sample Description: Samp 10265141024 - CVS P WI

Lab Sample ID: 10265141024
Client Sample ID: MAK123C
Instrument: 10MSHR06 (U)

Data File: U140513B_03 G3 C1 - 373.8207
Samp 10265141024 - CVS P WI



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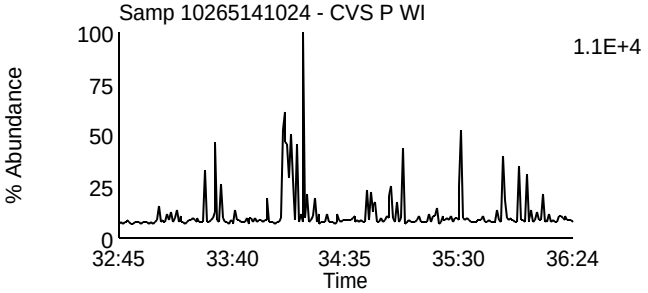
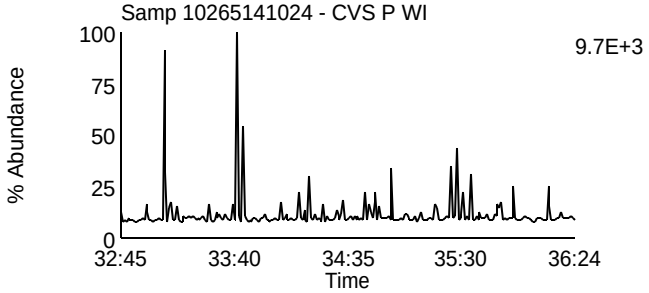
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G3 C2 - 375.8178
Samp 10265141024 - CVS P WI



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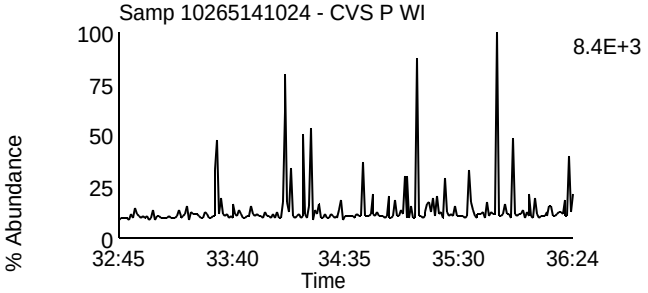
Samp 10265141024 - CVS P WI



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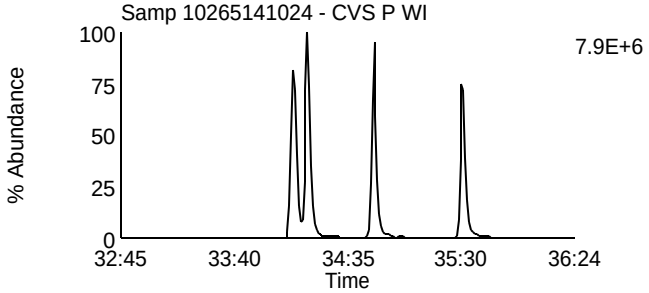

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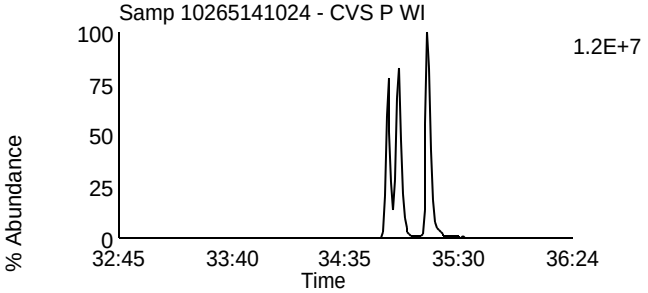
Samp 10265141024 - CVS P WI



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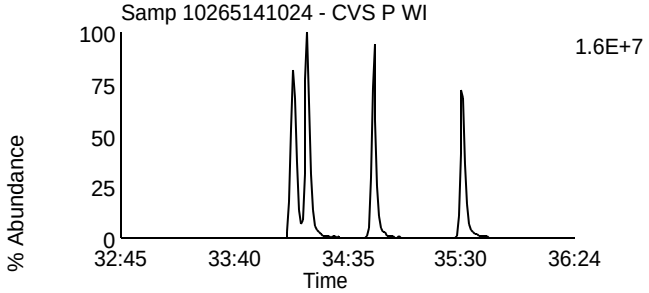
Samp 10265141024 - CVS P WI



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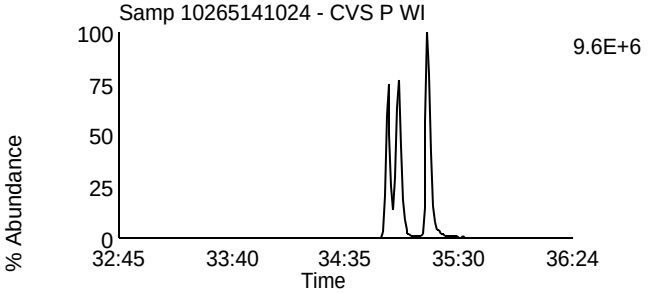

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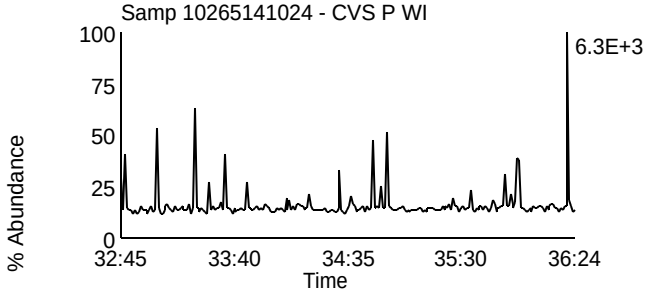

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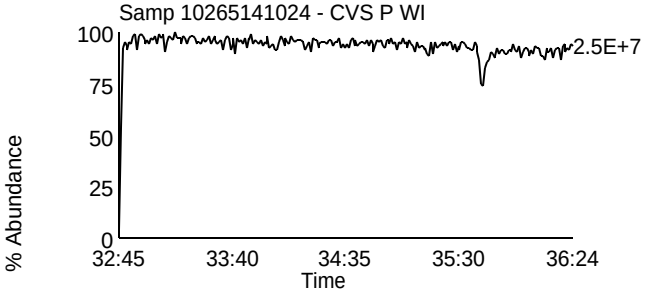
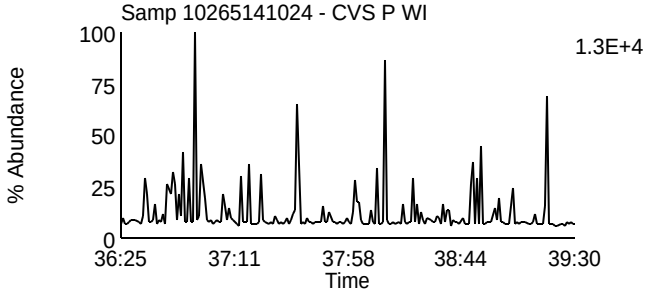


Homologue Group: Heptas

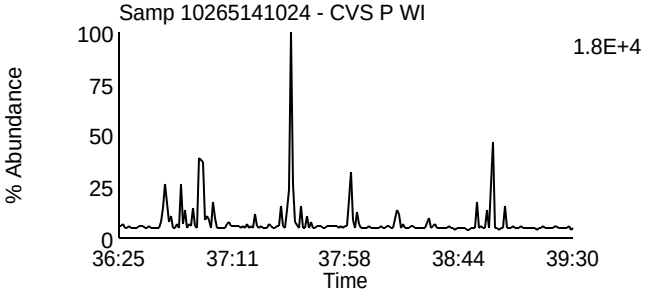
Data File Name: U140513B_03
Date Acquired: 5/13/2014
Sample Description: Samp 10265141024 - CVS P WI

Lab Sample ID: 10265141024
Client Sample ID: MAK123C
Instrument: 10MSHR06 (U)

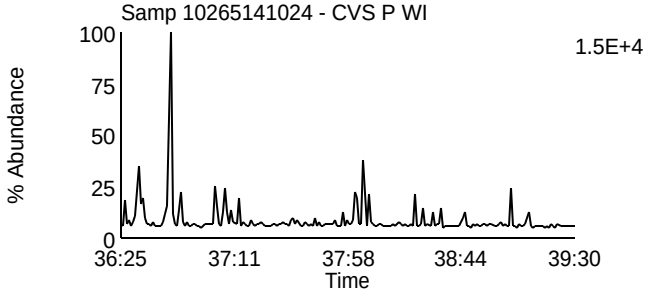
Data File: U140513B_03 G4 C3 - 407.7818
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G4 C8 - 423.7767
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G4 C4 - 409.7788
Samp 10265141024 - CVS P WI



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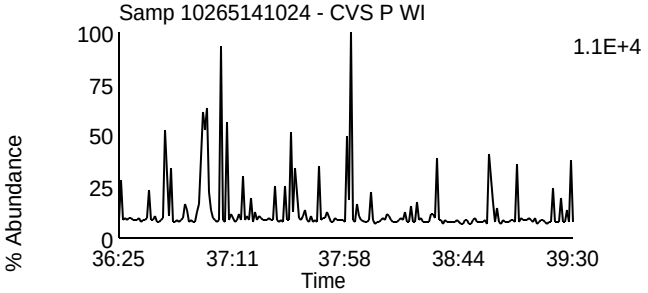

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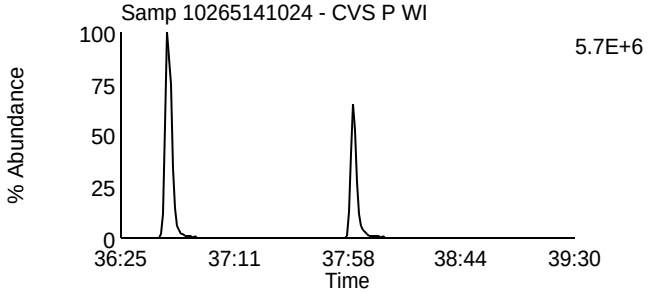

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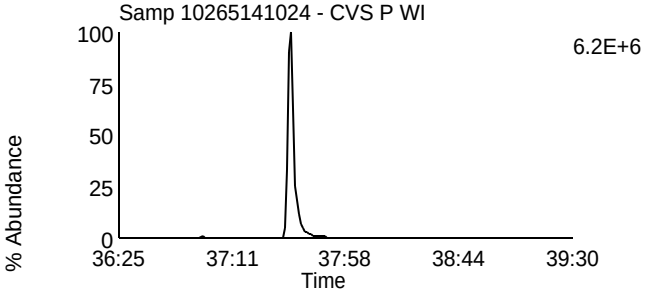
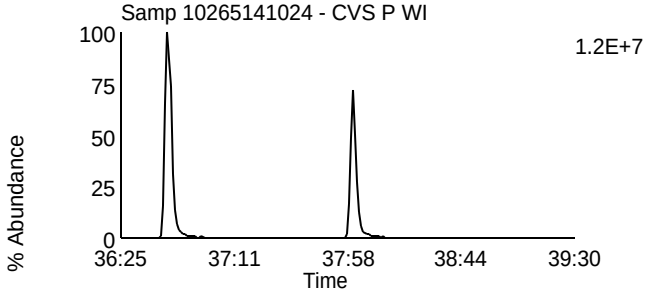


Data File: U140513B_03 G4 C7 - 419.822
Samp 10265141024 - CVS P WI



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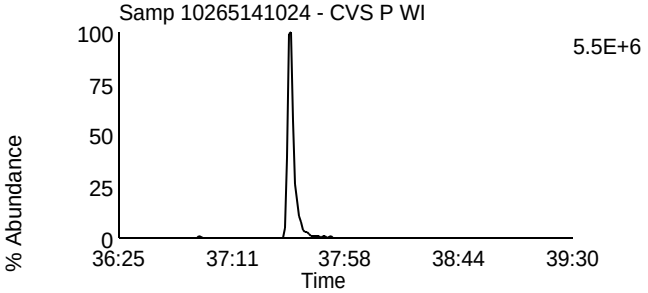
Samp 10265141024 - CVS P WI



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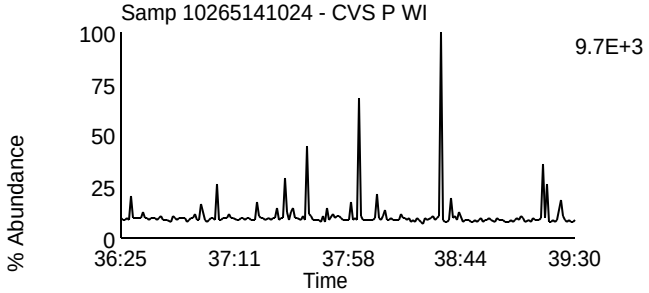
Samp 10265141024 - CVS P WI



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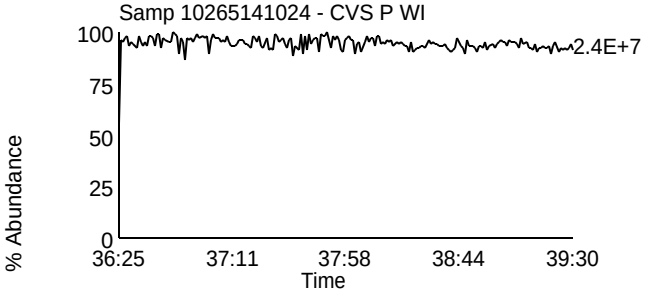
Samp 10265141024 - CVS P WI

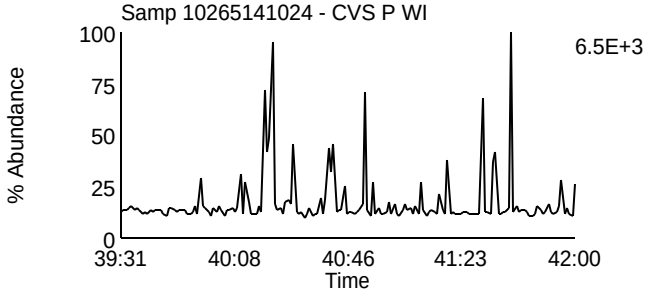


Homologue Group: Octas

Data File Name: U140513B_03
Date Acquired: 5/13/2014
Sample Description: Samp 10265141024 - CVS P WI

Lab Sample ID: 10265141024
Client Sample ID: MAK123C
Instrument: 10MSHR06 (U)

Data File: U140513B_03 G5 C4 - 441.7428
Samp 10265141024 - CVS P WI



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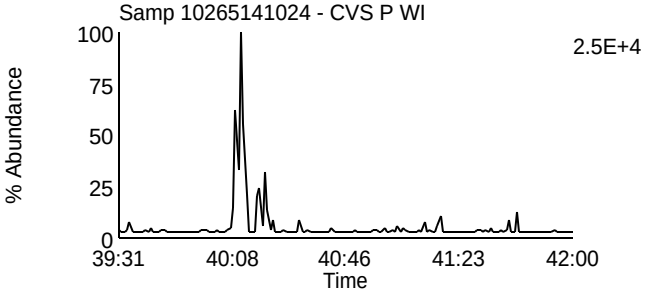
Samp 10265141024 - CVS P WI



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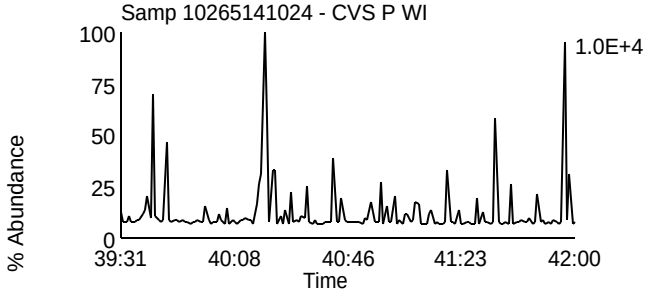
Samp 10265141024 - CVS P WI



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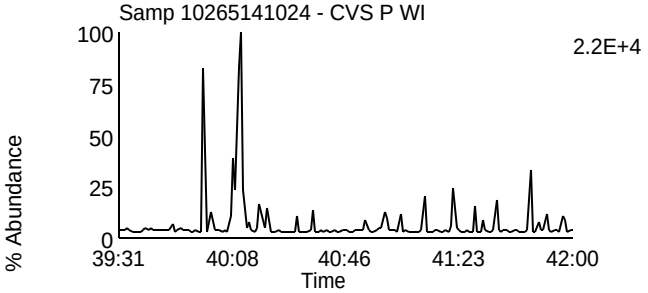
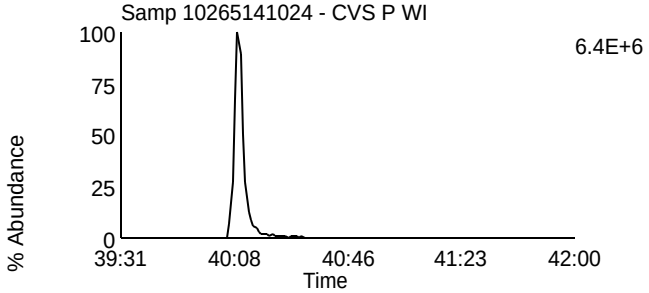
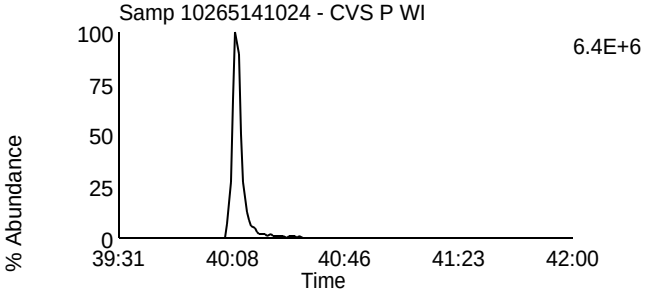
Samp 10265141024 - CVS P WI



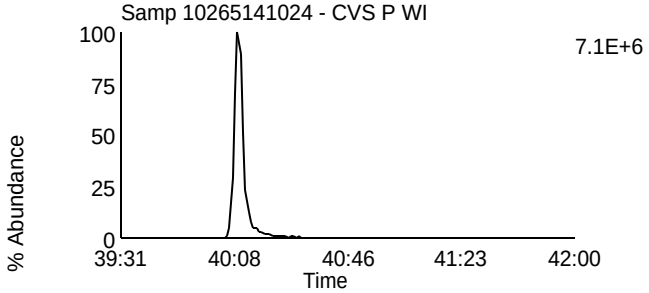
Data File: U140513B_03 G5 C11 - 469.7779
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G5 C11 - 469.7779
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G5 C12 - 471.7749
Samp 10265141024 - CVS P WI



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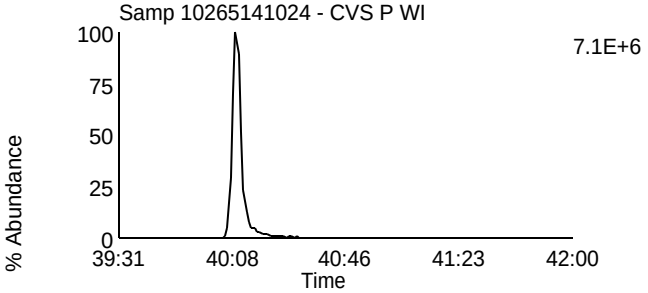

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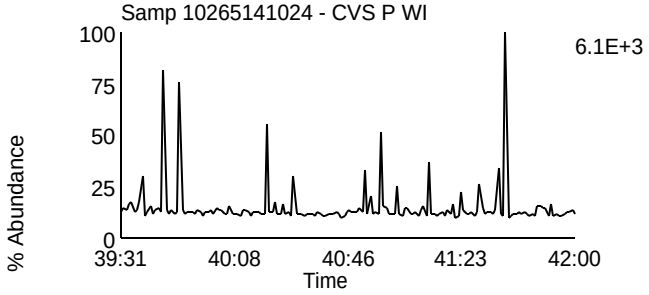
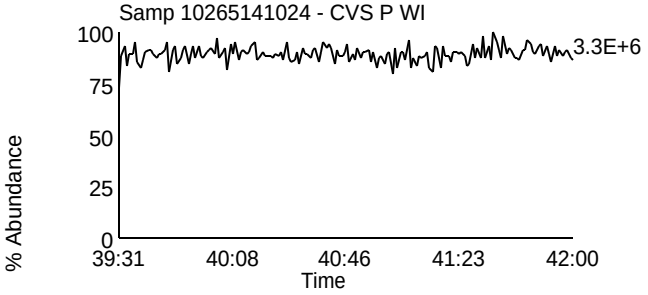
Samp 10265141024 - CVS P WI



Data File: U140513B_03 G5 C2 - 430.9728
Samp 10265141024 - CVS P WI

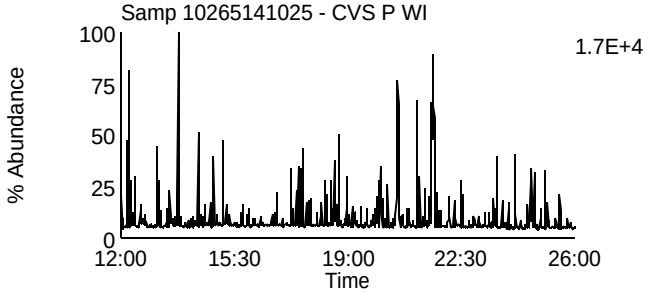


Homologue Group: Tetras

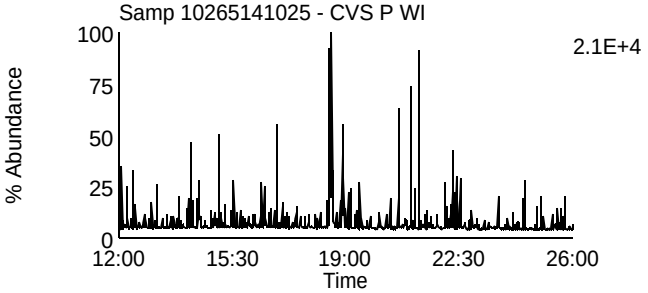
Data File Name: U140513B_04
Date Acquired: 5/13/2014
Sample Description: Samp 10265141025 - CVS P WI

Lab Sample ID: 10265141025
Client Sample ID: MAK124C
Instrument: 10MSHR06 (U)

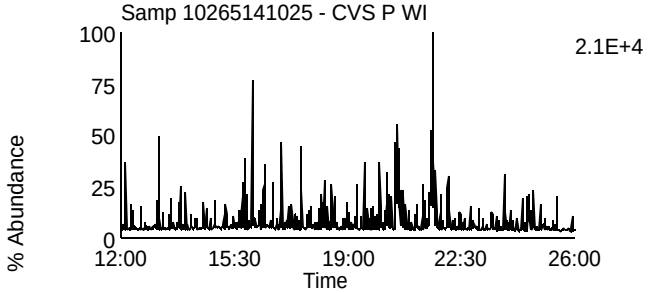
Data File: U140513B_04 G1 C1 - 303.9016
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C7 - 319.8965
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C2 - 305.8987
Samp 10265141025 - CVS P WI



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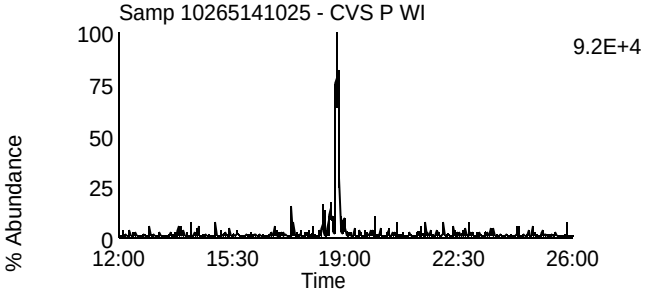
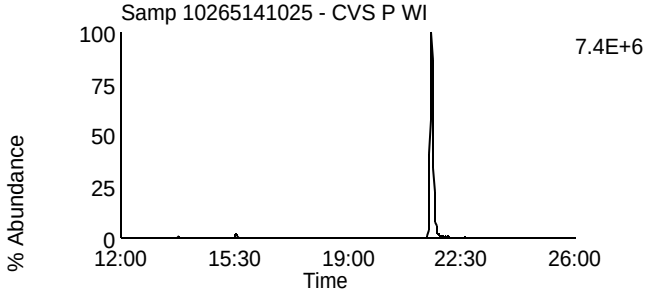
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C3 - 315.9418
Samp 10265141025 - CVS P WI



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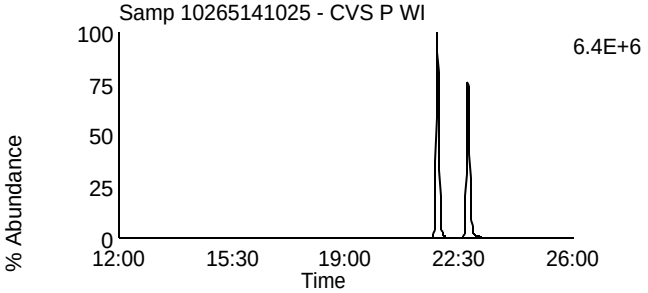
Samp 10265141025 - CVS P WI



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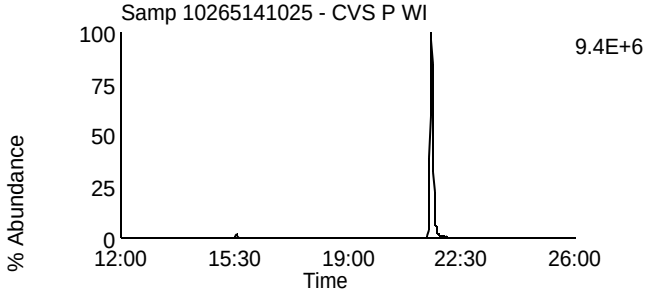
Samp 10265141025 - CVS P WI



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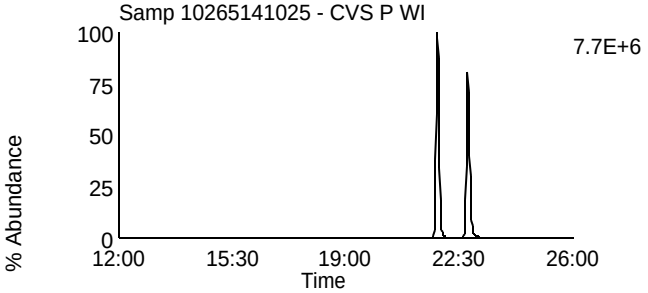
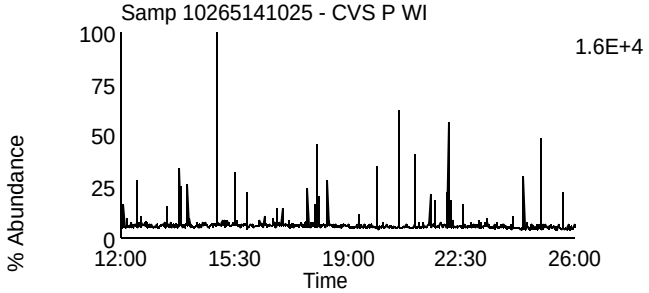
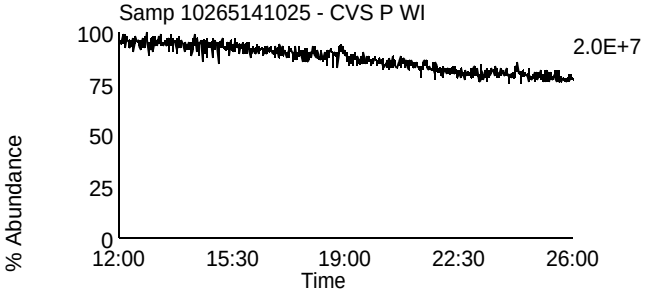
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C14 - 375.8364
Samp 10265141025 - CVS P WI



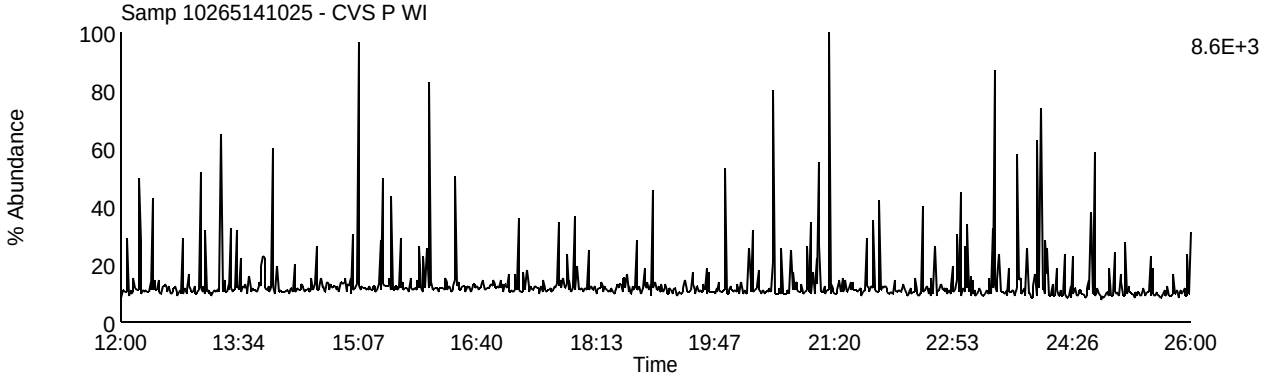
Data File: U140513B_04 G1 C5 - 318.9792
Samp 10265141025 - CVS P WI



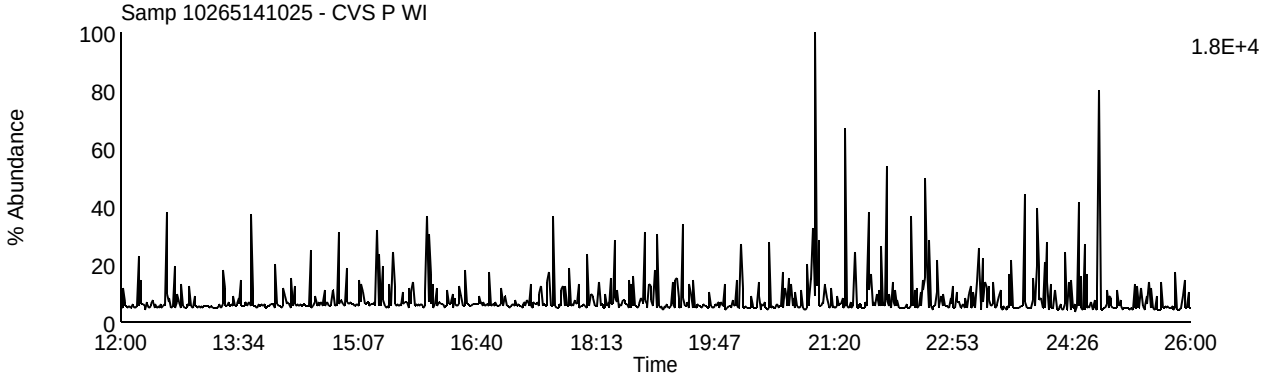
Homologue Group: Penta & Cleanup

Data File Name: U140513B_04	Lab Sample ID: 10265141025
Date Acquired: 5/13/2014	Client Sample ID: MAK124C
Sample Description: Samp 10265141025 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513B_04 G1 C12 - 339.8597
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C13 - 341.8567
Samp 10265141025 - CVS P WI



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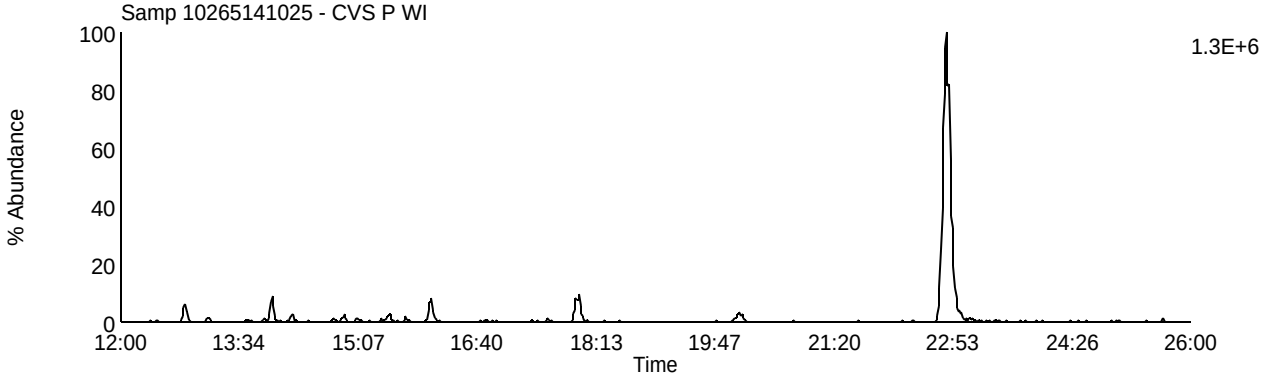
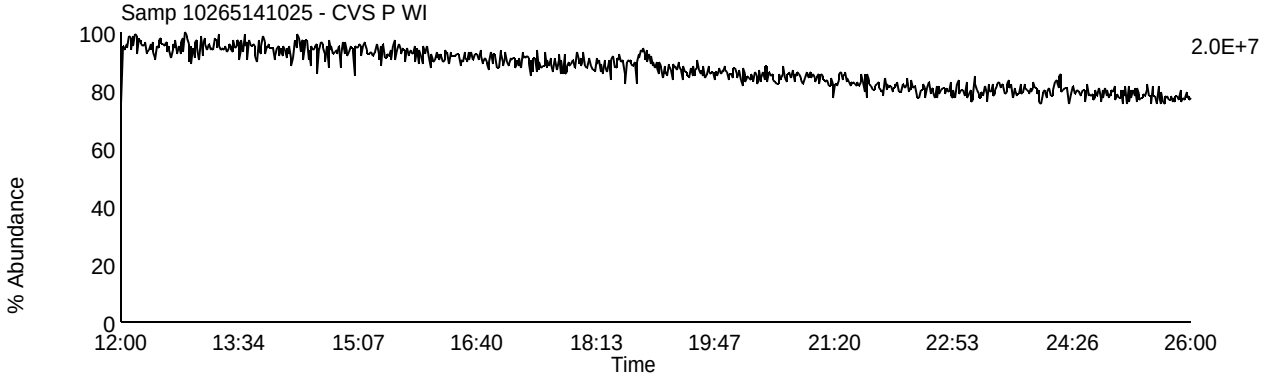
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G1 C5 - 318.9792
Samp 10265141025 - CVS P WI

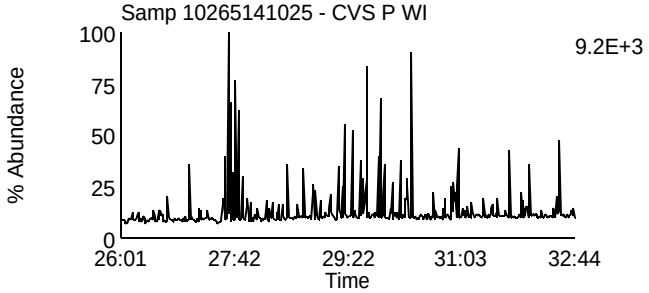


Homologue Group: Pentas

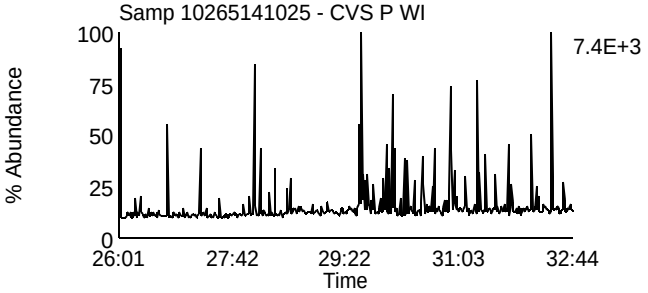
Data File Name: U140513B_04
Date Acquired: 5/13/2014
Sample Description: Samp 10265141025 - CVS P WI

Lab Sample ID: 10265141025
Client Sample ID: MAK124C
Instrument: 10MSHR06 (U)

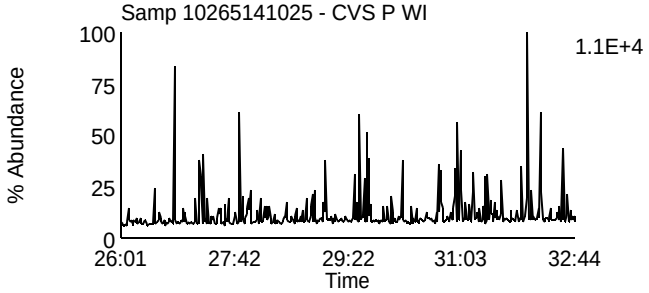
Data File: U140513B_04 G2 C1 - 339.8597
Samp 10265141025 - CVS P WI



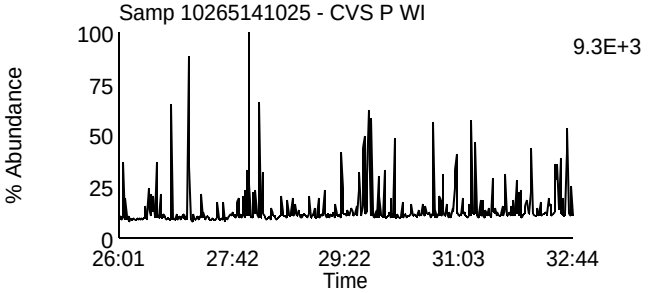
Data File: U140513B_04 G2 C4 - 353.8576
Samp 10265141025 - CVS P WI



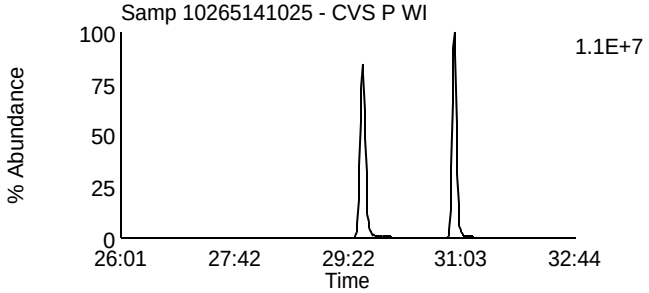
Data File: U140513B_04 G2 C2 - 341.8567
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G2 C8 - 355.8546
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G2 C3 - 351.8999
Samp 10265141025 - CVS P WI



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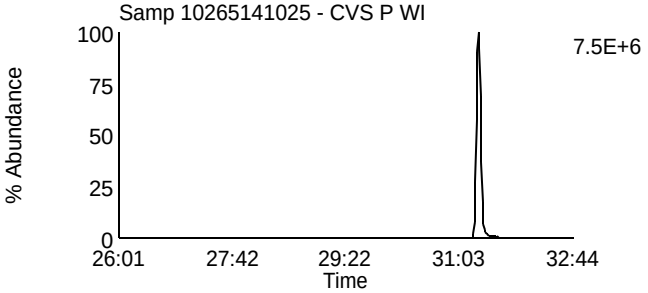
Samp 10265141025 - CVS P WI



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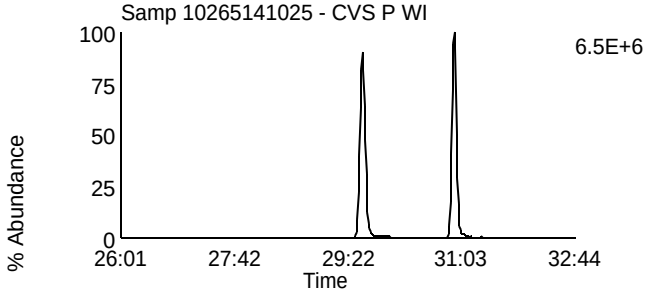
Samp 10265141025 - CVS P WI



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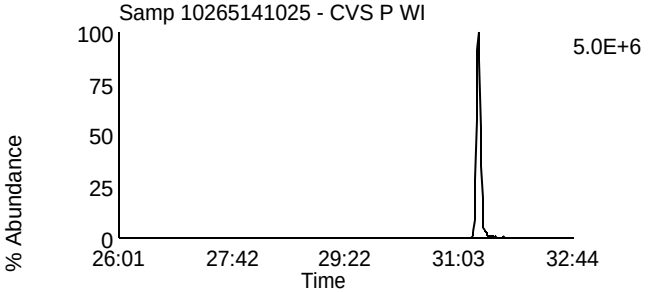

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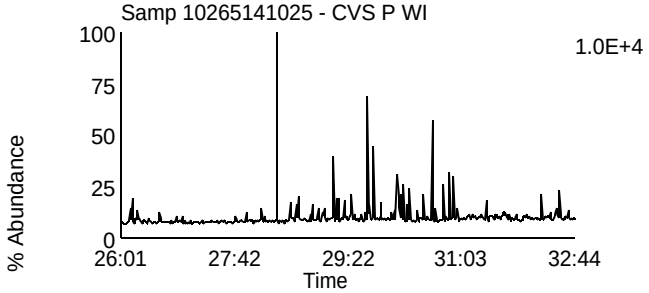
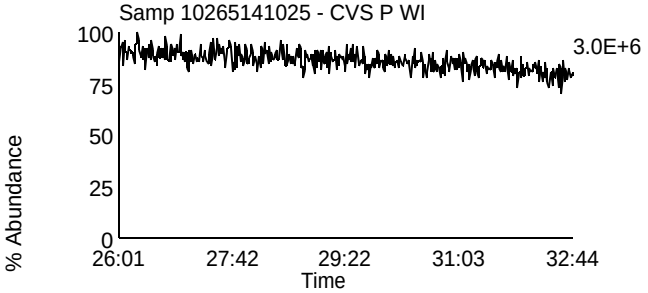
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G2 C6 - 354.9792
Samp 10265141025 - CVS P WI

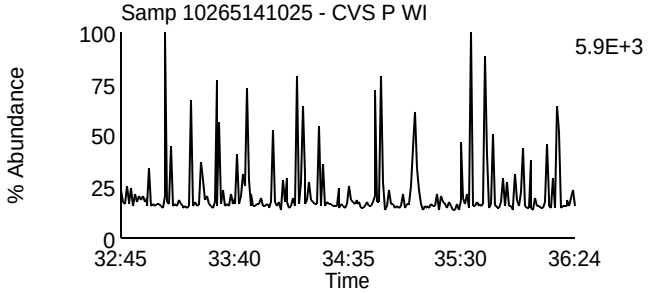


Homologue Group: Hexas

Data File Name: U140513B_04
Date Acquired: 5/13/2014
Sample Description: Samp 10265141025 - CVS P WI

Lab Sample ID: 10265141025
Client Sample ID: MAK124C
Instrument: 10MSHR06 (U)

Data File: U140513B_04 G3 C1 - 373.8207
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G3 C7 - 389.8156
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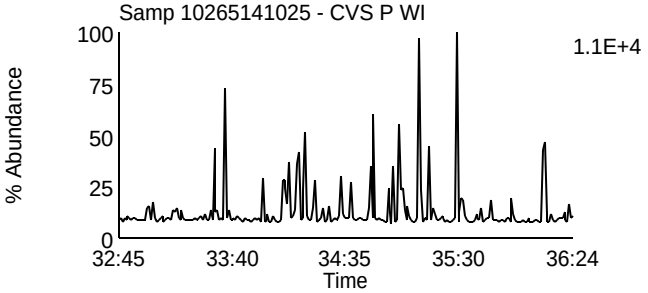
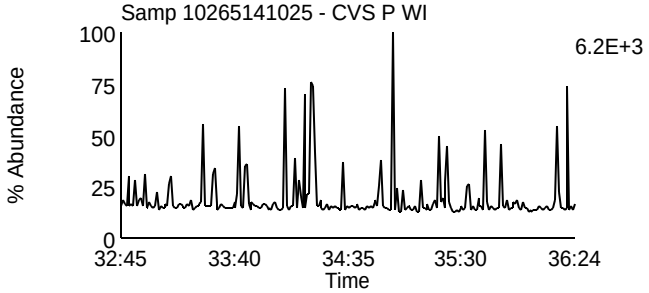
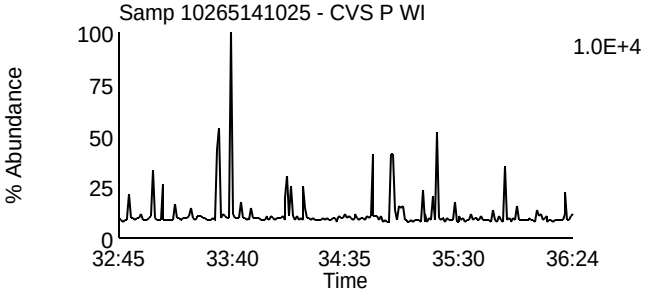


Data File: U140513B_04 G3 C2 - 375.8178
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G3 C8 - 391.8127
Samp 10265141025 - CVS P WI



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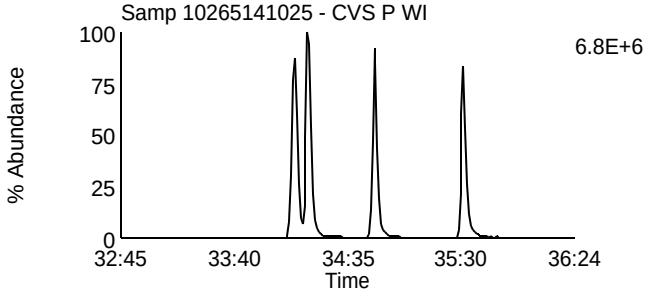
Samp 10265141025 - CVS P WI



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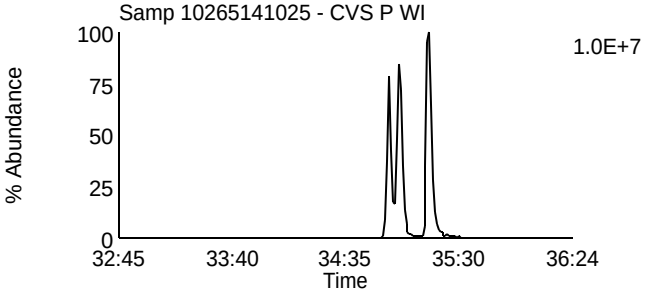
Samp 10265141025 - CVS P WI



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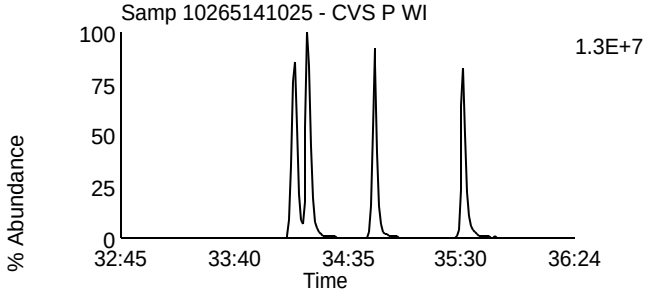

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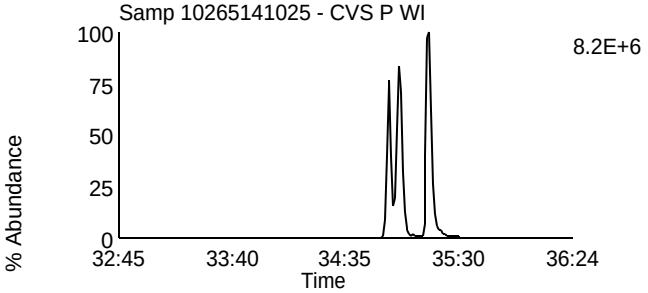
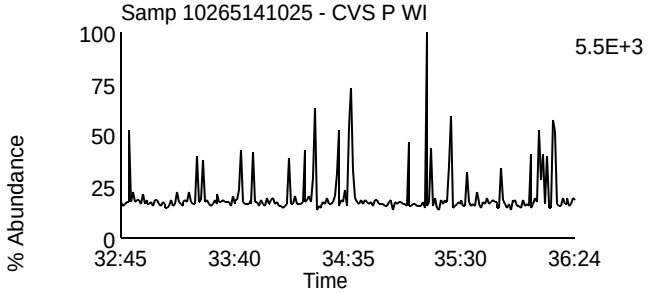
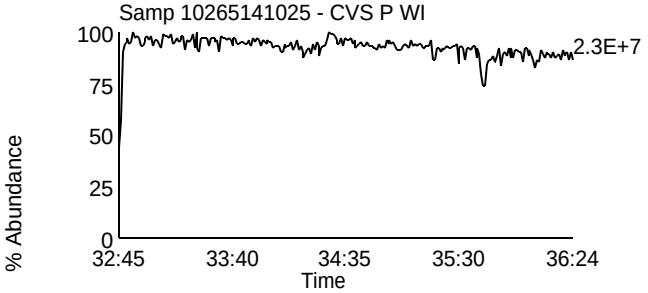


Data File: U140513B_04 G3 C11 - 445.7555
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G3 C3 - 380.976
Samp 10265141025 - CVS P WI

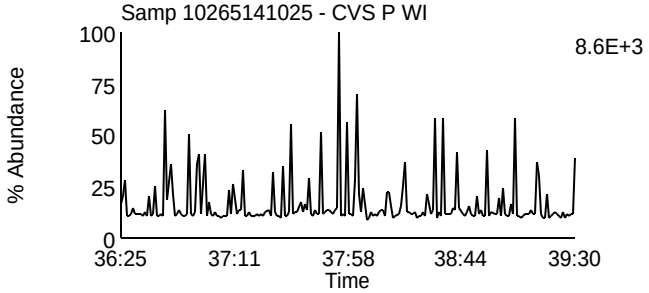


Homologue Group: Heptas

Data File Name: U140513B_04
Date Acquired: 5/13/2014
Sample Description: Samp 10265141025 - CVS P WI

Lab Sample ID: 10265141025
Client Sample ID: MAK124C
Instrument: 10MSHR06 (U)

Data File: U140513B_04 G4 C3 - 407.7818
Samp 10265141025 - CVS P WI



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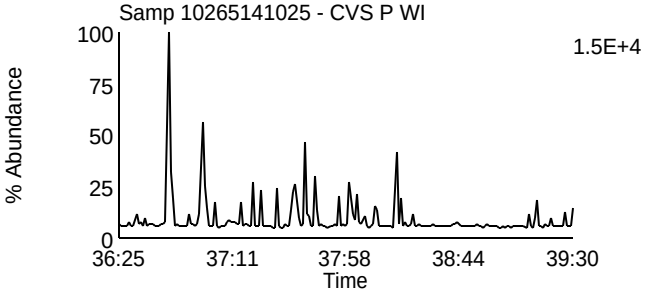
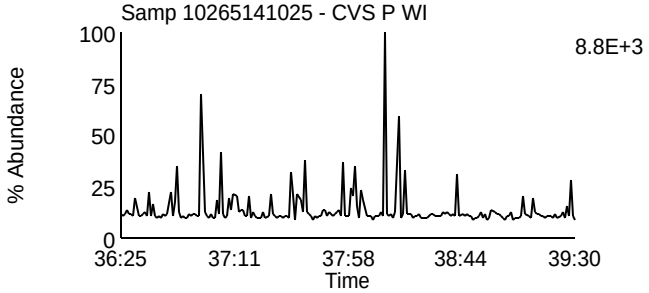
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G4 C4 - 409.7788
Samp 10265141025 - CVS P WI



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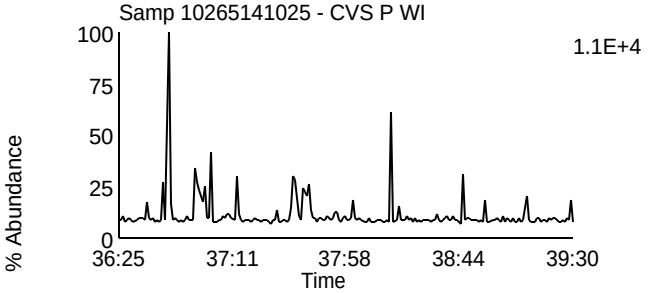
Samp 10265141025 - CVS P WI



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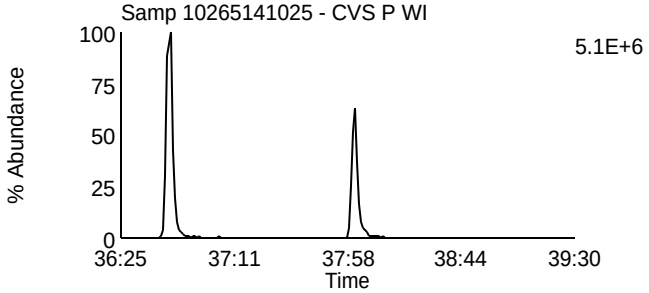
Samp 10265141025 - CVS P WI



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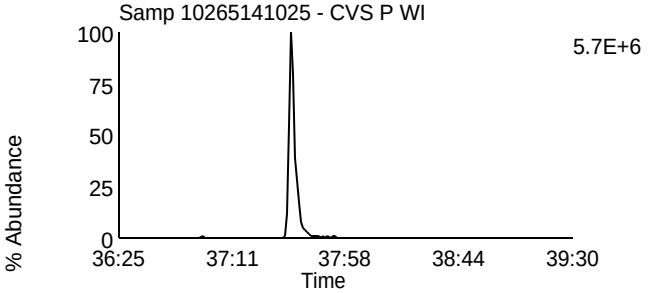
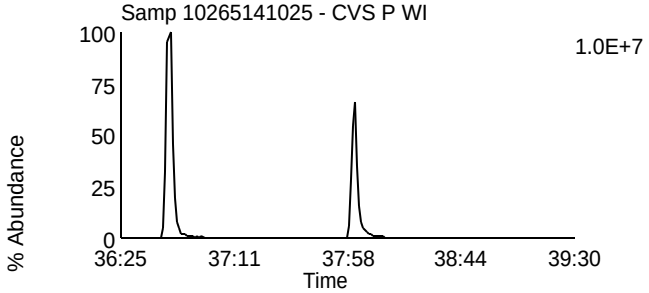
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G4 C7 - 419.822
Samp 10265141025 - CVS P WI



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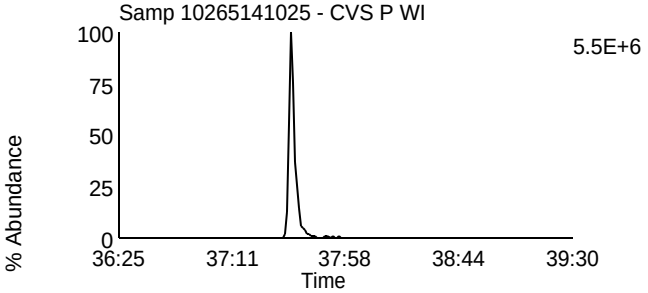
Samp 10265141025 - CVS P WI



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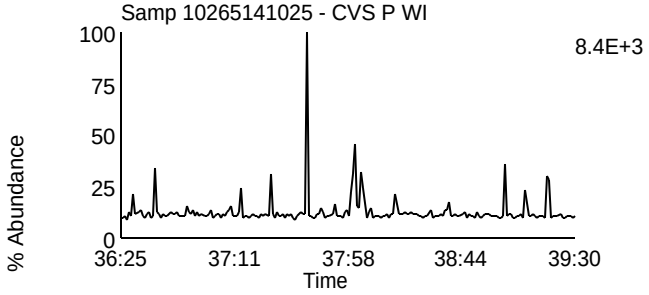
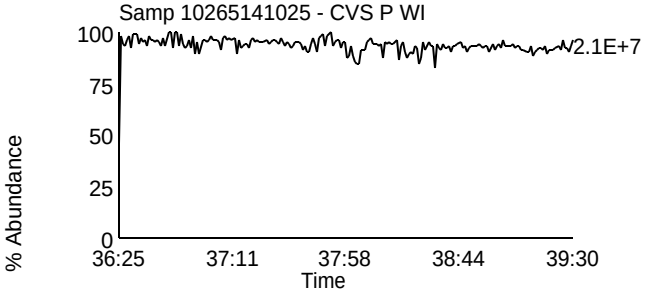
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G4 C1 - 380.976
Samp 10265141025 - CVS P WI

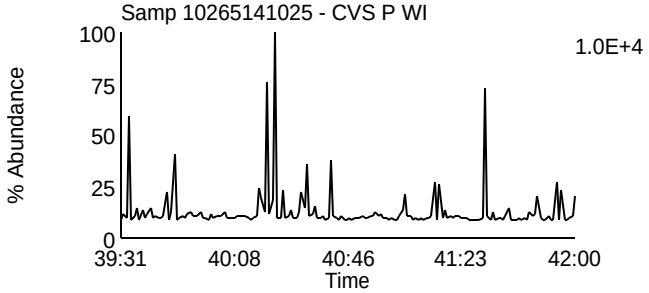


Homologue Group: Octas

Data File Name: U140513B_04
Date Acquired: 5/13/2014
Sample Description: Samp 10265141025 - CVS P WI

Lab Sample ID: 10265141025
Client Sample ID: MAK124C
Instrument: 10MSHR06 (U)

Data File: U140513B_04 G5 C4 - 441.7428
Samp 10265141025 - CVS P WI



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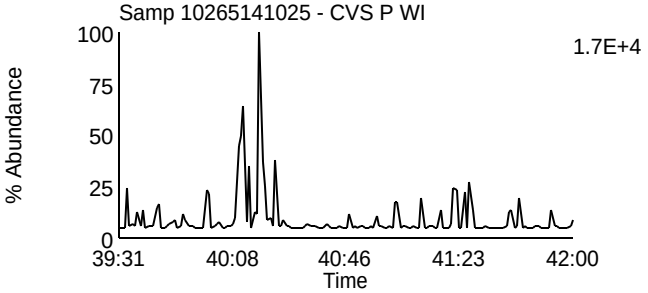
Samp 10265141025 - CVS P WI



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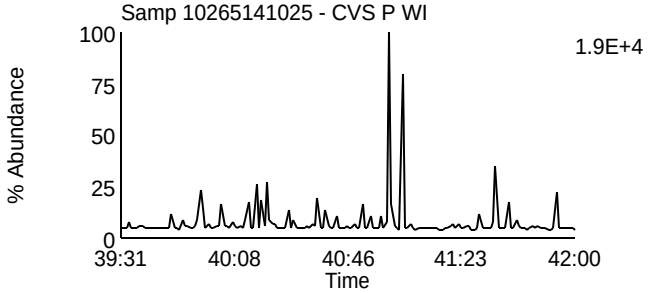
Samp 10265141025 - CVS P WI



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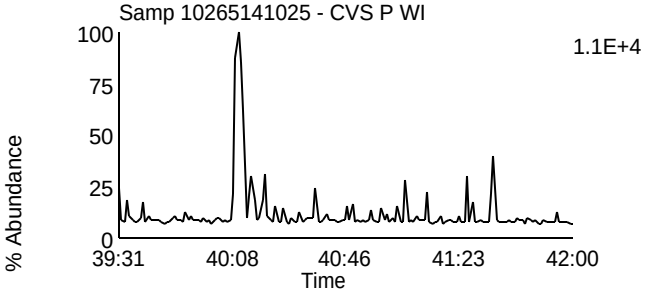
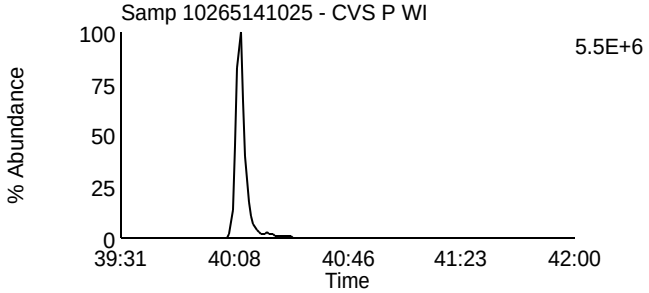
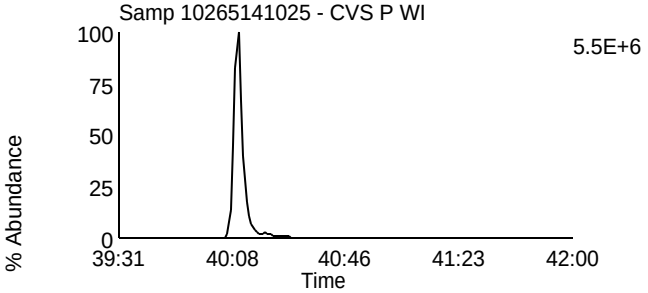
Samp 10265141025 - CVS P WI



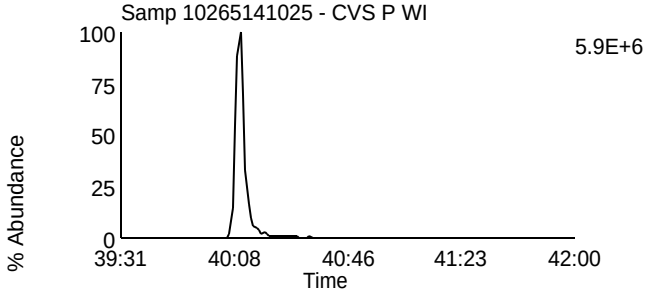
Data File: U140513B_04 G5 C11 - 469.7779
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G5 C11 - 469.7779
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G5 C12 - 471.7749
Samp 10265141025 - CVS P WI



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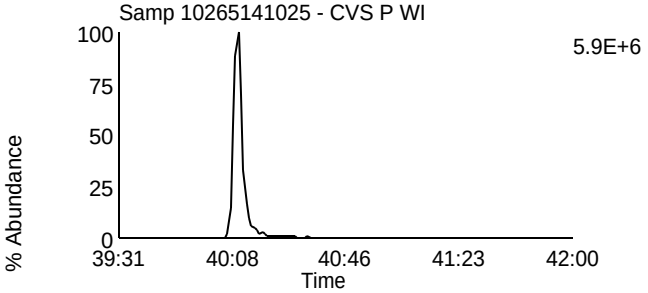
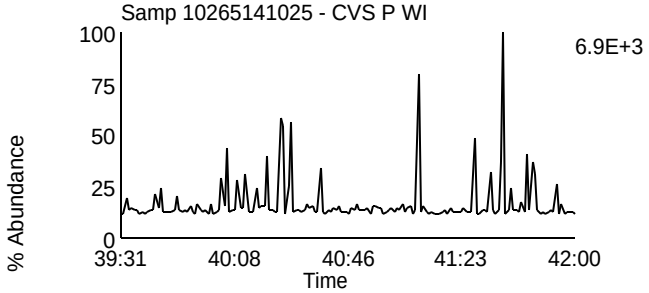
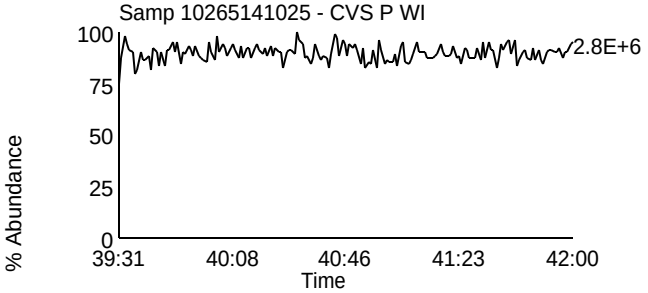


Data File: U140513B_04 G5 C13 - 513.6775
Samp 10265141025 - CVS P WI



Data File: U140513B_04 G5 C2 - 430.9728
Samp 10265141025 - CVS P WI

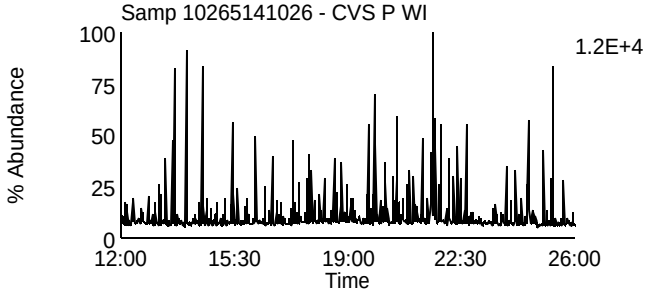


Homologue Group: Tetras

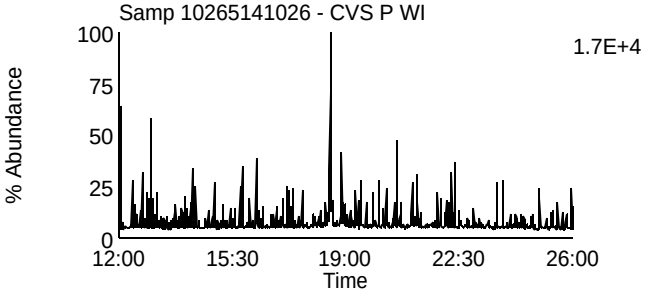
Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

Data File: U140513B_05 G1 C1 - 303.9016
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G1 C7 - 319.8965
Samp 10265141026 - CVS P WI



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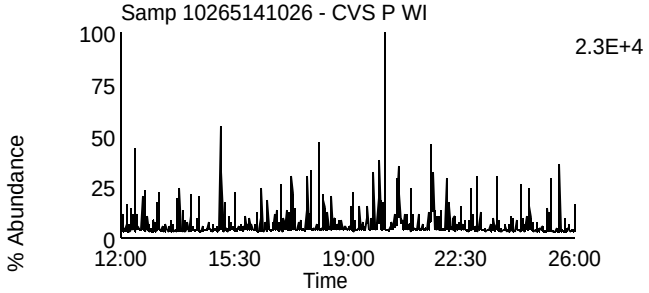
Samp 10265141026 - CVS P WI



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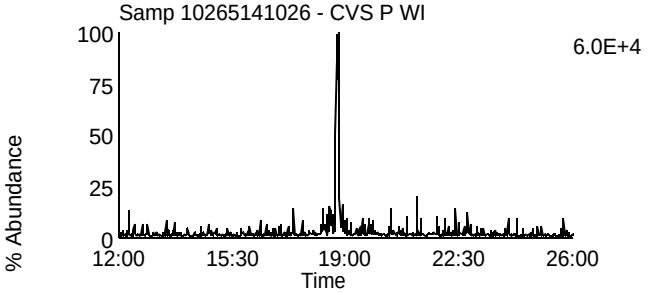
Samp 10265141026 - CVS P WI



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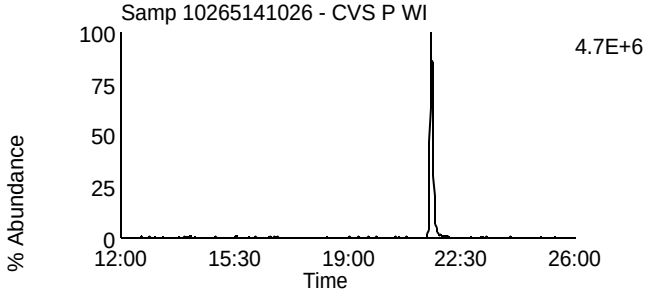
Samp 10265141026 - CVS P WI



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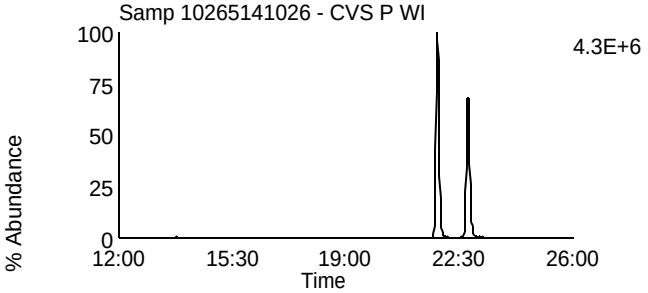
Samp 10265141026 - CVS P WI



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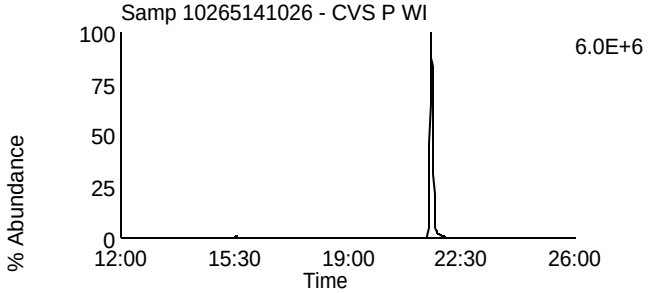
Samp 10265141026 - CVS P WI



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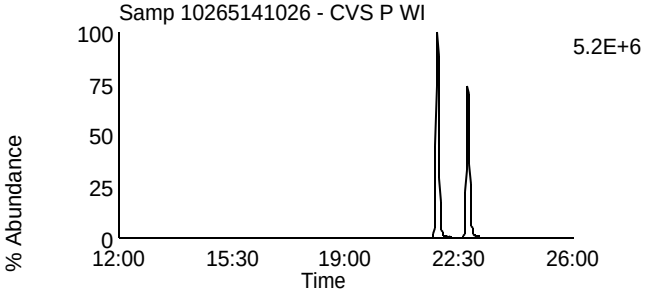
Samp 10265141026 - CVS P WI



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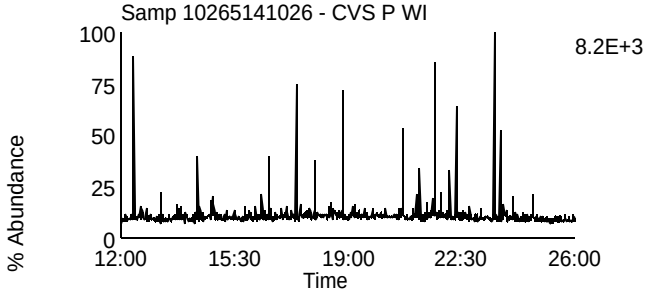
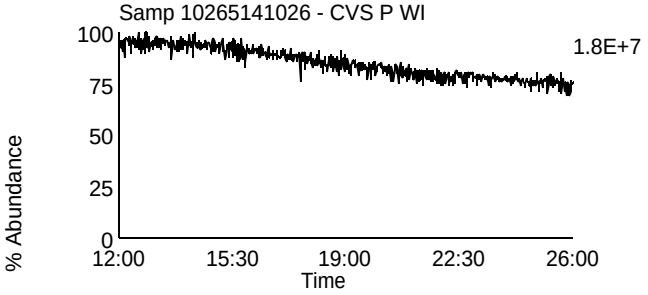
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G1 C5 - 318.9792
Samp 10265141026 - CVS P WI

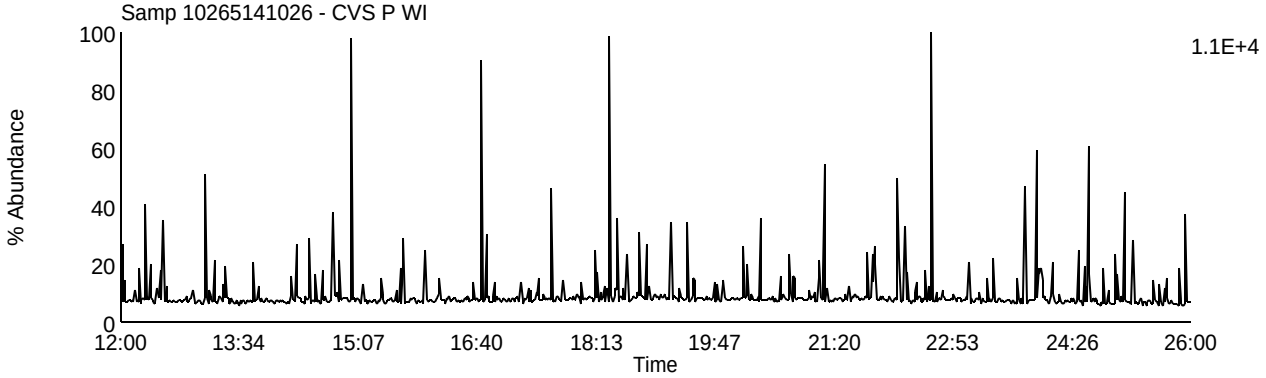


Homologue Group: Penta & Cleanup

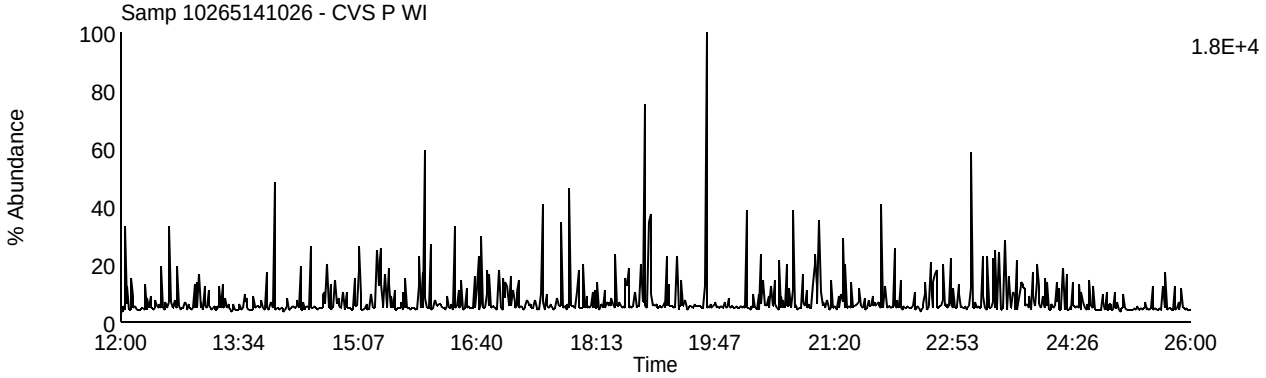
Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

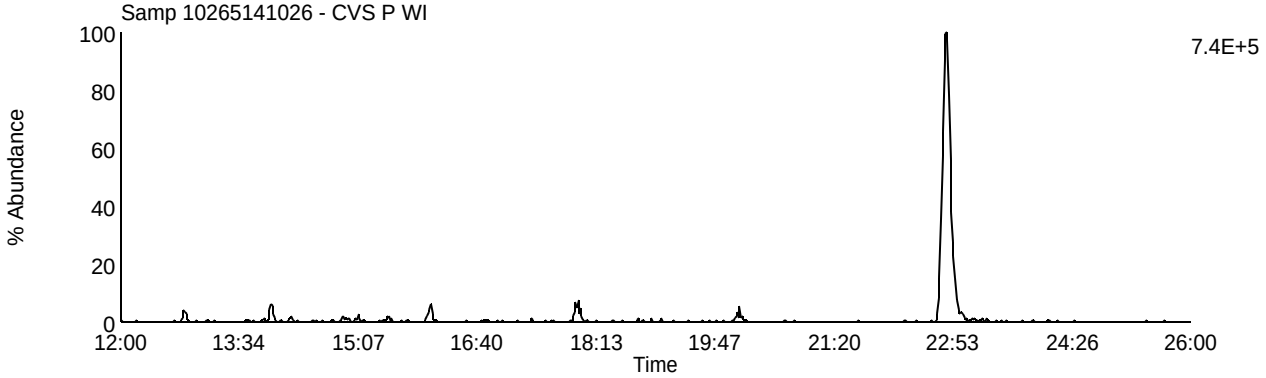
Data File: U140513B_05 G1 C12 - 339.8597
Samp 10265141026 - CVS P WI



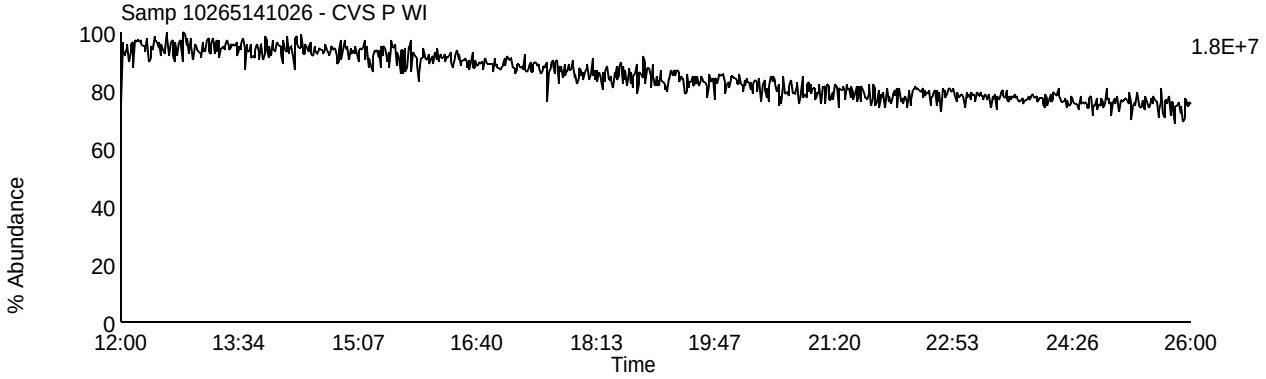
Data File: U140513B_05 G1 C13 - 341.8567
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G1 C9 - 327.8847
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G1 C5 - 318.9792
Samp 10265141026 - CVS P WI

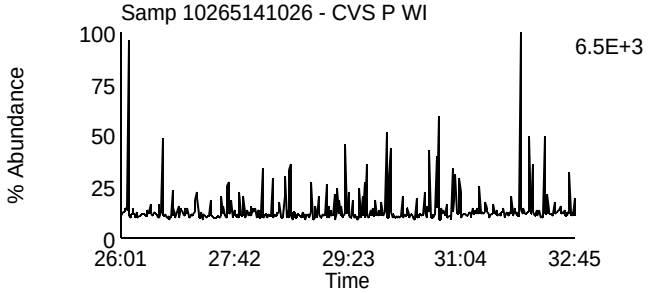


Homologue Group: Pentas

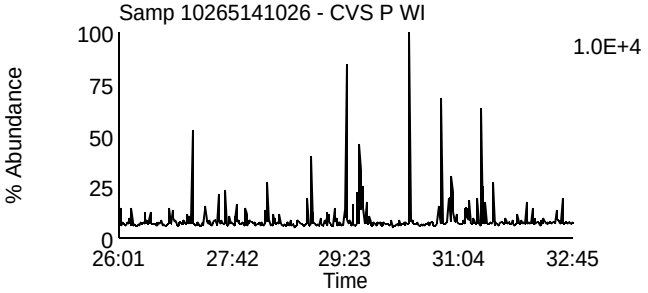
Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

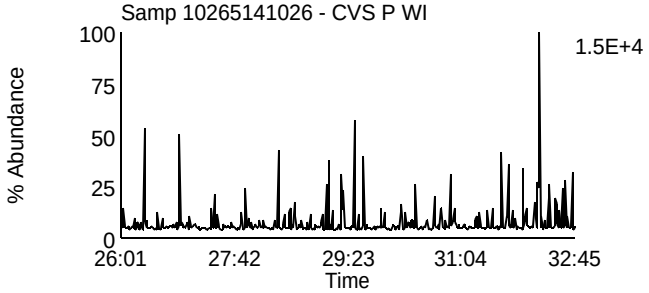
Data File: U140513B_05 G2 C1 - 339.8597
Samp 10265141026 - CVS P WI



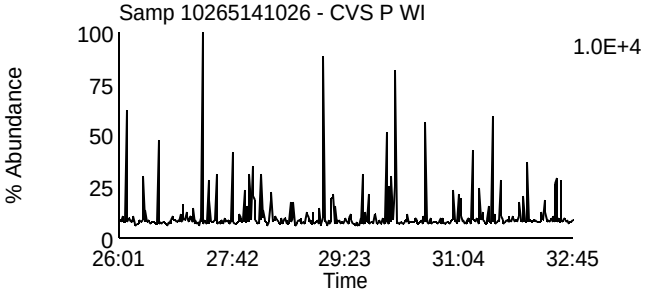
Data File: U140513B_05 G2 C4 - 353.8576
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G2 C2 - 341.8567
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G2 C8 - 355.8546
Samp 10265141026 - CVS P WI



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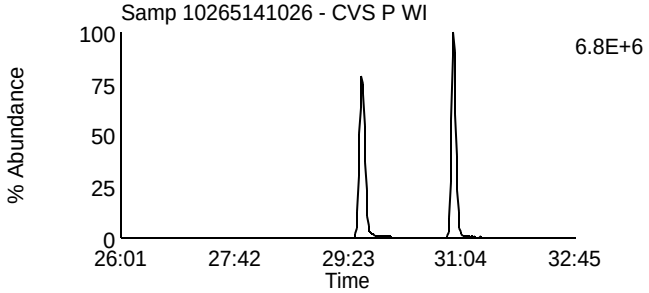
Samp 10265141026 - CVS P WI



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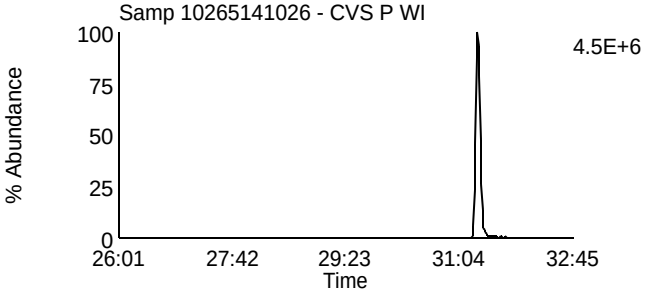
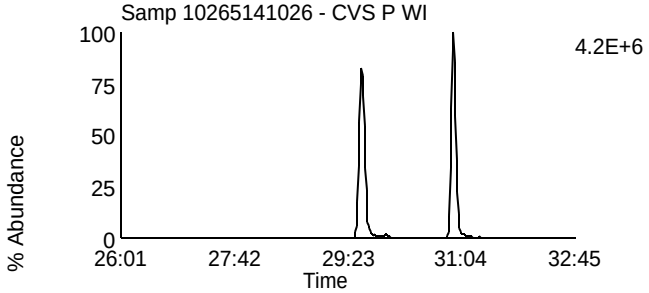
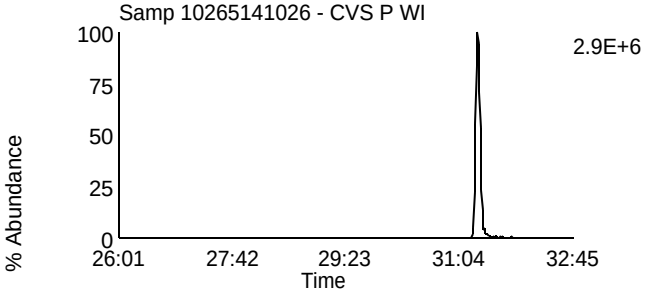
Samp 10265141026 - CVS P WI



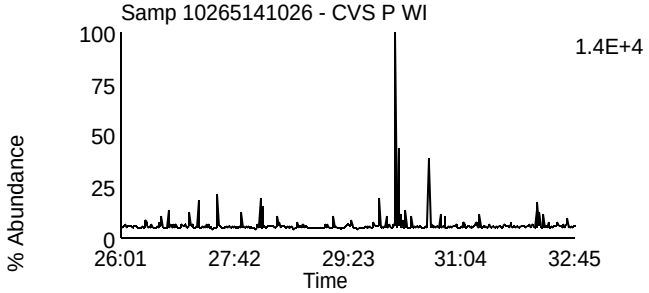
Data File: U140513B_05 G2 C5 - 353.8969
Samp 10265141026 - CVS P WI



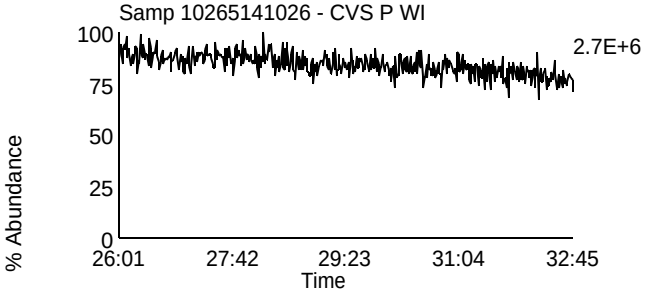
Data File: U140513B_05 G2 C11 - 369.8918
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G2 C12 - 409.7974
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G2 C6 - 354.9792
Samp 10265141026 - CVS P WI

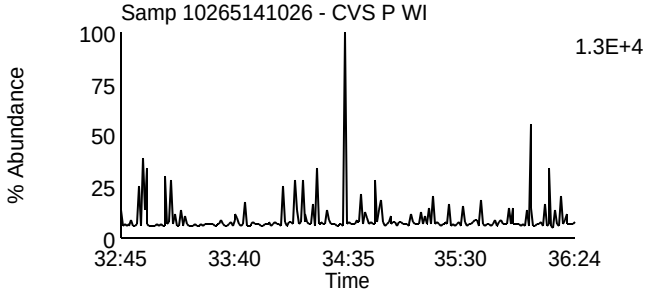


Homologue Group: Hexas

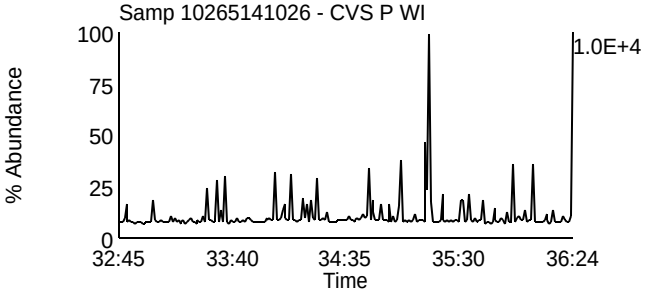
Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

Data File: U140513B_05 G3 C1 - 373.8207
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G3 C7 - 389.8156
Samp 10265141026 - CVS P WI



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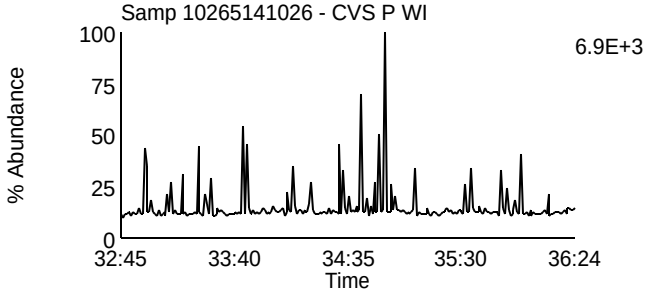
Samp 10265141026 - CVS P WI



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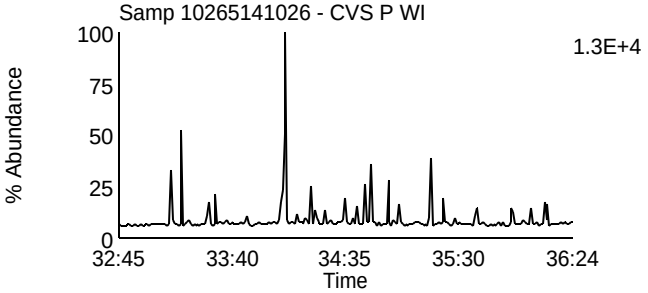
Samp 10265141026 - CVS P WI



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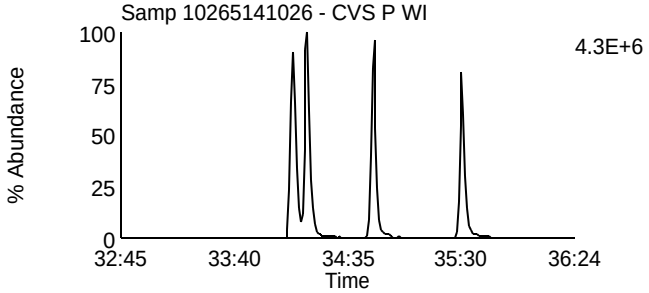
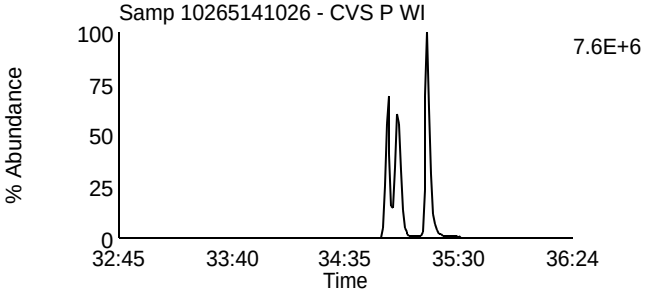
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G3 C9 - 401.8559
Samp 10265141026 - CVS P WI



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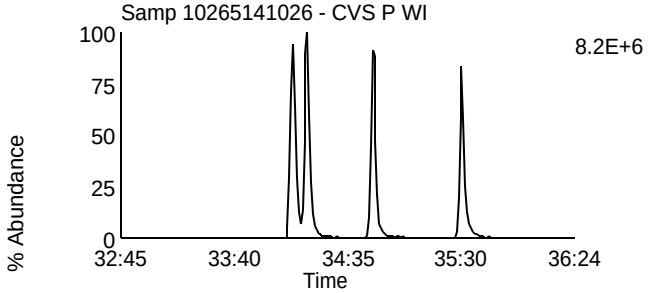
Samp 10265141026 - CVS P WI



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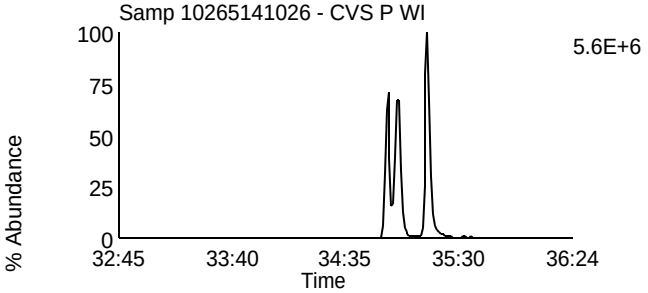

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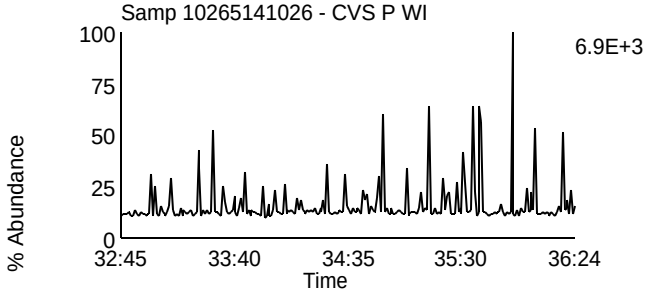
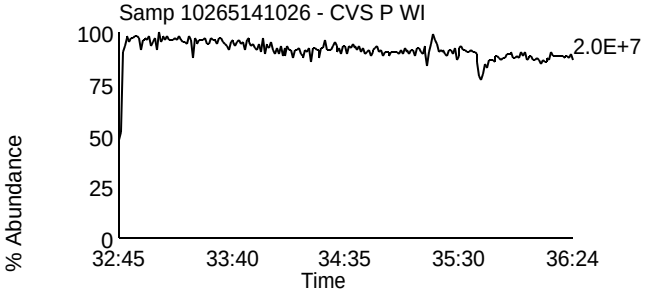
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G3 C3 - 380.976
Samp 10265141026 - CVS P WI

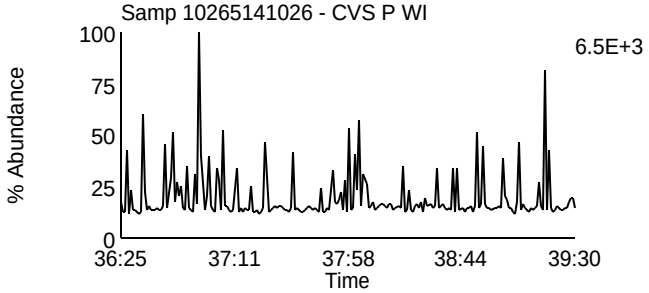


Homologue Group: Heptas

Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

Data File: U140513B_05 G4 C3 - 407.7818
Samp 10265141026 - CVS P WI



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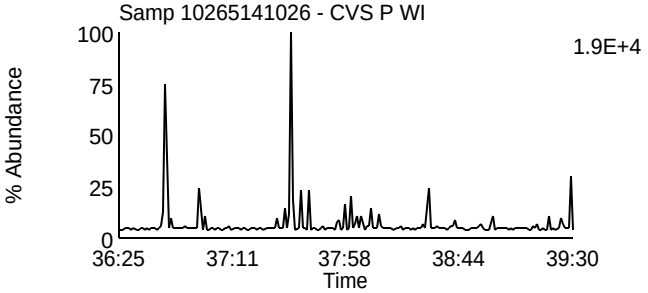
Samp 10265141026 - CVS P WI



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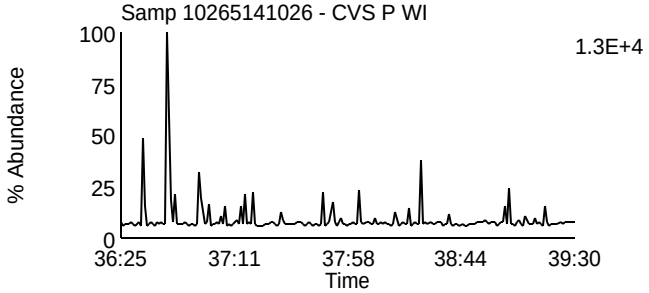
Samp 10265141026 - CVS P WI



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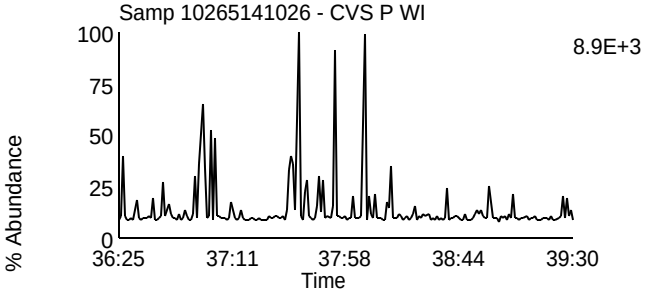
Samp 10265141026 - CVS P WI



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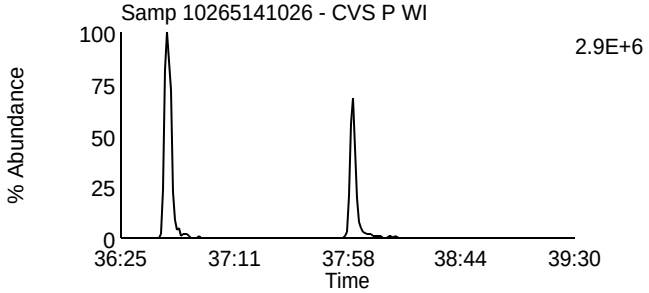
Samp 10265141026 - CVS P WI



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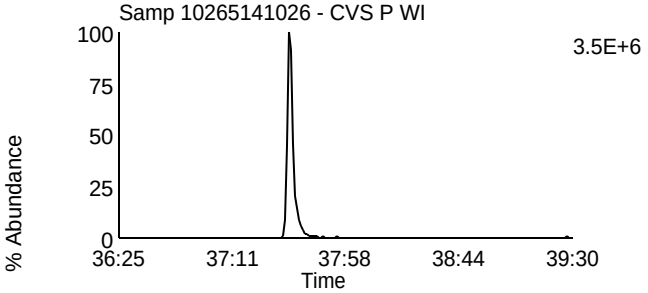
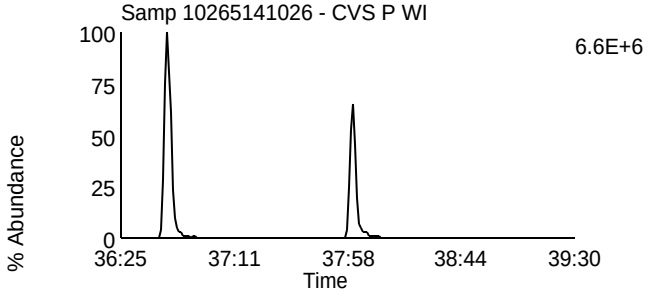
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G4 C7 - 419.822
Samp 10265141026 - CVS P WI



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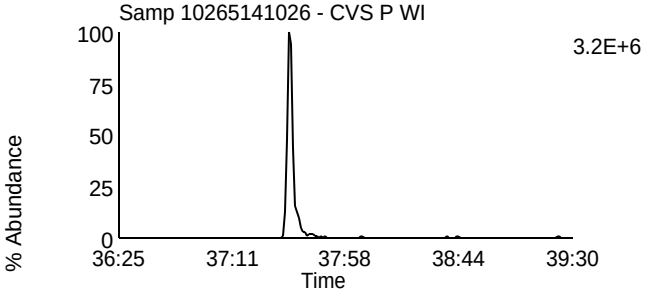
Samp 10265141026 - CVS P WI



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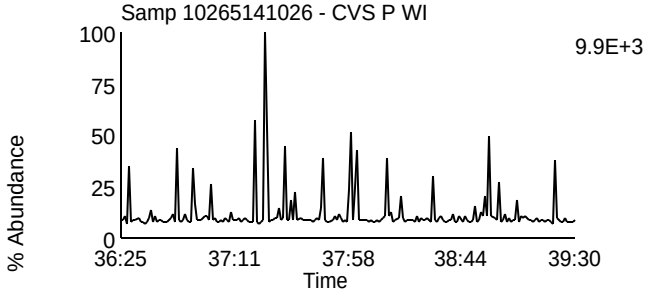
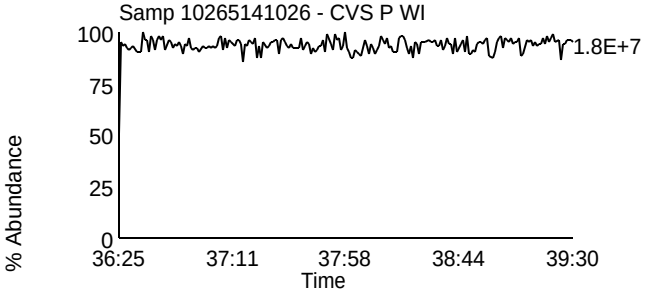
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G4 C1 - 380.976
Samp 10265141026 - CVS P WI

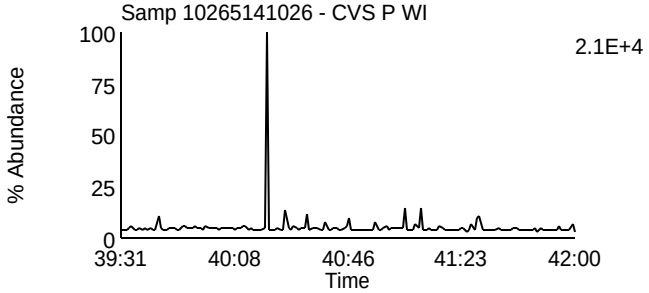


Homologue Group: Octas

Data File Name: U140513B_05
Date Acquired: 5/14/2014
Sample Description: Samp 10265141026 - CVS P WI

Lab Sample ID: 10265141026
Client Sample ID: MAK125C
Instrument: 10MSHR06 (U)

Data File: U140513B_05 G5 C4 - 441.7428
Samp 10265141026 - CVS P WI



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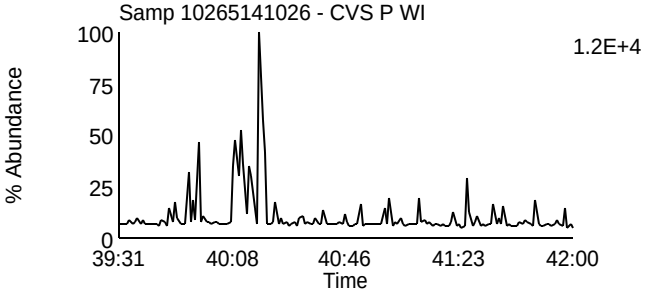
Samp 10265141026 - CVS P WI



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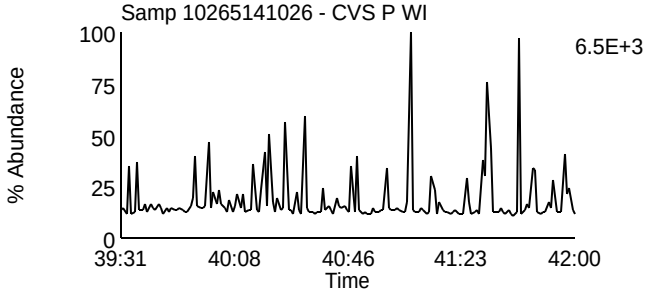
Samp 10265141026 - CVS P WI



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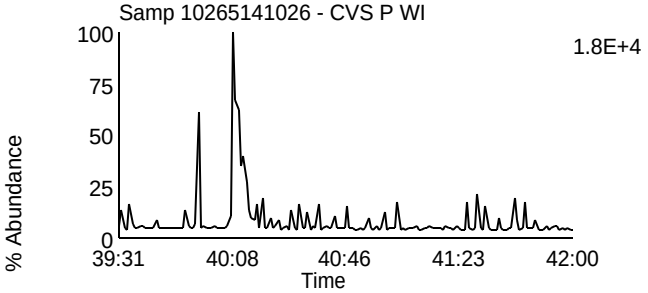
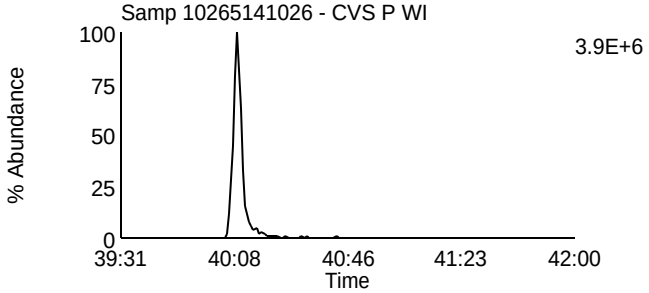
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G5 C11 - 469.7779
Samp 10265141026 - CVS P WI



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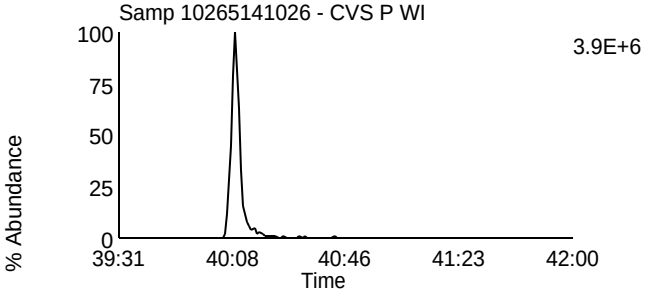
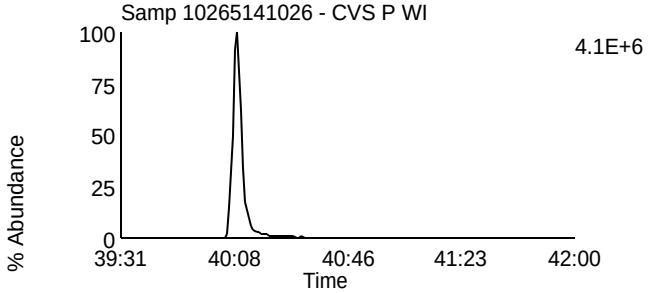
Samp 10265141026 - CVS P WI



Data File: U140513B_05 G5 C12 - 471.7749
Samp 10265141026 - CVS P WI



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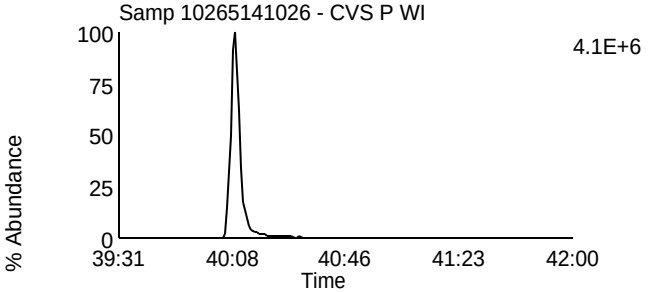

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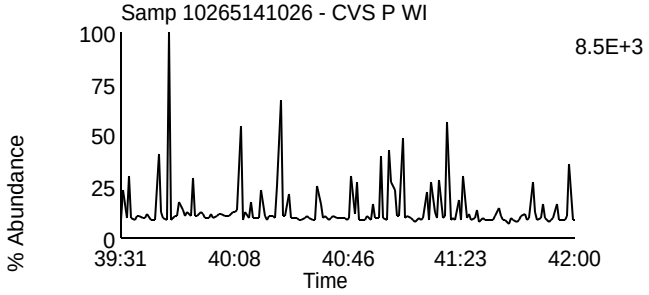
Samp 10265141026 - CVS P WI



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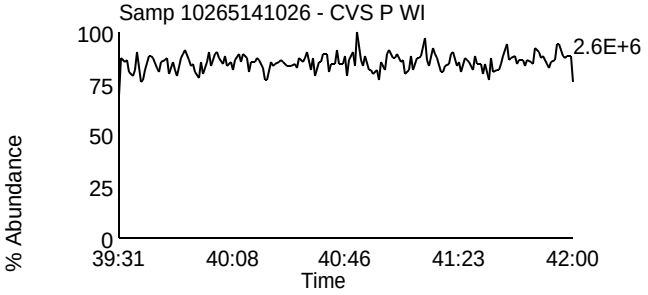
Samp 10265141026 - CVS P WI

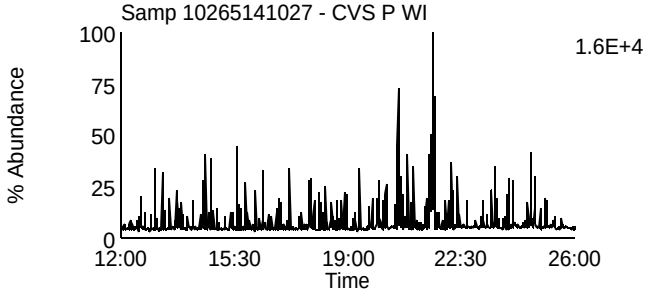


Homologue Group: Tetras

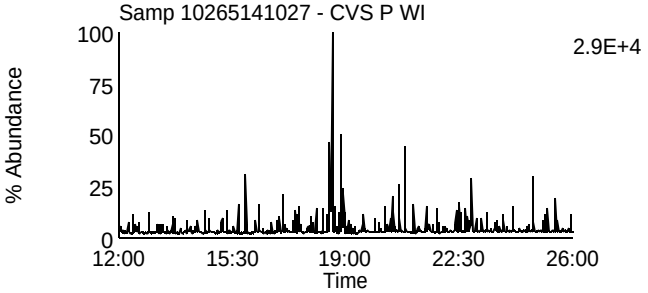
Data File Name: U140513B_06
Date Acquired: 5/14/2014
Sample Description: Samp 10265141027 - CVS P WI

Lab Sample ID: 10265141027
Client Sample ID: MAK126C
Instrument: 10MSHR06 (U)

Data File: U140513B_06 G1 C1 - 303.9016
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G1 C7 - 319.8965
Samp 10265141027 - CVS P WI



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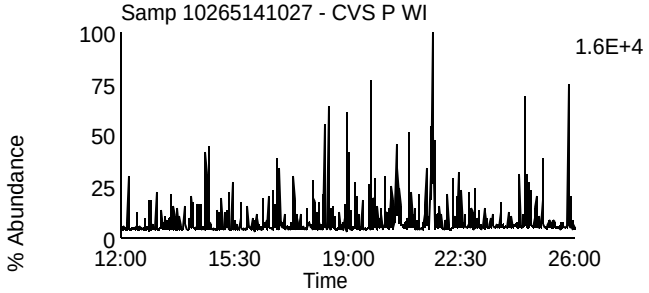
Samp 10265141027 - CVS P WI



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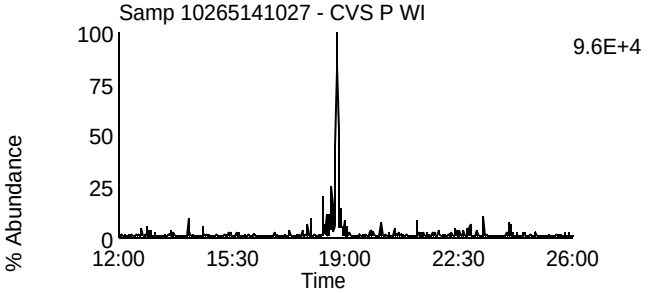
Samp 10265141027 - CVS P WI



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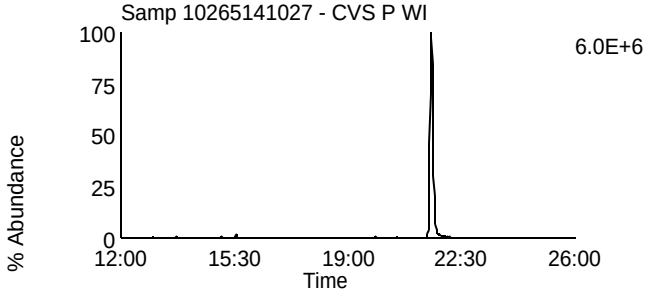
Samp 10265141027 - CVS P WI



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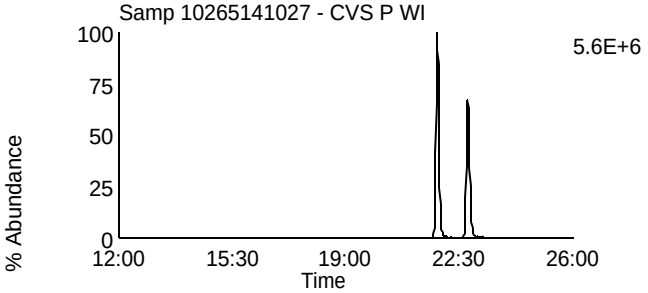
Samp 10265141027 - CVS P WI



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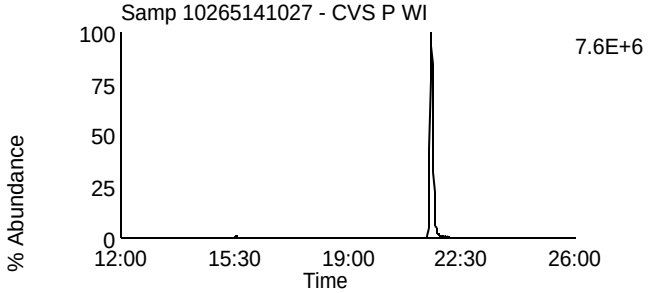

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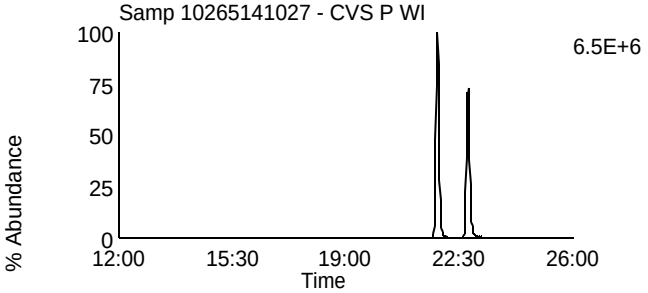

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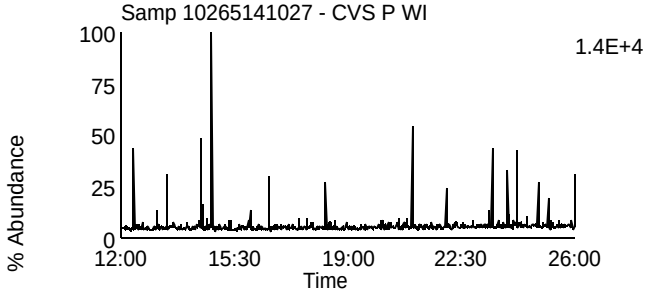
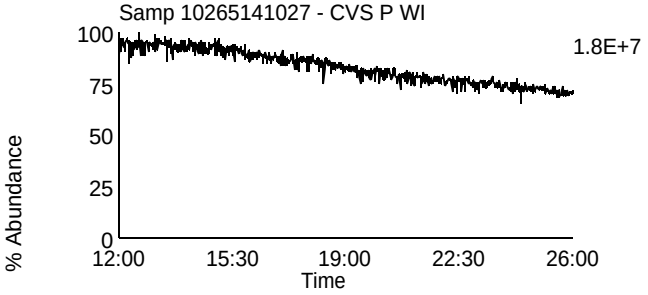
Samp 10265141027 - CVS P WI



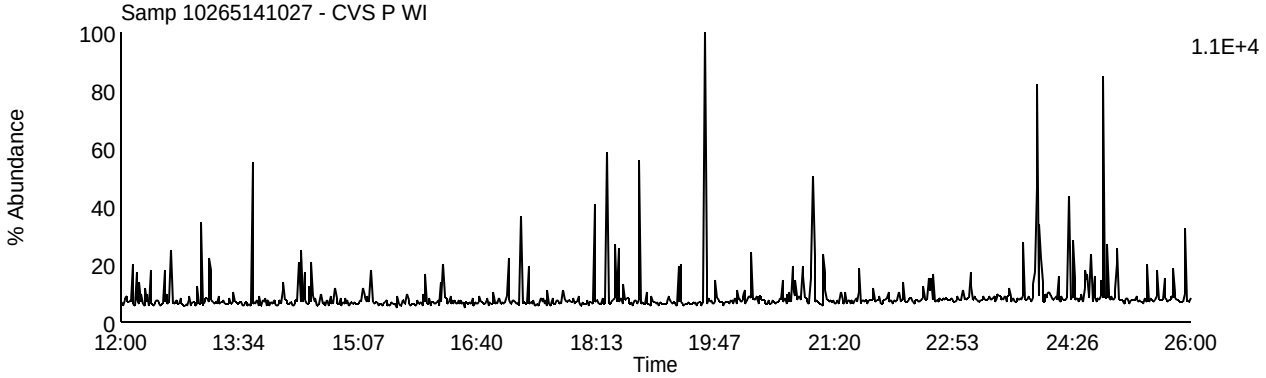
Data File: U140513B_06 G1 C5 - 318.9792
Samp 10265141027 - CVS P WI



Homologue Group: Penta & Cleanup

Data File Name: U140513B_06	Lab Sample ID: 10265141027
Date Acquired: 5/14/2014	Client Sample ID: MAK126C
Sample Description: Samp 10265141027 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513B_06 G1 C12 - 339.8597
Samp 10265141027 - CVS P WI



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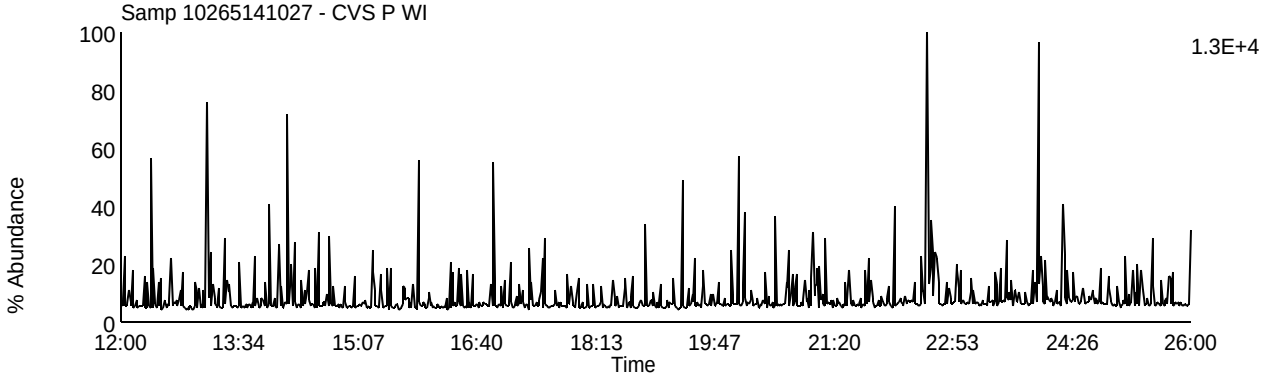
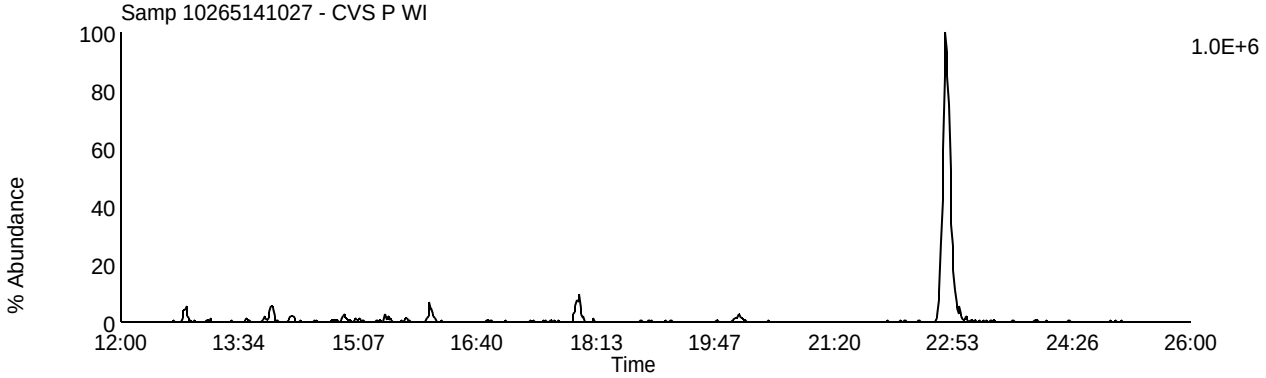


Data File: U140513B_06 G1 C9 - 327.8847
Samp 10265141027 - CVS P WI



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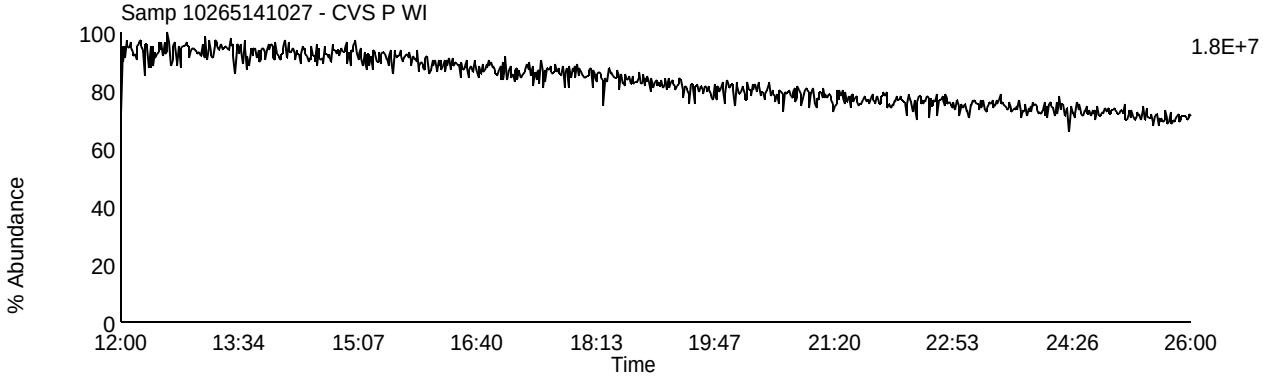
Samp 10265141027 - CVS P WI

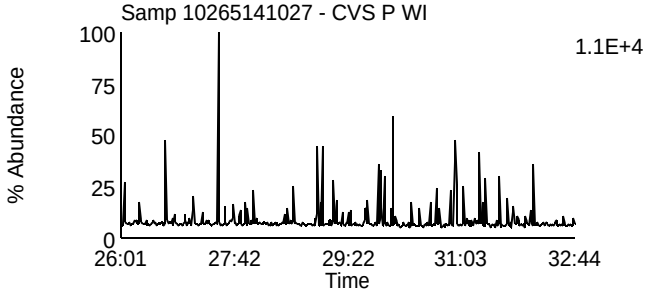


Homologue Group: Pentas

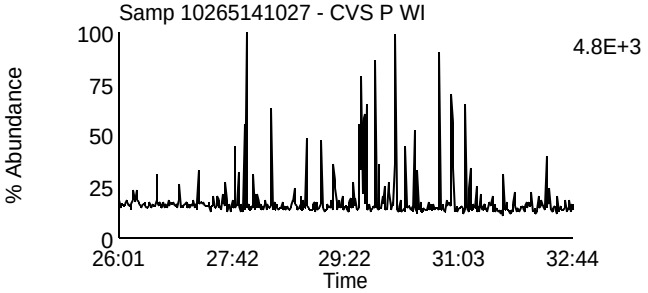
Data File Name: U140513B_06
Date Acquired: 5/14/2014
Sample Description: Samp 10265141027 - CVS P WI

Lab Sample ID: 10265141027
Client Sample ID: MAK126C
Instrument: 10MSHR06 (U)

Data File: U140513B_06 G2 C1 - 339.8597
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G2 C4 - 353.8576
Samp 10265141027 - CVS P WI



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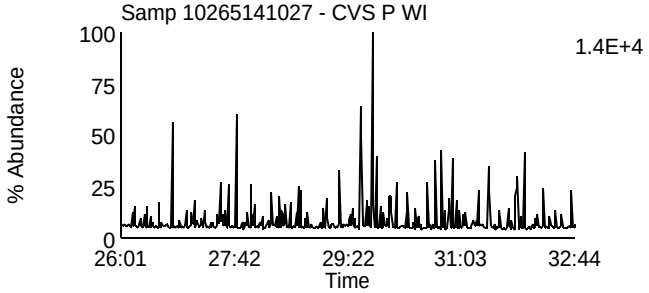
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G2 C8 - 355.8546
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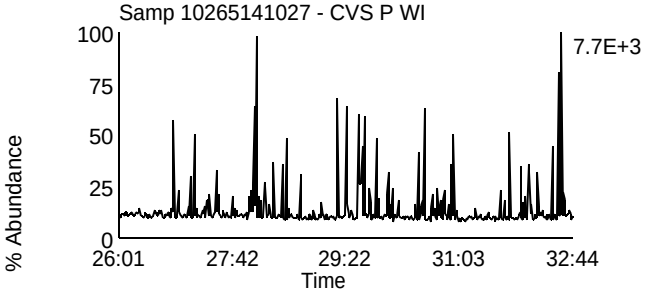
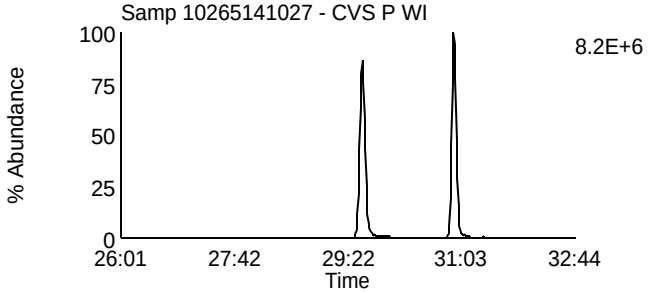
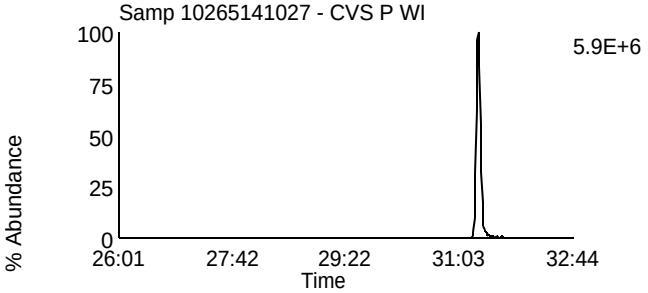


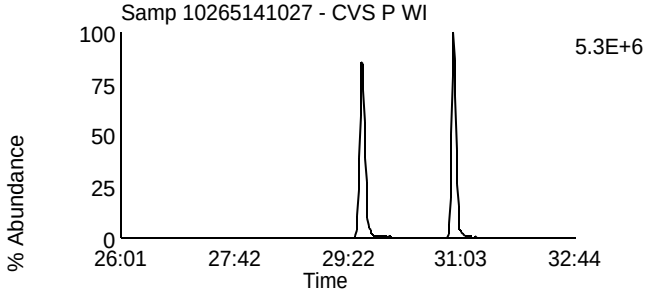
Data File: U140513B_06 G2 C3 - 351.8999
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G2 C10 - 367.8948
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G2 C5 - 353.8969
Samp 10265141027 - CVS P WI



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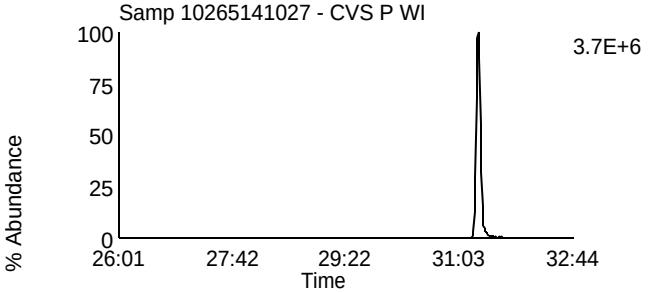
Samp 10265141027 - CVS P WI



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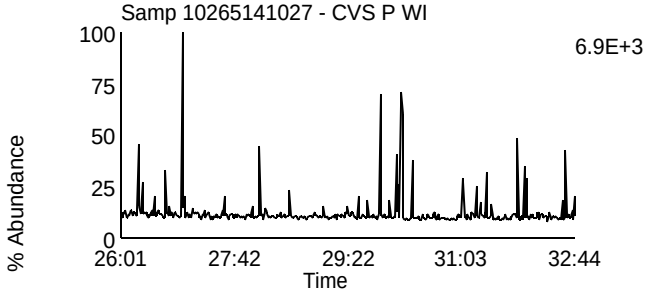
Samp 10265141027 - CVS P WI



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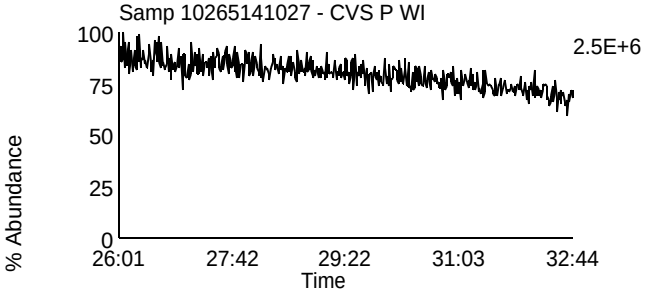
Samp 10265141027 - CVS P WI

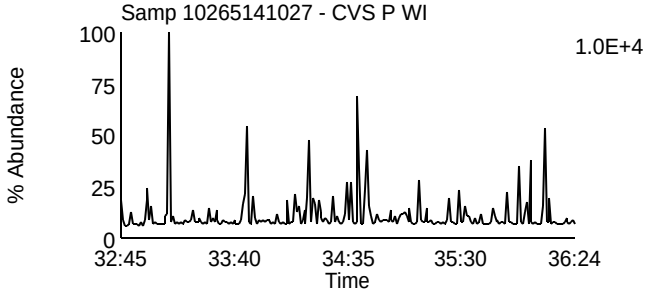


Homologue Group: Hexas

Data File Name: U140513B_06
Date Acquired: 5/14/2014
Sample Description: Samp 10265141027 - CVS P WI

Lab Sample ID: 10265141027
Client Sample ID: MAK126C
Instrument: 10MSHR06 (U)

Data File: U140513B_06 G3 C1 - 373.8207
Samp 10265141027 - CVS P WI



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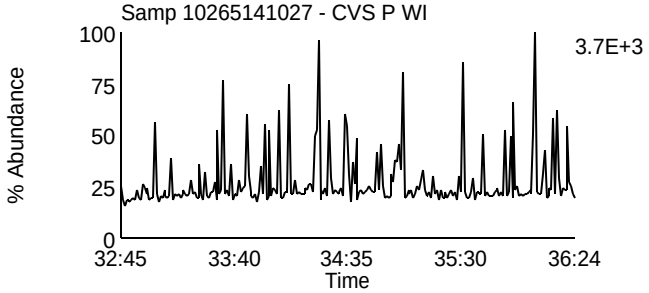
Samp 10265141027 - CVS P WI



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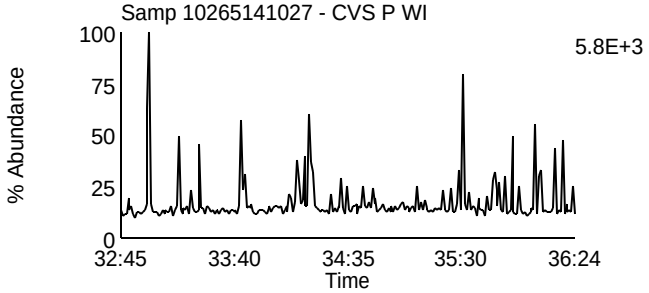
Samp 10265141027 - CVS P WI



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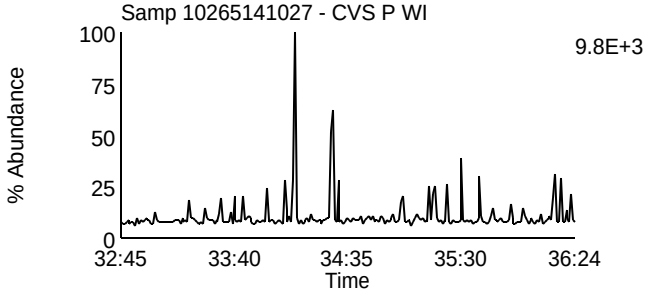
Samp 10265141027 - CVS P WI



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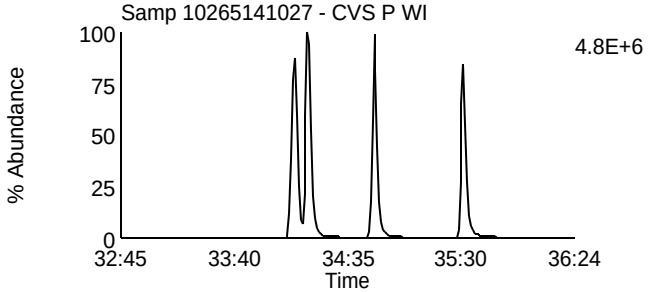
Samp 10265141027 - CVS P WI



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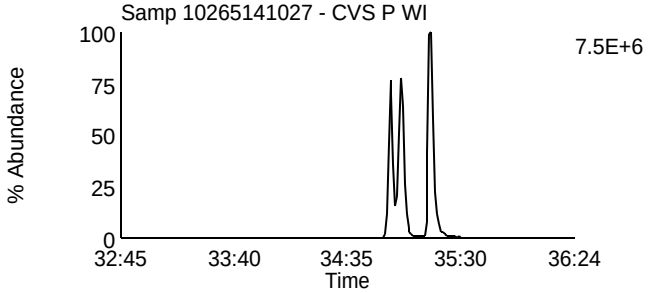
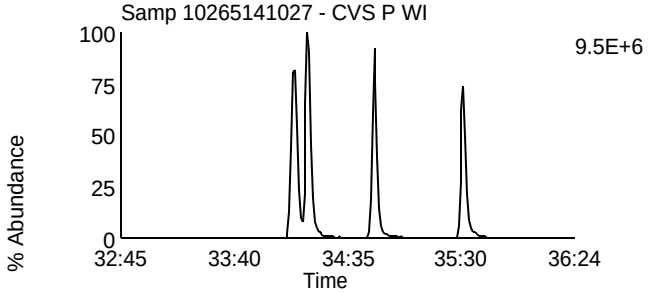
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G3 C6 - 385.861
Samp 10265141027 - CVS P WI



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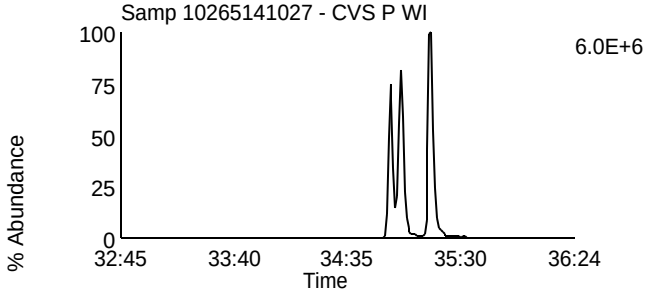
Samp 10265141027 - CVS P WI



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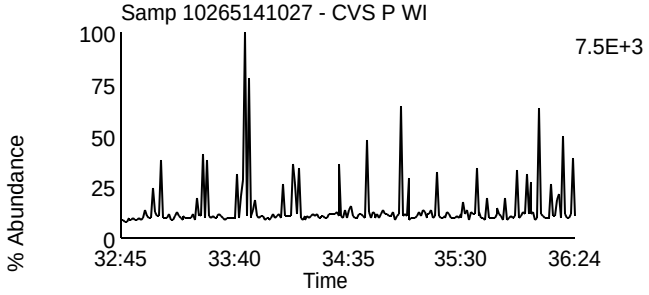
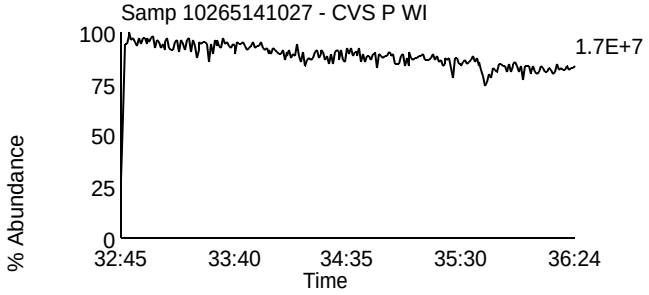
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G3 C3 - 380.976
Samp 10265141027 - CVS P WI

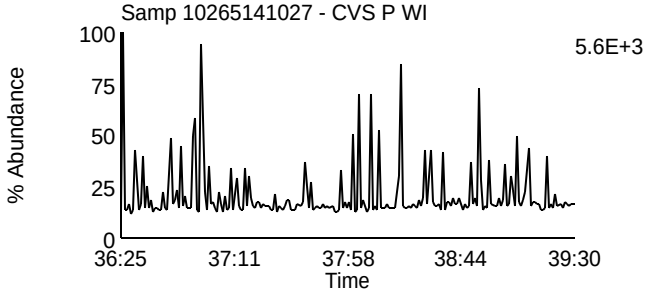


Homologue Group: Heptas

Data File Name: U140513B_06
Date Acquired: 5/14/2014
Sample Description: Samp 10265141027 - CVS P WI

Lab Sample ID: 10265141027
Client Sample ID: MAK126C
Instrument: 10MSHR06 (U)

Data File: U140513B_06 G4 C3 - 407.7818
Samp 10265141027 - CVS P WI



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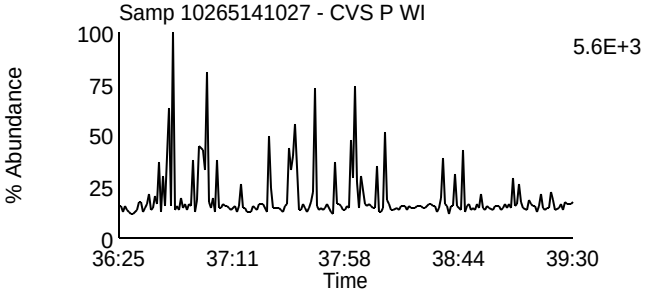
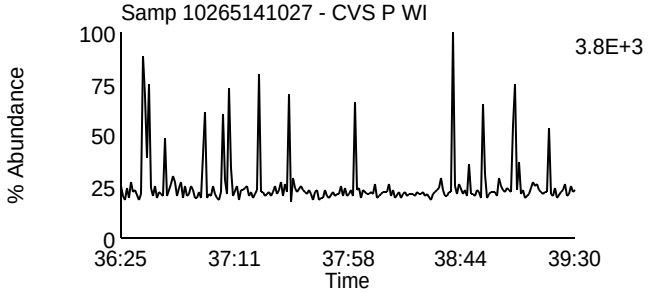
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G4 C4 - 409.7788
Samp 10265141027 - CVS P WI



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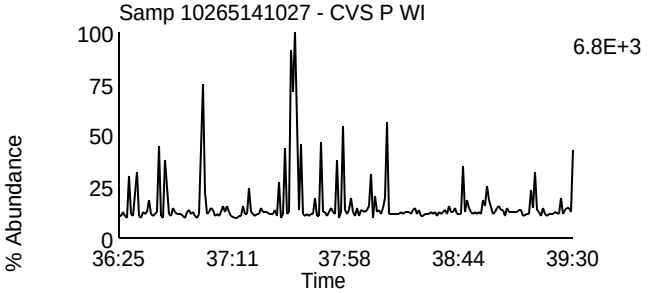
Samp 10265141027 - CVS P WI



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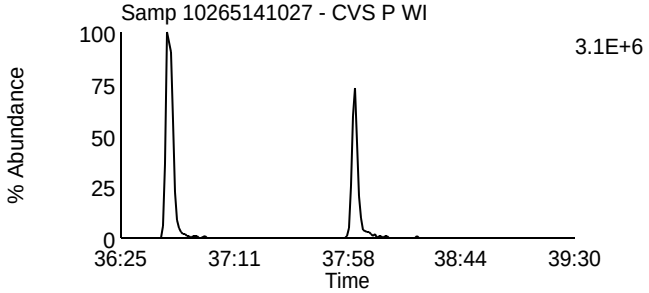
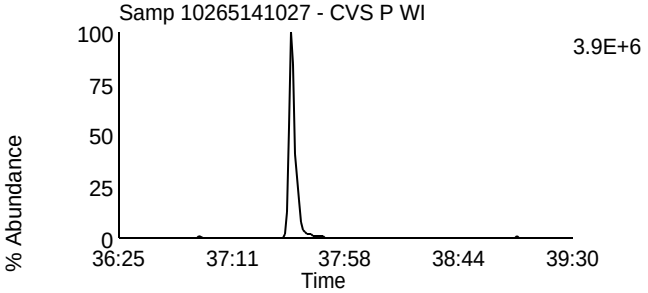
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G4 C11 - 435.8169
Samp 10265141027 - CVS P WI



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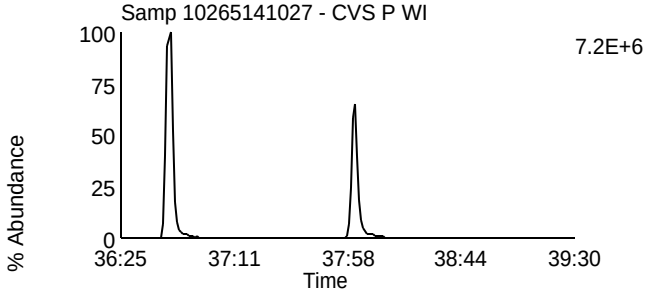
Samp 10265141027 - CVS P WI



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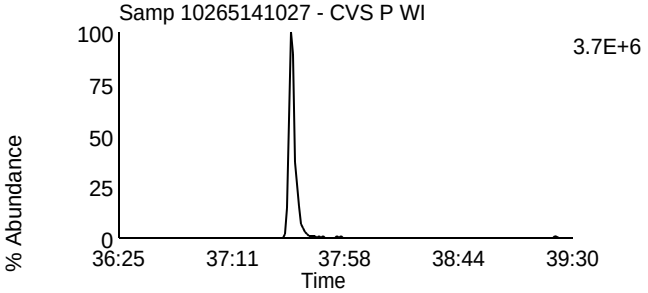

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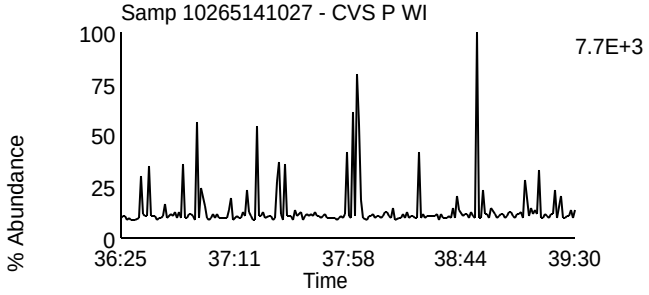
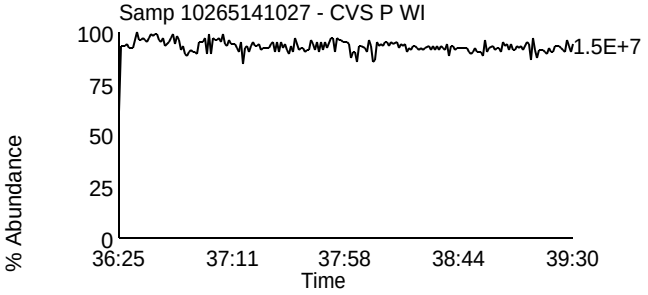
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G4 C1 - 380.976
Samp 10265141027 - CVS P WI

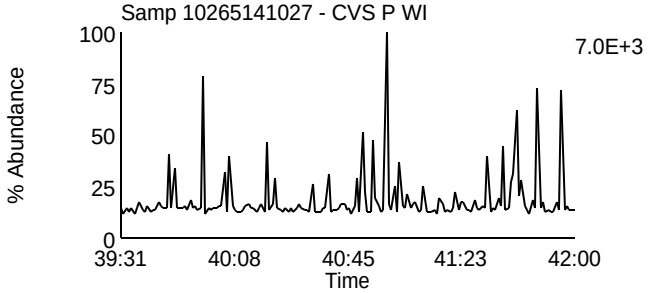


Homologue Group: Octas

Data File Name: U140513B_06
Date Acquired: 5/14/2014
Sample Description: Samp 10265141027 - CVS P WI

Lab Sample ID: 10265141027
Client Sample ID: MAK126C
Instrument: 10MSHR06 (U)

Data File: U140513B_06 G5 C4 - 441.7428
Samp 10265141027 - CVS P WI



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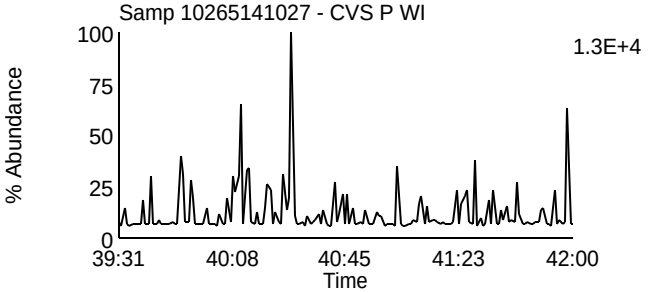
Samp 10265141027 - CVS P WI



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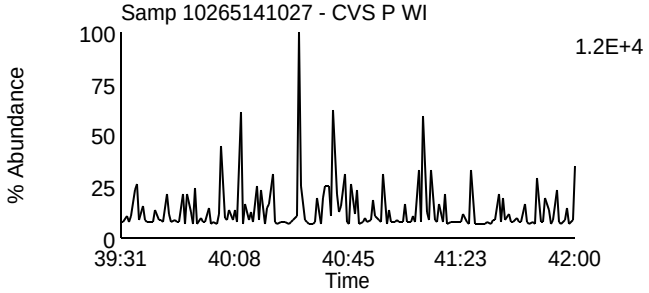
Samp 10265141027 - CVS P WI



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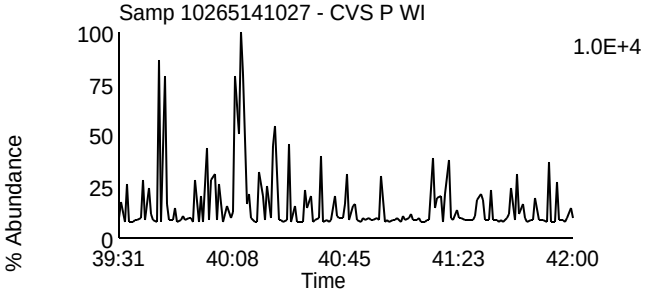
Samp 10265141027 - CVS P WI



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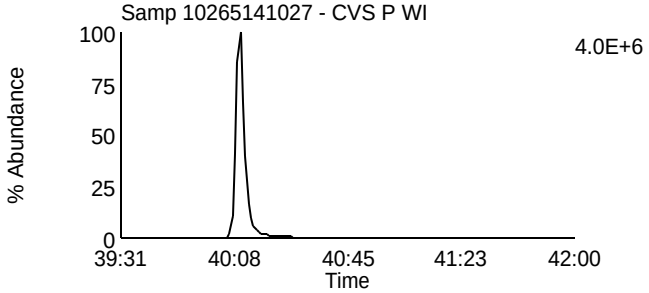
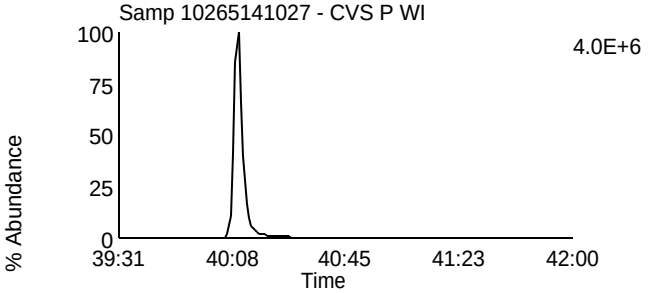
Samp 10265141027 - CVS P WI



Data File: U140513B_06 G5 C11 - 469.7779
Samp 10265141027 - CVS P WI



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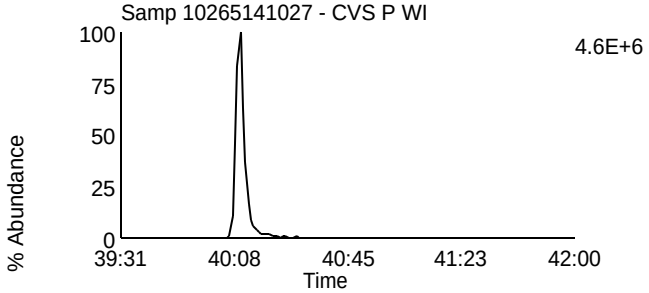
Samp 10265141027 - CVS P WI



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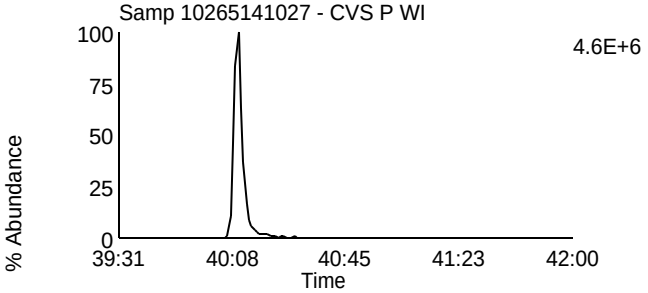
Samp 10265141027 - CVS P WI



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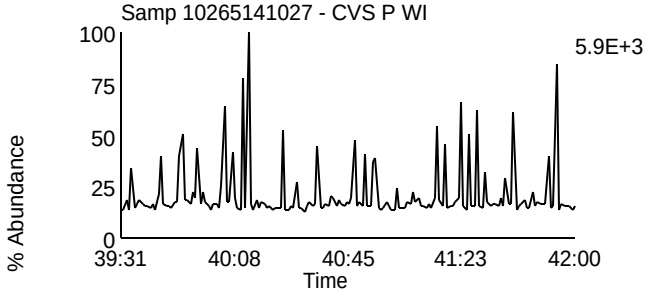
Samp 10265141027 - CVS P WI



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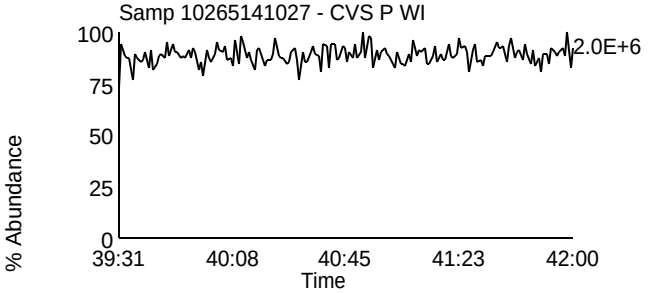
Samp 10265141027 - CVS P WI

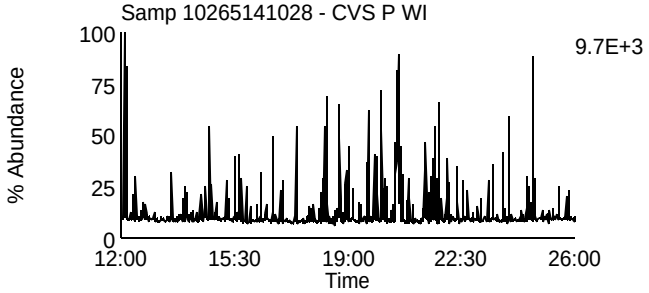


Homologue Group: Tetras

Data File Name: U140513B_07
Date Acquired: 5/14/2014
Sample Description: Samp 10265141028 - CVS P WI

Lab Sample ID: 10265141028
Client Sample ID: MAK127C
Instrument: 10MSHR06 (U)

Data File: U140513B_07 G1 C1 - 303.9016
Samp 10265141028 - CVS P WI



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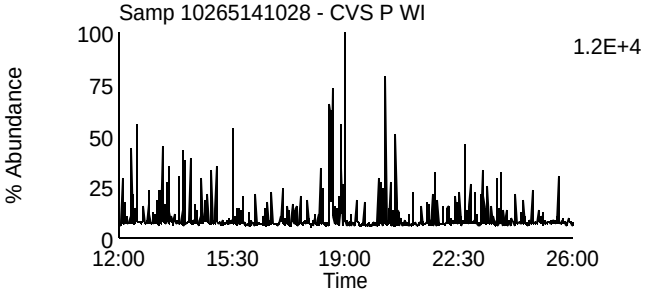
Samp 10265141028 - CVS P WI



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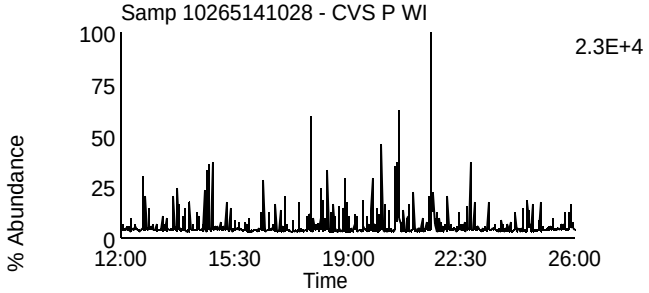
Samp 10265141028 - CVS P WI



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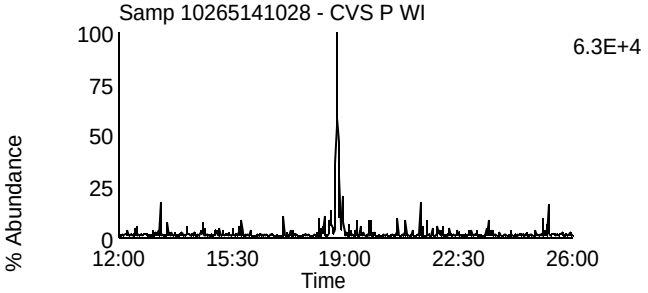

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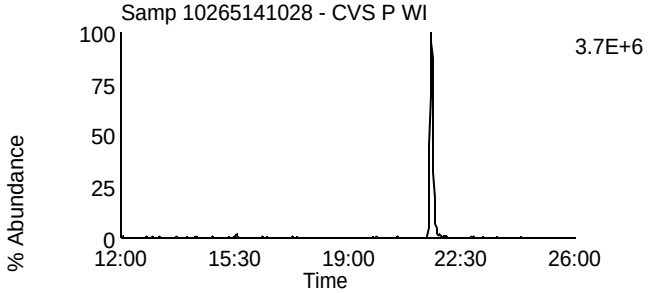
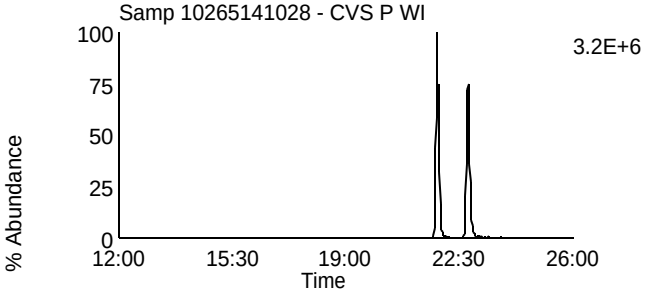
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G1 C10 - 331.9367
Samp 10265141028 - CVS P WI



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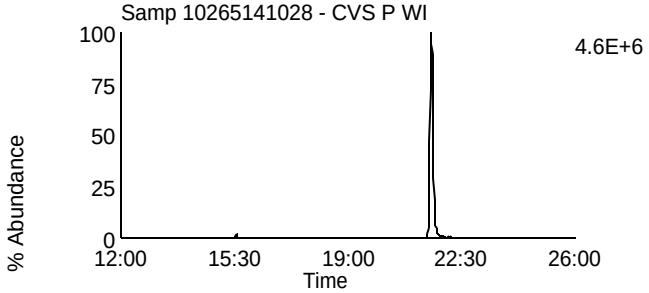

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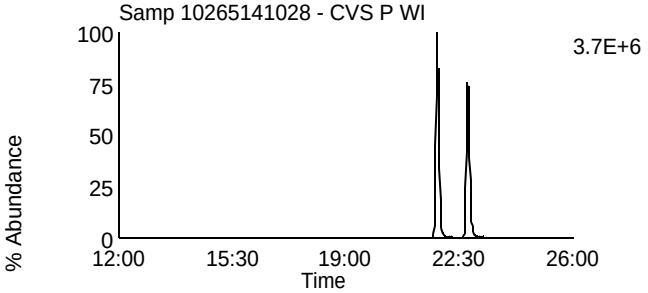
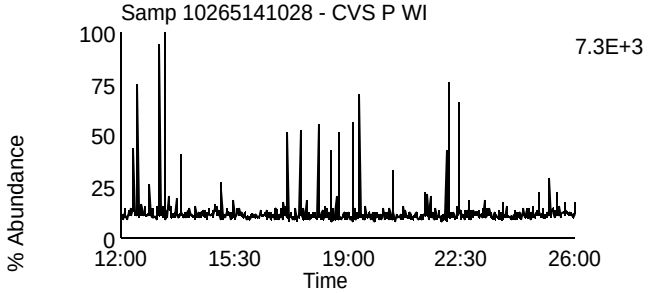
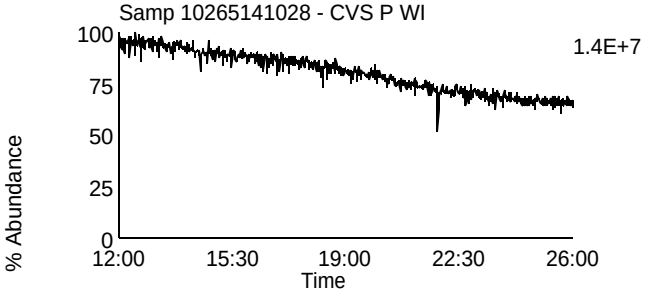
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G1 C14 - 375.8364
Samp 10265141028 - CVS P WI



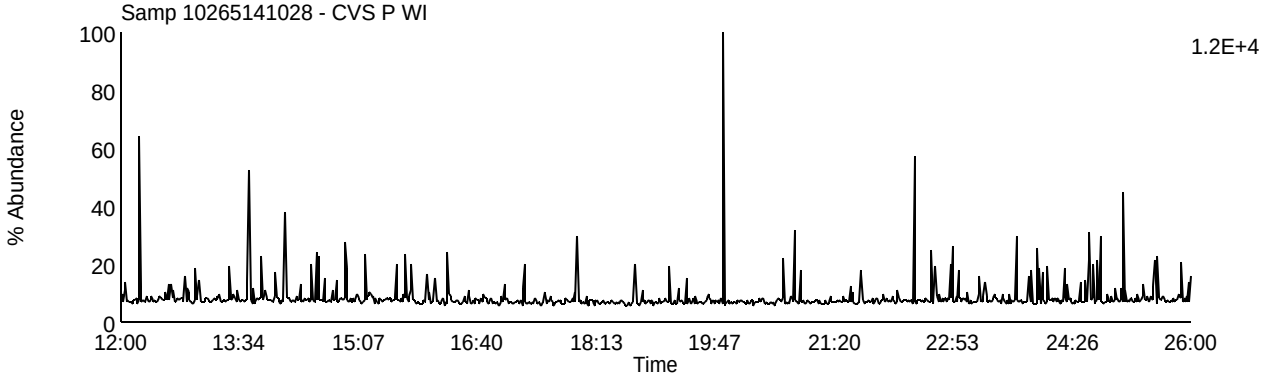
Data File: U140513B_07 G1 C5 - 318.9792
Samp 10265141028 - CVS P WI



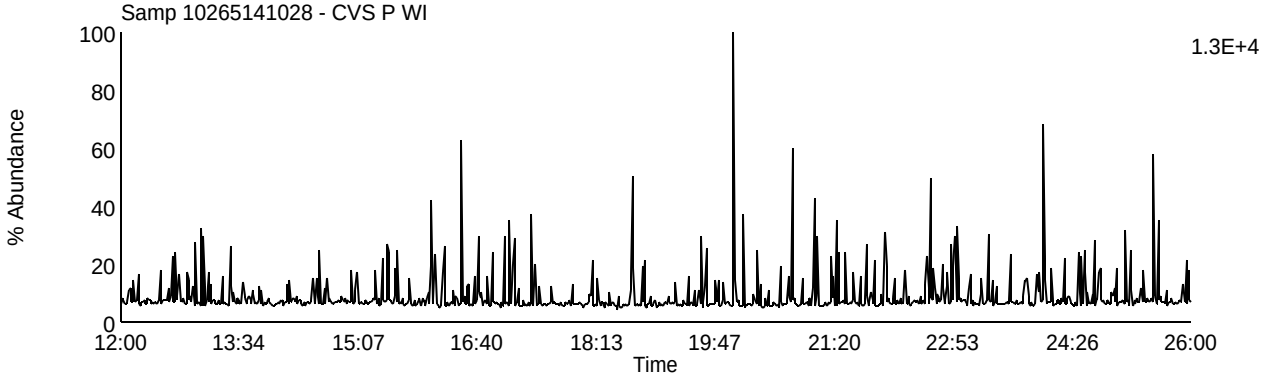
Homologue Group: Penta & Cleanup

Data File Name: U140513B_07	Lab Sample ID: 10265141028
Date Acquired: 5/14/2014	Client Sample ID: MAK127C
Sample Description: Samp 10265141028 - CVS P WI	Instrument: 10MSHR06 (U)

Data File: U140513B_07 G1 C12 - 339.8597
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G1 C13 - 341.8567
Samp 10265141028 - CVS P WI



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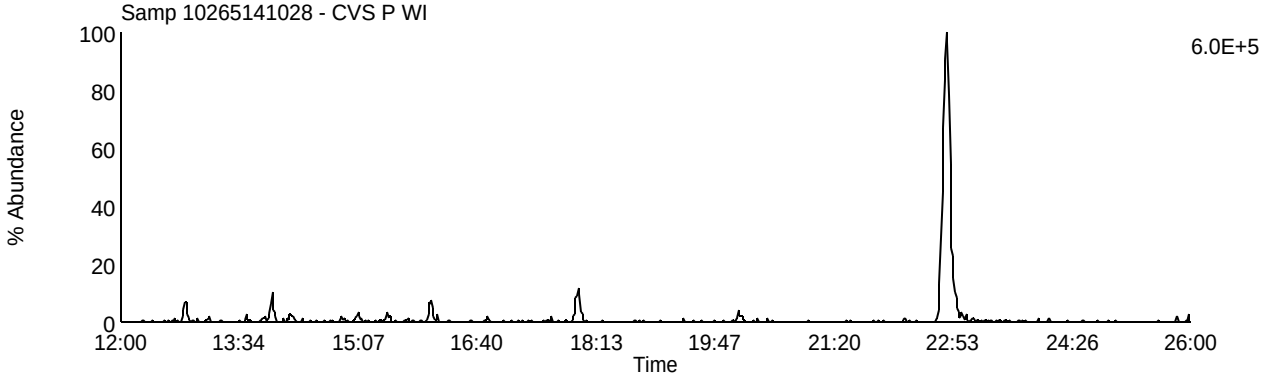
Samp 10265141028 - CVS P WI



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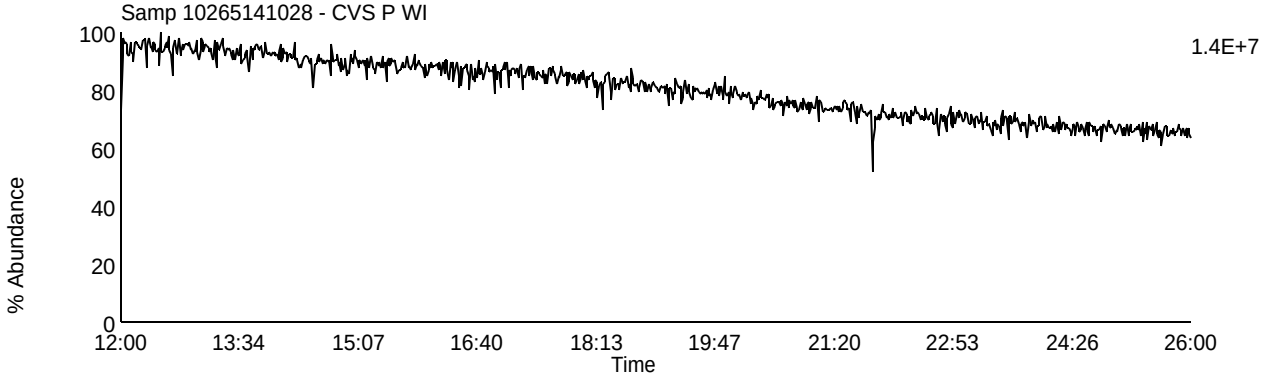
Samp 10265141028 - CVS P WI

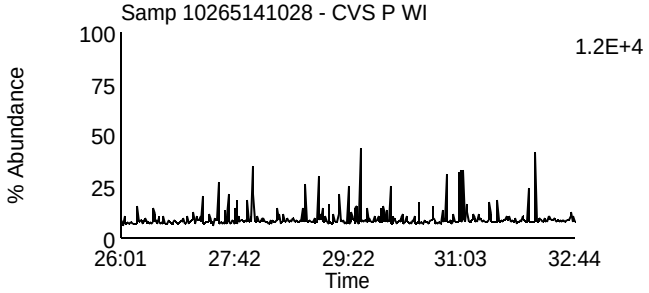


Homologue Group: Pentas

Data File Name: U140513B_07
Date Acquired: 5/14/2014
Sample Description: Samp 10265141028 - CVS P WI

Lab Sample ID: 10265141028
Client Sample ID: MAK127C
Instrument: 10MSHR06 (U)

Data File: U140513B_07 G2 C1 - 339.8597
Samp 10265141028 - CVS P WI



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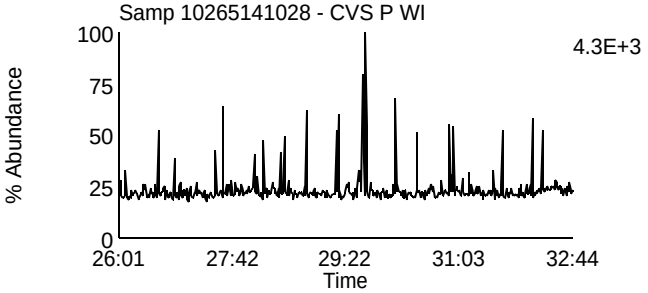
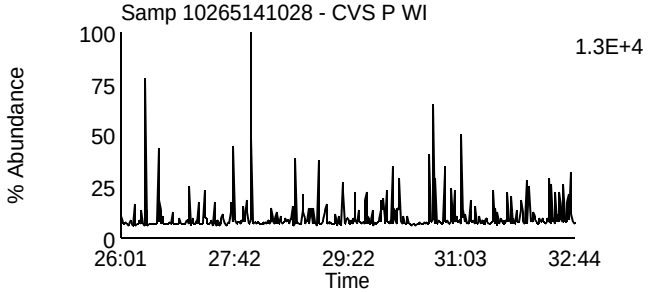
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G2 C2 - 341.8567
Samp 10265141028 - CVS P WI



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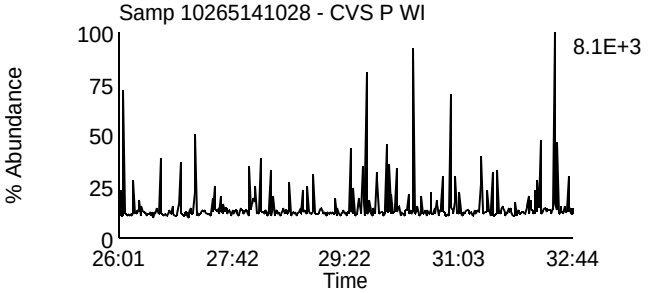
Samp 10265141028 - CVS P WI



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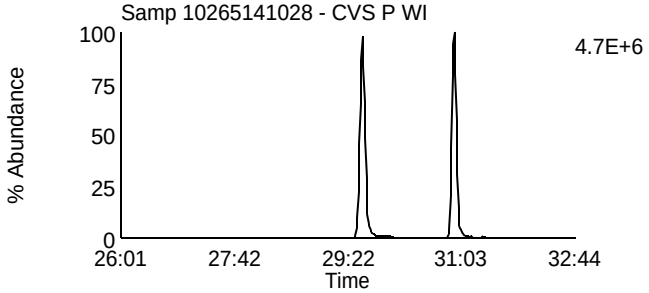
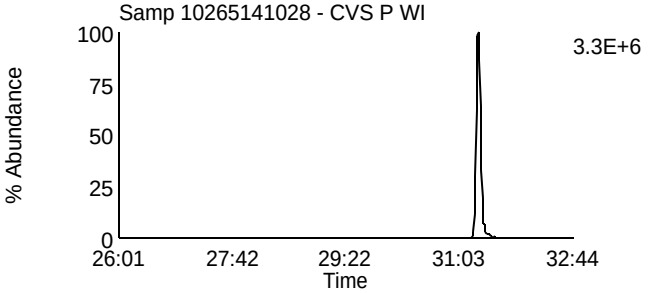
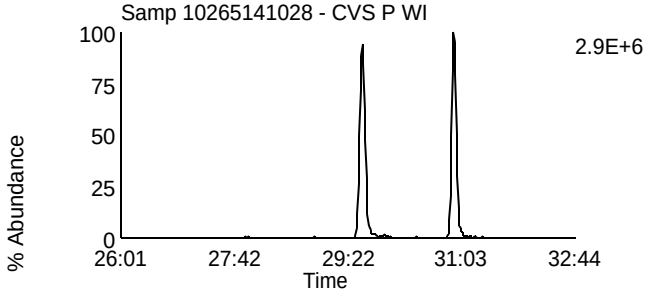
Samp 10265141028 - CVS P WI



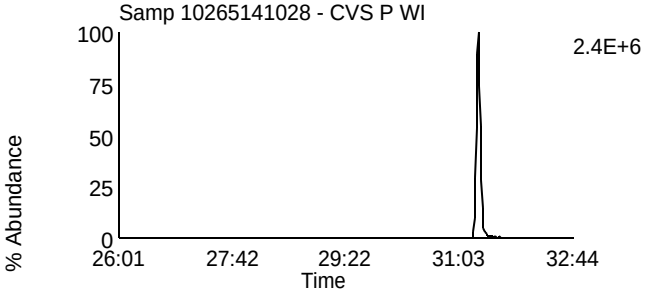
Data File: U140513B_07 G2 C10 - 367.8948
Samp 10265141028 - CVS P WI



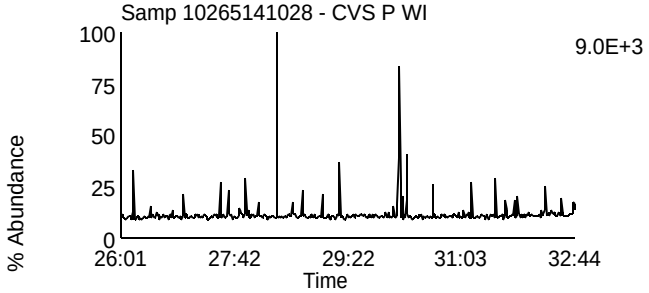
Data File: U140513B_07 G2 C5 - 353.8969
Samp 10265141028 - CVS P WI



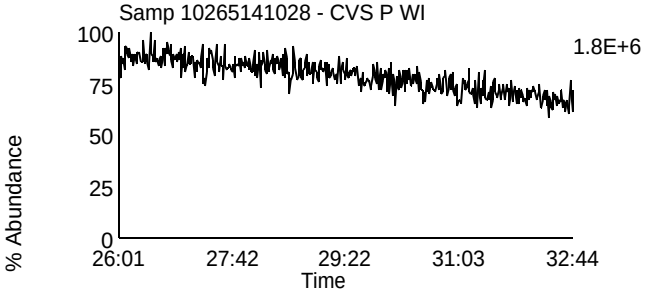
Data File: U140513B_07 G2 C11 - 369.8918
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G2 C12 - 409.7974
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G2 C6 - 354.9792
Samp 10265141028 - CVS P WI

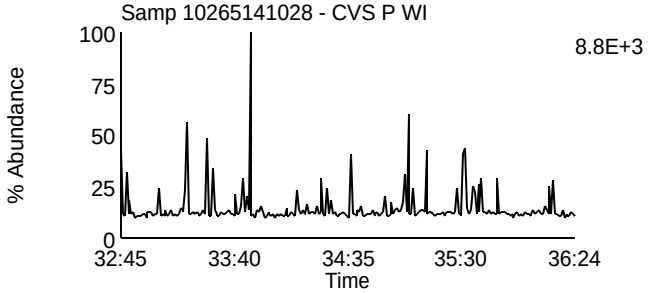


Homologue Group: Hexas

Data File Name: U140513B_07
Date Acquired: 5/14/2014
Sample Description: Samp 10265141028 - CVS P WI

Lab Sample ID: 10265141028
Client Sample ID: MAK127C
Instrument: 10MSHR06 (U)

Data File: U140513B_07 G3 C1 - 373.8207
Samp 10265141028 - CVS P WI



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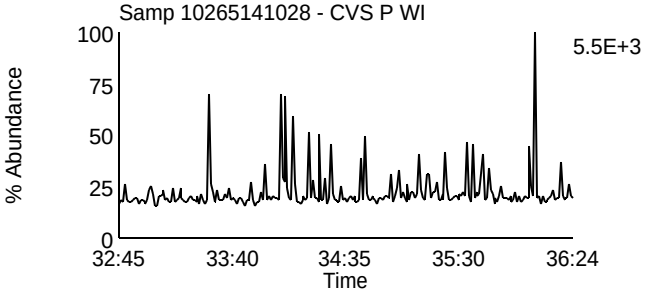
Samp 10265141028 - CVS P WI



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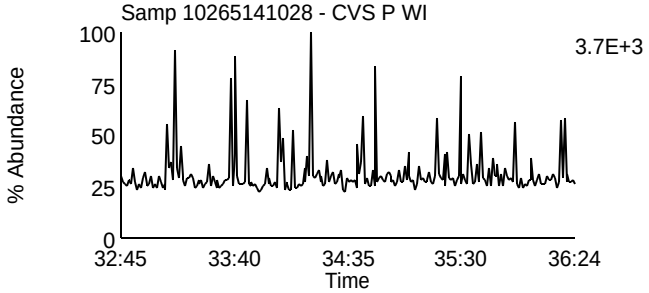
Samp 10265141028 - CVS P WI



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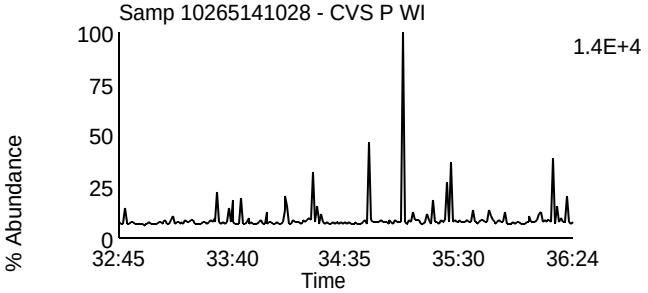
Samp 10265141028 - CVS P WI



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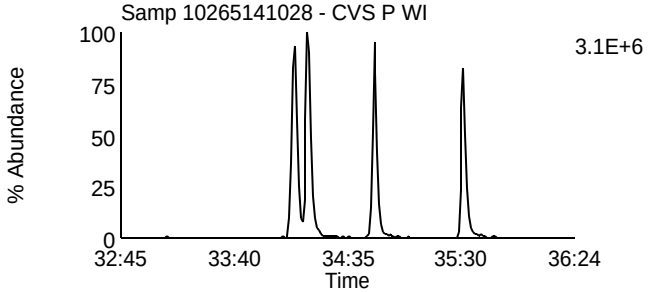
Samp 10265141028 - CVS P WI



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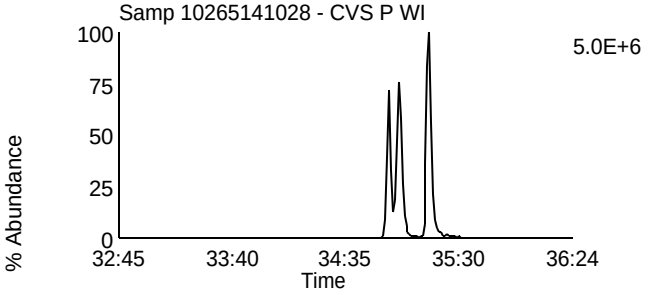
Samp 10265141028 - CVS P WI



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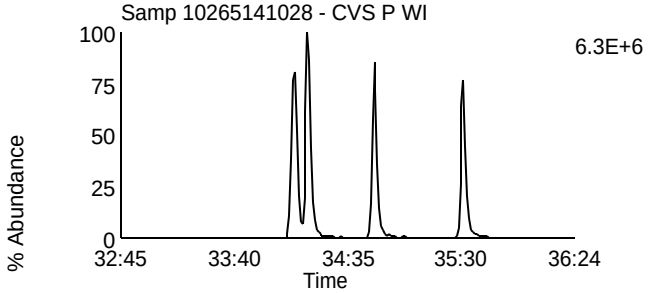
Samp 10265141028 - CVS P WI



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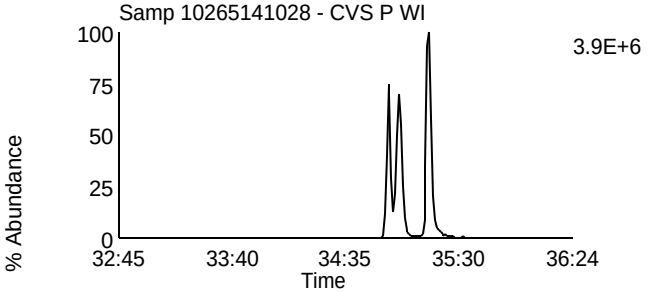
Samp 10265141028 - CVS P WI



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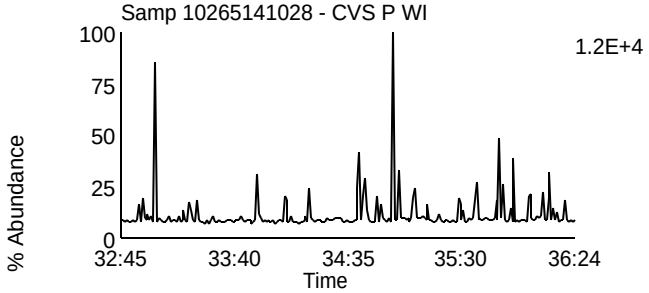
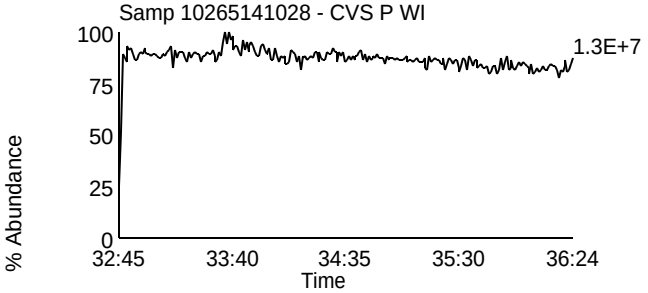
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G3 C3 - 380.976
Samp 10265141028 - CVS P WI

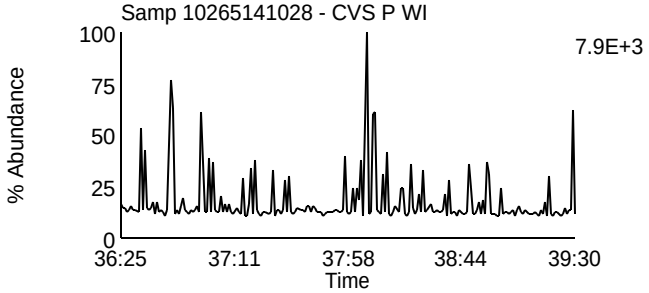


Homologue Group: Heptas

Data File Name: U140513B_07
Date Acquired: 5/14/2014
Sample Description: Samp 10265141028 - CVS P WI

Lab Sample ID: 10265141028
Client Sample ID: MAK127C
Instrument: 10MSHR06 (U)

Data File: U140513B_07 G4 C3 - 407.7818
Samp 10265141028 - CVS P WI



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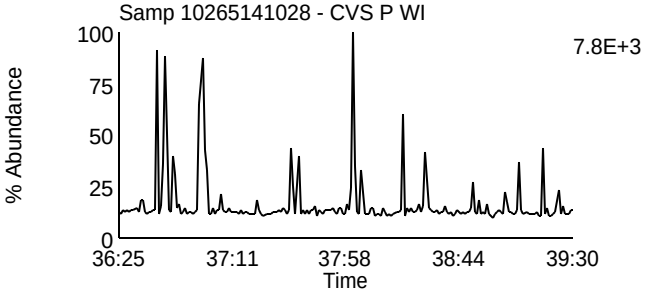
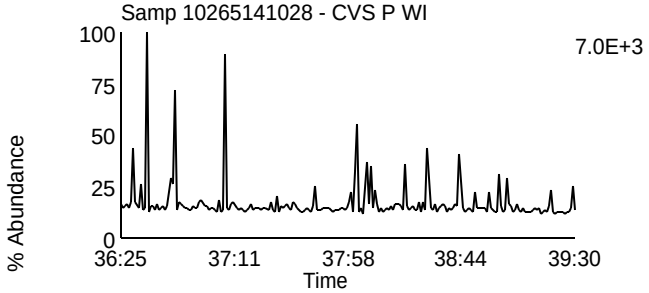
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G4 C4 - 409.7788
Samp 10265141028 - CVS P WI



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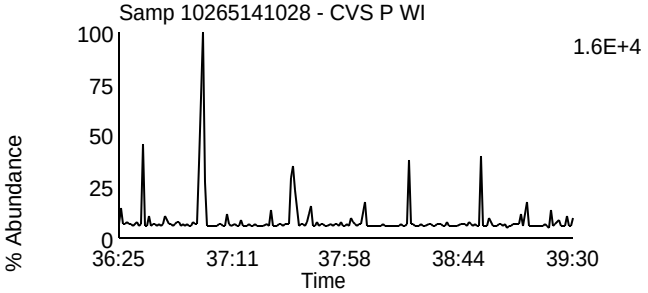
Samp 10265141028 - CVS P WI



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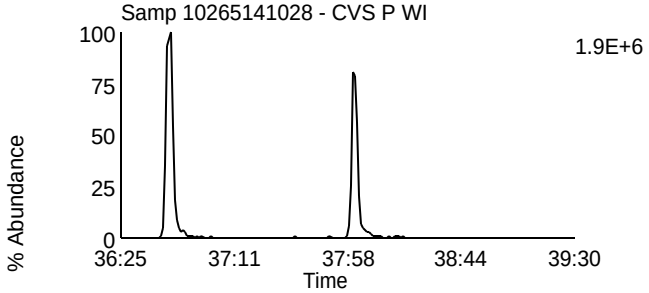
Samp 10265141028 - CVS P WI



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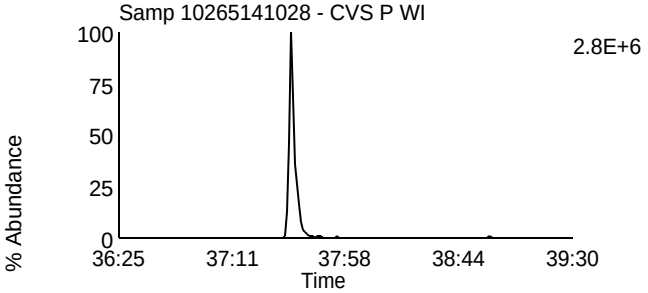
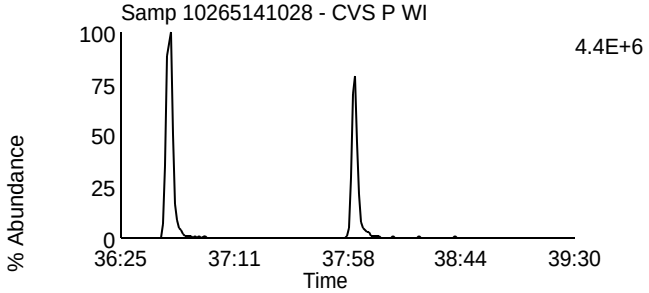
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G4 C7 - 419.822
Samp 10265141028 - CVS P WI



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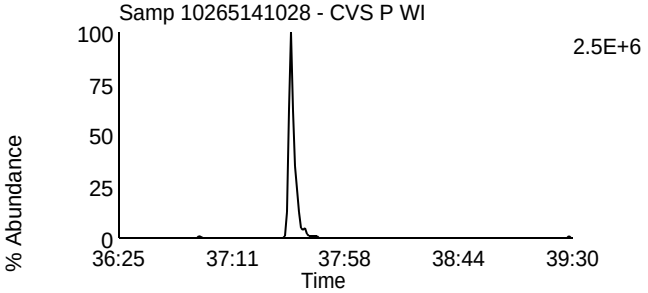
Samp 10265141028 - CVS P WI



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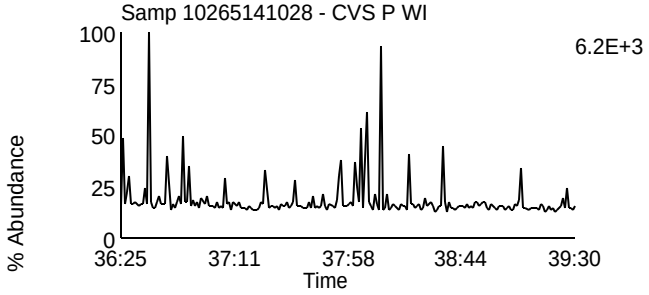
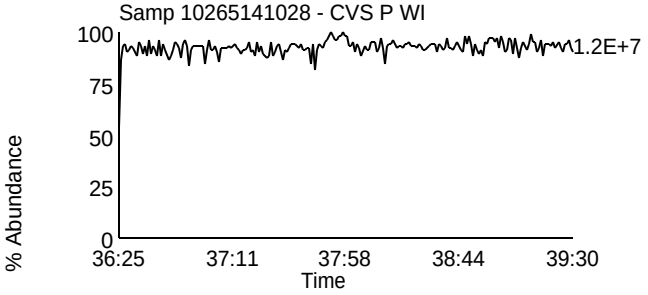
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G4 C1 - 380.976
Samp 10265141028 - CVS P WI

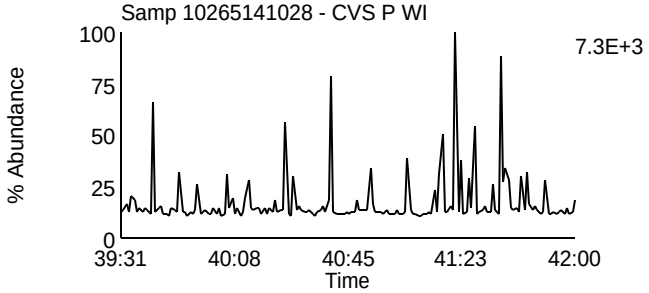


Homologue Group: Octas

Data File Name: U140513B_07
Date Acquired: 5/14/2014
Sample Description: Samp 10265141028 - CVS P WI

Lab Sample ID: 10265141028
Client Sample ID: MAK127C
Instrument: 10MSHR06 (U)

Data File: U140513B_07 G5 C4 - 441.7428
Samp 10265141028 - CVS P WI



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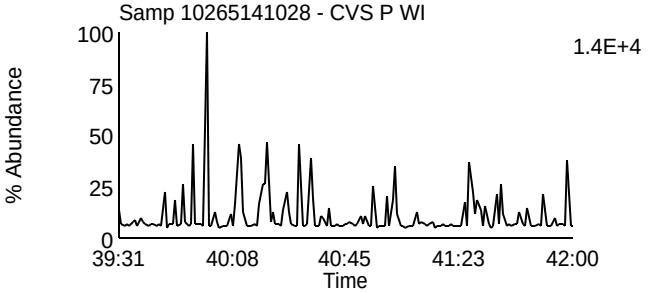
Samp 10265141028 - CVS P WI



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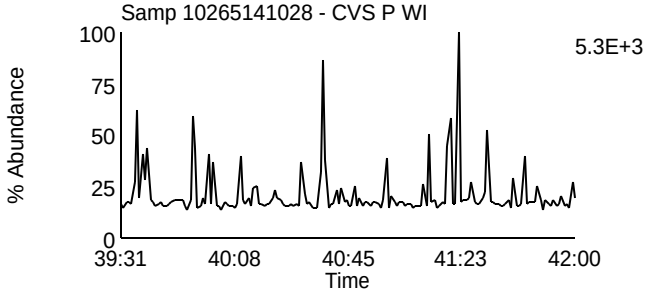
Samp 10265141028 - CVS P WI



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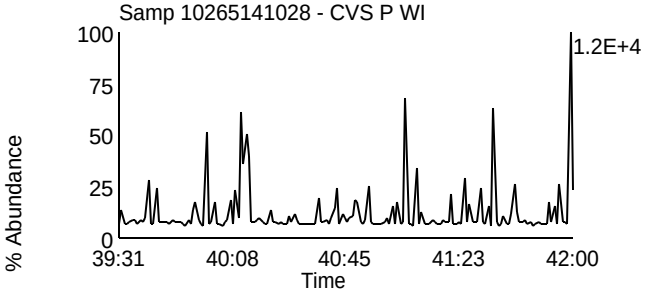
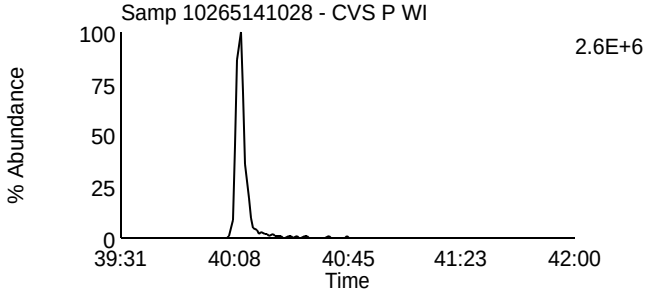
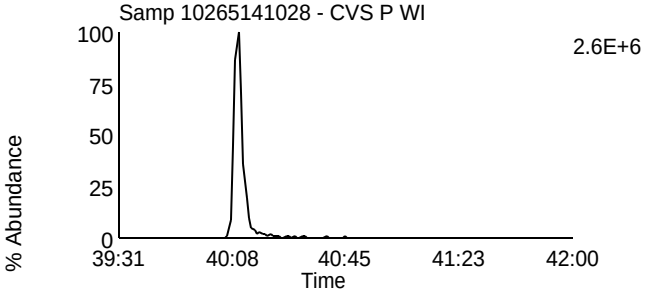
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G5 C11 - 469.7779
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G5 C11 - 469.7779
Samp 10265141028 - CVS P WI



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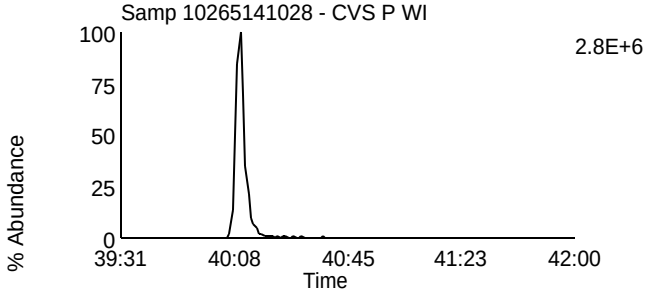
Samp 10265141028 - CVS P WI



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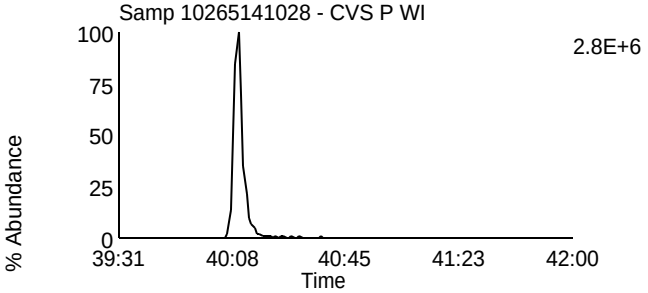
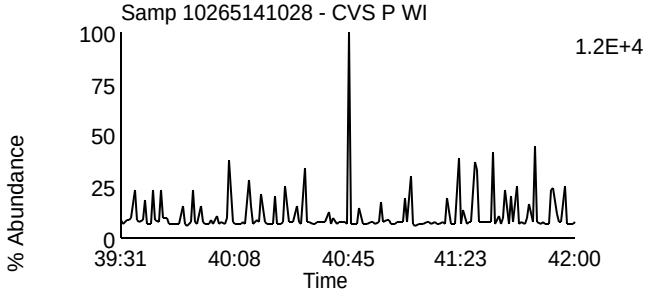
Samp 10265141028 - CVS P WI



Data File: U140513B_07 G5 C13 - 513.6775
Samp 10265141028 - CVS P WI



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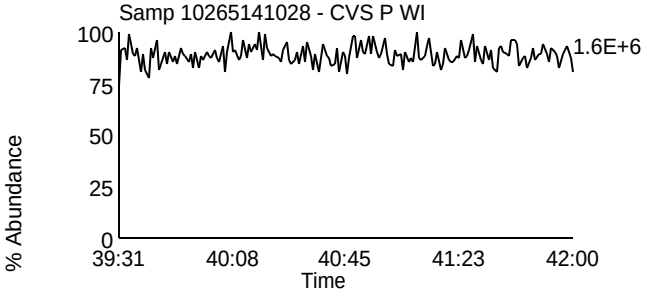
Samp 10265141028 - CVS P WI

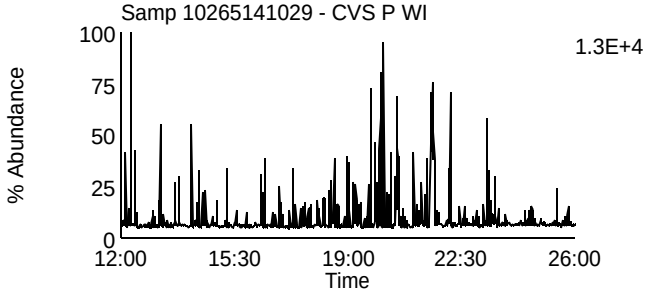


Homologue Group: Tetras

Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G1 C1 - 303.9016
Samp 10265141029 - CVS P WI



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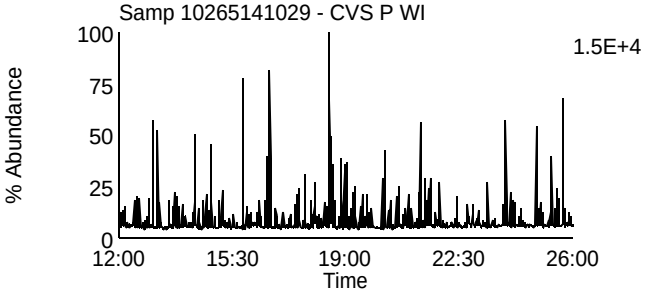
Samp 10265141029 - CVS P WI



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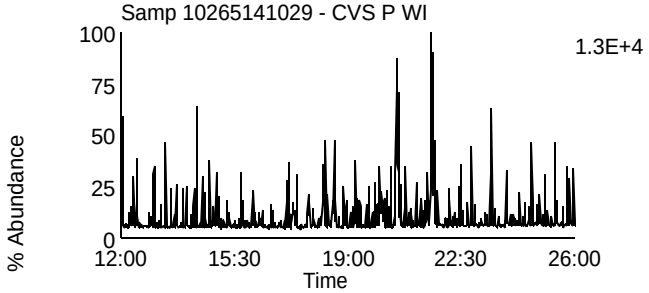
Samp 10265141029 - CVS P WI



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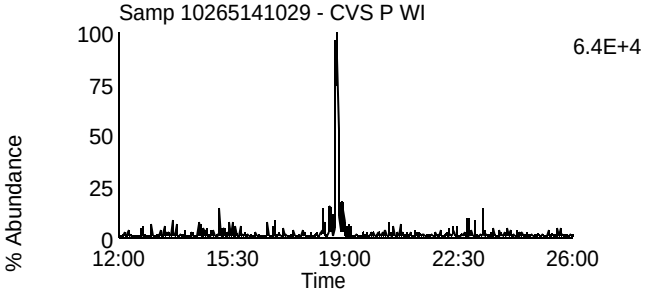
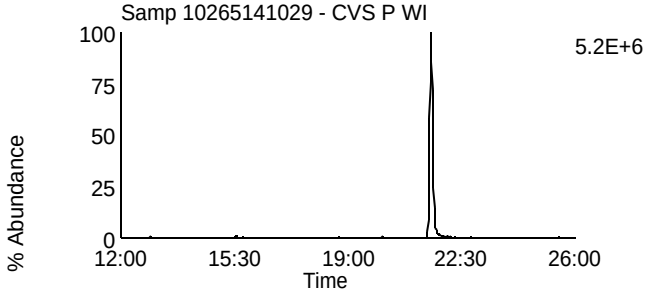
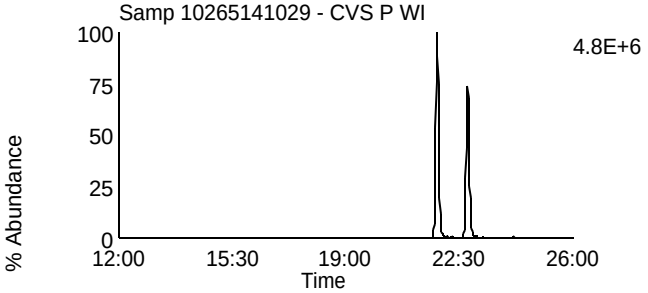


Data File: U140513B_08 G1 C3 - 315.9418
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G1 C10 - 331.9367
Samp 10265141029 - CVS P WI



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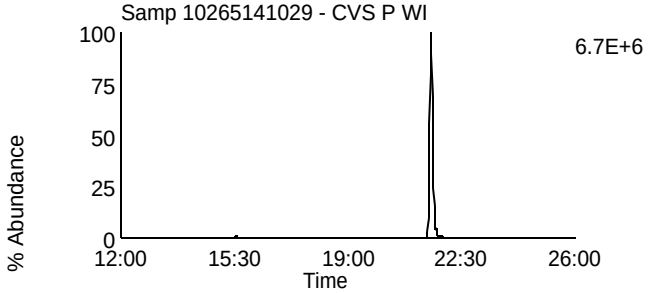
Samp 10265141029 - CVS P WI



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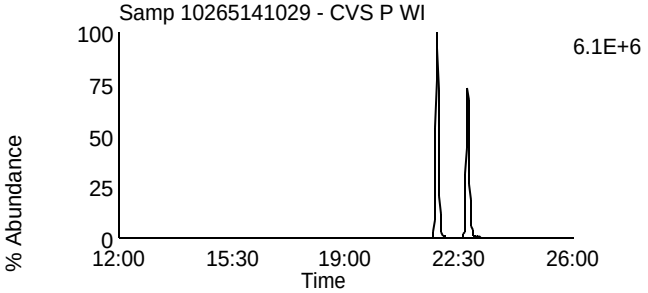
Samp 10265141029 - CVS P WI



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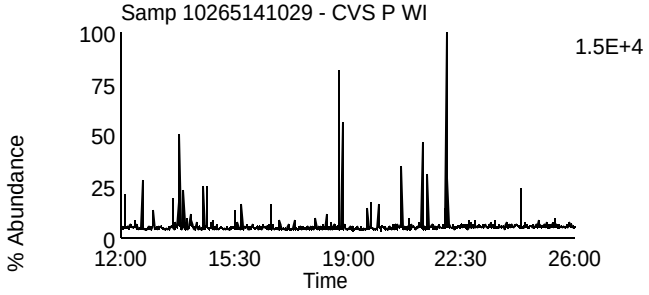
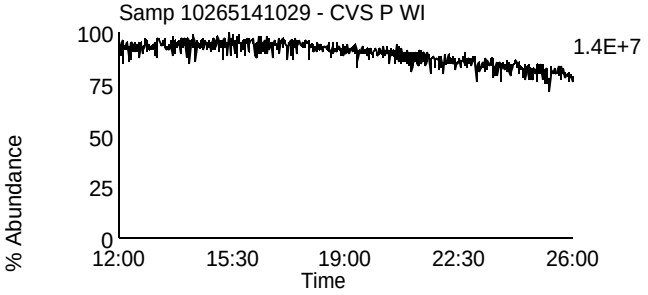
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G1 C5 - 318.9792
Samp 10265141029 - CVS P WI

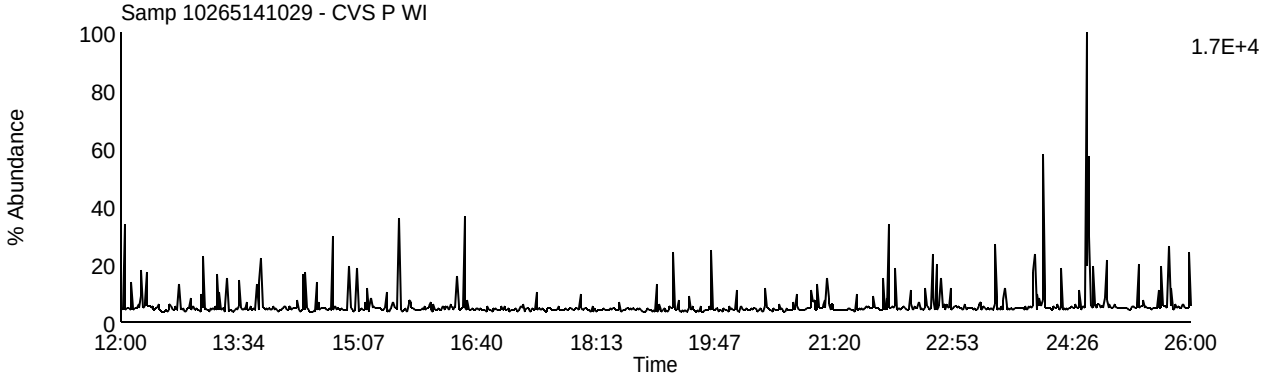


Homologue Group: Penta & Cleanup

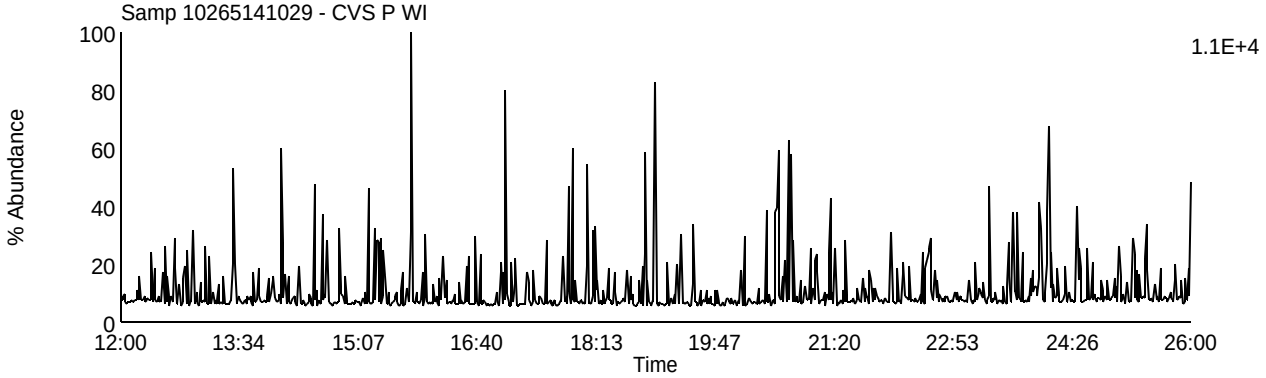
Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G1 C12 - 339.8597
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G1 C13 - 341.8567
Samp 10265141029 - CVS P WI



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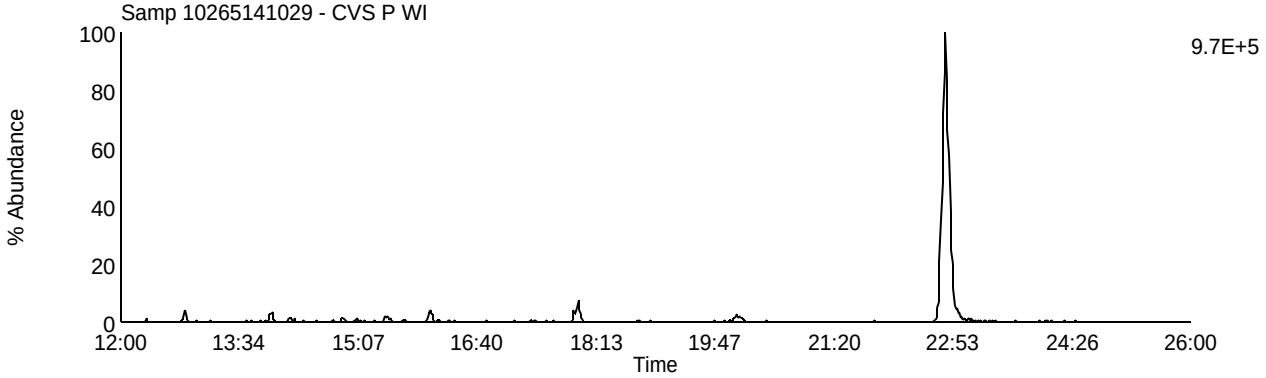
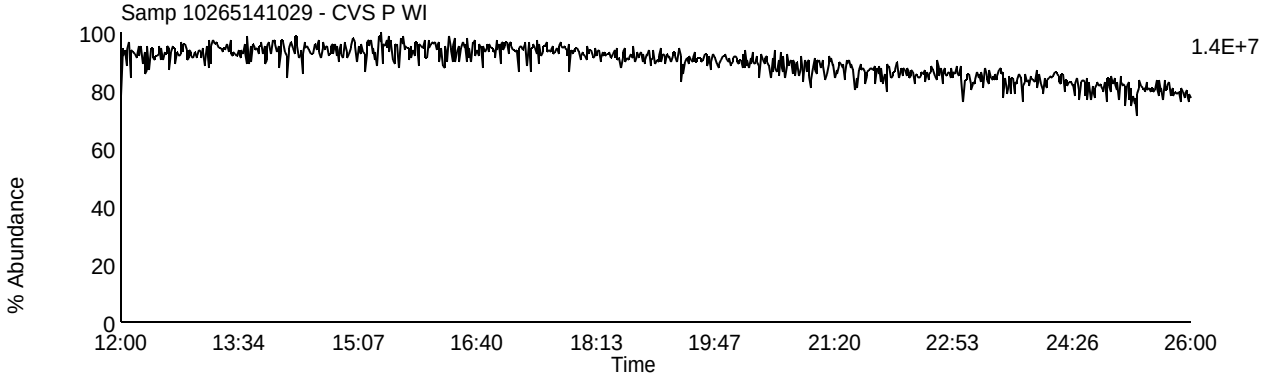
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G1 C5 - 318.9792
Samp 10265141029 - CVS P WI

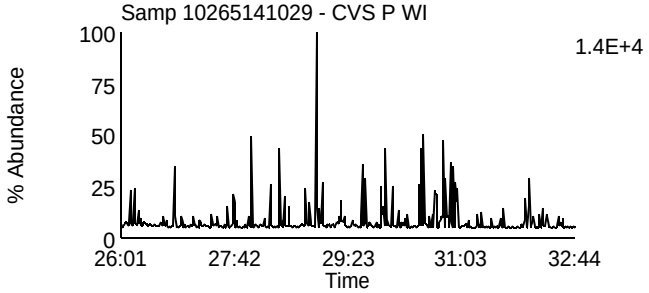


Homologue Group: Pentas

Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G2 C1 - 339.8597
Samp 10265141029 - CVS P WI



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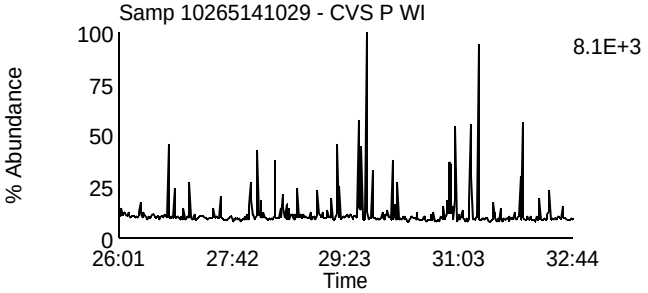
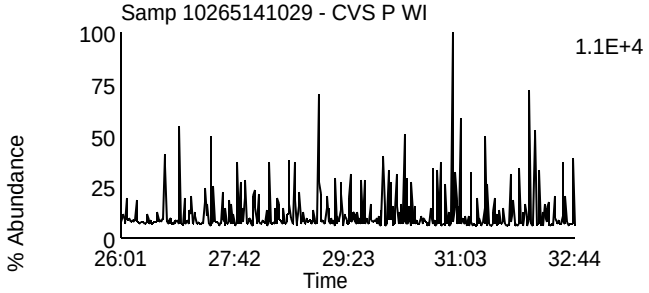
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G2 C2 - 341.8567
Samp 10265141029 - CVS P WI



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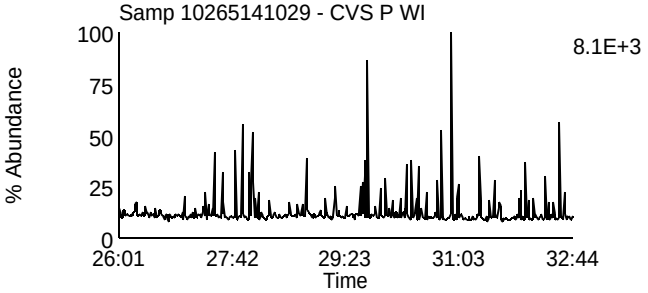
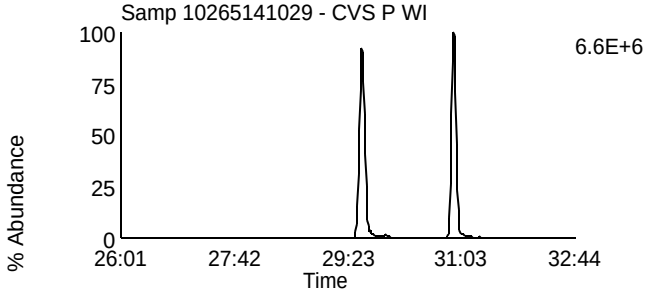
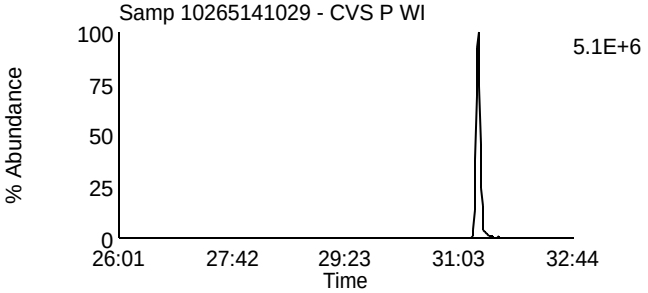
Samp 10265141029 - CVS P WI



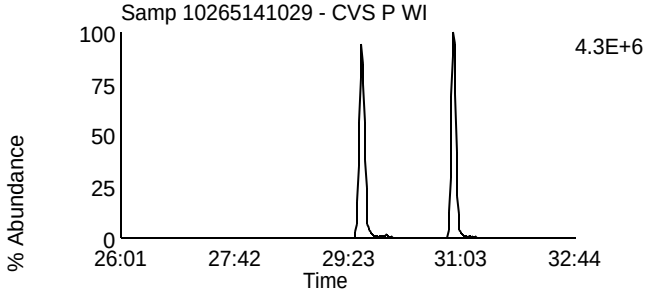
Data File: U140513B_08 G2 C3 - 351.8999
Samp 10265141029 - CVS P WI



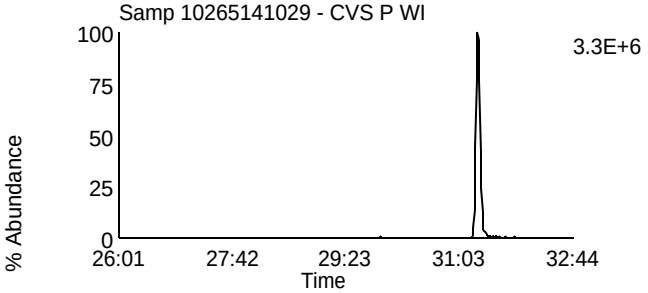
Data File: U140513B_08 G2 C10 - 367.8948
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G2 C5 - 353.8969
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G2 C11 - 369.8918
Samp 10265141029 - CVS P WI



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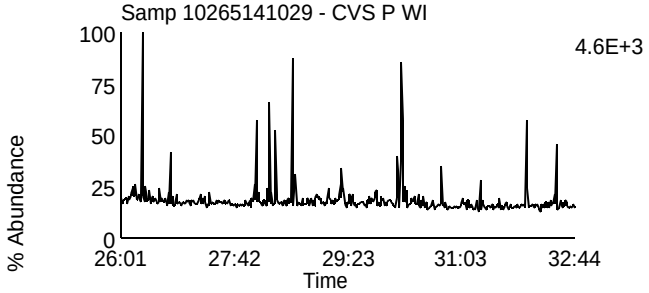
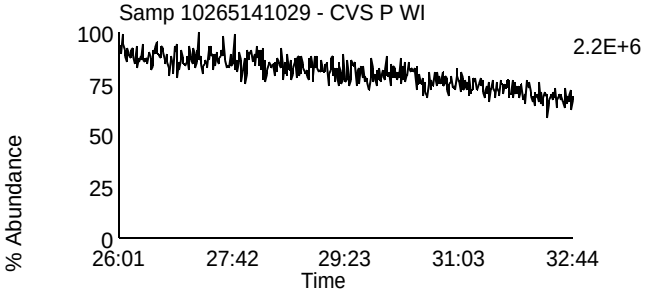
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G2 C6 - 354.9792
Samp 10265141029 - CVS P WI

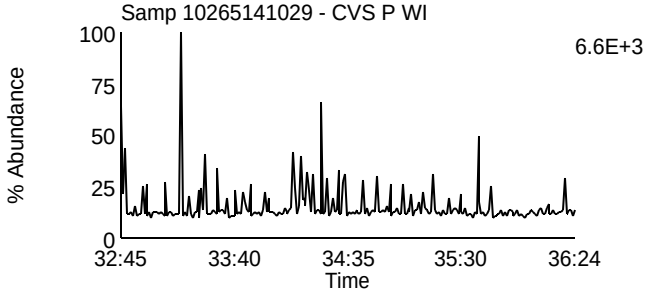


Homologue Group: Hexas

Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G3 C1 - 373.8207
Samp 10265141029 - CVS P WI



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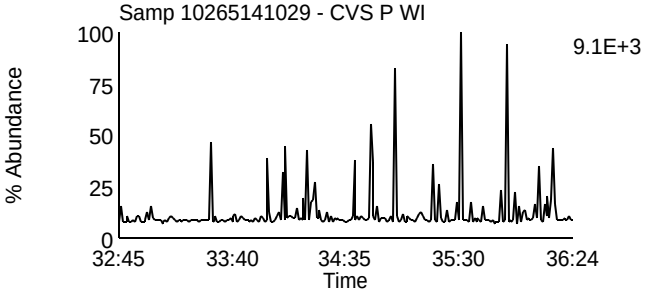
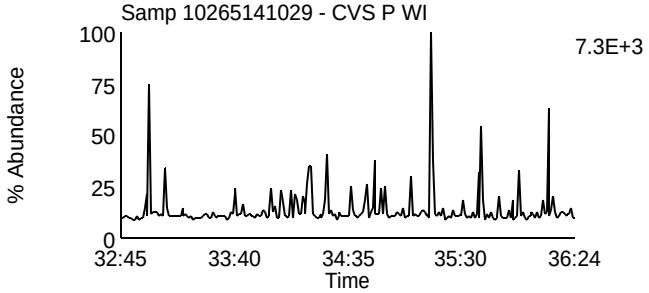
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G3 C2 - 375.8178
Samp 10265141029 - CVS P WI



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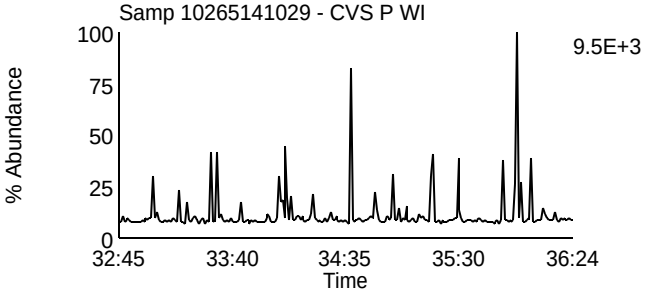
Samp 10265141029 - CVS P WI



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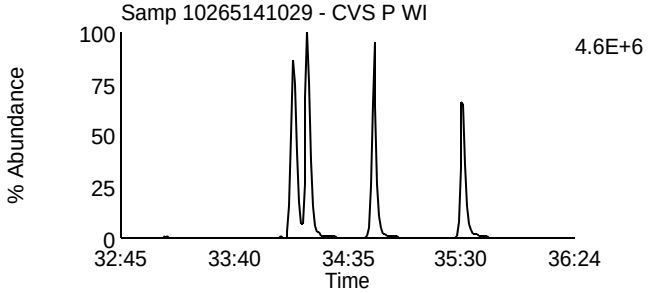

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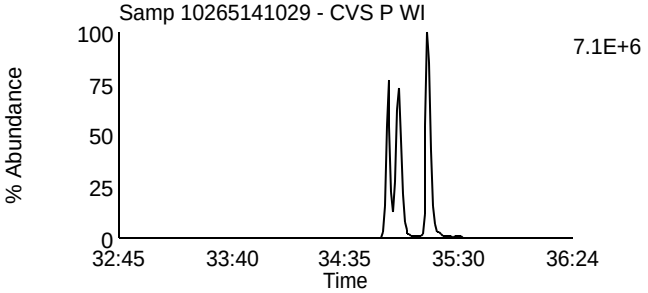
Samp 10265141029 - CVS P WI



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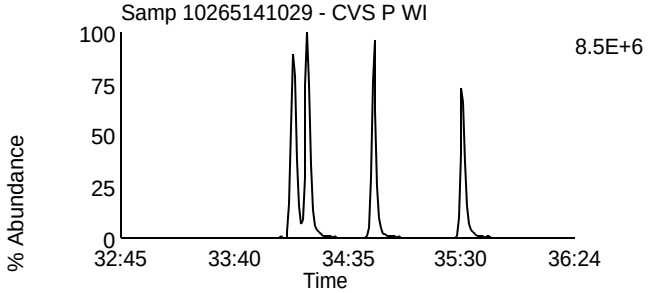
Samp 10265141029 - CVS P WI



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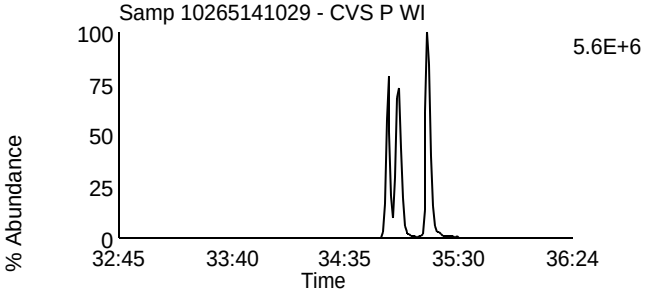

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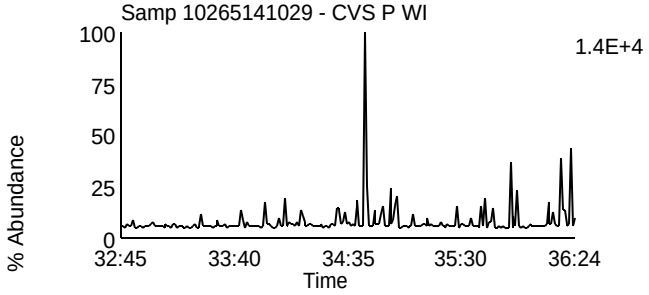
Samp 10265141029 - CVS P WI



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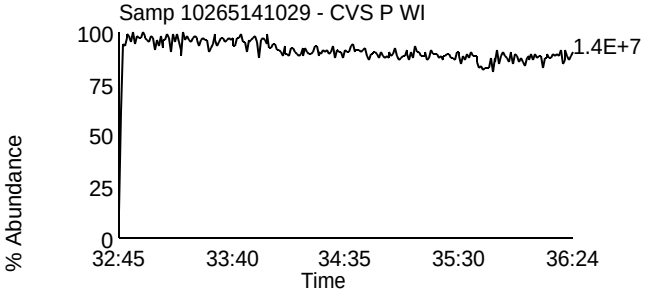
Samp 10265141029 - CVS P WI

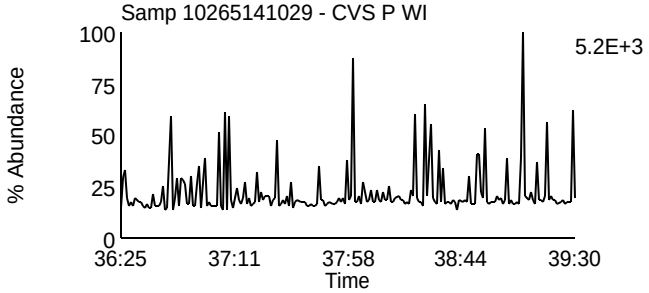


Homologue Group: Heptas

Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G4 C3 - 407.7818
Samp 10265141029 - CVS P WI



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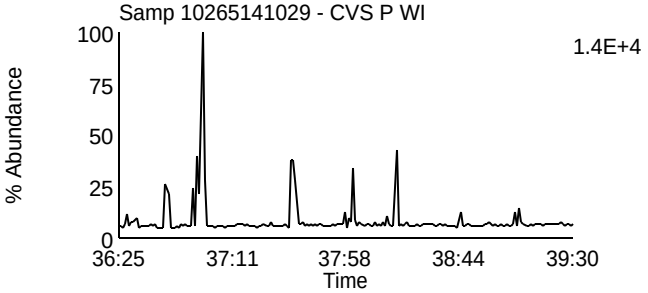
Samp 10265141029 - CVS P WI



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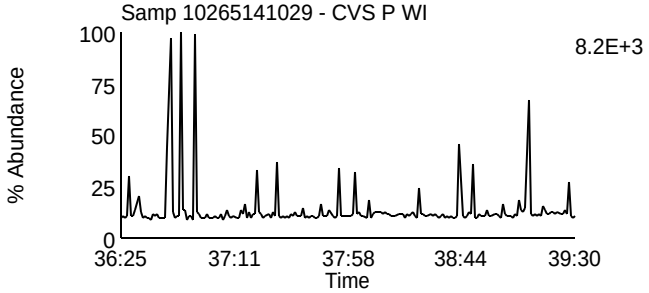

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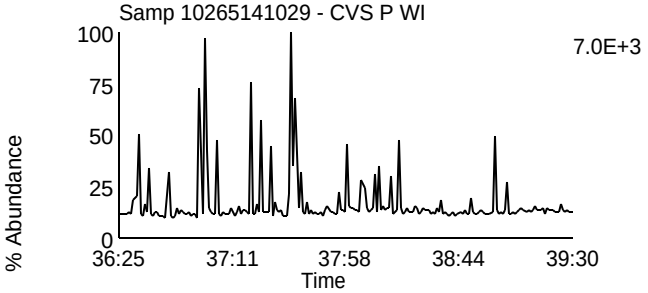
Samp 10265141029 - CVS P WI



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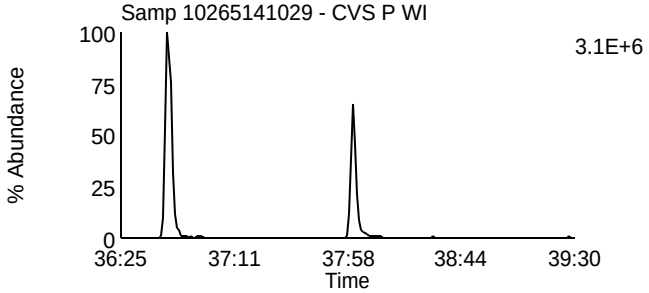

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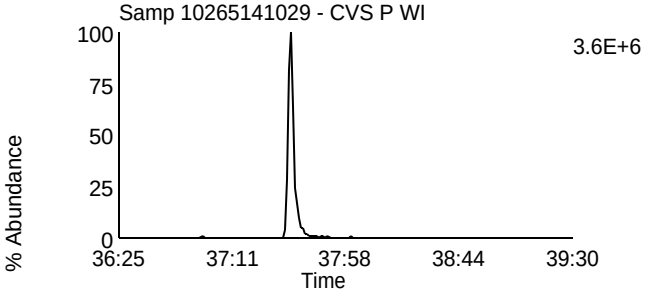
Samp 10265141029 - CVS P WI



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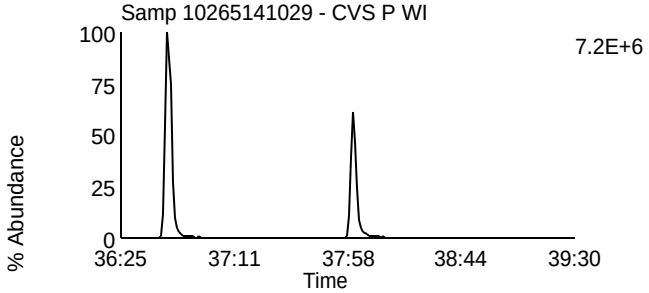

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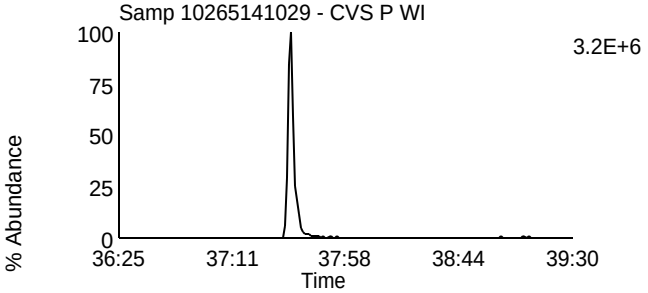

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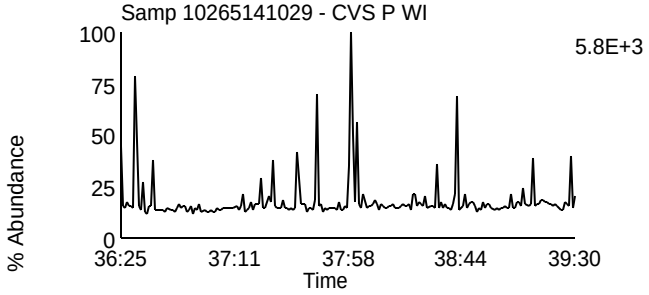

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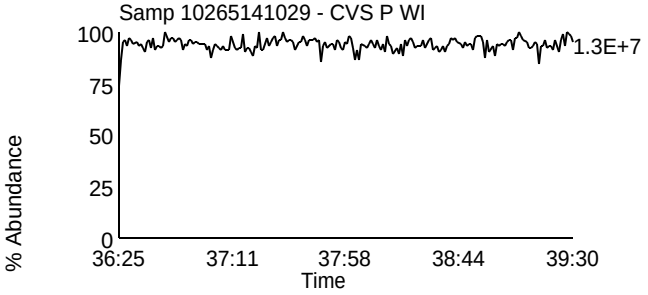

Homologue Group: Octas

Data File Name: U140513B_08
Date Acquired: 5/14/2014
Sample Description: Samp 10265141029 - CVS P WI

Lab Sample ID: 10265141029
Client Sample ID: MAK128C
Instrument: 10MSHR06 (U)

Data File: U140513B_08 G5 C4 - 441.7428
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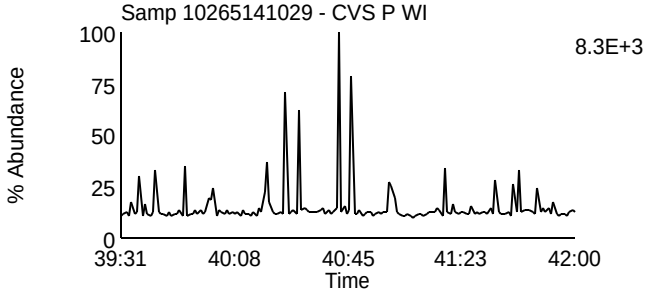

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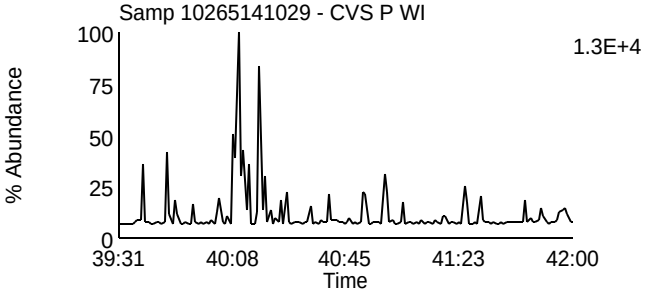

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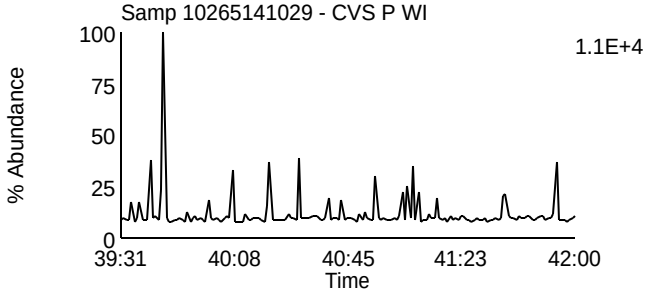

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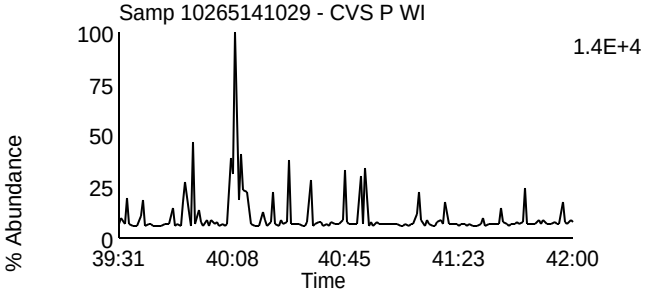

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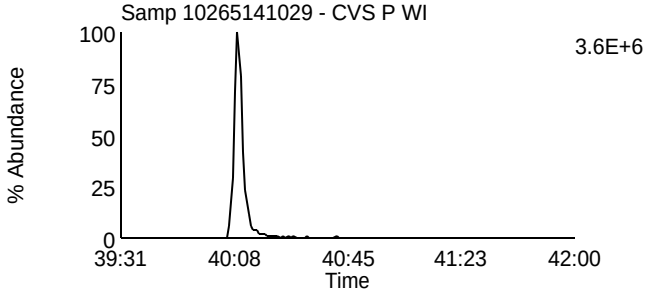
Samp 10265141029 - CVS P WI



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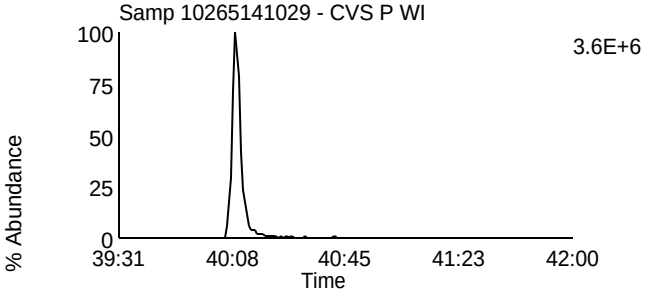
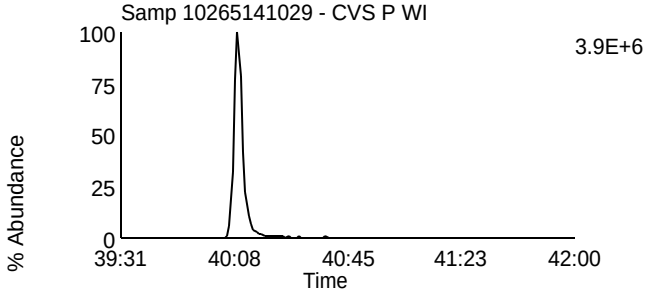
Samp 10265141029 - CVS P WI



Data File: U140513B_08 G5 C12 - 471.7749
Samp 10265141029 - CVS P WI



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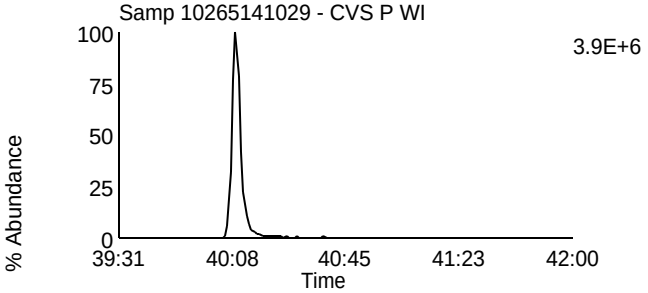
Samp 10265141029 - CVS P WI



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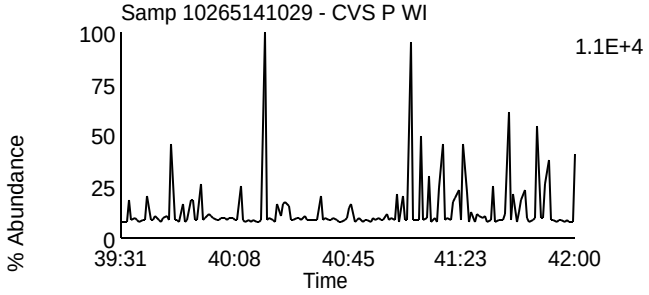

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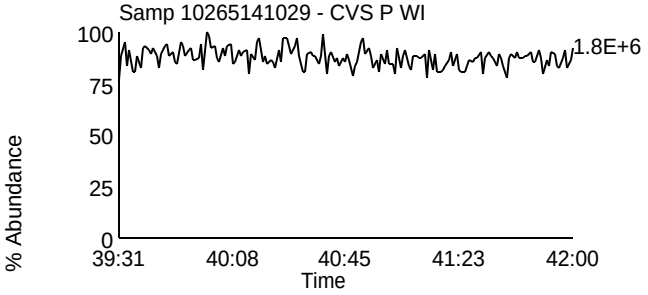

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK109O	Injected By	SMT
Lab ID	10265141001	Instrument ID	10MSHR06 (U)
Filename	U140512A_09	GC Column ID	USD397111H
Analyzed	05/12/2014 17:10	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	5.04e7	6.46e7	7.29e6	9.45e6	1.340e4	1.339e4	0.78	
2,3,7,8-TCDF	21:40	5.40e4	9.41e4	1.05e4	1.92e4	2.476e3	3.639e3	0.57	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:56	4.37e7	5.35e7	6.68e6	8.45e6	8.678e3	2.797e3	0.82	
2,3,7,8-TCDD-13C	22:52	3.62e7	4.62e7	5.00e6	6.53e6	8.941e3	3.573e3	0.78	
2,3,7,8-TCDD-37Cl4	22:54	9.26e6		1.43e6		1.957e3	-----		
2,3,7,8-TCDD	22:54	1.26e4	2.59e4	2.42e3	5.35e3	2.764e3	1.968e3	0.49	I
Other TCDD 1	18:56	3.27e4	4.76e4					0.69	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:40	5.07e7	3.25e7	8.84e6	5.62e6	2.283e4	6.715e3	1.56	
2,3,4,7,8-PeCDF-13C	31:01	4.69e7	2.98e7	1.10e7	6.78e6	9.858e3	5.131e3	1.57	
1,2,3,7,8-PeCDF	29:41	9.79e3	8.77e3	2.15e3	1.66e3	1.924e3	2.396e3	1.12	I
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	1.684e3	2.273e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	3.49e7	2.24e7	8.19e6	4.92e6	9.754e3	5.577e3	1.56	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	1.943e3	2.260e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.56e7	2.96e7	5.46e6	1.04e7	2.346e3	1.650e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:19	1.86e7	3.60e7	5.86e6	1.10e7	2.346e3	1.788e2	0.52	
2,3,4,6,7,8-HxCDF-13C	34:50	1.54e7	2.93e7	4.84e6	9.34e6	5.135e2	5.225e2	0.53	
1,2,3,7,8,9-HxCDF-13C	35:33	1.39e7	2.73e7	4.31e6	8.85e6	7.057e3	4.124e3	0.51	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	2.507e3	1.559e3		
1,2,3,6,7,8-HxCDF	34:20	ND	ND	ND	ND	3.236e3	1.833e3		
2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	2.947e3	2.129e3		
1,2,3,7,8,9-HxCDF	35:34	ND	ND	ND	ND	3.378e3	1.345e3		

REPORT OF LABORATORY ANALYSIS

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Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK109O	Injected By	SMT
Lab ID	10265141001	Instrument ID	10MSHR06 (U)
Filename	U140512A_09	GC Column ID	USD397111H
Analyzed	05/12/2014 17:10	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	2.09e7	1.63e7	7.93e6	6.43e6	1.939e4	1.790e3	1.28	
1,2,3,6,7,8-HxCDD-13C	35:03	2.23e7	1.77e7	7.92e6	6.23e6	1.064e4	7.150e3	1.26	
1,2,3,7,8,9-HxCDD-13C	35:17	2.94e7	2.27e7	9.83e6	7.99e6	3.909e3	3.811e3	1.29	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	2.305e3	1.979e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	2.052e3	1.652e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	2.131e3	1.825e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	1.17e7	2.52e7	4.32e6	9.48e6	6.304e3	1.348e4	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:03	8.54e6	1.82e7	2.98e6	6.34e6	4.288e3	1.150e4	0.47	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	4.070e3	2.461e3		
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	3.916e3	2.461e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	1.56e7	1.46e7	5.25e6	4.94e6	1.447e4	5.173e3	1.07	
1,2,3,4,6,7,8-HpCDD	37:39	1.87e4	2.50e4	9.85e3	9.61e3	1.571e3	1.391e3	0.75	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:23	ND	ND	ND	ND	1.630e3	2.532e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:13	1.72e7	1.86e7	4.77e6	5.20e6	1.762e3	4.698e2	0.93	
OCDD	40:12	3.50e4	3.39e4	1.63e4	1.64e4	2.515e3	5.193e3	1.03	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK110O	Injected By	SMT
Lab ID	10265141002	Instrument ID	10MSHR06 (U)
Filename	U140512A_10	GC Column ID	USD397111H
Analyzed	05/12/2014 17:55	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	4.82e7	5.94e7	7.41e6	9.21e6	1.877e4	1.063e4	0.81	
2,3,7,8-TCDF	21:42	5.81e4	7.23e4	1.40e4	1.52e4	2.077e3	3.279e3	0.80	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:56	3.94e7	4.97e7	6.23e6	7.85e6	1.518e4	3.963e3	0.79	
2,3,7,8-TCDD-13C	22:53	3.31e7	4.14e7	4.78e6	5.69e6	6.138e3	2.245e3	0.80	
2,3,7,8-TCDD-37Cl4	22:54	8.55e6		1.28e6		4.477e3	-----		
2,3,7,8-TCDD	22:56	ND	ND	ND	ND	2.516e3	1.796e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	4.32e7	2.80e7	7.93e6	5.12e6	2.476e4	1.246e4	1.55	
2,3,4,7,8-PeCDF-13C	31:02	3.79e7	2.44e7	8.43e6	5.36e6	2.244e4	6.252e3	1.55	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	9.767e2	2.812e3		
2,3,4,7,8-PeCDF	31:03	ND	ND	ND	ND	1.367e3	2.070e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	2.84e7	1.79e7	6.51e6	4.26e6	6.226e3	5.898e3	1.59	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	2.000e3	2.489e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.30e7	2.48e7	4.60e6	8.79e6	2.740e3	3.236e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	1.51e7	2.95e7	4.92e6	9.76e6	1.709e3	4.355e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:50	1.37e7	2.56e7	4.94e6	9.06e6	5.511e2	7.537e2	0.53	
1,2,3,7,8,9-HxCDF-13C	35:34	1.16e7	2.23e7	3.79e6	7.21e6	4.916e3	6.798e3	0.52	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	2.210e3	1.655e3		
1,2,3,6,7,8-HxCDF	34:19	ND	ND	ND	ND	2.230e3	1.289e3		
2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	2.059e3	1.633e3		
1,2,3,7,8,9-HxCDF	35:35	ND	ND	ND	ND	2.111e3	1.597e3		

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Client Name	PASI Wisconsin		
Client ID	MAK110O	Injected By	SMT
Lab ID	10265141002	Instrument ID	10MSHR06 (U)
Filename	U140512A_10	GC Column ID	USD397111H
Analyzed	05/12/2014 17:55	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	1.62e7	1.31e7	6.17e6	5.12e6	6.199e3	3.268e3	1.23	
1,2,3,6,7,8-HxCDD-13C	35:03	1.88e7	1.49e7	6.96e6	5.55e6	5.777e3	1.862e3	1.26	
1,2,3,7,8,9-HxCDD-13C	35:17	2.25e7	1.82e7	7.60e6	6.21e6	1.154e3	1.160e3	1.24	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	1.495e3	1.892e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.200e3	1.965e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	1.084e3	1.757e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	9.47e6	2.12e7	3.41e6	8.16e6	1.049e4	9.500e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	7.55e6	1.61e7	2.64e6	5.58e6	5.076e3	2.127e3	0.47	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	2.266e3	1.433e3		
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	1.797e3	1.290e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	1.36e7	1.29e7	4.92e6	4.48e6	2.098e3	2.394e3	1.05	
1,2,3,4,6,7,8-HpCDD	37:38	5.31e3	1.25e4	1.95e3	9.63e3	1.443e3	1.431e3	0.42	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:23	1.72e4	2.58e4	8.70e3	1.08e4	1.893e3	3.344e3	0.67	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:13	1.49e7	1.58e7	4.47e6	4.50e6	1.043e4	5.010e3	0.94	
OCDD	40:13	2.65e4	3.34e4	7.68e3	5.55e3	2.531e3	4.467e3	0.79	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK111O	Injected By	SMT
Lab ID	10265141003	Instrument ID	10MSHR06 (U)
Filename	U140512A_11	GC Column ID	USD397111H
Analyzed	05/12/2014 18:40	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	4.22e7	5.42e7	6.18e6	7.64e6	2.426e4	7.485e3	0.78	
2,3,7,8-TCDF	21:44	4.68e4	5.59e4	1.14e4	1.18e4	1.809e3	2.293e3	0.84	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:57	3.56e7	4.44e7	5.54e6	6.58e6	1.202e4	3.011e3	0.80	
2,3,7,8-TCDD-13C	22:53	2.89e7	3.63e7	4.12e6	5.02e6	7.654e3	9.040e3	0.80	
2,3,7,8-TCDD-37Cl4	22:56	7.72e6		9.99e5		1.942e3	-----		
2,3,7,8-TCDD	22:56	ND	ND	ND	ND	2.177e3	2.153e3		
Other TCDD 1	18:39	7.40e4	8.63e4					0.86	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	3.54e7	2.34e7	6.39e6	4.22e6	1.786e4	4.119e3	1.51	
2,3,4,7,8-PeCDF-13C	31:02	3.15e7	2.07e7	7.05e6	4.36e6	8.093e3	1.809e3	1.52	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.120e3	1.701e3		
2,3,4,7,8-PeCDF	31:03	ND	ND	ND	ND	9.999e2	1.537e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:26	2.34e7	1.46e7	5.14e6	3.20e6	4.922e3	1.868e3	1.61	
1,2,3,7,8-PeCDD	31:27	ND	ND	ND	ND	1.420e3	3.669e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	1.21e7	2.24e7	3.91e6	7.09e6	9.981e2	6.294e2	0.54	
1,2,3,6,7,8-HxCDF-13C	34:19	1.37e7	2.67e7	4.43e6	8.95e6	6.000e2	6.821e2	0.51	
2,3,4,6,7,8-HxCDF-13C	34:51	1.25e7	2.34e7	4.28e6	8.17e6	4.375e2	1.588e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:34	1.05e7	2.02e7	3.49e6	6.92e6	6.287e3	4.930e3	0.52	
1,2,3,4,7,8-HxCDF	34:14	ND	ND	ND	ND	1.799e3	2.705e3		
1,2,3,6,7,8-HxCDF	34:20	ND	ND	ND	ND	1.799e3	2.017e3		
2,3,4,6,7,8-HxCDF	34:52	ND	ND	ND	ND	1.690e3	2.121e3		
1,2,3,7,8,9-HxCDF	35:35	ND	ND	ND	ND	1.248e3	2.155e3		

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Client Name	PASI Wisconsin		
Client ID	MAK111O	Injected By	SMT
Lab ID	10265141003	Instrument ID	10MSHR06 (U)
Filename	U140512A_11	GC Column ID	USD397111H
Analyzed	05/12/2014 18:40	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:59	1.53e7	1.17e7	6.27e6	4.45e6	6.712e3	2.109e3	1.30	
1,2,3,6,7,8-HxCDD-13C	35:04	1.64e7	1.28e7	6.20e6	4.65e6	1.346e3	5.650e1	1.28	
1,2,3,7,8,9-HxCDD-13C	35:18	2.22e7	1.71e7	7.88e6	6.24e6	2.318e3	3.253e3	1.30	
1,2,3,4,7,8-HxCDD	34:60	ND	ND	ND	ND	1.147e3	1.037e3		
1,2,3,6,7,8-HxCDD	35:04	ND	ND	ND	ND	1.427e3	1.710e3		
1,2,3,7,8,9-HxCDD	35:18	1.25e4	2.09e4	6.79e3	1.00e4	1.569e3	2.349e3	0.60	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	8.90e6	1.97e7	3.27e6	7.18e6	4.953e3	4.893e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:04	6.08e6	1.42e7	1.92e6	4.45e6	1.225e4	8.564e3	0.43	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	1.418e3	1.358e3		
1,2,3,4,7,8,9-HpCDF	38:05	ND	ND	ND	ND	1.338e3	1.505e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	1.14e7	1.04e7	4.23e6	3.73e6	7.893e2	2.519e2	1.10	
1,2,3,4,6,7,8-HpCDD	37:39	1.29e4	4.14e3	1.08e4	1.47e3	2.210e3	1.321e3	3.13	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:24	ND	ND	ND	ND	1.692e3	2.563e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:14	1.26e7	1.39e7	3.26e6	3.72e6	7.789e2	1.894e3	0.91	
OCDD	40:15	ND	ND	ND	ND	2.572e3	8.295e3		

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK112O	Injected By	SMT
Lab ID	10265141004	Instrument ID	10MSHR06 (U)
Filename	U140512A_12	GC Column ID	USD397111H
Analyzed	05/12/2014 19:24	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	3.74e7	4.86e7	5.36e6	6.99e6	1.297e4	8.769e3	0.77	
2,3,7,8-TCDF	21:42	4.94e4	3.53e4	1.82e4	2.23e4	1.816e3	3.459e3	1.40	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:57	3.37e7	4.09e7	5.07e6	6.35e6	1.178e4	2.558e3	0.82	
2,3,7,8-TCDD-13C	22:53	2.57e7	3.25e7	3.69e6	4.38e6	1.165e4	2.802e3	0.79	
2,3,7,8-TCDD-37Cl4	22:54	7.53e6		1.03e6		1.053e3	-----		
2,3,7,8-TCDD	22:56	ND	ND	ND	ND	1.439e3	2.065e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	3.12e7	2.04e7	5.68e6	3.56e6	2.618e4	1.549e3	1.53	
2,3,4,7,8-PeCDF-13C	31:02	2.82e7	1.80e7	6.49e6	4.39e6	5.433e4	9.704e3	1.56	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.460e3	1.310e3		
2,3,4,7,8-PeCDF	31:03	ND	ND	ND	ND	1.336e3	1.373e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	2.02e7	1.29e7	4.80e6	3.03e6	7.554e3	3.677e3	1.57	
1,2,3,7,8-PeCDD	31:27	ND	ND	ND	ND	1.929e3	2.667e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	1.05e7	1.93e7	3.52e6	6.42e6	2.289e3	1.927e2	0.55	
1,2,3,6,7,8-HxCDF-13C	34:19	1.27e7	2.32e7	3.92e6	7.50e6	3.606e2	1.812e2	0.55	
2,3,4,6,7,8-HxCDF-13C	34:51	1.13e7	2.07e7	3.98e6	7.47e6	9.989e2	8.757e2	0.54	
1,2,3,7,8,9-HxCDF-13C	35:34	9.26e6	1.77e7	2.84e6	5.71e6	7.778e3	2.489e3	0.52	
1,2,3,4,7,8-HxCDF	34:14	ND	ND	ND	ND	2.429e3	1.466e3		
1,2,3,6,7,8-HxCDF	34:20	ND	ND	ND	ND	1.931e3	1.612e3		
2,3,4,6,7,8-HxCDF	34:52	ND	ND	ND	ND	2.318e3	1.950e3		
1,2,3,7,8,9-HxCDF	35:35	ND	ND	ND	ND	2.266e3	1.722e3		

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Client Name	PASI Wisconsin		
Client ID	MAK112O	Injected By	SMT
Lab ID	10265141004	Instrument ID	10MSHR06 (U)
Filename	U140512A_12	GC Column ID	USD397111H
Analyzed	05/12/2014 19:24	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:59	1.34e7	1.04e7	5.29e6	4.08e6	1.206e4	5.093e2	1.29	
1,2,3,6,7,8-HxCDD-13C	35:04	1.48e7	1.13e7	4.67e6	3.65e6	1.206e4	8.949e2	1.31	
1,2,3,7,8,9-HxCDD-13C	35:18	2.01e7	1.59e7	6.83e6	5.48e6	3.589e3	1.246e3	1.26	
1,2,3,4,7,8-HxCDD	34:60	ND	ND	ND	ND	1.143e3	9.797e2		
1,2,3,6,7,8-HxCDD	35:04	ND	ND	ND	ND	1.143e3	9.671e2		
1,2,3,7,8,9-HxCDD	35:19	ND	ND	ND	ND	1.394e3	8.846e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:48	7.72e6	1.73e7	2.70e6	6.21e6	1.249e4	8.848e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:04	5.31e6	1.18e7	1.77e6	3.92e6	6.198e3	1.745e3	0.45	
1,2,3,4,6,7,8-HpCDF	36:48	ND	ND	ND	ND	3.233e3	1.288e3		
1,2,3,4,7,8,9-HpCDF	38:05	ND	ND	ND	ND	2.147e3	8.633e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	1.04e7	9.29e6	3.52e6	3.20e6	1.173e4	5.417e3	1.12	
1,2,3,4,6,7,8-HpCDD	37:39	1.32e4	9.81e3	6.71e3	4.24e3	2.443e3	1.242e3	1.34	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:24	ND	ND	ND	ND	1.754e3	1.890e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:14	1.06e7	1.18e7	2.90e6	3.19e6	6.519e3	4.126e3	0.89	
OCDD	40:14	2.07e4	3.46e4	9.79e3	6.90e3	2.912e3	5.964e3	0.60	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK113O	Injected By	SMT
Lab ID	10265141005	Instrument ID	10MSHR06 (U)
Filename	U140512A_13	GC Column ID	USD397111H
Analyzed	05/12/2014 20:09	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:42	3.76e7	4.76e7	5.60e6	7.26e6	1.956e4	8.259e3	0.79	
2,3,7,8-TCDF	21:43	5.09e4	5.69e4	1.24e4	1.65e4	1.663e3	2.510e3	0.89	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:56	3.39e7	4.22e7	5.15e6	6.22e6	1.268e4	7.361e2	0.80	
2,3,7,8-TCDD-13C	22:52	2.71e7	3.39e7	3.89e6	4.72e6	1.268e4	8.806e3	0.80	
2,3,7,8-TCDD-37Cl4	22:55	8.22e6		1.12e6		4.258e3	-----		
2,3,7,8-TCDD	22:55	ND	ND	ND	ND	1.619e3	1.189e3		
Other TCDD 1	18:38	8.09e4	9.71e4					0.83	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	3.47e7	2.24e7	6.48e6	4.03e6	1.141e4	7.646e3	1.55	
2,3,4,7,8-PeCDF-13C	31:01	3.06e7	2.04e7	7.26e6	4.80e6	2.076e3	8.556e3	1.50	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.081e3	1.036e3		
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	1.212e3	1.455e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	2.22e7	1.45e7	5.36e6	3.49e6	8.804e3	1.837e3	1.53	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	1.824e3	2.448e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.15e7	2.17e7	3.84e6	6.99e6	7.659e3	1.063e4	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	1.34e7	2.59e7	3.98e6	8.41e6	7.659e3	3.196e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:50	1.17e7	2.18e7	3.88e6	7.30e6	7.659e3	9.607e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:33	9.98e6	1.93e7	3.37e6	6.89e6	5.931e3	1.051e4	0.52	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	9.890e2	2.474e3		
1,2,3,6,7,8-HxCDF	34:19	ND	ND	ND	ND	1.696e3	3.454e3		
2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	1.466e3	2.661e3		
1,2,3,7,8,9-HxCDF	35:34	ND	ND	ND	ND	1.116e3	2.229e3		

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Client Name	PASI Wisconsin		
Client ID	MAK113O	Injected By	SMT
Lab ID	10265141005	Instrument ID	10MSHR06 (U)
Filename	U140512A_13	GC Column ID	USD397111H
Analyzed	05/12/2014 20:09	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	1.44e7	1.16e7	5.53e6	4.46e6	1.463e4	7.424e3	1.24	
1,2,3,6,7,8-HxCDD-13C	35:03	1.53e7	1.25e7	5.11e6	4.44e6	9.483e3	7.424e3	1.22	
1,2,3,7,8,9-HxCDD-13C	35:17	2.03e7	1.69e7	6.95e6	6.16e6	7.842e3	9.370e3	1.20	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	1.291e3	1.209e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.287e3	1.852e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	1.603e3	1.343e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	8.78e6	1.93e7	3.35e6	7.14e6	3.957e3	9.308e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	6.67e6	1.45e7	2.37e6	4.80e6	4.236e3	3.997e3	0.46	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	1.965e3	2.051e3		
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	2.292e3	2.091e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	1.20e7	1.13e7	3.99e6	3.78e6	1.210e4	2.980e3	1.07	
1,2,3,4,6,7,8-HpCDD	37:39	ND	ND	ND	ND	1.112e3	1.096e3		

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:22	ND	ND	ND	ND	1.065e3	2.836e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	1.39e7	1.55e7	3.73e6	4.24e6	1.551e3	1.558e3	0.90	
OCDD	40:13	2.26e4	3.45e4	6.09e3	5.30e3	2.451e3	4.835e3	0.66	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK114O	Injected By	SMT
Lab ID	10265141006	Instrument ID	10MSHR06 (U)
Filename	U140512A_14	GC Column ID	USD397111H
Analyzed	05/12/2014 20:54	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:40	4.29e7	5.32e7	5.86e6	7.82e6	2.667e4	9.094e3	0.81	
2,3,7,8-TCDF	21:45	5.98e4	6.61e4	2.24e4	1.12e4	2.123e3	2.809e3	0.90	I

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:56	3.51e7	4.25e7	5.44e6	6.49e6	1.505e4	1.876e3	0.83	
2,3,7,8-TCDD-13C		22:53	2.90e7	3.70e7	4.04e6	5.08e6	9.549e3	3.319e3	0.78	
2,3,7,8-TCDD-37Cl4		22:56	7.21e6		1.00e6		5.892e3	-----		
2,3,7,8-TCDD		22:56	ND	ND	ND	ND	1.632e3	1.557e3		
Other TCDD	1	18:60	6.22e4	7.16e4					0.87	
	2	18:36	9.04e4	1.15e5					0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	3.92e7	2.53e7	6.88e6	4.52e6	1.502e4	3.795e3	1.55	
2,3,4,7,8-PeCDF-13C	31:01	3.56e7	2.30e7	7.83e6	5.01e6	1.295e4	7.258e3	1.55	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.298e3	1.555e3		
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	7.127e2	1.212e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	2.61e7	1.63e7	6.26e6	4.02e6	4.716e3	1.648e3	1.60	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	1.797e3	2.515e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.25e7	2.41e7	4.54e6	8.40e6	2.178e3	2.970e2	0.52	
1,2,3,6,7,8-HxCDF-13C	34:19	1.51e7	2.80e7	4.67e6	8.99e6	1.827e3	2.970e2	0.54	
2,3,4,6,7,8-HxCDF-13C	34:51	1.31e7	2.49e7	4.47e6	8.30e6	1.912e3	2.978e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:34	1.13e7	2.19e7	3.86e6	7.10e6	8.429e3	2.264e3	0.52	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	2.112e3	1.027e3		
1,2,3,6,7,8-HxCDF	34:20	ND	ND	ND	ND	3.099e3	1.030e3		
2,3,4,6,7,8-HxCDF	34:52	ND	ND	ND	ND	1.985e3	1.030e3		

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Client Name	PASI Wisconsin		
Client ID	MAK114O	Injected By	SMT
Lab ID	10265141006	Instrument ID	10MSHR06 (U)
Filename	U140512A_14	GC Column ID	USD397111H
Analyzed	05/12/2014 20:54	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:35	ND	ND	ND	ND	2.351e3	1.262e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:59	1.69e7	1.32e7	6.03e6	4.75e6	2.958e3	3.756e3	1.28	
1,2,3,6,7,8-HxCDD-13C	35:03	1.68e7	1.35e7	6.08e6	4.67e6	3.038e3	8.540e2	1.24	
1,2,3,7,8,9-HxCDD-13C	35:18	2.31e7	1.79e7	8.74e6	6.41e6	3.038e3	3.715e2	1.29	
1,2,3,4,7,8-HxCDD	34:60	ND	ND	ND	ND	1.722e3	1.266e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.214e3	9.204e2		
1,2,3,7,8,9-HxCDD	35:19	ND	ND	ND	ND	1.556e3	6.416e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	9.15e6	2.02e7	3.25e6	7.45e6	6.576e3	6.476e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	6.68e6	1.43e7	2.18e6	4.46e6	3.716e3	8.093e3	0.47	
1,2,3,4,6,7,8-HpCDF	36:48	1.30e4	1.56e4	7.78e3	6.22e3	1.297e3	1.599e3	0.83	I
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	1.630e3	1.559e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	1.22e7	1.14e7	4.53e6	3.98e6	8.125e3	4.910e3	1.06	
1,2,3,4,6,7,8-HpCDD	37:40	6.76e3	1.79e4	2.37e3	1.31e4	2.141e3	2.031e3	0.38	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:23	ND	ND	ND	ND	2.248e3	2.359e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:13	1.36e7	1.50e7	3.85e6	4.17e6	2.591e3	4.356e3	0.91	
OCDD	40:14	ND	ND	ND	ND	3.277e3	5.216e3		

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Minneapolis, MN 55414

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK115O	Injected By	SMT
Lab ID	10265141007	Instrument ID	10MSHR06 (U)
Filename	U140512A_15	GC Column ID	USD397111H
Analyzed	05/12/2014 21:39	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:40	4.80e7	6.08e7	7.08e6	8.80e6	2.628e4	9.677e3	0.79	
2,3,7,8-TCDF		21:42	3.43e4	8.13e4	5.90e3	2.79e4	2.491e3	3.569e3	0.42	I
Other TCDF	1	24:45	1.58e4	2.11e4					0.75	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:55	3.60e7	4.47e7	5.49e6	6.95e6	8.845e3	5.635e3	0.81	
2,3,7,8-TCDD-13C		22:52	3.30e7	4.10e7	4.49e6	5.68e6	1.316e4	1.041e4	0.80	
2,3,7,8-TCDD-37Cl4		22:55	8.29e6		1.19e6		5.015e3	-----		
2,3,7,8-TCDD		22:55	ND	ND	ND	ND	2.254e3	1.616e3		
Other TCDD	1	18:40	7.41e4	1.10e5					0.67	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:40	4.14e7	2.70e7	8.24e6	5.27e6	1.898e4	8.410e3	1.53	
2,3,4,7,8-PeCDF-13C	31:01	3.79e7	2.38e7	8.44e6	5.43e6	2.474e4	1.159e4	1.59	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.204e3	1.985e3		
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	1.170e3	1.767e3		

Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		31:24	2.69e7	1.73e7	6.89e6	4.35e6	1.587e4	7.145e3	1.55	
1,2,3,7,8-PeCDD		31:26	ND	ND	ND	ND	1.568e3	3.921e3		
Other PeCDD	1	29:42	1.31e4	2.54e4					0.52	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.32e7	2.50e7	4.24e6	8.38e6	1.833e3	2.496e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	1.53e7	2.88e7	4.85e6	9.16e6	1.494e3	1.179e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:50	1.37e7	2.63e7	4.76e6	9.42e6	7.242e2	1.179e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:33	1.14e7	2.24e7	3.60e6	7.44e6	2.676e3	5.473e3	0.51	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	3.049e3	1.646e3		
1,2,3,6,7,8-HxCDF	34:19	ND	ND	ND	ND	2.588e3	1.848e3		

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Client Name	PASI Wisconsin		
Client ID	MAK115O	Injected By	SMT
Lab ID	10265141007	Instrument ID	10MSHR06 (U)
Filename	U140512A_15	GC Column ID	USD397111H
Analyzed	05/12/2014 21:39	ICAL ID	U140322

2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	2.765e3	1.945e3		
1,2,3,7,8,9-HxCDF	35:34	ND	ND	ND	ND	2.430e3	1.974e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	1.73e7	1.36e7	6.55e6	5.17e6	5.916e3	1.257e3	1.27	
1,2,3,6,7,8-HxCDD-13C	35:03	1.78e7	1.42e7	6.15e6	4.82e6	2.266e3	3.409e2	1.25	
1,2,3,7,8,9-HxCDD-13C	35:17	2.06e7	1.75e7	7.52e6	6.21e6	2.122e3	1.689e3	1.17	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	1.601e3	1.866e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.668e3	1.593e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	1.534e3	9.952e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	9.76e6	2.15e7	3.63e6	8.08e6	5.573e3	6.125e2	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	7.55e6	1.56e7	2.50e6	5.19e6	5.205e3	8.920e3	0.49	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	1.666e3	1.685e3		
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	1.878e3	1.877e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	1.38e7	1.26e7	5.06e6	4.58e6	2.798e3	8.251e2	1.10	
1,2,3,4,6,7,8-HpCDD	37:39	1.17e4	1.32e4	9.97e3	5.15e3	1.875e3	1.607e3	0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:22	ND	ND	ND	ND	1.444e3	1.960e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	1.48e7	1.65e7	4.14e6	4.61e6	1.442e4	5.834e3	0.90	
OCDD	40:12	9.71e3	8.52e3	3.16e3	5.02e3	2.110e3	4.877e3	1.14	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK116O	Injected By	SMT
Lab ID	10265141008	Instrument ID	10MSHR06 (U)
Filename	U140512A_16	GC Column ID	USD397111H
Analyzed	05/12/2014 22:23	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:40	5.09e7	6.34e7	7.69e6	9.67e6	1.403e4	1.414e4	0.80	
2,3,7,8-TCDF	21:39	7.53e4	1.12e5	1.64e4	2.11e4	1.621e3	2.345e3	0.67	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:55	3.80e7	4.78e7	5.81e6	7.21e6	1.002e4	4.152e3	0.79	
2,3,7,8-TCDD-13C	22:51	3.52e7	4.34e7	5.04e6	6.31e6	1.056e4	1.724e3	0.81	
2,3,7,8-TCDD-37Cl4	22:53	8.78e6		1.20e6		7.861e3	-----		
2,3,7,8-TCDD	22:54	ND	ND	ND	ND	1.682e3	1.816e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:40	4.64e7	3.00e7	8.03e6	5.43e6	2.286e4	5.221e3	1.55	
2,3,4,7,8-PeCDF-13C	31:01	4.20e7	2.69e7	9.31e6	5.82e6	1.240e4	3.554e3	1.56	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.426e3	1.690e3		
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	1.388e3	1.751e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	3.14e7	1.96e7	7.13e6	4.40e6	1.324e4	3.272e3	1.60	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	1.491e3	3.122e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	1.53e7	2.75e7	4.91e6	8.91e6	2.170e4	1.865e2	0.56	
1,2,3,6,7,8-HxCDF-13C	34:18	1.76e7	3.48e7	5.67e6	1.12e7	1.562e3	9.449e1	0.51	
2,3,4,6,7,8-HxCDF-13C	34:50	1.53e7	2.96e7	5.18e6	1.04e7	8.496e2	1.324e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:33	1.38e7	2.58e7	4.41e6	8.13e6	8.713e3	5.516e3	0.54	
1,2,3,4,7,8-HxCDF	34:13	ND	ND	ND	ND	2.464e3	1.077e3		
1,2,3,6,7,8-HxCDF	34:19	ND	ND	ND	ND	3.064e3	2.456e3		
2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	2.532e3	1.985e3		
1,2,3,7,8,9-HxCDF	35:34	ND	ND	ND	ND	2.464e3	2.385e3		

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Client Name	PASI Wisconsin		
Client ID	MAK116O	Injected By	SMT
Lab ID	10265141008	Instrument ID	10MSHR06 (U)
Filename	U140512A_16	GC Column ID	USD397111H
Analyzed	05/12/2014 22:23	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	1.96e7	1.57e7	7.73e6	6.10e6	2.702e4	7.968e3	1.25	
1,2,3,6,7,8-HxCDD-13C	35:03	2.11e7	1.68e7	7.18e6	5.86e6	1.751e4	4.233e3	1.25	
1,2,3,7,8,9-HxCDD-13C	35:17	2.54e7	2.01e7	8.56e6	7.20e6	1.571e3	7.916e2	1.26	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	1.940e3	1.409e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.594e3	1.297e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	1.885e3	1.454e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	1.10e7	2.42e7	4.08e6	9.03e6	9.129e3	1.752e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	8.45e6	1.80e7	2.74e6	6.09e6	1.480e4	1.217e4	0.47	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	3.870e3	1.557e3		
1,2,3,4,7,8,9-HpCDF	38:04	ND	ND	ND	ND	3.065e3	1.628e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	1.48e7	1.38e7	5.31e6	4.81e6	6.114e3	5.414e3	1.07	
1,2,3,4,6,7,8-HpCDD	37:39	8.65e3	9.35e3	3.00e3	2.67e3	1.401e3	1.616e3	0.93	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:22	ND	ND	ND	ND	1.575e3	2.138e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	1.68e7	1.86e7	4.58e6	5.27e6	6.155e3	4.391e3	0.90	
OCDD	40:14	6.94e4	9.35e4	1.99e4	3.14e4	2.934e3	5.902e3	0.74	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK117O	Injected By	CVS
Lab ID	10265141009	Instrument ID	10MSHR06 (U)
Filename	U140513A_13	GC Column ID	USD397111H
Analyzed	05/13/2014 17:49	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:35	6.57e7	8.37e7	9.50e6	1.23e7	1.706e4	9.827e3	0.78	
2,3,7,8-TCDF		21:35	5.50e4	1.24e5	9.96e3	3.29e4	1.953e3	3.105e3	0.44	I
Other TCDF	1	20:30	4.32e4	5.36e4					0.81	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:50	5.72e7	7.27e7	8.91e6	1.09e7	1.001e4	3.843e3	0.79	
2,3,7,8-TCDD-13C		22:47	4.95e7	6.24e7	6.86e6	8.87e6	1.364e4	1.121e4	0.79	
2,3,7,8-TCDD-37Cl4		22:49	1.35e7		1.77e6		4.879e3	-----		
2,3,7,8-TCDD		22:48	ND	ND	ND	ND	1.591e3	1.594e3		
Other TCDD	1	18:33	1.02e5	1.36e5					0.75	

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		29:36	7.01e7	4.72e7	1.32e7	8.69e6	3.970e4	1.091e3	1.49	
2,3,4,7,8-PeCDF-13C		30:58	6.97e7	4.50e7	1.54e7	9.86e6	1.981e4	2.372e4	1.55	
1,2,3,7,8-PeCDF		29:37	ND	ND	ND	ND	2.020e3	2.027e3		
2,3,4,7,8-PeCDF		30:58	ND	ND	ND	ND	2.516e3	1.668e3		
Other PeCDF	1	27:54	2.57e4	1.71e4					1.51	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	5.07e7	3.43e7	1.08e7	7.23e6	6.035e3	6.992e3	1.48	
1,2,3,7,8-PeCDD	31:23	ND	ND	ND	ND	2.826e3	5.786e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	2.74e7	5.06e7	9.49e6	1.74e7	2.312e3	1.754e3	0.54	
1,2,3,6,7,8-HxCDF-13C	34:17	3.30e7	6.42e7	1.05e7	1.98e7	2.312e3	5.321e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:49	2.85e7	5.49e7	9.73e6	1.86e7	8.564e2	8.007e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:31	2.56e7	4.86e7	8.64e6	1.68e7	1.624e4	3.527e3	0.53	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	2.373e3	1.792e3		
1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	2.373e3	1.772e3		

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Client Name	PASI Wisconsin		
Client ID	MAK117O	Injected By	CVS
Lab ID	10265141009	Instrument ID	10MSHR06 (U)
Filename	U140513A_13	GC Column ID	USD397111H
Analyzed	05/13/2014 17:49	ICAL ID	U140322

2,3,4,6,7,8-HxCDF	34:50	ND	ND	ND	ND	1.757e3	1.952e3		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	3.031e3	1.708e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	3.62e7	2.95e7	1.28e7	1.01e7	2.108e4	2.526e3	1.23	
1,2,3,6,7,8-HxCDD-13C	35:01	3.80e7	2.97e7	1.28e7	1.01e7	2.108e4	2.136e3	1.28	
1,2,3,7,8,9-HxCDD-13C	35:16	5.00e7	4.14e7	1.72e7	1.40e7	3.813e3	1.645e3	1.21	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.428e3	1.386e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	1.616e3	2.000e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	1.475e3	2.096e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.16e7	4.80e7	8.07e6	1.80e7	9.876e3	1.581e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	1.59e7	3.69e7	5.00e6	1.14e7	7.546e3	7.597e3	0.43	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	3.042e3	1.791e3		
1,2,3,4,7,8,9-HpCDF	38:00	ND	ND	ND	ND	2.542e3	1.791e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	3.07e7	2.90e7	1.08e7	1.04e7	1.103e4	1.065e4	1.06	
1,2,3,4,6,7,8-HpCDD	37:36	1.68e4	3.01e4	6.03e3	1.44e4	1.904e3	2.079e3	0.56	I
Other HpCDD 1	36:59	2.45e4	2.46e4					1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	2.43e4	1.64e4	1.63e4	7.07e3	2.319e3	4.947e3	1.49	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	3.50e7	4.00e7	1.03e7	1.21e7	1.225e4	2.882e3	0.88	
OCDD	40:12	5.56e4	9.53e4	1.81e4	2.85e4	3.871e3	6.259e3	0.58	I

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Minneapolis, MN 55414

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK117O	Injected By	CVS
Lab ID	10265141009	Instrument ID	10MSHR06 (U)
Filename	U140513A_13	GC Column ID	USD397111H
Analyzed	05/13/2014 17:49	ICAL ID	U140322

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PCDD/PCDF Detected Peak List

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Client Name	PASI Wisconsin		
Client ID	MAK118O	Injected By	CVS
Lab ID	10265141010	Instrument ID	10MSHR06 (U)
Filename	U140513A_14	GC Column ID	USD397111H
Analyzed	05/13/2014 18:34	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:36	6.64e7	8.16e7	9.49e6	1.21e7	1.749e4	8.722e3	0.81	
2,3,7,8-TCDF		21:38	7.83e4	1.29e5	1.56e4	3.35e4	1.436e3	3.353e3	0.61	I
Other TCDF	1	20:34	6.53e4	8.05e4					0.81	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:50	5.92e7	7.23e7	8.93e6	1.11e7	1.083e4	3.256e3	0.82	
2,3,7,8-TCDD-13C		22:48	4.94e7	6.18e7	6.62e6	8.50e6	8.158e3	3.758e3	0.80	
2,3,7,8-TCDD-37Cl4		22:49	1.40e7		1.90e6		2.892e3	-----		
2,3,7,8-TCDD		22:49	ND	ND	ND	ND	1.917e3	2.268e3		
Other TCDD	1	18:31	8.27e4	1.10e5					0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:37	6.95e7	4.54e7	1.29e7	8.24e6	3.071e4	2.233e3	1.53	
2,3,4,7,8-PeCDF-13C	30:58	6.68e7	4.47e7	1.49e7	9.79e6	2.228e4	5.448e3	1.49	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.772e3	2.333e3		
2,3,4,7,8-PeCDF	30:59	ND	ND	ND	ND	1.687e3	2.072e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	5.03e7	3.24e7	1.12e7	6.85e6	3.809e3	1.201e3	1.55	
1,2,3,7,8-PeCDD	31:23	ND	ND	ND	ND	1.582e3	4.338e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:11	2.40e7	4.62e7	7.74e6	1.46e7	7.915e2	9.181e2	0.52	
1,2,3,6,7,8-HxCDF-13C	34:17	2.85e7	5.36e7	9.12e6	1.74e7	2.274e3	1.152e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:49	2.54e7	5.00e7	8.45e6	1.71e7	1.330e4	1.836e4	0.51	
1,2,3,7,8,9-HxCDF-13C	35:32	2.14e7	4.12e7	7.48e6	1.37e7	1.784e3	7.436e3	0.52	
1,2,3,4,7,8-HxCDF	34:12	ND	ND	ND	ND	3.726e3	3.822e3		
1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	4.444e3	2.519e3		
2,3,4,6,7,8-HxCDF	34:50	ND	ND	ND	ND	4.602e3	3.785e3		

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Client Name	PASI Wisconsin		
Client ID	MAK118O	Injected By	CVS
Lab ID	10265141010	Instrument ID	10MSHR06 (U)
Filename	U140513A_14	GC Column ID	USD397111H
Analyzed	05/13/2014 18:34	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:33	ND	ND	ND	ND	3.880e3	3.349e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:57	3.06e7	2.44e7	1.15e7	9.36e6	2.148e4	7.782e3	1.25	
1,2,3,6,7,8-HxCDD-13C	35:02	3.52e7	2.80e7	1.25e7	9.87e6	2.148e4	1.033e4	1.26	
1,2,3,7,8,9-HxCDD-13C	35:16	4.53e7	3.75e7	1.58e7	1.27e7	2.485e3	3.511e3	1.21	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.875e3	2.323e3		
1,2,3,6,7,8-HxCDD	35:02	4.13e4	1.78e4	1.50e4	7.31e3	2.283e3	2.039e3	2.32	I
1,2,3,7,8,9-HxCDD	35:17	ND	ND	ND	ND	2.283e3	2.658e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	1.85e7	4.17e7	6.63e6	1.55e7	1.741e4	5.561e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:01	1.53e7	3.28e7	4.85e6	1.09e7	1.719e4	1.583e4	0.47	
1,2,3,4,6,7,8-HpCDF	36:46	1.74e4	2.05e4	7.17e3	1.18e4	3.391e3	3.392e3	0.85	I
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	3.439e3	2.912e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:37	2.70e7	2.56e7	9.45e6	8.91e6	1.632e4	6.215e3	1.05	
1,2,3,4,6,7,8-HpCDD	37:37	5.02e4	4.25e4	1.83e4	1.86e4	2.606e3	2.499e3	1.18	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	2.208e3	5.048e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	3.15e7	3.53e7	8.81e6	1.00e7	5.494e3	2.482e3	0.89	
OCDD	40:12	8.22e4	1.09e5	1.84e4	2.59e4	3.774e3	7.012e3	0.75	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK119O	Injected By	SMT
Lab ID	10265141011	Instrument ID	10MSHR05 (F)
Filename	F140512A_10	GC Column ID	USD331524H
Analyzed	05/12/2014 19:02	ICAL ID	F131125

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:04	1.32e7	1.65e7	2.36e6	3.02e6	7.161e3	4.520e3	0.80	
2,3,7,8-TCDF		17:05	2.09e4	2.72e4	2.49e3	5.45e3	8.428e2	1.053e3	0.77	E
Other TCDF	1	15:55	1.02e4	1.48e4					0.69	
Ethers	1	17:05	2.09e4	2.72e4					0.77	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:09	1.15e7	1.51e7	2.32e6	2.99e6	4.214e3	3.396e3	0.76	
2,3,7,8-TCDD-13C	17:55	9.92e6	1.28e7	1.68e6	2.19e6	7.023e3	2.468e3	0.78	
2,3,7,8-TCDD-37Cl4	17:56	2.33e6		4.04e5		2.516e3	-----		
2,3,7,8-TCDD	17:56	ND	ND	ND	ND	9.787e2	1.108e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	1.55e7	9.44e6	1.92e6	1.20e6	1.457e3	1.527e3	1.64	
2,3,4,7,8-PeCDF-13C	26:08	1.43e7	8.77e6	1.61e6	1.01e6	2.484e3	2.486e3	1.63	
1,2,3,7,8-PeCDF	23:50	1.64e4	1.45e4	3.99e3	3.92e3	7.064e2	8.213e2	1.13	I
2,3,4,7,8-PeCDF	26:13	1.71e4	1.10e4	3.40e3	4.54e3	7.074e2	7.905e2	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	1.06e7	6.79e6	1.09e6	7.13e5	2.113e3	2.078e3	1.56	
1,2,3,7,8-PeCDD	26:58	ND	ND	ND	ND	7.424e2	7.876e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	5.87e6	1.18e7	1.24e6	2.40e6	9.839e2	1.616e3	0.50	
1,2,3,6,7,8-HxCDF-13C	33:13	7.46e6	1.46e7	1.39e6	2.60e6	9.641e2	1.616e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:11	6.60e6	1.28e7	1.37e6	2.65e6	6.528e2	7.924e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	5.69e6	1.13e7	1.15e6	2.20e6	2.935e3	5.601e3	0.51	
1,2,3,4,7,8-HxCDF	33:01	1.36e4	8.86e3	3.44e3	2.95e3	9.391e2	1.107e3	1.53	I
1,2,3,6,7,8-HxCDF	33:15	ND	ND	ND	ND	7.810e2	1.072e3		

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Client Name	PASI Wisconsin		
Client ID	MAK119O	Injected By	SMT
Lab ID	10265141011	Instrument ID	10MSHR05 (F)
Filename	F140512A_10	GC Column ID	USD331524H
Analyzed	05/12/2014 19:02	ICAL ID	F131125

2,3,4,6,7,8-HxCDF	34:14	1.09e4	1.63e4	2.60e3	3.92e3	9.852e2	8.941e2	0.67	I
1,2,3,7,8,9-HxCDF	35:22	1.54e4	1.17e4	3.83e3	4.04e3	9.949e2	8.420e2	1.32	

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	7.48e6	5.85e6	1.85e6	1.31e6	9.402e2	1.411e3	1.28	
1,2,3,6,7,8-HxCDD-13C	34:34	8.42e6	6.81e6	1.68e6	1.43e6	1.343e3	8.038e2	1.24	
1,2,3,7,8,9-HxCDD-13C	34:56	1.04e7	8.21e6	2.09e6	1.64e6	4.682e3	4.731e3	1.26	
1,2,3,4,7,8-HxCDD	34:26	ND	ND	ND	ND	9.904e2	9.408e2		
1,2,3,6,7,8-HxCDD	34:35	1.04e4	1.17e4	2.36e3	2.68e3	1.024e3	9.096e2	0.89	I
1,2,3,7,8,9-HxCDD	34:57	9.92e3	7.93e3	3.70e3	2.95e3	8.486e2	8.318e2	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	4.41e6	9.87e6	1.15e6	2.60e6	2.879e3	4.007e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.19e6	7.89e6	7.37e5	1.86e6	4.554e3	4.197e3	0.40	
1,2,3,4,6,7,8-HpCDF	37:18	1.35e4	9.93e3	2.99e3	6.10e3	7.947e2	1.166e3	1.35	I
1,2,3,4,7,8,9-HpCDF	39:02	8.14e3	1.08e4	2.83e3	3.84e3	7.947e2	1.166e3	0.75	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:31	6.59e6	6.17e6	1.61e6	1.46e6	7.824e2	9.105e2	1.07	
1,2,3,4,6,7,8-HpCDD	38:32	1.45e4	1.89e4	5.81e3	4.96e3	9.227e2	7.702e2	0.77	I
Other HpCDD 1	37:40	1.22e4	1.05e4					1.15	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:39	1.82e4	1.88e4	4.65e3	5.17e3	8.865e2	1.299e3	0.97	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:32	8.82e6	1.01e7	2.22e6	2.39e6	4.064e3	5.375e3	0.87	
OCDD	41:34	2.09e4	2.99e4	6.31e3	9.36e3	1.462e3	2.727e3	0.70	I

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Client Name	PASI Wisconsin		
Client ID	MAK119O	Injected By	SMT
Lab ID	10265141011	Instrument ID	10MSHR05 (F)
Filename	F140512A_10	GC Column ID	USD331524H
Analyzed	05/12/2014 19:02	ICAL ID	F131125

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PCDD/PCDF Detected Peak List

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Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120O	Injected By	SMT
Lab ID	10265141012	Instrument ID	10MSHR05 (F)
Filename	F140512A_11	GC Column ID	USD331524H
Analyzed	05/12/2014 19:47	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:04	1.33e7	1.70e7	2.41e6	3.23e6	9.140e3	6.125e3	0.78	
2,3,7,8-TCDF	17:05	2.13e4	1.58e4	1.19e4	3.05e3	1.130e3	1.212e3	1.35	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:09	1.22e7	1.59e7	2.33e6	3.04e6	6.266e3	4.915e3	0.77	
2,3,7,8-TCDD-13C	17:55	1.01e7	1.33e7	1.89e6	2.41e6	5.553e3	4.196e3	0.76	
2,3,7,8-TCDD-37Cl4	17:56	2.08e6		3.73e5		1.311e3	-----		
2,3,7,8-TCDD	17:56	ND	ND	ND	ND	9.295e2	8.749e2		
Other TCDD 1	14:44	1.97e4	2.61e4					0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	1.58e7	9.76e6	2.07e6	1.25e6	2.885e3	3.554e3	1.62	
2,3,4,7,8-PeCDF-13C	26:07	1.50e7	9.35e6	1.72e6	1.08e6	3.912e3	3.663e3	1.61	
1,2,3,7,8-PeCDF	23:47	ND	ND	ND	ND	6.855e2	8.735e2		
2,3,4,7,8-PeCDF	26:09	ND	ND	ND	ND	8.786e2	9.615e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:56	1.07e7	6.78e6	1.15e6	7.41e5	2.496e3	2.255e3	1.58	
1,2,3,7,8-PeCDD	26:55	6.13e3	1.75e4	6.05e3	2.59e3	5.509e2	8.380e2	0.35	I

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	6.43e6	1.22e7	1.29e6	2.37e6	5.842e2	1.529e3	0.53	
1,2,3,6,7,8-HxCDF-13C	33:13	7.97e6	1.54e7	1.44e6	2.86e6	8.827e2	1.548e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:11	6.87e6	1.29e7	1.53e6	2.81e6	6.481e2	1.112e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:20	6.05e6	1.20e7	1.26e6	2.47e6	6.195e3	3.565e3	0.50	
1,2,3,4,7,8-HxCDF	33:03	ND	ND	ND	ND	9.125e2	7.319e2		
1,2,3,6,7,8-HxCDF	33:13	5.25e3	9.25e3	2.44e3	2.50e3	8.566e2	8.241e2	0.57	I
2,3,4,6,7,8-HxCDF	34:14	7.17e3	9.73e3	2.86e3	5.96e3	8.778e2	7.319e2	0.74	I
1,2,3,7,8,9-HxCDF	35:20	1.32e4	9.16e3	5.42e3	2.50e3	7.738e2	7.869e2	1.44	I

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Client Name	PASI Wisconsin		
Client ID	MAK120O	Injected By	SMT
Lab ID	10265141012	Instrument ID	10MSHR05 (F)
Filename	F140512A_11	GC Column ID	USD331524H
Analyzed	05/12/2014 19:47	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	7.87e6	6.09e6	1.80e6	1.37e6	1.935e3	2.212e3	1.29	
1,2,3,6,7,8-HxCDD-13C	34:34	8.85e6	6.75e6	1.82e6	1.40e6	1.699e3	6.620e2	1.31	
1,2,3,7,8,9-HxCDD-13C	34:56	1.15e7	9.21e6	2.44e6	1.92e6	3.470e3	7.553e3	1.25	
1,2,3,4,7,8-HxCDD	34:26	ND	ND	ND	ND	5.769e2	8.136e2		
1,2,3,6,7,8-HxCDD	34:35	ND	ND	ND	ND	5.584e2	5.604e2		
1,2,3,7,8,9-HxCDD	34:58	ND	ND	ND	ND	5.584e2	5.800e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	4.70e6	1.09e7	1.17e6	2.85e6	1.773e3	2.720e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.53e6	8.50e6	8.18e5	2.03e6	1.028e3	4.284e3	0.42	
1,2,3,4,6,7,8-HpCDF	37:19	7.77e3	6.50e3	3.71e3	2.74e3	1.106e3	9.178e2	1.20	
1,2,3,4,7,8,9-HpCDF	39:04	ND	ND	ND	ND	1.011e3	7.866e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	6.95e6	6.64e6	1.68e6	1.65e6	1.797e3	2.870e3	1.05	
1,2,3,4,6,7,8-HpCDD	38:33	1.70e4	6.20e3	4.95e3	2.46e3	9.414e2	7.377e2	2.74	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:39	7.68e3	8.59e3	2.41e3	3.21e3	8.542e2	1.205e3	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:32	9.90e6	1.08e7	2.32e6	2.58e6	7.892e3	2.317e3	0.91	
OCDD	41:34	2.31e4	1.71e4	7.08e3	4.89e3	1.680e3	2.026e3	1.35	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK121O	Injected By	SMT
Lab ID	10265141013	Instrument ID	10MSHR05 (F)
Filename	F140512A_12	GC Column ID	USD331524H
Analyzed	05/12/2014 20:32	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:04	1.14e7	1.43e7	2.07e6	2.58e6	7.519e3	7.438e3	0.79	
2,3,7,8-TCDF	17:04	2.17e4	1.59e4	4.15e3	3.51e3	7.368e2	8.457e2	1.36	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:10	1.01e7	1.30e7	2.00e6	2.51e6	6.153e3	3.833e3	0.78	
2,3,7,8-TCDD-13C	17:55	8.39e6	1.11e7	1.54e6	1.98e6	4.442e3	5.511e3	0.76	
2,3,7,8-TCDD-37Cl4	17:57	2.04e6		3.87e5		1.552e3	-----		
2,3,7,8-TCDD	17:56	ND	ND	ND	ND	9.965e2	9.476e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:46	1.31e7	8.12e6	1.67e6	1.03e6	6.133e3	3.218e3	1.62	
2,3,4,7,8-PeCDF-13C	26:08	1.27e7	7.72e6	1.42e6	8.81e5	5.113e3	2.719e3	1.64	
1,2,3,7,8-PeCDF	23:48	ND	ND	ND	ND	7.315e2	5.731e2		
2,3,4,7,8-PeCDF	26:11	ND	ND	ND	ND	8.570e2	7.787e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	9.06e6	5.65e6	9.93e5	6.41e5	1.324e3	1.819e3	1.60	
1,2,3,7,8-PeCDD	26:58	ND	ND	ND	ND	4.898e2	7.540e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	5.11e6	1.02e7	9.91e5	1.97e6	7.954e2	4.906e2	0.50	
1,2,3,6,7,8-HxCDF-13C	33:13	6.50e6	1.23e7	1.22e6	2.25e6	3.745e2	6.164e2	0.53	
2,3,4,6,7,8-HxCDF-13C	34:11	5.58e6	1.09e7	1.16e6	2.17e6	7.954e2	4.906e2	0.51	
1,2,3,7,8,9-HxCDF-13C	35:20	5.01e6	9.95e6	1.04e6	2.04e6	2.534e3	7.889e3	0.50	
1,2,3,4,7,8-HxCDF	33:03	8.53e3	7.57e3	1.78e3	2.19e3	8.347e2	7.345e2	1.13	
1,2,3,6,7,8-HxCDF	33:16	6.78e3	7.33e3	1.98e3	1.65e3	9.076e2	7.469e2	0.93	I
2,3,4,6,7,8-HxCDF	34:12	1.36e4	6.36e3	4.66e3	2.25e3	8.341e2	7.473e2	2.14	I
1,2,3,7,8,9-HxCDF	35:20	1.36e4	8.59e3	2.93e3	2.56e3	8.973e2	6.458e2	1.58	I

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Client Name	PASI Wisconsin		
Client ID	MAK121O	Injected By	SMT
Lab ID	10265141013	Instrument ID	10MSHR05 (F)
Filename	F140512A_12	GC Column ID	USD331524H
Analyzed	05/12/2014 20:32	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	6.38e6	5.04e6	1.52e6	1.18e6	3.272e3	1.710e3	1.26	
1,2,3,6,7,8-HxCDD-13C	34:34	7.43e6	5.71e6	1.55e6	1.20e6	2.431e3	9.757e2	1.30	
1,2,3,7,8,9-HxCDD-13C	34:56	9.29e6	7.48e6	1.89e6	1.55e6	5.851e3	3.673e3	1.24	
1,2,3,4,7,8-HxCDD	34:24	4.55e3	5.85e3	1.01e3	2.02e3	5.653e2	6.128e2	0.78	I
1,2,3,6,7,8-HxCDD	34:35	8.98e3	8.69e3	2.25e3	3.24e3	6.238e2	5.854e2	1.03	I
1,2,3,7,8,9-HxCDD	34:60	5.75e3	5.07e3	1.41e3	2.11e3	6.453e2	5.716e2	1.13	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	4.07e6	8.95e6	9.82e5	2.24e6	7.444e3	3.412e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:03	2.88e6	6.99e6	6.97e5	1.64e6	1.844e3	4.954e3	0.41	
1,2,3,4,6,7,8-HpCDF	37:20	1.07e4	1.19e4	4.24e3	4.95e3	9.102e2	9.451e2	0.89	
1,2,3,4,7,8,9-HpCDF	39:04	9.69e3	5.47e3	5.07e3	7.54e3	8.024e2	9.978e2	1.77	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	5.71e6	5.35e6	1.45e6	1.27e6	4.491e3	4.938e3	1.07	
1,2,3,4,6,7,8-HpCDD	38:34	8.44e3	1.14e4	2.46e3	3.47e3	1.007e3	6.222e2	0.74	I
Other HpCDD 1	37:41	8.83e3	8.19e3					1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	6.35e3	1.00e4	3.59e3	4.19e3	8.786e2	1.444e3	0.63	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	8.05e6	9.25e6	1.91e6	2.20e6	7.950e3	4.359e3	0.87	
OCDD	41:32	1.55e4	1.46e4	4.20e3	5.18e3	1.467e3	1.943e3	1.06	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK122O	Injected By	SMT
Lab ID	10265141014	Instrument ID	10MSHR05 (F)
Filename	F140512A_13	GC Column ID	USD331524H
Analyzed	05/12/2014 21:17	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:04	1.27e7	1.60e7	2.37e6	2.98e6	6.899e3	6.958e3	0.79	
2,3,7,8-TCDF	17:06	1.14e4	2.86e4	2.17e3	5.92e3	7.606e2	1.134e3	0.40	I
Other TCDF 1	16:15	9.58e3	1.26e4					0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:10	1.20e7	1.57e7	2.42e6	3.10e6	4.729e3	2.204e3	0.77	
2,3,7,8-TCDD-13C	17:55	9.68e6	1.22e7	1.81e6	2.29e6	4.798e3	3.574e3	0.79	
2,3,7,8-TCDD-37Cl4	17:56	2.24e6		4.17e5		1.020e3	-----		
2,3,7,8-TCDD	17:56	ND	ND	ND	ND	7.665e2	1.034e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	1.52e7	9.19e6	1.86e6	1.21e6	3.401e3	3.763e3	1.66	
2,3,4,7,8-PeCDF-13C	26:08	1.44e7	8.75e6	1.71e6	9.77e5	3.018e3	1.791e3	1.65	
1,2,3,7,8-PeCDF	23:45	5.91e3	4.50e3	2.23e3	2.24e3	6.246e2	6.177e2	1.31	I
2,3,4,7,8-PeCDF	26:09	6.84e3	5.44e3	2.32e3	1.56e3	7.713e2	6.819e2	1.26	I

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	9.90e6	6.12e6	1.08e6	6.58e5	2.902e3	8.751e2	1.62	
1,2,3,7,8-PeCDD	26:58	ND	ND	ND	ND	3.872e2	7.262e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	5.92e6	1.15e7	1.14e6	2.30e6	8.682e2	1.113e3	0.51	
1,2,3,6,7,8-HxCDF-13C	33:13	7.32e6	1.43e7	1.38e6	2.64e6	9.476e2	6.161e2	0.51	
2,3,4,6,7,8-HxCDF-13C	34:11	6.38e6	1.22e7	1.27e6	2.45e6	9.177e2	1.113e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	5.64e6	1.10e7	1.21e6	2.24e6	3.044e3	2.893e3	0.51	
1,2,3,4,7,8-HxCDF	33:03	ND	ND	ND	ND	9.785e2	9.416e2		
1,2,3,6,7,8-HxCDF	33:15	ND	ND	ND	ND	8.524e2	8.505e2		
2,3,4,6,7,8-HxCDF	34:13	8.47e3	1.14e4	2.80e3	4.43e3	9.417e2	8.120e2	0.74	I
1,2,3,7,8,9-HxCDF	35:20	ND	ND	ND	ND	9.419e2	8.838e2		

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Client Name	PASI Wisconsin		
Client ID	MAK122O	Injected By	SMT
Lab ID	10265141014	Instrument ID	10MSHR05 (F)
Filename	F140512A_13	GC Column ID	USD331524H
Analyzed	05/12/2014 21:17	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	7.29e6	5.70e6	1.65e6	1.28e6	1.385e3	1.628e3	1.28	
1,2,3,6,7,8-HxCDD-13C	34:34	8.09e6	6.36e6	1.70e6	1.35e6	1.385e3	2.556e3	1.27	
1,2,3,7,8,9-HxCDD-13C	34:56	1.09e7	8.80e6	2.25e6	1.88e6	5.360e3	7.353e3	1.24	
1,2,3,4,7,8-HxCDD	34:26	ND	ND	ND	ND	7.706e2	8.171e2		
1,2,3,6,7,8-HxCDD	34:35	ND	ND	ND	ND	7.746e2	8.274e2		
1,2,3,7,8,9-HxCDD	34:58	ND	ND	ND	ND	7.706e2	7.288e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	4.38e6	1.01e7	1.12e6	2.63e6	2.178e3	7.391e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.21e6	7.41e6	7.09e5	1.71e6	2.478e3	7.391e3	0.43	
1,2,3,4,6,7,8-HpCDF	37:19	1.24e4	4.39e3	4.83e3	1.11e3	9.918e2	6.911e2	2.82	I
1,2,3,4,7,8,9-HpCDF	39:04	7.29e3	5.49e3	3.55e3	3.03e3	9.956e2	6.023e2	1.33	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	6.19e6	5.70e6	1.43e6	1.34e6	2.897e3	2.750e3	1.09	
1,2,3,4,6,7,8-HpCDD	38:34	8.83e3	1.06e4	3.98e3	3.12e3	7.674e2	6.850e2	0.84	I
Other HpCDD 1	37:39	8.99e3	8.32e3					1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:38	6.88e3	1.38e4	3.69e3	7.32e3	7.475e2	1.544e3	0.50	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	8.72e6	9.78e6	2.20e6	2.27e6	3.909e3	5.138e3	0.89	
OCDD	41:34	1.74e4	1.28e4	1.07e4	4.39e3	1.380e3	2.193e3	1.36	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK123O	Injected By	SMT
Lab ID	10265141015	Instrument ID	10MSHR05 (F)
Filename	F140512A_14	GC Column ID	USD331524H
Analyzed	05/12/2014 22:01	ICAL ID	F131125

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:03	1.40e7	1.80e7	2.68e6	3.32e6	8.649e3	2.941e3	0.78	
2,3,7,8-TCDF		17:07	2.35e4	2.72e4	3.73e3	5.18e3	8.933e2	1.057e3	0.87	E
Ethers	1	17:07	2.35e4	2.72e4					0.87	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		17:09	1.33e7	1.69e7	2.71e6	3.49e6	8.888e3	2.608e3	0.79	
2,3,7,8-TCDD-13C		17:55	1.07e7	1.36e7	1.90e6	2.46e6	5.329e3	1.659e3	0.78	
2,3,7,8-TCDD-37Cl4		17:56	2.64e6		4.88e5		1.015e3	-----		
2,3,7,8-TCDD		17:56	ND	ND	ND	ND	1.396e3	1.440e3		
Other TCDD	1	15:01	1.86e4	2.17e4					0.86	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	1.64e7	1.03e7	2.05e6	1.26e6	5.490e3	1.071e3	1.59	
2,3,4,7,8-PeCDF-13C	26:07	1.55e7	9.86e6	1.80e6	1.14e6	3.139e3	1.561e3	1.57	
1,2,3,7,8-PeCDF	23:46	ND	ND	ND	ND	1.124e3	1.006e3		
2,3,4,7,8-PeCDF	26:09	ND	ND	ND	ND	1.066e3	8.488e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:56	1.10e7	7.04e6	1.22e6	7.93e5	2.939e3	8.492e2	1.56	
1,2,3,7,8-PeCDD	26:59	ND	ND	ND	ND	5.460e2	8.705e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	6.42e6	1.24e7	1.37e6	2.49e6	1.443e3	1.225e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:13	8.18e6	1.58e7	1.51e6	2.75e6	2.142e3	1.225e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:11	7.02e6	1.36e7	1.48e6	2.77e6	5.266e3	1.973e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	6.30e6	1.23e7	1.31e6	2.57e6	2.448e3	3.062e3	0.51	
1,2,3,4,7,8-HxCDF	33:04	5.46e3	5.53e3	1.34e3	1.58e3	1.030e3	7.988e2	0.99	I
1,2,3,6,7,8-HxCDF	33:13	4.40e3	2.67e3	1.23e3	5.96e2	9.084e2	7.647e2	1.64	I

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Client Name	PASI Wisconsin		
Client ID	MAK123O	Injected By	SMT
Lab ID	10265141015	Instrument ID	10MSHR05 (F)
Filename	F140512A_14	GC Column ID	USD331524H
Analyzed	05/12/2014 22:01	ICAL ID	F131125

2,3,4,6,7,8-HxCDF	34:10	5.99e3	3.45e3	1.87e3	9.31e2	9.489e2	7.988e2	1.73	I
1,2,3,7,8,9-HxCDF	35:20	2.93e3	2.32e3	1.16e3	8.36e2	1.079e3	6.648e2	1.26	

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	7.99e6	6.25e6	1.77e6	1.33e6	4.965e3	5.585e3	1.28	
1,2,3,6,7,8-HxCDD-13C	34:34	9.15e6	6.97e6	1.82e6	1.47e6	6.803e3	2.598e3	1.31	
1,2,3,7,8,9-HxCDD-13C	34:56	1.21e7	9.62e6	2.55e6	1.96e6	1.675e3	1.422e3	1.26	
1,2,3,4,7,8-HxCDD	34:26	ND	ND	ND	ND	6.567e2	6.505e2		
1,2,3,6,7,8-HxCDD	34:35	ND	ND	ND	ND	6.562e2	6.960e2		
1,2,3,7,8,9-HxCDD	34:58	ND	ND	ND	ND	7.347e2	4.643e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	4.70e6	1.06e7	1.18e6	2.78e6	4.580e3	3.616e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.71e6	8.61e6	8.30e5	1.99e6	5.817e3	2.441e3	0.43	
1,2,3,4,6,7,8-HpCDF	37:19	ND	ND	ND	ND	1.018e3	4.632e2		
1,2,3,4,7,8,9-HpCDF	39:04	ND	ND	ND	ND	7.034e2	6.850e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:31	6.87e6	6.47e6	1.67e6	1.52e6	3.814e3	1.779e3	1.06	
1,2,3,4,6,7,8-HpCDD	38:31	6.33e3	4.71e3	1.79e3	2.98e3	1.026e3	1.043e3	1.34	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:41	1.08e4	9.05e3	2.92e3	2.66e3	1.134e3	1.430e3	1.19	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	1.03e7	1.15e7	2.43e6	2.89e6	3.647e3	8.855e2	0.89	
OCDD	41:34	1.30e4	2.05e4	4.77e3	6.70e3	1.280e3	2.618e3	0.63	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK124O	Injected By	SMT
Lab ID	10265141016	Instrument ID	10MSHR05 (F)
Filename	F140512A_15	GC Column ID	USD331524H
Analyzed	05/12/2014 22:46	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:04	1.25e7	1.59e7	2.37e6	2.99e6	1.023e4	4.235e3	0.79	
2,3,7,8-TCDF	17:05	1.19e4	2.14e4	2.07e3	3.73e3	6.216e2	9.901e2	0.56	I
Other TCDF 1	16:15	1.14e4	1.29e4					0.89	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:09	1.17e7	1.51e7	2.30e6	3.05e6	5.713e3	1.778e3	0.78	
2,3,7,8-TCDD-13C	17:55	9.30e6	1.23e7	1.77e6	2.21e6	3.933e3	1.233e3	0.76	
2,3,7,8-TCDD-37Cl4	17:57	2.37e6		4.25e5		1.069e3	-----		
2,3,7,8-TCDD	17:56	ND	ND	ND	ND	8.878e2	1.119e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	1.50e7	9.38e6	1.93e6	1.19e6	2.943e3	4.768e2	1.60	
2,3,4,7,8-PeCDF-13C	26:07	1.40e7	8.54e6	1.61e6	1.01e6	2.681e3	1.843e3	1.64	
1,2,3,7,8-PeCDF	23:46	ND	ND	ND	ND	9.868e2	9.708e2		
2,3,4,7,8-PeCDF	26:09	ND	ND	ND	ND	8.702e2	7.859e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	1.01e7	6.24e6	1.11e6	7.33e5	4.066e3	2.232e3	1.62	
1,2,3,7,8-PeCDD	26:58	ND	ND	ND	ND	7.905e2	9.474e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:02	5.97e6	1.15e7	1.09e6	2.12e6	6.747e2	4.997e2	0.52	
1,2,3,6,7,8-HxCDF-13C	33:13	7.27e6	1.41e7	1.46e6	2.59e6	5.491e2	3.345e2	0.52	
2,3,4,6,7,8-HxCDF-13C	34:11	6.35e6	1.21e7	1.32e6	2.52e6	8.288e2	3.654e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	5.62e6	1.11e7	1.19e6	2.16e6	4.815e3	4.404e3	0.51	
1,2,3,4,7,8-HxCDF	33:00	4.17e3	5.05e3	1.02e3	1.47e3	1.030e3	7.737e2	0.82	I
1,2,3,6,7,8-HxCDF	33:15	ND	ND	ND	ND	1.064e3	9.002e2		
2,3,4,6,7,8-HxCDF	34:13	ND	ND	ND	ND	8.629e2	7.580e2		
1,2,3,7,8,9-HxCDF	35:22	1.20e4	5.76e3	6.30e3	1.24e3	1.056e3	7.477e2	2.09	I

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Client Name	PASI Wisconsin		
Client ID	MAK124O	Injected By	SMT
Lab ID	10265141016	Instrument ID	10MSHR05 (F)
Filename	F140512A_15	GC Column ID	USD331524H
Analyzed	05/12/2014 22:46	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	7.20e6	5.63e6	1.71e6	1.37e6	1.562e4	9.522e2	1.28	
1,2,3,6,7,8-HxCDD-13C	34:34	8.16e6	6.71e6	1.64e6	1.38e6	1.257e3	1.242e3	1.22	
1,2,3,7,8,9-HxCDD-13C	34:56	1.11e7	8.90e6	2.28e6	1.79e6	1.048e3	1.239e3	1.24	
1,2,3,4,7,8-HxCDD	34:26	ND	ND	ND	ND	7.664e2	7.480e2		
1,2,3,6,7,8-HxCDD	34:35	ND	ND	ND	ND	7.803e2	8.361e2		
1,2,3,7,8,9-HxCDD	34:58	7.12e3	4.61e3	2.72e3	9.98e2	7.421e2	9.031e2	1.55	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:19	4.52e6	1.05e7	1.06e6	2.51e6	2.366e3	1.637e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.47e6	8.11e6	8.42e5	1.96e6	1.672e3	1.997e3	0.43	
1,2,3,4,6,7,8-HpCDF	37:22	4.84e3	2.41e3	2.22e3	7.33e2	8.700e2	5.658e2	2.01	I
1,2,3,4,7,8,9-HpCDF	39:08	5.68e3	5.70e3	1.48e3	1.44e3	6.960e2	6.125e2	1.00	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	6.83e6	6.11e6	1.79e6	1.49e6	4.050e3	2.626e3	1.12	
1,2,3,4,6,7,8-HpCDD	38:35	1.07e4	4.97e3	2.98e3	1.94e3	7.299e2	4.975e2	2.16	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	6.62e3	1.03e4	1.79e3	1.73e3	6.366e2	1.255e3	0.64	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	9.63e6	1.03e7	2.27e6	2.56e6	7.823e3	2.909e3	0.93	
OCDD	41:33	8.37e3	1.76e4	2.76e3	4.58e3	1.157e3	2.126e3	0.48	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK130L	Injected By	SMT
Lab ID	10265141017	Instrument ID	10MSHR05 (F)
Filename	F140512A_16	GC Column ID	USD331524H
Analyzed	05/12/2014 23:31	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:03	1.16e7	1.45e7	2.13e6	2.71e6	5.049e3	2.840e3	0.80	
2,3,7,8-TCDF	17:02	3.76e4	2.06e4	1.15e4	4.40e3	1.511e3	8.534e2	1.82	I

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		17:09	1.14e7	1.45e7	2.25e6	2.77e6	4.513e3	8.286e2	0.78	
2,3,7,8-TCDD-13C		17:55	8.82e6	1.12e7	1.62e6	2.08e6	5.345e3	2.076e3	0.79	
2,3,7,8-TCDD-37Cl4		17:57	2.06e6		3.65e5		6.776e2	-----		
2,3,7,8-TCDD		17:56	ND	ND	ND	ND	9.822e2	1.323e3		
Other TCDD	1	17:37	5.01e3	6.27e3					0.80	
	2	15:01	9.15e3	1.15e4					0.80	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:44	1.38e7	8.46e6	1.78e6	1.04e6	1.403e3	2.037e3	1.63	
2,3,4,7,8-PeCDF-13C	26:07	1.25e7	7.70e6	1.39e6	8.38e5	3.215e3	2.003e3	1.62	
1,2,3,7,8-PeCDF	23:45	ND	ND	ND	ND	6.469e2	4.464e2		
2,3,4,7,8-PeCDF	26:09	ND	ND	ND	ND	8.410e2	6.445e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	9.13e6	5.66e6	9.88e5	6.09e5	1.332e3	1.078e3	1.61	
1,2,3,7,8-PeCDD	26:58	ND	ND	ND	ND	4.892e2	5.298e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	5.44e6	1.04e7	1.05e6	2.00e6	5.152e2	2.456e3	0.53	
1,2,3,6,7,8-HxCDF-13C	33:12	6.98e6	1.35e7	1.29e6	2.52e6	4.662e3	4.114e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:11	5.53e6	1.07e7	1.16e6	2.19e6	3.267e3	2.122e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:19	4.94e6	9.89e6	1.02e6	1.92e6	1.680e3	2.097e3	0.50	
1,2,3,4,7,8-HxCDF	33:03	ND	ND	ND	ND	8.065e2	7.369e2		
1,2,3,6,7,8-HxCDF	33:14	ND	ND	ND	ND	8.504e2	6.803e2		
2,3,4,6,7,8-HxCDF	34:13	ND	ND	ND	ND	9.154e2	8.431e2		

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Client Name	PASI Wisconsin		
Client ID	MAK130L	Injected By	SMT
Lab ID	10265141017	Instrument ID	10MSHR05 (F)
Filename	F140512A_16	GC Column ID	USD331524H
Analyzed	05/12/2014 23:31	ICAL ID	F131125

1,2,3,7,8,9-HxCDF	35:20	ND	ND	ND	ND	8.276e2	5.318e2		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:24	6.68e6	4.84e6	1.46e6	1.09e6	4.961e3	2.201e3	1.38	
1,2,3,6,7,8-HxCDD-13C	34:33	7.47e6	5.96e6	1.44e6	1.14e6	6.411e3	1.477e3	1.25	
1,2,3,7,8,9-HxCDD-13C	34:55	9.91e6	7.83e6	2.03e6	1.53e6	6.320e2	3.349e2	1.27	
1,2,3,4,7,8-HxCDD	34:25	ND	ND	ND	ND	8.992e2	7.893e2		
1,2,3,6,7,8-HxCDD	34:34	ND	ND	ND	ND	8.719e2	7.084e2		
1,2,3,7,8,9-HxCDD	34:57	ND	ND	ND	ND	8.719e2	7.286e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	3.91e6	8.84e6	9.90e5	2.19e6	4.278e3	1.427e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	39:02	2.94e6	7.29e6	7.31e5	1.72e6	4.278e3	2.909e3	0.40	
1,2,3,4,6,7,8-HpCDF	37:19	8.82e3	6.67e3	5.03e3	3.72e3	8.537e2	5.698e2	1.32	I
1,2,3,4,7,8,9-HpCDF	39:03	ND	ND	ND	ND	8.011e2	6.903e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:31	5.80e6	5.22e6	1.32e6	1.16e6	3.142e3	1.606e3	1.11	
1,2,3,4,6,7,8-HpCDD	38:33	9.62e3	4.51e3	3.41e3	1.62e3	7.936e2	7.236e2	2.13	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	5.09e3	7.60e3	1.65e3	3.02e3	7.934e2	1.568e3	0.67	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:32	7.34e6	8.63e6	1.76e6	2.00e6	7.359e3	2.273e3	0.85	
OCDD	41:33	3.04e4	1.93e4	1.28e4	4.74e3	1.606e3	2.027e3	1.58	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK132L	Injected By	SMT
Lab ID	10265141018	Instrument ID	10MSHR05 (F)
Filename	F140512A_17	GC Column ID	USD331524H
Analyzed	05/13/2014 00:16	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:03	1.34e7	1.69e7	2.53e6	3.20e6	6.558e3	1.941e3	0.79	
2,3,7,8-TCDF	17:01	9.22e4	1.73e4	1.51e4	3.42e3	1.694e3	7.175e2	5.32	I
Other TCDF 1	16:15	1.18e4	1.61e4					0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:08	1.40e7	1.77e7	2.81e6	3.62e6	6.136e3	1.254e3	0.79	
2,3,7,8-TCDD-13C	17:54	1.03e7	1.32e7	1.89e6	2.39e6	4.267e3	1.112e3	0.78	
2,3,7,8-TCDD-37Cl4	17:55	2.37e6		4.46e5		1.738e3	-----		
2,3,7,8-TCDD	17:55	ND	ND	ND	ND	1.066e3	9.648e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:44	1.60e7	9.67e6	2.02e6	1.23e6	4.187e3	7.617e2	1.66	
2,3,4,7,8-PeCDF-13C	26:06	1.49e7	8.98e6	1.71e6	1.01e6	4.414e3	3.171e2	1.66	
1,2,3,7,8-PeCDF	23:45	ND	ND	ND	ND	8.853e2	5.310e2		
2,3,4,7,8-PeCDF	26:08	ND	ND	ND	ND	7.464e2	6.120e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:55	1.04e7	6.54e6	1.17e6	7.49e5	2.158e3	1.298e3	1.58	
1,2,3,7,8-PeCDD	26:57	ND	ND	ND	ND	5.239e2	6.164e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:00	6.31e6	1.21e7	1.25e6	2.24e6	1.088e3	3.083e2	0.52	
1,2,3,6,7,8-HxCDF-13C	33:12	7.83e6	1.47e7	1.45e6	2.66e6	1.088e3	9.986e2	0.53	
2,3,4,6,7,8-HxCDF-13C	34:10	6.39e6	1.24e7	1.34e6	2.50e6	3.904e2	1.789e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:19	5.88e6	1.15e7	1.18e6	2.24e6	5.528e3	2.969e3	0.51	
1,2,3,4,7,8-HxCDF	33:02	ND	ND	ND	ND	7.428e2	6.299e2		
1,2,3,6,7,8-HxCDF	33:14	ND	ND	ND	ND	7.517e2	6.456e2		
2,3,4,6,7,8-HxCDF	34:12	ND	ND	ND	ND	7.517e2	7.050e2		
1,2,3,7,8,9-HxCDF	35:20	ND	ND	ND	ND	7.876e2	5.809e2		

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Client Name	PASI Wisconsin		
Client ID	MAK132L	Injected By	SMT
Lab ID	10265141018	Instrument ID	10MSHR05 (F)
Filename	F140512A_17	GC Column ID	USD331524H
Analyzed	05/13/2014 00:16	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:24	7.81e6	5.95e6	1.88e6	1.42e6	2.463e3	1.592e3	1.31	
1,2,3,6,7,8-HxCDD-13C	34:33	8.93e6	7.06e6	1.79e6	1.45e6	2.463e3	1.592e3	1.26	
1,2,3,7,8,9-HxCDD-13C	34:55	1.20e7	9.28e6	2.34e6	1.91e6	1.561e3	1.225e3	1.30	
1,2,3,4,7,8-HxCDD	34:25	ND	ND	ND	ND	8.455e2	6.016e2		
1,2,3,6,7,8-HxCDD	34:34	ND	ND	ND	ND	6.754e2	6.016e2		
1,2,3,7,8,9-HxCDD	34:57	ND	ND	ND	ND	5.942e2	5.879e2		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:17	4.53e6	1.07e7	1.21e6	2.82e6	4.431e3	3.787e3	0.42	
1,2,3,4,7,8,9-HpCDF-13C	39:02	3.95e6	8.54e6	8.38e5	2.02e6	5.260e3	3.421e3	0.46	
1,2,3,4,6,7,8-HpCDF	37:17	7.82e3	6.21e3	2.74e3	1.75e3	9.002e2	8.400e2	1.26	I
1,2,3,4,7,8,9-HpCDF	39:03	ND	ND	ND	ND	8.416e2	7.525e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:31	7.00e6	6.38e6	1.72e6	1.45e6	2.882e3	1.668e3	1.10	
1,2,3,4,6,7,8-HpCDD	38:31	1.24e4	1.26e4	5.58e3	4.29e3	9.757e2	9.936e2	0.99	
Other HpCDD 1	37:39	1.38e4	1.41e4					0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:38	7.91e3	8.14e3	2.97e3	2.50e3	1.061e3	1.267e3	0.97	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:32	9.05e6	1.02e7	2.17e6	2.51e6	1.041e4	7.433e3	0.88	
OCDD	41:33	2.49e4	4.20e4	6.16e3	1.12e4	6.466e2	1.282e3	0.59	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK134L	Injected By	CVS
Lab ID	10265141019	Instrument ID	10MSHR06 (U)
Filename	U140513A_08	GC Column ID	USD397111H
Analyzed	05/13/2014 14:05	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:36	7.75e7	9.96e7	1.17e7	1.49e7	3.073e4	1.873e4	0.78	
2,3,7,8-TCDF		21:35	4.72e4	4.51e4	1.75e4	3.11e4	4.965e3	2.536e3	1.05	I
Other TCDF	1	20:33	6.41e4	8.41e4					0.76	
Ethers	1	21:39	6.42e4	8.01e4					0.80	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:51	6.82e7	8.42e7	1.05e7	1.26e7	8.258e3	6.939e3	0.81	
2,3,7,8-TCDD-13C		22:47	5.58e7	7.19e7	8.42e6	1.06e7	1.852e4	1.362e4	0.78	
2,3,7,8-TCDD-37Cl4		22:49	1.44e7		1.96e6		2.622e3	-----		
2,3,7,8-TCDD		22:48	ND	ND	ND	ND	2.242e3	2.188e3		
Other TCDD	1	18:57	6.53e4	7.65e4					0.85	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	8.09e7	5.27e7	1.43e7	9.48e6	2.917e4	1.910e4	1.53	
2,3,4,7,8-PeCDF-13C	30:58	8.14e7	5.36e7	2.02e7	1.26e7	1.649e4	1.326e4	1.52	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.475e3	1.559e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.438e3	1.583e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	5.94e7	3.96e7	1.39e7	9.23e6	2.195e4	9.846e3	1.50	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	1.092e3	1.976e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	3.25e7	6.21e7	1.15e7	2.16e7	2.207e4	3.086e3	0.52	
1,2,3,6,7,8-HxCDF-13C	34:17	3.97e7	7.51e7	1.22e7	2.31e7	4.045e3	3.086e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:48	3.55e7	6.90e7	1.13e7	2.27e7	4.045e3	1.902e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:31	3.03e7	5.87e7	1.05e7	2.01e7	1.566e4	1.785e4	0.52	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	2.311e3	1.585e3		

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Client Name	PASI Wisconsin		
Client ID	MAK134L	Injected By	CVS
Lab ID	10265141019	Instrument ID	10MSHR06 (U)
Filename	U140513A_08	GC Column ID	USD397111H
Analyzed	05/13/2014 14:05	ICAL ID	U140322

1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.977e3	1.562e3
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	2.373e3	2.254e3
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	2.114e3	2.140e3

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	4.15e7	3.27e7	1.60e7	1.22e7	1.223e4	6.172e3	1.27	
1,2,3,6,7,8-HxCDD-13C	35:01	4.80e7	3.67e7	1.70e7	1.33e7	1.223e4	6.172e3	1.31	
1,2,3,7,8,9-HxCDD-13C	35:16	6.14e7	4.93e7	2.17e7	1.68e7	2.175e3	1.366e3	1.25	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	2.403e3	1.375e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	2.750e3	1.429e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	2.440e3	1.663e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.63e7	5.72e7	9.56e6	2.06e7	6.008e3	7.063e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:01	1.91e7	4.29e7	5.94e6	1.36e7	5.318e3	1.226e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:47	ND	ND	ND	ND	2.519e3	1.576e3		
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	2.768e3	2.149e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	3.64e7	3.27e7	1.27e7	1.20e7	2.397e4	1.306e4	1.11	
1,2,3,4,6,7,8-HpCDD	37:37	1.55e4	2.80e4	7.68e3	1.56e4	2.327e3	1.571e3	0.55	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	2.956e3	3.375e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	4.15e7	4.64e7	1.19e7	1.28e7	2.452e3	8.996e2	0.89	
OCDD	40:11	7.68e4	7.86e4	2.77e4	2.75e4	3.071e3	4.800e3	0.98	

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Client Name	PASI Wisconsin		
Client ID	MAK134L	Injected By	CVS
Lab ID	10265141019	Instrument ID	10MSHR06 (U)
Filename	U140513A_08	GC Column ID	USD397111H
Analyzed	05/13/2014 14:05	ICAL ID	U140322

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK135L	Injected By	CVS
Lab ID	10265141020	Instrument ID	10MSHR06 (U)
Filename	U140513A_09	GC Column ID	USD397111H
Analyzed	05/13/2014 14:50	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:36	7.97e7	9.94e7	1.23e7	1.55e7	2.734e4	1.485e4	0.80	
2,3,7,8-TCDF	21:40	1.62e5	1.32e5	3.12e4	2.29e4	4.643e3	2.638e3	1.23	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:51	6.90e7	8.82e7	1.07e7	1.37e7	1.123e4	6.428e3	0.78	
2,3,7,8-TCDD-13C	22:47	5.80e7	7.34e7	8.01e6	1.06e7	1.303e4	1.429e4	0.79	
2,3,7,8-TCDD-37Cl4	22:49	1.48e7		2.15e6		3.615e3	-----		
2,3,7,8-TCDD	22:48	ND	ND	ND	ND	1.955e3	2.234e3		
Other TCDD 1	18:32	9.41e4	1.06e5					0.89	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	8.46e7	5.47e7	1.58e7	1.01e7	1.664e4	3.209e3	1.55	
2,3,4,7,8-PeCDF-13C	30:58	8.27e7	5.32e7	1.81e7	1.17e7	1.473e4	1.346e4	1.55	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.704e3	1.734e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.444e3	1.657e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	6.37e7	3.97e7	1.49e7	9.12e6	1.403e4	4.541e3	1.60	
1,2,3,7,8-PeCDD	31:23	ND	ND	ND	ND	1.164e3	2.636e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	3.26e7	6.26e7	1.12e7	2.24e7	3.569e3	7.746e3	0.52	
1,2,3,6,7,8-HxCDF-13C	34:17	3.86e7	7.44e7	1.24e7	2.43e7	3.569e3	7.617e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:49	3.60e7	6.86e7	1.31e7	2.51e7	2.477e3	4.409e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:31	3.25e7	6.03e7	1.06e7	2.02e7	1.535e4	9.847e3	0.54	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	1.735e3	1.616e3		
1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.735e3	1.616e3		
2,3,4,6,7,8-HxCDF	34:50	ND	ND	ND	ND	1.605e3	1.750e3		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.745e3	1.590e3		

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Client Name	PASI Wisconsin		
Client ID	MAK135L	Injected By	CVS
Lab ID	10265141020	Instrument ID	10MSHR06 (U)
Filename	U140513A_09	GC Column ID	USD397111H
Analyzed	05/13/2014 14:50	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:57	4.42e7	3.51e7	1.68e7	1.31e7	1.130e4	5.196e3	1.26	
1,2,3,6,7,8-HxCDD-13C	35:02	4.62e7	3.65e7	1.57e7	1.22e7	7.347e3	4.285e3	1.27	
1,2,3,7,8,9-HxCDD-13C	35:16	6.34e7	5.18e7	2.20e7	1.78e7	8.612e3	3.025e3	1.22	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	3.572e3	3.173e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	3.126e3	2.936e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	3.283e3	2.052e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.59e7	5.92e7	1.03e7	2.40e7	7.602e3	1.585e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:01	2.05e7	4.44e7	6.90e6	1.54e7	5.570e3	1.458e4	0.46	
1,2,3,4,6,7,8-HpCDF	36:46	1.02e4	1.56e4	4.94e3	4.58e3	2.675e3	1.276e3	0.66	I
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	2.489e3	1.152e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:37	3.68e7	3.56e7	1.25e7	1.25e7	5.300e3	2.712e4	1.03	
1,2,3,4,6,7,8-HpCDD	37:37	3.28e4	3.51e4	1.85e4	2.27e4	1.717e3	3.185e3	0.93	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	2.51e4	1.86e4	9.54e3	8.66e3	5.513e3	2.466e3	1.35	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	4.43e7	4.86e7	1.30e7	1.41e7	1.432e4	7.413e3	0.91	
OCDD	40:12	1.11e5	1.38e5	3.47e4	5.59e4	4.338e3	4.913e3	0.81	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK138L	Injected By	CVS
Lab ID	10265141021	Instrument ID	10MSHR06 (U)
Filename	U140513A_10	GC Column ID	USD397111H
Analyzed	05/13/2014 15:35	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:36	7.01e7	8.91e7	1.07e7	1.33e7	2.555e4	8.486e3	0.79	
2,3,7,8-TCDF	21:36	1.29e5	1.47e5	1.67e4	1.93e4	5.365e3	3.135e3	0.88	
Other TCDF 1	20:34	7.27e4	8.89e4					0.82	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:49	6.06e7	7.48e7	9.07e6	1.13e7	1.570e4	1.062e4	0.81	
2,3,7,8-TCDD-13C	22:47	5.21e7	6.51e7	7.42e6	9.60e6	1.131e4	1.677e4	0.80	
2,3,7,8-TCDD-37Cl4	22:48	1.30e7		1.75e6		2.366e3	-----		
2,3,7,8-TCDD	22:48	ND	ND	ND	ND	2.067e3	1.758e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	7.50e7	4.86e7	1.37e7	8.92e6	2.289e4	6.477e3	1.54	
2,3,4,7,8-PeCDF-13C	30:57	7.49e7	4.78e7	1.71e7	1.09e7	1.595e4	1.147e4	1.57	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.879e3	2.601e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.879e3	2.141e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	5.68e7	3.60e7	1.35e7	8.49e6	2.653e4	4.265e3	1.58	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	1.586e3	2.746e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	2.99e7	5.75e7	1.02e7	2.04e7	3.686e3	1.956e3	0.52	
1,2,3,6,7,8-HxCDF-13C	34:16	3.66e7	7.11e7	1.22e7	2.32e7	2.628e4	5.384e4	0.51	
2,3,4,6,7,8-HxCDF-13C	34:48	3.20e7	6.18e7	1.16e7	2.23e7	1.248e3	1.748e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:31	2.94e7	5.30e7	9.44e6	1.78e7	8.371e3	1.928e4	0.56	
1,2,3,4,7,8-HxCDF	34:10	ND	ND	ND	ND	2.525e3	1.447e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	2.353e3	1.389e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	2.268e3	1.342e3		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	2.436e3	1.013e3		

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Client Name	PASI Wisconsin		
Client ID	MAK138L	Injected By	CVS
Lab ID	10265141021	Instrument ID	10MSHR06 (U)
Filename	U140513A_10	GC Column ID	USD397111H
Analyzed	05/13/2014 15:35	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	4.09e7	3.27e7	1.57e7	1.25e7	5.620e3	8.223e3	1.25	
1,2,3,6,7,8-HxCDD-13C	35:01	4.43e7	3.53e7	1.51e7	1.20e7	8.727e3	8.223e3	1.25	
1,2,3,7,8,9-HxCDD-13C	35:15	5.44e7	4.49e7	1.82e7	1.50e7	4.617e3	3.633e3	1.21	
1,2,3,4,7,8-HxCDD	34:56	ND	ND	ND	ND	1.679e3	1.288e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	1.679e3	1.572e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	1.516e3	1.636e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	2.44e7	5.30e7	9.47e6	2.01e7	3.738e3	1.266e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:00	1.90e7	4.13e7	6.45e6	1.38e7	8.266e3	1.471e4	0.46	
1,2,3,4,6,7,8-HpCDF	36:44	1.86e4	3.97e4	7.87e3	1.79e4	2.234e3	2.295e3	0.47	I
1,2,3,4,7,8,9-HpCDF	38:00	ND	ND	ND	ND	2.175e3	2.283e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	3.31e7	3.16e7	1.20e7	1.17e7	1.709e4	2.775e4	1.05	
1,2,3,4,6,7,8-HpCDD	37:37	1.09e4	1.21e4	3.88e3	4.35e3	1.787e3	2.276e3	0.90	
Other HpCDD 1	36:58	3.14e4	2.69e4					1.16	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	ND	ND	ND	ND	2.439e3	3.182e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	4.08e7	4.43e7	1.22e7	1.32e7	4.218e3	2.038e3	0.92	
OCDD	40:12	7.66e4	8.98e4	2.72e4	2.43e4	3.278e3	2.900e3	0.85	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK121C	Injected By	CVS
Lab ID	10265141022	Instrument ID	10MSHR06 (U)
Filename	U140513A_11	GC Column ID	USD397111H
Analyzed	05/13/2014 16:19	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:37	6.97e7	9.00e7	1.02e7	1.35e7	1.128e4	1.211e4	0.77	
2,3,7,8-TCDF	21:37	8.98e4	1.44e5	1.71e4	3.22e4	2.114e3	3.555e3	0.62	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:51	6.11e7	7.64e7	9.78e6	1.23e7	9.246e3	7.561e3	0.80	
2,3,7,8-TCDD-13C	22:48	4.99e7	6.41e7	7.25e6	8.86e6	6.656e3	1.235e4	0.78	
2,3,7,8-TCDD-37Cl4	22:49	1.31e7		1.93e6		5.617e3	-----		
2,3,7,8-TCDD	22:49	ND	ND	ND	ND	1.940e3	1.462e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:37	7.56e7	4.82e7	1.46e7	9.42e6	2.615e4	2.614e4	1.57	
2,3,4,7,8-PeCDF-13C	30:58	7.12e7	4.52e7	1.60e7	1.04e7	1.329e4	9.579e3	1.58	
1,2,3,7,8-PeCDF	29:37	1.19e4	1.07e4	6.66e3	3.52e3	1.303e3	1.335e3	1.11	I
2,3,4,7,8-PeCDF	31:01	1.30e4	9.20e3	7.16e3	5.65e3	1.033e3	1.463e3	1.41	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	5.24e7	3.45e7	1.18e7	7.93e6	1.855e4	1.021e4	1.52	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	8.059e2	1.405e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	2.88e7	5.67e7	9.55e6	1.91e7	2.806e3	2.775e3	0.51	
1,2,3,6,7,8-HxCDF-13C	34:17	3.62e7	6.98e7	1.18e7	2.32e7	3.983e4	6.433e4	0.52	
2,3,4,6,7,8-HxCDF-13C	34:49	3.14e7	6.03e7	1.08e7	2.06e7	2.404e3	1.259e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:31	2.80e7	5.41e7	9.30e6	1.89e7	6.032e3	8.022e3	0.52	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	1.780e3	1.734e3		
1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.630e3	1.355e3		
2,3,4,6,7,8-HxCDF	34:50	ND	ND	ND	ND	1.504e3	1.301e3		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.374e3	1.665e3		

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Client Name	PASI Wisconsin		
Client ID	MAK121C	Injected By	CVS
Lab ID	10265141022	Instrument ID	10MSHR06 (U)
Filename	U140513A_11	GC Column ID	USD397111H
Analyzed	05/13/2014 16:19	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	3.91e7	3.20e7	1.55e7	1.26e7	9.246e3	6.893e3	1.22	
1,2,3,6,7,8-HxCDD-13C	35:02	4.11e7	3.23e7	1.42e7	1.12e7	1.001e4	1.335e4	1.27	
1,2,3,7,8,9-HxCDD-13C	35:16	5.54e7	4.41e7	1.99e7	1.60e7	1.001e4	1.385e4	1.26	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.466e3	1.366e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.340e3	1.366e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	1.513e3	1.096e3		
Other HxCDD 1	34:06	1.66e4	1.48e4					1.12	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.44e7	5.45e7	9.25e6	2.14e7	4.869e3	1.227e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:01	1.76e7	4.08e7	5.92e6	1.36e7	5.350e3	1.937e4	0.43	
1,2,3,4,6,7,8-HpCDF	36:45	2.34e4	1.63e4	1.17e4	1.13e4	2.207e3	1.806e3	1.43	I
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	2.346e3	2.216e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:37	3.29e7	3.10e7	1.16e7	1.08e7	1.639e3	2.965e4	1.06	
1,2,3,4,6,7,8-HpCDD	37:36	2.74e4	2.10e4	1.21e4	1.05e4	2.560e3	1.984e3	1.30	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	1.60e4	5.21e3	1.21e4	3.10e3	1.586e3	2.277e3	3.07	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	3.87e7	4.24e7	1.16e7	1.23e7	1.708e3	4.099e2	0.91	
OCDD	40:11	4.26e4	4.17e4	1.83e4	2.06e4	2.130e3	2.568e3	1.02	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK122C	Injected By	CVS
Lab ID	10265141023	Instrument ID	10MSHR06 (U)
Filename	U140513A_12	GC Column ID	USD397111H
Analyzed	05/13/2014 17:04	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:36	7.52e7	9.78e7	1.10e7	1.43e7	2.510e4	9.220e3	0.77	
2,3,7,8-TCDF	21:36	1.03e5	1.17e5	1.81e4	1.97e4	2.059e3	2.037e3	0.88	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:50	6.74e7	8.25e7	1.03e7	1.31e7	7.595e3	6.814e3	0.82	
2,3,7,8-TCDD-13C	22:47	5.74e7	7.14e7	8.18e6	1.04e7	7.269e3	2.452e3	0.80	
2,3,7,8-TCDD-37Cl4	22:49	1.39e7		1.85e6		2.225e3	-----		
2,3,7,8-TCDD	22:48	ND	ND	ND	ND	1.856e3	1.767e3		
Other TCDD 1	18:31	9.03e4	1.20e5					0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	8.54e7	5.51e7	1.60e7	1.03e7	4.174e4	1.759e4	1.55	
2,3,4,7,8-PeCDF-13C	30:57	7.95e7	5.19e7	1.83e7	1.19e7	1.245e4	7.859e3	1.53	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.420e3	1.225e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.342e3	1.243e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	6.02e7	3.86e7	1.46e7	9.13e6	1.615e4	7.627e3	1.56	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	1.464e3	1.355e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	3.21e7	6.24e7	1.10e7	2.22e7	2.266e3	1.849e3	0.51	
1,2,3,6,7,8-HxCDF-13C	34:16	4.11e7	7.65e7	1.31e7	2.55e7	5.034e3	1.684e3	0.54	
2,3,4,6,7,8-HxCDF-13C	34:48	3.53e7	6.79e7	1.25e7	2.46e7	2.333e3	1.334e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:30	3.08e7	6.13e7	1.05e7	2.14e7	1.048e4	9.959e3	0.50	
1,2,3,4,7,8-HxCDF	34:10	ND	ND	ND	ND	1.726e3	1.201e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.132e3	1.202e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.307e3	1.398e3		
1,2,3,7,8,9-HxCDF	35:31	ND	ND	ND	ND	1.364e3	1.055e3		

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Client Name	PASI Wisconsin		
Client ID	MAK122C	Injected By	CVS
Lab ID	10265141023	Instrument ID	10MSHR06 (U)
Filename	U140513A_12	GC Column ID	USD397111H
Analyzed	05/13/2014 17:04	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	4.34e7	3.46e7	1.71e7	1.38e7	1.221e4	7.493e3	1.26	
1,2,3,6,7,8-HxCDD-13C	35:01	4.70e7	3.76e7	1.69e7	1.28e7	1.073e4	4.087e3	1.25	
1,2,3,7,8,9-HxCDD-13C	35:15	5.88e7	4.84e7	2.22e7	1.80e7	3.147e3	7.143e3	1.21	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.628e3	1.416e3		
1,2,3,6,7,8-HxCDD	35:02	1.47e4	5.55e3	1.02e4	2.50e3	1.491e3	1.299e3	2.64	I
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	1.683e3	1.070e3		
Other HxCDD 1	34:05	1.60e4	1.42e4					1.12	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	2.61e7	5.82e7	9.87e6	2.19e7	5.501e3	1.299e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	1.94e7	4.28e7	6.52e6	1.50e7	5.501e3	1.299e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:45	2.45e4	2.05e4	1.21e4	9.67e3	2.886e3	2.272e3	1.19	
1,2,3,4,7,8,9-HpCDF	38:00	ND	ND	ND	ND	2.342e3	2.577e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	3.52e7	3.27e7	1.19e7	1.11e7	3.977e4	3.444e4	1.08	
1,2,3,4,6,7,8-HpCDD	37:36	5.82e4	4.32e4	2.46e4	2.04e4	2.330e3	2.145e3	1.35	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	ND	ND	ND	ND	1.294e3	2.018e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	4.00e7	4.49e7	1.16e7	1.30e7	1.723e3	1.654e3	0.89	
OCDD	40:10	6.71e4	5.99e4	2.47e4	2.60e4	3.565e3	3.619e3	1.12	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK123C	Injected By	CVS
Lab ID	10265141024	Instrument ID	10MSHR06 (U)
Filename	U140513B_03	GC Column ID	USD397111H
Analyzed	05/13/2014 23:02	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:34	5.47e7	6.93e7	7.81e6	1.08e7	1.465e4	6.146e3	0.79	
2,3,7,8-TCDF		21:37	7.07e4	7.44e4	1.42e4	1.14e4	1.917e3	2.051e3	0.95	I
Other TCDF	1	20:31	4.96e4	6.86e4					0.72	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:49	4.45e7	5.78e7	6.97e6	8.61e6	1.103e4	8.008e3	0.77	
2,3,7,8-TCDD-13C		22:46	3.81e7	4.72e7	5.42e6	6.62e6	1.011e4	3.882e3	0.81	
2,3,7,8-TCDD-37Cl4		22:49	9.47e6		1.37e6		2.281e3	-----		
2,3,7,8-TCDD		22:49	ND	ND	ND	ND	1.752e3	1.656e3		
Other TCDD	1	18:33	4.87e4	7.09e4					0.69	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	5.26e7	3.40e7	9.32e6	6.11e6	2.086e4	7.926e2	1.55	
2,3,4,7,8-PeCDF-13C	30:57	4.91e7	3.16e7	1.11e7	7.04e6	1.177e4	6.201e3	1.55	
1,2,3,7,8-PeCDF	29:36	1.23e4	5.76e3	4.31e3	1.94e3	1.145e3	1.652e3	2.14	I
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	9.866e2	1.324e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	3.42e7	2.29e7	7.99e6	5.58e6	5.023e3	3.650e2	1.50	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	8.552e2	8.345e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	1.93e7	3.74e7	6.46e6	1.26e7	8.560e2	1.077e3	0.52	
1,2,3,6,7,8-HxCDF-13C	34:16	2.44e7	4.69e7	7.92e6	1.55e7	7.360e2	8.287e2	0.52	
2,3,4,6,7,8-HxCDF-13C	34:48	2.12e7	4.18e7	7.50e6	1.46e7	1.165e3	3.592e2	0.51	
1,2,3,7,8,9-HxCDF-13C	35:30	1.89e7	3.67e7	5.92e6	1.11e7	4.641e3	3.255e3	0.52	
1,2,3,4,7,8-HxCDF	34:10	ND	ND	ND	ND	9.159e2	1.307e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.213e3	1.100e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.077e3	1.373e3		

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Client Name	PASI Wisconsin		
Client ID	MAK123C	Injected By	CVS
Lab ID	10265141024	Instrument ID	10MSHR06 (U)
Filename	U140513B_03	GC Column ID	USD397111H
Analyzed	05/13/2014 23:02	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:31	ND	ND	ND	ND	1.096e3	1.440e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	2.51e7	2.00e7	9.10e6	7.13e6	3.175e4	5.273e3	1.26	
1,2,3,6,7,8-HxCDD-13C	35:01	2.78e7	2.15e7	9.62e6	7.38e6	2.179e4	5.273e3	1.29	
1,2,3,7,8,9-HxCDD-13C	35:15	3.45e7	2.79e7	1.17e7	9.60e6	2.582e3	4.607e2	1.23	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.552e3	1.216e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	1.915e3	1.539e3		
1,2,3,7,8,9-HxCDD	35:15	ND	ND	ND	ND	1.505e3	1.300e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	1.55e7	3.30e7	5.71e6	1.18e7	1.641e4	1.368e4	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:00	1.15e7	2.58e7	3.72e6	8.55e6	1.641e4	4.778e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	1.595e3	1.758e3		
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	1.890e3	1.609e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	1.92e7	1.73e7	6.17e6	5.48e6	7.915e3	5.766e3	1.11	
1,2,3,4,6,7,8-HpCDD	37:36	2.27e4	6.84e3	1.63e4	4.50e3	1.795e3	1.532e3	3.32	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:21	1.24e4	2.05e4	5.24e3	9.03e3	7.991e2	1.612e3	0.60	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	2.27e7	2.57e7	6.37e6	7.10e6	3.254e3	1.743e3	0.88	
OCDD	40:12	5.83e4	5.12e4	2.39e4	2.11e4	1.053e3	2.011e3	1.14	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK124C	Injected By	CVS
Lab ID	10265141025	Instrument ID	10MSHR06 (U)
Filename	U140513B_04	GC Column ID	USD397111H
Analyzed	05/13/2014 23:47	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:36	4.82e7	6.18e7	7.36e6	9.34e6	1.705e4	1.811e4	0.78	
2,3,7,8-TCDF	21:37	7.63e4	7.53e4	1.36e4	2.01e4	2.116e3	2.961e3	1.01	I
Other TCDF 1	20:33	4.23e4	6.53e4					0.65	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:49	3.99e7	4.87e7	6.35e6	7.67e6	1.110e4	2.478e3	0.82	
2,3,7,8-TCDD-13C	22:46	3.39e7	4.21e7	4.81e6	6.20e6	1.395e4	1.399e3	0.80	
2,3,7,8-TCDD-37Cl4	22:49	8.77e6		1.25e6		3.920e3	-----		
2,3,7,8-TCDD	22:49	ND	ND	ND	ND	1.576e3	1.564e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	4.86e7	3.20e7	8.93e6	5.90e6	2.398e4	3.684e3	1.52	
2,3,4,7,8-PeCDF-13C	30:58	4.68e7	2.98e7	1.06e7	6.51e6	1.568e4	1.285e4	1.57	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.185e3	1.499e3		
2,3,4,7,8-PeCDF	30:59	ND	ND	ND	ND	1.146e3	1.345e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	3.34e7	2.12e7	7.49e6	5.00e6	4.536e3	4.619e3	1.57	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	9.394e2	1.202e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	1.78e7	3.41e7	5.91e6	1.14e7	4.020e3	6.023e2	0.52	
1,2,3,6,7,8-HxCDF-13C	34:16	2.16e7	4.06e7	6.80e6	1.33e7	1.104e3	5.099e2	0.53	
2,3,4,6,7,8-HxCDF-13C	34:48	1.90e7	3.74e7	6.26e6	1.23e7	2.391e2	8.909e2	0.51	
1,2,3,7,8,9-HxCDF-13C	35:31	1.63e7	3.19e7	5.66e6	1.09e7	9.325e3	1.047e4	0.51	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	1.908e3	1.172e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.234e3	1.189e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.325e3	1.384e3		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.010e3	1.100e3		

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Client Name	PASI Wisconsin		
Client ID	MAK124C	Injected By	CVS
Lab ID	10265141025	Instrument ID	10MSHR06 (U)
Filename	U140513B_04	GC Column ID	USD397111H
Analyzed	05/13/2014 23:47	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:57	2.36e7	1.74e7	8.44e6	6.79e6	5.641e3	9.881e3	1.36	
1,2,3,6,7,8-HxCDD-13C	35:01	2.38e7	2.08e7	8.44e6	6.79e6	5.507e3	9.649e3	1.14	
1,2,3,7,8,9-HxCDD-13C	35:16	3.20e7	2.59e7	1.00e7	8.16e6	2.619e3	1.451e3	1.24	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.599e3	1.516e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	1.893e3	1.613e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	1.831e3	1.642e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	1.35e7	2.90e7	5.05e6	1.05e7	4.735e3	1.134e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:01	9.72e6	2.08e7	3.20e6	6.86e6	6.836e3	1.061e4	0.47	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	2.001e3	1.648e3		
1,2,3,4,7,8,9-HpCDF	38:02	ND	ND	ND	ND	1.704e3	1.483e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	1.65e7	1.52e7	5.68e6	5.51e6	3.574e3	7.491e3	1.09	
1,2,3,4,6,7,8-HpCDD	37:37	6.78e3	5.16e3	5.28e3	2.11e3	2.730e3	1.305e3	1.31	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	1.844e3	2.750e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	1.94e7	2.11e7	5.51e6	5.87e6	9.832e3	2.627e3	0.92	
OCDD	40:12	2.81e4	3.22e4	9.46e3	1.02e4	2.752e3	1.639e3	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK125C	Injected By	CVS
Lab ID	10265141026	Instrument ID	10MSHR06 (U)
Filename	U140513B_05	GC Column ID	USD397111H
Analyzed	05/14/2014 00:32	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:35	3.11e7	3.92e7	4.66e6	6.01e6	1.797e4	9.575e3	0.79	
2,3,7,8-TCDF	21:38	2.60e4	3.50e4	1.00e4	8.19e3	1.701e3	2.532e3	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:49	2.89e7	3.46e7	4.30e6	5.25e6	7.016e3	4.786e3	0.84	
2,3,7,8-TCDD-13C	22:46	2.17e7	2.71e7	2.93e6	3.86e6	7.213e3	1.153e3	0.80	
2,3,7,8-TCDD-37Cl4	22:49	5.56e6		7.38e5		1.695e3	-----		
2,3,7,8-TCDD	22:49	ND	ND	ND	ND	1.645e3	3.922e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:35	3.10e7	2.03e7	5.35e6	3.45e6	1.709e4	1.148e3	1.53	
2,3,4,7,8-PeCDF-13C	30:57	3.03e7	1.87e7	6.81e6	4.20e6	8.047e3	7.328e3	1.62	
1,2,3,7,8-PeCDF	29:36	ND	ND	ND	ND	6.975e2	1.585e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	6.672e2	1.796e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:20	2.03e7	1.33e7	4.51e6	2.92e6	1.346e3	2.921e3	1.53	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	9.380e2	9.309e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	1.11e7	2.17e7	3.87e6	7.69e6	5.568e2	8.908e2	0.51	
1,2,3,6,7,8-HxCDF-13C	34:16	1.38e7	2.61e7	4.28e6	8.15e6	5.568e2	3.046e2	0.53	
2,3,4,6,7,8-HxCDF-13C	34:48	1.21e7	2.30e7	4.12e6	7.40e6	4.952e2	1.423e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:30	1.05e7	2.01e7	3.44e6	6.84e6	5.502e3	7.505e3	0.52	
1,2,3,4,7,8-HxCDF	34:10	ND	ND	ND	ND	1.790e3	1.078e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	2.293e3	1.203e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.868e3	1.109e3		
1,2,3,7,8,9-HxCDF	35:31	ND	ND	ND	ND	1.734e3	1.239e3		

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Client Name	PASI Wisconsin		
Client ID	MAK125C	Injected By	CVS
Lab ID	10265141026	Instrument ID	10MSHR06 (U)
Filename	U140513B_05	GC Column ID	USD397111H
Analyzed	05/14/2014 00:32	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	1.45e7	1.05e7	5.24e6	3.98e6	1.777e4	4.581e3	1.39	
1,2,3,6,7,8-HxCDD-13C	35:00	1.46e7	1.25e7	5.25e6	3.98e6	8.815e3	6.265e3	1.17	
1,2,3,7,8,9-HxCDD-13C	35:15	2.16e7	1.64e7	7.62e6	5.59e6	6.812e3	5.813e2	1.32	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.370e3	1.874e3		
1,2,3,6,7,8-HxCDD	35:01	ND	ND	ND	ND	1.370e3	1.568e3		
1,2,3,7,8,9-HxCDD	35:15	ND	ND	ND	ND	1.370e3	1.627e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	8.20e6	1.82e7	2.94e6	6.61e6	7.552e3	8.178e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	5.98e6	1.35e7	1.99e6	4.27e6	6.208e3	8.178e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	1.087e3	1.647e3		
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	1.057e3	1.551e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:35	1.03e7	9.22e6	3.51e6	3.20e6	6.124e3	3.633e3	1.11	
1,2,3,4,6,7,8-HpCDD	37:35	1.89e4	7.05e3	1.70e4	1.69e3	1.737e3	1.456e3	2.68	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	ND	ND	ND	ND	1.461e3	9.603e2		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	1.29e7	1.43e7	3.85e6	4.05e6	2.490e3	2.144e3	0.90	
OCDD	40:12	2.52e4	5.14e4	5.25e3	1.67e4	1.272e3	1.627e3	0.49	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK126C	Injected By	CVS
Lab ID	10265141027	Instrument ID	10MSHR06 (U)
Filename	U140513B_06	GC Column ID	USD397111H
Analyzed	05/14/2014 01:17	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:35	4.02e7	5.14e7	5.96e6	7.56e6	1.605e4	1.099e4	0.78	
2,3,7,8-TCDF	21:38	4.81e4	5.39e4	1.44e4	1.49e4	2.281e3	1.909e3	0.89	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:49	3.48e7	4.34e7	5.60e6	6.52e6	5.432e3	2.119e3	0.80	
2,3,7,8-TCDD-13C	22:45	2.77e7	3.42e7	3.77e6	4.72e6	5.508e3	5.369e3	0.81	
2,3,7,8-TCDD-37Cl4	22:48	7.24e6		1.05e6		7.610e2	-----		
2,3,7,8-TCDD	22:48	ND	ND	ND	ND	2.245e3	2.098e3		
Other TCDD 1	18:52	3.16e4	4.88e4					0.65	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	3.86e7	2.40e7	7.04e6	4.55e6	1.444e4	1.313e3	1.61	
2,3,4,7,8-PeCDF-13C	30:57	3.68e7	2.29e7	8.17e6	5.34e6	2.904e4	5.682e3	1.61	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.617e3	2.087e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.490e3	2.087e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	2.49e7	1.64e7	5.85e6	3.71e6	1.910e3	6.096e1	1.52	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	7.220e2	1.088e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	1.30e7	2.58e7	4.17e6	7.75e6	2.046e3	7.123e2	0.50	
1,2,3,6,7,8-HxCDF-13C	34:16	1.56e7	3.04e7	4.78e6	9.53e6	1.704e3	7.136e2	0.51	
2,3,4,6,7,8-HxCDF-13C	34:48	1.42e7	2.64e7	4.75e6	8.81e6	1.193e3	8.103e3	0.54	
1,2,3,7,8,9-HxCDF-13C	35:31	1.22e7	2.18e7	4.01e6	6.98e6	4.875e3	2.846e2	0.56	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	1.323e3	8.477e2		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.323e3	8.064e2		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.358e3	8.215e2		
1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.292e3	6.898e2		

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK126C	Injected By	CVS
Lab ID	10265141027	Instrument ID	10MSHR06 (U)
Filename	U140513B_06	GC Column ID	USD397111H
Analyzed	05/14/2014 01:17	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	1.63e7	1.27e7	5.79e6	4.48e6	1.939e4	5.143e3	1.28	
1,2,3,6,7,8-HxCDD-13C	35:01	1.79e7	1.42e7	5.85e6	4.88e6	1.939e4	5.159e3	1.26	
1,2,3,7,8,9-HxCDD-13C	35:16	2.34e7	1.89e7	7.53e6	6.02e6	1.701e3	1.931e2	1.24	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	7.468e2	1.113e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	6.937e2	1.357e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	7.912e2	1.164e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	9.19e6	2.10e7	3.11e6	7.21e6	1.038e4	8.731e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:01	6.93e6	1.50e7	2.25e6	4.69e6	1.038e4	8.731e3	0.46	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	1.166e3	6.567e2		
1,2,3,4,7,8,9-HpCDF	38:02	ND	ND	ND	ND	1.180e3	8.722e2		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	1.14e7	1.08e7	3.93e6	3.66e6	9.308e3	4.931e3	1.06	
1,2,3,4,6,7,8-HpCDD	37:36	6.02e3	1.60e4	1.98e3	5.73e3	1.298e3	1.542e3	0.38	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	1.564e3	2.273e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	1.41e7	1.56e7	4.02e6	4.58e6	4.686e3	4.098e3	0.90	
OCDD	40:11	1.39e4	2.65e4	6.98e3	9.17e3	2.419e3	2.033e3	0.52	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK127C	Injected By	CVS
Lab ID	10265141028	Instrument ID	10MSHR06 (U)
Filename	U140513B_07	GC Column ID	USD397111H
Analyzed	05/14/2014 02:01	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:35	2.44e7	3.15e7	3.69e6	4.62e6	1.321e4	5.045e3	0.77	
2,3,7,8-TCDF		21:37	1.80e4	4.96e4	2.27e3	2.14e4	1.274e3	1.980e3	0.36	I
Other TCDF	1	20:34	3.69e4	4.73e4					0.78	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:49	1.92e7	2.40e7	3.19e6	3.75e6	7.893e3	3.265e3	0.80	
2,3,7,8-TCDD-13C		22:47	1.67e7	2.06e7	2.40e6	2.84e6	4.653e3	2.290e3	0.81	
2,3,7,8-TCDD-37Cl4		22:49	4.22e6		6.00e5		1.238e3	-----		
2,3,7,8-TCDD		22:50	ND	ND	ND	ND	1.395e3	1.446e3		
Other TCDD	1	18:57	3.37e4	3.83e4					0.88	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:36	2.39e7	1.48e7	4.57e6	2.72e6	1.139e4	2.234e2	1.61	
2,3,4,7,8-PeCDF-13C	30:58	2.12e7	1.35e7	4.65e6	2.87e6	6.560e3	7.860e2	1.57	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.141e3	1.494e3		
2,3,4,7,8-PeCDF	30:59	ND	ND	ND	ND	1.045e3	1.324e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	1.49e7	9.53e6	3.32e6	2.41e6	5.019e3	1.879e3	1.56	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	4.109e2	7.787e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	8.66e6	1.60e7	2.90e6	5.08e6	4.169e2	6.164e1	0.54	
1,2,3,6,7,8-HxCDF-13C	34:16	9.97e6	1.94e7	3.12e6	6.31e6	6.875e2	8.896e2	0.51	
2,3,4,6,7,8-HxCDF-13C	34:48	8.64e6	1.64e7	2.98e6	5.40e6	8.107e2	3.443e2	0.53	
1,2,3,7,8,9-HxCDF-13C	35:31	7.47e6	1.43e7	2.56e6	4.84e6	4.454e3	2.179e3	0.52	
1,2,3,4,7,8-HxCDF	34:11	ND	ND	ND	ND	1.111e3	5.559e2		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.111e3	5.679e2		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.490e3	5.679e2		

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Client Name	PASI Wisconsin		
Client ID	MAK127C	Injected By	CVS
Lab ID	10265141028	Instrument ID	10MSHR06 (U)
Filename	U140513B_07	GC Column ID	USD397111H
Analyzed	05/14/2014 02:01	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.267e3	5.985e2		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	9.98e6	7.94e6	3.59e6	2.91e6	3.284e3	1.489e3	1.26	
1,2,3,6,7,8-HxCDD-13C	35:01	1.09e7	8.52e6	3.74e6	2.91e6	3.284e3	1.435e3	1.28	
1,2,3,7,8,9-HxCDD-13C	35:16	1.45e7	1.16e7	4.97e6	3.91e6	5.898e3	1.103e2	1.25	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	8.366e2	1.311e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	8.692e2	1.497e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	8.426e2	1.432e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	5.57e6	1.23e7	1.91e6	4.41e6	3.873e3	1.209e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	4.84e6	1.05e7	1.52e6	3.46e6	1.030e4	4.197e2	0.46	
1,2,3,4,6,7,8-HpCDF	36:46	8.17e3	5.19e3	4.78e3	3.69e3	1.284e3	8.207e2	1.57	I
1,2,3,4,7,8,9-HpCDF	38:02	4.24e3	5.01e3	6.64e3	2.55e3	1.161e3	8.207e2	0.85	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	7.49e6	6.74e6	2.83e6	2.54e6	3.078e3	3.690e2	1.11	
1,2,3,4,6,7,8-HpCDD	37:36	4.17e3	9.26e3	2.16e3	4.22e3	8.388e2	1.224e3	0.45	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	1.159e3	7.639e2		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	9.04e6	1.00e7	2.59e6	2.81e6	6.989e3	4.809e3	0.90	
OCDD	40:11	1.13e4	9.27e3	5.21e3	6.06e3	2.111e3	2.188e3	1.22	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK128C	Injected By	CVS
Lab ID	10265141029	Instrument ID	10MSHR06 (U)
Filename	U140513B_08	GC Column ID	USD397111H
Analyzed	05/14/2014 02:46	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:35	3.32e7	4.35e7	5.16e6	6.67e6	1.603e4	2.137e4	0.76	
2,3,7,8-TCDF	21:37	4.70e4	5.55e4	8.49e3	1.16e4	1.532e3	1.660e3	0.85	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:49	3.06e7	3.76e7	4.79e6	6.10e6	8.692e3	1.867e3	0.81	
2,3,7,8-TCDD-13C	22:46	2.41e7	2.97e7	3.55e6	4.46e6	5.179e3	3.871e3	0.81	
2,3,7,8-TCDD-37Cl4	22:48	6.20e6		9.64e5		1.313e3	-----		
2,3,7,8-TCDD	22:49	ND	ND	ND	ND	1.395e3	1.622e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:35	3.33e7	2.12e7	6.07e6	4.01e6	1.564e4	8.494e2	1.57	
2,3,4,7,8-PeCDF-13C	30:57	3.04e7	1.97e7	6.61e6	4.26e6	1.951e4	5.034e3	1.54	
1,2,3,7,8-PeCDF	29:36	ND	ND	ND	ND	1.897e3	2.059e3		
2,3,4,7,8-PeCDF	30:58	9.68e3	1.34e4	4.30e3	9.42e3	1.615e3	1.791e3	0.72	I

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	2.11e7	1.38e7	5.12e6	3.30e6	6.098e3	1.886e3	1.53	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	7.937e2	7.278e2		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	1.19e7	2.19e7	3.99e6	7.59e6	5.849e2	1.230e3	0.55	
1,2,3,6,7,8-HxCDF-13C	34:16	1.37e7	2.62e7	4.63e6	8.47e6	5.849e2	1.581e2	0.53	
2,3,4,6,7,8-HxCDF-13C	34:48	1.21e7	2.36e7	4.42e6	8.15e6	2.079e3	5.811e2	0.51	
1,2,3,7,8,9-HxCDF-13C	35:30	9.73e6	1.93e7	3.03e6	6.20e6	7.161e3	8.498e3	0.50	
1,2,3,4,7,8-HxCDF	34:10	ND	ND	ND	ND	9.865e2	1.311e3		
1,2,3,6,7,8-HxCDF	34:17	ND	ND	ND	ND	1.195e3	1.277e3		
2,3,4,6,7,8-HxCDF	34:49	ND	ND	ND	ND	1.166e3	1.404e3		
1,2,3,7,8,9-HxCDF	35:31	ND	ND	ND	ND	9.361e2	8.517e2		

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Client Name	PASI Wisconsin		
Client ID	MAK128C	Injected By	CVS
Lab ID	10265141029	Instrument ID	10MSHR06 (U)
Filename	U140513B_08	GC Column ID	USD397111H
Analyzed	05/14/2014 02:46	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	1.43e7	1.14e7	5.43e6	4.46e6	8.673e2	1.541e2	1.26	
1,2,3,6,7,8-HxCDD-13C	35:01	1.56e7	1.23e7	5.43e6	4.46e6	4.730e3	7.226e2	1.27	
1,2,3,7,8,9-HxCDD-13C	35:15	2.05e7	1.65e7	7.07e6	5.64e6	8.673e2	1.541e2	1.24	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	1.513e3	1.183e3		
1,2,3,6,7,8-HxCDD	35:02	ND	ND	ND	ND	1.183e3	1.436e3		
1,2,3,7,8,9-HxCDD	35:15	ND	ND	ND	ND	1.186e3	1.275e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	7.82e6	1.83e7	3.06e6	7.15e6	4.545e3	7.041e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:00	5.43e6	1.30e7	2.00e6	4.40e6	7.516e3	7.751e3	0.42	
1,2,3,4,6,7,8-HpCDF	36:46	ND	ND	ND	ND	8.040e2	1.122e3		
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	1.088e3	1.091e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	1.02e7	9.16e6	3.56e6	3.15e6	7.396e3	4.051e3	1.12	
1,2,3,4,6,7,8-HpCDD	37:36	1.06e4	1.08e4	4.36e3	5.65e3	1.289e3	1.079e3	0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	ND	ND	ND	ND	1.794e3	2.332e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	1.21e7	1.32e7	3.57e6	3.89e6	6.285e3	1.655e3	0.92	
OCDD	40:11	3.02e4	3.02e4	1.12e4	1.30e4	2.194e3	1.983e3	1.00	

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Appendix E

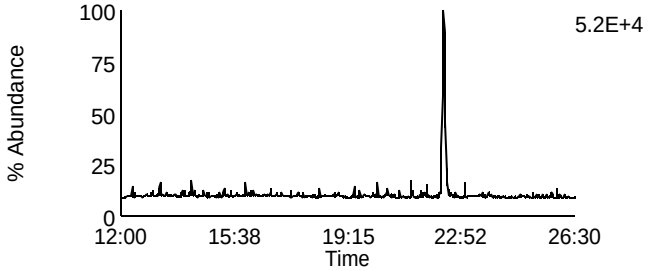
Calibration Raw Data

Homologue Group: Tetras

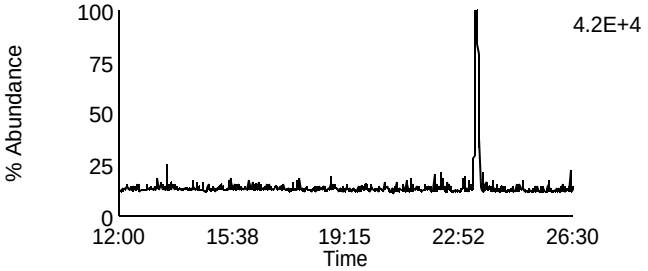
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

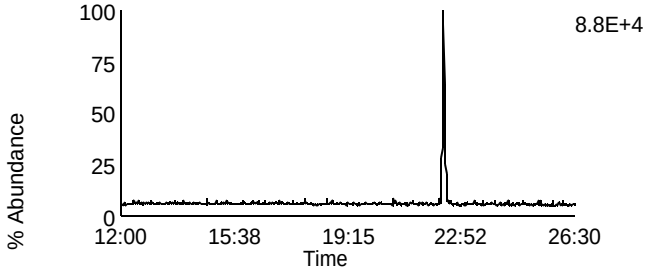
Data File: F131125C_03 G1 C1 - 303.9016
CAL CS1-7604-273 - BAL



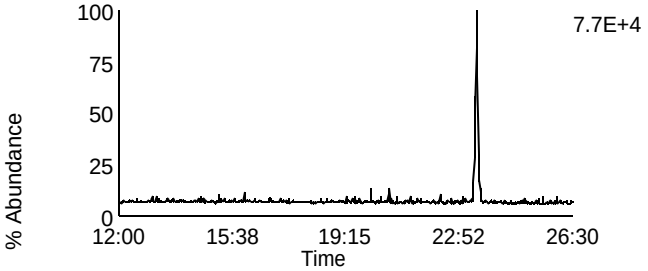
Data File: F131125C_03 G1 C7 - 319.8965
CAL CS1-7604-273 - BAL



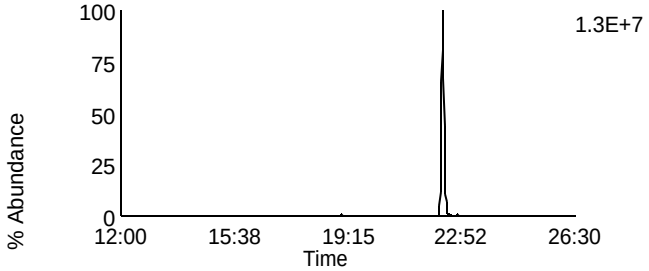
Data File: F131125C_03 G1 C2 - 305.8987
CAL CS1-7604-273 - BAL



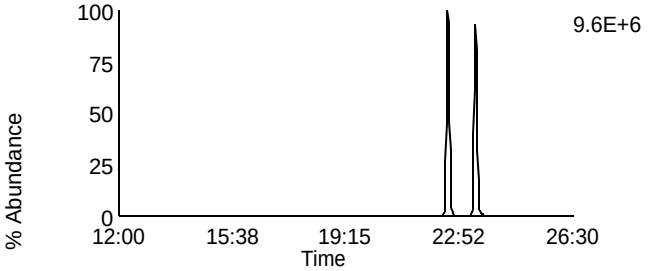
Data File: F131125C_03 G1 C8 - 321.8936
CAL CS1-7604-273 - BAL



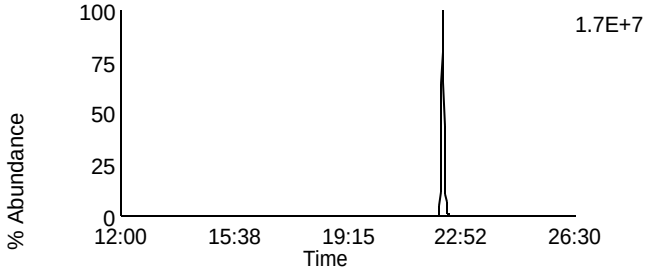
Data File: F131125C_03 G1 C3 - 315.9418
CAL CS1-7604-273 - BAL



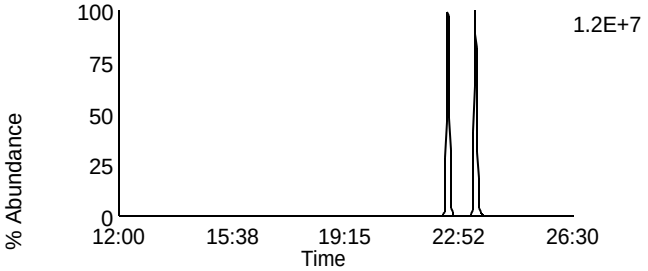
Data File: F131125C_03 G1 C10 - 331.9367
CAL CS1-7604-273 - BAL



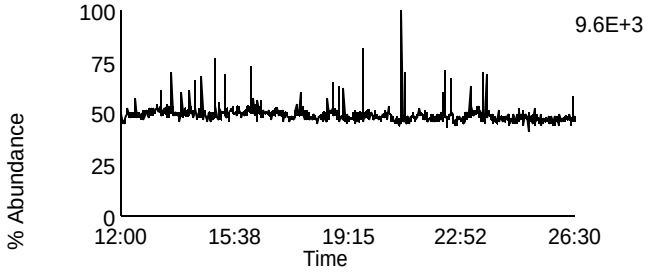
Data File: F131125C_03 G1 C4 - 317.9389
CAL CS1-7604-273 - BAL



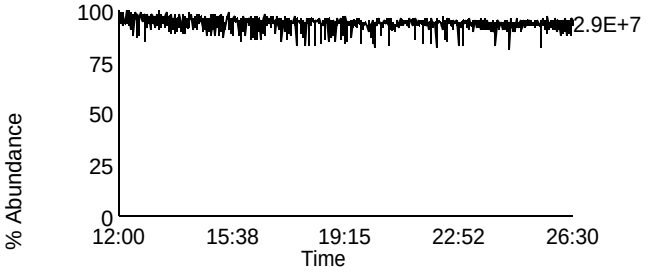
Data File: F131125C_03 G1 C11 - 333.9338
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C14 - 375.8364
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL

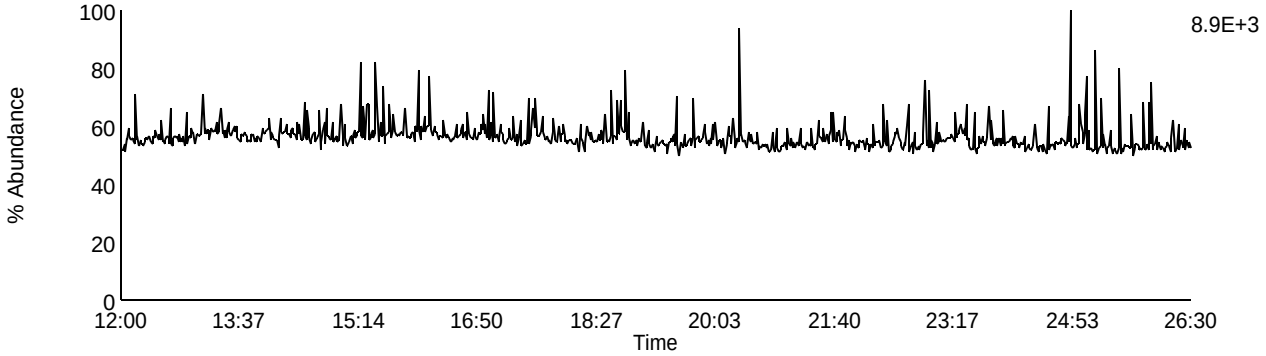


Homologue Group: Penta & Cleanup

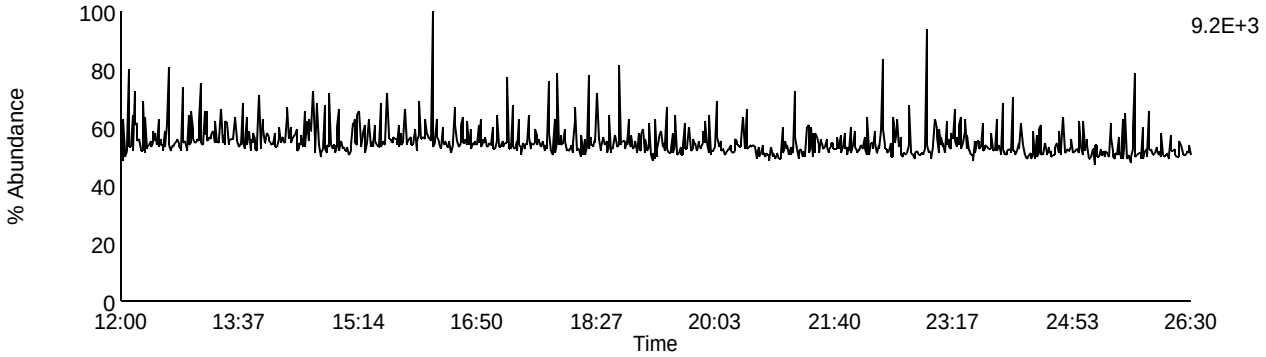
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_03 G1 C12 - 339.8597
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C13 - 341.8567
CAL CS1-7604-273 - BAL



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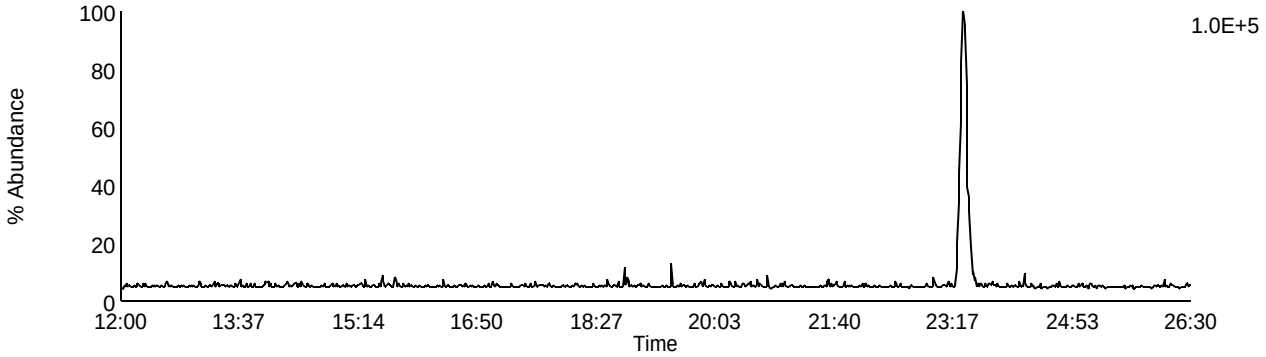
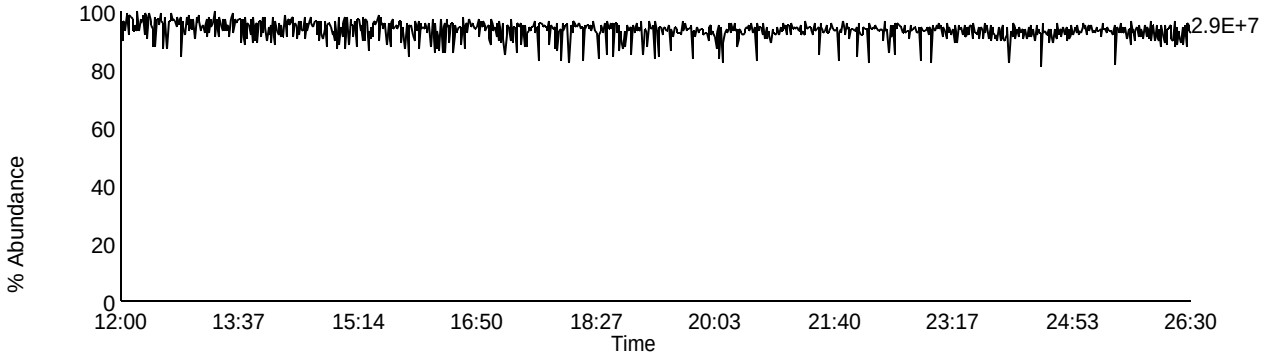
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL

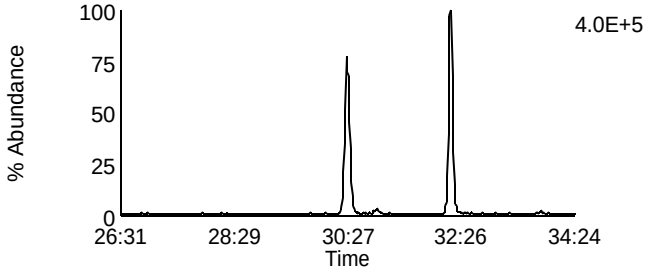


Homologue Group: Pentas

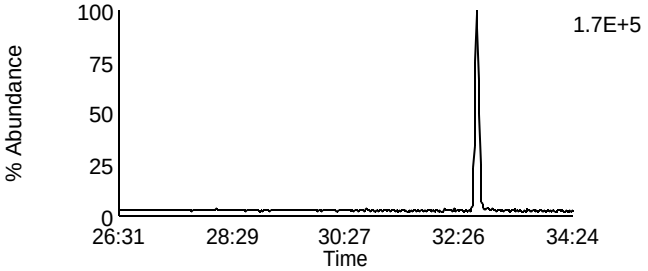
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

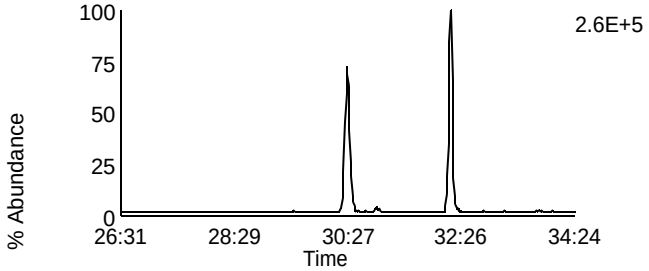
Data File: F131125C_03 G2 C1 - 339.8597
CAL CS1-7604-273 - BAL



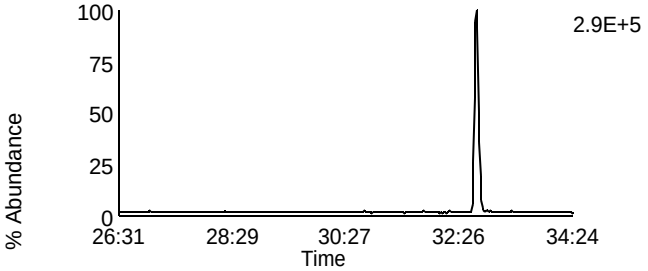
Data File: F131125C_03 G2 C4 - 353.8576
CAL CS1-7604-273 - BAL



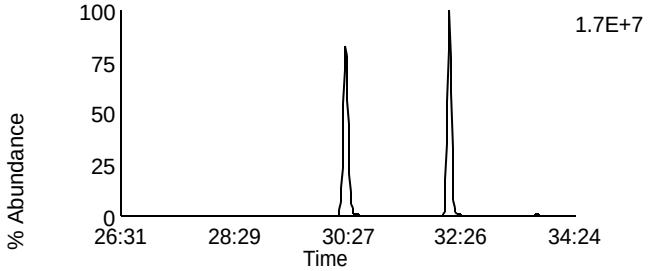
Data File: F131125C_03 G2 C2 - 341.8567
CAL CS1-7604-273 - BAL



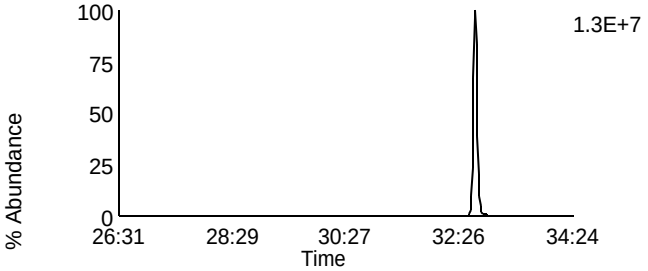
Data File: F131125C_03 G2 C8 - 355.8546
CAL CS1-7604-273 - BAL



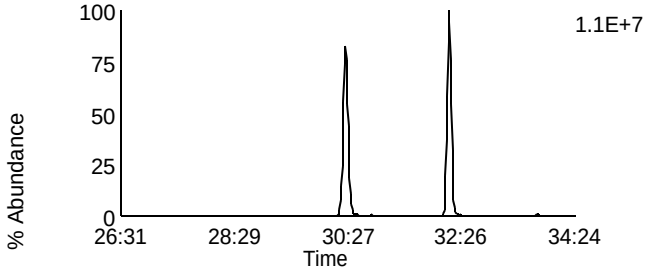
Data File: F131125C_03 G2 C3 - 351.8999
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G2 C10 - 367.8948
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G2 C5 - 353.8969
CAL CS1-7604-273 - BAL



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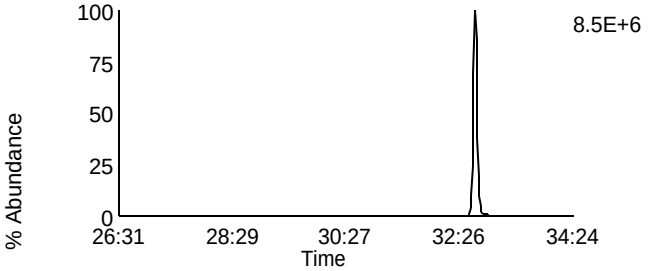
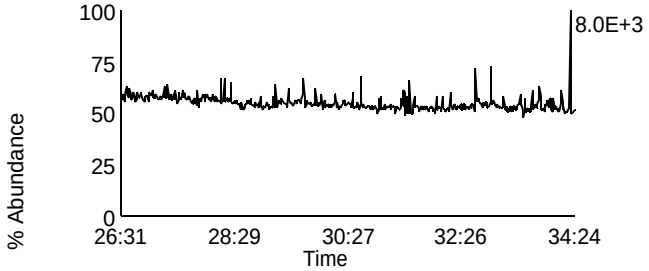
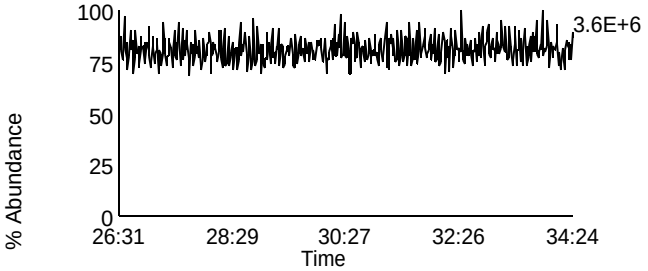
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G2 C12 - 409.7974
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G2 C6 - 354.9792
CAL CS1-7604-273 - BAL

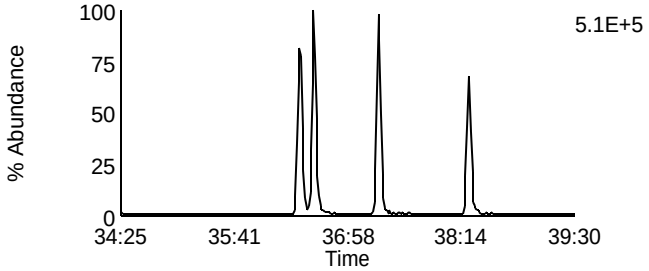


Homologue Group: Hexas

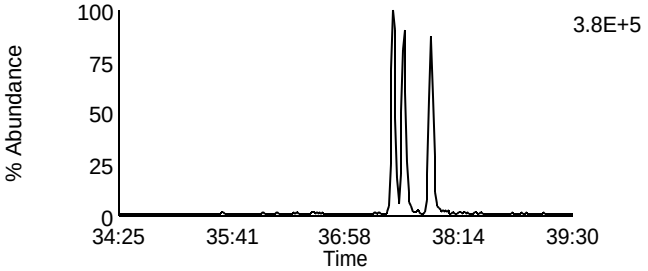
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_03 G3 C1 - 373.8207
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C7 - 389.8156
CAL CS1-7604-273 - BAL



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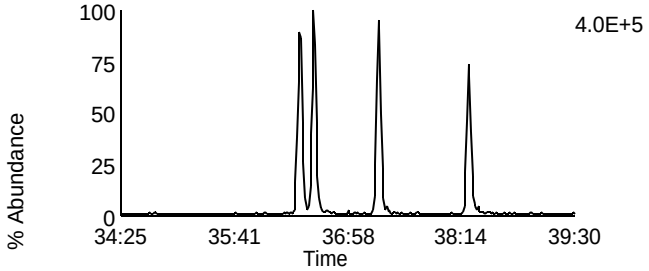
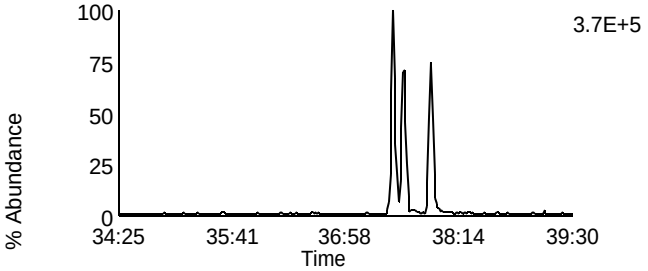
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C8 - 391.8127
CAL CS1-7604-273 - BAL



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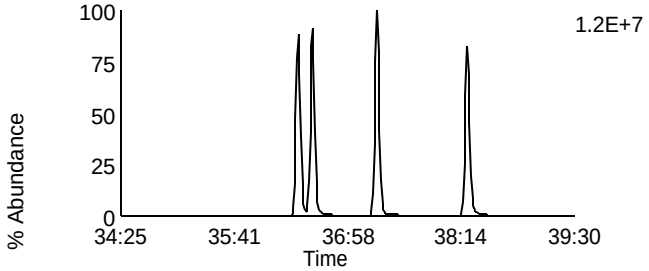
CAL CS1-7604-273 - BAL



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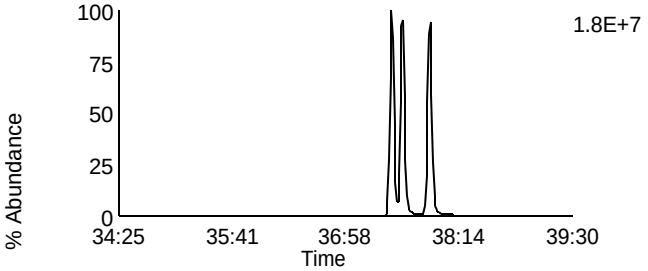
CAL CS1-7604-273 - BAL



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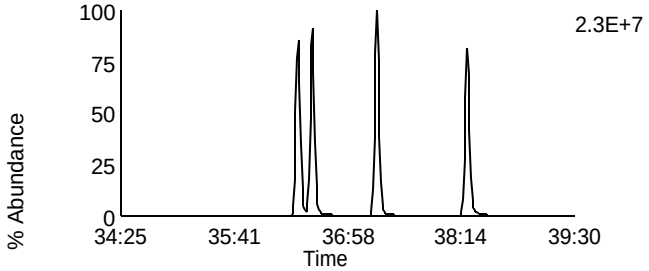
CAL CS1-7604-273 - BAL



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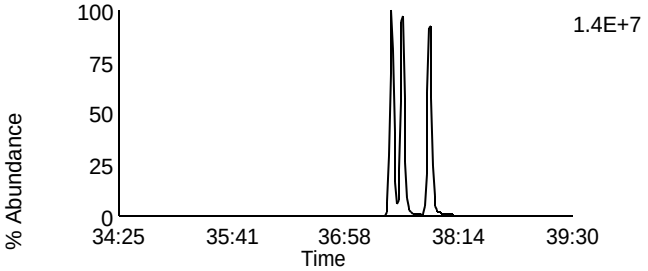
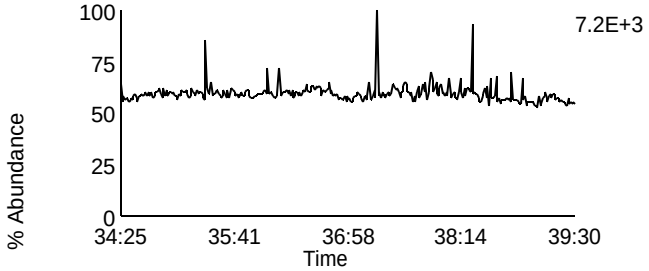
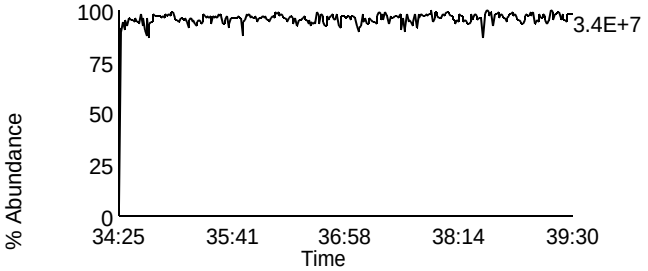
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C11 - 445.7555
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C3 - 380.976
CAL CS1-7604-273 - BAL

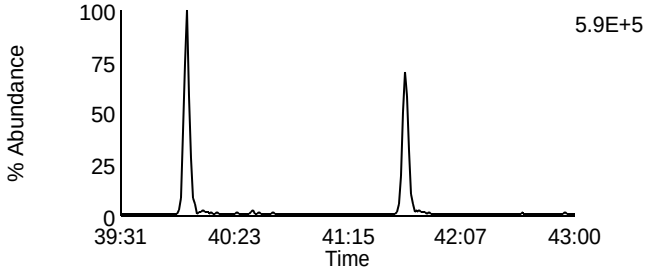


Homologue Group: Heptas

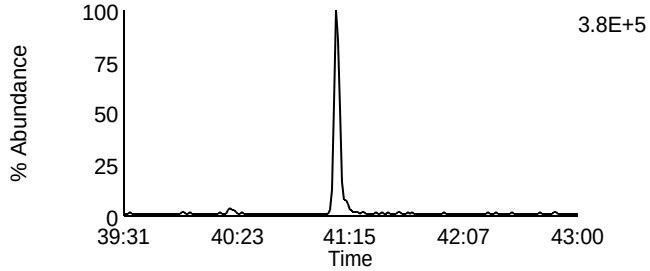
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

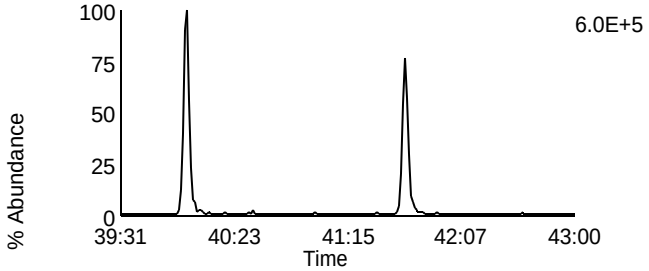
Data File: F131125C_03 G4 C3 - 407.7818
CAL CS1-7604-273 - BAL



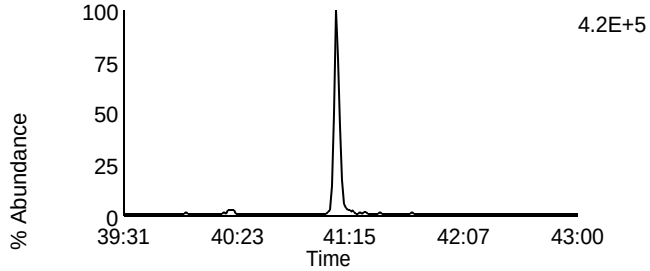
Data File: F131125C_03 G4 C8 - 423.7767
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G4 C4 - 409.7788
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G4 C9 - 425.7737
CAL CS1-7604-273 - BAL



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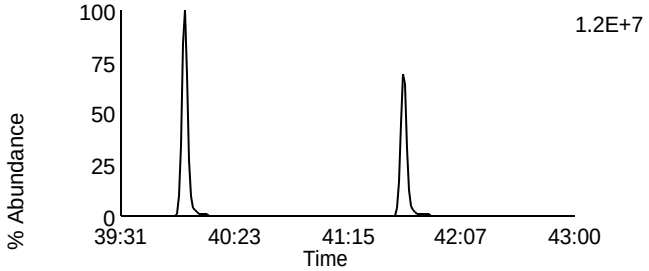
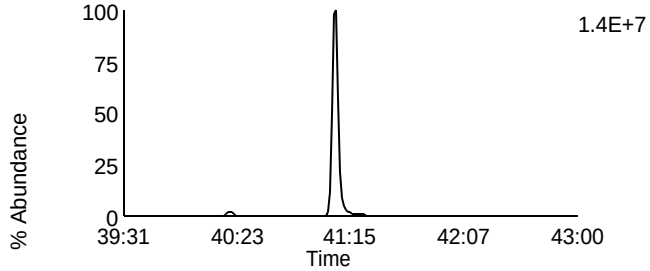
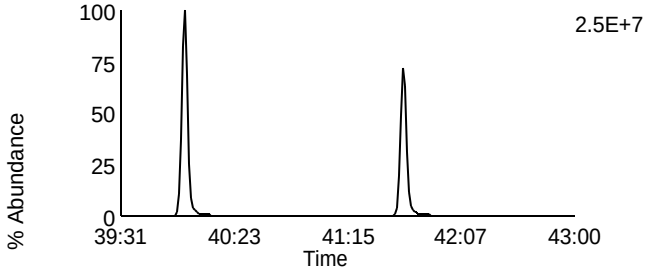
CAL CS1-7604-273 - BAL



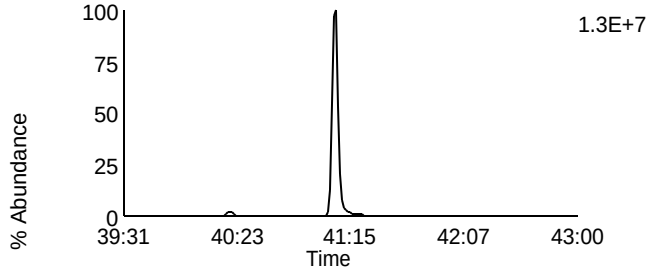
Data File: F131125C_03 G4 C11 - 435.8169
CAL CS1-7604-273 - BAL



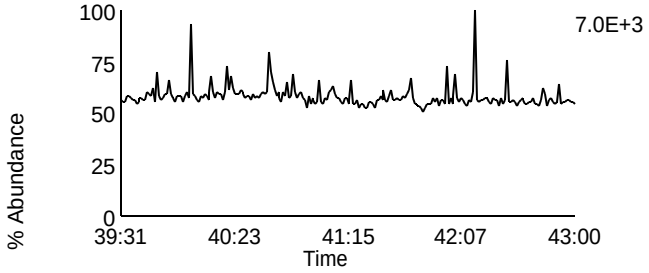
Data File: F131125C_03 G4 C7 - 419.822
CAL CS1-7604-273 - BAL



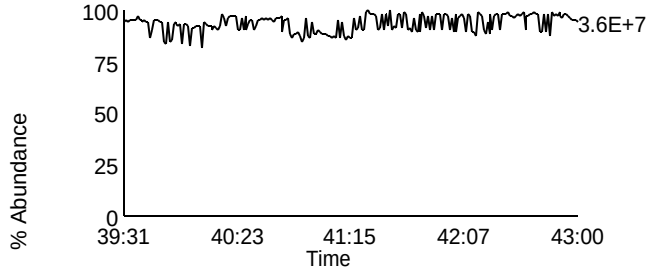
Data File: F131125C_03 G4 C12 - 437.814
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G4 C13 - 479.7165
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G4 C1 - 380.976
CAL CS1-7604-273 - BAL

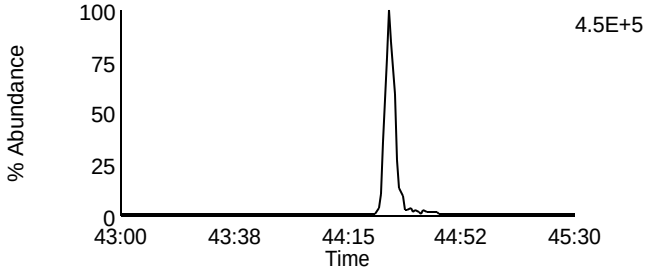


Homologue Group: Octas

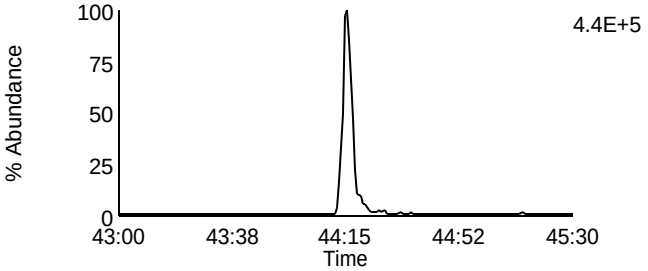
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_03 G5 C4 - 441.7428
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G5 C8 - 457.7377
CAL CS1-7604-273 - BAL



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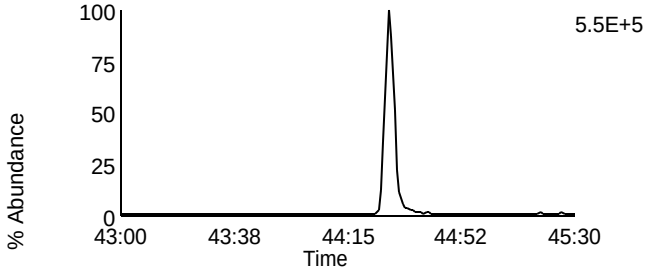
CAL CS1-7604-273 - BAL



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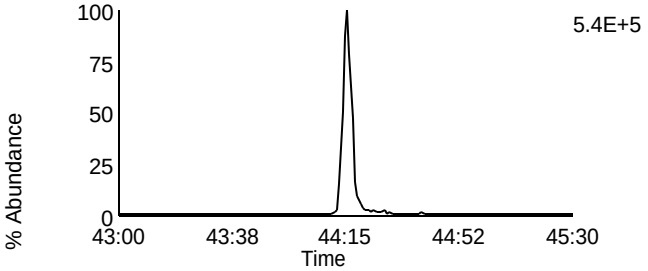
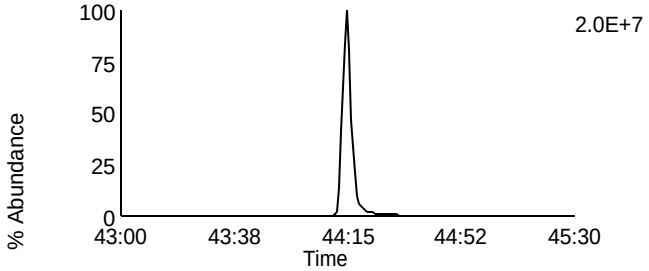
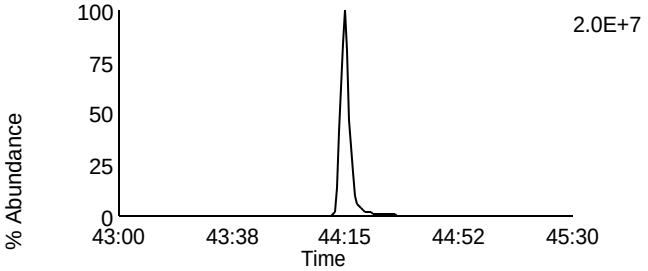
CAL CS1-7604-273 - BAL



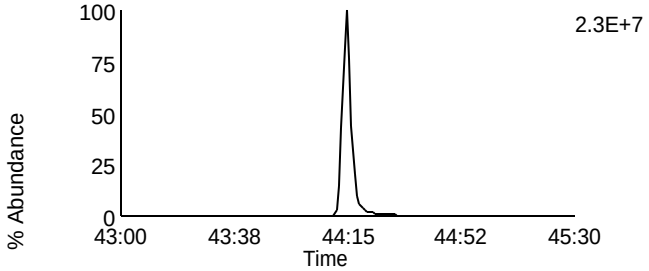
Data File: F131125C_03 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



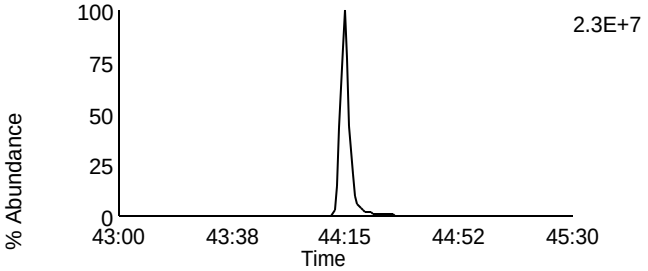
Data File: F131125C_03 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



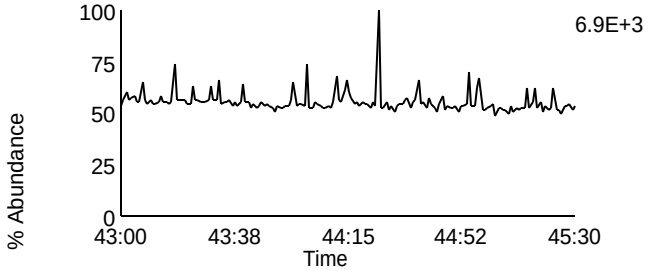
Data File: F131125C_03 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



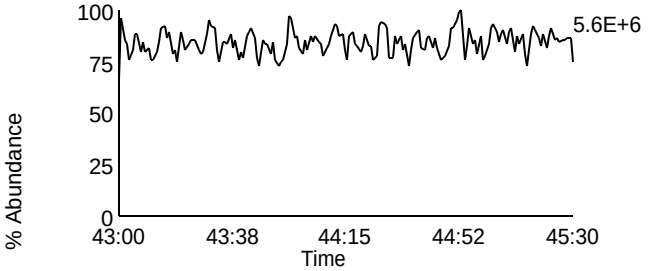
Data File: F131125C_03 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G5 C13 - 513.6775
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G5 C2 - 430.9728
CAL CS1-7604-273 - BAL

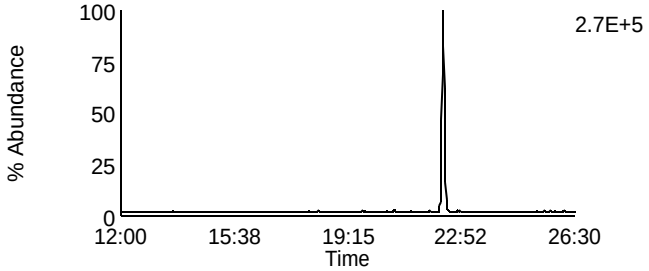


Homologue Group: Tetras

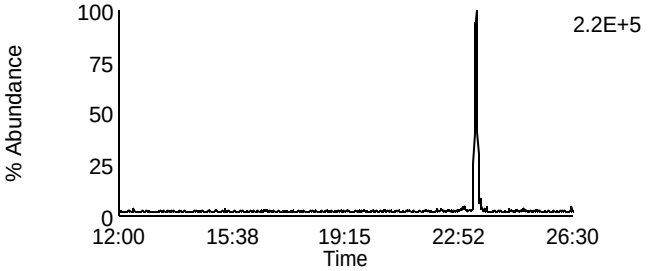
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_02 G1 C1 - 303.9016
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C7 - 319.8965
CAL CS2-7604-276 - BAL



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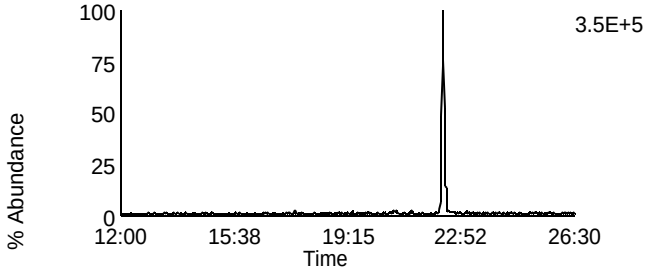
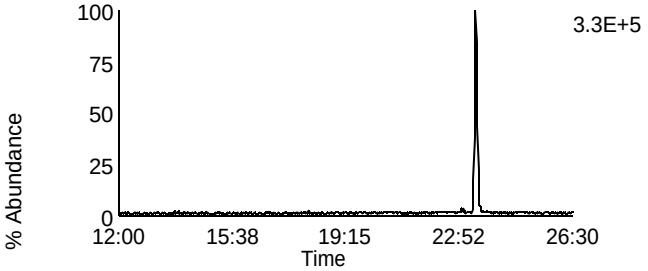
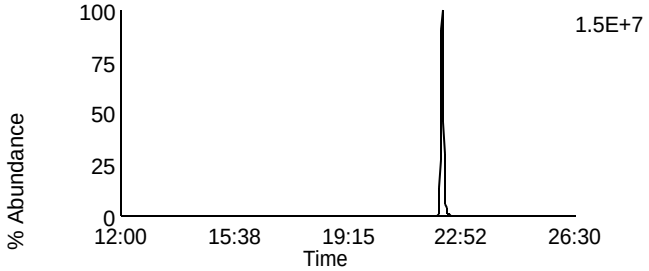
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C8 - 321.8936
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C3 - 315.9418
CAL CS2-7604-276 - BAL



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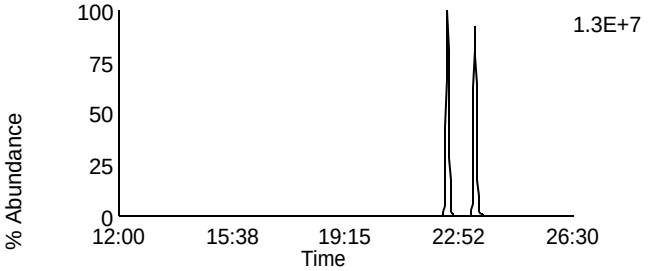
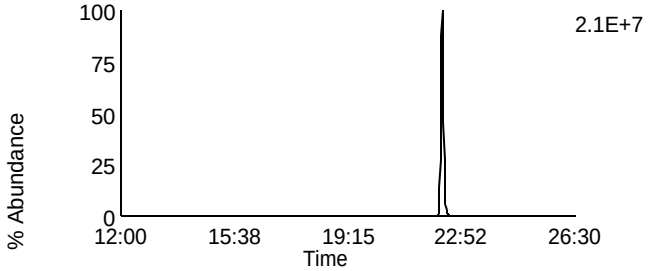
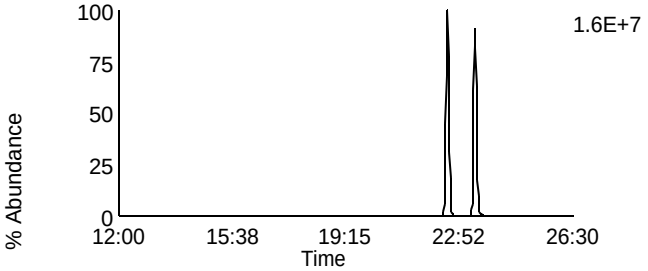
CAL CS2-7604-276 - BAL



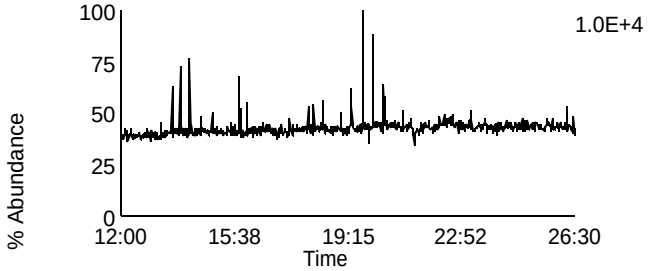
Data File: F131125C_02 G1 C4 - 317.9389
CAL CS2-7604-276 - BAL



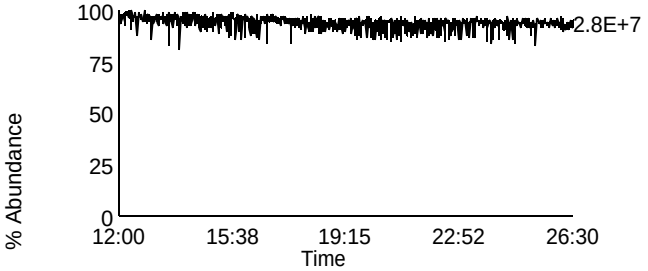
Data File: F131125C_02 G1 C11 - 333.9338
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C14 - 375.8364
CAL CS2-7604-276 - BAL



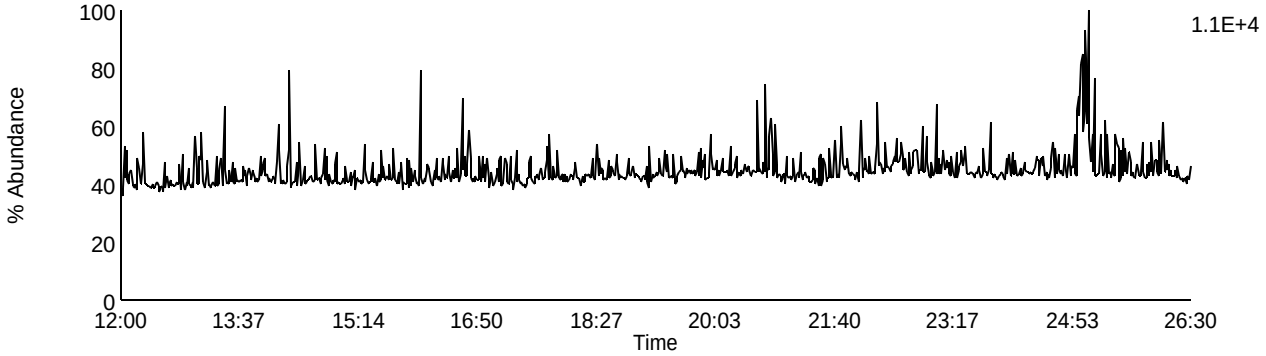
Data File: F131125C_02 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL



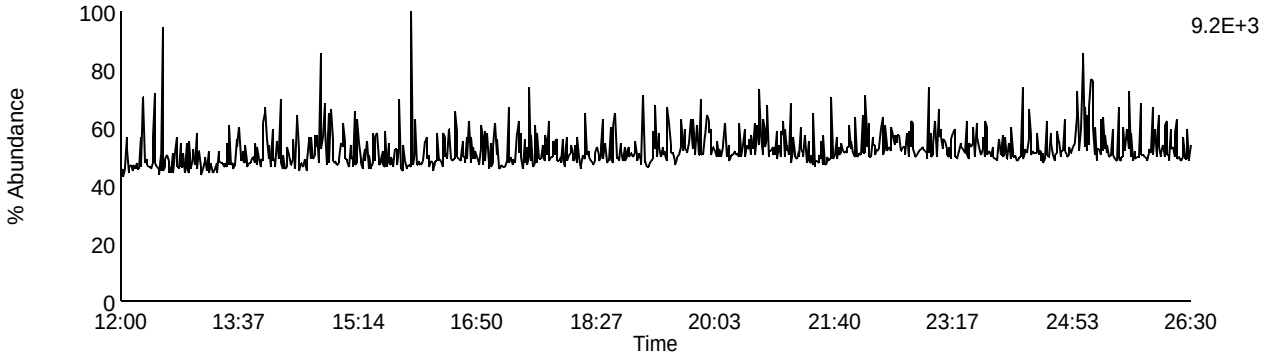
Homologue Group: Penta & Cleanup

Data File Name: F131125C_02	Lab Sample ID: CS2-7604-276
Date Acquired: 11/25/2013	Client Sample ID:
Sample Description: CAL CS2-7604-276 - BAL	Instrument: 10MSHR05 (F)

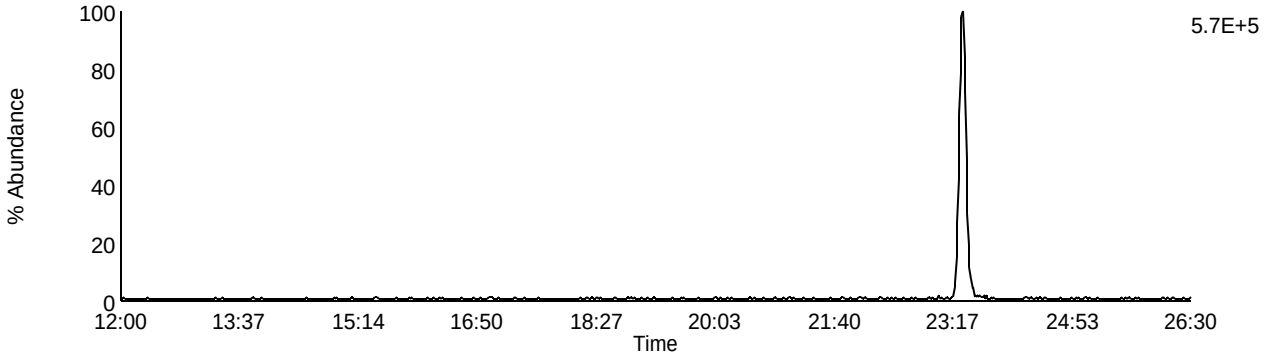
Data File: F131125C_02 G1 C12 - 339.8597
CAL CS2-7604-276 - BAL



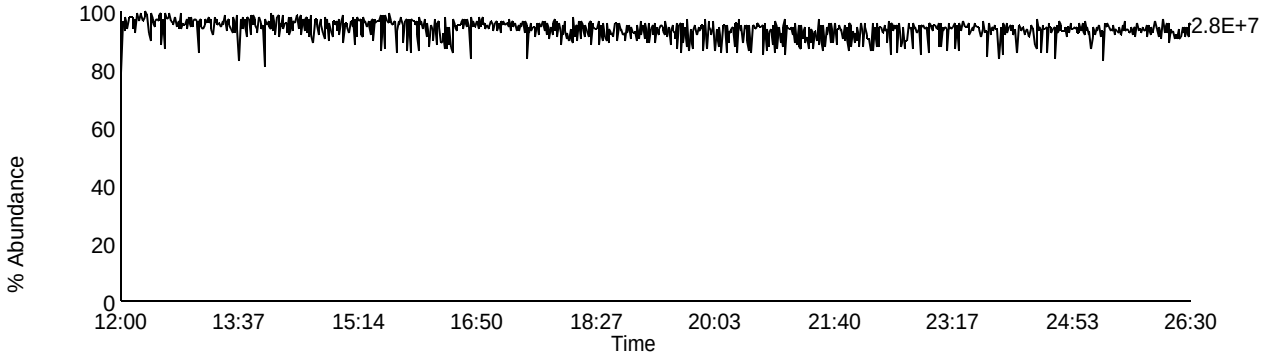
Data File: F131125C_02 G1 C13 - 341.8567
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C9 - 327.8847
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL

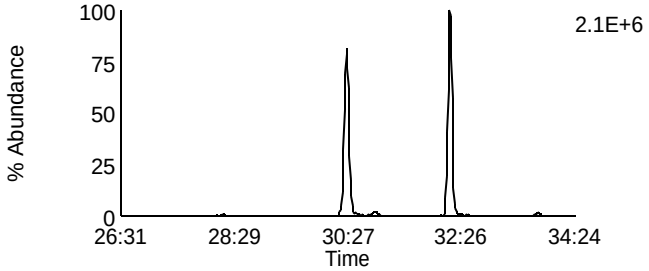


Homologue Group: Pentas

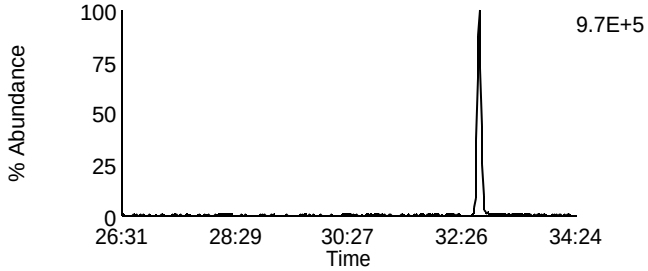
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

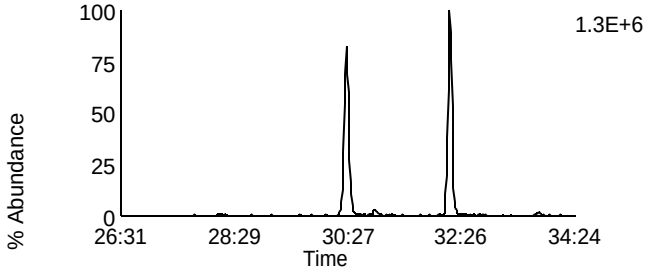
Data File: F131125C_02 G2 C1 - 339.8597
CAL CS2-7604-276 - BAL



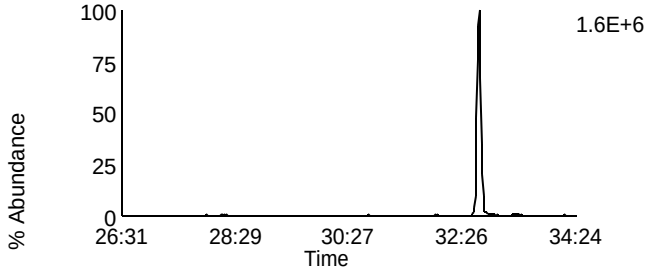
Data File: F131125C_02 G2 C4 - 353.8576
CAL CS2-7604-276 - BAL



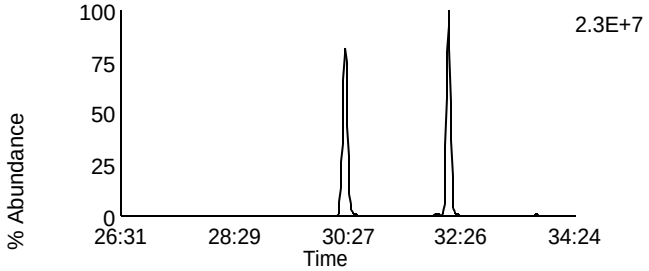
Data File: F131125C_02 G2 C2 - 341.8567
CAL CS2-7604-276 - BAL



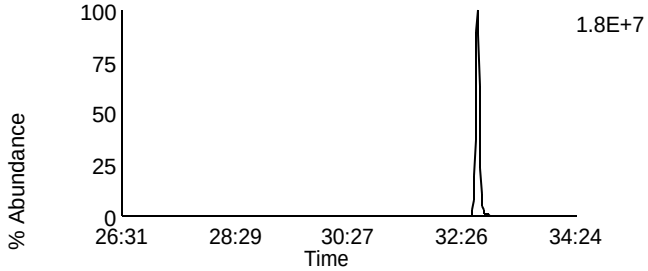
Data File: F131125C_02 G2 C8 - 355.8546
CAL CS2-7604-276 - BAL



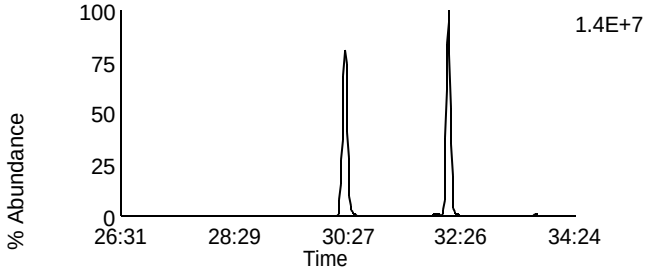
Data File: F131125C_02 G2 C3 - 351.8999
CAL CS2-7604-276 - BAL



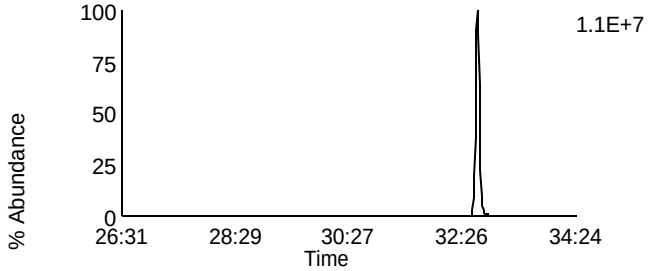
Data File: F131125C_02 G2 C10 - 367.8948
CAL CS2-7604-276 - BAL



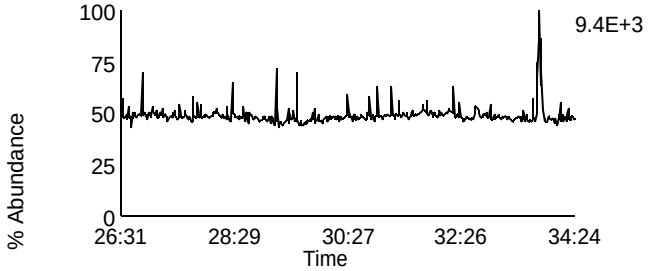
Data File: F131125C_02 G2 C5 - 353.8969
CAL CS2-7604-276 - BAL



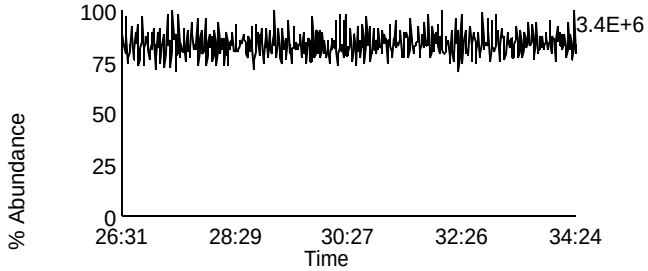
Data File: F131125C_02 G2 C11 - 369.8918
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G2 C12 - 409.7974
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G2 C6 - 354.9792
CAL CS2-7604-276 - BAL

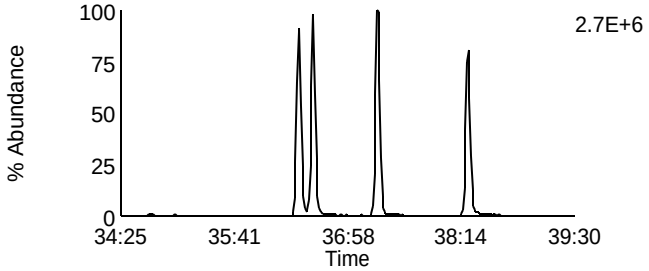


Homologue Group: Hexas

Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_02 G3 C1 - 373.8207
CAL CS2-7604-276 - BAL



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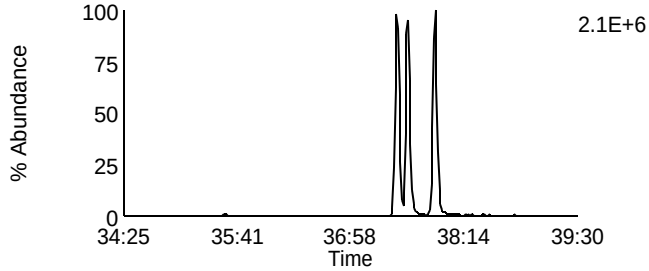
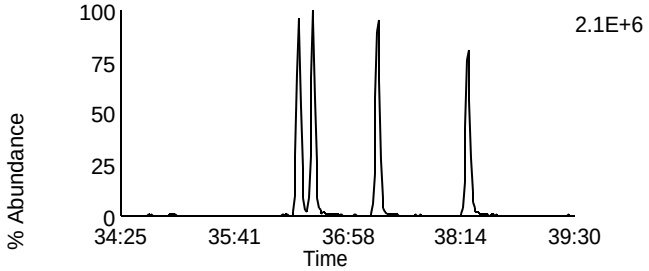
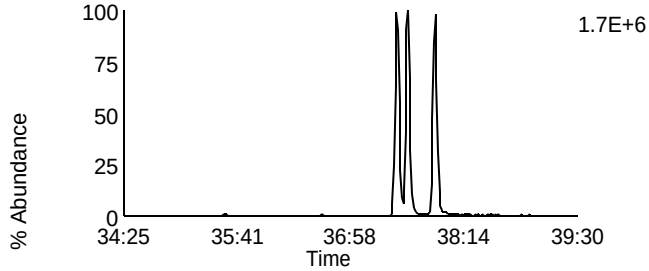
CAL CS2-7604-276 - BAL



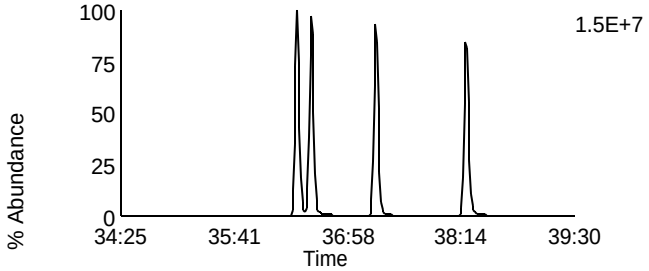
Data File: F131125C_02 G3 C2 - 375.8178
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C8 - 391.8127
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C5 - 383.8639
CAL CS2-7604-276 - BAL



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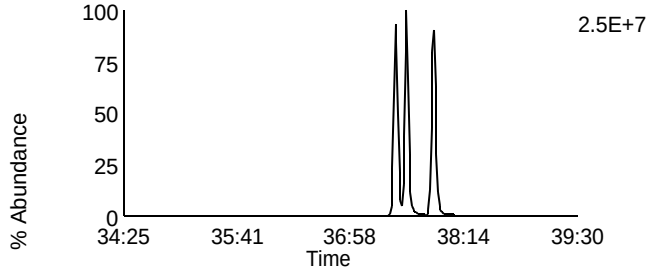
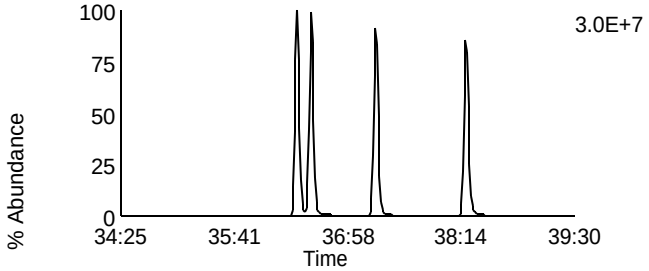
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C6 - 385.861
CAL CS2-7604-276 - BAL



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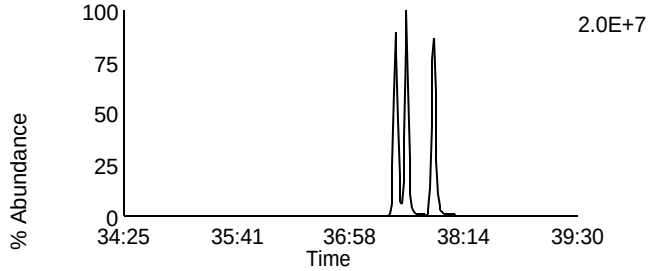
CAL CS2-7604-276 - BAL



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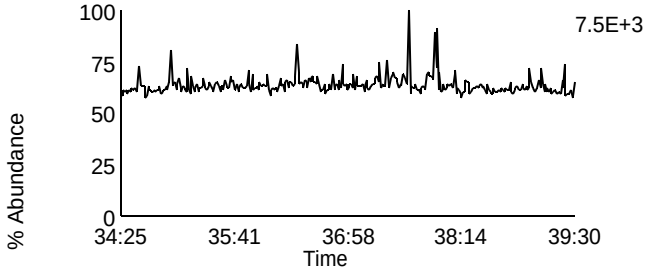
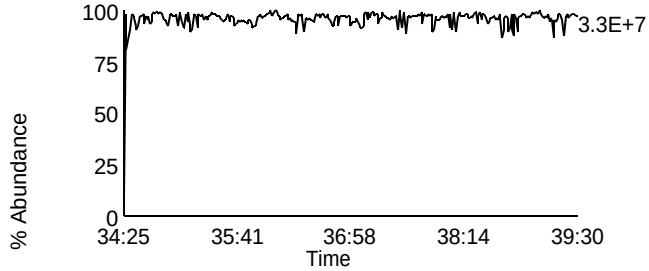
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C3 - 380.976
CAL CS2-7604-276 - BAL

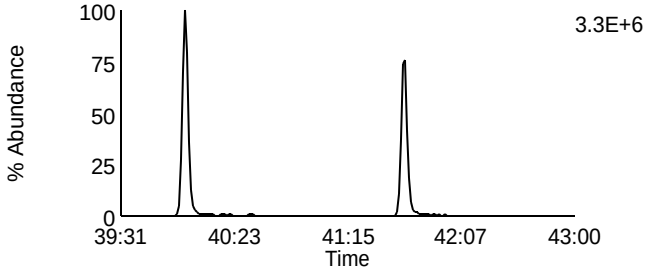


Homologue Group: Heptas

Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_02 G4 C3 - 407.7818
CAL CS2-7604-276 - BAL



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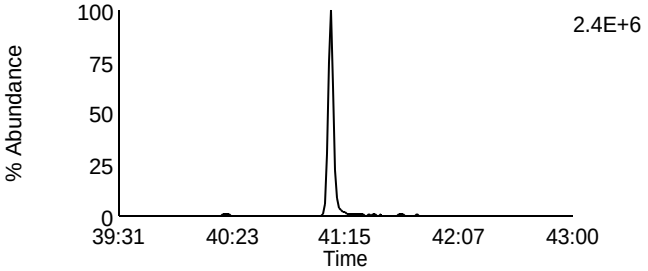
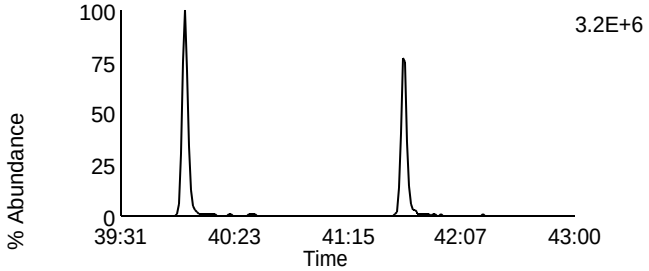
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C4 - 409.7788
CAL CS2-7604-276 - BAL



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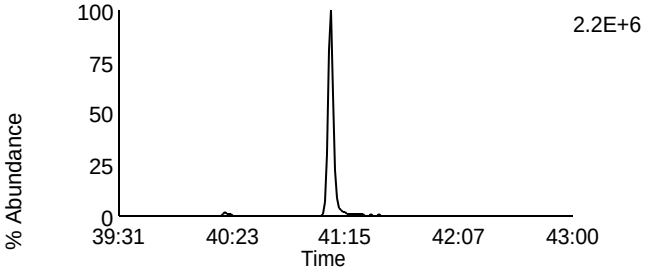
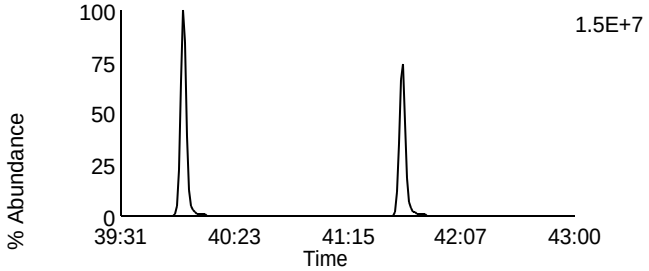
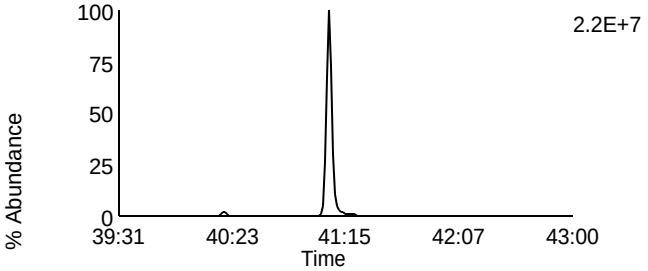
CAL CS2-7604-276 - BAL



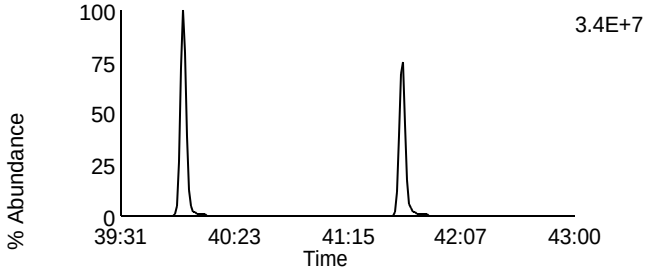
Data File: F131125C_02 G4 C6 - 417.825
CAL CS2-7604-276 - BAL



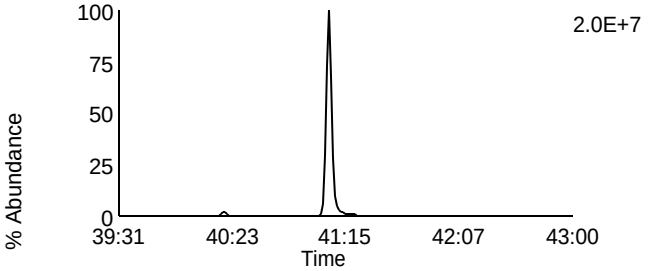
Data File: F131125C_02 G4 C11 - 435.8169
CAL CS2-7604-276 - BAL



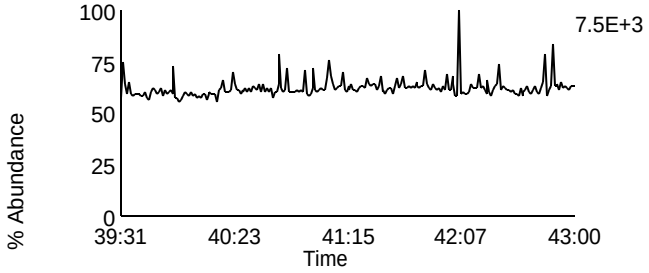
Data File: F131125C_02 G4 C7 - 419.822
CAL CS2-7604-276 - BAL



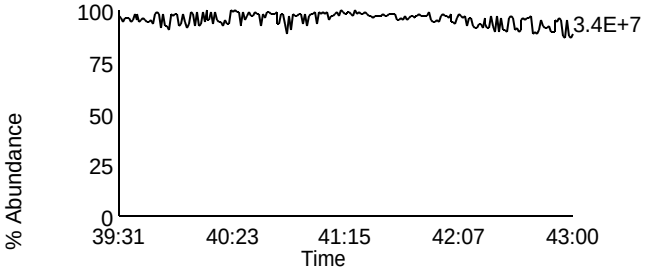
Data File: F131125C_02 G4 C12 - 437.814
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C13 - 479.7165
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C1 - 380.976
CAL CS2-7604-276 - BAL

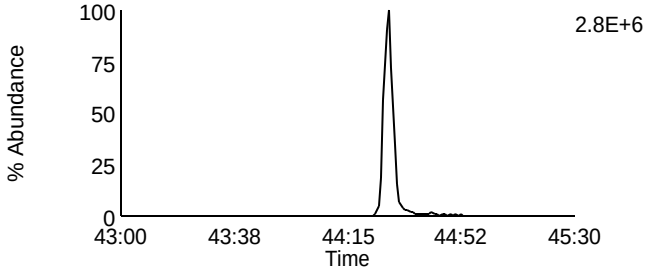


Homologue Group: Octas

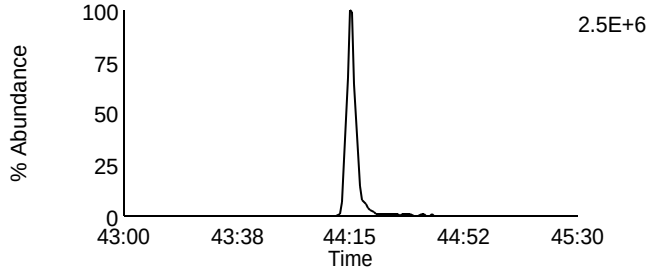
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

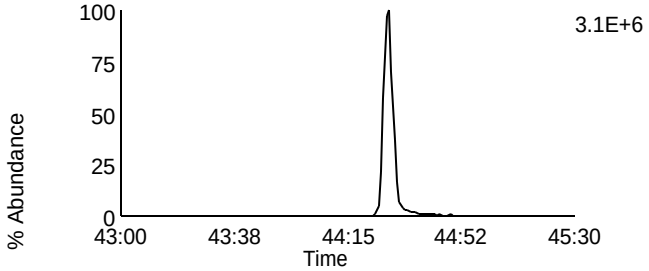
Data File: F131125C_02 G5 C4 - 441.7428
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G5 C8 - 457.7377
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G5 C5 - 443.7398
CAL CS2-7604-276 - BAL



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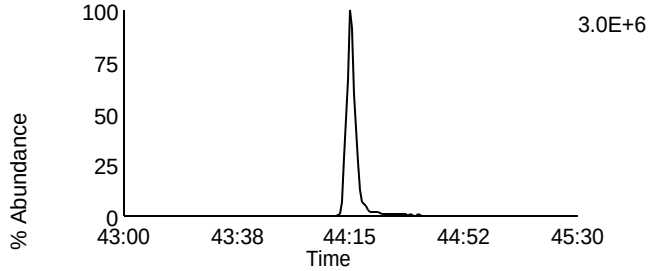
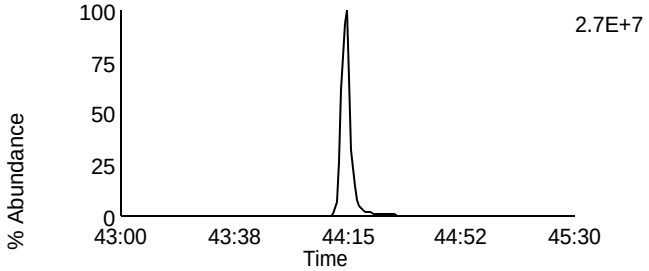
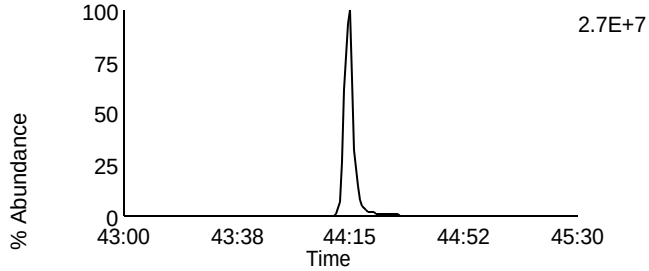
CAL CS2-7604-276 - BAL



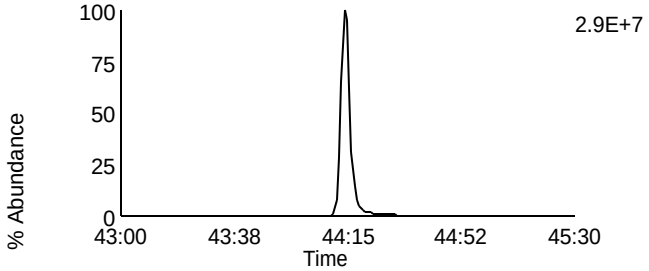
Data File: F131125C_02 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



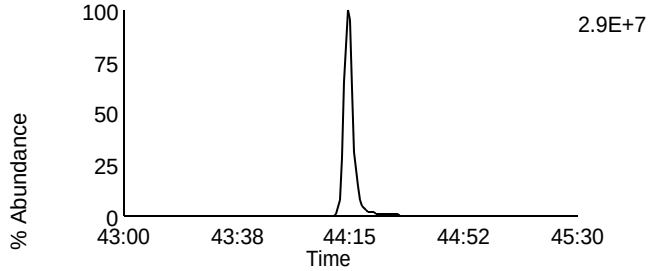
Data File: F131125C_02 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



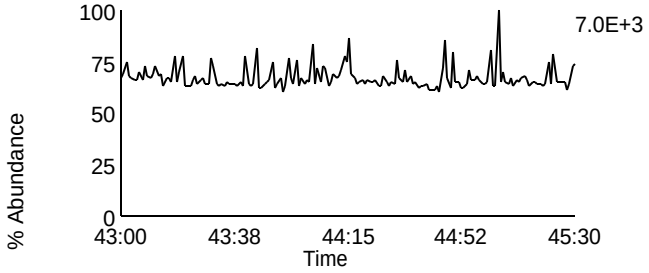
Data File: F131125C_02 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



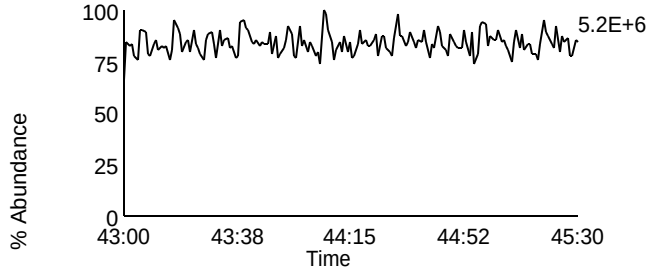
Data File: F131125C_02 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G5 C13 - 513.6775
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G5 C2 - 430.9728
CAL CS2-7604-276 - BAL

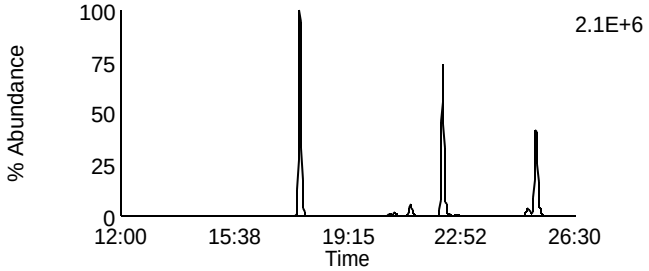


Homologue Group: Tetras

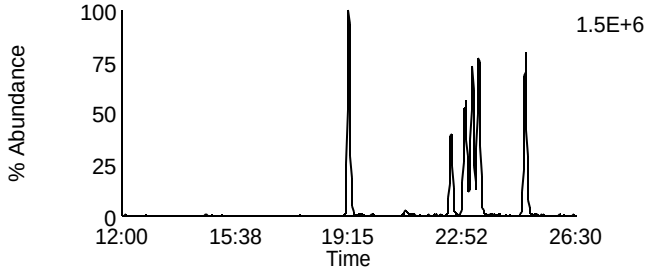
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

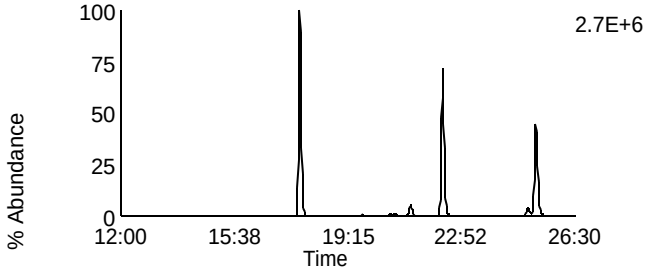
Data File: F131125C_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-288 - BAL USD331524H



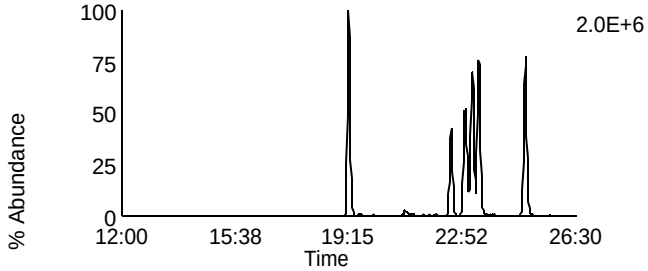
Data File: F131125C_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-288 - BAL USD331524H



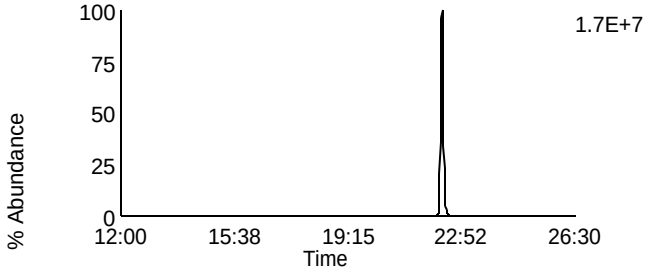
Data File: F131125C_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-288 - BAL USD331524H



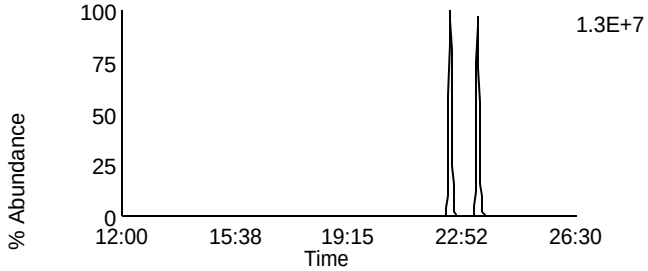
Data File: F131125C_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-288 - BAL USD331524H



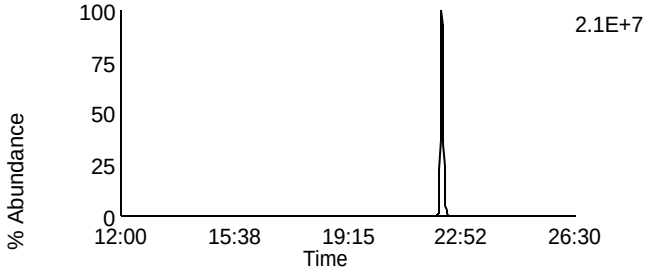
Data File: F131125C_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-288 - BAL USD331524H



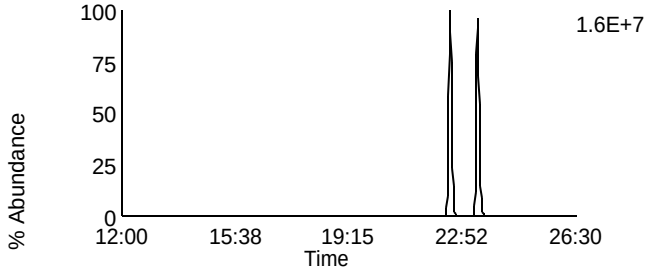
Data File: F131125C_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-288 - BAL USD331524H



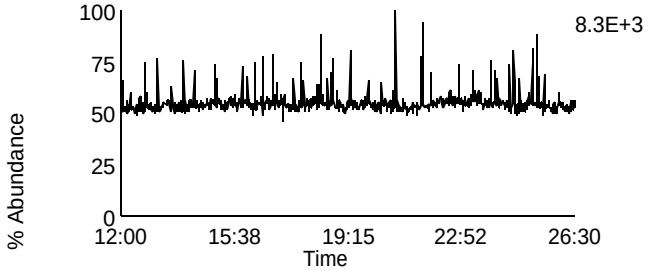
Data File: F131125C_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-288 - BAL USD331524H



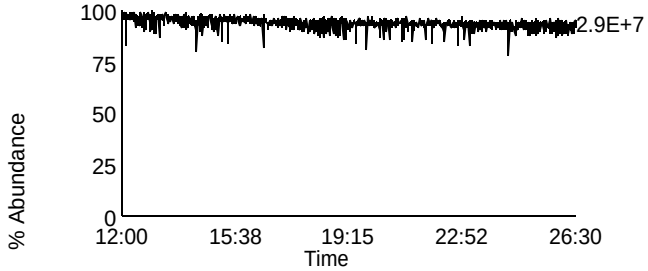
Data File: F131125C_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

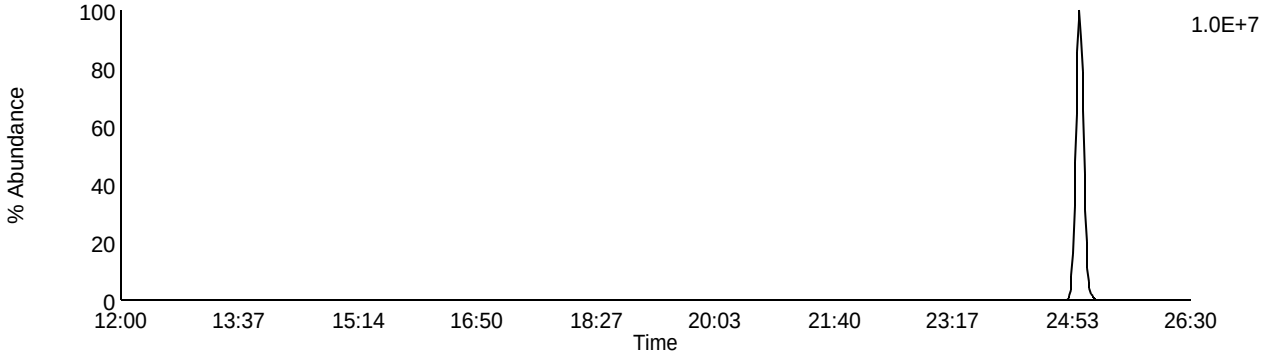


Homologue Group: Penta & Cleanup

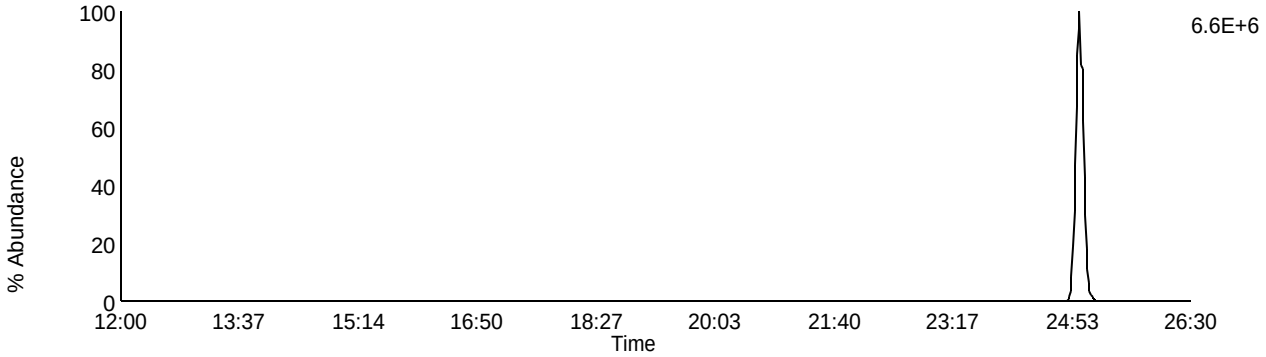
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

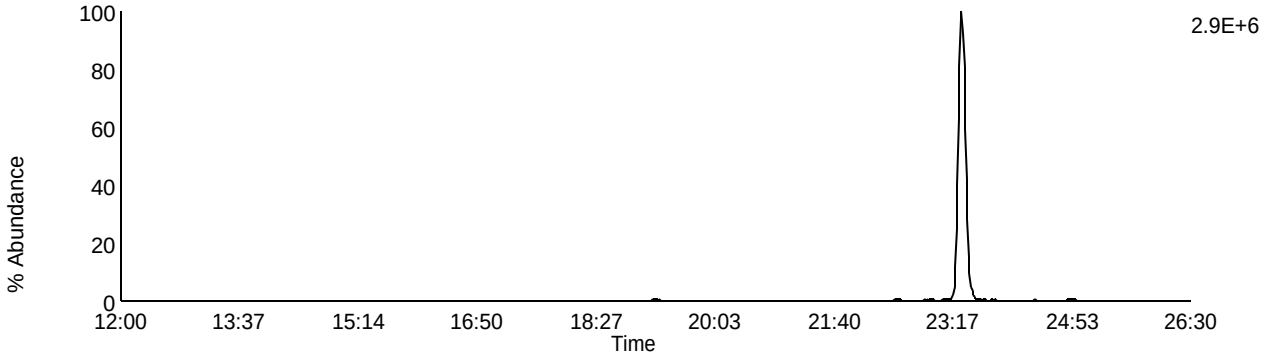
Data File: F131125C_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-288 - BAL USD331524H



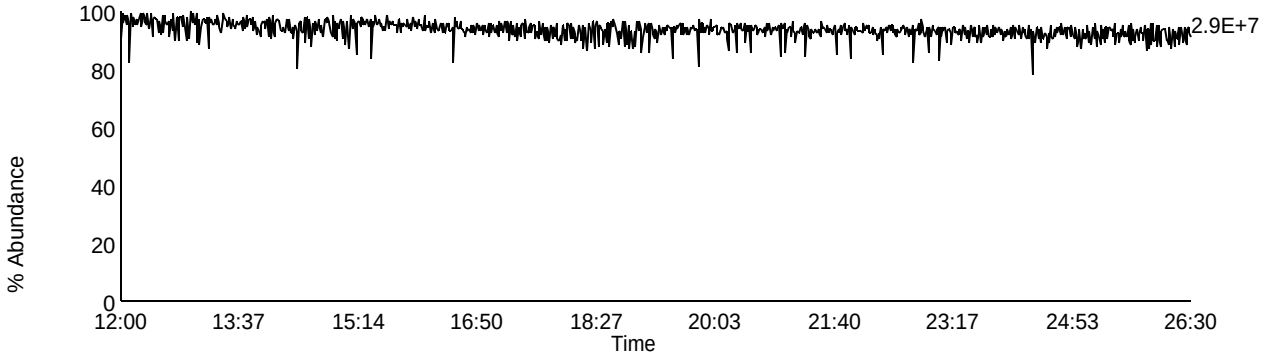
Data File: F131125C_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

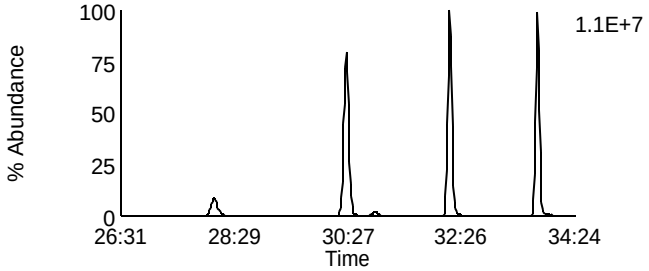


Homologue Group: Pentas

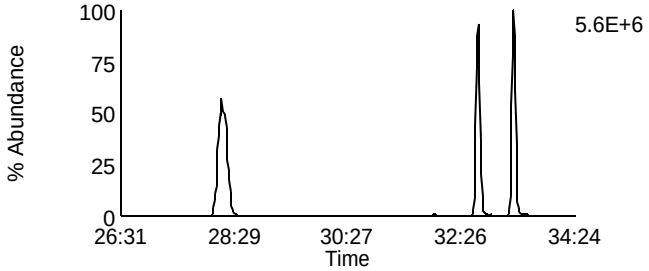
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

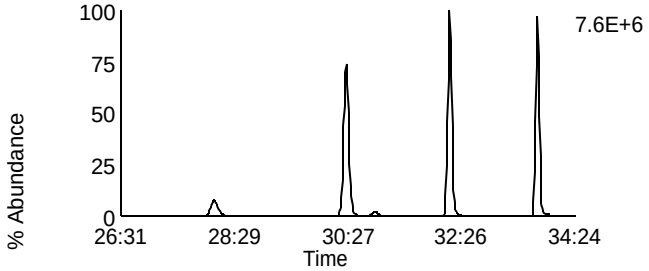
Data File: F131125C_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-288 - BAL USD331524H



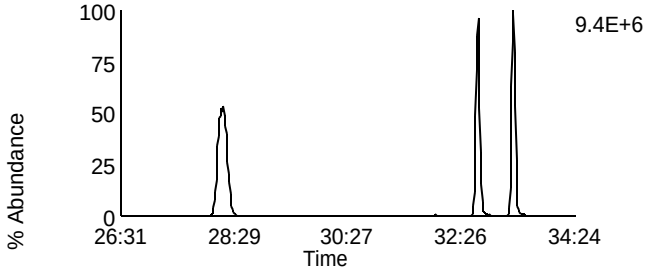
Data File: F131125C_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-288 - BAL USD331524H



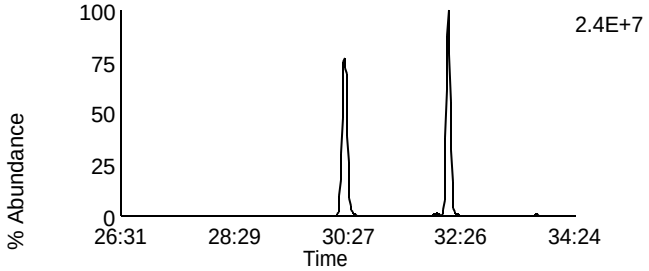
Data File: F131125C_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-288 - BAL USD331524H



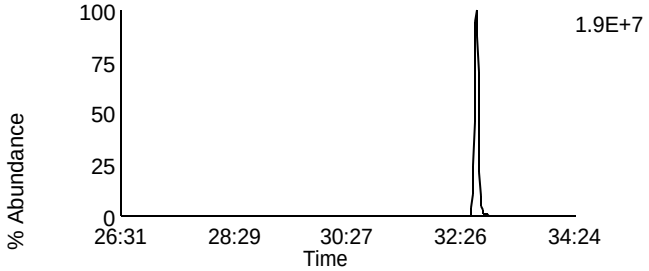
Data File: F131125C_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-288 - BAL USD331524H



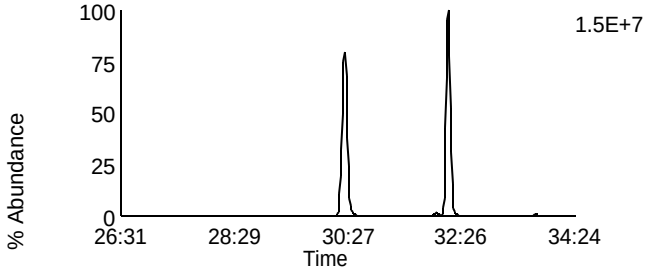
Data File: F131125C_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-288 - BAL USD331524H



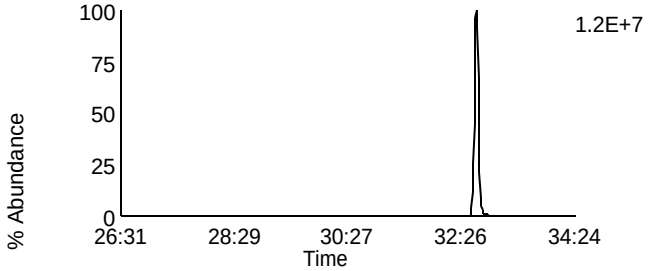
Data File: F131125C_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-288 - BAL USD331524H



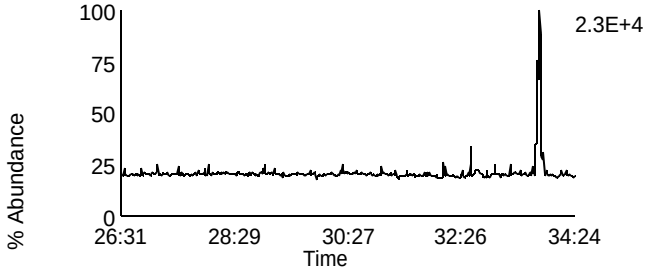
Data File: F131125C_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-288 - BAL USD331524H



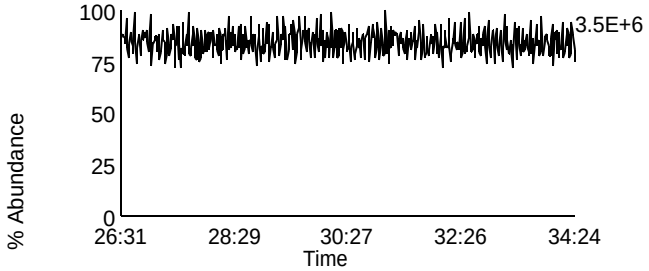
Data File: F131125C_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

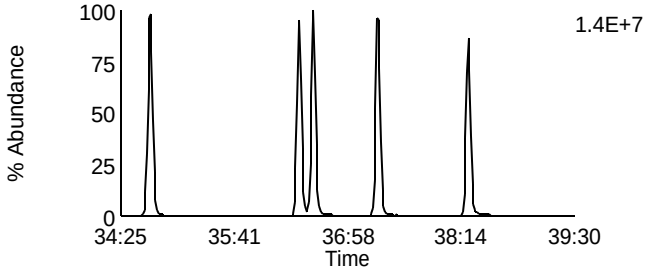


Homologue Group: Hexas

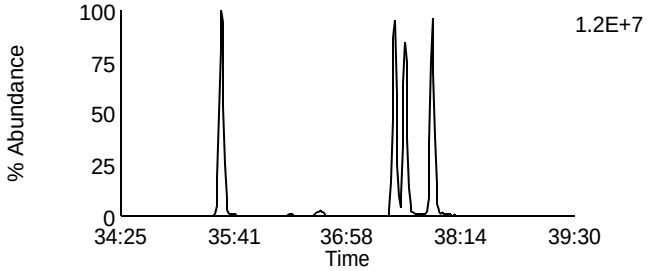
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

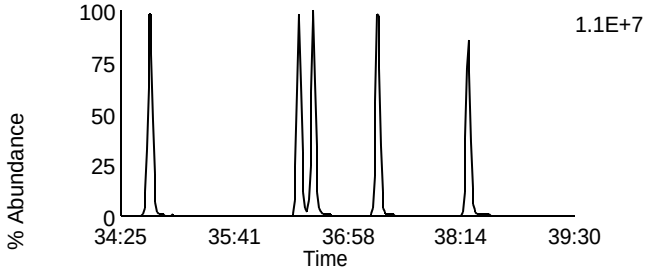
Data File: F131125C_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-288 - BAL USD331524H



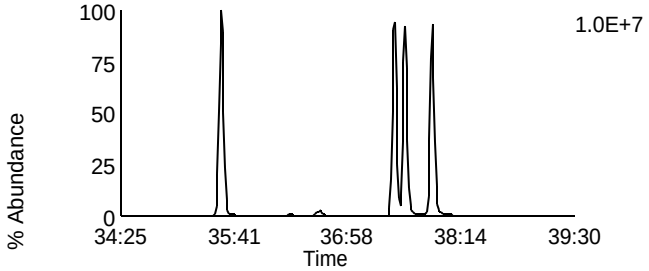
Data File: F131125C_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-288 - BAL USD331524H



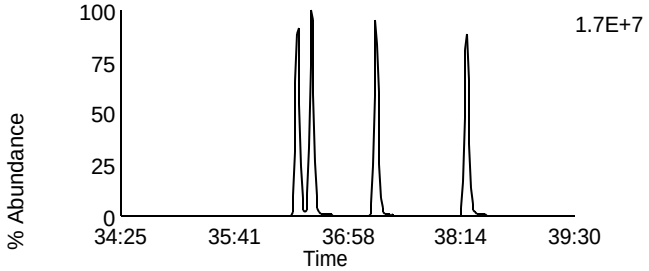
Data File: F131125C_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-288 - BAL USD331524H



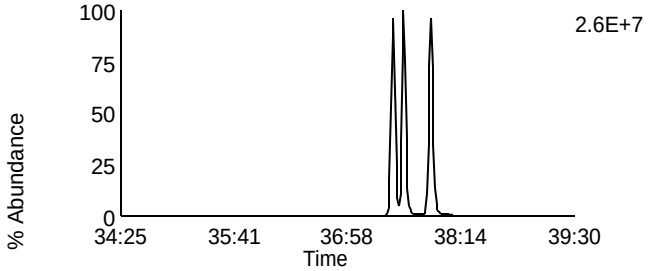
Data File: F131125C_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-288 - BAL USD331524H



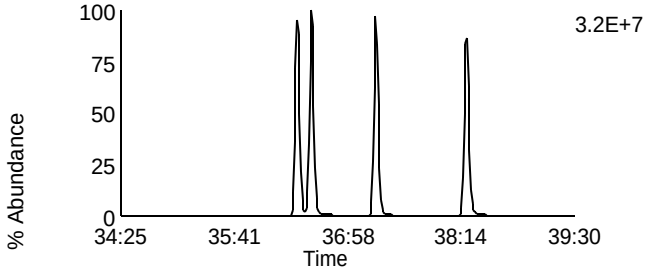
Data File: F131125C_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C6 - 385.861
CAL CS3/CPM-7604-288 - BAL USD331524H



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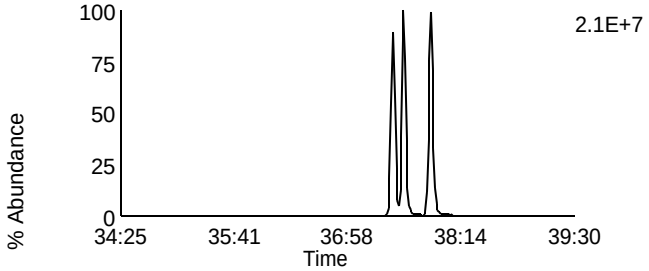
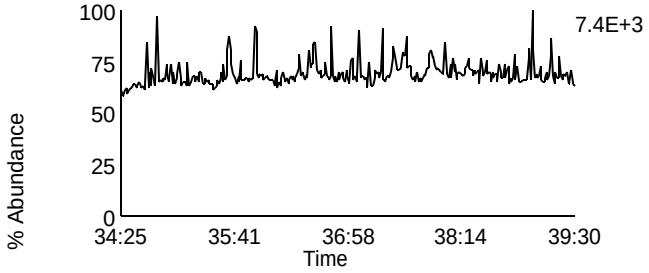
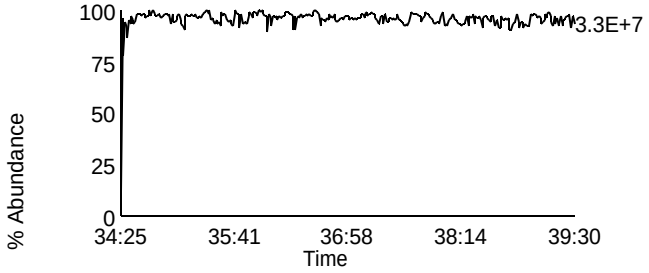
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C3 - 380.976
CAL CS3/CPM-7604-288 - BAL USD331524H

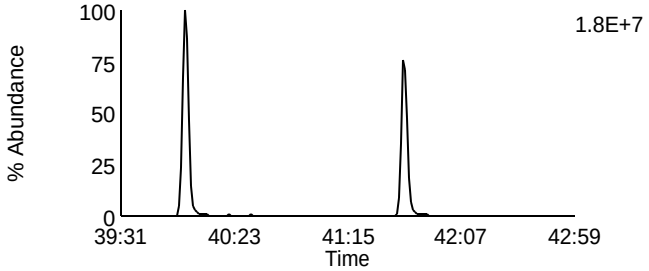


Homologue Group: Heptas

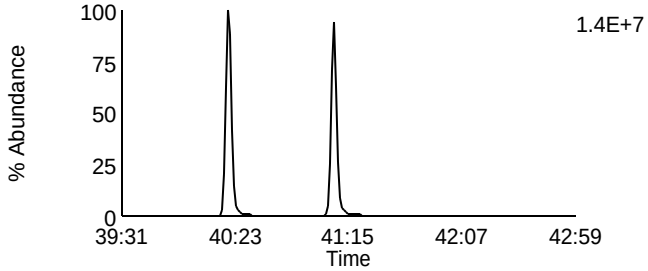
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

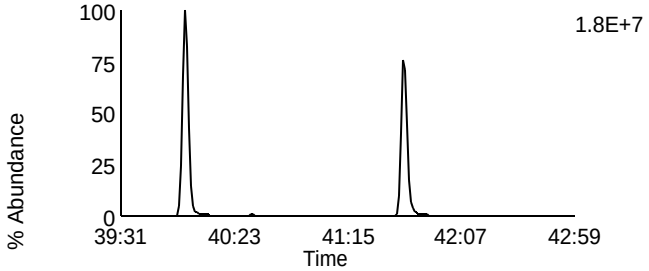
Data File: F131125C_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-288 - BAL USD331524H



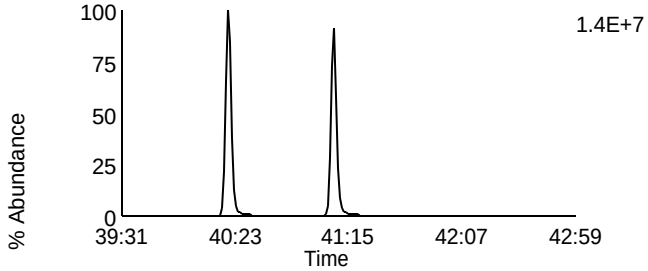
Data File: F131125C_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-288 - BAL USD331524H



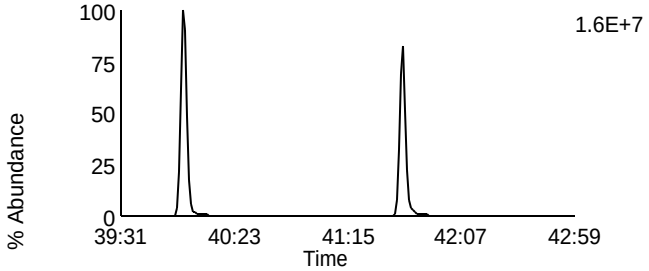
Data File: F131125C_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-288 - BAL USD331524H



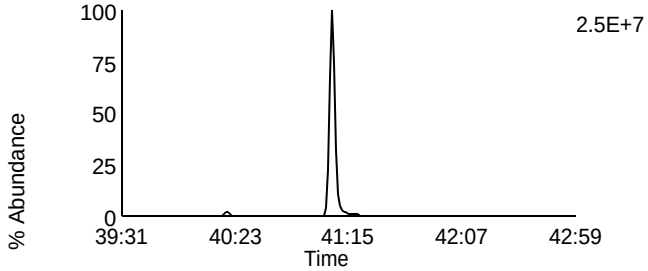
Data File: F131125C_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-288 - BAL USD331524H



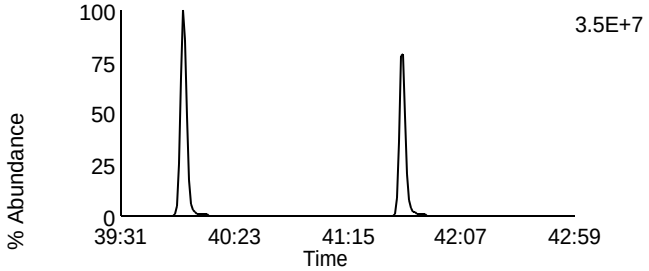
Data File: F131125C_01 G4 C6 - 417.825
CAL CS3/CPM-7604-288 - BAL USD331524H



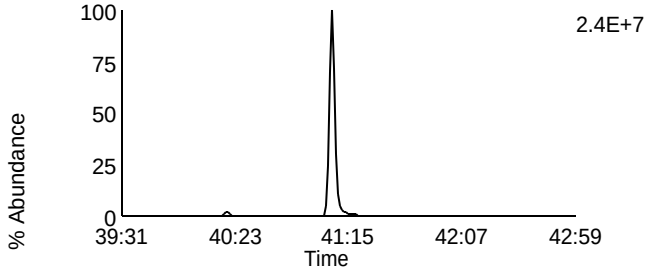
Data File: F131125C_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-288 - BAL USD331524H



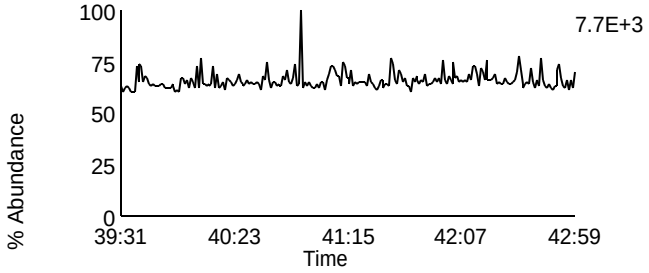
Data File: F131125C_01 G4 C7 - 419.822
CAL CS3/CPM-7604-288 - BAL USD331524H



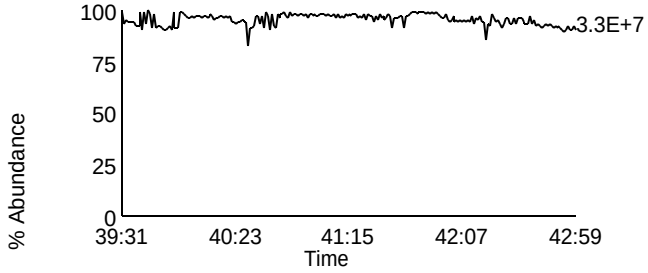
Data File: F131125C_01 G4 C12 - 437.814
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C1 - 380.976
CAL CS3/CPM-7604-288 - BAL USD331524H

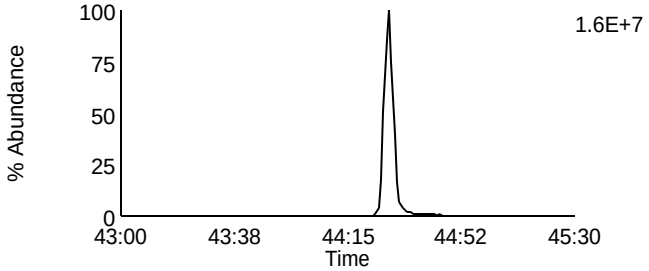


Homologue Group: Octas

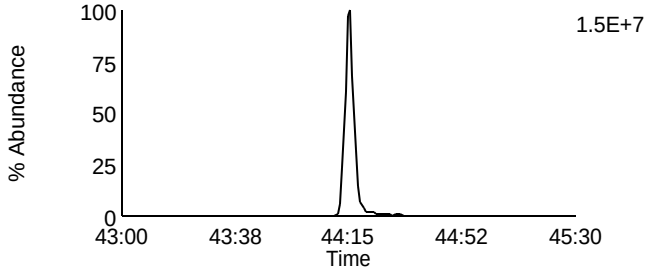
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

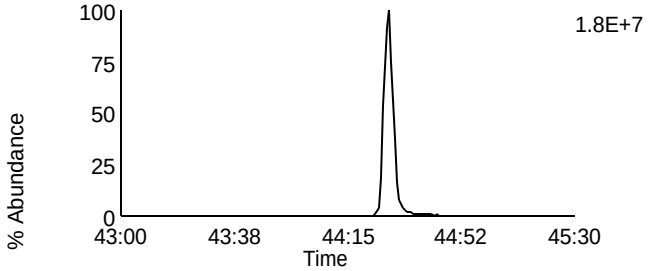
Data File: F131125C_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-288 - BAL USD331524H



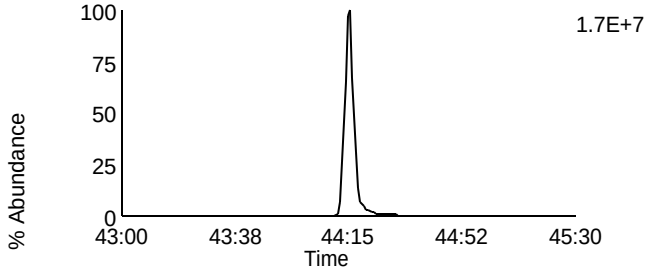
Data File: F131125C_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-288 - BAL USD331524H



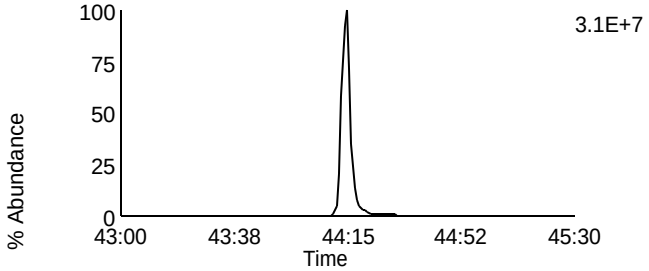
Data File: F131125C_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-288 - BAL USD331524H



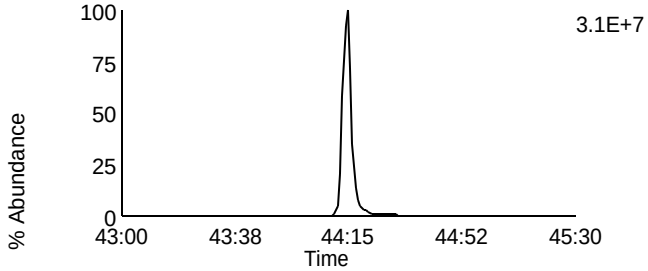
Data File: F131125C_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-288 - BAL USD331524H



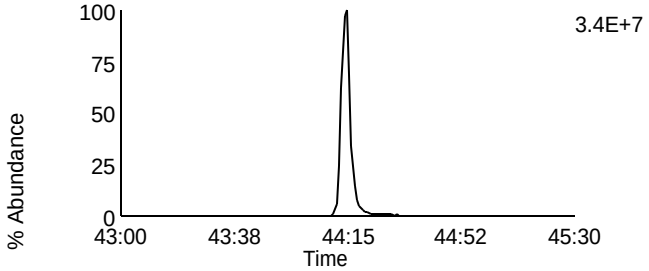
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



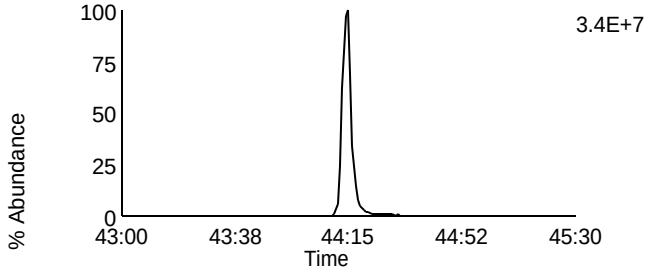
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



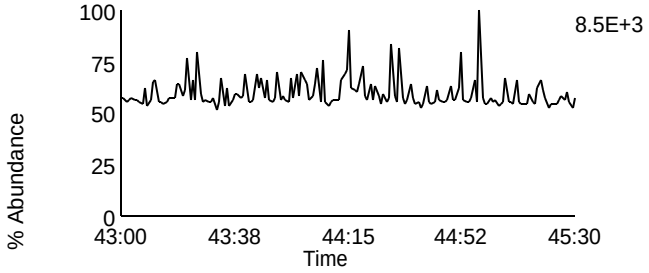
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



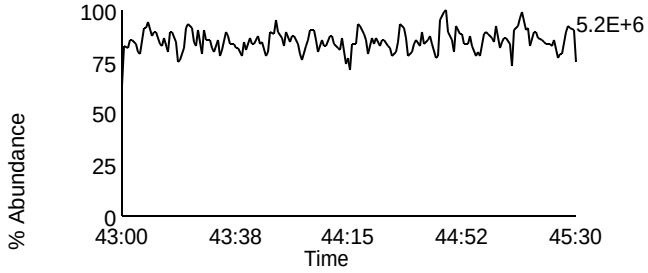
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-288 - BAL USD331524H

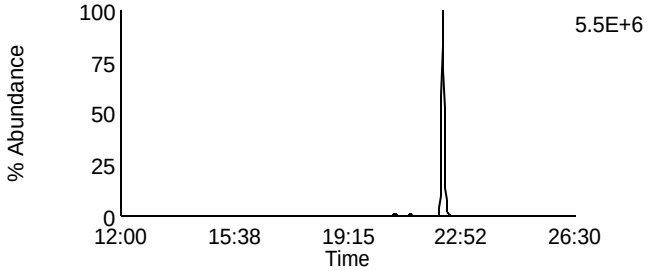


Homologue Group: Tetras

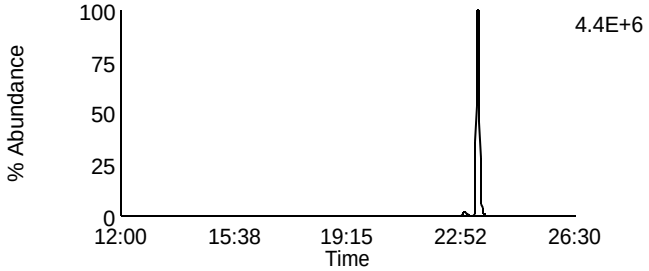
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

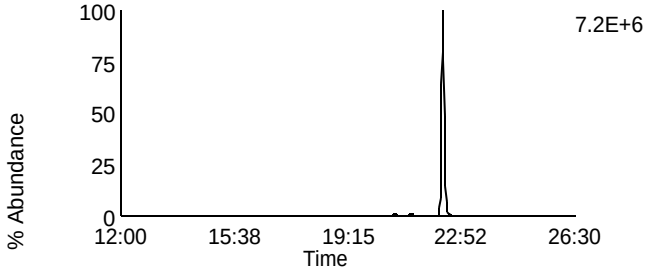
Data File: F131125C_06 G1 C1 - 303.9016
CAL CS4-7604-277 - BAL



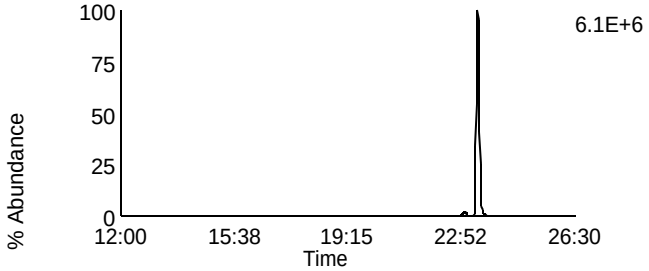
Data File: F131125C_06 G1 C7 - 319.8965
CAL CS4-7604-277 - BAL



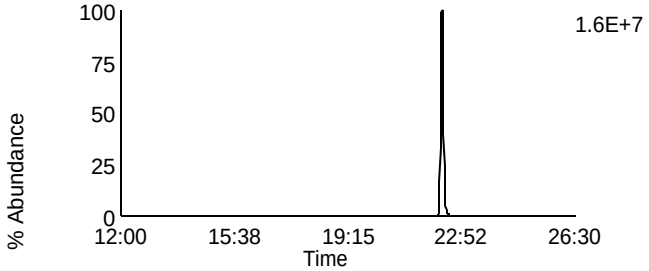
Data File: F131125C_06 G1 C2 - 305.8987
CAL CS4-7604-277 - BAL



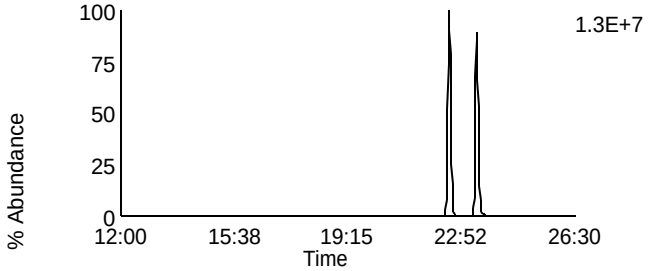
Data File: F131125C_06 G1 C8 - 321.8936
CAL CS4-7604-277 - BAL



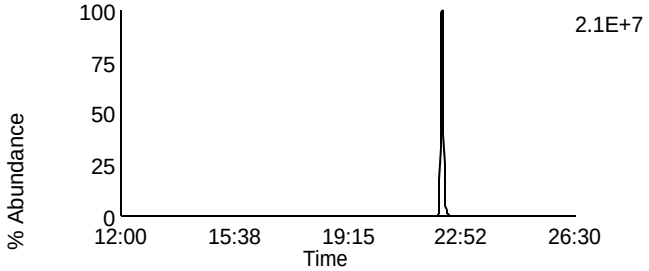
Data File: F131125C_06 G1 C3 - 315.9418
CAL CS4-7604-277 - BAL



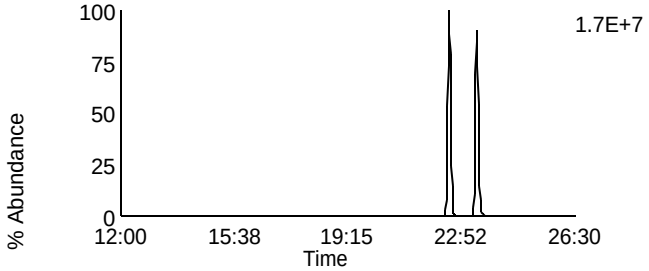
Data File: F131125C_06 G1 C10 - 331.9367
CAL CS4-7604-277 - BAL



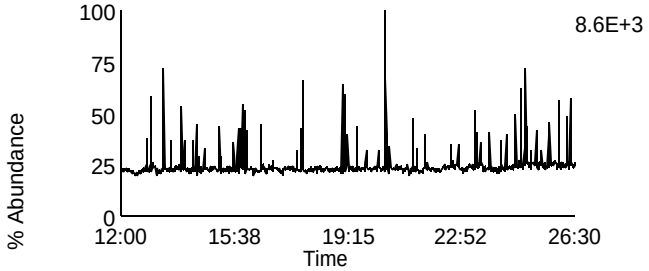
Data File: F131125C_06 G1 C4 - 317.9389
CAL CS4-7604-277 - BAL



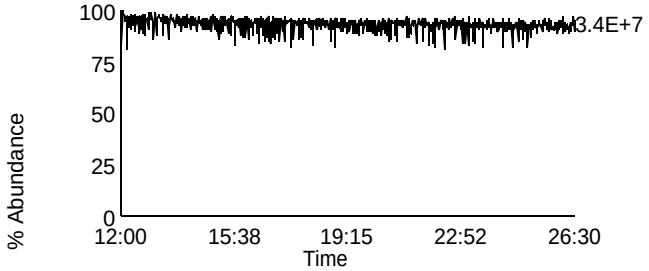
Data File: F131125C_06 G1 C11 - 333.9338
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G1 C14 - 375.8364
CAL CS4-7604-277 - BAL



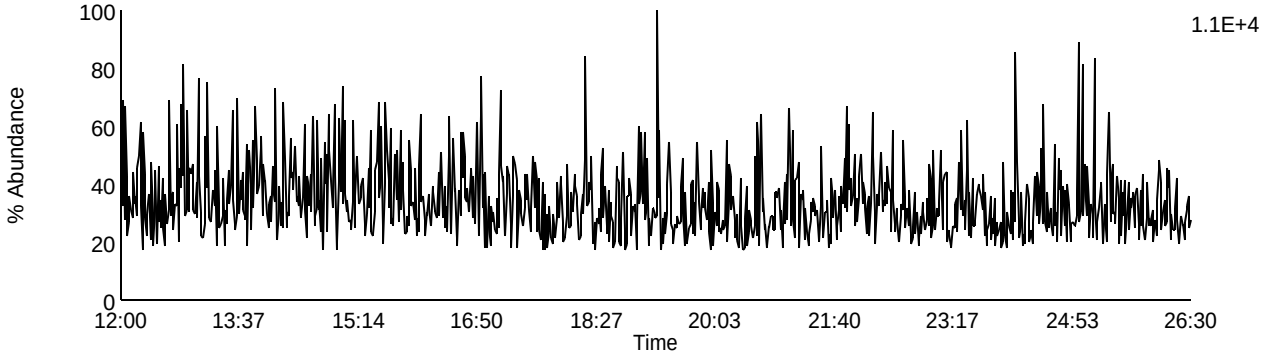
Data File: F131125C_06 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL



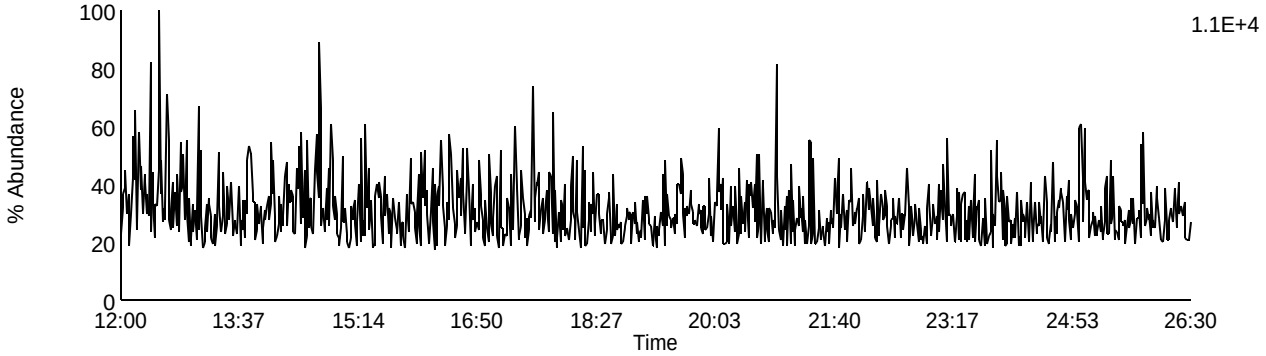
Homologue Group: Penta & Cleanup

Data File Name: F131125C_06	Lab Sample ID: CS4-7604-277
Date Acquired: 11/26/2013	Client Sample ID:
Sample Description: CAL CS4-7604-277 - BAL	Instrument: 10MSHR05 (F)

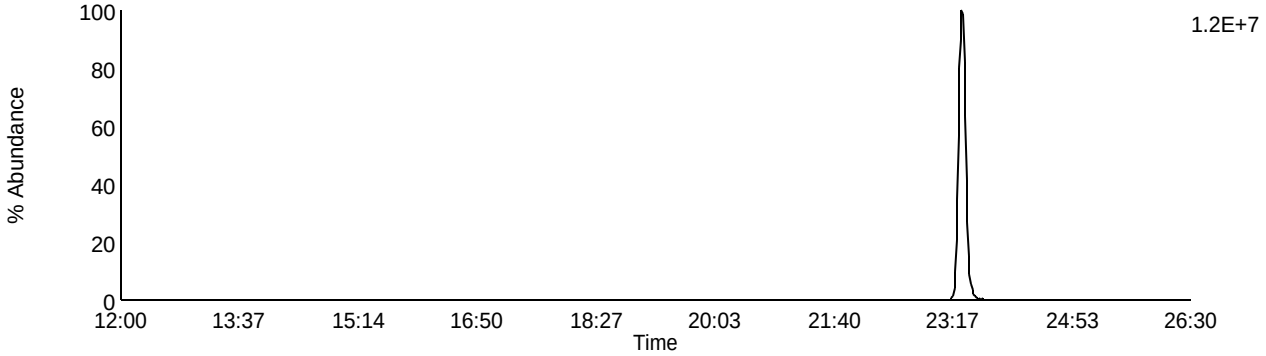
Data File: F131125C_06 G1 C12 - 339.8597
CAL CS4-7604-277 - BAL



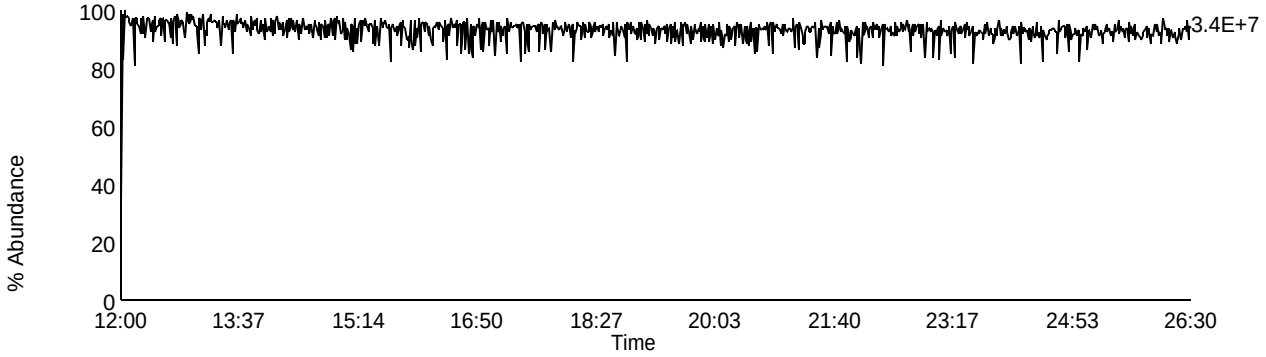
Data File: F131125C_06 G1 C13 - 341.8567
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G1 C9 - 327.8847
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL

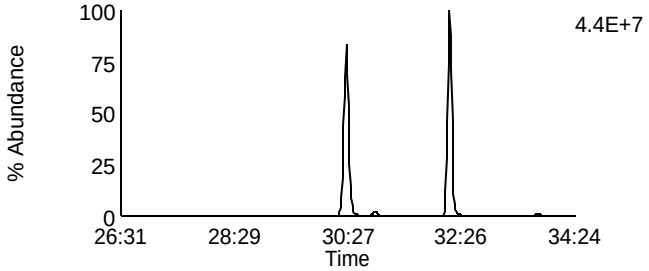


Homologue Group: Pentas

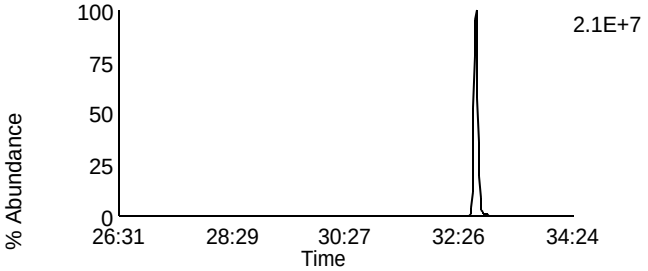
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

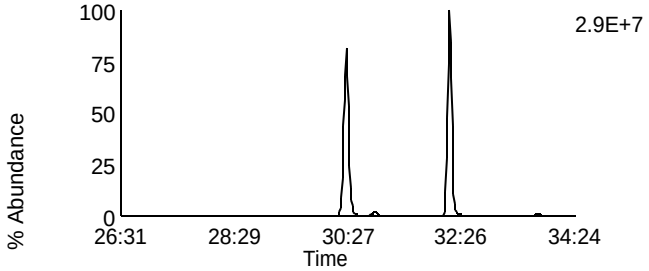
Data File: F131125C_06 G2 C1 - 339.8597
CAL CS4-7604-277 - BAL



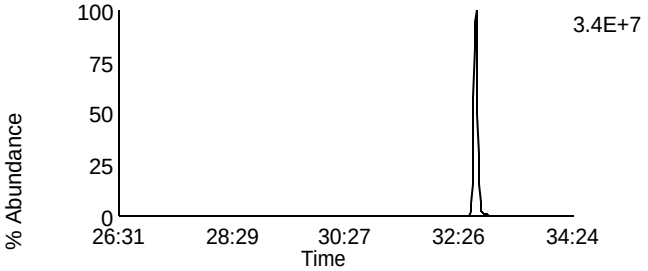
Data File: F131125C_06 G2 C4 - 353.8576
CAL CS4-7604-277 - BAL



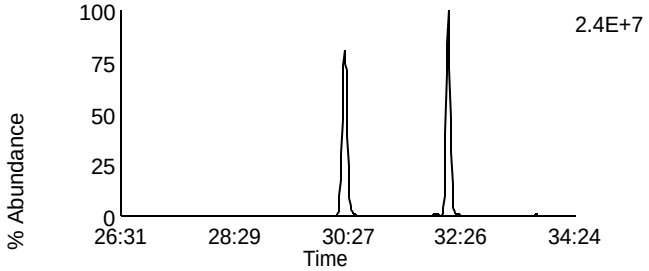
Data File: F131125C_06 G2 C2 - 341.8567
CAL CS4-7604-277 - BAL



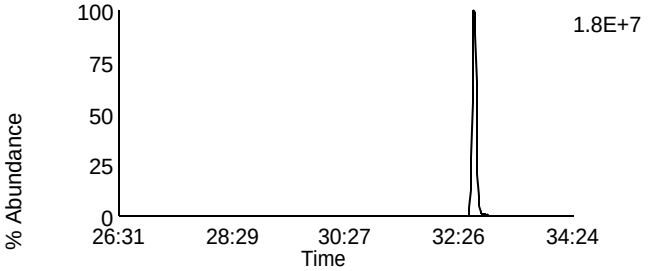
Data File: F131125C_06 G2 C8 - 355.8546
CAL CS4-7604-277 - BAL



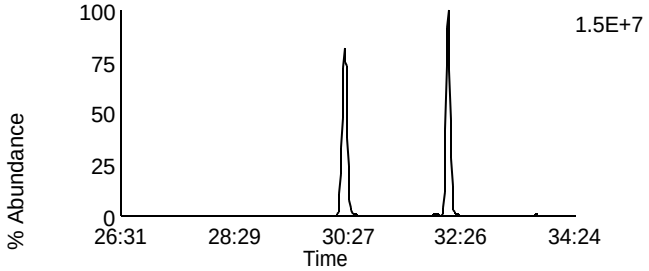
Data File: F131125C_06 G2 C3 - 351.8999
CAL CS4-7604-277 - BAL



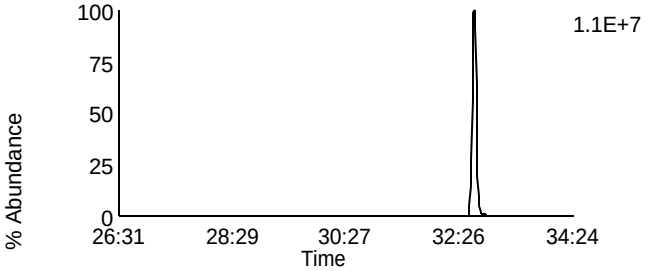
Data File: F131125C_06 G2 C10 - 367.8948
CAL CS4-7604-277 - BAL



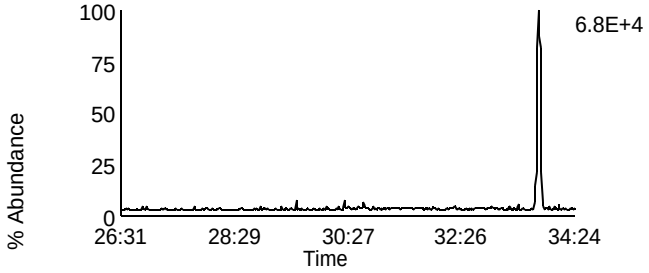
Data File: F131125C_06 G2 C5 - 353.8969
CAL CS4-7604-277 - BAL



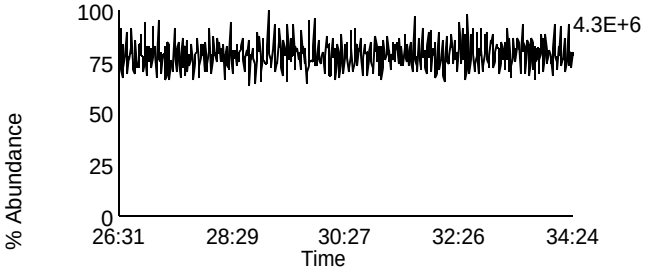
Data File: F131125C_06 G2 C11 - 369.8918
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G2 C12 - 409.7974
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G2 C6 - 354.9792
CAL CS4-7604-277 - BAL

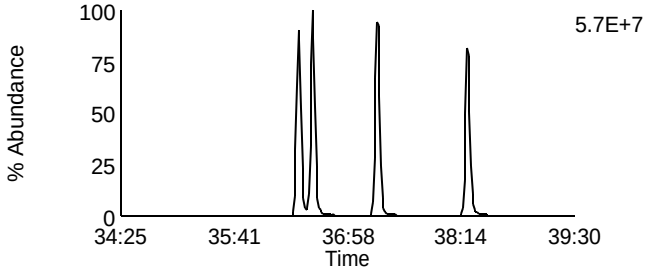


Homologue Group: Hexas

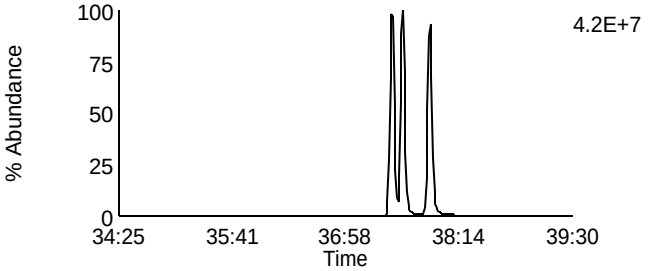
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

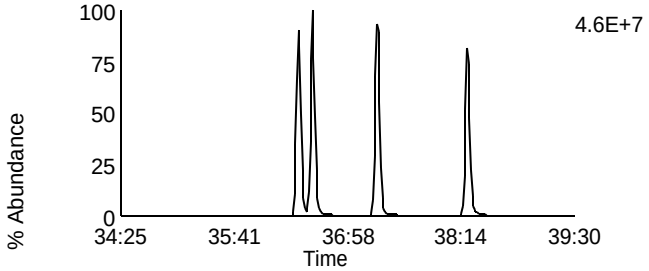
Data File: F131125C_06 G3 C1 - 373.8207
CAL CS4-7604-277 - BAL



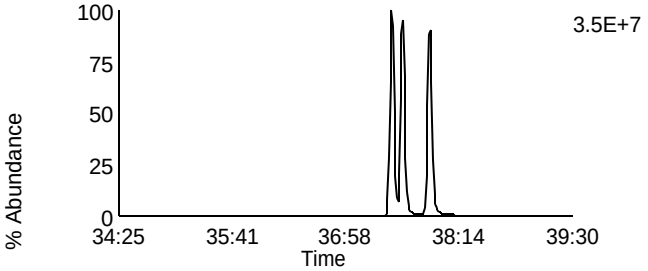
Data File: F131125C_06 G3 C7 - 389.8156
CAL CS4-7604-277 - BAL



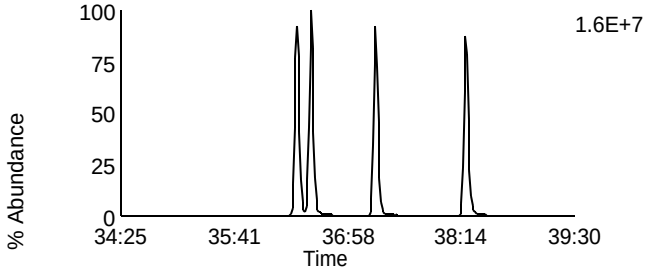
Data File: F131125C_06 G3 C2 - 375.8178
CAL CS4-7604-277 - BAL



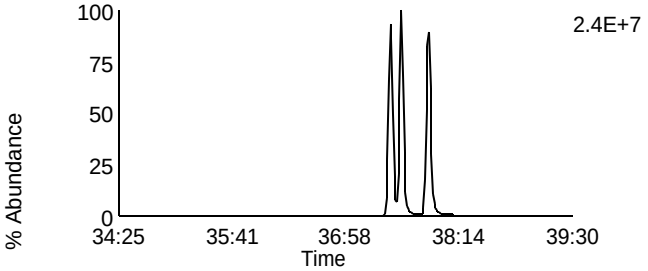
Data File: F131125C_06 G3 C8 - 391.8127
CAL CS4-7604-277 - BAL



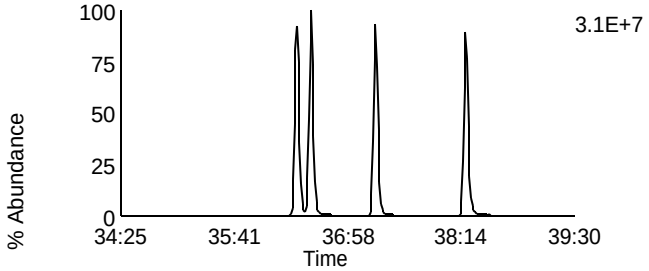
Data File: F131125C_06 G3 C5 - 383.8639
CAL CS4-7604-277 - BAL



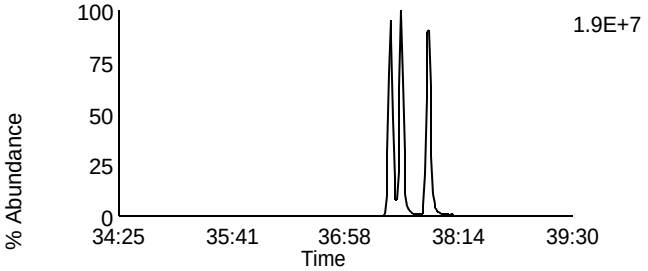
Data File: F131125C_06 G3 C9 - 401.8559
CAL CS4-7604-277 - BAL



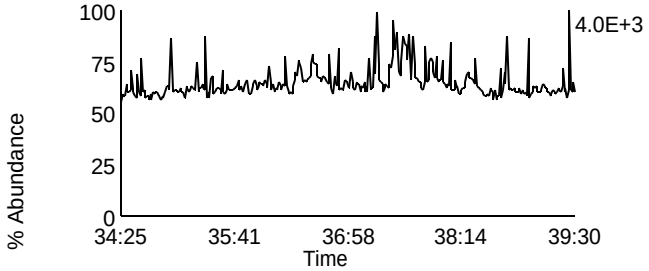
Data File: F131125C_06 G3 C6 - 385.861
CAL CS4-7604-277 - BAL



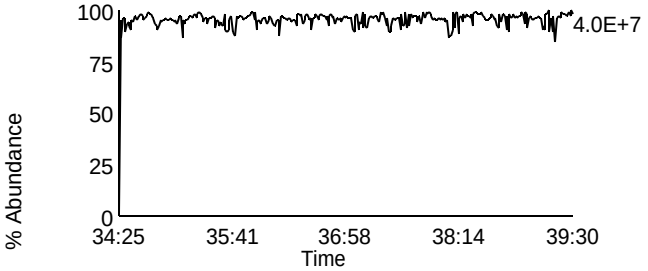
Data File: F131125C_06 G3 C10 - 403.8529
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G3 C11 - 445.7555
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G3 C3 - 380.976
CAL CS4-7604-277 - BAL

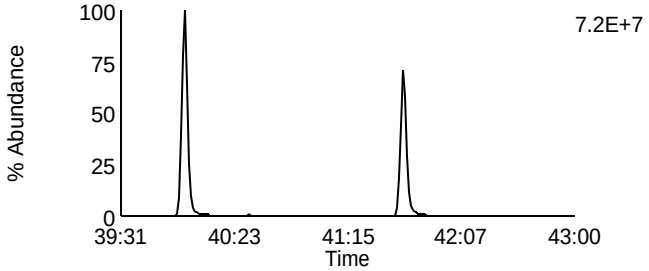


Homologue Group: Heptas

Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_06 G4 C3 - 407.7818
CAL CS4-7604-277 - BAL



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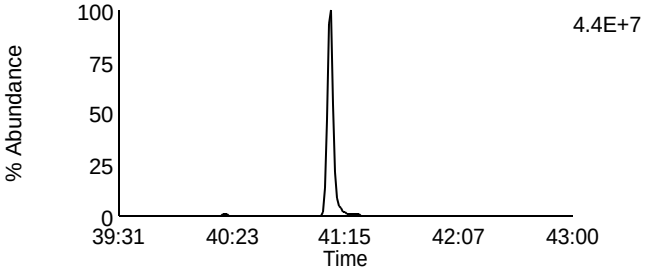
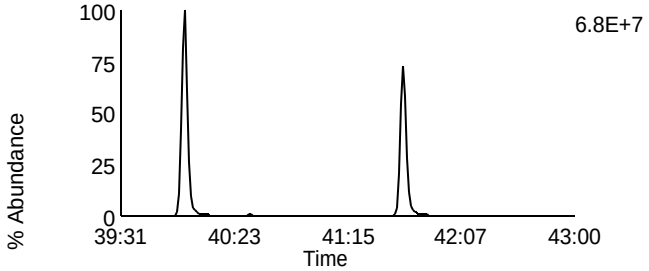
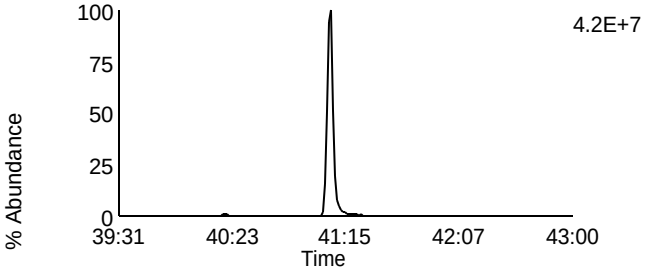
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C4 - 409.7788
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C9 - 425.7737
CAL CS4-7604-277 - BAL



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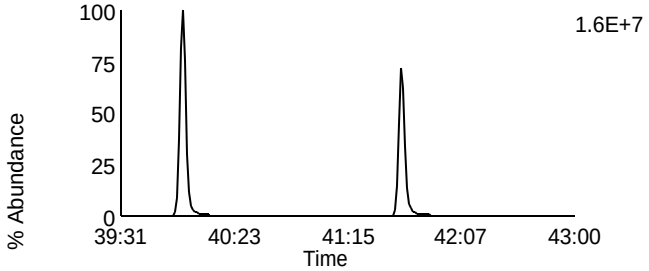
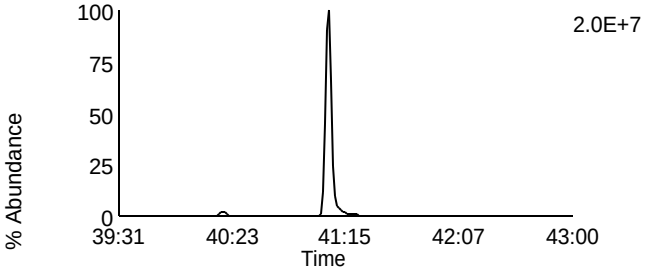
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C11 - 435.8169
CAL CS4-7604-277 - BAL



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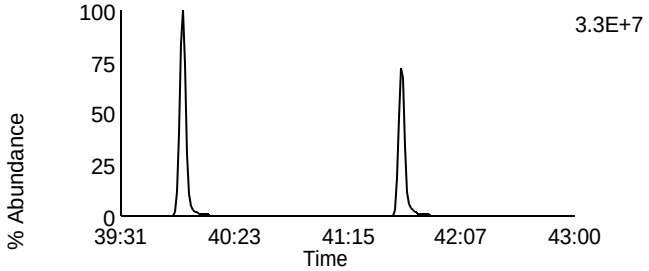
CAL CS4-7604-277 - BAL



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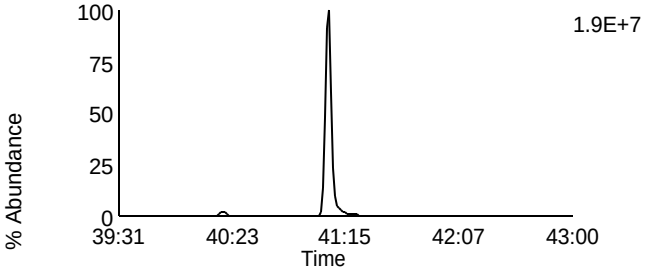
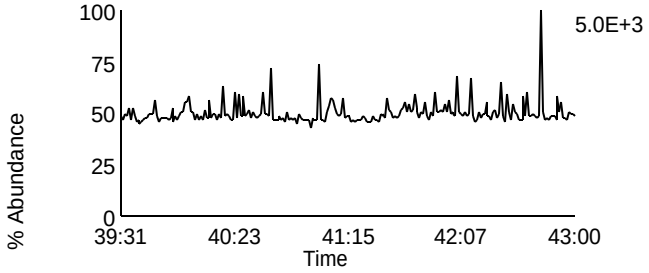
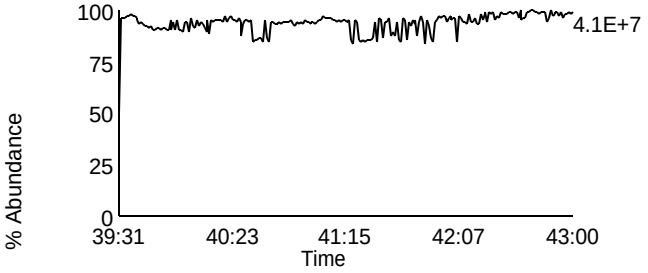
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C13 - 479.7165
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C1 - 380.976
CAL CS4-7604-277 - BAL

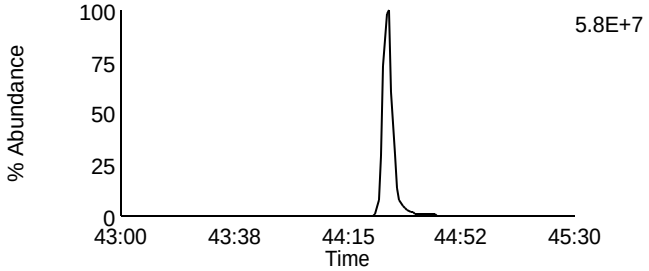


Homologue Group: Octas

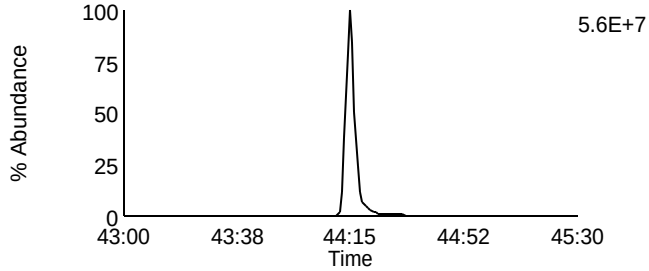
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

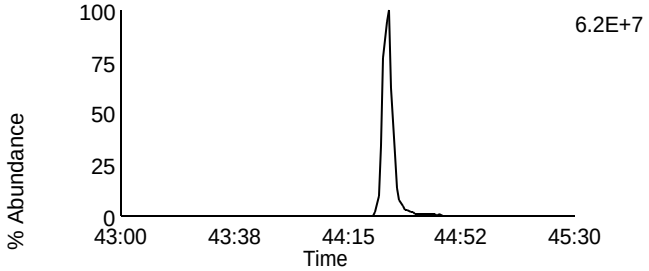
Data File: F131125C_06 G5 C4 - 441.7428
CAL CS4-7604-277 - BAL



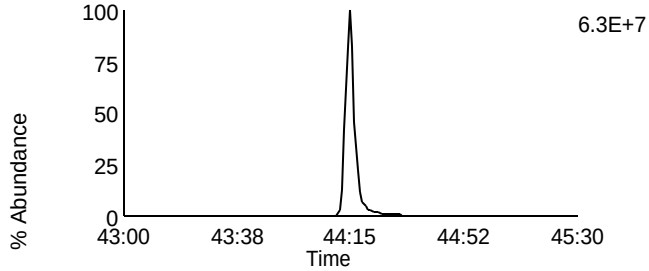
Data File: F131125C_06 G5 C8 - 457.7377
CAL CS4-7604-277 - BAL



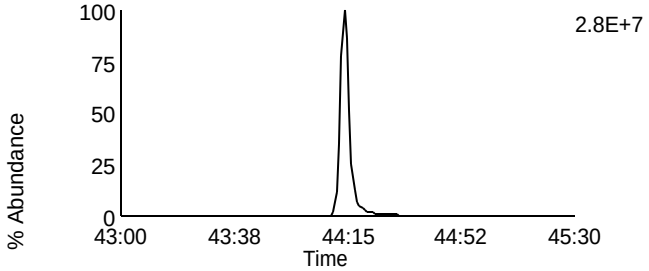
Data File: F131125C_06 G5 C5 - 443.7398
CAL CS4-7604-277 - BAL



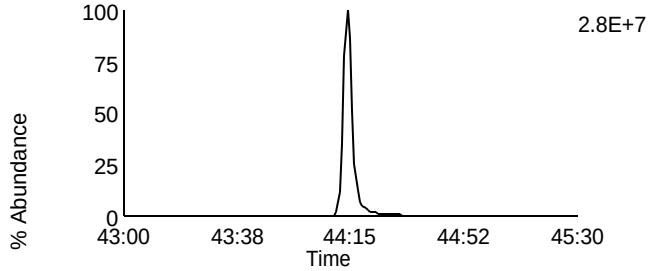
Data File: F131125C_06 G5 C9 - 459.7347
CAL CS4-7604-277 - BAL



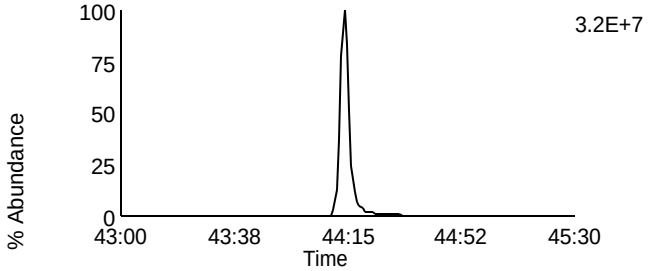
Data File: F131125C_06 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



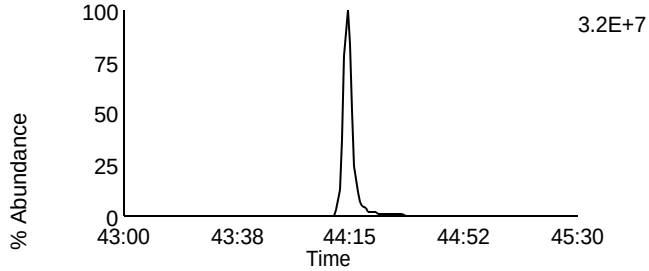
Data File: F131125C_06 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



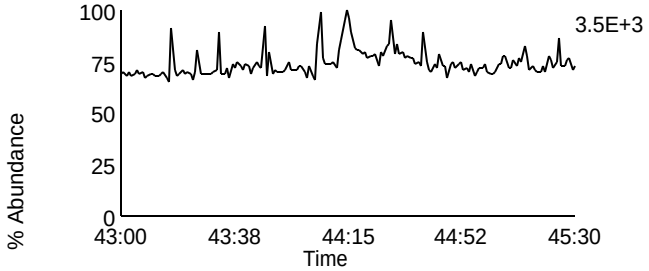
Data File: F131125C_06 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



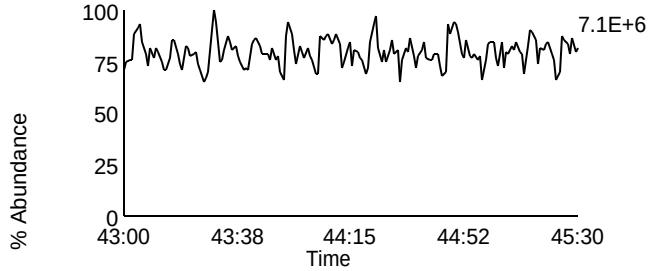
Data File: F131125C_06 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G5 C13 - 513.6775
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G5 C2 - 430.9728
CAL CS4-7604-277 - BAL

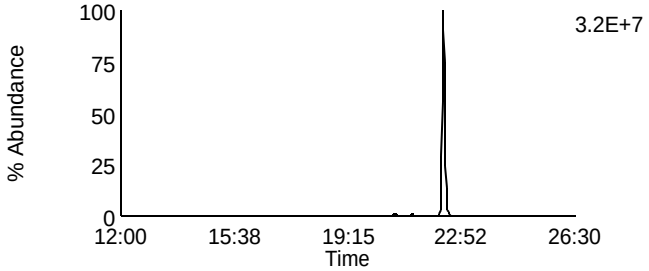


Homologue Group: Tetras

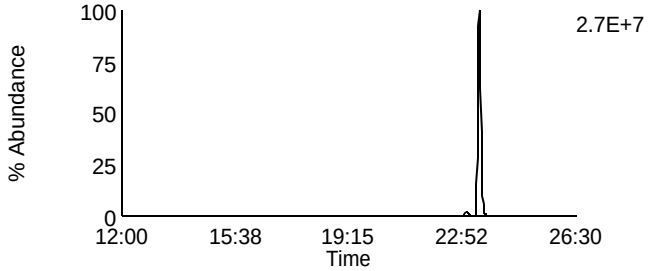
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_05 G1 C1 - 303.9016
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G1 C7 - 319.8965
CAL CS5-7604-278 - BAL



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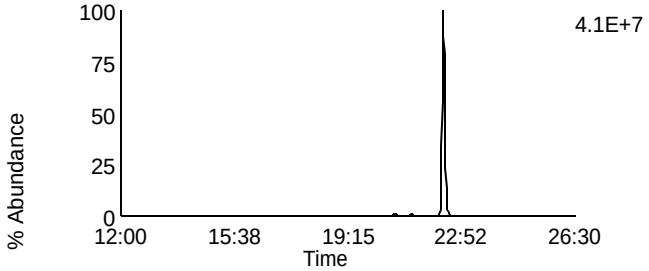
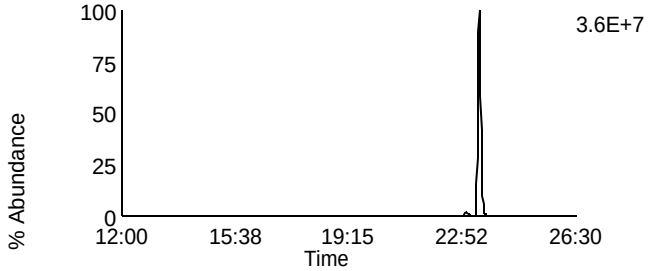
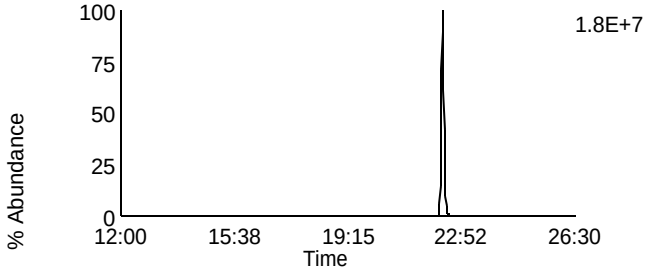
CAL CS5-7604-278 - BAL



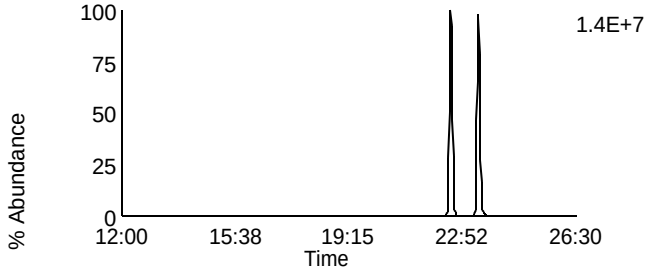
Data File: F131125C_05 G1 C8 - 321.8936
CAL CS5-7604-278 - BAL



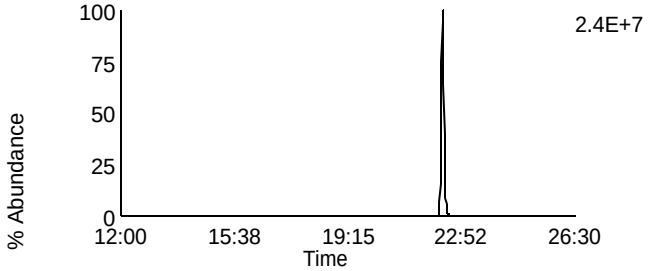
Data File: F131125C_05 G1 C3 - 315.9418
CAL CS5-7604-278 - BAL



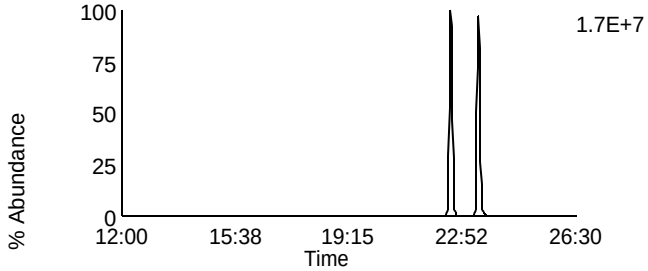
Data File: F131125C_05 G1 C10 - 331.9367
CAL CS5-7604-278 - BAL



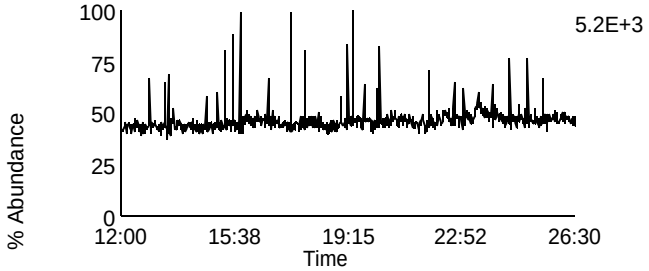
Data File: F131125C_05 G1 C4 - 317.9389
CAL CS5-7604-278 - BAL



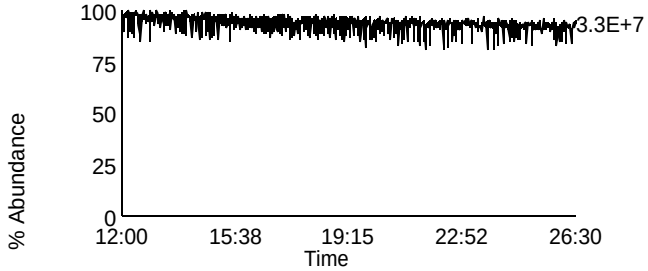
Data File: F131125C_05 G1 C11 - 333.9338
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G1 C14 - 375.8364
CAL CS5-7604-278 - BAL



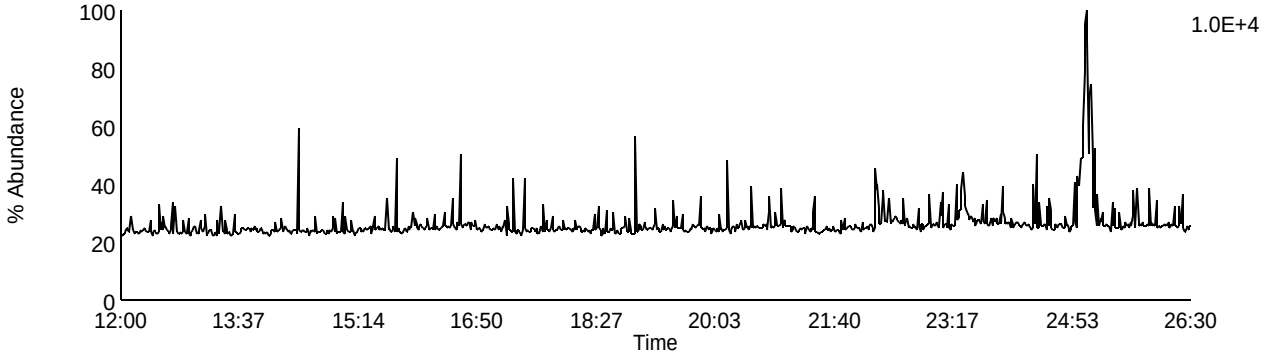
Data File: F131125C_05 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL



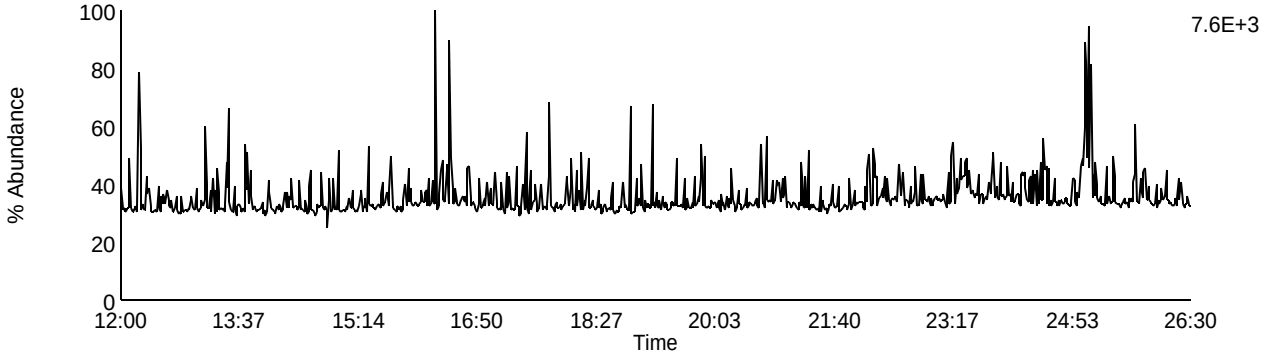
Homologue Group: Penta & Cleanup

Data File Name: F131125C_05	Lab Sample ID: CS5-7604-278
Date Acquired: 11/25/2013	Client Sample ID:
Sample Description: CAL CS5-7604-278 - BAL	Instrument: 10MSHR05 (F)

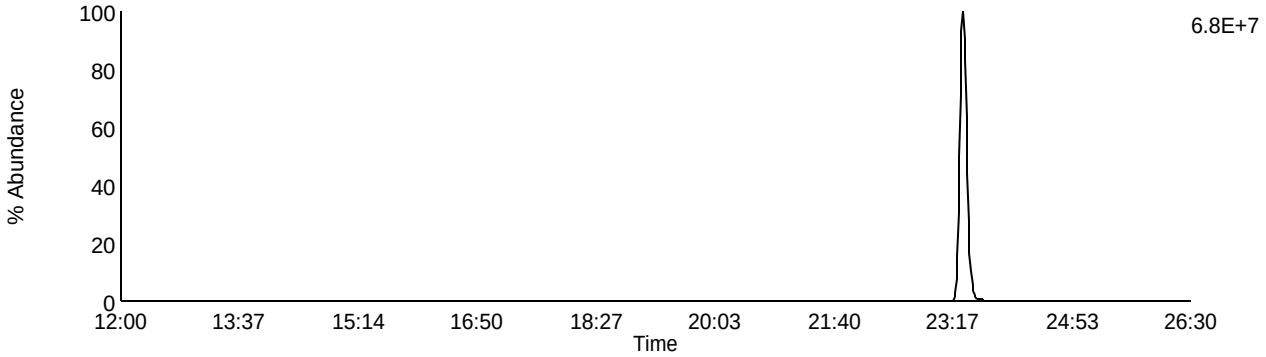
Data File: F131125C_05 G1 C12 - 339.8597
CAL CS5-7604-278 - BAL



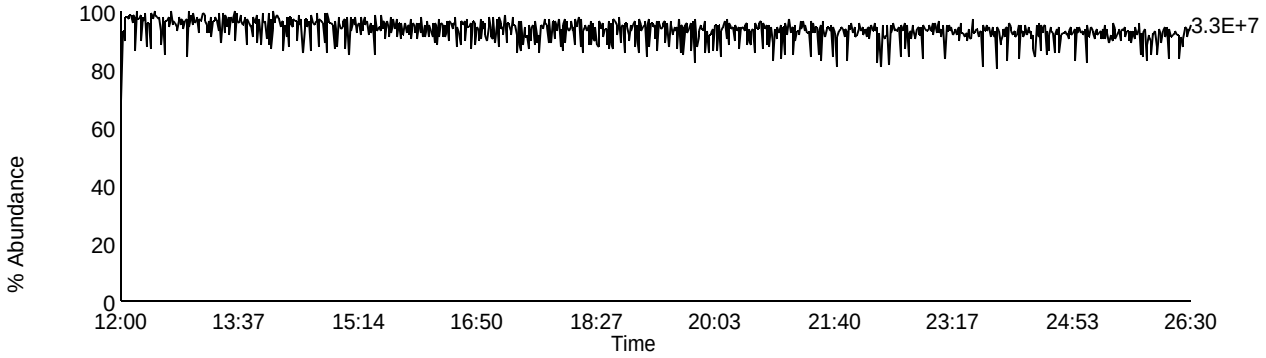
Data File: F131125C_05 G1 C13 - 341.8567
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G1 C9 - 327.8847
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL

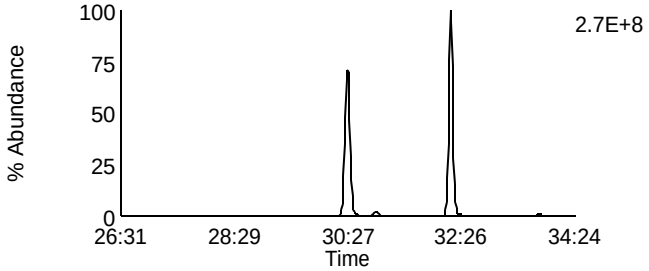


Homologue Group: Pentas

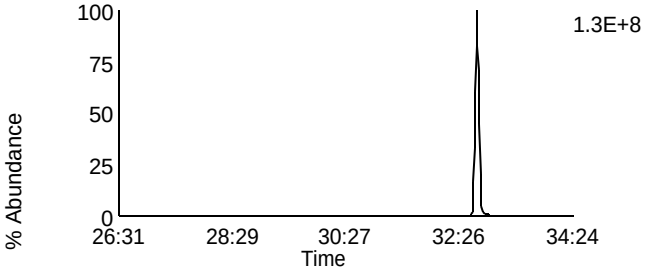
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

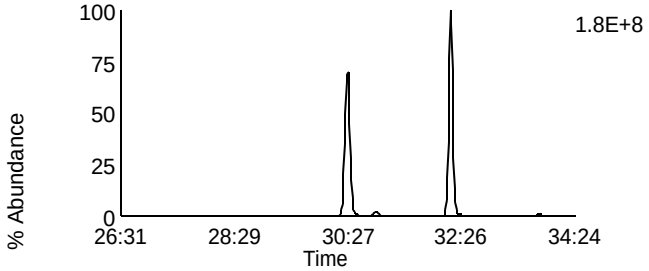
Data File: F131125C_05 G2 C1 - 339.8597
CAL CS5-7604-278 - BAL



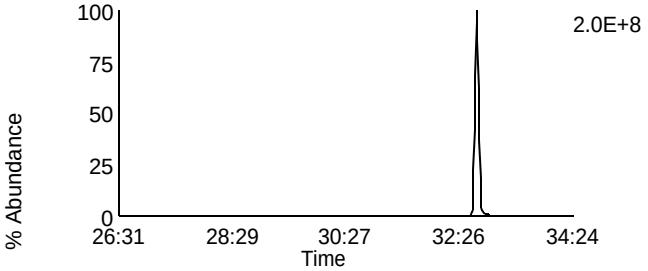
Data File: F131125C_05 G2 C4 - 353.8576
CAL CS5-7604-278 - BAL



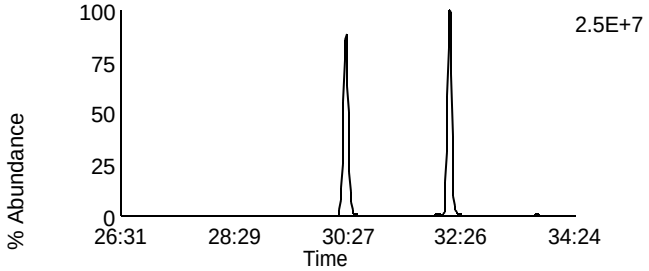
Data File: F131125C_05 G2 C2 - 341.8567
CAL CS5-7604-278 - BAL



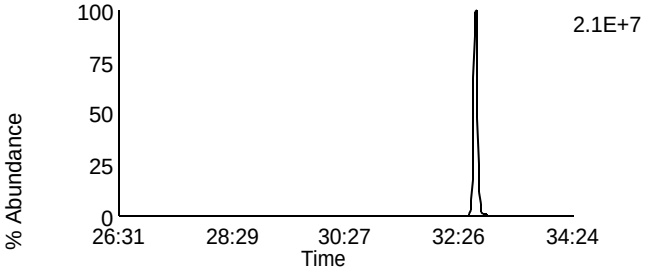
Data File: F131125C_05 G2 C8 - 355.8546
CAL CS5-7604-278 - BAL



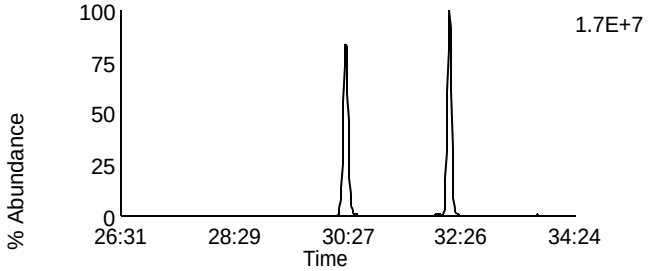
Data File: F131125C_05 G2 C3 - 351.8999
CAL CS5-7604-278 - BAL



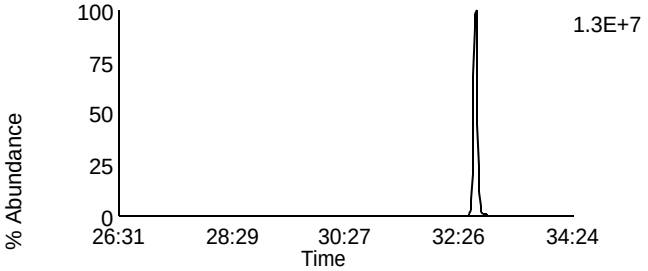
Data File: F131125C_05 G2 C10 - 367.8948
CAL CS5-7604-278 - BAL



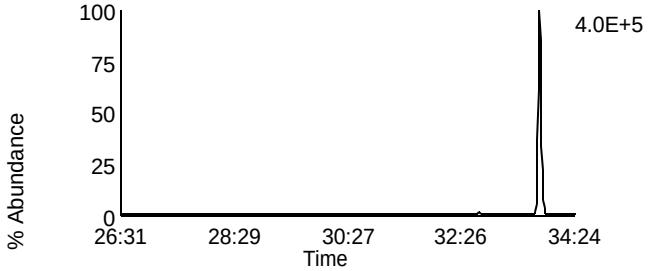
Data File: F131125C_05 G2 C5 - 353.8969
CAL CS5-7604-278 - BAL



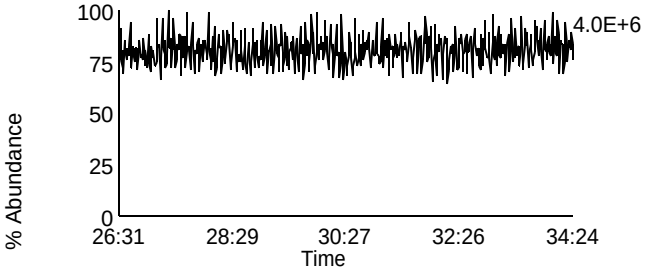
Data File: F131125C_05 G2 C11 - 369.8918
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G2 C12 - 409.7974
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G2 C6 - 354.9792
CAL CS5-7604-278 - BAL

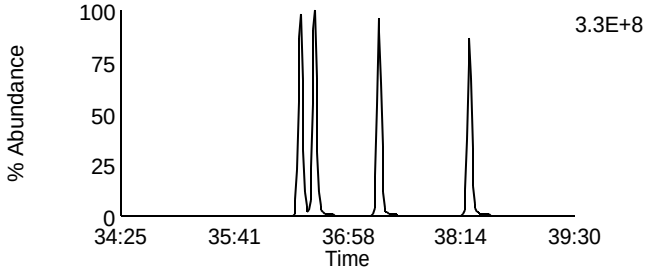


Homologue Group: Hexas

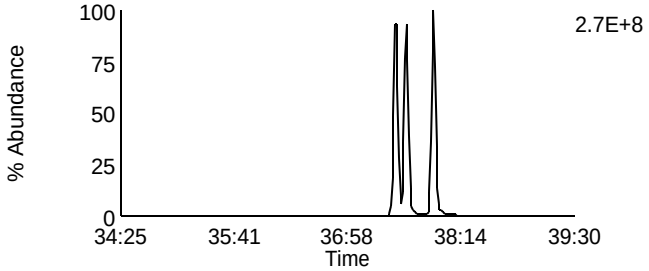
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

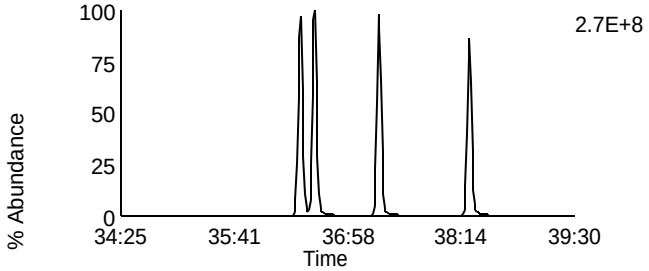
Data File: F131125C_05 G3 C1 - 373.8207
CAL CS5-7604-278 - BAL



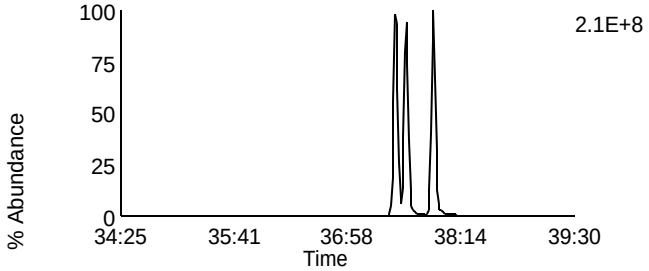
Data File: F131125C_05 G3 C7 - 389.8156
CAL CS5-7604-278 - BAL



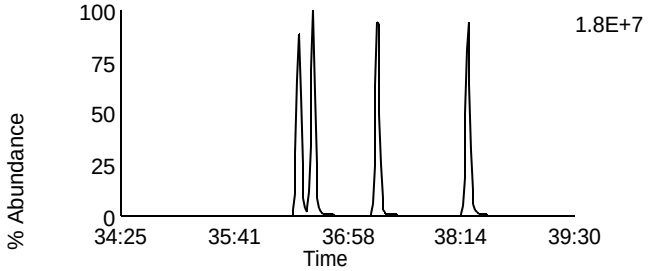
Data File: F131125C_05 G3 C2 - 375.8178
CAL CS5-7604-278 - BAL



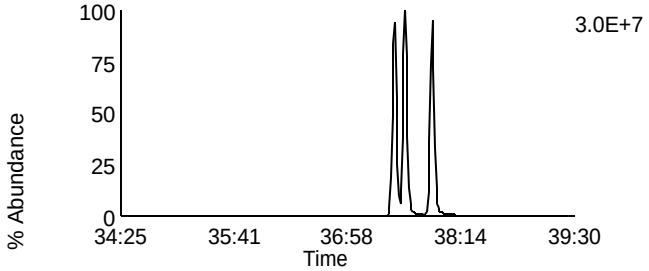
Data File: F131125C_05 G3 C8 - 391.8127
CAL CS5-7604-278 - BAL



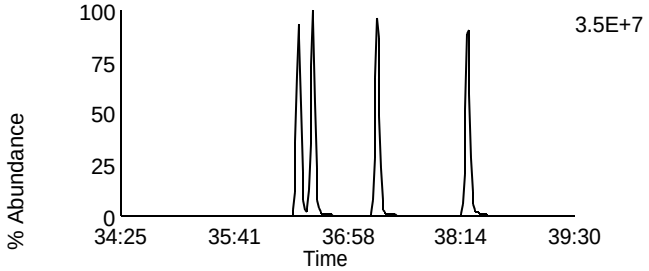
Data File: F131125C_05 G3 C5 - 383.8639
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G3 C9 - 401.8559
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G3 C6 - 385.861
CAL CS5-7604-278 - BAL



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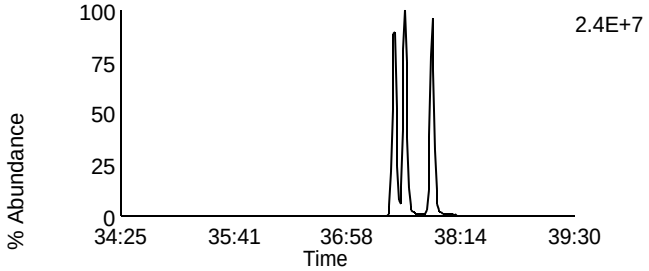
CAL CS5-7604-278 - BAL



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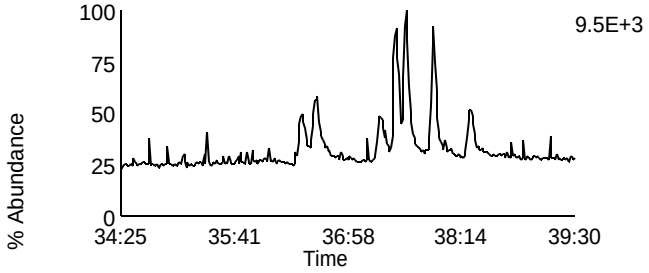
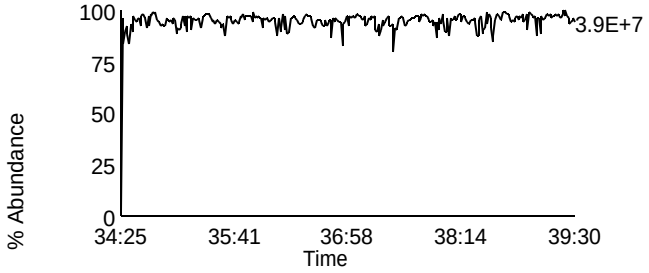
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G3 C3 - 380.976
CAL CS5-7604-278 - BAL

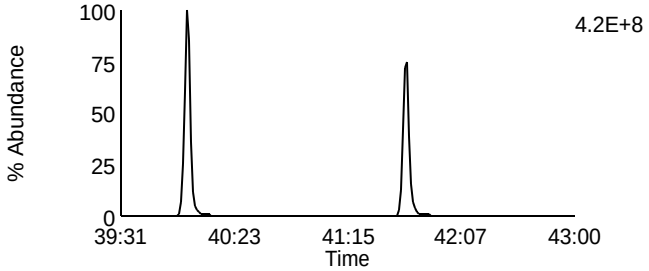


Homologue Group: Heptas

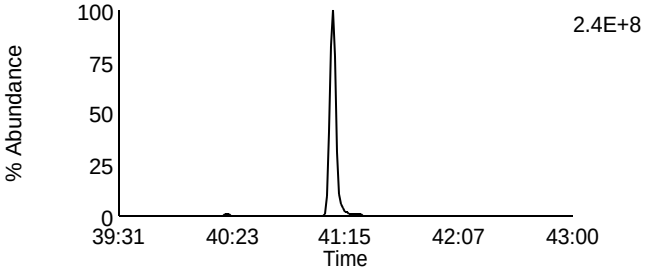
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131125C_05 G4 C3 - 407.7818
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C8 - 423.7767
CAL CS5-7604-278 - BAL



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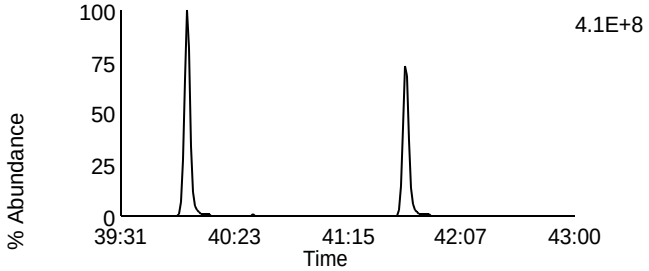
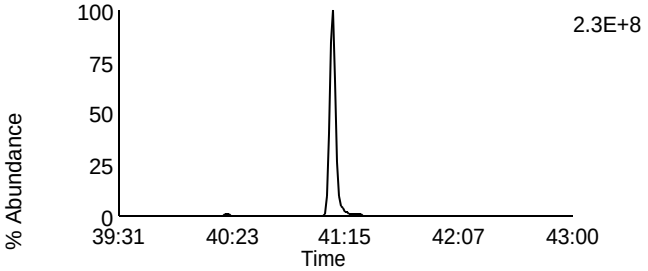
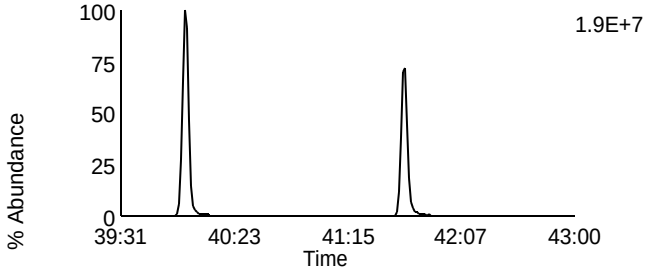
CAL CS5-7604-278 - BAL



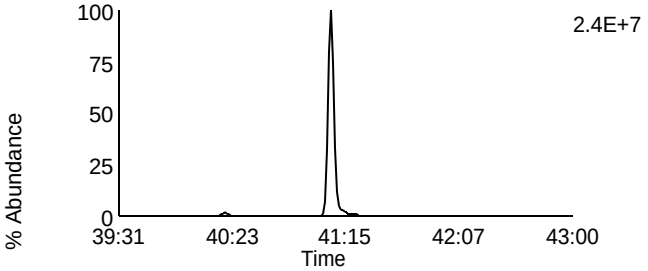
Data File: F131125C_05 G4 C9 - 425.7737
CAL CS5-7604-278 - BAL



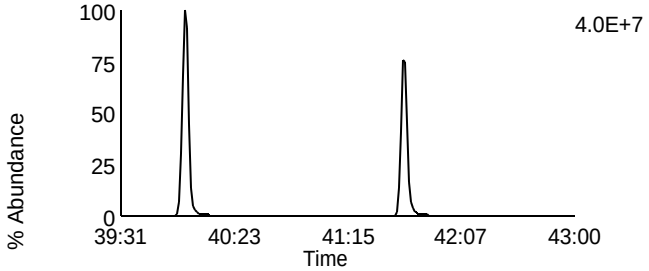
Data File: F131125C_05 G4 C6 - 417.825
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C11 - 435.8169
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C7 - 419.822
CAL CS5-7604-278 - BAL



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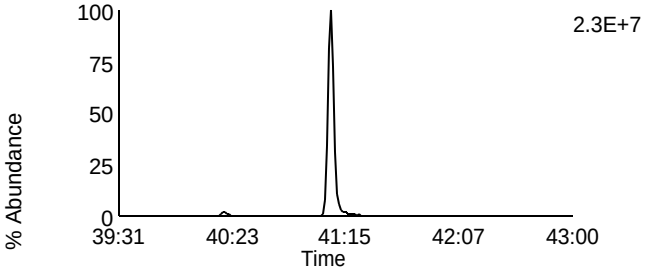
CAL CS5-7604-278 - BAL



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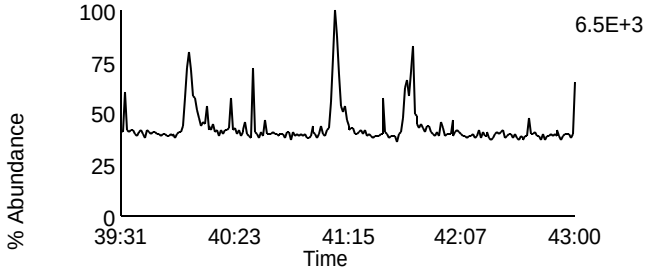
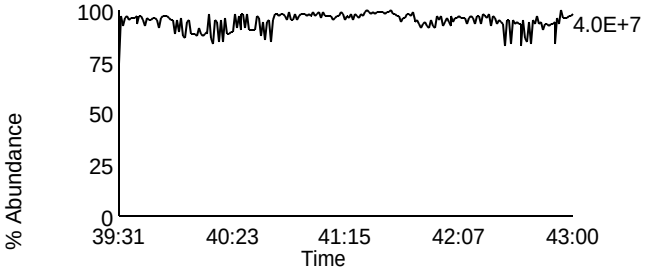
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C1 - 380.976
CAL CS5-7604-278 - BAL

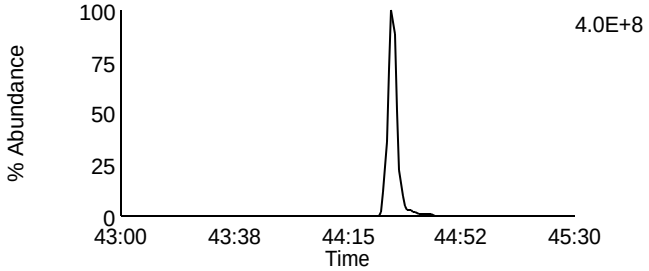


Homologue Group: Octas

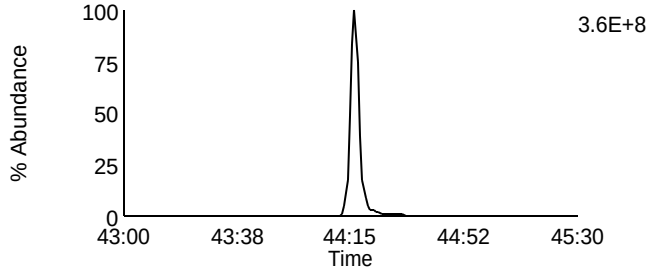
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

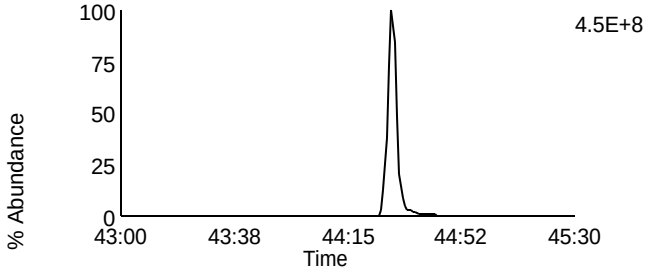
Data File: F131125C_05 G5 C4 - 441.7428
CAL CS5-7604-278 - BAL



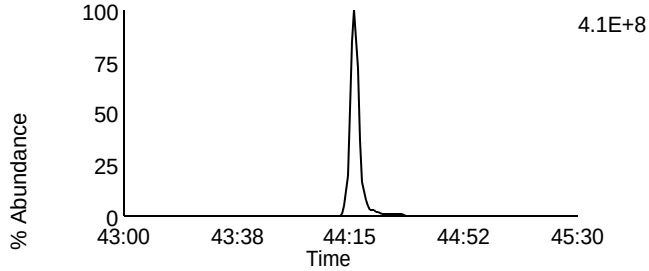
Data File: F131125C_05 G5 C8 - 457.7377
CAL CS5-7604-278 - BAL



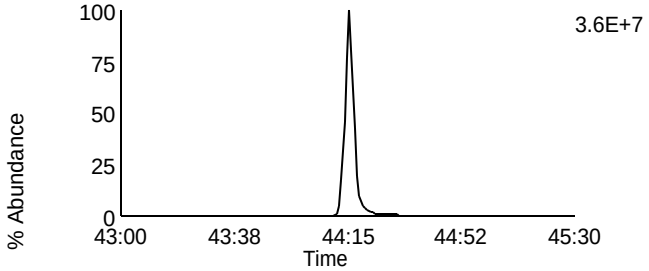
Data File: F131125C_05 G5 C5 - 443.7398
CAL CS5-7604-278 - BAL



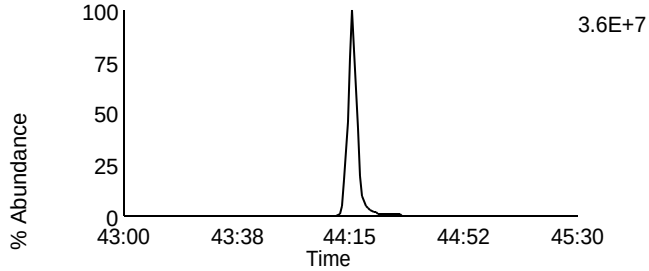
Data File: F131125C_05 G5 C9 - 459.7347
CAL CS5-7604-278 - BAL



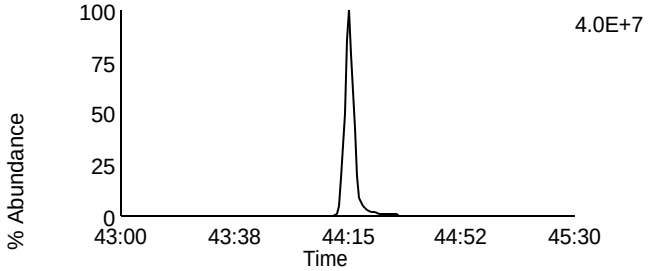
Data File: F131125C_05 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



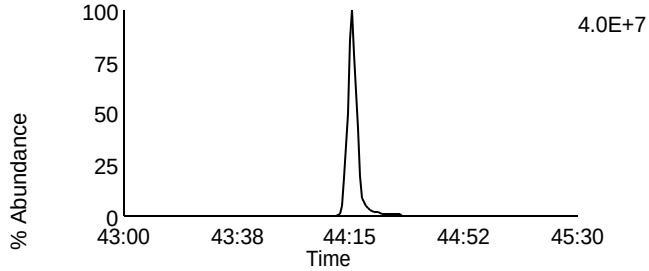
Data File: F131125C_05 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



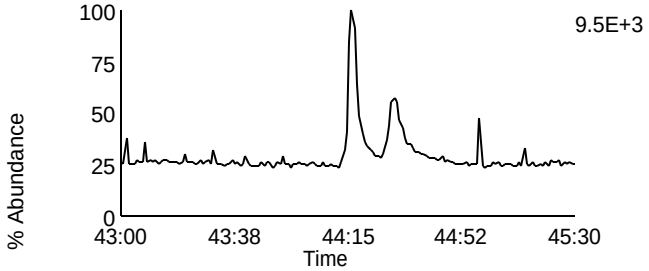
Data File: F131125C_05 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



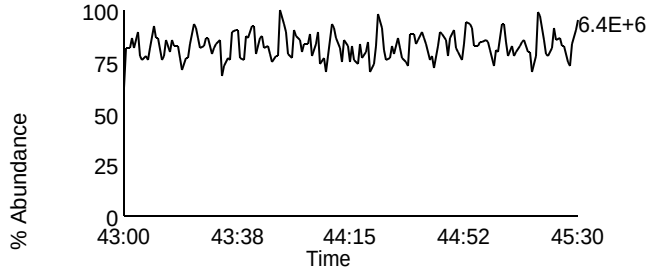
Data File: F131125C_05 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G5 C13 - 513.6775
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G5 C2 - 430.9728
CAL CS5-7604-278 - BAL

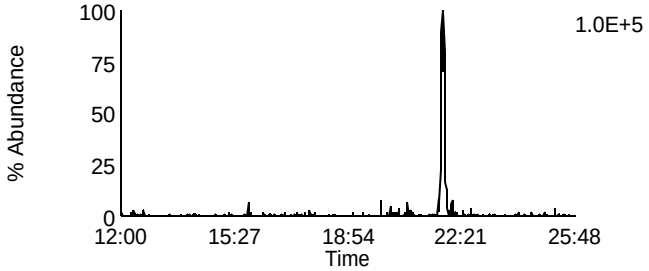


Homologue Group: Tetras

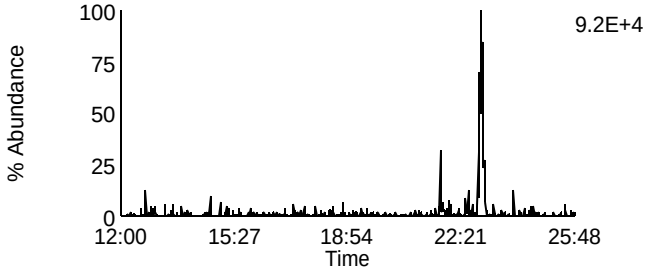
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

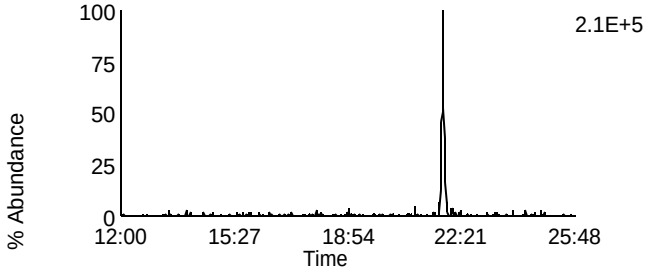
Data File: U140322B_06 G1 C1 - 303.9016
CAL CS1-7604-273 - BAL



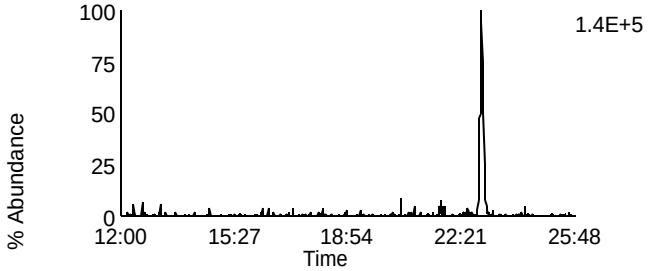
Data File: U140322B_06 G1 C7 - 319.8965
CAL CS1-7604-273 - BAL



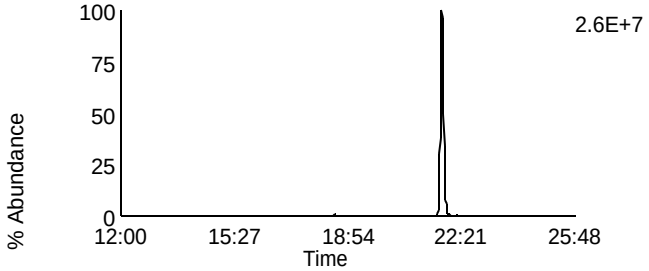
Data File: U140322B_06 G1 C2 - 305.8987
CAL CS1-7604-273 - BAL



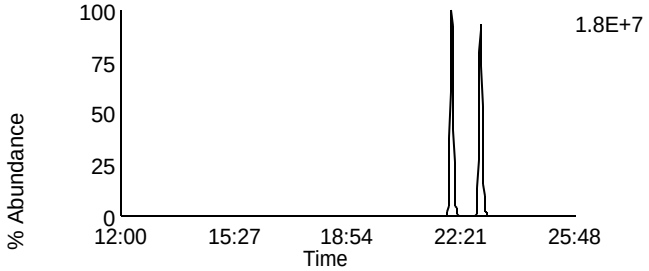
Data File: U140322B_06 G1 C8 - 321.8936
CAL CS1-7604-273 - BAL



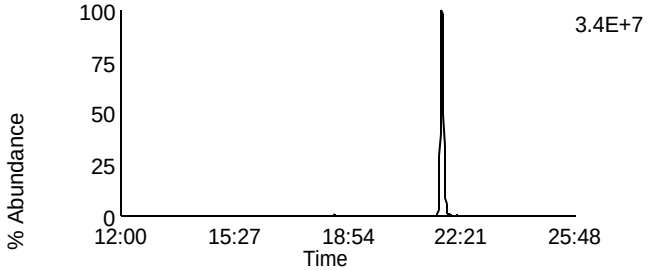
Data File: U140322B_06 G1 C3 - 315.9418
CAL CS1-7604-273 - BAL



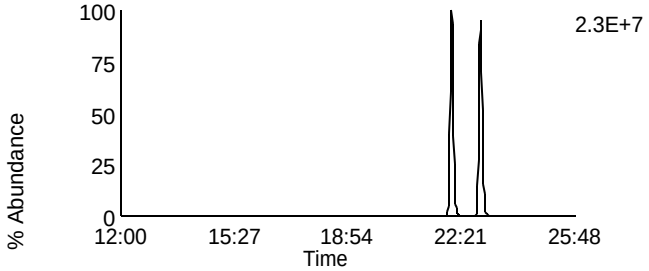
Data File: U140322B_06 G1 C10 - 331.9367
CAL CS1-7604-273 - BAL



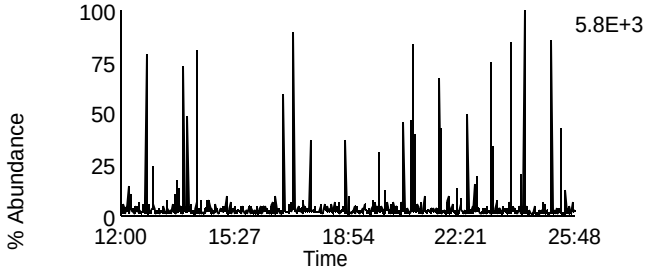
Data File: U140322B_06 G1 C4 - 317.9389
CAL CS1-7604-273 - BAL



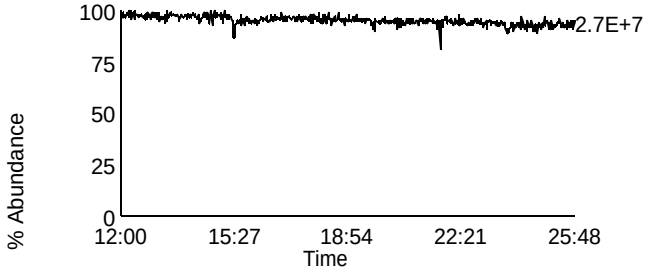
Data File: U140322B_06 G1 C11 - 333.9338
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C14 - 375.8364
CAL CS1-7604-273 - BAL



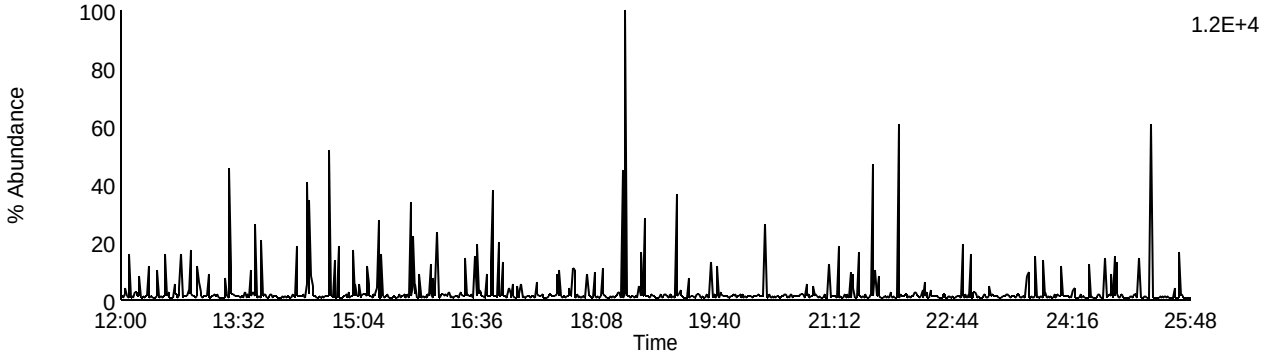
Data File: U140322B_06 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL



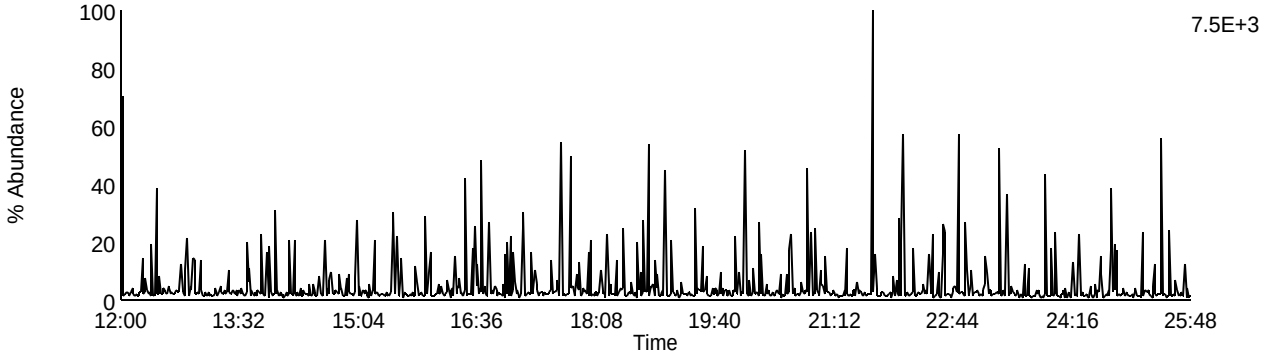
Homologue Group: Penta & Cleanup

Data File Name: U140322B_06	Lab Sample ID: CS1-7604-273
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS1-7604-273 - BAL	Instrument: 10MSHR06 (U)

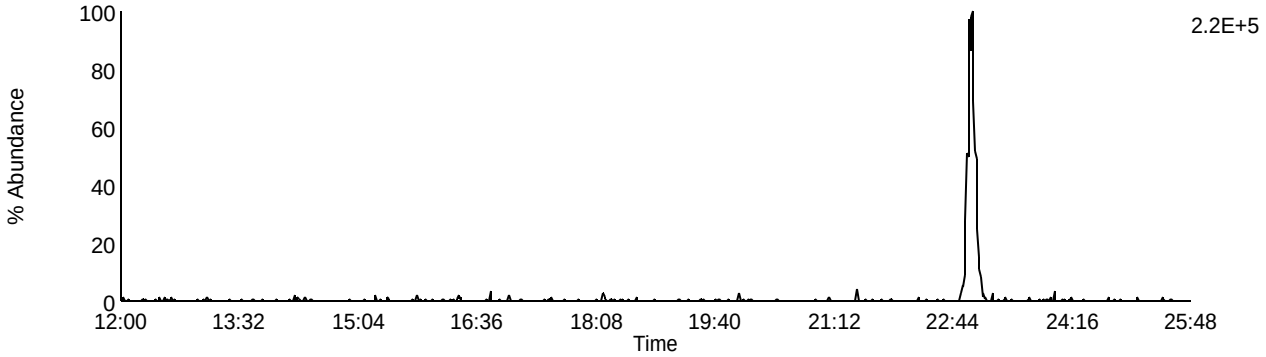
Data File: U140322B_06 G1 C12 - 339.8597
CAL CS1-7604-273 - BAL



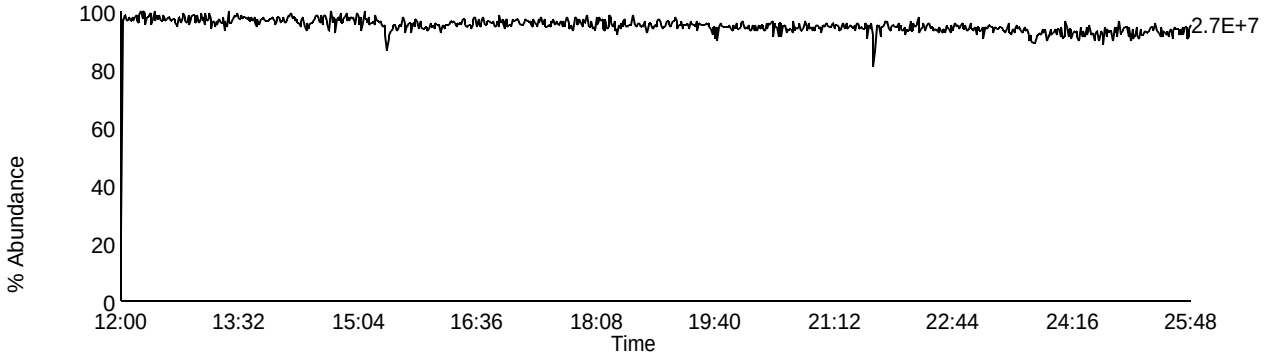
Data File: U140322B_06 G1 C13 - 341.8567
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C9 - 327.8847
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL

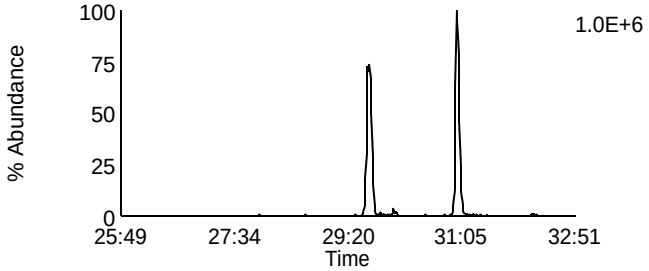


Homologue Group: Pentas

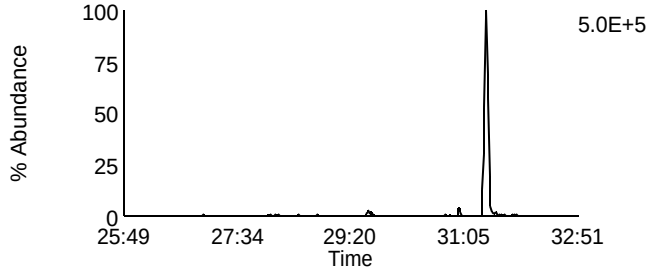
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

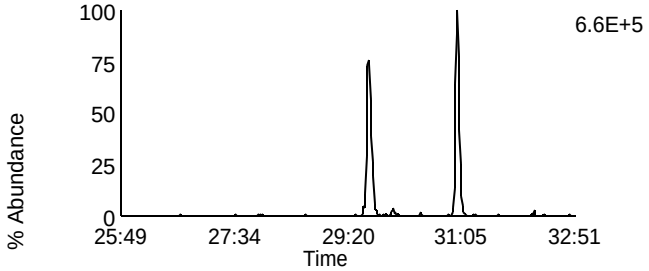
Data File: U140322B_06 G2 C1 - 339.8597
CAL CS1-7604-273 - BAL



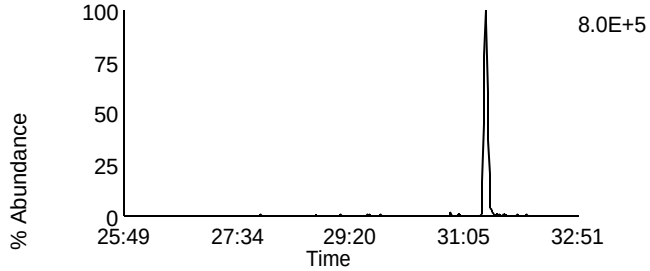
Data File: U140322B_06 G2 C4 - 353.8576
CAL CS1-7604-273 - BAL



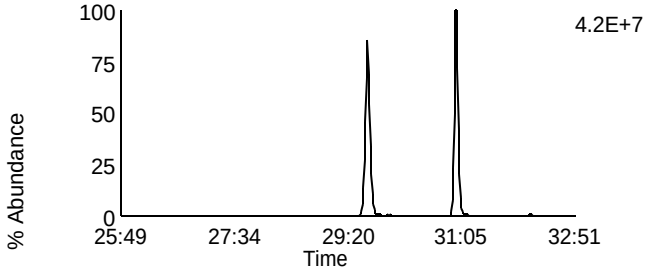
Data File: U140322B_06 G2 C2 - 341.8567
CAL CS1-7604-273 - BAL



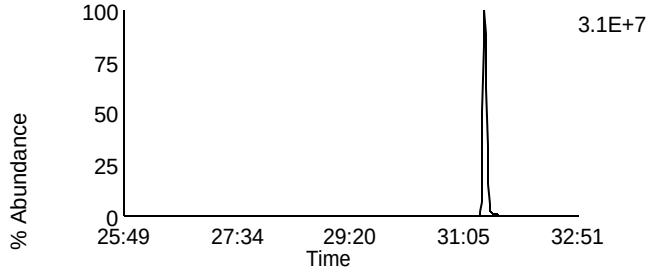
Data File: U140322B_06 G2 C8 - 355.8546
CAL CS1-7604-273 - BAL



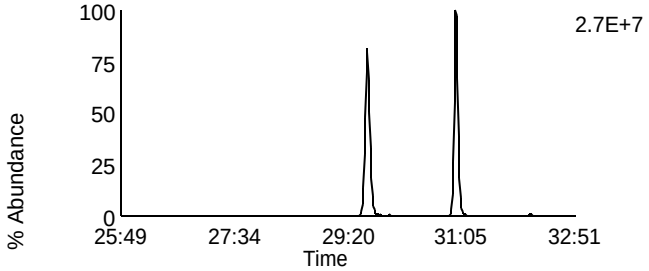
Data File: U140322B_06 G2 C3 - 351.8999
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G2 C10 - 367.8948
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G2 C5 - 353.8969
CAL CS1-7604-273 - BAL



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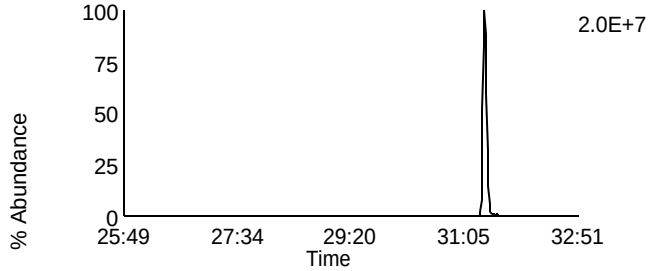
CAL CS1-7604-273 - BAL



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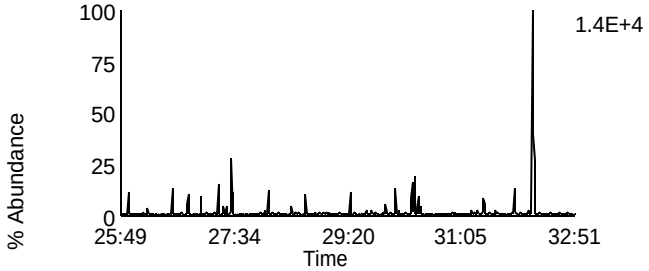
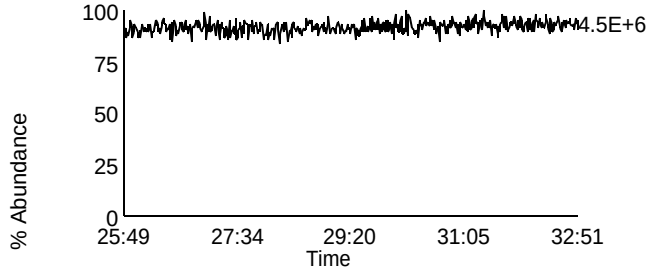
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G2 C6 - 354.9792
CAL CS1-7604-273 - BAL

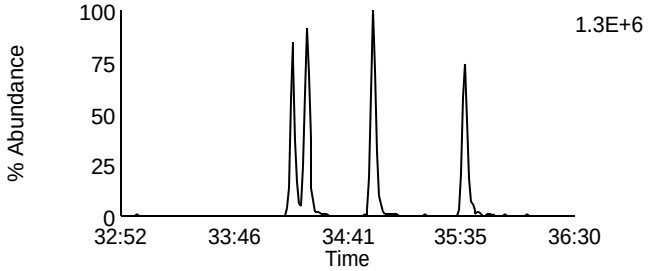


Homologue Group: Hexas

Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_06 G3 C1 - 373.8207
CAL CS1-7604-273 - BAL



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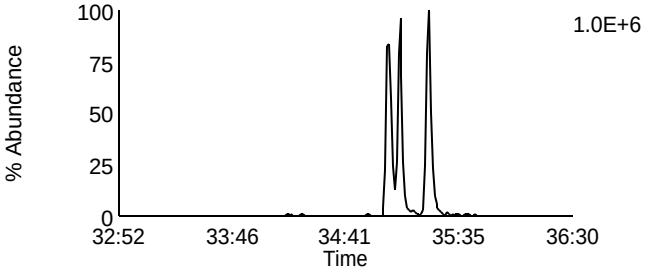
CAL CS1-7604-273 - BAL



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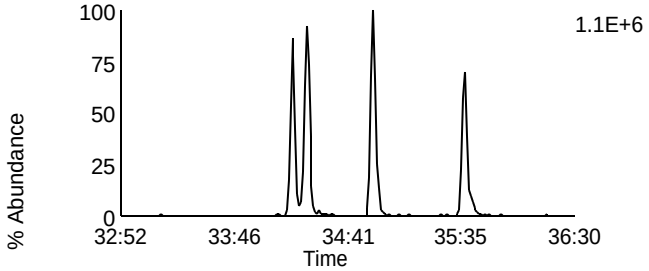
CAL CS1-7604-273 - BAL



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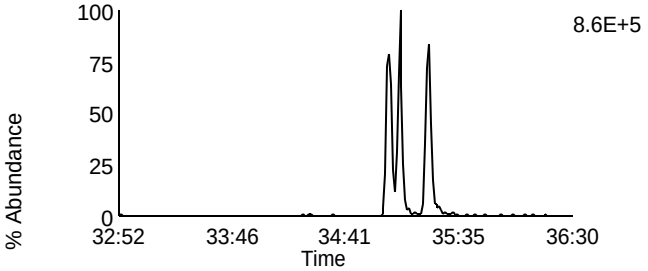
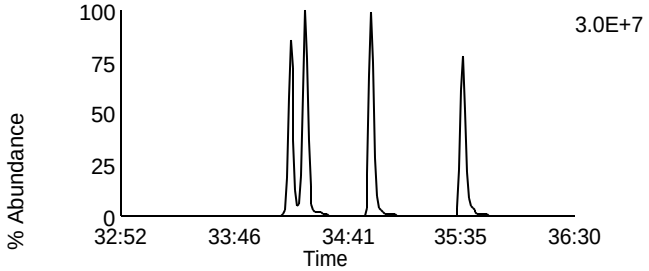
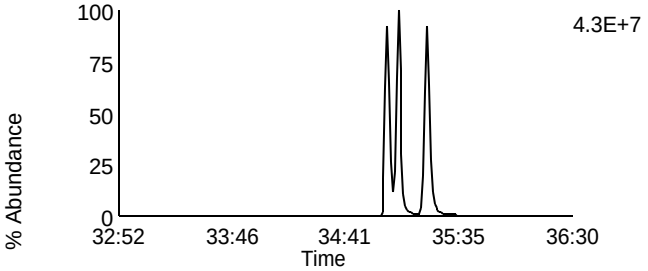
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C5 - 383.8639
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C9 - 401.8559
CAL CS1-7604-273 - BAL



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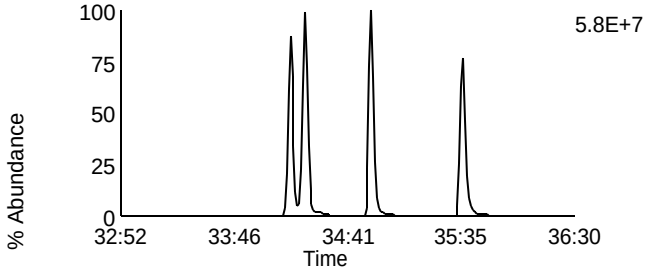
CAL CS1-7604-273 - BAL



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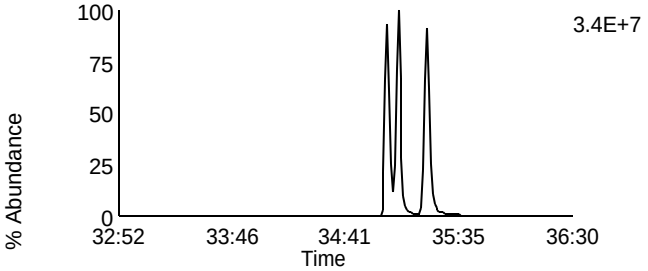
CAL CS1-7604-273 - BAL



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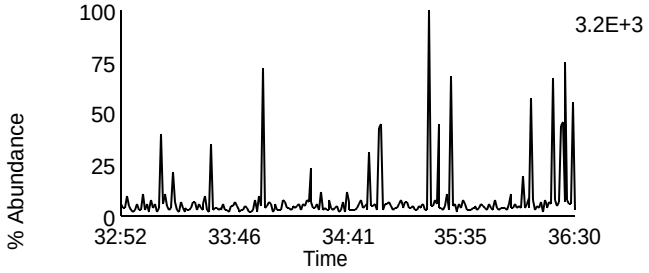
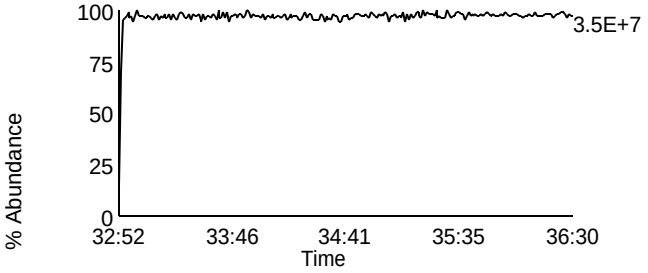
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C3 - 380.976
CAL CS1-7604-273 - BAL

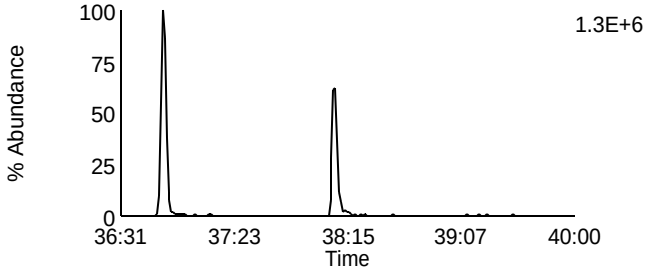


Homologue Group: Heptas

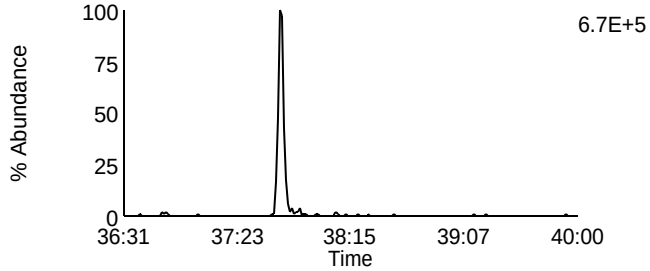
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_06 G4 C3 - 407.7818
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C8 - 423.7767
CAL CS1-7604-273 - BAL



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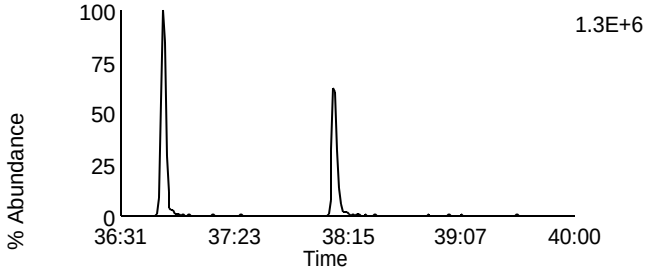
CAL CS1-7604-273 - BAL



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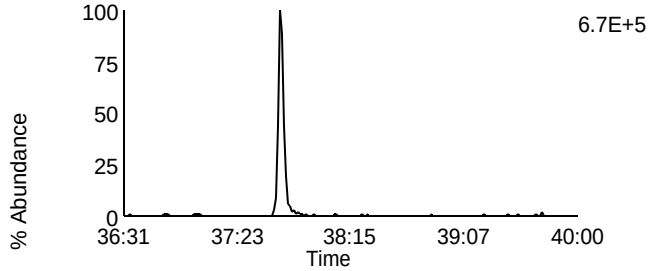
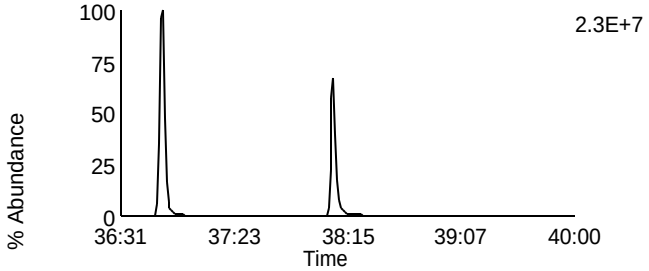
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C6 - 417.825
CAL CS1-7604-273 - BAL



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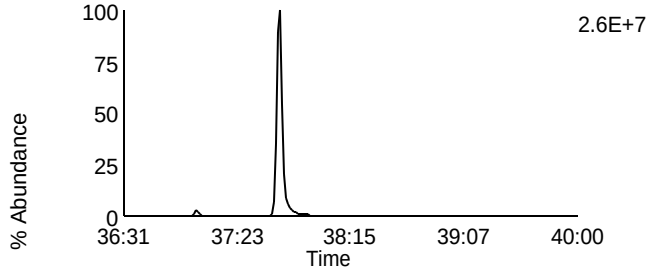
CAL CS1-7604-273 - BAL



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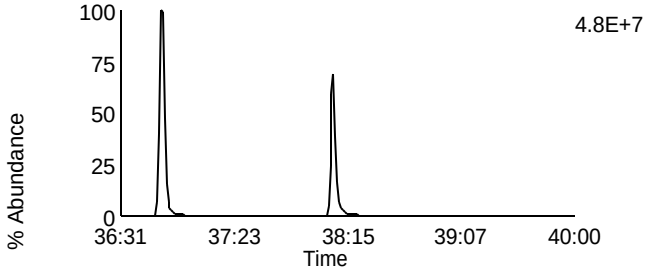
CAL CS1-7604-273 - BAL



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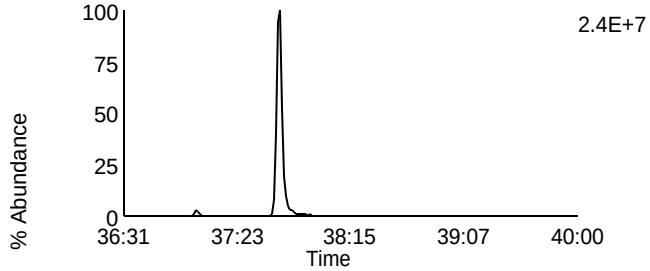
CAL CS1-7604-273 - BAL



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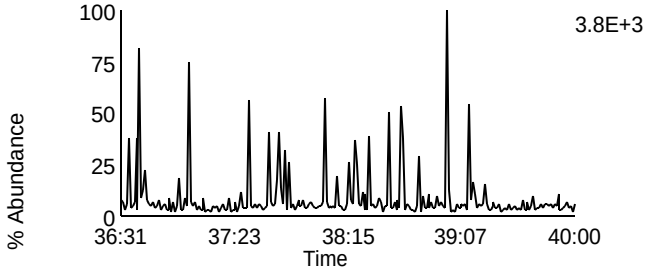
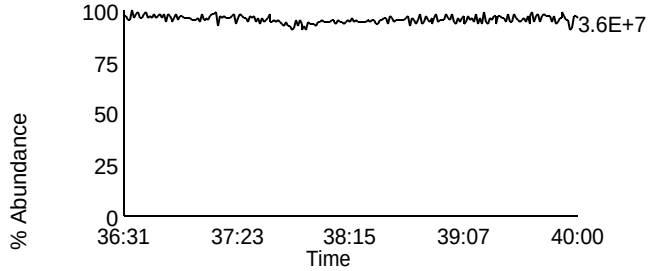
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C1 - 380.976
CAL CS1-7604-273 - BAL

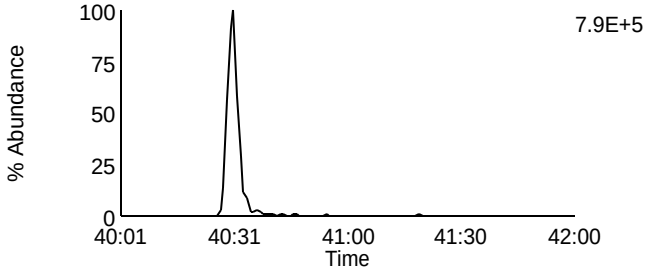


Homologue Group: Octas

Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_06 G5 C4 - 441.7428
CAL CS1-7604-273 - BAL



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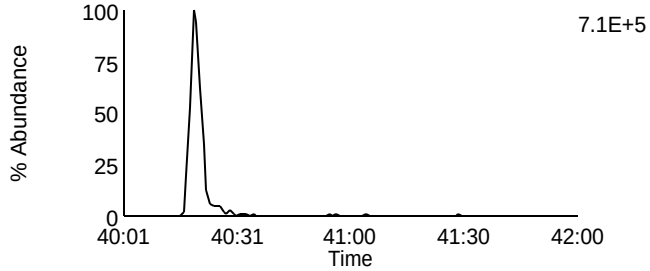
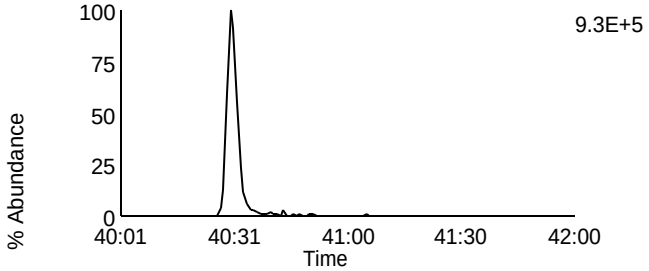
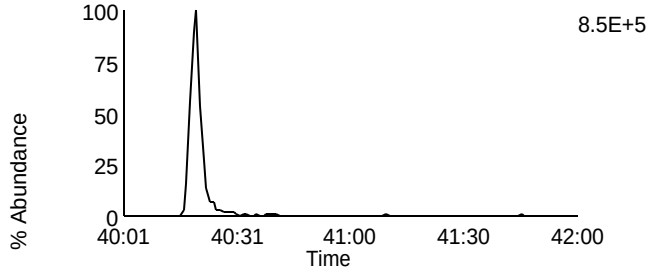
CAL CS1-7604-273 - BAL



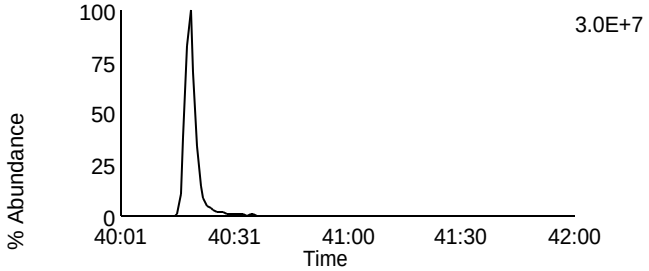
Data File: U140322B_06 G5 C5 - 443.7398
CAL CS1-7604-273 - BAL



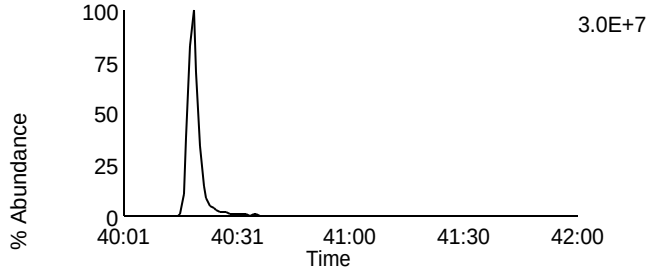
Data File: U140322B_06 G5 C9 - 459.7347
CAL CS1-7604-273 - BAL



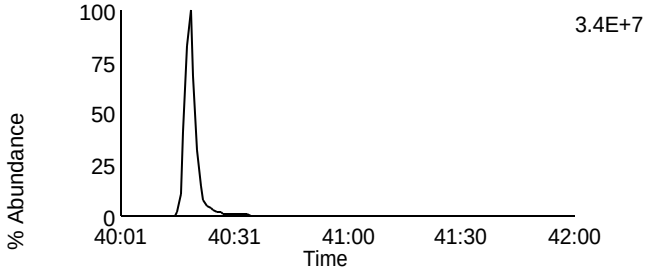
Data File: U140322B_06 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



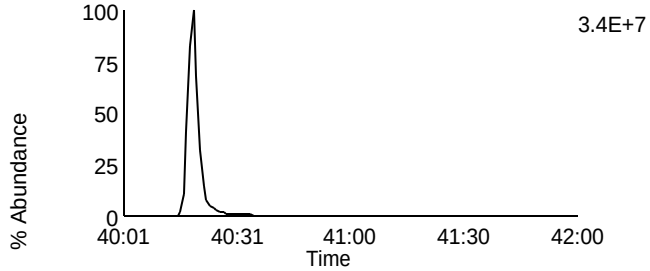
Data File: U140322B_06 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



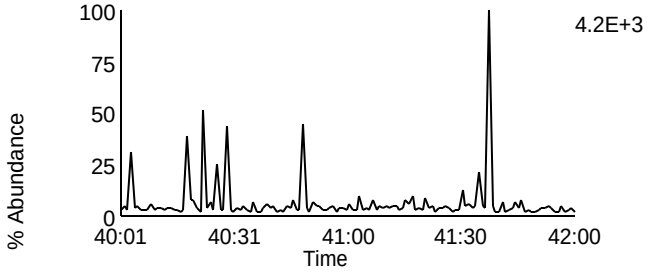
Data File: U140322B_06 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



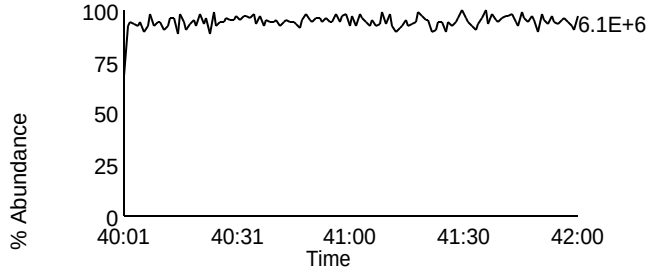
Data File: U140322B_06 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G5 C13 - 513.6775
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G5 C2 - 430.9728
CAL CS1-7604-273 - BAL

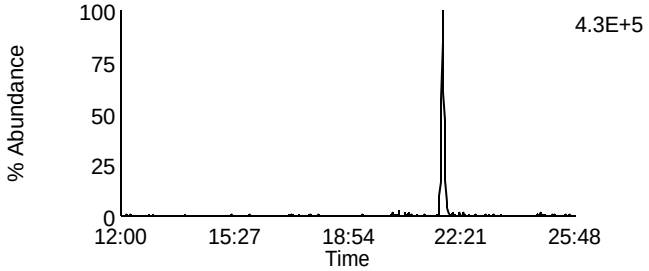


Homologue Group: Tetras

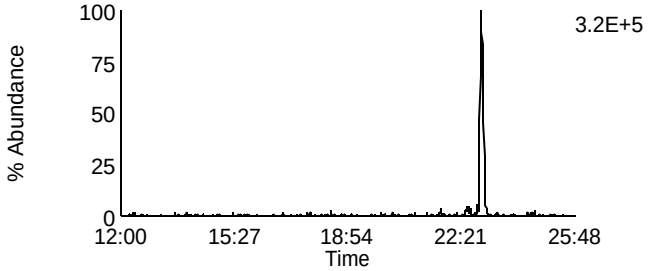
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

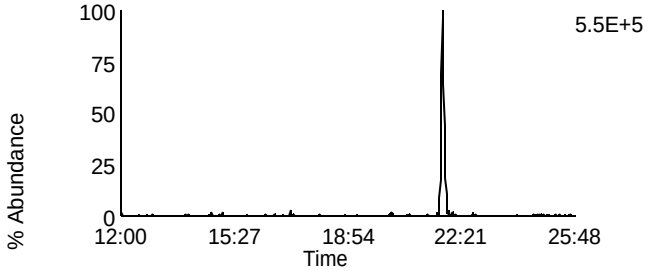
Data File: U140322B_05 G1 C1 - 303.9016
CAL CS2-7604-276 - BAL



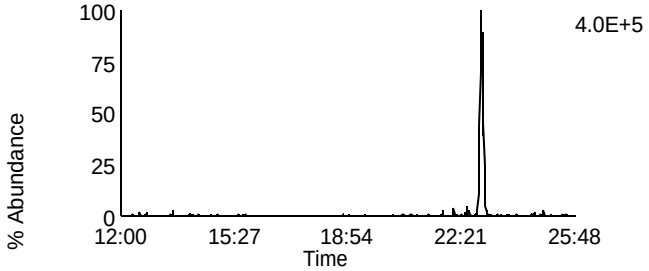
Data File: U140322B_05 G1 C7 - 319.8965
CAL CS2-7604-276 - BAL



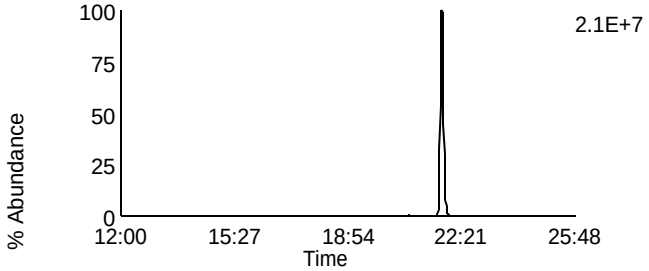
Data File: U140322B_05 G1 C2 - 305.8987
CAL CS2-7604-276 - BAL



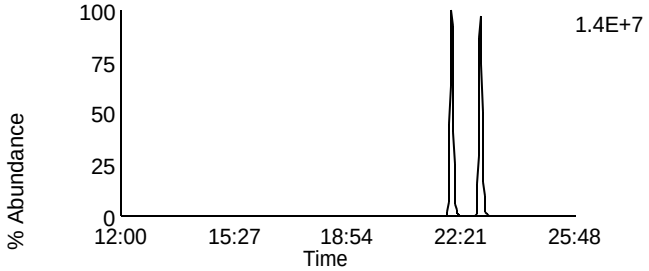
Data File: U140322B_05 G1 C8 - 321.8936
CAL CS2-7604-276 - BAL



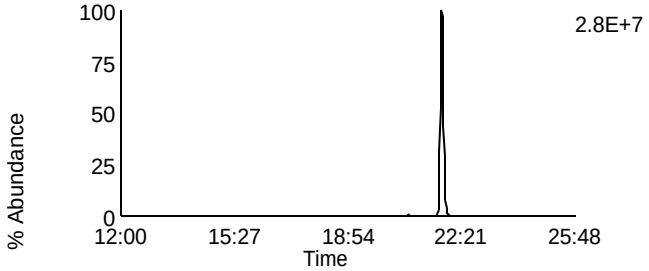
Data File: U140322B_05 G1 C3 - 315.9418
CAL CS2-7604-276 - BAL



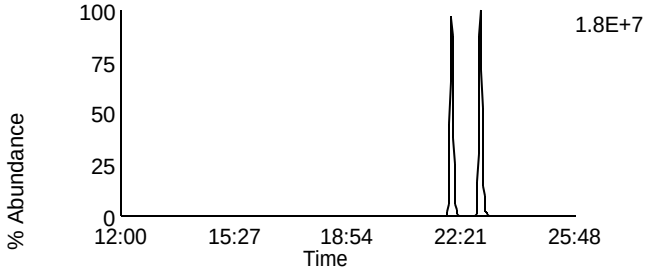
Data File: U140322B_05 G1 C10 - 331.9367
CAL CS2-7604-276 - BAL



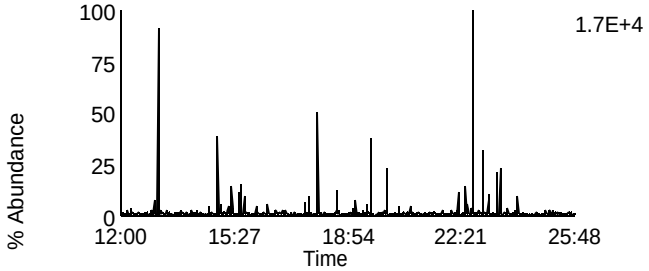
Data File: U140322B_05 G1 C4 - 317.9389
CAL CS2-7604-276 - BAL



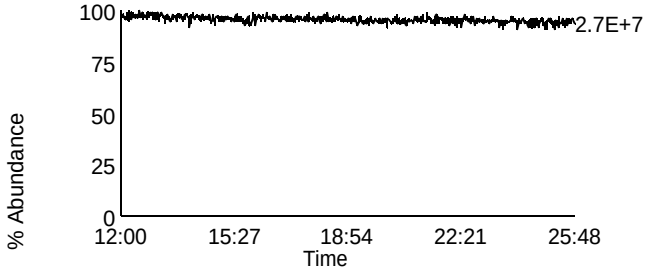
Data File: U140322B_05 G1 C11 - 333.9338
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C14 - 375.8364
CAL CS2-7604-276 - BAL



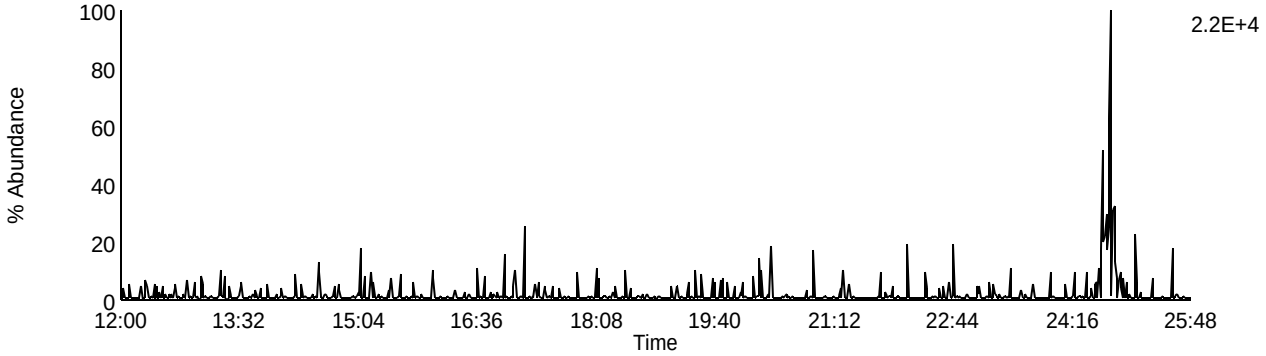
Data File: U140322B_05 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL



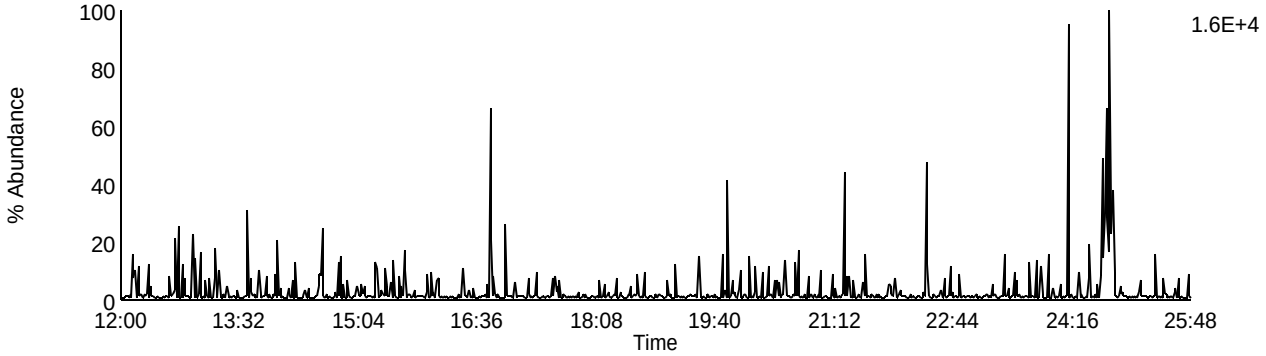
Homologue Group: Penta & Cleanup

Data File Name: U140322B_05	Lab Sample ID: CS2-7604-276
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS2-7604-276 - BAL	Instrument: 10MSHR06 (U)

Data File: U140322B_05 G1 C12 - 339.8597
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C13 - 341.8567
CAL CS2-7604-276 - BAL



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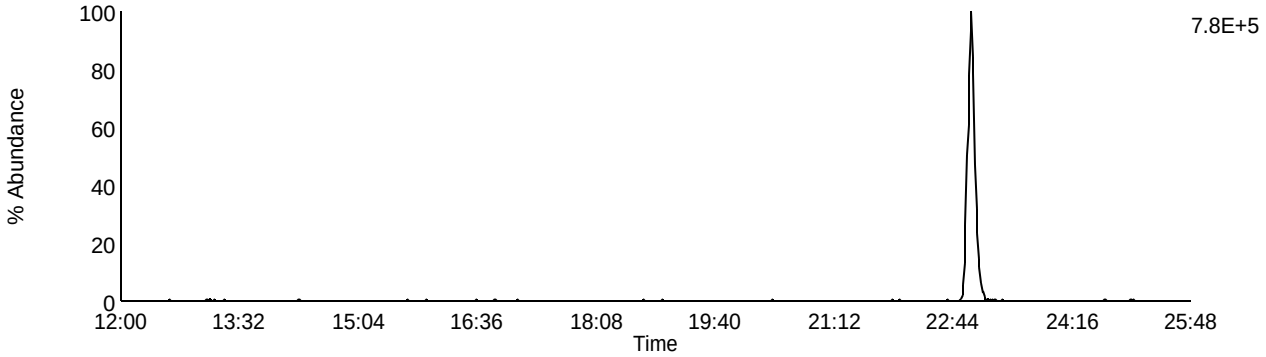
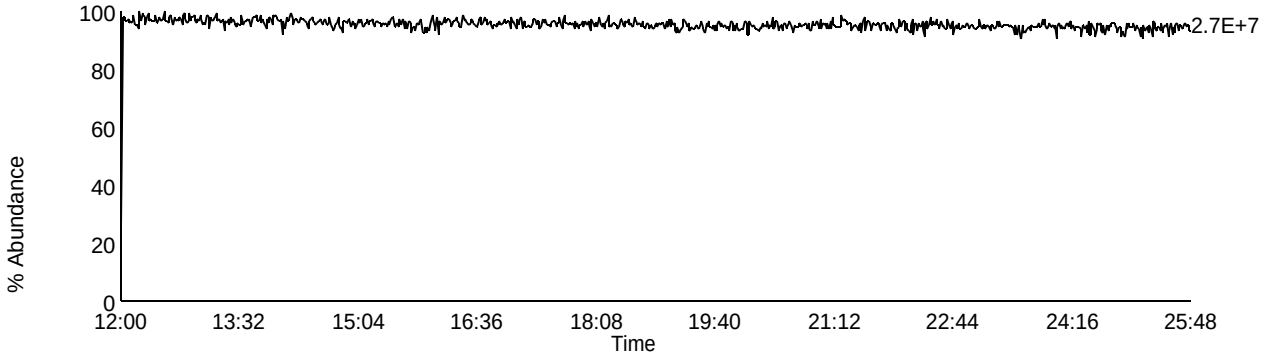
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL

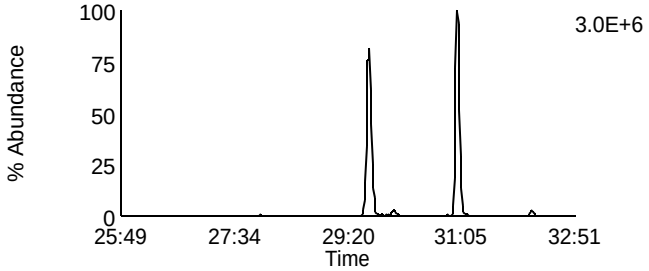


Homologue Group: Pentas

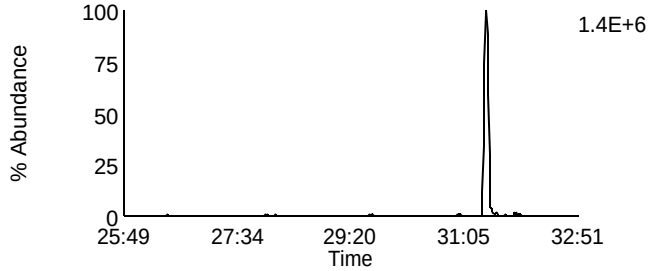
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_05 G2 C1 - 339.8597
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C4 - 353.8576
CAL CS2-7604-276 - BAL



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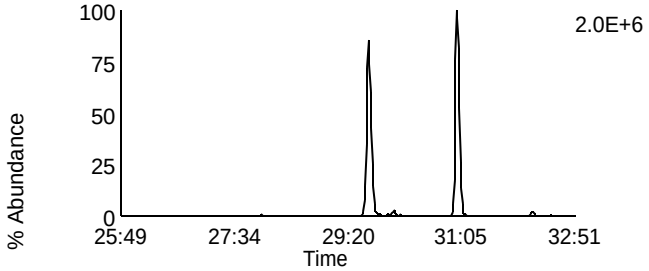
CAL CS2-7604-276 - BAL



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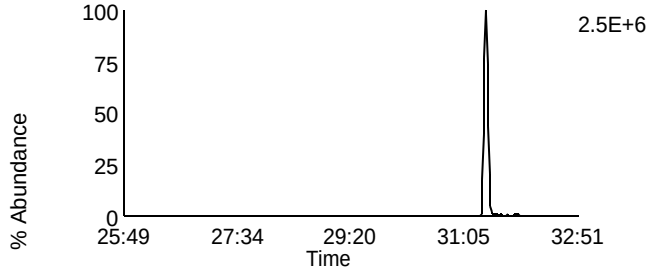
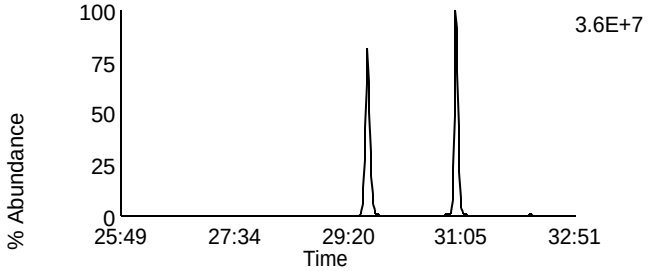
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C3 - 351.8999
CAL CS2-7604-276 - BAL



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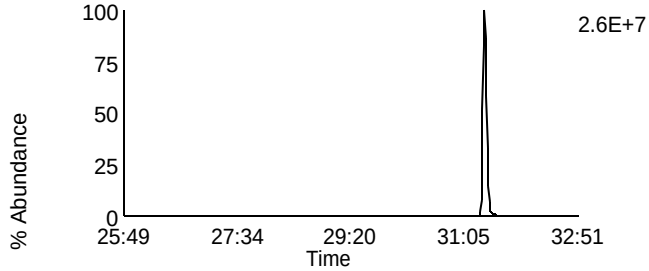
CAL CS2-7604-276 - BAL



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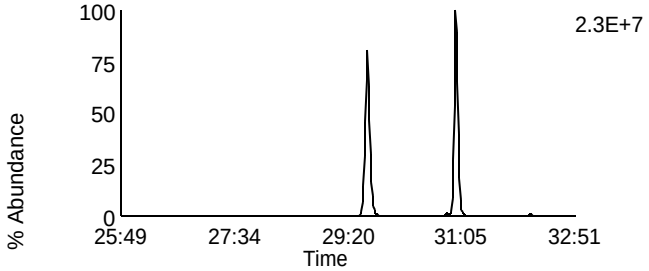
CAL CS2-7604-276 - BAL



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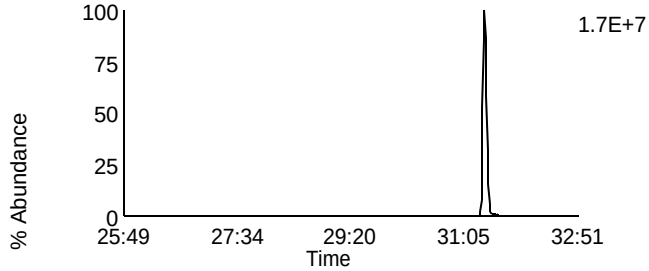
CAL CS2-7604-276 - BAL



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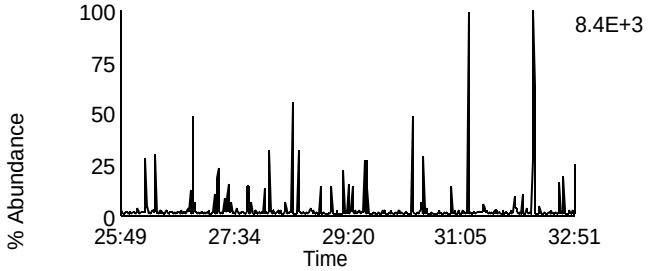
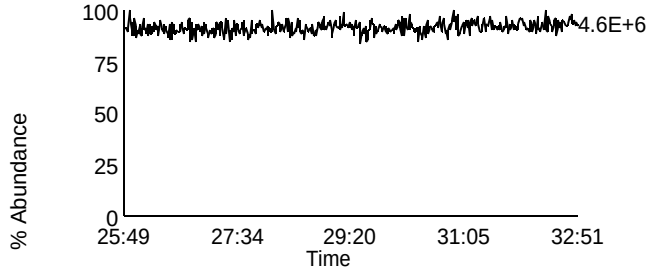
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C6 - 354.9792
CAL CS2-7604-276 - BAL

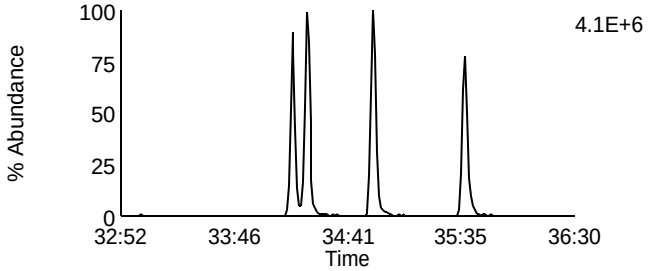


Homologue Group: Hexas

Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_05 G3 C1 - 373.8207
CAL CS2-7604-276 - BAL



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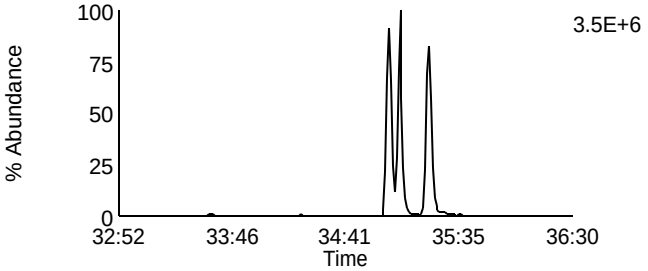
CAL CS2-7604-276 - BAL



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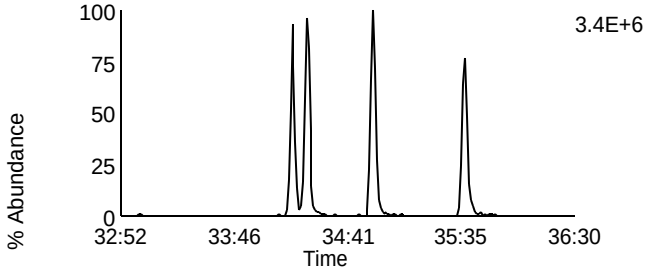
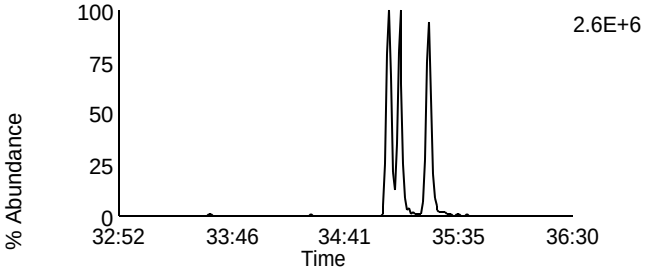
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C8 - 391.8127
CAL CS2-7604-276 - BAL



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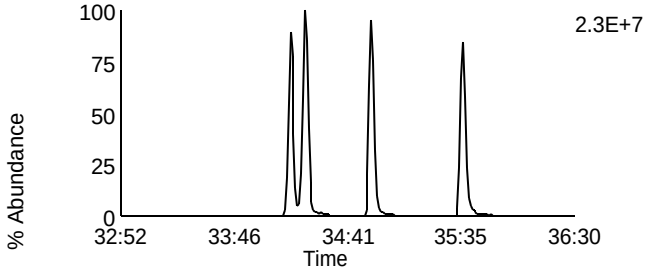
CAL CS2-7604-276 - BAL



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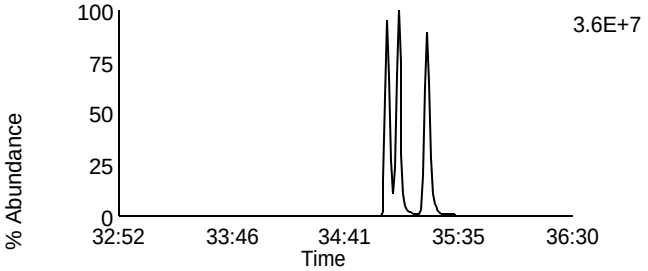
CAL CS2-7604-276 - BAL



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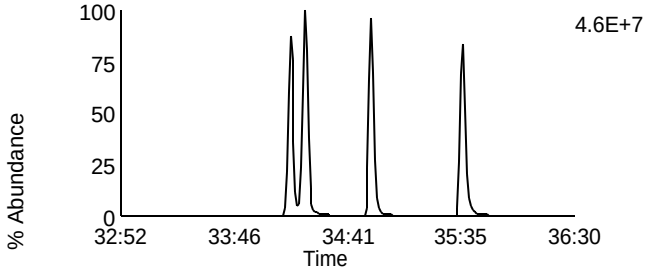
CAL CS2-7604-276 - BAL



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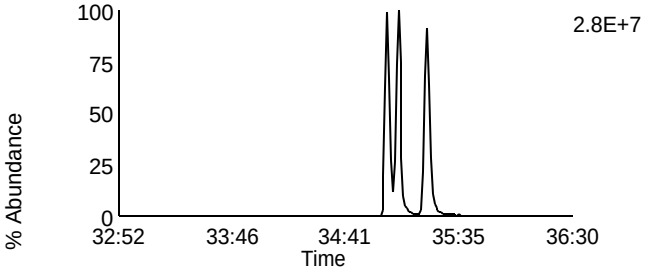
CAL CS2-7604-276 - BAL



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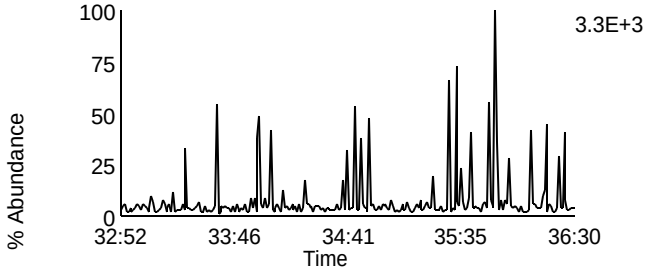
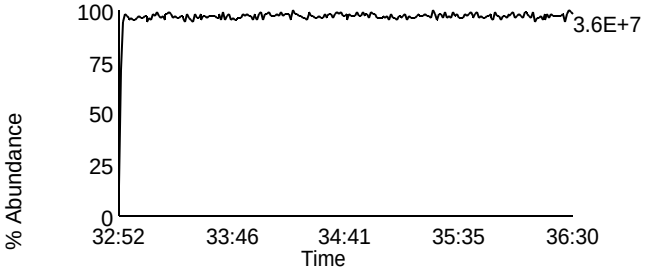
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C3 - 380.976
CAL CS2-7604-276 - BAL

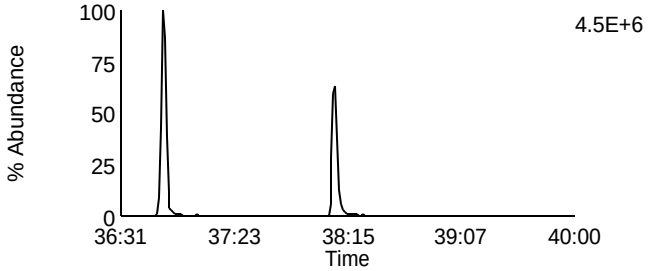


Homologue Group: Heptas

Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_05 G4 C3 - 407.7818
CAL CS2-7604-276 - BAL



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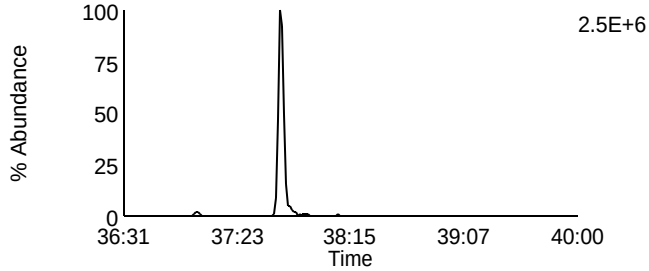
CAL CS2-7604-276 - BAL



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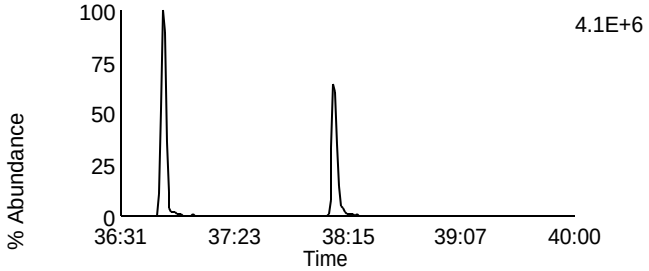
CAL CS2-7604-276 - BAL



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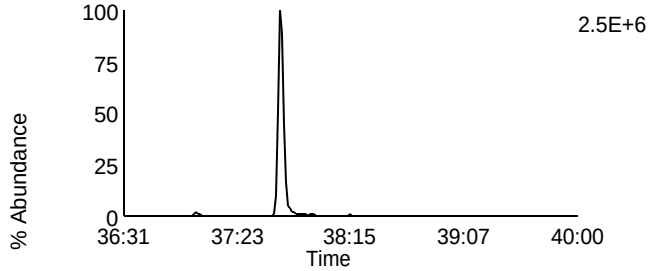
CAL CS2-7604-276 - BAL



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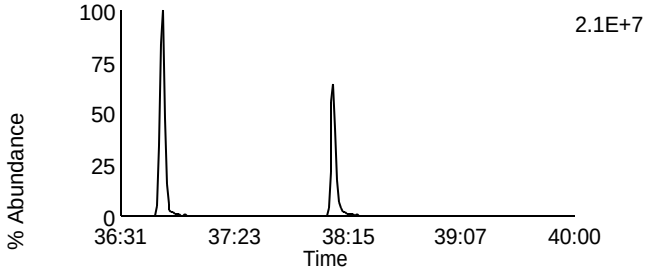
CAL CS2-7604-276 - BAL



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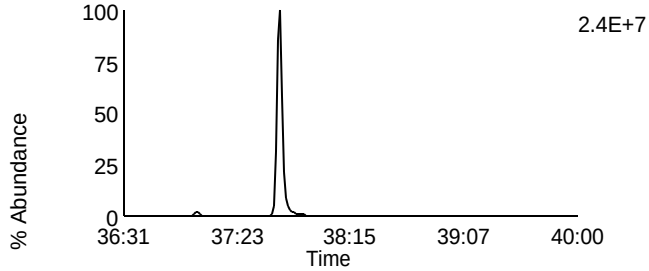
CAL CS2-7604-276 - BAL



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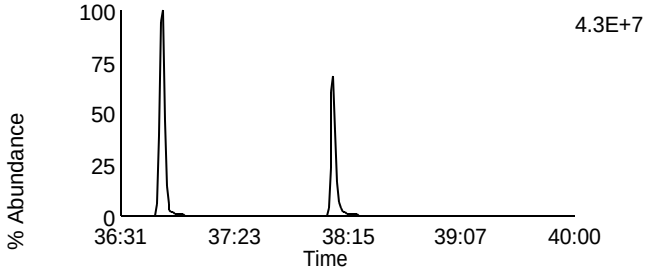
CAL CS2-7604-276 - BAL



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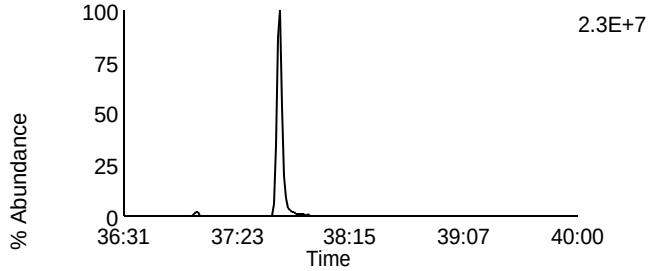
CAL CS2-7604-276 - BAL



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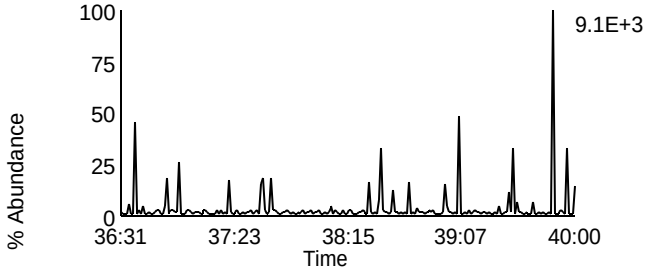
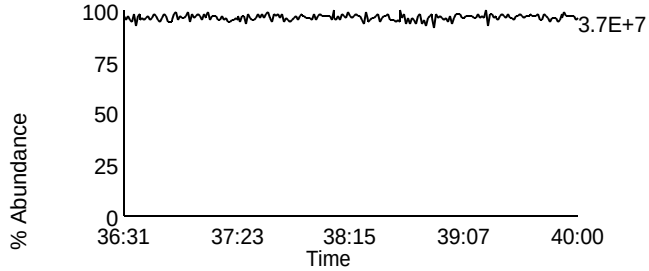
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G4 C1 - 380.976
CAL CS2-7604-276 - BAL

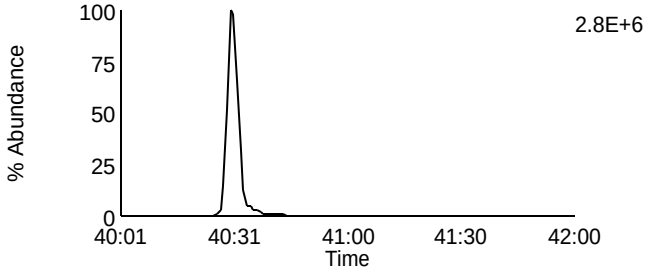


Homologue Group: Octas

Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_05 G5 C4 - 441.7428
CAL CS2-7604-276 - BAL



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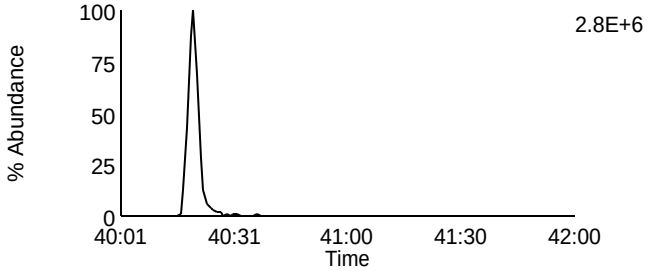
CAL CS2-7604-276 - BAL



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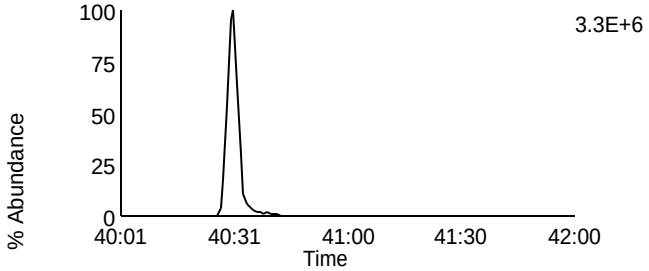
CAL CS2-7604-276 - BAL



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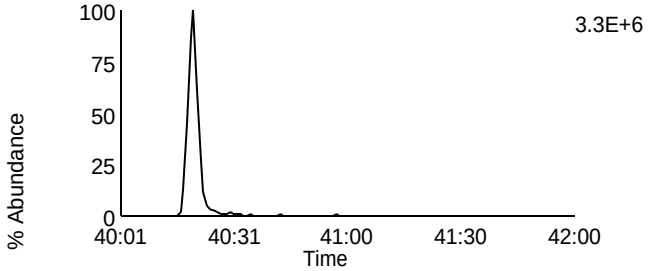
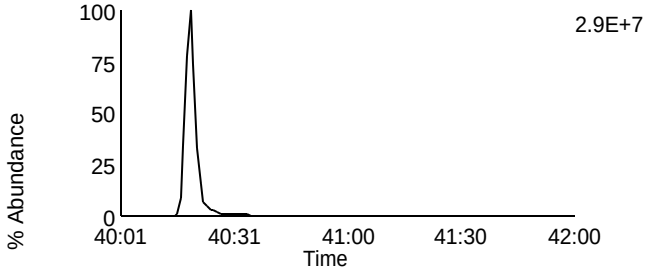
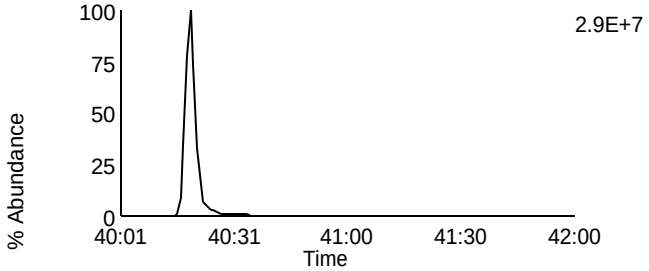
CAL CS2-7604-276 - BAL



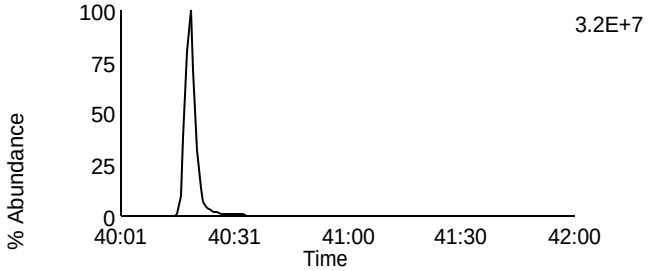
Data File: U140322B_05 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



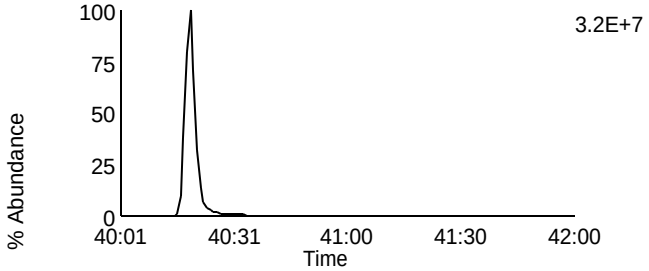
Data File: U140322B_05 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



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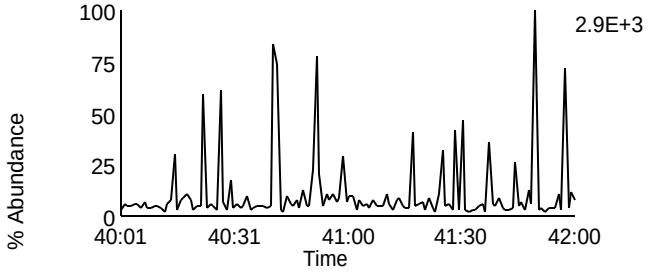
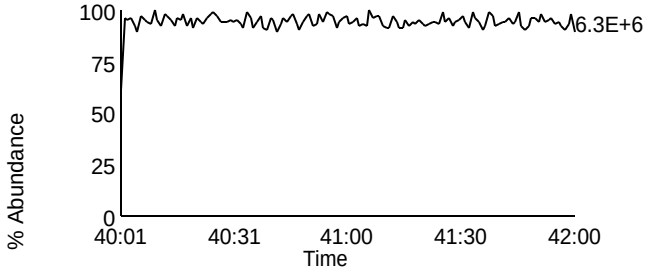
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C2 - 430.9728
CAL CS2-7604-276 - BAL

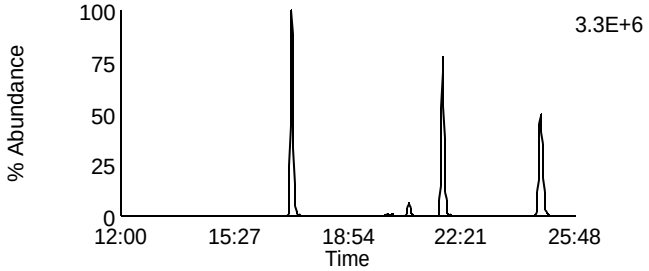


Homologue Group: Tetras

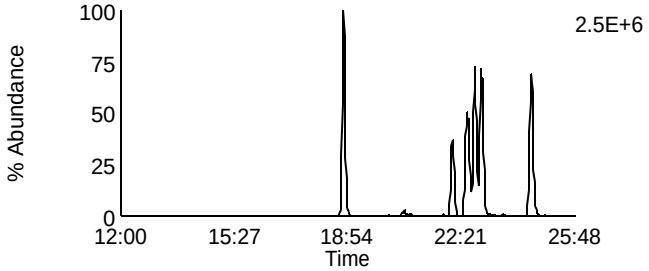
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

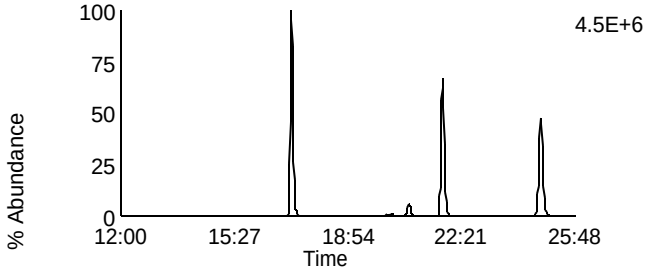
Data File: U140322B_04 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL



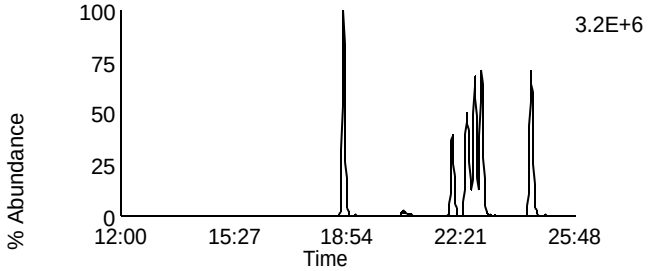
Data File: U140322B_04 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL



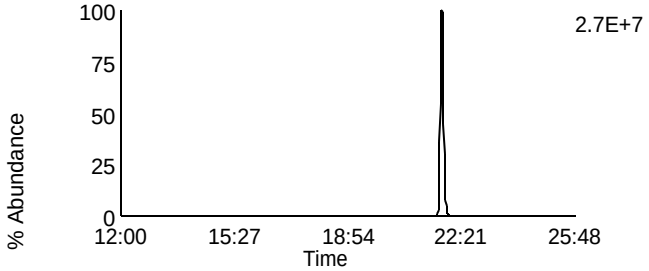
Data File: U140322B_04 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL



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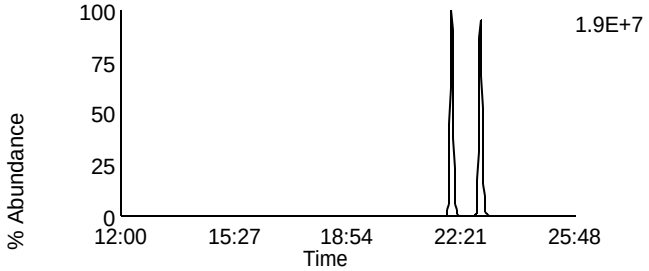
CAL CS3/CPM-7604-301 - BAL



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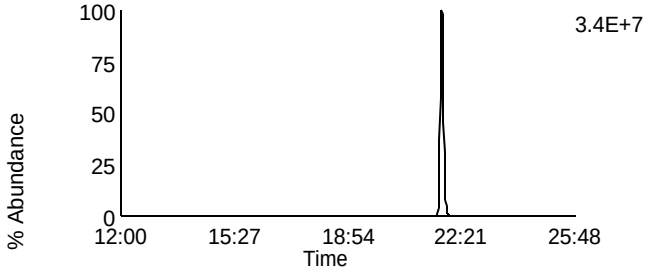
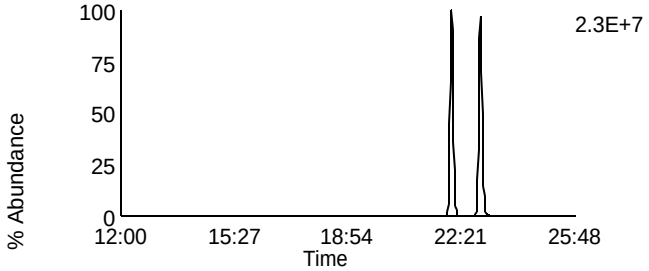
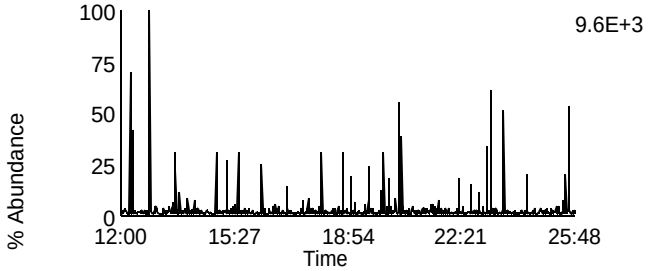
CAL CS3/CPM-7604-301 - BAL



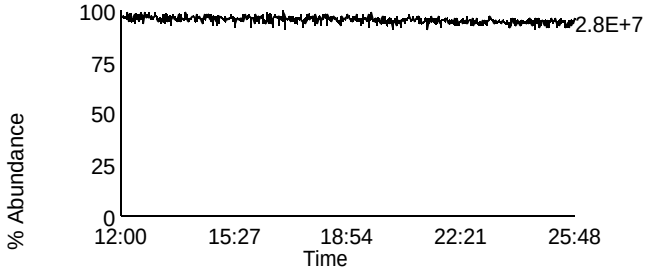
Data File: U140322B_04 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

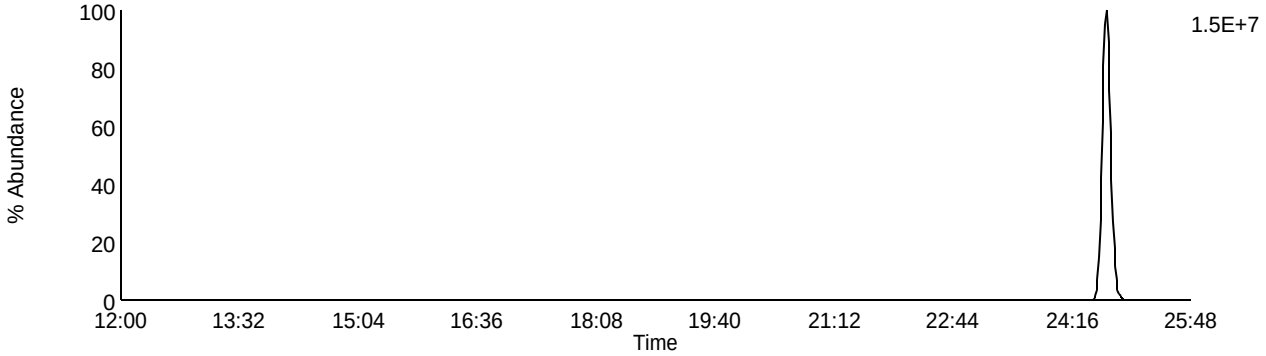


Homologue Group: Penta & Cleanup

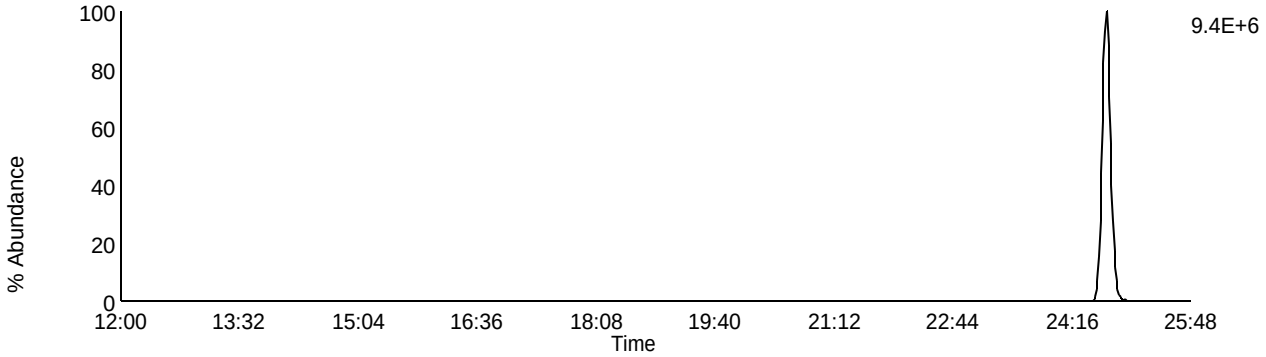
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

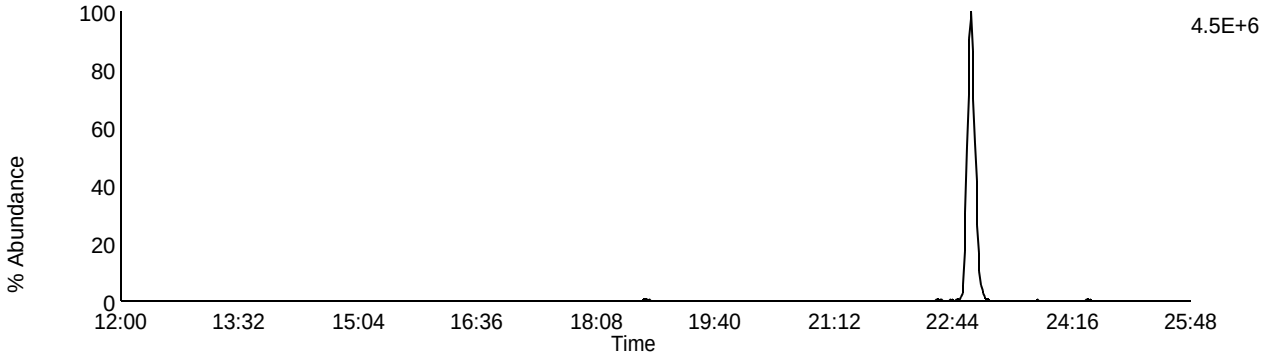
Data File: U140322B_04 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL



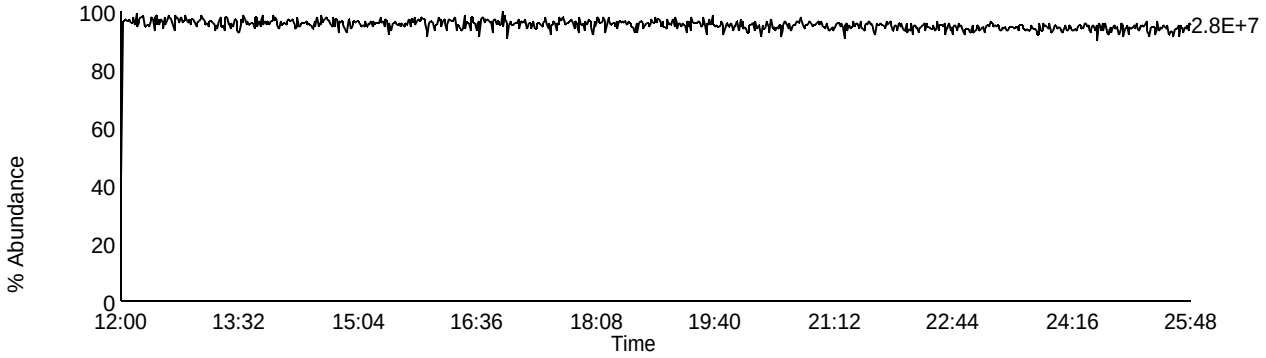
Data File: U140322B_04 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

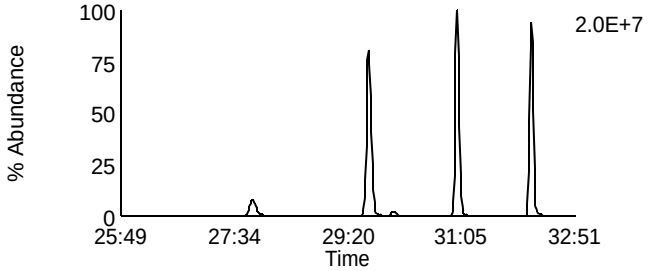


Homologue Group: Pentas

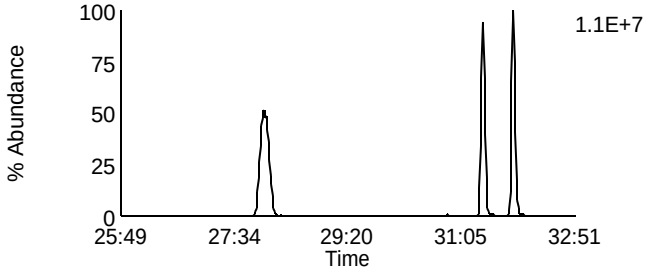
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

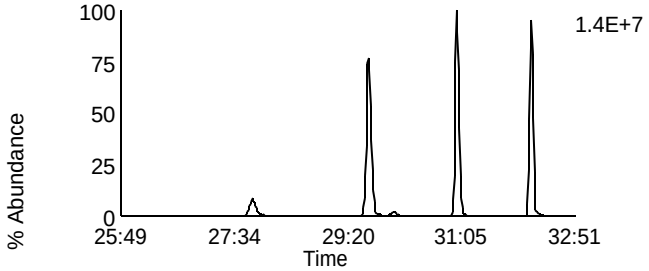
Data File: U140322B_04 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL



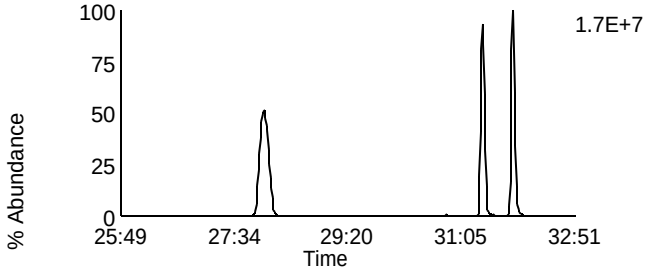
Data File: U140322B_04 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL



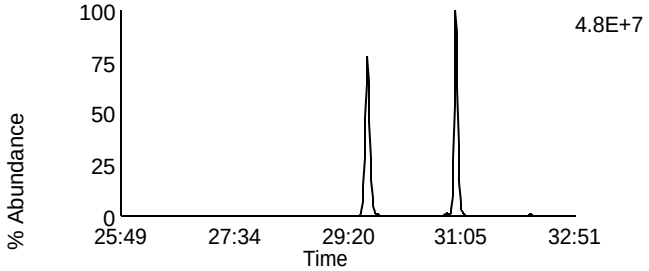
Data File: U140322B_04 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL



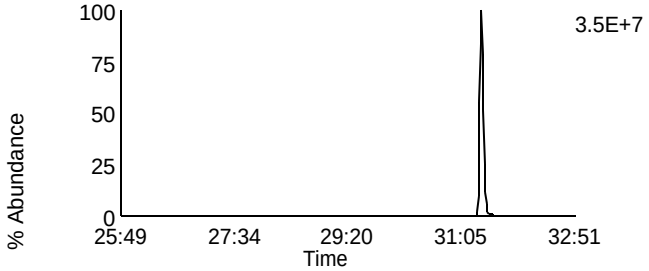
Data File: U140322B_04 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL



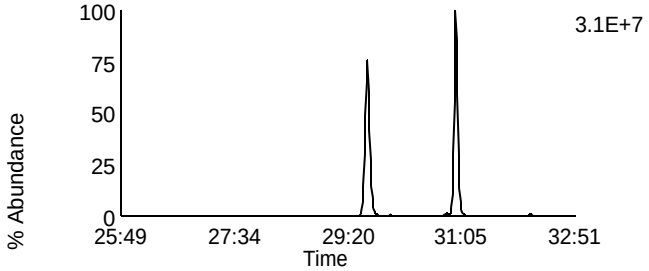
Data File: U140322B_04 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL



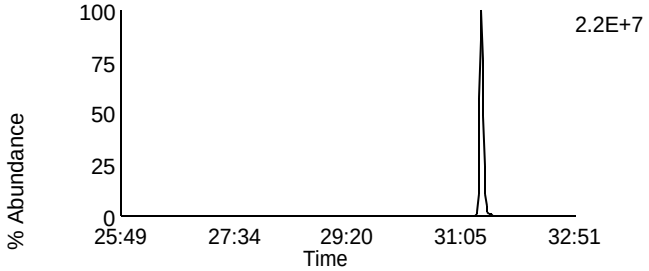
Data File: U140322B_04 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL



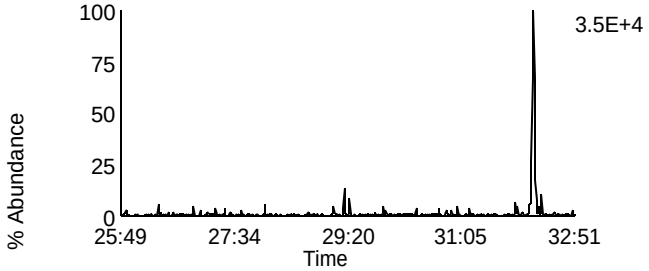
Data File: U140322B_04 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL



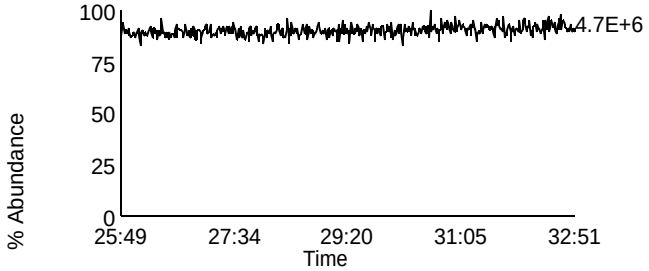
Data File: U140322B_04 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL

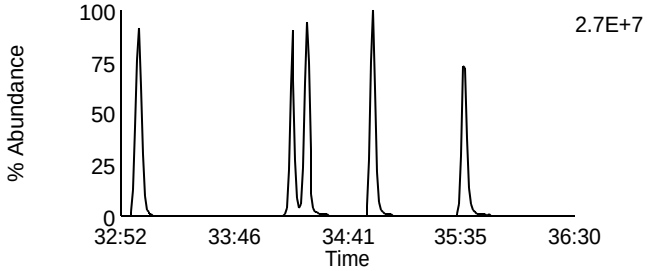


Homologue Group: Hexas

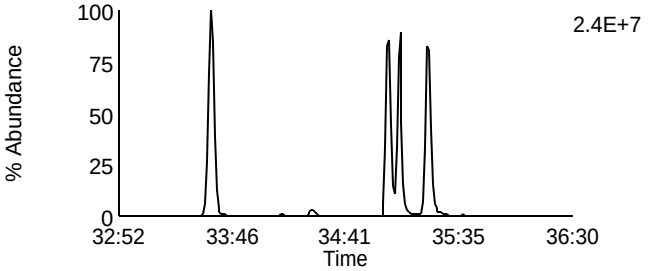
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

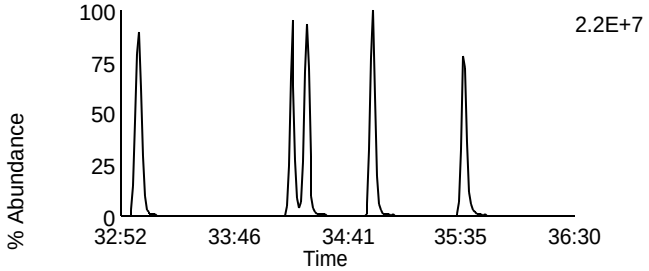
Data File: U140322B_04 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL



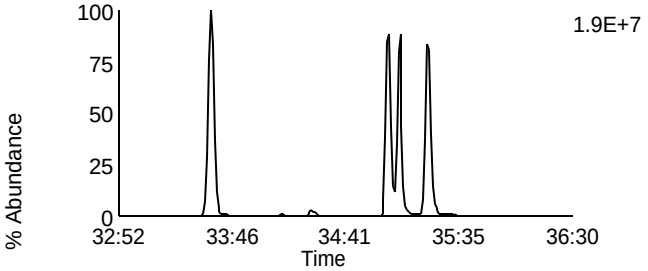
Data File: U140322B_04 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL



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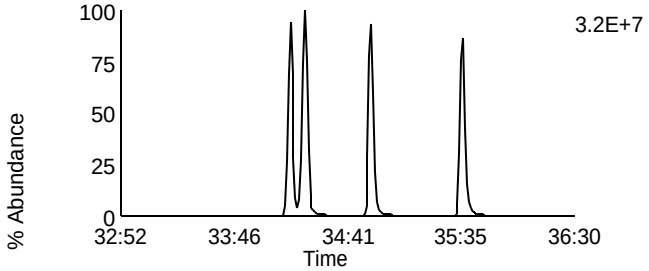
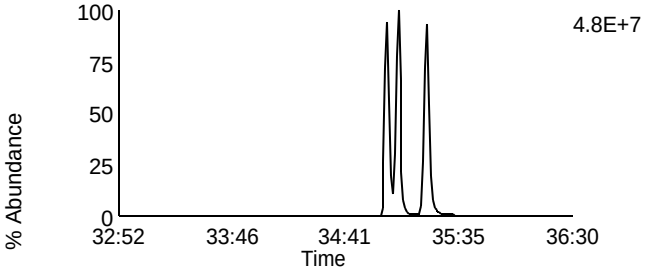
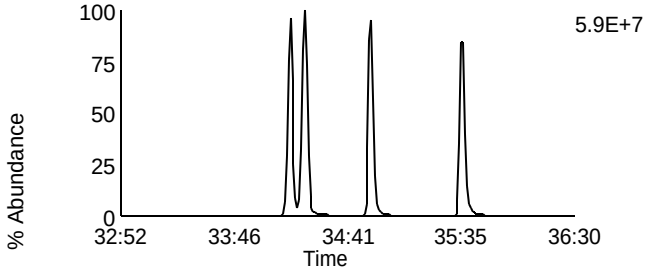
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL



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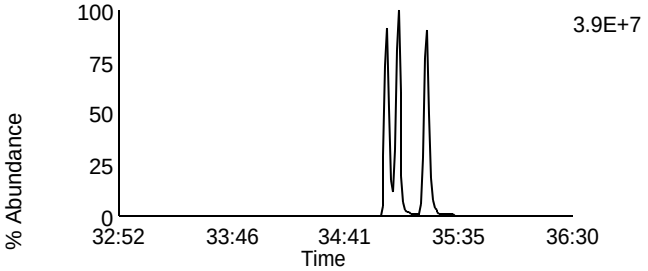
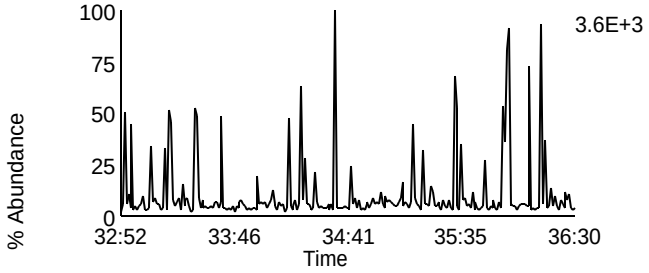
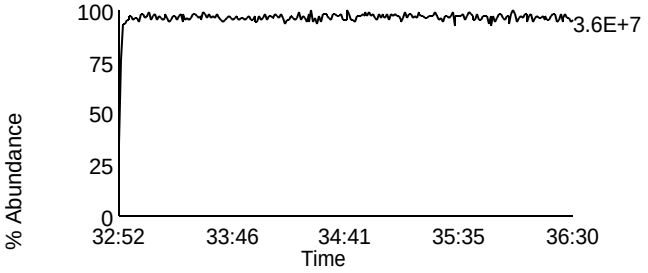
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL

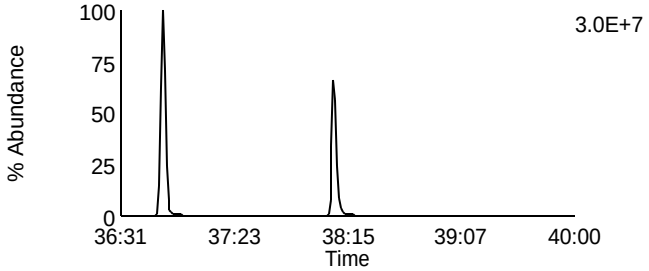


Homologue Group: Heptas

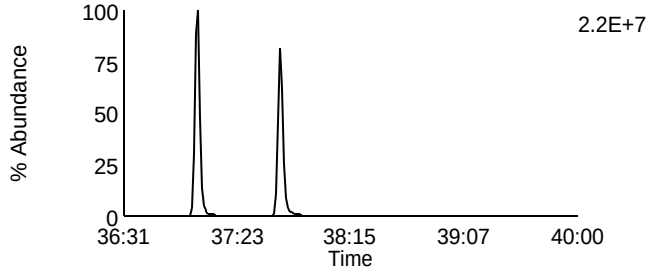
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

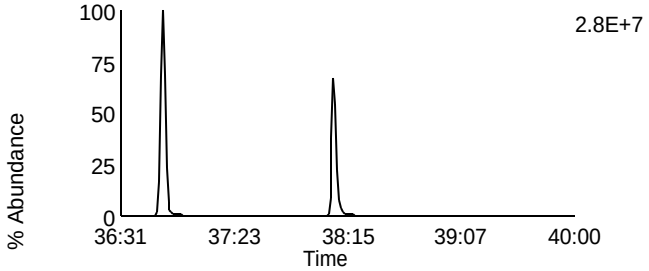
Data File: U140322B_04 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL



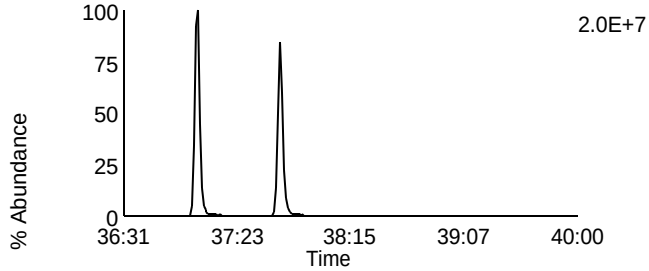
Data File: U140322B_04 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL



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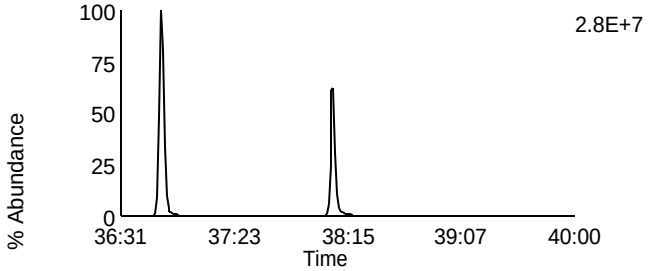
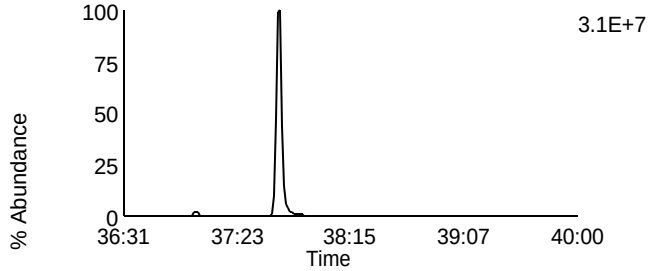
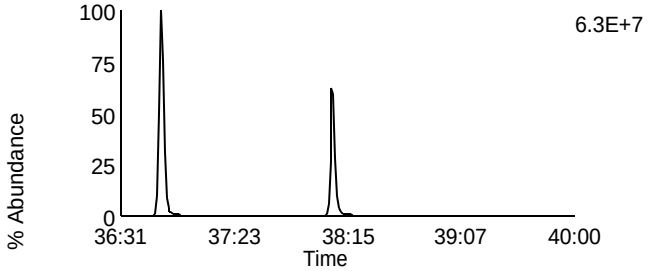
CAL CS3/CPM-7604-301 - BAL



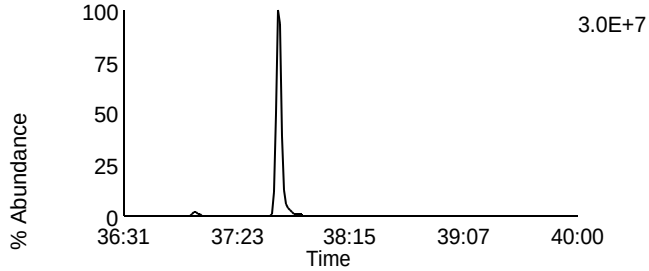
Data File: U140322B_04 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL



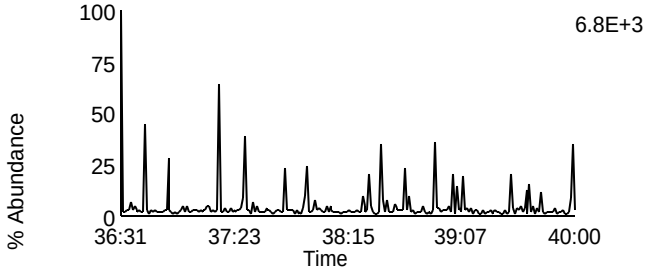
Data File: U140322B_04 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL



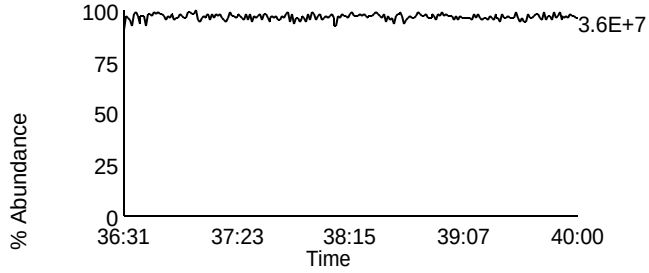
Data File: U140322B_04 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL

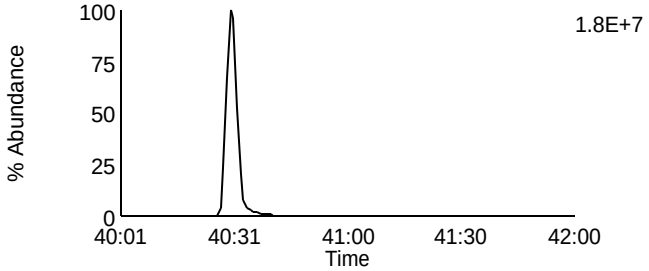


Homologue Group: Octas

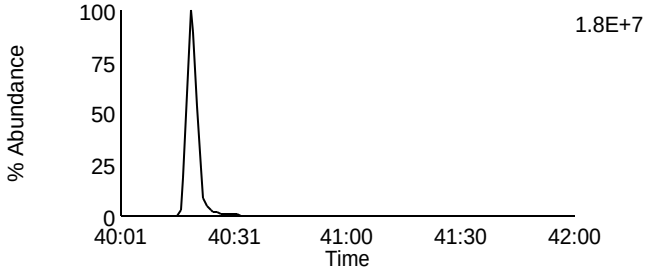
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

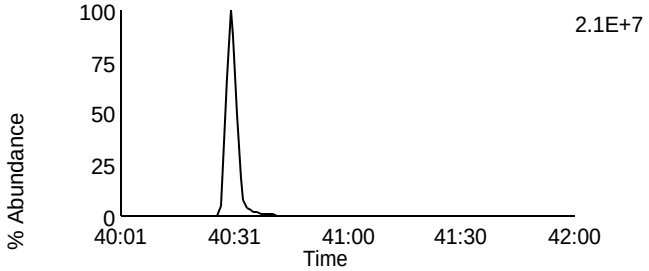
Data File: U140322B_04 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL



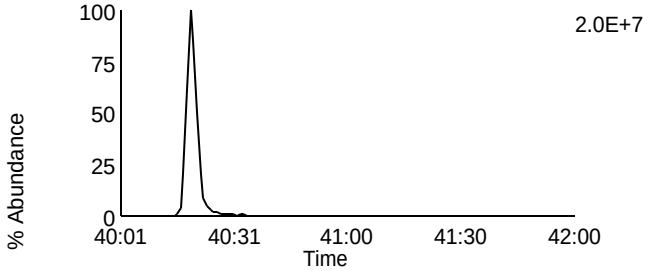
Data File: U140322B_04 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL



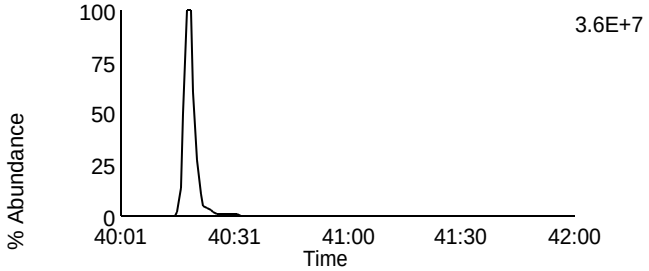
Data File: U140322B_04 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL



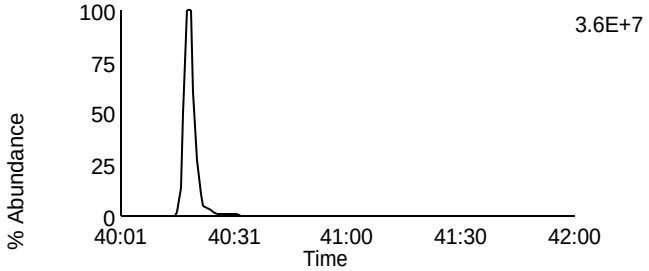
Data File: U140322B_04 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL



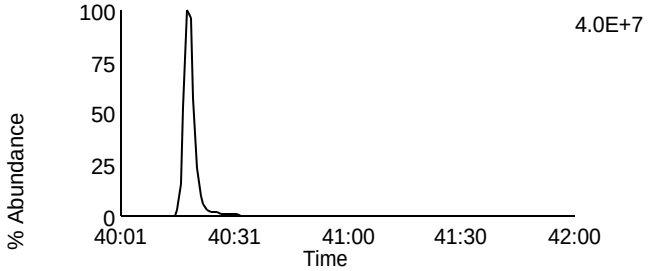
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



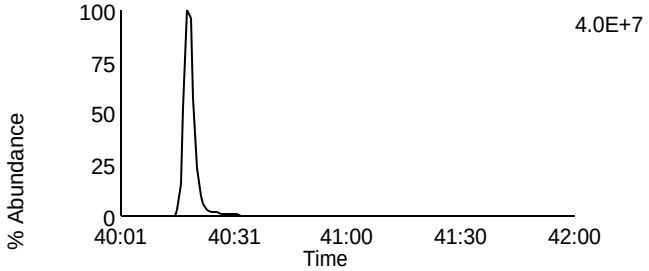
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



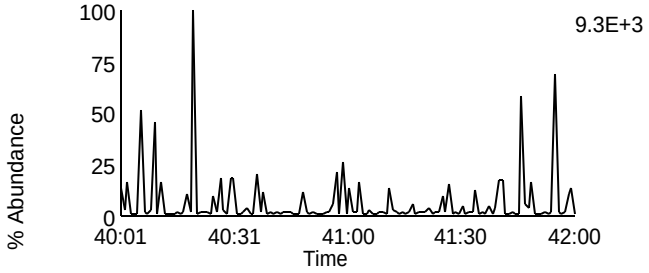
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



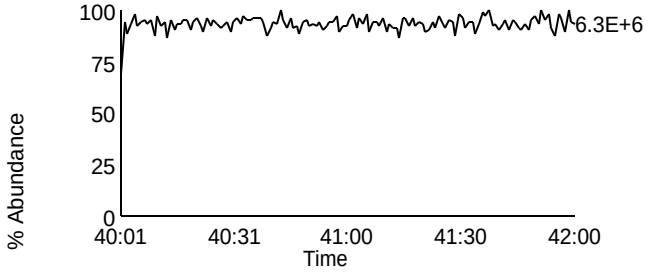
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL

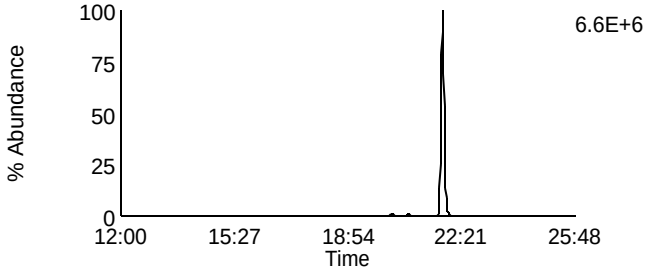


Homologue Group: Tetras

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G1 C1 - 303.9016
CAL CS4-7604-277 - BAL



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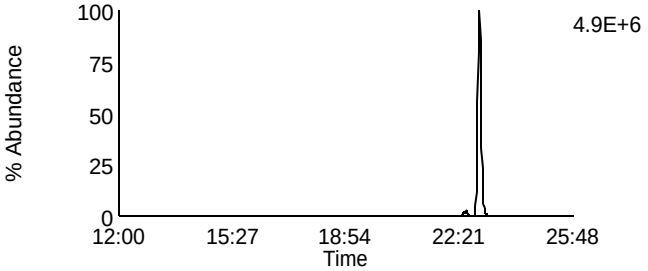
CAL CS4-7604-277 - BAL



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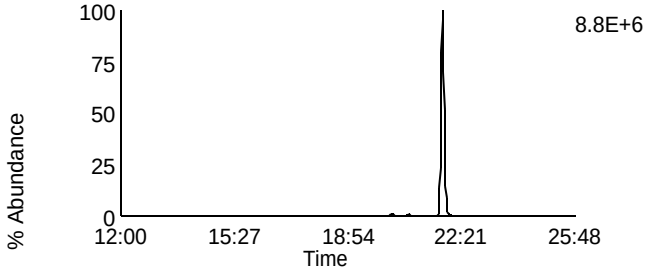
CAL CS4-7604-277 - BAL



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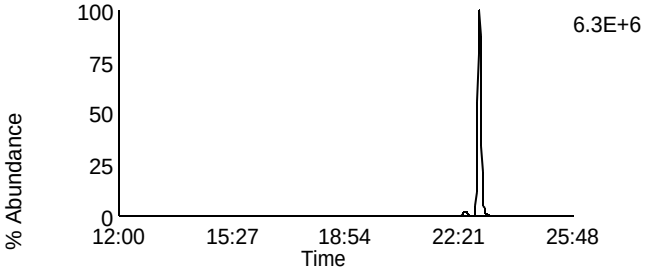
CAL CS4-7604-277 - BAL



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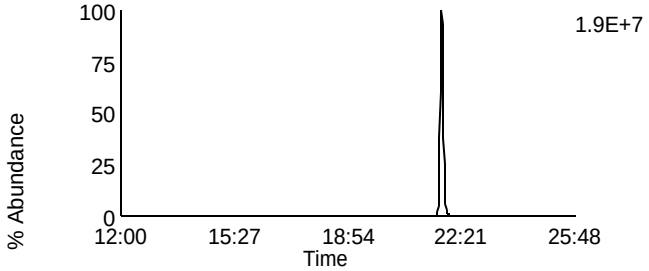
CAL CS4-7604-277 - BAL



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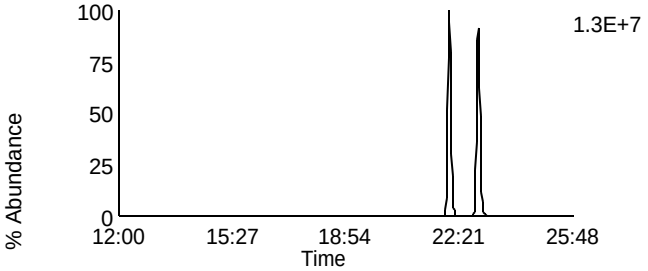
CAL CS4-7604-277 - BAL



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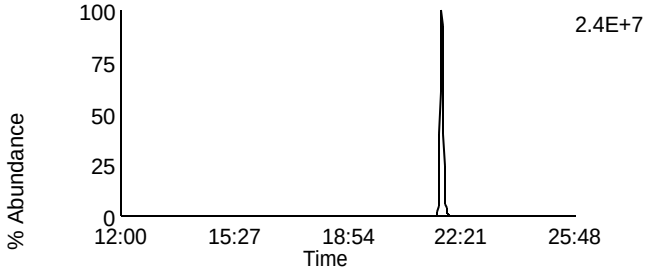
CAL CS4-7604-277 - BAL



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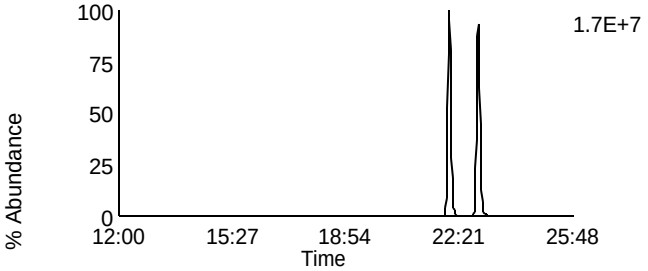
CAL CS4-7604-277 - BAL



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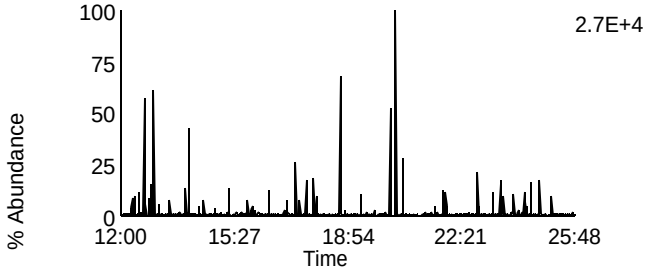
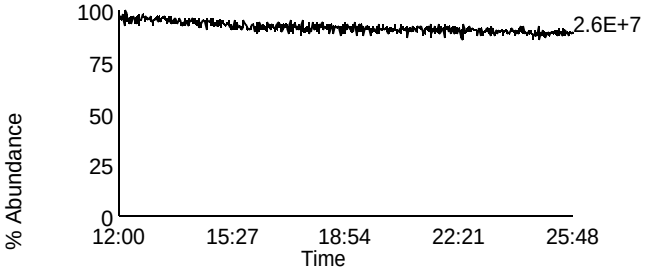
CAL CS4-7604-277 - BAL



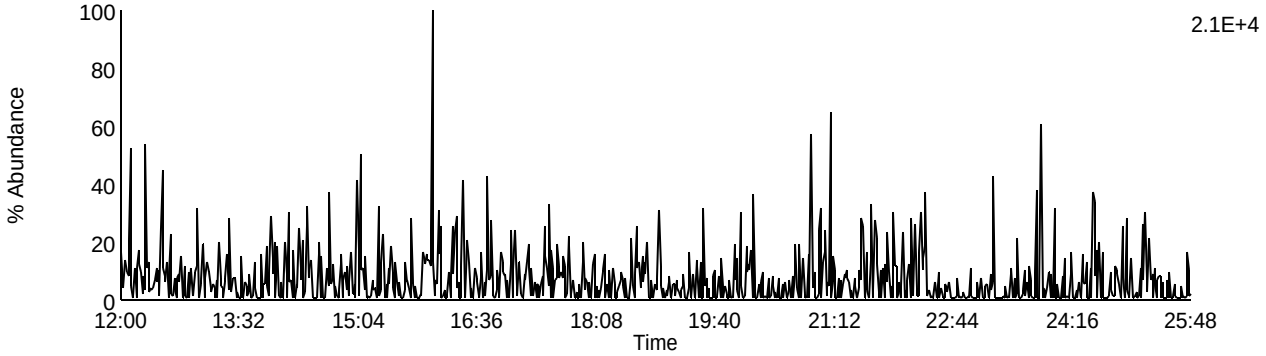
Data File: U140322B_08 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL



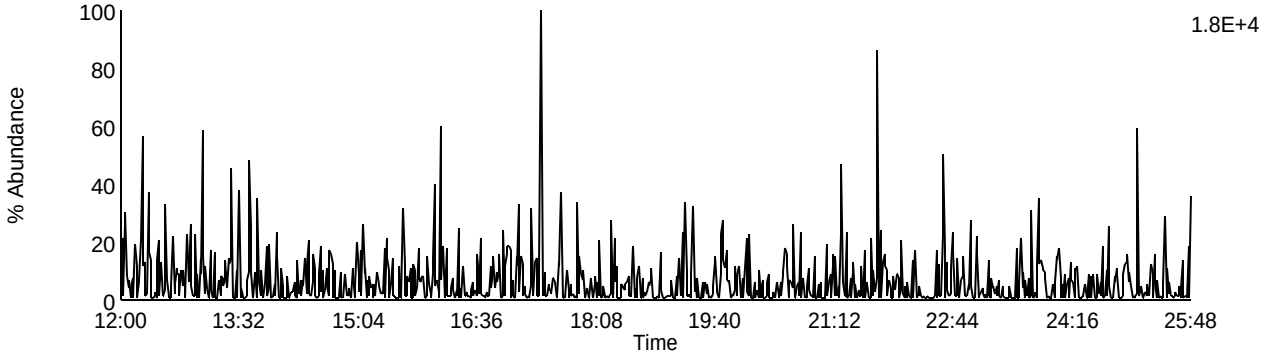
Homologue Group: Penta & Cleanup

Data File Name: U140322B_08	Lab Sample ID: CS4-7604-277
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS4-7604-277 - BAL	Instrument: 10MSHR06 (U)

Data File: U140322B_08 G1 C12 - 339.8597
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G1 C13 - 341.8567
CAL CS4-7604-277 - BAL



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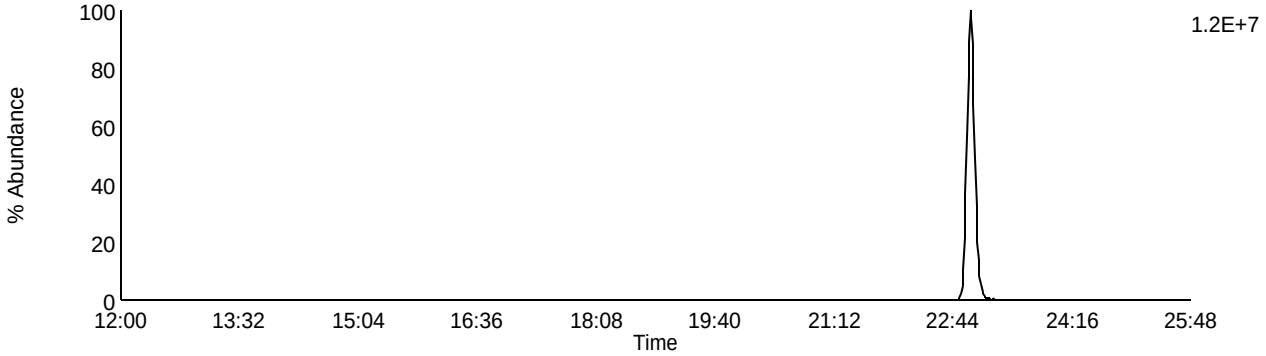
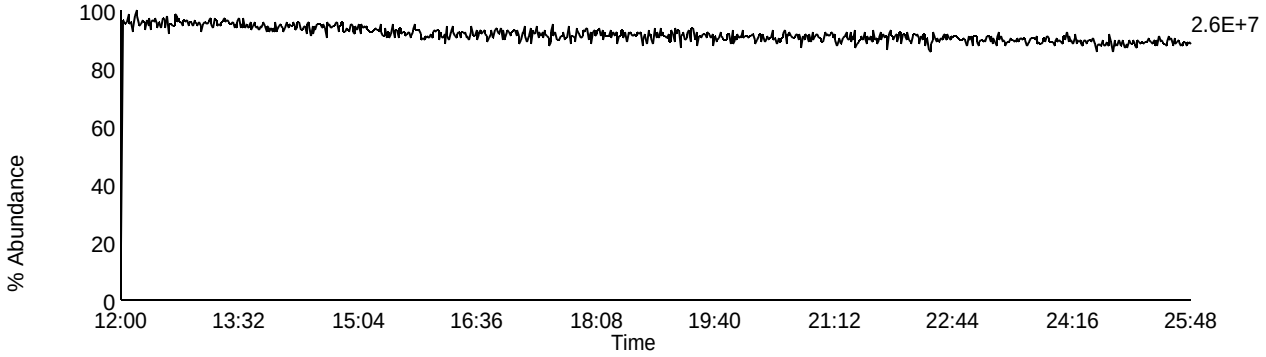
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL

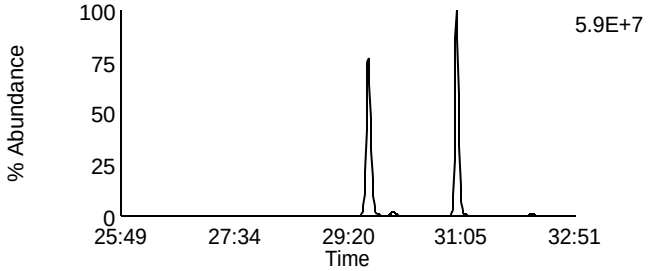


Homologue Group: Pentas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G2 C1 - 339.8597
CAL CS4-7604-277 - BAL



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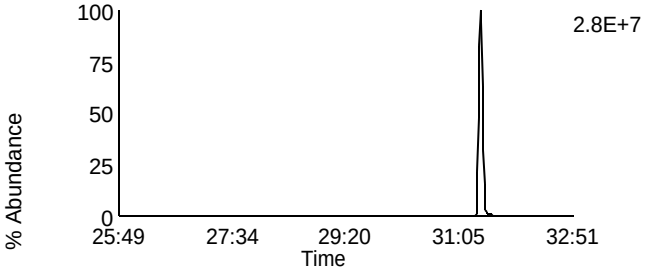
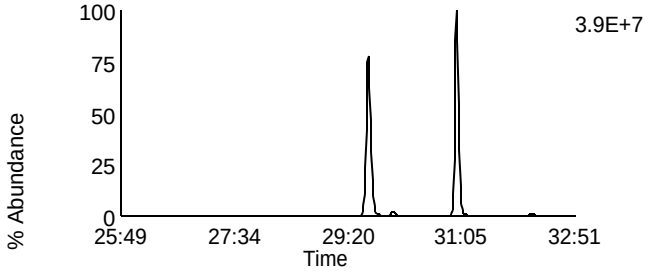
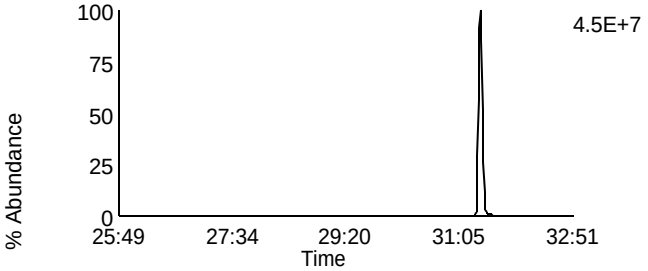
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C2 - 341.8567
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C8 - 355.8546
CAL CS4-7604-277 - BAL



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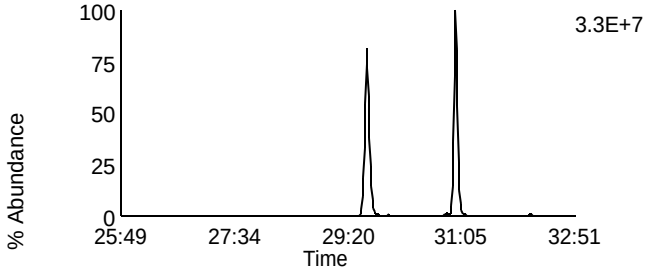
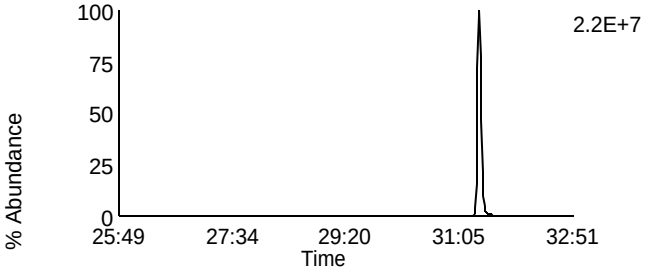
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C10 - 367.8948
CAL CS4-7604-277 - BAL



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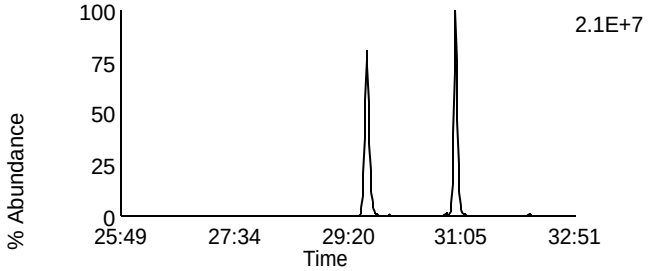
CAL CS4-7604-277 - BAL



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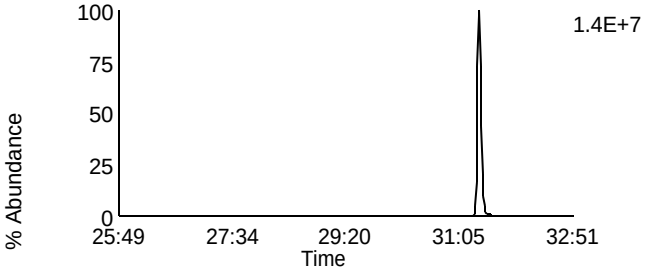
CAL CS4-7604-277 - BAL



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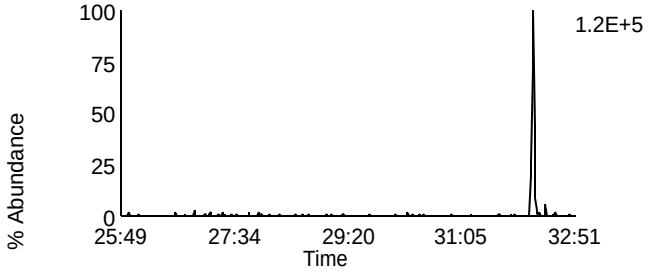
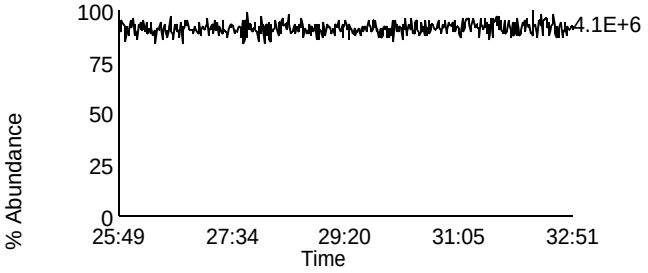
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C6 - 354.9792
CAL CS4-7604-277 - BAL

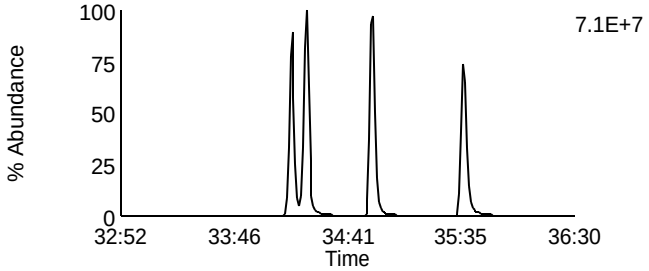


Homologue Group: Hexas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G3 C1 - 373.8207
CAL CS4-7604-277 - BAL



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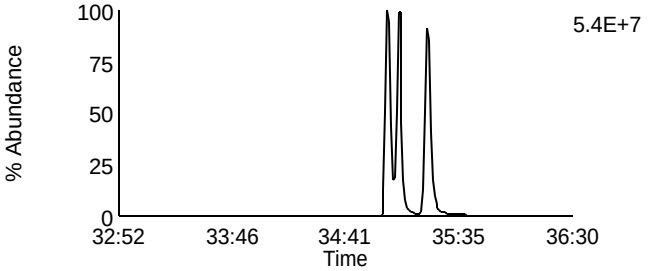
CAL CS4-7604-277 - BAL



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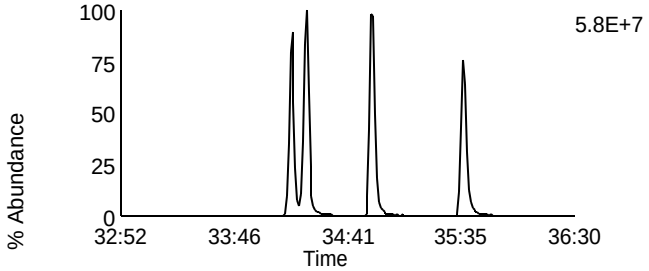
CAL CS4-7604-277 - BAL



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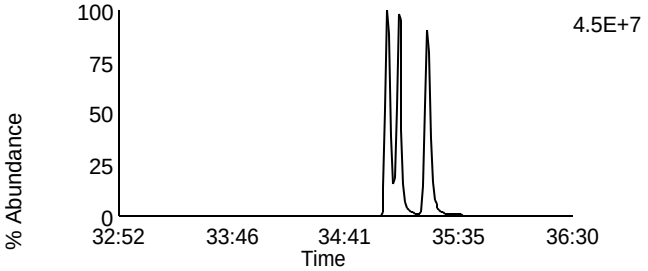
CAL CS4-7604-277 - BAL



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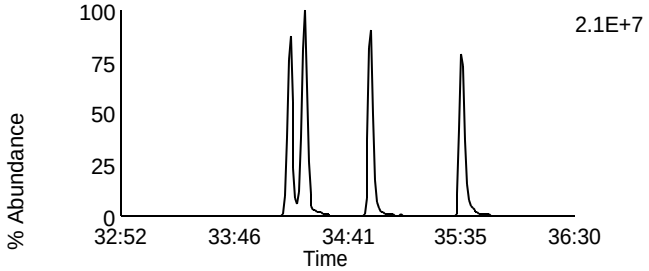
CAL CS4-7604-277 - BAL



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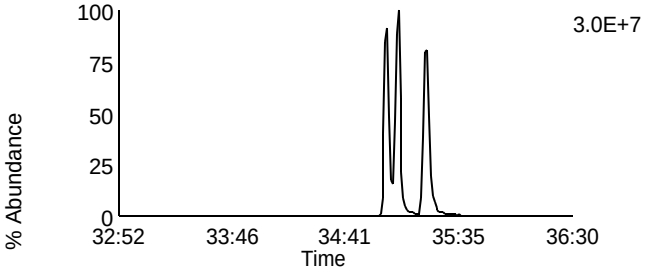
CAL CS4-7604-277 - BAL



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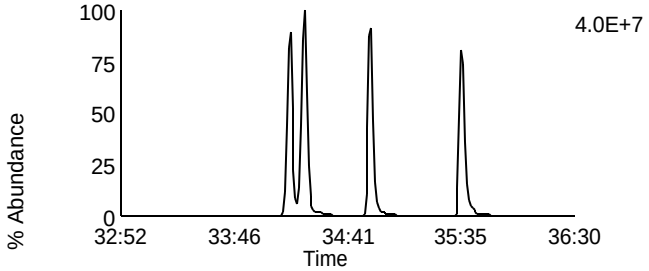
CAL CS4-7604-277 - BAL



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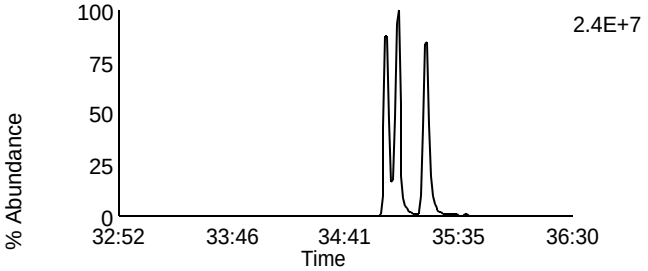
CAL CS4-7604-277 - BAL



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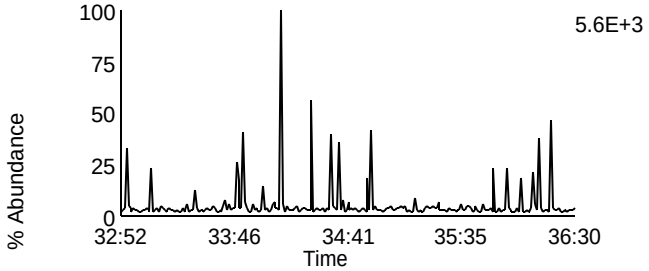
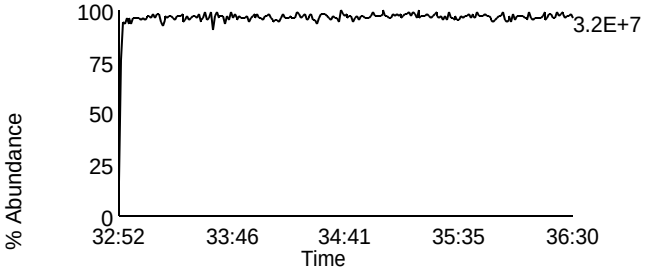
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G3 C3 - 380.976
CAL CS4-7604-277 - BAL

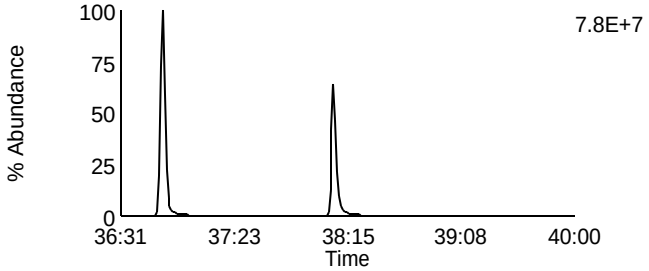


Homologue Group: Heptas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G4 C3 - 407.7818
CAL CS4-7604-277 - BAL



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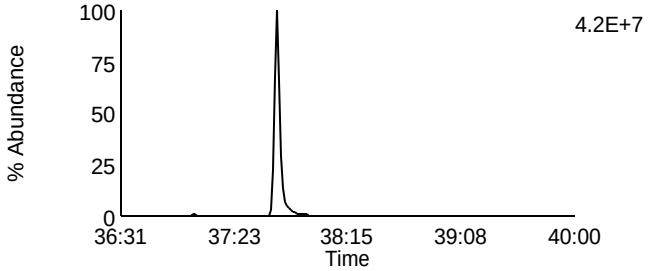
CAL CS4-7604-277 - BAL



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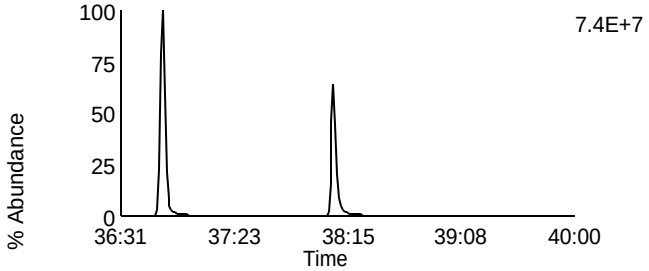
CAL CS4-7604-277 - BAL



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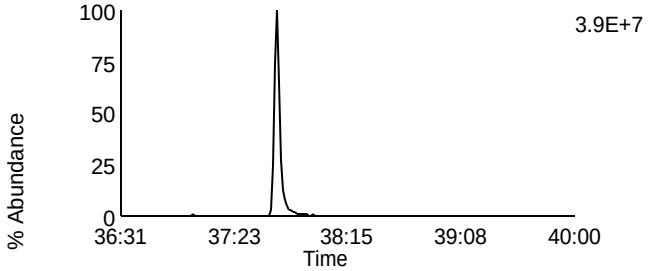
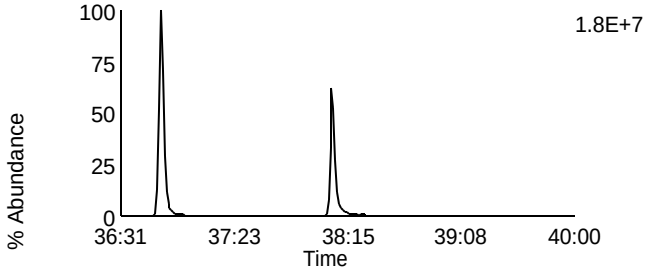
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C6 - 417.825
CAL CS4-7604-277 - BAL



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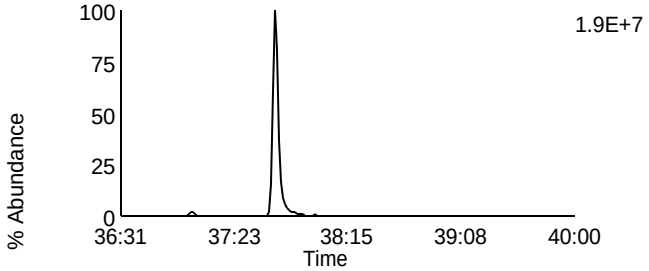
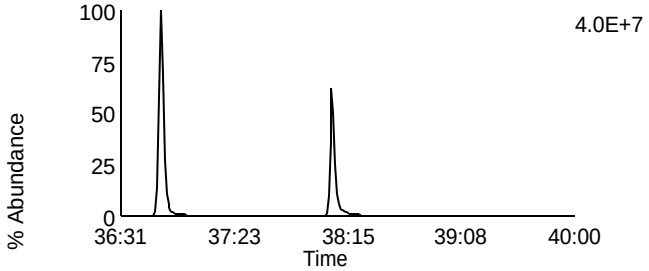
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C7 - 419.822
CAL CS4-7604-277 - BAL



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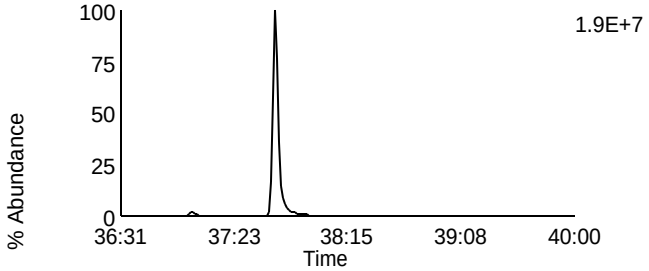
CAL CS4-7604-277 - BAL



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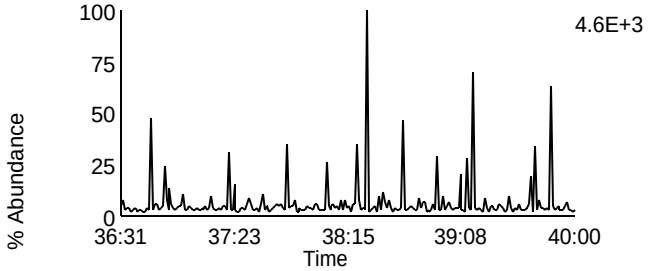
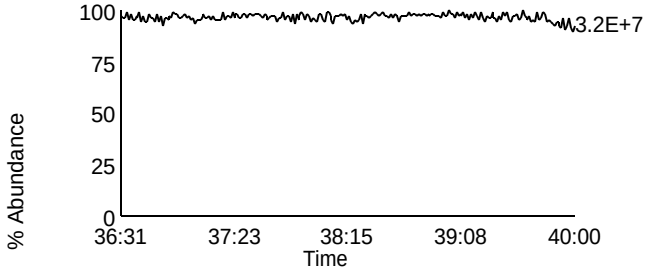
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C1 - 380.976
CAL CS4-7604-277 - BAL

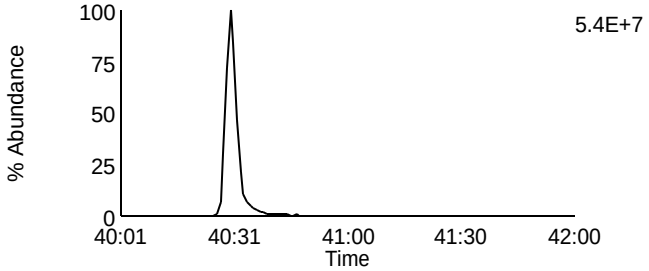


Homologue Group: Octas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G5 C4 - 441.7428
CAL CS4-7604-277 - BAL



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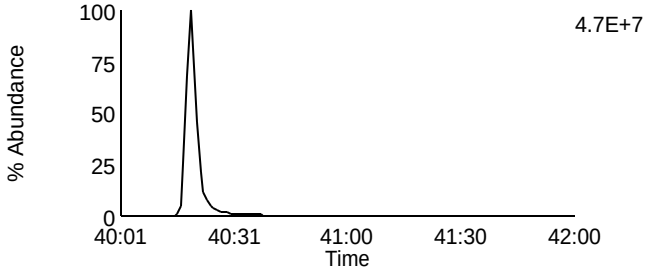
CAL CS4-7604-277 - BAL



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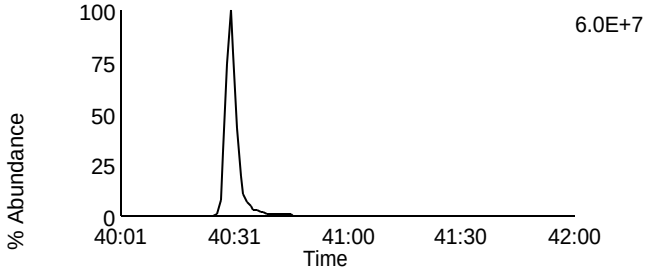
CAL CS4-7604-277 - BAL



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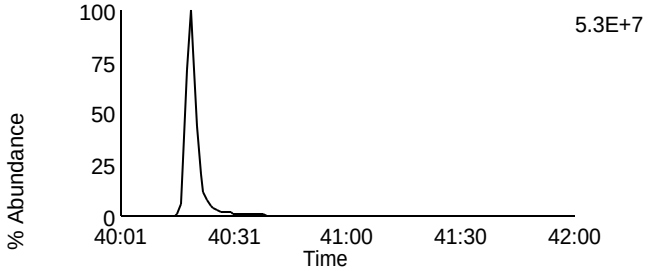
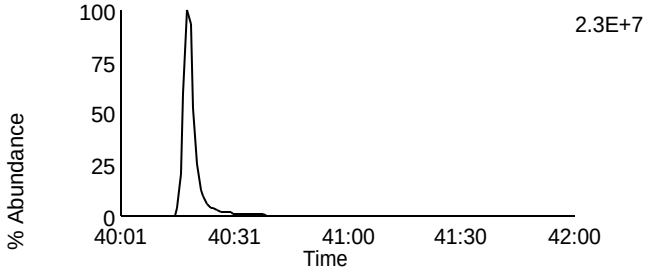
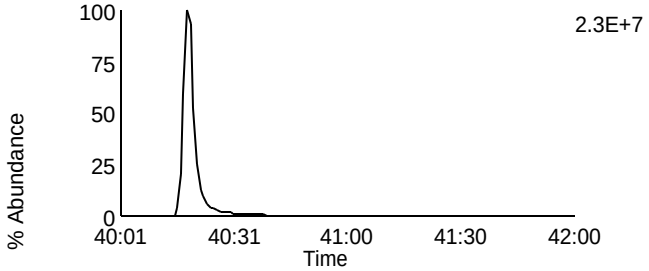
CAL CS4-7604-277 - BAL



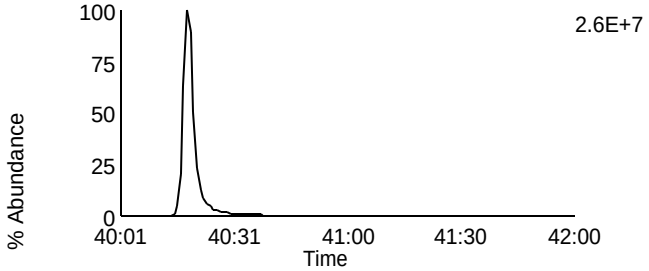
Data File: U140322B_08 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



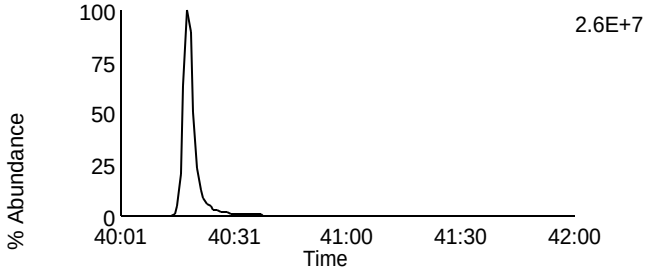
Data File: U140322B_08 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



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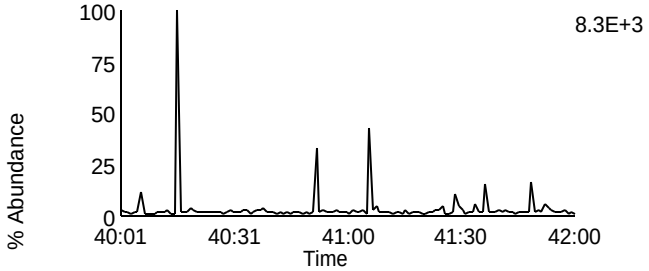
CAL CS4-7604-277 - BAL



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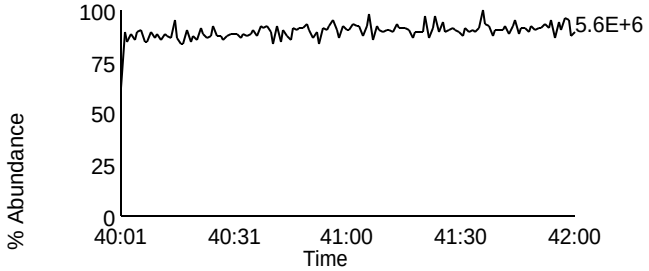
CAL CS4-7604-277 - BAL

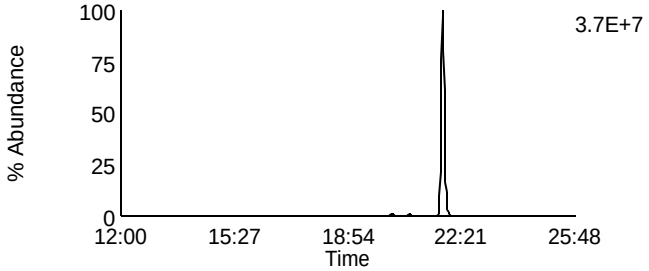


Homologue Group: Tetras

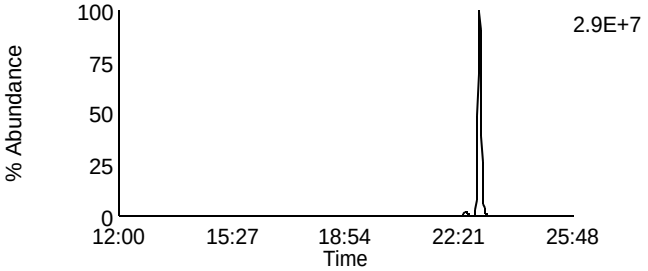
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G1 C1 - 303.9016
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C7 - 319.8965
CAL CS5-7604-278 - BAL



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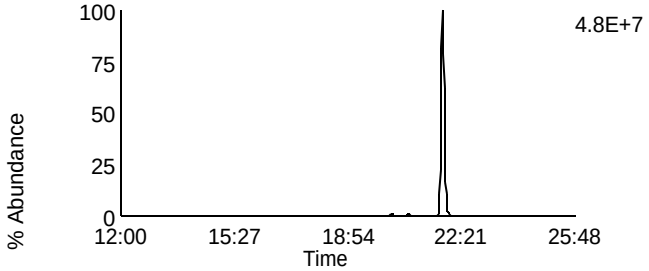
CAL CS5-7604-278 - BAL



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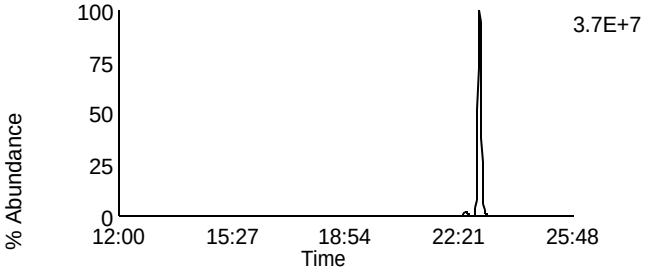
CAL CS5-7604-278 - BAL



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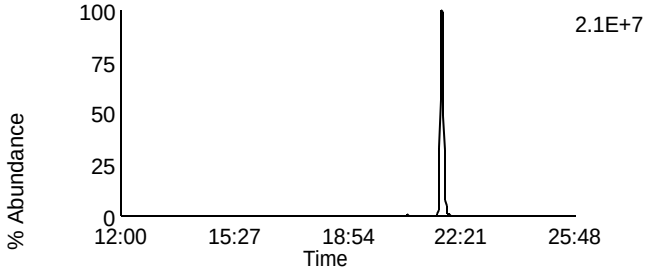
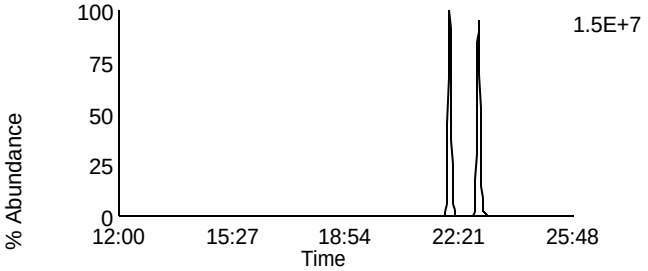
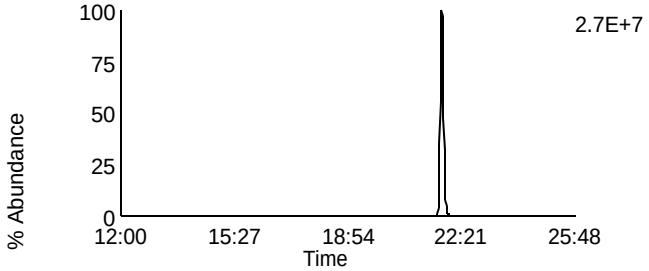
CAL CS5-7604-278 - BAL



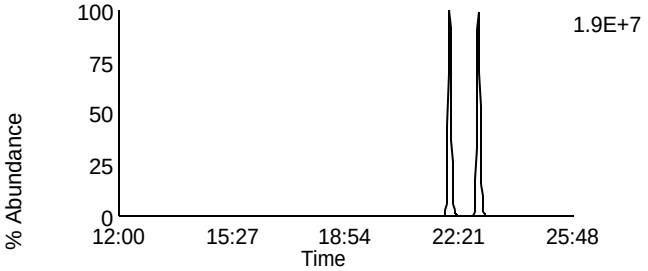
Data File: U140322B_07 G1 C10 - 331.9367
CAL CS5-7604-278 - BAL



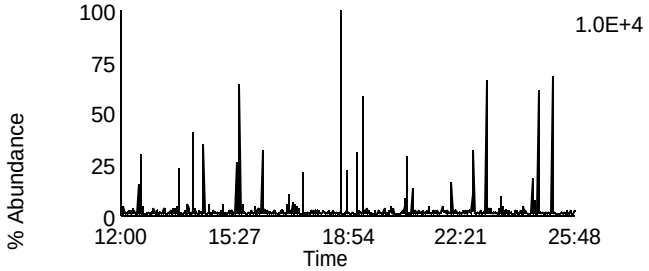
Data File: U140322B_07 G1 C4 - 317.9389
CAL CS5-7604-278 - BAL



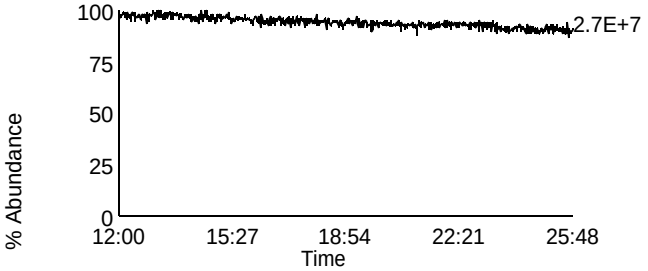
Data File: U140322B_07 G1 C11 - 333.9338
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C14 - 375.8364
CAL CS5-7604-278 - BAL



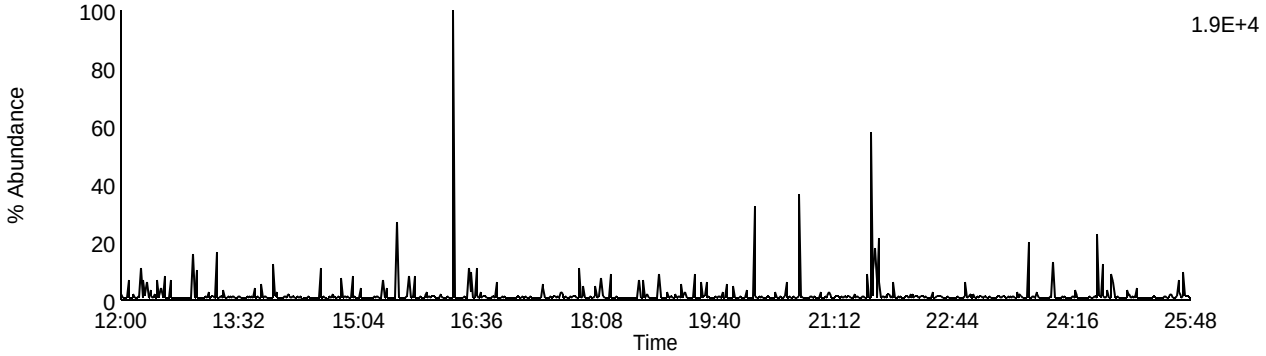
Data File: U140322B_07 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL



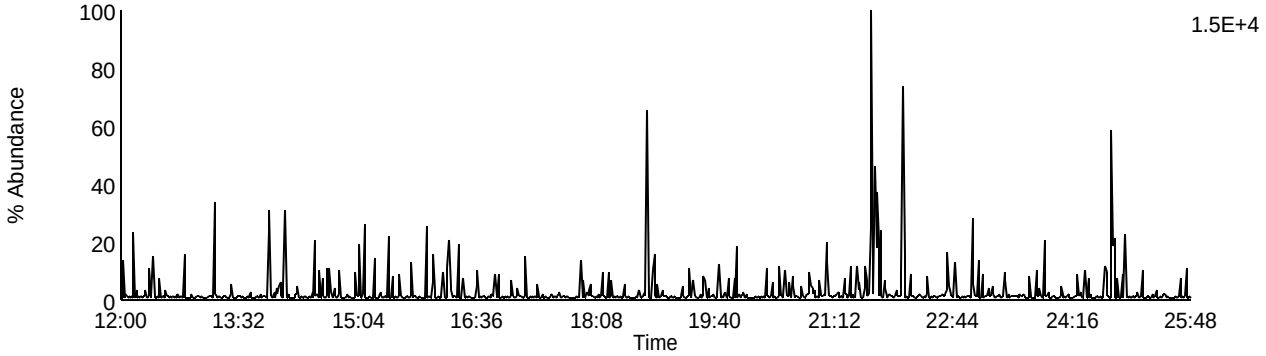
Homologue Group: Penta & Cleanup

Data File Name: U140322B_07	Lab Sample ID: CS5-7604-278
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS5-7604-278 - BAL	Instrument: 10MSHR06 (U)

Data File: U140322B_07 G1 C12 - 339.8597
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C13 - 341.8567
CAL CS5-7604-278 - BAL



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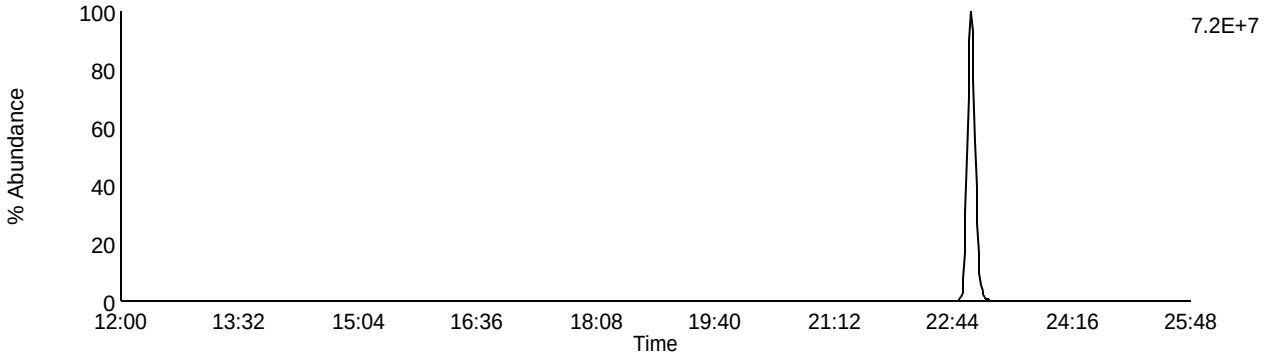
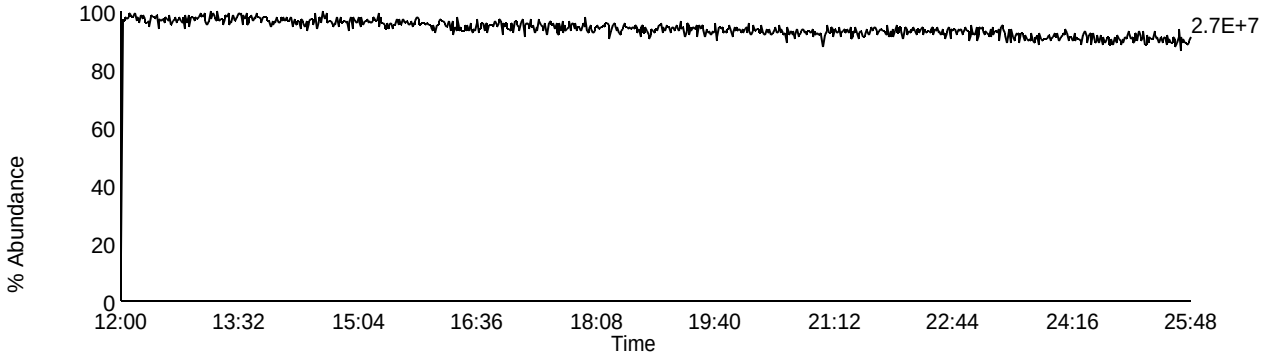
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL

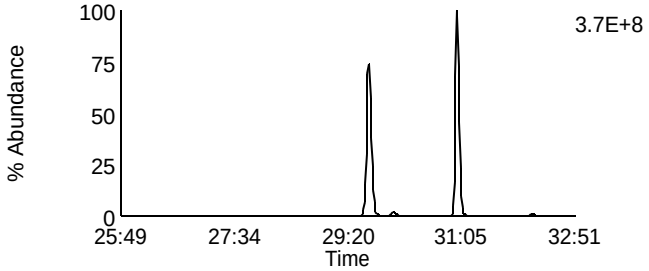


Homologue Group: Pentas

Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G2 C1 - 339.8597
CAL CS5-7604-278 - BAL



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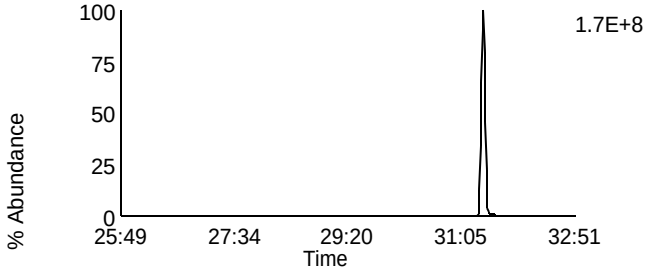
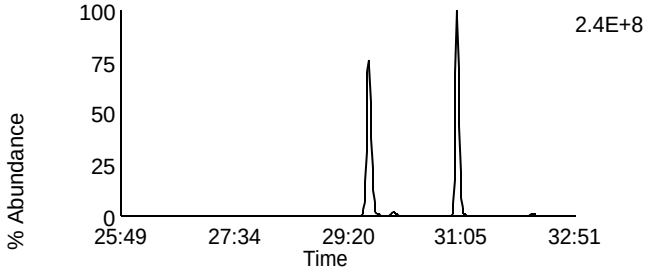
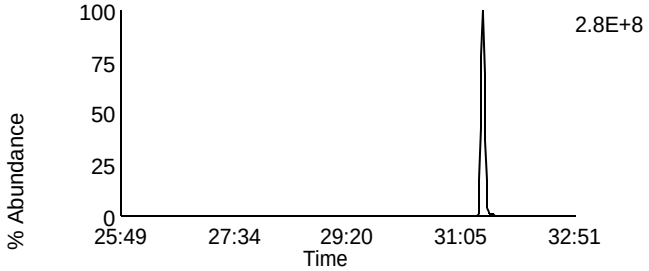
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C2 - 341.8567
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C8 - 355.8546
CAL CS5-7604-278 - BAL



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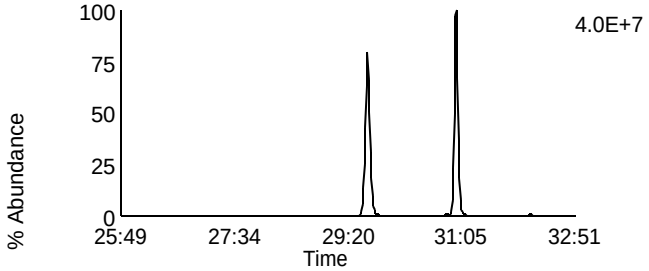
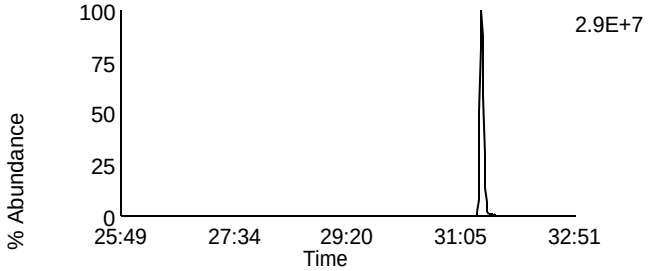
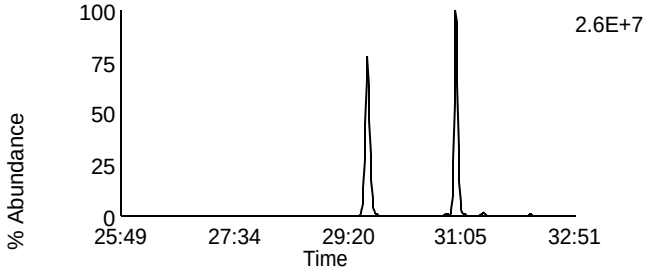
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C10 - 367.8948
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C5 - 353.8969
CAL CS5-7604-278 - BAL



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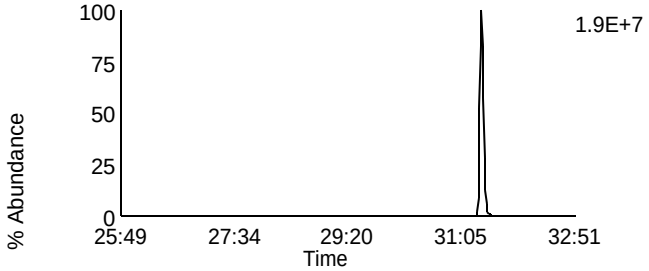
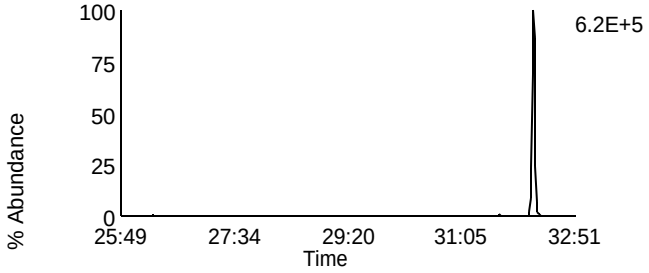
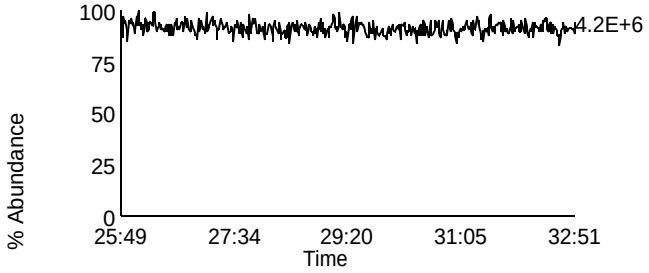
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C12 - 409.7974
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C6 - 354.9792
CAL CS5-7604-278 - BAL

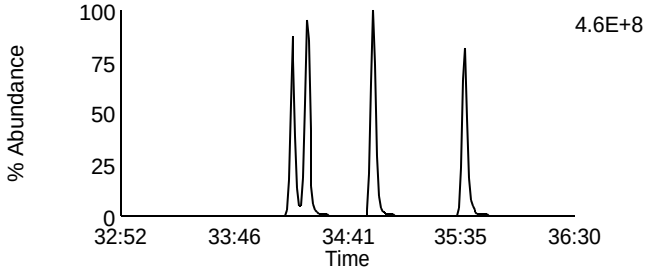


Homologue Group: Hexas

Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G3 C1 - 373.8207
CAL CS5-7604-278 - BAL



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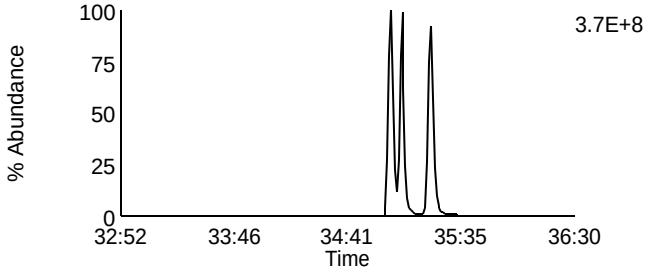
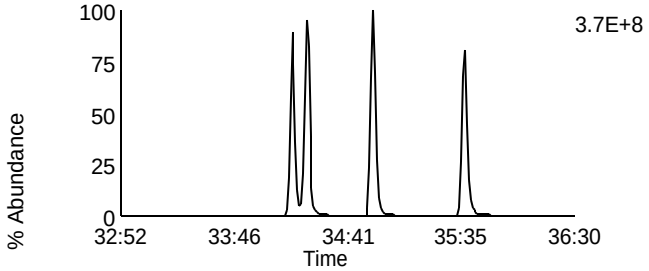
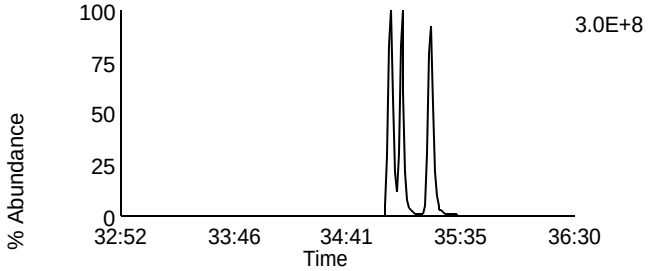
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C2 - 375.8178
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C8 - 391.8127
CAL CS5-7604-278 - BAL



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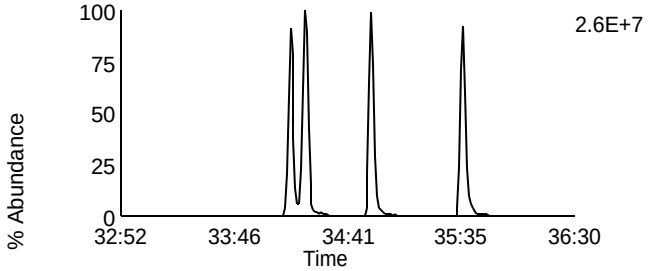
CAL CS5-7604-278 - BAL



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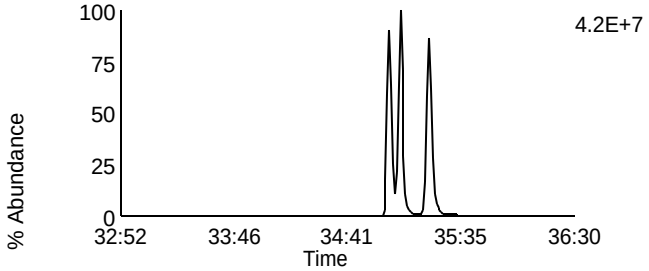
CAL CS5-7604-278 - BAL



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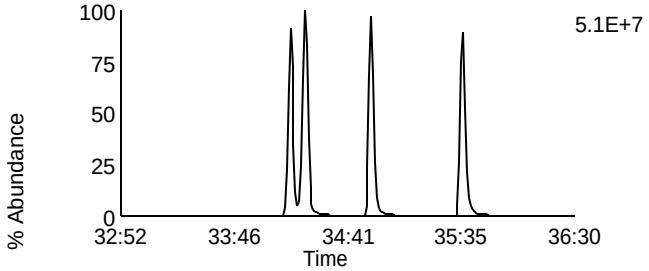
CAL CS5-7604-278 - BAL



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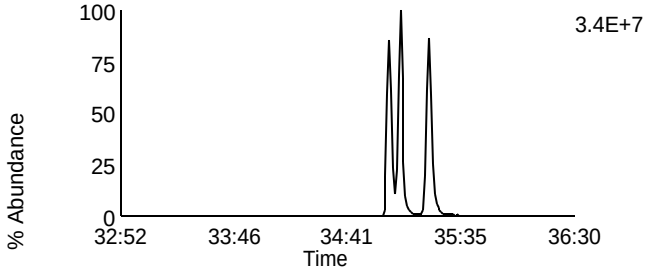
CAL CS5-7604-278 - BAL



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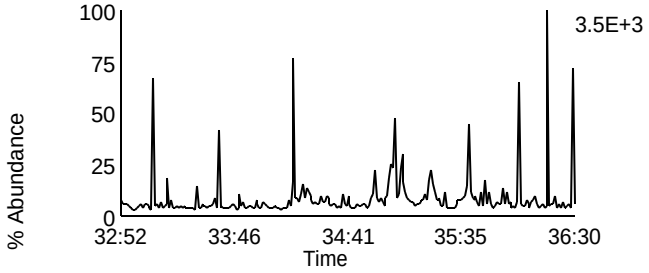
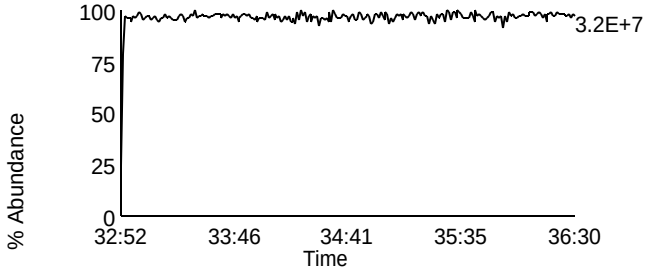
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C3 - 380.976
CAL CS5-7604-278 - BAL

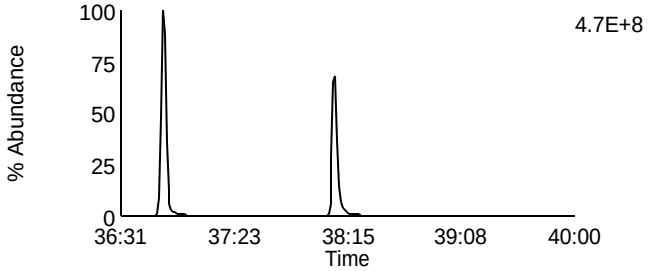


Homologue Group: Heptas

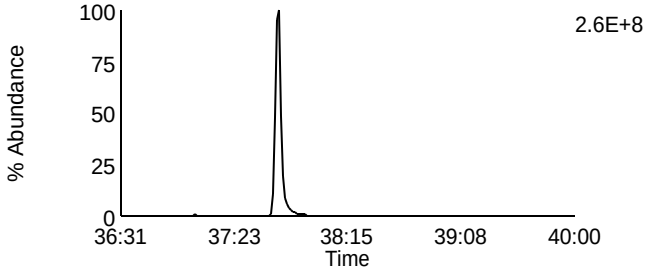
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

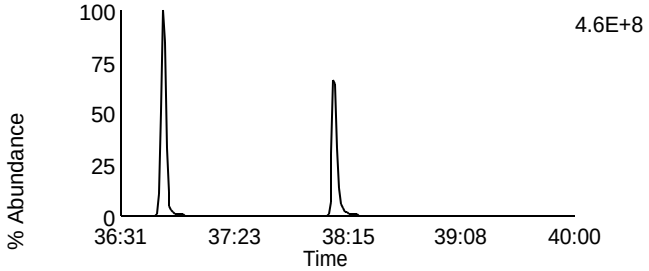
Data File: U140322B_07 G4 C3 - 407.7818
CAL CS5-7604-278 - BAL



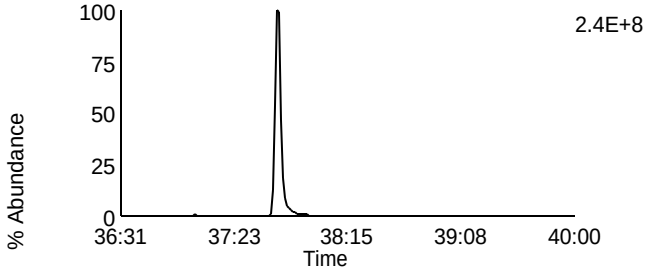
Data File: U140322B_07 G4 C8 - 423.7767
CAL CS5-7604-278 - BAL



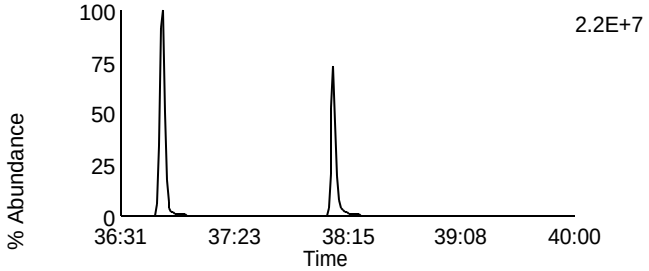
Data File: U140322B_07 G4 C4 - 409.7788
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C9 - 425.7737
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C6 - 417.825
CAL CS5-7604-278 - BAL



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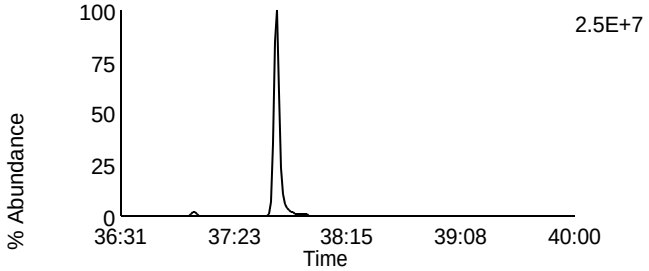
CAL CS5-7604-278 - BAL



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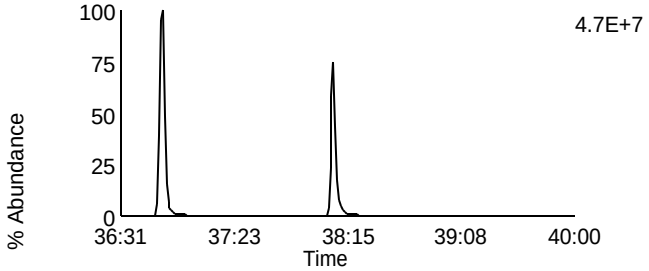
CAL CS5-7604-278 - BAL



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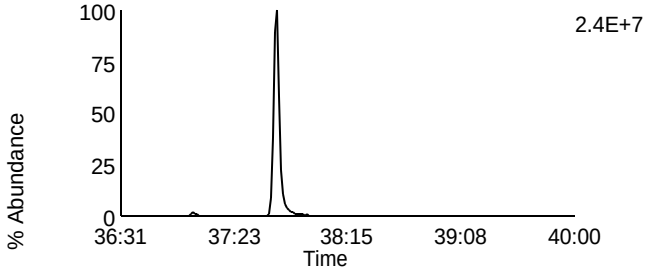
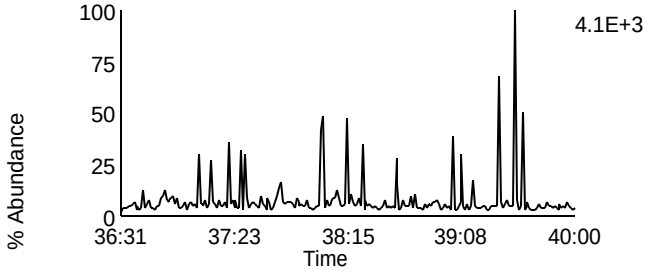
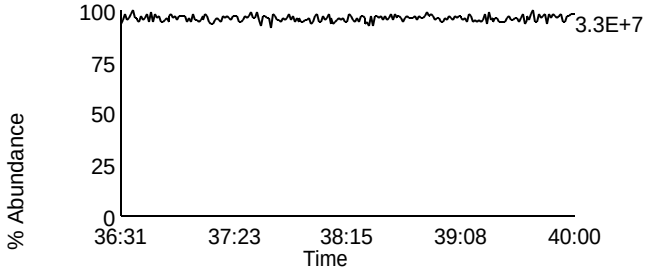
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C13 - 479.7165
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C1 - 380.976
CAL CS5-7604-278 - BAL

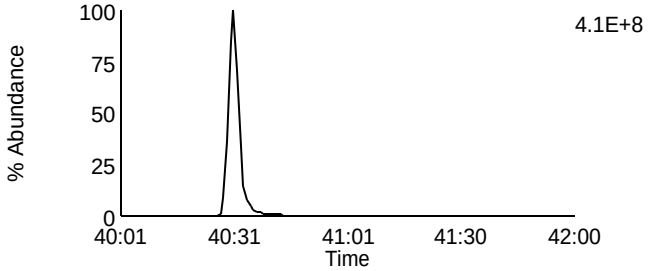


Homologue Group: Octas

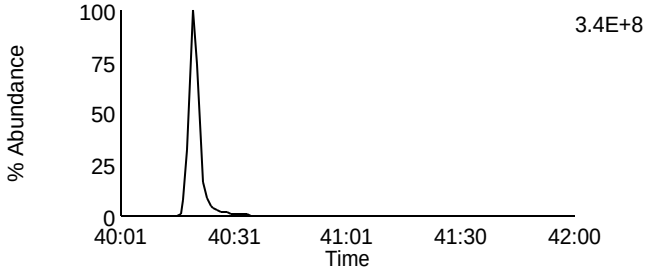
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

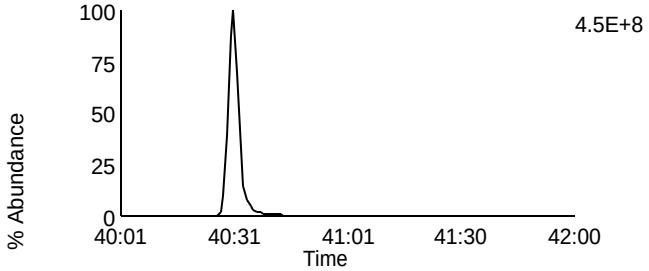
Data File: U140322B_07 G5 C4 - 441.7428
CAL CS5-7604-278 - BAL



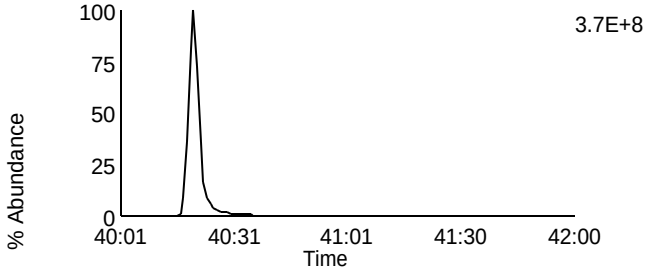
Data File: U140322B_07 G5 C8 - 457.7377
CAL CS5-7604-278 - BAL



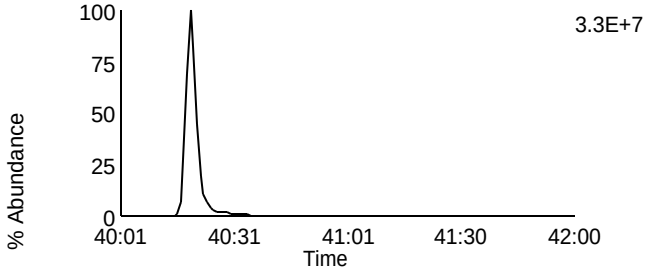
Data File: U140322B_07 G5 C5 - 443.7398
CAL CS5-7604-278 - BAL



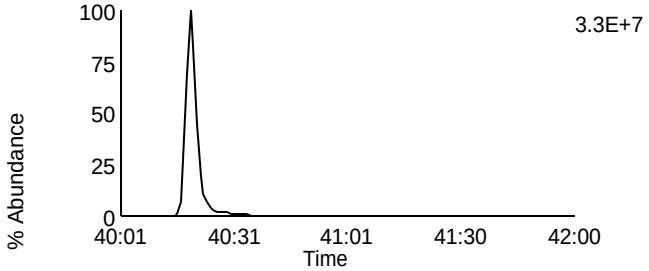
Data File: U140322B_07 G5 C9 - 459.7347
CAL CS5-7604-278 - BAL



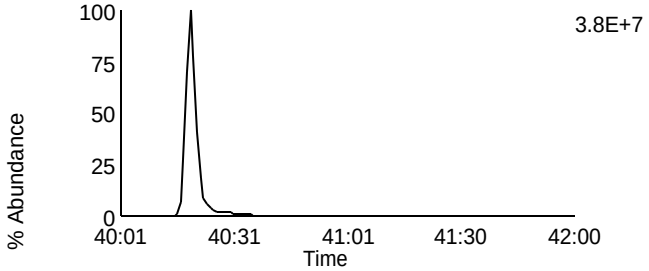
Data File: U140322B_07 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



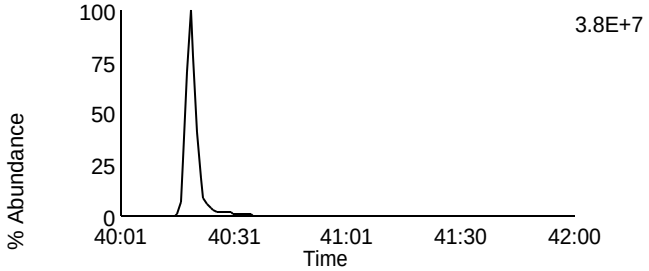
Data File: U140322B_07 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



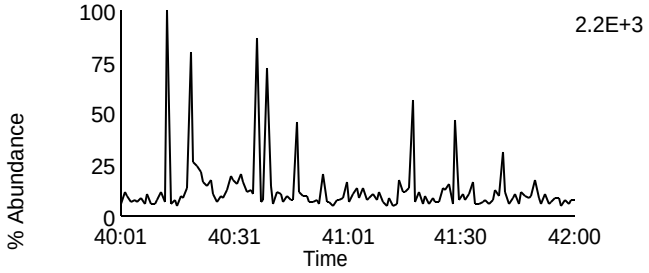
Data File: U140322B_07 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



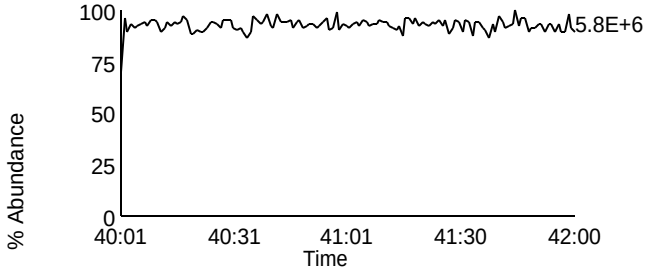
Data File: U140322B_07 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C13 - 513.6775
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C2 - 430.9728
CAL CS5-7604-278 - BAL

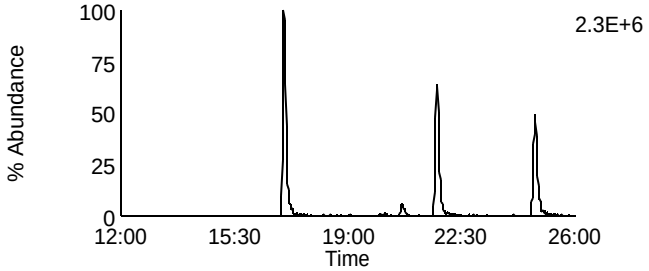


Homologue Group: Tetras

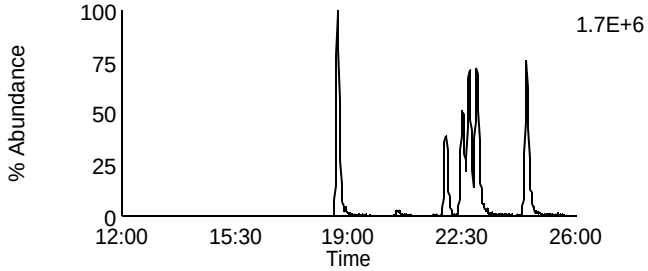
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

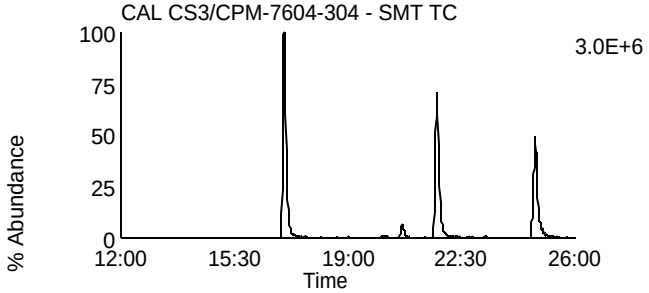
Data File: U140512A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT TC



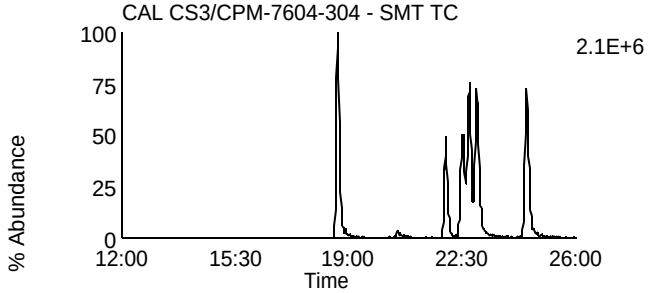
Data File: U140512A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT TC



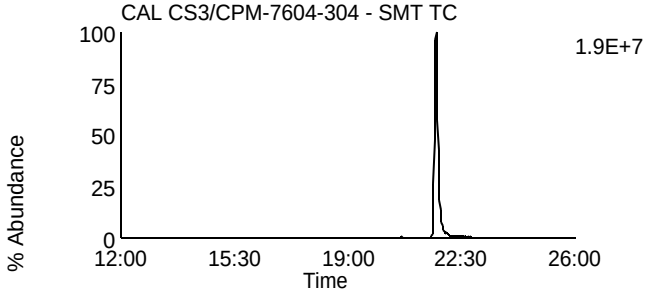
Data File: U140512A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT TC



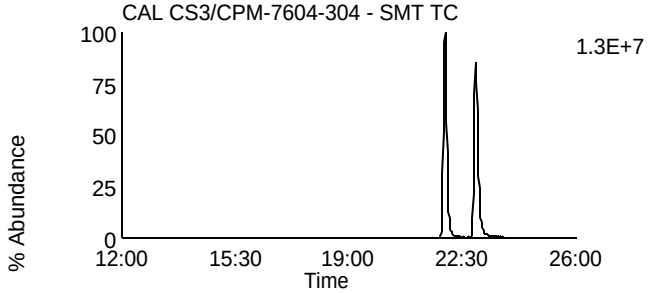
Data File: U140512A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT TC



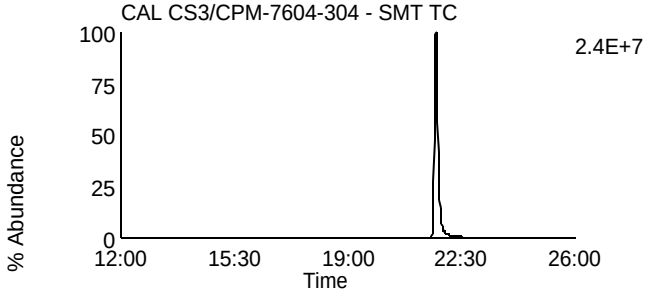
Data File: U140512A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT TC



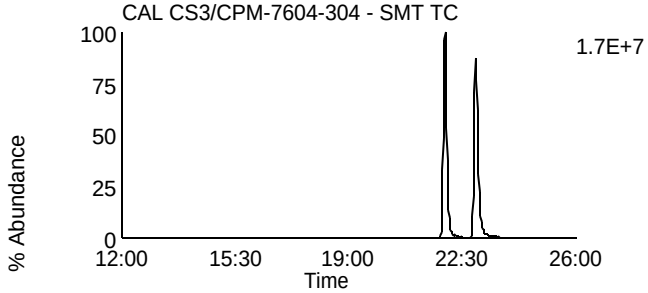
Data File: U140512A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT TC



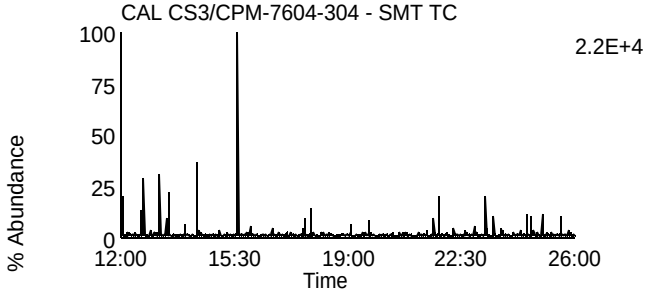
Data File: U140512A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT TC



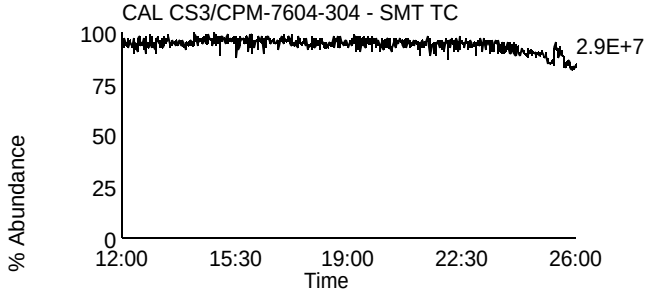
Data File: U140512A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT TC

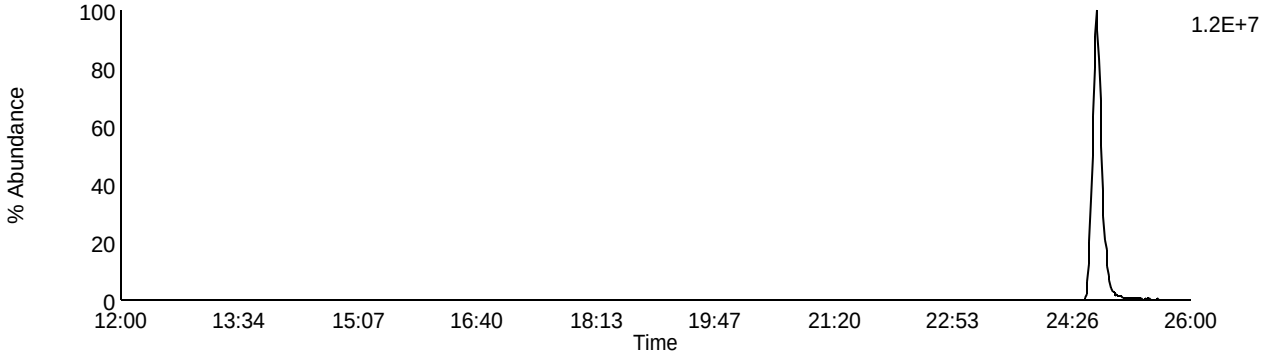


Homologue Group: Penta & Cleanup

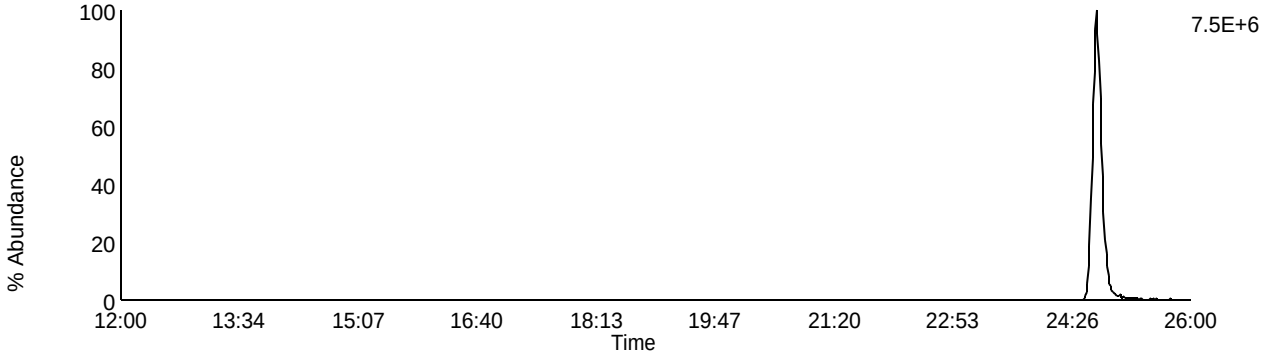
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

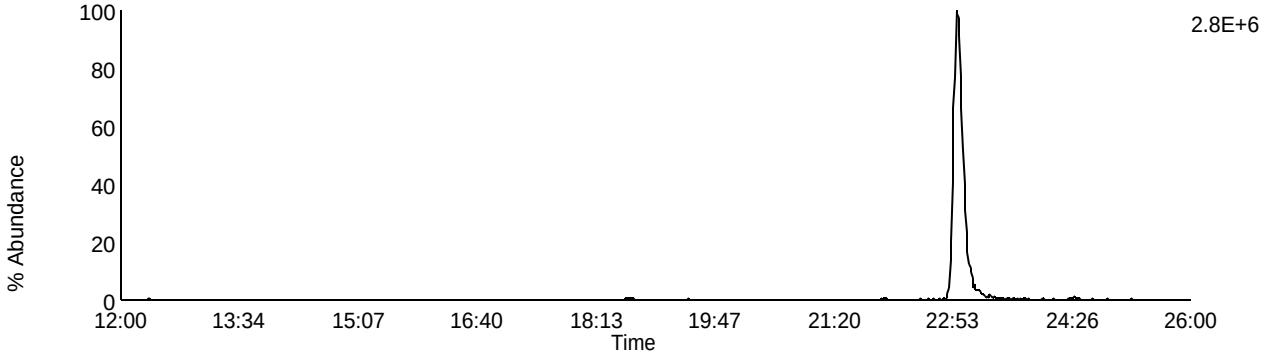
Data File: U140512A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT TC



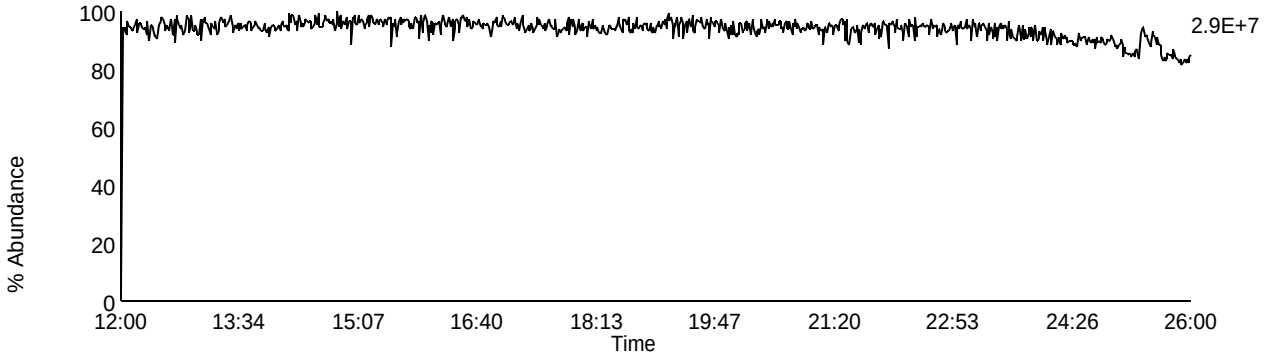
Data File: U140512A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT TC

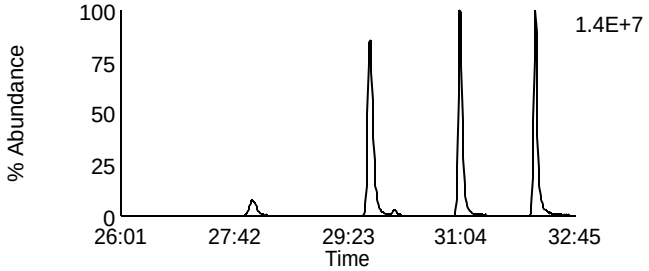


Homologue Group: Pentas

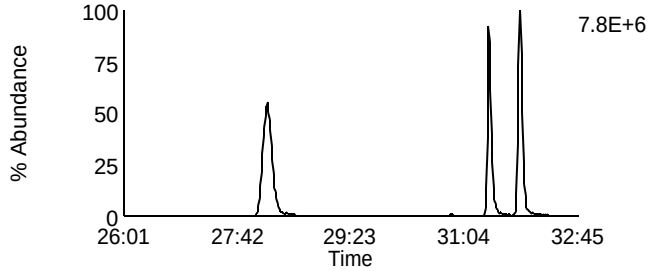
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

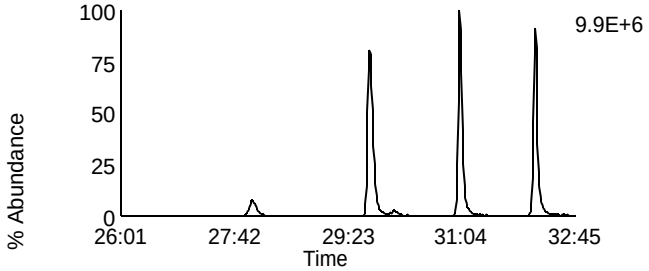
Data File: U140512A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT TC



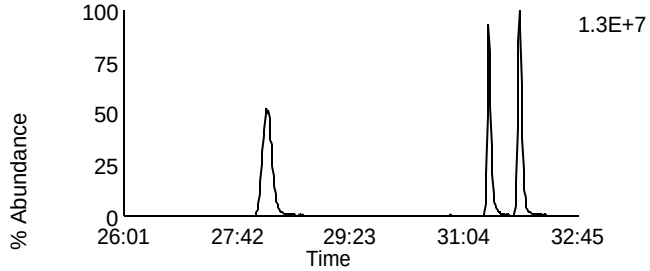
Data File: U140512A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT TC



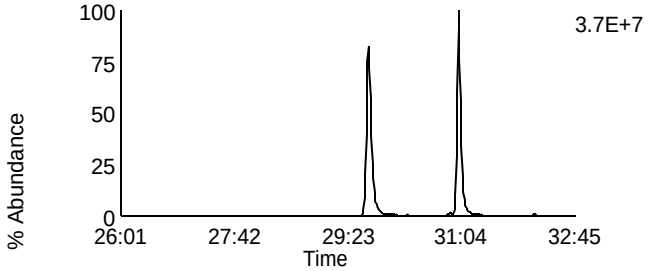
Data File: U140512A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT TC



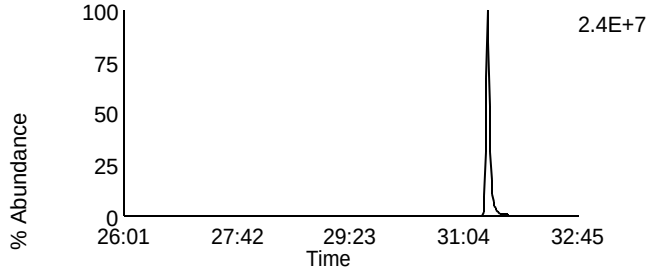
Data File: U140512A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT TC



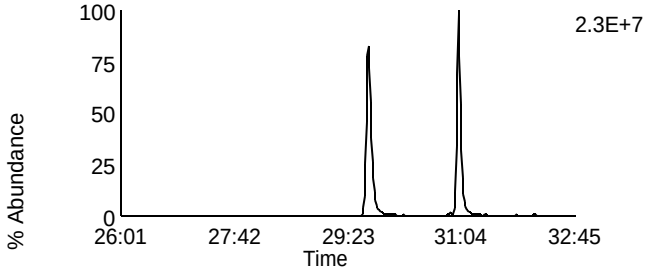
Data File: U140512A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT TC



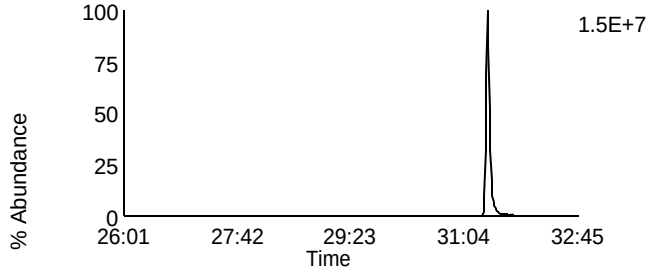
Data File: U140512A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT TC



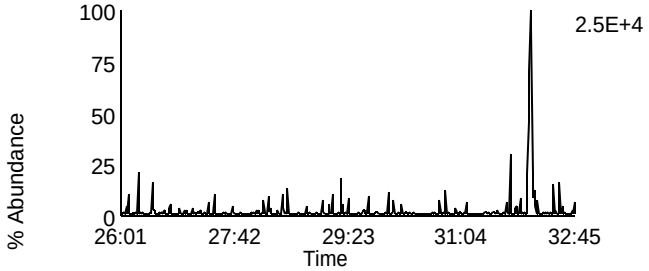
Data File: U140512A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT TC



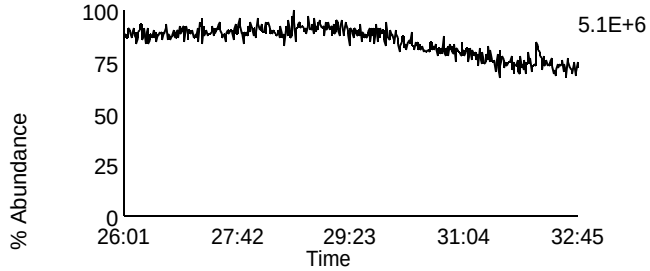
Data File: U140512A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT TC

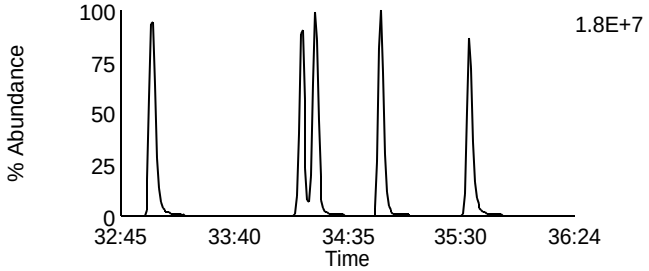


Homologue Group: Hexas

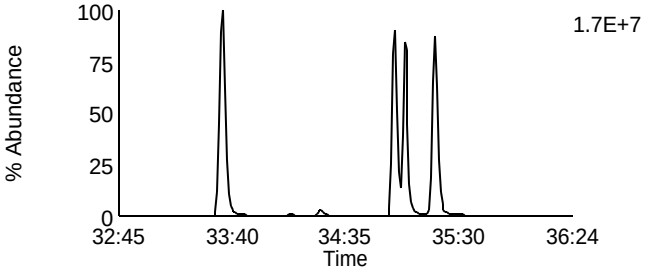
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

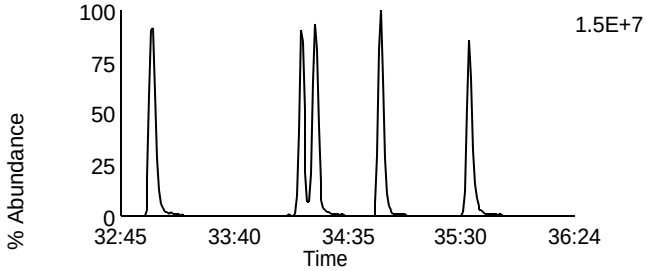
Data File: U140512A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT TC



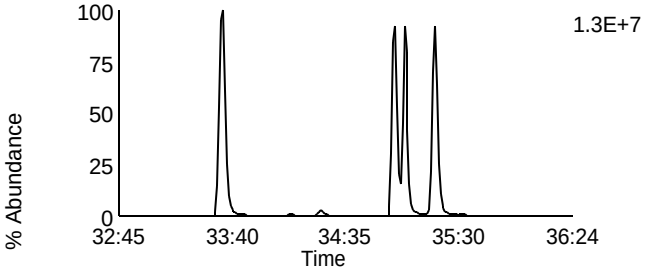
Data File: U140512A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT TC



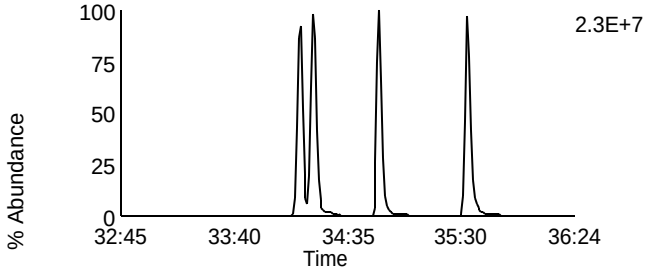
Data File: U140512A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT TC



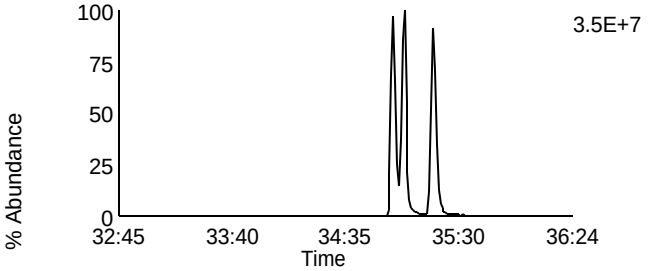
Data File: U140512A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT TC



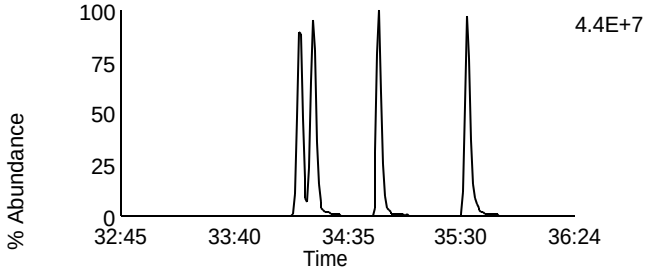
Data File: U140512A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-304 - SMT TC



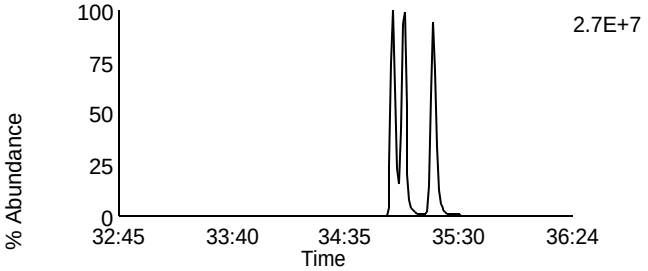
Data File: U140512A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT TC



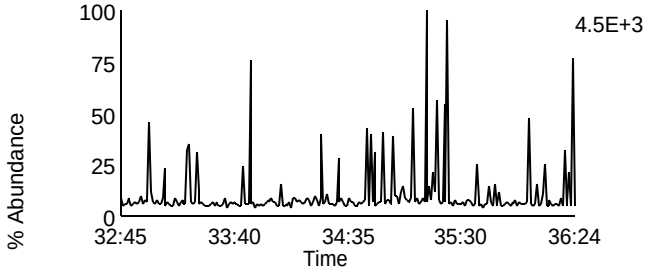
Data File: U140512A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT TC



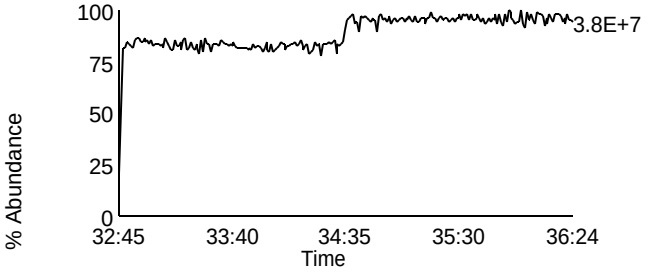
Data File: U140512A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT TC

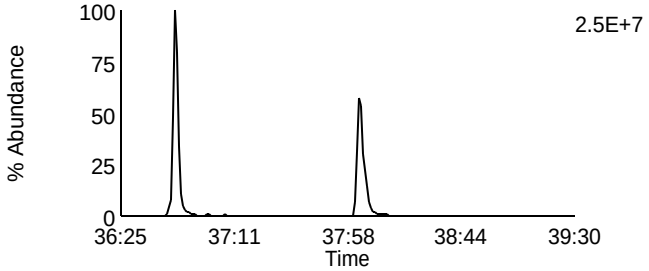


Homologue Group: Heptas

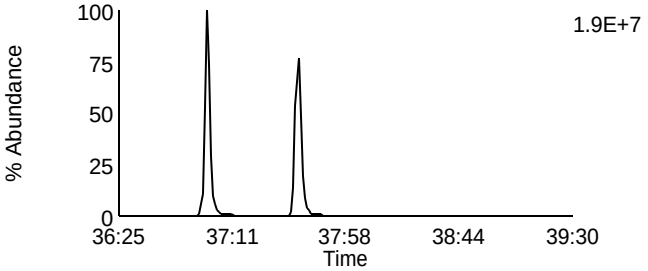
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

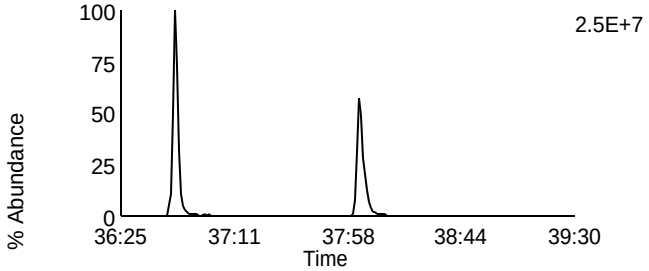
Data File: U140512A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT TC



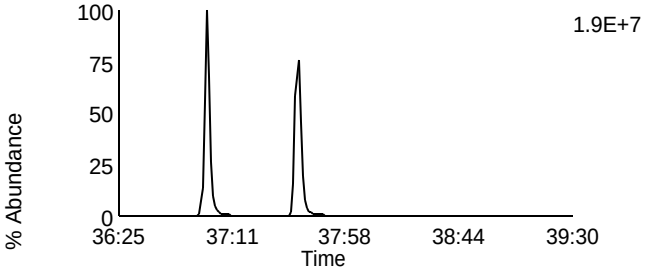
Data File: U140512A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT TC



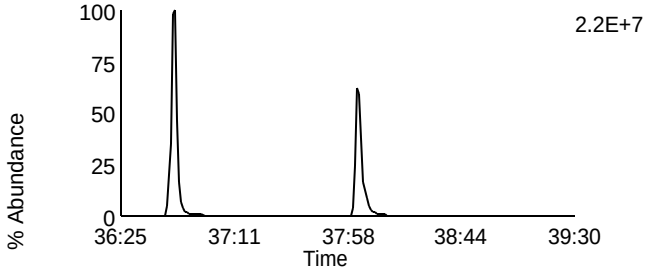
Data File: U140512A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-304 - SMT TC



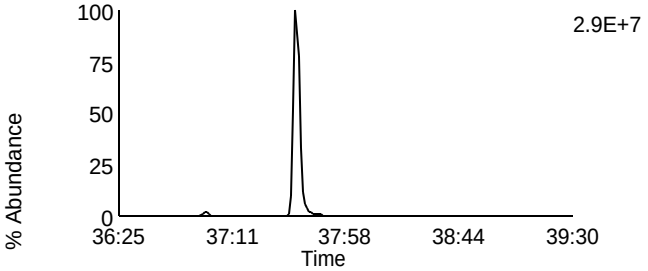
Data File: U140512A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT TC



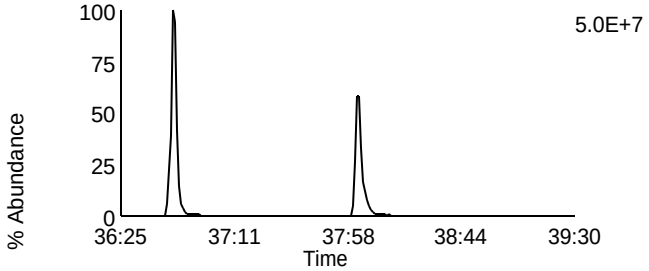
Data File: U140512A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT TC



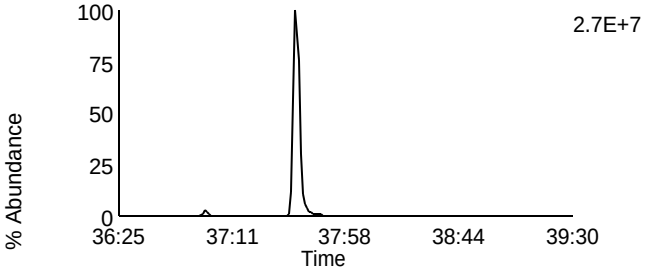
Data File: U140512A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT TC



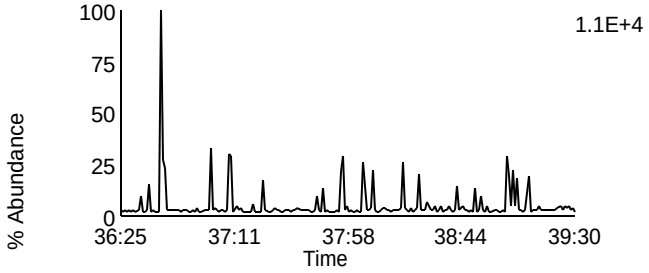
Data File: U140512A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT TC



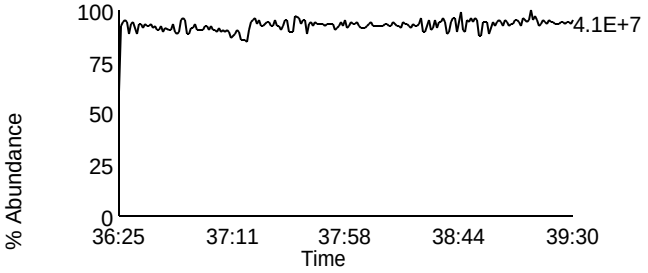
Data File: U140512A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT TC

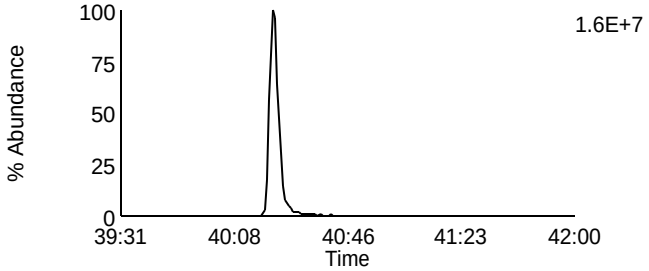


Homologue Group: Octas

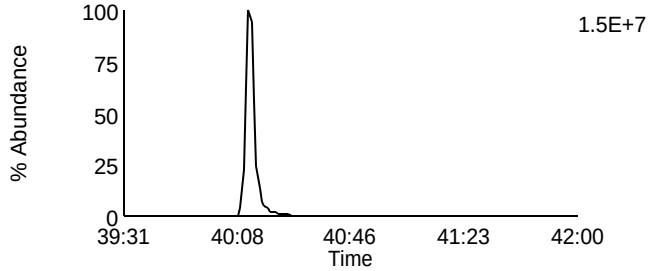
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

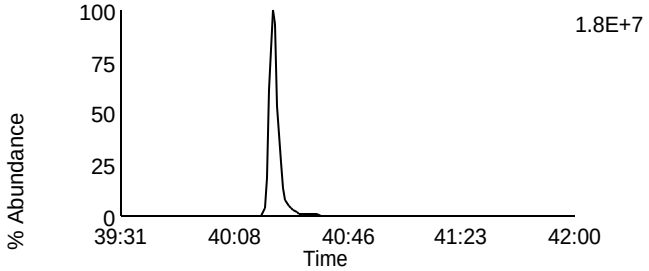
Data File: U140512A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT TC



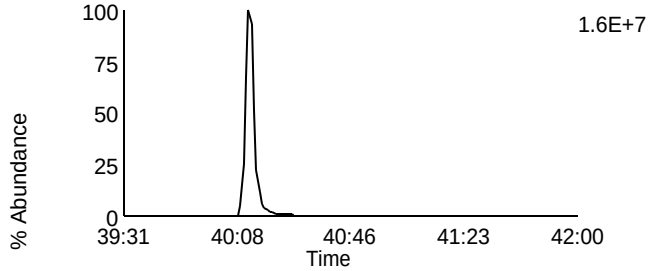
Data File: U140512A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT TC



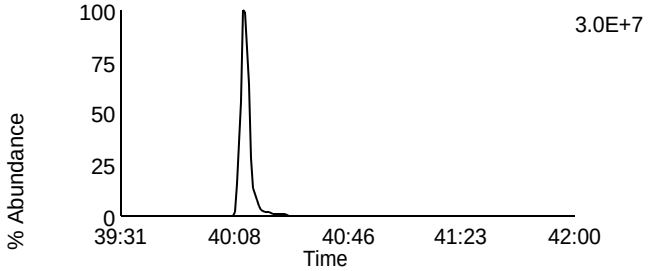
Data File: U140512A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT TC



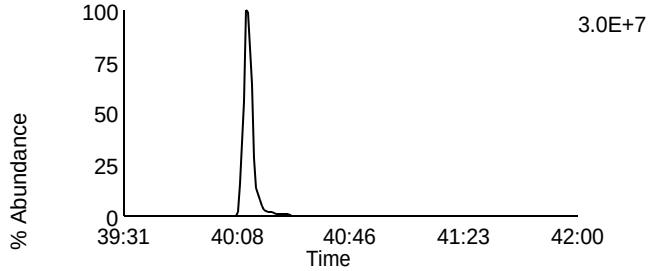
Data File: U140512A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT TC



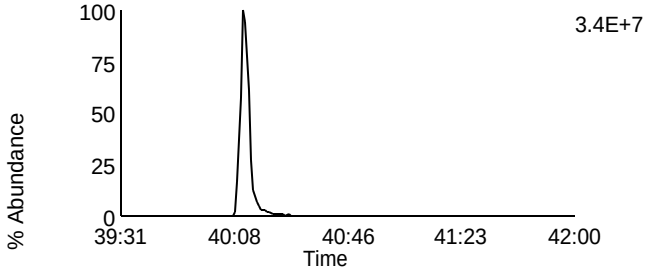
Data File: U140512A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT TC



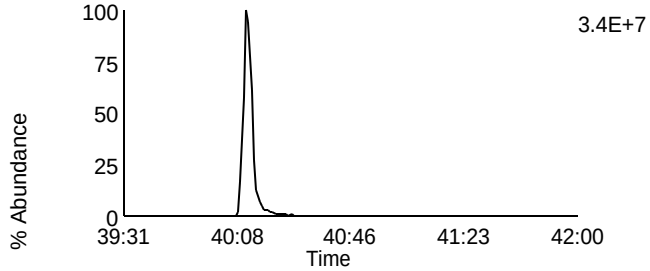
Data File: U140512A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT TC



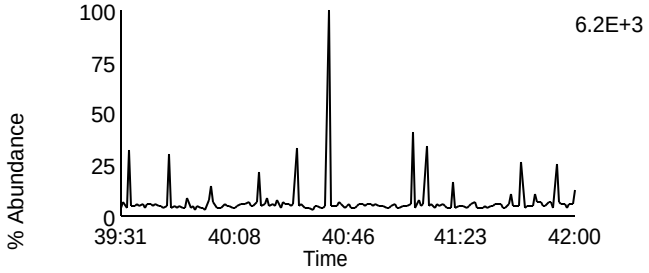
Data File: U140512A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT TC



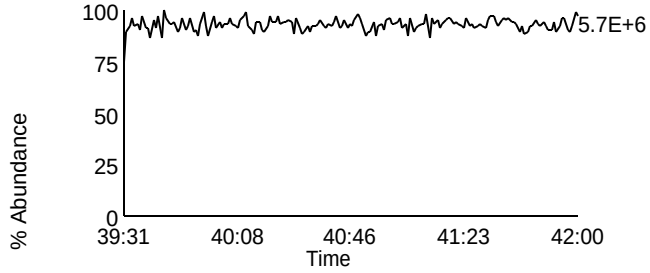
Data File: U140512A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT TC

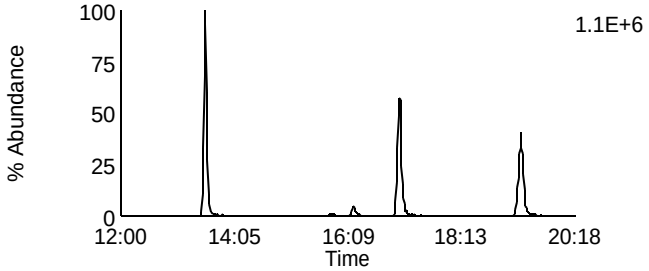


Homologue Group: Tetras

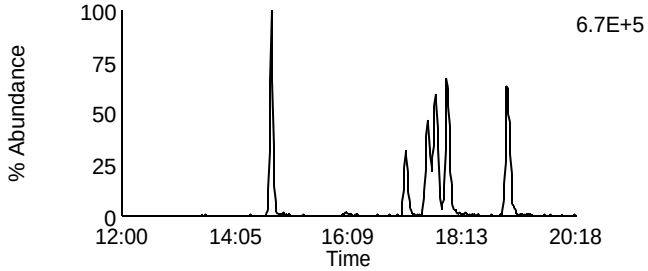
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

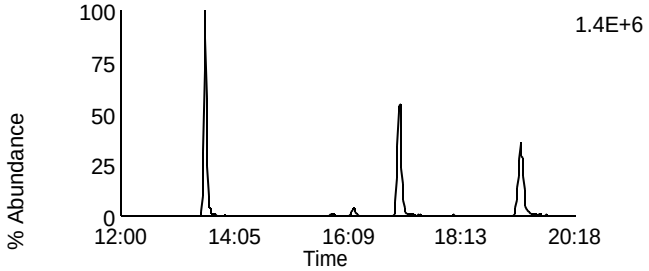
Data File: F140512A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT windows



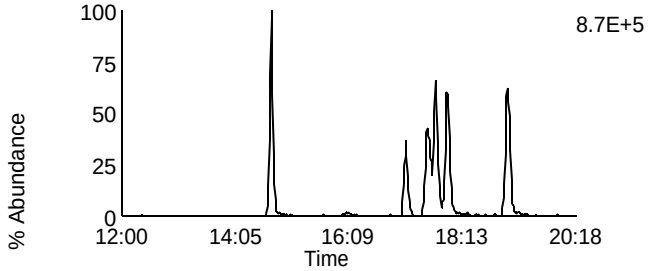
Data File: F140512A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT windows



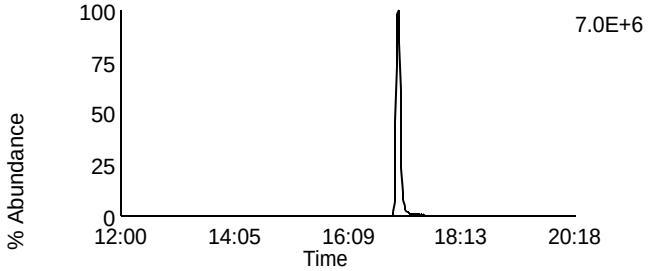
Data File: F140512A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT windows



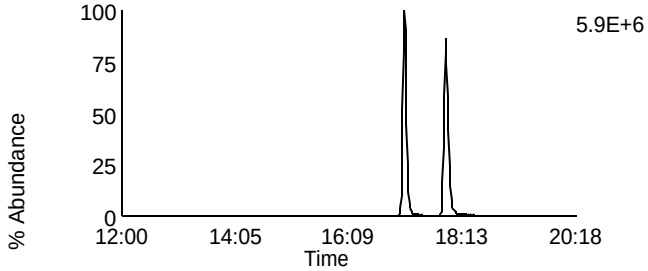
Data File: F140512A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT windows



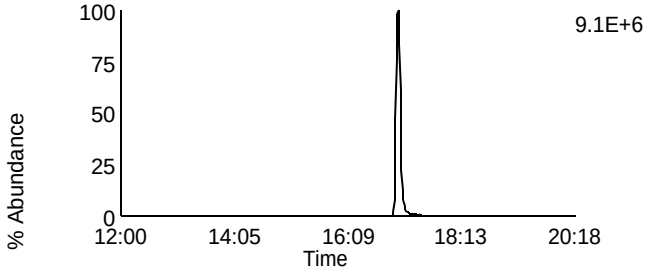
Data File: F140512A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT windows



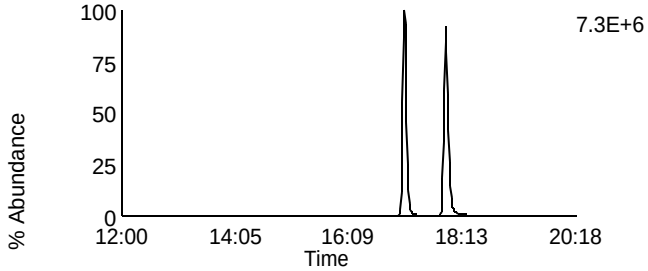
Data File: F140512A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT windows



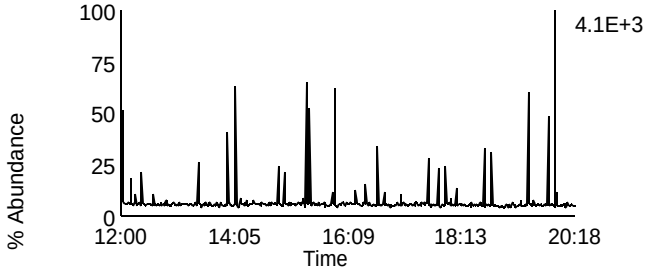
Data File: F140512A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT windows



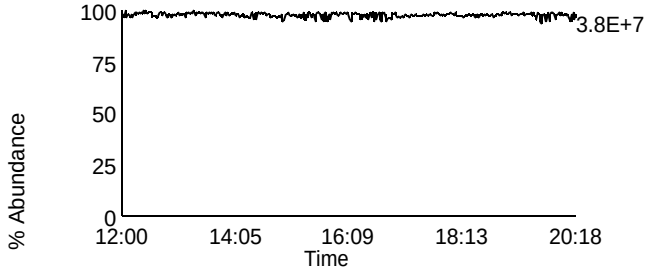
Data File: F140512A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT windows

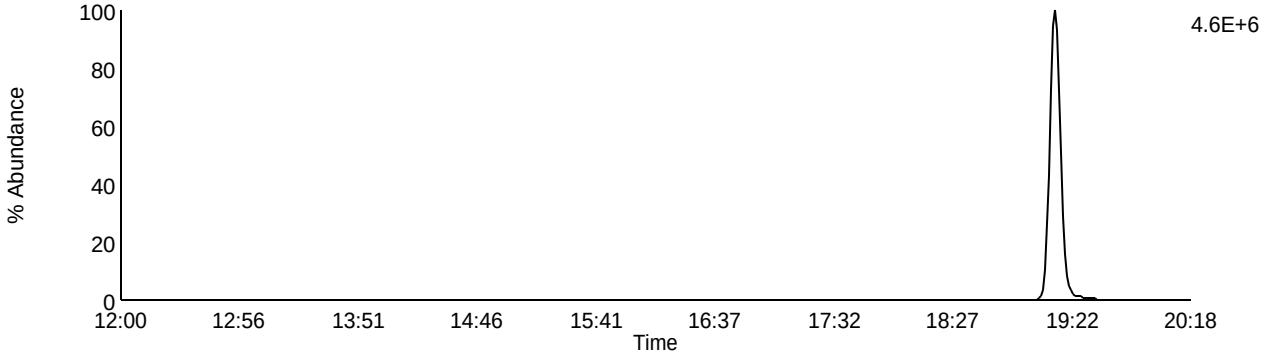


Homologue Group: Penta & Cleanup

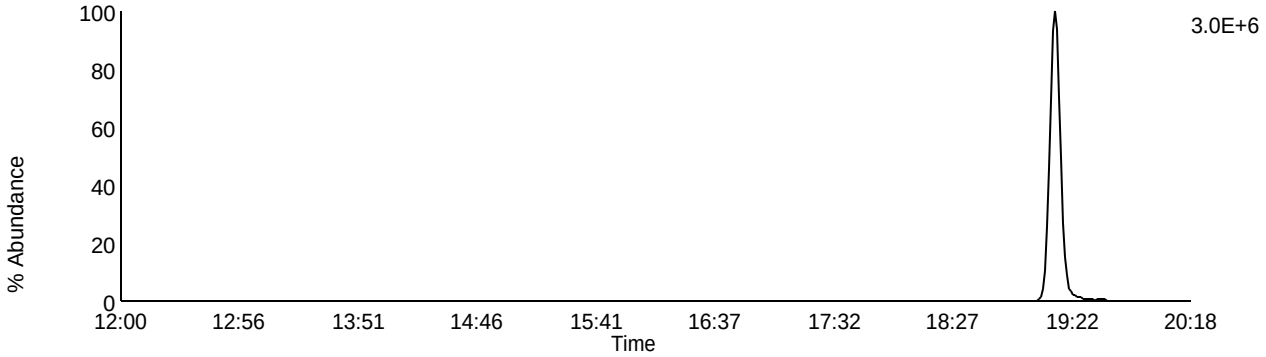
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

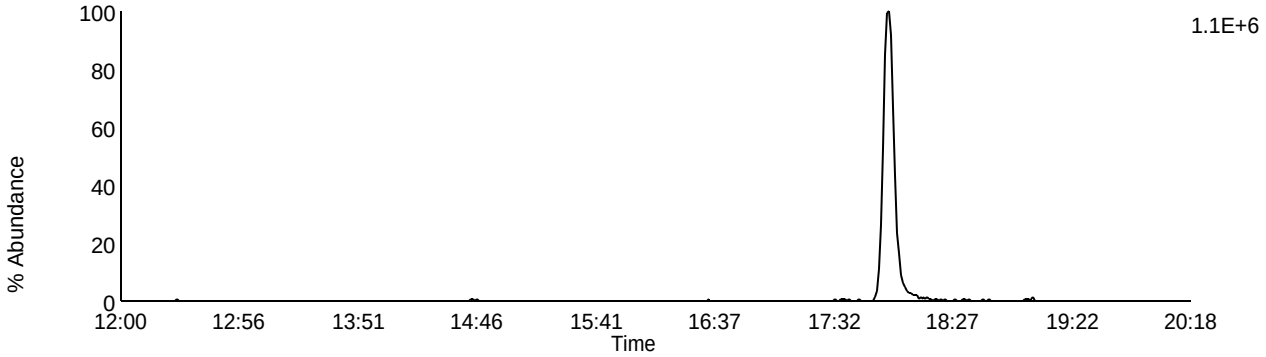
Data File: F140512A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT windows



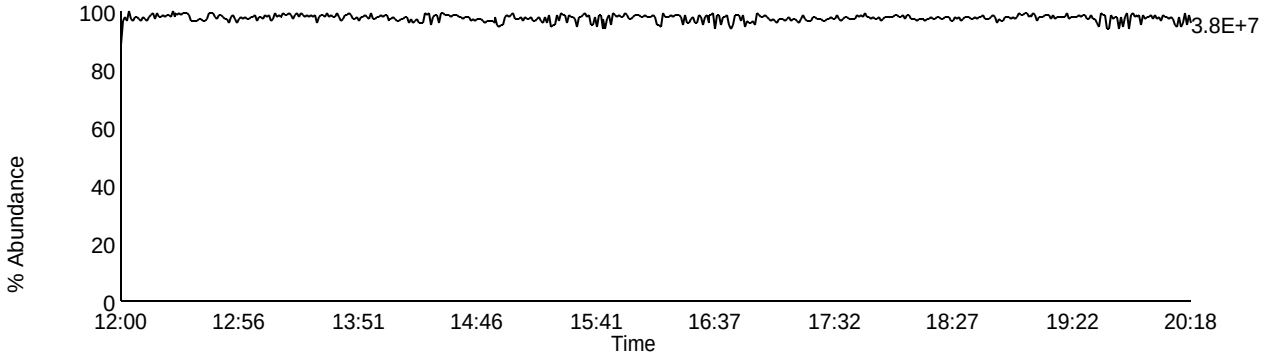
Data File: F140512A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT windows

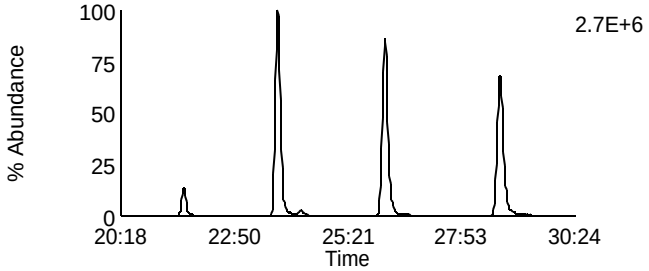


Homologue Group: Pentas

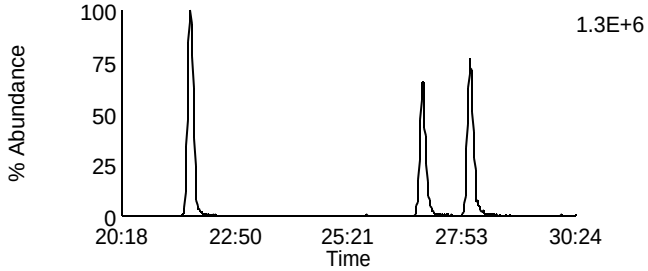
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

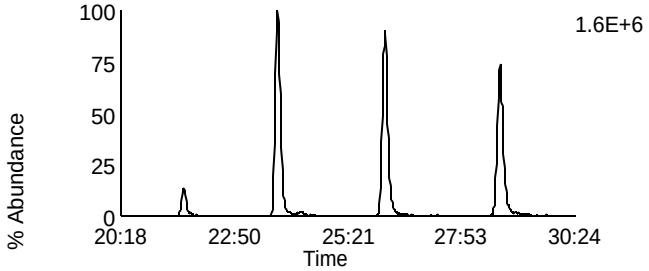
Data File: F140512A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT windows



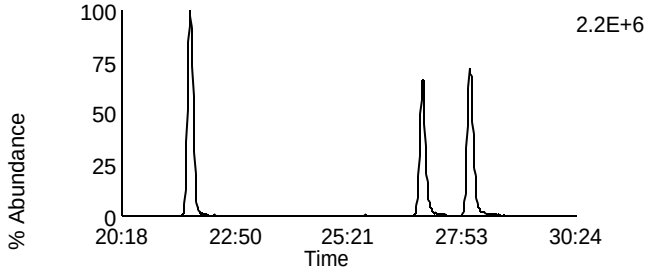
Data File: F140512A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT windows



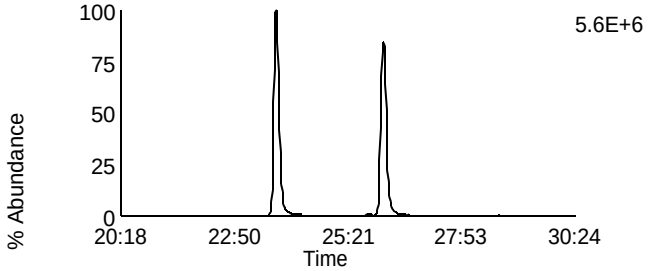
Data File: F140512A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT windows



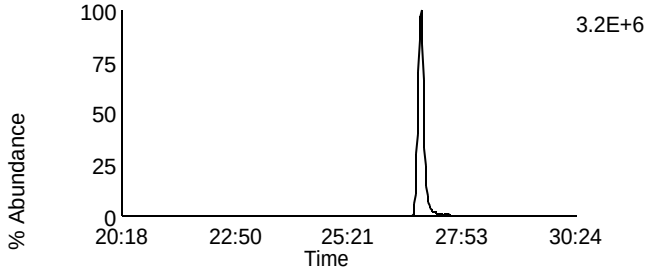
Data File: F140512A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT windows



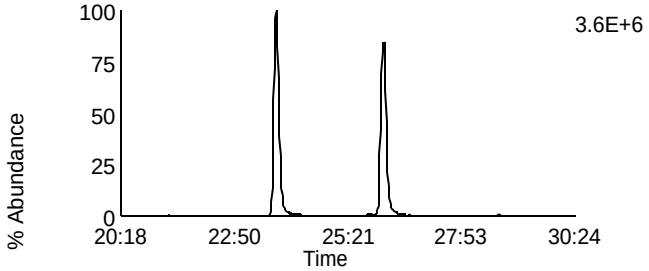
Data File: F140512A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT windows



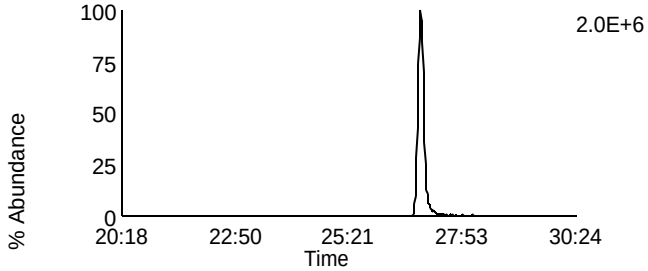
Data File: F140512A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT windows



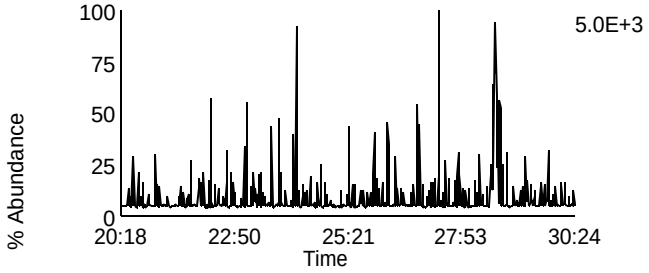
Data File: F140512A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT windows



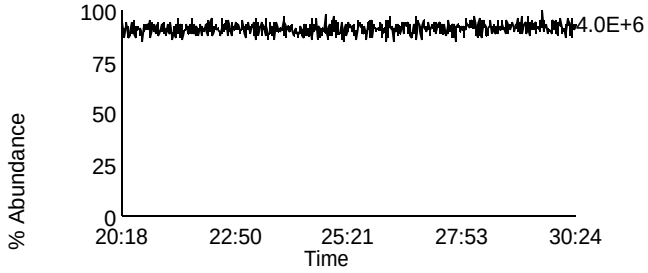
Data File: F140512A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT windows

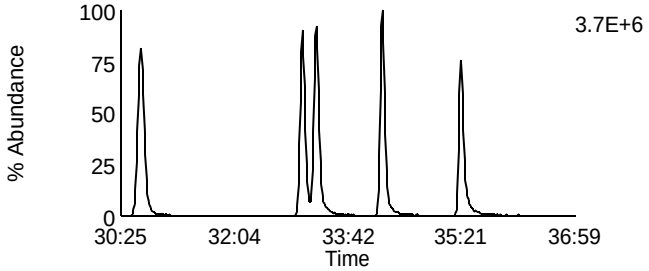


Homologue Group: Hexas

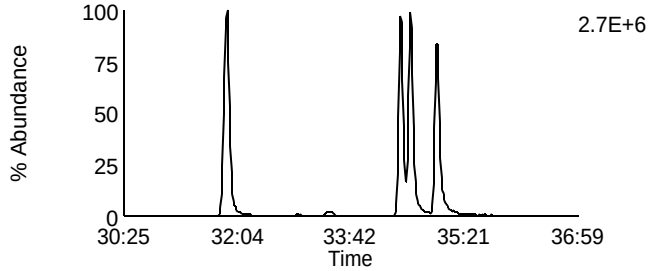
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

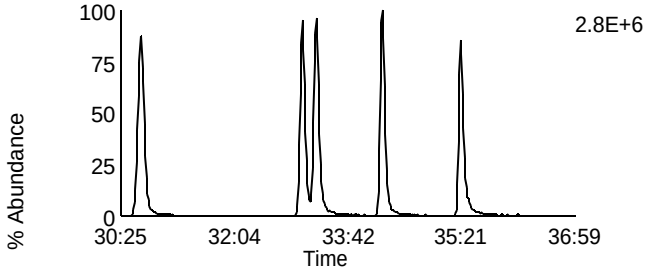
Data File: F140512A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT windows



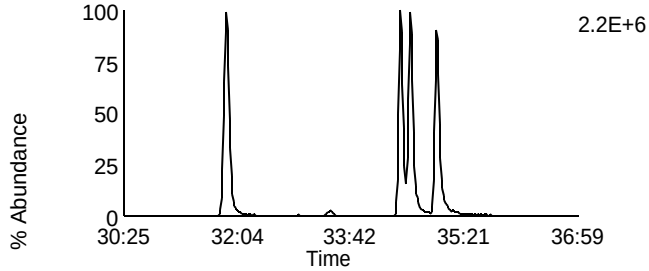
Data File: F140512A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT windows



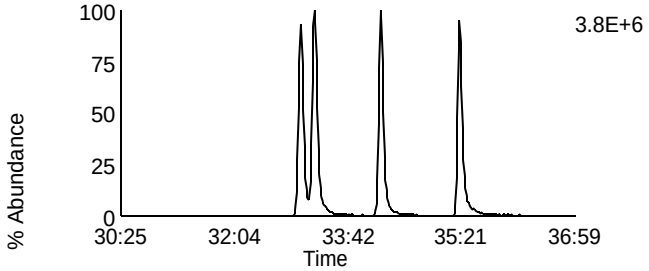
Data File: F140512A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT windows



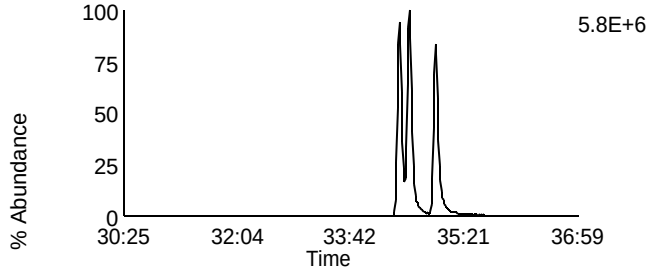
Data File: F140512A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT windows



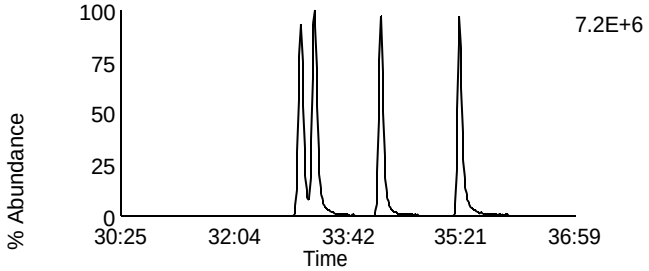
Data File: F140512A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-304 - SMT windows



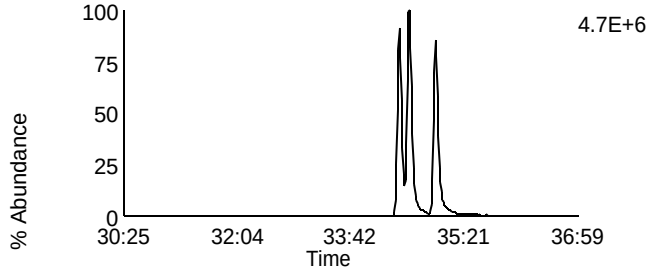
Data File: F140512A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT windows



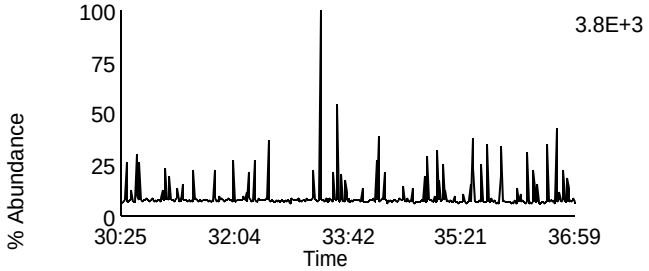
Data File: F140512A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT windows



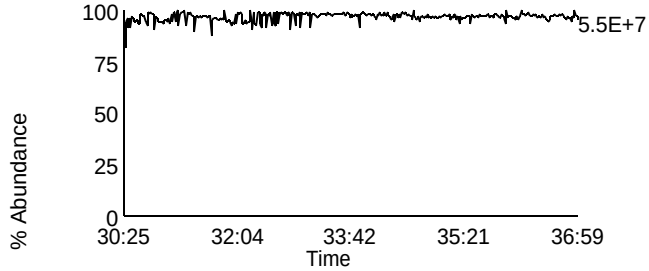
Data File: F140512A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT windows

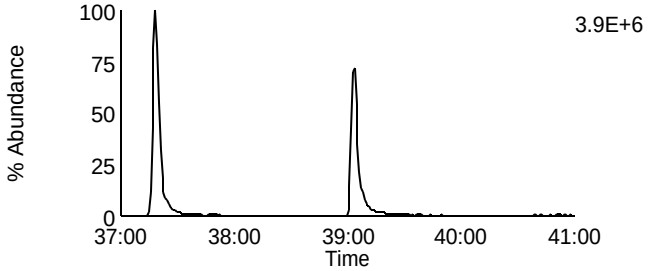


Homologue Group: Heptas

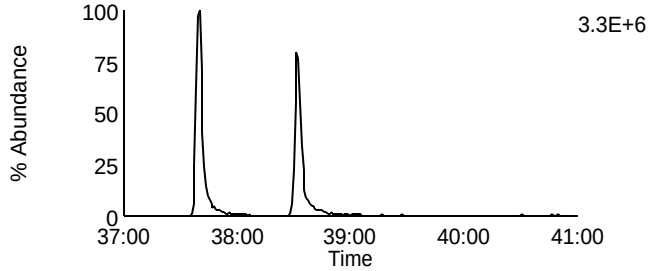
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F140512A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT windows



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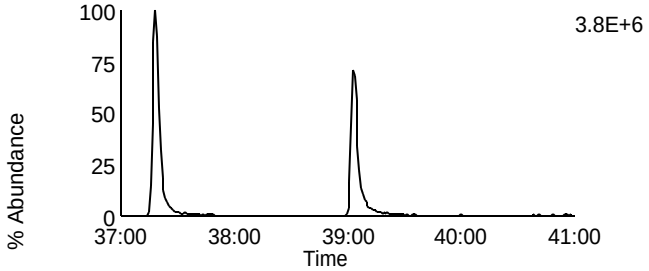
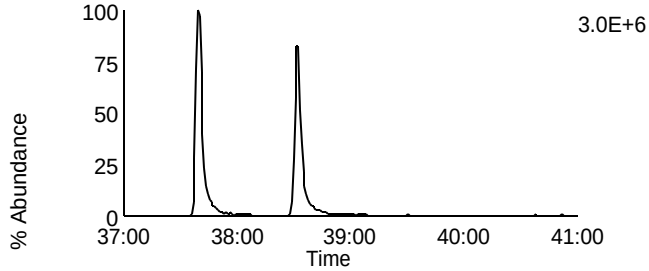
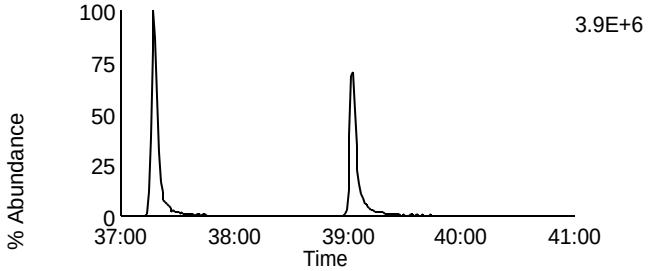
CAL CS3/CPM-7604-304 - SMT windows



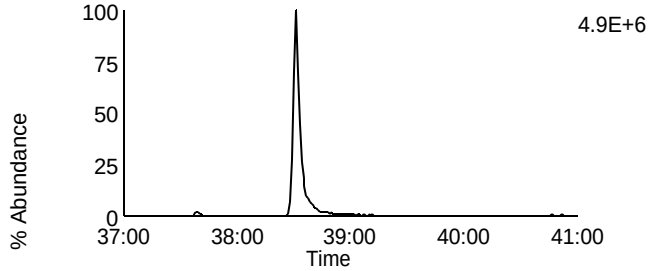
Data File: F140512A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT windows



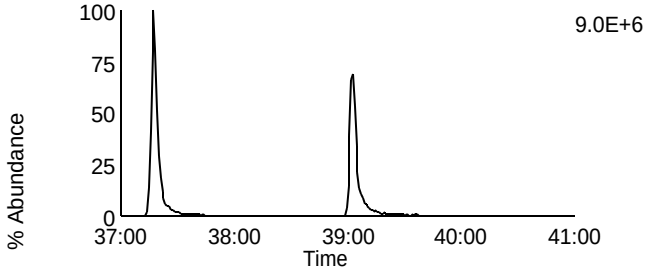
Data File: F140512A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT windows



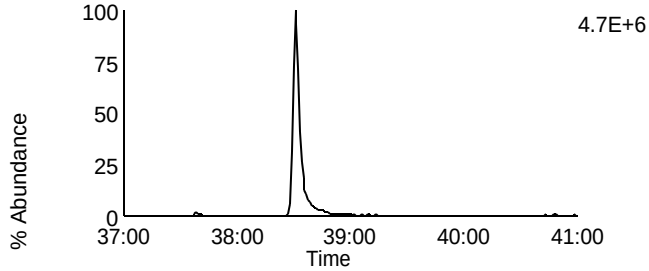
Data File: F140512A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT windows



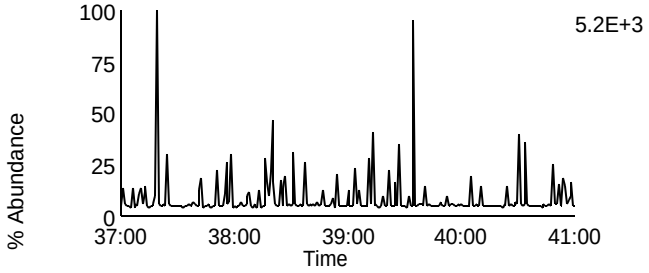
Data File: F140512A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT windows



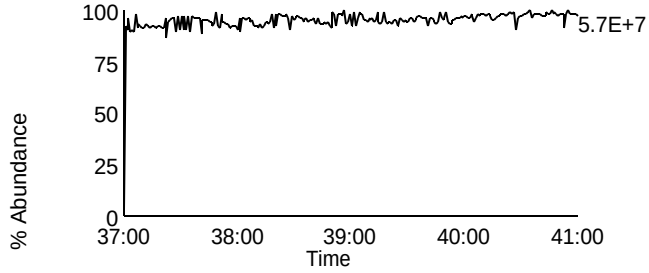
Data File: F140512A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT windows

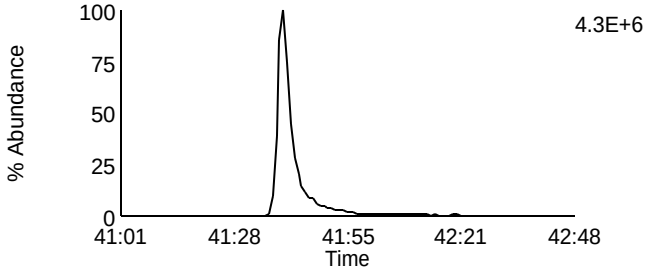


Homologue Group: Octas

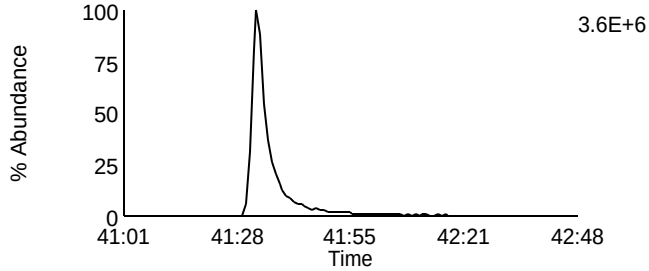
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR05 (F)

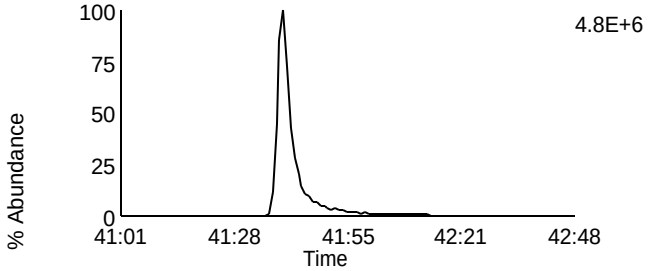
Data File: F140512A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT windows



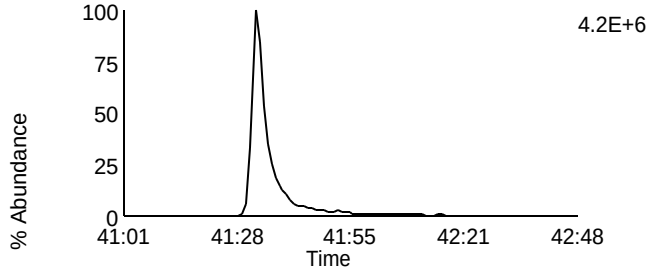
Data File: F140512A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT windows



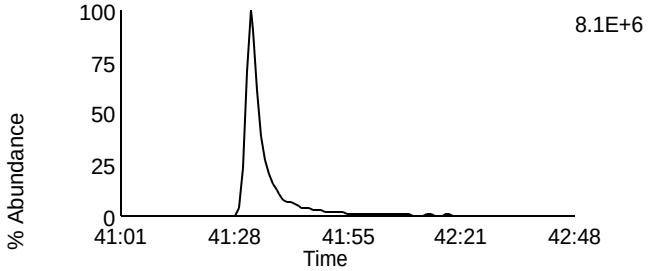
Data File: F140512A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT windows



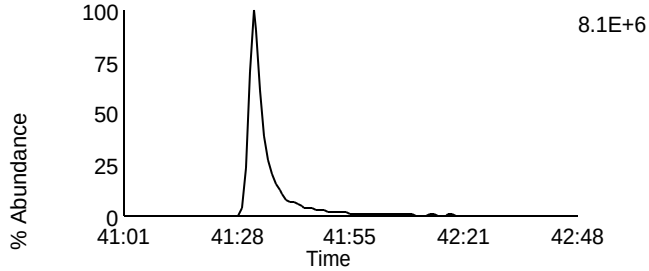
Data File: F140512A_03 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT windows



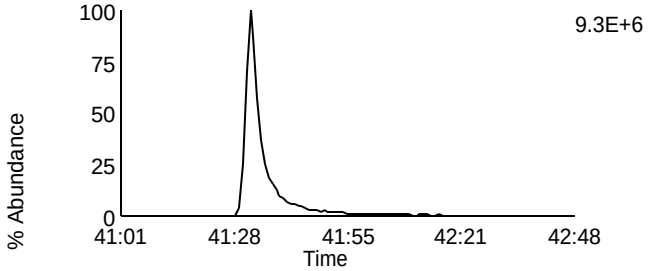
Data File: F140512A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT windows



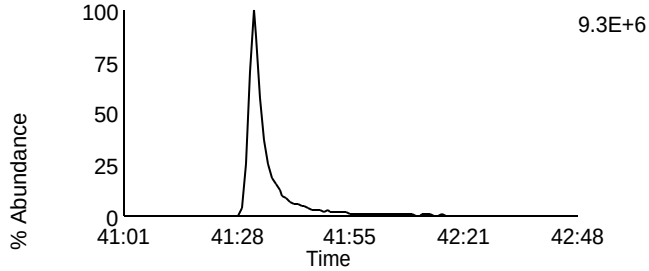
Data File: F140512A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT windows



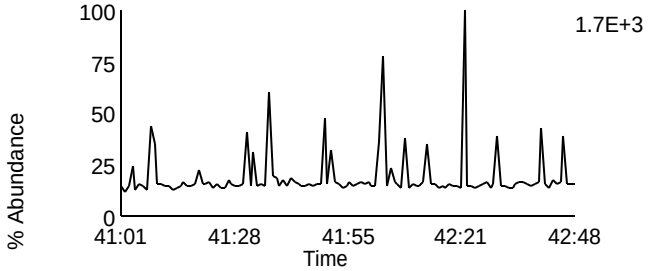
Data File: F140512A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT windows



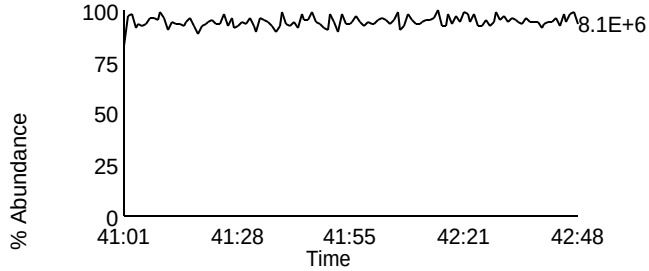
Data File: F140512A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT windows

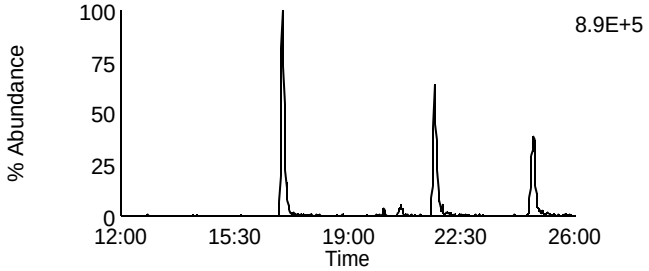


Homologue Group: Tetras

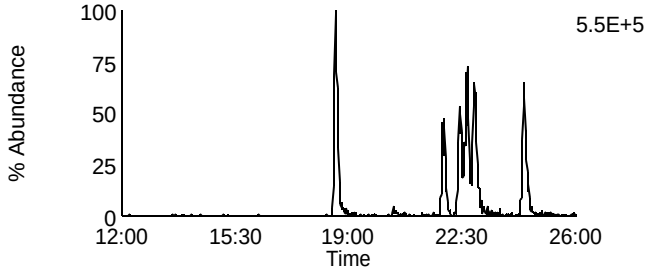
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

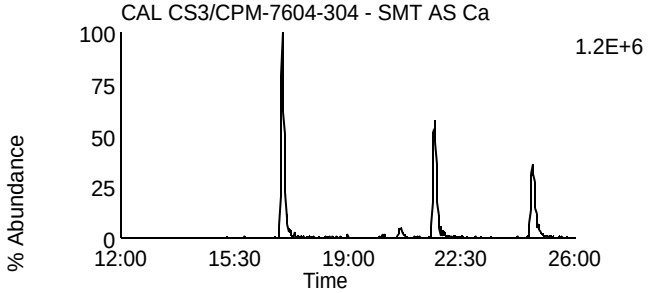
Data File: U140513A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT AS Ca



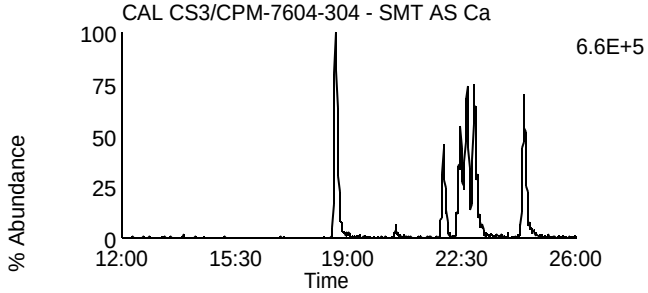
Data File: U140513A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT AS Ca



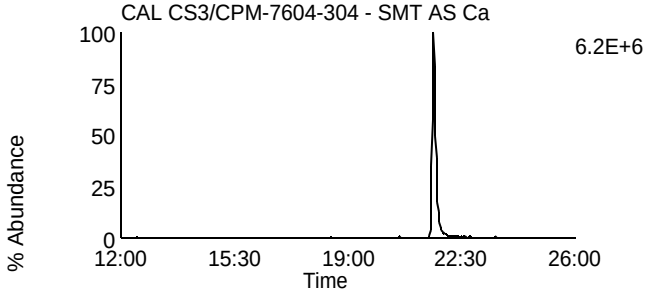
Data File: U140513A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT AS Ca



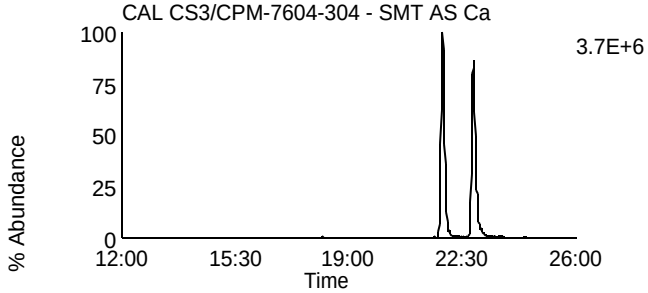
Data File: U140513A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT AS Ca



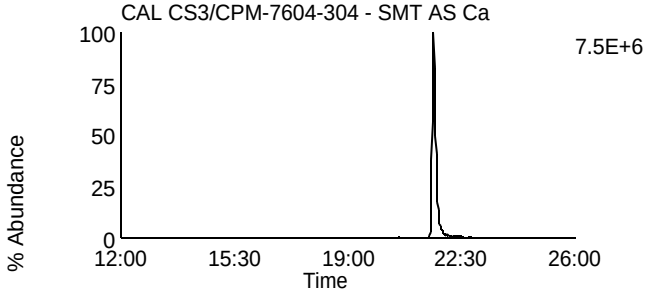
Data File: U140513A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT AS Ca



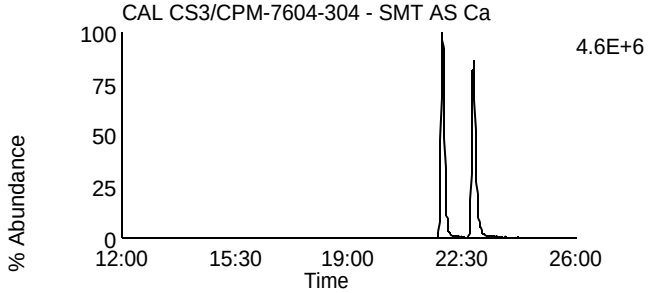
Data File: U140513A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT AS Ca



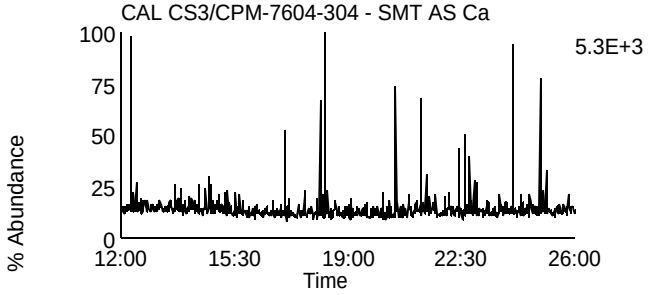
Data File: U140513A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT AS Ca



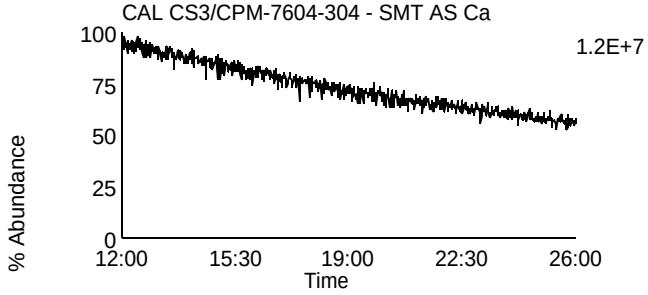
Data File: U140513A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

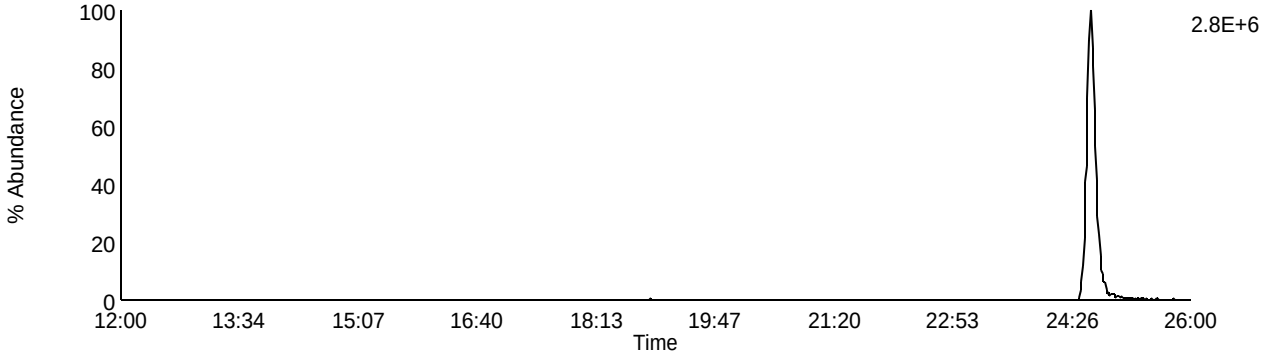


Homologue Group: Penta & Cleanup

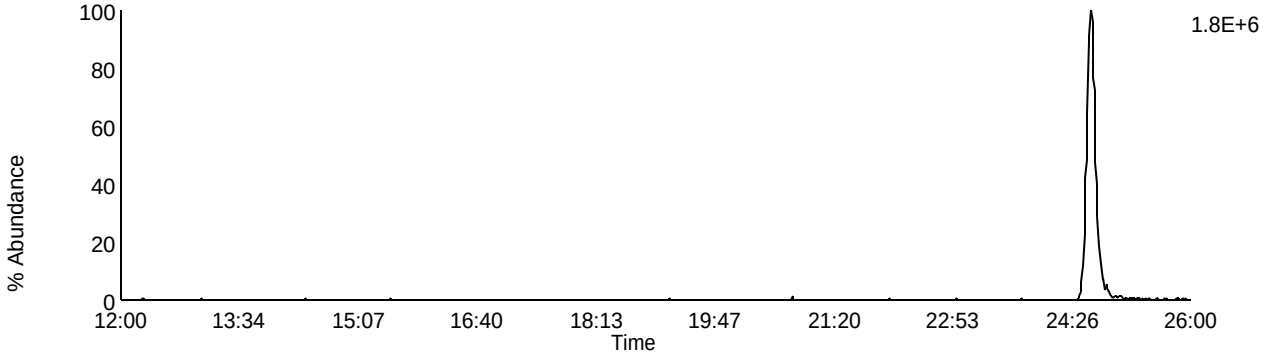
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

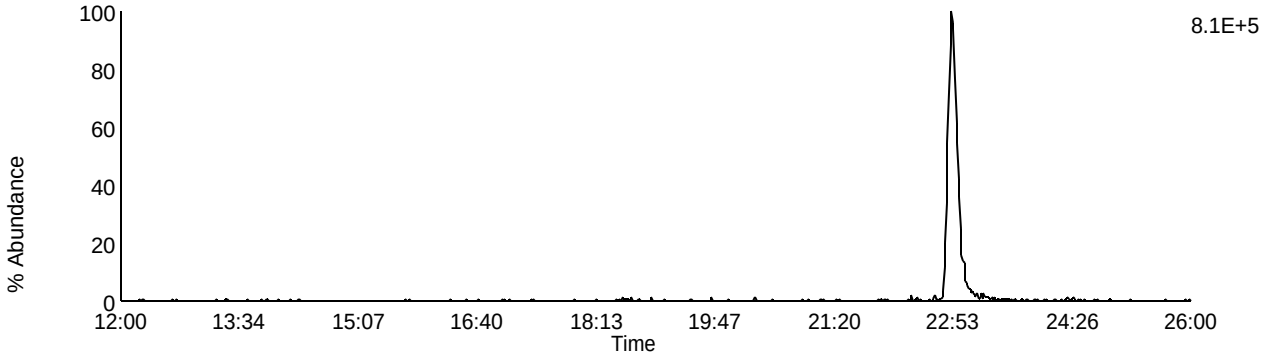
Data File: U140513A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT AS Ca



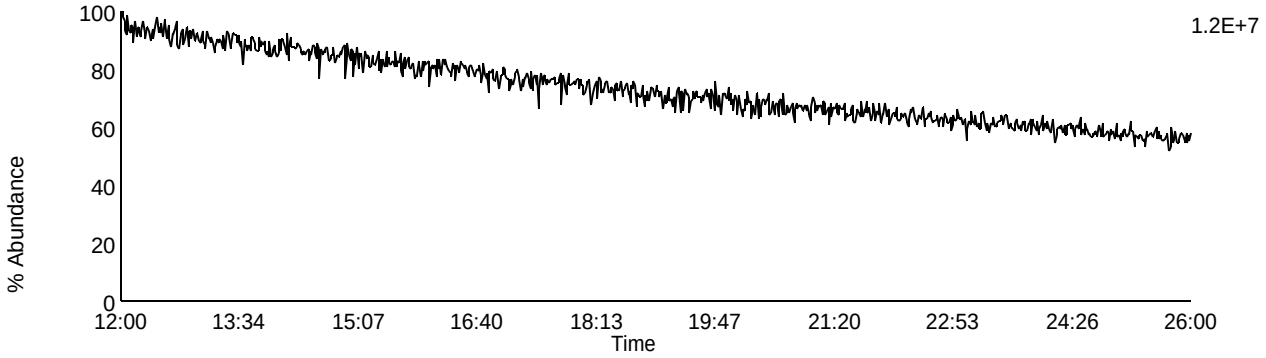
Data File: U140513A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

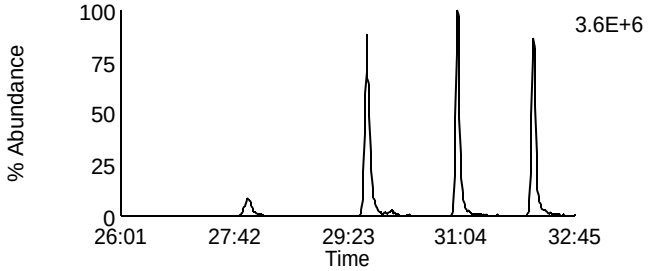


Homologue Group: Pentas

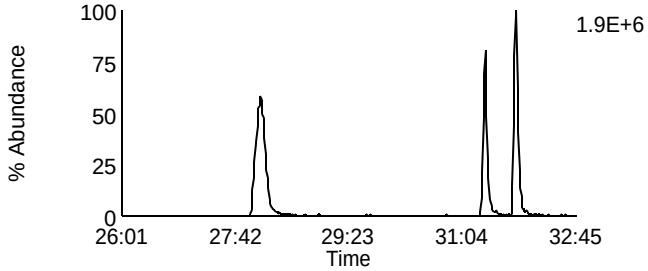
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

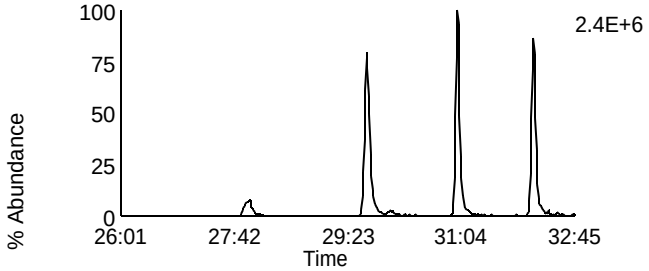
Data File: U140513A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT AS Ca



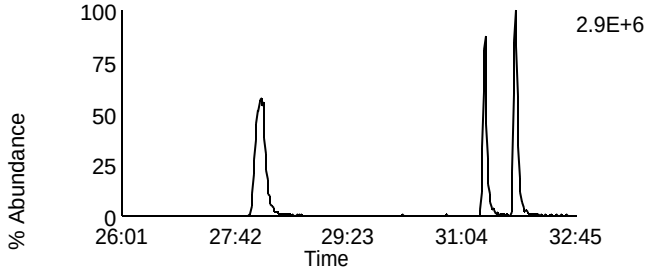
Data File: U140513A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT AS Ca



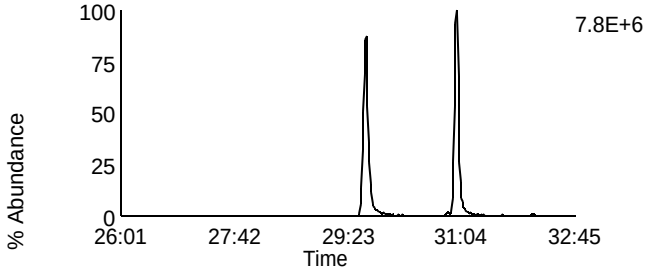
Data File: U140513A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT AS Ca



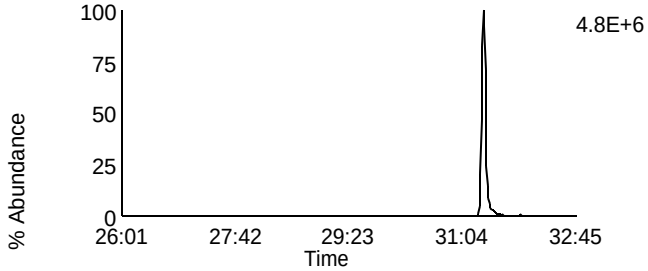
Data File: U140513A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT AS Ca



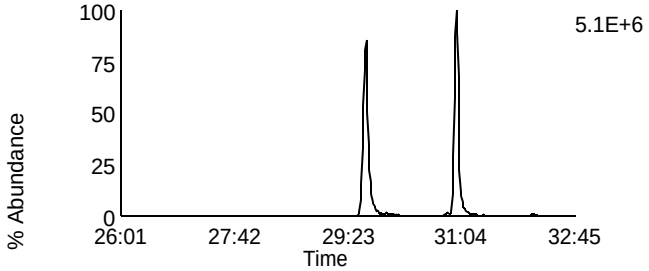
Data File: U140513A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT AS Ca



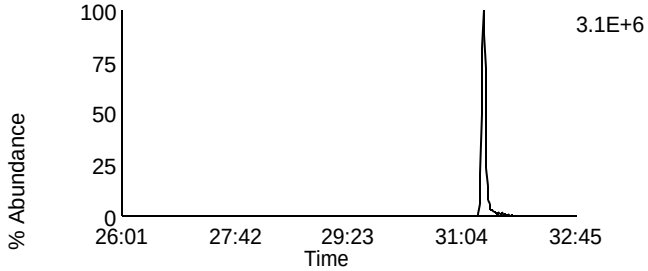
Data File: U140513A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT AS Ca



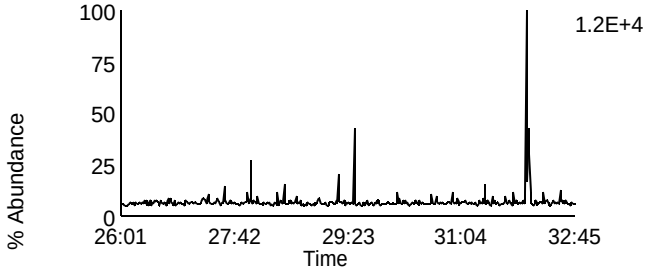
Data File: U140513A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT AS Ca



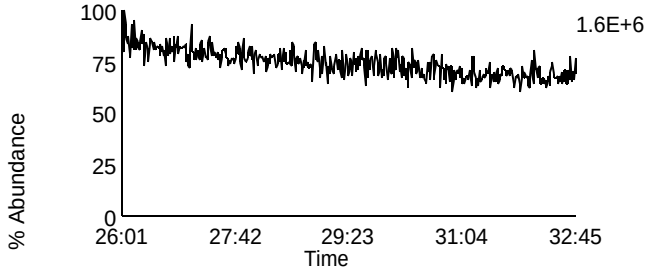
Data File: U140513A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

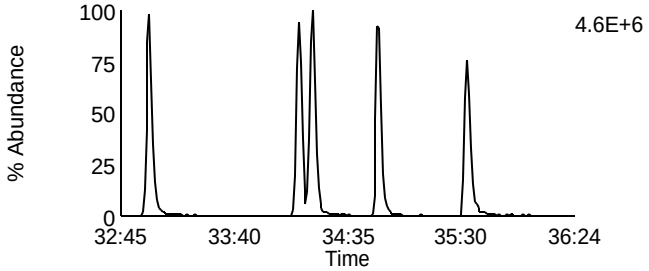


Homologue Group: Hexas

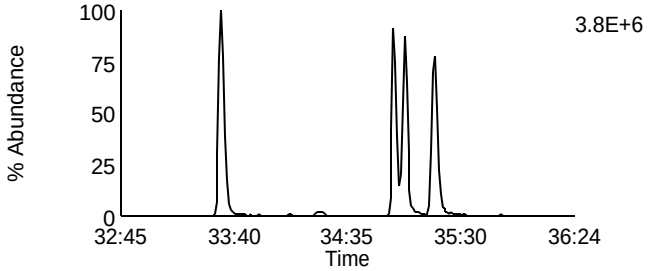
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

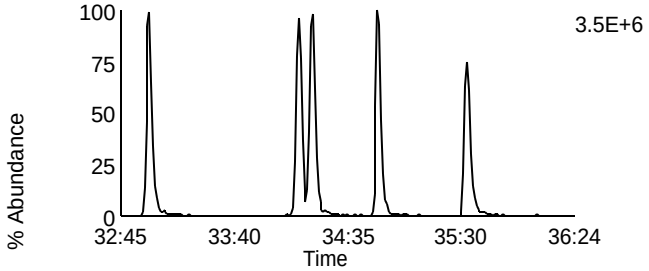
Data File: U140513A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT AS Ca



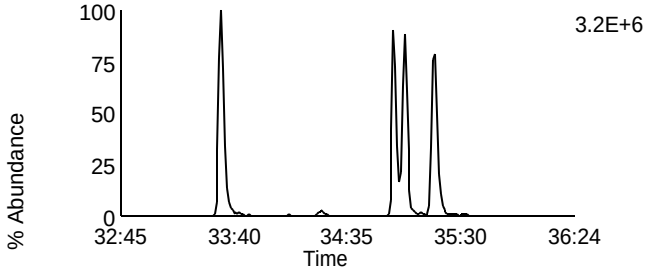
Data File: U140513A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT AS Ca



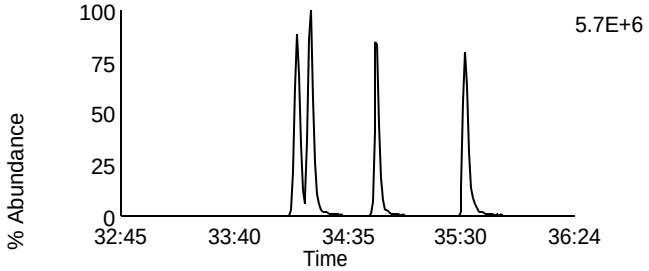
Data File: U140513A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT AS Ca



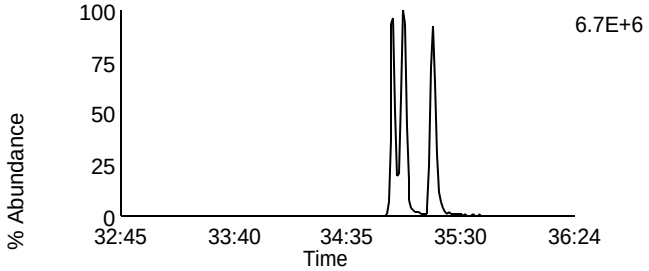
Data File: U140513A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT AS Ca



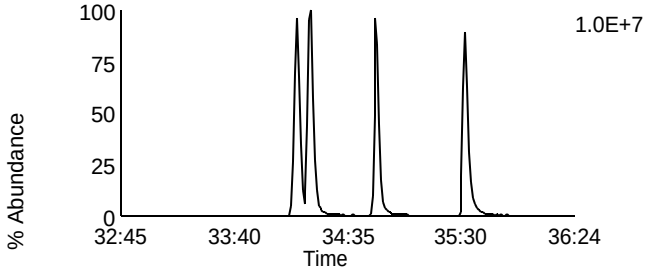
Data File: U140513A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-304 - SMT AS Ca



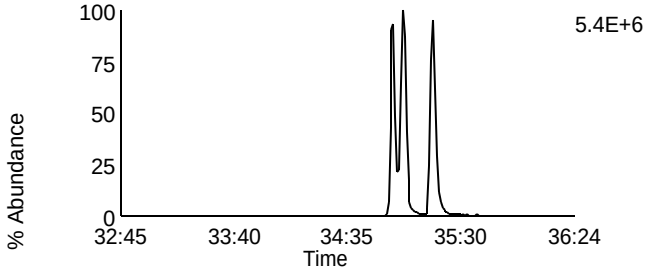
Data File: U140513A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT AS Ca



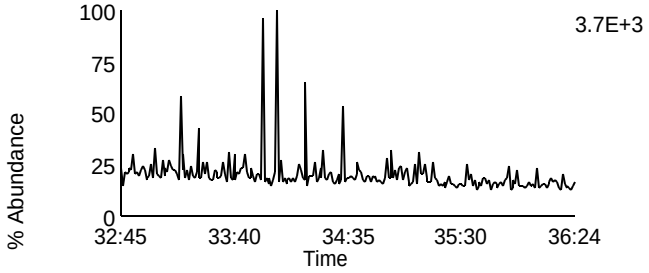
Data File: U140513A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT AS Ca



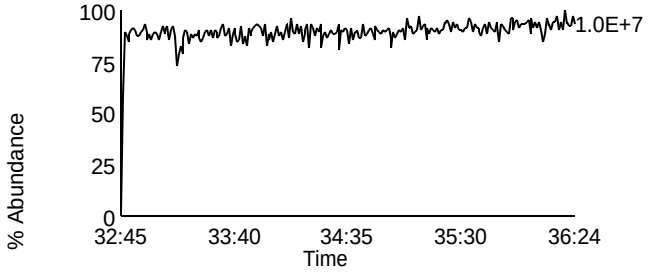
Data File: U140513A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT AS Ca

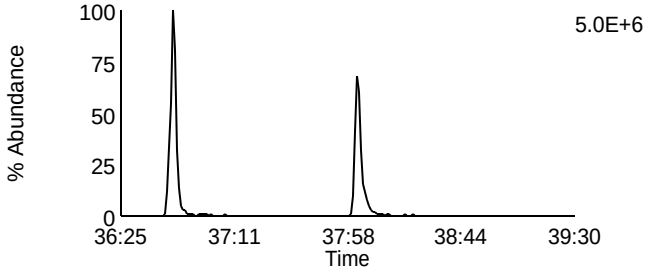


Homologue Group: Heptas

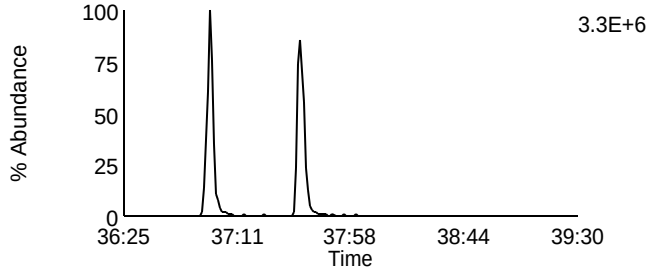
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

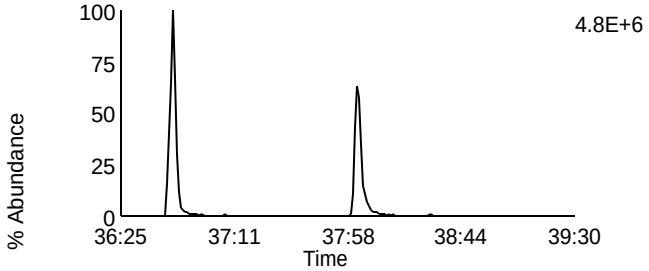
Data File: U140513A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT AS Ca



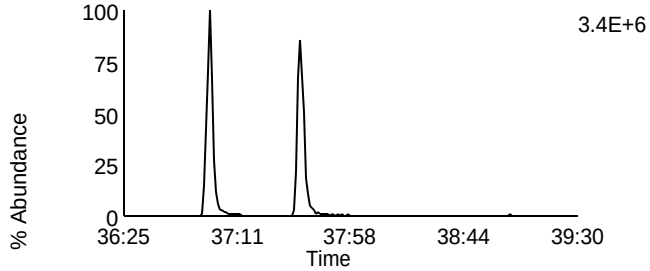
Data File: U140513A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT AS Ca



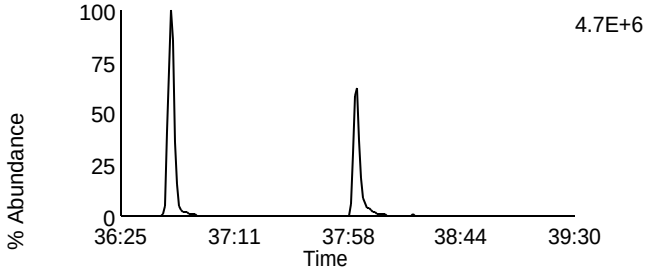
Data File: U140513A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-304 - SMT AS Ca



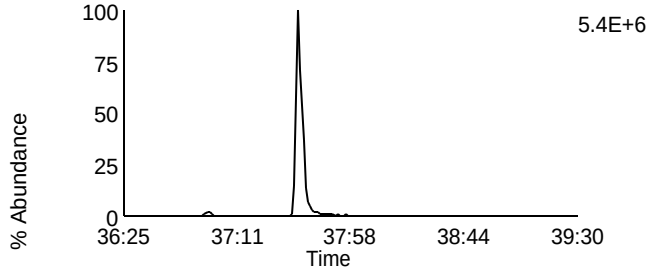
Data File: U140513A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT AS Ca



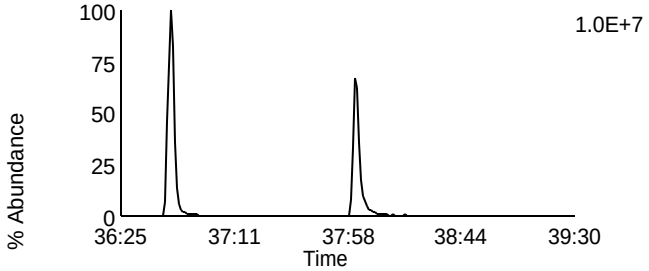
Data File: U140513A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT AS Ca



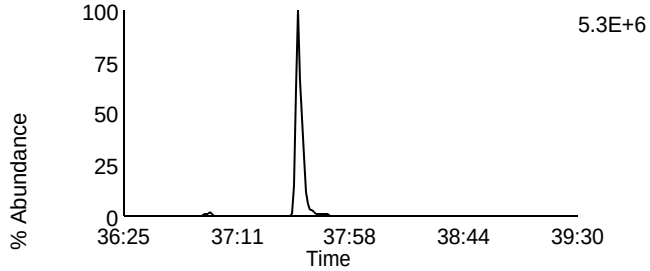
Data File: U140513A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT AS Ca



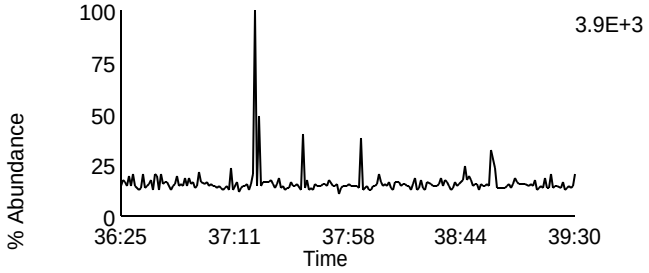
Data File: U140513A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT AS Ca



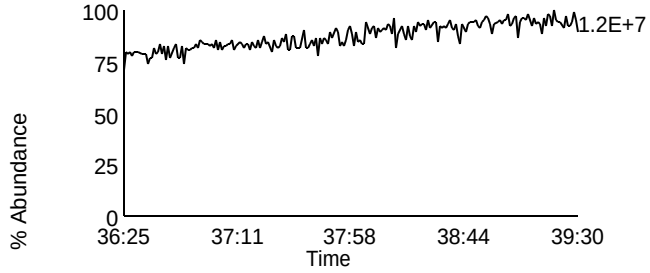
Data File: U140513A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT AS Ca

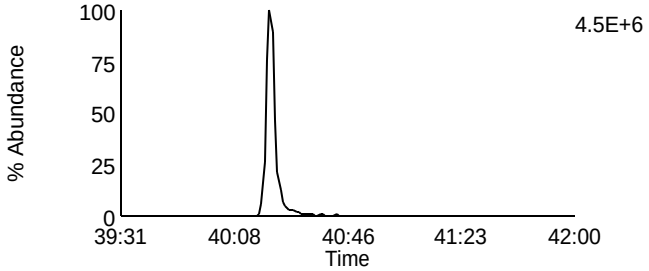


Homologue Group: Octas

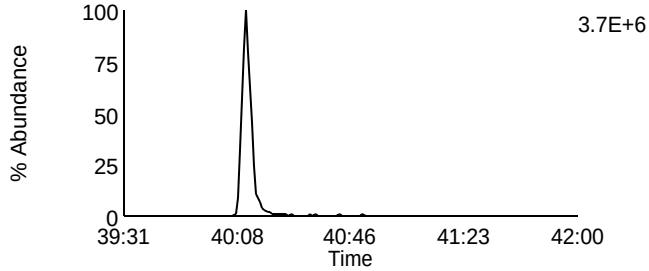
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

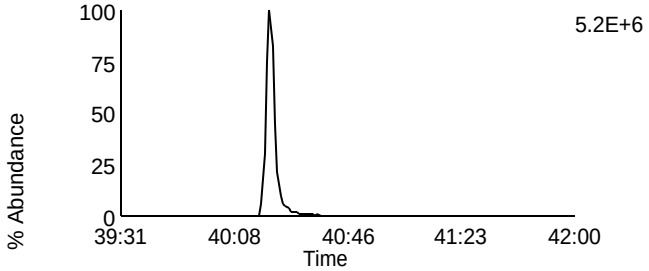
Data File: U140513A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT AS Ca



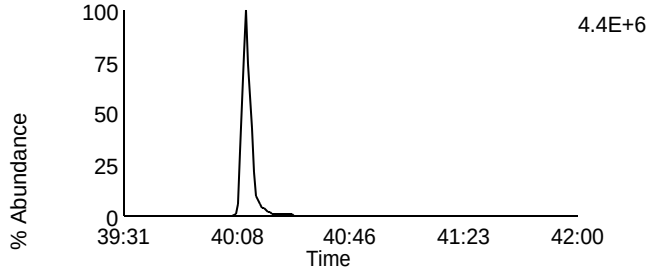
Data File: U140513A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT AS Ca



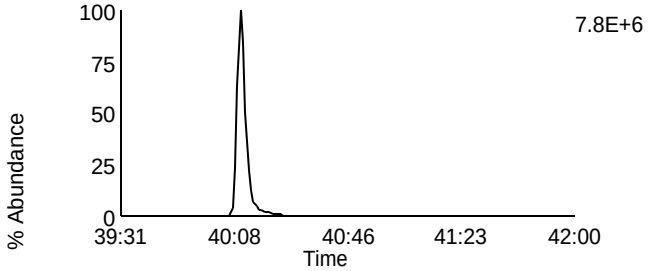
Data File: U140513A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT AS Ca



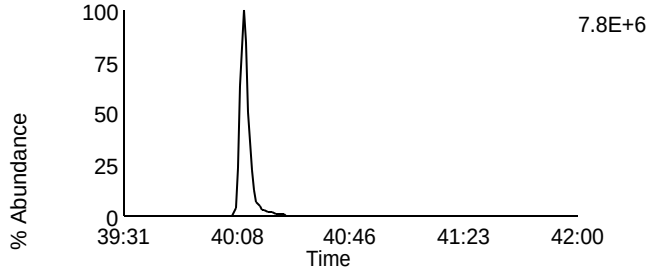
Data File: U140513A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT AS Ca



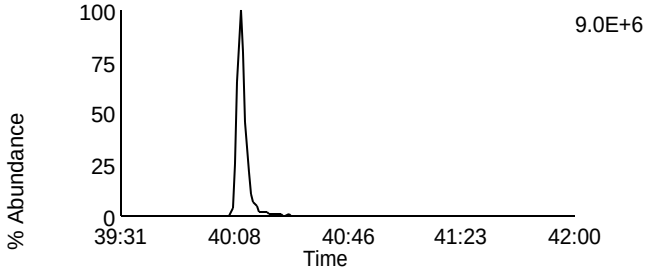
Data File: U140513A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT AS Ca



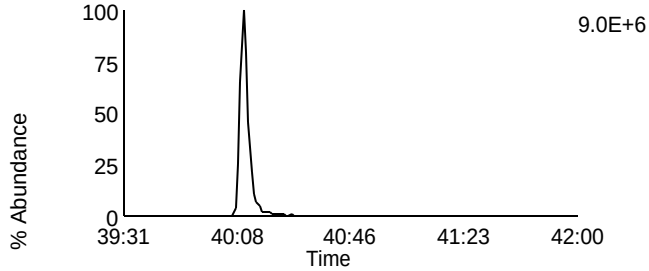
Data File: U140513A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT AS Ca



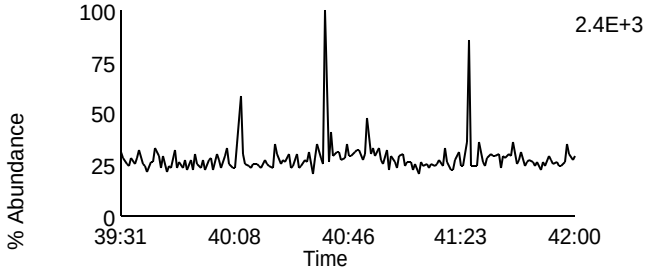
Data File: U140513A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT AS Ca



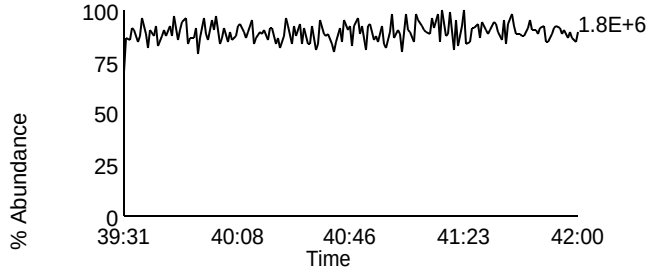
Data File: U140513A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT AS Ca

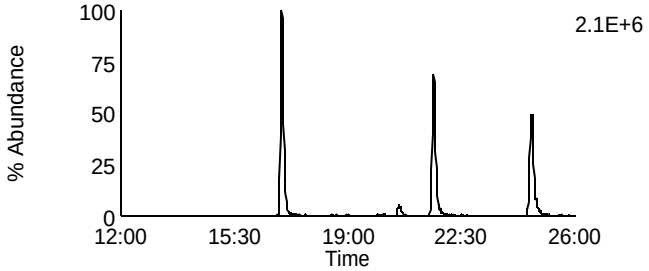


Homologue Group: Tetras

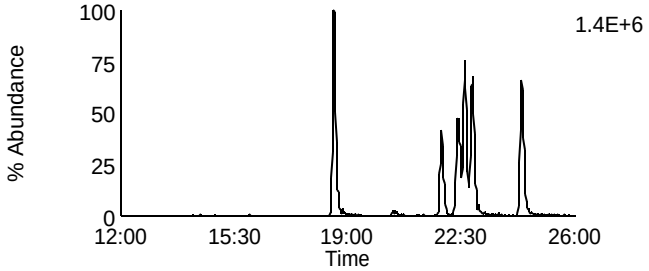
Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

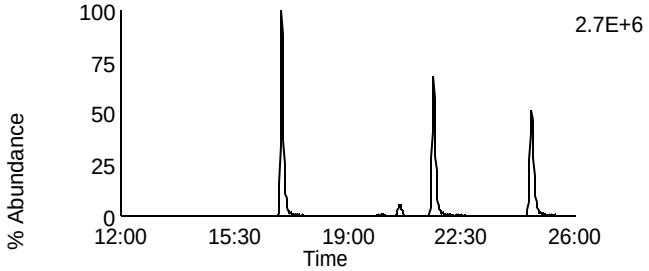
Data File: U140513A_17 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - CVS



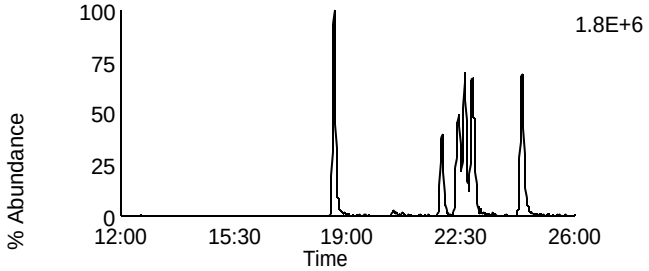
Data File: U140513A_17 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - CVS



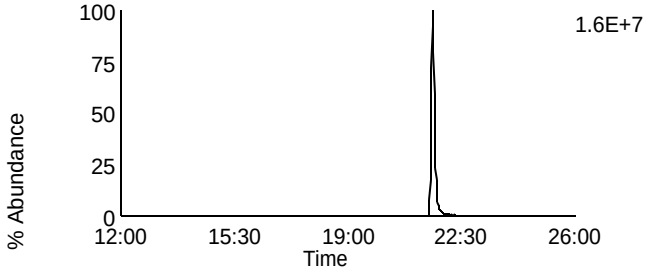
Data File: U140513A_17 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - CVS



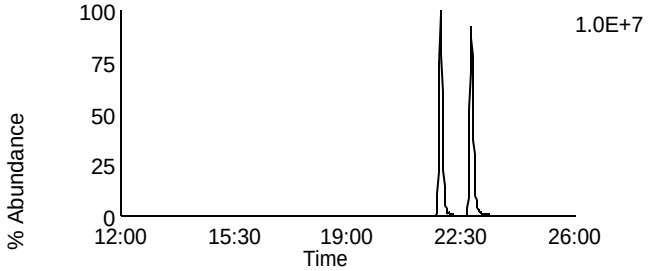
Data File: U140513A_17 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - CVS



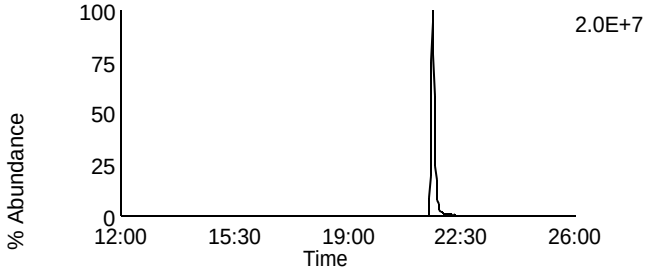
Data File: U140513A_17 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - CVS



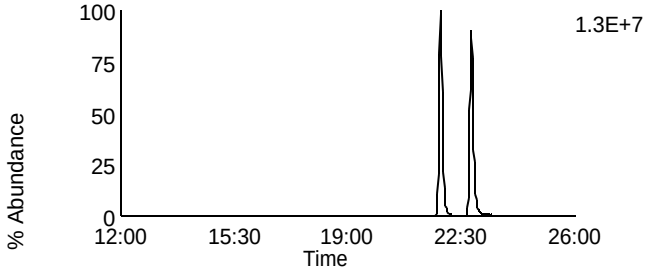
Data File: U140513A_17 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - CVS



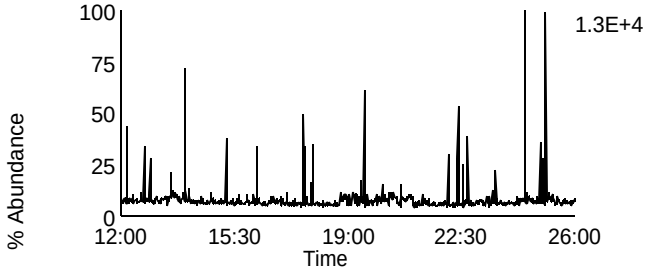
Data File: U140513A_17 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - CVS



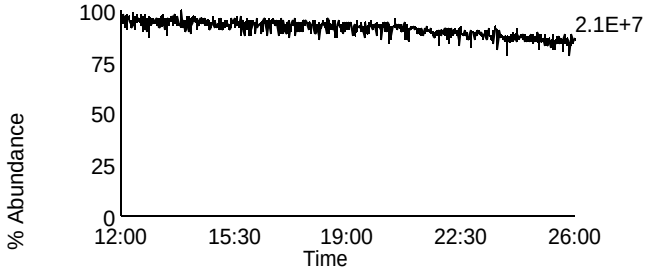
Data File: U140513A_17 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - CVS



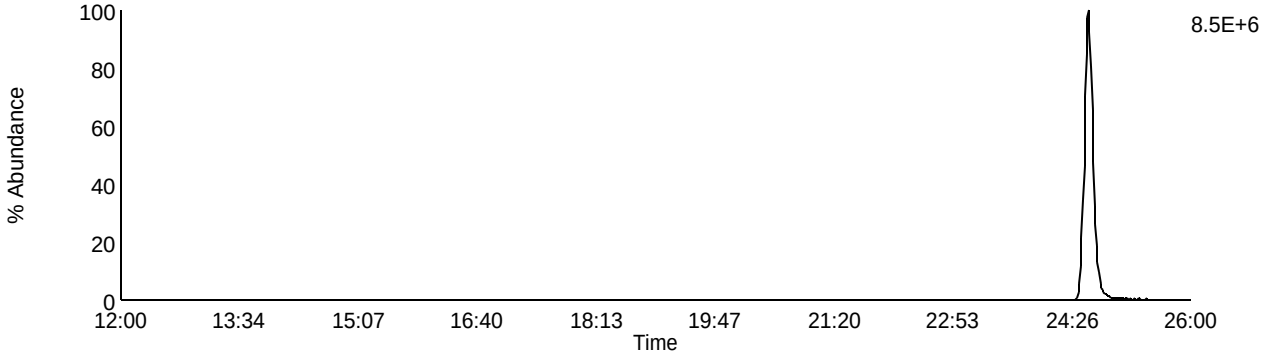
Data File: U140513A_17 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - CVS



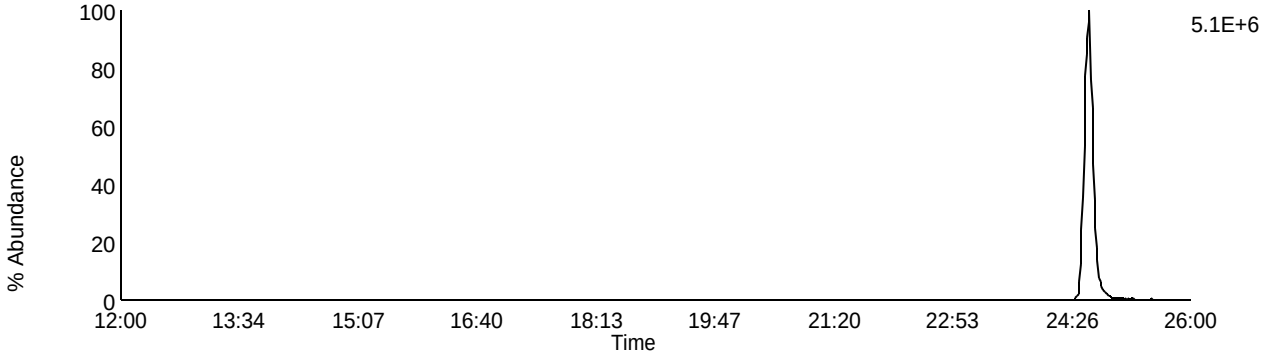
Homologue Group: Penta & Cleanup

Data File Name: U140513A_17	Lab Sample ID: CS3/CPM-7604-304
Date Acquired: 5/13/2014	Client Sample ID:
Sample Description: CAL CS3/CPM-7604-304 - CVS	Instrument: 10MSHR06 (U)

Data File: U140513A_17 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - CVS



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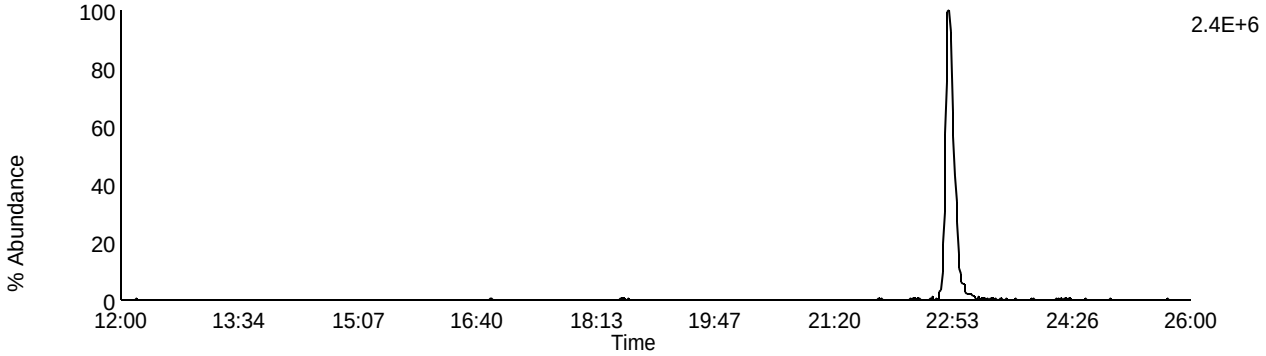
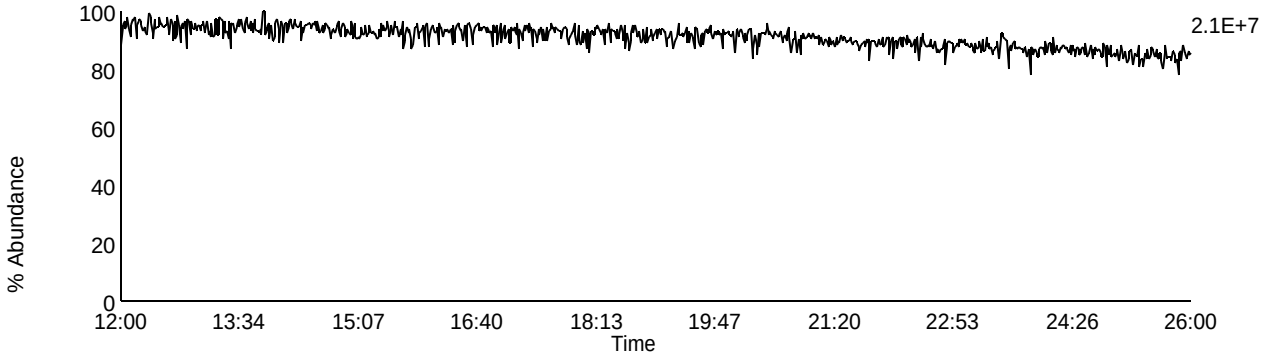
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - CVS

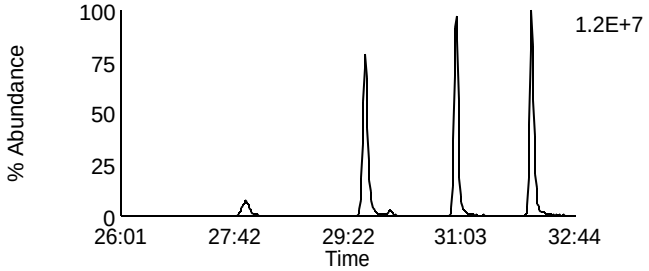


Homologue Group: Pentas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - CVS



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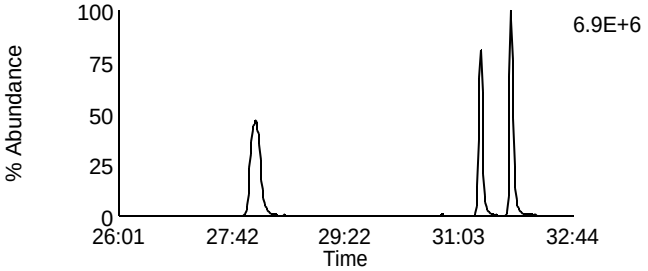

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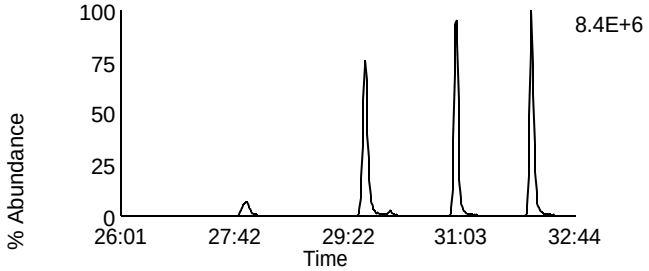

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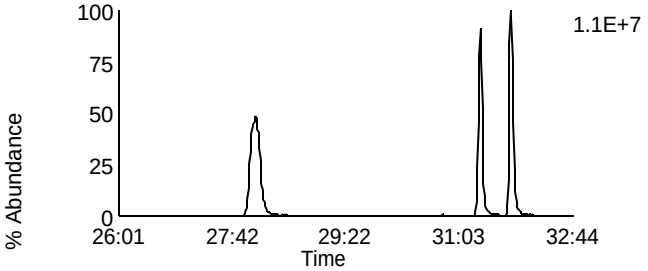

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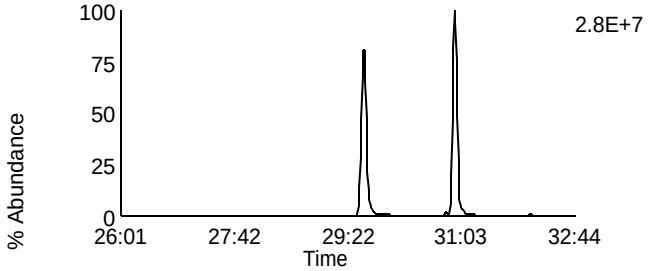
CAL CS3/CPM-7604-304 - CVS



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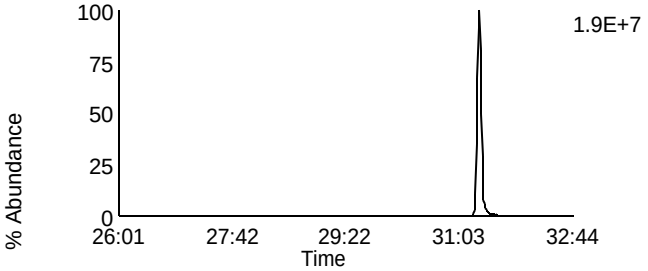
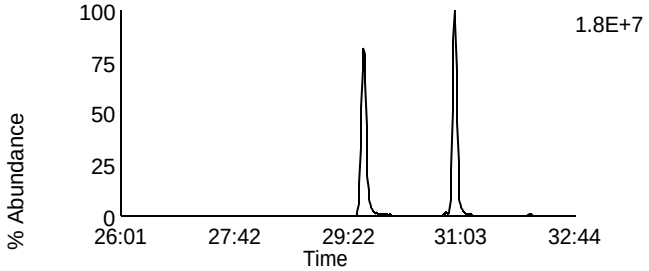
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - CVS



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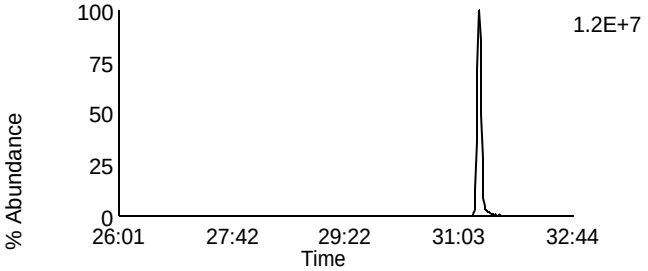
CAL CS3/CPM-7604-304 - CVS



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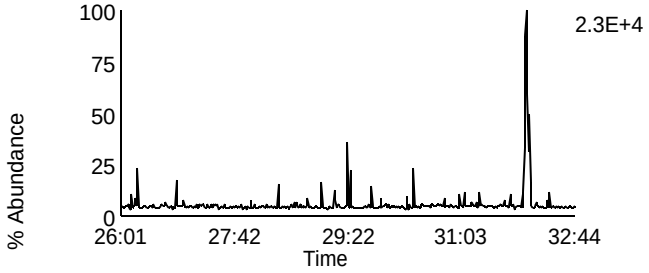
CAL CS3/CPM-7604-304 - CVS



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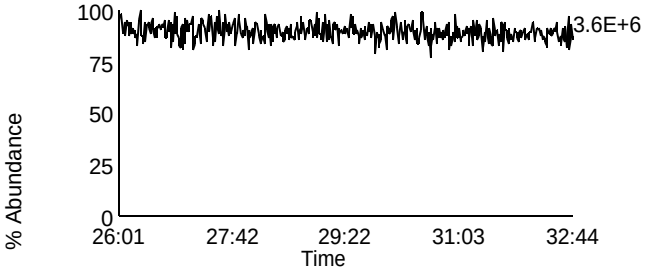
CAL CS3/CPM-7604-304 - CVS

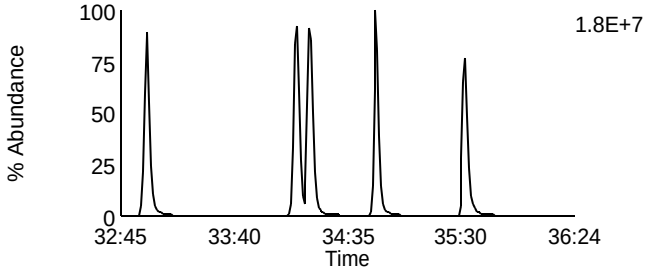


Homologue Group: Hexas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - CVS



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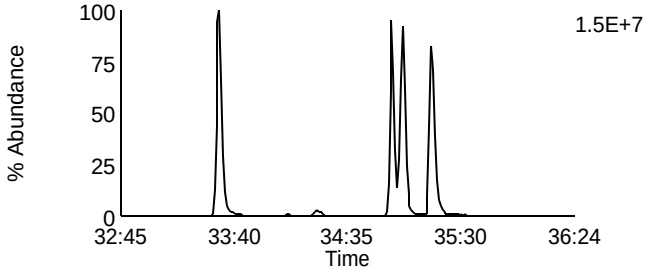
CAL CS3/CPM-7604-304 - CVS



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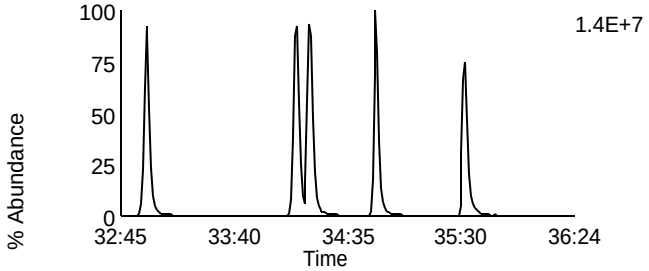

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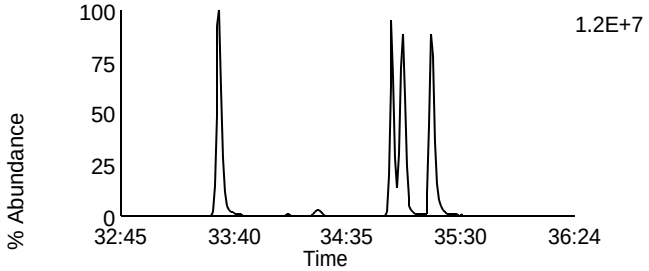

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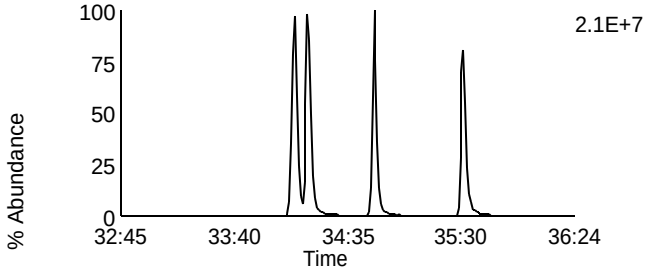

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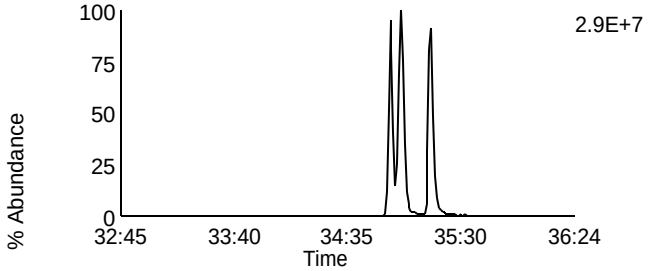
CAL CS3/CPM-7604-304 - CVS



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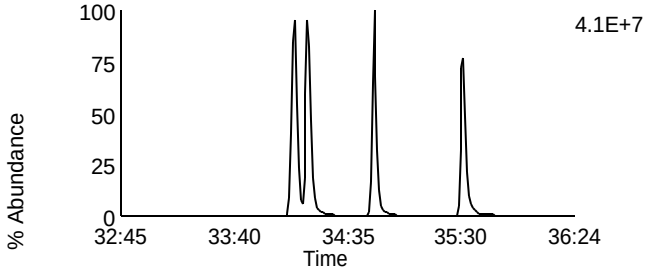
CAL CS3/CPM-7604-304 - CVS



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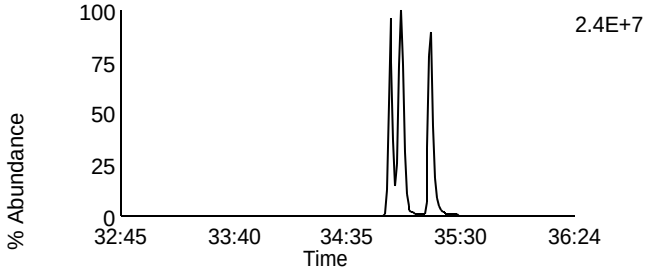
CAL CS3/CPM-7604-304 - CVS



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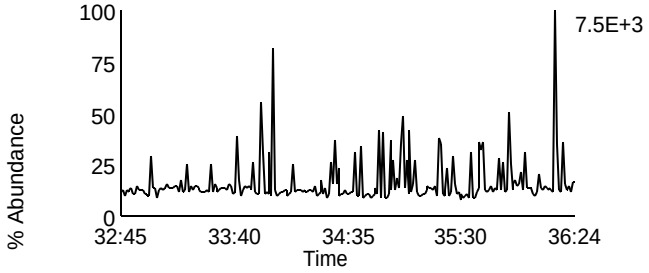
CAL CS3/CPM-7604-304 - CVS



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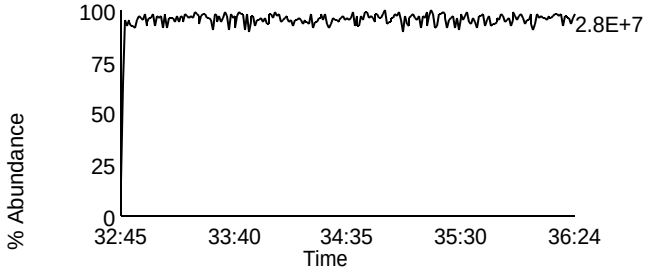
CAL CS3/CPM-7604-304 - CVS

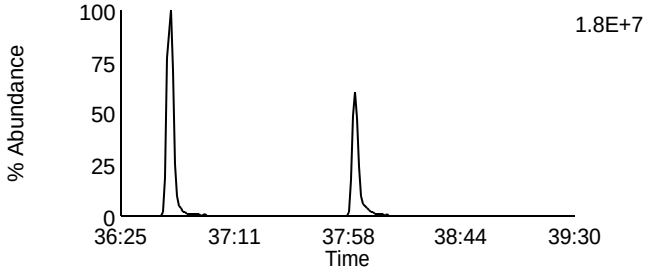


Homologue Group: Heptas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - CVS



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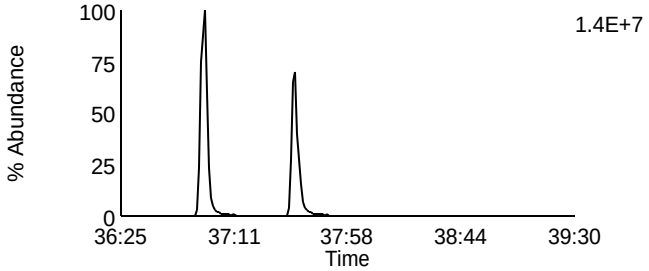

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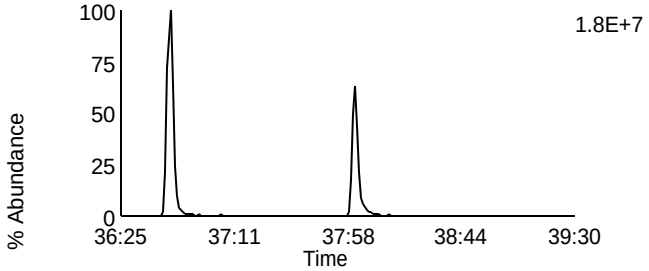

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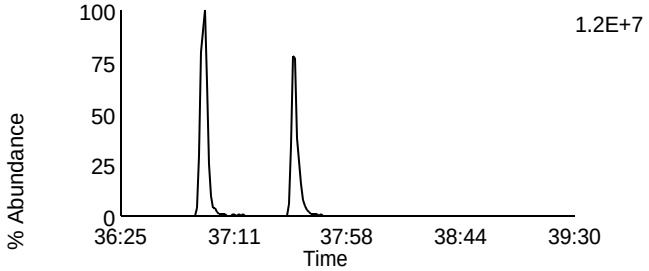

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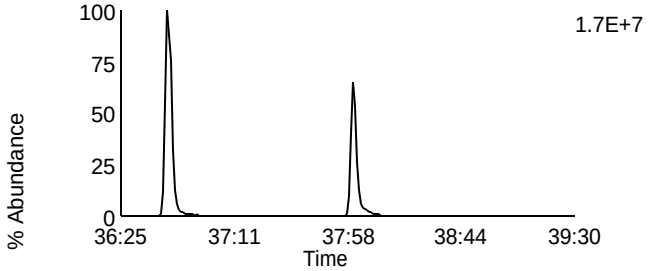

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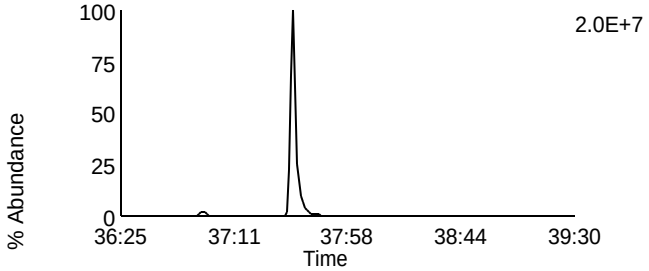
CAL CS3/CPM-7604-304 - CVS



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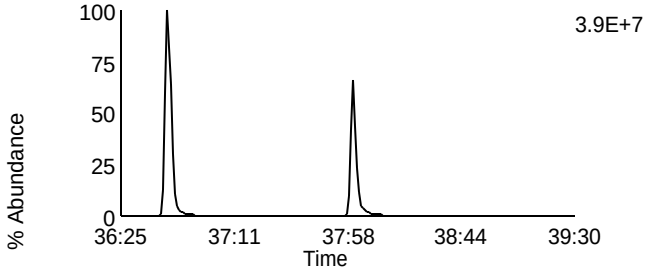
CAL CS3/CPM-7604-304 - CVS



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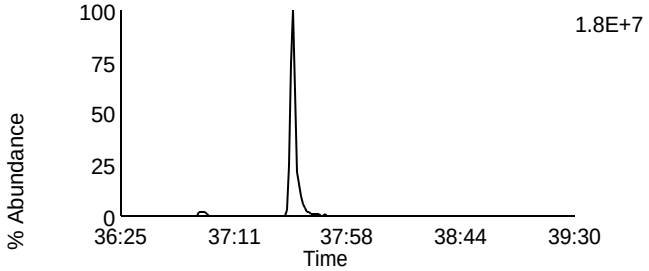

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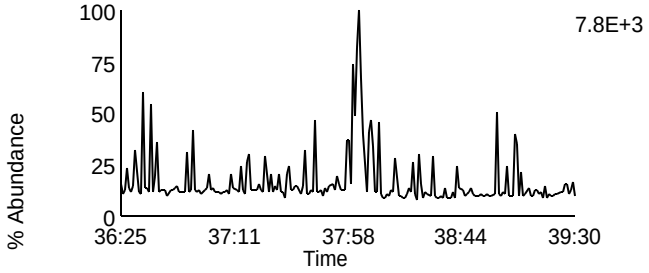

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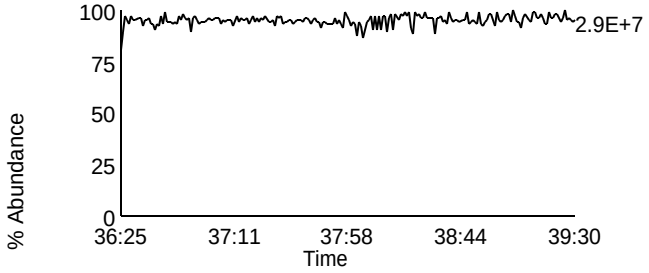
CAL CS3/CPM-7604-304 - CVS

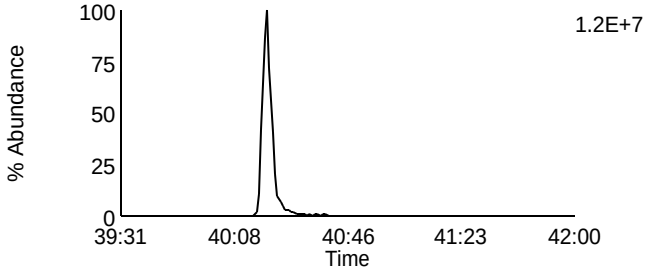


Homologue Group: Octas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - CVS



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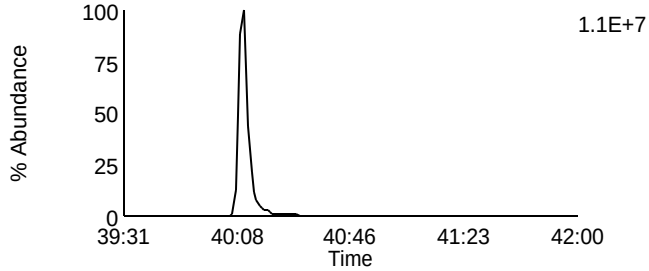

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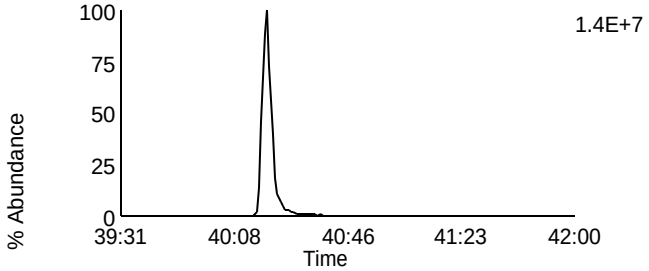

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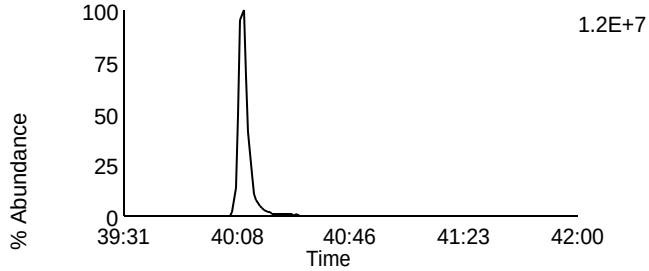

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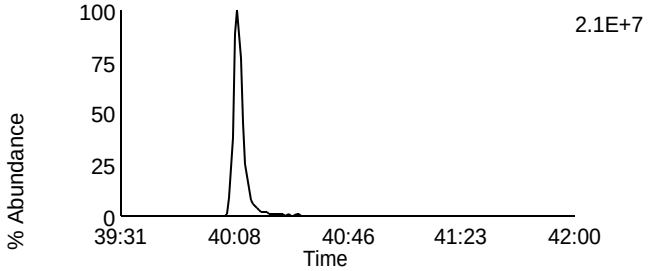
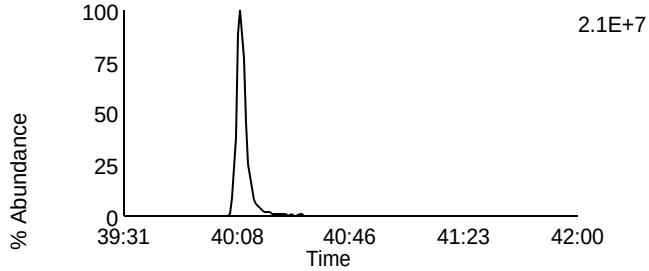


Data File: U140513A_17 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - CVS



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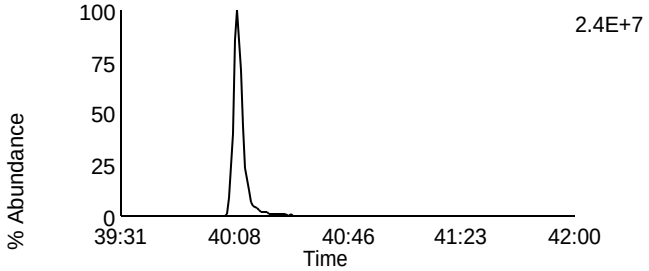
CAL CS3/CPM-7604-304 - CVS



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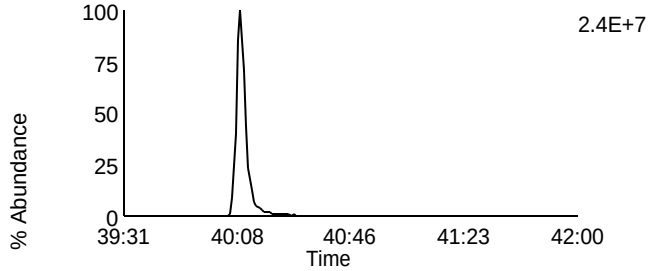
CAL CS3/CPM-7604-304 - CVS



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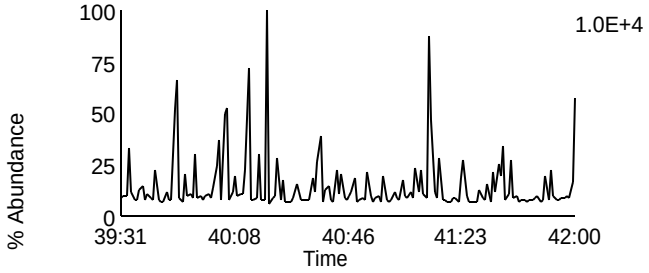
CAL CS3/CPM-7604-304 - CVS



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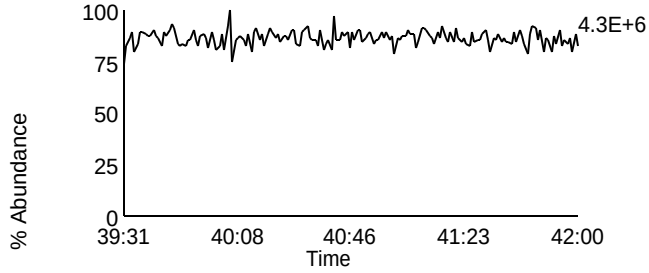

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR05 (F)
Filename	F131125C_03	GC Column ID	USD331524H
Analyzed	11/25/2013 21:51	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:17	8.22e7	1.08e8	1.29e7	1.72e7	-----	-----	0.76	
2,3,7,8-TCDF	22:19	3.06e5	4.49e5	4.70e4	8.25e4	4.450e2	1.076e3	0.68	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:30	6.19e7	7.76e7	9.58e6	1.17e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	23:24	5.90e7	7.39e7	8.95e6	1.18e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	23:25	6.46e5		9.84e4		-----	-----		
2,3,7,8-TCDD	23:24	2.68e5	3.87e5	3.63e4	7.13e4	7.901e2	1.414e3	0.69	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:25	9.08e7	5.83e7	1.43e7	9.23e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:14	8.66e7	5.58e7	1.74e7	1.11e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	30:26	1.94e6	1.18e6	3.06e5	1.87e5	1.622e3	6.708e2	1.64	
2,3,4,7,8-PeCDF	32:15	1.99e6	1.22e6	3.95e5	2.58e5	6.250e2	1.023e3	1.63	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:43	6.31e7	4.11e7	1.35e7	8.51e6	-----	-----	1.53	
1,2,3,7,8-PeCDD	32:45	8.20e5	1.43e6	1.51e5	2.83e5	2.396e3	2.106e3	0.57	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:25	3.81e7	7.28e7	1.06e7	2.00e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:34	4.09e7	7.74e7	1.10e7	2.14e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:18	3.96e7	7.60e7	1.20e7	2.33e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:18	3.44e7	6.61e7	9.93e6	1.90e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:26	1.50e6	1.28e6	4.12e5	3.49e5	1.227e3	9.984e2	1.18	
1,2,3,6,7,8-HxCDF	36:35	1.66e6	1.31e6	5.09e5	3.91e5	1.015e3	1.194e3	1.27	
2,3,4,6,7,8-HxCDF	37:18	1.60e6	1.28e6	4.97e5	3.72e5	1.131e3	9.722e2	1.25	
1,2,3,7,8,9-HxCDF	38:19	1.23e6	9.99e5	3.46e5	2.86e5	1.579e3	4.429e2	1.23	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR05 (F)
Filename	F131125C_03	GC Column ID	USD331524H
Analyzed	11/25/2013 21:51	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:29	5.48e7	4.31e7	1.78e7	1.42e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:37	5.87e7	4.73e7	1.70e7	1.38e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:55	5.82e7	4.74e7	1.67e7	1.31e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	37:30	1.20e6	9.79e5	3.78e5	3.66e5	2.886e3	1.919e3	1.23	
1,2,3,6,7,8-HxCDD	37:37	1.18e6	9.42e5	3.40e5	2.59e5	2.015e3	2.053e3	1.25	
1,2,3,7,8,9-HxCDD	37:55	1.22e6	9.74e5	3.32e5	2.72e5	1.847e2	1.221e2	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:01	3.54e7	7.55e7	1.18e7	2.48e7	-----	-----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	41:41	2.67e7	5.82e7	8.20e6	1.79e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	40:02	1.65e6	1.74e6	5.85e5	5.90e5	2.538e3	7.389e2	0.95	
1,2,3,4,7,8,9-HpCDF	41:42	1.29e6	1.39e6	4.09e5	4.55e5	6.474e2	3.775e2	0.92	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:09	4.56e7	4.22e7	1.43e7	1.33e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	41:09	1.14e6	1.13e6	3.73e5	4.11e5	9.629e2	1.249e3	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:29	1.67e6	2.01e6	4.47e5	5.41e5	6.847e2	1.353e3	0.83	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:15	7.39e7	8.52e7	2.00e7	2.31e7	-----	-----	0.87	
OCDD	44:16	1.73e6	1.98e6	4.37e5	5.40e5	3.259e2	4.915e2	0.88	

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PCDD/PCDF Detected Peak List

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Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR05 (F)
Filename	F131125C_02	GC Column ID	USD331524H
Analyzed	11/25/2013 21:03	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:16	1.03e8	1.35e8	1.54e7	2.08e7	-----	-----	0.76	
2,3,7,8-TCDF	22:18	1.65e6	2.14e6	2.68e5	3.44e5	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:30	7.97e7	1.01e8	1.27e7	1.56e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	23:22	7.73e7	9.64e7	1.17e7	1.42e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	23:25	3.70e6		5.65e5		-----	-----		
2,3,7,8-TCDD	23:25	1.34e6	1.83e6	2.17e5	3.26e5	-----	-----	0.73	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:25	1.17e8	7.46e7	1.87e7	1.16e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:13	1.13e8	7.25e7	2.28e7	1.44e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	30:27	1.03e7	6.46e6	1.69e6	1.08e6	-----	-----	1.59	
2,3,4,7,8-PeCDF	32:14	1.03e7	6.48e6	2.07e6	1.31e6	-----	-----	1.60	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:42	8.48e7	5.35e7	1.80e7	1.15e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:44	4.58e6	7.62e6	9.66e5	1.56e6	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:24	4.92e7	9.72e7	1.55e7	2.96e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:33	5.48e7	1.07e8	1.50e7	2.94e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:17	4.91e7	9.41e7	1.44e7	2.71e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:17	4.80e7	9.10e7	1.31e7	2.54e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	36:26	8.69e6	7.05e6	2.44e6	2.03e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	36:34	9.38e6	7.42e6	2.62e6	2.11e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	37:18	9.22e6	6.94e6	2.66e6	2.00e6	-----	-----	1.33	
1,2,3,7,8,9-HxCDF	38:19	7.49e6	6.04e6	2.14e6	1.71e6	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR05 (F)
Filename	F131125C_02	GC Column ID	USD331524H
Analyzed	11/25/2013 21:03	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:28	7.42e7	5.94e7	2.29e7	1.83e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:36	7.65e7	6.21e7	2.46e7	2.04e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	37:54	7.57e7	6.01e7	2.22e7	1.76e7	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	37:29	6.73e6	5.36e6	2.05e6	1.66e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	37:37	6.59e6	5.42e6	1.99e6	1.67e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	37:55	6.73e6	5.38e6	2.09e6	1.64e6	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:00	4.62e7	1.03e8	1.53e7	3.36e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:41	3.62e7	8.18e7	1.13e7	2.52e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	40:01	9.81e6	9.24e6	3.26e6	3.16e6	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	41:42	7.87e6	7.53e6	2.46e6	2.43e6	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:08	6.27e7	5.87e7	2.18e7	2.02e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	41:09	6.49e6	6.18e6	2.36e6	2.22e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:29	1.01e7	1.16e7	2.76e6	3.07e6	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:15	1.02e8	1.11e8	2.70e7	2.94e7	-----	-----	0.91	
OCDD	44:15	9.44e6	1.09e7	2.48e6	3.03e6	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

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Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-288	Instrument ID	10MSHR05 (F)
Filename	F131125C_01	GC Column ID	USD331524H
Analyzed	11/25/2013 20:17	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:16	1.12e8	1.44e8	1.68e7	2.12e7	-----	-----	0.78	
2,3,7,8-TCDF	22:17	9.35e6	1.20e7	1.54e6	1.91e6	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:29	8.65e7	1.08e8	1.27e7	1.64e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	23:22	8.40e7	1.06e8	1.23e7	1.57e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	23:24	2.01e7		2.90e6		-----	-----		
2,3,7,8-TCDD	23:24	7.82e6	1.06e7	1.14e6	1.48e6	-----	-----	0.74	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:24	1.26e8	8.04e7	1.87e7	1.22e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	32:12	1.25e8	8.02e7	2.45e7	1.54e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	30:26	5.74e7	3.67e7	8.99e6	5.57e6	-----	-----	1.56	
2,3,4,7,8-PeCDF	32:14	5.60e7	3.64e7	1.13e7	7.57e6	-----	-----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:42	9.35e7	5.96e7	1.89e7	1.20e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	32:44	2.59e7	4.21e7	5.21e6	9.04e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:25	5.51e7	1.09e8	1.52e7	3.07e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:33	6.06e7	1.14e8	1.66e7	3.22e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:17	5.39e7	1.03e8	1.58e7	3.12e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:18	5.39e7	1.03e8	1.46e7	2.78e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:26	4.84e7	3.93e7	1.37e7	1.12e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	36:35	5.24e7	4.18e7	1.44e7	1.15e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	37:18	4.96e7	4.00e7	1.39e7	1.13e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	38:19	4.43e7	3.42e7	1.25e7	9.78e6	-----	-----	1.30	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-288	Instrument ID	10MSHR05 (F)
Filename	F131125C_01	GC Column ID	USD331524H
Analyzed	11/25/2013 20:17	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:29	8.10e7	6.47e7	2.52e7	1.92e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:36	8.49e7	7.12e7	2.62e7	2.15e7	-----	-----	1.19	
1,2,3,7,8,9-HxCDD-13C	37:54	8.24e7	6.78e7	2.53e7	2.12e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	37:30	3.67e7	3.05e7	1.18e7	9.46e6	-----	-----	1.20	
1,2,3,6,7,8-HxCDD	37:37	3.63e7	3.06e7	1.05e7	9.27e6	-----	-----	1.19	
1,2,3,7,8,9-HxCDD	37:55	3.88e7	3.10e7	1.19e7	9.31e6	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:00	5.01e7	1.12e8	1.61e7	3.50e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:41	4.05e7	8.98e7	1.32e7	2.75e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	40:01	5.69e7	5.41e7	1.83e7	1.79e7	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	41:41	4.44e7	4.33e7	1.39e7	1.35e7	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:08	7.14e7	6.86e7	2.50e7	2.39e7	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	41:09	3.74e7	3.64e7	1.30e7	1.25e7	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:29	5.91e7	6.59e7	1.63e7	1.76e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:15	1.16e8	1.30e8	3.11e7	3.42e7	-----	-----	0.89	
OCDD	44:16	5.55e7	6.32e7	1.50e7	1.67e7	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR05 (F)
Filename	F131125C_06	GC Column ID	USD331524H
Analyzed	11/26/2013 00:15	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:16	1.08e8	1.41e8	1.63e7	2.13e7	-----	-----	0.77	
2,3,7,8-TCDF	22:18	3.60e7	4.81e7	5.52e6	7.18e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:29	8.54e7	1.06e8	1.34e7	1.66e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	23:22	8.11e7	1.02e8	1.19e7	1.49e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	23:24	8.03e7		1.17e7		-----	-----		
2,3,7,8-TCDD	23:24	3.07e7	4.07e7	4.42e6	6.11e6	-----	-----	0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:24	1.23e8	7.94e7	1.92e7	1.23e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	32:12	1.21e8	7.62e7	2.39e7	1.51e7	-----	-----	1.58	
1,2,3,7,8-PeCDF	30:26	2.24e8	1.45e8	3.68e7	2.34e7	-----	-----	1.55	
2,3,4,7,8-PeCDF	32:14	2.23e8	1.45e8	4.39e7	2.89e7	-----	-----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:41	8.93e7	5.75e7	1.76e7	1.13e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	32:44	9.93e7	1.66e8	2.06e7	3.44e7	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:24	5.26e7	1.01e8	1.50e7	2.89e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:33	5.80e7	1.09e8	1.62e7	3.13e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:17	5.19e7	9.87e7	1.49e7	2.91e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:17	4.97e7	9.63e7	1.41e7	2.78e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:25	1.85e8	1.48e8	5.15e7	4.14e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	36:34	2.05e8	1.60e8	5.69e7	4.56e7	-----	-----	1.28	
2,3,4,6,7,8-HxCDF	37:18	1.97e8	1.53e8	5.37e7	4.26e7	-----	-----	1.29	
1,2,3,7,8,9-HxCDF	38:18	1.64e8	1.31e8	4.64e7	3.72e7	-----	-----	1.26	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR05 (F)
Filename	F131125C_06	GC Column ID	USD331524H
Analyzed	11/26/2013 00:15	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:28	7.57e7	5.92e7	2.26e7	1.79e7	-----	-----	1.28	
1,2,3,6,7,8-HxCDD-13C	37:36	8.56e7	6.86e7	2.43e7	1.88e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:54	7.87e7	6.30e7	2.17e7	1.70e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	37:29	1.41e8	1.13e8	4.14e7	3.46e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	37:37	1.44e8	1.17e8	4.21e7	3.29e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	37:55	1.43e8	1.16e8	3.94e7	3.14e7	-----	-----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:00	4.86e7	1.05e8	1.56e7	3.28e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:40	3.60e7	7.80e7	1.13e7	2.36e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	40:01	2.14e8	2.08e8	7.17e7	6.84e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:41	1.58e8	1.61e8	5.09e7	4.97e7	-----	-----	0.99	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:08	6.32e7	5.95e7	1.96e7	1.85e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	41:09	1.39e8	1.31e8	4.44e7	4.16e7	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:29	2.25e8	2.48e8	5.80e7	6.21e7	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:14	1.07e8	1.22e8	2.80e7	3.23e7	-----	-----	0.87	
OCDD	44:15	2.13e8	2.39e8	5.61e7	6.31e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR05 (F)
Filename	F131125C_05	GC Column ID	USD331524H
Analyzed	11/25/2013 23:27	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:18	1.20e8	1.56e8	1.83e7	2.38e7	-----	-----	0.77	
2,3,7,8-TCDF	22:19	2.06e8	2.67e8	3.18e7	4.09e7	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:30	9.18e7	1.15e8	1.41e7	1.74e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	23:23	9.06e7	1.14e8	1.38e7	1.69e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	23:25	4.52e8		6.84e7		-----	-----		
2,3,7,8-TCDD	23:25	1.74e8	2.31e8	2.69e7	3.63e7	-----	-----	0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:26	1.39e8	9.07e7	2.21e7	1.42e7	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	32:14	1.36e8	8.69e7	2.52e7	1.71e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	30:27	1.30e9	8.20e8	1.92e8	1.22e8	-----	-----	1.58	
2,3,4,7,8-PeCDF	32:15	1.29e9	8.27e8	2.73e8	1.76e8	-----	-----	1.57	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:44	1.00e8	6.47e7	2.06e7	1.30e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	32:45	5.69e8	9.37e8	1.26e8	2.01e8	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:26	6.11e7	1.19e8	1.61e7	3.28e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:34	6.86e7	1.30e8	1.83e7	3.53e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:18	5.90e7	1.15e8	1.72e7	3.40e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	38:19	6.01e7	1.17e8	1.71e7	3.17e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:26	1.10e9	8.79e8	3.26e8	2.59e8	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	36:36	1.16e9	9.57e8	3.31e8	2.68e8	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	37:18	1.12e9	9.17e8	3.17e8	2.63e8	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	38:20	1.02e9	8.20e8	2.86e8	2.32e8	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR05 (F)
Filename	F131125C_05	GC Column ID	USD331524H
Analyzed	11/25/2013 23:27	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:30	8.85e7	7.09e7	2.78e7	2.12e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:37	9.77e7	7.86e7	2.96e7	2.37e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:55	9.24e7	7.48e7	2.82e7	2.26e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	37:30	8.24e8	6.77e8	2.48e8	2.08e8	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	37:37	8.34e8	6.72e8	2.48e8	2.01e8	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	37:56	8.60e8	6.98e8	2.66e8	2.12e8	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:01	6.00e7	1.30e8	1.88e7	3.99e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:42	4.51e7	1.02e8	1.36e7	3.03e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	40:02	1.25e9	1.24e9	4.17e8	4.11e8	-----	-----	1.01	
1,2,3,4,7,8,9-HpCDF	41:43	1.02e9	9.80e8	3.10e8	2.99e8	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:09	7.57e7	7.21e7	2.42e7	2.31e7	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	41:10	7.84e8	7.39e8	2.37e8	2.35e8	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:30	1.46e9	1.64e9	4.04e8	4.51e8	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:16	1.35e8	1.47e8	3.62e7	3.96e7	-----	-----	0.92	
OCDD	44:17	1.34e9	1.51e9	3.65e8	4.09e8	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140322B_06	GC Column ID	USD397111H
Analyzed	03/22/2014 16:50	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.77e8	2.29e8	2.63e7	3.38e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	7.09e5	1.02e6	1.00e5	2.13e5	-----	-----	0.70	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.21e8	1.54e8	1.78e7	2.27e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	22:57	1.20e8	1.53e8	1.66e7	2.15e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:60	1.54e6		2.20e5		-----	-----		
2,3,7,8-TCDD	22:58	6.01e5	8.82e5	9.18e4	1.38e5	-----	-----	0.68	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.85e8	1.19e8	3.57e7	2.23e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:01	1.80e8	1.17e8	4.20e7	2.73e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:40	4.20e6	2.61e6	7.49e5	5.00e5	-----	-----	1.61	
2,3,4,7,8-PeCDF	31:01	4.05e6	2.61e6	1.01e6	6.62e5	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.24e8	7.93e7	3.07e7	1.98e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:26	1.88e6	3.17e6	4.96e5	7.99e5	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	7.48e7	1.46e8	2.54e7	5.06e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:20	8.82e7	1.68e8	2.98e7	5.76e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:52	8.25e7	1.61e8	2.96e7	5.80e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	6.88e7	1.31e8	2.33e7	4.45e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	3.40e6	2.74e6	1.11e6	9.33e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:21	3.52e6	2.99e6	1.20e6	9.95e5	-----	-----	1.18	
2,3,4,6,7,8-HxCDF	34:53	3.41e6	2.84e6	1.32e6	1.08e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	35:37	2.72e6	2.19e6	9.70e5	7.56e5	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140322B_06	GC Column ID	USD397111H
Analyzed	03/22/2014 16:50	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	1.01e8	8.10e7	3.97e7	3.19e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	35:06	1.21e8	9.48e7	4.32e7	3.42e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	35:20	1.13e8	9.29e7	3.98e7	3.14e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	35:02	2.51e6	2.01e6	8.60e5	6.78e5	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:07	2.93e6	2.31e6	9.95e5	8.59e5	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	35:21	2.76e6	2.19e6	1.03e6	7.14e5	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	6.38e7	1.39e8	2.27e7	4.83e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.60e7	9.95e7	1.51e7	3.34e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	3.44e6	3.48e6	1.26e6	1.31e6	-----	-----	0.99	
1,2,3,4,7,8,9-HpCDF	38:10	2.47e6	2.51e6	7.74e5	8.14e5	-----	-----	0.98	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	7.77e7	7.28e7	2.62e7	2.44e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:43	1.97e6	1.93e6	6.72e5	6.73e5	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:31	2.57e6	3.08e6	7.86e5	9.33e5	-----	-----	0.83	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	9.84e7	1.12e8	2.96e7	3.36e7	-----	-----	0.88	
OCDD	40:19	2.52e6	2.85e6	7.14e5	8.46e5	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140322B_05	GC Column ID	USD397111H
Analyzed	03/22/2014 16:05	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.45e8	1.89e8	2.14e7	2.82e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	2.46e6	3.39e6	4.31e5	5.49e5	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	10.00e7	1.27e8	1.42e7	1.75e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	9.98e7	1.27e8	1.38e7	1.81e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	22:59	5.19e6		7.75e5		-----	-----		
2,3,7,8-TCDD	22:58	2.18e6	2.75e6	3.15e5	4.02e5	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.48e8	9.71e7	2.90e7	1.86e7	-----	-----	1.52	
2,3,4,7,8-PeCDF-13C	31:01	1.50e8	9.77e7	3.56e7	2.32e7	-----	-----	1.53	
1,2,3,7,8-PeCDF	29:40	1.29e7	8.63e6	2.45e6	1.75e6	-----	-----	1.49	
2,3,4,7,8-PeCDF	31:01	1.34e7	8.97e6	2.99e6	2.05e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.02e8	6.58e7	2.58e7	1.65e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:26	6.32e6	1.01e7	1.43e6	2.47e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	6.02e7	1.19e8	2.09e7	4.06e7	-----	-----	0.50	
1,2,3,6,7,8-HxCDF-13C	34:20	7.08e7	1.37e8	2.34e7	4.62e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:52	6.36e7	1.24e8	2.24e7	4.42e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	5.85e7	1.14e8	1.98e7	3.85e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:14	1.05e7	8.51e6	3.64e6	3.15e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:21	1.16e7	9.55e6	4.02e6	3.26e6	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	34:53	1.11e7	8.81e6	4.05e6	3.37e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	35:37	8.94e6	7.43e6	3.14e6	2.59e6	-----	-----	1.20	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140322B_05	GC Column ID	USD397111H
Analyzed	03/22/2014 16:05	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	8.48e7	6.83e7	3.44e7	2.77e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:06	1.03e8	8.13e7	3.61e7	2.79e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:20	9.33e7	7.57e7	3.22e7	2.56e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	35:02	8.59e6	6.90e6	3.23e6	2.60e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	35:07	9.37e6	7.48e6	3.52e6	2.61e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:21	8.76e6	6.95e6	2.90e6	2.44e6	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	5.42e7	1.18e8	2.05e7	4.28e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.00e7	8.68e7	1.31e7	2.90e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	1.18e7	1.11e7	4.45e6	4.13e6	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	38:10	8.59e6	8.34e6	2.80e6	2.64e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	6.84e7	6.48e7	2.38e7	2.29e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:43	7.09e6	7.03e6	2.46e6	2.46e6	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	9.79e6	1.14e7	2.83e6	3.30e6	-----	-----	0.86	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	9.35e7	1.04e8	2.89e7	3.22e7	-----	-----	0.90	
OCDD	40:20	9.02e6	1.06e7	2.80e6	3.33e6	-----	-----	0.85	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140322B_04	GC Column ID	USD397111H
Analyzed	03/22/2014 15:20	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.87e8	2.41e8	2.67e7	3.40e7	-----	-----	0.78	
2,3,7,8-TCDF	21:47	1.62e7	2.10e7	2.59e6	3.03e6	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.27e8	1.62e8	1.85e7	2.32e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	1.29e8	1.62e8	1.76e7	2.26e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:59	3.28e7		4.55e6		-----	-----		
2,3,7,8-TCDD	22:57	1.36e7	1.73e7	1.76e6	2.29e6	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.96e8	1.26e8	3.71e7	2.38e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:01	1.97e8	1.28e8	4.78e7	3.14e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	29:40	8.40e7	5.50e7	1.63e7	1.04e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	31:02	8.49e7	5.56e7	2.01e7	1.37e7	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.35e8	8.47e7	3.52e7	2.25e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	31:25	4.02e7	6.42e7	1.01e7	1.61e7	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	8.22e7	1.59e8	2.97e7	5.71e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:20	9.36e7	1.82e8	3.16e7	5.95e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:52	8.22e7	1.61e8	2.94e7	5.68e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	7.57e7	1.47e8	2.73e7	5.03e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	6.75e7	5.61e7	2.46e7	2.09e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:21	7.66e7	6.12e7	2.58e7	2.04e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:53	7.31e7	5.80e7	2.74e7	2.20e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	35:37	5.86e7	4.83e7	2.00e7	1.72e7	-----	-----	1.21	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140322B_04	GC Column ID	USD397111H
Analyzed	03/22/2014 15:20	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	1.15e8	9.22e7	4.51e7	3.56e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:06	1.33e8	1.06e8	4.78e7	3.91e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:20	1.23e8	9.94e7	4.47e7	3.52e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	35:02	5.62e7	4.68e7	2.03e7	1.68e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDD	35:07	5.74e7	4.58e7	2.11e7	1.67e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:20	5.79e7	4.78e7	1.95e7	1.59e7	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:49	7.11e7	1.56e8	2.79e7	6.26e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:09	5.10e7	1.11e8	1.74e7	3.86e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	7.66e7	7.38e7	2.99e7	2.84e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:09	5.45e7	5.23e7	1.98e7	1.90e7	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	8.92e7	8.39e7	3.05e7	2.95e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:43	4.65e7	4.39e7	1.75e7	1.70e7	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	6.28e7	6.98e7	1.84e7	2.13e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	1.19e8	1.32e8	3.58e7	4.02e7	-----	-----	0.90	
OCDD	40:19	5.80e7	6.52e7	1.77e7	2.02e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140322B_08	GC Column ID	USD397111H
Analyzed	03/22/2014 18:19	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.29e8	1.67e8	1.90e7	2.44e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	4.40e7	5.86e7	6.56e6	8.84e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:03	9.01e7	1.14e8	1.33e7	1.66e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	8.99e7	1.12e8	1.21e7	1.55e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	22:58	8.93e7		1.24e7		-----	-----		
2,3,7,8-TCDD	22:59	3.57e7	4.67e7	4.85e6	6.33e6	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:38	1.34e8	8.70e7	2.65e7	1.70e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	31:01	1.37e8	8.70e7	3.25e7	2.10e7	-----	-----	1.57	
1,2,3,7,8-PeCDF	29:40	2.36e8	1.54e8	4.54e7	3.05e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	31:01	2.41e8	1.58e8	5.89e7	3.94e7	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	9.22e7	5.82e7	2.21e7	1.43e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	31:25	1.10e8	1.79e8	2.75e7	4.47e7	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	5.59e7	1.08e8	1.86e7	3.55e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:20	6.59e7	1.23e8	2.13e7	3.97e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:52	5.61e7	1.10e8	1.93e7	3.61e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:36	5.29e7	1.02e8	1.67e7	3.21e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	1.85e8	1.51e8	6.33e7	5.11e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:21	2.14e8	1.71e8	7.10e7	5.75e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:53	2.03e8	1.68e8	6.92e7	5.66e7	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	35:37	1.63e8	1.32e8	5.23e7	4.38e7	-----	-----	1.23	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140322B_08	GC Column ID	USD397111H
Analyzed	03/22/2014 18:19	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	7.71e7	5.84e7	2.73e7	2.08e7	-----	-----	1.32	
1,2,3,6,7,8-HxCDD-13C	35:06	9.03e7	7.56e7	3.00e7	2.37e7	-----	-----	1.19	
1,2,3,7,8,9-HxCDD-13C	35:20	8.09e7	6.63e7	2.42e7	2.00e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	35:01	1.44e8	1.16e8	5.37e7	4.45e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	35:07	1.69e8	1.34e8	5.33e7	4.38e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:20	1.58e8	1.26e8	4.92e7	4.01e7	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:49	4.71e7	1.04e8	1.84e7	4.01e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:08	3.47e7	7.59e7	1.14e7	2.51e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	2.08e8	1.98e8	7.84e7	7.40e7	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:09	1.50e8	1.41e8	5.05e7	4.77e7	-----	-----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:42	5.70e7	5.53e7	1.92e7	1.87e7	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	37:43	1.22e8	1.14e8	4.18e7	3.91e7	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	1.91e8	2.08e8	5.40e7	6.05e7	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	8.28e7	9.07e7	2.31e7	2.60e7	-----	-----	0.91	
OCDD	40:20	1.63e8	1.83e8	4.75e7	5.32e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140322B_07	GC Column ID	USD397111H
Analyzed	03/22/2014 17:34	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.50e8	1.93e8	2.14e7	2.74e7	-----	-----	0.78	
2,3,7,8-TCDF	21:47	2.58e8	3.36e8	3.68e7	4.75e7	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.04e8	1.32e8	1.50e7	1.86e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:57	1.03e8	1.34e8	1.42e7	1.83e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	22:58	5.30e8		7.18e7		-----	-----		
2,3,7,8-TCDD	22:58	2.11e8	2.72e8	2.91e7	3.73e7	-----	-----	0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.62e8	1.06e8	3.18e7	2.02e7	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	31:01	1.64e8	1.06e8	3.98e7	2.59e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:41	1.43e9	9.28e8	2.73e8	1.82e8	-----	-----	1.55	
2,3,4,7,8-PeCDF	31:01	1.47e9	9.67e8	3.68e8	2.40e8	-----	-----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.13e8	7.30e7	2.88e7	1.87e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:26	6.87e8	1.11e9	1.74e8	2.76e8	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	6.89e7	1.34e8	2.35e7	4.62e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:21	8.02e7	1.55e8	2.59e7	5.06e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:53	7.04e7	1.36e8	2.57e7	4.90e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:37	6.87e7	1.32e8	2.38e7	4.53e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	1.19e9	9.40e8	3.99e8	3.33e8	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	34:21	1.31e9	1.08e9	4.33e8	3.55e8	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	34:53	1.24e9	1.01e9	4.57e8	3.72e8	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:38	1.07e9	8.57e8	3.73e8	2.99e8	-----	-----	1.25	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140322B_07	GC Column ID	USD397111H
Analyzed	03/22/2014 17:34	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	9.72e7	7.67e7	3.80e7	2.92e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	35:06	1.14e8	9.25e7	4.23e7	3.41e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	35:20	1.04e8	8.47e7	3.64e7	2.96e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	35:02	9.52e8	7.73e8	3.67e8	2.95e8	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	35:07	1.00e9	8.17e8	3.63e8	2.96e8	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	35:21	9.83e8	8.04e8	3.40e8	2.74e8	-----	-----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	6.06e7	1.32e8	2.18e7	4.68e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.57e7	1.01e8	1.59e7	3.49e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:50	1.28e9	1.24e9	4.70e8	4.62e8	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:10	9.96e8	9.48e8	3.21e8	3.03e8	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	7.46e7	7.30e7	2.50e7	2.40e7	-----	-----	1.02	
1,2,3,4,6,7,8-HpCDD	37:44	7.89e8	7.49e8	2.59e8	2.40e8	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:31	1.35e9	1.49e9	4.09e8	4.49e8	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:20	1.14e8	1.26e8	3.35e7	3.82e7	-----	-----	0.90	
OCDD	40:20	1.13e9	1.27e9	3.41e8	3.73e8	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140512A_01	GC Column ID	USD397111H
Analyzed	05/12/2014 10:48	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:44	1.49e8	1.89e8	1.85e7	2.37e7	-----	-----	0.79	
2,3,7,8-TCDF	21:45	1.23e7	1.63e7	1.47e6	2.09e6	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:58	1.04e8	1.29e8	1.35e7	1.73e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	22:54	1.01e8	1.31e8	1.16e7	1.52e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	22:56	2.48e7		2.78e6		-----	-----		
2,3,7,8-TCDD	22:57	1.12e7	1.40e7	1.20e6	1.56e6	-----	-----	0.80	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:42	1.68e8	1.08e8	3.05e7	1.89e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	31:02	1.62e8	1.02e8	3.70e7	2.29e7	-----	-----	1.59	
1,2,3,7,8-PeCDF	29:43	6.95e7	4.60e7	1.20e7	7.96e6	-----	-----	1.51	
2,3,4,7,8-PeCDF	31:03	6.82e7	4.56e7	1.40e7	9.88e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	1.06e8	6.72e7	2.37e7	1.53e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:26	3.01e7	4.97e7	7.15e6	1.19e7	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	6.25e7	1.20e8	2.13e7	3.94e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:18	7.12e7	1.33e8	2.27e7	4.22e7	-----	-----	0.54	
2,3,4,6,7,8-HxCDF-13C	34:50	6.54e7	1.24e8	2.31e7	4.42e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:33	6.41e7	1.25e8	2.25e7	4.28e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:13	5.10e7	4.14e7	1.66e7	1.38e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:19	5.73e7	4.54e7	1.81e7	1.43e7	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	34:51	5.51e7	4.49e7	1.83e7	1.53e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:34	4.85e7	3.86e7	1.59e7	1.30e7	-----	-----	1.26	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140512A_01	GC Column ID	USD397111H
Analyzed	05/12/2014 10:48	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	8.67e7	6.95e7	3.40e7	2.73e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	35:03	9.94e7	7.94e7	3.52e7	2.70e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:17	8.89e7	7.33e7	3.22e7	2.58e7	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:59	4.22e7	3.42e7	1.58e7	1.24e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	35:03	4.35e7	3.50e7	1.47e7	1.24e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:18	4.51e7	3.60e7	1.53e7	1.25e7	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	6.04e7	1.37e8	2.18e7	5.01e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:02	4.34e7	9.67e7	1.35e7	2.94e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:47	6.50e7	6.36e7	2.53e7	2.52e7	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	38:03	4.73e7	4.51e7	1.45e7	1.44e7	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	7.72e7	7.28e7	2.94e7	2.73e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:39	3.95e7	3.86e7	1.49e7	1.41e7	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:21	5.62e7	6.30e7	1.55e7	1.80e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	1.07e8	1.19e8	3.02e7	3.39e7	-----	-----	0.89	
OCDD	40:12	5.12e7	5.71e7	1.47e7	1.64e7	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR05 (F)
Filename	F140512A_03	GC Column ID	USD331524H
Analyzed	05/12/2014 13:25	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:05	3.85e7	4.99e7	7.01e6	9.09e6	-----	-----	0.77	
2,3,7,8-TCDF	17:06	3.21e6	4.25e6	6.13e5	7.87e5	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:10	2.85e7	3.70e7	5.85e6	7.30e6	-----	-----	0.77	
2,3,7,8-TCDD-13C	17:56	2.83e7	3.78e7	5.04e6	6.70e6	-----	-----	0.75	
2,3,7,8-TCDD-37Cl4	17:58	6.47e6		1.08e6		-----	-----		
2,3,7,8-TCDD	17:57	2.46e6	3.16e6	4.49e5	5.27e5	-----	-----	0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:46	4.47e7	2.82e7	5.59e6	3.57e6	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	26:08	4.24e7	2.69e7	4.70e6	3.02e6	-----	-----	1.58	
1,2,3,7,8-PeCDF	23:48	2.06e7	1.29e7	2.69e6	1.64e6	-----	-----	1.60	
2,3,4,7,8-PeCDF	26:11	2.01e7	1.26e7	2.33e6	1.48e6	-----	-----	1.60	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:58	2.90e7	1.84e7	3.22e6	1.97e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	27:00	7.68e6	1.31e7	8.30e5	1.43e6	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:01	1.85e7	3.61e7	3.54e6	6.70e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:13	2.19e7	4.25e7	3.81e6	7.22e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:11	1.82e7	3.58e7	3.80e6	7.03e6	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:20	1.83e7	3.55e7	3.64e6	6.97e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:03	1.69e7	1.31e7	3.34e6	2.62e6	-----	-----	1.30	
1,2,3,6,7,8-HxCDF	33:15	1.93e7	1.50e7	3.42e6	2.64e6	-----	-----	1.29	
2,3,4,6,7,8-HxCDF	34:13	1.81e7	1.38e7	3.69e6	2.75e6	-----	-----	1.31	
1,2,3,7,8,9-HxCDF	35:20	1.49e7	1.18e7	2.81e6	2.36e6	-----	-----	1.26	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR05 (F)
Filename	F140512A_03	GC Column ID	USD331524H
Analyzed	05/12/2014 13:25	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:25	2.37e7	1.84e7	5.42e6	4.32e6	-----	-----	1.29	
1,2,3,6,7,8-HxCDD-13C	34:34	2.97e7	2.42e7	5.76e6	4.72e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	34:56	2.52e7	2.08e7	4.80e6	4.05e6	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:26	1.19e7	9.24e6	2.64e6	2.19e6	-----	-----	1.28	
1,2,3,6,7,8-HxCDD	34:35	1.36e7	1.10e7	2.69e6	2.16e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	34:58	1.21e7	1.03e7	2.28e6	1.97e6	-----	-----	1.18	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:18	1.60e7	3.72e7	3.88e6	9.00e6	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	39:03	1.27e7	2.94e7	2.73e6	6.23e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	37:19	1.64e7	1.64e7	3.90e6	3.84e6	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	39:04	1.34e7	1.30e7	2.79e6	2.71e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	2.31e7	2.24e7	4.90e6	4.73e6	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	38:32	1.19e7	1.15e7	2.59e6	2.51e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	1.84e7	2.06e7	4.34e6	4.80e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:32	3.79e7	4.34e7	8.07e6	9.31e6	-----	-----	0.87	
OCDD	41:33	1.74e7	1.97e7	3.63e6	4.21e6	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140513A_01	GC Column ID	USD397111H
Analyzed	05/13/2014 08:11	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:39	4.71e7	5.98e7	6.23e6	7.49e6	-----	-----	0.79	
2,3,7,8-TCDF	21:40	4.16e6	5.41e6	5.71e5	6.72e5	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:54	2.86e7	3.63e7	3.73e6	4.58e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:51	2.76e7	3.43e7	3.23e6	3.96e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	22:52	7.02e6		8.09e5		-----	-----		
2,3,7,8-TCDD	22:52	3.03e6	4.11e6	3.60e5	4.90e5	-----	-----	0.74	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	3.88e7	2.48e7	6.81e6	4.31e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	30:59	3.73e7	2.29e7	7.80e6	5.07e6	-----	-----	1.63	
1,2,3,7,8-PeCDF	29:40	1.72e7	1.16e7	3.16e6	1.95e6	-----	-----	1.49	
2,3,4,7,8-PeCDF	31:00	1.68e7	1.11e7	3.59e6	2.44e6	-----	-----	1.51	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	2.11e7	1.34e7	4.81e6	3.12e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:24	6.41e6	1.09e7	1.51e6	2.49e6	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:11	1.47e7	2.79e7	5.10e6	9.78e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	1.71e7	3.30e7	5.74e6	1.02e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:49	1.50e7	2.81e7	4.86e6	9.80e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:32	1.43e7	2.80e7	4.55e6	9.08e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:12	1.24e7	1.02e7	4.30e6	3.40e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	34:18	1.43e7	1.14e7	4.55e6	3.45e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:50	1.31e7	1.06e7	4.18e6	3.54e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	35:33	1.12e7	8.95e6	3.45e6	2.65e6	-----	-----	1.25	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140513A_01	GC Column ID	USD397111H
Analyzed	05/13/2014 08:11	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:57	1.71e7	1.35e7	6.47e6	5.01e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	35:02	2.11e7	1.67e7	6.73e6	5.35e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:16	1.88e7	1.51e7	6.19e6	5.08e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:57	8.77e6	7.02e6	3.51e6	2.86e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:03	9.84e6	8.28e6	3.36e6	2.80e6	-----	-----	1.19	
1,2,3,7,8,9-HxCDD	35:17	9.62e6	7.95e6	2.98e6	2.47e6	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	1.23e7	2.68e7	4.71e6	1.02e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:02	9.56e6	2.21e7	2.94e6	6.80e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	36:47	1.35e7	1.25e7	5.04e6	4.77e6	-----	-----	1.08	
1,2,3,4,7,8,9-HpCDF	38:02	1.10e7	1.03e7	3.42e6	3.02e6	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:37	1.47e7	1.41e7	5.41e6	5.34e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	37:38	8.39e6	7.93e6	2.81e6	2.85e6	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	1.58e7	1.82e7	4.54e6	5.25e6	-----	-----	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	2.63e7	2.93e7	7.80e6	8.98e6	-----	-----	0.90	
OCDD	40:12	1.31e7	1.49e7	3.73e6	4.39e6	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	CVS
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140513A_17	GC Column ID	USD397111H
Analyzed	05/13/2014 20:48	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:37	1.16e8	1.49e8	1.61e7	2.03e7	-----	-----	0.78	
2,3,7,8-TCDF	21:39	1.04e7	1.35e7	1.42e6	1.83e6	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:52	7.33e7	9.46e7	1.03e7	1.31e7	-----	-----	0.77	
2,3,7,8-TCDD-13C	22:49	7.50e7	9.24e7	9.46e6	1.18e7	-----	-----	0.81	
2,3,7,8-TCDD-37Cl4	22:50	1.89e7		2.38e6		-----	-----		
2,3,7,8-TCDD	22:51	8.10e6	1.08e7	9.68e5	1.22e6	-----	-----	0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:37	1.24e8	7.92e7	2.27e7	1.45e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	30:58	1.27e8	8.13e7	2.83e7	1.79e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	29:38	5.43e7	3.61e7	9.83e6	6.37e6	-----	-----	1.51	
2,3,4,7,8-PeCDF	30:59	5.58e7	3.71e7	1.21e7	7.98e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	8.11e7	5.31e7	1.91e7	1.22e7	-----	-----	1.53	
1,2,3,7,8-PeCDD	31:23	2.48e7	3.93e7	5.59e6	9.66e6	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	5.77e7	1.13e8	2.08e7	3.94e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:16	6.56e7	1.26e8	2.10e7	3.92e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:48	5.90e7	1.12e8	2.14e7	4.14e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:31	5.46e7	1.03e8	1.73e7	3.17e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	34:11	4.86e7	3.92e7	1.62e7	1.30e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:17	5.31e7	4.25e7	1.61e7	1.31e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:49	4.98e7	4.14e7	1.76e7	1.41e7	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	35:32	4.24e7	3.36e7	1.35e7	1.06e7	-----	-----	1.26	

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Client ID		Injected By	CVS
Lab ID	CS3/CPM-7604-304	Instrument ID	10MSHR06 (U)
Filename	U140513A_17	GC Column ID	USD397111H
Analyzed	05/13/2014 20:48	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	7.26e7	5.82e7	2.76e7	2.26e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	35:01	8.53e7	6.89e7	2.90e7	2.36e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	35:16	7.63e7	6.13e7	2.65e7	2.11e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:57	3.63e7	2.96e7	1.43e7	1.15e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	35:02	3.94e7	3.17e7	1.38e7	1.07e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:16	3.75e7	3.19e7	1.25e7	1.07e7	-----	-----	1.18	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	4.51e7	1.01e8	1.69e7	3.93e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	3.33e7	7.34e7	1.09e7	2.58e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:46	5.02e7	4.81e7	1.79e7	1.79e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:01	3.57e7	3.49e7	1.09e7	1.13e7	-----	-----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	5.42e7	5.03e7	1.99e7	1.84e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	37:37	2.93e7	2.72e7	9.58e6	9.02e6	-----	-----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	4.40e7	4.90e7	1.24e7	1.37e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	7.78e7	8.61e7	2.08e7	2.38e7	-----	-----	0.90	
OCDD	40:11	4.02e7	4.44e7	1.06e7	1.19e7	-----	-----	0.91	

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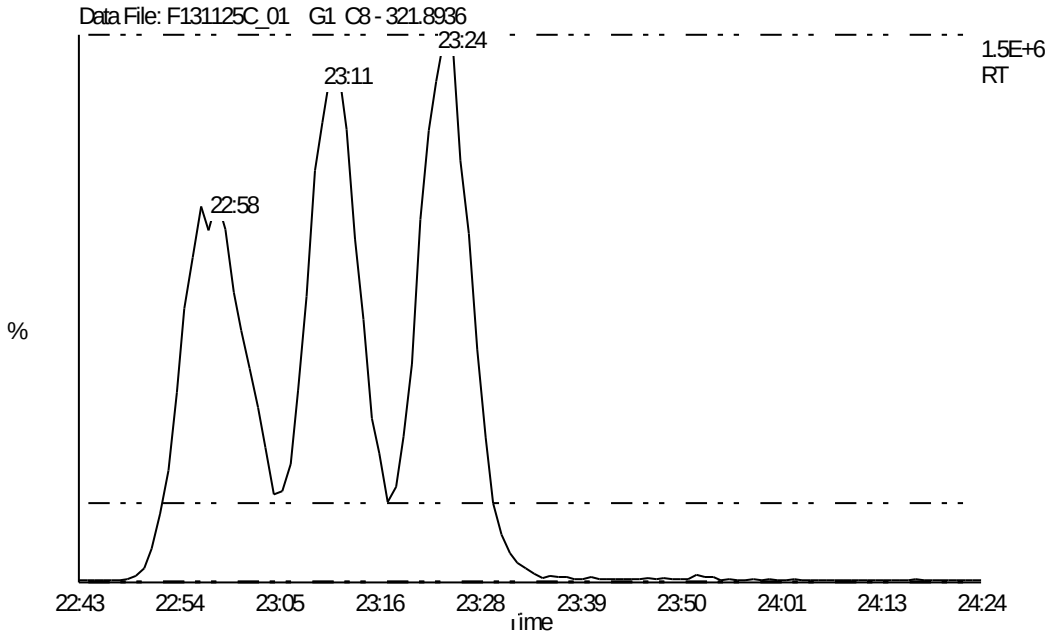
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-288	Injected By	BAL	
Raw Data File	F131125C_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	11/25/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	20:17	GC Column S/N	USD331524H	
Resolution	**14.3%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	17:43	25:15
PeCDF	341.8567	24:59	33:45
HxCDF	373.8207	34:45	38:18
HpCDF	407.7818	40:01	41:40
OCDF	441.7428	44:29	44:29
TCDD	321.8936	19:15	24:53
PeCDD	357.8517	28:16	33:20
HxCDD	391.8127	35:32	37:54
HpCDD	425.7737	40:20	41:08
OCDD	459.7347	44:15	44:15
1234-TCDD-13C(RS)	331.9367	22:28	22:28
123789-HxCDD-13C(RS)	401.8559	37:53	37:53

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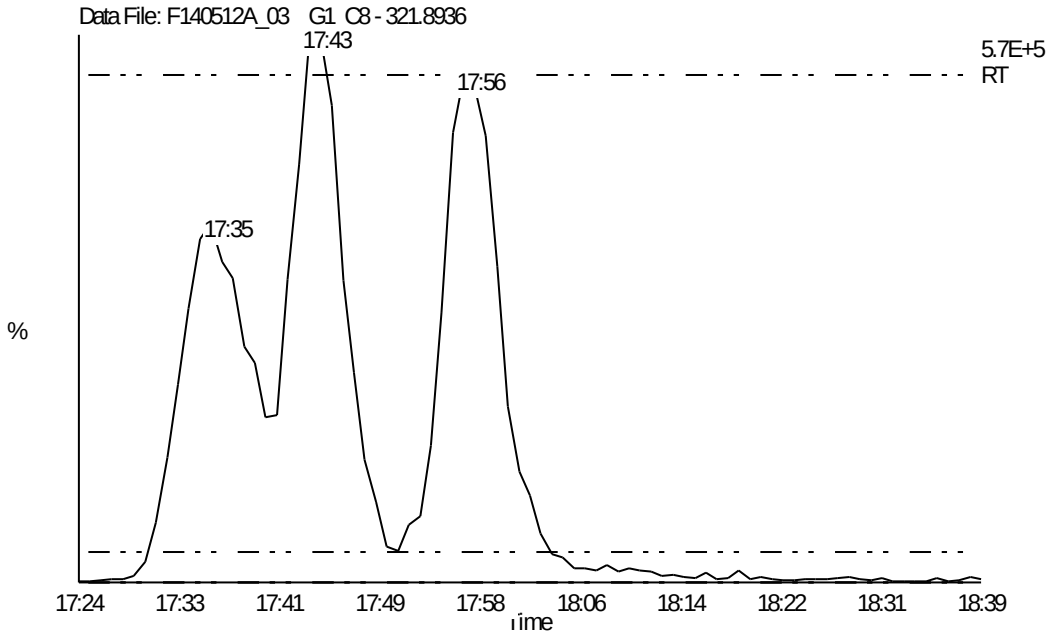
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-304	Injected By	SMT	
Raw Data File	F140512A_03	Instrument ID	10MSHR05 (F)	
Date Analyzed	5/12/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	13:25	GC Column S/N	USD331524H	
Resolution	**6.0%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	13:33	19:17
PeCDF	341.8567	19:15	28:44
HxCDF	373.8207	30:42	35:20
HpCDF	407.7818	37:19	39:04
OCDF	441.7428	41:39	0:00
TCDD	321.8936	14:44	19:03
PeCDD	357.8517	21:49	28:03
HxCDD	391.8127	31:54	34:57
HpCDD	425.7737	37:39	38:32
OCDD	459.7347	41:32	0:00
1234-TCDD-13C(RS)	331.9367	17:10	0:00
123789-HxCDD-13C(RS)	401.8559	34:56	0:00

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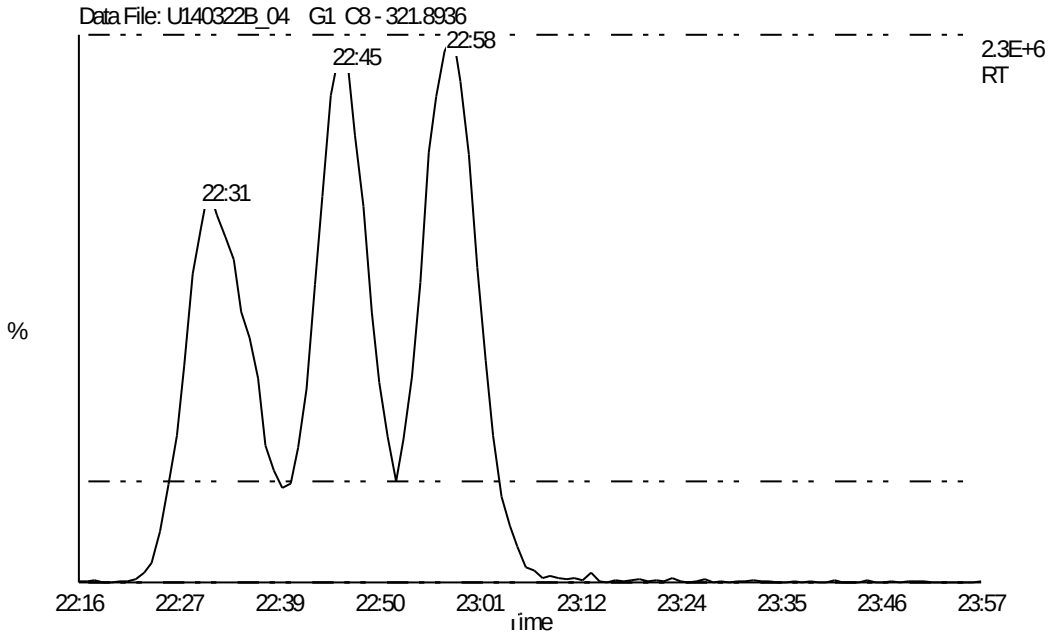
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	BAL	
Raw Data File	U140322B_04	Instrument ID	10MSHR06 (U)	
Date Analyzed	3/22/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	15:20	GC Column S/N	USD397111H	
Resolution	**18.5%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	17:11	24:47
PeCDF	341.8567	24:42	0:00
HxCDF	373.8207	33:00	35:36
HpCDF	407.7818	36:50	38:09
OCDF	441.7428	40:29	0:00
TCDD	321.8936	18:45	24:28
PeCDD	357.8517	28:02	31:53
HxCDD	391.8127	33:36	35:20
HpCDD	425.7737	37:04	37:43
OCDD	459.7347	40:19	0:00
1234-TCDD-13C(RS)	331.9367	22:03	0:00
123789-HxCDD-13C(RS)	401.8559	35:20	0:00

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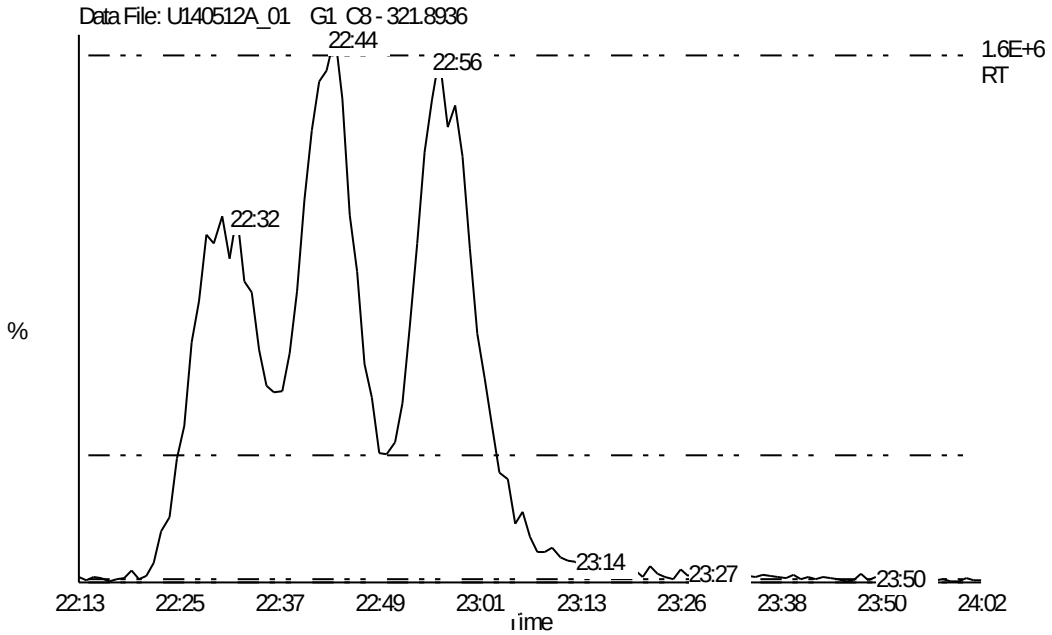
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-304	Injected By	SMT	
Raw Data File	U140512A_01	Instrument ID	10MSHR06 (U)	
Date Analyzed	5/12/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	10:48	GC Column S/N	USD397111H	
Resolution	**23.7%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	17:01	24:46
PeCDF	341.8567	24:46	32:09
HxCDF	373.8207	33:01	35:33
HpCDF	407.7818	36:47	38:02
OCDF	441.7428	40:21	0:00
TCDD	321.8936	18:40	24:28
PeCDD	357.8517	28:08	31:52
HxCDD	391.8127	33:36	35:18
HpCDD	425.7737	37:01	37:38
OCDD	459.7347	40:12	0:00
1234-TCDD-13C(RS)	331.9367	21:58	0:00
123789-HxCDD-13C(RS)	401.8559	35:17	0:00

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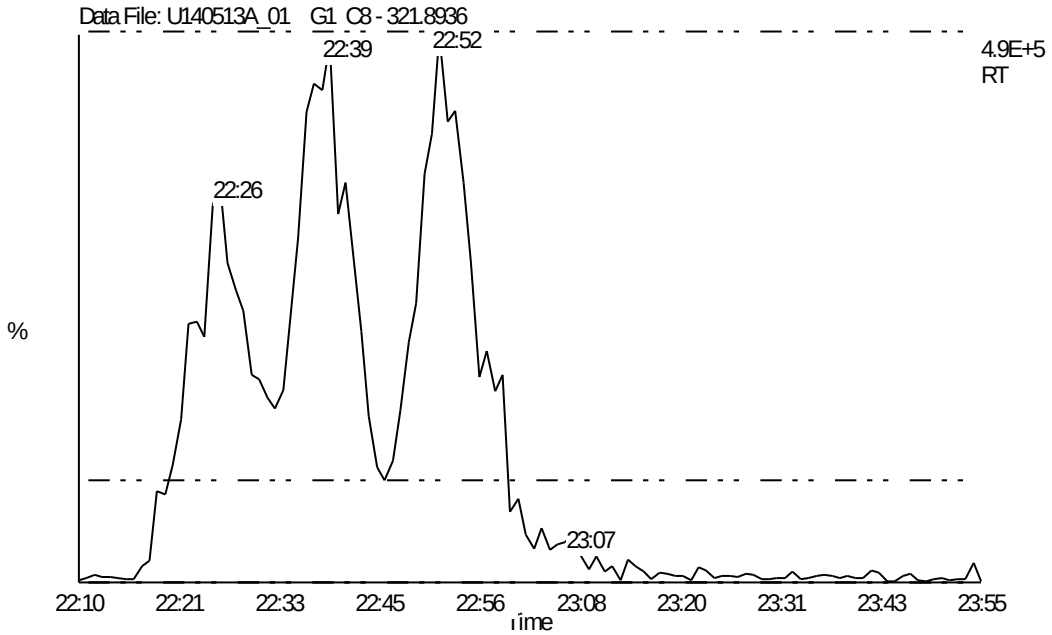
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-304	Injected By	SMT	
Raw Data File	U140513A_01	Instrument ID	10MSHR06 (U)	
Date Analyzed	5/13/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	08:11	GC Column S/N	USD397111H	
Resolution	**18.6%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:59	24:40
PeCDF	341.8567	24:40	32:07
HxCDF	373.8207	32:59	35:32
HpCDF	407.7818	36:46	38:02
OCDF	441.7428	40:20	0:00
TCDD	321.8936	18:35	24:24
PeCDD	357.8517	28:04	31:51
HxCDD	391.8127	33:34	35:17
HpCDD	425.7737	37:00	37:37
OCDD	459.7347	40:11	0:00
1234-TCDD-13C(RS)	331.9367	21:53	0:00
123789-HxCDD-13C(RS)	401.8559	35:16	0:00

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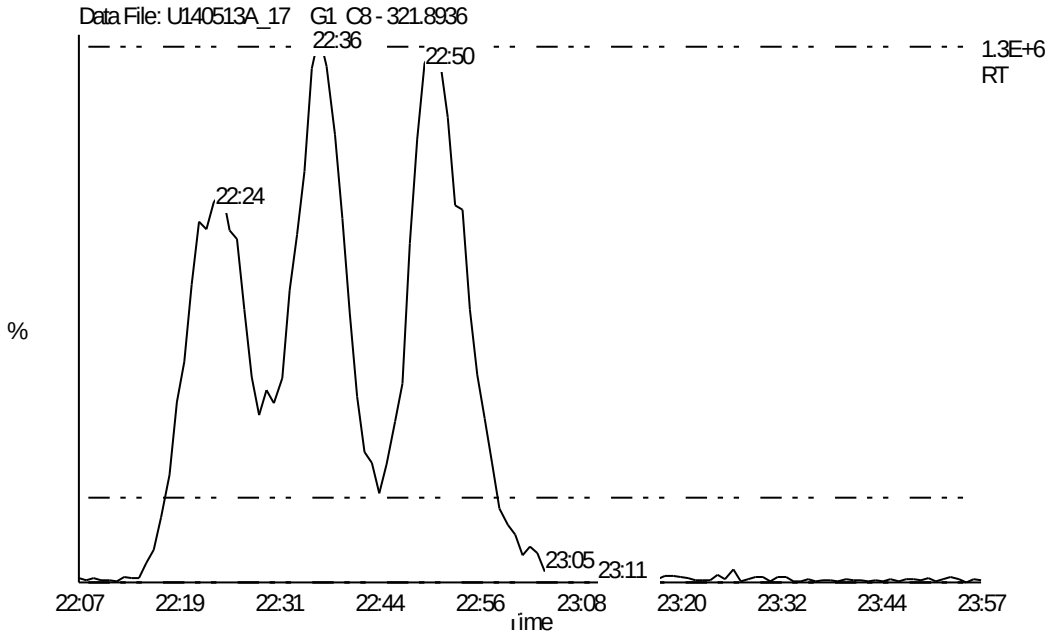
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-304	Injected By	CVS	
Raw Data File	U140513A_17	Instrument ID	10MSHR06 (U)	
Date Analyzed	5/13/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	20:48	GC Column S/N	USD397111H	
Resolution	**15.9%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:58	24:38
PeCDF	341.8567	24:39	32:06
HxCDF	373.8207	32:58	35:32
HpCDF	407.7818	36:45	38:01
OCDF	441.7428	40:19	0:00
TCDD	321.8936	18:35	24:22
PeCDD	357.8517	28:02	31:49
HxCDD	391.8127	33:33	35:15
HpCDD	425.7737	36:59	37:35
OCDD	459.7347	40:10	0:00
1234-TCDD-13C(RS)	331.9367	21:52	0:00
123789-HxCDD-13C(RS)	401.8559	35:15	0:00

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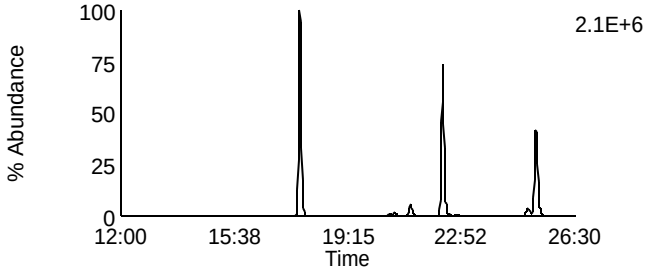
Homologue Group: Tetras

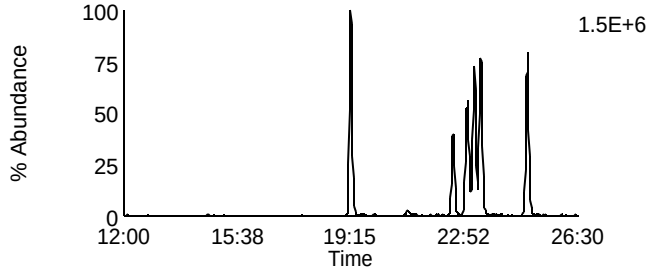
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

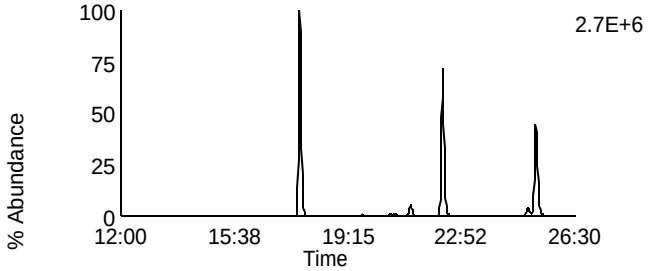
Data File: F131125C_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-288 - BAL USD331524H



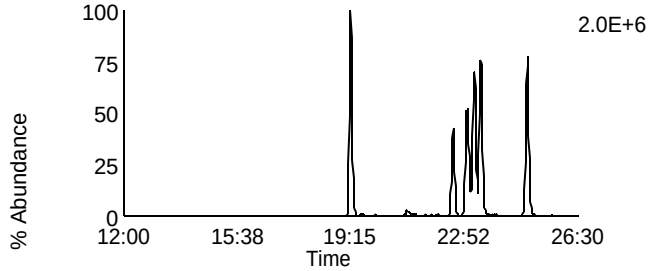
Data File: F131125C_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-288 - BAL USD331524H



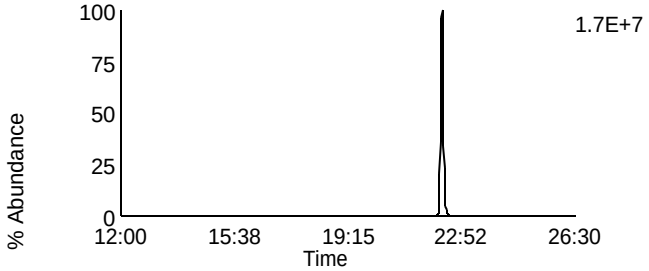
Data File: F131125C_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-288 - BAL USD331524H



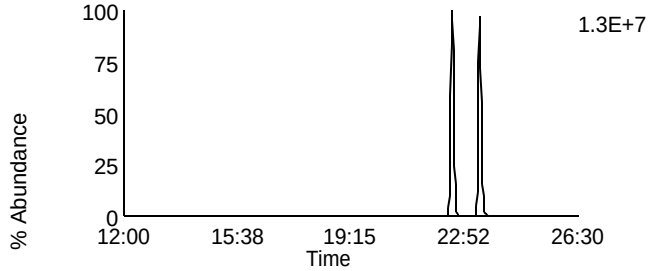
Data File: F131125C_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-288 - BAL USD331524H



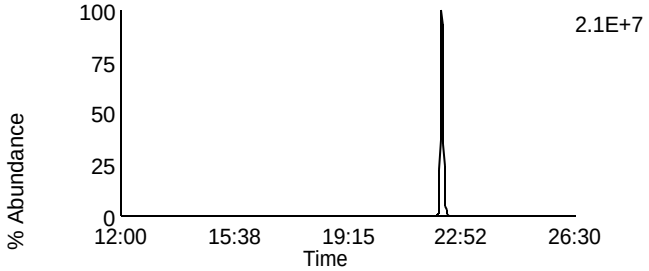
Data File: F131125C_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-288 - BAL USD331524H



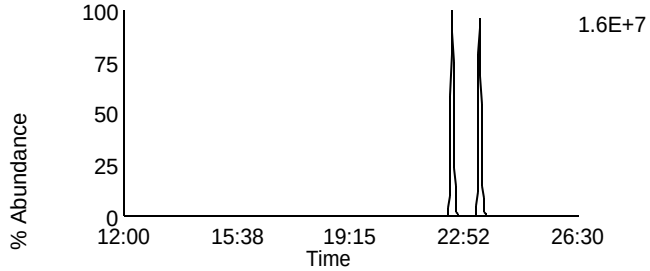
Data File: F131125C_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-288 - BAL USD331524H



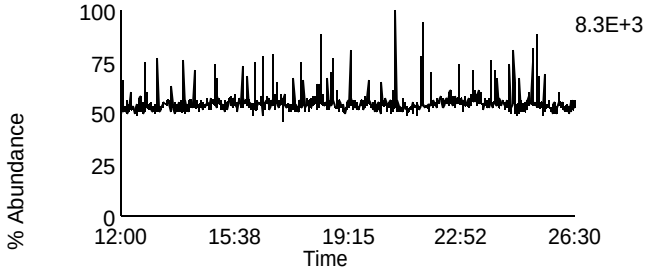
Data File: F131125C_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-288 - BAL USD331524H



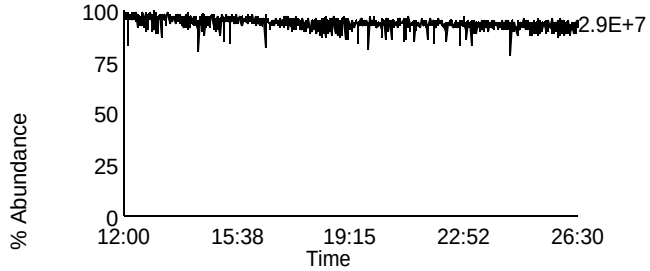
Data File: F131125C_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-288 - BAL USD331524H



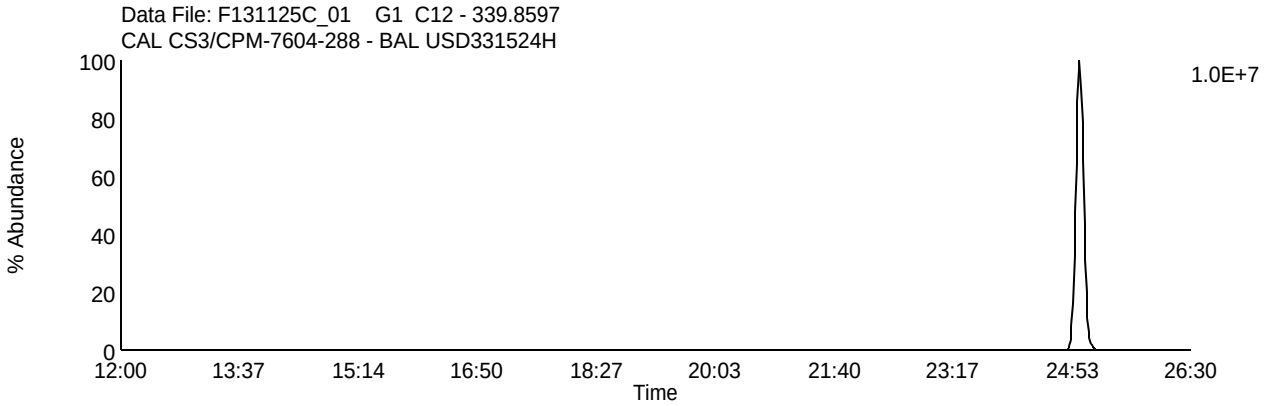
Data File: F131125C_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

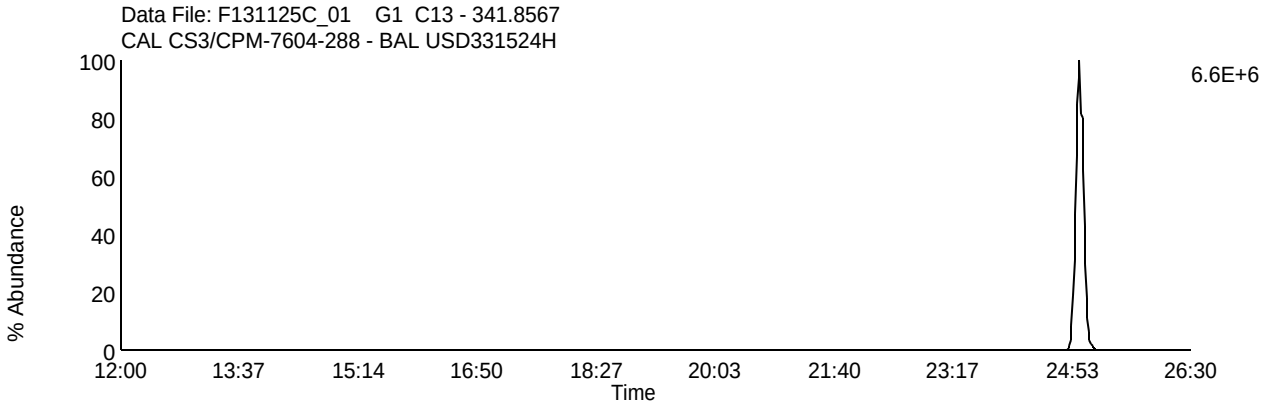


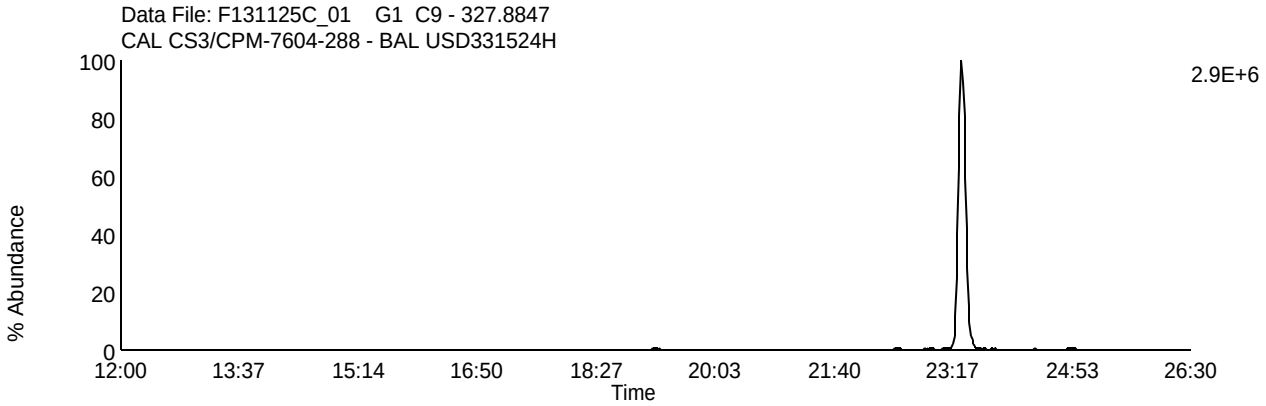
Homologue Group: Penta & Cleanup

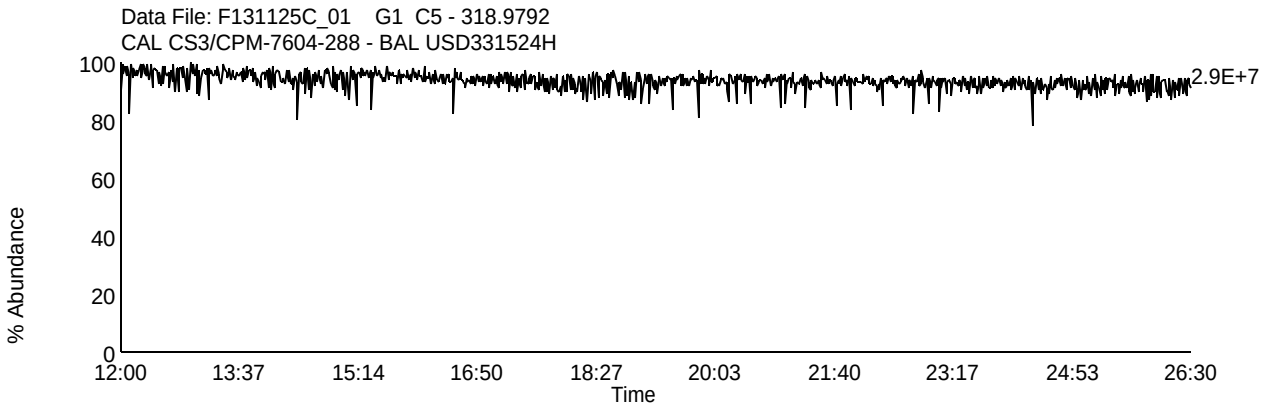
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)







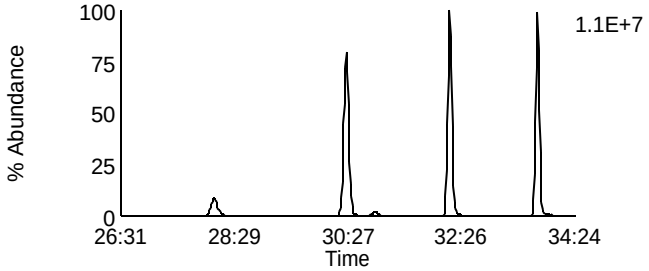


Homologue Group: Pentas

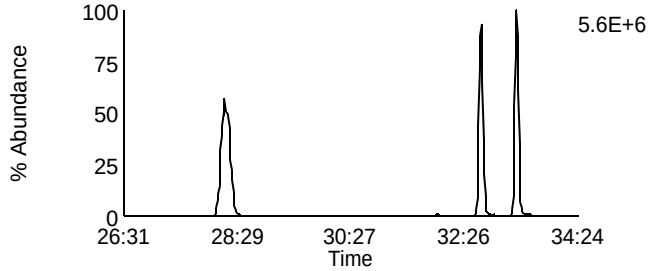
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

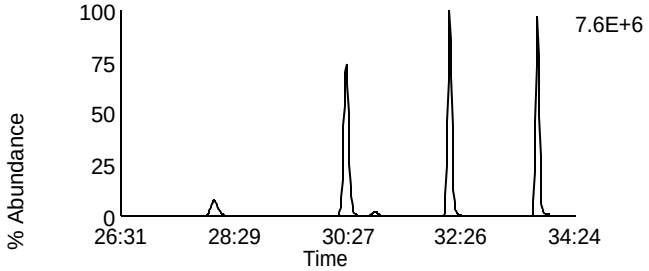
Data File: F131125C_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-288 - BAL USD331524H



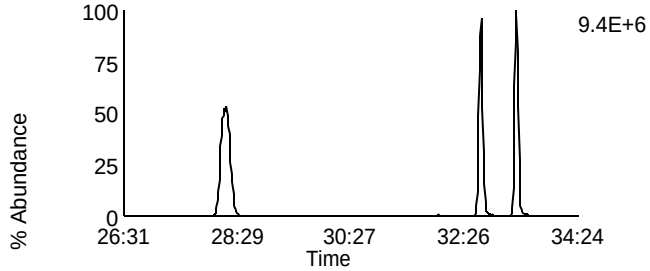
Data File: F131125C_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-288 - BAL USD331524H



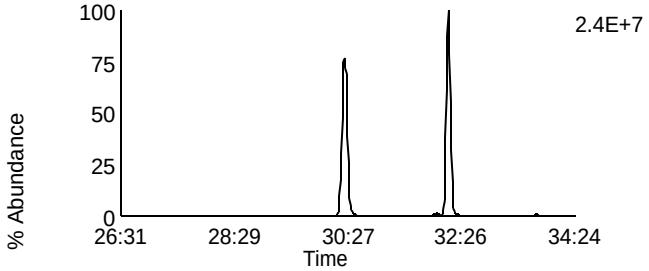
Data File: F131125C_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-288 - BAL USD331524H



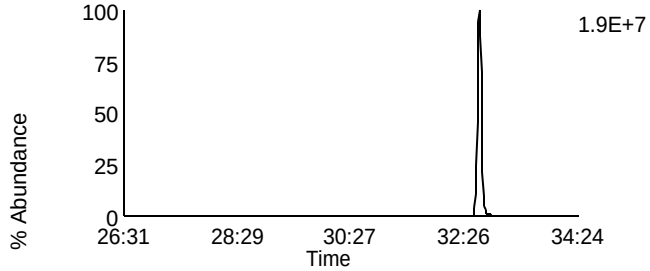
Data File: F131125C_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-288 - BAL USD331524H



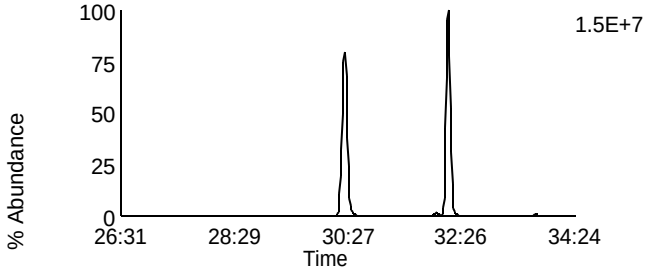
Data File: F131125C_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-288 - BAL USD331524H



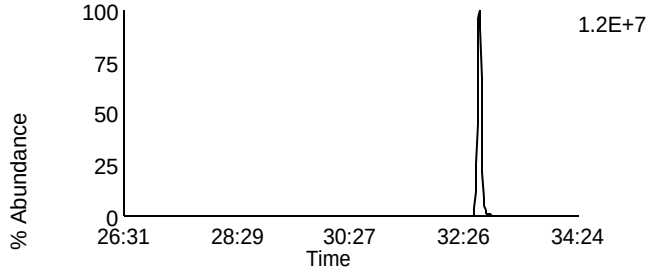
Data File: F131125C_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-288 - BAL USD331524H



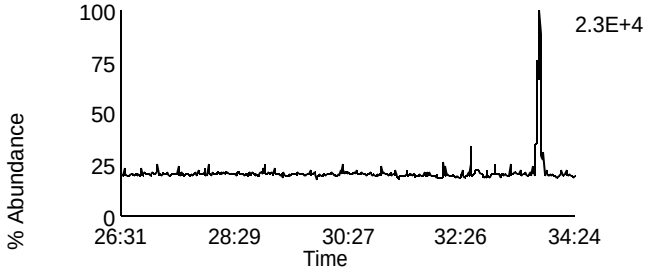
Data File: F131125C_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-288 - BAL USD331524H



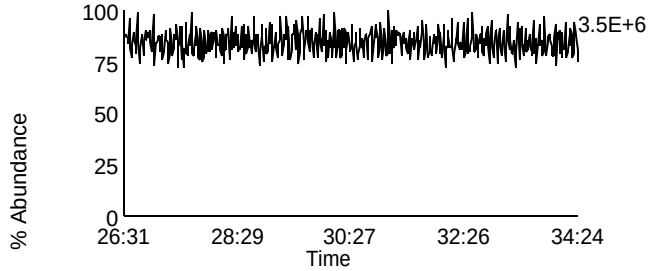
Data File: F131125C_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

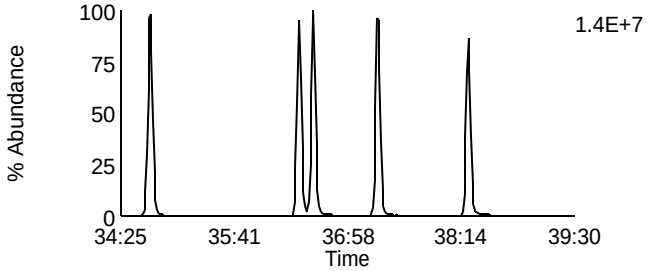


Homologue Group: Hexas

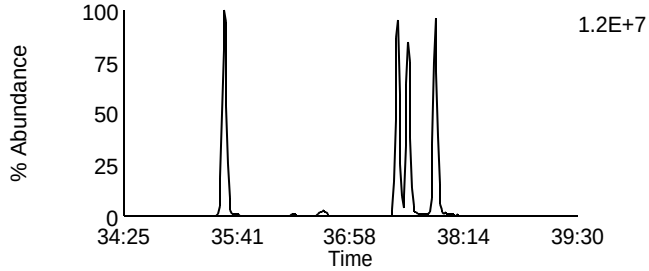
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

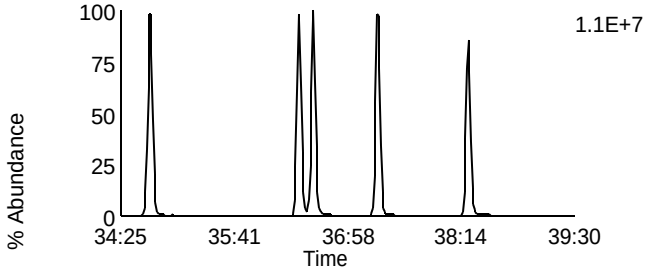
Data File: F131125C_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-288 - BAL USD331524H



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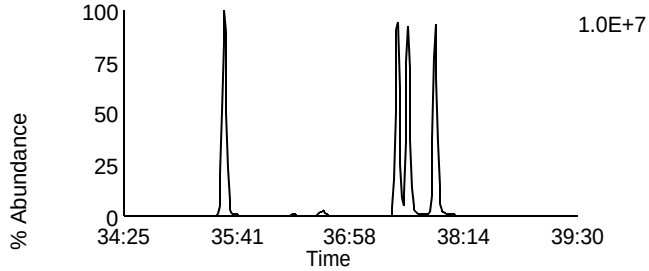
CAL CS3/CPM-7604-288 - BAL USD331524H



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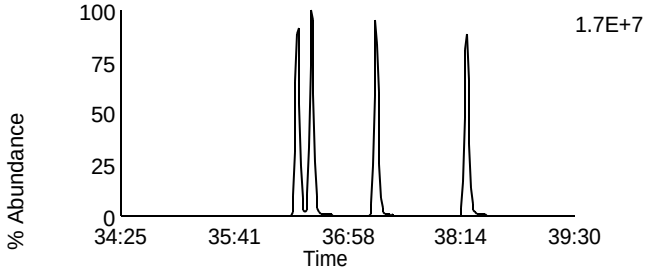
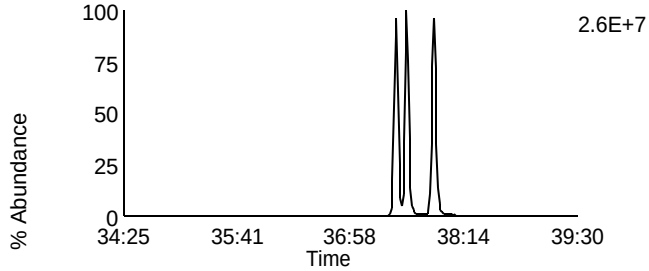
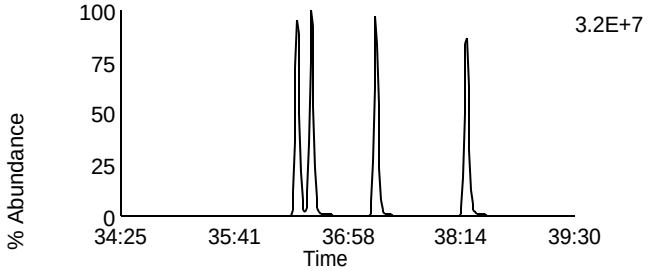
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C6 - 385.861
CAL CS3/CPM-7604-288 - BAL USD331524H



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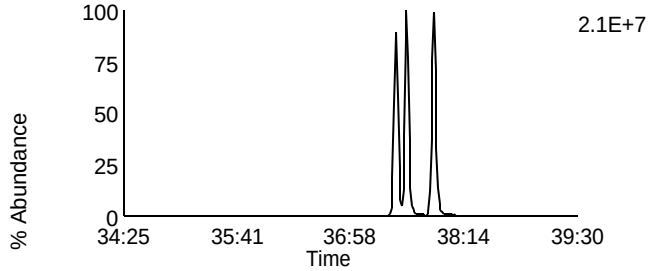
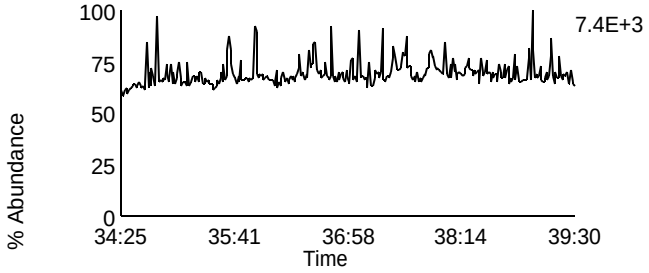
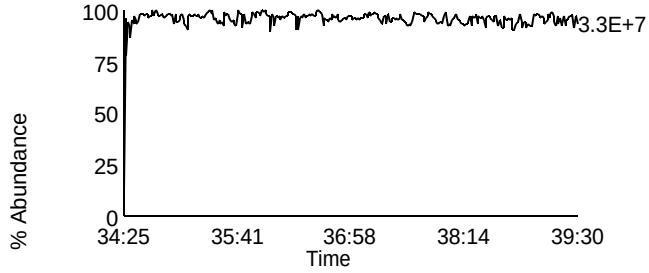
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G3 C3 - 380.976
CAL CS3/CPM-7604-288 - BAL USD331524H

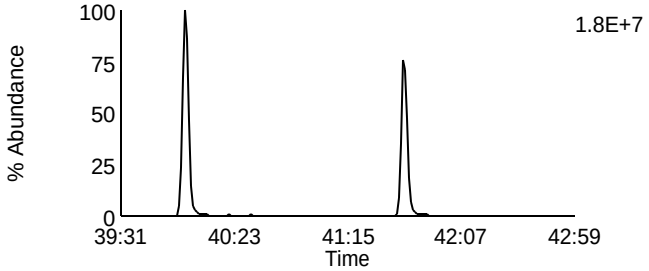


Homologue Group: Heptas

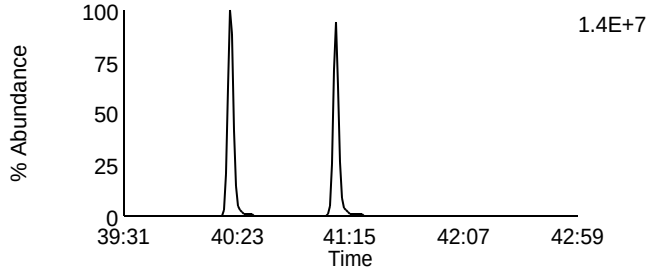
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

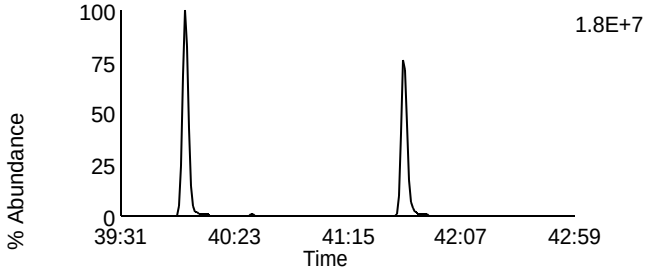
Data File: F131125C_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-288 - BAL USD331524H



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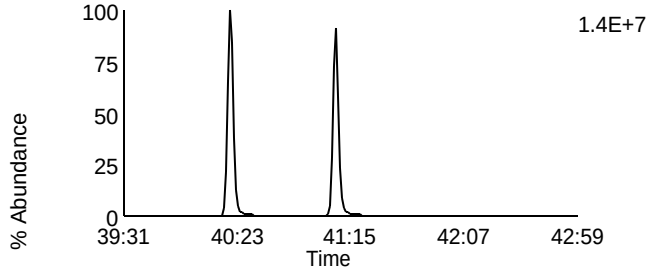
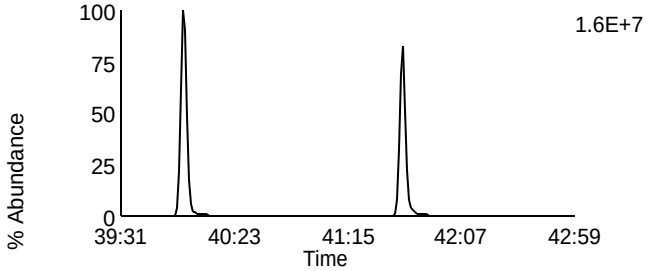
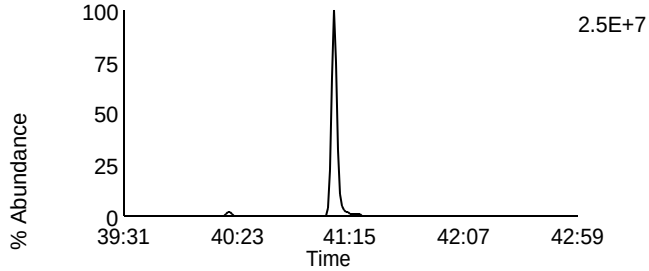
CAL CS3/CPM-7604-288 - BAL USD331524H



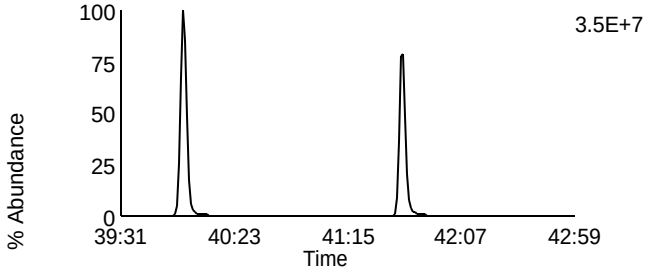
Data File: F131125C_01 G4 C6 - 417.825
CAL CS3/CPM-7604-288 - BAL USD331524H



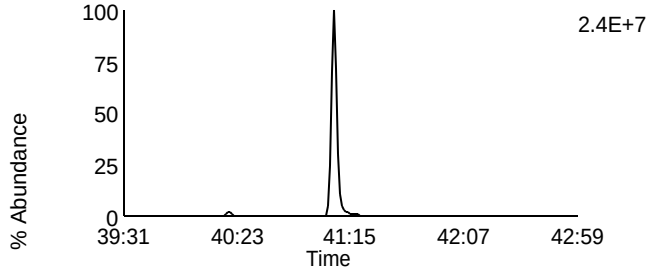
Data File: F131125C_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-288 - BAL USD331524H



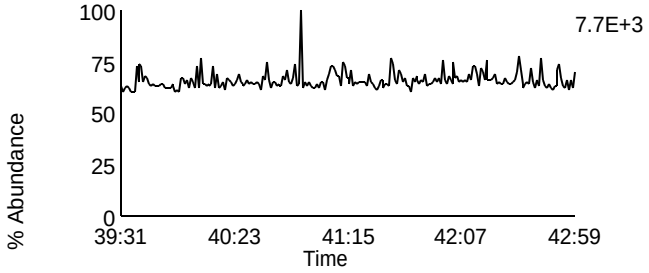
Data File: F131125C_01 G4 C7 - 419.822
CAL CS3/CPM-7604-288 - BAL USD331524H



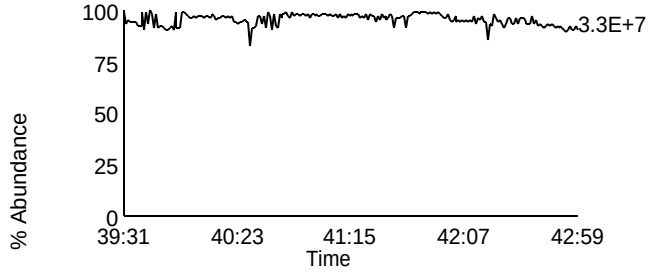
Data File: F131125C_01 G4 C12 - 437.814
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G4 C1 - 380.976
CAL CS3/CPM-7604-288 - BAL USD331524H

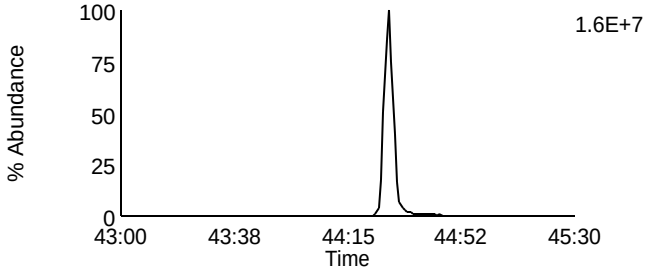


Homologue Group: Octas

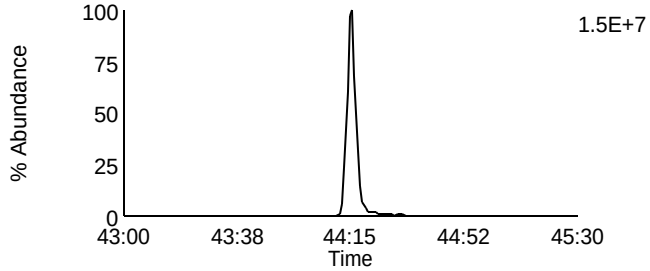
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

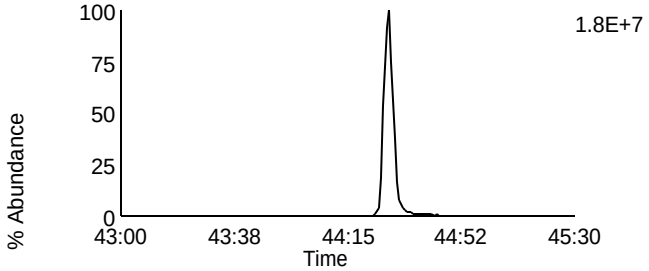
Data File: F131125C_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-288 - BAL USD331524H



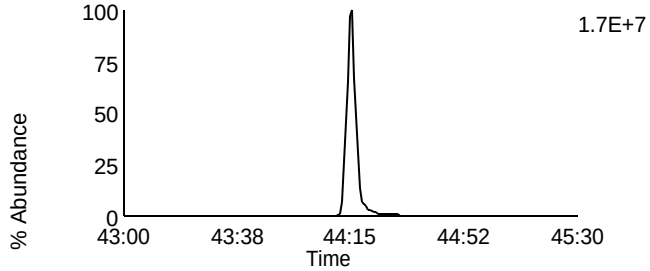
Data File: F131125C_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-288 - BAL USD331524H



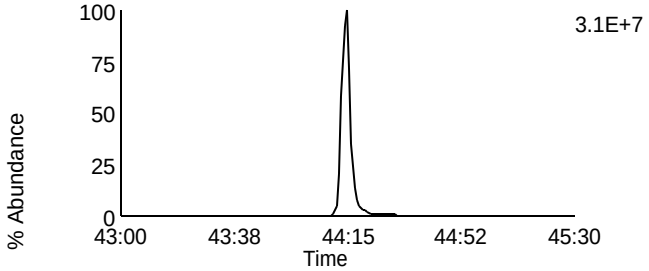
Data File: F131125C_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-288 - BAL USD331524H



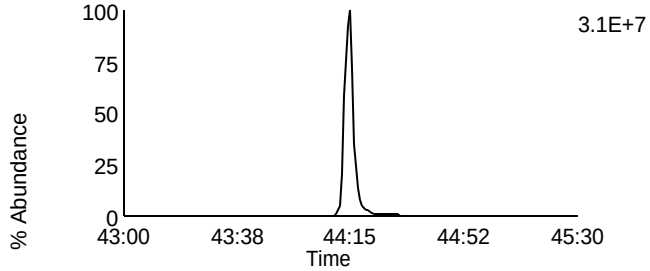
Data File: F131125C_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-288 - BAL USD331524H



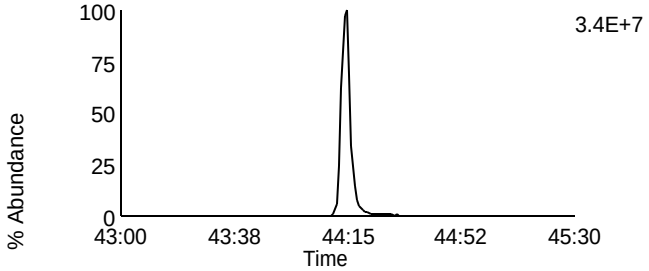
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



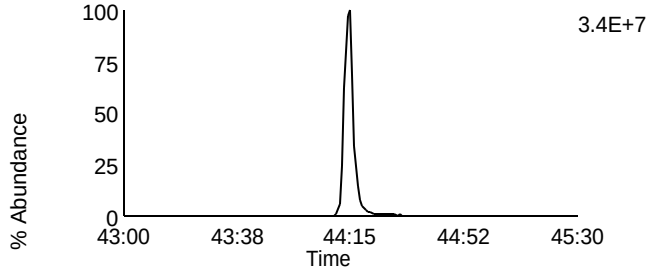
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



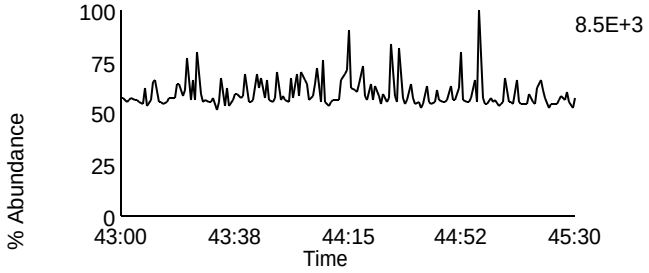
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



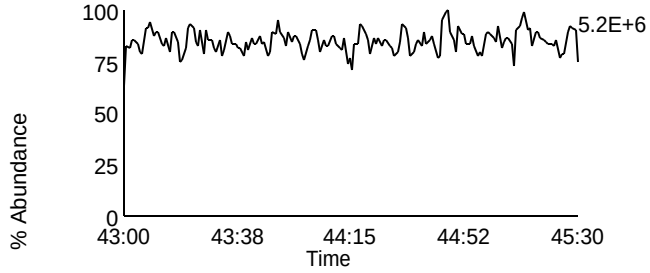
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-288 - BAL USD331524H

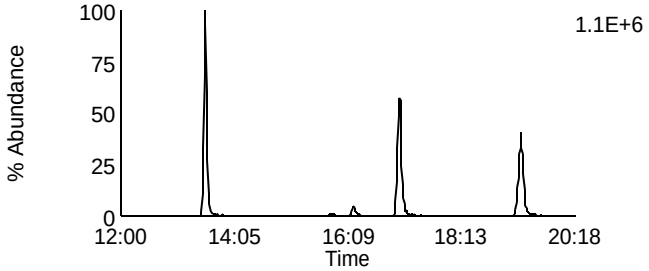


Homologue Group: Tetras

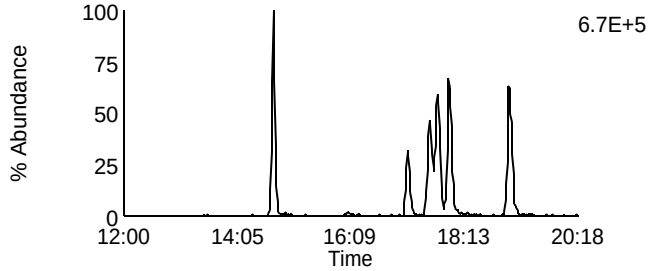
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

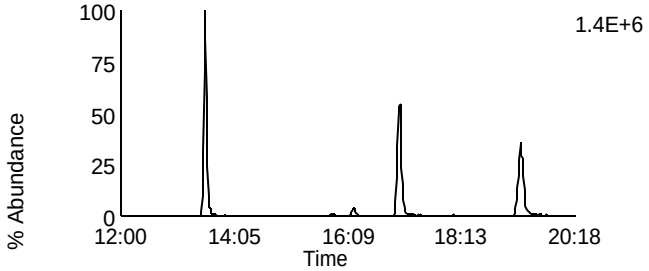
Data File: F140512A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT windows



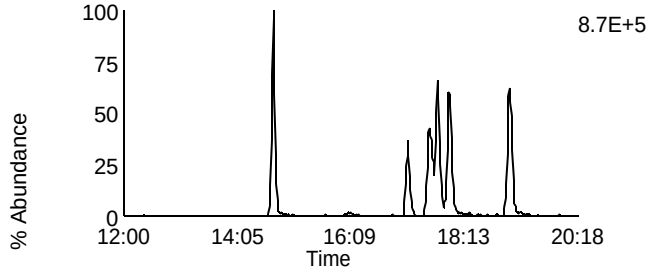
Data File: F140512A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT windows



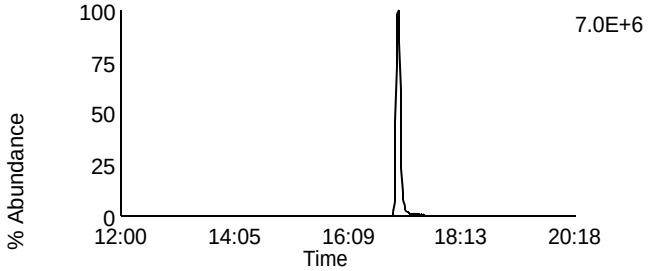
Data File: F140512A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT windows



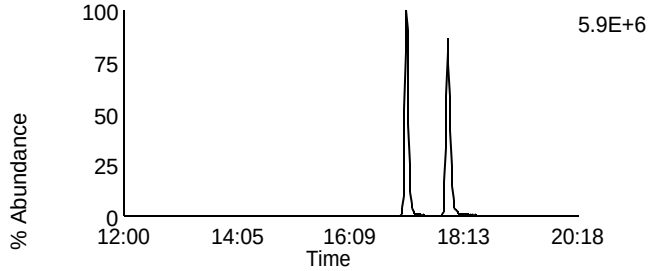
Data File: F140512A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT windows



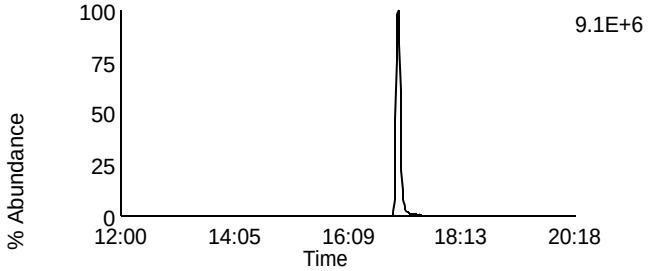
Data File: F140512A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT windows



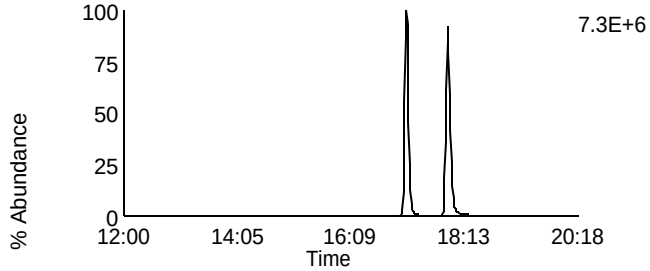
Data File: F140512A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT windows



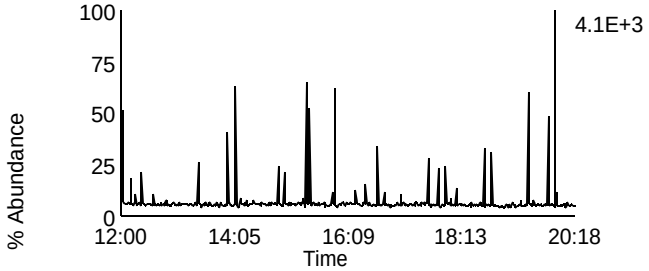
Data File: F140512A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT windows



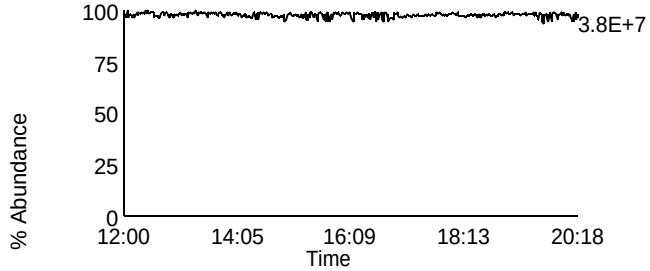
Data File: F140512A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT windows

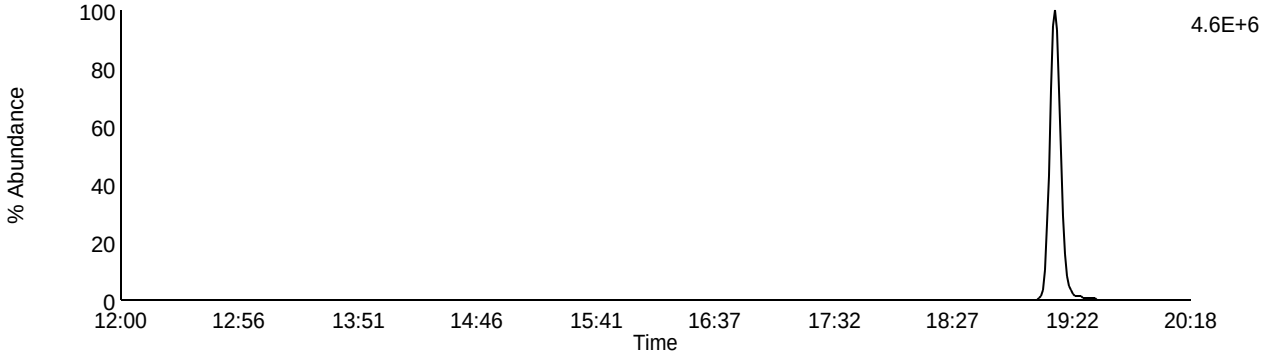


Homologue Group: Penta & Cleanup

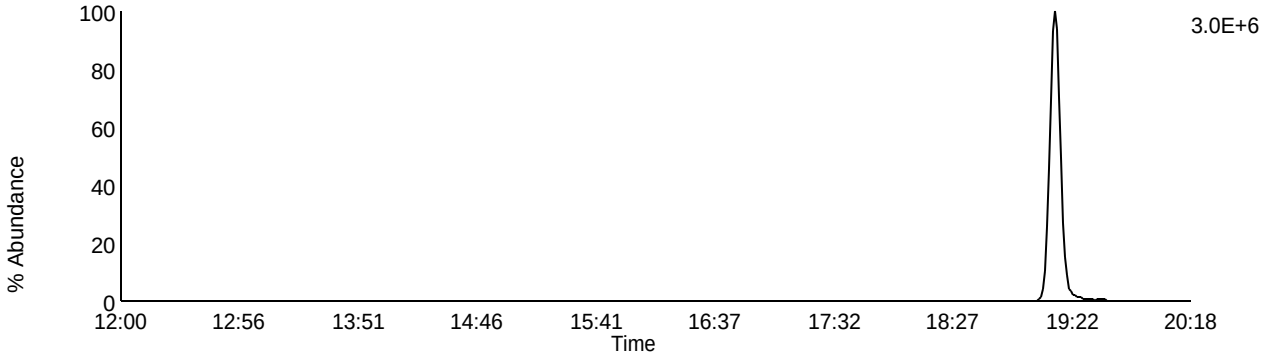
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

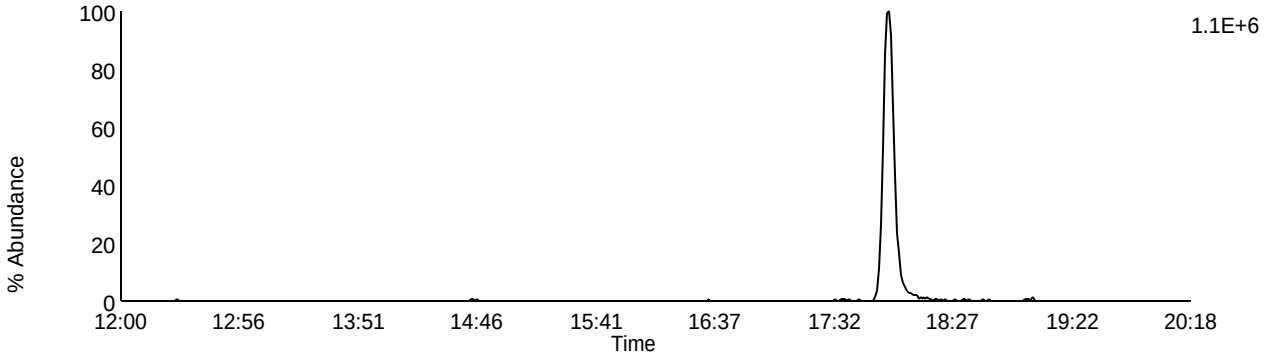
Data File: F140512A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT windows



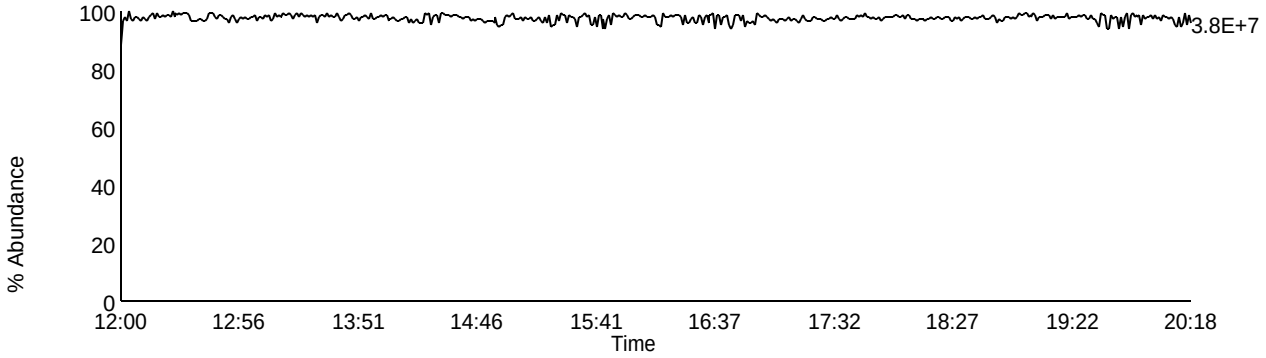
Data File: F140512A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT windows

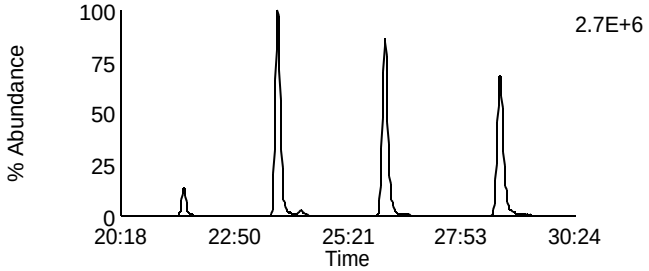


Homologue Group: Pentas

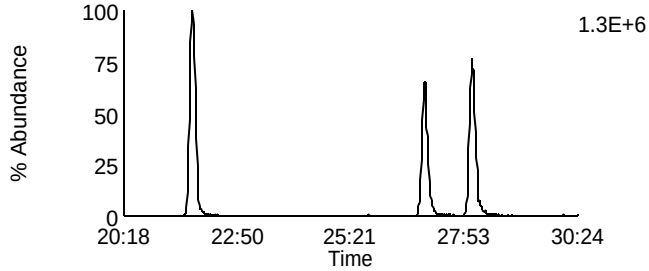
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

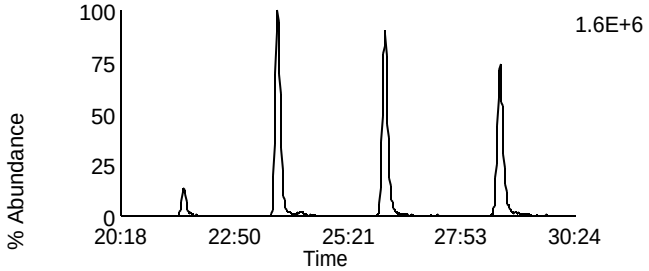
Data File: F140512A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT windows



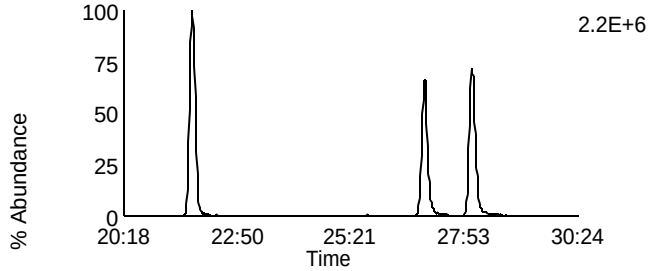
Data File: F140512A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT windows



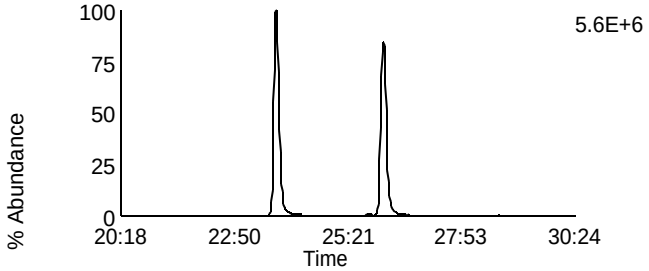
Data File: F140512A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT windows



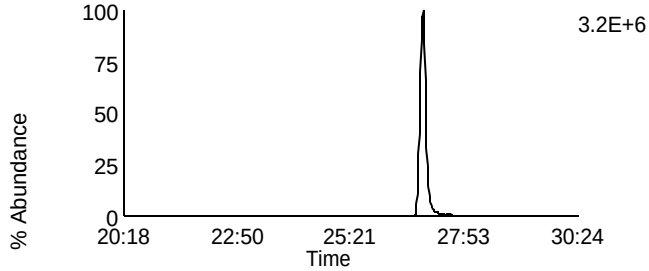
Data File: F140512A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT windows



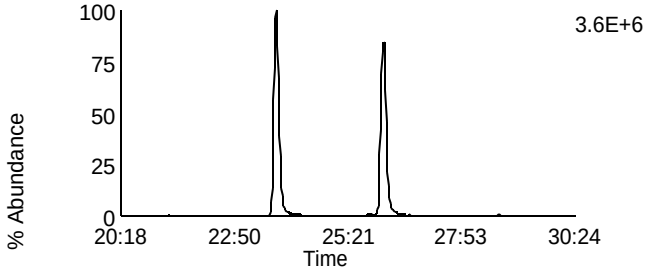
Data File: F140512A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT windows



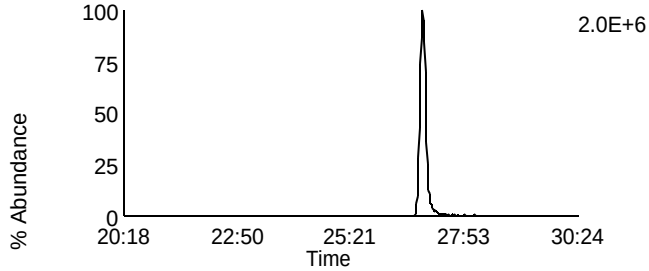
Data File: F140512A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT windows



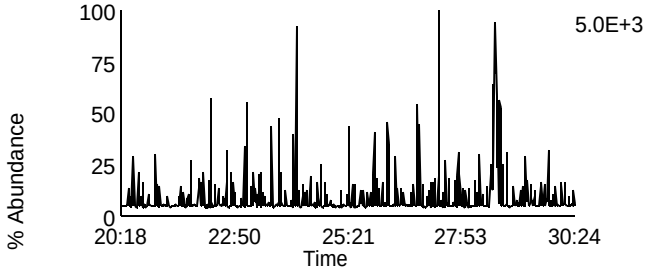
Data File: F140512A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT windows



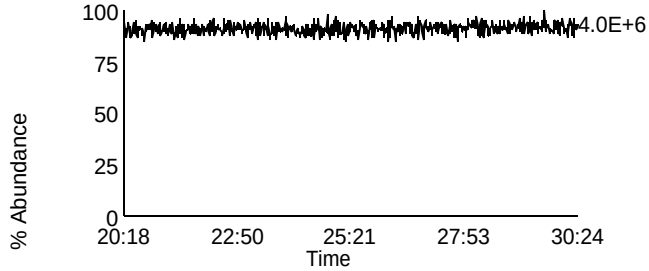
Data File: F140512A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT windows

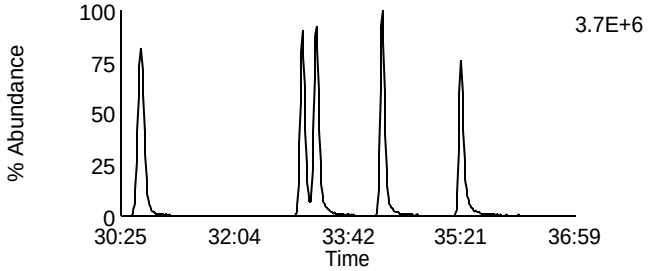


Homologue Group: Hexas

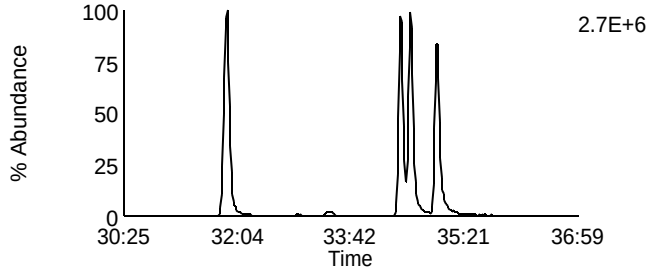
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

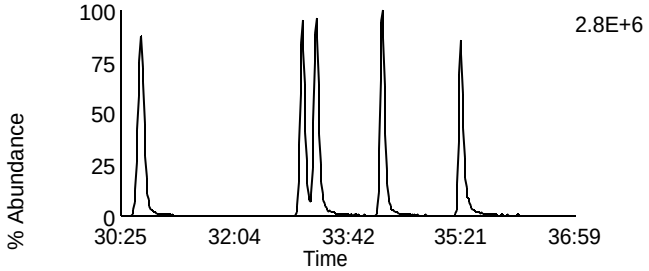
Data File: F140512A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT windows



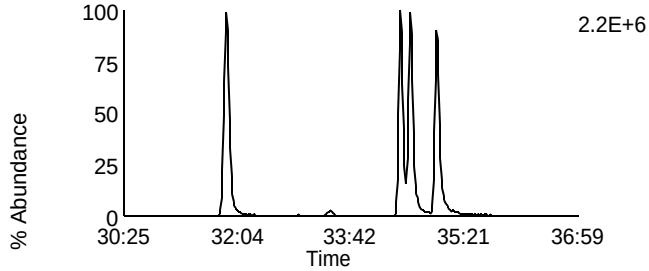
Data File: F140512A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT windows



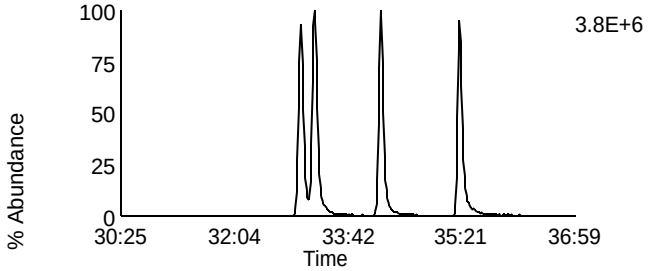
Data File: F140512A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT windows



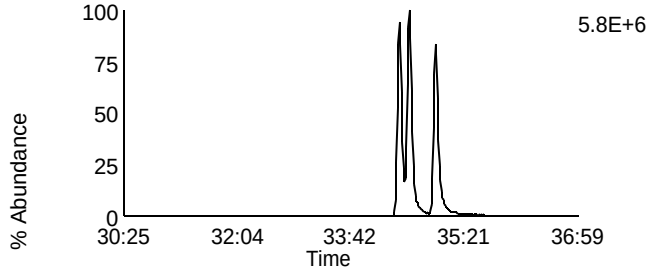
Data File: F140512A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT windows



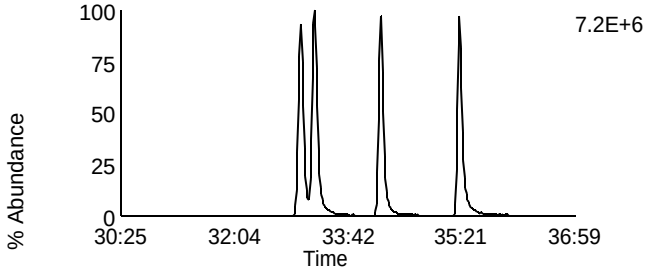
Data File: F140512A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-304 - SMT windows



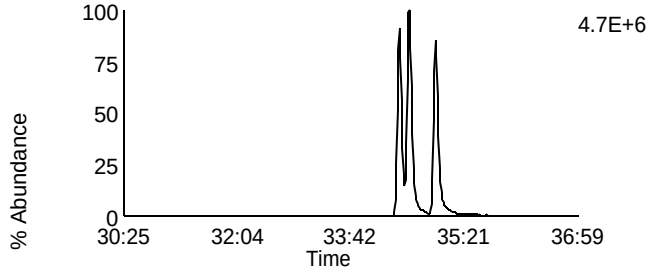
Data File: F140512A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT windows



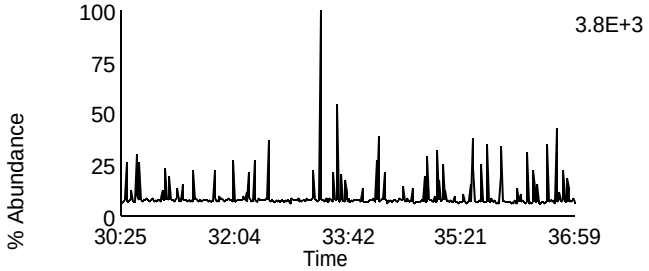
Data File: F140512A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT windows



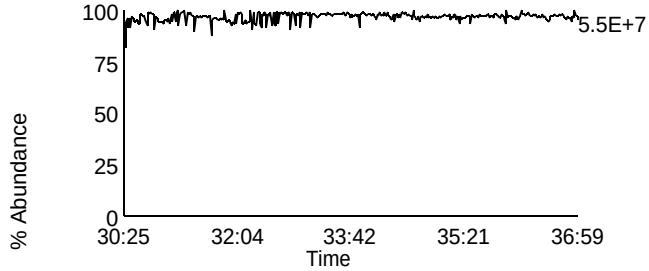
Data File: F140512A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT windows

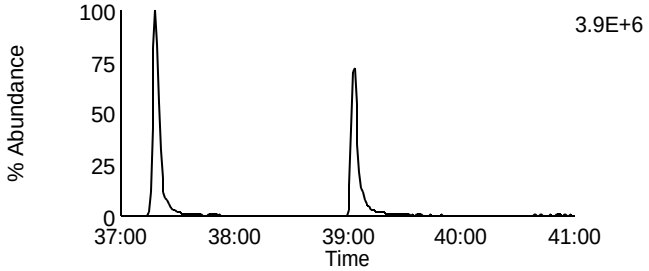


Homologue Group: Heptas

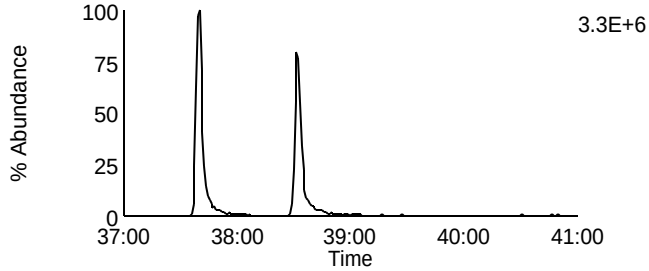
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

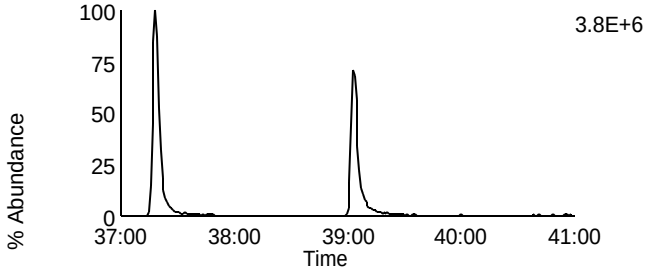
Data File: F140512A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT windows



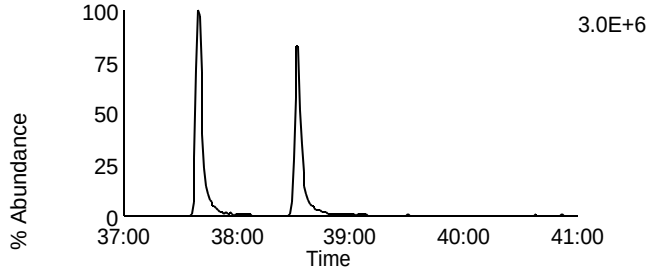
Data File: F140512A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT windows



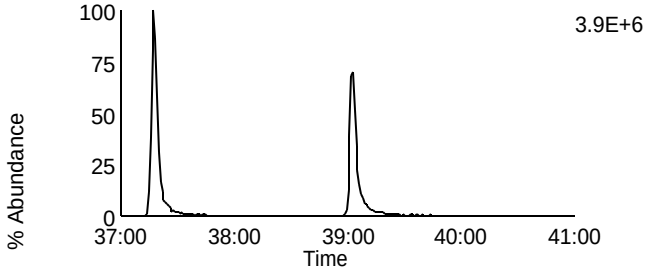
Data File: F140512A_03 G4 C4 - 409.7788
CAL CS3/CPM-7604-304 - SMT windows



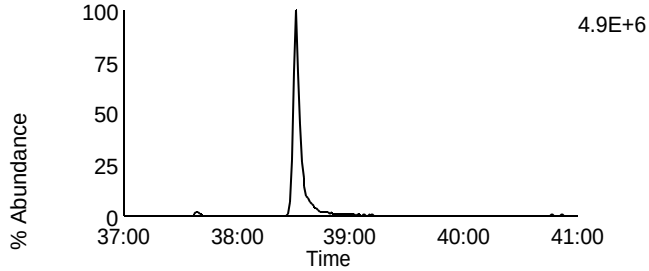
Data File: F140512A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT windows



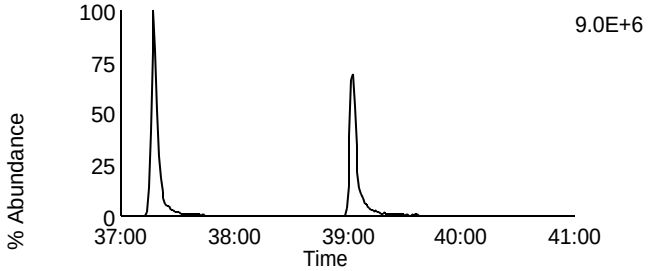
Data File: F140512A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT windows



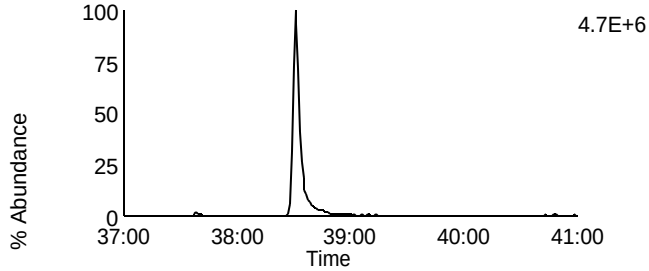
Data File: F140512A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT windows



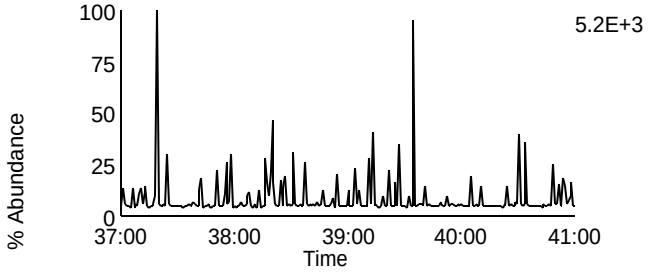
Data File: F140512A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT windows



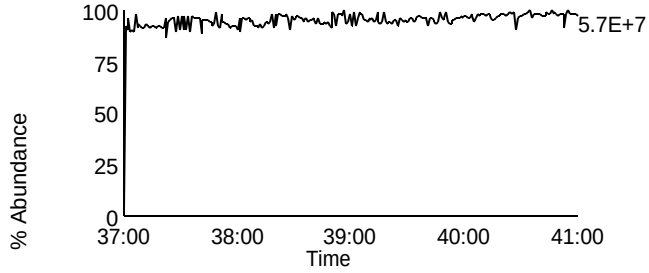
Data File: F140512A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT windows

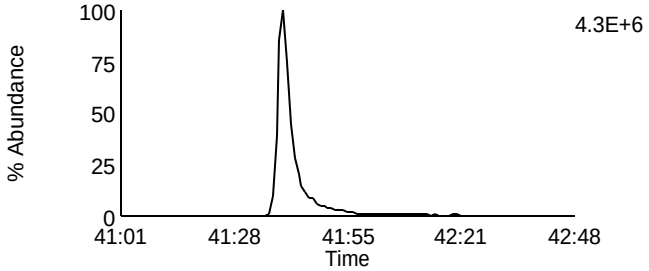


Homologue Group: Octas

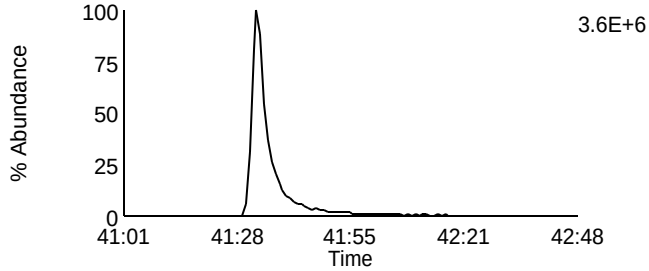
Data File Name: F140512A_03
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT windows

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

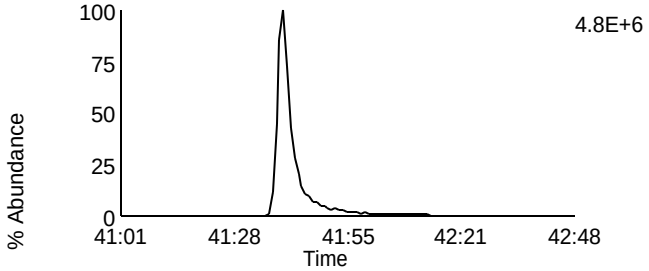
Data File: F140512A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT windows



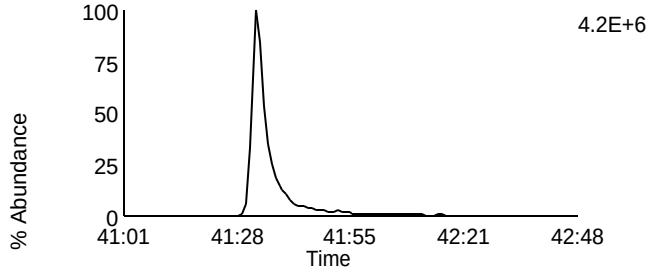
Data File: F140512A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT windows



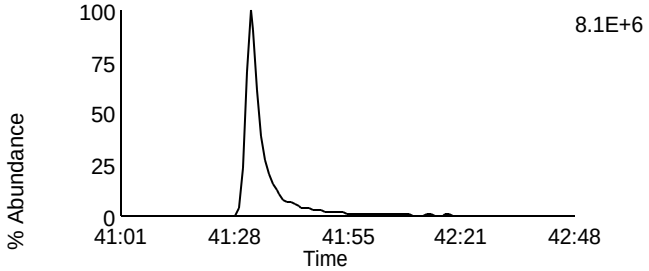
Data File: F140512A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT windows



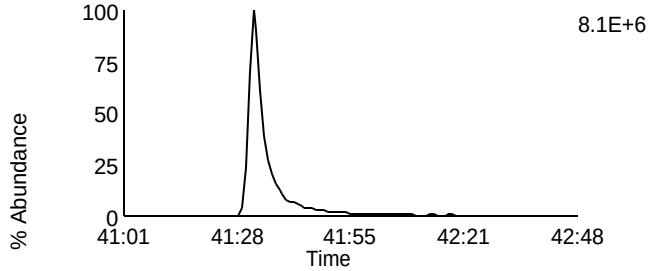
Data File: F140512A_03 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT windows



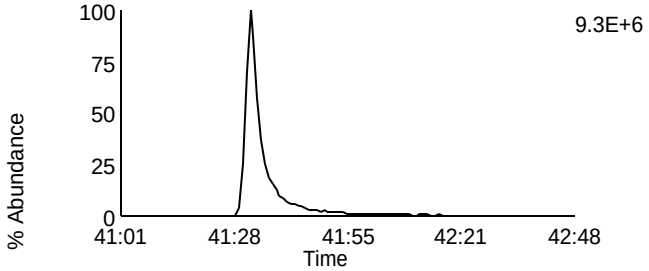
Data File: F140512A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT windows



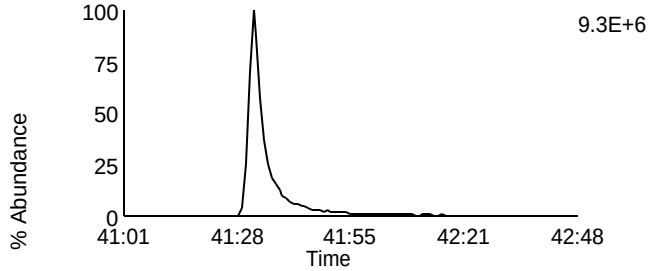
Data File: F140512A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT windows



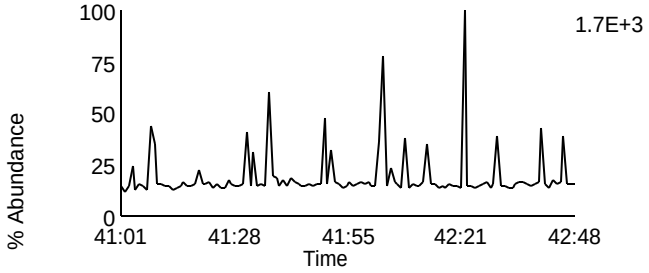
Data File: F140512A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT windows



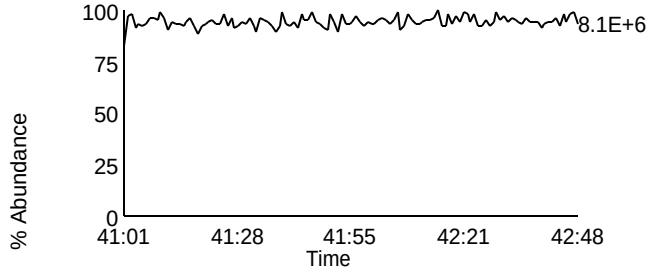
Data File: F140512A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT windows



Data File: F140512A_03 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT windows

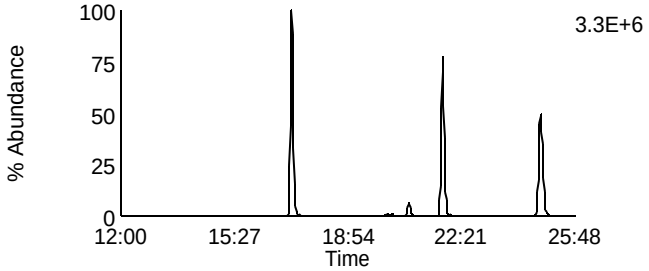


Homologue Group: Tetras

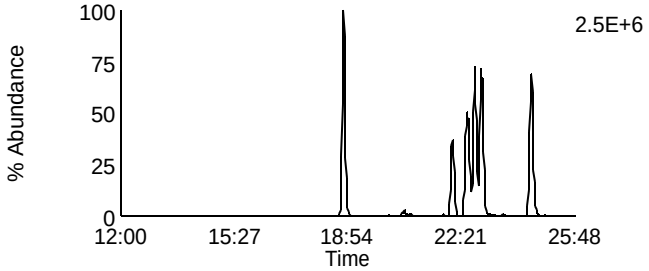
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

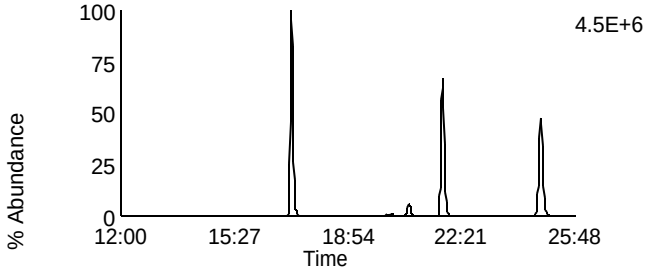
Data File: U140322B_04 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL



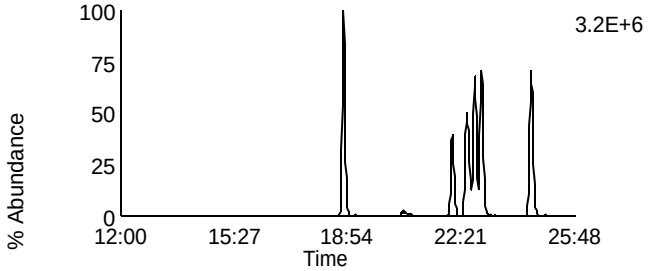
Data File: U140322B_04 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL



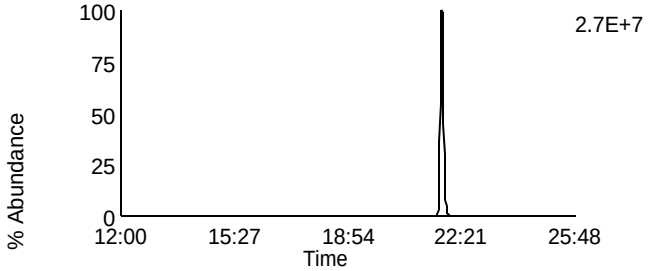
Data File: U140322B_04 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL



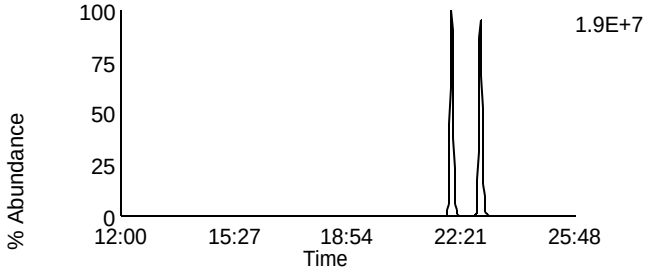
Data File: U140322B_04 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL



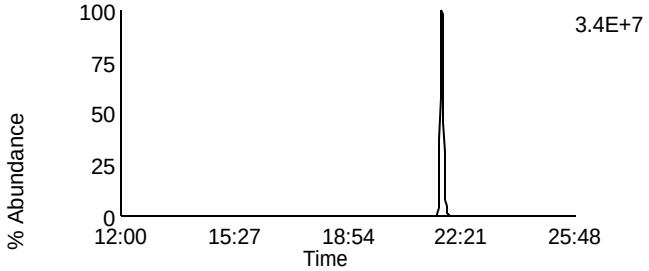
Data File: U140322B_04 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL



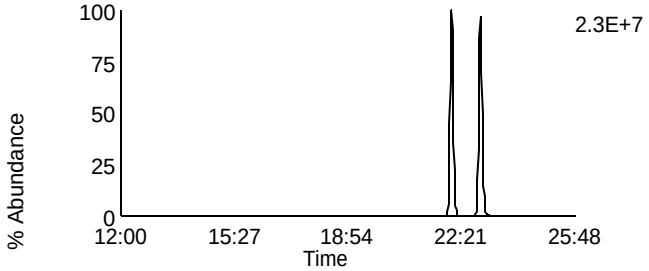
Data File: U140322B_04 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL



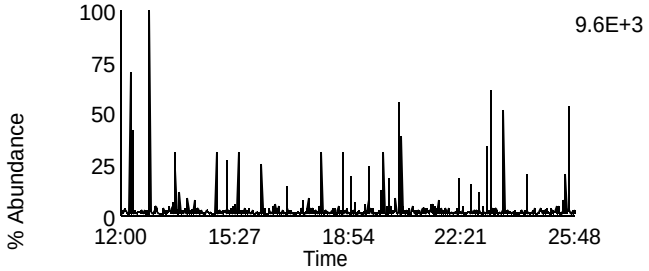
Data File: U140322B_04 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL



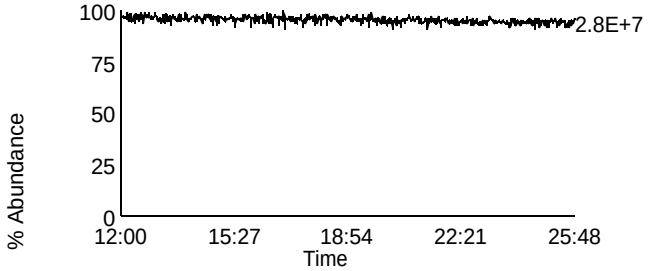
Data File: U140322B_04 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

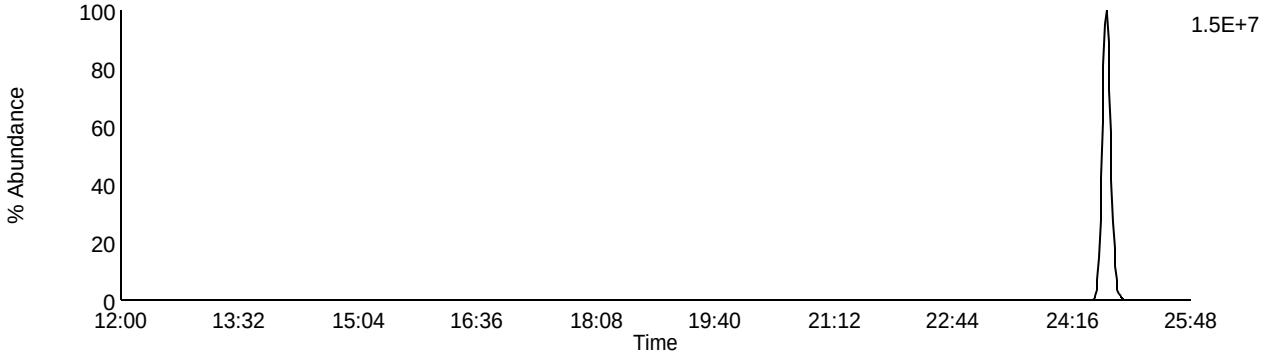


Homologue Group: Penta & Cleanup

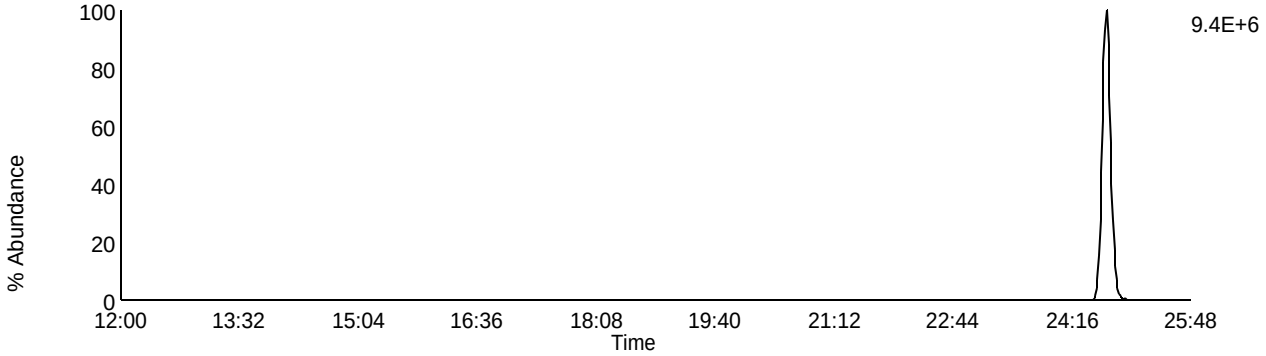
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

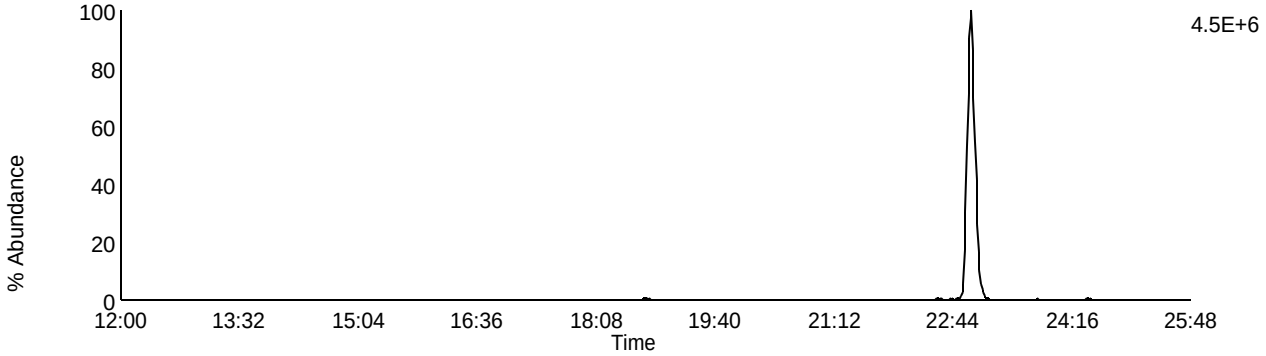
Data File: U140322B_04 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL



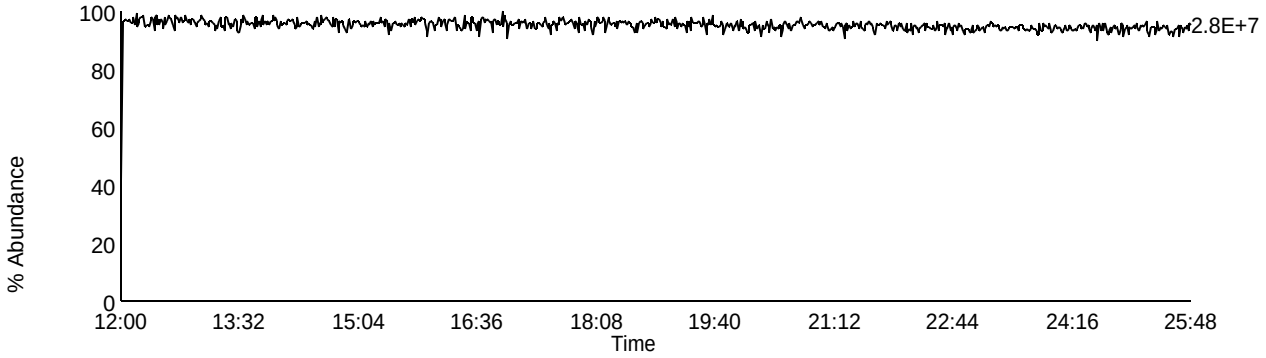
Data File: U140322B_04 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

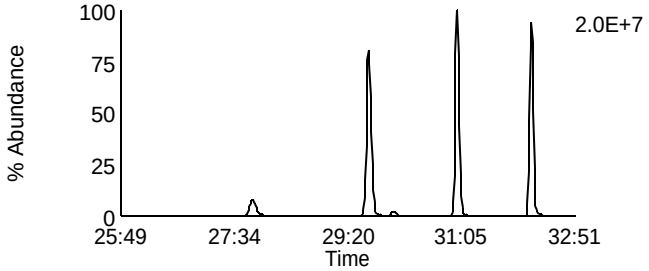


Homologue Group: Pentas

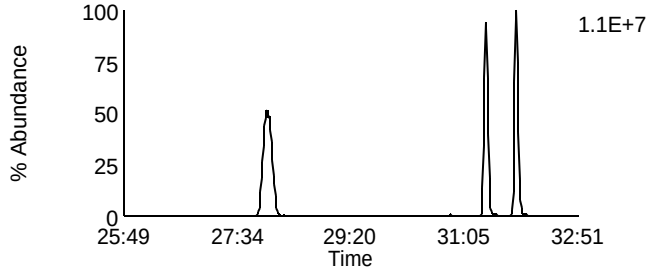
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

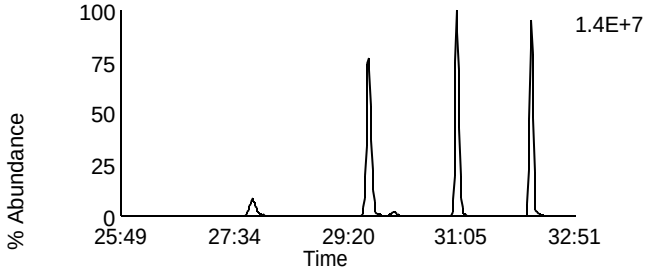
Data File: U140322B_04 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL



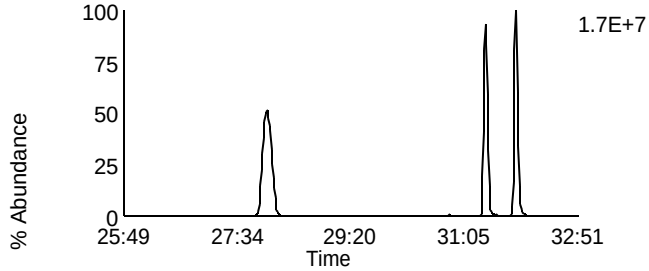
Data File: U140322B_04 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL



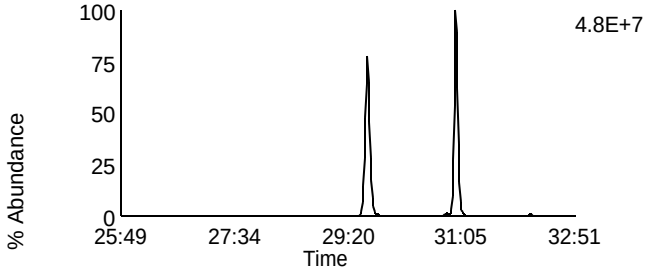
Data File: U140322B_04 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL



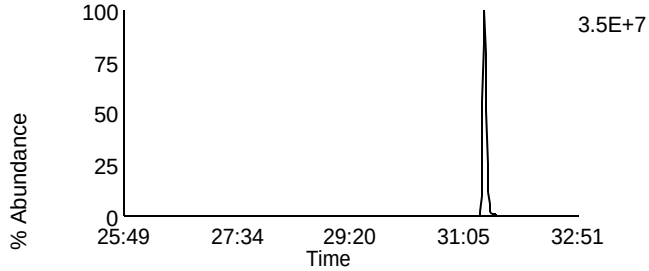
Data File: U140322B_04 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL



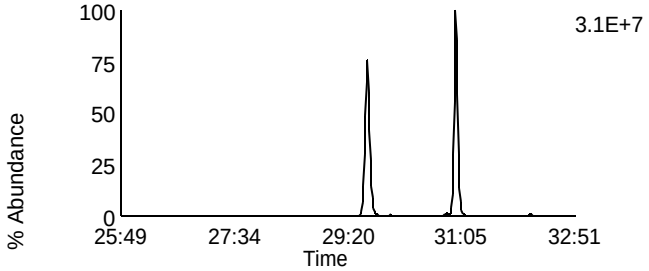
Data File: U140322B_04 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL



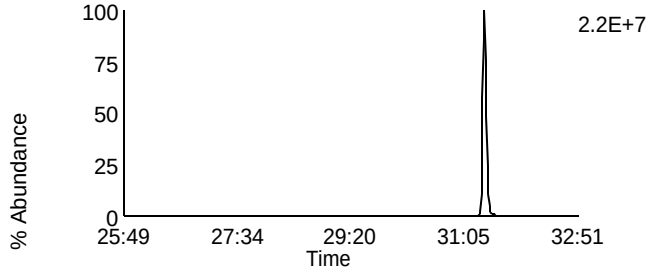
Data File: U140322B_04 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL



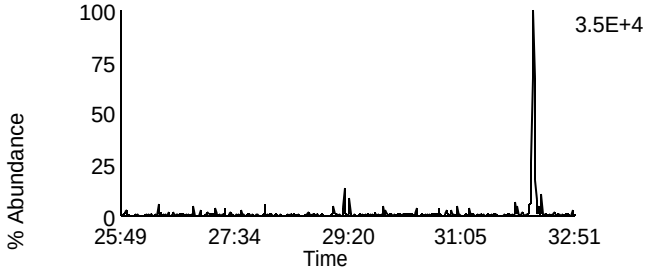
Data File: U140322B_04 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL



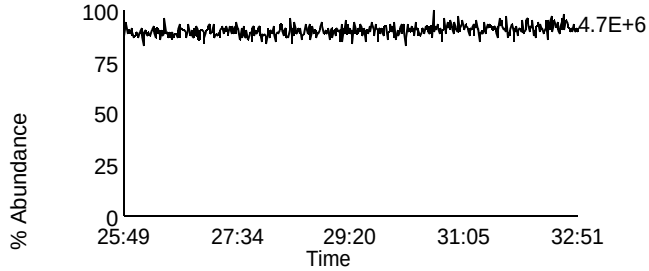
Data File: U140322B_04 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL

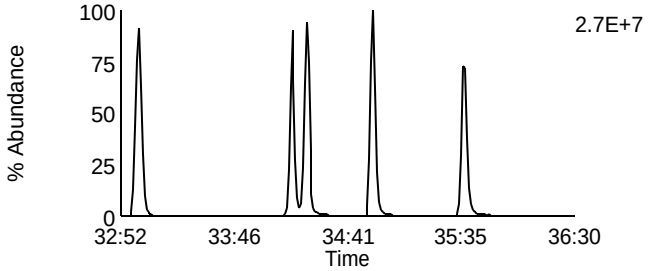


Homologue Group: Hexas

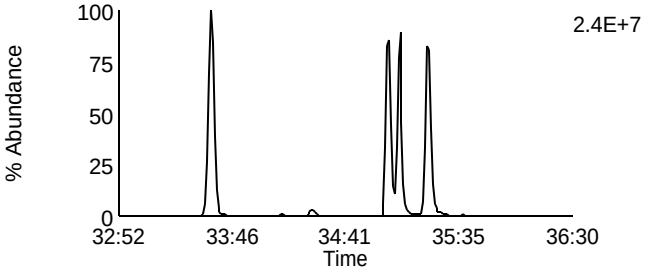
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

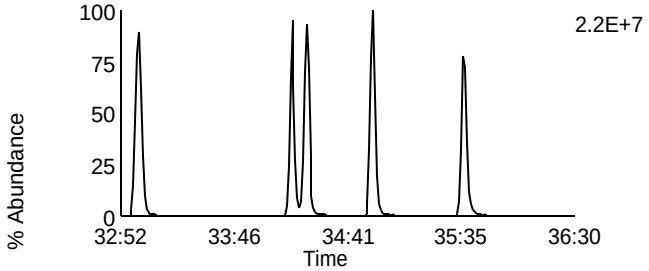
Data File: U140322B_04 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL



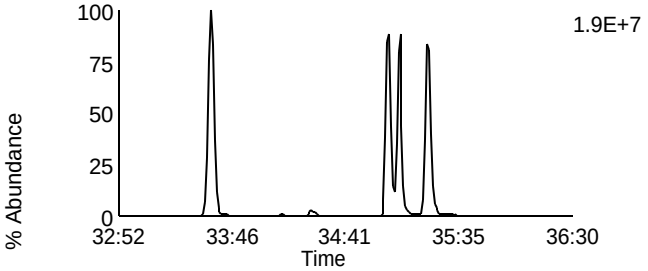
Data File: U140322B_04 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL



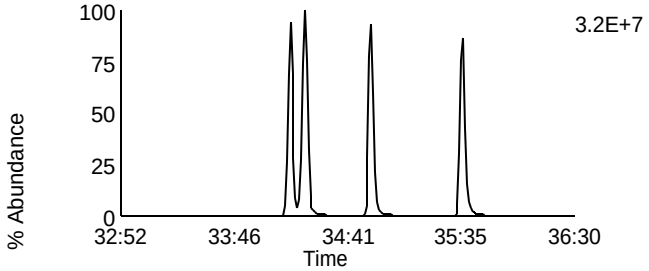
Data File: U140322B_04 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL



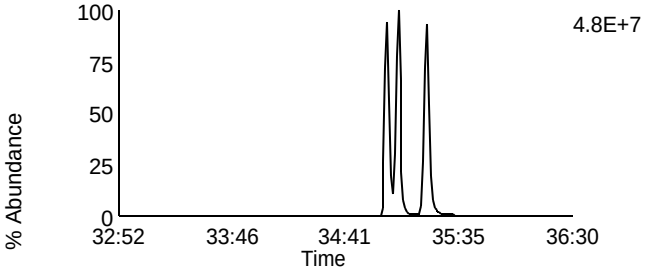
Data File: U140322B_04 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL



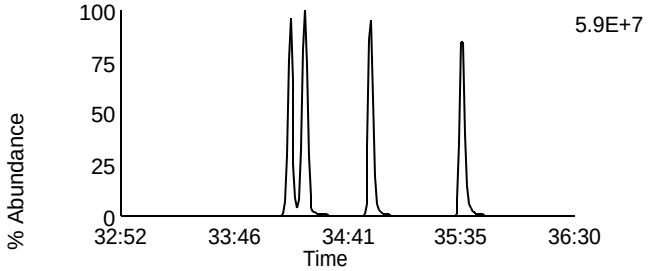
Data File: U140322B_04 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL



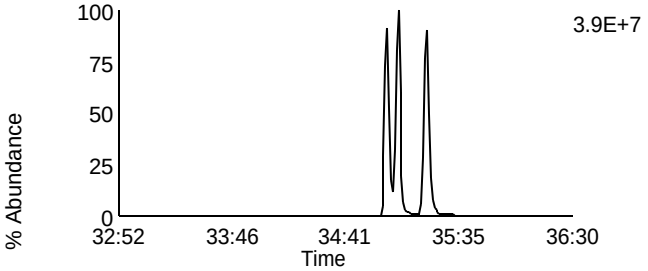
Data File: U140322B_04 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL



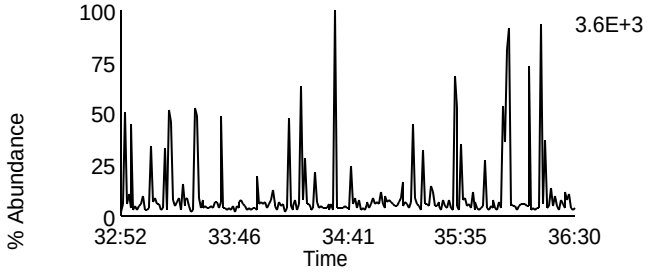
Data File: U140322B_04 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL



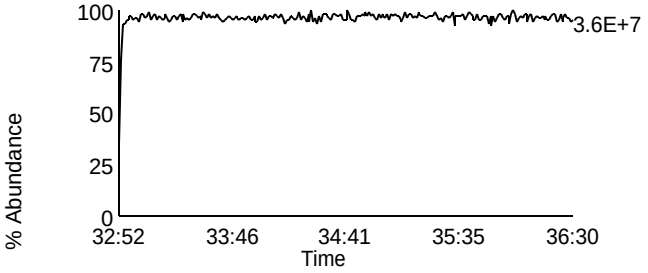
Data File: U140322B_04 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL

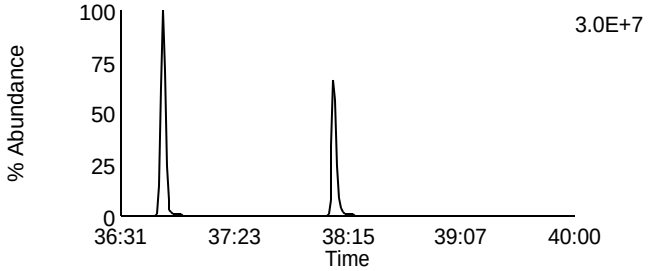


Homologue Group: Heptas

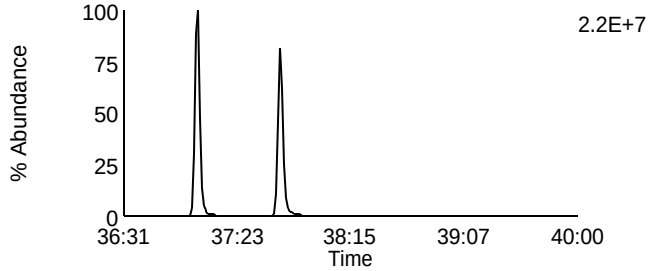
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

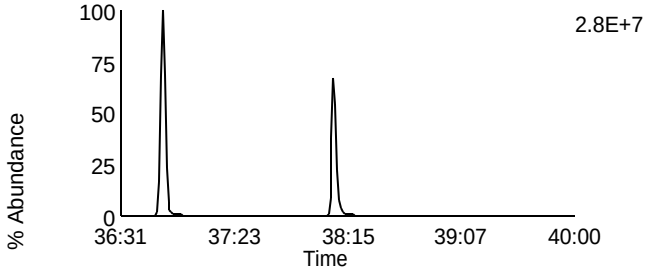
Data File: U140322B_04 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL



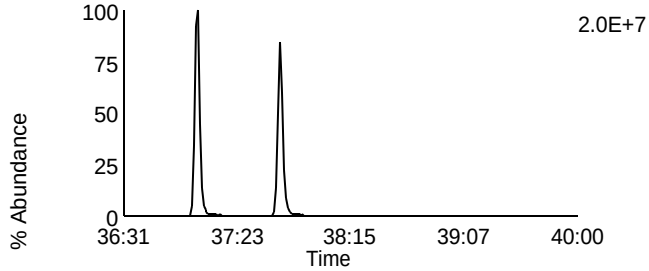
Data File: U140322B_04 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL



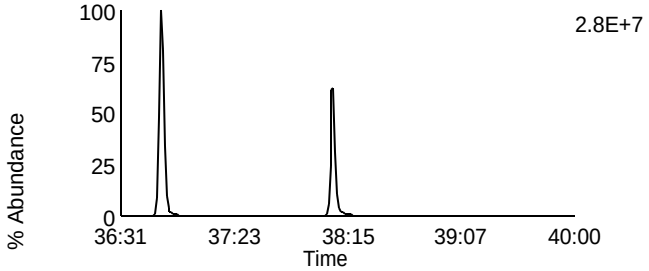
Data File: U140322B_04 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL



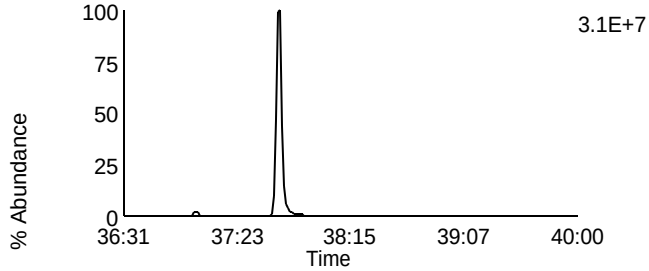
Data File: U140322B_04 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL



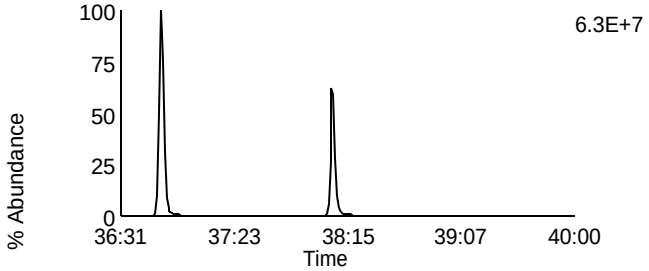
Data File: U140322B_04 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL



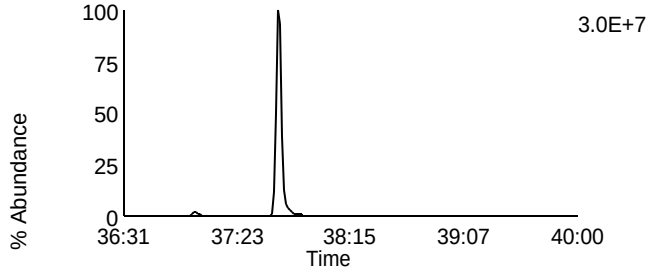
Data File: U140322B_04 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL



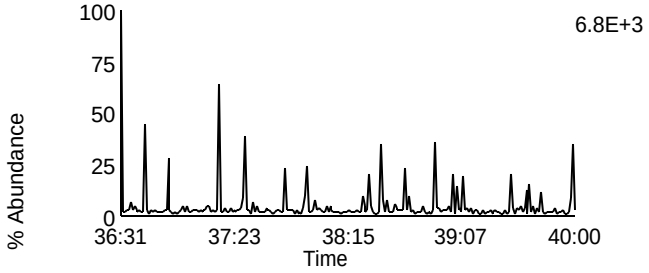
Data File: U140322B_04 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL



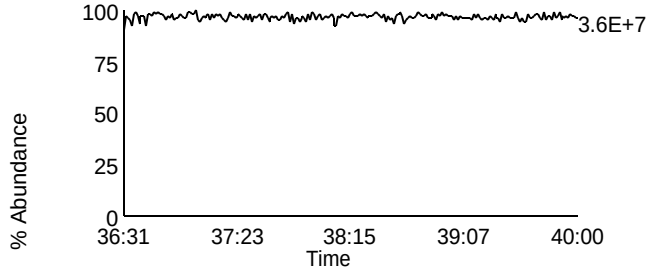
Data File: U140322B_04 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL

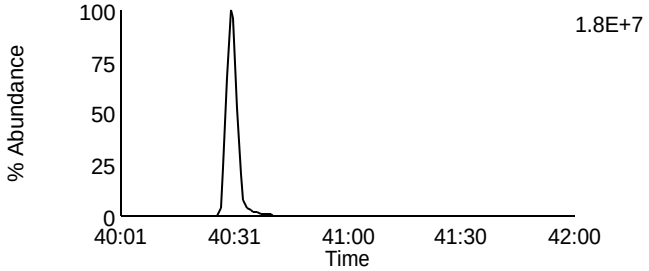


Homologue Group: Octas

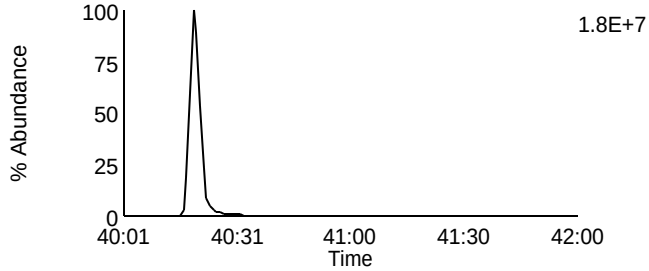
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

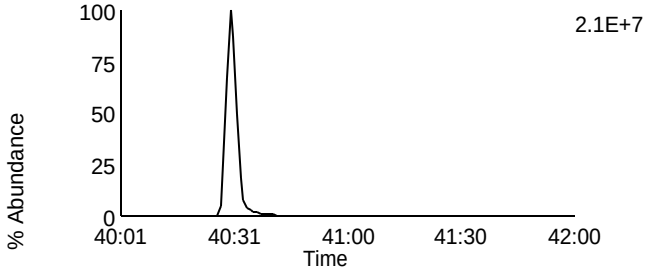
Data File: U140322B_04 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL



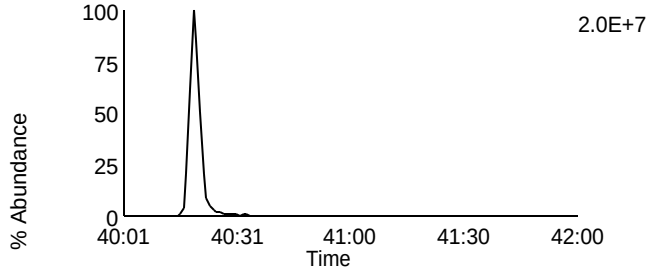
Data File: U140322B_04 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL



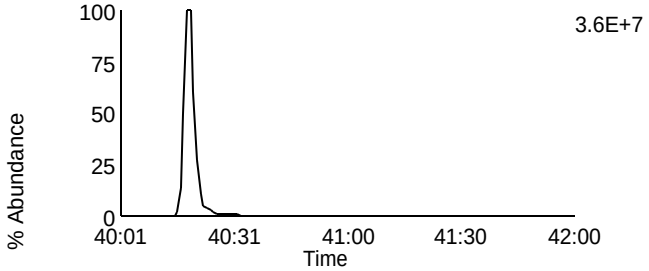
Data File: U140322B_04 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL



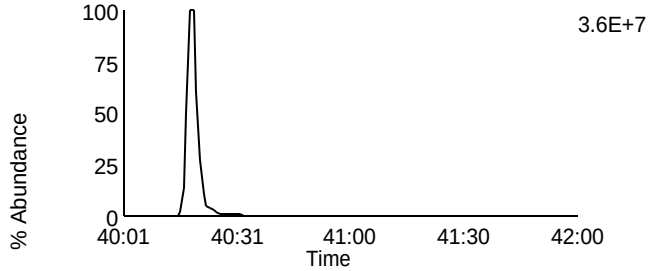
Data File: U140322B_04 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL



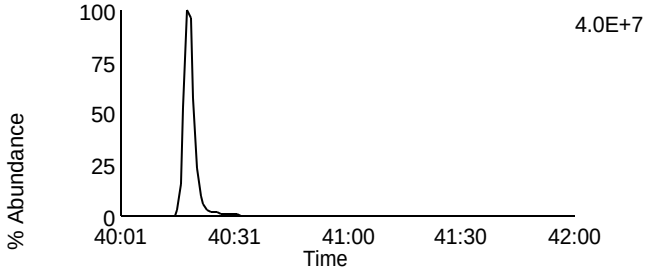
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



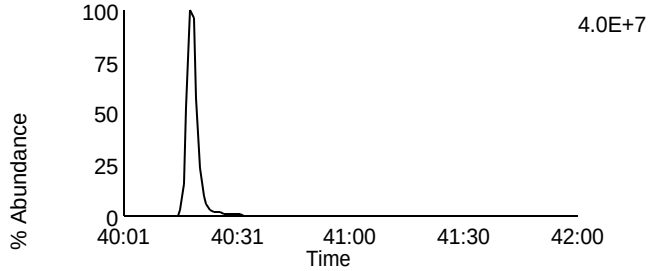
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



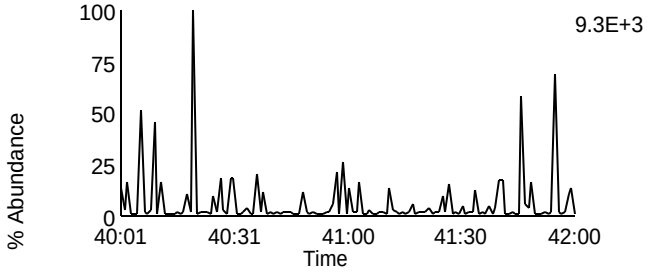
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



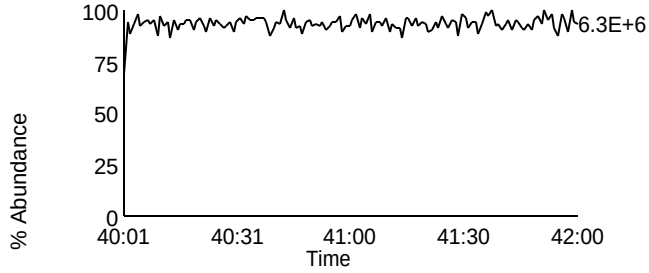
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL

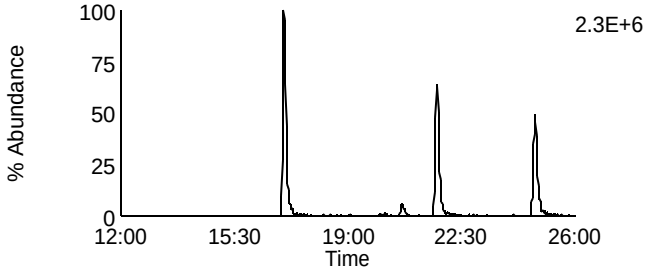


Homologue Group: Tetras

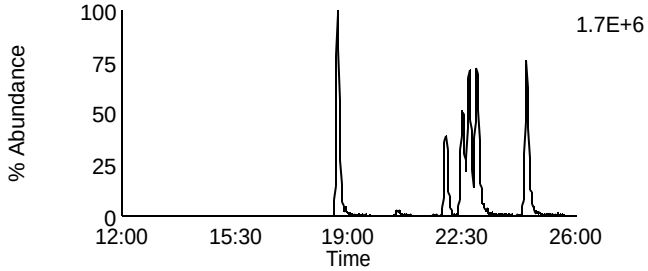
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

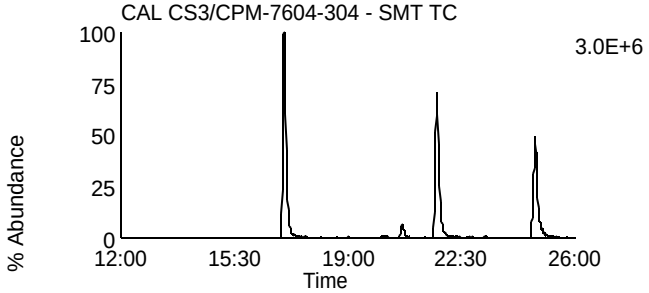
Data File: U140512A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT TC



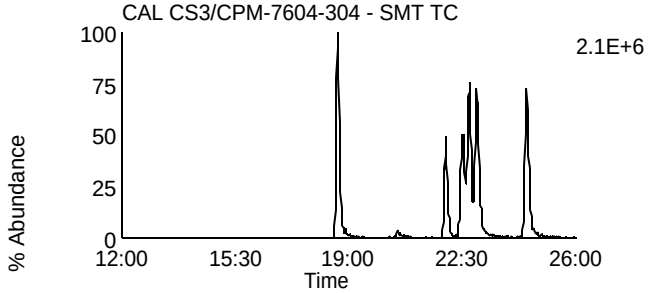
Data File: U140512A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT TC



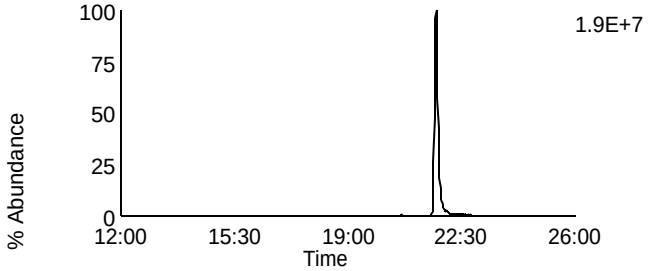
Data File: U140512A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT TC



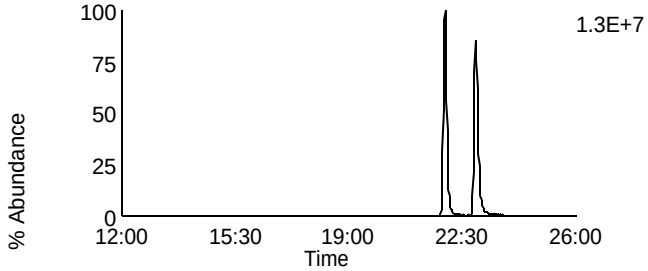
Data File: U140512A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT TC



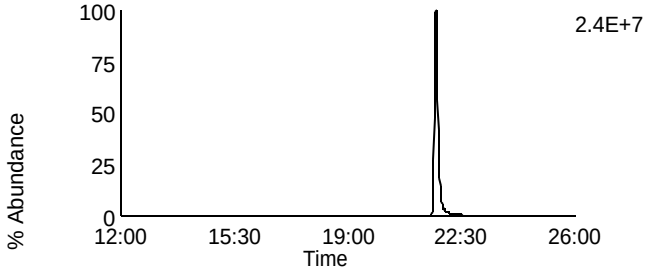
Data File: U140512A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT TC



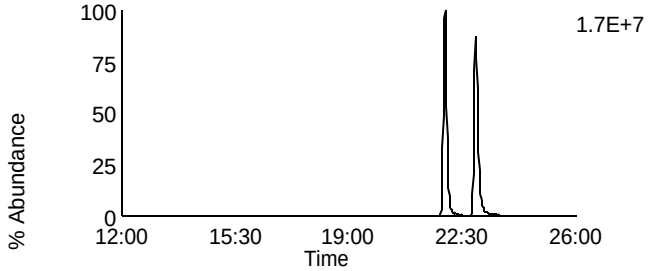
Data File: U140512A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT TC



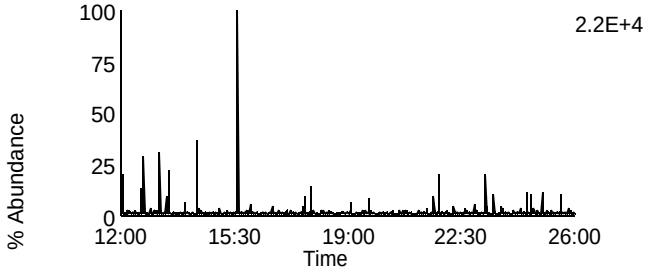
Data File: U140512A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT TC



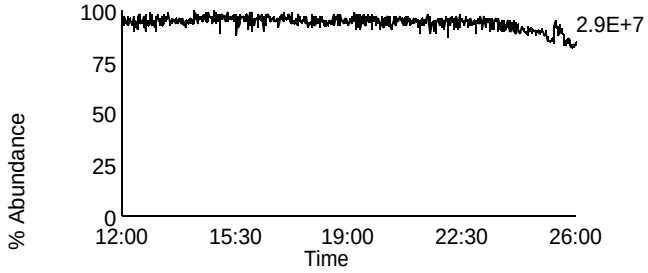
Data File: U140512A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT TC

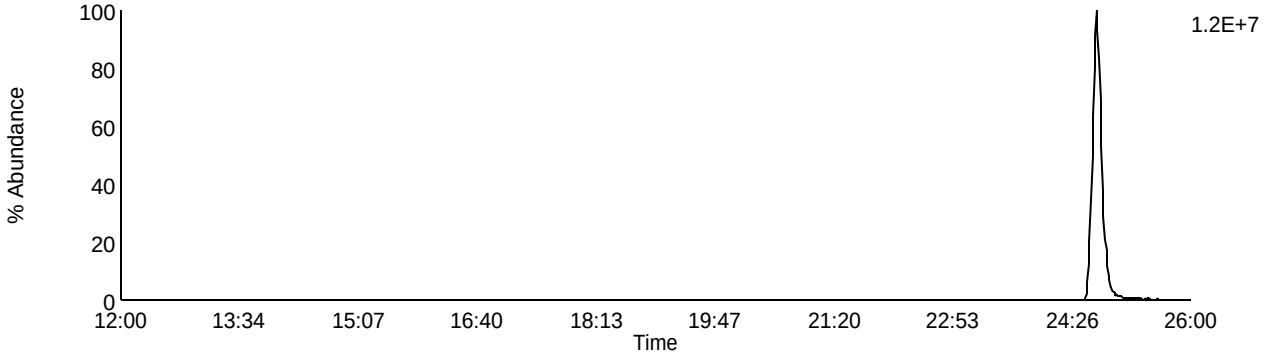


Homologue Group: Penta & Cleanup

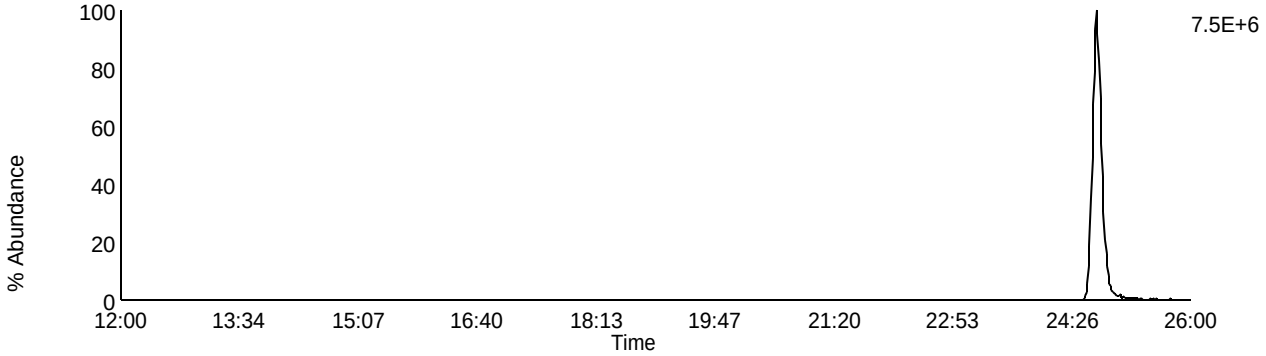
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

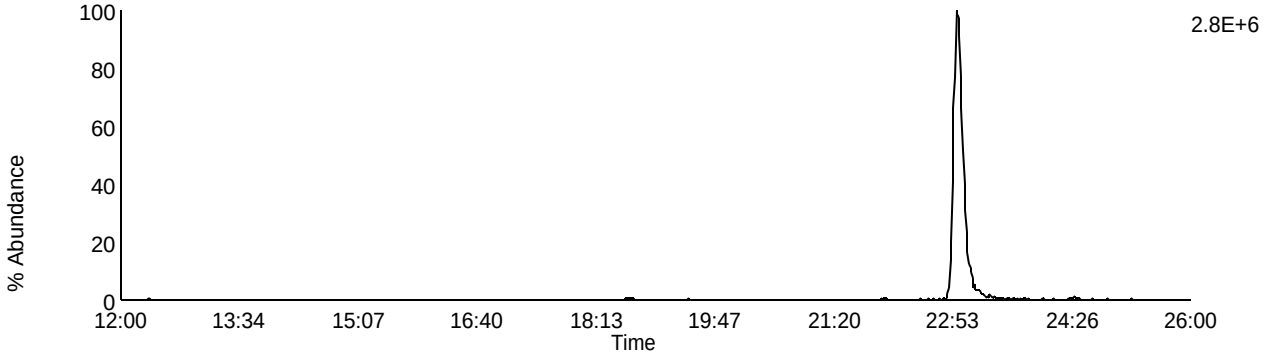
Data File: U140512A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT TC



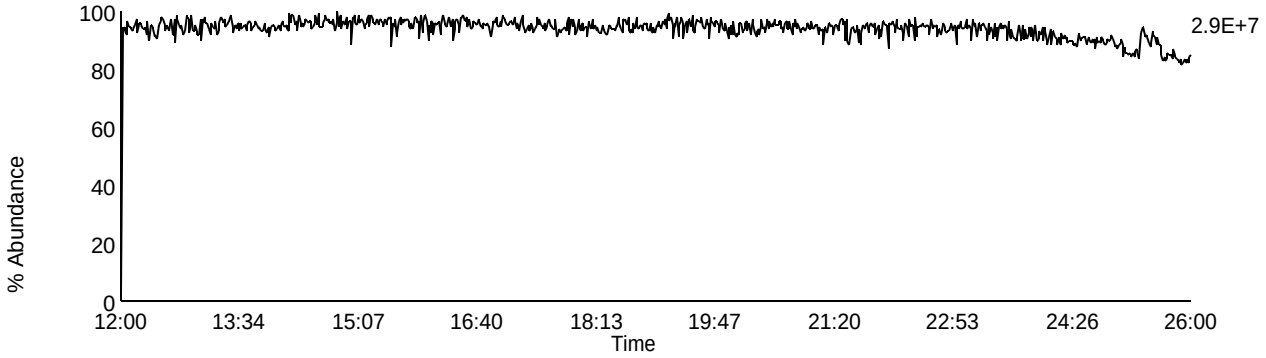
Data File: U140512A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT TC

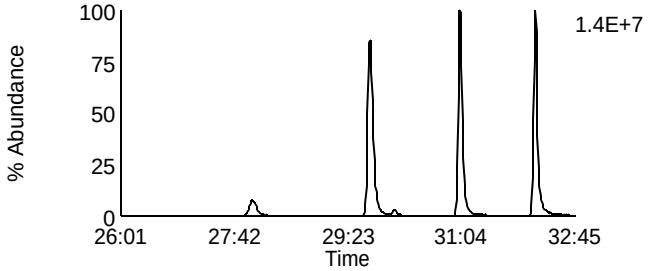


Homologue Group: Pentas

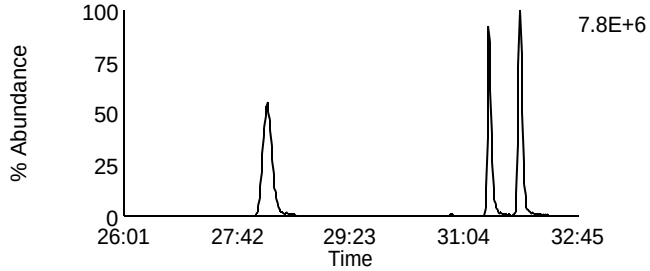
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

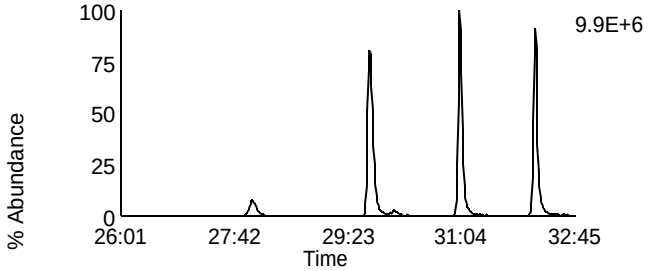
Data File: U140512A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT TC



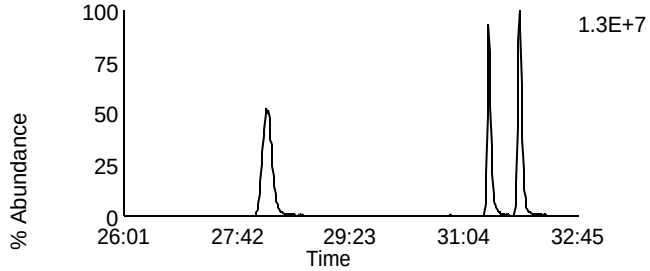
Data File: U140512A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT TC



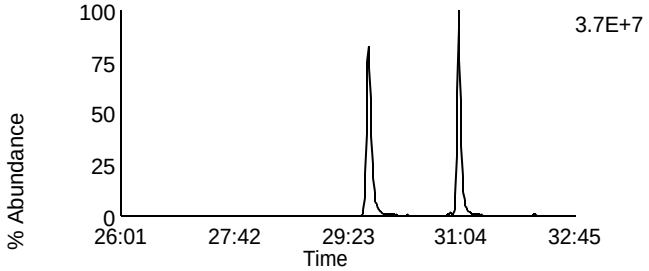
Data File: U140512A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT TC



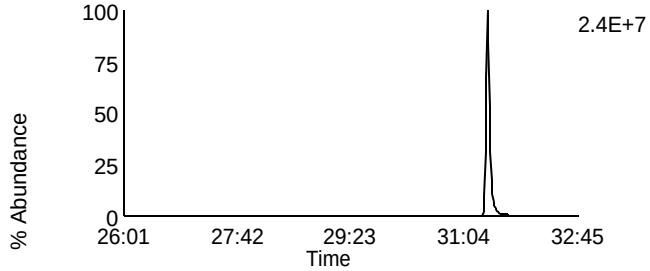
Data File: U140512A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT TC



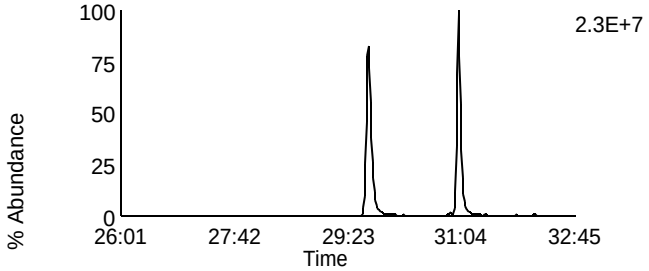
Data File: U140512A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT TC



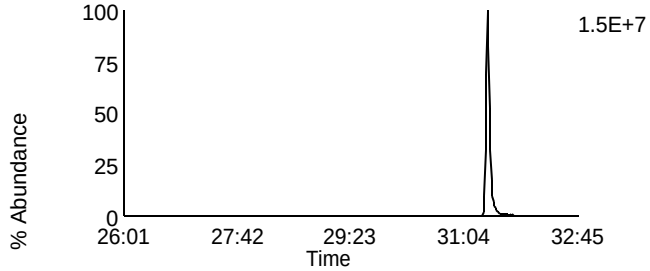
Data File: U140512A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT TC



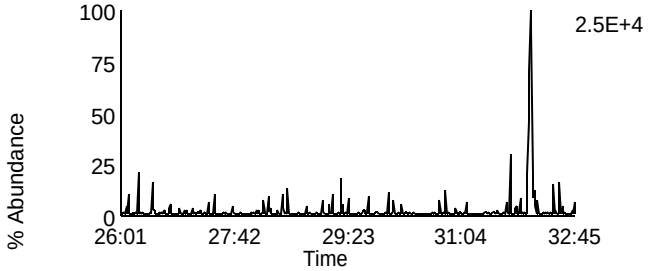
Data File: U140512A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT TC



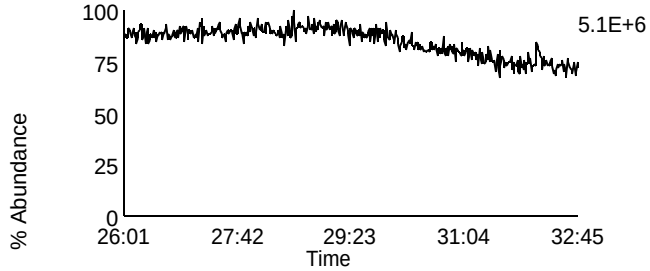
Data File: U140512A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT TC

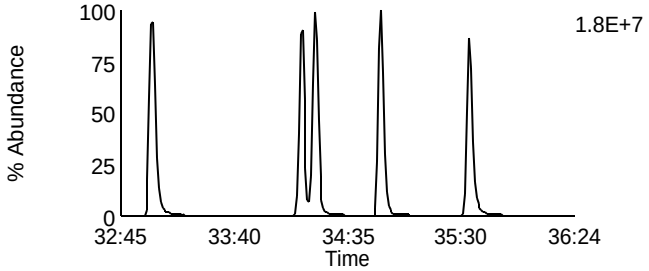


Homologue Group: Hexas

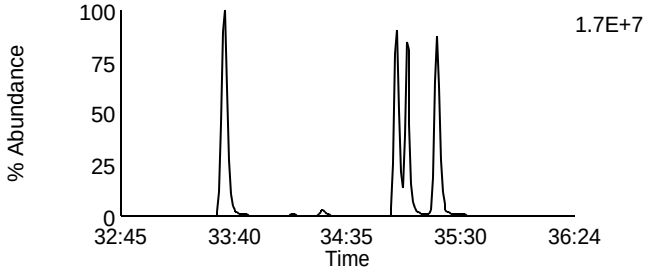
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

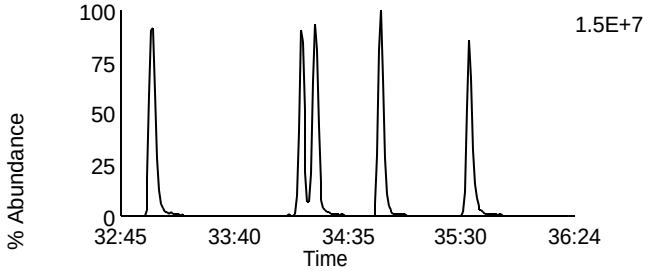
Data File: U140512A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT TC



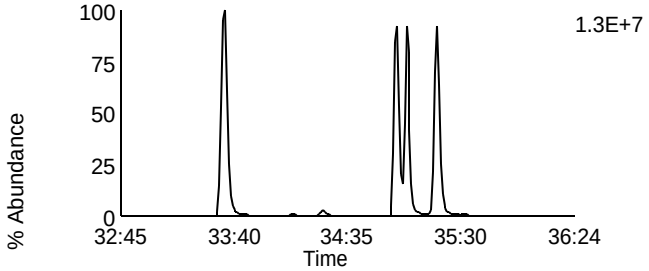
Data File: U140512A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT TC



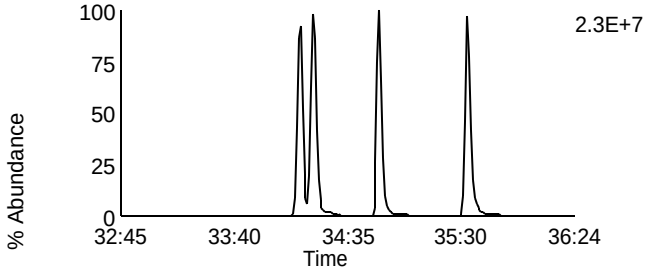
Data File: U140512A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT TC



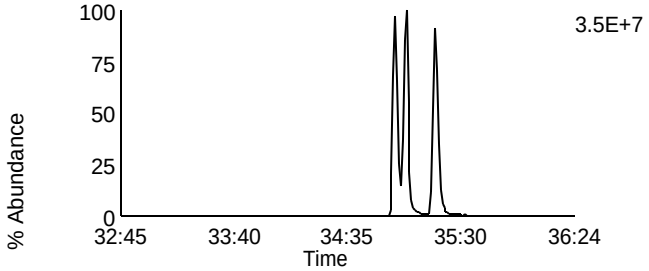
Data File: U140512A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT TC



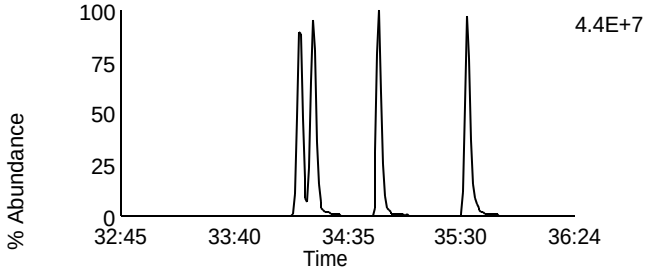
Data File: U140512A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-304 - SMT TC



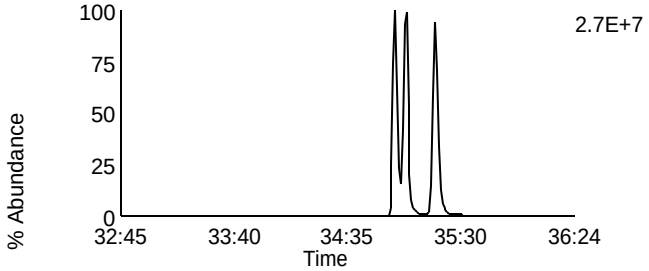
Data File: U140512A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT TC



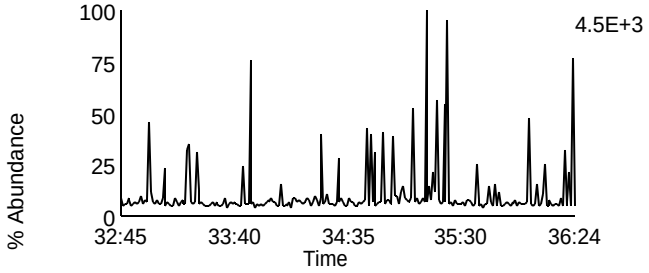
Data File: U140512A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT TC



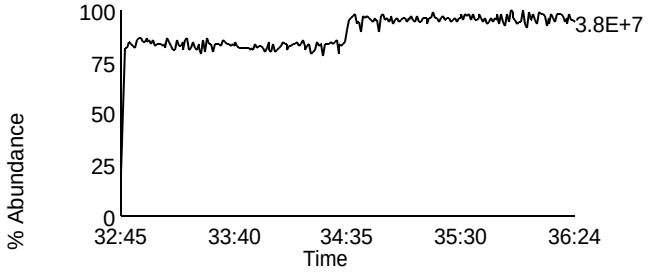
Data File: U140512A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT TC

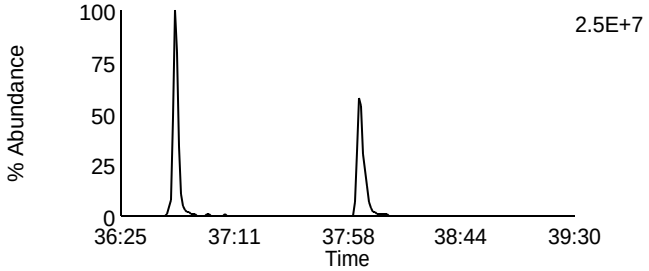


Homologue Group: Heptas

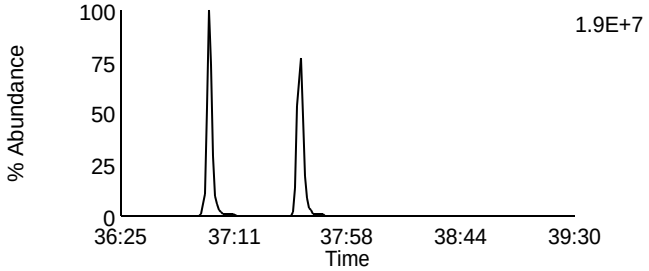
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

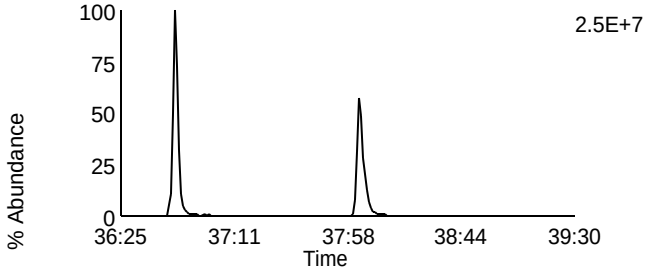
Data File: U140512A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT TC



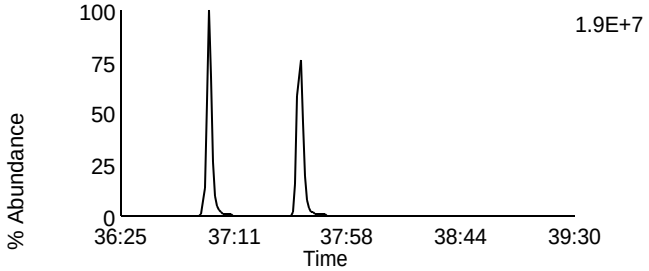
Data File: U140512A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT TC



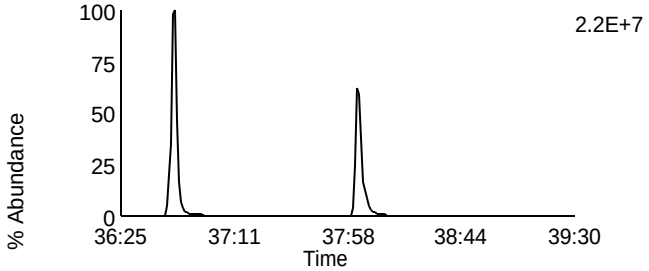
Data File: U140512A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-304 - SMT TC



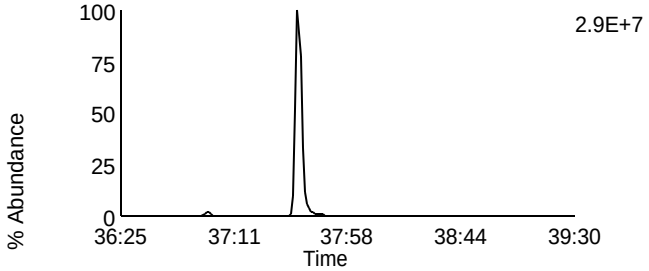
Data File: U140512A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT TC



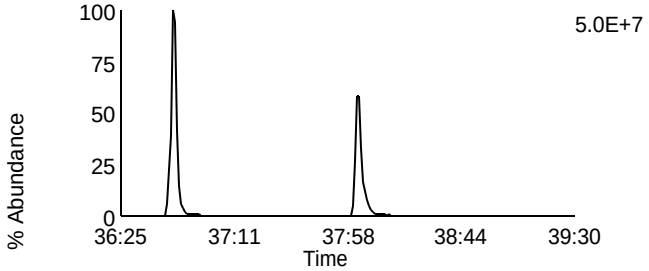
Data File: U140512A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT TC



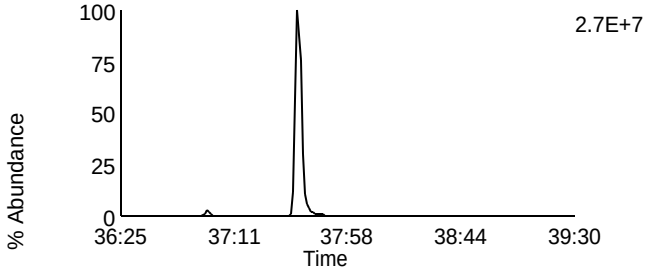
Data File: U140512A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT TC



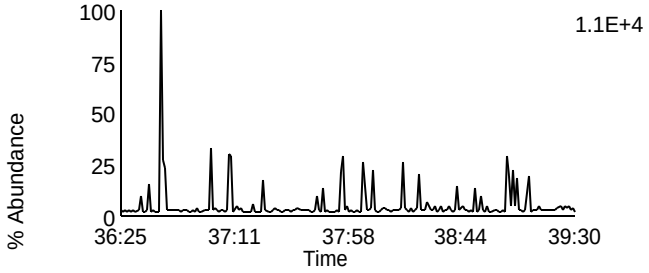
Data File: U140512A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT TC



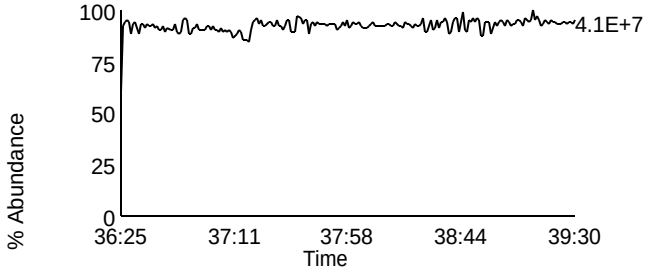
Data File: U140512A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT TC

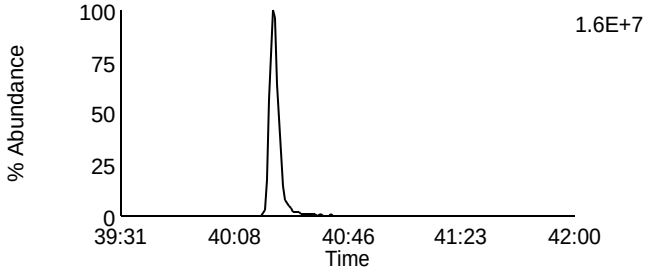


Homologue Group: Octas

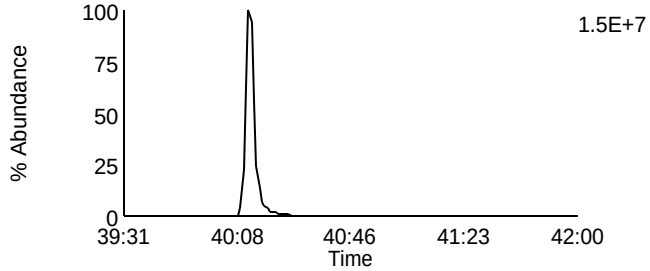
Data File Name: U140512A_01
Date Acquired: 5/12/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT TC

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

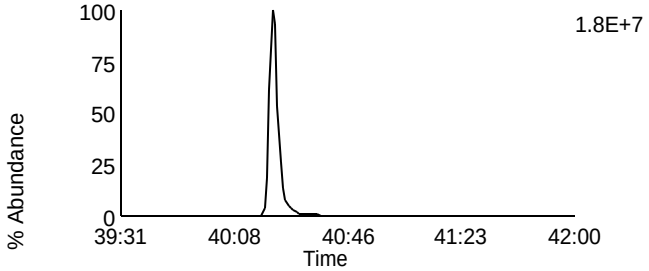
Data File: U140512A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT TC



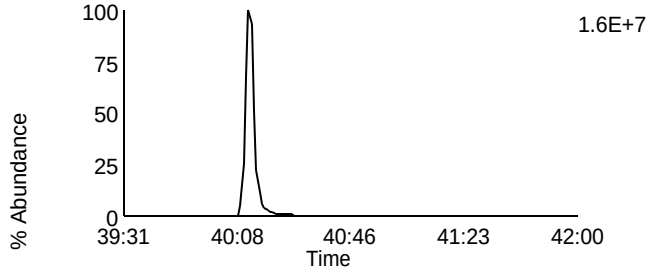
Data File: U140512A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT TC



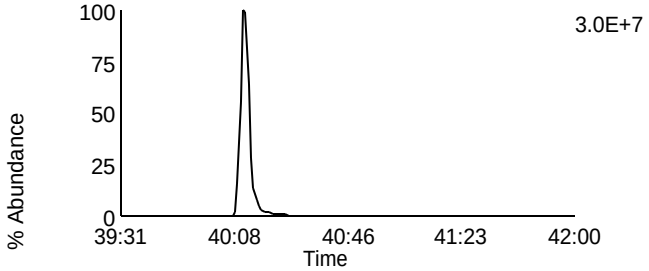
Data File: U140512A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT TC



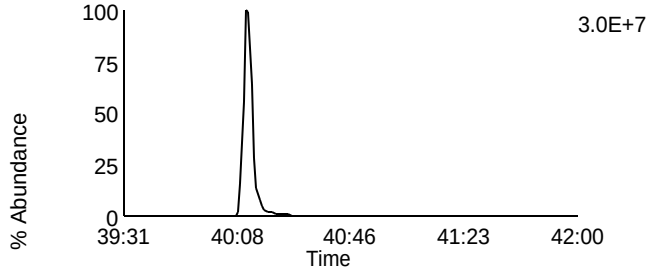
Data File: U140512A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT TC



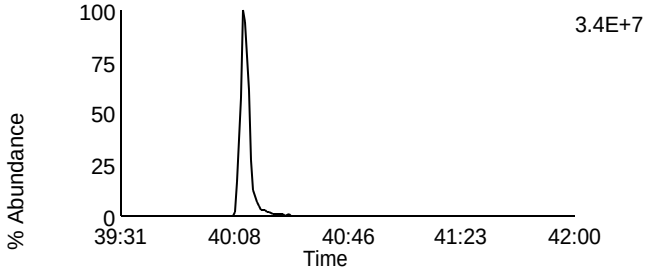
Data File: U140512A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT TC



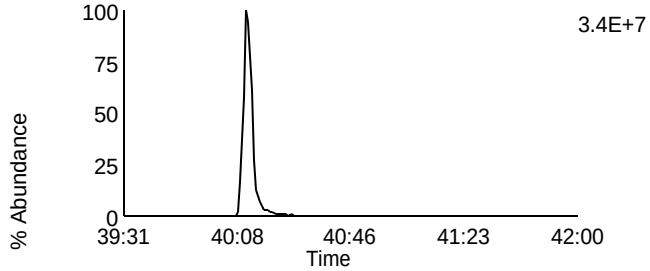
Data File: U140512A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT TC



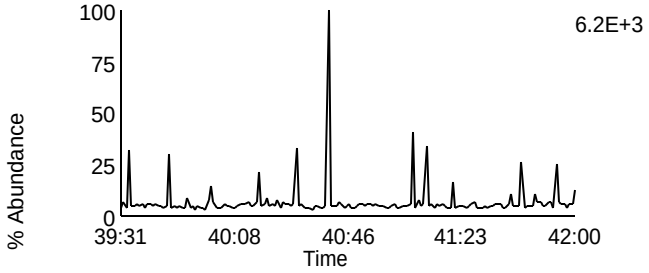
Data File: U140512A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT TC



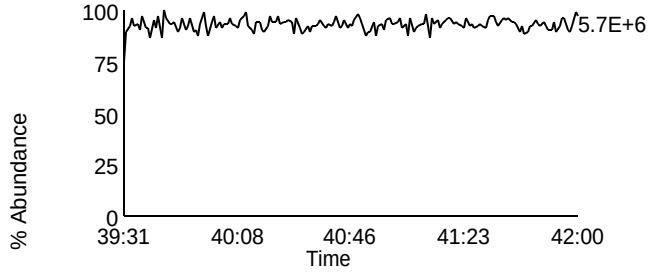
Data File: U140512A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT TC



Data File: U140512A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT TC

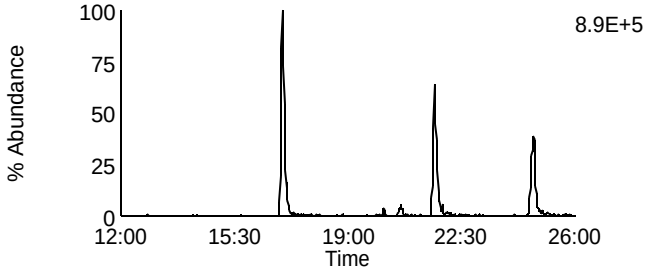


Homologue Group: Tetras

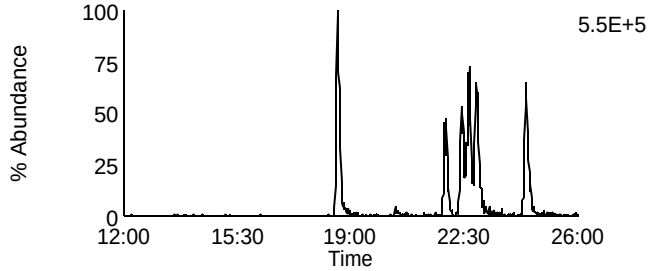
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

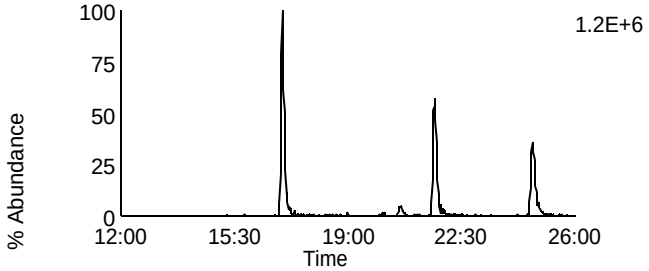
Data File: U140513A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - SMT AS Ca



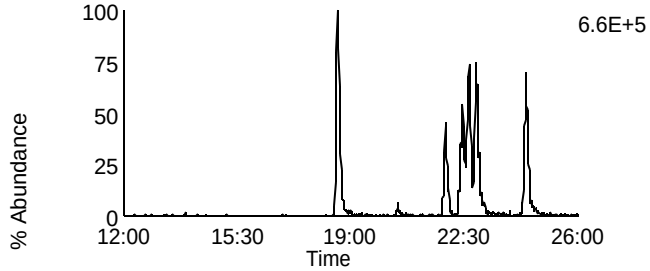
Data File: U140513A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - SMT AS Ca



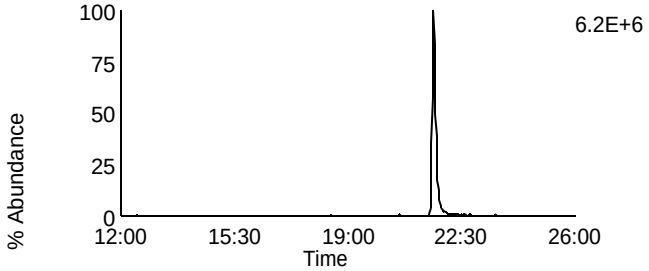
Data File: U140513A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - SMT AS Ca



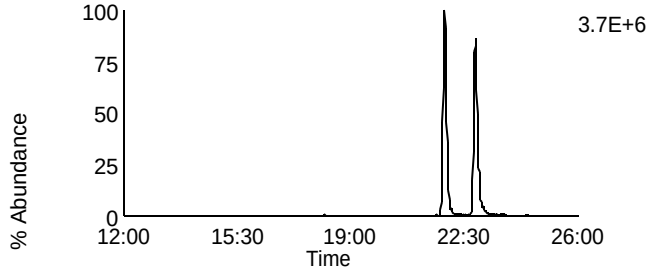
Data File: U140513A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - SMT AS Ca



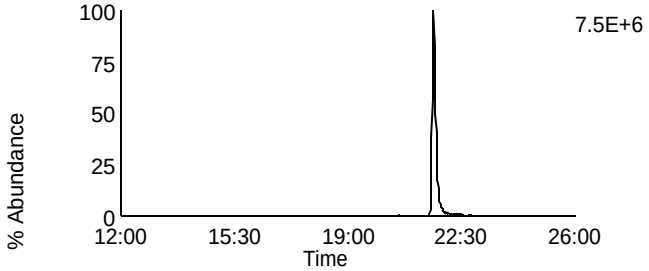
Data File: U140513A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - SMT AS Ca



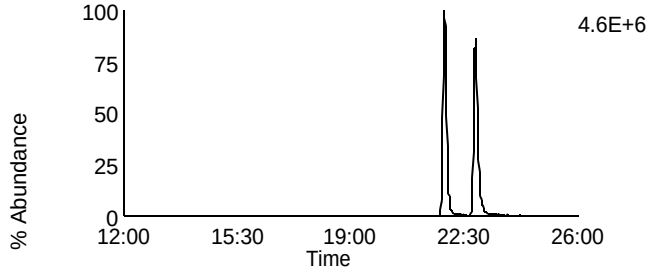
Data File: U140513A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - SMT AS Ca



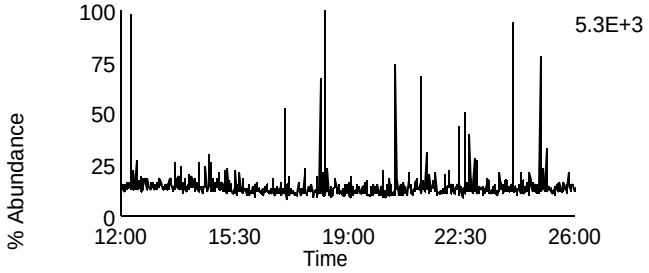
Data File: U140513A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - SMT AS Ca



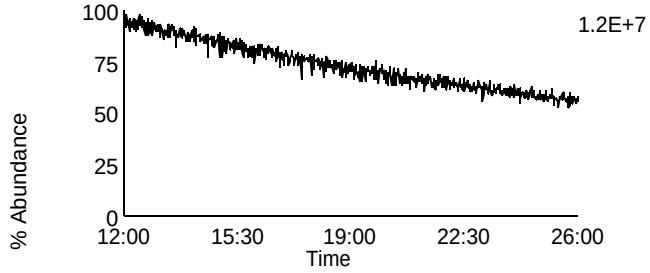
Data File: U140513A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

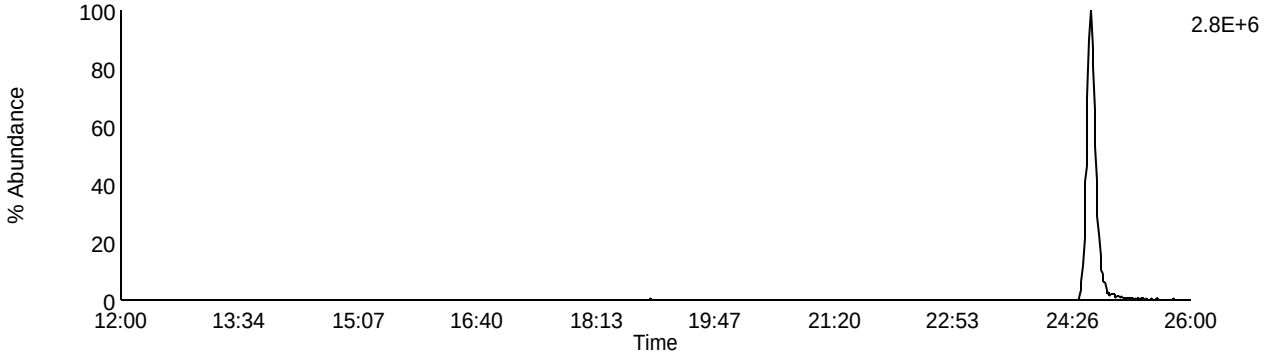


Homologue Group: Penta & Cleanup

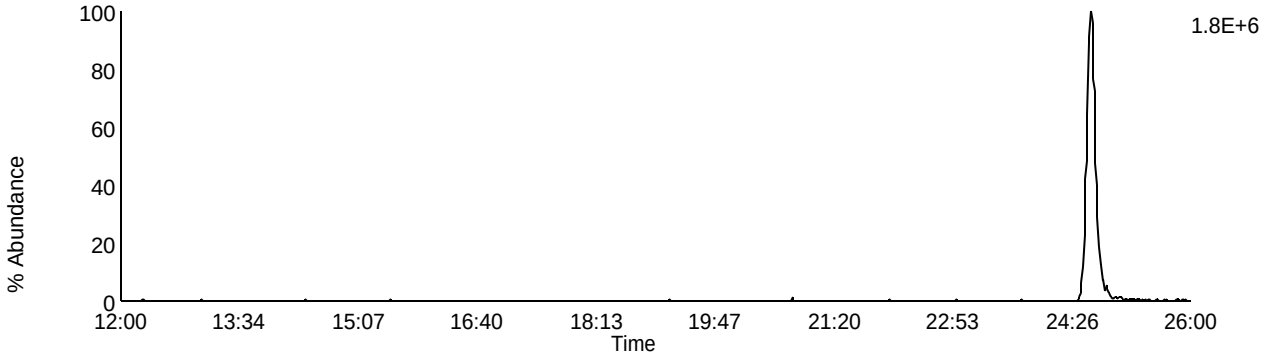
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

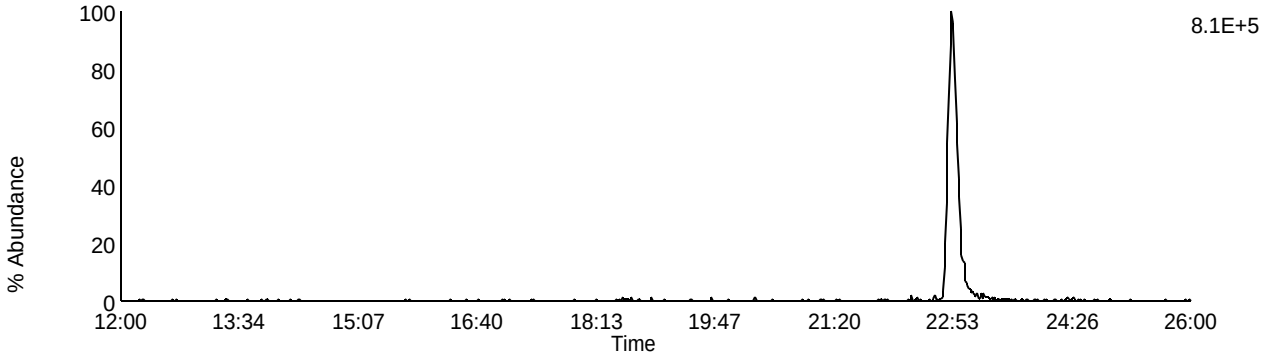
Data File: U140513A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - SMT AS Ca



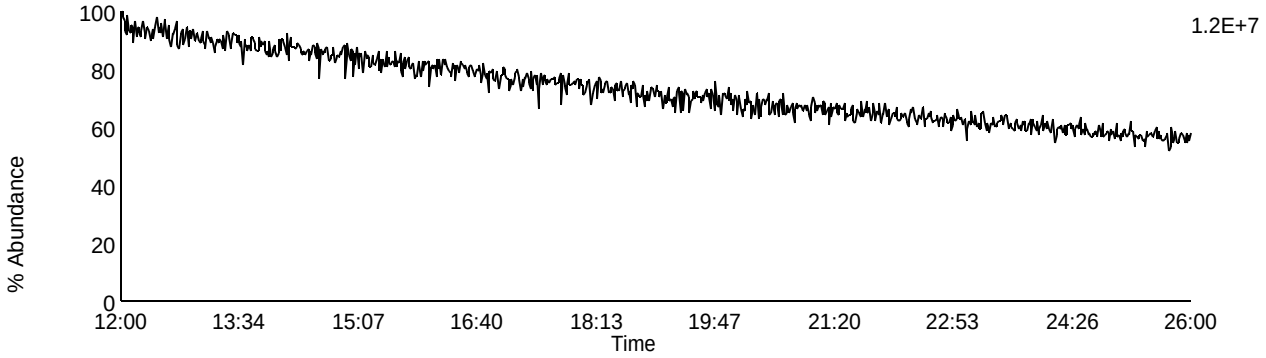
Data File: U140513A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

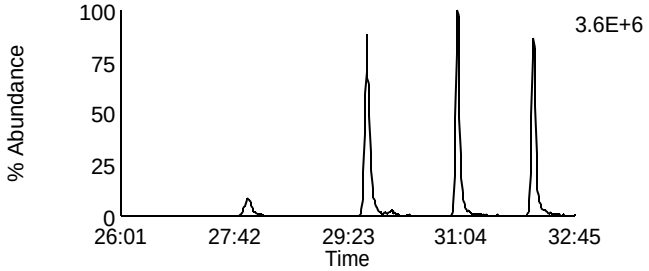


Homologue Group: Pentas

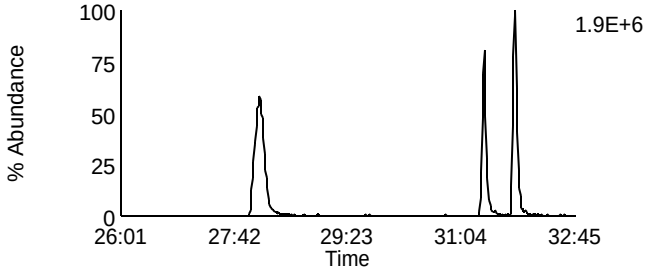
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

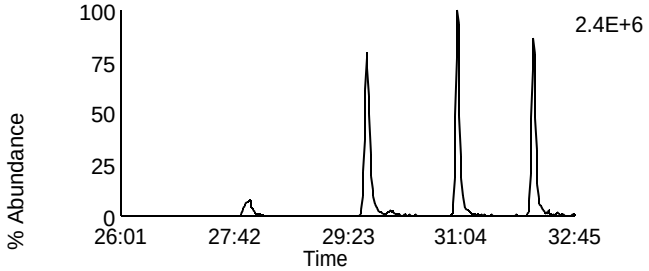
Data File: U140513A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - SMT AS Ca



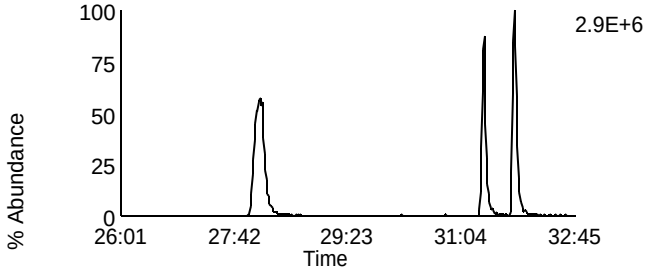
Data File: U140513A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-304 - SMT AS Ca



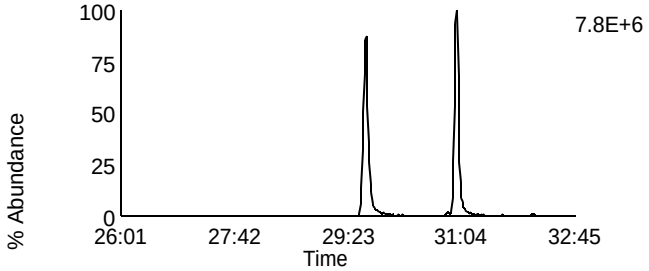
Data File: U140513A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - SMT AS Ca



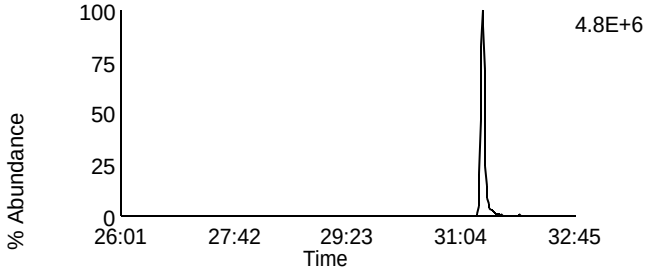
Data File: U140513A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-304 - SMT AS Ca



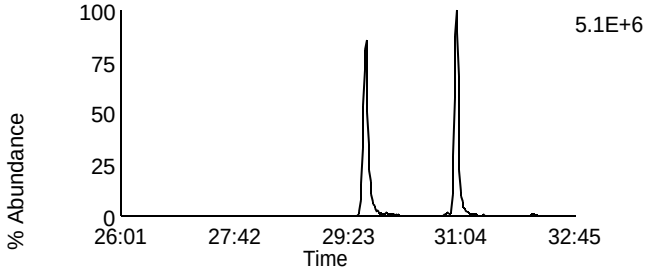
Data File: U140513A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-304 - SMT AS Ca



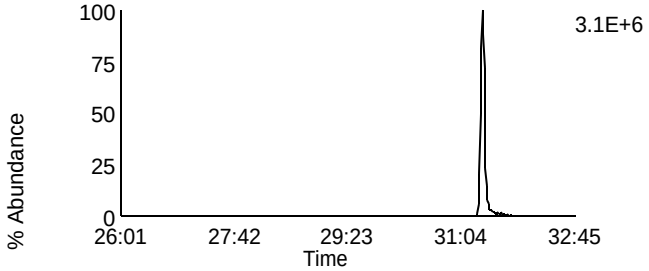
Data File: U140513A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-304 - SMT AS Ca



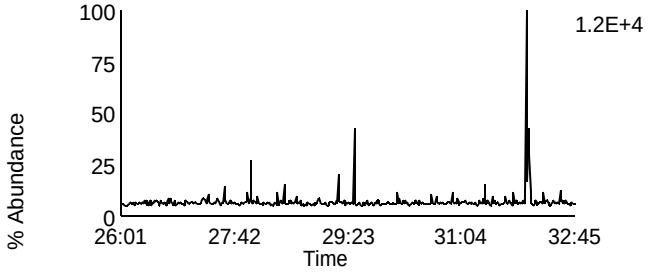
Data File: U140513A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - SMT AS Ca



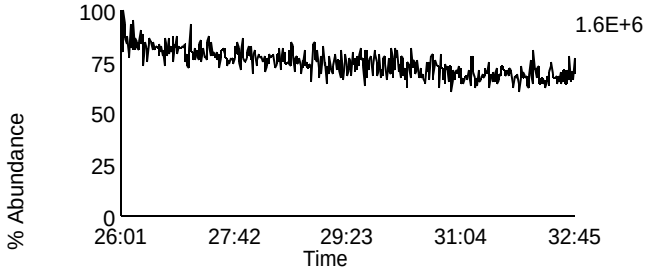
Data File: U140513A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - SMT AS Ca

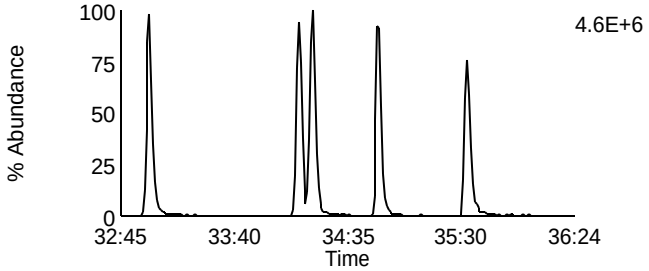


Homologue Group: Hexas

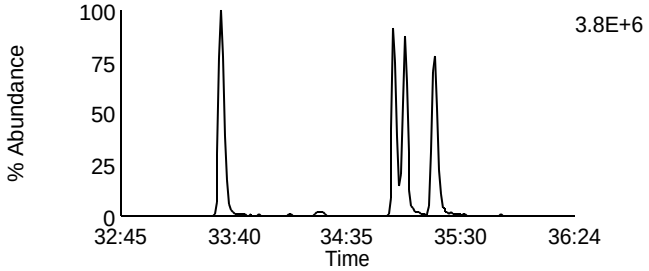
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

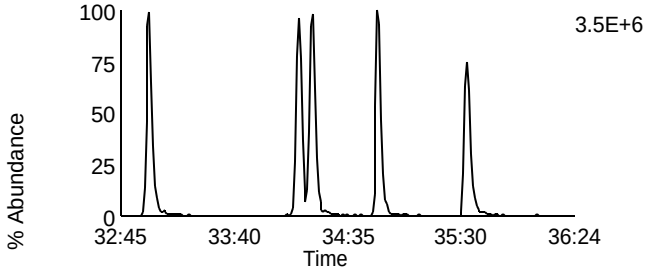
Data File: U140513A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - SMT AS Ca



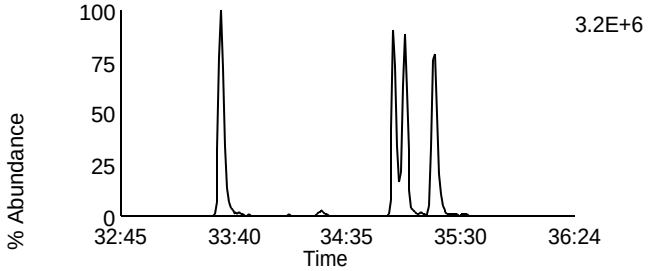
Data File: U140513A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-304 - SMT AS Ca



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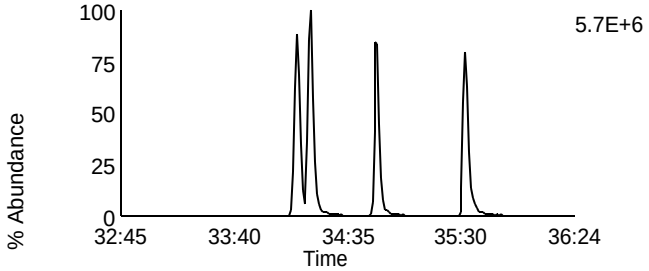
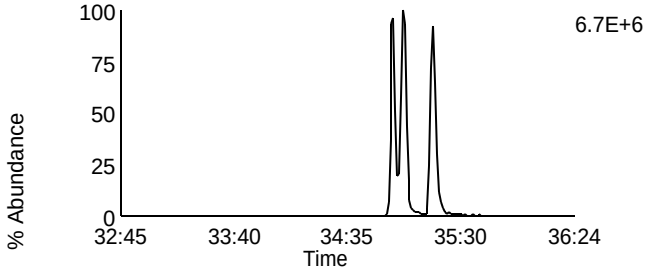
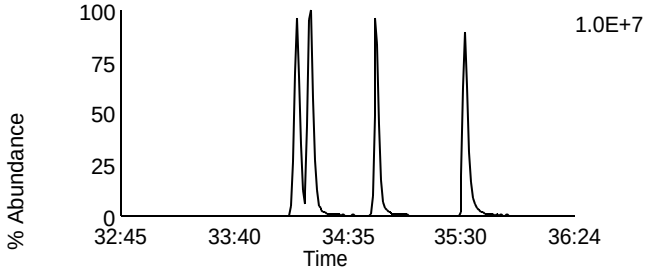
CAL CS3/CPM-7604-304 - SMT AS Ca



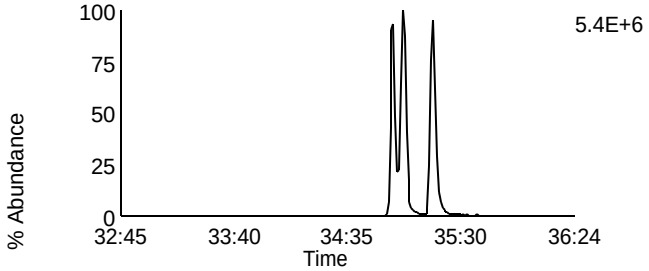
Data File: U140513A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-304 - SMT AS Ca



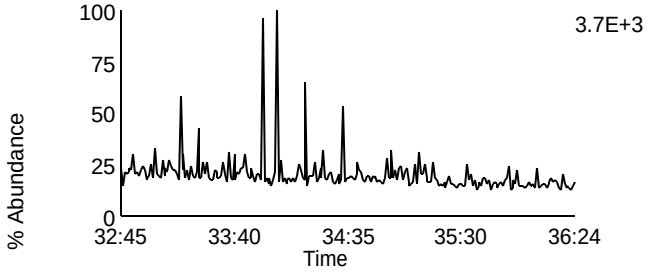
Data File: U140513A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-304 - SMT AS Ca



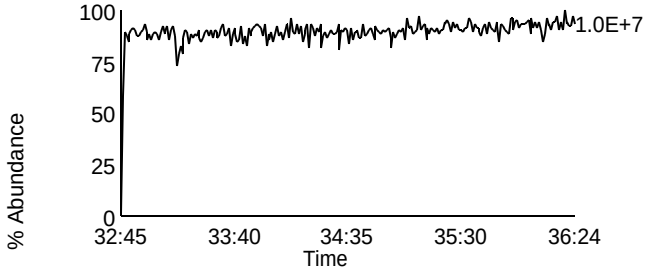
Data File: U140513A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-304 - SMT AS Ca

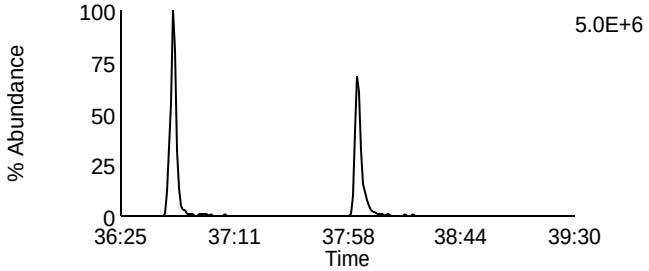


Homologue Group: Heptas

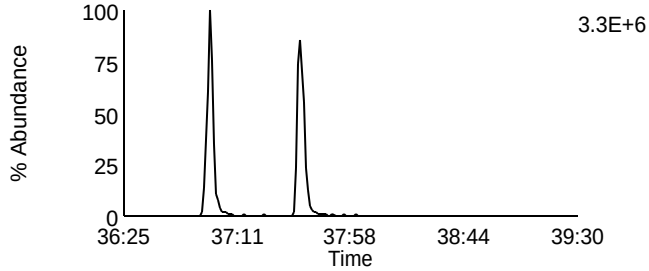
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

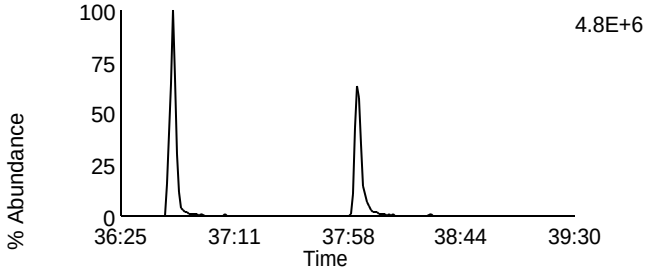
Data File: U140513A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - SMT AS Ca



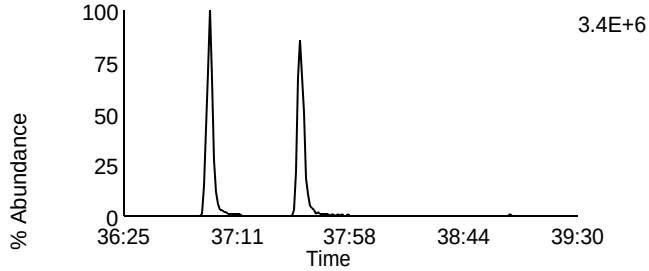
Data File: U140513A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-304 - SMT AS Ca



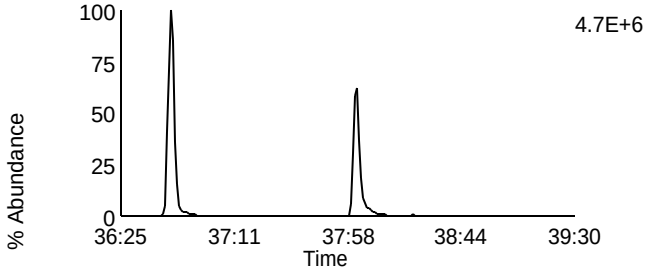
Data File: U140513A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-304 - SMT AS Ca



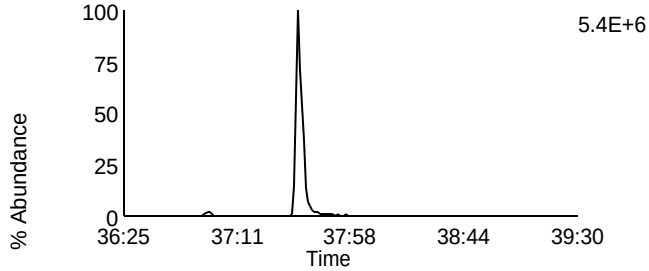
Data File: U140513A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-304 - SMT AS Ca



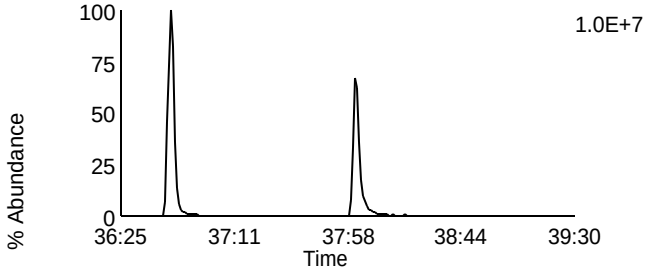
Data File: U140513A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-304 - SMT AS Ca



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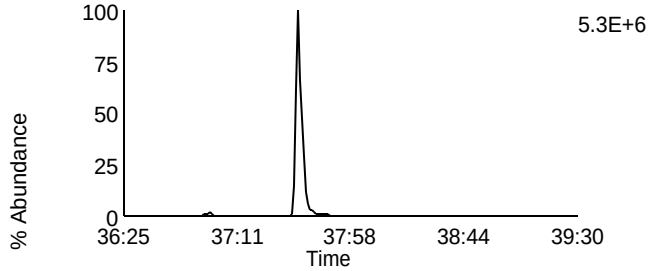
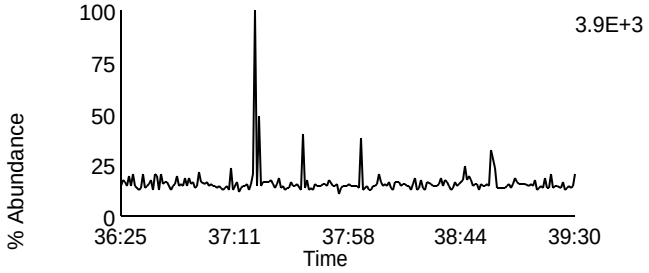
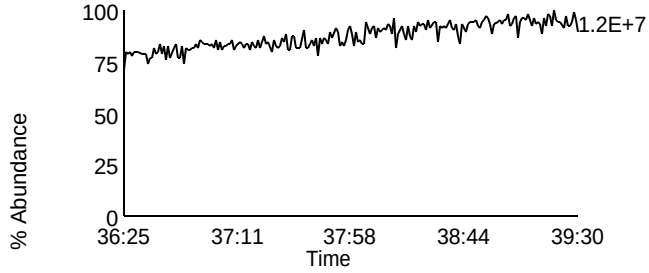
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-304 - SMT AS Ca

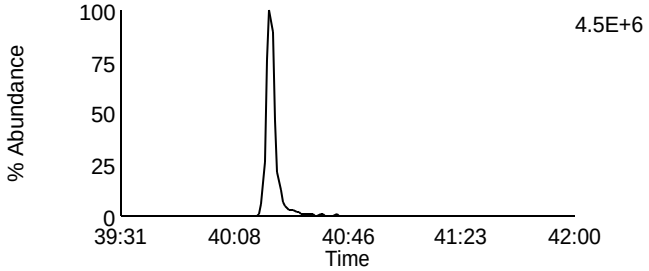


Homologue Group: Octas

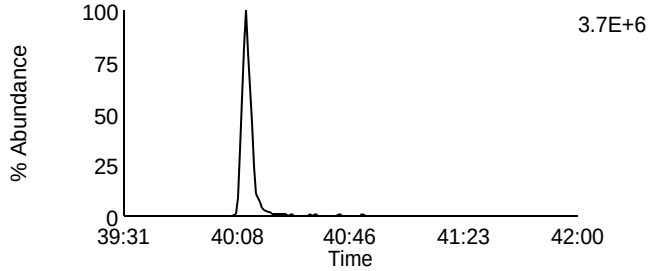
Data File Name: U140513A_01
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

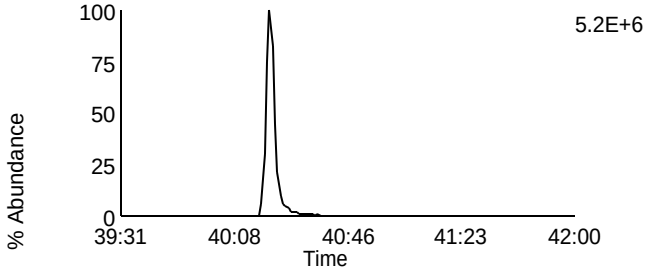
Data File: U140513A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - SMT AS Ca



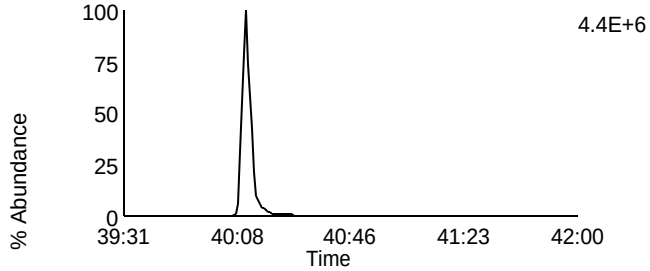
Data File: U140513A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-304 - SMT AS Ca



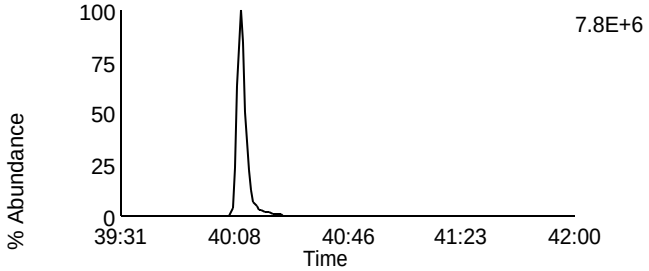
Data File: U140513A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-304 - SMT AS Ca



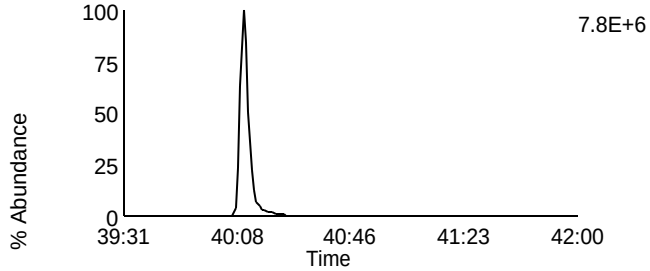
Data File: U140513A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-304 - SMT AS Ca



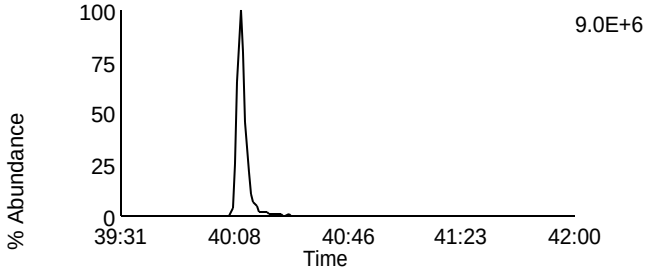
Data File: U140513A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT AS Ca



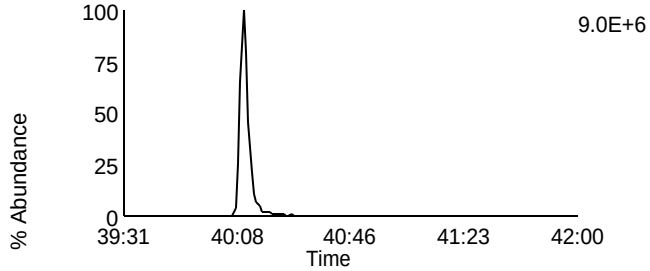
Data File: U140513A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - SMT AS Ca



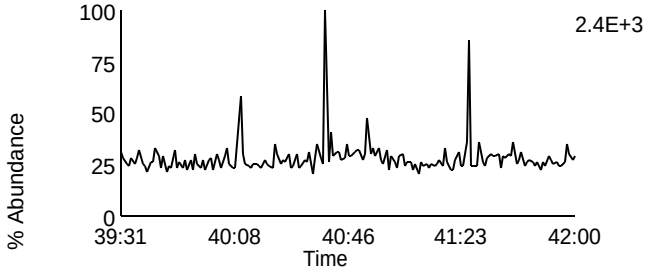
Data File: U140513A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT AS Ca



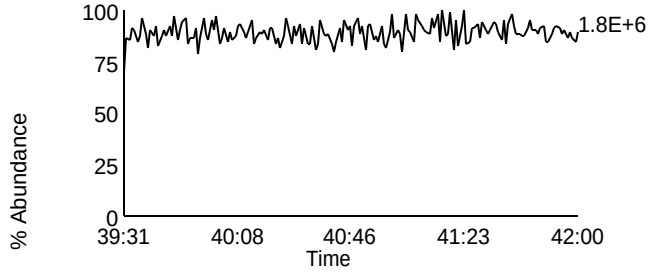
Data File: U140513A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-304 - SMT AS Ca



Data File: U140513A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-304 - SMT AS Ca

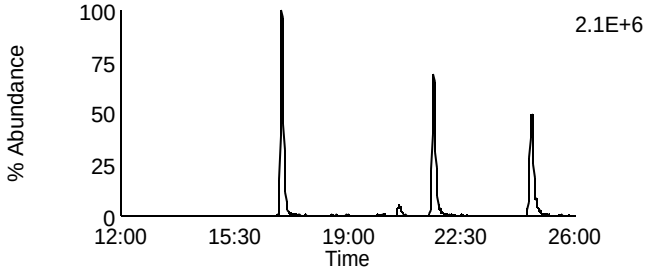


Homologue Group: Tetras

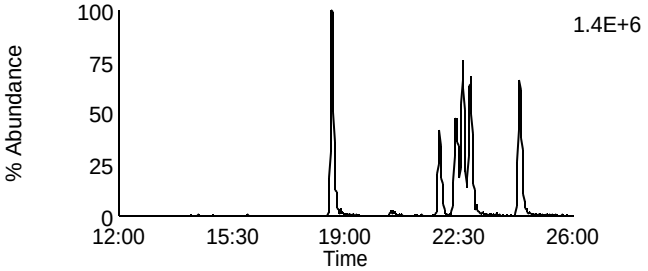
Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

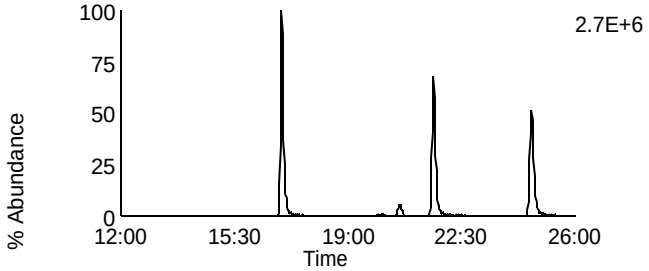
Data File: U140513A_17 G1 C1 - 303.9016
CAL CS3/CPM-7604-304 - CVS



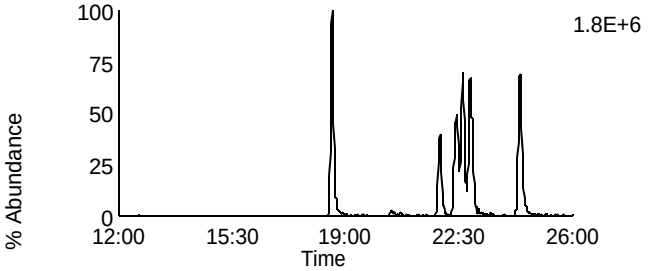
Data File: U140513A_17 G1 C7 - 319.8965
CAL CS3/CPM-7604-304 - CVS



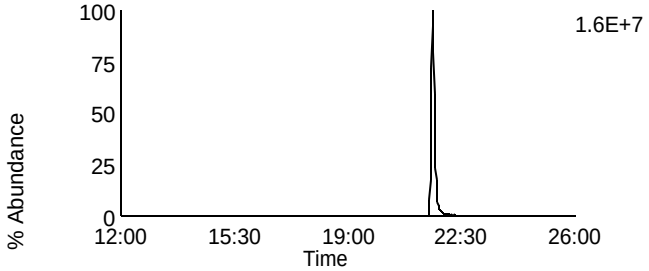
Data File: U140513A_17 G1 C2 - 305.8987
CAL CS3/CPM-7604-304 - CVS



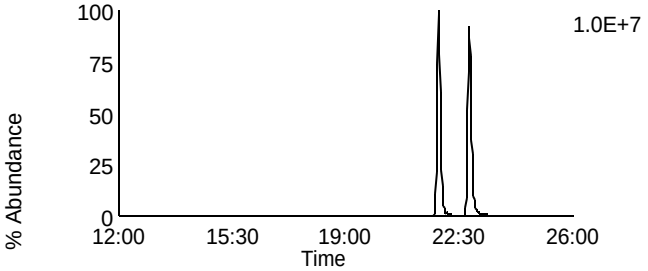
Data File: U140513A_17 G1 C8 - 321.8936
CAL CS3/CPM-7604-304 - CVS



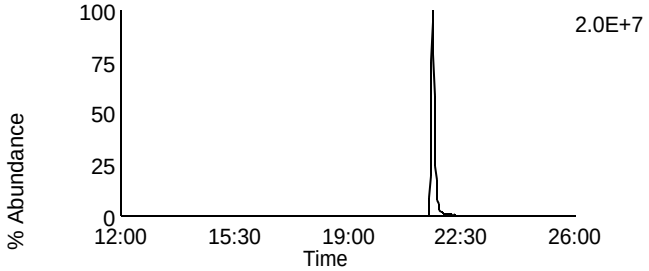
Data File: U140513A_17 G1 C3 - 315.9418
CAL CS3/CPM-7604-304 - CVS



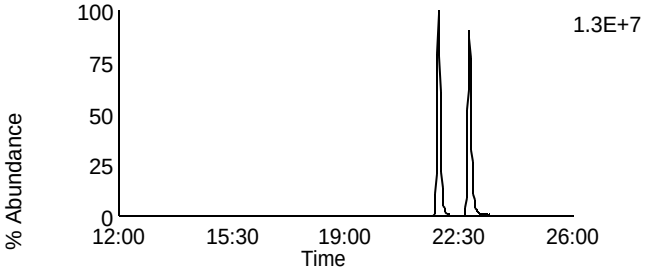
Data File: U140513A_17 G1 C10 - 331.9367
CAL CS3/CPM-7604-304 - CVS



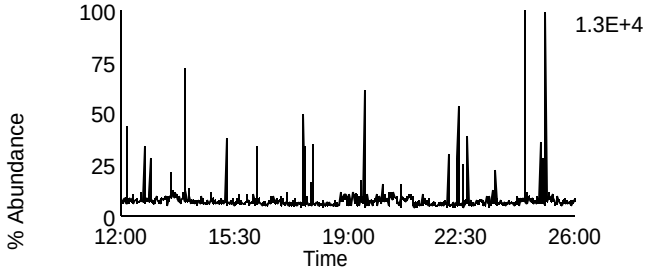
Data File: U140513A_17 G1 C4 - 317.9389
CAL CS3/CPM-7604-304 - CVS



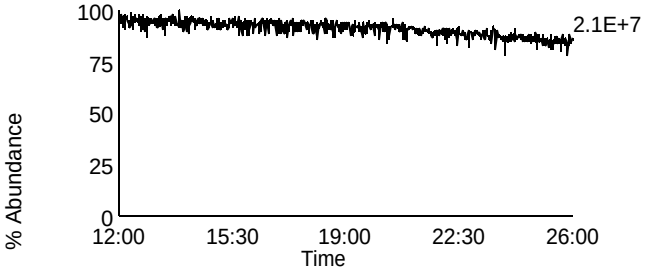
Data File: U140513A_17 G1 C11 - 333.9338
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C14 - 375.8364
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C5 - 318.9792
CAL CS3/CPM-7604-304 - CVS

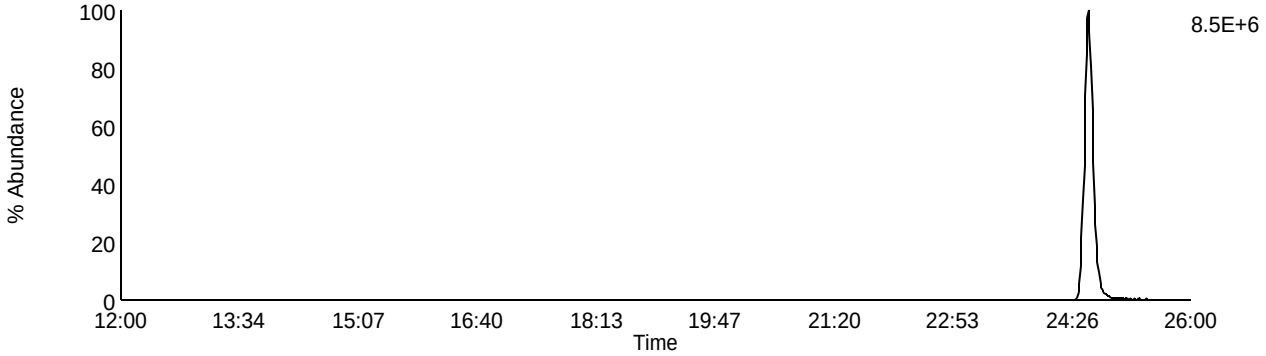


Homologue Group: Penta & Cleanup

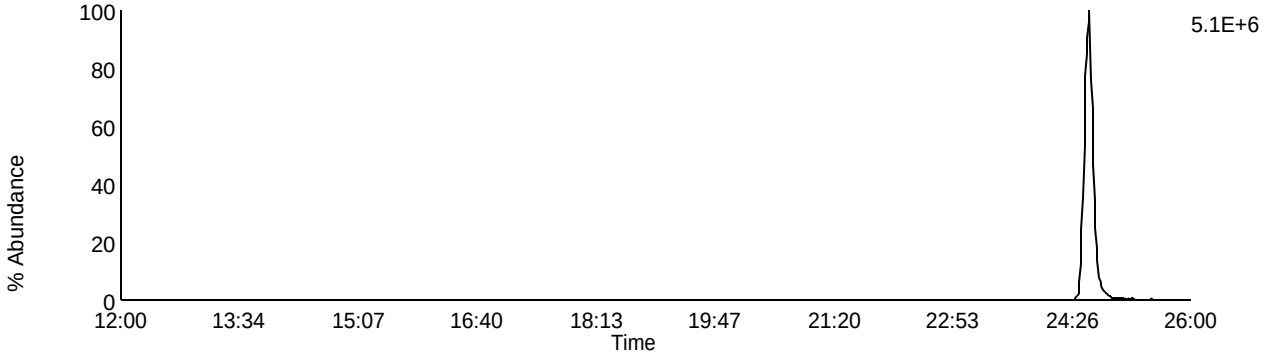
Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G1 C12 - 339.8597
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G1 C13 - 341.8567
CAL CS3/CPM-7604-304 - CVS



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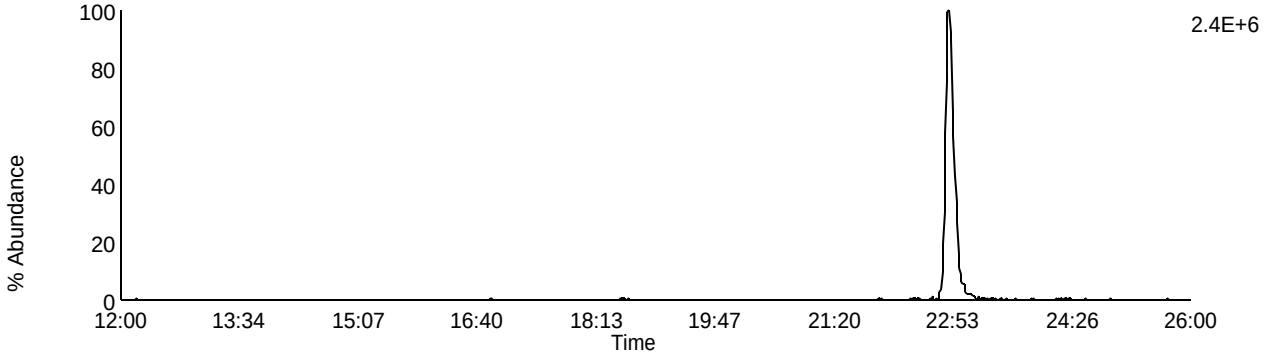
CAL CS3/CPM-7604-304 - CVS



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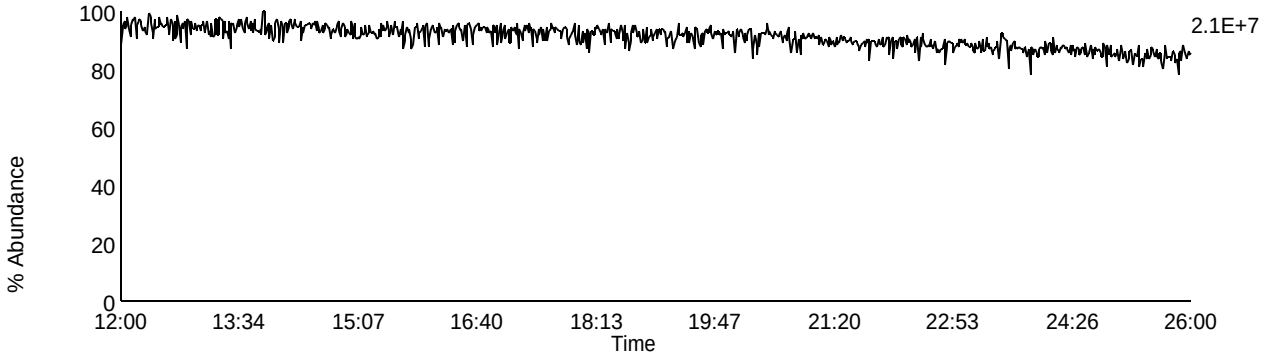
CAL CS3/CPM-7604-304 - CVS

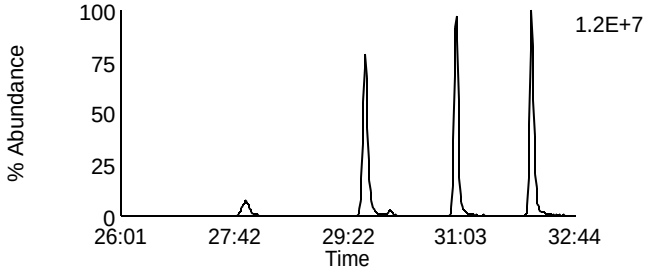


Homologue Group: Pentas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G2 C1 - 339.8597
CAL CS3/CPM-7604-304 - CVS



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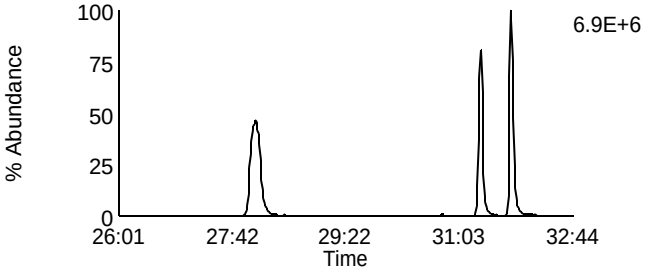
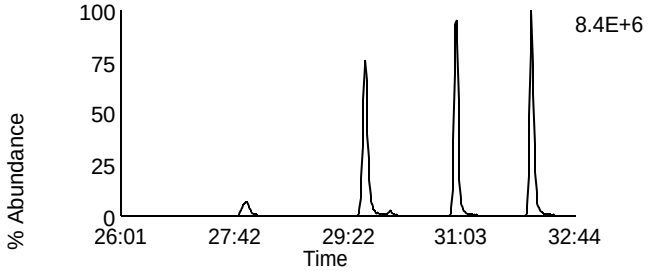
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G2 C2 - 341.8567
CAL CS3/CPM-7604-304 - CVS



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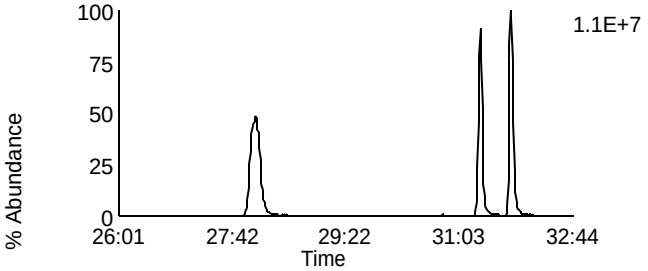
CAL CS3/CPM-7604-304 - CVS



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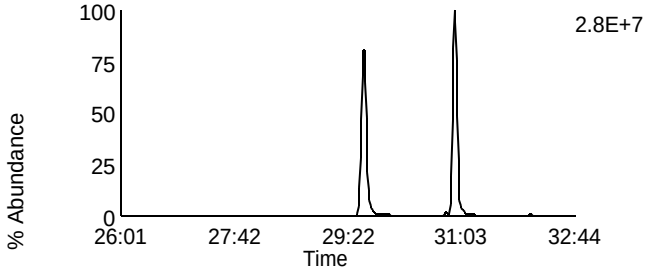
CAL CS3/CPM-7604-304 - CVS



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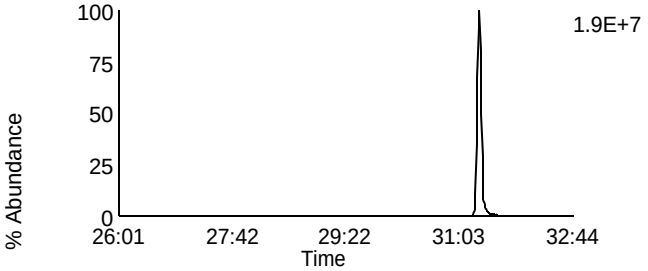
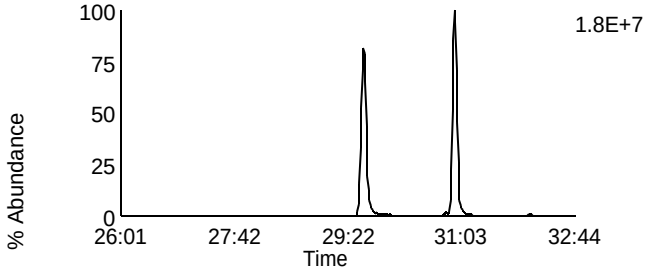
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G2 C5 - 353.8969
CAL CS3/CPM-7604-304 - CVS



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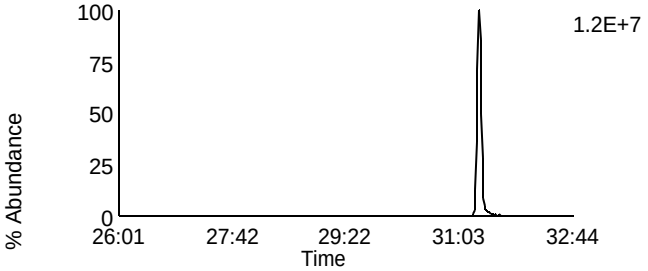
CAL CS3/CPM-7604-304 - CVS



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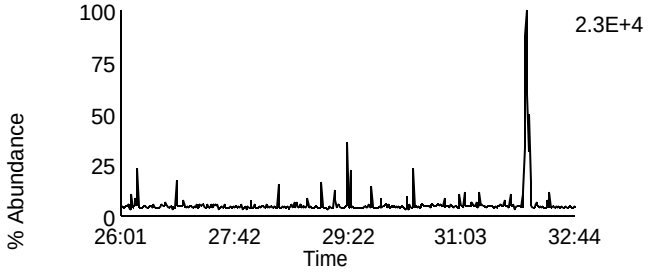
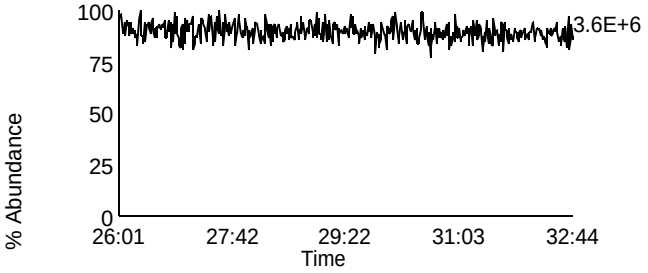
CAL CS3/CPM-7604-304 - CVS



Data File: U140513A_17 G2 C6 - 354.9792
CAL CS3/CPM-7604-304 - CVS

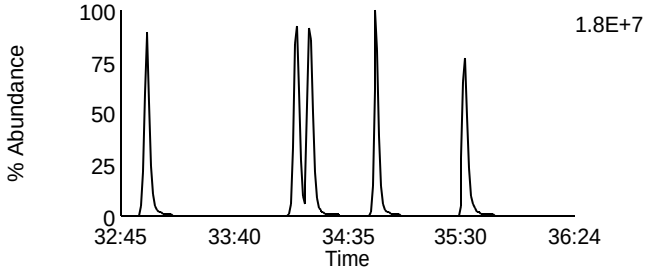


Homologue Group: Hexas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G3 C1 - 373.8207
CAL CS3/CPM-7604-304 - CVS



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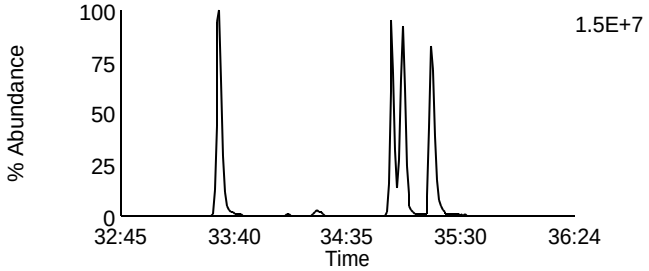
CAL CS3/CPM-7604-304 - CVS



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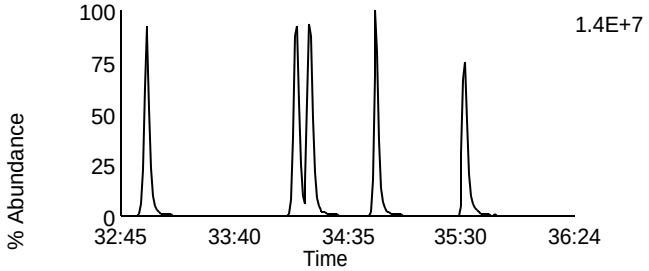
CAL CS3/CPM-7604-304 - CVS



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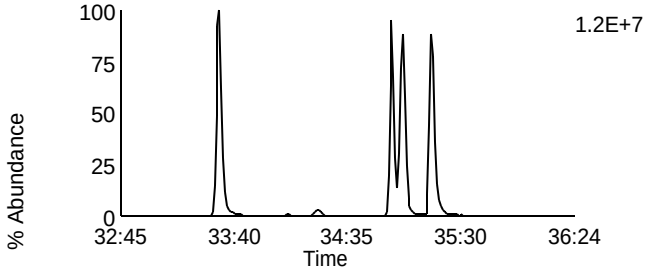
CAL CS3/CPM-7604-304 - CVS



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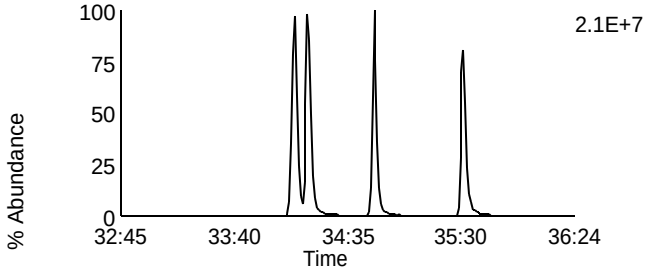
CAL CS3/CPM-7604-304 - CVS



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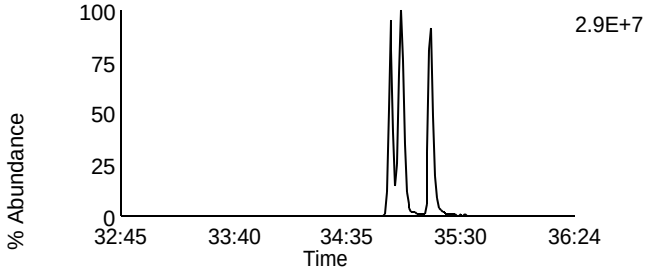
CAL CS3/CPM-7604-304 - CVS



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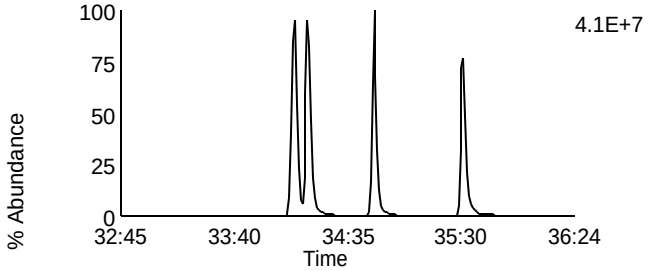
CAL CS3/CPM-7604-304 - CVS



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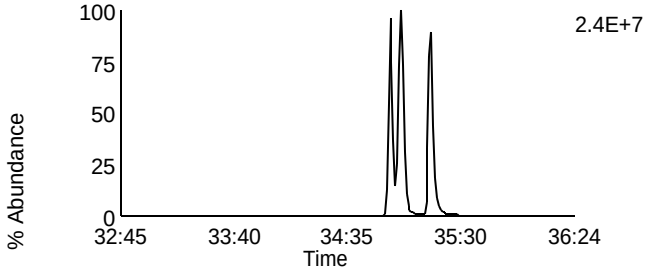
CAL CS3/CPM-7604-304 - CVS



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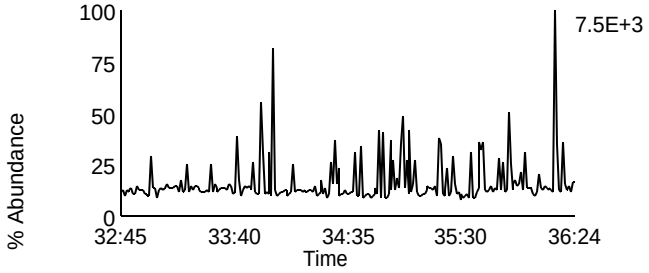
CAL CS3/CPM-7604-304 - CVS



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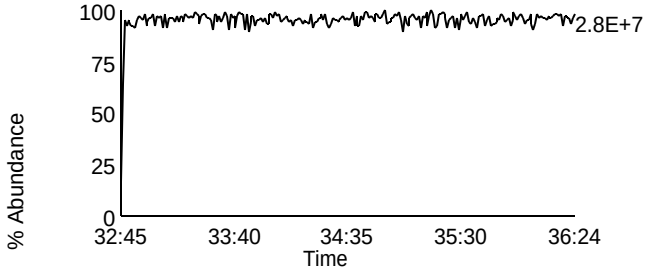
CAL CS3/CPM-7604-304 - CVS

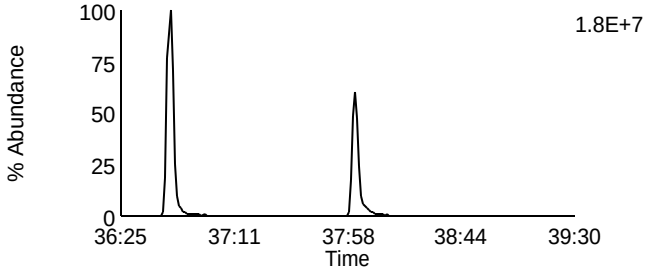


Homologue Group: Heptas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G4 C3 - 407.7818
CAL CS3/CPM-7604-304 - CVS



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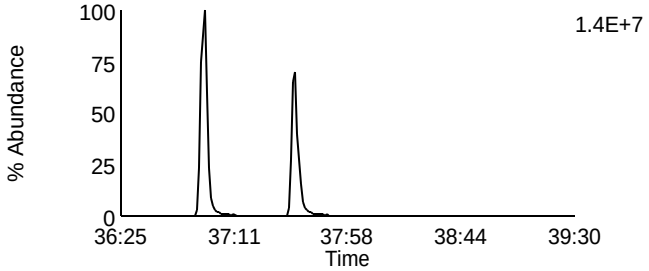
CAL CS3/CPM-7604-304 - CVS



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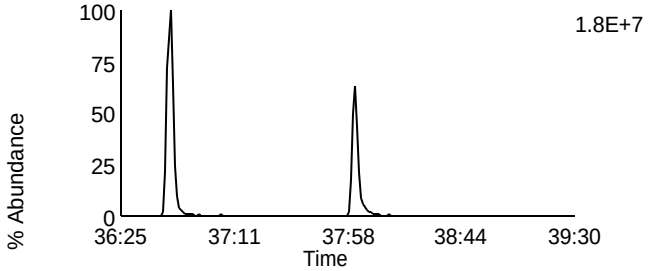
CAL CS3/CPM-7604-304 - CVS



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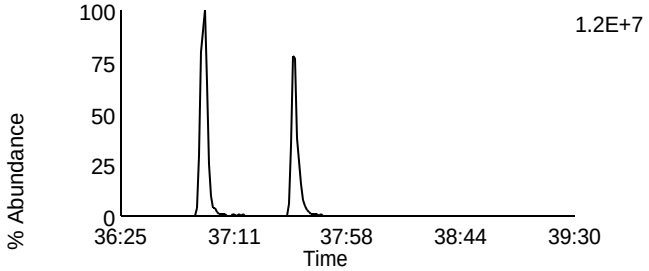
CAL CS3/CPM-7604-304 - CVS



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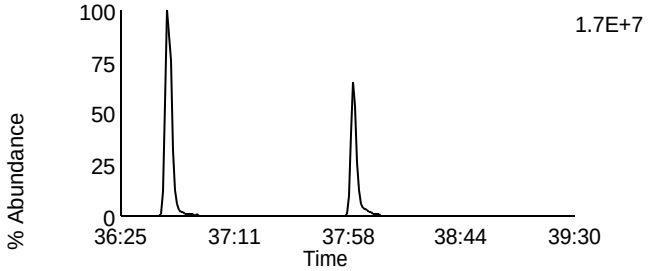
CAL CS3/CPM-7604-304 - CVS



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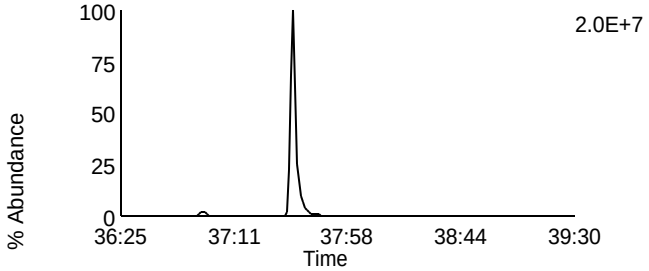
CAL CS3/CPM-7604-304 - CVS



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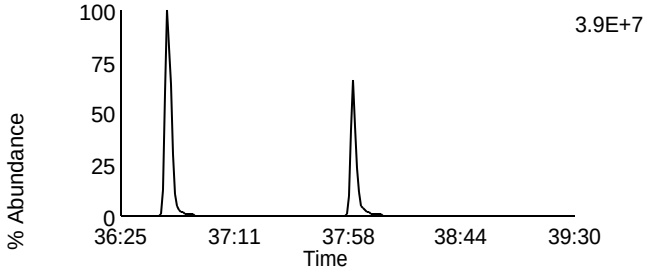
CAL CS3/CPM-7604-304 - CVS



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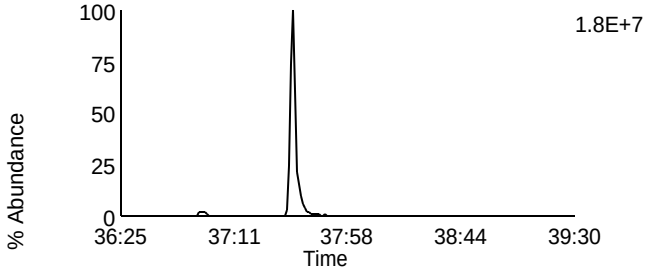

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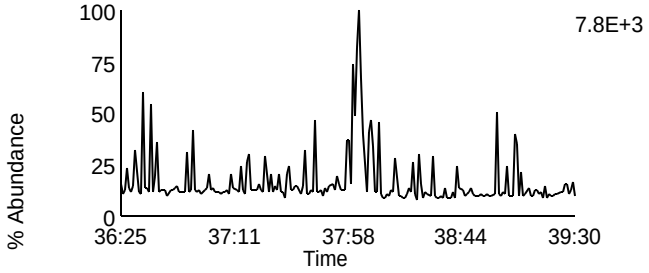

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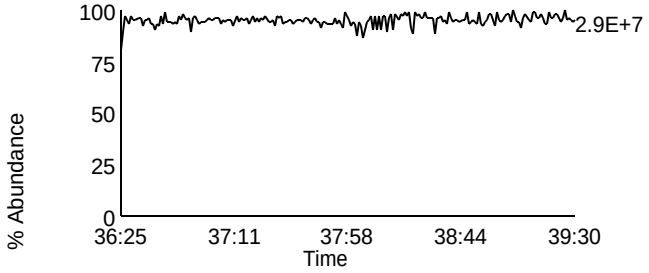
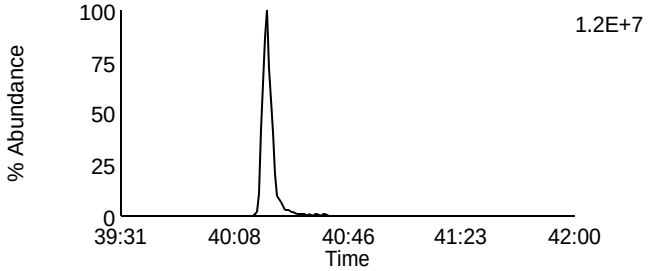


Homologue Group: Octas

Data File Name: U140513A_17
Date Acquired: 5/13/2014
Sample Description: CAL CS3/CPM-7604-304 - CVS

Lab Sample ID: CS3/CPM-7604-304
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140513A_17 G5 C4 - 441.7428
CAL CS3/CPM-7604-304 - CVS



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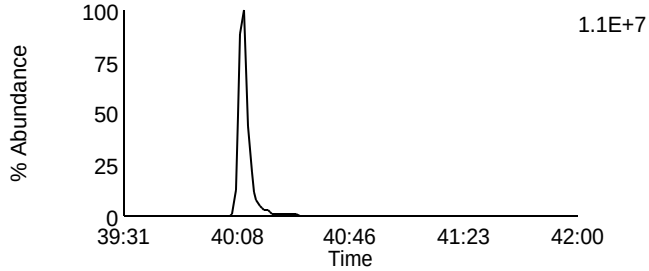

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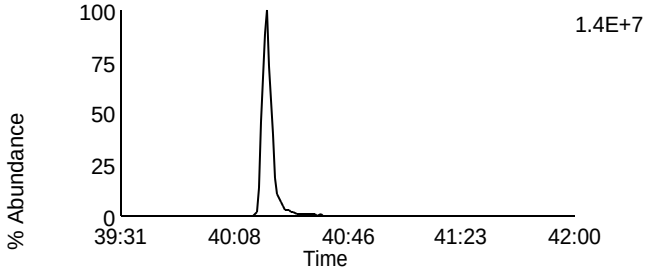

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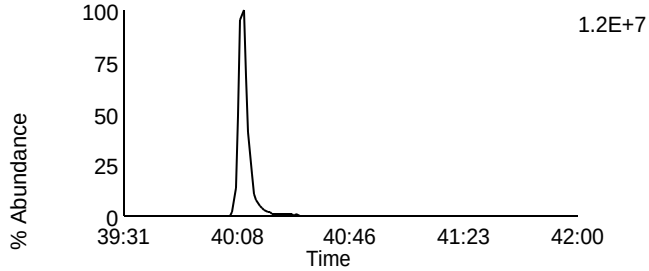

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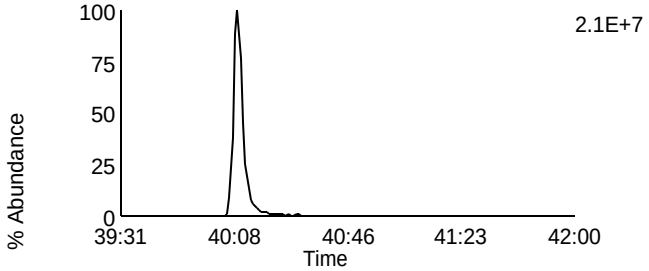
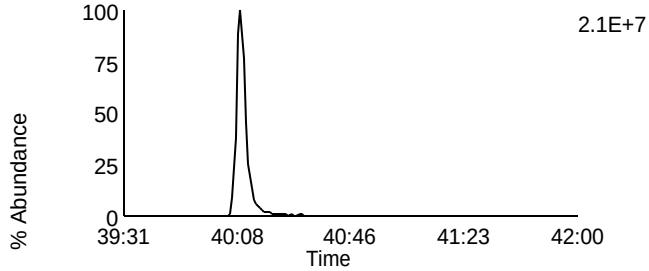


Data File: U140513A_17 G5 C11 - 469.7779
CAL CS3/CPM-7604-304 - CVS



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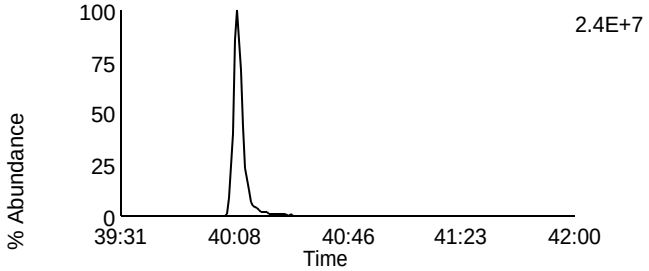

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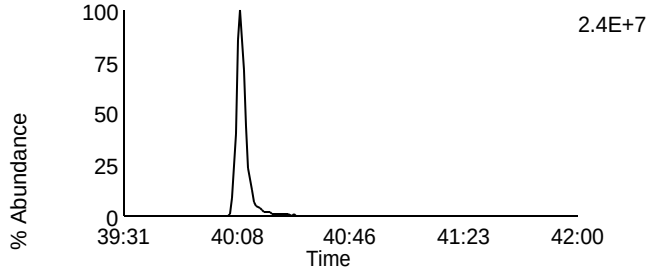

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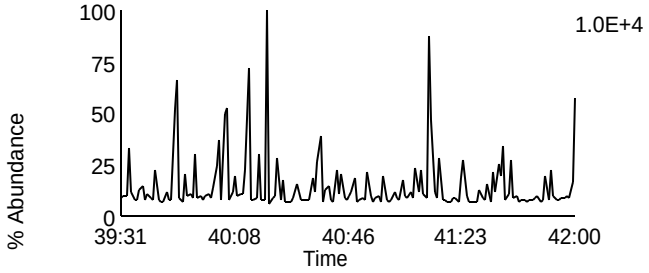

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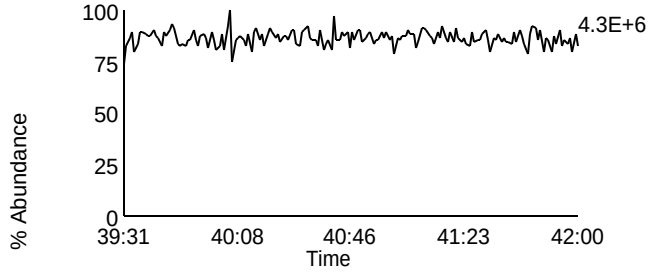

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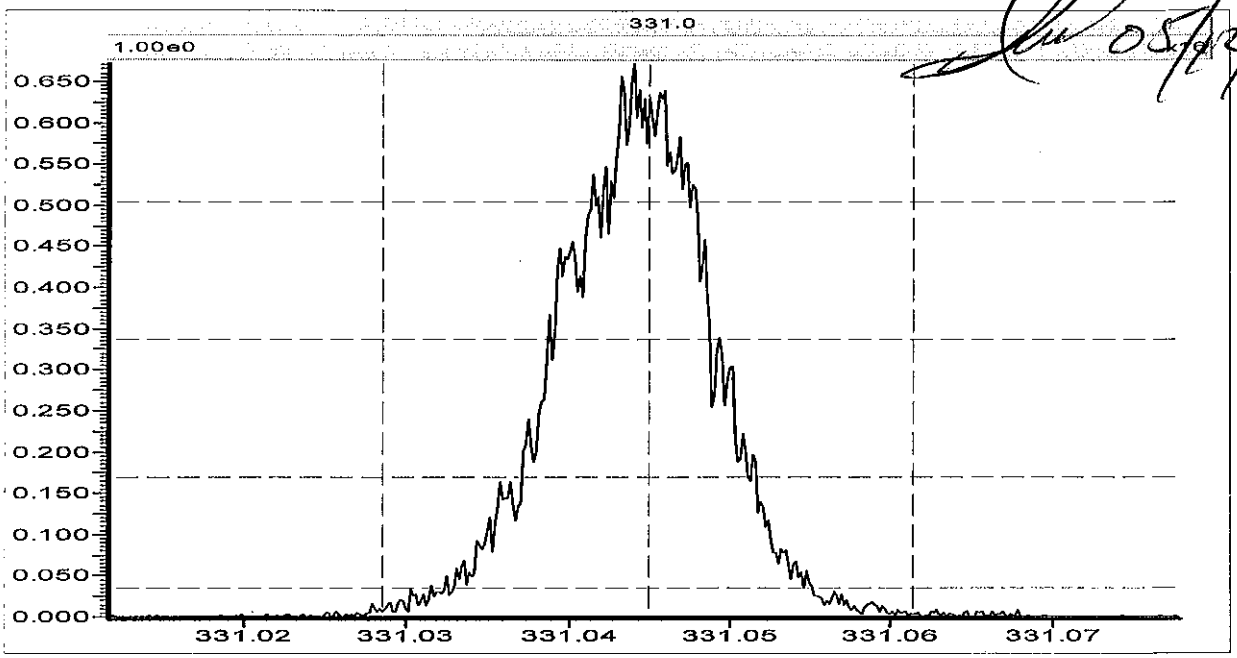
Printed: Monday, May 12, 2014 10:57:21 Central Daylight Time

05/12/14

Sum 5/12/14



Source (EI+)

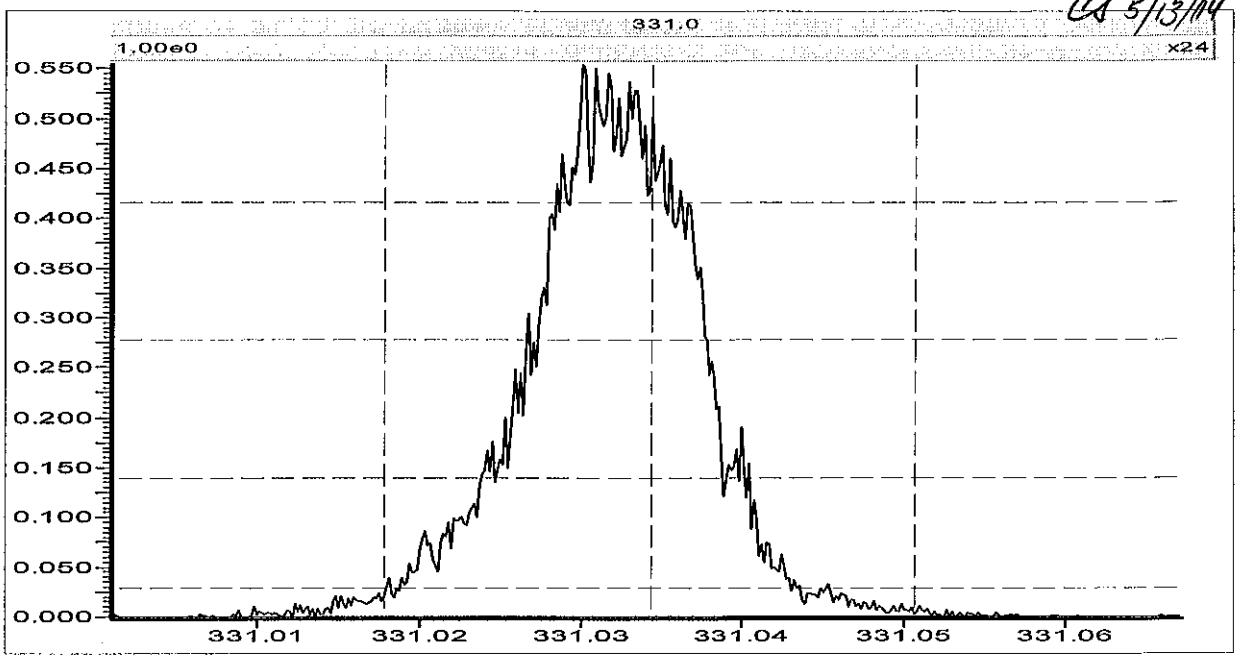
Ion Repeller (V)	-9.14
Focus 1	554
Beam Centre	18.4
Focus 2	4579
Temperature (C)	280
Elec Energy (eV)	32.4
Trap Current (uA)	500.0
Y Deflect 1	-102.4
Z Deflect 1	74.8
Z Deflect 2	30.3
Z Focus 2	2315
Z Focus 3	0
Z Deflect 3	40.3
Y Focus	3532
Rotate 2	-9.1
Curve 2	12.3
Curve 3	0.7
Rotate 3	-28.2
Rotate 4	-15.1
V Acc (V)	7989.67
Magnet Mass	331.0
Source Slit	34.48
Collector Slit	15.10
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	351
Ion Energy	-12.90
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Tuesday, May 13, 2014 08:12:04 Central Daylight Time



Source (EI+)

Ion Repeller (V)	-9.14
Focus 1	554
Beam Centre	18.4
Focus 2	4579
Temperature (C)	280
Elec Energy (eV)	32.4
Trap Current (uA)	500.0
Y Deflect 1	-102.4
Z Deflect 1	74.8
Z Deflect 2	30.3
Z Focus 2	2315
Z Focus 3	0
Z Deflect 3	40.3
Y Focus	3532
Rotate 2	-9.1
Curve 2	12.3
Curve 3	0.7
Rotate 3	-28.2
Rotate 4	-15.1
V Acc (V)	7989.93
Magnet Mass	331.0
Source Slit	34.48
Collector Slit	15.10
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	351
Ion Energy	-12.90
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

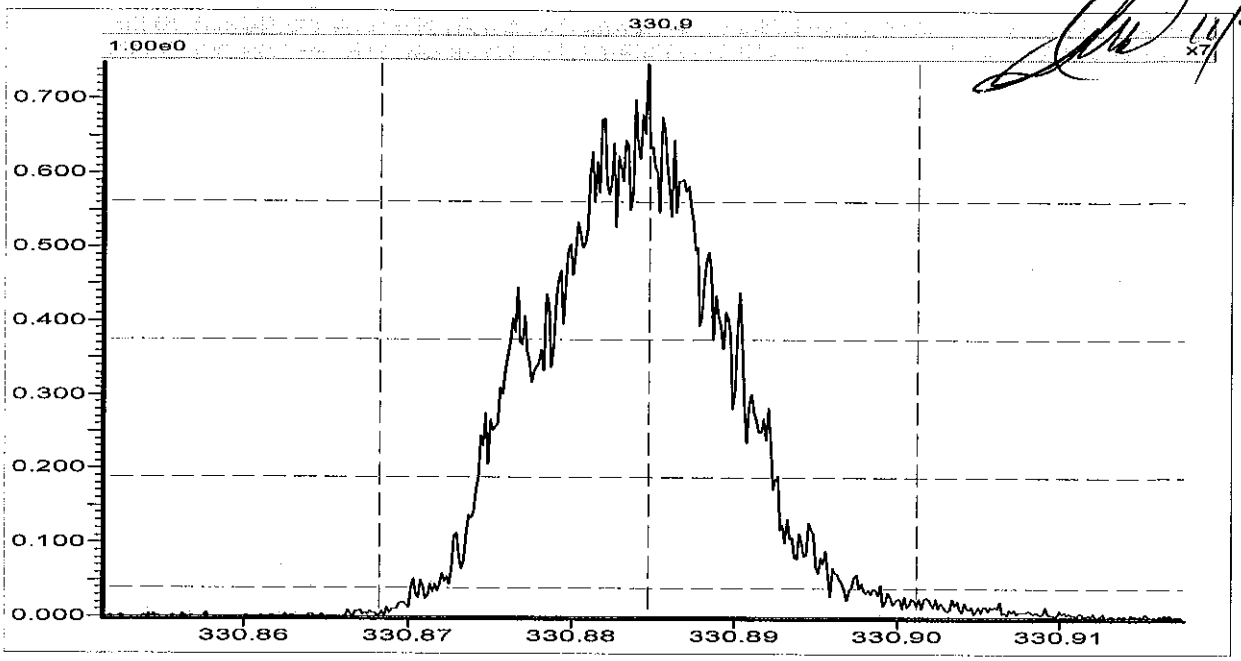
Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Monday, November 25, 2013 19:22:59 Central Standard Time

BAL 11/25/13

11/26/13



Source (EI+)

Ion Repeller (V)	-11.49
Focus 1	1074
Beam Centre	-14.1
Focus 2	3931
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-107.6
Z Deflect 1	69.1
Z Deflect 2	26.7
Z Focus 2	2253
Z Focus 3	0
Z Deflect 3	23.4
Y Focus	3791
Rotate 2	-8.2
Curve 2	16.4
Curve 3	-1.9
Rotate 3	-23.7
Rotate 4	5.8
V Acc (V)	7992.48
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	14.66
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

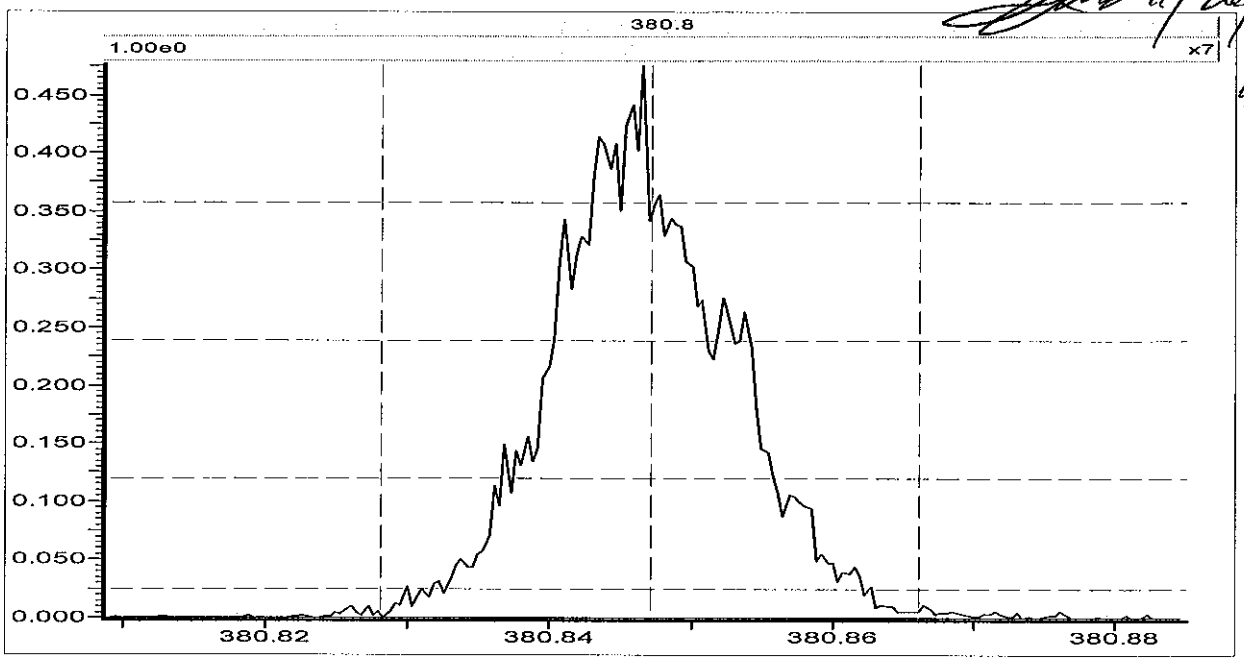
Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Tuesday, November 26, 2013 06:28:16 Central Standard Time

11/26/13

11/27/13



Source (EI+)

Ion Repeller (V)	-11.49
Focus 1	1074
Beam Centre	-14.1
Focus 2	3931
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-107.6
Z Deflect 1	69.1
Z Deflect 2	26.7
Z Focus 2	2253
Z Focus 3	0
Z Deflect 3	23.4
Y Focus	3791
Rotate 2	-8.2
Curve 2	16.4
Curve 3	-1.9
Rotate 3	-23.7
Rotate 4	5.8
V Acc (V)	7992.48
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	14.66
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

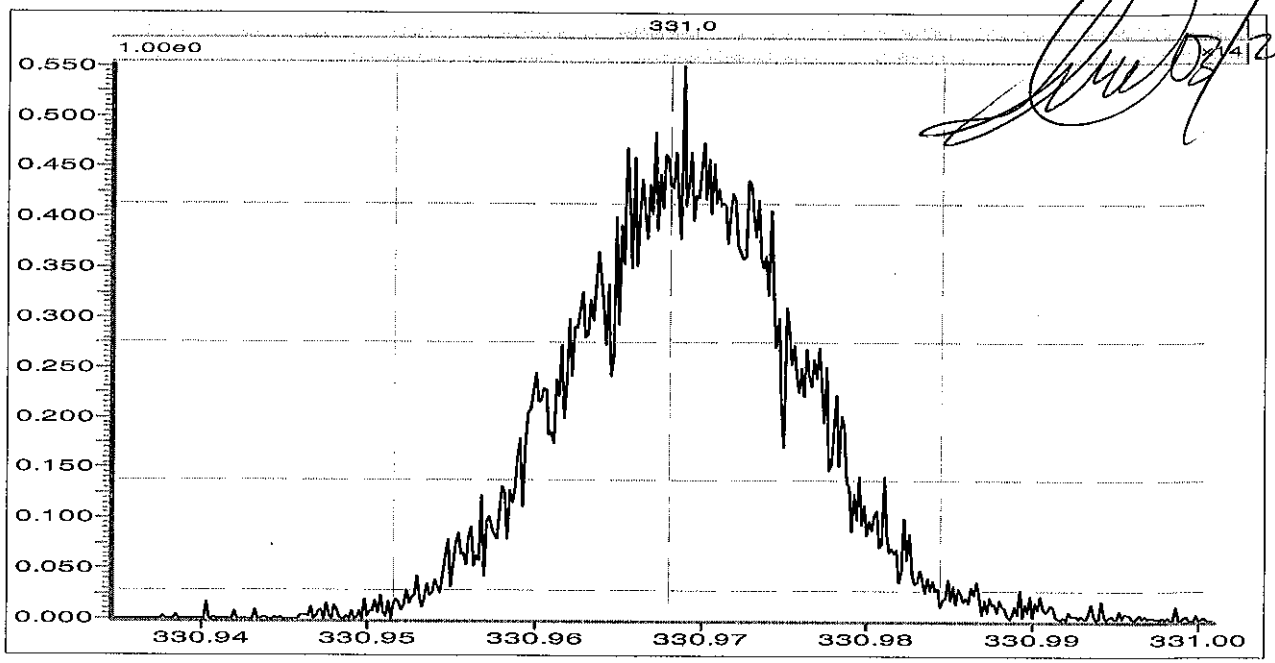
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\U10MSHR06.IPR

Printed: Saturday, March 22, 2014 12:46:20 Central Daylight Time

BAL 3/22/14



Source (EI+)

Ion Repeller (V)	-11.24
Focus 1	910
Beam Centre	45.1
Focus 2	3908
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-46.1
Z Deflect 1	-70.6
Z Deflect 2	14.5
Z Focus 2	2294
Z Focus 3	0
Z Deflect 3	17.5
Y Focus	3473
Rotate 2	-9.7
Curve 2	11.2
Curve 3	1.0
Rotate 3	-1.8
Rotate 4	1.3
V Acc (V)	7989.45
Magnet Mass	331.0
Source Slit	19.38
Collector Slit	34.20
MIKES Slit	100.00
Alpha	80.00
Detector Voltage	400
Ion Energy	-5.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

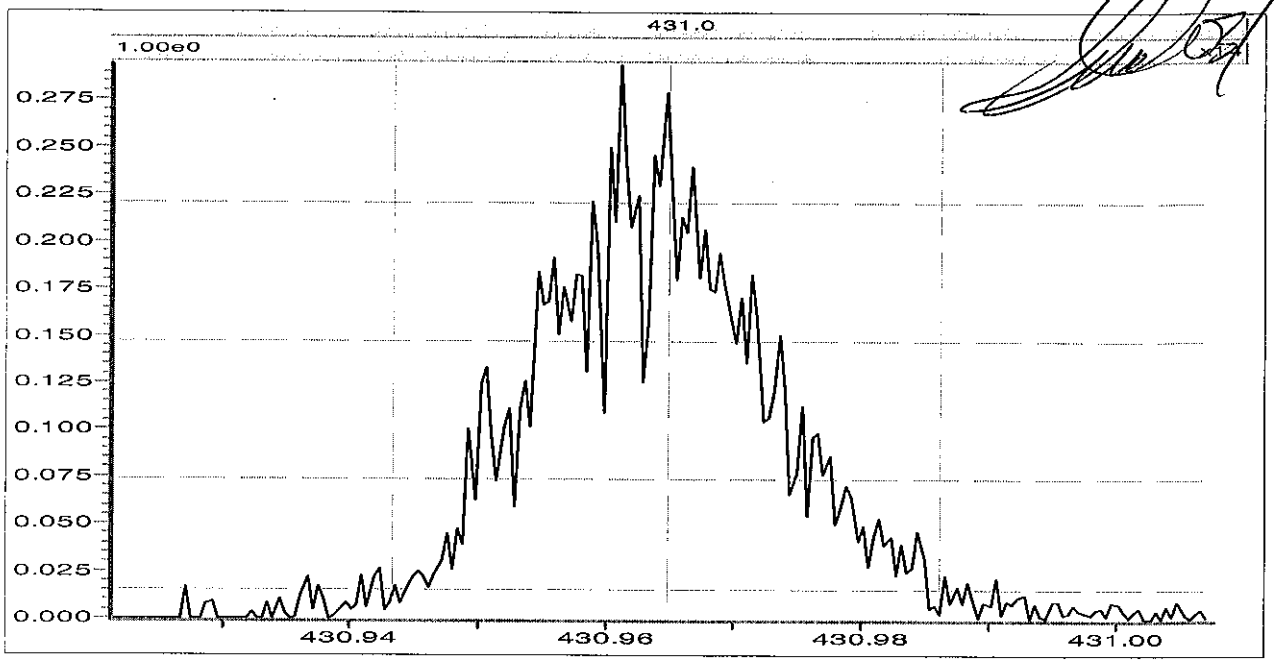
Engineer
No information

AutoSpec Tune Parameters **MassLynx 4.1 SCN 881**

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

Printed: Sunday, March 23, 2014 10:42:47 Central Daylight Time

BAL 3/23/14
end of draft
3/24/14



Source (EI+)

Ion Repeller (V)	-11.24
Focus 1	910
Beam Centre	45.1
Focus 2	3908
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-46.1
Z Deflect 1	-70.6
Z Deflect 2	14.5
Z Focus 2	2294
Z Focus 3	0
Z Deflect 3	17.5
Y Focus	3473
Rotate 2	-9.7
Curve 2	11.2
Curve 3	1.0
Rotate 3	-1.8
Rotate 4	1.3
V Acc (V)	7989.45
Magnet Mass	331.0
Source Slit	19.38
Collector Slit	34.20
MIKES Slit	100.00
Alpha	80.00
Detector Voltage	400
Ion Energy	-5.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\U10MSHR06.IPR

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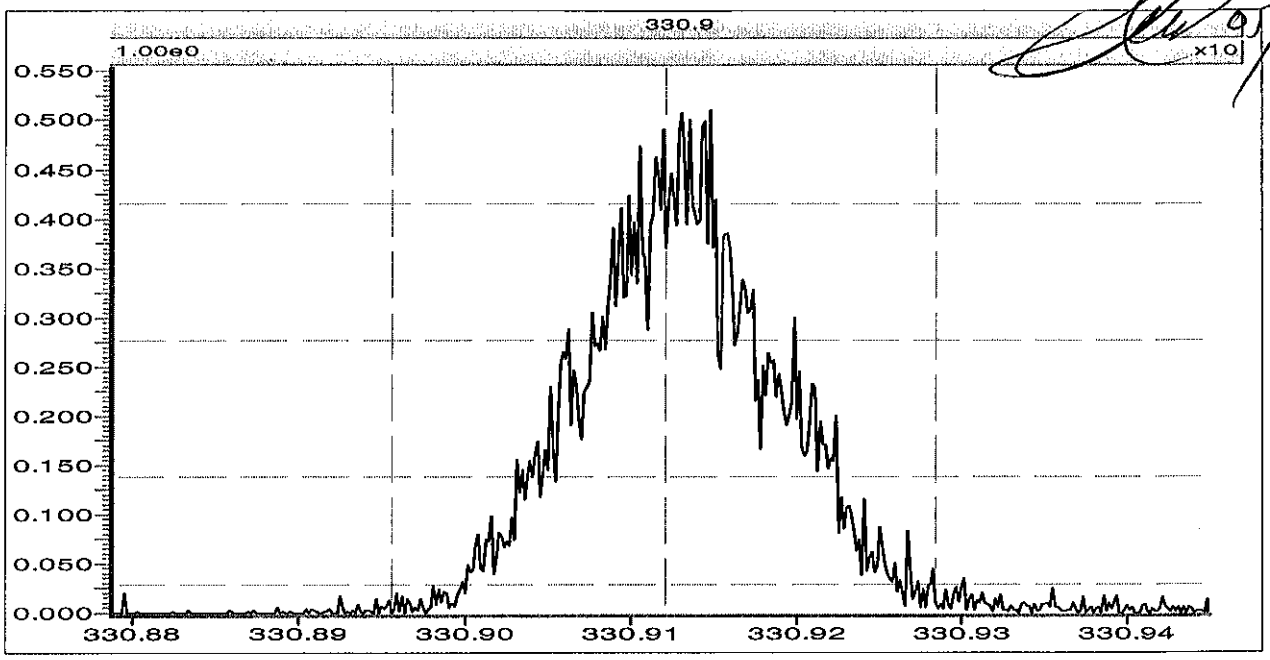


Source (EI+)

Ion Repeller (V)	-9.35
Focus 1	775
Beam Centre	33.8
Focus 2	4120
Temperature (C)	280
Elec Energy (eV)	33.0
Trap Current (uA)	500.6
Y Deflect 1	101.4
Z Deflect 1	-60.3
Z Deflect 2	-10.7
Z Focus 2	2409
Z Focus 3	0
Z Deflect 3	-25.4
Y Focus	3582
Rotate 2	-13.2
Curve 2	10.1
Curve 3	-6.4
Rotate 3	-2.5
Rotate 4	6.9
V Acc (V)	7986.41
Magnet Mass	330.9
Source Slit	20.00
Collector Slit	34.24
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

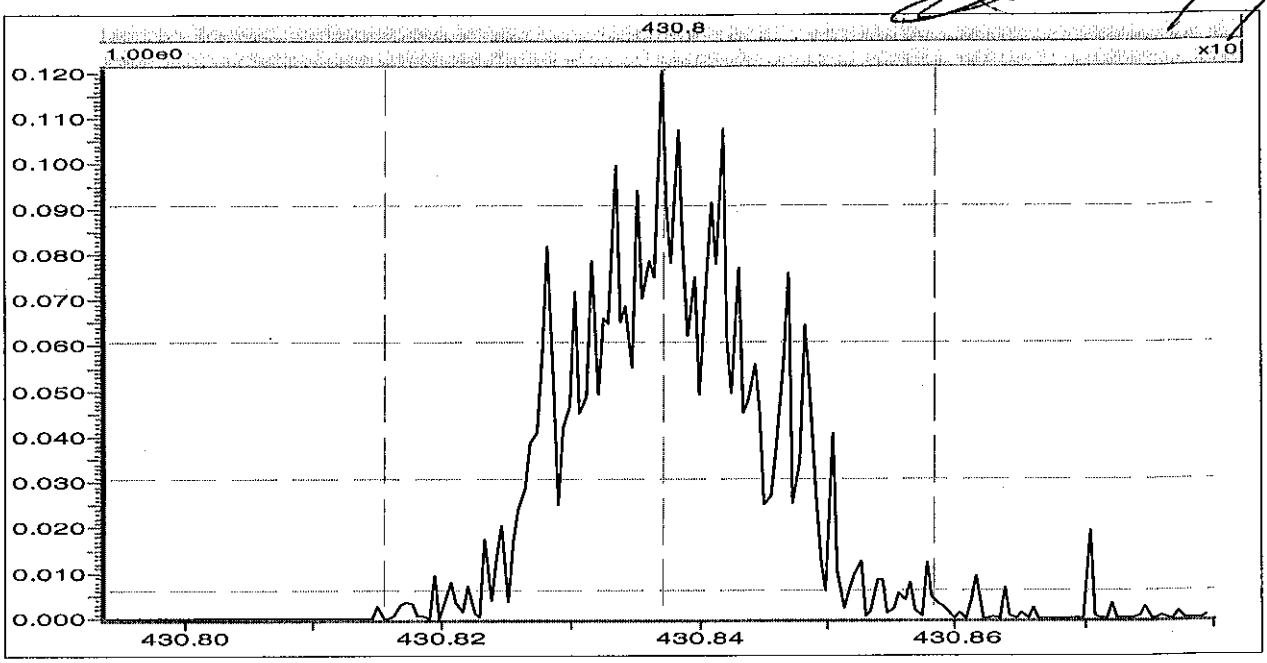
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

Printed: Tuesday, May 13, 2014 06:43:06 Central Daylight Time

05/13/14



Source (EI+)

Ion Repeller (V)	-9.35
Focus 1	775
Beam Centre	33.8
Focus 2	4120
Temperature (C)	280
Elec Energy (eV)	33.0
Trap Current (uA)	500.6
Y Deflect 1	101.4
Z Deflect 1	-60.3
Z Deflect 2	-10.7
Z Focus 2	2409
Z Focus 3	0
Z Deflect 3	-25.4
Y Focus	3582
Rotate 2	-13.2
Curve 2	10.1
Curve 3	-6.4
Rotate 3	-2.5
Rotate 4	6.9
V Acc (V)	7986.41
Magnet Mass	330.9
Source Slit	20.00
Collector Slit	34.24
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

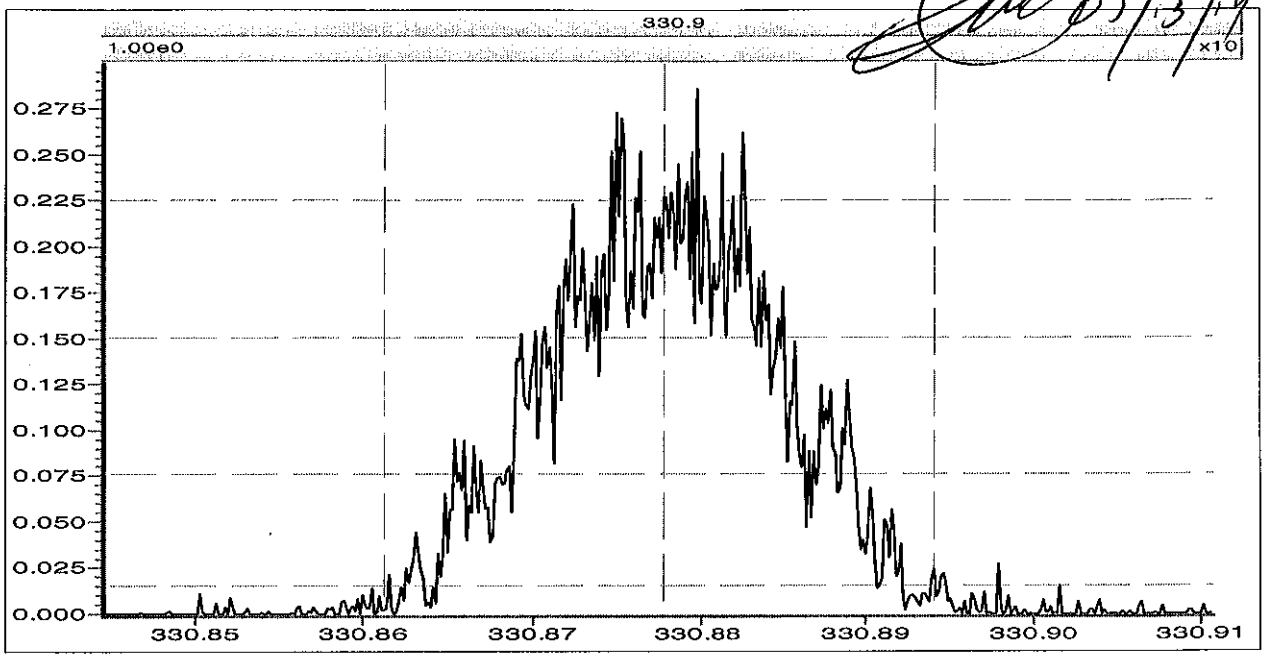
AutoSpec Tune Parameters **MassLynx 4.1 SCN 881**

File: C:\MassLynx\Default.pro\Acqudb\U10MSHR06CS.IPR

Printed: Tuesday, May 13, 2014 08:09:54 Central Daylight Time

05/13/14

5/13/14



Source (EI+)

Ion Repeller (V)	-9.35
Focus 1	775
Beam Centre	33.8
Focus 2	4120
Temperature (C)	280
Elec Energy (eV)	33.0
Trap Current (uA)	500.6
Y Deflect 1	101.4
Z Deflect 1	-60.3
Z Deflect 2	-10.7
Z Focus 2	2409
Z Focus 3	0
Z Deflect 3	-25.4
Y Focus	3582
Rotate 2	-13.2
Curve 2	10.1
Curve 3	-6.4
Rotate 3	-2.5
Rotate 4	6.9
V Acc (V)	7987.23
Magnet Mass	330.9
Source Slit	20.00
Collector Slit	35.24
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

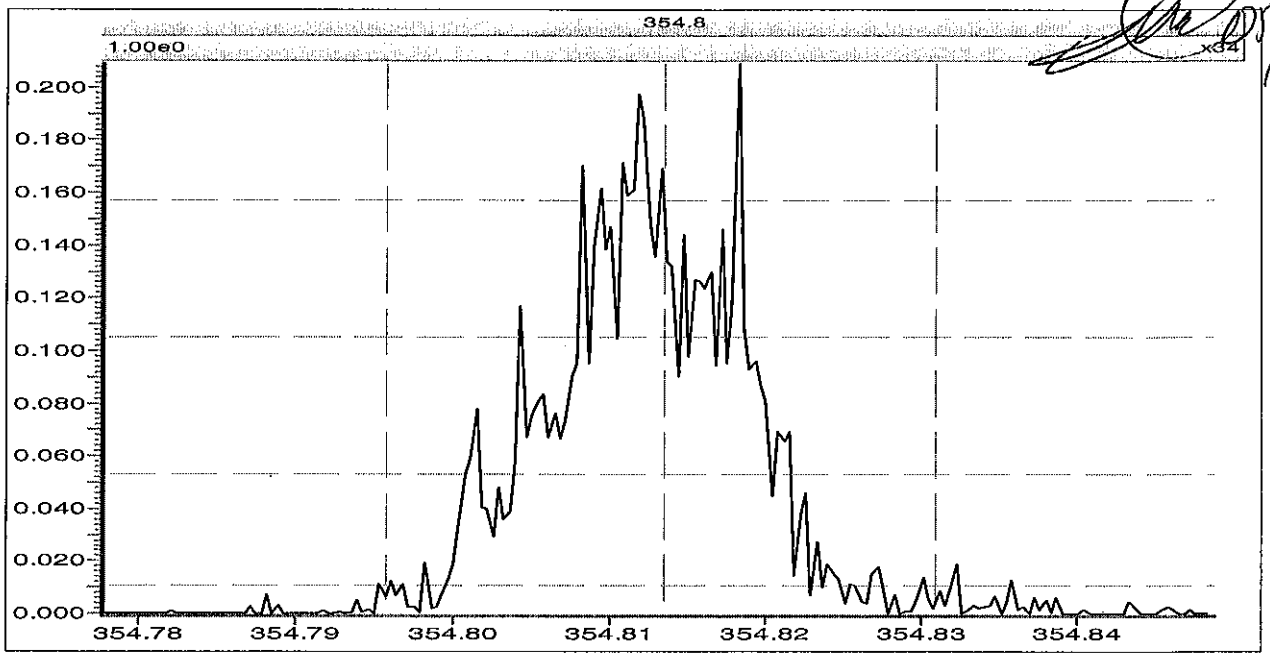
Engineer
No information

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06CS.IPR

Printed: Tuesday, May 13, 2014 19:51:04 Central Daylight Time

BAL 5/13/14

5/14/14



Source (EI+)

Ion Repeller (V)	-9.35
Focus 1	775
Beam Centre	33.8
Focus 2	4120
Temperature (C)	280
Elec Energy (eV)	33.0
Trap Current (uA)	500.6
Y Deflect 1	101.4
Z Deflect 1	-60.3
Z Deflect 2	-10.7
Z Focus 2	2409
Z Focus 3	0
Z Deflect 3	-25.4
Y Focus	3582
Rotate 2	-13.2
Curve 2	10.1
Curve 3	-6.4
Rotate 3	-2.5
Rotate 4	6.9
V Acc (V)	7987.23
Magnet Mass	330.9
Source Slit	20.00
Collector Slit	35.24
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

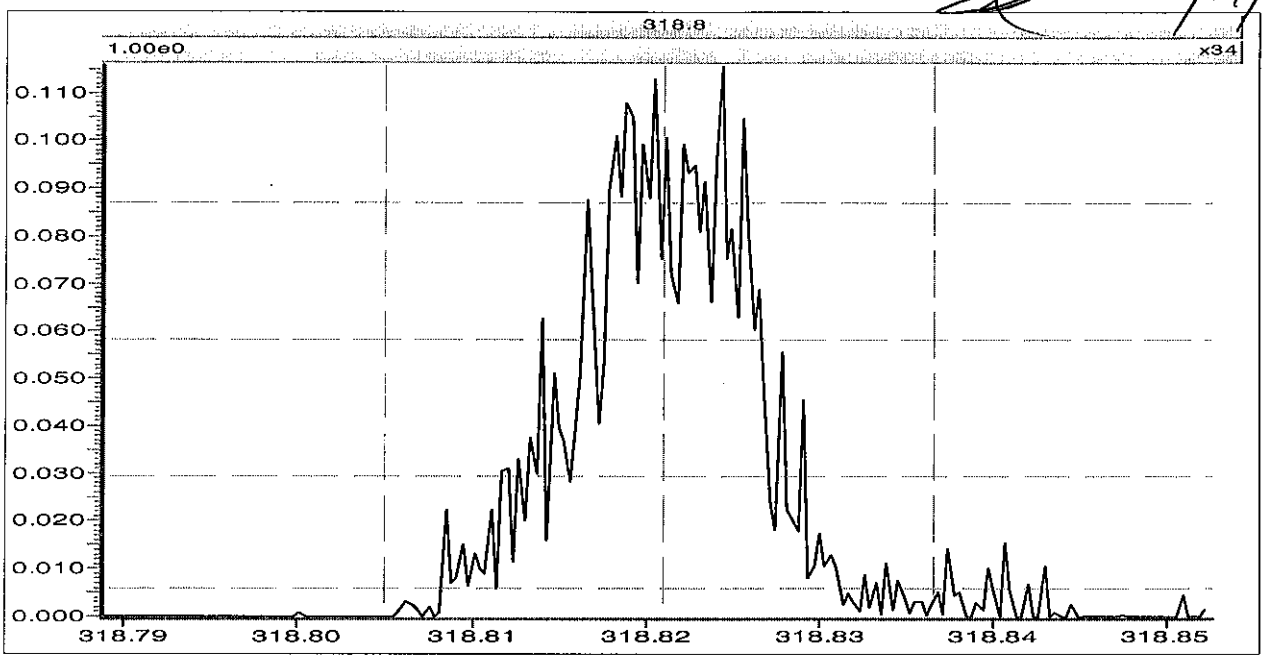
Engineer
No information

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06CS.IPR

Printed: Wednesday, May 14, 2014 10:34:24 Central Daylight Time

05/14/14

Swt 5/14/14



Source (EI+)

Ion Repeller (V)	-9.35
Focus 1	775
Beam Centre	33.8
Focus 2	4120
Temperature (C)	280
Elec Energy (eV)	33.0
Trap Current (uA)	500.6
Y Deflect 1	101.4
Z Deflect 1	-60.3
Z Deflect 2	-10.7
Z Focus 2	2409
Z Focus 3	0
Z Deflect 3	-25.4
Y Focus	3582
Rotate 2	-13.2
Curve 2	10.1
Curve 3	-6.4
Rotate 3	-2.5
Rotate 4	6.9
V Acc (V)	7987.23
Magnet Mass	330.9
Source Slit	20.00
Collector Slit	35.24
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

Appendix F

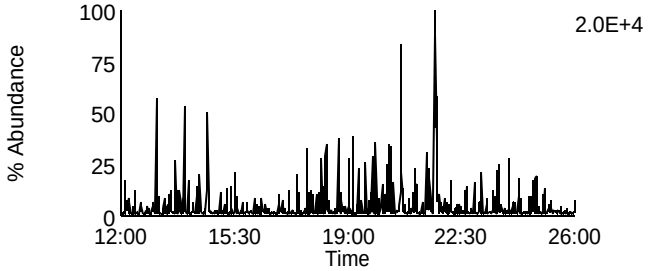
QC Raw Data

Homologue Group: Tetras

Data File Name: U140512A_06
Date Acquired: 5/12/2014
Sample Description: BLANK BLANK-40418 - SMT

Lab Sample ID: BLANK-40418
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140512A_06 G1 C1 - 303.9016
BLANK BLANK-40418 - SMT



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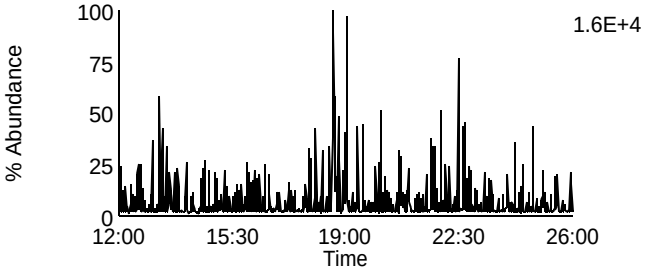

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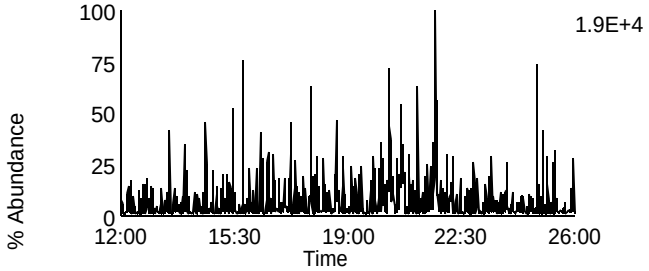
BLANK BLANK-40418 - SMT



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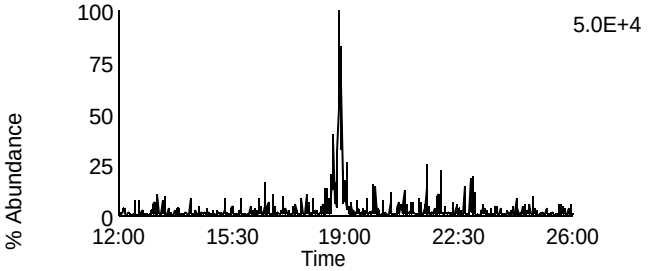

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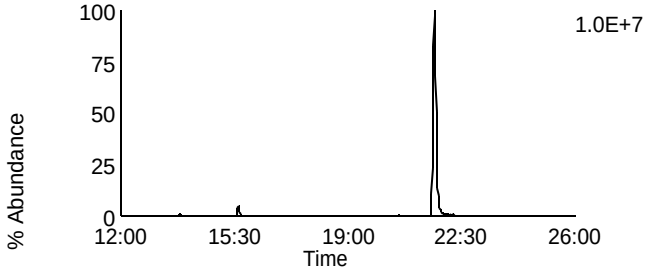

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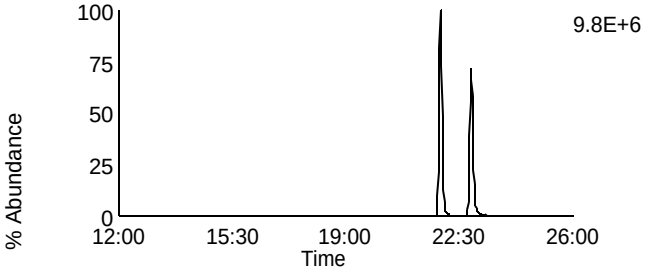

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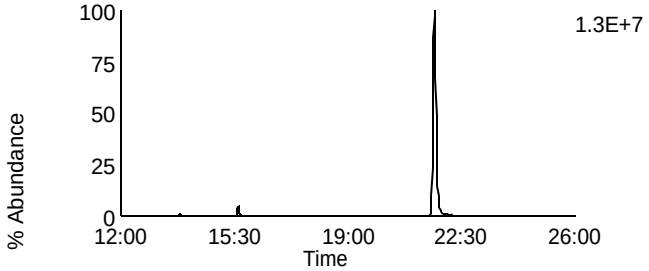

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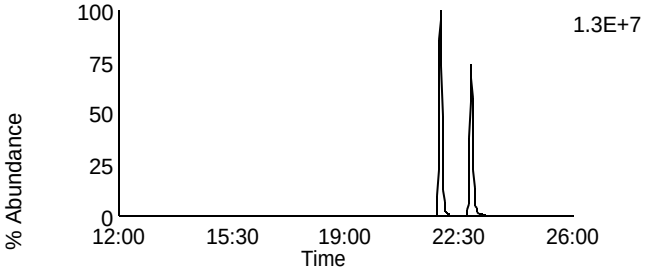

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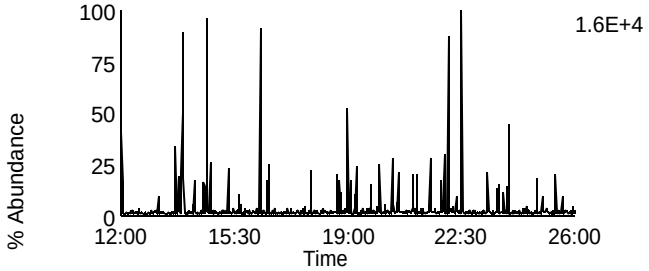

Data File: U140512A_06 G1 C5 - 318.9792
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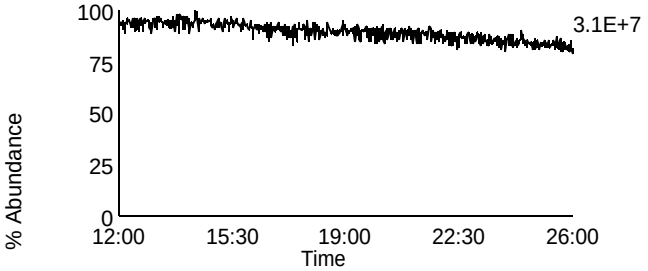
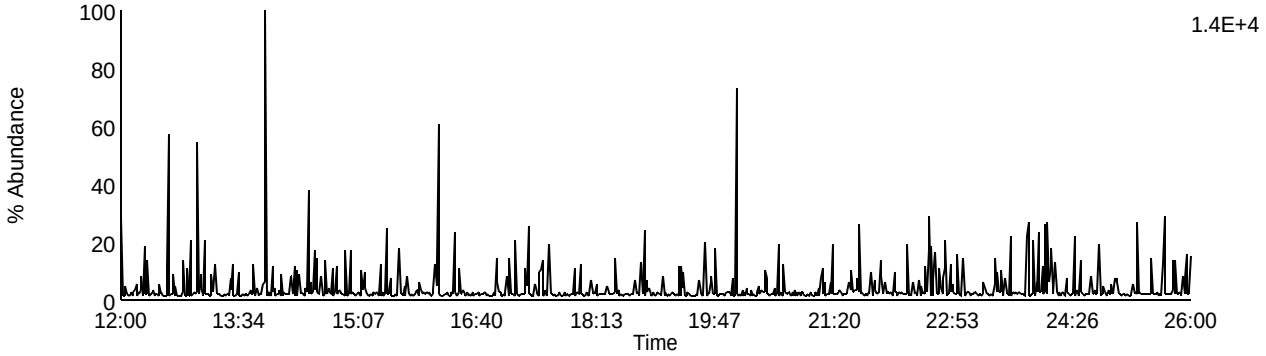


Homologue Group: Penta & Cleanup

Data File Name: U140512A_06	Lab Sample ID: BLANK-40418
Date Acquired: 5/12/2014	Client Sample ID:
Sample Description: BLANK BLANK-40418 - SMT	Instrument: 10MSHR06 (U)

Data File: U140512A_06 G1 C12 - 339.8597
BLANK BLANK-40418 - SMT



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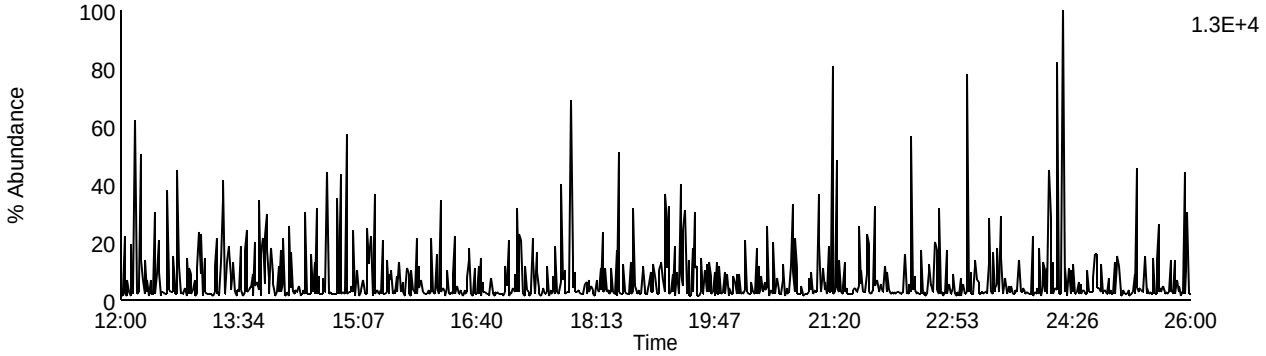
BLANK BLANK-40418 - SMT



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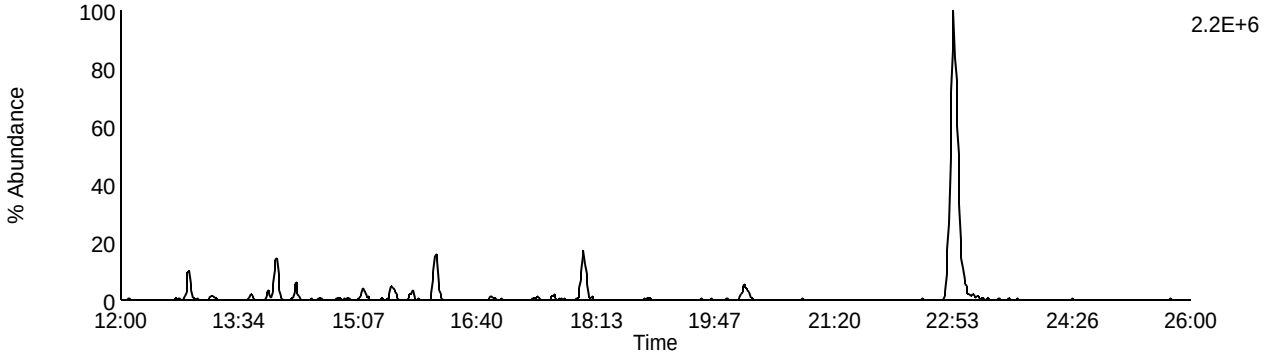

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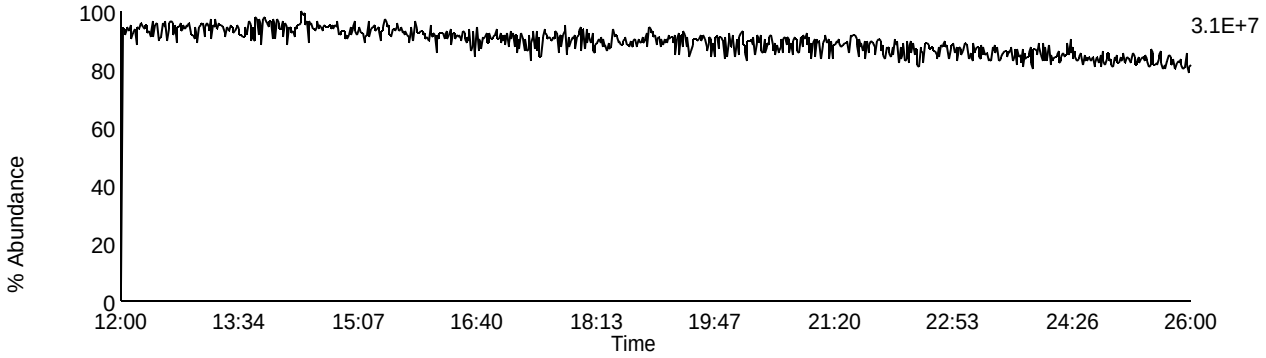
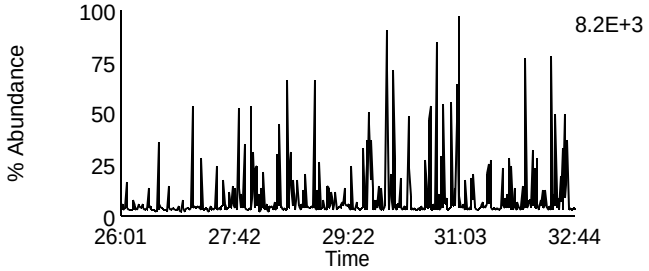


Homologue Group: Pentas

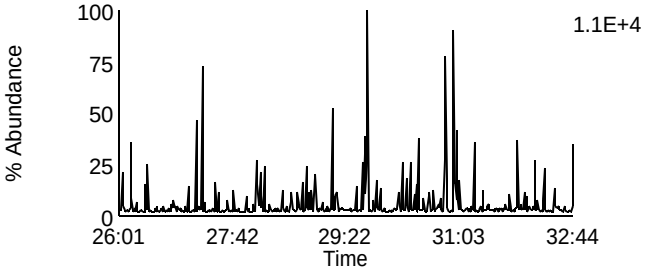
Data File Name: U140512A_06
Date Acquired: 5/12/2014
Sample Description: BLANK BLANK-40418 - SMT

Lab Sample ID: BLANK-40418
Client Sample ID:
Instrument: 10MSHR06 (U)

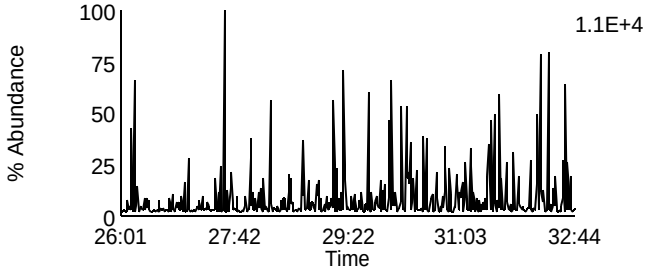
Data File: U140512A_06 G2 C1 - 339.8597
BLANK BLANK-40418 - SMT



Data File: U140512A_06 G2 C4 - 353.8576
BLANK BLANK-40418 - SMT



Data File: U140512A_06 G2 C2 - 341.8567
BLANK BLANK-40418 - SMT



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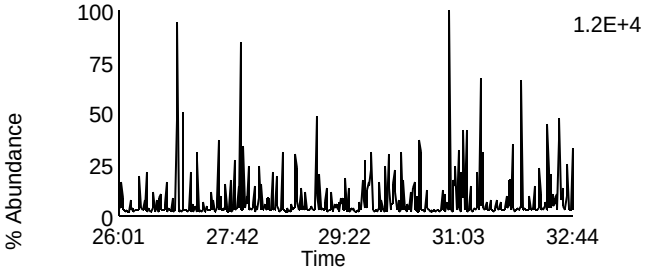
BLANK BLANK-40418 - SMT



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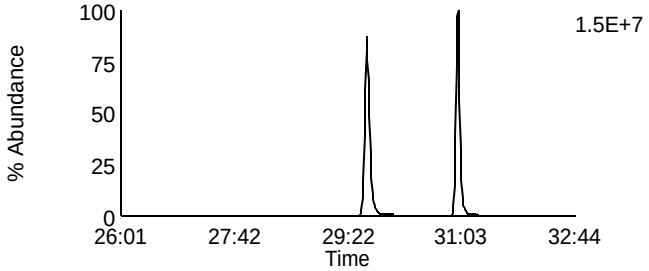
BLANK BLANK-40418 - SMT



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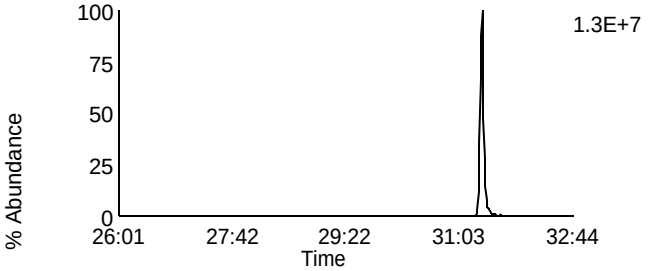
BLANK BLANK-40418 - SMT



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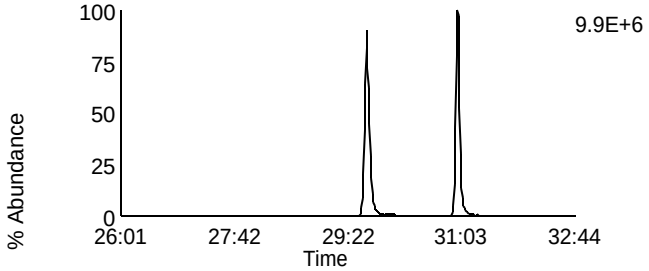
BLANK BLANK-40418 - SMT



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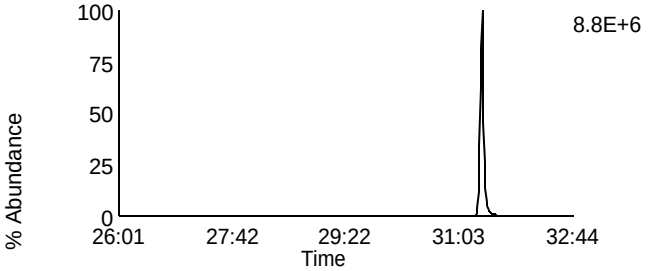

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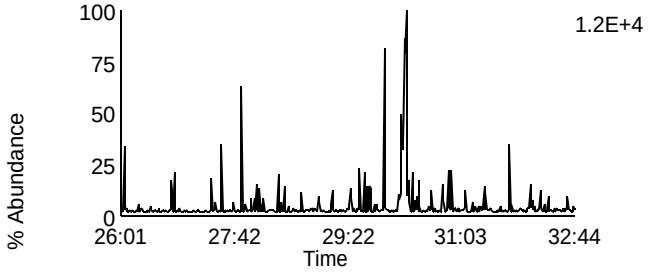

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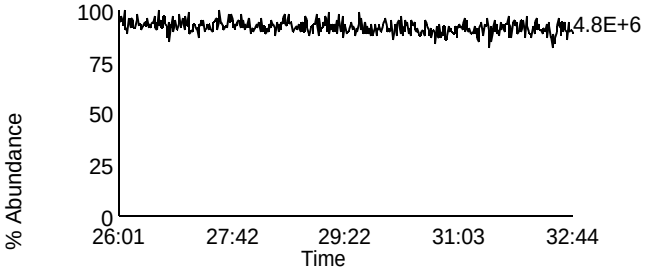
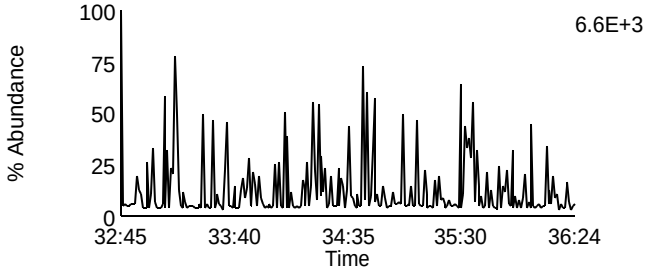


Homologue Group: Hexas

Data File Name: U140512A_06
Date Acquired: 5/12/2014
Sample Description: BLANK BLANK-40418 - SMT

Lab Sample ID: BLANK-40418
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140512A_06 G3 C1 - 373.8207
BLANK BLANK-40418 - SMT



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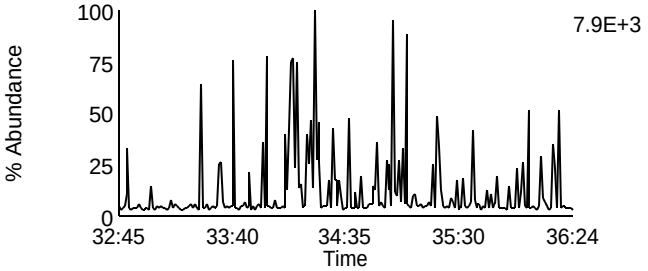

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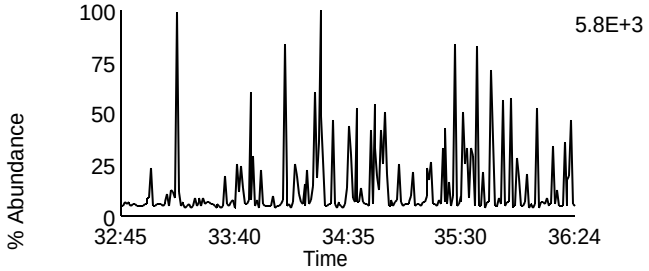

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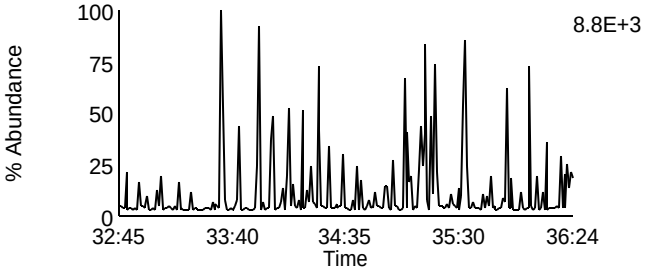

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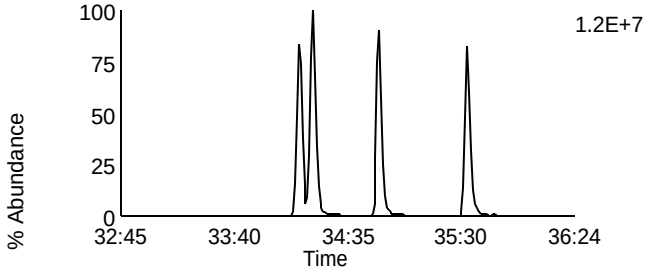

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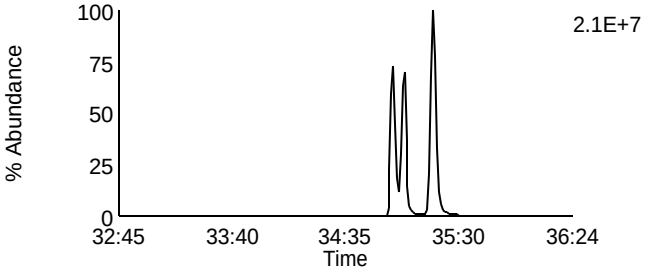

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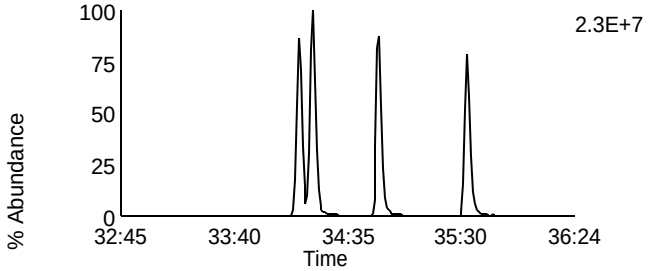

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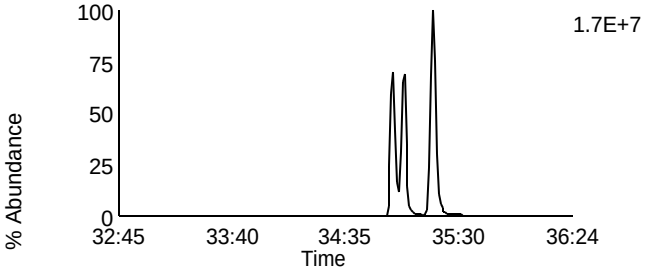

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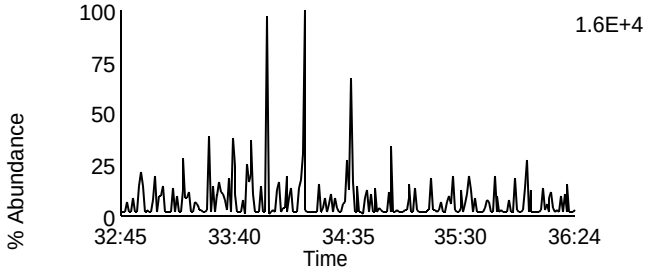

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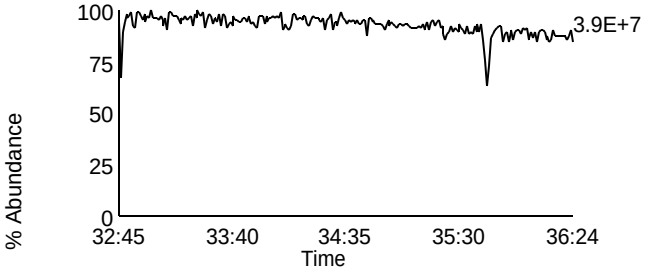
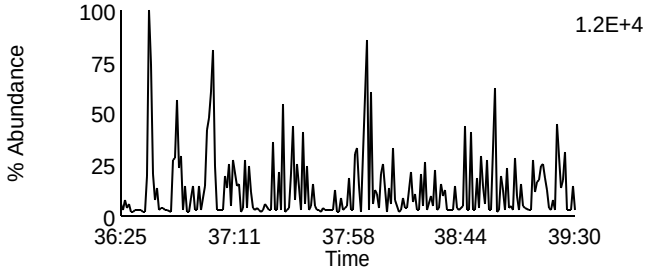


Homologue Group: Heptas

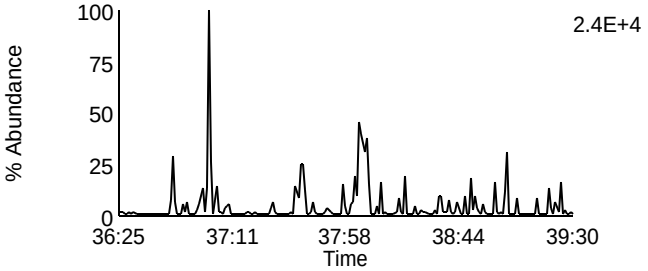
Data File Name: U140512A_06
Date Acquired: 5/12/2014
Sample Description: BLANK BLANK-40418 - SMT

Lab Sample ID: BLANK-40418
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140512A_06 G4 C3 - 407.7818
BLANK BLANK-40418 - SMT



Data File: U140512A_06 G4 C8 - 423.7767
BLANK BLANK-40418 - SMT



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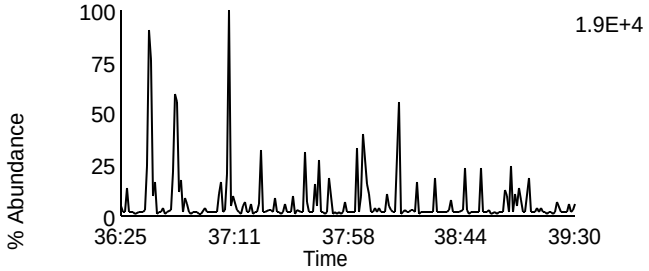

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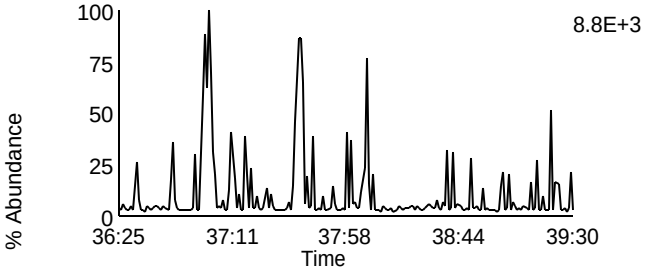

Data File: U140512A_06 G4 C6 - 417.825
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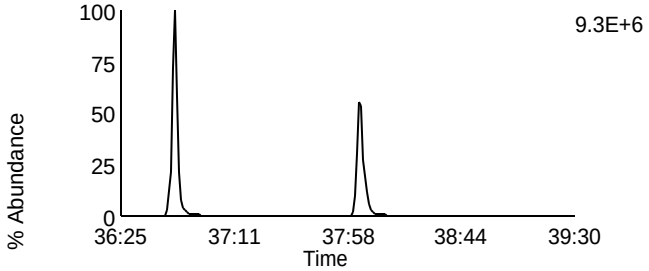
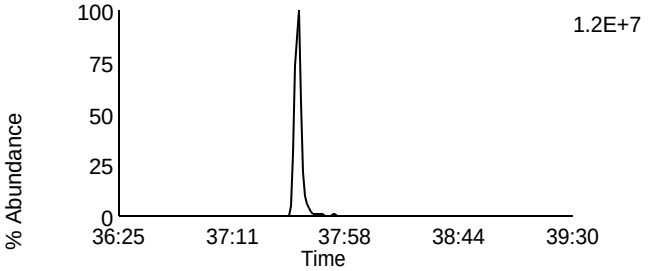


Data File: U140512A_06 G4 C11 - 435.8169
BLANK BLANK-40418 - SMT



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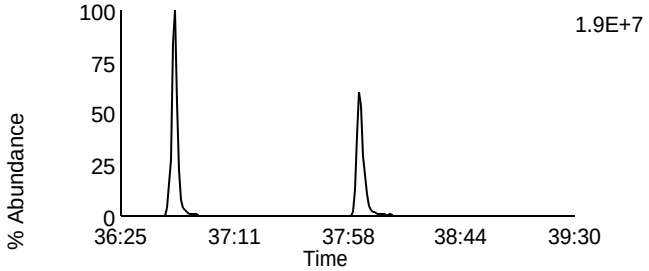

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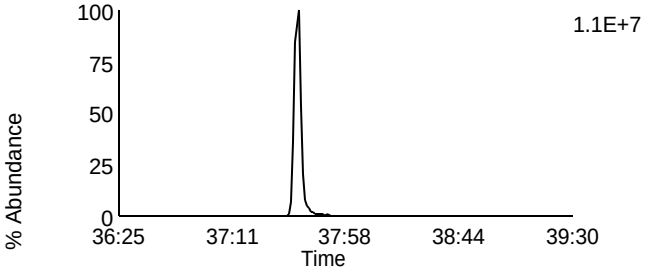

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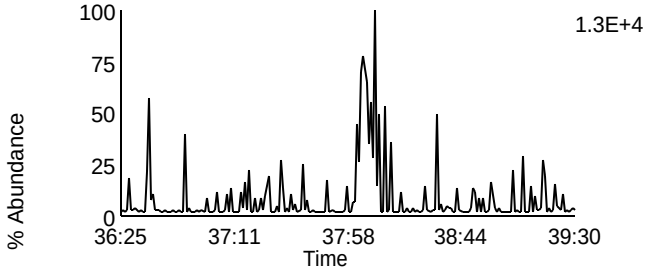

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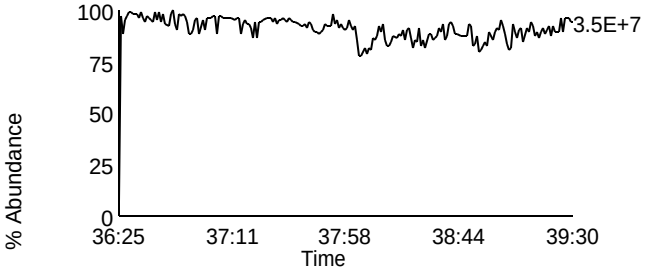

Homologue Group: Octas

Data File Name: U140512A_06
Date Acquired: 5/12/2014
Sample Description: BLANK BLANK-40418 - SMT

Lab Sample ID: BLANK-40418
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140512A_06 G5 C4 - 441.7428
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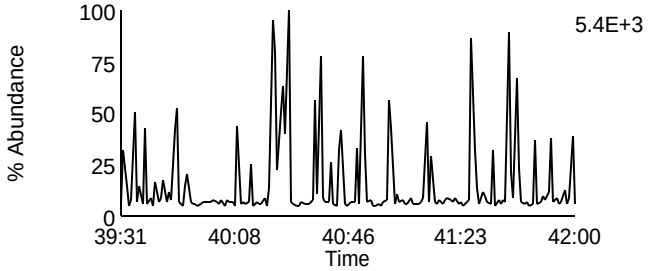

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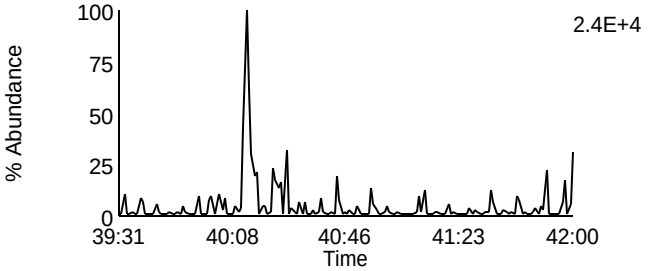
BLANK BLANK-40418 - SMT



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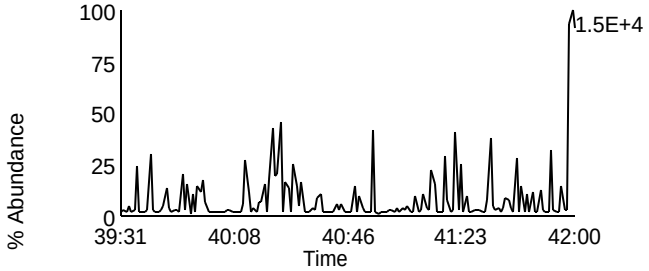

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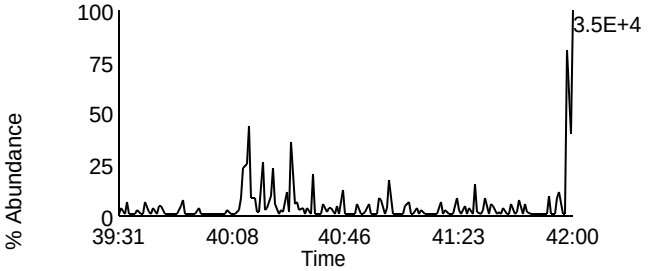

Data File: U140512A_06 G5 C11 - 469.7779
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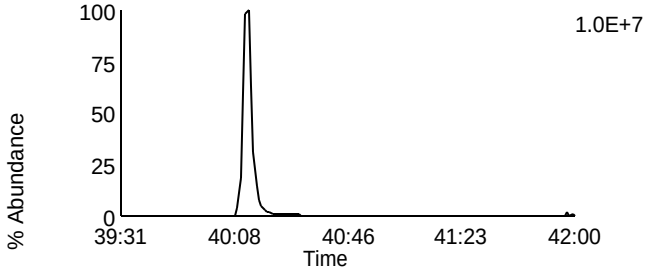

Data File: U140512A_06 G5 C11 - 469.7779
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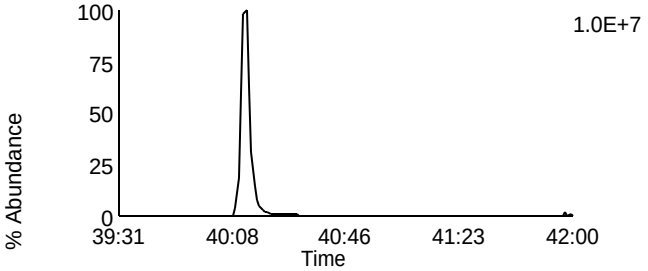
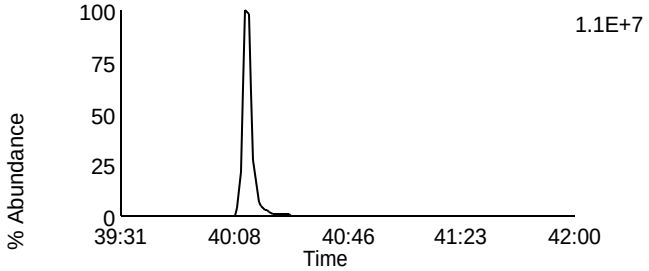


Data File: U140512A_06 G5 C12 - 471.7749
BLANK BLANK-40418 - SMT



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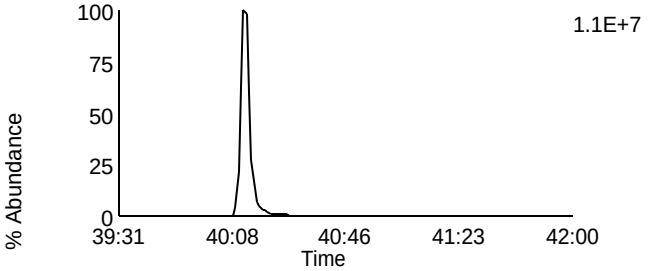

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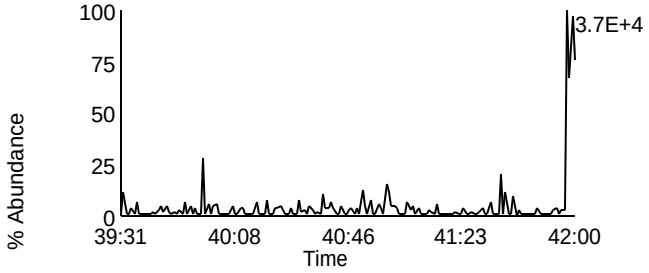

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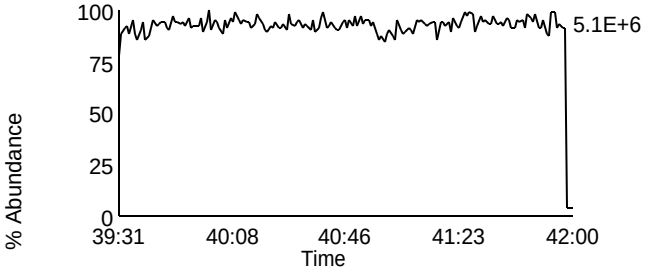
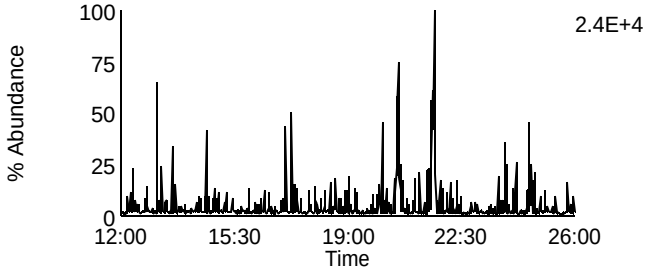


Homologue Group: Tetras

Data File Name: U140513A_05
Date Acquired: 5/13/2014
Sample Description: Blank Blank-40456 - CVS

Lab Sample ID: BLANK-40456
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_05 G1 C1 - 303.9016
Blank Blank-40456 - CVS



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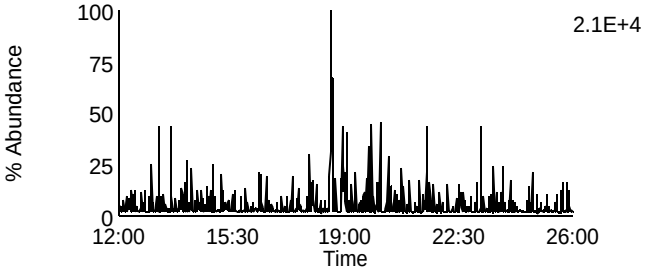

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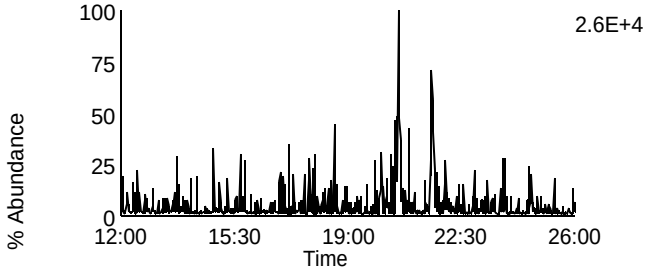

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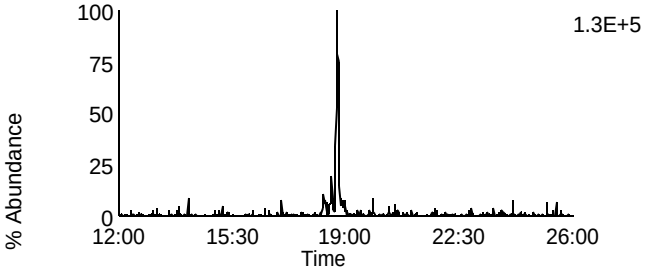

Data File: U140513A_05 G1 C3 - 315.9418
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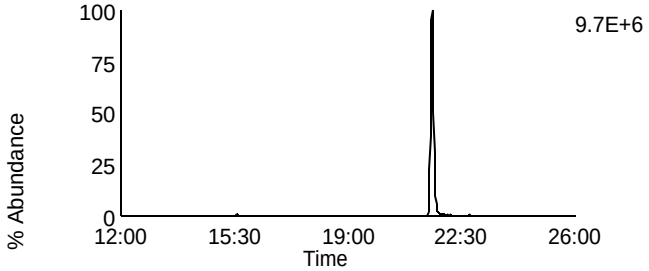
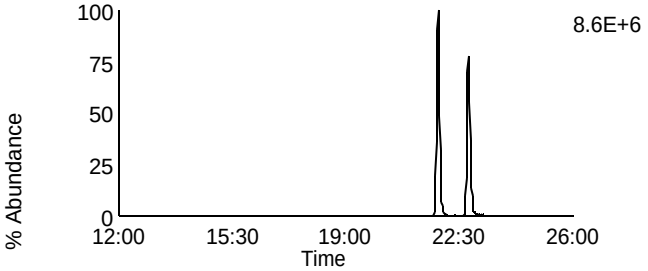


Data File: U140513A_05 G1 C10 - 331.9367
Blank Blank-40456 - CVS



Data File: U140513A_05 G1 C4 - 317.9389
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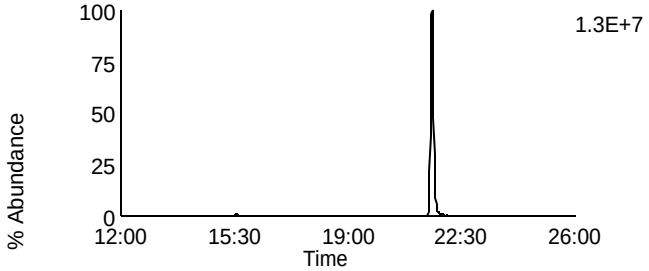

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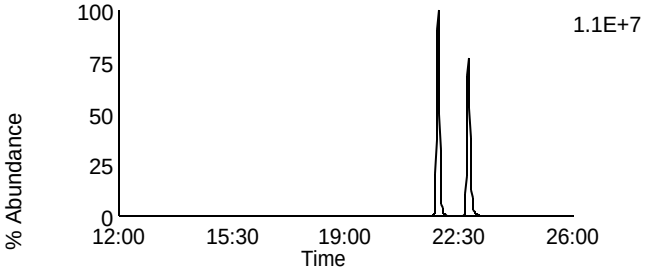

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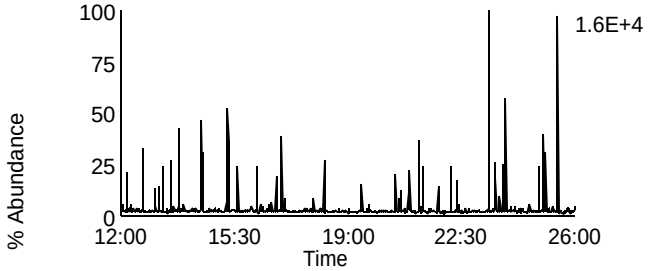

Data File: U140513A_05 G1 C5 - 318.9792
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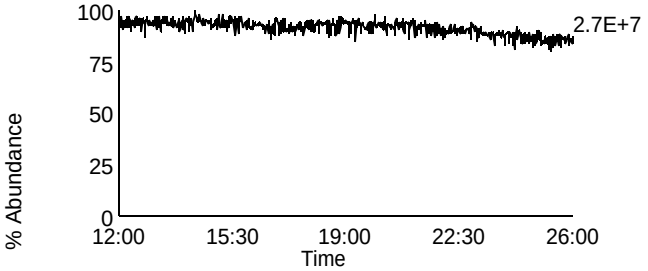
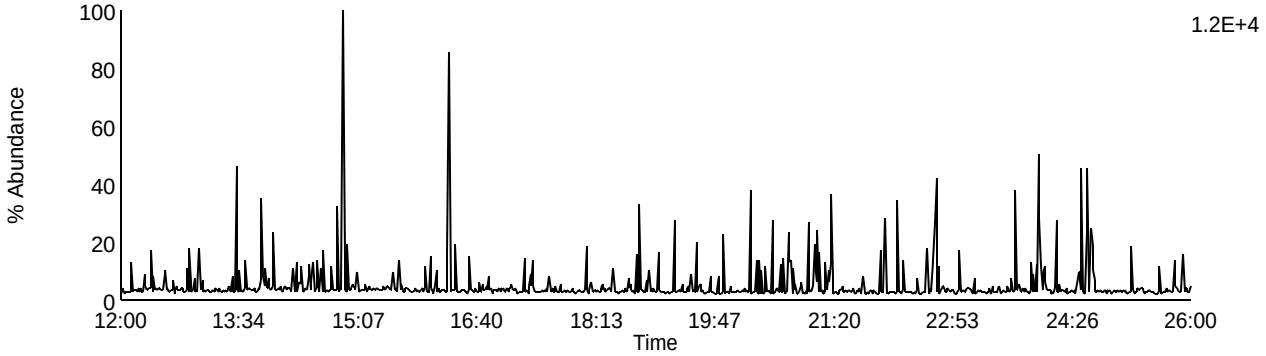


Homologue Group: Penta & Cleanup

Data File Name: U140513A_05	Lab Sample ID: BLANK-40456
Date Acquired: 5/13/2014	Client Sample ID:
Sample Description: Blank Blank-40456 - CVS	Instrument: 10MSHR06 (U)

Data File: U140513A_05 G1 C12 - 339.8597
Blank Blank-40456 - CVS



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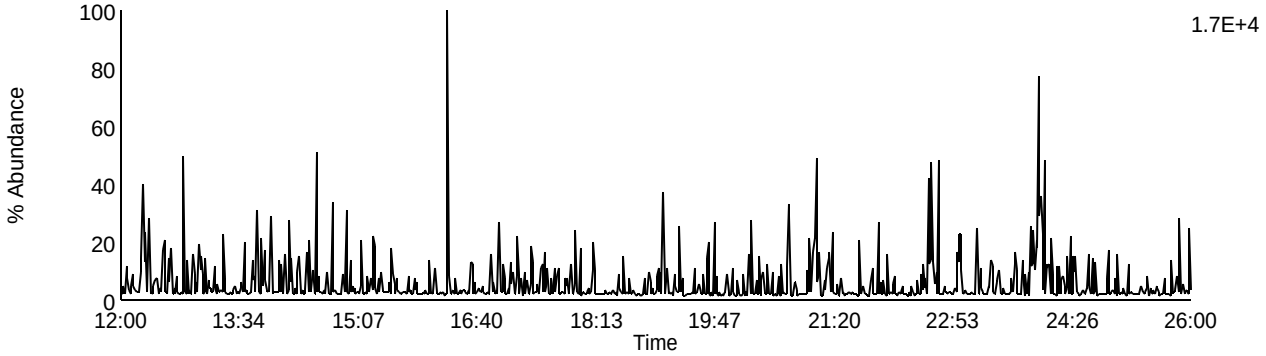

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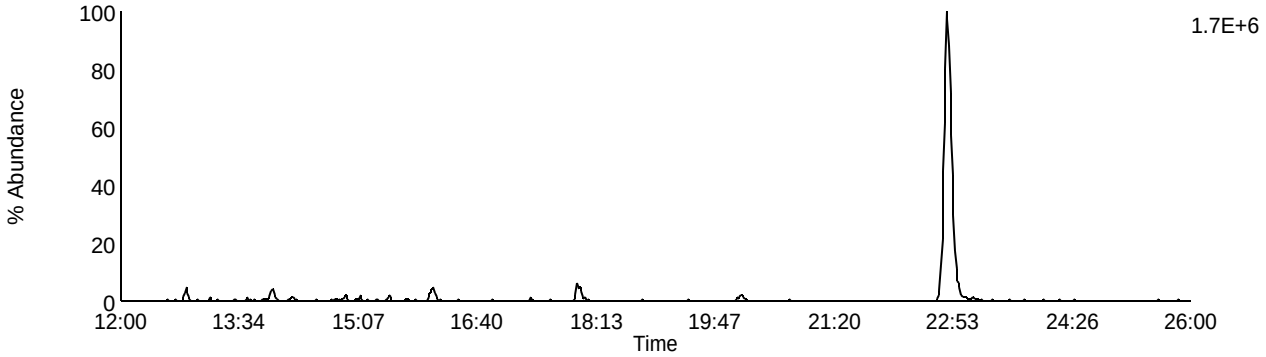

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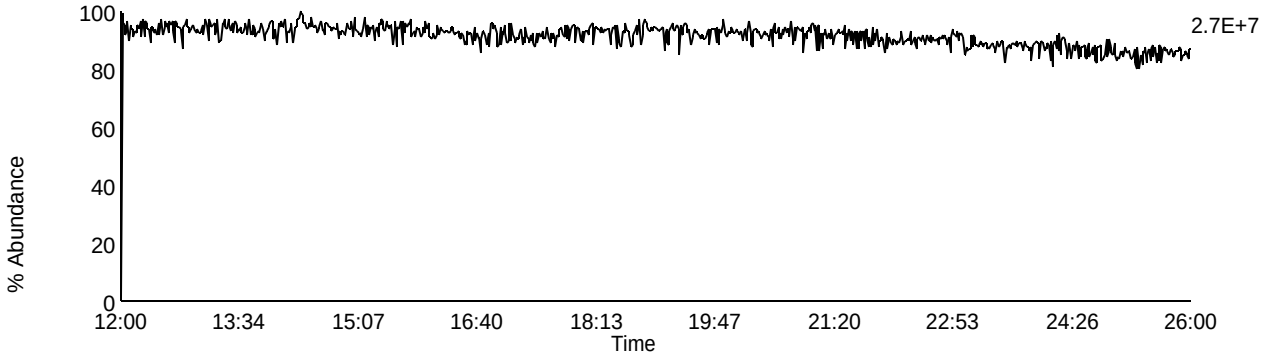

Homologue Group: Pentas

Data File Name: U140513A_05
Date Acquired: 5/13/2014
Sample Description: Blank Blank-40456 - CVS

Lab Sample ID: BLANK-40456
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_05 G2 C1 - 339.8597
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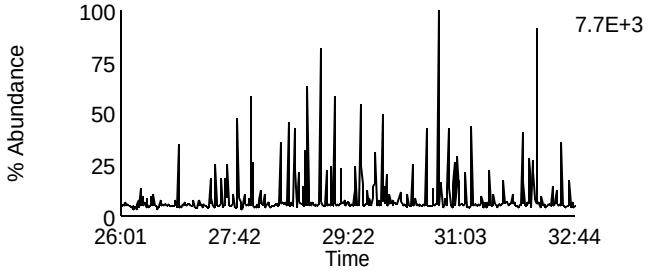

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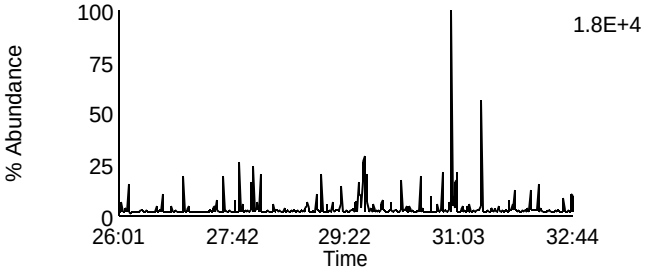

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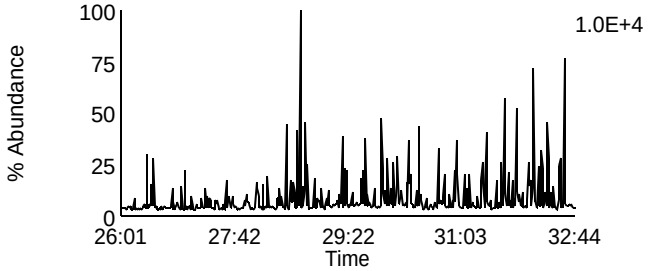

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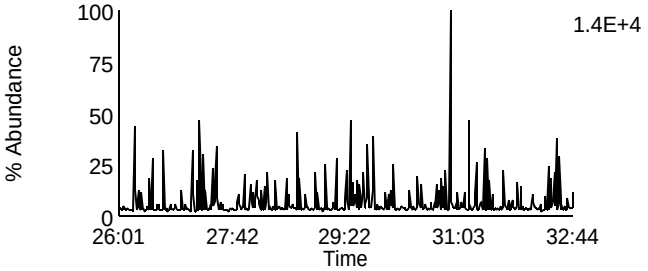

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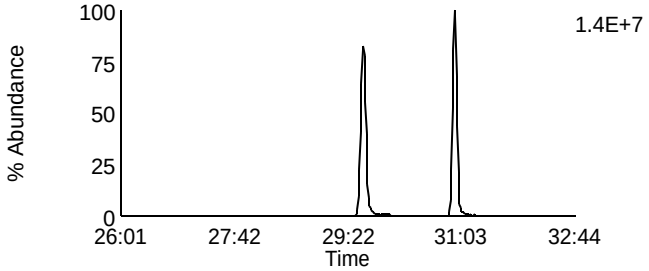
Blank Blank-40456 - CVS



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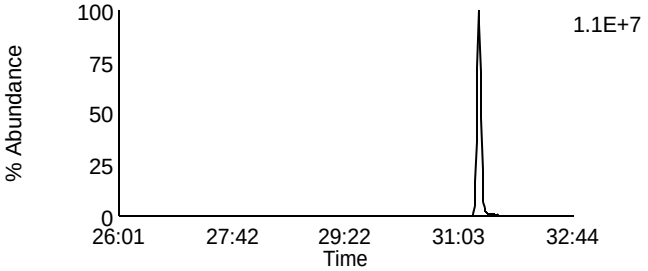
Blank Blank-40456 - CVS



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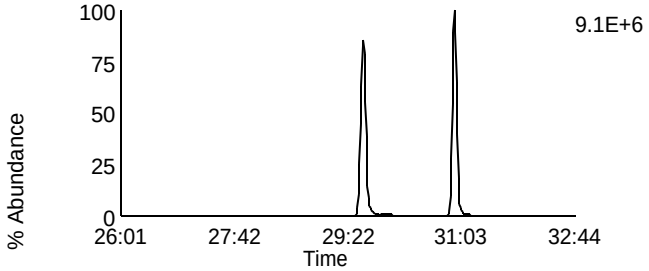

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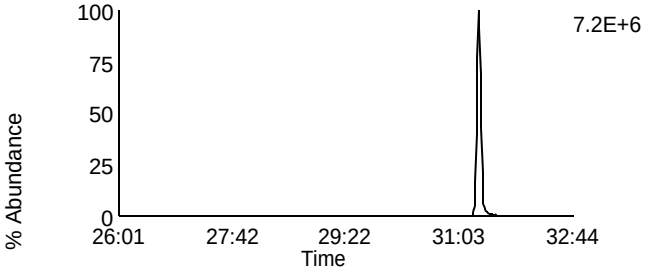

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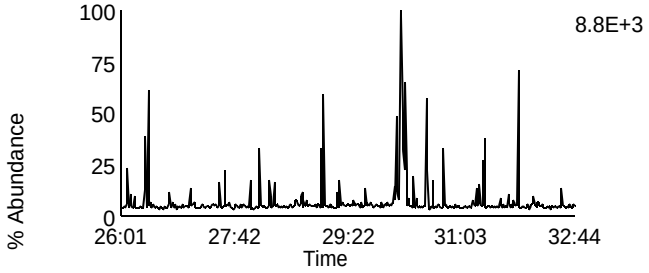

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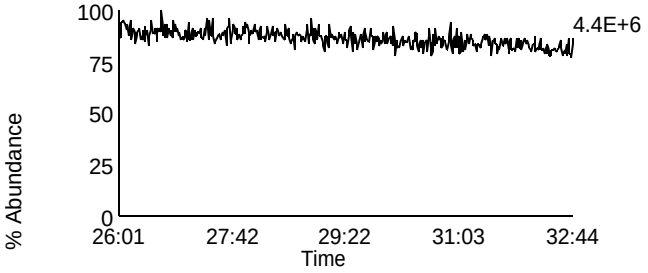
Blank Blank-40456 - CVS

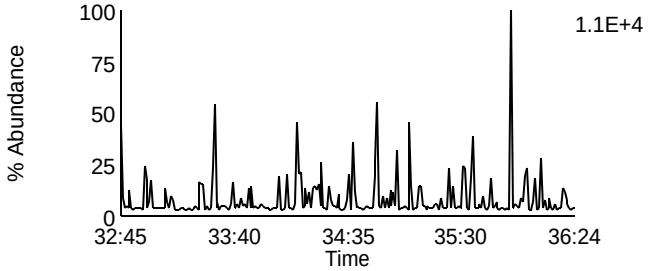


Homologue Group: Hexas

Data File Name: U140513A_05
Date Acquired: 5/13/2014
Sample Description: Blank Blank-40456 - CVS

Lab Sample ID: BLANK-40456
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_05 G3 C1 - 373.8207
Blank Blank-40456 - CVS



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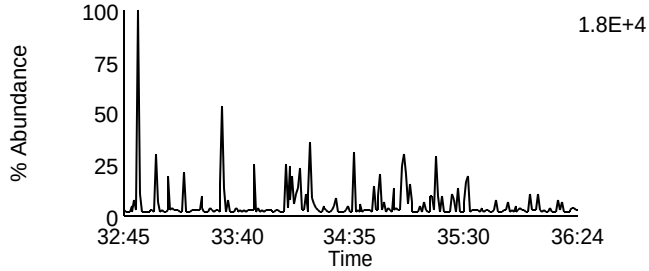

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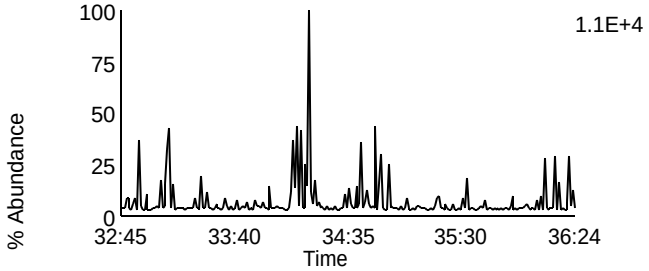

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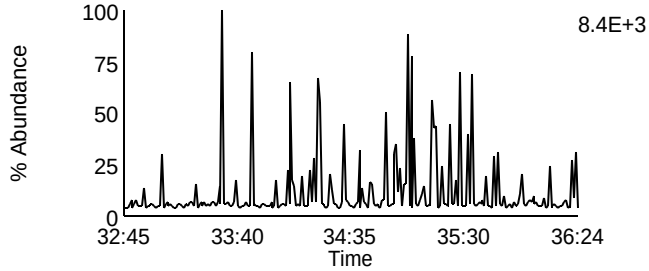
Blank Blank-40456 - CVS



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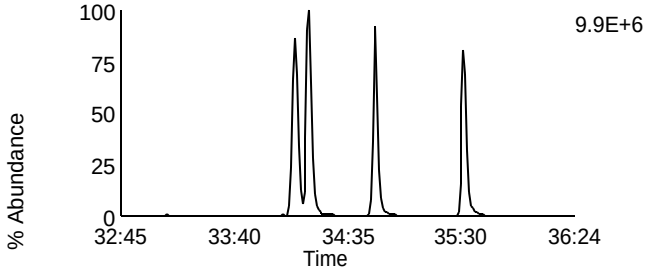

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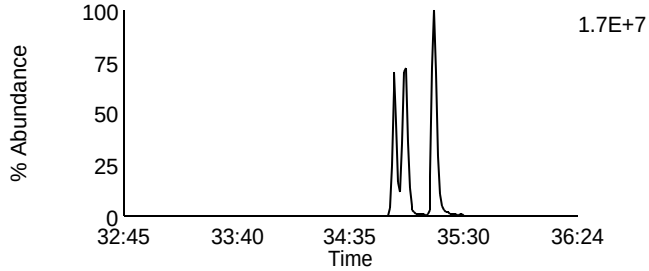

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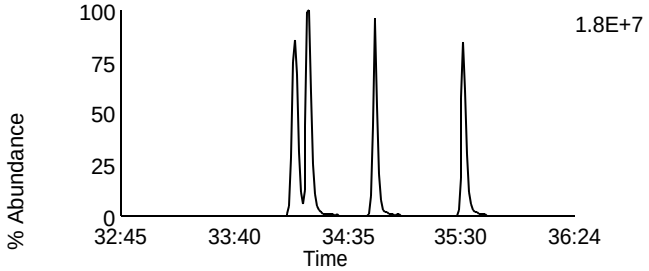

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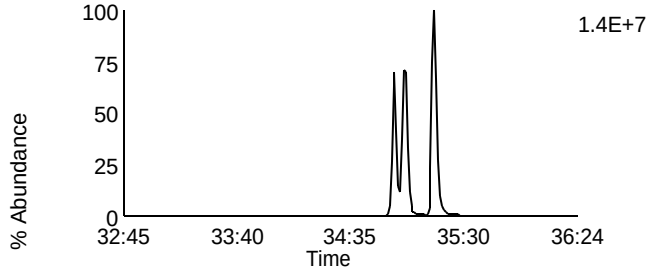

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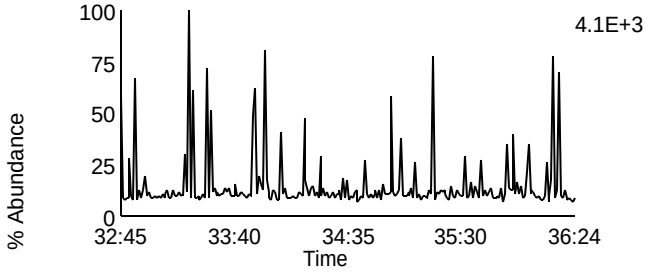

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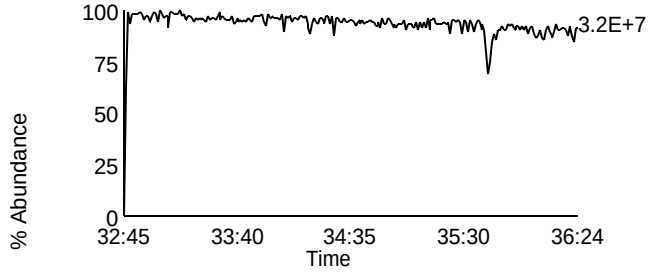

Homologue Group: Heptas

Data File Name: U140513A_05
Date Acquired: 5/13/2014
Sample Description: Blank Blank-40456 - CVS

Lab Sample ID: BLANK-40456
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_05 G4 C3 - 407.7818
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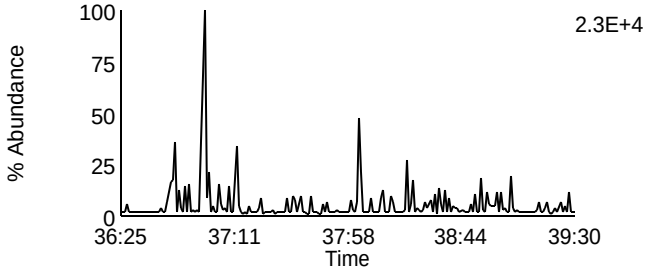

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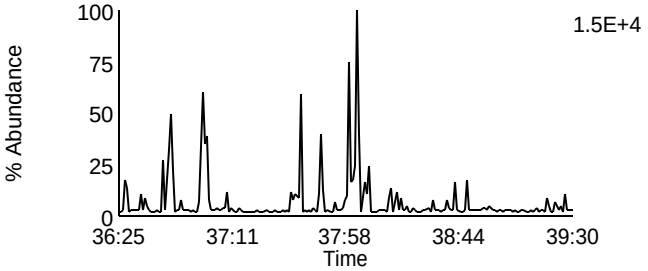

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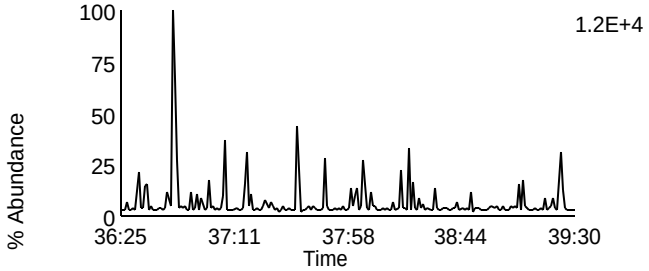

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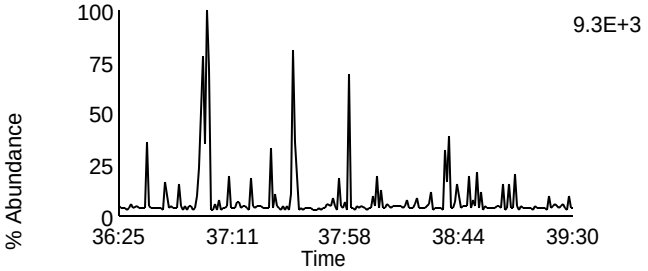

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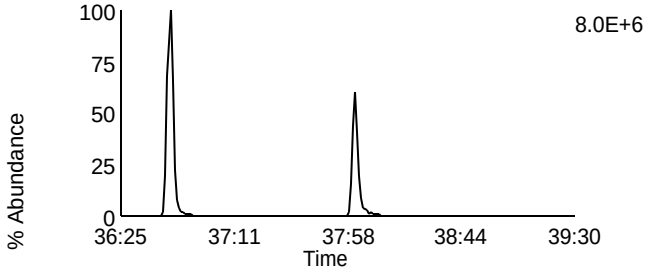

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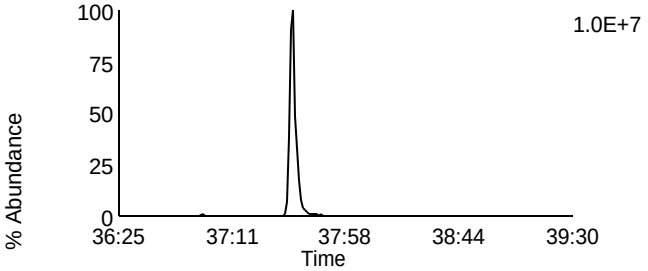
Blank Blank-40456 - CVS



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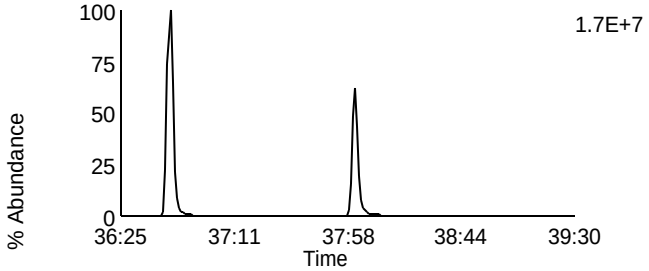
Blank Blank-40456 - CVS



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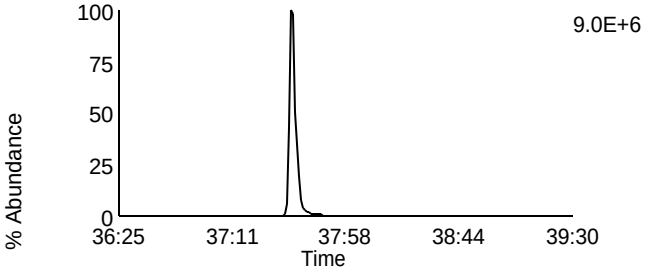

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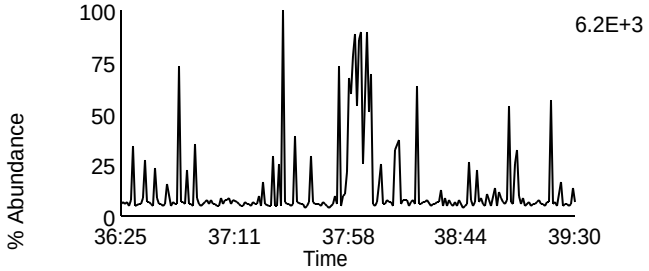

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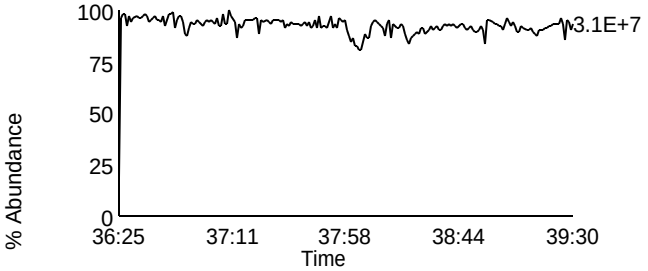
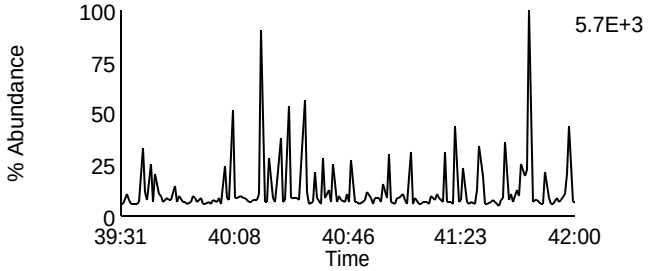


Homologue Group: Octas

Data File Name: U140513A_05
Date Acquired: 5/13/2014
Sample Description: Blank Blank-40456 - CVS

Lab Sample ID: BLANK-40456
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140513A_05 G5 C4 - 441.7428
Blank Blank-40456 - CVS



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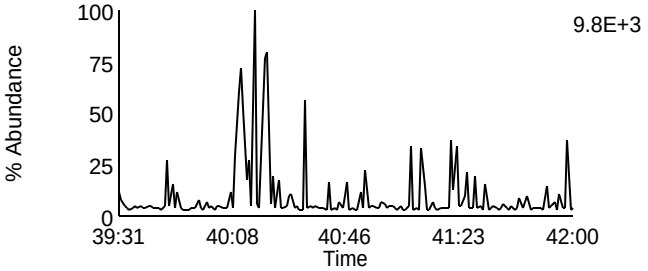

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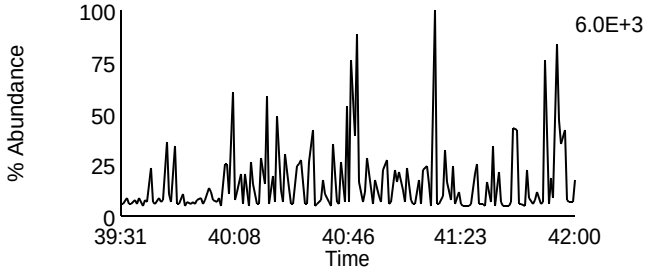

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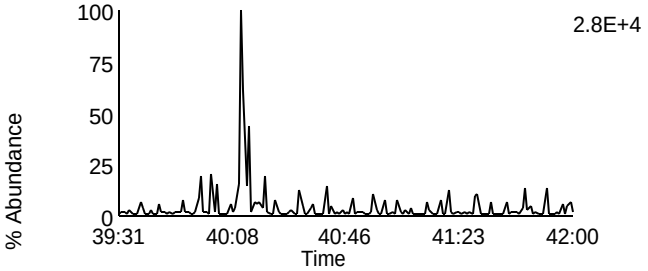
Blank Blank-40456 - CVS



Data File: U140513A_05 G5 C11 - 469.7779
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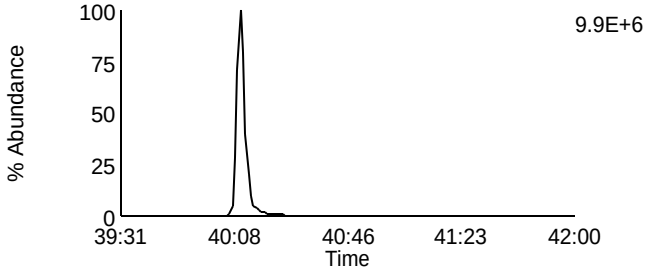

Data File: U140513A_05 G5 C11 - 469.7779
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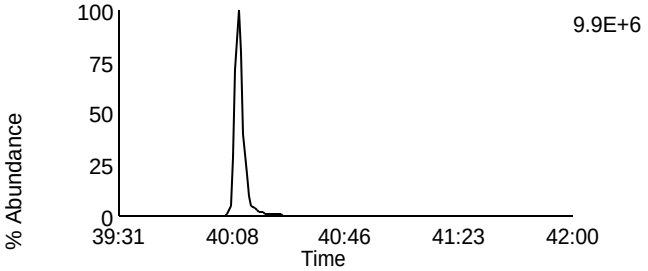

Data File: U140513A_05 G5 C12 - 471.7749
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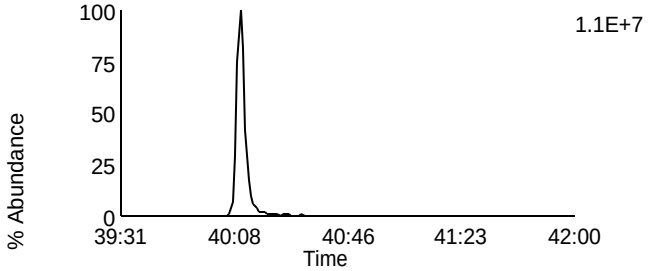

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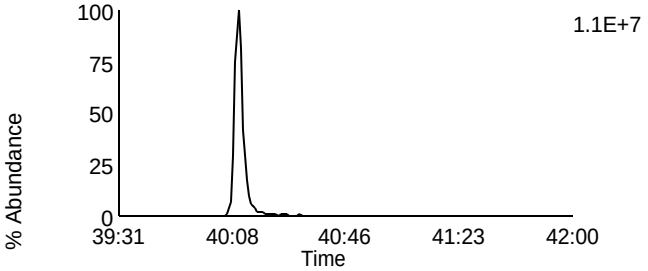

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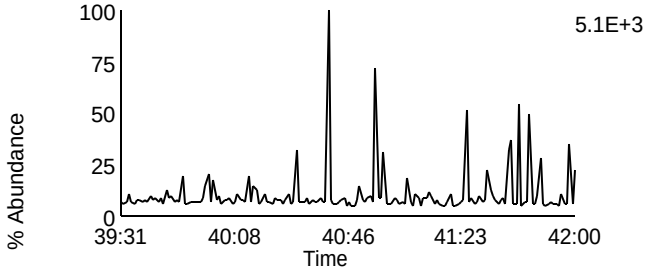
Blank Blank-40456 - CVS



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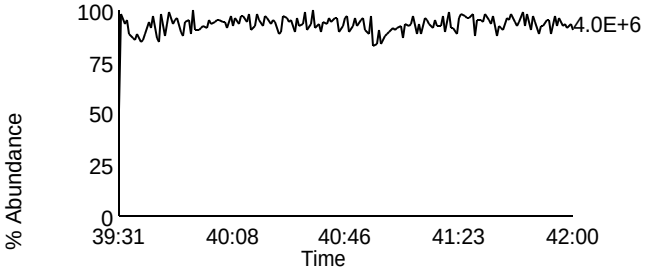
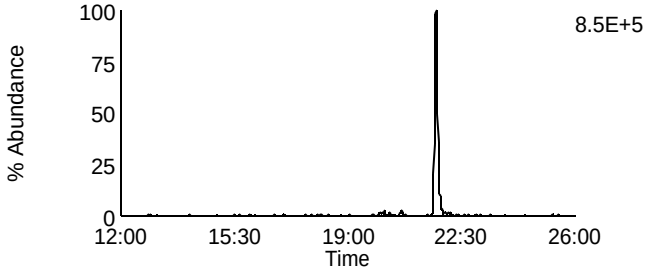


Homologue Group: Tetras

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G1 C1 - 303.9016
LCS LCS-40419 - SMT



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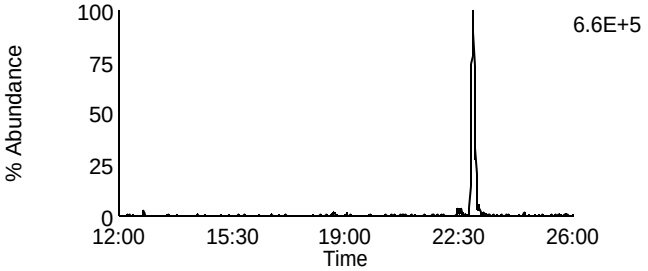
LCS LCS-40419 - SMT



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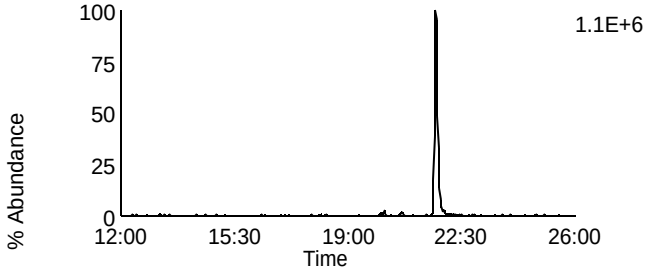

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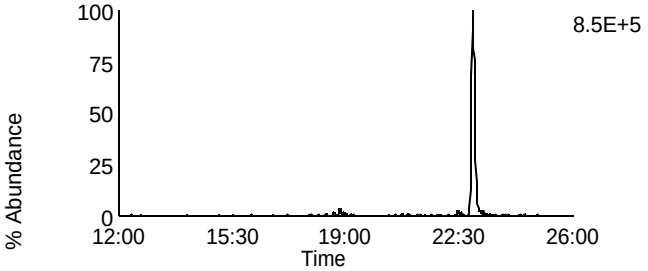
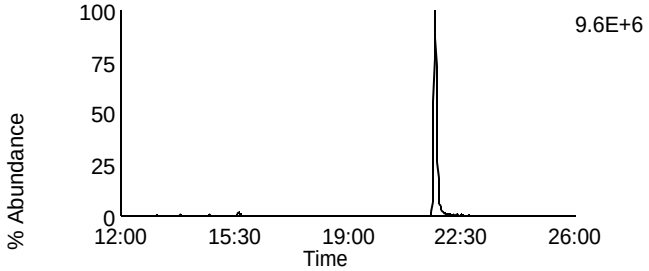


Data File: U140512A_02 G1 C3 - 315.9418
LCS LCS-40419 - SMT



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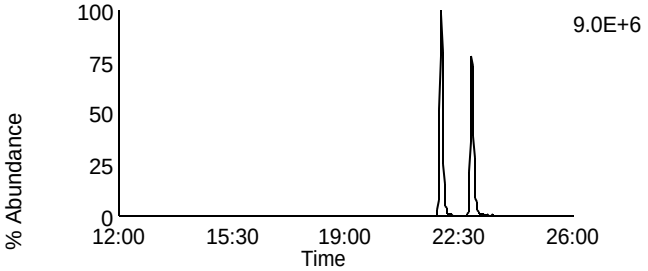
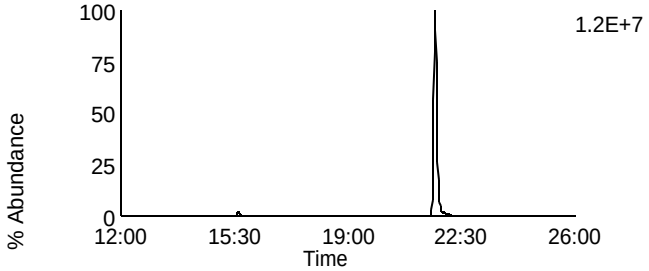
LCS LCS-40419 - SMT



Data File: U140512A_02 G1 C4 - 317.9389
LCS LCS-40419 - SMT



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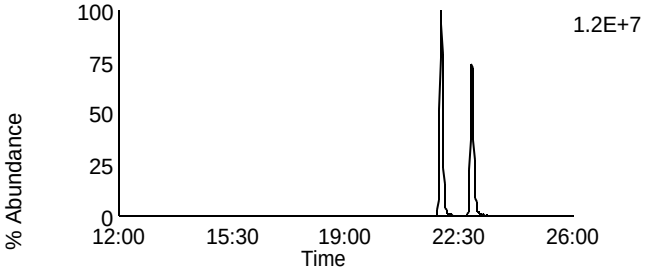
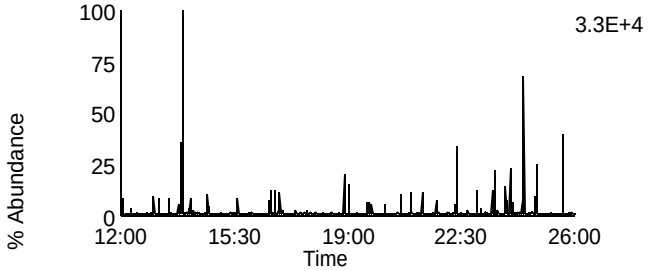
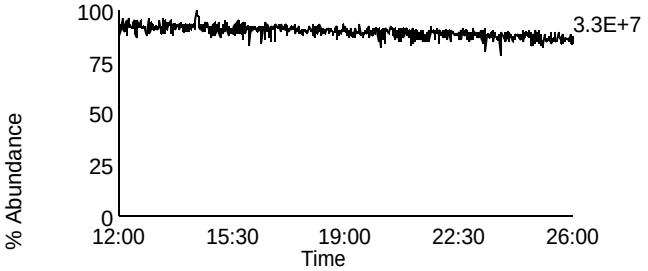
LCS LCS-40419 - SMT



Data File: U140512A_02 G1 C14 - 375.8364
LCS LCS-40419 - SMT



Data File: U140512A_02 G1 C5 - 318.9792
LCS LCS-40419 - SMT

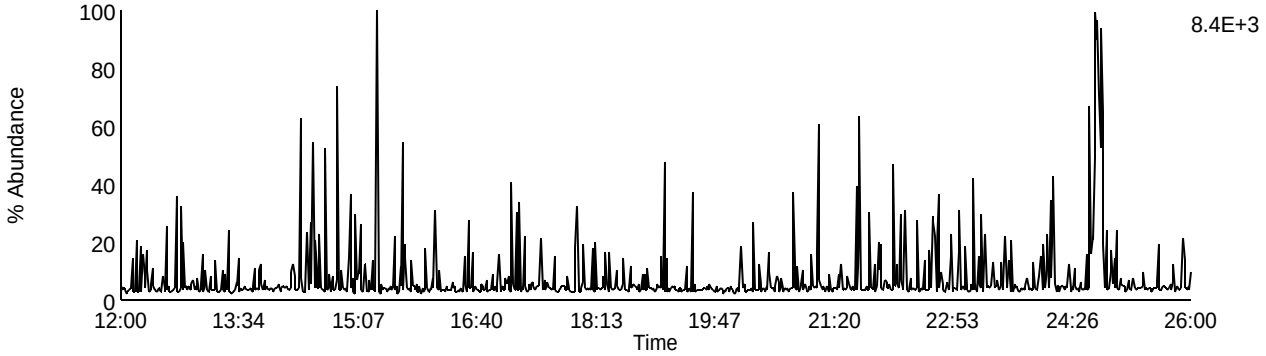


Homologue Group: Penta & Cleanup

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G1 C12 - 339.8597
LCS LCS-40419 - SMT



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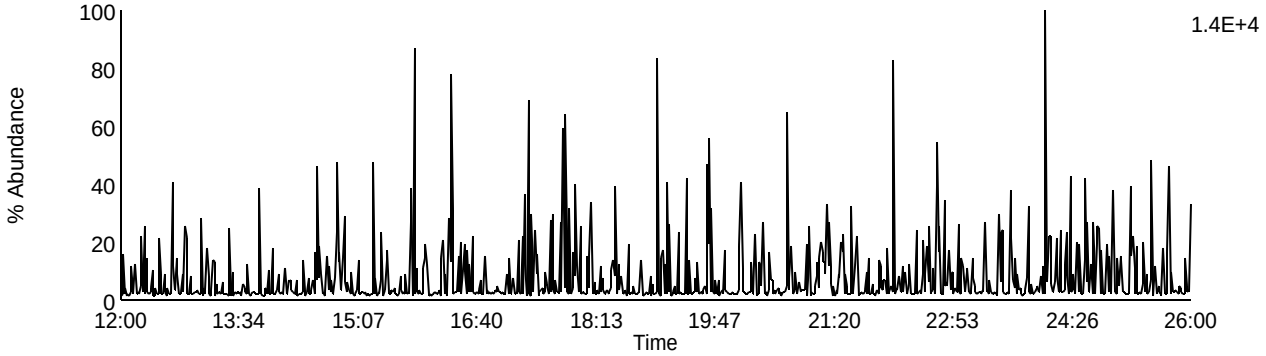
LCS LCS-40419 - SMT



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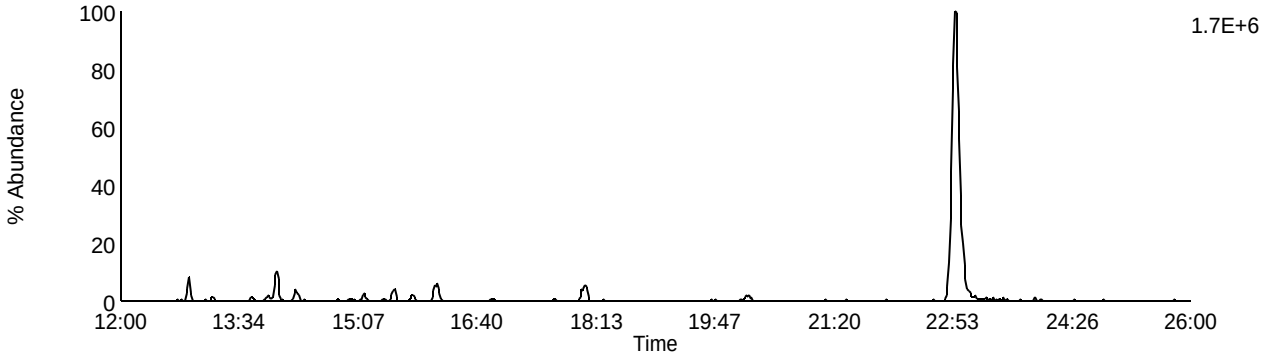
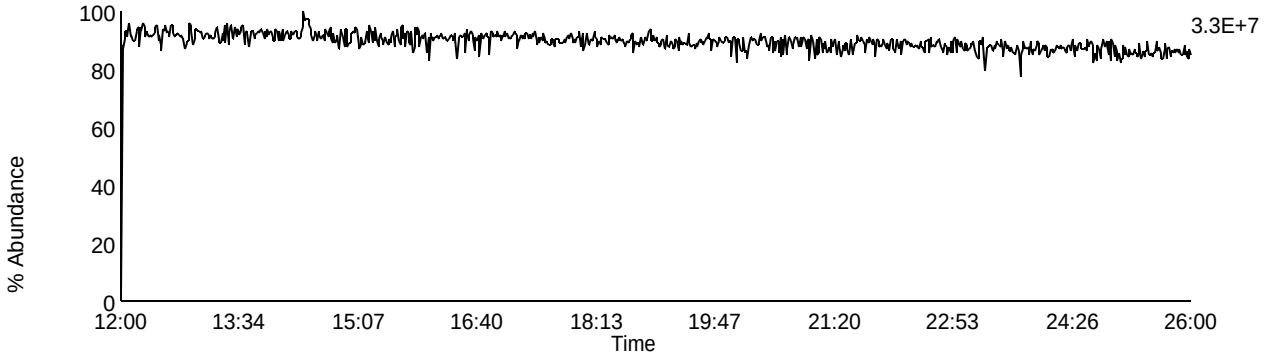
LCS LCS-40419 - SMT



Data File: U140512A_02 G1 C5 - 318.9792
LCS LCS-40419 - SMT

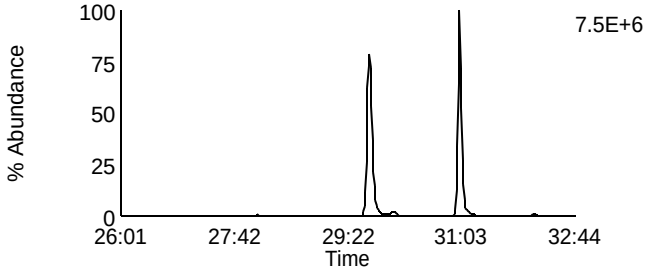


Homologue Group: Pentas

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G2 C1 - 339.8597
LCS LCS-40419 - SMT



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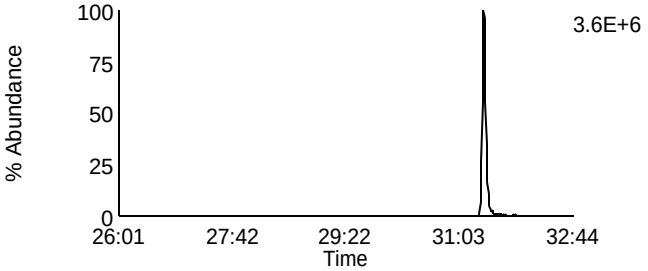
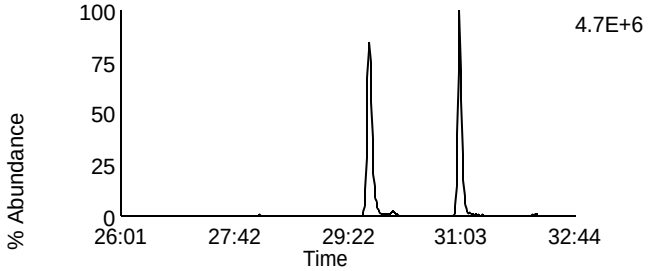
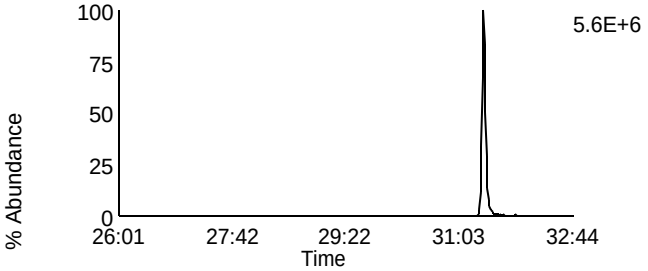
LCS LCS-40419 - SMT



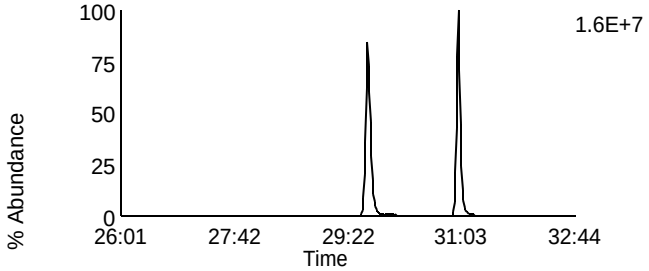
Data File: U140512A_02 G2 C2 - 341.8567
LCS LCS-40419 - SMT



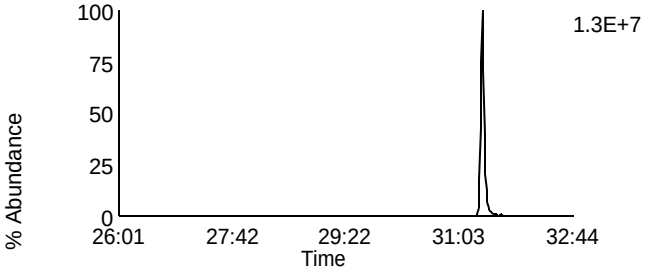
Data File: U140512A_02 G2 C8 - 355.8546
LCS LCS-40419 - SMT



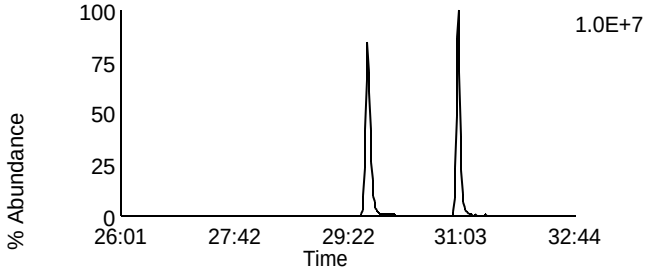
Data File: U140512A_02 G2 C3 - 351.8999
LCS LCS-40419 - SMT



Data File: U140512A_02 G2 C10 - 367.8948
LCS LCS-40419 - SMT



Data File: U140512A_02 G2 C5 - 353.8969
LCS LCS-40419 - SMT



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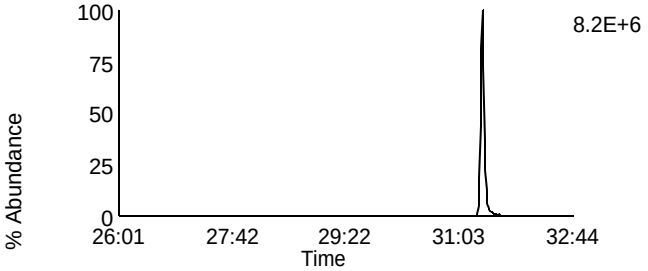
LCS LCS-40419 - SMT



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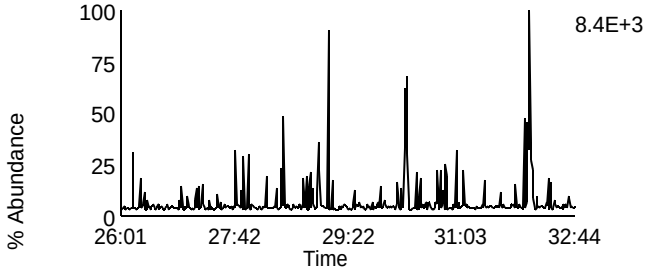
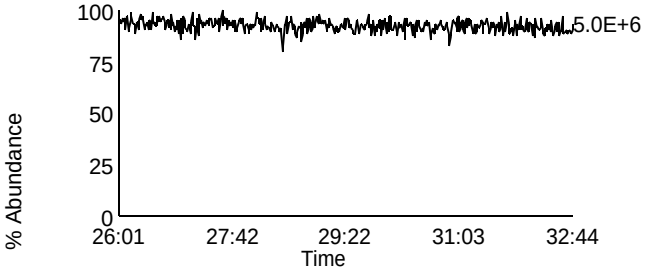
LCS LCS-40419 - SMT



Data File: U140512A_02 G2 C6 - 354.9792
LCS LCS-40419 - SMT

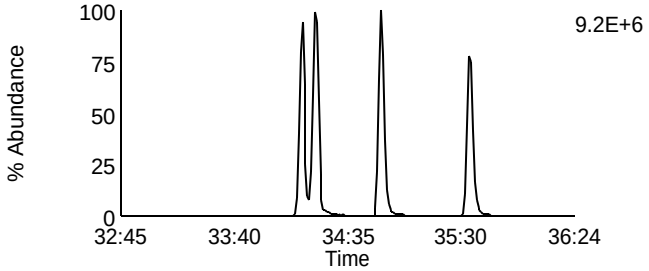


Homologue Group: Hexas

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G3 C1 - 373.8207
LCS LCS-40419 - SMT



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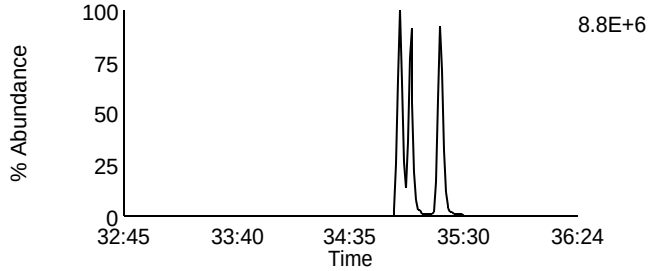
LCS LCS-40419 - SMT



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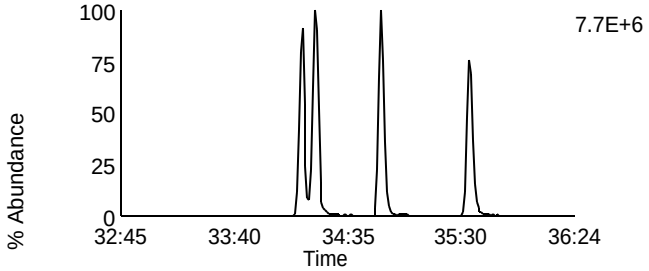
LCS LCS-40419 - SMT



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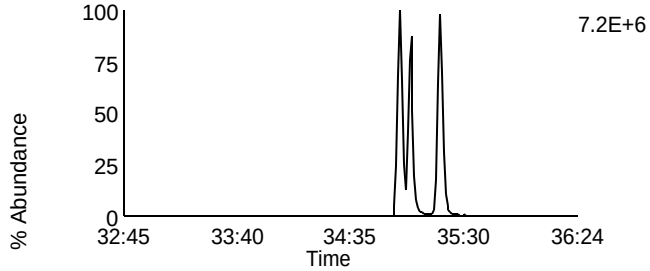
LCS LCS-40419 - SMT



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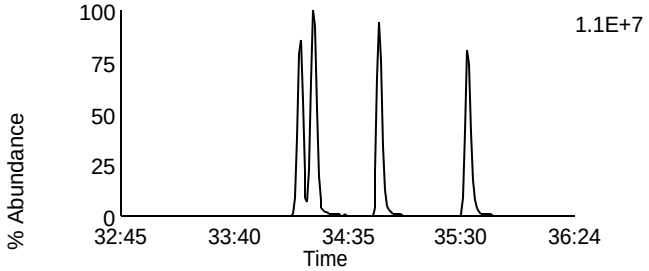
LCS LCS-40419 - SMT



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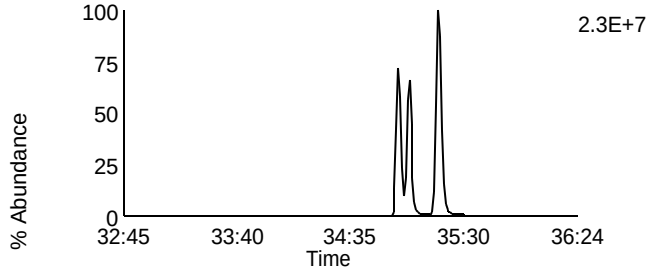
LCS LCS-40419 - SMT



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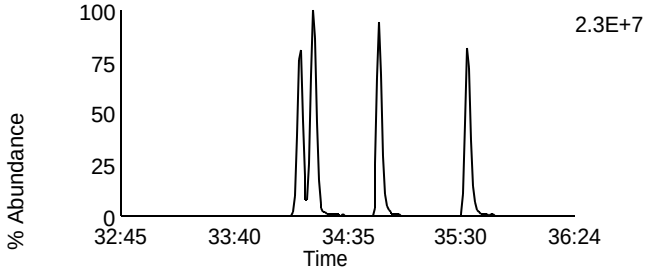

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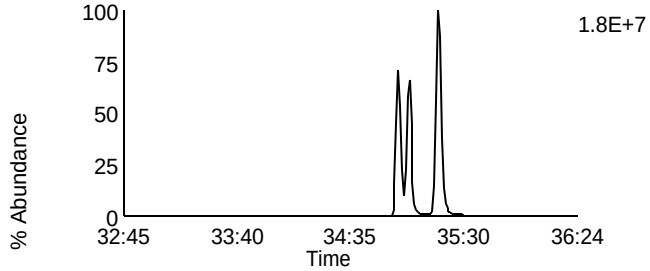

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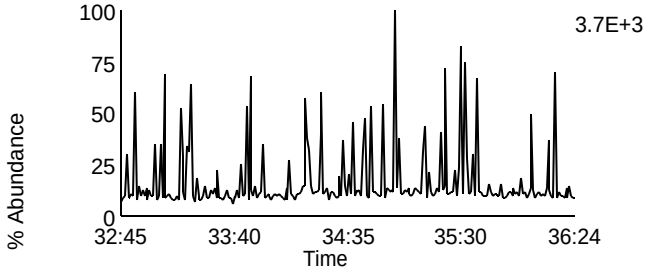
LCS LCS-40419 - SMT



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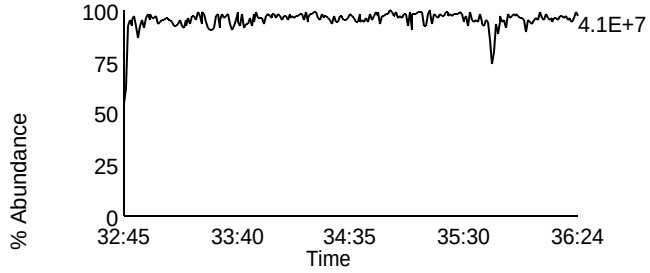
LCS LCS-40419 - SMT

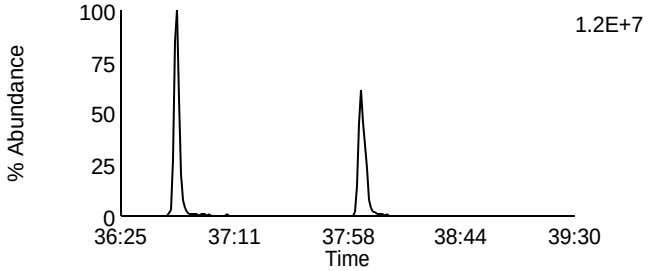


Homologue Group: Heptas

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G4 C3 - 407.7818
LCS LCS-40419 - SMT



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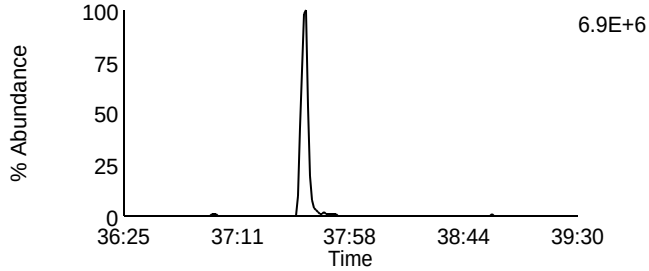
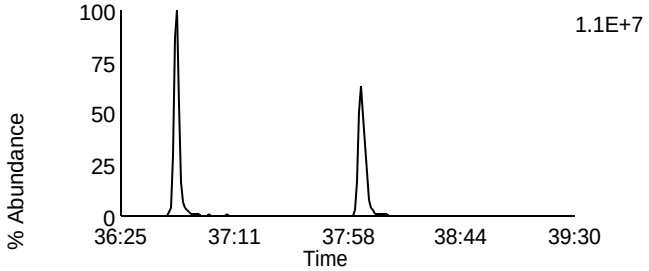
LCS LCS-40419 - SMT



Data File: U140512A_02 G4 C4 - 409.7788
LCS LCS-40419 - SMT



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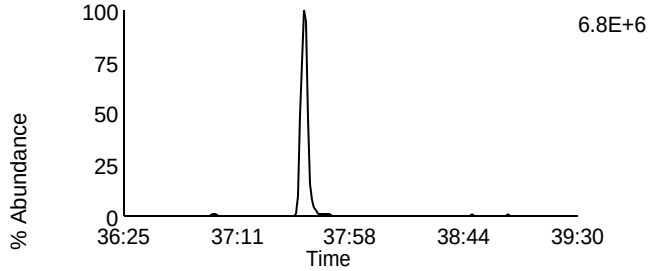
LCS LCS-40419 - SMT



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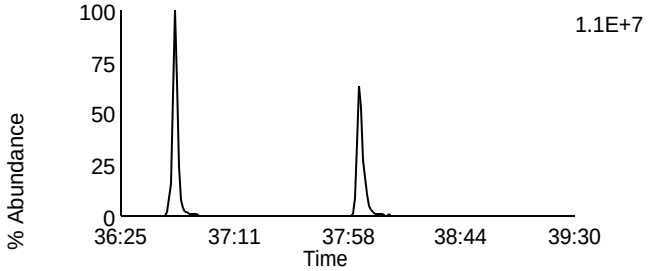
LCS LCS-40419 - SMT



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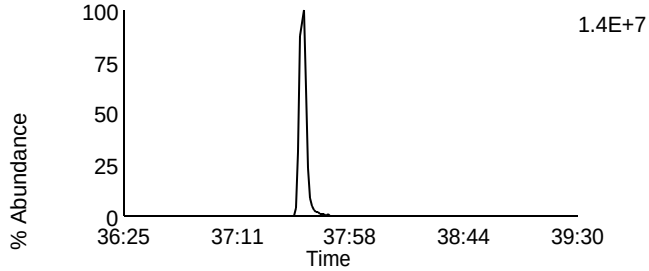
LCS LCS-40419 - SMT



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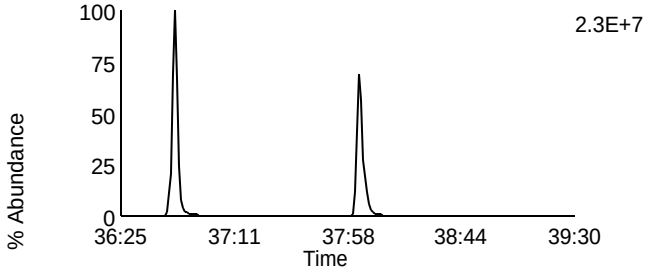
LCS LCS-40419 - SMT



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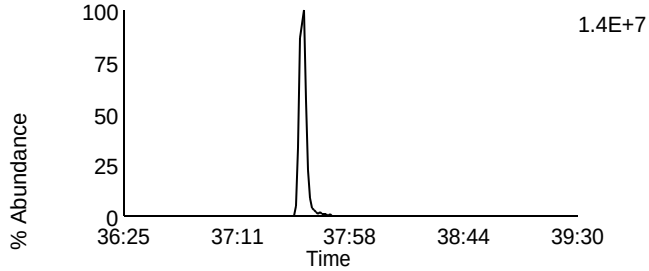

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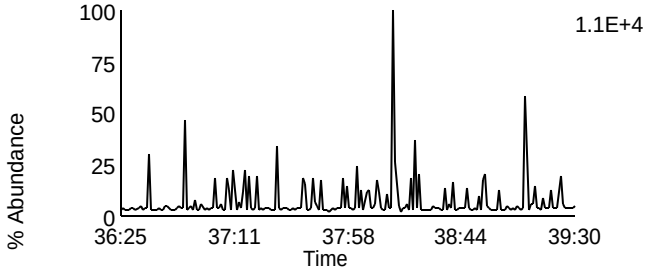
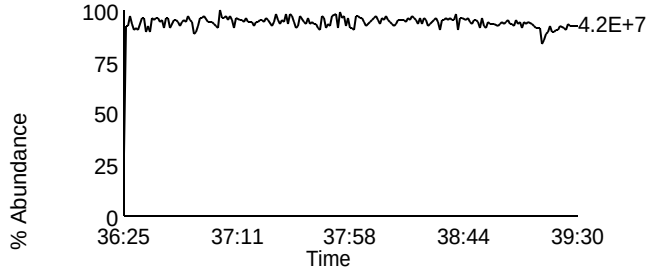
LCS LCS-40419 - SMT



Data File: U140512A_02 G4 C1 - 380.976
LCS LCS-40419 - SMT

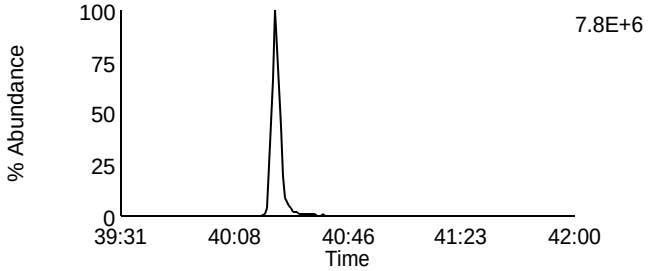


Homologue Group: Octas

Data File Name: U140512A_02
Date Acquired: 5/12/2014
Sample Description: LCS LCS-40419 - SMT

Lab Sample ID: LCS-40419
Client Sample ID: DLCSID
Instrument: 10MSHR06 (U)

Data File: U140512A_02 G5 C4 - 441.7428
LCS LCS-40419 - SMT



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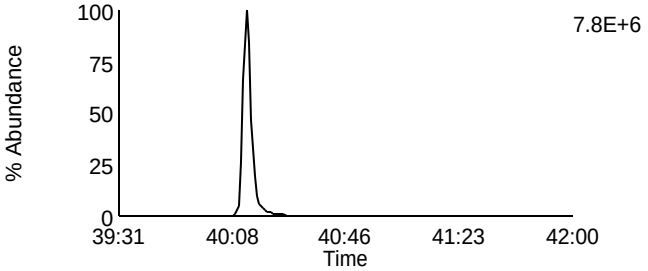
LCS LCS-40419 - SMT



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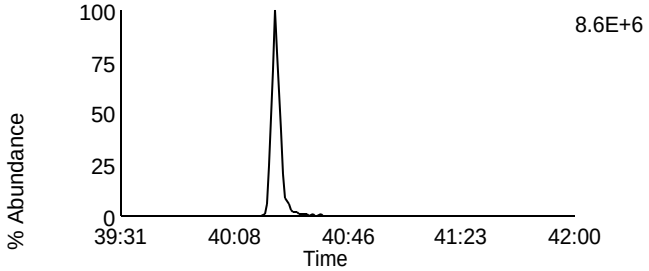
LCS LCS-40419 - SMT



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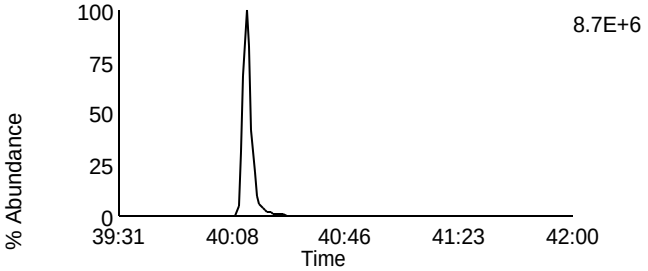
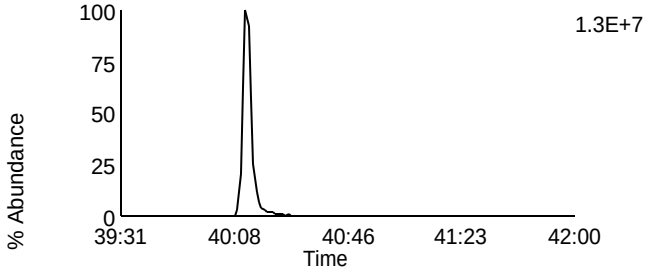
LCS LCS-40419 - SMT



Data File: U140512A_02 G5 C11 - 469.7779
LCS LCS-40419 - SMT



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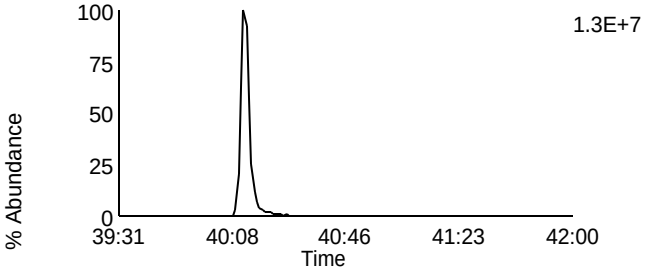
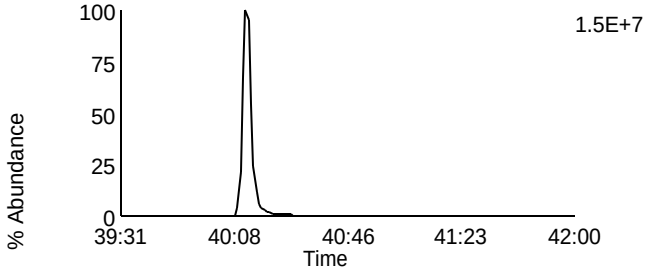
LCS LCS-40419 - SMT



Data File: U140512A_02 G5 C12 - 471.7749
LCS LCS-40419 - SMT



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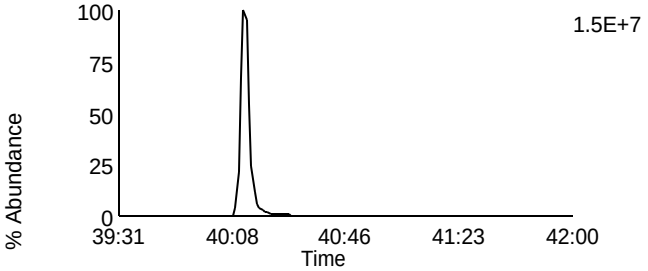
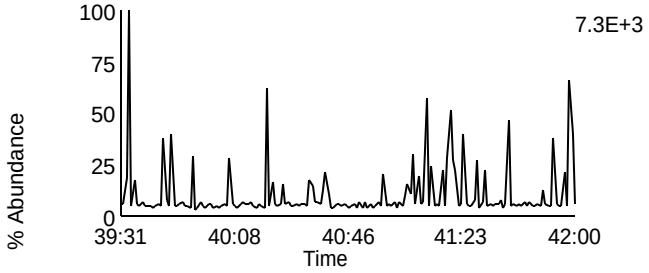
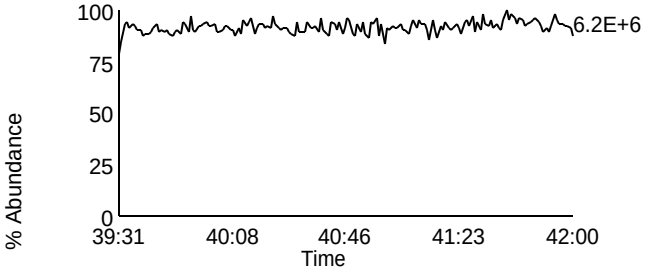
LCS LCS-40419 - SMT



Data File: U140512A_02 G5 C13 - 513.6775
LCS LCS-40419 - SMT



Data File: U140512A_02 G5 C2 - 430.9728
LCS LCS-40419 - SMT

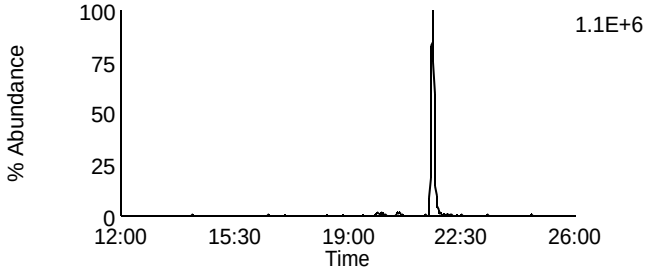


Homologue Group: Tetras

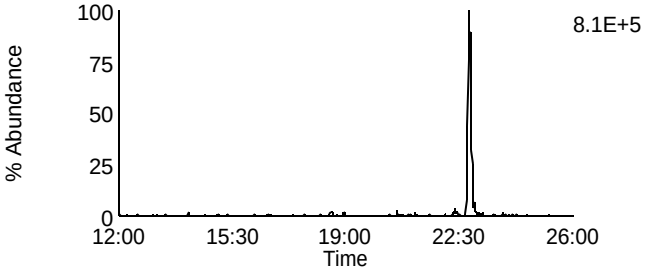
Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

Data File: U140513A_15 G1 C1 - 303.9016
LCS LCS-40457 - CVS



Data File: U140513A_15 G1 C7 - 319.8965
LCS LCS-40457 - CVS



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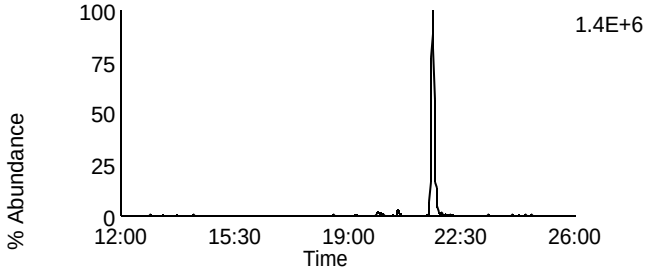
LCS LCS-40457 - CVS



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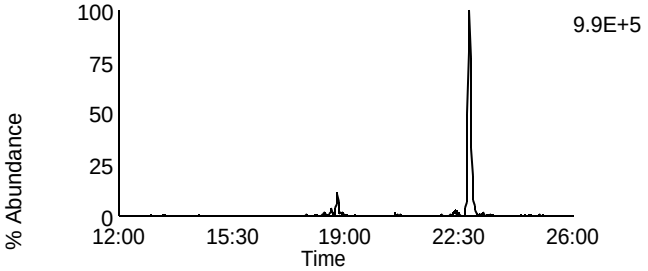
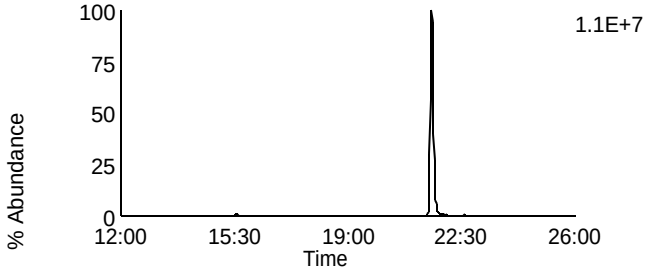
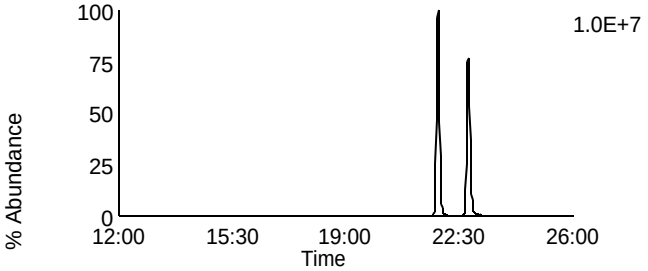
LCS LCS-40457 - CVS



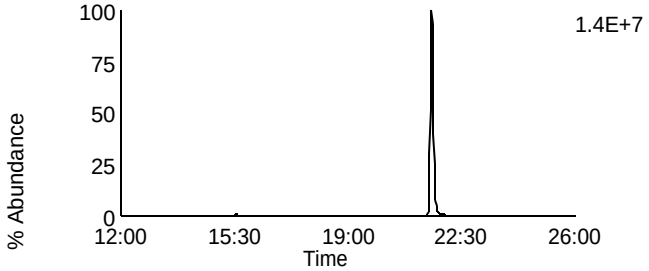
Data File: U140513A_15 G1 C3 - 315.9418
LCS LCS-40457 - CVS



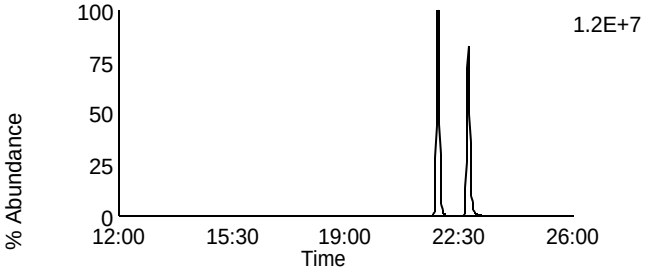
Data File: U140513A_15 G1 C10 - 331.9367
LCS LCS-40457 - CVS



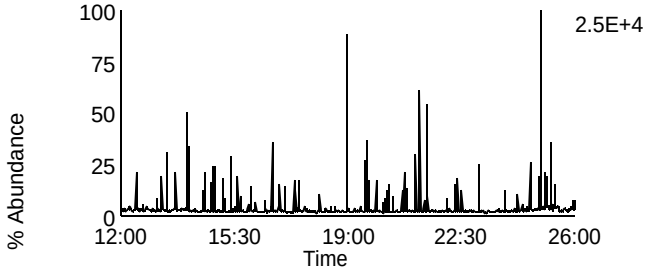
Data File: U140513A_15 G1 C4 - 317.9389
LCS LCS-40457 - CVS



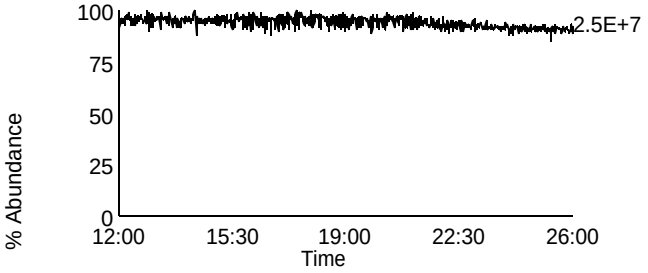
Data File: U140513A_15 G1 C11 - 333.9338
LCS LCS-40457 - CVS



Data File: U140513A_15 G1 C14 - 375.8364
LCS LCS-40457 - CVS



Data File: U140513A_15 G1 C5 - 318.9792
LCS LCS-40457 - CVS

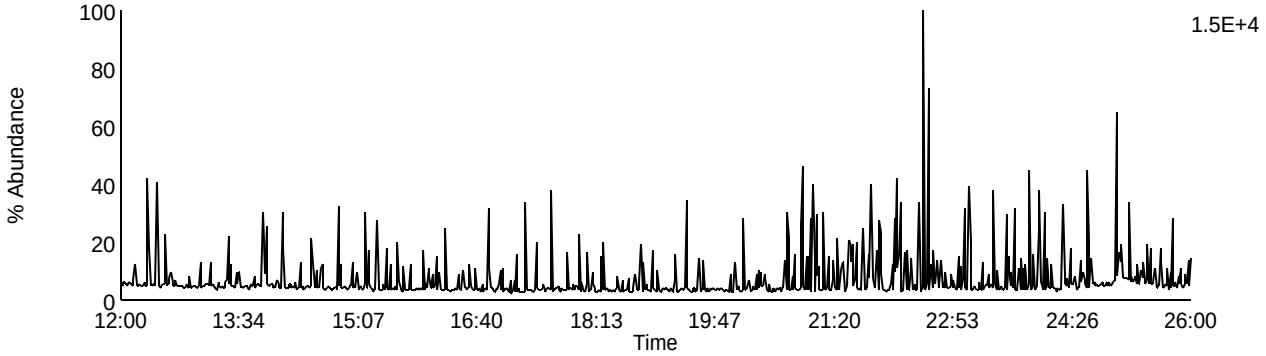


Homologue Group: Penta & Cleanup

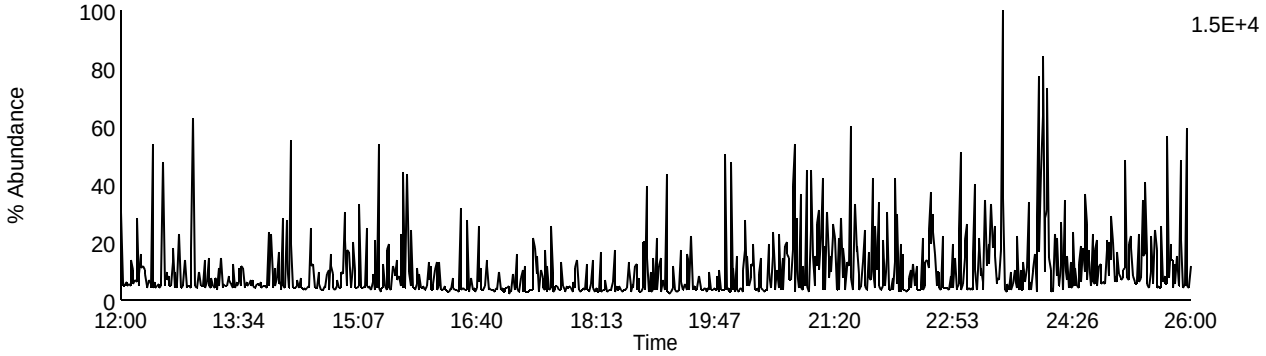
Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

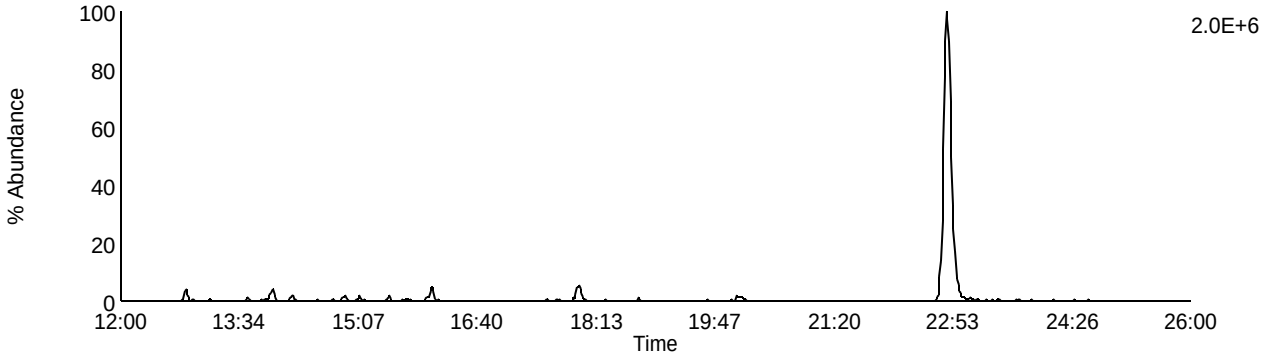
Data File: U140513A_15 G1 C12 - 339.8597
LCS LCS-40457 - CVS



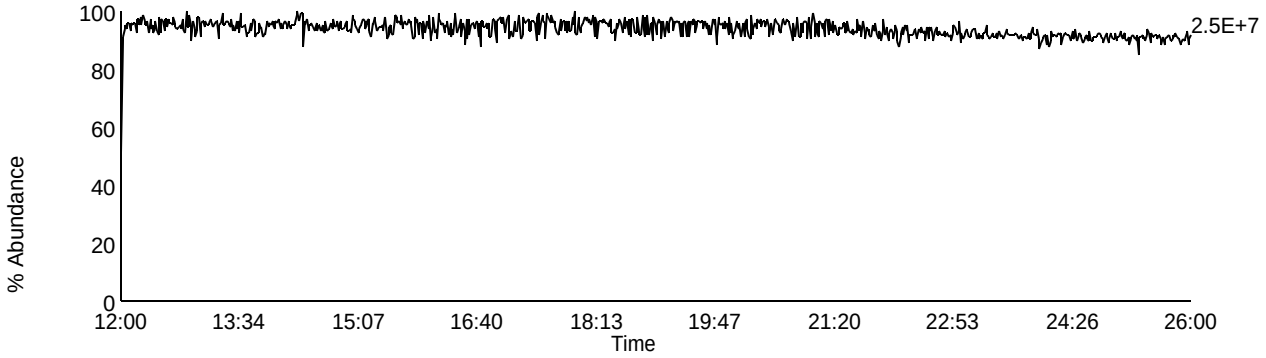
Data File: U140513A_15 G1 C13 - 341.8567
LCS LCS-40457 - CVS



Data File: U140513A_15 G1 C9 - 327.8847
LCS LCS-40457 - CVS



Data File: U140513A_15 G1 C5 - 318.9792
LCS LCS-40457 - CVS

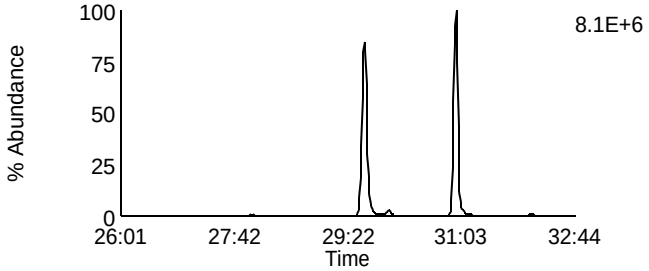


Homologue Group: Pentas

Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

Data File: U140513A_15 G2 C1 - 339.8597
LCS LCS-40457 - CVS



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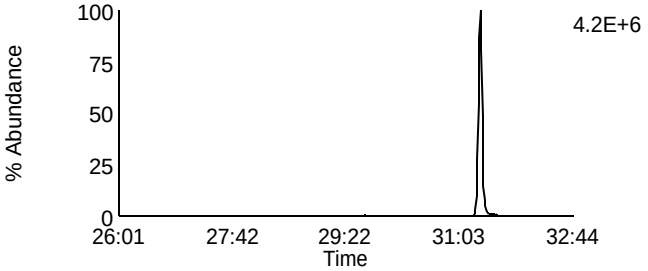
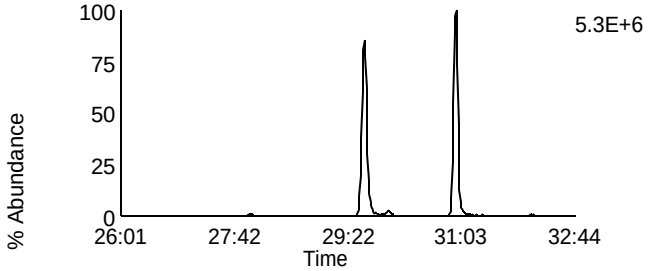
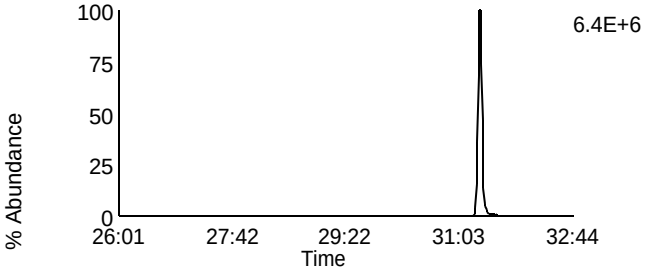
LCS LCS-40457 - CVS



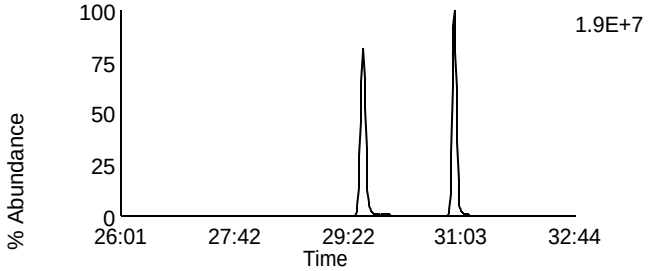
Data File: U140513A_15 G2 C2 - 341.8567
LCS LCS-40457 - CVS



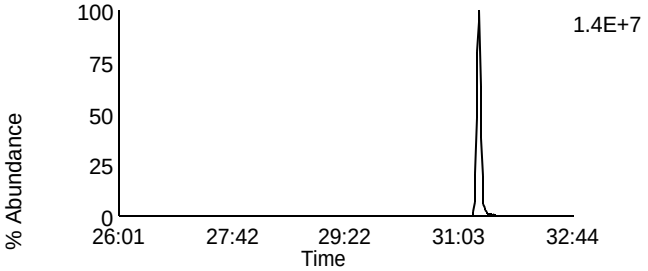
Data File: U140513A_15 G2 C8 - 355.8546
LCS LCS-40457 - CVS



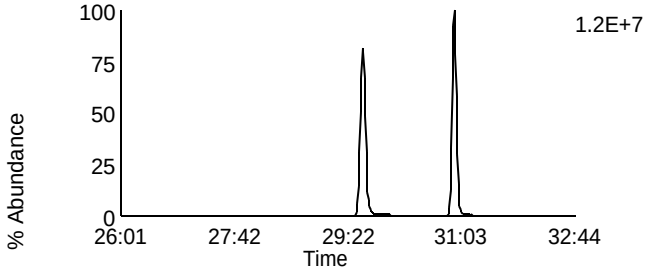
Data File: U140513A_15 G2 C3 - 351.8999
LCS LCS-40457 - CVS



Data File: U140513A_15 G2 C10 - 367.8948
LCS LCS-40457 - CVS



Data File: U140513A_15 G2 C5 - 353.8969
LCS LCS-40457 - CVS



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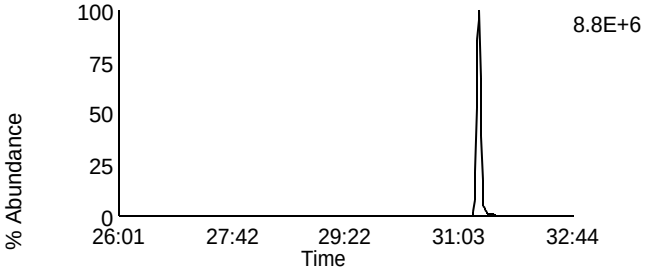
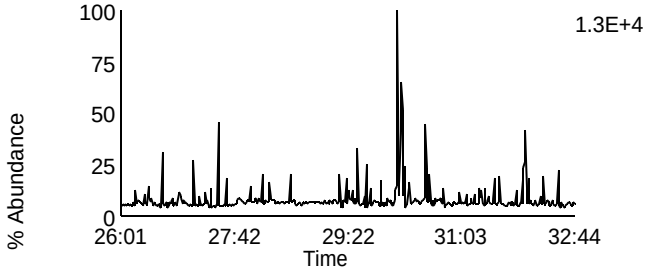
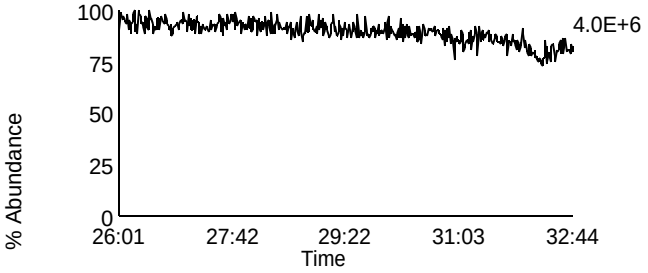
LCS LCS-40457 - CVS



Data File: U140513A_15 G2 C12 - 409.7974
LCS LCS-40457 - CVS



Data File: U140513A_15 G2 C6 - 354.9792
LCS LCS-40457 - CVS

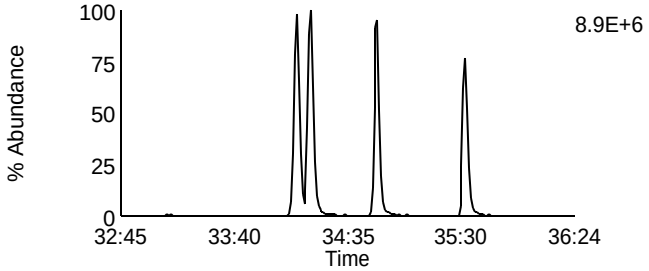


Homologue Group: Hexas

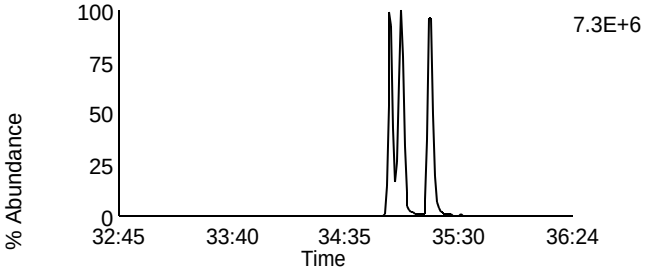
Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

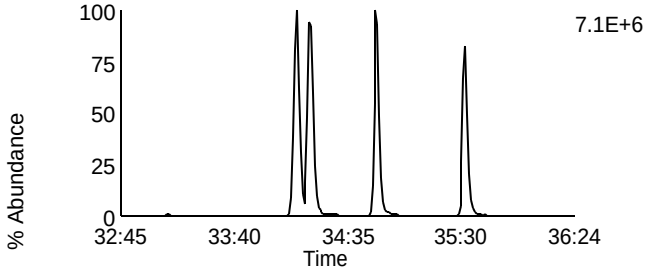
Data File: U140513A_15 G3 C1 - 373.8207
LCS LCS-40457 - CVS



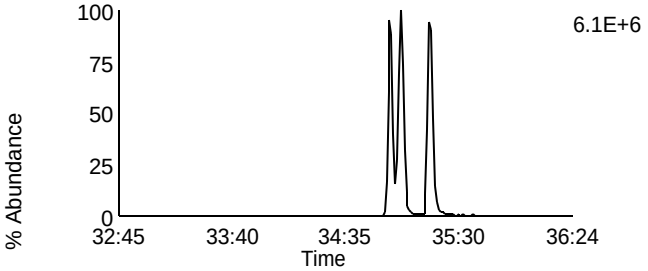
Data File: U140513A_15 G3 C7 - 389.8156
LCS LCS-40457 - CVS



Data File: U140513A_15 G3 C2 - 375.8178
LCS LCS-40457 - CVS



Data File: U140513A_15 G3 C8 - 391.8127
LCS LCS-40457 - CVS



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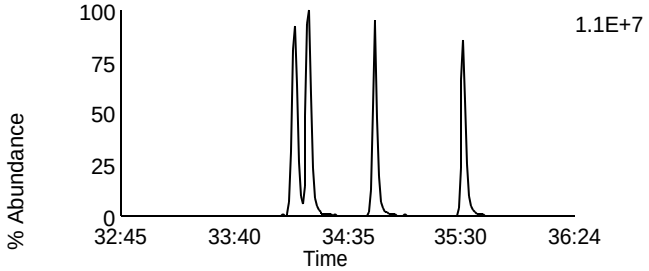
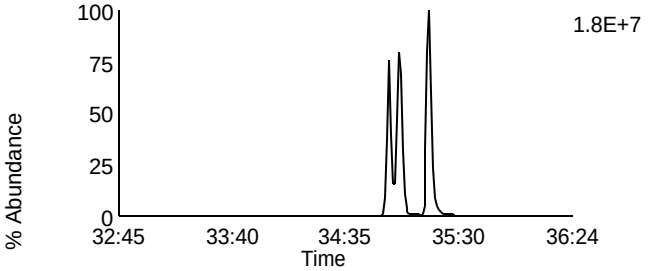
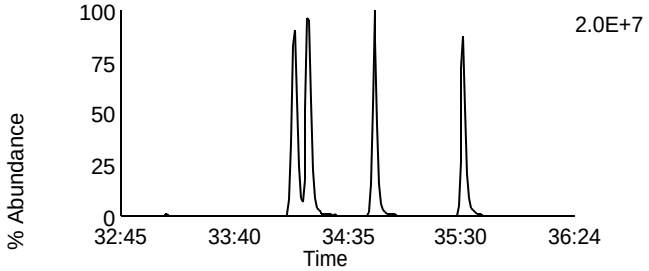
LCS LCS-40457 - CVS



Data File: U140513A_15 G3 C9 - 401.8559
LCS LCS-40457 - CVS



Data File: U140513A_15 G3 C6 - 385.861
LCS LCS-40457 - CVS



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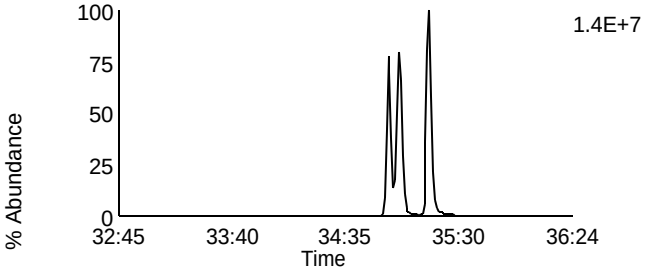
LCS LCS-40457 - CVS



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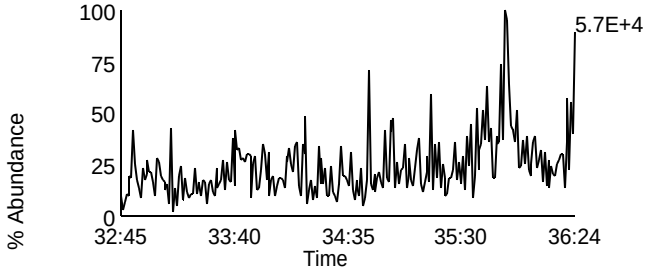
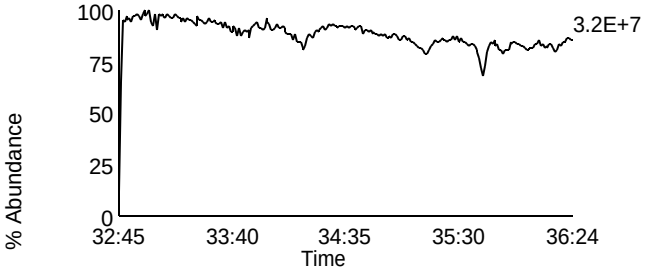
LCS LCS-40457 - CVS



Data File: U140513A_15 G3 C3 - 380.976
LCS LCS-40457 - CVS

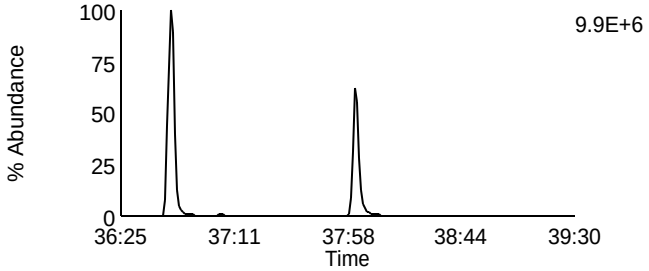


Homologue Group: Heptas

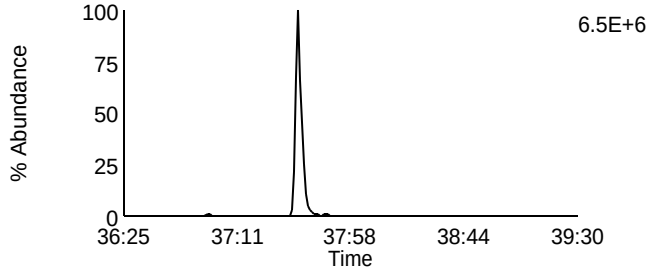
Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

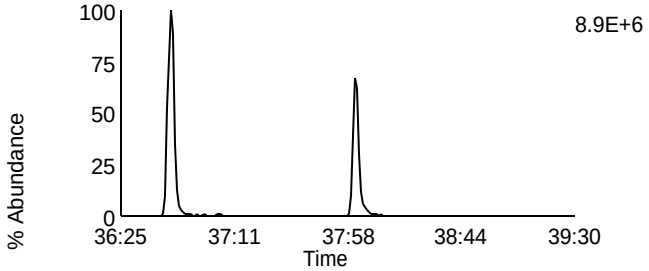
Data File: U140513A_15 G4 C3 - 407.7818
LCS LCS-40457 - CVS



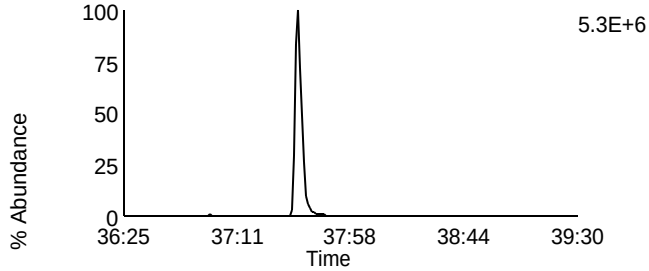
Data File: U140513A_15 G4 C8 - 423.7767
LCS LCS-40457 - CVS



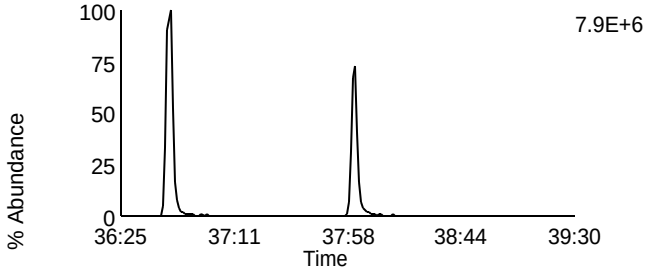
Data File: U140513A_15 G4 C4 - 409.7788
LCS LCS-40457 - CVS



Data File: U140513A_15 G4 C9 - 425.7737
LCS LCS-40457 - CVS



Data File: U140513A_15 G4 C6 - 417.825
LCS LCS-40457 - CVS



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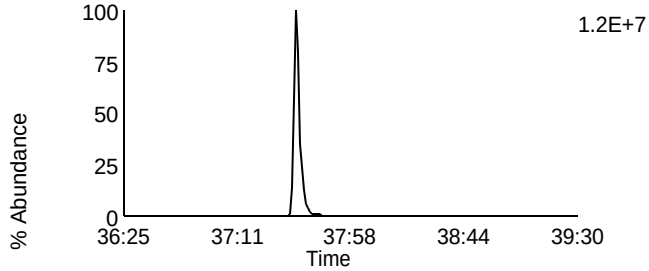
LCS LCS-40457 - CVS



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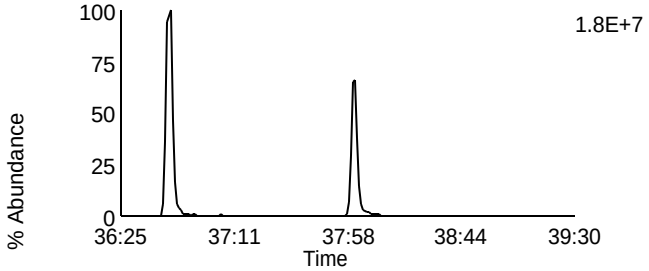
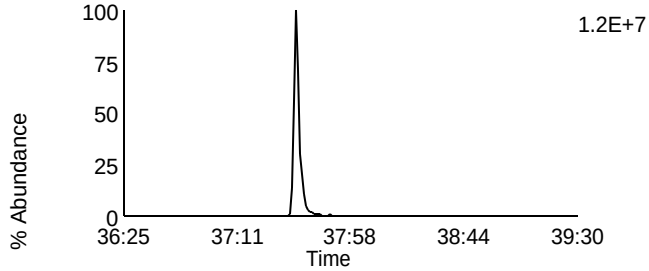
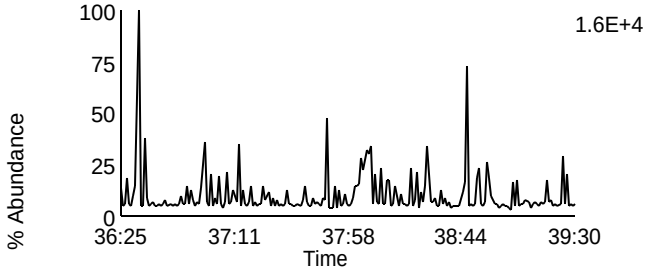
LCS LCS-40457 - CVS



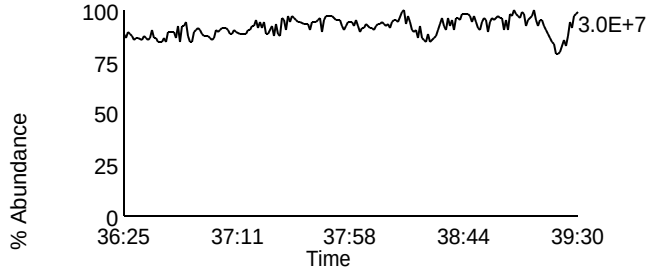
Data File: U140513A_15 G4 C12 - 437.814
LCS LCS-40457 - CVS



Data File: U140513A_15 G4 C13 - 479.7165
LCS LCS-40457 - CVS



Data File: U140513A_15 G4 C1 - 380.976
LCS LCS-40457 - CVS

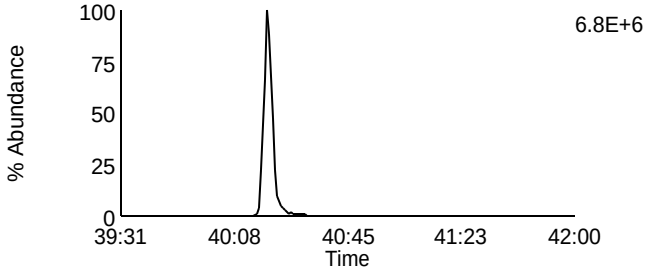


Homologue Group: Octas

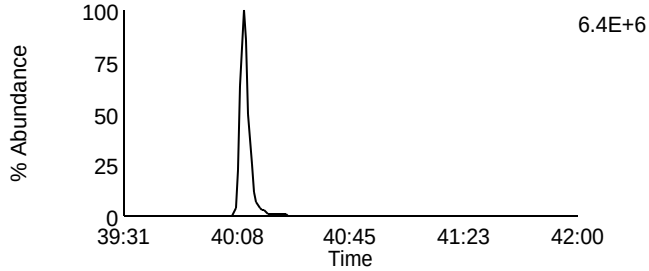
Data File Name: U140513A_15
Date Acquired: 5/13/2014
Sample Description: LCS LCS-40457 - CVS

Lab Sample ID: LCS-40457
Client Sample ID: LCSJB
Instrument: 10MSHR06 (U)

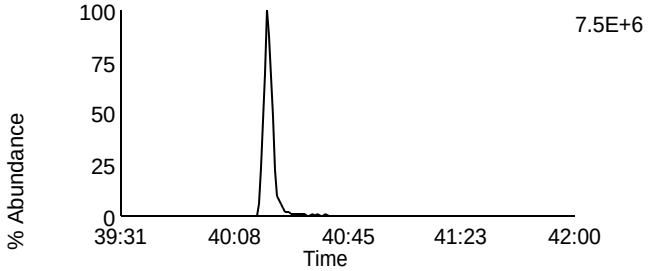
Data File: U140513A_15 G5 C4 - 441.7428
LCS LCS-40457 - CVS



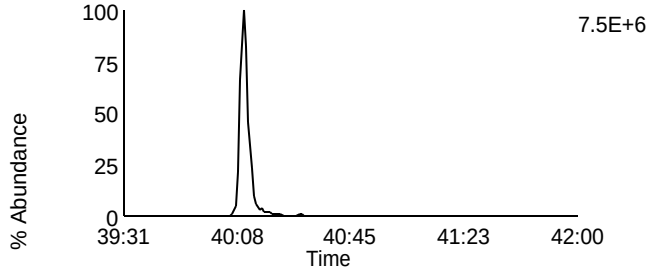
Data File: U140513A_15 G5 C8 - 457.7377
LCS LCS-40457 - CVS



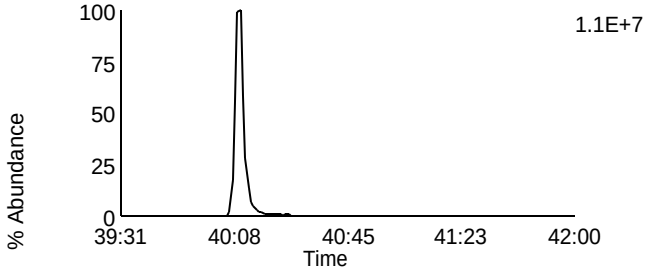
Data File: U140513A_15 G5 C5 - 443.7398
LCS LCS-40457 - CVS



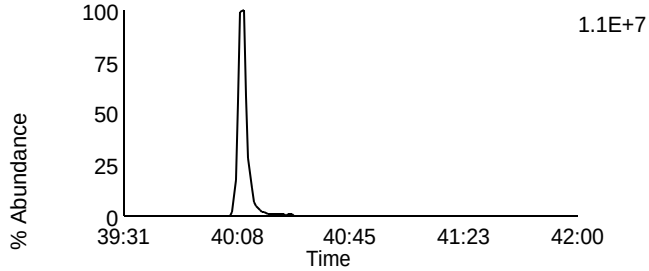
Data File: U140513A_15 G5 C9 - 459.7347
LCS LCS-40457 - CVS



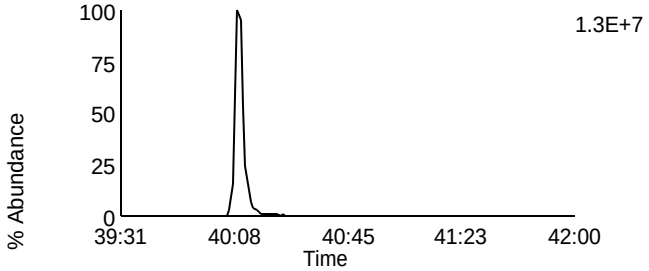
Data File: U140513A_15 G5 C11 - 469.7779
LCS LCS-40457 - CVS



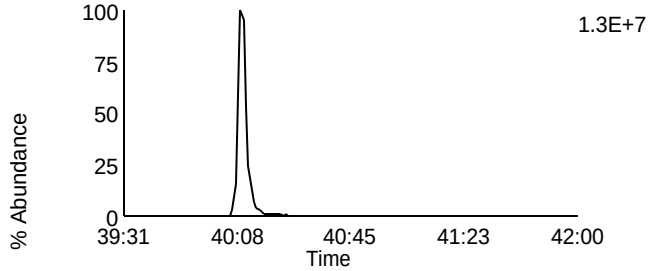
Data File: U140513A_15 G5 C11 - 469.7779
LCS LCS-40457 - CVS



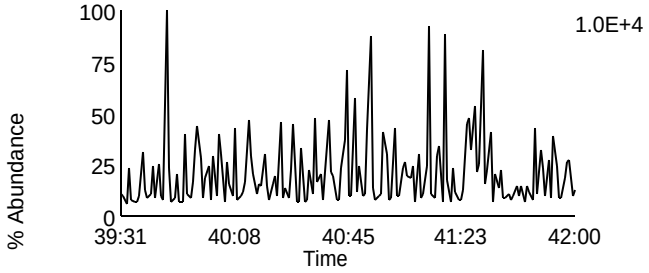
Data File: U140513A_15 G5 C12 - 471.7749
LCS LCS-40457 - CVS



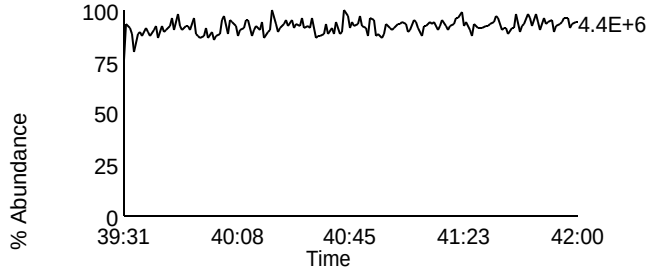
Data File: U140513A_15 G5 C12 - 471.7749
LCS LCS-40457 - CVS



Data File: U140513A_15 G5 C13 - 513.6775
LCS LCS-40457 - CVS



Data File: U140513A_15 G5 C2 - 430.9728
LCS LCS-40457 - CVS

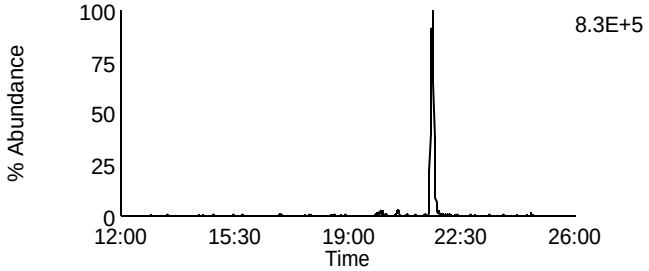


Homologue Group: Tetras

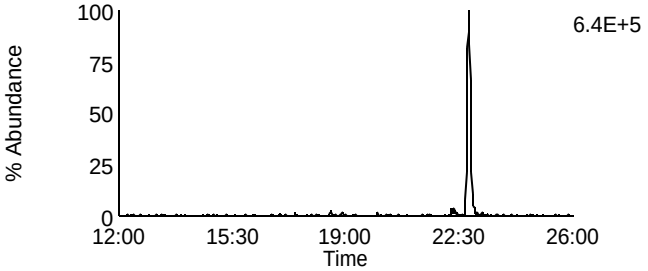
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

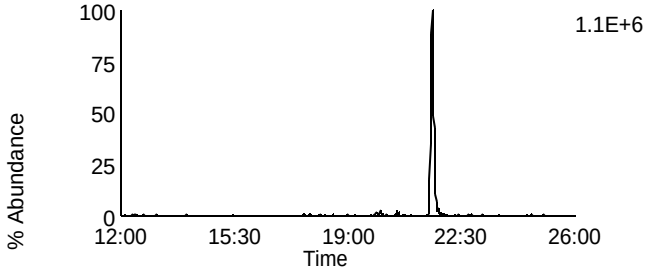
Data File: U140513A_16 G1 C1 - 303.9016
LCS LCSD-40458 - CVS



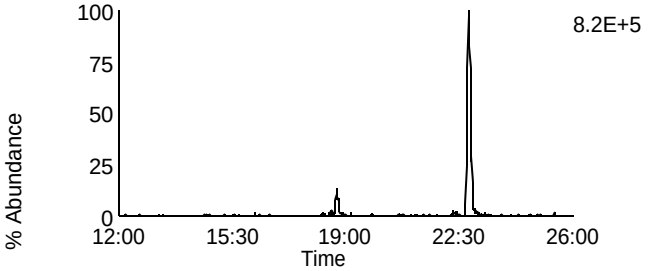
Data File: U140513A_16 G1 C7 - 319.8965
LCS LCSD-40458 - CVS



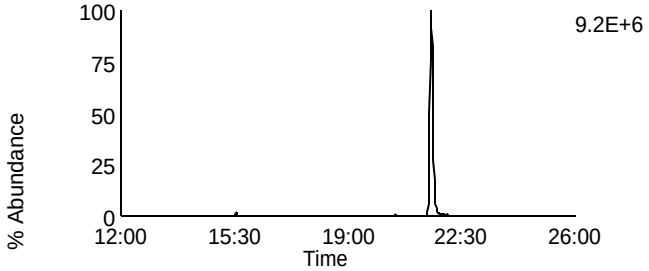
Data File: U140513A_16 G1 C2 - 305.8987
LCS LCSD-40458 - CVS



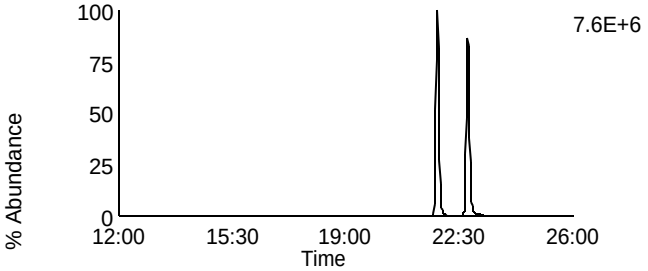
Data File: U140513A_16 G1 C8 - 321.8936
LCS LCSD-40458 - CVS



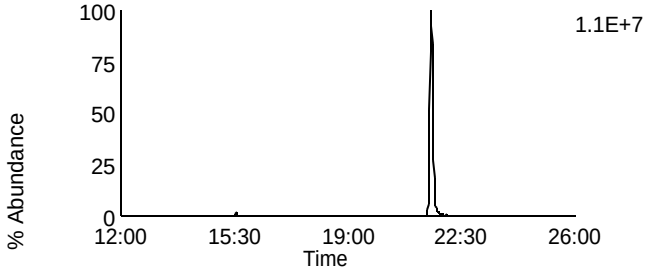
Data File: U140513A_16 G1 C3 - 315.9418
LCS LCSD-40458 - CVS



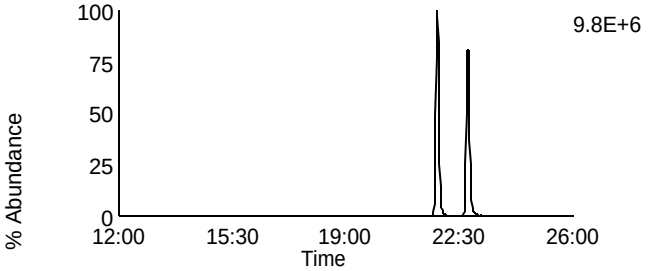
Data File: U140513A_16 G1 C10 - 331.9367
LCS LCSD-40458 - CVS



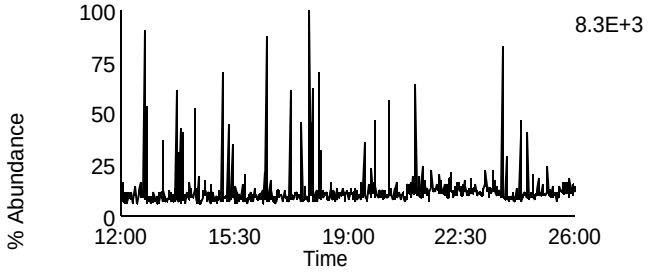
Data File: U140513A_16 G1 C4 - 317.9389
LCS LCSD-40458 - CVS



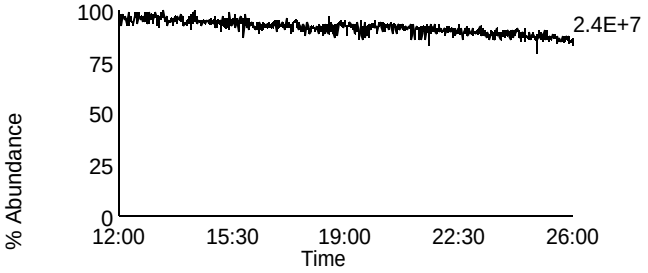
Data File: U140513A_16 G1 C11 - 333.9338
LCS LCSD-40458 - CVS



Data File: U140513A_16 G1 C14 - 375.8364
LCS LCSD-40458 - CVS



Data File: U140513A_16 G1 C5 - 318.9792
LCS LCSD-40458 - CVS

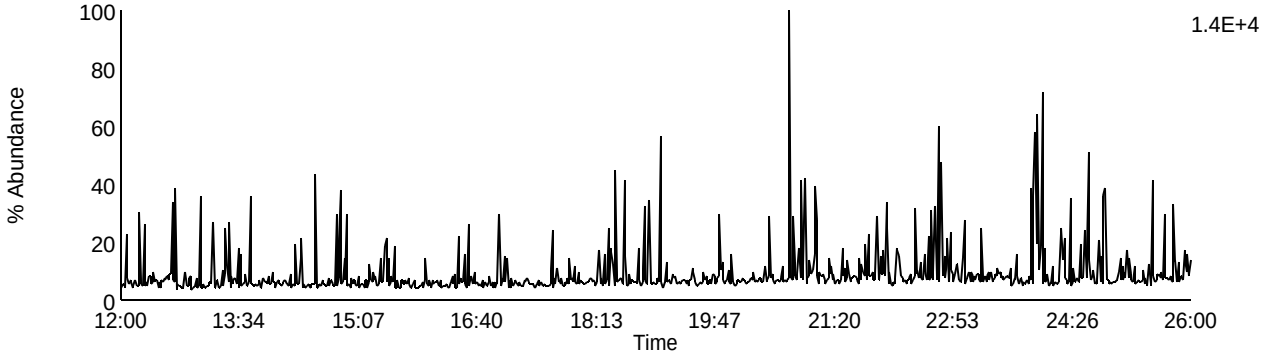


Homologue Group: Penta & Cleanup

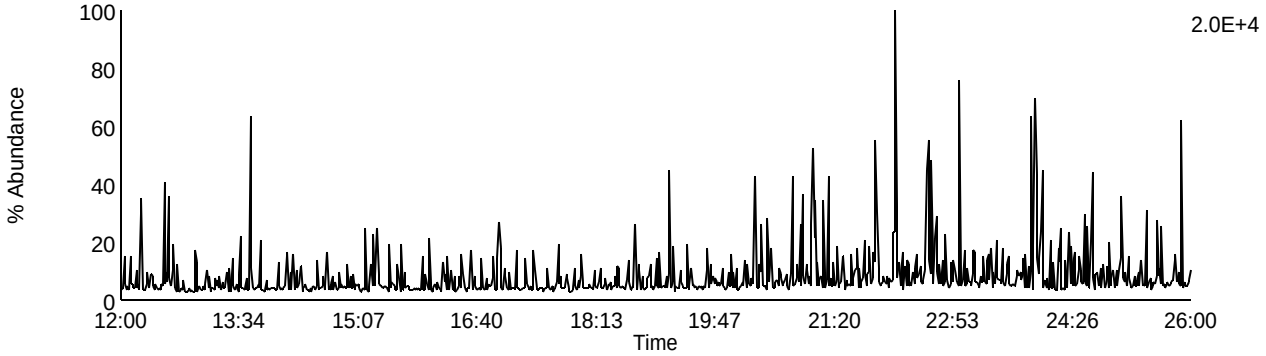
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

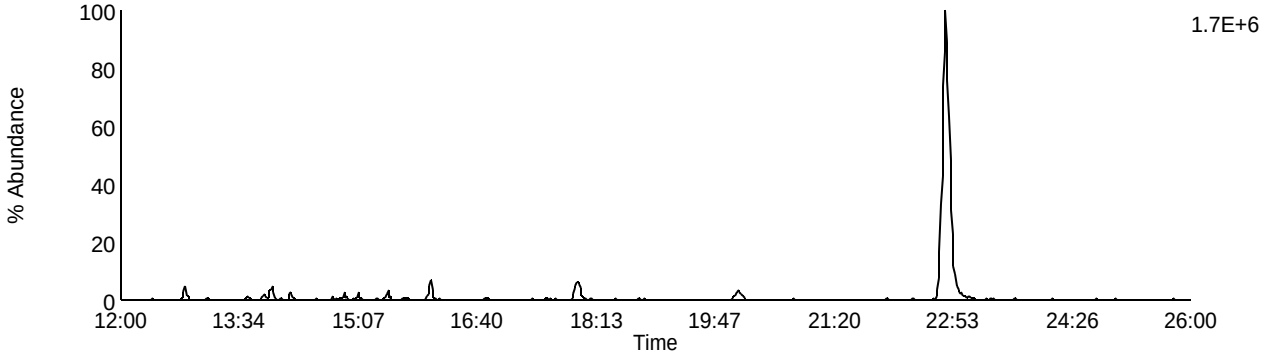
Data File: U140513A_16 G1 C12 - 339.8597
LCS LCSD-40458 - CVS



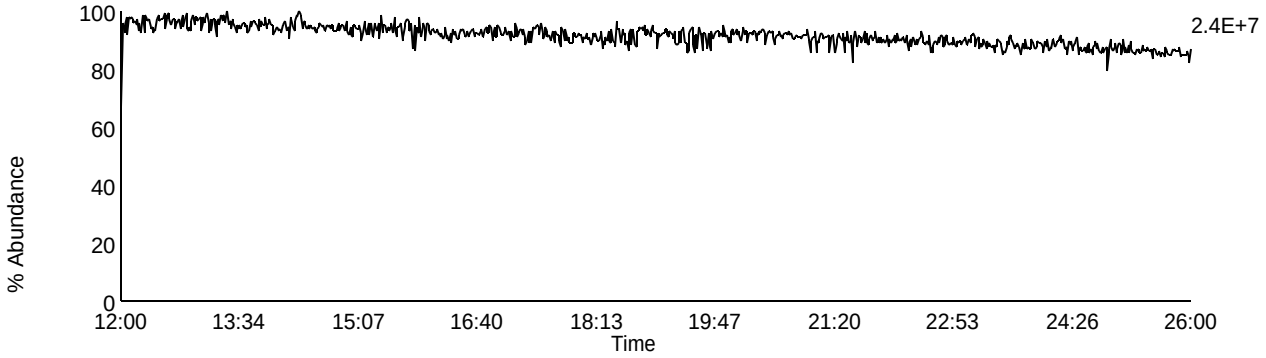
Data File: U140513A_16 G1 C13 - 341.8567
LCS LCSD-40458 - CVS



Data File: U140513A_16 G1 C9 - 327.8847
LCS LCSD-40458 - CVS



Data File: U140513A_16 G1 C5 - 318.9792
LCS LCSD-40458 - CVS

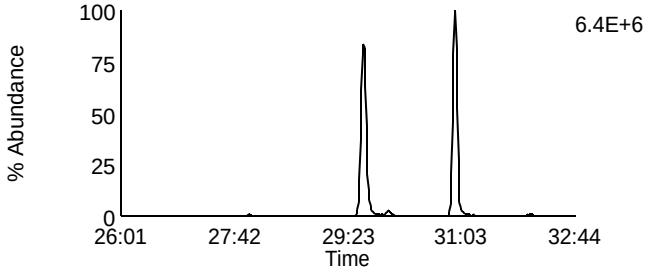


Homologue Group: Pentas

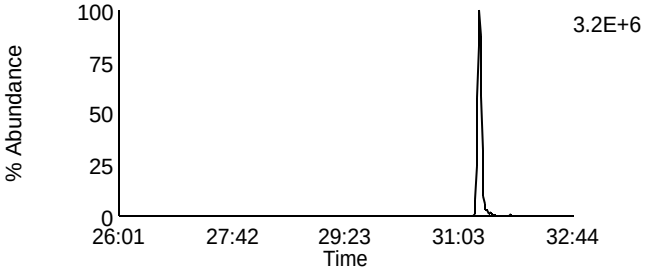
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

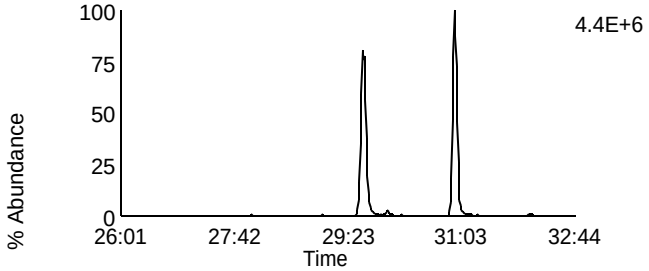
Data File: U140513A_16 G2 C1 - 339.8597
LCS LCSD-40458 - CVS



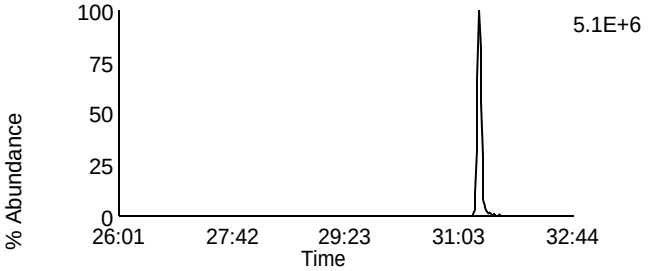
Data File: U140513A_16 G2 C4 - 353.8576
LCS LCSD-40458 - CVS



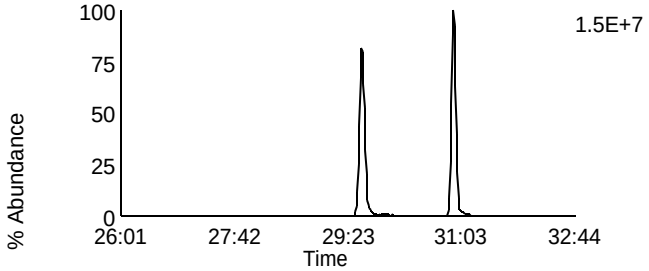
Data File: U140513A_16 G2 C2 - 341.8567
LCS LCSD-40458 - CVS



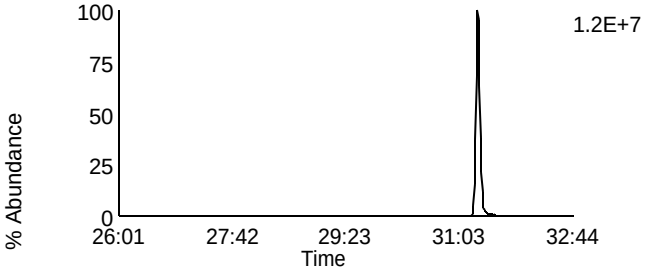
Data File: U140513A_16 G2 C8 - 355.8546
LCS LCSD-40458 - CVS



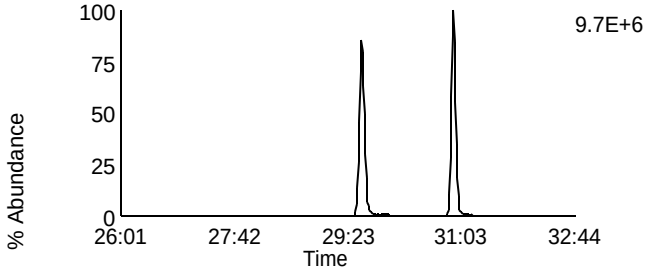
Data File: U140513A_16 G2 C3 - 351.8999
LCS LCSD-40458 - CVS



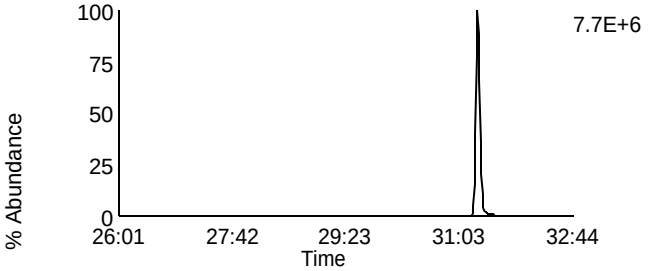
Data File: U140513A_16 G2 C10 - 367.8948
LCS LCSD-40458 - CVS



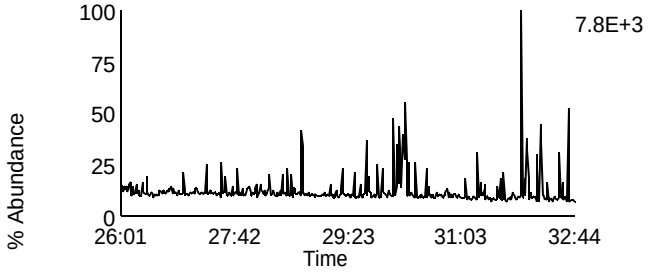
Data File: U140513A_16 G2 C5 - 353.8969
LCS LCSD-40458 - CVS



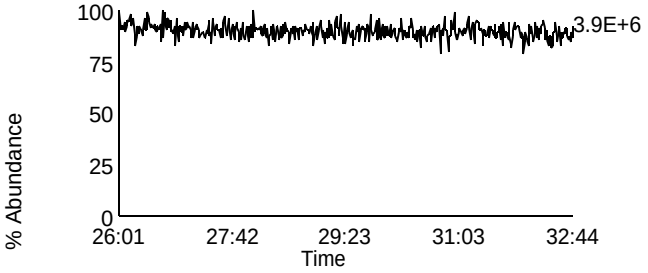
Data File: U140513A_16 G2 C11 - 369.8918
LCS LCSD-40458 - CVS



Data File: U140513A_16 G2 C12 - 409.7974
LCS LCSD-40458 - CVS



Data File: U140513A_16 G2 C6 - 354.9792
LCS LCSD-40458 - CVS

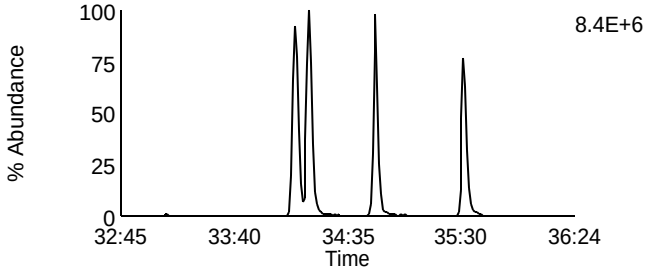


Homologue Group: Hexas

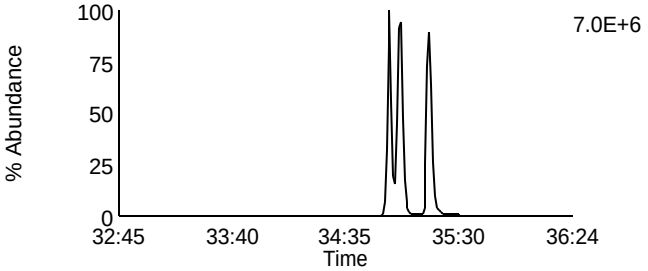
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

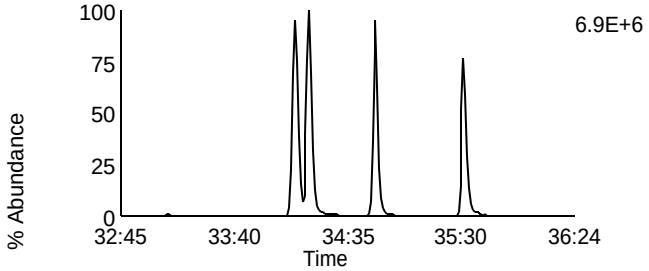
Data File: U140513A_16 G3 C1 - 373.8207
LCS LCSD-40458 - CVS



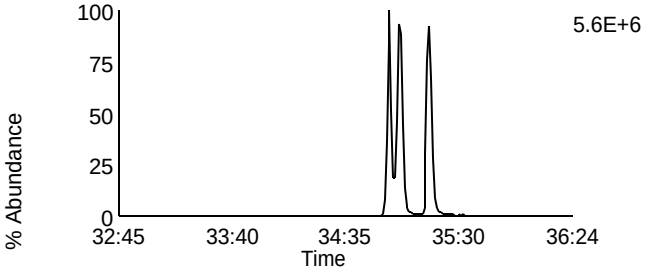
Data File: U140513A_16 G3 C7 - 389.8156
LCS LCSD-40458 - CVS



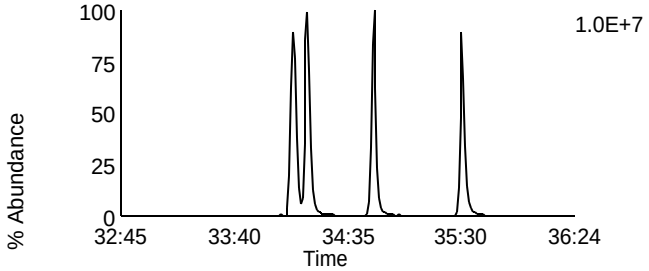
Data File: U140513A_16 G3 C2 - 375.8178
LCS LCSD-40458 - CVS



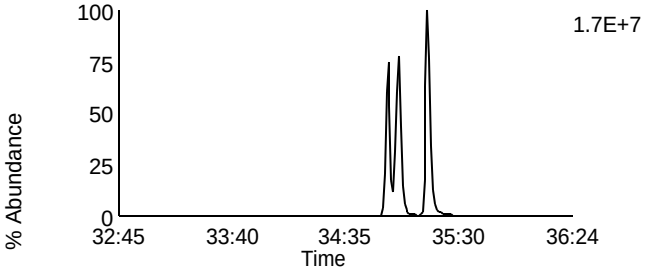
Data File: U140513A_16 G3 C8 - 391.8127
LCS LCSD-40458 - CVS



Data File: U140513A_16 G3 C5 - 383.8639
LCS LCSD-40458 - CVS



Data File: U140513A_16 G3 C9 - 401.8559
LCS LCSD-40458 - CVS



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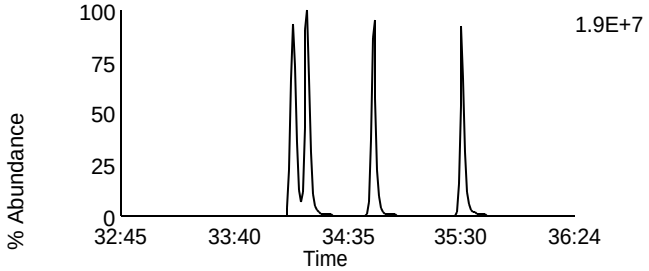
LCS LCSD-40458 - CVS



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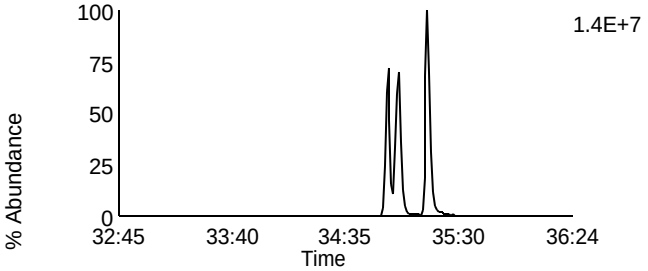
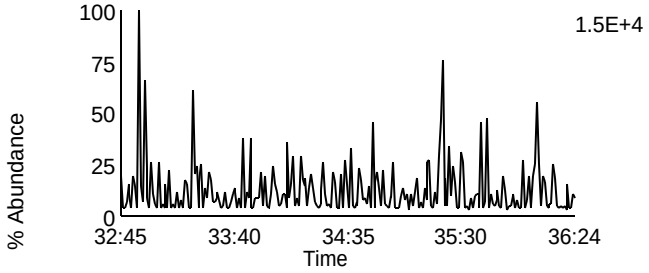
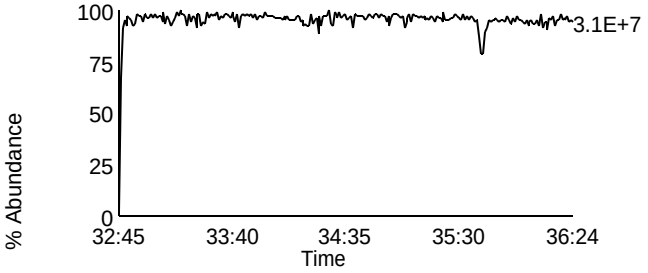
LCS LCSD-40458 - CVS



Data File: U140513A_16 G3 C11 - 445.7555
LCS LCSD-40458 - CVS



Data File: U140513A_16 G3 C3 - 380.976
LCS LCSD-40458 - CVS

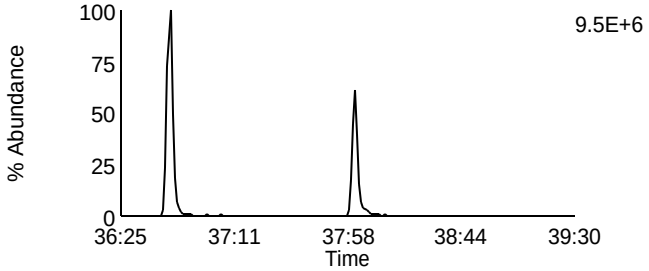


Homologue Group: Heptas

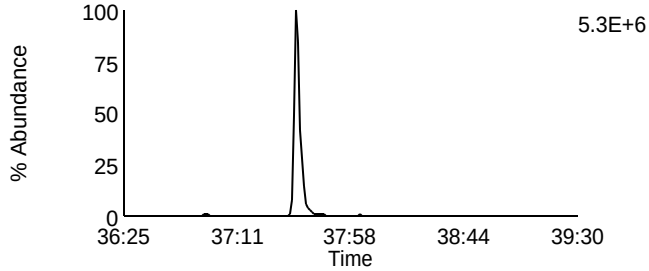
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

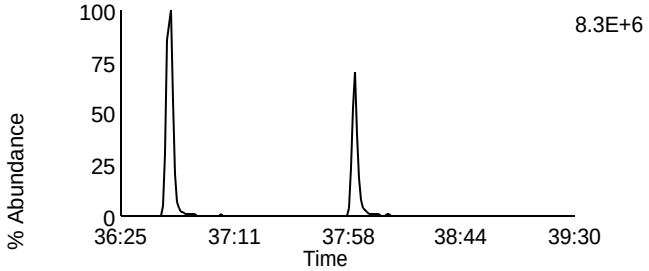
Data File: U140513A_16 G4 C3 - 407.7818
LCS LCSD-40458 - CVS



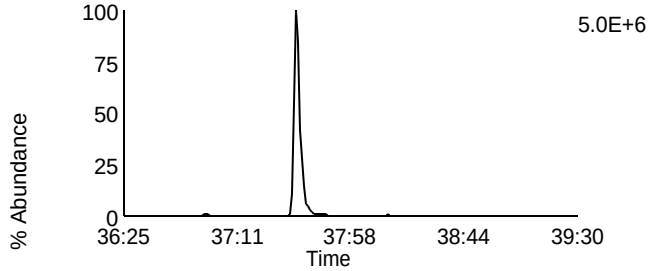
Data File: U140513A_16 G4 C8 - 423.7767
LCS LCSD-40458 - CVS



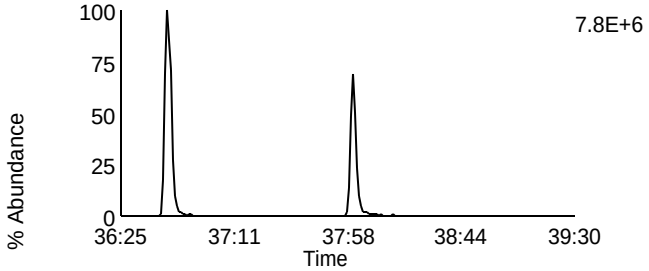
Data File: U140513A_16 G4 C4 - 409.7788
LCS LCSD-40458 - CVS



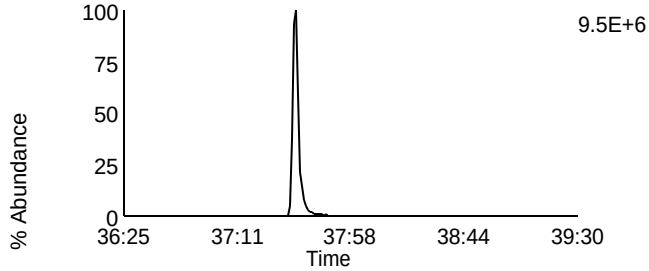
Data File: U140513A_16 G4 C9 - 425.7737
LCS LCSD-40458 - CVS



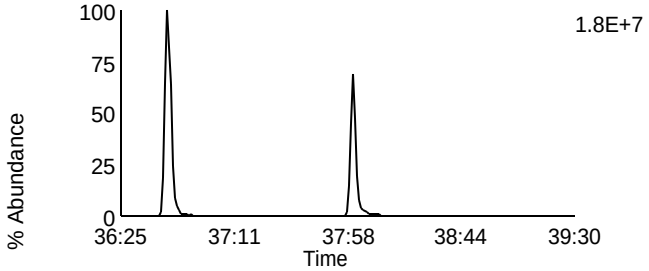
Data File: U140513A_16 G4 C6 - 417.825
LCS LCSD-40458 - CVS



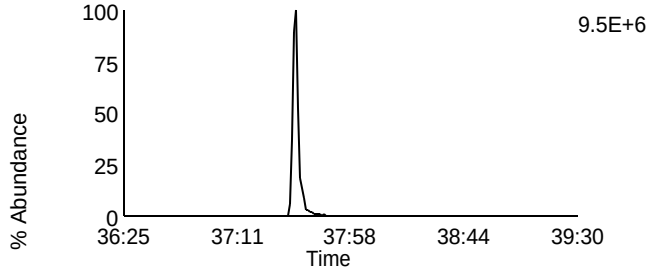
Data File: U140513A_16 G4 C11 - 435.8169
LCS LCSD-40458 - CVS



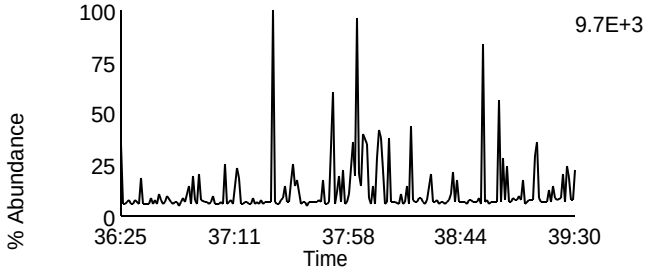
Data File: U140513A_16 G4 C7 - 419.822
LCS LCSD-40458 - CVS



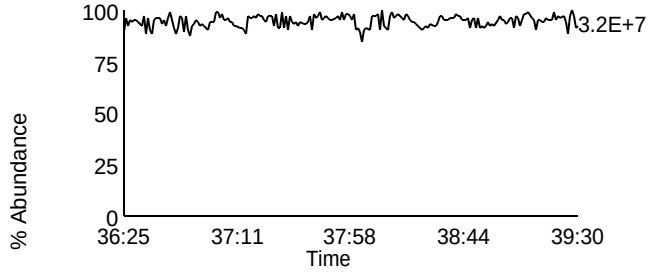
Data File: U140513A_16 G4 C12 - 437.814
LCS LCSD-40458 - CVS



Data File: U140513A_16 G4 C13 - 479.7165
LCS LCSD-40458 - CVS



Data File: U140513A_16 G4 C1 - 380.976
LCS LCSD-40458 - CVS

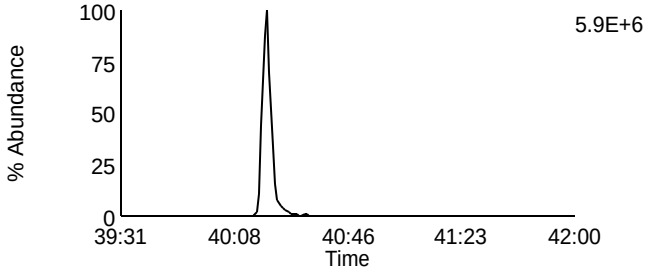


Homologue Group: Octas

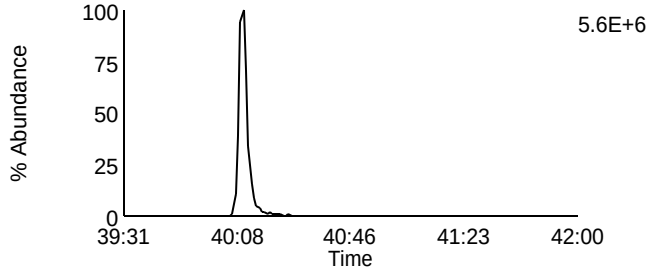
Data File Name: U140513A_16
Date Acquired: 5/13/2014
Sample Description: LCS LCSD-40458 - CVS

Lab Sample ID: LCSD-40458
Client Sample ID: LCSJC
Instrument: 10MSHR06 (U)

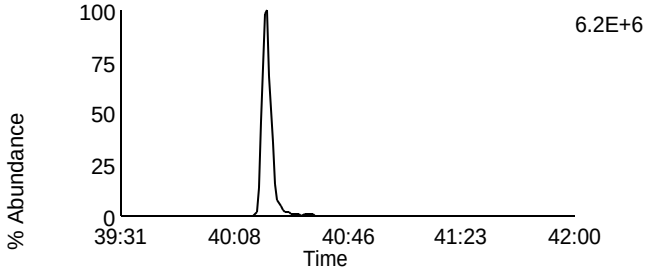
Data File: U140513A_16 G5 C4 - 441.7428
LCS LCSD-40458 - CVS



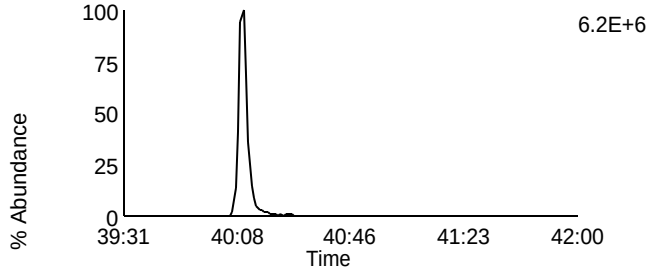
Data File: U140513A_16 G5 C8 - 457.7377
LCS LCSD-40458 - CVS



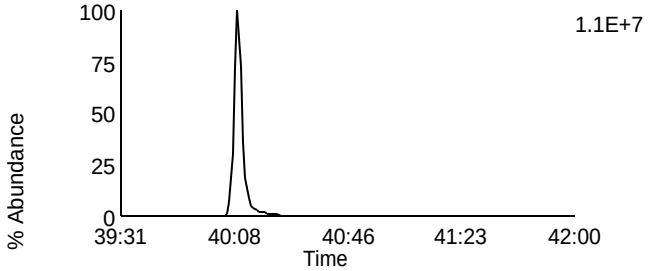
Data File: U140513A_16 G5 C5 - 443.7398
LCS LCSD-40458 - CVS



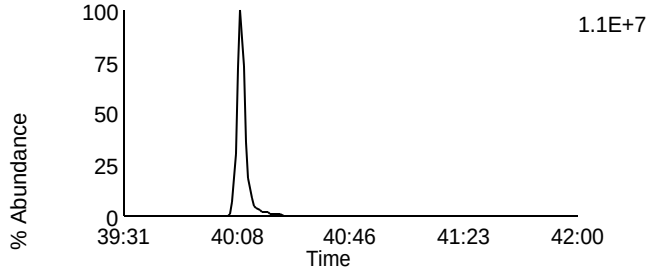
Data File: U140513A_16 G5 C9 - 459.7347
LCS LCSD-40458 - CVS



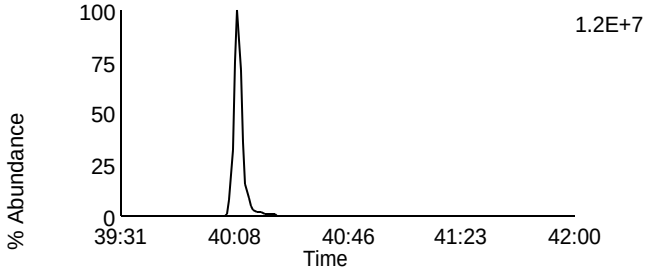
Data File: U140513A_16 G5 C11 - 469.7779
LCS LCSD-40458 - CVS



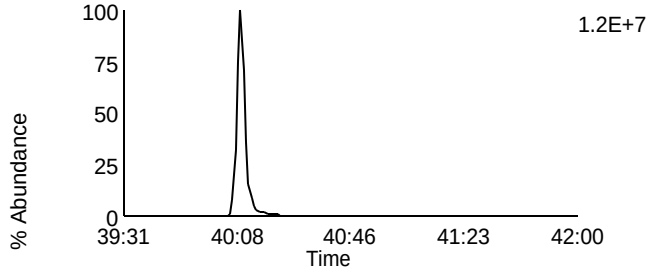
Data File: U140513A_16 G5 C11 - 469.7779
LCS LCSD-40458 - CVS



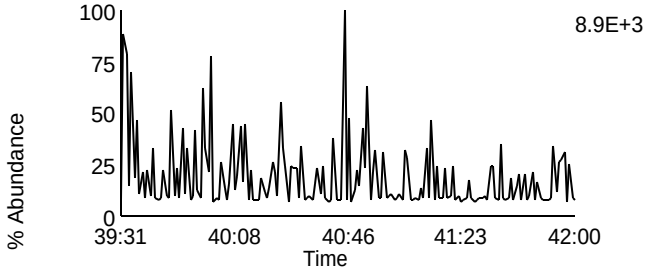
Data File: U140513A_16 G5 C12 - 471.7749
LCS LCSD-40458 - CVS



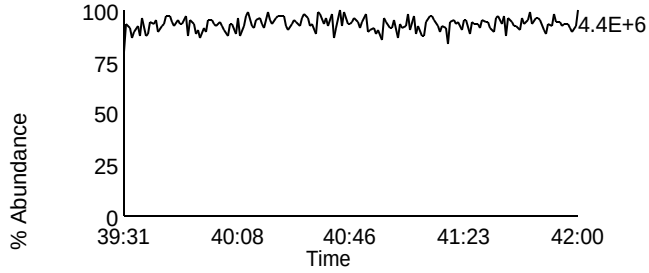
Data File: U140513A_16 G5 C12 - 471.7749
LCS LCSD-40458 - CVS



Data File: U140513A_16 G5 C13 - 513.6775
LCS LCSD-40458 - CVS



Data File: U140513A_16 G5 C2 - 430.9728
LCS LCSD-40458 - CVS

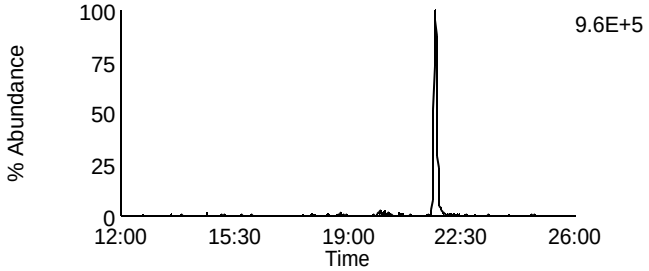


Homologue Group: Tetras

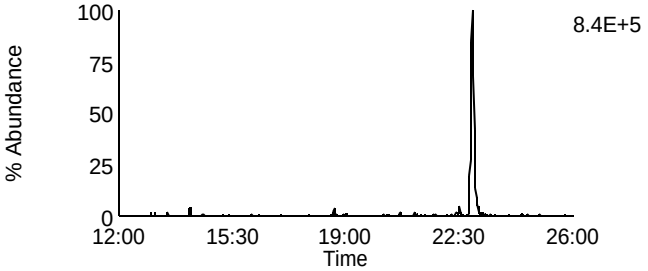
Data File Name: U140512A_03
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MS2 - SMT WI

Lab Sample ID: 10265141001-MS2
Client Sample ID: MAK109O-MS
Instrument: 10MSHR06 (U)

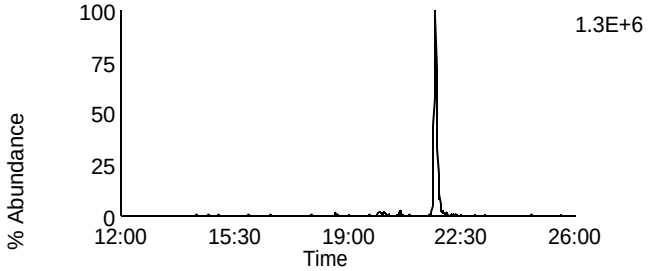
Data File: U140512A_03 G1 C1 - 303.9016
SAMP 10265141001-MS2 - SMT WI



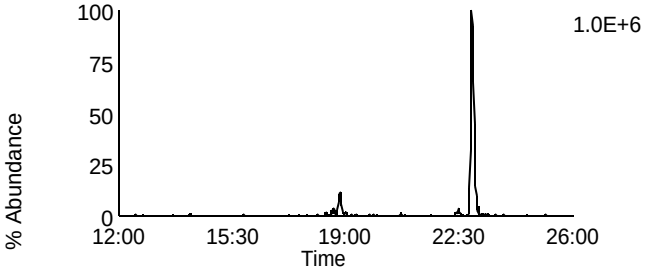
Data File: U140512A_03 G1 C7 - 319.8965
SAMP 10265141001-MS2 - SMT WI



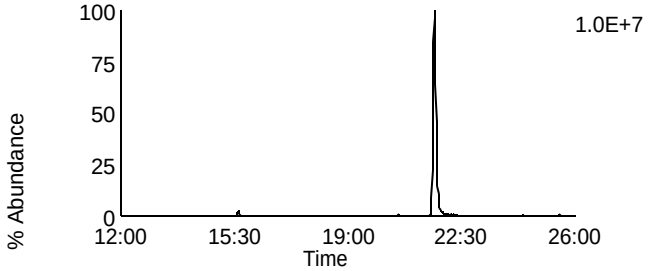
Data File: U140512A_03 G1 C2 - 305.8987
SAMP 10265141001-MS2 - SMT WI



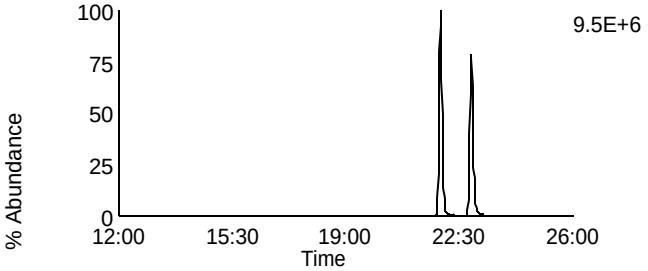
Data File: U140512A_03 G1 C8 - 321.8936
SAMP 10265141001-MS2 - SMT WI



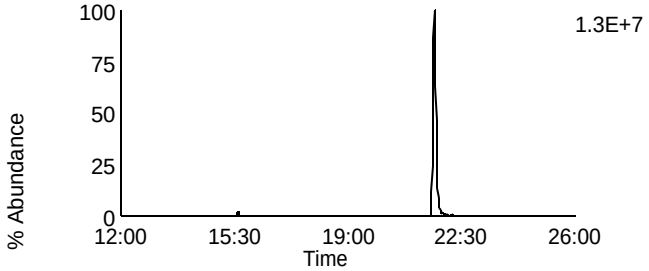
Data File: U140512A_03 G1 C3 - 315.9418
SAMP 10265141001-MS2 - SMT WI



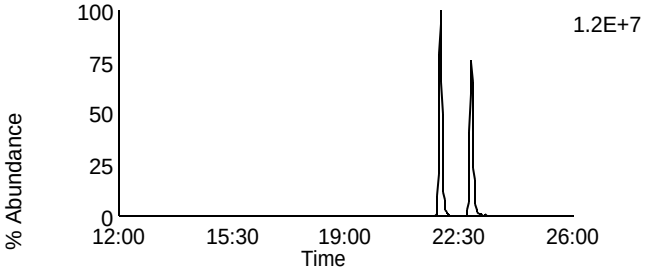
Data File: U140512A_03 G1 C10 - 331.9367
SAMP 10265141001-MS2 - SMT WI



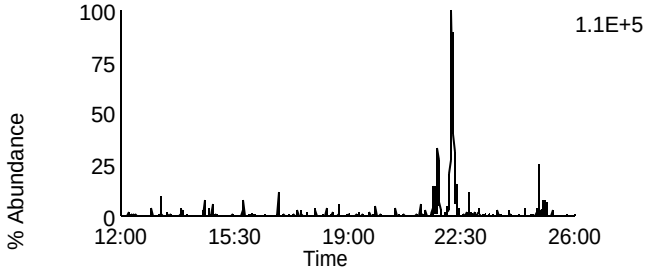
Data File: U140512A_03 G1 C4 - 317.9389
SAMP 10265141001-MS2 - SMT WI



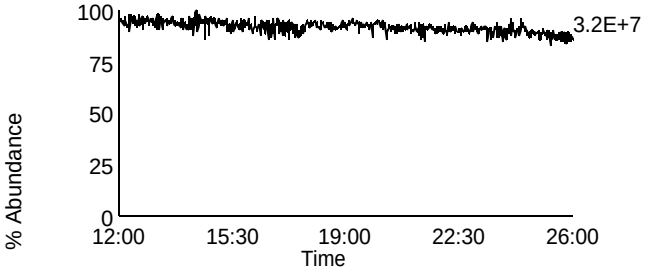
Data File: U140512A_03 G1 C11 - 333.9338
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G1 C14 - 375.8364
SAMP 10265141001-MS2 - SMT WI



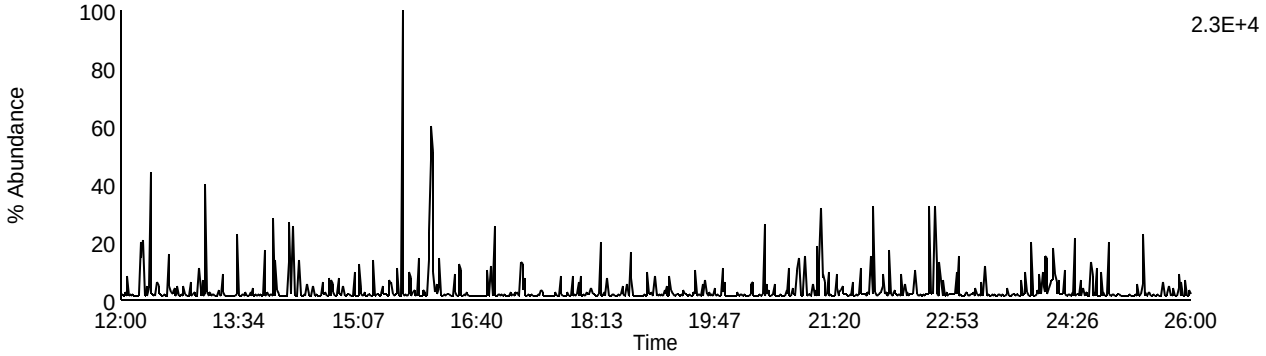
Data File: U140512A_03 G1 C5 - 318.9792
SAMP 10265141001-MS2 - SMT WI



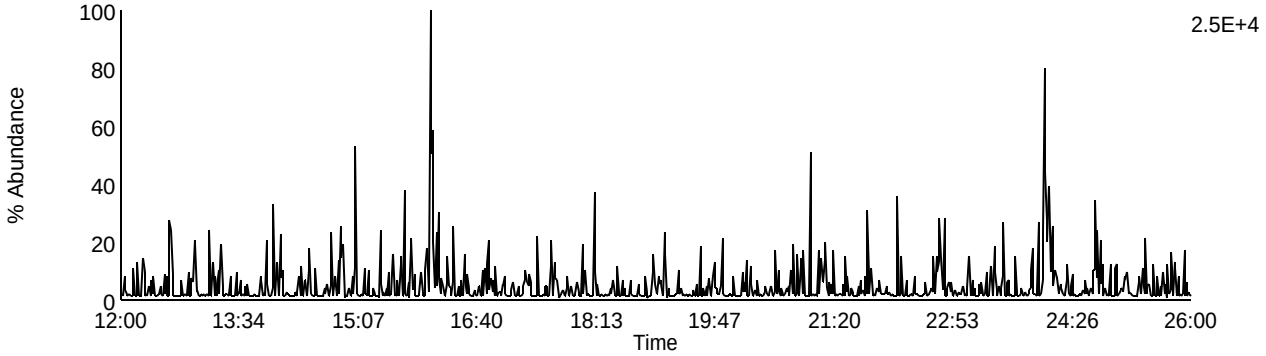
Homologue Group: Penta & Cleanup

Data File Name: U140512A_03	Lab Sample ID: 10265141001-MS2
Date Acquired: 5/12/2014	Client Sample ID: MAK109O-MS
Sample Description: SAMP 10265141001-MS2 - SMT WI	Instrument: 10MSHR06 (U)

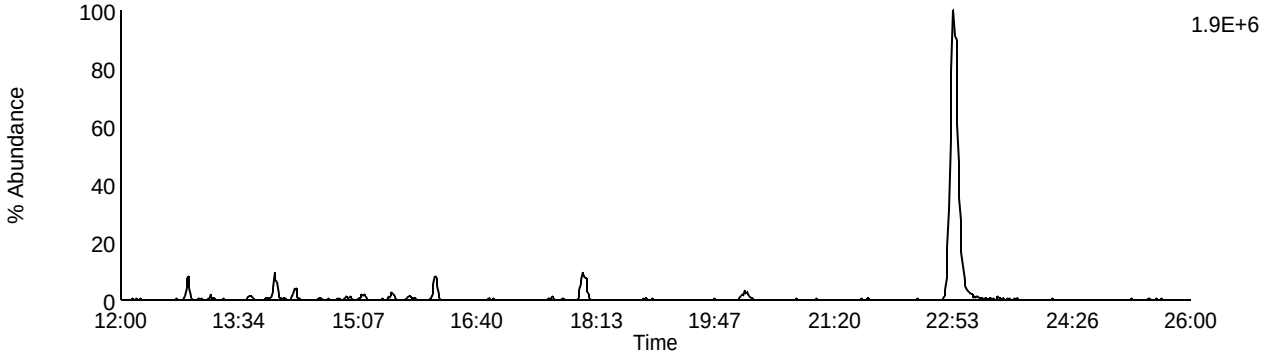
Data File: U140512A_03 G1 C12 - 339.8597
SAMP 10265141001-MS2 - SMT WI



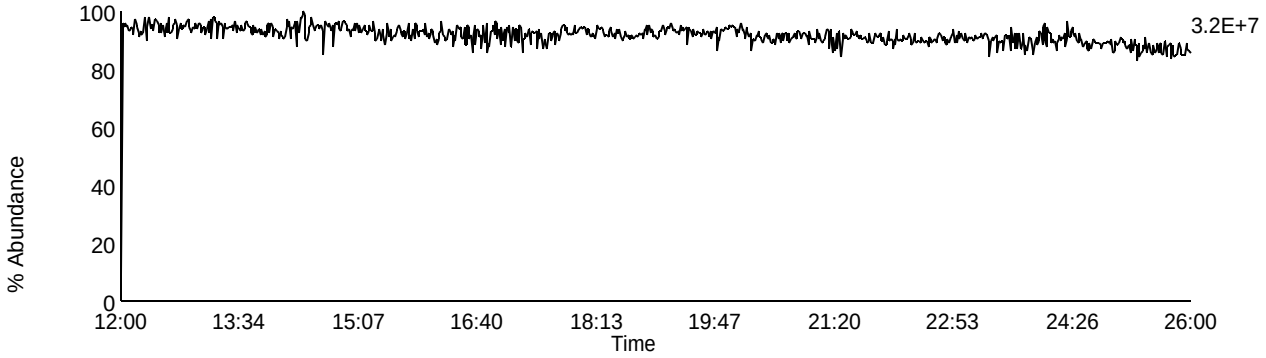
Data File: U140512A_03 G1 C13 - 341.8567
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G1 C9 - 327.8847
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G1 C5 - 318.9792
SAMP 10265141001-MS2 - SMT WI

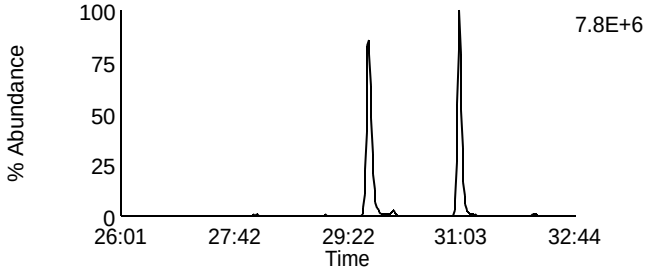


Homologue Group: Pentas

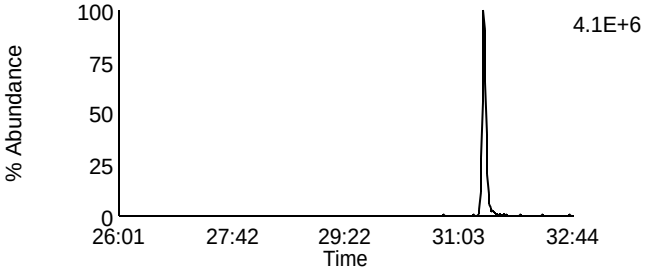
Data File Name: U140512A_03
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MS2 - SMT WI

Lab Sample ID: 10265141001-MS2
Client Sample ID: MAK109O-MS
Instrument: 10MSHR06 (U)

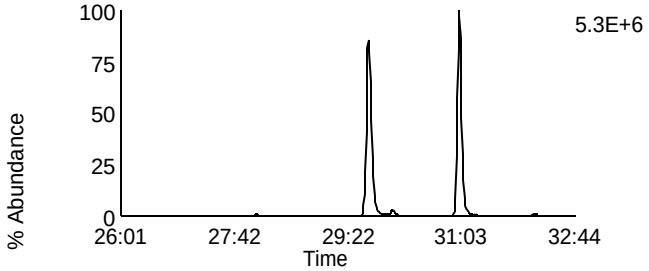
Data File: U140512A_03 G2 C1 - 339.8597
SAMP 10265141001-MS2 - SMT WI



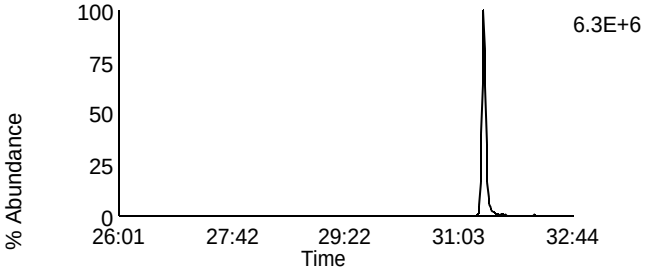
Data File: U140512A_03 G2 C4 - 353.8576
SAMP 10265141001-MS2 - SMT WI



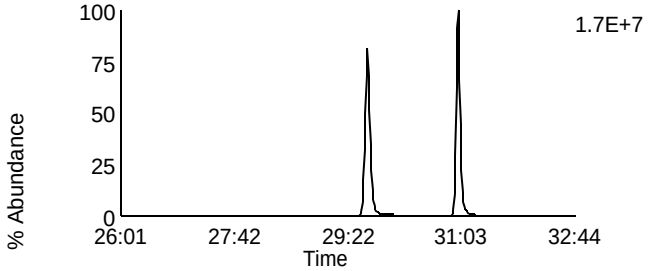
Data File: U140512A_03 G2 C2 - 341.8567
SAMP 10265141001-MS2 - SMT WI



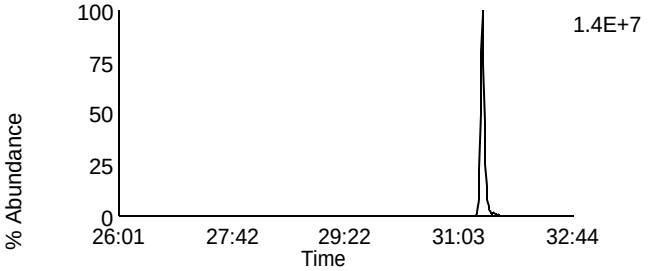
Data File: U140512A_03 G2 C8 - 355.8546
SAMP 10265141001-MS2 - SMT WI



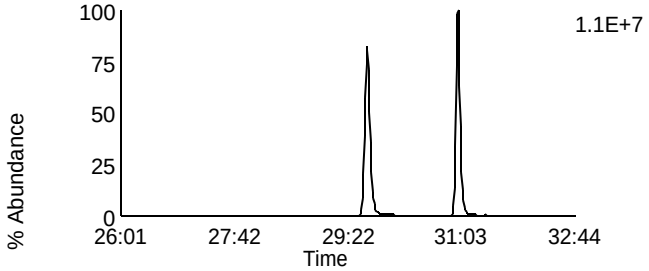
Data File: U140512A_03 G2 C3 - 351.8999
SAMP 10265141001-MS2 - SMT WI



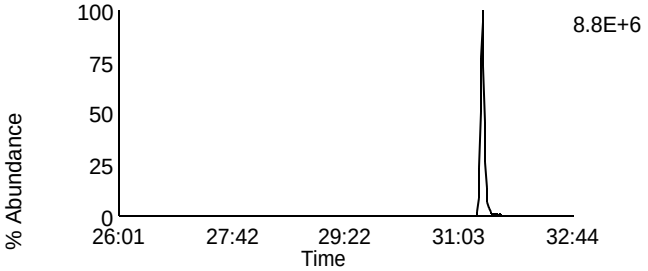
Data File: U140512A_03 G2 C10 - 367.8948
SAMP 10265141001-MS2 - SMT WI



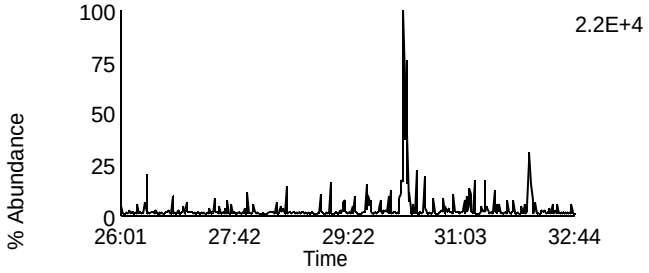
Data File: U140512A_03 G2 C5 - 353.8969
SAMP 10265141001-MS2 - SMT WI



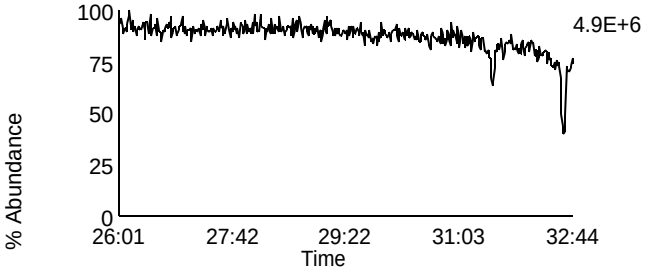
Data File: U140512A_03 G2 C11 - 369.8918
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G2 C12 - 409.7974
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G2 C6 - 354.9792
SAMP 10265141001-MS2 - SMT WI

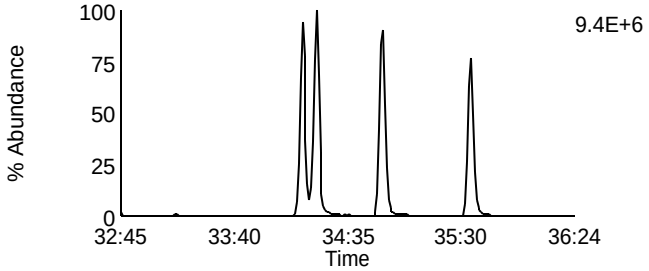


Homologue Group: Hexas

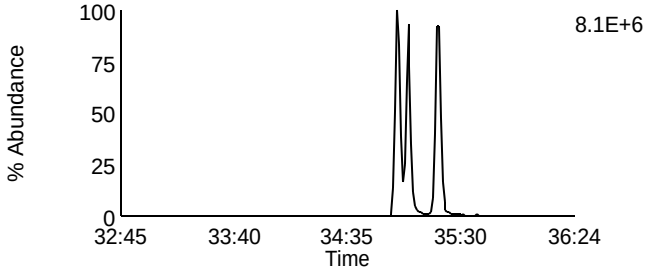
Data File Name: U140512A_03
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MS2 - SMT WI

Lab Sample ID: 10265141001-MS2
Client Sample ID: MAK109O-MS
Instrument: 10MSHR06 (U)

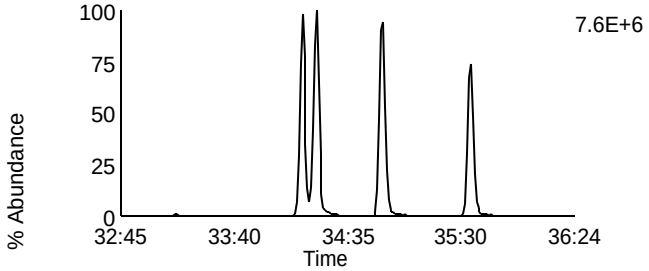
Data File: U140512A_03 G3 C1 - 373.8207
SAMP 10265141001-MS2 - SMT WI



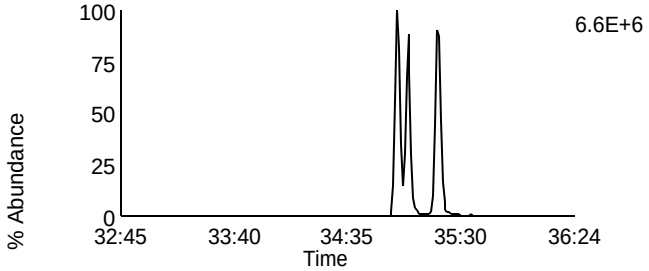
Data File: U140512A_03 G3 C7 - 389.8156
SAMP 10265141001-MS2 - SMT WI



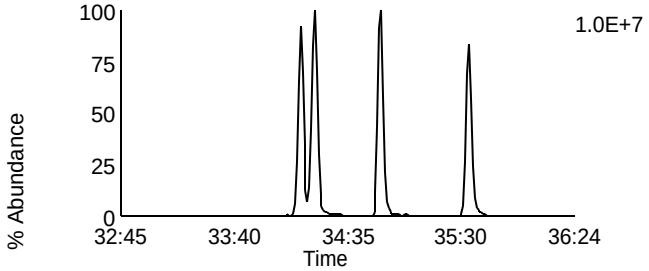
Data File: U140512A_03 G3 C2 - 375.8178
SAMP 10265141001-MS2 - SMT WI



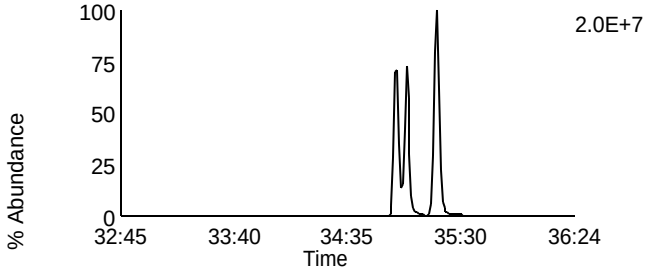
Data File: U140512A_03 G3 C8 - 391.8127
SAMP 10265141001-MS2 - SMT WI



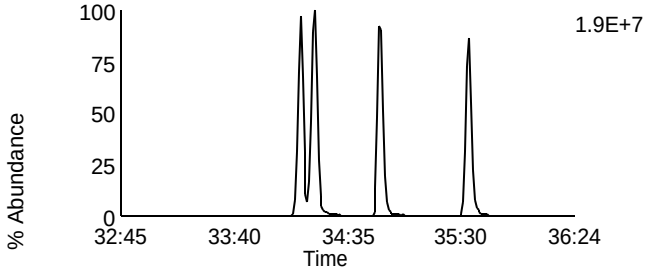
Data File: U140512A_03 G3 C5 - 383.8639
SAMP 10265141001-MS2 - SMT WI



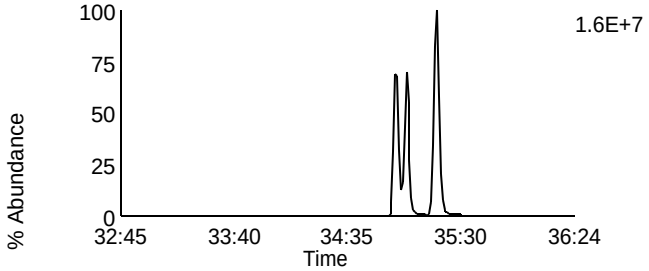
Data File: U140512A_03 G3 C9 - 401.8559
SAMP 10265141001-MS2 - SMT WI



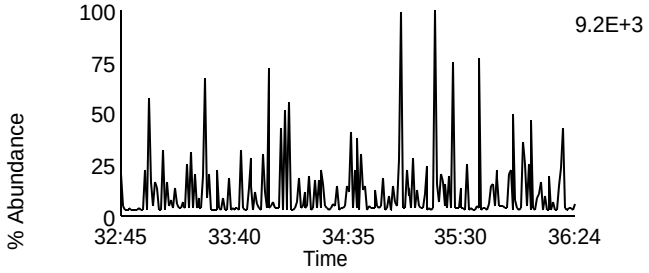
Data File: U140512A_03 G3 C6 - 385.861
SAMP 10265141001-MS2 - SMT WI



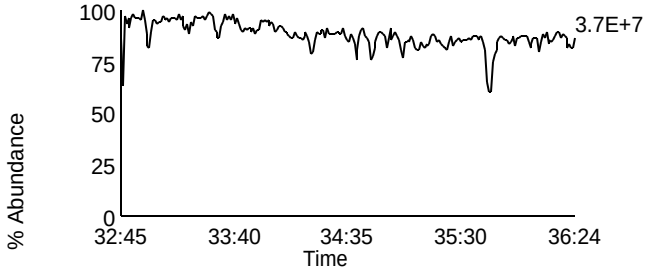
Data File: U140512A_03 G3 C10 - 403.8529
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G3 C11 - 445.7555
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G3 C3 - 380.976
SAMP 10265141001-MS2 - SMT WI

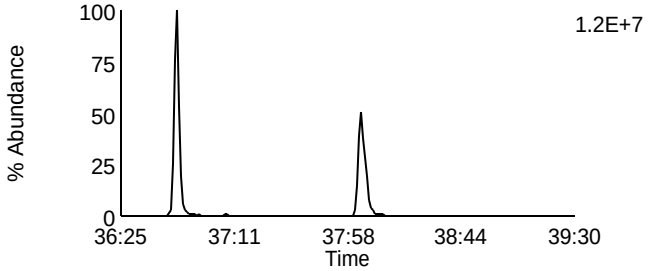


Homologue Group: Heptas

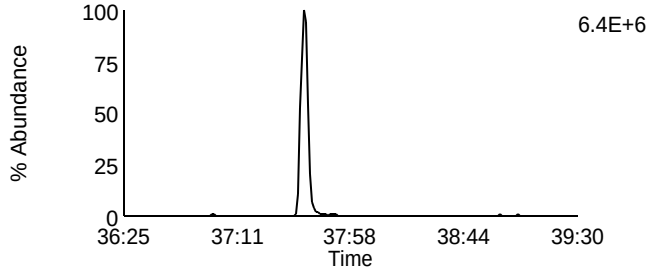
Data File Name: U140512A_03
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MS2 - SMT WI

Lab Sample ID: 10265141001-MS2
Client Sample ID: MAK109O-MS
Instrument: 10MSHR06 (U)

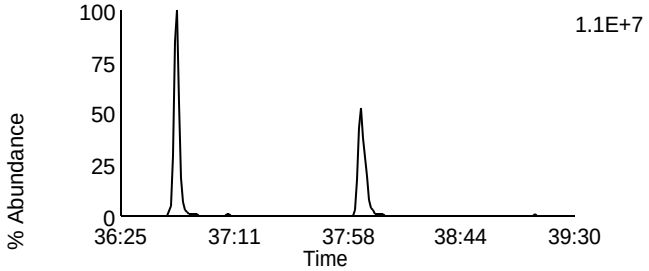
Data File: U140512A_03 G4 C3 - 407.7818
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G4 C8 - 423.7767
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G4 C4 - 409.7788
SAMP 10265141001-MS2 - SMT WI



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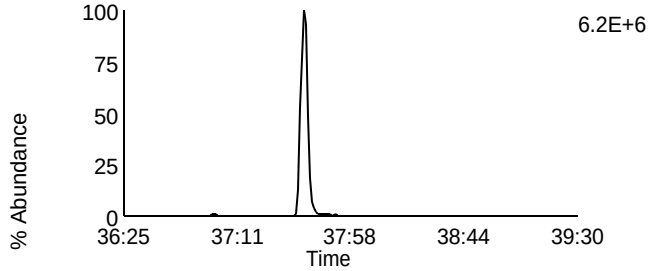
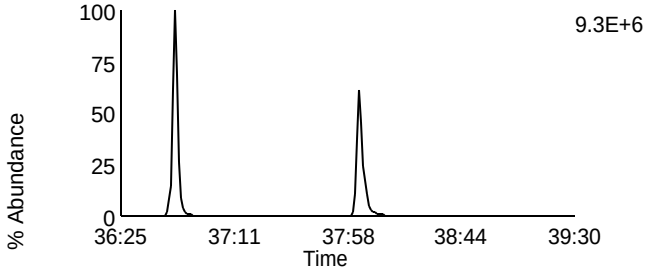
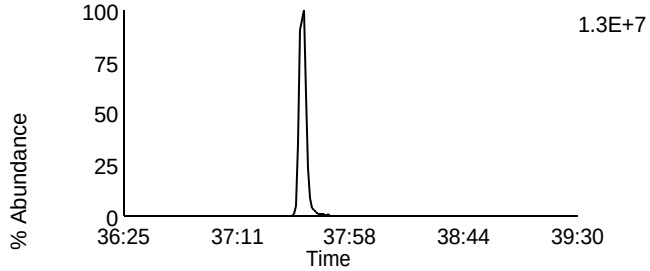
SAMP 10265141001-MS2 - SMT WI



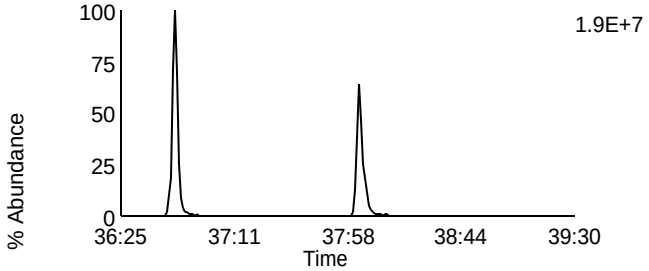
Data File: U140512A_03 G4 C6 - 417.825
SAMP 10265141001-MS2 - SMT WI



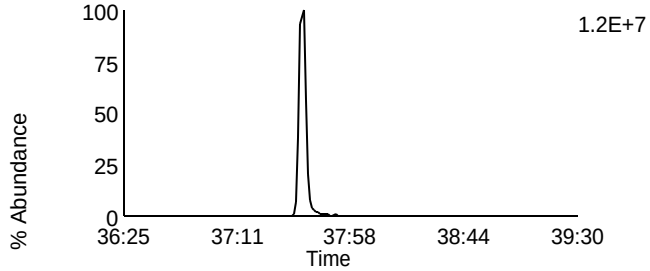
Data File: U140512A_03 G4 C11 - 435.8169
SAMP 10265141001-MS2 - SMT WI



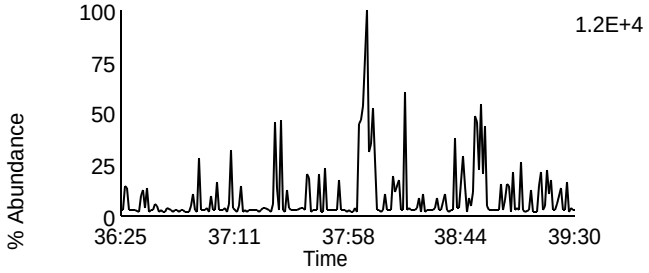
Data File: U140512A_03 G4 C7 - 419.822
SAMP 10265141001-MS2 - SMT WI



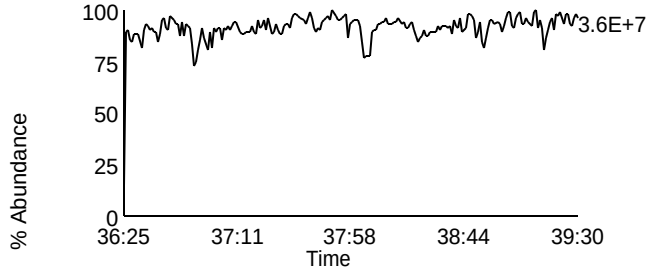
Data File: U140512A_03 G4 C12 - 437.814
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G4 C13 - 479.7165
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G4 C1 - 380.976
SAMP 10265141001-MS2 - SMT WI

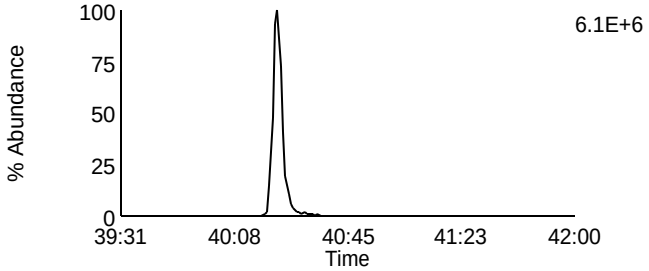


Homologue Group: Octas

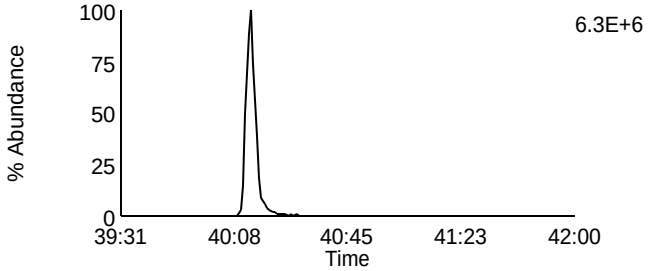
Data File Name: U140512A_03
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MS2 - SMT WI

Lab Sample ID: 10265141001-MS2
Client Sample ID: MAK109O-MS
Instrument: 10MSHR06 (U)

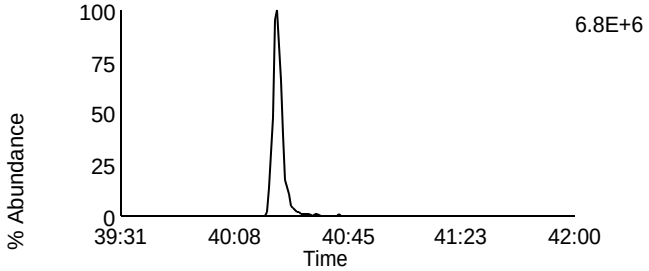
Data File: U140512A_03 G5 C4 - 441.7428
SAMP 10265141001-MS2 - SMT WI



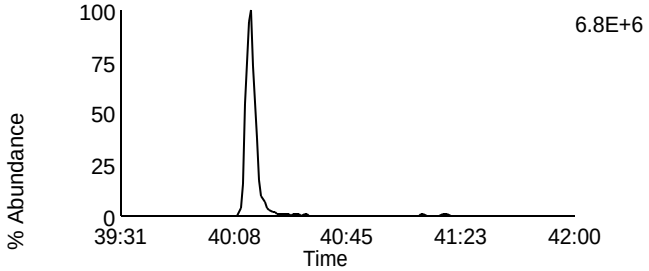
Data File: U140512A_03 G5 C8 - 457.7377
SAMP 10265141001-MS2 - SMT WI



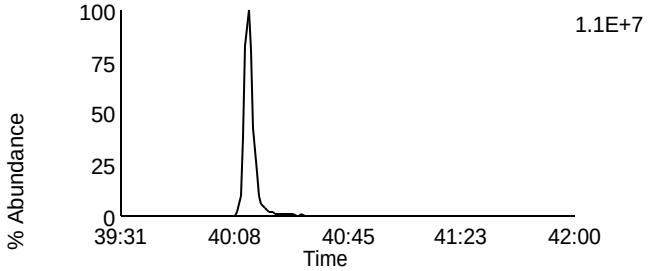
Data File: U140512A_03 G5 C5 - 443.7398
SAMP 10265141001-MS2 - SMT WI



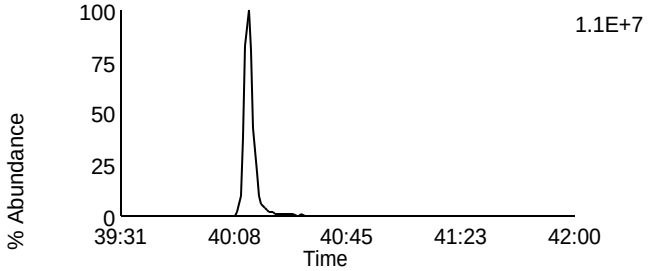
Data File: U140512A_03 G5 C9 - 459.7347
SAMP 10265141001-MS2 - SMT WI



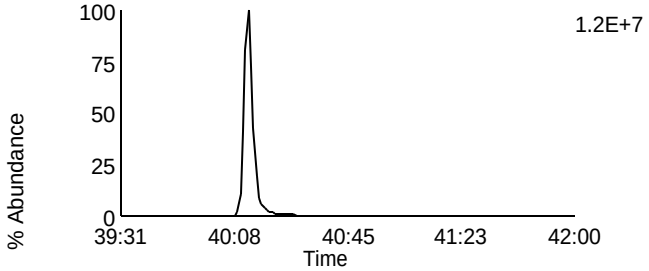
Data File: U140512A_03 G5 C11 - 469.7779
SAMP 10265141001-MS2 - SMT WI



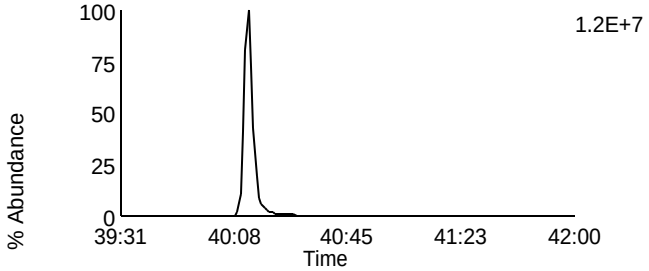
Data File: U140512A_03 G5 C11 - 469.7779
SAMP 10265141001-MS2 - SMT WI



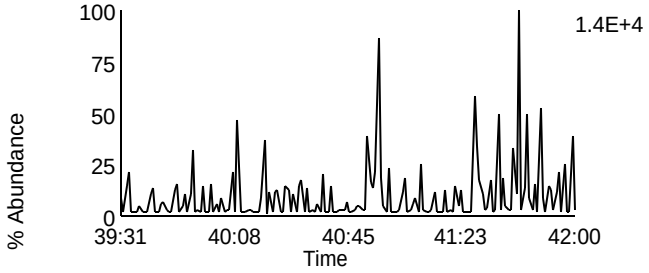
Data File: U140512A_03 G5 C12 - 471.7749
SAMP 10265141001-MS2 - SMT WI



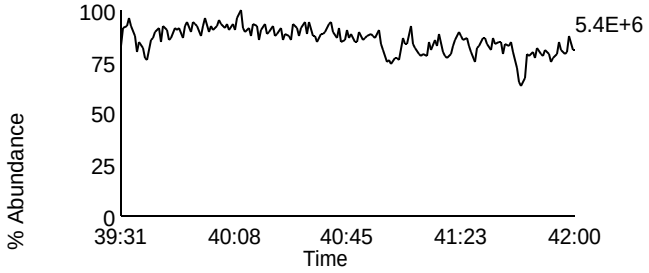
Data File: U140512A_03 G5 C12 - 471.7749
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G5 C13 - 513.6775
SAMP 10265141001-MS2 - SMT WI



Data File: U140512A_03 G5 C2 - 430.9728
SAMP 10265141001-MS2 - SMT WI

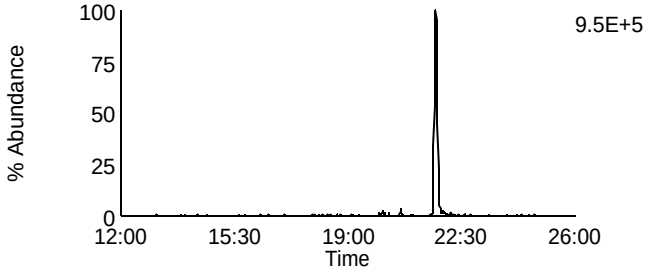


Homologue Group: Tetras

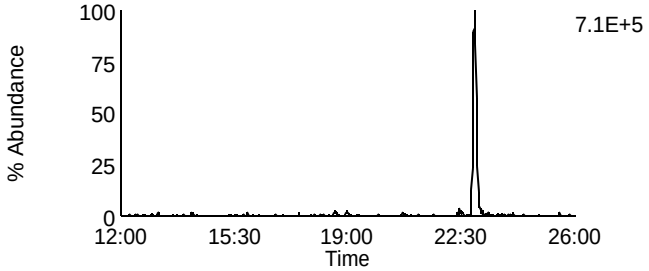
Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

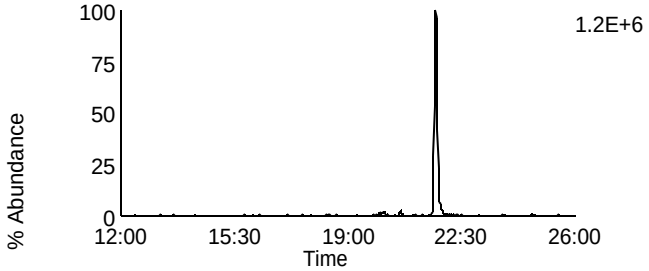
Data File: U140512A_04 G1 C1 - 303.9016
SAMP 10265141001-MSD2 - SMT WI



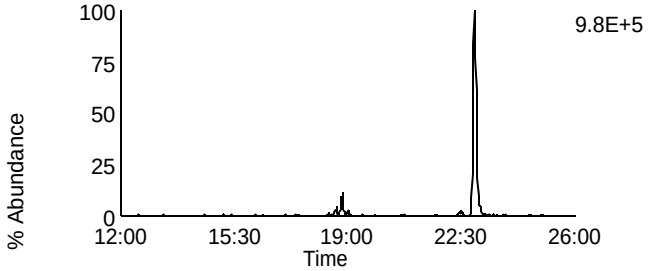
Data File: U140512A_04 G1 C7 - 319.8965
SAMP 10265141001-MSD2 - SMT WI



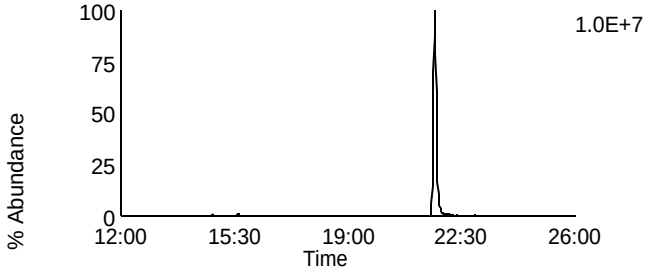
Data File: U140512A_04 G1 C2 - 305.8987
SAMP 10265141001-MSD2 - SMT WI



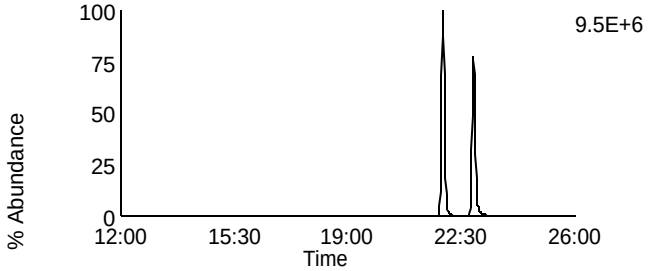
Data File: U140512A_04 G1 C8 - 321.8936
SAMP 10265141001-MSD2 - SMT WI



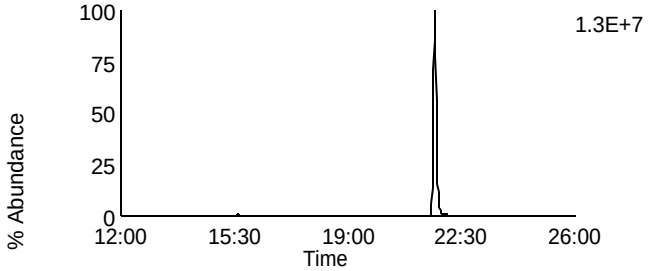
Data File: U140512A_04 G1 C3 - 315.9418
SAMP 10265141001-MSD2 - SMT WI



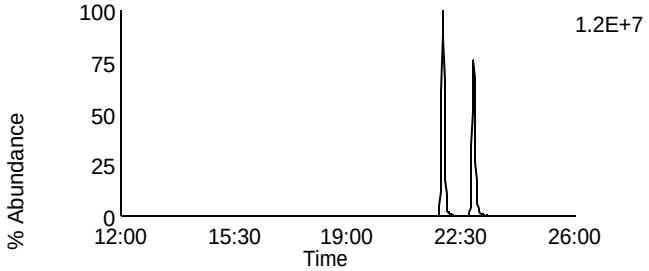
Data File: U140512A_04 G1 C10 - 331.9367
SAMP 10265141001-MSD2 - SMT WI



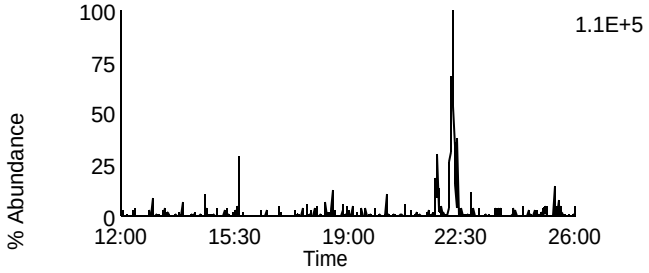
Data File: U140512A_04 G1 C4 - 317.9389
SAMP 10265141001-MSD2 - SMT WI



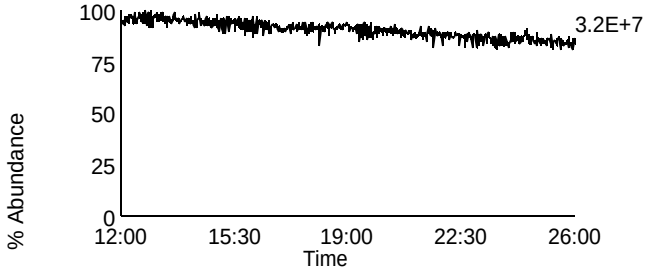
Data File: U140512A_04 G1 C11 - 333.9338
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G1 C14 - 375.8364
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G1 C5 - 318.9792
SAMP 10265141001-MSD2 - SMT WI

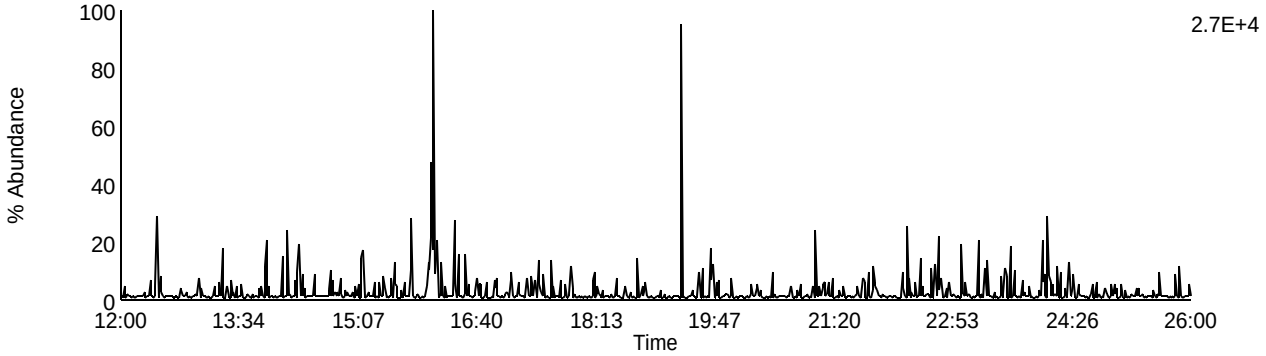


Homologue Group: Penta & Cleanup

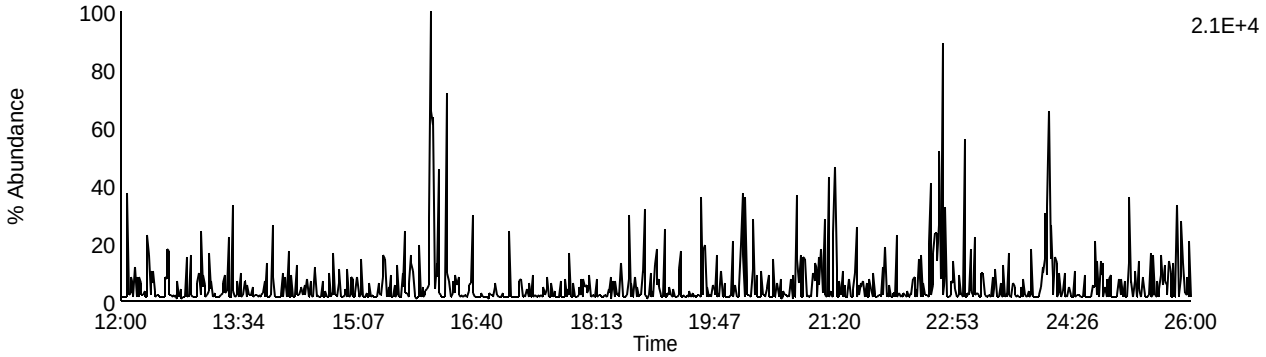
Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

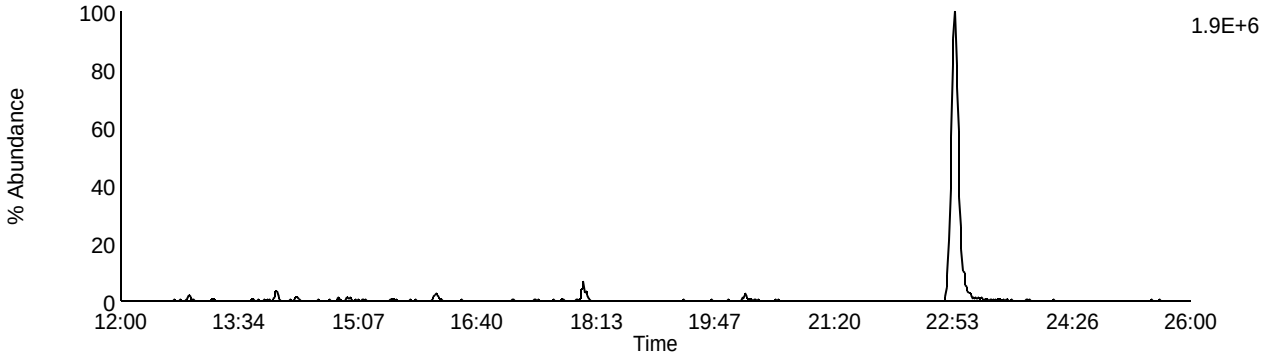
Data File: U140512A_04 G1 C12 - 339.8597
SAMP 10265141001-MSD2 - SMT WI



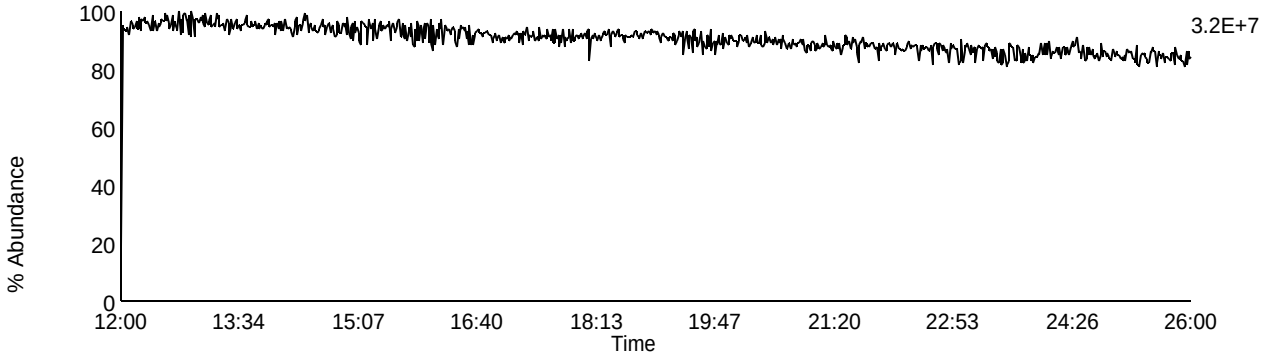
Data File: U140512A_04 G1 C13 - 341.8567
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G1 C9 - 327.8847
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G1 C5 - 318.9792
SAMP 10265141001-MSD2 - SMT WI

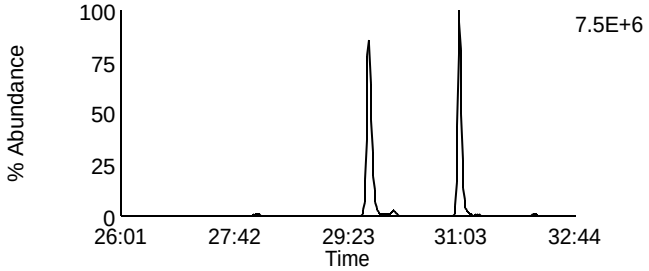


Homologue Group: Pentas

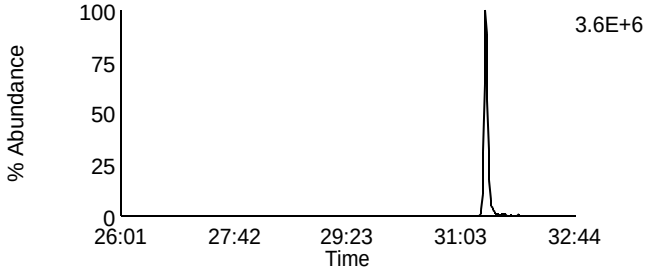
Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

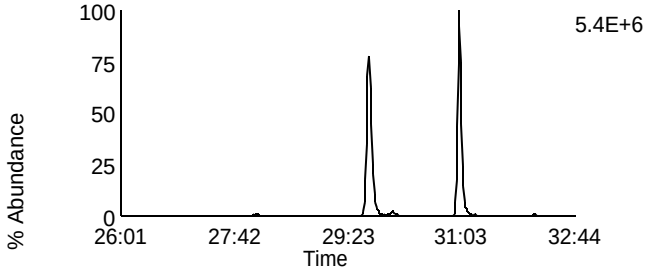
Data File: U140512A_04 G2 C1 - 339.8597
SAMP 10265141001-MSD2 - SMT WI



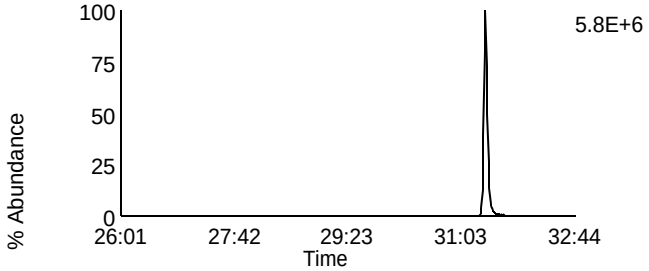
Data File: U140512A_04 G2 C4 - 353.8576
SAMP 10265141001-MSD2 - SMT WI



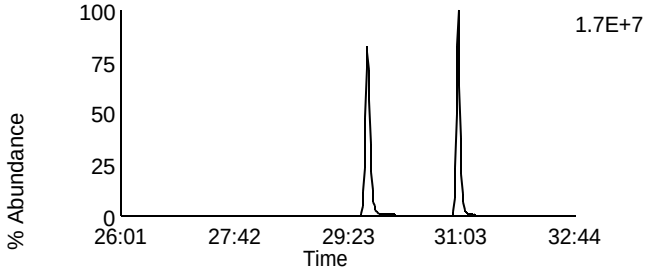
Data File: U140512A_04 G2 C2 - 341.8567
SAMP 10265141001-MSD2 - SMT WI



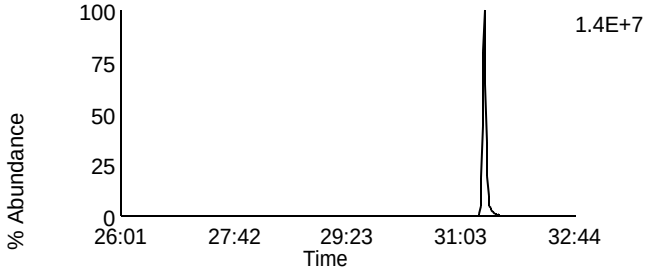
Data File: U140512A_04 G2 C8 - 355.8546
SAMP 10265141001-MSD2 - SMT WI



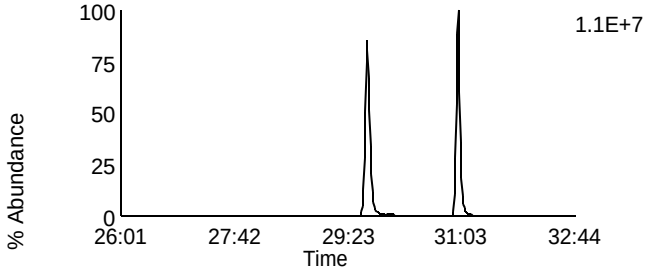
Data File: U140512A_04 G2 C3 - 351.8999
SAMP 10265141001-MSD2 - SMT WI



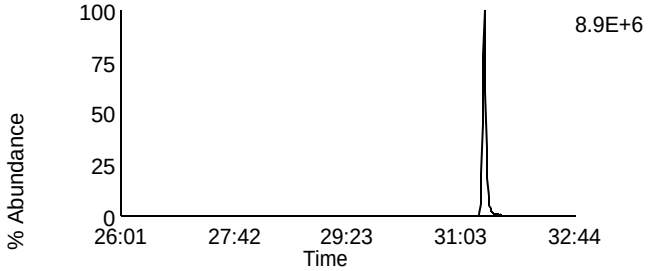
Data File: U140512A_04 G2 C10 - 367.8948
SAMP 10265141001-MSD2 - SMT WI



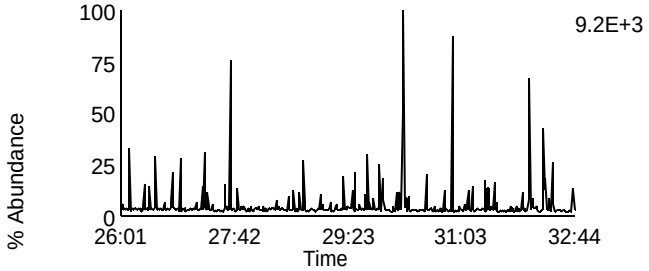
Data File: U140512A_04 G2 C5 - 353.8969
SAMP 10265141001-MSD2 - SMT WI



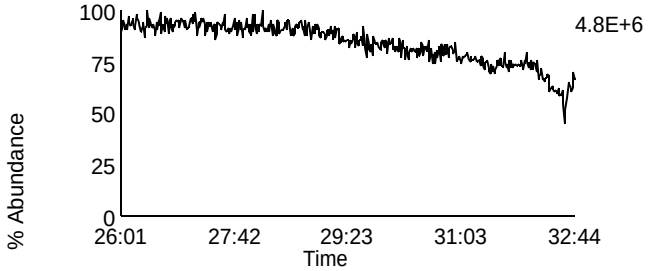
Data File: U140512A_04 G2 C11 - 369.8918
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G2 C12 - 409.7974
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G2 C6 - 354.9792
SAMP 10265141001-MSD2 - SMT WI

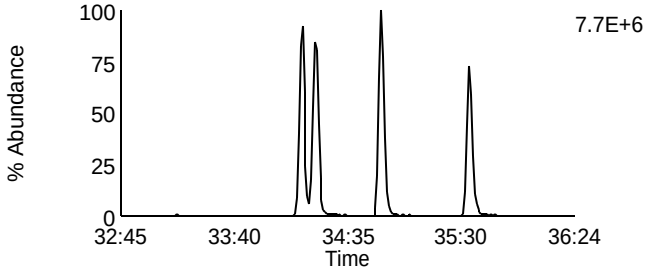


Homologue Group: Hexas

Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

Data File: U140512A_04 G3 C1 - 373.8207
SAMP 10265141001-MSD2 - SMT WI



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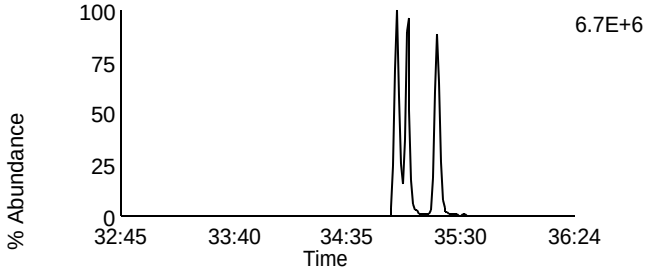
SAMP 10265141001-MSD2 - SMT WI



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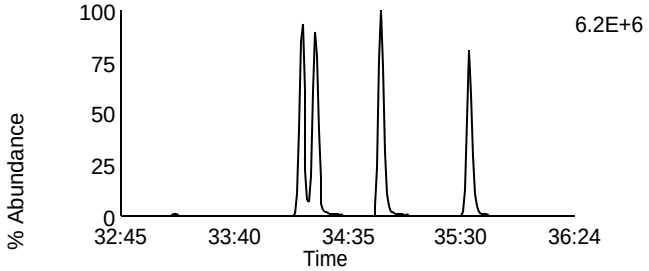
SAMP 10265141001-MSD2 - SMT WI



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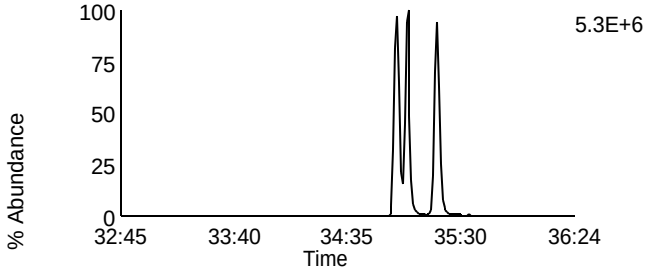
SAMP 10265141001-MSD2 - SMT WI



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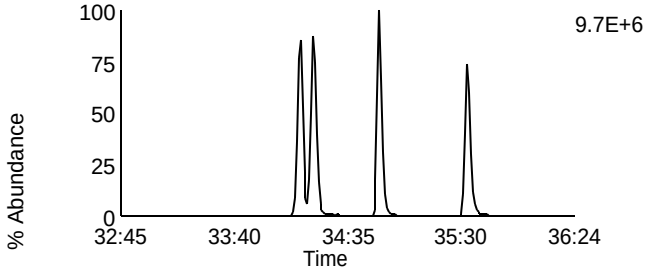
SAMP 10265141001-MSD2 - SMT WI



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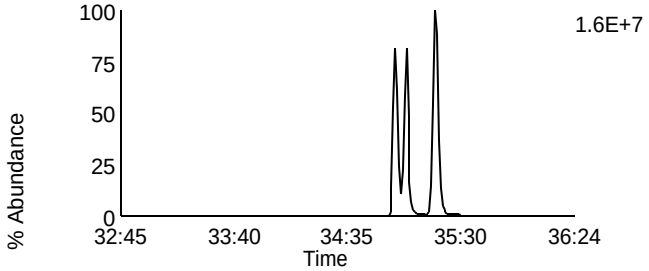
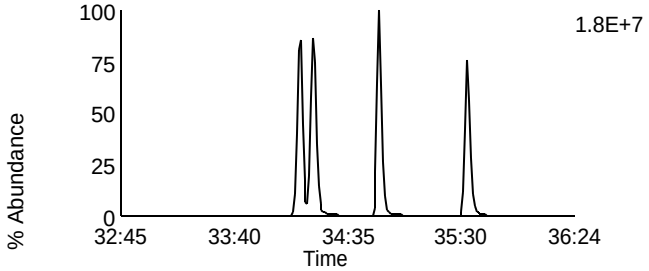
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G3 C6 - 385.861
SAMP 10265141001-MSD2 - SMT WI



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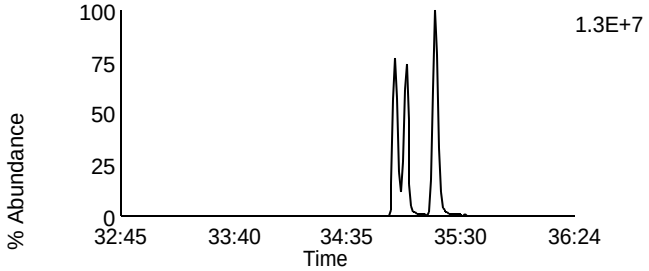
SAMP 10265141001-MSD2 - SMT WI



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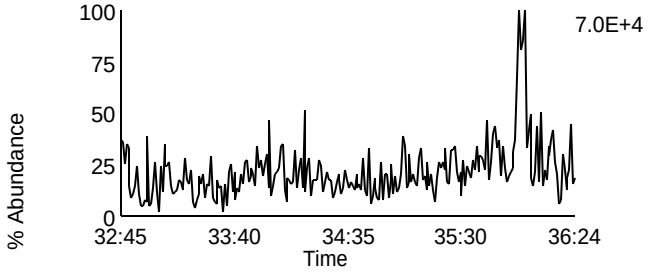
SAMP 10265141001-MSD2 - SMT WI



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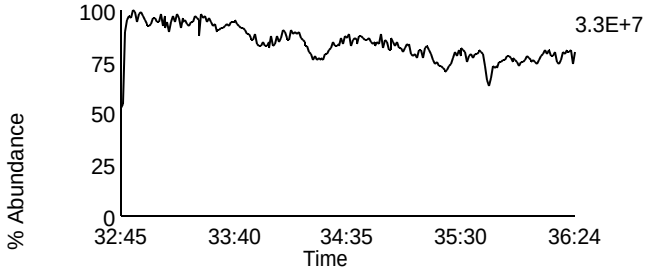
SAMP 10265141001-MSD2 - SMT WI

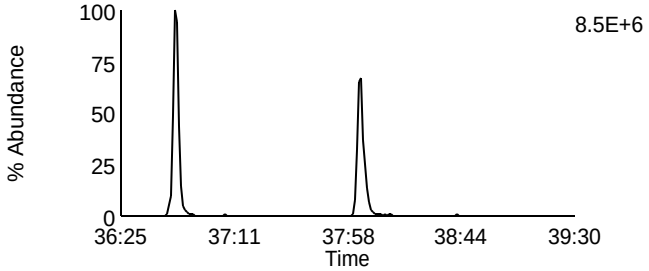


Homologue Group: Heptas

Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

Data File: U140512A_04 G4 C3 - 407.7818
SAMP 10265141001-MSD2 - SMT WI



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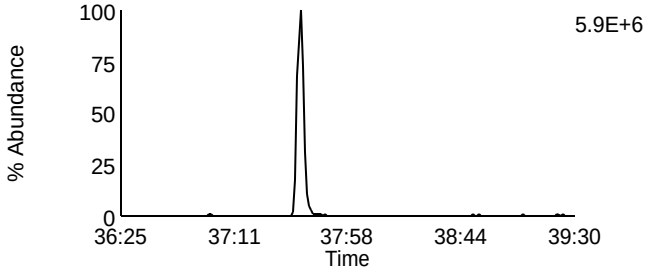
SAMP 10265141001-MSD2 - SMT WI



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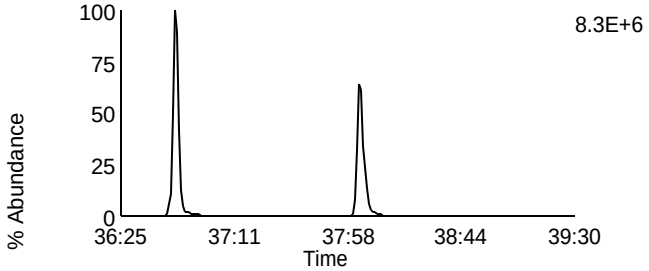
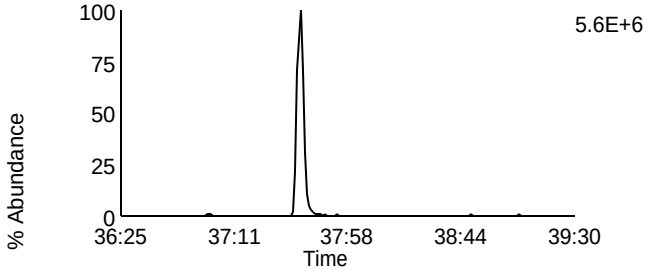
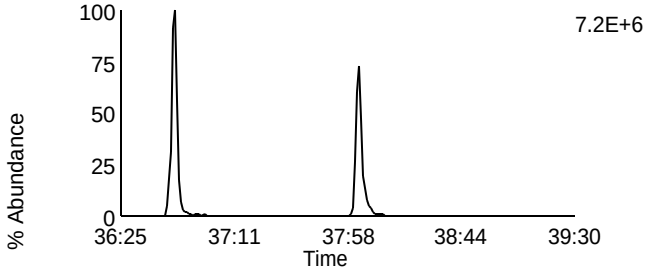
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G4 C9 - 425.7737
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G4 C6 - 417.825
SAMP 10265141001-MSD2 - SMT WI



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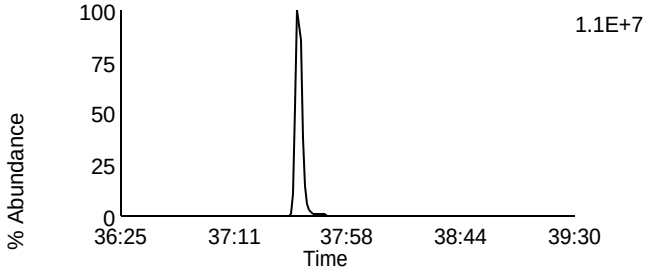
SAMP 10265141001-MSD2 - SMT WI



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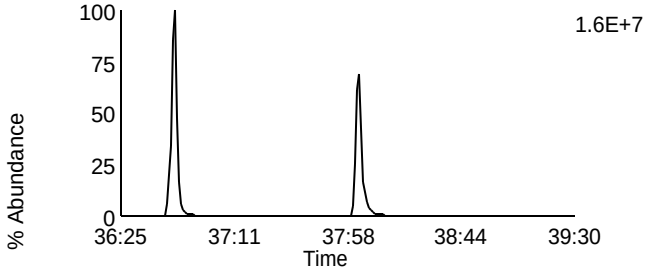
SAMP 10265141001-MSD2 - SMT WI



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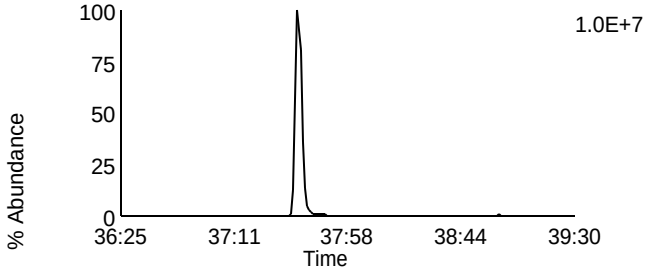
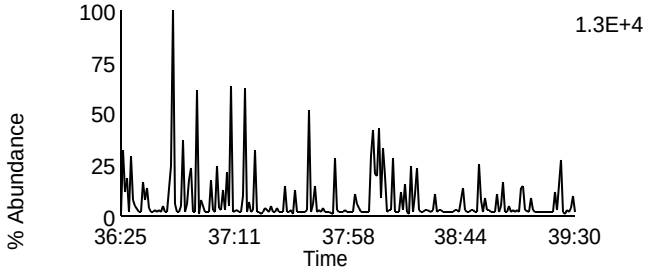
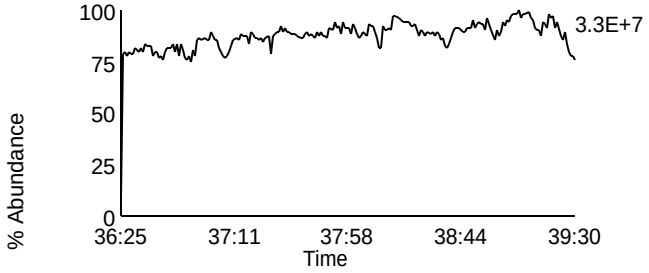
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G4 C13 - 479.7165
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G4 C1 - 380.976
SAMP 10265141001-MSD2 - SMT WI

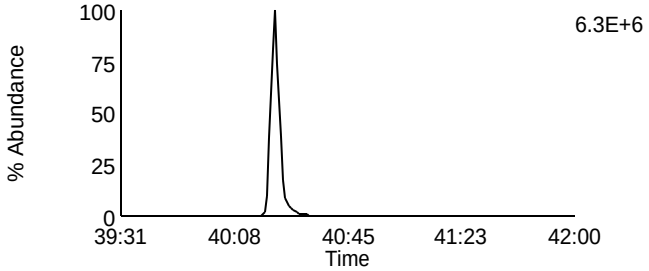


Homologue Group: Octas

Data File Name: U140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141001-MSD2 - SMT WI

Lab Sample ID: 10265141001-MSD2
Client Sample ID: MAK109O-MSD
Instrument: 10MSHR06 (U)

Data File: U140512A_04 G5 C4 - 441.7428
SAMP 10265141001-MSD2 - SMT WI



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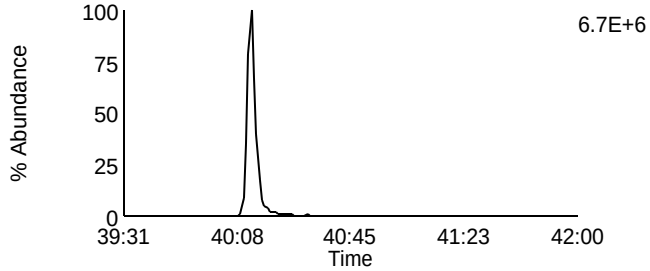
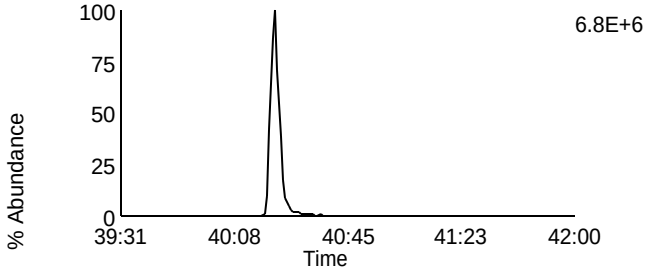
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G5 C5 - 443.7398
SAMP 10265141001-MSD2 - SMT WI



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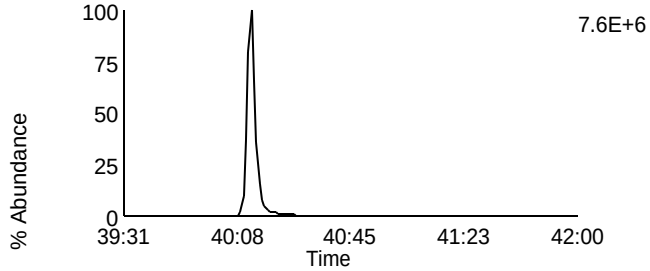
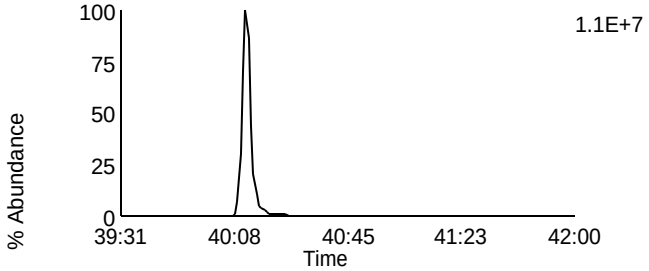
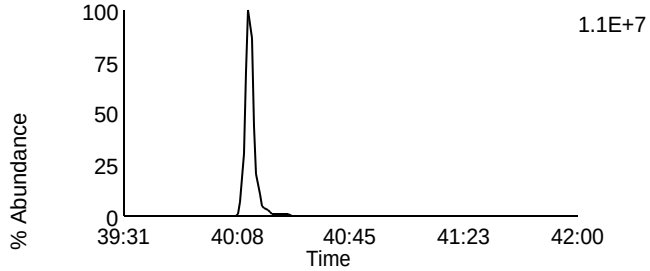
SAMP 10265141001-MSD2 - SMT WI



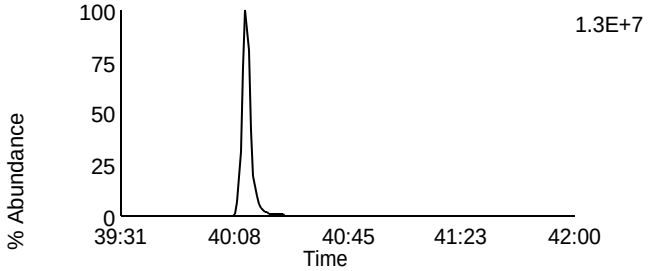
Data File: U140512A_04 G5 C11 - 469.7779
SAMP 10265141001-MSD2 - SMT WI



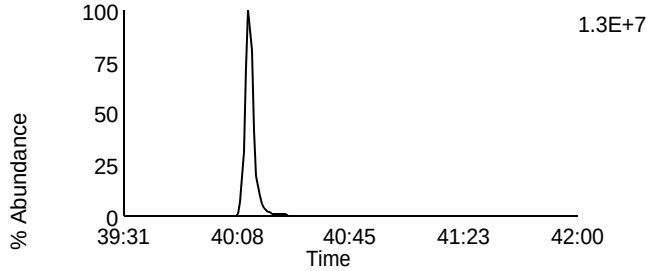
Data File: U140512A_04 G5 C11 - 469.7779
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G5 C12 - 471.7749
SAMP 10265141001-MSD2 - SMT WI



Data File: U140512A_04 G5 C12 - 471.7749
SAMP 10265141001-MSD2 - SMT WI



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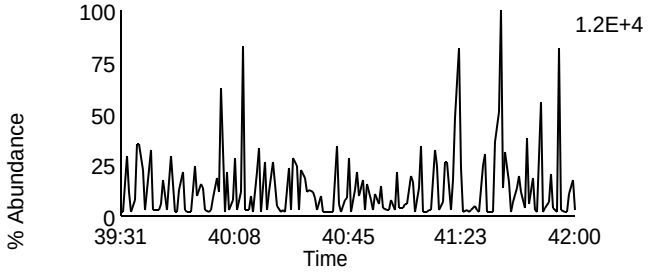
SAMP 10265141001-MSD2 - SMT WI



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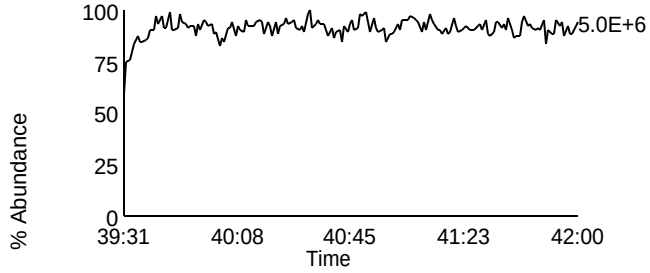
SAMP 10265141001-MSD2 - SMT WI

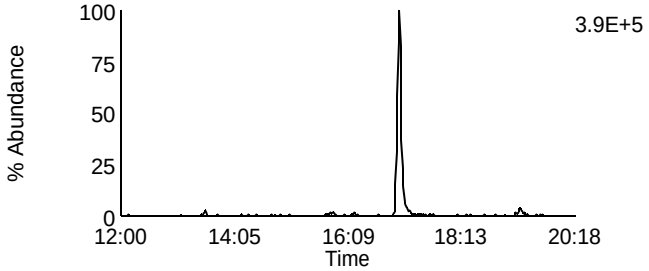


Homologue Group: Tetras

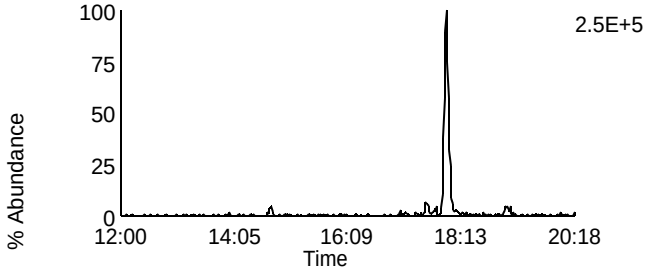
Data File Name: F140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MS2 - SMT WI

Lab Sample ID: 10265141012-MS2
Client Sample ID: MAK120O-MS
Instrument: 10MSHR05 (F)

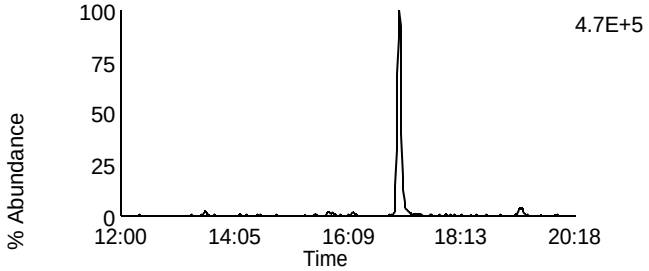
Data File: F140512A_04 G1 C1 - 303.9016
SAMP 10265141012-MS2 - SMT WI



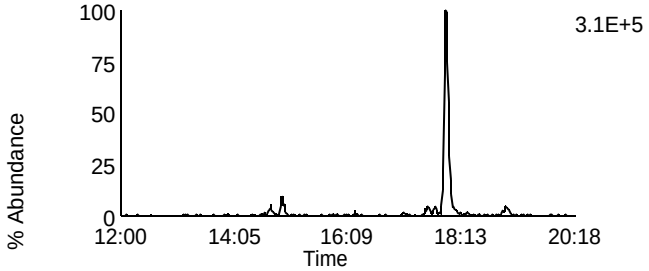
Data File: F140512A_04 G1 C7 - 319.8965
SAMP 10265141012-MS2 - SMT WI



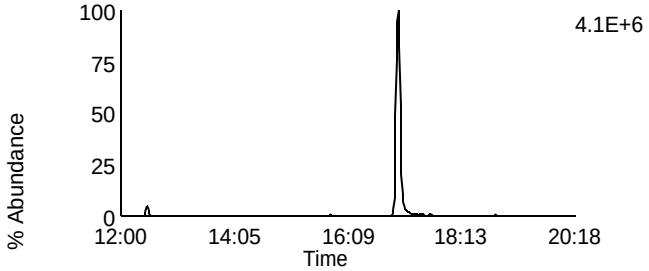
Data File: F140512A_04 G1 C2 - 305.8987
SAMP 10265141012-MS2 - SMT WI



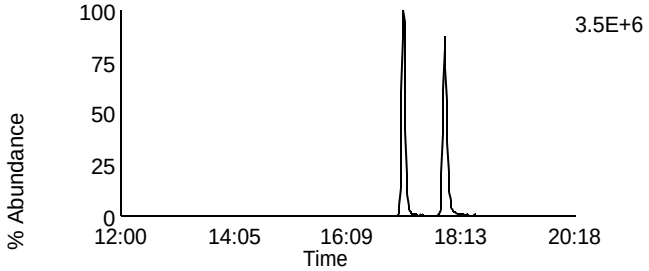
Data File: F140512A_04 G1 C8 - 321.8936
SAMP 10265141012-MS2 - SMT WI



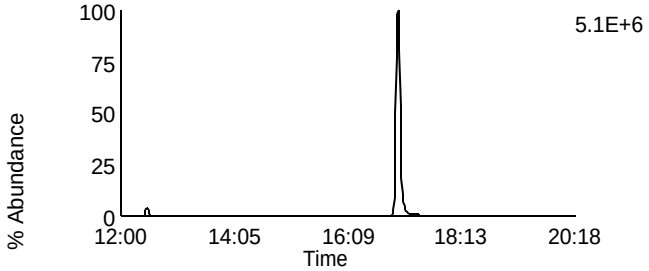
Data File: F140512A_04 G1 C3 - 315.9418
SAMP 10265141012-MS2 - SMT WI



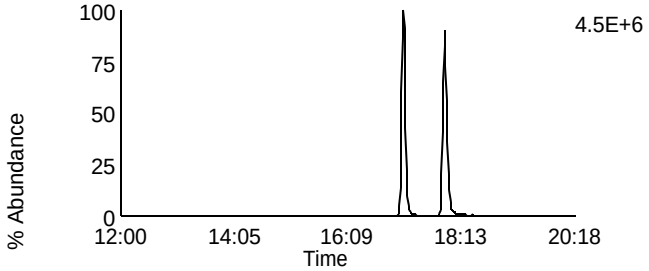
Data File: F140512A_04 G1 C10 - 331.9367
SAMP 10265141012-MS2 - SMT WI



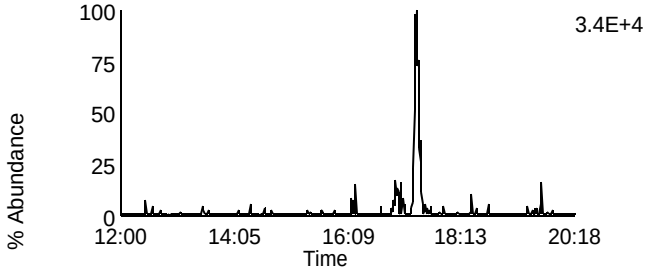
Data File: F140512A_04 G1 C4 - 317.9389
SAMP 10265141012-MS2 - SMT WI



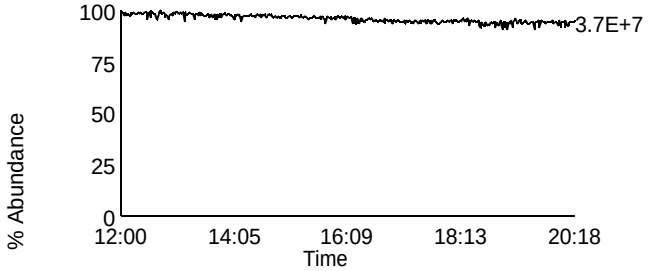
Data File: F140512A_04 G1 C11 - 333.9338
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G1 C14 - 375.8364
SAMP 10265141012-MS2 - SMT WI



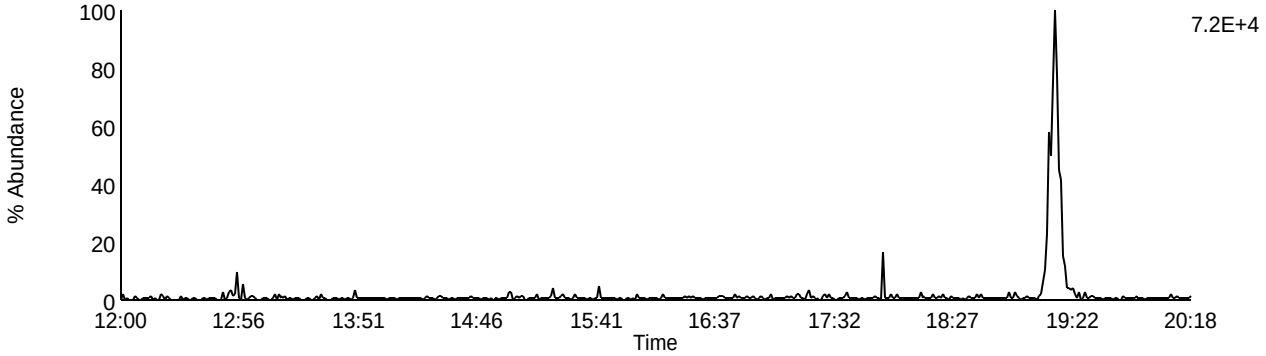
Data File: F140512A_04 G1 C5 - 318.9792
SAMP 10265141012-MS2 - SMT WI



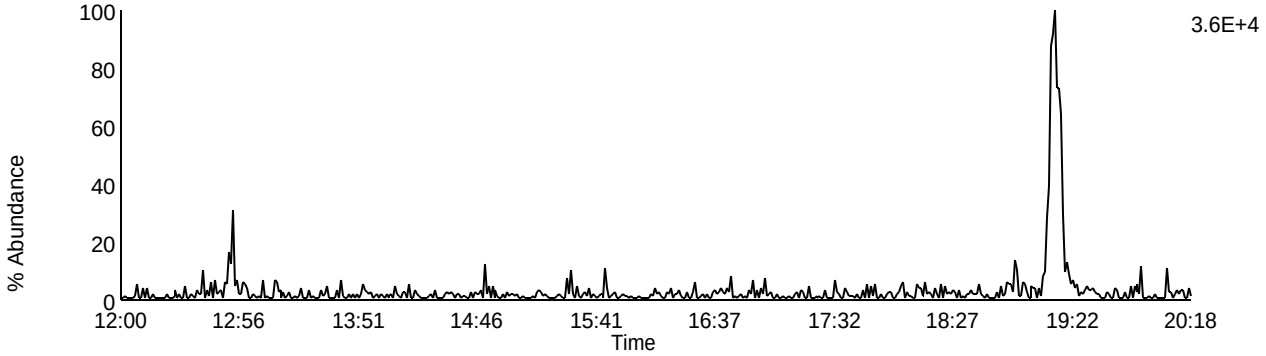
Homologue Group: Penta & Cleanup

Data File Name: F140512A_04	Lab Sample ID: 10265141012-MS2
Date Acquired: 5/12/2014	Client Sample ID: MAK120O-MS
Sample Description: SAMP 10265141012-MS2 - SMT WI	Instrument: 10MSHR05 (F)

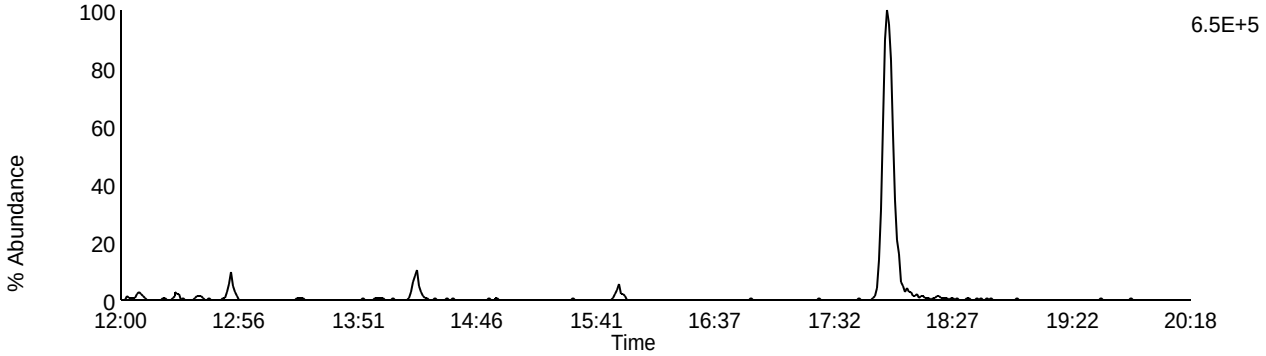
Data File: F140512A_04 G1 C12 - 339.8597
SAMP 10265141012-MS2 - SMT WI



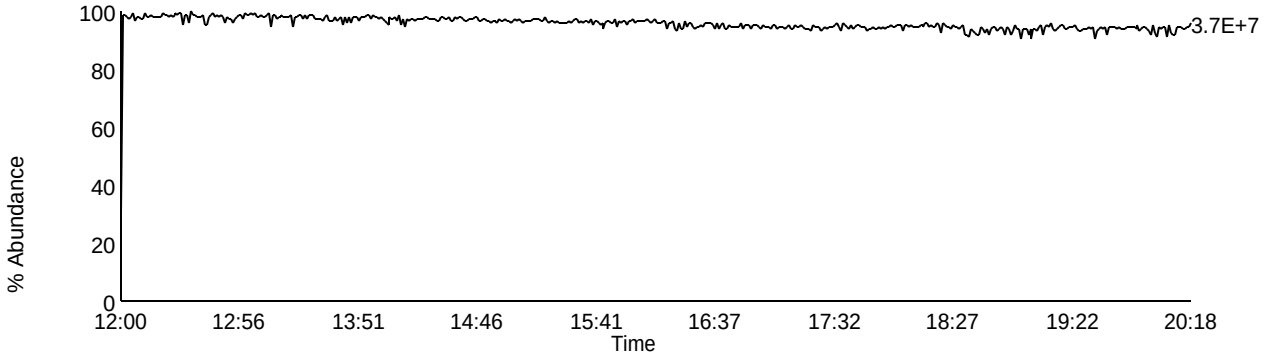
Data File: F140512A_04 G1 C13 - 341.8567
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G1 C9 - 327.8847
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G1 C5 - 318.9792
SAMP 10265141012-MS2 - SMT WI

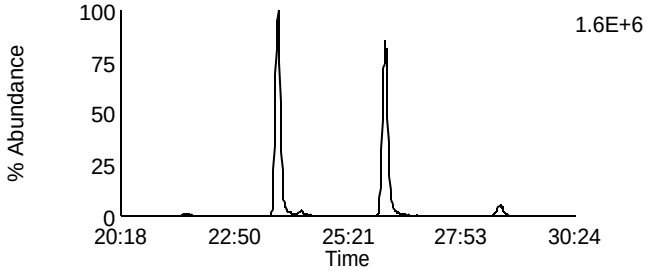


Homologue Group: Pentas

Data File Name: F140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MS2 - SMT WI

Lab Sample ID: 10265141012-MS2
Client Sample ID: MAK120O-MS
Instrument: 10MSHR05 (F)

Data File: F140512A_04 G2 C1 - 339.8597
SAMP 10265141012-MS2 - SMT WI



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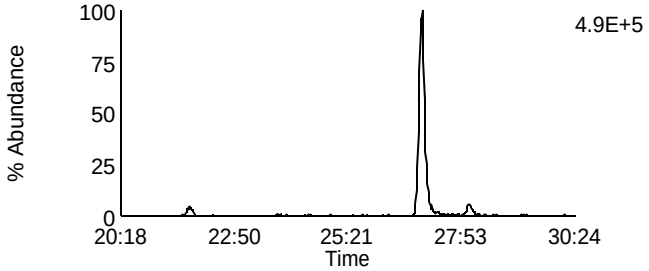
SAMP 10265141012-MS2 - SMT WI



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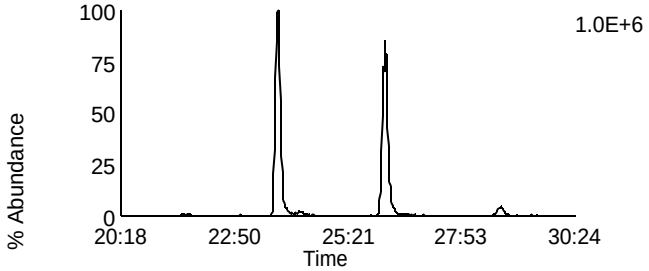
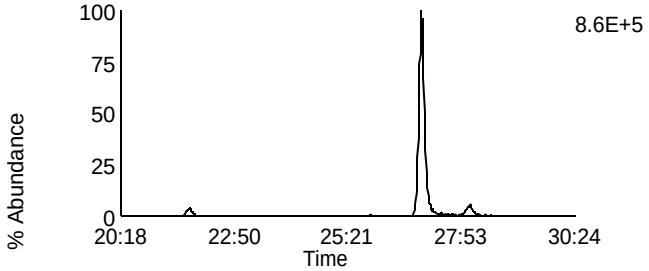
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G2 C8 - 355.8546
SAMP 10265141012-MS2 - SMT WI



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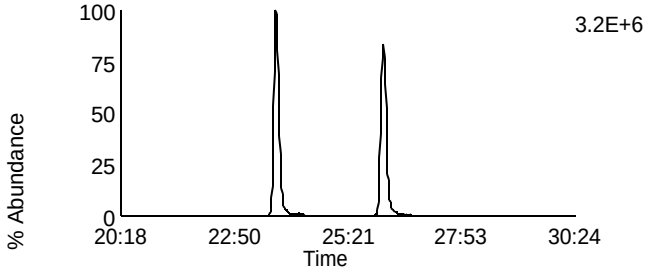
SAMP 10265141012-MS2 - SMT WI



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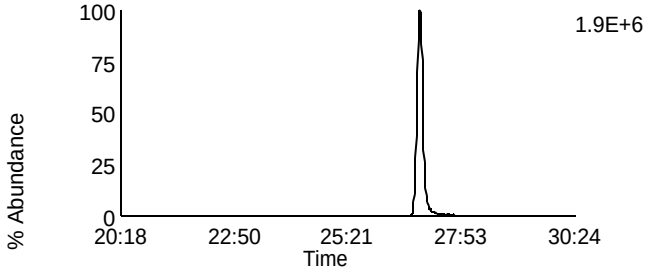
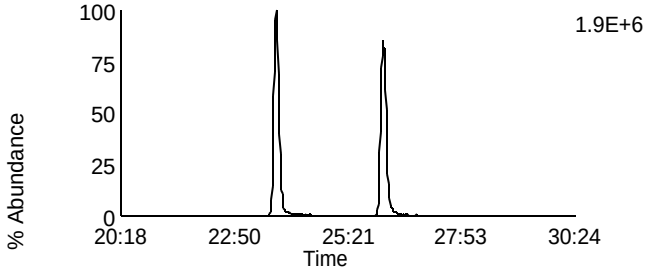
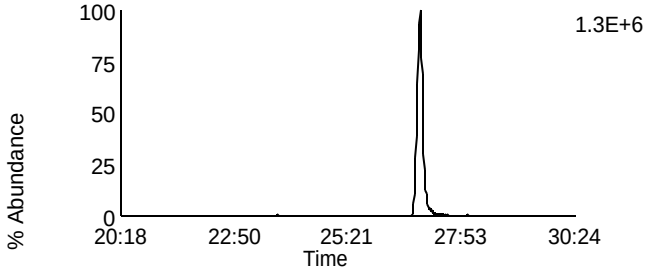
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G2 C5 - 353.8969
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G2 C11 - 369.8918
SAMP 10265141012-MS2 - SMT WI



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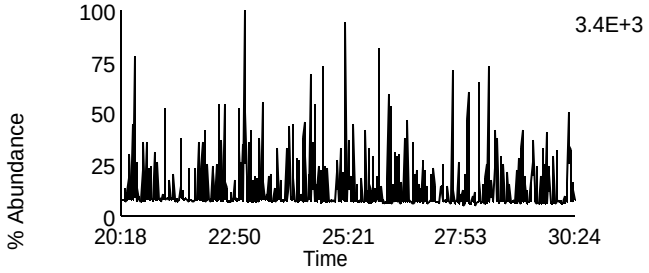
SAMP 10265141012-MS2 - SMT WI



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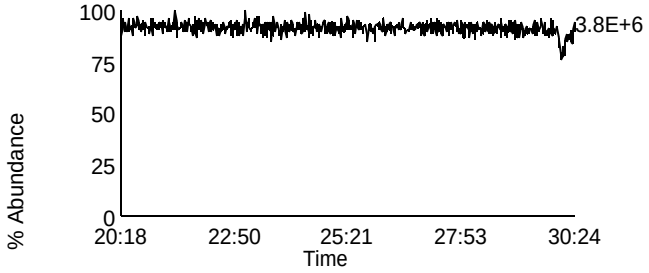
SAMP 10265141012-MS2 - SMT WI

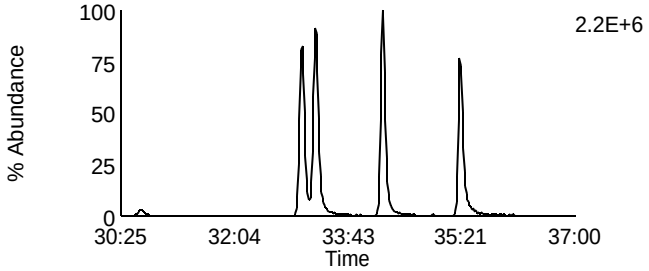


Homologue Group: Hexas

Data File Name: F140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MS2 - SMT WI

Lab Sample ID: 10265141012-MS2
Client Sample ID: MAK120O-MS
Instrument: 10MSHR05 (F)

Data File: F140512A_04 G3 C1 - 373.8207
SAMP 10265141012-MS2 - SMT WI



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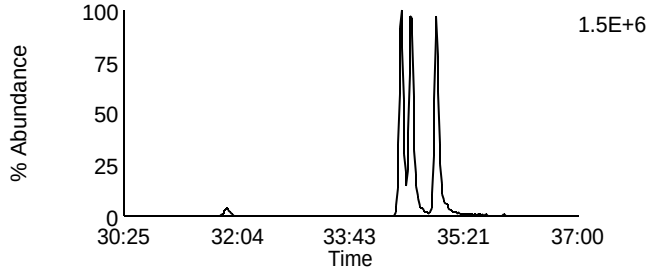
SAMP 10265141012-MS2 - SMT WI



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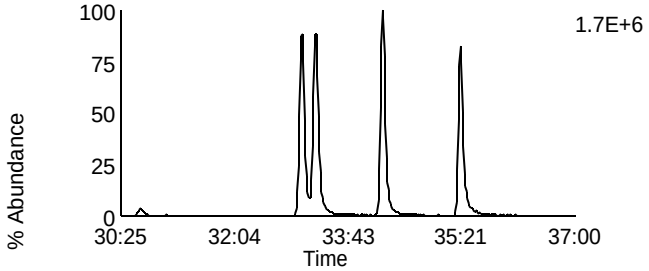
SAMP 10265141012-MS2 - SMT WI



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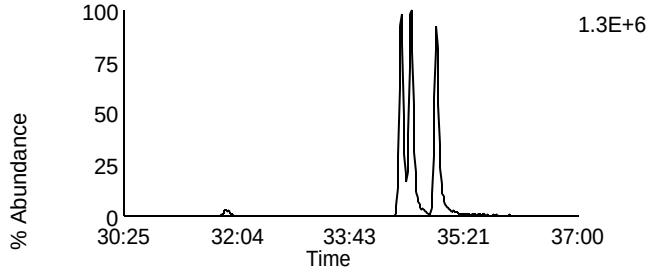
SAMP 10265141012-MS2 - SMT WI



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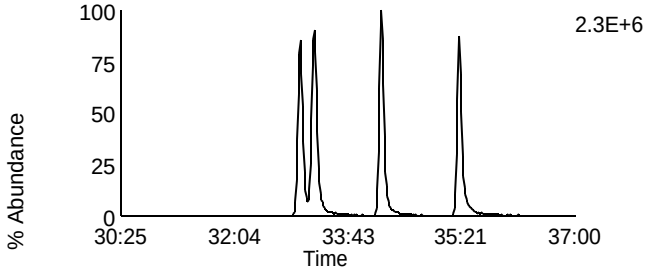
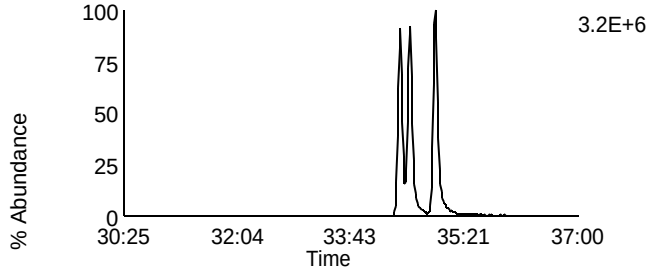
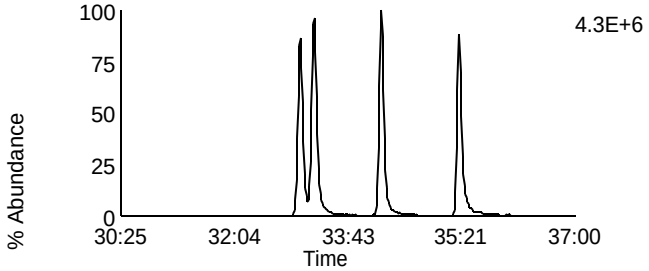
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G3 C9 - 401.8559
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G3 C6 - 385.861
SAMP 10265141012-MS2 - SMT WI



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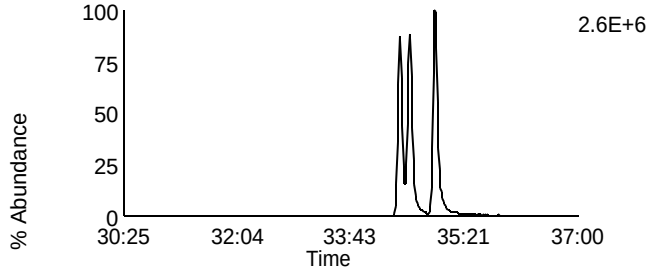
SAMP 10265141012-MS2 - SMT WI



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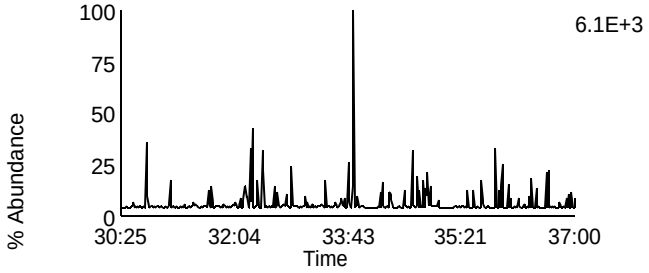
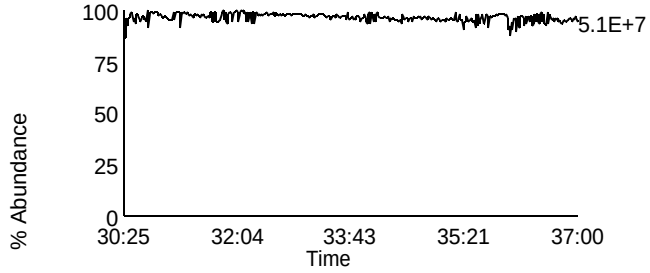
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G3 C3 - 380.976
SAMP 10265141012-MS2 - SMT WI

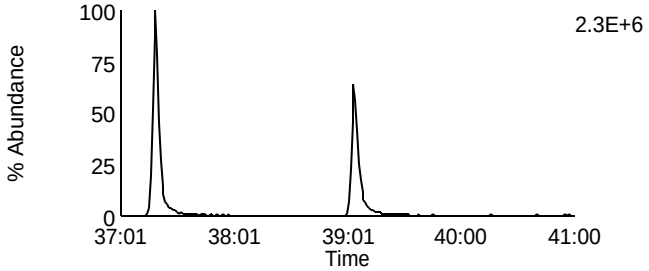


Homologue Group: Heptas

Data File Name: F140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MS2 - SMT WI

Lab Sample ID: 10265141012-MS2
Client Sample ID: MAK120O-MS
Instrument: 10MSHR05 (F)

Data File: F140512A_04 G4 C3 - 407.7818
SAMP 10265141012-MS2 - SMT WI



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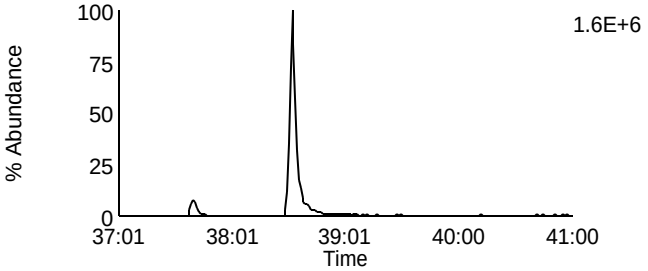
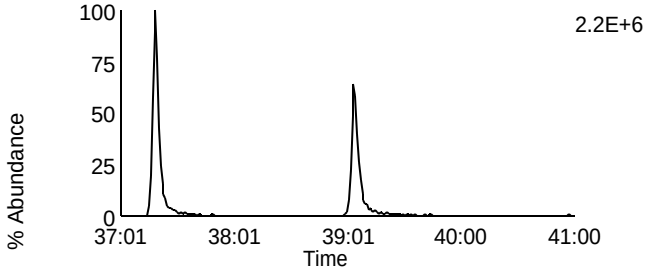
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G4 C4 - 409.7788
SAMP 10265141012-MS2 - SMT WI



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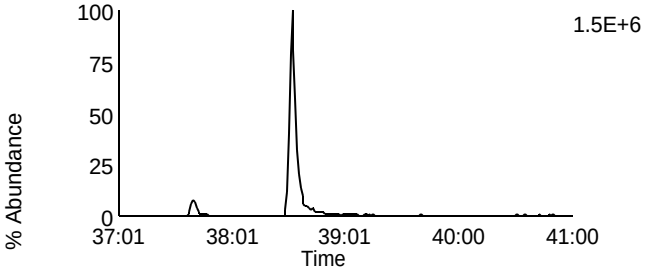
SAMP 10265141012-MS2 - SMT WI



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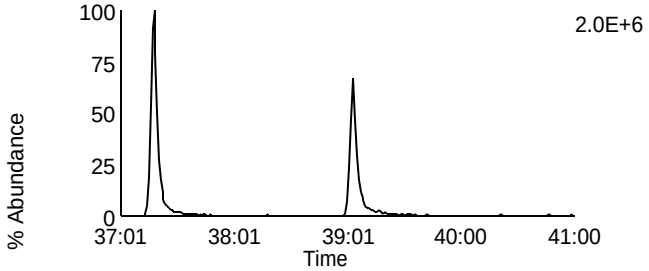
SAMP 10265141012-MS2 - SMT WI



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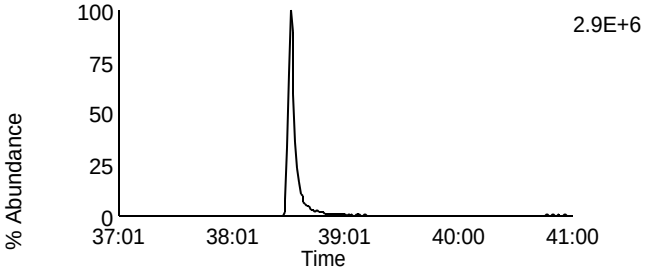
SAMP 10265141012-MS2 - SMT WI



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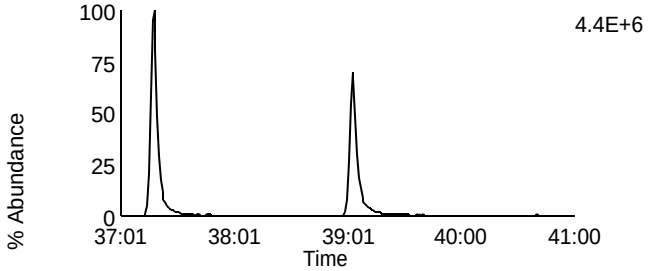
SAMP 10265141012-MS2 - SMT WI



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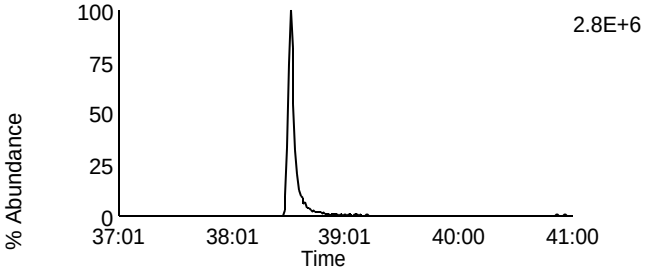
SAMP 10265141012-MS2 - SMT WI



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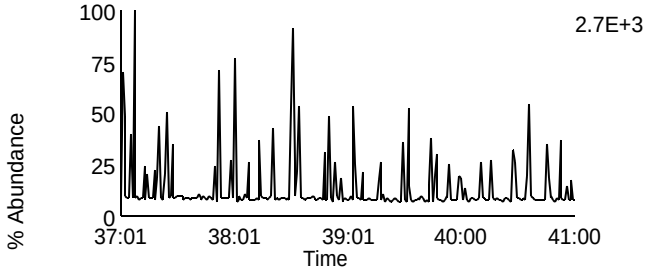
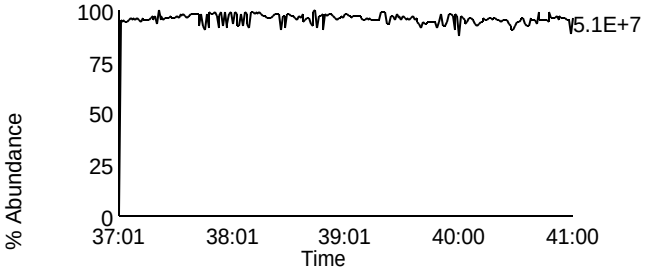
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G4 C1 - 380.976
SAMP 10265141012-MS2 - SMT WI

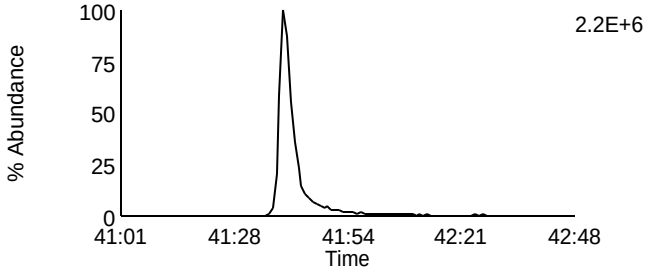


Homologue Group: Octas

Data File Name: F140512A_04
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MS2 - SMT WI

Lab Sample ID: 10265141012-MS2
Client Sample ID: MAK120O-MS
Instrument: 10MSHR05 (F)

Data File: F140512A_04 G5 C4 - 441.7428
SAMP 10265141012-MS2 - SMT WI



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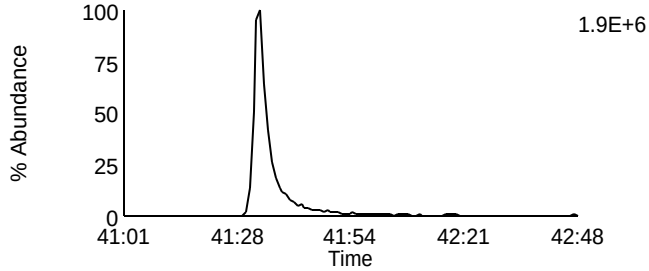
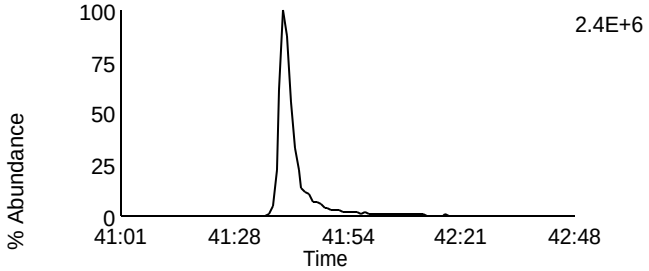
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G5 C5 - 443.7398
SAMP 10265141012-MS2 - SMT WI



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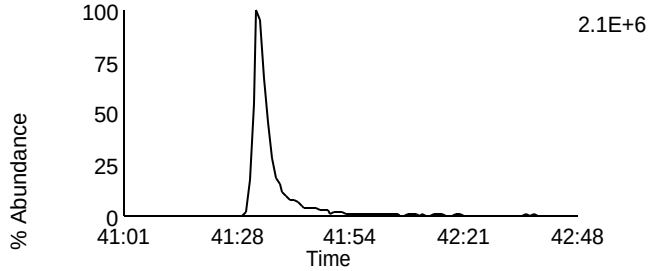
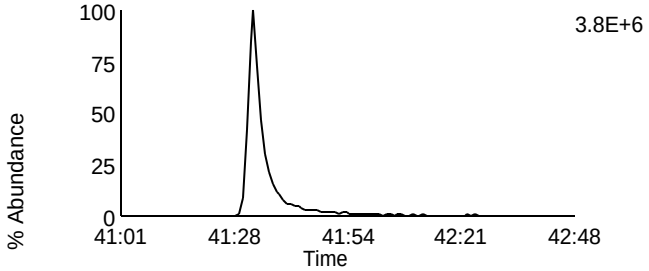
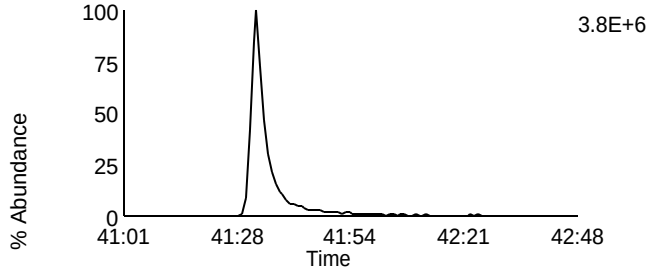
SAMP 10265141012-MS2 - SMT WI



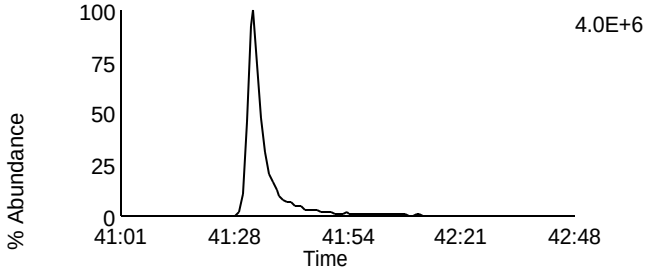
Data File: F140512A_04 G5 C11 - 469.7779
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G5 C11 - 469.7779
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G5 C12 - 471.7749
SAMP 10265141012-MS2 - SMT WI



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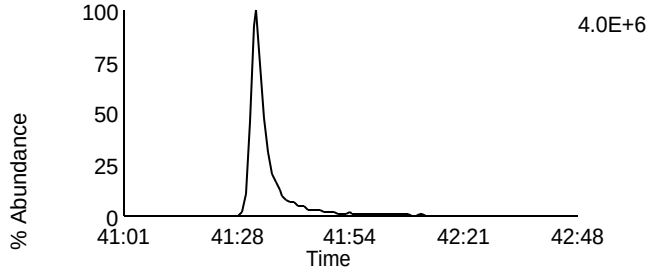
SAMP 10265141012-MS2 - SMT WI



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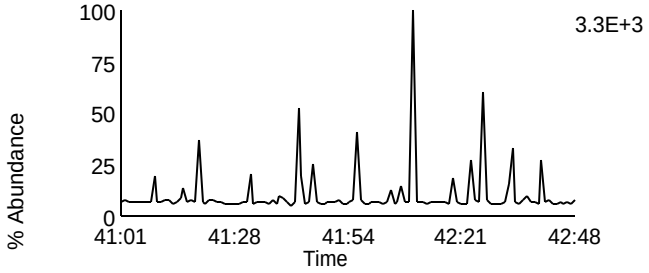
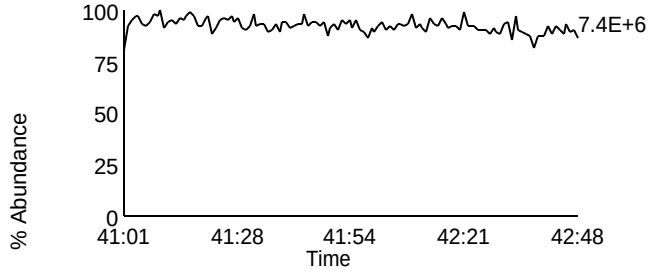
SAMP 10265141012-MS2 - SMT WI



Data File: F140512A_04 G5 C2 - 430.9728
SAMP 10265141012-MS2 - SMT WI

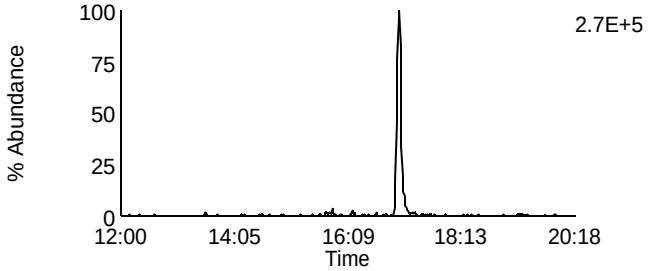


Homologue Group: Tetras

Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

Data File: F140512A_05 G1 C1 - 303.9016
SAMP 10265141012-MSD2 - SMT WI



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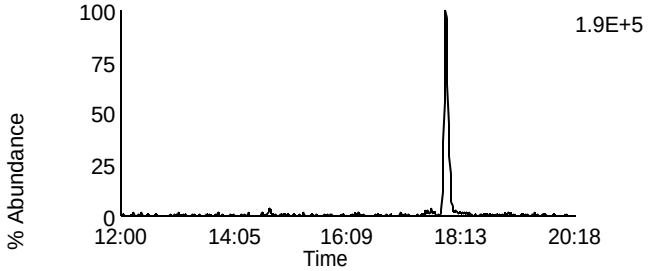
SAMP 10265141012-MSD2 - SMT WI



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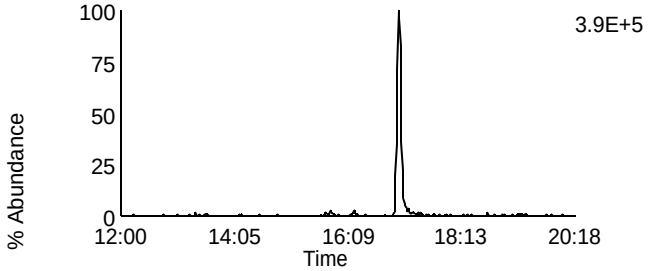
SAMP 10265141012-MSD2 - SMT WI



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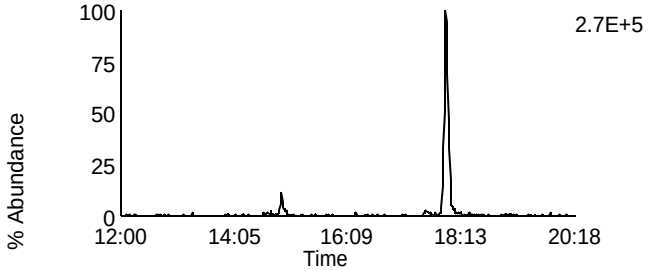
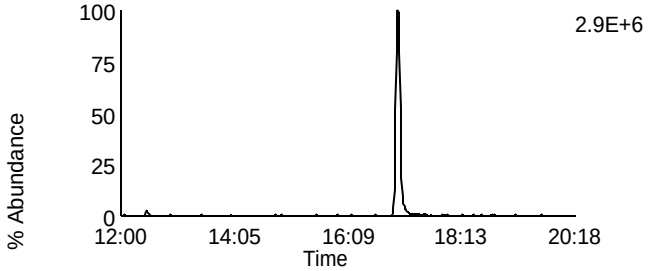
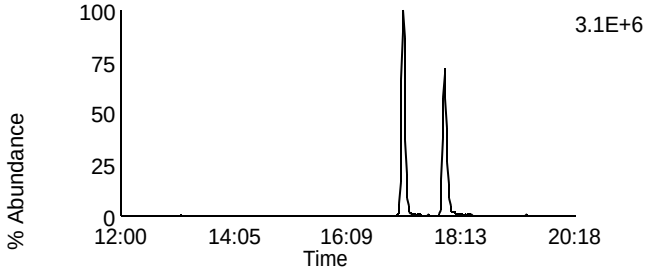
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C3 - 315.9418
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C10 - 331.9367
SAMP 10265141012-MSD2 - SMT WI



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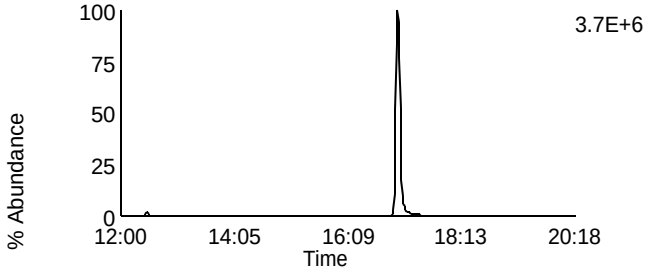
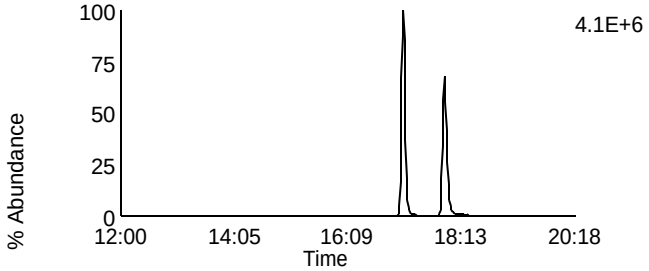
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C11 - 333.9338
SAMP 10265141012-MSD2 - SMT WI



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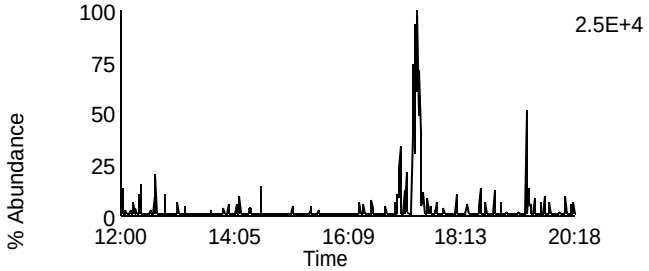
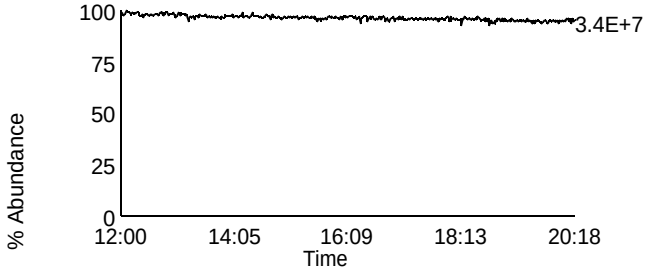
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C5 - 318.9792
SAMP 10265141012-MSD2 - SMT WI

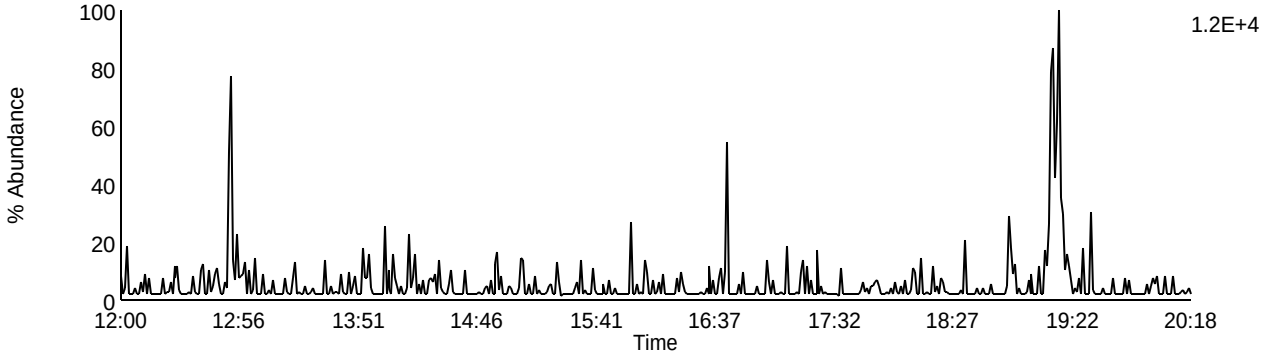


Homologue Group: Penta & Cleanup

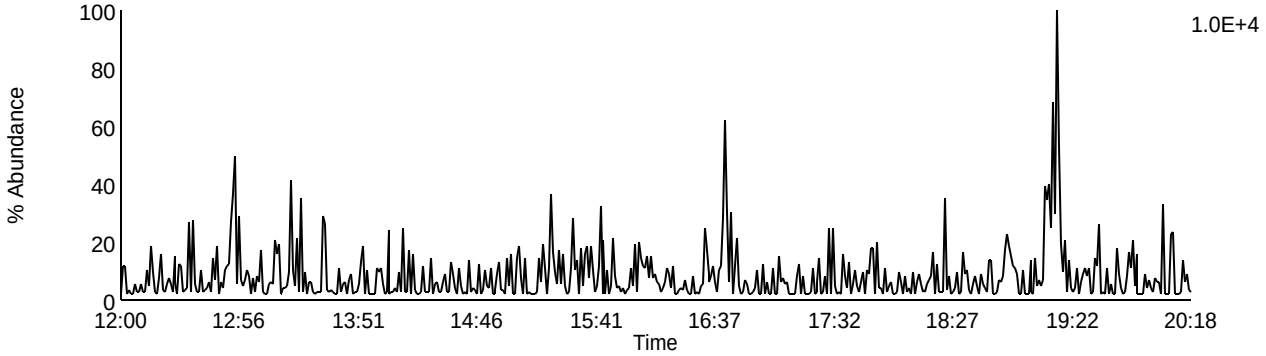
Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

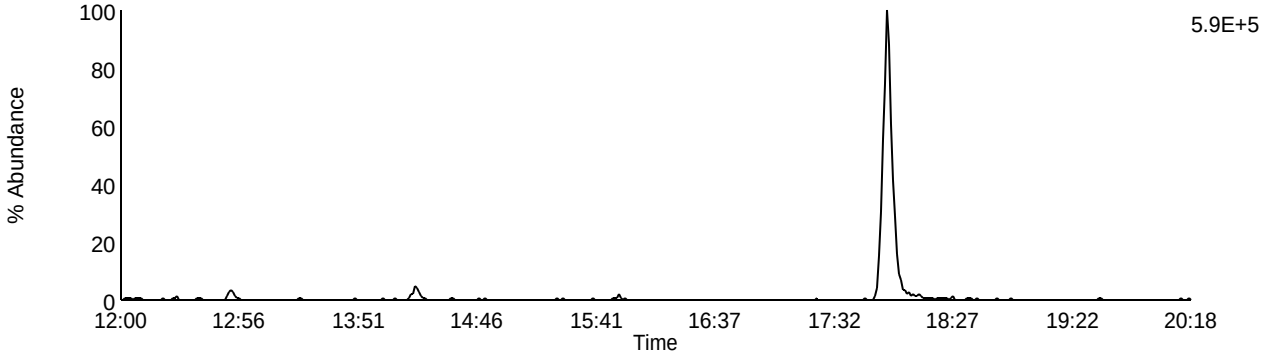
Data File: F140512A_05 G1 C12 - 339.8597
SAMP 10265141012-MSD2 - SMT WI



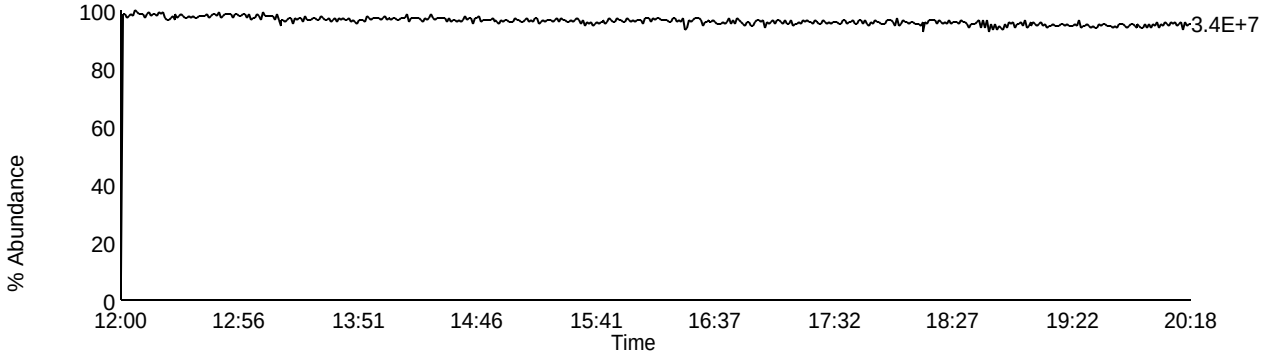
Data File: F140512A_05 G1 C13 - 341.8567
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C9 - 327.8847
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G1 C5 - 318.9792
SAMP 10265141012-MSD2 - SMT WI

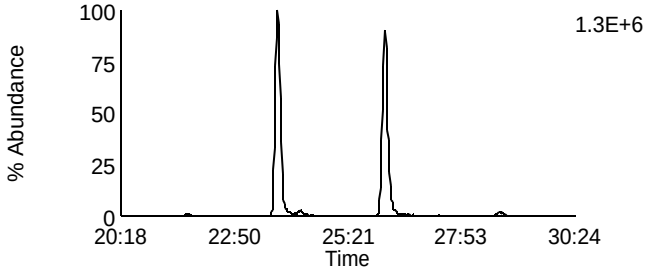


Homologue Group: Pentas

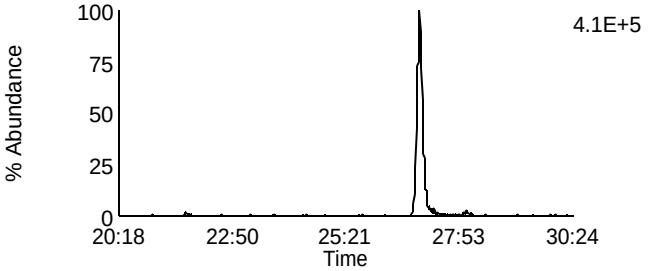
Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

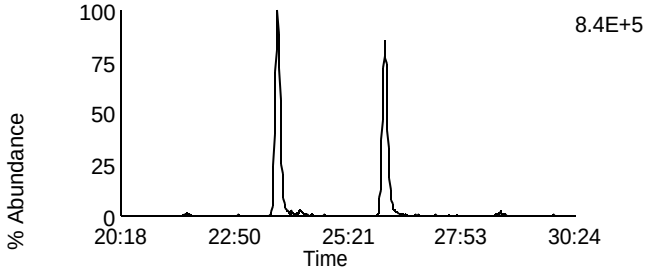
Data File: F140512A_05 G2 C1 - 339.8597
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C4 - 353.8576
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C2 - 341.8567
SAMP 10265141012-MSD2 - SMT WI



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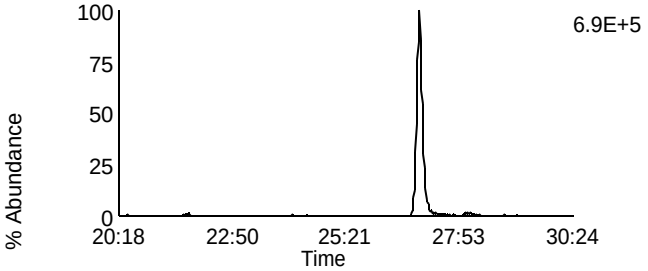
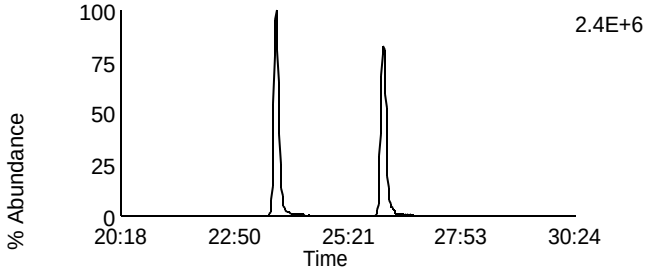
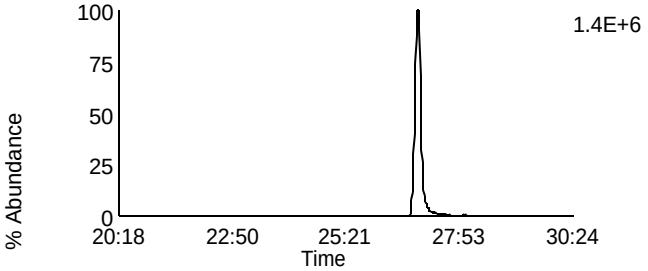
SAMP 10265141012-MSD2 - SMT WI



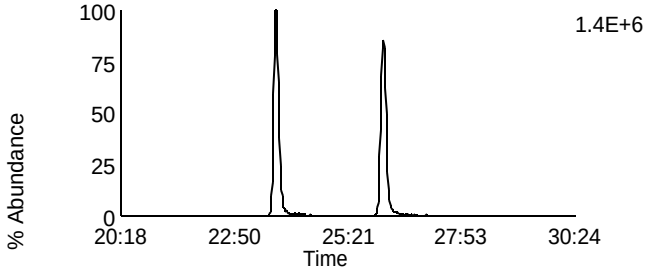
Data File: F140512A_05 G2 C3 - 351.8999
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C10 - 367.8948
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C5 - 353.8969
SAMP 10265141012-MSD2 - SMT WI



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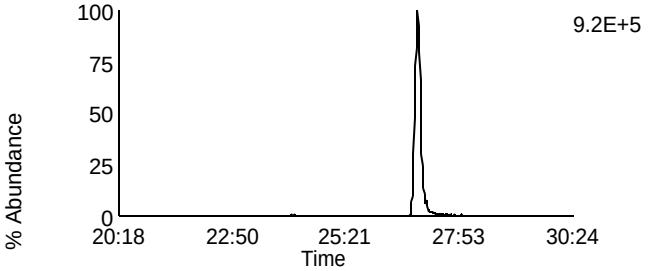
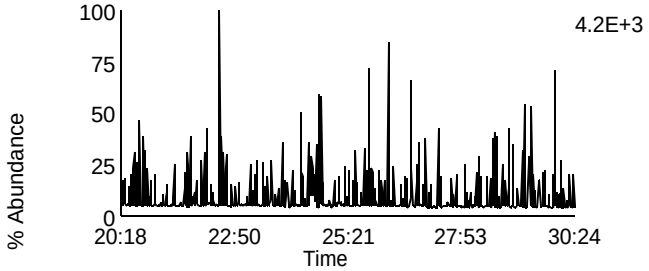
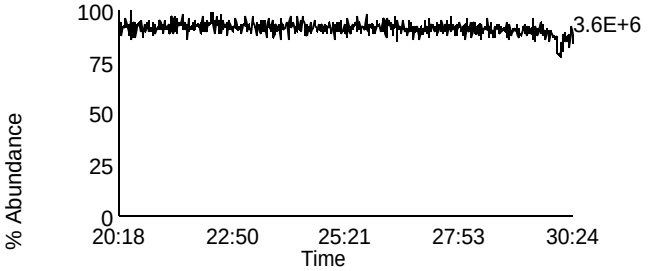
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C12 - 409.7974
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G2 C6 - 354.9792
SAMP 10265141012-MSD2 - SMT WI

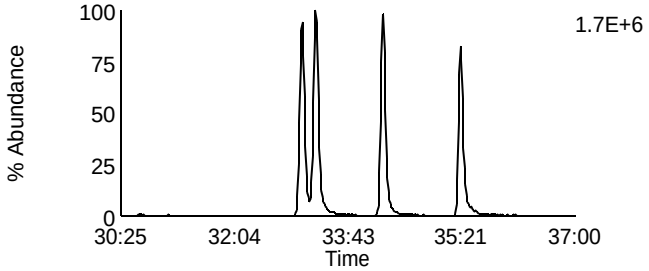


Homologue Group: Hexas

Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

Data File: F140512A_05 G3 C1 - 373.8207
SAMP 10265141012-MSD2 - SMT WI



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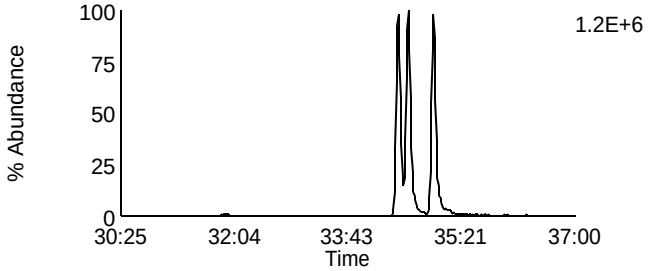
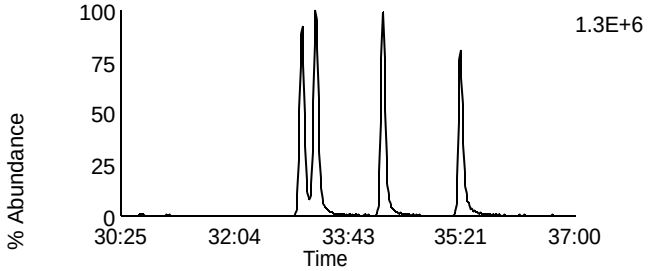
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G3 C2 - 375.8178
SAMP 10265141012-MSD2 - SMT WI



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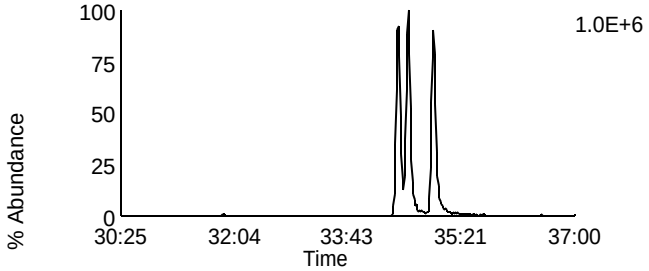
SAMP 10265141012-MSD2 - SMT WI



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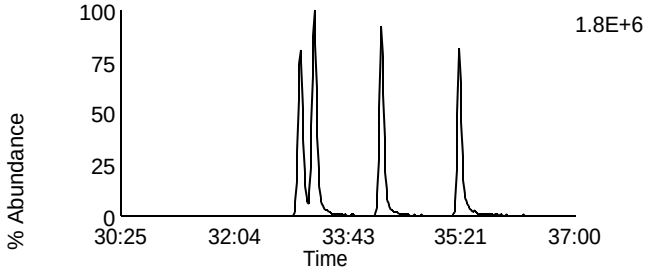
SAMP 10265141012-MSD2 - SMT WI



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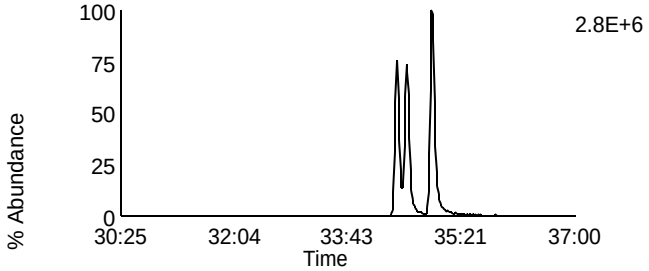
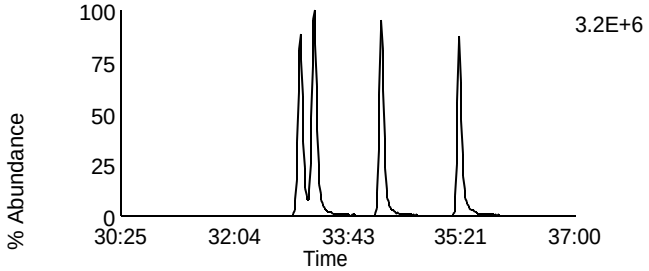
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G3 C6 - 385.861
SAMP 10265141012-MSD2 - SMT WI



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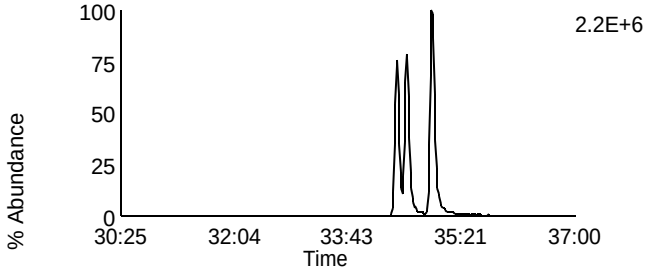
SAMP 10265141012-MSD2 - SMT WI



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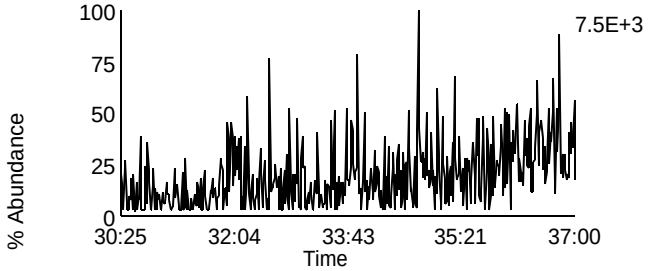
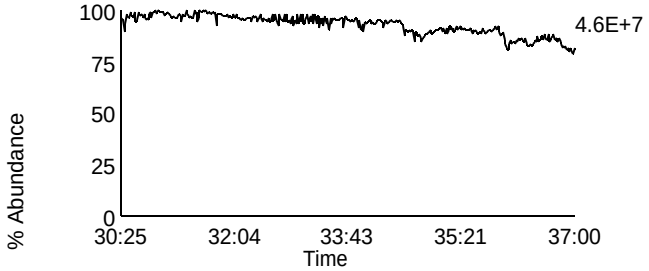
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G3 C3 - 380.976
SAMP 10265141012-MSD2 - SMT WI

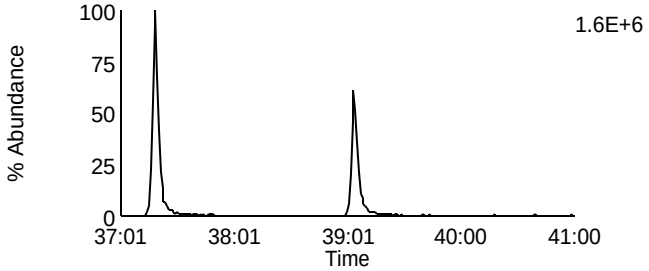


Homologue Group: Heptas

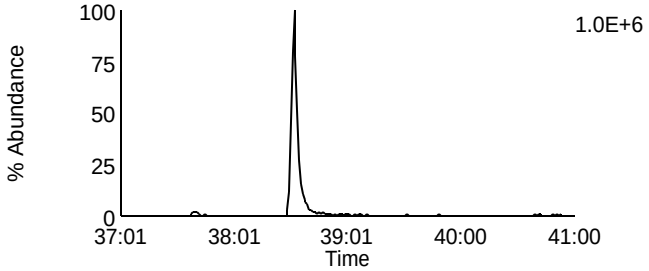
Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

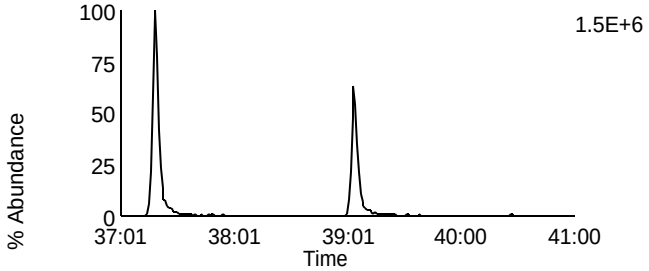
Data File: F140512A_05 G4 C3 - 407.7818
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C8 - 423.7767
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C4 - 409.7788
SAMP 10265141012-MSD2 - SMT WI



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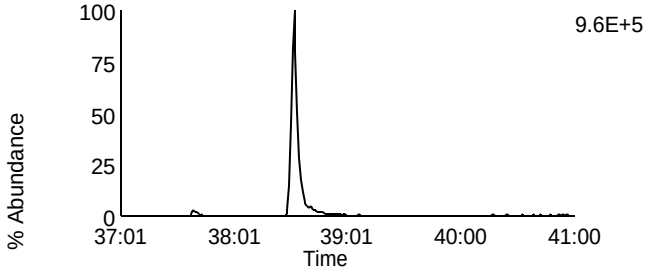
SAMP 10265141012-MSD2 - SMT WI



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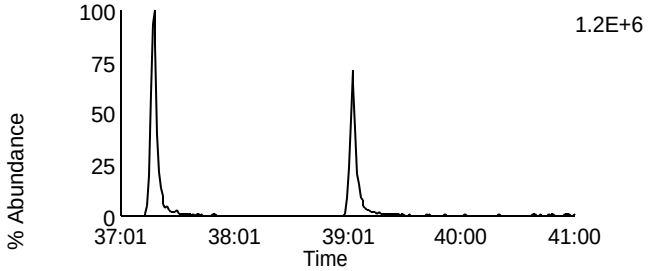
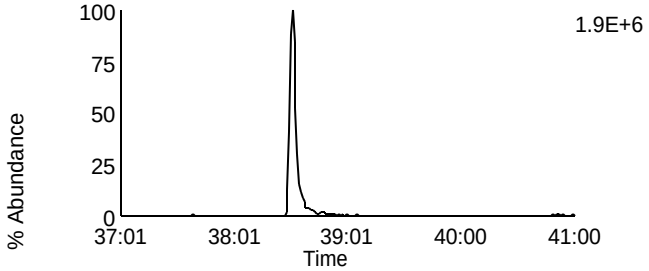
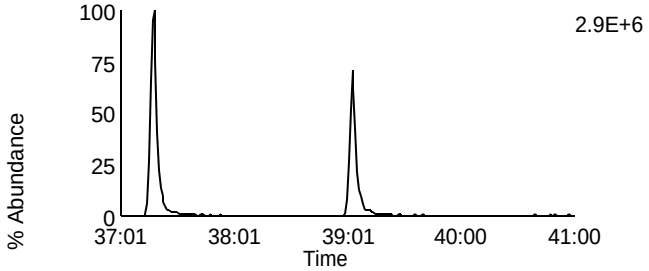
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C11 - 435.8169
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C7 - 419.822
SAMP 10265141012-MSD2 - SMT WI



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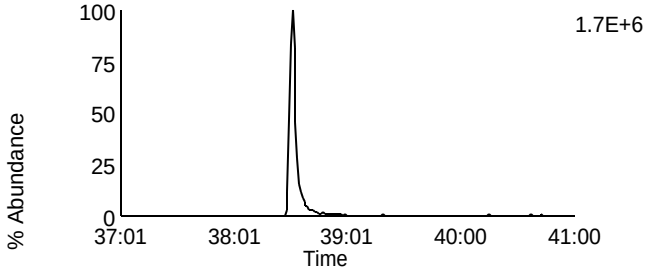
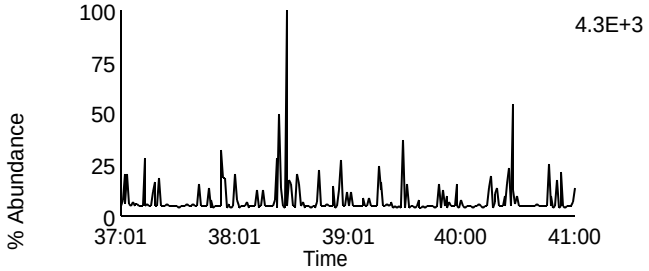
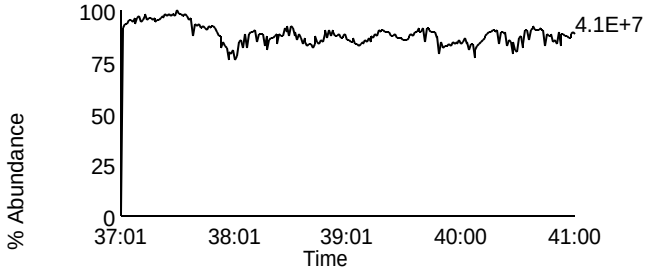
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C13 - 479.7165
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G4 C1 - 380.976
SAMP 10265141012-MSD2 - SMT WI

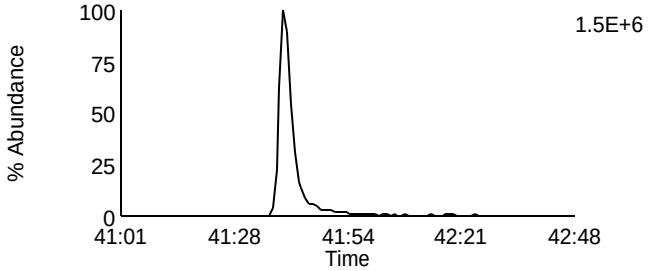


Homologue Group: Octas

Data File Name: F140512A_05
Date Acquired: 5/12/2014
Sample Description: SAMP 10265141012-MSD2 - SMT WI

Lab Sample ID: 10265141012-MSD2
Client Sample ID: MAK120O-MSD
Instrument: 10MSHR05 (F)

Data File: F140512A_05 G5 C4 - 441.7428
SAMP 10265141012-MSD2 - SMT WI



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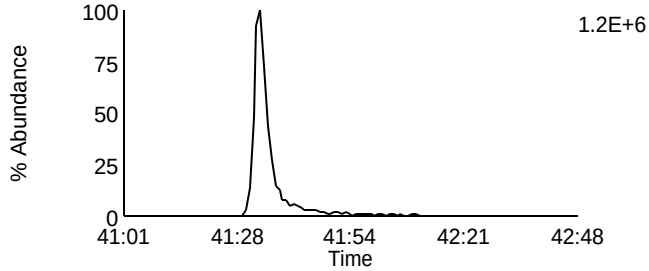
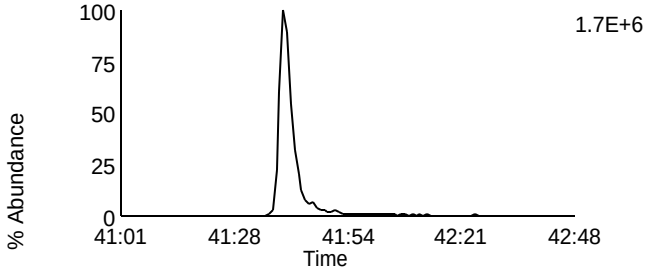
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G5 C5 - 443.7398
SAMP 10265141012-MSD2 - SMT WI



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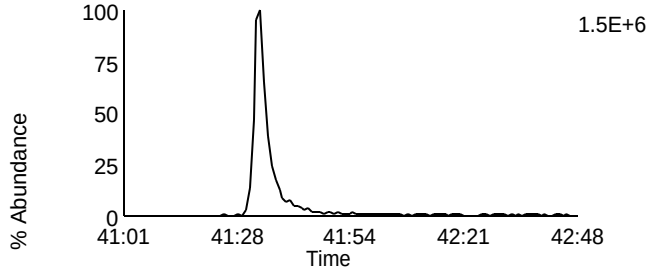
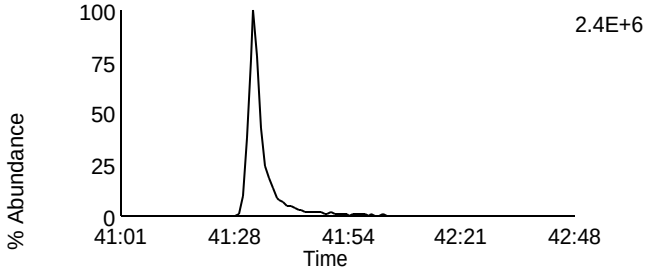
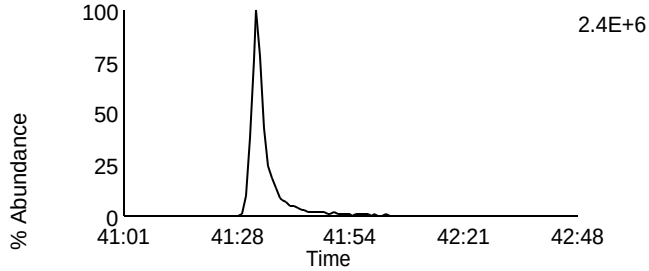
SAMP 10265141012-MSD2 - SMT WI



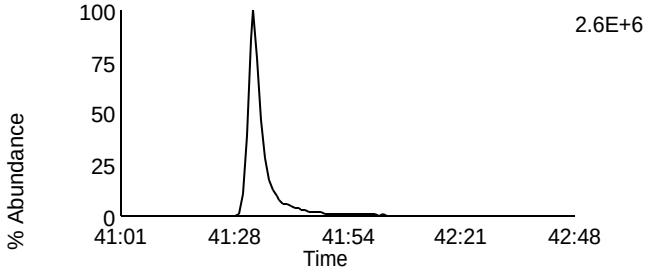
Data File: F140512A_05 G5 C11 - 469.7779
SAMP 10265141012-MSD2 - SMT WI



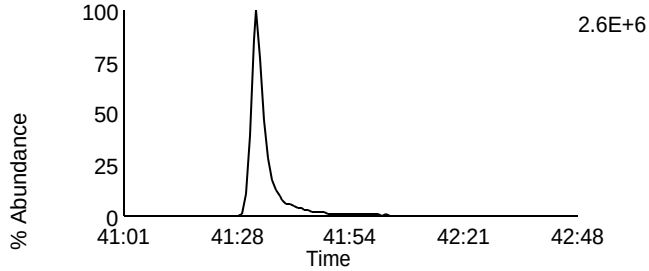
Data File: F140512A_05 G5 C11 - 469.7779
SAMP 10265141012-MSD2 - SMT WI



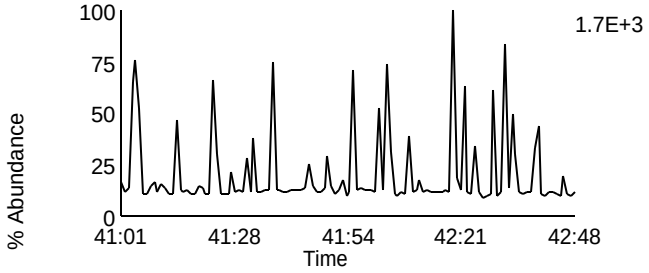
Data File: F140512A_05 G5 C12 - 471.7749
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G5 C12 - 471.7749
SAMP 10265141012-MSD2 - SMT WI



Data File: F140512A_05 G5 C13 - 513.6775
SAMP 10265141012-MSD2 - SMT WI



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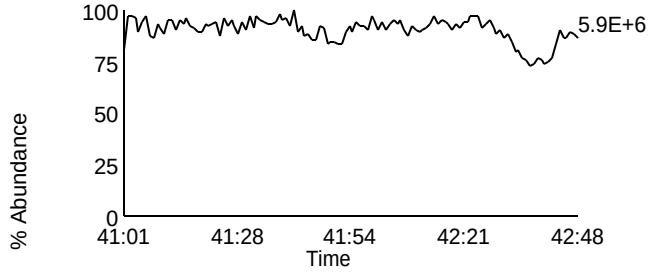

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	BLANK-40418	Instrument ID	10MSHR06 (U)
Filename	U140512A_06	GC Column ID	USD397111H
Analyzed	05/12/2014 14:55	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:41	7.01e7	8.79e7	1.04e7	1.33e7	2.578e4	7.141e3	0.80	
2,3,7,8-TCDF		21:41	8.53e4	6.69e4	1.90e4	1.70e4	2.337e3	2.961e3	1.28	I
Other TCDF	1	20:16	3.83e4	5.68e4					0.67	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:55	6.38e7	8.34e7	9.84e6	1.28e7	1.146e4	2.775e3	0.77	
2,3,7,8-TCDD-13C		22:52	5.07e7	6.50e7	7.03e6	9.49e6	7.197e3	1.077e4	0.78	
2,3,7,8-TCDD-37Cl4		22:54	1.46e7		2.18e6		4.529e3	-----		
2,3,7,8-TCDD		22:55	ND	ND	ND	ND	2.158e3	3.379e3		
Other TCDD	1	19:01	3.81e4	5.01e4					0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:40	7.33e7	4.66e7	1.34e7	8.90e6	4.333e3	1.084e4	1.57	
2,3,4,7,8-PeCDF-13C	31:01	6.99e7	4.51e7	1.53e7	9.90e6	3.330e4	3.275e3	1.55	
1,2,3,7,8-PeCDF	29:42	ND	ND	ND	ND	1.036e3	1.674e3		
2,3,4,7,8-PeCDF	31:02	ND	ND	ND	ND	1.101e3	1.735e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	5.46e7	3.50e7	1.31e7	8.79e6	3.654e3	1.762e3	1.56	
1,2,3,7,8-PeCDD	31:26	ND	ND	ND	ND	1.565e3	1.858e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	2.91e7	5.64e7	9.99e6	1.97e7	1.358e3	2.298e2	0.52	
1,2,3,6,7,8-HxCDF-13C	34:18	3.61e7	7.00e7	1.19e7	2.29e7	1.387e3	1.092e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:50	3.12e7	6.18e7	1.07e7	1.99e7	2.821e3	2.200e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:33	2.76e7	5.19e7	9.75e6	1.79e7	1.935e4	8.148e3	0.53	
1,2,3,4,7,8-HxCDF	34:12	ND	ND	ND	ND	1.394e3	1.190e3		
1,2,3,6,7,8-HxCDF	34:18	8.94e3	1.36e4	2.86e3	4.96e3	1.485e3	1.505e3	0.66	I
2,3,4,6,7,8-HxCDF	34:51	ND	ND	ND	ND	1.423e3	9.544e2		

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Client ID		Injected By	SMT
Lab ID	BLANK-40418	Instrument ID	10MSHR06 (U)
Filename	U140512A_06	GC Column ID	USD397111H
Analyzed	05/12/2014 14:55	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:33	1.07e4	7.18e3	3.43e3	4.16e3	1.454e3	8.899e2	1.48	I

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	4.07e7	3.22e7	1.52e7	1.18e7	1.410e4	5.818e2	1.27	
1,2,3,6,7,8-HxCDD-13C	35:03	4.24e7	3.43e7	1.45e7	1.16e7	1.410e4	1.789e3	1.24	
1,2,3,7,8,9-HxCDD-13C	35:17	6.03e7	4.89e7	2.08e7	1.68e7	4.501e3	2.004e2	1.23	
1,2,3,4,7,8-HxCDD	34:59	ND	ND	ND	ND	1.892e3	2.738e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	1.777e3	2.133e3		
1,2,3,7,8,9-HxCDD	35:18	ND	ND	ND	ND	1.536e3	2.215e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	2.41e7	5.14e7	9.32e6	1.87e7	1.083e4	6.068e3	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:03	1.67e7	3.68e7	5.19e6	1.13e7	1.151e4	1.342e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:48	1.59e4	2.55e4	5.35e3	9.74e3	2.824e3	3.485e3	0.62	I
1,2,3,4,7,8,9-HpCDF	38:04	1.99e4	1.12e4	8.76e3	6.11e3	2.962e3	3.307e3	1.78	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	3.28e7	3.09e7	1.20e7	1.09e7	1.377e4	7.162e3	1.06	
1,2,3,4,6,7,8-HpCDD	37:40	1.71e4	2.24e4	4.86e3	6.68e3	3.657e3	1.271e3	0.76	I
Other HpCDD 1	37:01	3.26e4	3.13e4					1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:23	1.99e4	2.21e4	4.53e3	5.82e3	1.558e3	3.822e3	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:13	3.64e7	4.00e7	1.00e7	1.12e7	1.017e4	2.642e3	0.91	
OCDD	40:13	5.83e4	3.51e4	2.32e4	1.39e4	2.811e3	4.587e3	1.66	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	CVS
Lab ID	BLANK-40456	Instrument ID	10MSHR06 (U)
Filename	U140513A_05	GC Column ID	USD397111H
Analyzed	05/13/2014 11:51	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:37	6.41e7	8.13e7	9.69e6	1.25e7	1.704e4	1.265e4	0.79	
2,3,7,8-TCDF		21:40	1.09e5	1.01e5	2.26e4	1.72e4	1.605e3	2.138e3	1.08	I
Other TCDF	1	20:34	8.11e4	1.15e5					0.71	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:51	5.38e7	6.93e7	8.58e6	1.10e7	1.103e4	6.890e3	0.78	
2,3,7,8-TCDD-13C		22:47	4.77e7	5.83e7	6.64e6	8.45e6	1.813e4	8.603e3	0.82	
2,3,7,8-TCDD-37Cl4		22:49	1.19e7		1.70e6		1.038e3	-----		
2,3,7,8-TCDD		22:48	ND	ND	ND	ND	1.731e3	1.583e3		
Other TCDD	1	18:32	6.85e4	1.02e5					0.67	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:37	6.38e7	4.18e7	1.17e7	7.69e6	2.587e4	1.417e4	1.53	
2,3,4,7,8-PeCDF-13C	30:58	6.16e7	3.95e7	1.42e7	9.05e6	1.890e4	8.711e3	1.56	
1,2,3,7,8-PeCDF	29:37	ND	ND	ND	ND	1.149e3	1.071e3		
2,3,4,7,8-PeCDF	30:58	ND	ND	ND	ND	1.185e3	1.463e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:21	4.73e7	2.94e7	1.15e7	7.19e6	1.145e4	6.933e3	1.61	
1,2,3,7,8-PeCDD	31:22	ND	ND	ND	ND	1.570e3	1.657e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	2.57e7	4.88e7	8.53e6	1.55e7	2.772e3	8.904e2	0.53	
1,2,3,6,7,8-HxCDF-13C	34:17	3.10e7	5.77e7	9.87e6	1.81e7	2.651e3	1.162e3	0.54	
2,3,4,6,7,8-HxCDF-13C	34:49	2.77e7	5.36e7	9.11e6	1.74e7	2.772e3	9.784e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:31	2.37e7	4.48e7	7.90e6	1.53e7	7.209e3	1.028e4	0.53	
1,2,3,4,7,8-HxCDF	34:11	7.85e3	9.04e3	4.13e3	4.18e3	1.370e3	1.255e3	0.87	I
1,2,3,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.370e3	1.228e3		
2,3,4,6,7,8-HxCDF	34:50	ND	ND	ND	ND	1.244e3	1.358e3		

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Client ID		Injected By	CVS
Lab ID	BLANK-40456	Instrument ID	10MSHR06 (U)
Filename	U140513A_05	GC Column ID	USD397111H
Analyzed	05/13/2014 11:51	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:32	ND	ND	ND	ND	1.227e3	1.189e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:57	3.36e7	2.69e7	1.20e7	9.84e6	4.073e3	7.809e3	1.25	
1,2,3,6,7,8-HxCDD-13C	35:02	3.64e7	2.90e7	1.23e7	9.84e6	1.042e4	7.809e3	1.25	
1,2,3,7,8,9-HxCDD-13C	35:16	4.71e7	3.84e7	1.71e7	1.38e7	4.073e3	1.306e3	1.23	
1,2,3,4,7,8-HxCDD	34:57	ND	ND	ND	ND	2.345e3	1.500e3		
1,2,3,6,7,8-HxCDD	35:03	ND	ND	ND	ND	2.350e3	1.452e3		
1,2,3,7,8,9-HxCDD	35:16	ND	ND	ND	ND	2.766e3	1.251e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.05e7	4.59e7	7.99e6	1.72e7	7.194e3	1.734e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:01	1.39e7	3.18e7	4.79e6	1.07e7	7.194e3	8.942e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:46	1.39e4	1.90e4	7.31e3	1.13e4	2.745e3	1.641e3	0.73	I
1,2,3,4,7,8,9-HpCDF	38:01	ND	ND	ND	ND	2.339e3	1.641e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:37	2.87e7	2.67e7	1.01e7	9.00e6	4.243e4	3.446e3	1.07	
1,2,3,4,6,7,8-HpCDD	37:39	1.13e4	9.43e3	8.17e3	6.94e3	1.731e3	1.049e3	1.19	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:20	ND	ND	ND	ND	1.171e3	1.349e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	3.25e7	3.59e7	9.91e6	1.08e7	1.401e4	9.798e3	0.91	
OCDD	40:12	2.02e4	5.61e4	9.04e3	2.71e4	1.606e3	3.432e3	0.36	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSID	Injected By	SMT
Lab ID	LCS-40419	Instrument ID	10MSHR06 (U)
Filename	U140512A_02	GC Column ID	USD397111H
Analyzed	05/12/2014 11:57	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	6.58e7	8.18e7	9.63e6	1.21e7	-----	-----	0.80	
2,3,7,8-TCDF	21:44	5.55e6	7.39e6	8.52e5	1.11e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:57	6.08e7	7.83e7	8.98e6	1.18e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	22:53	4.93e7	6.37e7	7.00e6	8.68e6	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	22:55	1.21e7		1.72e6		-----	-----		
2,3,7,8-TCDD	22:56	4.64e6	6.12e6	6.55e5	8.54e5	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	7.17e7	4.69e7	1.35e7	8.62e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	31:01	6.81e7	4.44e7	1.60e7	1.02e7	-----	-----	1.53	
1,2,3,7,8-PeCDF	29:42	3.31e7	2.21e7	5.90e6	3.99e6	-----	-----	1.50	
2,3,4,7,8-PeCDF	31:03	3.08e7	2.07e7	7.54e6	4.75e6	-----	-----	1.49	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	5.51e7	3.50e7	1.32e7	8.24e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:26	1.47e7	2.36e7	3.56e6	5.62e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	2.98e7	5.63e7	9.78e6	1.84e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	3.70e7	7.16e7	1.14e7	2.27e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:50	3.23e7	6.22e7	1.08e7	2.13e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:33	2.79e7	5.48e7	9.16e6	1.86e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:13	2.58e7	2.10e7	8.70e6	7.01e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:19	2.98e7	2.47e7	9.11e6	7.70e6	-----	-----	1.20	
2,3,4,6,7,8-HxCDF	34:51	2.70e7	2.21e7	9.21e6	7.66e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	35:34	2.30e7	1.84e7	7.13e6	5.85e6	-----	-----	1.25	

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Client ID	DLCSID	Injected By	SMT
Lab ID	LCS-40419	Instrument ID	10MSHR06 (U)
Filename	U140512A_02	GC Column ID	USD397111H
Analyzed	05/12/2014 11:57	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	4.28e7	3.40e7	1.65e7	1.30e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	35:03	4.48e7	3.62e7	1.53e7	1.22e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	35:17	6.65e7	5.32e7	2.30e7	1.85e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:59	2.23e7	1.84e7	8.78e6	7.19e6	-----	-----	1.21	
1,2,3,6,7,8-HxCDD	35:04	2.31e7	1.86e7	8.02e6	6.30e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:18	2.30e7	1.96e7	8.10e6	7.02e6	-----	-----	1.17	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	2.77e7	6.00e7	1.11e7	2.27e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:03	2.09e7	4.55e7	7.06e6	1.57e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:48	3.20e7	3.00e7	1.17e7	1.11e7	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	38:04	2.17e7	2.18e7	7.13e6	7.07e6	-----	-----	0.99	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	4.14e7	3.90e7	1.43e7	1.36e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:39	2.07e7	1.98e7	6.92e6	6.79e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:22	2.48e7	2.79e7	7.84e6	8.61e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	4.61e7	5.11e7	1.33e7	1.47e7	-----	-----	0.90	
OCDD	40:13	2.62e7	2.88e7	7.82e6	8.70e6	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	LCSJB	Injected By	CVS
Lab ID	LCS-40457	Instrument ID	10MSHR06 (U)
Filename	U140513A_15	GC Column ID	USD397111H
Analyzed	05/13/2014 19:18	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:36	7.52e7	9.55e7	1.11e7	1.42e7	-----	-----	0.79	
2,3,7,8-TCDF	21:37	7.01e6	9.56e6	1.07e6	1.44e6	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:51	6.66e7	8.19e7	1.02e7	1.23e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	22:47	5.56e7	6.85e7	7.83e6	1.02e7	-----	-----	0.81	
2,3,7,8-TCDD-37Cl4	22:49	1.42e7		1.99e6		-----	-----		
2,3,7,8-TCDD	22:48	5.62e6	7.04e6	8.08e5	9.91e5	-----	-----	0.80	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:37	8.23e7	5.32e7	1.52e7	9.82e6	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	30:58	8.09e7	5.10e7	1.86e7	1.20e7	-----	-----	1.58	
1,2,3,7,8-PeCDF	29:37	3.77e7	2.47e7	6.87e6	4.51e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	30:59	3.59e7	2.39e7	8.09e6	5.27e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:22	5.87e7	3.79e7	1.43e7	8.84e6	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:22	1.64e7	2.67e7	4.18e6	6.38e6	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:10	2.89e7	5.39e7	9.75e6	1.80e7	-----	-----	0.54	
1,2,3,6,7,8-HxCDF-13C	34:17	3.34e7	6.35e7	1.06e7	1.92e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:48	3.11e7	5.84e7	1.00e7	2.00e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:31	2.65e7	4.97e7	9.05e6	1.74e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	34:11	2.49e7	2.04e7	8.69e6	7.10e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	34:18	2.77e7	2.22e7	8.89e6	6.69e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:50	2.64e7	2.14e7	8.45e6	7.07e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:32	2.06e7	1.70e7	6.83e6	5.89e6	-----	-----	1.21	

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Client ID	LCSJB	Injected By	CVS
Lab ID	LCS-40457	Instrument ID	10MSHR06 (U)
Filename	U140513A_15	GC Column ID	USD397111H
Analyzed	05/13/2014 19:18	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	3.78e7	3.00e7	1.36e7	1.11e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	35:01	4.29e7	3.35e7	1.44e7	1.15e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	35:16	5.04e7	4.04e7	1.81e7	1.44e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:57	1.98e7	1.64e7	7.24e6	5.80e6	-----	-----	1.21	
1,2,3,6,7,8-HxCDD	35:02	2.10e7	1.76e7	7.30e6	6.10e6	-----	-----	1.19	
1,2,3,7,8,9-HxCDD	35:16	2.08e7	1.69e7	7.00e6	5.77e6	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:46	2.16e7	4.97e7	7.92e6	1.80e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:01	1.75e7	3.75e7	5.75e6	1.20e7	-----	-----	0.47	
1,2,3,4,6,7,8-HpCDF	36:46	2.67e7	2.41e7	9.93e6	8.87e6	-----	-----	1.11	
1,2,3,4,7,8,9-HpCDF	38:01	1.84e7	1.83e7	6.22e6	5.98e6	-----	-----	1.00	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	3.19e7	2.98e7	1.16e7	1.15e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:37	1.74e7	1.58e7	6.46e6	5.28e6	-----	-----	1.10	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	2.24e7	2.53e7	6.76e6	7.49e6	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:11	3.86e7	4.29e7	1.10e7	1.27e7	-----	-----	0.90	
OCDD	40:11	2.15e7	2.45e7	6.40e6	7.49e6	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	LCSJC	Injected By	CVS
Lab ID	LCSD-40458	Instrument ID	10MSHR06 (U)
Filename	U140513A_16	GC Column ID	USD397111H
Analyzed	05/13/2014 20:03	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:35	6.18e7	7.73e7	9.16e6	1.14e7	-----	-----	0.80	
2,3,7,8-TCDF	21:37	5.66e6	7.60e6	8.31e5	1.13e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:50	5.08e7	6.44e7	7.60e6	9.77e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:46	4.54e7	5.58e7	6.56e6	7.87e6	-----	-----	0.81	
2,3,7,8-TCDD-37Cl4	22:48	1.20e7		1.75e6		-----	-----		
2,3,7,8-TCDD	22:48	4.41e6	5.83e6	6.44e5	8.17e5	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:35	6.43e7	4.23e7	1.20e7	8.25e6	-----	-----	1.52	
2,3,4,7,8-PeCDF-13C	30:57	6.38e7	4.11e7	1.47e7	9.70e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:37	3.00e7	1.96e7	5.32e6	3.55e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	30:58	2.92e7	1.90e7	6.40e6	4.43e6	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:20	4.75e7	3.09e7	1.20e7	7.70e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	31:22	1.33e7	2.16e7	3.23e6	5.08e6	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:09	2.67e7	5.12e7	8.95e6	1.76e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:16	3.16e7	6.17e7	9.84e6	1.89e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:48	2.85e7	5.35e7	9.97e6	1.79e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:30	2.50e7	4.83e7	8.95e6	1.74e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:10	2.34e7	1.95e7	7.77e6	6.60e6	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:17	2.67e7	2.14e7	8.42e6	6.94e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:49	2.40e7	1.92e7	8.22e6	6.63e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	35:31	1.93e7	1.60e7	6.48e6	5.36e6	-----	-----	1.21	

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Client ID	LCSJC	Injected By	CVS
Lab ID	LCSD-40458	Instrument ID	10MSHR06 (U)
Filename	U140513A_16	GC Column ID	USD397111H
Analyzed	05/13/2014 20:03	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:56	3.46e7	2.77e7	1.27e7	1.01e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	35:01	3.67e7	2.78e7	1.32e7	9.85e6	-----	-----	1.32	
1,2,3,7,8,9-HxCDD-13C	35:15	4.78e7	3.92e7	1.70e7	1.41e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	34:57	1.87e7	1.50e7	7.00e6	5.63e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	35:02	1.91e7	1.50e7	6.60e6	5.24e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD	35:16	1.82e7	1.58e7	6.25e6	5.19e6	-----	-----	1.15	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:45	2.11e7	4.64e7	7.82e6	1.80e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:00	1.59e7	3.47e7	5.39e6	1.25e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:46	2.39e7	2.29e7	9.55e6	8.27e6	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:01	1.67e7	1.65e7	5.86e6	5.79e6	-----	-----	1.01	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:36	2.78e7	2.70e7	9.48e6	9.51e6	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	37:36	1.45e7	1.43e7	5.35e6	5.05e6	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:19	2.00e7	2.18e7	5.94e6	6.21e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:10	3.52e7	3.86e7	1.09e7	1.21e7	-----	-----	0.91	
OCDD	40:11	1.95e7	2.12e7	5.60e6	6.16e6	-----	-----	0.92	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK109O-MS	Injected By	SMT
Lab ID	10265141001-MS2	Instrument ID	10MSHR06 (U)
Filename	U140512A_03	GC Column ID	USD397111H
Analyzed	05/12/2014 12:41	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	6.86e7	8.75e7	1.03e7	1.30e7	-----	-----	0.78	
2,3,7,8-TCDF	21:41	6.92e6	8.69e6	9.62e5	1.31e6	-----	-----	0.80	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:56	6.11e7	7.82e7	9.46e6	1.24e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	22:52	5.42e7	6.81e7	7.42e6	9.41e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	22:54	1.38e7		1.88e6		-----	-----		
2,3,7,8-TCDD	22:54	5.70e6	6.95e6	8.37e5	1.00e6	-----	-----	0.82	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:41	7.91e7	5.06e7	1.42e7	8.66e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:01	7.99e7	4.98e7	1.73e7	1.05e7	-----	-----	1.61	
1,2,3,7,8-PeCDF	29:42	3.83e7	2.52e7	6.70e6	4.53e6	-----	-----	1.52	
2,3,4,7,8-PeCDF	31:03	3.70e7	2.53e7	7.81e6	5.28e6	-----	-----	1.47	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	6.08e7	3.95e7	1.36e7	8.83e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	31:26	1.81e7	2.88e7	4.08e6	6.26e6	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	2.75e7	5.44e7	9.41e6	1.88e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:19	3.26e7	6.41e7	1.02e7	1.95e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:51	3.00e7	5.59e7	1.02e7	1.80e7	-----	-----	0.54	
1,2,3,7,8,9-HxCDF-13C	35:34	2.55e7	4.97e7	8.47e6	1.68e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:13	2.66e7	2.21e7	8.83e6	7.43e6	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:20	2.92e7	2.35e7	9.40e6	7.57e6	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	34:52	2.67e7	2.23e7	8.48e6	7.09e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	35:35	2.17e7	1.72e7	7.21e6	5.59e6	-----	-----	1.27	

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Client Name	PASI Wisconsin		
Client ID	MAK109O-MS	Injected By	SMT
Lab ID	10265141001-MS2	Instrument ID	10MSHR06 (U)
Filename	U140512A_03	GC Column ID	USD397111H
Analyzed	05/12/2014 12:41	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	3.67e7	2.96e7	1.39e7	1.10e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:03	4.17e7	3.25e7	1.44e7	1.12e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	35:18	5.47e7	4.50e7	1.98e7	1.61e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	34:59	2.08e7	1.70e7	8.09e6	6.62e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	35:04	2.26e7	1.81e7	7.54e6	5.86e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:19	2.23e7	1.81e7	7.47e6	5.98e6	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	2.37e7	5.24e7	9.27e6	1.95e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:03	1.68e7	3.66e7	5.68e6	1.26e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:48	2.92e7	2.84e7	1.15e7	1.05e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:04	1.85e7	1.78e7	5.86e6	5.50e6	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:39	3.69e7	3.43e7	1.25e7	1.16e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:39	1.98e7	1.89e7	6.44e6	6.25e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:23	2.27e7	2.48e7	6.09e6	6.82e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:13	3.90e7	4.41e7	1.09e7	1.25e7	-----	-----	0.89	
OCDD	40:14	2.29e7	2.56e7	6.31e6	6.85e6	-----	-----	0.90	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK109O-MSD	Injected By	SMT
Lab ID	10265141001-MSD2	Instrument ID	10MSHR06 (U)
Filename	U140512A_04	GC Column ID	USD397111H
Analyzed	05/12/2014 13:26	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:41	6.80e7	8.56e7	1.02e7	1.33e7	-----	-----	0.79	
2,3,7,8-TCDF	21:42	6.43e6	8.23e6	9.46e5	1.24e6	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:57	6.25e7	7.83e7	9.50e6	1.21e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	22:52	5.11e7	6.41e7	7.39e6	9.21e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	22:55	1.27e7		1.89e6		-----	-----		
2,3,7,8-TCDD	22:55	5.07e6	6.86e6	7.05e5	9.84e5	-----	-----	0.74	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:40	7.51e7	4.91e7	1.38e7	9.21e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	31:01	7.01e7	4.63e7	1.66e7	1.07e7	-----	-----	1.51	
1,2,3,7,8-PeCDF	29:42	3.51e7	2.34e7	6.39e6	4.14e6	-----	-----	1.50	
2,3,4,7,8-PeCDF	31:02	3.33e7	2.30e7	7.50e6	5.36e6	-----	-----	1.45	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:24	5.44e7	3.52e7	1.35e7	8.92e6	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:26	1.55e7	2.48e7	3.58e6	5.81e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:12	2.46e7	4.67e7	8.28e6	1.57e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	34:18	2.56e7	4.95e7	8.44e6	1.58e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:50	2.48e7	4.82e7	9.66e6	1.84e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:33	2.05e7	3.82e7	7.14e6	1.40e7	-----	-----	0.54	
1,2,3,4,7,8-HxCDF	34:13	2.17e7	1.77e7	7.16e6	5.81e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	34:19	2.13e7	1.77e7	6.53e6	5.58e6	-----	-----	1.20	
2,3,4,6,7,8-HxCDF	34:51	2.20e7	1.78e7	7.73e6	6.22e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:34	1.63e7	1.36e7	5.65e6	5.00e6	-----	-----	1.20	

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK109O-MSD	Injected By	SMT
Lab ID	10265141001-MSD2	Instrument ID	10MSHR06 (U)
Filename	U140512A_04	GC Column ID	USD397111H
Analyzed	05/12/2014 13:26	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:58	3.25e7	2.62e7	1.28e7	9.90e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:03	3.37e7	2.71e7	1.28e7	9.47e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:17	4.34e7	3.54e7	1.57e7	1.28e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:59	1.70e7	1.43e7	6.72e6	5.15e6	-----	-----	1.19	
1,2,3,6,7,8-HxCDD	35:04	1.83e7	1.52e7	6.45e6	5.31e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDD	35:18	1.69e7	1.35e7	5.92e6	4.99e6	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:47	1.99e7	4.37e7	7.15e6	1.64e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:03	1.57e7	3.43e7	5.24e6	1.13e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:47	2.40e7	2.31e7	8.48e6	8.30e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:04	1.78e7	1.65e7	5.71e6	5.34e6	-----	-----	1.08	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:38	3.08e7	2.83e7	1.10e7	1.03e7	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	37:39	1.63e7	1.57e7	5.89e6	5.62e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:22	2.12e7	2.32e7	6.30e6	6.83e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:12	3.91e7	4.23e7	1.14e7	1.27e7	-----	-----	0.92	
OCDD	40:13	2.14e7	2.48e7	6.66e6	7.60e6	-----	-----	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120O-MS	Injected By	SMT
Lab ID	10265141012-MS2	Instrument ID	10MSHR05 (F)
Filename	F140512A_04	GC Column ID	USD331524H
Analyzed	05/12/2014 14:35	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:05	2.14e7	2.73e7	4.05e6	5.12e6	-----	-----	0.79	
2,3,7,8-TCDF	17:06	1.93e6	2.43e6	3.85e5	4.72e5	-----	-----	0.79	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:10	1.77e7	2.25e7	3.47e6	4.48e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	17:56	1.67e7	2.16e7	3.02e6	4.06e6	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	17:57	3.77e6		6.47e5		-----	-----		
2,3,7,8-TCDD	17:58	1.33e6	1.77e6	2.50e5	3.10e5	-----	-----	0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:45	2.52e7	1.55e7	3.18e6	1.94e6	-----	-----	1.63	
2,3,4,7,8-PeCDF-13C	26:09	2.34e7	1.46e7	2.64e6	1.65e6	-----	-----	1.60	
1,2,3,7,8-PeCDF	23:49	1.25e7	7.98e6	1.60e6	1.03e6	-----	-----	1.56	
2,3,4,7,8-PeCDF	26:11	1.20e7	7.39e6	1.37e6	8.85e5	-----	-----	1.62	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:57	1.72e7	1.12e7	1.85e6	1.28e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	27:00	4.41e6	7.40e6	4.86e5	8.64e5	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:02	9.58e6	1.87e7	1.95e6	3.73e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:14	1.23e7	2.39e7	2.05e6	4.13e6	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:12	1.12e7	2.16e7	2.26e6	4.31e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	9.94e6	1.93e7	1.99e6	3.82e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:04	9.58e6	7.78e6	1.80e6	1.50e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	33:15	1.14e7	8.77e6	1.99e6	1.49e6	-----	-----	1.30	
2,3,4,6,7,8-HxCDF	34:13	1.04e7	8.54e6	2.17e6	1.69e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	35:20	8.76e6	6.92e6	1.67e6	1.39e6	-----	-----	1.27	

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Client Name	PASI Wisconsin		
Client ID	MAK120O-MS	Injected By	SMT
Lab ID	10265141012-MS2	Instrument ID	10MSHR05 (F)
Filename	F140512A_04	GC Column ID	USD331524H
Analyzed	05/12/2014 14:35	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:26	1.24e7	1.04e7	2.93e6	2.29e6	-----	-----	1.19	
1,2,3,6,7,8-HxCDD-13C	34:35	1.55e7	1.19e7	2.97e6	2.32e6	-----	-----	1.30	
1,2,3,7,8,9-HxCDD-13C	34:57	1.67e7	1.35e7	3.22e6	2.62e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	34:27	6.65e6	5.37e6	1.54e6	1.24e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	34:35	7.87e6	6.33e6	1.50e6	1.27e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	34:58	7.50e6	6.07e6	1.50e6	1.17e6	-----	-----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:19	8.62e6	1.94e7	1.98e6	4.41e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	39:04	6.23e6	1.48e7	1.33e6	3.10e6	-----	-----	0.42	
1,2,3,4,6,7,8-HpCDF	37:20	9.42e6	9.23e6	2.30e6	2.21e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	39:04	6.71e6	6.31e6	1.47e6	1.42e6	-----	-----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	1.26e7	1.18e7	2.87e6	2.80e6	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	38:33	6.47e6	6.10e6	1.57e6	1.46e6	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	9.00e6	9.72e6	2.19e6	2.37e6	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	1.63e7	1.80e7	3.77e6	4.02e6	-----	-----	0.90	
OCDD	41:34	8.46e6	9.46e6	1.94e6	2.11e6	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120O-MSD	Injected By	SMT
Lab ID	10265141012-MSD2	Instrument ID	10MSHR05 (F)
Filename	F140512A_05	GC Column ID	USD331524H
Analyzed	05/12/2014 15:18	ICAL ID	F131125

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:04	1.57e7	1.99e7	2.94e6	3.72e6	-----	-----	0.79	
2,3,7,8-TCDF	17:06	1.48e6	2.00e6	2.73e5	3.87e5	-----	-----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:10	1.55e7	2.03e7	3.11e6	4.13e6	-----	-----	0.77	
2,3,7,8-TCDD-13C	17:56	1.25e7	1.58e7	2.24e6	2.82e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	17:57	3.01e6		5.89e5		-----	-----		
2,3,7,8-TCDD	17:57	1.01e6	1.41e6	1.94e5	2.68e5	-----	-----	0.71	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	23:46	1.86e7	1.14e7	2.40e6	1.45e6	-----	-----	1.64	
2,3,4,7,8-PeCDF-13C	26:09	1.74e7	1.10e7	1.98e6	1.24e6	-----	-----	1.59	
1,2,3,7,8-PeCDF	23:48	1.02e7	6.39e6	1.27e6	8.37e5	-----	-----	1.59	
2,3,4,7,8-PeCDF	26:10	9.99e6	5.87e6	1.15e6	7.12e5	-----	-----	1.70	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:57	1.32e7	8.22e6	1.40e6	9.16e5	-----	-----	1.60	
1,2,3,7,8-PeCDD	26:60	3.62e6	5.99e6	4.07e5	6.85e5	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:02	7.41e6	1.44e7	1.41e6	2.80e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:14	9.24e6	1.78e7	1.75e6	3.19e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:12	7.84e6	1.52e7	1.61e6	3.04e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:20	6.88e6	1.35e7	1.42e6	2.80e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:04	7.98e6	6.15e6	1.56e6	1.21e6	-----	-----	1.30	
1,2,3,6,7,8-HxCDF	33:15	9.42e6	7.17e6	1.67e6	1.31e6	-----	-----	1.31	
2,3,4,6,7,8-HxCDF	34:13	8.18e6	6.38e6	1.64e6	1.30e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDF	35:21	6.83e6	5.28e6	1.37e6	1.05e6	-----	-----	1.29	

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Client Name	PASI Wisconsin		
Client ID	MAK120O-MSD	Injected By	SMT
Lab ID	10265141012-MSD2	Instrument ID	10MSHR05 (F)
Filename	F140512A_05	GC Column ID	USD331524H
Analyzed	05/12/2014 15:18	ICAL ID	F131125

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:26	9.50e6	7.27e6	2.15e6	1.65e6	-----	-----	1.31	
1,2,3,6,7,8-HxCDD-13C	34:34	1.07e7	8.61e6	2.11e6	1.71e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	34:56	1.40e7	1.09e7	2.84e6	2.17e6	-----	-----	1.29	
1,2,3,4,7,8-HxCDD	34:27	5.39e6	4.27e6	1.22e6	9.57e5	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	34:35	6.04e6	4.84e6	1.24e6	1.03e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	34:58	5.57e6	4.60e6	1.22e6	9.35e5	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:19	4.91e6	1.21e7	1.23e6	2.88e6	-----	-----	0.40	
1,2,3,4,7,8,9-HpCDF-13C	39:03	3.54e6	8.62e6	8.62e5	2.02e6	-----	-----	0.41	
1,2,3,4,6,7,8-HpCDF	37:20	6.43e6	6.55e6	1.64e6	1.54e6	-----	-----	0.98	
1,2,3,4,7,8,9-HpCDF	39:04	4.24e6	3.97e6	1.00e6	9.63e5	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:32	7.66e6	7.09e6	1.87e6	1.74e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:33	3.98e6	3.96e6	9.98e5	9.58e5	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:40	5.75e6	6.36e6	1.49e6	1.67e6	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:33	9.57e6	1.10e7	2.38e6	2.62e6	-----	-----	0.87	
OCDD	41:34	5.14e6	6.04e6	1.24e6	1.50e6	-----	-----	0.85	

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