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 #: 10258392
Sample Receipt Date: 02/20/2014
Client Project #: 4091591
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:

March 07, 2014

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

Report Prepared Date:
March 7, 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-four 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 48-101%. 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 spike samples were also prepared using clean reference material that had been fortified with native standards. Recoveries of the native compounds ranged from 85-128% with relative percent differences of 0.0-11.0%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the sample batches and are scheduled to be included in subsequent batches of samples for this study.

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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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Minneapolis, MN 55414

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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
MAK101O	10258392001	02/20/2014	Octopus
MAK102O	10258392002	02/20/2014	Octopus
MAK103O	10258392003	02/20/2014	Octopus
MAK104O	10258392004	02/20/2014	Octopus
MAK105O	10258392005	02/20/2014	Octopus
MAK106O	10258392006	02/20/2014	Octopus
MAK107O	10258392007	02/20/2014	Octopus
MAK108O	10258392008	02/20/2014	Octopus
MAK102C	10258392009	02/20/2014	Sea Cucumb
MAK103C	10258392010	02/20/2014	Sea Cucumb
MAK104C	10258392011	02/20/2014	Sea Cucumb
MAK105C	10258392012	02/20/2014	Sea Cucumb
MAK106C	10258392013	02/20/2014	Sea Cucumb
MAK107C	10258392014	02/20/2014	Sea Cucumb
MAK108C	10258392015	02/20/2014	Sea Cucumb
MAK110C	10258392016	02/20/2014	Sea Cucumb
MAK101L	10258392017	02/20/2014	Limu
MAK102L	10258392018	02/20/2014	Limu
MAK105L	10258392019	02/20/2014	Limu
MAK106L	10258392020	02/20/2014	Limu
MAK108,109,110,113L	10258392021	02/20/2014	Limu
MAK111L	10258392022	02/20/2014	Limu
MAK112L	10258392023	02/20/2014	Limu
MAK115L	10258392024	02/20/2014	Limu

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10258392

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
MAK101O	1/13/2014	10:02		X	1	X	Octopus	x	001
MAK102O	1/13/2014	10:30		X	1	X	Octopus	x	002
MAK103O	1/13/2014	11:02		X	1	X	Octopus	x	003
MAK104O	1/13/2014	11:30		X	1	X	Octopus	x	004
MAK105O	1/13/2014	11:58		X	1	X	Octopus	x	005
MAK106O	1/13/2014	12:20		X	1	X	Octopus	x	006
MAK107O	1/13/2014	13:05		X	1	X	Octopus	x	007
MAK108O	1/13/2014	14:20		X	1	X	Octopus	x	008
MAK102C	1/13/2014	10:02		X	1	X	Sea Cucumber	x	009
MAK103C	1/13/2014	10:22		X	1	X	Sea Cucumber	x	010
MAK104C	1/13/2014	11:00		X	1	X	Sea Cucumber	x	011
MAK105C	1/13/2014	11:30		X	1	X	Sea Cucumber	x	012
MAK106C	1/13/2014	12:05		X	1	X	Sea Cucumber	x	013
MAK107C	1/13/2014	12:40		X	1	X	Sea Cucumber	x	014
MAK108C	1/13/2014	13:50		X	1	X	Sea Cucumber	x	015
MAK110C	1/14/2014	9:55		X	1	X	Sea Cucumber	x	016
MAK101L	1/13/2014	9:10		X	1	X	Limu (seaweed)	x	017
MAK102L	1/13/2014	10:02		X	1	X	Limu (seaweed)	x	018
MAK105L	1/13/2014	15:20		X	1	X	Limu (seaweed)	x	019
MAK106L	1/14/2014	8:45		X	1	X	Limu (seaweed)	x	020
MAK108,109,110,113L	1/14/2014		X		1	X	Limu (seaweed)	x	021
MAK111L	1/14/2014	12:05		X	1	X	Limu (seaweed)	x	022
MAK112L	1/14/2014	12:50		X	1	X	Limu (seaweed)	x	023
MAK115L	1/14/2014	14:00		X	1	X	Limu (seaweed)	x	024

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
C / PACE	2/19/14	1700	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature)	Date	Time	Shipping Ticket No.
[illegible] PACE	2/20/14	935	

REMARKS / SPECIAL INSTRUCTIONS:

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.

col / pace
2-20-14 9:35 T=-19.2C

T = -19.8

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
MAK101O	1/13/2014	10:02		X	1	X	Octopus	x	
MAK102O	1/13/2014	10:30		X	1	X	Octopus	x	
MAK103O	1/13/2014	11:02		X	1	X	Octopus	x	
MAK104O	1/13/2014	11:30		X	1	X	Octopus	x	
MAK105O	1/13/2014	11:58		X	1	X	Octopus	x	
MAK106O	1/13/2014	12:20		X	1	X	Octopus	x	
MAK107O	1/13/2014	13:05		X	1	X	Octopus	x	
MAK108O	1/13/2014	14:20		X	1	X	Octopus	x	
MAK102C	1/13/2014	10:02		X	1	X	Sea Cucumber	x	
MAK103C	1/13/2014	10:22		X	1	X	Sea Cucumber	x	
MAK104C	1/13/2014	11:00		X	1	X	Sea Cucumber	x	
MAK105C	1/13/2014	11:30		X	1	X	Sea Cucumber	x	
MAK106C	1/13/2014	12:05		X	1	X	Sea Cucumber	x	
MAK107C	1/13/2014	12:40		X	1	X	Sea Cucumber	x	
MAK108C	1/13/2014	13:50		X	1	X	Sea Cucumber	x	
MAK110C	1/14/2014	9:55		X	1	X	Sea Cucumber	x	
MAK101L	1/13/2014	9:10		X	1	X	Limu (seaweed)	x	
MAK102L	1/13/2014	10:02		X	1	X	Limu (seaweed)	x	
MAK105L	1/13/2014	15:20		X	1	X	Limu (seaweed)	x	
MAK106L	1/14/2014	8:45		X	1	X	Limu (seaweed)	x	
MAK108,109,110,113L	1/14/2014		X		1	X	Limu (seaweed)	x	
MAK111L	1/14/2014	12:05		X	1	X	Limu (seaweed)	x	
MAK112L	1/14/2014	12:50		X	1	X	Limu (seaweed)	x	
MAK115L	1/14/2014	14:00		X	1	X	Limu (seaweed)	x	

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
[signature] PACE	2/19/14	1700	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature) [signature] PACE	Date 2/20/14	Time 935	Shipping Ticket No.

REMARKS / SPECIAL INSTRUCTIONS:

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.

CSI / PACE
2-20-14 9:35 T=-19.2°C

T= -19.8

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.08**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace GB

Project #: WO#: 10258392

10258392

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

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: _____ **Temp Blank?** ☐ Yes ☐ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B88A912167504 ☑ B88A9132521491 **Type of Ice:** ☐ Wet ☑ Blue (dry ice) ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): -19.2 **Cooler Temp Corrected (°C):** -19.2 **Biological Tissue Frozen?** ☑ Yes ☐ No ☐ N/A

Temp should be above freezing to 6°C **Correction Factor:** +1+C **Date and Initials of Person Examining Contents:** _____

				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: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (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: _____ **Date:** 02/21/14

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 EXTRACTION WORKSHEET

Non Aqueous

Extraction Batch : EB-14468

Pace Analytical Services, Inc.

EB-14468

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Client(s):

Extraction On (Date/Time): 2/25/2014 9:00:00 PM

Extraction Off (Date/Time): 2/26/2014 1:00:00 PM

Standards:

Internal Std FS-I-9966-087

Native FS-N-9966-024

Cl-37 Std dwcl4-9966-085

Recovery Std FS-R-9966-088

Tridecane 10ul

Mineral Oil

Others

☐ **Silica:**

Date 2/26/2014

Initials ped/kh

Hexane Lot # 136252

Dispenser ID

Neutral Batch # 246

Basic Batch # 328

Acid Batch # 494

☐ **Alumina:**

Date 2/27/2014

Initials MF

Hexane Lot # 136252

Dispenser ID

60% Batch # 1567

Dispenser ID

Alumina Lot

☐ **Carbon:**

Date 2/27/2014

Initials TDP/PED

Toluene Lot # 131926

Dispenser ID

75% Batch # 324

Dispenser ID

50% Batch # 434

Dispenser ID

Hexane Lot # 136252

Dispenser ID

Extract Solvents:

Toluene Lot #

Hexane Lot #

MeCl Lot #

☐ **Acid Base:**

H2SO4 Lot #

Buffer Soln #

QC Matrix Lot/Batch# _____

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-39430			20.30					
2	LCS-39431			20.30					
3	LCSD-39432			20.20					
4	4091551001			20.70				Rcving	1613,T-O
5	4091551002			20.10				Rcving	1613,T-O
6	4091551003			21.10				Rcving	1613,T-O
7	4091551004			20.20				Rcving	1613,T-O
8	4091551005			20.30				Rcving	1613,T-O
9	4091551006			20.40				Rcving	1613,T-O
10	4091551007			20.10				Rcving	1613,T-O
11	4091551008			20.20				Rcving	1613,T-O
12	4091551009			20.20				Rcving	1613,T-O
13	4091551010			20.70				Rcving	1613,T-O
14	4091551011			17.40				Rcving	1613,T-O
15	4091551012			20.20				Rcving	1613,T-O
16	10258392001			20.10				DP2	1613,T-O
17	10258392002			20.30				DP2	1613,T-O
18	10258392003			20.00				DP2	1613,T-O
19	10258392004			20.60				DP2	1613,T-O
20	10258392005			20.20				DP2	1613,T-O
21	10258392006			20.20				DP2	1613,T-O
22	10258392007			20.20				DP2	1613,T-O
23	10258392008			20.50				DP2	1613,T-O

Extracts Relinquished By: _____ **Received By:** _____ **Date:** _____

Extraction Notes

DIOXIN EXTRACTION WORKSHEET

Non Aqueous

Extraction Batch : EB-14495

Pace Analytical Services, Inc.

EB-14495

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Client(s):

Extraction On (Date/Time): 3/4/2014 8:30:00 PM

Extraction Off (Date/Time): 3/5/2014 12:30:00 PM

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-39500			21.20					
2	LCS-39501			20.20					
3	LCSD-39502			21.40					
4	10258392009			20.00				DP2	1613,T-O
5	10258392010			20.40				DP2	1613,T-O
6	10258392011			20.40				DP2	1613,T-O
7	10258392012			20.30				DP2	1613,T-O
8	10258392013			20.10				DP2	1613,T-O
9	10258392014			20.40				DP2	1613,T-O
10	10258392015			20.60				DP2	1613,T-O
11	10258392016			20.30				DP2	1613,T-O
12	10258392017			23.60				DP2	1613,T-O
13	10258392018			22.30				DP2	1613,T-O
14	10258392019			20.90				DP2	1613,T-O
15	10258392020			21.10				DP2	1613,T-O
16	10258392021			20.70				DP2	1613,T-O
17	10258392022			21.20				DP2	1613,T-O
18	10258392023			20.40				DP2	1613,T-O
19	10258392024			20.50				DP2	1613,T-O

Standards:

Internal Std fs-i-9966-087
Native fs-n-9966-024
Cl-37 Std dwc-9966-085
Recovery Std fs-r-9966-088
Tridecane
Mineral Oil
Others

☐ **Silica:**
Date 3/5/2014
Initials ped/kh
Hexane Lot # 136252
Dispenser ID
Neutral Batch # 246
Basic Batch # 328
Acid Batch # 494

☐ **Alumina:**
Date 3/6/2014
Initials MF
Hexane Lot # 136252
Dispenser ID
60% Batch # 1569
Dispenser ID
Alumina Lot

☐ **Carbon:**
Date 3/6/2014
Initials mf/ped/kh
Toluene Lot # 13196
Dispenser ID
75% Batch # 324
Dispenser ID
50% Batch # 435
Dispenser ID
Hexane Lot # 136252
Dispenser ID

Extract Solvents:
Toluene Lot #
Hexane Lot # 136252
MeCl Lot # 132700

☐ **Acid Base:**
H2SO4 Lot #
Buffer Soln #

QC Matrix Lot/Batch# _____

Extracts Relinquished By: _____ **Received By:** _____ **Date:** _____

FH025Rev.01, 05Jan2009

Extraction Notes

ft.kh

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

	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: C:\MassLynx\Default.pro\Sampledb\F140227B.SPL
Last Modified: Thursday, February 27, 2014 5:42:19 PM Central Standard Time
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Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	Process
1	F140227B_01	CAL CS3/CPM-7604-293 - SMT AS Ca	8290/1613B	dioxfur	dioxfur	1	1.000000	---
2	F140227B_02	BLANK BLANK-39455 - SMT	8290/1613B	dioxfur	dioxfur	4	1.000000	---
3	F140227B_03	SAMP 10258369001 - SMT [redacted]	1613B-TD	dioxfur	dioxfur	5	1.000000	---
4	F140227B_04	SAMP 10258372001 - SMT [redacted]	1613B-TD	dioxfur	dioxfur	6	1.000000	---
5	F140227B_05	BLANK BLANK-39455 - SMT	8290/1613B	dioxfur	dioxfur	4	1.000000	---
6	F140227B_06	SAMP 10256791017-R - SMT [redacted]	1613B	dioxfur	dioxfur	7	1.000000	---
7	F140227B_07	SAMP 10256791020-R - SMT [redacted]	1613B	dioxfur	dioxfur	8	1.000000	---
8	F140227B_08	SAMP 10256791025-R - SMT [redacted]	1613B	dioxfur	dioxfur	9	1.000000	---
9	F140227B_09	SAMP 10258568001 - SMT [redacted]	1613B	dioxfur	dioxfur	10	1.000000	---
10	F140227B_10	SAMP 10258568002 - SMT [redacted]	1613B	dioxfur	dioxfur	11	1.000000	---
11	F140227B_11	SAMP 10258569001 - SMT [redacted]	1613B	dioxfur	dioxfur	12	1.000000	---
12	F140227B_12	SAMP 10258594001 - SMT [redacted]	1613B	dioxfur	dioxfur	13	1.000000	---
13	F140227B_13	SAMP 201165415 - SMT [redacted]	8290-TD	dioxfur	dioxfur	14	1.000000	---
14	F140227B_14	LCS LCS-39431 - SMT	1613B	dioxfur	dioxfur	15	1.000000	---
15	F140227B_15	LCS LCSD-39432 - SMT	1613B	dioxfur	dioxfur	16	1.000000	---
16	F140227B_16	LCS STD-39479 - SMT 100%	HOUSE	dioxfur	dioxfur	17	1.000000	---
17	F140227B_17	CAL CS3/CPM-7604-293 - SMT	8290/1613B	dioxfur	dioxfur	1	1.000000	---

§24 end only

3/2/14

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F140228B_01	CAL CS3/CPM-7604-293 - CVS reboot, heat, tune	1613B	dioxfur	dioxfur	1	1.000000
2	F140228B_02	LCS LCS-39432 - CVS LCS9	1613B	dioxfur	dioxfur	4	1.000000
3	F140228B_03	Blank Nonane - CVS	1613B	dioxfur	dioxfur	2	1.000000
4	F140228B_04	Blank Blank-39430 - CVS	1613B	dioxfur	dioxfur	5	1.000000
5	F140228B_05	Samp 4091551001 - CVS P WI	1613B	dioxfur	dioxfur	6	1.000000
6	F140228B_06	Samp 4091551002 - CVS P WI	1613B	dioxfur	dioxfur	7	1.000000
7	F140228B_07	Samp 4091551003 - CVS P WI	1613B	dioxfur	dioxfur	8	1.000000
8	F140228B_08	Samp 4091551004 - CVS P WI	1613B	dioxfur	dioxfur	9	1.000000
9	F140228B_09	Samp 4091551005 - CVS P WI	1613B	dioxfur	dioxfur	10	1.000000
10	F140228B_10	Samp 4091551006 - CVS P WI	1613B	dioxfur	dioxfur	11	1.000000
11	F140228B_11	Samp 4091551007 - CVS P WI	1613B	dioxfur	dioxfur	12	1.000000
12	F140228B_12	Samp 4091551008 - CVS P WI	1613B	dioxfur	dioxfur	13	1.000000
13	F140228B_13	Samp 4091551009 - CVS P WI	1613B	dioxfur	dioxfur	14	1.000000
14	F140228B_14	Samp 4091551010 - CVS P WI	1613B	dioxfur	dioxfur	15	1.000000
15	F140228B_15	Samp 4091551011 - CVS P WI	1613B	dioxfur	dioxfur	16	1.000000
16	F140228B_16	Samp 4091551012 - CVS P WI	1613B	dioxfur	dioxfur	17	1.000000

3/3/14

Sample List: C:\MassLynx\Default.pro\Sampledb\F140301B.SPL
Last Modified: Sunday, March 02, 2014 11:44:14 AM Central Standard Time
Printed: Sunday, March 02, 2014 1:16:13 PM Central Standard Time

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	Process
1	F140301B_01	CAL CS3/CPM-7604-293 - BAL TC	8290/1613B	dioxfur	dioxfur	1	1.000000	--- pass all
2	F140301B_02	Blank Nonane - BAL	1613B	dioxfur	dioxfur	2	1.000000	---
3	F140301B_03	Blank Blank-39430 - BAL	1613B	dioxfur	dioxfur	18	1.000000	---
4	F140301B_04	Samp 4091551001 - BAL P WI	1613B	dioxfur	dioxfur	19	1.000000	---
5	F140301B_05	SAMP 10258392001 - BAL PASI-WI	1613B	dioxfur	dioxfur	20	1.000000	---
6	F140301B_06	SAMP 10258392002 - BAL PASI-WI	1613B	dioxfur	dioxfur	21	1.000000	---
7	F140301B_07	SAMP 10258392003 - BAL PASI-WI	1613B	dioxfur	dioxfur	22	1.000000	---
8	F140301B_08	SAMP 10258392004 - BAL PASI-WI	1613B	dioxfur	dioxfur	23	1.000000	---
9	F140301B_09	SAMP 10258392005 - BAL PASI-WI	1613B	dioxfur	dioxfur	24	1.000000	---
10	F140301B_10	SAMP 10258392006 - BAL PASI-WI	1613B	dioxfur	dioxfur	25	1.000000	---
11	F140301B_11	SAMP 10258392007 - BAL PASI-WI	1613B	dioxfur	dioxfur	26	1.000000	---
12	F140301B_12	SAMP 10258392008 - BAL PASI-WI	1613B	dioxfur	dioxfur	27	1.000000	---
13	F140301B_13	SAMP 10258390001 - BAL[redacted]	1613B	dioxfur	dioxfur	28	1.000000	---
14	F140301B_14	CAL CS3/CPM-7604-293 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000	--- pass all
15	F140301B_15	Blank Nonane - BAL	1613B	dioxfur	dioxfur	2	1.000000	---
16	F140301B_16	Blank Nonane - BAL	1613B	dioxfur	dioxfur	2	1.000000	---
17	F140301B_17	SAMP 10258026001 - BAL[redacted]	1613B	dioxfur	dioxfur	29	1.000000	---
18	F140301B_18	SAMP 10258026002 - BAL[redacted]	1613B	dioxfur	dioxfur	30	1.000000	---
19	F140301B_19	SAMP 10258026003 - BAL[redacted]	1613B	dioxfur	dioxfur	31	1.000000	---
20	F140301B_20	SAMP 10258026004 - BAL[redacted]	1613B	dioxfur	dioxfur	32	1.000000	---
21	F140301B_21	BLANK BLANK-39481 - BAL	HOUSE	dioxfur	dioxfur	33	1.000000	---
22	F140301B_22	BLANK BLANK-39400 - BAL	HOUSE	dioxfur	dioxfur	34	1.000000	---
23	F140301B_23	SAMP MDL-39393 - BAL	HOUSE	dioxfur	dioxfur	35	1.000000	---
24	F140301B_24	SAMP MDL-39394 - BAL	HOUSE	dioxfur	dioxfur	36	1.000000	---
25	F140301B_25	SAMP MDL-39395 - BAL	HOUSE	dioxfur	dioxfur	37	1.000000	---
26	F140301B_26	SAMP MDL-39396 - BAL	HOUSE	dioxfur	dioxfur	38	1.000000	---
27	F140301B_27	SAMP MDL-39397 - BAL	HOUSE	dioxfur	dioxfur	39	1.000000	---
28	F140301B_28	SAMP MDL-39398 - BAL	HOUSE	dioxfur	dioxfur	40	1.000000	---
29	F140301B_29	SAMP MDL-39399 - BAL	HOUSE	dioxfur	dioxfur	41	1.000000	---
30	F140301B_30	CAL CS3/CPM-7604-293 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000	--- pass all

SWH 3/7/14

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	
1	F140306A_01	CAL CS3/CPM-7604-301 - SMT AS TC	8290/1613B	dioxfur	dioxfur	1	1.000000	V>25%
2	F140306A_02	CAL CS3/CPM-7604-301 - SMT 0.5M	8290/1613B	dioxfur	dioxfur	1	1.000000	
3	F140306A_03	LCS LCS-39509 - SMT	8290/1613B	dioxfur	dioxfur	4	1.000000	
4	F140306A_04	SAMP 10259125001-MS - SMT [redacted]	8290	dioxfur	dioxfur	5	1.000000	
5	F140306A_05	SAMP 10259125001-MSD - SMT [redacted]	8290	dioxfur	dioxfur	6	1.000000	
6	F140306A_06	CAL CS3/CPM-7604-301 - SMT	8290/1613B	dioxfur	dioxfur	1	1.000000	13:36
7	F140306A_07	LCS LCS-39485 - SMT	1613B	dioxfur	dioxfur	4	1.000000	
8	F140306A_08	LCS LCSD-39525 - SMT	1613B	dioxfur	dioxfur	5	1.000000	
9	F140306A_09	LCS LCS-39498 - SMT	8290/1613B	dioxfur	dioxfur	6	1.000000	
10	F140306A_10	LCS LCSD-39499 - SMT	8290/1613B	dioxfur	dioxfur	7	1.000000	
11	F140306A_11	BLANK BLANK-38129-10X - SMT	HOUSE	dioxfur	dioxfur	3	1.000000	
12	F140306A_12	SAMP 201167503 - SMT [redacted] 3/7	1613B-TD	dioxfur	dioxfur	8	1.000000	
13	F140306A_13	BLANK BLANK-39484 - SMT	1613B	dioxfur	dioxfur	9	1.000000	
14	F140306A_14	SAMP 10257900008 - SMT [redacted]	1613B	dioxfur	dioxfur	10	1.000000	
15	F140306A_15	SAMP 10257900009 - SMT [redacted]	1613B	dioxfur	dioxfur	11	1.000000	
16	F140306A_16	SAMP 10257900010 - SMT [redacted]	1613B	dioxfur	dioxfur	12	1.000000	
17	F140306A_17	SAMP 10257900011 - SMT [redacted]	1613B	dioxfur	dioxfur	13	1.000000	
18	F140306A_18	SAMP 10257900012 - SMT [redacted]	1613B	dioxfur	dioxfur	14	1.000000	
19	F140306A_19	SAMP 10257900013 - SMT [redacted]	1613B	dioxfur	dioxfur	15	1.000000	
20	F140306A_20	SAMP 10258707001 - SMT [redacted]	8290	dioxfur	dioxfur	16	1.000000	
21	F140306A_21	SAMP 10257919001-R - SMT [redacted] ①	8290	dioxfur	dioxfur	17	1.000000	out time
22	F140306A_22	SAMP 35127308001 - SMT FL 12hrs?	1613B-TD	dioxfur	dioxfur	18	1.000000	pw/ all
23	F140306A_23	CAL CS3/CPM-7604-301 - SMT	8290/1613B	dioxfur	dioxfur	1	1.000000	

① 10257191001 3/7/14

3/7/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 3/6/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140306A.SPL

Last Modified: Thursday, March 06, 2014 16:32:56 Central Standard Time

Printed: Thursday, March 06, 2014 17:14:10 Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140306A_01	CAL CS3/CPM-7604-293 - SMT TC	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U140306A_02	CAL CS3/CPM-7604-293 - SMT bad inj	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
3	U140306A_03	CAL CS3/CPM-7604-301 - SMT	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
4	U140306A_04	CAL CS2-7604-276 - SMT	82901613B	dioxfur	dioxfur	Tray1:4	1.000000
5	U140306A_05	CAL CS1-7604-273 - SMT	82901613B	dioxfur	dioxfur	Tray1:5	1.000000
6	U140306A_06	CAL CS5-7604-278 - SMT	82901613B	dioxfur	dioxfur	Tray1:6	1.000000
7	U140306A_07	CAL CS4-7604-277 - SMT	82901613B	dioxfur	dioxfur	Tray1:7	1.000000
8	U140306A_08	BLANK NONANE - SMT	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000
9	U140306A_09	CAL LCS-37562 - SMT 2nd	82901613B	dioxfur	dioxfur	Tray1:8	1.000000
10	U140306A_10	CAL CS1-9966-079 - SMT windows	1668A-sl	pace1668	pace1668	Tray1:4	1.000000
11	U140306A_11	CAL CS1-9966-079 - SMT windows	1668A-sl	pace1668	pace1668	Tray1:4	1.000000

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Sample List: C:\MassLynx\Default.pro\Sampledb\F140307A.SPL

Last Modified: Thursday, March 06, 2014 5:54:43 PM Central Standard Time

Printed: Thursday, March 06, 2014 5:54:45 PM Central Standard Time

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	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	Process
1	F140307A_01	BLANK BLANK-38129-10X - SMT	HOUSE	dioxfur	dioxfur	3	1.000000	---
2	F140307A_02	SAMP 35127308001 - SMT[redacted]	1613B-TD	dioxfur	dioxfur	18	1.000000	---
3	F140307A_03	SAMP 10258536001 - SMT[redacted]	1613B-TD	dioxfur	dioxfur	19	1.000000	---
4	F140307A_04	SAMP 10258392015 - SMT WI	1613B	dioxfur	dioxfur	20	1.000000	---
5	F140307A_05	SAMP 10258392016 - SMT WI	1613B	dioxfur	dioxfur	21	1.000000	---
6	F140307A_06	SAMP 10258392017 - SMT WI	1613B	dioxfur	dioxfur	22	1.000000	---
7	F140307A_07	SAMP 10258392018 - SMT WI	1613B	dioxfur	dioxfur	23	1.000000	---
8	F140307A_08	SAMP 10258392019 - SMT WI	1613B	dioxfur	dioxfur	24	1.000000	---
9	F140307A_09	SAMP 10258392020 - SMT WI	1613B	dioxfur	dioxfur	25	1.000000	---
10	F140307A_10	SAMP 10258392021 - SMT WI	1613B	dioxfur	dioxfur	26	1.000000	---
11	F140307A_11	SAMP 10258392022 - SMT WI	1613B	dioxfur	dioxfur	27	1.000000	---
12	F140307A_12	SAMP 10258392023 - SMT WI	1613B	dioxfur	dioxfur	28	1.000000	---
13	F140307A_13	SAMP 10258392024 - SMT WI	1613B	dioxfur	dioxfur	29	1.000000	---
14	F140307A_14	SAMP 10259113001 - SMT[redacted]	1613B-TD	dioxfur	dioxfur	30	1.000000	---
15	F140307A_15	SAMP 10258799001 - SMT[redacted]	1613B-TD	dioxfur	dioxfur	31	1.000000	---

Smt 3/7/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 3/7/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140307A.SPL

Last Modified: Thursday, March 06, 2014 17:55:53 Central Standard Time

Printed: Thursday, March 06, 2014 17:55:58 Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140307A_01	CAL CS3/CPM-7604-293 - SMT	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U140307A_02	LCS LCS-39501 - SMT	1613B	dioxfur	dioxfur	Tray1:19	1.000000
3	U140307A_03	LCS LCSD-39502 - SMT	1613B	dioxfur	dioxfur	Tray1:20	1.000000
4	U140307A_04	BLANK BLANK-38129-10X - SMT	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
5	U140307A_05	SAMP 10258535001 - SMT[redacted]	1613B-TD	dioxfur	dioxfur	Tray1:18	1.000000
6	U140307A_06	BLANK BLANK-39500 - SMT	1613B	dioxfur	dioxfur	Tray1:21	1.000000
7	U140307A_07	SAMP 10258392009 - SMT WI	1613B	dioxfur	dioxfur	Tray1:22	1.000000
8	U140307A_08	SAMP 10258392010 - SMT WI	1613B	dioxfur	dioxfur	Tray1:23	1.000000
9	U140307A_09	SAMP 10258392011 - SMT WI	1613B	dioxfur	dioxfur	Tray1:24	1.000000
10	U140307A_10	SAMP 10258392012 - SMT WI	1613B	dioxfur	dioxfur	Tray1:25	1.000000
11	U140307A_11	SAMP 10258392013 - SMT WI	1613B	dioxfur	dioxfur	Tray1:26	1.000000
12	U140307A_12	SAMP 10258392014 - SMT WI	1613B	dioxfur	dioxfur	Tray1:27	1.000000

per all

Swa 3/7/14

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	MAK101O		
Lab Sample ID	10258392001		
Filename	F140301B_05		
Injected By	BAL		
Total Amount Extracted	20.1 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 10:02
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 15:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.074	0.028	PJ	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.100	-----	0.028	J	2,3,7,8-TCDD-13C	2.00	98
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	0.034		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.034		1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	-----	0.052		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.039		2,3,4,6,7,8-HxCDF-13C	2.00	88
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	77
1,2,3,7,8-PeCDD	ND	-----	0.049		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.049		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	-----	0.034	0.028	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.029		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	0.037	-----	0.027	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.034		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.037	-----	0.029	J	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	93
1,2,3,6,7,8-HxCDD	0.047	-----	0.041	J			
1,2,3,7,8,9-HxCDD	ND	-----	0.037				
Total HxCDD	0.047	-----	0.039	J			
1,2,3,4,6,7,8-HpCDF	0.045	-----	0.030	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.057	-----	0.034	BJ	Equivalence: 0.021 ng/Kg		
Total HpCDF	0.100	-----	0.032	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.093	-----	0.034	J			
Total HpCDD	0.210	-----	0.034	J			
OCDF	-----	0.170	0.110	IJ			
OCDD	-----	0.300	0.140	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

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
P = PCDE Interference
I = Interference present

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK102O		
Lab Sample ID	10258392002		
Filename	F140301B_06		
Injected By	BAL		
Total Amount Extracted	20.3 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 10:30
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 16:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.065	0.038	PJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	0.060	-----	0.038	J	2,3,7,8-TCDD-13C	2.00	101
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.037		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	0.092	-----	0.037	J	1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.049		1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	ND	-----	0.029		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.039		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.038		1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	ND	-----	0.038		1,2,3,4,6,7,8-HpCDF-13C	2.00	83
					1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.040		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.039				
1,2,3,7,8,9-HxCDF	ND	-----	0.043		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.041		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.032		2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	ND	-----	0.033				
1,2,3,7,8,9-HxCDD	ND	-----	0.033				
Total HxCDD	ND	-----	0.033				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.024		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.032		Equivalence: 0.0075 ng/Kg		
Total HpCDF	ND	-----	0.028		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.100	0.040	IJ			
Total HpCDD	0.085	-----	0.040	J			
OCDF	ND	-----	0.110				
OCDD	-----	0.270	0.190	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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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK103O		
Lab Sample ID	10258392003		
Filename	F140301B_07		
Injected By	BAL		
Total Amount Extracted	20.0 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 11:02
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 16:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.070	0.040	PJ	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.110	-----	0.040	J	2,3,7,8-TCDD-13C	2.00	94
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	0.038		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.038		1,2,3,7,8-PeCDD-13C	2.00	94
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.056		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.038		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	ND	-----	0.047		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	0.034		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.034		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	-----	0.041		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.038		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.036				
1,2,3,7,8,9-HxCDF	ND	-----	0.042		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	-----	0.041		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	-----	0.043				
Total HxCDD	ND	-----	0.042				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.036		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.042		Equivalence: 0.0078 ng/Kg		
Total HpCDF	ND	-----	0.039		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.068	-----	0.050	J			
Total HpCDD	0.130	-----	0.050	J			
OCDF	ND	-----	0.140				
OCDD	-----	0.280	0.250	IJ			

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

Client - PASI Wisconsin

Client's Sample ID	MAK104O		
Lab Sample ID	10258392004		
Filename	F140301B_08		
Injected By	BAL		
Total Amount Extracted	20.6 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 11:30
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 17:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.074	-----	0.033	J	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.150	-----	0.033	J	2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	0.041		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.041		1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.049		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.043		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.049		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	-----	0.049		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.039		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.036		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.034				
1,2,3,7,8,9-HxCDF	ND	-----	0.041		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.038		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.032		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	-----	0.034				
1,2,3,7,8,9-HxCDD	ND	-----	0.032				
Total HxCDD	ND	-----	0.033				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.028		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.035		Equivalence: 0.0081 ng/Kg		
Total HpCDF	ND	-----	0.031		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.070	-----	0.039	J			
Total HpCDD	0.140	-----	0.039	J			
OCDF	ND	-----	0.130				
OCDD	0.400	-----	0.210	BJ			

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

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Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK105O		
Lab Sample ID	10258392005		
Filename	F140301B_09		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 11:58
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 18:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.075	-----	0.039	J	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.075	-----	0.039	J	2,3,7,8-TCDD-13C	2.00	94
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.034		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.034		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.052		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	86
Total PeCDF	ND	-----	0.043		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.043		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.043		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.040		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.034		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.036				
1,2,3,7,8,9-HxCDF	ND	-----	0.050		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	-----	0.046		2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	ND	-----	0.046				
1,2,3,7,8,9-HxCDD	ND	-----	0.041				
Total HxCDD	ND	-----	0.044				
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	-----	0.046		Equivalence: 0.0083 ng/Kg		
Total HpCDF	ND	-----	0.039		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.069	-----	0.048	J			
Total HpCDD	0.150	-----	0.048	J			
OCDF	ND	-----	0.120				
OCDD	0.310	-----	0.270	BJ			

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

ND = Not Detected
NA = Not Applicable
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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	MAK106O		
Lab Sample ID	10258392006		
Filename	F140301B_10		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 12:20
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 19:18

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.067	0.032	PJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.043	-----	0.032	J	2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	0.031		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.031		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	0.042		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.032		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.037		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.038		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.038		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.037		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.028		OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	-----	0.030				
1,2,3,7,8,9-HxCDF	ND	-----	0.040		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	-----	0.034		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	0.034				
1,2,3,7,8,9-HxCDD	ND	-----	0.034				
Total HxCDD	ND	-----	0.034				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.028		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.032		Equivalence: 0.0077 ng/Kg		
Total HpCDF	ND	-----	0.030		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.092	-----	0.038	J			
Total HpCDD	0.160	-----	0.038	J			
OCDF	ND	-----	0.100				
OCDD	0.280	-----	0.190	BJ			

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

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK107O		
Lab Sample ID	10258392007		
Filename	F140301B_11		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 13:05
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 20:05

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.051		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.072	-----	0.051	J	2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.049		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.049		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	0.062		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.049		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.056		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	-----	0.045		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.045		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.053		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.042		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.039				
1,2,3,7,8,9-HxCDF	ND	-----	0.060		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.049		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.049		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.052				
1,2,3,7,8,9-HxCDD	ND	-----	0.047				
Total HxCDD	ND	-----	0.049				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.036		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.053		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.045		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.070				
Total HpCDD	ND	-----	0.070				
OCDF	ND	-----	0.140				
OCDD	ND	-----	0.270				

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

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J = Estimated value

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

Client - PASI Wisconsin

Client's Sample ID	MAK108O		
Lab Sample ID	10258392008		
Filename	F140301B_12		
Injected By	BAL		
Total Amount Extracted	20.5 g	Matrix	Octopus
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 14:20
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140301B_01	Extracted	02/25/2014 21:00
Method Blank ID	BLANK-39430	Analyzed	03/01/2014 20:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.037		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.100	-----	0.037	J	2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.029		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.029		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.052		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.033		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	0.042		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.044		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.044		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	ND	-----	0.031		1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	-----	0.025		OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	ND	-----	0.029				
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	-----	0.039		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.038				
1,2,3,7,8,9-HxCDD	ND	-----	0.035				
Total HxCDD	ND	-----	0.037				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.028		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.030		Equivalence: 0.00089 ng/Kg		
Total HpCDF	ND	-----	0.029		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.086	0.045	IJ			
Total HpCDD	0.070	-----	0.045	J			
OCDF	ND	-----	0.091				
OCDD	0.330	-----	0.160	BJ			

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK102C		
Lab Sample ID	10258392009		
Filename	U140307A_07		
Injected By	SMT		
Total Amount Extracted	20.0 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 10:02
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 09:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.063	0.053	IJ	2,3,7,8-TCDF-13C	2.00	52
Total TCDF	0.093	-----	0.053	BJ	2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	ND	-----	0.045		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	-----	0.045		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.025		1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	0.016		2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	-----	0.021		1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.023		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	ND	-----	0.023		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.034		1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	0.028		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	0.033				
1,2,3,7,8,9-HxCDF	ND	-----	0.048		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.036		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.047		2,3,7,8-TCDD-37Cl4	0.20	59
1,2,3,6,7,8-HxCDD	ND	-----	0.057				
1,2,3,7,8,9-HxCDD	ND	-----	0.048				
Total HxCDD	ND	-----	0.050				
1,2,3,4,6,7,8-HpCDF	-----	0.031	0.027	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.033		Equivalence: 0.0079 ng/Kg		
Total HpCDF	ND	-----	0.030		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.130	0.047	IJ			
Total HpCDD	0.082	-----	0.047	J			
OCDF	ND	-----	0.081				
OCDD	-----	0.400	0.210	IJ			

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK103C		
Lab Sample ID	10258392010		
Filename	U140307A_08		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 10:22
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 10:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.072	-----	0.046	BJ	2,3,7,8-TCDF-13C	2.00	58
Total TCDF	0.140	-----	0.046	BJ	2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.036		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.036		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.023		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	-----	0.022	0.019	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	0.021		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.020		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.020		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	-----	0.028		1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	-----	0.024		OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	-----	0.028				
1,2,3,7,8,9-HxCDF	ND	-----	0.038		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	-----	0.036		2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	-----	0.042				
1,2,3,7,8,9-HxCDD	ND	-----	0.036				
Total HxCDD	ND	-----	0.038				
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	-----	0.048		Equivalence: 0.020 ng/Kg		
Total HpCDF	ND	-----	0.037		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.140	-----	0.054	J			
Total HpCDD	0.140	-----	0.054	J			
OCDF	ND	-----	0.074				
OCDD	0.610	-----	0.180	J			

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

Client - PASI Wisconsin

Client's Sample ID	MAK104C		
Lab Sample ID	10258392011		
Filename	U140307A_09		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 11:00
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 11:08

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	-----	0.051	BJ	2,3,7,8-TCDF-13C	2.00	53
Total TCDF	0.11	-----	0.051	BJ	2,3,7,8-TCDD-13C	2.00	61
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	-----	0.060		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.060		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.024		1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	ND	-----	0.020		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	0.022		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	-----	0.027		1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	-----	0.027		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	-----	0.021		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	0.016		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	0.018				
1,2,3,7,8,9-HxCDF	ND	-----	0.027		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.020		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	67
1,2,3,6,7,8-HxCDD	ND	-----	0.036				
1,2,3,7,8,9-HxCDD	ND	-----	0.032				
Total HxCDD	ND	-----	0.033				
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	-----	0.043		Equivalence: 0.012 ng/Kg		
Total HpCDF	ND	-----	0.038		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.12	-----	0.049	J			
Total HpCDD	0.12	-----	0.049	J			
OCDF	ND	-----	0.094				
OCDD	-----	0.29	0.180	IJ			

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK105C		
Lab Sample ID	10258392012		
Filename	U140307A_10		
Injected By	SMT		
Total Amount Extracted	20.3 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 11:30
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 11:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.052	0.047	IJ	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	0.062	-----	0.047	BJ	2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	0.039		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.039		1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.022		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.015		2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	0.018		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.017		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	-----	0.017		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	-----	0.022		1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	0.018		OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	-----	0.017				
1,2,3,7,8,9-HxCDF	ND	-----	0.027		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.021		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.024		2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	0.026				
1,2,3,7,8,9-HxCDD	ND	-----	0.026				
Total HxCDD	ND	-----	0.025				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.024		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.036		Equivalence: 0.0060 ng/Kg		
Total HpCDF	ND	-----	0.030		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.073	0.043	IJ			
Total HpCDD	0.087	-----	0.043	J			
OCDF	ND	-----	0.080				
OCDD	-----	0.220	0.084	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
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	MAK106C		
Lab Sample ID	10258392013		
Filename	U140307A_11		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 12:05
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 12:38

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.070	-----	0.046	BJ	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.140	-----	0.046	BJ	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	-----	0.034		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	0.034		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	0.026		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.019		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.022		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	-----	0.023		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.023		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.022		1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	0.017		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	0.018				
1,2,3,7,8,9-HxCDF	ND	-----	0.029		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.021		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.028		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.031				
1,2,3,7,8,9-HxCDD	ND	-----	0.028				
Total HxCDD	ND	-----	0.029				
1,2,3,4,6,7,8-HpCDF	0.056	-----	0.024	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.047		Equivalence: 0.0085 ng/Kg		
Total HpCDF	0.056	-----	0.035	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.094	-----	0.073	J			
Total HpCDD	0.094	-----	0.073	J			
OCDF	ND	-----	0.043				
OCDD	0.370	-----	0.065	J			

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

Client - PASI Wisconsin

Client's Sample ID	MAK107C		
Lab Sample ID	10258392014		
Filename	U140307A_12		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 12:40
ICAL ID	U140306	Received	02/20/2014 09:35
CCal Filename(s)	U140307A_01	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 13:23

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.054	0.050	IJ	2,3,7,8-TCDF-13C	2.00	58
Total TCDF	ND	-----	0.050		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	-----	0.058		1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	-----	0.022		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.016		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.019		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	0.016		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.016		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.024		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.021		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	0.020				
1,2,3,7,8,9-HxCDF	ND	-----	0.035		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	-----	0.026		2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	ND	-----	0.024				
1,2,3,7,8,9-HxCDD	ND	-----	0.024				
Total HxCDD	ND	-----	0.025				
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	-----	0.037		Equivalence: 0.0063 ng/Kg		
Total HpCDF	ND	-----	0.029		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.082	0.036	IJ			
Total HpCDD	ND	-----	0.036				
OCDF	ND	-----	0.058				
OCDD	-----	0.230	0.130	IJ			

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

Client - PASI Wisconsin

Client's Sample ID	MAK108C		
Lab Sample ID	10258392015		
Filename	F140307A_04		
Injected By	SMT		
Total Amount Extracted	20.6 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 13:50
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 06:05

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.072	0.048	IJ	2,3,7,8-TCDF-13C	2.00	55
Total TCDF	0.062	-----	0.048	BJ	2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.048		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	0.048		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.042		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	0.038	-----	0.033	J	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	0.038	-----	0.037	BJ	1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	0.043		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.043		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	0.049	-----	0.030	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.028		OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	0.061	-----	0.024	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.033		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.110	-----	0.029	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.037	-----	0.032	J	2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	ND	-----	0.035				
1,2,3,7,8,9-HxCDD	-----	0.033	0.032	IJ			
Total HxCDD	0.037	-----	0.033	J			
1,2,3,4,6,7,8-HpCDF	-----	0.058	0.026	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.034		Equivalence: 0.046 ng/Kg		
Total HpCDF	ND	-----	0.030		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.100	0.036	IJ			
Total HpCDD	0.100	-----	0.036	J			
OCDF	0.240	-----	0.075	J			
OCDD	0.650	-----	0.110	J			

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

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NC = Not Calculated

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B = Less than 10x higher than method blank level
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Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK110C		
Lab Sample ID	10258392016		
Filename	F140307A_05		
Injected By	SMT		
Total Amount Extracted	20.3 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014 09:55
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 06:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.078	0.043	IJ	2,3,7,8-TCDF-13C	2.00	52
Total TCDF	ND	-----	0.043		2,3,7,8-TCDD-13C	2.00	63
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.038		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	-----	0.038		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	67
1,2,3,7,8-PeCDF	ND	-----	0.051		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.040		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	0.038		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.038		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	-----	0.033	0.031	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	-----	0.021		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	-----	0.030	0.021	IJ			
1,2,3,7,8,9-HxCDF	-----	0.038	0.027	IJ	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	-----	0.031		2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	ND	-----	0.030				
1,2,3,7,8,9-HxCDD	ND	-----	0.029				
Total HxCDD	ND	-----	0.030				
1,2,3,4,6,7,8-HpCDF	-----	0.065	0.030	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.036		Equivalence: 0.020 ng/Kg		
Total HpCDF	ND	-----	0.033		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.15	-----	0.058	J			
Total HpCDD	0.15	-----	0.058	J			
OCDF	-----	0.120	0.089	IJ			
OCDD	0.73	-----	0.060	J			

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

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I = Interference present

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK101L		
Lab Sample ID	10258392017		
Filename	F140307A_06		
Injected By	SMT		
Total Amount Extracted	23.6 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 09:10
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 07:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.061		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	0.380	-----	0.061	BJ	2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.039		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	0.039		1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	ND	-----	0.038		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.032		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	0.035		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	0.026		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.026		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	-----	0.023	0.017	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	-----	0.016		OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	-----	0.019	0.017	IJ			
1,2,3,7,8,9-HxCDF	0.024	-----	0.023	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.024	-----	0.018	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.090	0.048	IJ	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	0.059				
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	ND	-----	0.052				
1,2,3,4,6,7,8-HpCDF	-----	0.040	0.025	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.034		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.030		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.045	0.024	IJ			
Total HpCDD	ND	-----	0.024				
OCDF	-----	0.120	0.070	IJ			
OCDD	0.510	-----	0.099	J			

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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
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK102L		
Lab Sample ID	10258392018		
Filename	F140307A_07		
Injected By	SMT		
Total Amount Extracted	22.3 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 10:02
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 08:26

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.067	0.056	IJ	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	-----	0.056		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.037		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.037		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.044		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.034		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.039		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	-----	0.030		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.030		1,2,3,4,6,7,8-HpCDF-13C	2.00	84
					1,2,3,4,7,8,9-HpCDF-13C	2.00	88
1,2,3,4,7,8-HxCDF	ND	-----	0.028		1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	ND	-----	0.026		OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	-----	0.027				
1,2,3,7,8,9-HxCDF	ND	-----	0.029		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	-----	0.033		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	0.040				
1,2,3,7,8,9-HxCDD	ND	-----	0.035				
Total HxCDD	ND	-----	0.036				
1,2,3,4,6,7,8-HpCDF	0.056	-----	0.028	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.036		Equivalence: 0.0084 ng/Kg		
Total HpCDF	0.056	-----	0.032	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.100	0.037	IJ			
Total HpCDD	0.130	-----	0.037	J			
OCDF	ND	-----	0.140				
OCDD	0.800	-----	0.100	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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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	MAK105L		
Lab Sample ID	10258392019		
Filename	F140307A_08		
Injected By	SMT		
Total Amount Extracted	20.9 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/13/2014 15:20
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 09:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.094		2,3,7,8-TCDF-13C	2.00	60
Total TCDF	ND	-----	0.094		2,3,7,8-TCDD-13C	2.00	71
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.053		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	0.053		1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	0.060		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.043		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.051		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	0.042		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.042		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	ND	-----	0.029		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	0.029	-----	0.025	J	OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	0.022				
1,2,3,7,8,9-HxCDF	ND	-----	0.028		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.029	-----	0.026	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.056	0.045	IJ	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	0.059				
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	ND	-----	0.051				
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	-----	0.038		Equivalence: 0.0092 ng/Kg		
Total HpCDF	ND	-----	0.037		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.065	0.043	IJ			
Total HpCDD	ND	-----	0.043				
OCDF	ND	-----	0.120				
OCDD	0.360	-----	0.130	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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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	MAK106L		
Lab Sample ID	10258392020		
Filename	F140307A_09		
Injected By	SMT		
Total Amount Extracted	21.1 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014 08:45
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 09:59

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.086		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	0.086		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.064		2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	ND	-----	0.064		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	0.053		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.036		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.027		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.027		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
					1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	ND	-----	0.023		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	0.023	-----	0.019	J	OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	-----	0.018				
1,2,3,7,8,9-HxCDF	ND	-----	0.025		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.023	-----	0.021	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.049		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	0.051				
1,2,3,7,8,9-HxCDD	ND	-----	0.045				
Total HxCDD	ND	-----	0.048				
1,2,3,4,6,7,8-HpCDF	0.051	-----	0.034	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.048		Equivalence: 0.0028 ng/Kg		
Total HpCDF	0.051	-----	0.041	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.051				
Total HpCDD	0.081	-----	0.051	J			
OCDF	ND	-----	0.130				
OCDD	0.250	-----	0.120	J			

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EMPC = Estimated Maximum Possible Concentration
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J = Estimated value

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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	MAK108,109,110,113L		
Lab Sample ID	10258392021		
Filename	F140307A_10		
Injected By	SMT		
Total Amount Extracted	20.7 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 10:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.130		2,3,7,8-TCDF-13C	2.00	57
Total TCDF	ND	-----	0.130		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	0.056		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	ND	-----	0.056		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	0.047		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	0.035		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	0.100	-----	0.041	BJ	1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	0.053		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.053		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	0.034		1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	-----	0.030		OCDD-13C	4.00	79
2,3,4,6,7,8-HxCDF	ND	-----	0.030				
1,2,3,7,8,9-HxCDF	ND	-----	0.037		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.033		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	69
1,2,3,6,7,8-HxCDD	ND	-----	0.053				
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	ND	-----	0.052				
1,2,3,4,6,7,8-HpCDF	-----	0.049	0.042	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.056		Equivalence: 0.0014 ng/Kg		
Total HpCDF	ND	-----	0.049		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.082	-----	0.075	J			
Total HpCDD	0.082	-----	0.075	J			
OCDF	ND	-----	0.120				
OCDD	0.690	-----	0.120	J			

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

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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	MAK111L		
Lab Sample ID	10258392022		
Filename	F140307A_11		
Injected By	SMT		
Total Amount Extracted	21.2 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014 12:05
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 11:33

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.140		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	-----	0.140		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.057		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.057		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.069		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.048		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	0.058		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	-----	0.041		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.041		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	ND	-----	0.031		1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	-----	0.024		OCDD-13C	4.00	79
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	-----	0.026		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.061		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	0.055				
1,2,3,7,8,9-HxCDD	ND	-----	0.053				
Total HxCDD	ND	-----	0.056				
1,2,3,4,6,7,8-HpCDF	-----	0.064	0.053	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.063		Equivalence: 0.0017 ng/Kg		
Total HpCDF	ND	-----	0.058		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.098	0.054	IJ			
Total HpCDD	0.15	-----	0.054	J			
OCDF	ND	-----	0.140				
OCDD	0.79	-----	0.160	J			

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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	MAK112L		
Lab Sample ID	10258392023		
Filename	F140307A_12		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014 12:50
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 12:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.130		2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	-----	0.130		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.055		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	-----	0.055		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	-----	0.047		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.037		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	0.067	-----	0.042	BJ	1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	-----	0.036		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.036		1,2,3,4,6,7,8-HpCDF-13C	2.00	82
					1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	ND	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	97
1,2,3,6,7,8-HxCDF	ND	-----	0.043		OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	-----	0.034				
1,2,3,7,8,9-HxCDF	ND	-----	0.040		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	-----	0.048		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	0.056				
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	ND	-----	0.051				
1,2,3,4,6,7,8-HpCDF	-----	0.054	0.053	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.057		Equivalence: 0.0013 ng/Kg		
Total HpCDF	ND	-----	0.055		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.070	0.065	IJ			
Total HpCDD	0.140	-----	0.065	J			
OCDF	ND	-----	0.160				
OCDD	-----	0.440	0.160	IJ			

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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

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Minneapolis, MN 55414

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

Client - PASI Wisconsin

Client's Sample ID	MAK115L		
Lab Sample ID	10258392024		
Filename	F140307A_13		
Injected By	SMT		
Total Amount Extracted	20.5 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/14/2014 14:00
ICAL ID	F131125	Received	02/20/2014 09:35
CCal Filename(s)	F140306A_23	Extracted	03/04/2014 20:30
Method Blank ID	BLANK-39500	Analyzed	03/07/2014 13:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.075		2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	0.075		2,3,7,8-TCDD-13C	2.00	76
					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	78
Total TCDD	ND	-----	0.082		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.062		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.056		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	0.160	-----	0.059	BJ	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	ND	-----	0.052		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.052		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	ND	-----	0.032		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.036		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	ND	-----	0.035				
1,2,3,7,8,9-HxCDF	ND	-----	0.046		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	-----	0.079		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	0.083				
1,2,3,7,8,9-HxCDD	ND	-----	0.070				
Total HxCDD	ND	-----	0.078				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.040		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.041		Equivalence: 0.000040 ng/Kg		
Total HpCDF	ND	-----	0.040		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.075				
Total HpCDD	0.075	-----	0.075	J			
OCDF	ND	-----	0.130				
OCDD	0.400	-----	0.230	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.
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Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-39430	Matrix	Tissue
Filename	F140228B_04	Dilution	NA
Total Amount Extracted	20.3 g	Extracted	02/25/2014 21:00
ICAL ID	F131125	Analyzed	02/28/2014 13:15
CCal Filename(s)	F140228B_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	ND	-----	0.12		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	0.12		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	0.16		2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	-----	0.16		1,2,3,7,8-PeCDD-13C	2.00	66
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.15		1,2,3,6,7,8-HxCDF-13C	2.00	101
2,3,4,7,8-PeCDF	ND	-----	0.15		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.15		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.13		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	0.13		1,2,3,4,6,7,8-HpCDF-13C	2.00	84
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	ND	-----	0.11		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	-----	0.11		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	-----	0.24	0.15	IJ			
1,2,3,7,8,9-HxCDF	ND	-----	0.16		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.13		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.13		2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	ND	-----	0.13				
1,2,3,7,8,9-HxCDD	-----	0.18	0.12	IJ			
Total HxCDD	ND	-----	0.13				
1,2,3,4,6,7,8-HpCDF	0.32	-----	0.13	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.26	-----	0.12	J	Equivalence: 0.051 ng/Kg		
Total HpCDF	0.58	-----	0.13	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.32	0.20	IJ			
Total HpCDD	ND	-----	0.20				
OCDF	-----	0.94	0.58	IJ			
OCDD	1.30	-----	0.39	J			

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-39500	Matrix	Tissue
Filename	U140307A_06	Dilution	NA
Total Amount Extracted	21.2 g	Extracted	03/04/2014 20:30
ICAL ID	U140306	Analyzed	03/07/2014 08:54
CCal Filename(s)	U140307A_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	0.084	-----	0.045	J	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	0.230	-----	0.045	J	2,3,7,8-TCDD-13C	2.00	70
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	0.042		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	-----	0.042		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	0.027		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	0.028		2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	0.036	-----	0.028	J	1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	-----	0.031		1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	0.031		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	0.021		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.022		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	0.022				
1,2,3,7,8,9-HxCDF	ND	-----	0.032		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	-----	0.030		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	0.035				
1,2,3,7,8,9-HxCDD	ND	-----	0.037				
Total HxCDD	ND	-----	0.034				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.030		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.045		Equivalence: 0.0084 ng/Kg		
Total HpCDF	ND	-----	0.037		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.065				
Total HpCDD	ND	-----	0.065				
OCDF	ND	-----	0.085				
OCDD	-----	0.11	0.110	IJ			

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

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-39431		
Filename	F140227B_14	Matrix	Tissue
Total Amount Extracted	20.3 g	Dilution	NA
ICAL ID	F131125	Extracted	02/25/2014 21:00
CCal Filename	F140227B_01	Analyzed	02/27/2014 23:41
Method Blank ID	BLANK-39430	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	7.5	15.8	119
2,3,7,8-TCDD	10	8.5	6.7	15.8	85
1,2,3,7,8-PeCDF	50	61	40.0	67.0	121
2,3,4,7,8-PeCDF	50	58	34.0	80.0	115
1,2,3,7,8-PeCDD	50	53	35.0	71.0	105
1,2,3,4,7,8-HxCDF	50	55	36.0	67.0	111
1,2,3,6,7,8-HxCDF	50	55	42.0	65.0	110
2,3,4,6,7,8-HxCDF	50	51	35.0	78.0	102
1,2,3,7,8,9-HxCDF	50	52	39.0	65.0	105
1,2,3,4,7,8-HxCDD	50	59	35.0	82.0	118
1,2,3,6,7,8-HxCDD	50	64	38.0	67.0	128
1,2,3,7,8,9-HxCDD	50	63	32.0	81.0	125
1,2,3,4,6,7,8-HpCDF	50	54	41.0	61.0	108
1,2,3,4,7,8,9-HpCDF	50	46	39.0	69.0	92
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	99
OCDF	100	110	63.0	170.0	111
OCDD	100	110	78.0	144.0	109
2,3,7,8-TCDD-37Cl4	10	9.0	3.1	19.1	90
2,3,7,8-TCDF-13C	100	90	22.0	152.0	90
2,3,7,8-TCDD-13C	100	92	20.0	175.0	92
1,2,3,7,8-PeCDF-13C	100	81	21.0	192.0	81
2,3,4,7,8-PeCDF-13C	100	74	13.0	328.0	74
1,2,3,7,8-PeCDD-13C	100	72	21.0	227.0	72
1,2,3,4,7,8-HxCDF-13C	100	79	19.0	202.0	79
1,2,3,6,7,8-HxCDF-13C	100	93	21.0	159.0	93
2,3,4,6,7,8-HxCDF-13C	100	91	22.0	176.0	91
1,2,3,7,8,9-HxCDF-13C	100	96	17.0	205.0	96
1,2,3,4,7,8-HxCDD-13C	100	76	21.0	193.0	76
1,2,3,6,7,8-HxCDD-13C	100	81	25.0	163.0	81
1,2,3,4,6,7,8-HpCDF-13C	100	73	21.0	158.0	73
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	79	26.0	166.0	79
OCDD-13C	200	150	26.0	397.0	74

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-39501		
Filename	U140307A_02	Matrix	Tissue
Total Amount Extracted	20.2 g	Dilution	NA
ICAL ID	U140306	Extracted	03/04/2014 20:30
CCal Filename	U140307A_01	Analyzed	03/07/2014 05:55
Method Blank ID	BLANK-39500	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	7.5	15.8	116
2,3,7,8-TCDD	10	9.5	6.7	15.8	95
1,2,3,7,8-PeCDF	50	58	40.0	67.0	116
2,3,4,7,8-PeCDF	50	55	34.0	80.0	109
1,2,3,7,8-PeCDD	50	49	35.0	71.0	99
1,2,3,4,7,8-HxCDF	50	57	36.0	67.0	113
1,2,3,6,7,8-HxCDF	50	55	42.0	65.0	110
2,3,4,6,7,8-HxCDF	50	52	35.0	78.0	104
1,2,3,7,8,9-HxCDF	50	53	39.0	65.0	106
1,2,3,4,7,8-HxCDD	50	55	35.0	82.0	109
1,2,3,6,7,8-HxCDD	50	62	38.0	67.0	124
1,2,3,7,8,9-HxCDD	50	59	32.0	81.0	118
1,2,3,4,6,7,8-HpCDF	50	55	41.0	61.0	111
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	101
OCDF	100	110	63.0	170.0	110
OCDD	100	120	78.0	144.0	118
2,3,7,8-TCDD-37Cl4	10	6.8	3.1	19.1	68
2,3,7,8-TCDF-13C	100	62	22.0	152.0	62
2,3,7,8-TCDD-13C	100	67	20.0	175.0	67
1,2,3,7,8-PeCDF-13C	100	71	21.0	192.0	71
2,3,4,7,8-PeCDF-13C	100	71	13.0	328.0	71
1,2,3,7,8-PeCDD-13C	100	77	21.0	227.0	77
1,2,3,4,7,8-HxCDF-13C	100	79	19.0	202.0	79
1,2,3,6,7,8-HxCDF-13C	100	84	21.0	159.0	84
2,3,4,6,7,8-HxCDF-13C	100	83	22.0	176.0	83
1,2,3,7,8,9-HxCDF-13C	100	76	17.0	205.0	76
1,2,3,4,7,8-HxCDD-13C	100	78	21.0	193.0	78
1,2,3,6,7,8-HxCDD-13C	100	69	25.0	163.0	69
1,2,3,4,6,7,8-HpCDF-13C	100	69	21.0	158.0	69
1,2,3,4,7,8,9-HpCDF-13C	100	59	20.0	186.0	59
1,2,3,4,6,7,8-HpCDD-13C	100	65	26.0	166.0	65
OCDD-13C	200	84	26.0	397.0	42

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-39432		
Filename	F140228B_02	Matrix	Tissue
Total Amount Extracted	20.2 g	Dilution	NA
ICAL ID	F131125	Extracted	02/25/2014 21:00
CCal Filename	F140228B_01	Analyzed	02/28/2014 11:43
Method Blank ID	BLANK-39430	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	8.6	6.7	15.8	86
1,2,3,7,8-PeCDF	50	58	40.0	67.0	116
2,3,4,7,8-PeCDF	50	56	34.0	80.0	112
1,2,3,7,8-PeCDD	50	50	35.0	71.0	100
1,2,3,4,7,8-HxCDF	50	59	36.0	67.0	119
1,2,3,6,7,8-HxCDF	50	52	42.0	65.0	104
2,3,4,6,7,8-HxCDF	50	52	35.0	78.0	105
1,2,3,7,8,9-HxCDF	50	54	39.0	65.0	109
1,2,3,4,7,8-HxCDD	50	56	35.0	82.0	112
1,2,3,6,7,8-HxCDD	50	61	38.0	67.0	121
1,2,3,7,8,9-HxCDD	50	56	32.0	81.0	112
1,2,3,4,6,7,8-HpCDF	50	54	41.0	61.0	108
1,2,3,4,7,8,9-HpCDF	50	48	39.0	69.0	96
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	100
OCDF	100	110	63.0	170.0	113
OCDD	100	110	78.0	144.0	111
2,3,7,8-TCDD-37Cl4	10	8.2	3.1	19.1	82
2,3,7,8-TCDF-13C	100	86	22.0	152.0	86
2,3,7,8-TCDD-13C	100	87	20.0	175.0	87
1,2,3,7,8-PeCDF-13C	100	81	21.0	192.0	81
2,3,4,7,8-PeCDF-13C	100	84	13.0	328.0	84
1,2,3,7,8-PeCDD-13C	100	84	21.0	227.0	84
1,2,3,4,7,8-HxCDF-13C	100	86	19.0	202.0	86
1,2,3,6,7,8-HxCDF-13C	100	110	21.0	159.0	105
2,3,4,6,7,8-HxCDF-13C	100	100	22.0	176.0	100
1,2,3,7,8,9-HxCDF-13C	100	97	17.0	205.0	97
1,2,3,4,7,8-HxCDD-13C	100	84	21.0	193.0	84
1,2,3,6,7,8-HxCDD-13C	100	86	25.0	163.0	86
1,2,3,4,6,7,8-HpCDF-13C	100	88	21.0	158.0	88
1,2,3,4,7,8,9-HpCDF-13C	100	92	20.0	186.0	92
1,2,3,4,6,7,8-HpCDD-13C	100	98	26.0	166.0	98
OCDD-13C	200	170	26.0	397.0	85

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

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-39502		
Filename	U140307A_03	Matrix	Tissue
Total Amount Extracted	21.4 g	Dilution	NA
ICAL ID	U140306	Extracted	03/04/2014 20:30
CCal Filename	U140307A_01	Analyzed	03/07/2014 06:40
Method Blank ID	BLANK-39500	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	7.5	15.8	123
2,3,7,8-TCDD	10	9.8	6.7	15.8	98
1,2,3,7,8-PeCDF	50	61	40.0	67.0	122
2,3,4,7,8-PeCDF	50	57	34.0	80.0	115
1,2,3,7,8-PeCDD	50	51	35.0	71.0	102
1,2,3,4,7,8-HxCDF	50	60	36.0	67.0	120
1,2,3,6,7,8-HxCDF	50	57	42.0	65.0	115
2,3,4,6,7,8-HxCDF	50	55	35.0	78.0	110
1,2,3,7,8,9-HxCDF	50	58	39.0	65.0	117
1,2,3,4,7,8-HxCDD	50	60	35.0	82.0	119
1,2,3,6,7,8-HxCDD	50	62	38.0	67.0	125
1,2,3,7,8,9-HxCDD	50	60	32.0	81.0	121
1,2,3,4,6,7,8-HpCDF	50	58	41.0	61.0	116
1,2,3,4,7,8,9-HpCDF	50	52	39.0	69.0	104
1,2,3,4,6,7,8-HpCDD	50	53	35.0	70.0	105
OCDF	100	110	63.0	170.0	109
OCDD	100	120	78.0	144.0	119
2,3,7,8-TCDD-37Cl4	10	7.1	3.1	19.1	71
2,3,7,8-TCDF-13C	100	61	22.0	152.0	61
2,3,7,8-TCDD-13C	100	67	20.0	175.0	67
1,2,3,7,8-PeCDF-13C	100	70	21.0	192.0	70
2,3,4,7,8-PeCDF-13C	100	73	13.0	328.0	73
1,2,3,7,8-PeCDD-13C	100	81	21.0	227.0	81
1,2,3,4,7,8-HxCDF-13C	100	78	19.0	202.0	78
1,2,3,6,7,8-HxCDF-13C	100	82	21.0	159.0	82
2,3,4,6,7,8-HxCDF-13C	100	80	22.0	176.0	80
1,2,3,7,8,9-HxCDF-13C	100	73	17.0	205.0	73
1,2,3,4,7,8-HxCDD-13C	100	76	21.0	193.0	76
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	67	21.0	158.0	67
1,2,3,4,7,8,9-HpCDF-13C	100	61	20.0	186.0	61
1,2,3,4,6,7,8-HpCDD-13C	100	66	26.0	166.0	66
OCDD-13C	200	93	26.0	397.0	46

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-39431
Spike 1 Filename F140227B_14

Spike 2 ID LCSD-39432
Spike 2 Filename F140228B_02

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	119	112	6.1
2,3,7,8-TCDD	85	86	1.2
1,2,3,7,8-PeCDF	121	116	4.2
2,3,4,7,8-PeCDF	115	112	2.6
1,2,3,7,8-PeCDD	105	100	4.9
1,2,3,4,7,8-HxCDF	111	119	7.0
1,2,3,6,7,8-HxCDF	110	104	5.6
2,3,4,6,7,8-HxCDF	102	105	2.9
1,2,3,7,8,9-HxCDF	105	109	3.7
1,2,3,4,7,8-HxCDD	118	112	5.2
1,2,3,6,7,8-HxCDD	128	121	5.6
1,2,3,7,8,9-HxCDD	125	112	11.0
1,2,3,4,6,7,8-HpCDF	108	108	0.0
1,2,3,4,7,8,9-HpCDF	92	96	4.3
1,2,3,4,6,7,8-HpCDD	99	100	1.0
OCDF	111	113	1.8
OCDD	109	111	1.8

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

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client PASI Wisconsin

Spike 1 ID LCS-39501
Spike 1 Filename U140307A_02

Spike 2 ID LCSD-39502
Spike 2 Filename U140307A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	116	123	5.9
2,3,7,8-TCDD	95	98	3.1
1,2,3,7,8-PeCDF	116	122	5.0
2,3,4,7,8-PeCDF	109	115	5.4
1,2,3,7,8-PeCDD	99	102	3.0
1,2,3,4,7,8-HxCDF	113	120	6.0
1,2,3,6,7,8-HxCDF	110	115	4.4
2,3,4,6,7,8-HxCDF	104	110	5.6
1,2,3,7,8,9-HxCDF	106	117	9.9
1,2,3,4,7,8-HxCDD	109	119	8.8
1,2,3,6,7,8-HxCDD	124	125	0.8
1,2,3,7,8,9-HxCDD	118	121	2.5
1,2,3,4,6,7,8-HpCDF	111	116	4.4
1,2,3,4,7,8,9-HpCDF	100	104	3.9
1,2,3,4,6,7,8-HpCDD	101	105	3.9
OCDF	110	109	0.9
OCDD	118	119	0.8

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

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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	**U140306**	Data Files:		Time	Injected
Calibration Date	03/06/2014	CS-1	U140306A_05	10:59	SMT
Instrument	10MSHR06 (U)	CS-2	U140306A_04	10:15	SMT
Column Phase	DB-5MS 0.25mm	CS-3	U140306A_03	09:24	SMT
Column ID No.	USD397111H	CS-4	U140306A_07	13:29	SMT
		CS-5	U140306A_06	12:45	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	1.0142	0.9948	0.9846	1.0052	1.0075	1.0013	1.16
2,3,7,8-TCDD	1.2928	1.1622	1.2898	1.1904	1.1808	1.2232	5.15
1,2,3,7,8-PeCDF	0.9585	0.9564	0.9500	0.9586	0.9970	0.9641	1.94
2,3,4,7,8-PeCDF	1.0071	0.9649	0.9628	0.9984	1.0332	0.9933	3.00
1,2,3,7,8-PeCDD	1.1032	1.1062	1.0917	1.1175	1.1481	1.1133	1.93
1,2,3,4,7,8-HxCDF	1.0763	1.1042	1.0750	1.1025	1.1213	1.0959	1.81
1,2,3,6,7,8-HxCDF	1.0954	1.0775	1.0420	1.1041	1.0773	1.0793	2.21
2,3,4,6,7,8-HxCDF	1.0997	1.1450	1.1315	1.1622	1.1707	1.1418	2.46
1,2,3,7,8,9-HxCDF	0.9948	1.0192	0.9995	1.0478	1.0287	1.0180	2.13
1,2,3,4,7,8-HxCDD	1.1484	1.1372	1.0791	1.0858	1.1321	1.1165	2.84
1,2,3,6,7,8-HxCDD	1.0051	1.0413	0.9730	1.0413	0.9969	1.0115	2.93
1,2,3,7,8,9-HxCDD	1.0724	1.0711	1.0803	1.1113	1.1122	1.0895	1.90
1,2,3,4,6,7,8-HpCDF	1.5010	1.4791	1.4591	1.4594	1.4893	1.4776	1.25
1,2,3,4,7,8,9-HpCDF	1.4749	1.4427	1.4841	1.4517	1.4863	1.4679	1.34
1,2,3,4,6,7,8-HpCDD	1.1923	1.1863	1.1428	1.2156	1.1665	1.1807	2.33
OCDF	1.3811	1.4052	1.3866	1.5973	1.6145	1.4770	8.00
OCDD	1.1296	1.0782	1.0789	1.1258	1.1486	1.1122	2.87
Total PeCDF	0.9828	0.9607	0.9564	0.9785	1.0151	0.9787	2.38
Total HxCDF	1.0665	1.0865	1.0620	1.1041	1.0995	1.0837	1.75
Total HxCDD	1.0753	1.0832	1.0441	1.0795	1.0804	1.0725	1.50
Total HpCDF	1.4879	1.4609	1.4716	1.4556	1.4878	1.4728	1.01
2,3,7,8-TCDF-13C	1.7515	1.7294	1.7666	1.7134	1.7726	1.7467	1.43
2,3,7,8-TCDD-13C	0.9413	0.9832	1.0050	0.9512	1.0137	0.9789	3.27
2,3,7,8-TCDD-37Cl4	1.0683	1.1338	1.1602	1.1470	1.2088	1.1436	4.44
1,2,3,7,8-PeCDF-13C	1.3884	1.3425	1.4606	1.4466	1.5742	1.4425	6.07
2,3,4,7,8-PeCDF-13C	1.4063	1.3604	1.5075	1.4863	1.6486	1.4818	7.46
1,2,3,7,8-PeCDD-13C	0.7883	0.7606	0.8664	0.8046	0.9143	0.8268	7.55
1,2,3,4,7,8-HxCDF-13C	1.1790	1.1974	1.1565	1.1474	1.0929	1.1546	3.43
1,2,3,6,7,8-HxCDF-13C	1.5072	1.5160	1.5037	1.6114	1.5819	1.5440	3.20
2,3,4,6,7,8-HxCDF-13C	1.3897	1.3282	1.3016	1.3497	1.3089	1.3356	2.66
1,2,3,7,8,9-HxCDF-13C	1.1702	1.2257	1.2050	1.2268	1.2252	1.2106	2.01
1,2,3,4,7,8-HxCDD-13C	0.7951	0.7997	0.8522	0.8040	0.7303	0.7963	5.46
1,2,3,6,7,8-HxCDD-13C	1.0953	1.1558	1.1143	1.1312	1.1763	1.1346	2.84
1,2,3,4,6,7,8-HpCDF-13C	0.8957	0.9444	0.9222	0.8972	0.8616	0.9042	3.44
1,2,3,4,7,8,9-HpCDF-13C	0.6589	0.7033	0.7090	0.6814	0.6780	0.6861	2.96
1,2,3,4,6,7,8-HpCDD-13C	0.5721	0.6204	0.6363	0.5600	0.5648	0.5907	5.94
OCDD-13C	0.5675	0.6374	0.6405	0.6162	0.6280	0.6179	4.81

REPORT OF LABORATORY ANALYSIS

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

ICAL ID	**U140306**	Data Files:		Time	Injected
Calibration Date	03/06/2014	CS-1	U140306A_05	10:59	SMT
Instrument	10MSHR06 (U)	CS-2	U140306A_04	10:15	SMT
Column Phase	DB-5MS 0.25mm	CS-3	U140306A_03	09:24	SMT
Column ID No.	USD397111H	CS-4	U140306A_07	13:29	SMT
		CS-5	U140306A_06	12:45	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.84	0.73	0.78	0.77	0.79	0.65 - 0.89
2,3,7,8-TCDD	0.80	0.77	0.79	0.83	0.80	0.65 - 0.89
1,2,3,7,8-PeCDF	1.57	1.63	1.51	1.56	1.55	1.32 - 1.78
2,3,4,7,8-PeCDF	1.54	1.47	1.59	1.54	1.54	1.32 - 1.78
1,2,3,7,8-PeCDD	0.64	0.61	0.62	0.63	0.63	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.24	1.22	1.22	1.23	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.28	1.22	1.22	1.23	1.25	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.27	1.20	1.23	1.23	1.23	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.11	1.20	1.20	1.24	1.29	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.25	1.25	1.25	1.36	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.23	1.25	1.24	1.17	1.26	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.15	1.28	1.25	1.27	1.20	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.04	1.05	1.06	1.08	1.05	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.08	0.97	1.03	1.05	1.05	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.15	1.09	1.11	1.09	1.07	0.88 - 1.20
OCDF	0.91	0.97	0.91	0.92	0.91	0.76 - 1.02
OCDD	0.95	0.89	0.91	0.87	0.90	0.76 - 1.02
1,2,3,4-TCDD-13C	0.81	0.79	0.81	0.80	0.82	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.25	1.23	1.24	1.27	1.30	1.05 - 1.43
2,3,7,8-TCDF-13C	0.80	0.80	0.79	0.79	0.80	0.65 - 0.89
2,3,7,8-TCDD-13C	0.79	0.80	0.79	0.78	0.79	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.58	1.59	1.57	1.56	1.58	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.59	1.58	1.60	1.61	1.56	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.59	1.61	1.61	1.64	1.62	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.51	0.52	0.52	0.53	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.53	0.52	0.52	0.53	0.52	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.52	0.52	0.53	0.52	0.53	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.52	0.51	0.52	0.53	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.29	1.28	1.26	1.26	1.27	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.26	1.27	1.27	1.31	1.26	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.46	0.46	0.46	0.46	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.45	0.45	0.46	0.47	0.46	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.06	1.09	1.08	1.07	1.06	0.88 - 1.20
OCDD-13C	0.90	0.91	0.91	0.86	0.96	0.76 - 1.02

REPORT OF LABORATORY ANALYSIS

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

Lab Name	CS3/CPM-7604-293		
Filename	F140227B_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	02/27/2014 13:35	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	0.80	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.78	0.65 - 0.89	104.2	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.57	1.32 - 1.78	107.0	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	91.9	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.22	1.05 - 1.43	104.1	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.06	0.88 - 1.20	107.3	72 - 138
OCDD-13C	M+2/M+4	0.89	0.76 - 1.02	212.6	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	99.8	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.56	1.32 - 1.78	105.9	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	108.6	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	92.8	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	102.4	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	98.5	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	105.9	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	96.3	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	106.3	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.5	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-7604-293		
Filename	F140227B_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	02/27/2014 13:35	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	10.2	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.61	0.52 - 0.70	52.9	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05 - 1.43	52.4	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05 - 1.43	54.4	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05 - 1.43	54.2	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	50.2	43 - 58
OCDD	M+2/M+4	0.88	0.76 - 1.02	99.1	79 - 126
2,3,7,8-TCDF	M/M+2	0.75	0.65 - 0.89	10.8	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	52.4	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32 - 1.78	51.7	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	51.7	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	51.3	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	51.6	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05 - 1.43	50.6	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88 - 1.20	48.6	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	47.3	43 - 58
OCDF	M+2/M+4	0.89	0.76 - 1.02	99.5	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-7604-293		
Filename	F140228B_01	Instrument ID	10MSHR05 (F)
Injected By	CVS	GC Column ID	USD331524H
Analyzed	02/28/2014 10:48	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	0.78	0.65 - 0.89	95.2	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.62	1.32 - 1.78	87.4	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	100.2	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.33	1.05 - 1.43	114.5	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.31	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.08	0.88 - 1.20	104.9	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	217.4	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.79	0.65 - 0.89	107.1	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.61	1.32 - 1.78	103.1	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.61	1.32 - 1.78	102.6	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	112.2	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	124.2	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	117.5	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	114.3	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.42	0.37 - 0.51	106.4	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	106.6	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.3	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-7604-293		
Filename	F140228B_01	Instrument ID	10MSHR05 (F)
Injected By	CVS	GC Column ID	USD331524H
Analyzed	02/28/2014 10:48	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	0.79	0.65 - 0.89	9.6	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.52 - 0.70	49.4	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.35	1.05 - 1.43	48.9	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.19	1.05 - 1.43	53.3	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05 - 1.43	46.5	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.09	0.88 - 1.20	48.0	43 - 58
OCDD	M+2/M+4	0.85	0.76 - 1.02	94.1	79 - 126
2,3,7,8-TCDF	M/M+2	0.82	0.65 - 0.89	10.0	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32 - 1.78	50.9	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32 - 1.78	51.9	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.32	1.05 - 1.43	51.7	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05 - 1.43	50.0	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.32	1.05 - 1.43	51.9	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05 - 1.43	53.7	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88 - 1.20	49.3	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88 - 1.20	48.6	43 - 58
OCDF	M+2/M+4	0.91	0.76 - 1.02	101.8	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-7604-293		
Filename	F140301B_01	Instrument ID	10MSHR05 (F)
Injected By	BAL	GC Column ID	USD331524H
Analyzed	03/01/2014 12:14	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	0.76	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.77	0.65 - 0.89	104.3	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.55	1.32 - 1.78	98.7	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	89.6	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	108.5	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.04	0.88 - 1.20	102.1	72 - 138
OCDD-13C	M+2/M+4	0.89	0.76 - 1.02	198.6	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.76	0.65 - 0.89	98.5	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.53	1.32 - 1.78	97.1	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.54	1.32 - 1.78	98.8	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	94.3	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	106.4	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	101.0	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	102.1	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	98.5	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	102.8	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.2	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-7604-293		
Filename	F140301B_01	Instrument ID	10MSHR05 (F)
Injected By	BAL	GC Column ID	USD331524H
Analyzed	03/01/2014 12:14	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	9.8	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.61	0.52 - 0.70	49.3	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05 - 1.43	51.8	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	52.4	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05 - 1.43	51.3	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88 - 1.20	49.6	43 - 58
OCDD	M+2/M+4	0.86	0.76 - 1.02	95.5	79 - 126
2,3,7,8-TCDF	M/M+2	0.75	0.65 - 0.89	10.1	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32 - 1.78	49.6	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.51	1.32 - 1.78	49.1	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	50.3	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	48.8	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05 - 1.43	49.2	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05 - 1.43	49.1	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88 - 1.20	47.8	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	45.8	43 - 58
OCDF	M+2/M+4	0.92	0.76 - 1.02	97.8	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-7604-301		
Filename	F140306A_23	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	03/07/2014 02:58	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	0.78	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.78	0.65 - 0.89	103.1	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.61	1.32 - 1.78	106.5	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	94.5	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	107.3	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.20	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.08	0.88 - 1.20	110.9	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	215.0	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	97.8	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	105.7	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.59	1.32 - 1.78	110.8	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	101.5	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	112.3	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	107.3	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	108.1	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.44	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)		10.1	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.

REPORT OF LABORATORY ANALYSIS

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

Lab Name	CS3/CPM-7604-301		
Filename	F140306A_23	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD331524H
Analyzed	03/07/2014 02:58	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	0.72	0.65 - 0.89	9.6	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.61	0.52 - 0.70	51.5	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	51.8	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05 - 1.43	52.1	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05 - 1.43	51.4	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.88 - 1.20	48.0	43 - 58
OCDD	M+2/M+4	0.88	0.76 - 1.02	94.4	79 - 126
2,3,7,8-TCDF	M/M+2	0.76	0.65 - 0.89	10.5	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	52.5	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	51.7	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	53.1	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	50.7	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	52.0	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05 - 1.43	50.8	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88 - 1.20	46.8	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88 - 1.20	45.3	43 - 58
OCDF	M+2/M+4	0.88	0.76 - 1.02	102.1	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-7604-293		
Filename	U140307A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	03/07/2014 05:10	ICAL ID	U140306

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	0.79	0.65 - 0.89	101.0	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.61	1.32 - 1.78	95.5	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.31	1.05 - 1.43	102.1	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.29	1.05 - 1.43	99.7	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	88.0	72 - 138
OCDD-13C	M+2/M+4	0.88	0.76 - 1.02	153.6	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.81	0.65 - 0.89	103.5	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.60	1.32 - 1.78	98.1	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	97.9	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.56	0.43 - 0.59	104.4	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	106.9	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.54	0.43 - 0.59	102.5	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	102.3	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.46	0.37 - 0.51	92.7	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	85.5	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.1	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.

REPORT OF LABORATORY ANALYSIS

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

Lab Name	CS3/CPM-7604-293		
Filename	U140307A_01	Instrument ID	10MSHR06 (U)
Injected By	SMT	GC Column ID	USD397111H
Analyzed	03/07/2014 05:10	ICAL ID	U140306

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	0.76	0.65 - 0.89	10.3	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.64	0.52 - 0.70	50.6	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05 - 1.43	50.9	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05 - 1.43	50.5	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05 - 1.43	53.2	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88 - 1.20	50.0	43 - 58
OCDD	M+2/M+4	0.89	0.76 - 1.02	97.6	79 - 126
2,3,7,8-TCDF	M/M+2	0.78	0.65 - 0.89	10.2	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	51.8	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32 - 1.78	52.1	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	53.6	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	50.8	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05 - 1.43	51.5	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05 - 1.43	51.7	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88 - 1.20	49.0	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88 - 1.20	49.6	43 - 58
OCDF	M+2/M+4	0.92	0.76 - 1.02	99.2	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

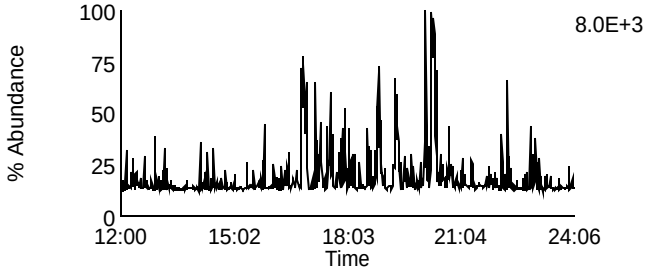
Sample Raw Data

Homologue Group: Tetras

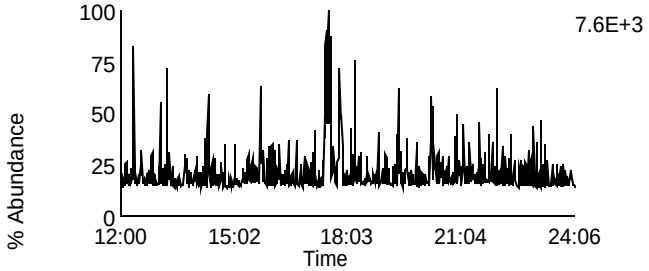
Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

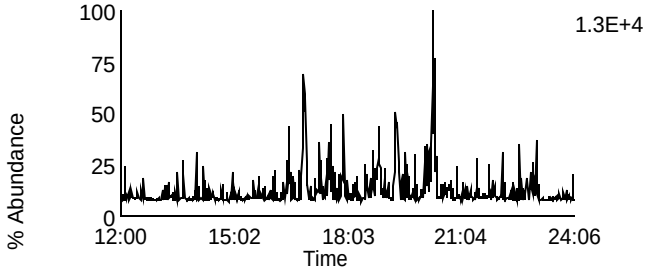
Data File: F140301B_05 G1 C1 - 303.9016
SAMP 10258392001 - BAL PASI-WI



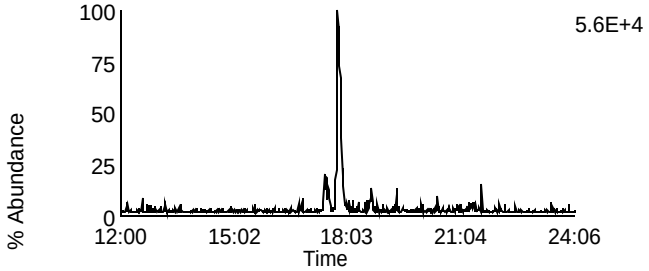
Data File: F140301B_05 G1 C7 - 319.8965
SAMP 10258392001 - BAL PASI-WI



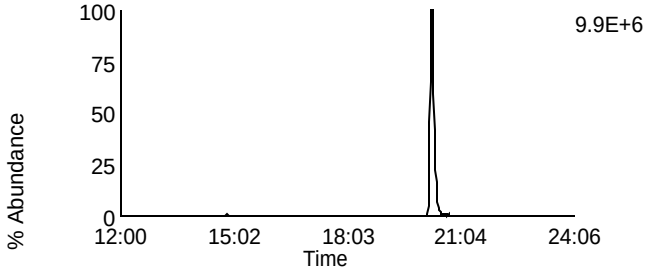
Data File: F140301B_05 G1 C2 - 305.8987
SAMP 10258392001 - BAL PASI-WI



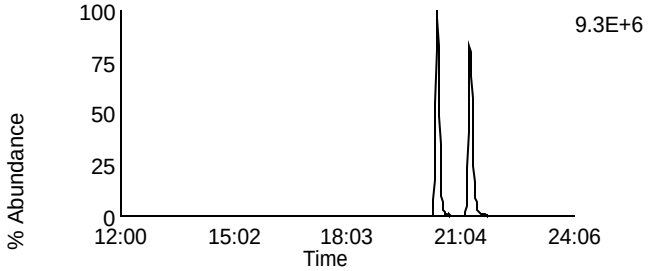
Data File: F140301B_05 G1 C8 - 321.8936
SAMP 10258392001 - BAL PASI-WI



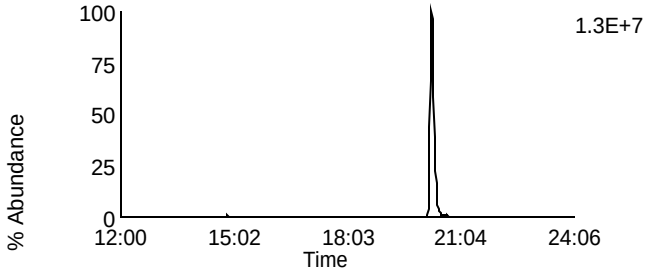
Data File: F140301B_05 G1 C3 - 315.9418
SAMP 10258392001 - BAL PASI-WI



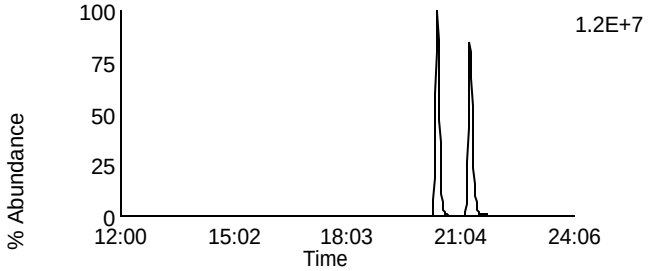
Data File: F140301B_05 G1 C10 - 331.9367
SAMP 10258392001 - BAL PASI-WI



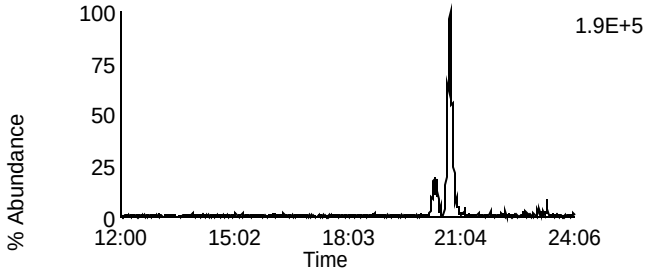
Data File: F140301B_05 G1 C4 - 317.9389
SAMP 10258392001 - BAL PASI-WI



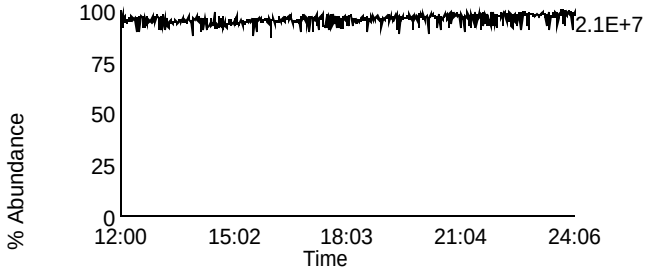
Data File: F140301B_05 G1 C11 - 333.9338
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G1 C14 - 375.8364
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G1 C5 - 318.9792
SAMP 10258392001 - BAL PASI-WI

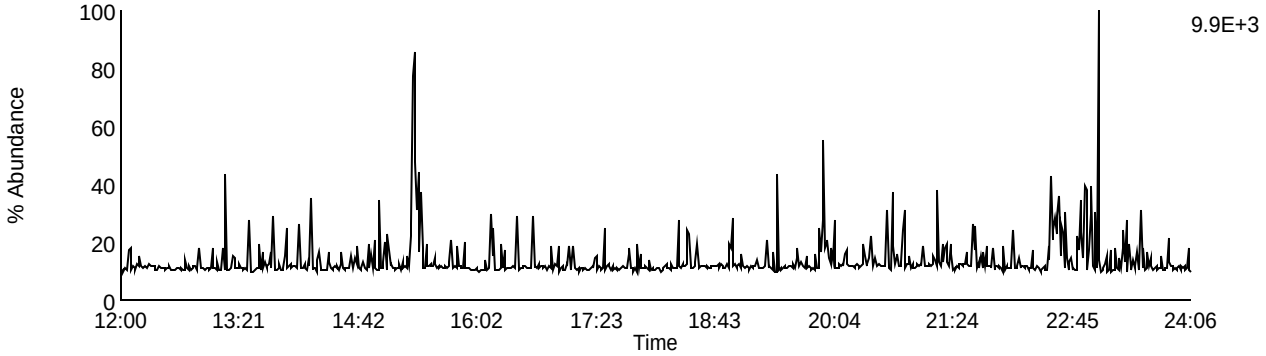


Homologue Group: Penta & Cleanup

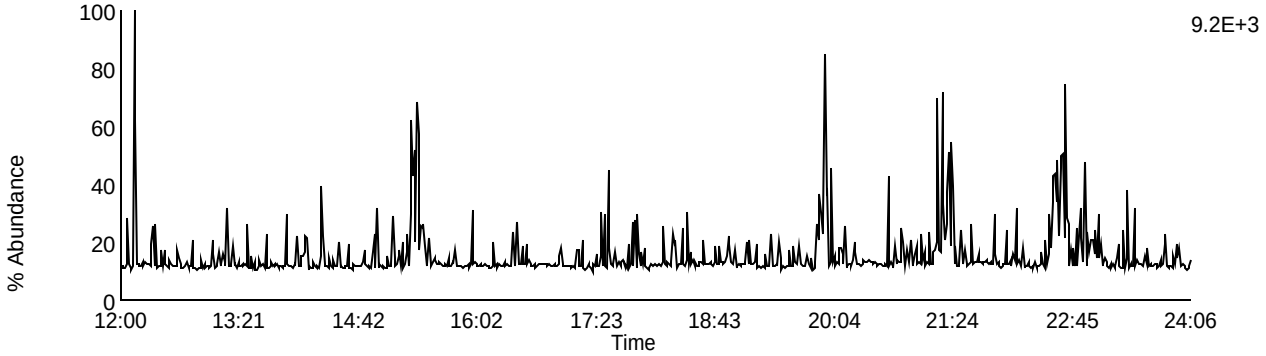
Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

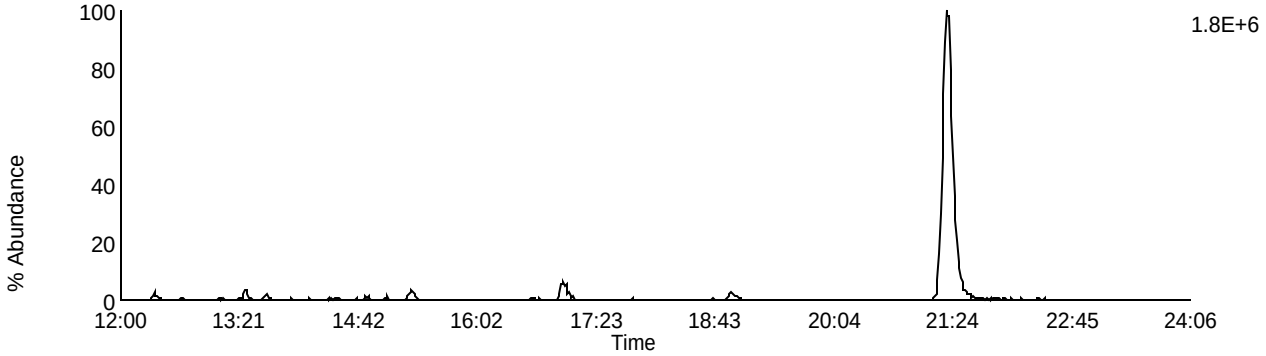
Data File: F140301B_05 G1 C12 - 339.8597
SAMP 10258392001 - BAL PASI-WI



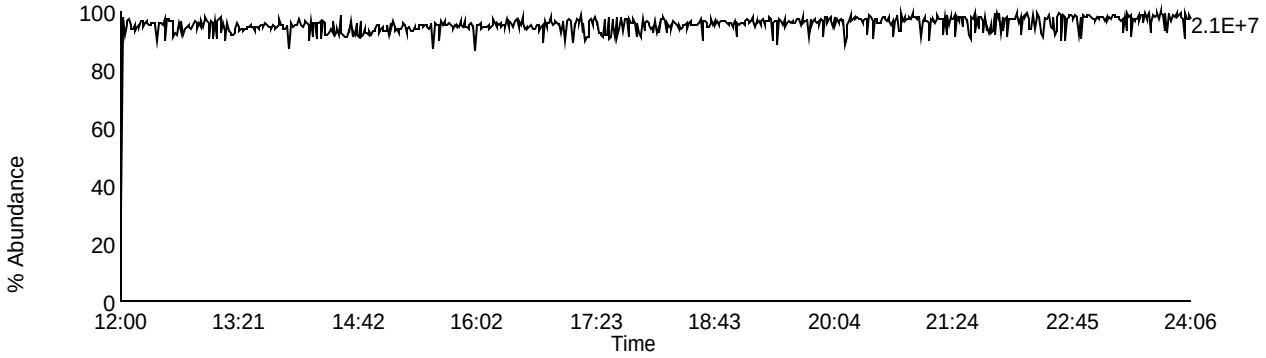
Data File: F140301B_05 G1 C13 - 341.8567
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G1 C9 - 327.8847
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G1 C5 - 318.9792
SAMP 10258392001 - BAL PASI-WI

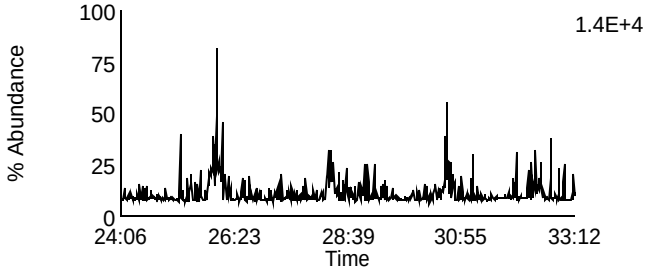


Homologue Group: Pentas

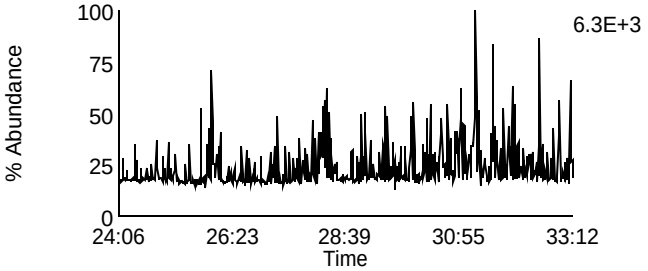
Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

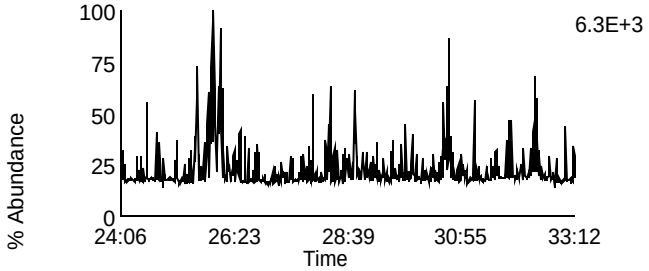
Data File: F140301B_05 G2 C1 - 339.8597
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G2 C4 - 353.8576
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G2 C2 - 341.8567
SAMP 10258392001 - BAL PASI-WI



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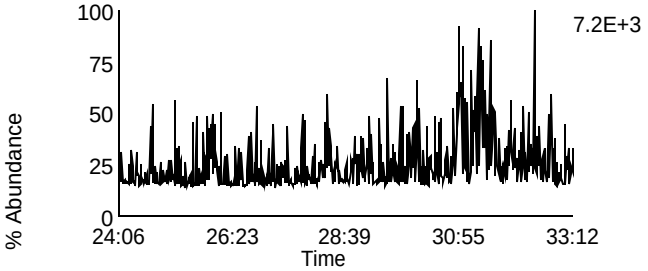
SAMP 10258392001 - BAL PASI-WI



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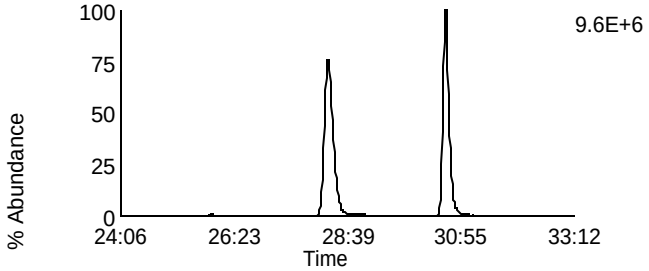
SAMP 10258392001 - BAL PASI-WI



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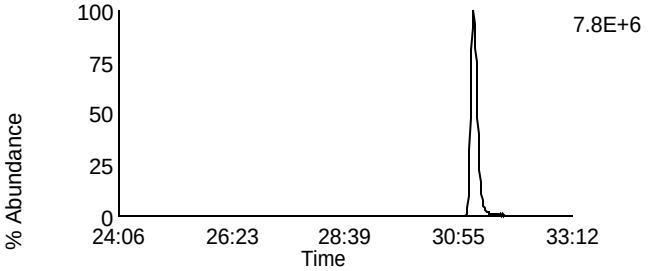
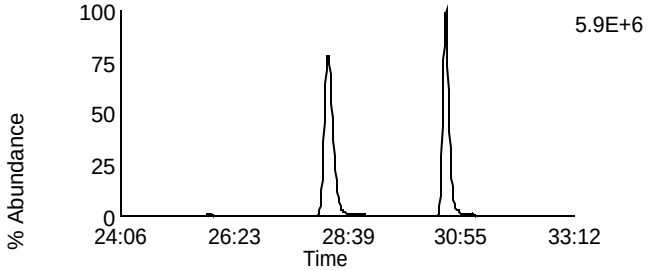
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G2 C5 - 353.8969
SAMP 10258392001 - BAL PASI-WI



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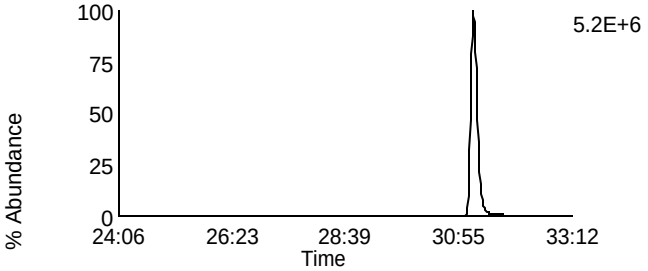
SAMP 10258392001 - BAL PASI-WI



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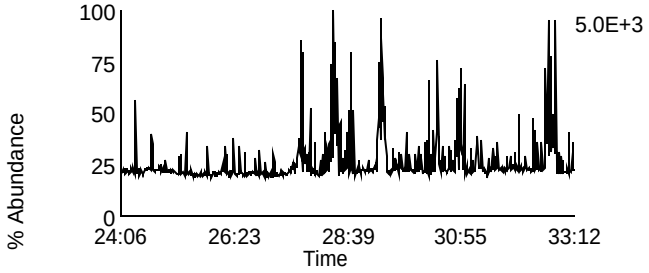
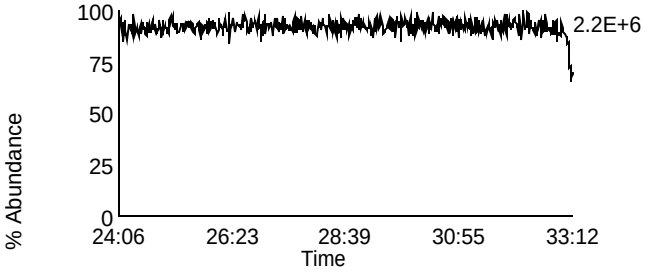
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G2 C6 - 354.9792
SAMP 10258392001 - BAL PASI-WI

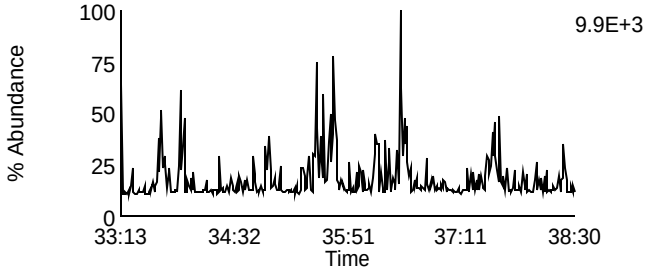


Homologue Group: Hexas

Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

Data File: F140301B_05 G3 C1 - 373.8207
SAMP 10258392001 - BAL PASI-WI



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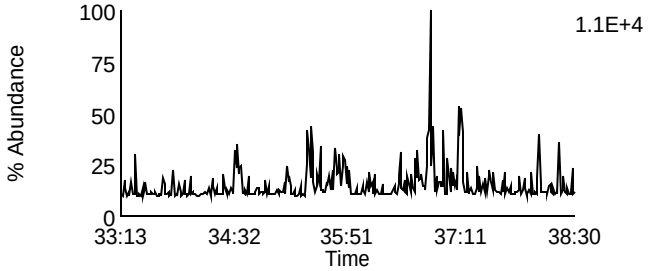
SAMP 10258392001 - BAL PASI-WI



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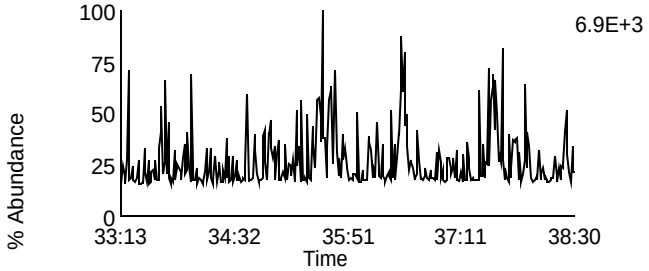
SAMP 10258392001 - BAL PASI-WI



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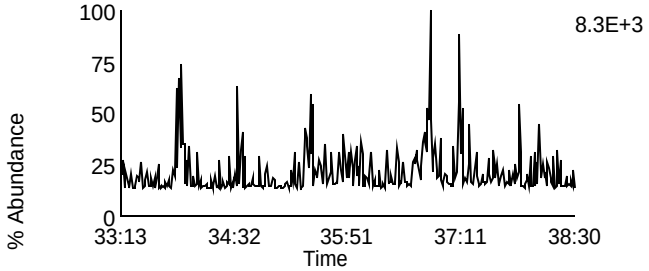

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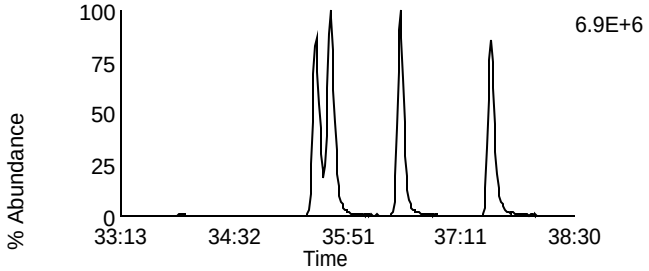
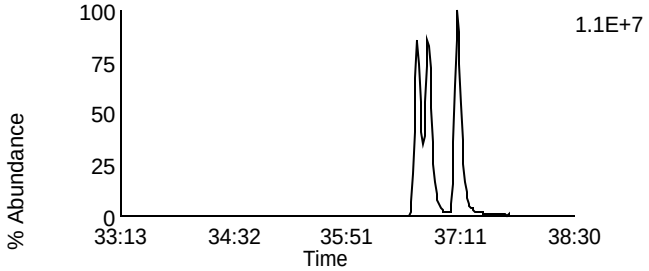
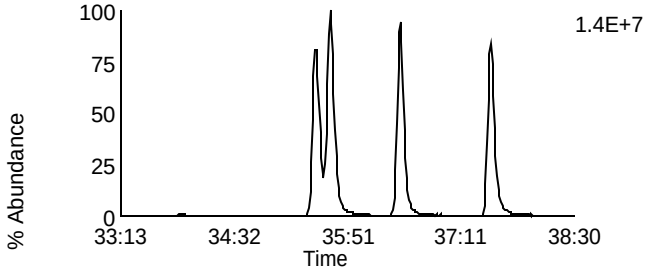
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G3 C9 - 401.8559
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G3 C6 - 385.861
SAMP 10258392001 - BAL PASI-WI



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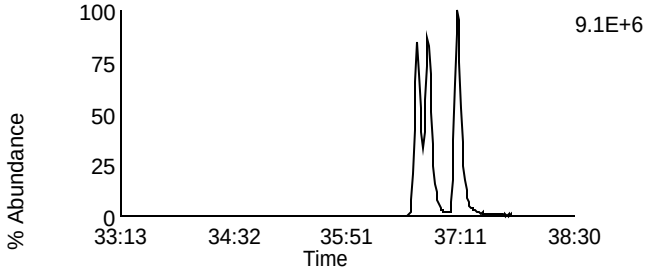

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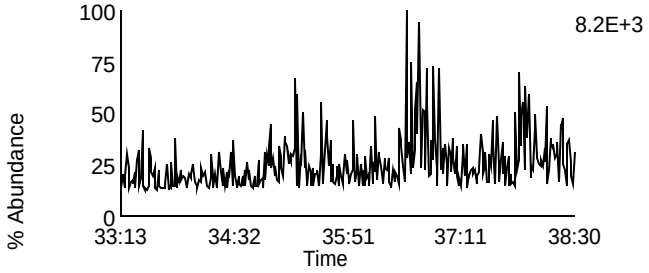
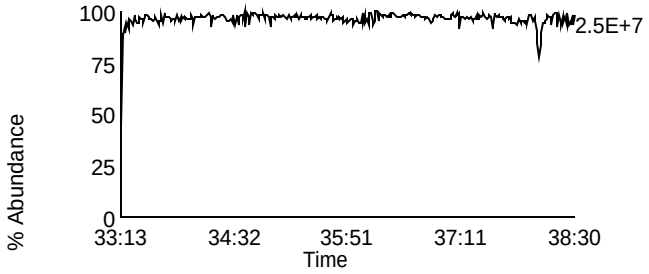
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G3 C3 - 380.976
SAMP 10258392001 - BAL PASI-WI

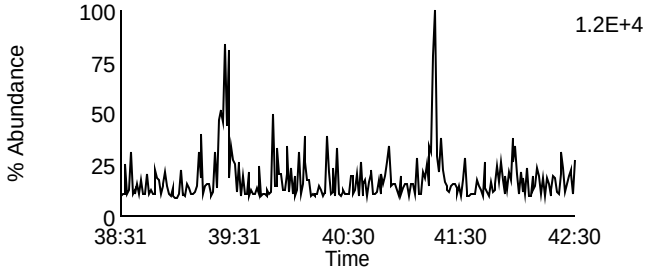


Homologue Group: Heptas

Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

Data File: F140301B_05 G4 C3 - 407.7818
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G4 C8 - 423.7767
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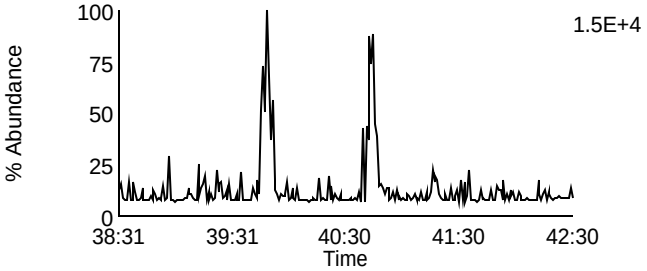

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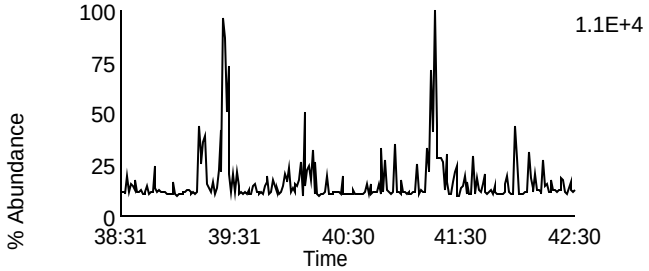
SAMP 10258392001 - BAL PASI-WI



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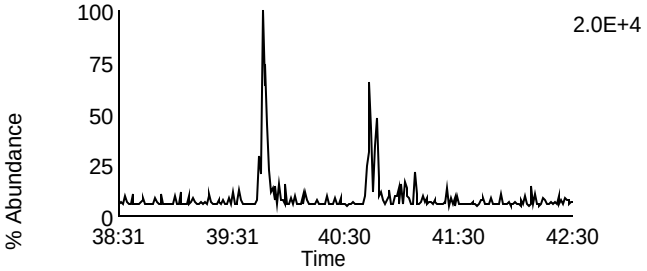
SAMP 10258392001 - BAL PASI-WI



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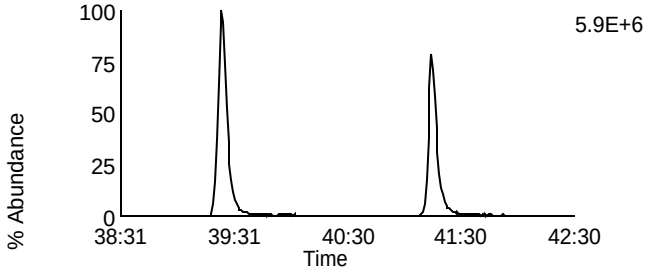
SAMP 10258392001 - BAL PASI-WI



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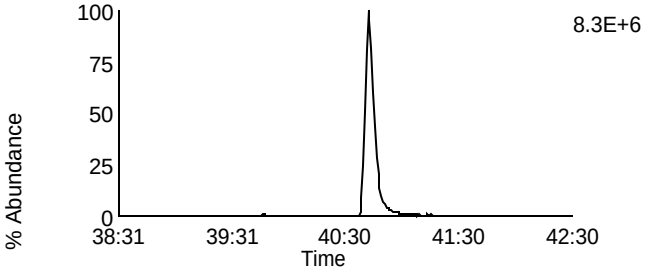
SAMP 10258392001 - BAL PASI-WI



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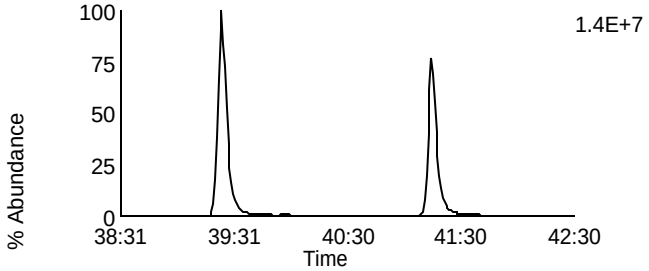
SAMP 10258392001 - BAL PASI-WI



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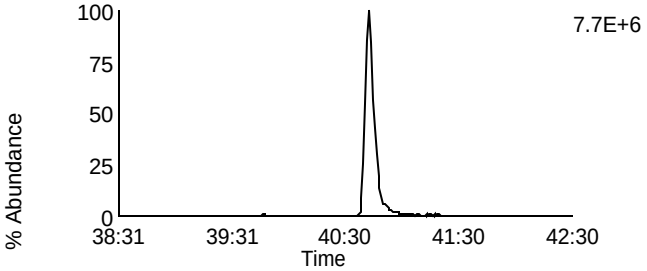
SAMP 10258392001 - BAL PASI-WI



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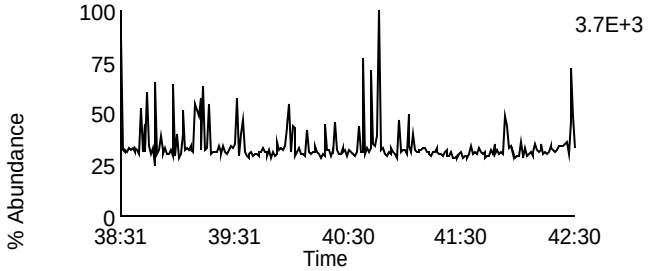
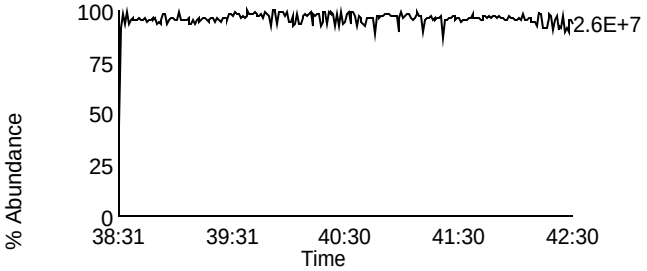
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G4 C1 - 380.976
SAMP 10258392001 - BAL PASI-WI

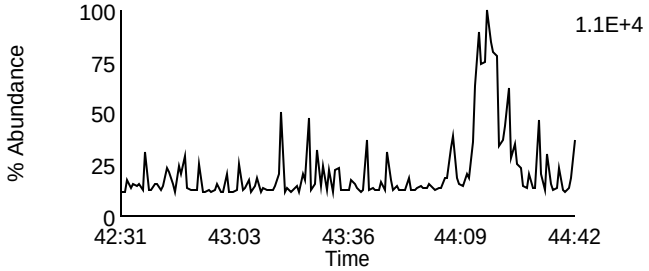


Homologue Group: Octas

Data File Name: F140301B_05
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392001 - BAL PASI-WI

Lab Sample ID: 10258392001
Client Sample ID: MAK101O
Instrument: 10MSHR05 (F)

Data File: F140301B_05 G5 C4 - 441.7428
SAMP 10258392001 - BAL PASI-WI



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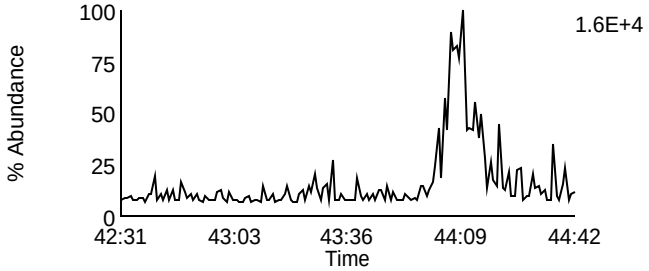
SAMP 10258392001 - BAL PASI-WI



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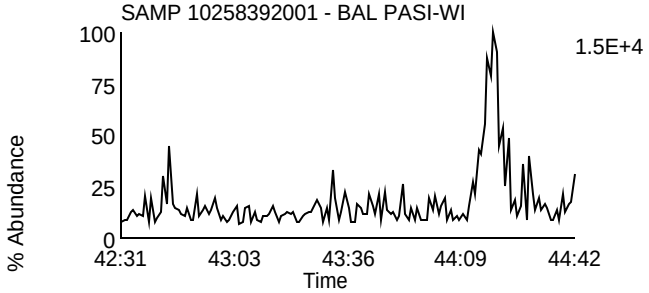
SAMP 10258392001 - BAL PASI-WI



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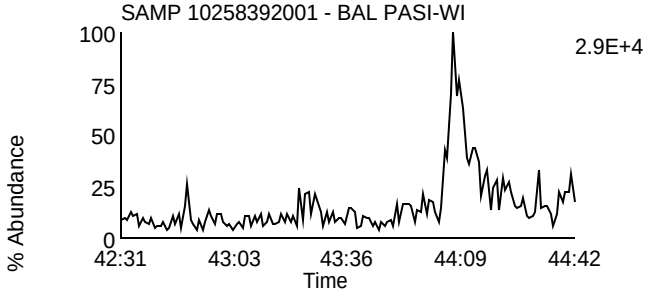
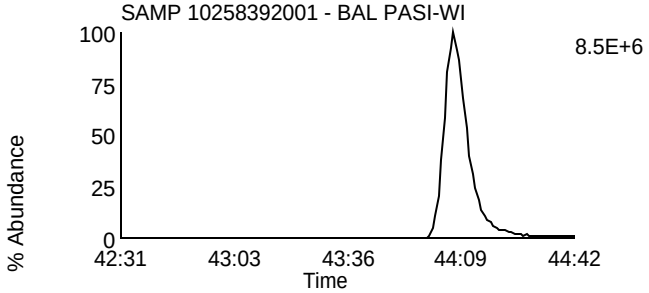
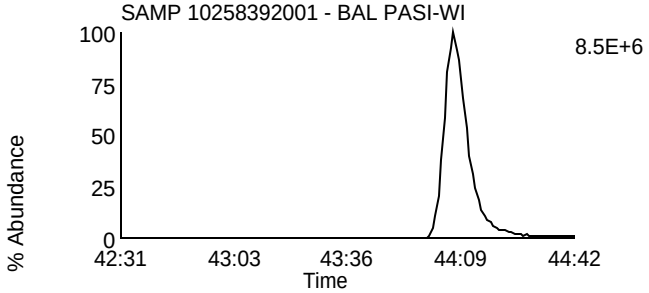
SAMP 10258392001 - BAL PASI-WI



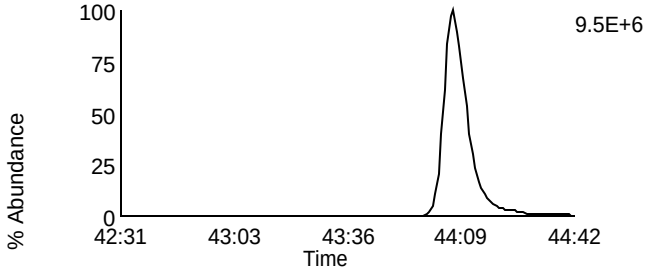
Data File: F140301B_05 G5 C11 - 469.7779
SAMP 10258392001 - BAL PASI-WI



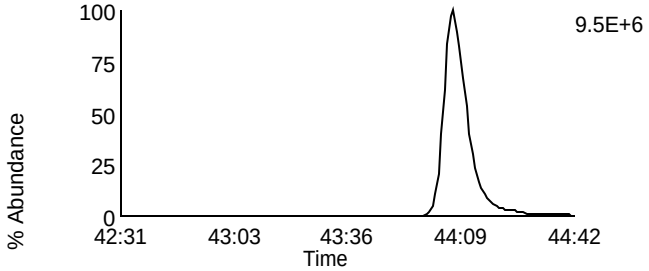
Data File: F140301B_05 G5 C11 - 469.7779
SAMP 10258392001 - BAL PASI-WI



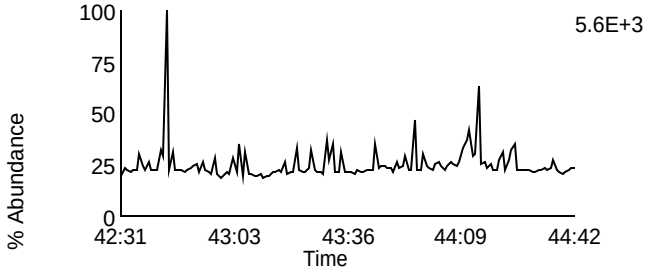
Data File: F140301B_05 G5 C12 - 471.7749
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G5 C12 - 471.7749
SAMP 10258392001 - BAL PASI-WI



Data File: F140301B_05 G5 C13 - 513.6775
SAMP 10258392001 - BAL PASI-WI



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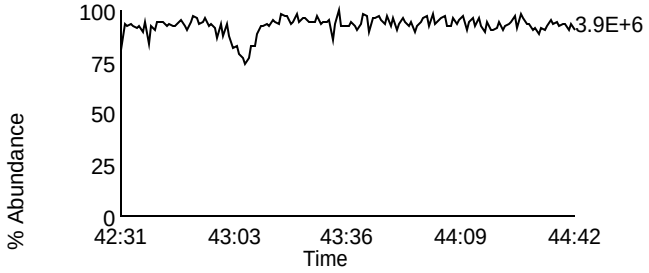
SAMP 10258392001 - BAL PASI-WI

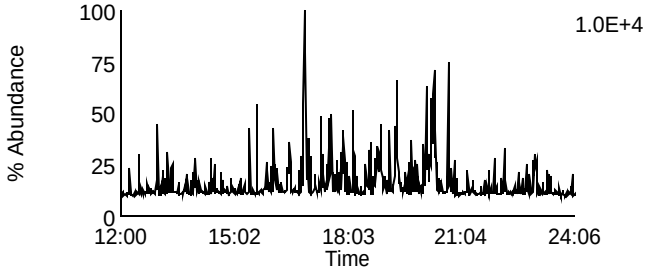


Homologue Group: Tetras

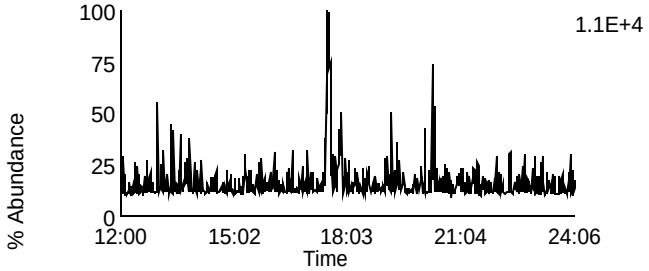
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

Data File: F140301B_06 G1 C1 - 303.9016
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G1 C7 - 319.8965
SAMP 10258392002 - BAL PASI-WI



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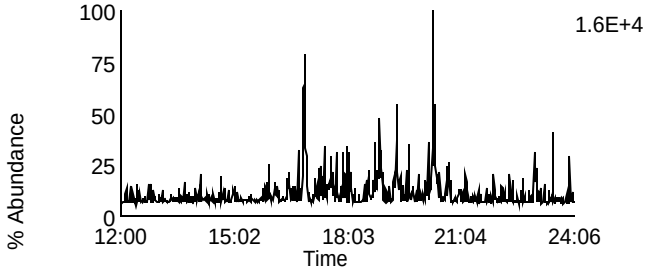
SAMP 10258392002 - BAL PASI-WI



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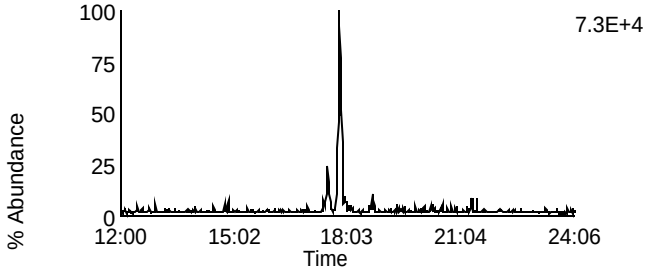
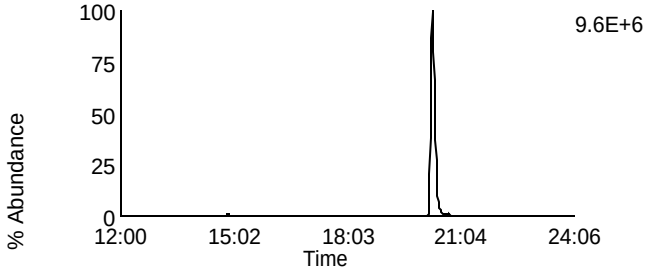
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G1 C3 - 315.9418
SAMP 10258392002 - BAL PASI-WI



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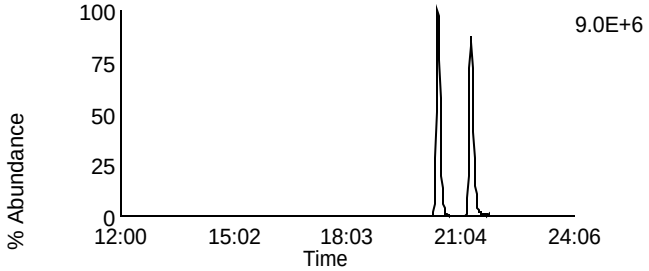
SAMP 10258392002 - BAL PASI-WI



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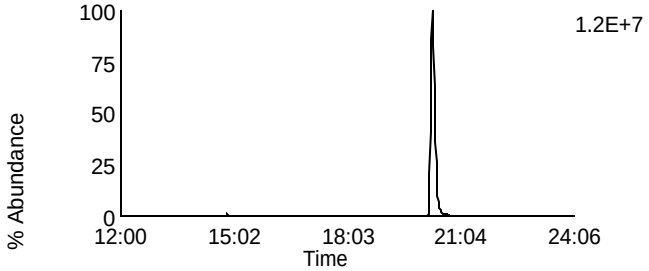
SAMP 10258392002 - BAL PASI-WI



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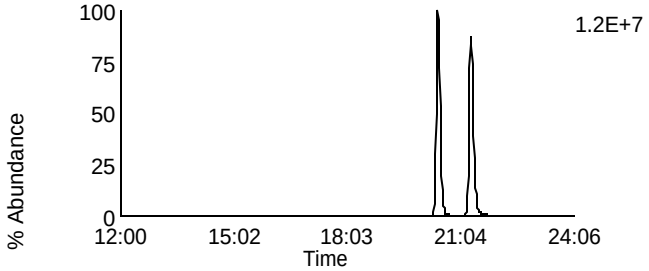
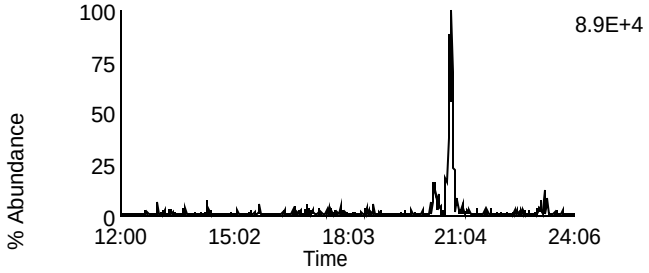
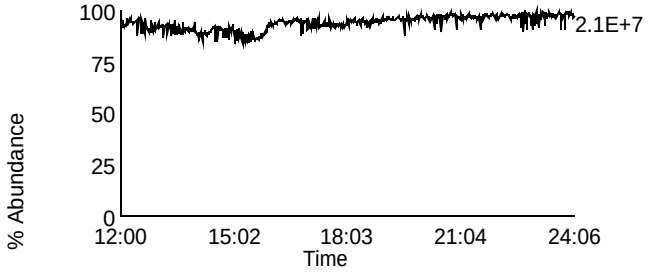


Data File: F140301B_06 G1 C14 - 375.8364
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G1 C5 - 318.9792
SAMP 10258392002 - BAL PASI-WI

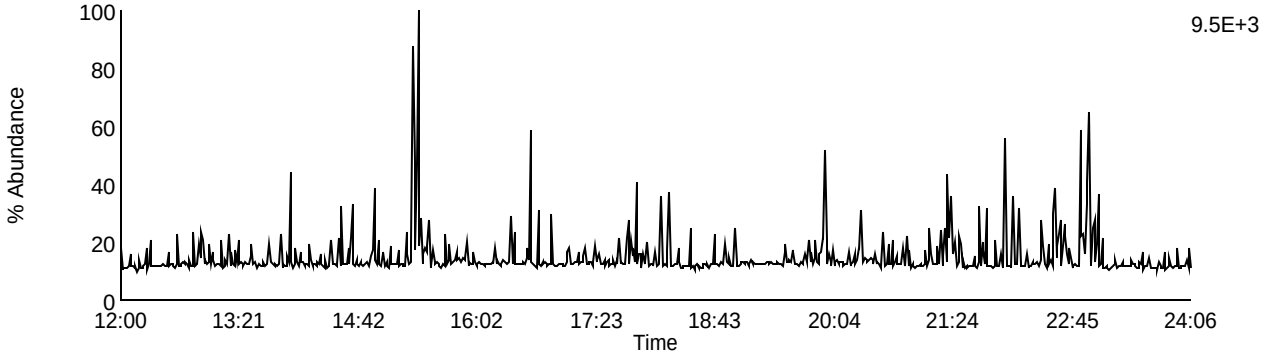


Homologue Group: Penta & Cleanup

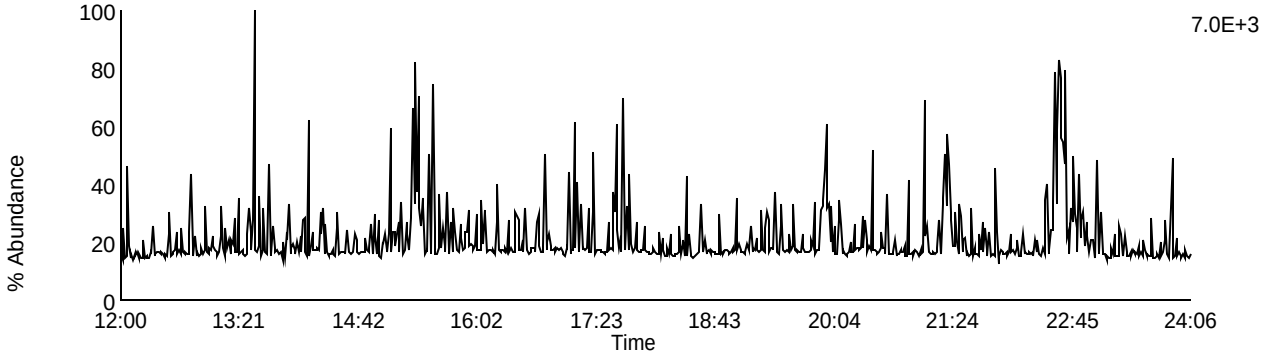
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

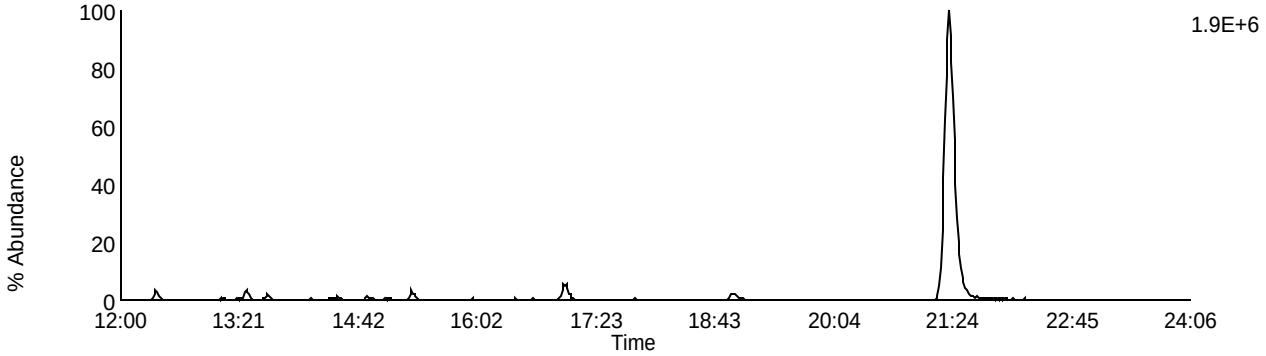
Data File: F140301B_06 G1 C12 - 339.8597
SAMP 10258392002 - BAL PASI-WI



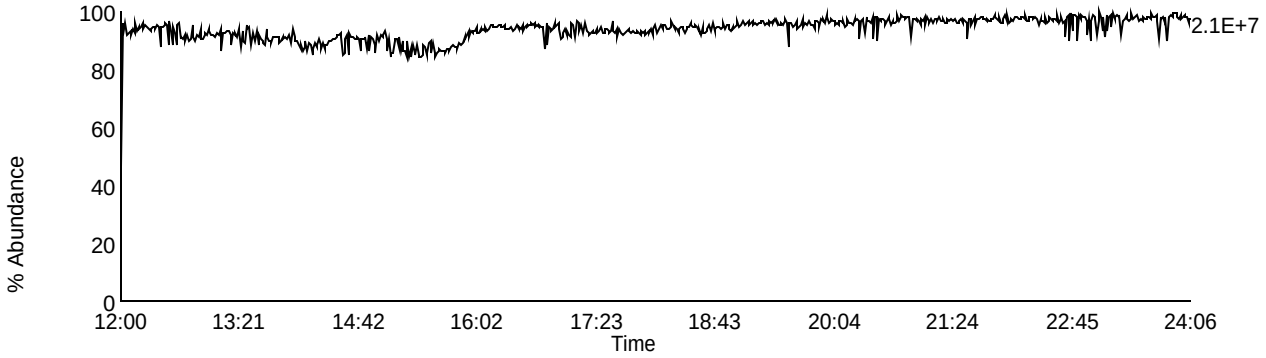
Data File: F140301B_06 G1 C13 - 341.8567
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G1 C9 - 327.8847
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G1 C5 - 318.9792
SAMP 10258392002 - BAL PASI-WI

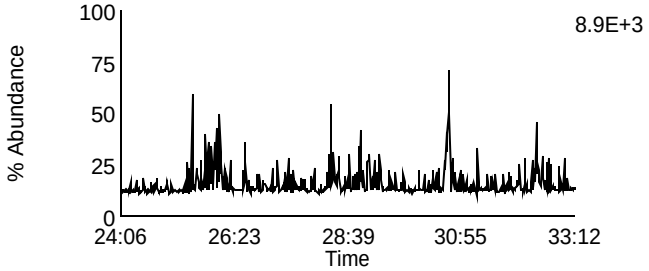


Homologue Group: Pentas

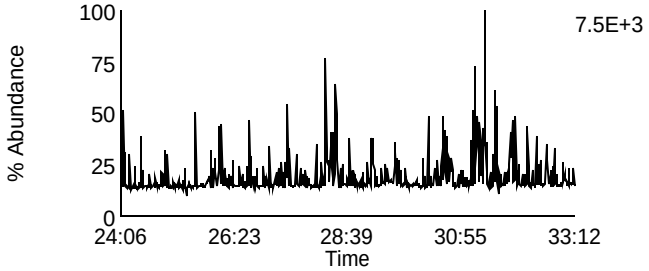
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

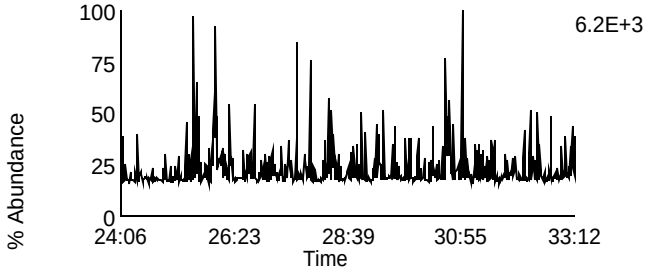
Data File: F140301B_06 G2 C1 - 339.8597
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G2 C4 - 353.8576
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G2 C2 - 341.8567
SAMP 10258392002 - BAL PASI-WI



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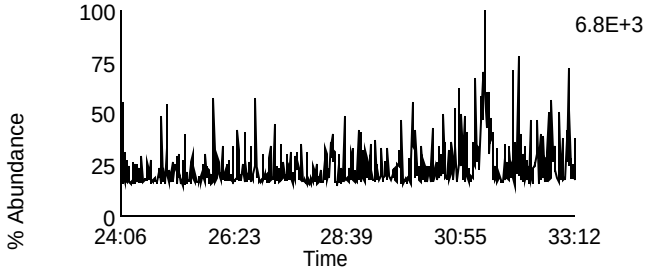
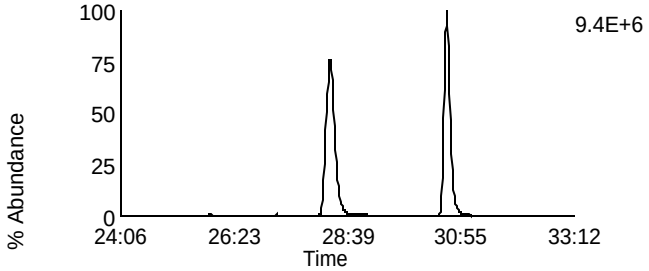
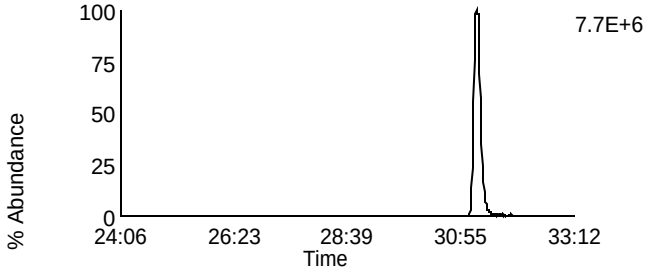
SAMP 10258392002 - BAL PASI-WI



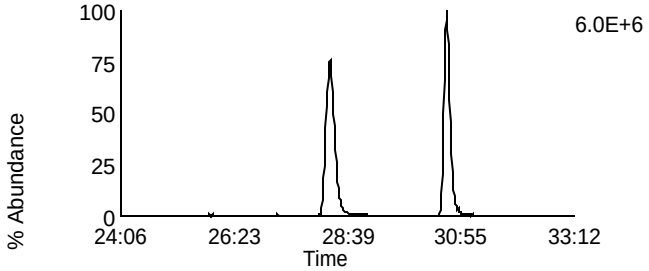
Data File: F140301B_06 G2 C3 - 351.8999
SAMP 10258392002 - BAL PASI-WI



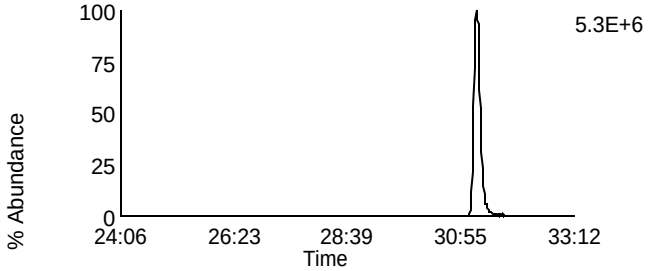
Data File: F140301B_06 G2 C10 - 367.8948
SAMP 10258392002 - BAL PASI-WI



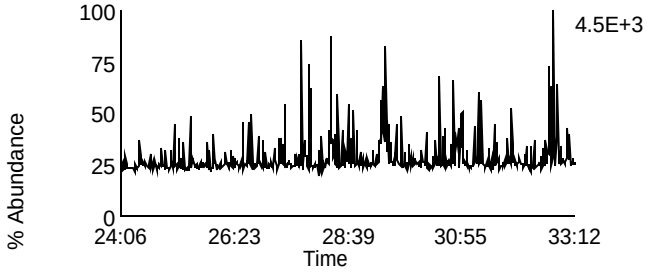
Data File: F140301B_06 G2 C5 - 353.8969
SAMP 10258392002 - BAL PASI-WI



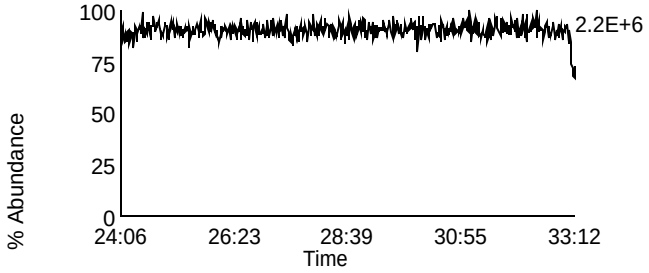
Data File: F140301B_06 G2 C11 - 369.8918
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G2 C12 - 409.7974
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G2 C6 - 354.9792
SAMP 10258392002 - BAL PASI-WI

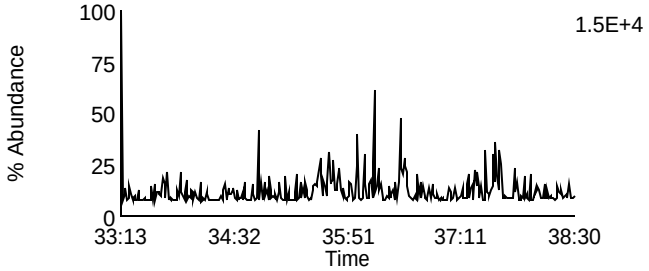


Homologue Group: Hexas

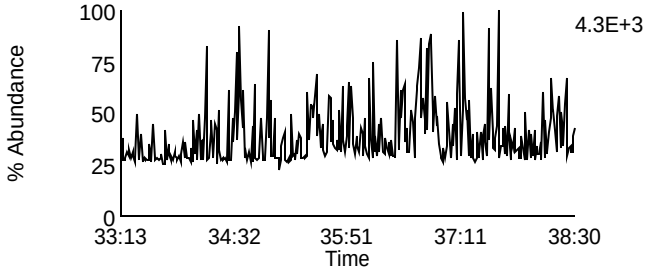
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

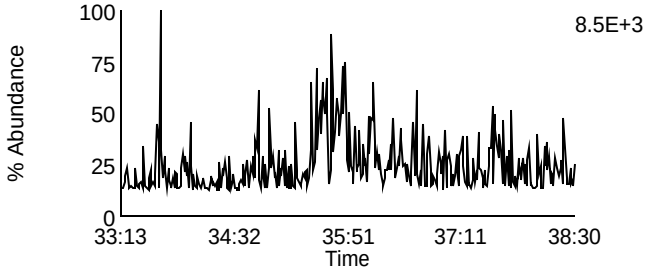
Data File: F140301B_06 G3 C1 - 373.8207
SAMP 10258392002 - BAL PASI-WI



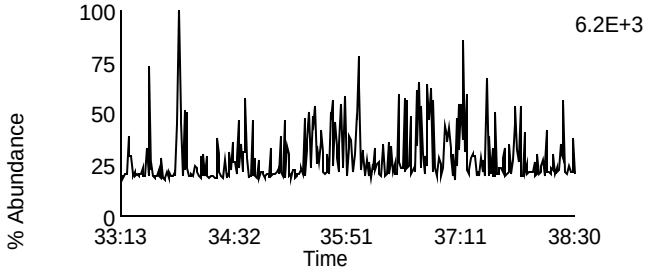
Data File: F140301B_06 G3 C7 - 389.8156
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C2 - 375.8178
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C8 - 391.8127
SAMP 10258392002 - BAL PASI-WI



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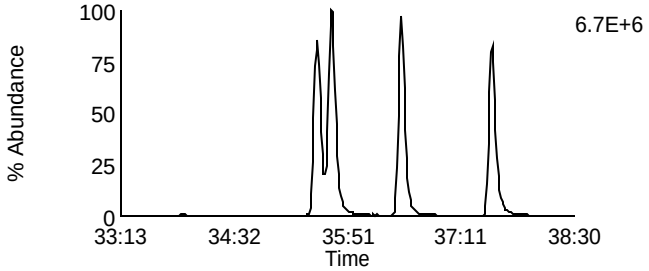
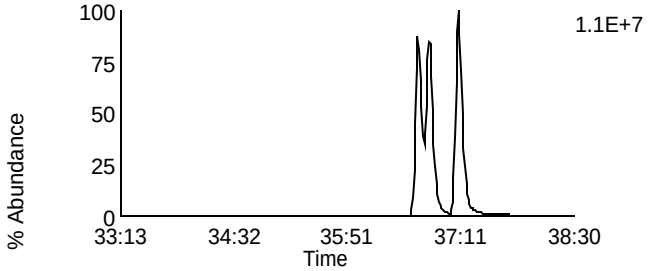
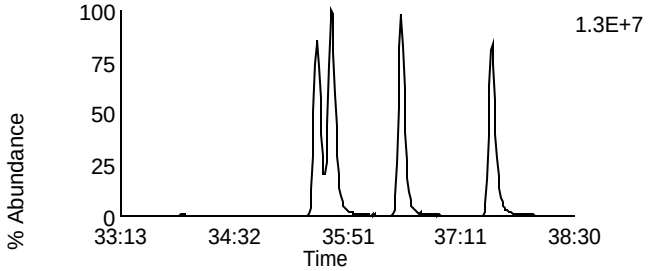
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C9 - 401.8559
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C6 - 385.861
SAMP 10258392002 - BAL PASI-WI



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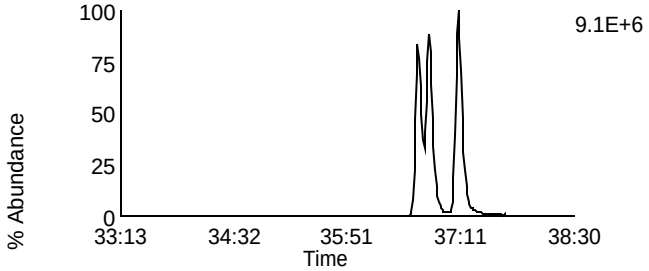
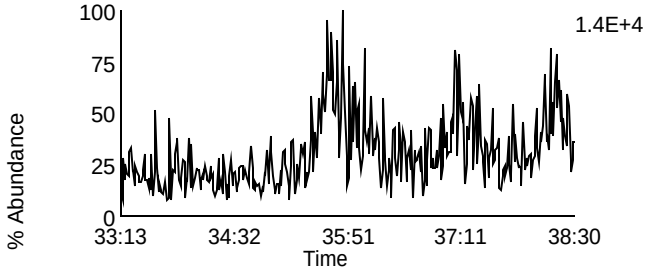
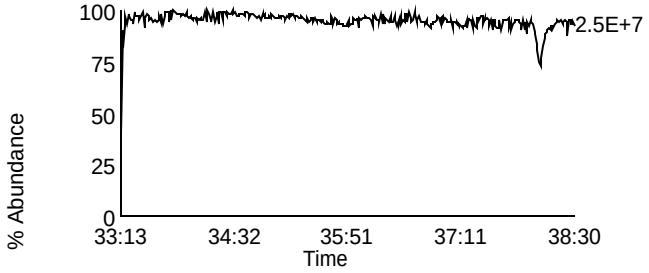
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C11 - 445.7555
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G3 C3 - 380.976
SAMP 10258392002 - BAL PASI-WI

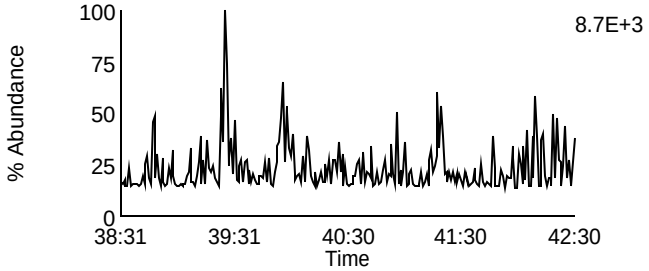


Homologue Group: Heptas

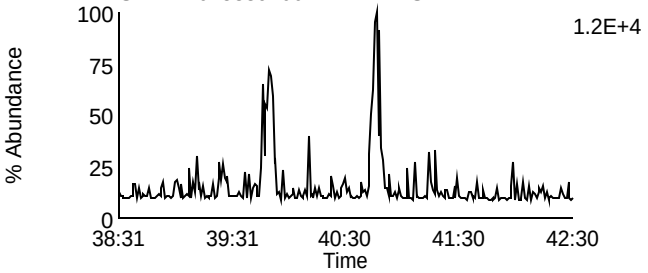
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

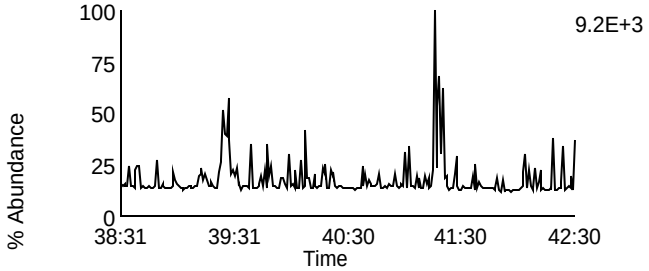
Data File: F140301B_06 G4 C3 - 407.7818
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G4 C8 - 423.7767
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G4 C4 - 409.7788
SAMP 10258392002 - BAL PASI-WI



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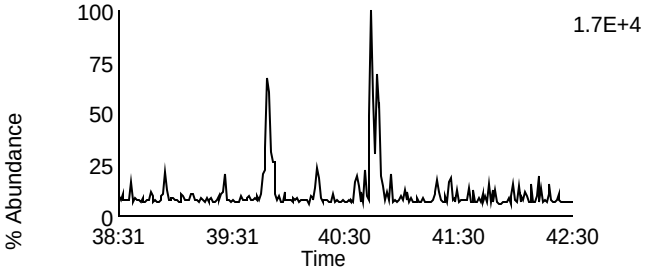
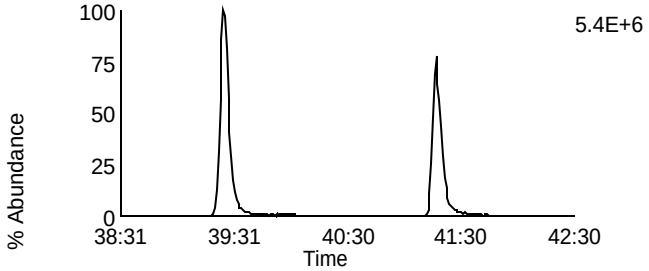
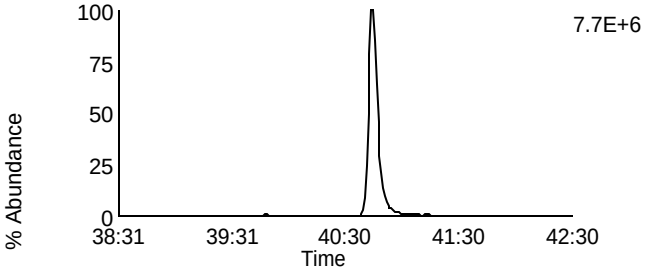
SAMP 10258392002 - BAL PASI-WI



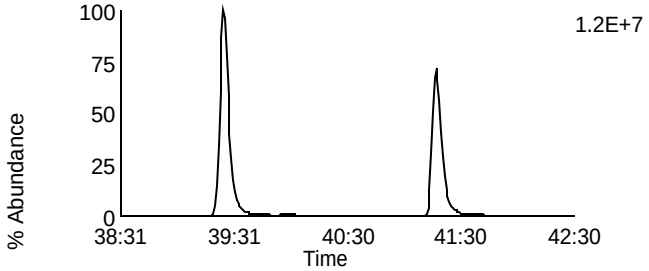
Data File: F140301B_06 G4 C6 - 417.825
SAMP 10258392002 - BAL PASI-WI



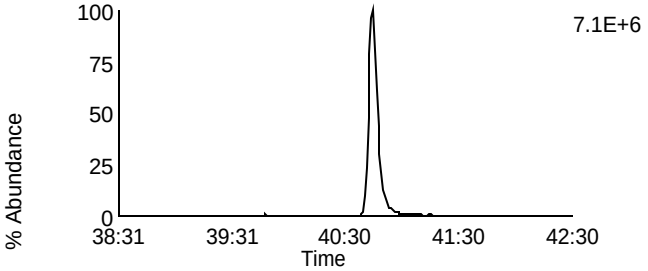
Data File: F140301B_06 G4 C11 - 435.8169
SAMP 10258392002 - BAL PASI-WI



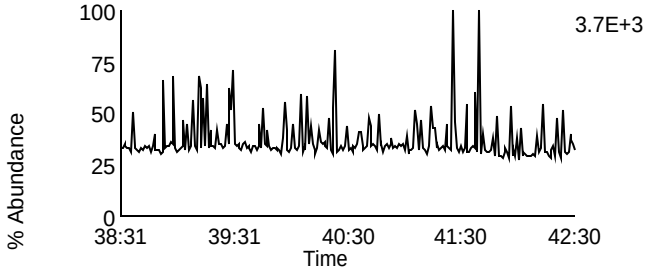
Data File: F140301B_06 G4 C7 - 419.822
SAMP 10258392002 - BAL PASI-WI



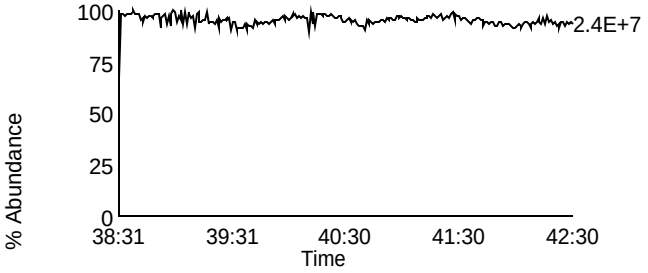
Data File: F140301B_06 G4 C12 - 437.814
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G4 C13 - 479.7165
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G4 C1 - 380.976
SAMP 10258392002 - BAL PASI-WI

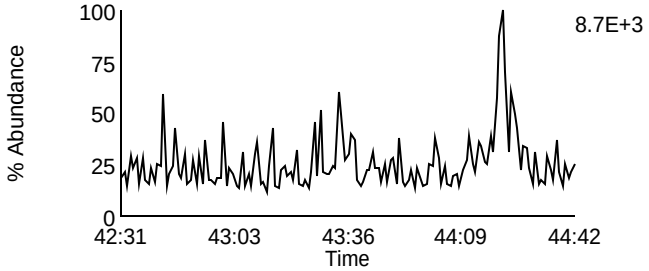


Homologue Group: Octas

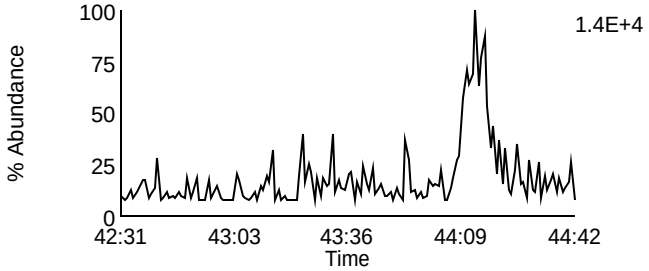
Data File Name: F140301B_06
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392002 - BAL PASI-WI

Lab Sample ID: 10258392002
Client Sample ID: MAK102O
Instrument: 10MSHR05 (F)

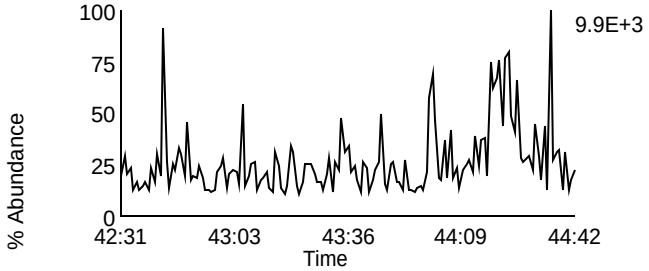
Data File: F140301B_06 G5 C4 - 441.7428
SAMP 10258392002 - BAL PASI-WI



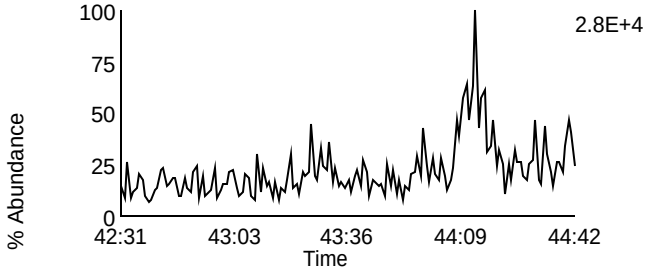
Data File: F140301B_06 G5 C8 - 457.7377
SAMP 10258392002 - BAL PASI-WI



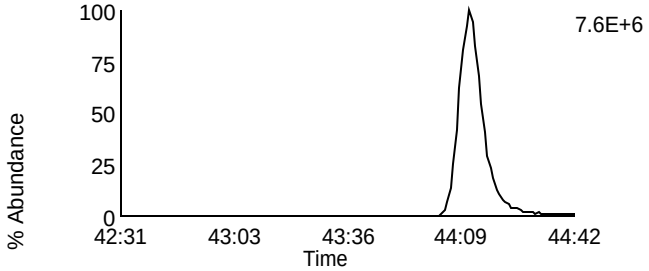
Data File: F140301B_06 G5 C5 - 443.7398
SAMP 10258392002 - BAL PASI-WI



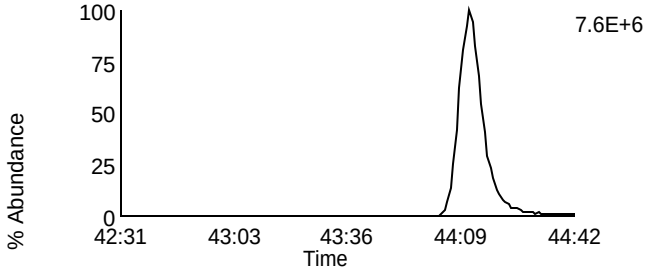
Data File: F140301B_06 G5 C9 - 459.7347
SAMP 10258392002 - BAL PASI-WI



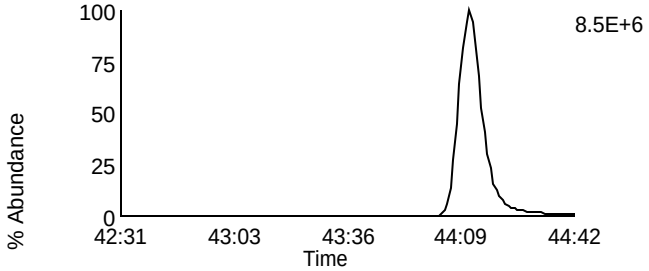
Data File: F140301B_06 G5 C11 - 469.7779
SAMP 10258392002 - BAL PASI-WI



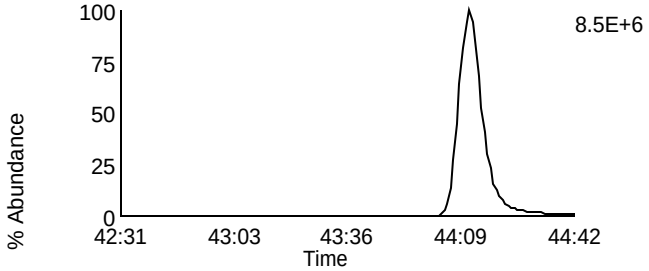
Data File: F140301B_06 G5 C11 - 469.7779
SAMP 10258392002 - BAL PASI-WI



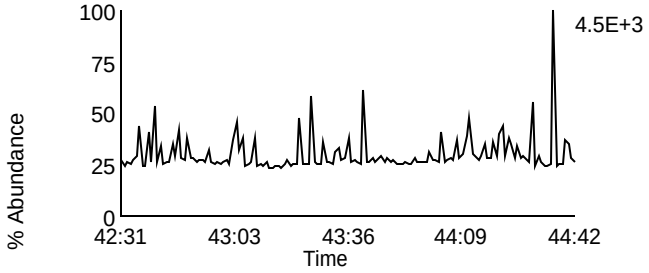
Data File: F140301B_06 G5 C12 - 471.7749
SAMP 10258392002 - BAL PASI-WI



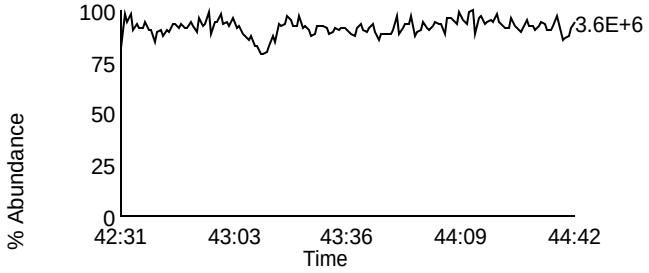
Data File: F140301B_06 G5 C12 - 471.7749
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G5 C13 - 513.6775
SAMP 10258392002 - BAL PASI-WI



Data File: F140301B_06 G5 C2 - 430.9728
SAMP 10258392002 - BAL PASI-WI

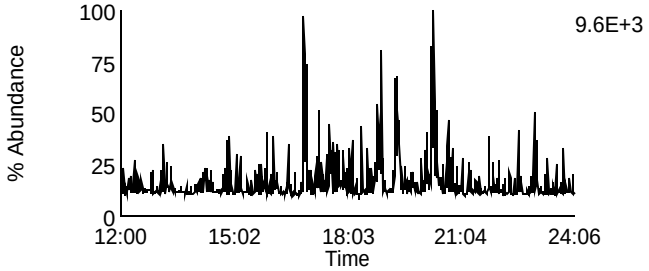


Homologue Group: Tetras

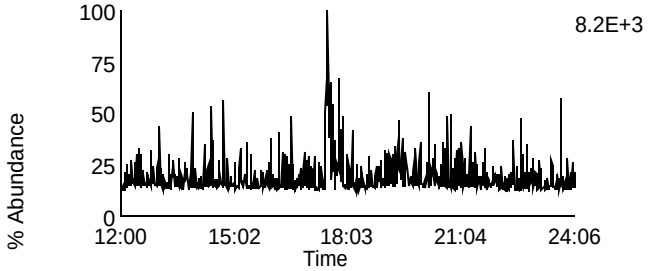
Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

Data File: F140301B_07 G1 C1 - 303.9016
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G1 C7 - 319.8965
SAMP 10258392003 - BAL PASI-WI



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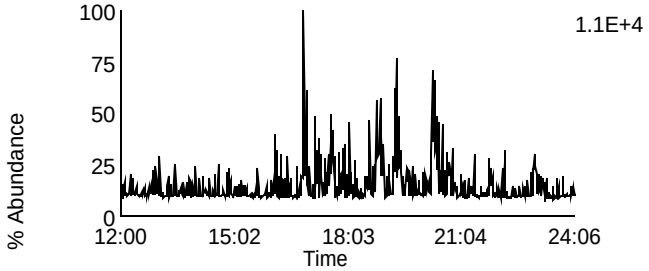
SAMP 10258392003 - BAL PASI-WI



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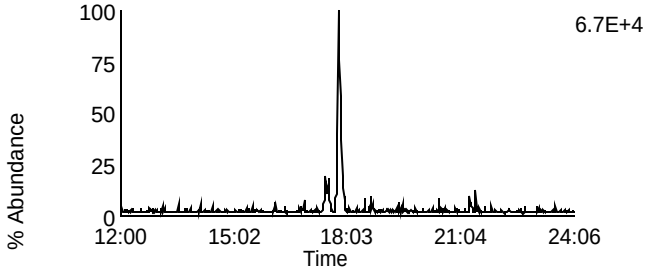
SAMP 10258392003 - BAL PASI-WI



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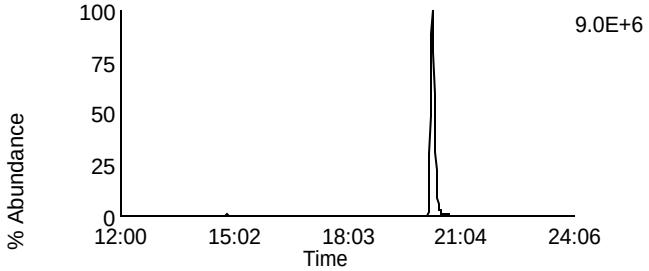
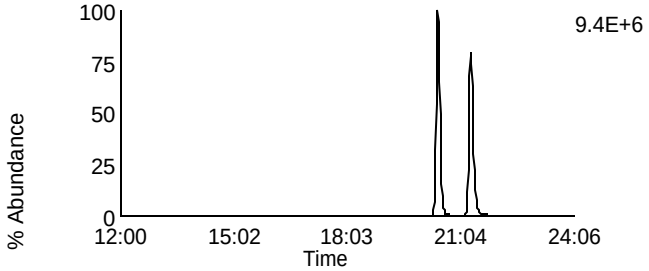
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G1 C10 - 331.9367
SAMP 10258392003 - BAL PASI-WI



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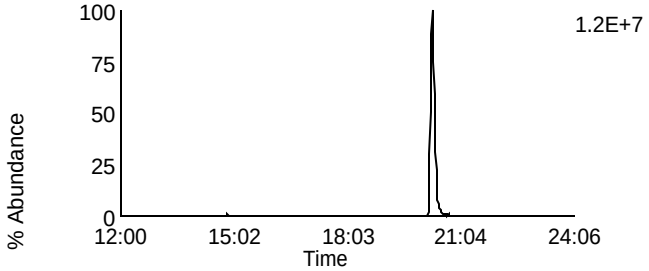
SAMP 10258392003 - BAL PASI-WI



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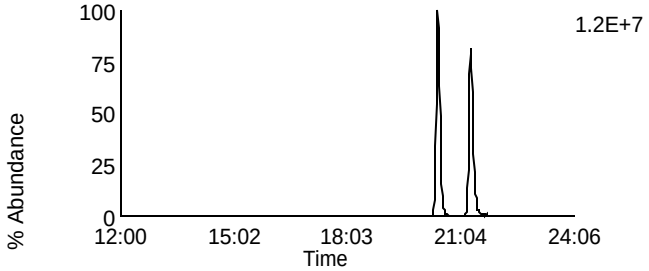
SAMP 10258392003 - BAL PASI-WI



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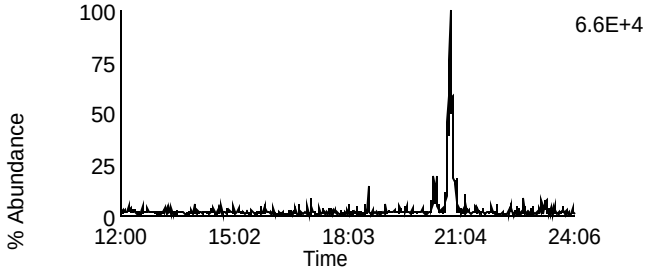
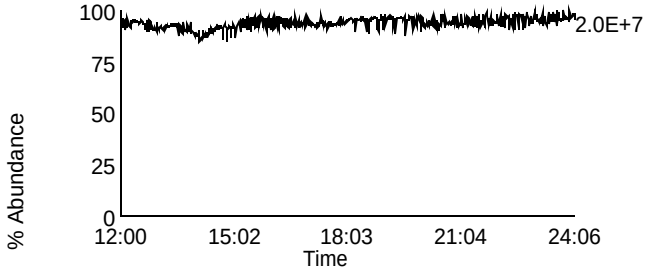
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G1 C5 - 318.9792
SAMP 10258392003 - BAL PASI-WI

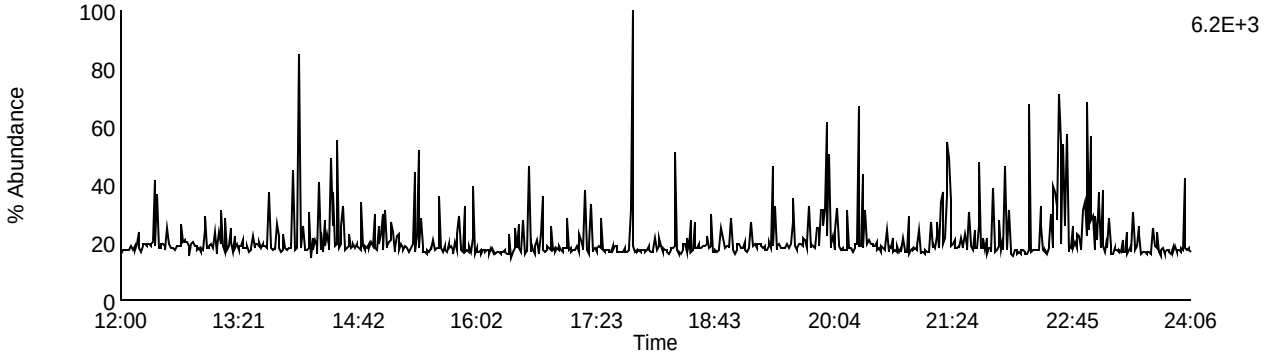


Homologue Group: Penta & Cleanup

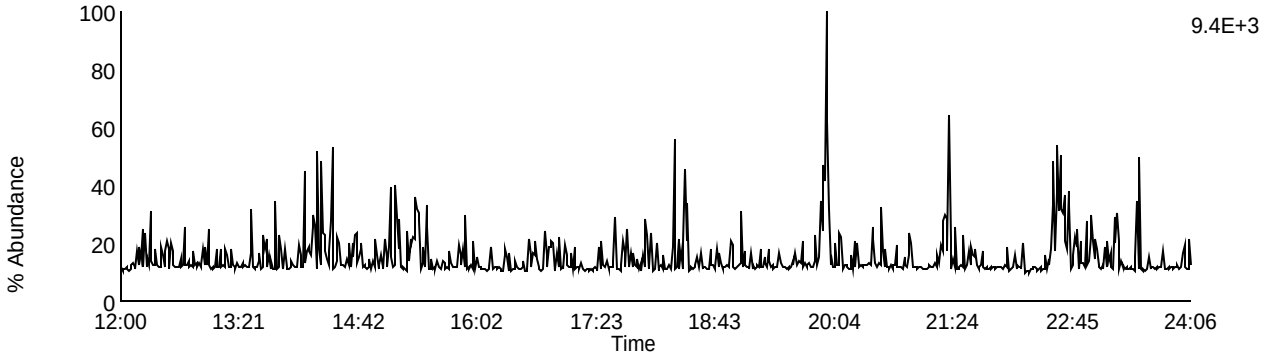
Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

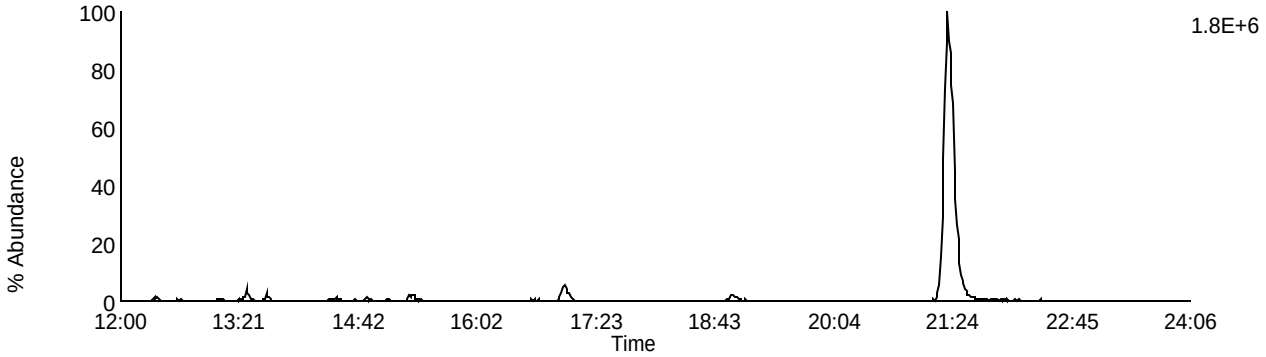
Data File: F140301B_07 G1 C12 - 339.8597
SAMP 10258392003 - BAL PASI-WI



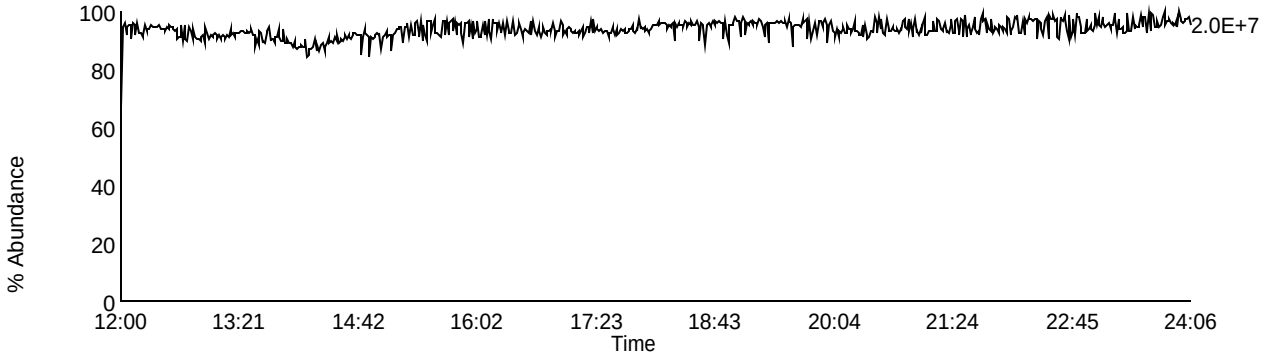
Data File: F140301B_07 G1 C13 - 341.8567
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G1 C9 - 327.8847
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G1 C5 - 318.9792
SAMP 10258392003 - BAL PASI-WI

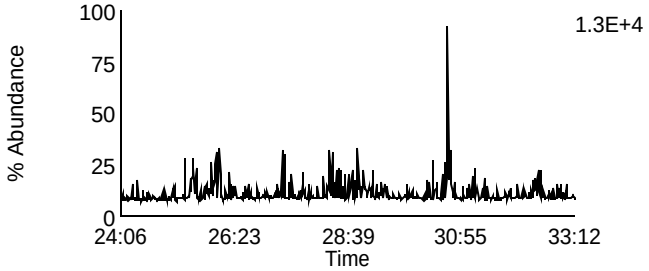


Homologue Group: Pentas

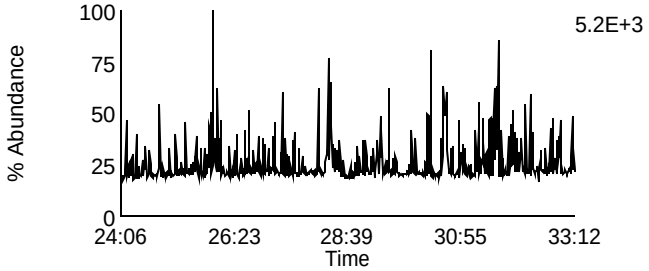
Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

Data File: F140301B_07 G2 C1 - 339.8597
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C4 - 353.8576
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C2 - 341.8567
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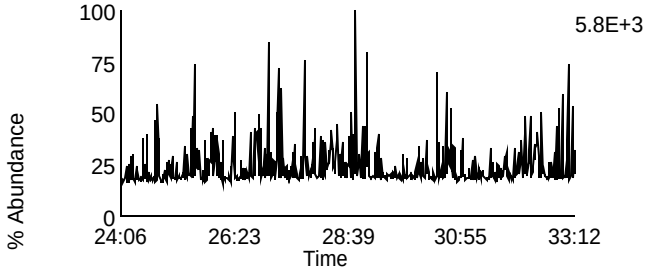
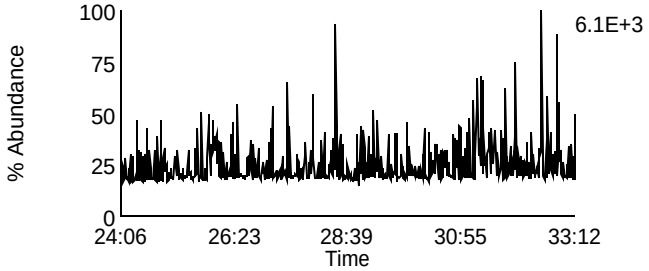
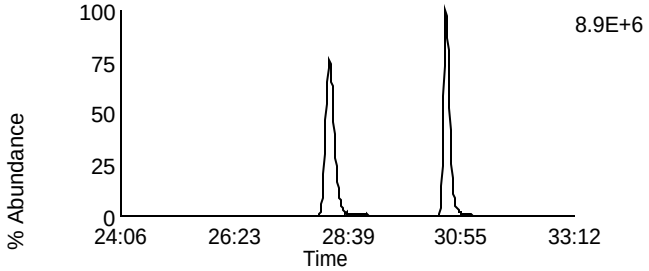


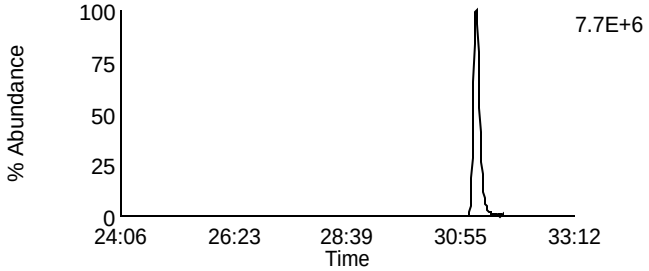
Data File: F140301B_07 G2 C8 - 355.8546
SAMP 10258392003 - BAL PASI-WI



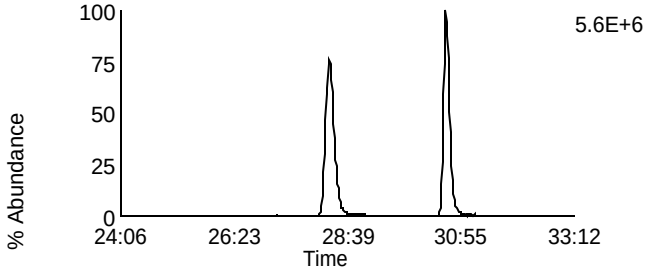
Data File: F140301B_07 G2 C3 - 351.8999
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C10 - 367.8948
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C5 - 353.8969
SAMP 10258392003 - BAL PASI-WI



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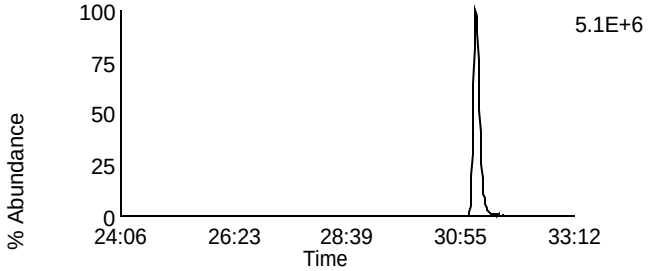
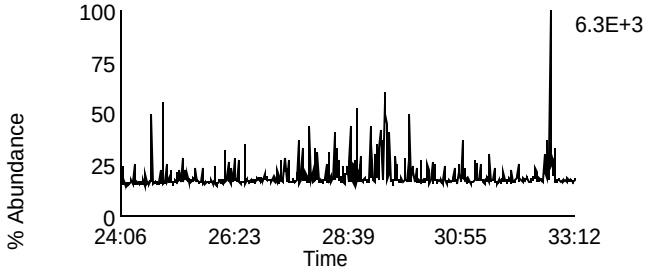
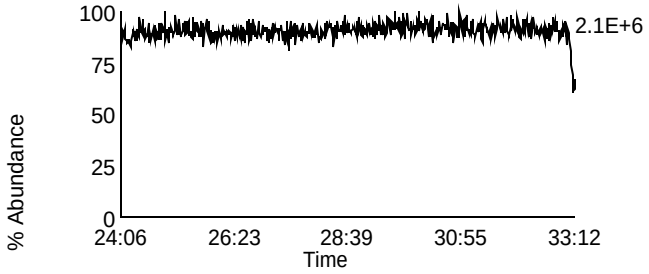
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C12 - 409.7974
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G2 C6 - 354.9792
SAMP 10258392003 - BAL PASI-WI

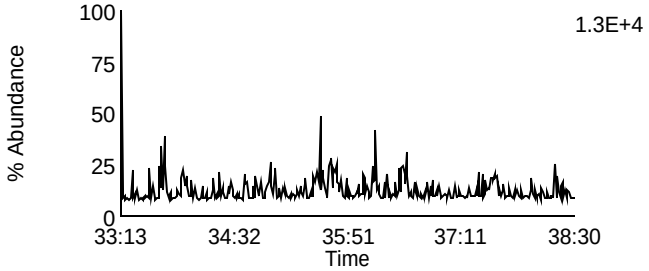


Homologue Group: Hexas

Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

Data File: F140301B_07 G3 C1 - 373.8207
SAMP 10258392003 - BAL PASI-WI



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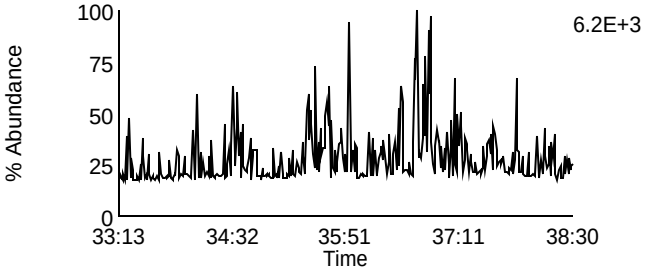
SAMP 10258392003 - BAL PASI-WI



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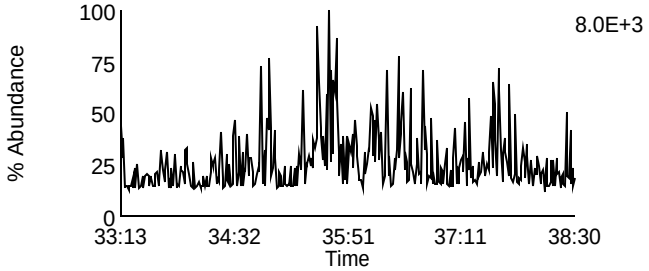
SAMP 10258392003 - BAL PASI-WI



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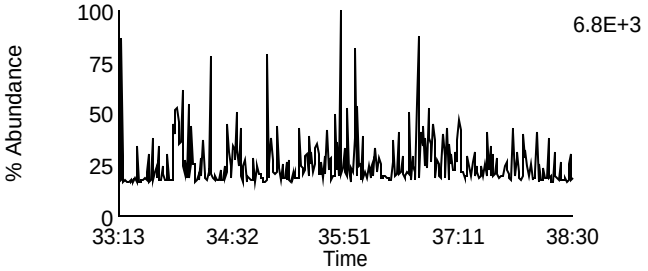
SAMP 10258392003 - BAL PASI-WI



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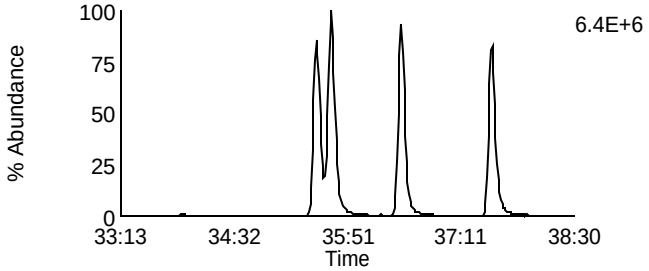
SAMP 10258392003 - BAL PASI-WI



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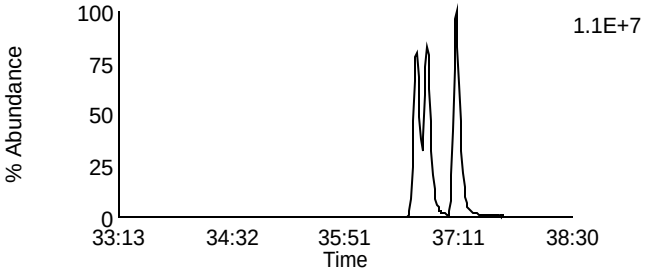
SAMP 10258392003 - BAL PASI-WI



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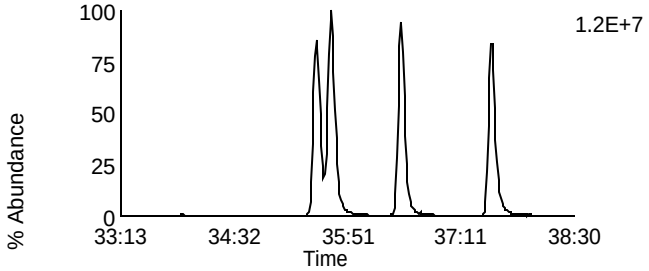
SAMP 10258392003 - BAL PASI-WI



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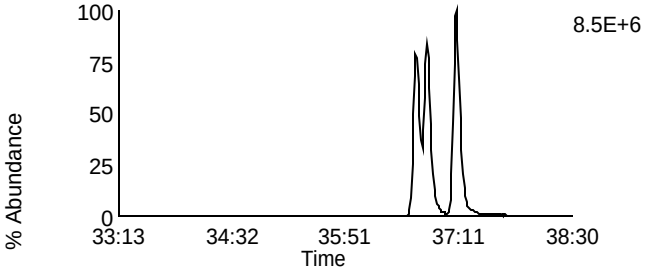
SAMP 10258392003 - BAL PASI-WI



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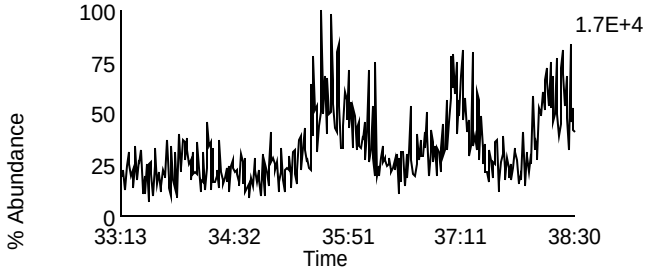
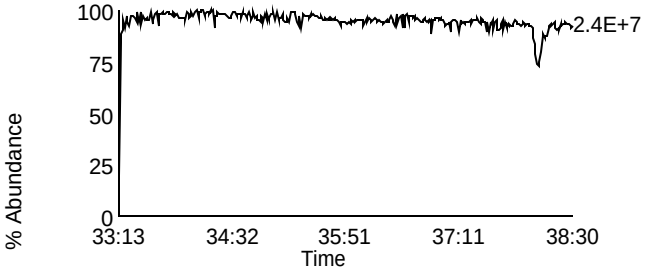
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G3 C3 - 380.976
SAMP 10258392003 - BAL PASI-WI

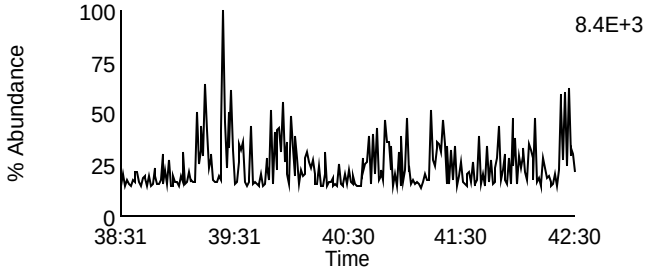


Homologue Group: Heptas

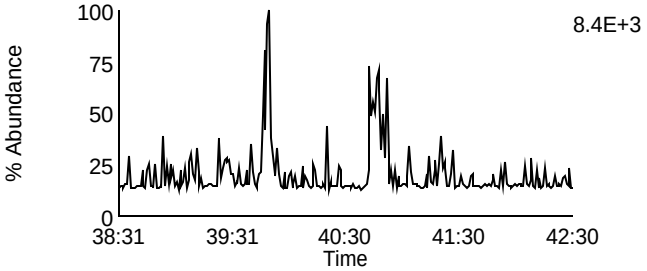
Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

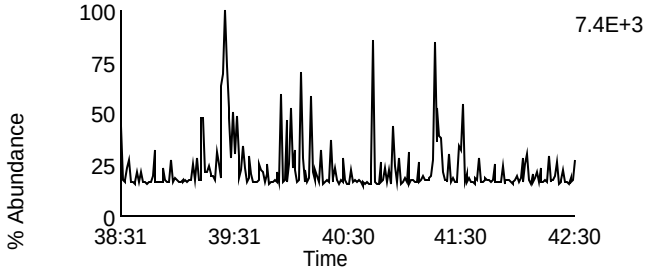
Data File: F140301B_07 G4 C3 - 407.7818
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G4 C8 - 423.7767
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G4 C4 - 409.7788
SAMP 10258392003 - BAL PASI-WI



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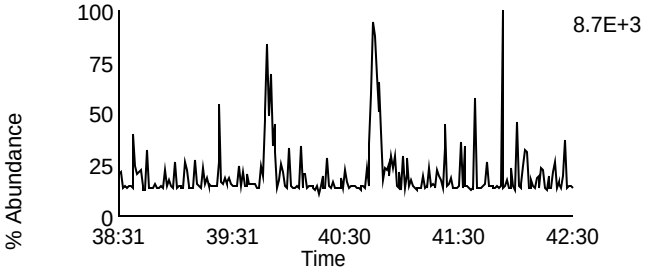
SAMP 10258392003 - BAL PASI-WI



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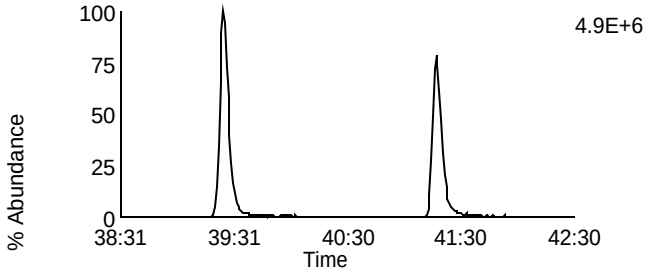
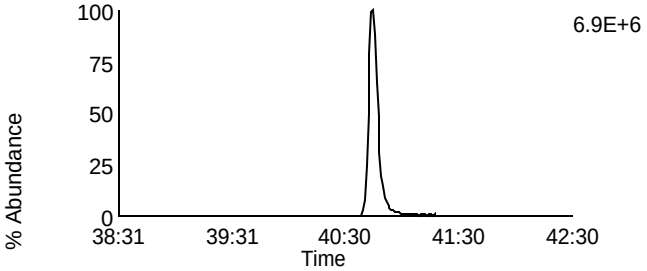
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G4 C11 - 435.8169
SAMP 10258392003 - BAL PASI-WI



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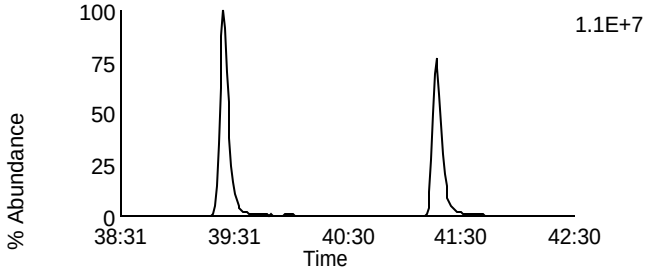
SAMP 10258392003 - BAL PASI-WI



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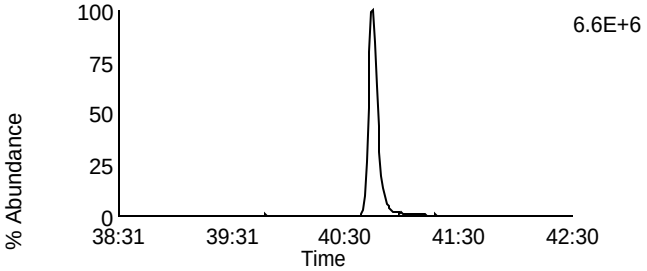
SAMP 10258392003 - BAL PASI-WI



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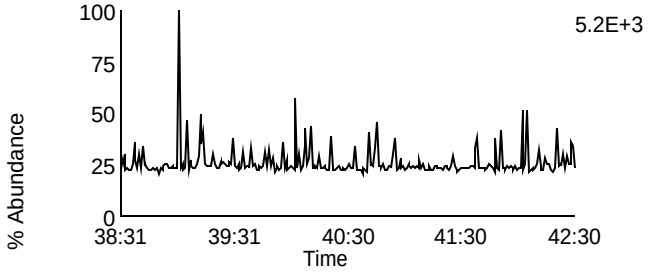
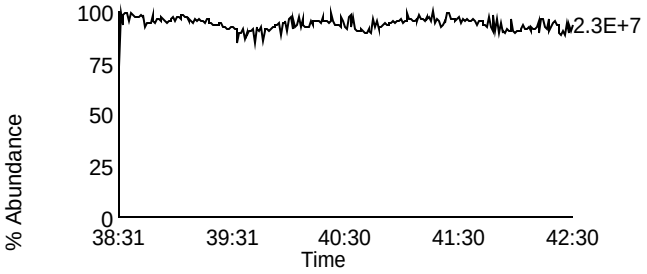
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G4 C1 - 380.976
SAMP 10258392003 - BAL PASI-WI

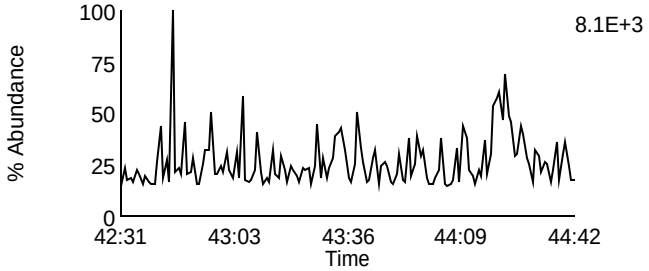


Homologue Group: Octas

Data File Name: F140301B_07
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392003 - BAL PASI-WI

Lab Sample ID: 10258392003
Client Sample ID: MAK103O
Instrument: 10MSHR05 (F)

Data File: F140301B_07 G5 C4 - 441.7428
SAMP 10258392003 - BAL PASI-WI



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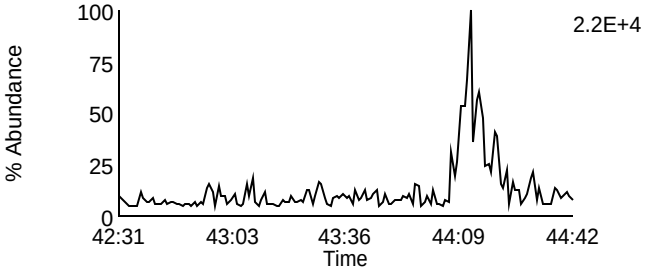

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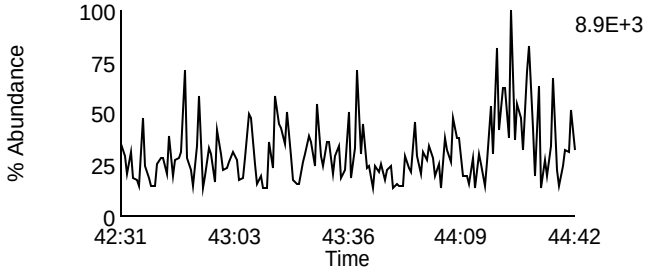
SAMP 10258392003 - BAL PASI-WI



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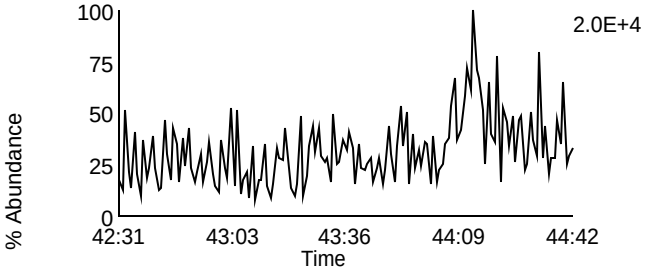
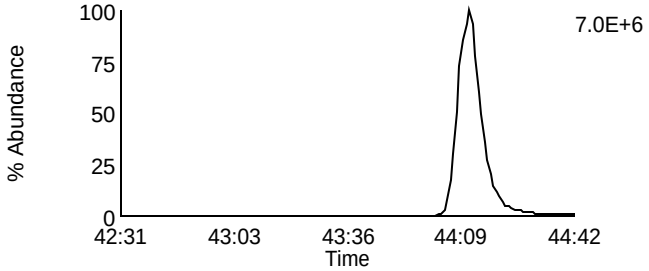
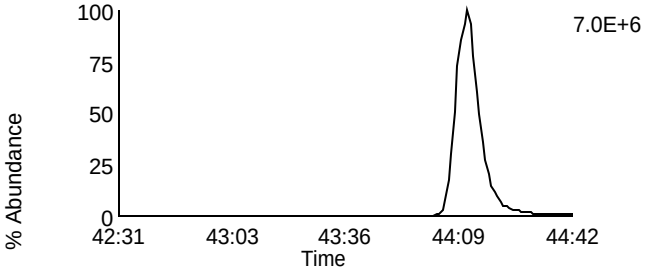
SAMP 10258392003 - BAL PASI-WI



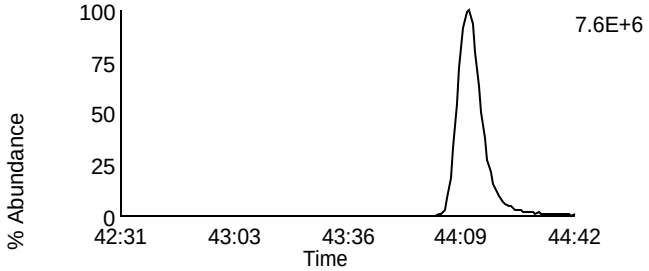
Data File: F140301B_07 G5 C11 - 469.7779
SAMP 10258392003 - BAL PASI-WI



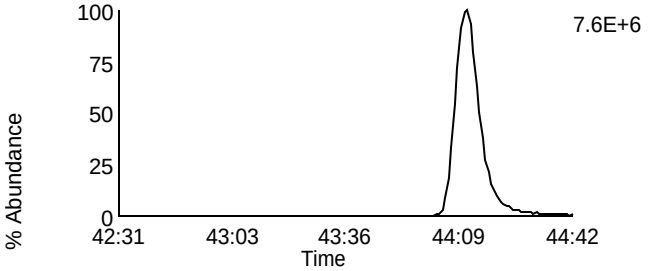
Data File: F140301B_07 G5 C11 - 469.7779
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G5 C12 - 471.7749
SAMP 10258392003 - BAL PASI-WI



Data File: F140301B_07 G5 C12 - 471.7749
SAMP 10258392003 - BAL PASI-WI



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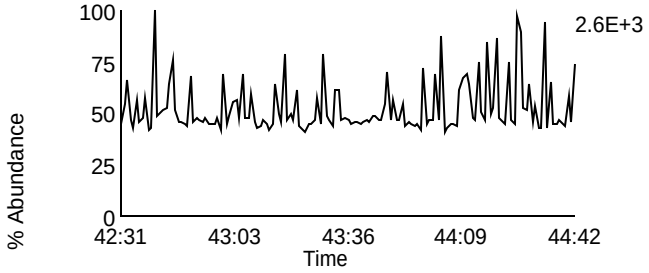
SAMP 10258392003 - BAL PASI-WI



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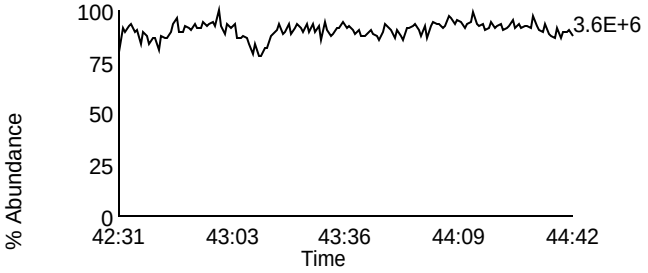
SAMP 10258392003 - BAL PASI-WI

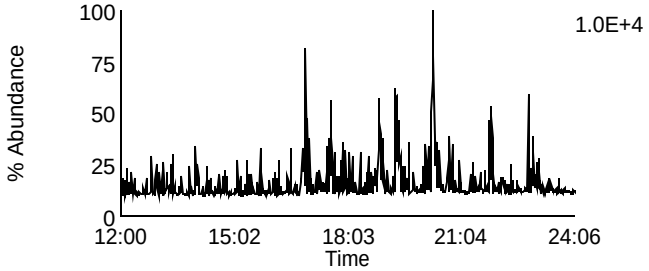


Homologue Group: Tetras

Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

Data File: F140301B_08 G1 C1 - 303.9016
SAMP 10258392004 - BAL PASI-WI



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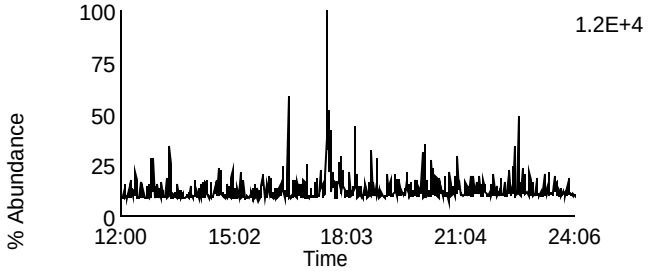
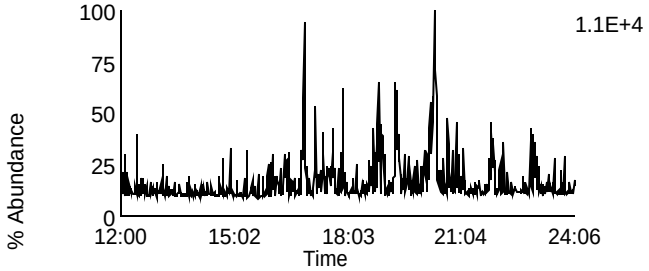
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C2 - 305.8987
SAMP 10258392004 - BAL PASI-WI



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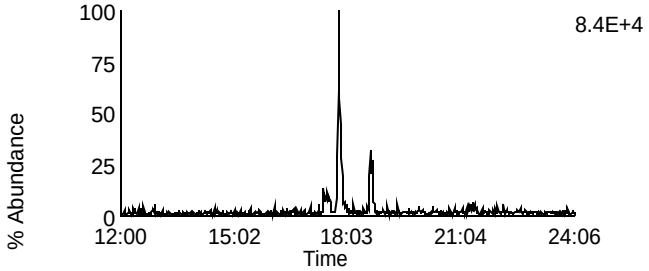
SAMP 10258392004 - BAL PASI-WI



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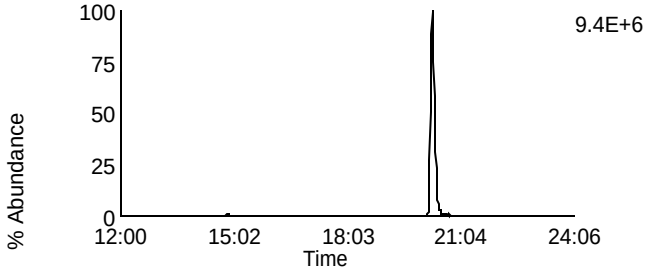
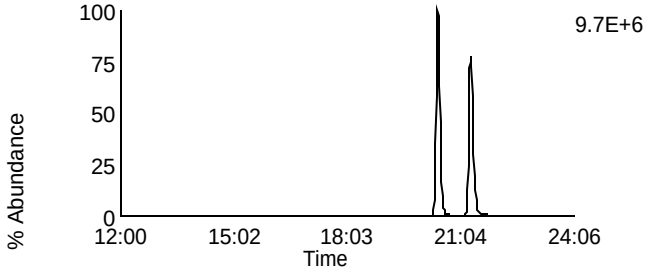
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C10 - 331.9367
SAMP 10258392004 - BAL PASI-WI



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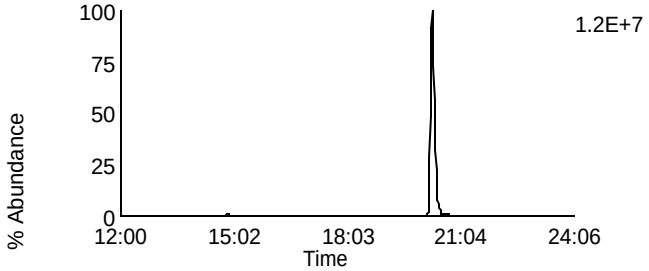
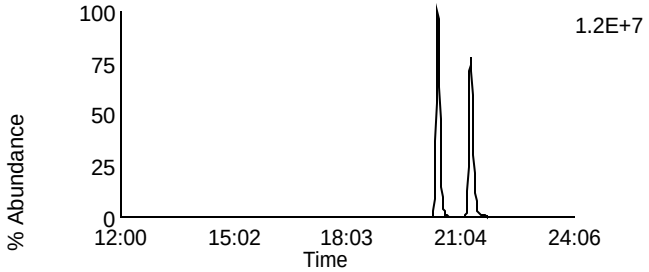
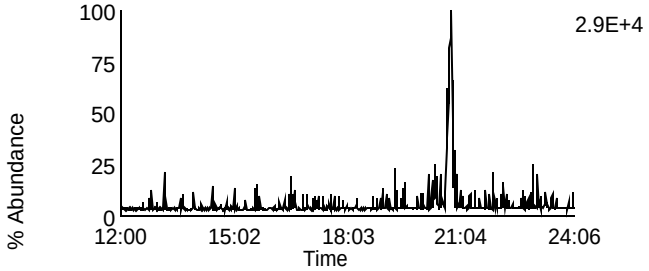
SAMP 10258392004 - BAL PASI-WI



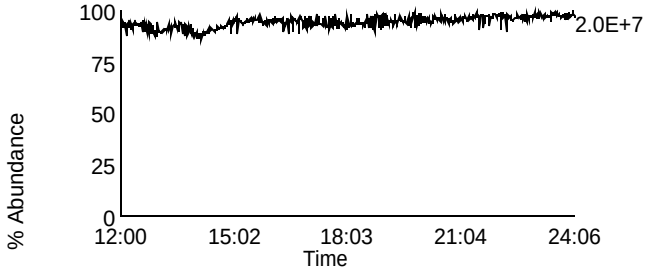
Data File: F140301B_08 G1 C11 - 333.9338
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C14 - 375.8364
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C5 - 318.9792
SAMP 10258392004 - BAL PASI-WI

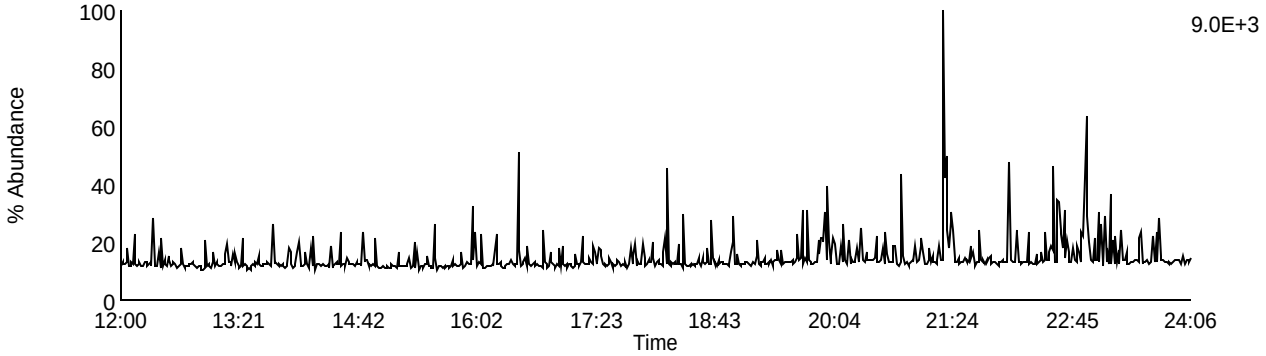


Homologue Group: Penta & Cleanup

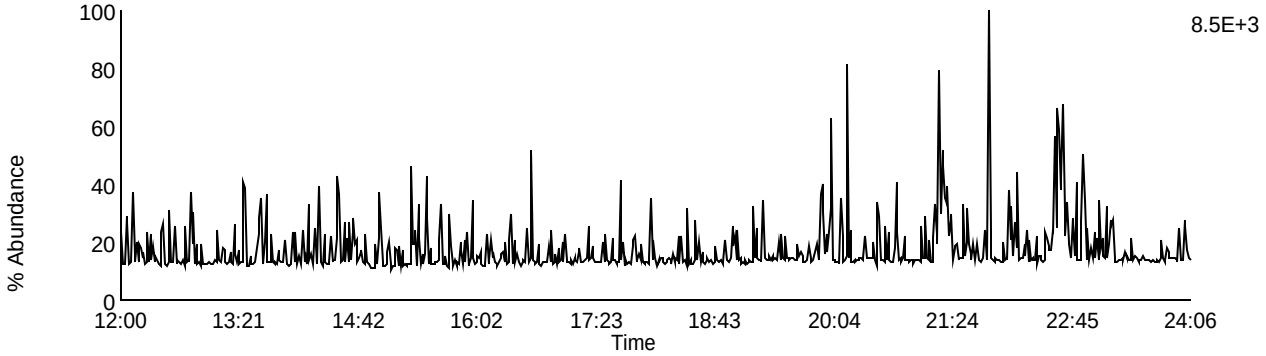
Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

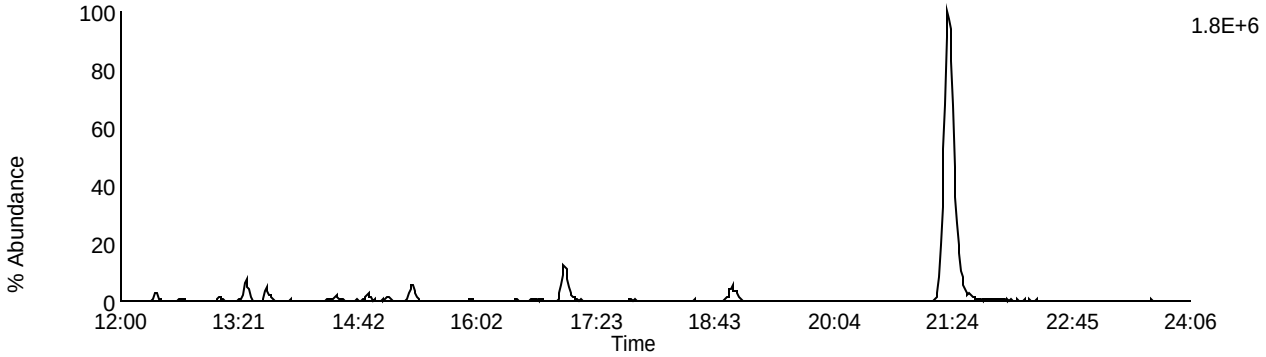
Data File: F140301B_08 G1 C12 - 339.8597
SAMP 10258392004 - BAL PASI-WI



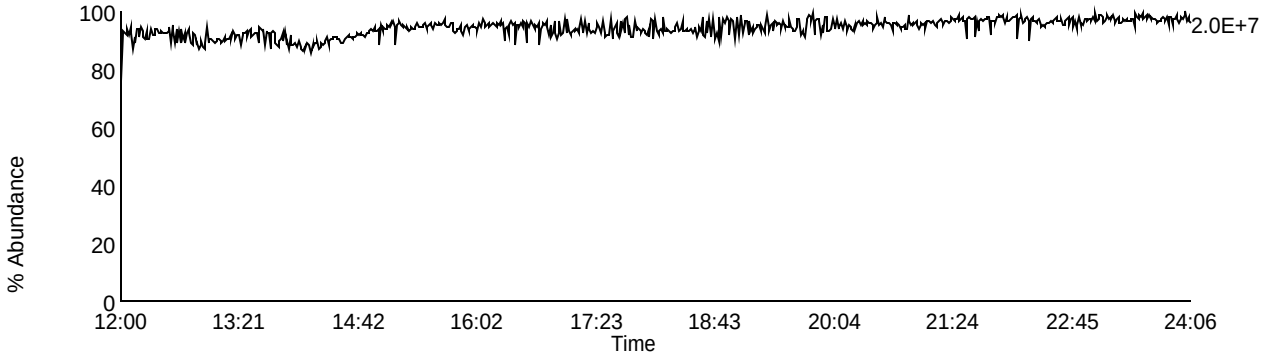
Data File: F140301B_08 G1 C13 - 341.8567
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C9 - 327.8847
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G1 C5 - 318.9792
SAMP 10258392004 - BAL PASI-WI

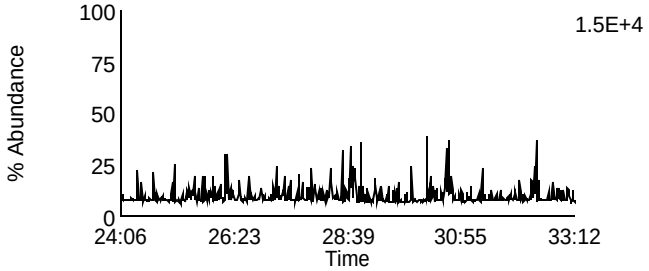


Homologue Group: Pentas

Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

Data File: F140301B_08 G2 C1 - 339.8597
SAMP 10258392004 - BAL PASI-WI



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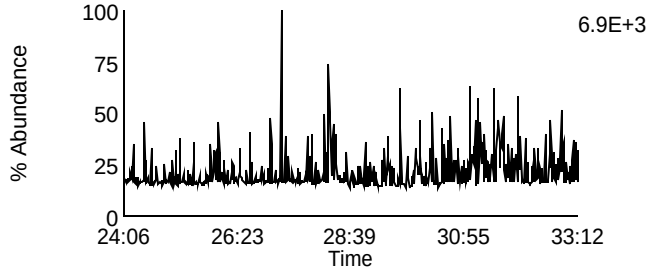
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G2 C2 - 341.8567
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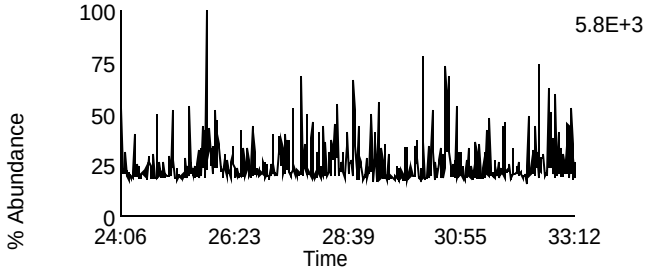

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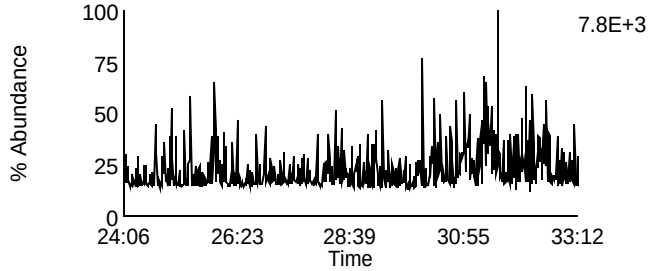
SAMP 10258392004 - BAL PASI-WI



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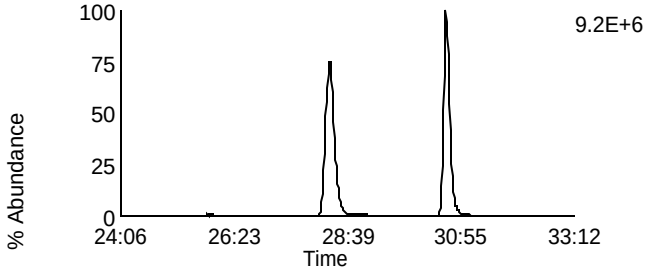
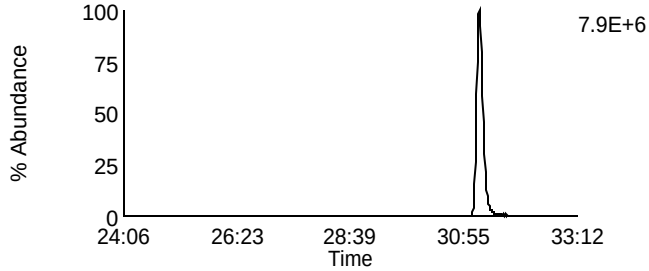
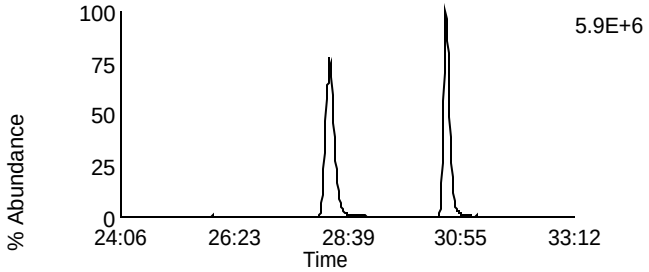
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G2 C10 - 367.8948
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G2 C5 - 353.8969
SAMP 10258392004 - BAL PASI-WI



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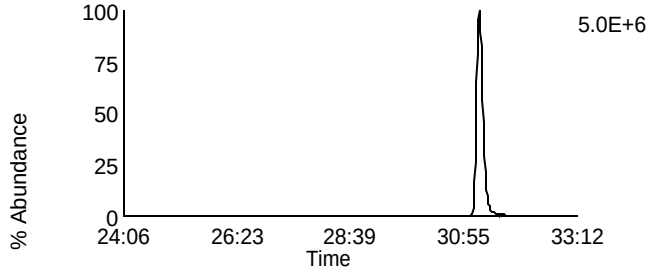
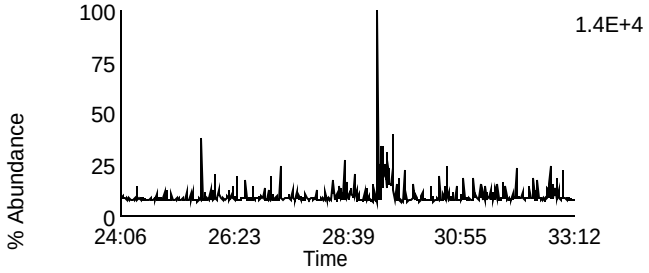
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G2 C12 - 409.7974
SAMP 10258392004 - BAL PASI-WI



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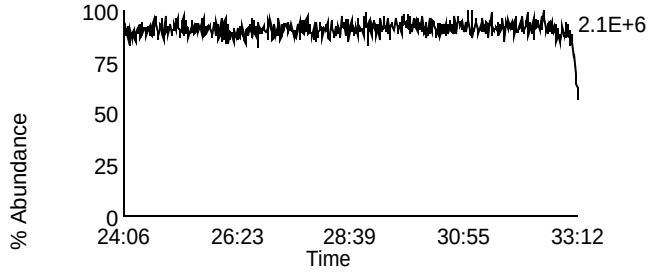
SAMP 10258392004 - BAL PASI-WI

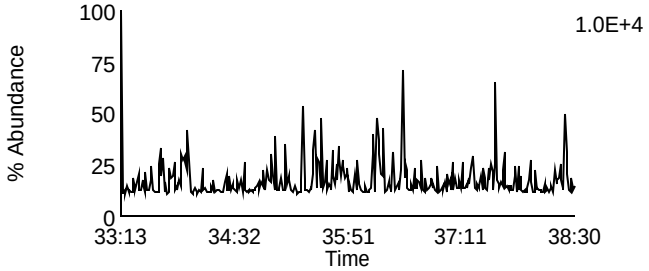


Homologue Group: Hexas

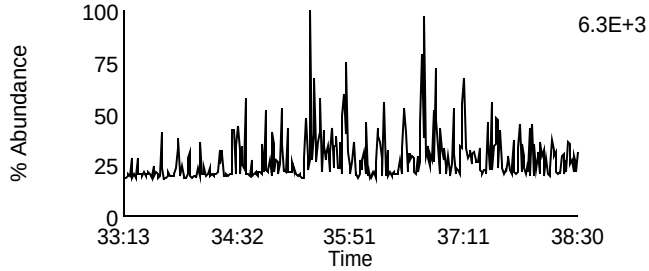
Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

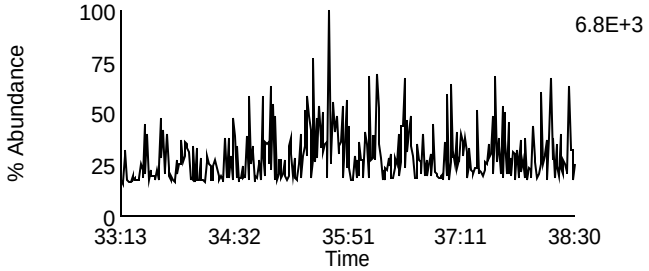
Data File: F140301B_08 G3 C1 - 373.8207
SAMP 10258392004 - BAL PASI-WI



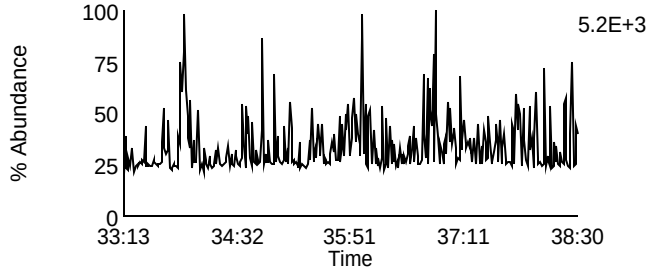
Data File: F140301B_08 G3 C7 - 389.8156
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G3 C2 - 375.8178
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G3 C8 - 391.8127
SAMP 10258392004 - BAL PASI-WI



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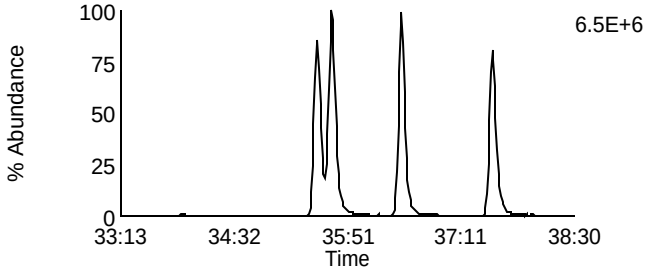
SAMP 10258392004 - BAL PASI-WI



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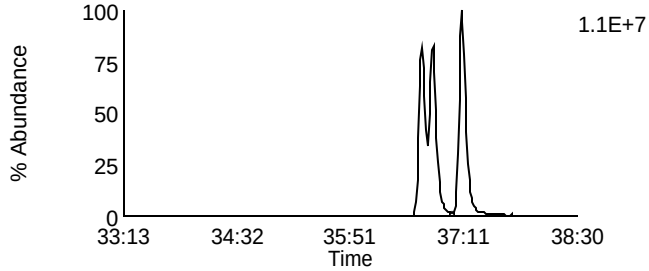
SAMP 10258392004 - BAL PASI-WI



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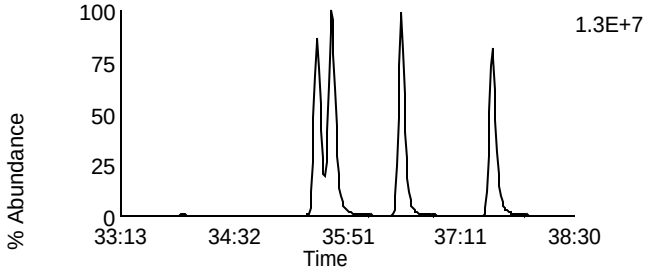

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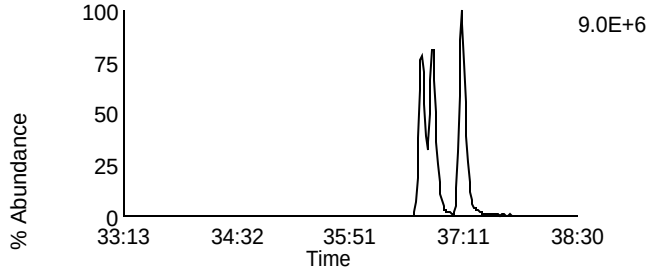
SAMP 10258392004 - BAL PASI-WI



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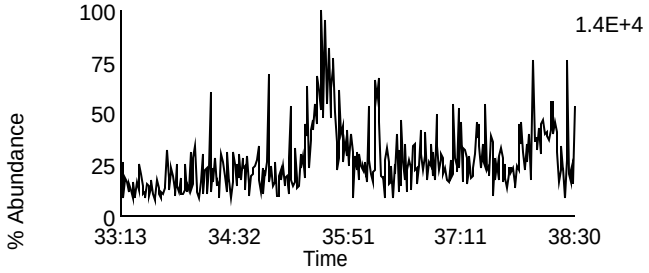

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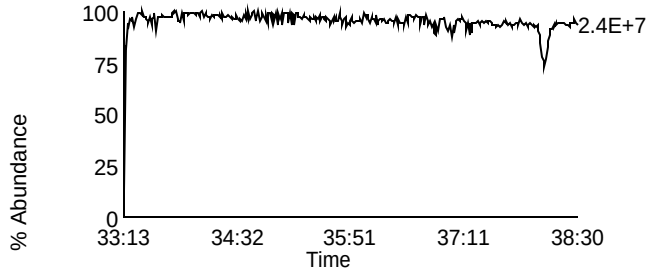
SAMP 10258392004 - BAL PASI-WI

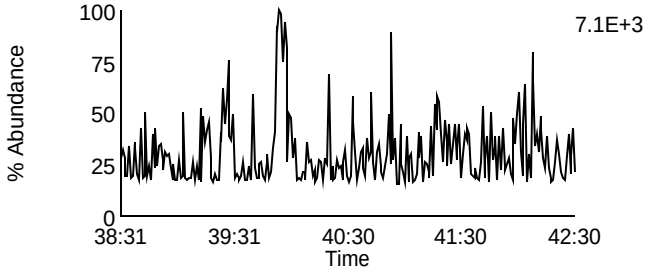


Homologue Group: Heptas

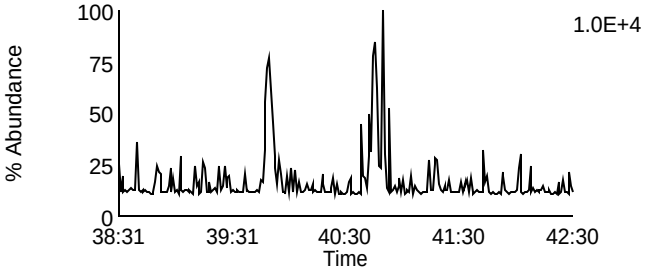
Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

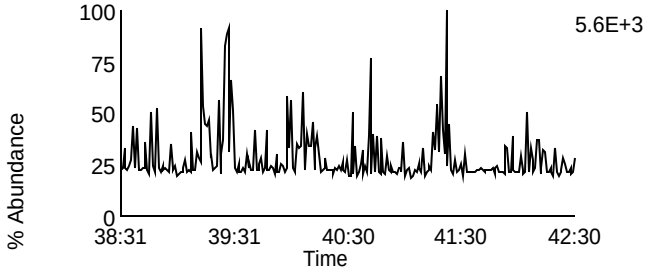
Data File: F140301B_08 G4 C3 - 407.7818
SAMP 10258392004 - BAL PASI-WI



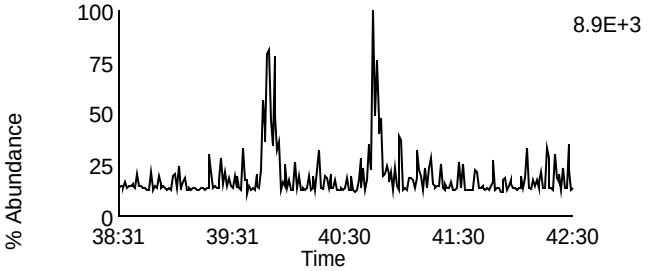
Data File: F140301B_08 G4 C8 - 423.7767
SAMP 10258392004 - BAL PASI-WI



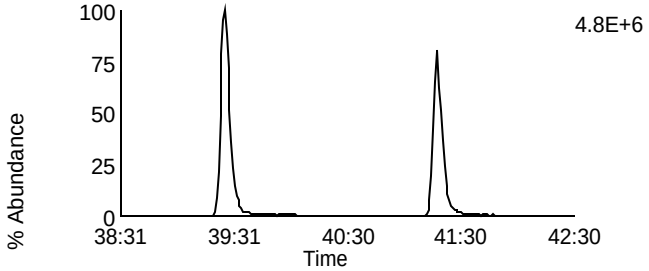
Data File: F140301B_08 G4 C4 - 409.7788
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G4 C9 - 425.7737
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G4 C6 - 417.825
SAMP 10258392004 - BAL PASI-WI



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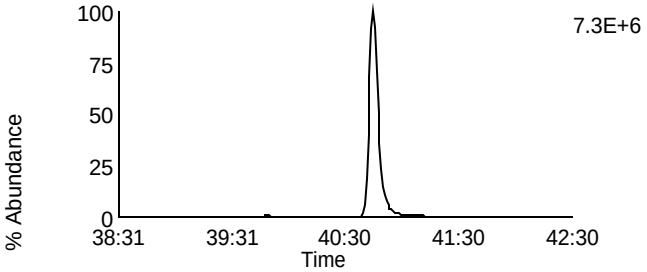
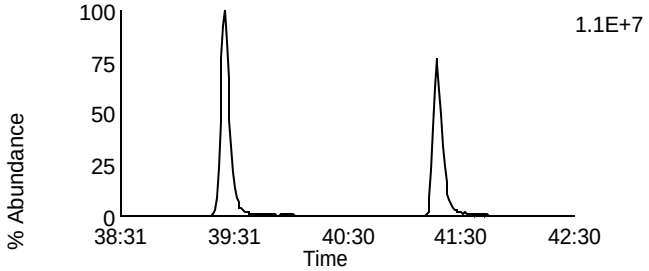
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G4 C7 - 419.822
SAMP 10258392004 - BAL PASI-WI



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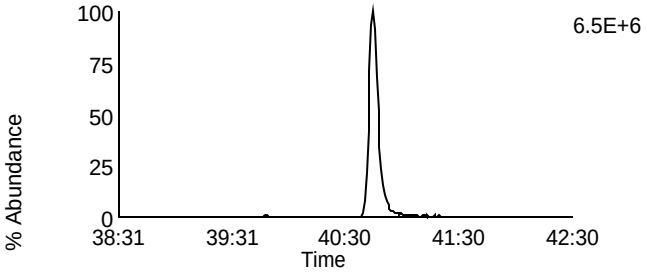
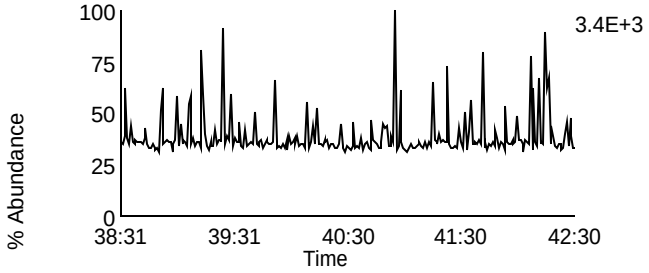
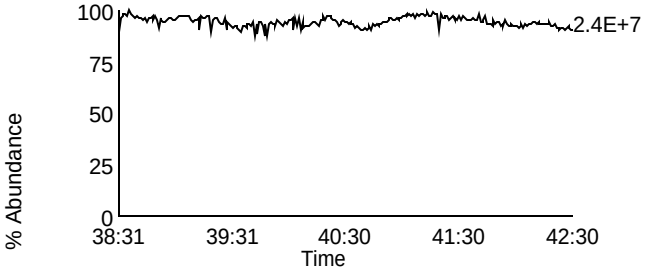
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G4 C13 - 479.7165
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G4 C1 - 380.976
SAMP 10258392004 - BAL PASI-WI

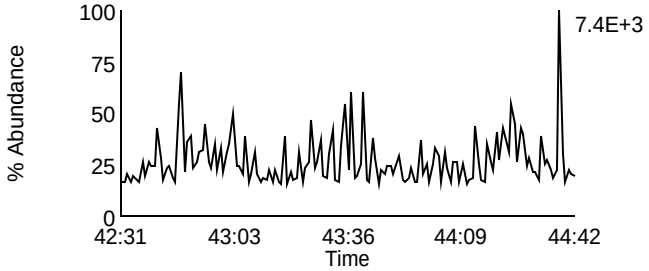


Homologue Group: Octas

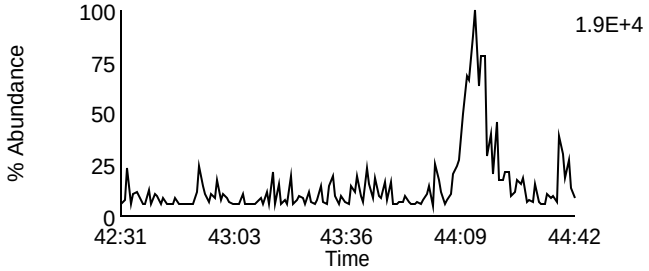
Data File Name: F140301B_08
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392004 - BAL PASI-WI

Lab Sample ID: 10258392004
Client Sample ID: MAK104O
Instrument: 10MSHR05 (F)

Data File: F140301B_08 G5 C4 - 441.7428
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G5 C8 - 457.7377
SAMP 10258392004 - BAL PASI-WI



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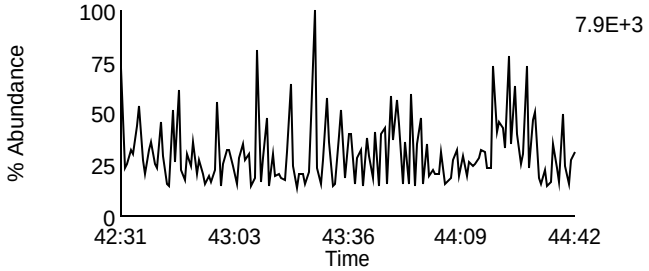
SAMP 10258392004 - BAL PASI-WI



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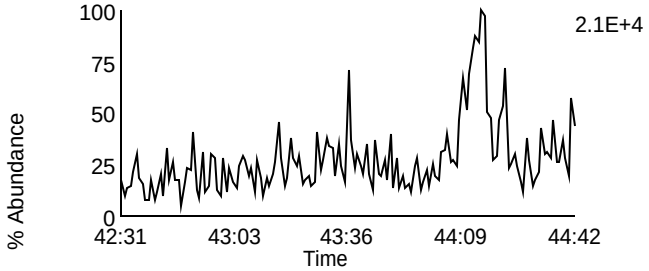
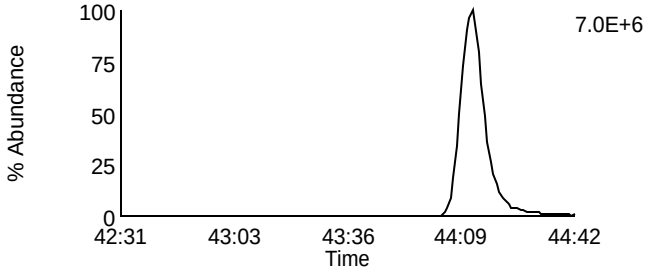
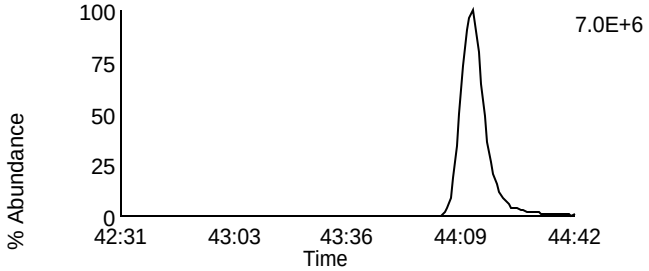
SAMP 10258392004 - BAL PASI-WI



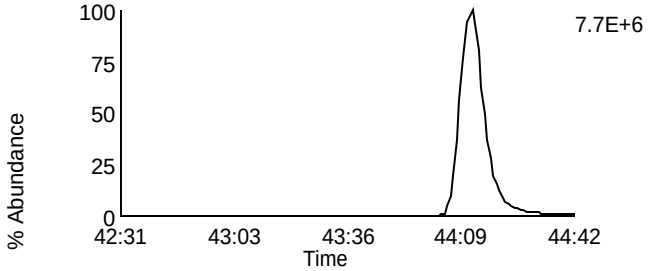
Data File: F140301B_08 G5 C11 - 469.7779
SAMP 10258392004 - BAL PASI-WI



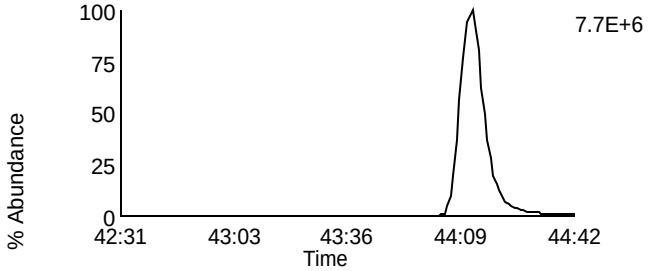
Data File: F140301B_08 G5 C11 - 469.7779
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G5 C12 - 471.7749
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G5 C12 - 471.7749
SAMP 10258392004 - BAL PASI-WI



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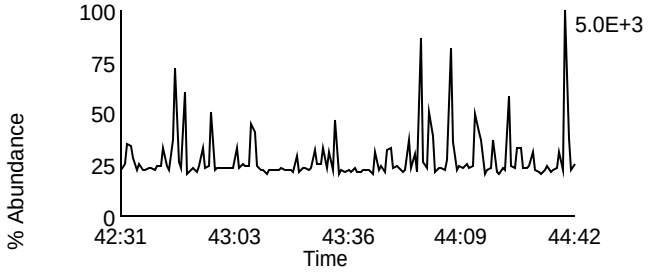
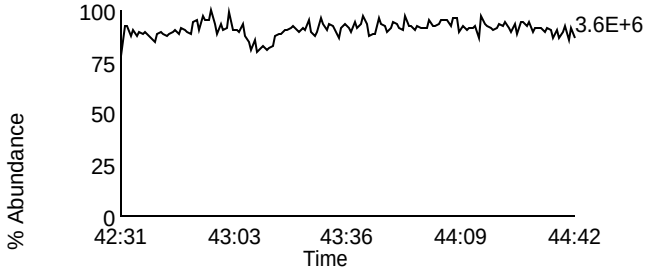
SAMP 10258392004 - BAL PASI-WI



Data File: F140301B_08 G5 C2 - 430.9728
SAMP 10258392004 - BAL PASI-WI

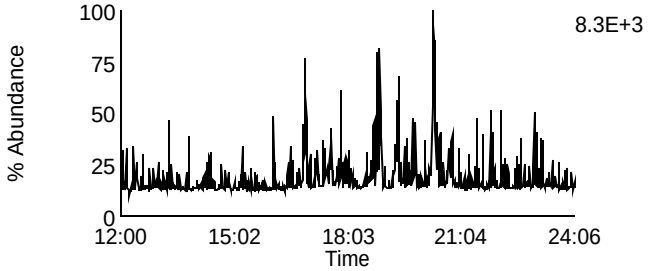


Homologue Group: Tetras

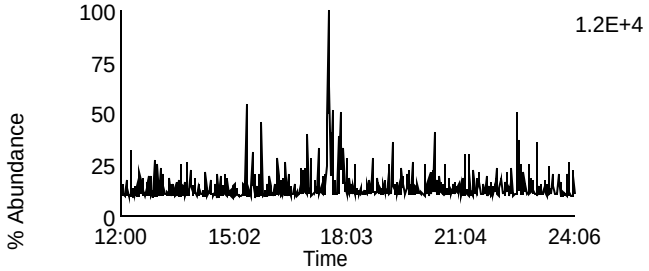
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

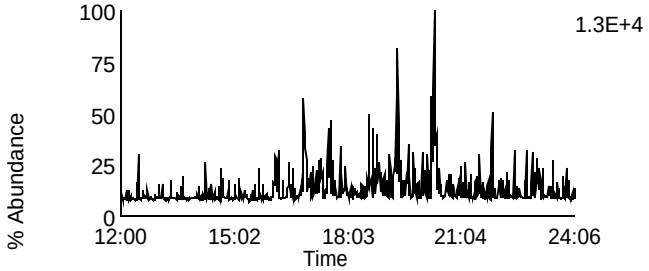
Data File: F140301B_09 G1 C1 - 303.9016
SAMP 10258392005 - BAL PASI-WI



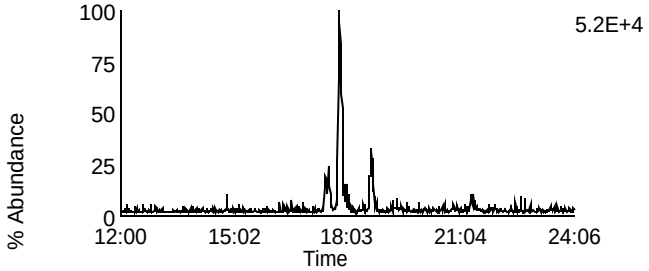
Data File: F140301B_09 G1 C7 - 319.8965
SAMP 10258392005 - BAL PASI-WI



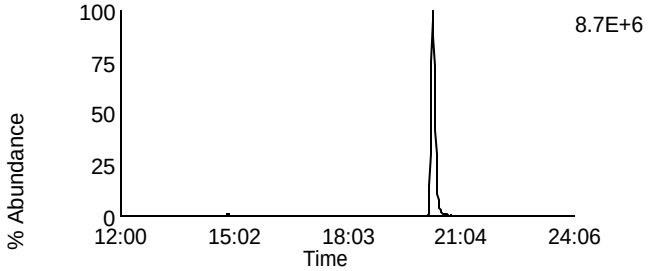
Data File: F140301B_09 G1 C2 - 305.8987
SAMP 10258392005 - BAL PASI-WI



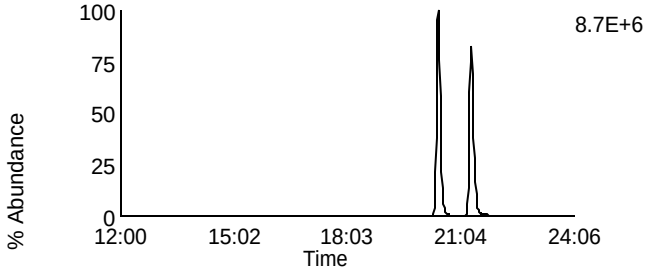
Data File: F140301B_09 G1 C8 - 321.8936
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C3 - 315.9418
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C10 - 331.9367
SAMP 10258392005 - BAL PASI-WI



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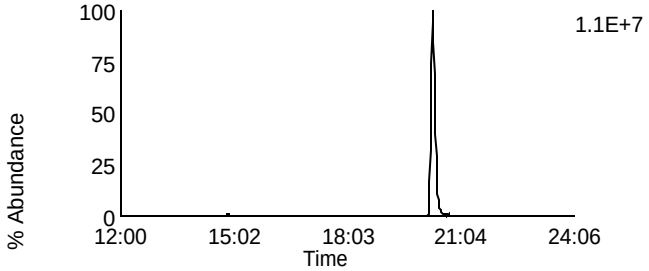
SAMP 10258392005 - BAL PASI-WI



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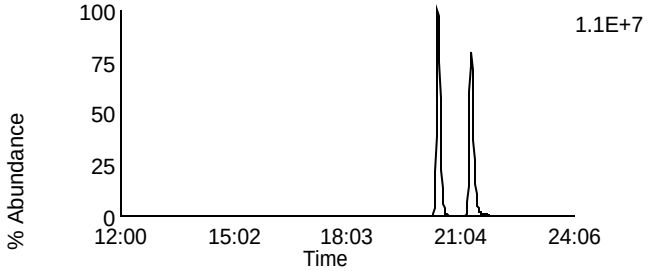
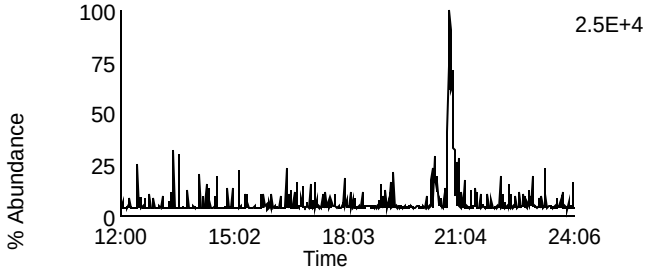
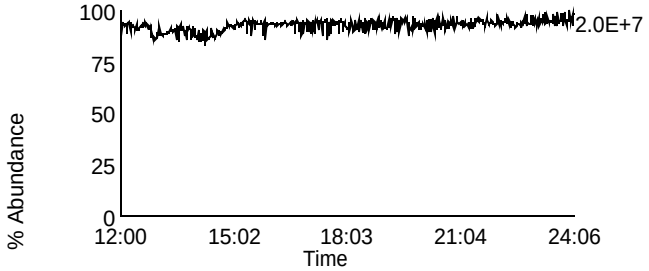
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C14 - 375.8364
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C5 - 318.9792
SAMP 10258392005 - BAL PASI-WI

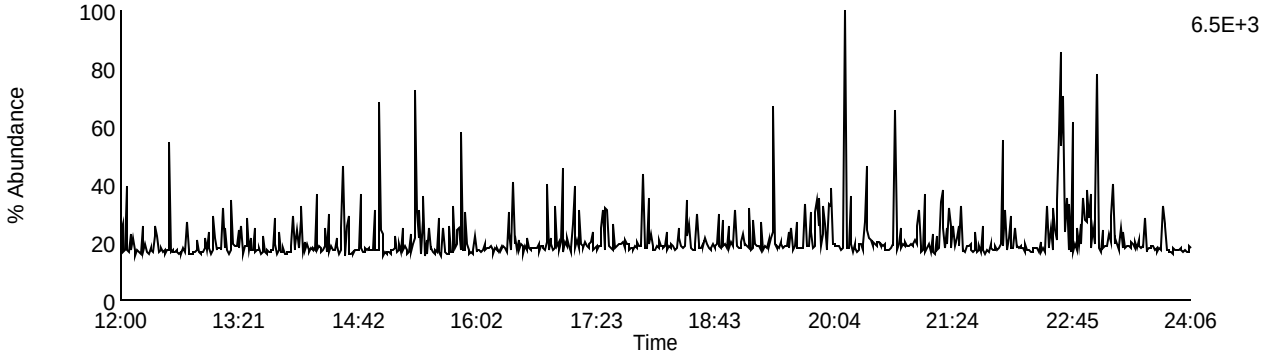


Homologue Group: Penta & Cleanup

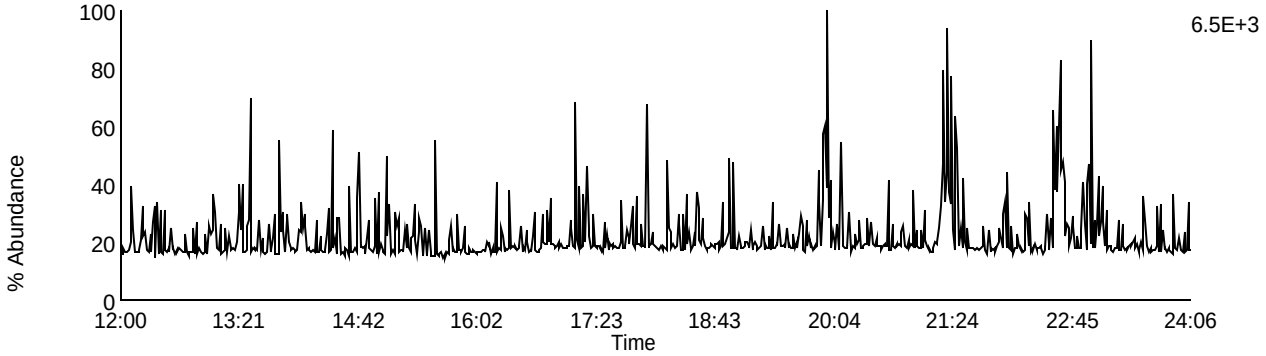
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

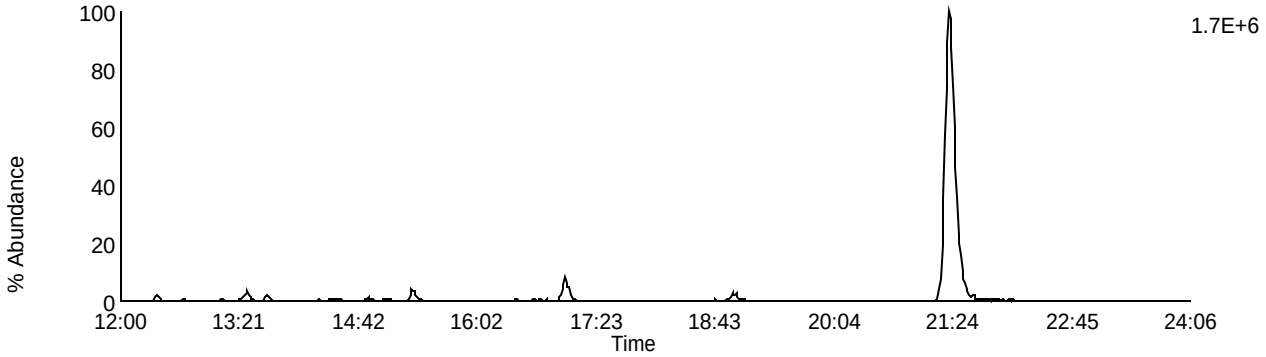
Data File: F140301B_09 G1 C12 - 339.8597
SAMP 10258392005 - BAL PASI-WI



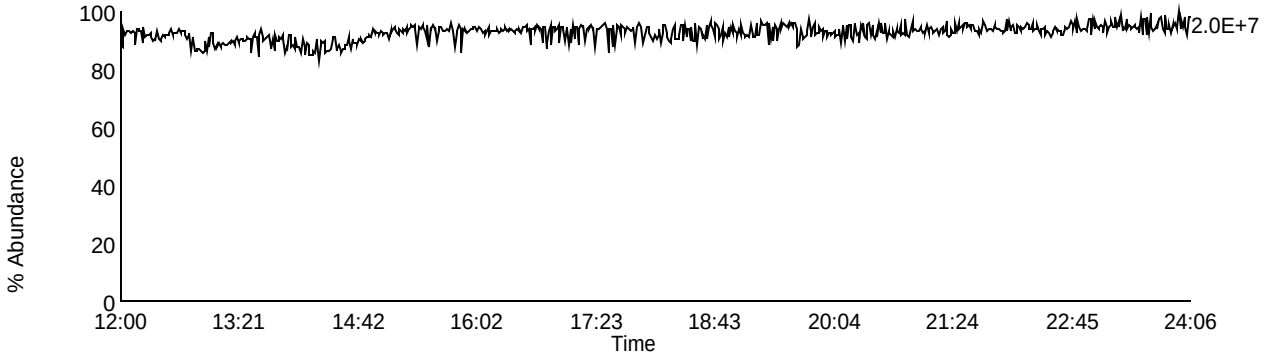
Data File: F140301B_09 G1 C13 - 341.8567
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C9 - 327.8847
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G1 C5 - 318.9792
SAMP 10258392005 - BAL PASI-WI

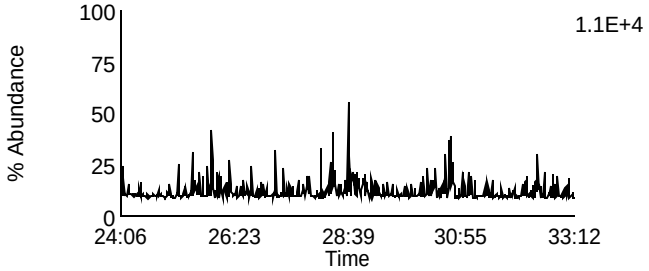


Homologue Group: Pentas

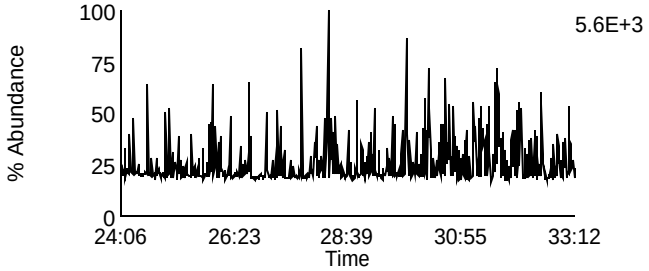
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

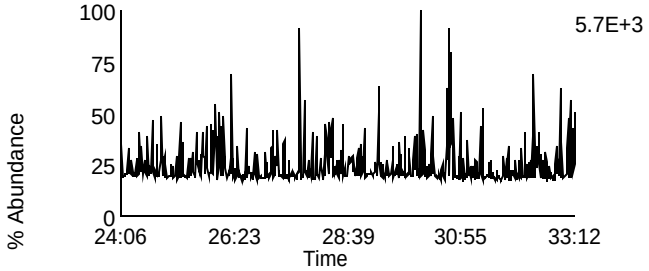
Data File: F140301B_09 G2 C1 - 339.8597
SAMP 10258392005 - BAL PASI-WI



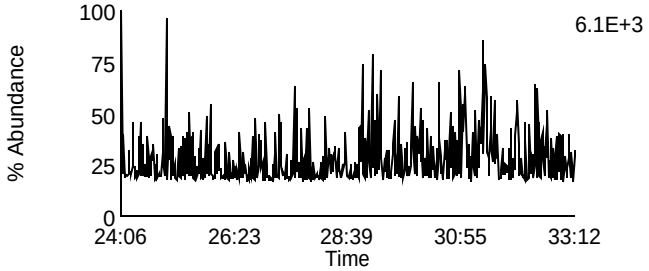
Data File: F140301B_09 G2 C4 - 353.8576
SAMP 10258392005 - BAL PASI-WI



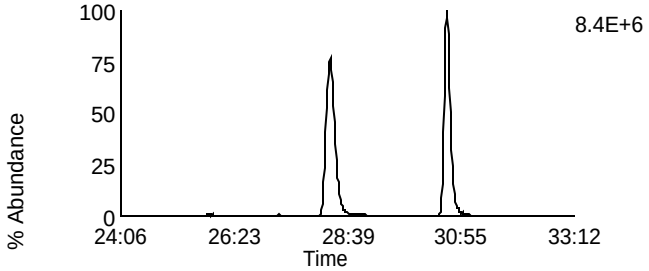
Data File: F140301B_09 G2 C2 - 341.8567
SAMP 10258392005 - BAL PASI-WI



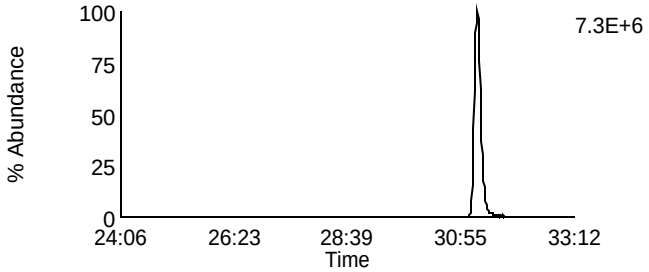
Data File: F140301B_09 G2 C8 - 355.8546
SAMP 10258392005 - BAL PASI-WI



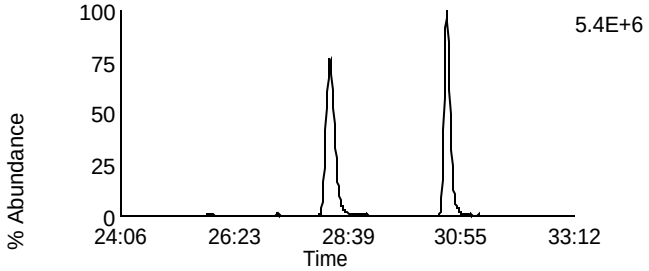
Data File: F140301B_09 G2 C3 - 351.8999
SAMP 10258392005 - BAL PASI-WI



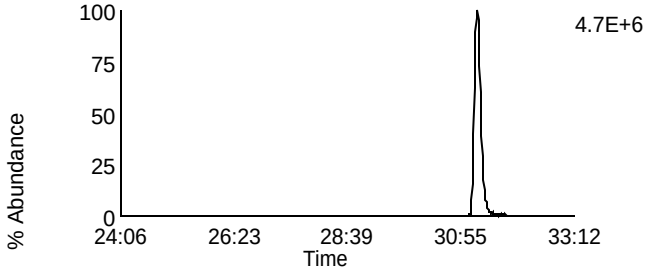
Data File: F140301B_09 G2 C10 - 367.8948
SAMP 10258392005 - BAL PASI-WI



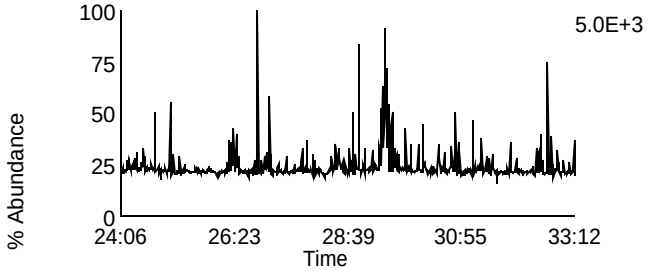
Data File: F140301B_09 G2 C5 - 353.8969
SAMP 10258392005 - BAL PASI-WI



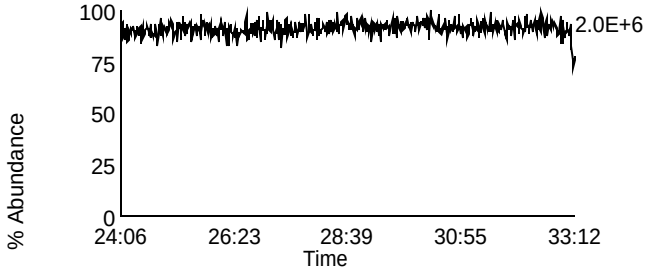
Data File: F140301B_09 G2 C11 - 369.8918
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G2 C12 - 409.7974
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G2 C6 - 354.9792
SAMP 10258392005 - BAL PASI-WI

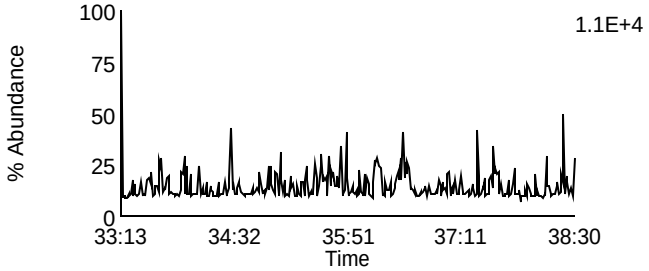


Homologue Group: Hexas

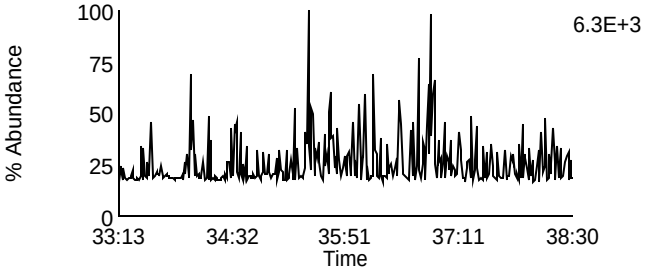
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

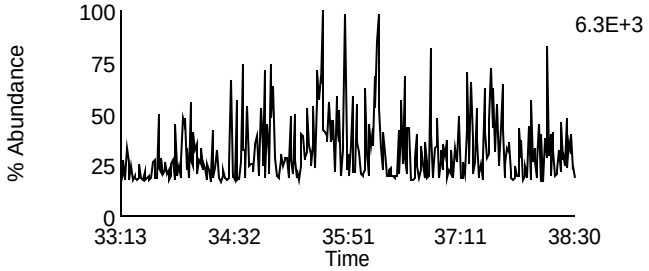
Data File: F140301B_09 G3 C1 - 373.8207
SAMP 10258392005 - BAL PASI-WI



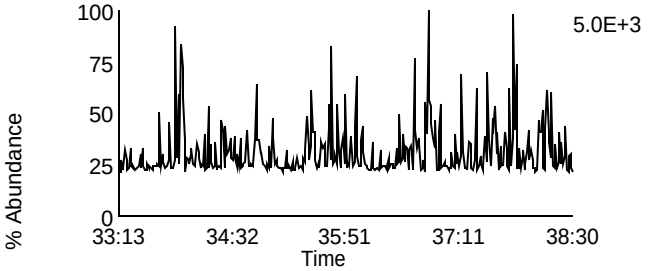
Data File: F140301B_09 G3 C7 - 389.8156
SAMP 10258392005 - BAL PASI-WI



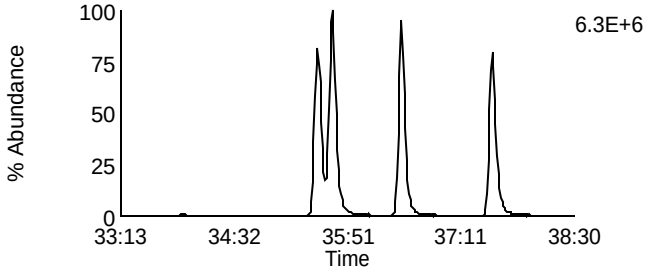
Data File: F140301B_09 G3 C2 - 375.8178
SAMP 10258392005 - BAL PASI-WI



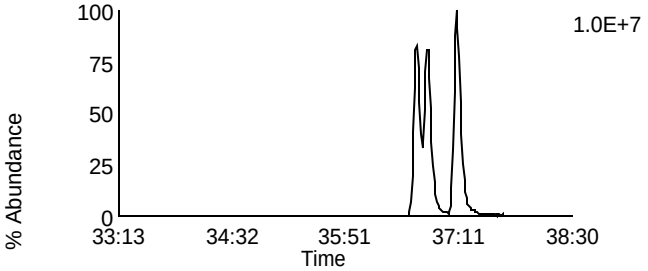
Data File: F140301B_09 G3 C8 - 391.8127
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G3 C5 - 383.8639
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G3 C9 - 401.8559
SAMP 10258392005 - BAL PASI-WI



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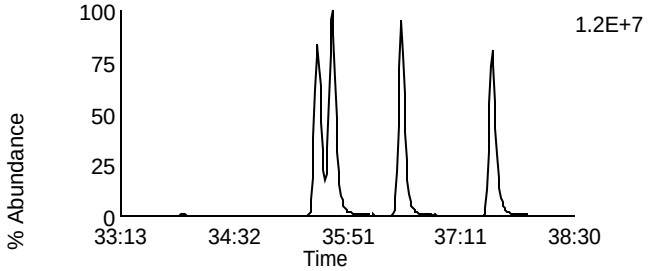
SAMP 10258392005 - BAL PASI-WI



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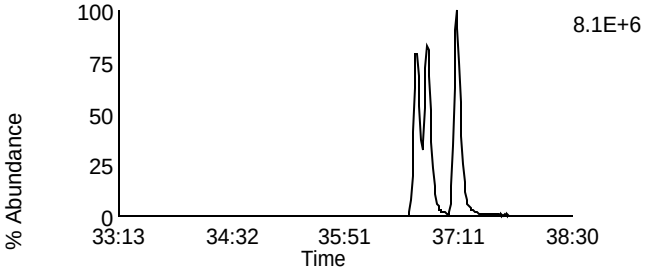
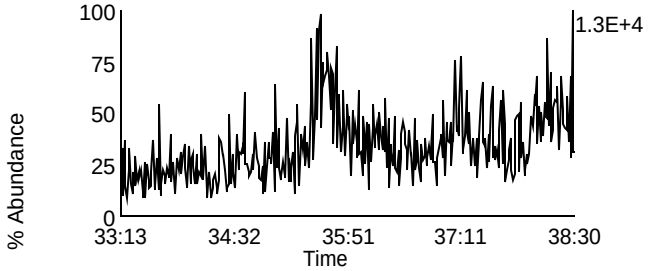
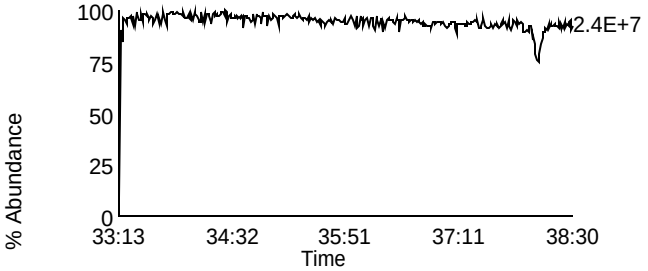
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G3 C11 - 445.7555
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G3 C3 - 380.976
SAMP 10258392005 - BAL PASI-WI

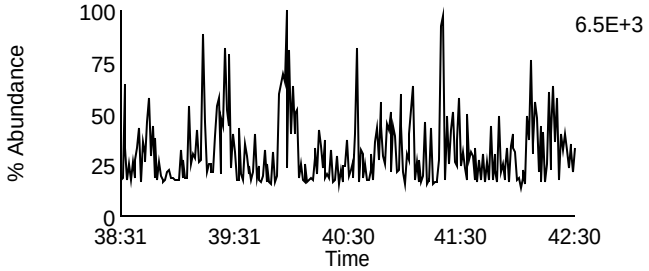


Homologue Group: Heptas

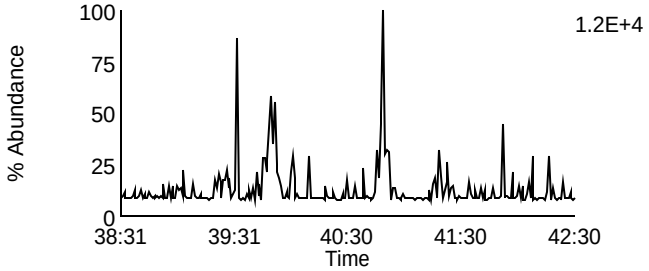
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

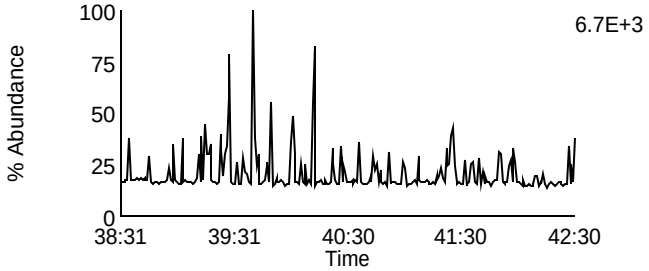
Data File: F140301B_09 G4 C3 - 407.7818
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G4 C8 - 423.7767
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G4 C4 - 409.7788
SAMP 10258392005 - BAL PASI-WI



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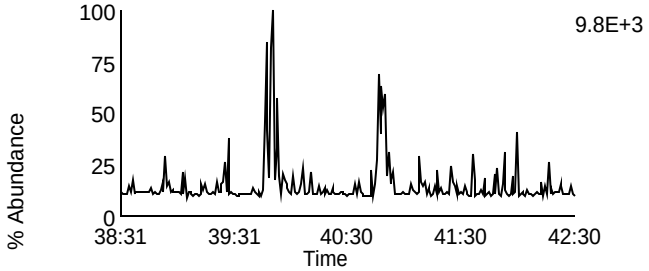
SAMP 10258392005 - BAL PASI-WI



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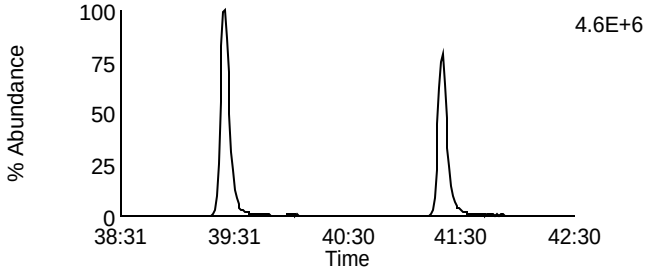
SAMP 10258392005 - BAL PASI-WI



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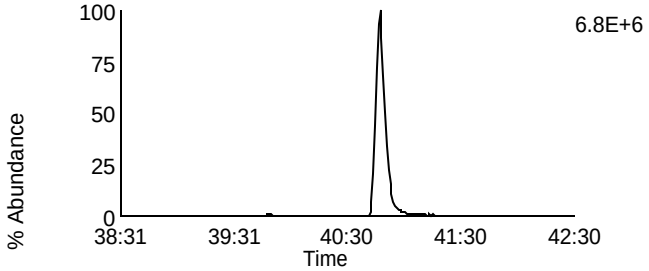
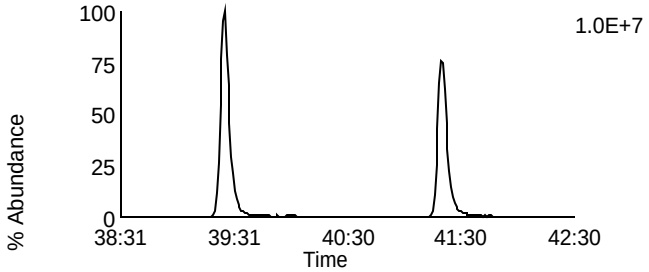
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G4 C7 - 419.822
SAMP 10258392005 - BAL PASI-WI



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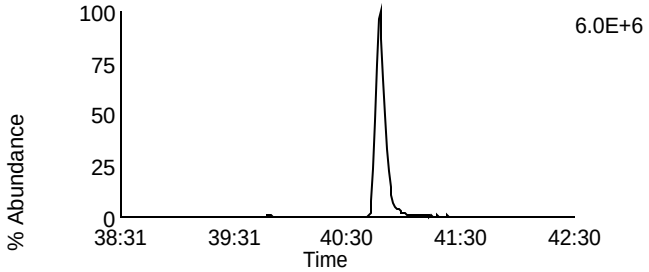
SAMP 10258392005 - BAL PASI-WI



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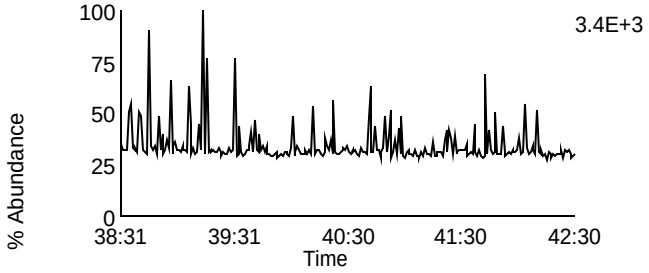
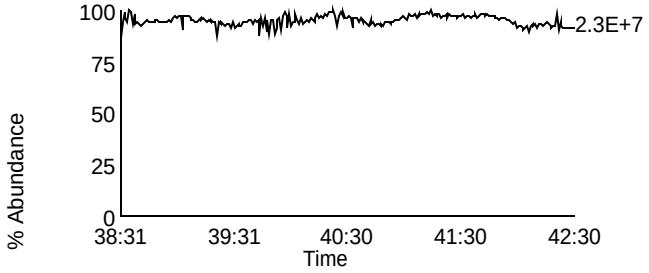
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G4 C1 - 380.976
SAMP 10258392005 - BAL PASI-WI

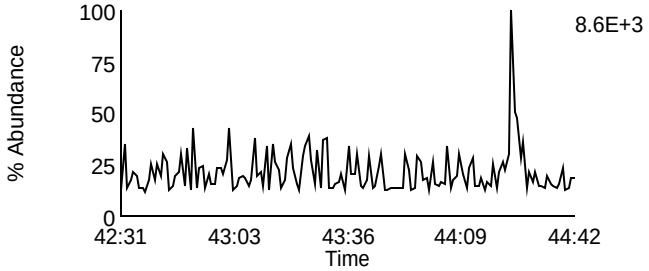


Homologue Group: Octas

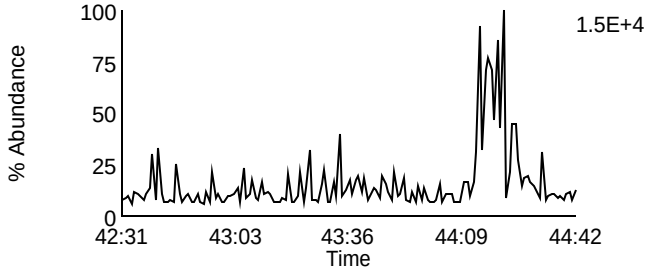
Data File Name: F140301B_09
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392005 - BAL PASI-WI

Lab Sample ID: 10258392005
Client Sample ID: MAK105O
Instrument: 10MSHR05 (F)

Data File: F140301B_09 G5 C4 - 441.7428
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G5 C8 - 457.7377
SAMP 10258392005 - BAL PASI-WI



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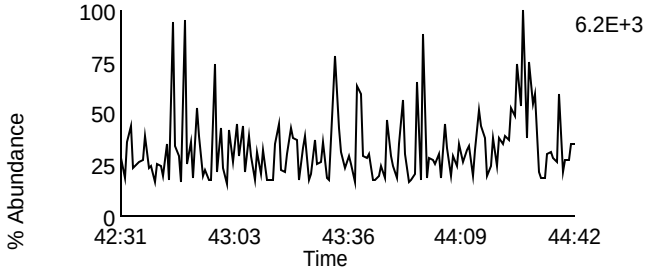
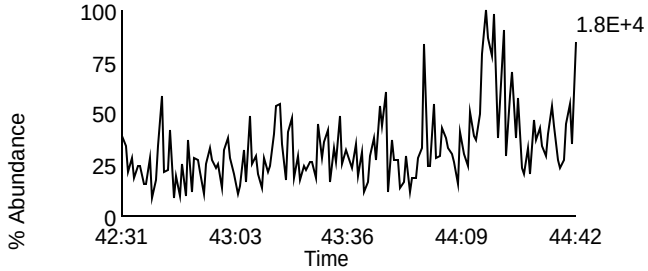
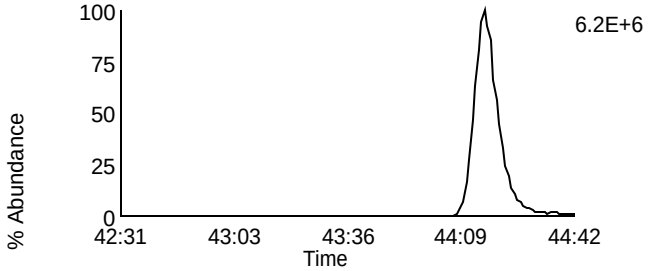
SAMP 10258392005 - BAL PASI-WI



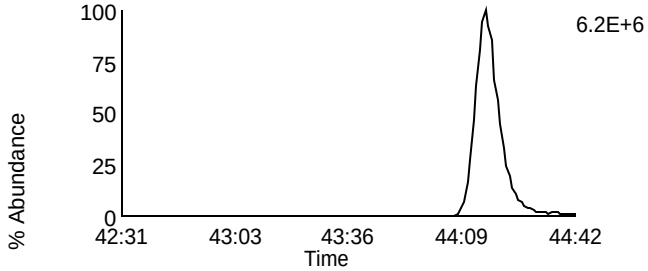
Data File: F140301B_09 G5 C9 - 459.7347
SAMP 10258392005 - BAL PASI-WI



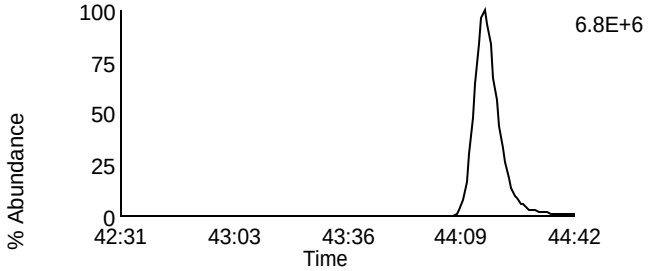
Data File: F140301B_09 G5 C11 - 469.7779
SAMP 10258392005 - BAL PASI-WI



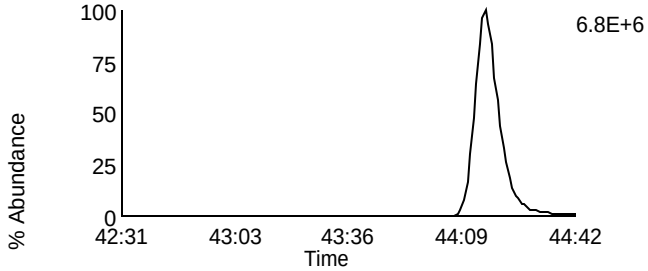
Data File: F140301B_09 G5 C11 - 469.7779
SAMP 10258392005 - BAL PASI-WI



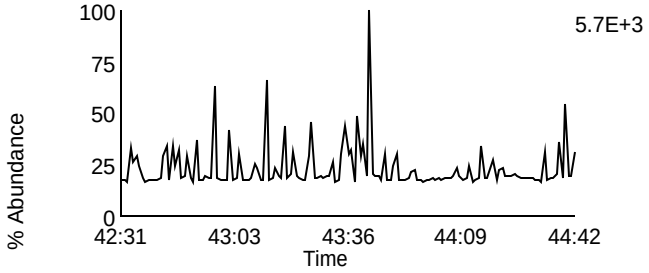
Data File: F140301B_09 G5 C12 - 471.7749
SAMP 10258392005 - BAL PASI-WI



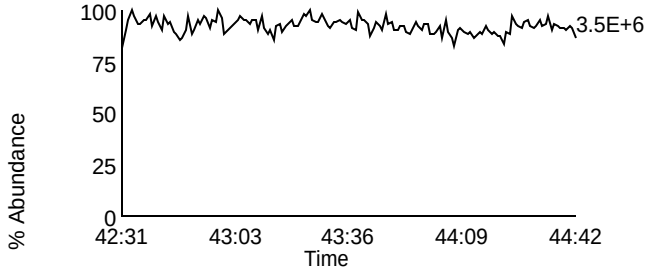
Data File: F140301B_09 G5 C12 - 471.7749
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G5 C13 - 513.6775
SAMP 10258392005 - BAL PASI-WI



Data File: F140301B_09 G5 C2 - 430.9728
SAMP 10258392005 - BAL PASI-WI

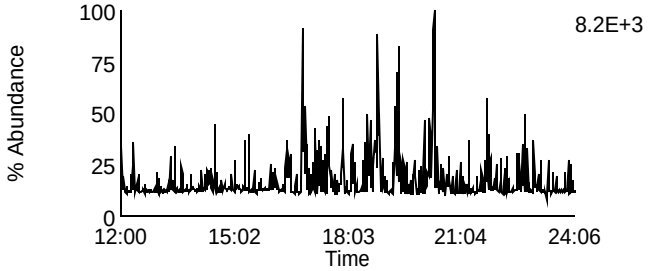


Homologue Group: Tetras

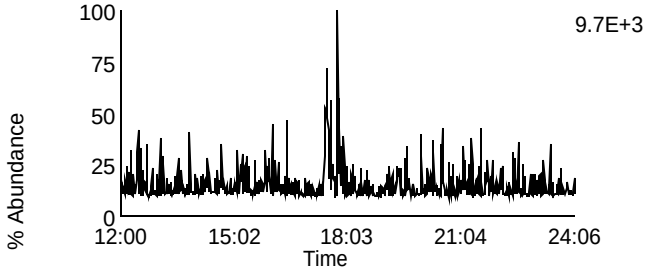
Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

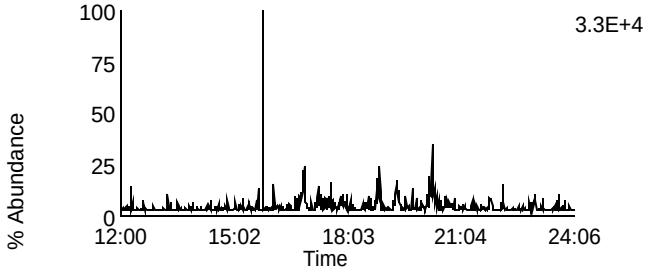
Data File: F140301B_10 G1 C1 - 303.9016
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C7 - 319.8965
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C2 - 305.8987
SAMP 10258392006 - BAL PASI-WI



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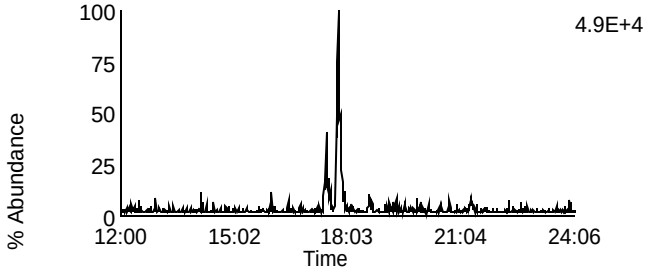
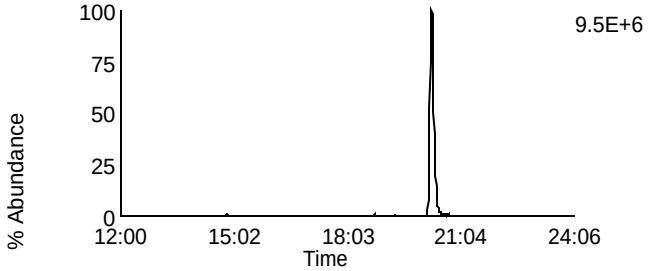
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C3 - 315.9418
SAMP 10258392006 - BAL PASI-WI



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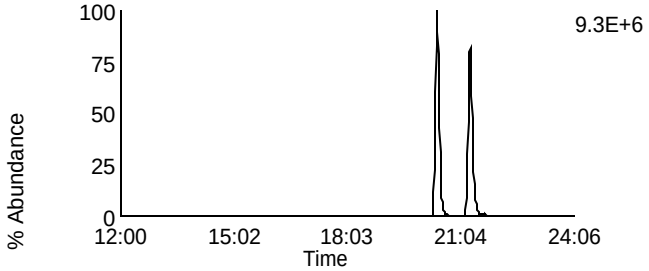
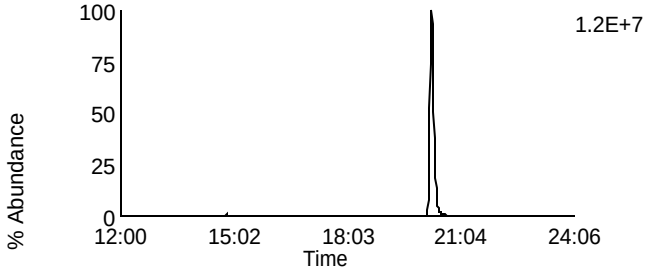
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C4 - 317.9389
SAMP 10258392006 - BAL PASI-WI



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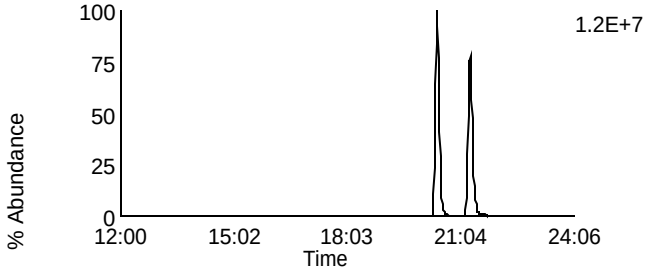
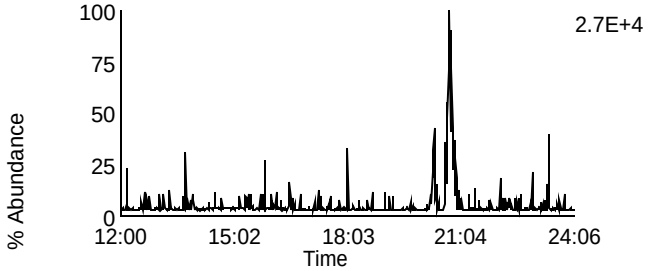
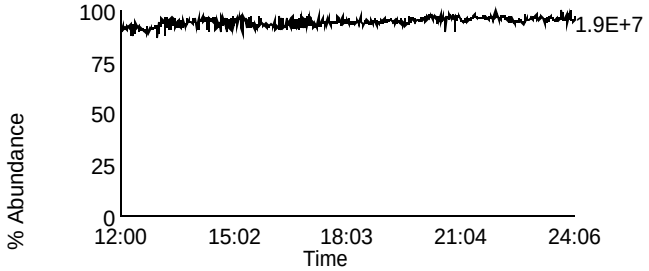
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C14 - 375.8364
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C5 - 318.9792
SAMP 10258392006 - BAL PASI-WI

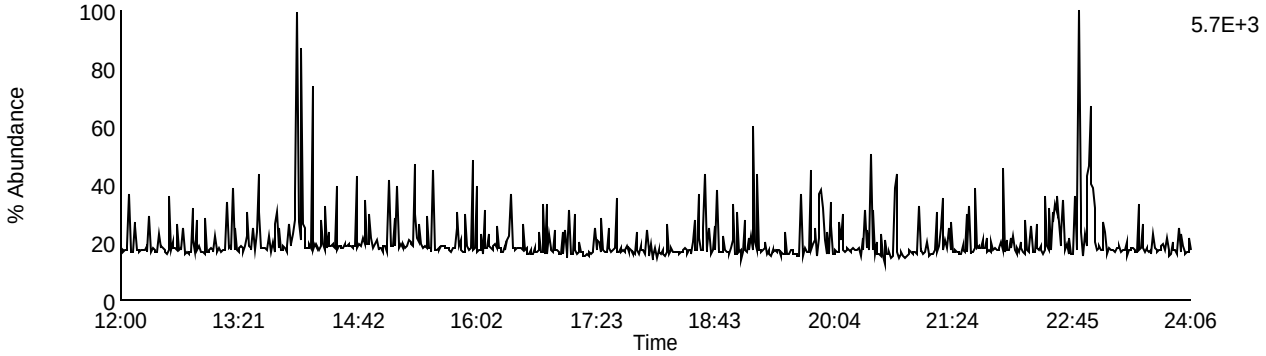


Homologue Group: Penta & Cleanup

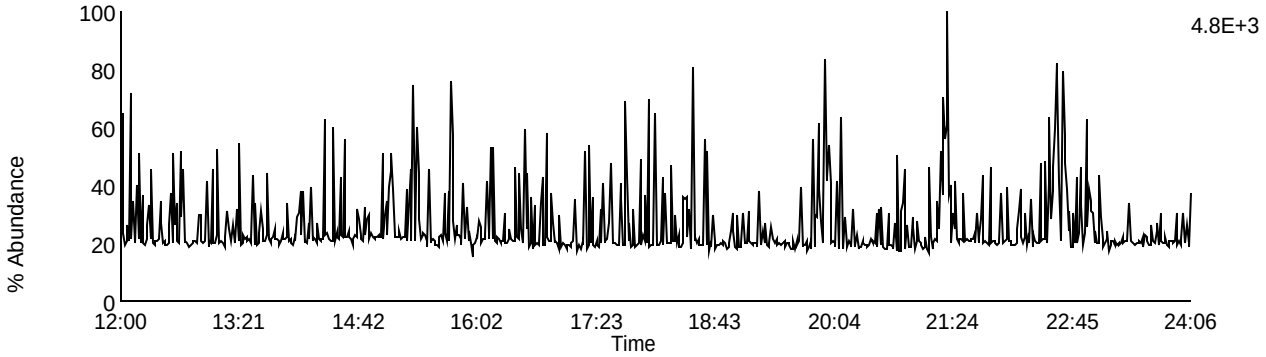
Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

Data File: F140301B_10 G1 C12 - 339.8597
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C13 - 341.8567
SAMP 10258392006 - BAL PASI-WI



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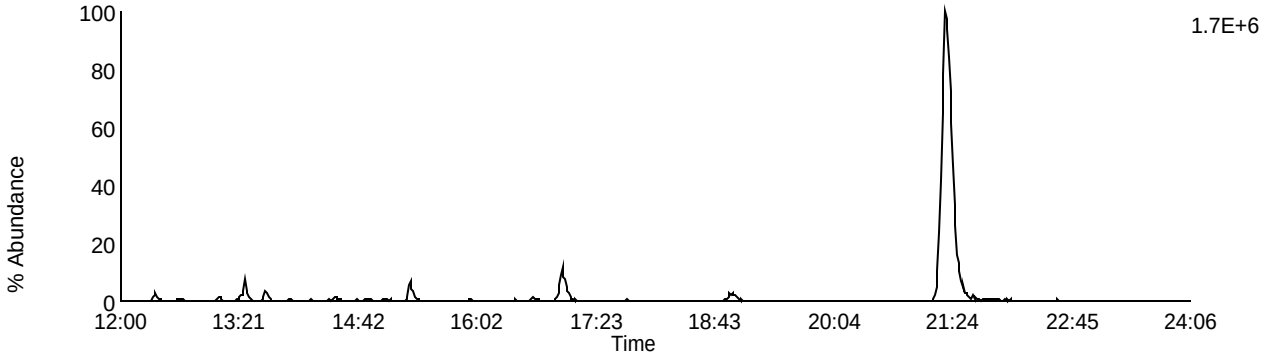
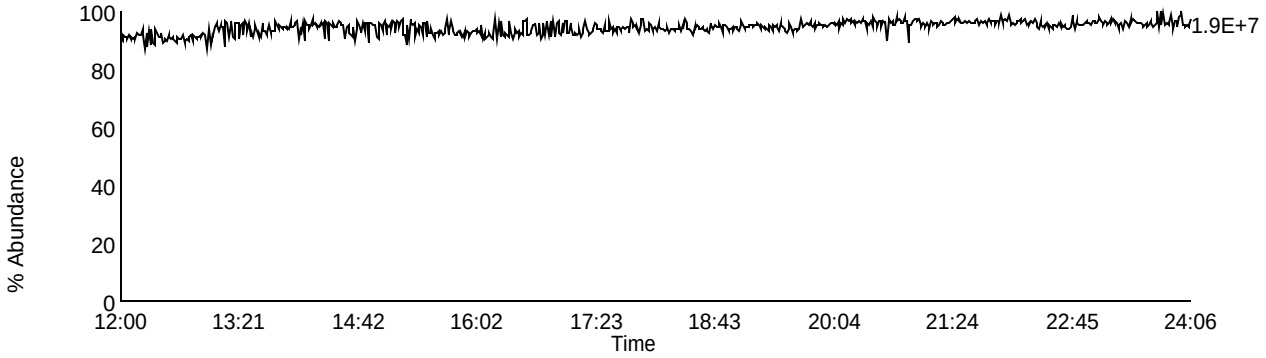
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G1 C5 - 318.9792
SAMP 10258392006 - BAL PASI-WI

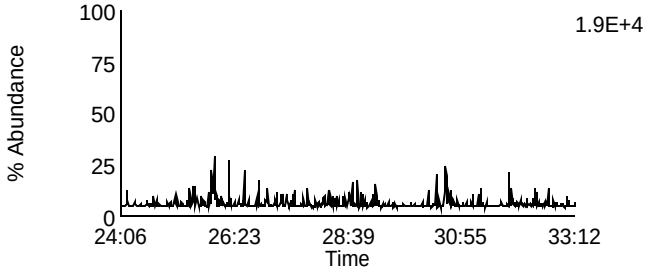


Homologue Group: Pentas

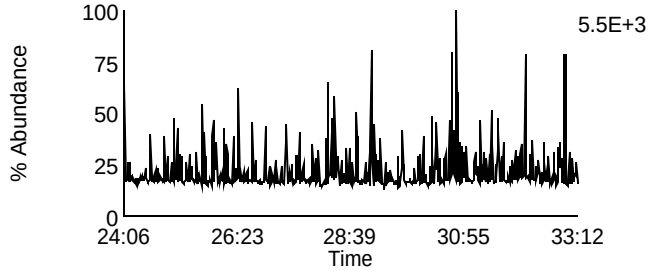
Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

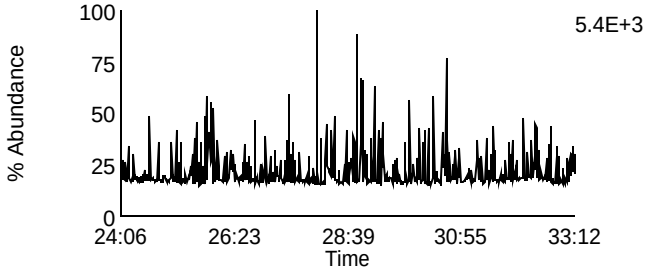
Data File: F140301B_10 G2 C1 - 339.8597
SAMP 10258392006 - BAL PASI-WI



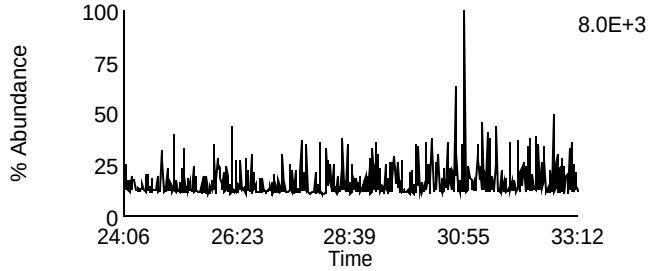
Data File: F140301B_10 G2 C4 - 353.8576
SAMP 10258392006 - BAL PASI-WI



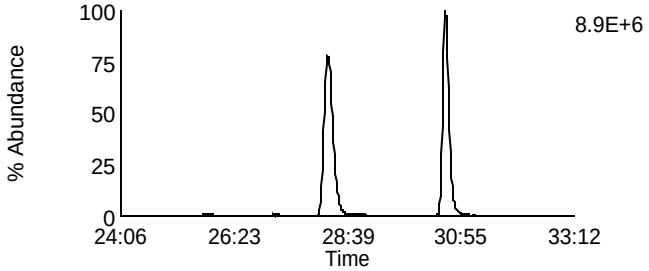
Data File: F140301B_10 G2 C2 - 341.8567
SAMP 10258392006 - BAL PASI-WI



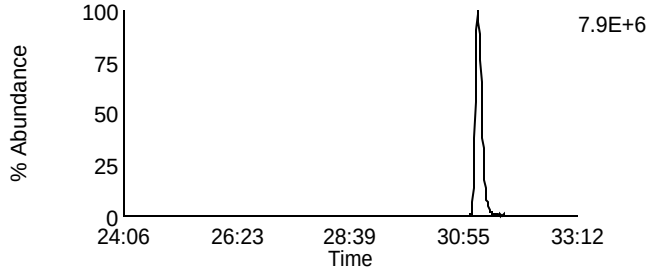
Data File: F140301B_10 G2 C8 - 355.8546
SAMP 10258392006 - BAL PASI-WI



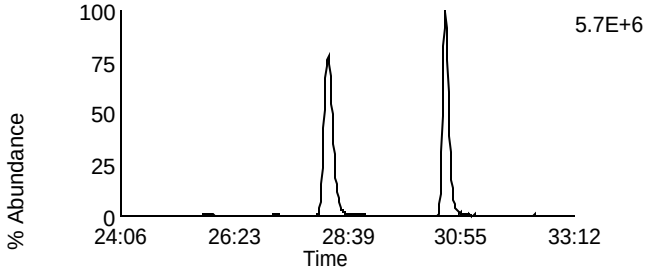
Data File: F140301B_10 G2 C3 - 351.8999
SAMP 10258392006 - BAL PASI-WI



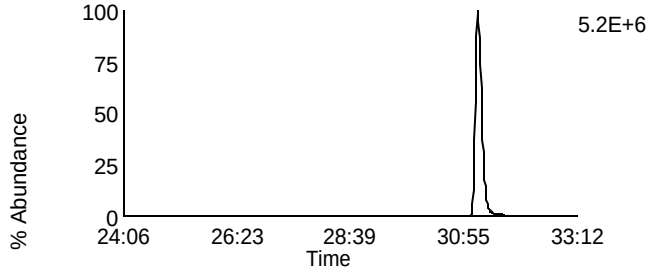
Data File: F140301B_10 G2 C10 - 367.8948
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G2 C5 - 353.8969
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G2 C11 - 369.8918
SAMP 10258392006 - BAL PASI-WI



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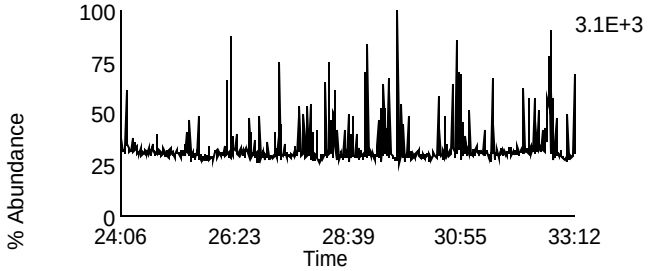
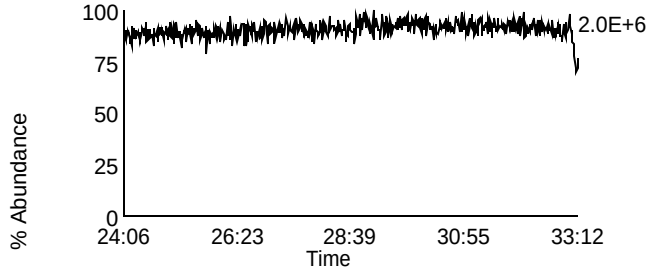
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G2 C6 - 354.9792
SAMP 10258392006 - BAL PASI-WI

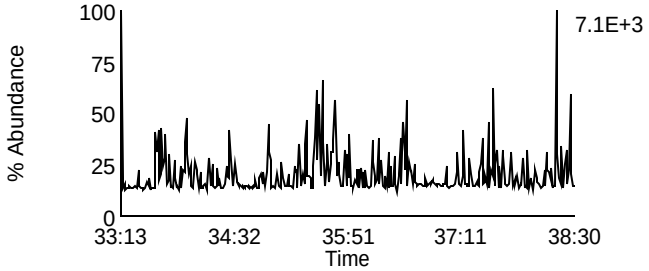


Homologue Group: Hexas

Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

Data File: F140301B_10 G3 C1 - 373.8207
SAMP 10258392006 - BAL PASI-WI



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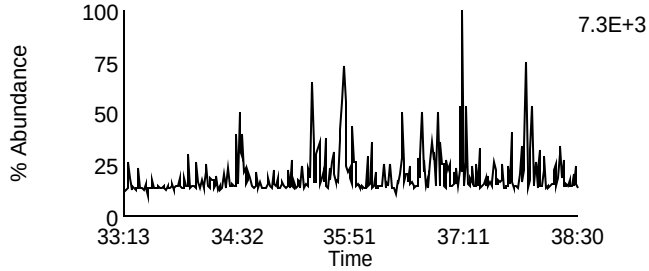
SAMP 10258392006 - BAL PASI-WI



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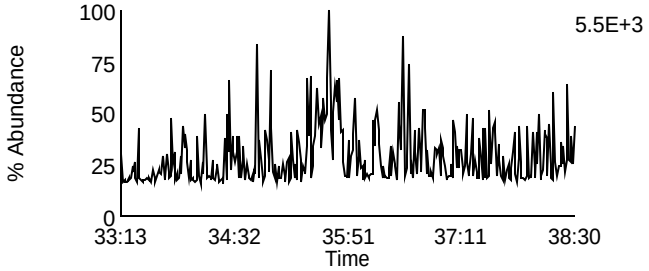
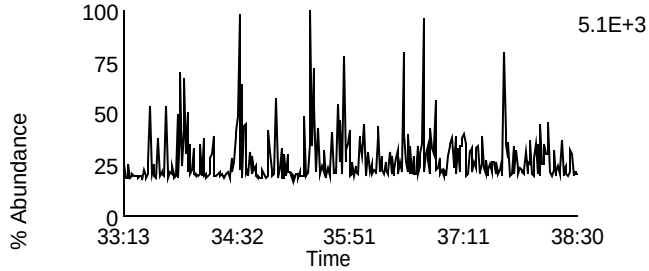
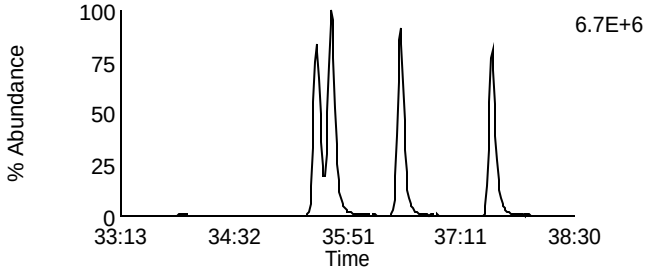
SAMP 10258392006 - BAL PASI-WI



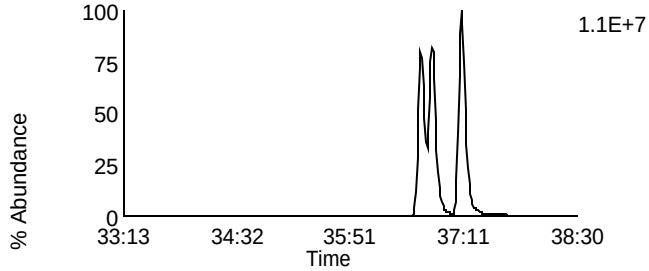
Data File: F140301B_10 G3 C8 - 391.8127
SAMP 10258392006 - BAL PASI-WI



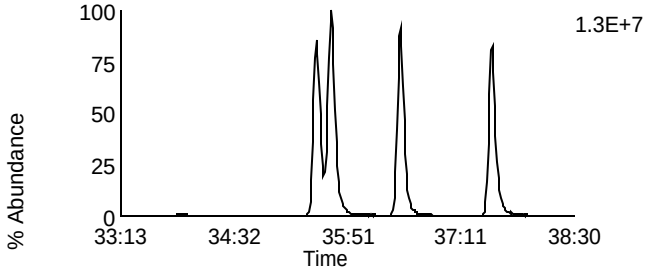
Data File: F140301B_10 G3 C5 - 383.8639
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G3 C9 - 401.8559
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G3 C6 - 385.861
SAMP 10258392006 - BAL PASI-WI



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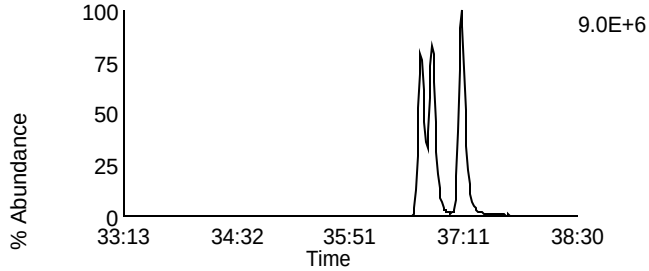
SAMP 10258392006 - BAL PASI-WI



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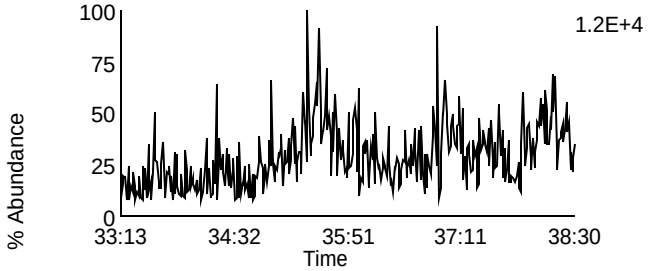
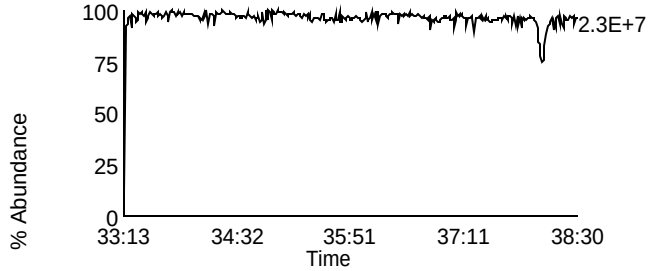
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G3 C3 - 380.976
SAMP 10258392006 - BAL PASI-WI

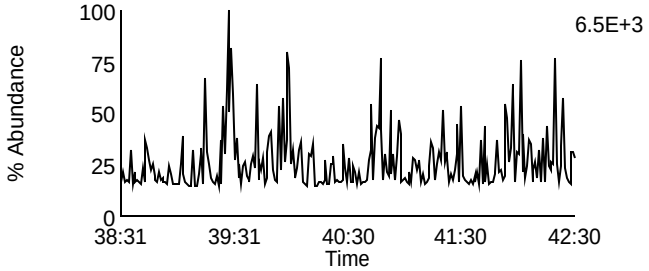


Homologue Group: Heptas

Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

Data File: F140301B_10 G4 C3 - 407.7818
SAMP 10258392006 - BAL PASI-WI



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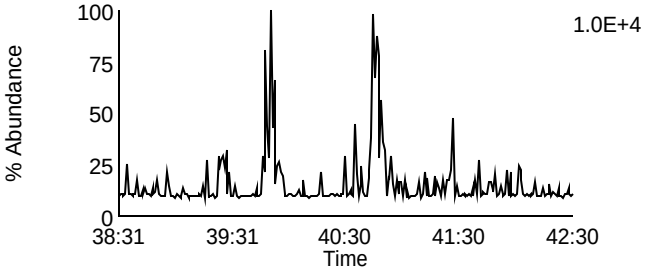
SAMP 10258392006 - BAL PASI-WI



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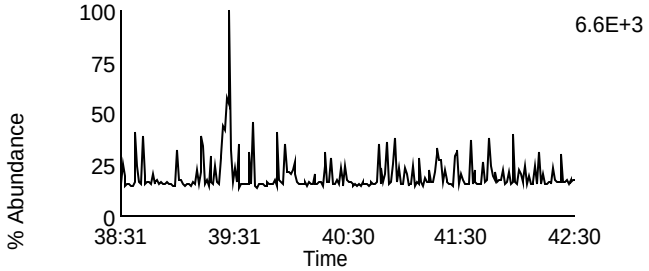
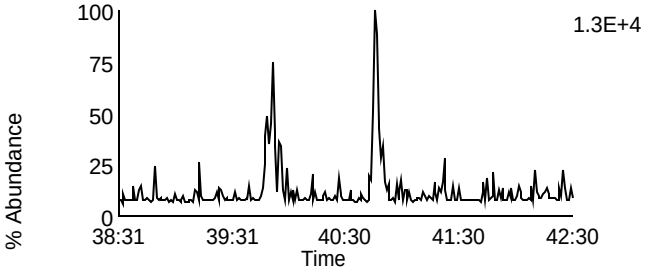
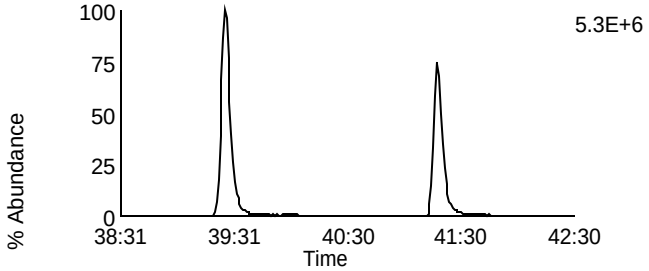
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G4 C9 - 425.7737
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G4 C6 - 417.825
SAMP 10258392006 - BAL PASI-WI



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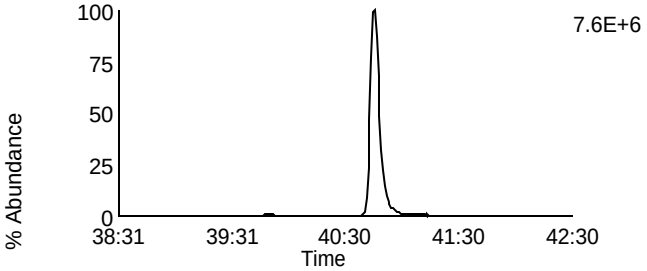
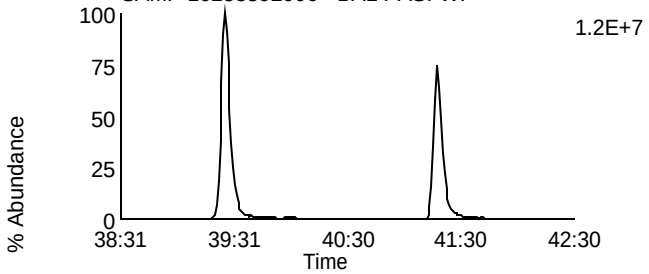
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G4 C7 - 419.822
SAMP 10258392006 - BAL PASI-WI



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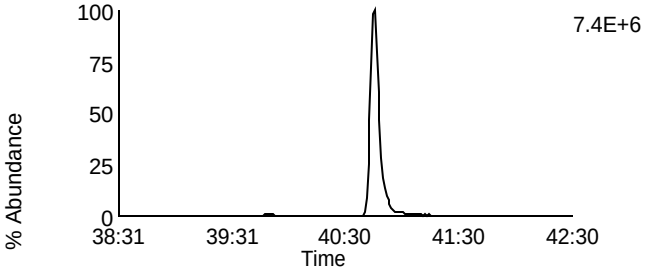
SAMP 10258392006 - BAL PASI-WI



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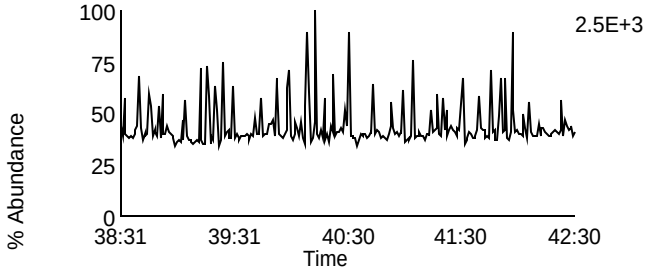
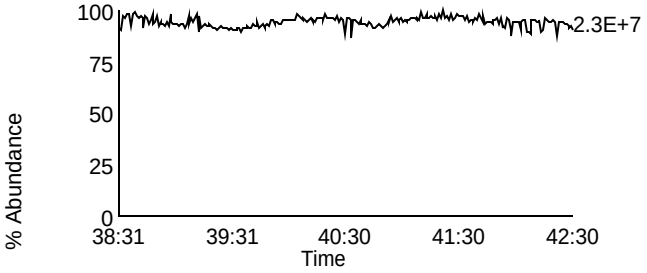
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G4 C1 - 380.976
SAMP 10258392006 - BAL PASI-WI

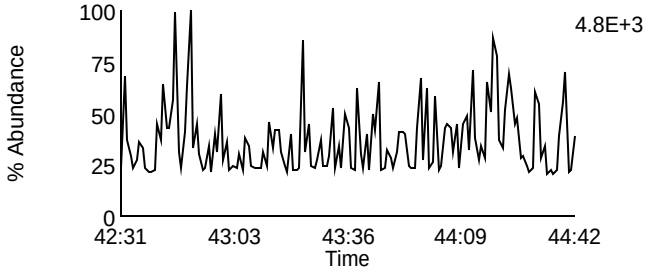


Homologue Group: Octas

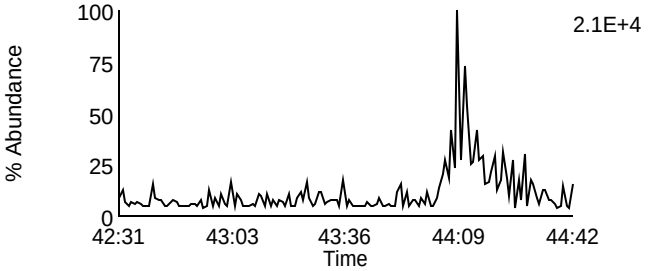
Data File Name: F140301B_10
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392006 - BAL PASI-WI

Lab Sample ID: 10258392006
Client Sample ID: MAK106O
Instrument: 10MSHR05 (F)

Data File: F140301B_10 G5 C4 - 441.7428
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G5 C8 - 457.7377
SAMP 10258392006 - BAL PASI-WI



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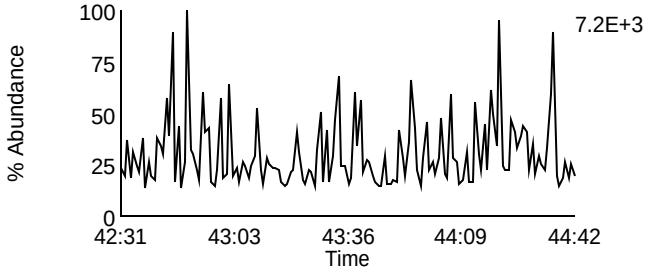
SAMP 10258392006 - BAL PASI-WI



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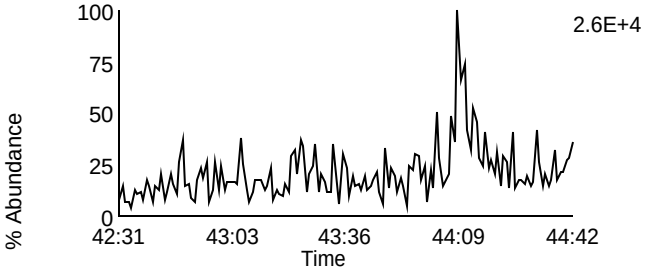
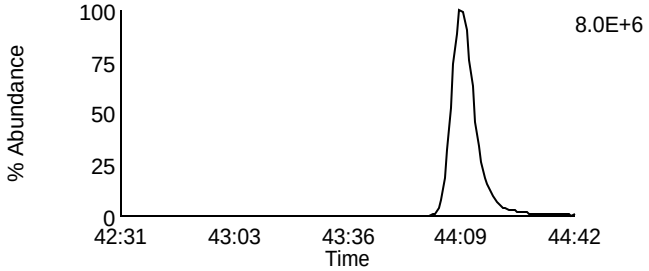
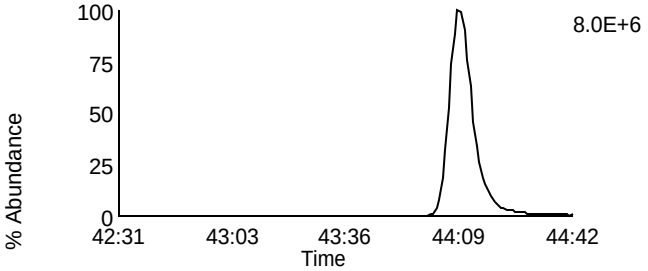
SAMP 10258392006 - BAL PASI-WI



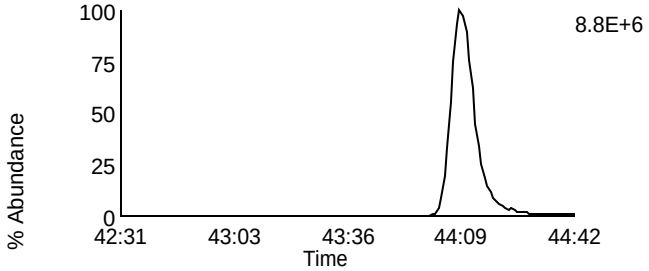
Data File: F140301B_10 G5 C11 - 469.7779
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G5 C11 - 469.7779
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G5 C12 - 471.7749
SAMP 10258392006 - BAL PASI-WI



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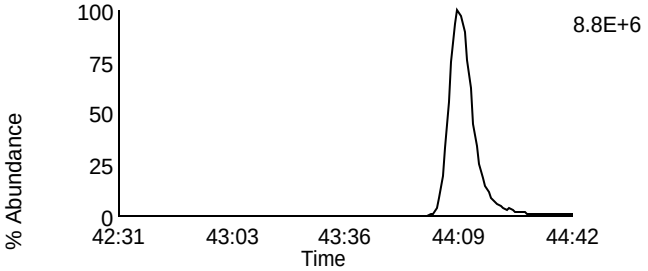
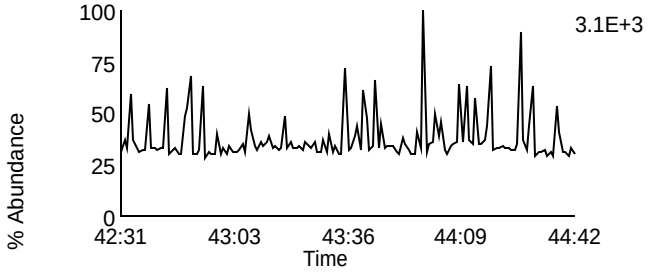
SAMP 10258392006 - BAL PASI-WI



Data File: F140301B_10 G5 C13 - 513.6775
SAMP 10258392006 - BAL PASI-WI



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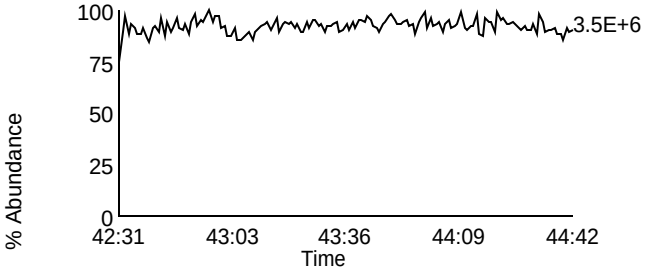
SAMP 10258392006 - BAL PASI-WI

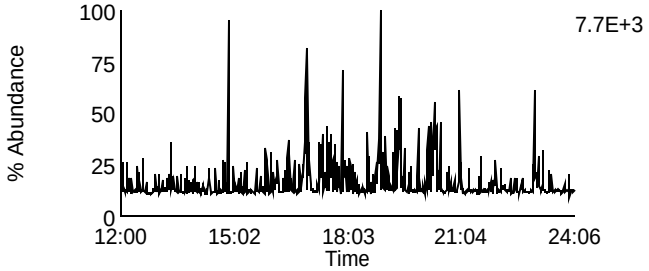


Homologue Group: Tetras

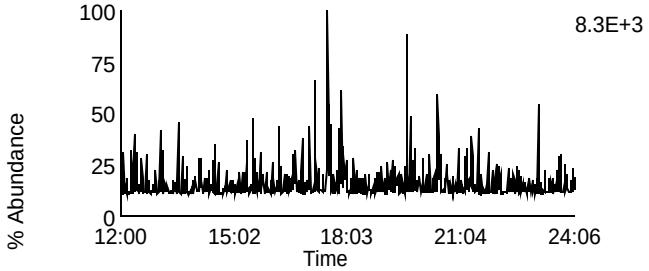
Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

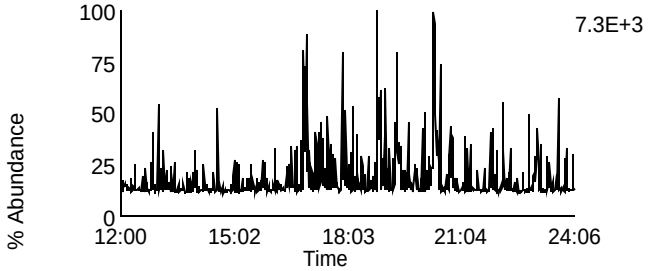
Data File: F140301B_11 G1 C1 - 303.9016
SAMP 10258392007 - BAL PASI-WI



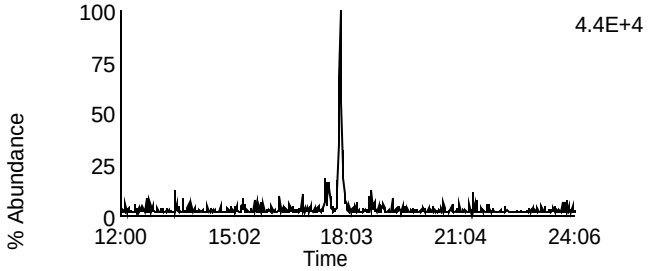
Data File: F140301B_11 G1 C7 - 319.8965
SAMP 10258392007 - BAL PASI-WI



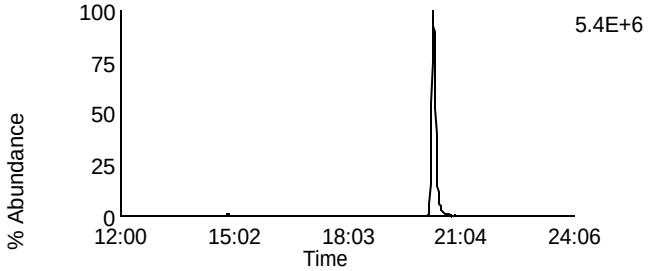
Data File: F140301B_11 G1 C2 - 305.8987
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C8 - 321.8936
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C3 - 315.9418
SAMP 10258392007 - BAL PASI-WI



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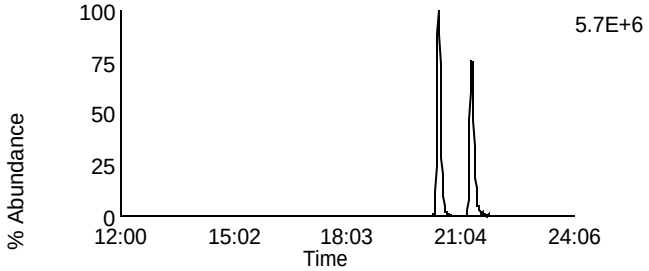
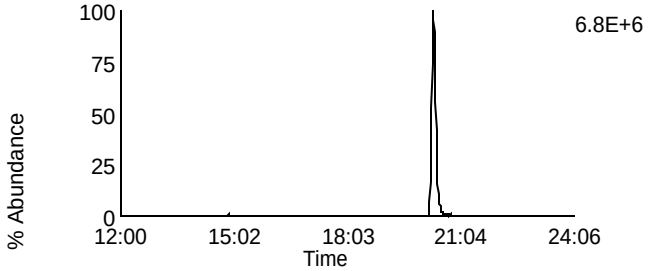
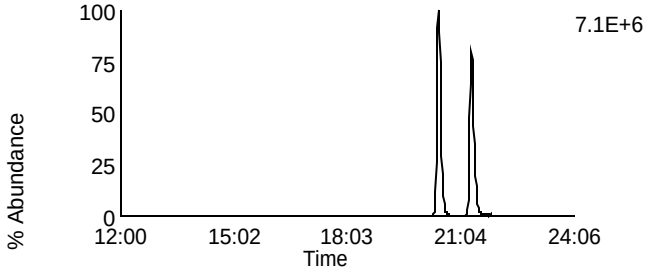
SAMP 10258392007 - BAL PASI-WI



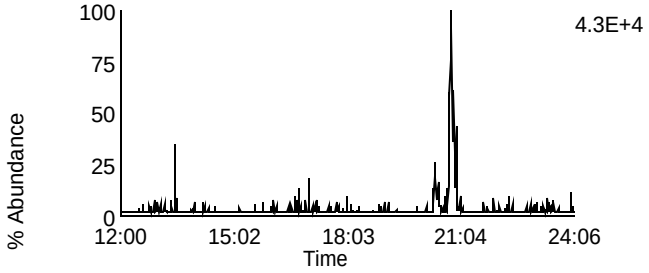
Data File: F140301B_11 G1 C4 - 317.9389
SAMP 10258392007 - BAL PASI-WI



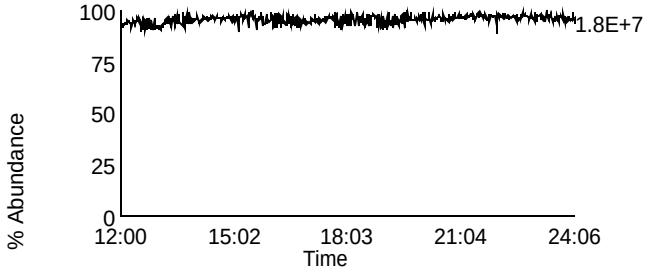
Data File: F140301B_11 G1 C11 - 333.9338
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C14 - 375.8364
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C5 - 318.9792
SAMP 10258392007 - BAL PASI-WI

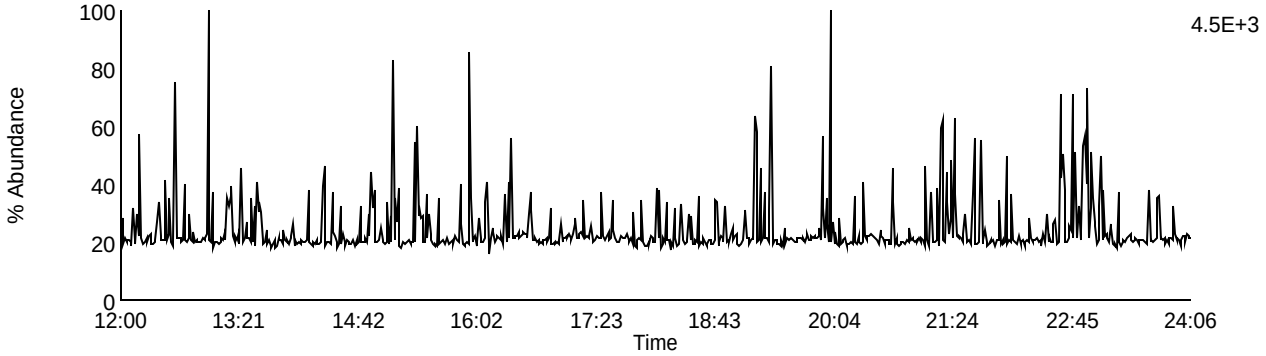


Homologue Group: Penta & Cleanup

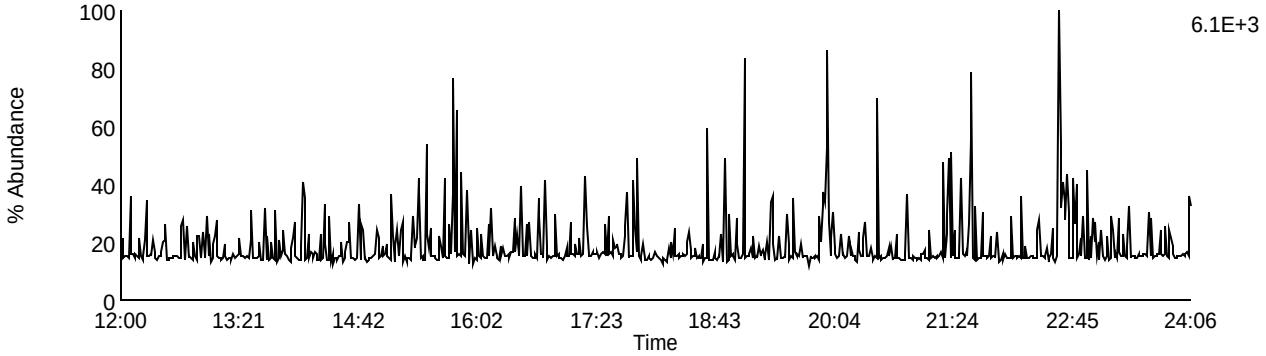
Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

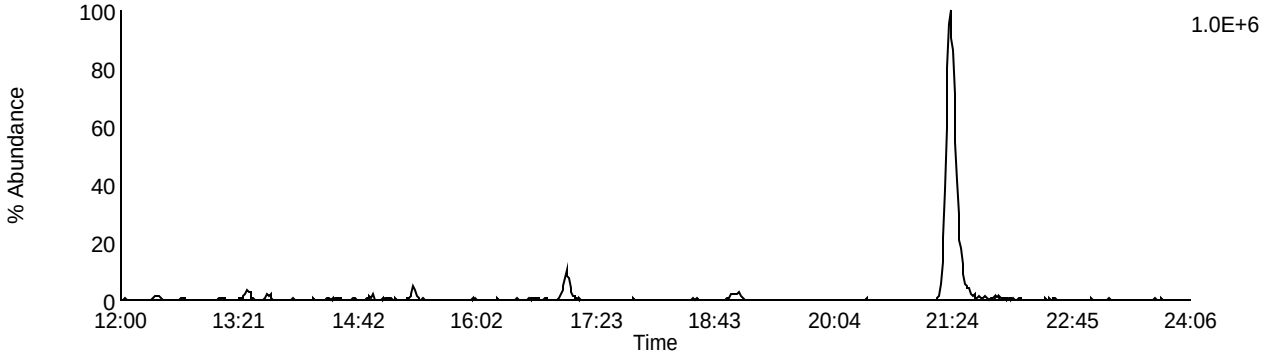
Data File: F140301B_11 G1 C12 - 339.8597
SAMP 10258392007 - BAL PASI-WI



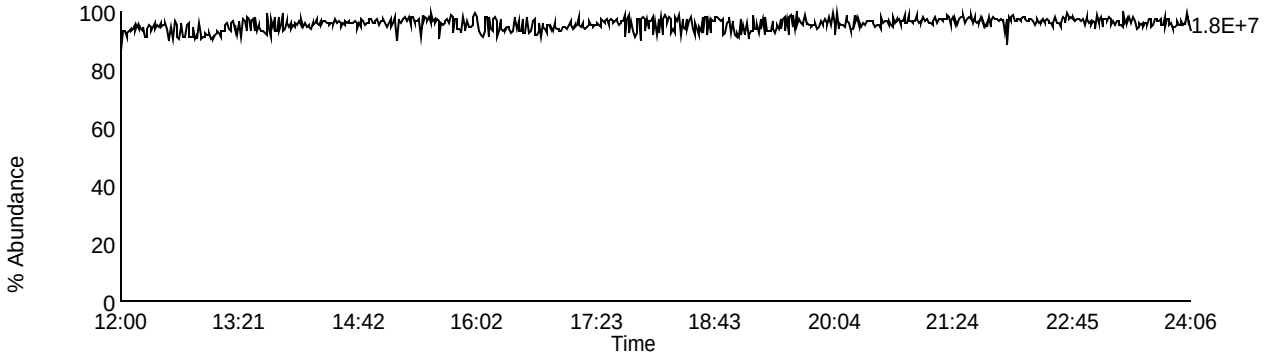
Data File: F140301B_11 G1 C13 - 341.8567
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C9 - 327.8847
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G1 C5 - 318.9792
SAMP 10258392007 - BAL PASI-WI

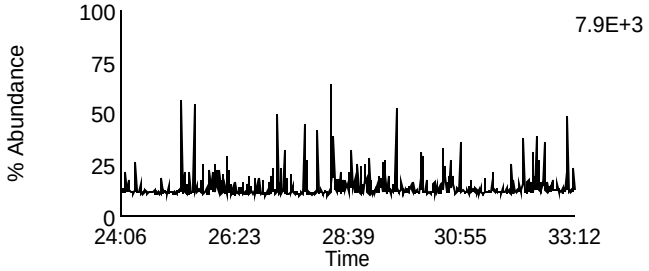


Homologue Group: Pentas

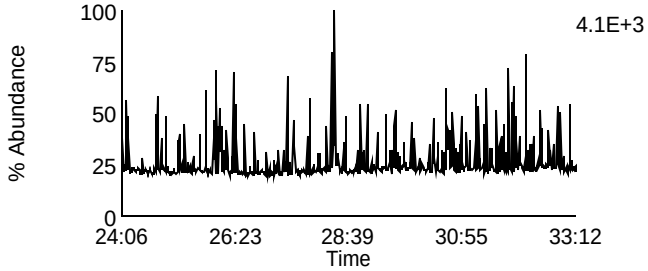
Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

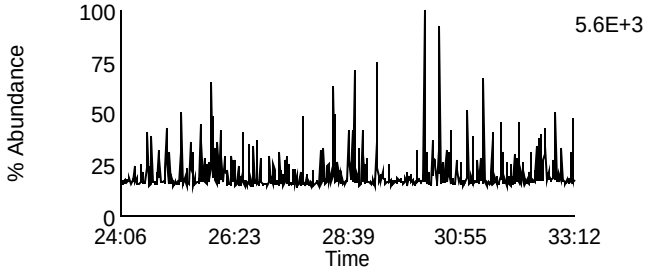
Data File: F140301B_11 G2 C1 - 339.8597
SAMP 10258392007 - BAL PASI-WI



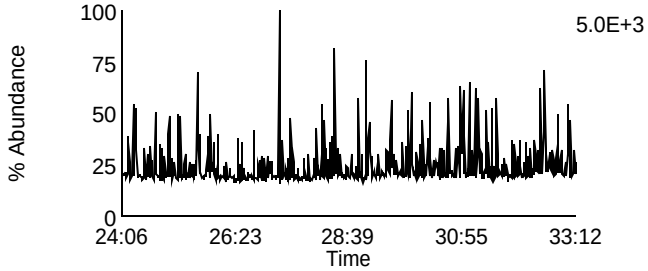
Data File: F140301B_11 G2 C4 - 353.8576
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G2 C2 - 341.8567
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G2 C8 - 355.8546
SAMP 10258392007 - BAL PASI-WI



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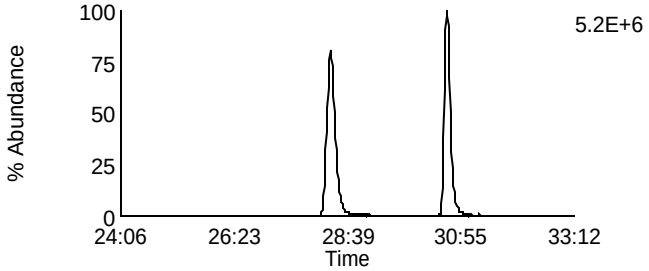
SAMP 10258392007 - BAL PASI-WI



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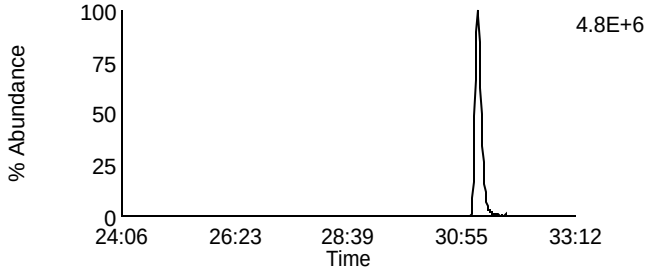
SAMP 10258392007 - BAL PASI-WI



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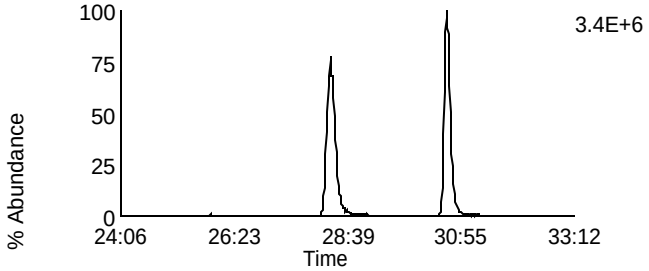
SAMP 10258392007 - BAL PASI-WI



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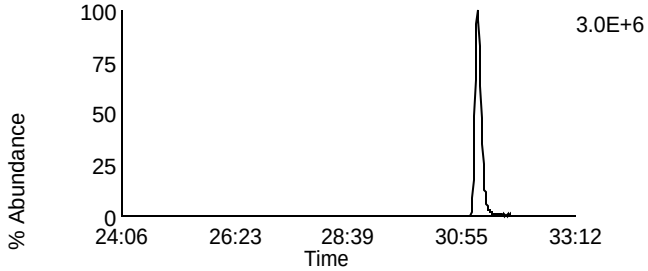
SAMP 10258392007 - BAL PASI-WI



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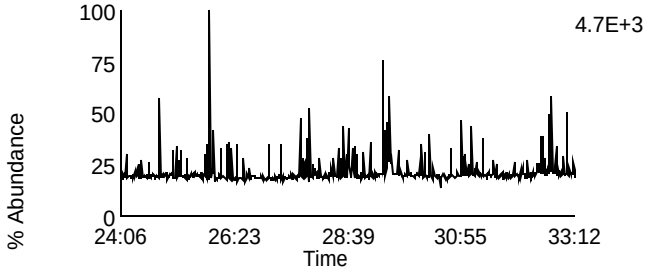
SAMP 10258392007 - BAL PASI-WI



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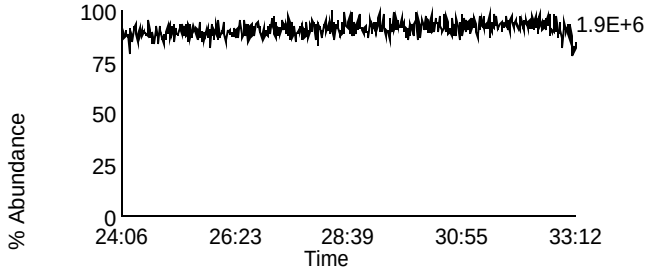
SAMP 10258392007 - BAL PASI-WI

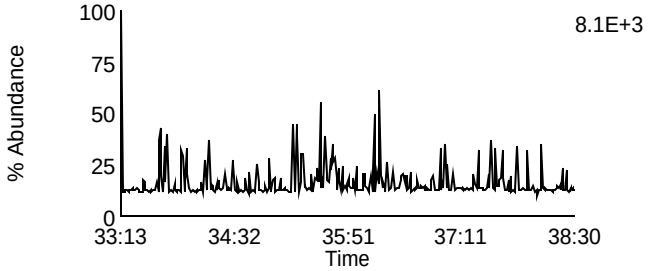


Homologue Group: Hexas

Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

Data File: F140301B_11 G3 C1 - 373.8207
SAMP 10258392007 - BAL PASI-WI



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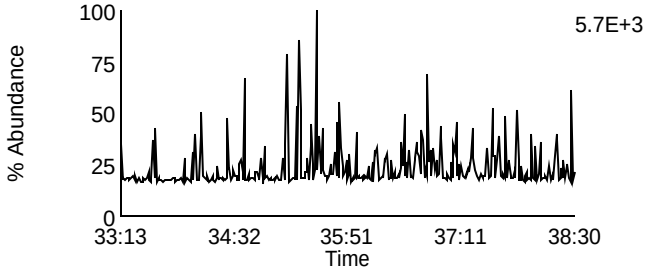
SAMP 10258392007 - BAL PASI-WI



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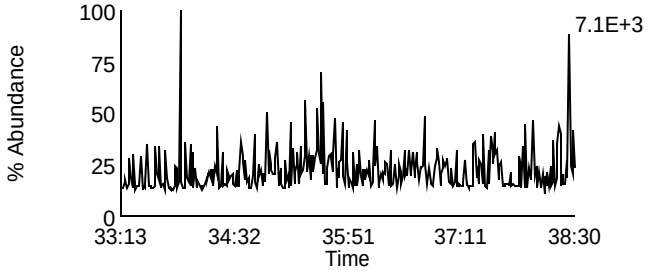
SAMP 10258392007 - BAL PASI-WI



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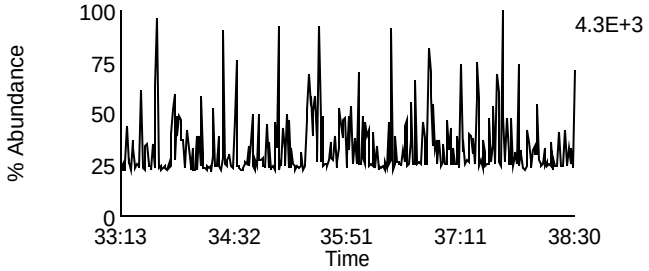
SAMP 10258392007 - BAL PASI-WI



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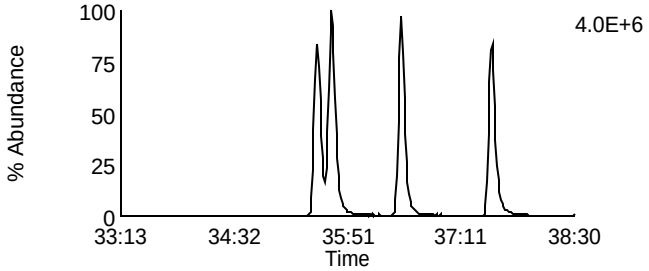
SAMP 10258392007 - BAL PASI-WI



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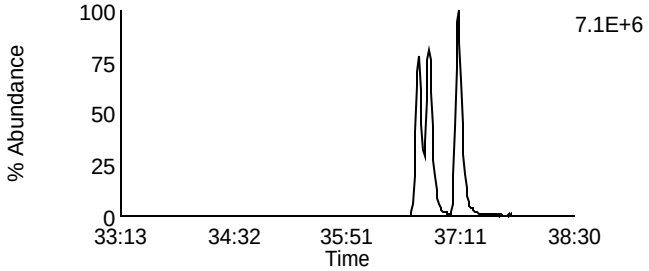
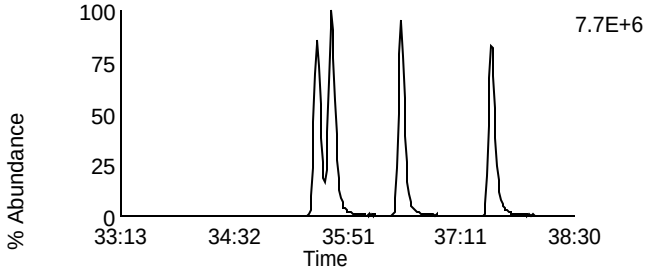
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G3 C6 - 385.861
SAMP 10258392007 - BAL PASI-WI



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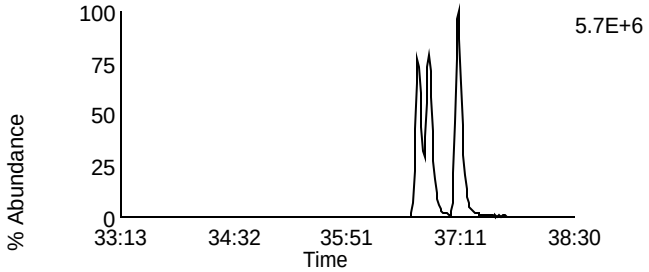
SAMP 10258392007 - BAL PASI-WI



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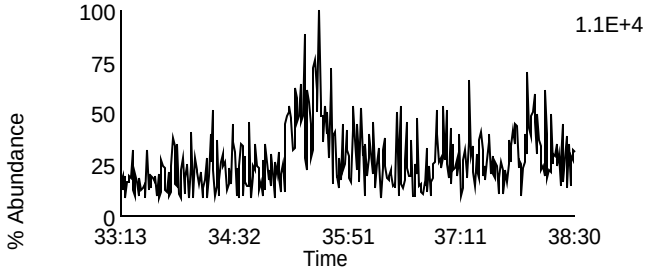
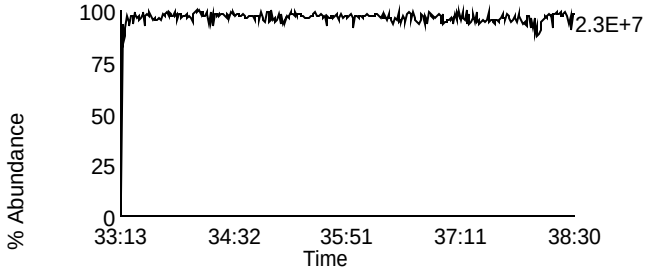
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G3 C3 - 380.976
SAMP 10258392007 - BAL PASI-WI

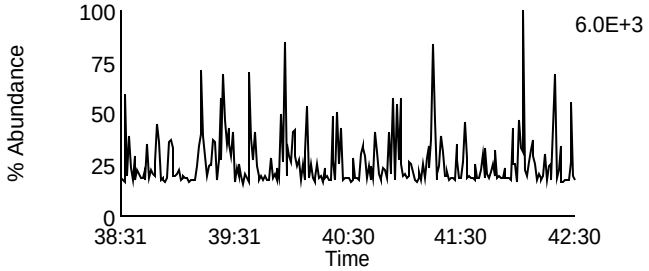


Homologue Group: Heptas

Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

Data File: F140301B_11 G4 C3 - 407.7818
SAMP 10258392007 - BAL PASI-WI



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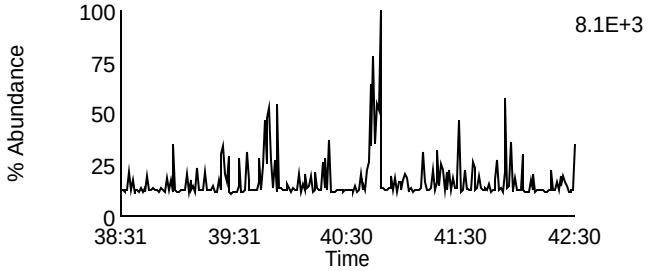

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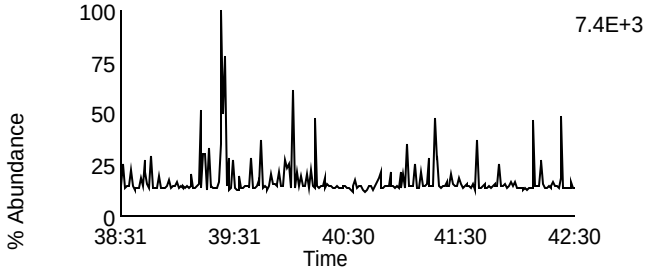
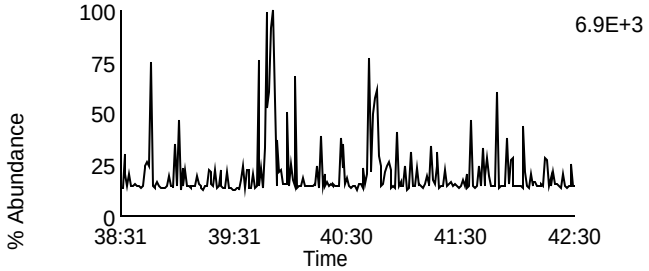
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G4 C9 - 425.7737
SAMP 10258392007 - BAL PASI-WI



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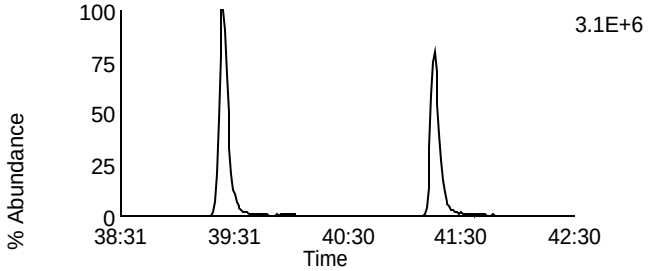
SAMP 10258392007 - BAL PASI-WI



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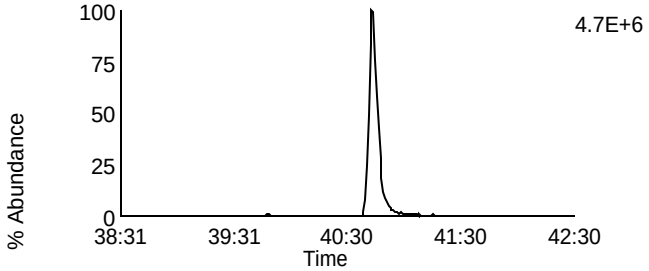
SAMP 10258392007 - BAL PASI-WI



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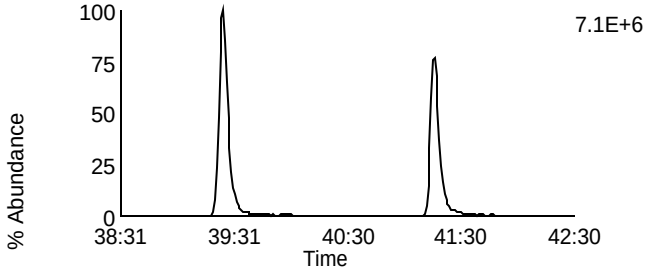
SAMP 10258392007 - BAL PASI-WI



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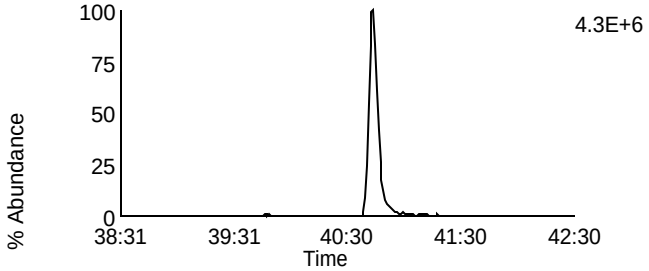

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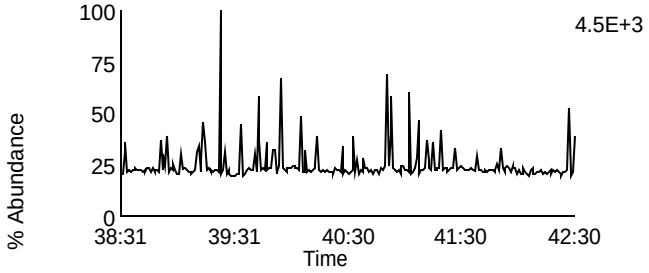
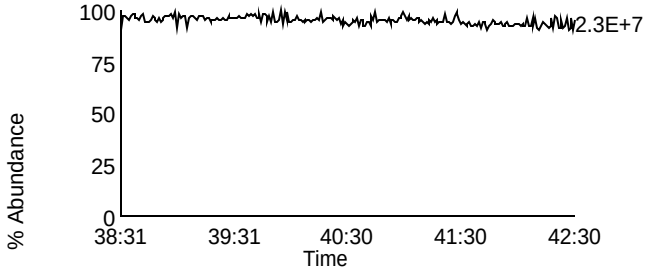
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G4 C1 - 380.976
SAMP 10258392007 - BAL PASI-WI

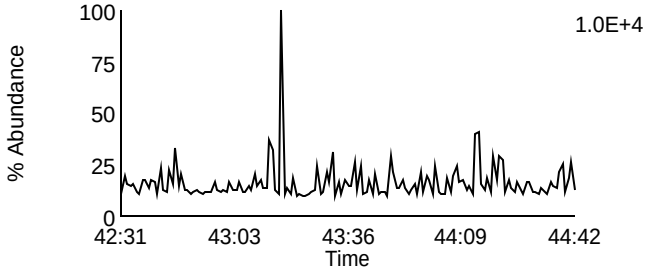


Homologue Group: Octas

Data File Name: F140301B_11
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392007 - BAL PASI-WI

Lab Sample ID: 10258392007
Client Sample ID: MAK107O
Instrument: 10MSHR05 (F)

Data File: F140301B_11 G5 C4 - 441.7428
SAMP 10258392007 - BAL PASI-WI



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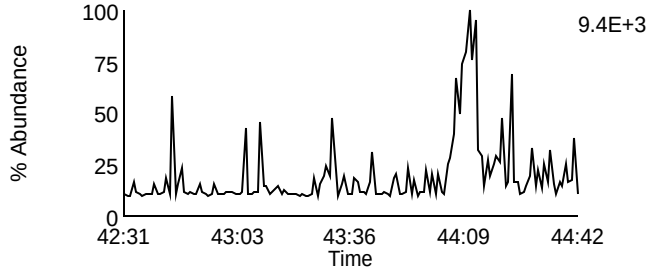
SAMP 10258392007 - BAL PASI-WI



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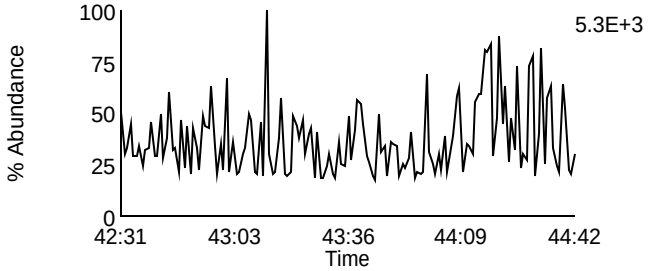
SAMP 10258392007 - BAL PASI-WI



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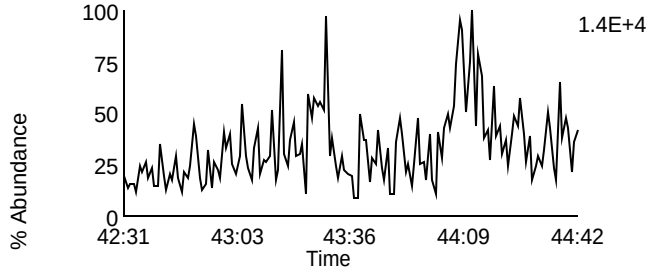
SAMP 10258392007 - BAL PASI-WI



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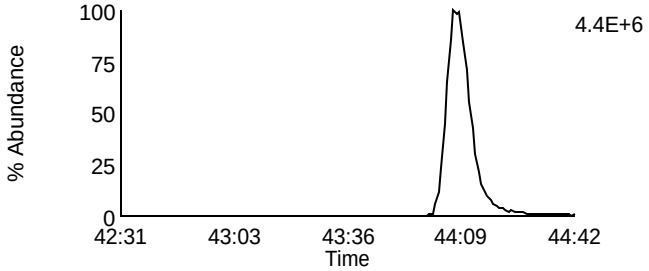
SAMP 10258392007 - BAL PASI-WI



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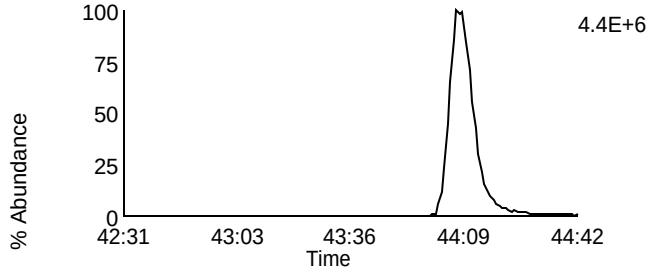
SAMP 10258392007 - BAL PASI-WI



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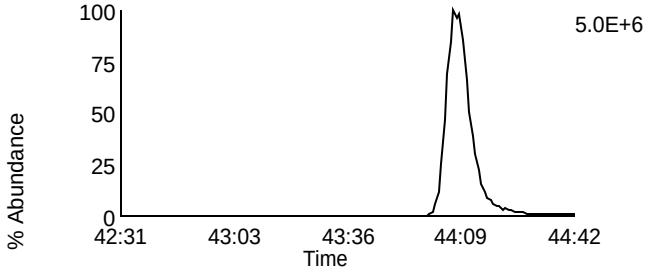
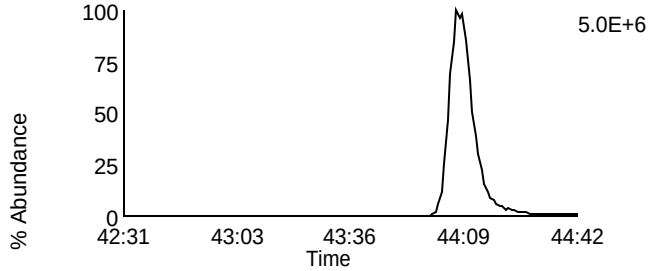
SAMP 10258392007 - BAL PASI-WI



Data File: F140301B_11 G5 C12 - 471.7749
SAMP 10258392007 - BAL PASI-WI



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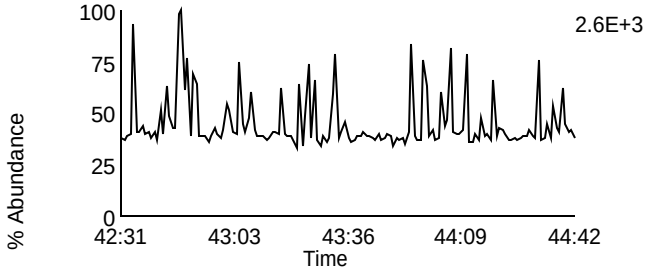
SAMP 10258392007 - BAL PASI-WI



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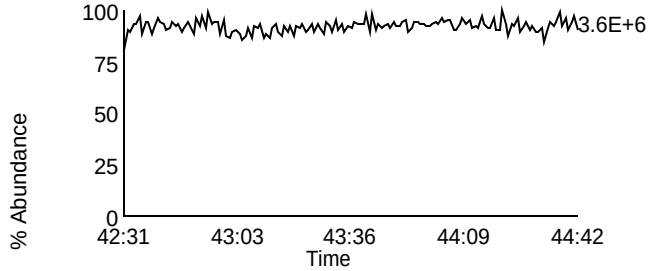
SAMP 10258392007 - BAL PASI-WI

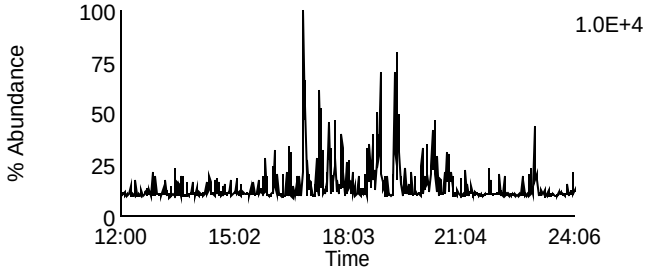


Homologue Group: Tetras

Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

Data File: F140301B_12 G1 C1 - 303.9016
SAMP 10258392008 - BAL PASI-WI



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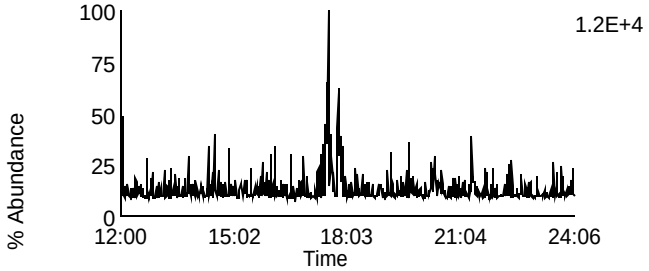
SAMP 10258392008 - BAL PASI-WI



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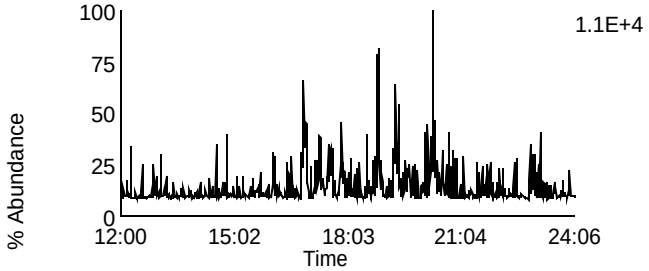
SAMP 10258392008 - BAL PASI-WI



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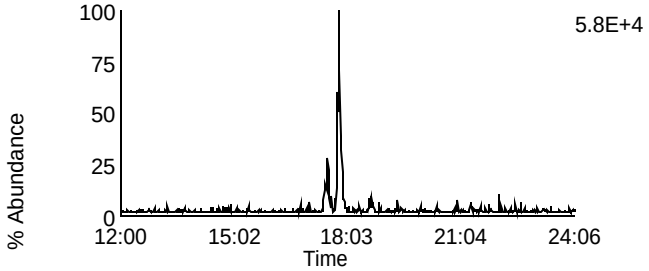
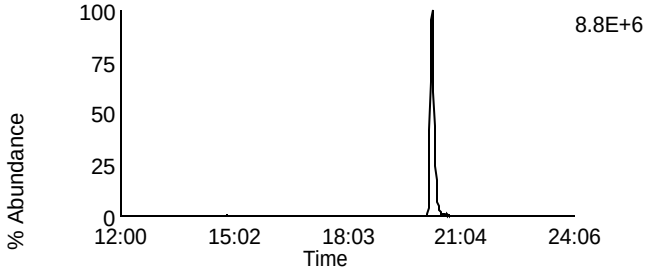
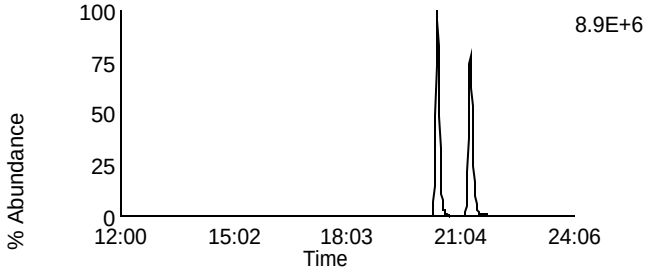
SAMP 10258392008 - BAL PASI-WI



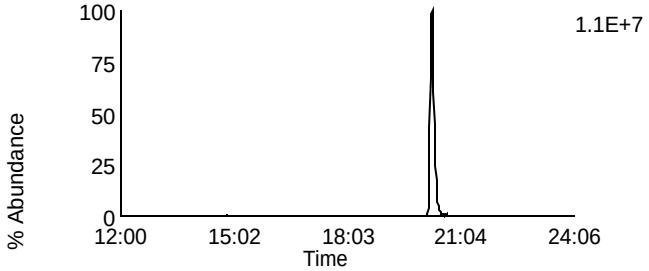
Data File: F140301B_12 G1 C3 - 315.9418
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C10 - 331.9367
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C4 - 317.9389
SAMP 10258392008 - BAL PASI-WI



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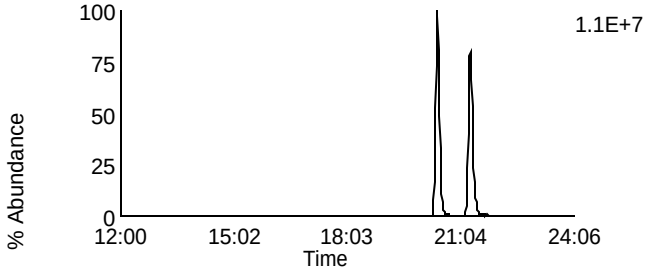
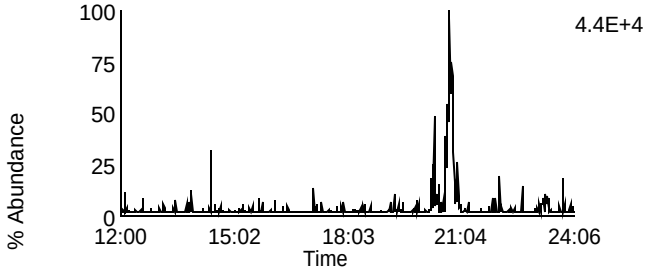
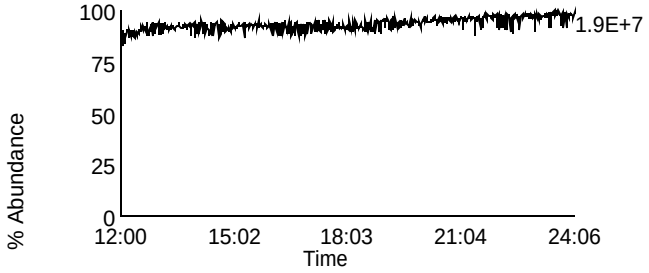
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C14 - 375.8364
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C5 - 318.9792
SAMP 10258392008 - BAL PASI-WI

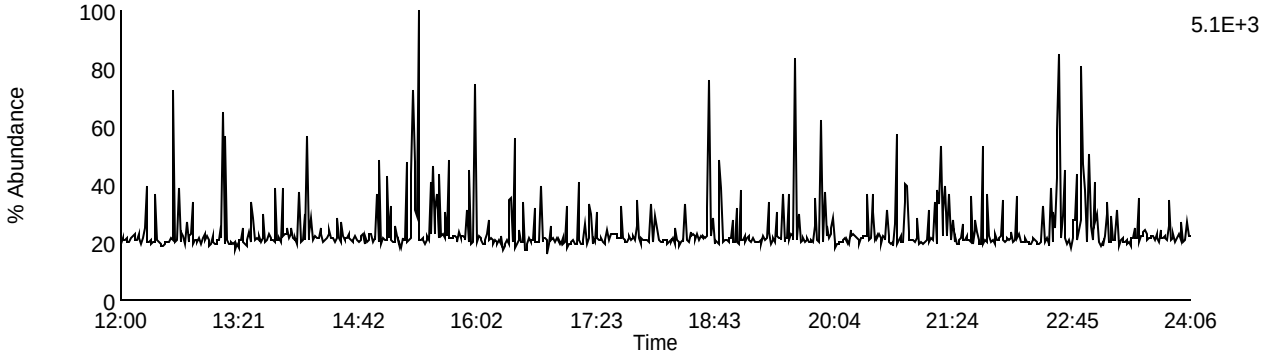


Homologue Group: Penta & Cleanup

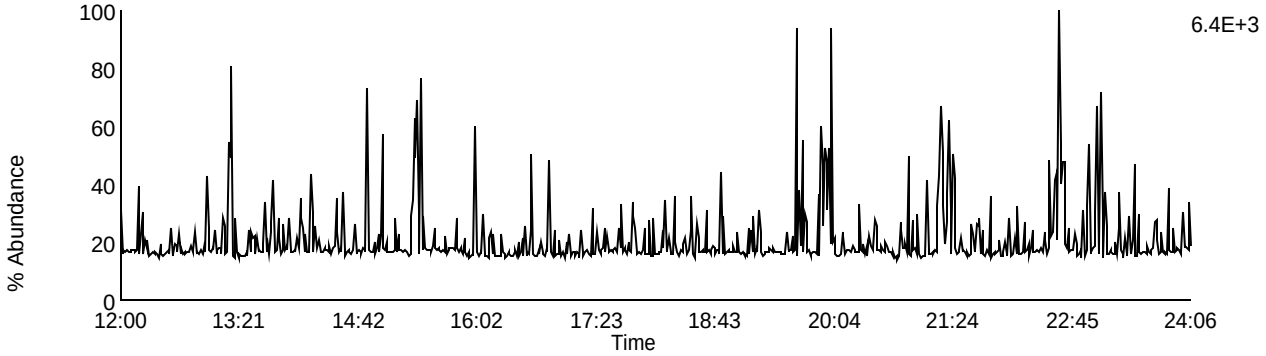
Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

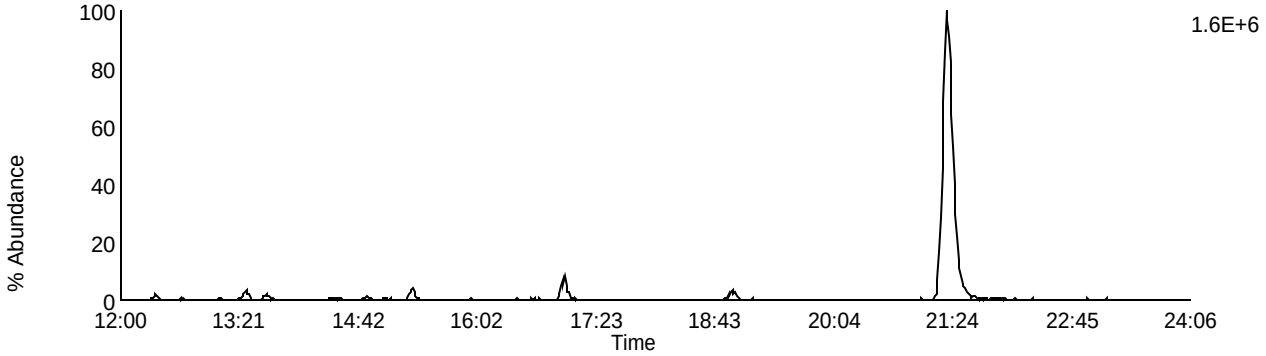
Data File: F140301B_12 G1 C12 - 339.8597
SAMP 10258392008 - BAL PASI-WI



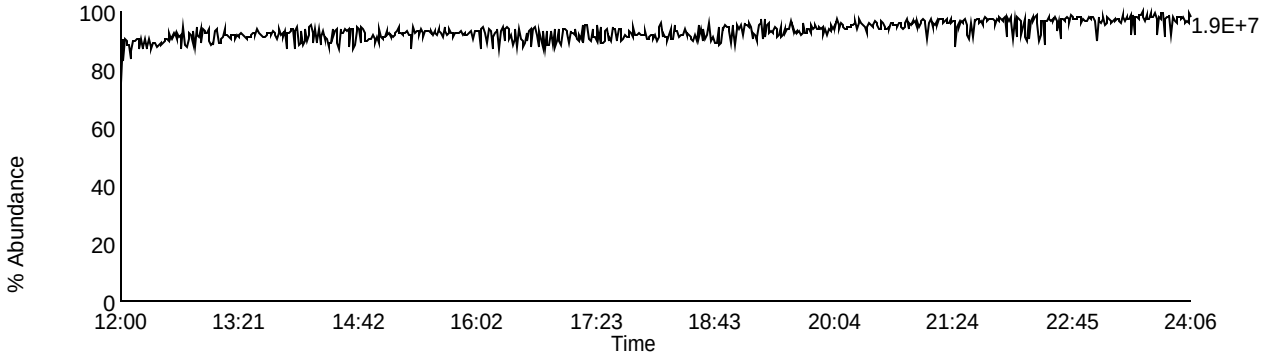
Data File: F140301B_12 G1 C13 - 341.8567
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C9 - 327.8847
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G1 C5 - 318.9792
SAMP 10258392008 - BAL PASI-WI

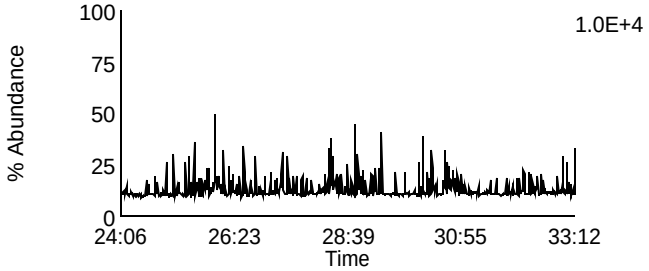


Homologue Group: Pentas

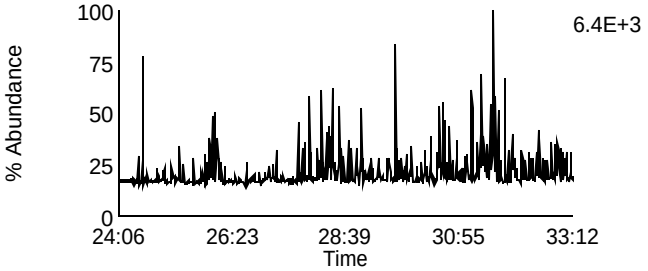
Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

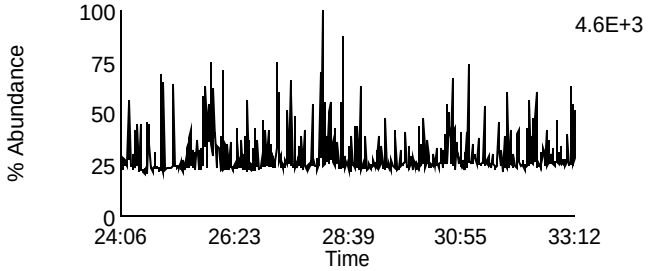
Data File: F140301B_12 G2 C1 - 339.8597
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G2 C4 - 353.8576
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G2 C2 - 341.8567
SAMP 10258392008 - BAL PASI-WI



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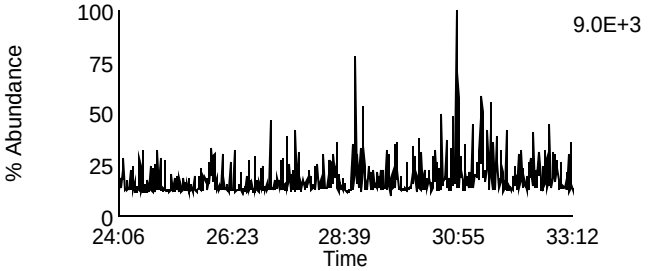
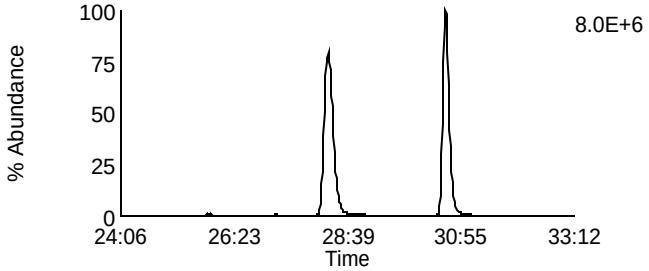
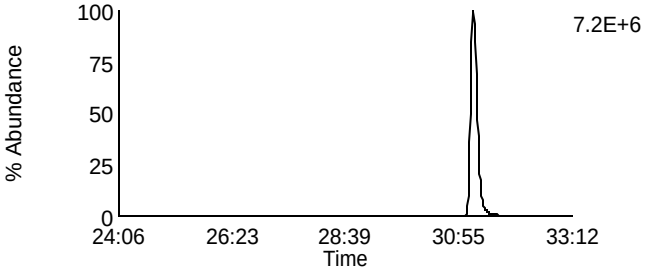
SAMP 10258392008 - BAL PASI-WI



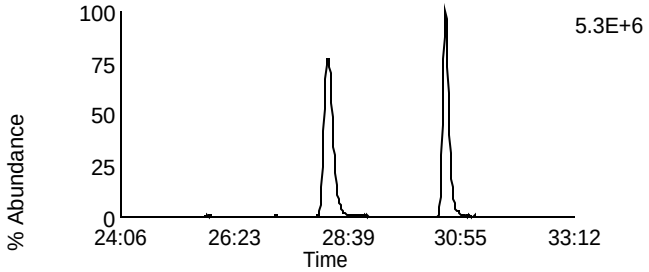
Data File: F140301B_12 G2 C3 - 351.8999
SAMP 10258392008 - BAL PASI-WI



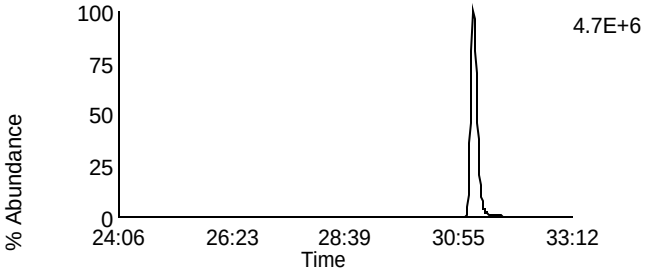
Data File: F140301B_12 G2 C10 - 367.8948
SAMP 10258392008 - BAL PASI-WI



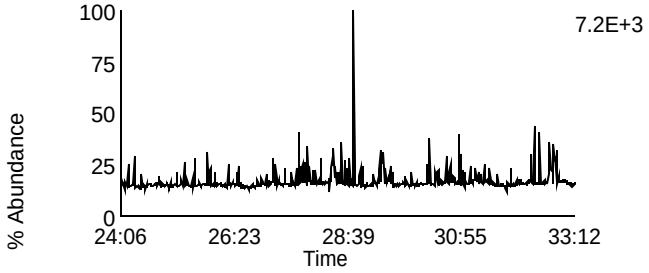
Data File: F140301B_12 G2 C5 - 353.8969
SAMP 10258392008 - BAL PASI-WI



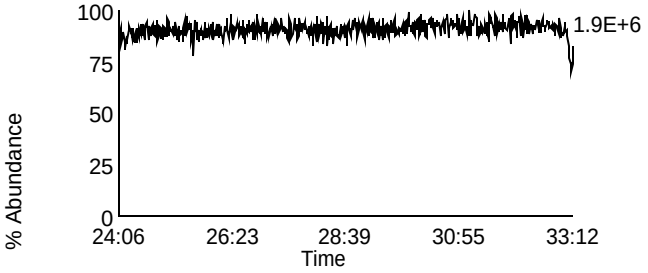
Data File: F140301B_12 G2 C11 - 369.8918
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G2 C12 - 409.7974
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G2 C6 - 354.9792
SAMP 10258392008 - BAL PASI-WI

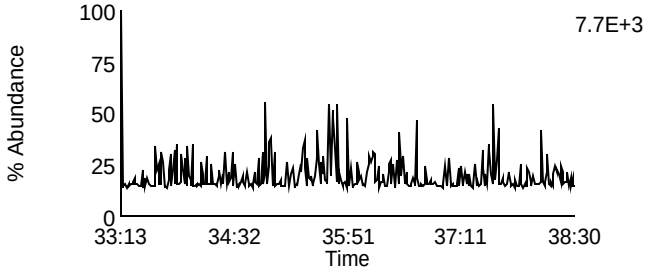


Homologue Group: Hexas

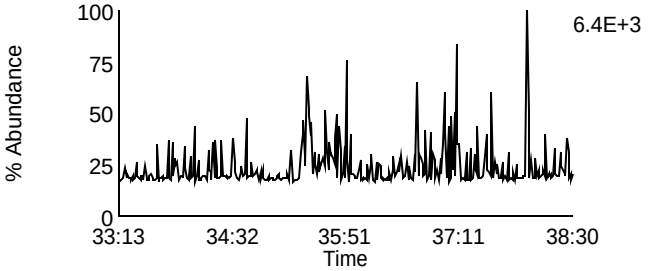
Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

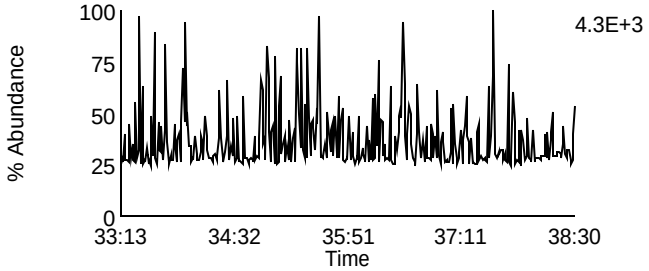
Data File: F140301B_12 G3 C1 - 373.8207
SAMP 10258392008 - BAL PASI-WI



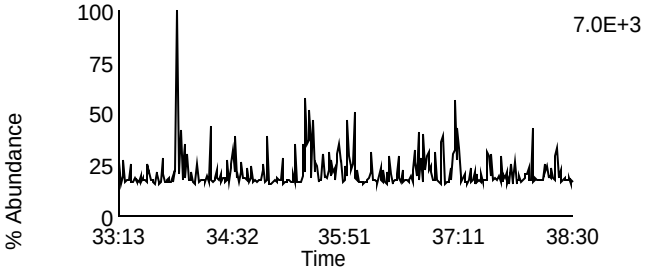
Data File: F140301B_12 G3 C7 - 389.8156
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G3 C2 - 375.8178
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G3 C8 - 391.8127
SAMP 10258392008 - BAL PASI-WI



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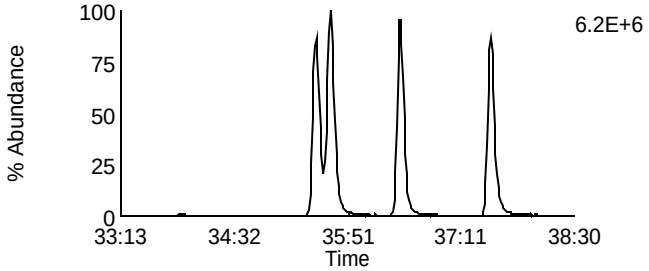
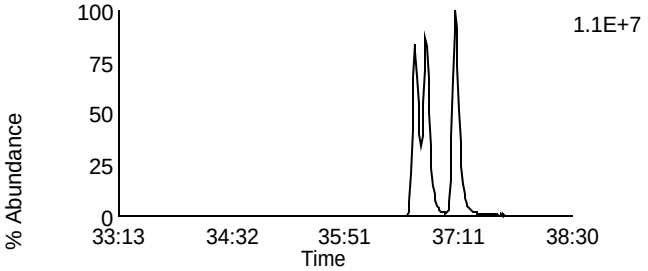
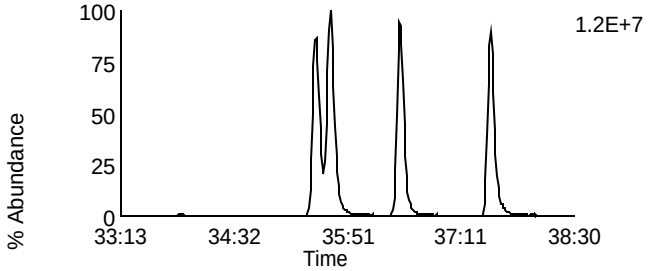
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G3 C9 - 401.8559
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G3 C6 - 385.861
SAMP 10258392008 - BAL PASI-WI



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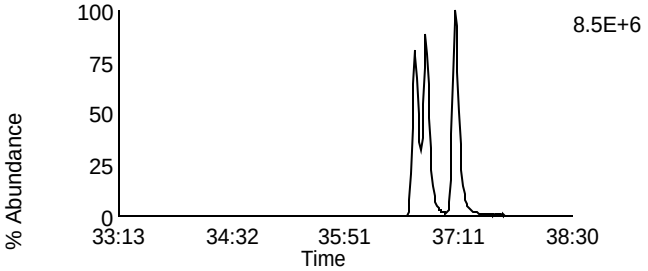
SAMP 10258392008 - BAL PASI-WI



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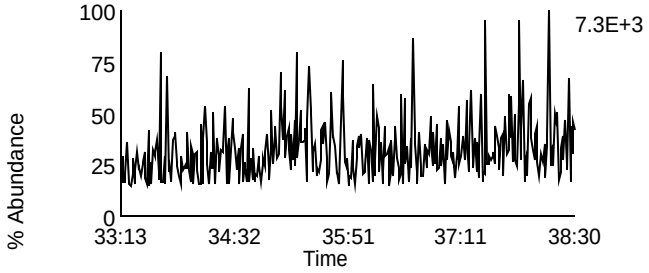
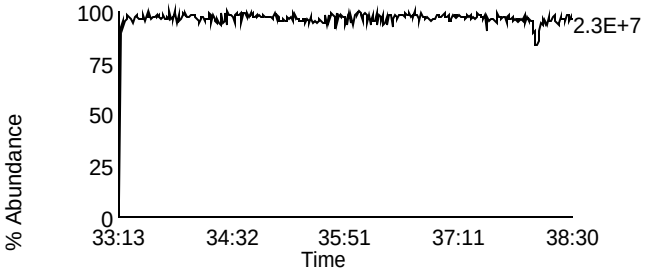
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G3 C3 - 380.976
SAMP 10258392008 - BAL PASI-WI

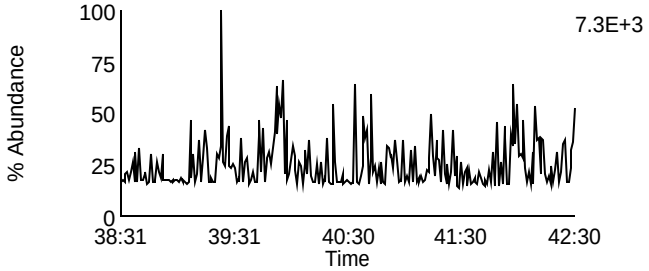


Homologue Group: Heptas

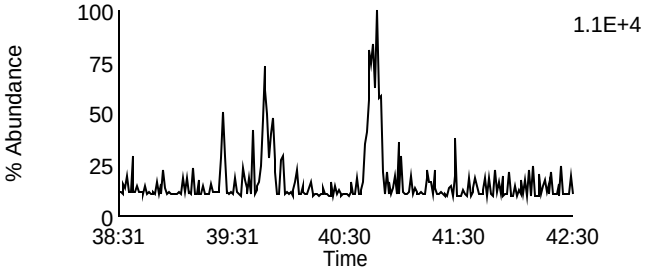
Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

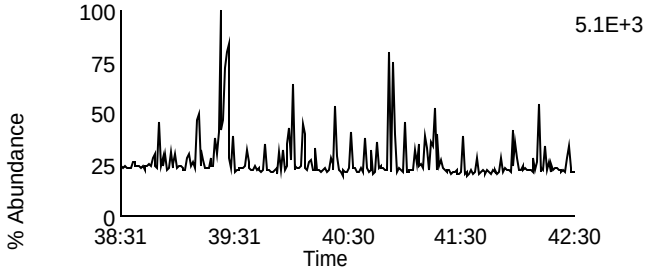
Data File: F140301B_12 G4 C3 - 407.7818
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G4 C8 - 423.7767
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G4 C4 - 409.7788
SAMP 10258392008 - BAL PASI-WI



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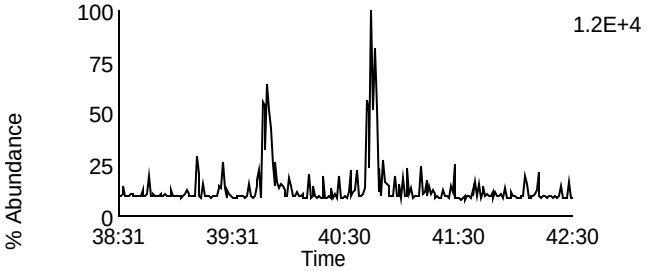
SAMP 10258392008 - BAL PASI-WI



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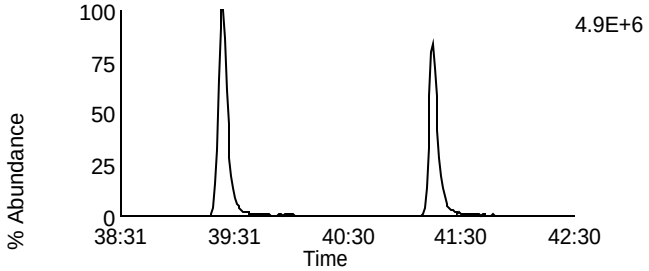
SAMP 10258392008 - BAL PASI-WI



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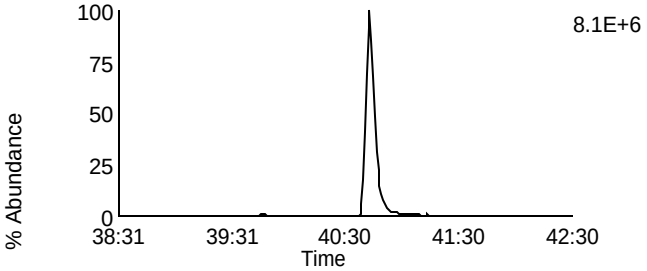
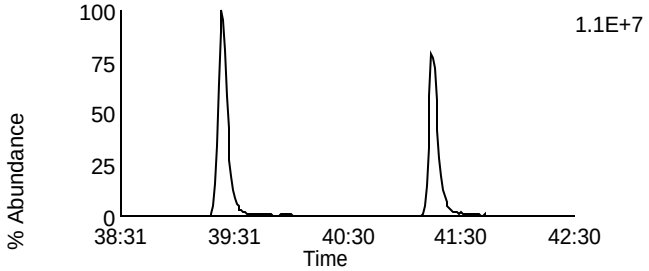
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G4 C7 - 419.822
SAMP 10258392008 - BAL PASI-WI



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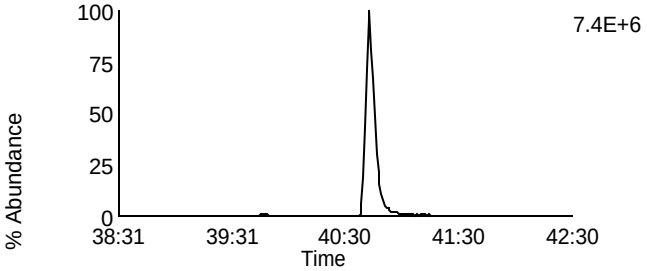
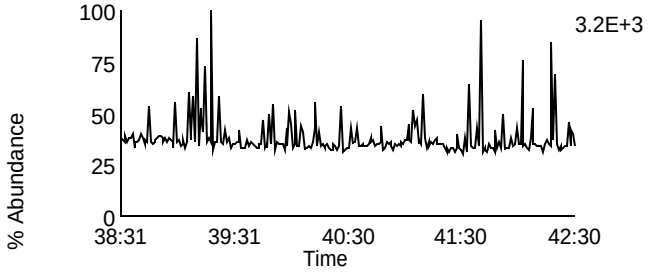
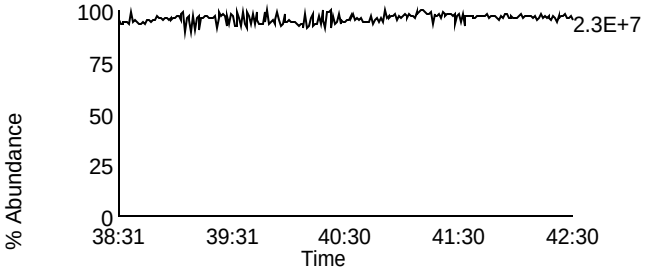
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G4 C13 - 479.7165
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G4 C1 - 380.976
SAMP 10258392008 - BAL PASI-WI

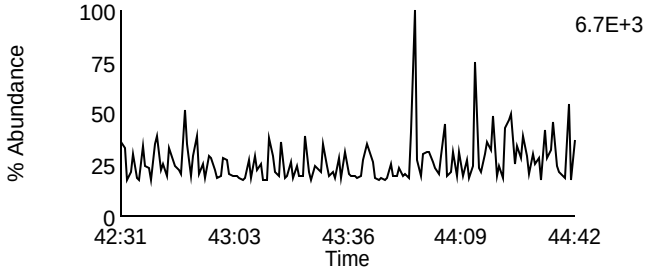


Homologue Group: Octas

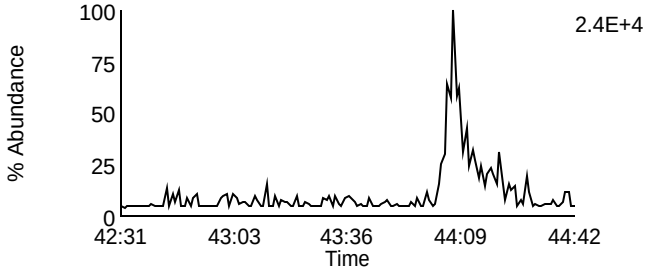
Data File Name: F140301B_12
Date Acquired: 3/1/2014
Sample Description: SAMP 10258392008 - BAL PASI-WI

Lab Sample ID: 10258392008
Client Sample ID: MAK108O
Instrument: 10MSHR05 (F)

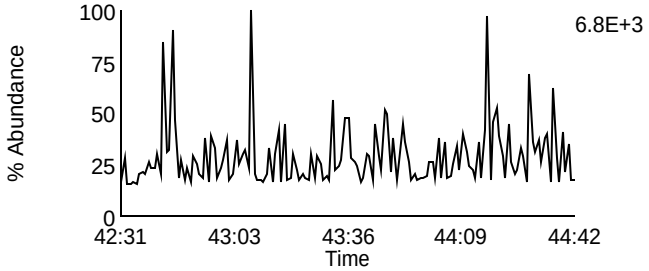
Data File: F140301B_12 G5 C4 - 441.7428
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G5 C8 - 457.7377
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G5 C5 - 443.7398
SAMP 10258392008 - BAL PASI-WI



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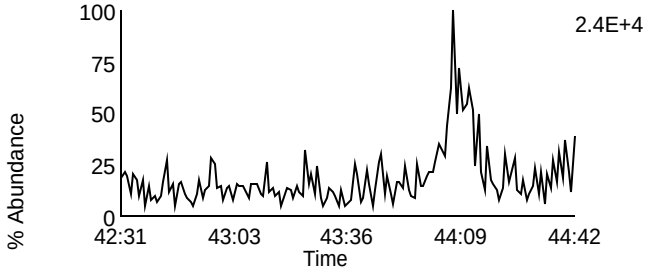
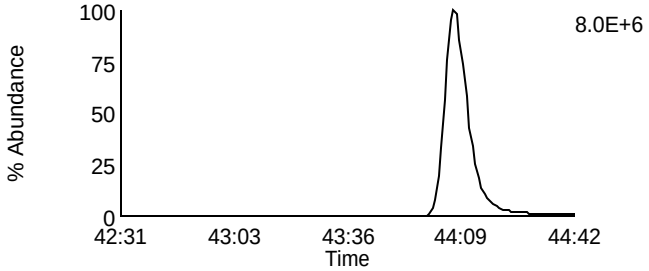
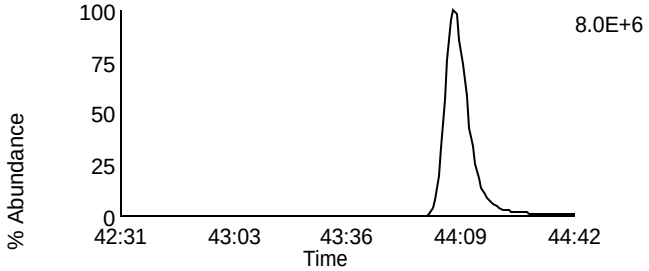
SAMP 10258392008 - BAL PASI-WI



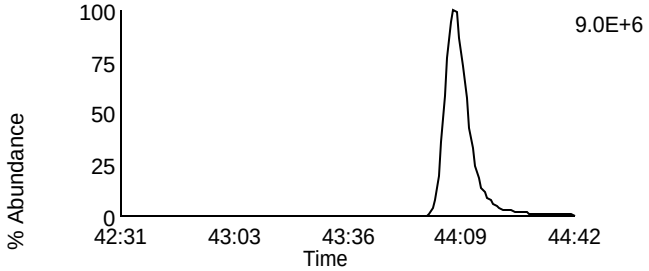
Data File: F140301B_12 G5 C11 - 469.7779
SAMP 10258392008 - BAL PASI-WI



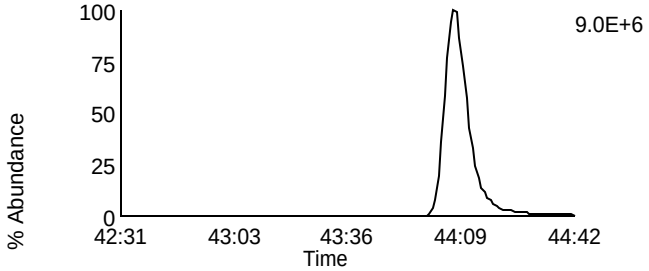
Data File: F140301B_12 G5 C11 - 469.7779
SAMP 10258392008 - BAL PASI-WI



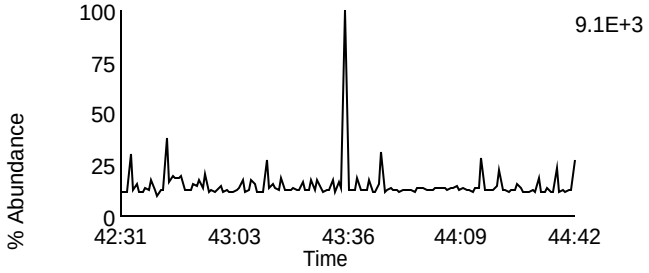
Data File: F140301B_12 G5 C12 - 471.7749
SAMP 10258392008 - BAL PASI-WI



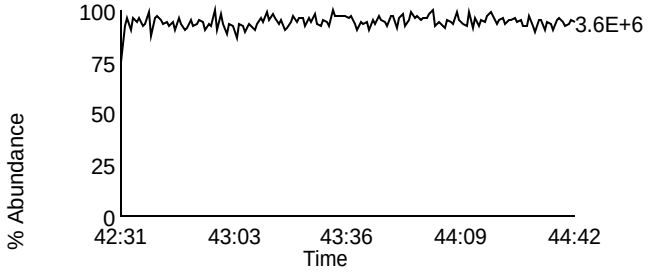
Data File: F140301B_12 G5 C12 - 471.7749
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G5 C13 - 513.6775
SAMP 10258392008 - BAL PASI-WI



Data File: F140301B_12 G5 C2 - 430.9728
SAMP 10258392008 - BAL PASI-WI

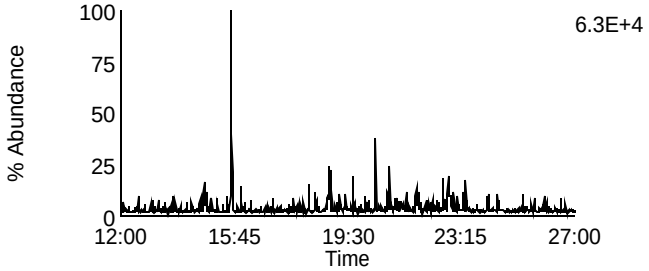


Homologue Group: Tetras

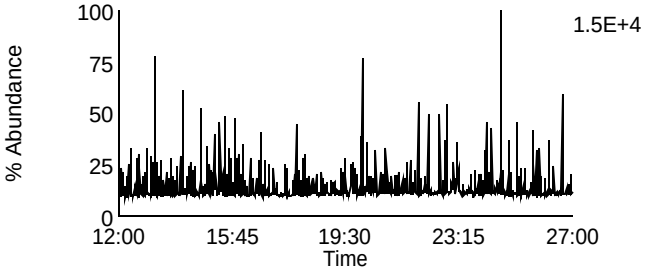
Data File Name: U140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392009 - SMT WI

Lab Sample ID: 10258392009
Client Sample ID: MAK102C
Instrument: 10MSHR06 (U)

Data File: U140307A_07 G1 C1 - 303.9016
SAMP 10258392009 - SMT WI



Data File: U140307A_07 G1 C7 - 319.8965
SAMP 10258392009 - SMT WI



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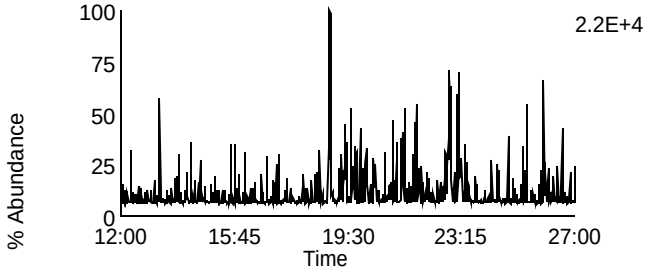
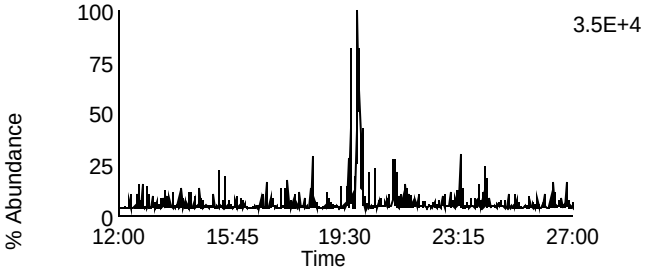
SAMP 10258392009 - SMT WI



Data File: U140307A_07 G1 C8 - 321.8936
SAMP 10258392009 - SMT WI



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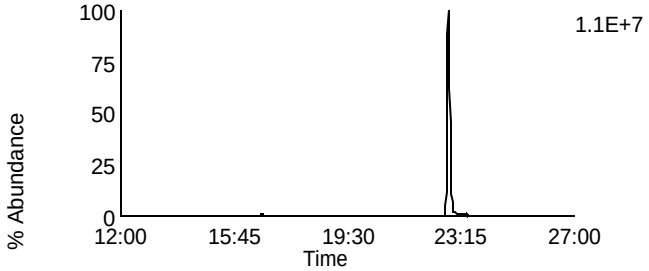
SAMP 10258392009 - SMT WI



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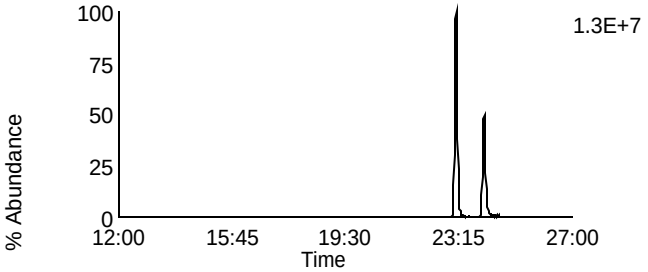
SAMP 10258392009 - SMT WI



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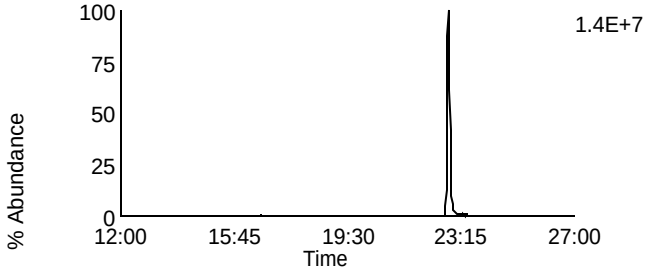
SAMP 10258392009 - SMT WI



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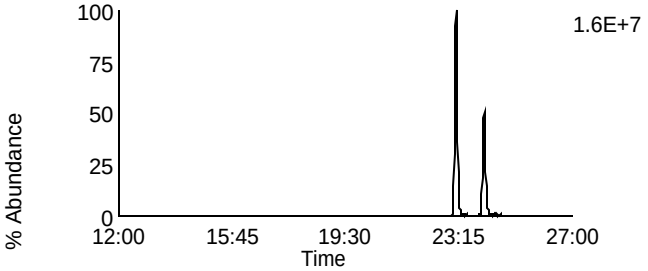
SAMP 10258392009 - SMT WI



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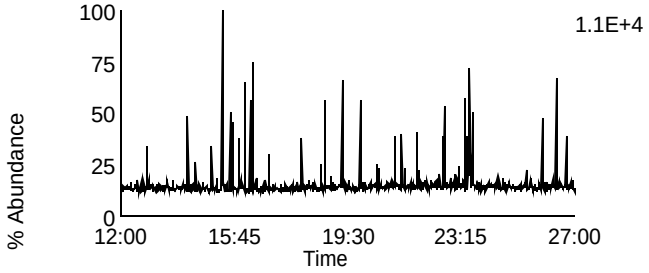
SAMP 10258392009 - SMT WI



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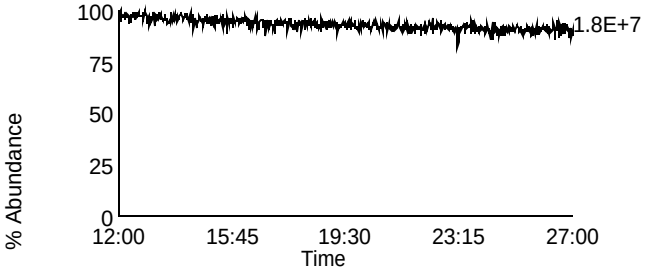
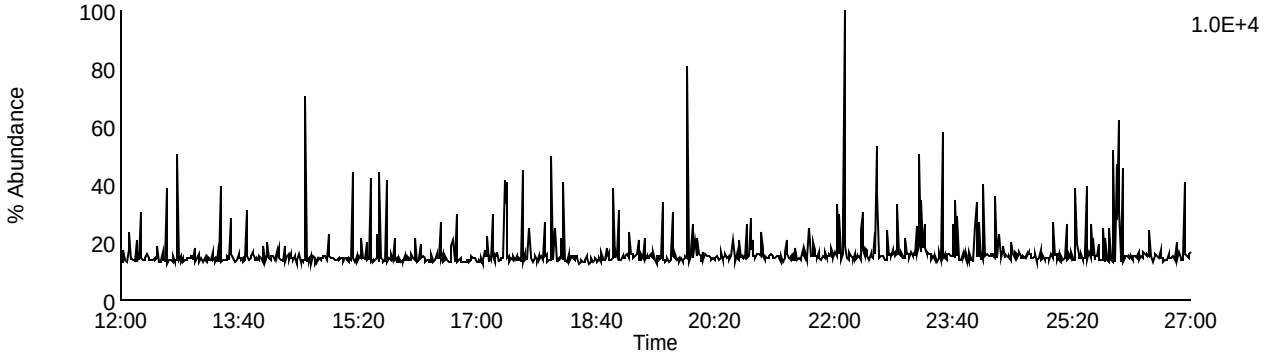
SAMP 10258392009 - SMT WI



Homologue Group: Penta & Cleanup

Data File Name: U140307A_07	Lab Sample ID: 10258392009
Date Acquired: 3/7/2014	Client Sample ID: MAK102C
Sample Description: SAMP 10258392009 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140307A_07 G1 C12 - 339.8597
SAMP 10258392009 - SMT WI



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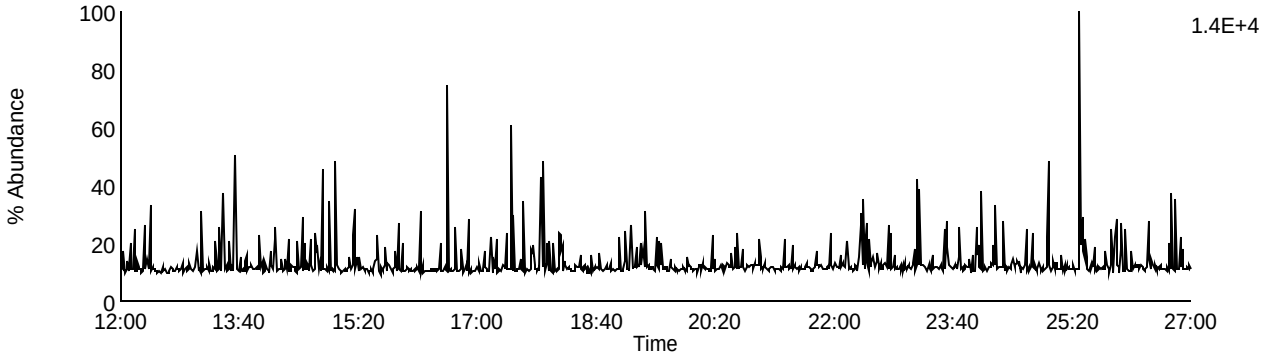
SAMP 10258392009 - SMT WI



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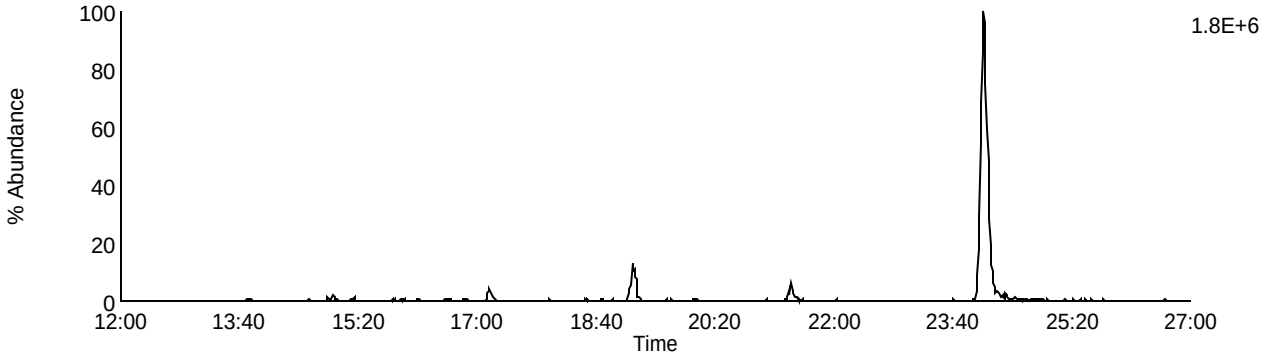
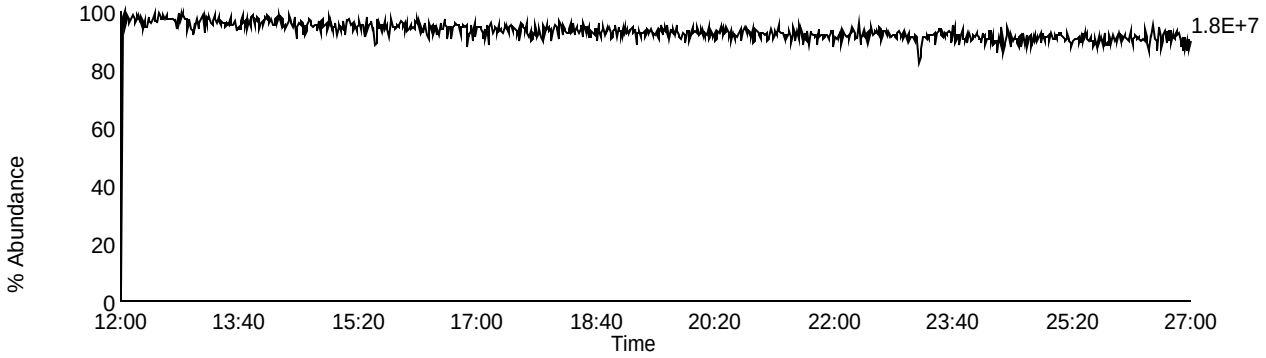
SAMP 10258392009 - SMT WI



Data File: U140307A_07 G1 C5 - 318.9792
SAMP 10258392009 - SMT WI

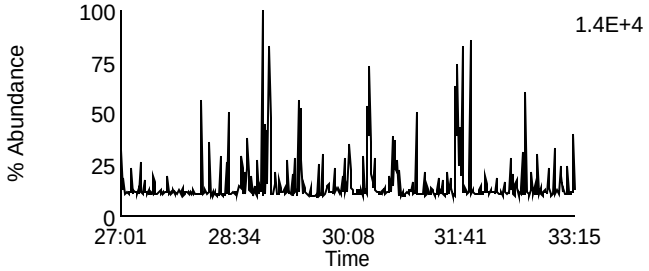


Homologue Group: Pentas

Data File Name: U140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392009 - SMT WI

Lab Sample ID: 10258392009
Client Sample ID: MAK102C
Instrument: 10MSHR06 (U)

Data File: U140307A_07 G2 C1 - 339.8597
SAMP 10258392009 - SMT WI



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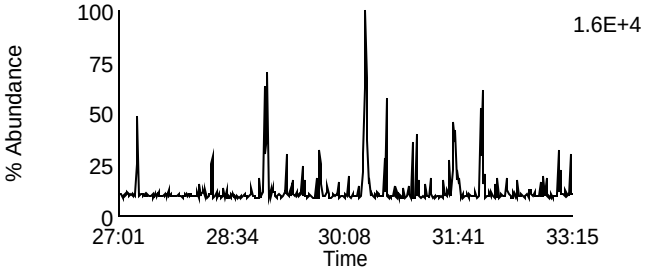
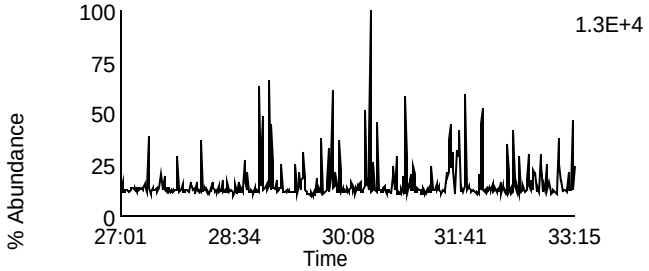
SAMP 10258392009 - SMT WI



Data File: U140307A_07 G2 C2 - 341.8567
SAMP 10258392009 - SMT WI



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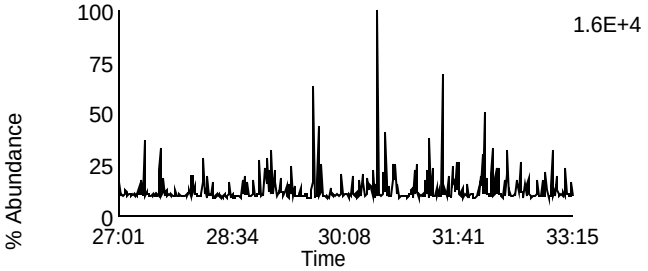
SAMP 10258392009 - SMT WI



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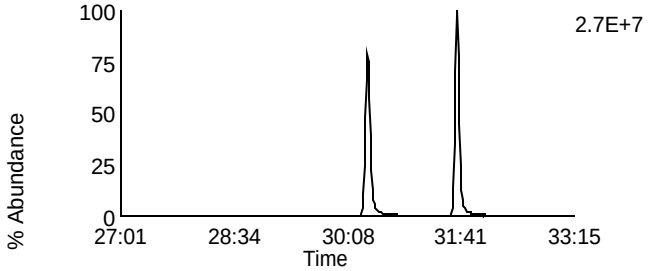
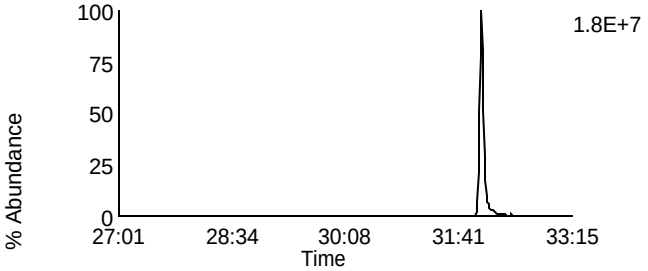
SAMP 10258392009 - SMT WI



Data File: U140307A_07 G2 C10 - 367.8948
SAMP 10258392009 - SMT WI



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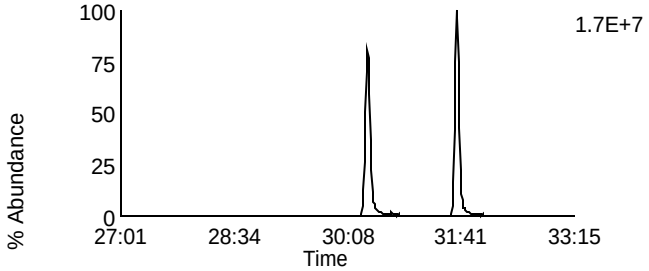
SAMP 10258392009 - SMT WI



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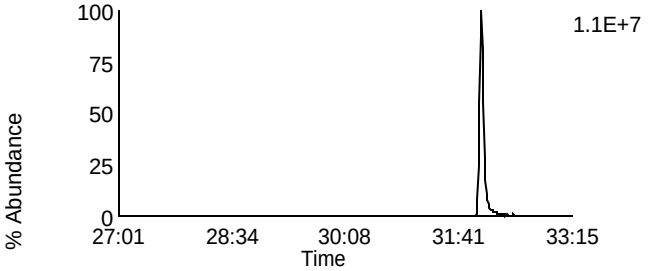
SAMP 10258392009 - SMT WI



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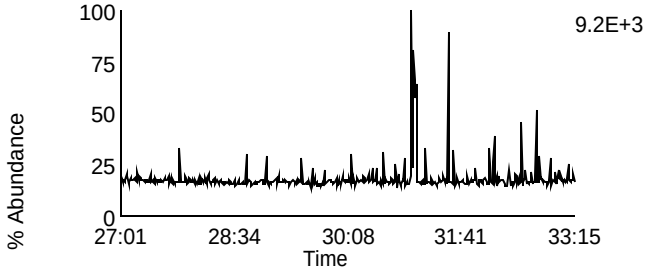
SAMP 10258392009 - SMT WI



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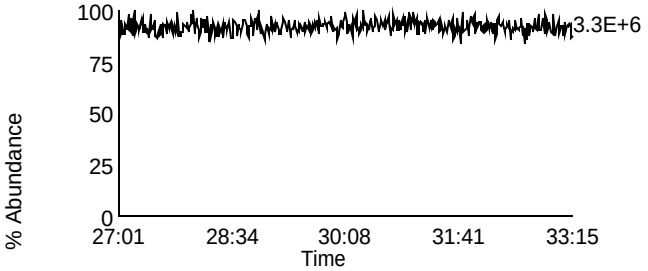
SAMP 10258392009 - SMT WI

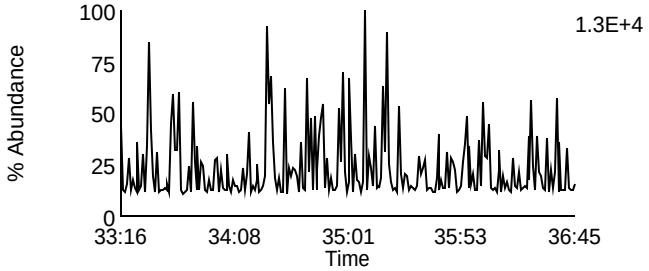


Homologue Group: Hexas

Data File Name: U140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392009 - SMT WI

Lab Sample ID: 10258392009
Client Sample ID: MAK102C
Instrument: 10MSHR06 (U)

Data File: U140307A_07 G3 C1 - 373.8207
SAMP 10258392009 - SMT WI



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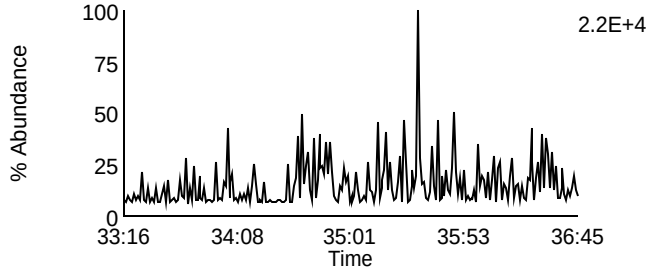
SAMP 10258392009 - SMT WI



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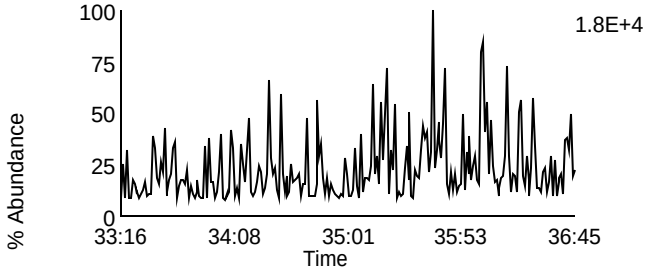
SAMP 10258392009 - SMT WI



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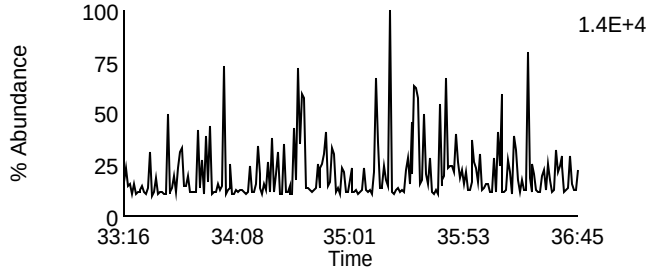
SAMP 10258392009 - SMT WI



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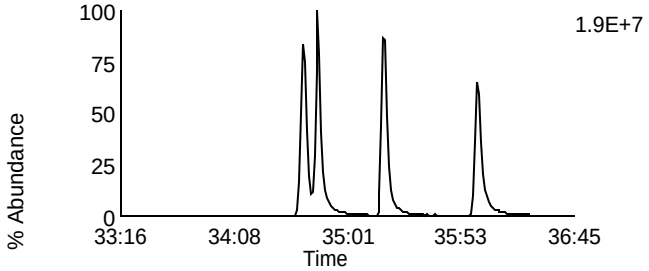
SAMP 10258392009 - SMT WI



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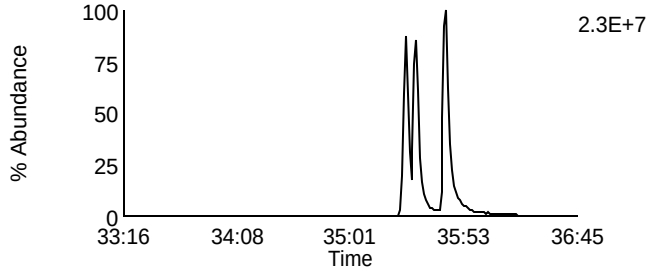

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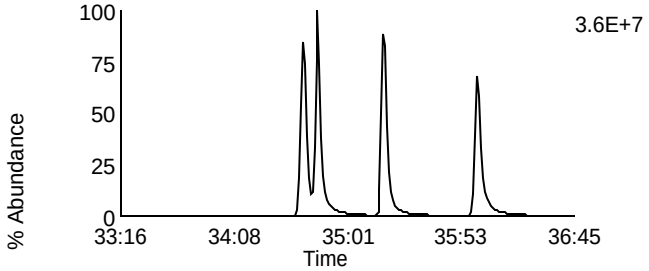

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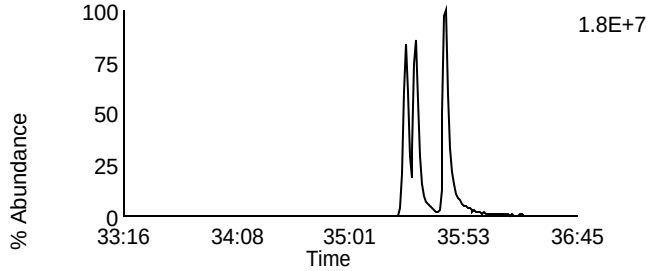

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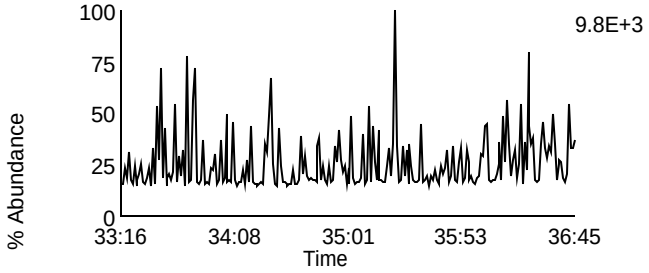
SAMP 10258392009 - SMT WI



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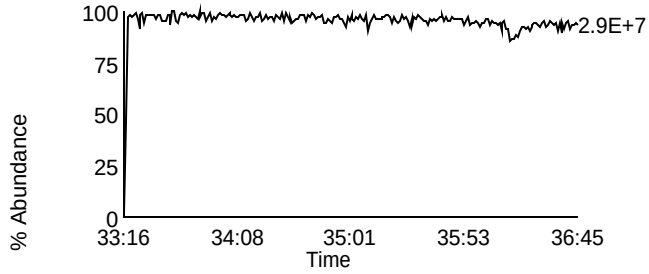
SAMP 10258392009 - SMT WI

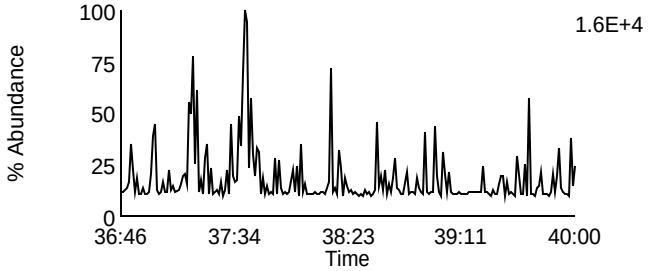


Homologue Group: Heptas

Data File Name: U140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392009 - SMT WI

Lab Sample ID: 10258392009
Client Sample ID: MAK102C
Instrument: 10MSHR06 (U)

Data File: U140307A_07 G4 C3 - 407.7818
SAMP 10258392009 - SMT WI



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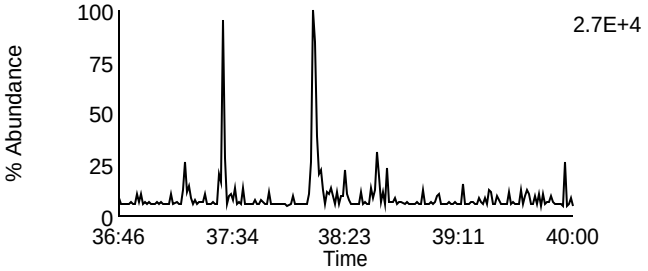

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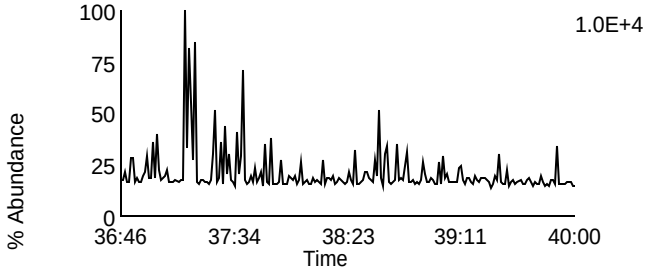
SAMP 10258392009 - SMT WI



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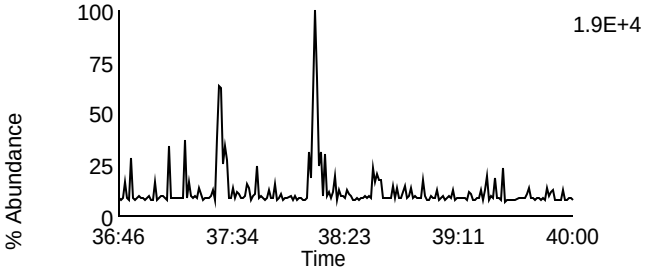
SAMP 10258392009 - SMT WI



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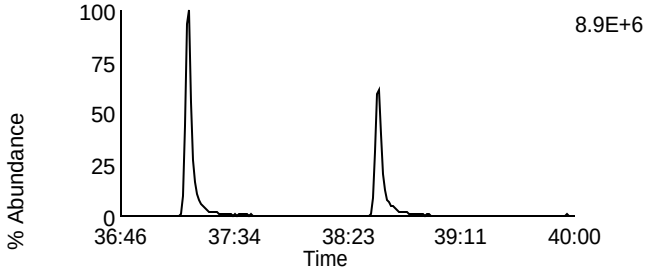

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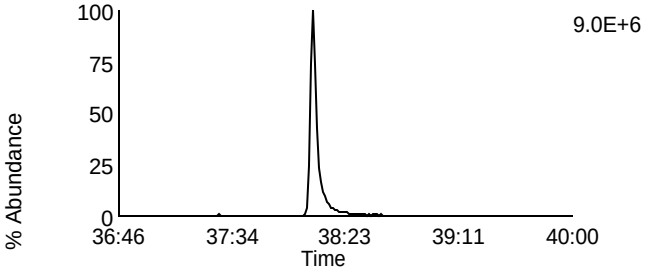
SAMP 10258392009 - SMT WI



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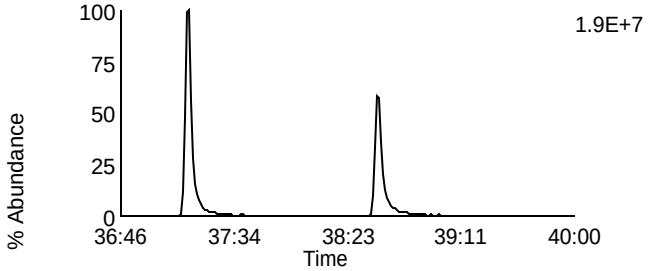
SAMP 10258392009 - SMT WI



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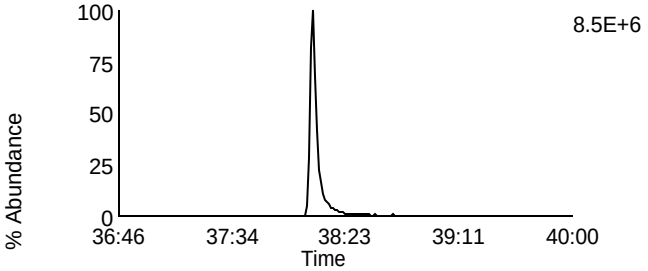
SAMP 10258392009 - SMT WI



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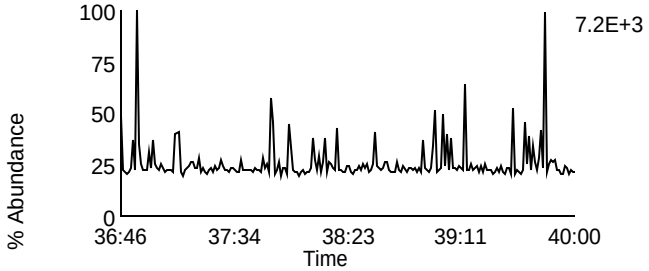

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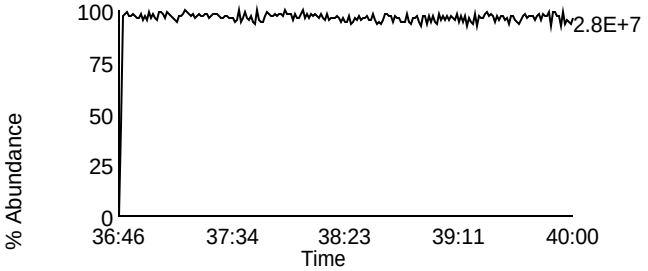
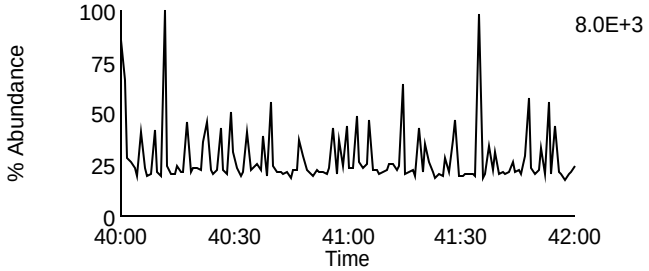


Homologue Group: Octas

Data File Name: U140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392009 - SMT WI

Lab Sample ID: 10258392009
Client Sample ID: MAK102C
Instrument: 10MSHR06 (U)

Data File: U140307A_07 G5 C4 - 441.7428
SAMP 10258392009 - SMT WI



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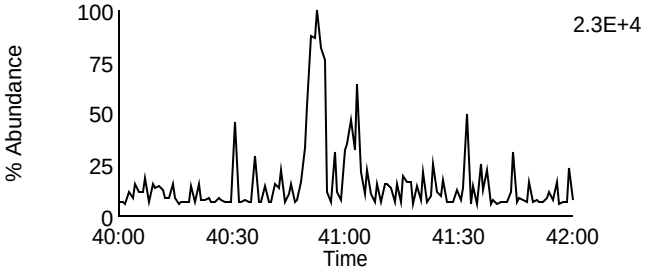
SAMP 10258392009 - SMT WI



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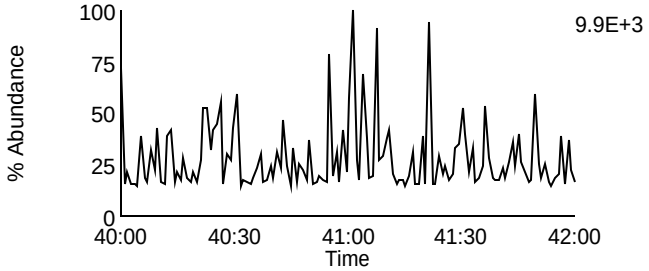
SAMP 10258392009 - SMT WI



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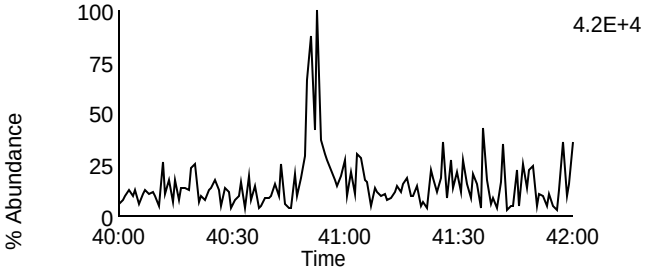
SAMP 10258392009 - SMT WI



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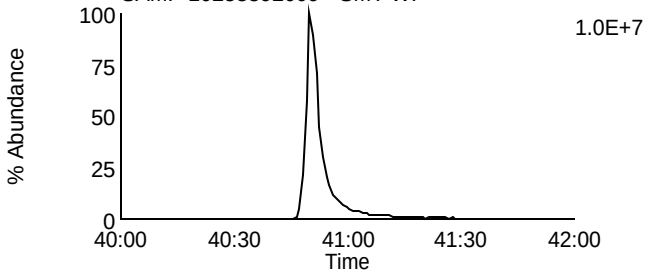
SAMP 10258392009 - SMT WI



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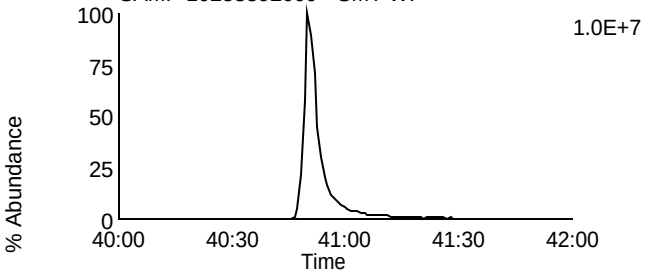
SAMP 10258392009 - SMT WI



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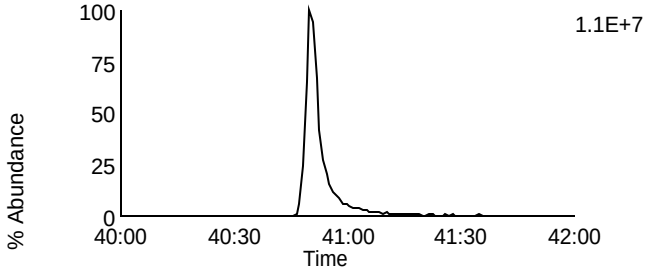
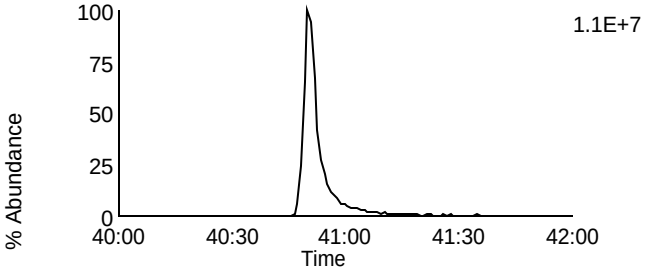


Data File: U140307A_07 G5 C12 - 471.7749
SAMP 10258392009 - SMT WI



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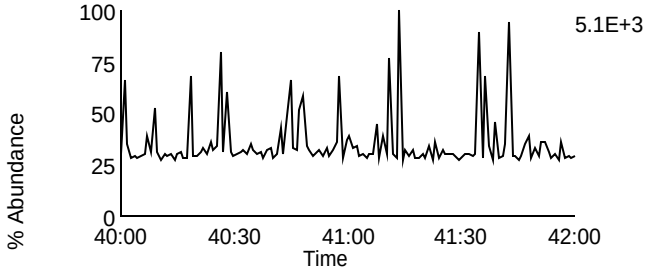
SAMP 10258392009 - SMT WI



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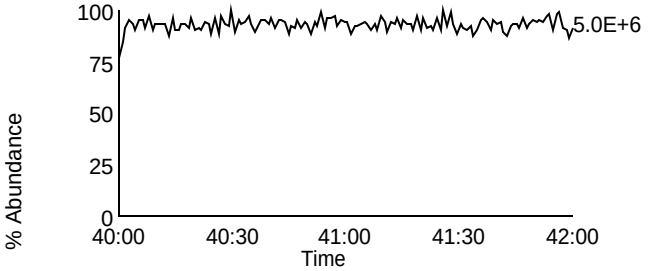
SAMP 10258392009 - SMT WI

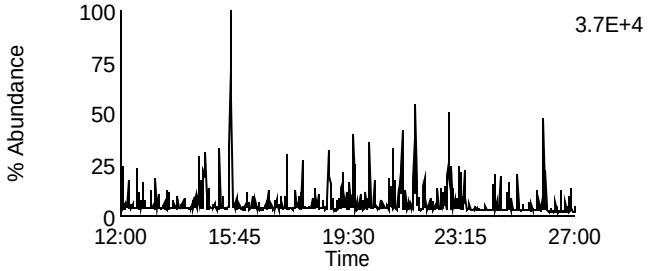


Homologue Group: Tetras

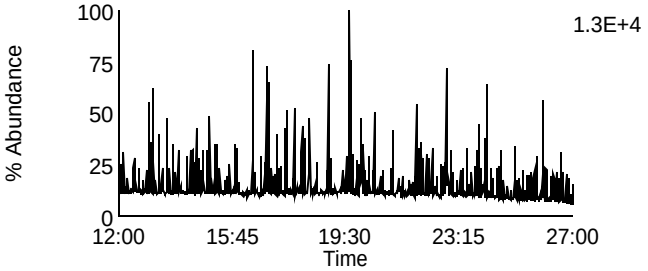
Data File Name: U140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392010 - SMT WI

Lab Sample ID: 10258392010
Client Sample ID: MAK103C
Instrument: 10MSHR06 (U)

Data File: U140307A_08 G1 C1 - 303.9016
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G1 C7 - 319.8965
SAMP 10258392010 - SMT WI



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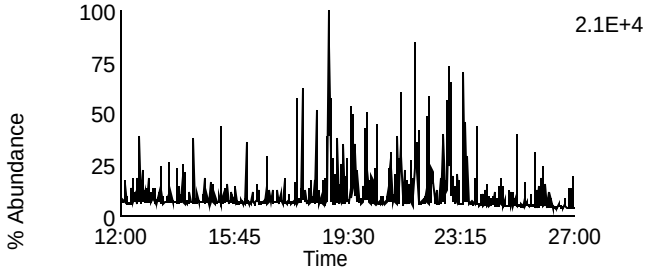
SAMP 10258392010 - SMT WI



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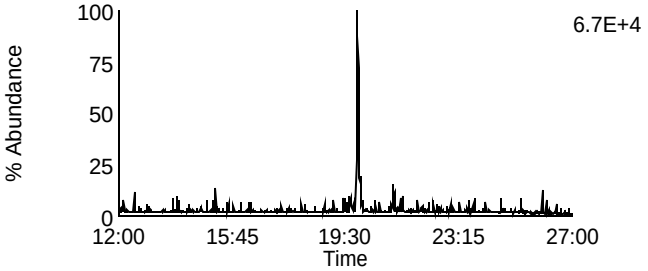
SAMP 10258392010 - SMT WI



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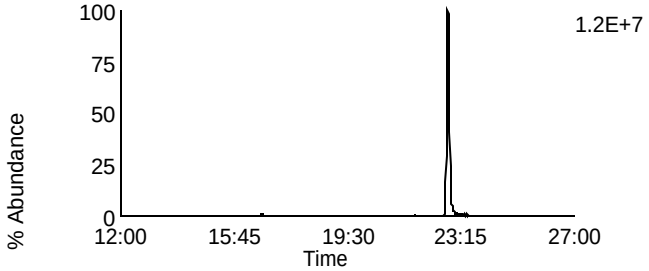
SAMP 10258392010 - SMT WI



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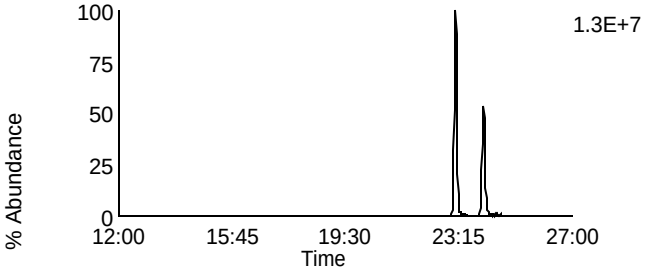
SAMP 10258392010 - SMT WI



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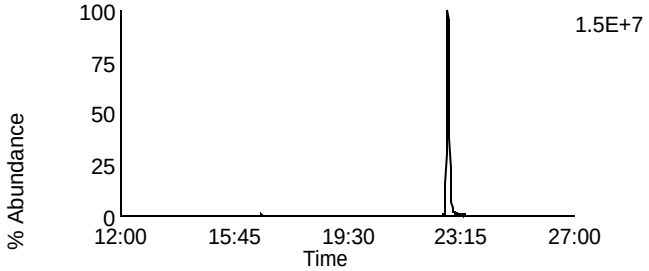
SAMP 10258392010 - SMT WI



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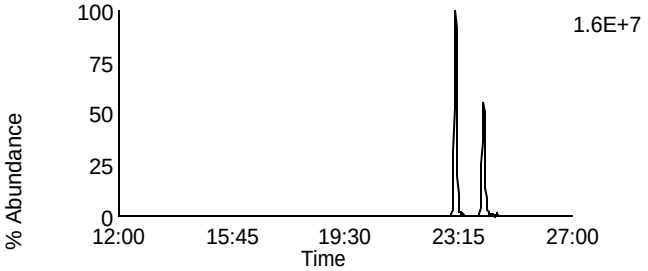
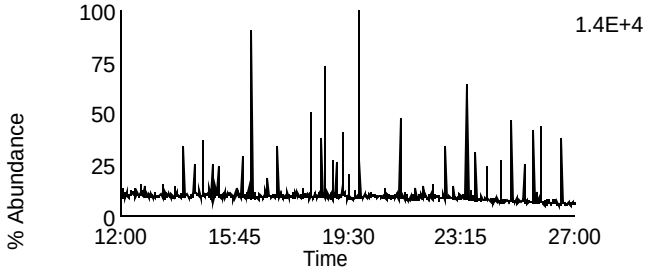
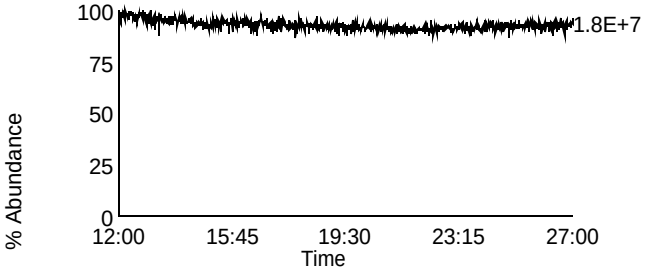
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G1 C14 - 375.8364
SAMP 10258392010 - SMT WI



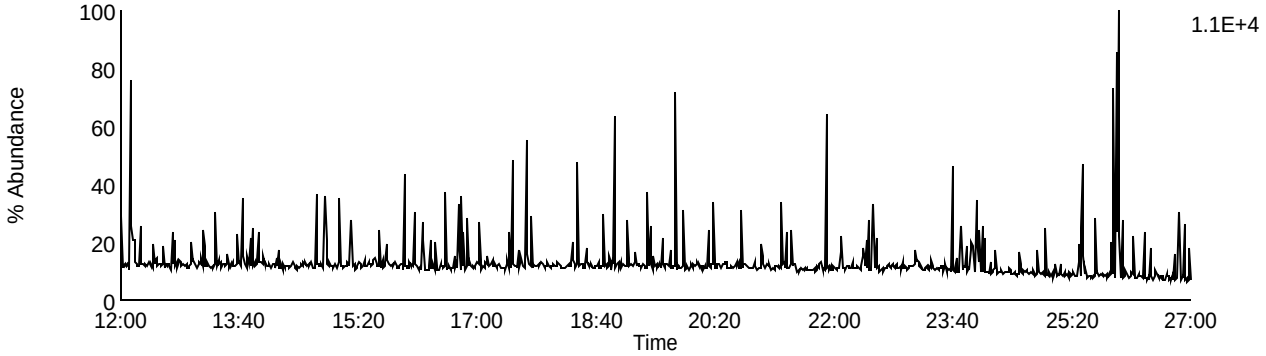
Data File: U140307A_08 G1 C5 - 318.9792
SAMP 10258392010 - SMT WI



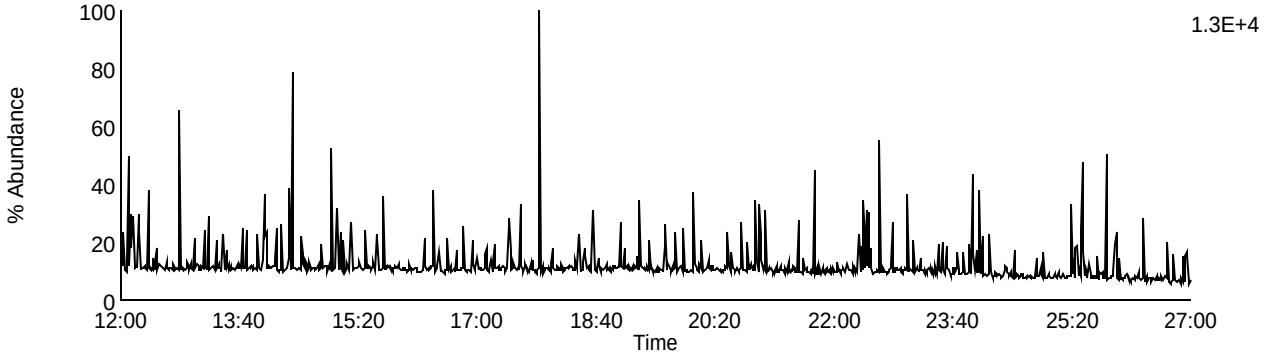
Homologue Group: Penta & Cleanup

Data File Name: U140307A_08	Lab Sample ID: 10258392010
Date Acquired: 3/7/2014	Client Sample ID: MAK103C
Sample Description: SAMP 10258392010 - SMT WI	Instrument: 10MSHR06 (U)

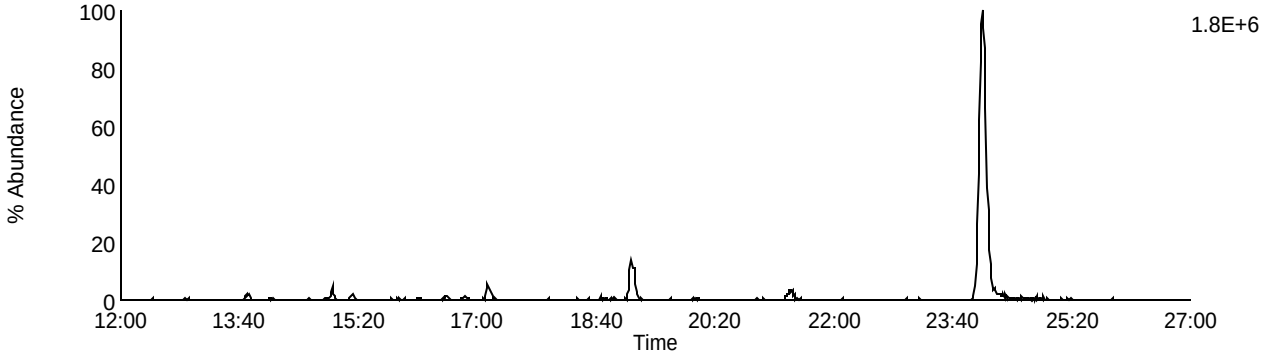
Data File: U140307A_08 G1 C12 - 339.8597
SAMP 10258392010 - SMT WI



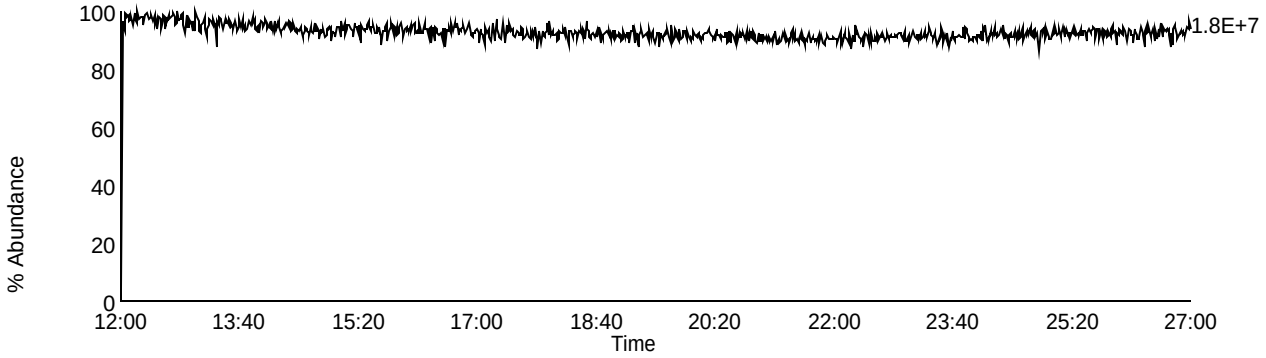
Data File: U140307A_08 G1 C13 - 341.8567
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G1 C9 - 327.8847
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G1 C5 - 318.9792
SAMP 10258392010 - SMT WI

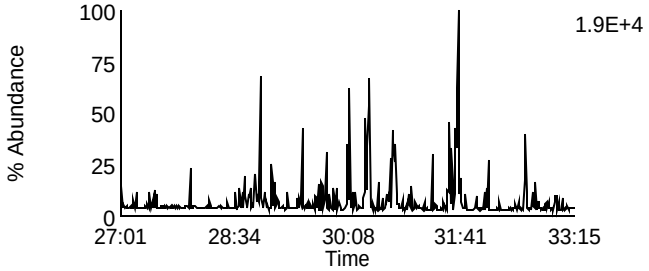


Homologue Group: Pentas

Data File Name: U140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392010 - SMT WI

Lab Sample ID: 10258392010
Client Sample ID: MAK103C
Instrument: 10MSHR06 (U)

Data File: U140307A_08 G2 C1 - 339.8597
SAMP 10258392010 - SMT WI



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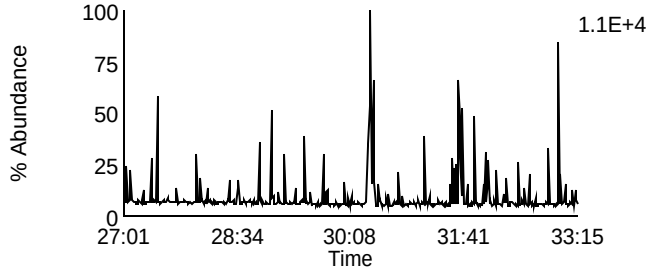
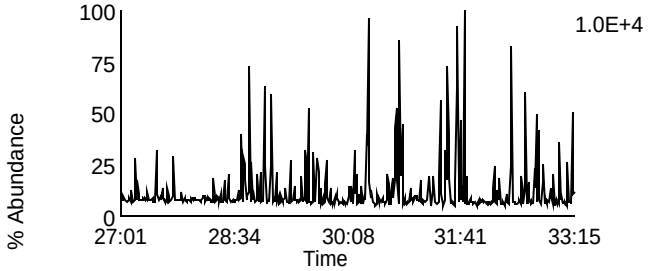
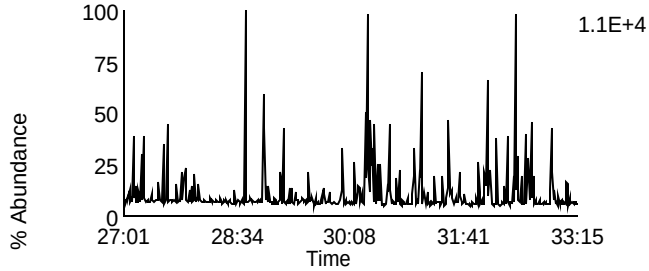
SAMP 10258392010 - SMT WI



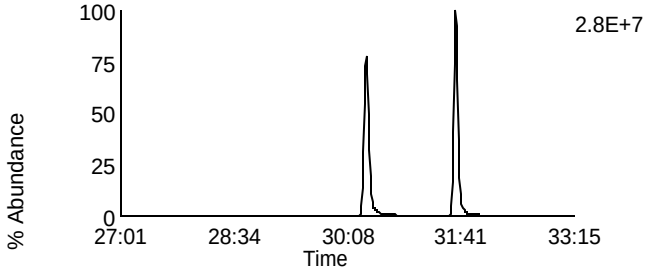
Data File: U140307A_08 G2 C2 - 341.8567
SAMP 10258392010 - SMT WI



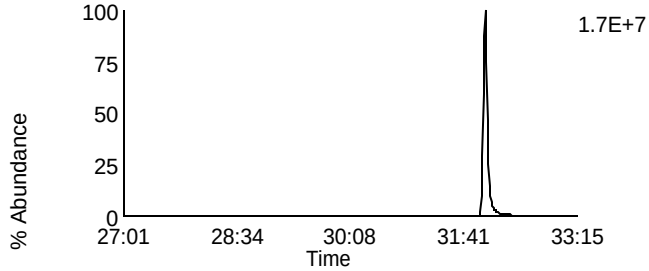
Data File: U140307A_08 G2 C8 - 355.8546
SAMP 10258392010 - SMT WI



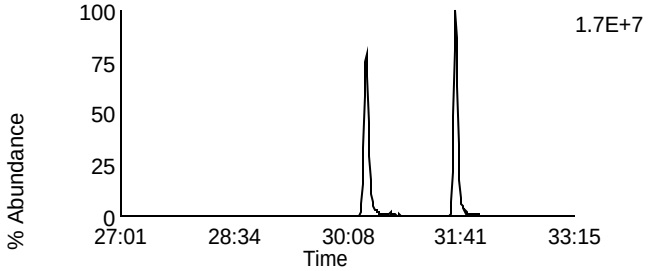
Data File: U140307A_08 G2 C3 - 351.8999
SAMP 10258392010 - SMT WI



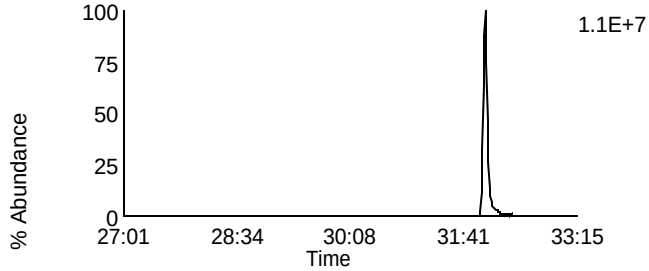
Data File: U140307A_08 G2 C10 - 367.8948
SAMP 10258392010 - SMT WI



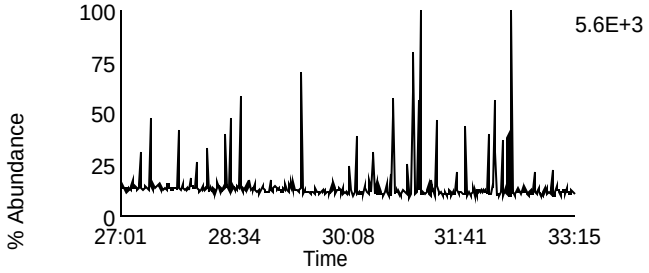
Data File: U140307A_08 G2 C5 - 353.8969
SAMP 10258392010 - SMT WI



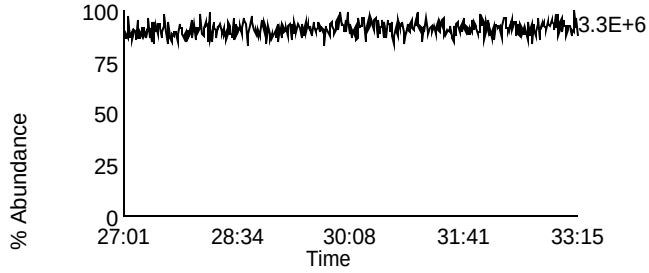
Data File: U140307A_08 G2 C11 - 369.8918
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G2 C12 - 409.7974
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G2 C6 - 354.9792
SAMP 10258392010 - SMT WI

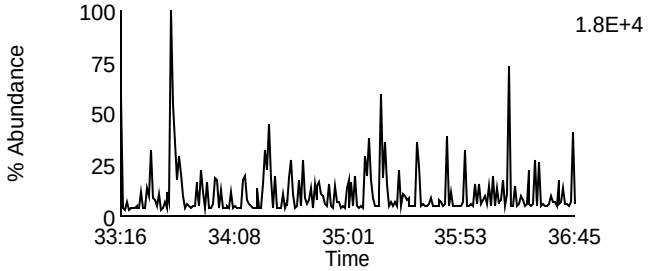


Homologue Group: Hexas

Data File Name: U140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392010 - SMT WI

Lab Sample ID: 10258392010
Client Sample ID: MAK103C
Instrument: 10MSHR06 (U)

Data File: U140307A_08 G3 C1 - 373.8207
SAMP 10258392010 - SMT WI



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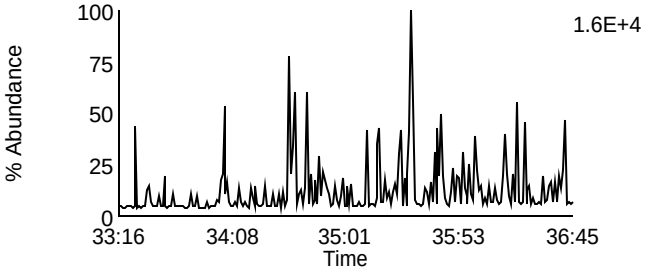
SAMP 10258392010 - SMT WI



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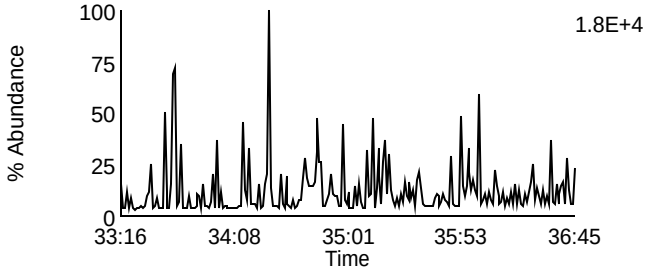
SAMP 10258392010 - SMT WI



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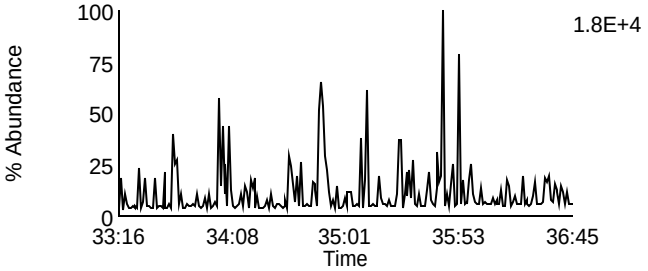
SAMP 10258392010 - SMT WI



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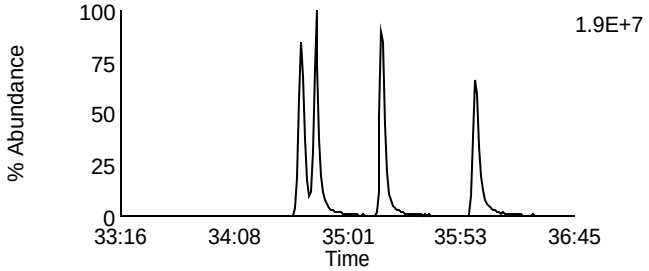
SAMP 10258392010 - SMT WI



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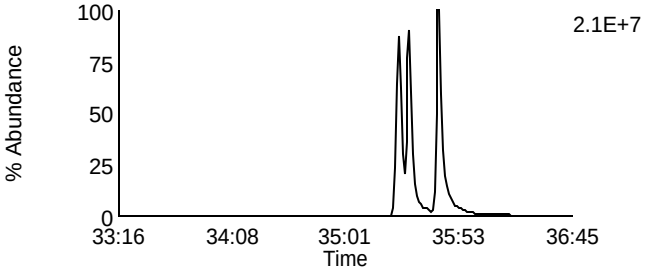
SAMP 10258392010 - SMT WI



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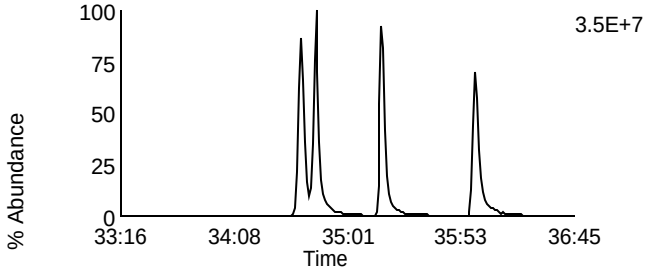
SAMP 10258392010 - SMT WI



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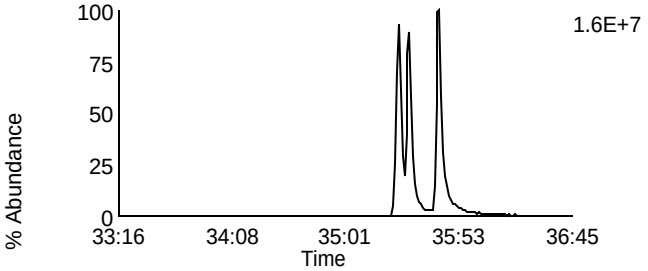
SAMP 10258392010 - SMT WI



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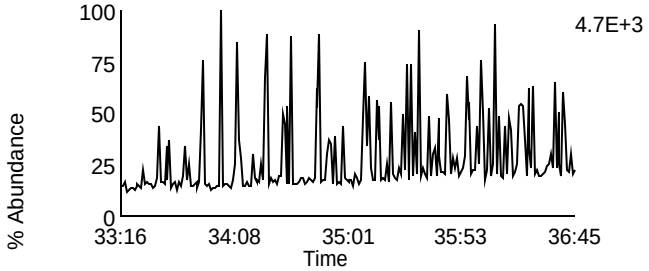
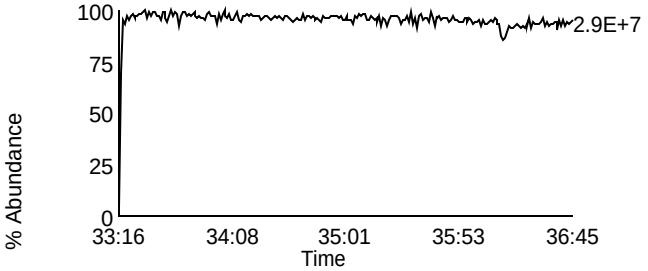
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G3 C3 - 380.976
SAMP 10258392010 - SMT WI

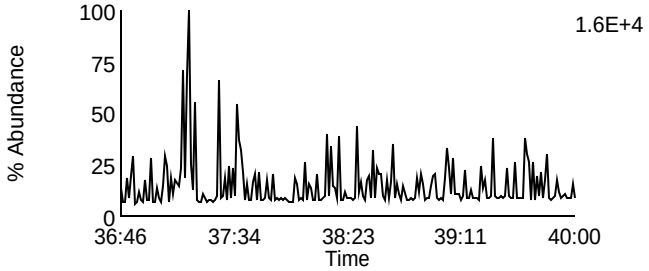


Homologue Group: Heptas

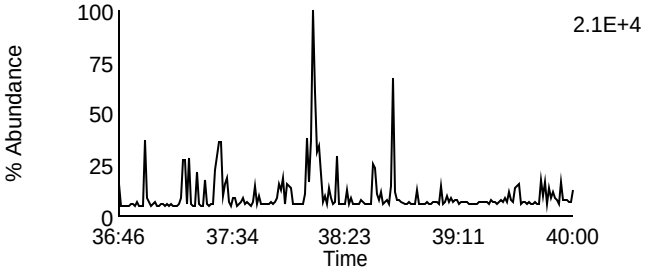
Data File Name: U140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392010 - SMT WI

Lab Sample ID: 10258392010
Client Sample ID: MAK103C
Instrument: 10MSHR06 (U)

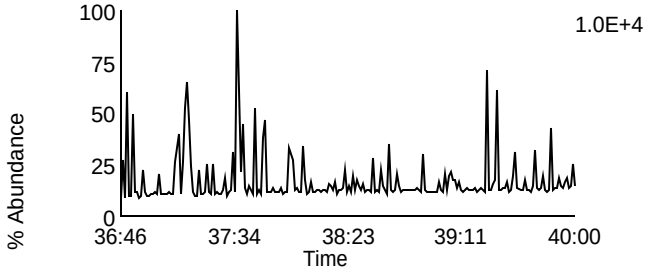
Data File: U140307A_08 G4 C3 - 407.7818
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G4 C8 - 423.7767
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G4 C4 - 409.7788
SAMP 10258392010 - SMT WI



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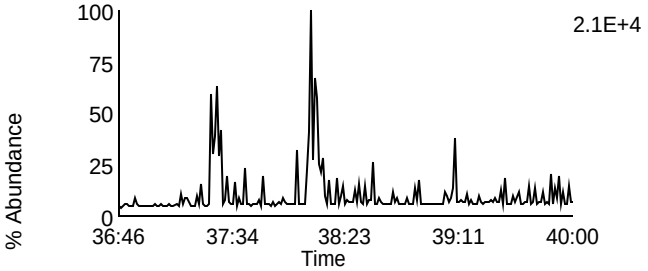
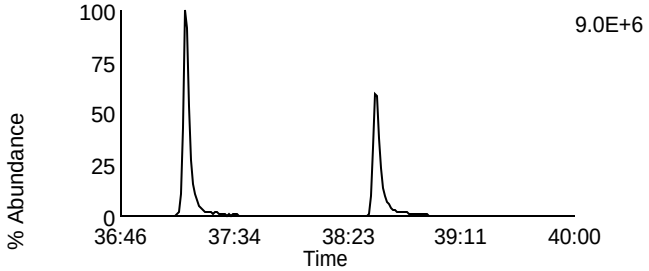
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G4 C6 - 417.825
SAMP 10258392010 - SMT WI



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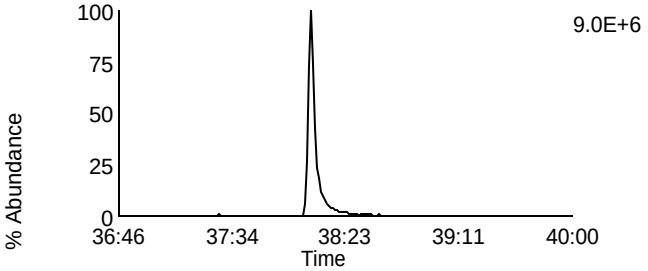
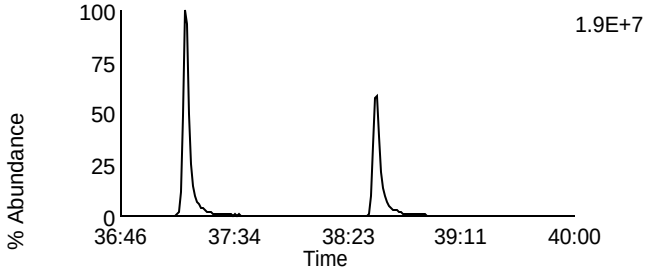
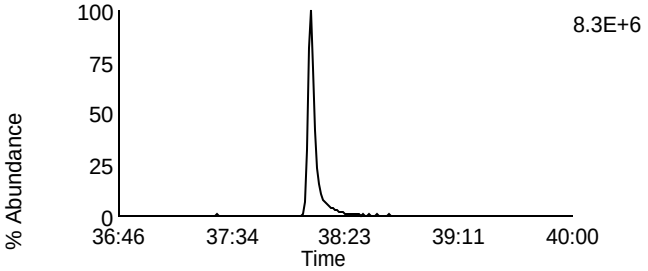
SAMP 10258392010 - SMT WI



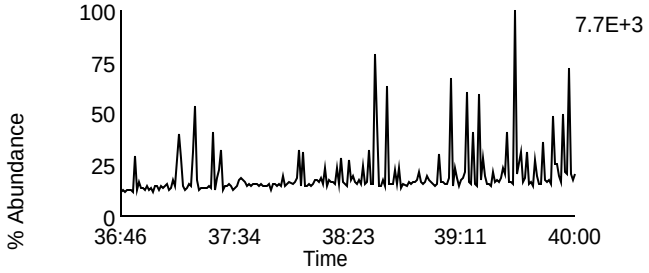
Data File: U140307A_08 G4 C7 - 419.822
SAMP 10258392010 - SMT WI



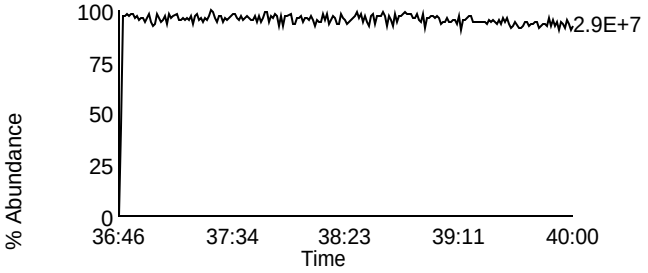
Data File: U140307A_08 G4 C12 - 437.814
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G4 C13 - 479.7165
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G4 C1 - 380.976
SAMP 10258392010 - SMT WI

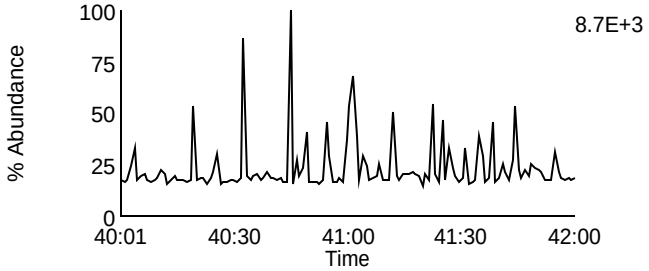


Homologue Group: Octas

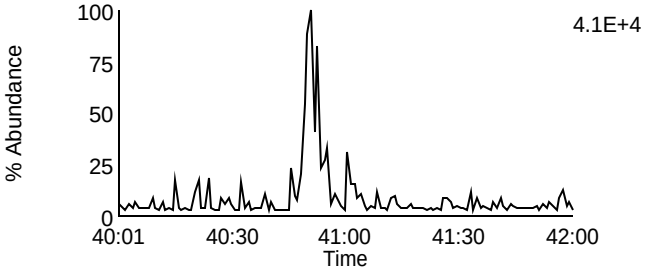
Data File Name: U140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392010 - SMT WI

Lab Sample ID: 10258392010
Client Sample ID: MAK103C
Instrument: 10MSHR06 (U)

Data File: U140307A_08 G5 C4 - 441.7428
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G5 C8 - 457.7377
SAMP 10258392010 - SMT WI



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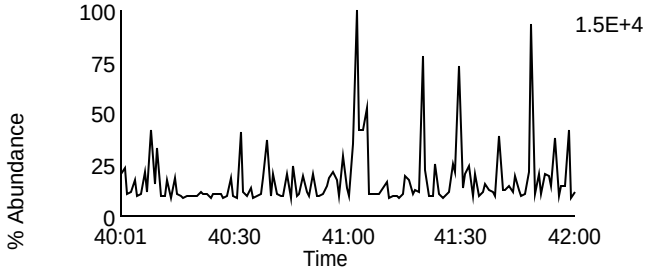
SAMP 10258392010 - SMT WI



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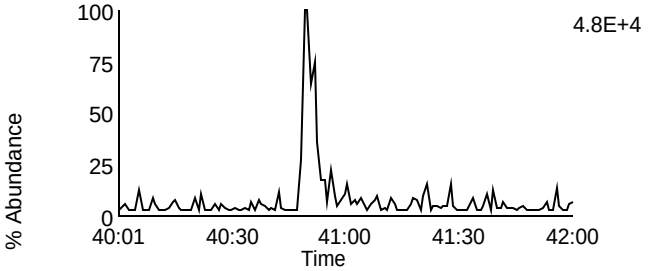
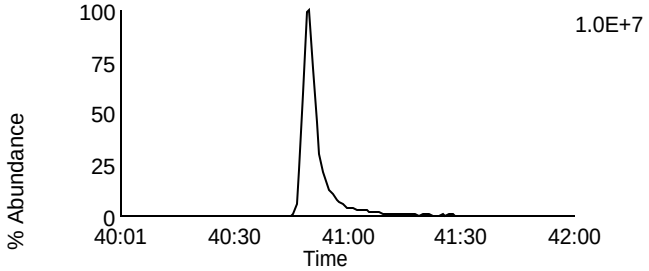
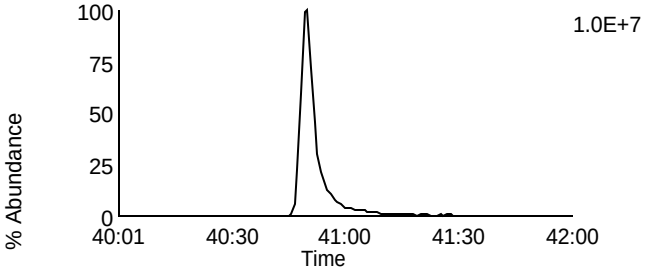
SAMP 10258392010 - SMT WI



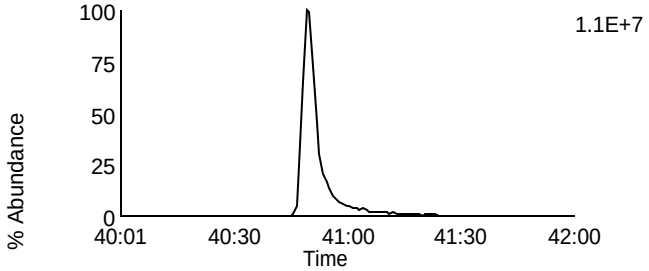
Data File: U140307A_08 G5 C11 - 469.7779
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G5 C11 - 469.7779
SAMP 10258392010 - SMT WI



Data File: U140307A_08 G5 C12 - 471.7749
SAMP 10258392010 - SMT WI



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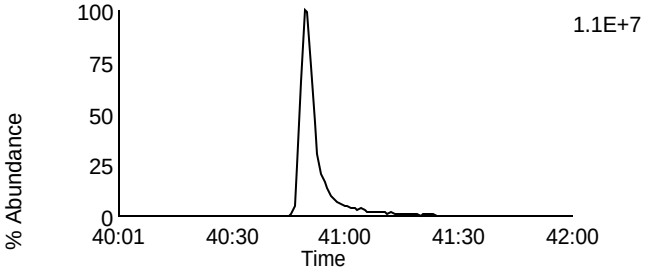
SAMP 10258392010 - SMT WI



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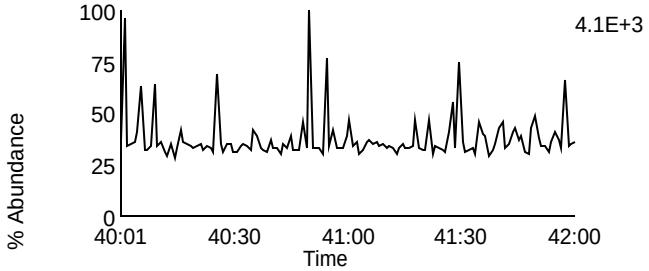
SAMP 10258392010 - SMT WI



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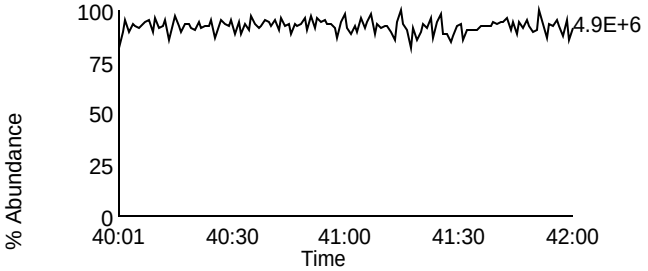
SAMP 10258392010 - SMT WI

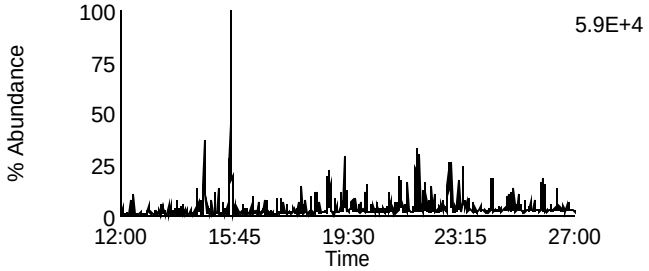


Homologue Group: Tetras

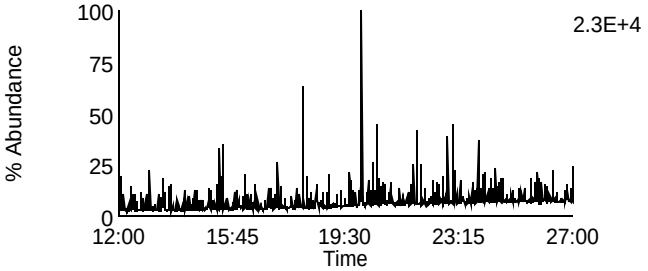
Data File Name: U140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392011 - SMT WI

Lab Sample ID: 10258392011
Client Sample ID: MAK104C
Instrument: 10MSHR06 (U)

Data File: U140307A_09 G1 C1 - 303.9016
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G1 C7 - 319.8965
SAMP 10258392011 - SMT WI



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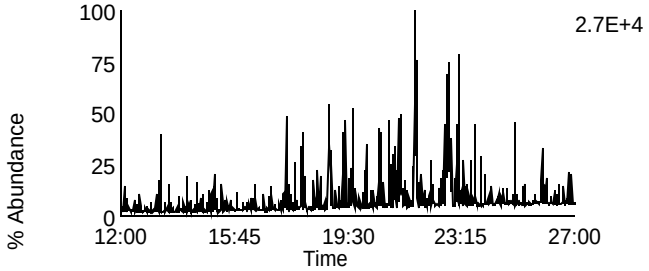
SAMP 10258392011 - SMT WI



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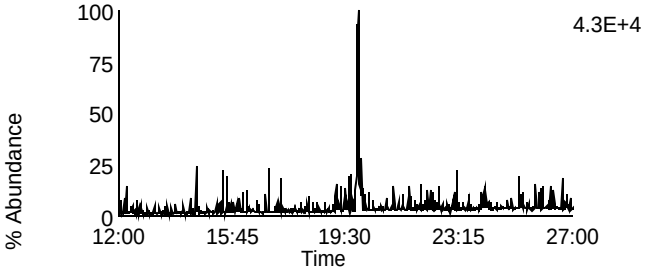
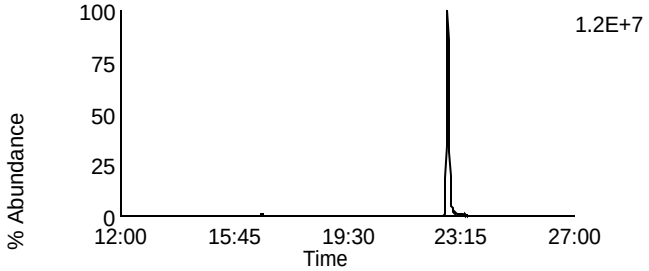
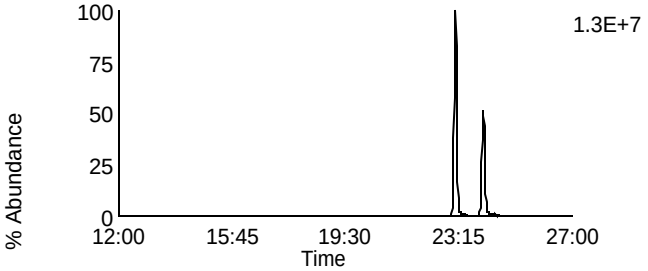
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G1 C3 - 315.9418
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G1 C10 - 331.9367
SAMP 10258392011 - SMT WI



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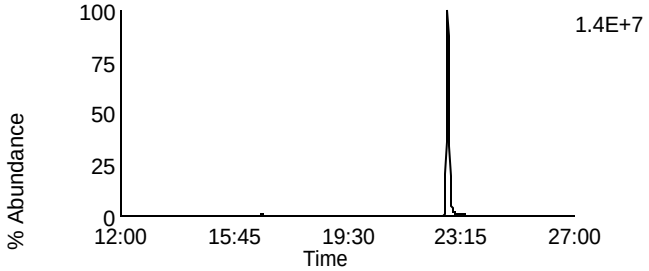
SAMP 10258392011 - SMT WI



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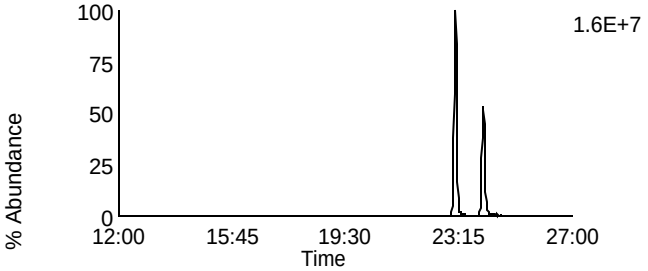
SAMP 10258392011 - SMT WI



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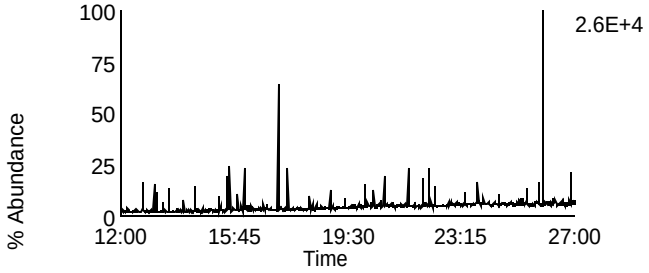
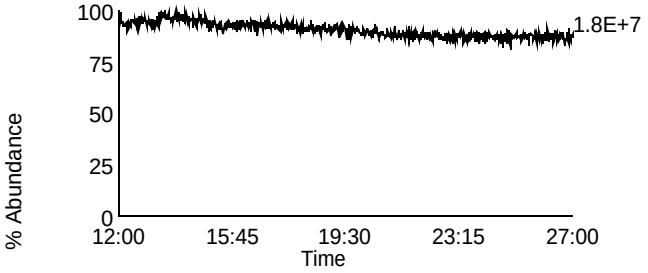
SAMP 10258392011 - SMT WI



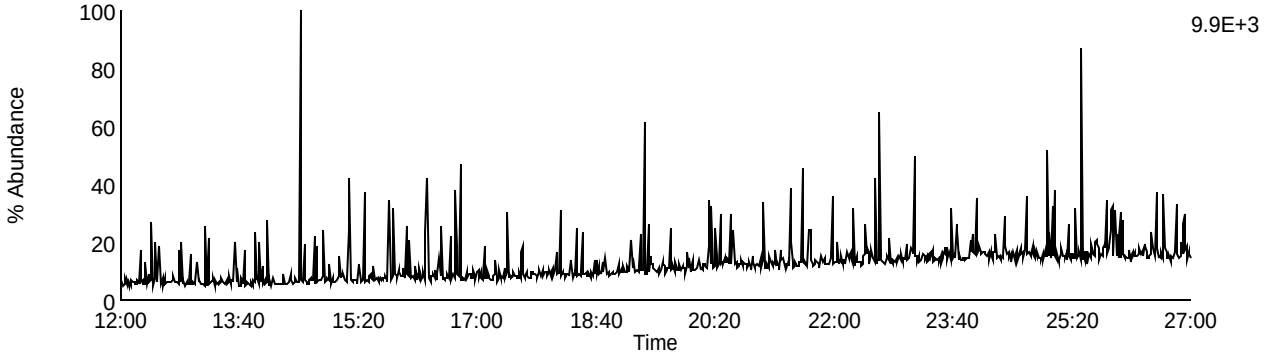
Data File: U140307A_09 G1 C5 - 318.9792
SAMP 10258392011 - SMT WI



Homologue Group: Penta & Cleanup

Data File Name: U140307A_09	Lab Sample ID: 10258392011
Date Acquired: 3/7/2014	Client Sample ID: MAK104C
Sample Description: SAMP 10258392011 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140307A_09 G1 C12 - 339.8597
SAMP 10258392011 - SMT WI



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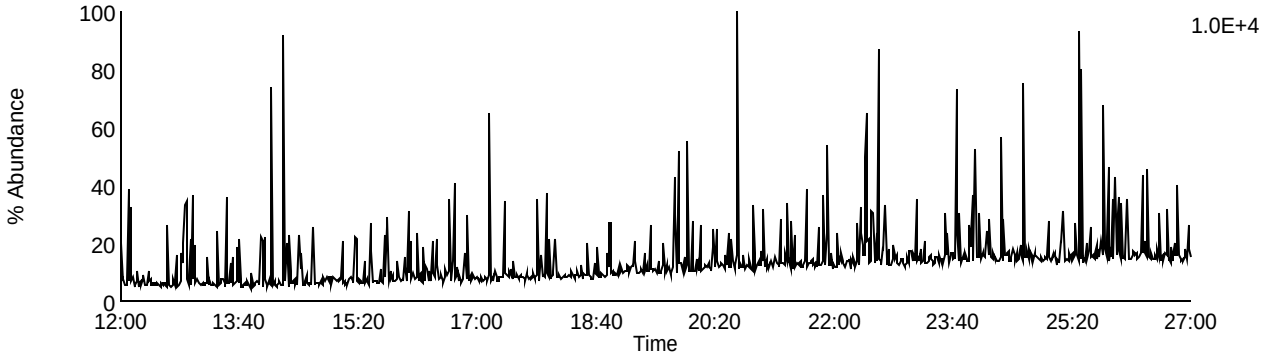
SAMP 10258392011 - SMT WI



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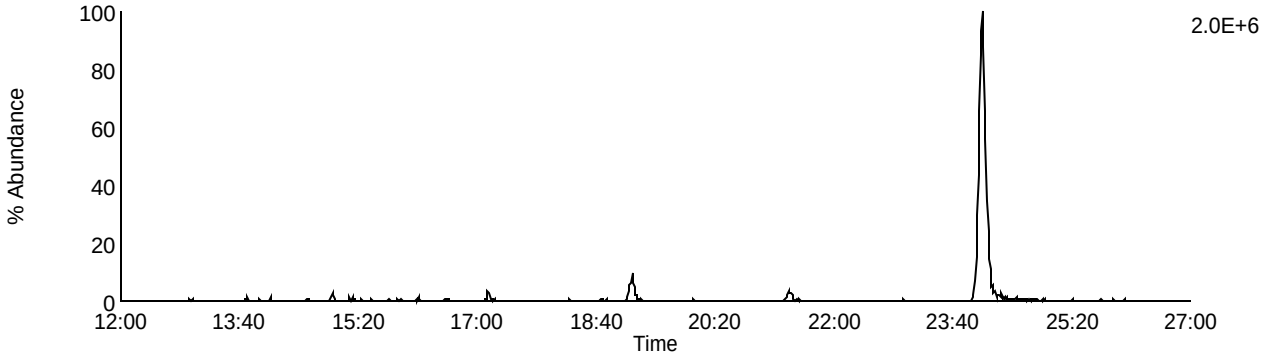
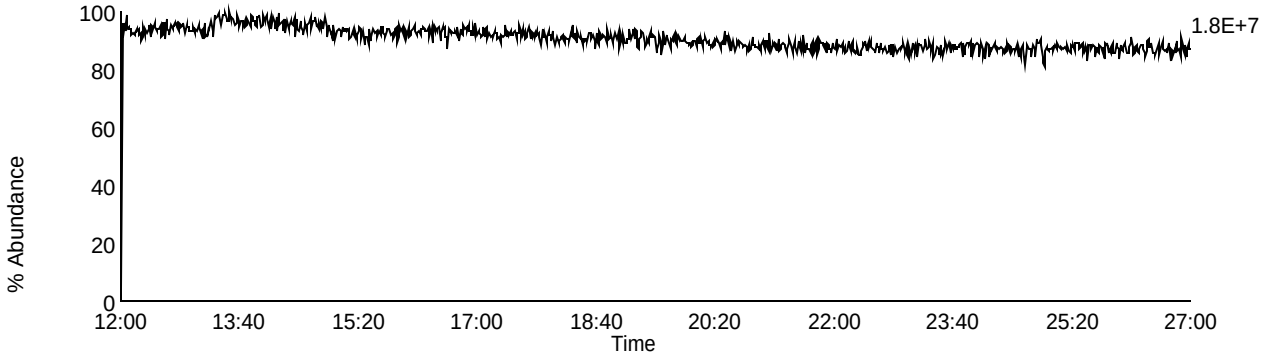
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G1 C5 - 318.9792
SAMP 10258392011 - SMT WI

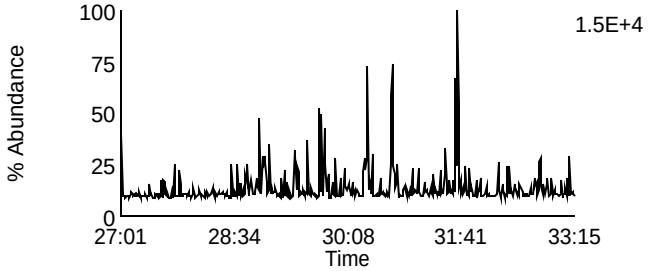


Homologue Group: Pentas

Data File Name: U140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392011 - SMT WI

Lab Sample ID: 10258392011
Client Sample ID: MAK104C
Instrument: 10MSHR06 (U)

Data File: U140307A_09 G2 C1 - 339.8597
SAMP 10258392011 - SMT WI



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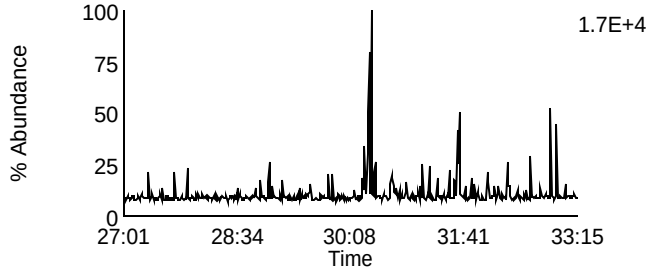
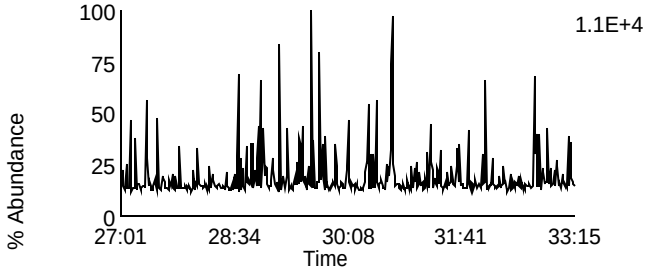
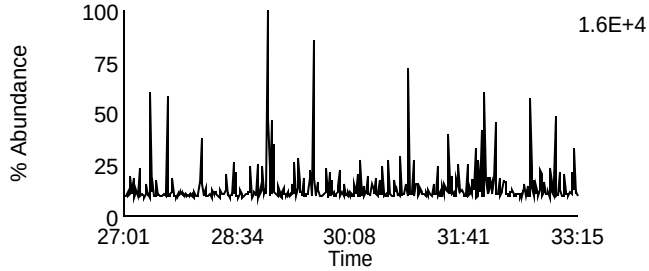
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C2 - 341.8567
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C8 - 355.8546
SAMP 10258392011 - SMT WI



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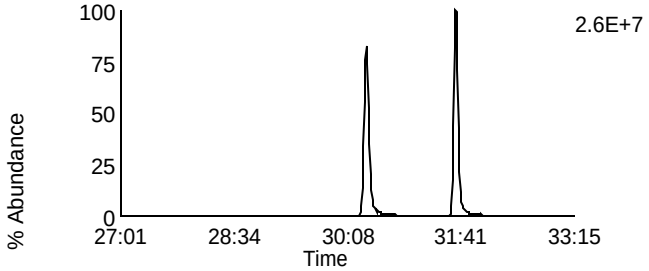
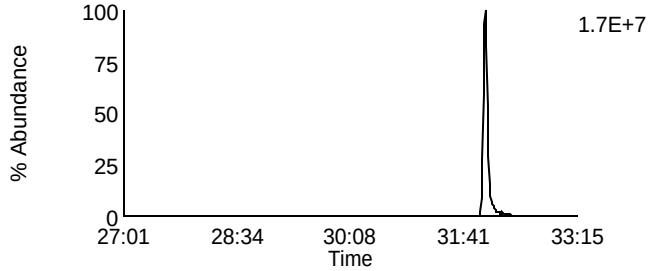
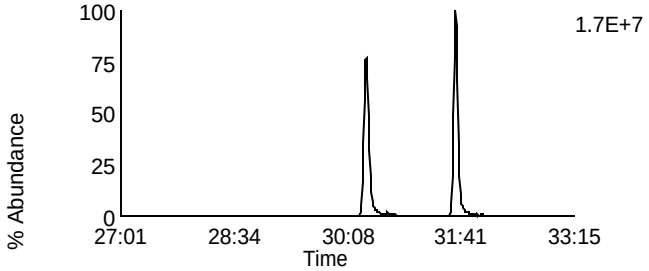
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C10 - 367.8948
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C5 - 353.8969
SAMP 10258392011 - SMT WI



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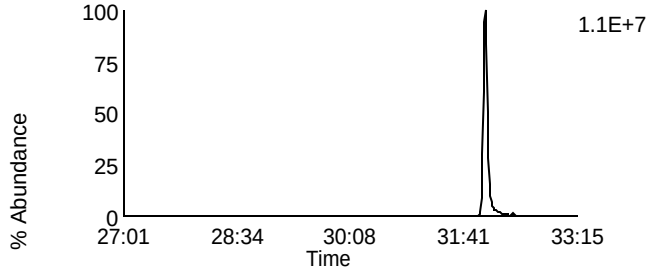
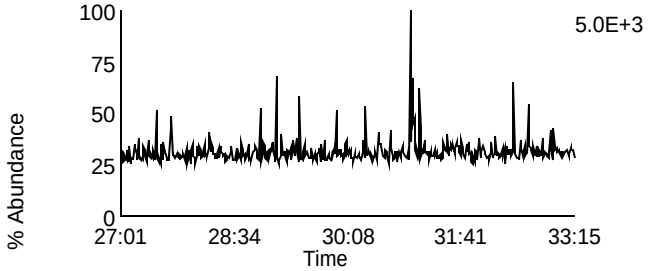
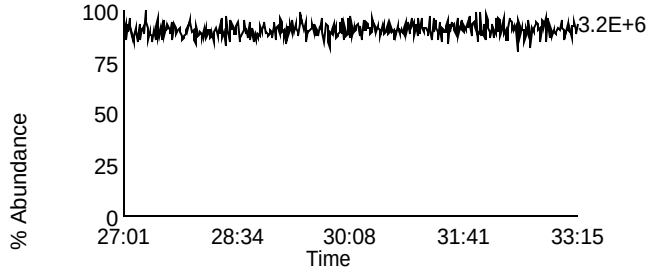
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C12 - 409.7974
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G2 C6 - 354.9792
SAMP 10258392011 - SMT WI

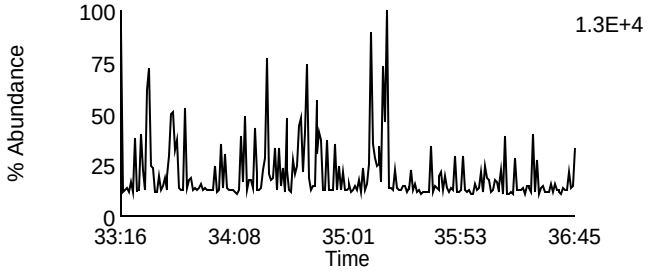


Homologue Group: Hexas

Data File Name: U140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392011 - SMT WI

Lab Sample ID: 10258392011
Client Sample ID: MAK104C
Instrument: 10MSHR06 (U)

Data File: U140307A_09 G3 C1 - 373.8207
SAMP 10258392011 - SMT WI



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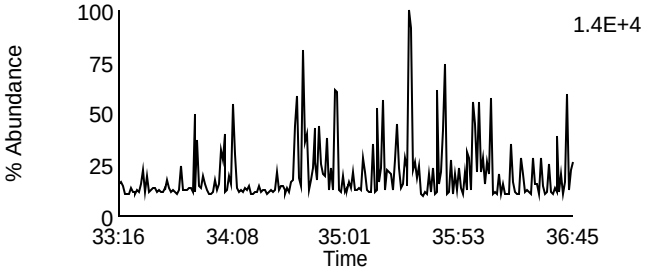
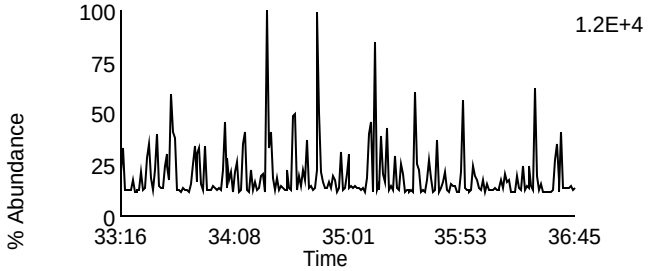
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G3 C2 - 375.8178
SAMP 10258392011 - SMT WI



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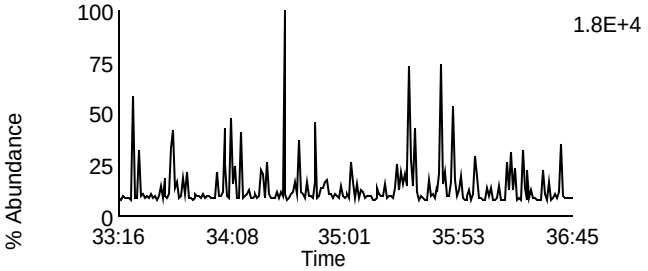
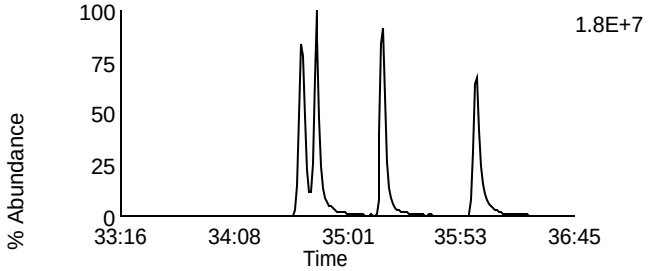
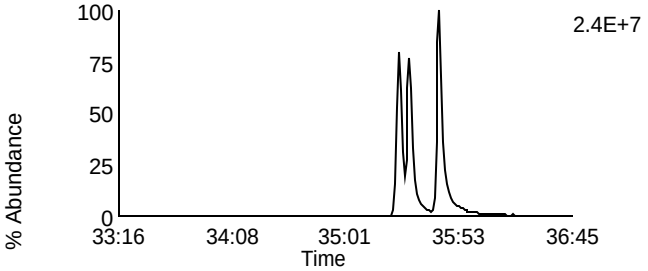
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G3 C5 - 383.8639
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G3 C9 - 401.8559
SAMP 10258392011 - SMT WI



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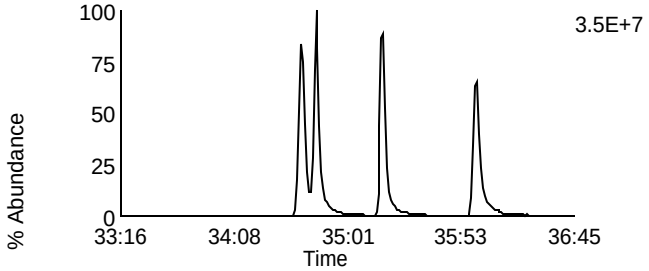
SAMP 10258392011 - SMT WI



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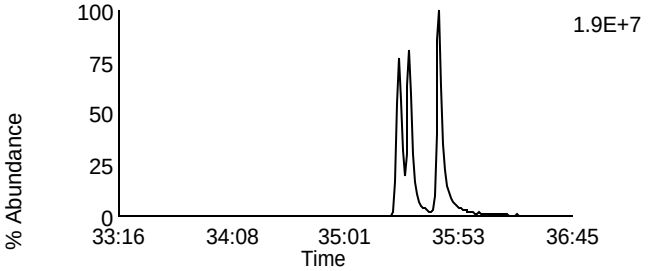
SAMP 10258392011 - SMT WI



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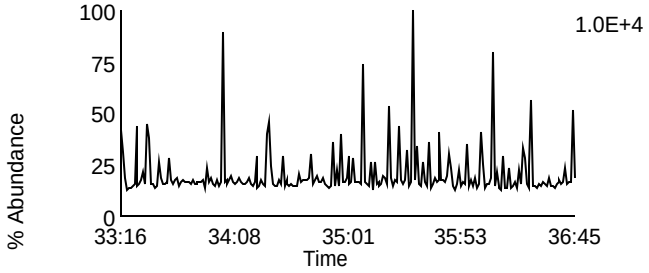
SAMP 10258392011 - SMT WI



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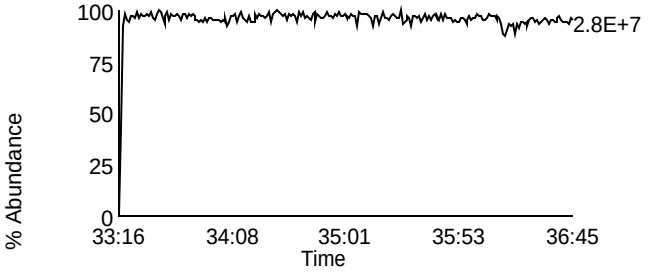
SAMP 10258392011 - SMT WI

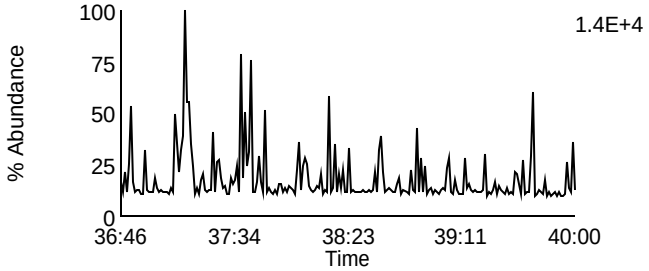


Homologue Group: Heptas

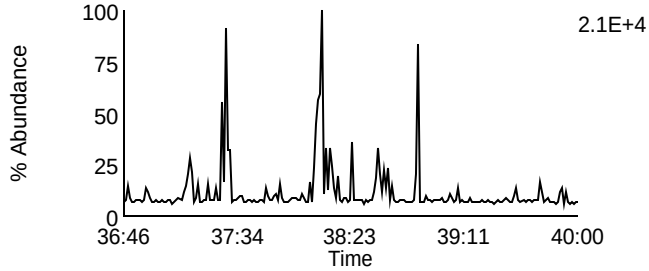
Data File Name: U140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392011 - SMT WI

Lab Sample ID: 10258392011
Client Sample ID: MAK104C
Instrument: 10MSHR06 (U)

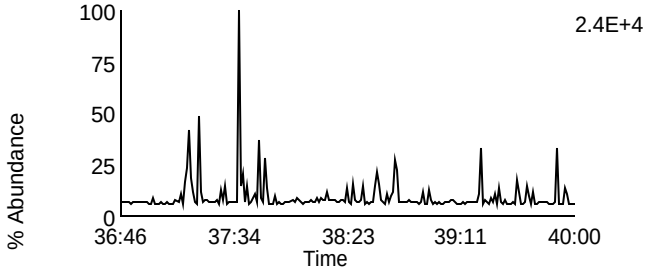
Data File: U140307A_09 G4 C3 - 407.7818
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G4 C8 - 423.7767
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G4 C4 - 409.7788
SAMP 10258392011 - SMT WI



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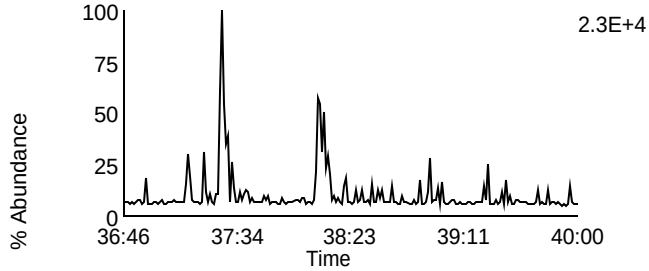
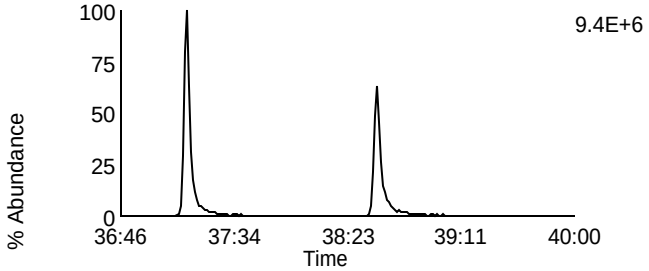
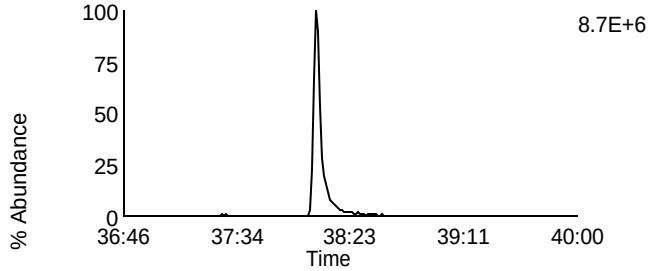
SAMP 10258392011 - SMT WI



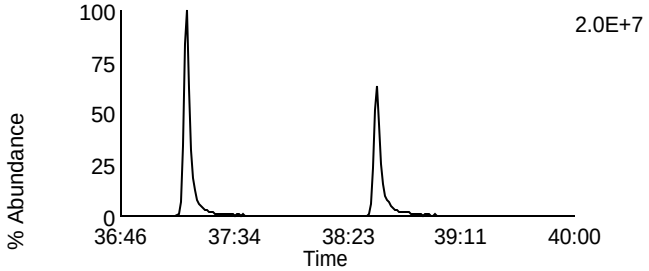
Data File: U140307A_09 G4 C6 - 417.825
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G4 C11 - 435.8169
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G4 C7 - 419.822
SAMP 10258392011 - SMT WI



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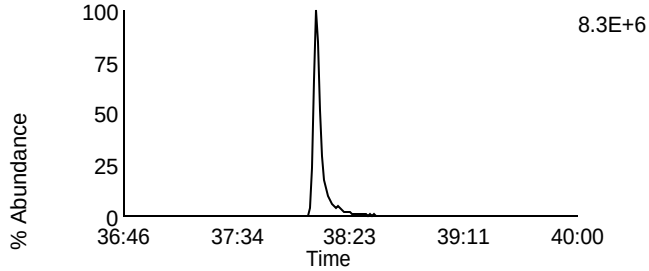
SAMP 10258392011 - SMT WI



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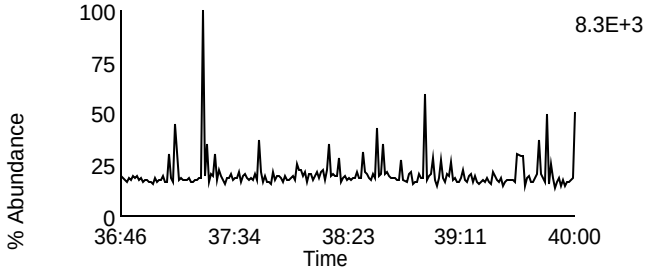
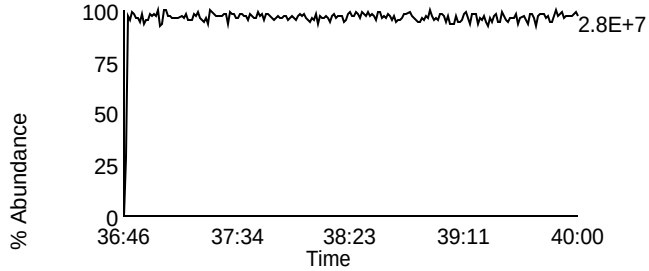
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G4 C1 - 380.976
SAMP 10258392011 - SMT WI

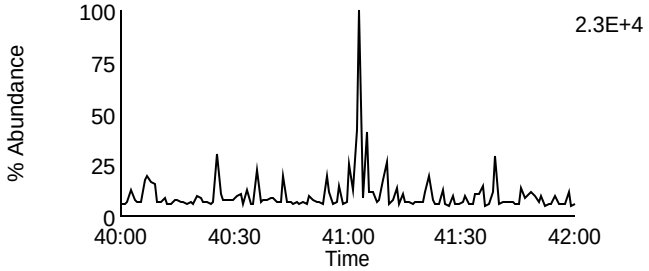


Homologue Group: Octas

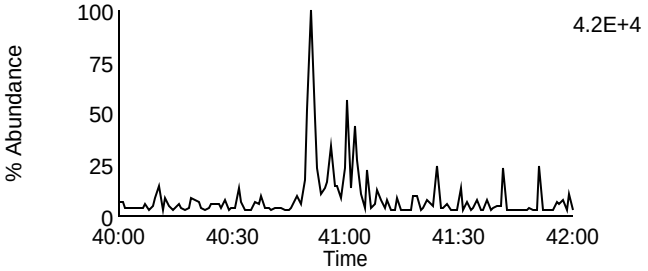
Data File Name: U140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392011 - SMT WI

Lab Sample ID: 10258392011
Client Sample ID: MAK104C
Instrument: 10MSHR06 (U)

Data File: U140307A_09 G5 C4 - 441.7428
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G5 C8 - 457.7377
SAMP 10258392011 - SMT WI



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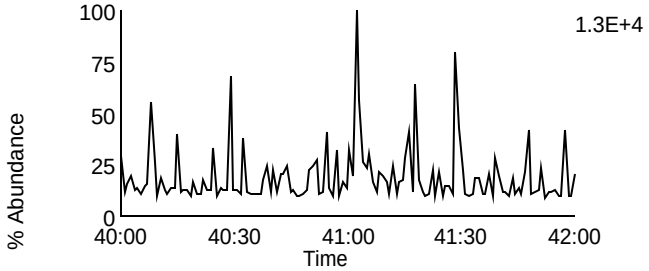
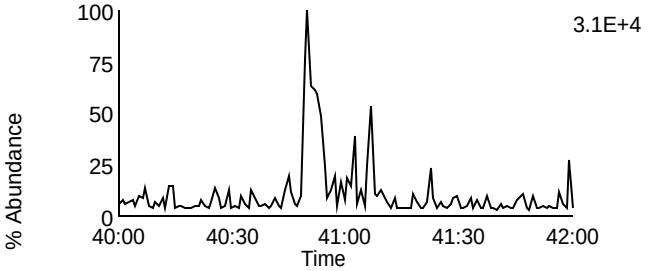
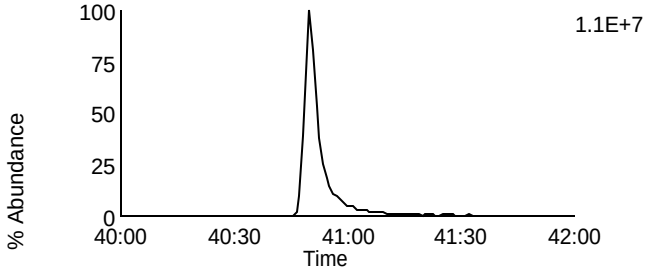
SAMP 10258392011 - SMT WI



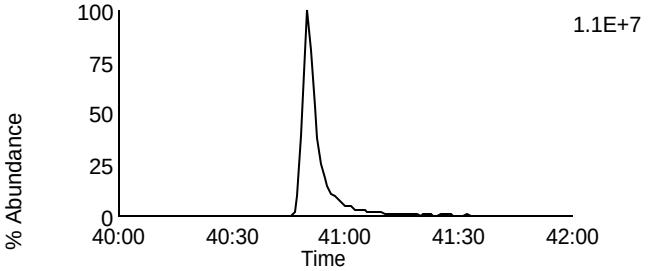
Data File: U140307A_09 G5 C9 - 459.7347
SAMP 10258392011 - SMT WI



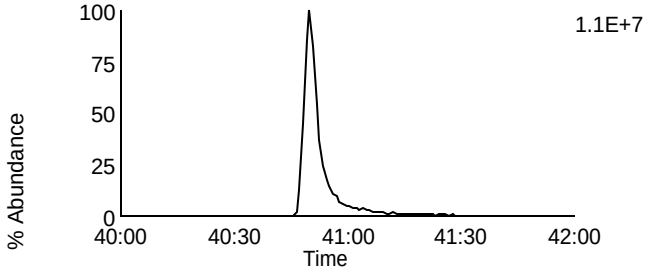
Data File: U140307A_09 G5 C11 - 469.7779
SAMP 10258392011 - SMT WI



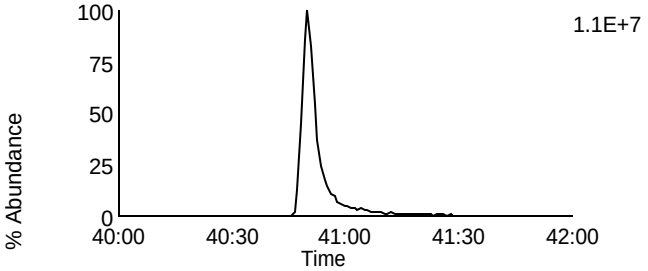
Data File: U140307A_09 G5 C11 - 469.7779
SAMP 10258392011 - SMT WI



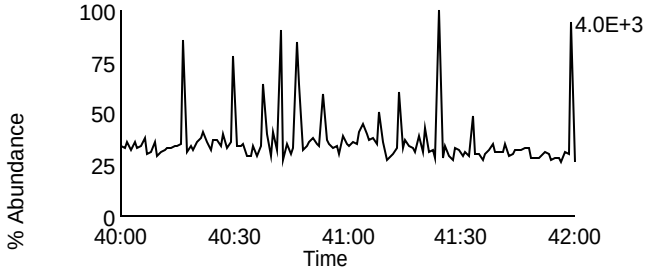
Data File: U140307A_09 G5 C12 - 471.7749
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G5 C12 - 471.7749
SAMP 10258392011 - SMT WI



Data File: U140307A_09 G5 C13 - 513.6775
SAMP 10258392011 - SMT WI



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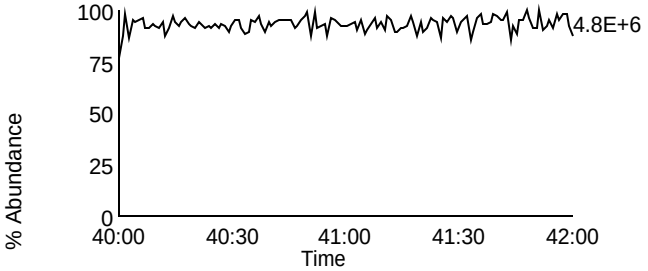
SAMP 10258392011 - SMT WI

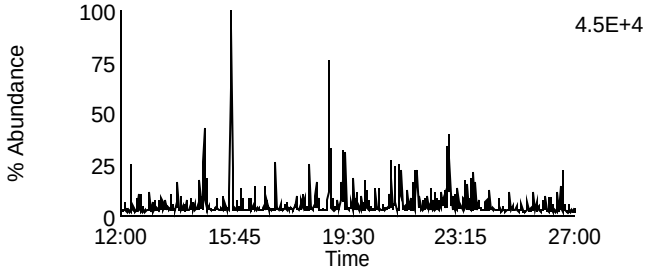


Homologue Group: Tetras

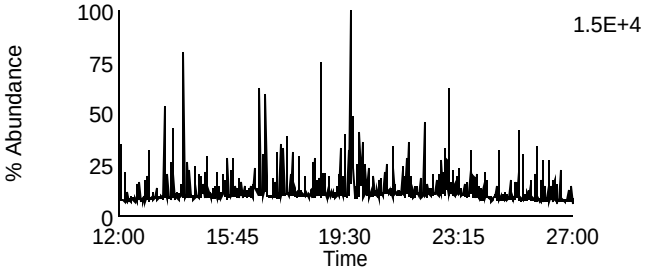
Data File Name: U140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392012 - SMT WI

Lab Sample ID: 10258392012
Client Sample ID: MAK105C
Instrument: 10MSHR06 (U)

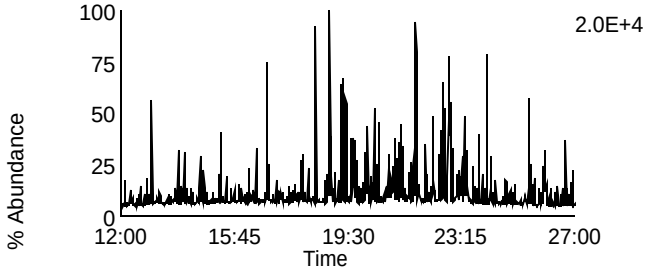
Data File: U140307A_10 G1 C1 - 303.9016
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C7 - 319.8965
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C2 - 305.8987
SAMP 10258392012 - SMT WI



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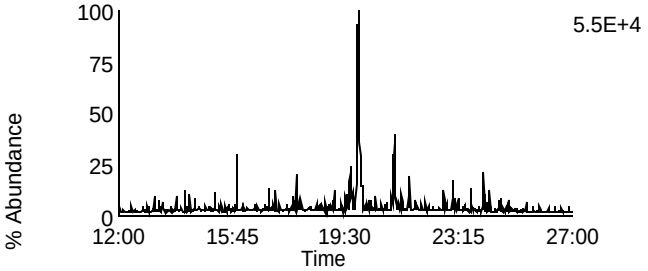
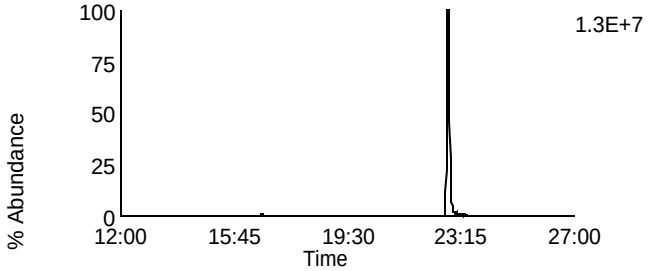
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C3 - 315.9418
SAMP 10258392012 - SMT WI



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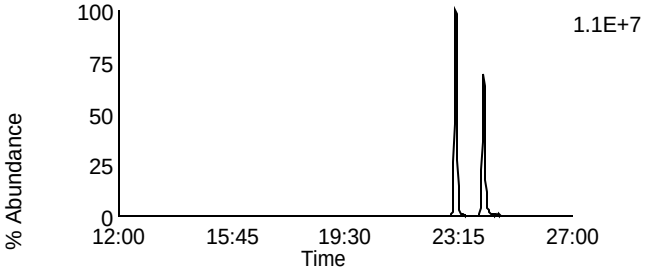
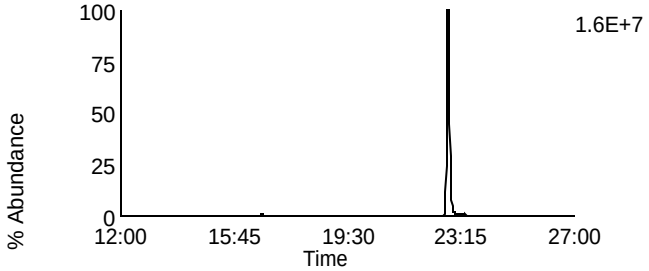
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C4 - 317.9389
SAMP 10258392012 - SMT WI



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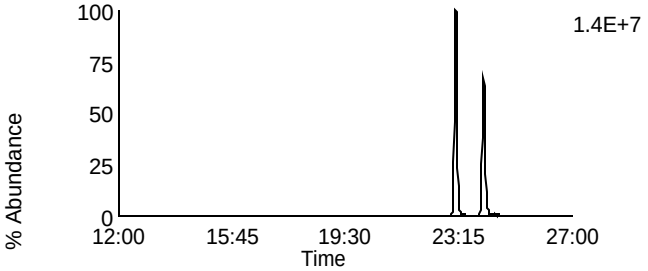
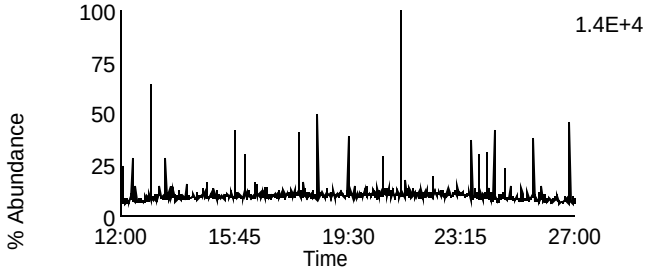
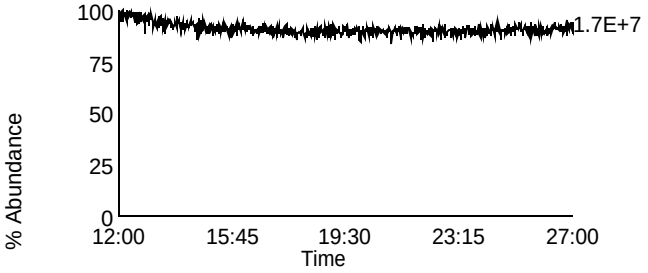
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C14 - 375.8364
SAMP 10258392012 - SMT WI



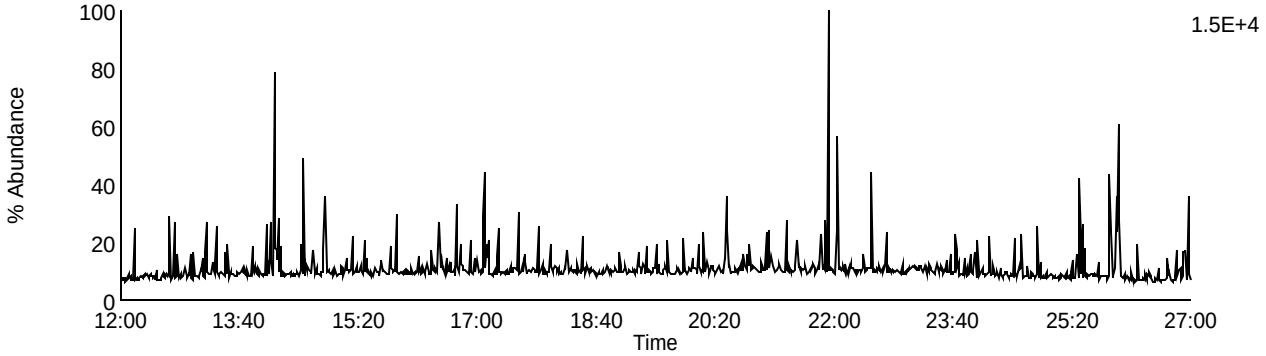
Data File: U140307A_10 G1 C5 - 318.9792
SAMP 10258392012 - SMT WI



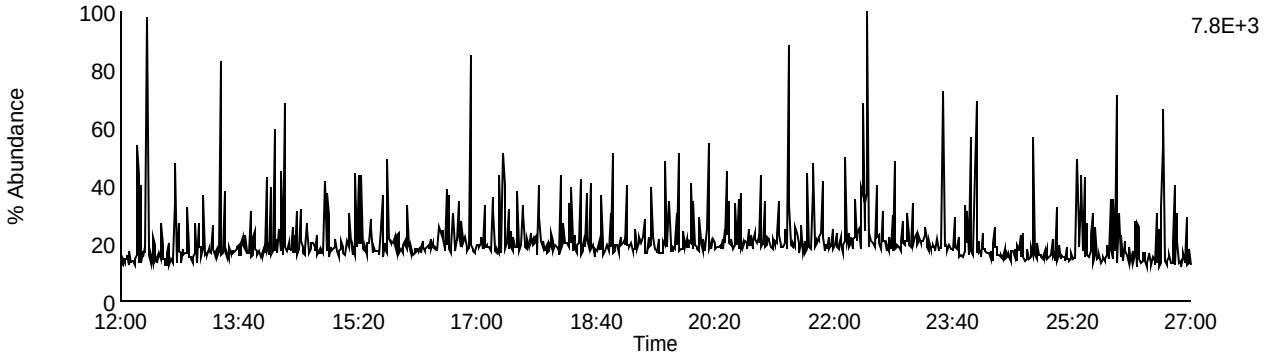
Homologue Group: Penta & Cleanup

Data File Name: U140307A_10	Lab Sample ID: 10258392012
Date Acquired: 3/7/2014	Client Sample ID: MAK105C
Sample Description: SAMP 10258392012 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140307A_10 G1 C12 - 339.8597
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C13 - 341.8567
SAMP 10258392012 - SMT WI



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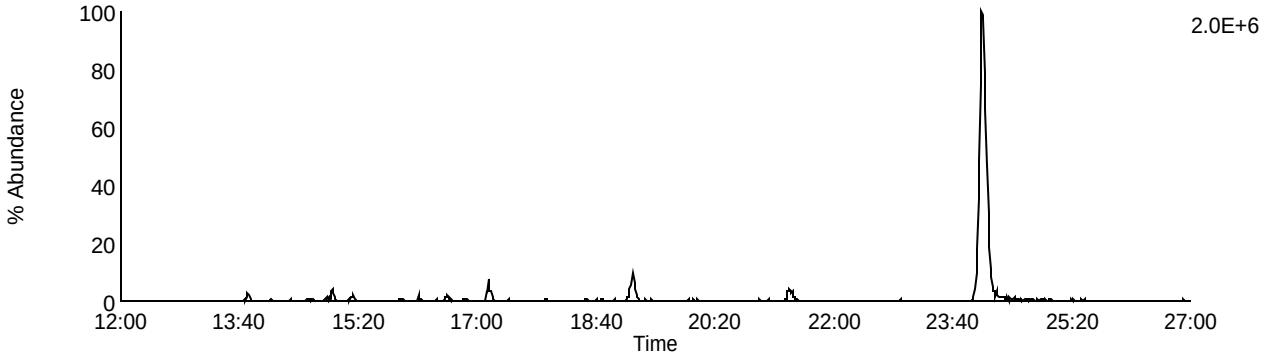
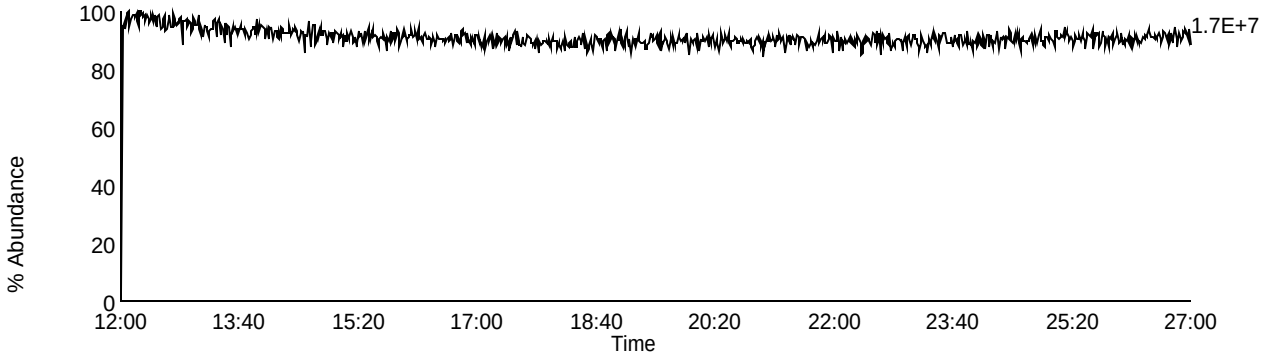
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G1 C5 - 318.9792
SAMP 10258392012 - SMT WI

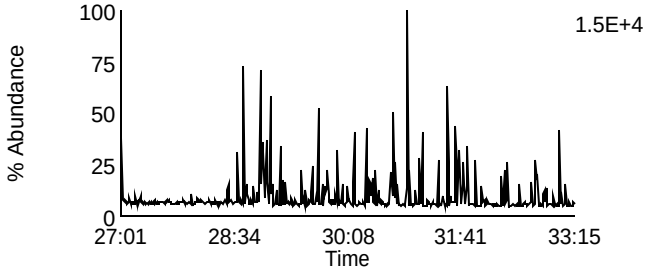


Homologue Group: Pentas

Data File Name: U140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392012 - SMT WI

Lab Sample ID: 10258392012
Client Sample ID: MAK105C
Instrument: 10MSHR06 (U)

Data File: U140307A_10 G2 C1 - 339.8597
SAMP 10258392012 - SMT WI



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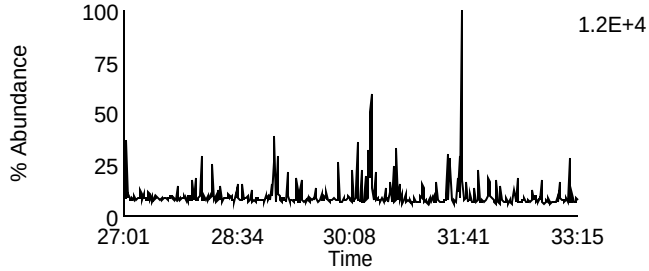
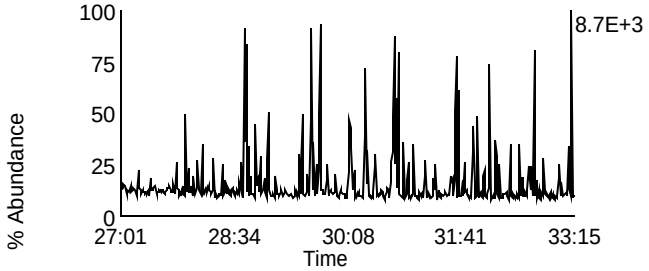
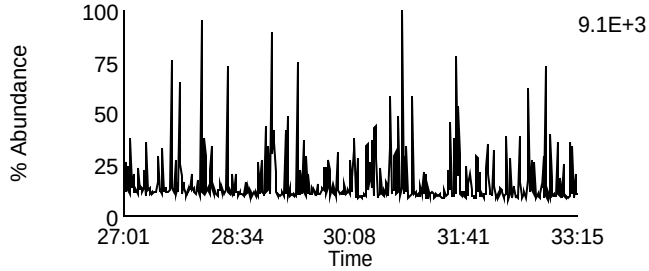
SAMP 10258392012 - SMT WI



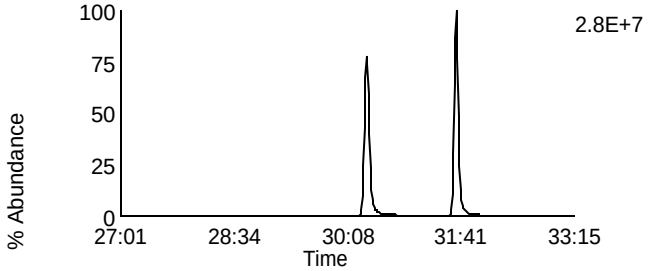
Data File: U140307A_10 G2 C2 - 341.8567
SAMP 10258392012 - SMT WI



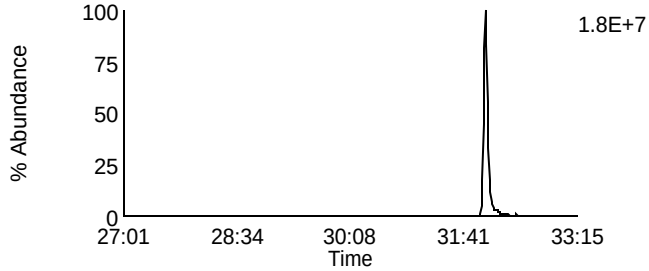
Data File: U140307A_10 G2 C8 - 355.8546
SAMP 10258392012 - SMT WI



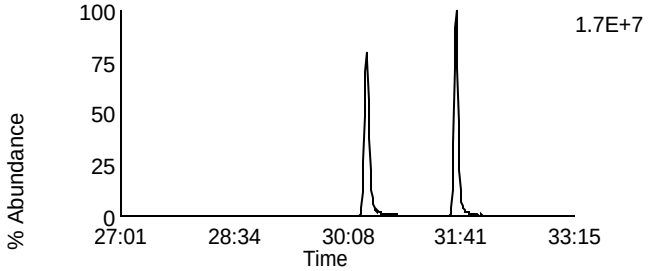
Data File: U140307A_10 G2 C3 - 351.8999
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G2 C10 - 367.8948
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G2 C5 - 353.8969
SAMP 10258392012 - SMT WI



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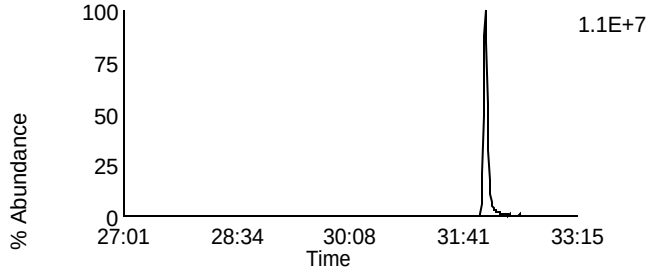
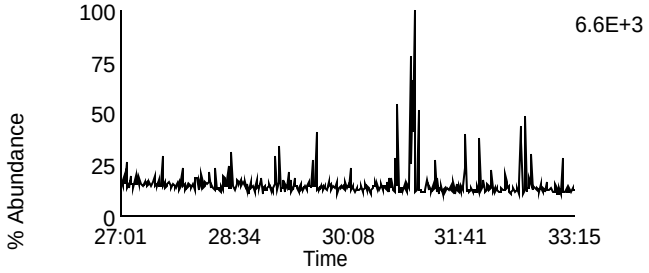
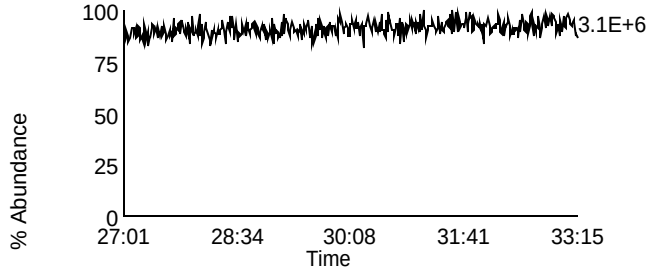
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G2 C12 - 409.7974
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G2 C6 - 354.9792
SAMP 10258392012 - SMT WI

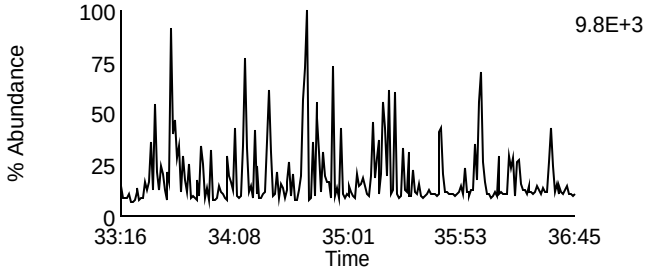


Homologue Group: Hexas

Data File Name: U140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392012 - SMT WI

Lab Sample ID: 10258392012
Client Sample ID: MAK105C
Instrument: 10MSHR06 (U)

Data File: U140307A_10 G3 C1 - 373.8207
SAMP 10258392012 - SMT WI



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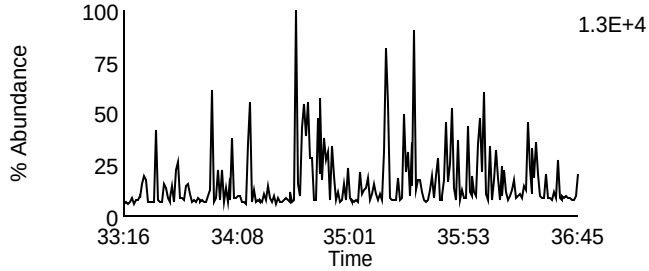
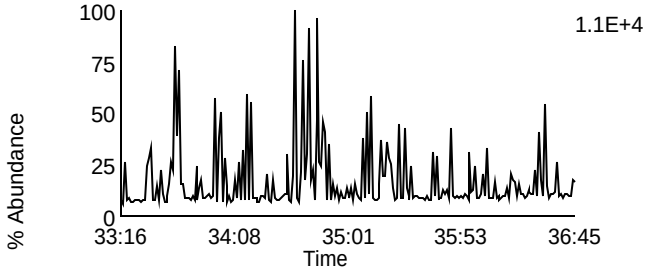
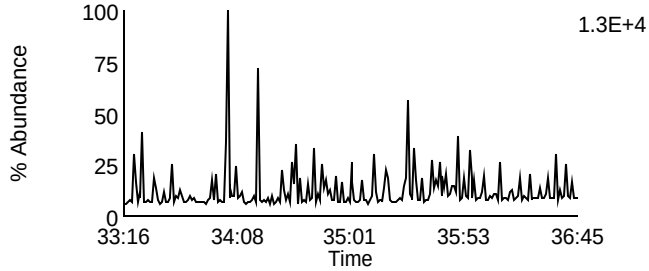
SAMP 10258392012 - SMT WI



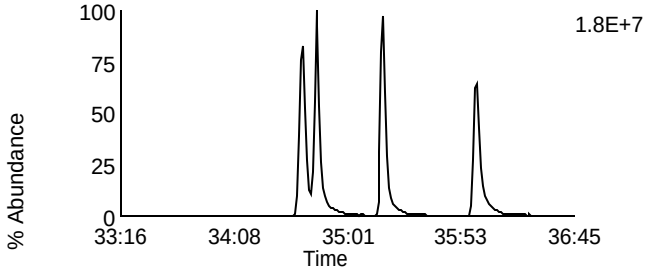
Data File: U140307A_10 G3 C2 - 375.8178
SAMP 10258392012 - SMT WI



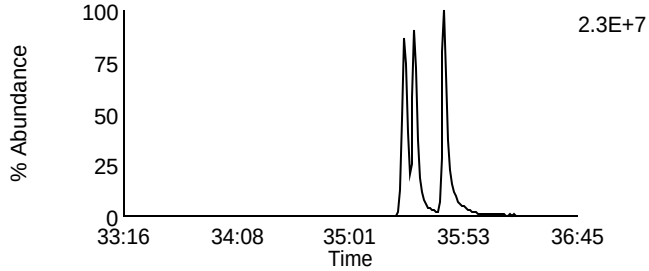
Data File: U140307A_10 G3 C8 - 391.8127
SAMP 10258392012 - SMT WI



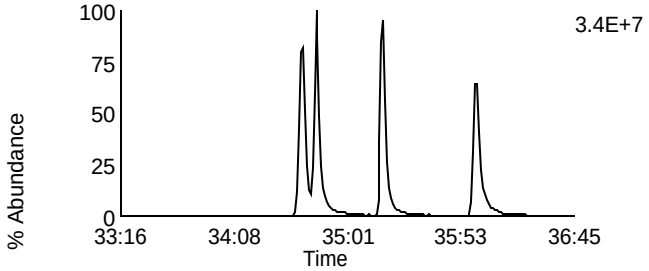
Data File: U140307A_10 G3 C5 - 383.8639
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G3 C9 - 401.8559
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G3 C6 - 385.861
SAMP 10258392012 - SMT WI



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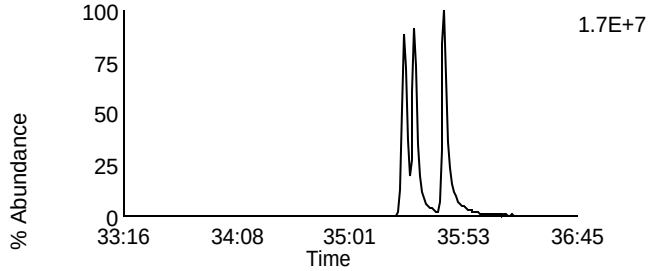
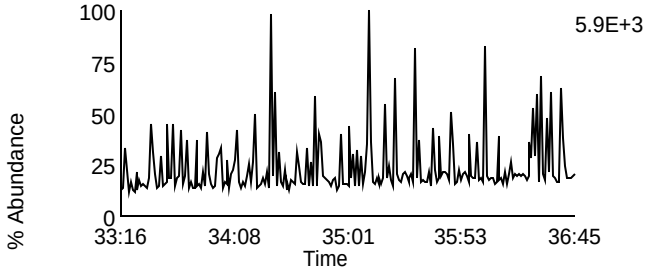
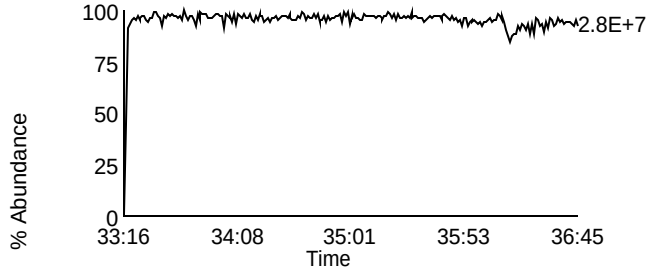
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G3 C11 - 445.7555
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G3 C3 - 380.976
SAMP 10258392012 - SMT WI

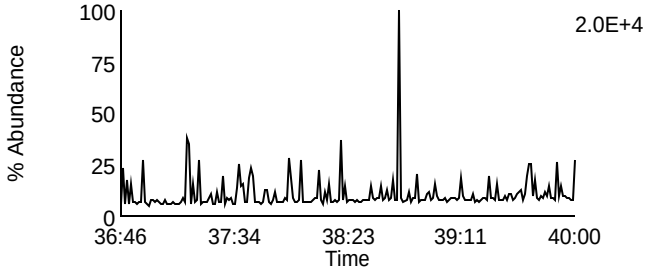


Homologue Group: Heptas

Data File Name: U140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392012 - SMT WI

Lab Sample ID: 10258392012
Client Sample ID: MAK105C
Instrument: 10MSHR06 (U)

Data File: U140307A_10 G4 C3 - 407.7818
SAMP 10258392012 - SMT WI



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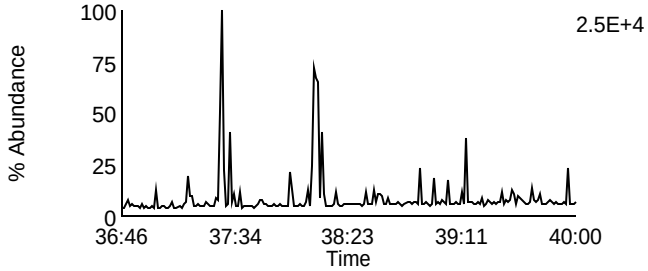
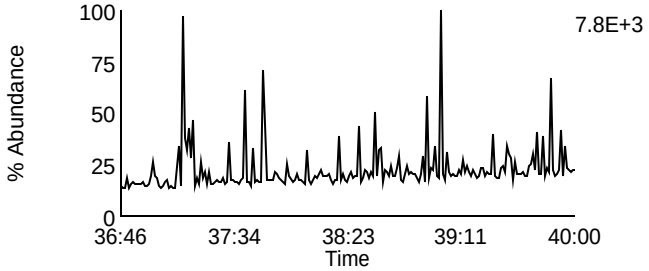
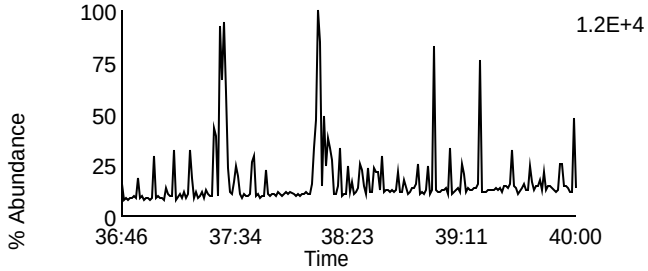
SAMP 10258392012 - SMT WI



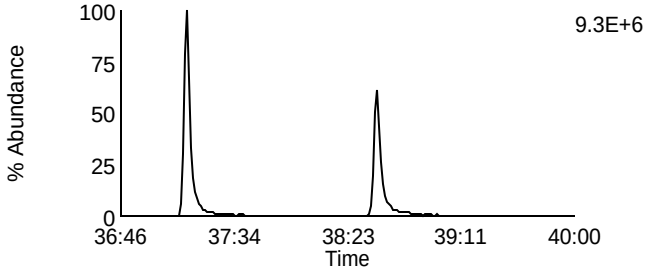
Data File: U140307A_10 G4 C4 - 409.7788
SAMP 10258392012 - SMT WI



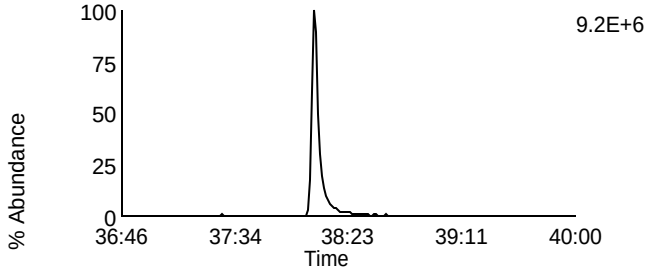
Data File: U140307A_10 G4 C9 - 425.7737
SAMP 10258392012 - SMT WI



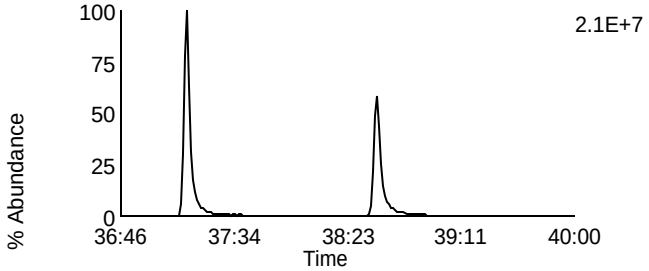
Data File: U140307A_10 G4 C6 - 417.825
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G4 C11 - 435.8169
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G4 C7 - 419.822
SAMP 10258392012 - SMT WI



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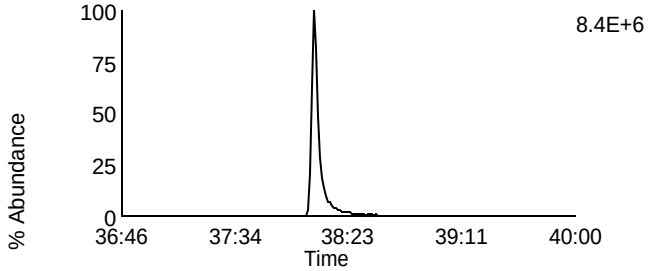
SAMP 10258392012 - SMT WI



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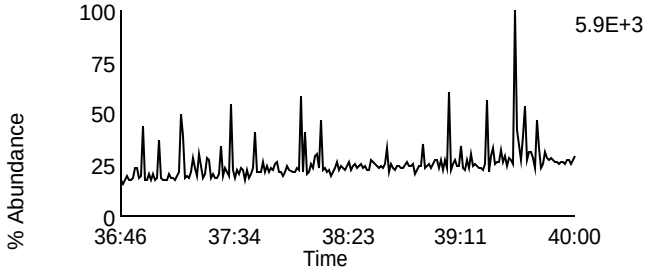
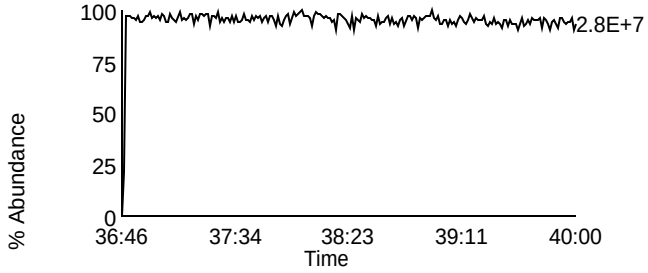
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G4 C1 - 380.976
SAMP 10258392012 - SMT WI

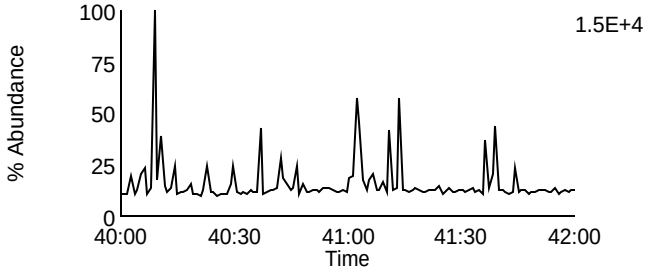


Homologue Group: Octas

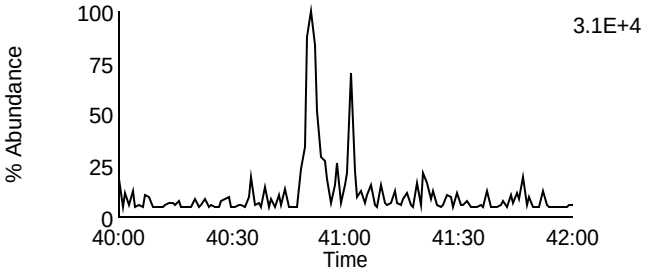
Data File Name: U140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392012 - SMT WI

Lab Sample ID: 10258392012
Client Sample ID: MAK105C
Instrument: 10MSHR06 (U)

Data File: U140307A_10 G5 C4 - 441.7428
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G5 C8 - 457.7377
SAMP 10258392012 - SMT WI



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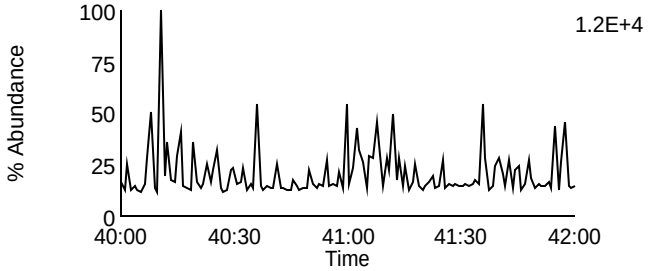
SAMP 10258392012 - SMT WI



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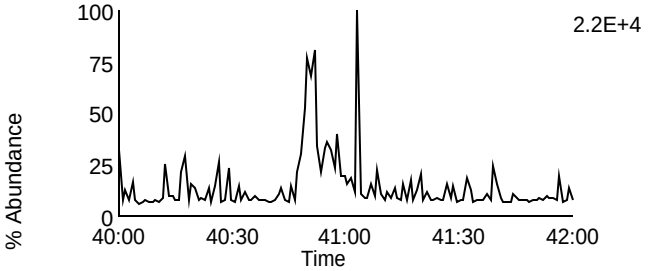
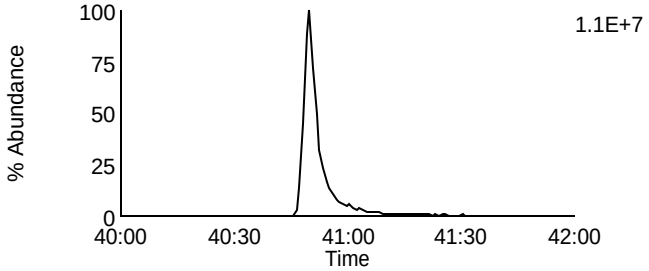
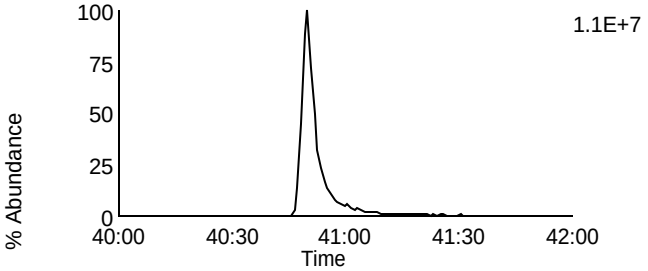
SAMP 10258392012 - SMT WI



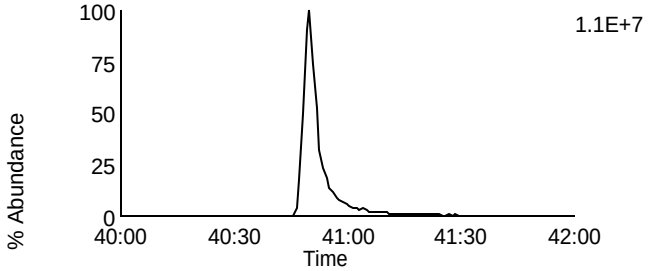
Data File: U140307A_10 G5 C11 - 469.7779
SAMP 10258392012 - SMT WI



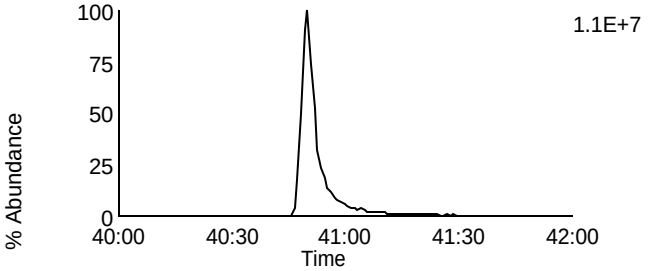
Data File: U140307A_10 G5 C11 - 469.7779
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G5 C12 - 471.7749
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G5 C12 - 471.7749
SAMP 10258392012 - SMT WI



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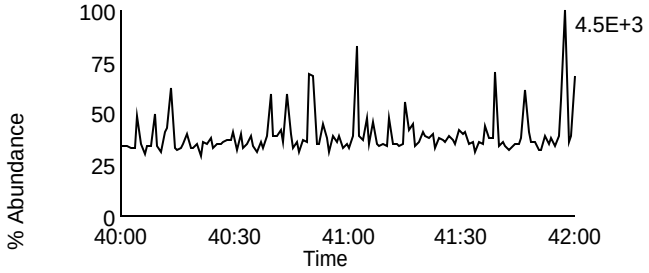
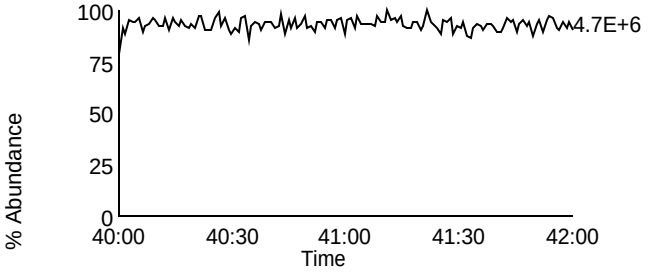
SAMP 10258392012 - SMT WI



Data File: U140307A_10 G5 C2 - 430.9728
SAMP 10258392012 - SMT WI

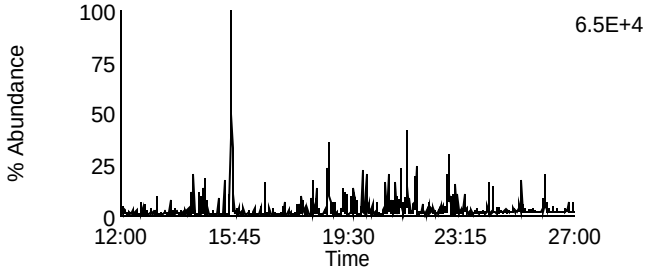


Homologue Group: Tetras

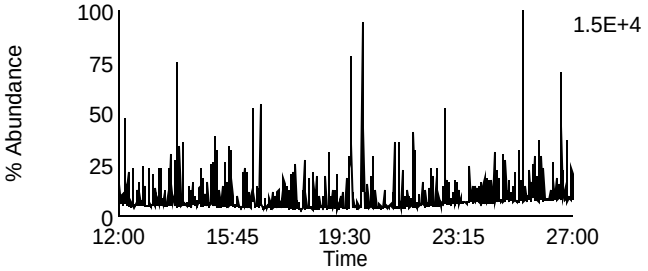
Data File Name: U140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392013 - SMT WI

Lab Sample ID: 10258392013
Client Sample ID: MAK106C
Instrument: 10MSHR06 (U)

Data File: U140307A_11 G1 C1 - 303.9016
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C7 - 319.8965
SAMP 10258392013 - SMT WI



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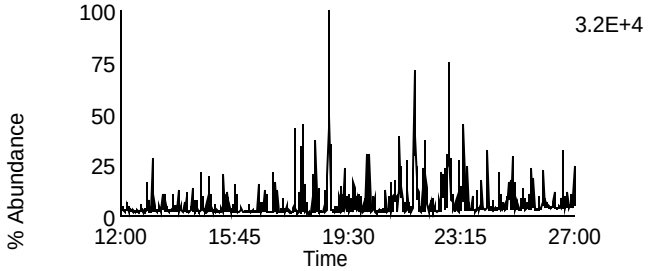
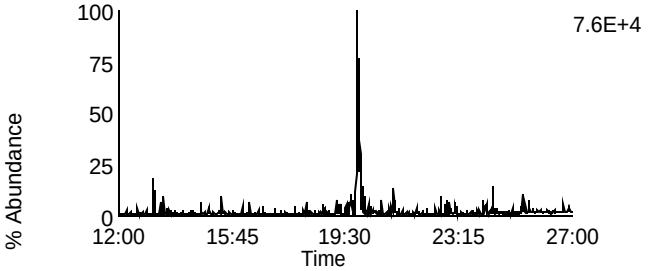
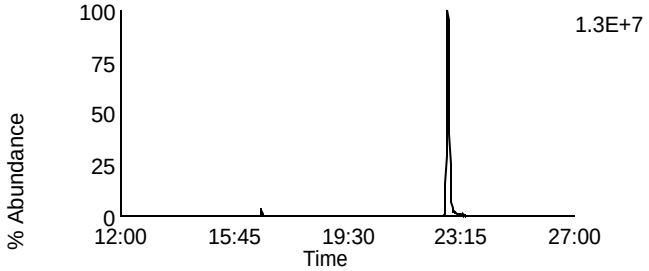
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C8 - 321.8936
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C3 - 315.9418
SAMP 10258392013 - SMT WI



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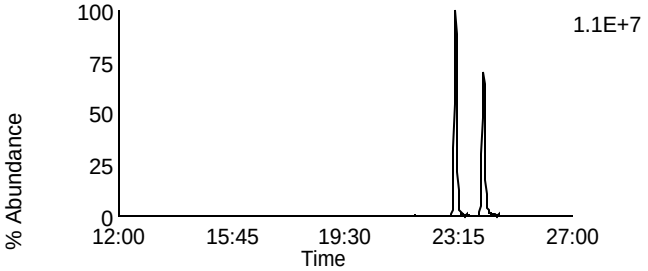
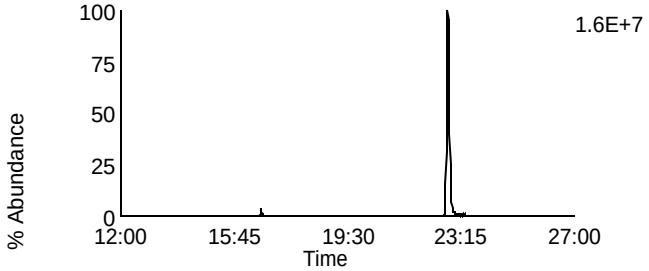
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C4 - 317.9389
SAMP 10258392013 - SMT WI



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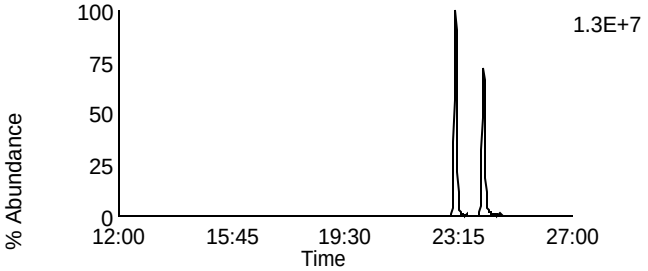
SAMP 10258392013 - SMT WI



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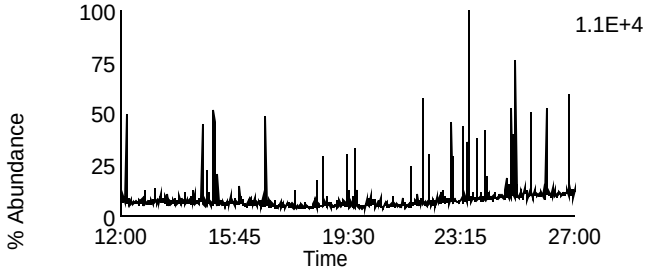
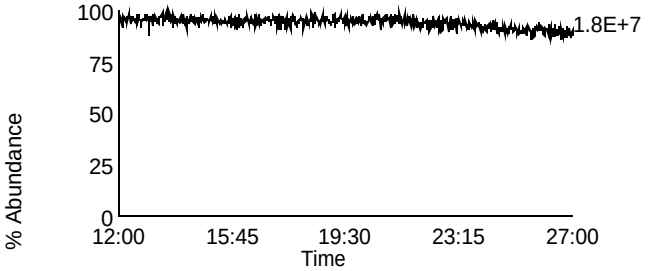
SAMP 10258392013 - SMT WI



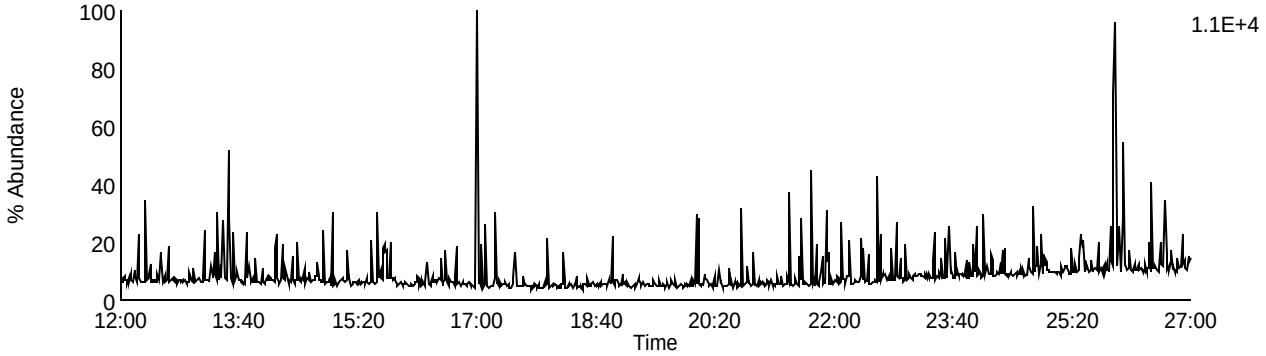
Data File: U140307A_11 G1 C5 - 318.9792
SAMP 10258392013 - SMT WI



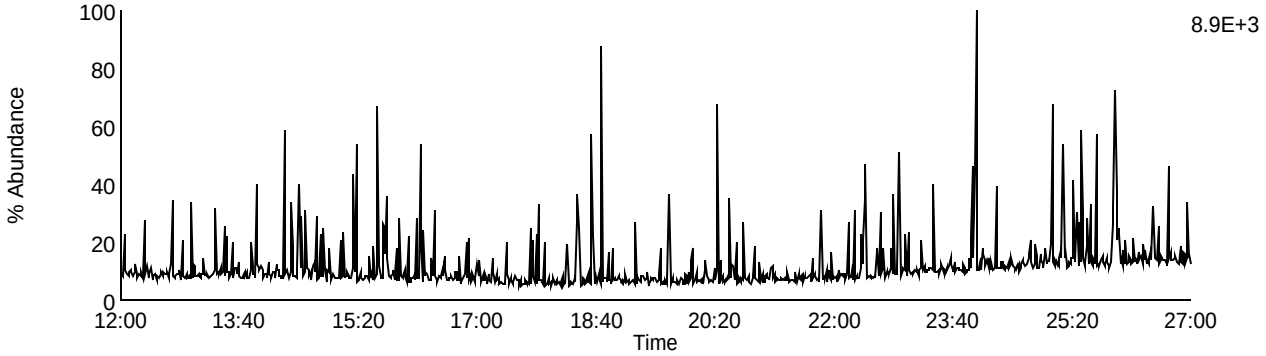
Homologue Group: Penta & Cleanup

Data File Name: U140307A_11	Lab Sample ID: 10258392013
Date Acquired: 3/7/2014	Client Sample ID: MAK106C
Sample Description: SAMP 10258392013 - SMT WI	Instrument: 10MSHR06 (U)

Data File: U140307A_11 G1 C12 - 339.8597
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C13 - 341.8567
SAMP 10258392013 - SMT WI



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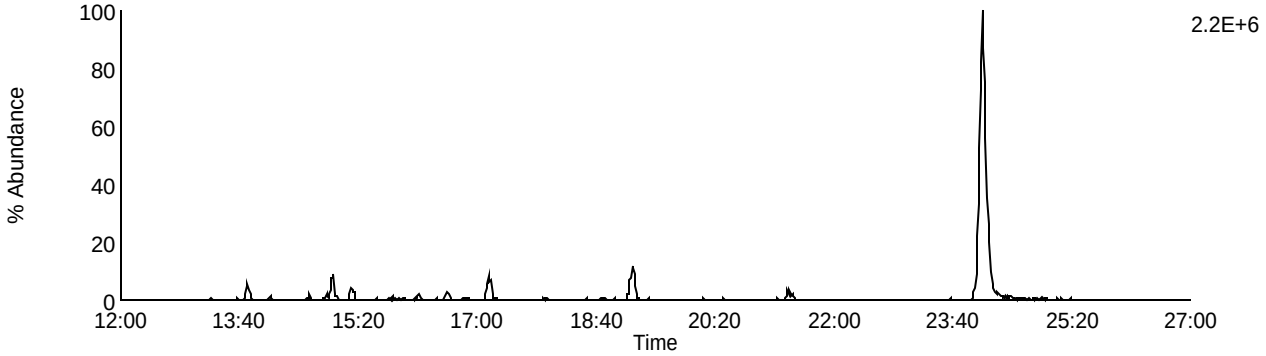
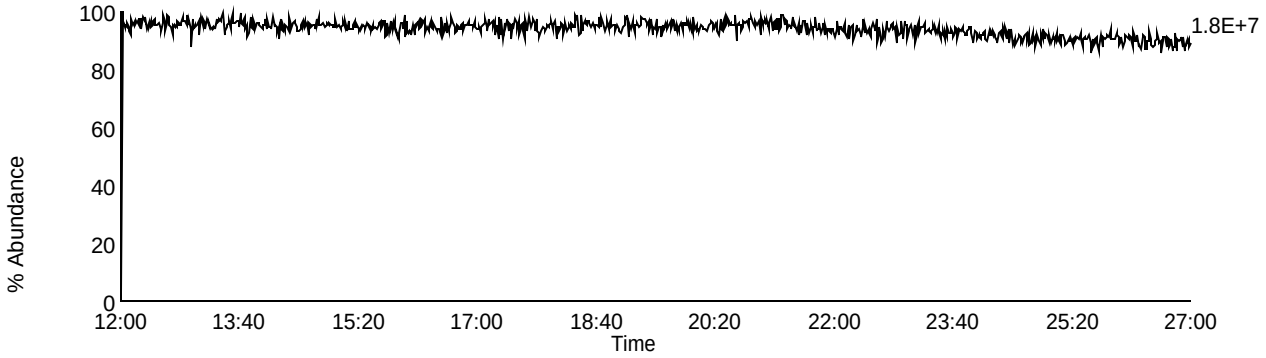
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G1 C5 - 318.9792
SAMP 10258392013 - SMT WI

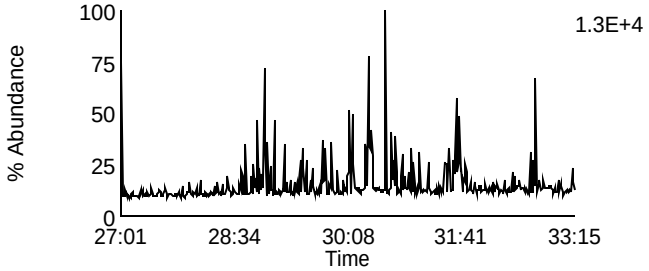


Homologue Group: Pentas

Data File Name: U140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392013 - SMT WI

Lab Sample ID: 10258392013
Client Sample ID: MAK106C
Instrument: 10MSHR06 (U)

Data File: U140307A_11 G2 C1 - 339.8597
SAMP 10258392013 - SMT WI



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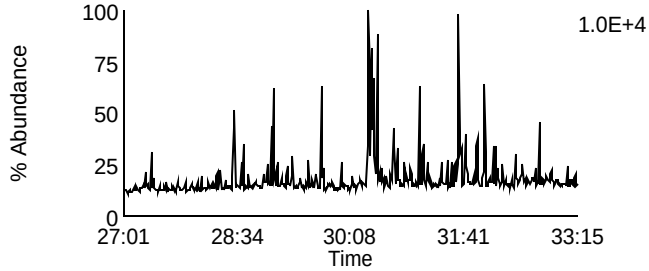
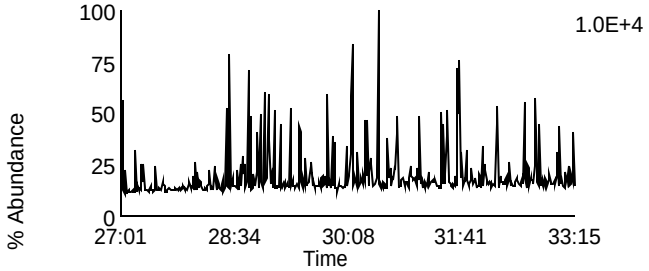
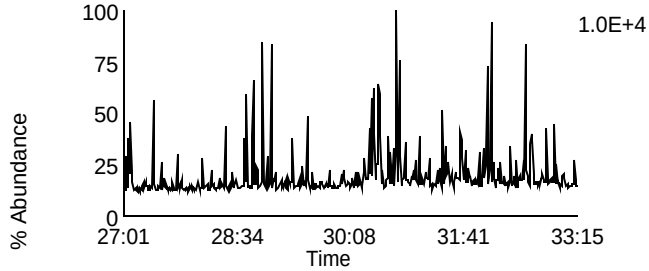
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G2 C2 - 341.8567
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G2 C8 - 355.8546
SAMP 10258392013 - SMT WI



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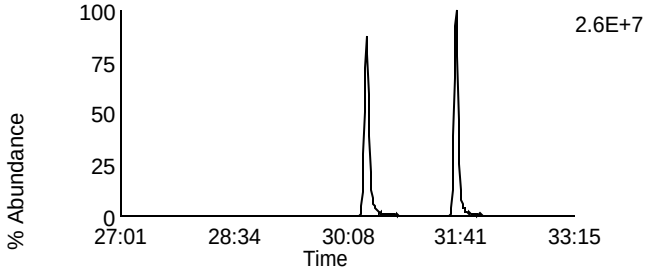
SAMP 10258392013 - SMT WI



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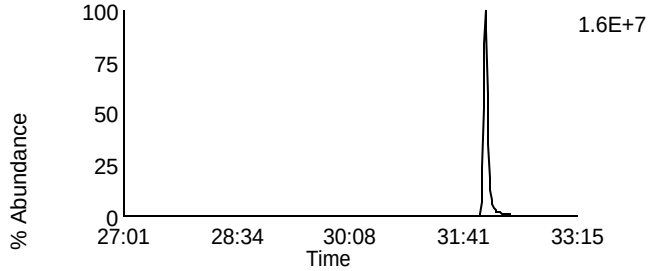
SAMP 10258392013 - SMT WI



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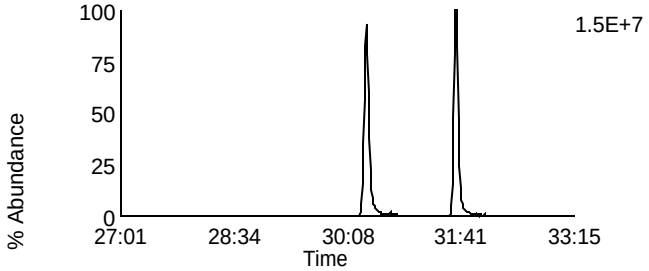
SAMP 10258392013 - SMT WI



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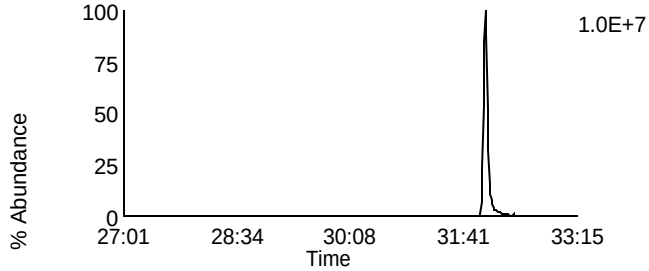
SAMP 10258392013 - SMT WI



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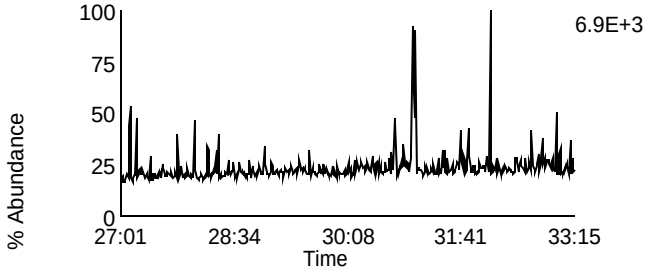
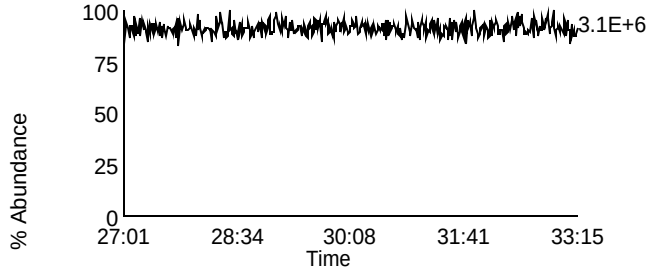
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G2 C6 - 354.9792
SAMP 10258392013 - SMT WI

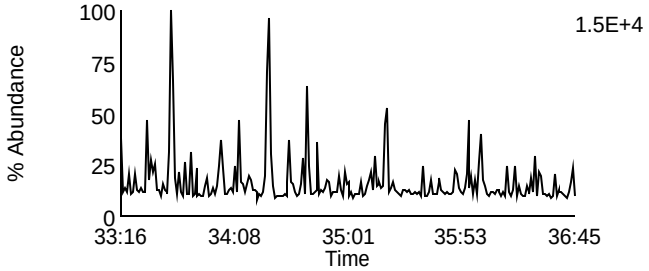


Homologue Group: Hexas

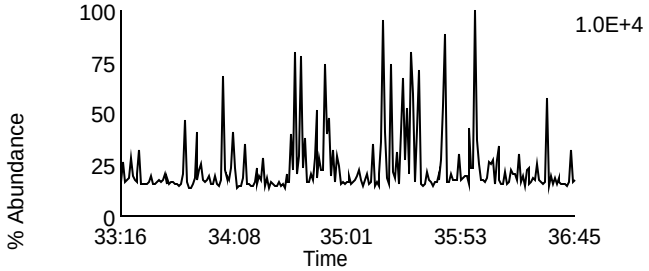
Data File Name: U140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392013 - SMT WI

Lab Sample ID: 10258392013
Client Sample ID: MAK106C
Instrument: 10MSHR06 (U)

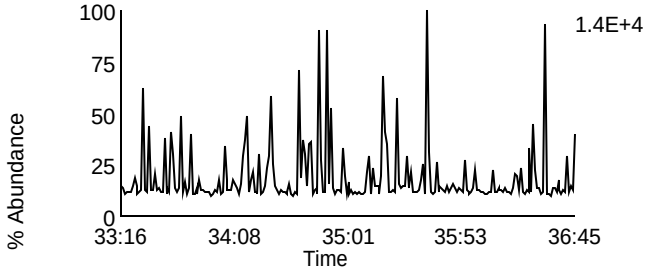
Data File: U140307A_11 G3 C1 - 373.8207
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G3 C7 - 389.8156
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G3 C2 - 375.8178
SAMP 10258392013 - SMT WI



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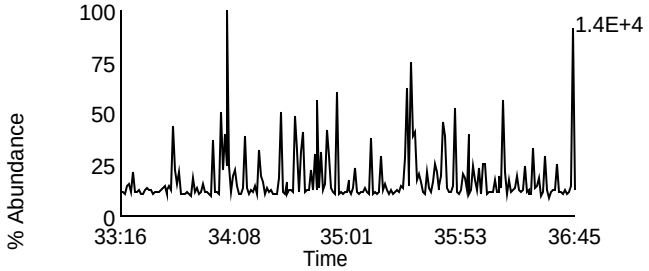
SAMP 10258392013 - SMT WI



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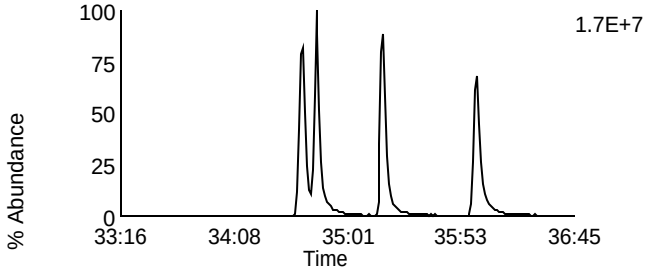
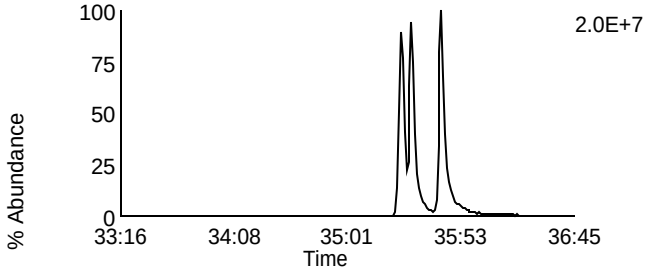
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G3 C9 - 401.8559
SAMP 10258392013 - SMT WI



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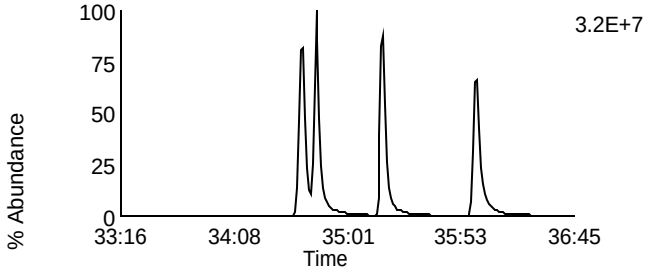
SAMP 10258392013 - SMT WI



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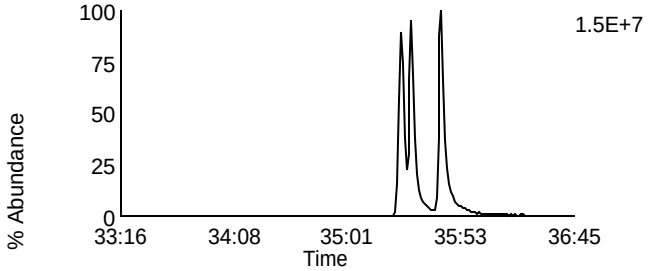
SAMP 10258392013 - SMT WI



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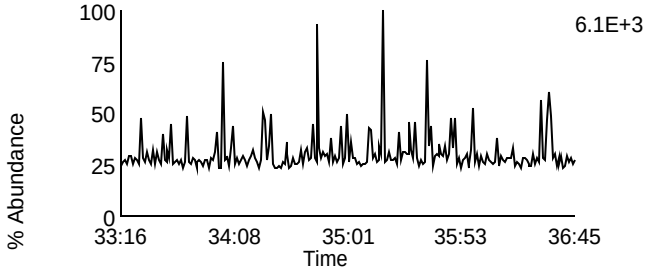
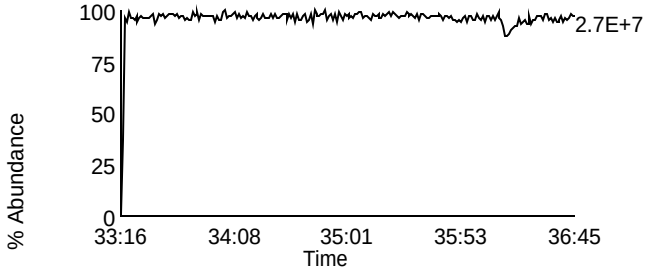
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G3 C3 - 380.976
SAMP 10258392013 - SMT WI

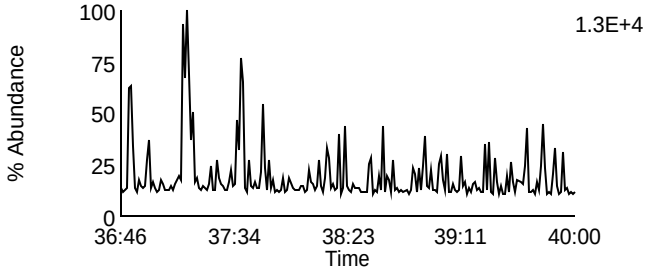


Homologue Group: Heptas

Data File Name: U140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392013 - SMT WI

Lab Sample ID: 10258392013
Client Sample ID: MAK106C
Instrument: 10MSHR06 (U)

Data File: U140307A_11 G4 C3 - 407.7818
SAMP 10258392013 - SMT WI



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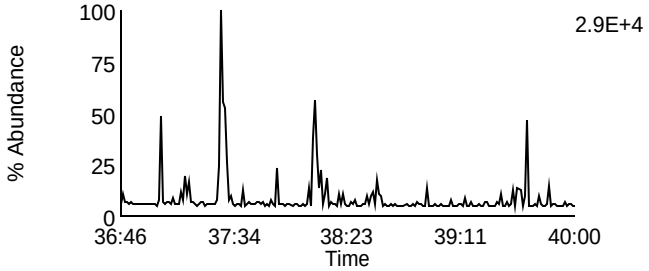
SAMP 10258392013 - SMT WI



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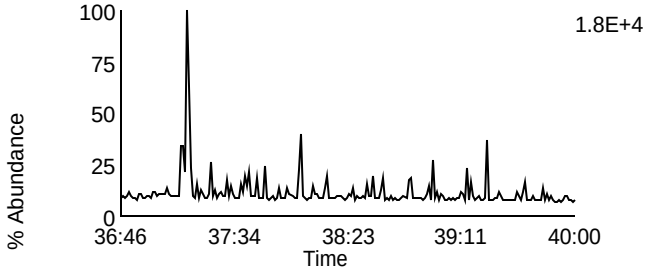
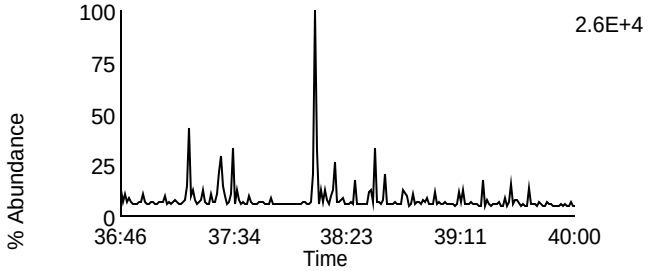
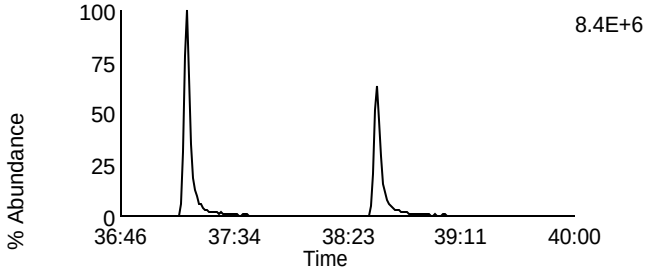
SAMP 10258392013 - SMT WI



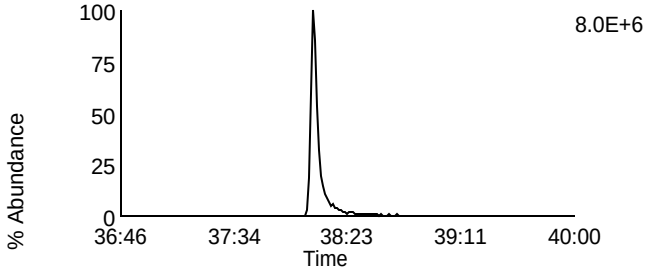
Data File: U140307A_11 G4 C9 - 425.7737
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G4 C6 - 417.825
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G4 C11 - 435.8169
SAMP 10258392013 - SMT WI



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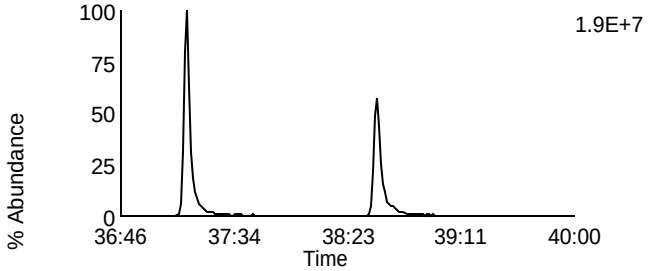
SAMP 10258392013 - SMT WI



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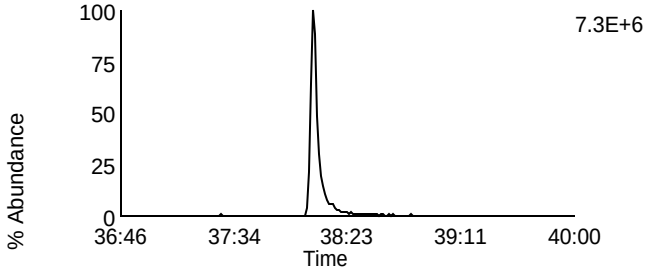
SAMP 10258392013 - SMT WI



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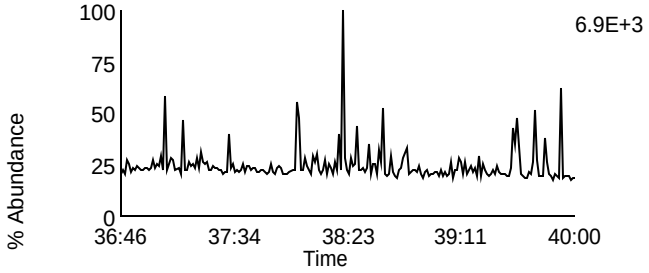
SAMP 10258392013 - SMT WI



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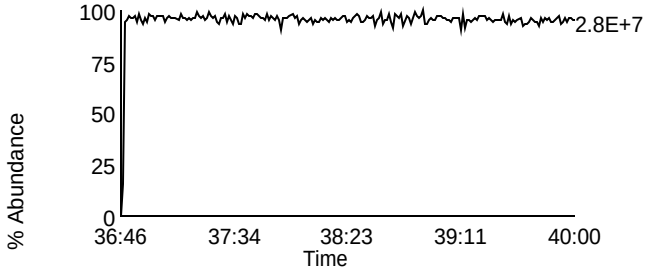
SAMP 10258392013 - SMT WI

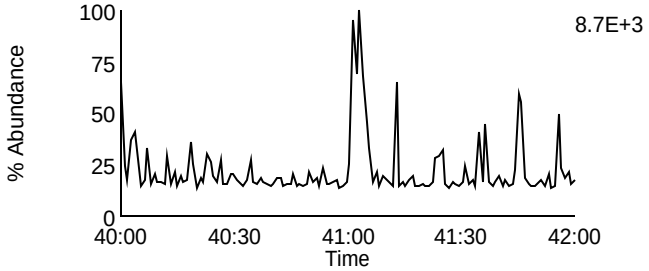


Homologue Group: Octas

Data File Name: U140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392013 - SMT WI

Lab Sample ID: 10258392013
Client Sample ID: MAK106C
Instrument: 10MSHR06 (U)

Data File: U140307A_11 G5 C4 - 441.7428
SAMP 10258392013 - SMT WI



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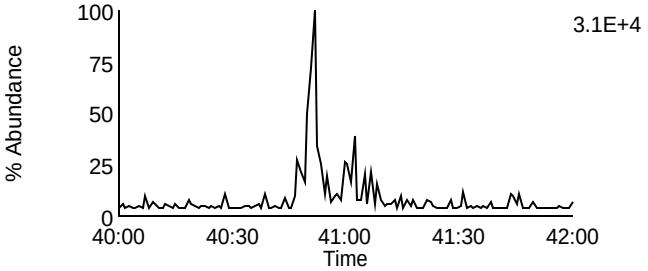
SAMP 10258392013 - SMT WI



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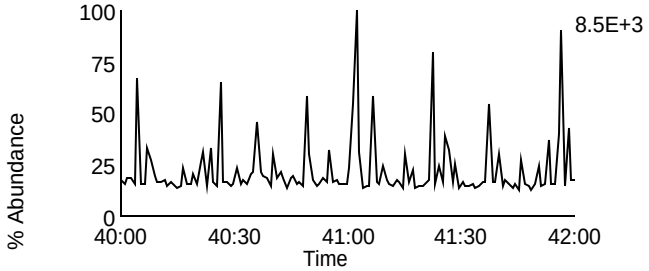
SAMP 10258392013 - SMT WI



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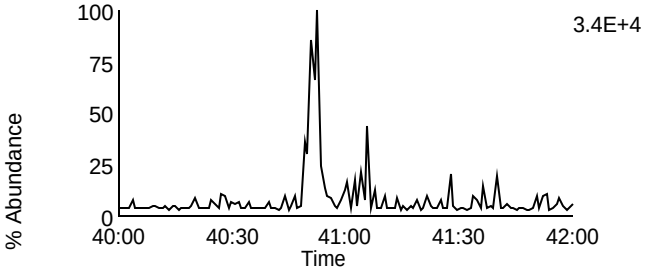
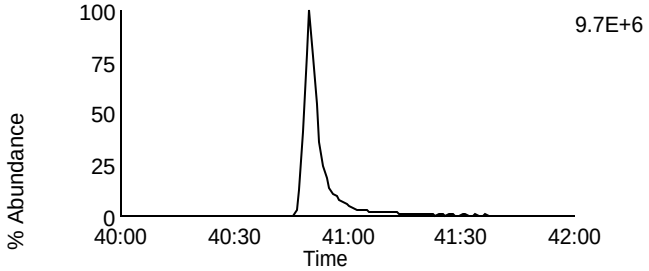
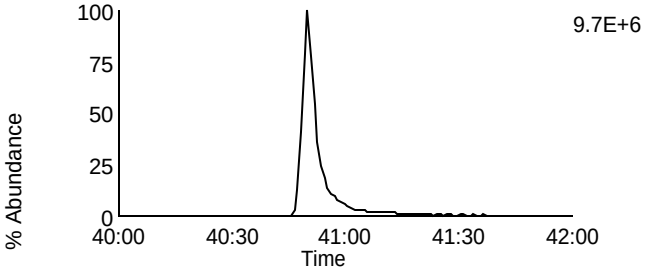
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G5 C11 - 469.7779
SAMP 10258392013 - SMT WI



Data File: U140307A_11 G5 C11 - 469.7779
SAMP 10258392013 - SMT WI



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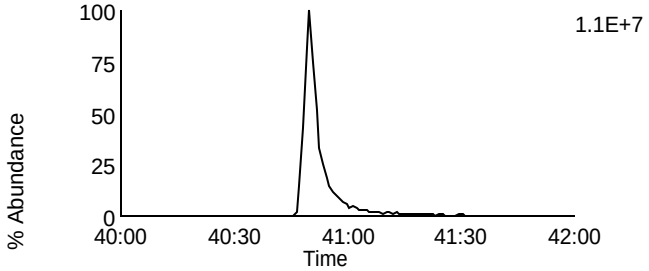
SAMP 10258392013 - SMT WI



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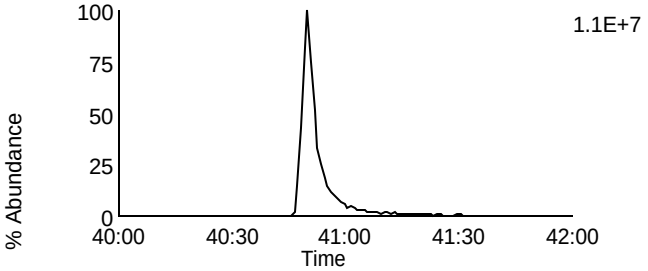

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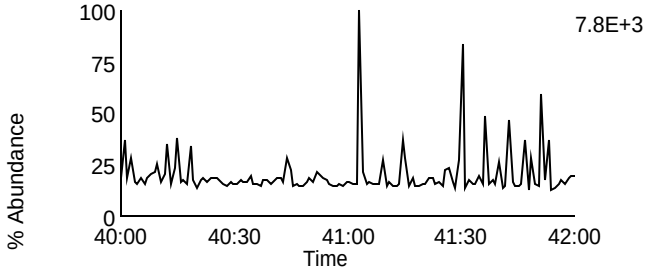
SAMP 10258392013 - SMT WI



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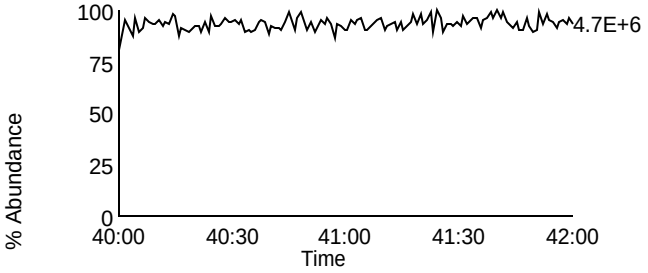
SAMP 10258392013 - SMT WI

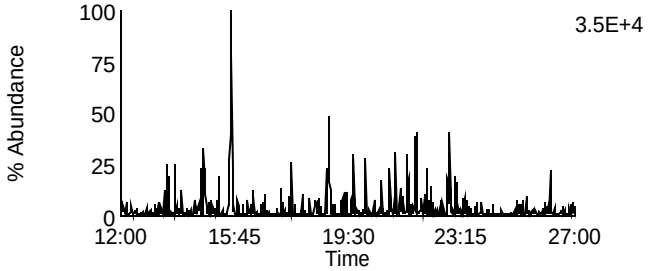


Homologue Group: Tetras

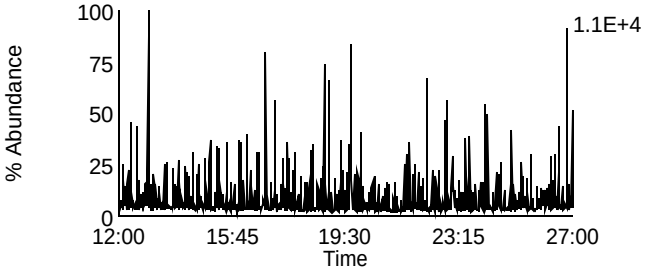
Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

Data File: U140307A_12 G1 C1 - 303.9016
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G1 C7 - 319.8965
SAMP 10258392014 - SMT WI



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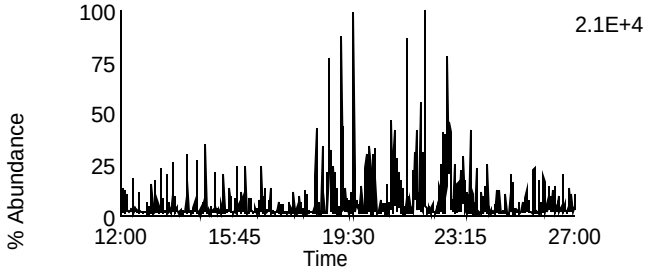
SAMP 10258392014 - SMT WI



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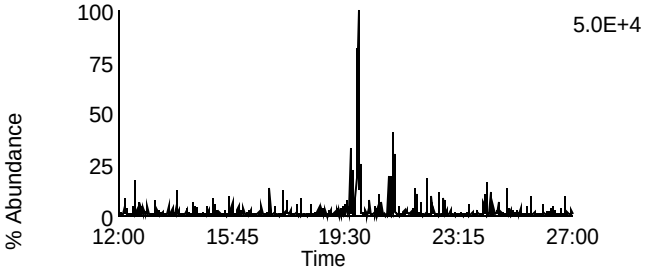
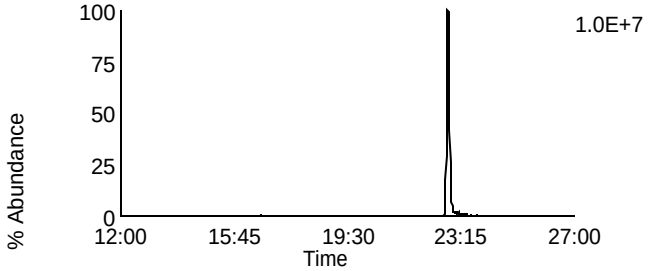
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G1 C3 - 315.9418
SAMP 10258392014 - SMT WI



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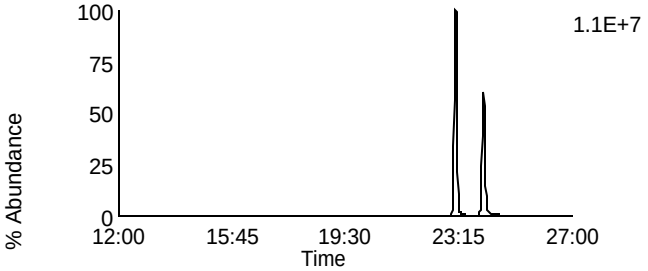
SAMP 10258392014 - SMT WI



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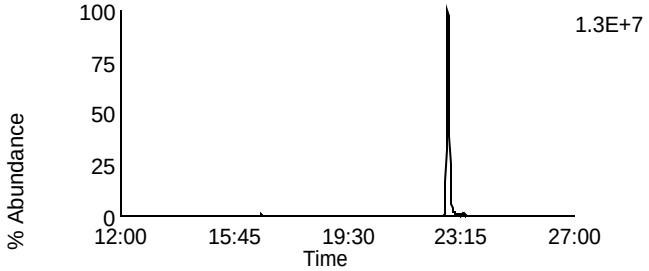
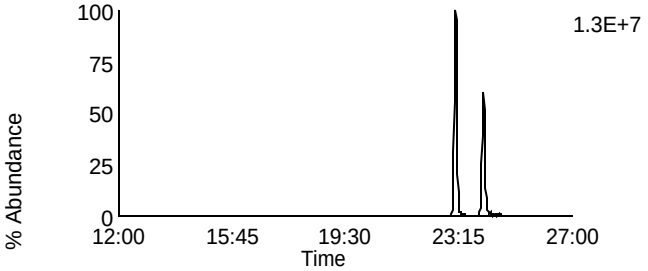
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G1 C11 - 333.9338
SAMP 10258392014 - SMT WI



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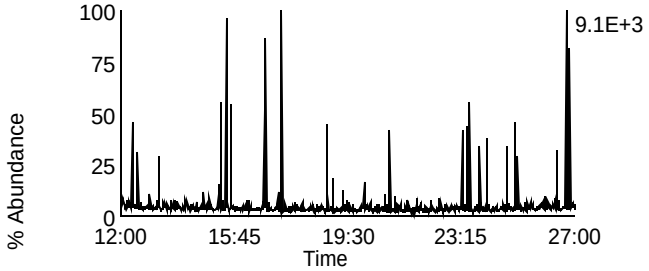
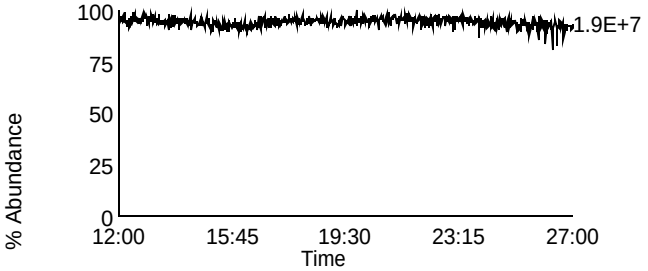
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G1 C5 - 318.9792
SAMP 10258392014 - SMT WI

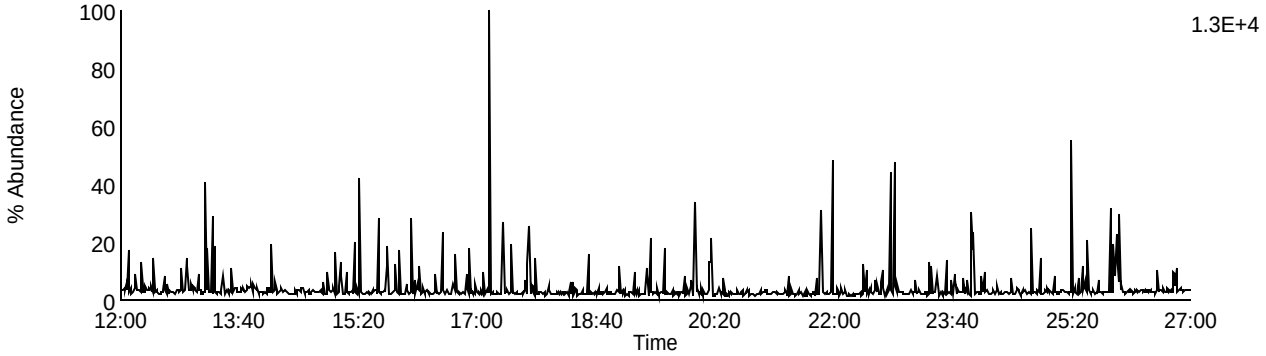


Homologue Group: Penta & Cleanup

Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

Data File: U140307A_12 G1 C12 - 339.8597
SAMP 10258392014 - SMT WI



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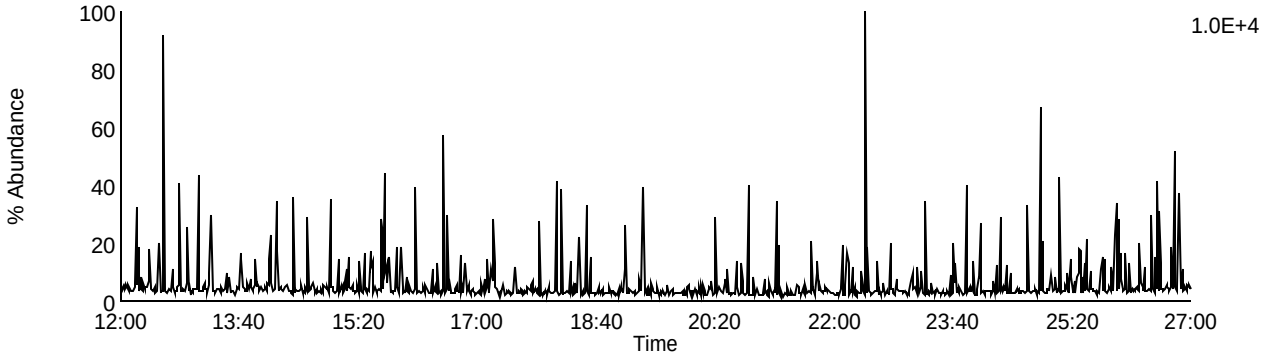
SAMP 10258392014 - SMT WI



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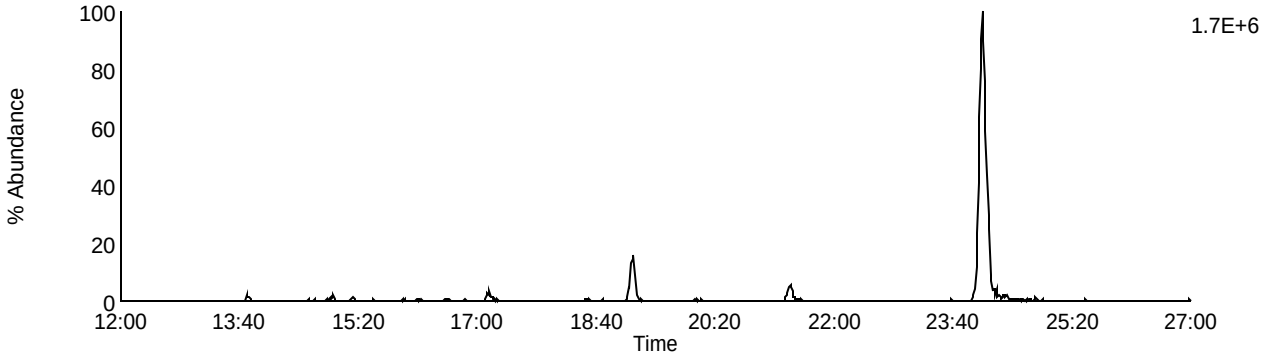
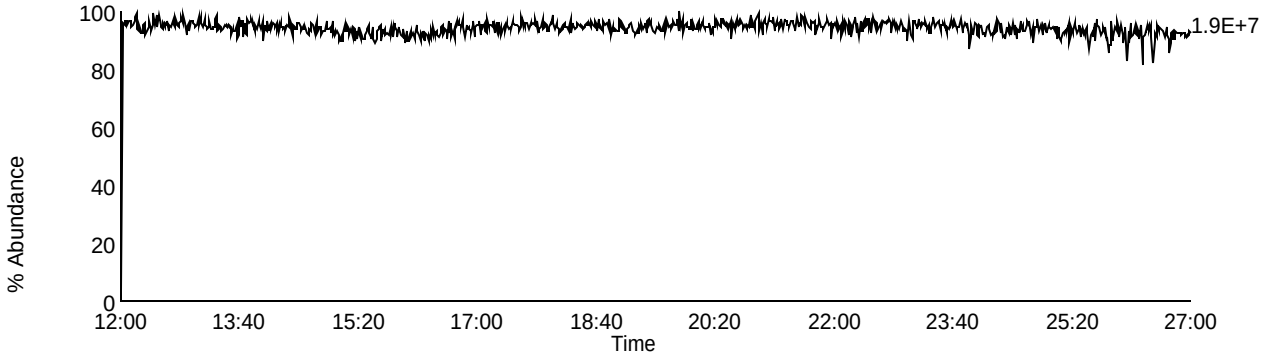
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G1 C5 - 318.9792
SAMP 10258392014 - SMT WI

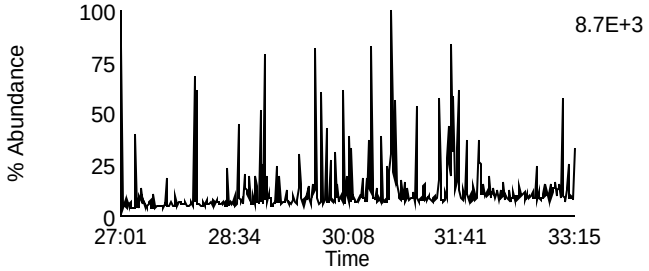


Homologue Group: Pentas

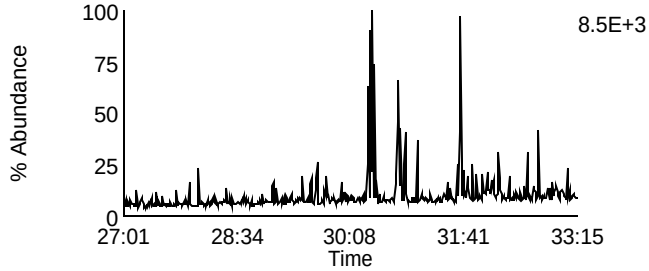
Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

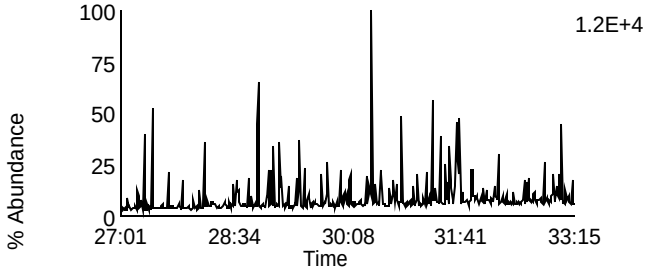
Data File: U140307A_12 G2 C1 - 339.8597
SAMP 10258392014 - SMT WI



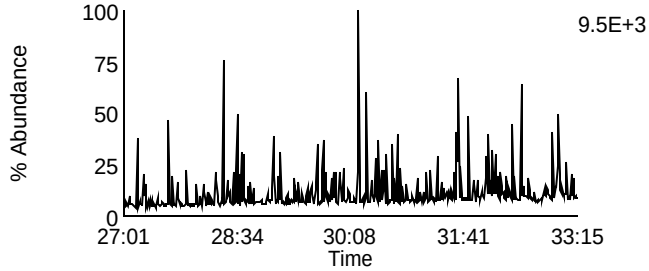
Data File: U140307A_12 G2 C4 - 353.8576
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G2 C2 - 341.8567
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G2 C8 - 355.8546
SAMP 10258392014 - SMT WI



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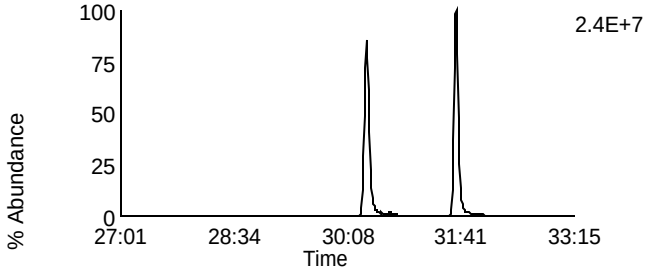
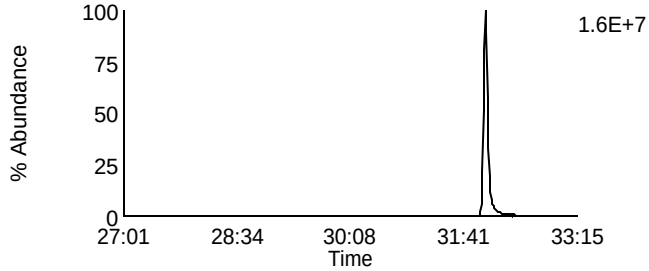
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G2 C10 - 367.8948
SAMP 10258392014 - SMT WI



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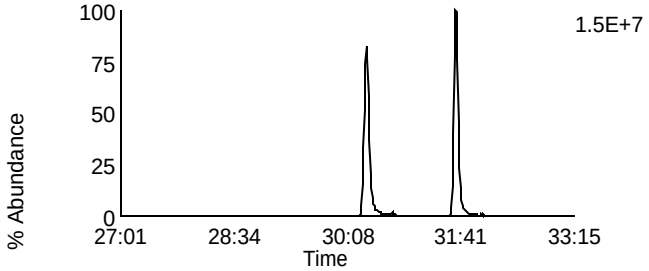
SAMP 10258392014 - SMT WI



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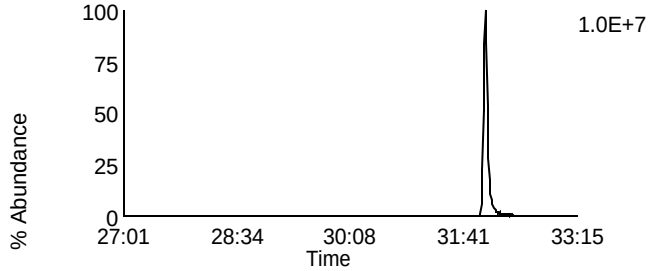
SAMP 10258392014 - SMT WI



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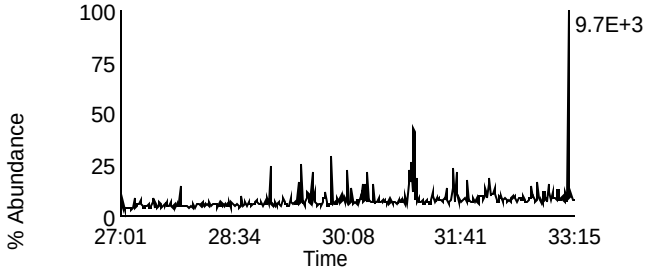
SAMP 10258392014 - SMT WI



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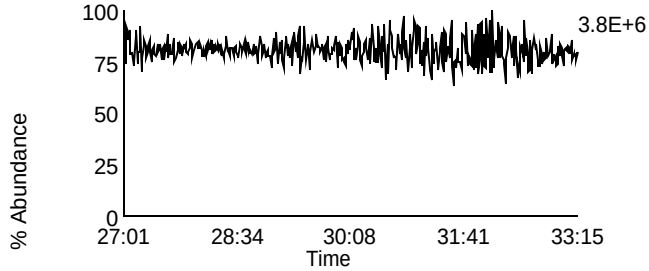
SAMP 10258392014 - SMT WI

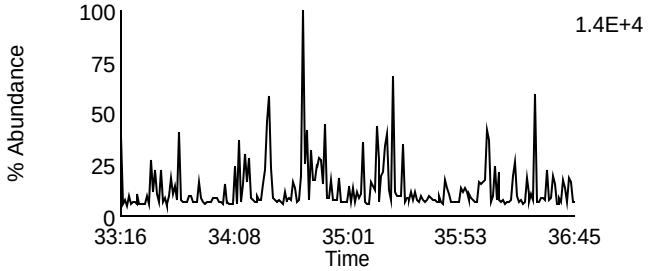


Homologue Group: Hexas

Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

Data File: U140307A_12 G3 C1 - 373.8207
SAMP 10258392014 - SMT WI



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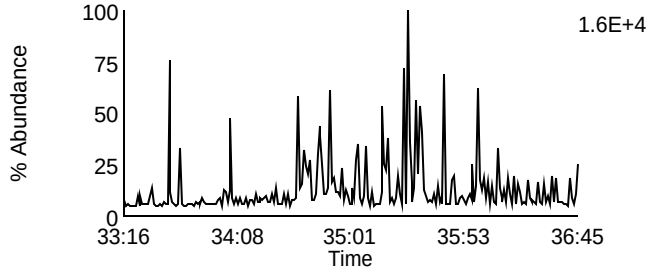
SAMP 10258392014 - SMT WI



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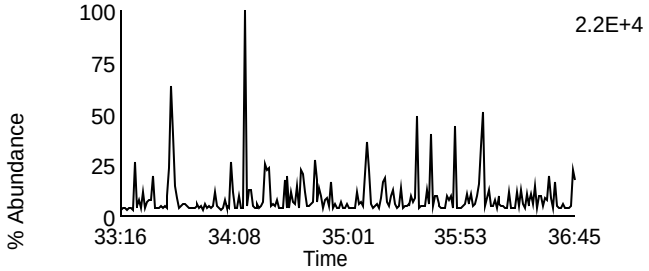
SAMP 10258392014 - SMT WI



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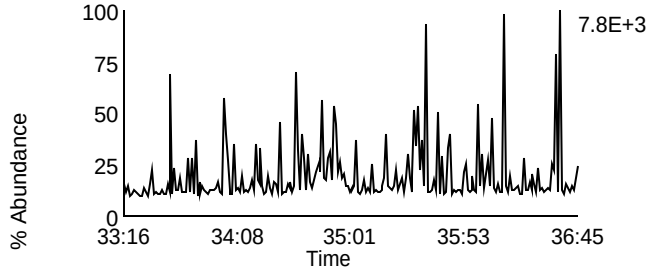
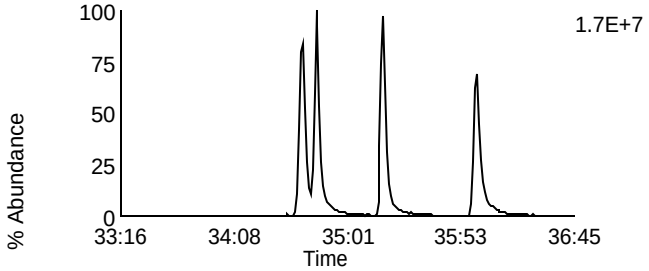
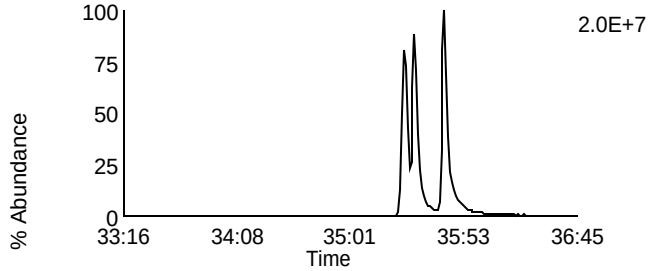
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G3 C5 - 383.8639
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G3 C9 - 401.8559
SAMP 10258392014 - SMT WI



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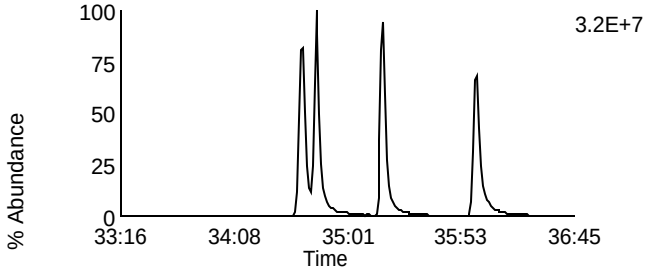
SAMP 10258392014 - SMT WI



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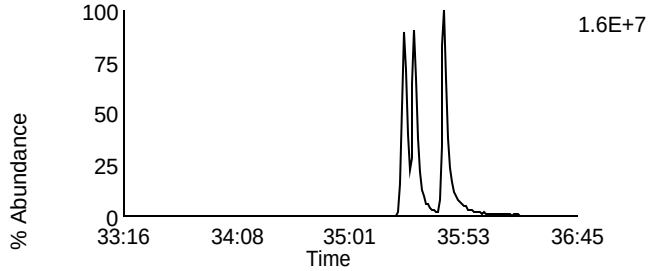
SAMP 10258392014 - SMT WI



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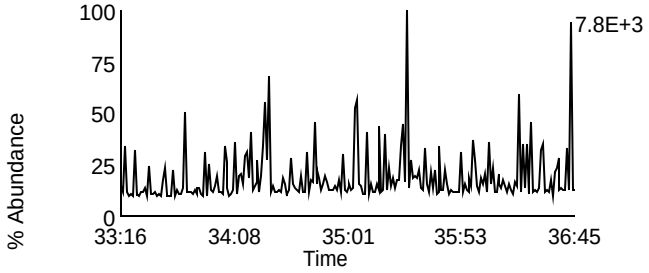
SAMP 10258392014 - SMT WI



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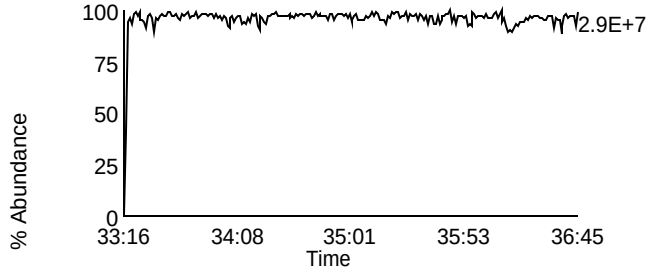
SAMP 10258392014 - SMT WI

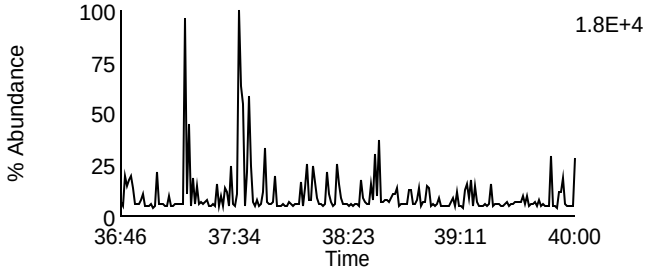


Homologue Group: Heptas

Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

Data File: U140307A_12 G4 C3 - 407.7818
SAMP 10258392014 - SMT WI



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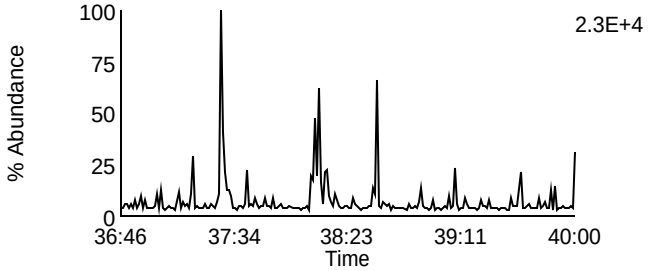
SAMP 10258392014 - SMT WI



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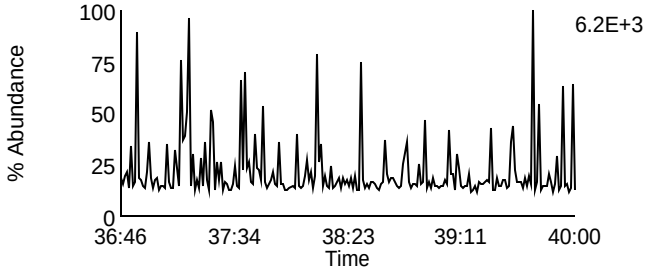
SAMP 10258392014 - SMT WI



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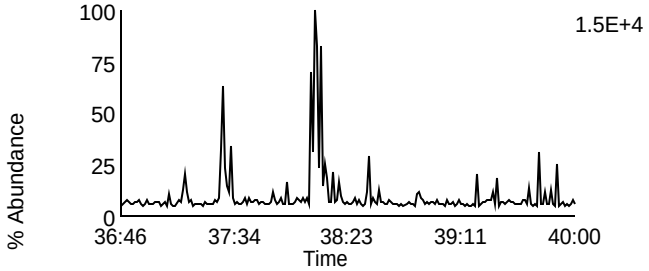
SAMP 10258392014 - SMT WI



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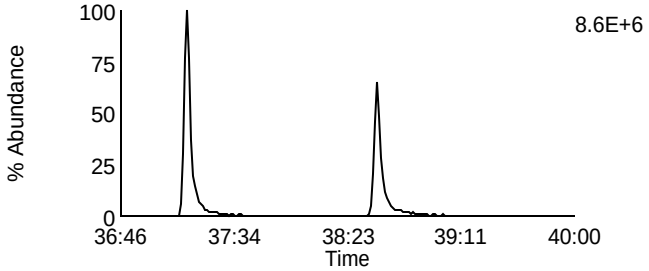
SAMP 10258392014 - SMT WI



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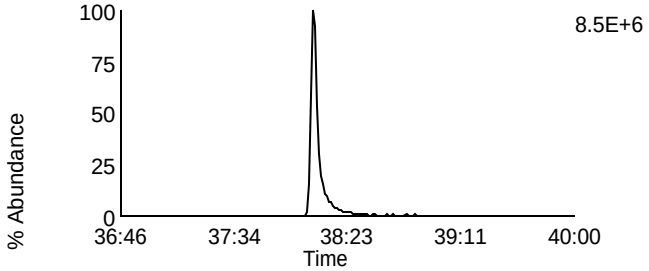
SAMP 10258392014 - SMT WI



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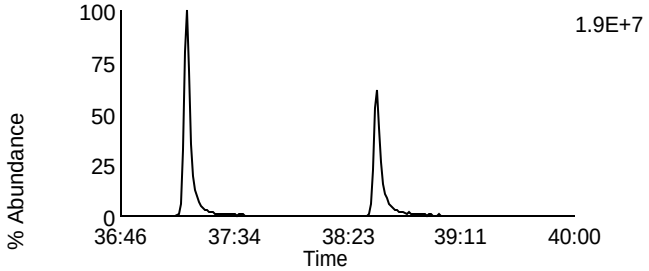
SAMP 10258392014 - SMT WI



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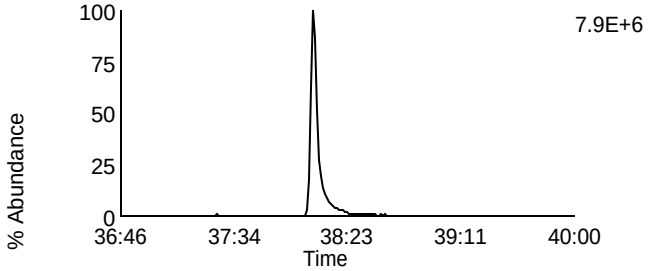
SAMP 10258392014 - SMT WI



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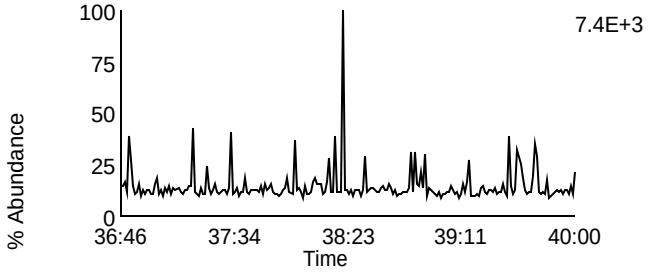
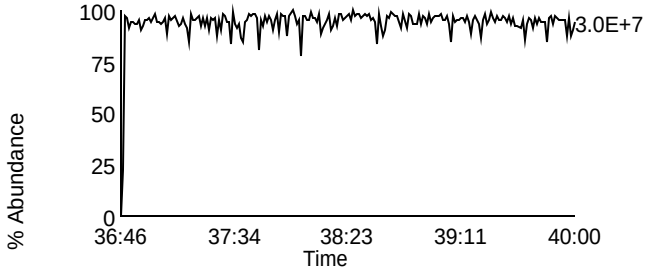
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G4 C1 - 380.976
SAMP 10258392014 - SMT WI

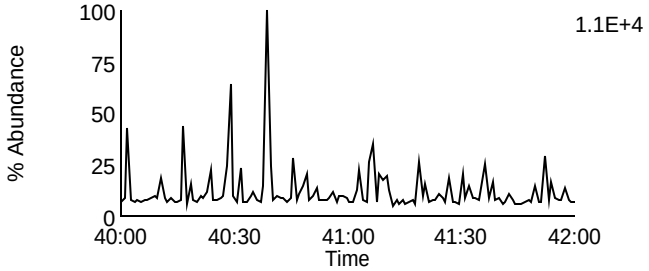


Homologue Group: Octas

Data File Name: U140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392014 - SMT WI

Lab Sample ID: 10258392014
Client Sample ID: MAK107C
Instrument: 10MSHR06 (U)

Data File: U140307A_12 G5 C4 - 441.7428
SAMP 10258392014 - SMT WI



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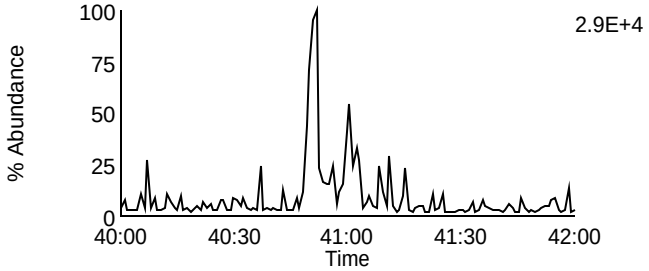
SAMP 10258392014 - SMT WI



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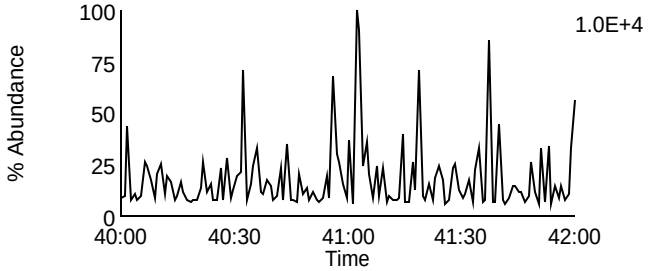
SAMP 10258392014 - SMT WI



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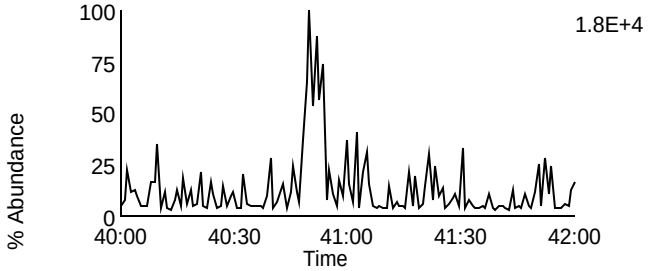
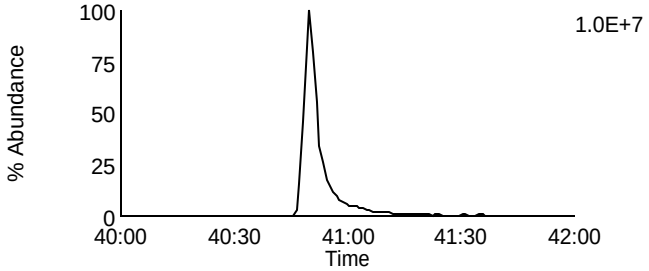
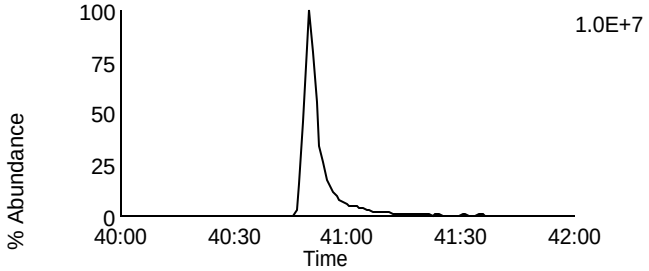
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G5 C11 - 469.7779
SAMP 10258392014 - SMT WI



Data File: U140307A_12 G5 C11 - 469.7779
SAMP 10258392014 - SMT WI



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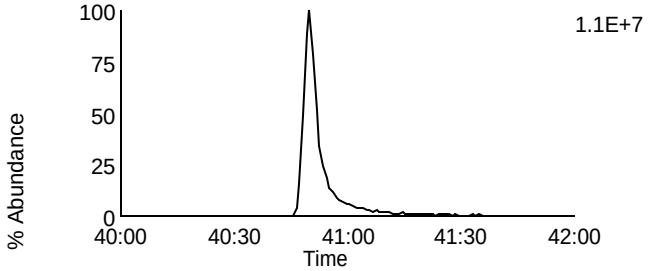
SAMP 10258392014 - SMT WI



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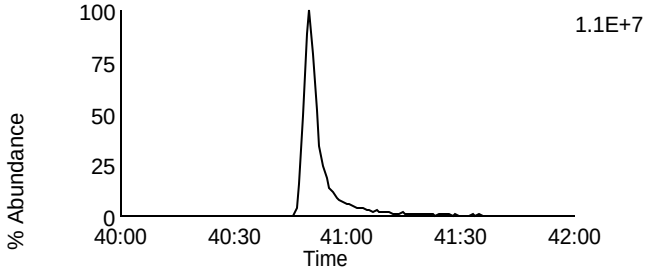
SAMP 10258392014 - SMT WI



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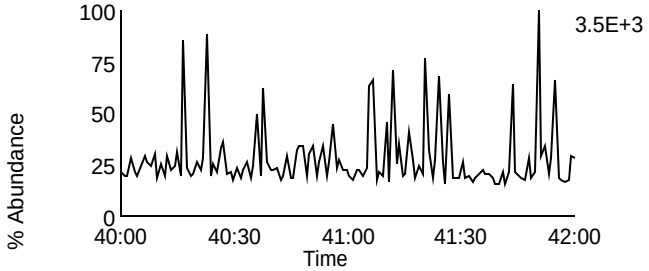
SAMP 10258392014 - SMT WI



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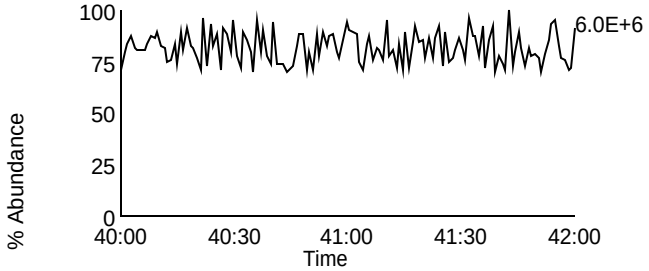
SAMP 10258392014 - SMT WI

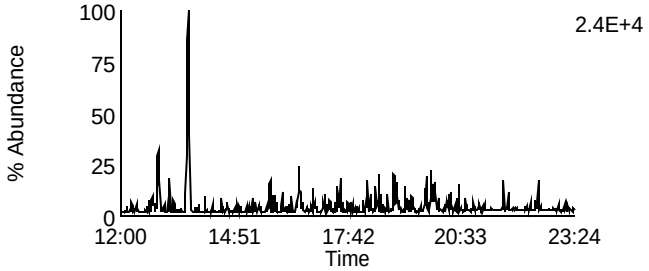


Homologue Group: Tetras

Data File Name: F140307A_04
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392015 - SMT WI

Lab Sample ID: 10258392015
Client Sample ID: MAK108C
Instrument: 10MSHR05 (F)

Data File: F140307A_04 G1 C1 - 303.9016
SAMP 10258392015 - SMT WI



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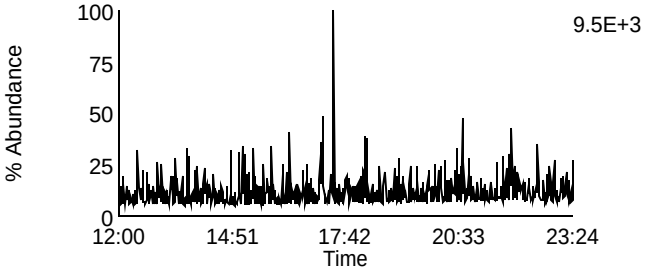
SAMP 10258392015 - SMT WI



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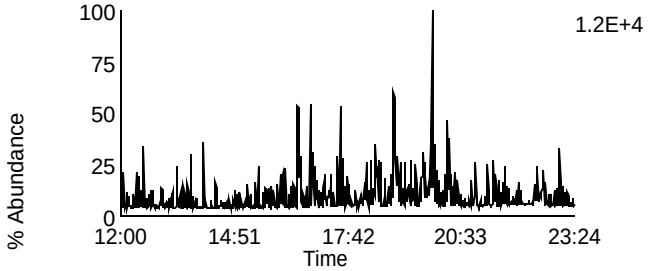
SAMP 10258392015 - SMT WI



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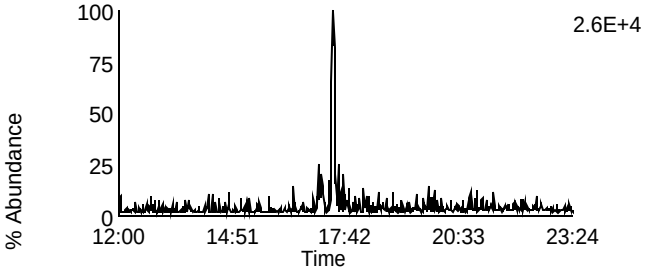
SAMP 10258392015 - SMT WI



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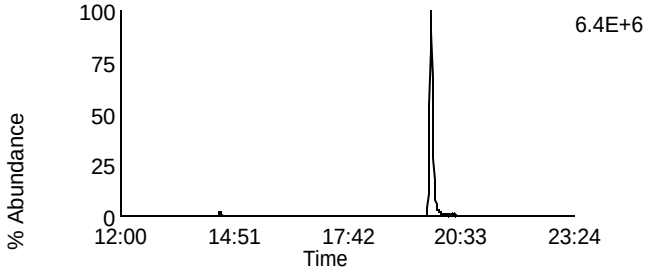
SAMP 10258392015 - SMT WI



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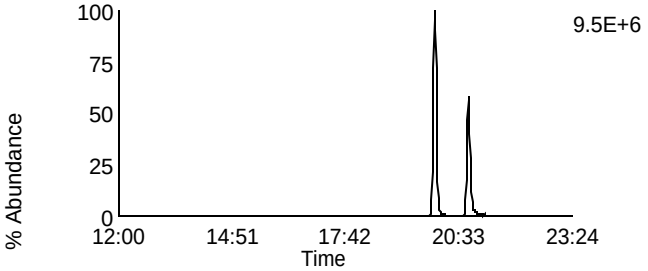
SAMP 10258392015 - SMT WI



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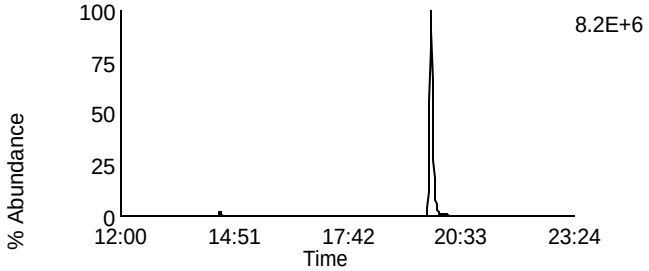
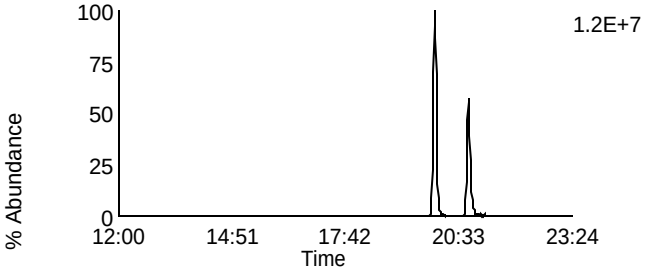
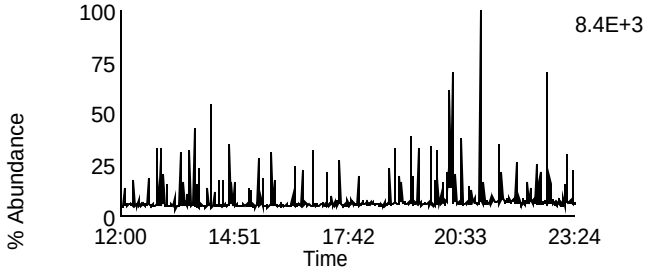
SAMP 10258392015 - SMT WI



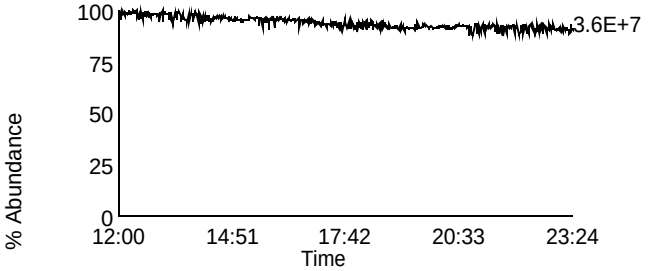
Data File: F140307A_04 G1 C11 - 333.9338
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G1 C14 - 375.8364
SAMP 10258392015 - SMT WI



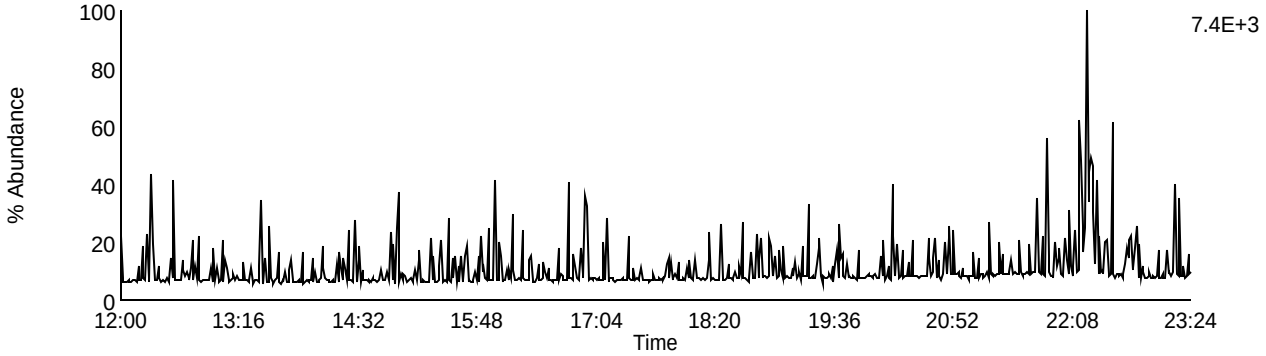
Data File: F140307A_04 G1 C5 - 318.9792
SAMP 10258392015 - SMT WI



Homologue Group: Penta & Cleanup

Data File Name: F140307A_04	Lab Sample ID: 10258392015
Date Acquired: 3/7/2014	Client Sample ID: MAK108C
Sample Description: SAMP 10258392015 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_04 G1 C12 - 339.8597
SAMP 10258392015 - SMT WI



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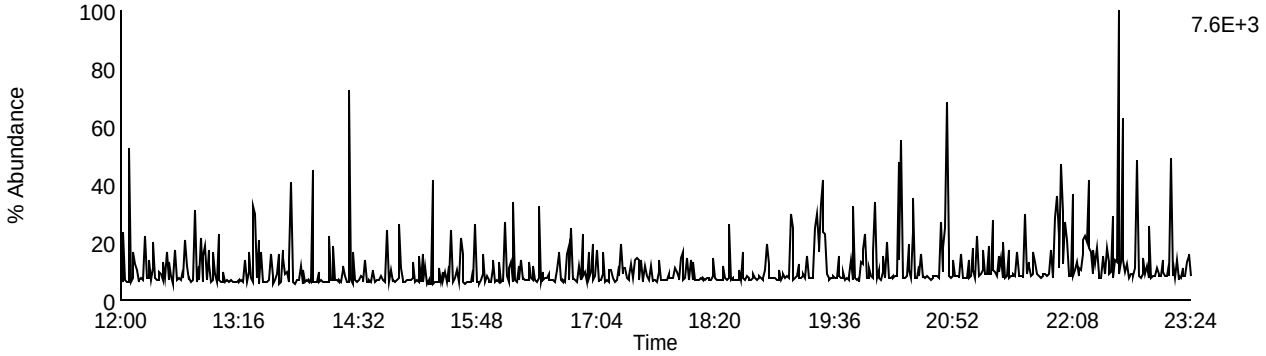
SAMP 10258392015 - SMT WI



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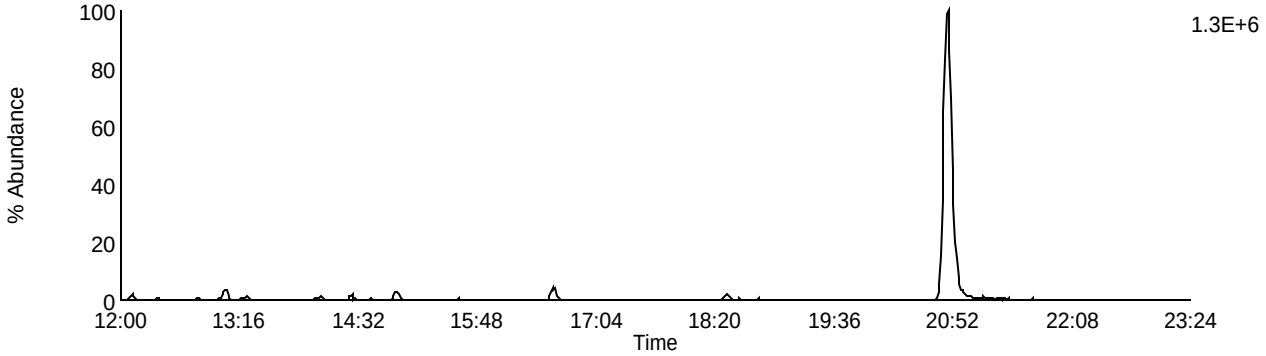
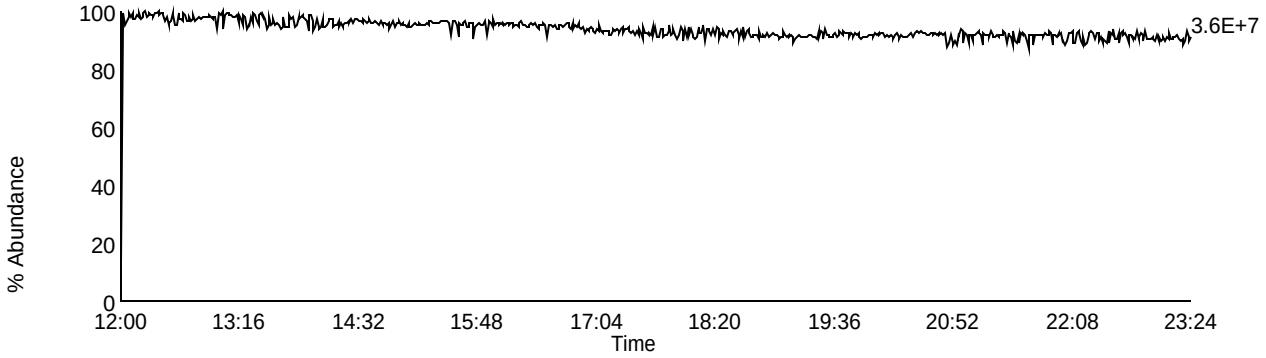
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G1 C5 - 318.9792
SAMP 10258392015 - SMT WI

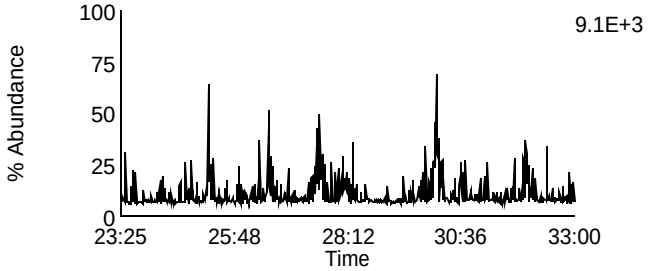


Homologue Group: Pentas

Data File Name: F140307A_04
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392015 - SMT WI

Lab Sample ID: 10258392015
Client Sample ID: MAK108C
Instrument: 10MSHR05 (F)

Data File: F140307A_04 G2 C1 - 339.8597
SAMP 10258392015 - SMT WI



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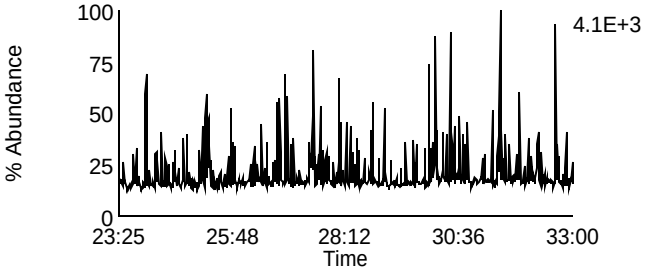
SAMP 10258392015 - SMT WI



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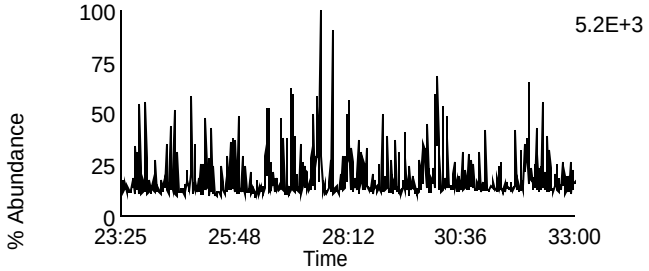
SAMP 10258392015 - SMT WI



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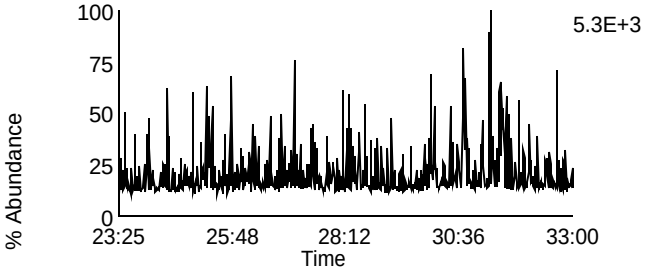
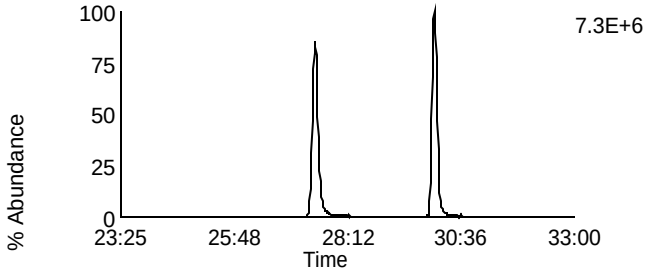
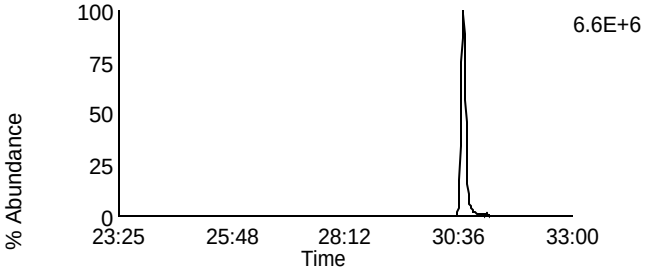
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G2 C3 - 351.8999
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G2 C10 - 367.8948
SAMP 10258392015 - SMT WI



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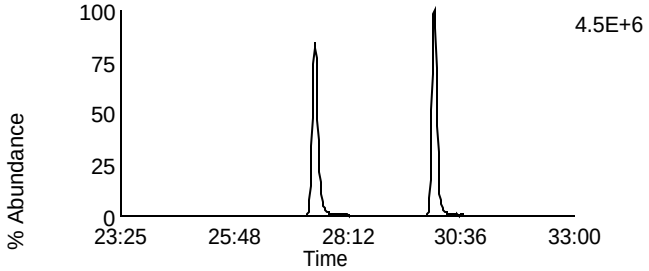
SAMP 10258392015 - SMT WI



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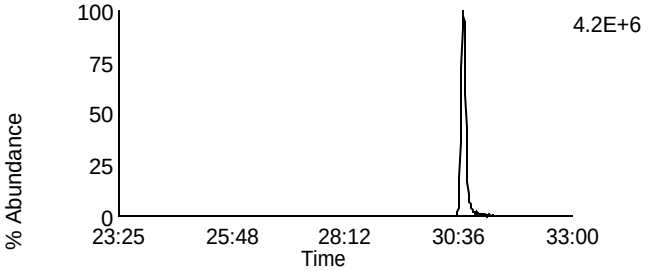
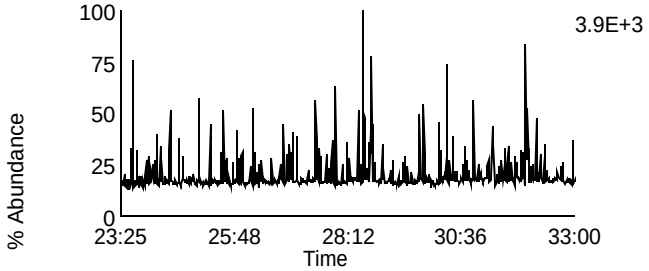
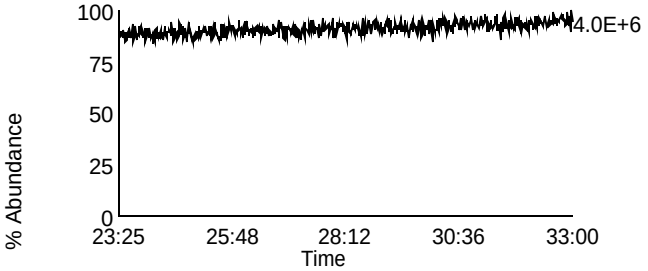
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G2 C12 - 409.7974
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G2 C6 - 354.9792
SAMP 10258392015 - SMT WI

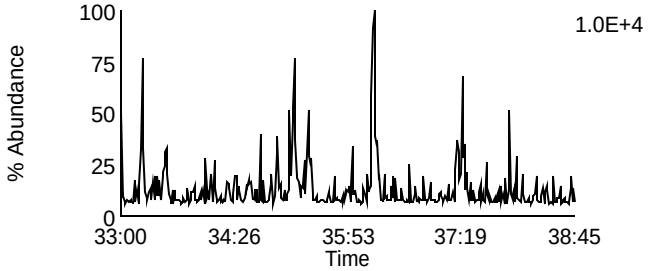


Homologue Group: Hexas

Data File Name: F140307A_04
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392015 - SMT WI

Lab Sample ID: 10258392015
Client Sample ID: MAK108C
Instrument: 10MSHR05 (F)

Data File: F140307A_04 G3 C1 - 373.8207
SAMP 10258392015 - SMT WI



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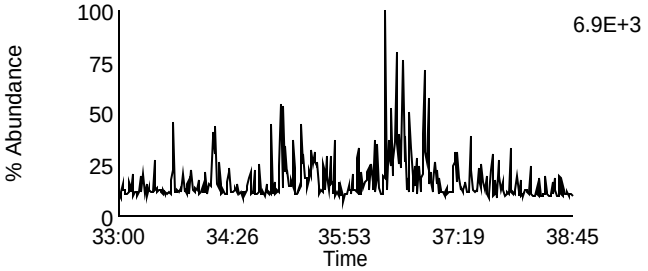
SAMP 10258392015 - SMT WI



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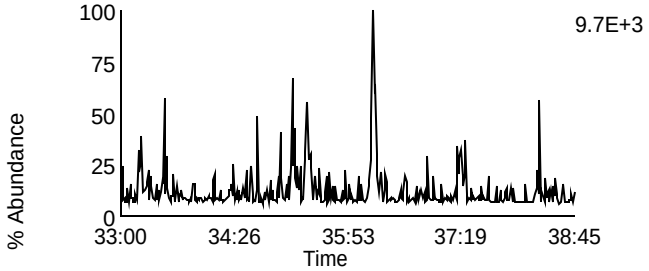
SAMP 10258392015 - SMT WI



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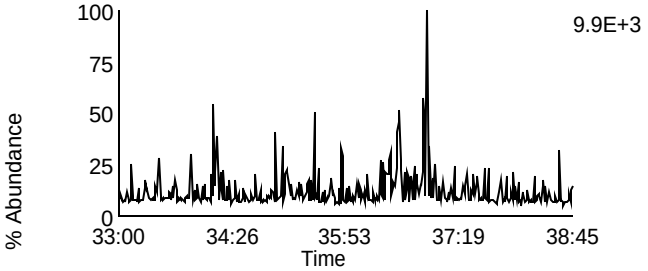
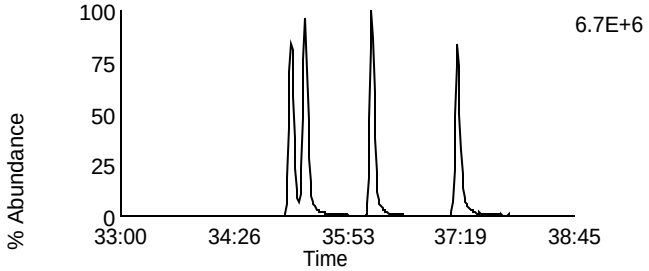
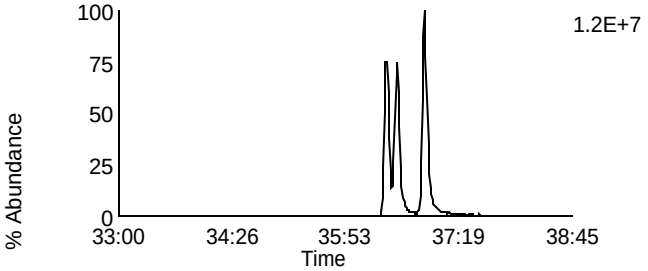
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G3 C5 - 383.8639
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G3 C9 - 401.8559
SAMP 10258392015 - SMT WI



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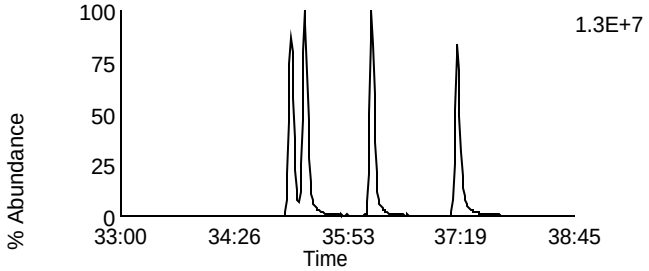

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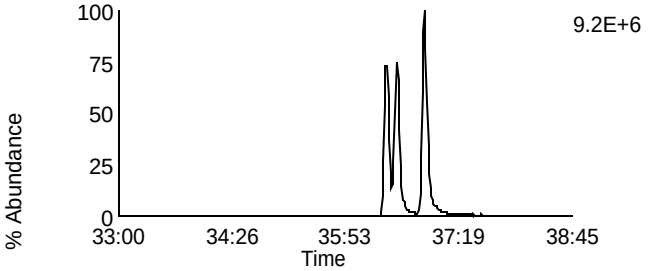
SAMP 10258392015 - SMT WI



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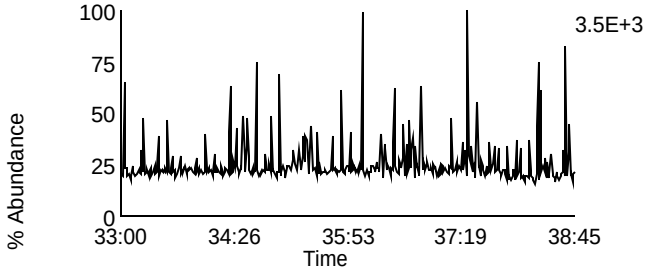
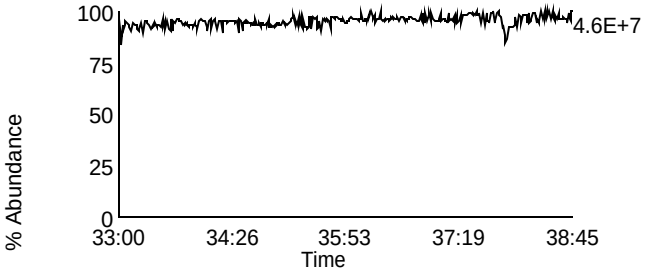
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G3 C3 - 380.976
SAMP 10258392015 - SMT WI

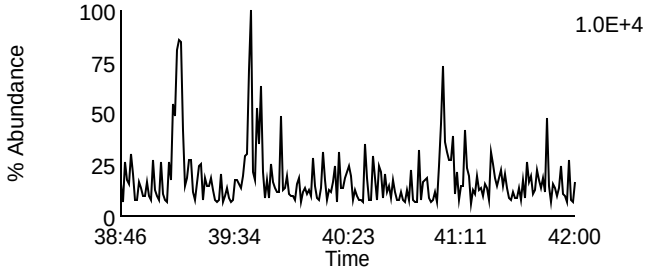


Homologue Group: Heptas

Data File Name: F140307A_04
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392015 - SMT WI

Lab Sample ID: 10258392015
Client Sample ID: MAK108C
Instrument: 10MSHR05 (F)

Data File: F140307A_04 G4 C3 - 407.7818
SAMP 10258392015 - SMT WI



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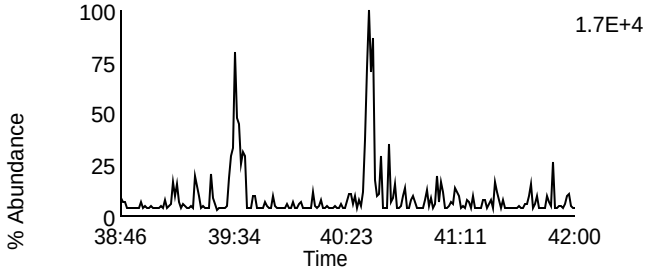
SAMP 10258392015 - SMT WI



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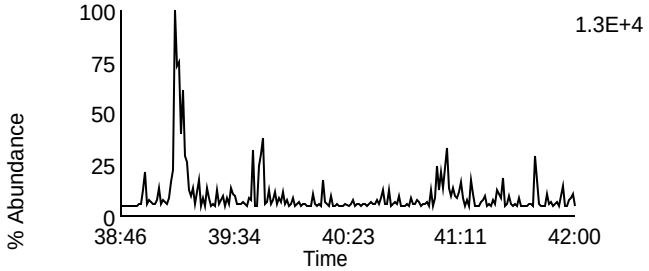
SAMP 10258392015 - SMT WI



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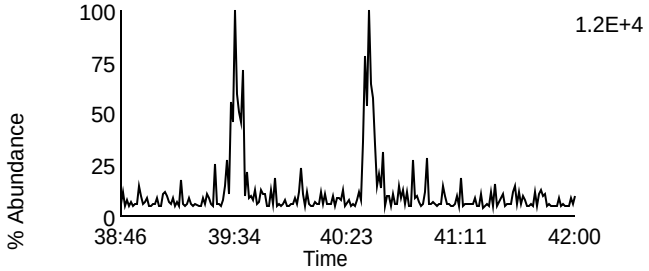
SAMP 10258392015 - SMT WI



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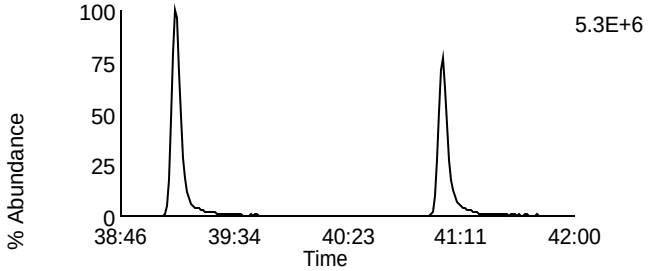
SAMP 10258392015 - SMT WI



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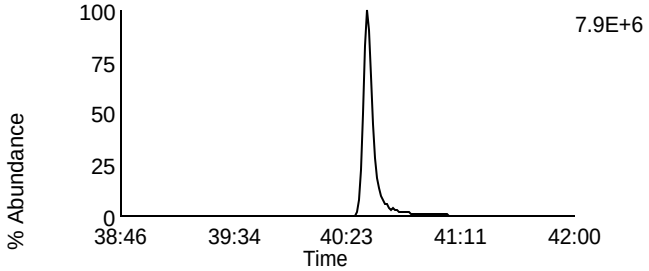
SAMP 10258392015 - SMT WI



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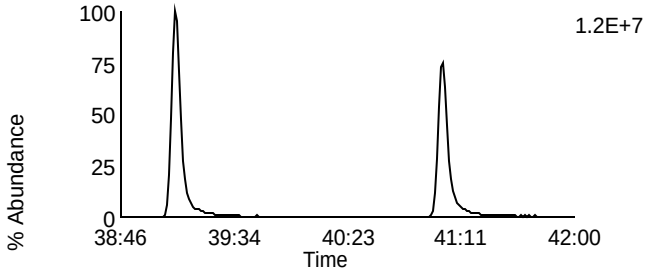
SAMP 10258392015 - SMT WI



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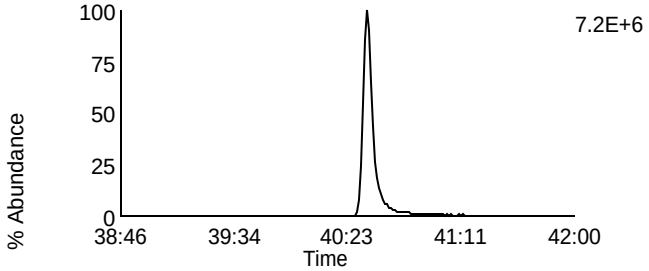
SAMP 10258392015 - SMT WI



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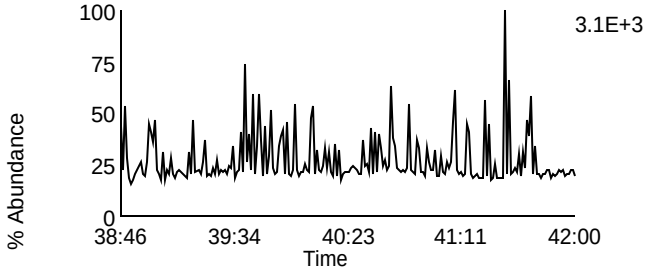
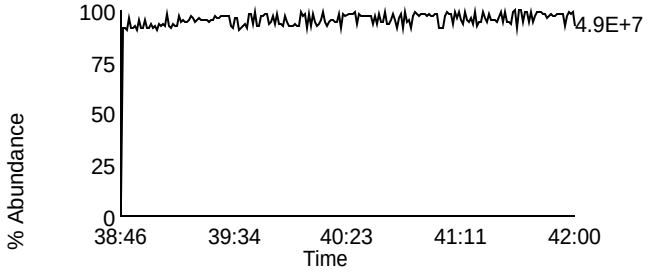
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G4 C1 - 380.976
SAMP 10258392015 - SMT WI

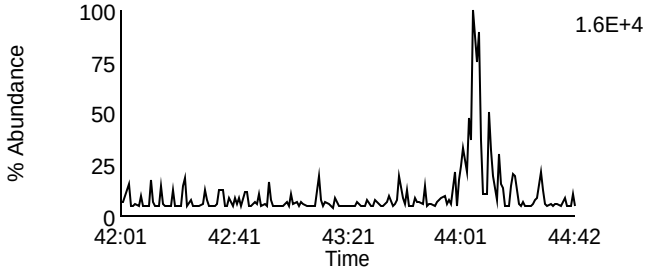


Homologue Group: Octas

Data File Name: F140307A_04
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392015 - SMT WI

Lab Sample ID: 10258392015
Client Sample ID: MAK108C
Instrument: 10MSHR05 (F)

Data File: F140307A_04 G5 C4 - 441.7428
SAMP 10258392015 - SMT WI



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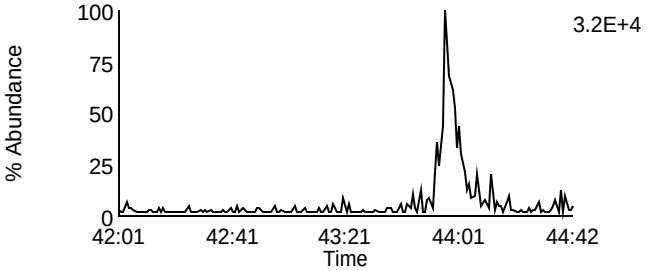
SAMP 10258392015 - SMT WI



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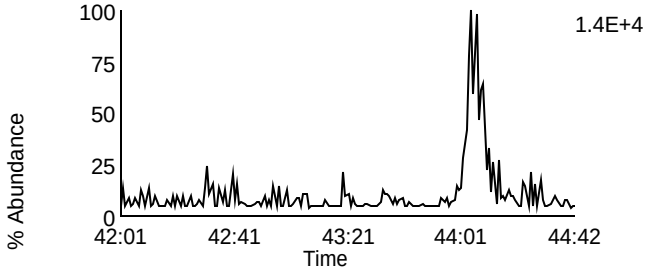
SAMP 10258392015 - SMT WI



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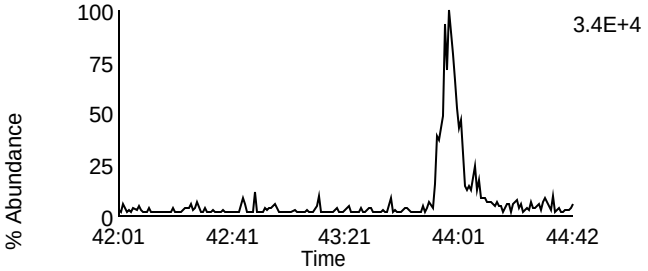
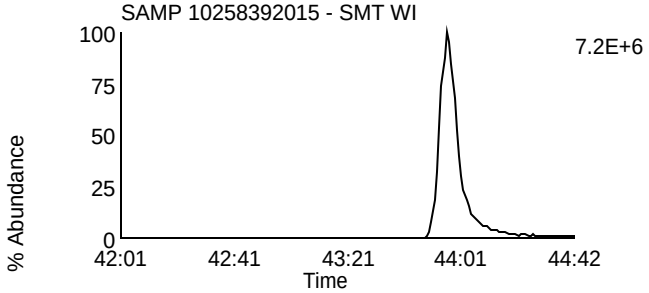
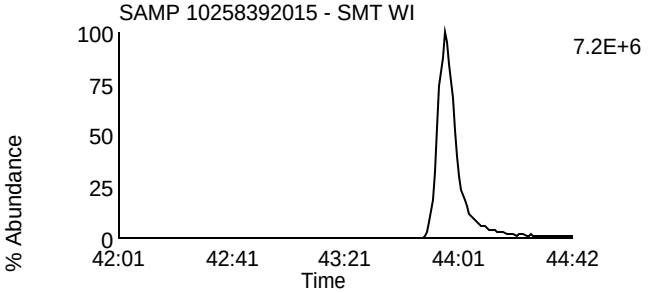
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G5 C11 - 469.7779
SAMP 10258392015 - SMT WI



Data File: F140307A_04 G5 C11 - 469.7779
SAMP 10258392015 - SMT WI



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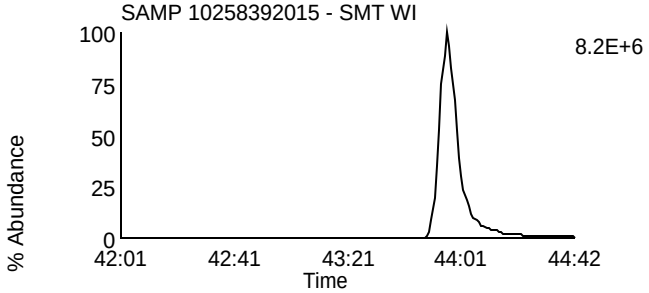
SAMP 10258392015 - SMT WI



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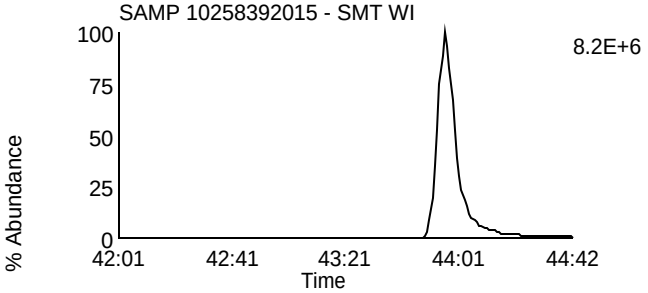
SAMP 10258392015 - SMT WI



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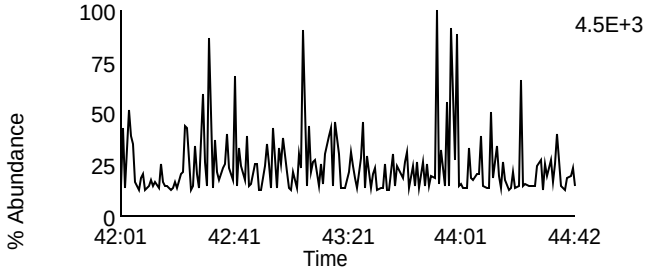
SAMP 10258392015 - SMT WI



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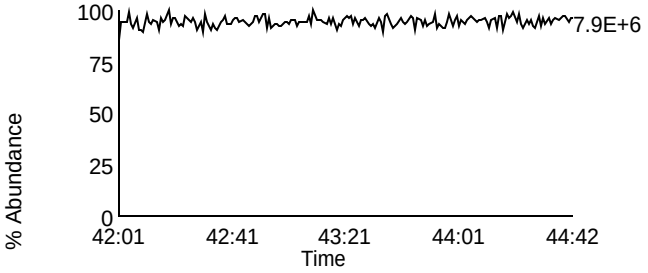
SAMP 10258392015 - SMT WI

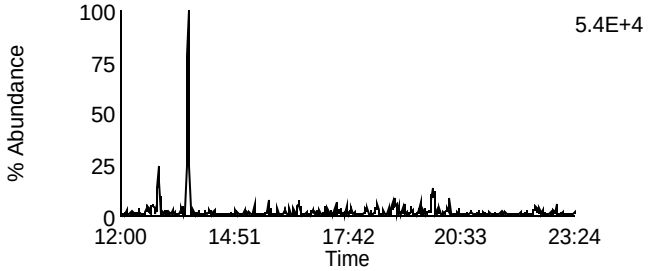


Homologue Group: Tetras

Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

Data File: F140307A_05 G1 C1 - 303.9016
SAMP 10258392016 - SMT WI



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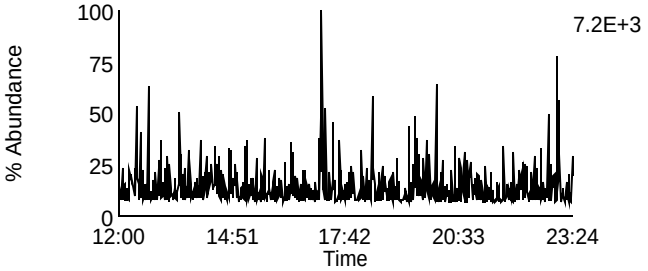
SAMP 10258392016 - SMT WI



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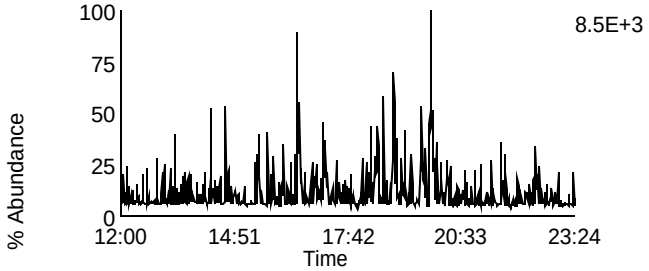
SAMP 10258392016 - SMT WI



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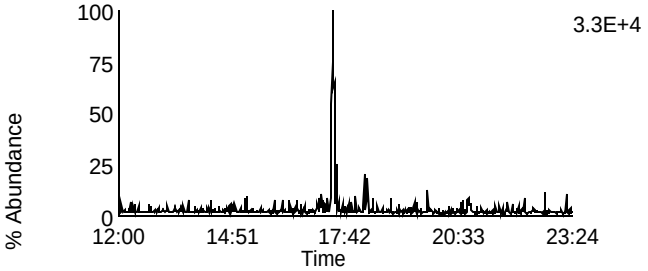
SAMP 10258392016 - SMT WI



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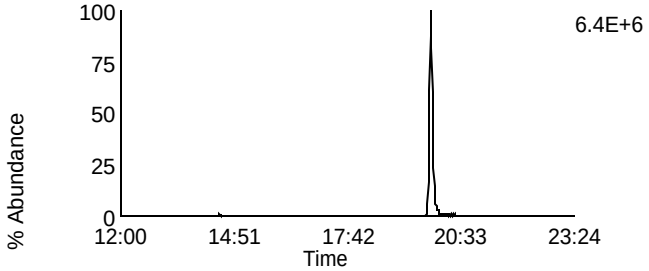
SAMP 10258392016 - SMT WI



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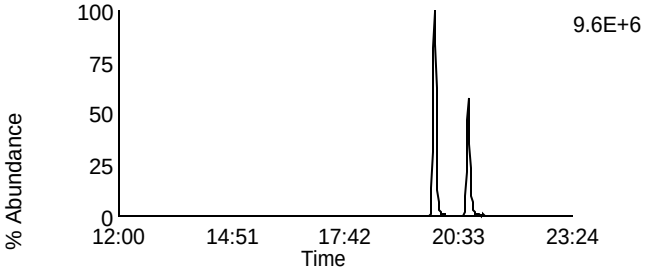
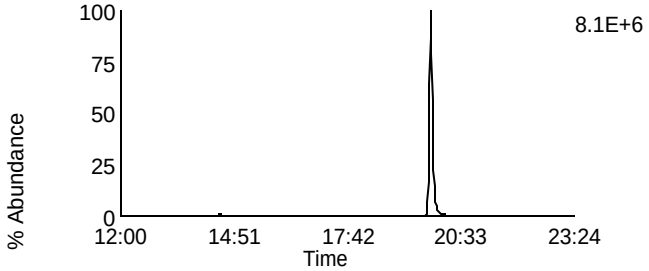
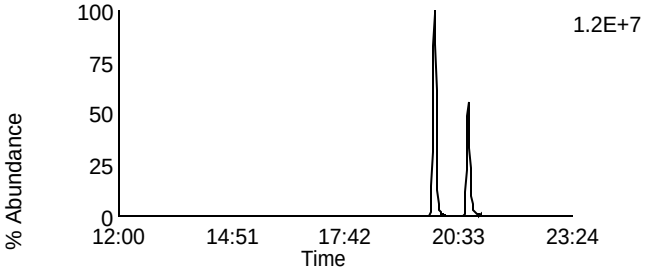
SAMP 10258392016 - SMT WI



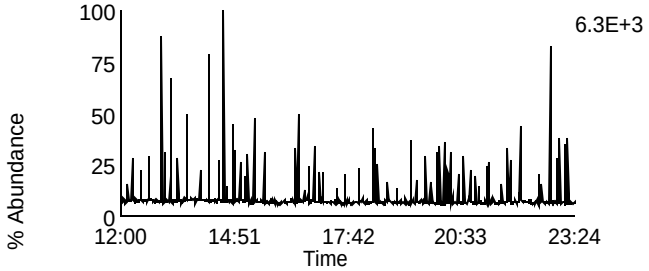
Data File: F140307A_05 G1 C4 - 317.9389
SAMP 10258392016 - SMT WI



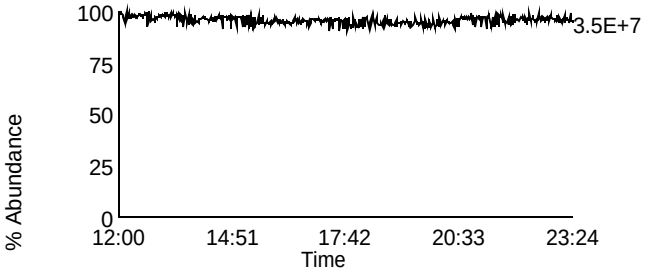
Data File: F140307A_05 G1 C11 - 333.9338
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G1 C14 - 375.8364
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G1 C5 - 318.9792
SAMP 10258392016 - SMT WI

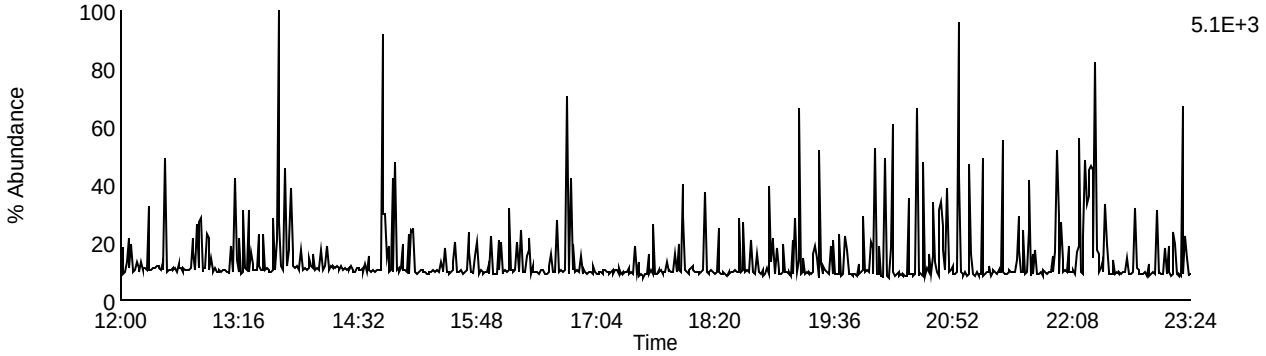


Homologue Group: Penta & Cleanup

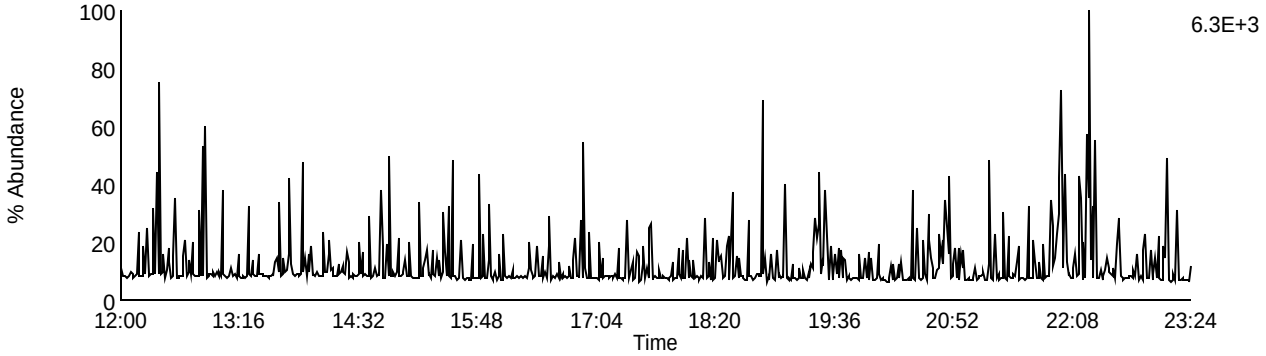
Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

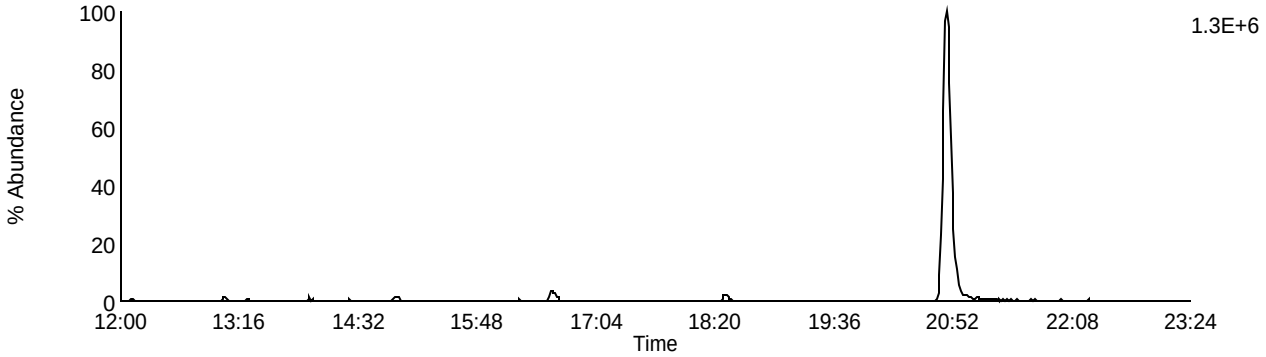
Data File: F140307A_05 G1 C12 - 339.8597
SAMP 10258392016 - SMT WI



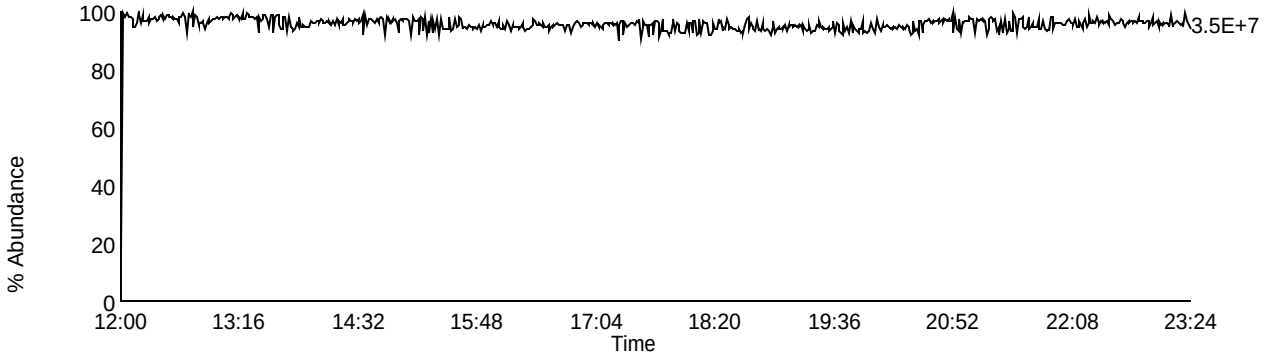
Data File: F140307A_05 G1 C13 - 341.8567
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G1 C9 - 327.8847
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G1 C5 - 318.9792
SAMP 10258392016 - SMT WI

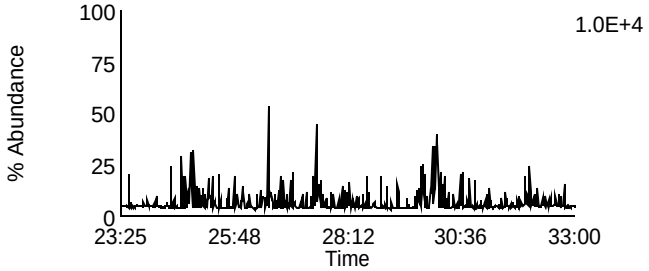


Homologue Group: Pentas

Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

Data File: F140307A_05 G2 C1 - 339.8597
SAMP 10258392016 - SMT WI



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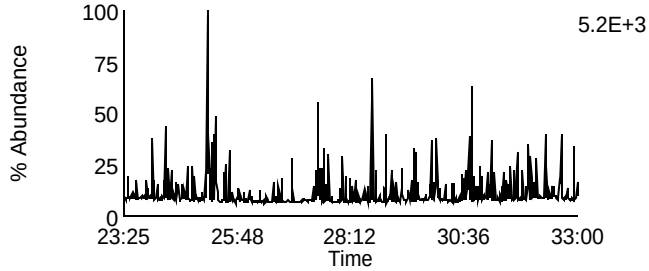
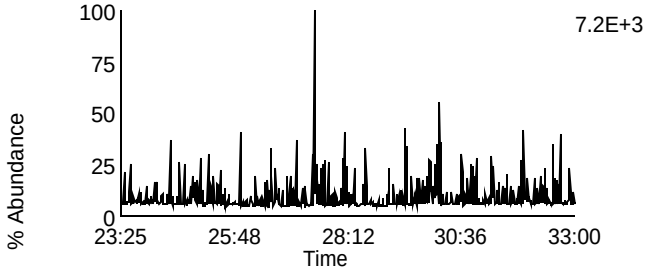
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G2 C2 - 341.8567
SAMP 10258392016 - SMT WI



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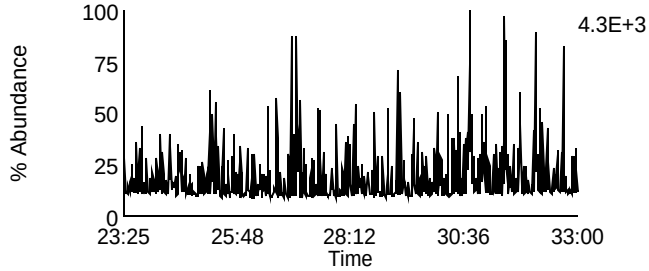
SAMP 10258392016 - SMT WI



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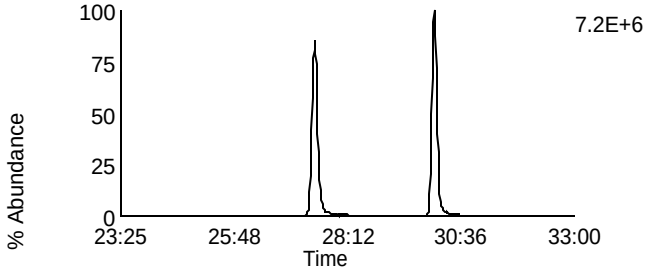
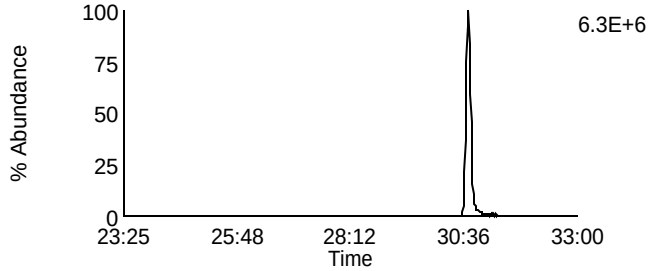
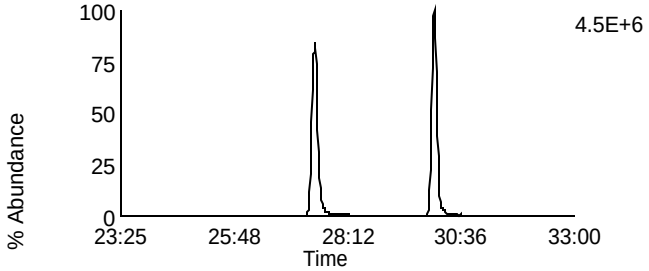
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G2 C10 - 367.8948
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G2 C5 - 353.8969
SAMP 10258392016 - SMT WI



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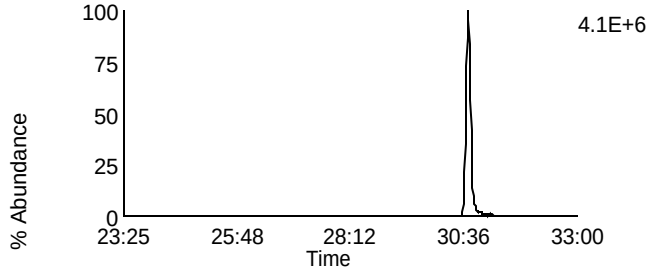
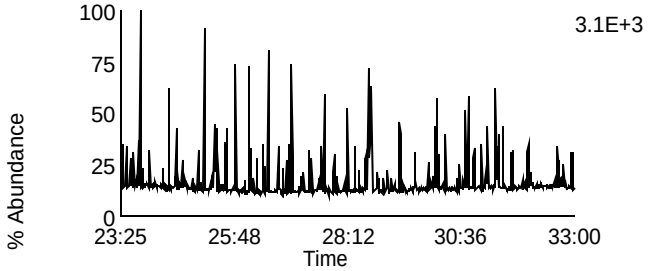
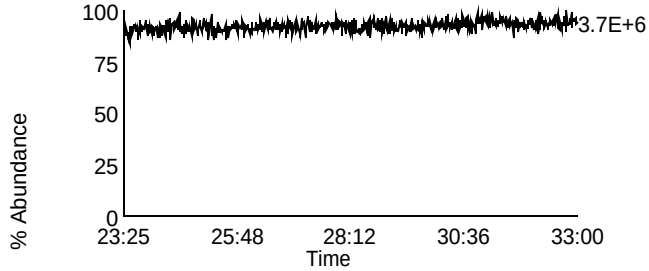
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G2 C12 - 409.7974
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G2 C6 - 354.9792
SAMP 10258392016 - SMT WI

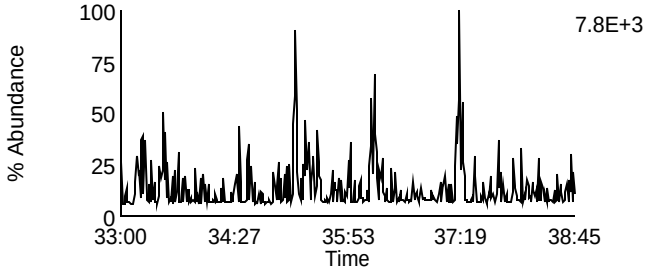


Homologue Group: Hexas

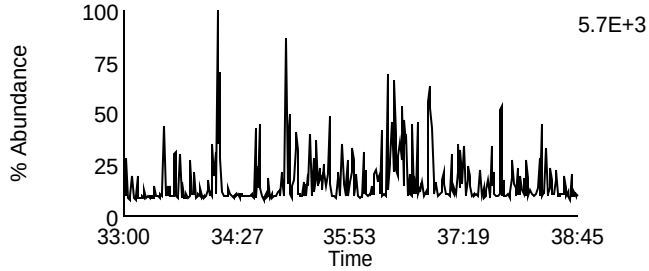
Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

Data File: F140307A_05 G3 C1 - 373.8207
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G3 C7 - 389.8156
SAMP 10258392016 - SMT WI



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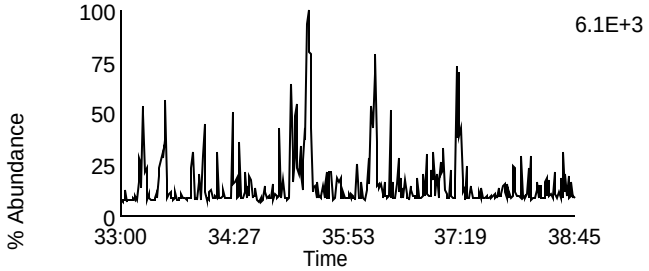
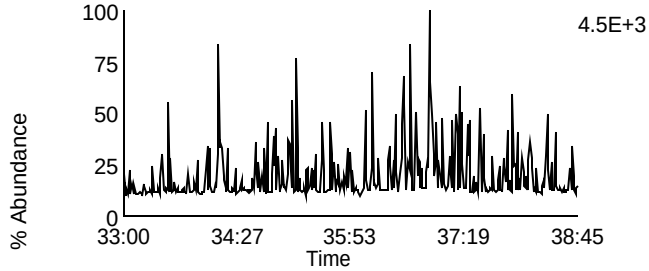
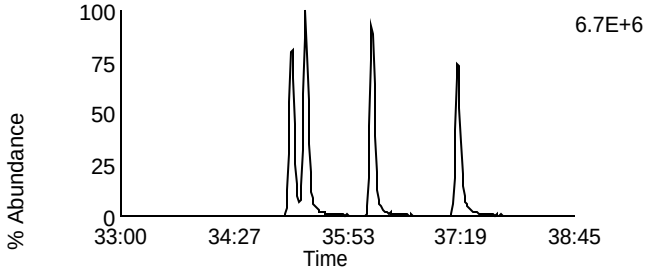
SAMP 10258392016 - SMT WI



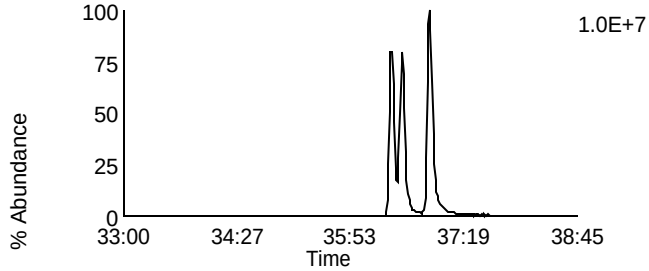
Data File: F140307A_05 G3 C8 - 391.8127
SAMP 10258392016 - SMT WI



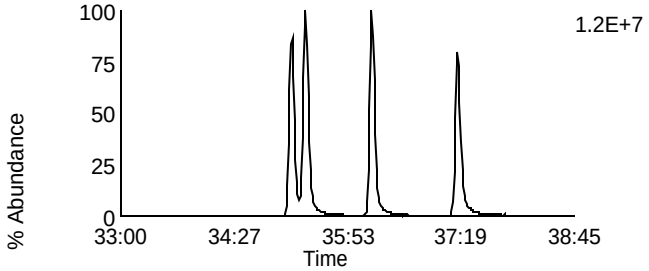
Data File: F140307A_05 G3 C5 - 383.8639
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G3 C9 - 401.8559
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G3 C6 - 385.861
SAMP 10258392016 - SMT WI



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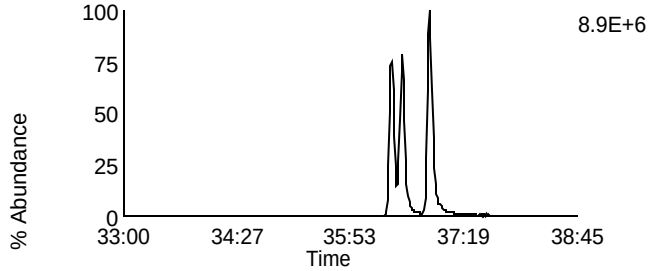
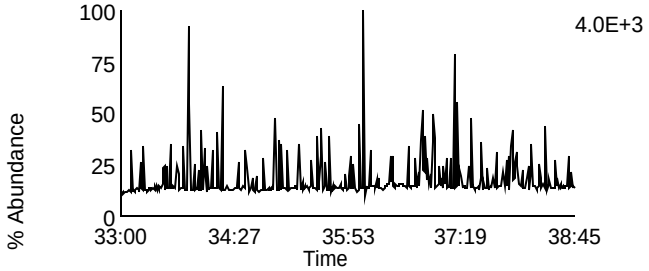
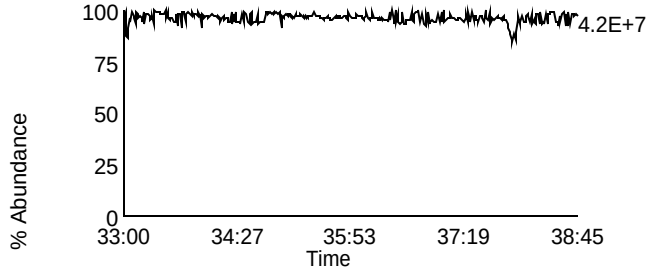
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G3 C11 - 445.7555
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G3 C3 - 380.976
SAMP 10258392016 - SMT WI

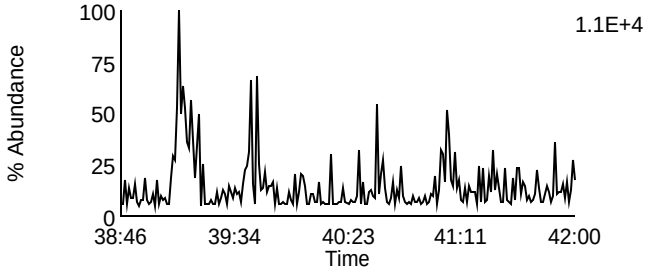


Homologue Group: Heptas

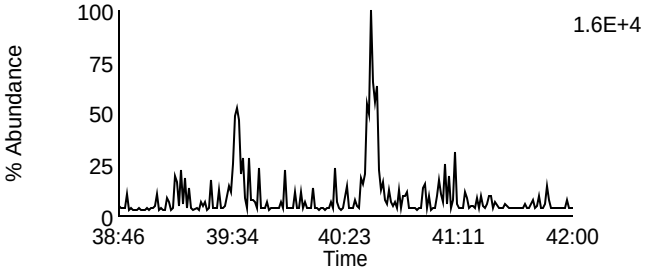
Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

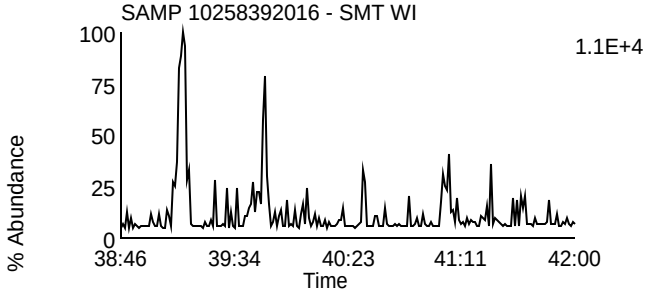
Data File: F140307A_05 G4 C3 - 407.7818
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G4 C8 - 423.7767
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G4 C4 - 409.7788
SAMP 10258392016 - SMT WI



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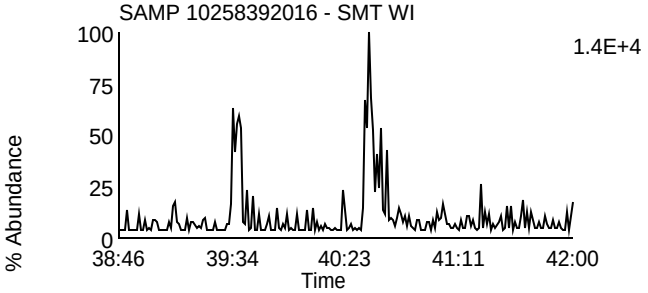
SAMP 10258392016 - SMT WI



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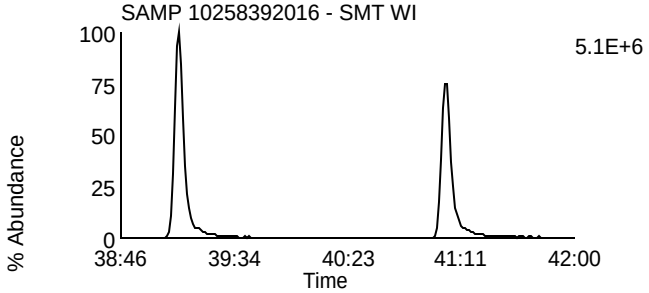
SAMP 10258392016 - SMT WI



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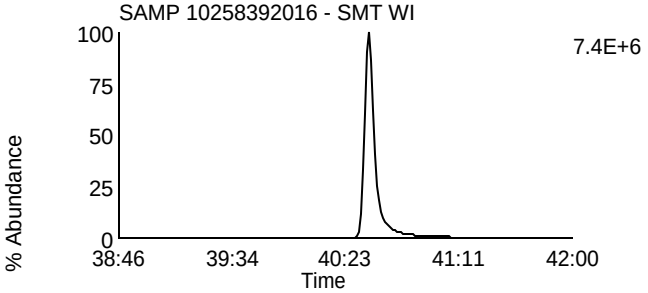
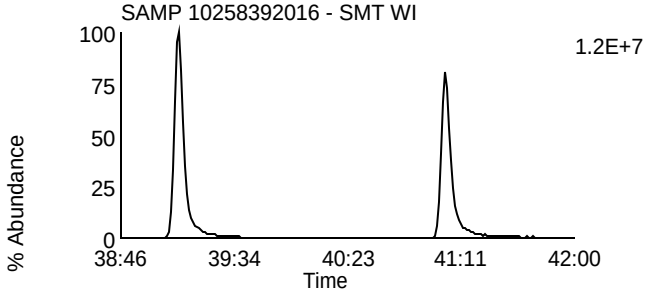
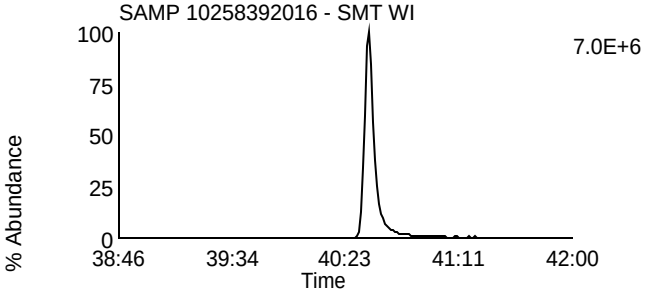
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G4 C7 - 419.822
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G4 C12 - 437.814
SAMP 10258392016 - SMT WI



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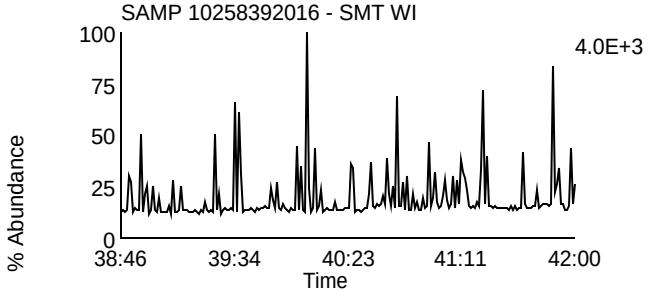
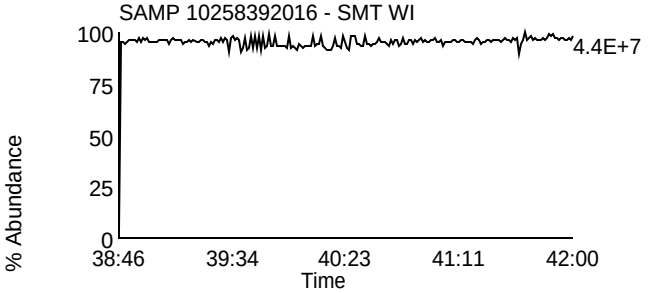
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G4 C1 - 380.976
SAMP 10258392016 - SMT WI

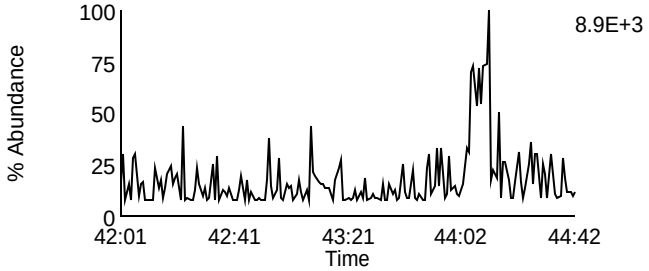


Homologue Group: Octas

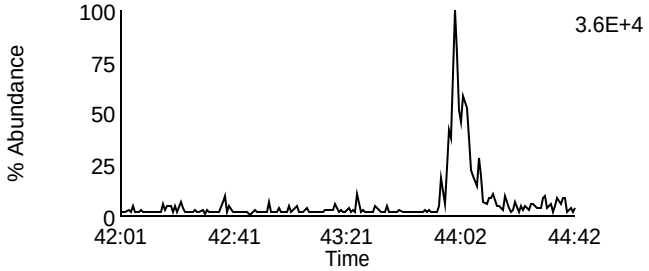
Data File Name: F140307A_05
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392016 - SMT WI

Lab Sample ID: 10258392016
Client Sample ID: MAK110C
Instrument: 10MSHR05 (F)

Data File: F140307A_05 G5 C4 - 441.7428
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G5 C8 - 457.7377
SAMP 10258392016 - SMT WI



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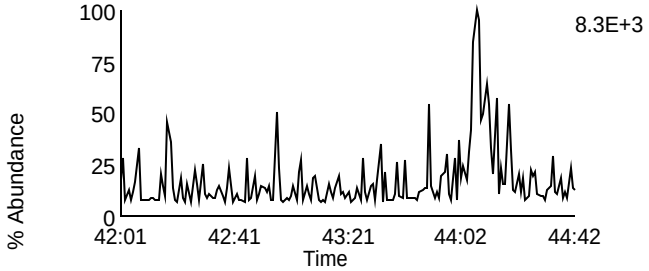
SAMP 10258392016 - SMT WI



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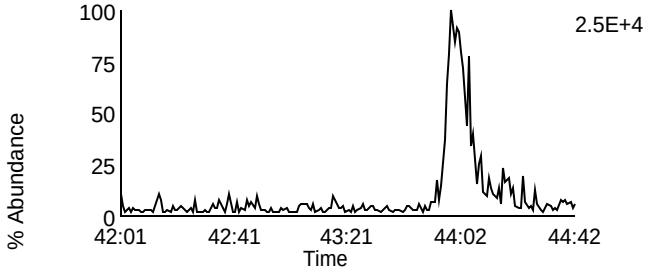
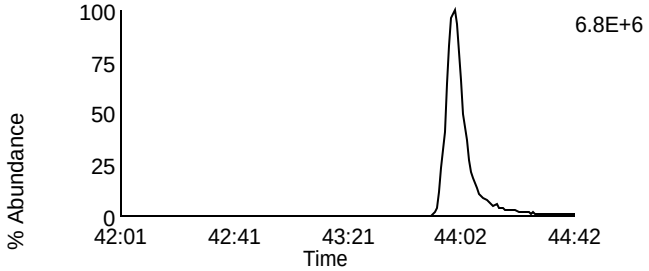
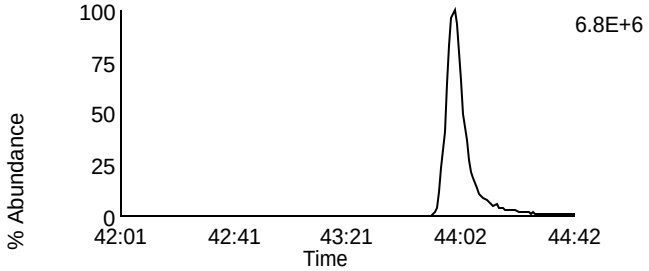
SAMP 10258392016 - SMT WI



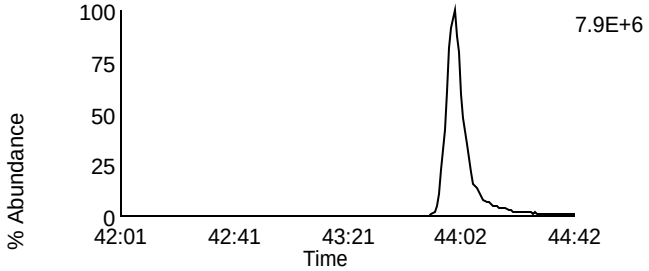
Data File: F140307A_05 G5 C11 - 469.7779
SAMP 10258392016 - SMT WI



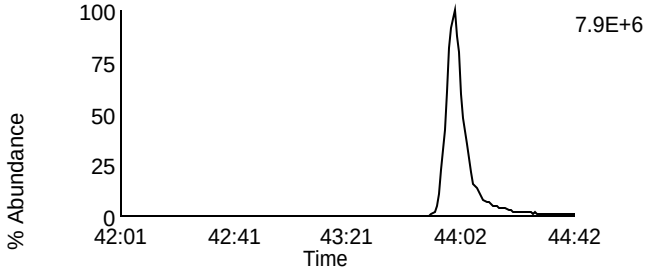
Data File: F140307A_05 G5 C11 - 469.7779
SAMP 10258392016 - SMT WI



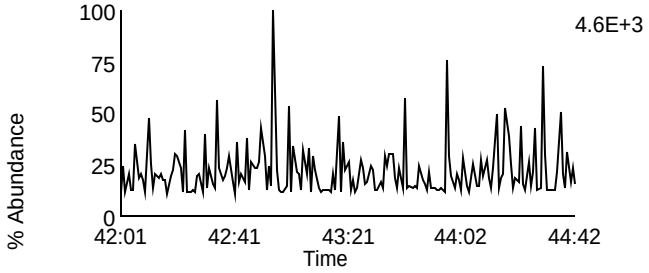
Data File: F140307A_05 G5 C12 - 471.7749
SAMP 10258392016 - SMT WI



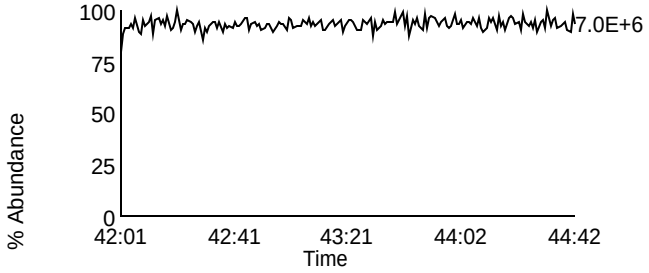
Data File: F140307A_05 G5 C12 - 471.7749
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G5 C13 - 513.6775
SAMP 10258392016 - SMT WI



Data File: F140307A_05 G5 C2 - 430.9728
SAMP 10258392016 - SMT WI

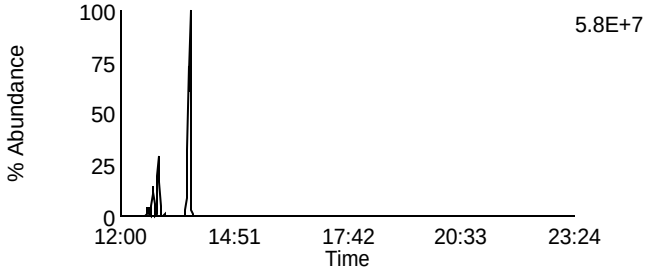


Homologue Group: Tetras

Data File Name: F140307A_06
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392017 - SMT WI

Lab Sample ID: 10258392017
Client Sample ID: MAK101L
Instrument: 10MSHR05 (F)

Data File: F140307A_06 G1 C1 - 303.9016
SAMP 10258392017 - SMT WI



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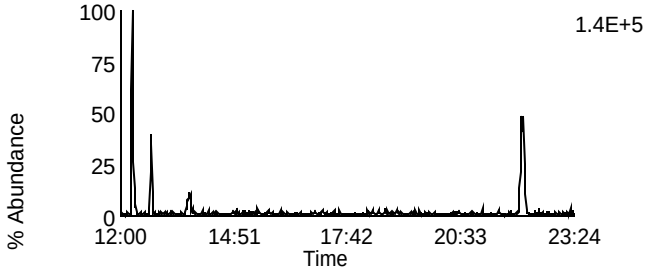
SAMP 10258392017 - SMT WI



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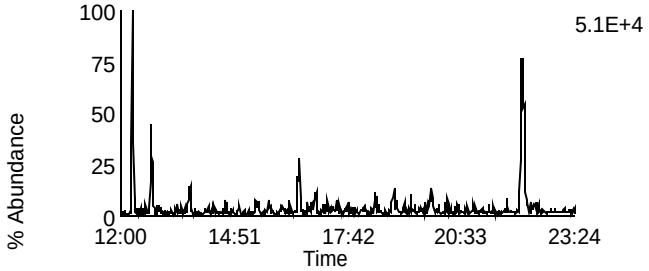
SAMP 10258392017 - SMT WI



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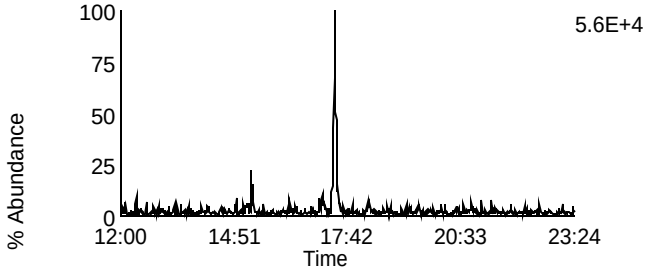
SAMP 10258392017 - SMT WI



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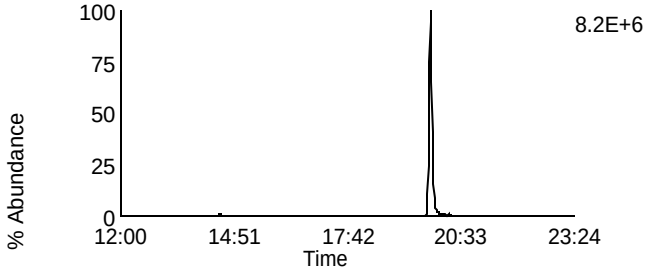
SAMP 10258392017 - SMT WI



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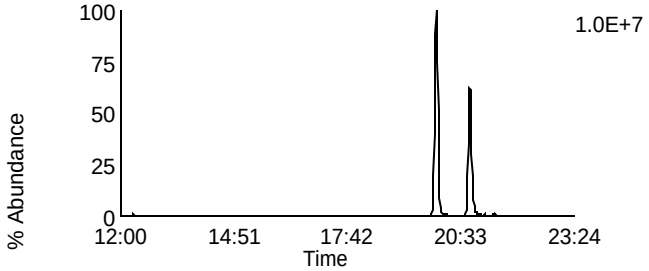
SAMP 10258392017 - SMT WI



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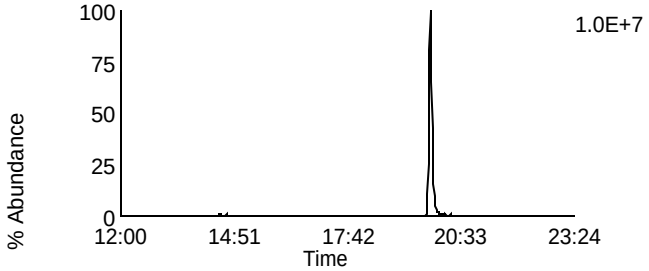
SAMP 10258392017 - SMT WI



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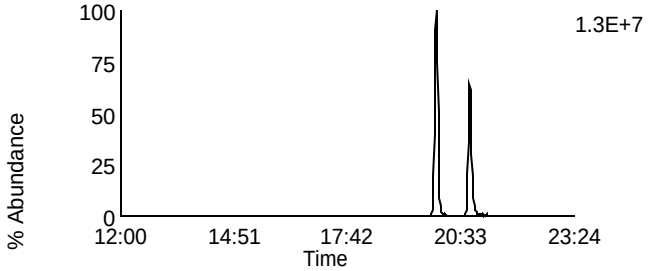
SAMP 10258392017 - SMT WI



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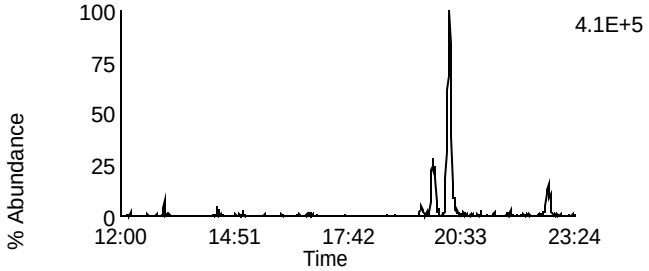
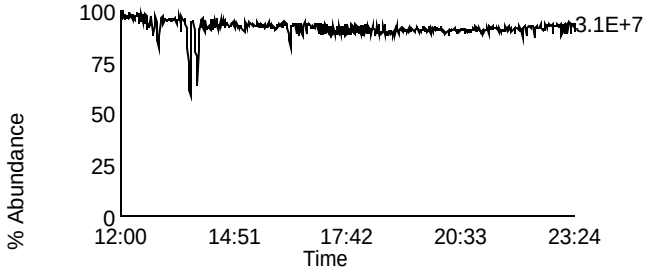
SAMP 10258392017 - SMT WI



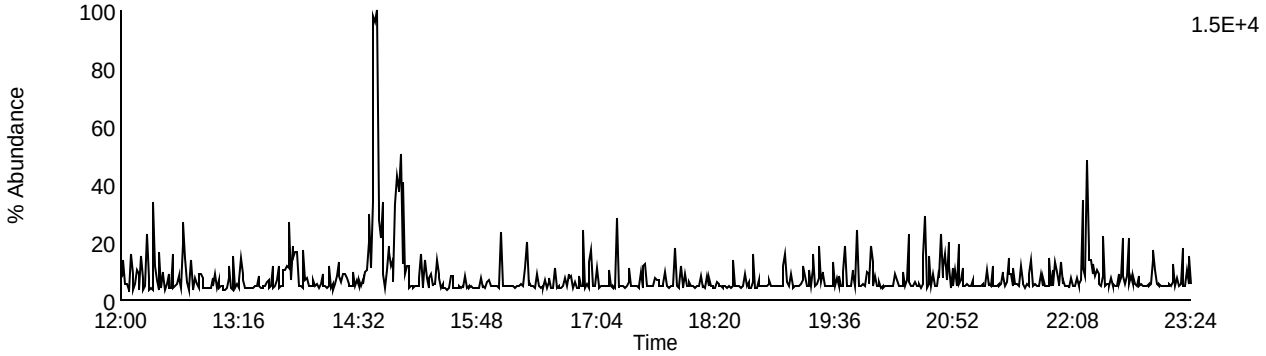
Data File: F140307A_06 G1 C5 - 318.9792
SAMP 10258392017 - SMT WI



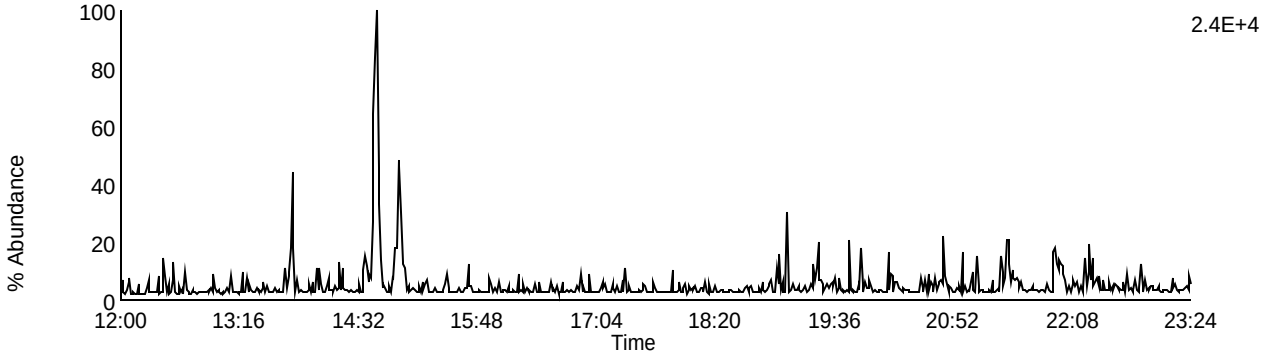
Homologue Group: Penta & Cleanup

Data File Name: F140307A_06	Lab Sample ID: 10258392017
Date Acquired: 3/7/2014	Client Sample ID: MAK101L
Sample Description: SAMP 10258392017 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_06 G1 C12 - 339.8597
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G1 C13 - 341.8567
SAMP 10258392017 - SMT WI



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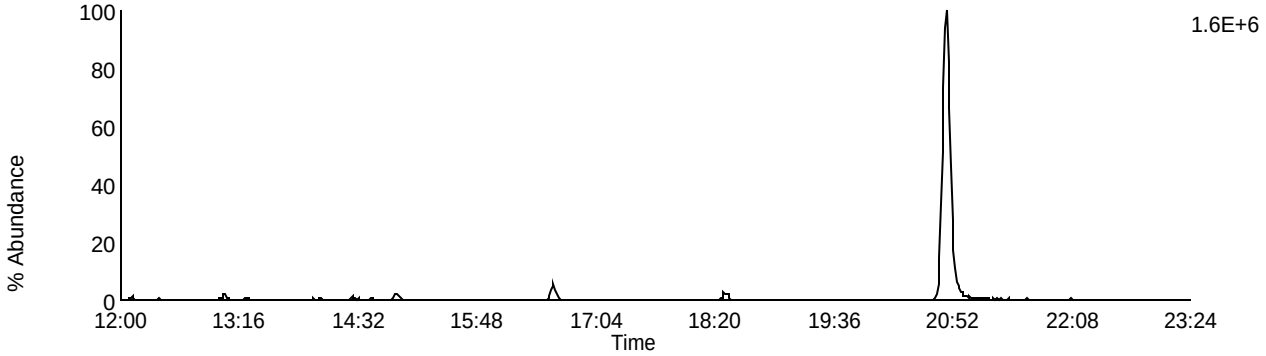
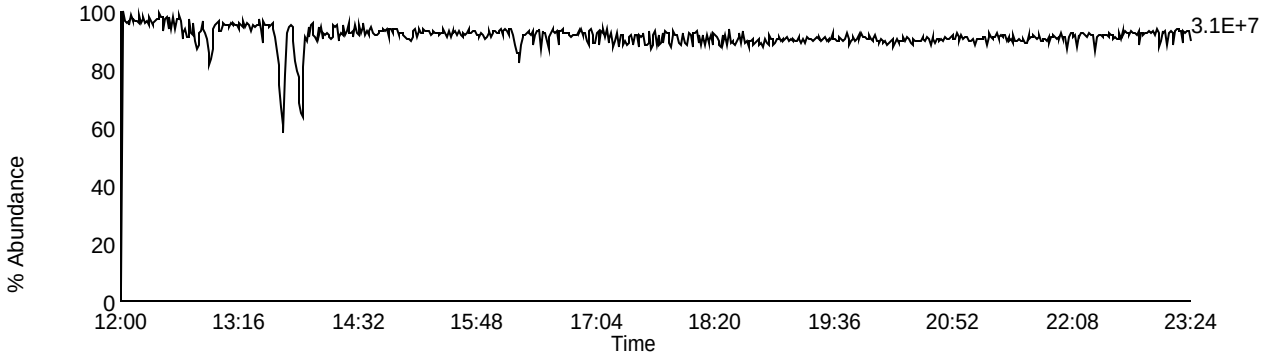
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G1 C5 - 318.9792
SAMP 10258392017 - SMT WI

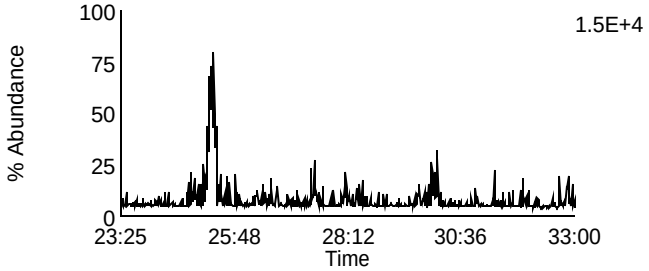


Homologue Group: Pentas

Data File Name: F140307A_06
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392017 - SMT WI

Lab Sample ID: 10258392017
Client Sample ID: MAK101L
Instrument: 10MSHR05 (F)

Data File: F140307A_06 G2 C1 - 339.8597
SAMP 10258392017 - SMT WI



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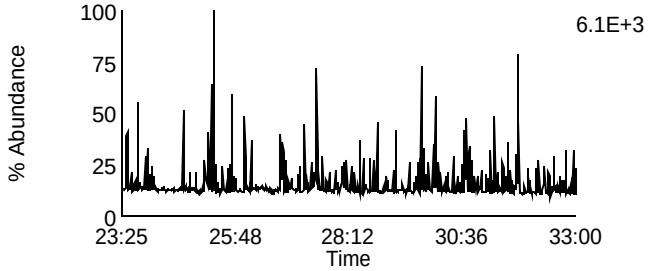
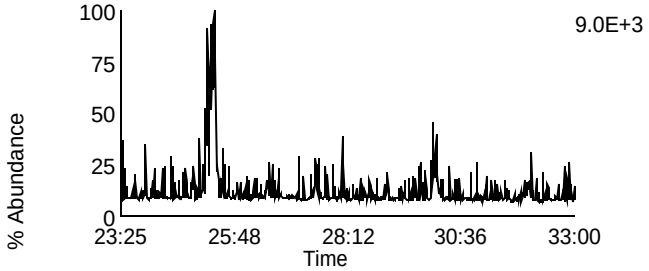
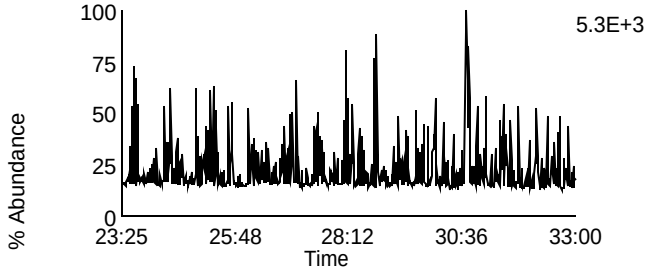
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G2 C2 - 341.8567
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G2 C8 - 355.8546
SAMP 10258392017 - SMT WI



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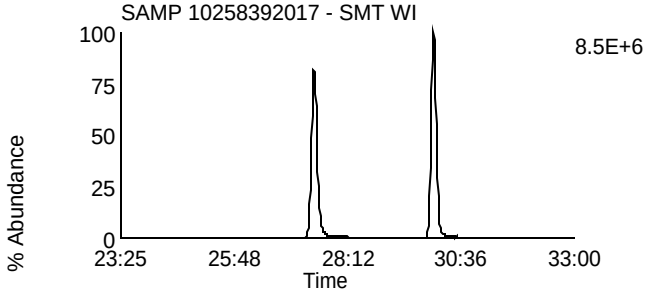
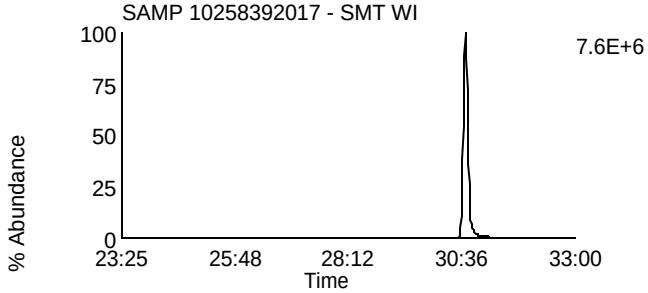
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G2 C10 - 367.8948
SAMP 10258392017 - SMT WI



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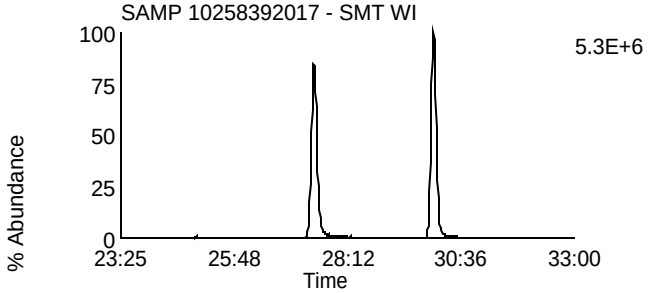
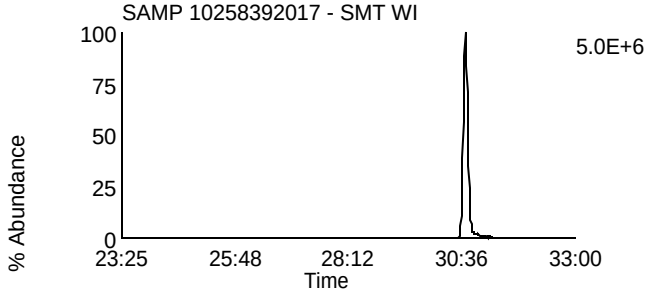
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G2 C11 - 369.8918
SAMP 10258392017 - SMT WI



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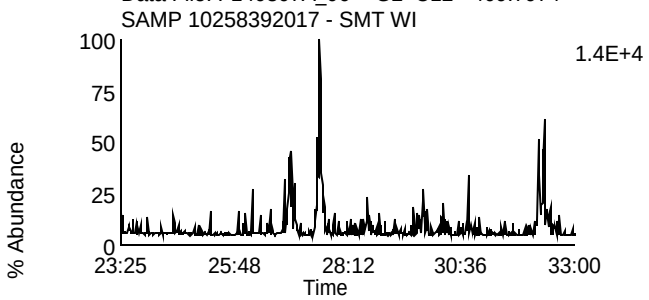
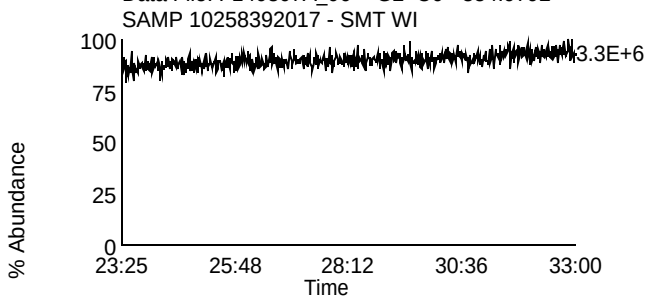
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G2 C6 - 354.9792
SAMP 10258392017 - SMT WI

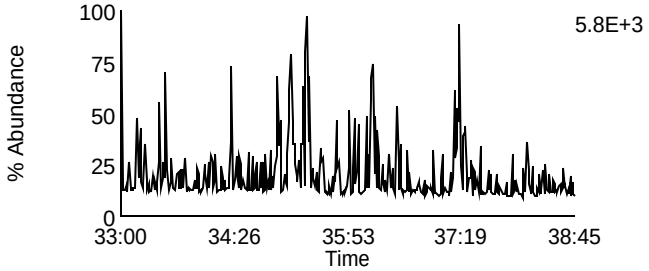


Homologue Group: Hexas

Data File Name: F140307A_06
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392017 - SMT WI

Lab Sample ID: 10258392017
Client Sample ID: MAK101L
Instrument: 10MSHR05 (F)

Data File: F140307A_06 G3 C1 - 373.8207
SAMP 10258392017 - SMT WI



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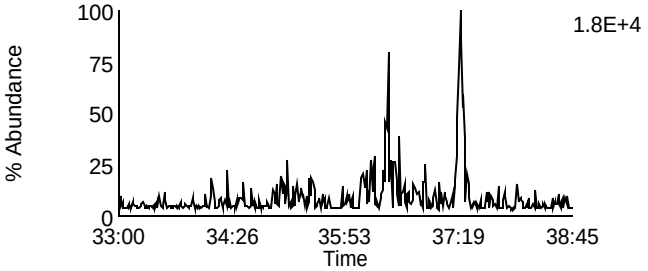
SAMP 10258392017 - SMT WI



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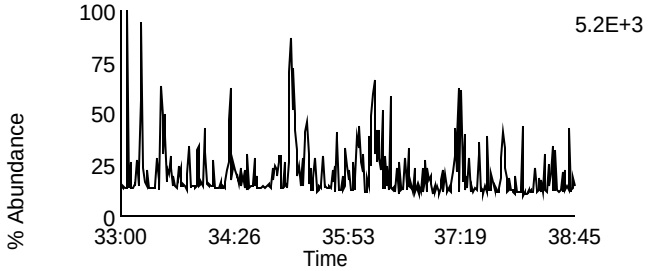
SAMP 10258392017 - SMT WI



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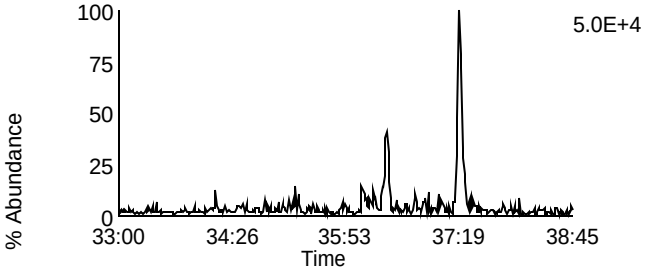
SAMP 10258392017 - SMT WI



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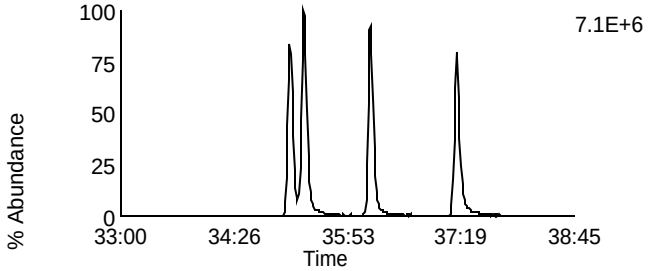
SAMP 10258392017 - SMT WI



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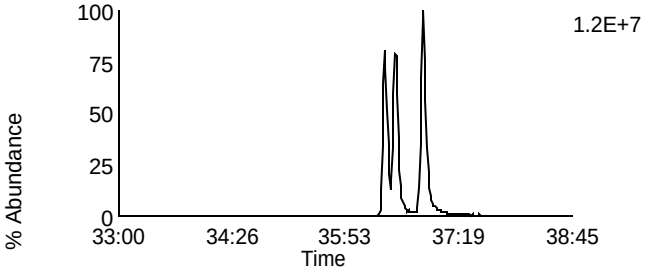
SAMP 10258392017 - SMT WI



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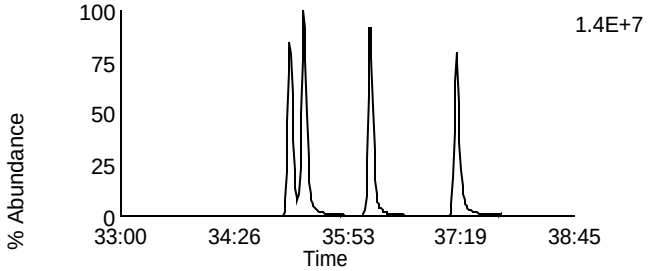
SAMP 10258392017 - SMT WI



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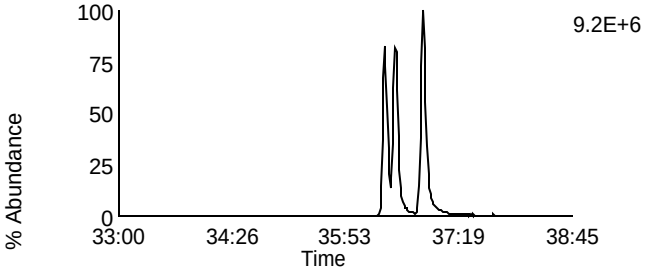
SAMP 10258392017 - SMT WI



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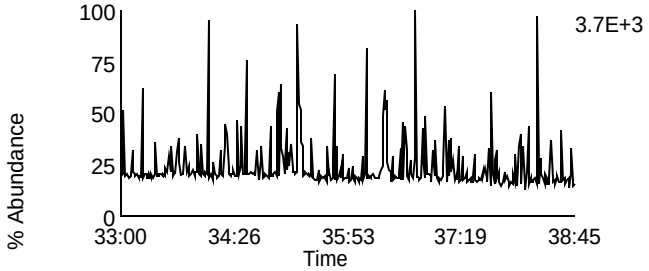
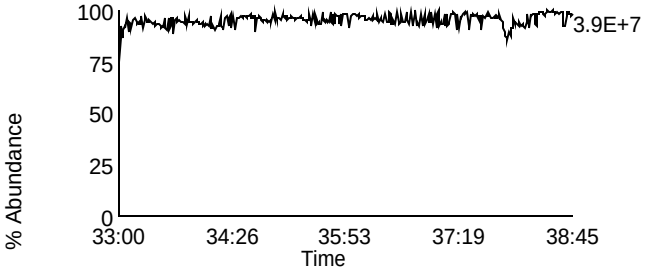
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G3 C3 - 380.976
SAMP 10258392017 - SMT WI

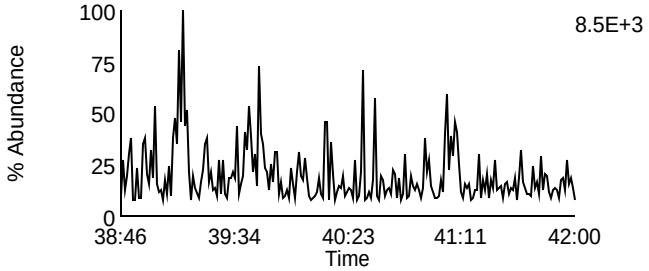


Homologue Group: Heptas

Data File Name: F140307A_06
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392017 - SMT WI

Lab Sample ID: 10258392017
Client Sample ID: MAK101L
Instrument: 10MSHR05 (F)

Data File: F140307A_06 G4 C3 - 407.7818
SAMP 10258392017 - SMT WI



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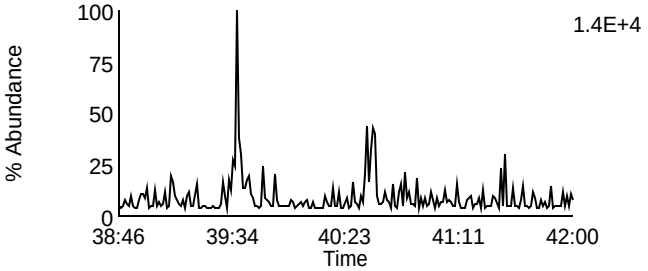
SAMP 10258392017 - SMT WI



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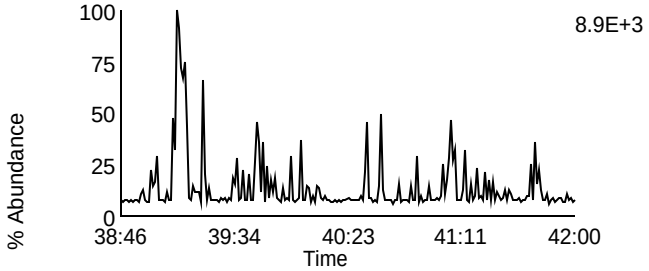
SAMP 10258392017 - SMT WI



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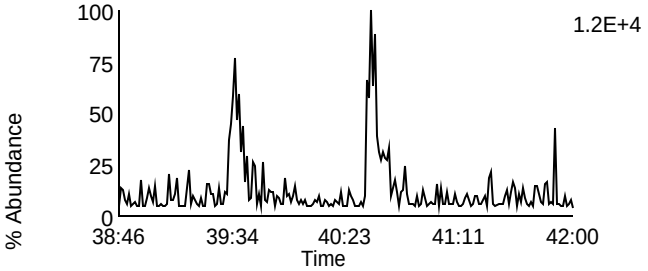
SAMP 10258392017 - SMT WI



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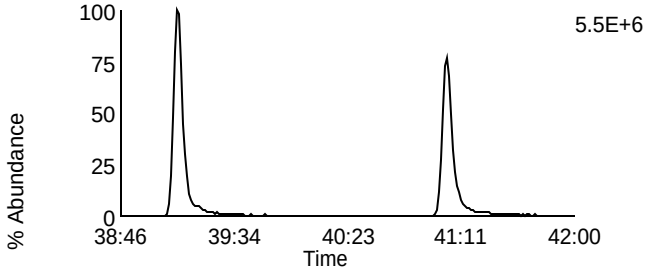
SAMP 10258392017 - SMT WI



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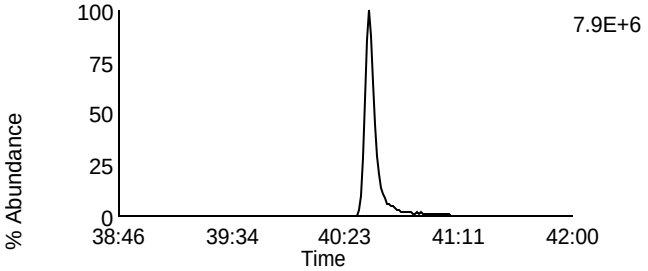
SAMP 10258392017 - SMT WI



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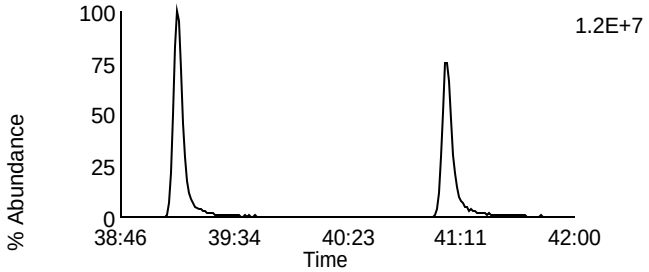
SAMP 10258392017 - SMT WI



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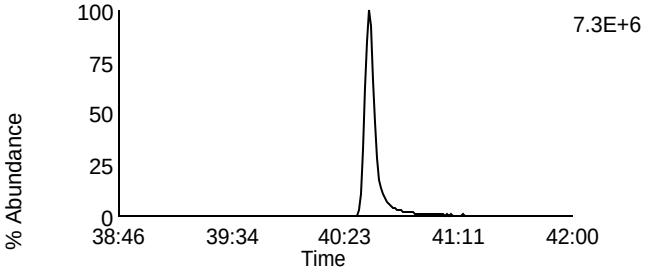
SAMP 10258392017 - SMT WI



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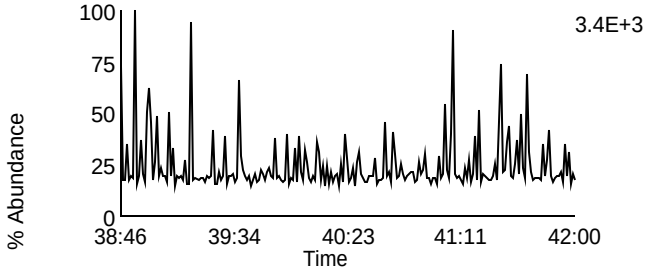
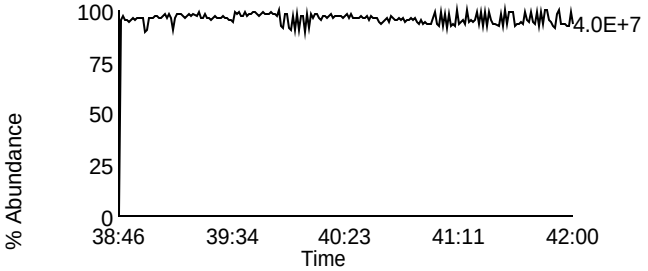
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G4 C1 - 380.976
SAMP 10258392017 - SMT WI

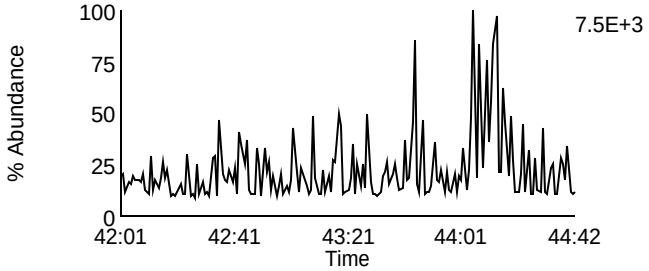


Homologue Group: Octas

Data File Name: F140307A_06
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392017 - SMT WI

Lab Sample ID: 10258392017
Client Sample ID: MAK101L
Instrument: 10MSHR05 (F)

Data File: F140307A_06 G5 C4 - 441.7428
SAMP 10258392017 - SMT WI



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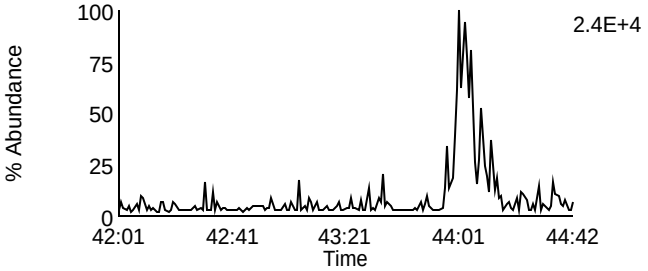
SAMP 10258392017 - SMT WI



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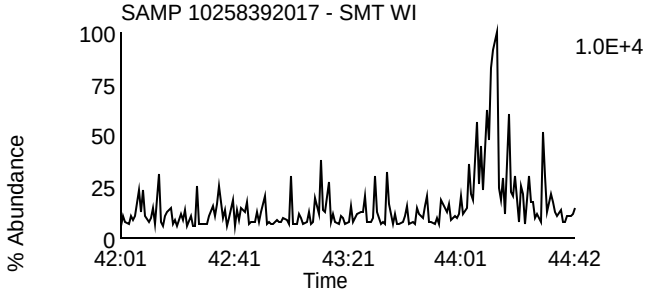
SAMP 10258392017 - SMT WI



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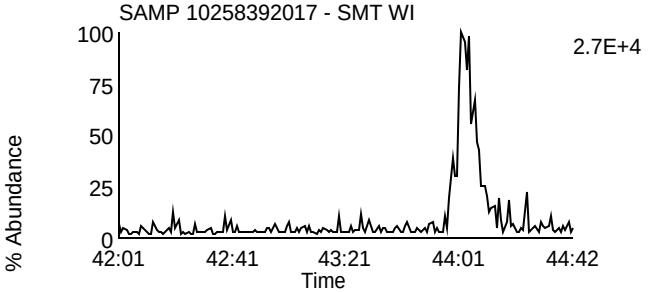
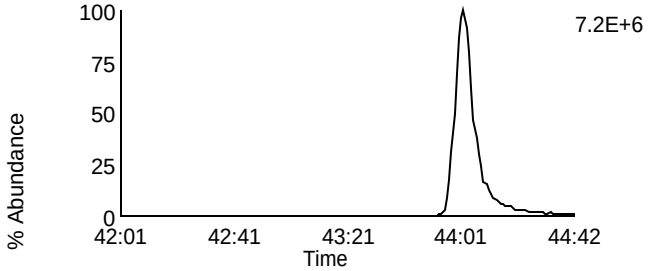
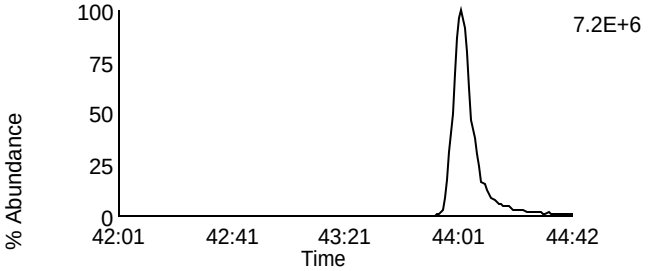
SAMP 10258392017 - SMT WI



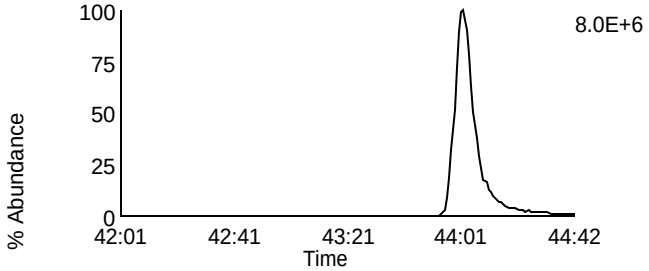
Data File: F140307A_06 G5 C11 - 469.7779
SAMP 10258392017 - SMT WI



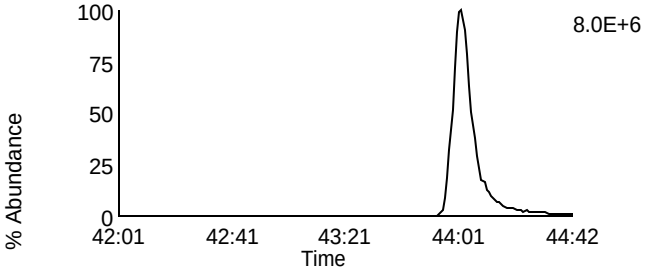
Data File: F140307A_06 G5 C11 - 469.7779
SAMP 10258392017 - SMT WI



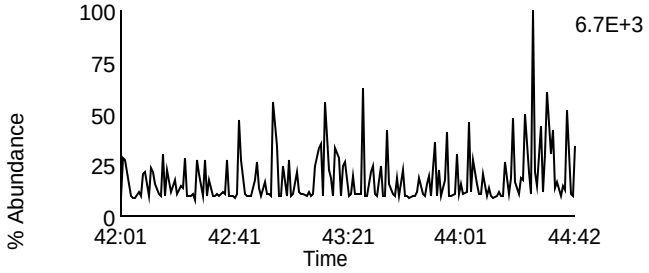
Data File: F140307A_06 G5 C12 - 471.7749
SAMP 10258392017 - SMT WI



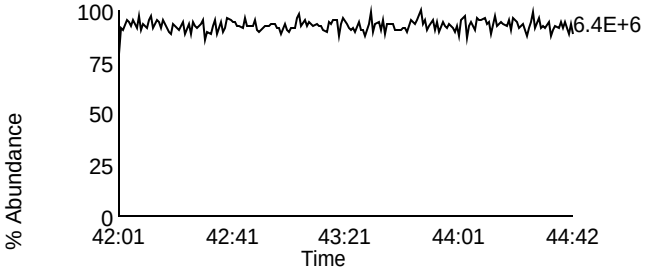
Data File: F140307A_06 G5 C12 - 471.7749
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G5 C13 - 513.6775
SAMP 10258392017 - SMT WI



Data File: F140307A_06 G5 C2 - 430.9728
SAMP 10258392017 - SMT WI

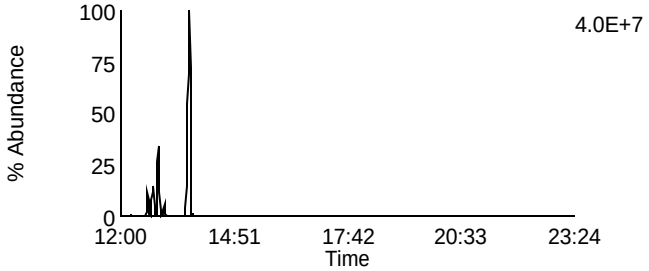


Homologue Group: Tetras

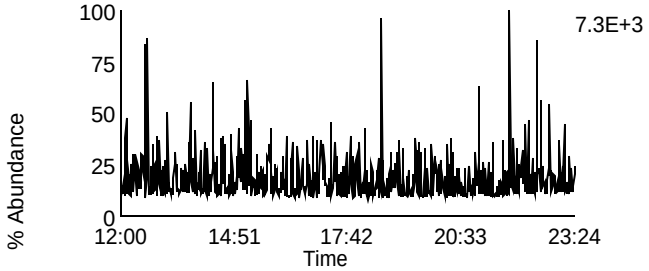
Data File Name: F140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392018 - SMT WI

Lab Sample ID: 10258392018
Client Sample ID: MAK102L
Instrument: 10MSHR05 (F)

Data File: F140307A_07 G1 C1 - 303.9016
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G1 C7 - 319.8965
SAMP 10258392018 - SMT WI



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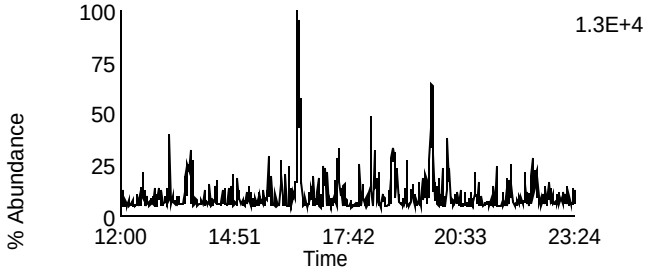
SAMP 10258392018 - SMT WI



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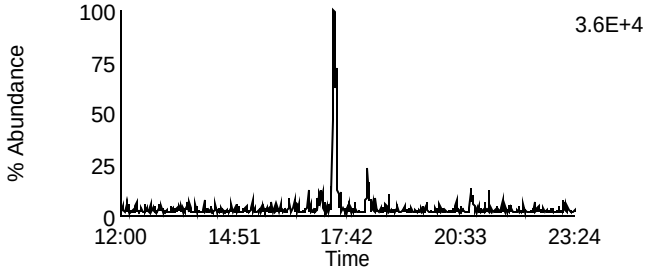
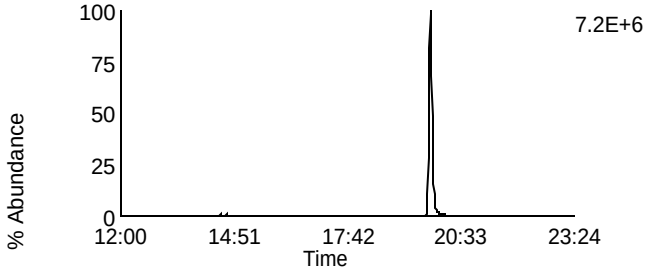
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G1 C3 - 315.9418
SAMP 10258392018 - SMT WI



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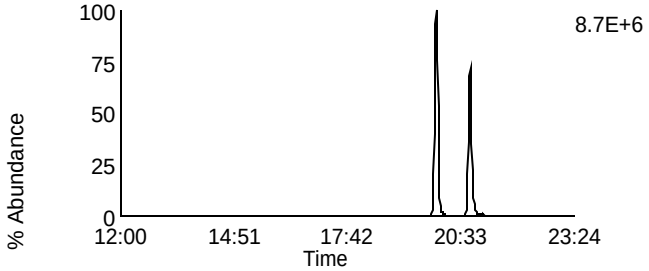
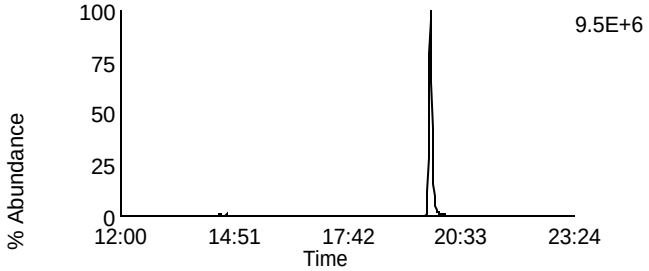
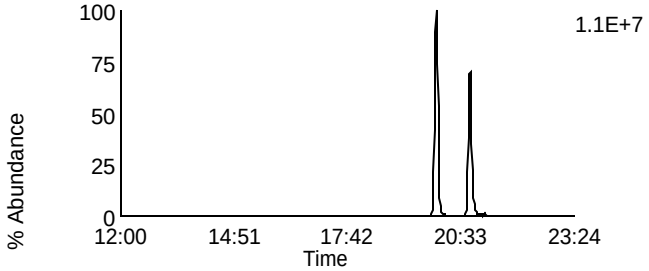
SAMP 10258392018 - SMT WI



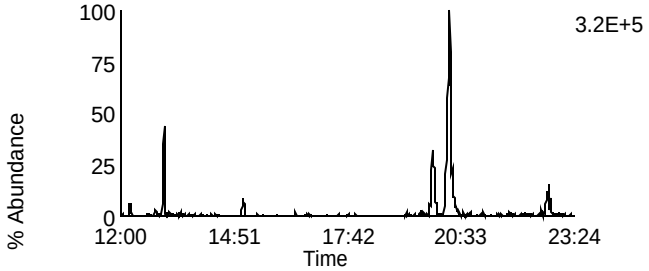
Data File: F140307A_07 G1 C4 - 317.9389
SAMP 10258392018 - SMT WI



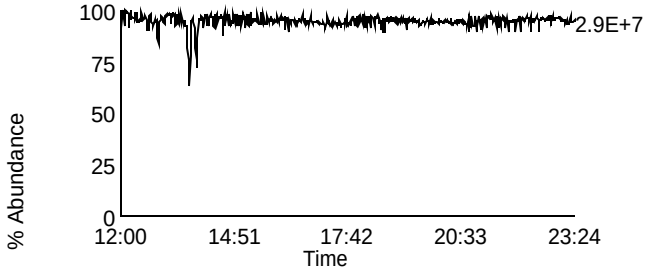
Data File: F140307A_07 G1 C11 - 333.9338
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G1 C14 - 375.8364
SAMP 10258392018 - SMT WI



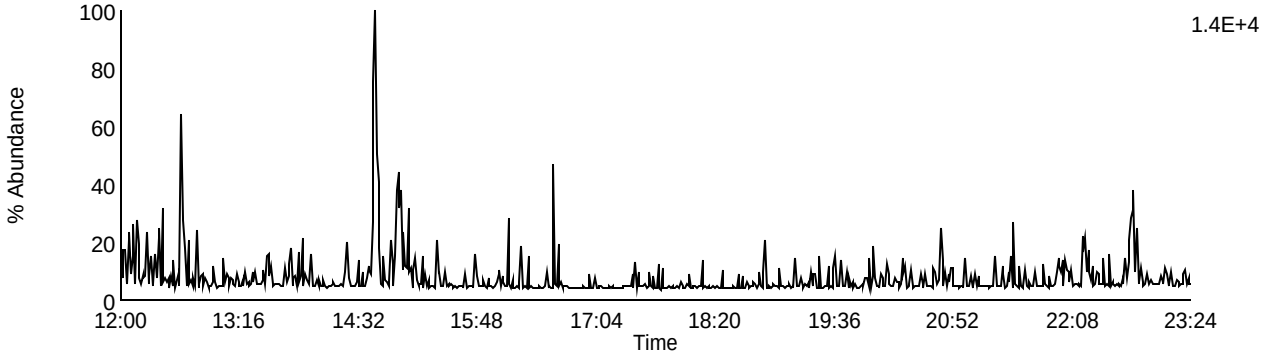
Data File: F140307A_07 G1 C5 - 318.9792
SAMP 10258392018 - SMT WI



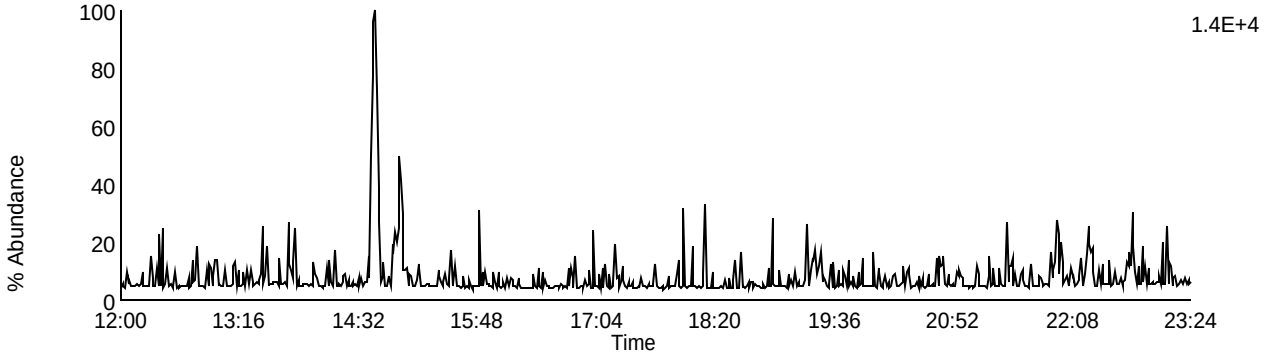
Homologue Group: Penta & Cleanup

Data File Name: F140307A_07	Lab Sample ID: 10258392018
Date Acquired: 3/7/2014	Client Sample ID: MAK102L
Sample Description: SAMP 10258392018 - SMT WI	Instrument: 10MSHR05 (F)

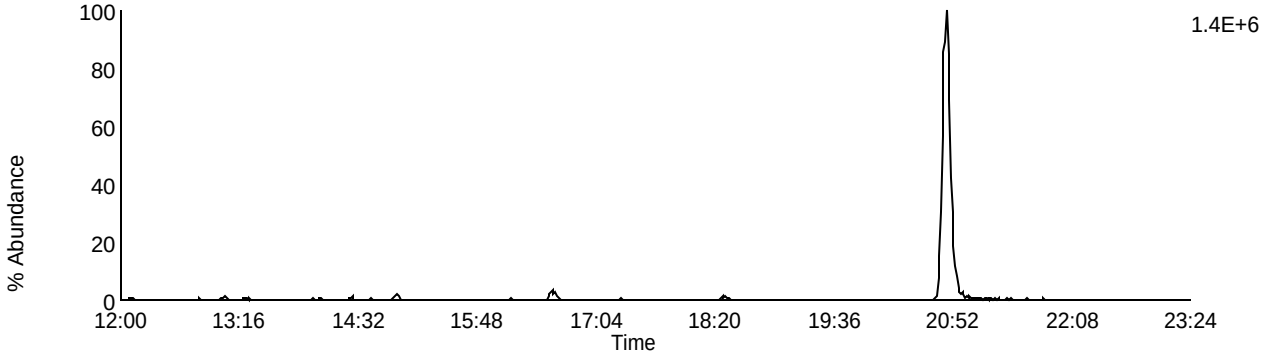
Data File: F140307A_07 G1 C12 - 339.8597
SAMP 10258392018 - SMT WI



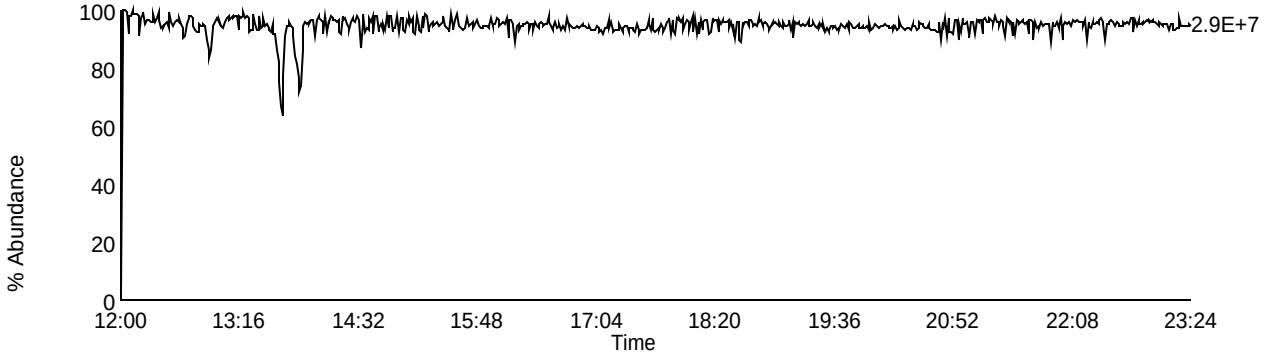
Data File: F140307A_07 G1 C13 - 341.8567
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G1 C9 - 327.8847
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G1 C5 - 318.9792
SAMP 10258392018 - SMT WI

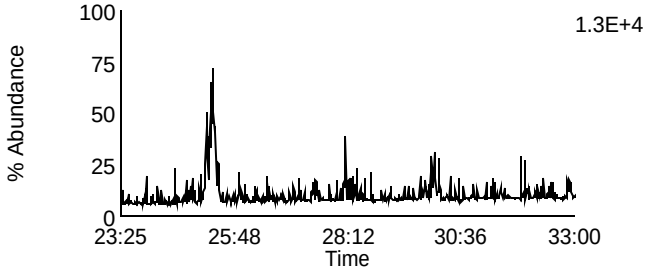


Homologue Group: Pentas

Data File Name: F140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392018 - SMT WI

Lab Sample ID: 10258392018
Client Sample ID: MAK102L
Instrument: 10MSHR05 (F)

Data File: F140307A_07 G2 C1 - 339.8597
SAMP 10258392018 - SMT WI



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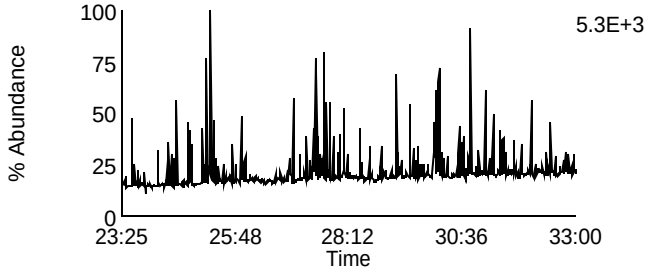
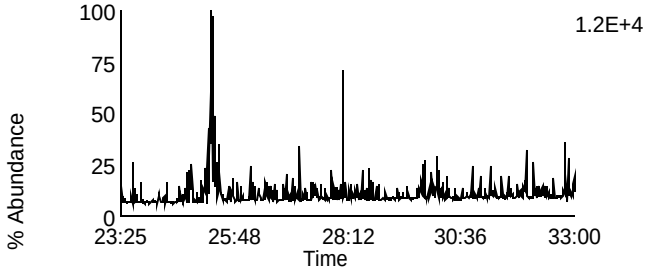
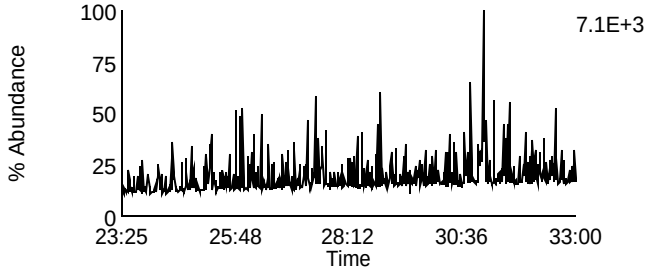
SAMP 10258392018 - SMT WI



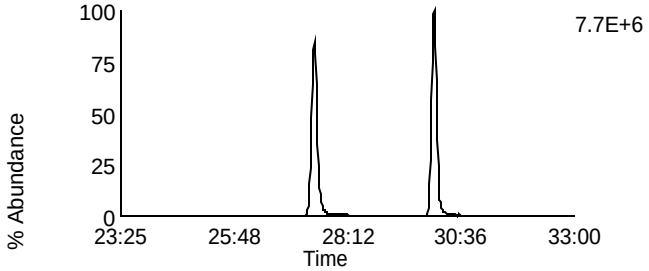
Data File: F140307A_07 G2 C2 - 341.8567
SAMP 10258392018 - SMT WI



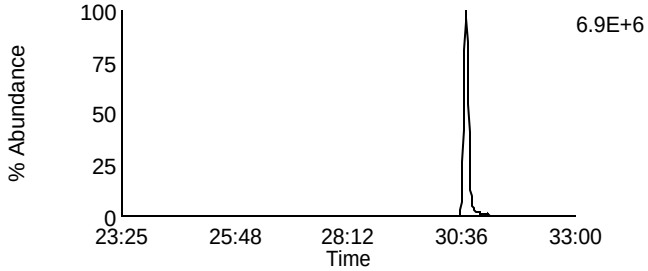
Data File: F140307A_07 G2 C8 - 355.8546
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G2 C3 - 351.8999
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G2 C10 - 367.8948
SAMP 10258392018 - SMT WI



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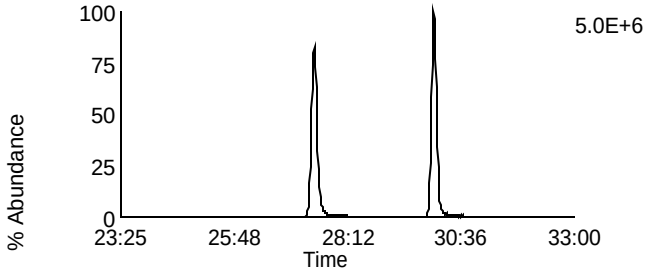
SAMP 10258392018 - SMT WI



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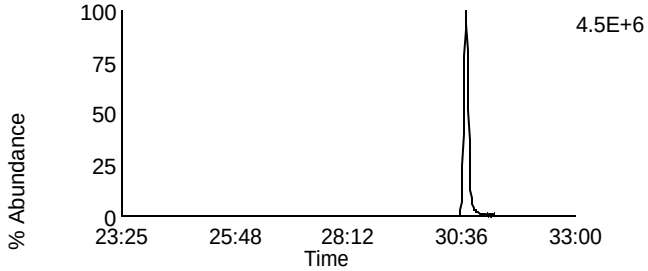
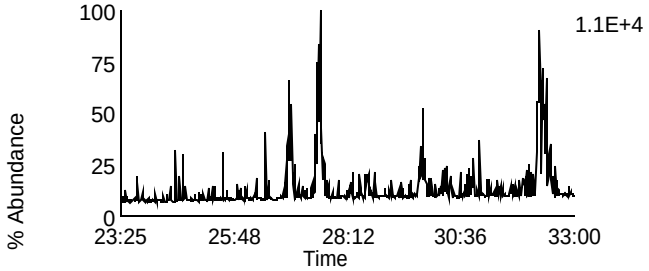
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G2 C12 - 409.7974
SAMP 10258392018 - SMT WI



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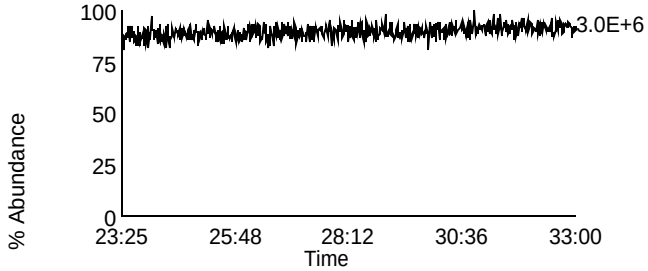
SAMP 10258392018 - SMT WI

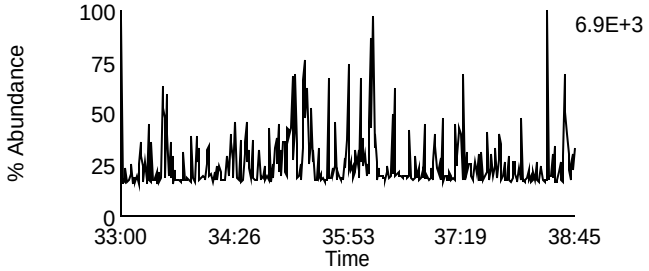


Homologue Group: Hexas

Data File Name: F140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392018 - SMT WI

Lab Sample ID: 10258392018
Client Sample ID: MAK102L
Instrument: 10MSHR05 (F)

Data File: F140307A_07 G3 C1 - 373.8207
SAMP 10258392018 - SMT WI



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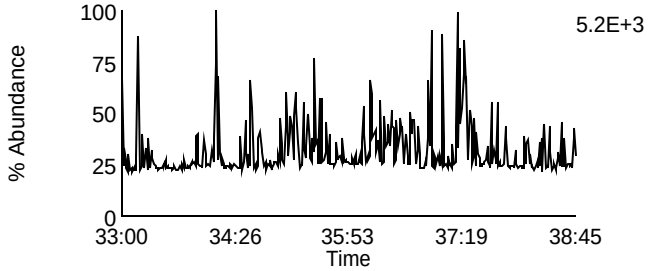
SAMP 10258392018 - SMT WI



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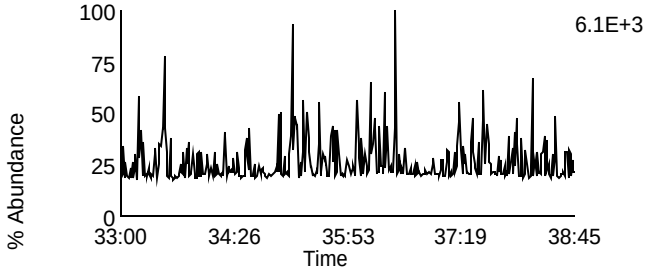
SAMP 10258392018 - SMT WI



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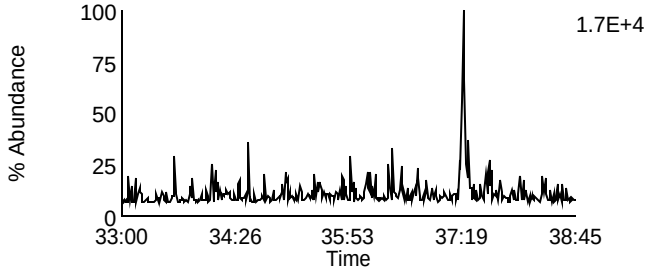
SAMP 10258392018 - SMT WI



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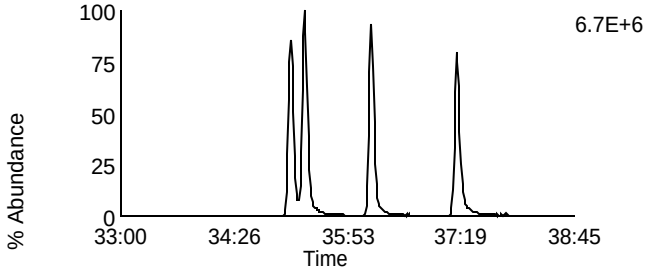
SAMP 10258392018 - SMT WI



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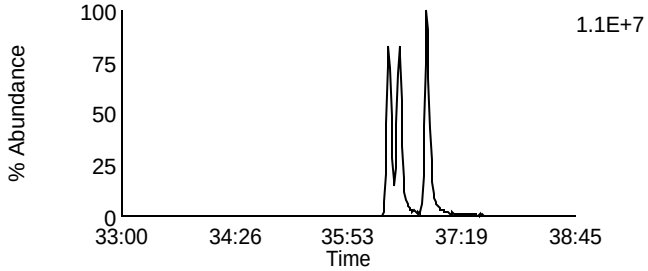
SAMP 10258392018 - SMT WI



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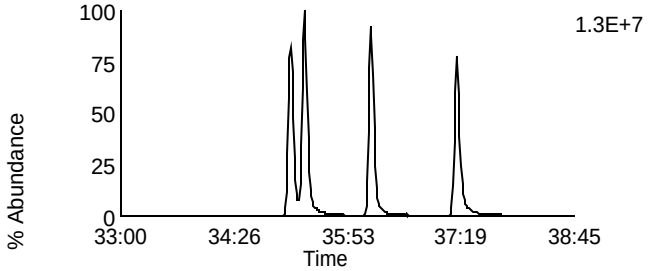
SAMP 10258392018 - SMT WI



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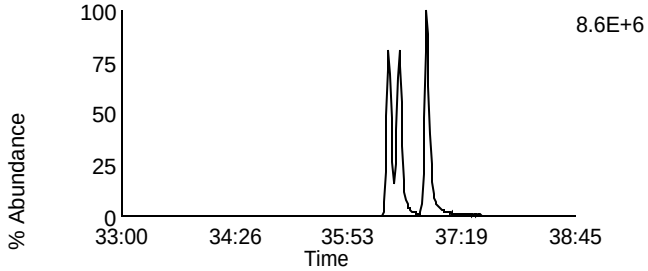
SAMP 10258392018 - SMT WI



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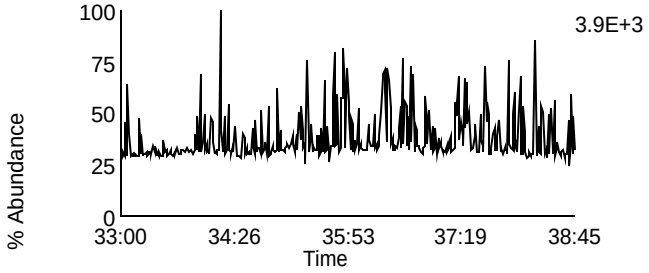
SAMP 10258392018 - SMT WI



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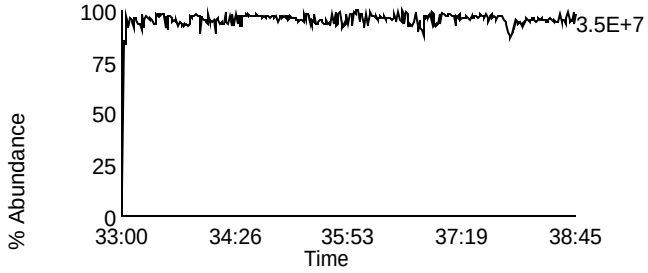
SAMP 10258392018 - SMT WI

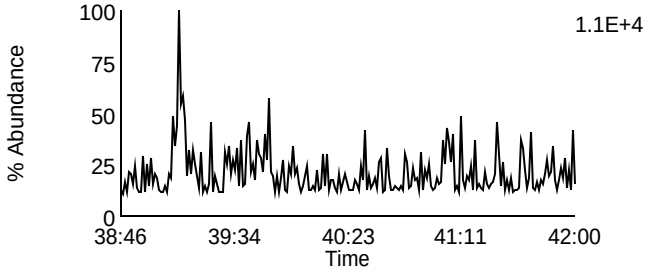


Homologue Group: Heptas

Data File Name: F140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392018 - SMT WI

Lab Sample ID: 10258392018
Client Sample ID: MAK102L
Instrument: 10MSHR05 (F)

Data File: F140307A_07 G4 C3 - 407.7818
SAMP 10258392018 - SMT WI



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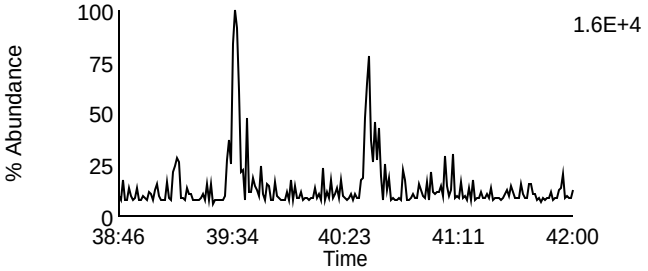
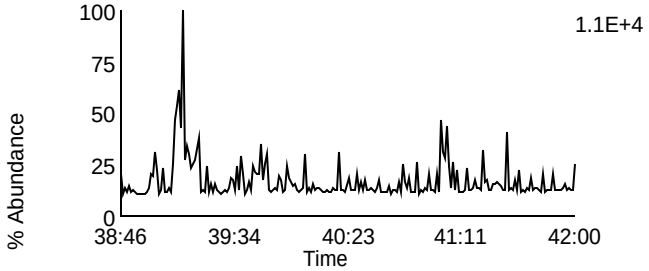
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G4 C4 - 409.7788
SAMP 10258392018 - SMT WI



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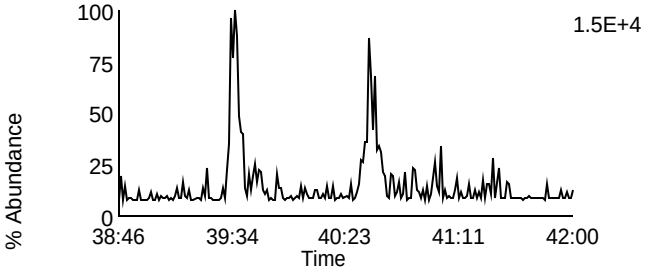
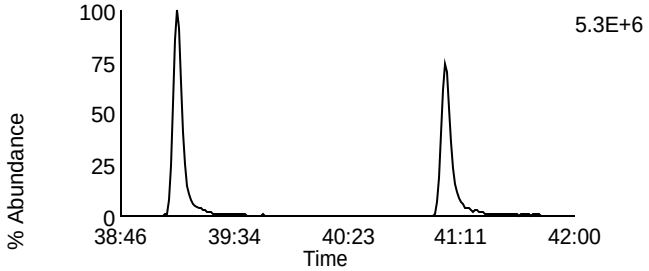
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G4 C6 - 417.825
SAMP 10258392018 - SMT WI



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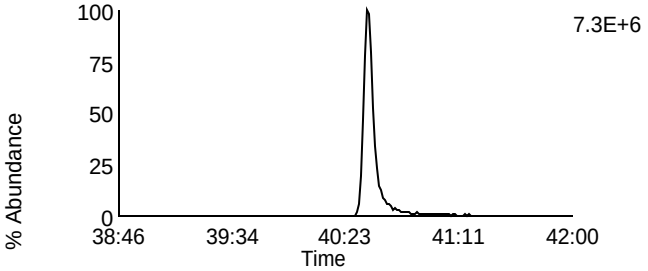
SAMP 10258392018 - SMT WI



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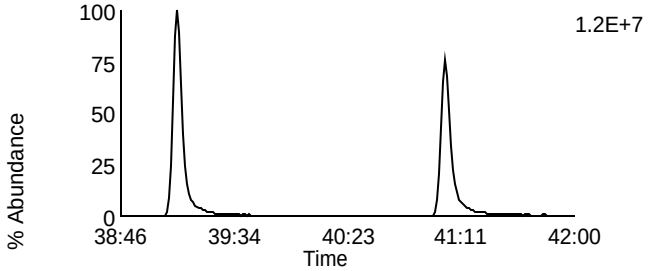
SAMP 10258392018 - SMT WI



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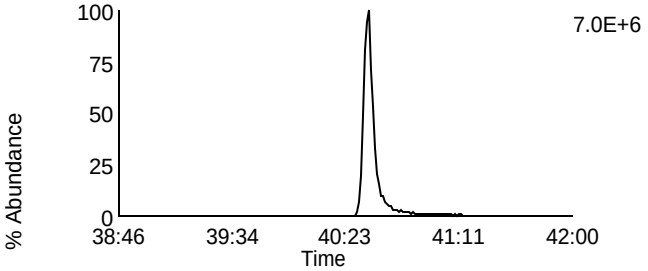
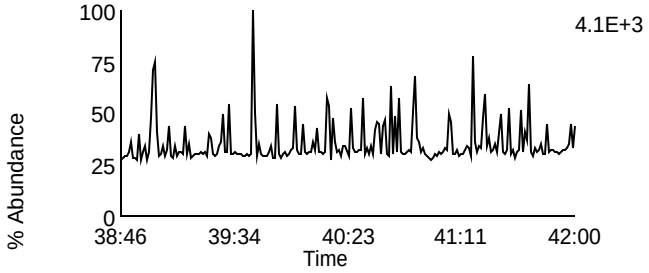
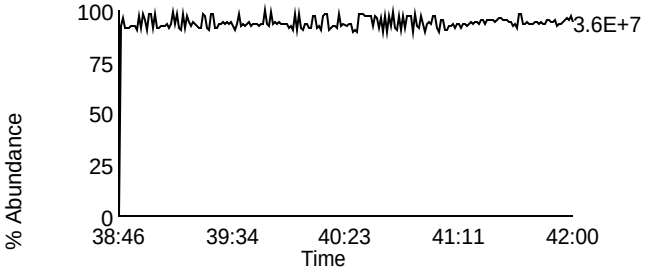
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G4 C13 - 479.7165
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G4 C1 - 380.976
SAMP 10258392018 - SMT WI

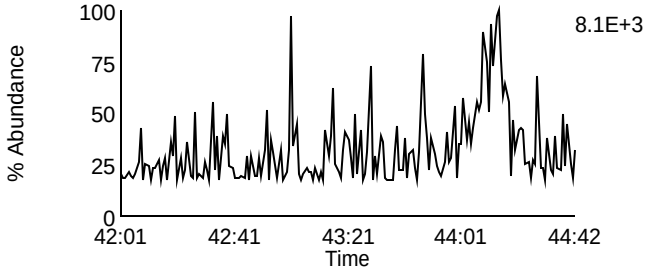


Homologue Group: Octas

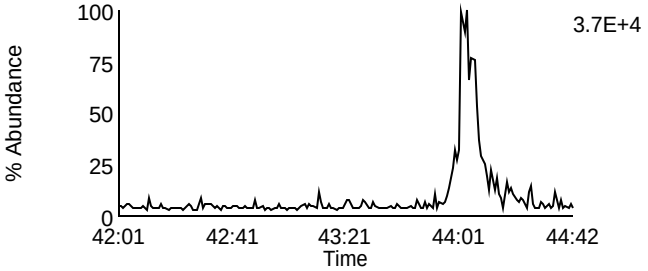
Data File Name: F140307A_07
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392018 - SMT WI

Lab Sample ID: 10258392018
Client Sample ID: MAK102L
Instrument: 10MSHR05 (F)

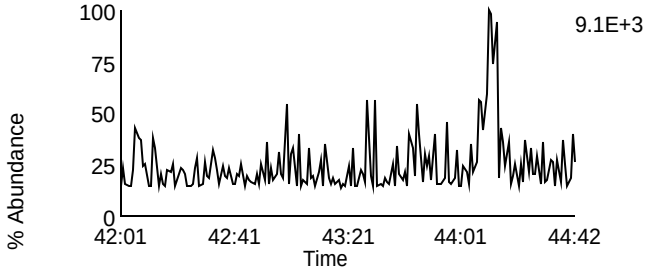
Data File: F140307A_07 G5 C4 - 441.7428
SAMP 10258392018 - SMT WI



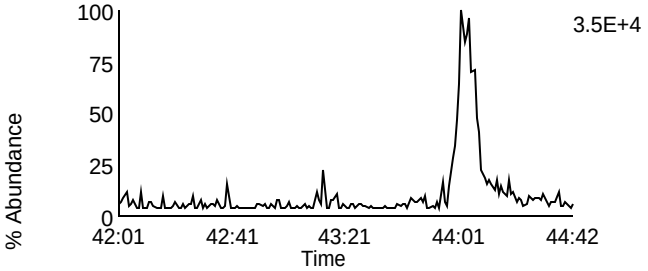
Data File: F140307A_07 G5 C8 - 457.7377
SAMP 10258392018 - SMT WI



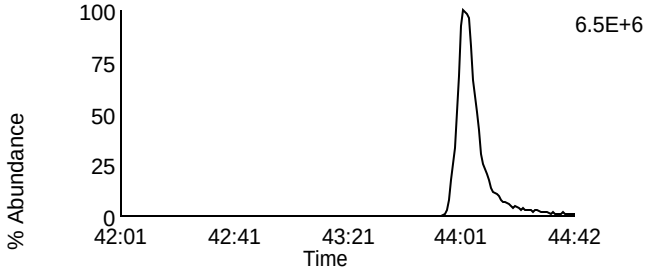
Data File: F140307A_07 G5 C5 - 443.7398
SAMP 10258392018 - SMT WI



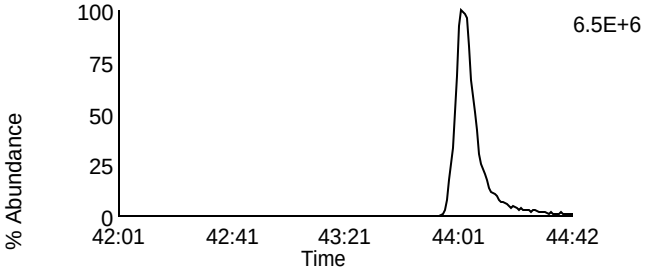
Data File: F140307A_07 G5 C9 - 459.7347
SAMP 10258392018 - SMT WI



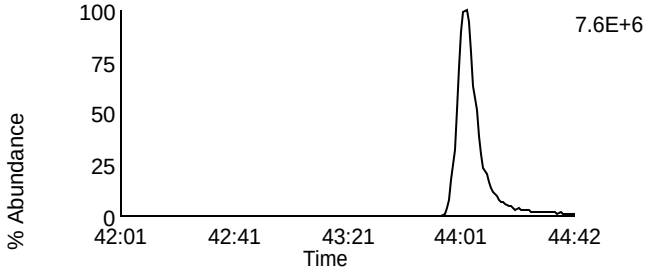
Data File: F140307A_07 G5 C11 - 469.7779
SAMP 10258392018 - SMT WI



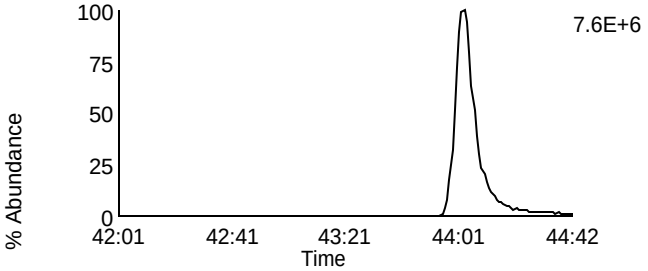
Data File: F140307A_07 G5 C11 - 469.7779
SAMP 10258392018 - SMT WI



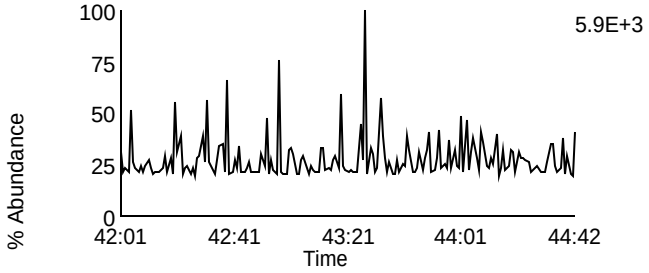
Data File: F140307A_07 G5 C12 - 471.7749
SAMP 10258392018 - SMT WI



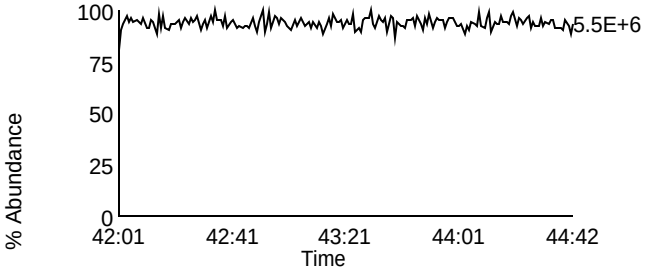
Data File: F140307A_07 G5 C12 - 471.7749
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G5 C13 - 513.6775
SAMP 10258392018 - SMT WI



Data File: F140307A_07 G5 C2 - 430.9728
SAMP 10258392018 - SMT WI

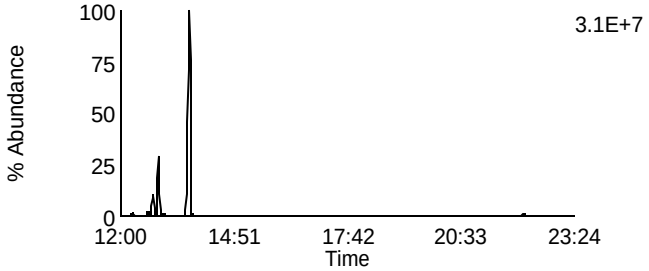


Homologue Group: Tetras

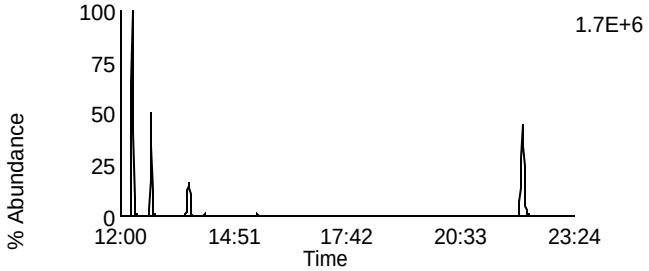
Data File Name: F140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392019 - SMT WI

Lab Sample ID: 10258392019
Client Sample ID: MAK105L
Instrument: 10MSHR05 (F)

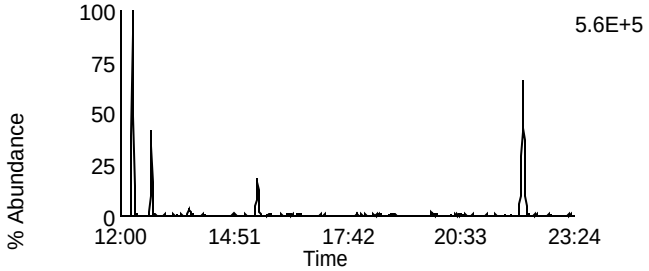
Data File: F140307A_08 G1 C1 - 303.9016
SAMP 10258392019 - SMT WI



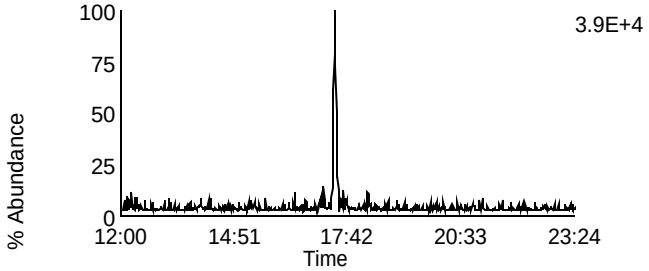
Data File: F140307A_08 G1 C7 - 319.8965
SAMP 10258392019 - SMT WI



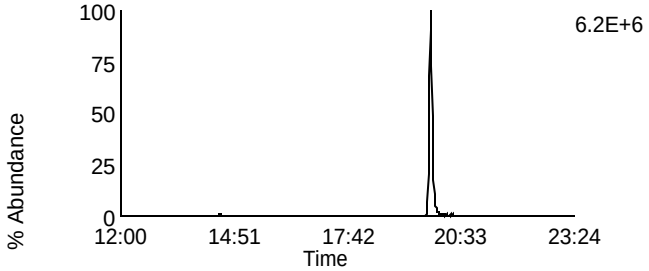
Data File: F140307A_08 G1 C2 - 305.8987
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G1 C8 - 321.8936
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G1 C3 - 315.9418
SAMP 10258392019 - SMT WI



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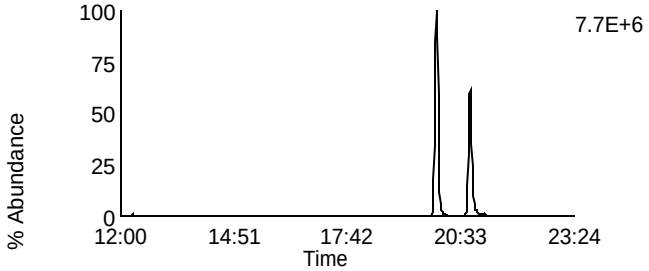
SAMP 10258392019 - SMT WI



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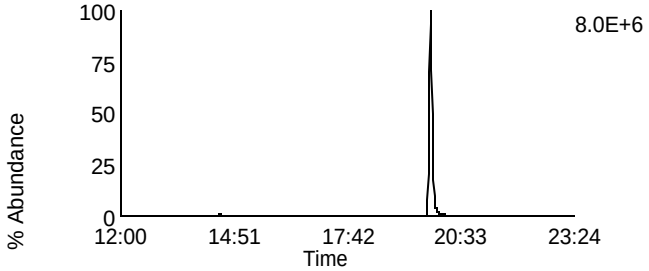
SAMP 10258392019 - SMT WI



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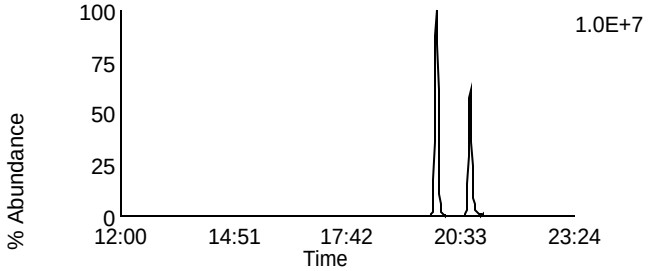
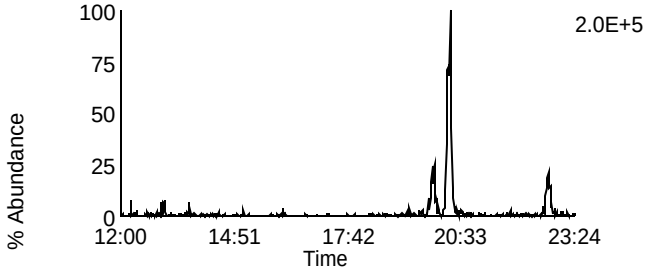
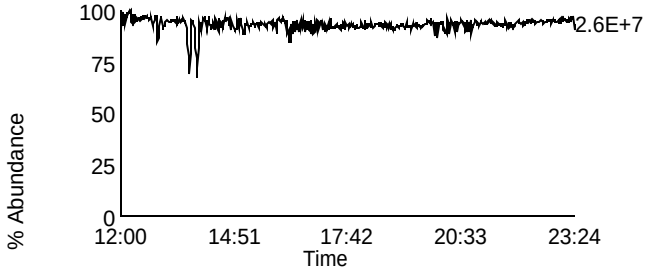
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G1 C14 - 375.8364
SAMP 10258392019 - SMT WI



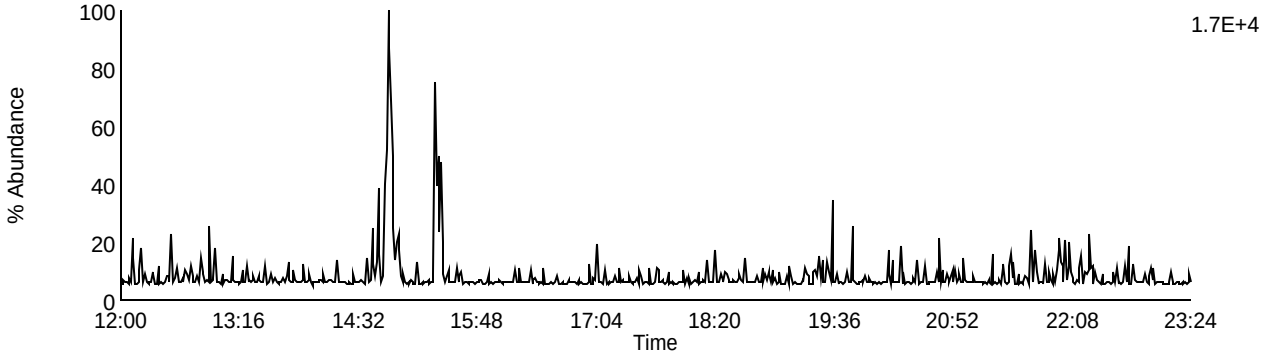
Data File: F140307A_08 G1 C5 - 318.9792
SAMP 10258392019 - SMT WI



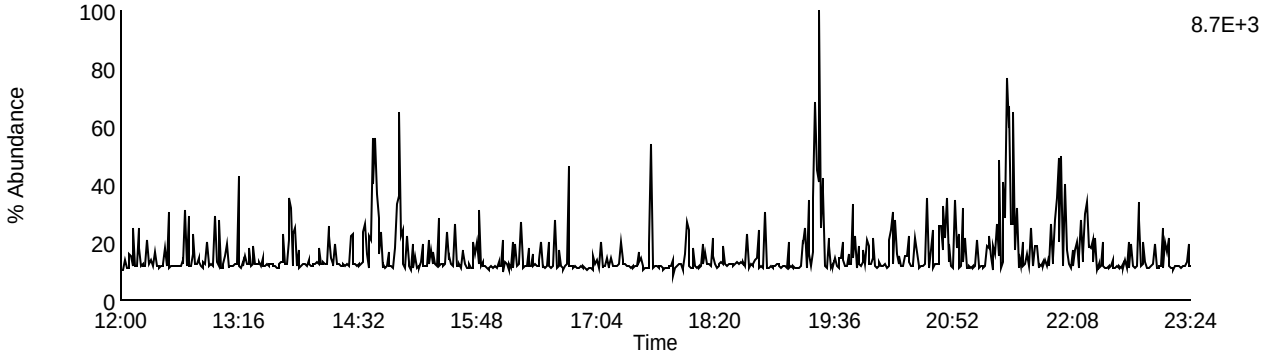
Homologue Group: Penta & Cleanup

Data File Name: F140307A_08	Lab Sample ID: 10258392019
Date Acquired: 3/7/2014	Client Sample ID: MAK105L
Sample Description: SAMP 10258392019 - SMT WI	Instrument: 10MSHR05 (F)

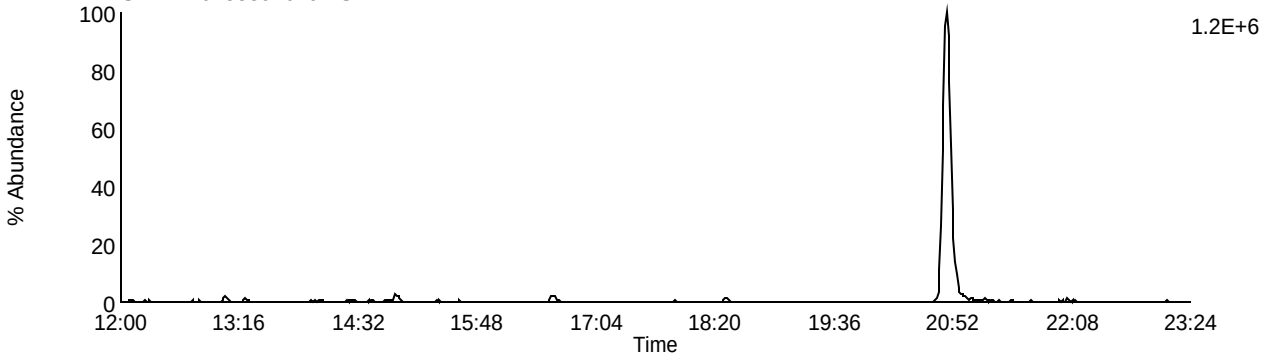
Data File: F140307A_08 G1 C12 - 339.8597
SAMP 10258392019 - SMT WI



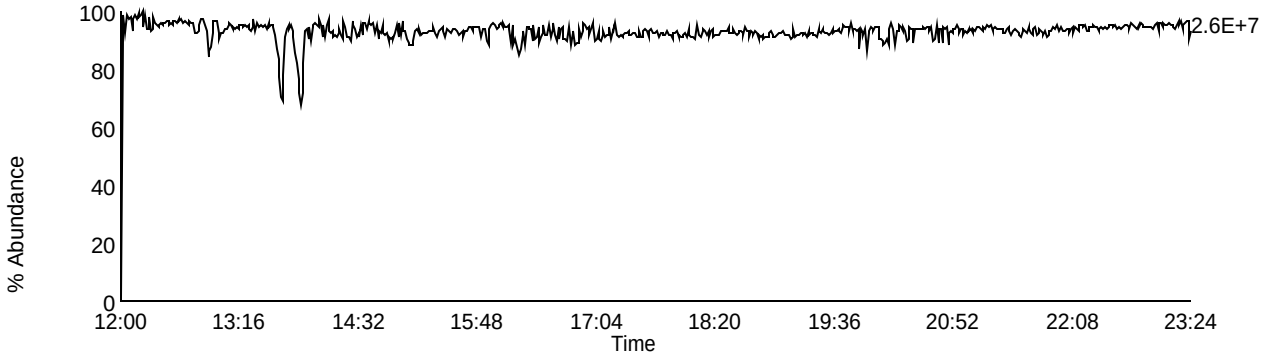
Data File: F140307A_08 G1 C13 - 341.8567
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G1 C9 - 327.8847
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G1 C5 - 318.9792
SAMP 10258392019 - SMT WI

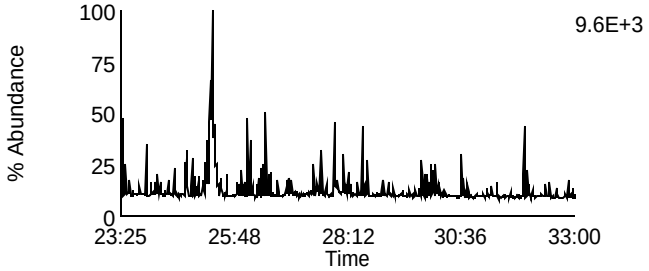


Homologue Group: Pentas

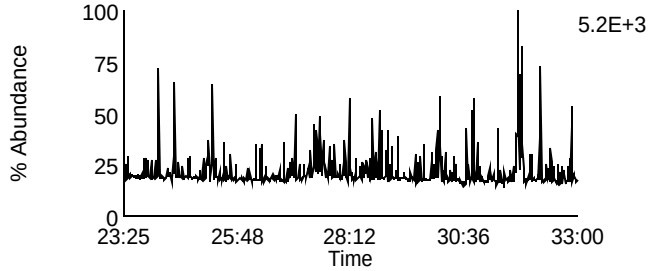
Data File Name: F140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392019 - SMT WI

Lab Sample ID: 10258392019
Client Sample ID: MAK105L
Instrument: 10MSHR05 (F)

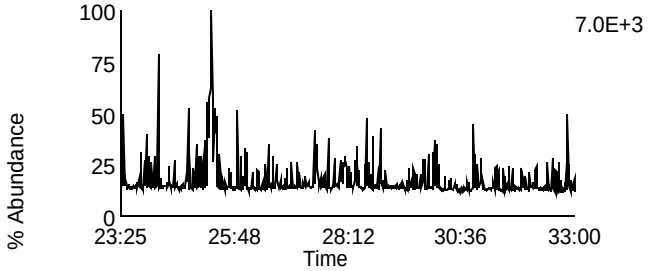
Data File: F140307A_08 G2 C1 - 339.8597
SAMP 10258392019 - SMT WI



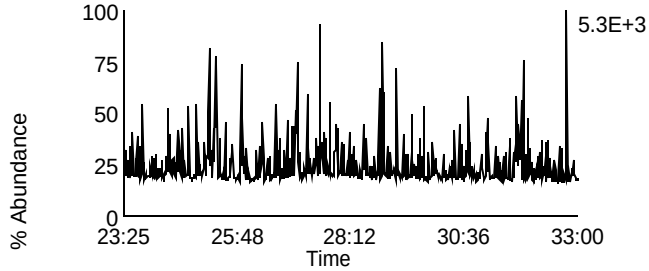
Data File: F140307A_08 G2 C4 - 353.8576
SAMP 10258392019 - SMT WI



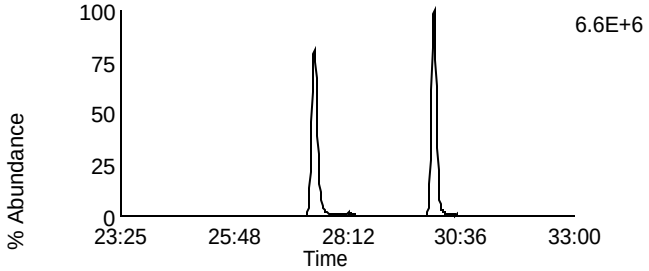
Data File: F140307A_08 G2 C2 - 341.8567
SAMP 10258392019 - SMT WI



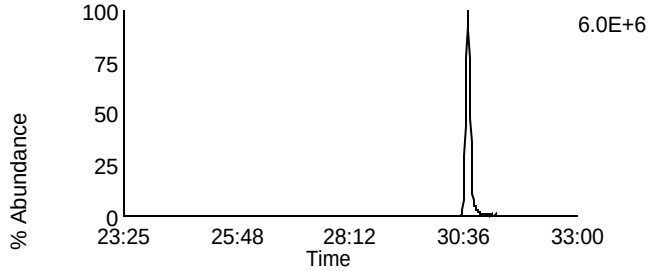
Data File: F140307A_08 G2 C8 - 355.8546
SAMP 10258392019 - SMT WI



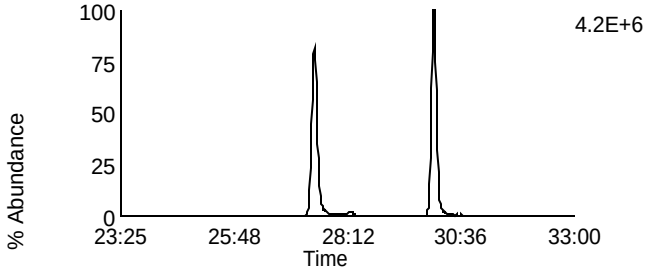
Data File: F140307A_08 G2 C3 - 351.8999
SAMP 10258392019 - SMT WI



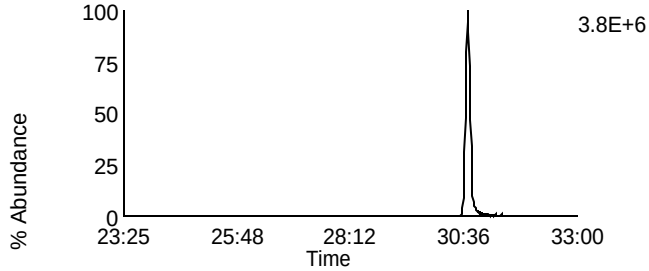
Data File: F140307A_08 G2 C10 - 367.8948
SAMP 10258392019 - SMT WI



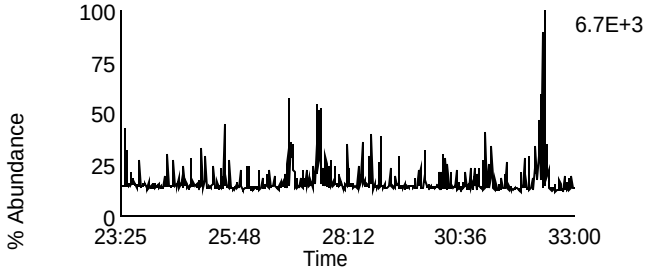
Data File: F140307A_08 G2 C5 - 353.8969
SAMP 10258392019 - SMT WI



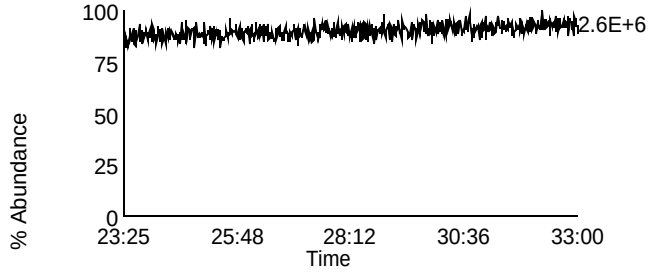
Data File: F140307A_08 G2 C11 - 369.8918
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G2 C12 - 409.7974
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G2 C6 - 354.9792
SAMP 10258392019 - SMT WI

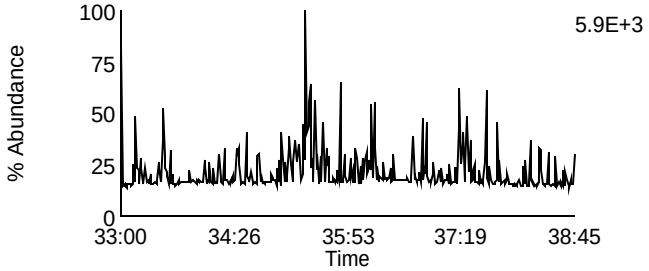


Homologue Group: Hexas

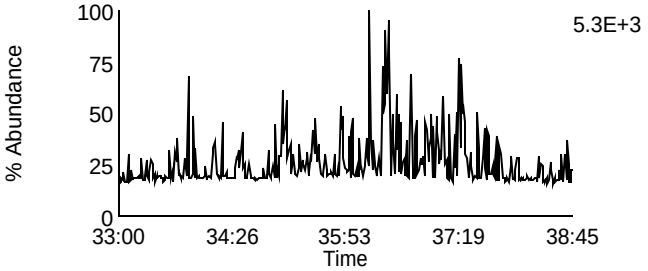
Data File Name: F140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392019 - SMT WI

Lab Sample ID: 10258392019
Client Sample ID: MAK105L
Instrument: 10MSHR05 (F)

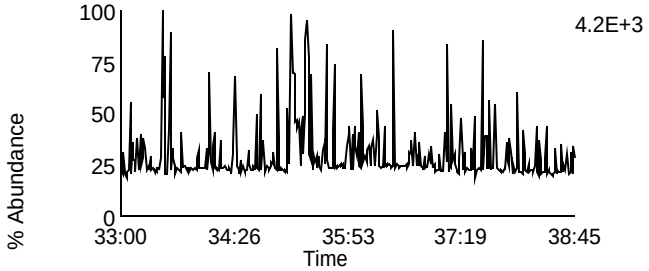
Data File: F140307A_08 G3 C1 - 373.8207
SAMP 10258392019 - SMT WI



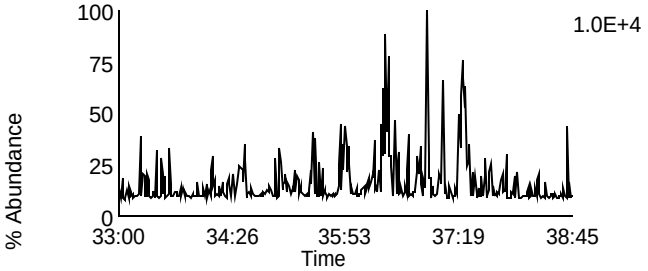
Data File: F140307A_08 G3 C7 - 389.8156
SAMP 10258392019 - SMT WI



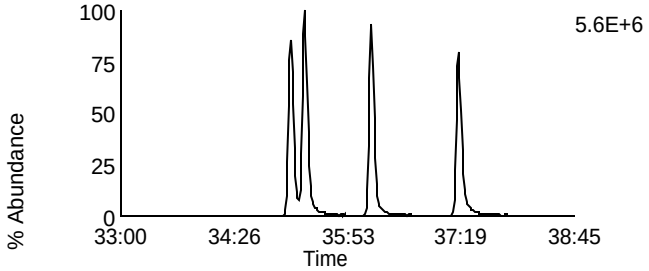
Data File: F140307A_08 G3 C2 - 375.8178
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G3 C8 - 391.8127
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G3 C5 - 383.8639
SAMP 10258392019 - SMT WI



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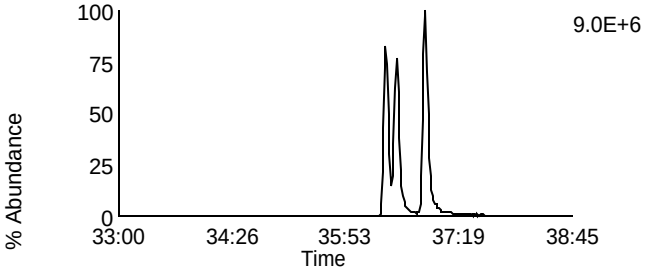
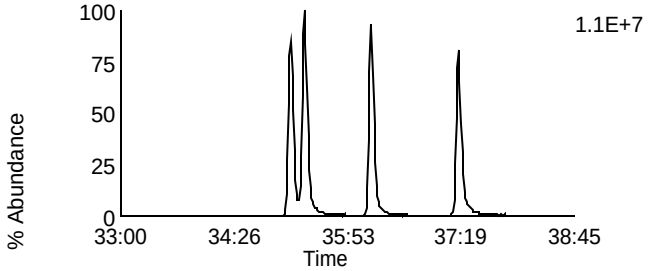
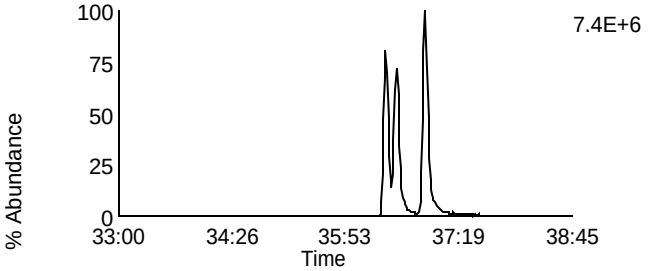
SAMP 10258392019 - SMT WI



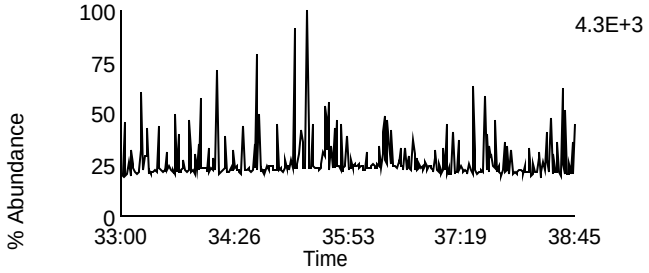
Data File: F140307A_08 G3 C6 - 385.861
SAMP 10258392019 - SMT WI



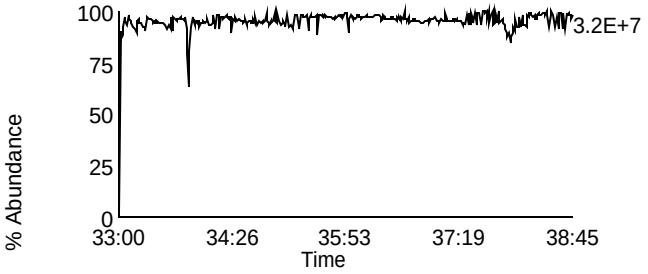
Data File: F140307A_08 G3 C10 - 403.8529
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G3 C11 - 445.7555
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G3 C3 - 380.976
SAMP 10258392019 - SMT WI

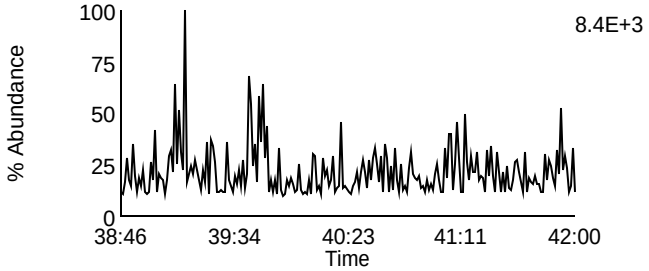


Homologue Group: Heptas

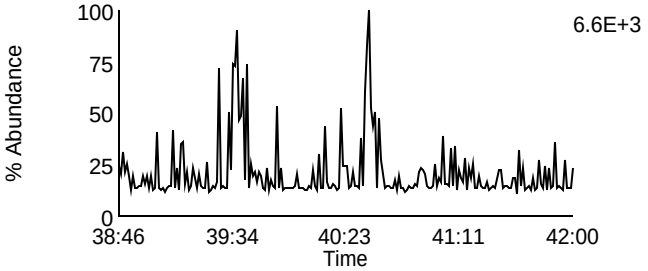
Data File Name: F140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392019 - SMT WI

Lab Sample ID: 10258392019
Client Sample ID: MAK105L
Instrument: 10MSHR05 (F)

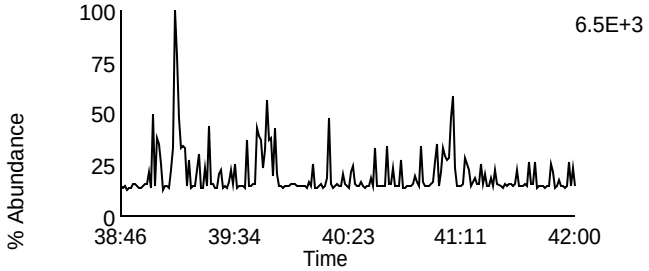
Data File: F140307A_08 G4 C3 - 407.7818
SAMP 10258392019 - SMT WI



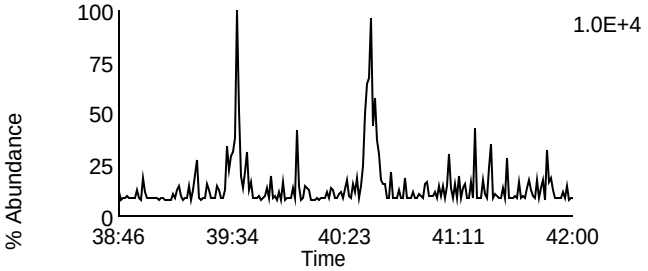
Data File: F140307A_08 G4 C8 - 423.7767
SAMP 10258392019 - SMT WI



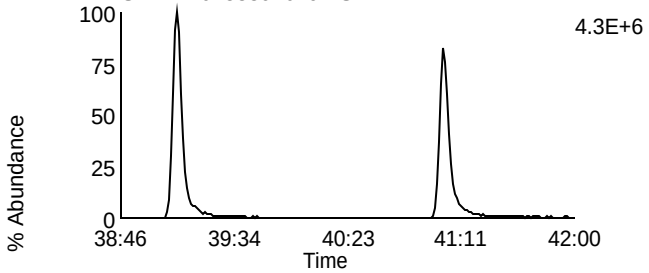
Data File: F140307A_08 G4 C4 - 409.7788
SAMP 10258392019 - SMT WI



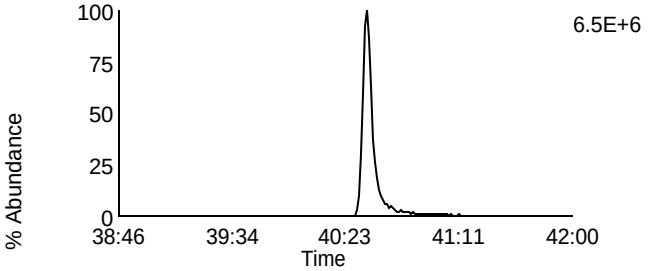
Data File: F140307A_08 G4 C9 - 425.7737
SAMP 10258392019 - SMT WI



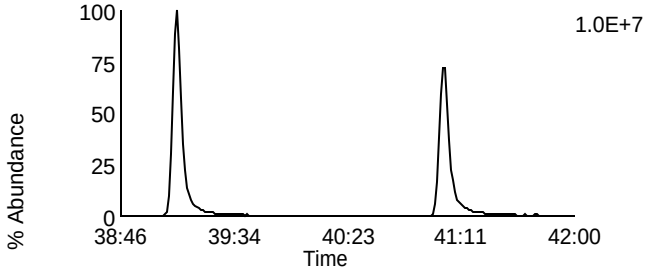
Data File: F140307A_08 G4 C6 - 417.825
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G4 C11 - 435.8169
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G4 C7 - 419.822
SAMP 10258392019 - SMT WI



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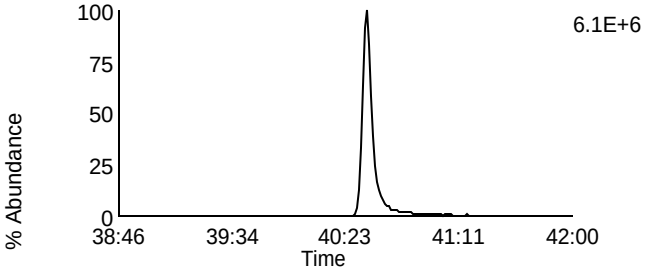
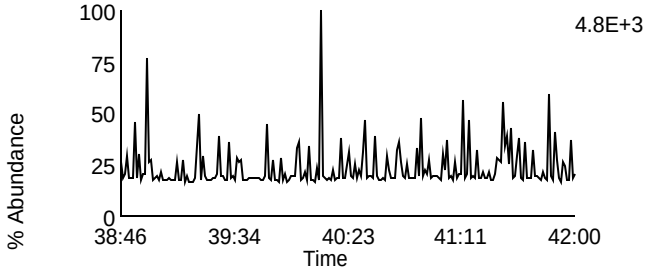
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G4 C13 - 479.7165
SAMP 10258392019 - SMT WI



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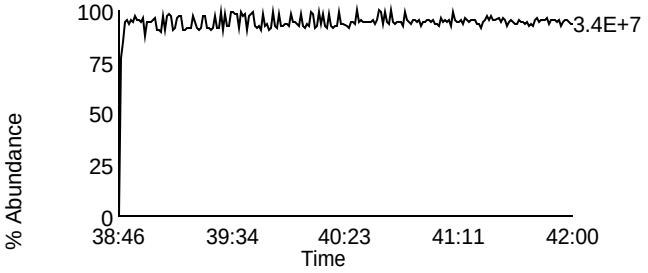
SAMP 10258392019 - SMT WI

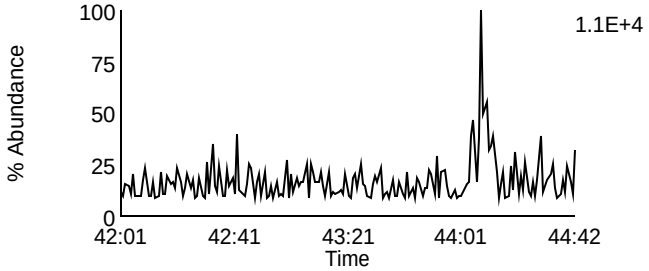


Homologue Group: Octas

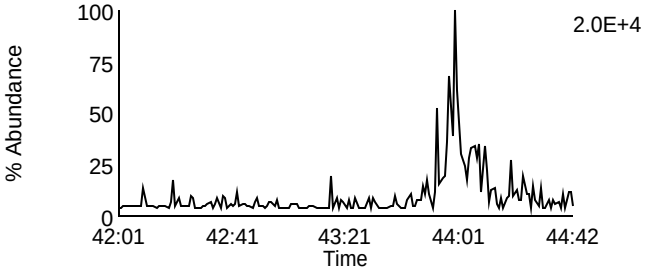
Data File Name: F140307A_08
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392019 - SMT WI

Lab Sample ID: 10258392019
Client Sample ID: MAK105L
Instrument: 10MSHR05 (F)

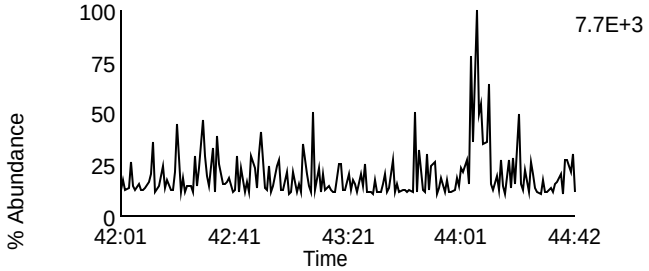
Data File: F140307A_08 G5 C4 - 441.7428
SAMP 10258392019 - SMT WI



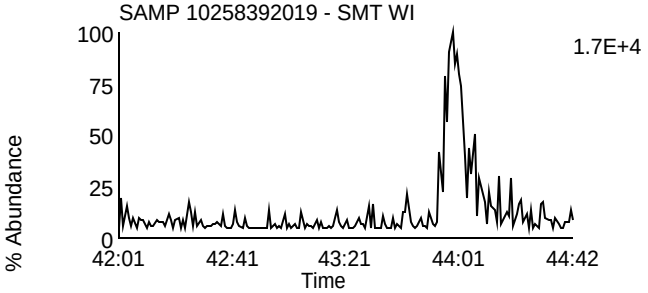
Data File: F140307A_08 G5 C8 - 457.7377
SAMP 10258392019 - SMT WI



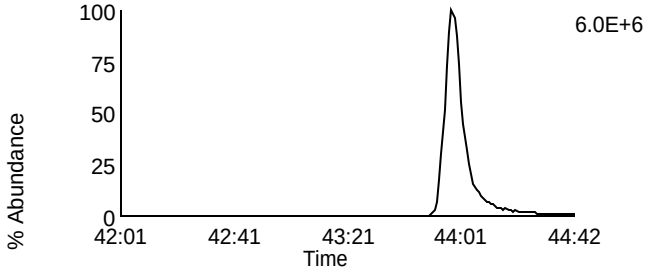
Data File: F140307A_08 G5 C5 - 443.7398
SAMP 10258392019 - SMT WI



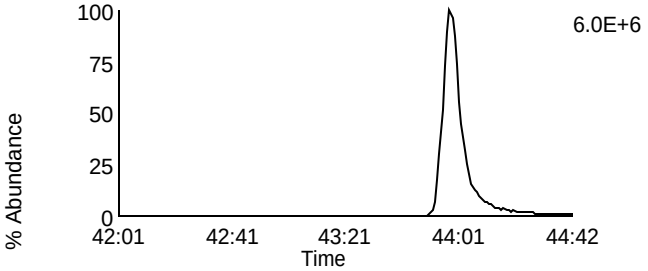
Data File: F140307A_08 G5 C9 - 459.7347
SAMP 10258392019 - SMT WI



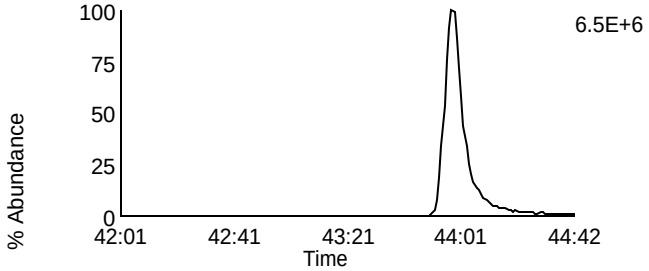
Data File: F140307A_08 G5 C11 - 469.7779
SAMP 10258392019 - SMT WI



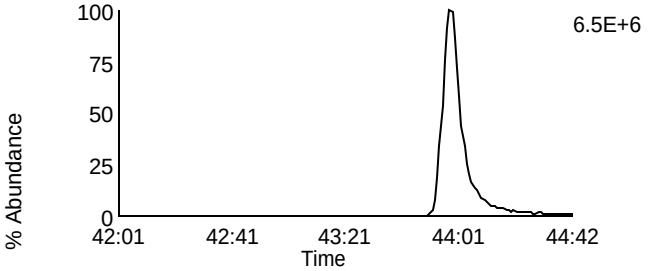
Data File: F140307A_08 G5 C11 - 469.7779
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G5 C12 - 471.7749
SAMP 10258392019 - SMT WI



Data File: F140307A_08 G5 C12 - 471.7749
SAMP 10258392019 - SMT WI



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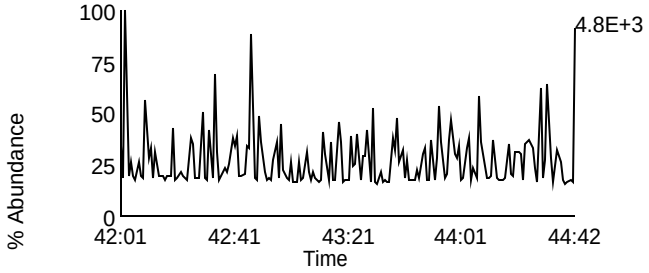
SAMP 10258392019 - SMT WI



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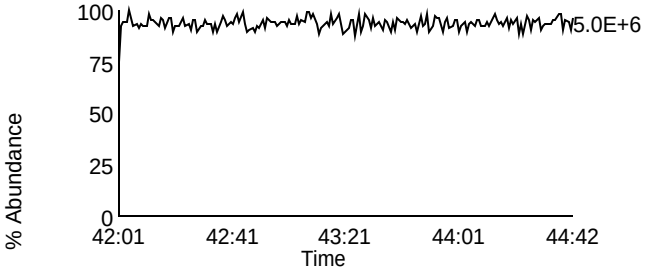
SAMP 10258392019 - SMT WI

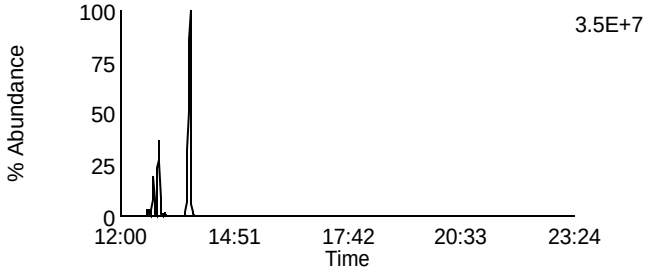


Homologue Group: Tetras

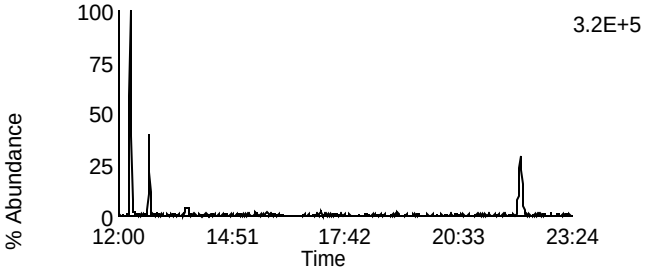
Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

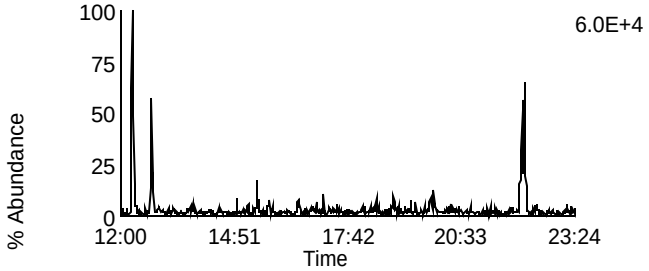
Data File: F140307A_09 G1 C1 - 303.9016
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C7 - 319.8965
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C2 - 305.8987
SAMP 10258392020 - SMT WI



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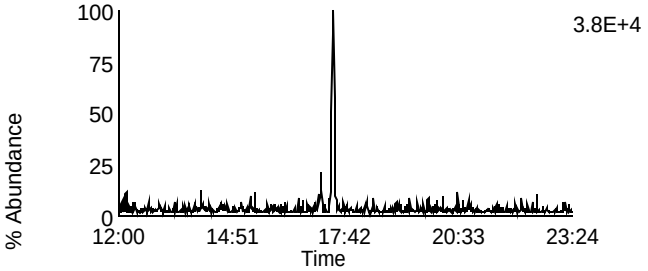
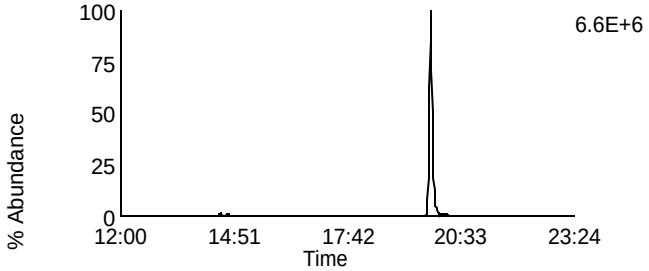
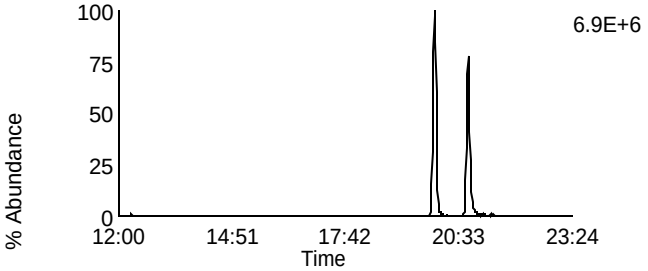
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C3 - 315.9418
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C10 - 331.9367
SAMP 10258392020 - SMT WI



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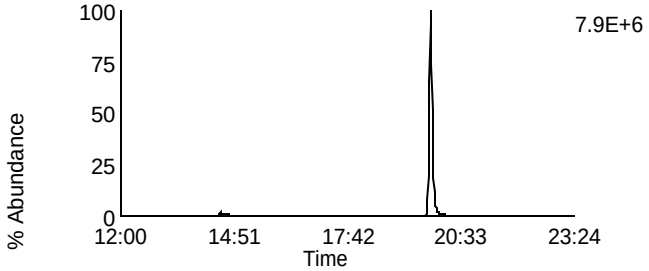
SAMP 10258392020 - SMT WI



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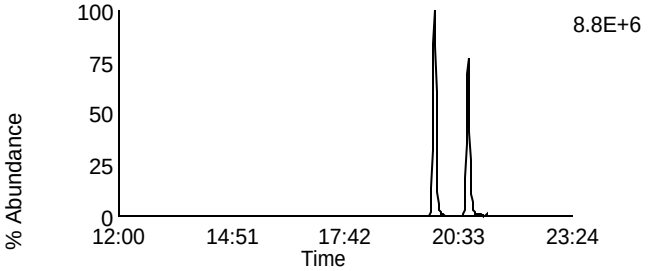
SAMP 10258392020 - SMT WI



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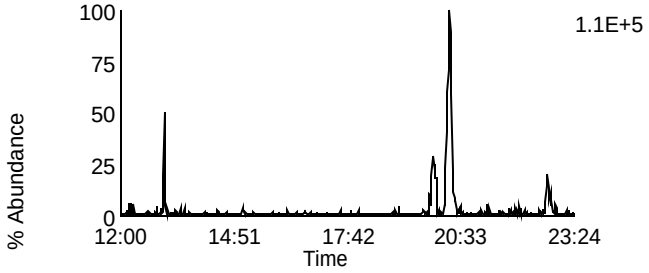
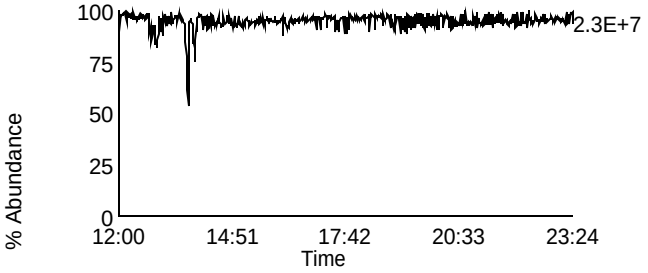
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C5 - 318.9792
SAMP 10258392020 - SMT WI

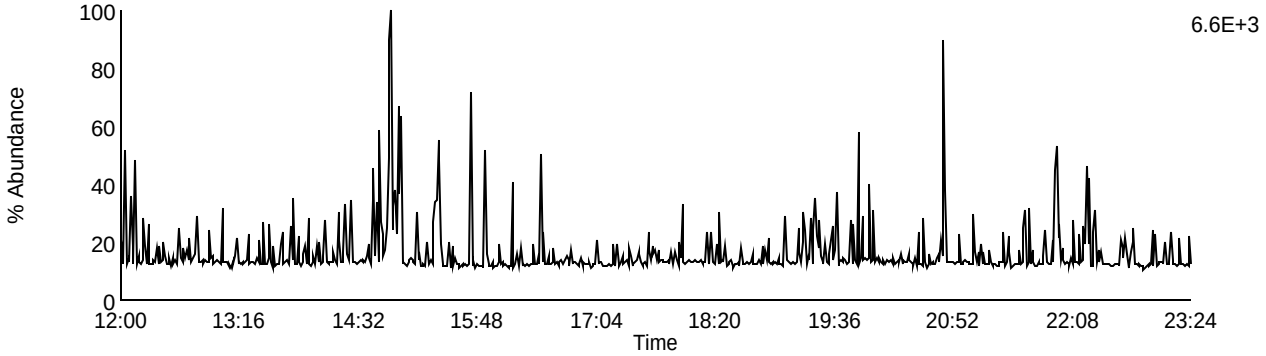


Homologue Group: Penta & Cleanup

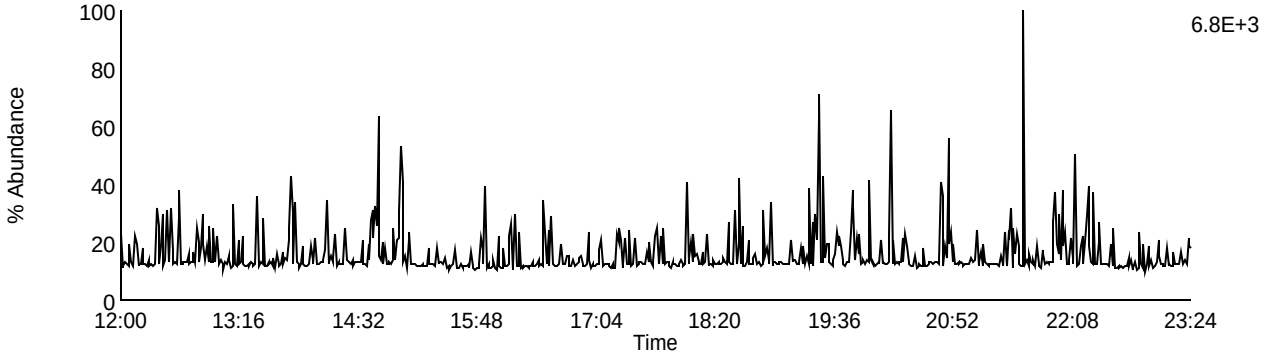
Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

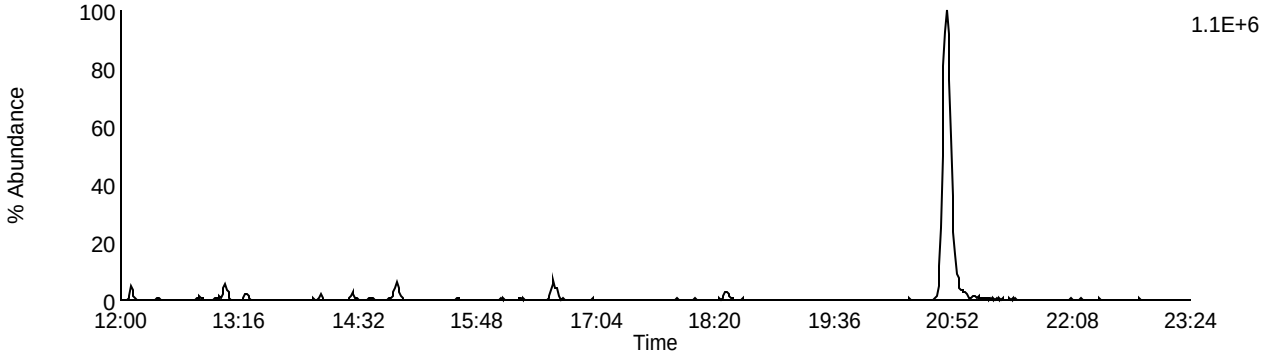
Data File: F140307A_09 G1 C12 - 339.8597
SAMP 10258392020 - SMT WI



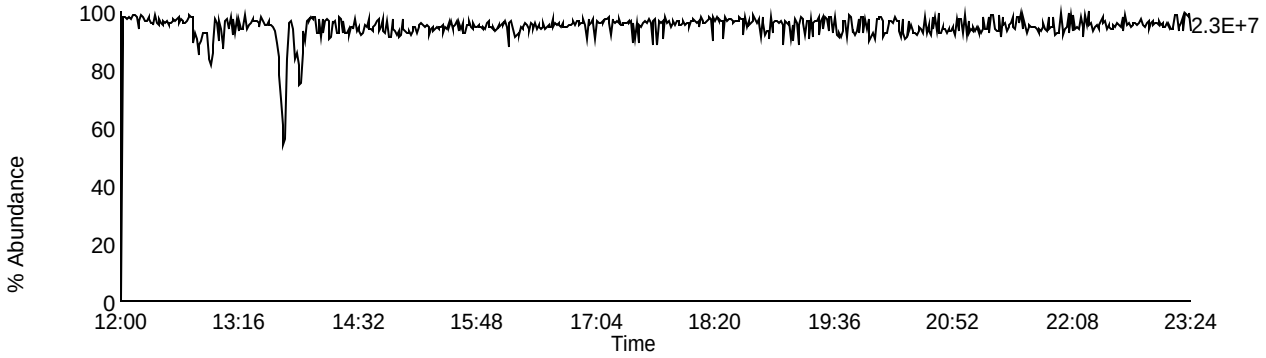
Data File: F140307A_09 G1 C13 - 341.8567
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C9 - 327.8847
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G1 C5 - 318.9792
SAMP 10258392020 - SMT WI

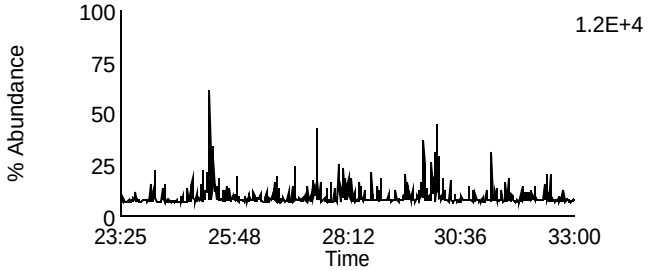


Homologue Group: Pentas

Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

Data File: F140307A_09 G2 C1 - 339.8597
SAMP 10258392020 - SMT WI



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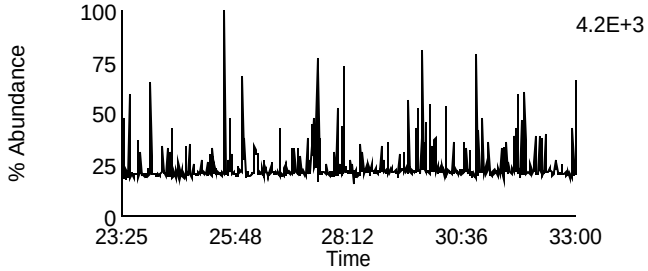
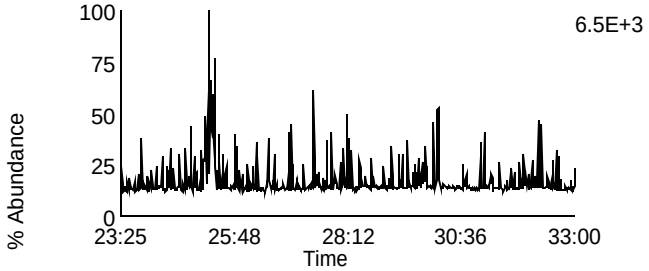
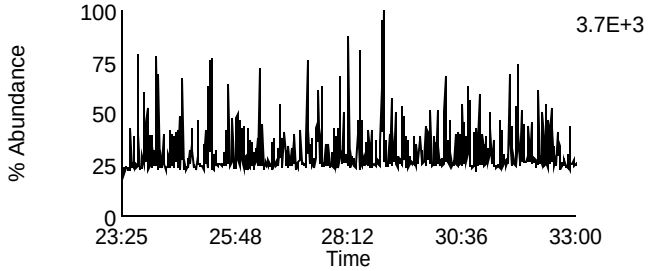
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G2 C2 - 341.8567
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G2 C8 - 355.8546
SAMP 10258392020 - SMT WI



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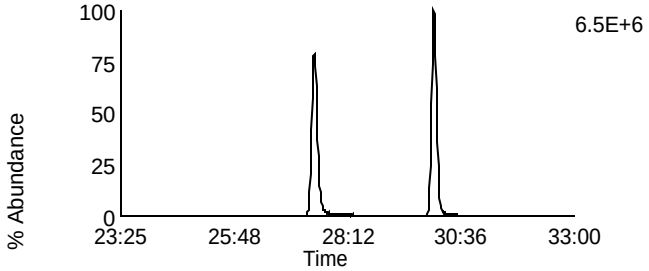
SAMP 10258392020 - SMT WI



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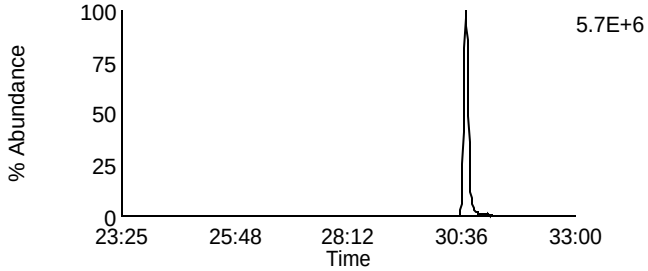
SAMP 10258392020 - SMT WI



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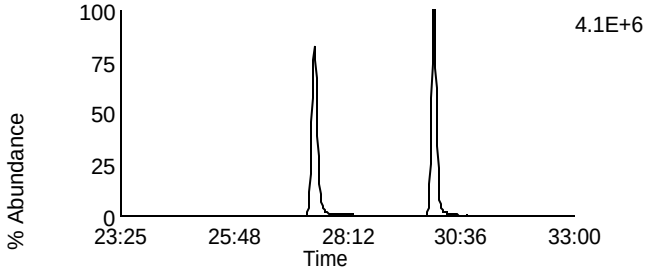
SAMP 10258392020 - SMT WI



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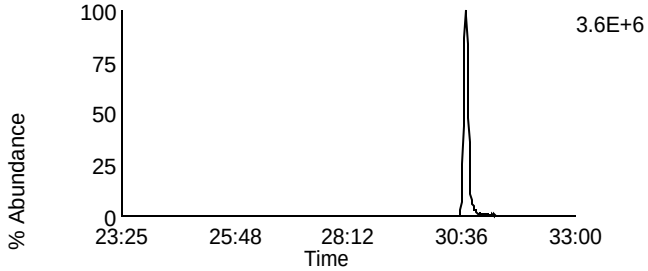
SAMP 10258392020 - SMT WI



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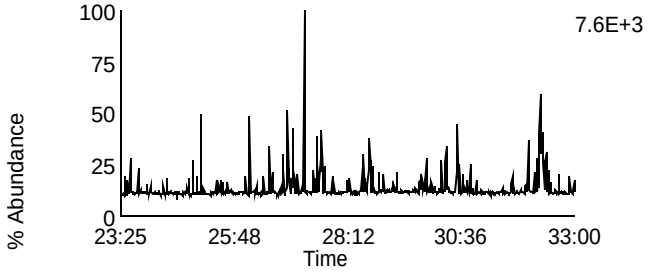
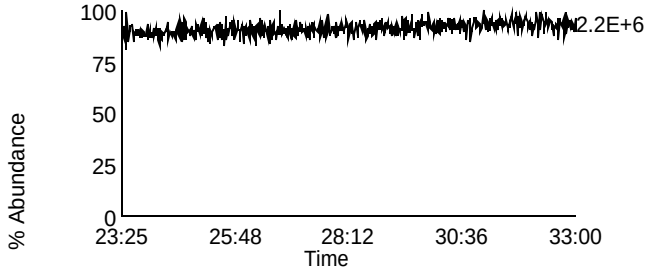
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G2 C6 - 354.9792
SAMP 10258392020 - SMT WI

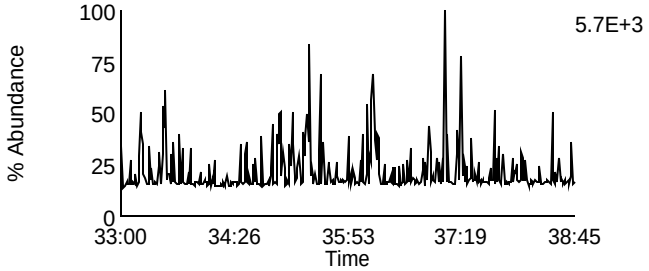


Homologue Group: Hexas

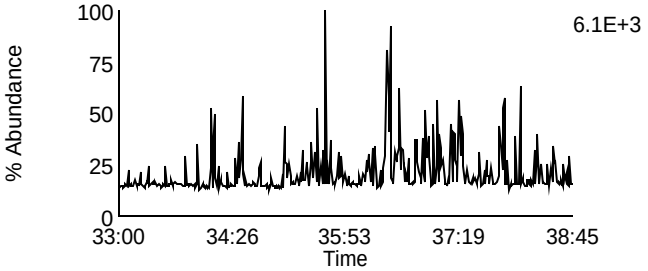
Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

Data File: F140307A_09 G3 C1 - 373.8207
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G3 C7 - 389.8156
SAMP 10258392020 - SMT WI



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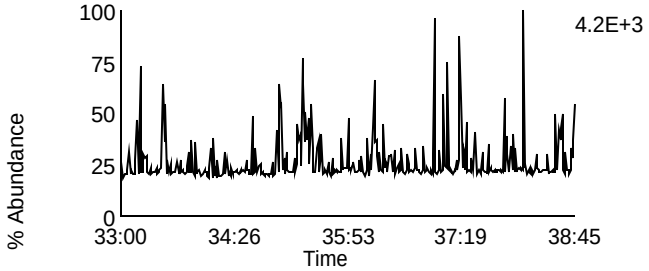
SAMP 10258392020 - SMT WI



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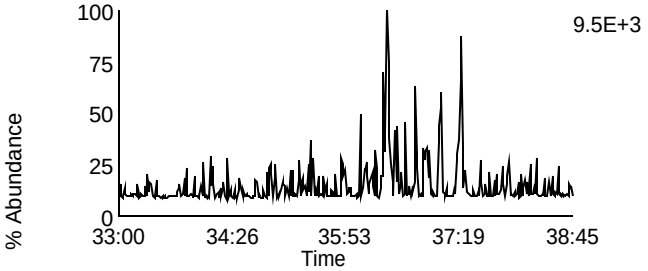
SAMP 10258392020 - SMT WI



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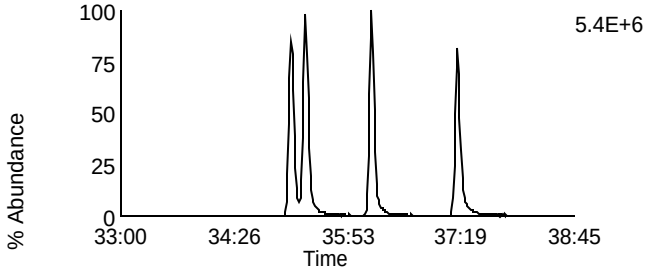
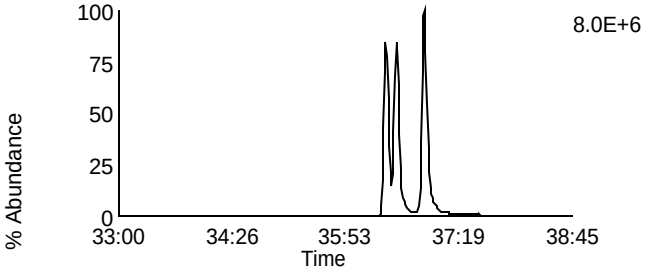
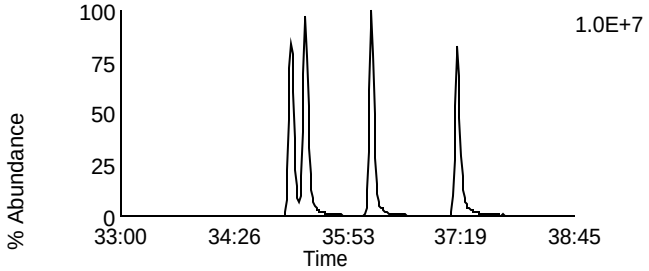
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G3 C9 - 401.8559
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G3 C6 - 385.861
SAMP 10258392020 - SMT WI



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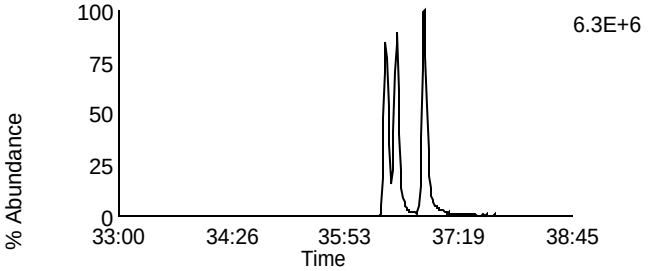
SAMP 10258392020 - SMT WI



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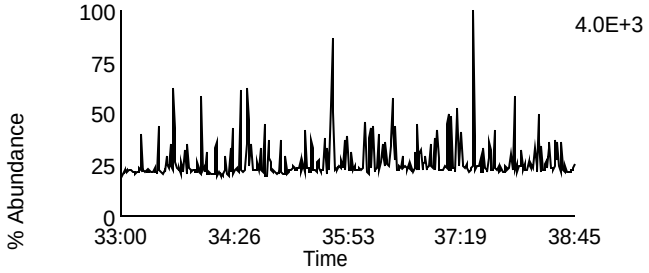
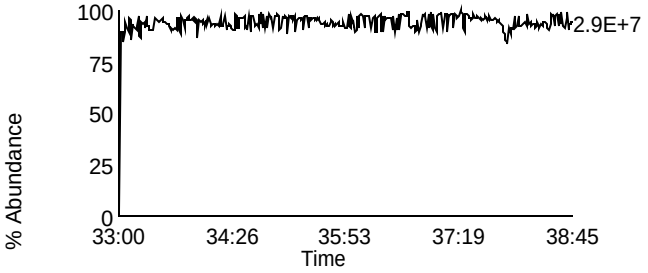
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G3 C3 - 380.976
SAMP 10258392020 - SMT WI

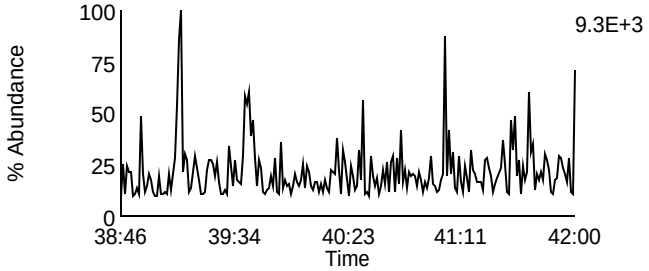


Homologue Group: Heptas

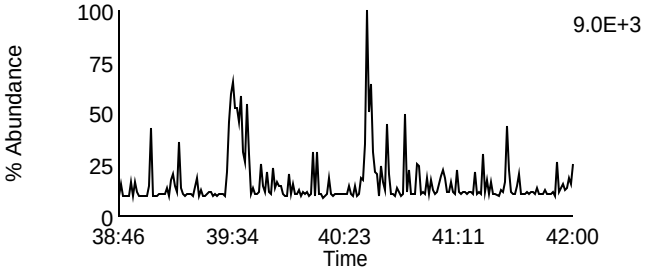
Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

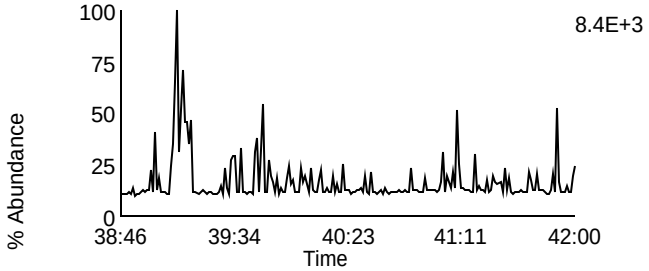
Data File: F140307A_09 G4 C3 - 407.7818
SAMP 10258392020 - SMT WI



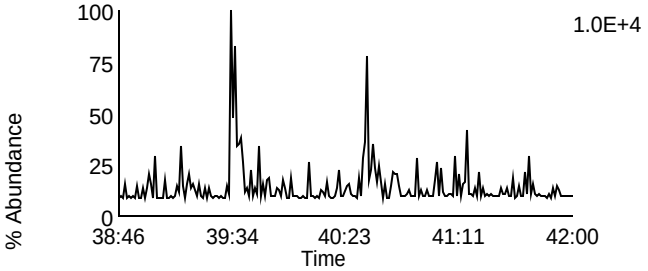
Data File: F140307A_09 G4 C8 - 423.7767
SAMP 10258392020 - SMT WI



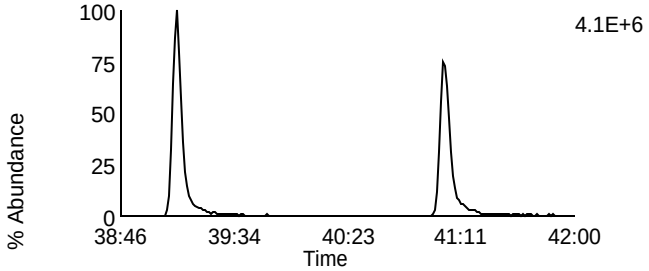
Data File: F140307A_09 G4 C4 - 409.7788
SAMP 10258392020 - SMT WI



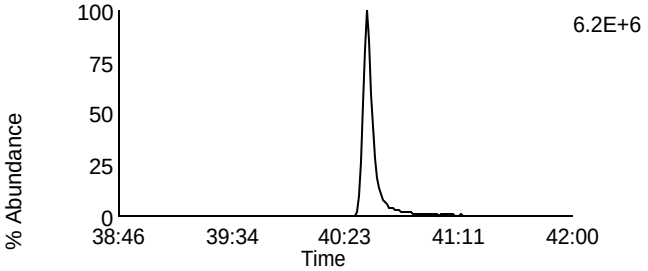
Data File: F140307A_09 G4 C9 - 425.7737
SAMP 10258392020 - SMT WI



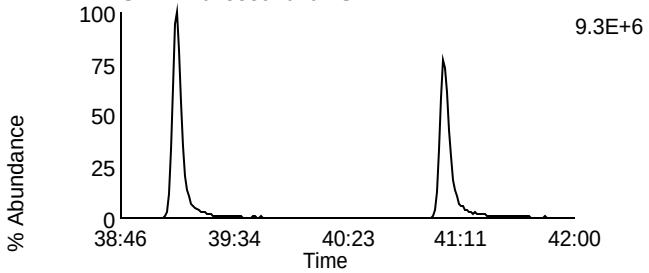
Data File: F140307A_09 G4 C6 - 417.825
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G4 C11 - 435.8169
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G4 C7 - 419.822
SAMP 10258392020 - SMT WI



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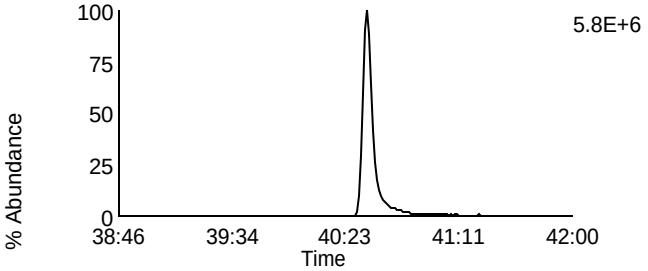
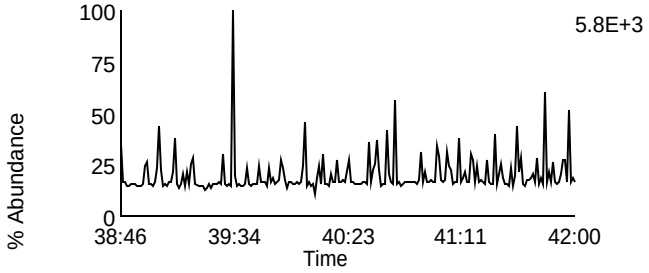
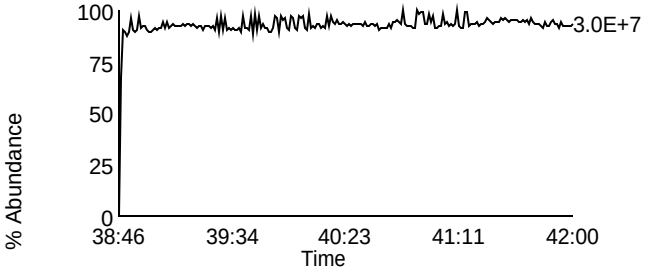
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G4 C13 - 479.7165
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G4 C1 - 380.976
SAMP 10258392020 - SMT WI

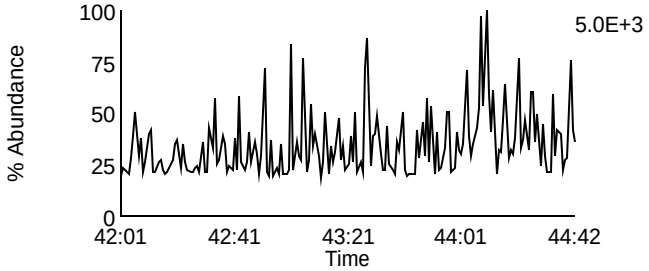


Homologue Group: Octas

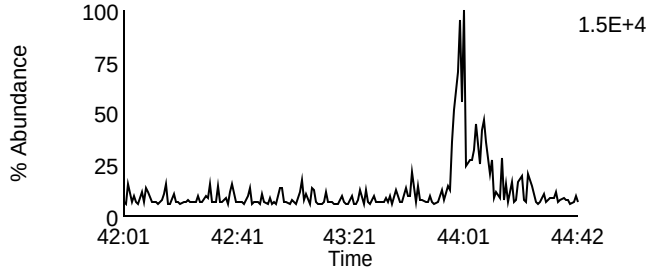
Data File Name: F140307A_09
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392020 - SMT WI

Lab Sample ID: 10258392020
Client Sample ID: MAK106L
Instrument: 10MSHR05 (F)

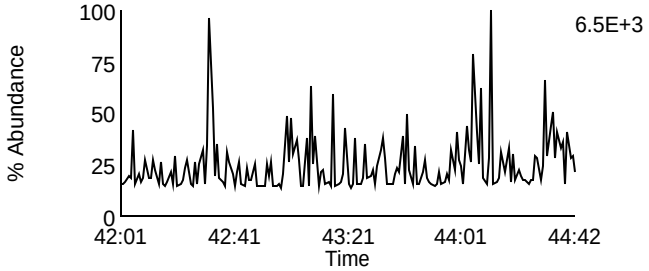
Data File: F140307A_09 G5 C4 - 441.7428
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G5 C8 - 457.7377
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G5 C5 - 443.7398
SAMP 10258392020 - SMT WI



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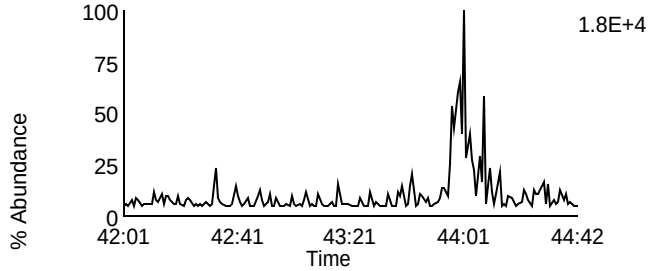
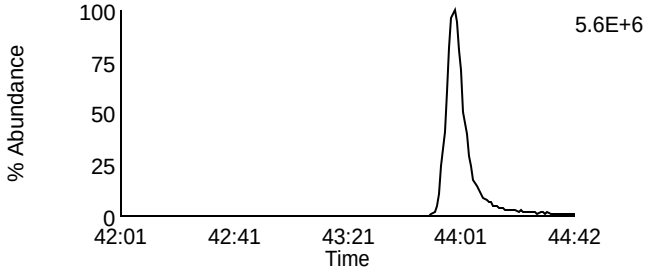
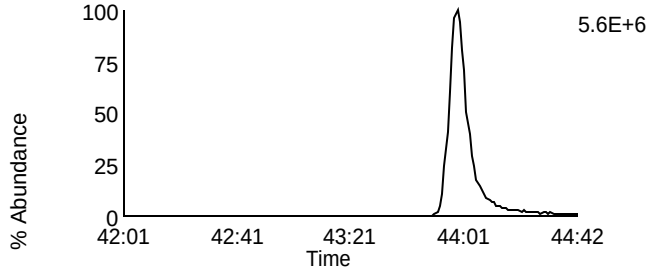
SAMP 10258392020 - SMT WI



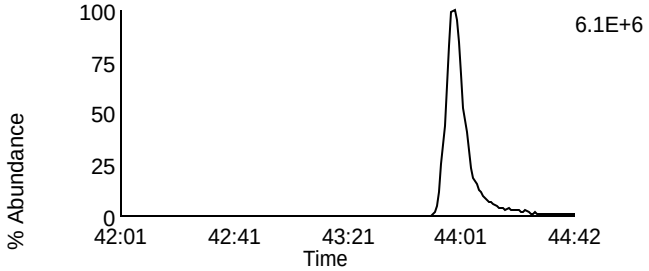
Data File: F140307A_09 G5 C11 - 469.7779
SAMP 10258392020 - SMT WI



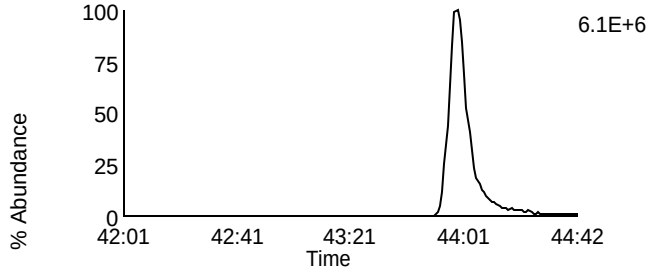
Data File: F140307A_09 G5 C11 - 469.7779
SAMP 10258392020 - SMT WI



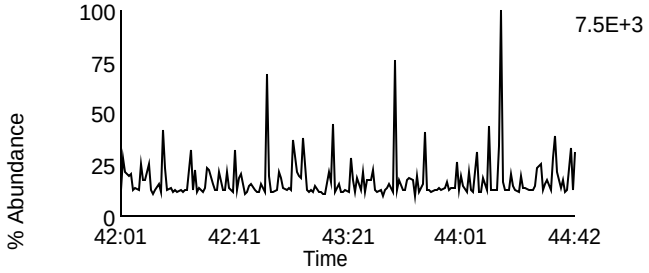
Data File: F140307A_09 G5 C12 - 471.7749
SAMP 10258392020 - SMT WI



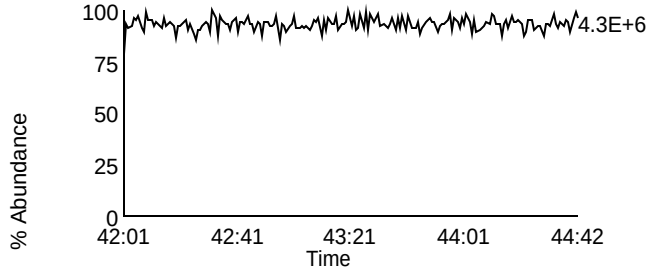
Data File: F140307A_09 G5 C12 - 471.7749
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G5 C13 - 513.6775
SAMP 10258392020 - SMT WI



Data File: F140307A_09 G5 C2 - 430.9728
SAMP 10258392020 - SMT WI

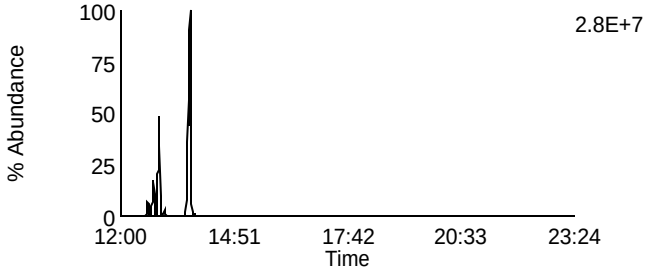


Homologue Group: Tetras

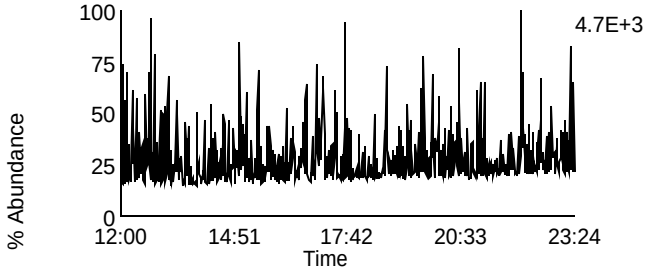
Data File Name: F140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392021 - SMT WI

Lab Sample ID: 10258392021
Client Sample ID: MAK108,109,110,113L
Instrument: 10MSHR05 (F)

Data File: F140307A_10 G1 C1 - 303.9016
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G1 C7 - 319.8965
SAMP 10258392021 - SMT WI



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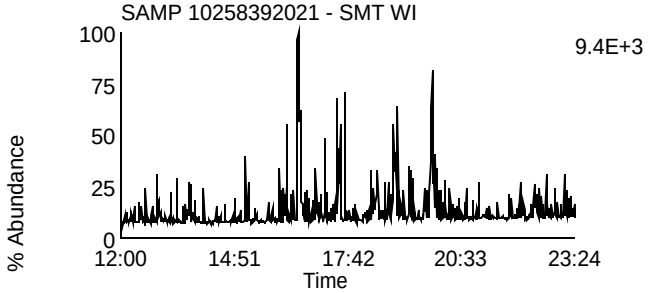
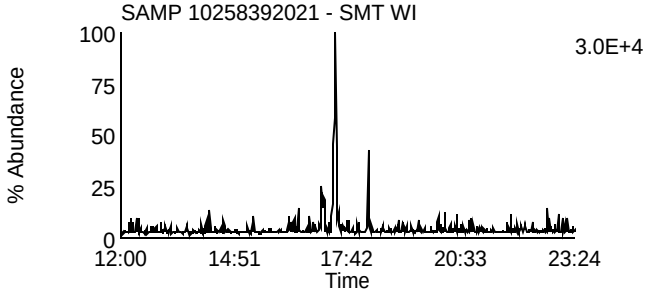
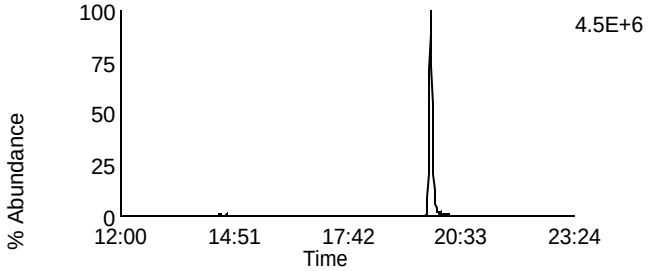
SAMP 10258392021 - SMT WI



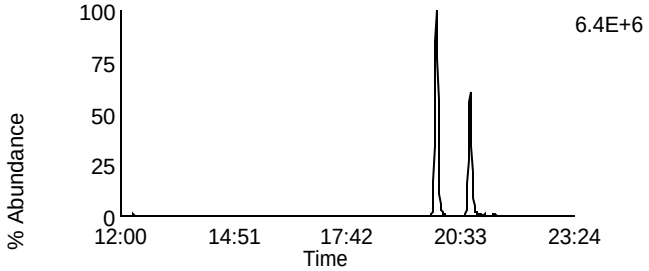
Data File: F140307A_10 G1 C8 - 321.8936
SAMP 10258392021 - SMT WI



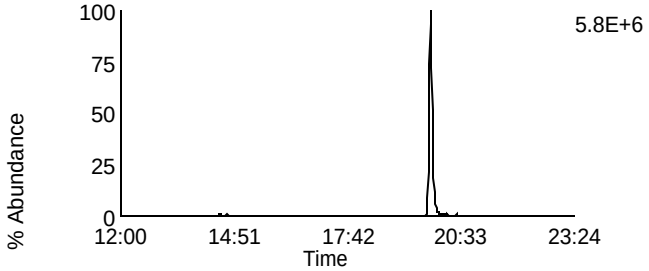
Data File: F140307A_10 G1 C3 - 315.9418
SAMP 10258392021 - SMT WI



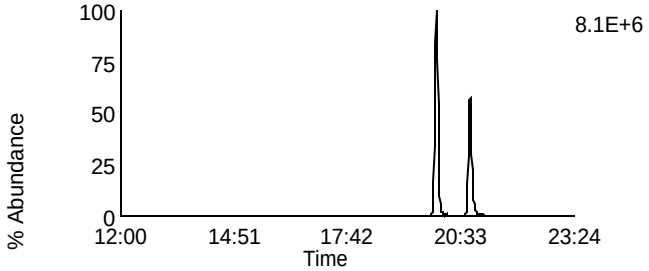
Data File: F140307A_10 G1 C10 - 331.9367
SAMP 10258392021 - SMT WI



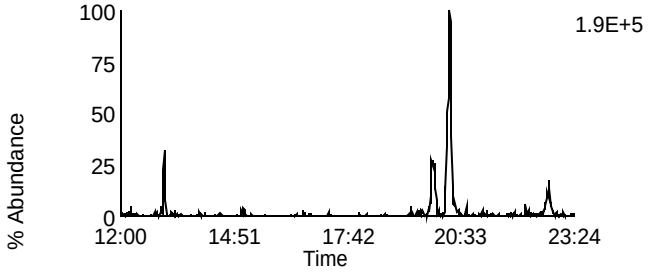
Data File: F140307A_10 G1 C4 - 317.9389
SAMP 10258392021 - SMT WI



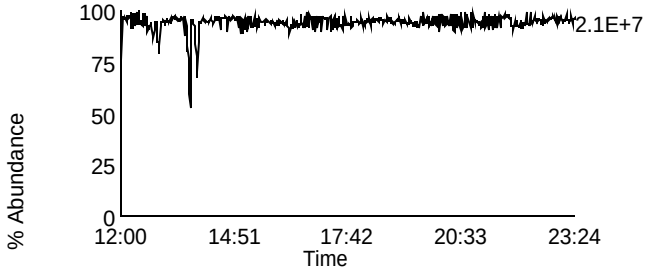
Data File: F140307A_10 G1 C11 - 333.9338
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G1 C14 - 375.8364
SAMP 10258392021 - SMT WI



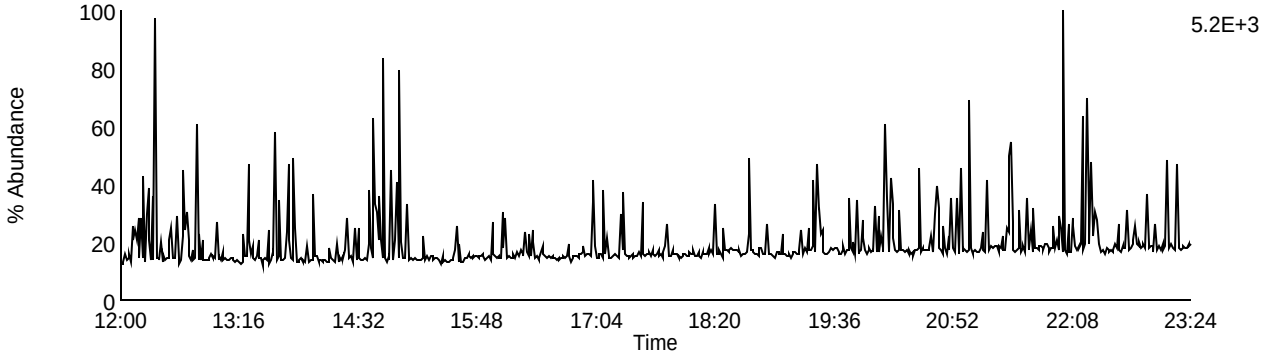
Data File: F140307A_10 G1 C5 - 318.9792
SAMP 10258392021 - SMT WI



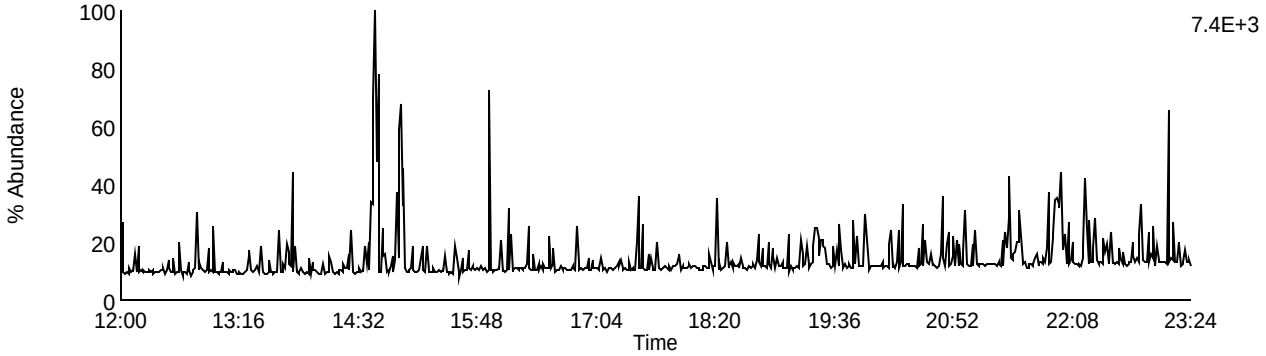
Homologue Group: Penta & Cleanup

Data File Name: F140307A_10	Lab Sample ID: 10258392021
Date Acquired: 3/7/2014	Client Sample ID: MAK108,109,110,113L
Sample Description: SAMP 10258392021 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_10 G1 C12 - 339.8597
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G1 C13 - 341.8567
SAMP 10258392021 - SMT WI



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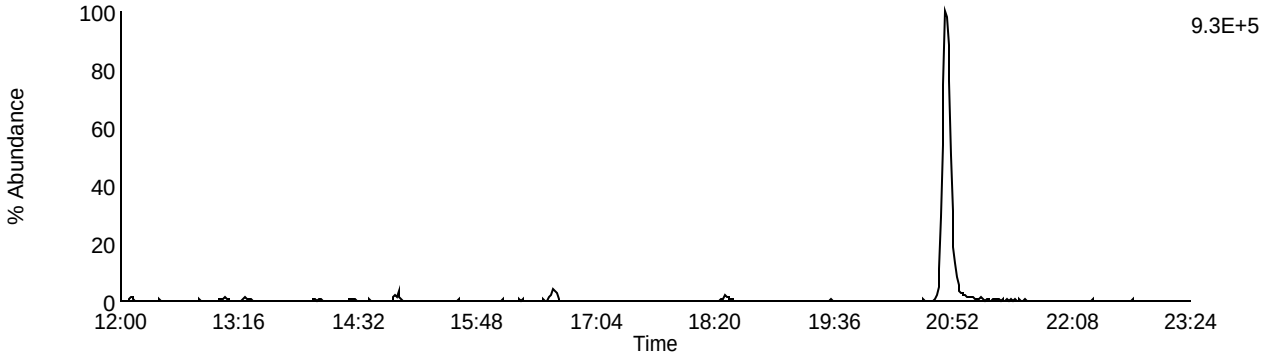
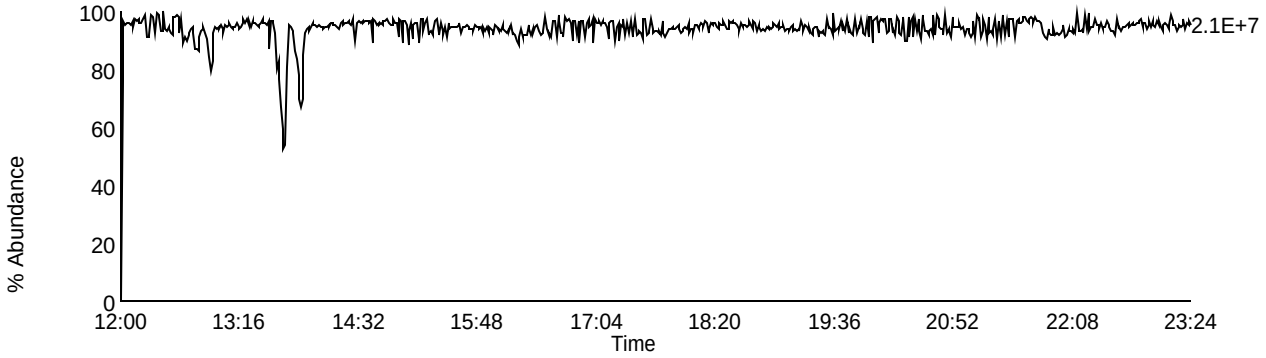
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G1 C5 - 318.9792
SAMP 10258392021 - SMT WI

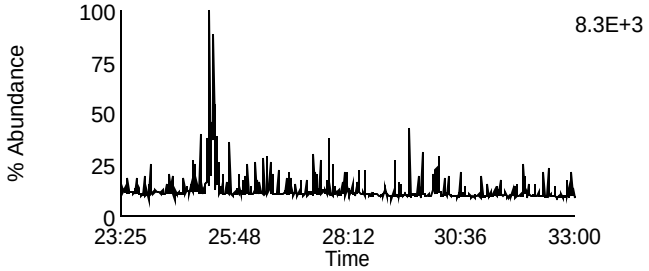


Homologue Group: Pentas

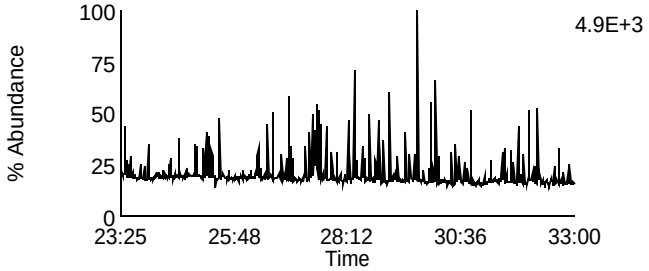
Data File Name: F140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392021 - SMT WI

Lab Sample ID: 10258392021
Client Sample ID: MAK108,109,110,113L
Instrument: 10MSHR05 (F)

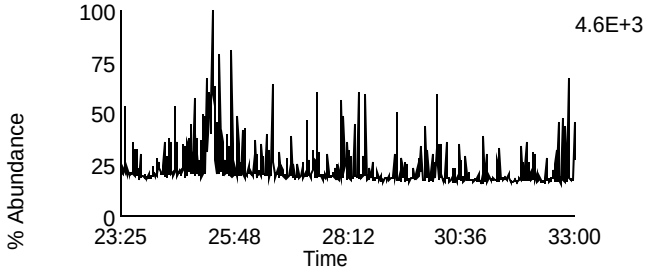
Data File: F140307A_10 G2 C1 - 339.8597
SAMP 10258392021 - SMT WI



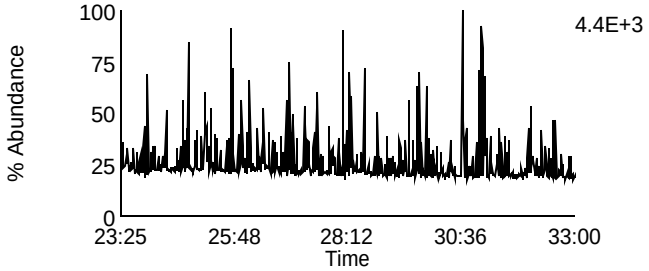
Data File: F140307A_10 G2 C4 - 353.8576
SAMP 10258392021 - SMT WI



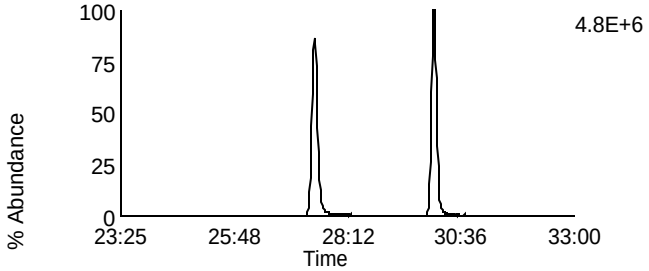
Data File: F140307A_10 G2 C2 - 341.8567
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G2 C8 - 355.8546
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G2 C3 - 351.8999
SAMP 10258392021 - SMT WI



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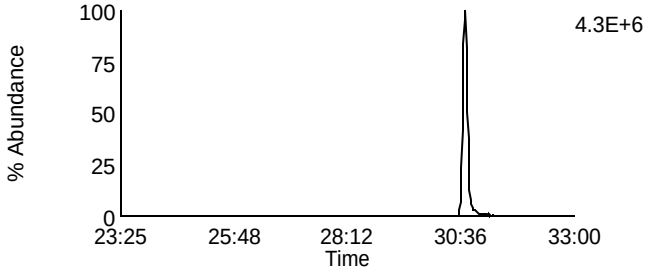
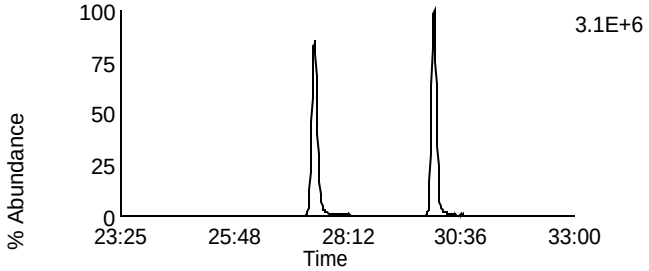
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G2 C5 - 353.8969
SAMP 10258392021 - SMT WI



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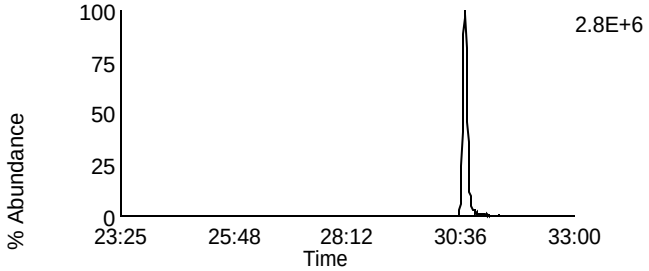
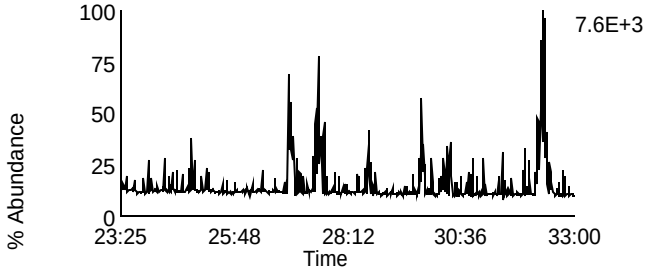
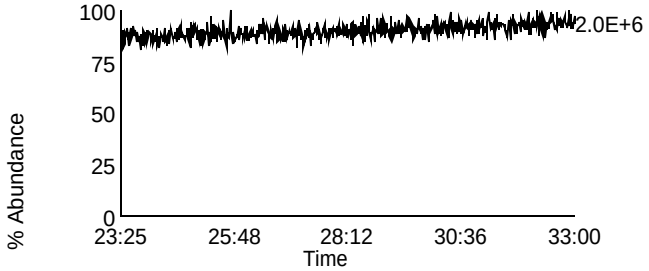
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G2 C12 - 409.7974
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G2 C6 - 354.9792
SAMP 10258392021 - SMT WI

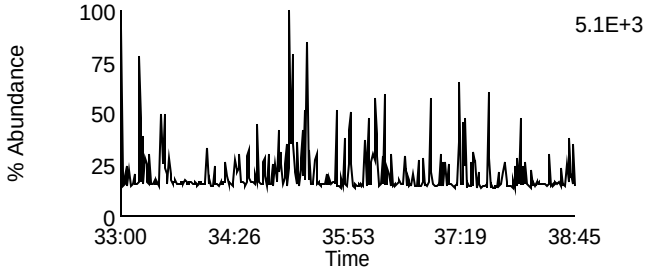


Homologue Group: Hexas

Data File Name: F140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392021 - SMT WI

Lab Sample ID: 10258392021
Client Sample ID: MAK108,109,110,113L
Instrument: 10MSHR05 (F)

Data File: F140307A_10 G3 C1 - 373.8207
SAMP 10258392021 - SMT WI



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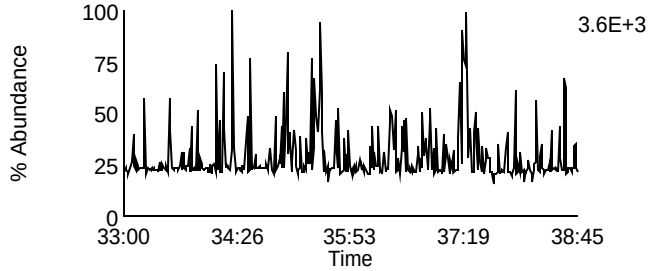
SAMP 10258392021 - SMT WI



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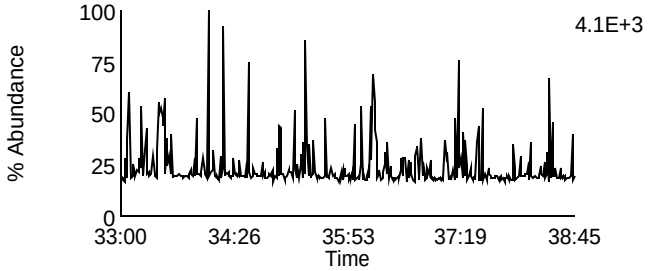
SAMP 10258392021 - SMT WI



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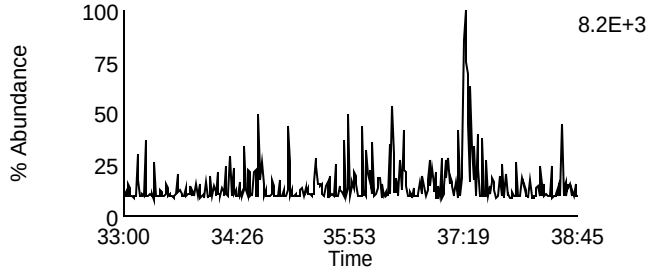
SAMP 10258392021 - SMT WI



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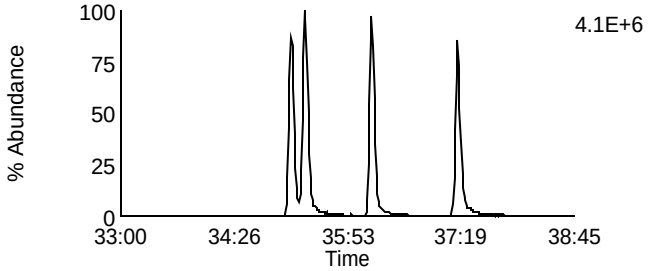
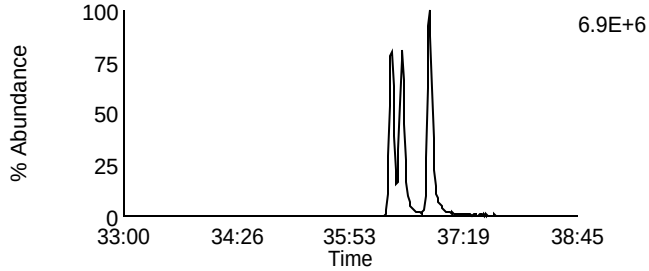
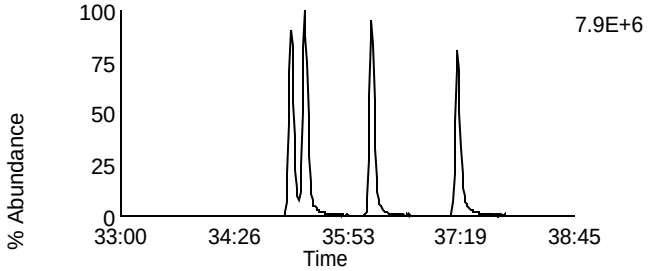
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G3 C9 - 401.8559
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G3 C6 - 385.861
SAMP 10258392021 - SMT WI



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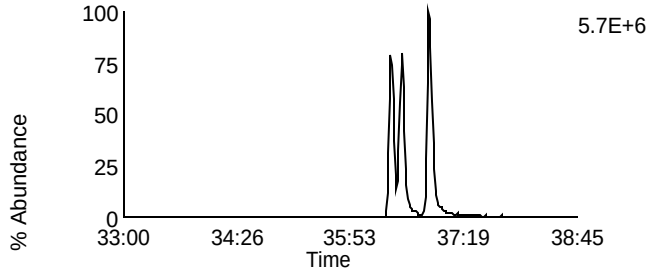
SAMP 10258392021 - SMT WI



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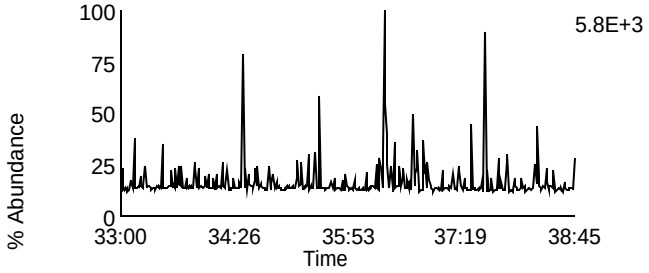
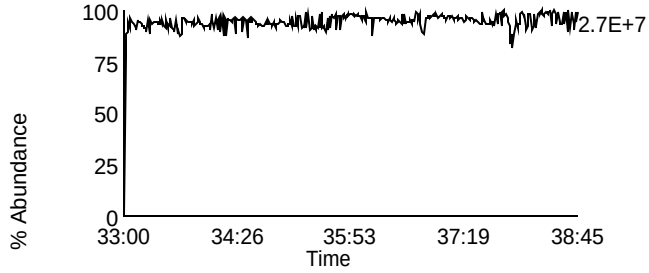
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G3 C3 - 380.976
SAMP 10258392021 - SMT WI

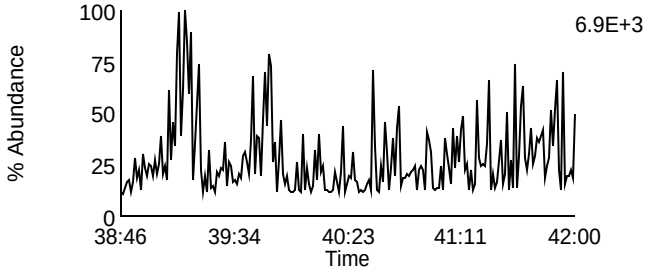


Homologue Group: Heptas

Data File Name: F140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392021 - SMT WI

Lab Sample ID: 10258392021
Client Sample ID: MAK108,109,110,113L
Instrument: 10MSHR05 (F)

Data File: F140307A_10 G4 C3 - 407.7818
SAMP 10258392021 - SMT WI



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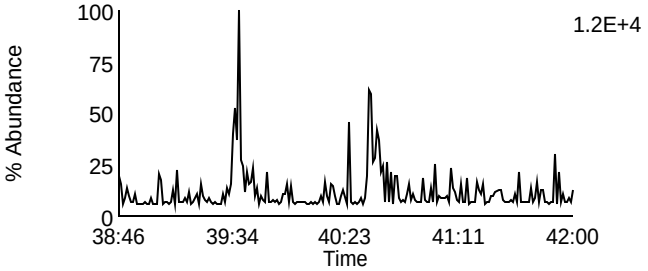
SAMP 10258392021 - SMT WI



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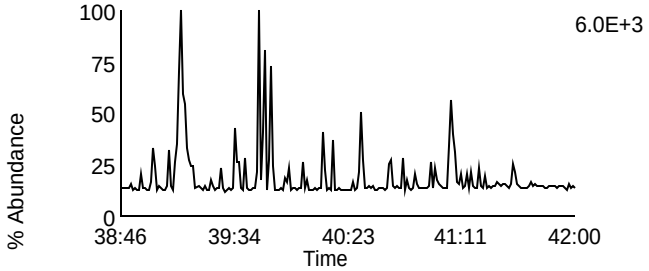
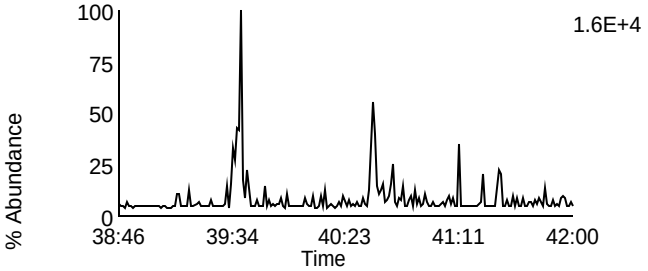
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G4 C9 - 425.7737
SAMP 10258392021 - SMT WI



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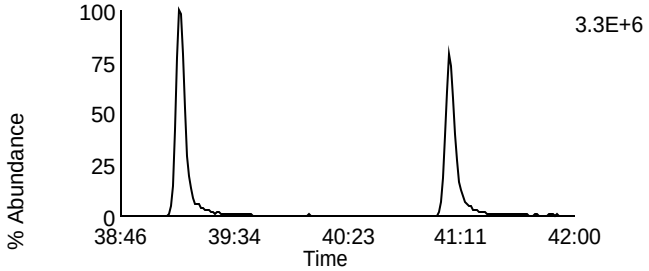
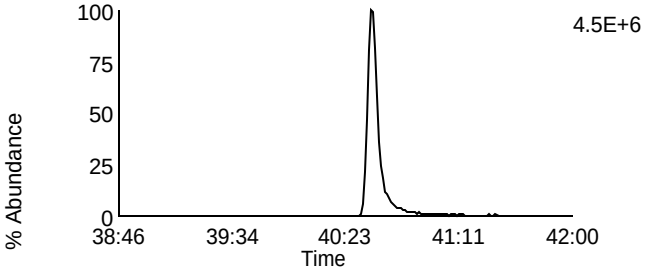
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G4 C11 - 435.8169
SAMP 10258392021 - SMT WI



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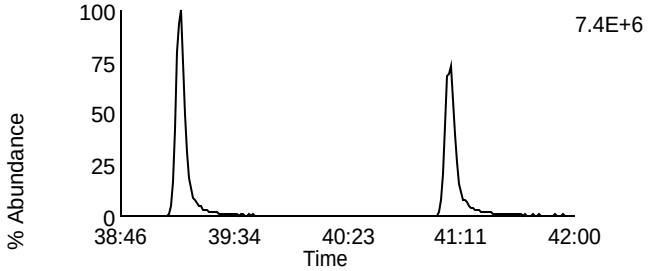
SAMP 10258392021 - SMT WI



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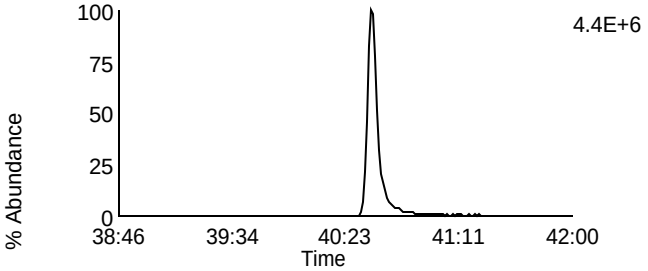
SAMP 10258392021 - SMT WI



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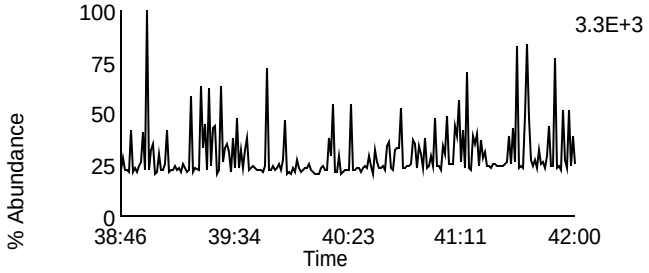
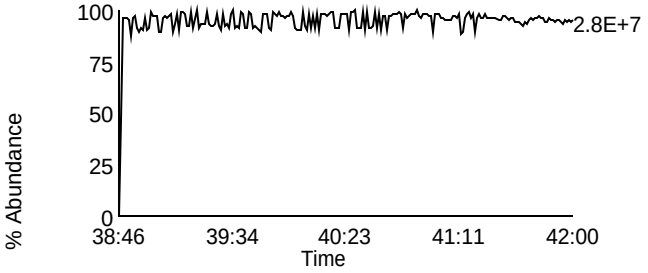
SAMP 10258392021 - SMT WI



Data File: F140307A_10 G4 C1 - 380.976
SAMP 10258392021 - SMT WI

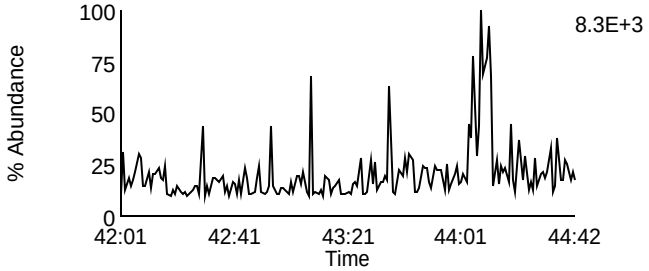


Homologue Group: Octas

Data File Name: F140307A_10
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392021 - SMT WI

Lab Sample ID: 10258392021
Client Sample ID: MAK108,109,110,113L
Instrument: 10MSHR05 (F)

Data File: F140307A_10 G5 C4 - 441.7428
SAMP 10258392021 - SMT WI



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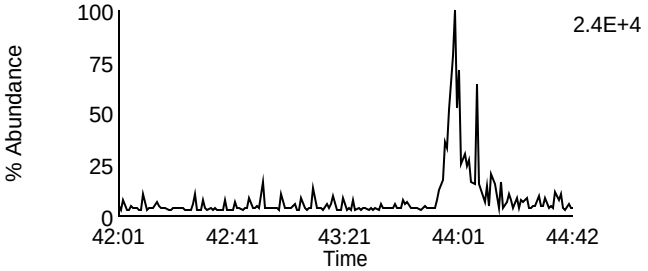
SAMP 10258392021 - SMT WI



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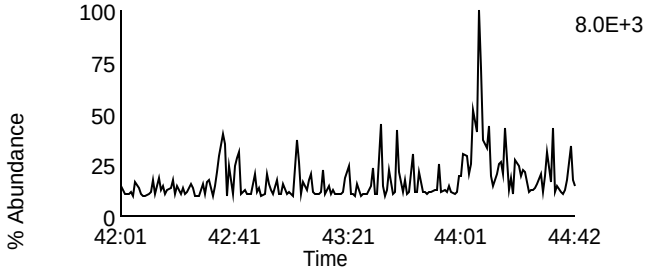
SAMP 10258392021 - SMT WI



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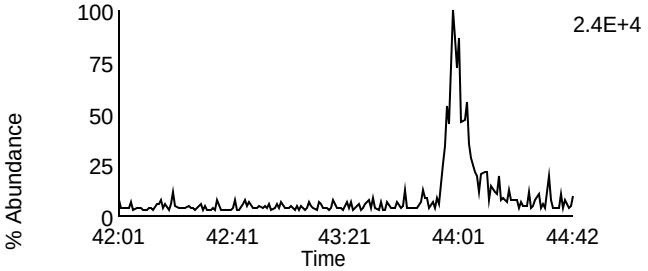
SAMP 10258392021 - SMT WI



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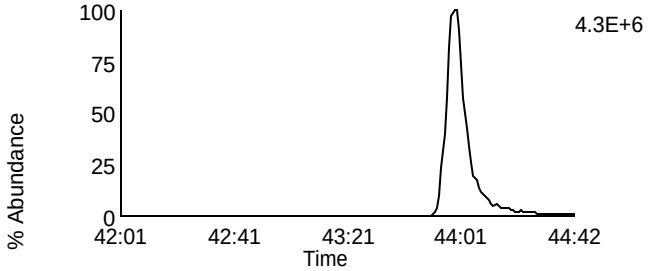
SAMP 10258392021 - SMT WI



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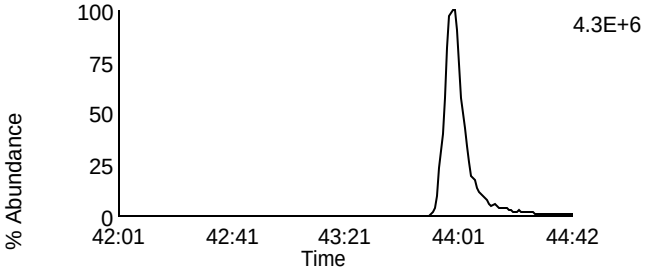
SAMP 10258392021 - SMT WI



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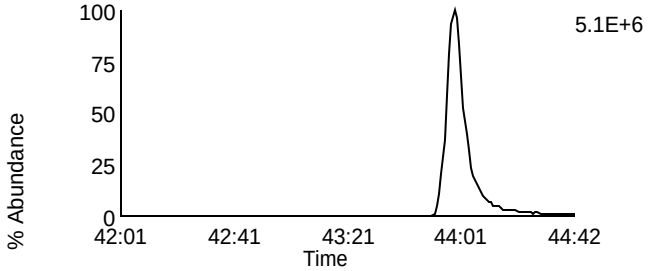
SAMP 10258392021 - SMT WI



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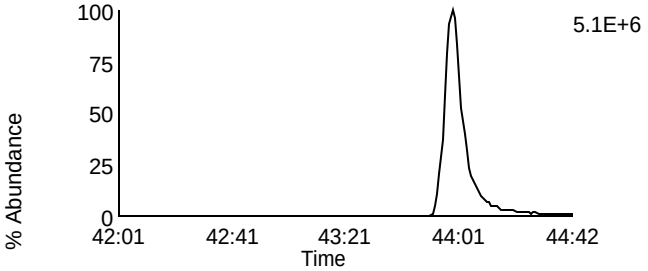
SAMP 10258392021 - SMT WI



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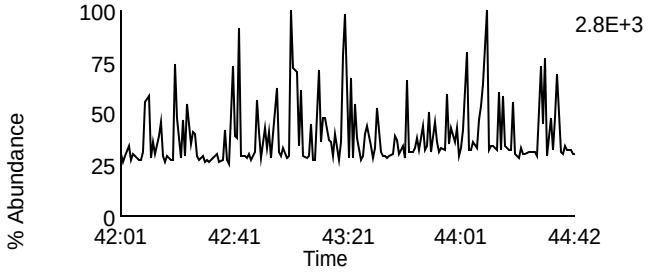
SAMP 10258392021 - SMT WI



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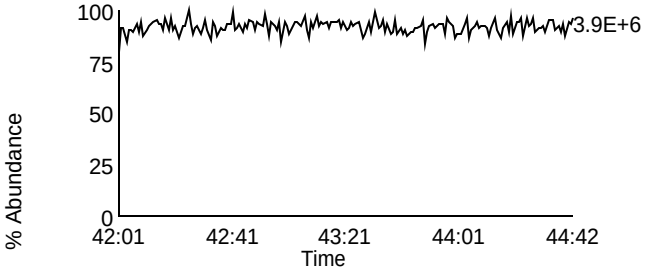
SAMP 10258392021 - SMT WI

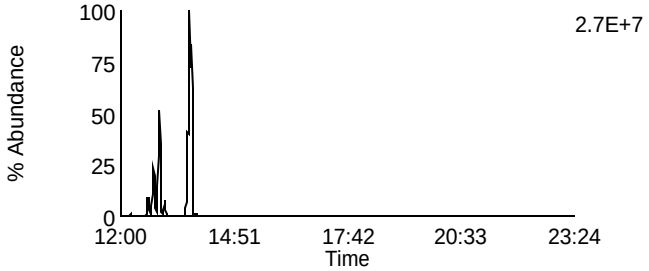


Homologue Group: Tetras

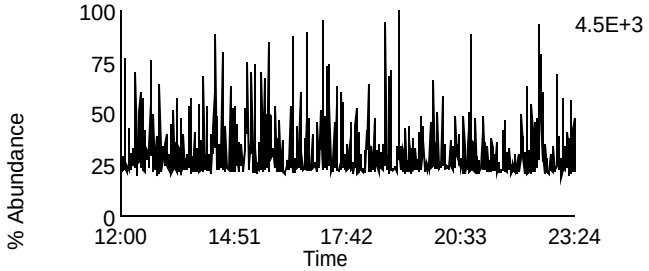
Data File Name: F140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392022 - SMT WI

Lab Sample ID: 10258392022
Client Sample ID: MAK111L
Instrument: 10MSHR05 (F)

Data File: F140307A_11 G1 C1 - 303.9016
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G1 C7 - 319.8965
SAMP 10258392022 - SMT WI



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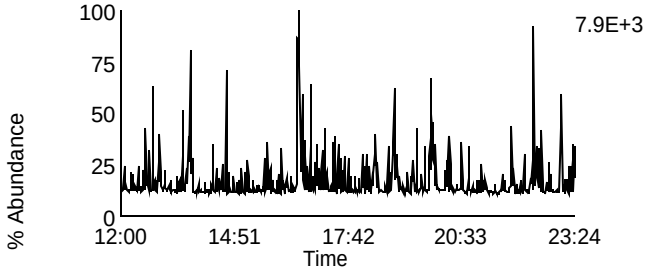
SAMP 10258392022 - SMT WI



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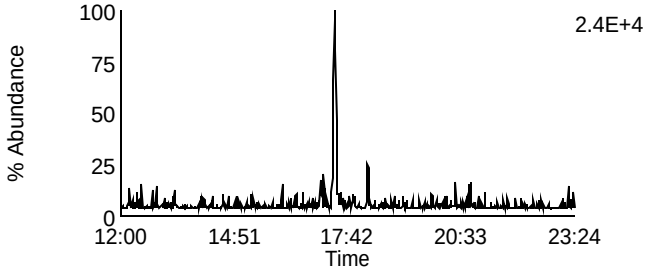
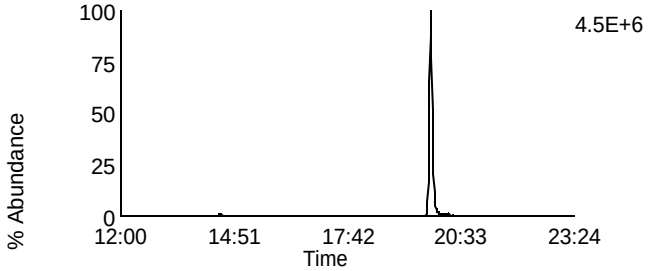
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G1 C3 - 315.9418
SAMP 10258392022 - SMT WI



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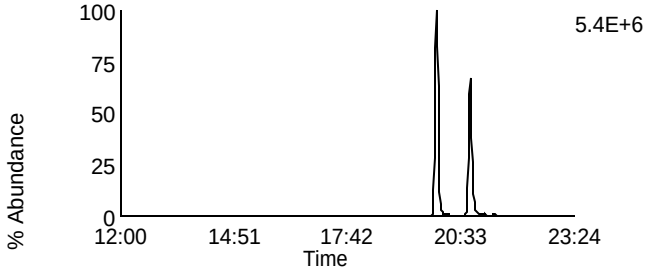
SAMP 10258392022 - SMT WI



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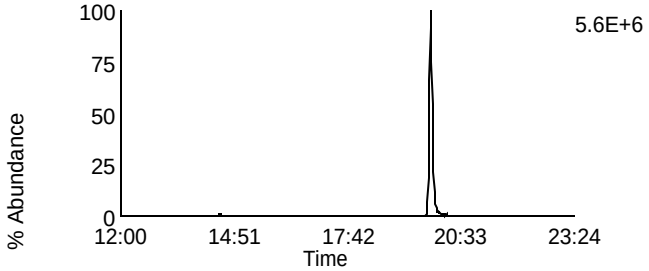
SAMP 10258392022 - SMT WI



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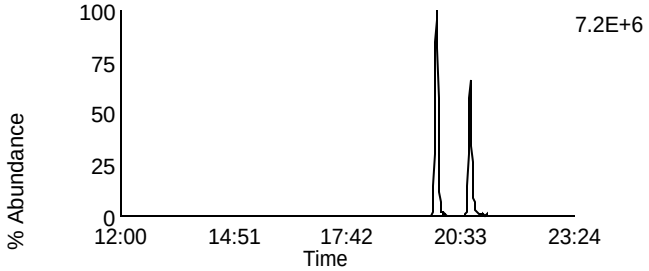
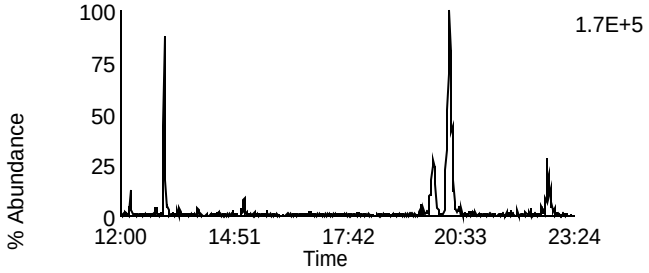
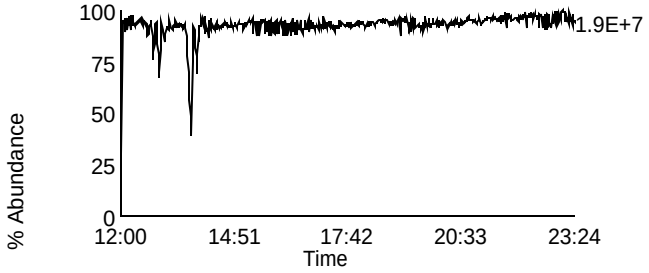
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G1 C14 - 375.8364
SAMP 10258392022 - SMT WI



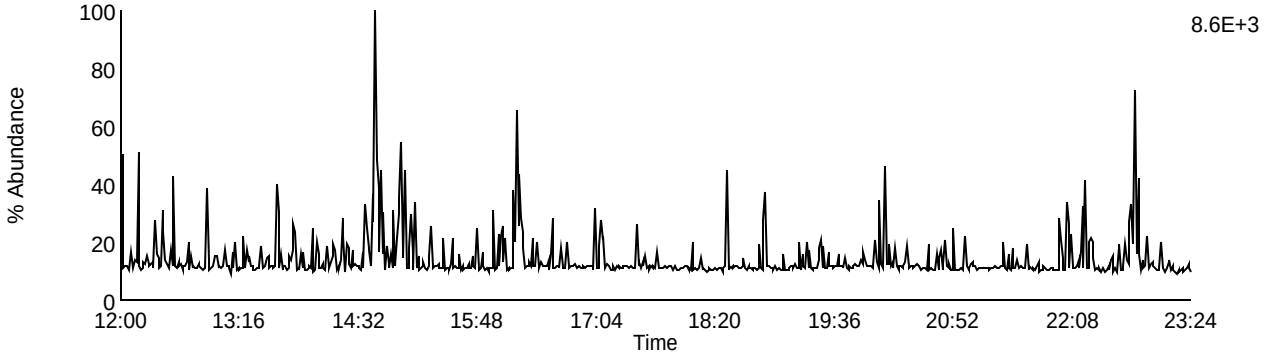
Data File: F140307A_11 G1 C5 - 318.9792
SAMP 10258392022 - SMT WI



Homologue Group: Penta & Cleanup

Data File Name: F140307A_11	Lab Sample ID: 10258392022
Date Acquired: 3/7/2014	Client Sample ID: MAK111L
Sample Description: SAMP 10258392022 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_11 G1 C12 - 339.8597
SAMP 10258392022 - SMT WI



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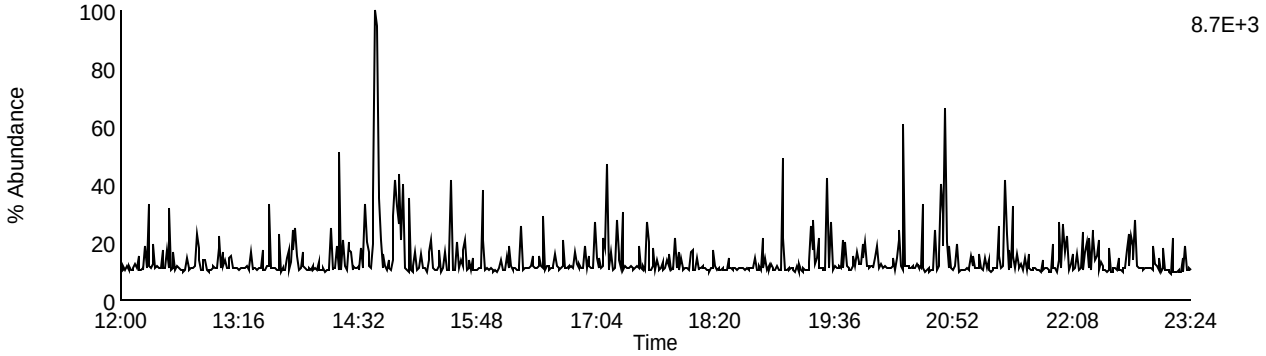
SAMP 10258392022 - SMT WI



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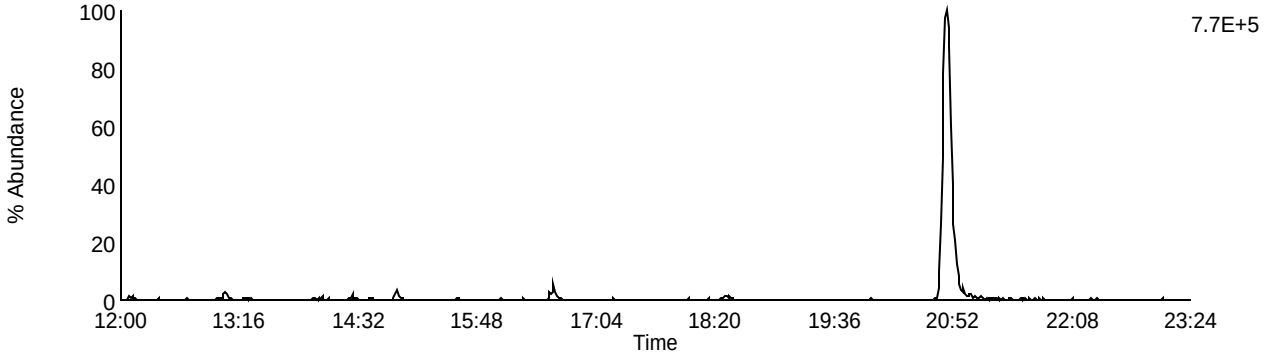
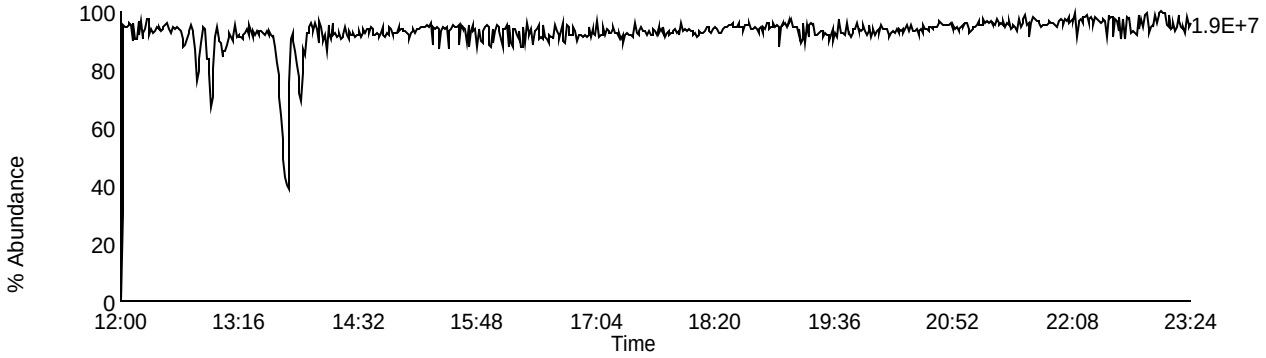
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G1 C5 - 318.9792
SAMP 10258392022 - SMT WI

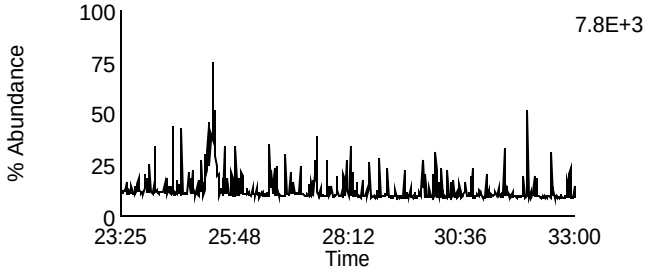


Homologue Group: Pentas

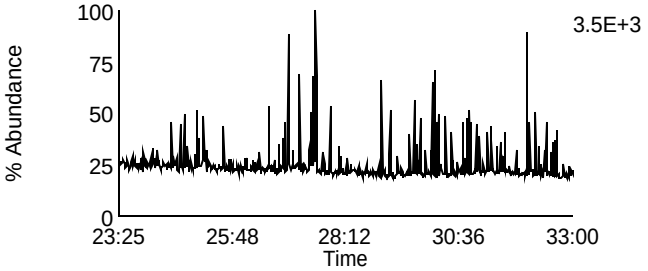
Data File Name: F140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392022 - SMT WI

Lab Sample ID: 10258392022
Client Sample ID: MAK111L
Instrument: 10MSHR05 (F)

Data File: F140307A_11 G2 C1 - 339.8597
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G2 C4 - 353.8576
SAMP 10258392022 - SMT WI



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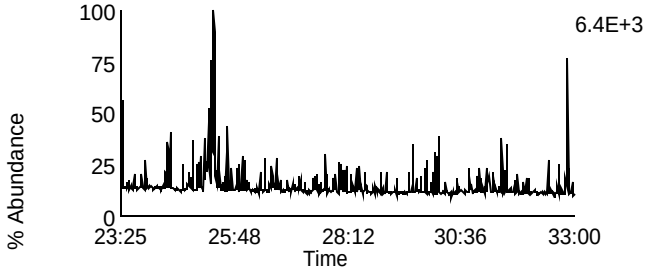
SAMP 10258392022 - SMT WI



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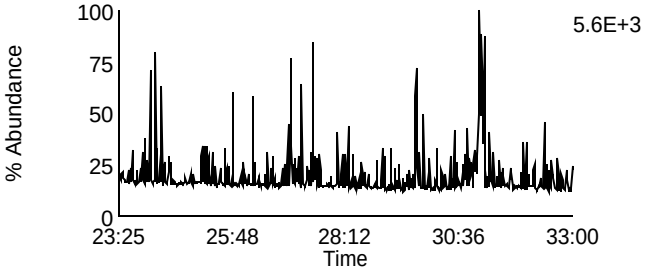
SAMP 10258392022 - SMT WI



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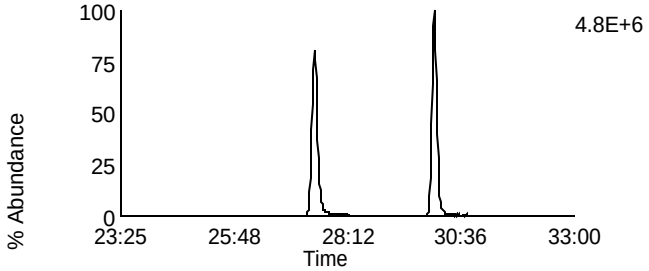
SAMP 10258392022 - SMT WI



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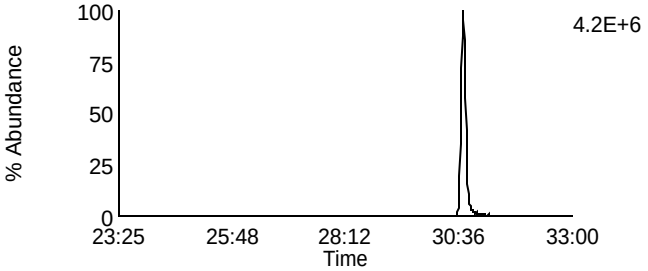
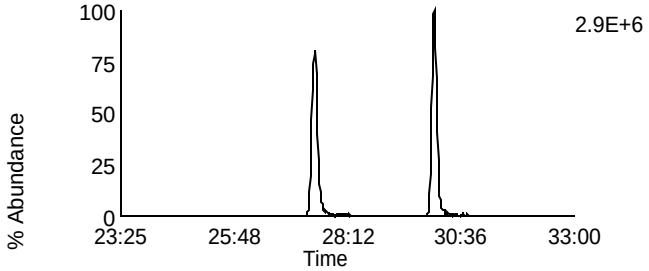
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G2 C5 - 353.8969
SAMP 10258392022 - SMT WI



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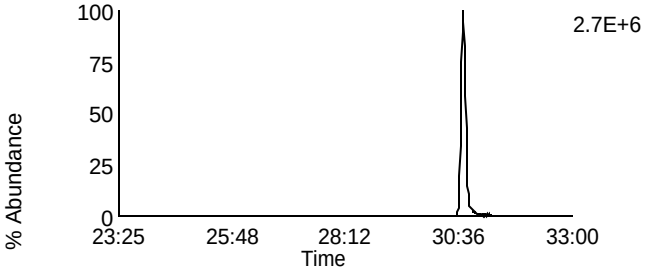
SAMP 10258392022 - SMT WI



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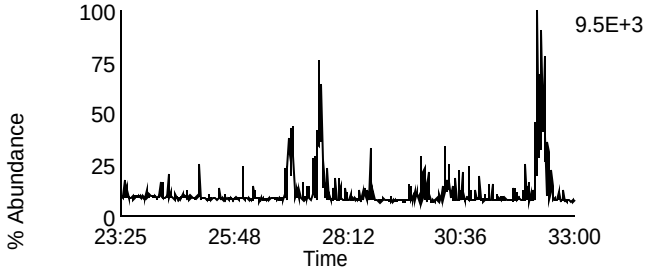
SAMP 10258392022 - SMT WI



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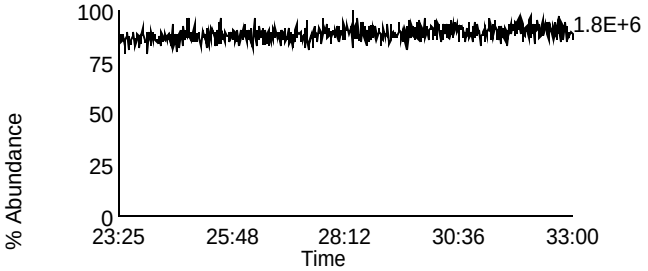
SAMP 10258392022 - SMT WI

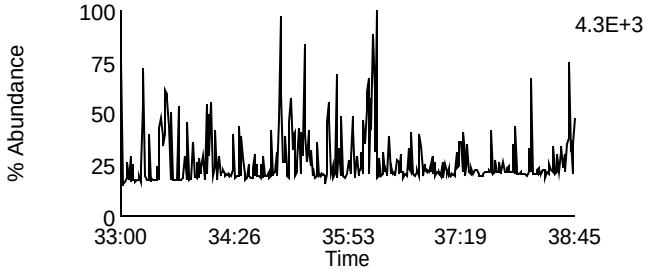


Homologue Group: Hexas

Data File Name: F140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392022 - SMT WI

Lab Sample ID: 10258392022
Client Sample ID: MAK111L
Instrument: 10MSHR05 (F)

Data File: F140307A_11 G3 C1 - 373.8207
SAMP 10258392022 - SMT WI



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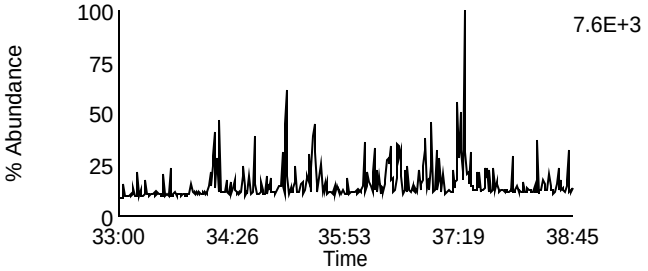
SAMP 10258392022 - SMT WI



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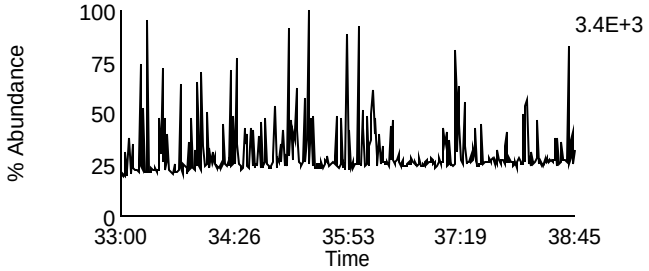
SAMP 10258392022 - SMT WI



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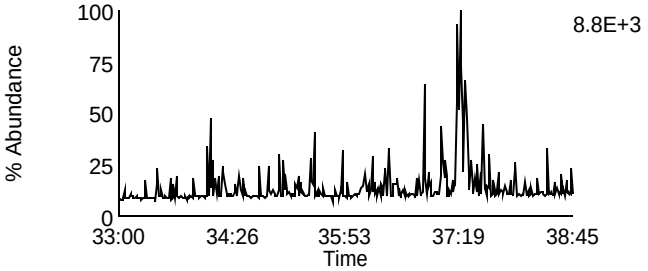
SAMP 10258392022 - SMT WI



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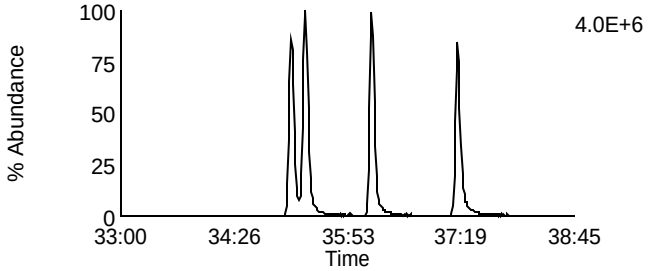
SAMP 10258392022 - SMT WI



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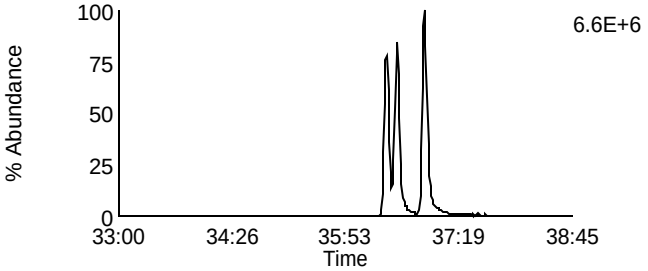
SAMP 10258392022 - SMT WI



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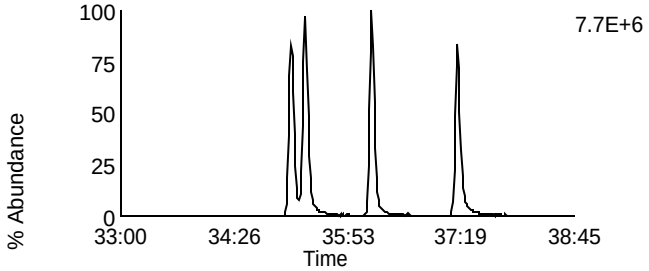
SAMP 10258392022 - SMT WI



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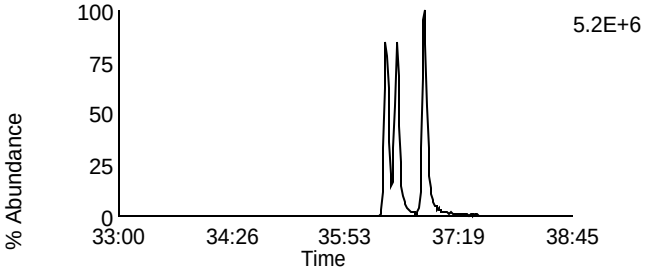

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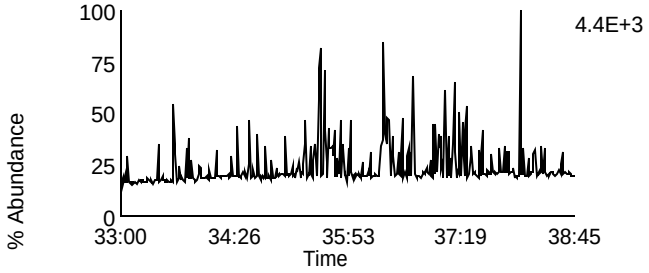

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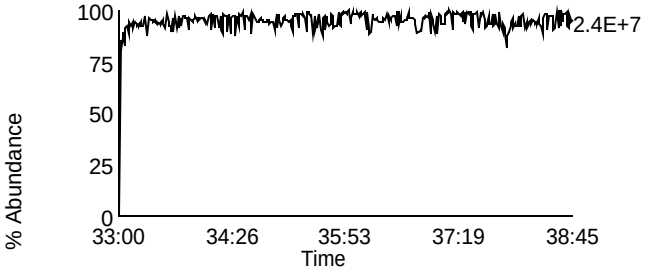
SAMP 10258392022 - SMT WI

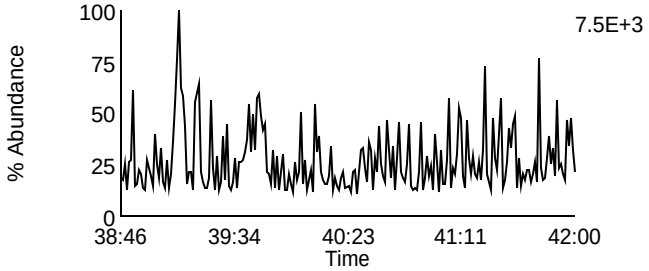


Homologue Group: Heptas

Data File Name: F140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392022 - SMT WI

Lab Sample ID: 10258392022
Client Sample ID: MAK111L
Instrument: 10MSHR05 (F)

Data File: F140307A_11 G4 C3 - 407.7818
SAMP 10258392022 - SMT WI



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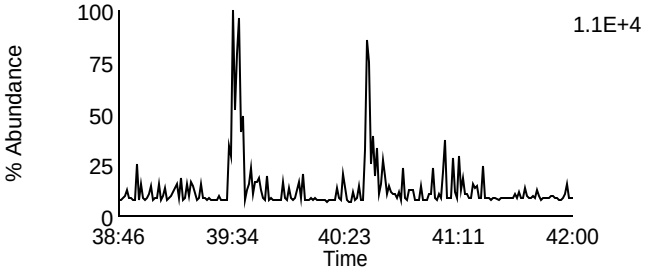
SAMP 10258392022 - SMT WI



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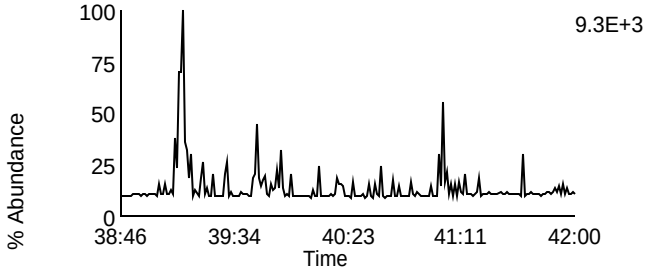
SAMP 10258392022 - SMT WI



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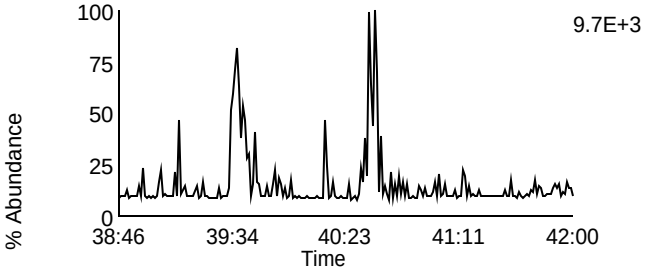
SAMP 10258392022 - SMT WI



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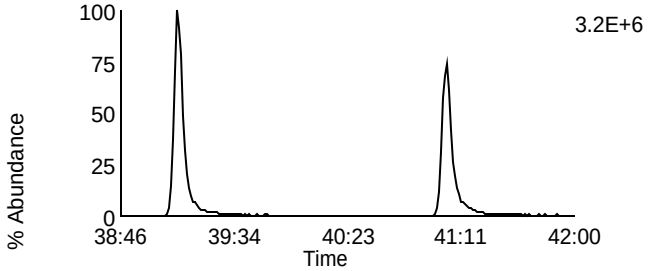
SAMP 10258392022 - SMT WI



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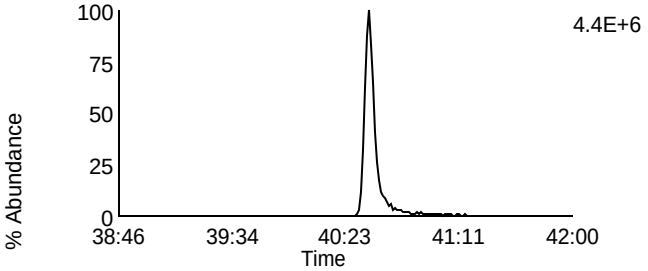
SAMP 10258392022 - SMT WI



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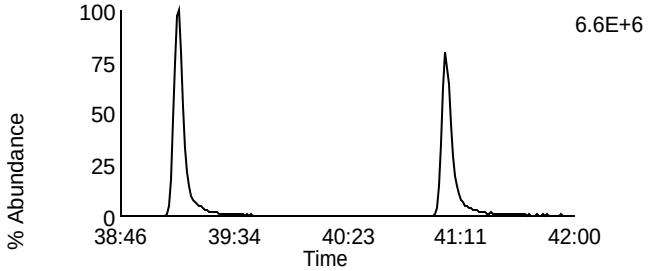
SAMP 10258392022 - SMT WI



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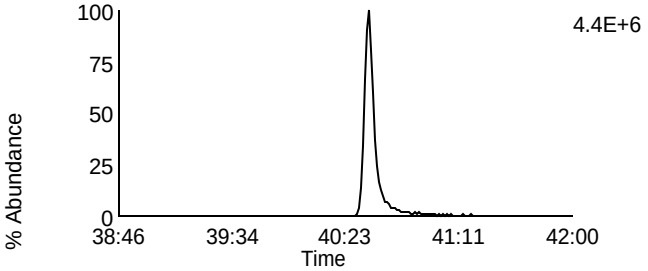

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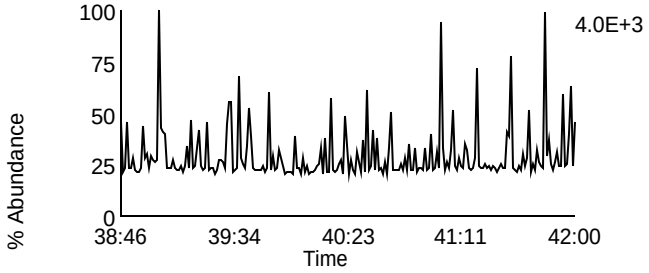
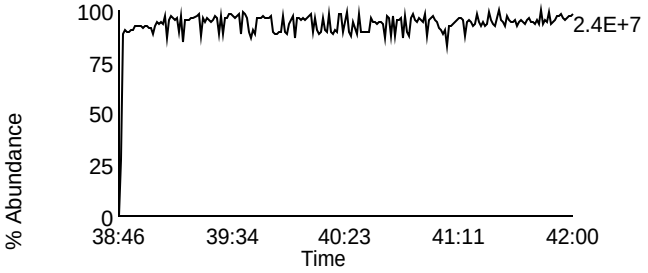
SAMP 10258392022 - SMT WI



Data File: F140307A_11 G4 C1 - 380.976
SAMP 10258392022 - SMT WI

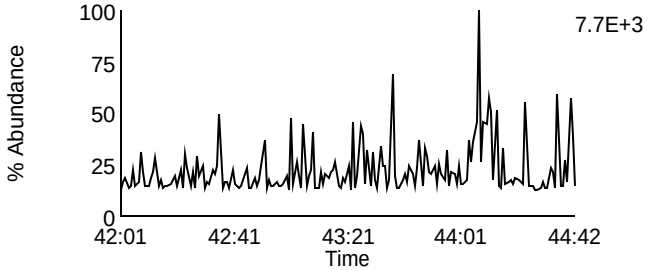


Homologue Group: Octas

Data File Name: F140307A_11
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392022 - SMT WI

Lab Sample ID: 10258392022
Client Sample ID: MAK111L
Instrument: 10MSHR05 (F)

Data File: F140307A_11 G5 C4 - 441.7428
SAMP 10258392022 - SMT WI



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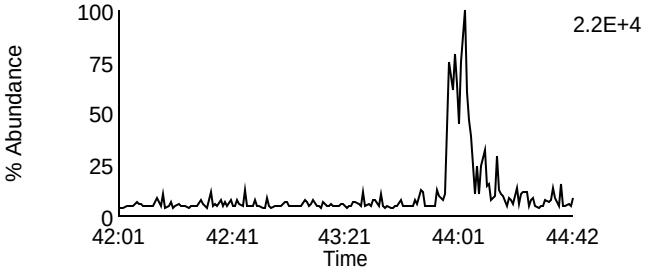
SAMP 10258392022 - SMT WI



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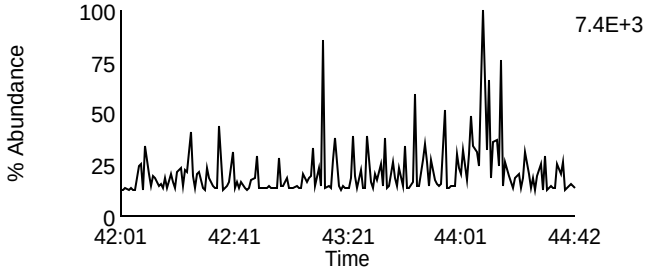
SAMP 10258392022 - SMT WI



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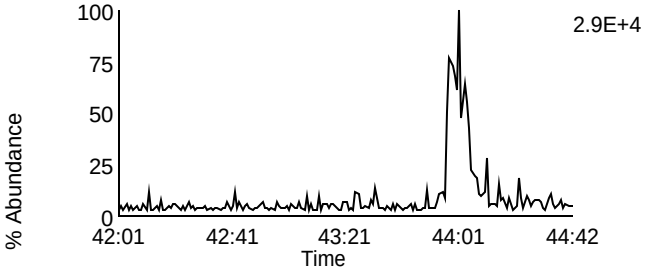
SAMP 10258392022 - SMT WI



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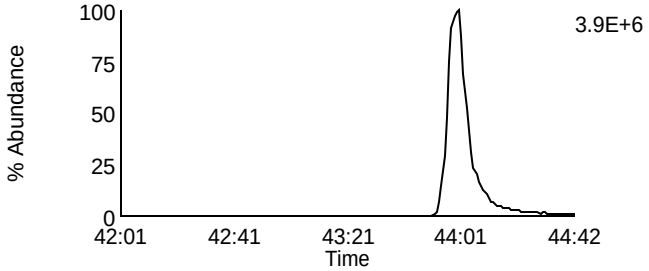
SAMP 10258392022 - SMT WI



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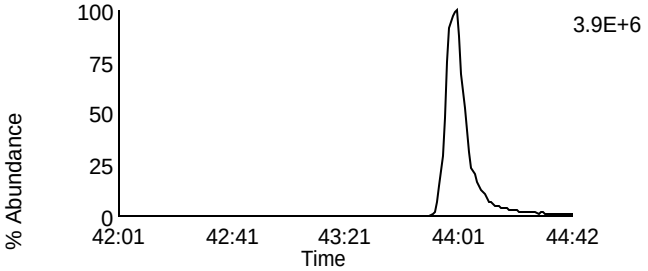
SAMP 10258392022 - SMT WI



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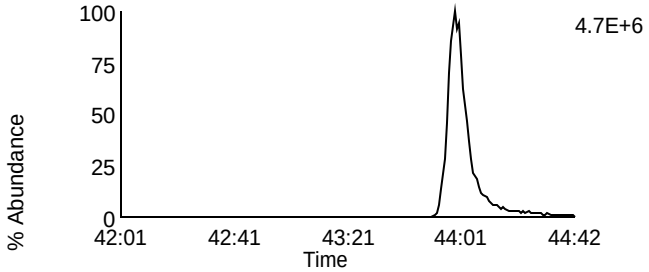
SAMP 10258392022 - SMT WI



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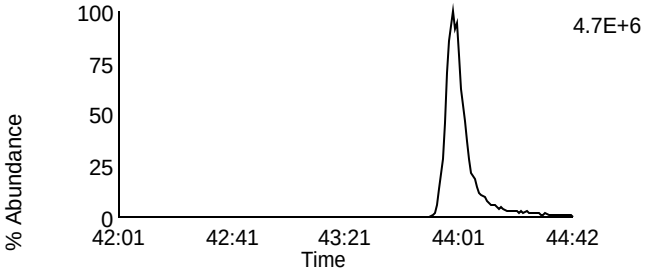
SAMP 10258392022 - SMT WI



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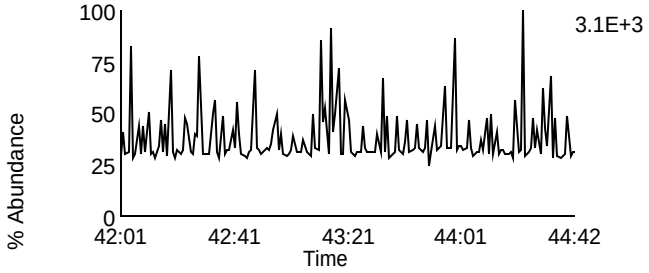
SAMP 10258392022 - SMT WI



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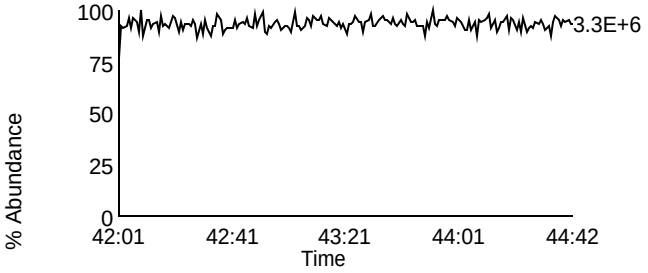
SAMP 10258392022 - SMT WI

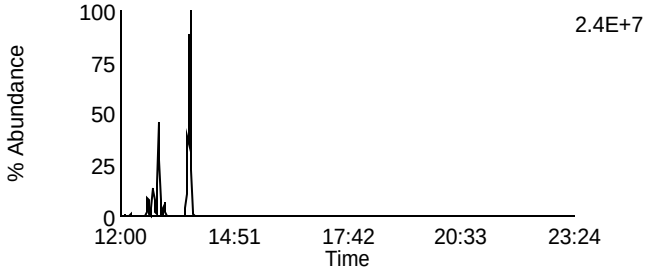


Homologue Group: Tetras

Data File Name: F140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392023 - SMT WI

Lab Sample ID: 10258392023
Client Sample ID: MAK112L
Instrument: 10MSHR05 (F)

Data File: F140307A_12 G1 C1 - 303.9016
SAMP 10258392023 - SMT WI



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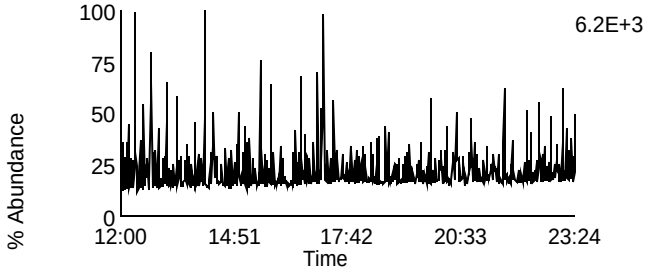
SAMP 10258392023 - SMT WI



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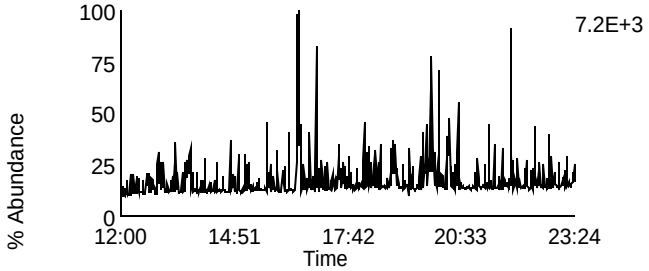
SAMP 10258392023 - SMT WI



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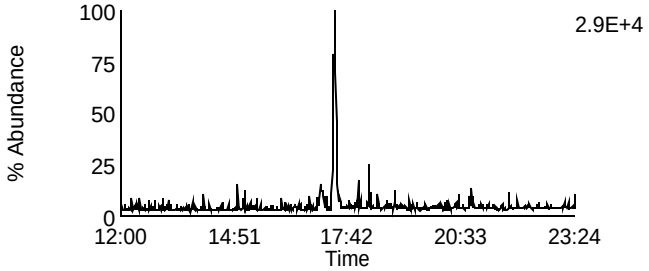
SAMP 10258392023 - SMT WI



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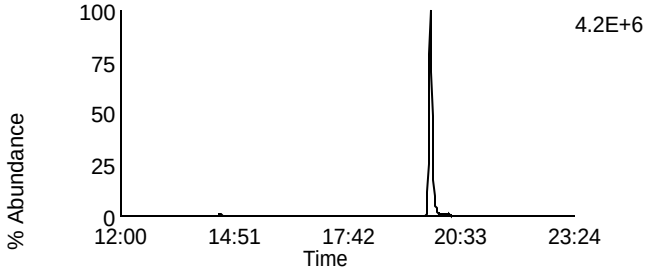
SAMP 10258392023 - SMT WI



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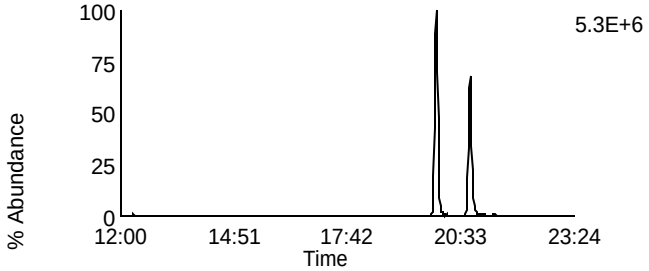
SAMP 10258392023 - SMT WI



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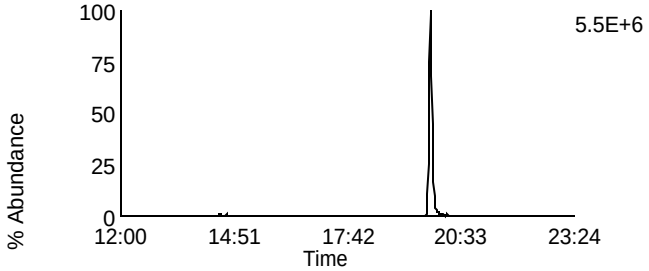
SAMP 10258392023 - SMT WI



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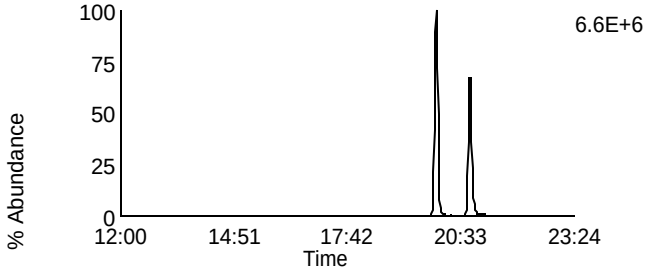
SAMP 10258392023 - SMT WI



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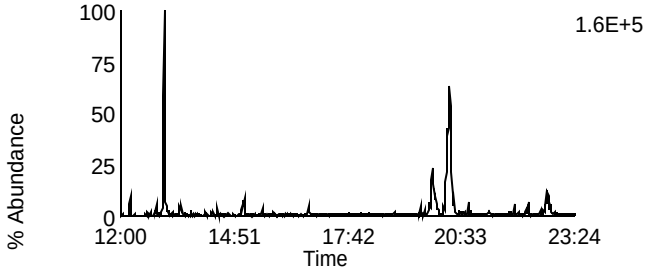
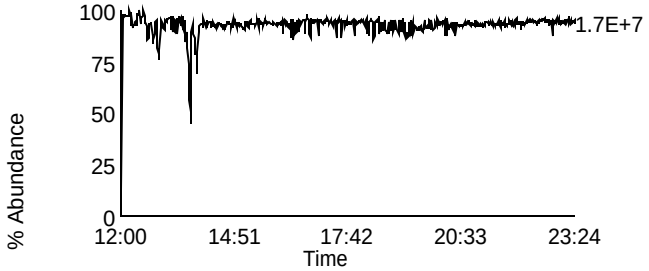
SAMP 10258392023 - SMT WI



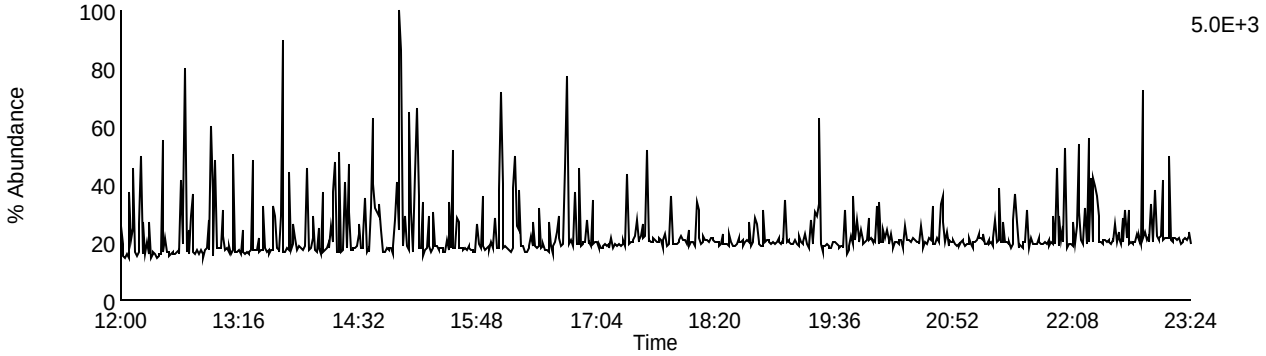
Data File: F140307A_12 G1 C5 - 318.9792
SAMP 10258392023 - SMT WI



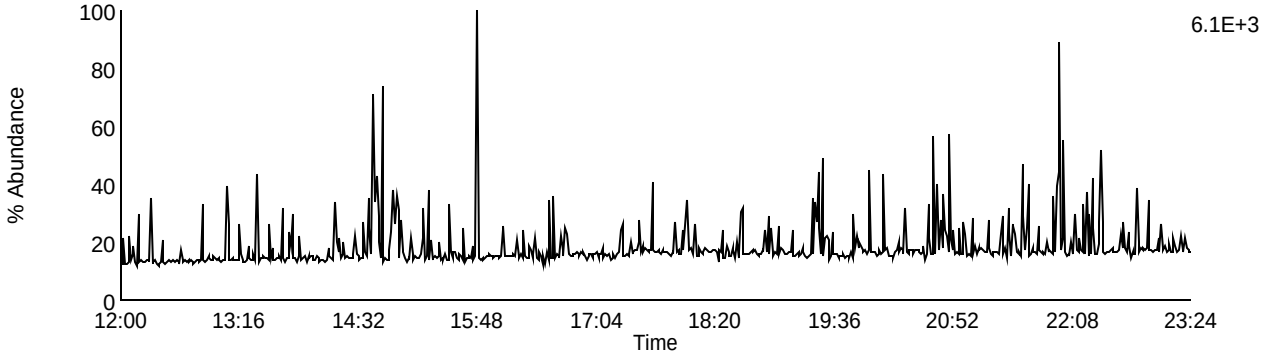
Homologue Group: Penta & Cleanup

Data File Name: F140307A_12	Lab Sample ID: 10258392023
Date Acquired: 3/7/2014	Client Sample ID: MAK112L
Sample Description: SAMP 10258392023 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_12 G1 C12 - 339.8597
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G1 C13 - 341.8567
SAMP 10258392023 - SMT WI



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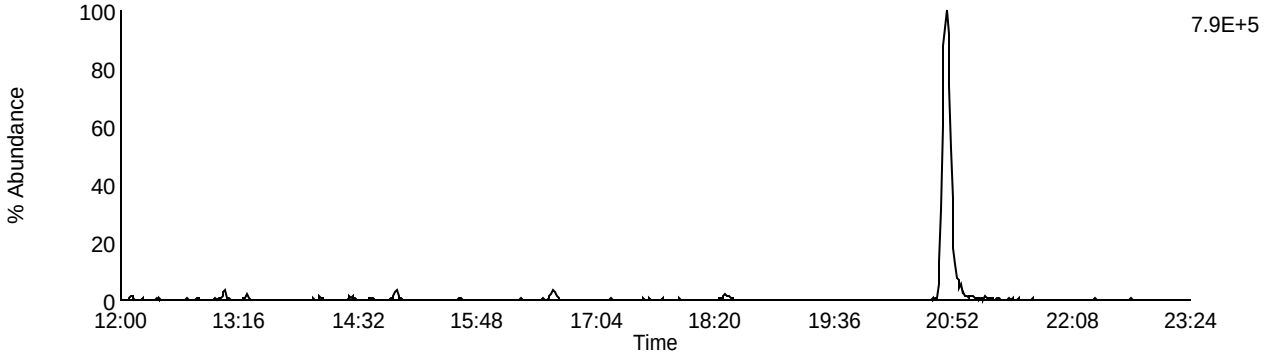
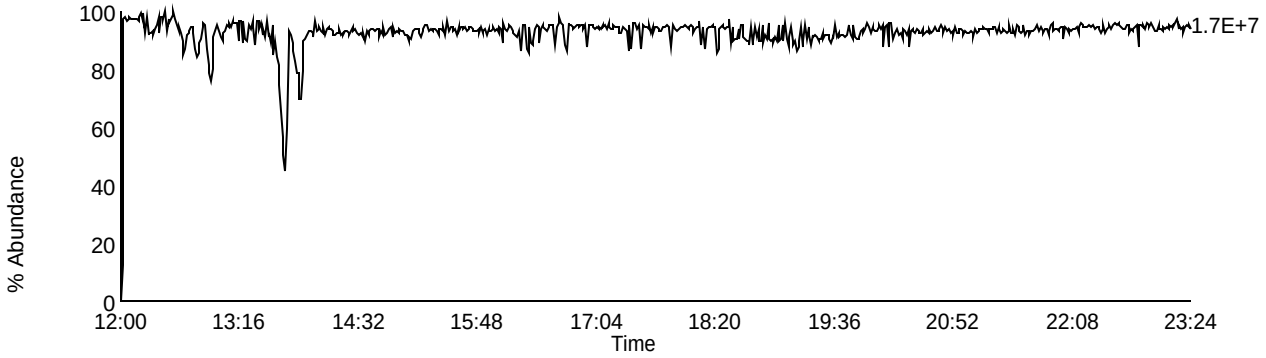
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G1 C5 - 318.9792
SAMP 10258392023 - SMT WI

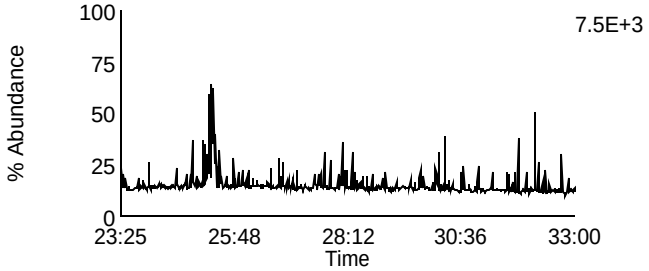


Homologue Group: Pentas

Data File Name: F140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392023 - SMT WI

Lab Sample ID: 10258392023
Client Sample ID: MAK112L
Instrument: 10MSHR05 (F)

Data File: F140307A_12 G2 C1 - 339.8597
SAMP 10258392023 - SMT WI



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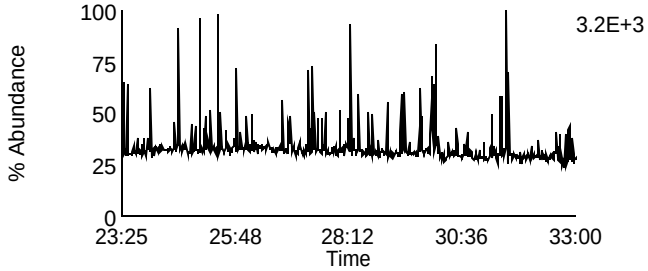
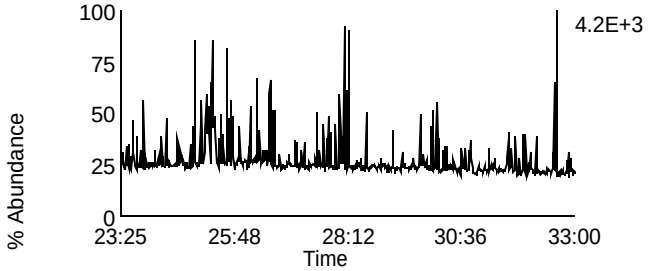
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G2 C2 - 341.8567
SAMP 10258392023 - SMT WI



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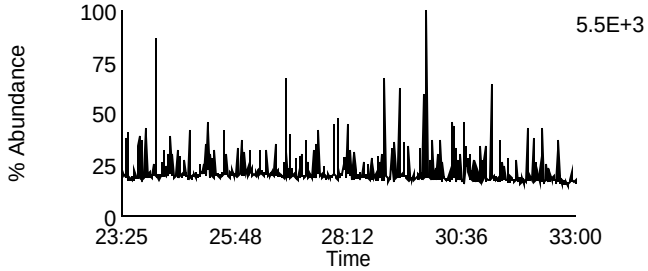
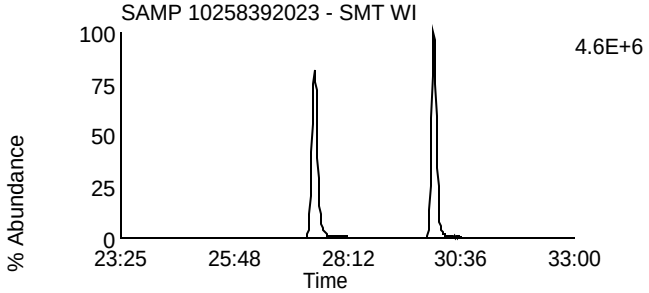
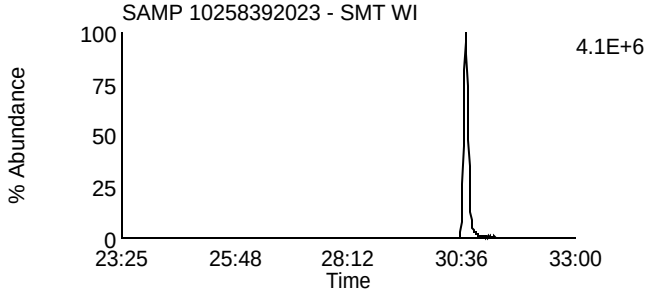
SAMP 10258392023 - SMT WI



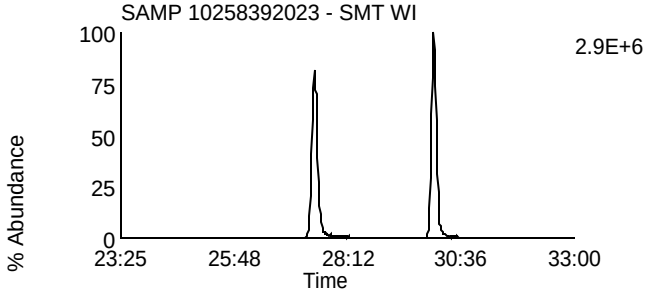
Data File: F140307A_12 G2 C3 - 351.8999
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G2 C10 - 367.8948
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G2 C5 - 353.8969
SAMP 10258392023 - SMT WI



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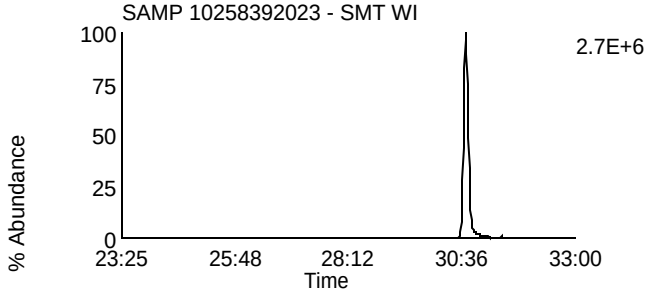
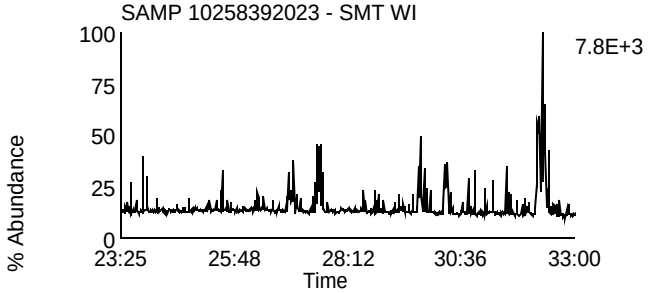
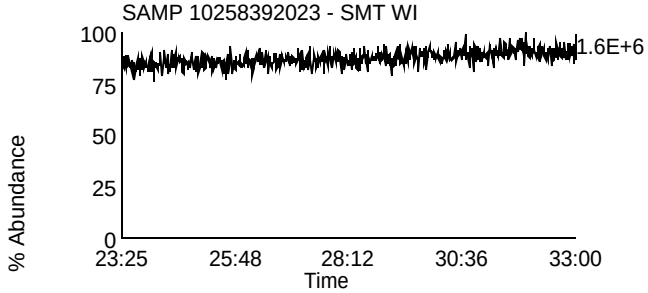
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G2 C12 - 409.7974
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G2 C6 - 354.9792
SAMP 10258392023 - SMT WI

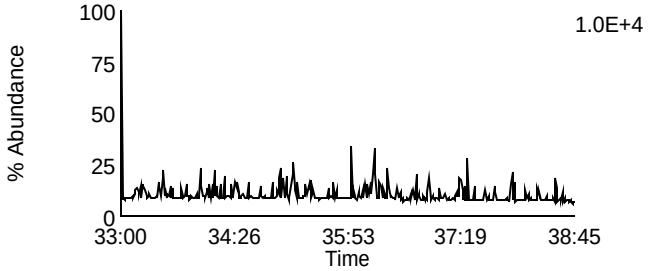


Homologue Group: Hexas

Data File Name: F140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392023 - SMT WI

Lab Sample ID: 10258392023
Client Sample ID: MAK112L
Instrument: 10MSHR05 (F)

Data File: F140307A_12 G3 C1 - 373.8207
SAMP 10258392023 - SMT WI



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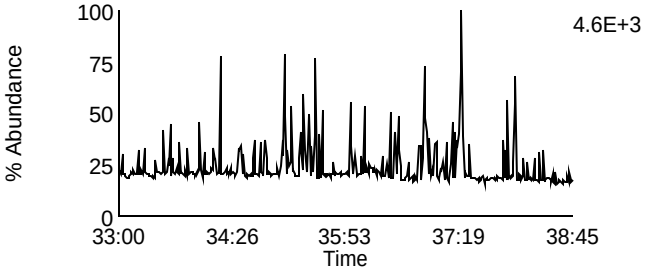
SAMP 10258392023 - SMT WI



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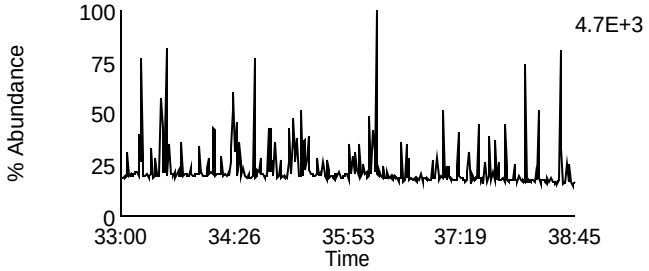
SAMP 10258392023 - SMT WI



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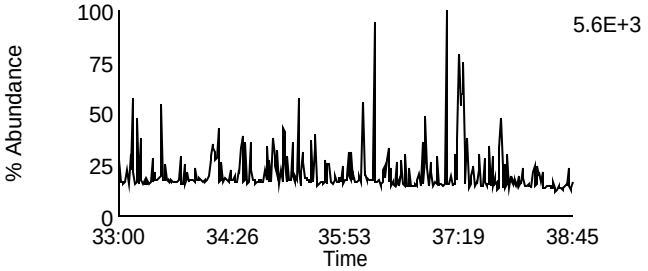
SAMP 10258392023 - SMT WI



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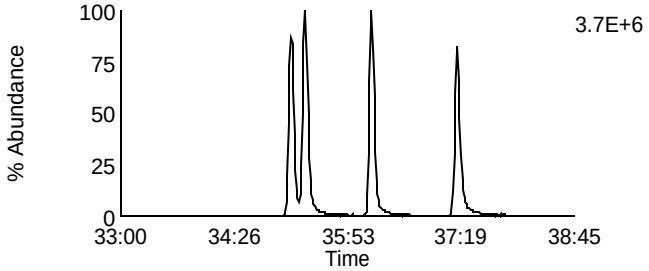
SAMP 10258392023 - SMT WI



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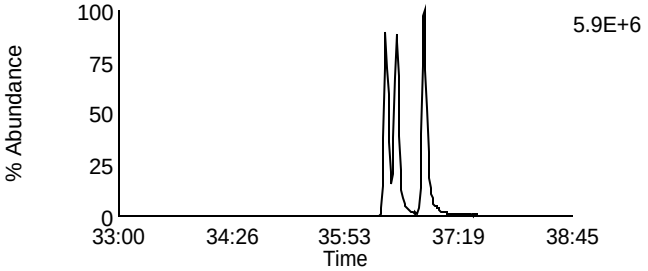
SAMP 10258392023 - SMT WI



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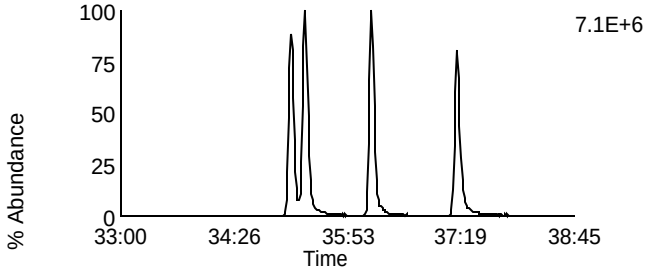
SAMP 10258392023 - SMT WI



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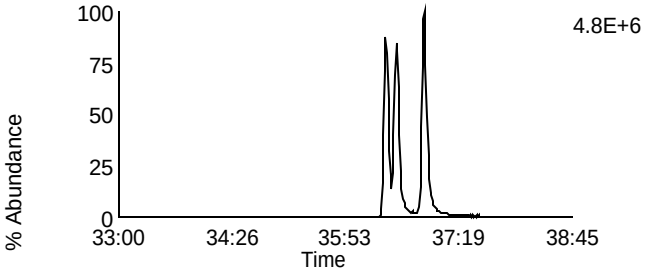
SAMP 10258392023 - SMT WI



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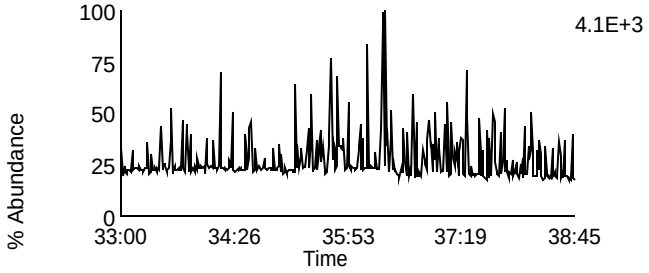
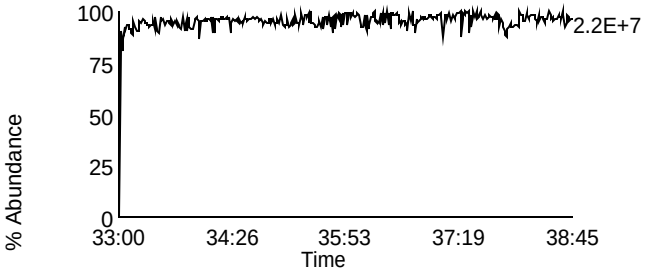
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G3 C3 - 380.976
SAMP 10258392023 - SMT WI

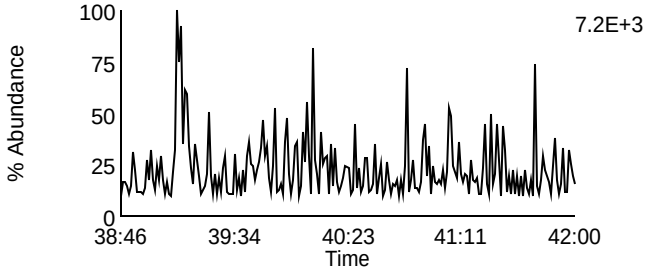


Homologue Group: Heptas

Data File Name: F140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392023 - SMT WI

Lab Sample ID: 10258392023
Client Sample ID: MAK112L
Instrument: 10MSHR05 (F)

Data File: F140307A_12 G4 C3 - 407.7818
SAMP 10258392023 - SMT WI



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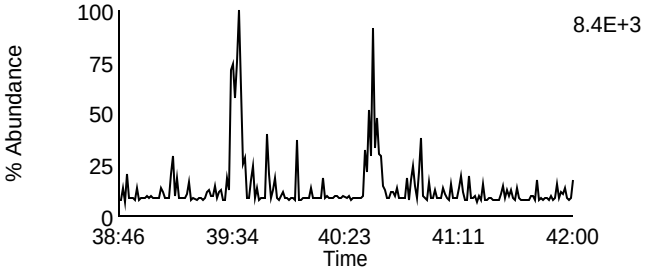
SAMP 10258392023 - SMT WI



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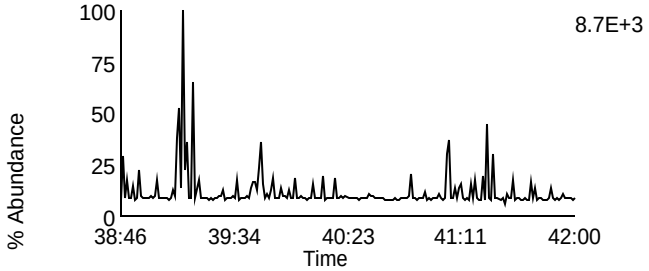
SAMP 10258392023 - SMT WI



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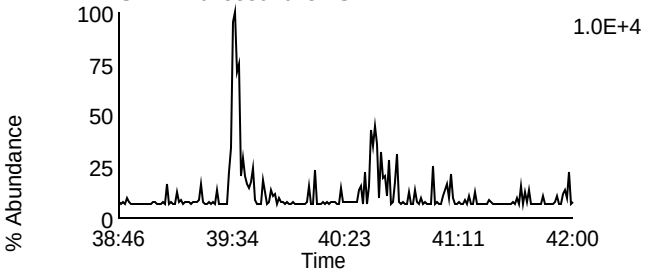
SAMP 10258392023 - SMT WI



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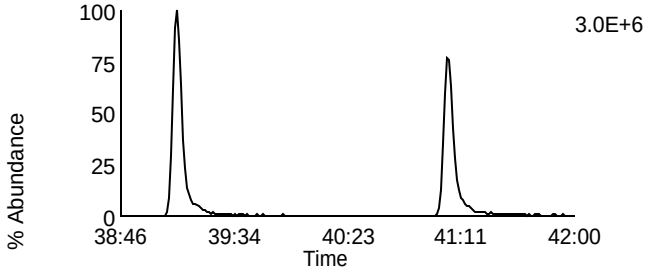
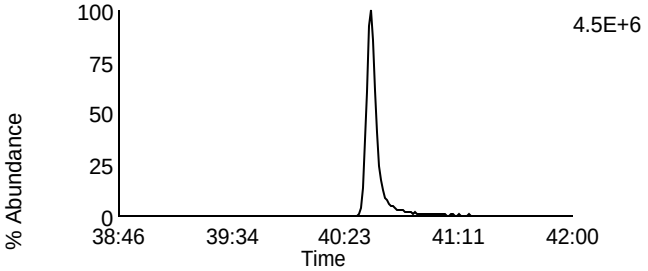
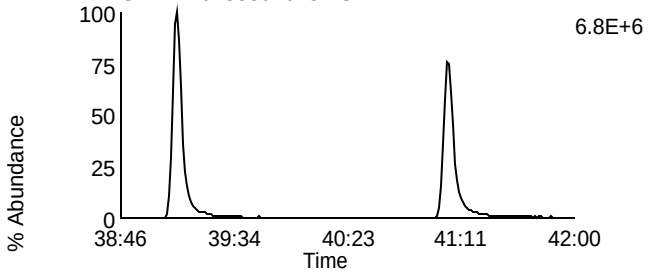
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G4 C11 - 435.8169
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G4 C7 - 419.822
SAMP 10258392023 - SMT WI



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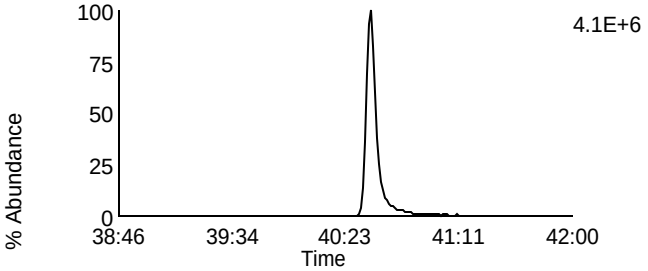
SAMP 10258392023 - SMT WI



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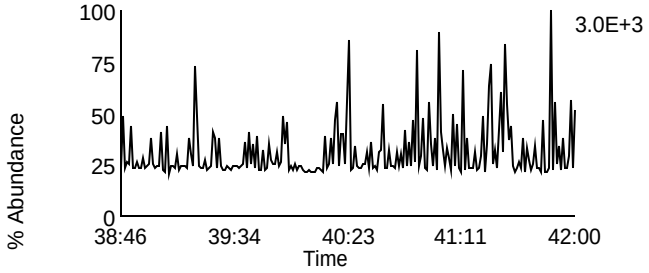
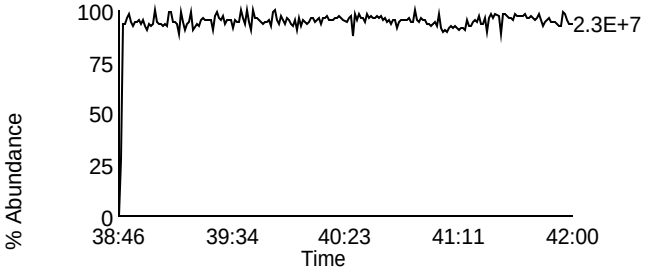
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G4 C1 - 380.976
SAMP 10258392023 - SMT WI

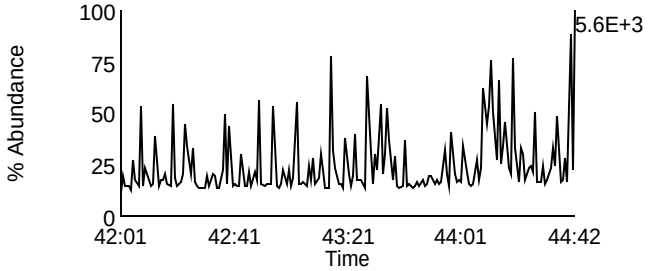


Homologue Group: Octas

Data File Name: F140307A_12
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392023 - SMT WI

Lab Sample ID: 10258392023
Client Sample ID: MAK112L
Instrument: 10MSHR05 (F)

Data File: F140307A_12 G5 C4 - 441.7428
SAMP 10258392023 - SMT WI



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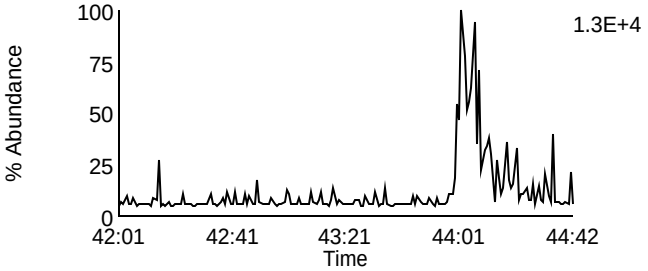
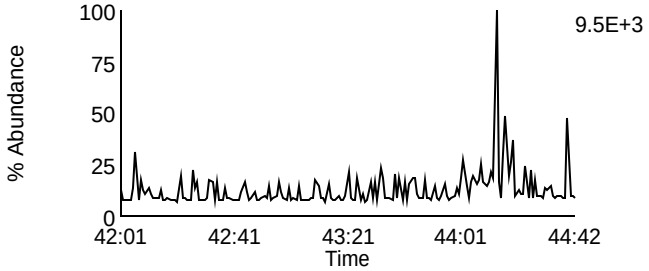
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G5 C5 - 443.7398
SAMP 10258392023 - SMT WI



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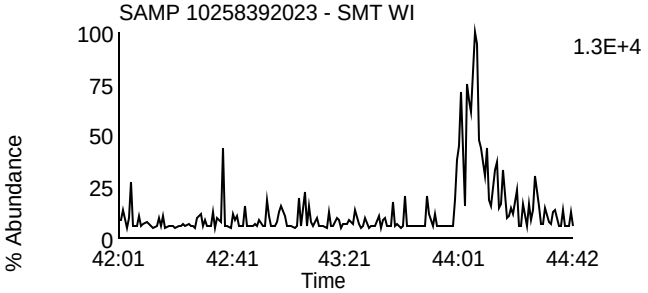
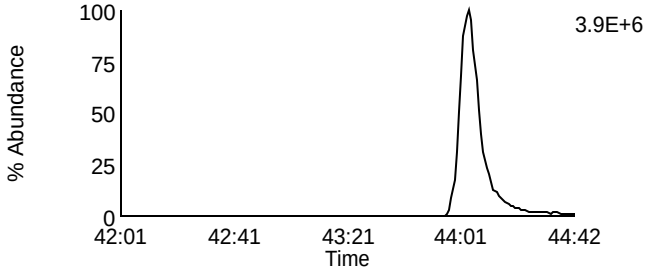
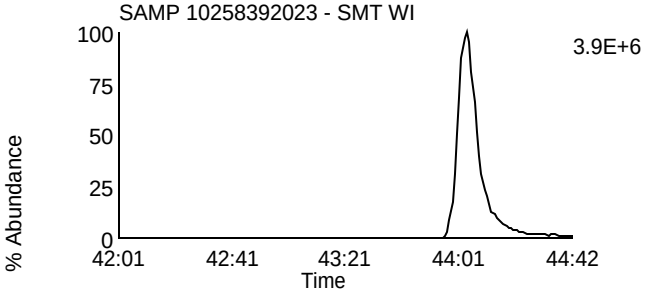
SAMP 10258392023 - SMT WI



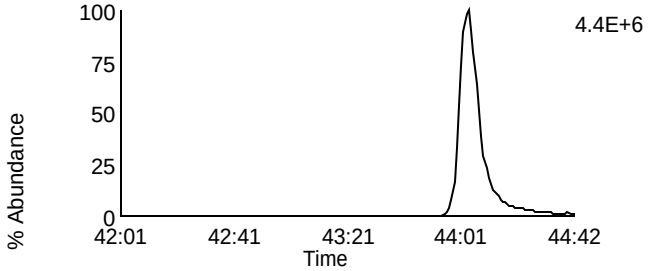
Data File: F140307A_12 G5 C11 - 469.7779
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G5 C11 - 469.7779
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G5 C12 - 471.7749
SAMP 10258392023 - SMT WI



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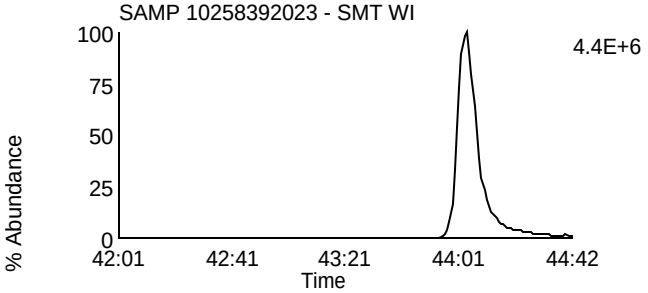
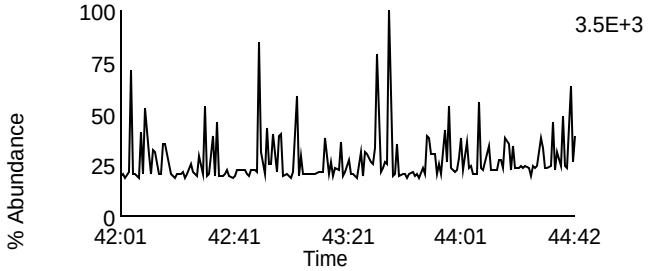
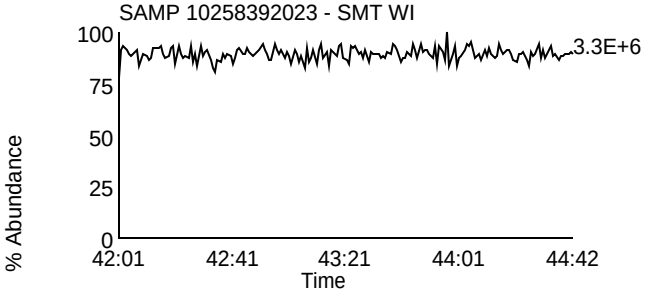
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G5 C13 - 513.6775
SAMP 10258392023 - SMT WI



Data File: F140307A_12 G5 C2 - 430.9728
SAMP 10258392023 - SMT WI

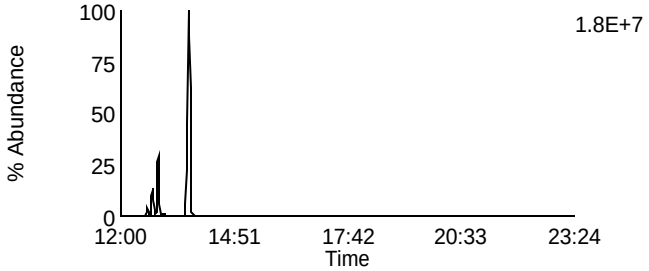


Homologue Group: Tetras

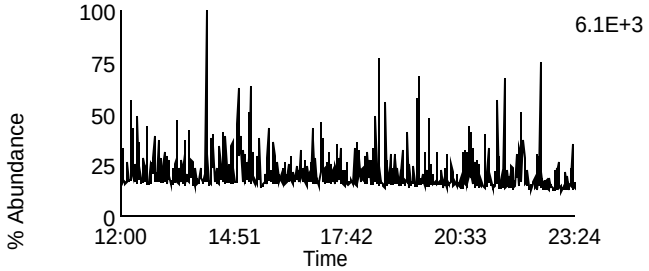
Data File Name: F140307A_13
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392024 - SMT WI

Lab Sample ID: 10258392024
Client Sample ID: MAK115L
Instrument: 10MSHR05 (F)

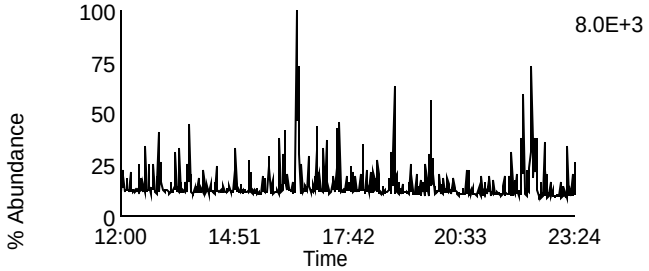
Data File: F140307A_13 G1 C1 - 303.9016
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G1 C7 - 319.8965
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G1 C2 - 305.8987
SAMP 10258392024 - SMT WI



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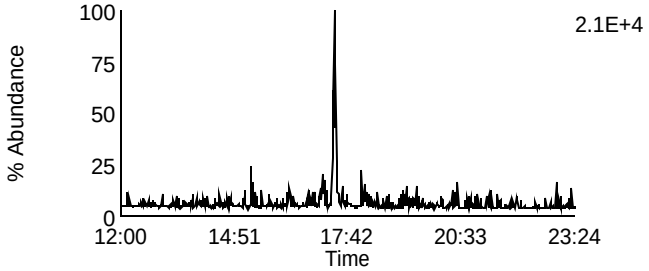
SAMP 10258392024 - SMT WI



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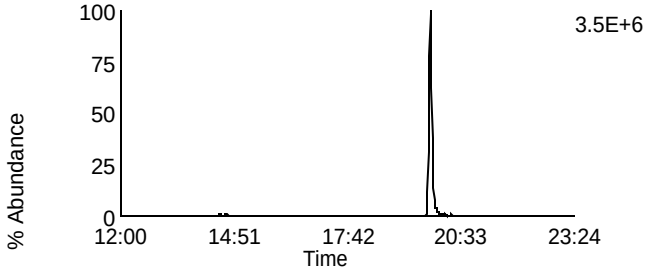
SAMP 10258392024 - SMT WI



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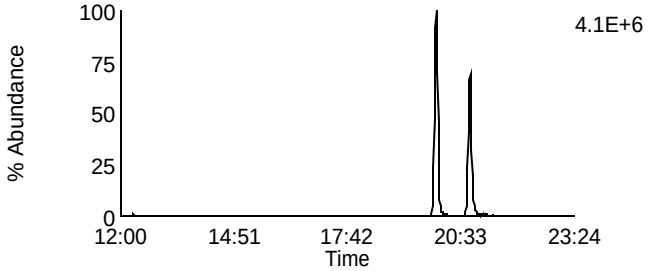
SAMP 10258392024 - SMT WI



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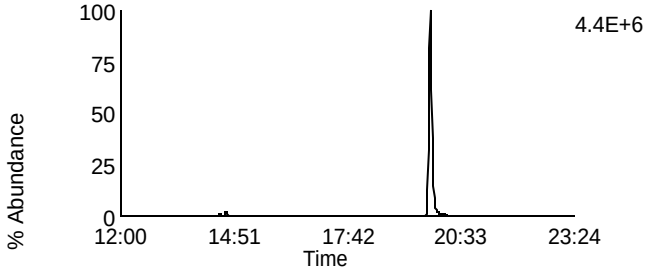
SAMP 10258392024 - SMT WI



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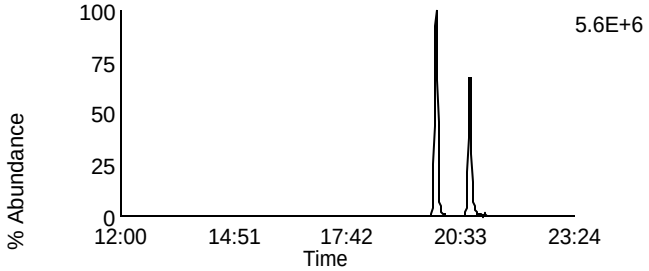
SAMP 10258392024 - SMT WI



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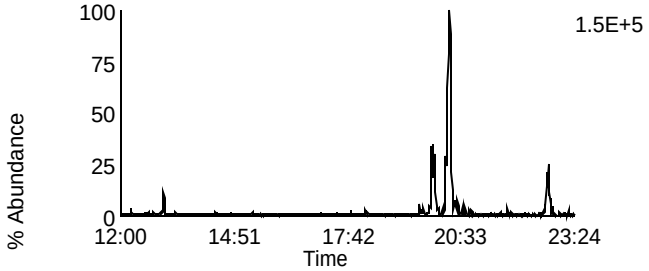
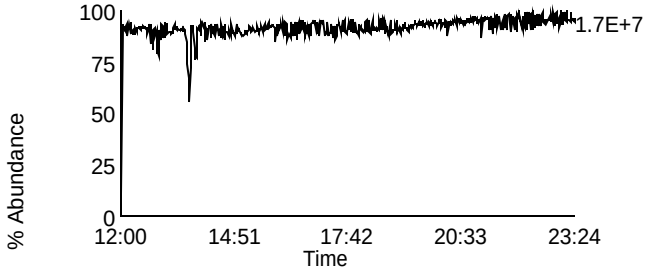
SAMP 10258392024 - SMT WI



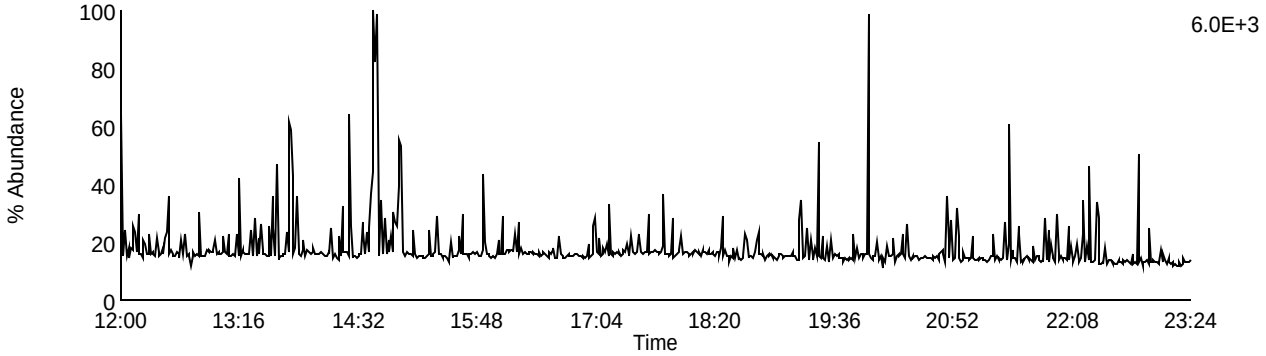
Data File: F140307A_13 G1 C5 - 318.9792
SAMP 10258392024 - SMT WI



Homologue Group: Penta & Cleanup

Data File Name: F140307A_13	Lab Sample ID: 10258392024
Date Acquired: 3/7/2014	Client Sample ID: MAK115L
Sample Description: SAMP 10258392024 - SMT WI	Instrument: 10MSHR05 (F)

Data File: F140307A_13 G1 C12 - 339.8597
SAMP 10258392024 - SMT WI



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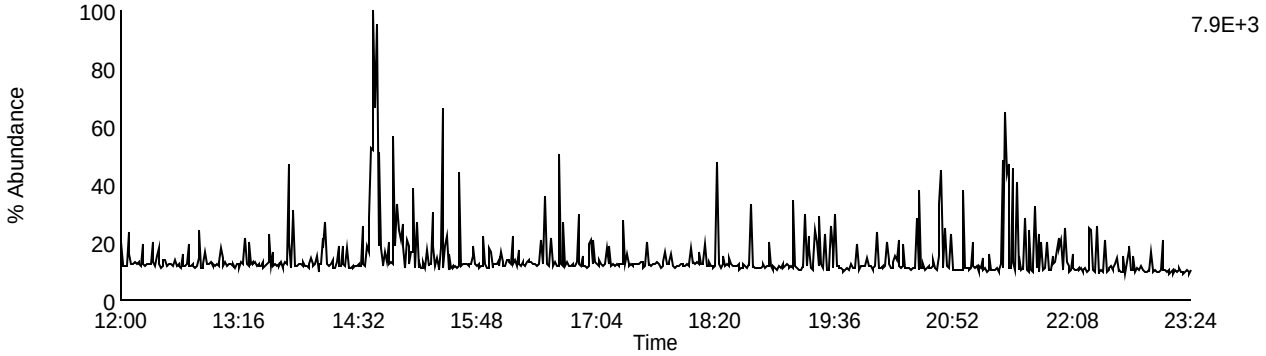
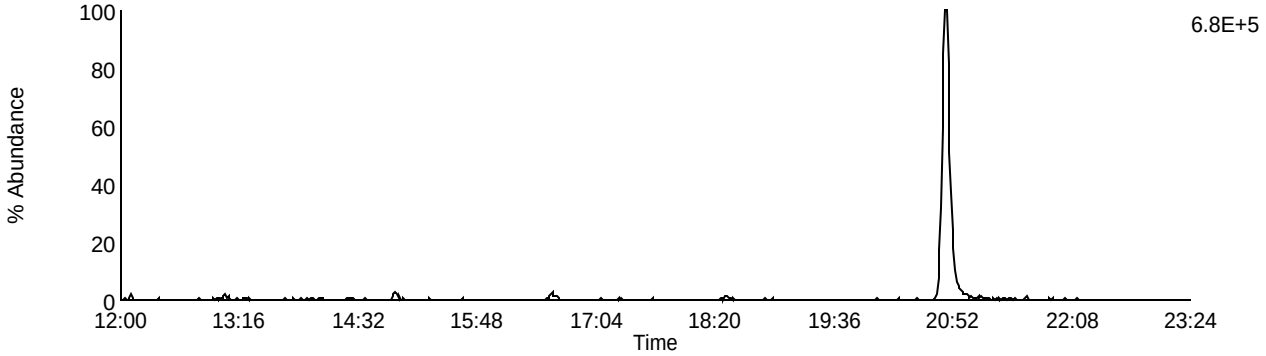
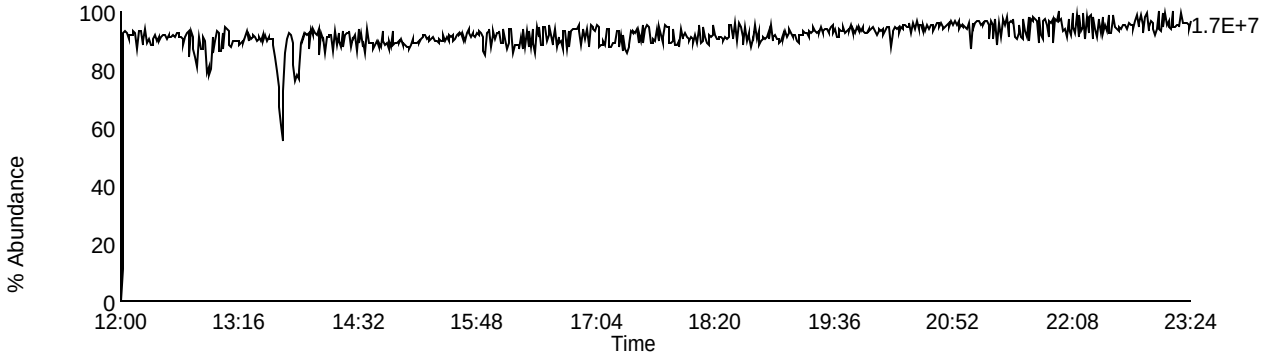
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G1 C9 - 327.8847
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G1 C5 - 318.9792
SAMP 10258392024 - SMT WI

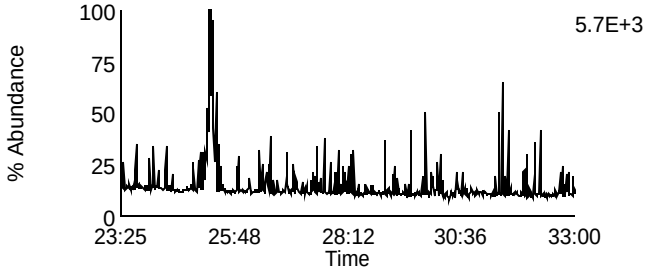


Homologue Group: Pentas

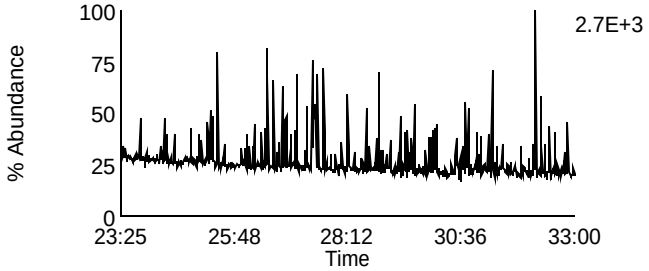
Data File Name: F140307A_13
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392024 - SMT WI

Lab Sample ID: 10258392024
Client Sample ID: MAK115L
Instrument: 10MSHR05 (F)

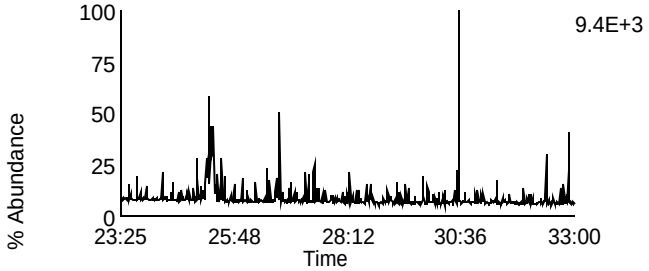
Data File: F140307A_13 G2 C1 - 339.8597
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G2 C4 - 353.8576
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G2 C2 - 341.8567
SAMP 10258392024 - SMT WI



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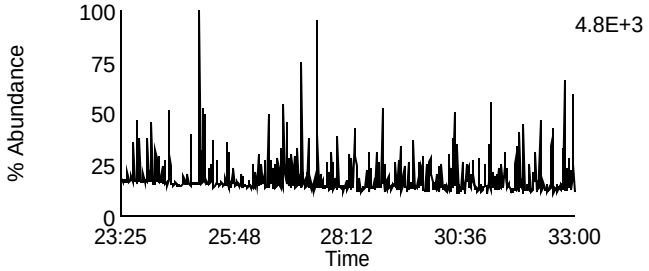
SAMP 10258392024 - SMT WI



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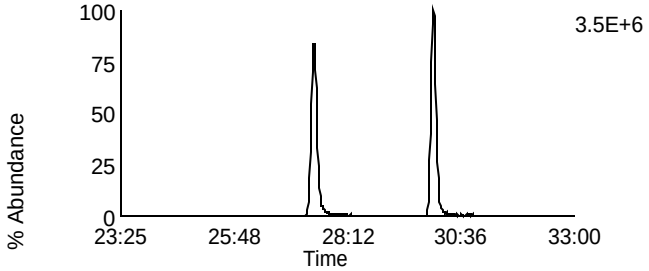
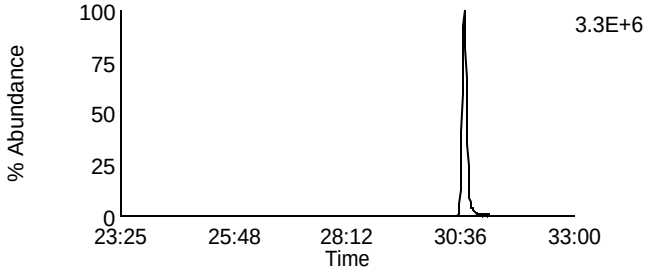
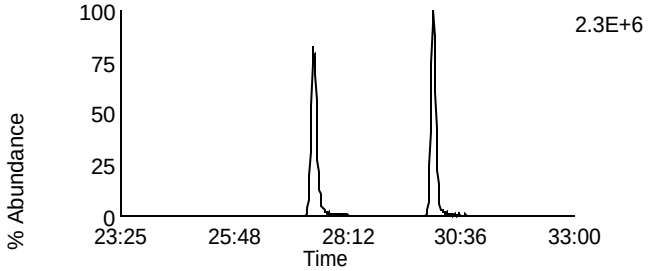
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G2 C10 - 367.8948
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G2 C5 - 353.8969
SAMP 10258392024 - SMT WI



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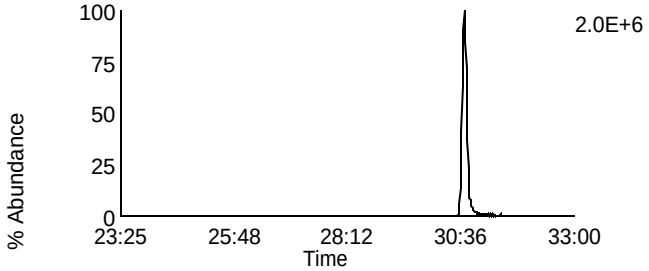
SAMP 10258392024 - SMT WI



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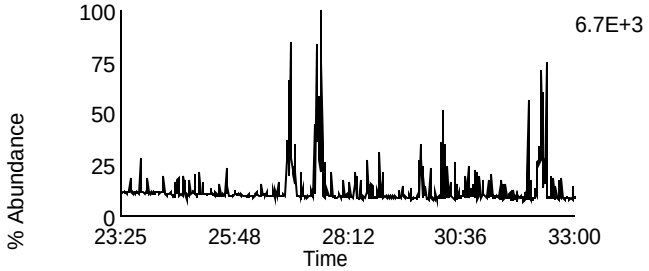
SAMP 10258392024 - SMT WI



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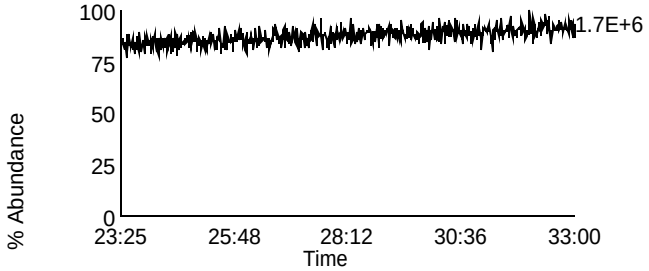
SAMP 10258392024 - SMT WI

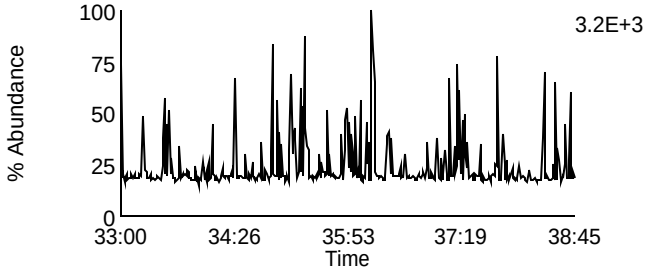


Homologue Group: Hexas

Data File Name: F140307A_13
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392024 - SMT WI

Lab Sample ID: 10258392024
Client Sample ID: MAK115L
Instrument: 10MSHR05 (F)

Data File: F140307A_13 G3 C1 - 373.8207
SAMP 10258392024 - SMT WI



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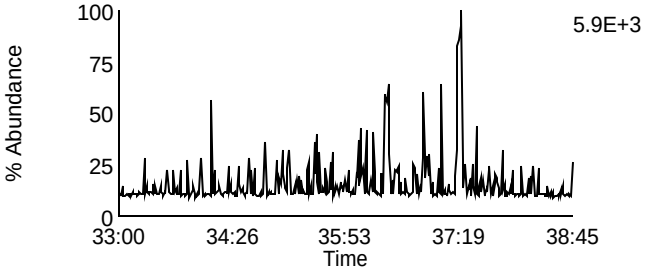
SAMP 10258392024 - SMT WI



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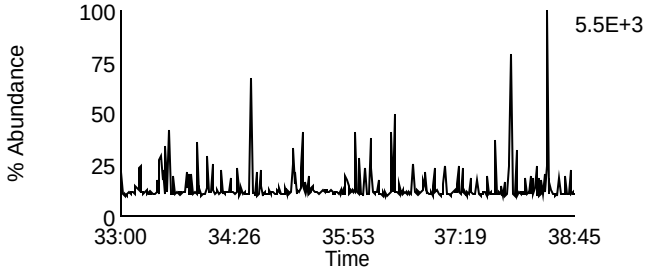
SAMP 10258392024 - SMT WI



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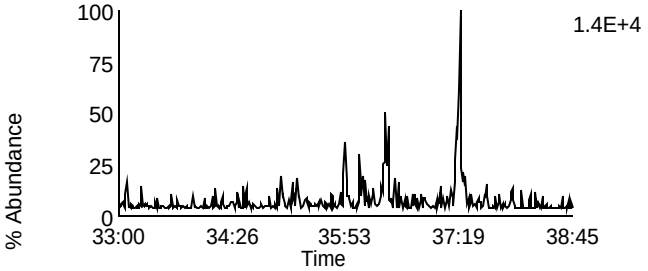
SAMP 10258392024 - SMT WI



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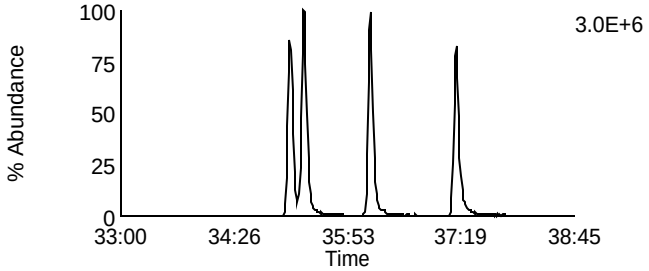
SAMP 10258392024 - SMT WI



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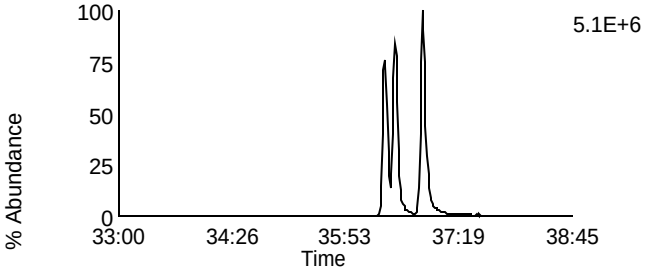
SAMP 10258392024 - SMT WI



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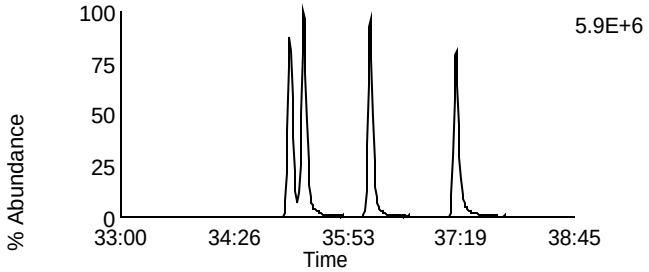
SAMP 10258392024 - SMT WI



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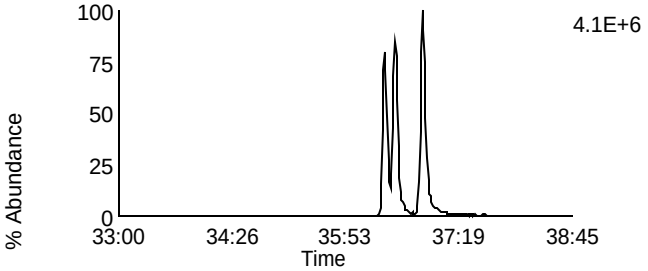
SAMP 10258392024 - SMT WI



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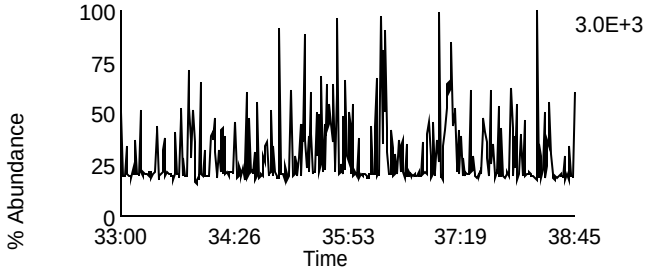
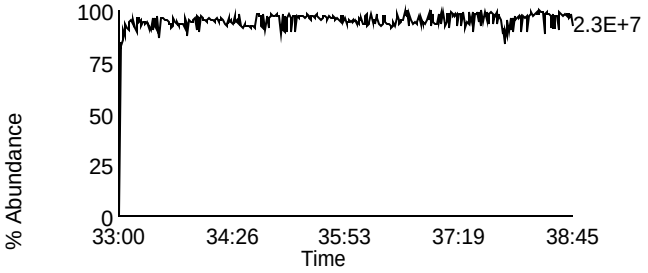
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G3 C3 - 380.976
SAMP 10258392024 - SMT WI

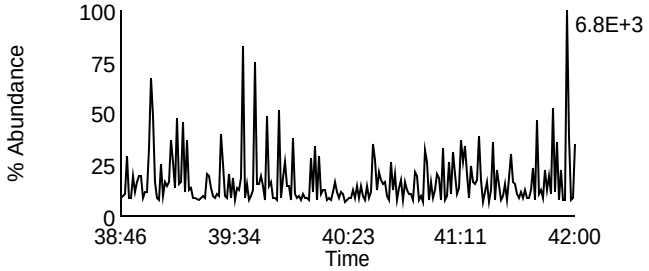


Homologue Group: Heptas

Data File Name: F140307A_13
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392024 - SMT WI

Lab Sample ID: 10258392024
Client Sample ID: MAK115L
Instrument: 10MSHR05 (F)

Data File: F140307A_13 G4 C3 - 407.7818
SAMP 10258392024 - SMT WI



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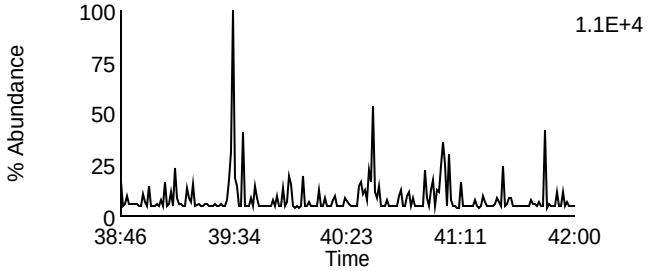
SAMP 10258392024 - SMT WI



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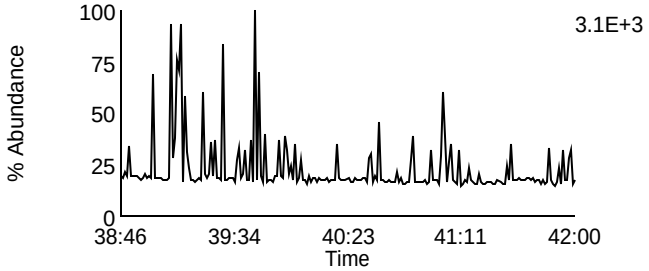
SAMP 10258392024 - SMT WI



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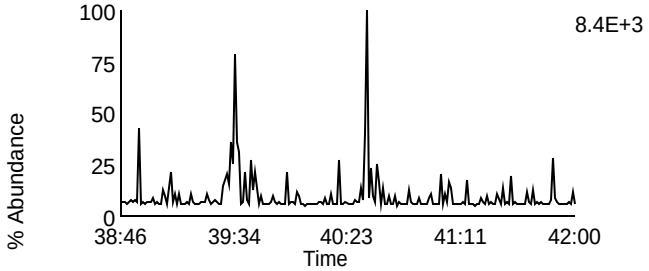
SAMP 10258392024 - SMT WI



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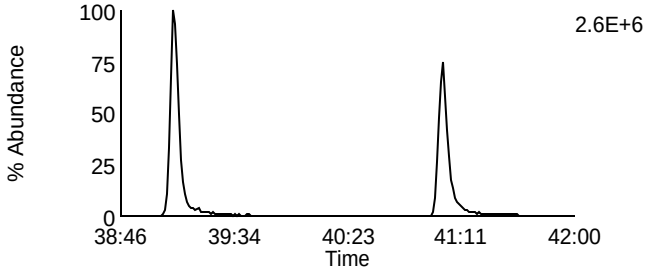
SAMP 10258392024 - SMT WI



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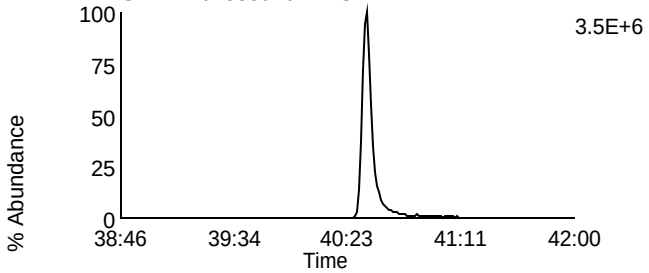
SAMP 10258392024 - SMT WI



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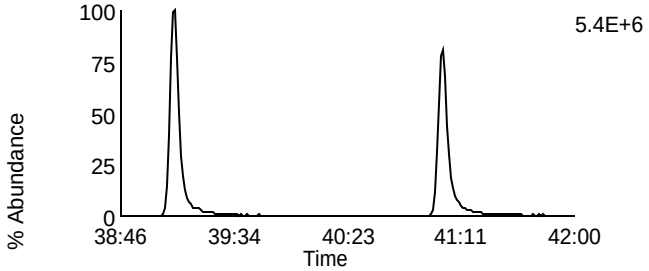
SAMP 10258392024 - SMT WI



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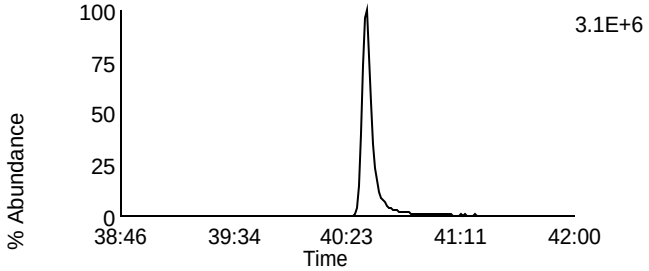
SAMP 10258392024 - SMT WI



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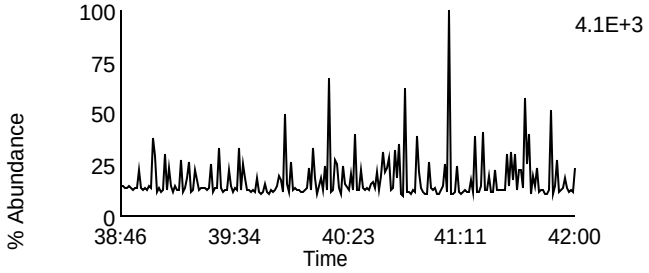
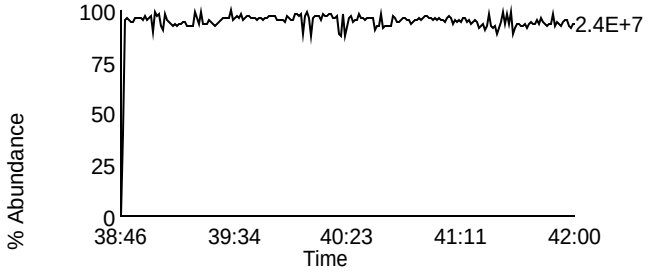
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G4 C1 - 380.976
SAMP 10258392024 - SMT WI

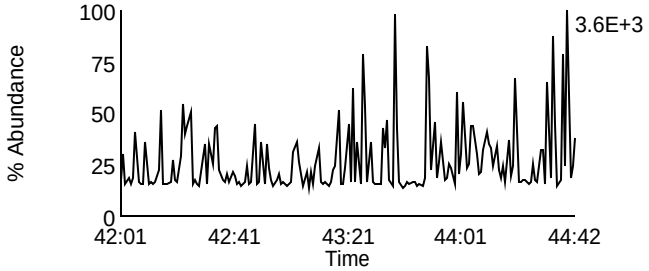


Homologue Group: Octas

Data File Name: F140307A_13
Date Acquired: 3/7/2014
Sample Description: SAMP 10258392024 - SMT WI

Lab Sample ID: 10258392024
Client Sample ID: MAK115L
Instrument: 10MSHR05 (F)

Data File: F140307A_13 G5 C4 - 441.7428
SAMP 10258392024 - SMT WI



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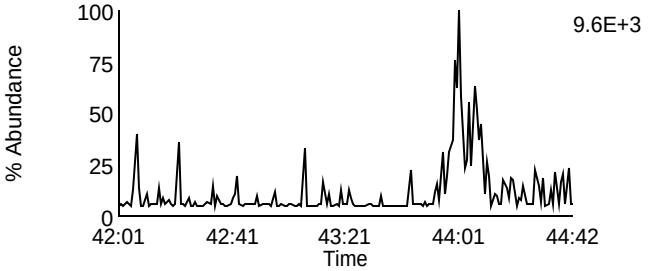
SAMP 10258392024 - SMT WI



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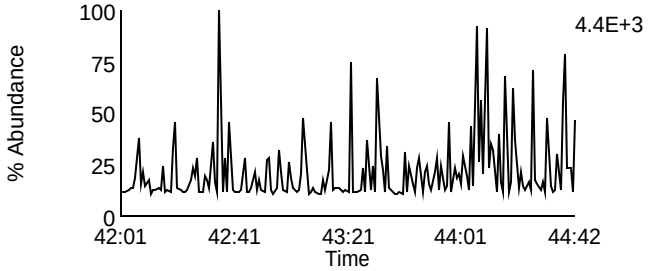
SAMP 10258392024 - SMT WI



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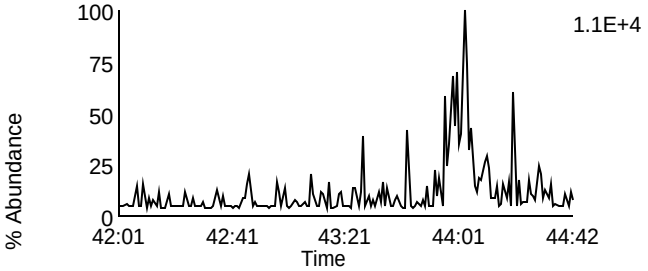
SAMP 10258392024 - SMT WI



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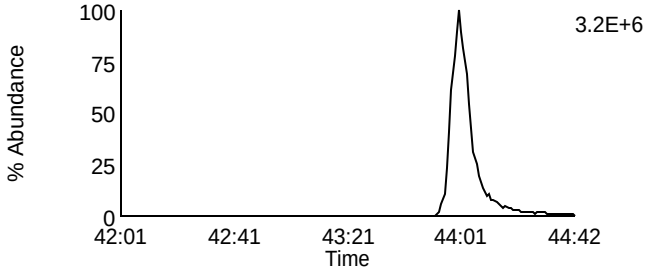
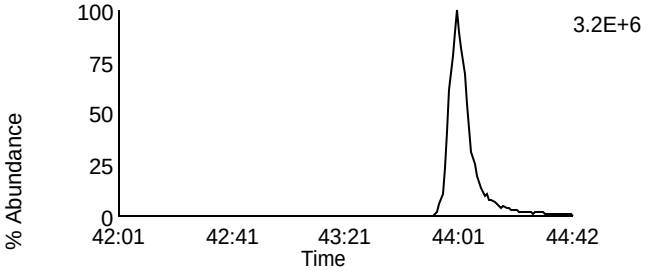
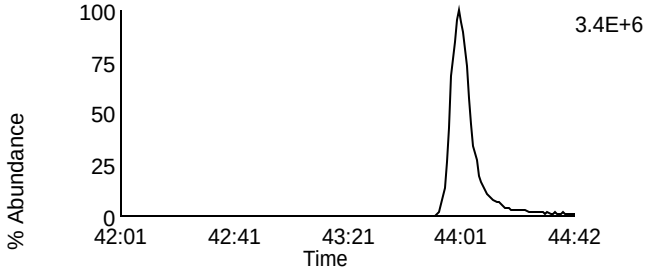
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G5 C11 - 469.7779
SAMP 10258392024 - SMT WI



Data File: F140307A_13 G5 C12 - 471.7749
SAMP 10258392024 - SMT WI



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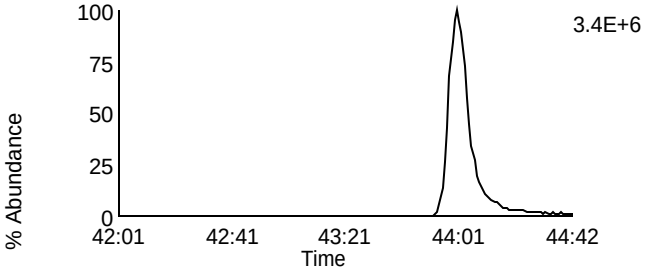
SAMP 10258392024 - SMT WI



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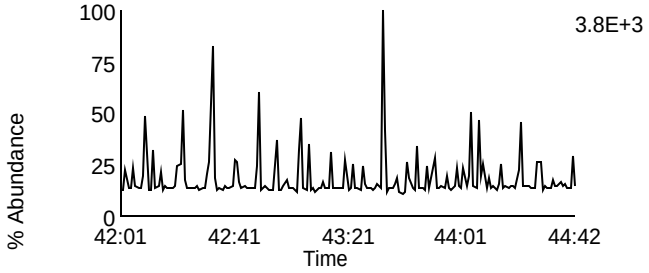
SAMP 10258392024 - SMT WI



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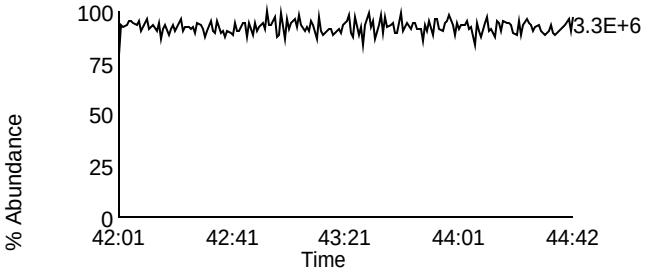
SAMP 10258392024 - SMT WI



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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK101O	Injected By	BAL
Lab ID	10258392001	Instrument ID	10MSHR05 (F)
Filename	F140301B_05	GC Column ID	USD331524H
Analyzed	03/01/2014 15:24	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		20:17	7.37e7	9.56e7	9.93e6	1.30e7	7.586e3	7.889e3	0.77	
2,3,7,8-TCDF		20:17	4.70e4	5.63e4	5.31e3	1.05e4	8.533e2	1.309e3	0.83	E
Other TCDF	1	19:19	2.54e4	3.76e4					0.68	
	2	17:55	1.15e4	1.57e4					0.73	
	3	17:19	1.03e4	1.30e4					0.80	
	4	16:52	3.61e4	4.41e4					0.82	
Ethers	1	20:17	4.70e4	5.63e4					0.83	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	20:26	6.75e7	8.66e7	9.35e6	1.18e7	4.200e3	1.640e3	0.78	
2,3,7,8-TCDD-13C	21:18	6.33e7	8.25e7	7.72e6	9.97e6	1.079e4	6.194e3	0.77	
2,3,7,8-TCDD-37Cl4	21:20	1.47e7		1.81e6		2.388e3	-----		
2,3,7,8-TCDD	21:20	ND	ND	ND	ND	1.060e3	1.291e3		

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		28:16	8.70e7	5.58e7	7.23e6	4.60e6	5.074e4	1.752e3	1.56	
2,3,4,7,8-PeCDF-13C		30:37	8.21e7	5.25e7	9.56e6	5.93e6	1.108e4	1.917e4	1.56	
1,2,3,7,8-PeCDF		28:16	1.83e4	1.02e4	2.86e3	2.37e3	1.236e3	9.781e2	1.80	I
2,3,4,7,8-PeCDF		30:39	2.87e4	1.66e4	6.27e3	3.87e3	1.403e3	8.163e2	1.73	
Other PeCDF	1	32:25	1.83e4	1.33e4					1.38	

Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		31:12	7.06e7	4.55e7	7.84e6	5.18e6	1.999e3	5.569e3	1.55	
1,2,3,7,8-PeCDD		31:15	ND	ND	ND	ND	9.159e2	1.352e3		
Other PeCDD	1	25:59	1.19e4	1.79e4					0.67	

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	35:30	3.33e7	6.39e7	5.99e6	1.10e7	1.993e3	2.975e3	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK101O	Injected By	BAL
Lab ID	10258392001	Instrument ID	10MSHR05 (F)
Filename	F140301B_05	GC Column ID	USD331524H
Analyzed	03/01/2014 15:24	ICAL ID	F131125

1,2,3,6,7,8-HxCDF-13C	35:39	4.31e7	8.37e7	6.91e6	1.36e7	1.993e3	1.833e3	0.51	
2,3,4,6,7,8-HxCDF-13C	36:29	3.76e7	7.40e7	6.89e6	1.29e7	6.129e2	1.886e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:32	3.33e7	6.54e7	5.89e6	1.12e7	2.193e4	1.054e4	0.51	
1,2,3,4,7,8-HxCDF	35:30	1.98e4	1.98e4	5.79e3	5.38e3	1.168e3	9.080e2	1.00	I
1,2,3,6,7,8-HxCDF	35:42	2.05e4	1.59e4	6.09e3	3.36e3	1.307e3	1.182e3	1.29	
2,3,4,6,7,8-HxCDF	36:29	2.45e4	2.16e4	8.29e3	4.47e3	1.214e3	1.152e3	1.14	
1,2,3,7,8,9-HxCDF	37:34	1.65e4	1.84e4	3.34e3	3.37e3	1.226e3	1.059e3	0.89	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	36:40	4.91e7	3.86e7	9.75e6	7.68e6	5.294e3	1.570e3	1.27	
1,2,3,6,7,8-HxCDD-13C	36:48	5.91e7	4.64e7	9.75e6	7.86e6	1.471e3	5.617e3	1.27	
1,2,3,7,8,9-HxCDD-13C	37:08	6.59e7	5.34e7	1.14e7	9.08e6	1.294e4	1.710e4	1.23	
1,2,3,4,7,8-HxCDD	36:41	6.23e3	4.89e3	2.12e3	1.66e3	1.325e3	1.250e3	1.27	
1,2,3,6,7,8-HxCDD	36:49	2.24e4	1.95e4	9.39e3	6.78e3	1.140e3	1.289e3	1.15	
1,2,3,7,8,9-HxCDD	37:10	1.51e4	1.33e4	4.32e3	5.78e3	1.306e3	1.015e3	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	39:24	3.41e7	7.67e7	5.90e6	1.35e7	7.994e3	6.454e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:15	2.49e7	5.64e7	4.63e6	1.03e7	3.346e3	5.804e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:24	3.48e4	3.15e4	7.72e3	9.11e3	1.717e3	1.350e3	1.11	
1,2,3,4,7,8,9-HpCDF	41:16	3.19e4	3.05e4	1.04e4	9.45e3	1.481e3	1.240e3	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	40:43	4.76e7	4.49e7	8.27e6	7.66e6	4.158e4	3.908e3	1.06	
1,2,3,4,6,7,8-HpCDD	40:45	4.89e4	4.24e4	1.10e4	1.17e4	1.359e3	9.643e2	1.15	
Other HpCDD 1	39:50	5.70e4	5.60e4					1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:17	5.83e4	8.27e4	9.17e3	1.26e4	1.684e3	2.213e3	0.70	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code

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Client Name	PASI Wisconsin		
Client ID	MAK101O	Injected By	BAL
Lab ID	10258392001	Instrument ID	10MSHR05 (F)
Filename	F140301B_05	GC Column ID	USD331524H
Analyzed	03/01/2014 15:24	ICAL ID	F131125

OCDD-13C	44:07	6.69e7	7.51e7	8.46e6	9.53e6	6.634e1	5.795e1	0.89	
OCDD	44:10	9.75e4	1.64e5	1.42e4	2.53e4	1.933e3	2.888e3	0.59	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK102O	Injected By	BAL
Lab ID	10258392002	Instrument ID	10MSHR05 (F)
Filename	F140301B_06	GC Column ID	USD331524H
Analyzed	03/01/2014 16:11	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		20:19	7.44e7	9.54e7	9.62e6	1.24e7	1.507e4	1.112e4	0.78	
2,3,7,8-TCDF		20:22	3.92e4	5.29e4	5.71e3	1.43e4	1.095e3	1.740e3	0.74	E
Other TCDF	1	19:22	2.02e4	2.31e4					0.87	
	2	17:55	1.50e4	1.75e4					0.86	
	3	16:54	3.90e4	4.69e4					0.83	
Ethers	1	20:22	3.92e4	5.29e4					0.74	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		20:27	6.69e7	8.48e7	9.04e6	1.16e7	5.046e3	9.915e3	0.79	
2,3,7,8-TCDD-13C		21:20	6.45e7	8.33e7	7.91e6	1.01e7	1.295e4	9.683e3	0.77	
2,3,7,8-TCDD-37Cl4		21:22	1.47e7		1.88e6		2.703e3	-----		
2,3,7,8-TCDD		21:22	ND	ND	ND	ND	1.617e3	9.930e2		
Other TCDD	1	17:31	5.23e4	8.09e4					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	28:18	8.67e7	5.50e7	7.14e6	4.50e6	2.886e3	2.863e4	1.58	
2,3,4,7,8-PeCDF-13C	30:39	8.26e7	5.33e7	9.40e6	5.99e6	7.785e3	1.372e4	1.55	
1,2,3,7,8-PeCDF	28:19	1.22e4	1.25e4	3.33e3	2.03e3	1.108e3	9.608e2	0.98	I
2,3,4,7,8-PeCDF	30:41	2.03e4	1.27e4	5.05e3	3.26e3	8.193e2	8.703e2	1.59	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:14	7.06e7	4.49e7	7.66e6	5.28e6	9.863e2	4.752e3	1.57	
1,2,3,7,8-PeCDD	31:14	1.26e4	8.03e3	2.00e4	2.69e3	6.997e2	1.093e3	1.57	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	35:31	3.25e7	6.26e7	5.75e6	1.09e7	5.482e3	4.180e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:40	4.30e7	8.21e7	6.74e6	1.28e7	1.126e3	1.533e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:30	3.67e7	7.08e7	6.56e6	1.25e7	1.248e3	9.993e2	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK102O	Injected By	BAL
Lab ID	10258392002	Instrument ID	10MSHR05 (F)
Filename	F140301B_06	GC Column ID	USD331524H
Analyzed	03/01/2014 16:11	ICAL ID	F131125

1,2,3,7,8,9-HxCDF-13C	37:33	3.24e7	6.23e7	5.55e6	1.06e7	9.202e3	1.955e4	0.52	
1,2,3,4,7,8-HxCDF	35:32	ND	ND	ND	ND	1.524e3	1.641e3		
1,2,3,6,7,8-HxCDF	35:41	ND	ND	ND	ND	1.537e3	1.798e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.662e3	1.677e3		
1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	1.508e3	1.258e3		

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	36:41	4.67e7	3.75e7	9.47e6	7.60e6	7.570e3	7.978e3	1.25	
1,2,3,6,7,8-HxCDD-13C	36:49	5.56e7	4.52e7	9.25e6	7.98e6	7.744e2	7.956e3	1.23	
1,2,3,7,8,9-HxCDD-13C	37:09	6.18e7	5.08e7	1.08e7	9.04e6	2.182e4	1.706e4	1.21	
1,2,3,4,7,8-HxCDD	36:43	9.22e3	7.68e3	2.31e3	2.12e3	7.981e2	1.254e3	1.20	
1,2,3,6,7,8-HxCDD	36:49	1.06e4	1.06e4	2.38e3	2.38e3	7.778e2	1.149e3	1.00	I
1,2,3,7,8,9-HxCDD	37:13	1.22e4	1.47e4	2.84e3	3.60e3	8.999e2	1.176e3	0.83	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	39:25	3.10e7	7.06e7	5.38e6	1.20e7	1.608e4	1.055e5	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:17	2.33e7	5.29e7	4.19e6	8.70e6	2.182e3	6.146e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:26	2.14e4	1.51e4	6.77e3	3.77e3	1.330e3	9.135e2	1.42	I
1,2,3,4,7,8,9-HpCDF	41:18	1.37e4	2.12e4	3.74e3	7.92e3	1.110e3	1.130e3	0.65	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	40:45	4.45e7	4.02e7	7.66e6	7.12e6	7.850e3	2.833e4	1.11	
1,2,3,4,6,7,8-HpCDD	40:47	4.77e4	5.60e4	1.09e4	1.53e4	1.212e3	1.315e3	0.85	I
Other HpCDD 1	39:51	4.06e4	3.65e4					1.11	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:21	2.88e4	3.91e4	7.03e3	5.76e3	1.549e3	2.202e3	0.73	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:12	6.12e7	6.77e7	7.62e6	8.50e6	8.611e2	1.647e3	0.90	
OCDD	44:13	8.18e4	1.41e5	1.23e4	2.04e4	1.744e3	4.265e3	0.58	I

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Client Name	PASI Wisconsin		
Client ID	MAK102O	Injected By	BAL
Lab ID	10258392002	Instrument ID	10MSHR05 (F)
Filename	F140301B_06	GC Column ID	USD331524H
Analyzed	03/01/2014 16:11	ICAL ID	F131125

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK103O	Injected By	BAL
Lab ID	10258392003	Instrument ID	10MSHR05 (F)
Filename	F140301B_07	GC Column ID	USD331524H
Analyzed	03/01/2014 16:58	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		20:18	6.90e7	8.89e7	8.99e6	1.16e7	2.229e4	6.085e3	0.78	
2,3,7,8-TCDF		20:21	4.27e4	4.92e4	6.68e3	5.05e3	1.154e3	1.551e3	0.87	E
Other TCDF	1	19:22	2.89e4	4.22e4					0.69	
	2	18:53	2.83e4	3.92e4					0.72	
Ethers	1	20:21	4.27e4	4.92e4					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	20:27	6.63e7	8.33e7	9.37e6	1.18e7	2.386e3	8.339e3	0.80	
2,3,7,8-TCDD-13C	21:20	6.07e7	7.56e7	7.41e6	9.65e6	1.002e4	1.107e4	0.80	
2,3,7,8-TCDD-37Cl4	21:21	1.41e7		1.80e6		2.620e3	-----		
2,3,7,8-TCDD	21:22	ND	ND	ND	ND	1.045e3	1.435e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:17	8.24e7	5.17e7	6.73e6	4.24e6	3.886e4	2.436e4	1.60	
2,3,4,7,8-PeCDF-13C	30:37	7.77e7	4.94e7	8.92e6	5.60e6	8.375e3	1.283e4	1.57	
1,2,3,7,8-PeCDF	28:20	ND	ND	ND	ND	1.507e3	6.998e2		
2,3,4,7,8-PeCDF	30:39	2.06e4	7.23e3	1.03e4	2.25e3	1.374e3	6.372e2	2.84	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	31:14	6.59e7	4.23e7	7.72e6	5.08e6	2.092e3	2.796e3	1.56	
1,2,3,7,8-PeCDD	31:17	ND	ND	ND	ND	7.586e2	8.034e2		

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	35:30	2.97e7	5.78e7	5.48e6	1.03e7	1.101e3	6.125e4	0.51	
1,2,3,6,7,8-HxCDF-13C	35:40	3.89e7	7.48e7	6.42e6	1.21e7	8.474e3	6.292e4	0.52	
2,3,4,6,7,8-HxCDF-13C	36:29	3.39e7	6.57e7	5.97e6	1.14e7	1.082e3	8.709e2	0.52	
1,2,3,7,8,9-HxCDF-13C	37:33	3.05e7	5.78e7	5.24e6	1.01e7	2.387e4	3.663e4	0.53	
1,2,3,4,7,8-HxCDF	35:31	ND	ND	ND	ND	1.430e3	1.364e3		

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Client Name	PASI Wisconsin		
Client ID	MAK103O	Injected By	BAL
Lab ID	10258392003	Instrument ID	10MSHR05 (F)
Filename	F140301B_07	GC Column ID	USD331524H
Analyzed	03/01/2014 16:58	ICAL ID	F131125

1,2,3,6,7,8-HxCDF	35:41	ND	ND	ND	ND	1.399e3	1.598e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.249e3	1.580e3		
1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	1.140e3	1.405e3		

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	36:42	4.45e7	3.56e7	8.51e6	6.75e6	1.324e4	7.454e3	1.25	
1,2,3,6,7,8-HxCDD-13C	36:49	5.20e7	4.07e7	8.85e6	7.10e6	1.202e3	8.697e3	1.28	
1,2,3,7,8,9-HxCDD-13C	37:09	6.09e7	4.94e7	1.07e7	8.52e6	7.281e3	1.946e4	1.23	
1,2,3,4,7,8-HxCDD	36:43	ND	ND	ND	ND	1.129e3	1.178e3		
1,2,3,6,7,8-HxCDD	36:50	ND	ND	ND	ND	1.158e3	1.136e3		
1,2,3,7,8,9-HxCDD	37:10	ND	ND	ND	ND	1.246e3	1.178e3		

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	39:25	2.79e7	6.27e7	4.83e6	1.11e7	2.920e4	8.517e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:17	2.23e7	5.01e7	3.80e6	8.52e6	2.628e3	7.688e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:25	1.90e4	2.10e4	6.81e3	5.95e3	1.649e3	1.369e3	0.90	
1,2,3,4,7,8,9-HpCDF	41:16	9.28e3	1.15e4	2.73e3	4.95e3	1.617e3	1.159e3	0.81	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	40:45	4.04e7	3.82e7	6.90e6	6.60e6	4.739e3	3.187e4	1.06	
1,2,3,4,6,7,8-HpCDD	40:44	2.64e4	3.00e4	4.28e3	6.05e3	1.422e3	1.413e3	0.88	
Other HpCDD 1	39:51	2.67e4	2.44e4					1.10	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:21	ND	ND	ND	ND	1.781e3	2.338e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:12	5.53e7	6.24e7	7.03e6	7.62e6	9.773e2	7.122e2	0.89	
OCDD	44:13	1.05e5	8.58e4	1.92e4	1.19e4	2.478e3	4.599e3	1.22	I

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Client Name	PASI Wisconsin		
Client ID	MAK103O	Injected By	BAL
Lab ID	10258392003	Instrument ID	10MSHR05 (F)
Filename	F140301B_07	GC Column ID	USD331524H
Analyzed	03/01/2014 16:58	ICAL ID	F131125

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK104O	Injected By	BAL
Lab ID	10258392004	Instrument ID	10MSHR05 (F)
Filename	F140301B_08	GC Column ID	USD331524H
Analyzed	03/01/2014 17:44	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		20:19	7.10e7	9.34e7	9.35e6	1.20e7	2.113e4	1.014e4	0.76	
2,3,7,8-TCDF		20:20	4.58e4	5.70e4	8.25e3	8.85e3	1.147e3	1.234e3	0.80	
Other TCDF	1	22:60	1.53e4	2.31e4					0.66	
	2	21:52	1.62e4	2.13e4					0.76	
	3	18:53	2.33e4	3.15e4					0.74	
	4	16:56	1.99e4	2.88e4					0.69	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	20:27	6.94e7	8.83e7	9.66e6	1.24e7	3.494e3	1.781e3	0.79	
2,3,7,8-TCDD-13C	21:20	6.13e7	7.96e7	7.53e6	9.59e6	9.376e3	1.473e4	0.77	
2,3,7,8-TCDD-37Cl4	21:21	1.48e7		1.78e6		4.256e3	-----		
2,3,7,8-TCDD	21:22	ND	ND	ND	ND	9.472e2	1.817e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:18	8.53e7	5.44e7	6.88e6	4.55e6	4.156e4	2.856e4	1.57	
2,3,4,7,8-PeCDF-13C	30:37	7.91e7	5.14e7	9.20e6	5.86e6	1.231e4	6.379e3	1.54	
1,2,3,7,8-PeCDF	28:21	ND	ND	ND	ND	1.279e3	7.810e2		
2,3,4,7,8-PeCDF	30:38	1.48e4	1.09e4	4.19e3	2.68e3	1.465e3	9.610e2	1.36	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:14	6.71e7	4.34e7	7.92e6	5.00e6	7.216e3	4.095e3	1.55	
1,2,3,7,8-PeCDD	31:17	ND	ND	ND	ND	9.381e2	1.362e3		

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	35:31	3.11e7	6.08e7	5.58e6	1.08e7	2.500e3	4.829e4	0.51	
1,2,3,6,7,8-HxCDF-13C	35:40	4.00e7	7.70e7	6.54e6	1.26e7	2.500e3	1.523e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:30	3.44e7	6.84e7	6.45e6	1.24e7	5.447e2	2.269e3	0.50	
1,2,3,7,8,9-HxCDF-13C	37:33	3.03e7	5.99e7	5.25e6	1.02e7	6.197e3	4.148e4	0.51	
1,2,3,4,7,8-HxCDF	35:32	ND	ND	ND	ND	1.514e3	1.274e3		

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Client Name	PASI Wisconsin		
Client ID	MAK104O	Injected By	BAL
Lab ID	10258392004	Instrument ID	10MSHR05 (F)
Filename	F140301B_08	GC Column ID	USD331524H
Analyzed	03/01/2014 17:44	ICAL ID	F131125

1,2,3,6,7,8-HxCDF	35:41	ND	ND	ND	ND	1.405e3	1.563e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.695e3	1.304e3		
1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	1.482e3	1.098e3		

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	36:42	4.43e7	3.54e7	8.87e6	6.94e6	1.144e4	7.880e3	1.25	
1,2,3,6,7,8-HxCDD-13C	36:49	5.35e7	4.37e7	8.95e6	7.26e6	2.088e3	1.958e3	1.22	
1,2,3,7,8,9-HxCDD-13C	37:09	6.31e7	5.09e7	1.08e7	8.94e6	5.868e4	2.654e4	1.24	
1,2,3,4,7,8-HxCDD	36:43	ND	ND	ND	ND	1.065e3	8.608e2		
1,2,3,6,7,8-HxCDD	36:51	ND	ND	ND	ND	1.094e3	8.103e2		
1,2,3,7,8,9-HxCDD	37:10	ND	ND	ND	ND	1.080e3	8.122e2		

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	39:26	2.84e7	6.35e7	4.78e6	1.10e7	6.842e3	1.167e5	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:18	2.19e7	5.03e7	3.84e6	8.55e6	3.135e3	6.728e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:28	1.84e4	1.54e4	3.81e3	3.69e3	1.446e3	9.210e2	1.20	
1,2,3,4,7,8,9-HpCDF	41:18	1.56e4	1.49e4	2.25e3	2.34e3	1.496e3	9.036e2	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	40:45	4.18e7	3.77e7	7.22e6	6.51e6	1.794e4	1.262e3	1.11	
1,2,3,4,6,7,8-HpCDD	40:45	3.08e4	2.95e4	7.12e3	7.42e3	1.239e3	1.109e3	1.05	
Other HpCDD 1	39:51	3.07e4	3.37e4					0.91	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:22	ND	ND	ND	ND	1.841e3	2.269e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:12	5.66e7	6.40e7	7.03e6	7.72e6	7.771e2	8.014e2	0.88	
OCDD	44:13	1.19e5	1.23e5	1.68e4	1.72e4	2.769e3	3.318e3	0.97	

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Client Name	PASI Wisconsin		
Client ID	MAK104O	Injected By	BAL
Lab ID	10258392004	Instrument ID	10MSHR05 (F)
Filename	F140301B_08	GC Column ID	USD331524H
Analyzed	03/01/2014 17:44	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	MAK105O	Injected By	BAL
Lab ID	10258392005	Instrument ID	10MSHR05 (F)
Filename	F140301B_09	GC Column ID	USD331524H
Analyzed	03/01/2014 18:31	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		20:19	6.68e7	8.56e7	8.71e6	1.12e7	6.948e3	1.338e4	0.78	
2,3,7,8-TCDF		20:20	4.38e4	5.21e4	5.82e3	1.02e4	1.002e3	1.559e3	0.84	
Other TCDF	1	16:55	1.88e4	2.54e4					0.74	
	2	16:28	4.51e3	5.09e3					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	20:28	6.26e7	7.96e7	8.73e6	1.11e7	2.883e3	1.158e4	0.79	
2,3,7,8-TCDD-13C	21:21	5.69e7	7.19e7	7.20e6	8.88e6	8.279e3	6.858e3	0.79	
2,3,7,8-TCDD-37Cl4	21:22	1.36e7		1.69e6		2.480e3	-----		
2,3,7,8-TCDD	21:23	ND	ND	ND	ND	1.053e3	1.101e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:18	7.99e7	4.98e7	6.47e6	4.13e6	4.648e3	4.247e4	1.60	
2,3,4,7,8-PeCDF-13C	30:39	7.42e7	4.77e7	8.42e6	5.41e6	7.144e3	8.269e3	1.55	
1,2,3,7,8-PeCDF	28:21	ND	ND	ND	ND	9.973e2	9.759e2		
2,3,4,7,8-PeCDF	30:43	1.27e4	1.56e4	3.11e3	3.95e3	1.062e3	7.437e2	0.81	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	31:15	6.46e7	4.04e7	7.29e6	4.67e6	4.899e3	6.385e3	1.60	
1,2,3,7,8-PeCDD	31:17	ND	ND	ND	ND	9.224e2	9.454e2		

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	35:31	2.82e7	5.51e7	5.13e6	9.99e6	2.005e3	3.661e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:41	3.78e7	7.44e7	6.31e6	1.20e7	2.002e3	1.257e3	0.51	
2,3,4,6,7,8-HxCDF-13C	36:30	3.23e7	6.33e7	6.02e6	1.14e7	6.547e2	1.232e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:33	2.86e7	5.54e7	4.98e6	9.62e6	1.254e4	2.239e4	0.52	
1,2,3,4,7,8-HxCDF	35:32	ND	ND	ND	ND	1.259e3	1.378e3		
1,2,3,6,7,8-HxCDF	35:42	ND	ND	ND	ND	1.385e3	1.289e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.524e3	1.319e3		

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Client Name	PASI Wisconsin		
Client ID	MAK105O	Injected By	BAL
Lab ID	10258392005	Instrument ID	10MSHR05 (F)
Filename	F140301B_09	GC Column ID	USD331524H
Analyzed	03/01/2014 18:31	ICAL ID	F131125

1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	1.524e3	1.388e3		

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	36:42	4.22e7	3.29e7	8.45e6	6.42e6	1.659e3	4.919e3	1.28	
1,2,3,6,7,8-HxCDD-13C	36:49	5.04e7	3.97e7	8.22e6	6.73e6	1.335e3	2.011e3	1.27	
1,2,3,7,8,9-HxCDD-13C	37:09	5.84e7	4.63e7	1.01e7	8.09e6	3.543e4	1.906e4	1.26	
1,2,3,4,7,8-HxCDD	36:43	ND	ND	ND	ND	1.419e3	1.102e3		
1,2,3,6,7,8-HxCDD	36:51	1.55e4	1.19e4	4.89e3	3.74e3	1.300e3	1.032e3	1.30	
1,2,3,7,8,9-HxCDD	37:10	ND	ND	ND	ND	1.211e3	1.038e3		

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	39:26	2.75e7	6.00e7	4.62e6	1.05e7	4.129e3	1.452e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:21	2.11e7	4.72e7	3.62e6	7.92e6	5.152e3	9.125e3	0.45	
1,2,3,4,6,7,8-HpCDF	39:27	ND	ND	ND	ND	1.286e3	1.235e3		
1,2,3,4,7,8,9-HpCDF	41:22	ND	ND	ND	ND	1.431e3	1.439e3		

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	40:48	3.90e7	3.48e7	6.77e6	5.96e6	1.400e4	3.403e4	1.12	
1,2,3,4,6,7,8-HpCDD	40:50	2.93e4	2.46e4	1.05e4	5.39e3	1.498e3	1.101e3	1.19	
Other HpCDD 1	39:51	3.01e4	3.40e4					0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:24	1.64e4	1.32e4	7.31e3	4.09e3	1.887e3	1.426e3	1.25	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:16	4.95e7	5.58e7	6.16e6	6.79e6	2.563e2	3.009e2	0.89	
OCDD	44:17	7.39e4	8.79e4	1.31e4	1.21e4	2.319e3	4.572e3	0.84	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK106O	Injected By	BAL
Lab ID	10258392006	Instrument ID	10MSHR05 (F)
Filename	F140301B_10	GC Column ID	USD331524H
Analyzed	03/01/2014 19:18	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		20:17	7.06e7	9.10e7	9.45e6	1.24e7	9.126e3	1.489e4	0.78	
2,3,7,8-TCDF		20:19	3.60e4	5.45e4	5.79e3	9.44e3	1.127e3	1.241e3	0.66	E
Other TCDF	1	17:33	1.46e4	1.74e4					0.84	
	2	17:55	1.03e4	1.56e4					0.66	
	3	18:51	2.65e4	3.17e4					0.84	
Ethers	1	20:19	3.60e4	5.45e4					0.66	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	20:26	6.76e7	8.61e7	9.34e6	1.20e7	1.911e3	1.120e4	0.78	
2,3,7,8-TCDD-13C	21:19	6.12e7	7.79e7	7.58e6	9.25e6	1.071e4	7.710e3	0.79	
2,3,7,8-TCDD-37Cl4	21:19	1.39e7		1.69e6		4.023e3	-----		
2,3,7,8-TCDD	21:21	ND	ND	ND	ND	1.089e3	9.488e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:15	8.65e7	5.52e7	6.91e6	4.37e6	8.283e4	5.326e4	1.57	
2,3,4,7,8-PeCDF-13C	30:36	8.02e7	5.13e7	8.90e6	5.69e6	2.959e4	1.249e4	1.56	
1,2,3,7,8-PeCDF	28:17	ND	ND	ND	ND	9.274e2	7.746e2		
2,3,4,7,8-PeCDF	30:38	ND	ND	ND	ND	1.034e3	6.784e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:12	6.88e7	4.41e7	7.89e6	5.20e6	6.558e3	4.541e3	1.56	
1,2,3,7,8-PeCDD	31:15	ND	ND	ND	ND	6.661e2	1.119e3		

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	35:30	3.14e7	6.08e7	5.64e6	1.10e7	8.999e2	1.944e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:40	4.28e7	8.18e7	6.73e6	1.29e7	9.988e3	3.039e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:29	3.51e7	6.82e7	6.15e6	1.17e7	1.502e3	2.596e3	0.52	
1,2,3,7,8,9-HxCDF-13C	37:33	3.08e7	6.00e7	5.43e6	1.05e7	1.426e4	2.115e4	0.51	

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Client Name	PASI Wisconsin		
Client ID	MAK106O	Injected By	BAL
Lab ID	10258392006	Instrument ID	10MSHR05 (F)
Filename	F140301B_10	GC Column ID	USD331524H
Analyzed	03/01/2014 19:18	ICAL ID	F131125

1,2,3,4,7,8-HxCDF	35:31	ND	ND	ND	ND	1.243e3	1.435e3		
1,2,3,6,7,8-HxCDF	35:41	ND	ND	ND	ND	1.222e3	1.140e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.222e3	1.220e3		
1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	1.351e3	1.192e3		

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	36:41	4.71e7	3.75e7	8.89e6	7.14e6	2.042e4	1.910e4	1.26	
1,2,3,6,7,8-HxCDD-13C	36:49	5.54e7	4.33e7	9.19e6	7.43e6	2.849e3	2.891e3	1.28	
1,2,3,7,8,9-HxCDD-13C	37:09	6.48e7	5.32e7	1.12e7	9.01e6	1.472e4	2.728e4	1.22	
1,2,3,4,7,8-HxCDD	36:42	ND	ND	ND	ND	1.169e3	8.832e2		
1,2,3,6,7,8-HxCDD	36:50	ND	ND	ND	ND	1.104e3	8.429e2		
1,2,3,7,8,9-HxCDD	37:10	ND	ND	ND	ND	1.238e3	7.717e2		

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	39:26	3.16e7	7.03e7	5.33e6	1.22e7	8.160e3	8.333e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:17	2.31e7	5.22e7	4.00e6	9.10e6	4.126e3	8.568e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:28	1.85e4	1.57e4	4.99e3	5.00e3	1.298e3	1.281e3	1.18	
1,2,3,4,7,8,9-HpCDF	41:18	ND	ND	ND	ND	1.214e3	1.058e3		

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	40:46	4.50e7	4.14e7	7.60e6	7.36e6	7.643e4	3.576e4	1.09	
1,2,3,4,6,7,8-HpCDD	40:45	4.14e4	4.35e4	8.74e3	1.09e4	1.086e3	1.345e3	0.95	
Other HpCDD 1	39:51	3.20e4	3.36e4					0.95	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:19	ND	ND	ND	ND	1.551e3	2.070e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:09	6.44e7	7.18e7	8.00e6	8.84e6	7.098e2	1.116e3	0.90	
OCDD	44:09	8.73e4	9.66e4	1.97e4	2.13e4	1.566e3	4.613e3	0.90	

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Client Name	PASI Wisconsin		
Client ID	MAK106O	Injected By	BAL
Lab ID	10258392006	Instrument ID	10MSHR05 (F)
Filename	F140301B_10	GC Column ID	USD331524H
Analyzed	03/01/2014 19:18	ICAL ID	F131125

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK107O	Injected By	BAL
Lab ID	10258392007	Instrument ID	10MSHR05 (F)
Filename	F140301B_11	GC Column ID	USD331524H
Analyzed	03/01/2014 20:05	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		20:20	4.12e7	5.29e7	5.37e6	6.84e6	1.303e4	6.086e3	0.78	
2,3,7,8-TCDF		20:22	1.67e4	3.16e4	3.07e3	5.96e3	9.653e2	1.113e3	0.53	I
Other TCDF	1	18:55	1.66e4	2.26e4					0.73	
	2	16:56	2.38e4	3.24e4					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	20:28	4.13e7	5.25e7	5.67e6	7.07e6	2.696e3	1.997e3	0.79	
2,3,7,8-TCDD-13C	21:20	3.58e7	4.60e7	4.30e6	5.63e6	5.646e3	6.350e3	0.78	
2,3,7,8-TCDD-37Cl4	21:23	8.19e6		1.03e6		3.293e3	-----		
2,3,7,8-TCDD	21:22	ND	ND	ND	ND	9.903e2	8.956e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:18	4.97e7	3.02e7	4.23e6	2.64e6	1.851e4	1.862e3	1.65	
2,3,4,7,8-PeCDF-13C	30:39	4.62e7	2.96e7	5.24e6	3.38e6	6.366e3	6.849e3	1.56	
1,2,3,7,8-PeCDF	28:21	ND	ND	ND	ND	8.238e2	7.162e2		
2,3,4,7,8-PeCDF	30:40	ND	ND	ND	ND	8.353e2	7.336e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:14	4.01e7	2.51e7	4.81e6	3.03e6	4.625e3	4.106e3	1.60	
1,2,3,7,8-PeCDD	31:17	ND	ND	ND	ND	6.040e2	6.545e2		

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	35:30	1.84e7	3.60e7	3.35e6	6.56e6	8.878e2	2.224e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:40	2.39e7	4.63e7	3.99e6	7.68e6	7.109e2	2.224e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:30	2.07e7	4.05e7	3.87e6	7.28e6	6.857e2	7.443e2	0.51	
1,2,3,7,8,9-HxCDF-13C	37:33	1.86e7	3.71e7	3.32e6	6.32e6	5.709e3	1.238e4	0.50	
1,2,3,4,7,8-HxCDF	35:31	ND	ND	ND	ND	9.746e2	1.293e3		
1,2,3,6,7,8-HxCDF	35:41	ND	ND	ND	ND	1.057e3	1.020e3		
2,3,4,6,7,8-HxCDF	36:30	ND	ND	ND	ND	1.019e3	9.537e2		

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Client Name	PASI Wisconsin		
Client ID	MAK107O	Injected By	BAL
Lab ID	10258392007	Instrument ID	10MSHR05 (F)
Filename	F140301B_11	GC Column ID	USD331524H
Analyzed	03/01/2014 20:05	ICAL ID	F131125

1,2,3,7,8,9-HxCDF	37:34	ND	ND	ND	ND	9.875e2	1.313e3		

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	36:42	2.67e7	2.17e7	5.49e6	4.35e6	7.051e3	3.330e3	1.23	
1,2,3,6,7,8-HxCDD-13C	36:49	3.29e7	2.54e7	5.71e6	4.47e6	1.261e3	8.125e2	1.29	
1,2,3,7,8,9-HxCDD-13C	37:09	3.92e7	3.25e7	7.06e6	5.66e6	9.136e3	1.703e4	1.21	
1,2,3,4,7,8-HxCDD	36:43	ND	ND	ND	ND	9.597e2	8.323e2		
1,2,3,6,7,8-HxCDD	36:50	ND	ND	ND	ND	1.012e3	7.924e2		
1,2,3,7,8,9-HxCDD	37:10	ND	ND	ND	ND	9.460e2	7.650e2		

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	39:25	1.80e7	4.12e7	3.08e6	7.12e6	1.971e4	1.226e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:17	1.41e7	3.18e7	2.45e6	5.47e6	6.010e3	7.167e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:25	7.83e3	1.42e4	2.84e3	6.09e3	1.048e3	9.082e2	0.55	I
1,2,3,4,7,8,9-HpCDF	41:15	7.42e3	3.90e3	3.69e3	2.15e3	1.104e3	1.166e3	1.90	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	40:44	2.65e7	2.45e7	4.73e6	4.34e6	2.496e4	2.825e3	1.08	
1,2,3,4,6,7,8-HpCDD	40:44	2.47e4	1.43e4	6.67e3	4.02e3	1.511e3	1.206e3	1.73	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:17	ND	ND	ND	ND	1.489e3	1.289e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:07	3.56e7	4.02e7	4.44e6	5.04e6	2.858e2	2.284e3	0.88	
OCDD	44:11	4.68e4	5.32e4	8.12e3	8.54e3	1.638e3	3.466e3	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK108O	Injected By	BAL
Lab ID	10258392008	Instrument ID	10MSHR05 (F)
Filename	F140301B_12	GC Column ID	USD331524H
Analyzed	03/01/2014 20:52	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		20:18	6.54e7	8.55e7	8.75e6	1.12e7	1.283e4	6.086e3	0.76	
2,3,7,8-TCDF		20:23	1.87e4	3.60e4	3.35e3	9.66e3	8.139e2	1.659e3	0.52	I
Other TCDF	1	18:55	2.70e4	3.09e4					0.88	
	2	17:19	1.36e4	1.74e4					0.78	
	3	16:53	3.39e4	3.84e4					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	20:26	6.26e7	7.99e7	8.91e6	1.13e7	3.375e3	2.814e3	0.78	
2,3,7,8-TCDD-13C	21:19	5.68e7	7.38e7	6.94e6	8.90e6	6.145e3	7.631e3	0.77	
2,3,7,8-TCDD-37Cl4	21:20	1.33e7		1.64e6		2.080e3	-----		
2,3,7,8-TCDD	21:21	ND	ND	ND	ND	8.237e2	1.001e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:16	7.95e7	5.07e7	6.38e6	4.05e6	4.570e4	2.183e3	1.57	
2,3,4,7,8-PeCDF-13C	30:36	7.46e7	4.78e7	7.98e6	5.29e6	9.908e3	1.264e4	1.56	
1,2,3,7,8-PeCDF	28:19	ND	ND	ND	ND	1.216e3	7.612e2		
2,3,4,7,8-PeCDF	30:38	ND	ND	ND	ND	1.020e3	6.205e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:12	6.43e7	4.12e7	7.16e6	4.66e6	6.216e3	1.933e3	1.56	
1,2,3,7,8-PeCDD	31:15	ND	ND	ND	ND	8.690e2	1.012e3		

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	35:30	3.00e7	5.83e7	5.35e6	1.01e7	1.465e3	2.465e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:39	3.87e7	7.52e7	6.16e6	1.17e7	1.571e3	1.085e3	0.51	
2,3,4,6,7,8-HxCDF-13C	36:28	3.35e7	6.52e7	5.89e6	1.11e7	1.030e3	1.986e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:32	3.07e7	6.02e7	5.30e6	1.04e7	7.505e3	2.131e4	0.51	
1,2,3,4,7,8-HxCDF	35:31	ND	ND	ND	ND	1.244e3	8.755e2		
1,2,3,6,7,8-HxCDF	35:40	ND	ND	ND	ND	9.550e2	9.872e2		

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Client Name	PASI Wisconsin		
Client ID	MAK108O	Injected By	BAL
Lab ID	10258392008	Instrument ID	10MSHR05 (F)
Filename	F140301B_12	GC Column ID	USD331524H
Analyzed	03/01/2014 20:52	ICAL ID	F131125

2,3,4,6,7,8-HxCDF	36:29	ND	ND	ND	ND	1.172e3	1.061e3
1,2,3,7,8,9-HxCDF	37:33	ND	ND	ND	ND	1.240e3	1.035e3

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	36:40	4.35e7	3.40e7	8.82e6	6.88e6	8.351e3	5.350e3	1.28	
1,2,3,6,7,8-HxCDD-13C	36:48	5.30e7	4.18e7	9.06e6	7.49e6	2.593e3	1.288e3	1.27	
1,2,3,7,8,9-HxCDD-13C	37:09	6.13e7	4.88e7	1.05e7	8.46e6	2.758e4	4.600e4	1.26	
1,2,3,4,7,8-HxCDD	36:41	ND	ND	ND	ND	1.237e3	1.092e3		
1,2,3,6,7,8-HxCDD	36:49	ND	ND	ND	ND	1.046e3	1.120e3		
1,2,3,7,8,9-HxCDD	37:09	9.72e3	6.96e3	3.58e3	2.36e3	1.147e3	9.568e2	1.40	
Other HxCDD 1	35:25	1.37e4	1.01e4					1.36	

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	39:25	3.01e7	6.69e7	4.91e6	1.12e7	2.094e4	8.187e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:16	2.33e7	5.25e7	4.09e6	8.90e6	3.487e3	6.643e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:25	1.35e4	1.50e4	5.53e3	3.57e3	1.411e3	9.974e2	0.90	
1,2,3,4,7,8,9-HpCDF	41:17	ND	ND	ND	ND	1.355e3	7.832e2		

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	40:44	4.56e7	4.13e7	8.08e6	7.33e6	4.784e4	5.593e4	1.10	
1,2,3,4,6,7,8-HpCDD	40:47	5.58e4	3.91e4	8.89e3	1.04e4	1.524e3	1.487e3	1.43	I
Other HpCDD 1	39:48	3.13e4	3.44e4					0.91	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:17	ND	ND	ND	ND	1.478e3	1.763e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:07	6.28e7	7.15e7	8.01e6	8.97e6	3.975e2	8.412e2	0.88	
OCDD	44:07	1.06e5	1.16e5	2.24e4	2.00e4	1.663e3	3.746e3	0.92	

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Client Name	PASI Wisconsin		
Client ID	MAK108O	Injected By	BAL
Lab ID	10258392008	Instrument ID	10MSHR05 (F)
Filename	F140301B_12	GC Column ID	USD331524H
Analyzed	03/01/2014 20:52	ICAL ID	F131125

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PCDD/PCDF Detected Peak List

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Client Name	PASI Wisconsin		
Client ID	MAK102C	Injected By	SMT
Lab ID	10258392009	Instrument ID	10MSHR06 (U)
Filename	U140307A_07	GC Column ID	USD397111H
Analyzed	03/07/2014 09:39	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	7.34e7	9.11e7	1.10e7	1.40e7	1.257e4	1.308e4	0.81	
2,3,7,8-TCDF	22:50	4.51e4	7.54e4	8.45e3	1.12e4	2.875e3	2.389e3	0.60	I
Other TCDF 1	18:53	6.61e4	8.67e4					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	23:09	8.16e7	1.00e8	1.27e7	1.61e7	1.233e4	2.641e3	0.81	
2,3,7,8-TCDD-13C	24:04	4.60e7	5.67e7	6.31e6	8.11e6	1.320e4	2.631e4	0.81	
2,3,7,8-TCDD-37Cl4	24:06	1.23e7		1.83e6		6.559e3	-----		
2,3,7,8-TCDD	24:07	ND	ND	ND	ND	1.415e3	1.776e3		

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	1.06e8	6.64e7	2.11e7	1.34e7	5.926e4	3.024e4	1.59	
2,3,4,7,8-PeCDF-13C	31:39	1.14e8	7.20e7	2.67e7	1.66e7	2.946e4	1.404e4	1.59	
1,2,3,7,8-PeCDF	30:25	ND	ND	ND	ND	2.056e3	1.311e3		
2,3,4,7,8-PeCDF	31:40	2.14e4	9.73e3	9.66e3	3.32e3	1.414e3	1.322e3	2.19	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	32:00	7.28e7	4.52e7	1.81e7	1.09e7	5.532e3	8.730e3	1.61	
1,2,3,7,8-PeCDD	32:01	1.78e4	1.33e4	7.48e4	6.08e3	1.248e3	1.755e3	1.34	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	34:40	4.81e7	9.21e7	1.57e7	3.02e7	2.953e3	4.295e3	0.52	
1,2,3,6,7,8-HxCDF-13C	34:47	6.67e7	1.25e8	1.89e7	3.56e7	2.953e3	4.295e3	0.53	
2,3,4,6,7,8-HxCDF-13C	35:17	5.74e7	1.07e8	1.64e7	3.16e7	2.667e3	4.024e3	0.53	
1,2,3,7,8,9-HxCDF-13C	36:01	4.61e7	8.84e7	1.22e7	2.40e7	3.458e4	9.157e4	0.52	
1,2,3,4,7,8-HxCDF	34:41	ND	ND	ND	ND	2.799e3	4.118e3		
1,2,3,6,7,8-HxCDF	34:48	1.29e4	1.57e4	4.02e3	7.12e3	3.060e3	3.631e3	0.82	I
2,3,4,6,7,8-HxCDF	35:19	1.96e4	2.50e4	9.24e3	9.98e3	2.884e3	4.440e3	0.79	I
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	2.957e3	4.112e3		

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Client Name	PASI Wisconsin		
Client ID	MAK102C	Injected By	SMT
Lab ID	10258392009	Instrument ID	10MSHR06 (U)
Filename	U140307A_07	GC Column ID	USD397111H
Analyzed	03/07/2014 09:39	ICAL ID	U140306

Other HxCDF	1	34:24	2.40e4	1.89e4					1.27	

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	35:26	5.36e7	4.17e7	2.00e7	1.50e7	2.789e3	1.015e4	1.29	
1,2,3,6,7,8-HxCDD-13C	35:31	6.81e7	5.21e7	2.00e7	1.53e7	1.591e3	8.298e3	1.31	
1,2,3,7,8,9-HxCDD-13C	35:45	9.26e7	7.22e7	2.28e7	1.79e7	8.163e4	5.295e4	1.28	
1,2,3,4,7,8-HxCDD	35:27	ND	ND	ND	ND	4.333e3	3.000e3		
1,2,3,6,7,8-HxCDD	35:32	ND	ND	ND	ND	5.278e3	2.816e3		
1,2,3,7,8,9-HxCDD	35:46	ND	ND	ND	ND	4.543e3	2.780e3		

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	37:15	3.00e7	6.72e7	8.88e6	1.89e7	3.602e4	1.989e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:37	2.12e7	4.52e7	5.46e6	1.09e7	1.209e4	6.961e3	0.47	
1,2,3,4,6,7,8-HpCDF	37:17	3.02e4	2.16e4	9.51e3	8.22e3	2.831e3	1.543e3	1.40	I
1,2,3,4,7,8,9-HpCDF	38:38	ND	ND	ND	ND	1.933e3	1.256e3		

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	38:09	3.23e7	3.10e7	9.04e6	8.49e6	5.443e3	3.336e4	1.04	
1,2,3,4,6,7,8-HpCDD	38:09	6.44e4	4.69e4	2.52e4	1.71e4	2.661e3	1.246e3	1.37	I
Other HpCDD 1	37:30	3.20e4	2.90e4					1.10	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:03	ND	ND	ND	ND	2.025e3	2.977e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.59e7	5.18e7	1.01e7	1.10e7	2.228e4	2.450e4	0.89	
OCDD	40:53	1.01e5	1.43e5	2.01e4	3.73e4	4.200e3	5.617e3	0.71	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK103C	Injected By	SMT
Lab ID	10258392010	Instrument ID	10MSHR06 (U)
Filename	U140307A_08	GC Column ID	USD397111H
Analyzed	03/07/2014 10:24	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:49	7.81e7	9.68e7	1.19e7	1.47e7	1.997e4	1.533e4	0.81	
2,3,7,8-TCDF	22:51	5.93e4	6.90e4	1.50e4	1.17e4	2.757e3	2.237e3	0.86	
Other TCDF 1	21:45	5.39e4	6.27e4					0.86	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:08	7.72e7	9.62e7	1.28e7	1.55e7	7.163e3	9.796e3	0.80	
2,3,7,8-TCDD-13C	24:03	4.87e7	6.07e7	6.76e6	8.65e6	2.538e4	3.622e4	0.80	
2,3,7,8-TCDD-37Cl4	24:05	1.29e7		1.76e6		5.701e3	-----		
2,3,7,8-TCDD	24:06	ND	ND	ND	ND	1.356e3	1.401e3		

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	1.07e8	6.64e7	2.16e7	1.33e7	5.603e4	3.665e4	1.62	
2,3,4,7,8-PeCDF-13C	31:37	1.13e8	6.91e7	2.78e7	1.69e7	3.630e4	1.866e4	1.63	
1,2,3,7,8-PeCDF	30:24	2.83e4	1.39e4	1.18e4	8.63e3	1.877e3	1.248e3	2.04	I
2,3,4,7,8-PeCDF	31:40	4.19e4	1.60e4	1.76e4	8.26e3	2.248e3	1.248e3	2.62	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	31:59	7.15e7	4.43e7	1.74e7	1.06e7	5.318e3	5.704e3	1.61	
1,2,3,7,8-PeCDD	31:59	7.69e3	1.27e4	1.04e5	6.43e3	1.024e3	1.490e3	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	34:39	4.79e7	9.07e7	1.60e7	3.01e7	7.471e2	4.858e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:46	6.51e7	1.22e8	1.88e7	3.49e7	7.226e3	4.507e3	0.53	
2,3,4,6,7,8-HxCDF-13C	35:17	5.67e7	1.05e8	1.69e7	3.22e7	7.940e2	2.663e3	0.54	
1,2,3,7,8,9-HxCDF-13C	35:60	4.55e7	8.88e7	1.23e7	2.43e7	4.226e4	2.929e4	0.51	
1,2,3,4,7,8-HxCDF	34:40	ND	ND	ND	ND	3.327e3	2.508e3		
1,2,3,6,7,8-HxCDF	34:47	ND	ND	ND	ND	2.582e3	3.099e3		
2,3,4,6,7,8-HxCDF	35:17	ND	ND	ND	ND	3.068e3	3.401e3		
1,2,3,7,8,9-HxCDF	36:01	ND	ND	ND	ND	2.755e3	3.015e3		

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Client Name	PASI Wisconsin		
Client ID	MAK103C	Injected By	SMT
Lab ID	10258392010	Instrument ID	10MSHR06 (U)
Filename	U140307A_08	GC Column ID	USD397111H
Analyzed	03/07/2014 10:24	ICAL ID	U140306

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	35:25	5.17e7	4.16e7	1.84e7	1.52e7	1.826e4	1.246e4	1.24	
1,2,3,6,7,8-HxCDD-13C	35:30	6.50e7	5.02e7	1.91e7	1.52e7	1.807e3	1.228e4	1.30	
1,2,3,7,8,9-HxCDD-13C	35:44	8.26e7	6.60e7	2.10e7	1.62e7	5.375e4	5.509e4	1.25	
1,2,3,4,7,8-HxCDD	35:26	ND	ND	ND	ND	2.408e3	3.143e3		
1,2,3,6,7,8-HxCDD	35:31	ND	ND	ND	ND	3.199e3	2.726e3		
1,2,3,7,8,9-HxCDD	35:45	ND	ND	ND	ND	2.708e3	2.662e3		

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	37:13	2.97e7	6.64e7	8.94e6	1.94e7	2.399e4	3.632e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:35	2.16e7	4.69e7	5.25e6	1.14e7	1.069e4	1.788e4	0.46	
1,2,3,4,6,7,8-HpCDF	37:15	3.38e4	1.54e4	1.41e4	5.28e3	2.747e3	1.567e3	2.20	I
1,2,3,4,7,8,9-HpCDF	38:36	ND	ND	ND	ND	2.898e3	1.910e3		

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	38:08	3.37e7	3.13e7	9.02e6	8.31e6	1.842e4	7.265e3	1.08	
1,2,3,4,6,7,8-HpCDD	38:09	5.29e4	6.02e4	1.89e4	1.88e4	2.345e3	2.199e3	0.88	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:01	1.04e4	2.62e4	4.18e3	1.27e4	2.025e3	2.625e3	0.39	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.81e7	5.28e7	9.91e6	1.09e7	1.407e4	2.140e4	0.91	
OCDD	40:52	1.63e5	1.87e5	3.89e4	4.42e4	4.851e3	3.835e3	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK104C	Injected By	SMT
Lab ID	10258392011	Instrument ID	10MSHR06 (U)
Filename	U140307A_09	GC Column ID	USD397111H
Analyzed	03/07/2014 11:08	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:49	7.46e7	9.16e7	1.20e7	1.44e7	2.377e4	1.719e4	0.81	
2,3,7,8-TCDF	22:50	7.29e4	1.13e5	1.33e4	1.80e4	2.323e3	3.209e3	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	23:08	8.12e7	9.95e7	1.32e7	1.59e7	4.733e3	9.733e3	0.82	
2,3,7,8-TCDD-13C	24:02	4.79e7	5.96e7	6.77e6	8.45e6	1.386e4	1.478e4	0.80	
2,3,7,8-TCDD-37Cl4	24:05	1.38e7		2.01e6		5.062e3	-----		
2,3,7,8-TCDD	24:05	ND	ND	ND	ND	1.897e3	2.666e3		

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	1.07e8	6.90e7	2.17e7	1.34e7	1.698e4	8.677e3	1.55	
2,3,4,7,8-PeCDF-13C	31:37	1.15e8	7.27e7	2.63e7	1.74e7	2.993e4	1.693e4	1.58	
1,2,3,7,8-PeCDF	30:23	1.56e4	7.80e3	8.83e3	3.84e3	1.858e3	1.520e3	1.99	I
2,3,4,7,8-PeCDF	31:38	2.44e4	5.38e3	1.28e4	1.63e3	1.808e3	1.697e3	4.54	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	31:59	7.31e7	4.53e7	1.70e7	1.05e7	1.932e4	8.811e3	1.61	
1,2,3,7,8-PeCDD	32:00	ND	ND	ND	ND	1.389e3	1.971e3		

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	34:39	4.94e7	9.08e7	1.52e7	2.90e7	1.562e3	1.227e5	0.54	
1,2,3,6,7,8-HxCDF-13C	34:46	6.55e7	1.26e8	1.82e7	3.47e7	1.425e3	1.916e3	0.52	
2,3,4,6,7,8-HxCDF-13C	35:17	5.72e7	1.07e8	1.66e7	3.08e7	6.487e3	3.167e3	0.53	
1,2,3,7,8,9-HxCDF-13C	36:01	4.74e7	8.83e7	1.21e7	2.24e7	3.715e4	1.011e5	0.54	
1,2,3,4,7,8-HxCDF	34:40	ND	ND	ND	ND	1.960e3	2.125e3		
1,2,3,6,7,8-HxCDF	34:47	ND	ND	ND	ND	2.115e3	1.714e3		
2,3,4,6,7,8-HxCDF	35:18	ND	ND	ND	ND	2.263e3	1.714e3		
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	1.968e3	1.887e3		

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Client Name	PASI Wisconsin		
Client ID	MAK104C	Injected By	SMT
Lab ID	10258392011	Instrument ID	10MSHR06 (U)
Filename	U140307A_09	GC Column ID	USD397111H
Analyzed	03/07/2014 11:08	ICAL ID	U140306

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	35:25	5.14e7	3.97e7	1.89e7	1.43e7	1.136e4	5.124e3	1.30	
1,2,3,6,7,8-HxCDD-13C	35:30	6.68e7	5.25e7	1.82e7	1.50e7	1.291e4	1.305e4	1.27	
1,2,3,7,8,9-HxCDD-13C	35:44	9.15e7	7.11e7	2.34e7	1.86e7	1.838e5	6.975e4	1.29	
1,2,3,4,7,8-HxCDD	35:26	ND	ND	ND	ND	2.137e3	2.491e3		
1,2,3,6,7,8-HxCDD	35:30	1.97e4	1.14e4	1.13e4	1.03e4	2.035e3	2.943e3	1.73	I
1,2,3,7,8,9-HxCDD	35:46	1.26e4	1.50e4	7.80e3	1.15e4	2.299e3	2.443e3	0.84	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	37:14	3.06e7	6.64e7	9.43e6	1.96e7	6.527e3	3.258e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:36	2.30e7	4.68e7	5.98e6	1.24e7	6.014e3	2.720e4	0.49	
1,2,3,4,6,7,8-HpCDF	37:13	3.45e4	2.01e4	1.15e4	6.81e3	2.437e3	3.206e3	1.72	I
1,2,3,4,7,8,9-HpCDF	38:37	ND	ND	ND	ND	1.984e3	2.761e3		

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	38:08	3.48e7	3.17e7	8.70e6	8.32e6	7.450e3	1.297e4	1.10	
1,2,3,4,6,7,8-HpCDD	38:09	4.92e4	4.69e4	1.87e4	1.11e4	2.130e3	1.922e3	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:04	4.17e4	2.27e4	2.05e4	1.07e4	3.636e3	2.575e3	1.83	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	5.05e7	5.50e7	1.06e7	1.12e7	1.179e4	6.866e4	0.92	
OCDD	40:52	8.27e4	1.12e5	3.85e4	2.83e4	4.661e3	4.152e3	0.74	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK105C	Injected By	SMT
Lab ID	10258392012	Instrument ID	10MSHR06 (U)
Filename	U140307A_10	GC Column ID	USD397111H
Analyzed	03/07/2014 11:53	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	8.44e7	1.02e8	1.27e7	1.57e7	2.331e4	1.023e4	0.83	
2,3,7,8-TCDF	22:50	5.59e4	5.58e4	1.59e4	1.37e4	3.398e3	2.030e3	1.00	I
Other TCDF 1	21:46	4.79e4	6.89e4					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	23:08	7.25e7	8.87e7	1.14e7	1.40e7	1.166e4	5.677e3	0.82	
2,3,7,8-TCDD-13C	24:03	5.33e7	6.54e7	7.82e6	9.32e6	3.024e4	2.107e4	0.82	
2,3,7,8-TCDD-37Cl4	24:04	1.41e7		2.02e6		2.910e3	-----		
2,3,7,8-TCDD	24:06	ND	ND	ND	ND	1.490e3	1.829e3		

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	1.09e8	6.91e7	2.17e7	1.38e7	1.658e4	3.147e4	1.57	
2,3,4,7,8-PeCDF-13C	31:38	1.14e8	7.27e7	2.80e7	1.74e7	1.938e4	1.432e4	1.56	
1,2,3,7,8-PeCDF	30:24	ND	ND	ND	ND	1.823e3	1.164e3		
2,3,4,7,8-PeCDF	31:39	ND	ND	ND	ND	1.584e3	1.113e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:59	7.10e7	4.58e7	1.78e7	1.12e7	1.151e4	1.491e4	1.55	
1,2,3,7,8-PeCDD	32:00	ND	ND	ND	ND	9.761e2	1.268e3		

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	34:40	4.78e7	9.16e7	1.51e7	2.81e7	2.327e3	1.047e4	0.52	
1,2,3,6,7,8-HxCDF-13C	34:46	6.51e7	1.21e8	1.82e7	3.43e7	3.412e3	1.700e4	0.54	
2,3,4,6,7,8-HxCDF-13C	35:17	5.65e7	1.07e8	1.77e7	3.25e7	1.498e3	8.535e2	0.53	
1,2,3,7,8,9-HxCDF-13C	36:01	4.49e7	8.87e7	1.17e7	2.20e7	1.584e4	6.432e4	0.51	
1,2,3,4,7,8-HxCDF	34:41	ND	ND	ND	ND	1.987e3	2.184e3		
1,2,3,6,7,8-HxCDF	34:47	ND	ND	ND	ND	1.987e3	2.225e3		
2,3,4,6,7,8-HxCDF	35:18	ND	ND	ND	ND	1.987e3	2.077e3		
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	1.817e3	1.963e3		

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Client Name	PASI Wisconsin		
Client ID	MAK105C	Injected By	SMT
Lab ID	10258392012	Instrument ID	10MSHR06 (U)
Filename	U140307A_10	GC Column ID	USD397111H
Analyzed	03/07/2014 11:53	ICAL ID	U140306

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	35:25	5.34e7	4.10e7	1.96e7	1.53e7	1.195e4	7.191e3	1.30	
1,2,3,6,7,8-HxCDD-13C	35:30	6.79e7	5.25e7	2.03e7	1.56e7	9.261e3	9.875e3	1.29	
1,2,3,7,8,9-HxCDD-13C	35:44	8.42e7	6.46e7	2.24e7	1.71e7	6.155e4	2.738e4	1.30	
1,2,3,4,7,8-HxCDD	35:26	ND	ND	ND	ND	2.009e3	1.706e3		
1,2,3,6,7,8-HxCDD	35:31	ND	ND	ND	ND	2.094e3	1.794e3		
1,2,3,7,8,9-HxCDD	35:45	ND	ND	ND	ND	2.194e3	1.915e3		

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	37:14	3.13e7	6.67e7	9.31e6	2.05e7	8.576e3	1.433e4	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:36	2.15e7	4.65e7	5.67e6	1.19e7	1.887e4	3.575e4	0.46	
1,2,3,4,6,7,8-HpCDF	37:15	ND	ND	ND	ND	2.913e3	1.396e3		
1,2,3,4,7,8,9-HpCDF	38:37	ND	ND	ND	ND	2.416e3	1.329e3		

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	38:08	3.36e7	3.05e7	9.13e6	8.41e6	5.052e4	2.636e4	1.10	
1,2,3,4,6,7,8-HpCDD	38:08	5.50e4	2.71e4	1.61e4	1.03e4	1.992e3	1.652e3	2.02	I
Other HpCDD 1	37:28	3.57e4	3.09e4					1.16	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:03	ND	ND	ND	ND	2.755e3	2.532e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.91e7	5.26e7	1.08e7	1.13e7	3.539e2	8.205e2	0.93	
OCDD	40:52	1.13e5	6.60e4	2.80e4	1.51e4	2.360e3	1.827e3	1.71	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK106C	Injected By	SMT
Lab ID	10258392013	Instrument ID	10MSHR06 (U)
Filename	U140307A_11	GC Column ID	USD397111H
Analyzed	03/07/2014 12:38	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:49	8.68e7	1.11e8	1.32e7	1.63e7	3.417e4	1.840e4	0.78	
2,3,7,8-TCDF	22:51	6.33e4	7.60e4	1.84e4	2.24e4	2.767e3	2.752e3	0.83	
Other TCDF 1	18:53	6.14e4	8.55e4					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	23:08	6.70e7	8.27e7	1.08e7	1.28e7	8.724e3	2.754e3	0.81	
2,3,7,8-TCDD-13C	24:03	5.49e7	6.85e7	7.51e6	9.19e6	3.182e4	9.183e3	0.80	
2,3,7,8-TCDD-37Cl4	24:05	1.43e7		2.19e6		1.767e3	-----		
2,3,7,8-TCDD	24:06	ND	ND	ND	ND	1.557e3	1.271e3		

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	1.06e8	6.62e7	2.22e7	1.38e7	5.913e3	3.012e3	1.60	
2,3,4,7,8-PeCDF-13C	31:38	1.09e8	6.72e7	2.55e7	1.48e7	2.951e4	2.454e4	1.62	
1,2,3,7,8-PeCDF	30:24	ND	ND	ND	ND	1.763e3	1.812e3		
2,3,4,7,8-PeCDF	31:38	1.75e4	1.48e4	5.43e3	5.85e3	1.474e3	1.520e3	1.18	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	31:59	6.83e7	4.37e7	1.55e7	1.04e7	2.836e3	4.348e3	1.56	
1,2,3,7,8-PeCDD	32:00	ND	ND	ND	ND	1.092e3	1.522e3		

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	34:40	4.56e7	8.68e7	1.40e7	2.61e7	1.403e3	4.578e4	0.53	
1,2,3,6,7,8-HxCDF-13C	34:46	6.09e7	1.14e8	1.71e7	3.21e7	1.403e3	9.342e4	0.54	
2,3,4,6,7,8-HxCDF-13C	35:17	5.31e7	9.78e7	1.52e7	2.80e7	1.652e3	3.605e3	0.54	
1,2,3,7,8,9-HxCDF-13C	36:01	4.42e7	8.54e7	1.16e7	2.10e7	1.172e4	2.461e4	0.52	
1,2,3,4,7,8-HxCDF	34:41	ND	ND	ND	ND	2.035e3	1.867e3		
1,2,3,6,7,8-HxCDF	34:47	ND	ND	ND	ND	1.751e3	1.802e3		
2,3,4,6,7,8-HxCDF	35:18	1.10e4	1.44e4	6.04e3	7.38e3	1.751e3	1.802e3	0.77	I
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	1.822e3	1.997e3		

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Client Name	PASI Wisconsin		
Client ID	MAK106C	Injected By	SMT
Lab ID	10258392013	Instrument ID	10MSHR06 (U)
Filename	U140307A_11	GC Column ID	USD397111H
Analyzed	03/07/2014 12:38	ICAL ID	U140306

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	35:25	4.79e7	3.72e7	1.76e7	1.35e7	1.240e4	1.158e4	1.29	
1,2,3,6,7,8-HxCDD-13C	35:30	6.39e7	4.96e7	1.84e7	1.45e7	1.127e4	7.547e3	1.29	
1,2,3,7,8,9-HxCDD-13C	35:44	7.55e7	6.01e7	1.96e7	1.52e7	1.385e3	8.661e2	1.26	
1,2,3,4,7,8-HxCDD	35:26	ND	ND	ND	ND	1.552e3	2.348e3		
1,2,3,6,7,8-HxCDD	35:30	1.74e4	1.86e4	5.89e3	8.33e3	1.552e3	2.646e3	0.94	I
1,2,3,7,8,9-HxCDD	35:45	1.03e4	8.49e3	6.72e3	4.27e3	1.552e3	2.381e3	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	37:14	2.89e7	6.27e7	8.43e6	1.89e7	1.257e4	2.216e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:36	2.05e7	4.35e7	5.28e6	1.09e7	1.257e4	4.064e4	0.47	
1,2,3,4,6,7,8-HpCDF	37:14	4.08e4	3.59e4	1.06e4	1.62e4	2.144e3	1.683e3	1.14	
1,2,3,4,7,8,9-HpCDF	38:37	ND	ND	ND	ND	2.462e3	2.044e3		

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	38:08	3.02e7	2.85e7	7.97e6	7.26e6	2.680e4	3.304e4	1.06	
1,2,3,4,6,7,8-HpCDD	38:08	3.31e4	3.23e4	1.42e4	2.36e4	2.393e3	2.906e3	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:02	1.45e4	1.13e4	7.07e3	6.60e3	1.201e3	1.432e3	1.29	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.47e7	5.06e7	9.68e6	1.08e7	1.457e3	6.083e2	0.88	
OCDD	40:53	9.17e4	1.03e5	2.90e4	3.22e4	1.220e3	1.780e3	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK107C	Injected By	SMT
Lab ID	10258392014	Instrument ID	10MSHR06 (U)
Filename	U140307A_12	GC Column ID	USD397111H
Analyzed	03/07/2014 13:23	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:49	7.13e7	8.99e7	1.04e7	1.33e7	1.507e4	9.562e3	0.79	
2,3,7,8-TCDF	22:52	3.88e4	7.67e4	1.34e4	1.41e4	1.978e3	2.901e3	0.51	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:08	7.02e7	8.79e7	1.06e7	1.34e7	5.631e3	4.737e3	0.80	
2,3,7,8-TCDD-13C	24:03	4.54e7	5.50e7	6.39e6	8.03e6	4.065e3	6.916e3	0.83	
2,3,7,8-TCDD-37Cl4	24:05	1.16e7		1.66e6		2.274e3	-----		
2,3,7,8-TCDD	24:06	ND	ND	ND	ND	1.571e3	2.589e3		

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	1.01e8	6.32e7	2.04e7	1.24e7	7.832e3	2.972e3	1.59	
2,3,4,7,8-PeCDF-13C	31:38	1.04e8	6.60e7	2.40e7	1.51e7	3.606e4	2.673e4	1.58	
1,2,3,7,8-PeCDF	30:24	ND	ND	ND	ND	1.186e3	1.678e3		
2,3,4,7,8-PeCDF	31:40	9.46e3	1.45e4	4.42e3	4.49e3	1.032e3	1.526e3	0.65	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	31:59	6.87e7	4.28e7	1.62e7	1.03e7	5.263e3	6.780e3	1.60	
1,2,3,7,8-PeCDD	32:00	ND	ND	ND	ND	6.986e2	1.238e3		

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	34:40	4.62e7	8.69e7	1.42e7	2.61e7	2.309e3	8.426e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:46	6.22e7	1.17e8	1.70e7	3.21e7	2.309e3	8.305e3	0.53	
2,3,4,6,7,8-HxCDF-13C	35:17	5.35e7	1.02e8	1.65e7	3.03e7	1.671e3	6.112e2	0.52	
1,2,3,7,8,9-HxCDF-13C	36:01	4.50e7	8.65e7	1.17e7	2.17e7	2.874e4	3.357e4	0.52	
1,2,3,4,7,8-HxCDF	34:40	1.92e4	8.16e3	1.21e4	3.12e3	1.847e3	2.459e3	2.35	I
1,2,3,6,7,8-HxCDF	34:47	ND	ND	ND	ND	1.975e3	2.473e3		
2,3,4,6,7,8-HxCDF	35:18	ND	ND	ND	ND	1.783e3	2.681e3		
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	1.989e3	2.889e3		

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Client Name	PASI Wisconsin		
Client ID	MAK107C	Injected By	SMT
Lab ID	10258392014	Instrument ID	10MSHR06 (U)
Filename	U140307A_12	GC Column ID	USD397111H
Analyzed	03/07/2014 13:23	ICAL ID	U140306

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	35:25	4.83e7	3.92e7	1.65e7	1.42e7	1.039e4	5.490e3	1.23	
1,2,3,6,7,8-HxCDD-13C	35:30	6.56e7	5.13e7	1.81e7	1.45e7	1.350e4	1.141e4	1.28	
1,2,3,7,8,9-HxCDD-13C	35:44	7.83e7	6.15e7	2.04e7	1.60e7	1.167e3	3.277e3	1.27	
1,2,3,4,7,8-HxCDD	35:26	ND	ND	ND	ND	2.211e3	1.388e3		
1,2,3,6,7,8-HxCDD	35:32	2.20e4	1.02e4	1.42e4	6.11e3	1.988e3	1.199e3	2.16	I
1,2,3,7,8,9-HxCDD	35:45	ND	ND	ND	ND	2.187e3	1.236e3		

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	37:14	2.99e7	6.46e7	8.56e6	1.86e7	1.329e4	3.089e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:36	2.16e7	4.57e7	5.56e6	1.14e7	2.048e4	1.960e4	0.47	
1,2,3,4,6,7,8-HpCDF	37:15	ND	ND	ND	ND	2.603e3	9.210e2		
1,2,3,4,7,8,9-HpCDF	38:37	ND	ND	ND	ND	2.771e3	9.954e2		

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	38:08	3.27e7	3.05e7	8.46e6	7.91e6	2.483e4	3.199e4	1.07	
1,2,3,4,6,7,8-HpCDD	38:09	3.20e4	4.55e4	1.26e4	1.36e4	1.906e3	9.607e2	0.70	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:03	ND	ND	ND	ND	2.031e3	1.629e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.86e7	5.38e7	1.01e7	1.09e7	6.901e2	1.125e3	0.90	
OCDD	40:52	9.00e4	6.96e4	2.65e4	1.64e4	3.778e3	2.476e3	1.29	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK108C	Injected By	SMT
Lab ID	10258392015	Instrument ID	10MSHR05 (F)
Filename	F140307A_04	GC Column ID	USD331524H
Analyzed	03/07/2014 06:05	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	19:48	3.92e7	5.02e7	6.41e6	8.20e6	1.394e4	4.565e3	0.78	
2,3,7,8-TCDF	19:47	2.38e4	4.15e4	4.49e3	1.02e4	1.208e3	1.167e3	0.57	I
Other TCDF 1	18:51	1.99e4	2.70e4					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	19:56	5.48e7	6.82e7	9.48e6	1.23e7	3.230e3	2.596e3	0.80	
2,3,7,8-TCDD-13C	20:47	3.51e7	4.41e7	5.55e6	7.02e6	8.011e3	5.779e3	0.80	
2,3,7,8-TCDD-37Cl4	20:49	8.11e6		1.26e6		8.923e2	-----		
2,3,7,8-TCDD	20:49	ND	ND	ND	ND	1.074e3	1.334e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	5.57e7	3.55e7	6.22e6	3.84e6	1.614e3	1.015e4	1.57	
2,3,4,7,8-PeCDF-13C	30:02	5.64e7	3.55e7	7.27e6	4.54e6	5.847e3	8.898e3	1.59	
1,2,3,7,8-PeCDF	27:37	2.00e4	1.65e4	3.66e3	4.12e3	8.568e2	6.977e2	1.21	I
2,3,4,7,8-PeCDF	30:04	2.08e4	1.19e4	5.21e3	2.68e3	9.036e2	5.648e2	1.75	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	4.81e7	2.98e7	6.59e6	4.17e6	8.856e3	2.800e3	1.62	
1,2,3,7,8-PeCDD	30:41	2.76e3	1.28e4	2.11e4	3.14e3	7.501e2	9.474e2	0.22	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	35:10	2.61e7	5.06e7	5.59e6	1.10e7	1.184e3	1.635e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:21	3.31e7	6.38e7	6.43e6	1.27e7	2.229e3	2.429e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:11	2.95e7	5.74e7	6.71e6	1.27e7	1.184e3	1.635e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:16	2.74e7	5.41e7	5.62e6	1.05e7	9.214e3	1.565e4	0.51	
1,2,3,4,7,8-HxCDF	35:12	2.41e4	1.71e4	6.90e3	5.33e3	1.123e3	1.050e3	1.41	
1,2,3,6,7,8-HxCDF	35:23	1.49e4	1.46e4	4.23e3	4.22e3	1.257e3	1.050e3	1.02	I
2,3,4,6,7,8-HxCDF	36:13	3.29e4	2.79e4	9.27e3	8.55e3	1.123e3	1.050e3	1.18	
1,2,3,7,8,9-HxCDF	37:16	1.04e4	7.80e3	6.02e3	2.09e3	1.125e3	1.050e3	1.33	

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Client Name	PASI Wisconsin		
Client ID	MAK108C	Injected By	SMT
Lab ID	10258392015	Instrument ID	10MSHR05 (F)
Filename	F140307A_04	GC Column ID	USD331524H
Analyzed	03/07/2014 06:05	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	36:24	3.60e7	2.87e7	8.68e6	6.76e6	7.998e3	1.585e3	1.25	
1,2,3,6,7,8-HxCDD-13C	36:32	4.23e7	3.48e7	8.73e6	6.89e6	3.654e3	2.868e3	1.22	
1,2,3,7,8,9-HxCDD-13C	36:53	5.52e7	4.41e7	1.16e7	9.23e6	1.183e3	3.896e3	1.25	
1,2,3,4,7,8-HxCDD	36:23	1.28e4	1.00e4	5.97e3	2.15e3	7.816e2	1.121e3	1.28	
1,2,3,6,7,8-HxCDD	36:31	1.23e4	1.66e4	4.58e3	4.01e3	7.816e2	1.146e3	0.74	I
1,2,3,7,8,9-HxCDD	36:53	1.19e4	2.11e4	3.96e3	8.74e3	7.816e2	1.034e3	0.56	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	39:10	2.65e7	6.05e7	5.34e6	1.20e7	4.877e3	1.775e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:04	2.13e7	4.96e7	4.11e6	8.99e6	2.938e3	1.009e4	0.43	
1,2,3,4,6,7,8-HpCDF	39:11	3.50e4	4.56e4	7.27e3	1.24e4	1.456e3	1.017e3	0.77	I
1,2,3,4,7,8,9-HpCDF	41:04	2.23e4	1.36e4	6.05e3	3.45e3	1.414e3	1.021e3	1.64	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	40:31	4.06e7	3.65e7	7.92e6	7.20e6	2.934e4	2.905e4	1.11	
1,2,3,4,6,7,8-HpCDD	40:32	5.40e4	4.11e4	1.58e4	1.12e4	1.412e3	9.766e2	1.31	I
Other HpCDD 1	39:35	4.38e4	4.16e4					1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:06	7.42e4	7.94e4	1.41e4	1.30e4	1.455e3	9.777e2	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:57	5.66e7	6.42e7	7.23e6	8.15e6	1.504e3	1.303e3	0.88	
OCDD	43:57	1.79e5	2.11e5	3.11e4	3.33e4	1.630e3	1.888e3	0.85	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK110C	Injected By	SMT
Lab ID	10258392016	Instrument ID	10MSHR05 (F)
Filename	F140307A_05	GC Column ID	USD331524H
Analyzed	03/07/2014 06:52	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	19:48	3.85e7	4.86e7	6.40e6	8.14e6	7.019e3	6.739e3	0.79	
2,3,7,8-TCDF	19:50	3.28e4	3.20e4	6.50e3	7.71e3	1.119e3	9.628e2	1.02	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:56	5.56e7	7.10e7	9.56e6	1.22e7	4.916e3	6.596e3	0.78	
2,3,7,8-TCDD-13C	20:46	3.38e7	4.33e7	5.45e6	6.81e6	5.686e3	6.563e3	0.78	
2,3,7,8-TCDD-37Cl4	20:48	8.16e6		1.34e6		1.418e3	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	9.788e2	8.582e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	5.61e7	3.51e7	6.13e6	3.80e6	1.480e4	6.462e3	1.60	
2,3,4,7,8-PeCDF-13C	30:02	5.62e7	3.52e7	7.20e6	4.50e6	6.460e3	6.360e3	1.60	
1,2,3,7,8-PeCDF	27:32	1.10e4	9.06e3	3.71e3	6.40e3	1.013e3	8.373e2	1.22	I
2,3,4,7,8-PeCDF	30:04	1.32e4	4.98e3	3.37e3	1.77e3	8.556e2	8.961e2	2.65	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	30:40	4.62e7	2.94e7	6.30e6	4.12e6	2.506e3	1.779e3	1.57	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	6.512e2	7.834e2		

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	35:11	2.44e7	4.67e7	5.33e6	1.02e7	4.860e2	2.857e4	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	3.19e7	6.11e7	6.65e6	1.18e7	1.183e3	2.857e4	0.52	
2,3,4,6,7,8-HxCDF-13C	36:11	2.90e7	5.53e7	6.14e6	1.18e7	8.564e2	1.259e3	0.53	
1,2,3,7,8,9-HxCDF-13C	37:16	2.63e7	5.04e7	4.90e6	9.41e6	9.936e3	2.428e4	0.52	
1,2,3,4,7,8-HxCDF	35:13	1.66e4	1.13e4	6.22e3	3.01e3	1.215e3	8.403e2	1.47	I
1,2,3,6,7,8-HxCDF	35:21	9.69e3	2.26e4	2.79e3	5.35e3	9.446e2	7.353e2	0.43	I
2,3,4,6,7,8-HxCDF	36:13	1.61e4	1.62e4	4.54e3	4.07e3	9.813e2	7.639e2	1.00	I
1,2,3,7,8,9-HxCDF	37:18	2.25e4	1.28e4	6.99e3	3.60e3	8.566e2	7.115e2	1.75	I

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Client Name	PASI Wisconsin		
Client ID	MAK110C	Injected By	SMT
Lab ID	10258392016	Instrument ID	10MSHR05 (F)
Filename	F140307A_05	GC Column ID	USD331524H
Analyzed	03/07/2014 06:52	ICAL ID	F131125

Other HxCDF	1	33:33	1.06e4	9.69e3	1.09
	2	33:17	1.14e4	8.76e3	1.30

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	36:24	3.61e7	2.78e7	8.15e6	6.60e6	4.862e3	6.474e3	1.30	
1,2,3,6,7,8-HxCDD-13C	36:32	4.06e7	3.43e7	8.14e6	7.01e6	3.905e3	1.971e3	1.19	
1,2,3,7,8,9-HxCDD-13C	36:53	5.44e7	4.39e7	1.02e7	8.88e6	4.837e3	6.432e3	1.24	
1,2,3,4,7,8-HxCDD	36:24	ND	ND	ND	ND	1.015e3	7.128e2		
1,2,3,6,7,8-HxCDD	36:34	ND	ND	ND	ND	8.164e2	7.485e2		
1,2,3,7,8,9-HxCDD	36:53	8.74e3	8.60e3	2.63e3	3.69e3	8.652e2	7.058e2	1.02	I
Other HxCDD 1	34:12	9.67e3	6.76e3					1.43	

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	39:11	2.52e7	5.72e7	5.13e6	1.15e7	7.795e3	1.136e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:05	2.10e7	4.72e7	3.86e6	9.30e6	3.673e3	8.343e3	0.45	
1,2,3,4,6,7,8-HpCDF	39:11	3.66e4	4.20e4	9.39e3	9.45e3	1.522e3	1.124e3	0.87	I
1,2,3,4,7,8,9-HpCDF	41:06	1.58e4	1.12e4	4.22e3	3.52e3	1.186e3	1.370e3	1.41	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	40:33	3.92e7	3.61e7	7.36e6	6.95e6	3.010e4	2.309e4	1.08	
1,2,3,4,6,7,8-HpCDD	40:34	6.36e4	5.43e4	1.49e4	1.28e4	1.865e3	1.699e3	1.17	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:07	4.38e4	3.91e4	7.55e3	6.98e3	1.532e3	1.179e3	1.12	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:59	5.44e7	6.11e7	6.76e6	7.89e6	3.956e2	6.239e2	0.89	
OCDD	43:59	2.05e5	2.11e5	3.52e4	2.42e4	9.594e2	7.788e2	0.97	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK101L	Injected By	SMT
Lab ID	10258392017	Instrument ID	10MSHR05 (F)
Filename	F140307A_06	GC Column ID	USD331524H
Analyzed	03/07/2014 07:39	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	19:47	4.63e7	6.12e7	8.17e6	1.04e7	1.067e4	5.802e3	0.76	
2,3,7,8-TCDF	19:47	8.48e4	3.23e4	1.50e4	5.19e3	2.570e3	1.862e3	2.63	I
Other TCDF 1	22:07	1.68e5	2.27e5					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	19:55	5.72e7	7.23e7	1.02e7	1.30e7	4.078e3	3.354e3	0.79	
2,3,7,8-TCDD-13C	20:45	4.06e7	5.32e7	6.38e6	8.25e6	9.985e3	7.593e3	0.76	
2,3,7,8-TCDD-37Cl4	20:48	9.55e6		1.61e6		9.440e2	-----		
2,3,7,8-TCDD	20:47	ND	ND	ND	ND	1.536e3	1.065e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:29	6.21e7	4.00e7	6.89e6	4.46e6	2.379e4	3.060e4	1.55	
2,3,4,7,8-PeCDF-13C	30:01	6.60e7	4.17e7	8.46e6	5.30e6	1.041e4	7.775e3	1.58	
1,2,3,7,8-PeCDF	27:31	ND	ND	ND	ND	1.058e3	7.703e2		
2,3,4,7,8-PeCDF	30:05	2.12e4	1.53e4	3.95e3	2.61e3	1.068e3	8.576e2	1.38	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	5.31e7	3.43e7	7.56e6	4.96e6	1.539e3	3.878e3	1.55	
1,2,3,7,8-PeCDD	30:41	6.86e3	1.85e4	2.16e4	4.03e3	7.430e2	6.328e2	0.37	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	35:09	2.75e7	5.39e7	5.90e6	1.15e7	8.221e2	1.285e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:19	3.65e7	6.88e7	7.10e6	1.36e7	1.527e3	1.443e3	0.53	
2,3,4,6,7,8-HxCDF-13C	36:10	3.07e7	6.00e7	6.56e6	1.24e7	1.527e3	1.285e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:15	2.88e7	5.67e7	5.64e6	1.08e7	5.483e3	1.576e4	0.51	
1,2,3,4,7,8-HxCDF	35:10	1.29e4	1.50e4	3.54e3	3.54e3	8.169e2	6.415e2	0.86	I
1,2,3,6,7,8-HxCDF	35:22	1.65e4	5.99e3	4.60e3	1.46e3	9.723e2	6.899e2	2.76	I
2,3,4,6,7,8-HxCDF	36:12	1.45e4	9.91e3	3.29e3	2.29e3	8.359e2	8.846e2	1.46	I
1,2,3,7,8,9-HxCDF	37:16	1.35e4	1.06e4	4.47e3	2.37e3	1.019e3	7.159e2	1.28	

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Client Name	PASI Wisconsin		
Client ID	MAK101L	Injected By	SMT
Lab ID	10258392017	Instrument ID	10MSHR05 (F)
Filename	F140307A_06	GC Column ID	USD331524H
Analyzed	03/07/2014 07:39	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	36:22	3.91e7	3.16e7	9.55e6	7.66e6	5.659e3	3.706e3	1.24	
1,2,3,6,7,8-HxCDD-13C	36:30	4.57e7	3.67e7	9.37e6	7.56e6	2.653e3	2.207e3	1.24	
1,2,3,7,8,9-HxCDD-13C	36:52	5.99e7	4.76e7	1.18e7	9.24e6	7.614e3	2.476e3	1.26	
1,2,3,4,7,8-HxCDD	36:25	3.84e4	7.27e4	1.28e4	1.88e4	1.462e3	2.095e3	0.53	I
1,2,3,6,7,8-HxCDD	36:32	ND	ND	ND	ND	1.461e3	2.548e3		
1,2,3,7,8,9-HxCDD	36:54	ND	ND	ND	ND	1.462e3	2.112e3		

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	39:10	2.75e7	6.26e7	5.49e6	1.24e7	5.269e3	1.300e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:06	2.34e7	5.27e7	4.19e6	9.32e6	4.559e3	8.909e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:13	2.88e4	3.69e4	6.97e3	7.72e3	1.287e3	1.493e3	0.78	I
1,2,3,4,7,8,9-HpCDF	41:07	1.81e4	1.21e4	3.79e3	3.16e3	1.564e3	1.324e3	1.49	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	40:33	4.20e7	4.00e7	7.89e6	7.33e6	1.403e4	2.391e4	1.05	
1,2,3,4,6,7,8-HpCDD	40:32	2.33e4	4.32e4	5.16e3	1.08e4	1.033e3	7.837e2	0.54	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:11	4.57e4	6.24e4	5.94e3	9.20e3	1.356e3	1.210e3	0.73	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:03	6.06e7	6.96e7	7.21e6	8.02e6	8.188e2	7.917e2	0.87	
OCDD	44:02	1.79e5	1.98e5	2.27e4	2.52e4	1.668e3	1.788e3	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK102L	Injected By	SMT
Lab ID	10258392018	Instrument ID	10MSHR05 (F)
Filename	F140307A_07	GC Column ID	USD331524H
Analyzed	03/07/2014 08:26	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	19:47	4.36e7	5.67e7	7.14e6	9.52e6	8.201e3	5.345e3	0.77	
2,3,7,8-TCDF	19:46	1.23e5	3.51e4	1.94e4	7.28e3	2.599e3	8.469e2	3.51	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:55	5.03e7	6.48e7	8.72e6	1.13e7	3.866e3	1.508e3	0.78	
2,3,7,8-TCDD-13C	20:46	3.79e7	5.03e7	6.29e6	7.92e6	7.838e3	5.641e3	0.75	
2,3,7,8-TCDD-37Cl4	20:48	8.50e6		1.39e6		9.254e2	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	1.153e3	1.121e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	5.85e7	3.74e7	6.52e6	4.12e6	2.325e3	2.360e3	1.56	
2,3,4,7,8-PeCDF-13C	30:02	5.97e7	3.82e7	7.72e6	5.00e6	7.351e3	1.046e4	1.56	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	7.773e2	1.080e3		
2,3,4,7,8-PeCDF	30:04	ND	ND	ND	ND	9.091e2	8.672e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	5.06e7	3.16e7	6.86e6	4.49e6	4.978e3	3.136e3	1.60	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	5.096e2	8.570e2		

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	35:10	2.55e7	4.85e7	5.69e6	1.05e7	1.858e3	9.841e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	3.39e7	6.43e7	6.65e6	1.29e7	1.109e3	2.330e3	0.53	
2,3,4,6,7,8-HxCDF-13C	36:11	3.03e7	5.69e7	6.22e6	1.18e7	1.109e3	1.743e3	0.53	
1,2,3,7,8,9-HxCDF-13C	37:15	2.71e7	5.20e7	5.26e6	9.90e6	9.130e3	1.570e4	0.52	
1,2,3,4,7,8-HxCDF	35:10	1.37e4	1.11e4	3.02e3	4.03e3	1.097e3	1.079e3	1.23	
1,2,3,6,7,8-HxCDF	35:20	1.77e4	6.44e3	3.48e3	1.77e3	1.225e3	1.152e3	2.75	I
2,3,4,6,7,8-HxCDF	36:12	1.45e4	6.46e3	4.81e3	2.47e3	1.500e3	9.106e2	2.24	I
1,2,3,7,8,9-HxCDF	37:17	ND	ND	ND	ND	1.001e3	9.328e2		

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Client Name	PASI Wisconsin		
Client ID	MAK102L	Injected By	SMT
Lab ID	10258392018	Instrument ID	10MSHR05 (F)
Filename	F140307A_07	GC Column ID	USD331524H
Analyzed	03/07/2014 08:26	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	36:23	3.68e7	2.95e7	8.76e6	6.92e6	4.996e3	3.643e3	1.25	
1,2,3,6,7,8-HxCDD-13C	36:31	4.28e7	3.37e7	8.74e6	6.94e6	3.678e3	3.643e3	1.27	
1,2,3,7,8,9-HxCDD-13C	36:52	5.08e7	4.19e7	1.06e7	8.61e6	4.996e3	3.447e3	1.21	
1,2,3,4,7,8-HxCDD	36:23	ND	ND	ND	ND	7.297e2	1.392e3		
1,2,3,6,7,8-HxCDD	36:33	ND	ND	ND	ND	7.297e2	1.657e3		
1,2,3,7,8,9-HxCDD	36:54	ND	ND	ND	ND	6.329e2	1.593e3		

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	39:10	2.59e7	5.87e7	5.28e6	1.18e7	1.139e4	2.466e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:05	2.05e7	4.86e7	3.90e6	8.96e6	3.825e3	7.005e3	0.42	
1,2,3,4,6,7,8-HpCDF	39:11	3.68e4	3.27e4	9.36e3	9.32e3	1.585e3	1.263e3	1.13	
1,2,3,4,7,8,9-HpCDF	41:05	ND	ND	ND	ND	1.515e3	1.234e3		

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	40:32	3.94e7	3.65e7	7.27e6	6.98e6	1.678e4	2.338e4	1.08	
1,2,3,4,6,7,8-HpCDD	40:33	4.62e4	5.68e4	1.06e4	1.14e4	1.493e3	1.010e3	0.81	I
Other HpCDD 1	39:36	5.52e4	6.23e4					0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:15	4.82e4	4.26e4	5.32e3	6.58e3	2.199e3	2.209e3	1.13	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:03	5.71e7	6.46e7	6.45e6	7.61e6	7.558e2	6.147e2	0.88	
OCDD	44:05	2.64e5	2.61e5	3.47e4	3.27e4	1.338e3	1.830e3	1.01	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK105L	Injected By	SMT
Lab ID	10258392019	Instrument ID	10MSHR05 (F)
Filename	F140307A_08	GC Column ID	USD331524H
Analyzed	03/07/2014 09:12	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	19:47	3.57e7	4.65e7	6.22e6	8.03e6	6.969e3	3.990e3	0.77	
2,3,7,8-TCDF	19:45	3.89e4	2.32e4	4.02e3	4.76e3	3.062e3	1.552e3	1.68	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:56	4.50e7	5.87e7	7.74e6	1.02e7	5.188e3	4.396e3	0.77	
2,3,7,8-TCDD-13C	20:46	3.09e7	4.02e7	4.73e6	6.26e6	4.067e3	8.560e3	0.77	
2,3,7,8-TCDD-37Cl4	20:48	7.40e6		1.19e6		1.880e3	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	1.251e3	1.084e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	4.93e7	3.08e7	5.32e6	3.44e6	8.200e3	9.475e3	1.60	
2,3,4,7,8-PeCDF-13C	30:02	5.00e7	3.25e7	6.57e6	4.21e6	6.441e3	5.886e3	1.54	
1,2,3,7,8-PeCDF	27:33	ND	ND	ND	ND	1.060e3	9.125e2		
2,3,4,7,8-PeCDF	30:04	ND	ND	ND	ND	1.050e3	7.111e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	4.23e7	2.63e7	6.01e6	3.81e6	5.721e3	2.208e3	1.61	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	6.705e2	8.726e2		

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	35:10	2.18e7	4.19e7	4.80e6	9.19e6	1.152e3	3.619e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	2.77e7	5.41e7	5.60e6	1.09e7	1.152e3	3.683e3	0.51	
2,3,4,6,7,8-HxCDF-13C	36:11	2.48e7	4.85e7	5.20e6	1.01e7	6.419e2	1.548e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:17	2.26e7	4.44e7	4.47e6	8.70e6	7.212e3	1.214e4	0.51	
1,2,3,4,7,8-HxCDF	35:11	ND	ND	ND	ND	9.921e2	7.985e2		
1,2,3,6,7,8-HxCDF	35:21	1.42e4	1.20e4	4.50e3	2.51e3	9.168e2	8.696e2	1.19	
2,3,4,6,7,8-HxCDF	36:12	ND	ND	ND	ND	8.809e2	6.907e2		
1,2,3,7,8,9-HxCDF	37:19	ND	ND	ND	ND	8.137e2	6.909e2		

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Client Name	PASI Wisconsin		
Client ID	MAK105L	Injected By	SMT
Lab ID	10258392019	Instrument ID	10MSHR05 (F)
Filename	F140307A_08	GC Column ID	USD331524H
Analyzed	03/07/2014 09:12	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	36:23	3.15e7	2.51e7	7.45e6	5.96e6	4.479e3	1.078e3	1.26	
1,2,3,6,7,8-HxCDD-13C	36:32	3.58e7	2.81e7	6.96e6	5.33e6	4.495e3	3.205e3	1.27	
1,2,3,7,8,9-HxCDD-13C	36:54	4.72e7	3.81e7	9.05e6	7.41e6	1.867e3	1.082e3	1.24	
1,2,3,4,7,8-HxCDD	36:25	1.70e4	2.94e4	3.79e3	7.64e3	9.703e2	1.343e3	0.58	I
1,2,3,6,7,8-HxCDD	36:34	ND	ND	ND	ND	1.102e3	1.457e3		
1,2,3,7,8,9-HxCDD	36:55	ND	ND	ND	ND	1.098e3	1.295e3		

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	39:10	2.13e7	5.09e7	4.31e6	1.04e7	6.610e3	5.286e3	0.42	
1,2,3,4,7,8,9-HpCDF-13C	41:04	1.85e7	4.20e7	3.58e6	7.50e6	2.853e3	5.877e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:11	1.72e4	1.55e4	6.64e3	5.30e3	1.690e3	1.137e3	1.11	
1,2,3,4,7,8,9-HpCDF	41:04	ND	ND	ND	ND	1.377e3	9.848e2		

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	40:32	3.32e7	3.19e7	6.46e6	6.08e6	1.374e4	1.468e4	1.04	
1,2,3,4,6,7,8-HpCDD	40:33	2.37e4	3.76e4	5.43e3	8.69e3	1.127e3	1.267e3	0.63	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:09	3.74e4	2.74e4	9.15e3	5.96e3	1.660e3	1.438e3	1.37	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:58	4.78e7	5.40e7	5.98e6	6.49e6	1.363e3	5.449e2	0.89	
OCDD	44:00	8.45e4	1.03e5	1.89e4	1.52e4	1.548e3	1.809e3	0.82	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK106L	Injected By	SMT
Lab ID	10258392020	Instrument ID	10MSHR05 (F)
Filename	F140307A_09	GC Column ID	USD331524H
Analyzed	03/07/2014 09:59	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	19:47	3.71e7	4.61e7	6.57e6	7.93e6	5.696e3	4.160e3	0.80	
2,3,7,8-TCDF	19:45	5.86e4	3.09e4	8.47e3	5.20e3	3.173e3	1.163e3	1.90	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:56	3.98e7	4.98e7	6.92e6	8.76e6	4.152e3	2.193e3	0.80	
2,3,7,8-TCDD-13C	20:46	3.22e7	4.06e7	5.34e6	6.70e6	5.007e3	6.924e3	0.79	
2,3,7,8-TCDD-37Cl4	20:48	7.01e6		1.10e6		8.252e2	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	1.648e3	1.478e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	4.73e7	3.01e7	5.16e6	3.34e6	1.401e3	9.902e3	1.57	
2,3,4,7,8-PeCDF-13C	30:01	4.87e7	3.06e7	6.53e6	4.06e6	9.578e3	8.656e3	1.59	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	9.540e2	7.453e2		
2,3,4,7,8-PeCDF	30:03	ND	ND	ND	ND	9.086e2	5.838e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	4.03e7	2.52e7	5.69e6	3.55e6	6.345e3	2.479e3	1.60	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	4.620e2	4.648e2		

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	35:10	2.10e7	4.04e7	4.50e6	8.47e6	8.327e2	1.955e4	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	2.62e7	5.02e7	5.22e6	9.86e6	7.126e2	1.955e4	0.52	
2,3,4,6,7,8-HxCDF-13C	36:11	2.39e7	4.65e7	5.35e6	1.01e7	8.762e2	1.226e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:16	2.17e7	4.24e7	4.35e6	8.33e6	1.043e4	1.332e4	0.51	
1,2,3,4,7,8-HxCDF	35:11	ND	ND	ND	ND	7.966e2	5.471e2		
1,2,3,6,7,8-HxCDF	35:24	1.01e4	9.31e3	3.75e3	2.21e3	7.352e2	5.749e2	1.08	
2,3,4,6,7,8-HxCDF	36:12	1.15e4	4.89e3	2.66e3	1.75e3	7.976e2	5.353e2	2.34	I
1,2,3,7,8,9-HxCDF	37:18	ND	ND	ND	ND	7.263e2	5.648e2		

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1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Client Name	PASI Wisconsin		
Client ID	MAK106L	Injected By	SMT
Lab ID	10258392020	Instrument ID	10MSHR05 (F)
Filename	F140307A_09	GC Column ID	USD331524H
Analyzed	03/07/2014 09:59	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	36:23	2.89e7	2.28e7	6.75e6	5.36e6	4.205e3	2.561e3	1.27	
1,2,3,6,7,8-HxCDD-13C	36:31	3.41e7	2.72e7	6.76e6	5.64e6	1.732e3	6.122e2	1.25	
1,2,3,7,8,9-HxCDD-13C	36:53	4.12e7	3.25e7	8.04e6	6.35e6	4.205e3	1.885e3	1.27	
1,2,3,4,7,8-HxCDD	36:27	1.35e4	2.95e4	4.37e3	7.94e3	6.439e2	1.647e3	0.46	I
1,2,3,6,7,8-HxCDD	36:33	ND	ND	ND	ND	9.197e2	1.340e3		
1,2,3,7,8,9-HxCDD	36:54	ND	ND	ND	ND	8.227e2	1.282e3		

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	39:10	2.01e7	4.48e7	4.12e6	9.27e6	6.520e3	1.682e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:04	1.72e7	3.89e7	3.07e6	7.12e6	4.036e3	5.477e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:12	2.22e4	2.36e4	7.31e3	7.21e3	1.371e3	1.164e3	0.94	
1,2,3,4,7,8,9-HpCDF	41:04	ND	ND	ND	ND	1.448e3	1.322e3		

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	40:32	3.09e7	3.03e7	6.18e6	5.76e6	1.717e4	1.572e4	1.02	
1,2,3,4,6,7,8-HpCDD	40:32	2.08e4	1.58e4	7.59e3	6.57e3	1.379e3	1.300e3	1.31	I
Other HpCDD 1	39:35	2.79e4	2.70e4					1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:08	ND	ND	ND	ND	1.361e3	1.876e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:59	4.57e7	5.14e7	5.56e6	6.08e6	1.149e3	3.627e2	0.89	
OCDD	44:02	5.61e4	6.81e4	1.32e4	1.62e4	1.106e3	1.813e3	0.82	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK108,109,110,113L	Injected By	SMT
Lab ID	10258392021	Instrument ID	10MSHR05 (F)
Filename	F140307A_10	GC Column ID	USD331524H
Analyzed	03/07/2014 10:46	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	19:47	2.67e7	3.42e7	4.50e6	5.83e6	4.731e3	3.650e3	0.78	
2,3,7,8-TCDF	19:48	5.87e4	2.43e4	1.04e4	5.58e3	3.588e3	8.539e2	2.41	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:55	3.54e7	4.50e7	6.37e6	8.15e6	3.830e3	3.117e3	0.79	
2,3,7,8-TCDD-13C	20:46	2.38e7	3.01e7	3.85e6	4.64e6	4.498e3	2.602e3	0.79	
2,3,7,8-TCDD-37Cl4	20:47	5.72e6		9.28e5		1.855e3	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	7.437e2	1.150e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	3.72e7	2.35e7	4.12e6	2.61e6	8.770e3	5.766e3	1.58	
2,3,4,7,8-PeCDF-13C	30:01	3.78e7	2.38e7	4.76e6	3.06e6	1.162e4	5.121e3	1.59	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	5.968e2	5.709e2		
2,3,4,7,8-PeCDF	30:03	ND	ND	ND	ND	5.011e2	5.310e2		
Other PeCDF 1	25:17	3.57e4	2.18e4					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	30:41	3.16e7	1.97e7	4.29e6	2.80e6	5.261e3	3.279e3	1.60	
1,2,3,7,8-PeCDD	30:43	ND	ND	ND	ND	7.404e2	6.467e2		

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	35:10	1.62e7	3.16e7	3.57e6	7.15e6	7.530e2	1.518e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:20	2.07e7	3.97e7	4.13e6	7.92e6	6.407e2	1.499e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:11	1.82e7	3.57e7	4.02e6	7.54e6	1.328e3	1.467e3	0.51	
1,2,3,7,8,9-HxCDF-13C	37:16	1.66e7	3.19e7	3.51e6	6.34e6	6.974e3	1.517e4	0.52	
1,2,3,4,7,8-HxCDF	35:11	ND	ND	ND	ND	8.568e2	7.462e2		
1,2,3,6,7,8-HxCDF	35:22	ND	ND	ND	ND	8.568e2	7.462e2		
2,3,4,6,7,8-HxCDF	36:12	ND	ND	ND	ND	8.568e2	7.462e2		
1,2,3,7,8,9-HxCDF	37:18	ND	ND	ND	ND	8.685e2	6.142e2		

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Client Name	PASI Wisconsin		
Client ID	MAK108,109,110,113L	Injected By	SMT
Lab ID	10258392021	Instrument ID	10MSHR05 (F)
Filename	F140307A_10	GC Column ID	USD331524H
Analyzed	03/07/2014 10:46	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	36:24	2.28e7	1.83e7	5.47e6	4.43e6	2.320e3	1.596e3	1.24	
1,2,3,6,7,8-HxCDD-13C	36:32	2.78e7	2.21e7	5.55e6	4.49e6	4.142e3	1.611e3	1.26	
1,2,3,7,8,9-HxCDD-13C	36:53	3.45e7	2.83e7	6.88e6	5.65e6	1.821e3	3.737e3	1.22	
1,2,3,4,7,8-HxCDD	36:24	ND	ND	ND	ND	6.785e2	1.388e3		
1,2,3,6,7,8-HxCDD	36:34	ND	ND	ND	ND	6.615e2	1.183e3		
1,2,3,7,8,9-HxCDD	36:55	ND	ND	ND	ND	7.123e2	1.108e3		

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	39:11	1.65e7	3.66e7	3.31e6	7.43e6	9.501e3	1.168e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:07	1.40e7	3.11e7	2.61e6	5.42e6	2.680e3	4.533e3	0.45	
1,2,3,4,6,7,8-HpCDF	39:14	3.08e4	1.73e4	5.52e3	5.04e3	1.330e3	1.131e3	1.78	I
1,2,3,4,7,8,9-HpCDF	41:07	ND	ND	ND	ND	1.473e3	9.970e2		

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	40:34	2.48e7	2.43e7	4.44e6	4.43e6	1.243e4	1.143e4	1.02	
1,2,3,4,6,7,8-HpCDD	40:33	2.18e4	2.18e4	5.98e3	8.07e3	1.382e3	1.519e3	1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:09	3.70e4	2.50e4	6.70e3	6.77e3	1.279e3	1.147e3	1.48	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:59	3.73e7	4.17e7	4.33e6	5.09e6	5.748e2	1.600e2	0.90	
OCDD	44:00	1.27e5	1.46e5	2.31e4	2.29e4	1.352e3	9.363e2	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK111L	Injected By	SMT
Lab ID	10258392022	Instrument ID	10MSHR05 (F)
Filename	F140307A_11	GC Column ID	USD331524H
Analyzed	03/07/2014 11:33	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	19:47	2.59e7	3.36e7	4.47e6	5.63e6	5.708e3	4.664e3	0.77	
2,3,7,8-TCDF	19:49	1.90e5	1.95e4	3.26e4	2.88e3	4.111e3	9.793e2	9.74	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:55	3.05e7	4.06e7	5.43e6	7.23e6	3.766e3	2.108e3	0.75	
2,3,7,8-TCDD-13C	20:46	2.25e7	2.90e7	3.62e6	4.77e6	3.442e3	3.190e3	0.78	
2,3,7,8-TCDD-37Cl4	20:48	5.13e6		7.71e5		9.544e2	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	7.531e2	1.199e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	3.48e7	2.16e7	3.86e6	2.36e6	7.882e3	4.769e3	1.61	
2,3,4,7,8-PeCDF-13C	30:02	3.57e7	2.22e7	4.81e6	2.92e6	4.799e3	6.438e3	1.61	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	9.059e2	7.040e2		
2,3,4,7,8-PeCDF	30:04	ND	ND	ND	ND	8.354e2	6.149e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	2.96e7	1.94e7	4.24e6	2.71e6	7.294e2	1.364e3	1.52	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	3.760e2	6.949e2		

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	35:10	1.53e7	2.97e7	3.37e6	6.36e6	7.526e2	1.592e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	1.96e7	3.78e7	3.95e6	7.45e6	5.205e3	1.409e4	0.52	
2,3,4,6,7,8-HxCDF-13C	36:11	1.77e7	3.37e7	3.92e6	7.71e6	7.526e2	1.269e3	0.52	
1,2,3,7,8,9-HxCDF-13C	37:16	1.62e7	3.21e7	3.33e6	6.42e6	6.130e3	8.645e3	0.50	
1,2,3,4,7,8-HxCDF	35:11	ND	ND	ND	ND	7.264e2	6.274e2		
1,2,3,6,7,8-HxCDF	35:23	ND	ND	ND	ND	7.077e2	5.366e2		
2,3,4,6,7,8-HxCDF	36:12	ND	ND	ND	ND	7.182e2	4.414e2		
1,2,3,7,8,9-HxCDF	37:18	ND	ND	ND	ND	7.182e2	4.014e2		

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Client Name	PASI Wisconsin		
Client ID	MAK111L	Injected By	SMT
Lab ID	10258392022	Instrument ID	10MSHR05 (F)
Filename	F140307A_11	GC Column ID	USD331524H
Analyzed	03/07/2014 11:33	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	36:24	2.14e7	1.77e7	5.10e6	4.36e6	4.665e3	1.283e3	1.21	
1,2,3,6,7,8-HxCDD-13C	36:32	2.63e7	2.13e7	5.55e6	4.36e6	1.098e3	1.013e3	1.23	
1,2,3,7,8,9-HxCDD-13C	36:53	3.27e7	2.52e7	6.59e6	5.16e6	4.185e3	6.026e2	1.30	
1,2,3,4,7,8-HxCDD	36:24	ND	ND	ND	ND	1.059e3	1.177e3		
1,2,3,6,7,8-HxCDD	36:34	ND	ND	ND	ND	1.025e3	9.127e2		
1,2,3,7,8,9-HxCDD	36:54	ND	ND	ND	ND	7.982e2	1.177e3		

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	39:10	1.56e7	3.50e7	3.18e6	6.60e6	4.685e3	1.093e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:06	1.27e7	2.87e7	2.35e6	5.23e6	2.454e3	9.844e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:11	2.29e4	2.66e4	5.70e3	8.15e3	1.808e3	1.097e3	0.86	I
1,2,3,4,7,8,9-HpCDF	41:06	ND	ND	ND	ND	1.674e3	1.031e3		

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	40:33	2.28e7	2.24e7	4.42e6	4.39e6	2.128e3	9.256e3	1.02	
1,2,3,4,6,7,8-HpCDD	40:32	2.53e4	3.30e4	8.31e3	8.52e3	1.086e3	1.051e3	0.77	I
Other HpCDD 1	39:35	4.06e4	3.67e4					1.11	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:10	ND	ND	ND	ND	1.178e3	1.386e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:01	3.53e7	3.81e7	3.94e6	4.75e6	2.377e2	1.015e2	0.93	
OCDD	44:04	1.32e5	1.67e5	1.99e4	2.75e4	1.253e3	1.520e3	0.79	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK112L	Injected By	SMT
Lab ID	10258392023	Instrument ID	10MSHR05 (F)
Filename	F140307A_12	GC Column ID	USD331524H
Analyzed	03/07/2014 12:20	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	19:46	2.51e7	3.18e7	4.19e6	5.47e6	5.428e3	2.821e3	0.79	
2,3,7,8-TCDF	19:47	1.13e5	1.52e4	2.62e4	3.07e3	3.397e3	7.101e2	7.41	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:55	2.90e7	3.72e7	5.27e6	6.61e6	4.260e3	2.032e3	0.78	
2,3,7,8-TCDD-13C	20:46	2.16e7	2.78e7	3.57e6	4.40e6	4.790e3	4.809e3	0.78	
2,3,7,8-TCDD-37Cl4	20:48	5.17e6		7.94e5		1.118e3	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	7.817e2	9.429e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	3.37e7	2.10e7	3.72e6	2.39e6	8.522e3	5.420e3	1.61	
2,3,4,7,8-PeCDF-13C	30:01	3.40e7	2.18e7	4.55e6	2.91e6	6.287e3	4.040e3	1.56	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	5.010e2	5.528e2		
2,3,4,7,8-PeCDF	30:03	ND	ND	ND	ND	5.961e2	4.271e2		
Other PeCDF 1	25:20	2.03e4	1.39e4					1.46	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	2.87e7	1.87e7	4.13e6	2.66e6	4.493e3	2.518e3	1.53	
1,2,3,7,8-PeCDD	30:42	ND	ND	ND	ND	3.379e2	5.482e2		

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	35:10	1.48e7	2.81e7	3.19e6	6.29e6	8.661e2	4.890e3	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	1.86e7	3.67e7	3.68e6	7.09e6	9.483e2	1.550e4	0.51	
2,3,4,6,7,8-HxCDF-13C	36:11	1.71e7	3.36e7	3.69e6	7.12e6	8.661e2	9.101e2	0.51	
1,2,3,7,8,9-HxCDF-13C	37:16	1.59e7	2.95e7	3.03e6	5.70e6	5.845e3	7.076e3	0.54	
1,2,3,4,7,8-HxCDF	35:11	ND	ND	ND	ND	1.074e3	7.310e2		
1,2,3,6,7,8-HxCDF	35:22	ND	ND	ND	ND	1.207e3	7.968e2		
2,3,4,6,7,8-HxCDF	36:12	ND	ND	ND	ND	1.010e3	6.651e2		
1,2,3,7,8,9-HxCDF	37:18	ND	ND	ND	ND	8.739e2	5.181e2		

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Client Name	PASI Wisconsin		
Client ID	MAK112L	Injected By	SMT
Lab ID	10258392023	Instrument ID	10MSHR05 (F)
Filename	F140307A_12	GC Column ID	USD331524H
Analyzed	03/07/2014 12:20	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	36:23	2.10e7	1.73e7	5.27e6	4.22e6	2.271e3	1.106e3	1.22	
1,2,3,6,7,8-HxCDD-13C	36:31	2.52e7	2.00e7	5.19e6	4.09e6	1.161e3	2.228e3	1.26	
1,2,3,7,8,9-HxCDD-13C	36:53	2.97e7	2.43e7	5.90e6	4.84e6	9.879e2	1.365e3	1.22	
1,2,3,4,7,8-HxCDD	36:23	ND	ND	ND	ND	8.002e2	9.108e2		
1,2,3,6,7,8-HxCDD	36:33	ND	ND	ND	ND	8.002e2	1.002e3		
1,2,3,7,8,9-HxCDD	36:54	ND	ND	ND	ND	8.047e2	8.697e2		

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	39:10	1.46e7	3.40e7	2.98e6	6.79e6	6.944e3	1.973e4	0.43	
1,2,3,4,7,8,9-HpCDF-13C	41:06	1.23e7	2.86e7	2.29e6	5.12e6	2.653e3	8.234e3	0.43	
1,2,3,4,6,7,8-HpCDF	39:10	2.71e4	1.71e4	5.81e3	7.74e3	1.531e3	1.226e3	1.59	I
1,2,3,4,7,8,9-HpCDF	41:06	ND	ND	ND	ND	1.315e3	9.816e2		

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	40:34	2.42e7	2.22e7	4.53e6	4.14e6	9.006e3	5.235e3	1.09	
1,2,3,4,6,7,8-HpCDD	40:35	2.29e4	1.70e4	6.61e3	3.48e3	1.231e3	1.173e3	1.34	I
Other HpCDD 1	39:37	3.32e4	3.73e4					0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:13	ND	ND	ND	ND	1.291e3	1.495e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:05	3.37e7	3.73e7	3.89e6	4.37e6	6.047e2	8.944e2	0.90	
OCDD	44:03	8.66e4	8.16e4	1.24e4	8.76e3	1.151e3	1.400e3	1.06	I

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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	MAK115L	Injected By	SMT
Lab ID	10258392024	Instrument ID	10MSHR05 (F)
Filename	F140307A_13	GC Column ID	USD331524H
Analyzed	03/07/2014 13:07	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	19:47	2.03e7	2.60e7	3.49e6	4.44e6	3.777e3	4.366e3	0.78	
2,3,7,8-TCDF	19:49	2.68e4	1.09e4	3.58e3	2.68e3	1.412e3	5.924e2	2.47	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	19:55	2.34e7	3.11e7	4.13e6	5.62e6	4.099e3	2.420e3	0.75	
2,3,7,8-TCDD-13C	20:46	1.75e7	2.28e7	2.83e6	3.78e6	3.474e3	2.575e3	0.77	
2,3,7,8-TCDD-37Cl4	20:47	4.08e6		6.83e5		1.991e3	-----		
2,3,7,8-TCDD	20:48	ND	ND	ND	ND	8.523e2	1.282e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:30	2.70e7	1.68e7	2.95e6	1.90e6	7.389e3	5.094e3	1.61	
2,3,4,7,8-PeCDF-13C	30:01	2.72e7	1.69e7	3.51e6	2.30e6	8.809e3	3.608e3	1.60	
1,2,3,7,8-PeCDF	27:32	ND	ND	ND	ND	5.115e2	5.853e2		
2,3,4,7,8-PeCDF	30:03	ND	ND	ND	ND	5.883e2	6.346e2		
Other PeCDF 1	25:17	3.70e4	2.65e4					1.40	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	30:40	2.35e7	1.44e7	3.33e6	2.04e6	1.560e3	1.236e3	1.63	
1,2,3,7,8-PeCDD	30:41	ND	ND	ND	ND	3.722e2	6.456e2		

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	35:09	1.18e7	2.31e7	2.59e6	5.14e6	7.184e3	1.156e3	0.51	
1,2,3,6,7,8-HxCDF-13C	35:19	1.52e7	2.92e7	3.02e6	5.88e6	1.821e3	1.156e3	0.52	
2,3,4,6,7,8-HxCDF-13C	36:10	1.37e7	2.62e7	2.98e6	5.67e6	1.626e3	1.111e3	0.52	
1,2,3,7,8,9-HxCDF-13C	37:15	1.24e7	2.41e7	2.50e6	4.71e6	3.289e3	8.744e3	0.52	
1,2,3,4,7,8-HxCDF	35:10	ND	ND	ND	ND	4.657e2	5.991e2		
1,2,3,6,7,8-HxCDF	35:21	ND	ND	ND	ND	5.611e2	8.309e2		
2,3,4,6,7,8-HxCDF	36:11	ND	ND	ND	ND	6.675e2	7.021e2		
1,2,3,7,8,9-HxCDF	37:17	ND	ND	ND	ND	5.378e2	8.051e2		

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

Client Name	PASI Wisconsin		
Client ID	MAK115L	Injected By	SMT
Lab ID	10258392024	Instrument ID	10MSHR05 (F)
Filename	F140307A_13	GC Column ID	USD331524H
Analyzed	03/07/2014 13:07	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	36:22	1.72e7	1.35e7	3.87e6	3.25e6	3.141e3	1.874e3	1.28	
1,2,3,6,7,8-HxCDD-13C	36:30	2.03e7	1.61e7	4.29e6	3.44e6	3.130e3	1.249e3	1.26	
1,2,3,7,8,9-HxCDD-13C	36:51	2.53e7	1.97e7	5.13e6	4.10e6	3.130e3	1.874e3	1.28	
1,2,3,4,7,8-HxCDD	36:25	1.24e4	2.25e4	2.78e3	6.18e3	8.495e2	1.274e3	0.55	I
1,2,3,6,7,8-HxCDD	36:32	ND	ND	ND	ND	7.900e2	1.443e3		
1,2,3,7,8,9-HxCDD	36:53	ND	ND	ND	ND	6.008e2	1.322e3		

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	39:09	1.20e7	2.66e7	2.60e6	5.41e6	2.572e3	5.359e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:04	9.93e6	2.30e7	1.93e6	4.38e6	4.751e3	4.732e3	0.43	
1,2,3,4,6,7,8-HpCDF	39:10	ND	ND	ND	ND	1.134e3	5.740e2		
1,2,3,4,7,8,9-HpCDF	41:04	ND	ND	ND	ND	1.002e3	4.108e2		

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	40:31	1.82e7	1.66e7	3.52e6	3.13e6	7.097e2	9.615e3	1.09	
1,2,3,4,6,7,8-HpCDD	40:33	9.50e3	1.20e4	4.87e3	7.79e3	1.273e3	8.752e2	0.79	I
Other HpCDD 1	39:34	1.49e4	1.33e4					1.12	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:10	ND	ND	ND	ND	7.890e2	1.049e3		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:01	2.51e7	2.86e7	3.19e6	3.35e6	9.770e2	7.948e2	0.88	
OCDD	44:02	5.09e4	5.71e4	8.61e3	9.74e3	1.205e3	1.733e3	0.89	

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Appendix E

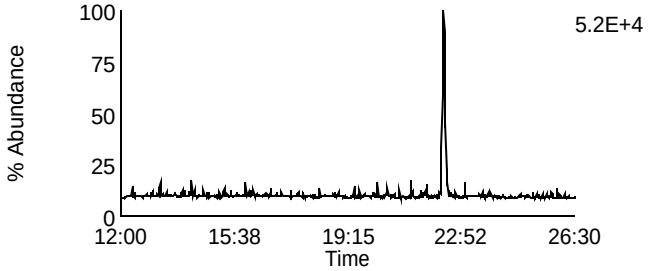
Calibration Raw Data

Homologue Group: Tetras

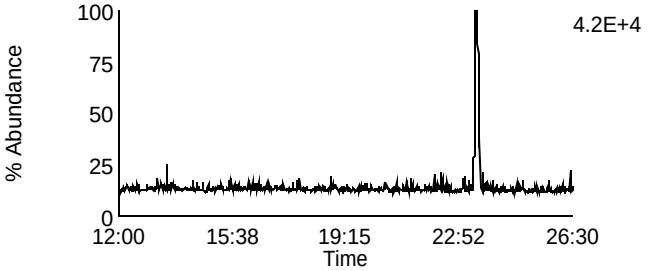
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

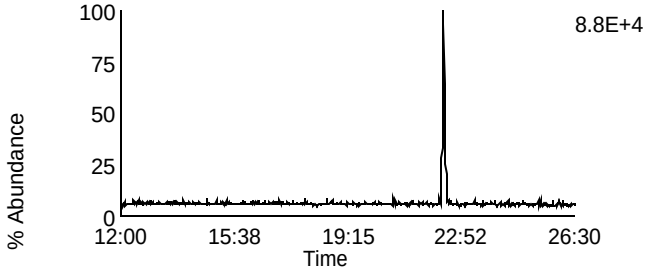
Data File: F131125C_03 G1 C1 - 303.9016
CAL CS1-7604-273 - BAL



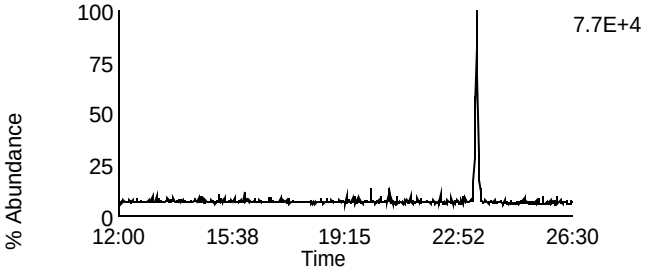
Data File: F131125C_03 G1 C7 - 319.8965
CAL CS1-7604-273 - BAL



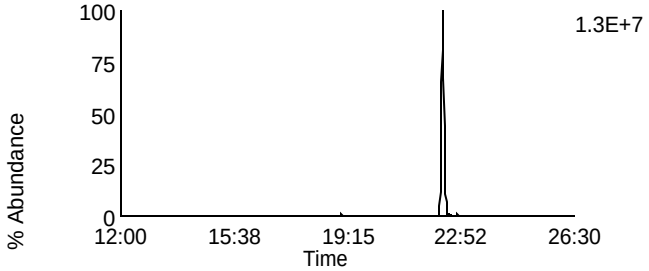
Data File: F131125C_03 G1 C2 - 305.8987
CAL CS1-7604-273 - BAL



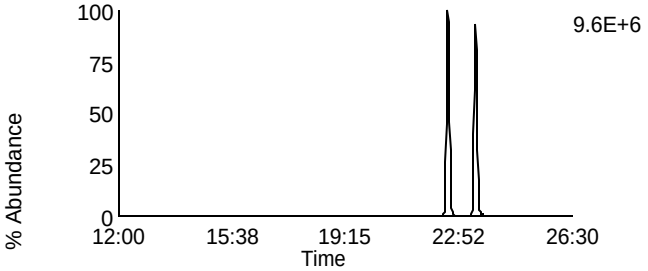
Data File: F131125C_03 G1 C8 - 321.8936
CAL CS1-7604-273 - BAL



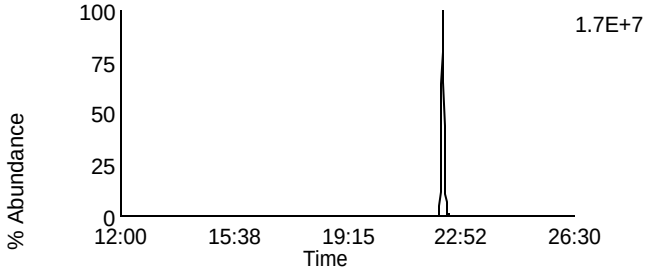
Data File: F131125C_03 G1 C3 - 315.9418
CAL CS1-7604-273 - BAL



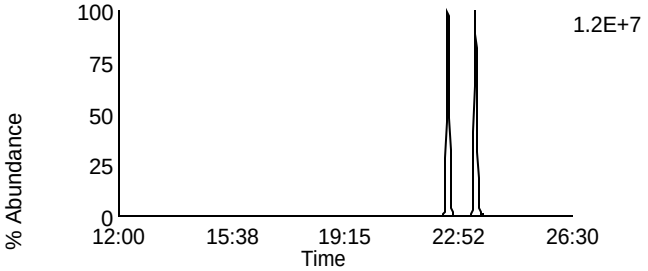
Data File: F131125C_03 G1 C10 - 331.9367
CAL CS1-7604-273 - BAL



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



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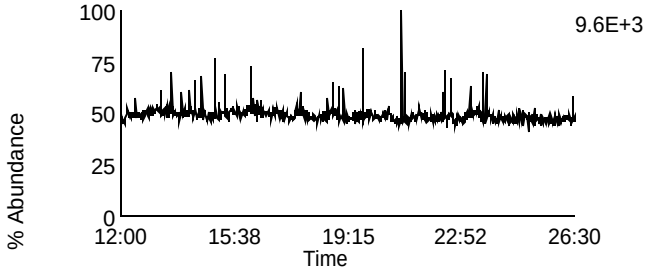
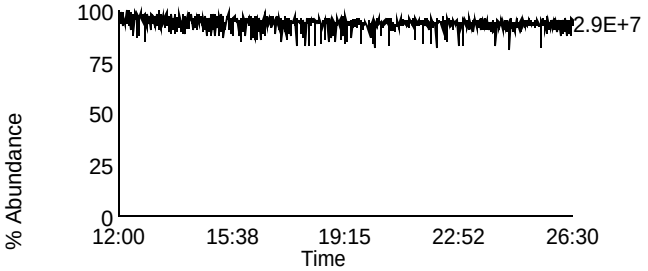
CAL CS1-7604-273 - BAL



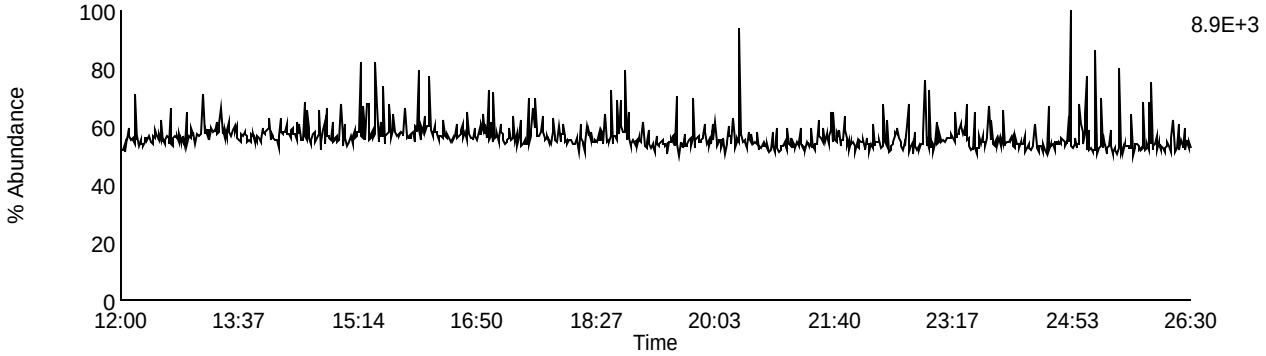
Data File: F131125C_03 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL



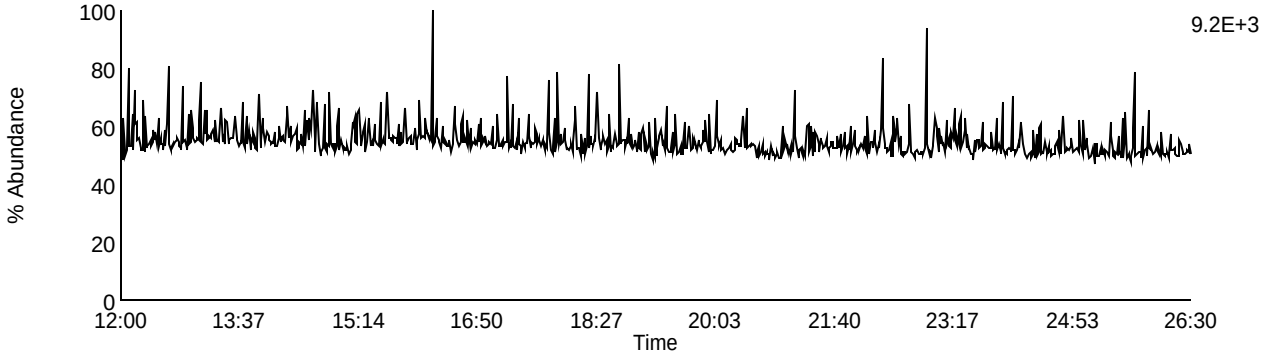
Homologue Group: Penta & Cleanup

Data File Name: F131125C_03	Lab Sample ID: CS1-7604-273
Date Acquired: 11/25/2013	Client Sample ID:
Sample Description: CAL CS1-7604-273 - BAL	Instrument: 10MSHR05 (F)

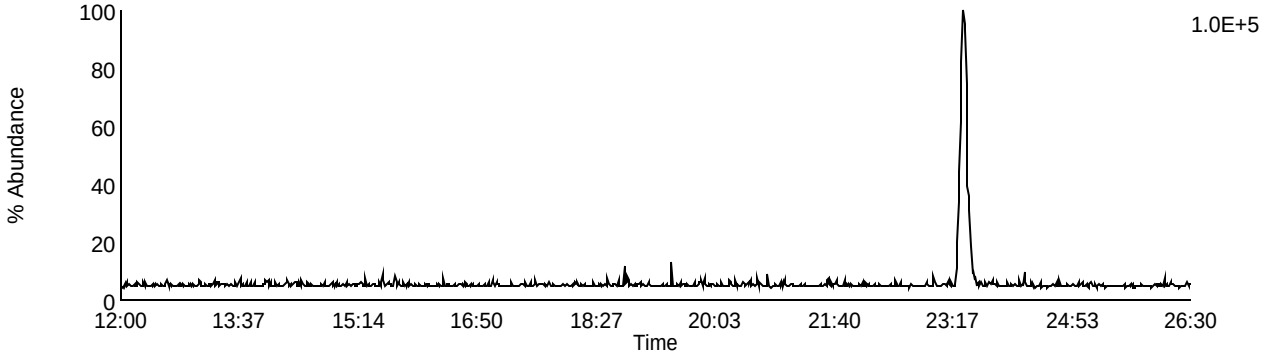
Data File: F131125C_03 G1 C12 - 339.8597
CAL CS1-7604-273 - BAL



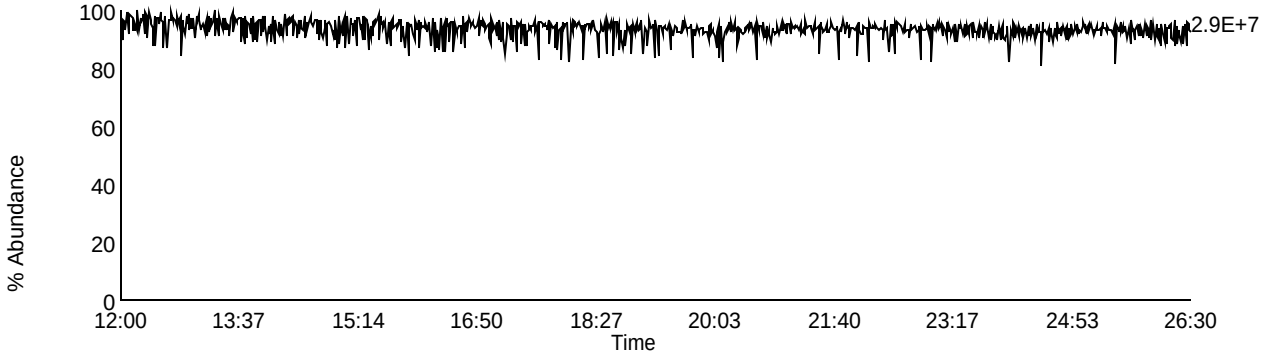
Data File: F131125C_03 G1 C13 - 341.8567
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C9 - 327.8847
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL

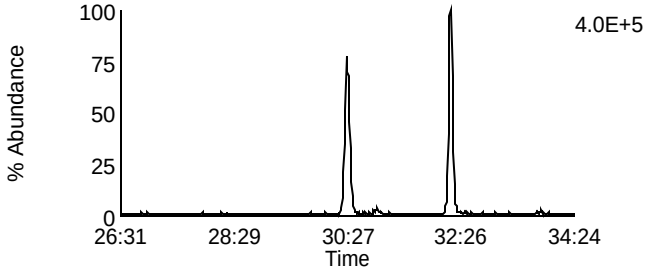


Homologue Group: Pentas

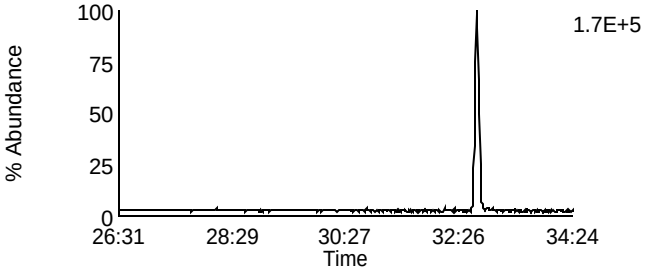
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

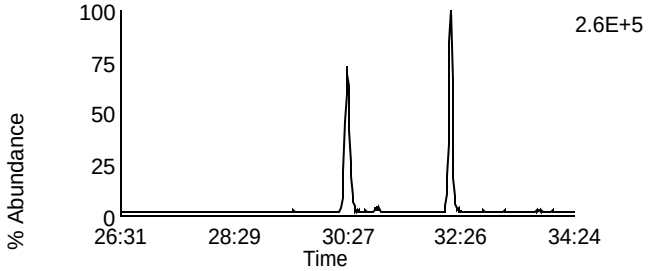
Data File: F131125C_03 G2 C1 - 339.8597
CAL CS1-7604-273 - BAL



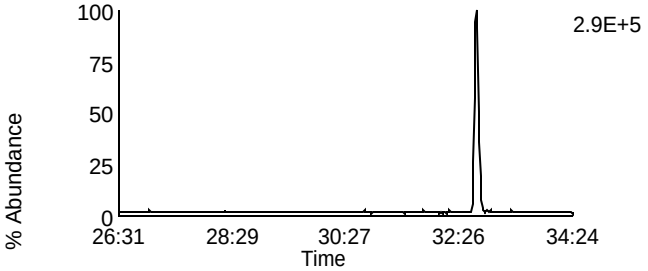
Data File: F131125C_03 G2 C4 - 353.8576
CAL CS1-7604-273 - BAL



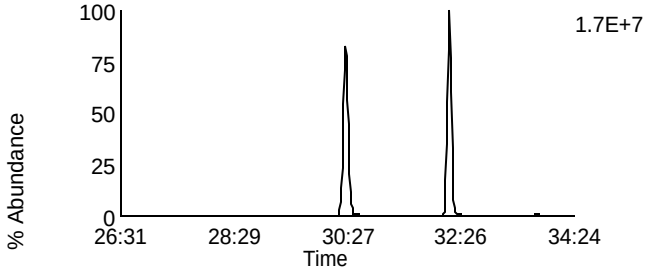
Data File: F131125C_03 G2 C2 - 341.8567
CAL CS1-7604-273 - BAL



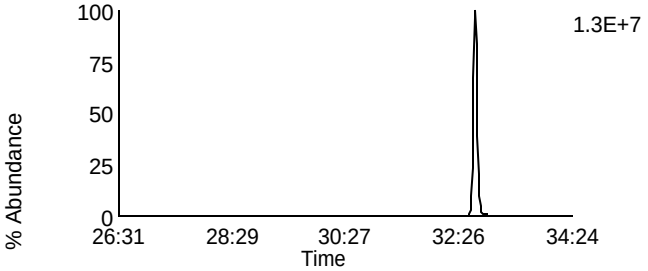
Data File: F131125C_03 G2 C8 - 355.8546
CAL CS1-7604-273 - BAL



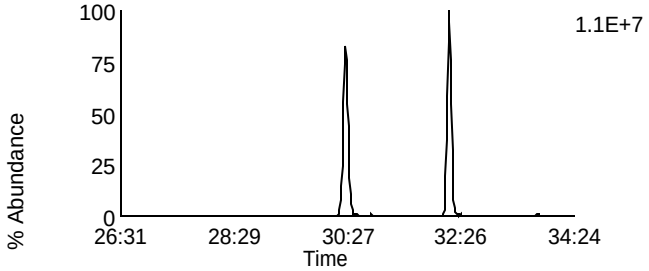
Data File: F131125C_03 G2 C3 - 351.8999
CAL CS1-7604-273 - BAL



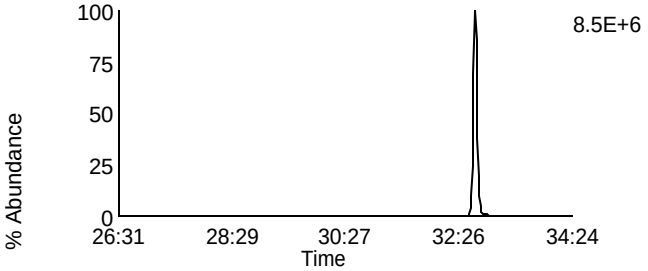
Data File: F131125C_03 G2 C10 - 367.8948
CAL CS1-7604-273 - BAL



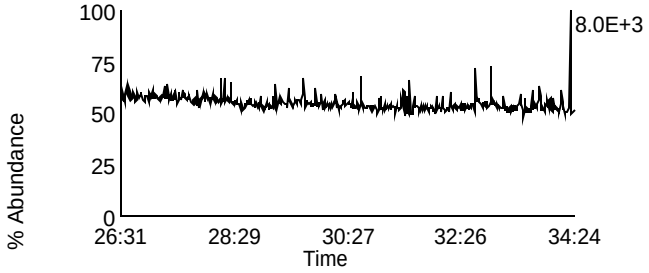
Data File: F131125C_03 G2 C5 - 353.8969
CAL CS1-7604-273 - BAL



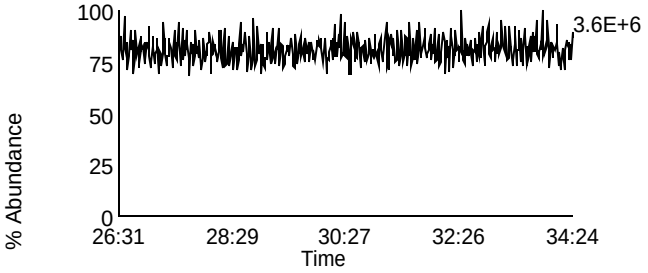
Data File: F131125C_03 G2 C11 - 369.8918
CAL CS1-7604-273 - BAL



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

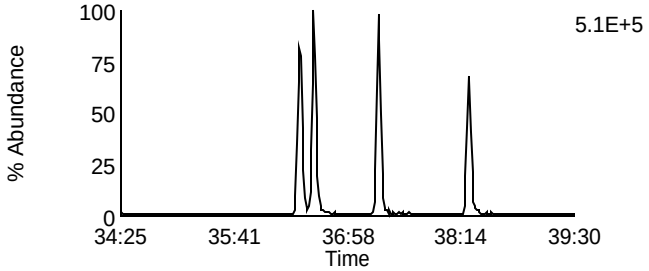


Homologue Group: Hexas

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



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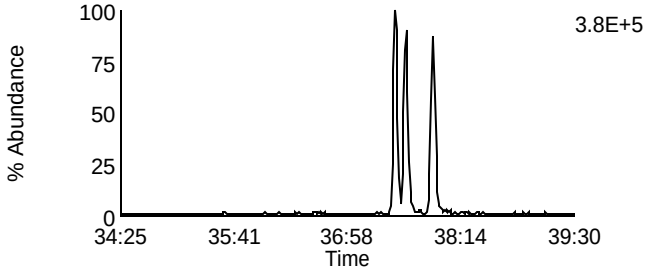
CAL CS1-7604-273 - BAL



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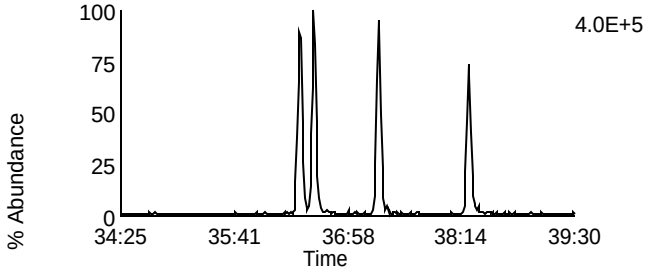
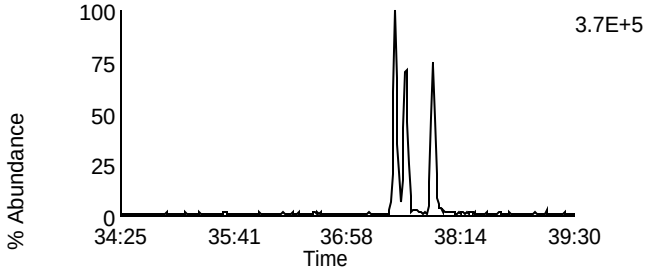
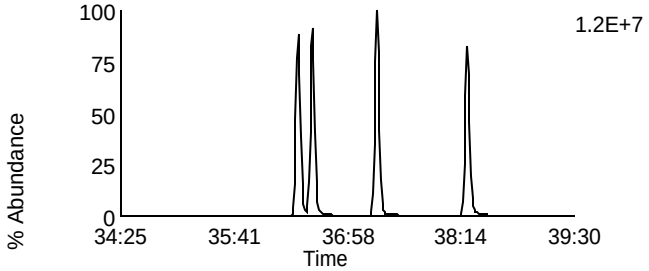
CAL CS1-7604-273 - BAL



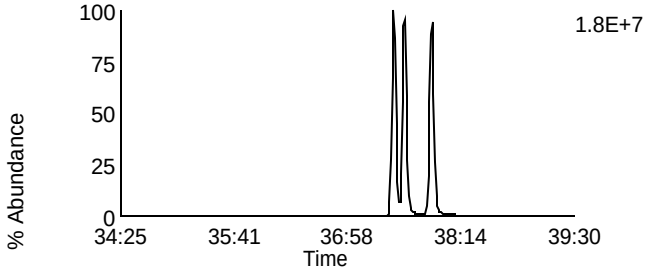
Data File: F131125C_03 G3 C8 - 391.8127
CAL CS1-7604-273 - BAL



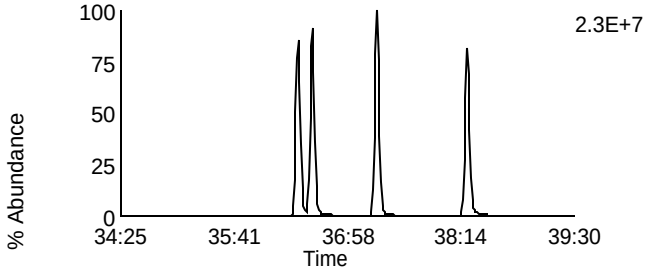
Data File: F131125C_03 G3 C5 - 383.8639
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C9 - 401.8559
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C6 - 385.861
CAL CS1-7604-273 - BAL



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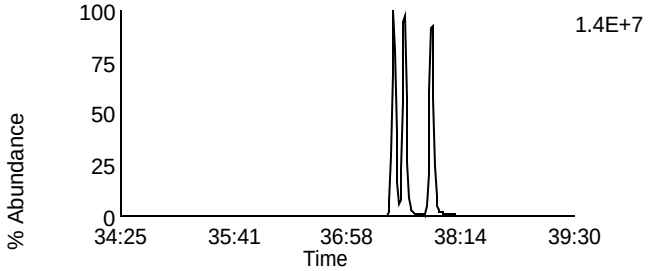
CAL CS1-7604-273 - BAL



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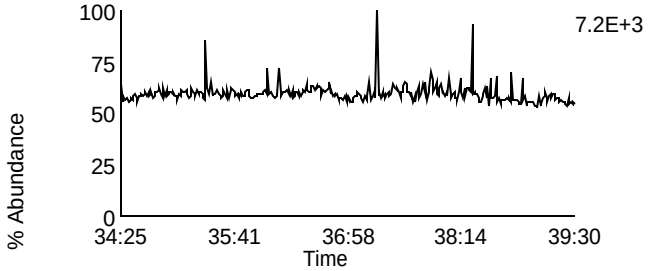
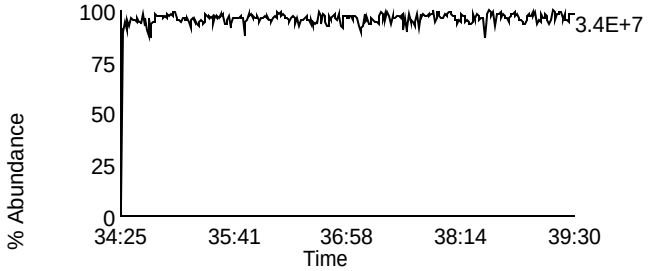
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G3 C3 - 380.976
CAL CS1-7604-273 - BAL

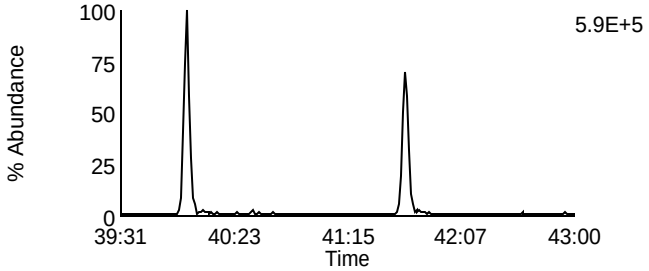


Homologue Group: Heptas

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



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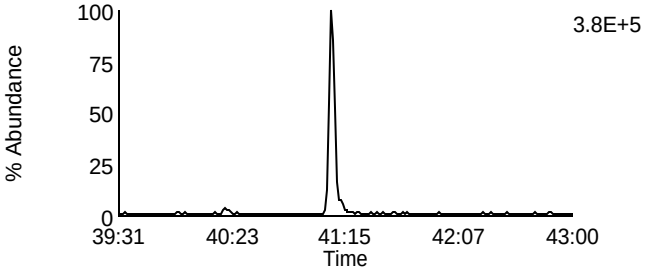
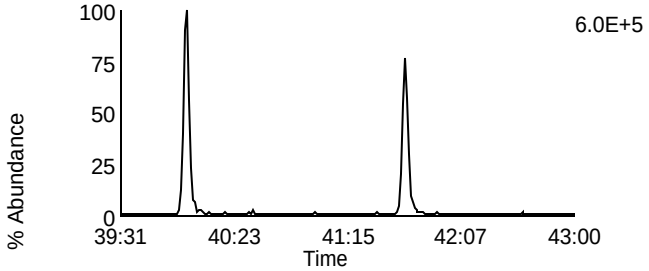
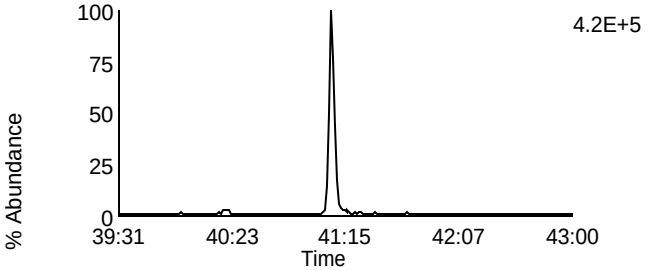
CAL CS1-7604-273 - BAL



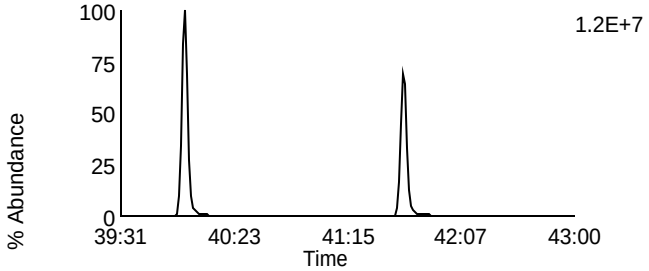
Data File: F131125C_03 G4 C4 - 409.7788
CAL CS1-7604-273 - BAL



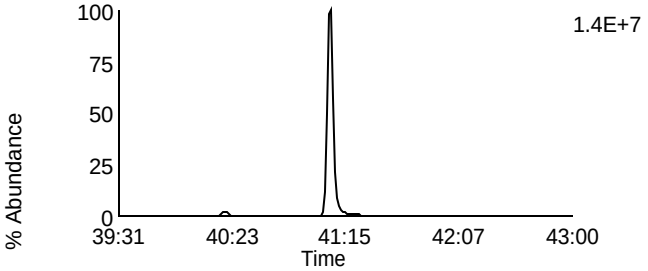
Data File: F131125C_03 G4 C9 - 425.7737
CAL CS1-7604-273 - BAL



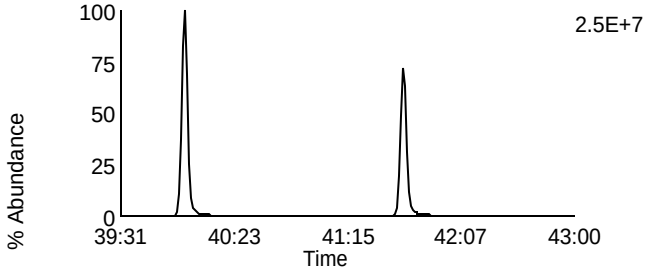
Data File: F131125C_03 G4 C6 - 417.825
CAL CS1-7604-273 - BAL



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



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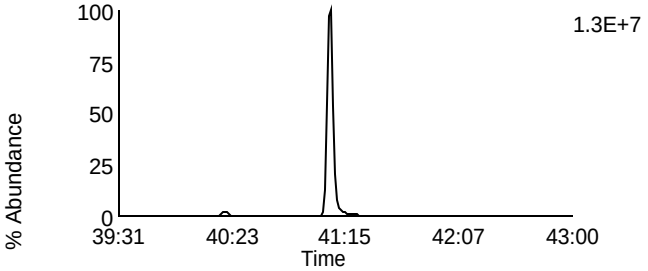
CAL CS1-7604-273 - BAL



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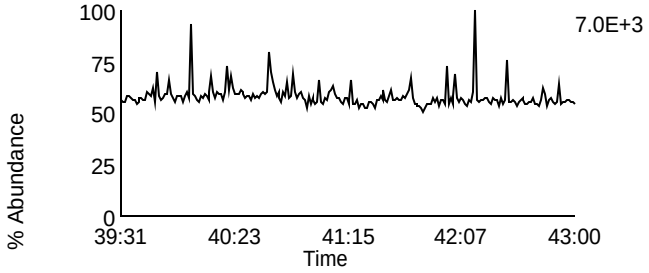
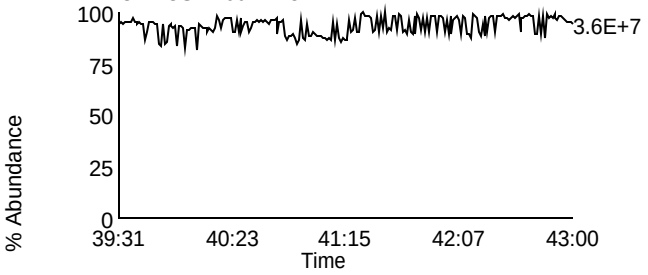
CAL CS1-7604-273 - BAL



Data File: F131125C_03 G4 C1 - 380.976
CAL CS1-7604-273 - BAL

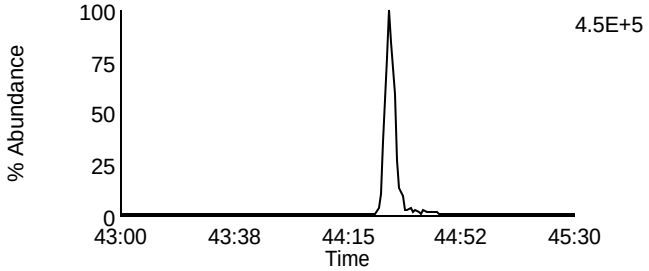


Homologue Group: Octas

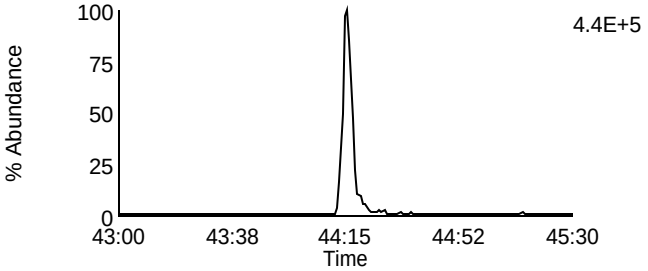
Data File Name: F131125C_03
Date Acquired: 11/25/2013
Sample Description: CAL CS1-7604-273 - BAL

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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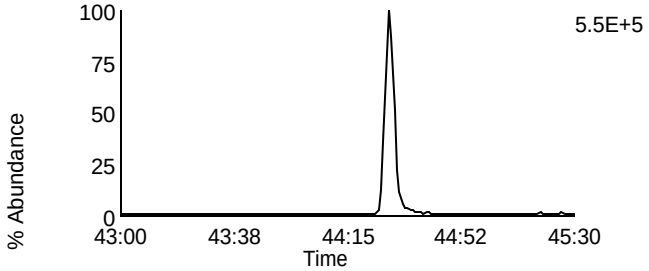
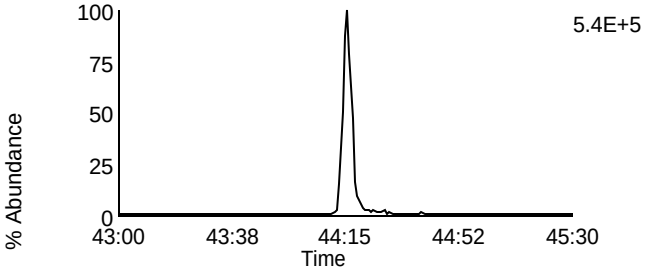
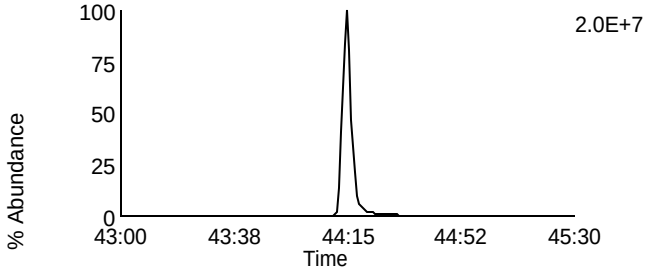
CAL CS1-7604-273 - BAL



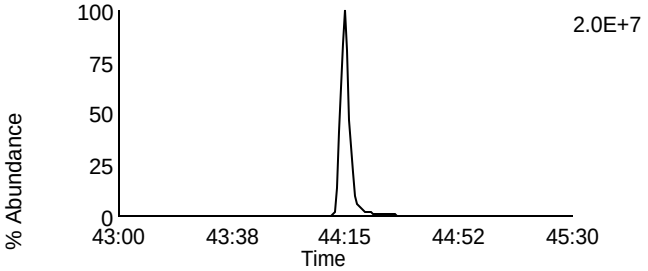
Data File: F131125C_03 G5 C9 - 459.7347
CAL CS1-7604-273 - BAL



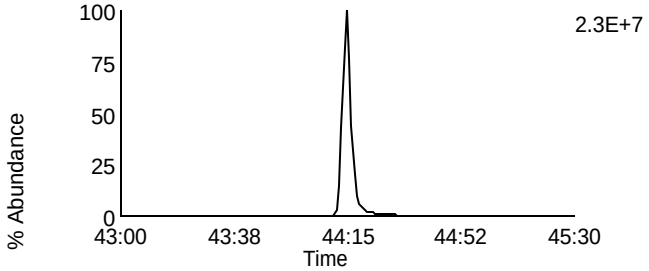
Data File: F131125C_03 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



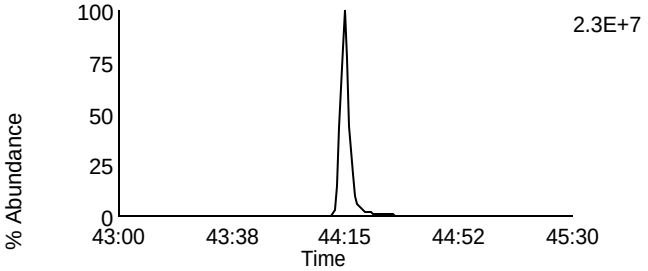
Data File: F131125C_03 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



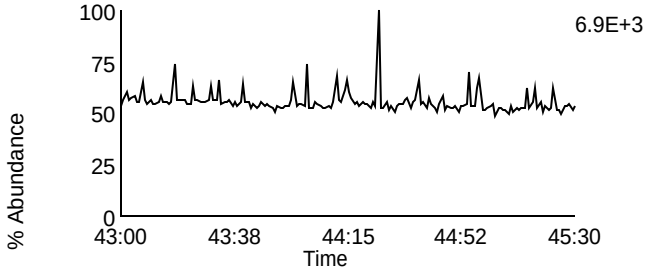
Data File: F131125C_03 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



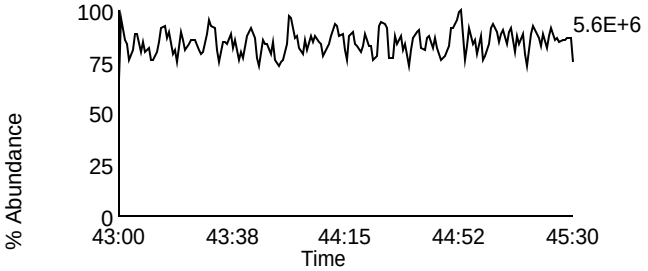
Data File: F131125C_03 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



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

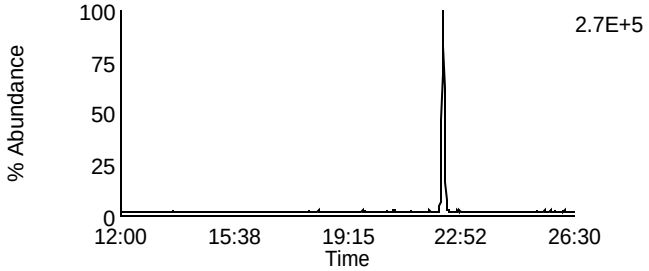


Homologue Group: Tetras

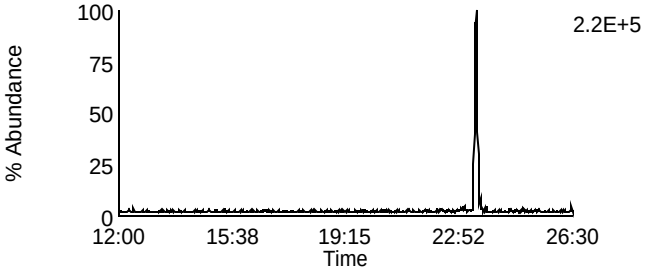
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

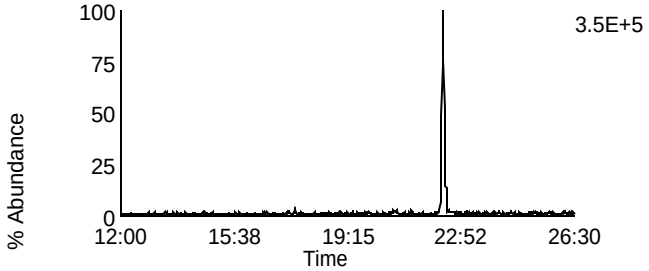
Data File: F131125C_02 G1 C1 - 303.9016
CAL CS2-7604-276 - BAL



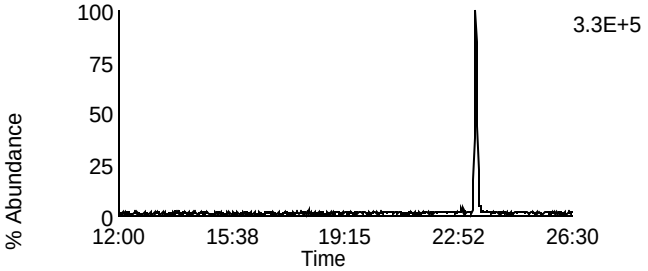
Data File: F131125C_02 G1 C7 - 319.8965
CAL CS2-7604-276 - BAL



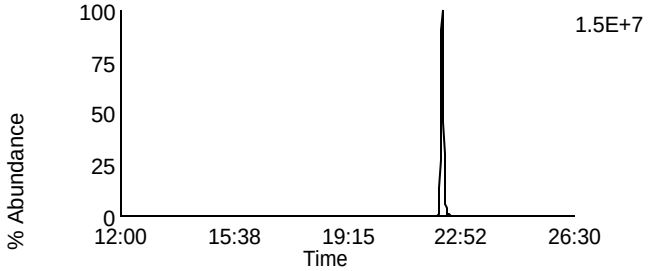
Data File: F131125C_02 G1 C2 - 305.8987
CAL CS2-7604-276 - BAL



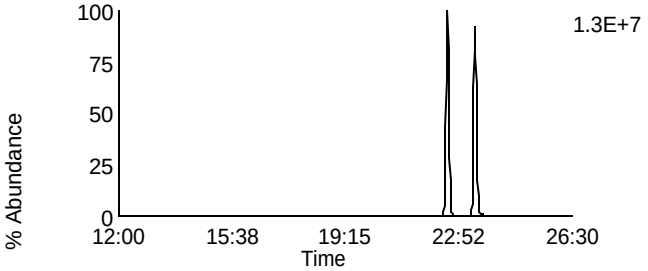
Data File: F131125C_02 G1 C8 - 321.8936
CAL CS2-7604-276 - BAL



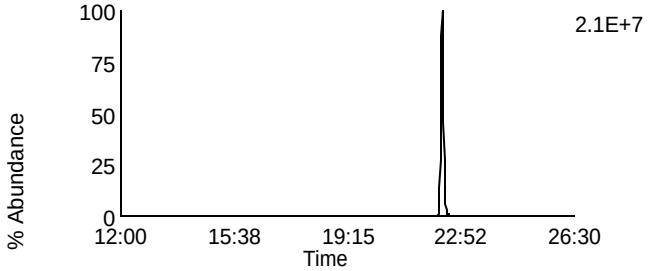
Data File: F131125C_02 G1 C3 - 315.9418
CAL CS2-7604-276 - BAL



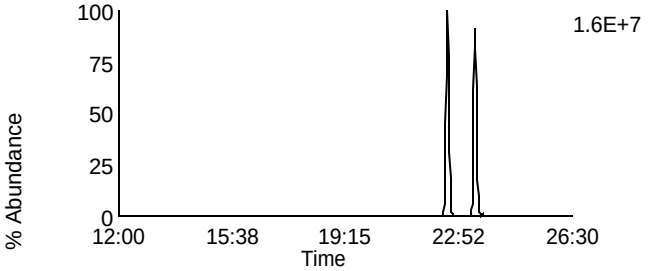
Data File: F131125C_02 G1 C10 - 331.9367
CAL CS2-7604-276 - BAL



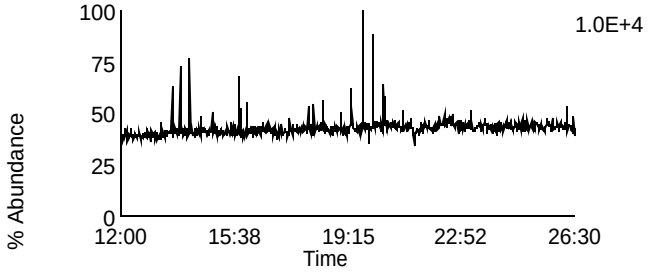
Data File: F131125C_02 G1 C4 - 317.9389
CAL CS2-7604-276 - BAL



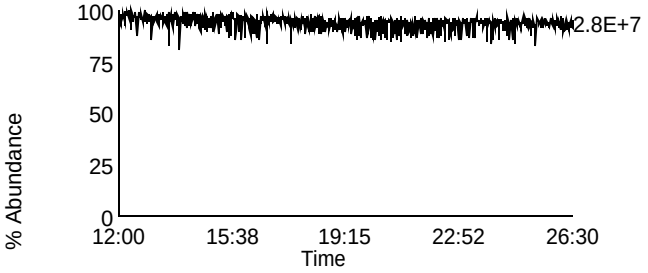
Data File: F131125C_02 G1 C11 - 333.9338
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G1 C14 - 375.8364
CAL CS2-7604-276 - BAL



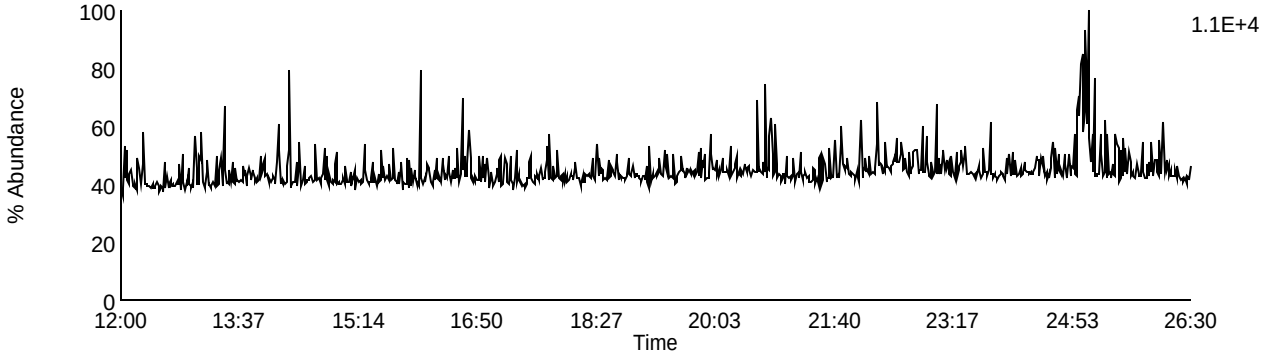
Data File: F131125C_02 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL



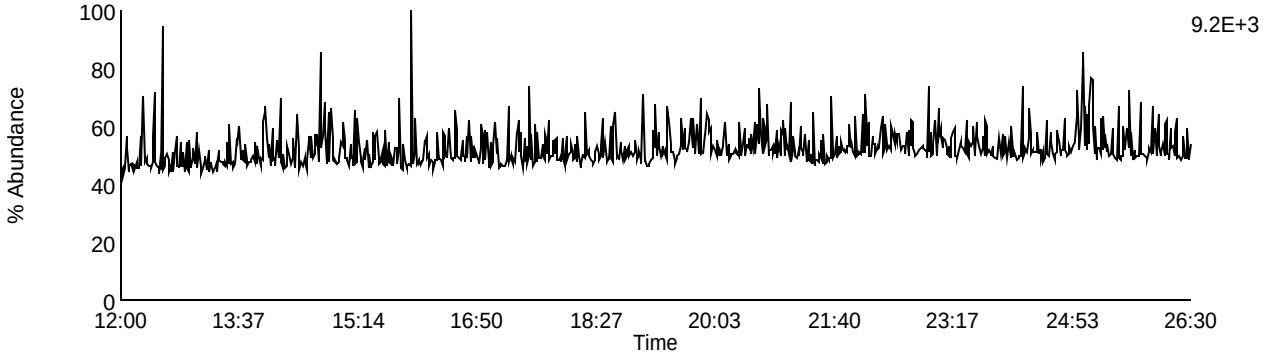
Homologue Group: Penta & Cleanup

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)

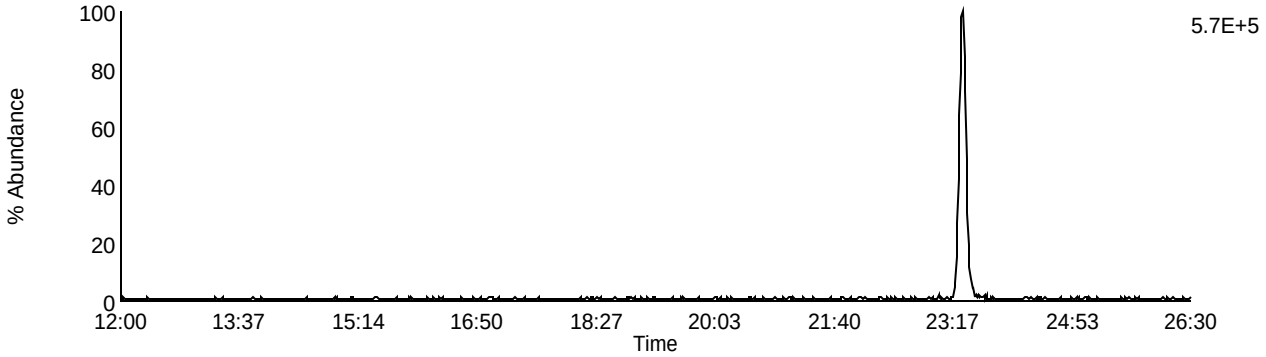
Data File: F131125C_02 G1 C12 - 339.8597
CAL CS2-7604-276 - BAL



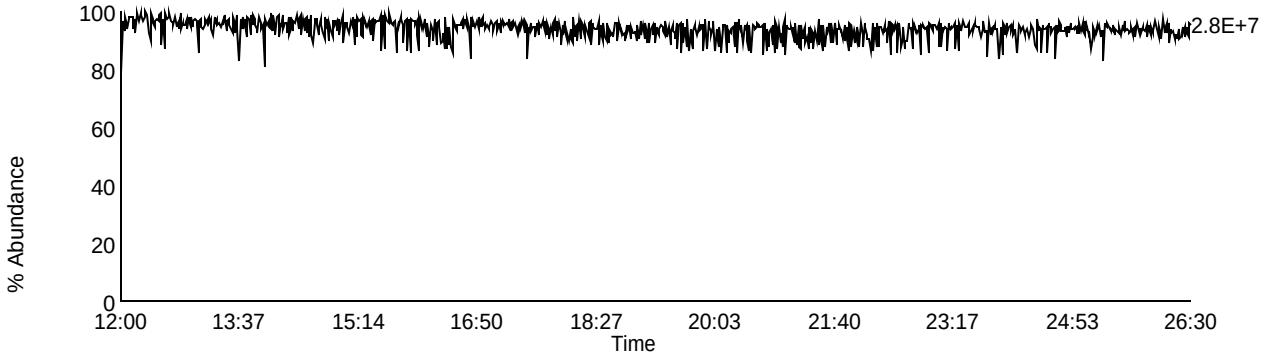
Data File: F131125C_02 G1 C13 - 341.8567
CAL CS2-7604-276 - BAL



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

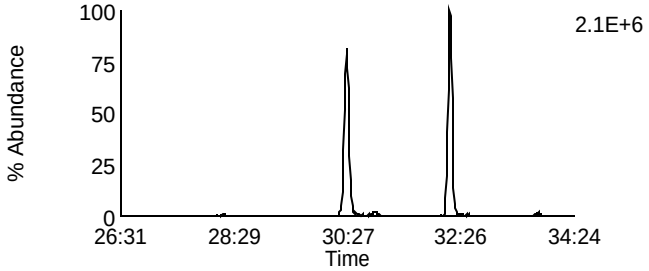


Homologue Group: Pentas

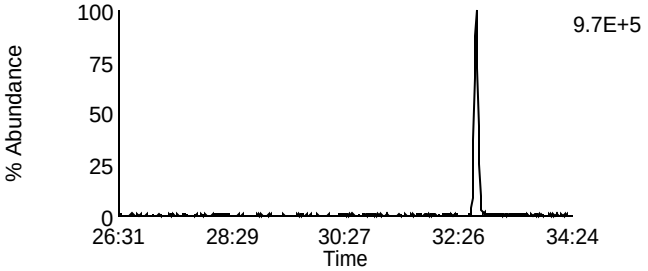
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

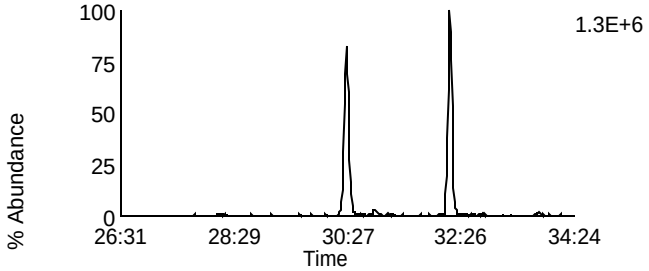
Data File: F131125C_02 G2 C1 - 339.8597
CAL CS2-7604-276 - BAL



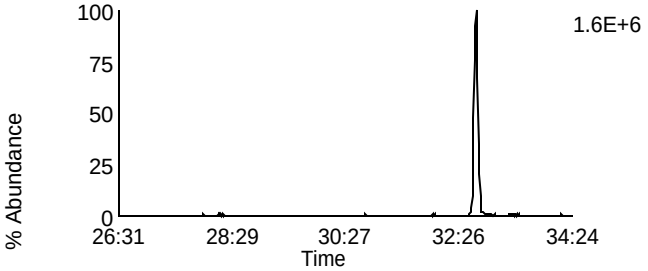
Data File: F131125C_02 G2 C4 - 353.8576
CAL CS2-7604-276 - BAL



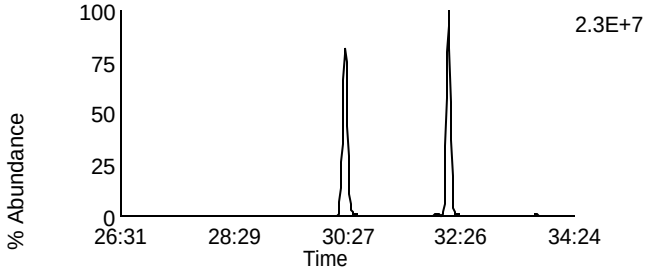
Data File: F131125C_02 G2 C2 - 341.8567
CAL CS2-7604-276 - BAL



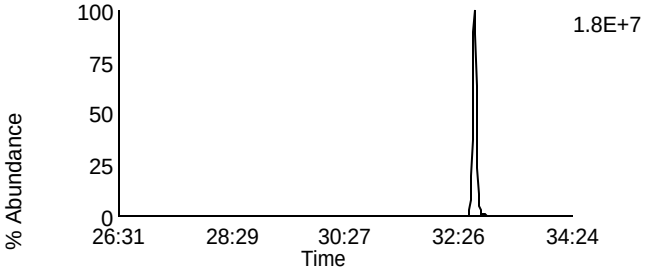
Data File: F131125C_02 G2 C8 - 355.8546
CAL CS2-7604-276 - BAL



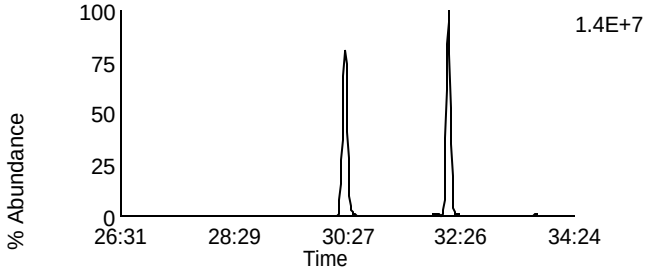
Data File: F131125C_02 G2 C3 - 351.8999
CAL CS2-7604-276 - BAL



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



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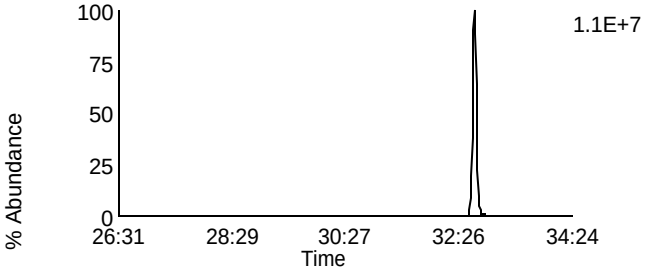
CAL CS2-7604-276 - BAL



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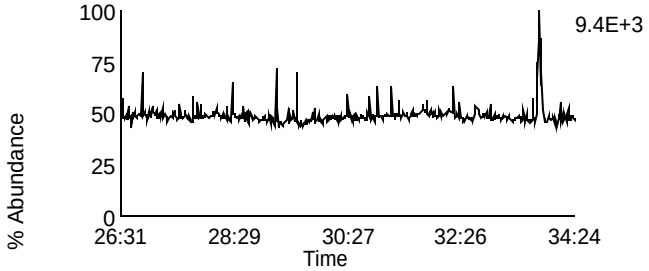
CAL CS2-7604-276 - BAL



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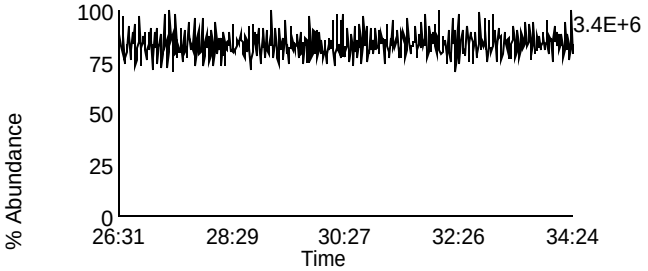
CAL CS2-7604-276 - BAL

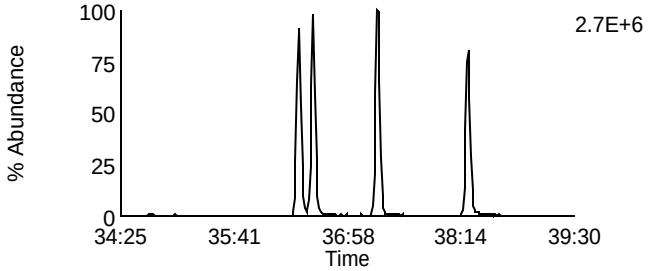


Homologue Group: Hexas

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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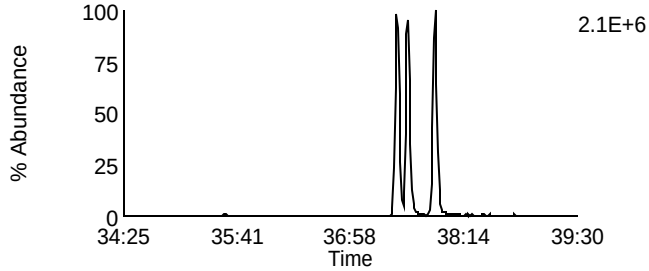
CAL CS2-7604-276 - BAL



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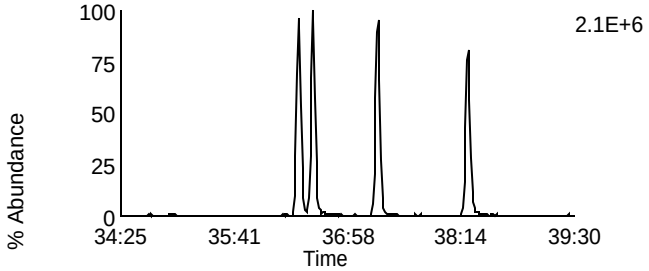
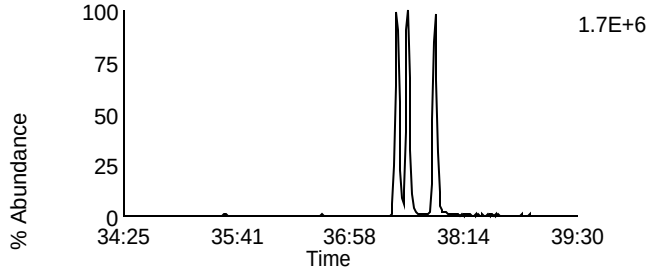
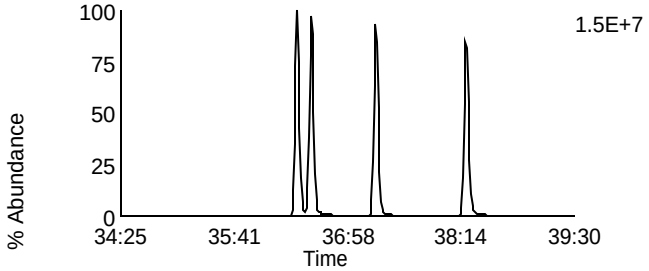
CAL CS2-7604-276 - BAL



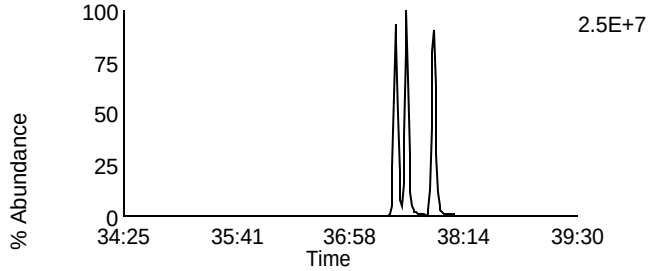
Data File: F131125C_02 G3 C8 - 391.8127
CAL CS2-7604-276 - BAL



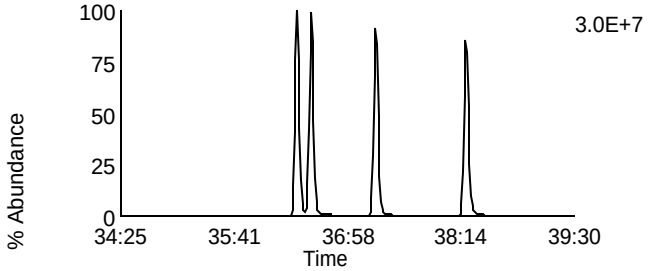
Data File: F131125C_02 G3 C5 - 383.8639
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C9 - 401.8559
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C6 - 385.861
CAL CS2-7604-276 - BAL



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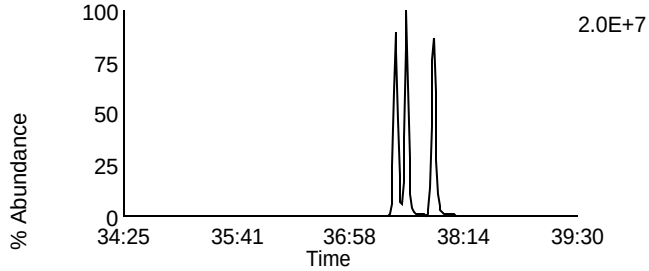
CAL CS2-7604-276 - BAL



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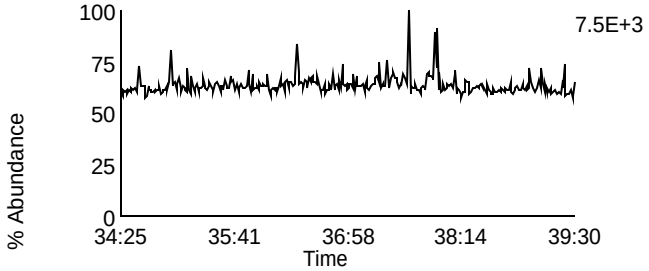
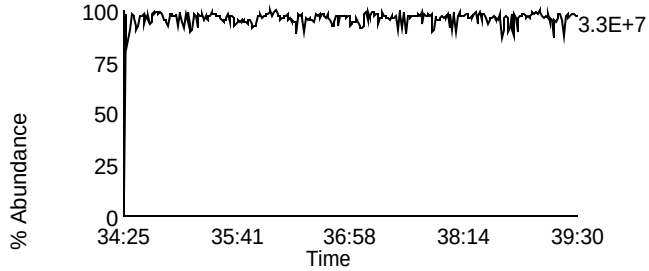
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G3 C3 - 380.976
CAL CS2-7604-276 - BAL

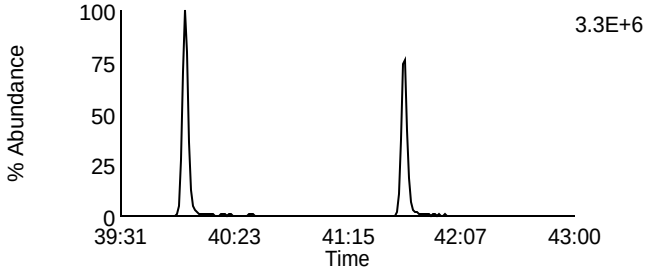


Homologue Group: Heptas

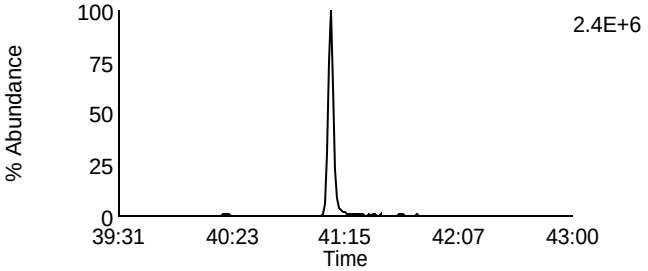
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

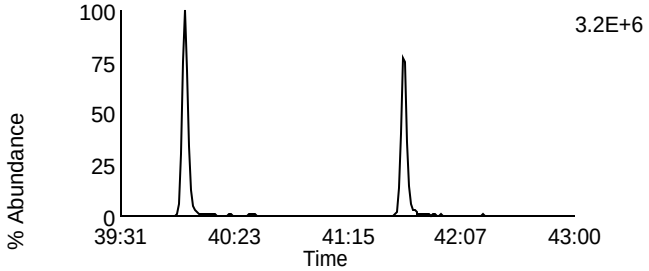
Data File: F131125C_02 G4 C3 - 407.7818
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C8 - 423.7767
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C4 - 409.7788
CAL CS2-7604-276 - BAL



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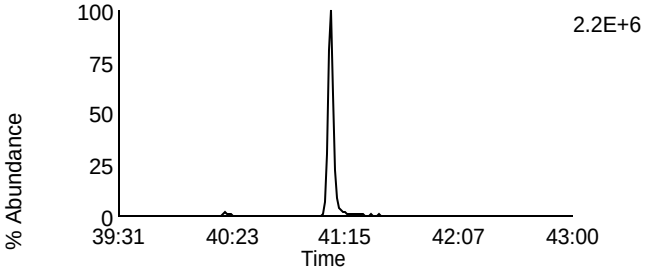
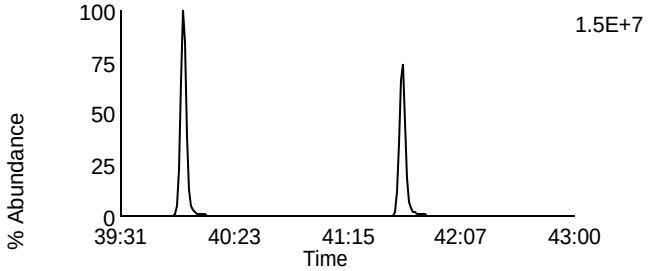
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C6 - 417.825
CAL CS2-7604-276 - BAL



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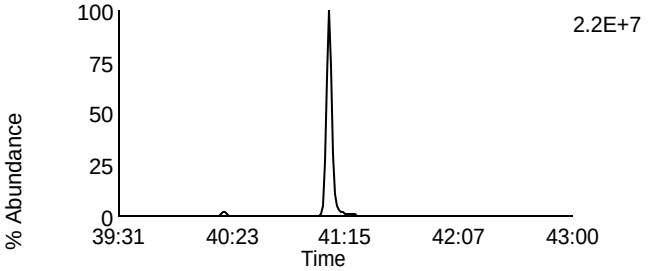
CAL CS2-7604-276 - BAL



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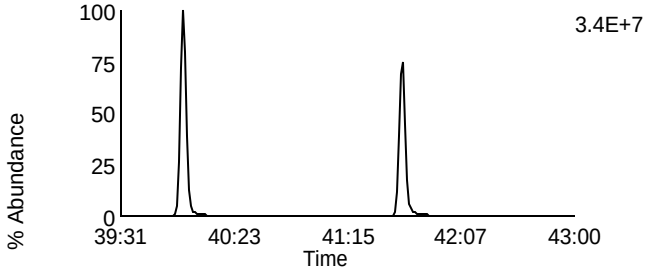
CAL CS2-7604-276 - BAL



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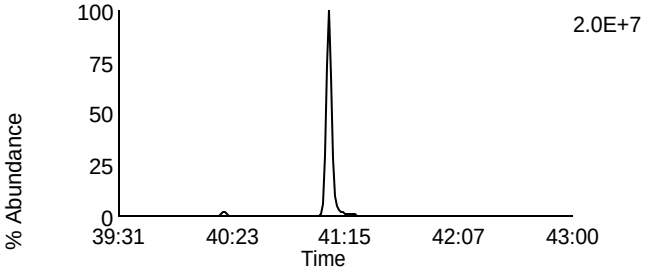
CAL CS2-7604-276 - BAL



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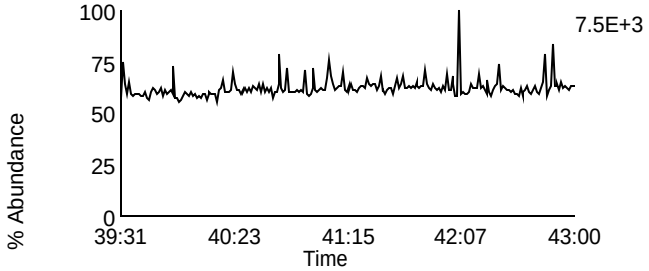
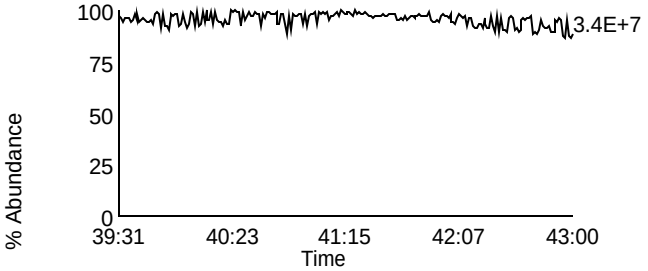
CAL CS2-7604-276 - BAL



Data File: F131125C_02 G4 C1 - 380.976
CAL CS2-7604-276 - BAL

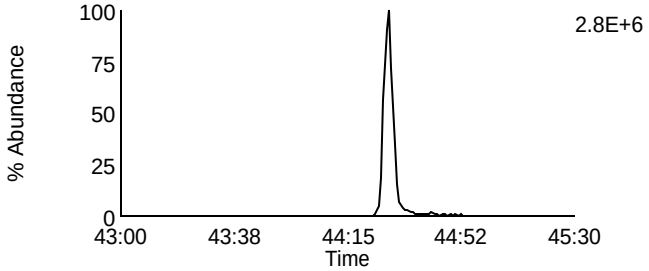


Homologue Group: Octas

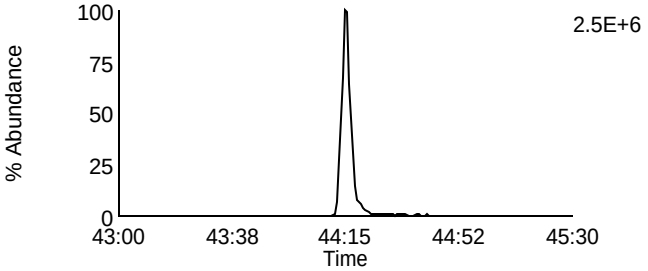
Data File Name: F131125C_02
Date Acquired: 11/25/2013
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

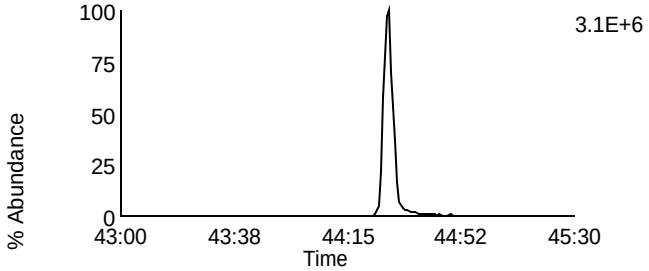
Data File: F131125C_02 G5 C4 - 441.7428
CAL CS2-7604-276 - BAL



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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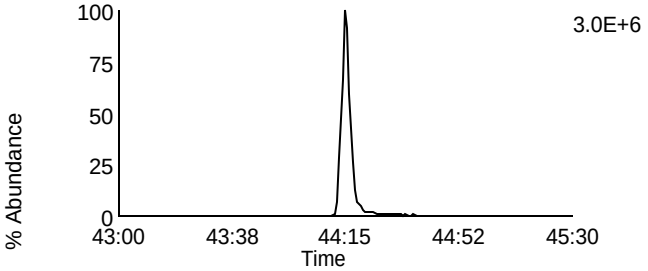
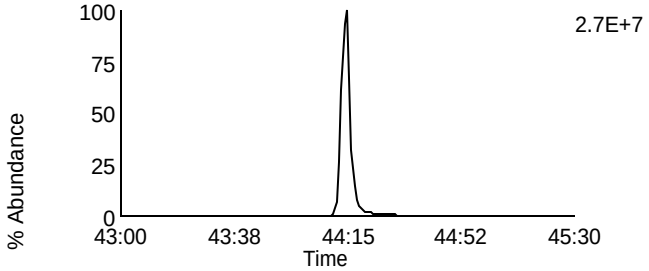
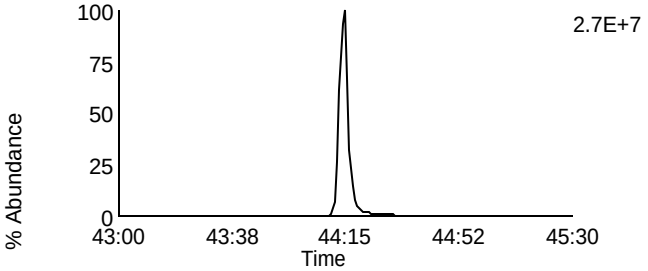
CAL CS2-7604-276 - BAL



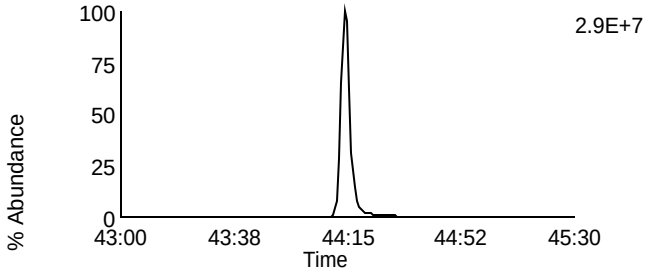
Data File: F131125C_02 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



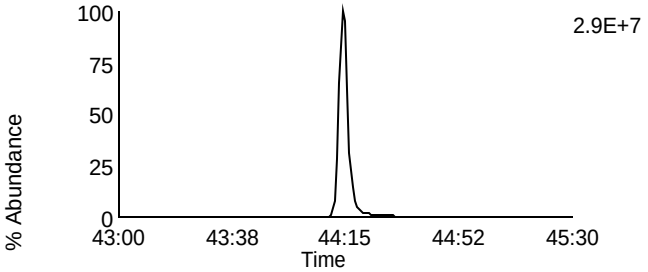
Data File: F131125C_02 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



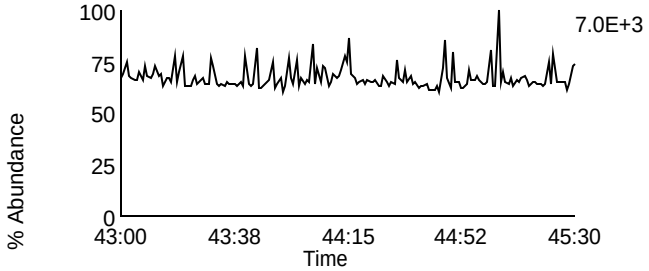
Data File: F131125C_02 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



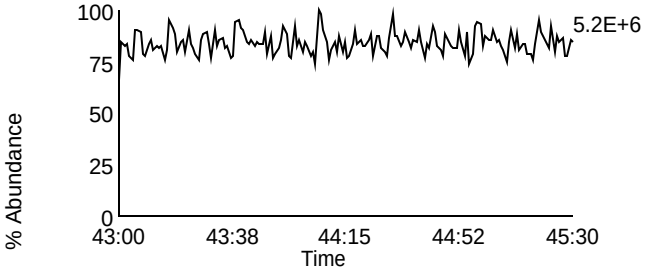
Data File: F131125C_02 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



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

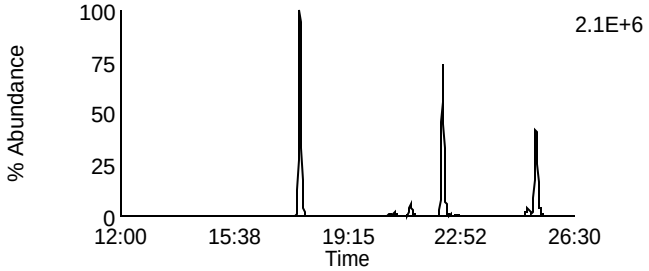


Homologue Group: Tetras

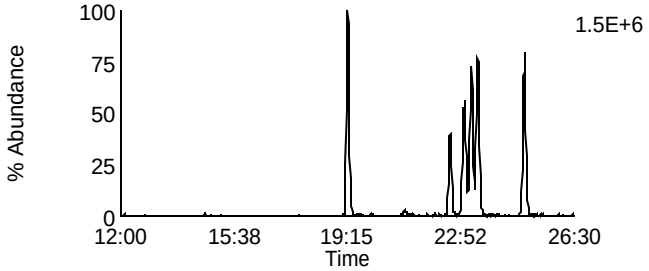
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

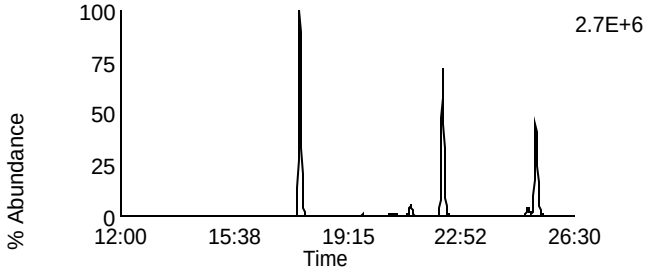
Data File: F131125C_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-288 - BAL USD331524H



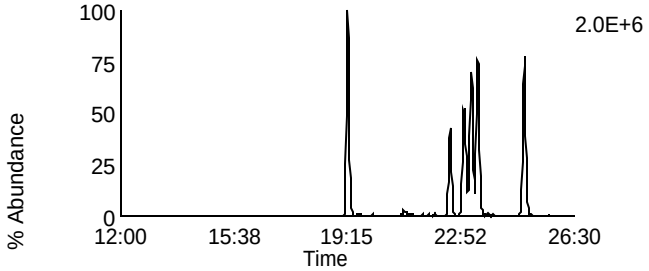
Data File: F131125C_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-288 - BAL USD331524H



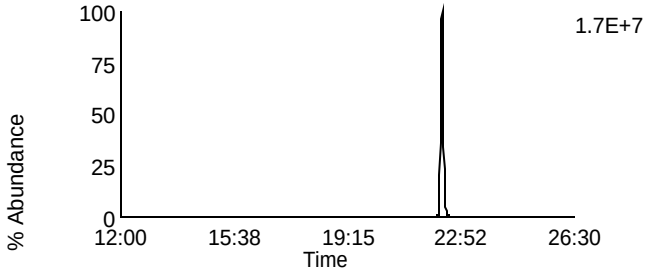
Data File: F131125C_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-288 - BAL USD331524H



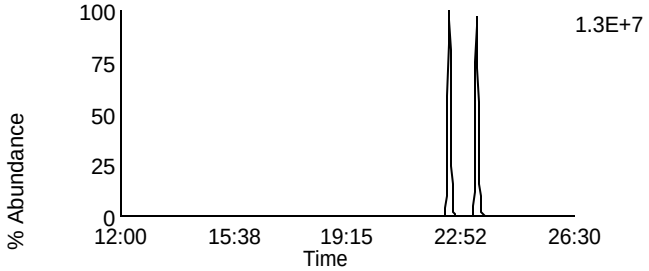
Data File: F131125C_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-288 - BAL USD331524H



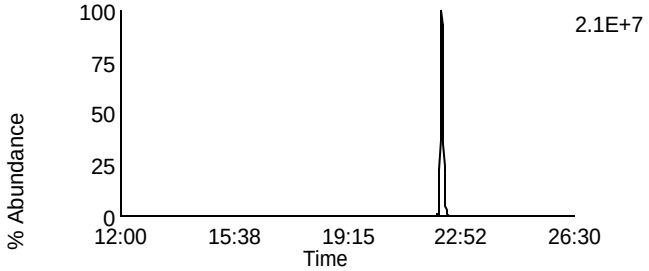
Data File: F131125C_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-288 - BAL USD331524H



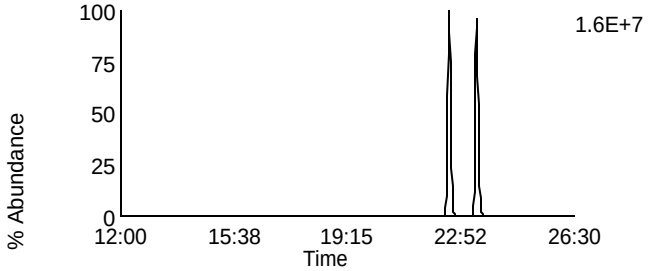
Data File: F131125C_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-288 - BAL USD331524H



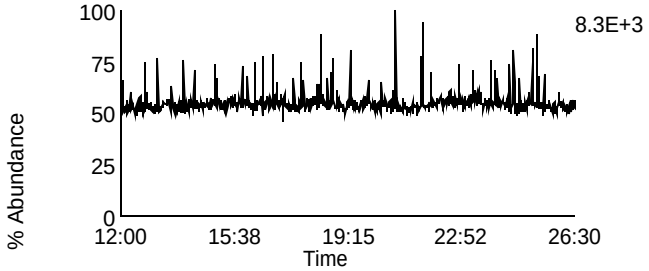
Data File: F131125C_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-288 - BAL USD331524H



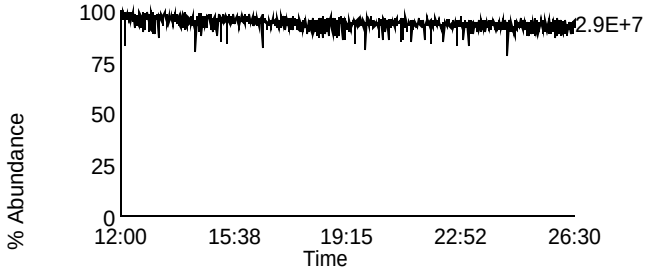
Data File: F131125C_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-288 - BAL USD331524H



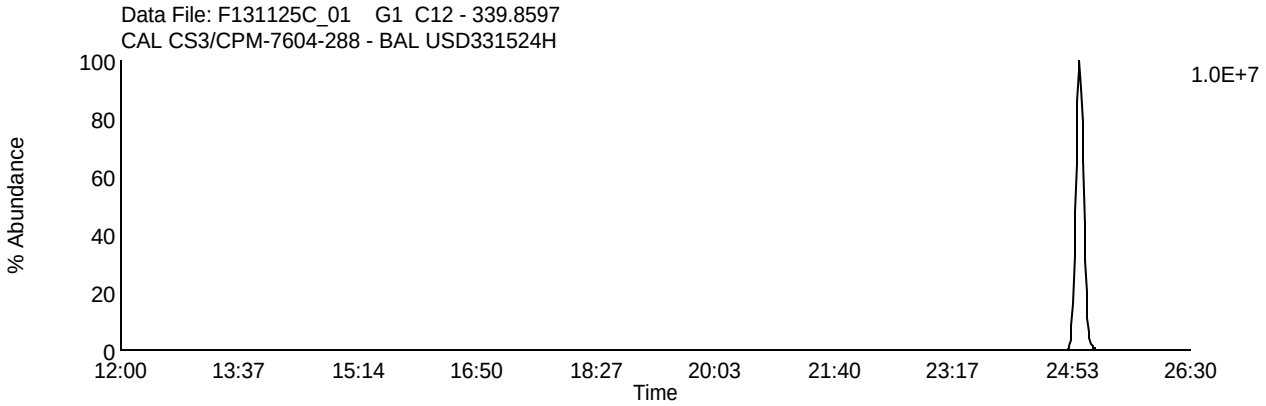
Data File: F131125C_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

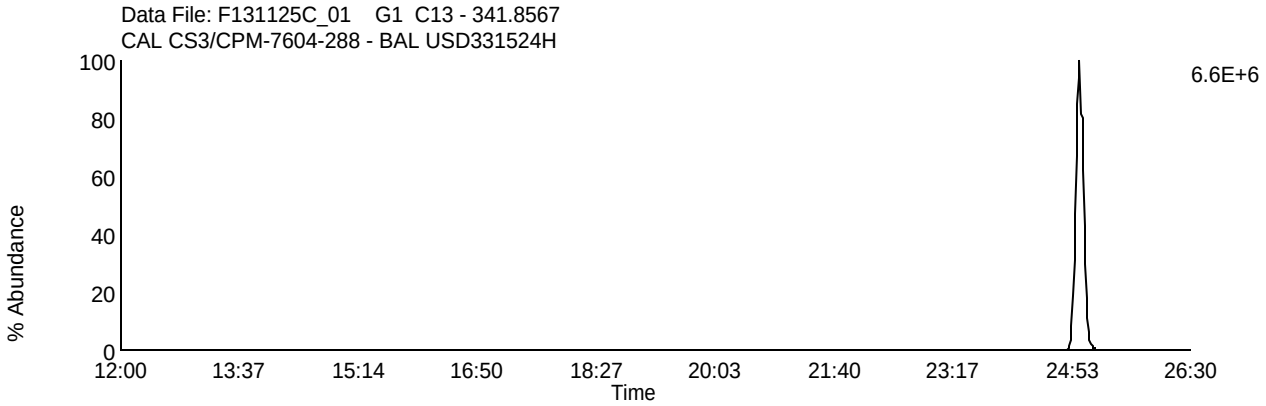


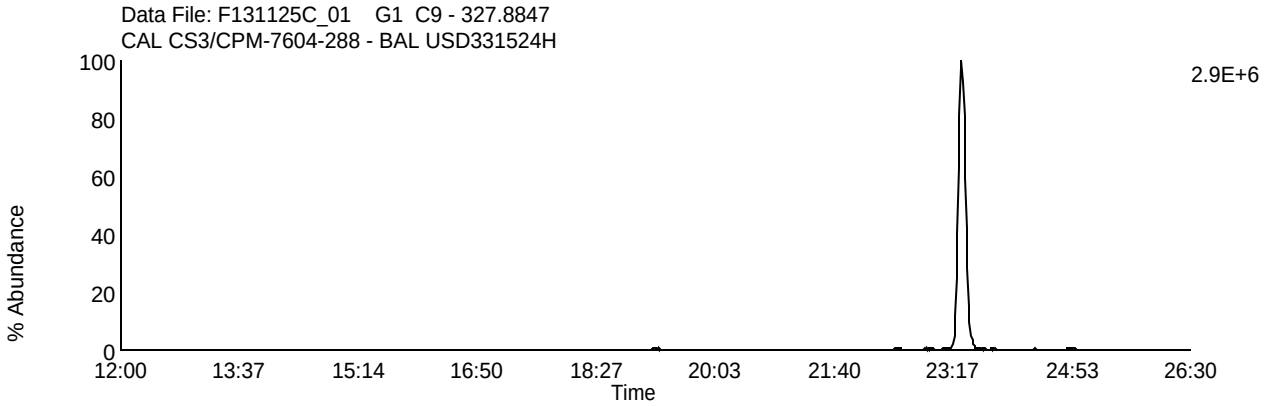
Homologue Group: Penta & Cleanup

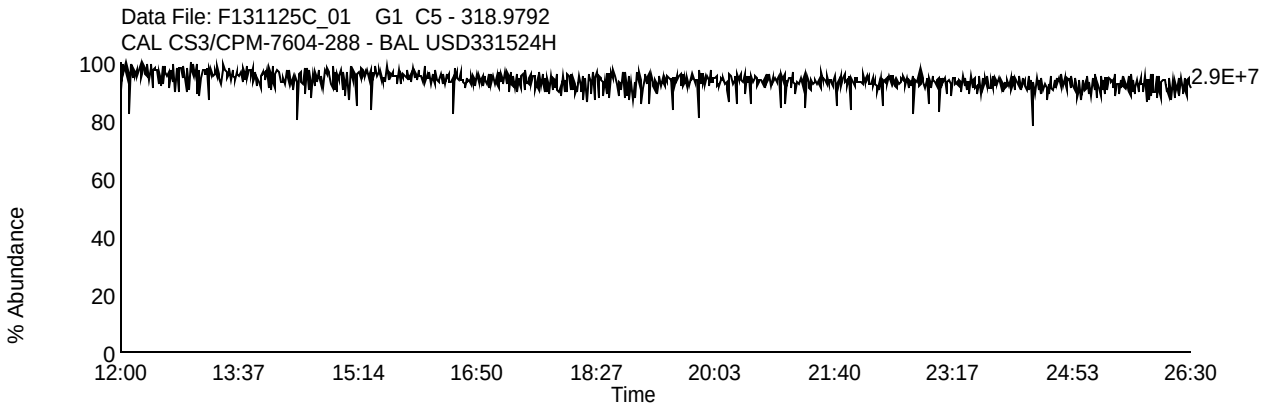
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)







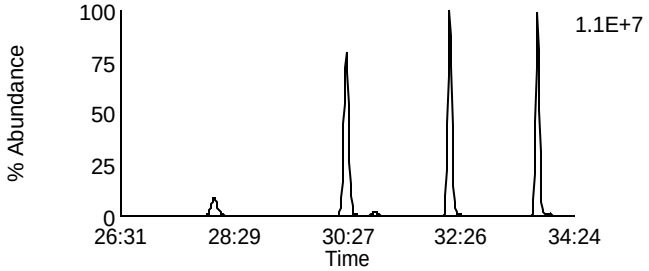


Homologue Group: Pentas

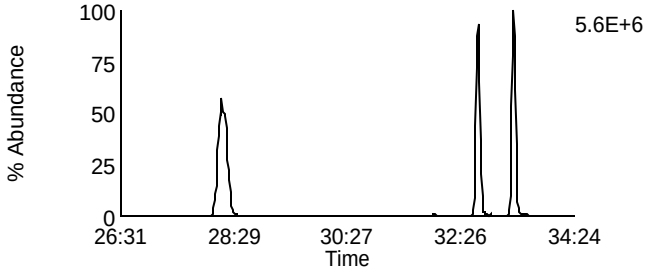
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

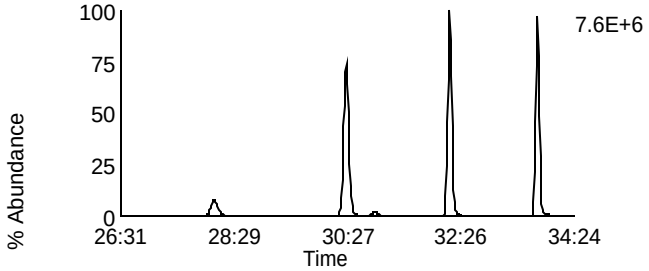
Data File: F131125C_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-288 - BAL USD331524H



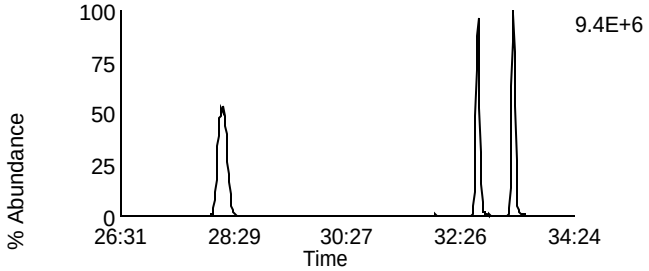
Data File: F131125C_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-288 - BAL USD331524H



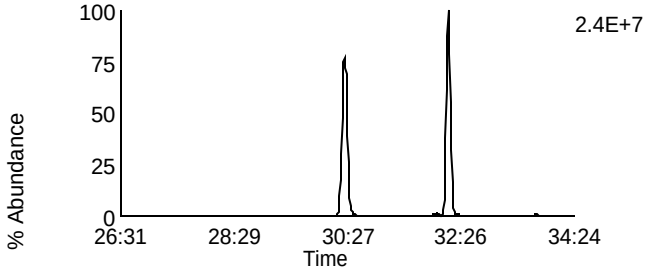
Data File: F131125C_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-288 - BAL USD331524H



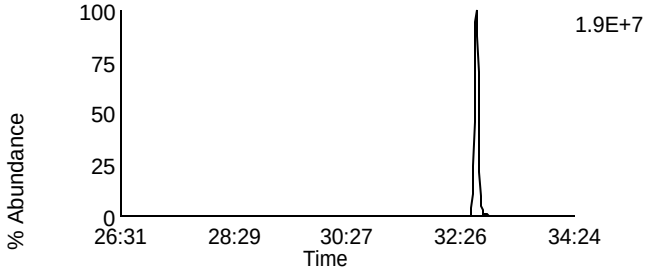
Data File: F131125C_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-288 - BAL USD331524H



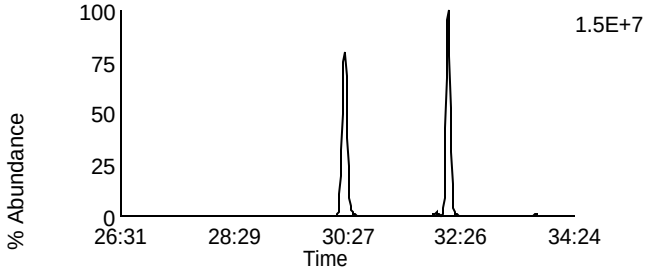
Data File: F131125C_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-288 - BAL USD331524H



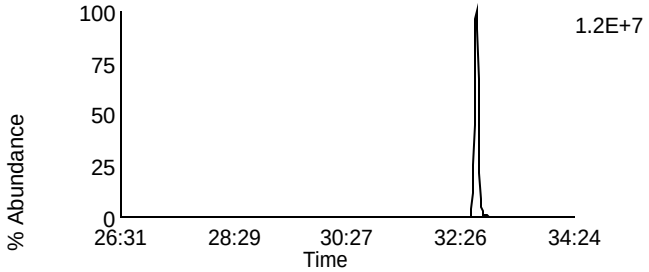
Data File: F131125C_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-288 - BAL USD331524H



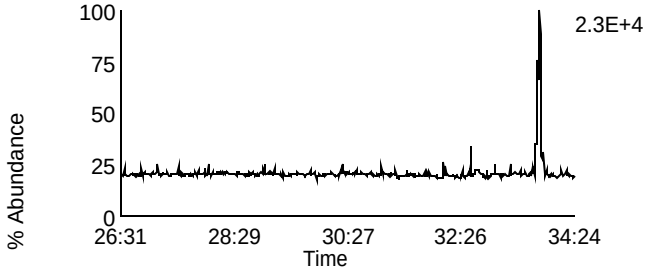
Data File: F131125C_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-288 - BAL USD331524H



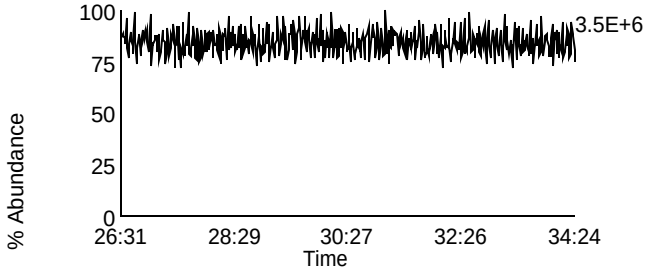
Data File: F131125C_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-288 - BAL USD331524H



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

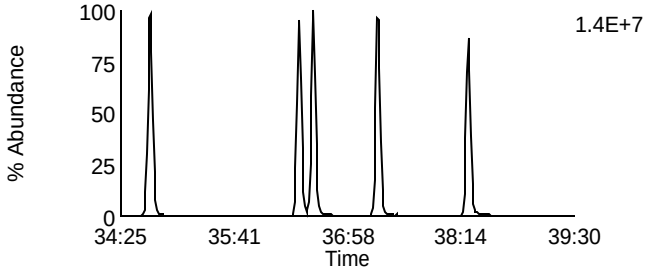


Homologue Group: Hexas

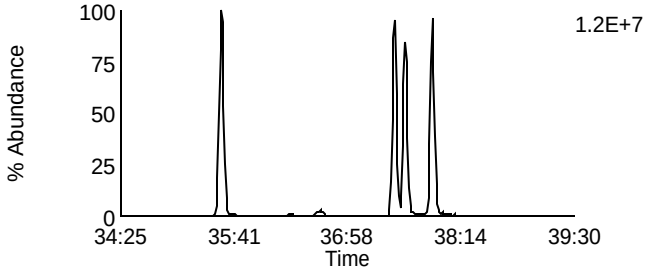
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

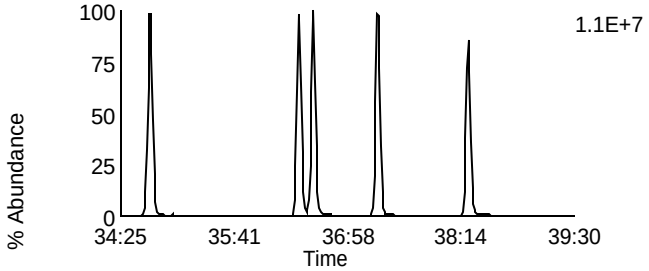
Data File: F131125C_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-288 - BAL USD331524H



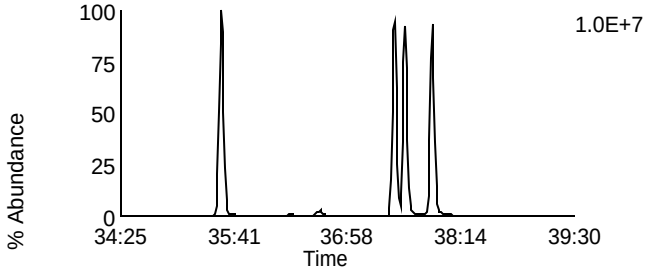
Data File: F131125C_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-288 - BAL USD331524H



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



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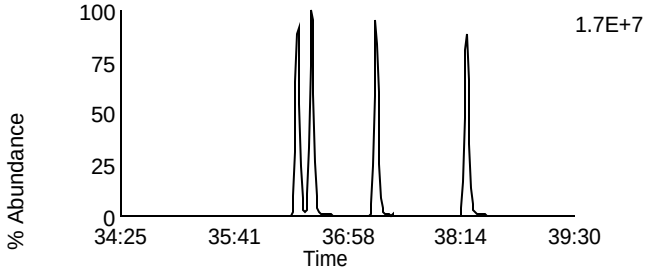
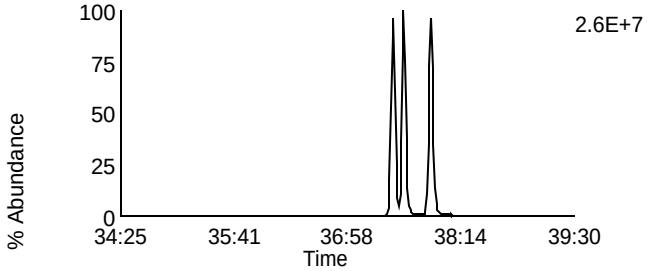
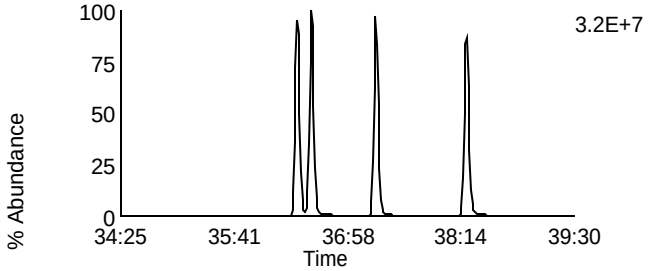
CAL CS3/CPM-7604-288 - BAL USD331524H



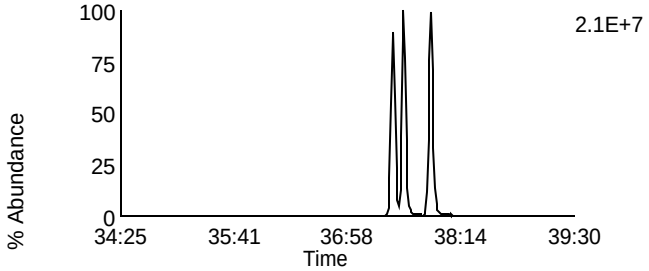
Data File: F131125C_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-288 - BAL USD331524H



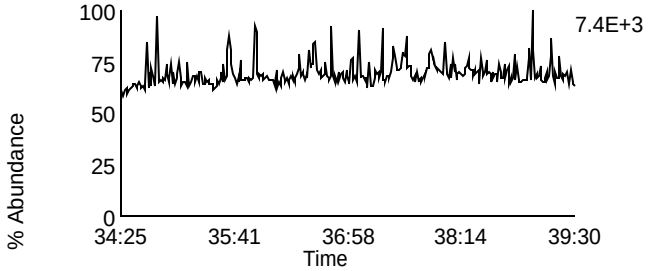
Data File: F131125C_01 G3 C6 - 385.861
CAL CS3/CPM-7604-288 - BAL USD331524H



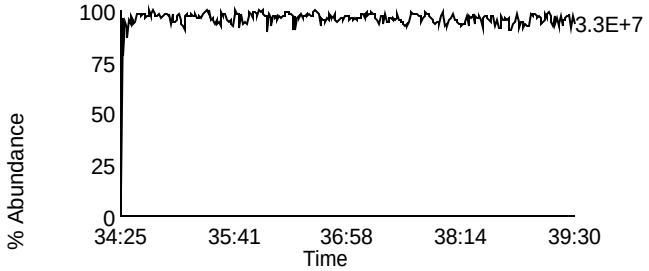
Data File: F131125C_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-288 - BAL USD331524H



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

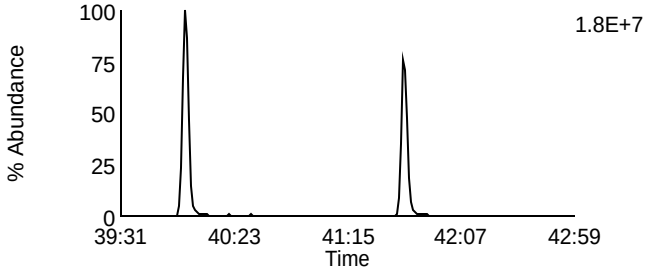


Homologue Group: Heptas

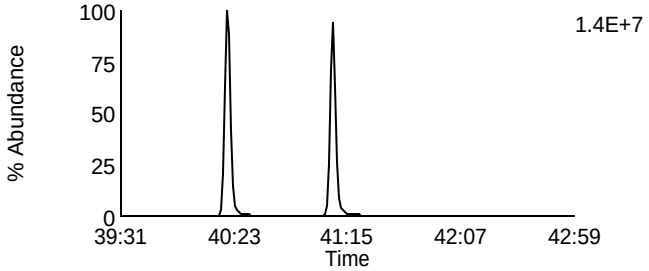
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

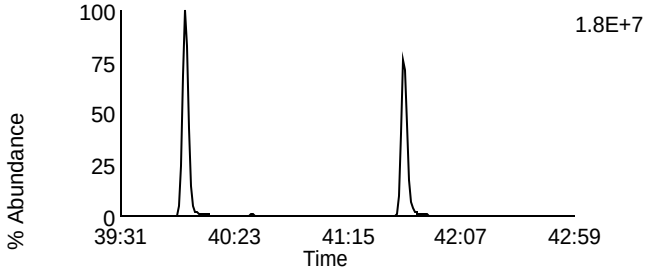
Data File: F131125C_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-288 - BAL USD331524H



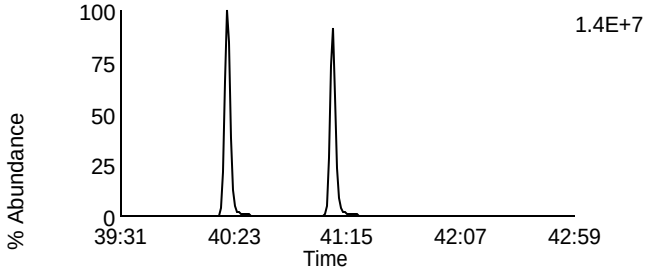
Data File: F131125C_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-288 - BAL USD331524H



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



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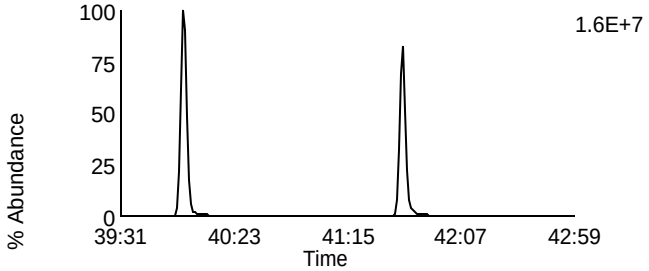
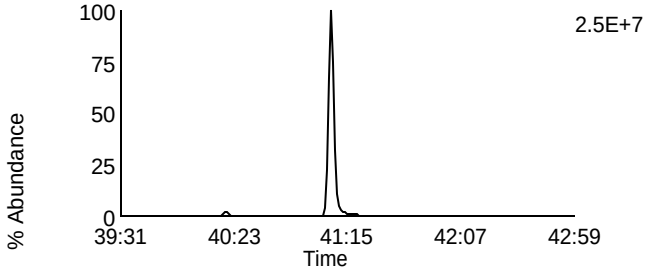
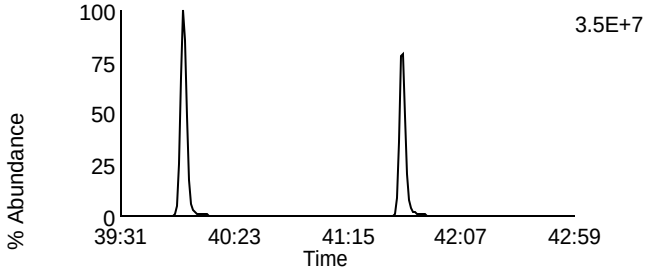
CAL CS3/CPM-7604-288 - BAL USD331524H



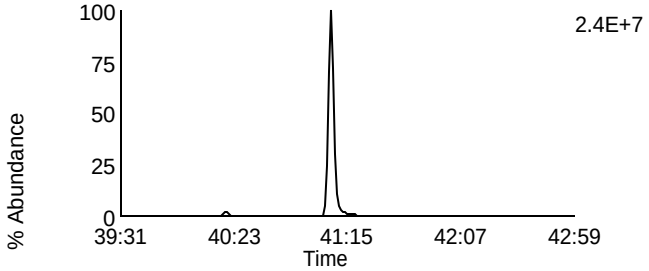
Data File: F131125C_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-288 - BAL USD331524H



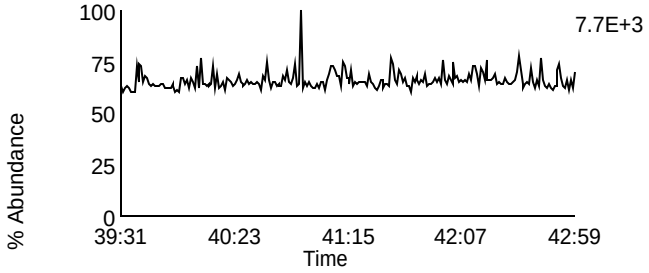
Data File: F131125C_01 G4 C7 - 419.822
CAL CS3/CPM-7604-288 - BAL USD331524H



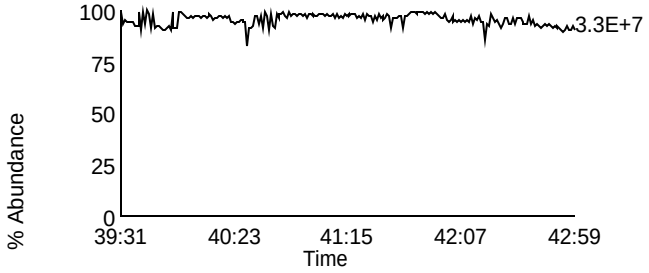
Data File: F131125C_01 G4 C12 - 437.814
CAL CS3/CPM-7604-288 - BAL USD331524H



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

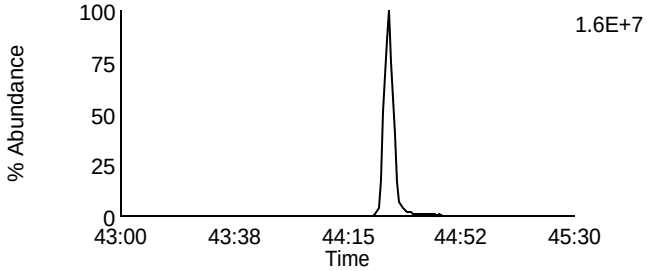


Homologue Group: Octas

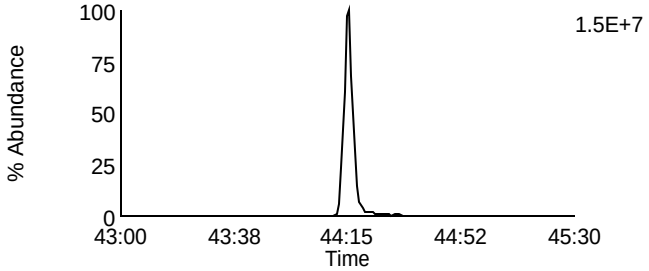
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID:
Instrument: 10MSHR05 (F)

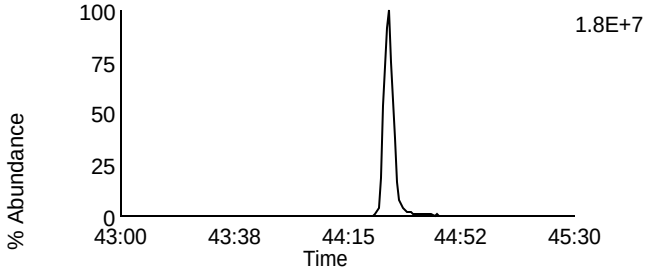
Data File: F131125C_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-288 - BAL USD331524H



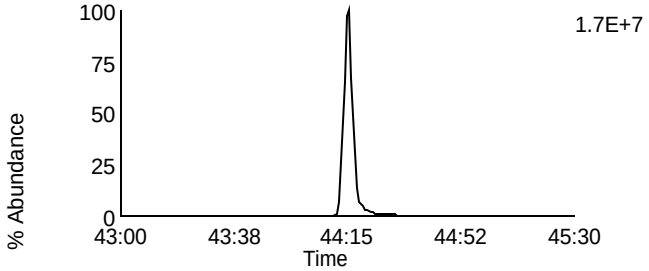
Data File: F131125C_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-288 - BAL USD331524H



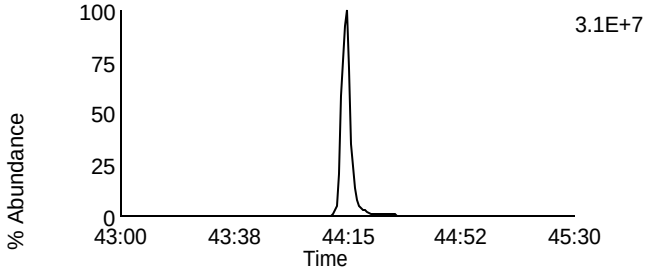
Data File: F131125C_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-288 - BAL USD331524H



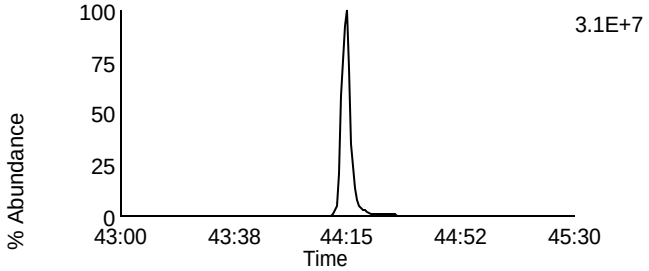
Data File: F131125C_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-288 - BAL USD331524H



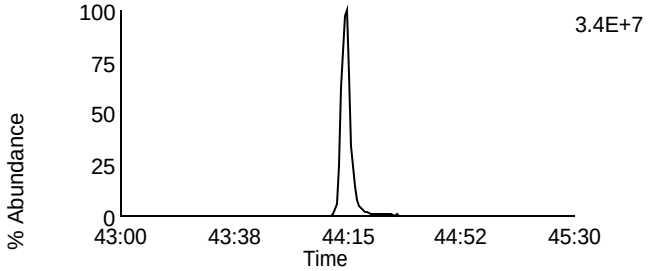
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



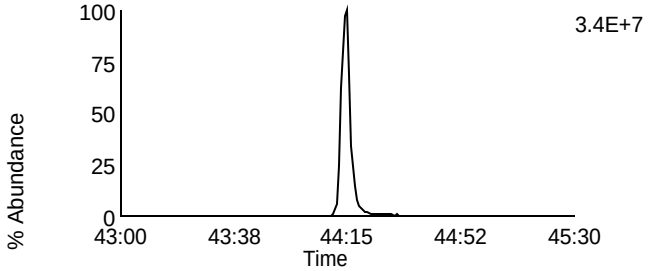
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



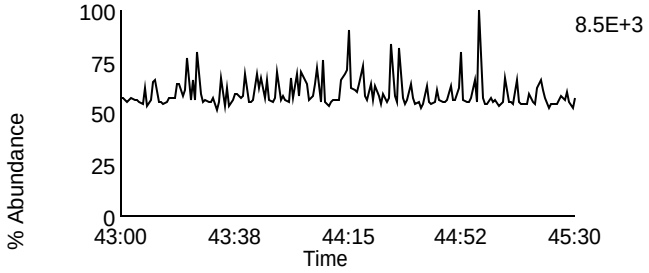
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



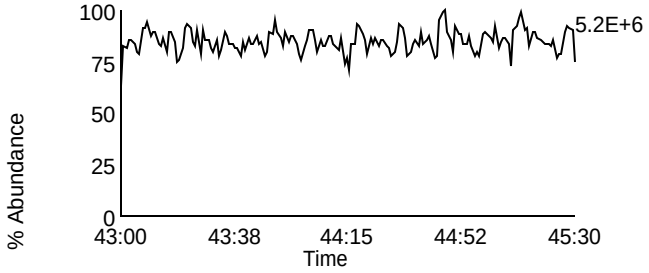
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



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

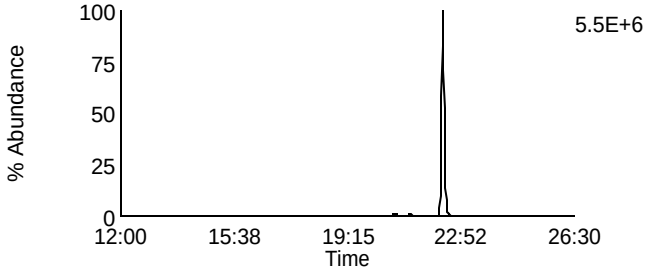


Homologue Group: Tetras

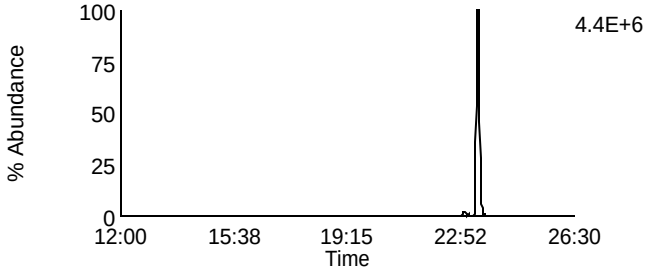
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

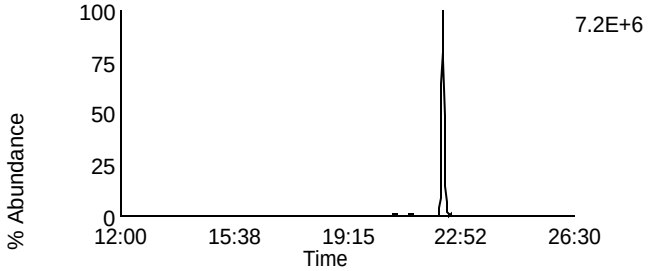
Data File: F131125C_06 G1 C1 - 303.9016
CAL CS4-7604-277 - BAL



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



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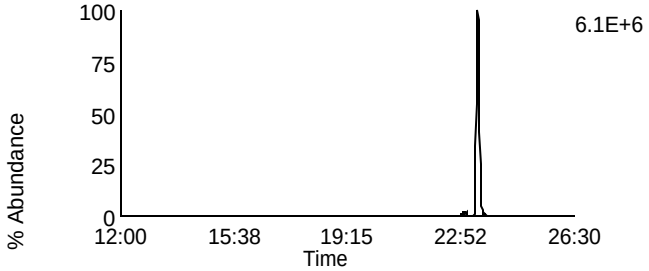
CAL CS4-7604-277 - BAL



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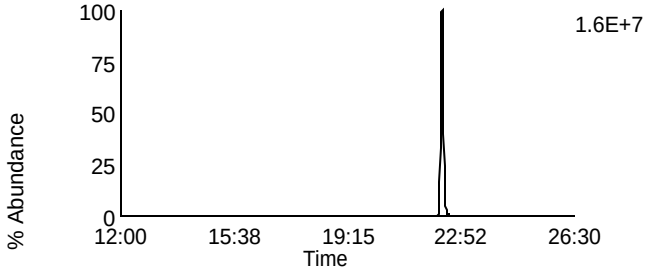
CAL CS4-7604-277 - BAL



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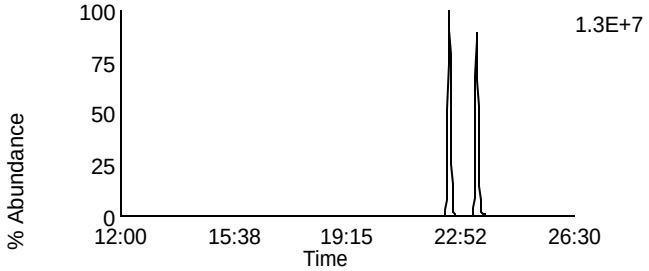
CAL CS4-7604-277 - BAL



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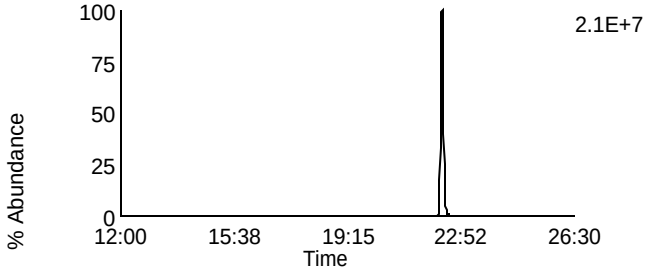
CAL CS4-7604-277 - BAL



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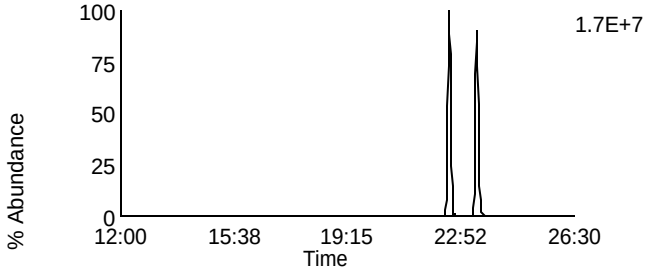
CAL CS4-7604-277 - BAL



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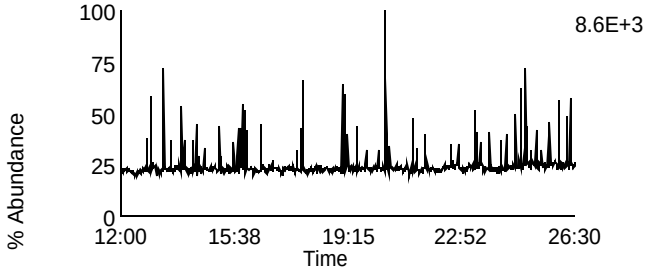
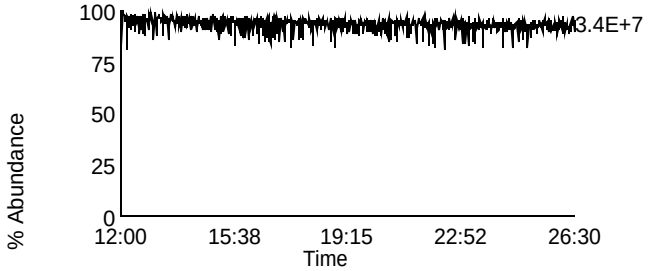
CAL CS4-7604-277 - BAL



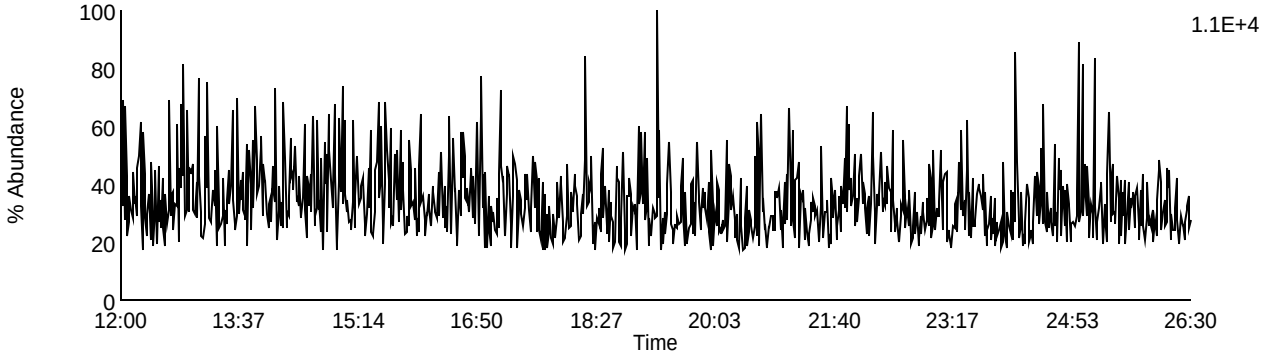
Data File: F131125C_06 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL



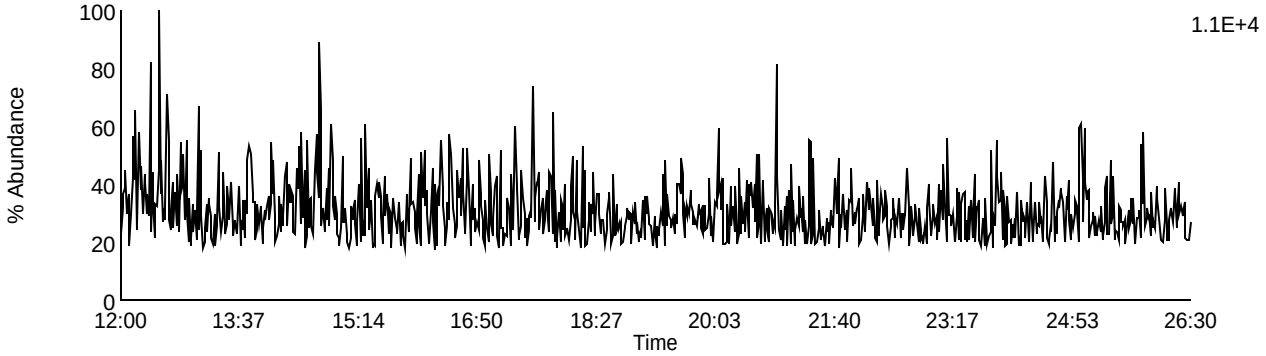
Homologue Group: Penta & Cleanup

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



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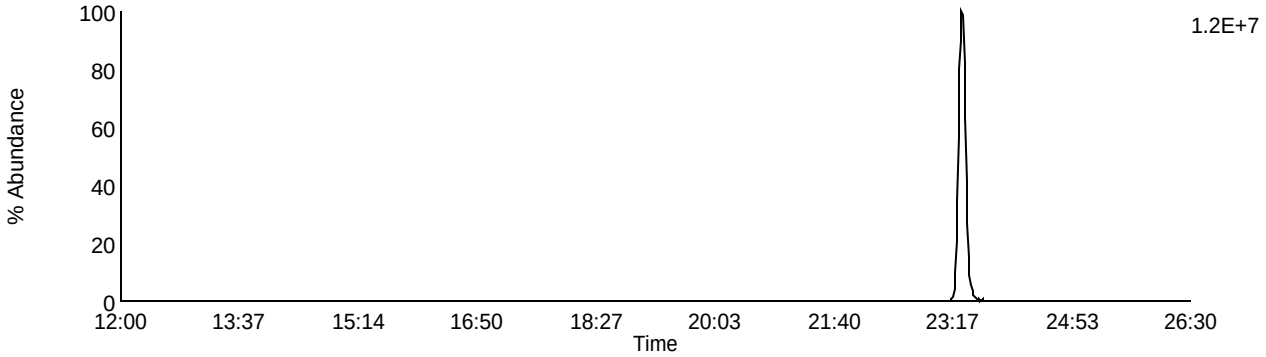
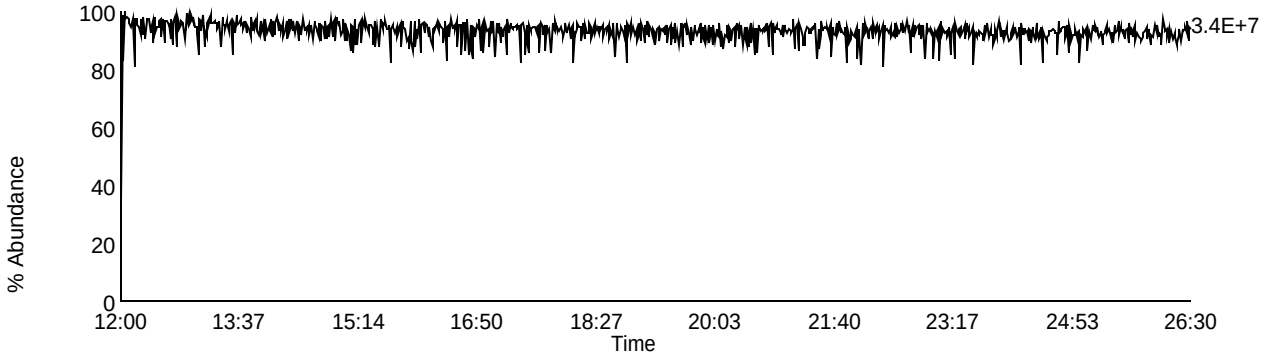
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL

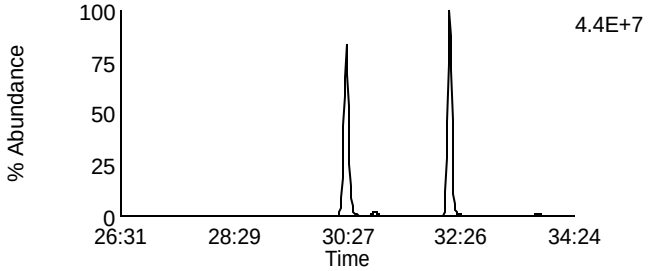


Homologue Group: Pentas

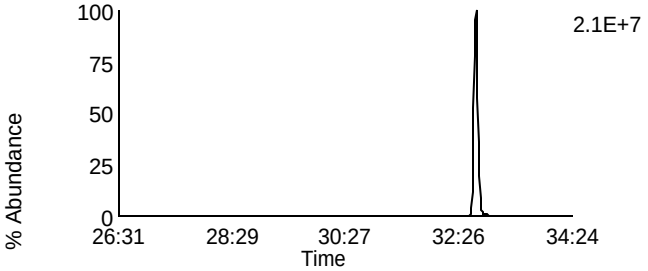
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

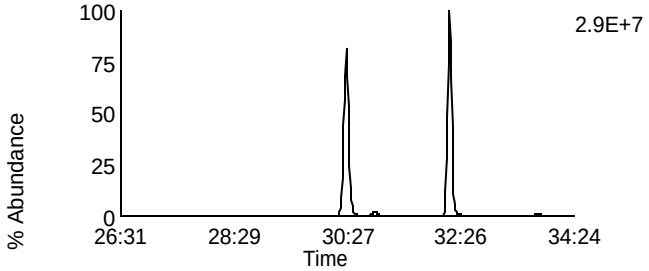
Data File: F131125C_06 G2 C1 - 339.8597
CAL CS4-7604-277 - BAL



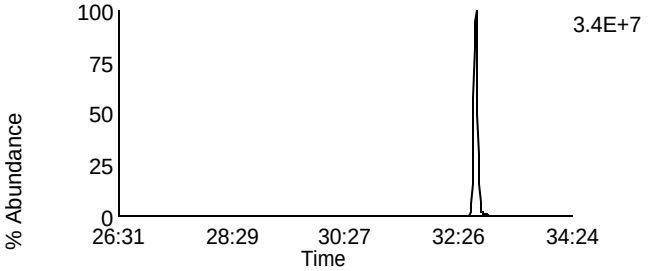
Data File: F131125C_06 G2 C4 - 353.8576
CAL CS4-7604-277 - BAL



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



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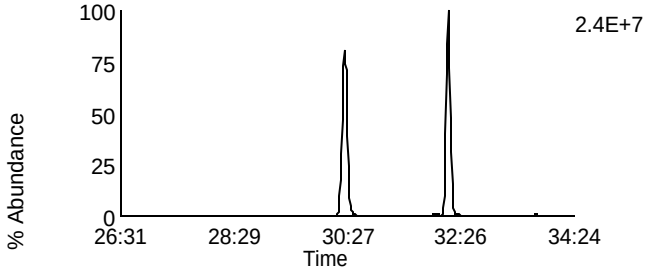
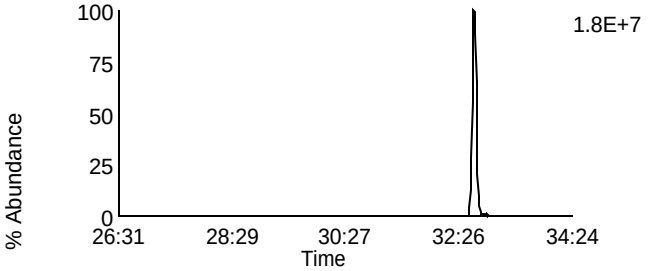
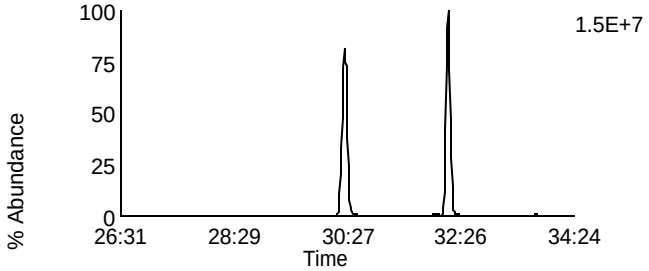
CAL CS4-7604-277 - BAL



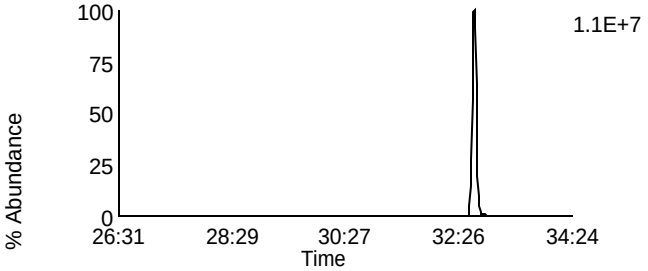
Data File: F131125C_06 G2 C10 - 367.8948
CAL CS4-7604-277 - BAL



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



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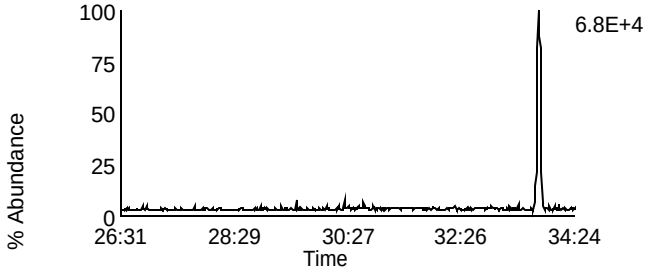
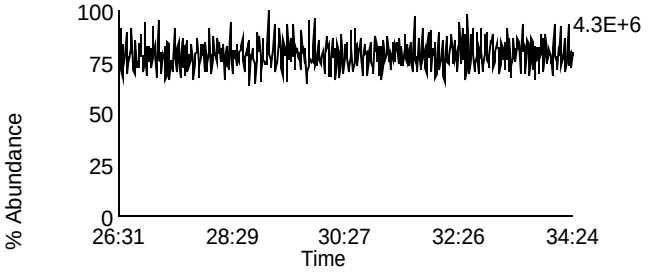
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G2 C6 - 354.9792
CAL CS4-7604-277 - BAL

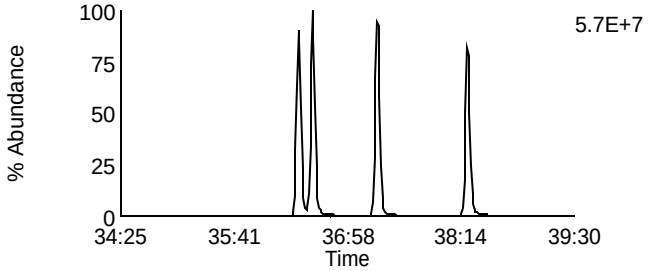


Homologue Group: Hexas

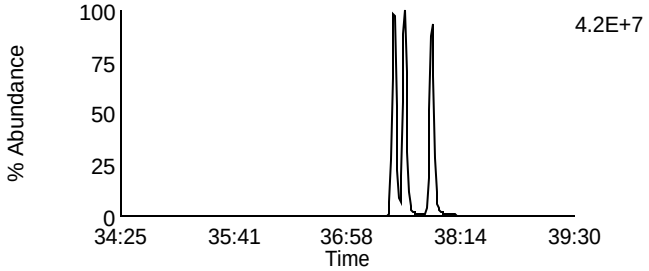
Data File Name: F131125C_06
Date Acquired: 11/26/2013
Sample Description: CAL CS4-7604-277 - BAL

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



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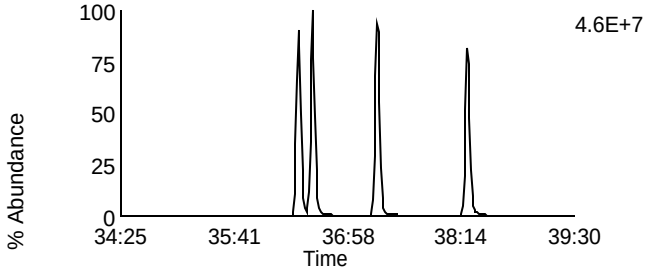
CAL CS4-7604-277 - BAL



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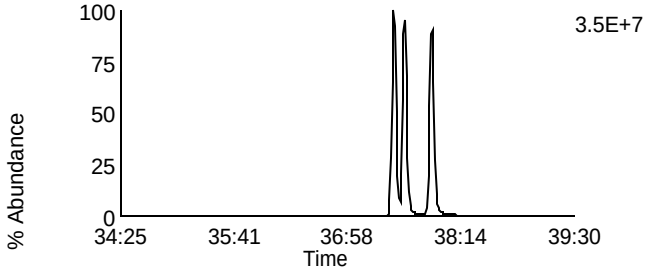
CAL CS4-7604-277 - BAL



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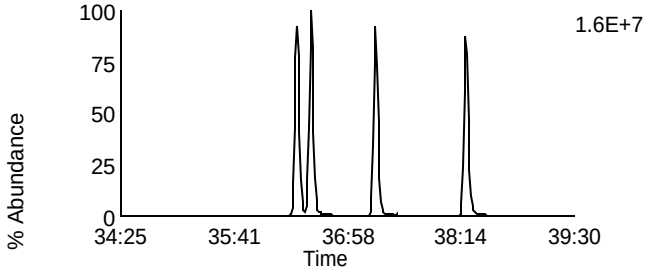
CAL CS4-7604-277 - BAL



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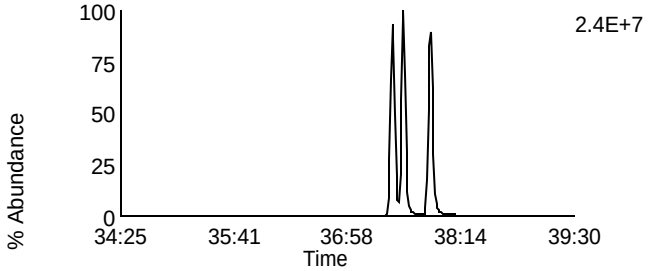
CAL CS4-7604-277 - BAL



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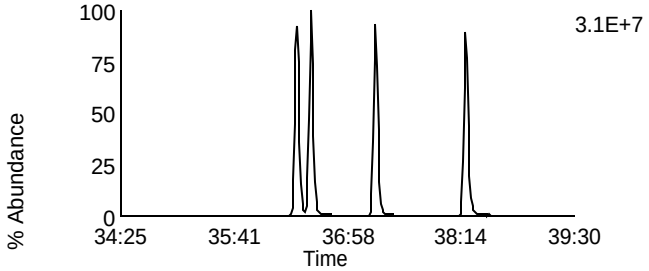
CAL CS4-7604-277 - BAL



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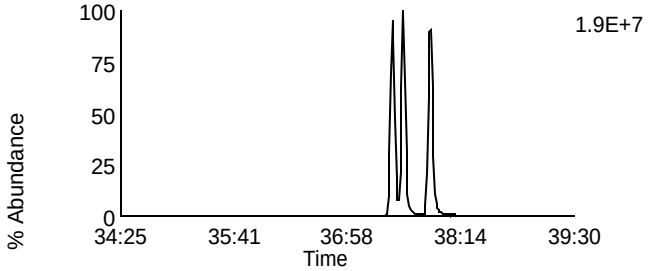
CAL CS4-7604-277 - BAL



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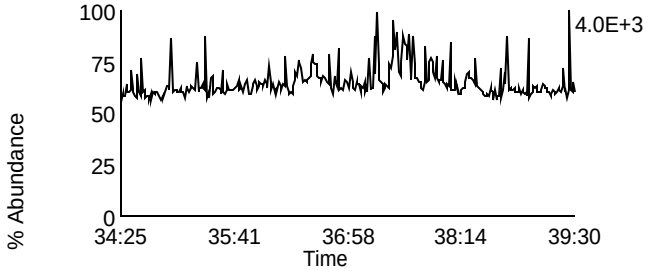
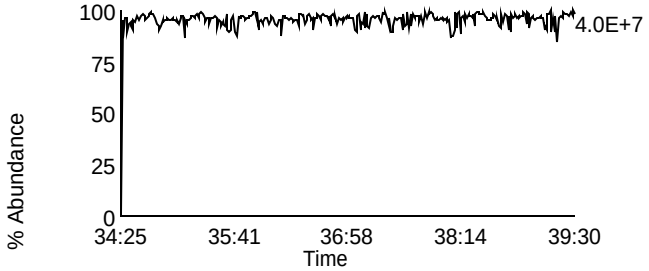
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G3 C3 - 380.976
CAL CS4-7604-277 - BAL

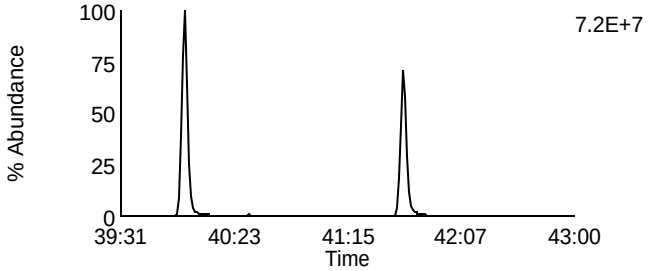


Homologue Group: Heptas

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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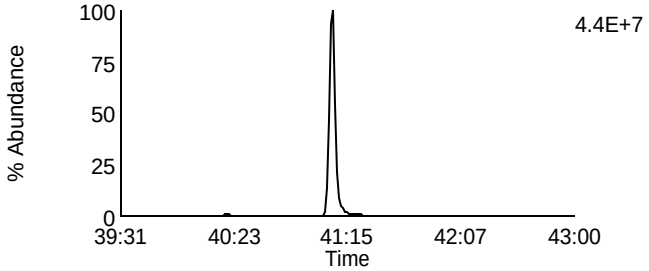
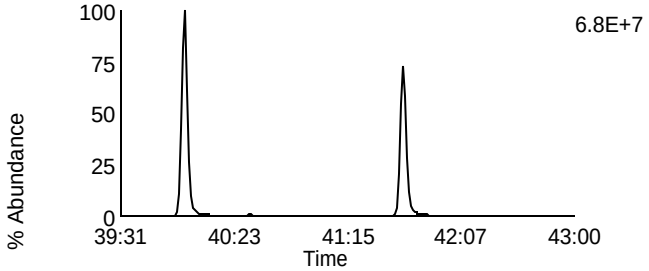
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C4 - 409.7788
CAL CS4-7604-277 - BAL



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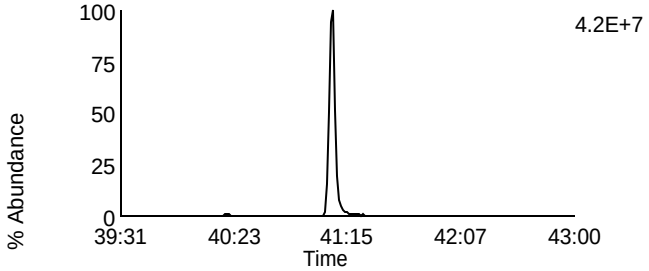
CAL CS4-7604-277 - BAL



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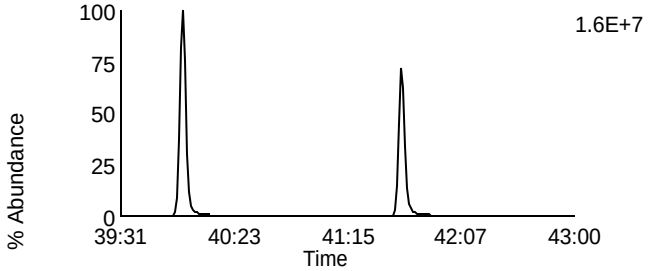
CAL CS4-7604-277 - BAL



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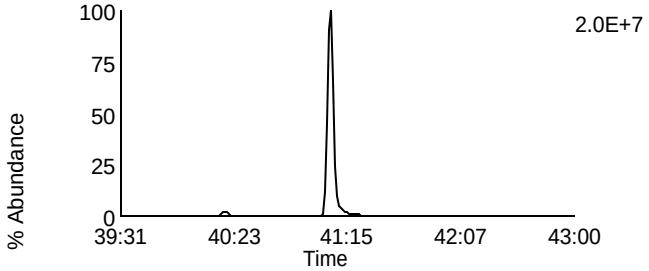
CAL CS4-7604-277 - BAL



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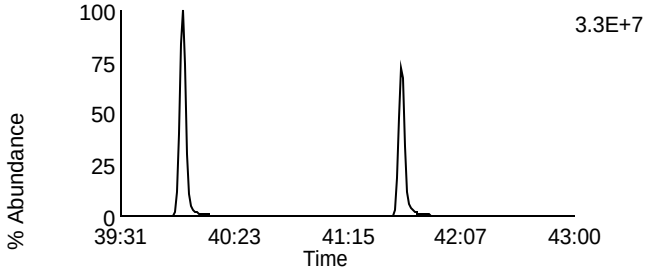
CAL CS4-7604-277 - BAL



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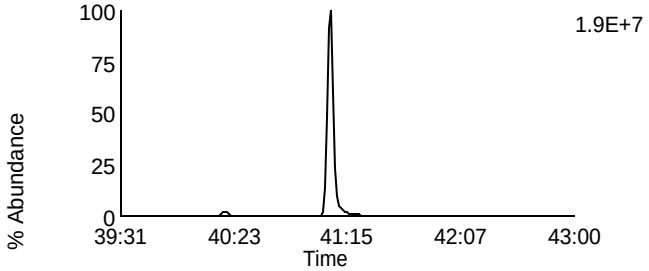
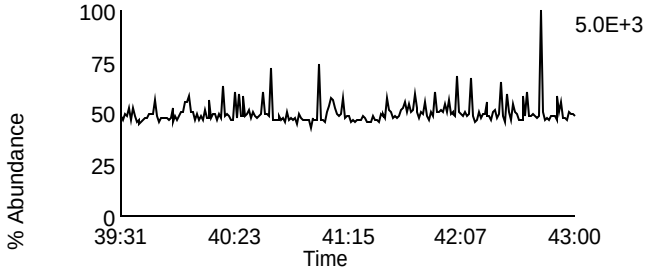
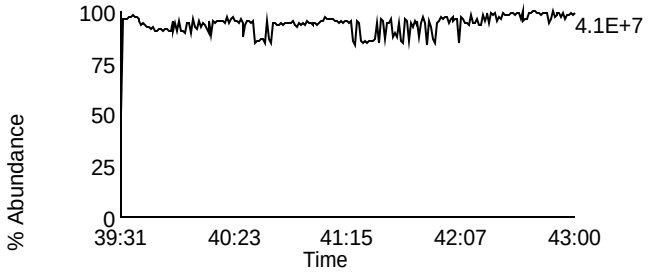
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C13 - 479.7165
CAL CS4-7604-277 - BAL



Data File: F131125C_06 G4 C1 - 380.976
CAL CS4-7604-277 - BAL

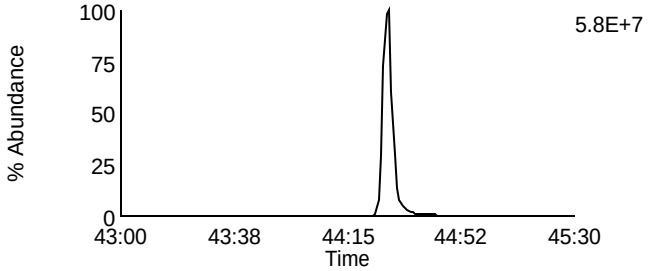


Homologue Group: Octas

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



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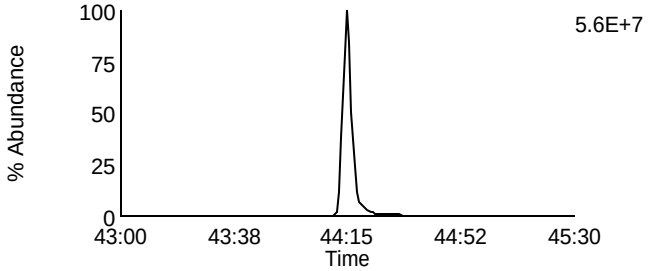
CAL CS4-7604-277 - BAL



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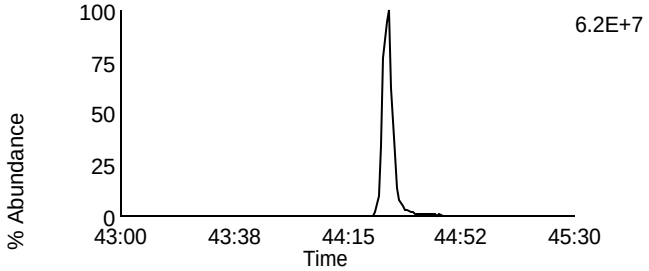
CAL CS4-7604-277 - BAL



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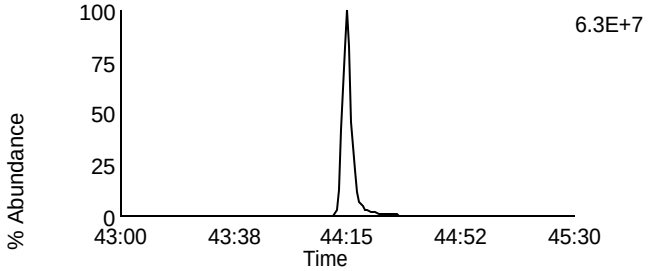
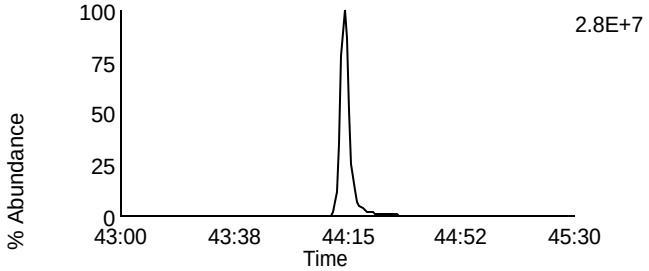
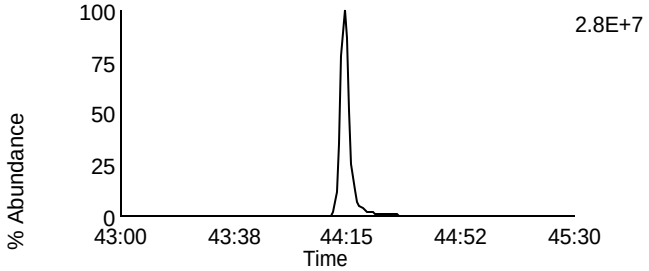
CAL CS4-7604-277 - BAL



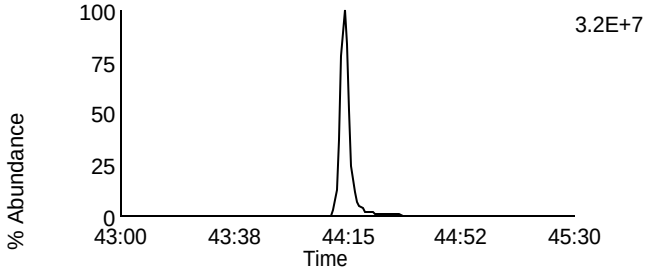
Data File: F131125C_06 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



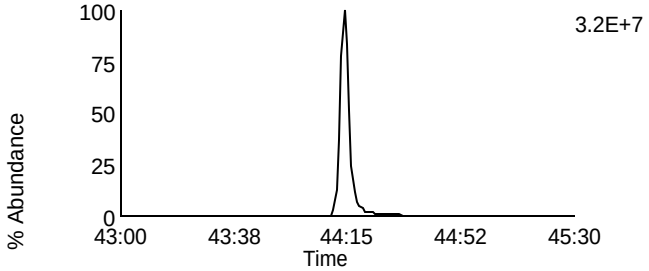
Data File: F131125C_06 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



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



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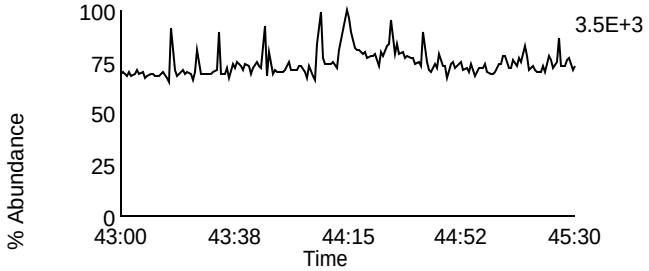
CAL CS4-7604-277 - BAL



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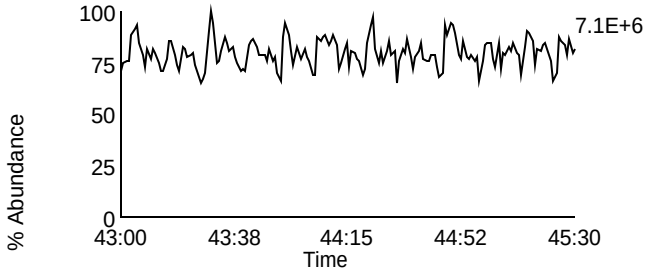
CAL CS4-7604-277 - BAL

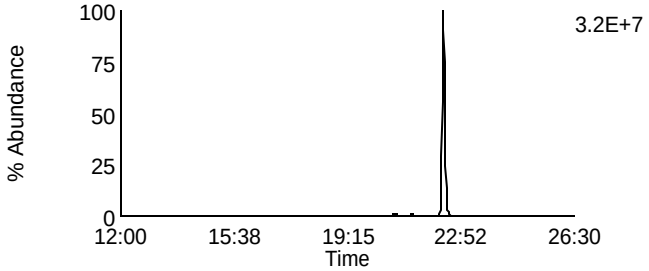


Homologue Group: Tetras

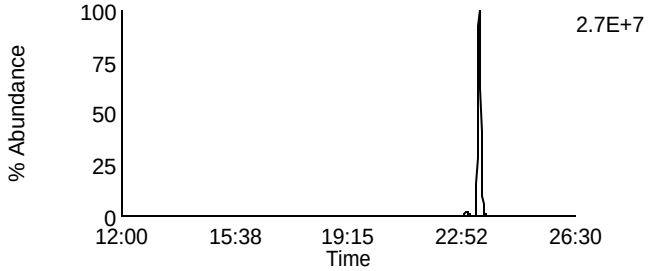
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

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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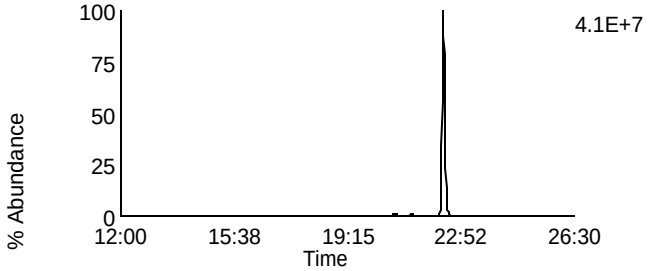
CAL CS5-7604-278 - BAL



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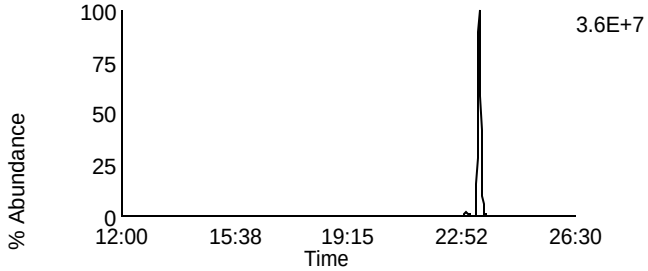
CAL CS5-7604-278 - BAL



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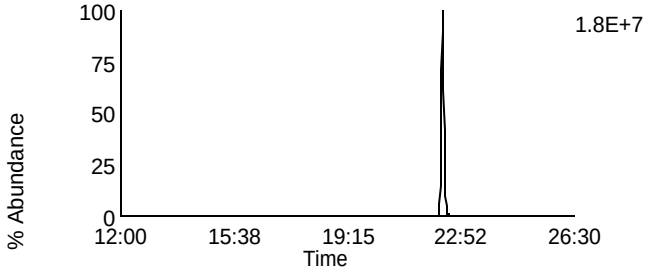
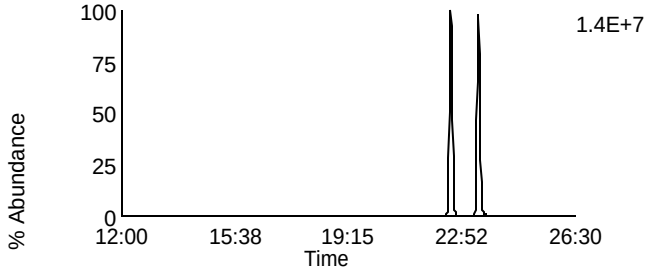
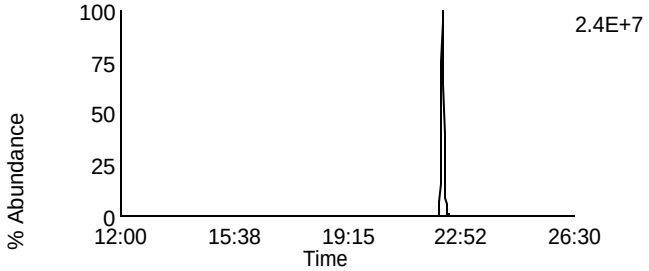
CAL CS5-7604-278 - BAL



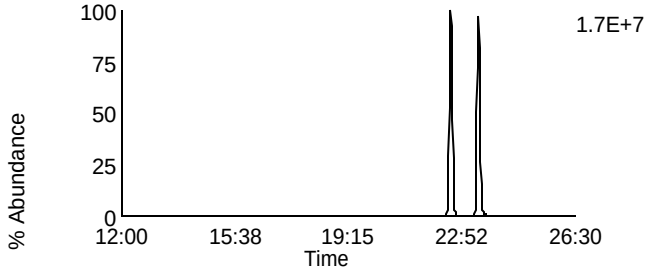
Data File: F131125C_05 G1 C10 - 331.9367
CAL CS5-7604-278 - BAL



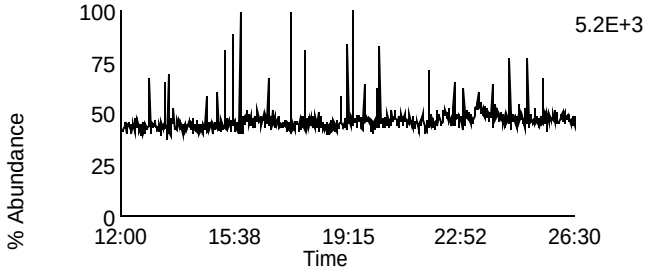
Data File: F131125C_05 G1 C4 - 317.9389
CAL CS5-7604-278 - BAL



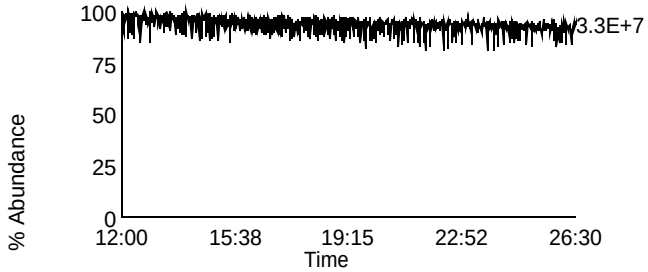
Data File: F131125C_05 G1 C11 - 333.9338
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G1 C14 - 375.8364
CAL CS5-7604-278 - BAL



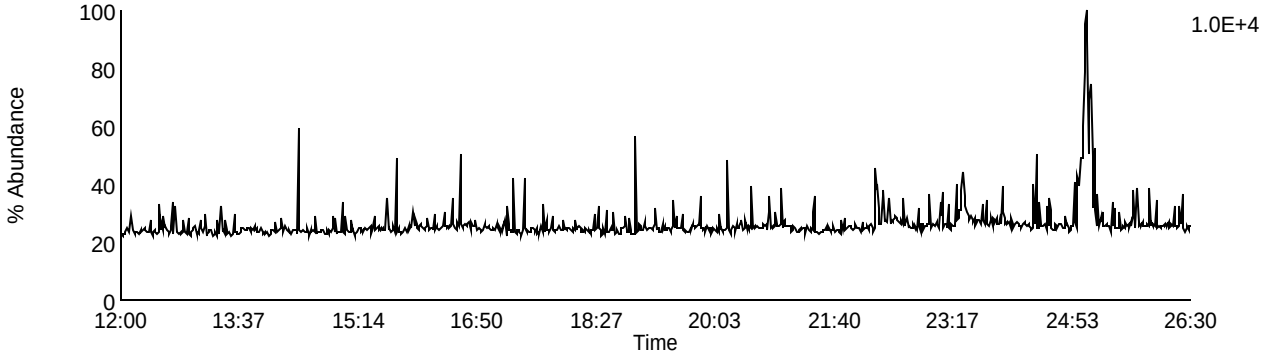
Data File: F131125C_05 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL



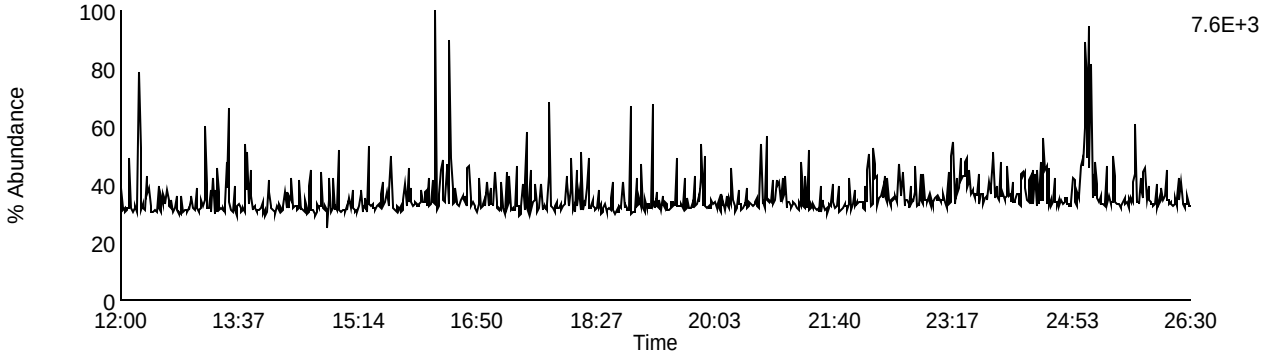
Homologue Group: Penta & Cleanup

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)

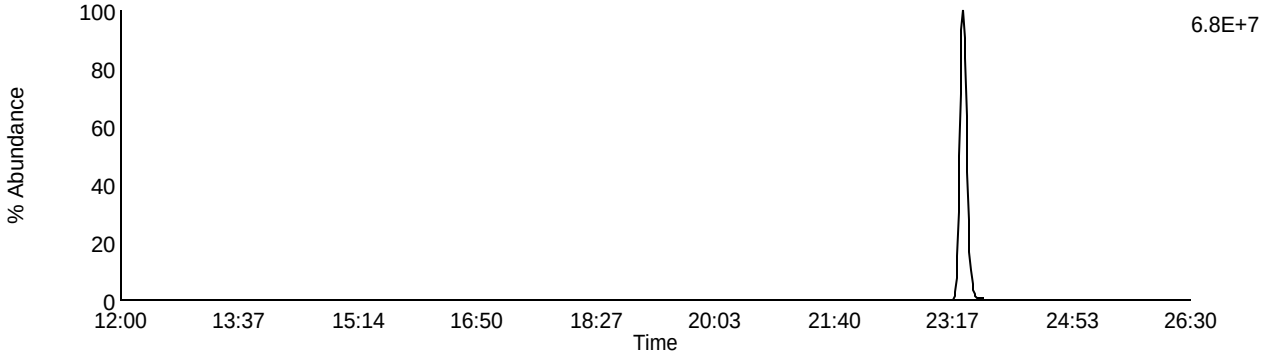
Data File: F131125C_05 G1 C12 - 339.8597
CAL CS5-7604-278 - BAL



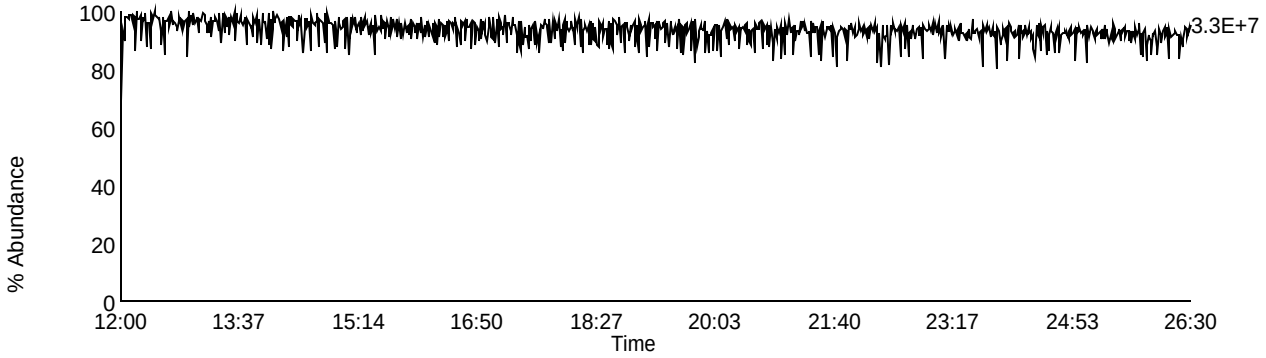
Data File: F131125C_05 G1 C13 - 341.8567
CAL CS5-7604-278 - BAL



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

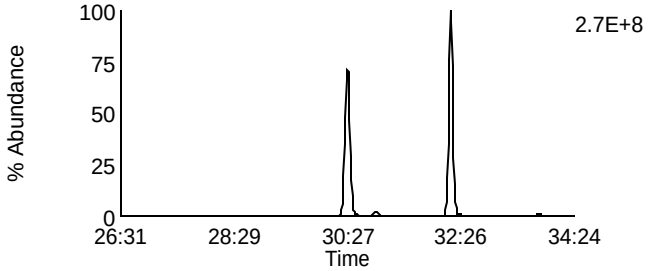


Homologue Group: Pentas

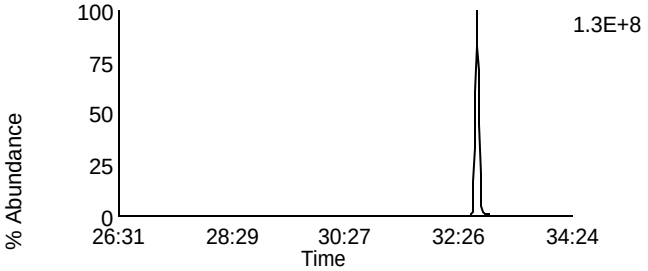
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

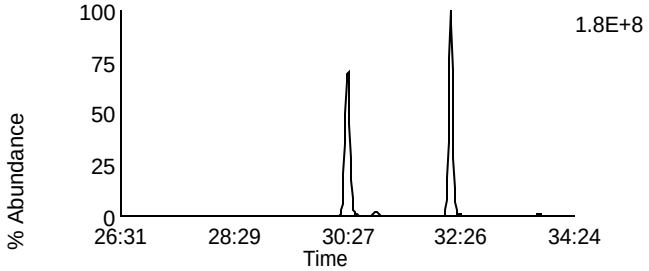
Data File: F131125C_05 G2 C1 - 339.8597
CAL CS5-7604-278 - BAL



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



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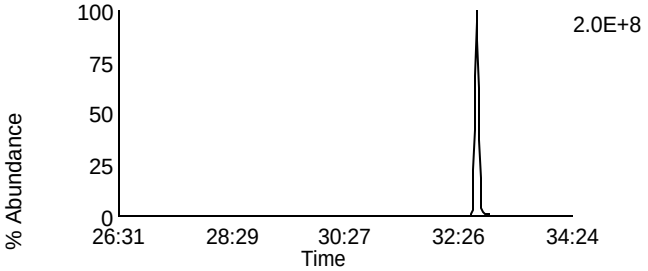
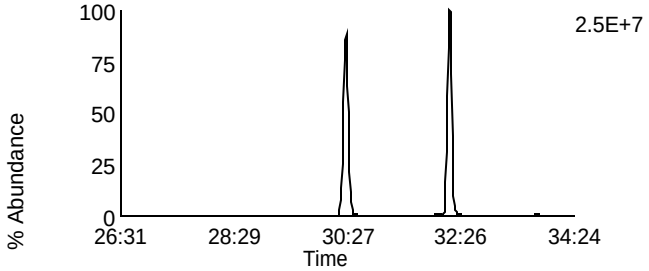
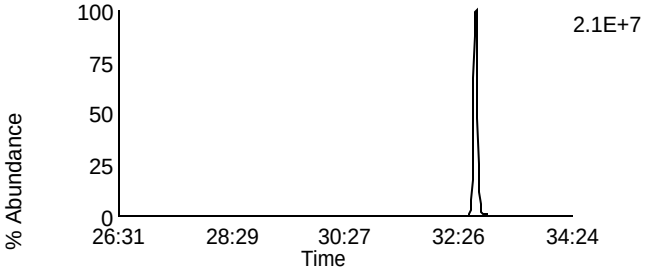
CAL CS5-7604-278 - BAL



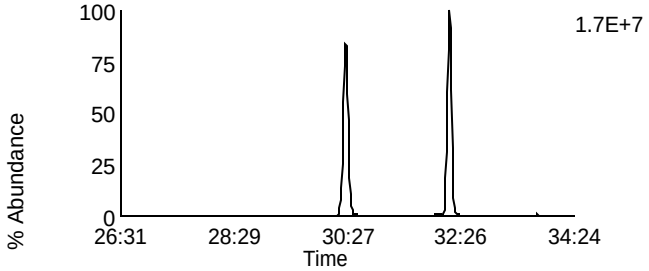
Data File: F131125C_05 G2 C3 - 351.8999
CAL CS5-7604-278 - BAL



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



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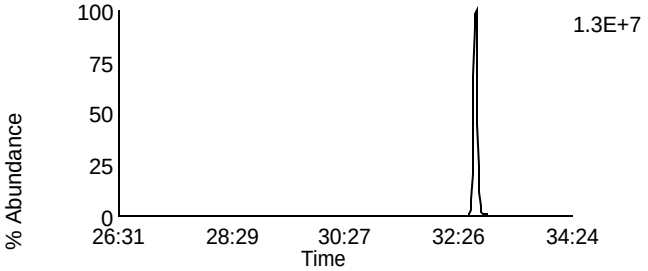
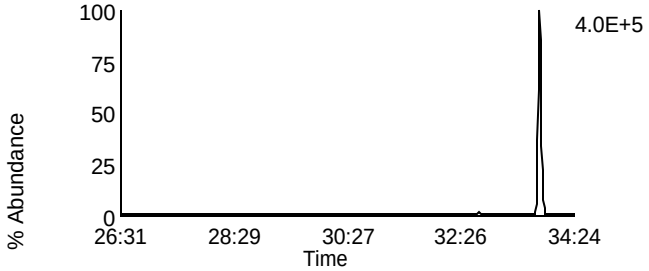
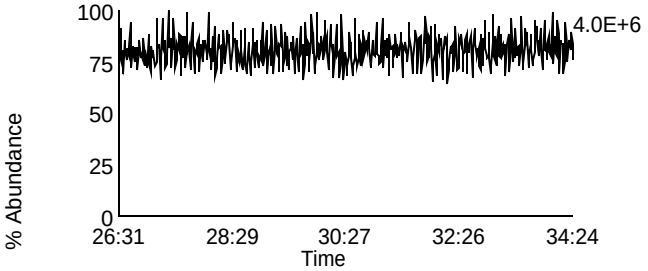
CAL CS5-7604-278 - BAL



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

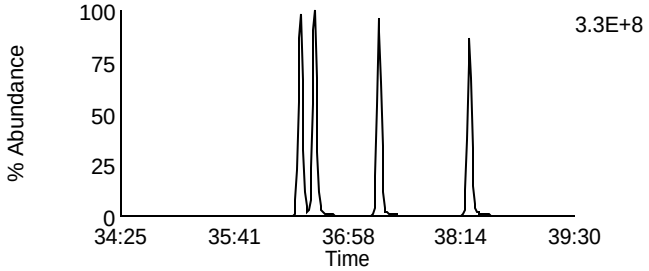


Homologue Group: Hexas

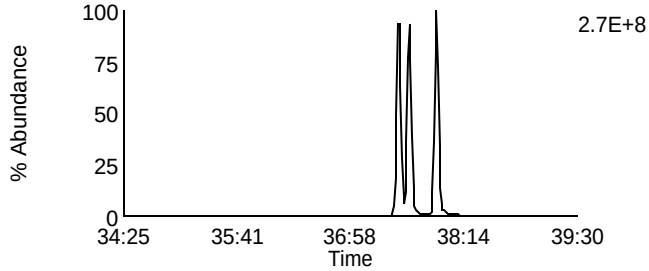
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

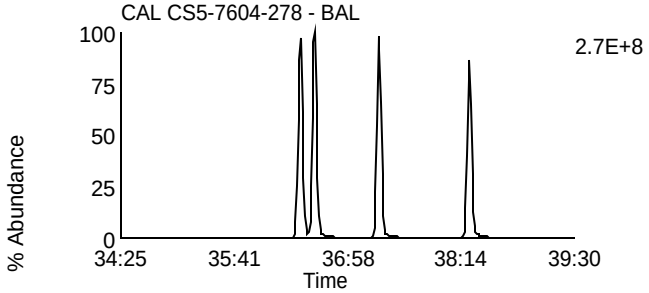
Data File: F131125C_05 G3 C1 - 373.8207
CAL CS5-7604-278 - BAL



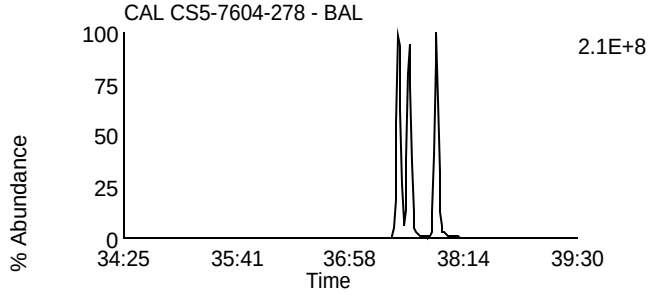
Data File: F131125C_05 G3 C7 - 389.8156
CAL CS5-7604-278 - BAL



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



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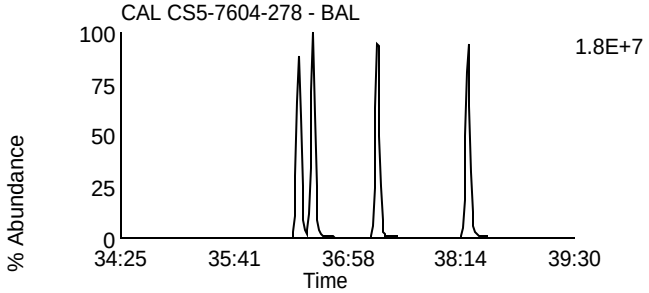
CAL CS5-7604-278 - BAL



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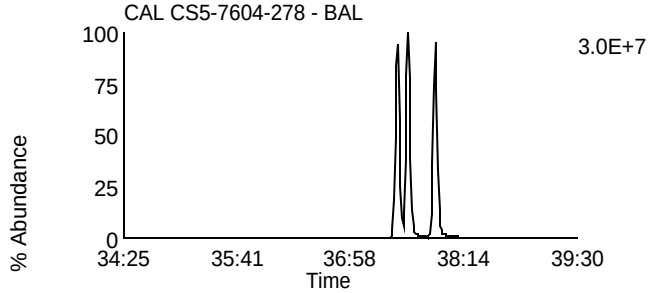
CAL CS5-7604-278 - BAL



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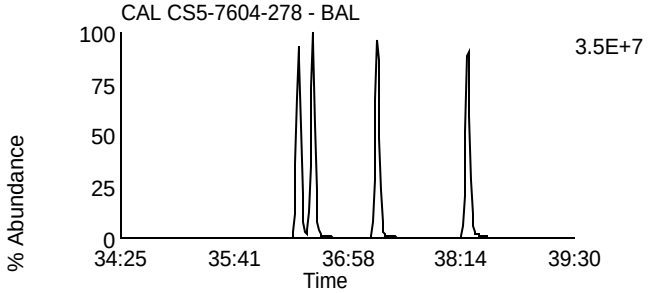
CAL CS5-7604-278 - BAL



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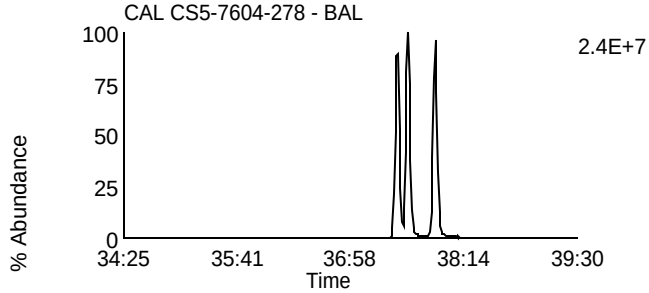
CAL CS5-7604-278 - BAL



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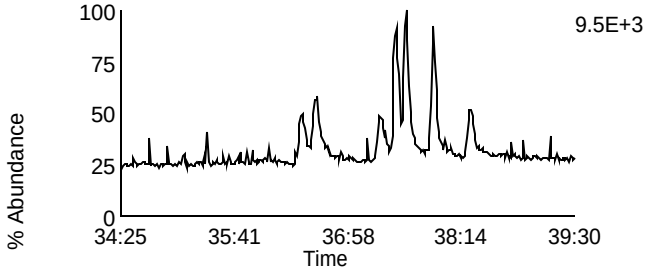
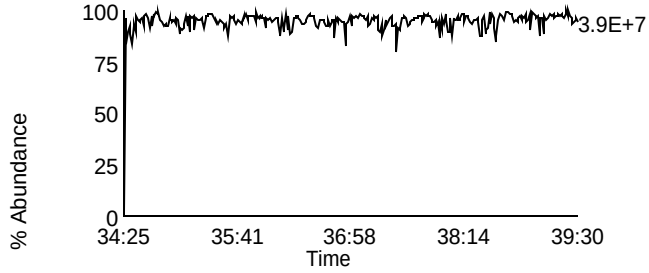
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G3 C3 - 380.976
CAL CS5-7604-278 - BAL

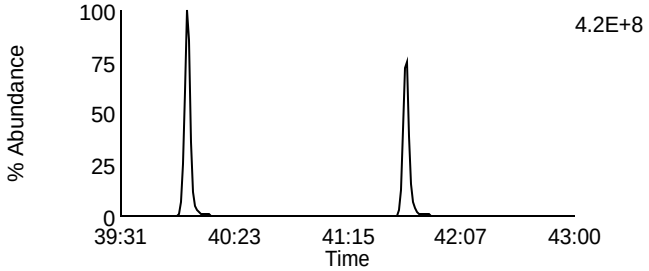


Homologue Group: Heptas

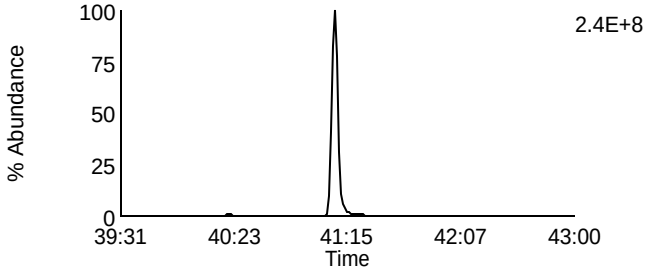
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

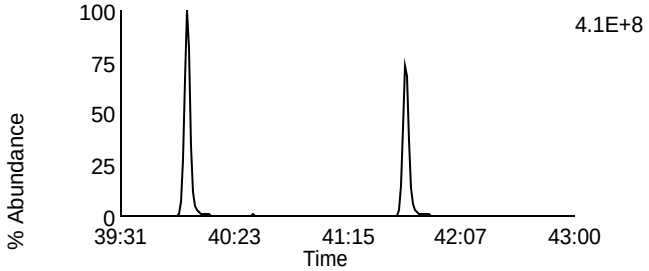
Data File: F131125C_05 G4 C3 - 407.7818
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C8 - 423.7767
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C4 - 409.7788
CAL CS5-7604-278 - BAL



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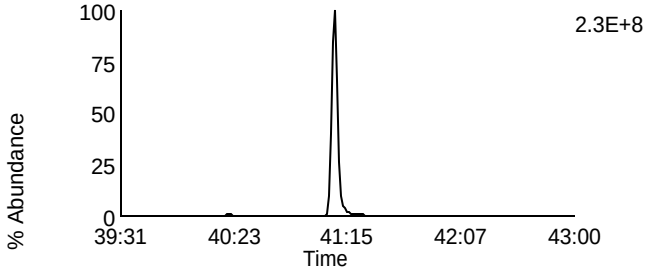
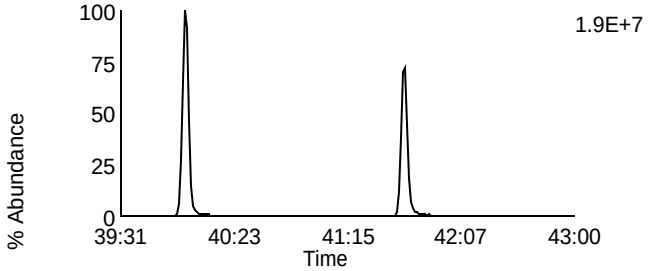
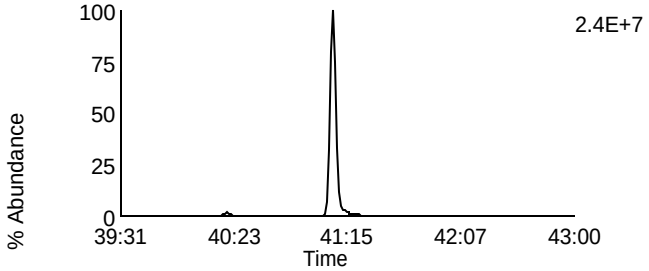
CAL CS5-7604-278 - BAL



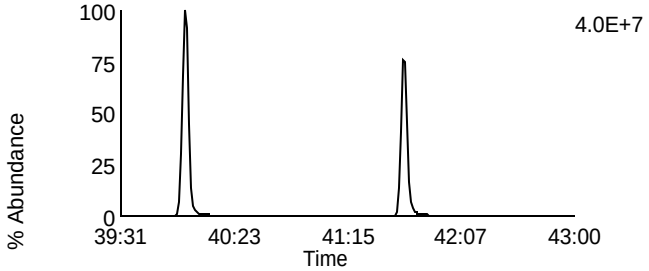
Data File: F131125C_05 G4 C6 - 417.825
CAL CS5-7604-278 - BAL



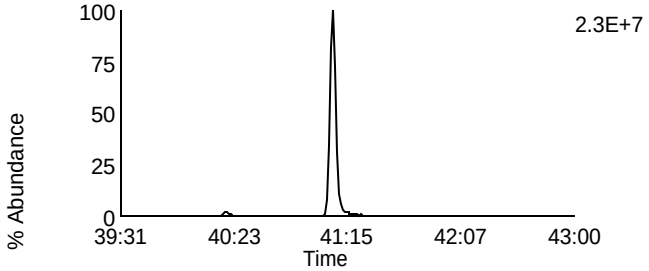
Data File: F131125C_05 G4 C11 - 435.8169
CAL CS5-7604-278 - BAL



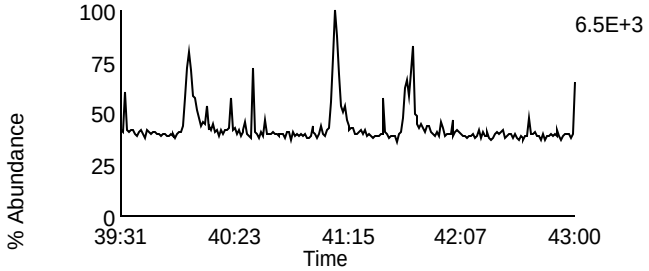
Data File: F131125C_05 G4 C7 - 419.822
CAL CS5-7604-278 - BAL



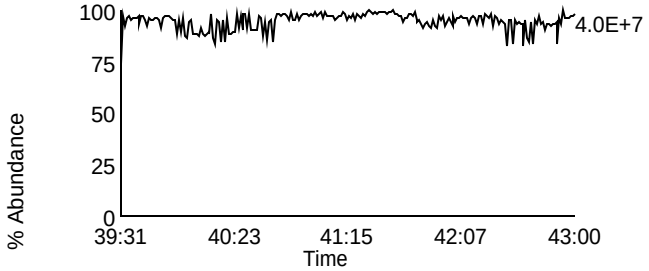
Data File: F131125C_05 G4 C12 - 437.814
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C13 - 479.7165
CAL CS5-7604-278 - BAL



Data File: F131125C_05 G4 C1 - 380.976
CAL CS5-7604-278 - BAL

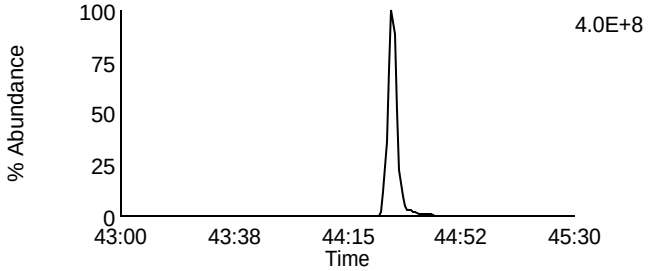


Homologue Group: Octas

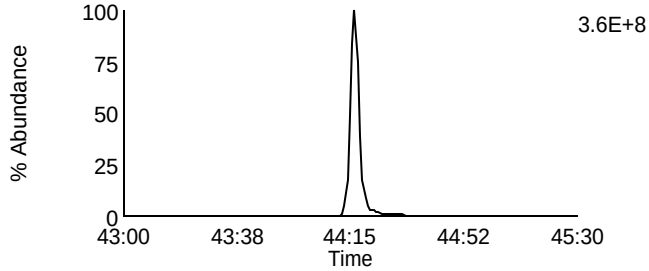
Data File Name: F131125C_05
Date Acquired: 11/25/2013
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

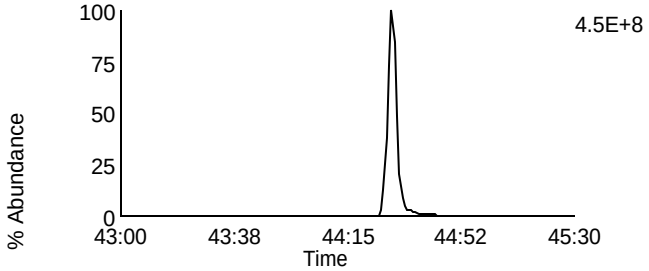
Data File: F131125C_05 G5 C4 - 441.7428
CAL CS5-7604-278 - BAL



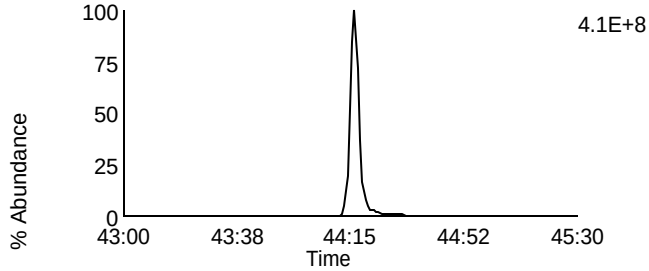
Data File: F131125C_05 G5 C8 - 457.7377
CAL CS5-7604-278 - BAL



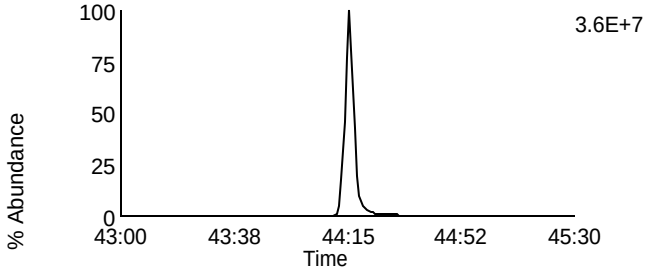
Data File: F131125C_05 G5 C5 - 443.7398
CAL CS5-7604-278 - BAL



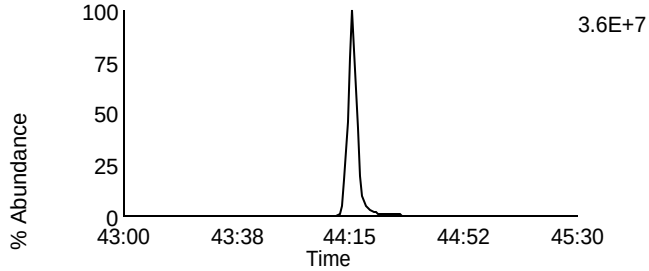
Data File: F131125C_05 G5 C9 - 459.7347
CAL CS5-7604-278 - BAL



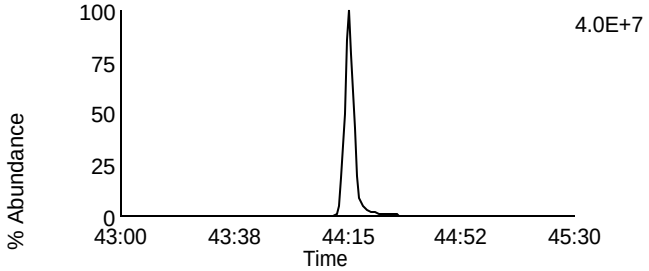
Data File: F131125C_05 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



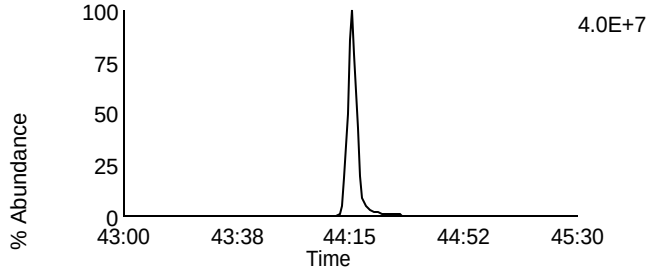
Data File: F131125C_05 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



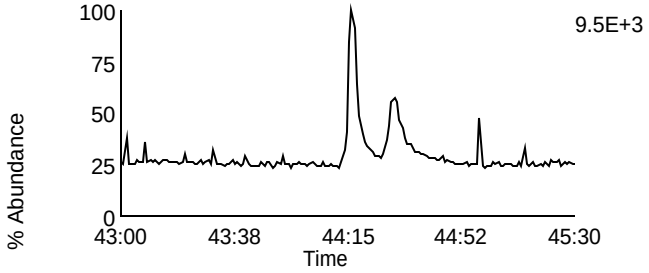
Data File: F131125C_05 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



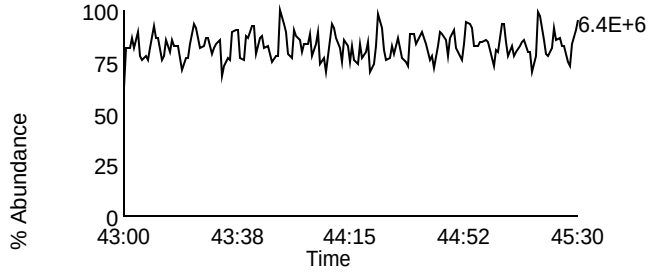
Data File: F131125C_05 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



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

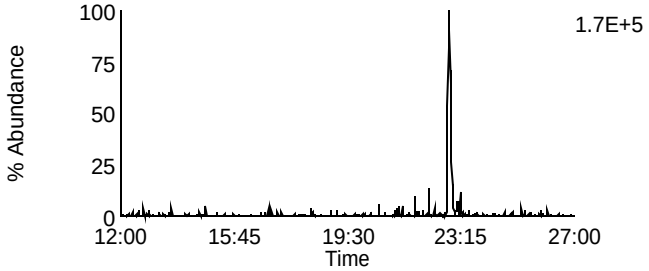


Homologue Group: Tetras

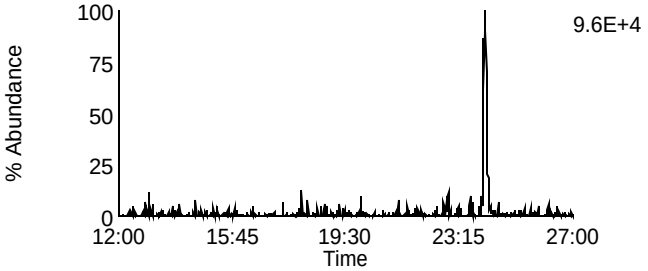
Data File Name: U140306A_05
Date Acquired: 3/6/2014
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

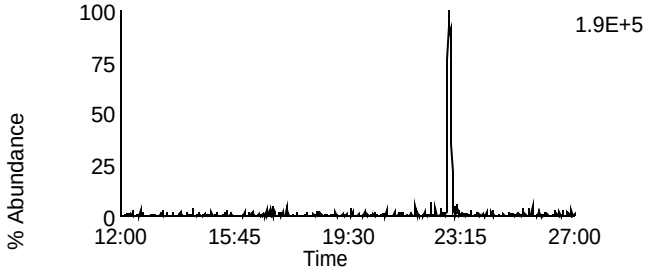
Data File: U140306A_05 G1 C1 - 303.9016
CAL CS1-7604-273 - SMT



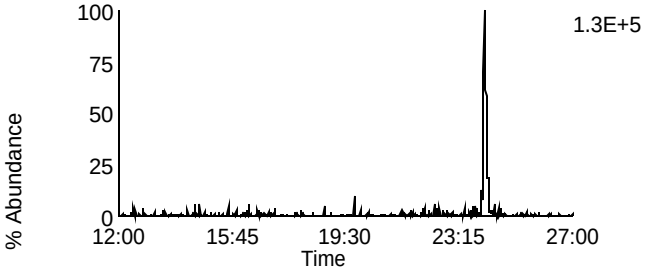
Data File: U140306A_05 G1 C7 - 319.8965
CAL CS1-7604-273 - SMT



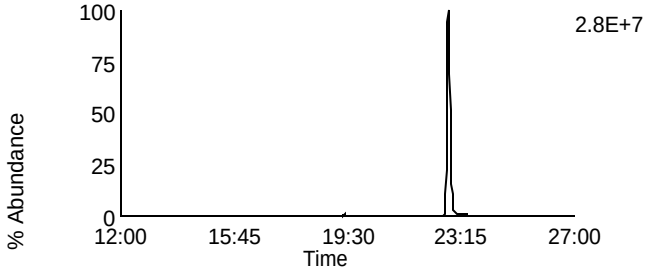
Data File: U140306A_05 G1 C2 - 305.8987
CAL CS1-7604-273 - SMT



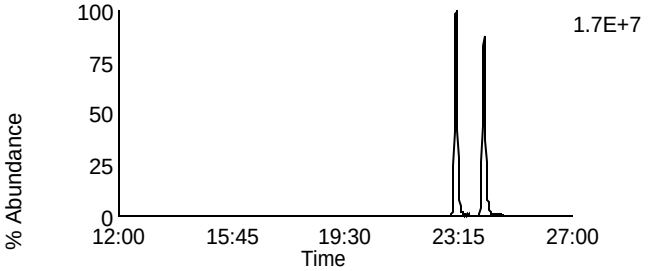
Data File: U140306A_05 G1 C8 - 321.8936
CAL CS1-7604-273 - SMT



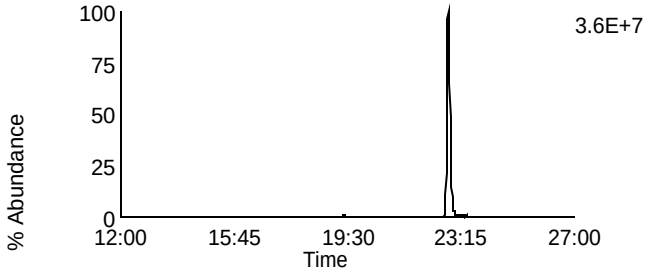
Data File: U140306A_05 G1 C3 - 315.9418
CAL CS1-7604-273 - SMT



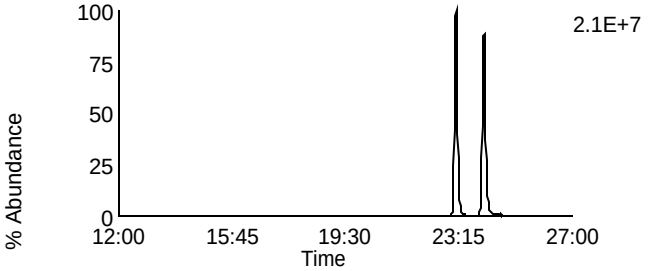
Data File: U140306A_05 G1 C10 - 331.9367
CAL CS1-7604-273 - SMT



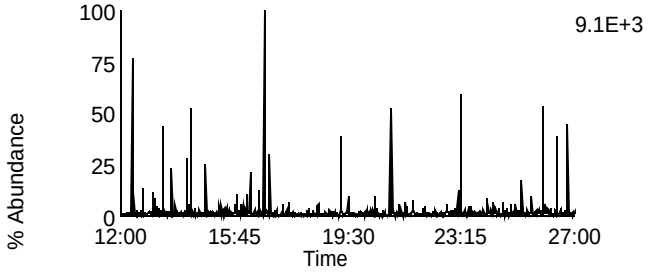
Data File: U140306A_05 G1 C4 - 317.9389
CAL CS1-7604-273 - SMT



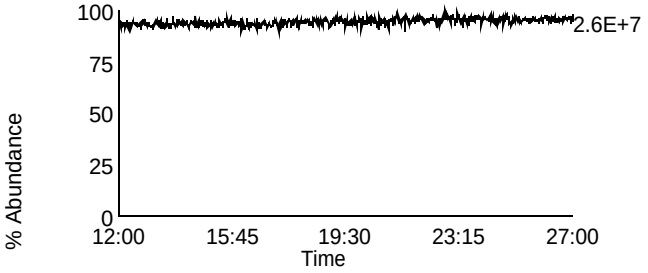
Data File: U140306A_05 G1 C11 - 333.9338
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G1 C14 - 375.8364
CAL CS1-7604-273 - SMT



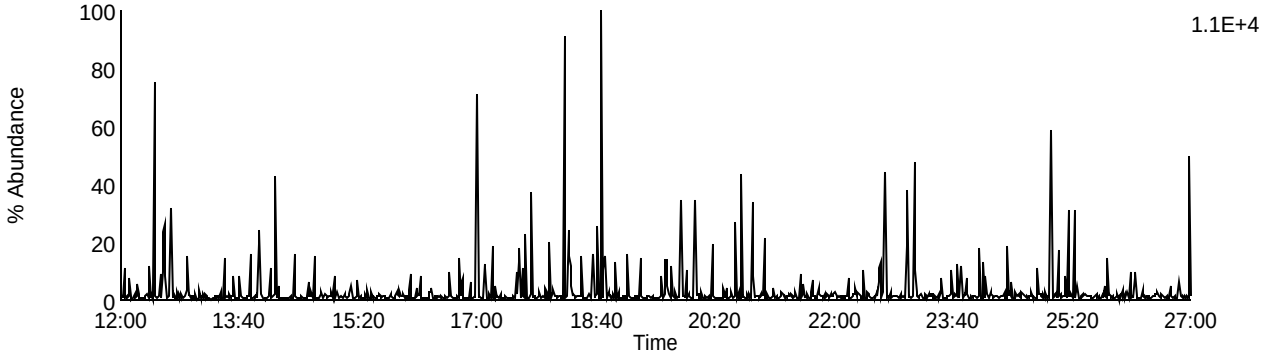
Data File: U140306A_05 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT



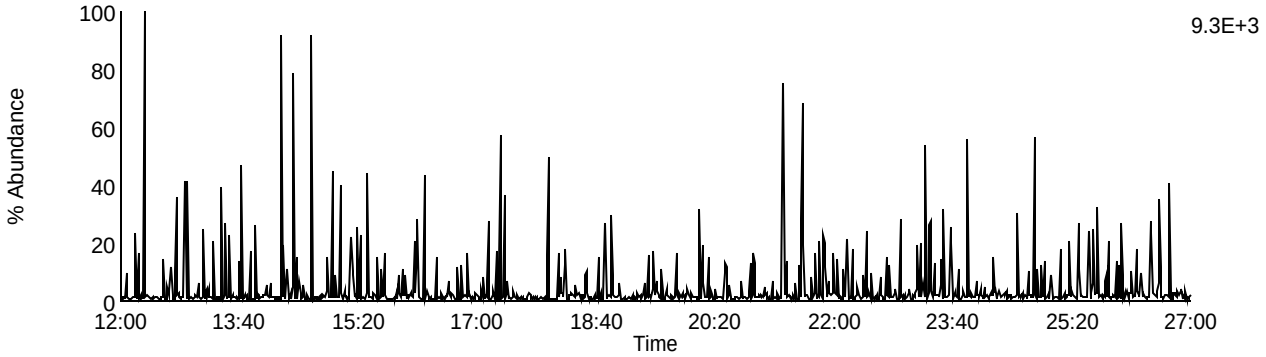
Homologue Group: Penta & Cleanup

Data File Name: U140306A_05	Lab Sample ID: CS1-7604-273
Date Acquired: 3/6/2014	Client Sample ID:
Sample Description: CAL CS1-7604-273 - SMT	Instrument: 10MSHR06 (U)

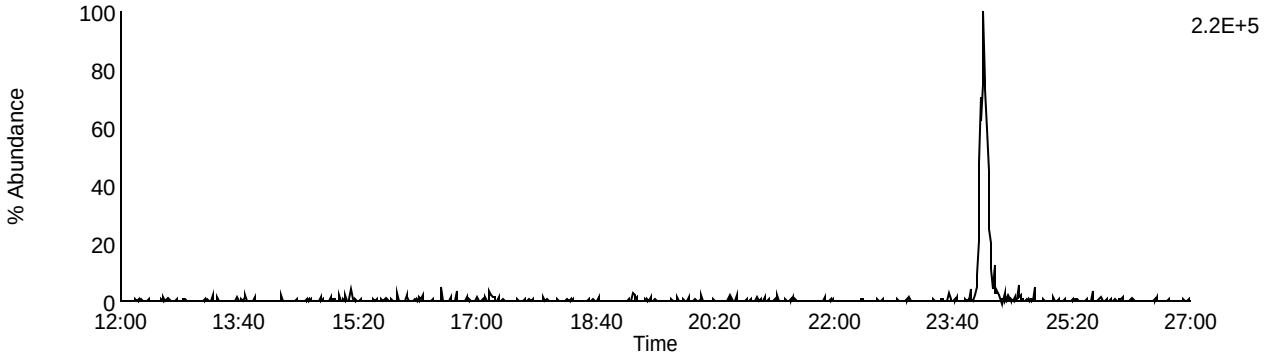
Data File: U140306A_05 G1 C12 - 339.8597
CAL CS1-7604-273 - SMT



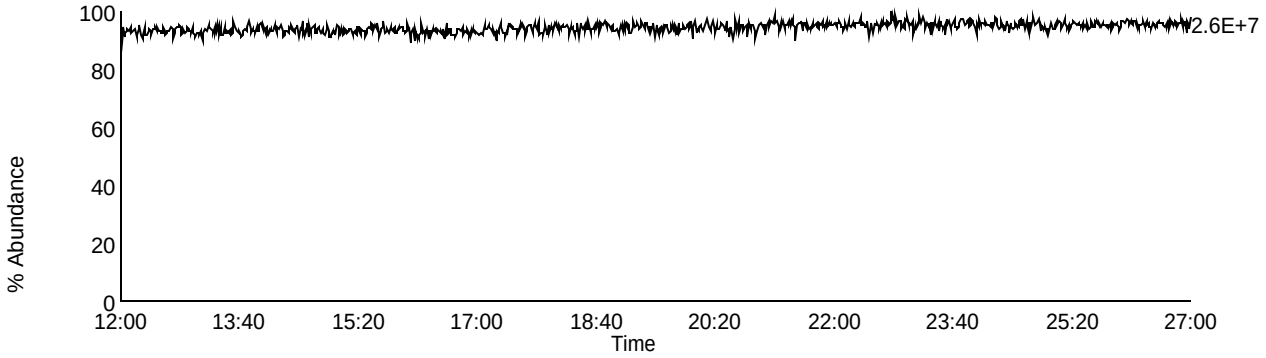
Data File: U140306A_05 G1 C13 - 341.8567
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G1 C9 - 327.8847
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT

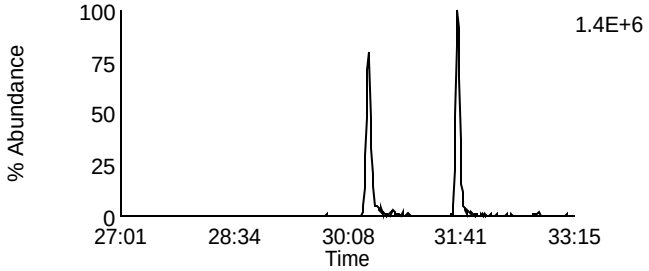


Homologue Group: Pentas

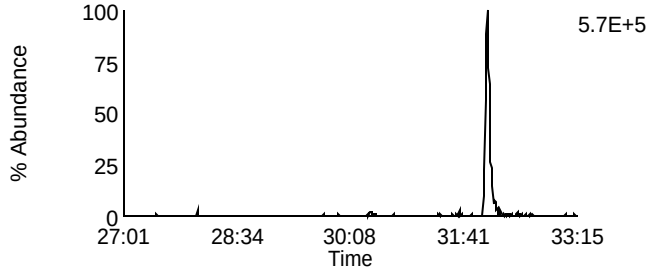
Data File Name: U140306A_05
Date Acquired: 3/6/2014
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

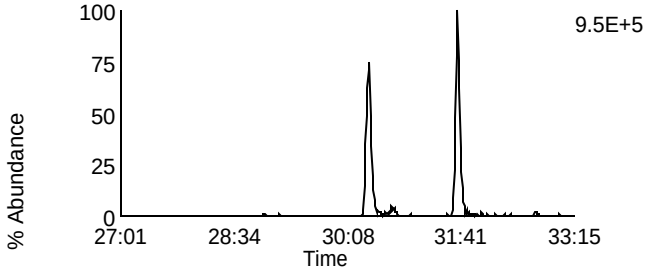
Data File: U140306A_05 G2 C1 - 339.8597
CAL CS1-7604-273 - SMT



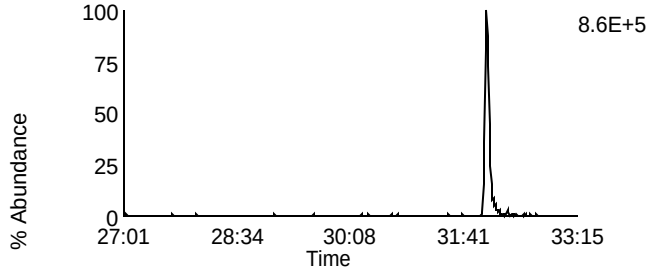
Data File: U140306A_05 G2 C4 - 353.8576
CAL CS1-7604-273 - SMT



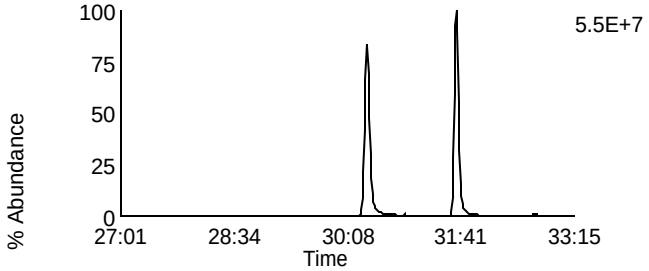
Data File: U140306A_05 G2 C2 - 341.8567
CAL CS1-7604-273 - SMT



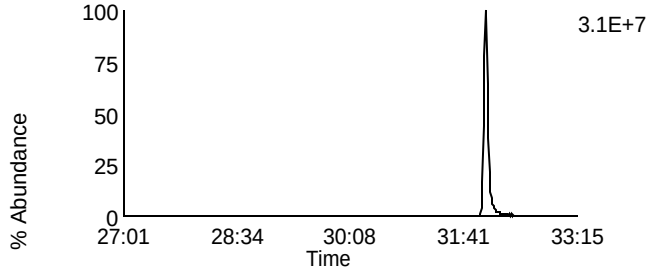
Data File: U140306A_05 G2 C8 - 355.8546
CAL CS1-7604-273 - SMT



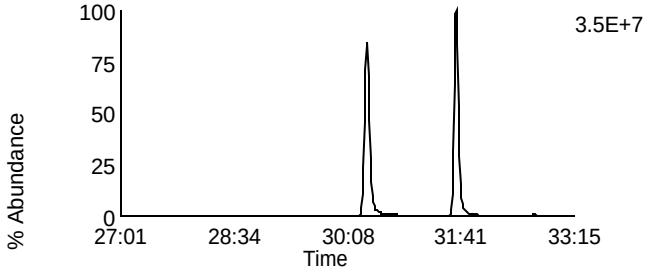
Data File: U140306A_05 G2 C3 - 351.8999
CAL CS1-7604-273 - SMT



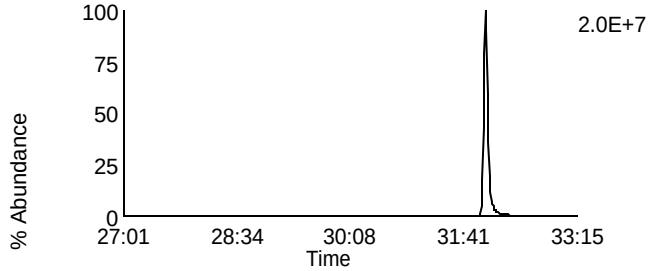
Data File: U140306A_05 G2 C10 - 367.8948
CAL CS1-7604-273 - SMT



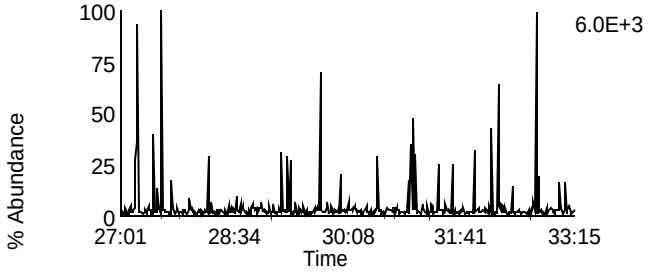
Data File: U140306A_05 G2 C5 - 353.8969
CAL CS1-7604-273 - SMT



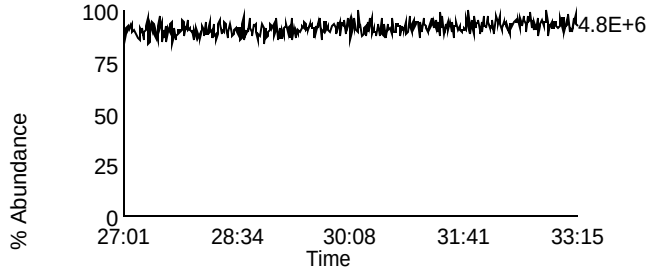
Data File: U140306A_05 G2 C11 - 369.8918
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G2 C12 - 409.7974
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G2 C6 - 354.9792
CAL CS1-7604-273 - SMT

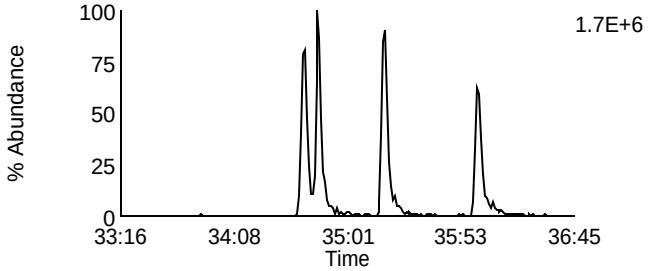


Homologue Group: Hexas

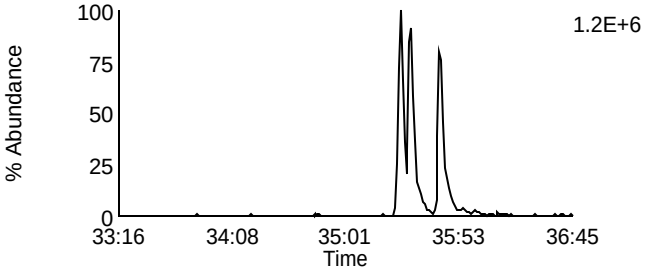
Data File Name: U140306A_05
Date Acquired: 3/6/2014
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

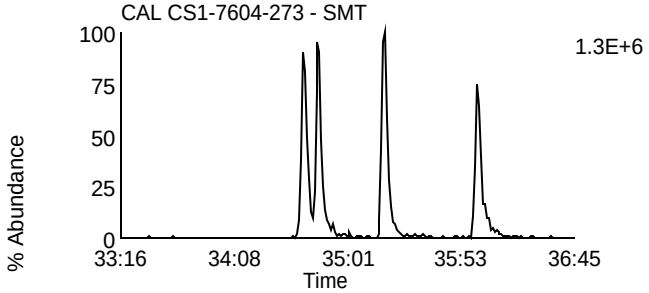
Data File: U140306A_05 G3 C1 - 373.8207
CAL CS1-7604-273 - SMT



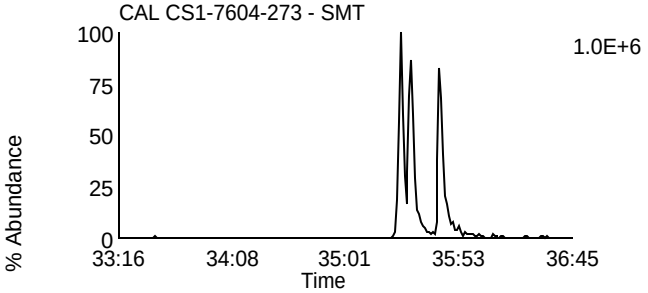
Data File: U140306A_05 G3 C7 - 389.8156
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C2 - 375.8178
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C8 - 391.8127
CAL CS1-7604-273 - SMT



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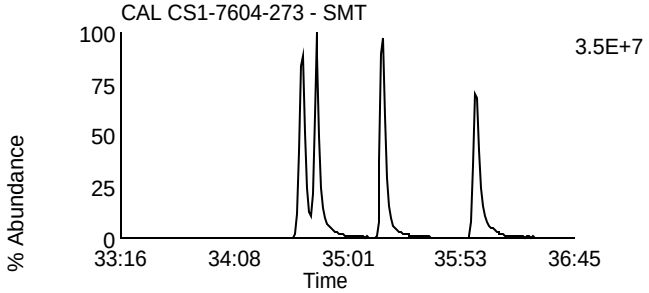
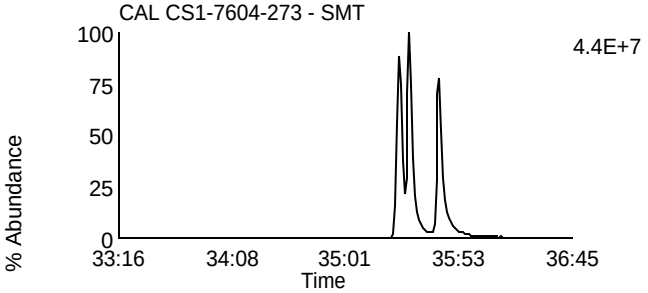
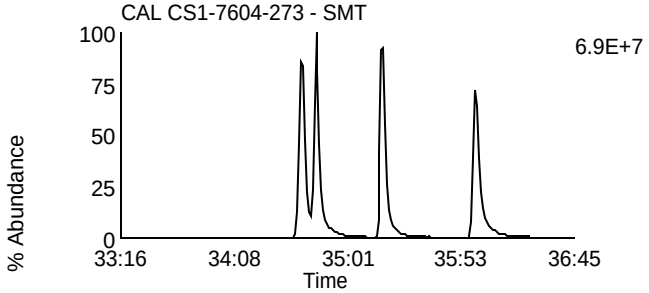
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C9 - 401.8559
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C6 - 385.861
CAL CS1-7604-273 - SMT



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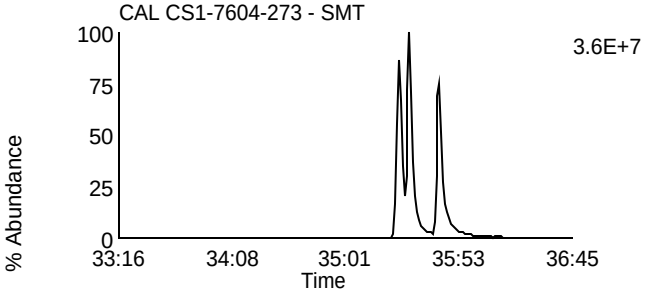
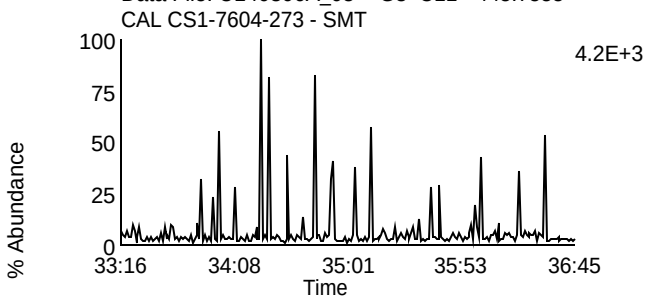
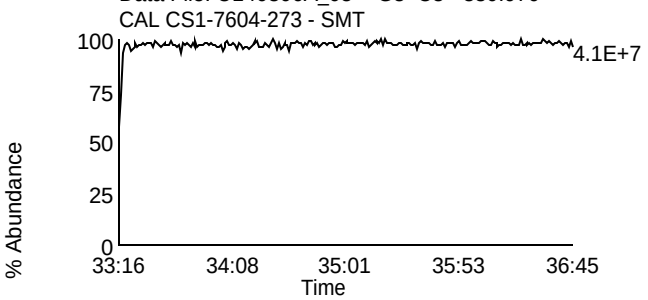
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C11 - 445.7555
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G3 C3 - 380.976
CAL CS1-7604-273 - SMT

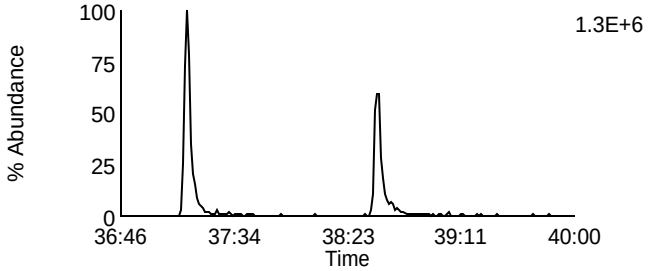


Homologue Group: Heptas

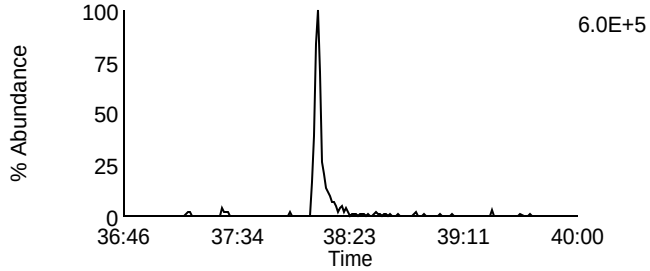
Data File Name: U140306A_05
Date Acquired: 3/6/2014
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

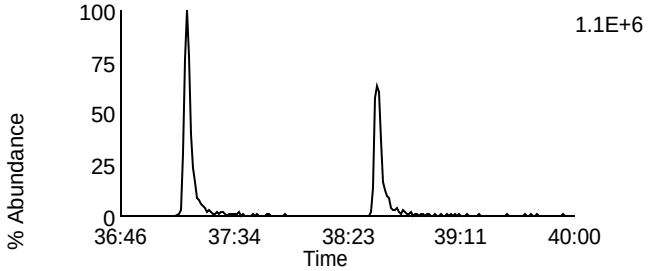
Data File: U140306A_05 G4 C3 - 407.7818
CAL CS1-7604-273 - SMT



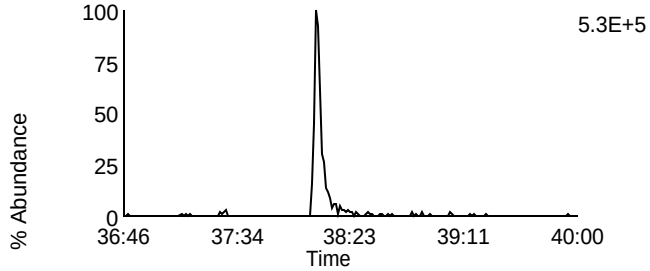
Data File: U140306A_05 G4 C8 - 423.7767
CAL CS1-7604-273 - SMT



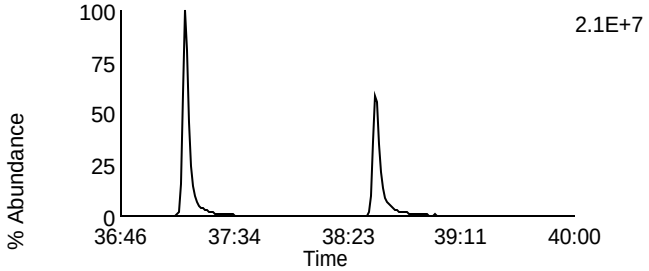
Data File: U140306A_05 G4 C4 - 409.7788
CAL CS1-7604-273 - SMT



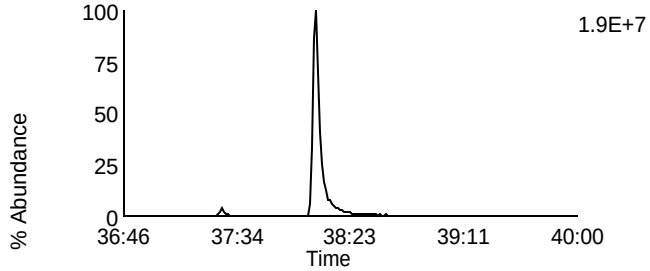
Data File: U140306A_05 G4 C9 - 425.7737
CAL CS1-7604-273 - SMT



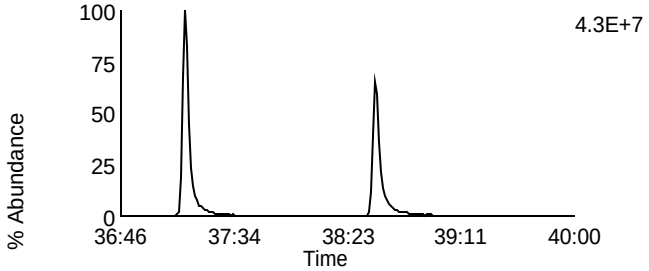
Data File: U140306A_05 G4 C6 - 417.825
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G4 C11 - 435.8169
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G4 C7 - 419.822
CAL CS1-7604-273 - SMT



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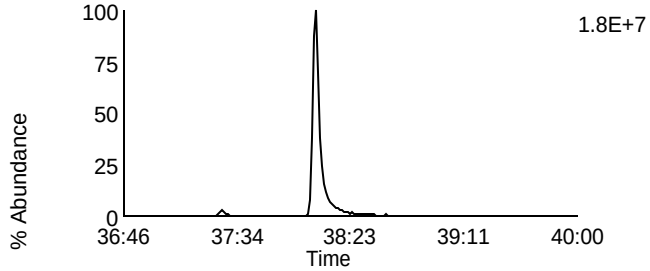
CAL CS1-7604-273 - SMT



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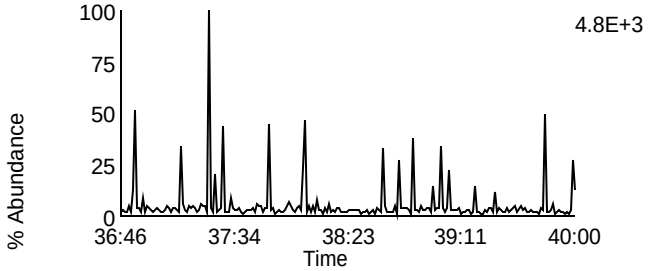
CAL CS1-7604-273 - SMT



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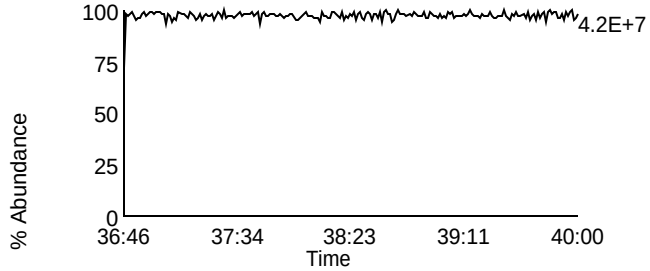
CAL CS1-7604-273 - SMT

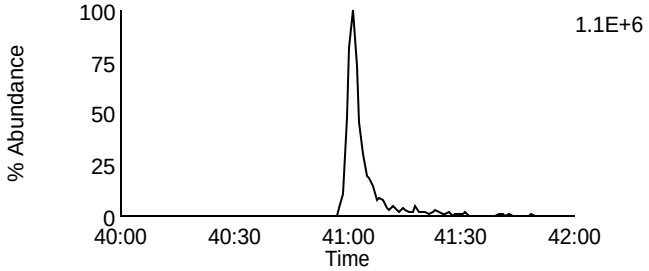


Homologue Group: Octas

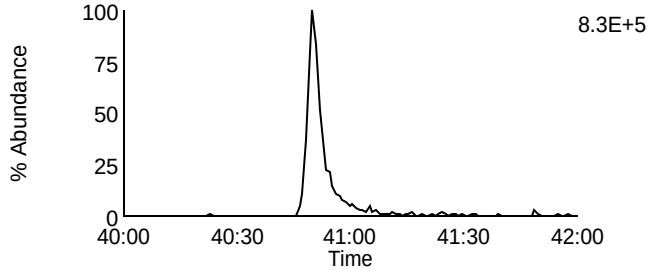
Data File Name: U140306A_05
Date Acquired: 3/6/2014
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_05 G5 C4 - 441.7428
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G5 C8 - 457.7377
CAL CS1-7604-273 - SMT



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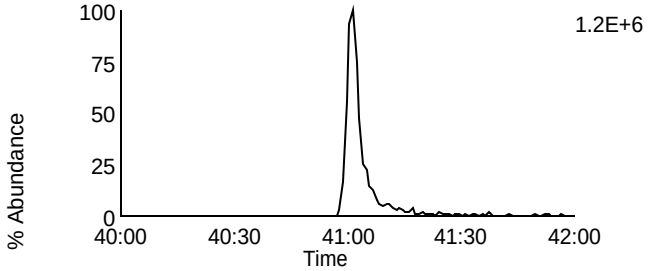
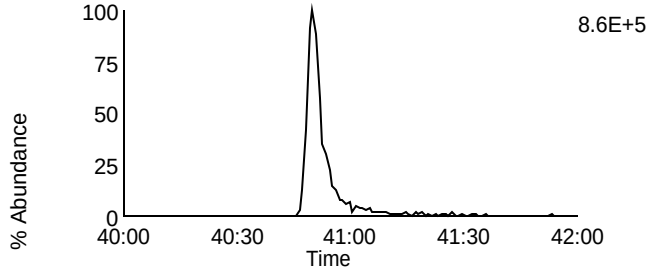
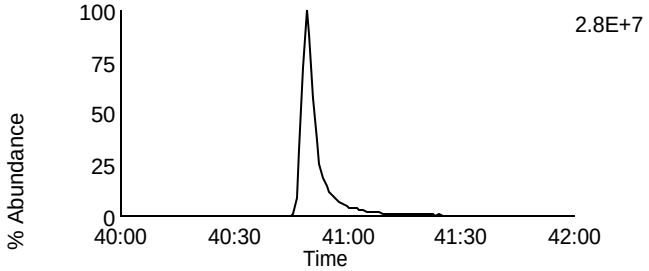
CAL CS1-7604-273 - SMT



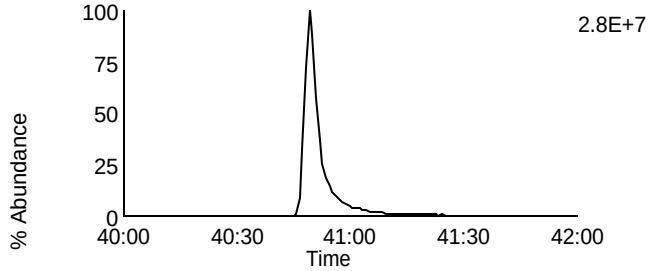
Data File: U140306A_05 G5 C9 - 459.7347
CAL CS1-7604-273 - SMT



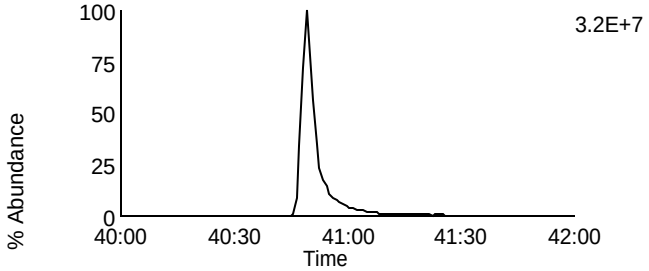
Data File: U140306A_05 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



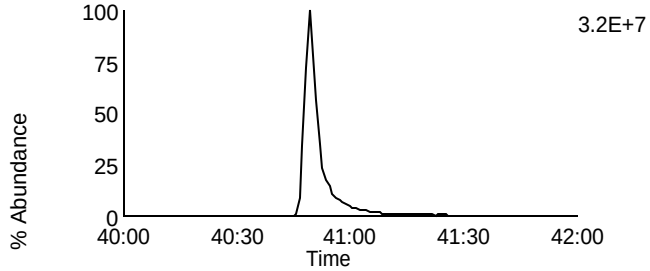
Data File: U140306A_05 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



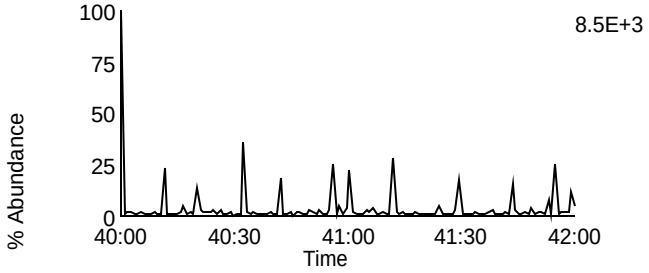
Data File: U140306A_05 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



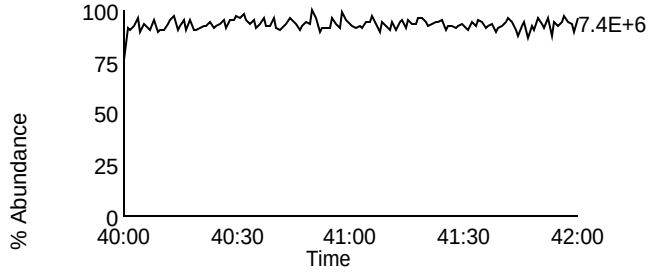
Data File: U140306A_05 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G5 C13 - 513.6775
CAL CS1-7604-273 - SMT



Data File: U140306A_05 G5 C2 - 430.9728
CAL CS1-7604-273 - SMT

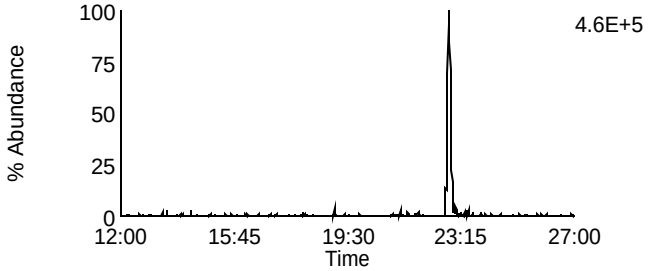


Homologue Group: Tetras

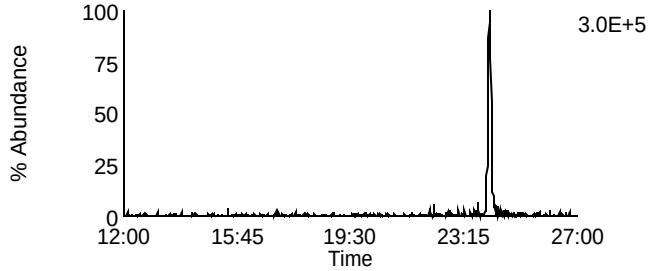
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

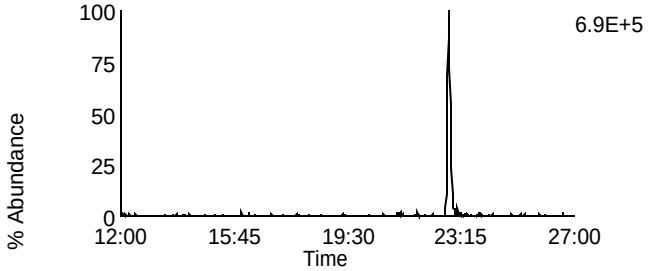
Data File: U140306A_04 G1 C1 - 303.9016
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C7 - 319.8965
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C2 - 305.8987
CAL CS2-7604-276 - SMT



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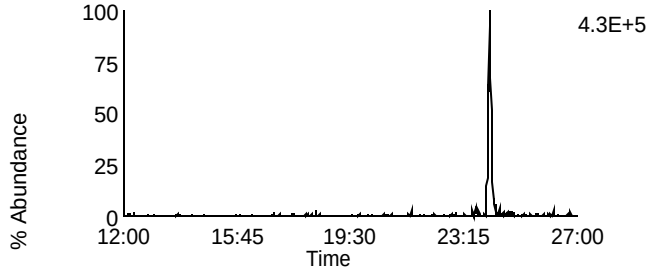
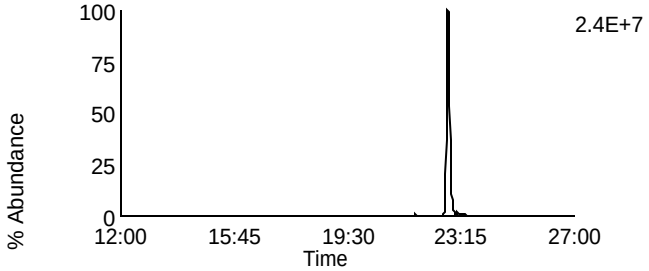
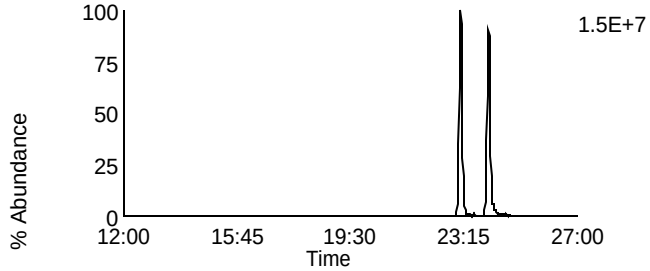
CAL CS2-7604-276 - SMT



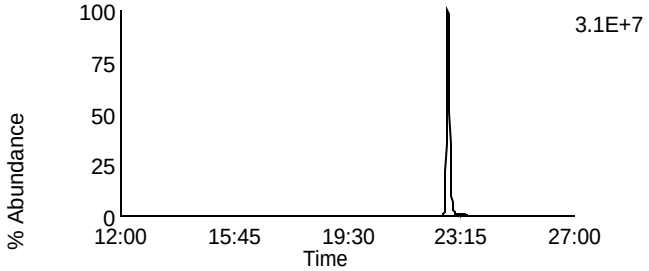
Data File: U140306A_04 G1 C3 - 315.9418
CAL CS2-7604-276 - SMT



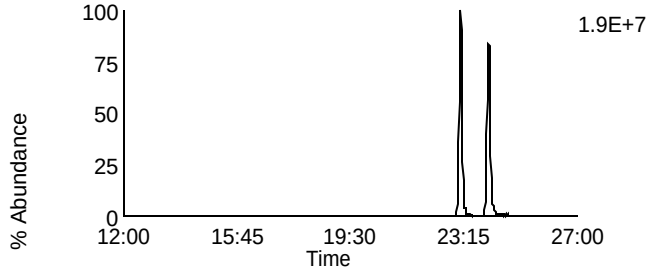
Data File: U140306A_04 G1 C10 - 331.9367
CAL CS2-7604-276 - SMT



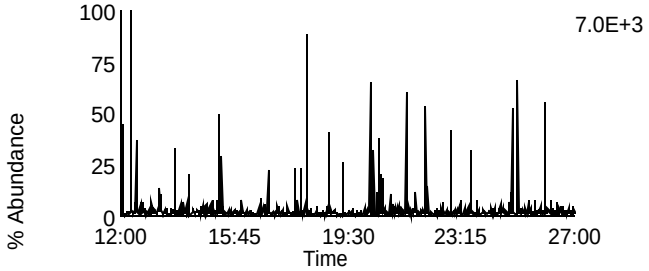
Data File: U140306A_04 G1 C4 - 317.9389
CAL CS2-7604-276 - SMT



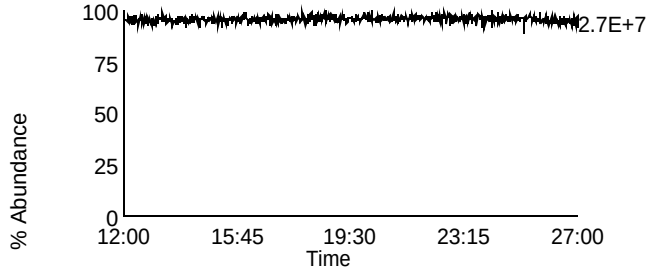
Data File: U140306A_04 G1 C11 - 333.9338
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C14 - 375.8364
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C5 - 318.9792
CAL CS2-7604-276 - SMT

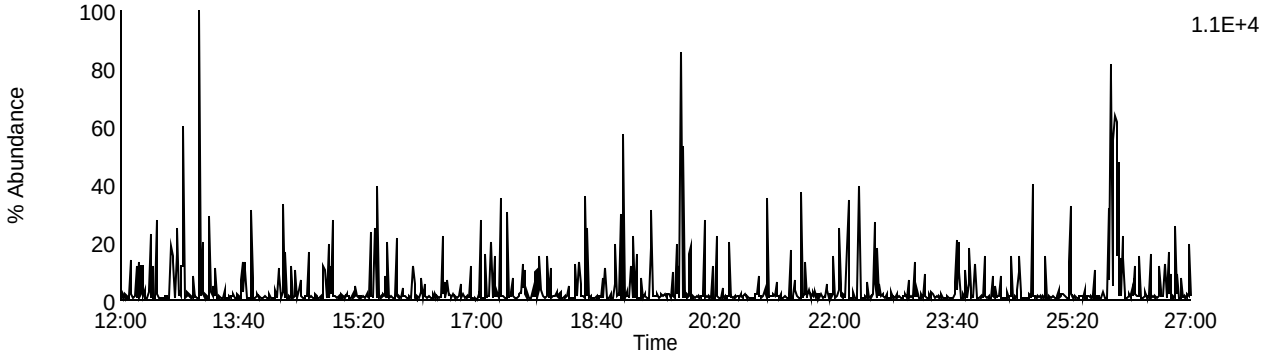


Homologue Group: Penta & Cleanup

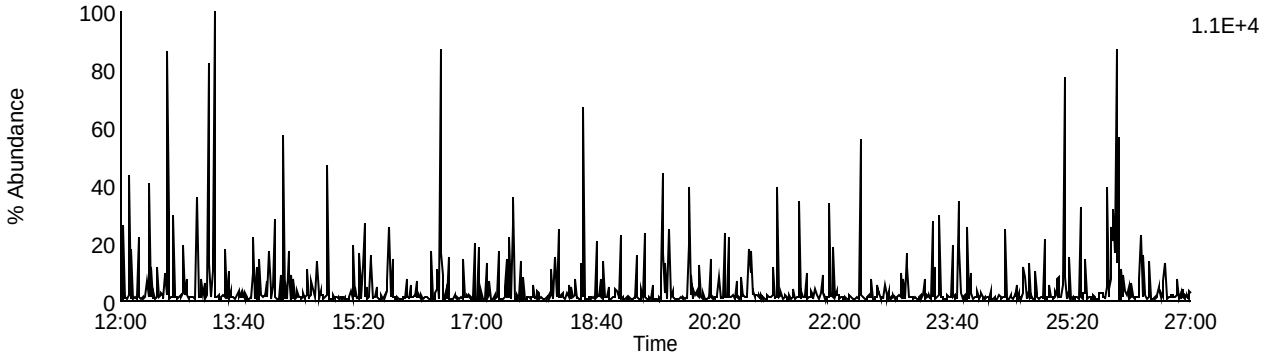
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

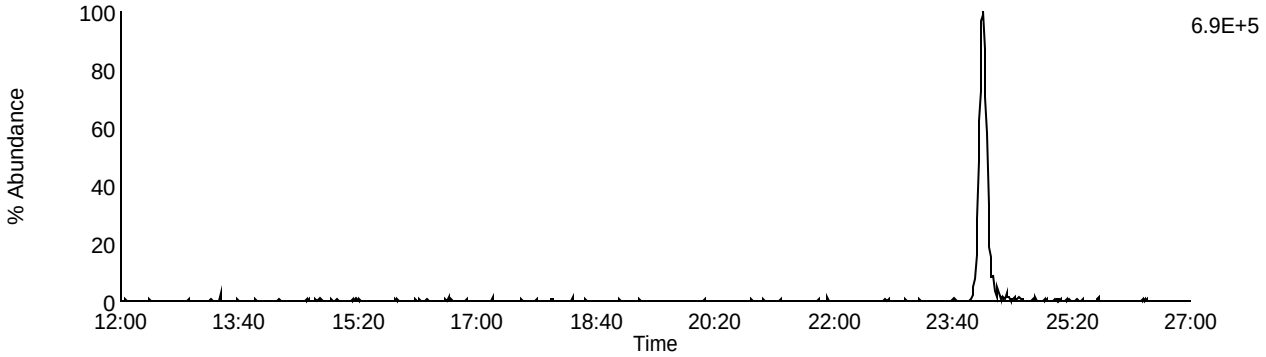
Data File: U140306A_04 G1 C12 - 339.8597
CAL CS2-7604-276 - SMT



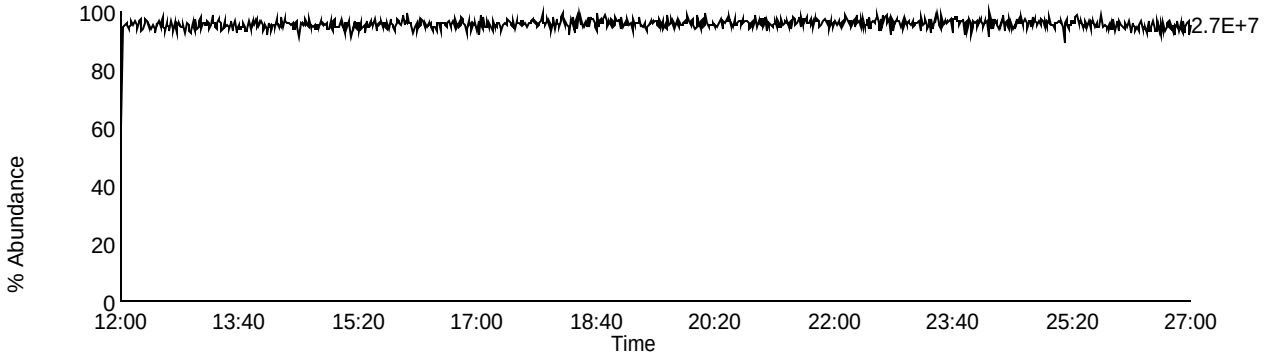
Data File: U140306A_04 G1 C13 - 341.8567
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C9 - 327.8847
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G1 C5 - 318.9792
CAL CS2-7604-276 - SMT

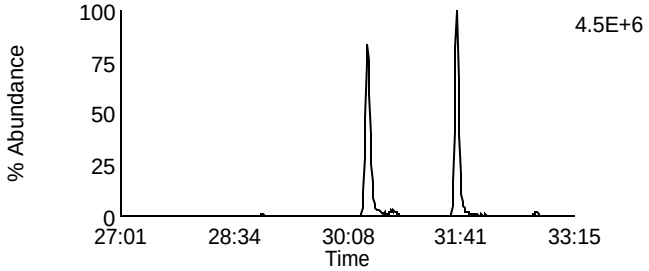


Homologue Group: Pentas

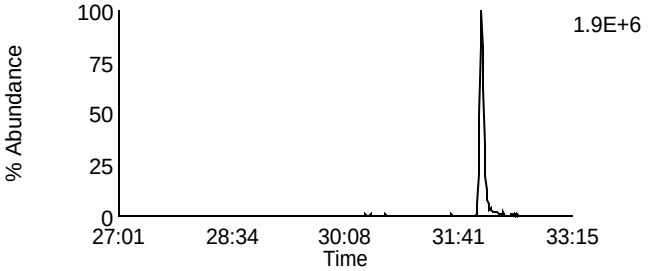
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

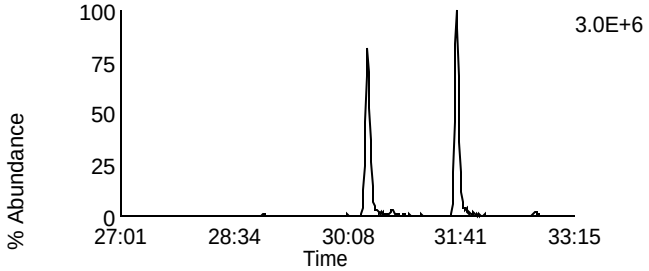
Data File: U140306A_04 G2 C1 - 339.8597
CAL CS2-7604-276 - SMT



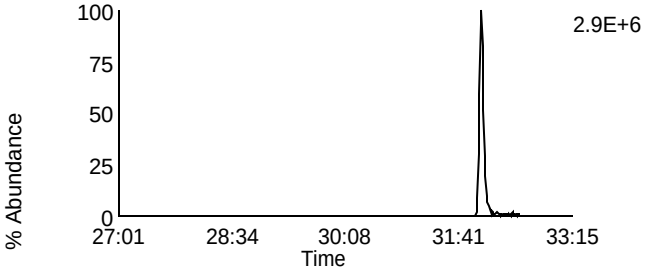
Data File: U140306A_04 G2 C4 - 353.8576
CAL CS2-7604-276 - SMT



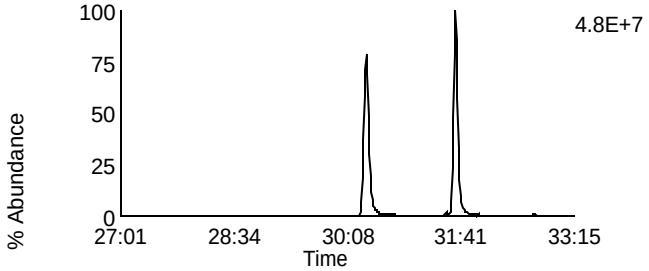
Data File: U140306A_04 G2 C2 - 341.8567
CAL CS2-7604-276 - SMT



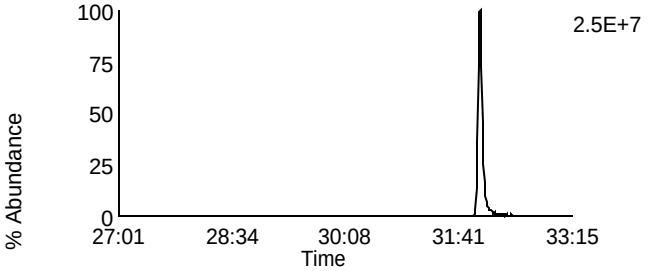
Data File: U140306A_04 G2 C8 - 355.8546
CAL CS2-7604-276 - SMT



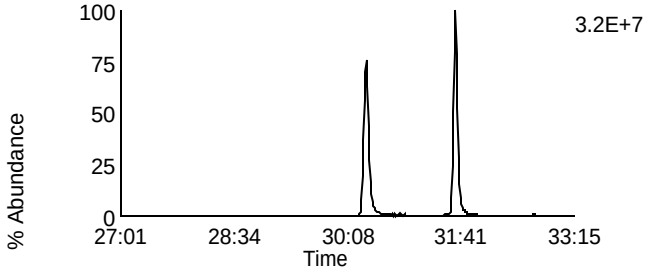
Data File: U140306A_04 G2 C3 - 351.8999
CAL CS2-7604-276 - SMT



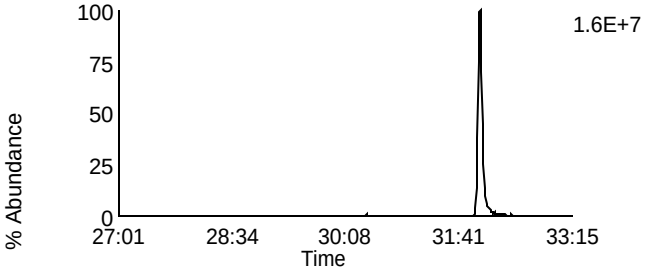
Data File: U140306A_04 G2 C10 - 367.8948
CAL CS2-7604-276 - SMT



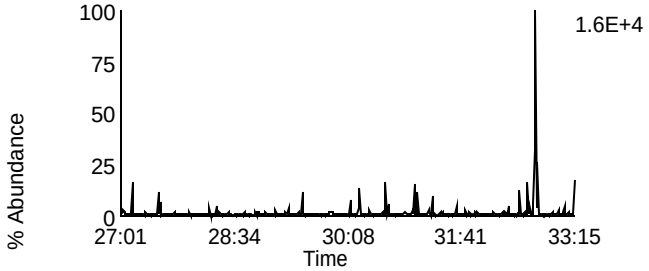
Data File: U140306A_04 G2 C5 - 353.8969
CAL CS2-7604-276 - SMT



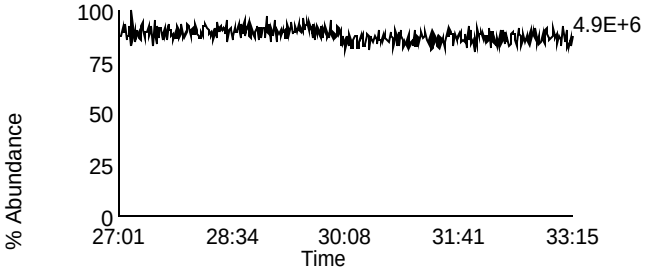
Data File: U140306A_04 G2 C11 - 369.8918
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G2 C12 - 409.7974
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G2 C6 - 354.9792
CAL CS2-7604-276 - SMT

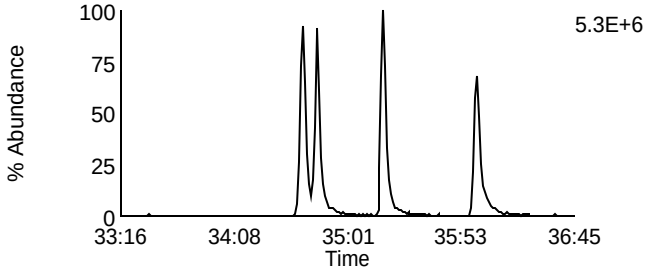


Homologue Group: Hexas

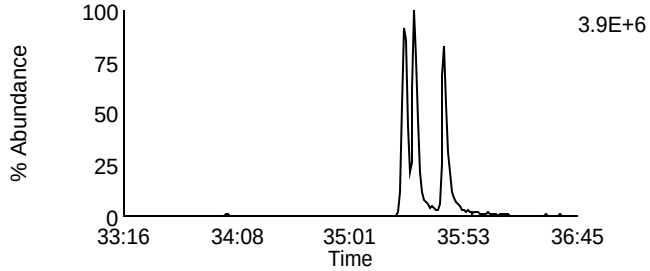
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

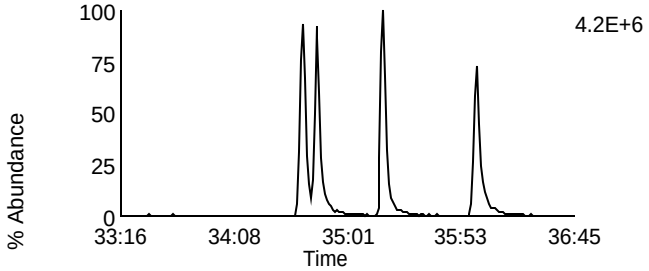
Data File: U140306A_04 G3 C1 - 373.8207
CAL CS2-7604-276 - SMT



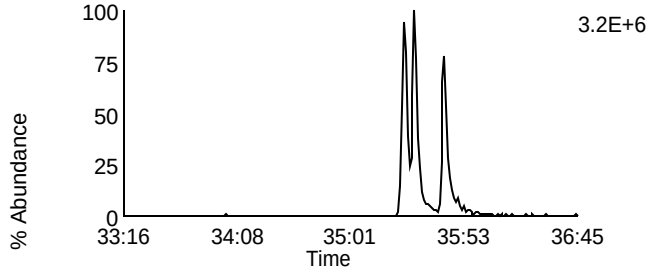
Data File: U140306A_04 G3 C7 - 389.8156
CAL CS2-7604-276 - SMT



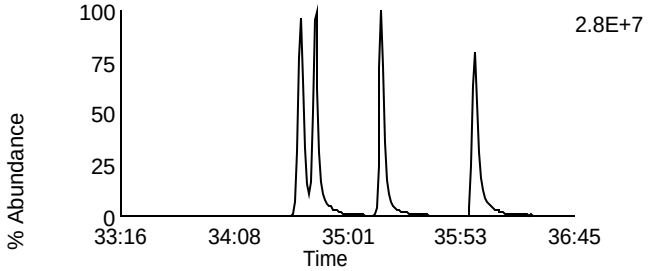
Data File: U140306A_04 G3 C2 - 375.8178
CAL CS2-7604-276 - SMT



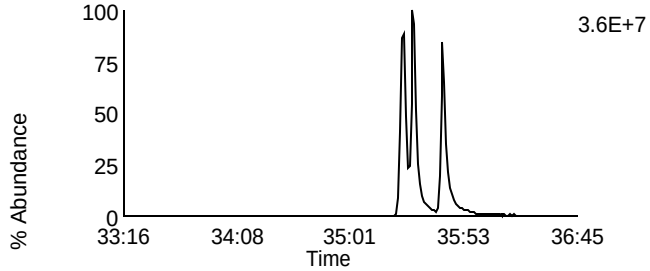
Data File: U140306A_04 G3 C8 - 391.8127
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G3 C5 - 383.8639
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G3 C9 - 401.8559
CAL CS2-7604-276 - SMT



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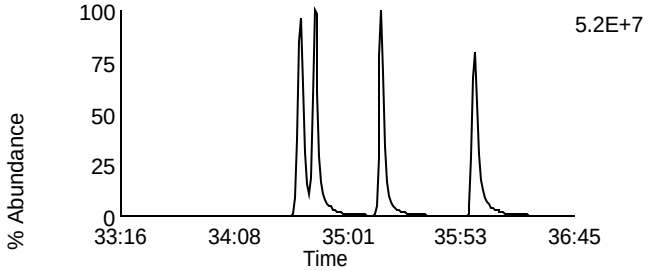
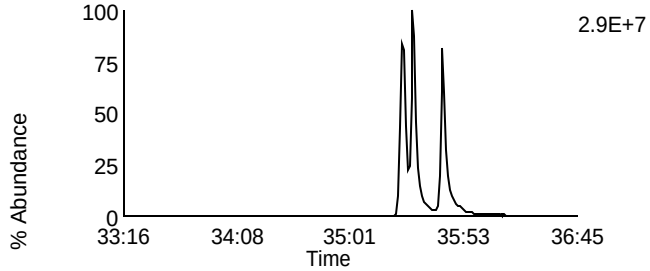
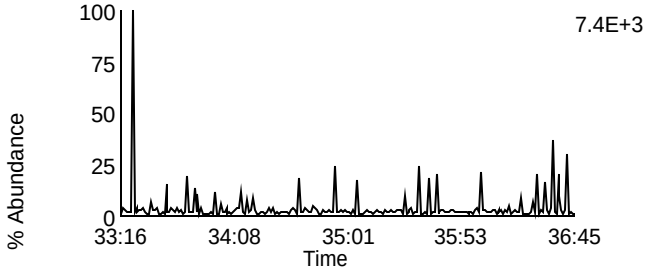
CAL CS2-7604-276 - SMT



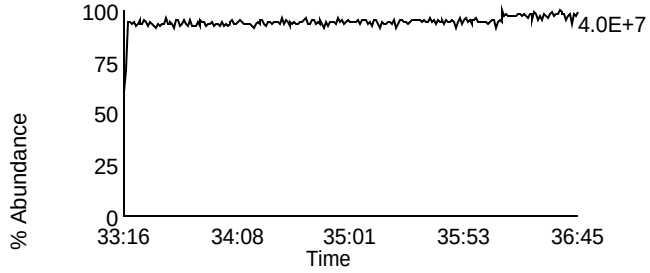
Data File: U140306A_04 G3 C10 - 403.8529
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G3 C11 - 445.7555
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G3 C3 - 380.976
CAL CS2-7604-276 - SMT

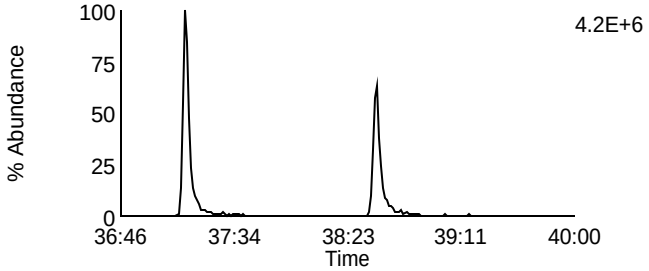


Homologue Group: Heptas

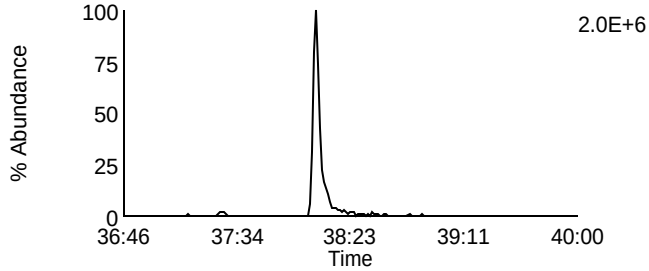
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

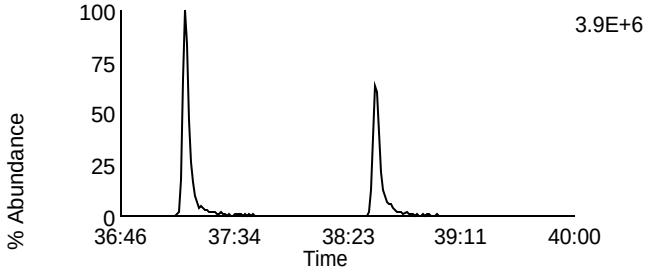
Data File: U140306A_04 G4 C3 - 407.7818
CAL CS2-7604-276 - SMT



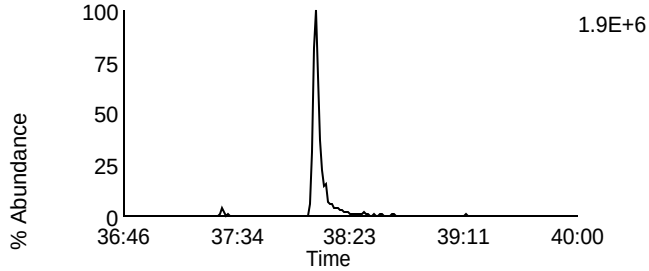
Data File: U140306A_04 G4 C8 - 423.7767
CAL CS2-7604-276 - SMT



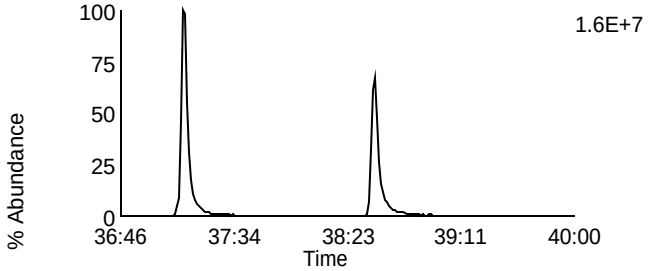
Data File: U140306A_04 G4 C4 - 409.7788
CAL CS2-7604-276 - SMT



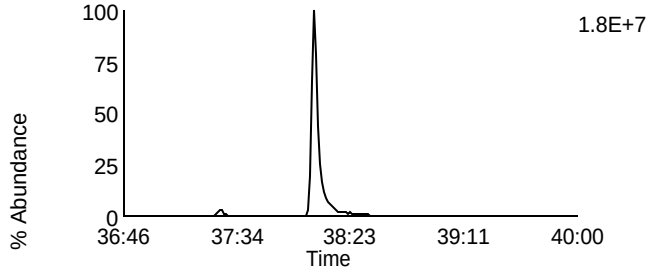
Data File: U140306A_04 G4 C9 - 425.7737
CAL CS2-7604-276 - SMT



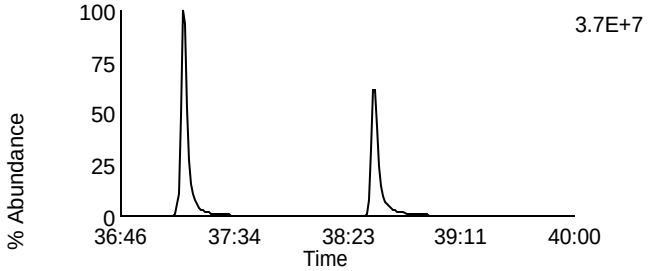
Data File: U140306A_04 G4 C6 - 417.825
CAL CS2-7604-276 - SMT



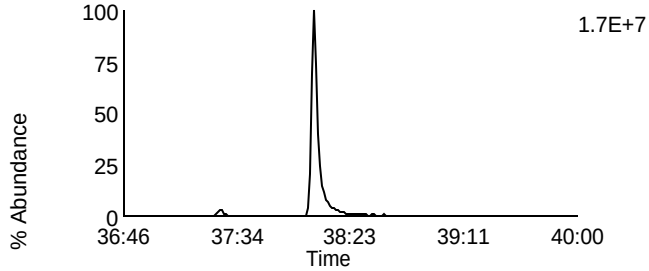
Data File: U140306A_04 G4 C11 - 435.8169
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G4 C7 - 419.822
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G4 C12 - 437.814
CAL CS2-7604-276 - SMT



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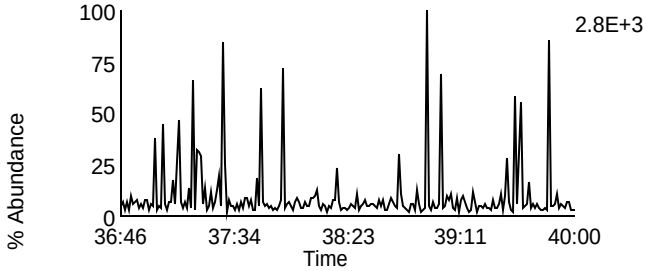
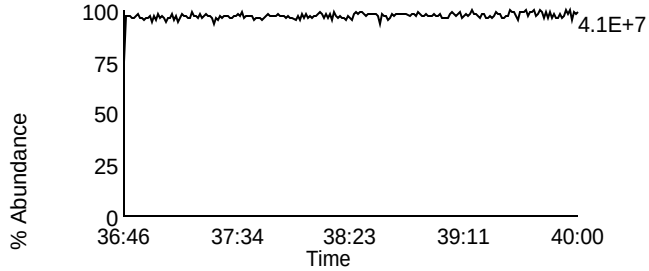
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G4 C1 - 380.976
CAL CS2-7604-276 - SMT

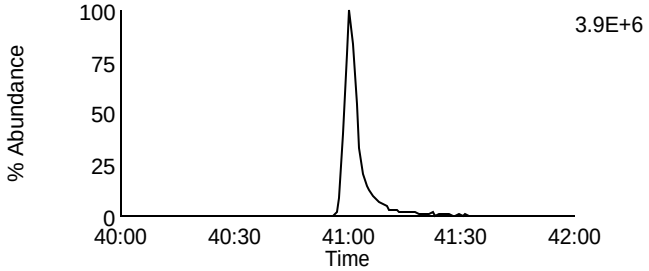


Homologue Group: Octas

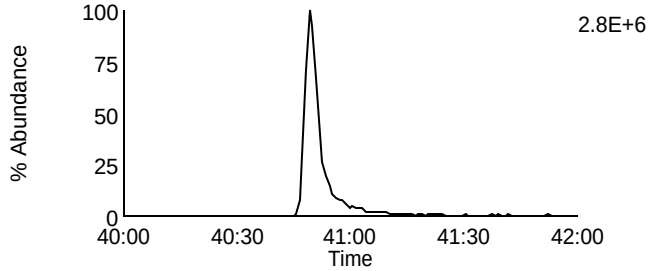
Data File Name: U140306A_04
Date Acquired: 3/6/2014
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

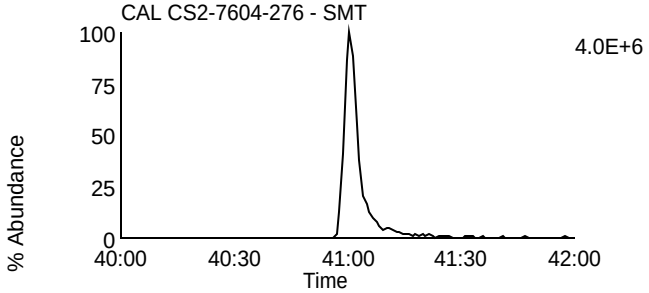
Data File: U140306A_04 G5 C4 - 441.7428
CAL CS2-7604-276 - SMT



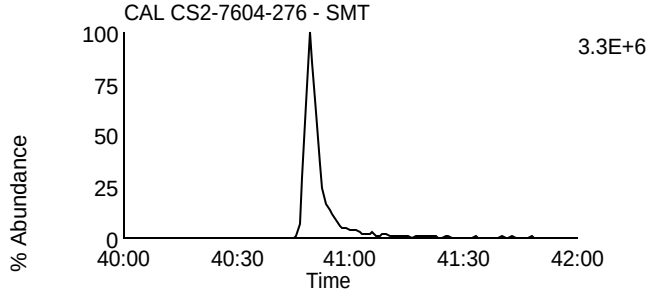
Data File: U140306A_04 G5 C8 - 457.7377
CAL CS2-7604-276 - SMT



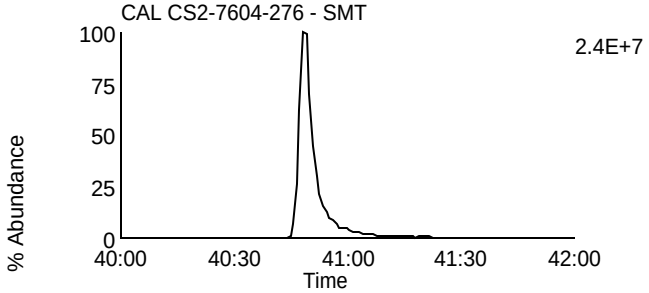
Data File: U140306A_04 G5 C5 - 443.7398
CAL CS2-7604-276 - SMT



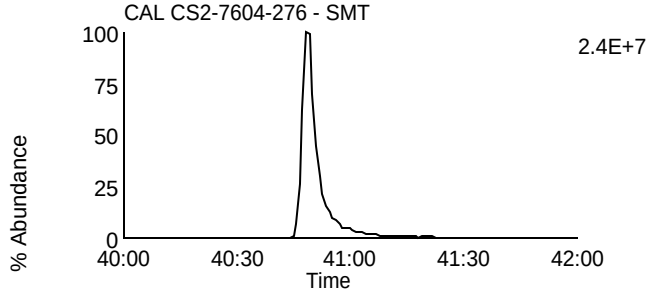
Data File: U140306A_04 G5 C9 - 459.7347
CAL CS2-7604-276 - SMT



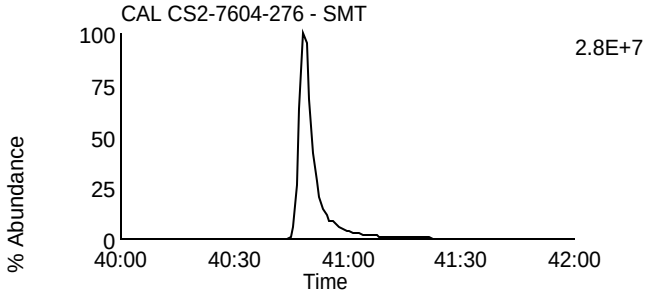
Data File: U140306A_04 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



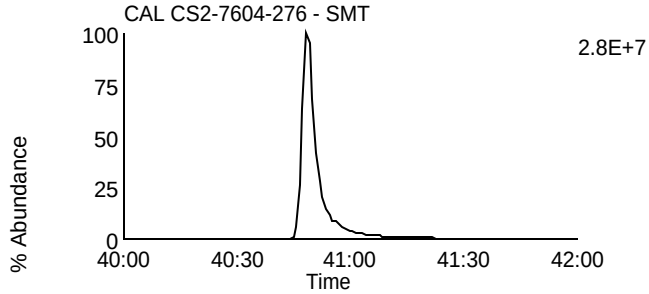
Data File: U140306A_04 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



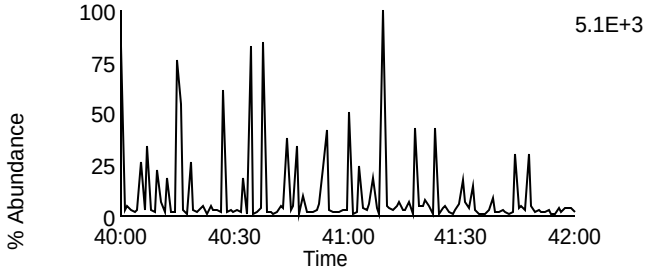
Data File: U140306A_04 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



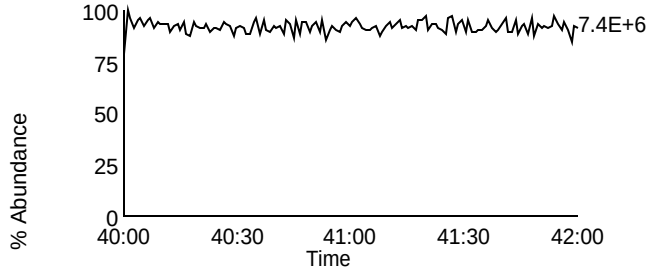
Data File: U140306A_04 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G5 C13 - 513.6775
CAL CS2-7604-276 - SMT



Data File: U140306A_04 G5 C2 - 430.9728
CAL CS2-7604-276 - SMT

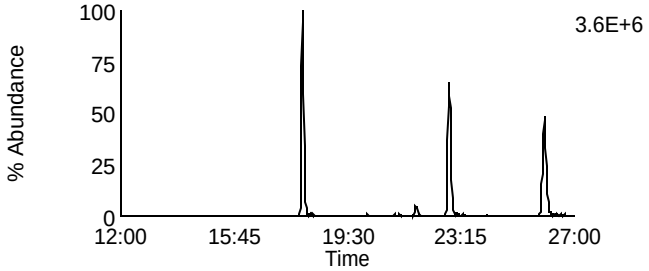


Homologue Group: Tetras

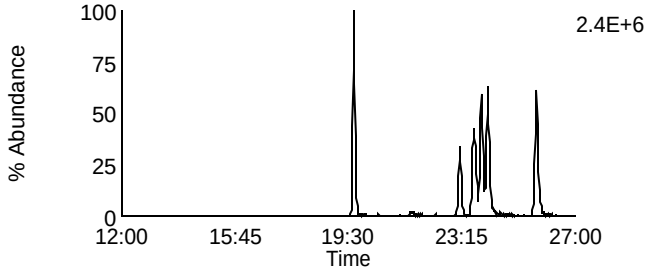
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

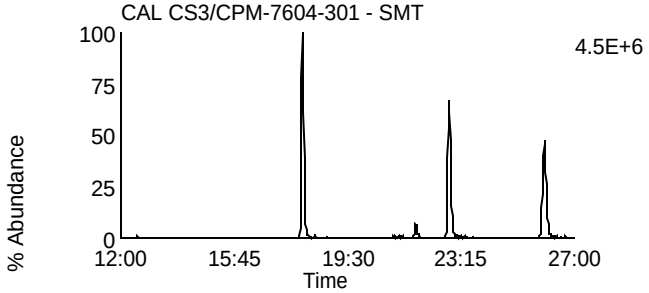
Data File: U140306A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - SMT



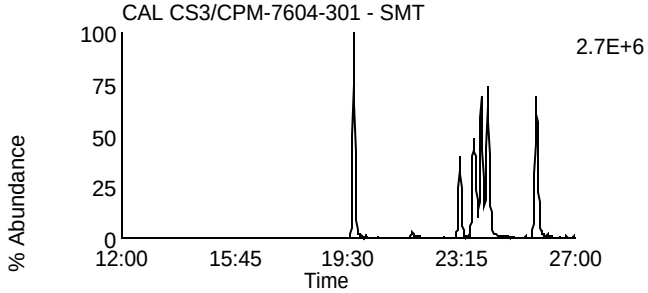
Data File: U140306A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - SMT



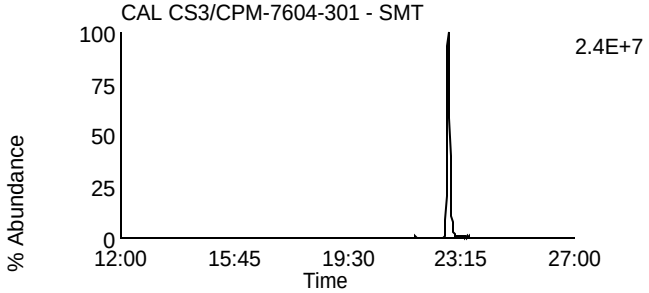
Data File: U140306A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - SMT



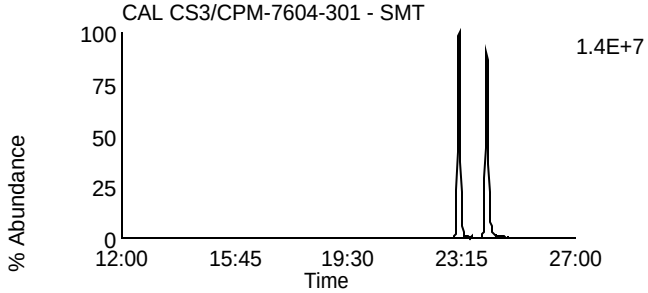
Data File: U140306A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - SMT



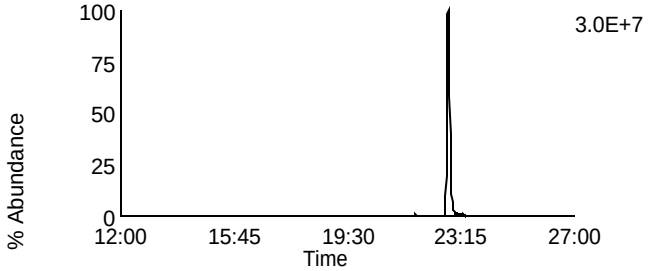
Data File: U140306A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - SMT



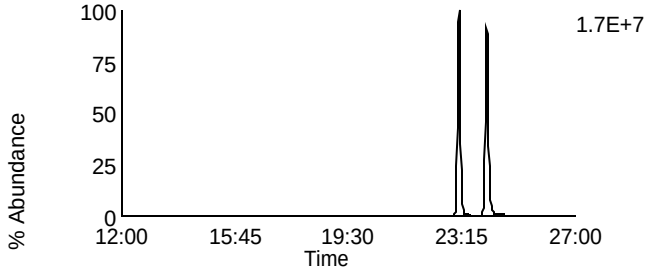
Data File: U140306A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - SMT



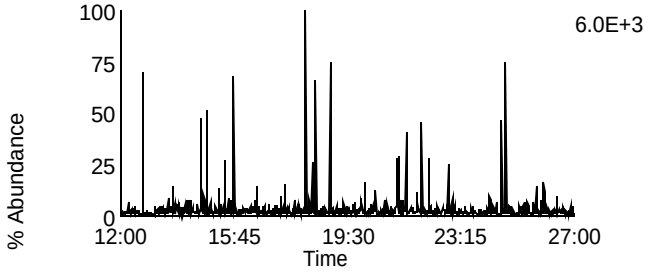
Data File: U140306A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - SMT



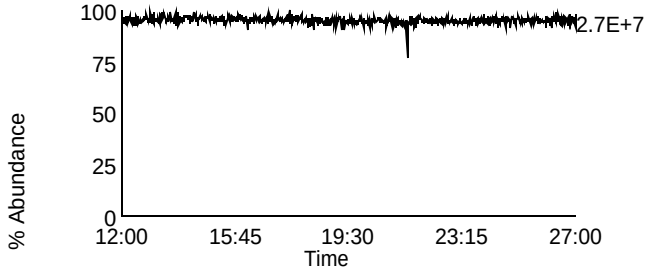
Data File: U140306A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

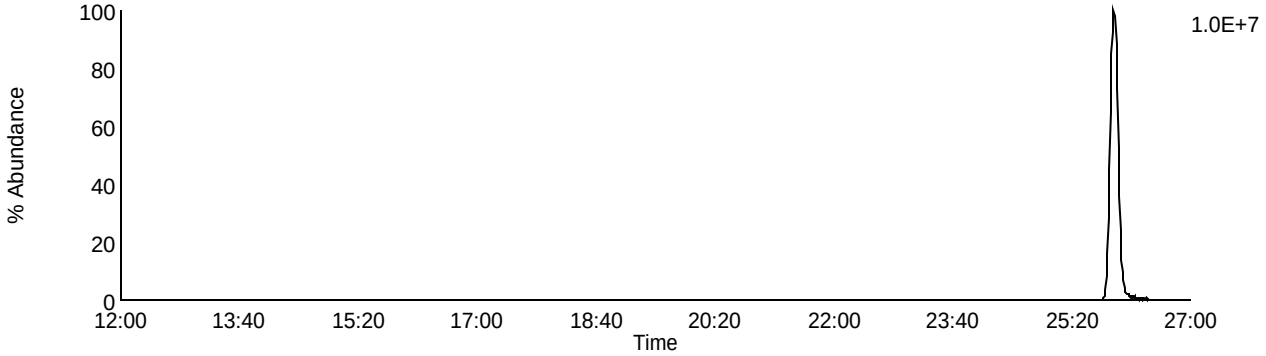


Homologue Group: Penta & Cleanup

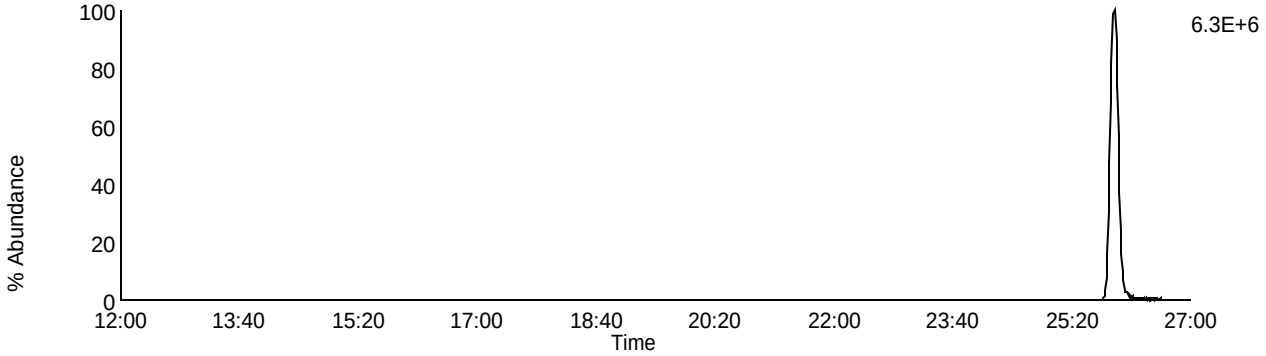
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

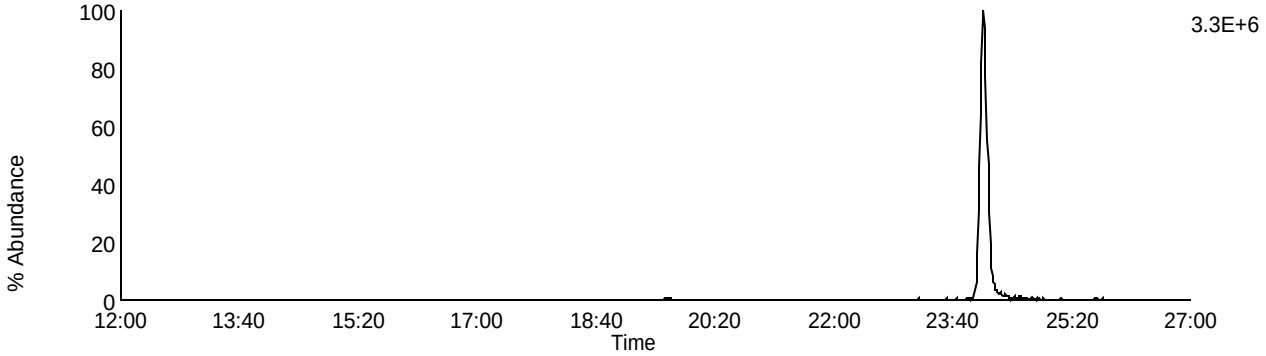
Data File: U140306A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - SMT



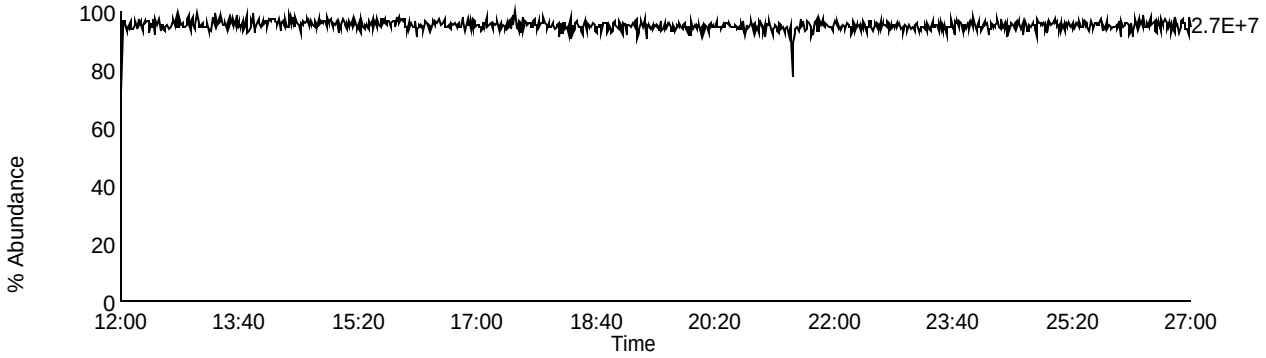
Data File: U140306A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

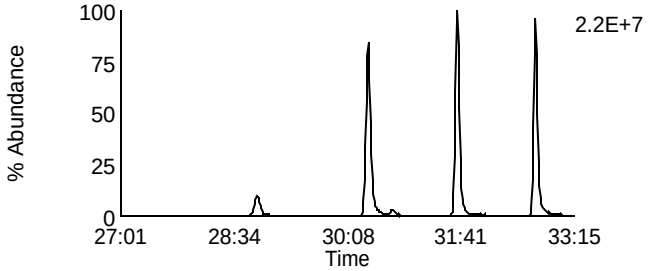


Homologue Group: Pentas

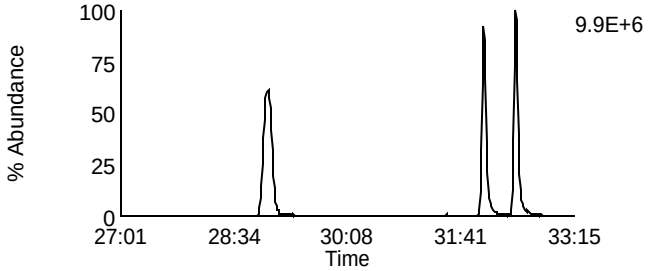
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

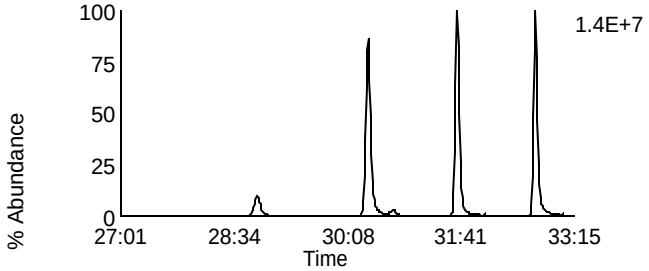
Data File: U140306A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - SMT



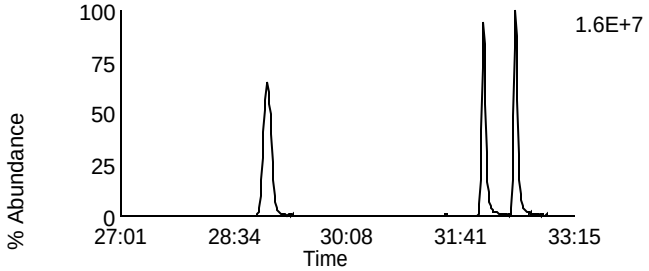
Data File: U140306A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - SMT



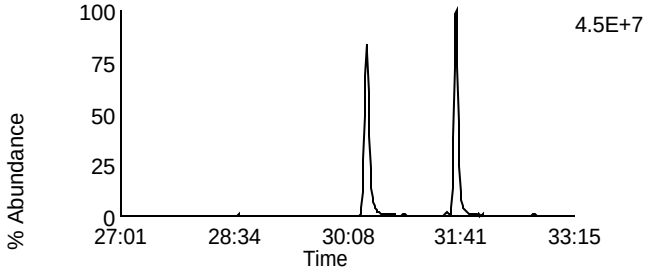
Data File: U140306A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - SMT



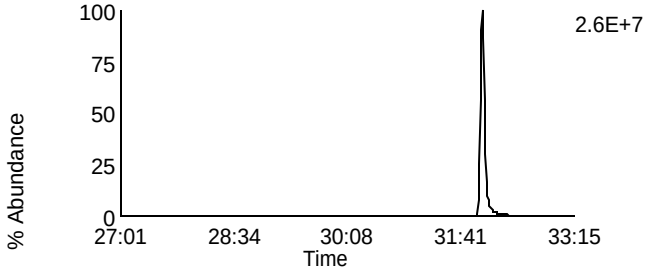
Data File: U140306A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - SMT



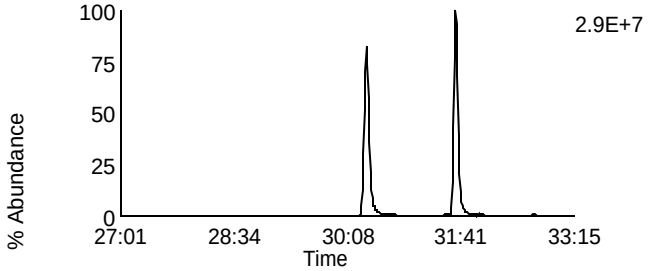
Data File: U140306A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - SMT



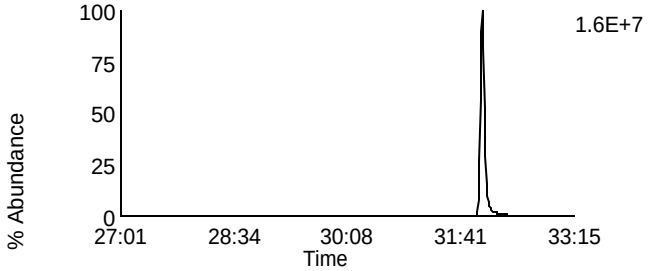
Data File: U140306A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - SMT



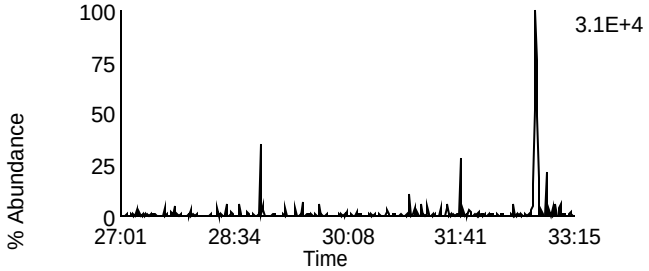
Data File: U140306A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - SMT



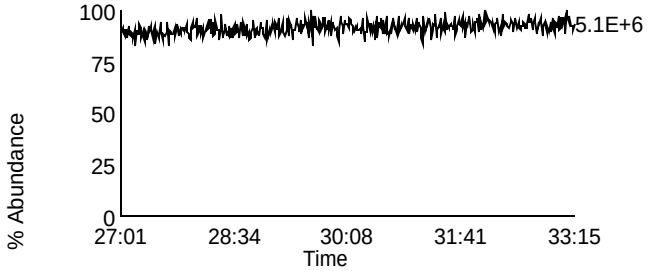
Data File: U140306A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - SMT

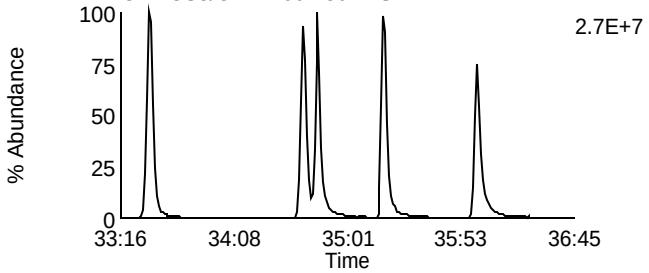


Homologue Group: Hexas

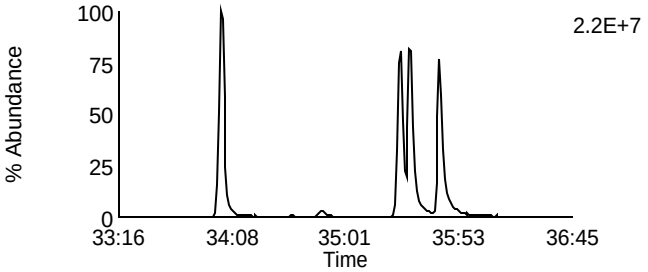
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

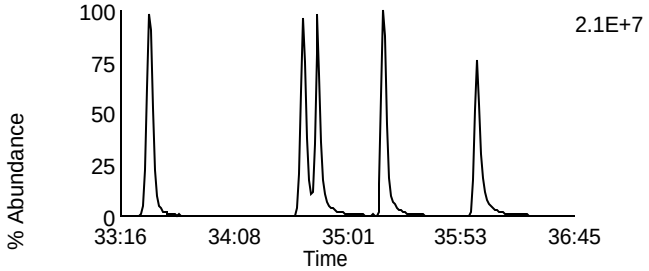
Data File: U140306A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - SMT



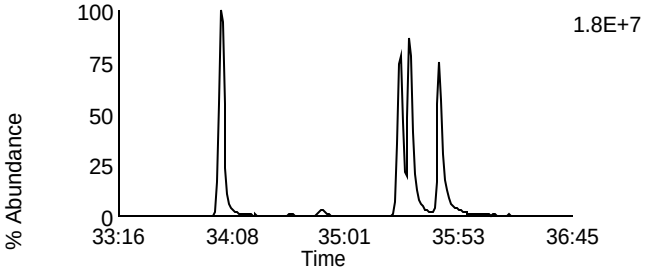
Data File: U140306A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - SMT



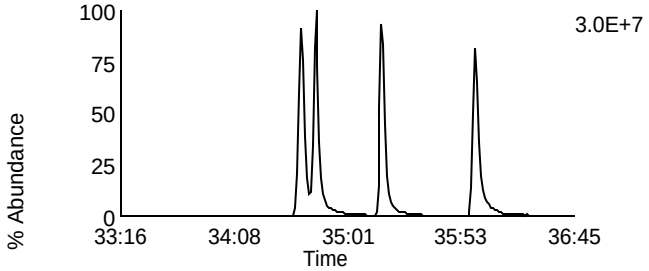
Data File: U140306A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - SMT



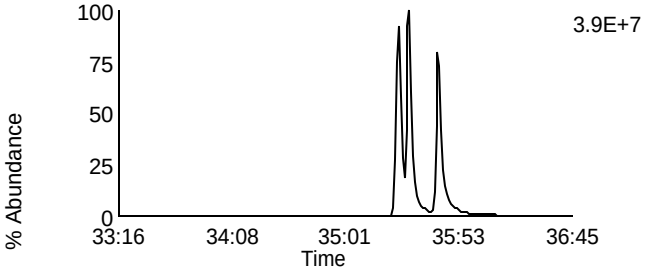
Data File: U140306A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - SMT



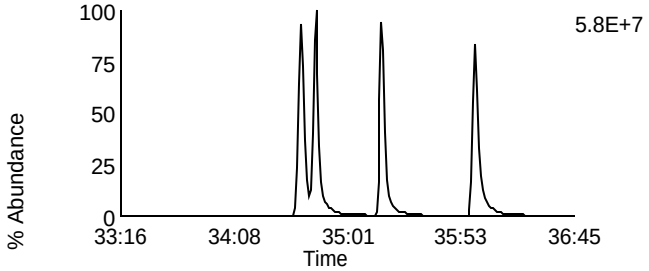
Data File: U140306A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - SMT



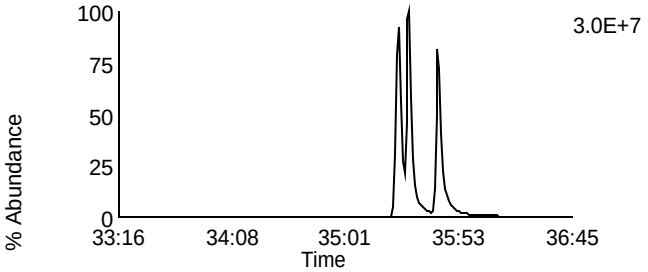
Data File: U140306A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - SMT



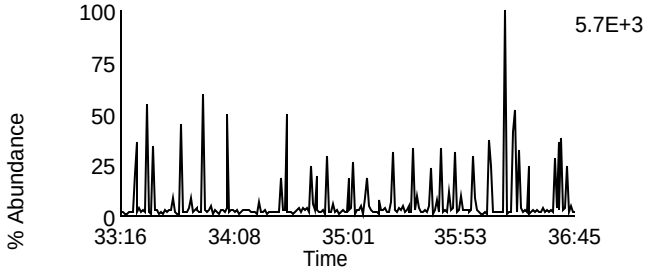
Data File: U140306A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - SMT



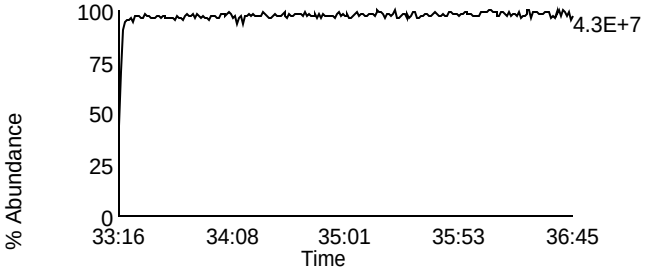
Data File: U140306A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - SMT

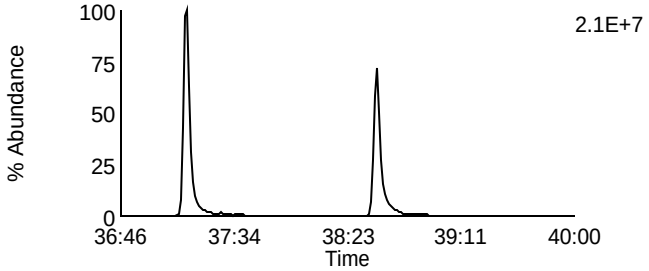


Homologue Group: Heptas

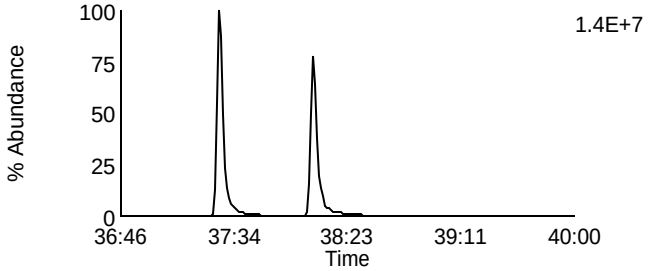
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

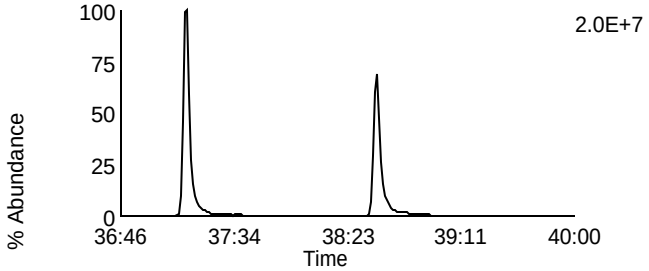
Data File: U140306A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - SMT



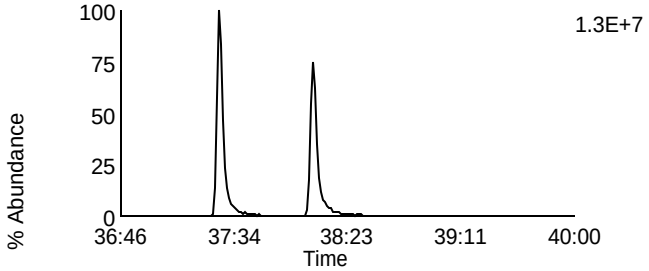
Data File: U140306A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - SMT



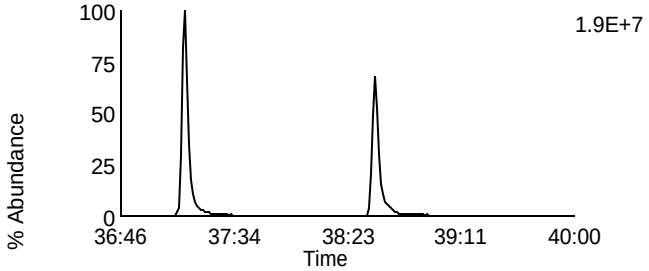
Data File: U140306A_03 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - SMT



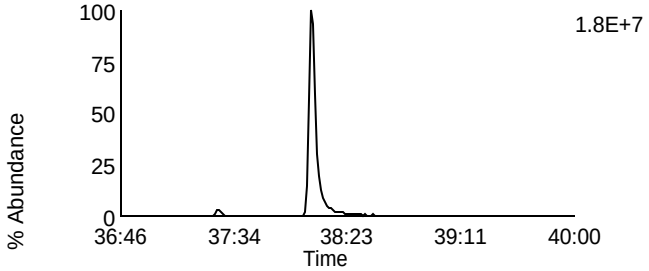
Data File: U140306A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - SMT



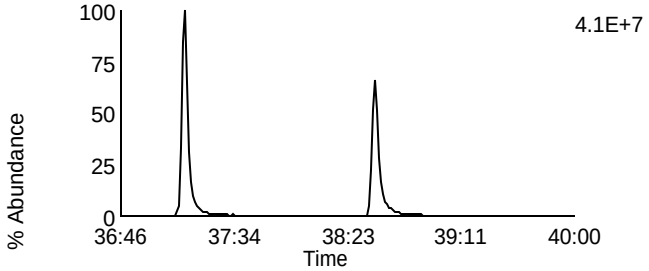
Data File: U140306A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - SMT



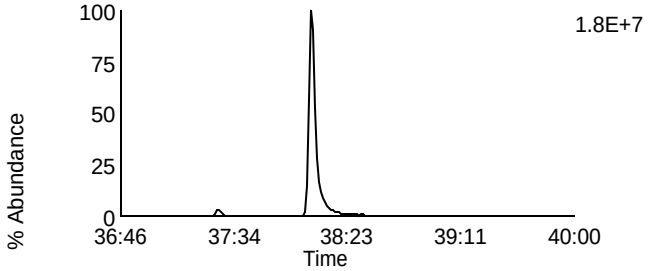
Data File: U140306A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - SMT



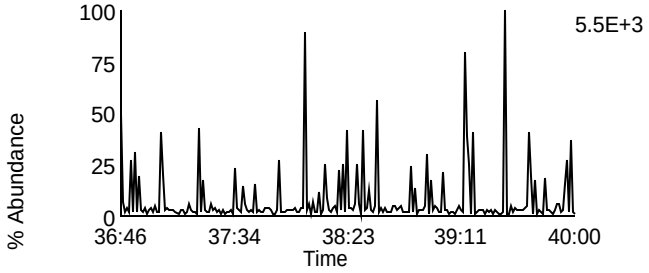
Data File: U140306A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - SMT



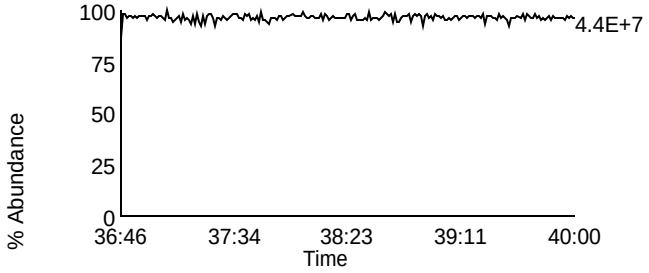
Data File: U140306A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - SMT

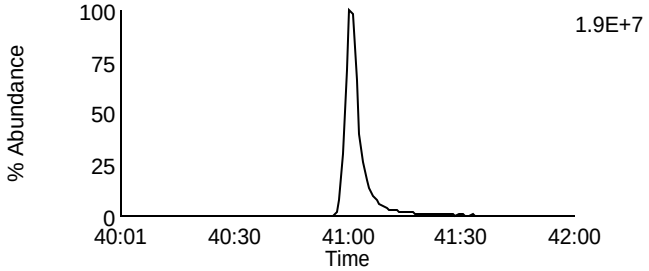


Homologue Group: Octas

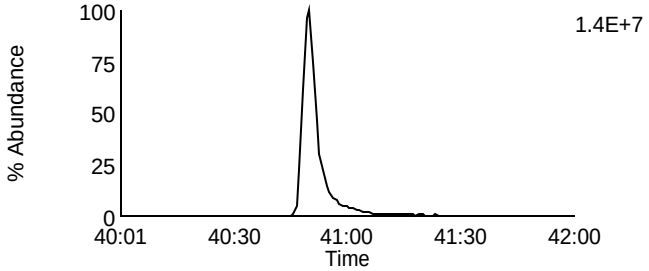
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

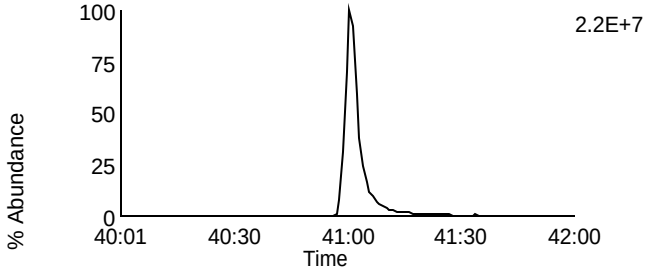
Data File: U140306A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - SMT



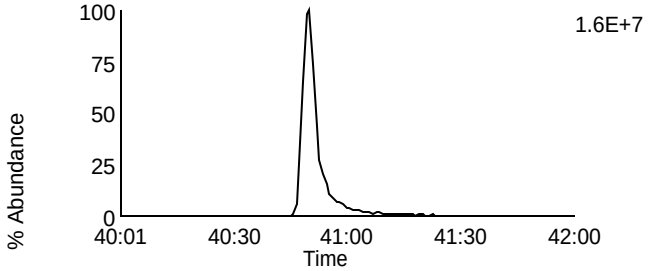
Data File: U140306A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - SMT



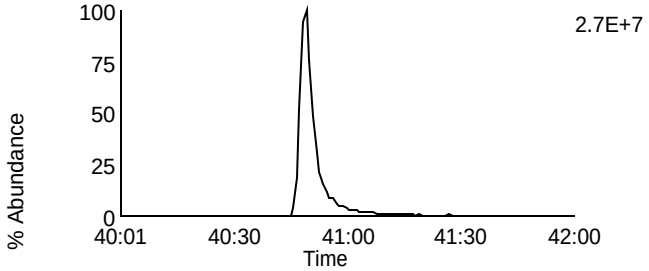
Data File: U140306A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - SMT



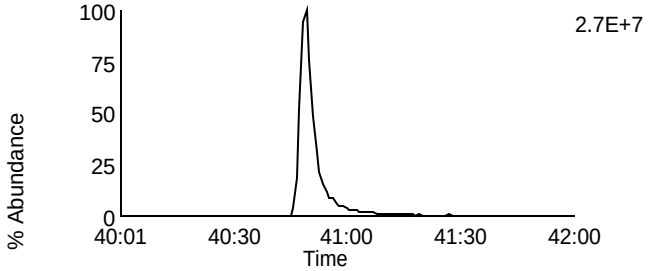
Data File: U140306A_03 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - SMT



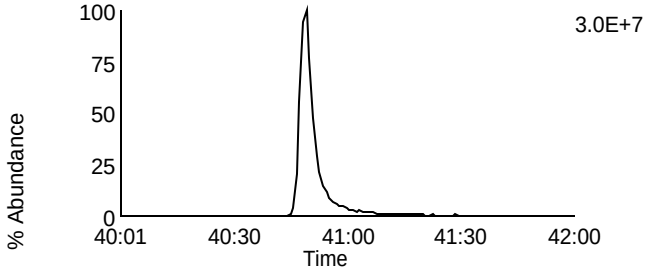
Data File: U140306A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



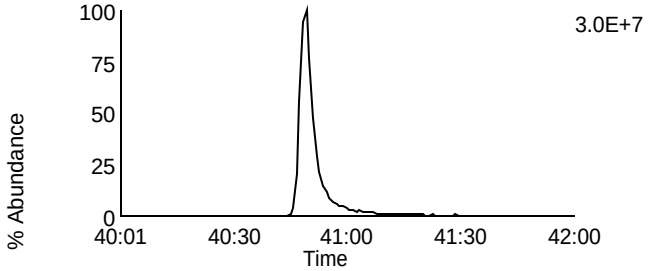
Data File: U140306A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



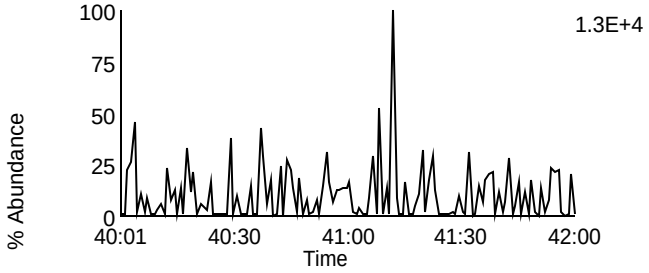
Data File: U140306A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



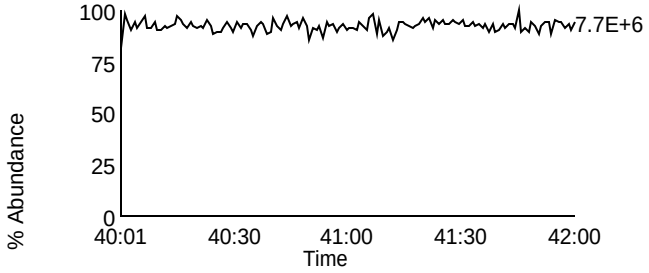
Data File: U140306A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - SMT

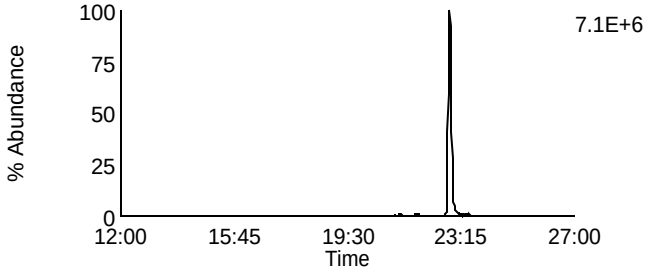


Homologue Group: Tetras

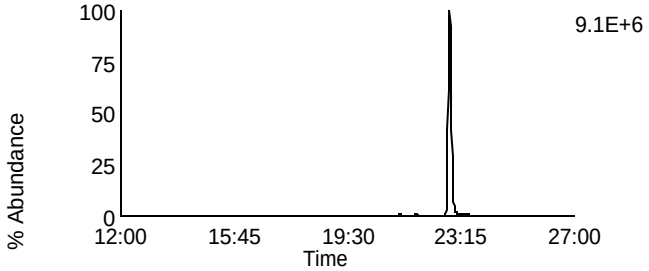
Data File Name: U140306A_07
Date Acquired: 3/6/2014
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

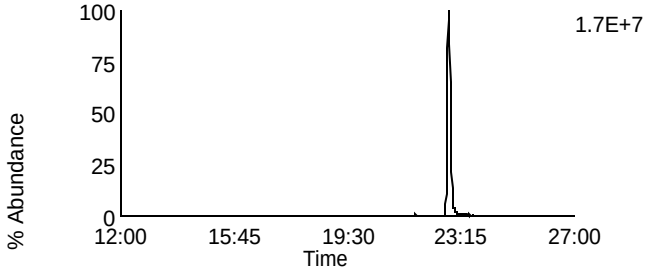
Data File: U140306A_07 G1 C1 - 303.9016
CAL CS4-7604-277 - SMT



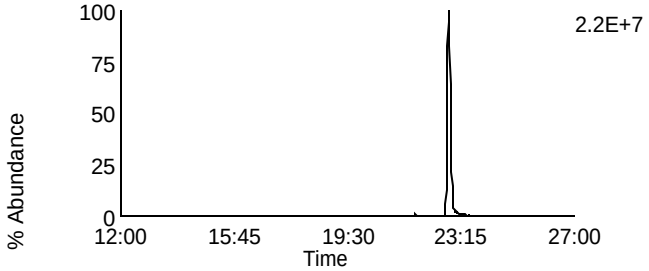
Data File: U140306A_07 G1 C2 - 305.8987
CAL CS4-7604-277 - SMT



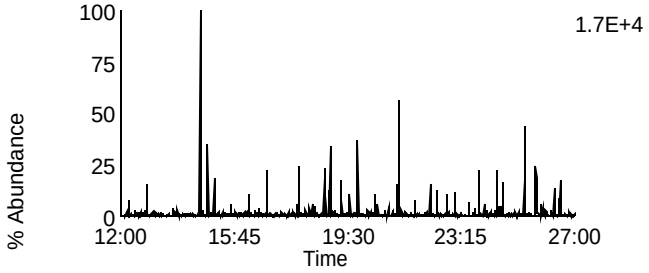
Data File: U140306A_07 G1 C3 - 315.9418
CAL CS4-7604-277 - SMT



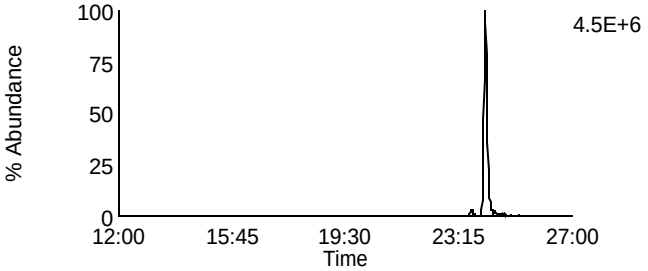
Data File: U140306A_07 G1 C4 - 317.9389
CAL CS4-7604-277 - SMT



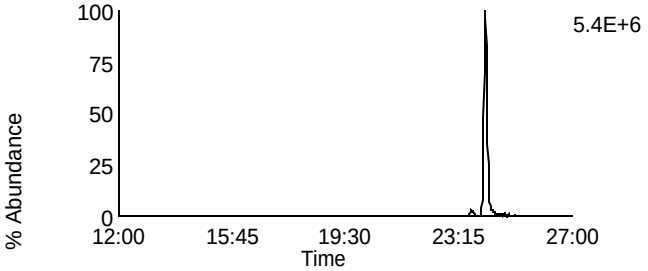
Data File: U140306A_07 G1 C14 - 375.8364
CAL CS4-7604-277 - SMT



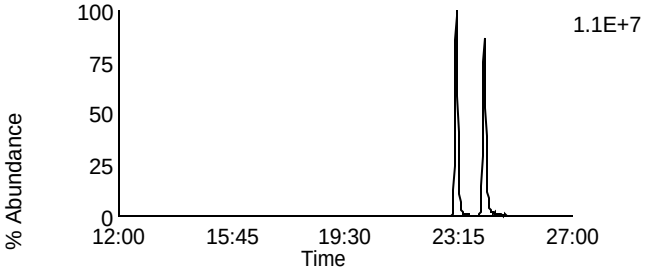
Data File: U140306A_07 G1 C7 - 319.8965
CAL CS4-7604-277 - SMT



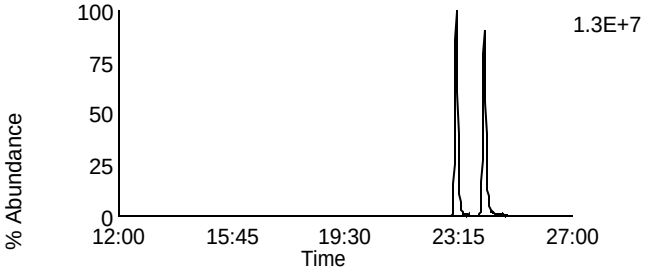
Data File: U140306A_07 G1 C8 - 321.8936
CAL CS4-7604-277 - SMT



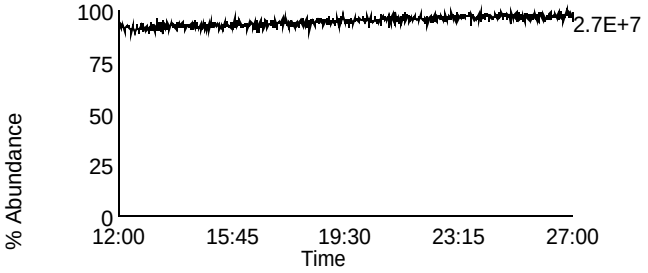
Data File: U140306A_07 G1 C10 - 331.9367
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G1 C11 - 333.9338
CAL CS4-7604-277 - SMT



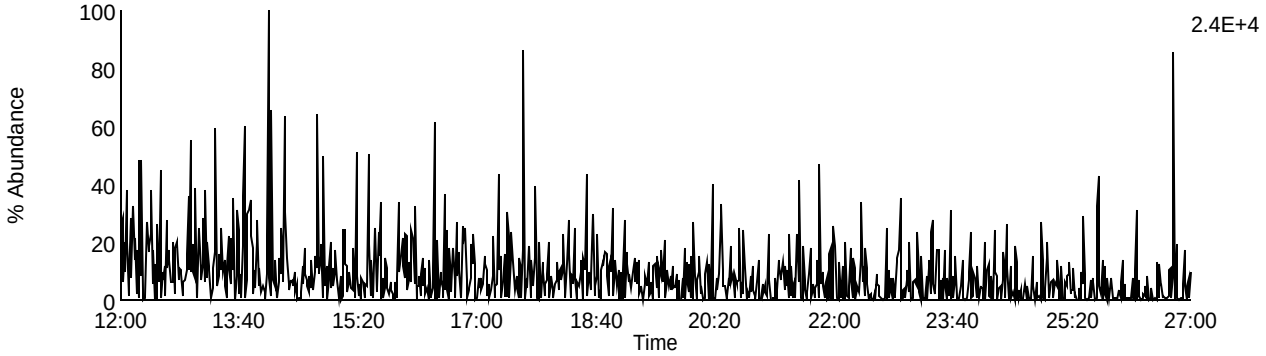
Data File: U140306A_07 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT



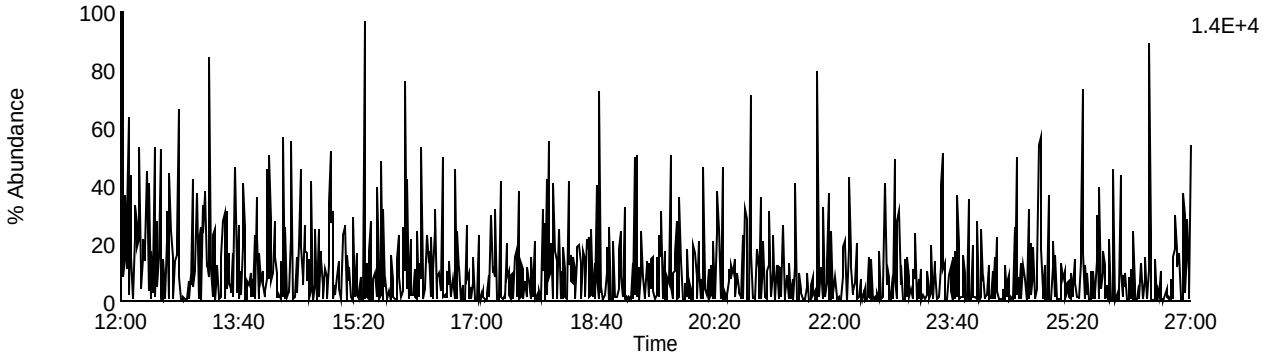
Homologue Group: Penta & Cleanup

Data File Name: U140306A_07	Lab Sample ID: CS4-7604-277
Date Acquired: 3/6/2014	Client Sample ID:
Sample Description: CAL CS4-7604-277 - SMT	Instrument: 10MSHR06 (U)

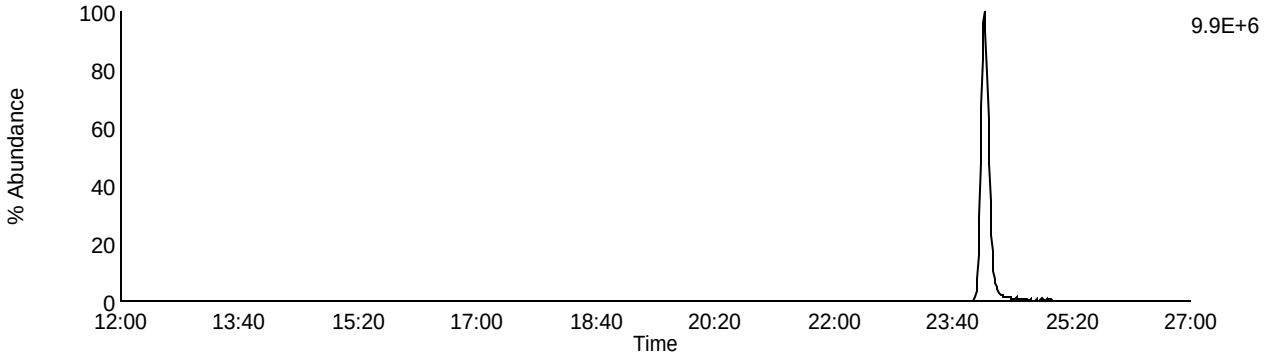
Data File: U140306A_07 G1 C12 - 339.8597
CAL CS4-7604-277 - SMT



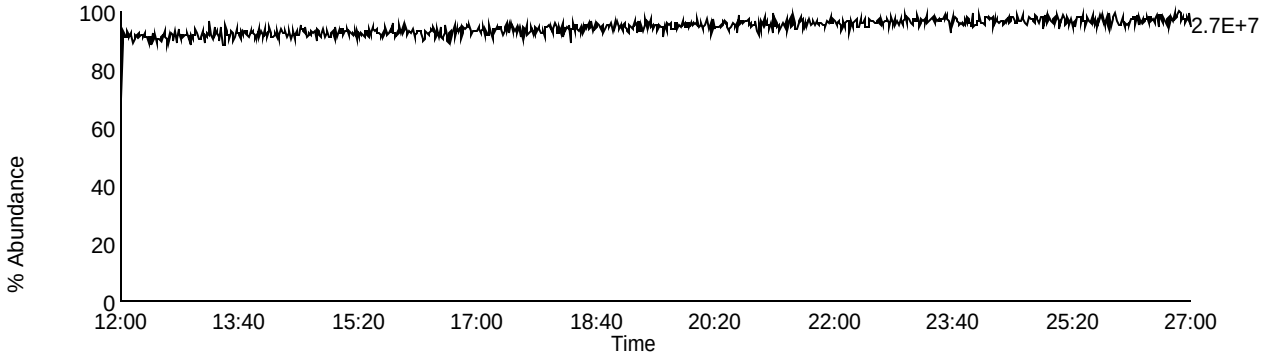
Data File: U140306A_07 G1 C13 - 341.8567
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G1 C9 - 327.8847
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT

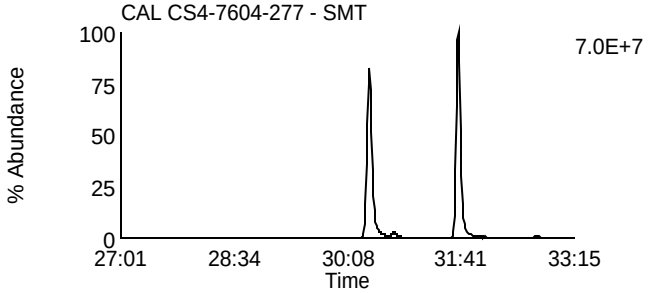


Homologue Group: Pentas

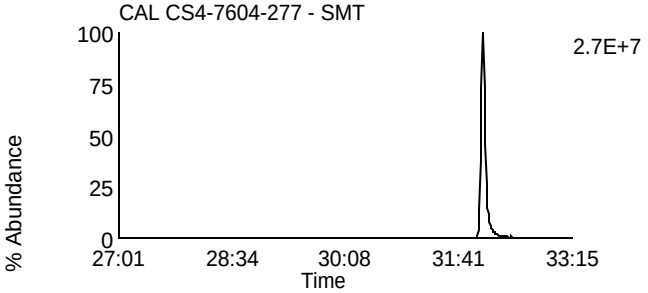
Data File Name: U140306A_07
Date Acquired: 3/6/2014
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

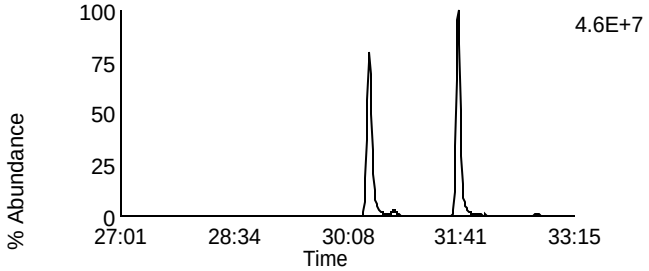
Data File: U140306A_07 G2 C1 - 339.8597
CAL CS4-7604-277 - SMT



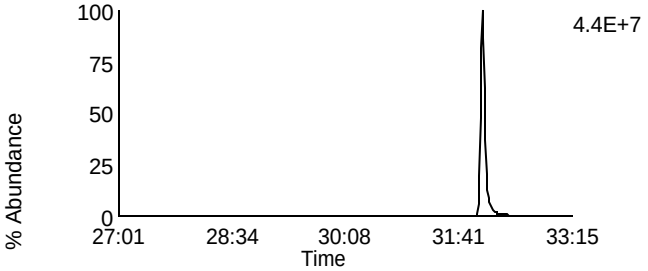
Data File: U140306A_07 G2 C4 - 353.8576
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G2 C2 - 341.8567
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G2 C8 - 355.8546
CAL CS4-7604-277 - SMT



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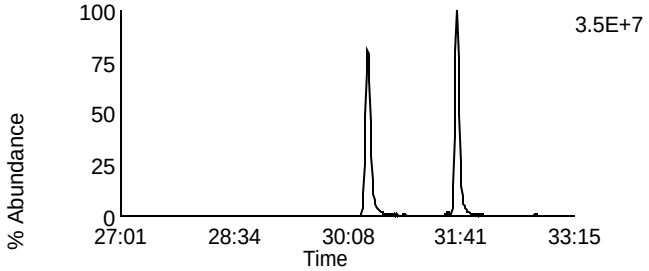
CAL CS4-7604-277 - SMT



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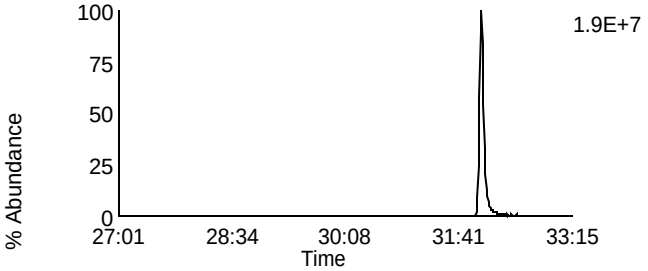
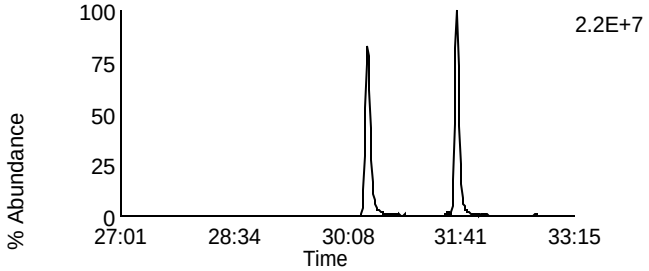
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G2 C5 - 353.8969
CAL CS4-7604-277 - SMT



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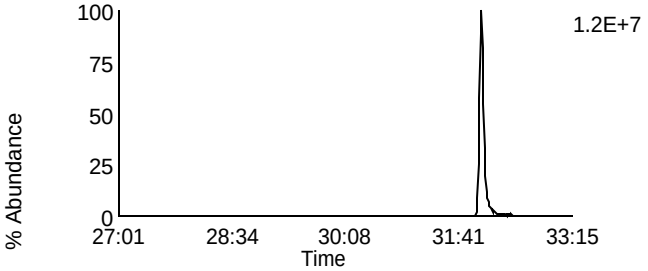
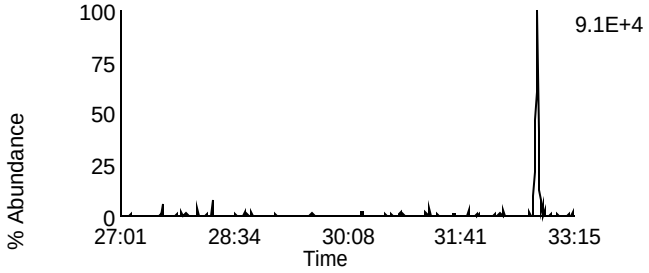
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G2 C12 - 409.7974
CAL CS4-7604-277 - SMT



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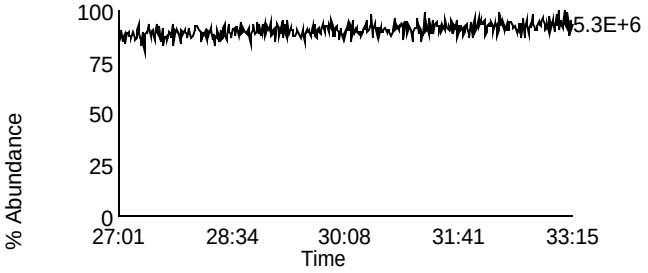
CAL CS4-7604-277 - SMT

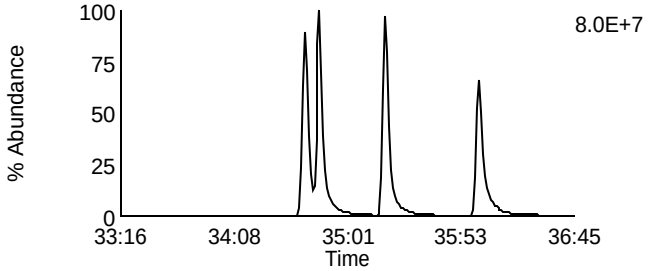


Homologue Group: Hexas

Data File Name: U140306A_07
Date Acquired: 3/6/2014
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_07 G3 C1 - 373.8207
CAL CS4-7604-277 - SMT



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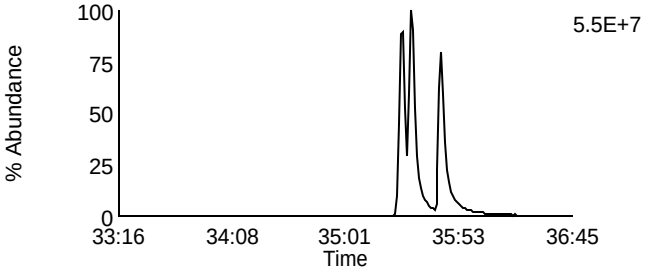
CAL CS4-7604-277 - SMT



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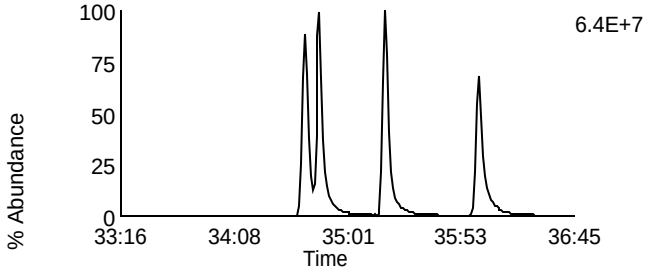
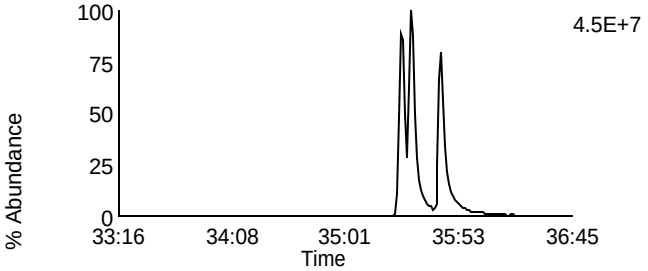
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G3 C8 - 391.8127
CAL CS4-7604-277 - SMT



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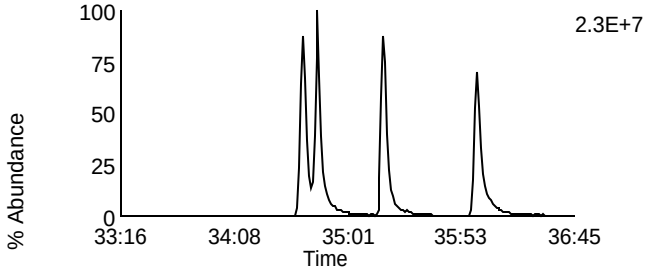
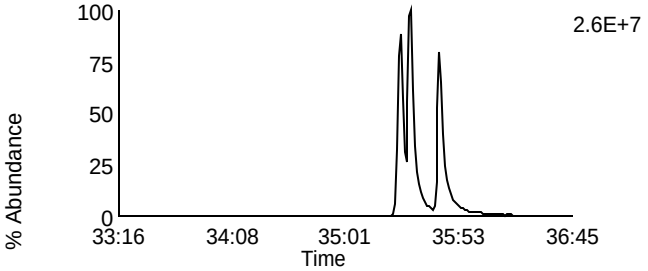
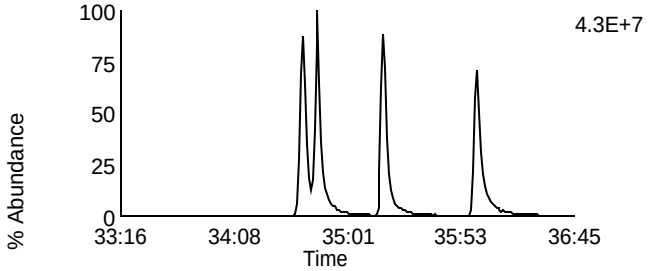
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G3 C9 - 401.8559
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G3 C6 - 385.861
CAL CS4-7604-277 - SMT



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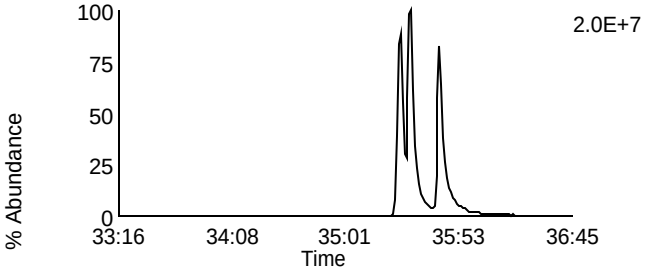
CAL CS4-7604-277 - SMT



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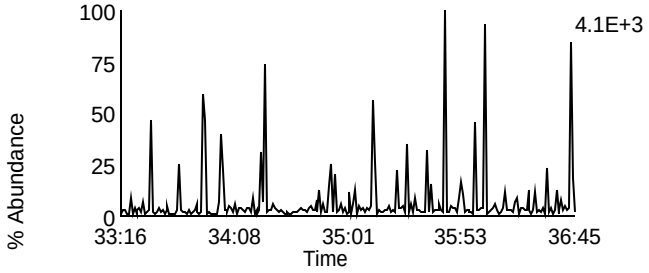
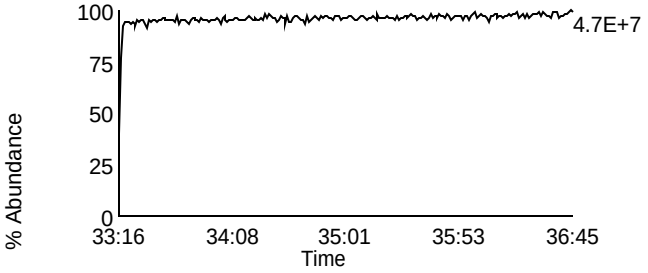
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G3 C3 - 380.976
CAL CS4-7604-277 - SMT

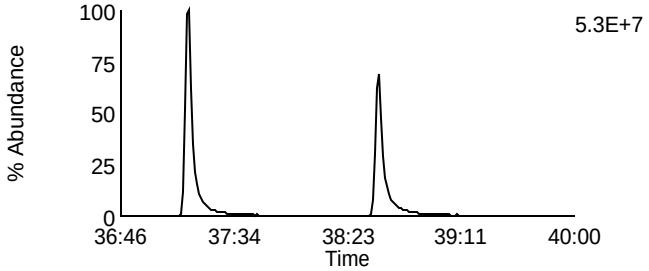


Homologue Group: Heptas

Data File Name: U140306A_07
Date Acquired: 3/6/2014
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_07 G4 C3 - 407.7818
CAL CS4-7604-277 - SMT



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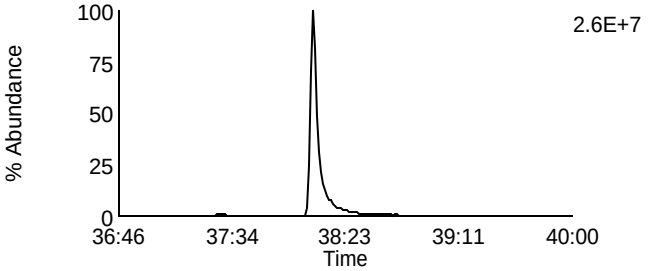
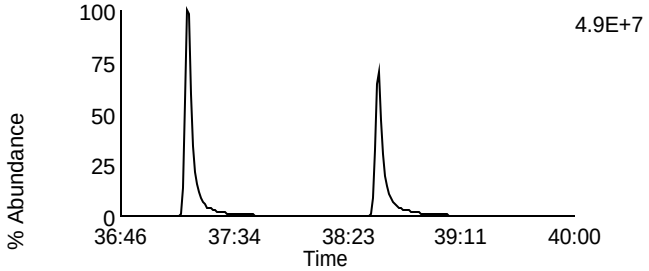
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G4 C4 - 409.7788
CAL CS4-7604-277 - SMT



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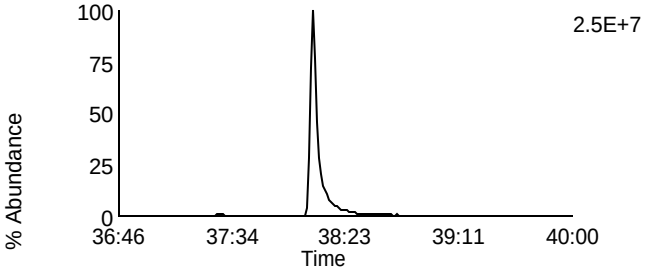
CAL CS4-7604-277 - SMT



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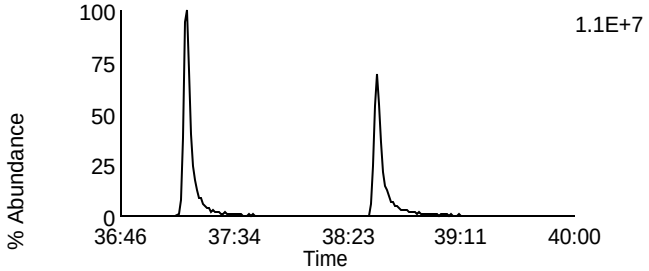
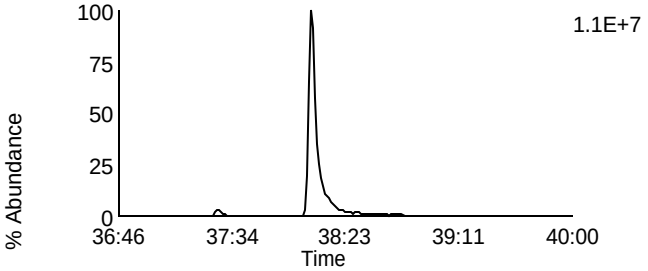
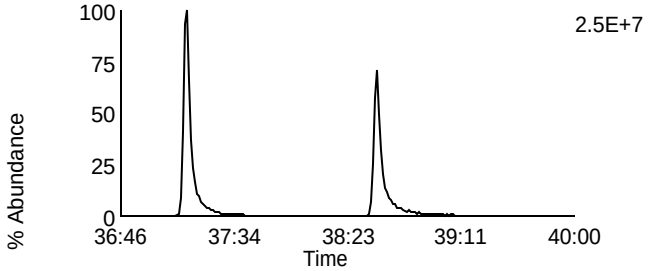
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G4 C11 - 435.8169
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G4 C7 - 419.822
CAL CS4-7604-277 - SMT



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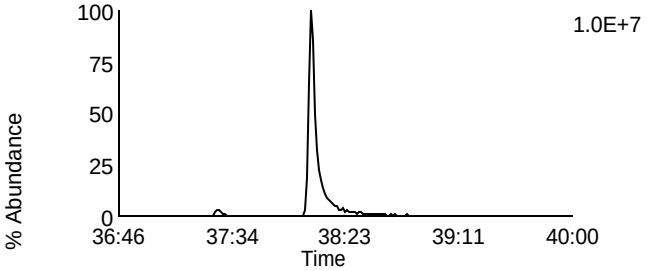
CAL CS4-7604-277 - SMT



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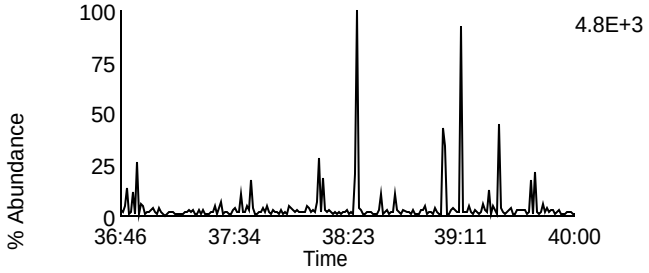
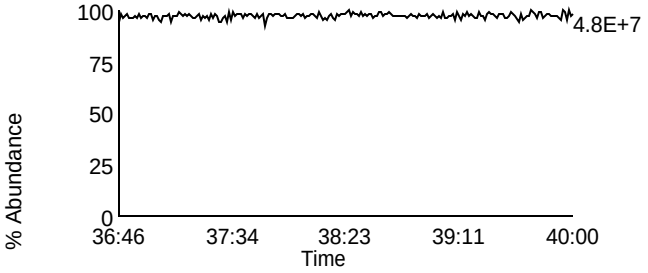
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G4 C1 - 380.976
CAL CS4-7604-277 - SMT

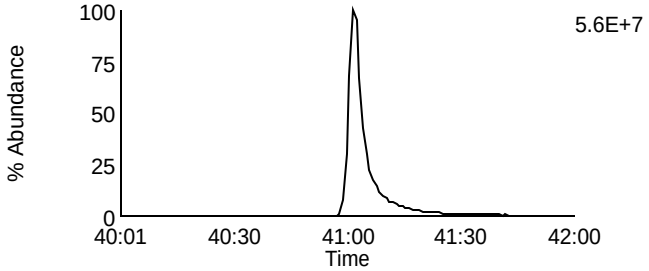


Homologue Group: Octas

Data File Name: U140306A_07
Date Acquired: 3/6/2014
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_07 G5 C4 - 441.7428
CAL CS4-7604-277 - SMT



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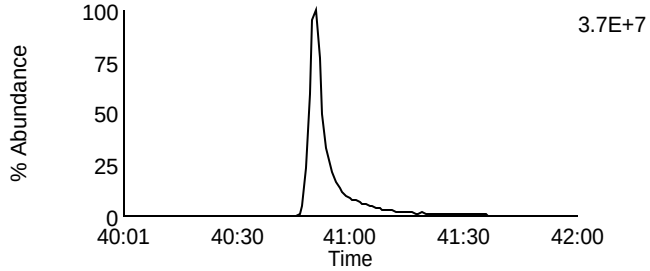
CAL CS4-7604-277 - SMT



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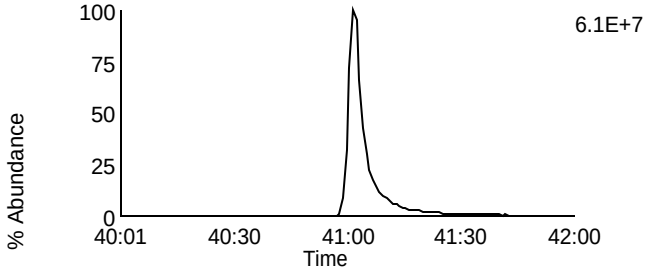
CAL CS4-7604-277 - SMT



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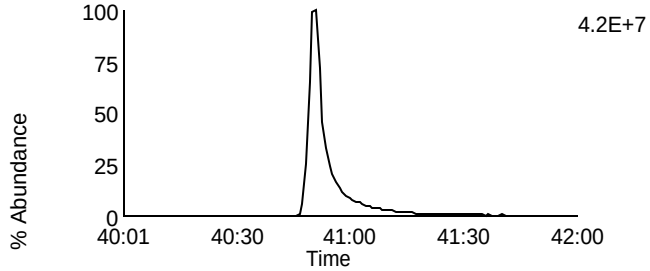
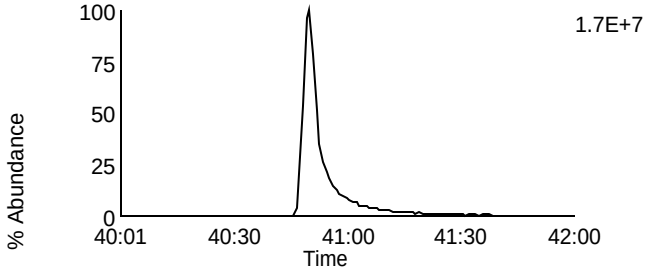
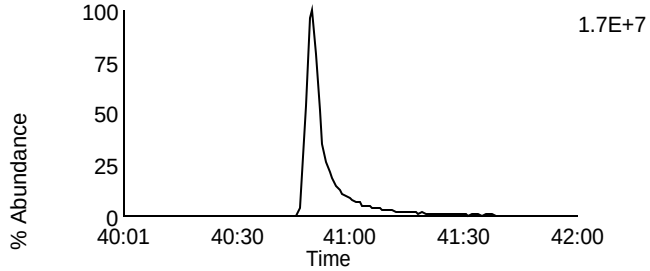
CAL CS4-7604-277 - SMT



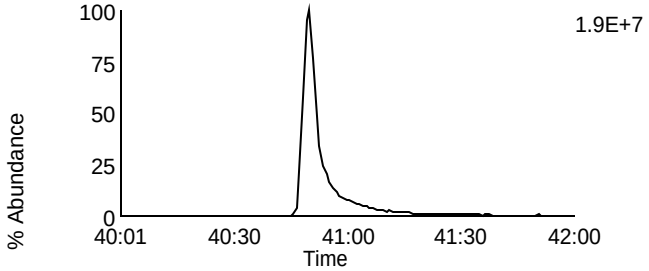
Data File: U140306A_07 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



Data File: U140306A_07 G5 C12 - 471.7749
CAL CS4-7604-277 - SMT



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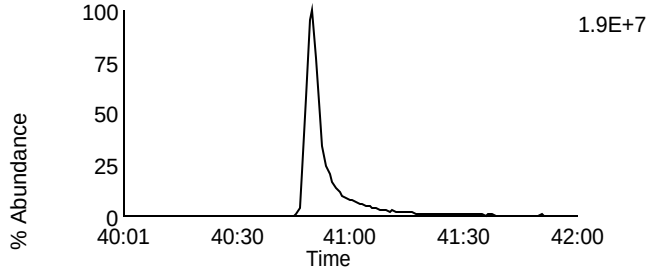
CAL CS4-7604-277 - SMT



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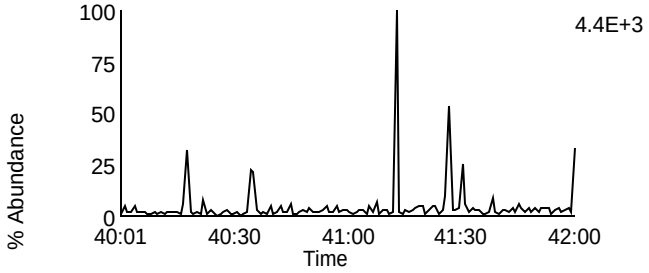
CAL CS4-7604-277 - SMT



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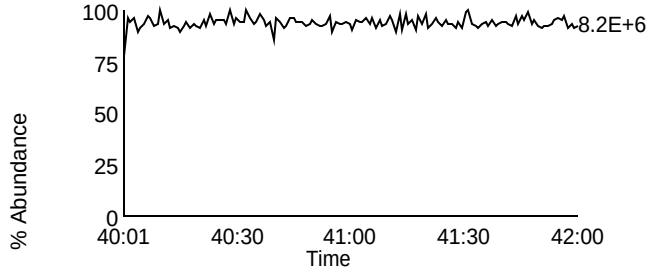
CAL CS4-7604-277 - SMT

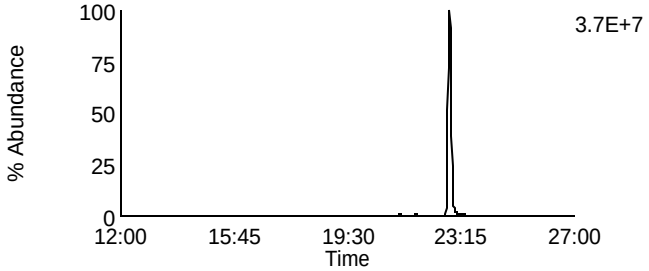


Homologue Group: Tetras

Data File Name: U140306A_06
Date Acquired: 3/6/2014
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_06 G1 C1 - 303.9016
CAL CS5-7604-278 - SMT



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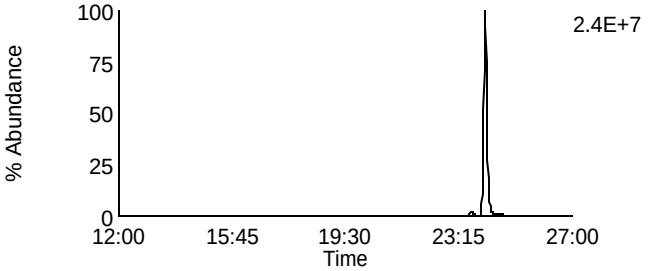
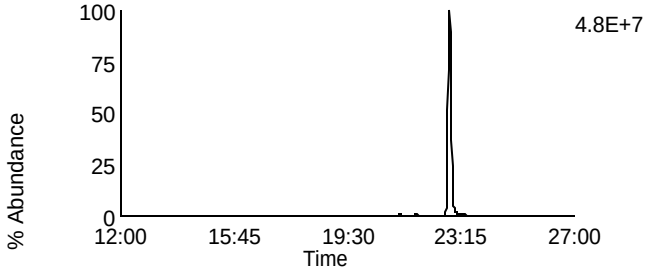
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G1 C2 - 305.8987
CAL CS5-7604-278 - SMT



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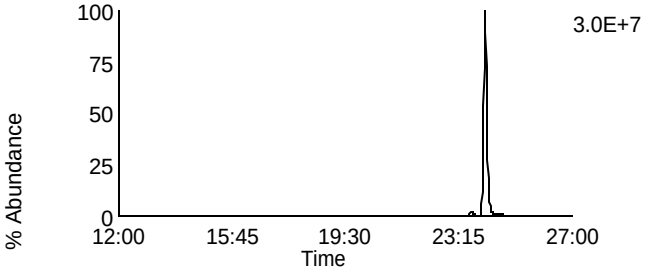
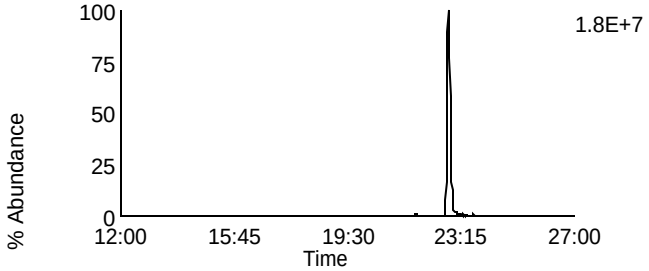
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G1 C3 - 315.9418
CAL CS5-7604-278 - SMT



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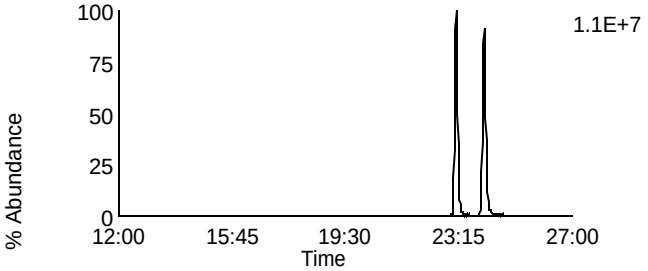
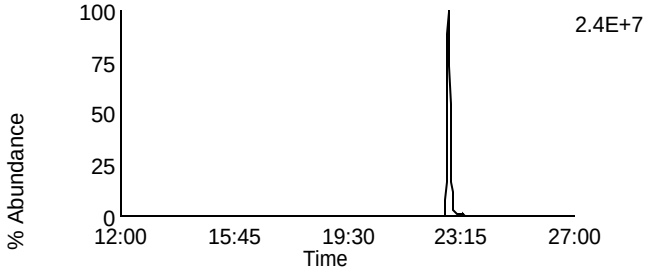
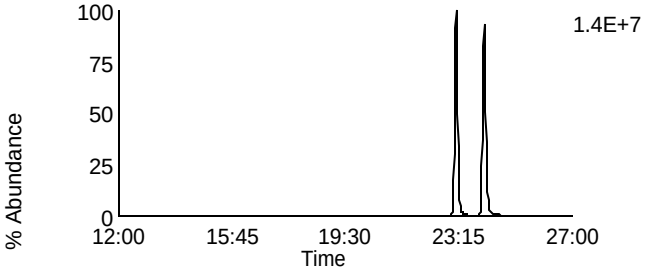
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G1 C4 - 317.9389
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G1 C11 - 333.9338
CAL CS5-7604-278 - SMT



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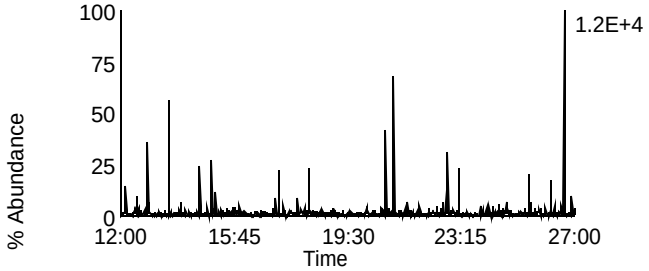
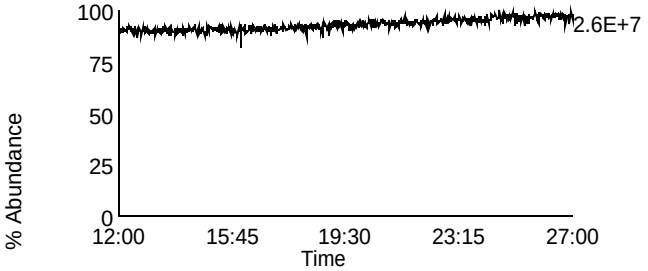
CAL CS5-7604-278 - SMT



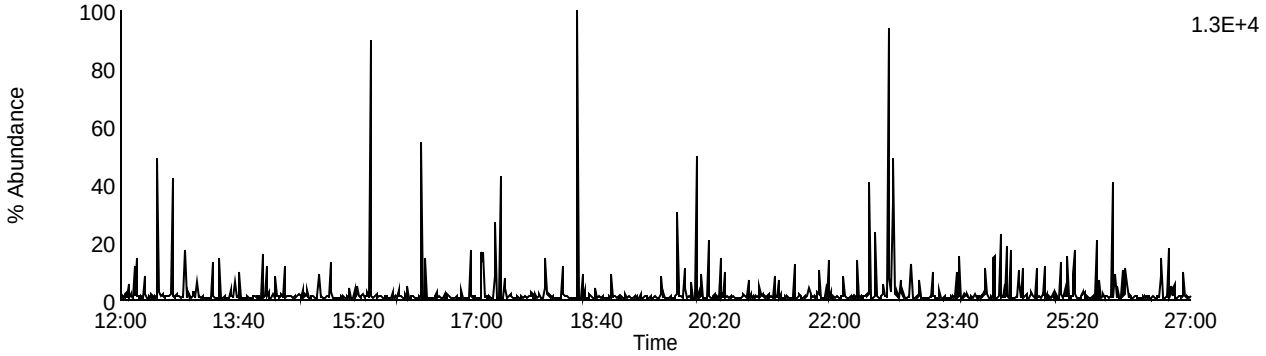
Data File: U140306A_06 G1 C5 - 318.9792
CAL CS5-7604-278 - SMT



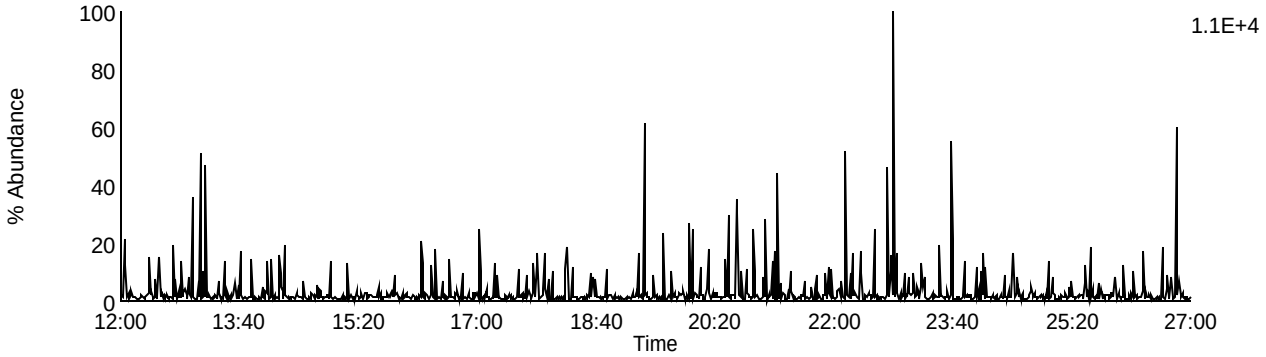
Homologue Group: Penta & Cleanup

Data File Name: U140306A_06	Lab Sample ID: CS5-7604-278
Date Acquired: 3/6/2014	Client Sample ID:
Sample Description: CAL CS5-7604-278 - SMT	Instrument: 10MSHR06 (U)

Data File: U140306A_06 G1 C12 - 339.8597
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G1 C13 - 341.8567
CAL CS5-7604-278 - SMT



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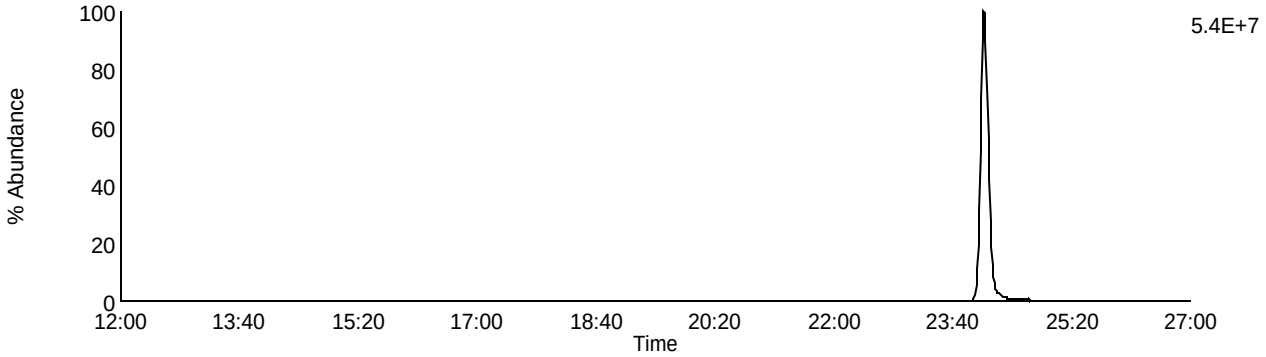
CAL CS5-7604-278 - SMT



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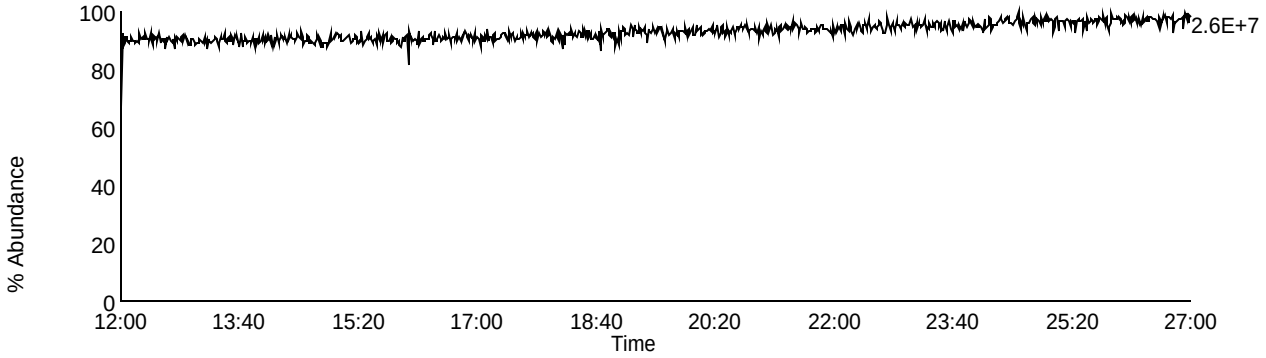
CAL CS5-7604-278 - SMT

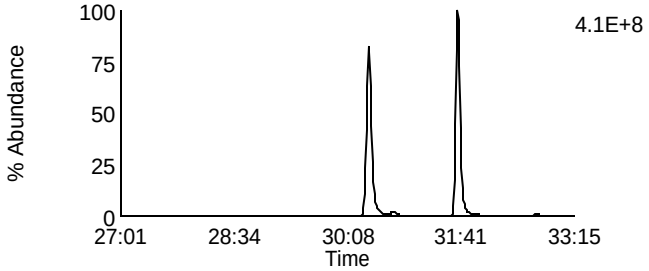


Homologue Group: Pentas

Data File Name: U140306A_06
Date Acquired: 3/6/2014
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_06 G2 C1 - 339.8597
CAL CS5-7604-278 - SMT



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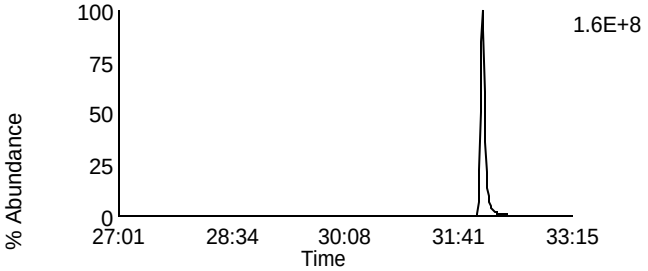
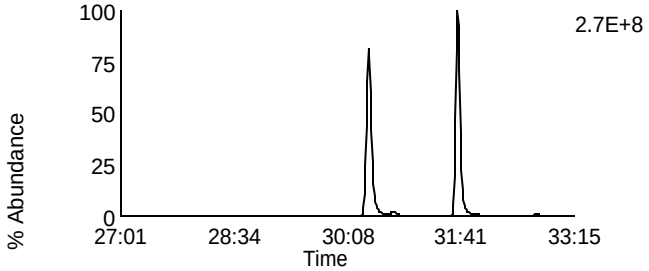
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G2 C2 - 341.8567
CAL CS5-7604-278 - SMT



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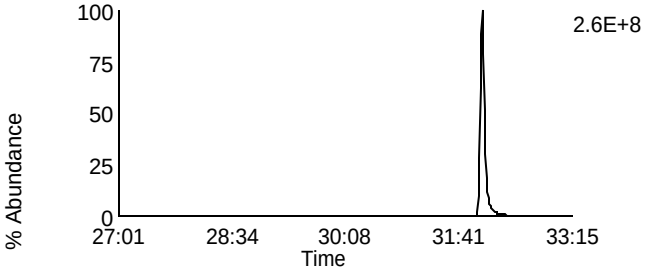
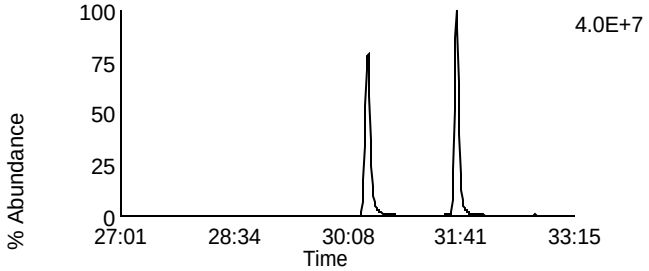
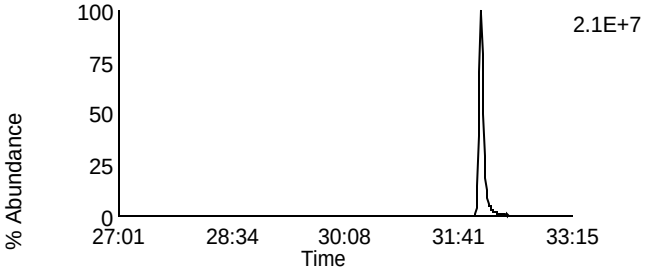
CAL CS5-7604-278 - SMT



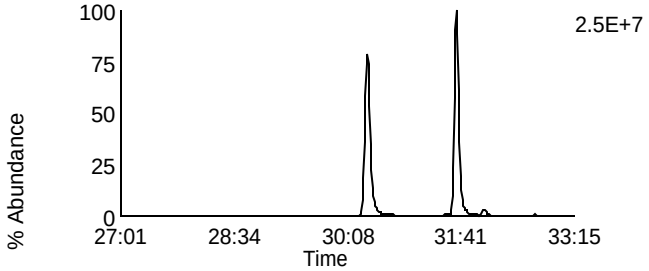
Data File: U140306A_06 G2 C3 - 351.8999
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G2 C10 - 367.8948
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G2 C5 - 353.8969
CAL CS5-7604-278 - SMT



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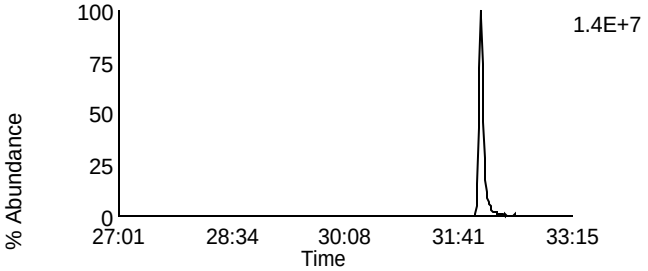
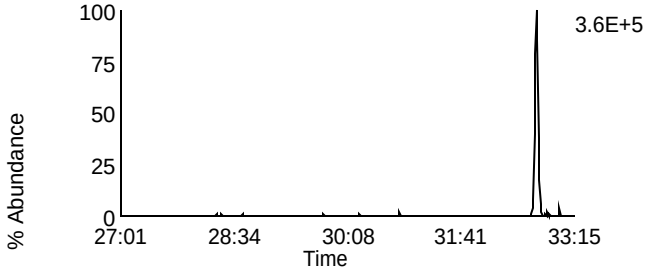
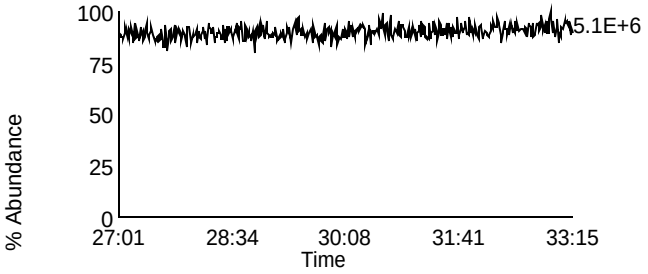
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G2 C12 - 409.7974
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G2 C6 - 354.9792
CAL CS5-7604-278 - SMT

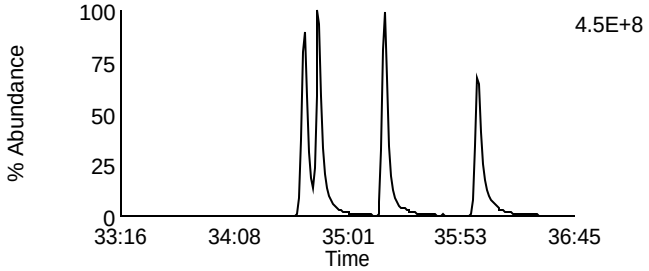


Homologue Group: Hexas

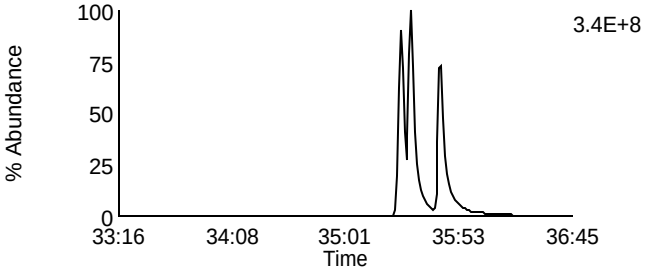
Data File Name: U140306A_06
Date Acquired: 3/6/2014
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_06 G3 C1 - 373.8207
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C7 - 389.8156
CAL CS5-7604-278 - SMT



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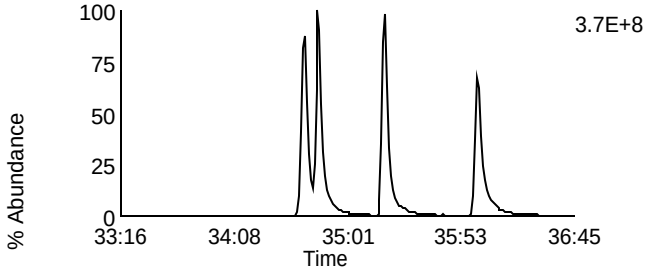
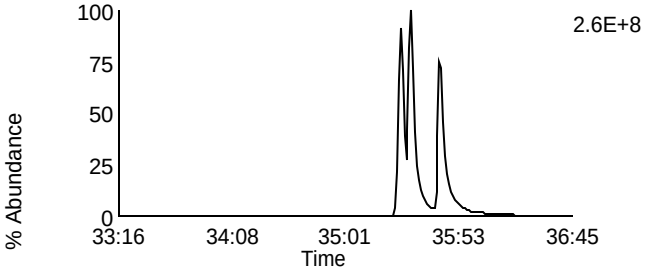
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C8 - 391.8127
CAL CS5-7604-278 - SMT



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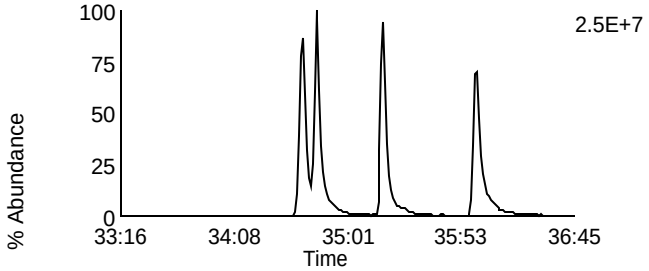
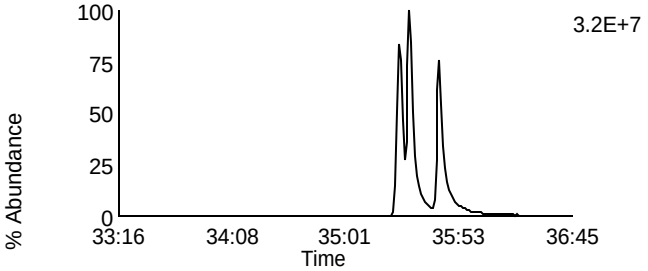
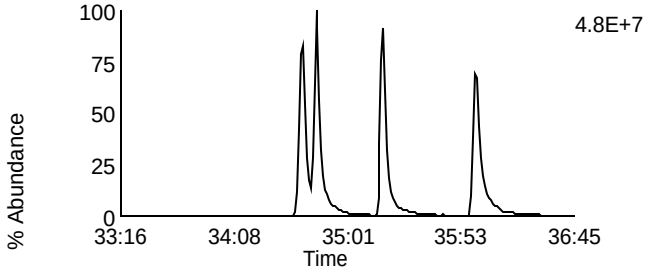
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C9 - 401.8559
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C6 - 385.861
CAL CS5-7604-278 - SMT



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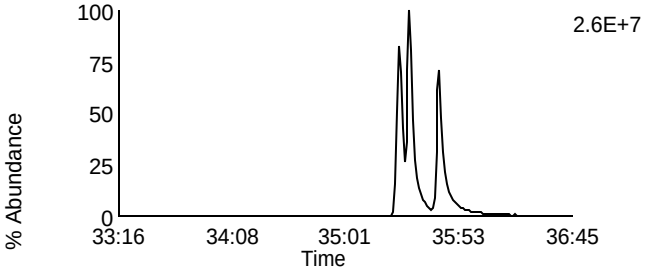
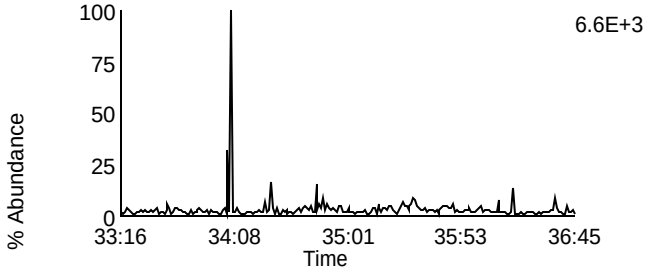
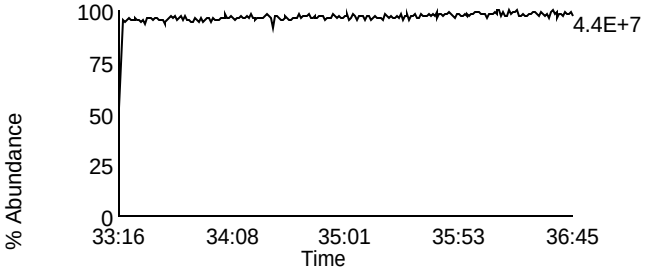
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C11 - 445.7555
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G3 C3 - 380.976
CAL CS5-7604-278 - SMT

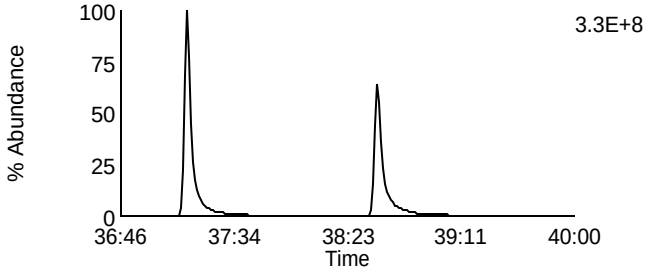


Homologue Group: Heptas

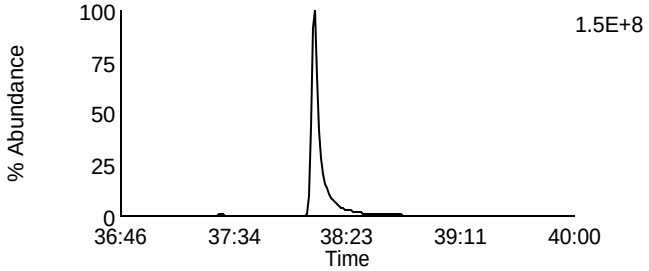
Data File Name: U140306A_06
Date Acquired: 3/6/2014
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

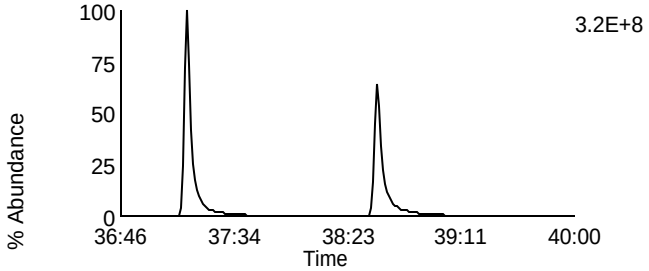
Data File: U140306A_06 G4 C3 - 407.7818
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G4 C8 - 423.7767
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G4 C4 - 409.7788
CAL CS5-7604-278 - SMT



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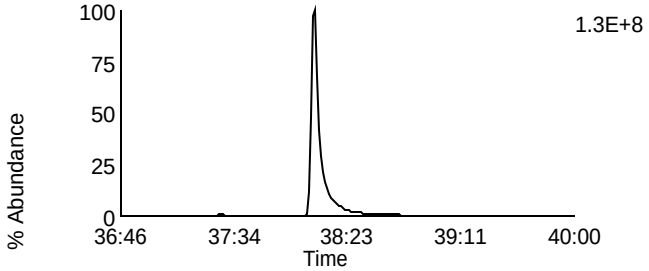
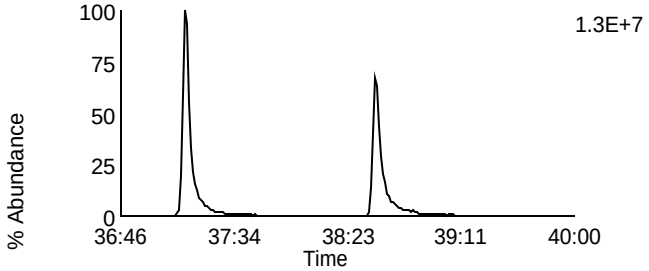
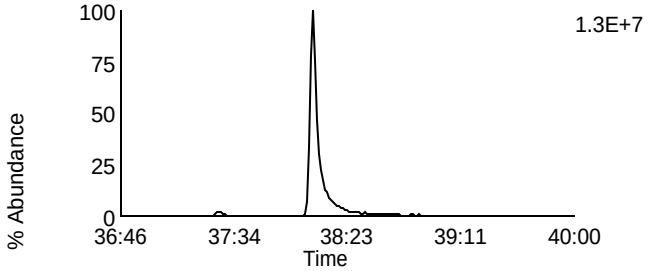
CAL CS5-7604-278 - SMT



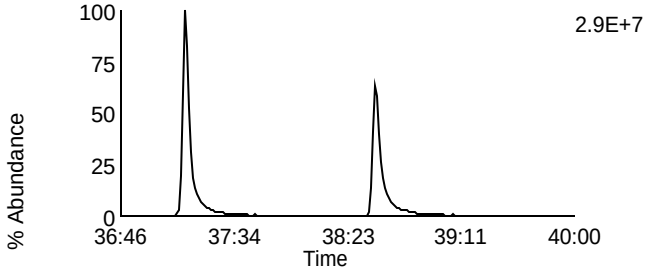
Data File: U140306A_06 G4 C6 - 417.825
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G4 C11 - 435.8169
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G4 C7 - 419.822
CAL CS5-7604-278 - SMT



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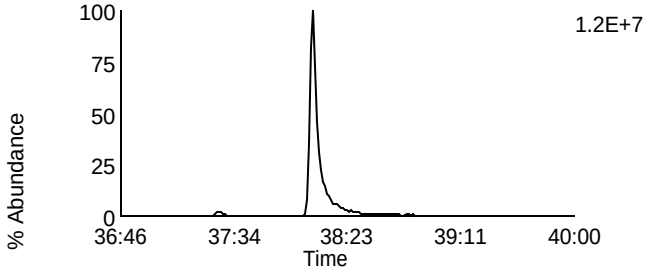
CAL CS5-7604-278 - SMT



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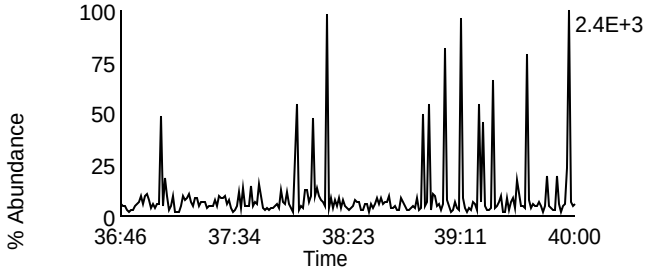
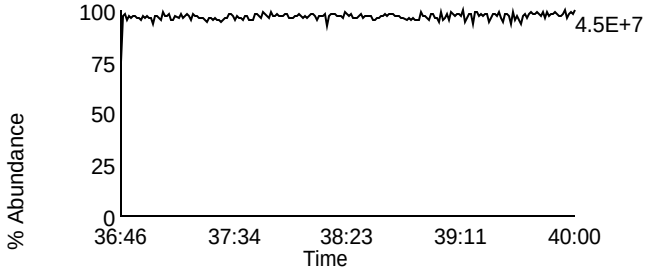
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G4 C1 - 380.976
CAL CS5-7604-278 - SMT

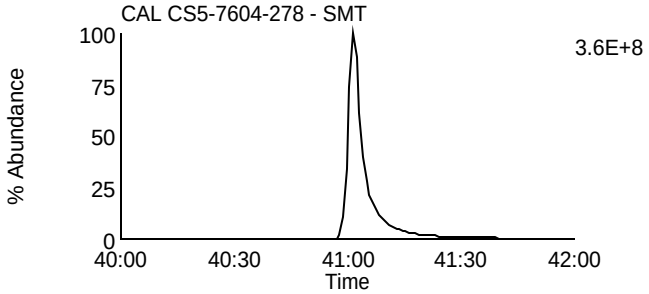


Homologue Group: Octas

Data File Name: U140306A_06
Date Acquired: 3/6/2014
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140306A_06 G5 C4 - 441.7428
CAL CS5-7604-278 - SMT



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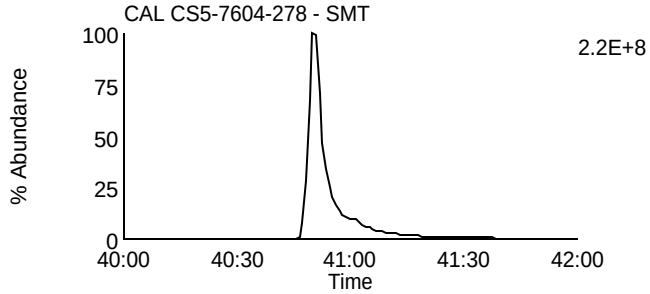
CAL CS5-7604-278 - SMT



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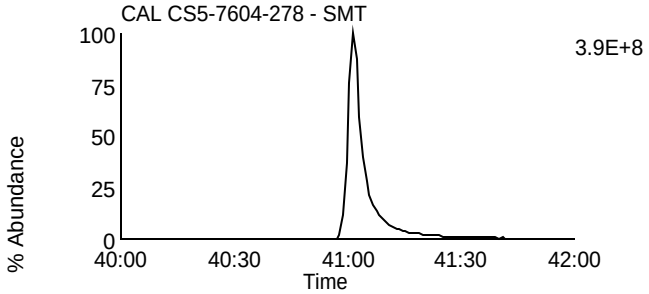
CAL CS5-7604-278 - SMT



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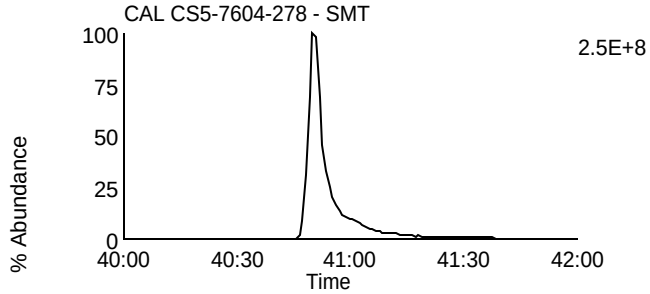
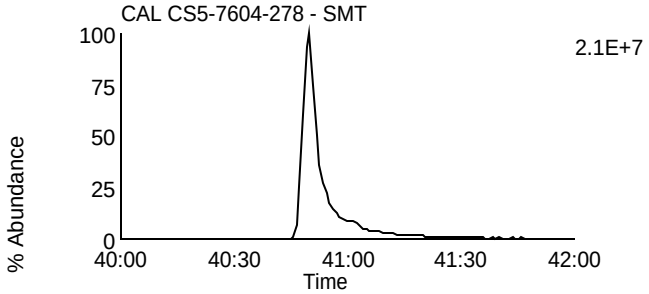
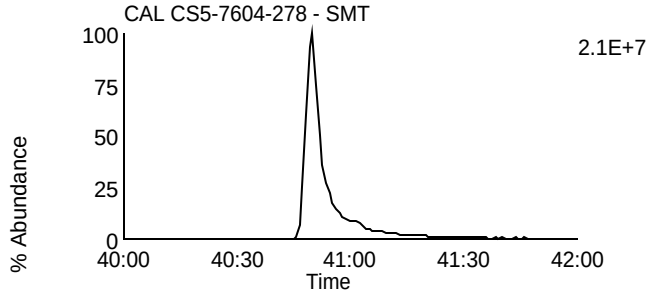
CAL CS5-7604-278 - SMT



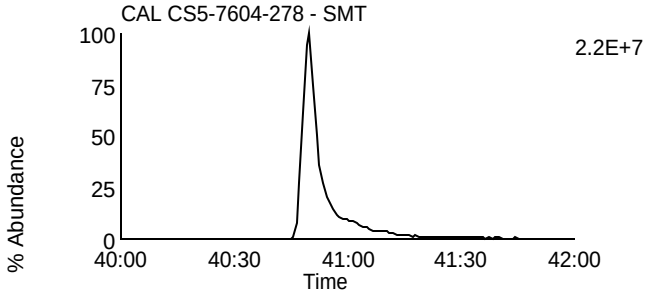
Data File: U140306A_06 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



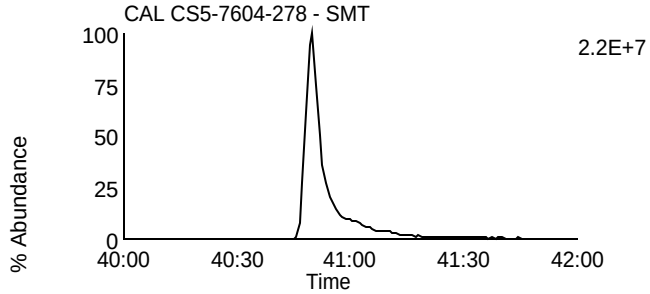
Data File: U140306A_06 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



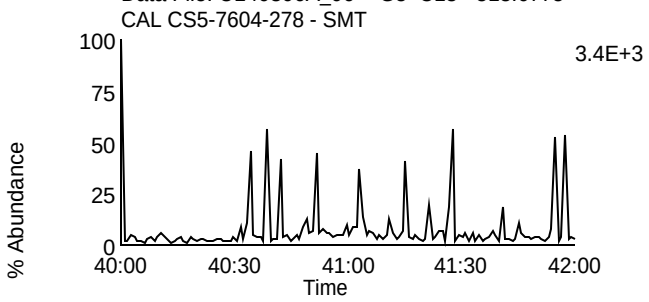
Data File: U140306A_06 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



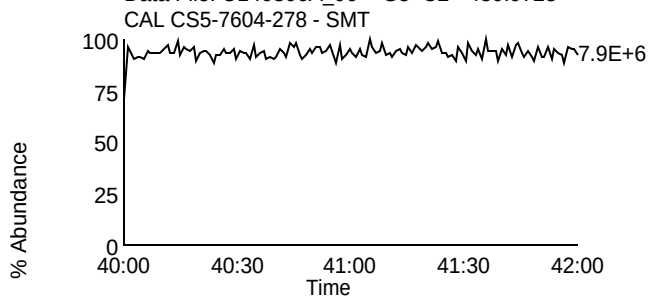
Data File: U140306A_06 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G5 C13 - 513.6775
CAL CS5-7604-278 - SMT



Data File: U140306A_06 G5 C2 - 430.9728
CAL CS5-7604-278 - SMT

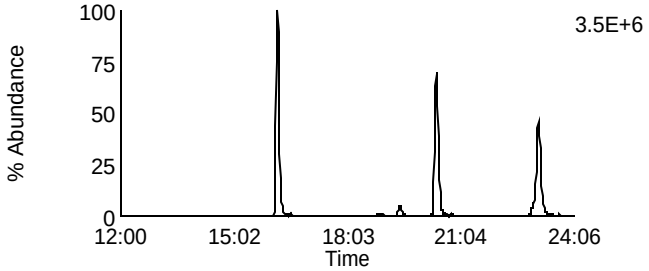


Homologue Group: Tetras

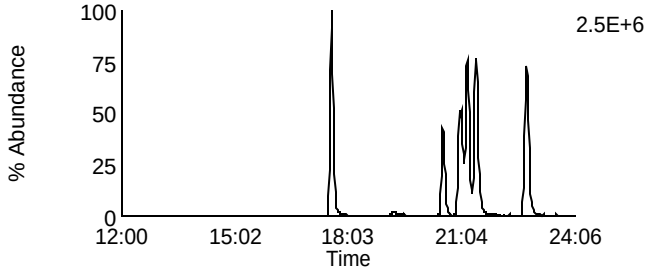
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

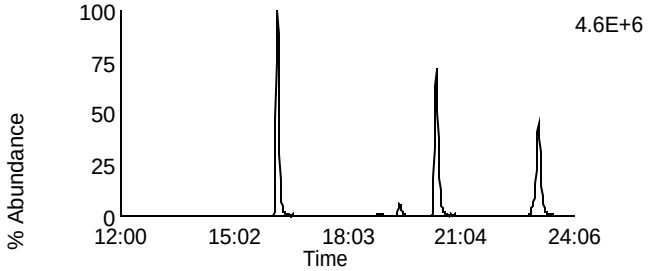
Data File: F140227B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - SMT AS Ca



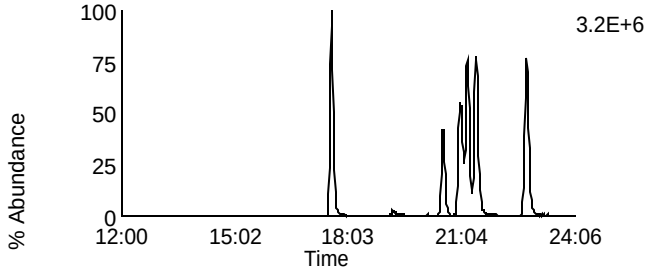
Data File: F140227B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - SMT AS Ca



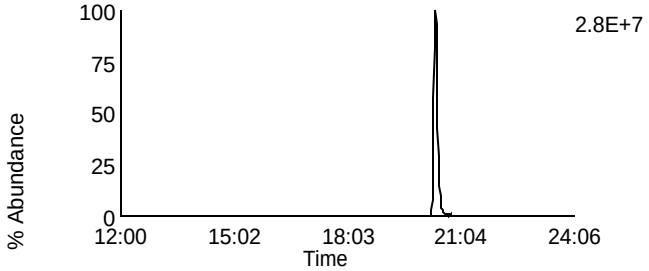
Data File: F140227B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - SMT AS Ca



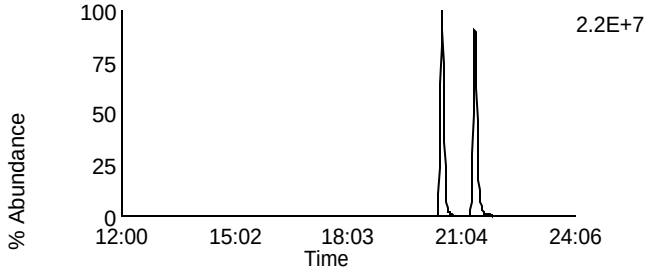
Data File: F140227B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - SMT AS Ca



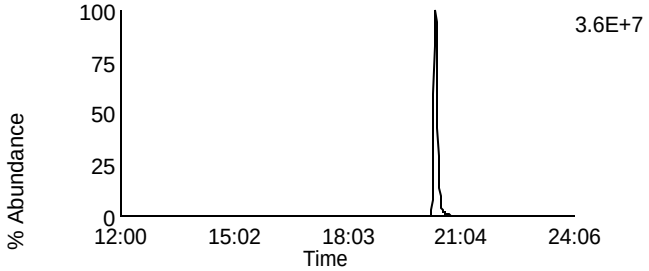
Data File: F140227B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - SMT AS Ca



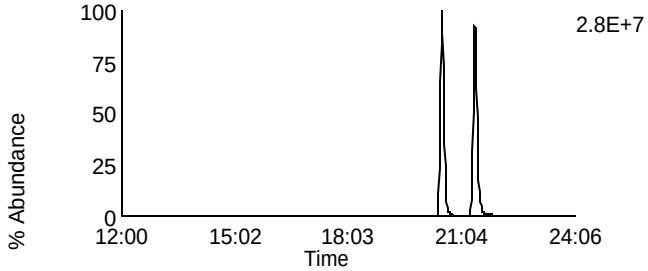
Data File: F140227B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - SMT AS Ca



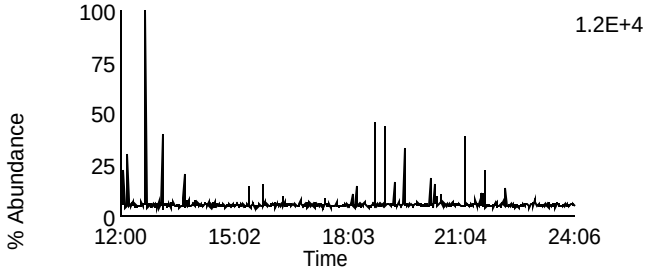
Data File: F140227B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - SMT AS Ca



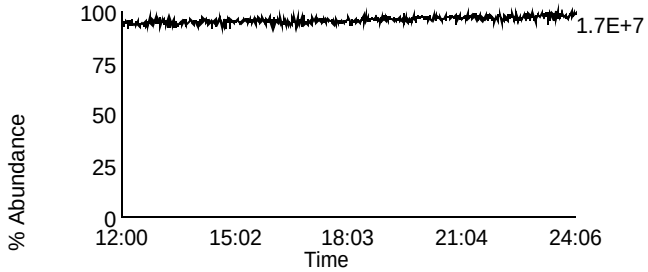
Data File: F140227B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

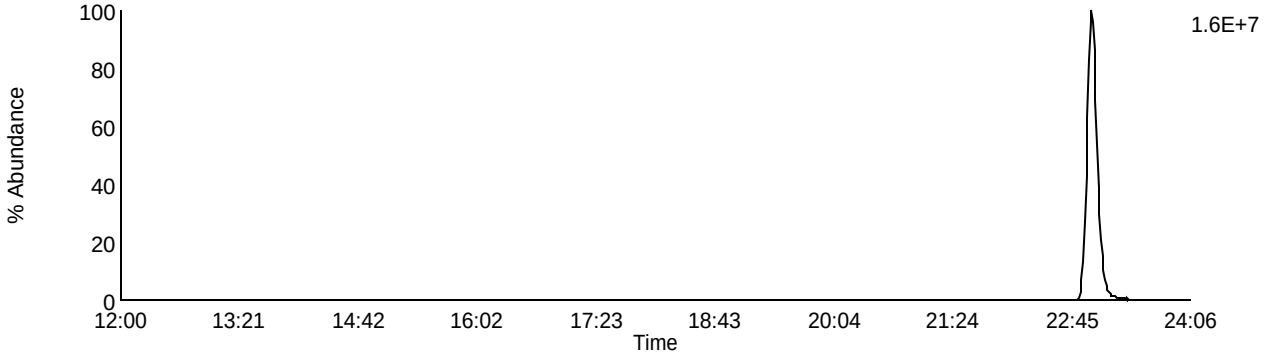


Homologue Group: Penta & Cleanup

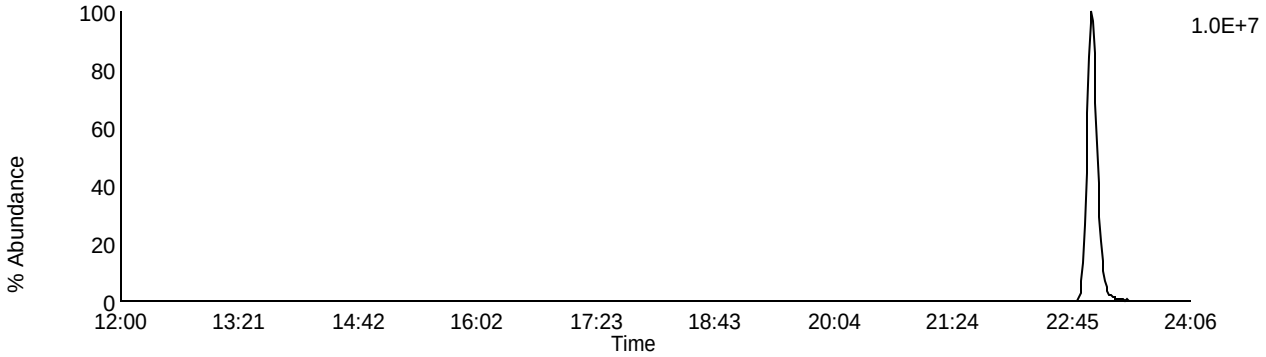
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

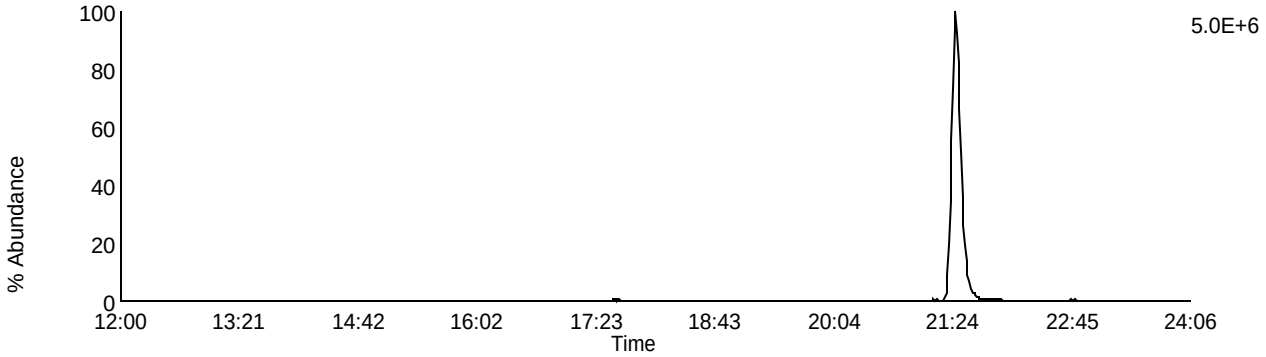
Data File: F140227B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - SMT AS Ca



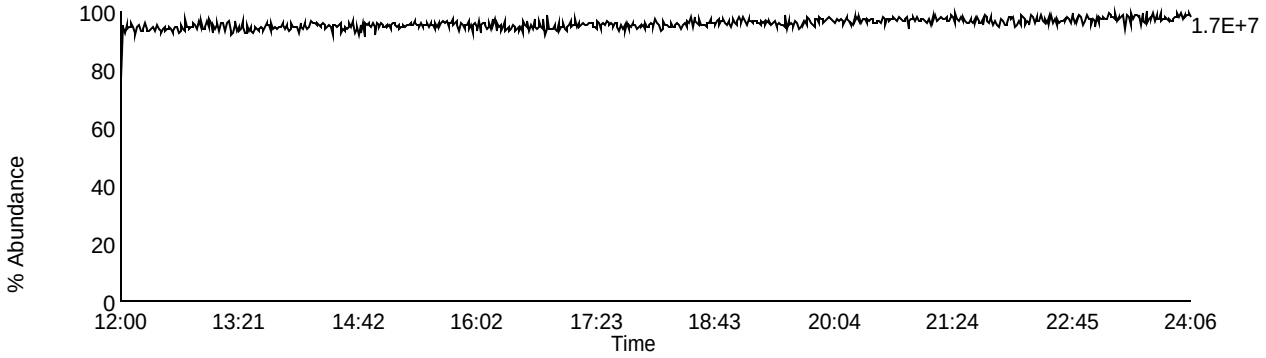
Data File: F140227B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

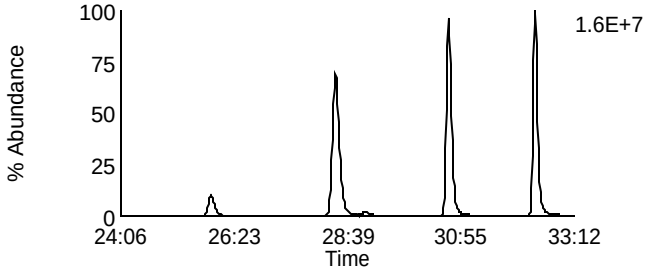


Homologue Group: Pentas

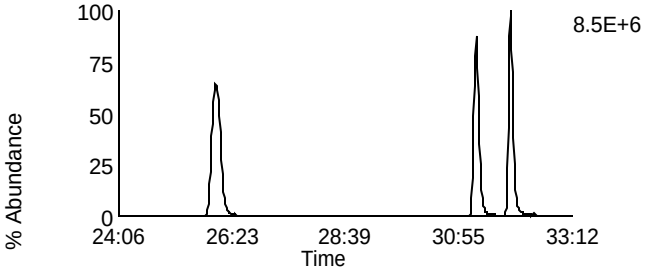
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

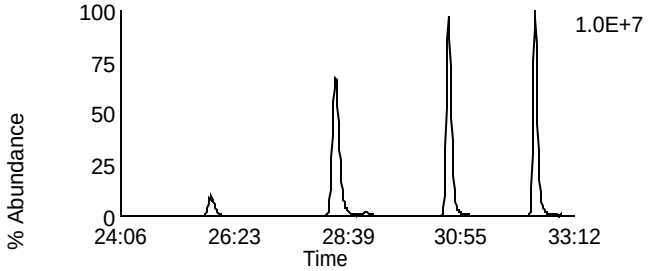
Data File: F140227B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - SMT AS Ca



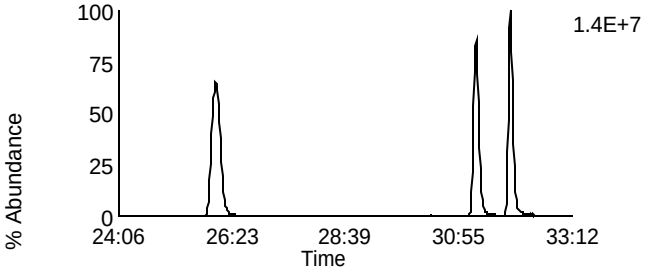
Data File: F140227B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - SMT AS Ca



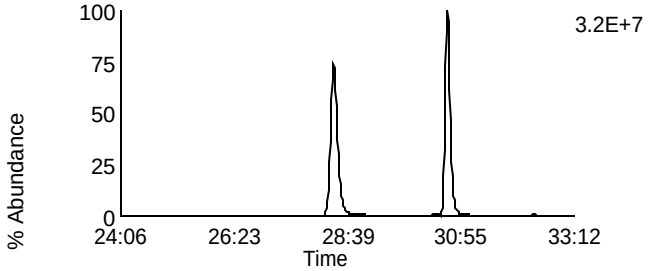
Data File: F140227B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - SMT AS Ca



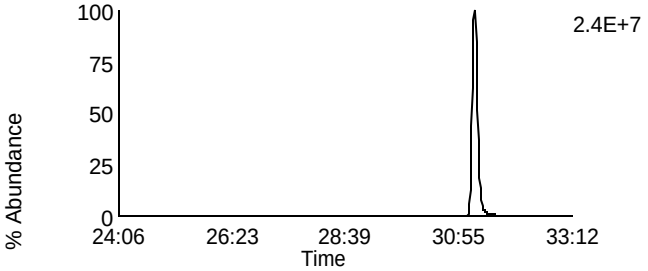
Data File: F140227B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - SMT AS Ca



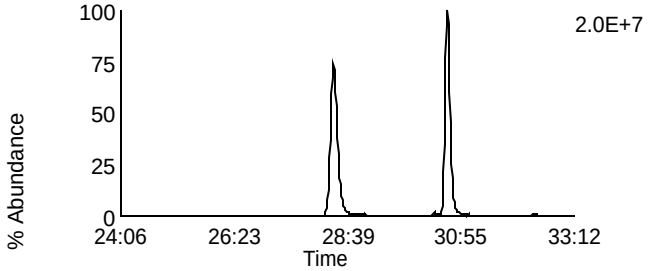
Data File: F140227B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - SMT AS Ca



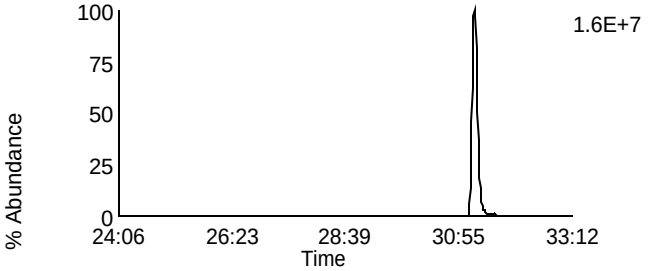
Data File: F140227B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - SMT AS Ca



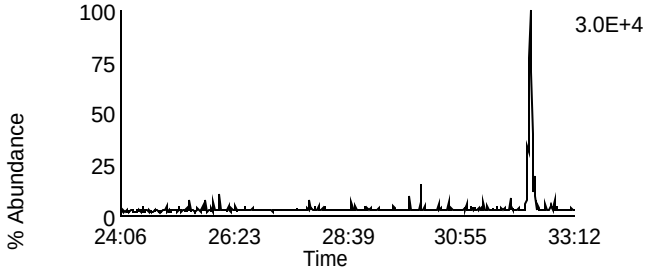
Data File: F140227B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - SMT AS Ca



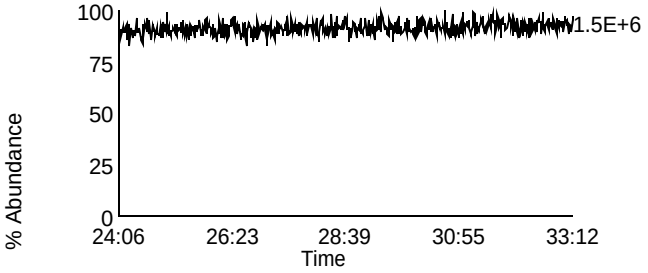
Data File: F140227B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

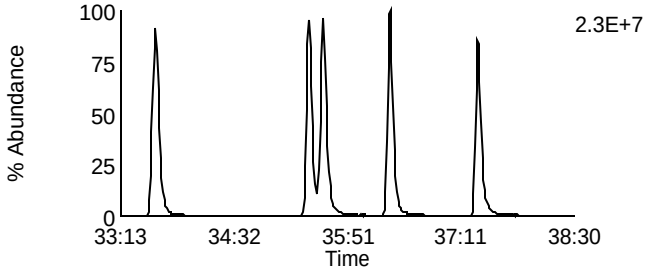


Homologue Group: Hexas

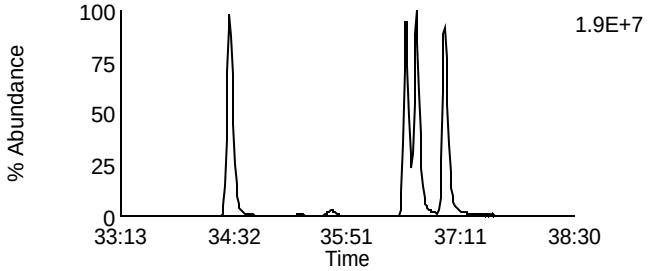
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

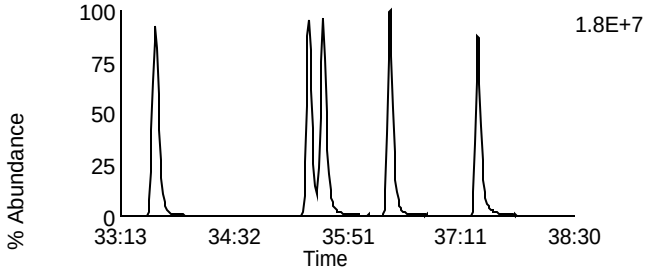
Data File: F140227B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - SMT AS Ca



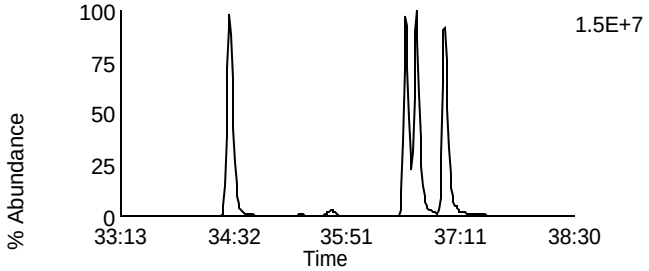
Data File: F140227B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - SMT AS Ca



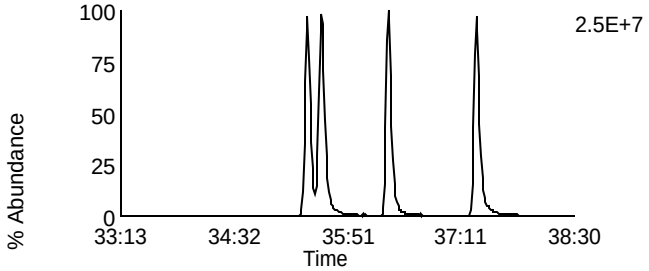
Data File: F140227B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - SMT AS Ca



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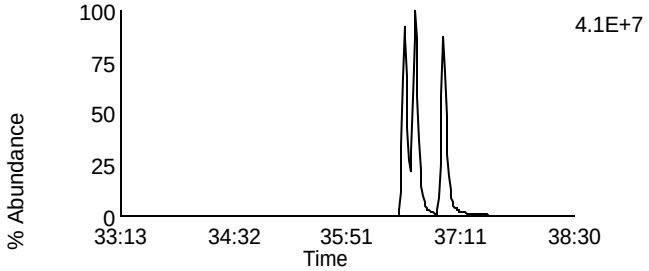
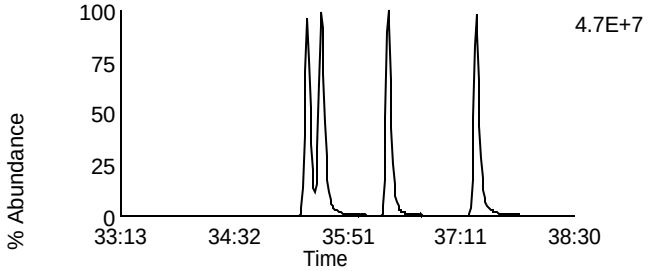
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - SMT AS Ca



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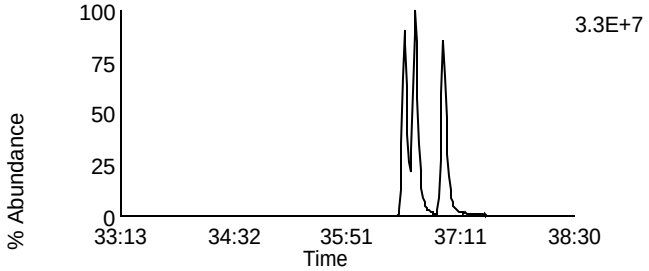
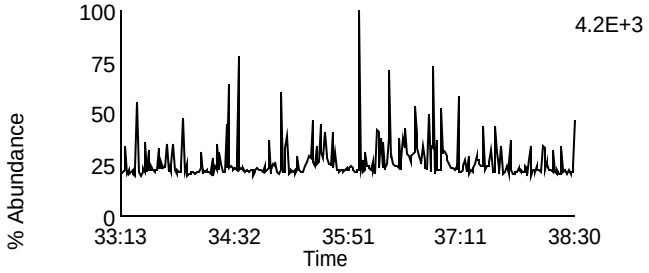
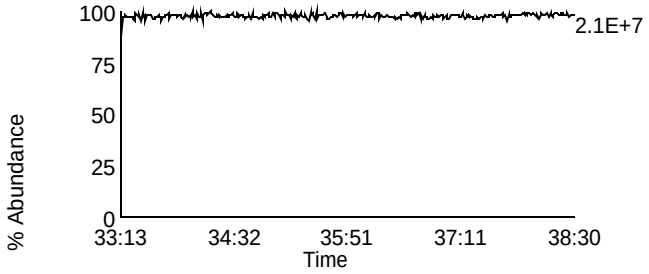
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - SMT AS Ca

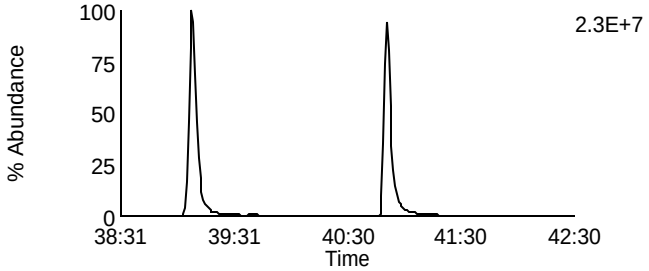


Homologue Group: Heptas

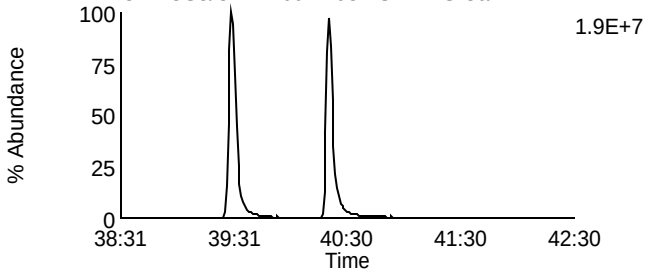
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

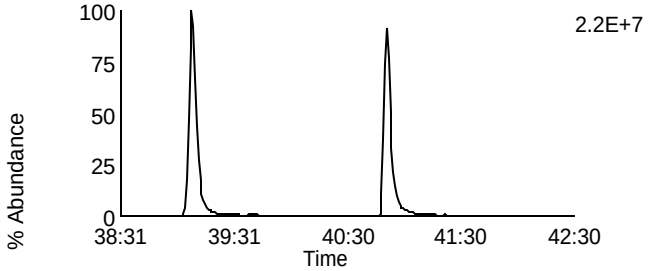
Data File: F140227B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - SMT AS Ca



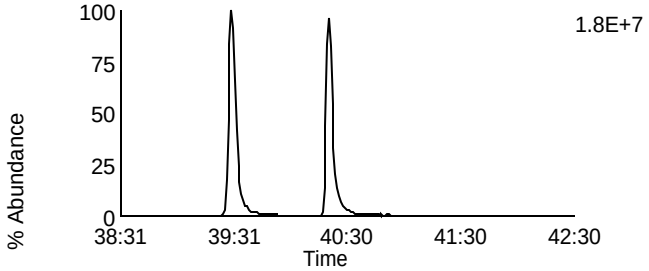
Data File: F140227B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - SMT AS Ca



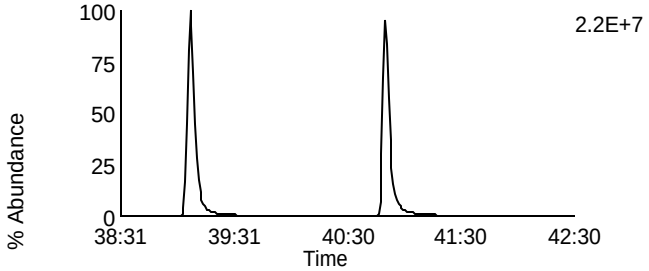
Data File: F140227B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - SMT AS Ca



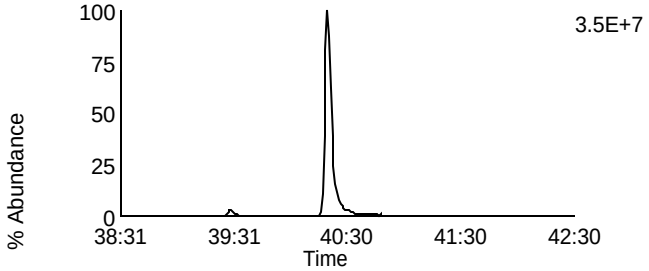
Data File: F140227B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-293 - SMT AS Ca



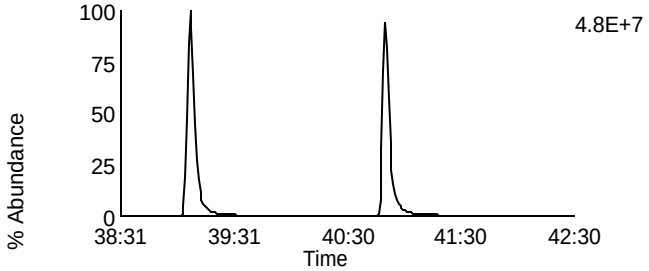
Data File: F140227B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - SMT AS Ca



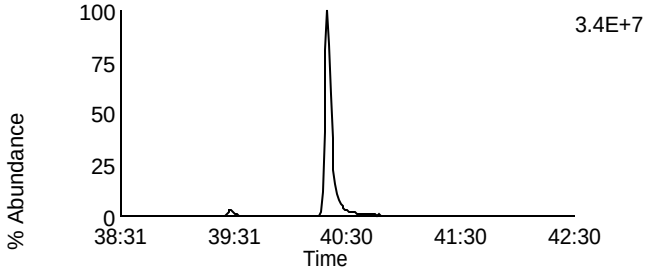
Data File: F140227B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - SMT AS Ca



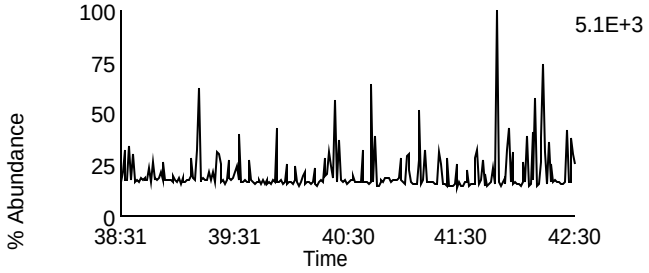
Data File: F140227B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - SMT AS Ca



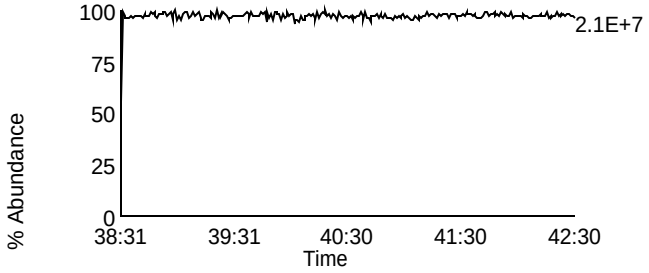
Data File: F140227B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - SMT AS Ca

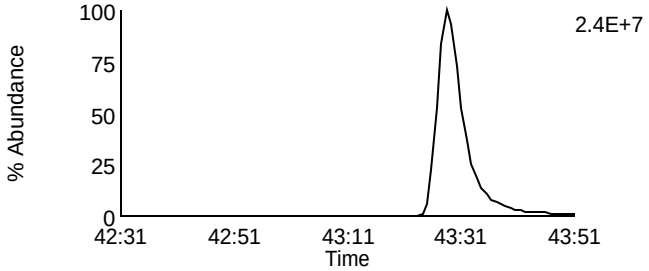


Homologue Group: Octas

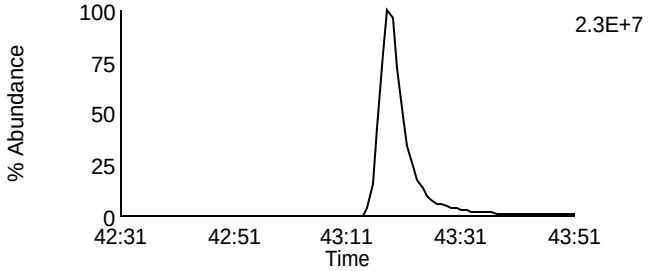
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

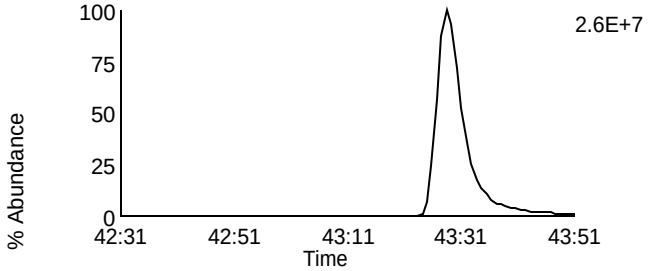
Data File: F140227B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - SMT AS Ca



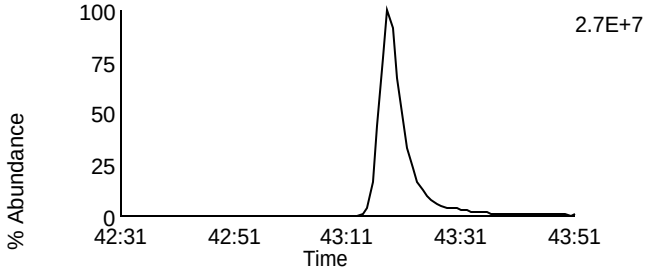
Data File: F140227B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - SMT AS Ca



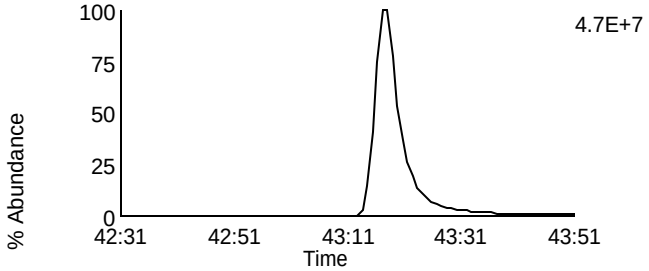
Data File: F140227B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - SMT AS Ca



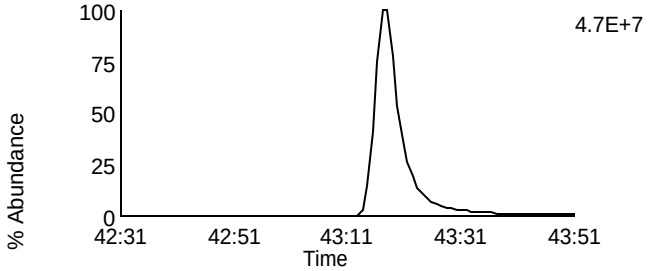
Data File: F140227B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - SMT AS Ca



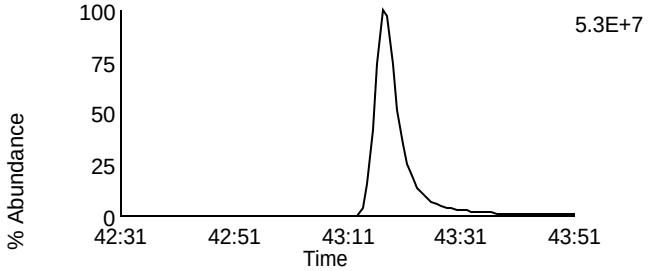
Data File: F140227B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - SMT AS Ca



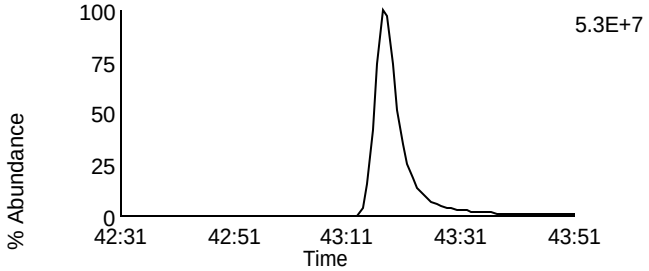
Data File: F140227B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - SMT AS Ca



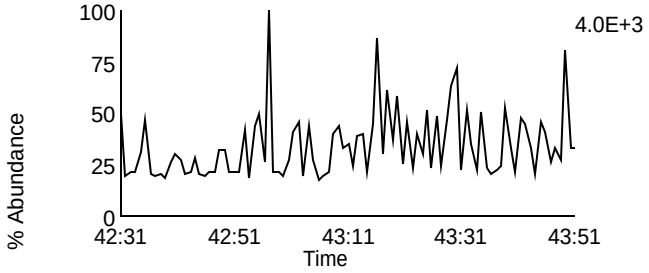
Data File: F140227B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - SMT AS Ca



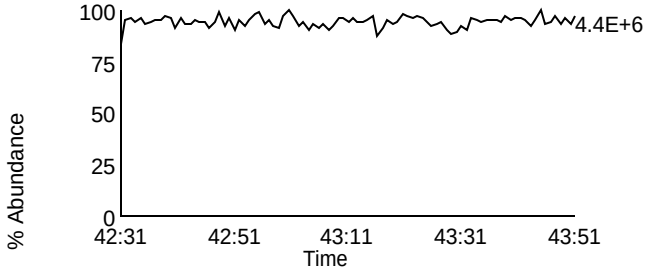
Data File: F140227B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - SMT AS Ca

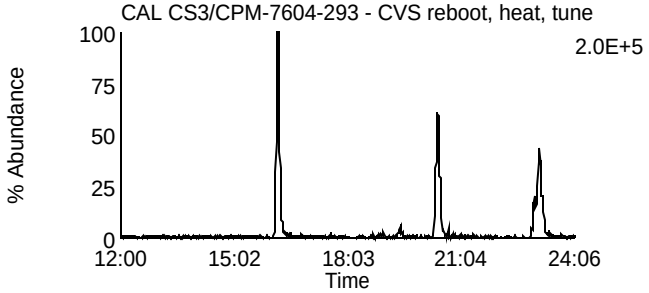


Homologue Group: Tetras

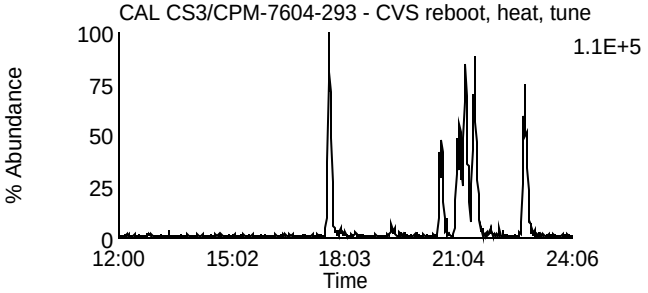
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

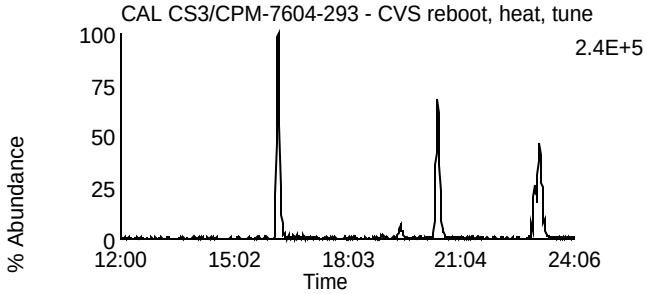
Data File: F140228B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



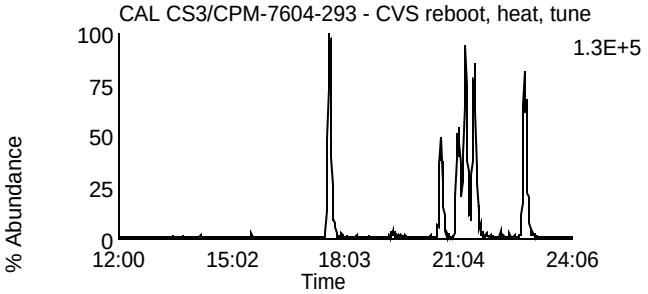
Data File: F140228B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



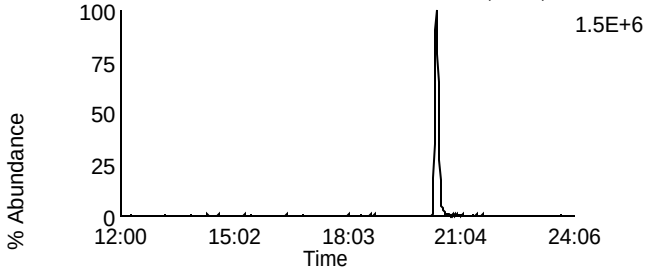
Data File: F140228B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



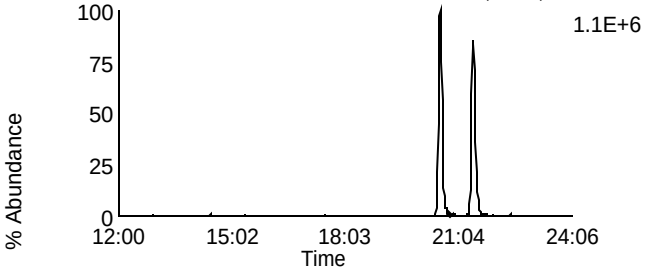
Data File: F140228B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



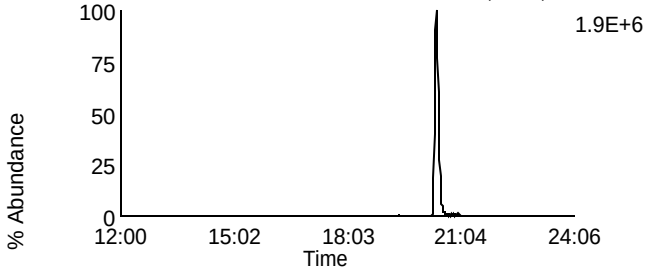
Data File: F140228B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



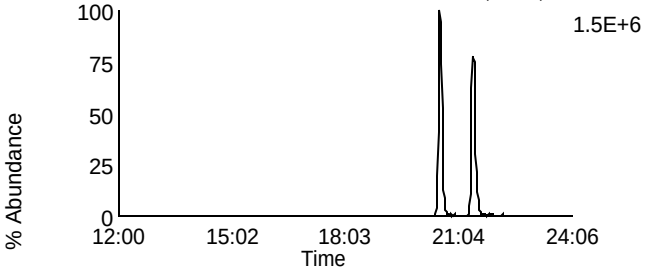
Data File: F140228B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



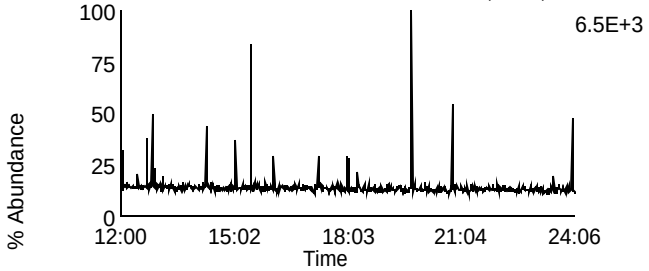
Data File: F140228B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



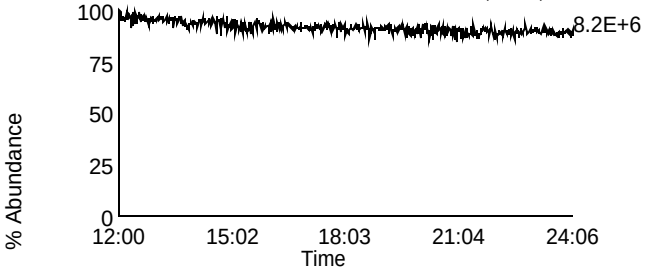
Data File: F140228B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

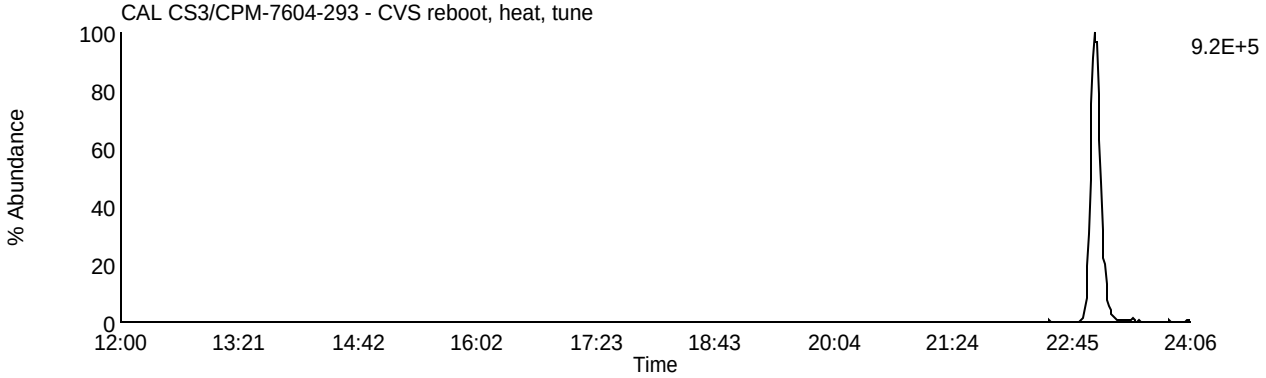


Homologue Group: Penta & Cleanup

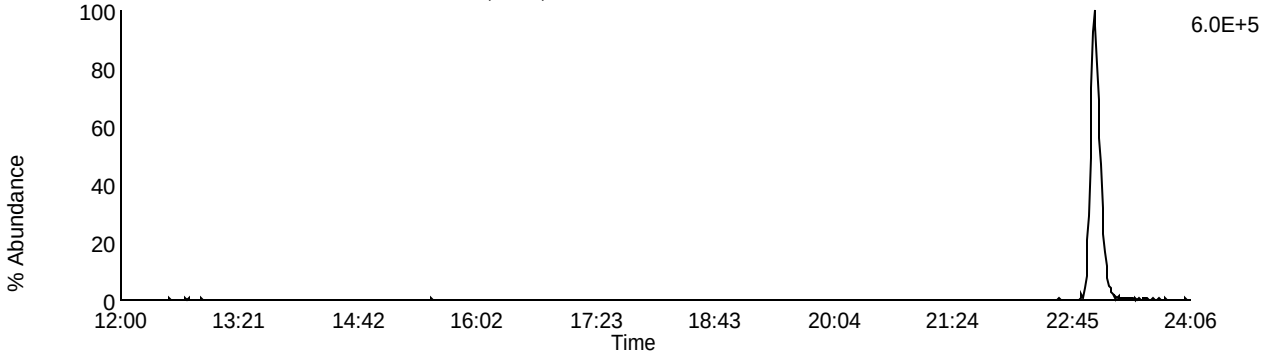
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

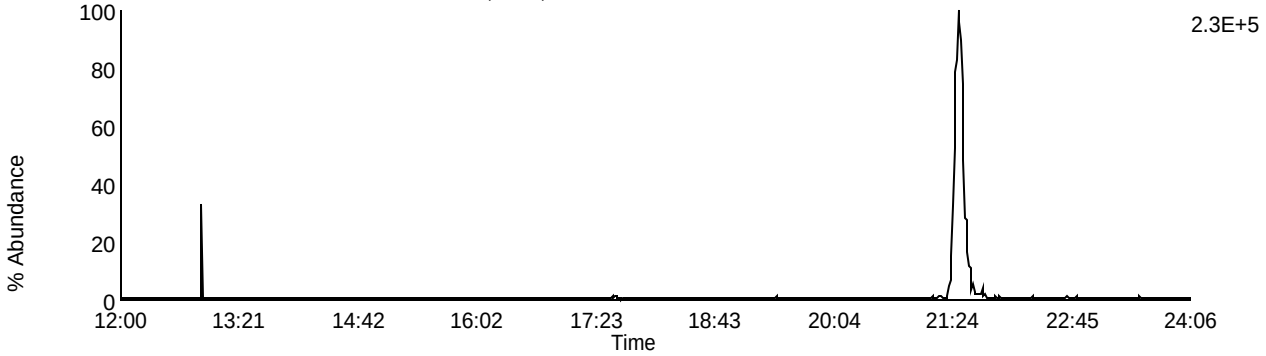
Data File: F140228B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



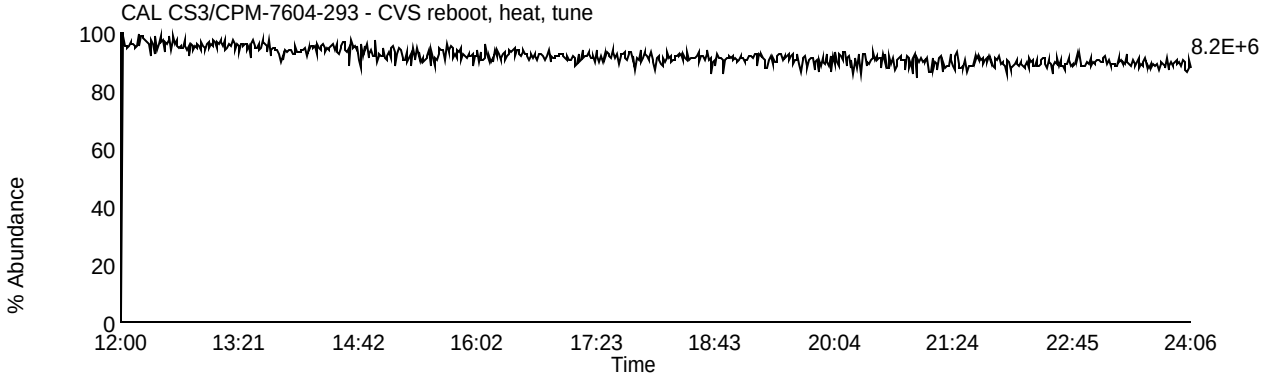
Data File: F140228B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

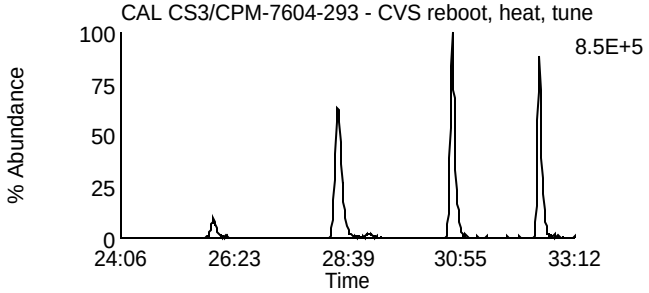


Homologue Group: Pentas

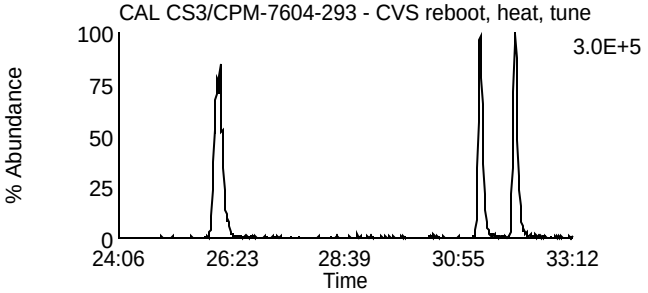
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

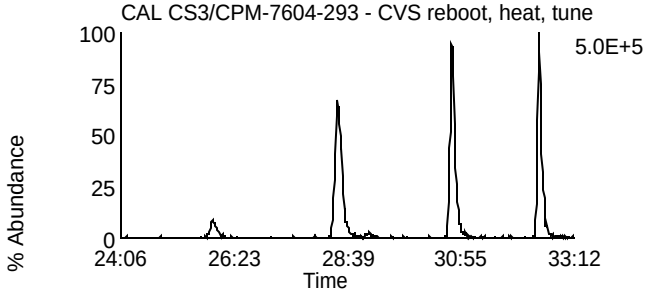
Data File: F140228B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



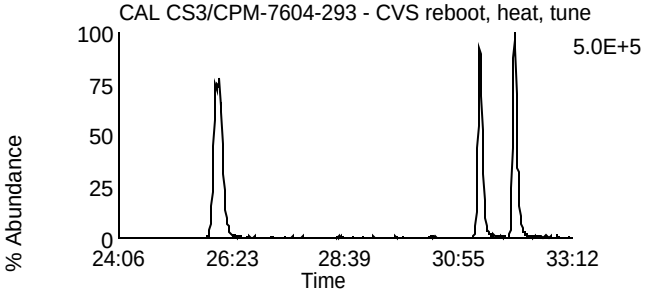
Data File: F140228B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



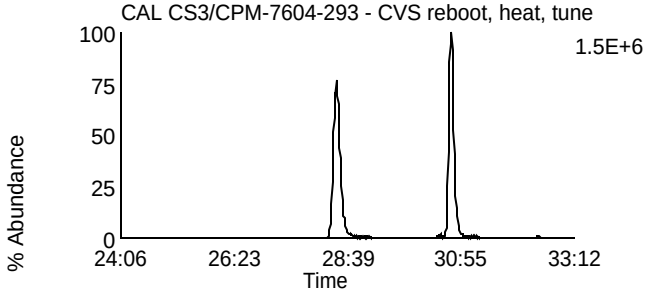
Data File: F140228B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



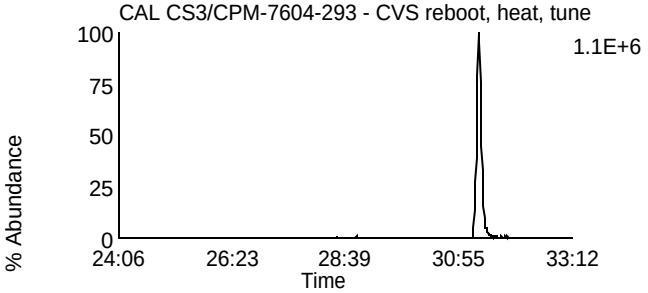
Data File: F140228B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



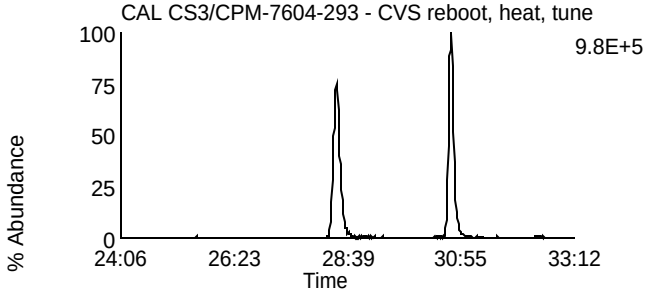
Data File: F140228B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



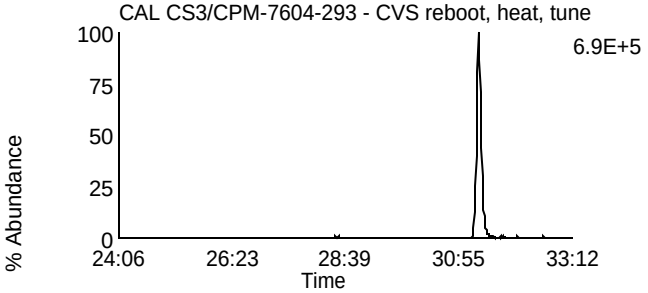
Data File: F140228B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



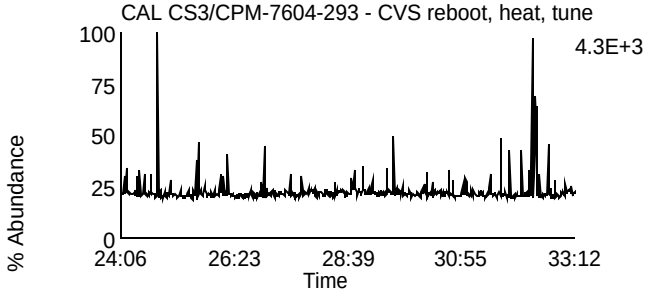
Data File: F140228B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



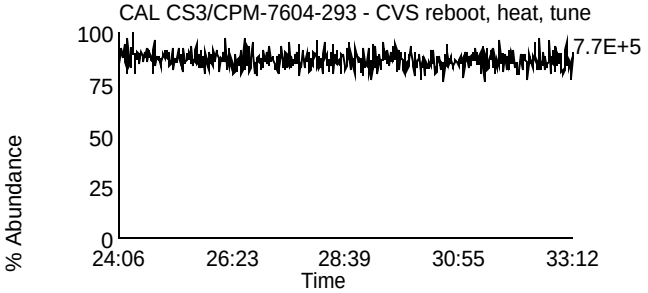
Data File: F140228B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

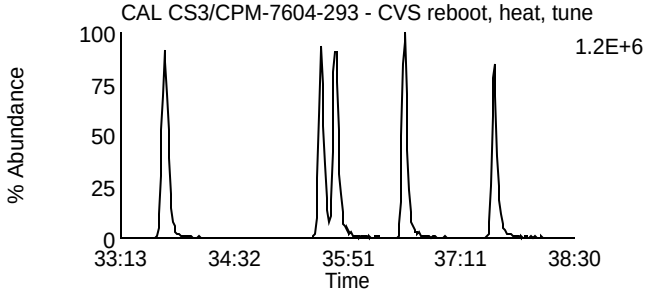


Homologue Group: Hexas

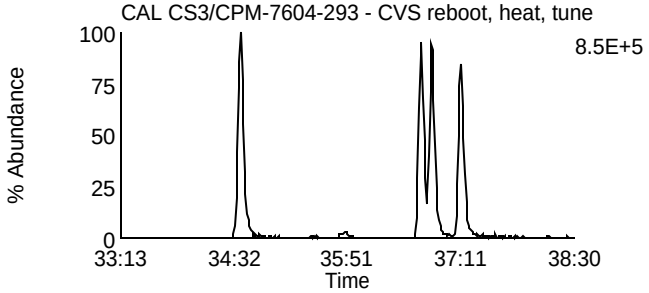
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

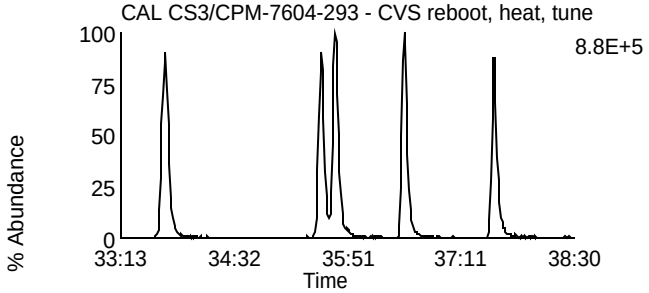
Data File: F140228B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



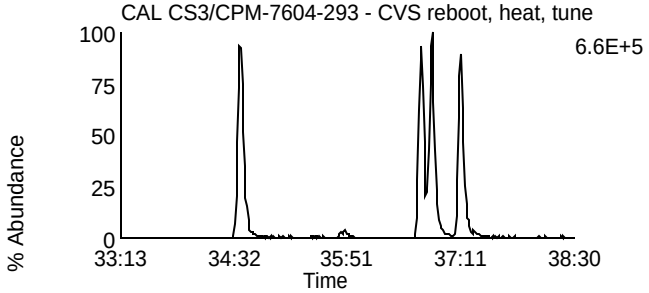
Data File: F140228B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



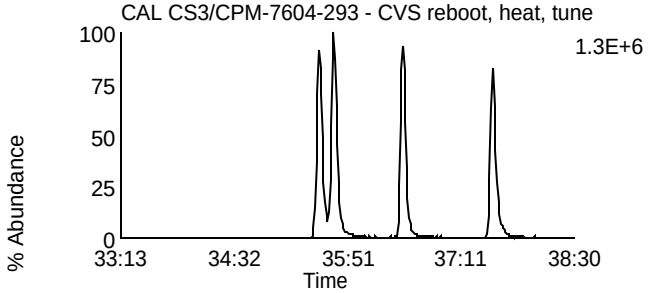
Data File: F140228B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



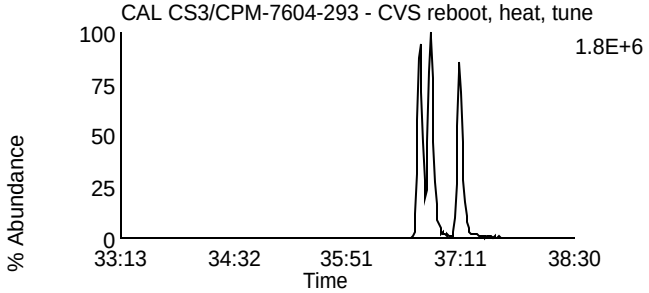
Data File: F140228B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



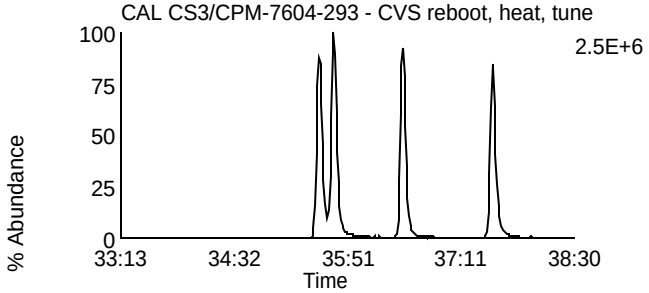
Data File: F140228B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



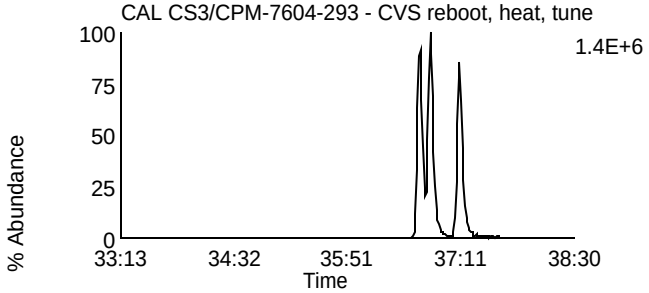
Data File: F140228B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



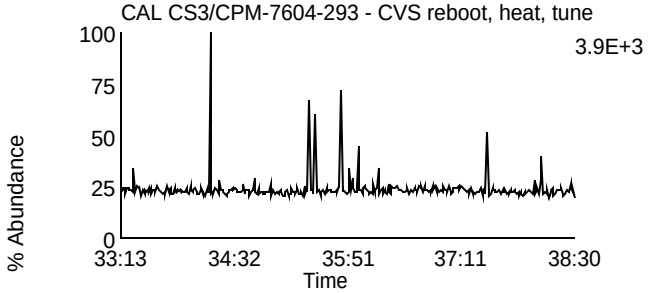
Data File: F140228B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



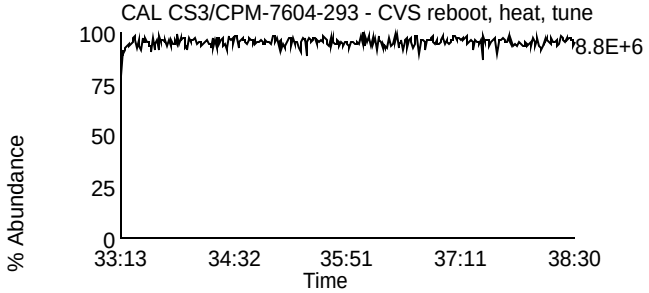
Data File: F140228B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

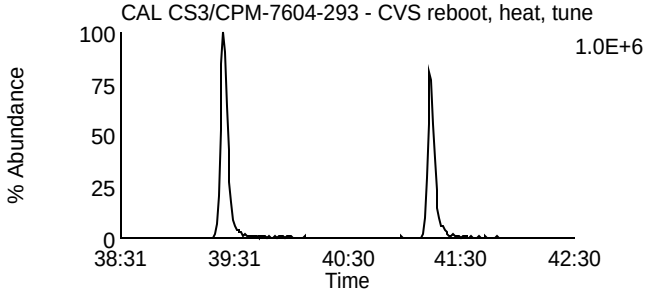


Homologue Group: Heptas

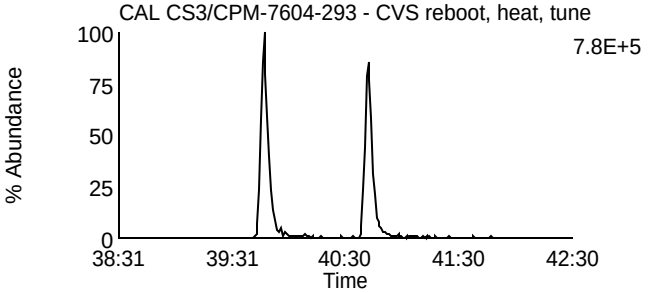
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

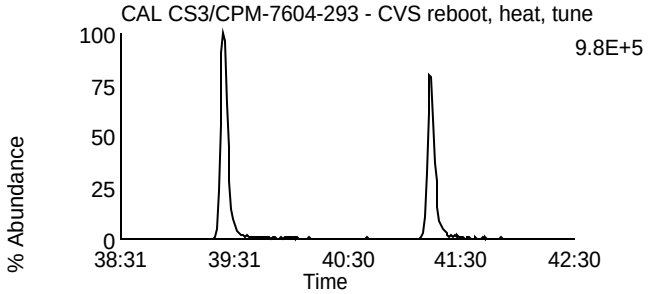
Data File: F140228B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



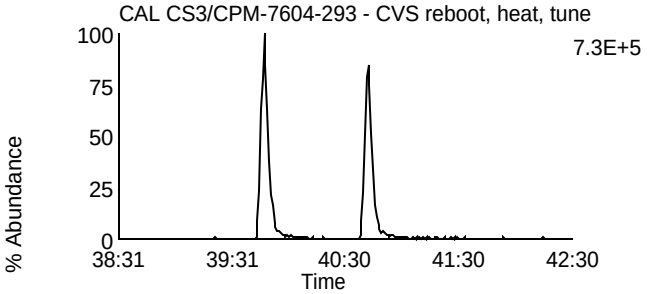
Data File: F140228B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



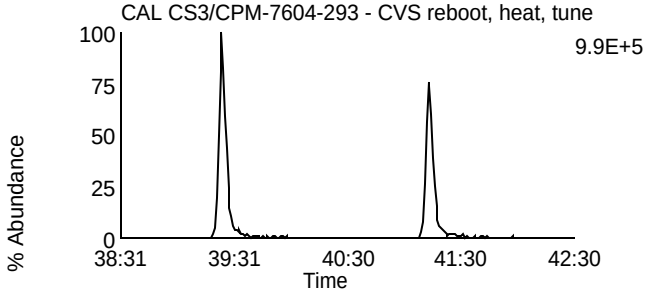
Data File: F140228B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



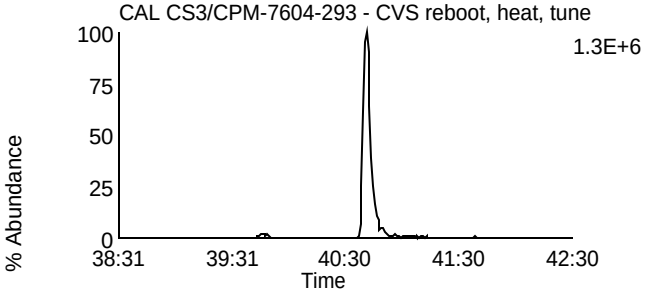
Data File: F140228B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



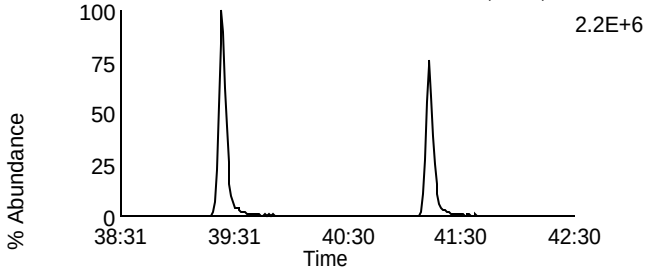
Data File: F140228B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



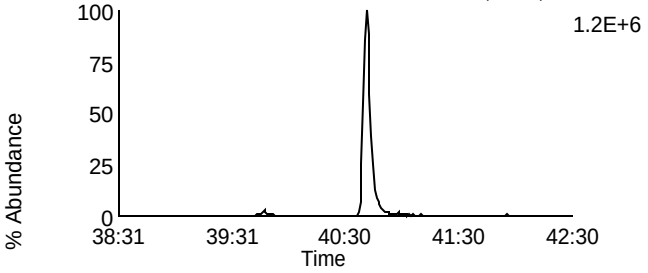
Data File: F140228B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



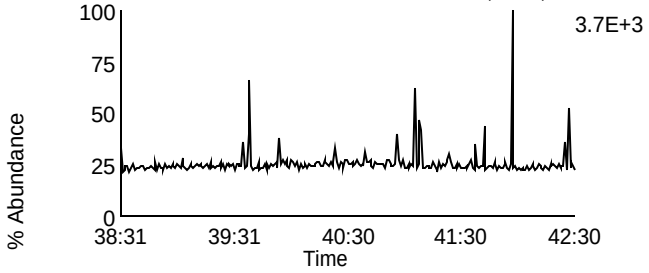
Data File: F140228B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



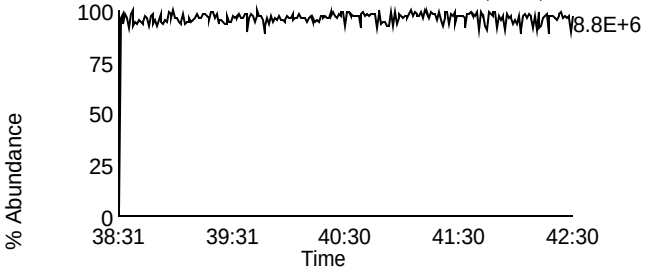
Data File: F140228B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

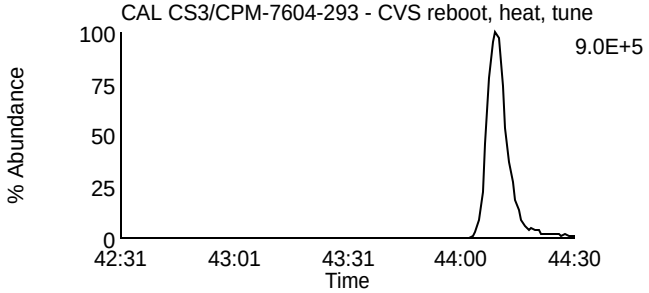


Homologue Group: Octas

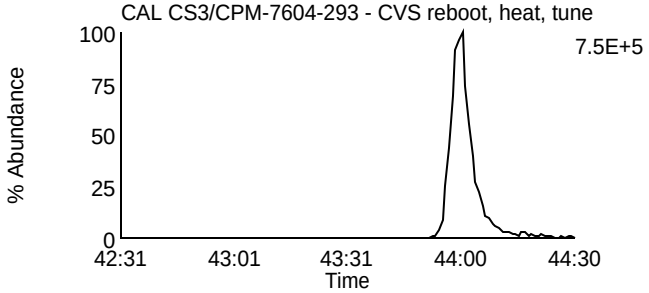
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

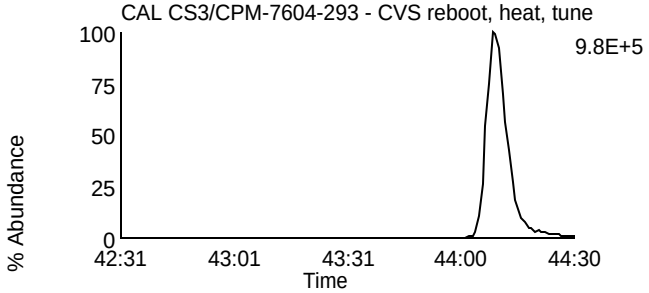
Data File: F140228B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



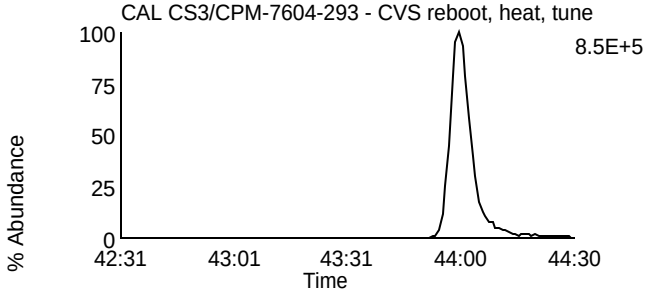
Data File: F140228B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



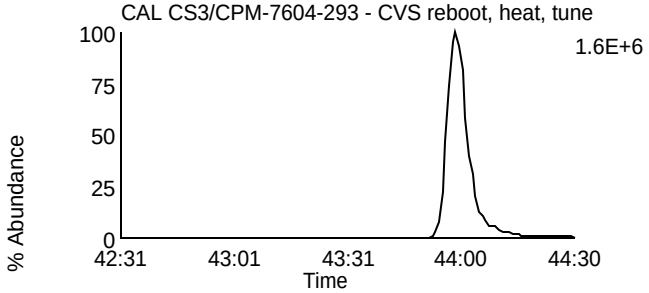
Data File: F140228B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



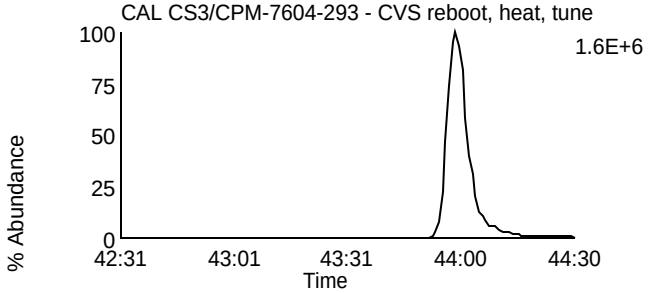
Data File: F140228B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



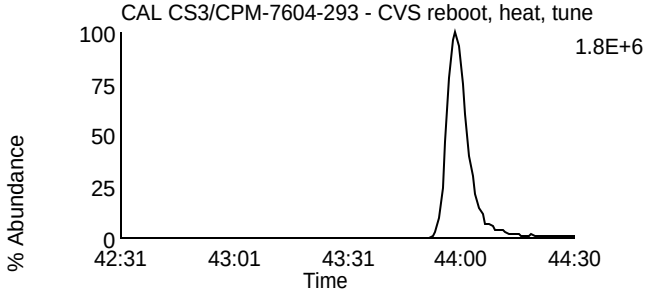
Data File: F140228B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



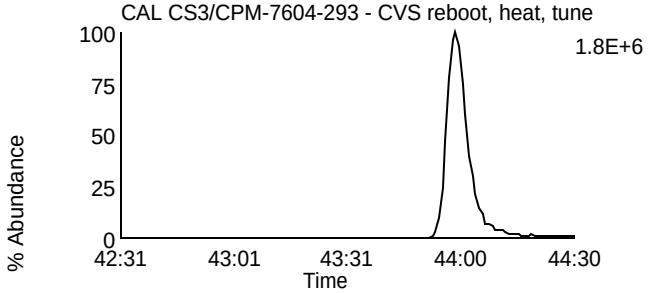
Data File: F140228B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



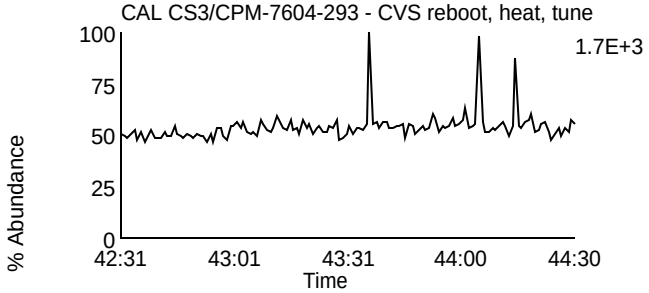
Data File: F140228B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



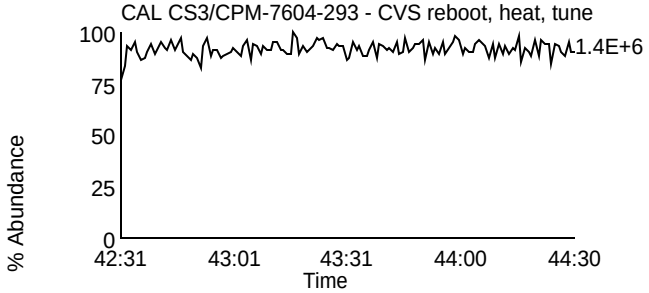
Data File: F140228B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

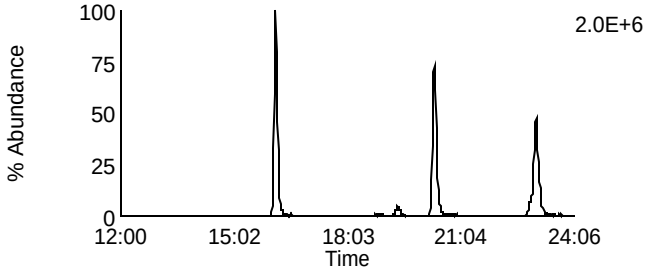


Homologue Group: Tetras

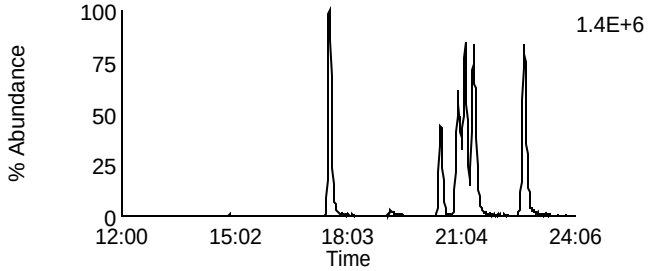
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

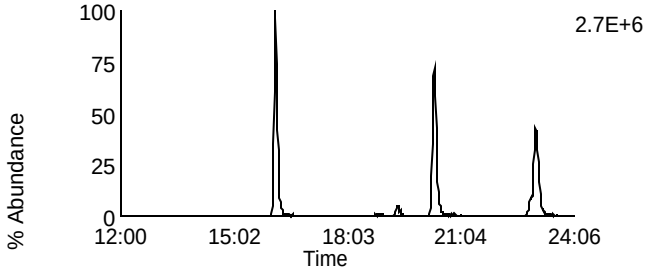
Data File: F140301B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - BAL TC



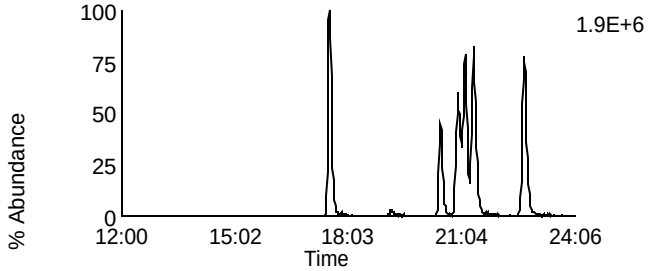
Data File: F140301B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - BAL TC



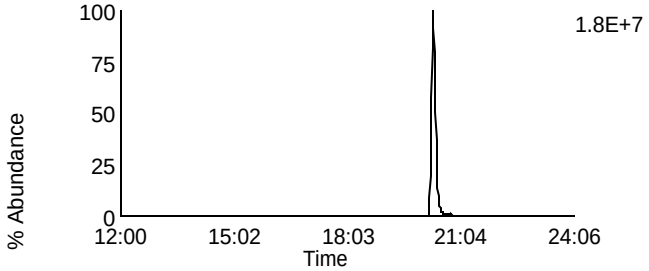
Data File: F140301B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - BAL TC



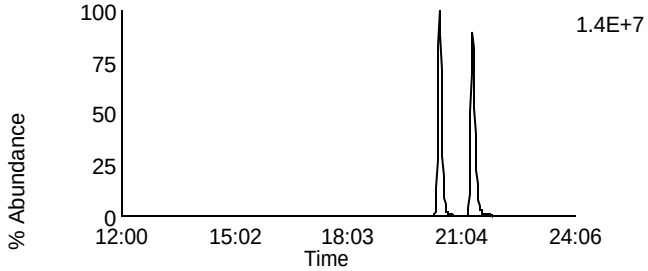
Data File: F140301B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - BAL TC



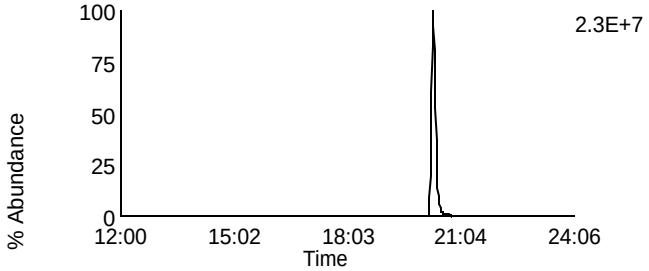
Data File: F140301B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - BAL TC



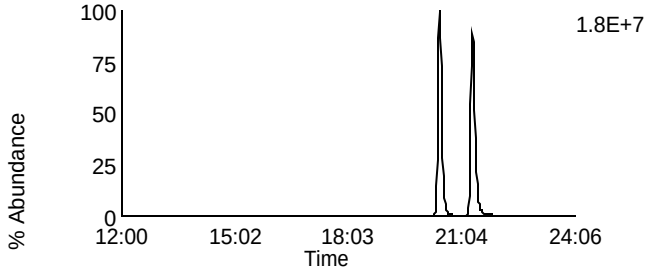
Data File: F140301B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - BAL TC



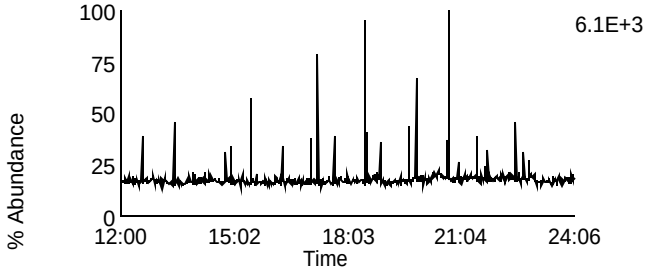
Data File: F140301B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - BAL TC



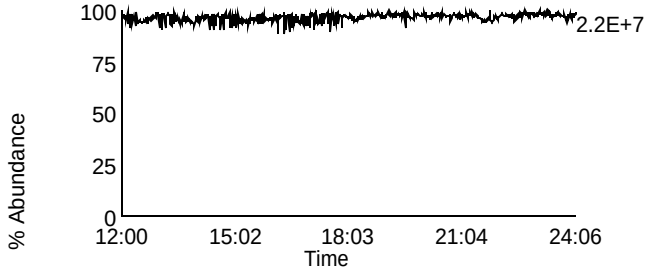
Data File: F140301B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - BAL TC

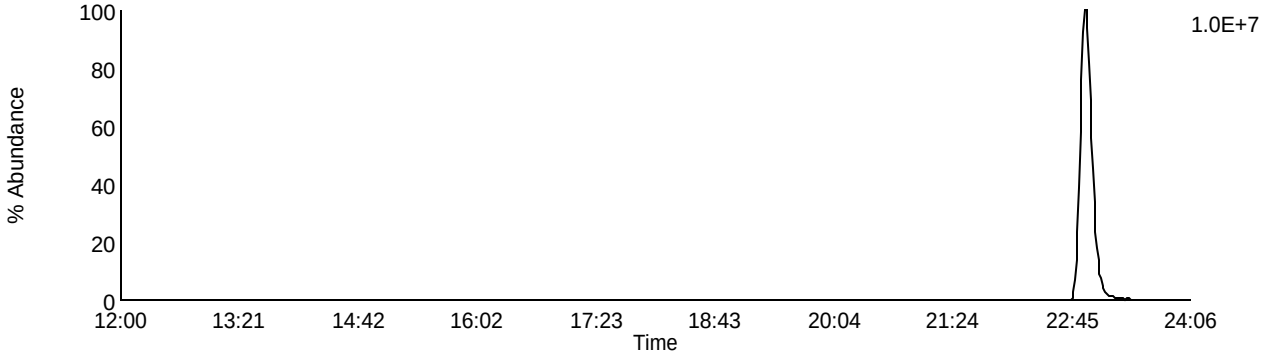


Homologue Group: Penta & Cleanup

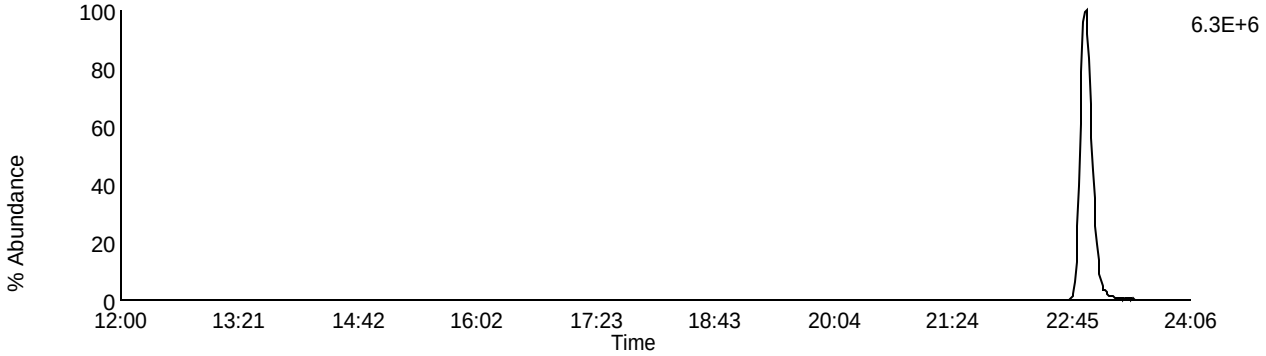
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

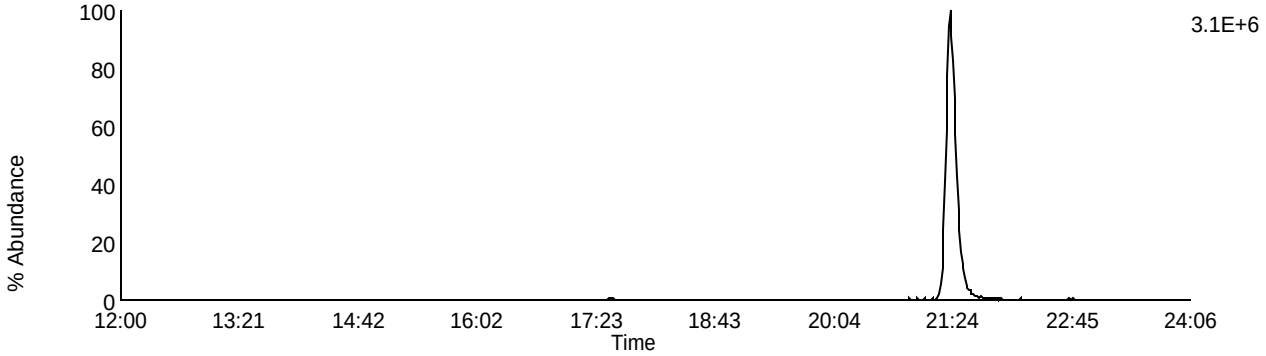
Data File: F140301B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - BAL TC



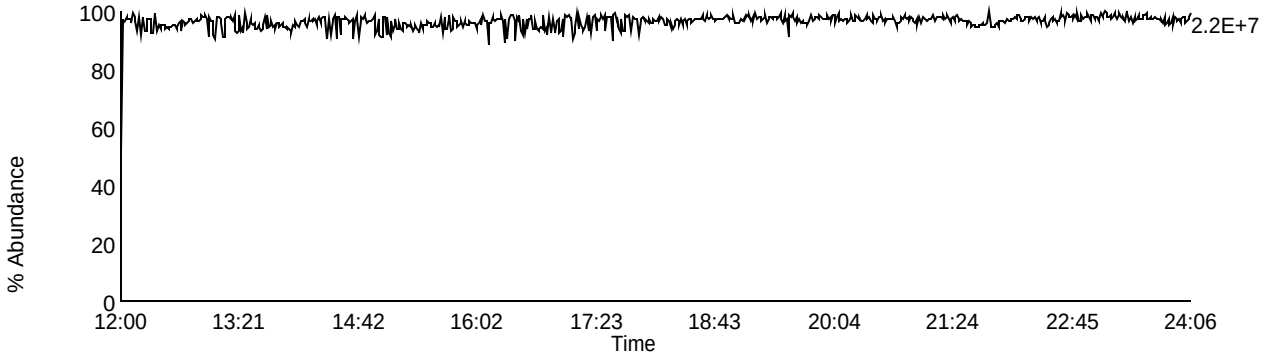
Data File: F140301B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - BAL TC

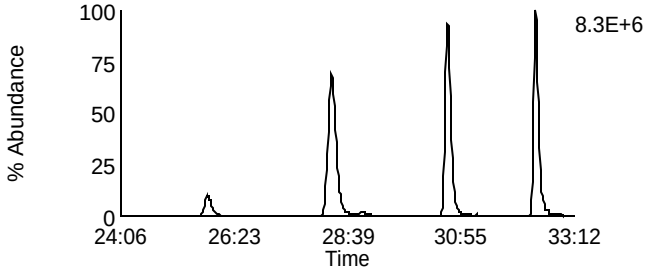


Homologue Group: Pentas

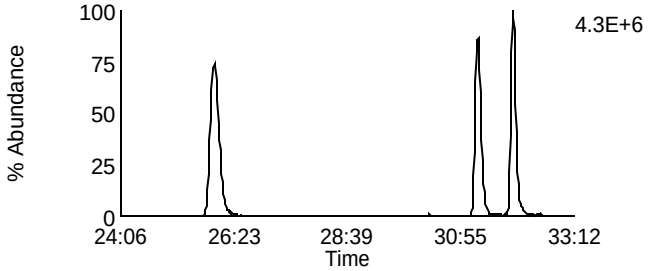
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

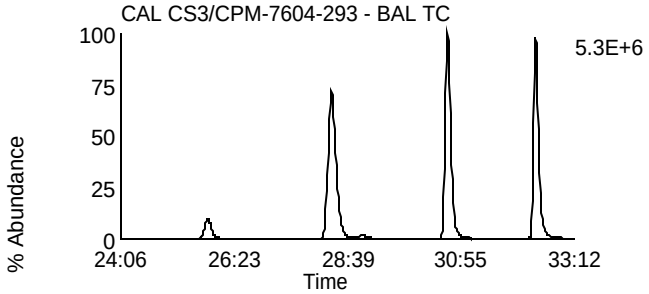
Data File: F140301B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - BAL TC



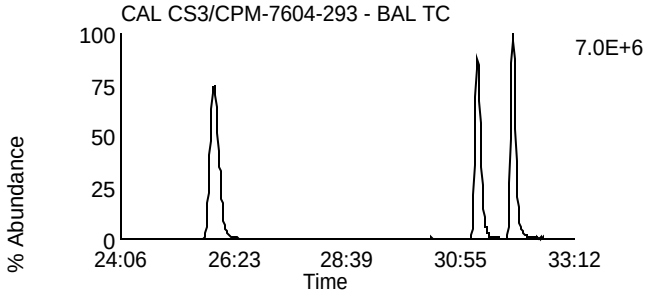
Data File: F140301B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - BAL TC



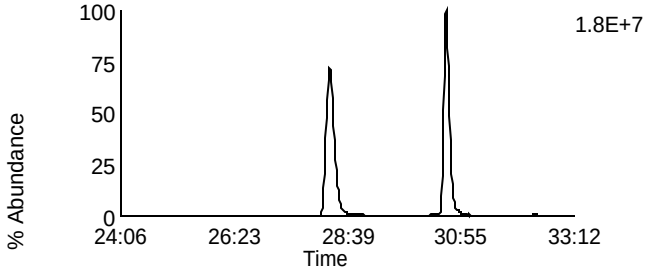
Data File: F140301B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - BAL TC



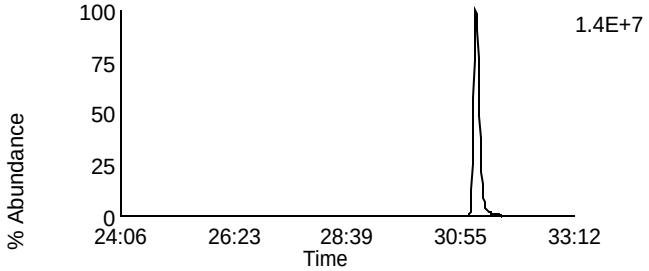
Data File: F140301B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - BAL TC



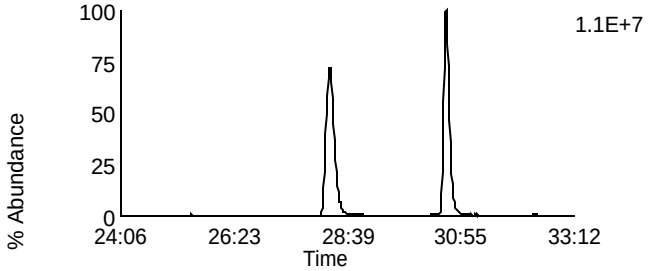
Data File: F140301B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - BAL TC



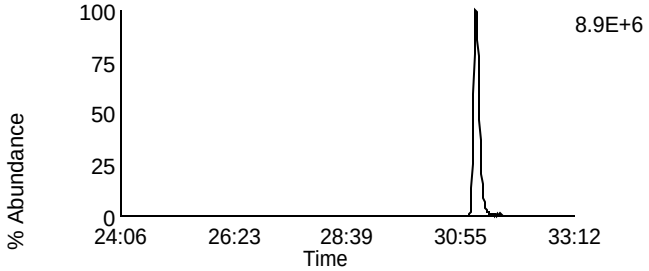
Data File: F140301B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - BAL TC



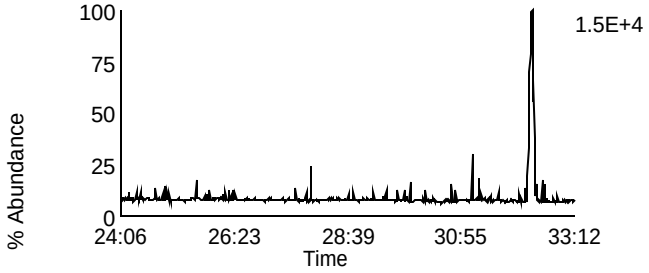
Data File: F140301B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - BAL TC



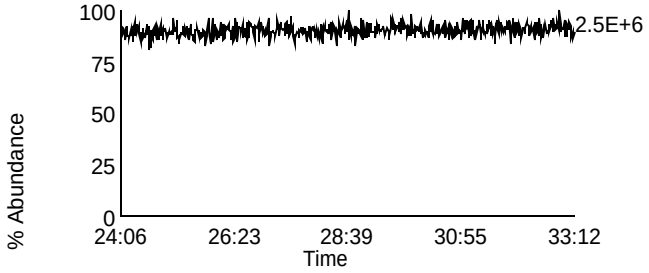
Data File: F140301B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - BAL TC

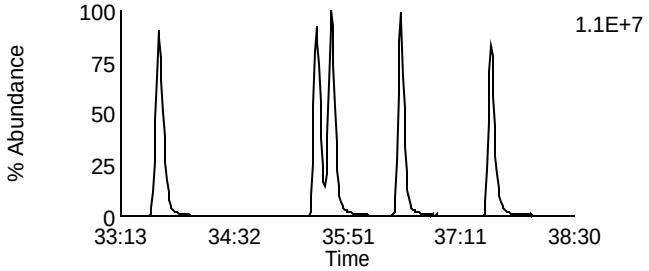


Homologue Group: Hexas

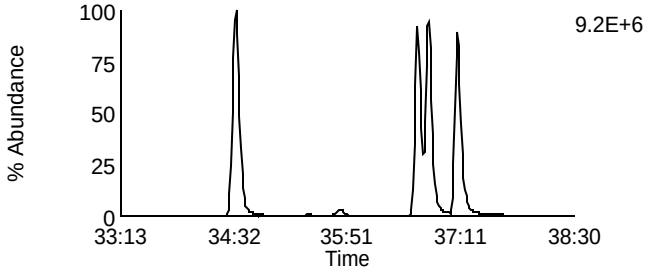
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

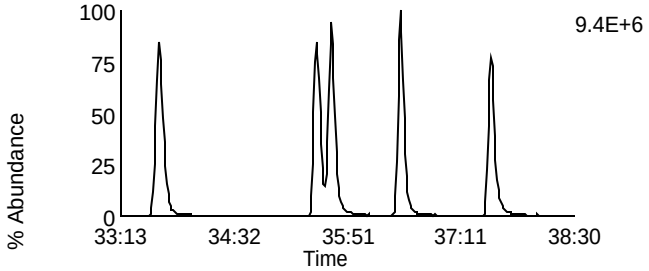
Data File: F140301B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - BAL TC



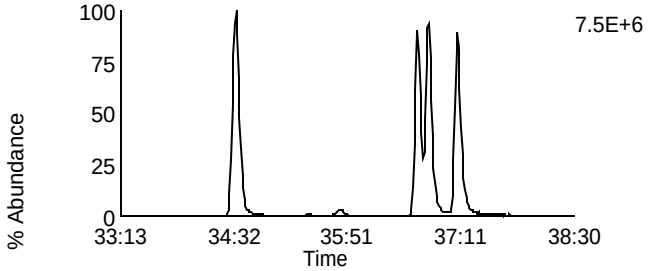
Data File: F140301B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - BAL TC



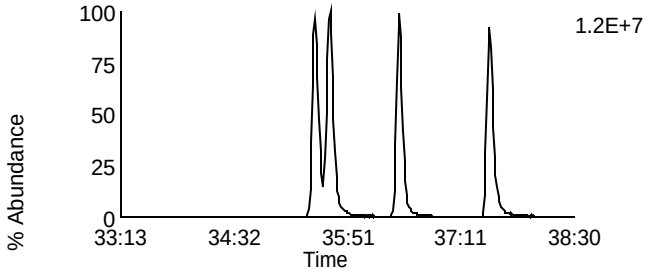
Data File: F140301B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - BAL TC



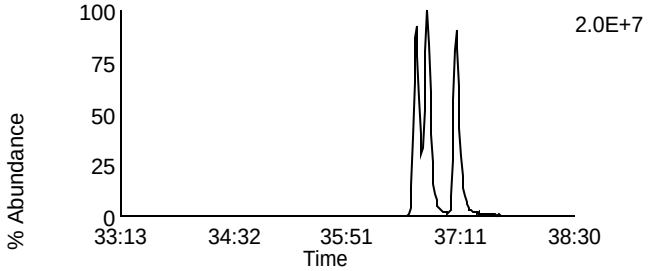
Data File: F140301B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - BAL TC



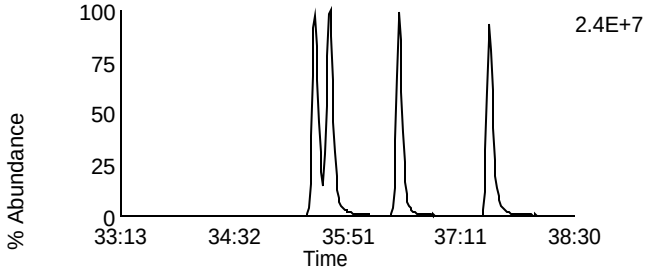
Data File: F140301B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - BAL TC



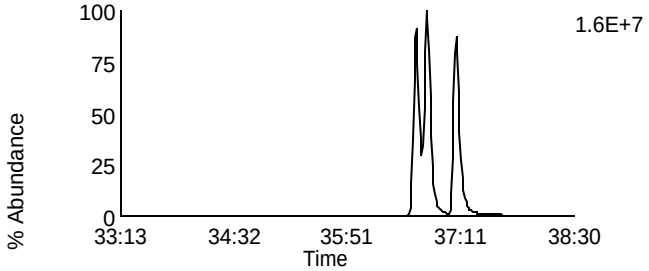
Data File: F140301B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - BAL TC



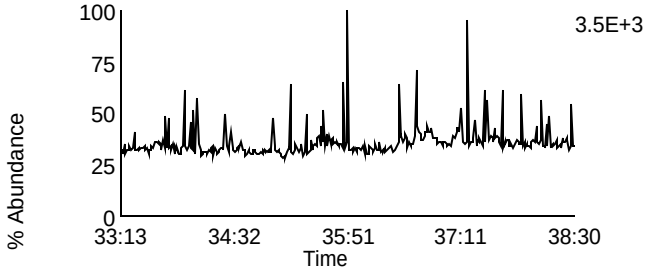
Data File: F140301B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - BAL TC



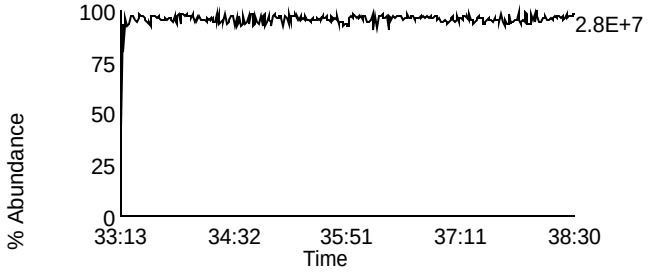
Data File: F140301B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - BAL TC

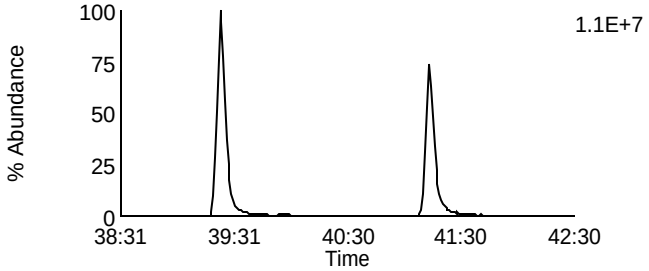


Homologue Group: Heptas

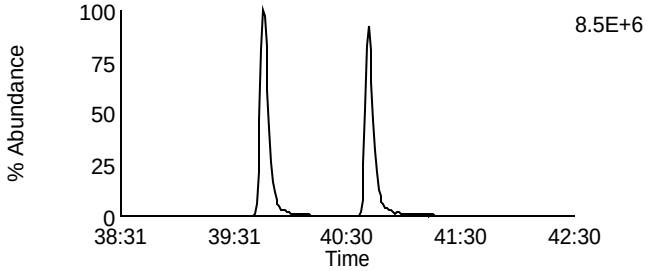
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

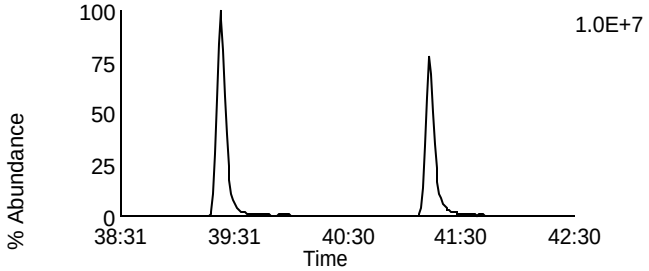
Data File: F140301B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - BAL TC



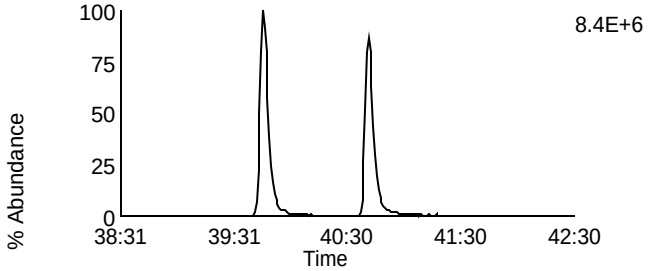
Data File: F140301B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - BAL TC



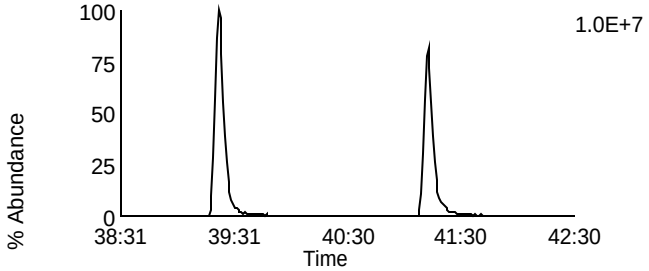
Data File: F140301B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - BAL TC



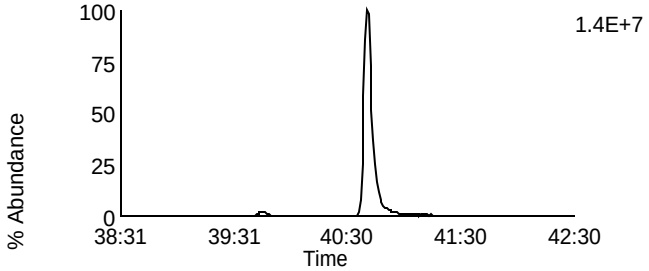
Data File: F140301B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-293 - BAL TC



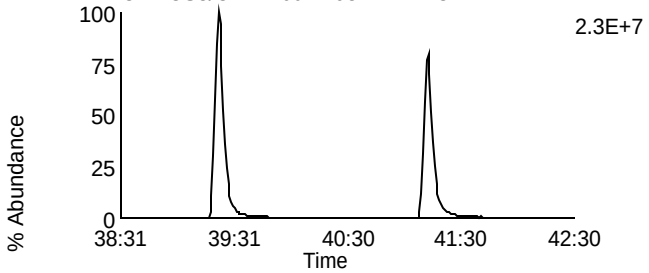
Data File: F140301B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - BAL TC



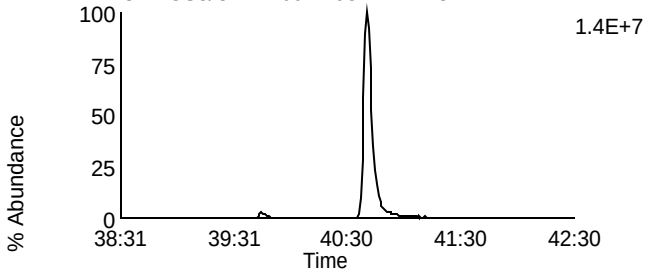
Data File: F140301B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - BAL TC



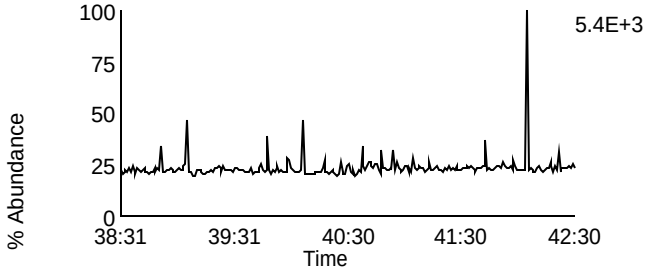
Data File: F140301B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - BAL TC



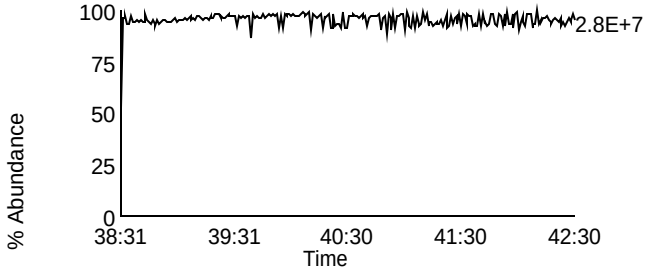
Data File: F140301B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - BAL TC

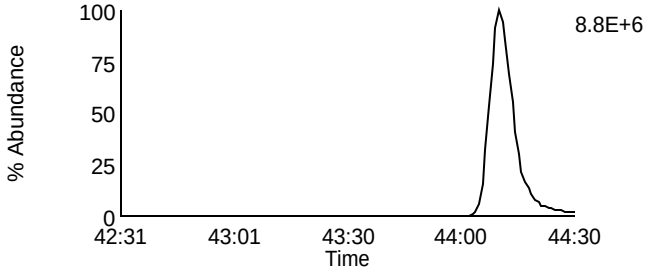


Homologue Group: Octas

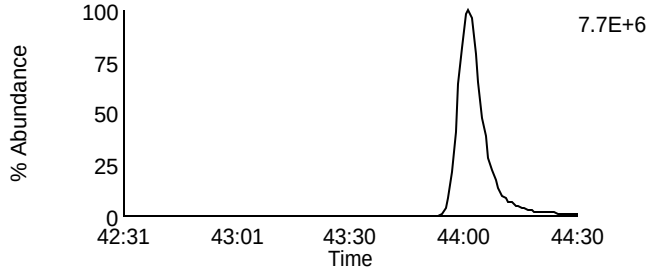
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR05 (F)

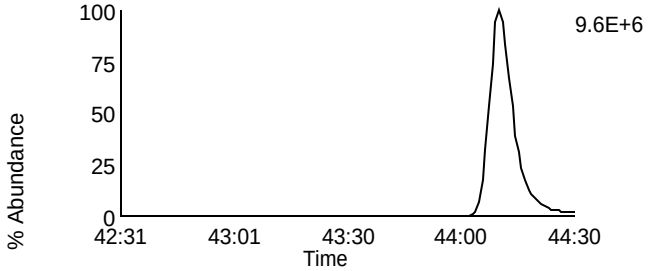
Data File: F140301B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - BAL TC



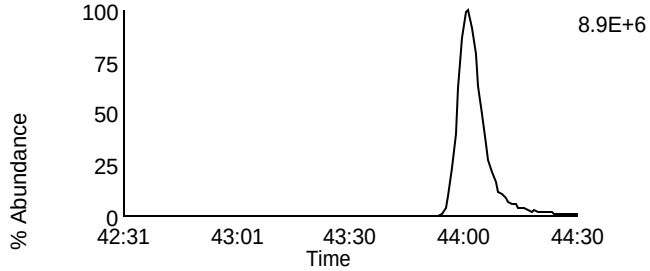
Data File: F140301B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - BAL TC



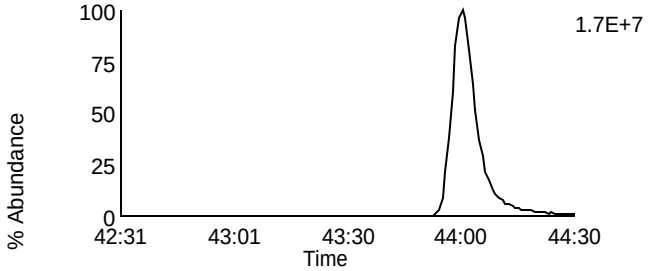
Data File: F140301B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - BAL TC



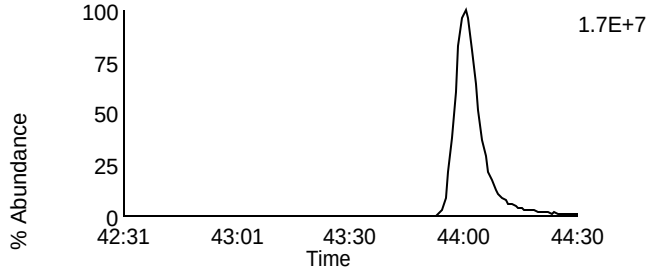
Data File: F140301B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - BAL TC



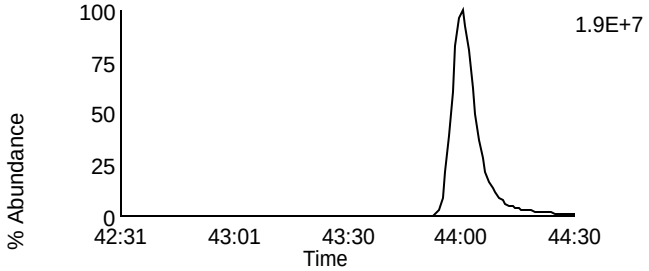
Data File: F140301B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - BAL TC



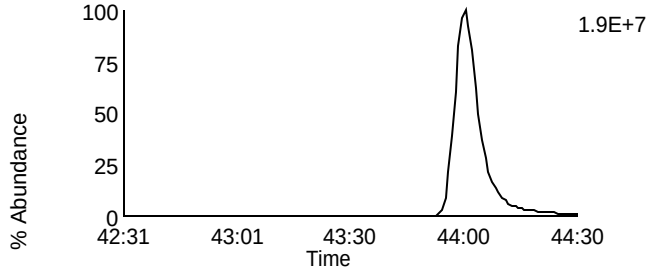
Data File: F140301B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - BAL TC



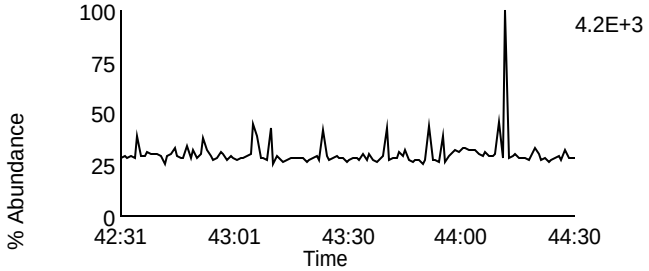
Data File: F140301B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - BAL TC



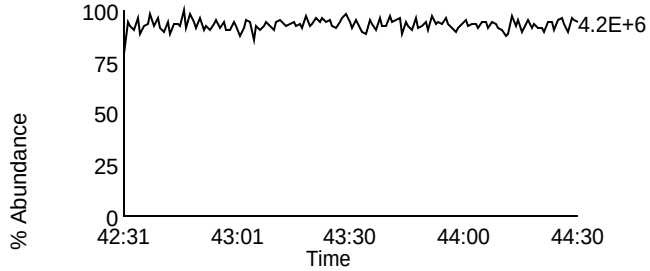
Data File: F140301B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - BAL TC

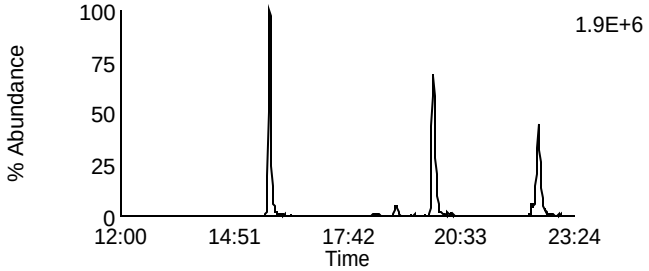


Homologue Group: Tetras

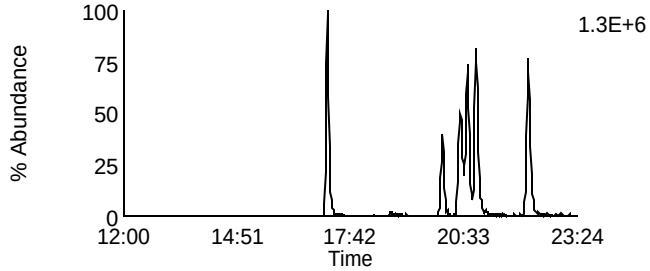
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

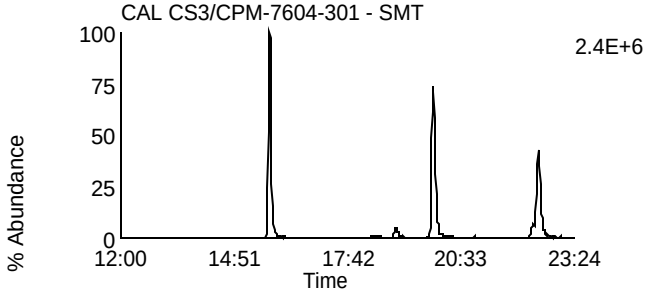
Data File: F140306A_23 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - SMT



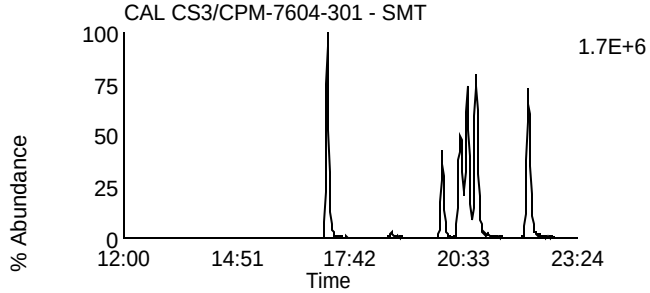
Data File: F140306A_23 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - SMT



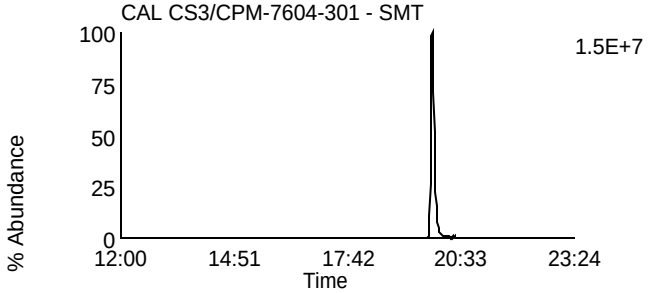
Data File: F140306A_23 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - SMT



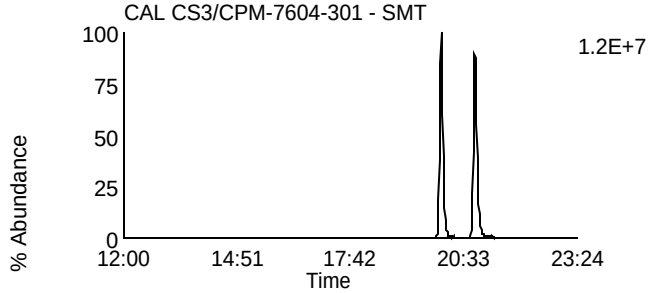
Data File: F140306A_23 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - SMT



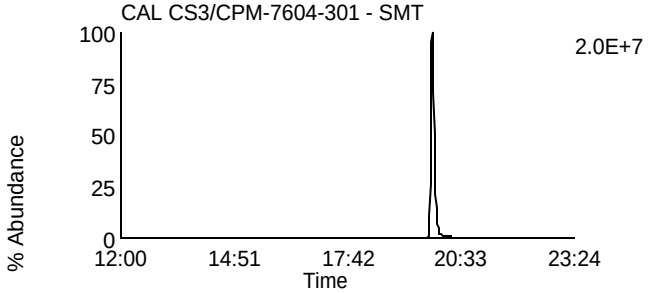
Data File: F140306A_23 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - SMT



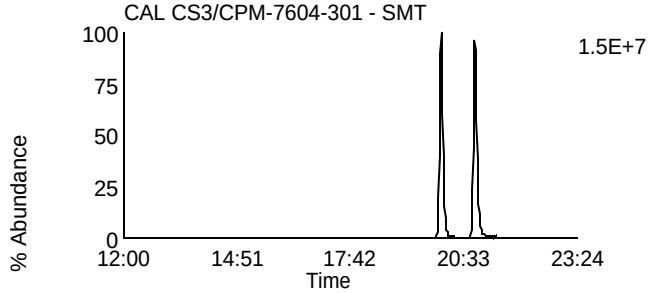
Data File: F140306A_23 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - SMT



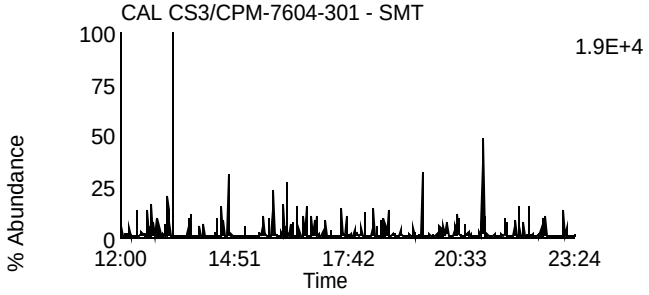
Data File: F140306A_23 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - SMT



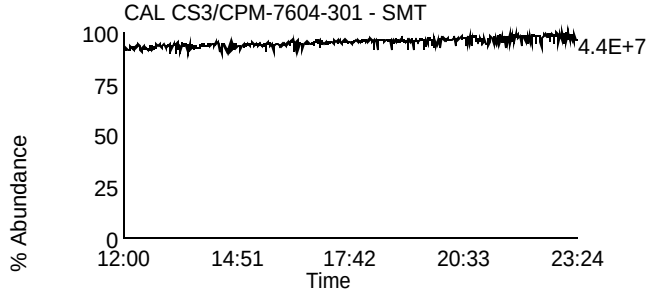
Data File: F140306A_23 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

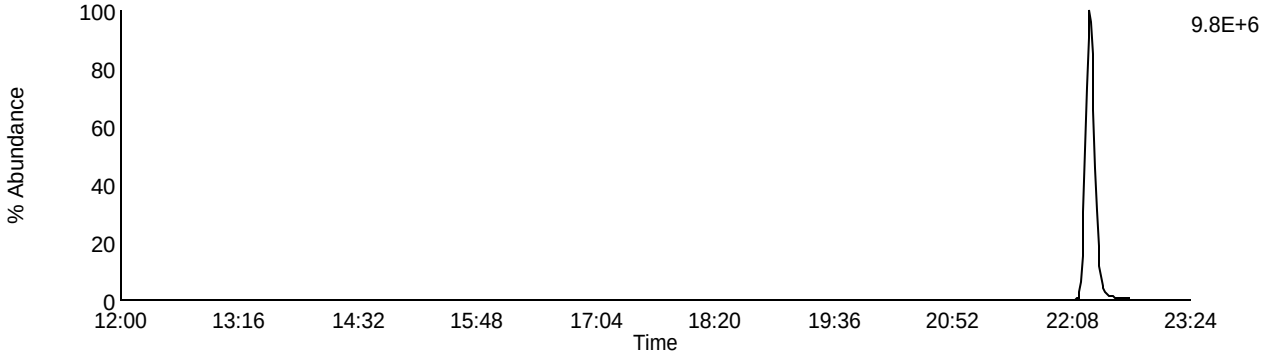


Homologue Group: Penta & Cleanup

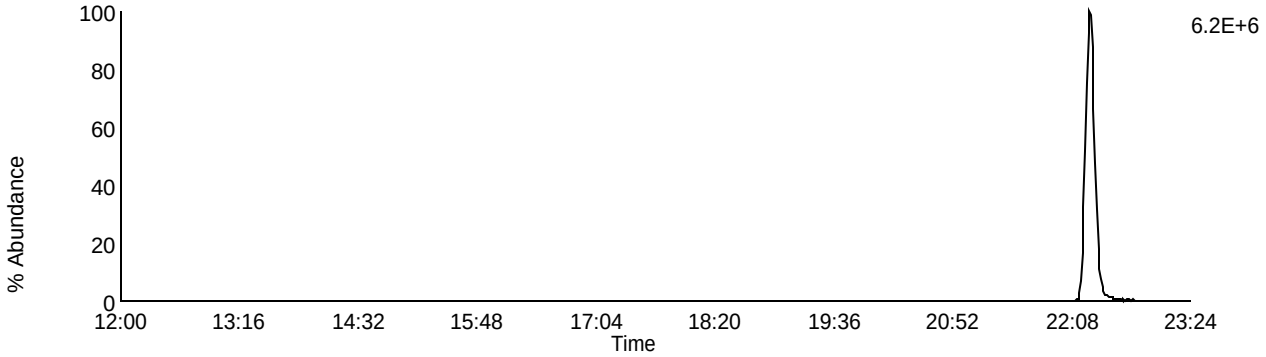
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

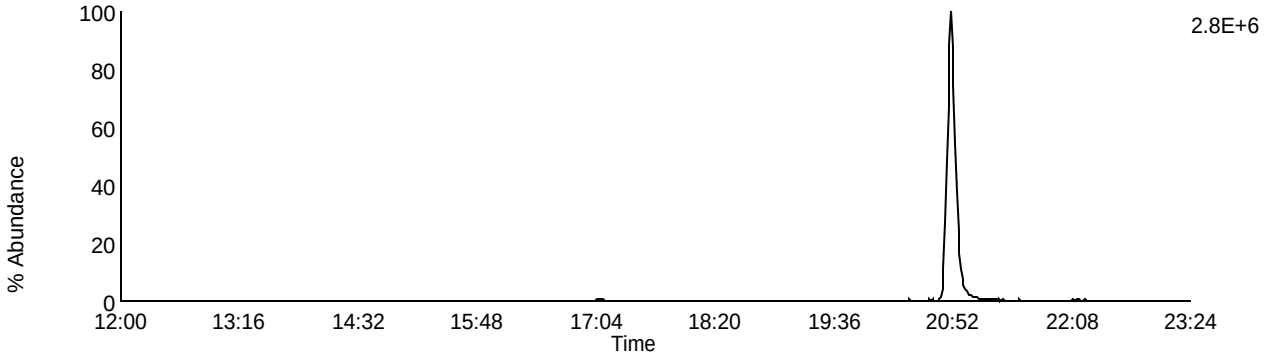
Data File: F140306A_23 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - SMT



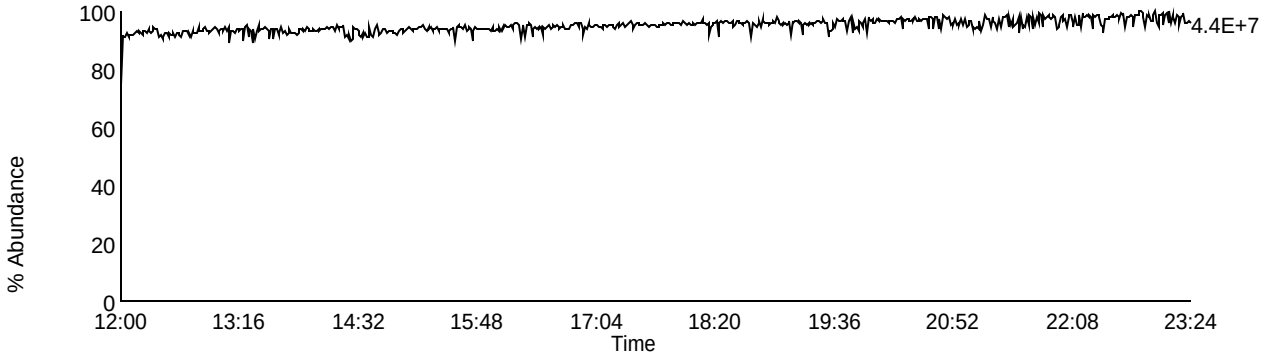
Data File: F140306A_23 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

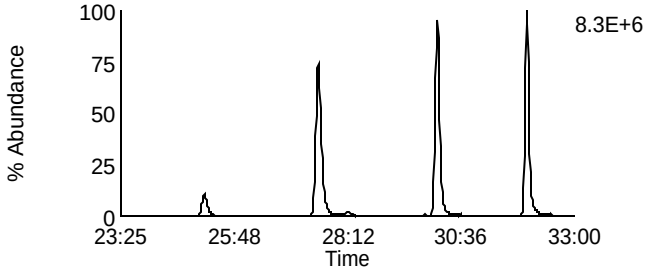


Homologue Group: Pentas

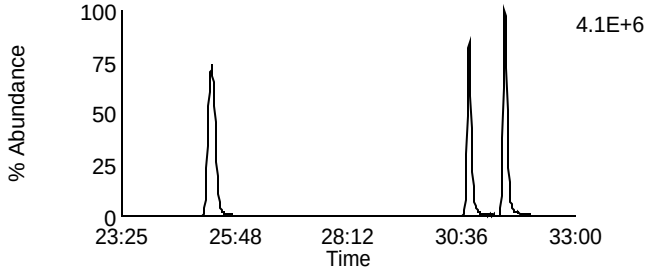
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

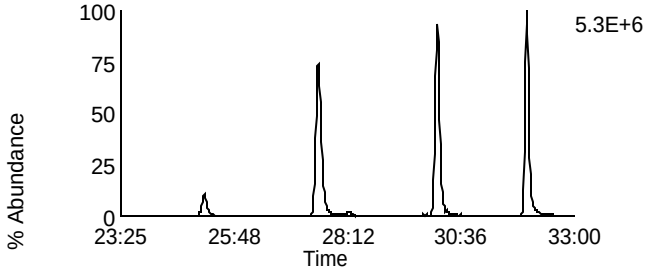
Data File: F140306A_23 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - SMT



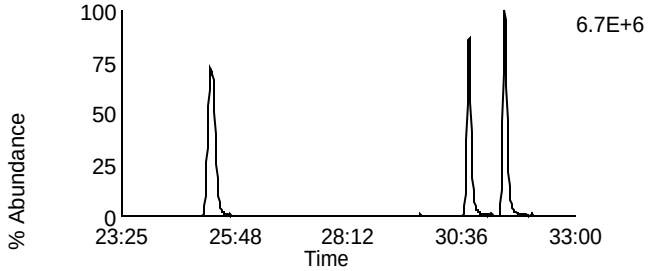
Data File: F140306A_23 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - SMT



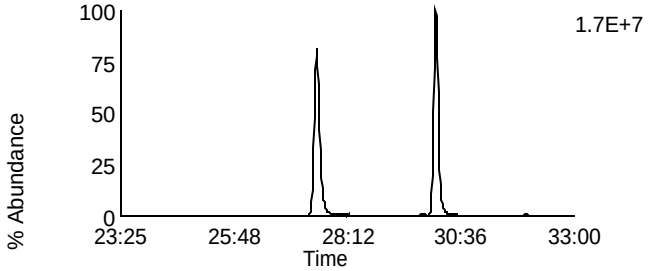
Data File: F140306A_23 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - SMT



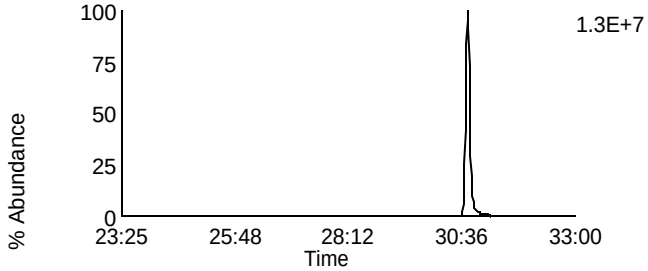
Data File: F140306A_23 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - SMT



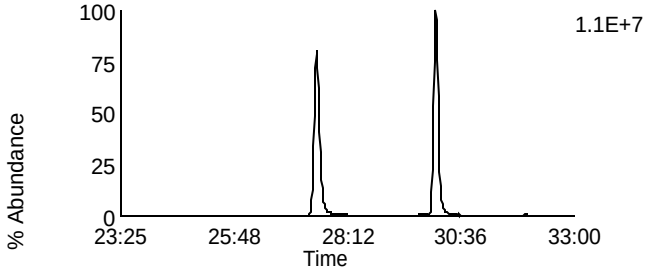
Data File: F140306A_23 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - SMT



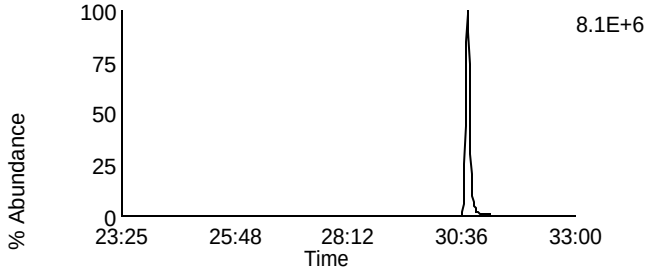
Data File: F140306A_23 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - SMT



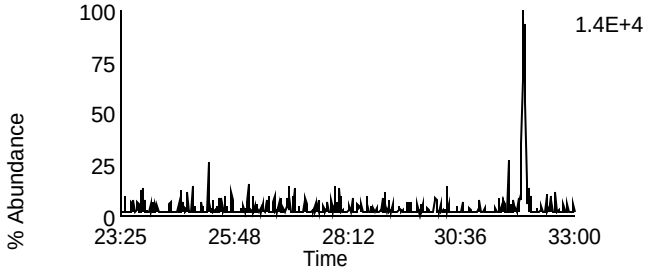
Data File: F140306A_23 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - SMT



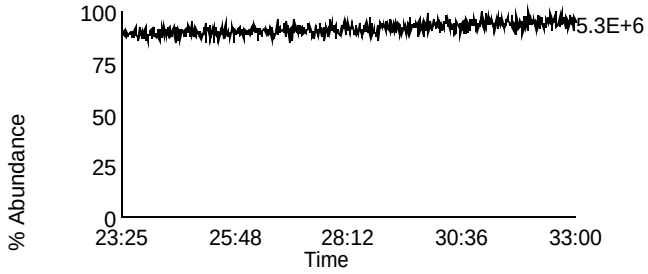
Data File: F140306A_23 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - SMT

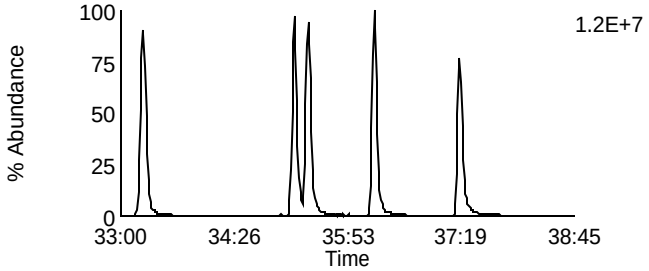


Homologue Group: Hexas

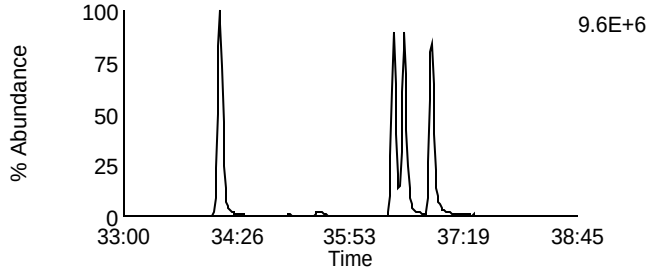
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

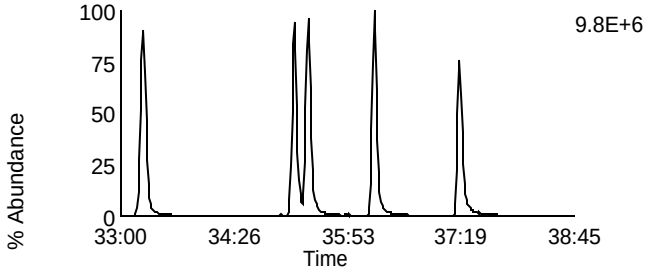
Data File: F140306A_23 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - SMT



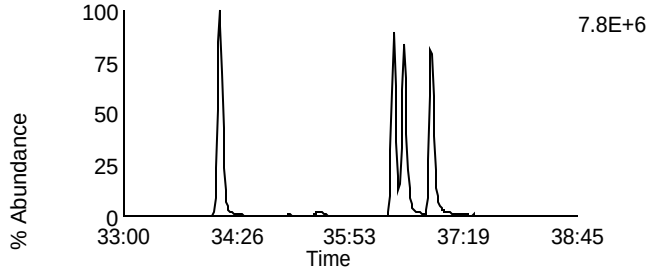
Data File: F140306A_23 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - SMT



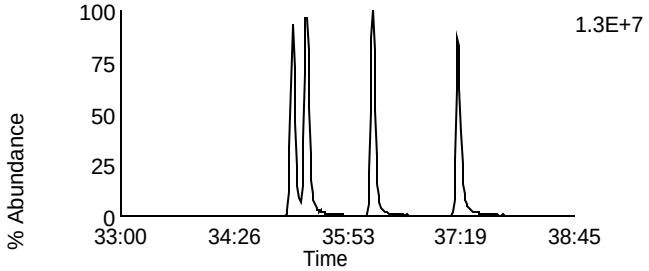
Data File: F140306A_23 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - SMT



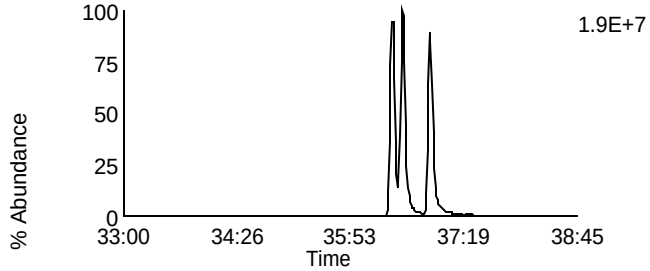
Data File: F140306A_23 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - SMT



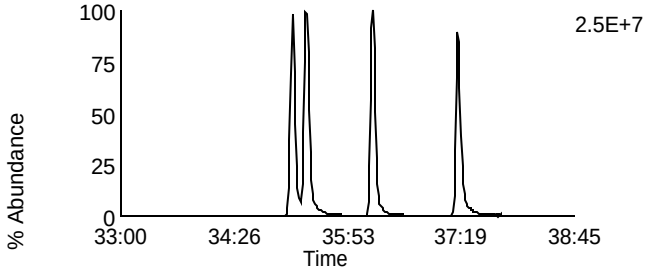
Data File: F140306A_23 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - SMT



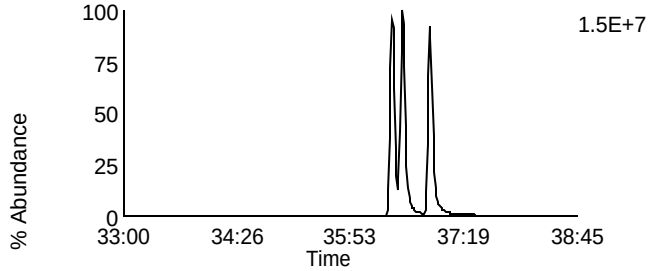
Data File: F140306A_23 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - SMT



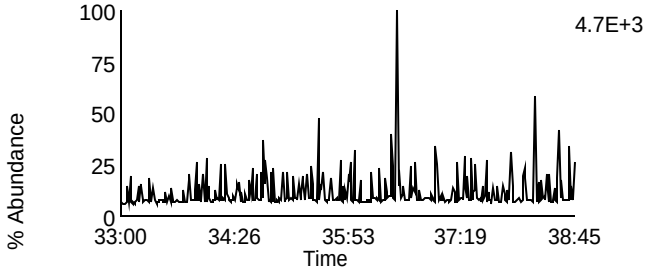
Data File: F140306A_23 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - SMT



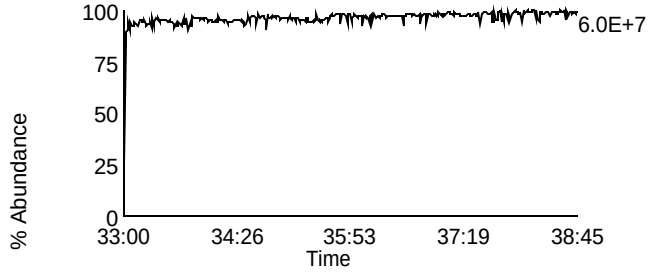
Data File: F140306A_23 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - SMT

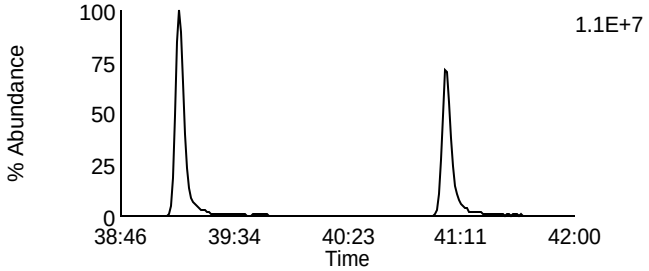


Homologue Group: Heptas

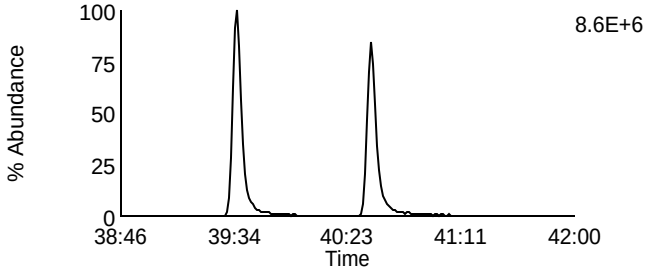
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

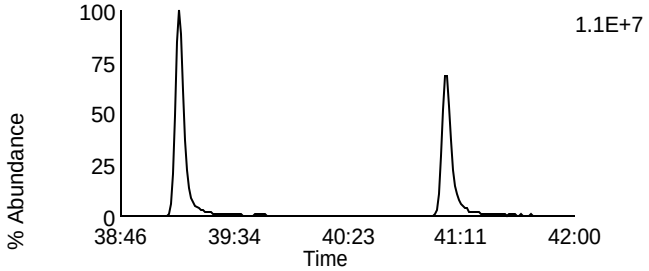
Data File: F140306A_23 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - SMT



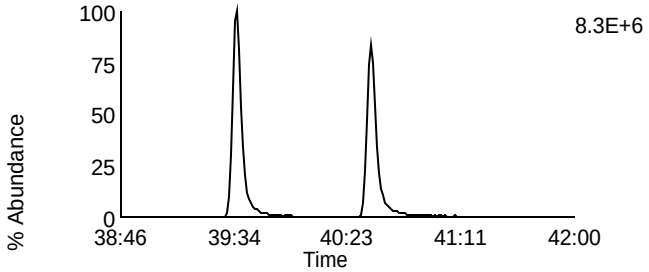
Data File: F140306A_23 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - SMT



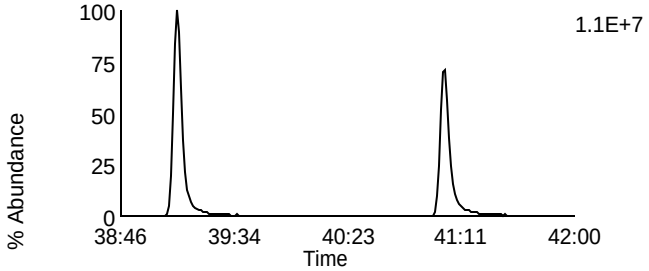
Data File: F140306A_23 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - SMT



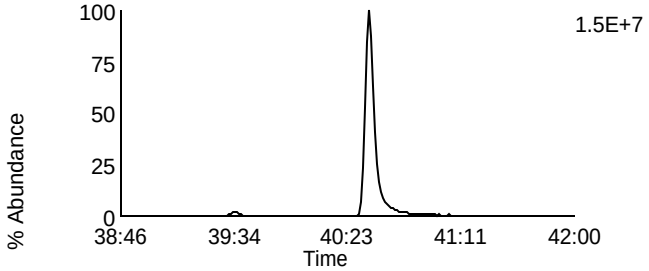
Data File: F140306A_23 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - SMT



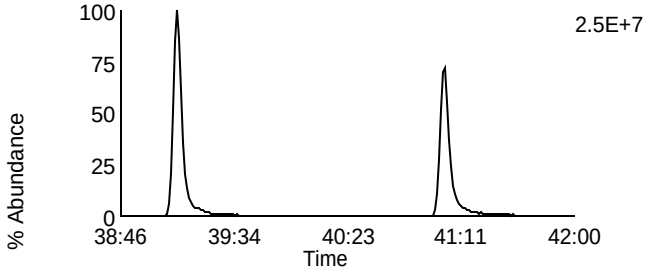
Data File: F140306A_23 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - SMT



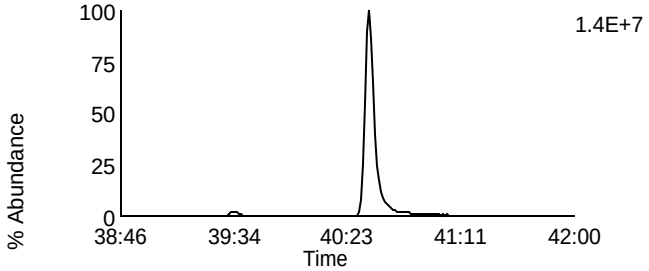
Data File: F140306A_23 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - SMT



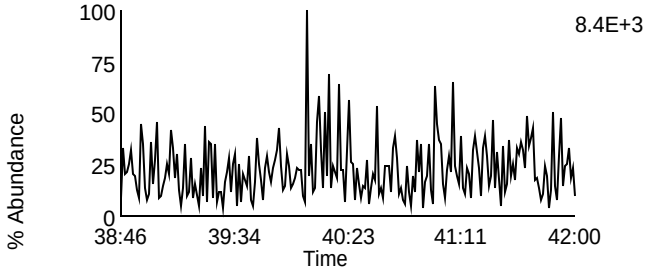
Data File: F140306A_23 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - SMT



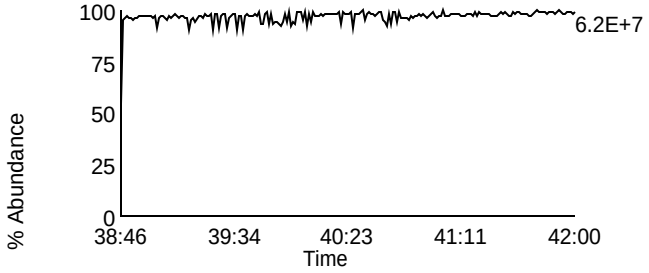
Data File: F140306A_23 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - SMT

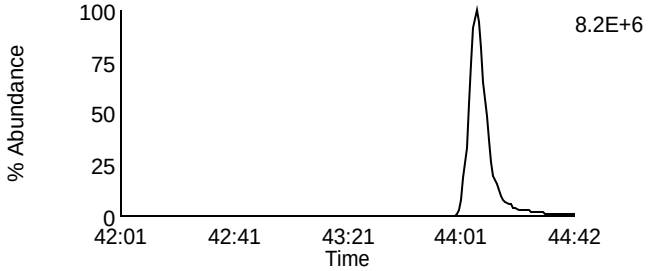


Homologue Group: Octas

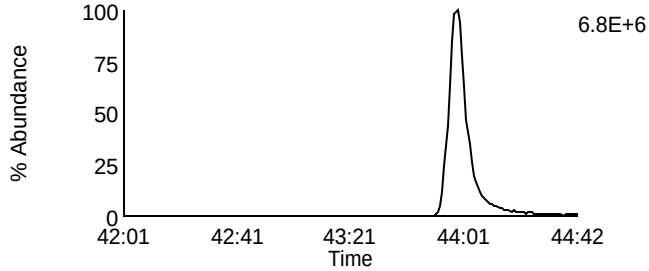
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR05 (F)

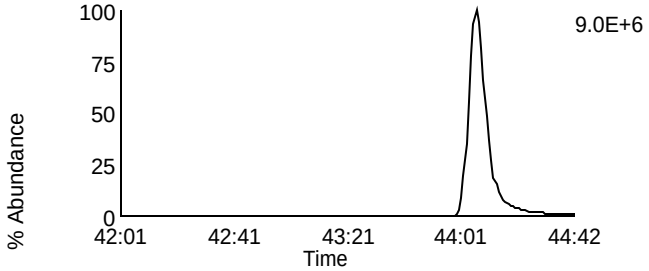
Data File: F140306A_23 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - SMT



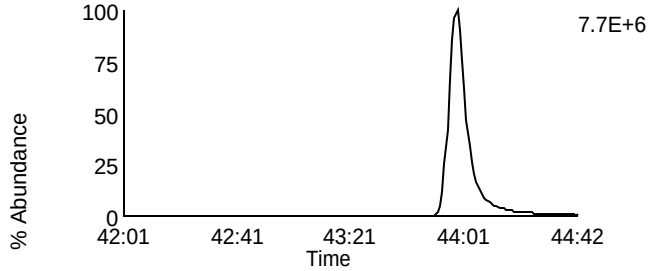
Data File: F140306A_23 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - SMT



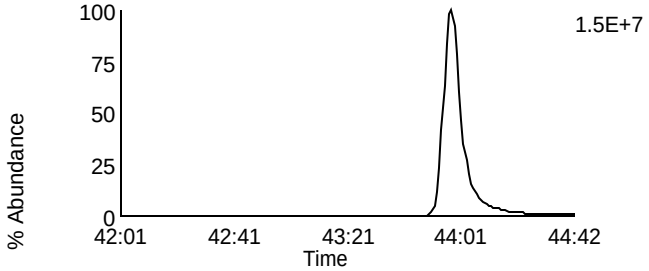
Data File: F140306A_23 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - SMT



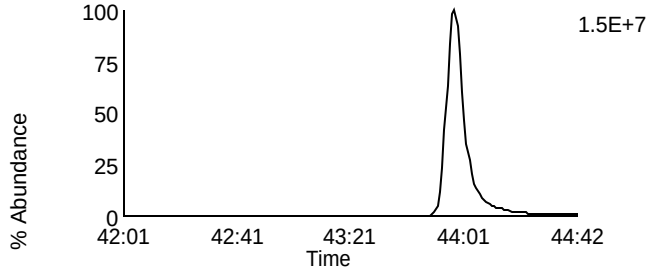
Data File: F140306A_23 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - SMT



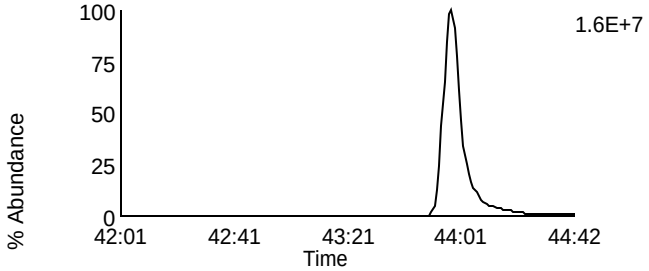
Data File: F140306A_23 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



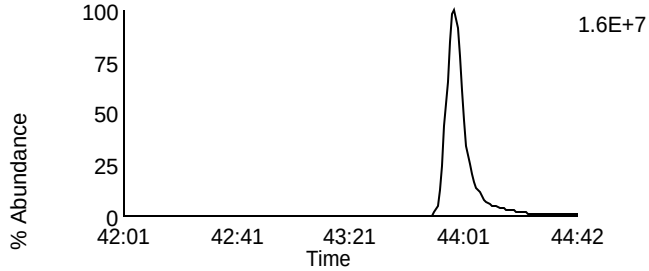
Data File: F140306A_23 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



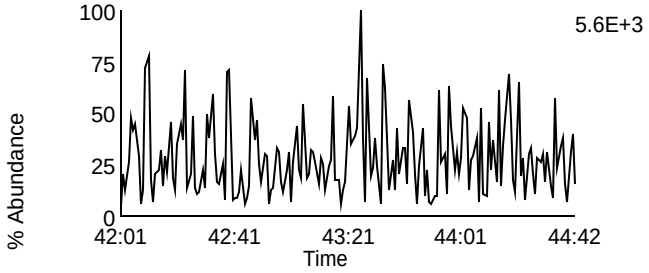
Data File: F140306A_23 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



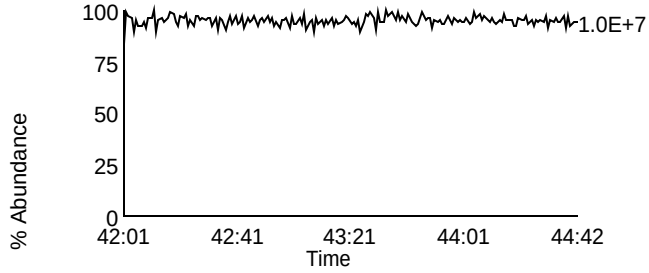
Data File: F140306A_23 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - SMT

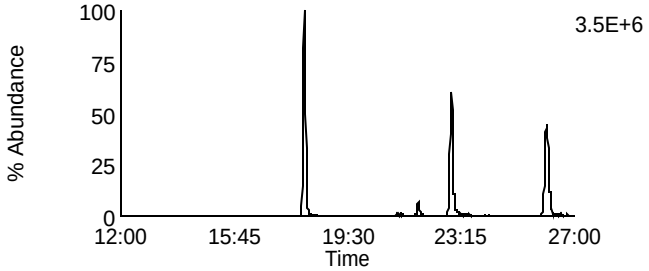


Homologue Group: Tetras

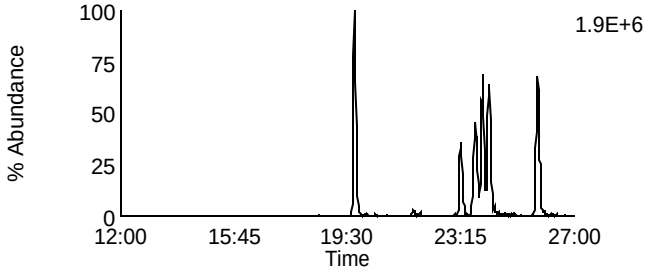
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

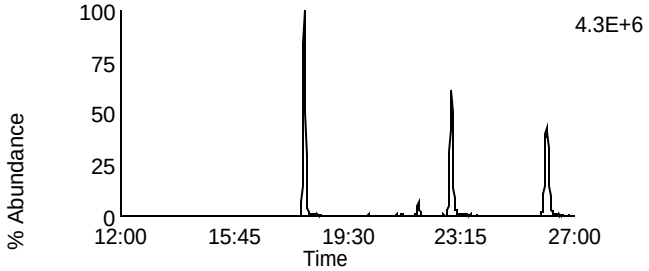
Data File: U140307A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - SMT



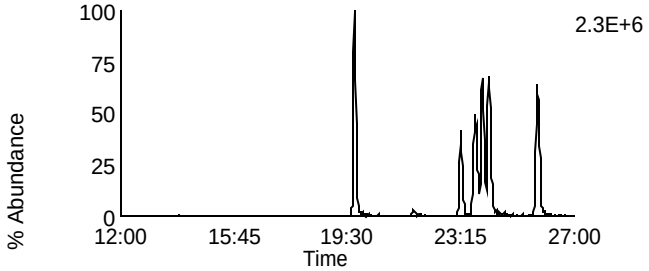
Data File: U140307A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - SMT



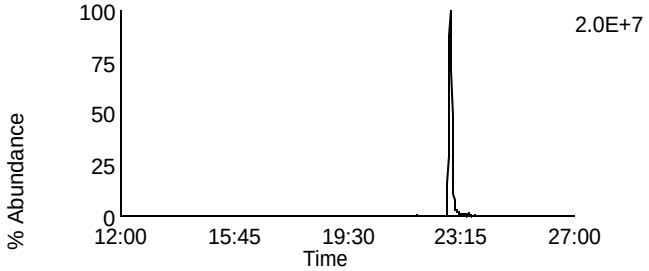
Data File: U140307A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - SMT



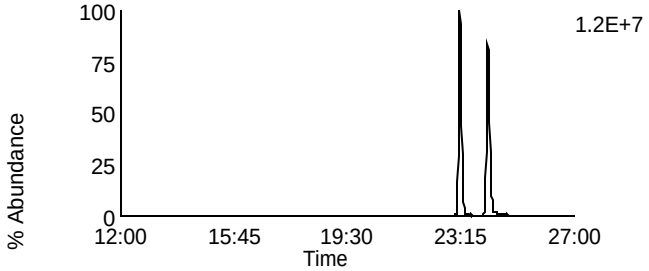
Data File: U140307A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - SMT



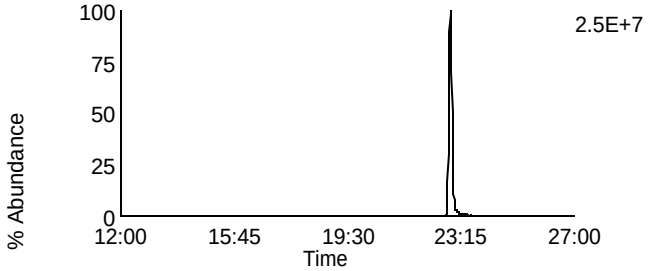
Data File: U140307A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - SMT



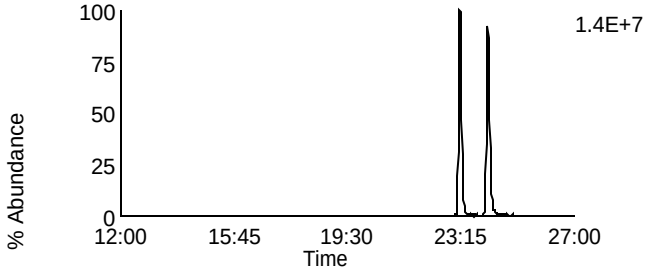
Data File: U140307A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - SMT



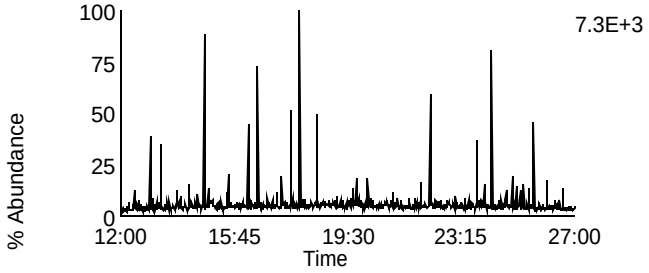
Data File: U140307A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - SMT



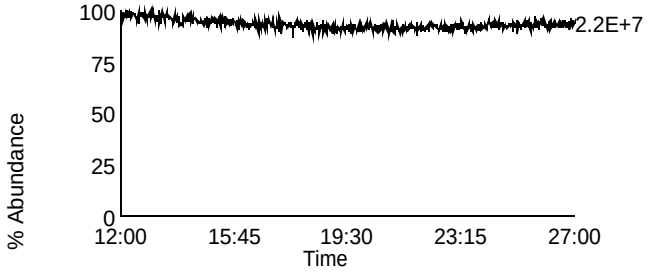
Data File: U140307A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT

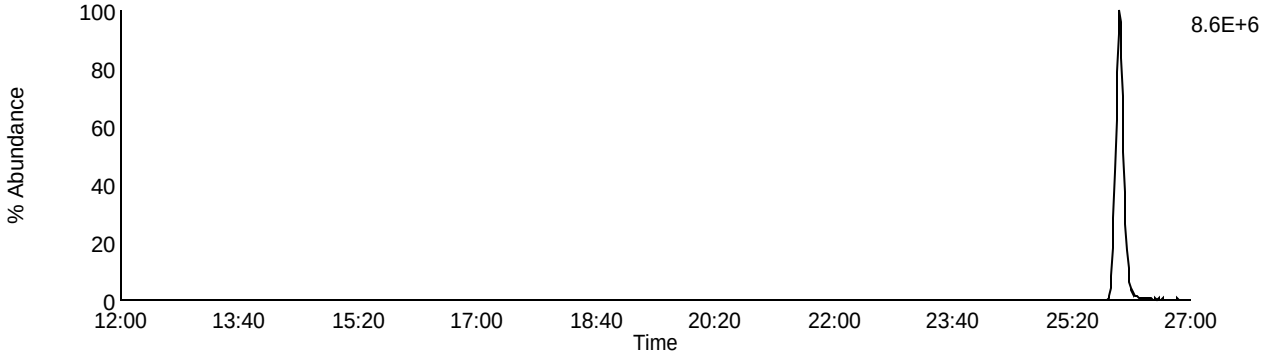


Homologue Group: Penta & Cleanup

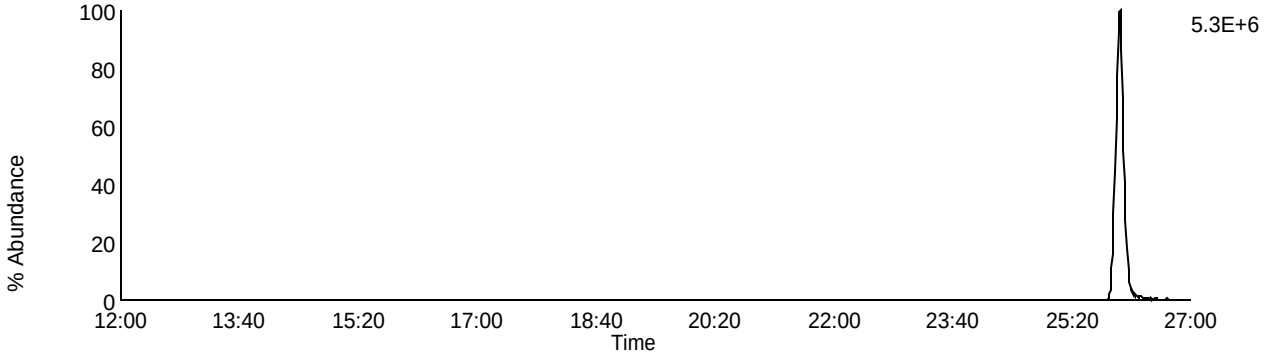
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

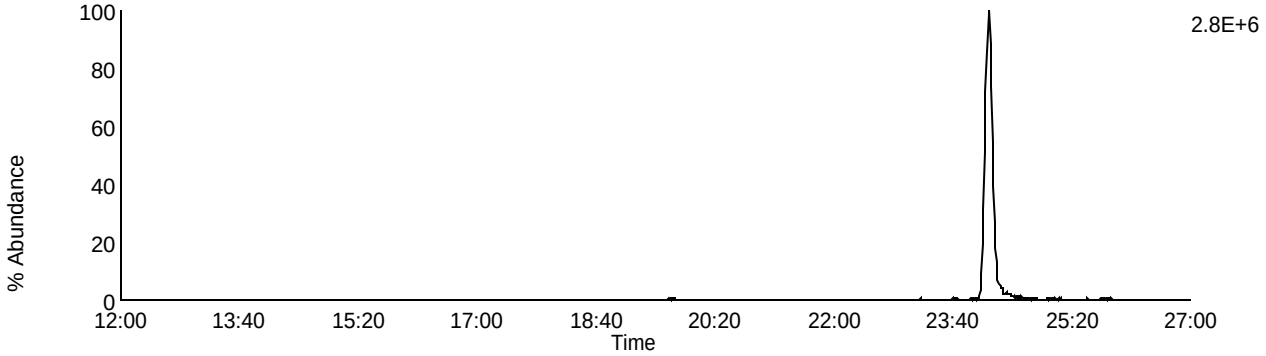
Data File: U140307A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - SMT



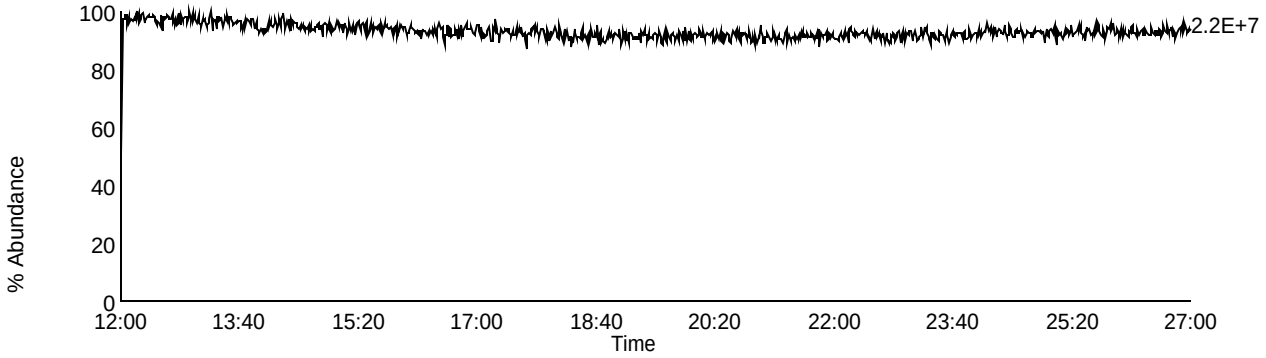
Data File: U140307A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT

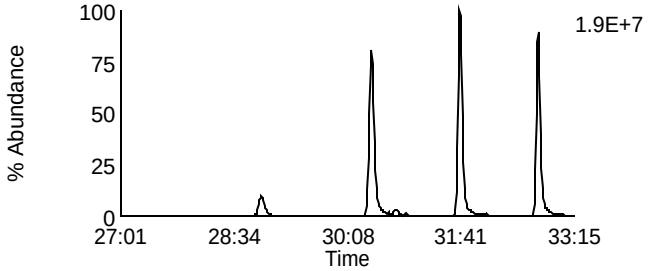


Homologue Group: Pentas

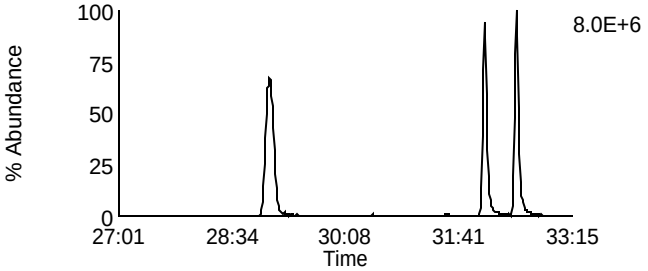
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

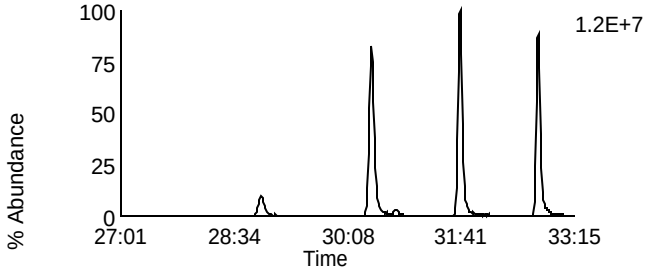
Data File: U140307A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - SMT



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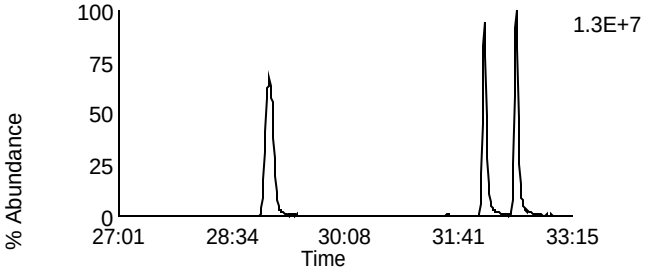
CAL CS3/CPM-7604-293 - SMT



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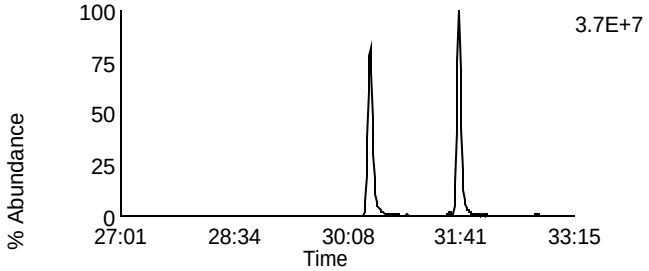
CAL CS3/CPM-7604-293 - SMT



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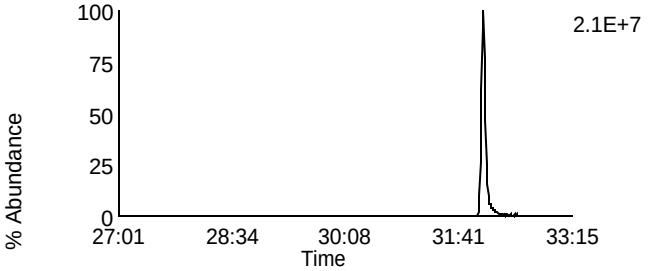
CAL CS3/CPM-7604-293 - SMT



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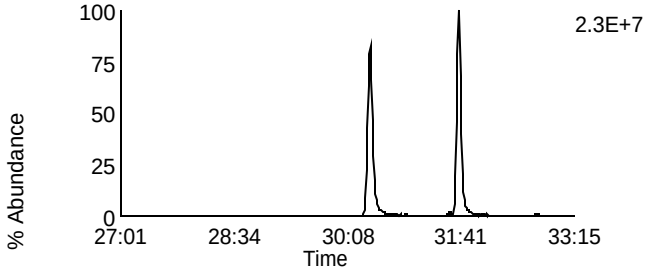
CAL CS3/CPM-7604-293 - SMT



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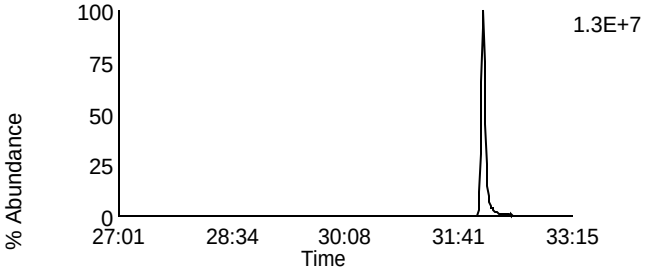
CAL CS3/CPM-7604-293 - SMT



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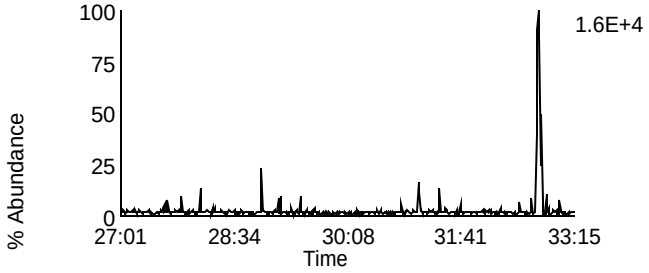
CAL CS3/CPM-7604-293 - SMT



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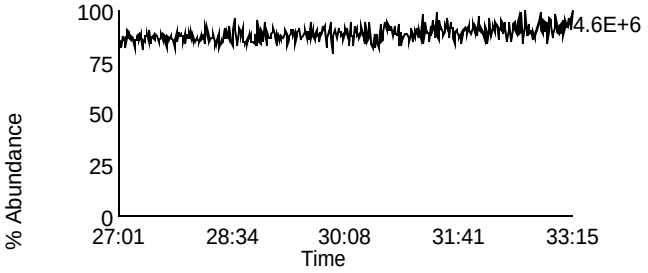

Homologue Group: Hexas

Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

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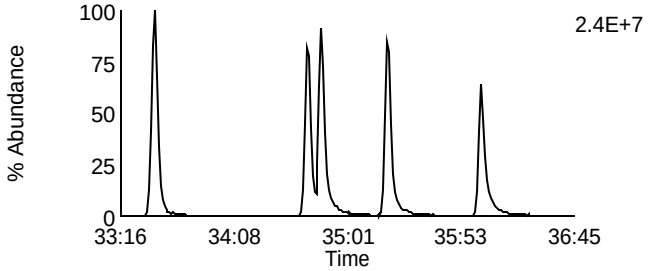
CAL CS3/CPM-7604-293 - SMT



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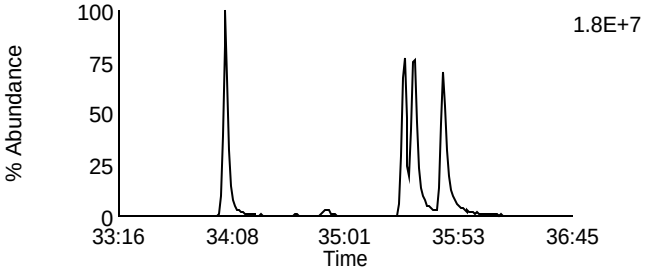

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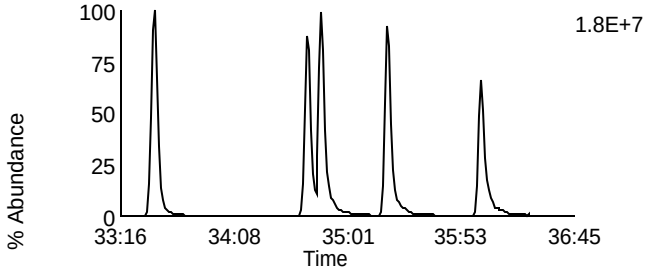
CAL CS3/CPM-7604-293 - SMT



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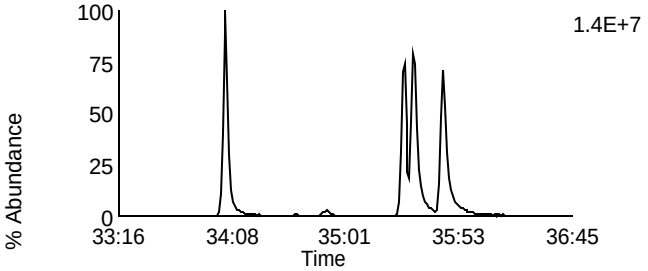
CAL CS3/CPM-7604-293 - SMT



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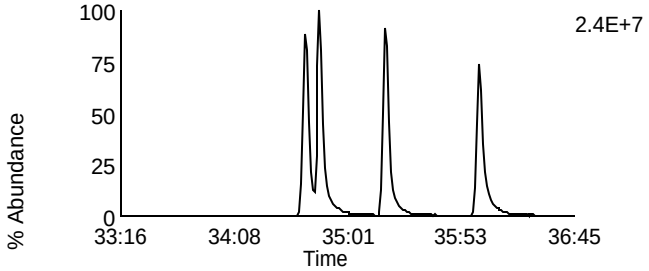
CAL CS3/CPM-7604-293 - SMT



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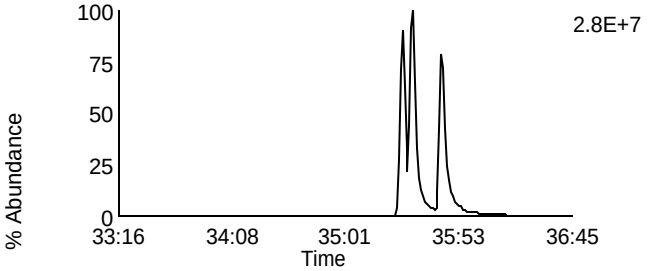
CAL CS3/CPM-7604-293 - SMT



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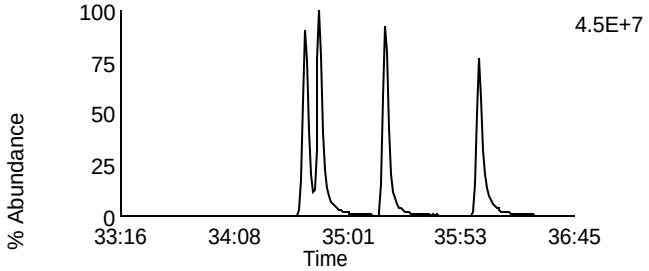
CAL CS3/CPM-7604-293 - SMT



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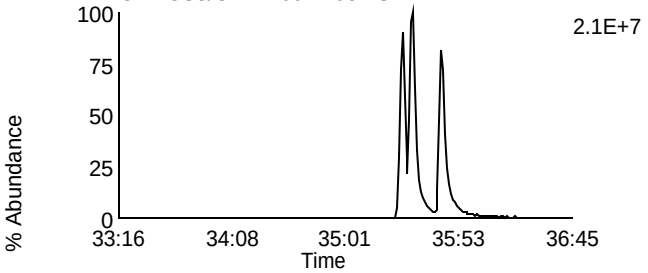
CAL CS3/CPM-7604-293 - SMT



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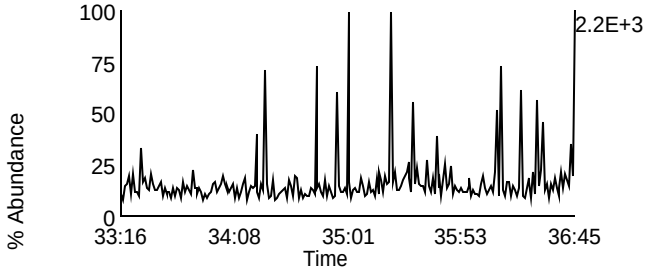
CAL CS3/CPM-7604-293 - SMT



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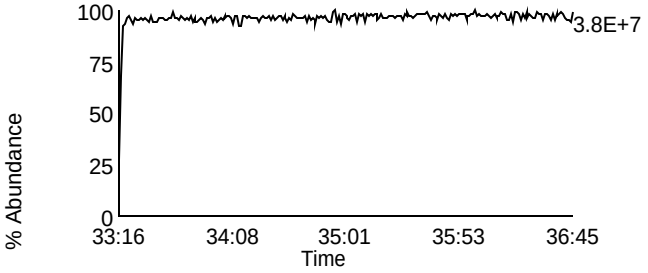
CAL CS3/CPM-7604-293 - SMT

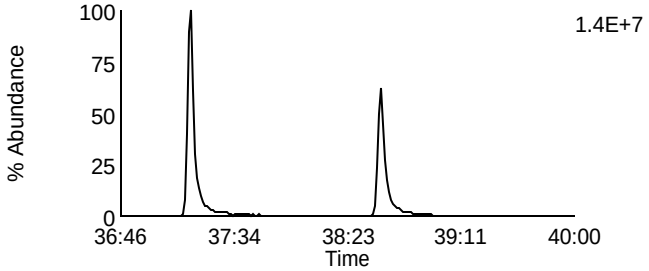


Homologue Group: Heptas

Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140307A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - SMT



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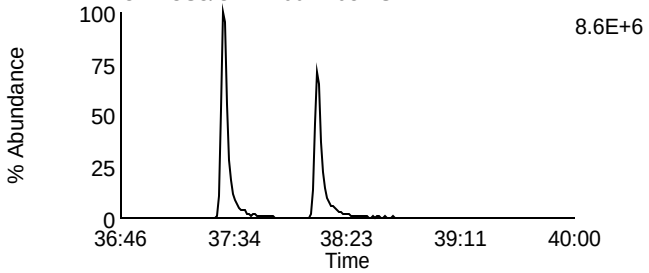

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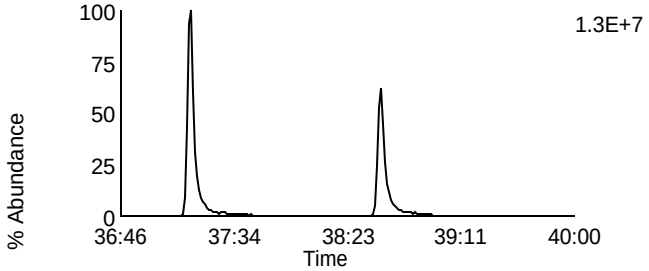
CAL CS3/CPM-7604-293 - SMT



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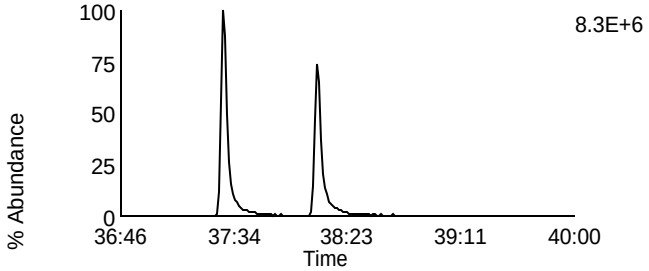
CAL CS3/CPM-7604-293 - SMT



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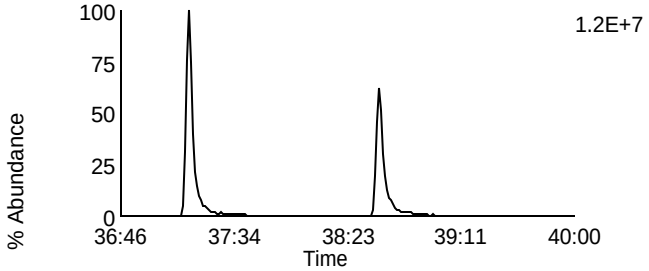
CAL CS3/CPM-7604-293 - SMT



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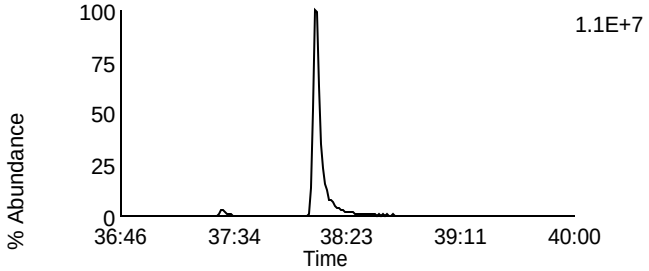
CAL CS3/CPM-7604-293 - SMT



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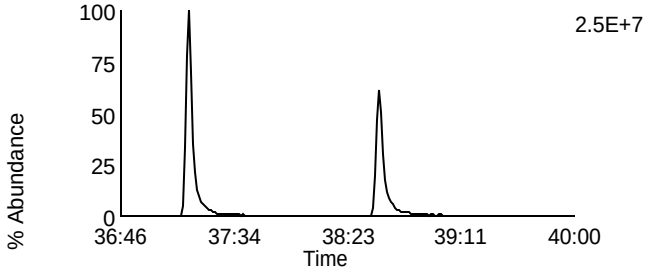
CAL CS3/CPM-7604-293 - SMT



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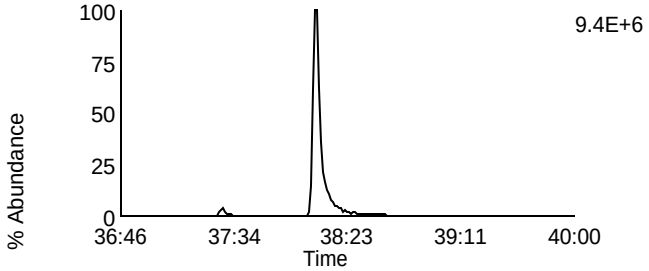
CAL CS3/CPM-7604-293 - SMT



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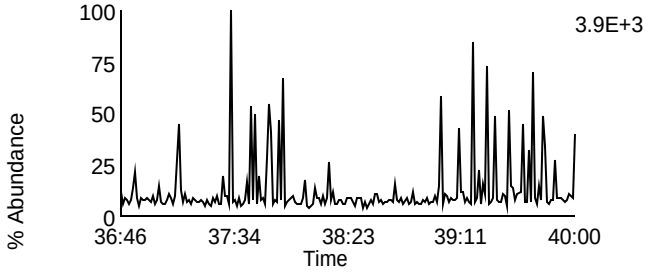
CAL CS3/CPM-7604-293 - SMT



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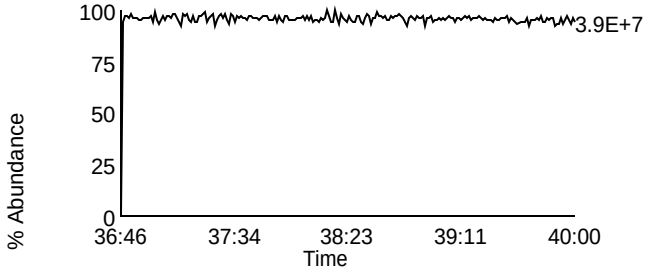
CAL CS3/CPM-7604-293 - SMT

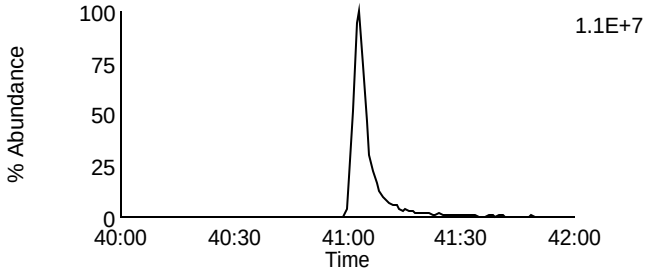


Homologue Group: Octas

Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140307A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - SMT



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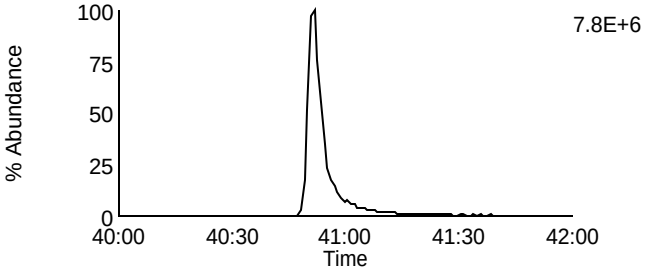

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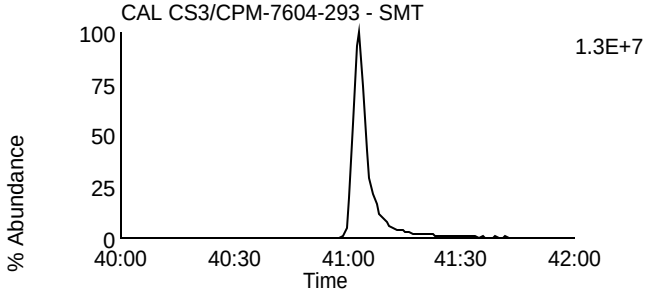

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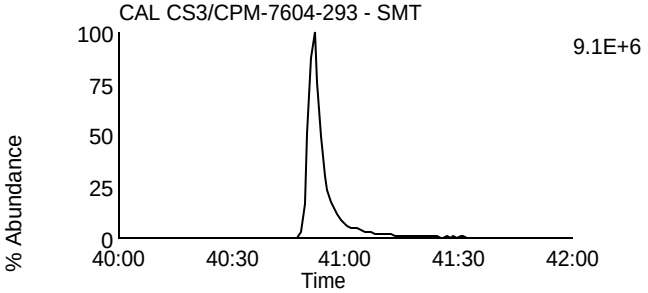

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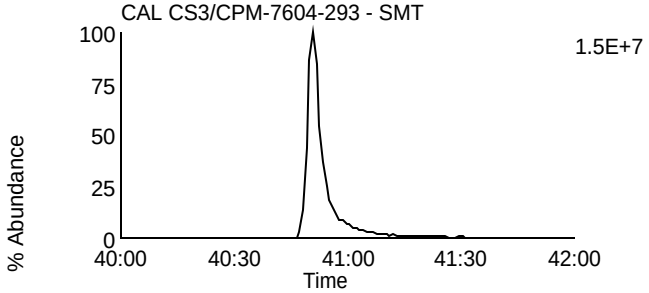

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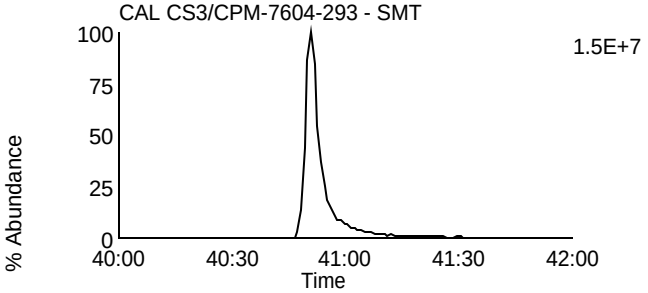
CAL CS3/CPM-7604-293 - SMT



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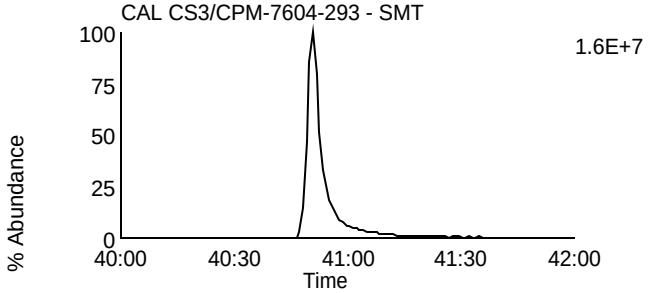
CAL CS3/CPM-7604-293 - SMT



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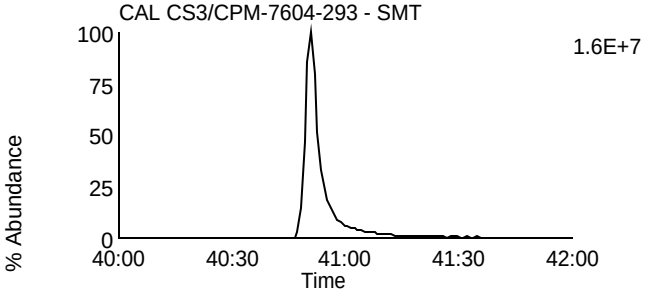
CAL CS3/CPM-7604-293 - SMT



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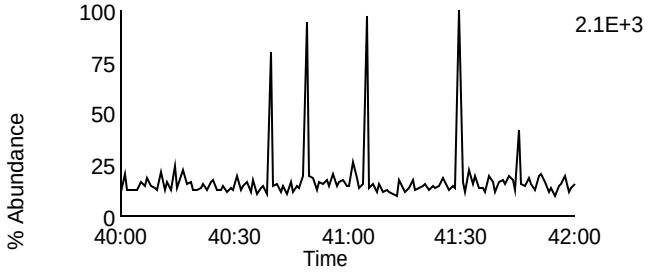
CAL CS3/CPM-7604-293 - SMT



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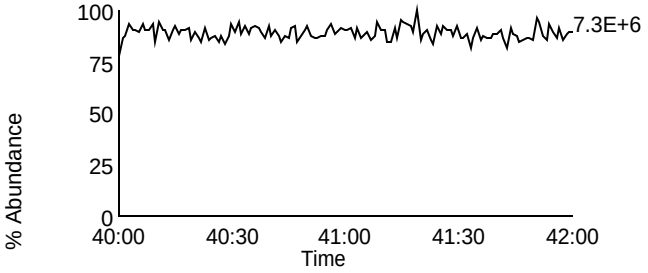

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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	

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

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

Prepared By _____ Date _____

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

Prepared By _____ Date _____

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	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140306A_05	GC Column ID	USD397111H
Analyzed	03/06/2014 10:59	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	2.15e8	2.70e8	2.80e7	3.62e7	-----	-----	0.80	
2,3,7,8-TCDF	22:50	1.12e6	1.33e6	1.68e5	1.83e5	1.831e3	8.300e2	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	23:10	1.24e8	1.53e8	1.70e7	2.10e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	24:04	1.15e8	1.46e8	1.49e7	1.86e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:06	1.48e6		2.23e5		-----	-----		
2,3,7,8-TCDD	24:05	7.49e5	9.36e5	9.37e4	1.30e5	1.929e3	3.503e3	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	30:24	2.35e8	1.49e8	4.59e7	2.91e7	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	31:38	2.39e8	1.50e8	5.51e7	3.46e7	-----	-----	1.59	
1,2,3,7,8-PeCDF	30:25	5.63e6	3.58e6	1.12e6	7.09e5	4.767e2	6.382e2	1.57	
2,3,4,7,8-PeCDF	31:39	5.95e6	3.86e6	1.42e6	9.52e5	6.320e3	1.846e3	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	31:59	1.34e8	8.43e7	3.13e7	2.02e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:01	2.35e6	3.67e6	4.63e5	8.57e5	1.265e3	2.983e3	0.64	

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	34:40	9.90e7	1.90e8	3.12e7	5.91e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:46	1.28e8	2.42e8	3.55e7	6.88e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:17	1.16e8	2.25e8	3.46e7	6.35e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:60	9.83e7	1.89e8	2.50e7	4.92e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:41	4.30e6	3.48e6	1.33e6	1.14e6	1.754e4	1.485e4	1.24	
1,2,3,6,7,8-HxCDF	34:47	5.67e6	4.45e6	1.65e6	1.20e6	1.642e4	7.402e3	1.28	
2,3,4,6,7,8-HxCDF	35:18	5.24e6	4.13e6	1.51e6	1.26e6	1.754e4	4.523e3	1.27	
1,2,3,7,8,9-HxCDF	36:01	3.76e6	3.38e6	1.02e6	9.31e5	1.319e4	4.800e3	1.11	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140306A_05	GC Column ID	USD397111H
Analyzed	03/06/2014 10:59	ICAL ID	U140306

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	35:25	1.10e8	8.49e7	3.94e7	3.09e7	-----	-----	1.29	
1,2,3,6,7,8-HxCDD-13C	35:30	1.50e8	1.19e8	4.44e7	3.58e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:44	1.36e8	1.09e8	3.46e7	2.68e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	35:26	3.11e6	2.48e6	1.14e6	1.04e6	9.648e3	1.009e4	1.25	
1,2,3,6,7,8-HxCDD	35:31	3.72e6	3.02e6	1.05e6	8.97e5	1.027e4	1.149e4	1.23	
1,2,3,7,8,9-HxCDD	35:44	3.32e6	2.89e6	9.05e5	8.56e5	9.648e3	1.149e4	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	37:13	6.95e7	1.50e8	2.09e7	4.28e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:35	5.00e7	1.11e8	1.21e7	2.78e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:14	4.21e6	4.03e6	1.25e6	1.12e6	2.482e3	2.814e2	1.04	
1,2,3,4,7,8,9-HpCDF	38:36	3.09e6	2.87e6	7.46e5	6.97e5	3.371e3	1.087e2	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	38:08	7.23e7	6.79e7	1.89e7	1.76e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:09	2.24e6	1.94e6	5.99e5	5.26e5	9.078e3	4.915e3	1.15	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:02	4.58e6	5.03e6	1.07e6	1.14e6	1.118e4	1.155e4	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.32e8	1.46e8	2.84e7	3.17e7	-----	-----	0.90	
OCDD	40:51	3.83e6	4.03e6	8.25e5	8.53e5	1.125e4	9.973e3	0.95	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140306A_04	GC Column ID	USD397111H
Analyzed	03/06/2014 10:15	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:49	1.82e8	2.28e8	2.40e7	3.07e7	-----	-----	0.80	
2,3,7,8-TCDF	22:51	3.45e6	4.70e6	4.60e5	6.92e5	-----	-----	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	23:08	1.05e8	1.32e8	1.46e7	1.92e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	24:03	1.03e8	1.30e8	1.32e7	1.61e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	24:06	5.37e6		6.90e5		-----	-----		
2,3,7,8-TCDD	24:05	2.35e6	3.06e6	2.96e5	4.33e5	-----	-----	0.77	

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	1.95e8	1.23e8	3.80e7	2.41e7	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	31:37	1.97e8	1.25e8	4.81e7	3.18e7	-----	-----	1.58	
1,2,3,7,8-PeCDF	30:24	1.89e7	1.15e7	3.76e6	2.43e6	-----	-----	1.63	
2,3,4,7,8-PeCDF	31:39	1.85e7	1.26e7	4.47e6	2.97e6	-----	-----	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	31:59	1.11e8	6.91e7	2.51e7	1.60e7	-----	-----	1.61	
1,2,3,7,8-PeCDD	32:00	7.58e6	1.23e7	1.86e6	2.89e6	-----	-----	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	34:39	8.00e7	1.55e8	2.66e7	5.02e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:46	1.03e8	1.96e8	2.74e7	5.18e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:17	8.97e7	1.72e8	2.78e7	5.20e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:60	8.15e7	1.60e8	2.20e7	4.16e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:40	1.43e7	1.17e7	4.87e6	3.94e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	34:47	1.76e7	1.45e7	4.80e6	3.92e6	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	35:17	1.63e7	1.36e7	5.28e6	4.22e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	36:01	1.34e7	1.12e7	3.57e6	3.08e6	-----	-----	1.20	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140306A_04	GC Column ID	USD397111H
Analyzed	03/06/2014 10:15	ICAL ID	U140306

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	35:24	8.82e7	6.91e7	3.15e7	2.42e7	-----	-----	1.28	
1,2,3,6,7,8-HxCDD-13C	35:30	1.27e8	1.00e8	3.58e7	2.91e7	-----	-----	1.27	
1,2,3,7,8,9-HxCDD-13C	35:43	1.08e8	8.82e7	3.01e7	2.36e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	35:25	9.94e6	7.95e6	3.53e6	2.96e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:30	1.32e7	1.05e7	3.86e6	3.16e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:44	1.16e7	9.02e6	3.18e6	2.45e6	-----	-----	1.28	

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	37:13	5.86e7	1.27e8	1.63e7	3.67e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:35	4.31e7	9.52e7	1.09e7	2.26e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:13	1.41e7	1.34e7	4.19e6	3.88e6	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:36	9.84e6	1.01e7	2.64e6	2.44e6	-----	-----	0.97	

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	38:07	6.36e7	5.84e7	1.79e7	1.67e7	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	38:08	7.55e6	6.93e6	2.03e6	1.88e6	-----	-----	1.09	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:01	1.74e7	1.79e7	3.92e6	4.02e6	-----	-----	0.97	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:49	1.20e8	1.31e8	2.44e7	2.76e7	-----	-----	0.91	
OCDD	40:50	1.27e7	1.43e7	2.77e6	3.34e6	-----	-----	0.89	

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Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140306A_03	GC Column ID	USD397111H
Analyzed	03/06/2014 09:24	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	1.63e8	2.05e8	2.40e7	2.98e7	-----	-----	0.79	
2,3,7,8-TCDF	22:51	1.59e7	2.04e7	2.36e6	3.02e6	-----	-----	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	23:09	9.36e7	1.15e8	1.39e7	1.73e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	24:03	9.27e7	1.17e8	1.26e7	1.58e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:06	2.42e7		3.26e6		-----	-----		
2,3,7,8-TCDD	24:06	1.19e7	1.51e7	1.52e6	1.96e6	-----	-----	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	30:24	1.86e8	1.18e8	3.76e7	2.40e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	31:38	1.93e8	1.21e8	4.50e7	2.91e7	-----	-----	1.60	
1,2,3,7,8-PeCDF	30:25	8.71e7	5.76e7	1.84e7	1.19e7	-----	-----	1.51	
2,3,4,7,8-PeCDF	31:39	9.28e7	5.85e7	2.19e7	1.38e7	-----	-----	1.59	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:59	1.11e8	6.93e7	2.58e7	1.65e7	-----	-----	1.61	
1,2,3,7,8-PeCDD	32:00	3.78e7	6.08e7	9.09e6	1.49e7	-----	-----	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	34:39	8.28e7	1.59e8	2.76e7	5.37e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:46	1.07e8	2.07e8	3.04e7	5.75e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:17	9.46e7	1.77e8	2.84e7	5.40e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:60	8.59e7	1.66e8	2.47e7	4.78e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:40	7.13e7	5.85e7	2.48e7	2.06e7	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	34:47	8.99e7	7.38e7	2.66e7	2.11e7	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	35:17	8.50e7	6.89e7	2.62e7	2.15e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	36:01	6.87e7	5.72e7	2.00e7	1.62e7	-----	-----	1.20	

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140306A_03	GC Column ID	USD397111H
Analyzed	03/06/2014 09:24	ICAL ID	U140306

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	35:25	9.91e7	7.89e7	3.57e7	2.78e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	35:30	1.30e8	1.03e8	3.89e7	3.02e7	-----	-----	1.27	
1,2,3,7,8,9-HxCDD-13C	35:43	1.16e8	9.32e7	3.11e7	2.47e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	35:26	5.34e7	4.26e7	1.81e7	1.40e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:30	6.27e7	5.06e7	1.84e7	1.57e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:44	6.17e7	4.93e7	1.71e7	1.35e7	-----	-----	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	37:14	6.10e7	1.32e8	1.87e7	4.06e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:35	4.64e7	1.02e8	1.28e7	2.69e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	37:14	7.22e7	6.84e7	2.07e7	2.00e7	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	38:36	5.59e7	5.40e7	1.50e7	1.38e7	-----	-----	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	38:07	6.91e7	6.38e7	1.82e7	1.77e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:08	4.00e7	3.59e7	1.11e7	9.96e6	-----	-----	1.11	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:01	8.84e7	9.72e7	1.93e7	2.21e7	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.28e8	1.40e8	2.74e7	2.98e7	-----	-----	0.91	
OCDD	40:51	6.86e7	7.57e7	1.43e7	1.60e7	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140306A_07	GC Column ID	USD397111H
Analyzed	03/06/2014 13:29	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:51	1.29e8	1.63e8	1.73e7	2.17e7	-----	-----	0.79	
2,3,7,8-TCDF	22:52	5.13e7	6.64e7	7.13e6	9.10e6	-----	-----	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	23:10	7.58e7	9.51e7	1.07e7	1.29e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	24:04	7.13e7	9.12e7	9.23e6	1.16e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	24:07	7.84e7		9.94e6		-----	-----		
2,3,7,8-TCDD	24:07	3.51e7	4.23e7	4.45e6	5.35e6	-----	-----	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	30:24	1.51e8	9.65e7	2.78e7	1.78e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:38	1.57e8	9.74e7	3.46e7	2.16e7	-----	-----	1.61	
1,2,3,7,8-PeCDF	30:26	2.89e8	1.85e8	5.77e7	3.63e7	-----	-----	1.56	
2,3,4,7,8-PeCDF	31:40	3.07e8	2.00e8	7.02e7	4.57e7	-----	-----	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	32:00	8.53e7	5.22e7	1.92e7	1.20e7	-----	-----	1.64	
1,2,3,7,8-PeCDD	32:01	1.19e8	1.88e8	2.67e7	4.42e7	-----	-----	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	34:40	6.14e7	1.17e8	1.99e7	3.77e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:47	8.65e7	1.64e8	2.28e7	4.30e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:17	7.18e7	1.38e8	1.99e7	3.81e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:01	6.57e7	1.25e8	1.59e7	3.05e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	34:41	2.17e8	1.76e8	7.12e7	5.70e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:48	3.06e8	2.48e8	8.01e7	6.38e7	-----	-----	1.23	
2,3,4,6,7,8-HxCDF	35:18	2.70e8	2.19e8	7.80e7	6.42e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	36:02	2.22e8	1.78e8	5.28e7	4.35e7	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140306A_07	GC Column ID	USD397111H
Analyzed	03/06/2014 13:29	ICAL ID	U140306

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	35:26	6.98e7	5.54e7	2.30e7	1.77e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	35:31	9.99e7	7.61e7	2.62e7	2.00e7	-----	-----	1.31	
1,2,3,7,8,9-HxCDD-13C	35:44	8.72e7	6.85e7	2.09e7	1.64e7	-----	-----	1.27	
1,2,3,4,7,8-HxCDD	35:27	1.57e8	1.15e8	4.94e7	3.94e7	-----	-----	1.36	
1,2,3,6,7,8-HxCDD	35:31	1.98e8	1.69e8	5.53e7	4.46e7	-----	-----	1.17	
1,2,3,7,8,9-HxCDD	35:45	1.87e8	1.47e8	4.42e7	3.54e7	-----	-----	1.27	

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	37:14	4.41e7	9.55e7	1.11e7	2.45e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:36	3.39e7	7.21e7	7.67e6	1.74e7	-----	-----	0.47	
1,2,3,4,6,7,8-HpCDF	37:15	2.12e8	1.96e8	5.28e7	4.94e7	-----	-----	1.08	
1,2,3,4,7,8,9-HpCDF	38:37	1.58e8	1.50e8	3.62e7	3.44e7	-----	-----	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	38:08	4.50e7	4.22e7	1.06e7	1.04e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	38:09	1.11e8	1.01e8	2.63e7	2.47e7	-----	-----	1.09	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:02	2.94e8	3.19e8	5.58e7	6.07e7	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	8.87e7	1.03e8	1.70e7	1.90e7	-----	-----	0.86	
OCDD	40:52	2.01e8	2.31e8	3.70e7	4.16e7	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140306A_06	GC Column ID	USD397111H
Analyzed	03/06/2014 12:45	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	1.38e8	1.72e8	1.84e7	2.37e7	-----	-----	0.80	
2,3,7,8-TCDF	22:52	2.75e8	3.50e8	3.68e7	4.77e7	-----	-----	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	23:09	7.87e7	9.62e7	1.10e7	1.36e7	-----	-----	0.82	
2,3,7,8-TCDD-13C	24:04	7.83e7	9.89e7	9.96e6	1.28e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:06	4.23e8		5.44e7		-----	-----		
2,3,7,8-TCDD	24:07	1.86e8	2.33e8	2.41e7	2.98e7	-----	-----	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	30:25	1.69e8	1.07e8	3.13e7	2.00e7	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	31:38	1.76e8	1.13e8	4.01e7	2.53e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	30:25	1.67e9	1.08e9	3.36e8	2.18e8	-----	-----	1.55	
2,3,4,7,8-PeCDF	31:39	1.81e9	1.17e9	4.09e8	2.66e8	-----	-----	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	31:59	9.90e7	6.09e7	2.13e7	1.35e7	-----	-----	1.62	
1,2,3,7,8-PeCDD	32:01	7.11e8	1.12e9	1.60e8	2.57e8	-----	-----	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	34:40	7.22e7	1.37e8	2.15e7	4.02e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	34:46	1.04e8	1.99e8	2.50e7	4.85e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:17	8.64e7	1.64e8	2.36e7	4.42e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	36:01	8.03e7	1.54e8	1.75e7	3.33e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:41	1.30e9	1.05e9	4.07e8	3.21e8	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:47	1.81e9	1.45e9	4.55e8	3.69e8	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	35:18	1.62e9	1.31e9	4.49e8	3.61e8	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	36:01	1.36e9	1.06e9	3.05e8	2.48e8	-----	-----	1.29	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140306A_06	GC Column ID	USD397111H
Analyzed	03/06/2014 12:45	ICAL ID	U140306

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	35:25	7.82e7	6.16e7	2.66e7	2.14e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	35:30	1.26e8	9.96e7	3.17e7	2.59e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:44	1.08e8	8.32e7	2.40e7	1.83e7	-----	-----	1.30	
1,2,3,4,7,8-HxCDD	35:26	8.81e8	7.02e8	3.04e8	2.41e8	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:31	1.25e9	9.93e8	3.35e8	2.64e8	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	35:45	1.11e9	9.23e8	2.43e8	1.98e8	-----	-----	1.20	

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	37:13	5.13e7	1.14e8	1.28e7	2.94e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:35	4.11e7	8.87e7	8.55e6	1.84e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	37:14	1.26e9	1.20e9	3.35e8	3.21e8	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:36	9.90e8	9.39e8	2.15e8	2.04e8	-----	-----	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	38:08	5.55e7	5.26e7	1.27e7	1.19e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:09	6.53e8	6.08e8	1.47e8	1.35e8	-----	-----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:02	1.84e9	2.04e9	3.62e8	3.93e8	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	1.18e8	1.23e8	2.07e7	2.23e7	-----	-----	0.96	
OCDD	40:51	1.31e9	1.45e9	2.25e8	2.51e8	-----	-----	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-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140227B_01	GC Column ID	USD331524H
Analyzed	02/27/2014 13:35	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	20:24	2.00e8	2.57e8	2.82e7	3.60e7	-----	-----	0.78	
2,3,7,8-TCDF	20:25	1.74e7	2.32e7	2.44e6	3.25e6	-----	-----	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	20:33	1.54e8	1.92e8	2.22e7	2.79e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	21:25	1.53e8	1.96e8	2.00e7	2.58e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	21:27	3.74e7		4.98e6		-----	-----		
2,3,7,8-TCDD	21:27	1.51e7	1.93e7	1.90e6	2.46e6	-----	-----	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	28:22	2.39e8	1.53e8	2.35e7	1.48e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	30:39	2.39e8	1.52e8	3.19e7	2.01e7	-----	-----	1.57	
1,2,3,7,8-PeCDF	28:25	1.12e8	7.18e7	1.09e7	6.85e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	30:40	1.12e8	7.37e7	1.52e7	9.98e6	-----	-----	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	31:14	1.75e8	1.11e8	2.43e7	1.56e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:16	5.11e7	8.35e7	7.42e6	1.17e7	-----	-----	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	35:24	1.10e8	2.12e8	2.43e7	4.54e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:33	1.31e8	2.54e8	2.45e7	4.68e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	36:20	1.16e8	2.21e8	2.50e7	4.71e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:21	1.21e8	2.28e8	2.41e7	4.63e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:25	9.85e7	7.91e7	2.15e7	1.71e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	35:35	1.16e8	9.31e7	2.18e7	1.73e7	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	36:22	1.08e8	8.66e7	2.27e7	1.81e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	37:22	9.61e7	7.72e7	1.94e7	1.57e7	-----	-----	1.25	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140227B_01	GC Column ID	USD331524H
Analyzed	02/27/2014 13:35	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	36:31	1.58e8	1.26e8	3.78e7	3.01e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	36:39	1.92e8	1.57e8	4.11e7	3.35e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	36:59	1.78e8	1.45e8	3.58e7	2.85e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	36:33	7.58e7	6.08e7	1.76e7	1.45e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	36:40	8.89e7	7.17e7	1.87e7	1.50e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	36:60	8.49e7	6.96e7	1.71e7	1.37e7	-----	-----	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	39:08	1.04e8	2.35e8	2.18e7	4.80e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	40:50	8.89e7	2.00e8	2.06e7	4.51e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	39:09	1.10e8	1.06e8	2.26e7	2.24e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	40:51	9.28e7	9.01e7	2.12e7	2.04e7	-----	-----	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	40:20	1.57e8	1.48e8	3.49e7	3.35e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	40:21	8.25e7	7.86e7	1.83e7	1.76e7	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:29	1.31e8	1.48e8	2.37e7	2.61e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:17	2.59e8	2.91e8	4.67e7	5.33e7	-----	-----	0.89	
OCDD	43:18	1.24e8	1.40e8	2.30e7	2.68e7	-----	-----	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-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140228B_01	GC Column ID	USD331524H
Analyzed	02/28/2014 10:48	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	20:24	1.07e7	1.36e7	1.52e6	1.92e6	-----	-----	0.79	
2,3,7,8-TCDF	20:26	9.06e5	1.11e6	1.23e5	1.64e5	-----	-----	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	20:35	7.45e6	9.66e6	1.09e6	1.48e6	-----	-----	0.77	
2,3,7,8-TCDD-13C	21:27	6.89e6	8.88e6	9.32e5	1.15e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	21:28	1.63e6		2.28e5		-----	-----		
2,3,7,8-TCDD	21:29	6.44e5	8.12e5	9.19e4	1.14e5	-----	-----	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	28:26	1.16e7	7.25e6	1.19e6	7.38e5	-----	-----	1.61	
2,3,4,7,8-PeCDF-13C	30:44	1.13e7	7.01e6	1.55e6	9.80e5	-----	-----	1.61	
1,2,3,7,8-PeCDF	28:27	5.26e6	3.31e6	5.32e5	3.31e5	-----	-----	1.59	
2,3,4,7,8-PeCDF	30:45	5.39e6	3.32e6	8.48e5	4.69e5	-----	-----	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	31:19	7.15e6	4.41e6	1.06e6	6.89e5	-----	-----	1.62	
1,2,3,7,8-PeCDD	31:21	1.97e6	3.11e6	2.93e5	4.66e5	-----	-----	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	35:32	5.32e6	1.03e7	1.18e6	2.19e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:42	6.47e6	1.23e7	1.30e6	2.50e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	36:30	5.49e6	1.06e7	1.21e6	2.29e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:34	5.15e6	9.95e6	1.07e6	2.11e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:33	4.90e6	3.71e6	1.08e6	7.97e5	-----	-----	1.32	
1,2,3,6,7,8-HxCDF	35:44	5.59e6	4.32e6	1.04e6	8.72e5	-----	-----	1.30	
2,3,4,6,7,8-HxCDF	36:32	5.31e6	4.03e6	1.15e6	8.80e5	-----	-----	1.32	
1,2,3,7,8,9-HxCDF	37:34	4.48e6	3.48e6	9.72e5	7.71e5	-----	-----	1.29	

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Client ID		Injected By	CVS
Lab ID	CS3/CPM-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140228B_01	GC Column ID	USD331524H
Analyzed	02/28/2014 10:48	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	36:43	6.91e6	5.50e6	1.70e6	1.32e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	36:49	8.79e6	6.63e6	1.81e6	1.45e6	-----	-----	1.33	
1,2,3,7,8,9-HxCDD-13C	37:10	7.32e6	5.61e6	1.55e6	1.24e6	-----	-----	1.31	
1,2,3,4,7,8-HxCDD	36:43	3.21e6	2.37e6	8.08e5	6.18e5	-----	-----	1.35	
1,2,3,6,7,8-HxCDD	36:50	3.76e6	3.17e6	7.98e5	6.61e5	-----	-----	1.19	
1,2,3,7,8,9-HxCDD	37:11	3.24e6	2.58e6	7.13e5	5.88e5	-----	-----	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	39:25	4.41e6	1.06e7	9.89e5	2.23e6	-----	-----	0.42	
1,2,3,4,7,8,9-HpCDF-13C	41:13	3.52e6	8.12e6	7.46e5	1.69e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	39:25	4.92e6	4.77e6	1.05e6	9.81e5	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:14	3.83e6	3.73e6	8.40e5	7.78e5	-----	-----	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	40:42	6.20e6	5.75e6	1.28e6	1.24e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	40:43	3.15e6	2.90e6	6.63e5	6.16e5	-----	-----	1.09	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:10	5.58e6	6.10e6	8.97e5	9.79e5	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:59	1.06e7	1.19e7	1.63e6	1.81e6	-----	-----	0.90	
OCDD	44:01	4.73e6	5.55e6	7.54e5	8.53e5	-----	-----	0.85	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140301B_01	GC Column ID	USD331524H
Analyzed	03/01/2014 12:14	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	20:20	1.32e8	1.74e8	1.75e7	2.27e7	-----	-----	0.76	
2,3,7,8-TCDF	20:22	1.10e7	1.47e7	1.42e6	1.94e6	-----	-----	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	20:28	1.02e8	1.33e8	1.42e7	1.83e7	-----	-----	0.76	
2,3,7,8-TCDD-13C	21:21	1.03e8	1.34e8	1.27e7	1.62e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	21:23	2.47e7		3.06e6		-----	-----		
2,3,7,8-TCDD	21:23	9.80e6	1.26e7	1.18e6	1.55e6	-----	-----	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	28:17	1.48e8	9.68e7	1.29e7	8.27e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	30:38	1.47e8	9.51e7	1.79e7	1.15e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	28:20	6.54e7	4.28e7	5.72e6	3.81e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	30:39	6.56e7	4.34e7	7.77e6	5.30e6	-----	-----	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	31:13	1.09e8	7.03e7	1.37e7	8.93e6	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:16	2.97e7	4.90e7	3.76e6	6.12e6	-----	-----	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	35:29	5.98e7	1.16e8	1.19e7	2.30e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	35:39	7.37e7	1.42e8	1.24e7	2.38e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	36:28	6.39e7	1.22e8	1.23e7	2.35e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:31	6.15e7	1.20e8	1.14e7	2.21e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	35:30	5.26e7	4.20e7	1.00e7	7.89e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	35:40	6.15e7	4.97e7	1.09e7	8.84e6	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	36:29	5.62e7	4.61e7	1.08e7	9.34e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	37:32	4.83e7	3.90e7	8.98e6	7.20e6	-----	-----	1.24	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-293	Instrument ID	10MSHR05 (F)
Filename	F140301B_01	GC Column ID	USD331524H
Analyzed	03/01/2014 12:14	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	36:40	8.25e7	6.64e7	1.81e7	1.46e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	36:47	1.09e8	8.73e7	1.96e7	1.60e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:08	9.60e7	7.76e7	1.77e7	1.41e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	36:41	3.96e7	3.13e7	8.50e6	6.71e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD	36:49	4.83e7	3.85e7	8.61e6	6.93e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	37:08	4.39e7	3.57e7	8.19e6	6.66e6	-----	-----	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	39:23	5.67e7	1.30e8	1.02e7	2.35e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:13	4.61e7	1.05e8	8.25e6	1.87e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	39:24	5.93e7	5.75e7	1.11e7	1.04e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:14	4.68e7	4.55e7	8.24e6	8.13e6	-----	-----	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	40:41	7.97e7	7.65e7	1.42e7	1.38e7	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	40:42	4.12e7	4.03e7	7.78e6	7.23e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:11	6.61e7	7.16e7	8.84e6	9.61e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:01	1.30e8	1.46e8	1.67e7	1.87e7	-----	-----	0.89	
OCDD	44:02	5.91e7	6.89e7	7.68e6	8.93e6	-----	-----	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR05 (F)
Filename	F140306A_23	GC Column ID	USD331524H
Analyzed	03/07/2014 02:58	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	19:50	9.71e7	1.24e8	1.53e7	1.99e7	-----	-----	0.78	
2,3,7,8-TCDF	19:51	8.32e6	1.09e7	1.33e6	1.76e6	-----	-----	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	19:58	7.50e7	9.58e7	1.24e7	1.52e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	20:49	7.45e7	9.58e7	1.10e7	1.46e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	20:51	1.76e7		2.83e6		-----	-----		
2,3,7,8-TCDD	20:51	6.62e6	9.22e6	1.04e6	1.36e6	-----	-----	0.72	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	27:33	1.18e8	7.52e7	1.34e7	8.47e6	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	30:03	1.21e8	7.62e7	1.65e7	1.05e7	-----	-----	1.59	
1,2,3,7,8-PeCDF	27:35	5.50e7	3.56e7	6.17e6	3.90e6	-----	-----	1.54	
2,3,4,7,8-PeCDF	30:06	5.68e7	3.68e7	7.87e6	4.93e6	-----	-----	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	30:43	8.66e7	5.40e7	1.30e7	8.06e6	-----	-----	1.61	
1,2,3,7,8-PeCDD	30:45	2.44e7	4.00e7	3.49e6	5.75e6	-----	-----	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	35:12	5.35e7	1.03e8	1.25e7	2.42e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	6.50e7	1.23e8	1.29e7	2.46e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	36:12	5.56e7	1.07e8	1.34e7	2.48e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:16	5.39e7	1.04e8	1.15e7	2.21e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:12	4.93e7	3.93e7	1.17e7	9.20e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	35:23	5.60e7	4.47e7	1.13e7	9.42e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	36:13	5.28e7	4.20e7	1.19e7	9.75e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	37:18	4.41e7	3.48e7	9.17e6	7.41e6	-----	-----	1.27	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR05 (F)
Filename	F140306A_23	GC Column ID	USD331524H
Analyzed	03/07/2014 02:58	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	36:25	7.23e7	5.74e7	1.80e7	1.46e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	36:32	8.85e7	7.16e7	1.90e7	1.54e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	36:53	7.82e7	6.52e7	1.70e7	1.42e7	-----	-----	1.20	
1,2,3,4,7,8-HxCDD	36:25	3.45e7	2.73e7	8.63e6	6.96e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	36:34	3.93e7	3.11e7	8.60e6	6.50e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD	36:54	3.77e7	2.93e7	8.02e6	6.26e6	-----	-----	1.29	

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	39:10	5.08e7	1.15e8	1.11e7	2.49e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:05	3.98e7	9.17e7	7.94e6	1.79e7	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	39:11	5.13e7	5.04e7	1.11e7	1.11e7	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	41:05	3.99e7	3.96e7	7.88e6	7.55e6	-----	-----	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	40:32	7.29e7	6.72e7	1.47e7	1.35e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	40:33	3.54e7	3.53e7	7.24e6	6.95e6	-----	-----	1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:07	6.02e7	6.82e7	8.17e6	8.97e6	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:58	1.17e8	1.30e8	1.47e7	1.64e7	-----	-----	0.90	
OCDD	43:59	5.31e7	6.00e7	6.80e6	7.67e6	-----	-----	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-7604-293	Instrument ID	10MSHR06 (U)
Filename	U140307A_01	GC Column ID	USD397111H
Analyzed	03/07/2014 05:10	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:53	1.44e8	1.79e8	2.01e7	2.47e7	-----	-----	0.81	
2,3,7,8-TCDF	22:56	1.44e7	1.84e7	2.08e6	2.67e6	-----	-----	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	23:12	7.98e7	9.87e7	1.22e7	1.42e7	-----	-----	0.81	
2,3,7,8-TCDD-13C	24:08	7.79e7	9.86e7	1.02e7	1.31e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:11	2.07e7		2.80e6		-----	-----		
2,3,7,8-TCDD	24:11	9.54e6	1.26e7	1.23e6	1.59e6	-----	-----	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	30:27	1.56e8	9.70e7	3.06e7	1.94e7	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	31:40	1.59e8	1.00e8	3.75e7	2.33e7	-----	-----	1.58	
1,2,3,7,8-PeCDF	30:28	7.67e7	4.94e7	1.53e7	9.92e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	31:40	8.19e7	5.22e7	1.89e7	1.20e7	-----	-----	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	32:02	8.69e7	5.41e7	2.08e7	1.29e7	-----	-----	1.61	
1,2,3,7,8-PeCDD	32:03	3.09e7	4.86e7	7.55e6	1.18e7	-----	-----	0.64	

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	34:41	6.75e7	1.21e8	2.14e7	4.09e7	-----	-----	0.56	
1,2,3,6,7,8-HxCDF-13C	34:48	8.82e7	1.70e8	2.41e7	4.54e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:18	7.48e7	1.40e8	2.20e7	4.18e7	-----	-----	0.54	
1,2,3,7,8,9-HxCDF-13C	36:02	6.71e7	1.27e8	1.78e7	3.46e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	34:42	6.14e7	4.94e7	1.94e7	1.57e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:49	7.84e7	6.34e7	2.18e7	1.78e7	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	35:19	6.92e7	5.68e7	2.01e7	1.66e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	36:02	5.66e7	4.54e7	1.54e7	1.19e7	-----	-----	1.24	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-293	Instrument ID	10MSHR06 (U)
Filename	U140307A_01	GC Column ID	USD397111H
Analyzed	03/07/2014 05:10	ICAL ID	U140306

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	35:27	7.22e7	5.51e7	2.51e7	1.93e7	-----	-----	1.31	
1,2,3,6,7,8-HxCDD-13C	35:32	9.96e7	7.75e7	2.78e7	2.14e7	-----	-----	1.29	
1,2,3,7,8,9-HxCDD-13C	35:45	8.70e7	6.96e7	2.20e7	1.75e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	35:28	4.07e7	3.16e7	1.40e7	1.06e7	-----	-----	1.29	
1,2,3,6,7,8-HxCDD	35:33	5.08e7	3.97e7	1.39e7	1.12e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD	35:46	4.91e7	3.90e7	1.27e7	1.02e7	-----	-----	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	37:15	4.11e7	9.01e7	1.16e7	2.53e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:37	2.86e7	6.33e7	7.20e6	1.54e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:16	4.86e7	4.64e7	1.41e7	1.31e7	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:38	3.42e7	3.27e7	8.71e6	8.15e6	-----	-----	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	38:09	4.24e7	3.91e7	1.06e7	9.43e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:10	2.47e7	2.33e7	6.12e6	6.11e6	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:04	5.20e7	5.68e7	1.12e7	1.25e7	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	6.95e7	7.90e7	1.45e7	1.64e7	-----	-----	0.88	
OCDD	40:52	3.79e7	4.27e7	7.78e6	9.15e6	-----	-----	0.89	

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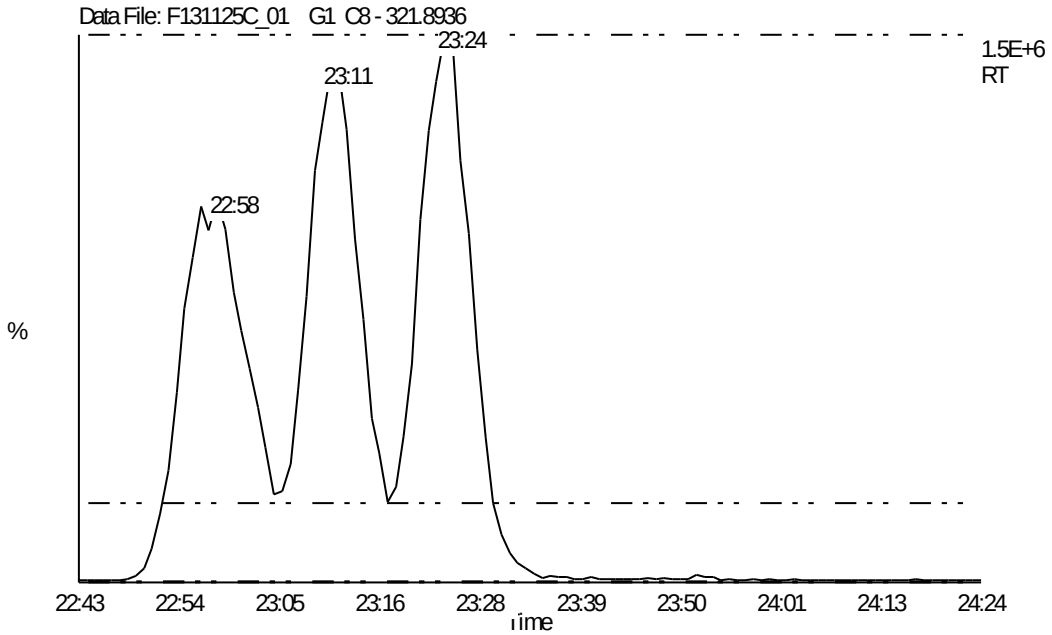
Column Performance Mix (CPM) / Window Defining Mix (WDM)

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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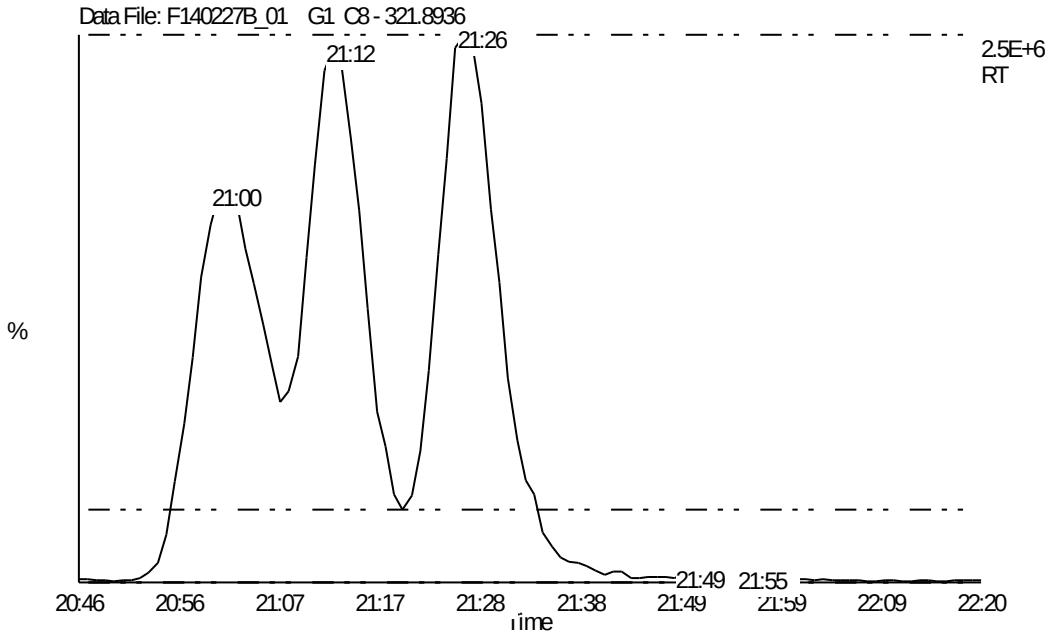
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-293	Injected By	SMT	
Raw Data File	F140227B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	2/27/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	13:35	GC Column S/N	USD331524H	
Resolution	**13.3%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:10	23:07
PeCDF	341.8567	22:58	32:24
HxCDF	373.8207	33:37	37:22
HpCDF	407.7818	39:08	40:51
OCDF	441.7428	43:28	0:00
TCDD	321.8936	17:35	22:47
PeCDD	357.8517	26:03	31:57
HxCDD	391.8127	34:29	36:59
HpCDD	425.7737	39:29	40:20
OCDD	459.7347	43:18	0:00
1234-TCDD-13C(RS)	331.9367	20:31	0:00
123789-HxCDD-13C(RS)	401.8559	36:58	0:00

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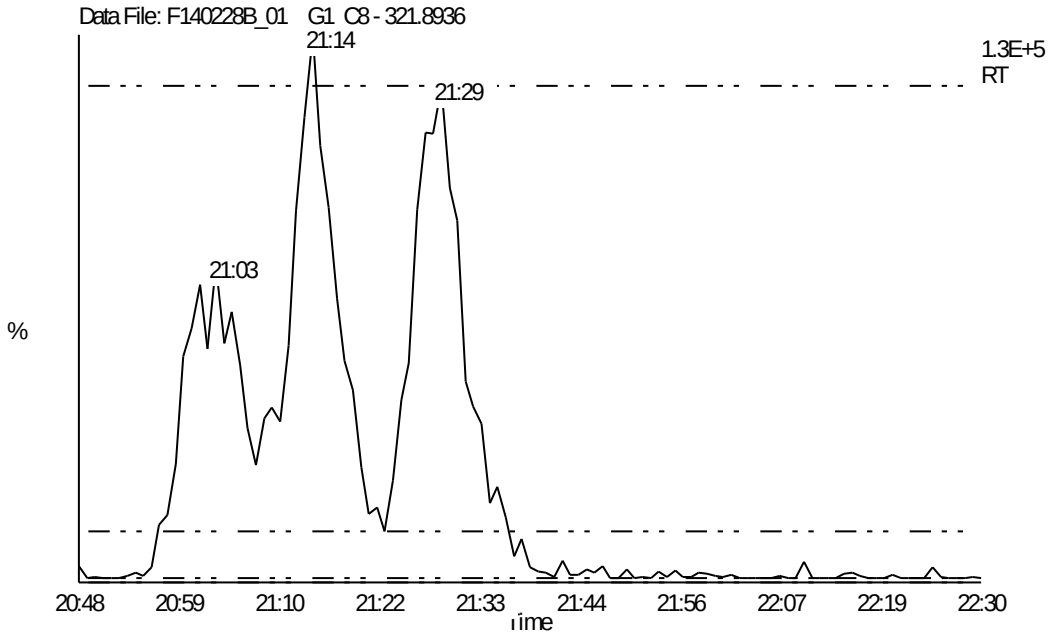
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-293	Injected By	CVS	
Raw Data File	F140228B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	2/28/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	10:48	GC Column S/N	USD331524H	
Resolution	**9.6%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:11	23:08
PeCDF	341.8567	22:59	32:29
HxCDF	373.8207	33:43	37:34
HpCDF	407.7818	39:25	41:13
OCDF	441.7428	44:09	0:00
TCDD	321.8936	17:37	22:48
PeCDD	357.8517	26:06	32:02
HxCDD	391.8127	34:36	37:11
HpCDD	425.7737	39:47	40:42
OCDD	459.7347	44:00	0:00
1234-TCDD-13C(RS)	331.9367	20:33	0:00
123789-HxCDD-13C(RS)	401.8559	37:10	0:00

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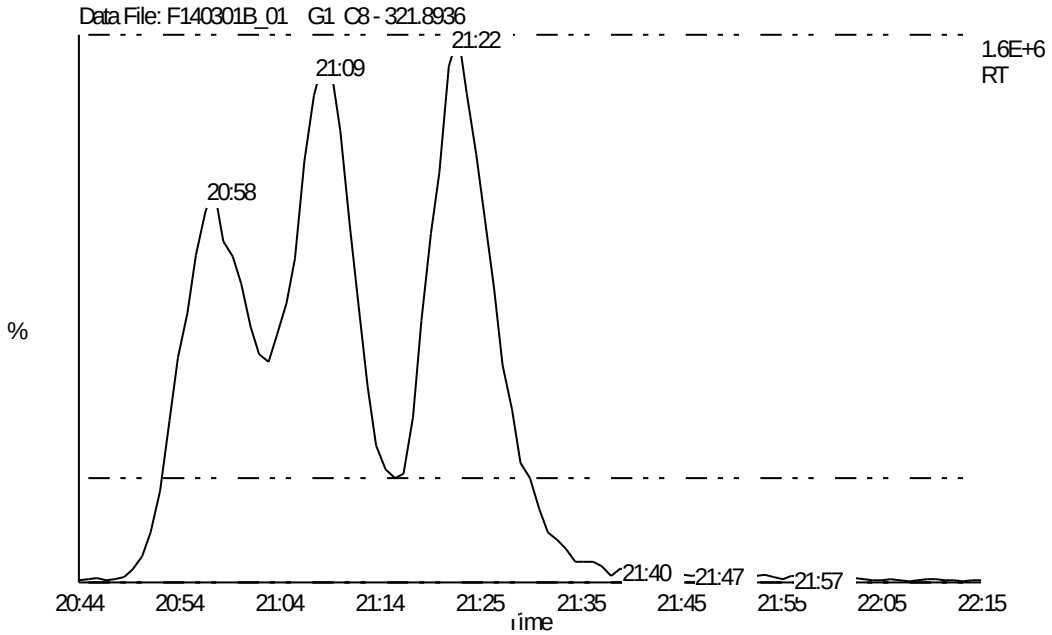
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-293	Injected By	BAL	
Raw Data File	F140301B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	3/1/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	12:14	GC Column S/N	USD331524H	
Resolution	**19.0%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:07	23:04
PeCDF	341.8567	22:54	32:25
HxCDF	373.8207	33:39	37:31
HpCDF	407.7818	39:23	41:13
OCDF	441.7428	44:10	0:00
TCDD	321.8936	17:32	22:43
PeCDD	357.8517	26:00	31:57
HxCDD	391.8127	34:33	37:08
HpCDD	425.7737	39:46	40:41
OCDD	459.7347	44:01	0:00
1234-TCDD-13C(RS)	331.9367	20:29	0:00
123789-HxCDD-13C(RS)	401.8559	37:07	0:00

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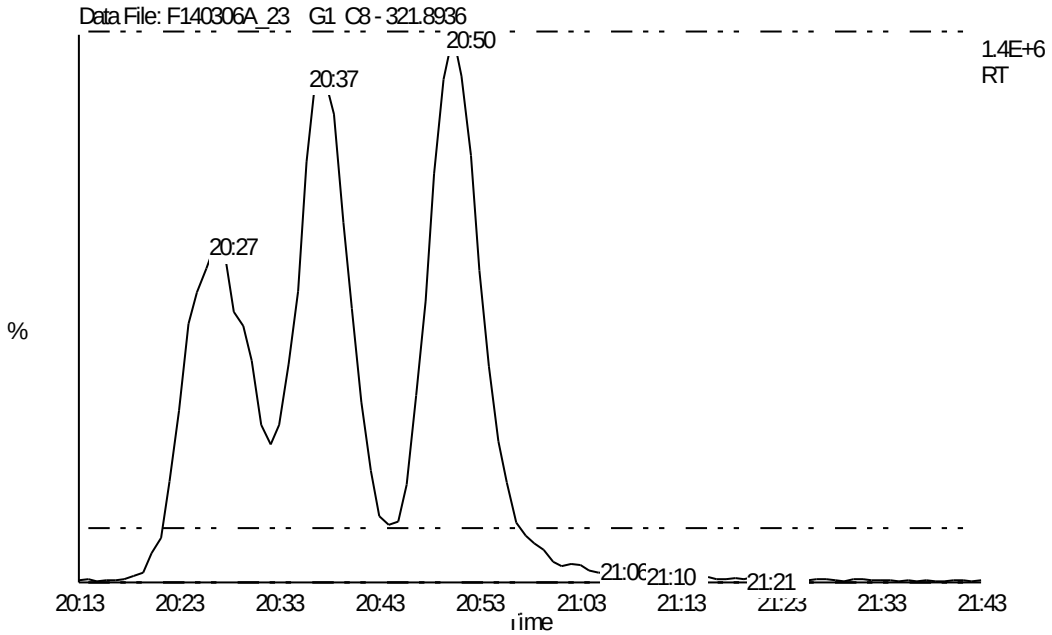
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	SMT	
Raw Data File	F140306A_23	Instrument ID	10MSHR05 (F)	
Date Analyzed	3/7/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	02:58	GC Column S/N	USD331524H	
Resolution	**9.9%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	15:45	22:28
PeCDF	341.8567	22:19	31:58
HxCDF	373.8207	33:17	37:17
HpCDF	407.7818	39:11	41:04
OCDF	441.7428	44:07	0:00
TCDD	321.8936	17:06	22:09
PeCDD	357.8517	25:18	31:30
HxCDD	391.8127	34:13	36:53
HpCDD	425.7737	39:35	40:32
OCDD	459.7347	43:59	0:00
1234-TCDD-13C(RS)	331.9367	19:58	0:00
123789-HxCDD-13C(RS)	401.8559	36:52	0:00

REPORT OF LABORATORY ANALYSIS

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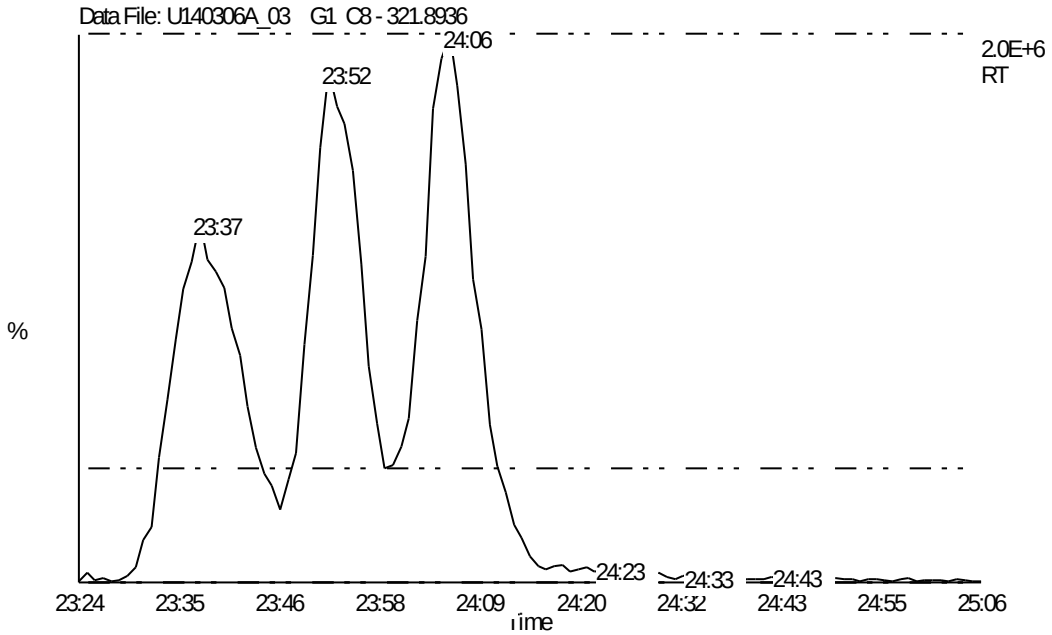
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	SMT	
Raw Data File	U140306A_03	Instrument ID	10MSHR06 (U)	
Date Analyzed	3/6/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	09:24	GC Column S/N	USD397111H	
Resolution	**20.7%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:00	25:59
PeCDF	341.8567	25:55	32:43
HxCDF	373.8207	33:29	36:00
HpCDF	407.7818	37:14	38:35
OCDF	441.7428	41:01	41:01
TCDD	321.8936	19:39	25:41
PeCDD	357.8517	29:01	32:26
HxCDD	391.8127	34:03	35:44
HpCDD	425.7737	37:28	38:08
OCDD	459.7347	40:49	40:49
1234-TCDD-13C(RS)	331.9367	23:07	23:07
123789-HxCDD-13C(RS)	401.8559	35:43	35:43

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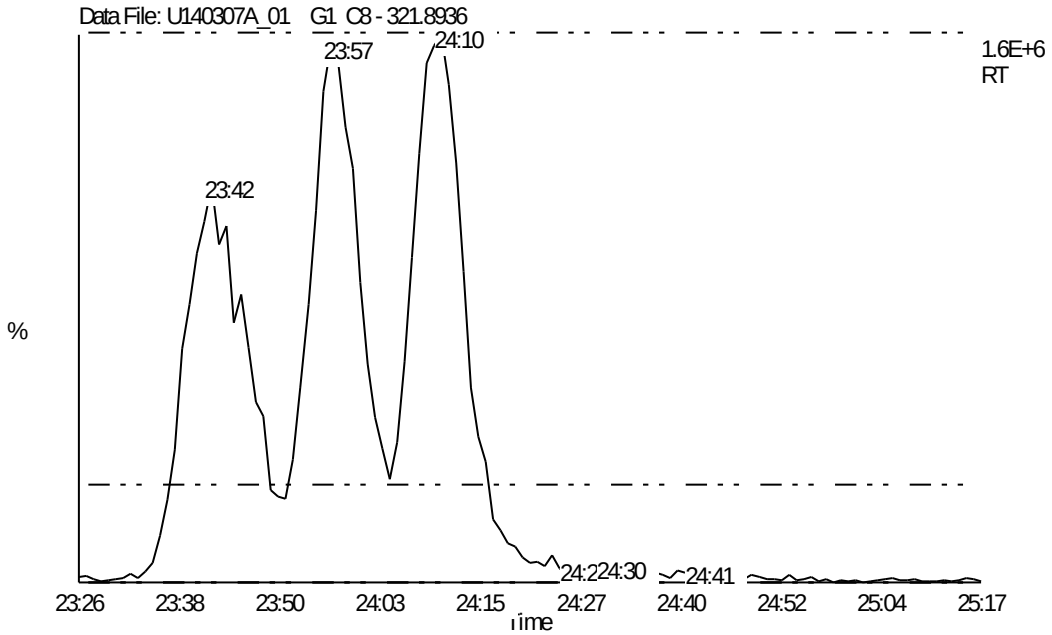
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-293	Injected By	SMT	
Raw Data File	U140307A_01	Instrument ID	10MSHR06 (U)	
Date Analyzed	3/7/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	05:10	GC Column S/N	USD397111H	
Resolution	**17.7%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:04	26:05
PeCDF	341.8567	26:01	32:45
HxCDF	373.8207	33:31	36:02
HpCDF	407.7818	37:16	38:37
OCDF	441.7428	41:03	0:00
TCDD	321.8936	19:43	25:44
PeCDD	357.8517	29:05	32:29
HxCDD	391.8127	34:05	35:45
HpCDD	425.7737	37:29	38:09
OCDD	459.7347	40:52	0:00
1234-TCDD-13C(RS)	331.9367	23:13	0:00
123789-HxCDD-13C(RS)	401.8559	35:45	0:00

REPORT OF LABORATORY ANALYSIS

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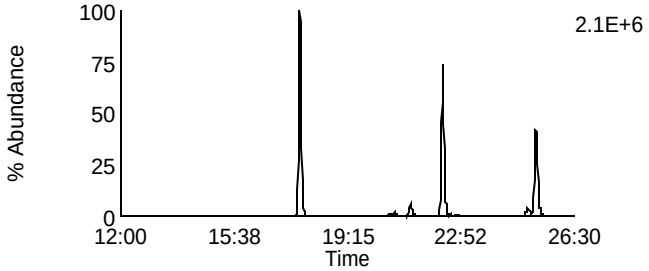
Homologue Group: Tetras

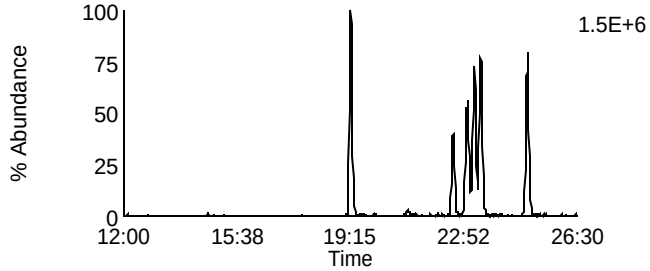
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

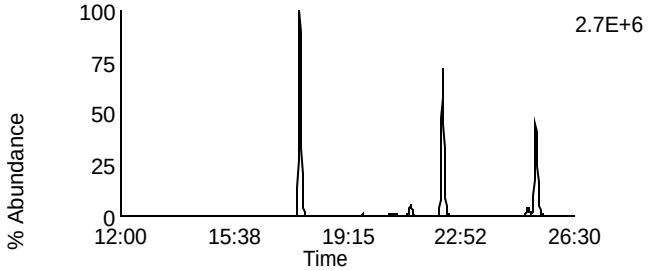
Data File: F131125C_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-288 - BAL USD331524H



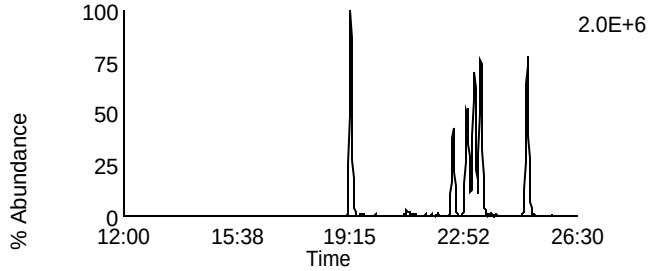
Data File: F131125C_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-288 - BAL USD331524H



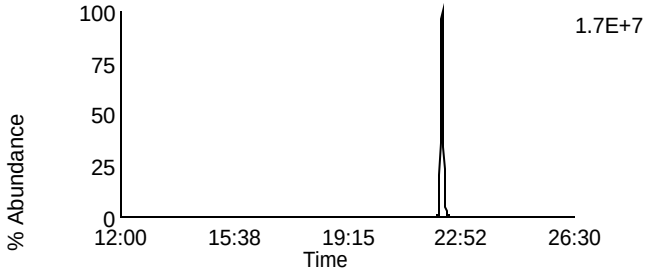
Data File: F131125C_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-288 - BAL USD331524H



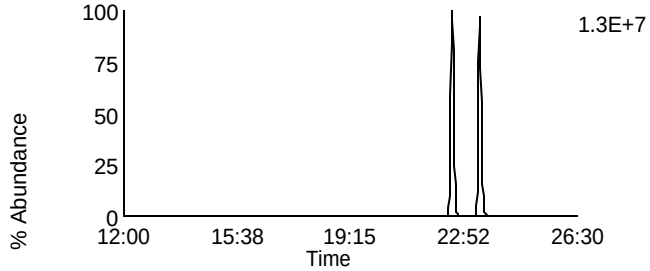
Data File: F131125C_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-288 - BAL USD331524H



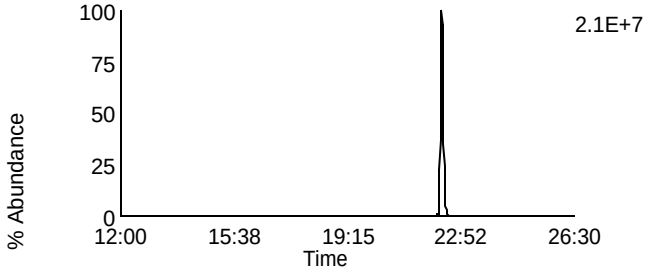
Data File: F131125C_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-288 - BAL USD331524H



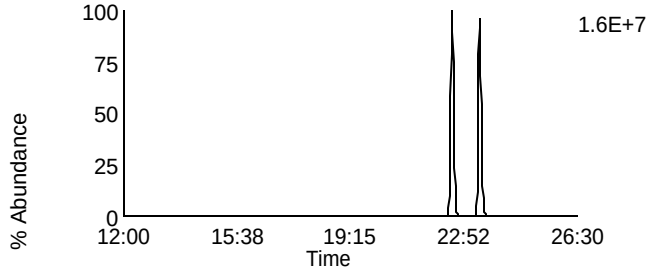
Data File: F131125C_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-288 - BAL USD331524H



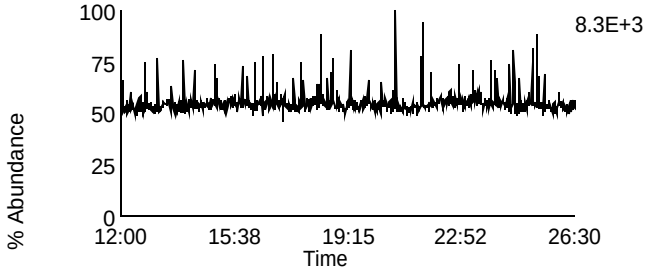
Data File: F131125C_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-288 - BAL USD331524H



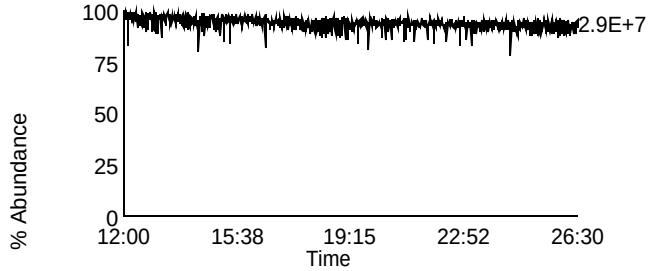
Data File: F131125C_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-288 - BAL USD331524H



Data File: F131125C_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-288 - BAL USD331524H



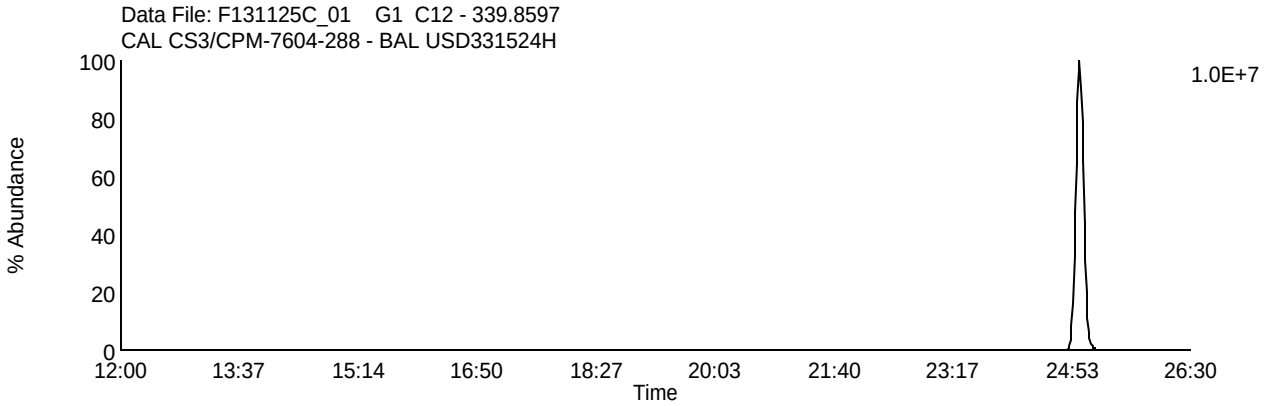
Data File: F131125C_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-288 - BAL USD331524H

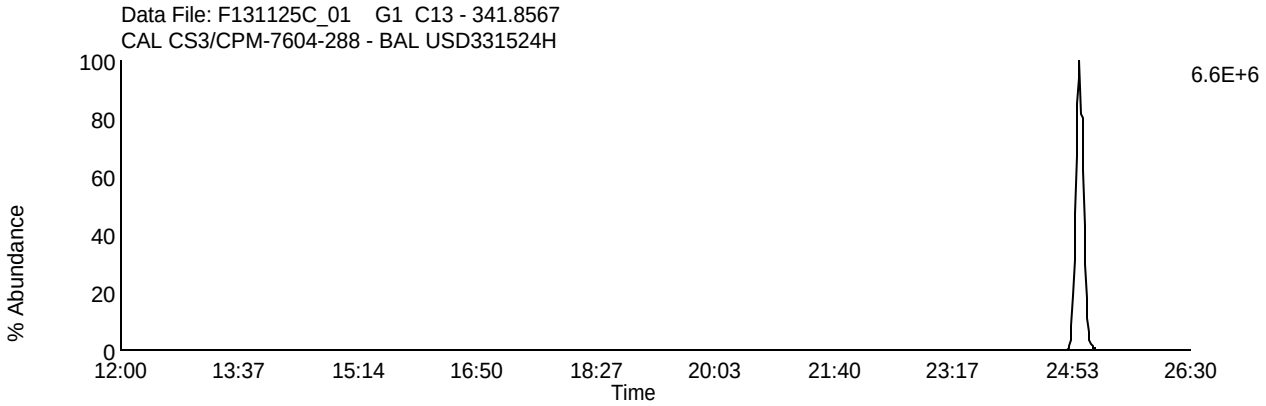


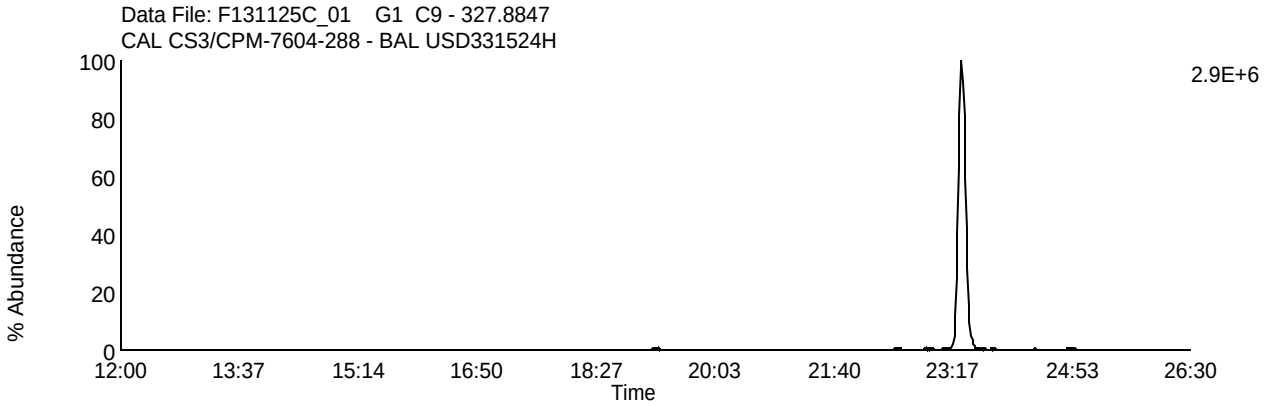
Homologue Group: Penta & Cleanup

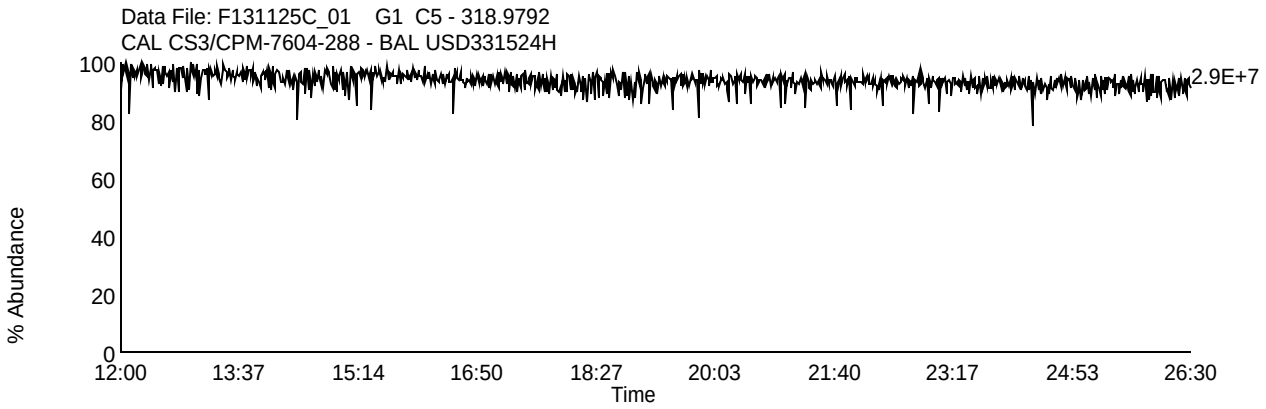
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)







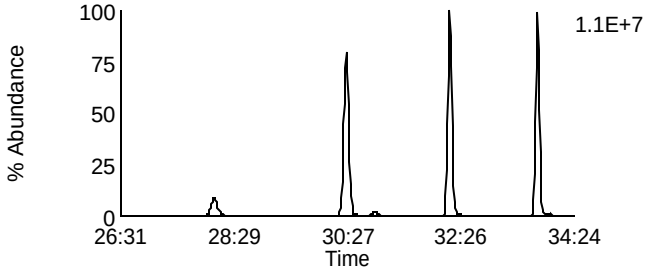


Homologue Group: Pentas

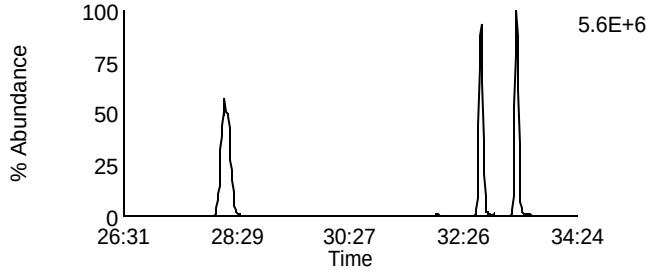
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

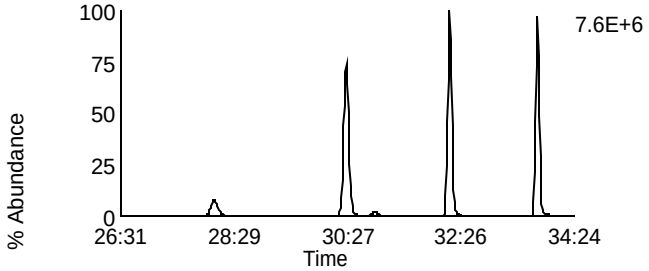
Data File: F131125C_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-288 - BAL USD331524H



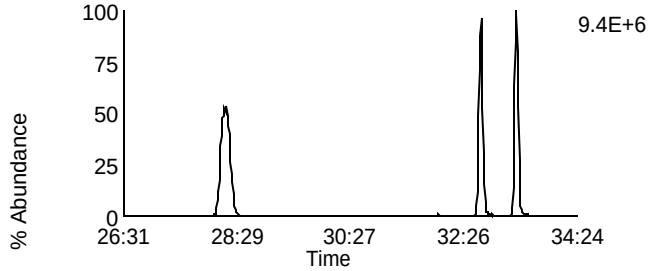
Data File: F131125C_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-288 - BAL USD331524H



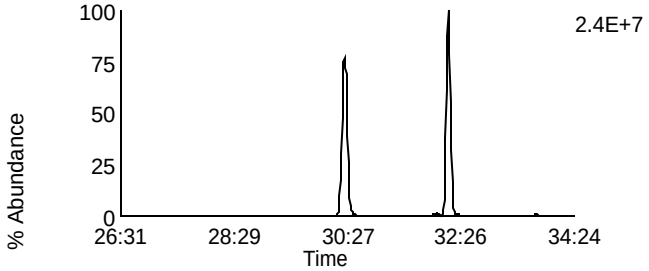
Data File: F131125C_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-288 - BAL USD331524H



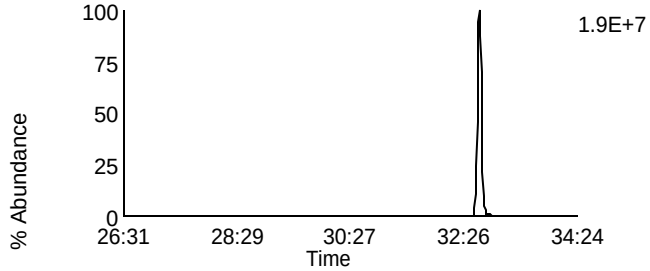
Data File: F131125C_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-288 - BAL USD331524H



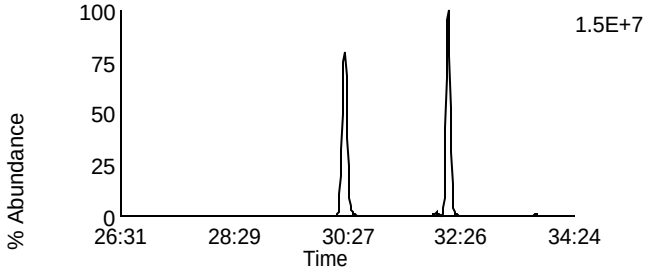
Data File: F131125C_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-288 - BAL USD331524H



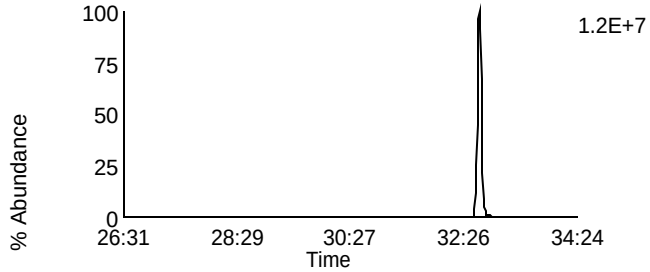
Data File: F131125C_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-288 - BAL USD331524H



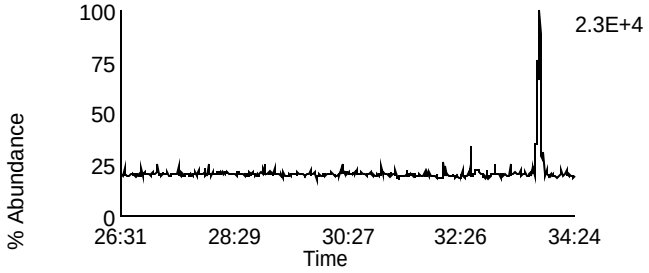
Data File: F131125C_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-288 - BAL USD331524H



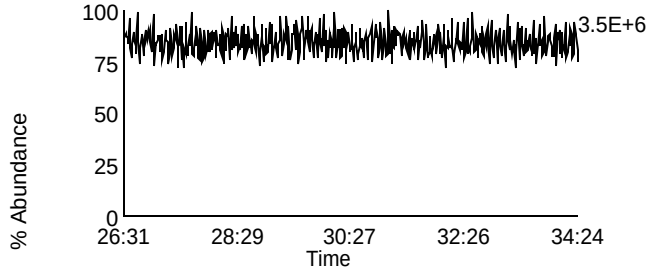
Data File: F131125C_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-288 - BAL USD331524H



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

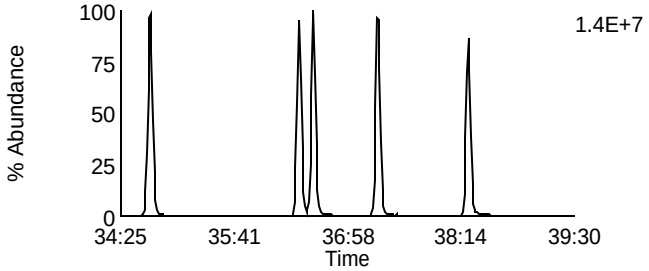


Homologue Group: Hexas

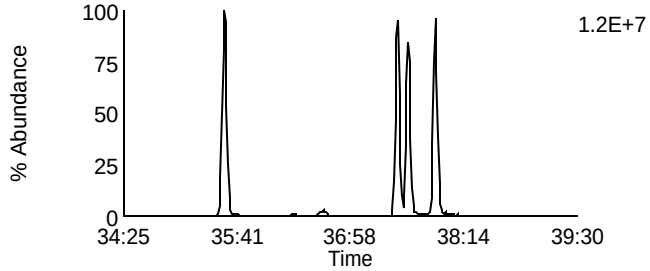
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

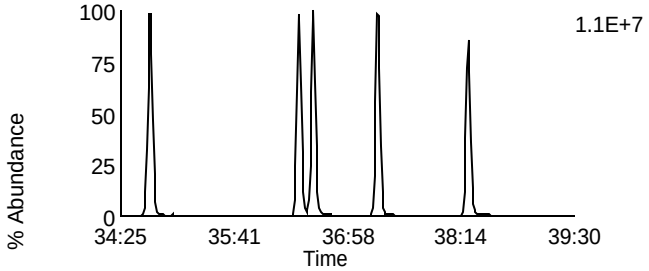
Data File: F131125C_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-288 - BAL USD331524H



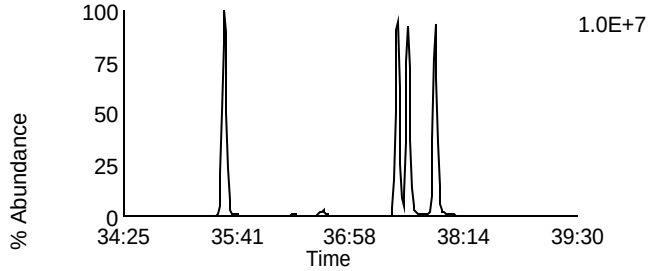
Data File: F131125C_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-288 - BAL USD331524H



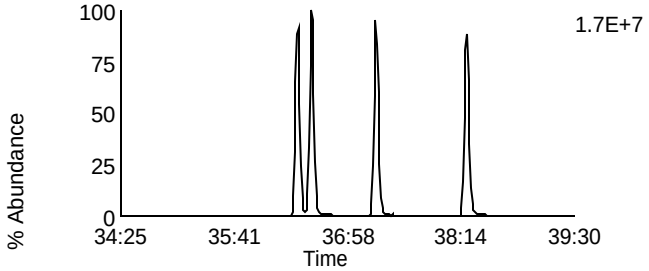
Data File: F131125C_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-288 - BAL USD331524H



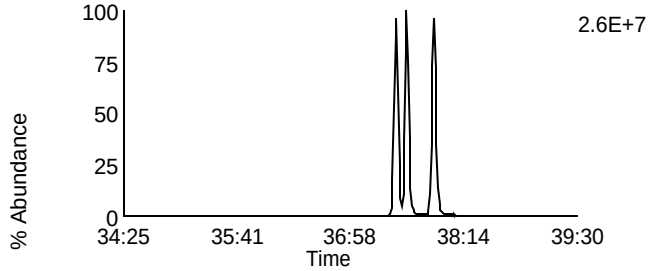
Data File: F131125C_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-288 - BAL USD331524H



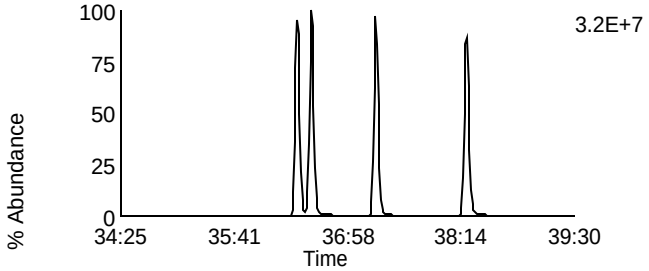
Data File: F131125C_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-288 - BAL USD331524H



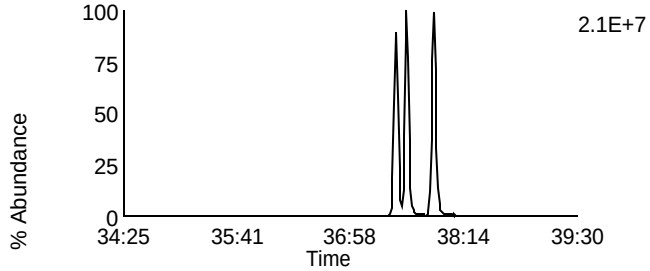
Data File: F131125C_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-288 - BAL USD331524H



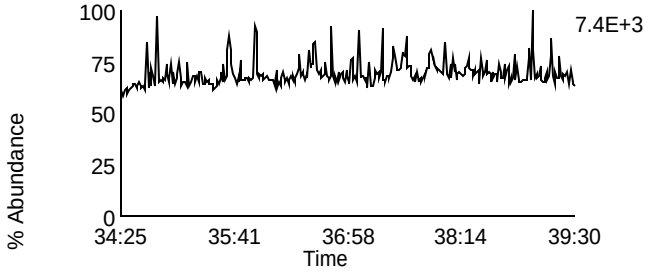
Data File: F131125C_01 G3 C6 - 385.861
CAL CS3/CPM-7604-288 - BAL USD331524H



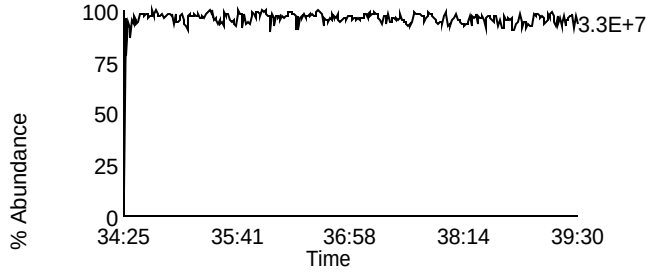
Data File: F131125C_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-288 - BAL USD331524H



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

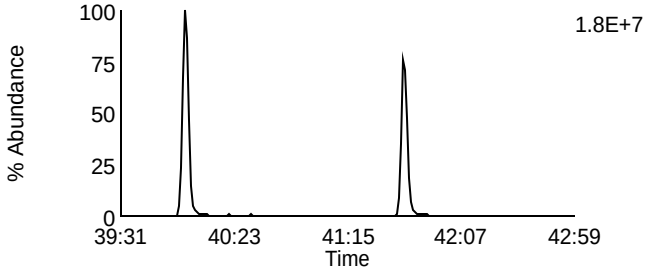


Homologue Group: Heptas

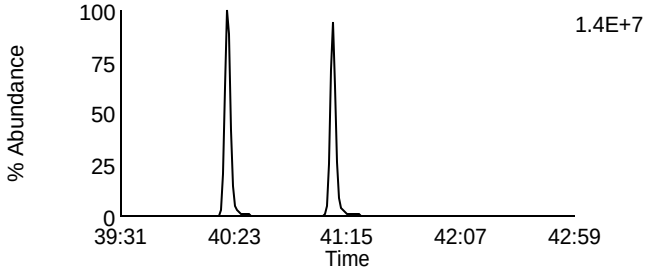
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

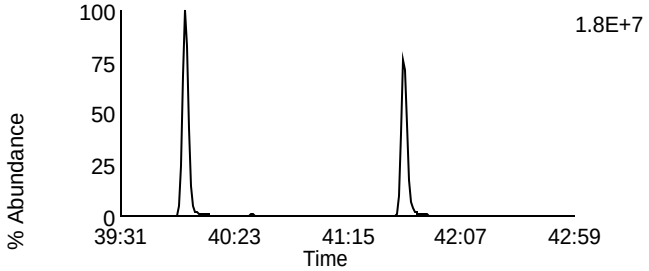
Data File: F131125C_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-288 - BAL USD331524H



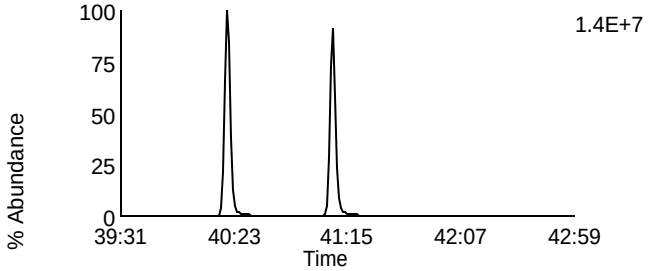
Data File: F131125C_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-288 - BAL USD331524H



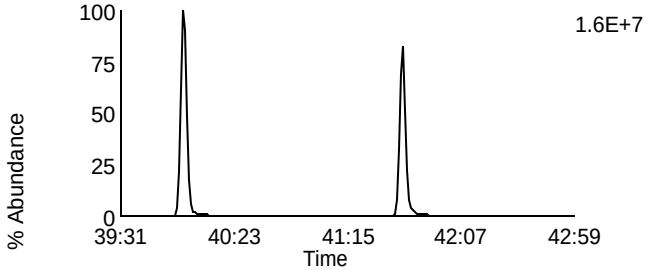
Data File: F131125C_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-288 - BAL USD331524H



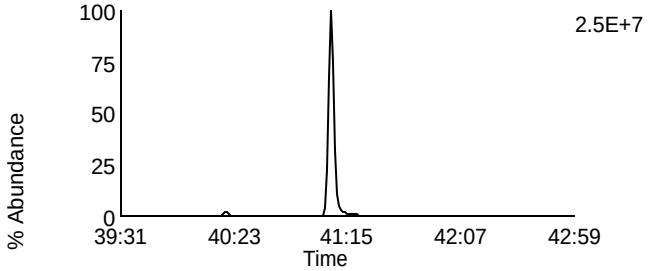
Data File: F131125C_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-288 - BAL USD331524H



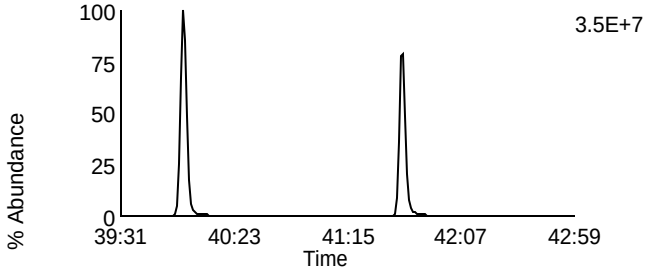
Data File: F131125C_01 G4 C6 - 417.825
CAL CS3/CPM-7604-288 - BAL USD331524H



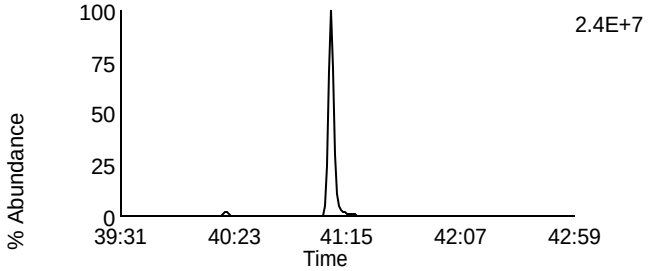
Data File: F131125C_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-288 - BAL USD331524H



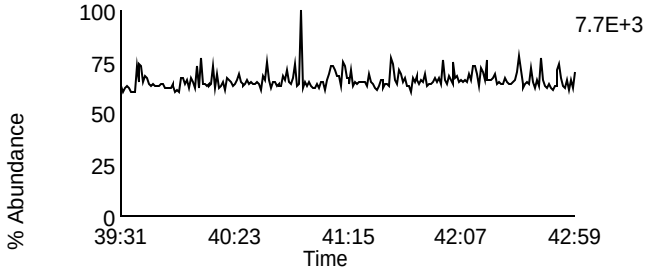
Data File: F131125C_01 G4 C7 - 419.822
CAL CS3/CPM-7604-288 - BAL USD331524H



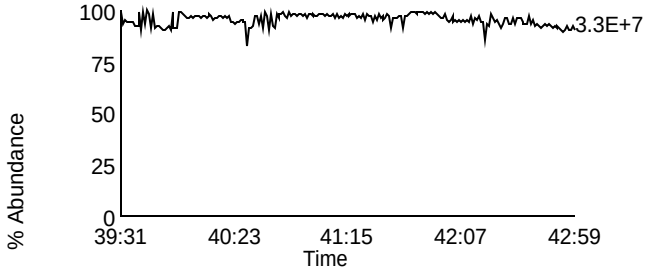
Data File: F131125C_01 G4 C12 - 437.814
CAL CS3/CPM-7604-288 - BAL USD331524H



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

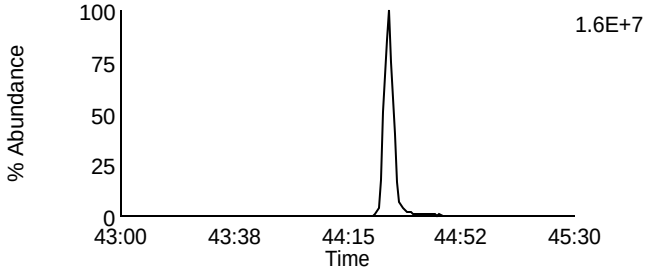


Homologue Group: Octas

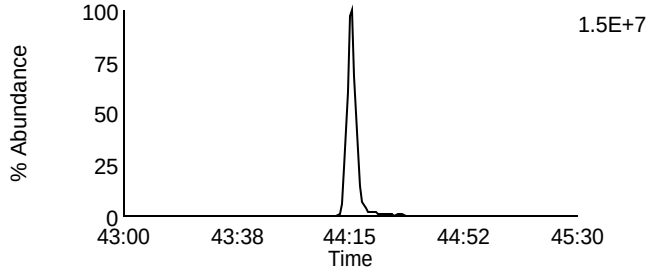
Data File Name: F131125C_01
Date Acquired: 11/25/2013
Sample Description: CAL CS3/CPM-7604-288 - BAL USD331524H

Lab Sample ID: CS3/CPM-7604-288
Client Sample ID: 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



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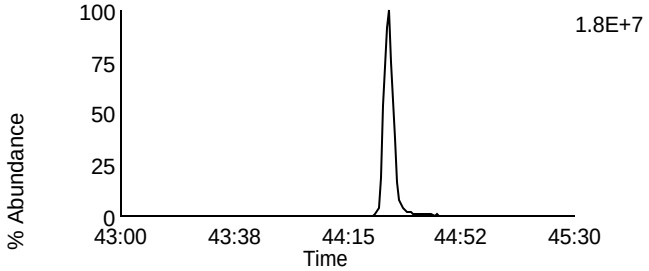
CAL CS3/CPM-7604-288 - BAL USD331524H



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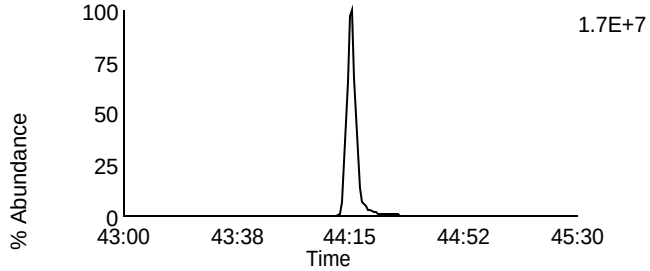
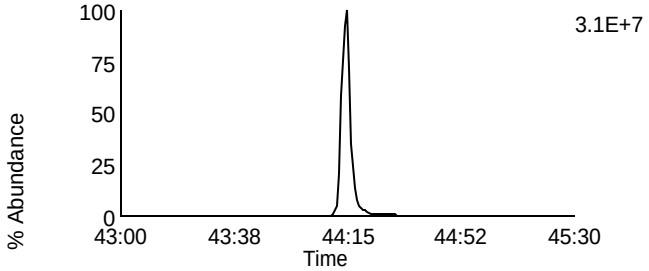
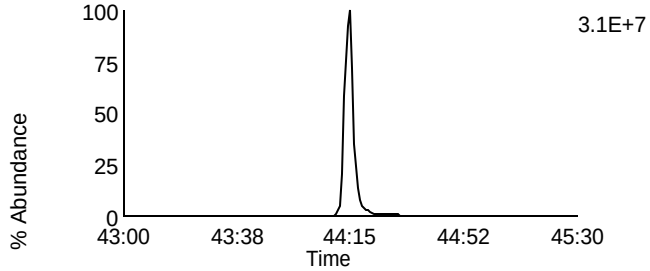
CAL CS3/CPM-7604-288 - BAL USD331524H



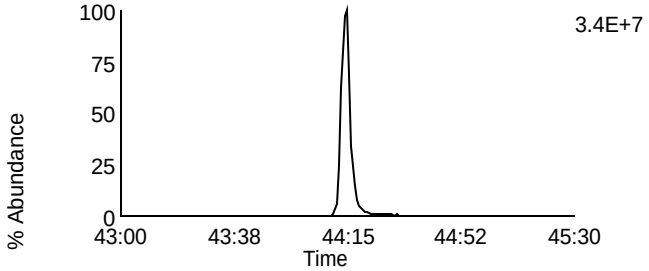
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



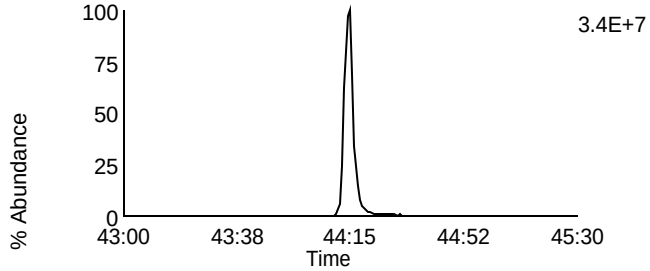
Data File: F131125C_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-288 - BAL USD331524H



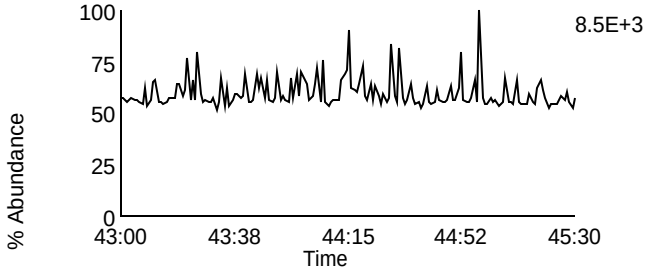
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



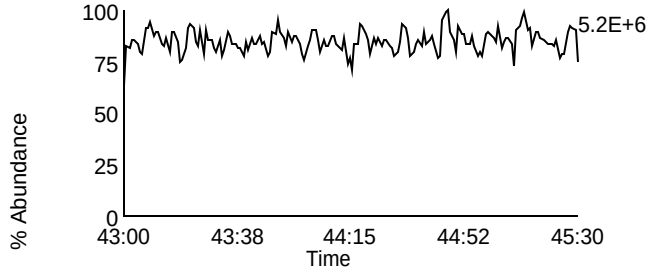
Data File: F131125C_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-288 - BAL USD331524H



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

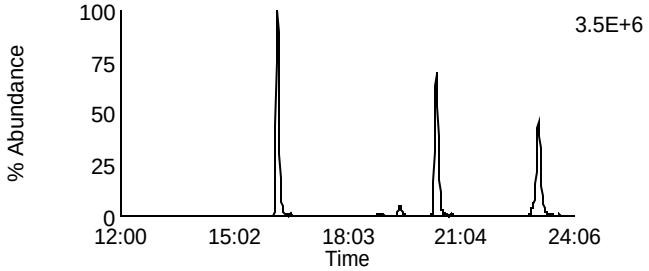


Homologue Group: Tetras

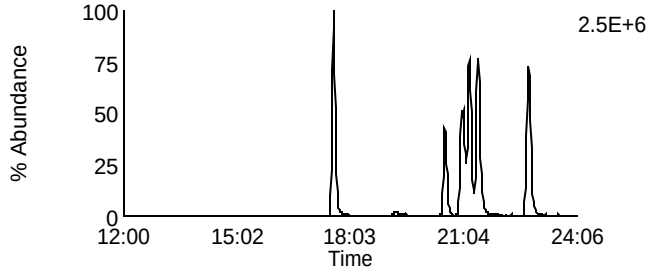
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

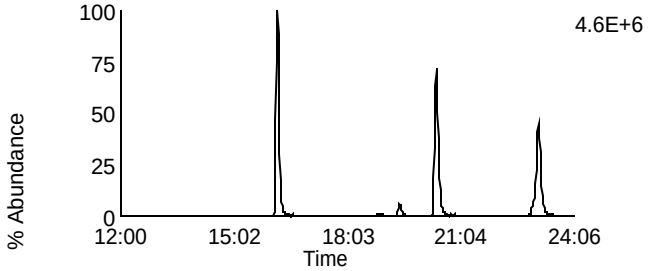
Data File: F140227B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - SMT AS Ca



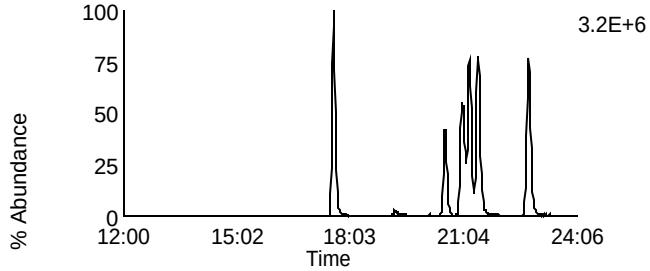
Data File: F140227B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - SMT AS Ca



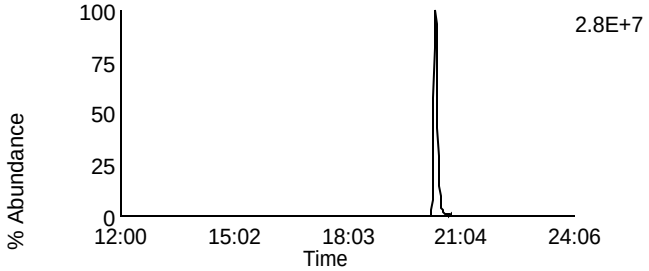
Data File: F140227B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - SMT AS Ca



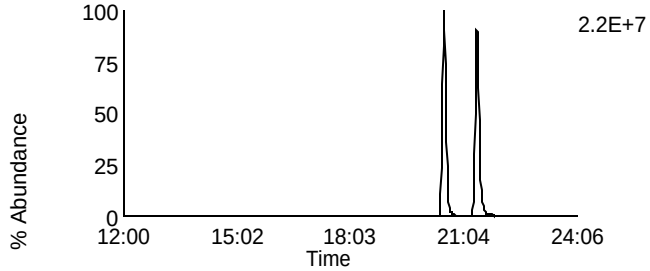
Data File: F140227B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - SMT AS Ca



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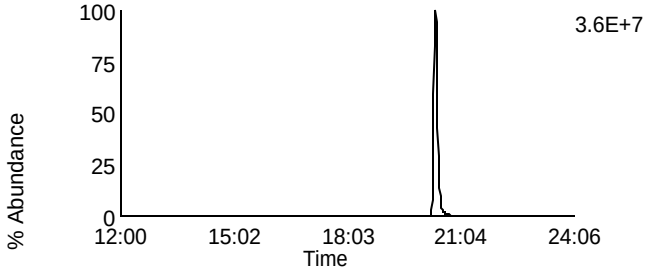
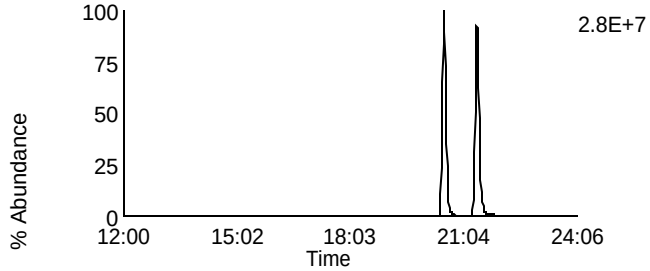
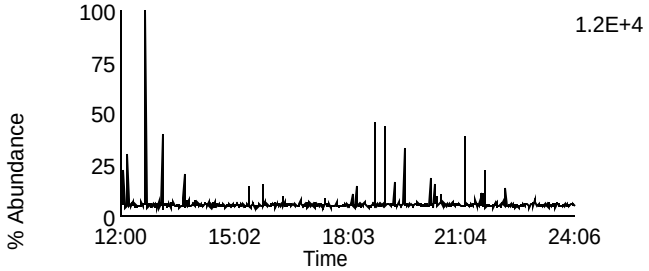
CAL CS3/CPM-7604-293 - SMT AS Ca



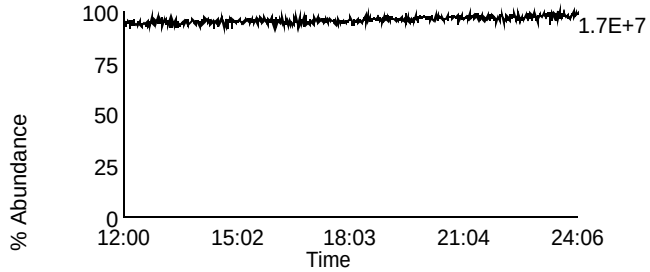
Data File: F140227B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

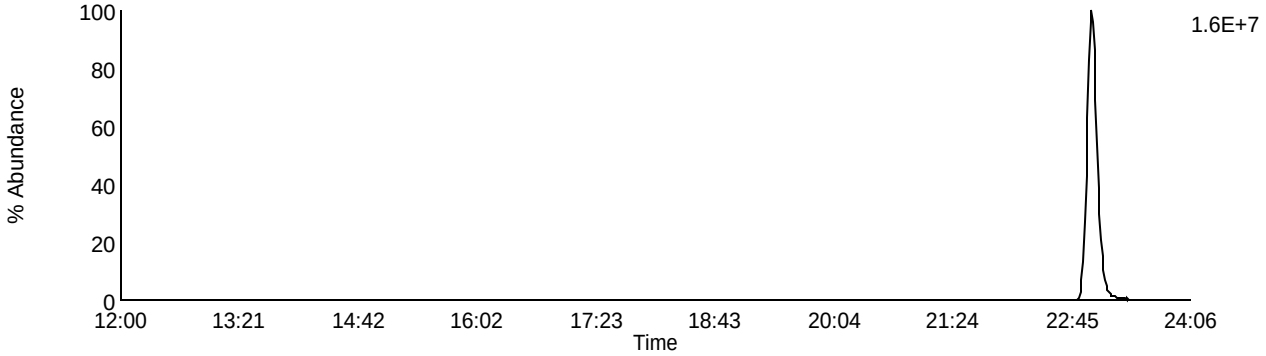


Homologue Group: Penta & Cleanup

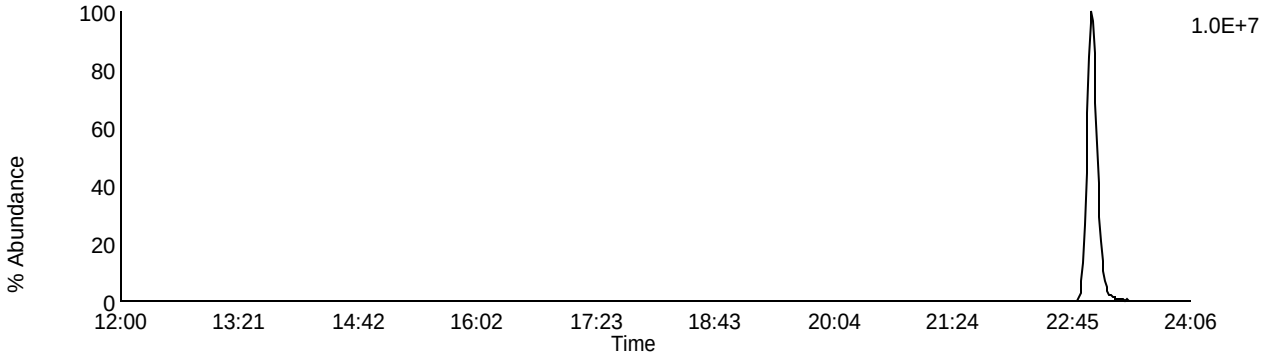
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

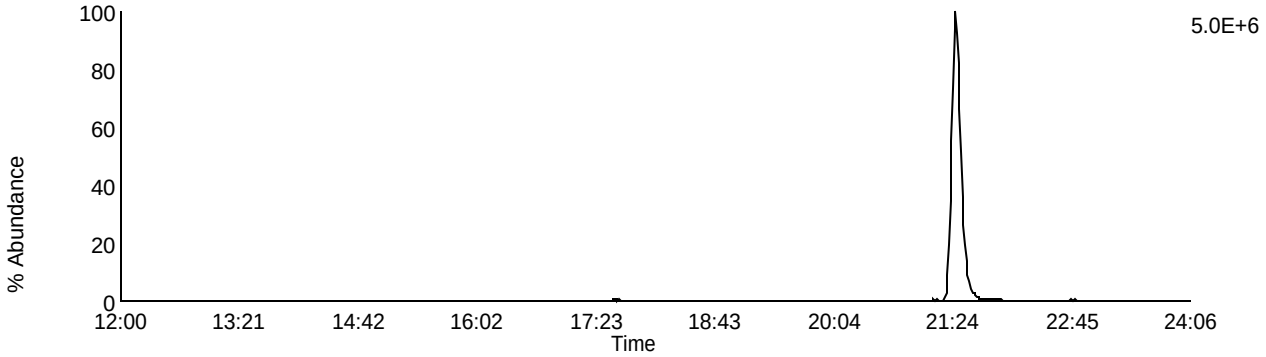
Data File: F140227B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - SMT AS Ca



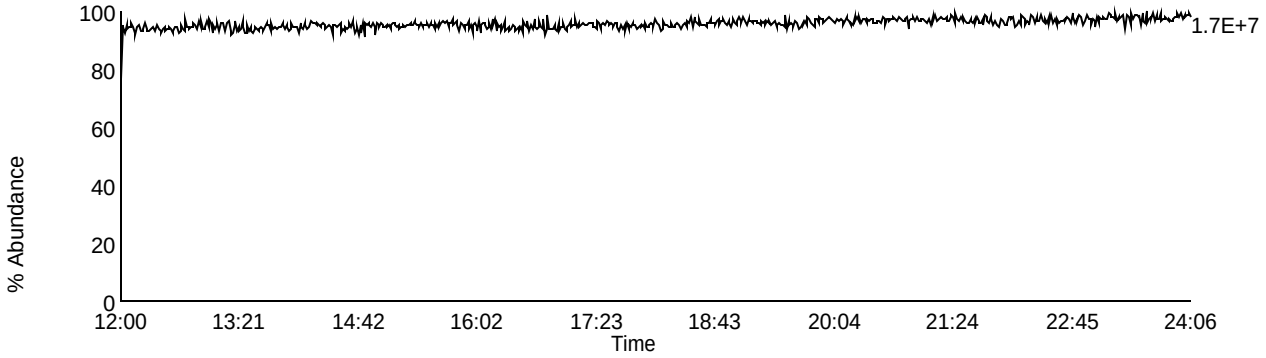
Data File: F140227B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

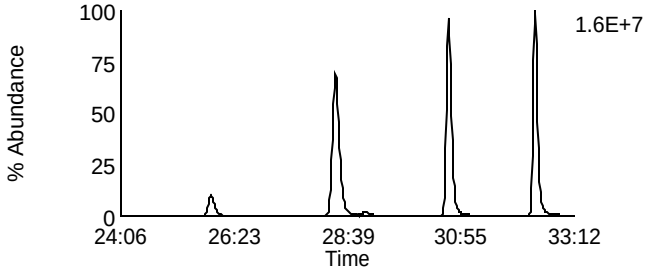


Homologue Group: Pentas

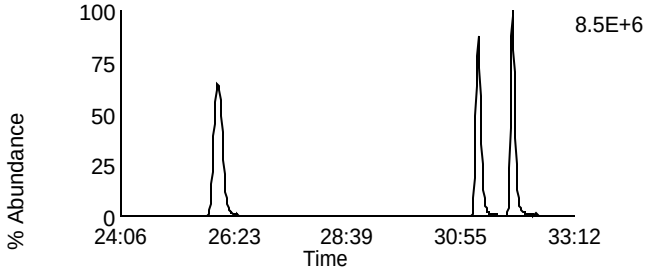
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

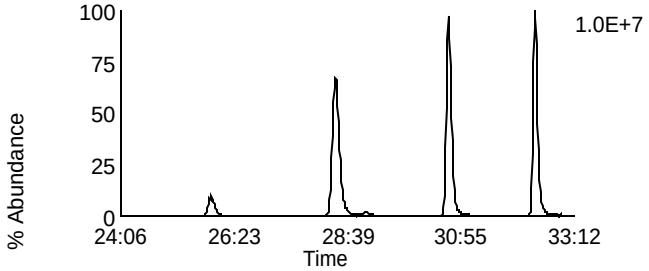
Data File: F140227B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - SMT AS Ca



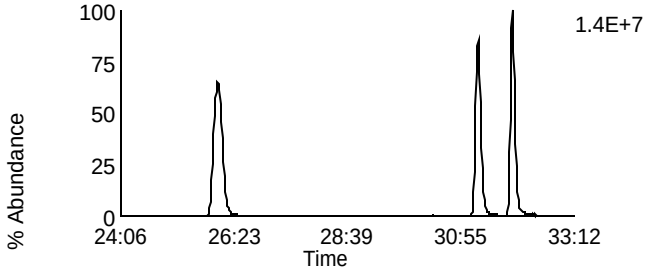
Data File: F140227B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - SMT AS Ca



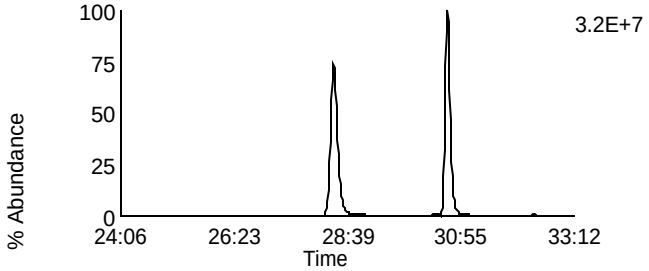
Data File: F140227B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - SMT AS Ca



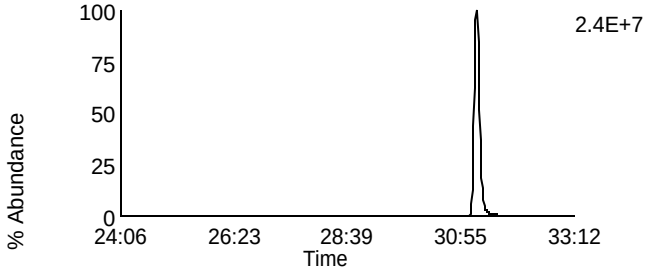
Data File: F140227B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - SMT AS Ca



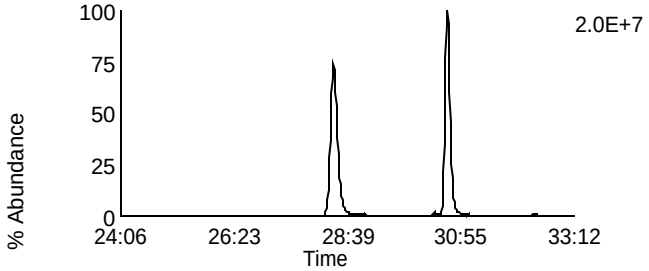
Data File: F140227B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - SMT AS Ca



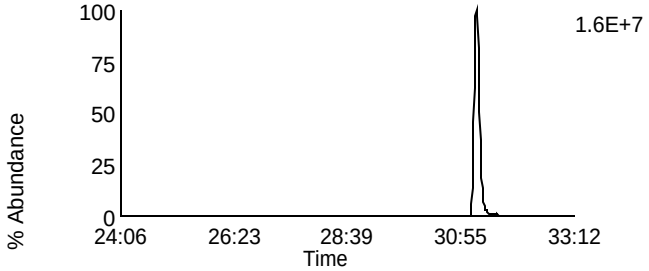
Data File: F140227B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - SMT AS Ca



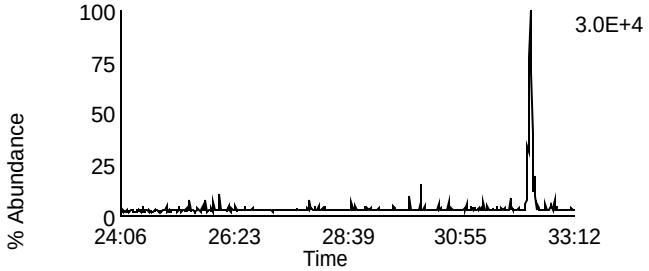
Data File: F140227B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - SMT AS Ca



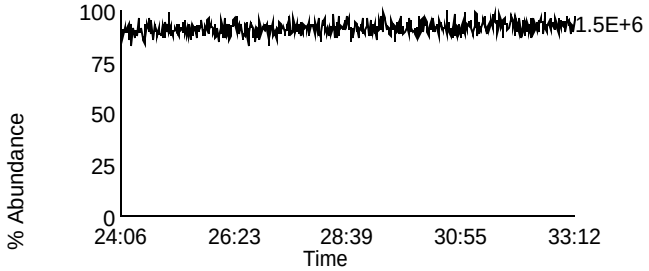
Data File: F140227B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - SMT AS Ca

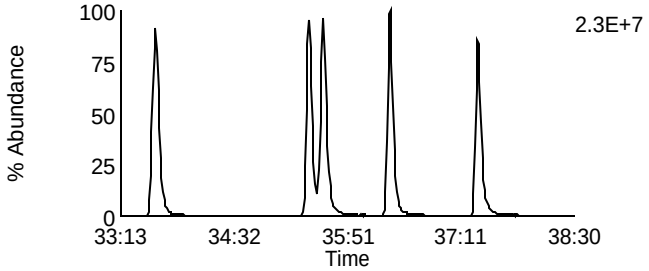


Homologue Group: Hexas

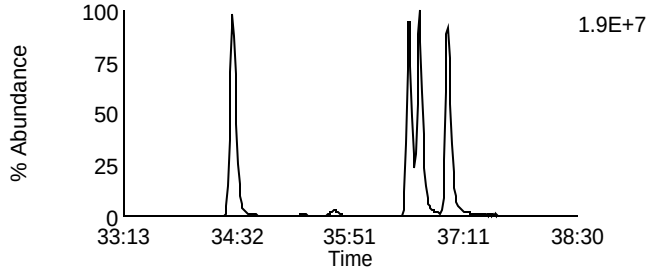
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

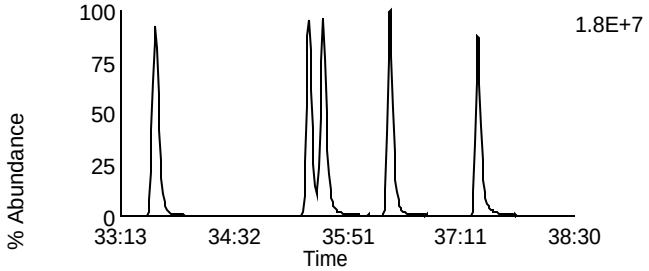
Data File: F140227B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - SMT AS Ca



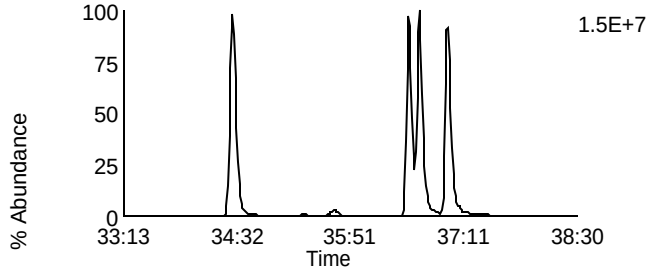
Data File: F140227B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - SMT AS Ca



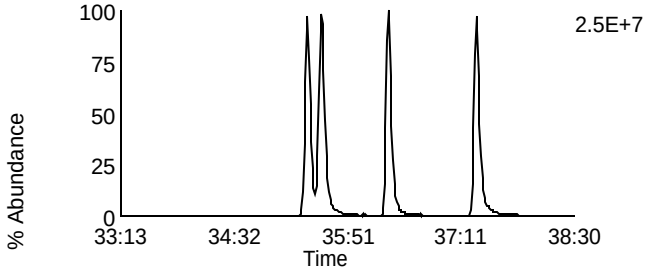
Data File: F140227B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - SMT AS Ca



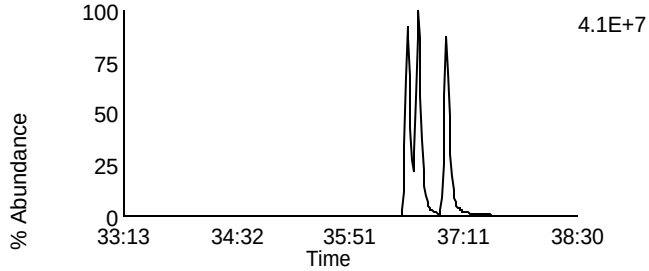
Data File: F140227B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - SMT AS Ca



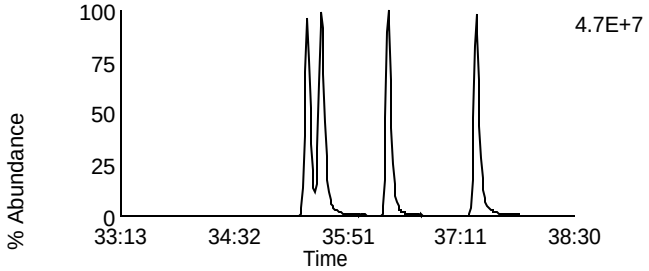
Data File: F140227B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - SMT AS Ca



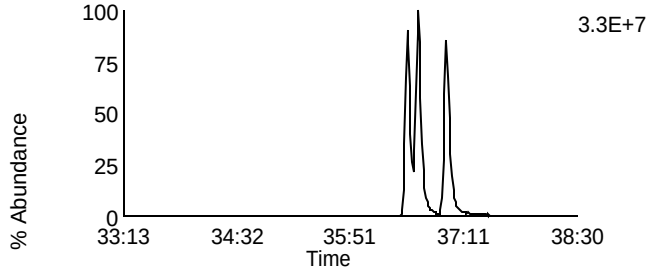
Data File: F140227B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - SMT AS Ca



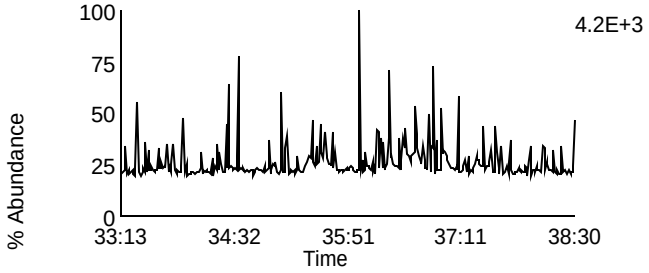
Data File: F140227B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - SMT AS Ca



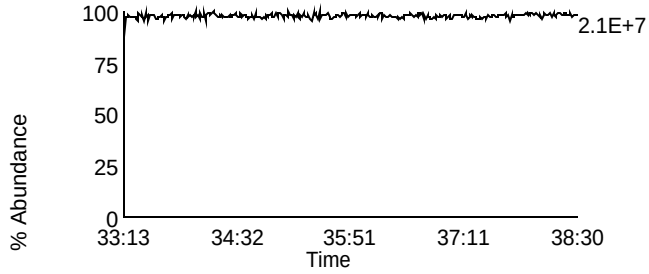
Data File: F140227B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - SMT AS Ca

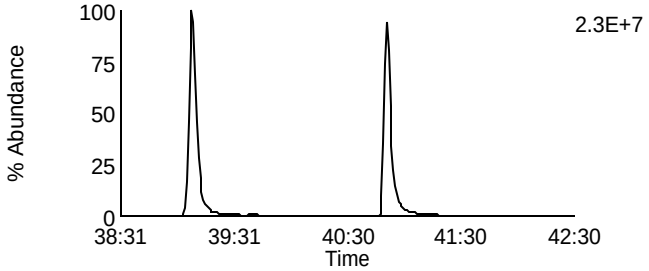


Homologue Group: Heptas

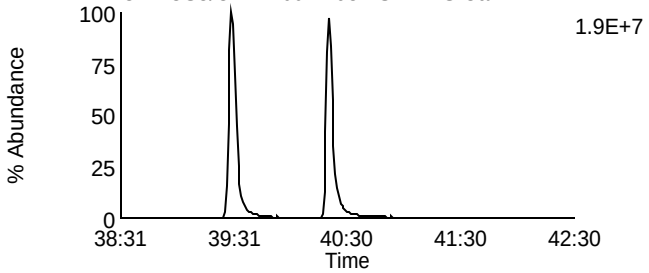
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

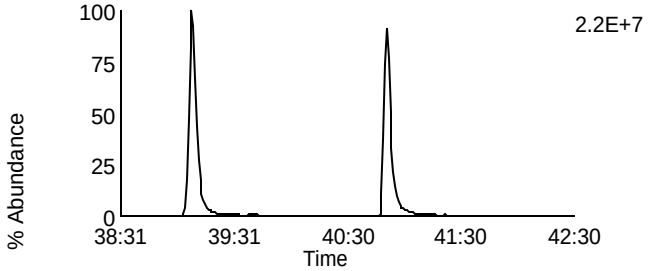
Data File: F140227B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - SMT AS Ca



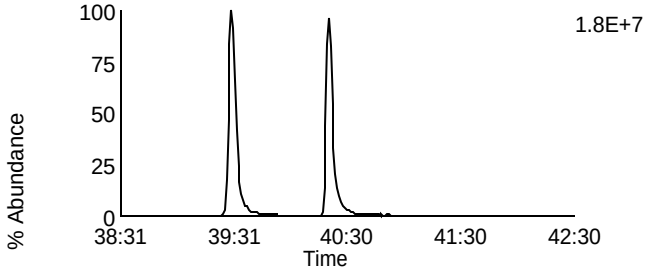
Data File: F140227B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - SMT AS Ca



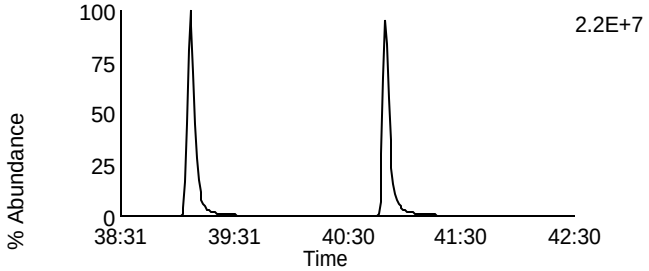
Data File: F140227B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - SMT AS Ca



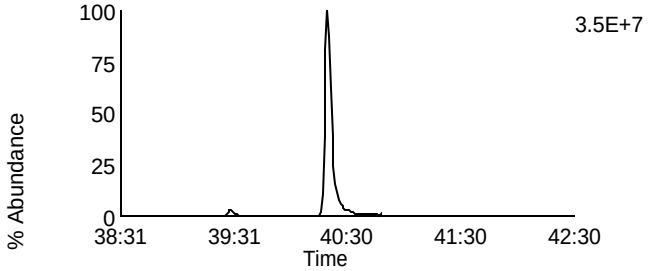
Data File: F140227B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-293 - SMT AS Ca



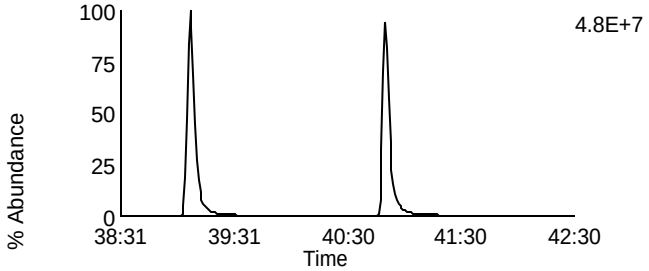
Data File: F140227B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - SMT AS Ca



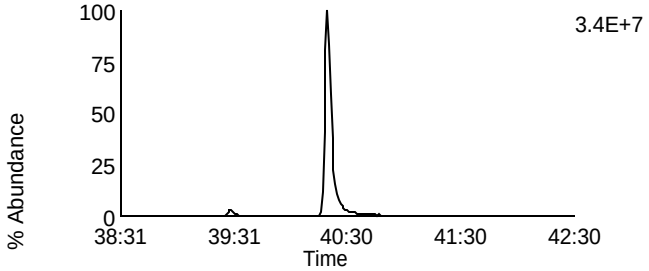
Data File: F140227B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - SMT AS Ca



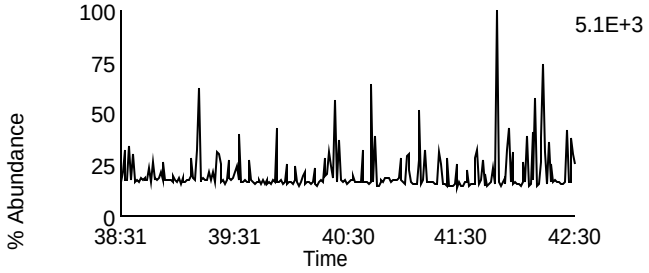
Data File: F140227B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - SMT AS Ca



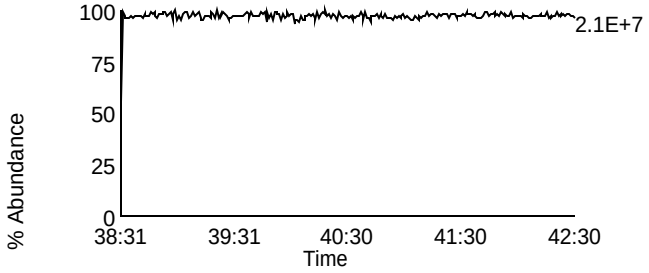
Data File: F140227B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - SMT AS Ca

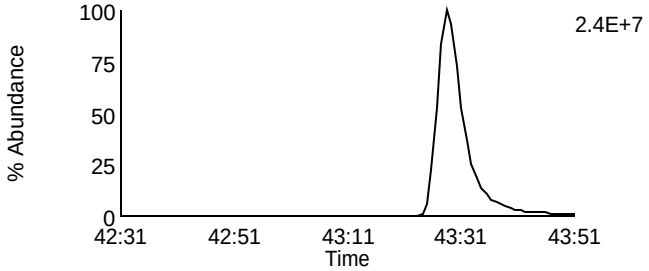


Homologue Group: Octas

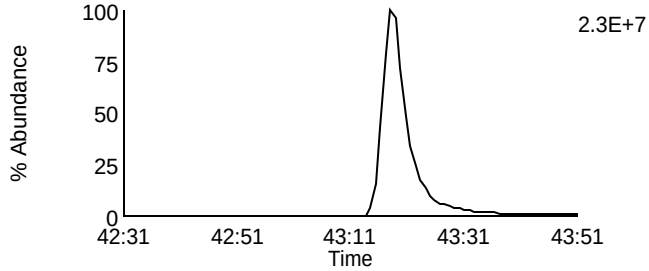
Data File Name: F140227B_01
Date Acquired: 2/27/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

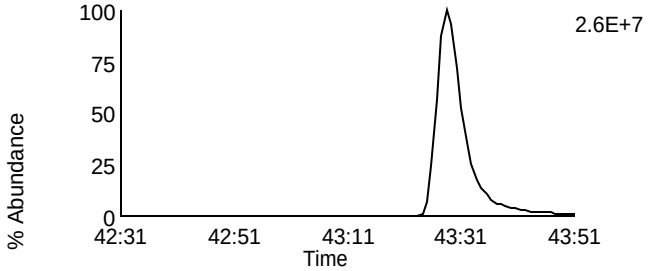
Data File: F140227B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - SMT AS Ca



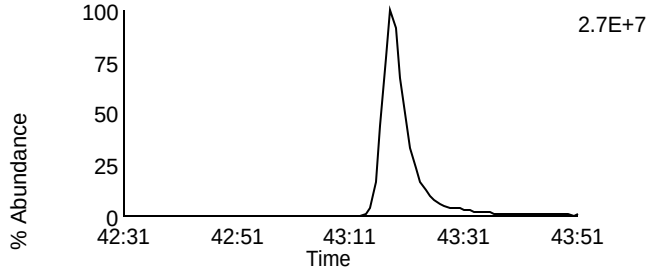
Data File: F140227B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - SMT AS Ca



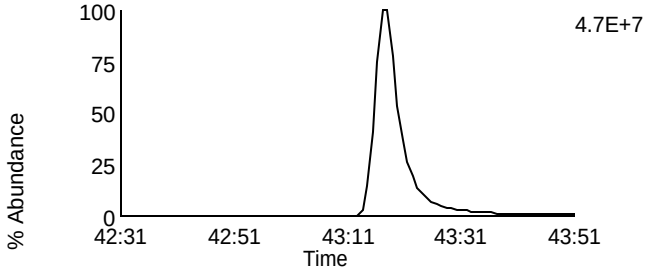
Data File: F140227B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - SMT AS Ca



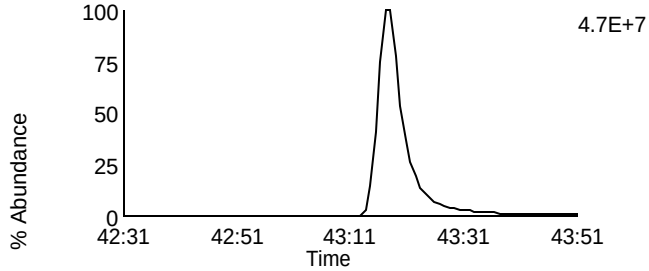
Data File: F140227B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - SMT AS Ca



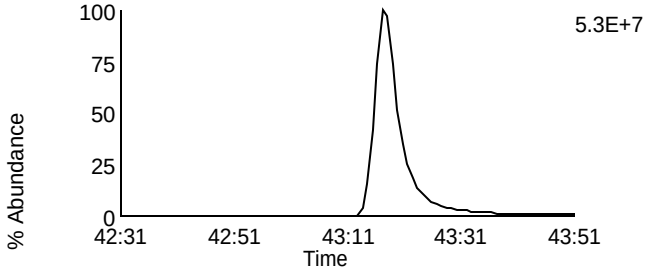
Data File: F140227B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - SMT AS Ca



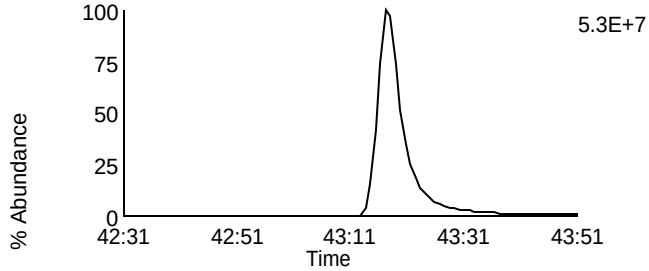
Data File: F140227B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - SMT AS Ca



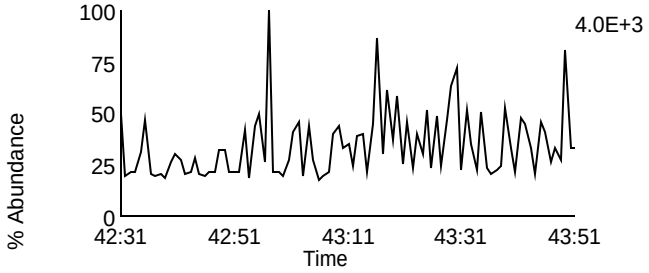
Data File: F140227B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - SMT AS Ca



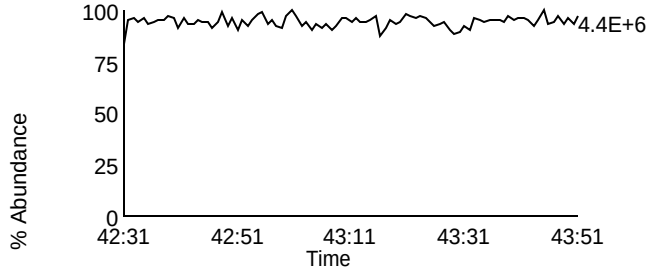
Data File: F140227B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - SMT AS Ca



Data File: F140227B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - SMT AS Ca

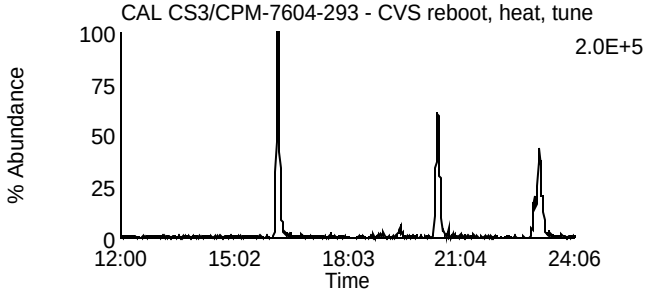


Homologue Group: Tetras

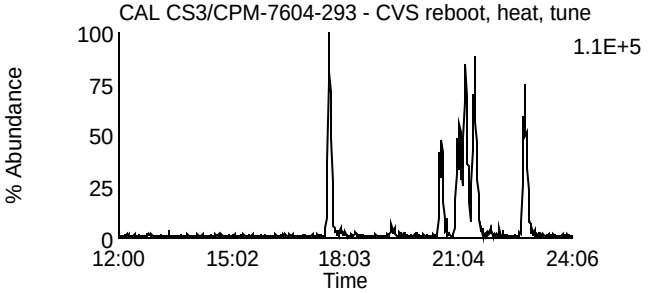
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

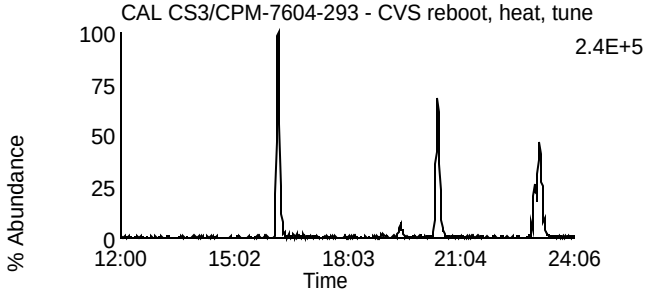
Data File: F140228B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



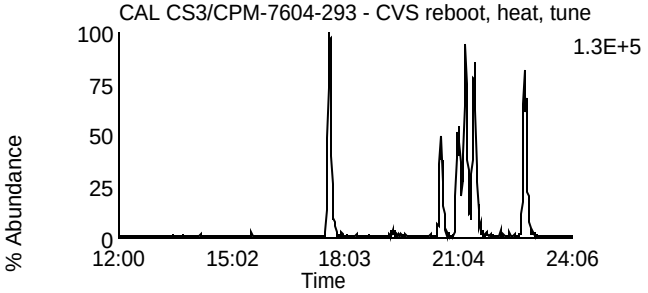
Data File: F140228B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



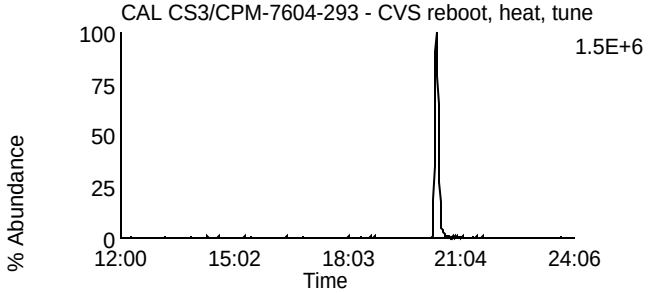
Data File: F140228B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



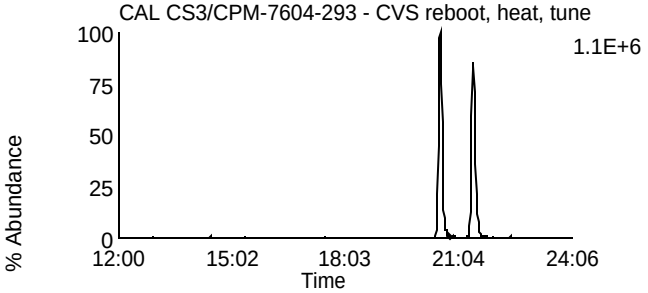
Data File: F140228B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



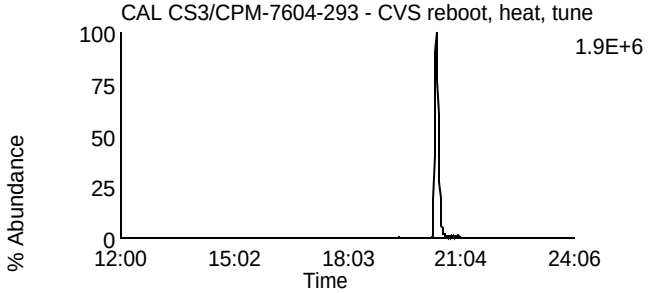
Data File: F140228B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



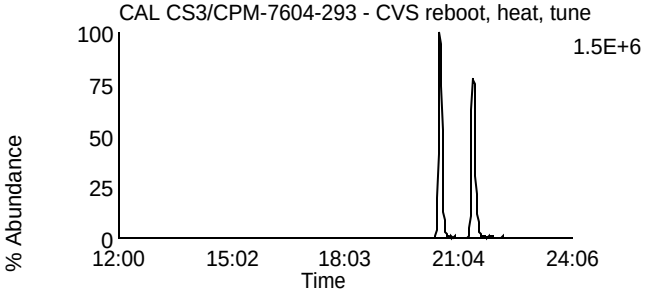
Data File: F140228B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



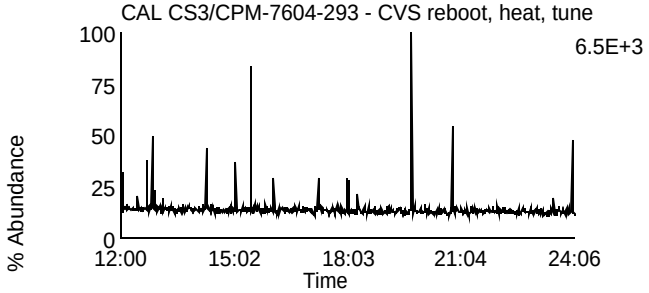
Data File: F140228B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



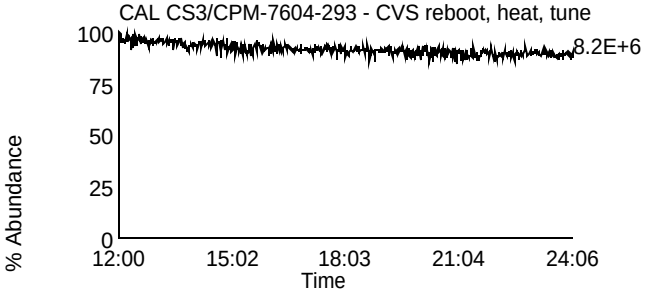
Data File: F140228B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

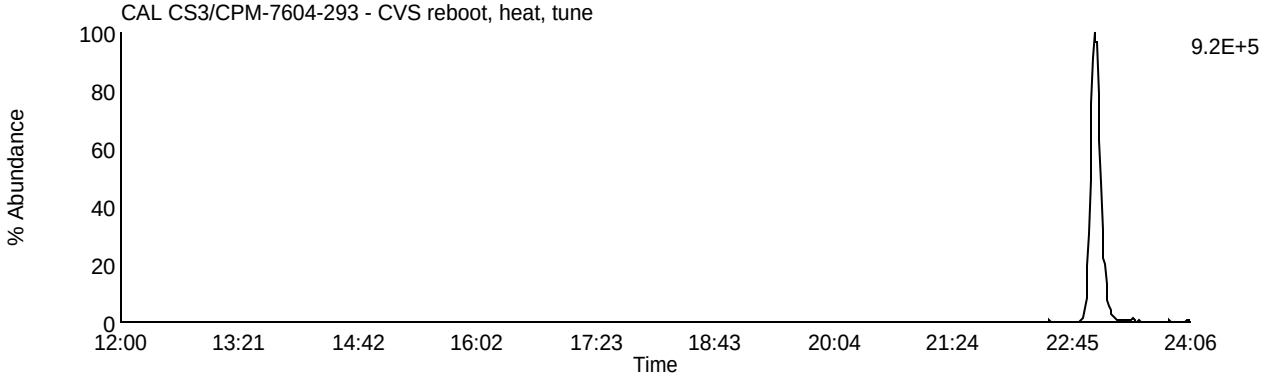


Homologue Group: Penta & Cleanup

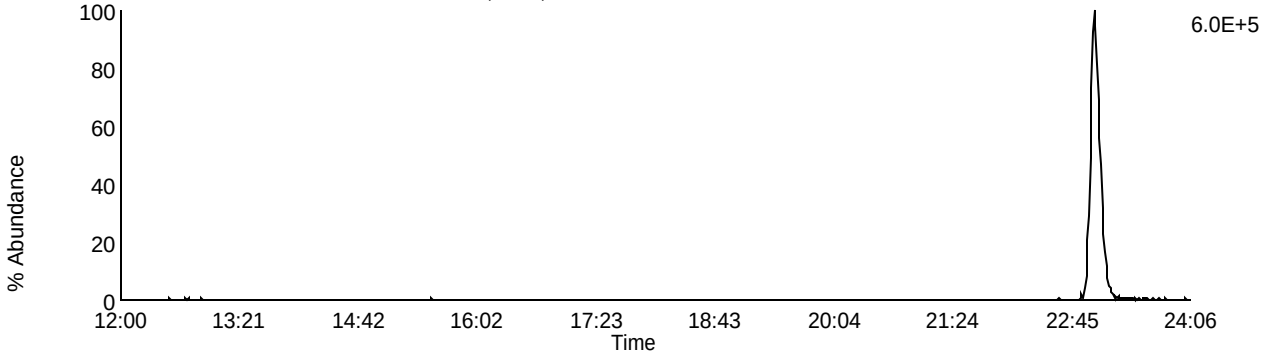
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

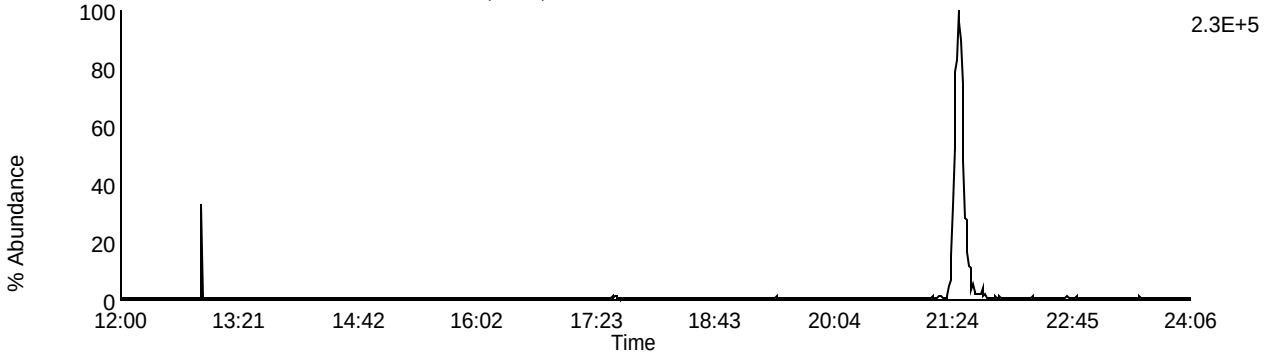
Data File: F140228B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



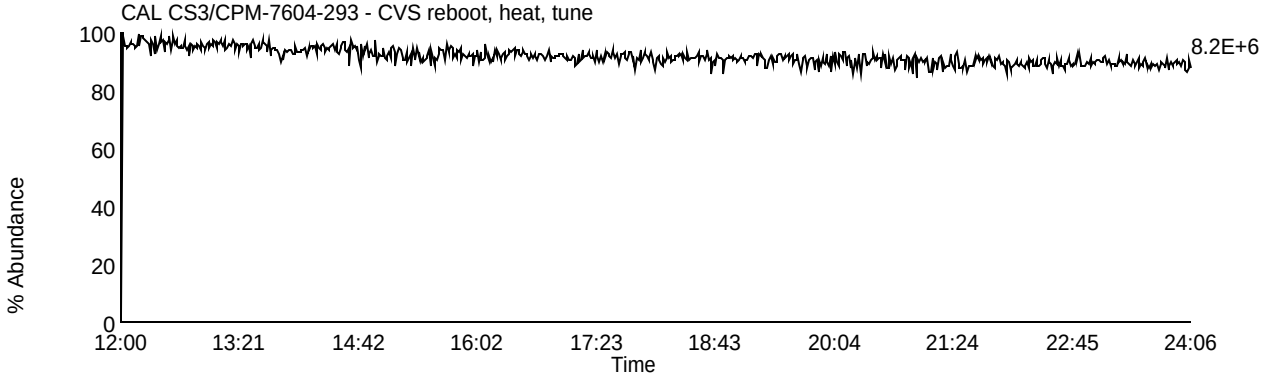
Data File: F140228B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

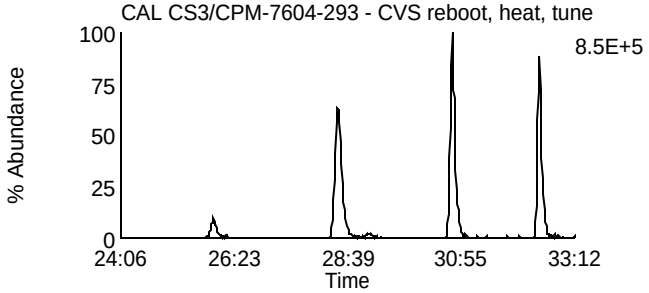


Homologue Group: Pentas

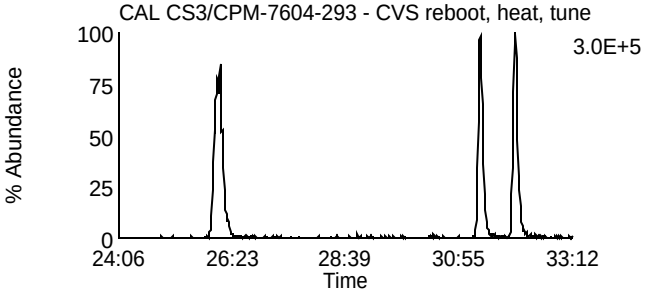
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

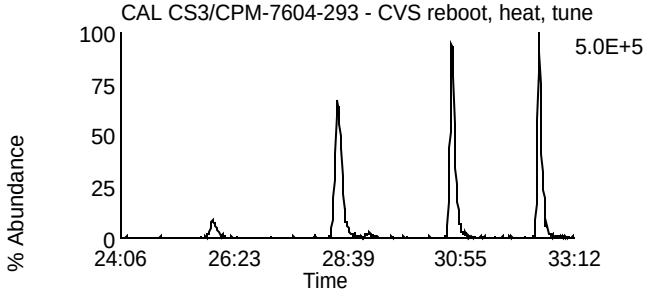
Data File: F140228B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



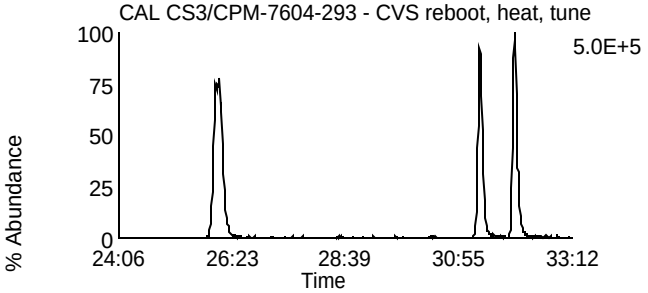
Data File: F140228B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



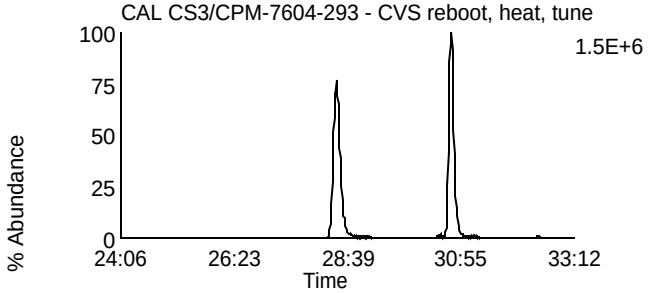
Data File: F140228B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



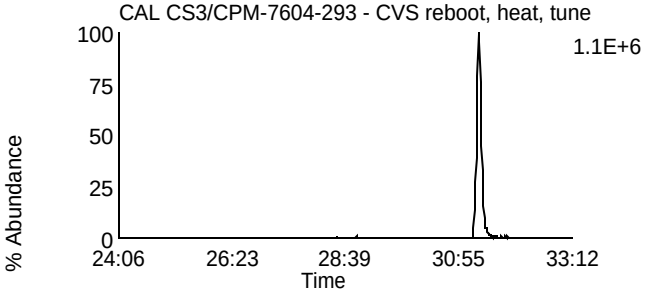
Data File: F140228B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



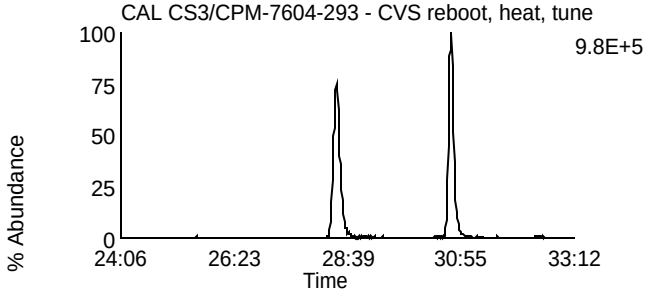
Data File: F140228B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



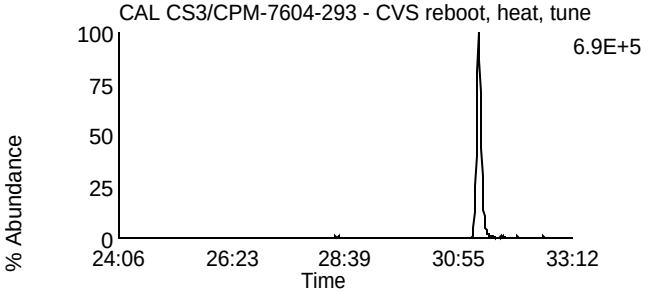
Data File: F140228B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



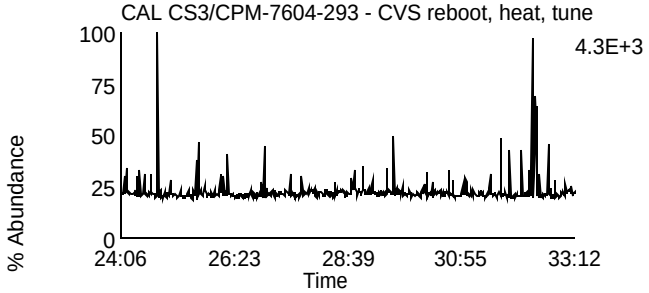
Data File: F140228B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



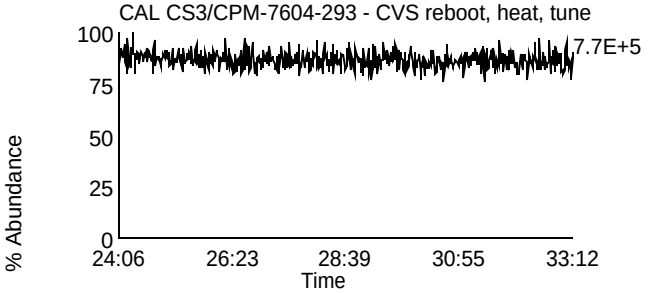
Data File: F140228B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

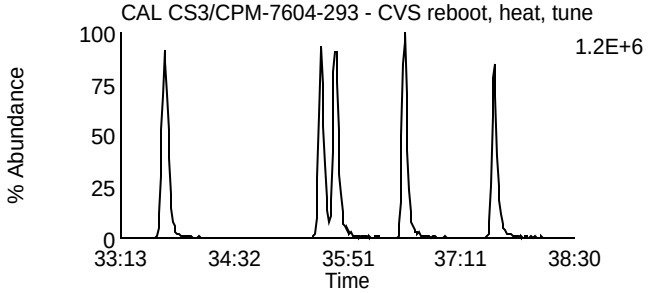


Homologue Group: Hexas

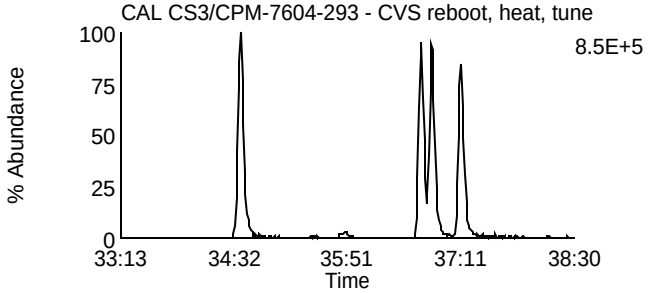
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

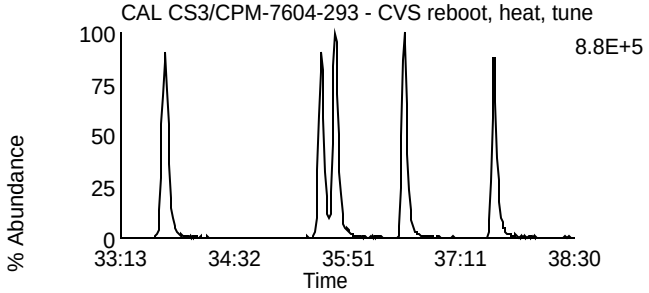
Data File: F140228B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



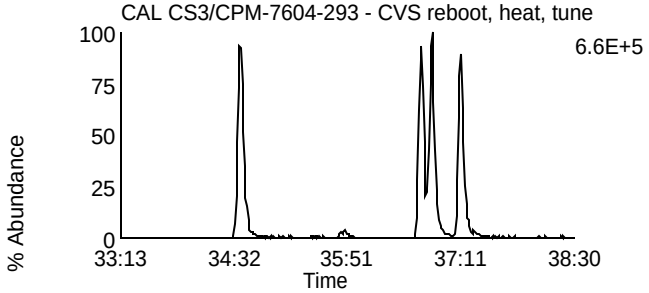
Data File: F140228B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



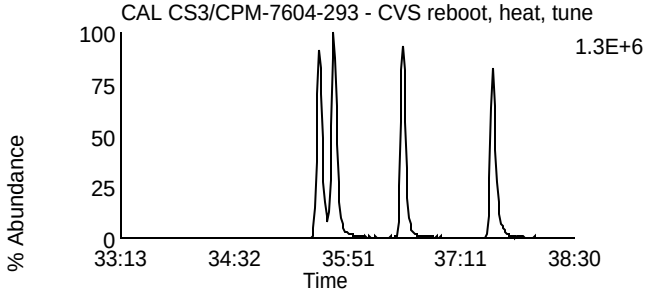
Data File: F140228B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



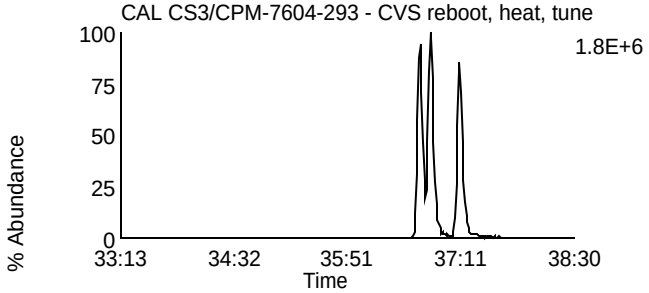
Data File: F140228B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



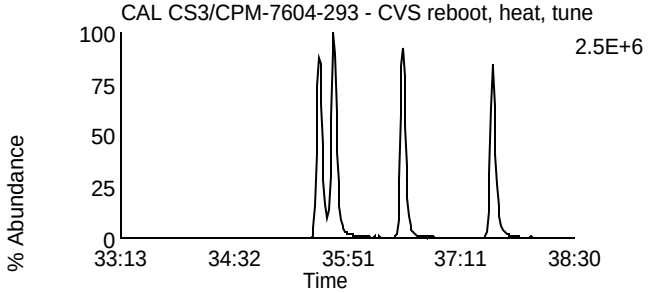
Data File: F140228B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



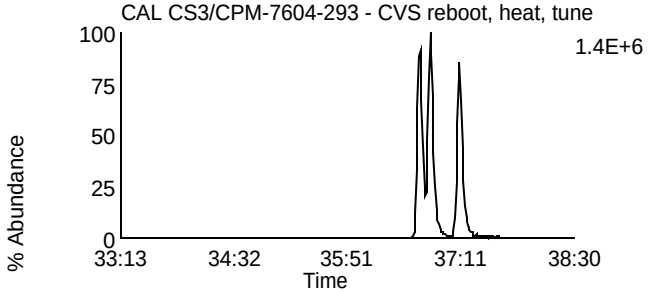
Data File: F140228B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



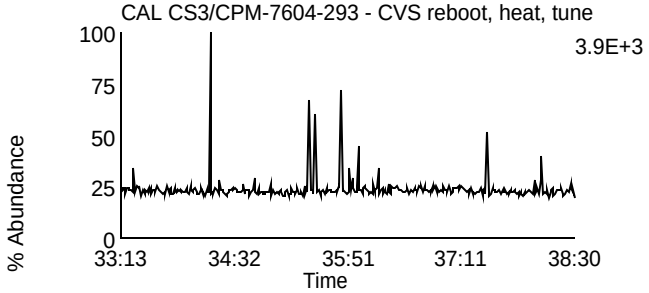
Data File: F140228B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



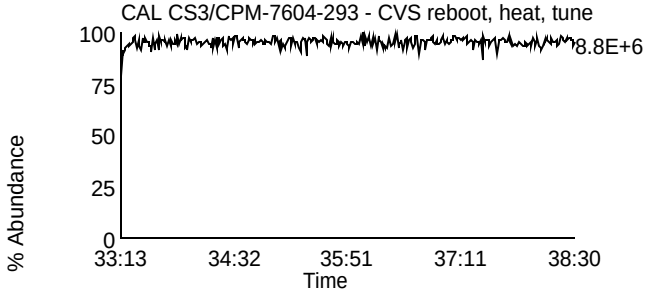
Data File: F140228B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

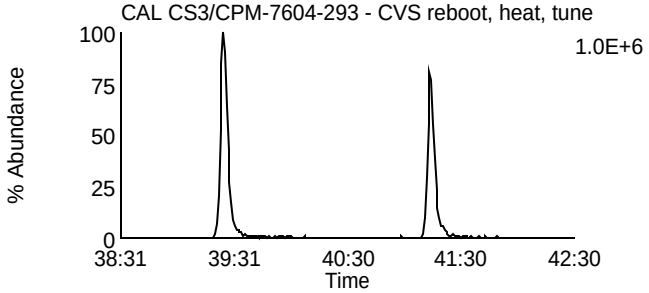


Homologue Group: Heptas

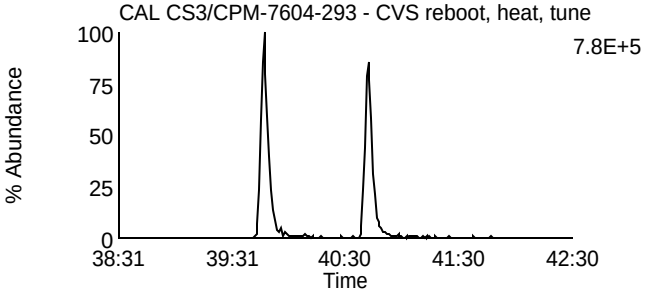
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

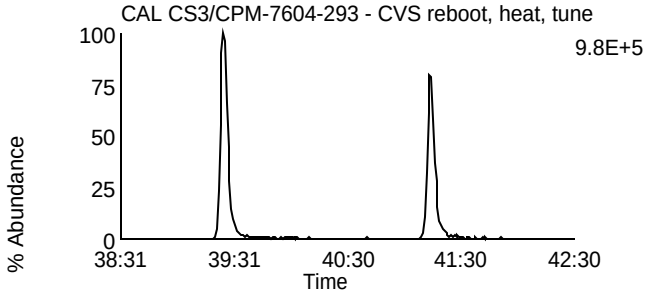
Data File: F140228B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



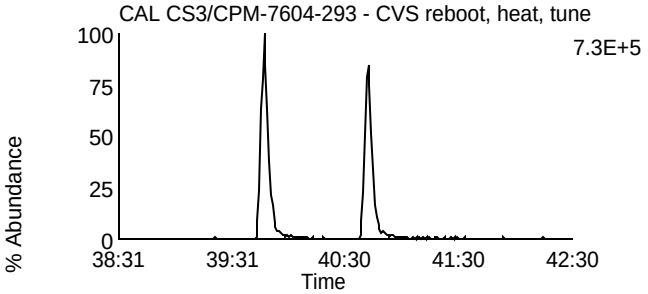
Data File: F140228B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



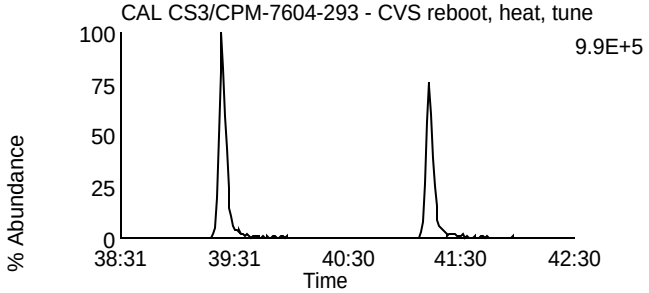
Data File: F140228B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



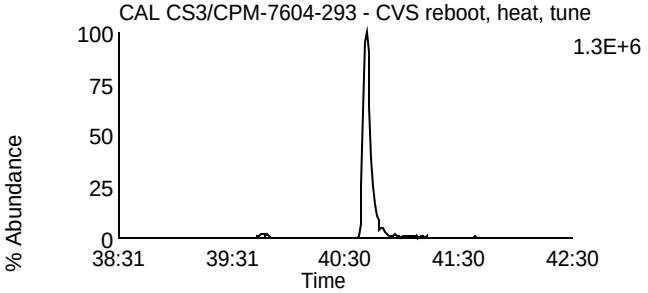
Data File: F140228B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



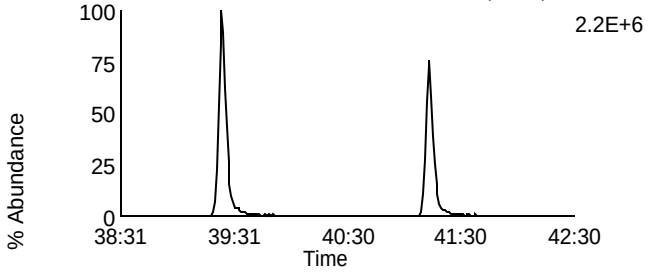
Data File: F140228B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



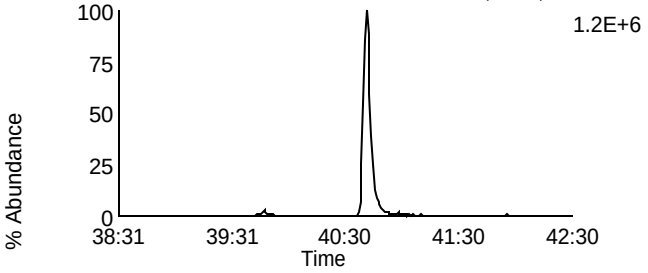
Data File: F140228B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



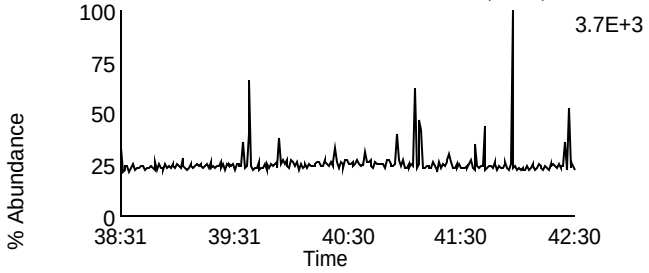
Data File: F140228B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



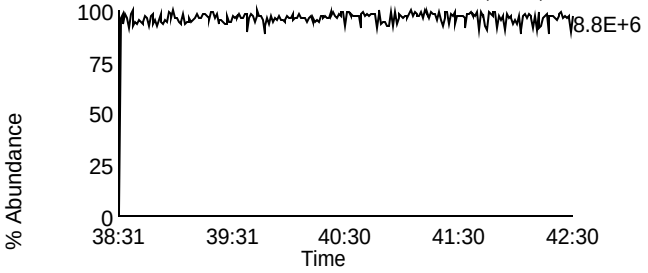
Data File: F140228B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

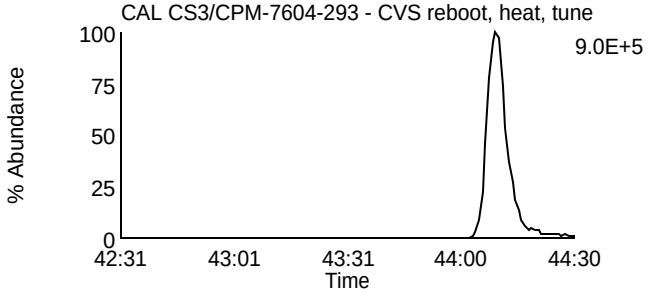


Homologue Group: Octas

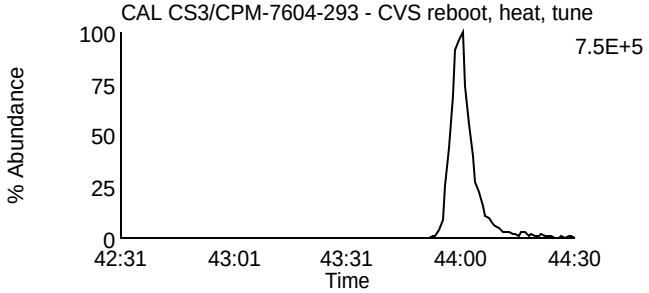
Data File Name: F140228B_01
Date Acquired: 2/28/2014
Sample Description: CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

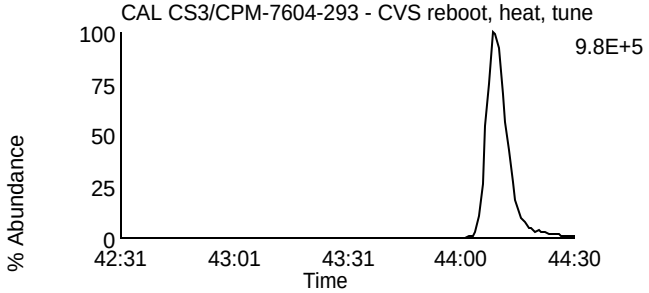
Data File: F140228B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



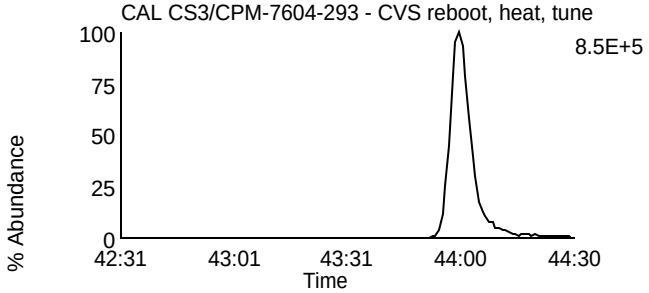
Data File: F140228B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



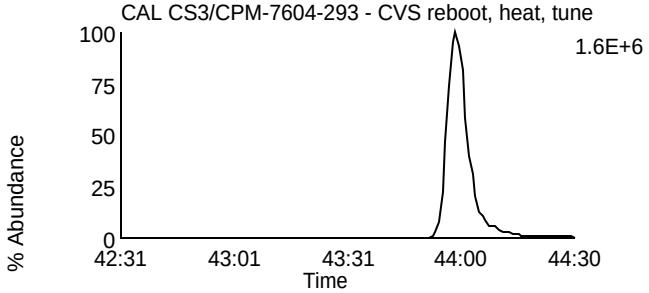
Data File: F140228B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



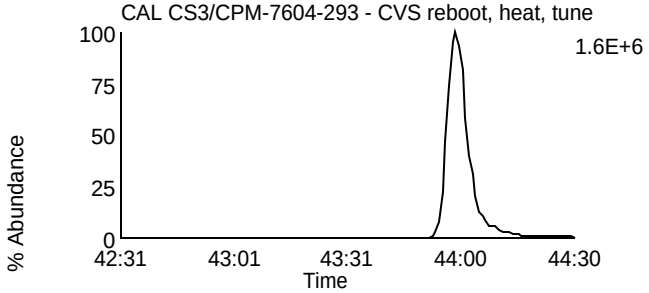
Data File: F140228B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



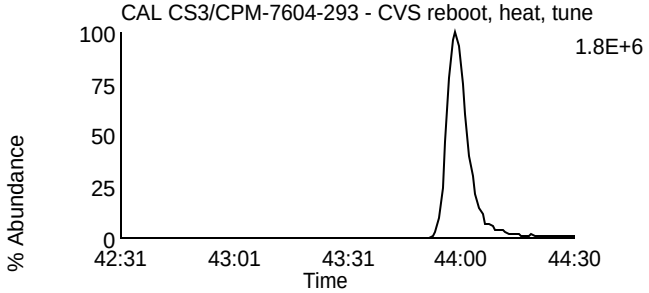
Data File: F140228B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



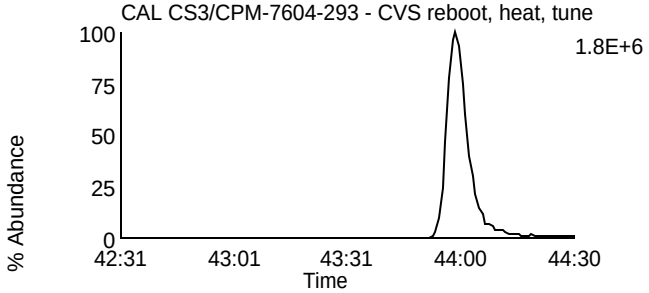
Data File: F140228B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



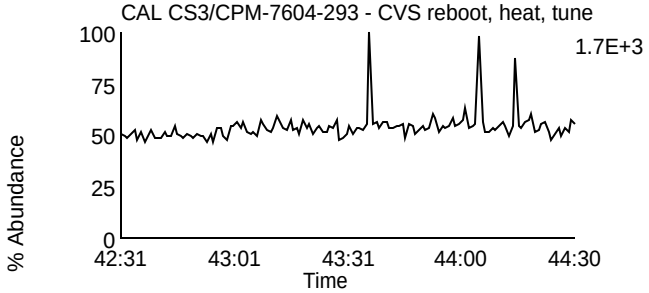
Data File: F140228B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



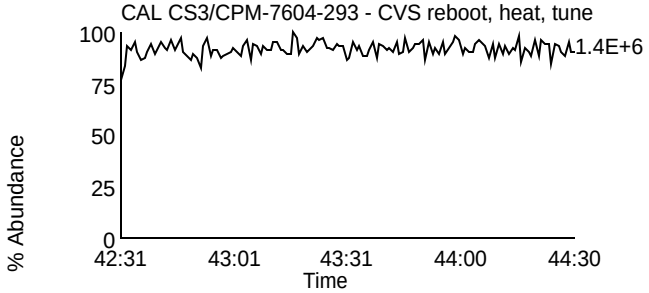
Data File: F140228B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune



Data File: F140228B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - CVS reboot, heat, tune

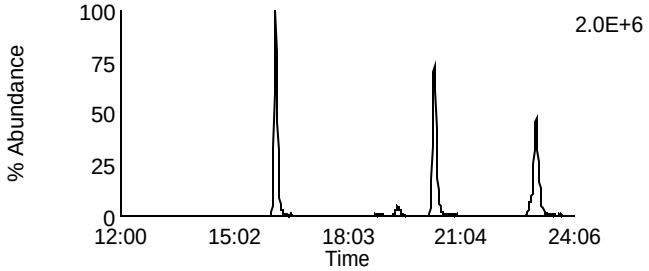


Homologue Group: Tetras

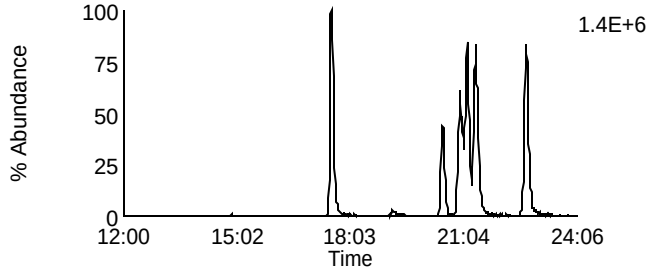
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

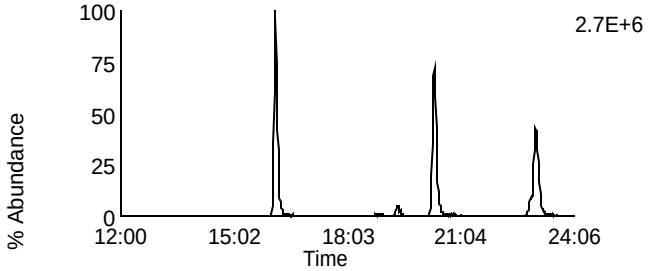
Data File: F140301B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - BAL TC



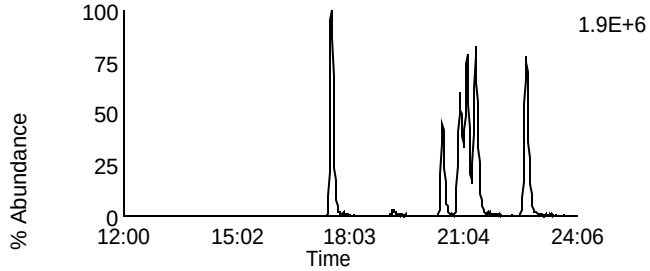
Data File: F140301B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - BAL TC



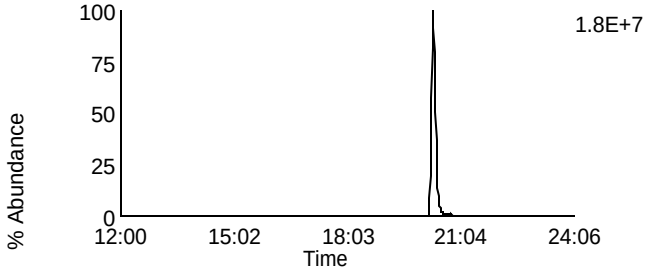
Data File: F140301B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - BAL TC



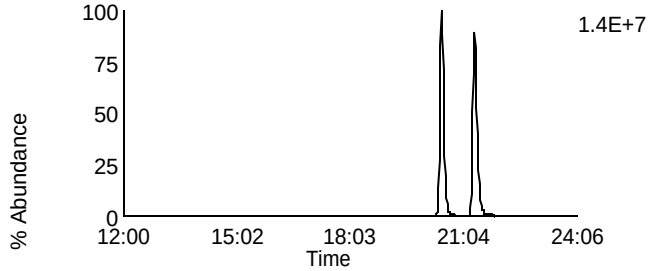
Data File: F140301B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - BAL TC



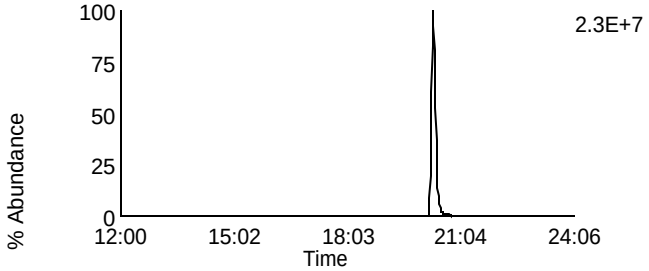
Data File: F140301B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - BAL TC



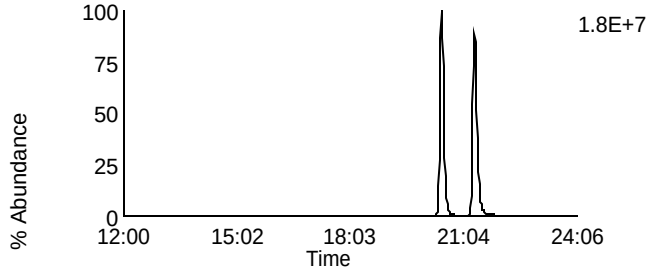
Data File: F140301B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - BAL TC



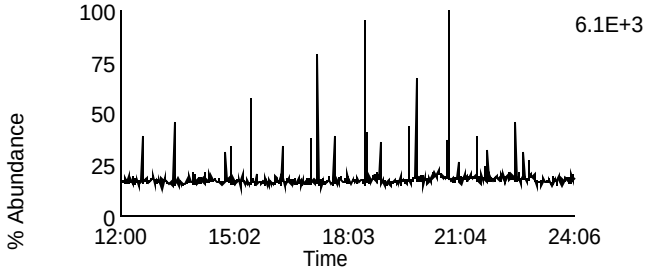
Data File: F140301B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - BAL TC



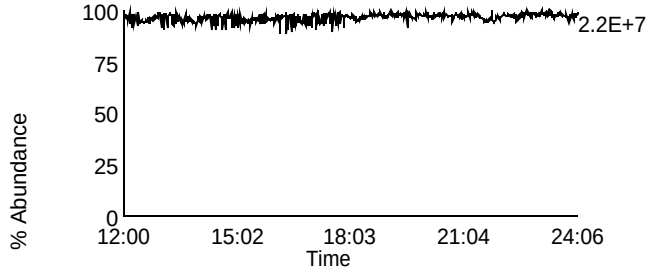
Data File: F140301B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - BAL TC

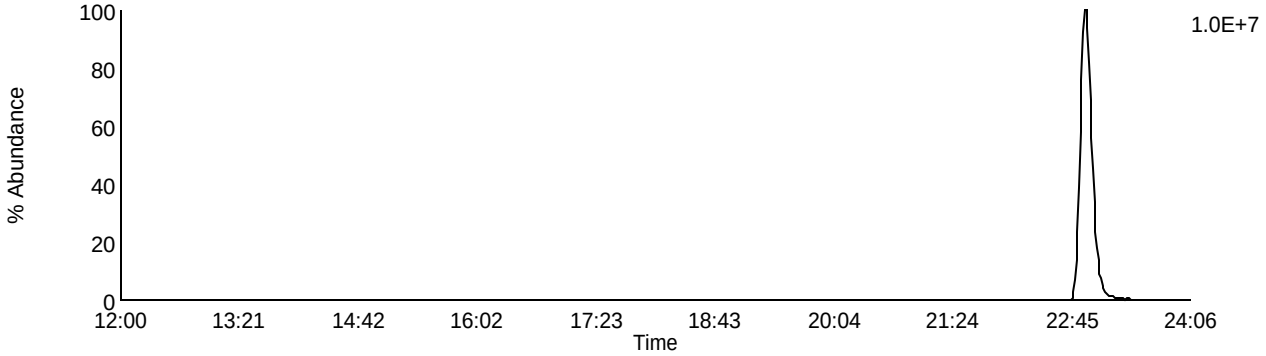


Homologue Group: Penta & Cleanup

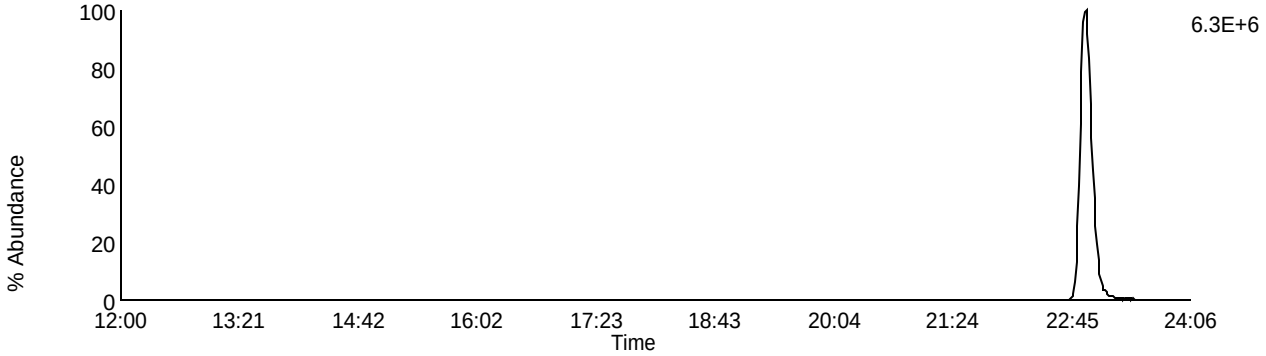
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

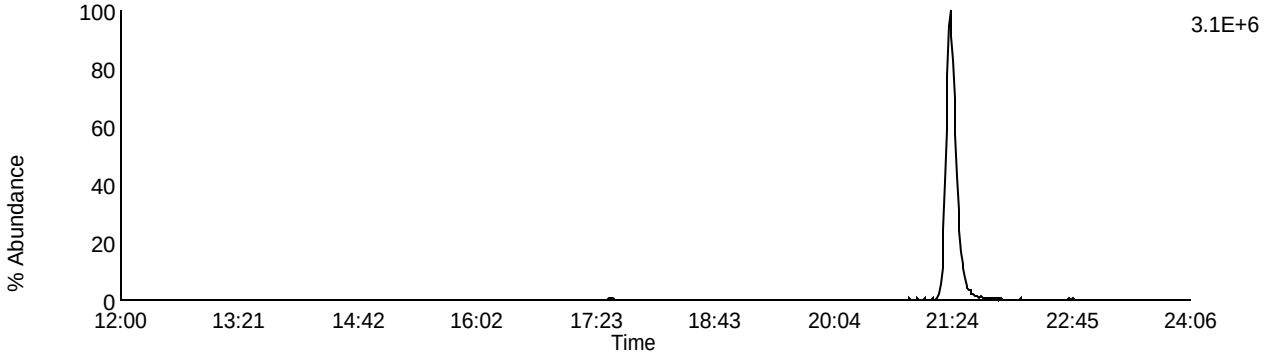
Data File: F140301B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - BAL TC



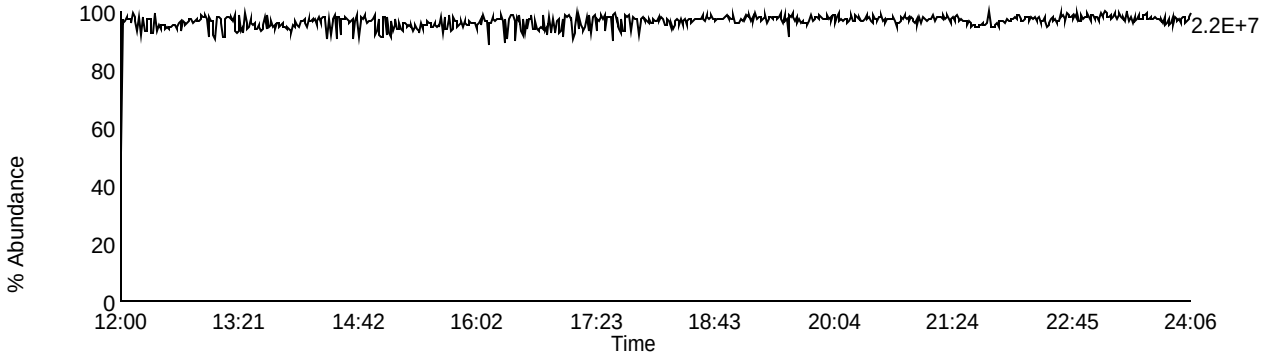
Data File: F140301B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - BAL TC

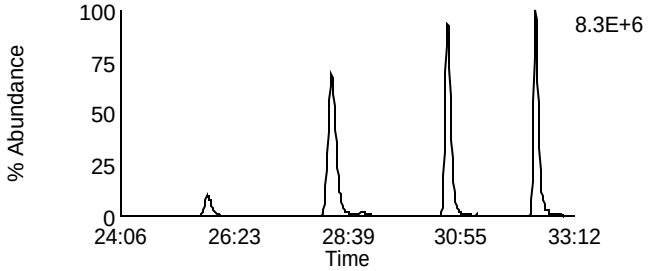


Homologue Group: Pentas

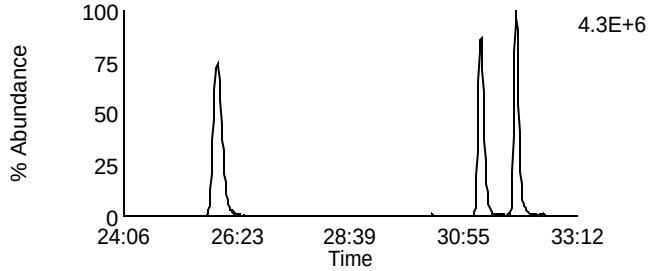
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

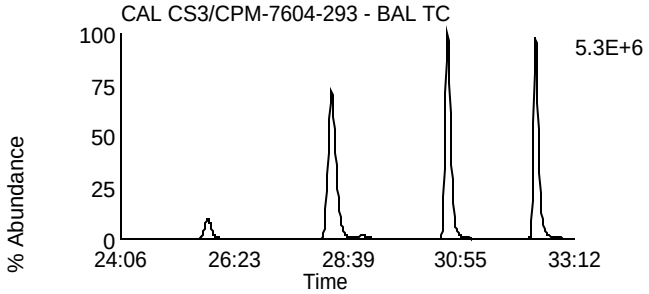
Data File: F140301B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - BAL TC



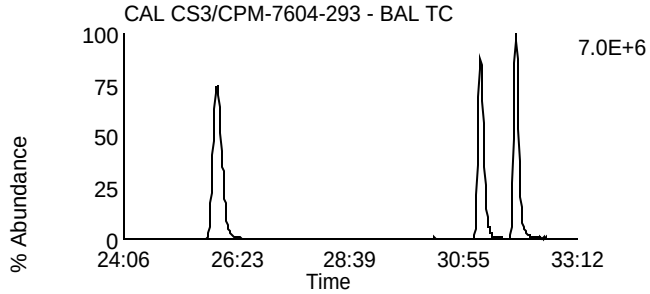
Data File: F140301B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - BAL TC



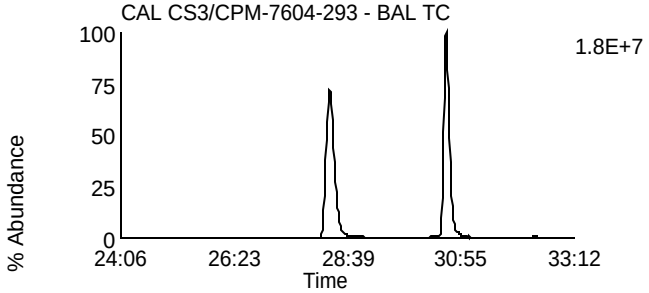
Data File: F140301B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - BAL TC



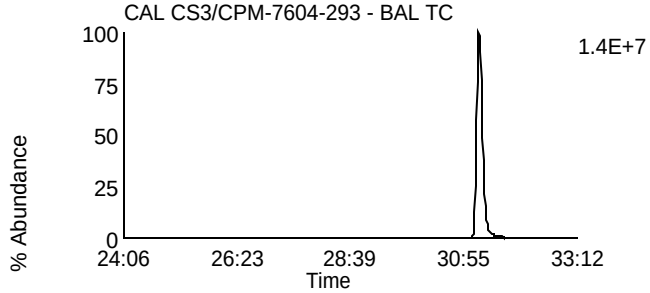
Data File: F140301B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - BAL TC



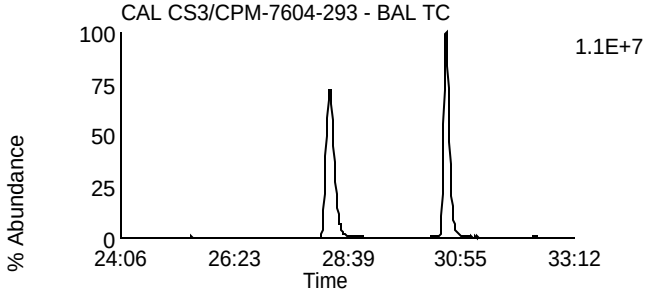
Data File: F140301B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - BAL TC



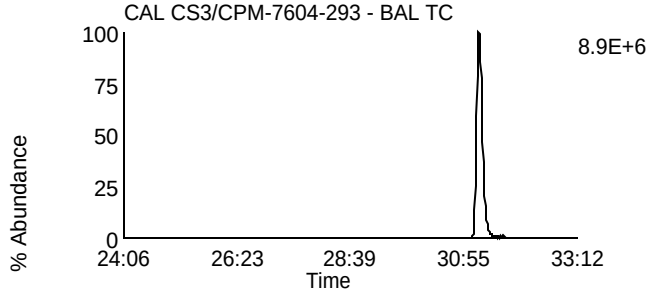
Data File: F140301B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - BAL TC



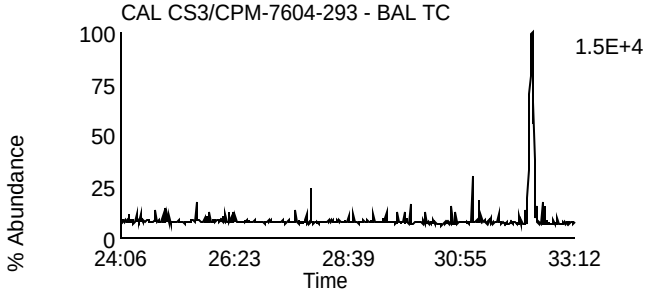
Data File: F140301B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - BAL TC



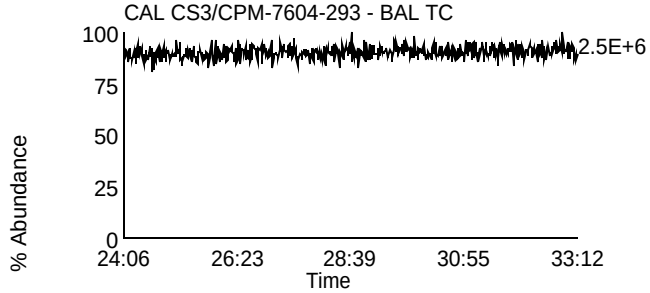
Data File: F140301B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - BAL TC

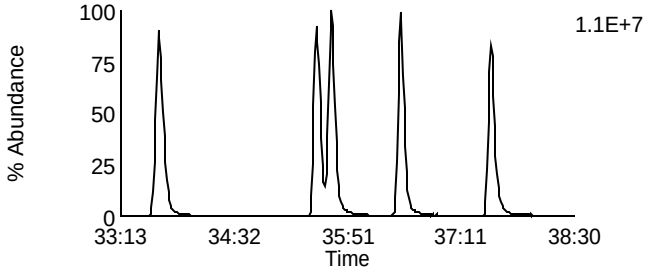


Homologue Group: Hexas

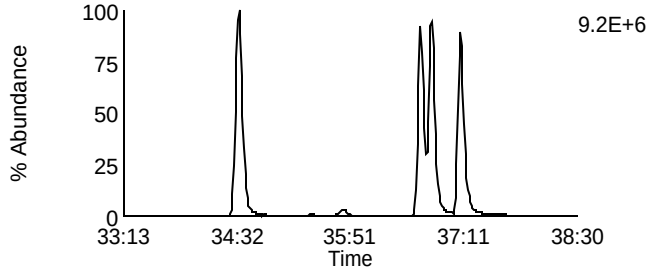
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

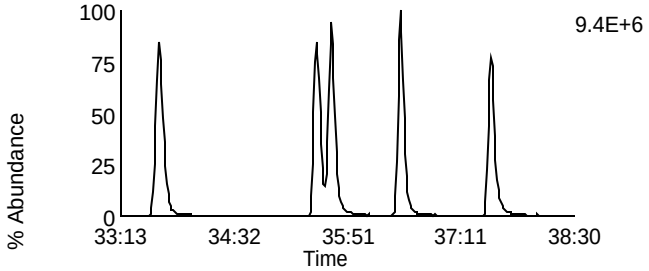
Data File: F140301B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - BAL TC



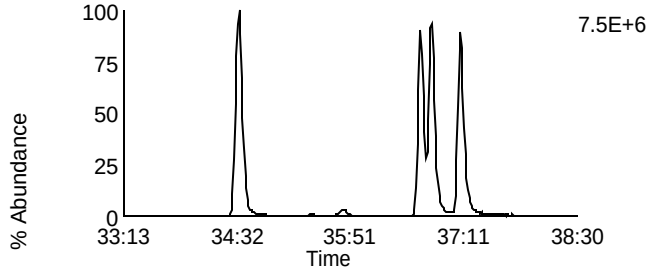
Data File: F140301B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - BAL TC



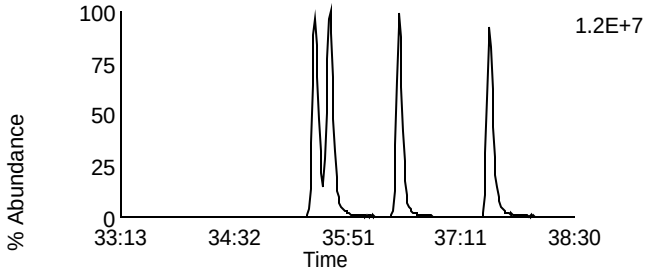
Data File: F140301B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - BAL TC



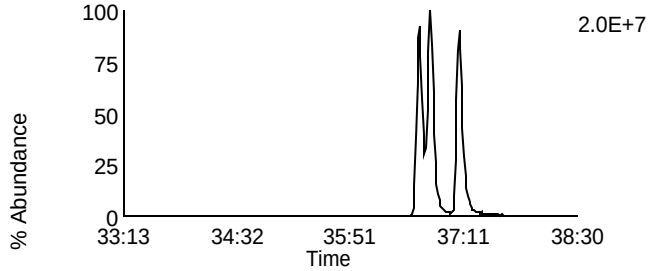
Data File: F140301B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - BAL TC



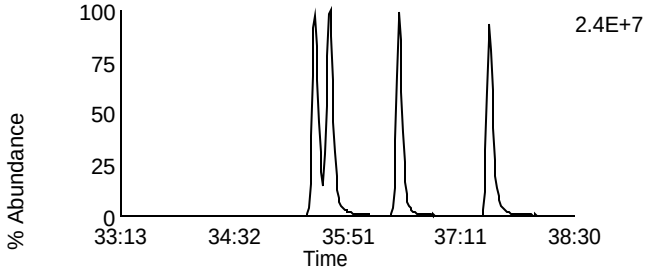
Data File: F140301B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - BAL TC



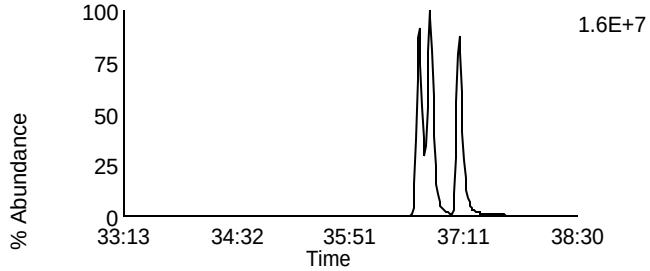
Data File: F140301B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - BAL TC



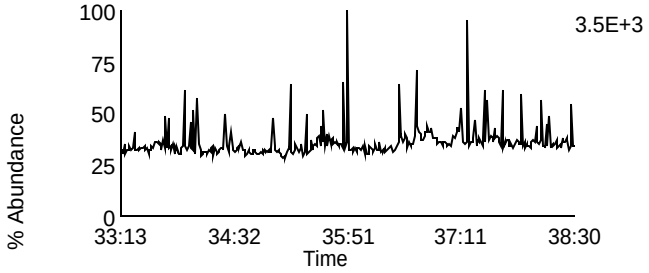
Data File: F140301B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - BAL TC



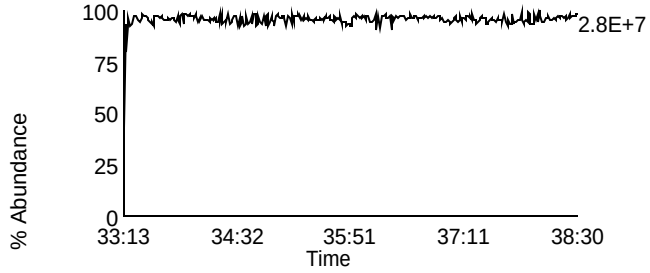
Data File: F140301B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-293 - BAL TC

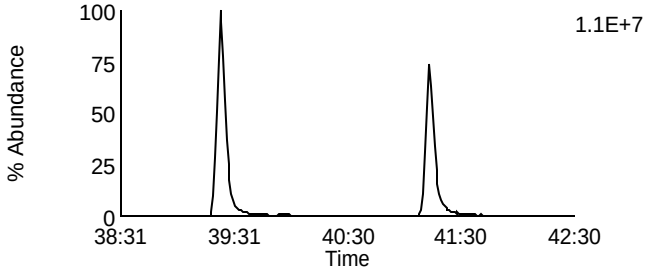


Homologue Group: Heptas

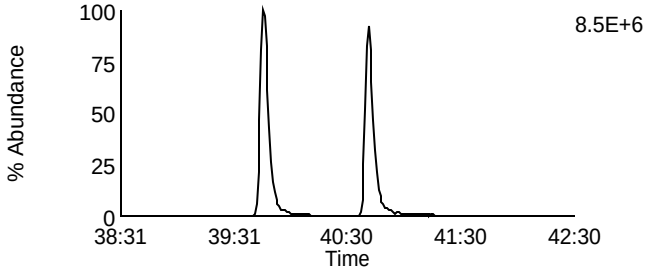
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

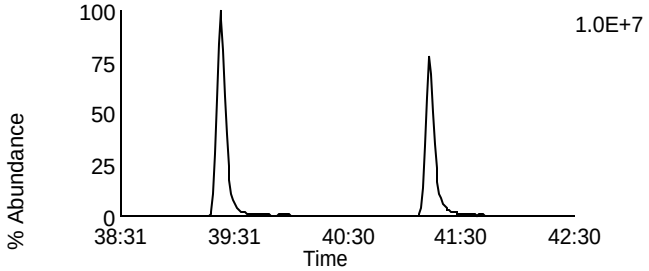
Data File: F140301B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-293 - BAL TC



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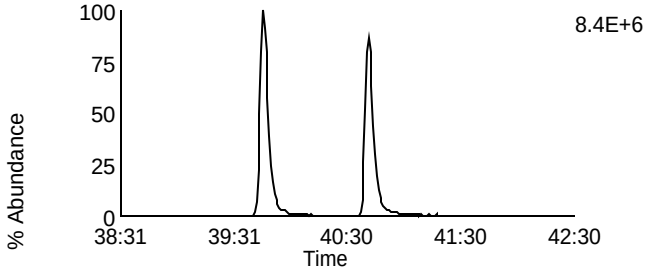
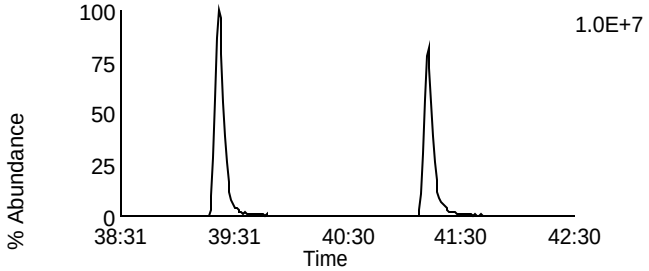
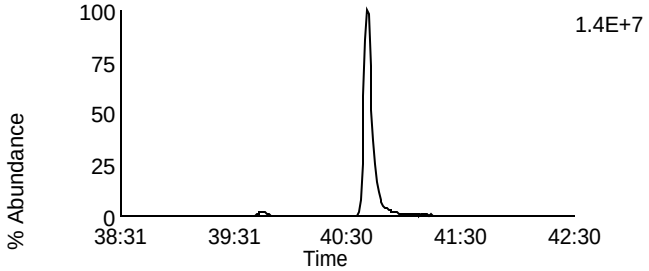
CAL CS3/CPM-7604-293 - BAL TC



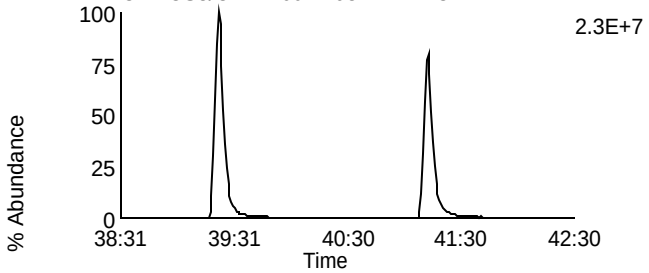
Data File: F140301B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-293 - BAL TC



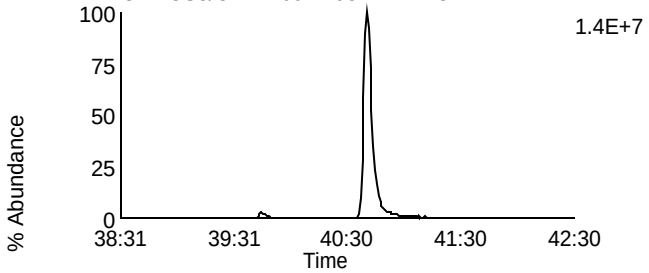
Data File: F140301B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-293 - BAL TC



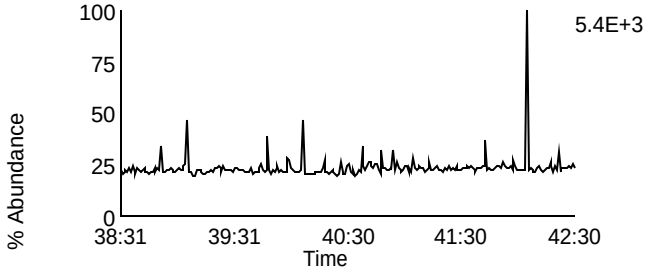
Data File: F140301B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-293 - BAL TC



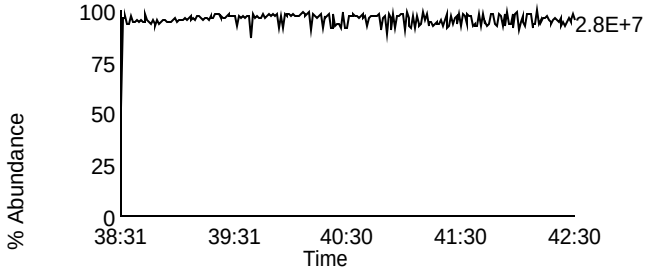
Data File: F140301B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-293 - BAL TC

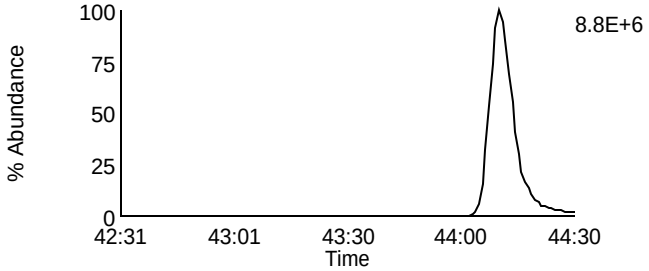


Homologue Group: Octas

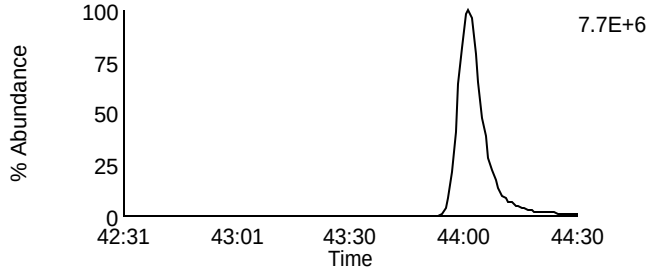
Data File Name: F140301B_01
Date Acquired: 3/1/2014
Sample Description: CAL CS3/CPM-7604-293 - BAL TC

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

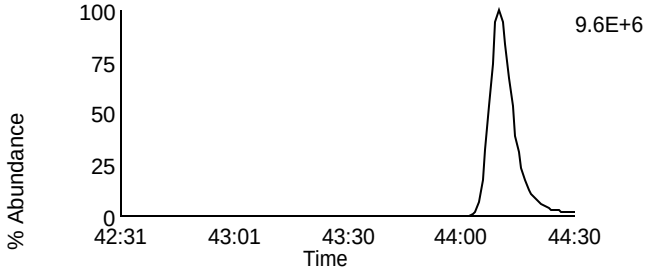
Data File: F140301B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - BAL TC



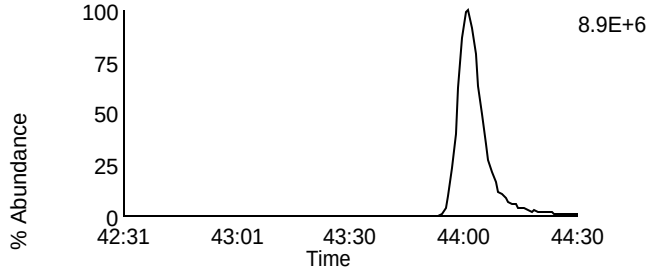
Data File: F140301B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-293 - BAL TC



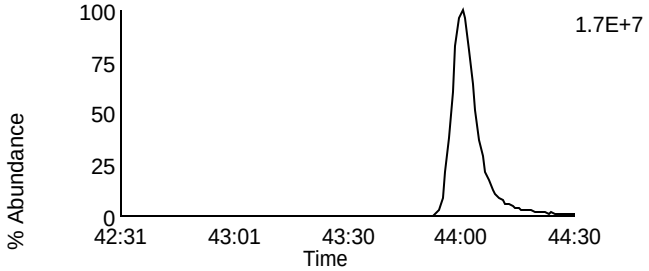
Data File: F140301B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-293 - BAL TC



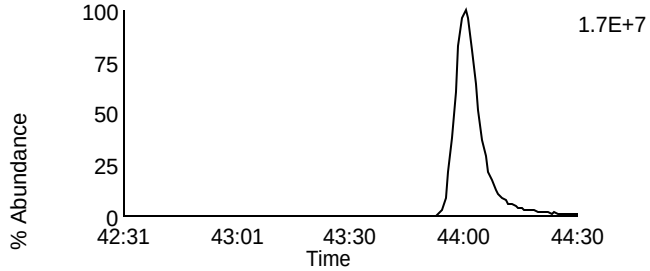
Data File: F140301B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-293 - BAL TC



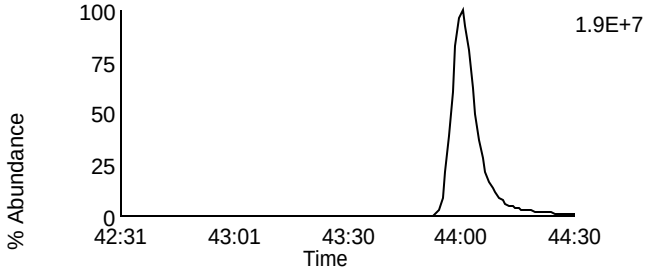
Data File: F140301B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - BAL TC



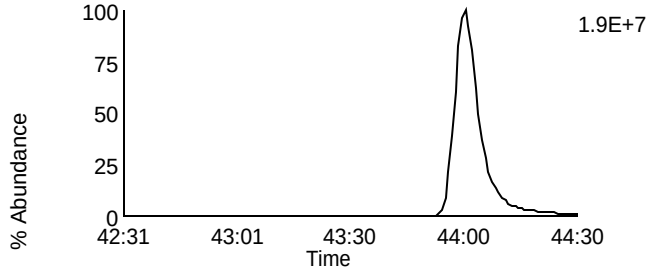
Data File: F140301B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-293 - BAL TC



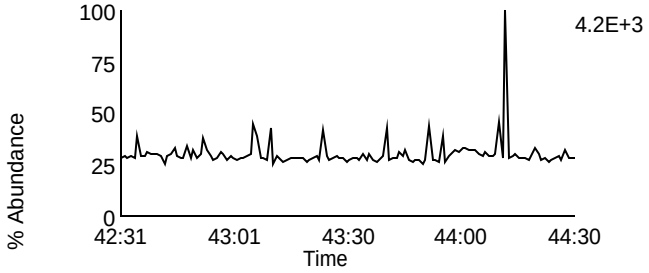
Data File: F140301B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - BAL TC



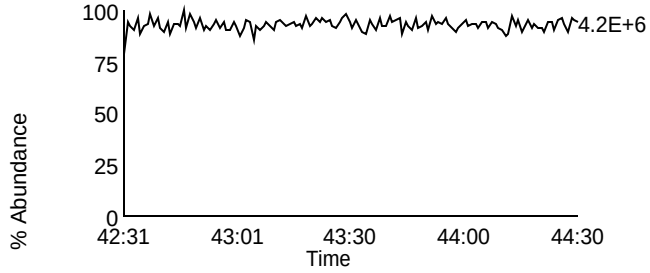
Data File: F140301B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-293 - BAL TC



Data File: F140301B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-293 - BAL TC

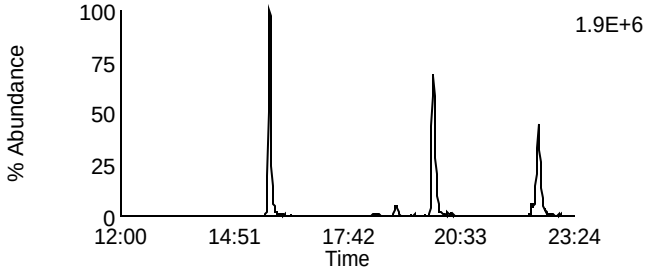


Homologue Group: Tetras

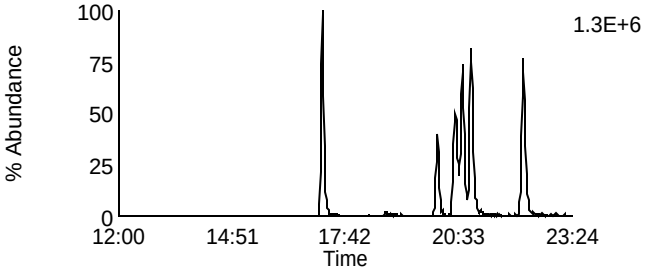
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

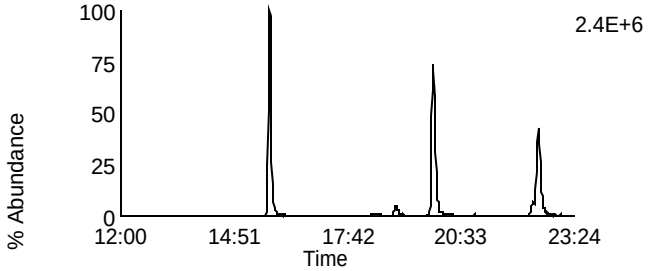
Data File: F140306A_23 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - SMT



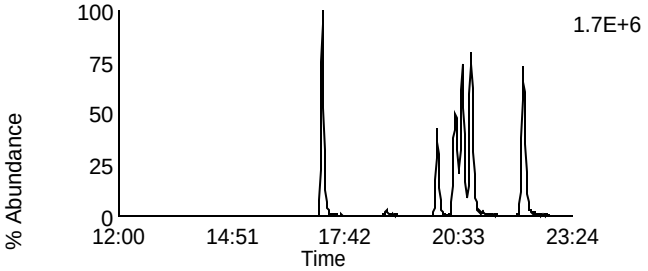
Data File: F140306A_23 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - SMT



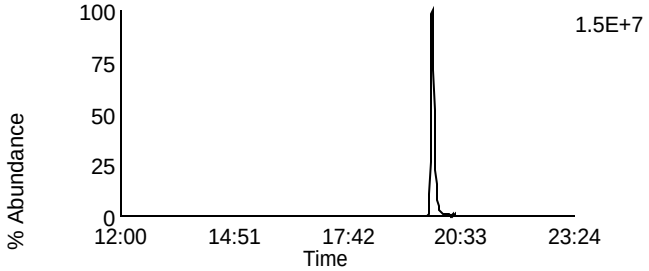
Data File: F140306A_23 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - SMT



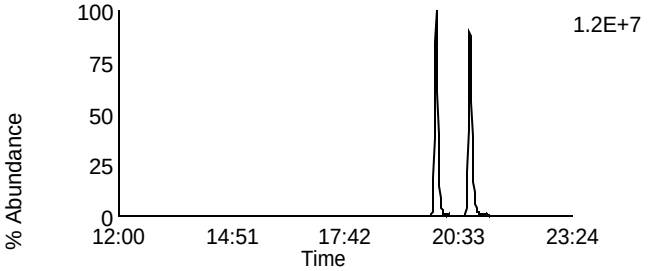
Data File: F140306A_23 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - SMT



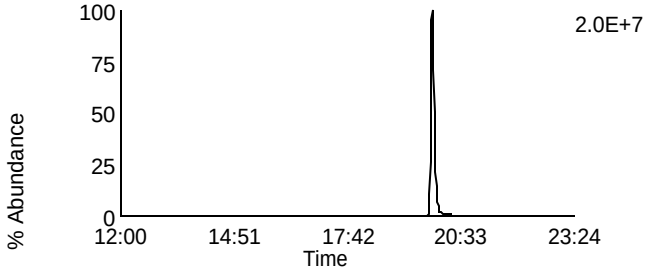
Data File: F140306A_23 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - SMT



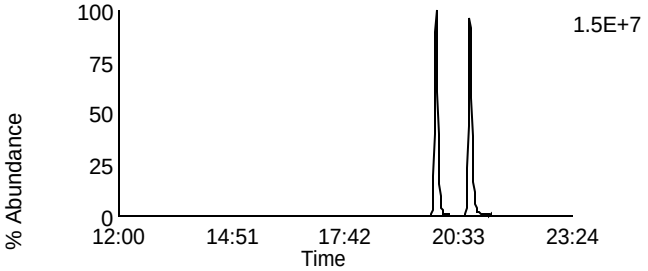
Data File: F140306A_23 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - SMT



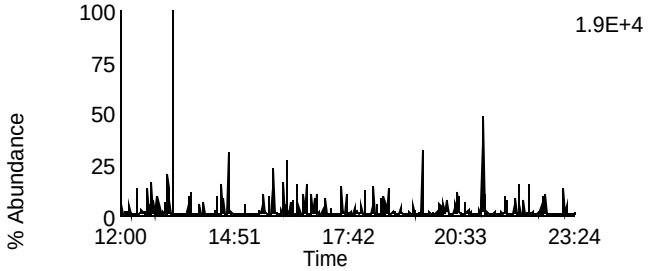
Data File: F140306A_23 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - SMT



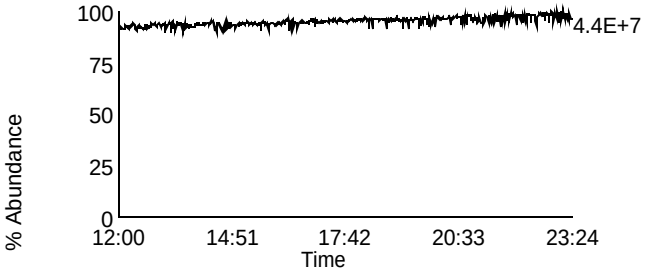
Data File: F140306A_23 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

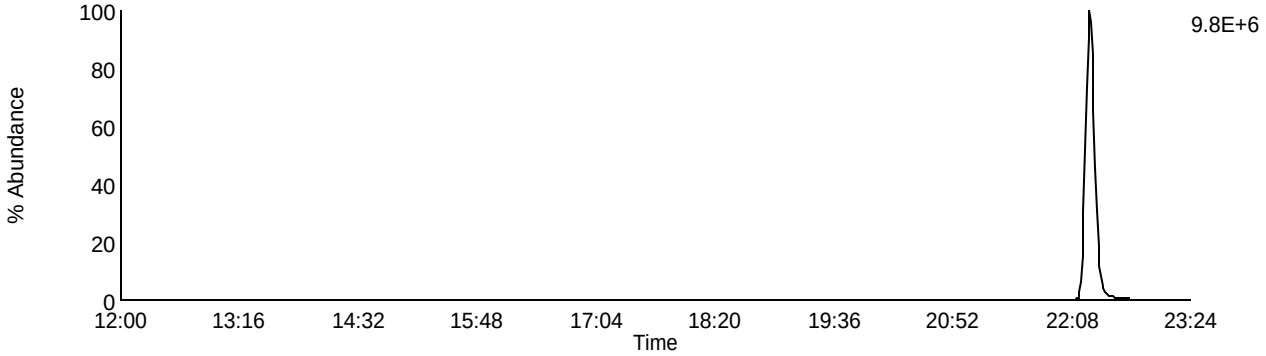


Homologue Group: Penta & Cleanup

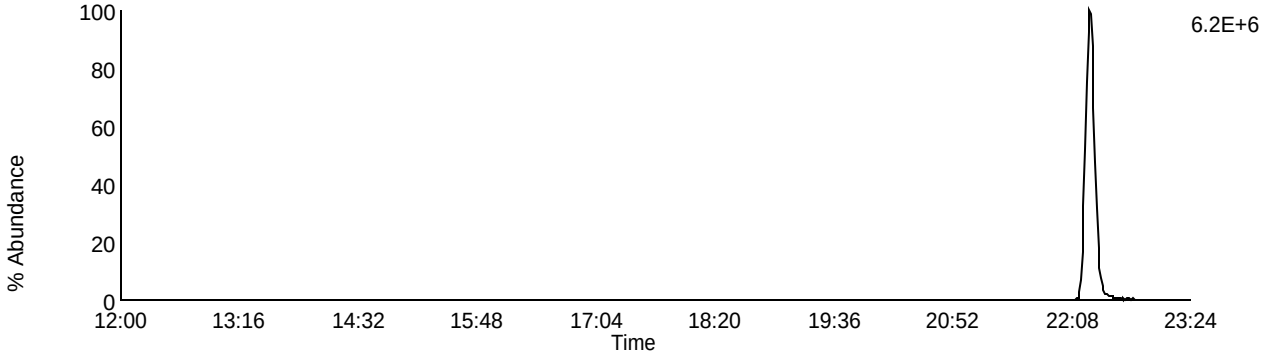
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

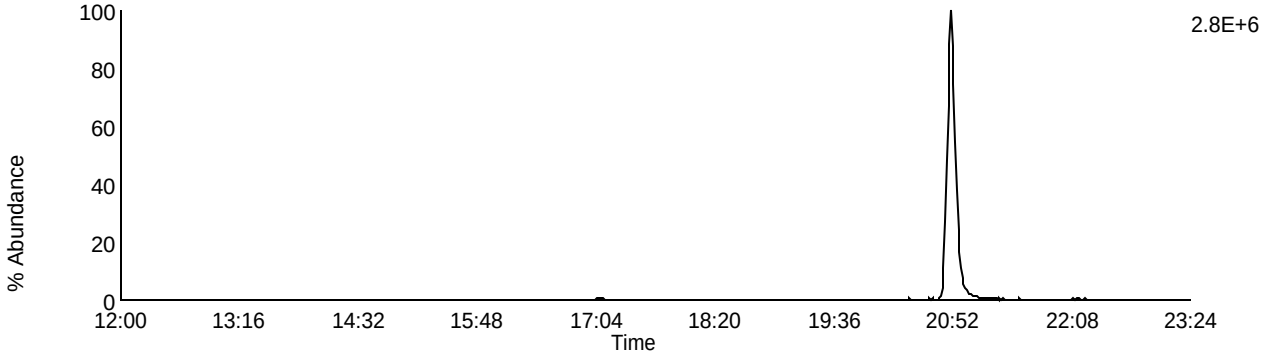
Data File: F140306A_23 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - SMT



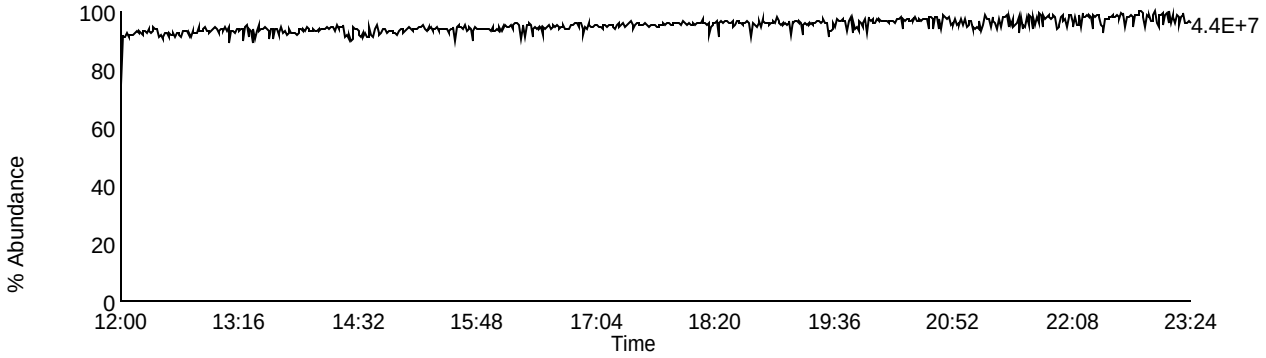
Data File: F140306A_23 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

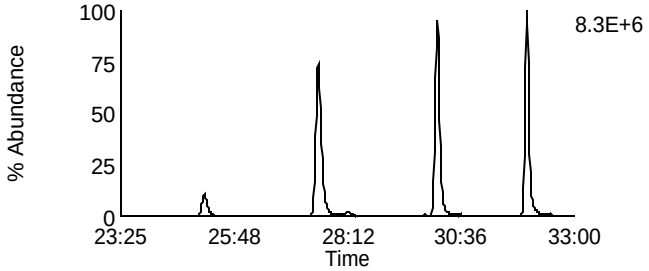


Homologue Group: Pentas

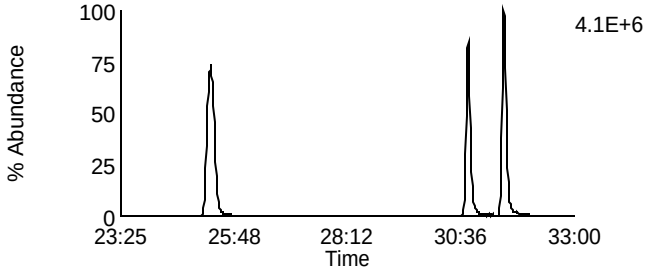
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

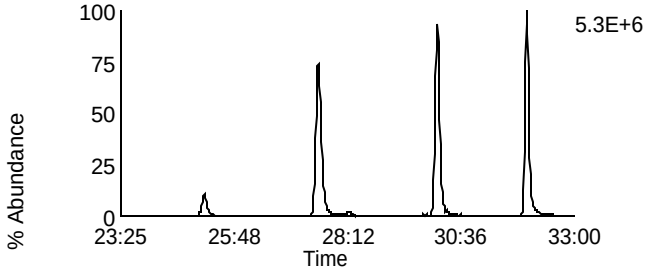
Data File: F140306A_23 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - SMT



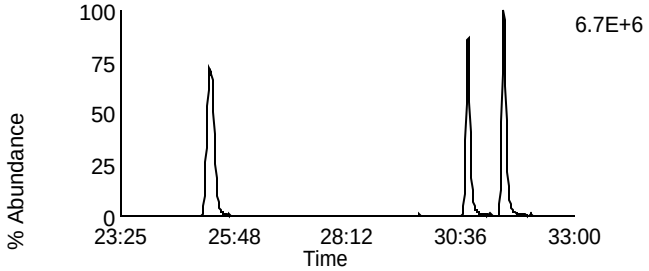
Data File: F140306A_23 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - SMT



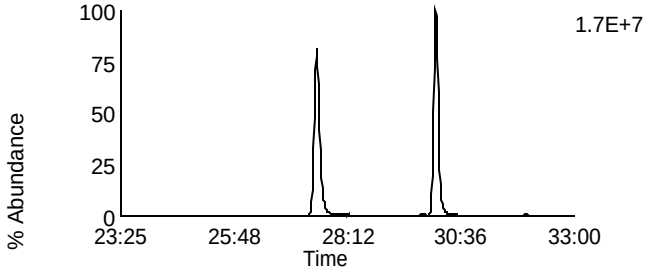
Data File: F140306A_23 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - SMT



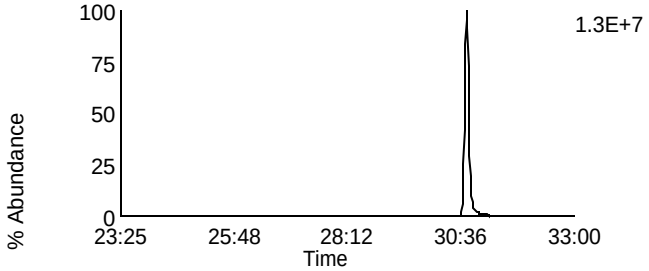
Data File: F140306A_23 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - SMT



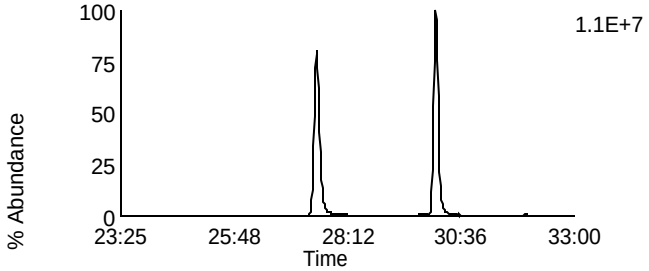
Data File: F140306A_23 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - SMT



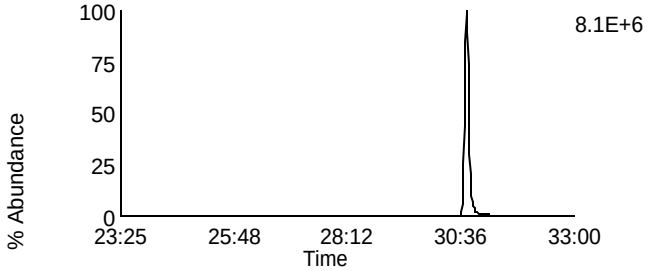
Data File: F140306A_23 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - SMT



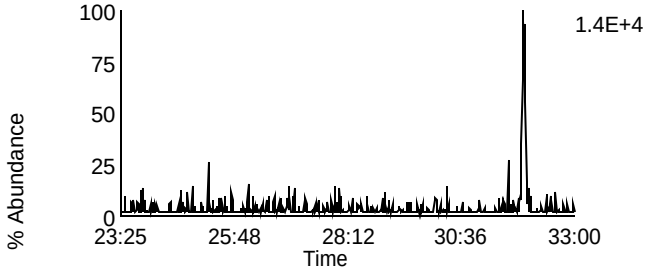
Data File: F140306A_23 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - SMT



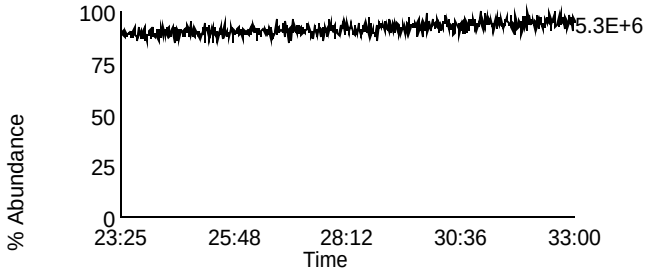
Data File: F140306A_23 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - SMT

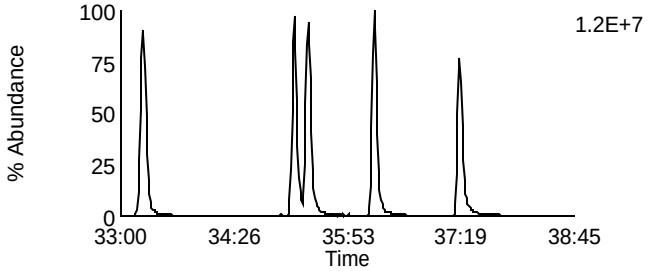


Homologue Group: Hexas

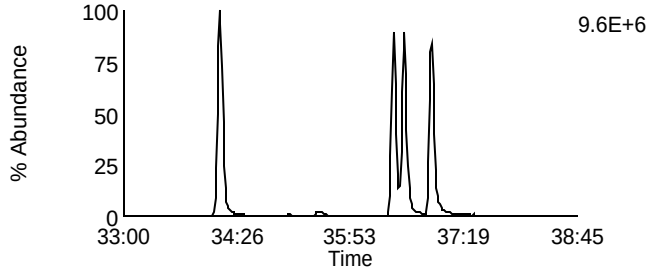
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

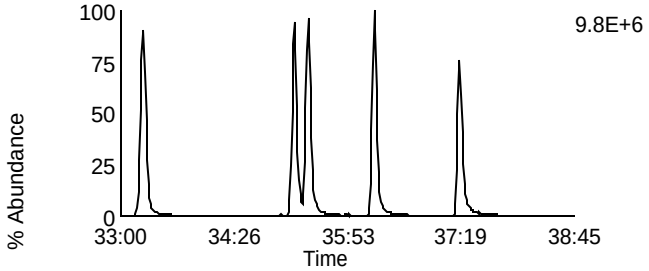
Data File: F140306A_23 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - SMT



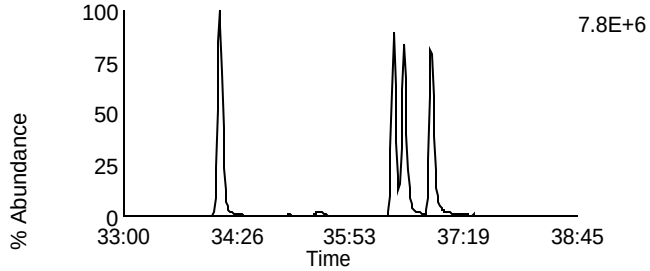
Data File: F140306A_23 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - SMT



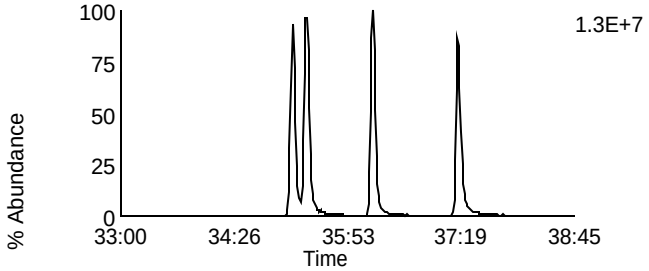
Data File: F140306A_23 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - SMT



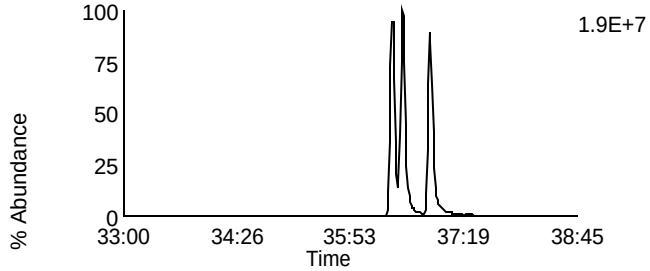
Data File: F140306A_23 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - SMT



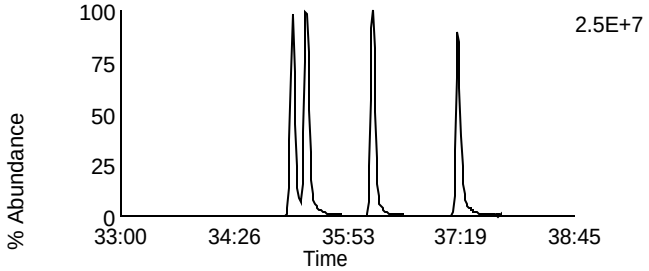
Data File: F140306A_23 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - SMT



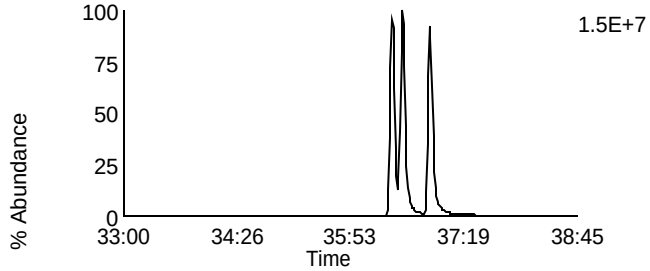
Data File: F140306A_23 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - SMT



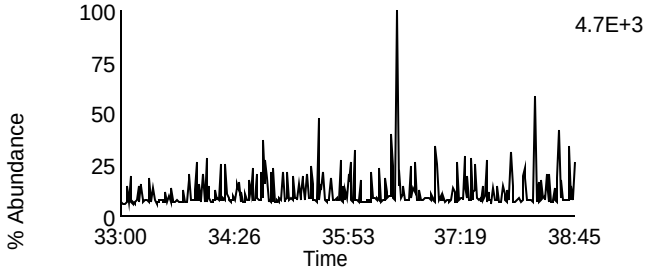
Data File: F140306A_23 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - SMT



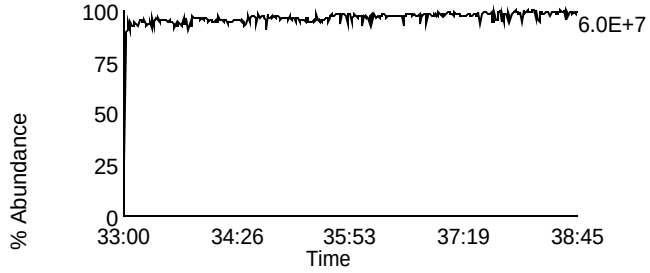
Data File: F140306A_23 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - SMT

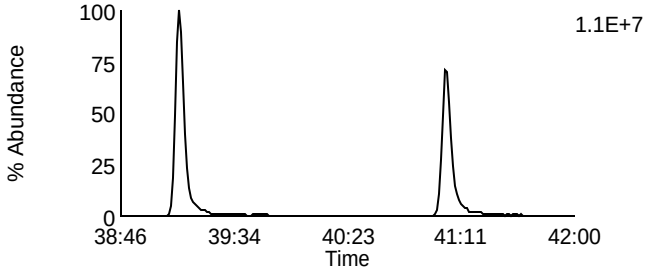


Homologue Group: Heptas

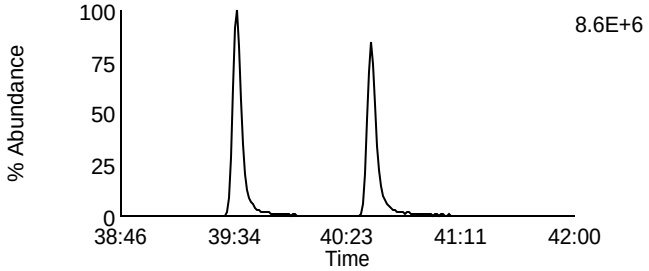
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

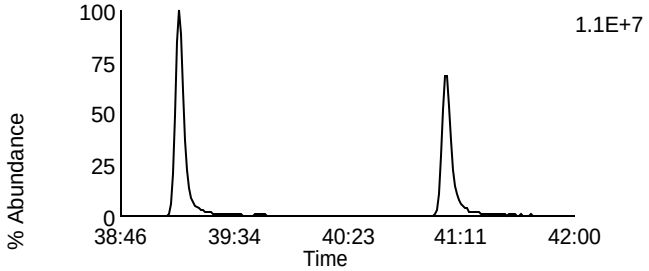
Data File: F140306A_23 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - SMT



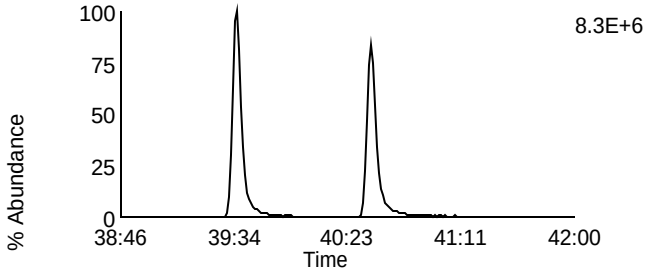
Data File: F140306A_23 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - SMT



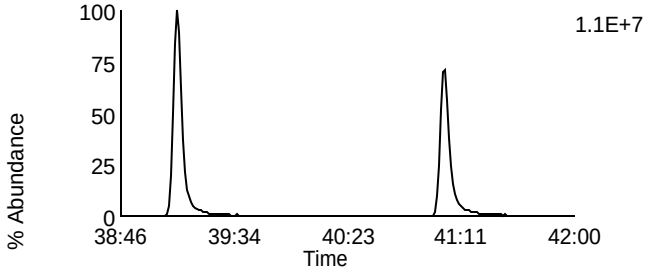
Data File: F140306A_23 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - SMT



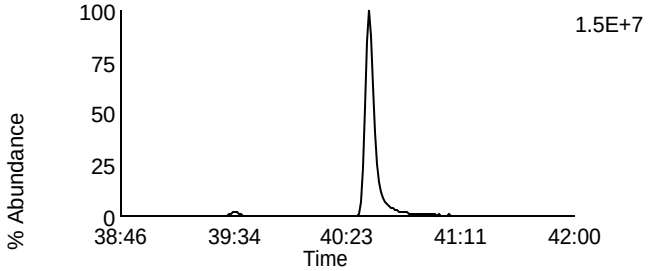
Data File: F140306A_23 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - SMT



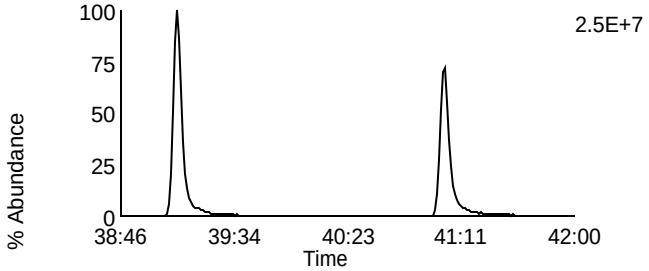
Data File: F140306A_23 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - SMT



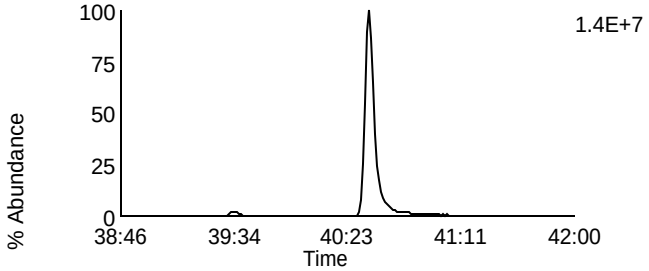
Data File: F140306A_23 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - SMT



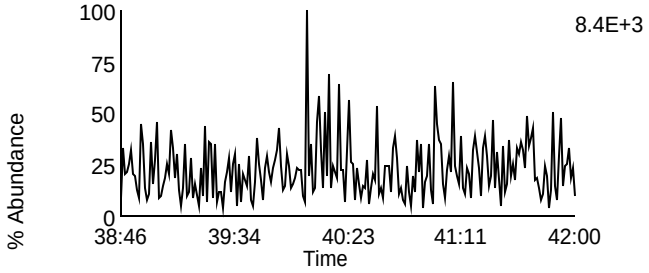
Data File: F140306A_23 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - SMT



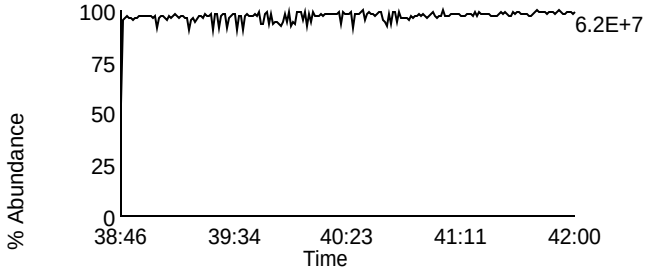
Data File: F140306A_23 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - SMT

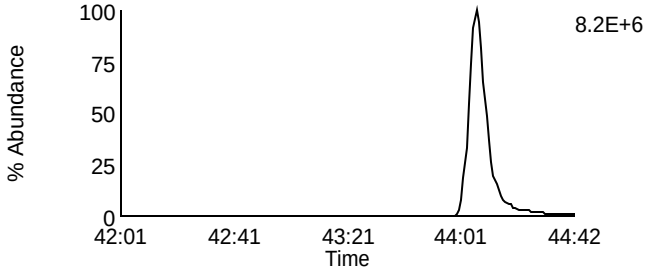


Homologue Group: Octas

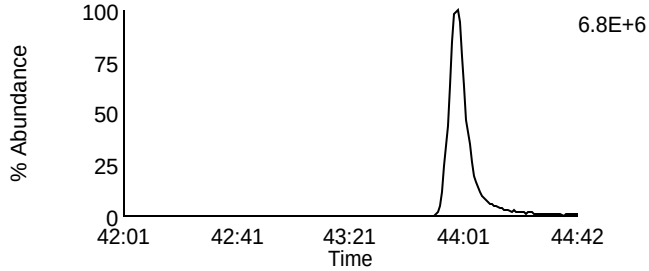
Data File Name: F140306A_23
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

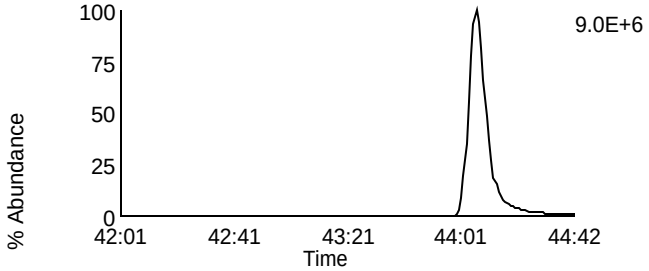
Data File: F140306A_23 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - SMT



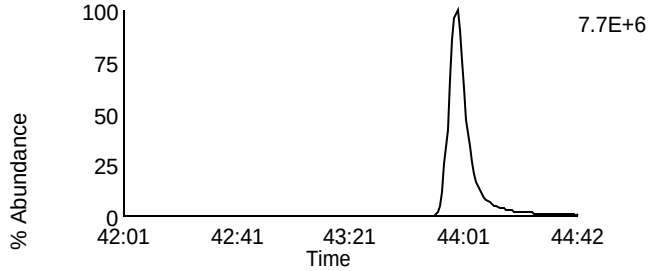
Data File: F140306A_23 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - SMT



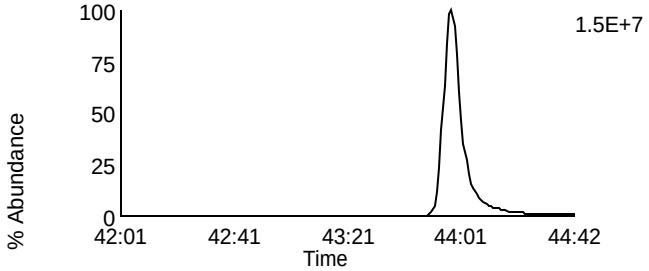
Data File: F140306A_23 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - SMT



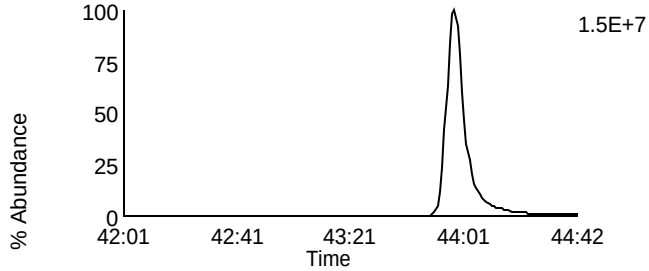
Data File: F140306A_23 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - SMT



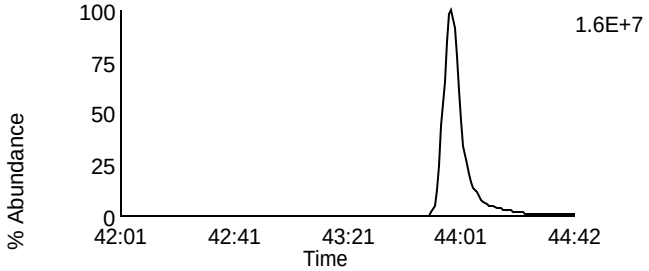
Data File: F140306A_23 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



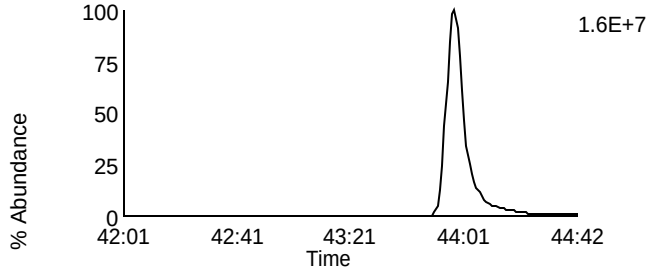
Data File: F140306A_23 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



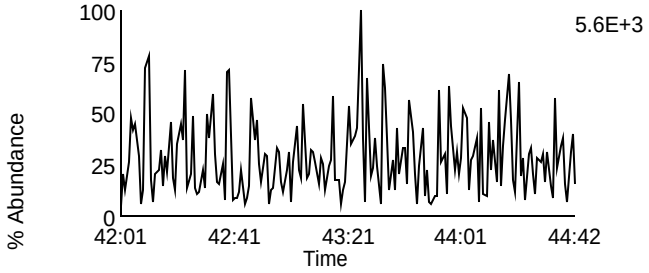
Data File: F140306A_23 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



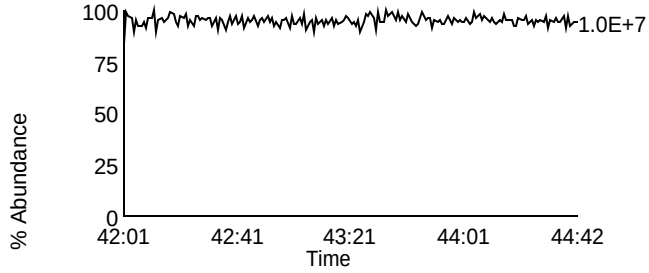
Data File: F140306A_23 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - SMT



Data File: F140306A_23 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - SMT

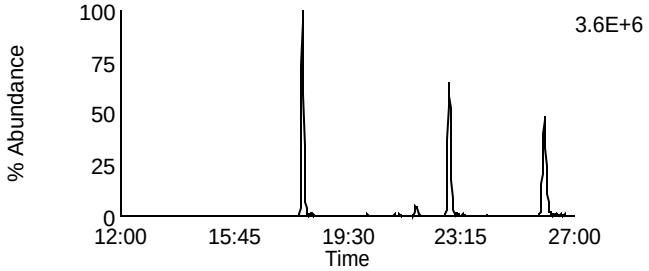


Homologue Group: Tetras

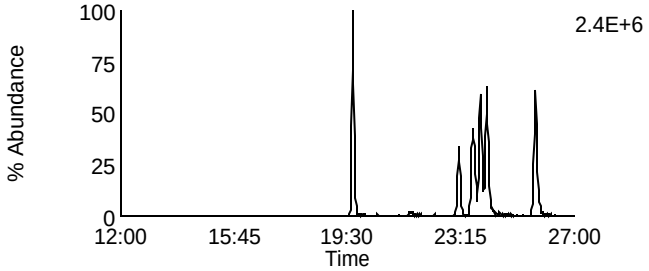
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

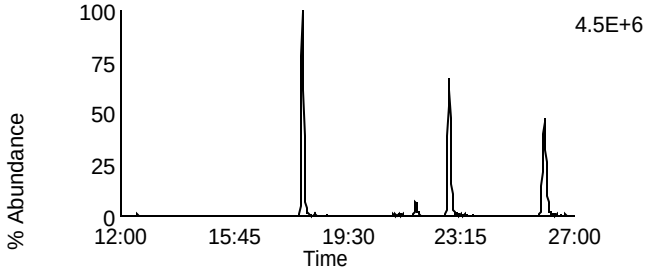
Data File: U140306A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - SMT



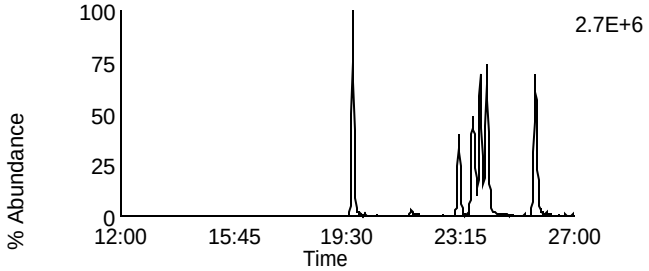
Data File: U140306A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - SMT



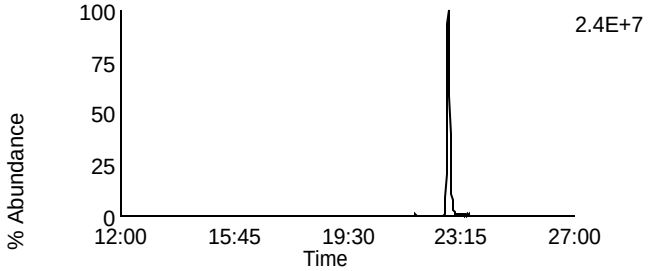
Data File: U140306A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - SMT



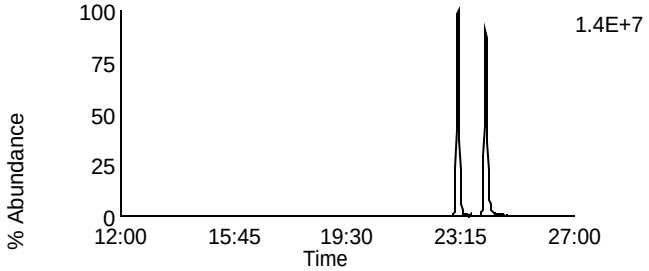
Data File: U140306A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - SMT



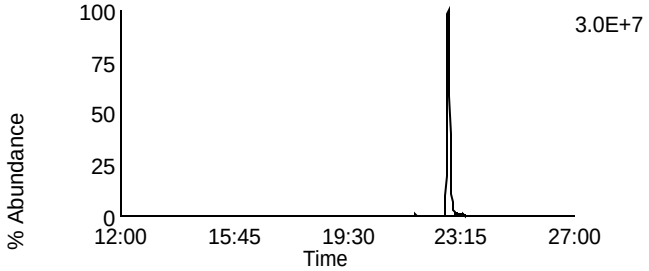
Data File: U140306A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - SMT



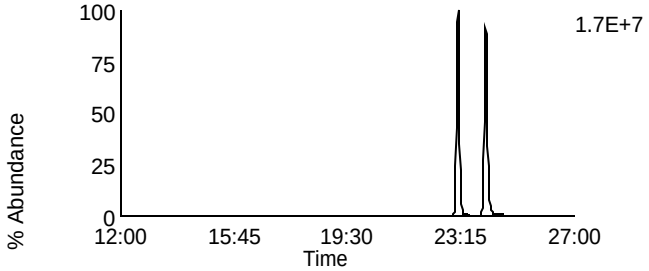
Data File: U140306A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - SMT



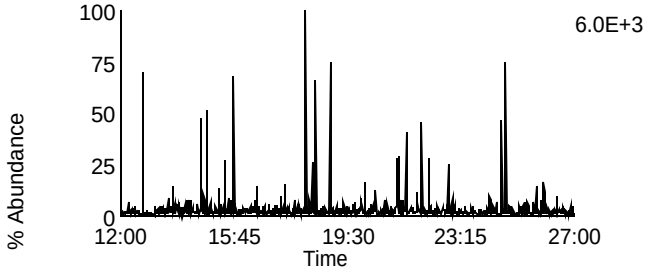
Data File: U140306A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - SMT



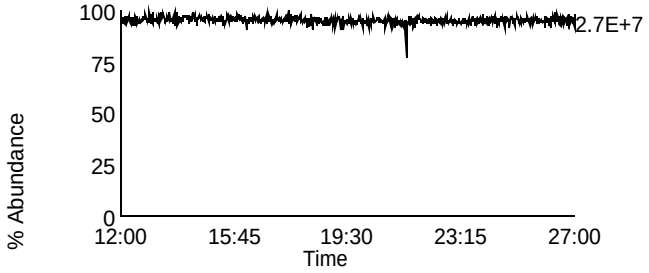
Data File: U140306A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

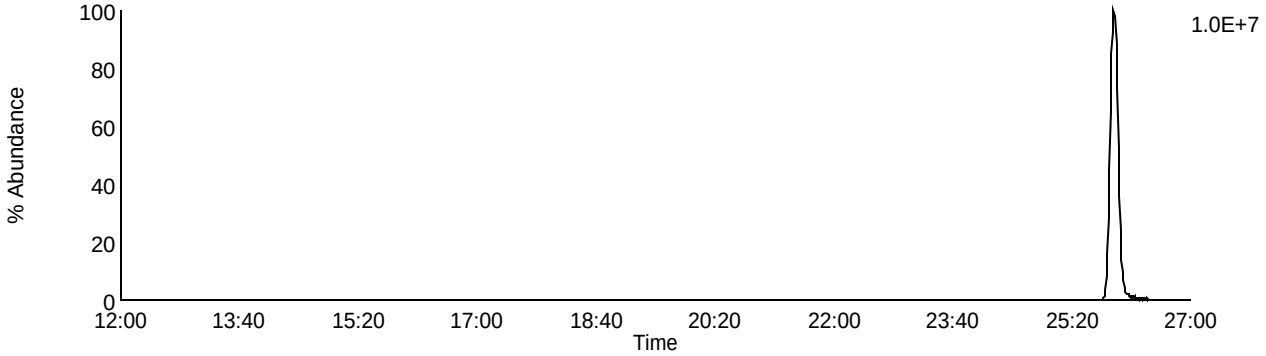


Homologue Group: Penta & Cleanup

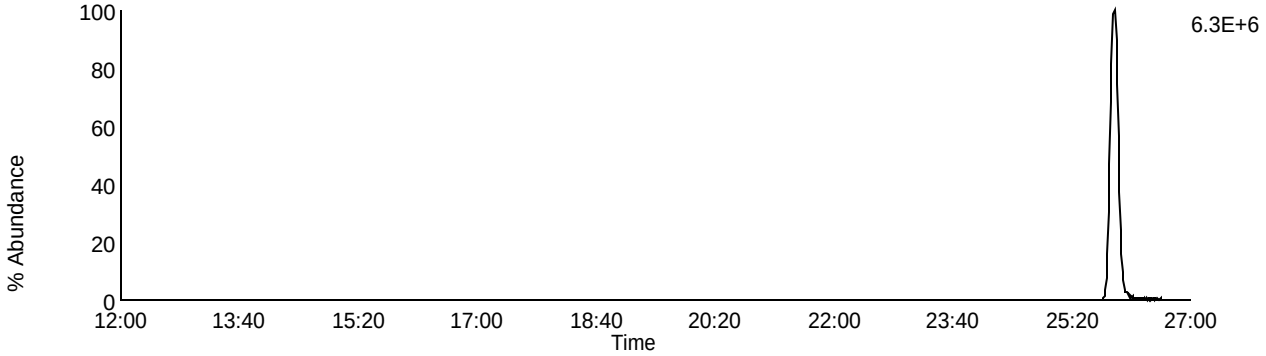
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

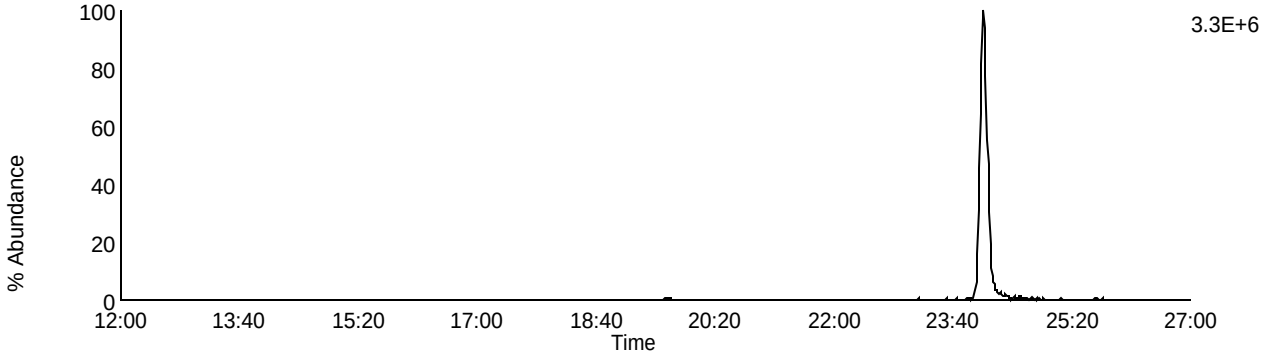
Data File: U140306A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - SMT



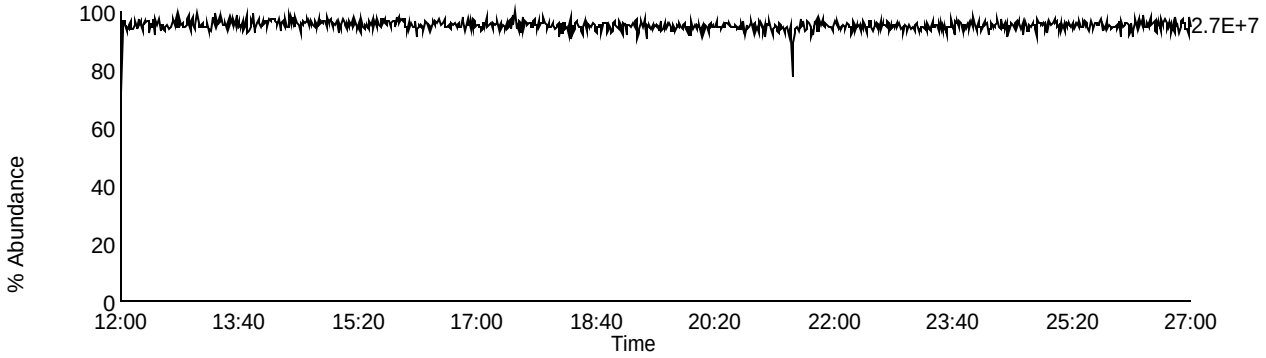
Data File: U140306A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - SMT

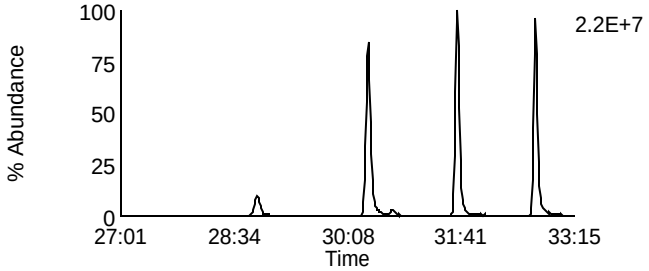


Homologue Group: Pentas

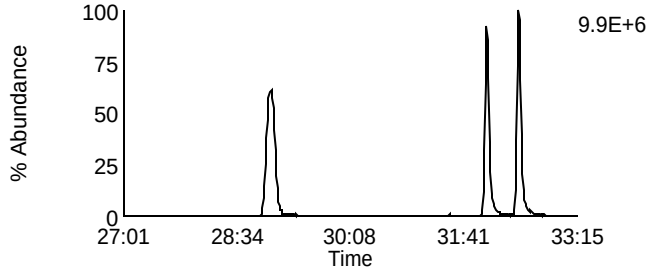
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

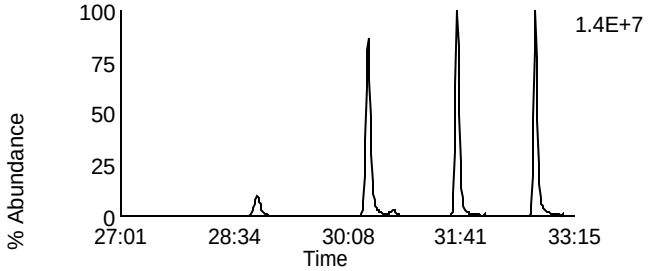
Data File: U140306A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - SMT



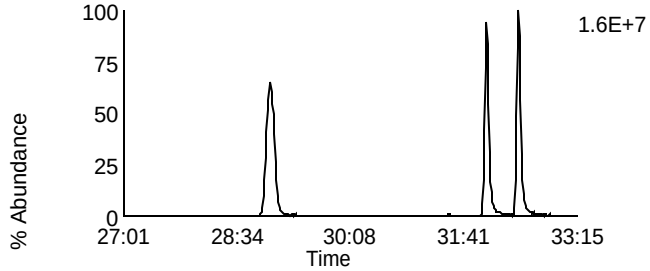
Data File: U140306A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - SMT



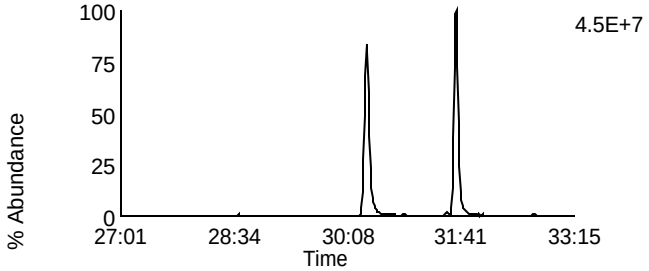
Data File: U140306A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - SMT



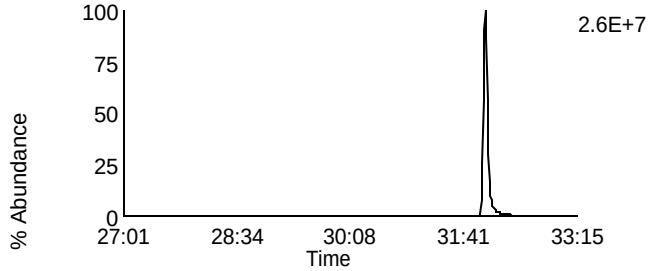
Data File: U140306A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - SMT



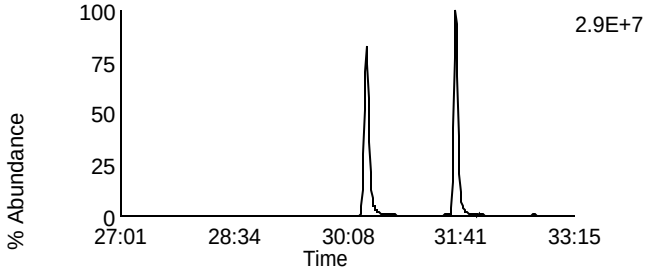
Data File: U140306A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - SMT



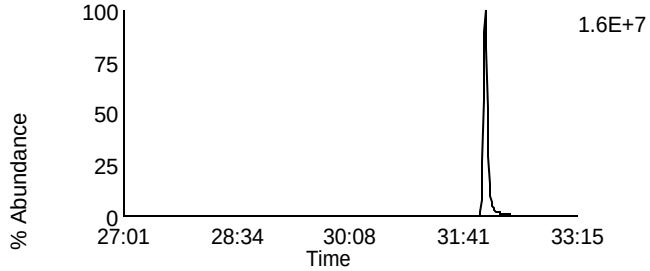
Data File: U140306A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - SMT



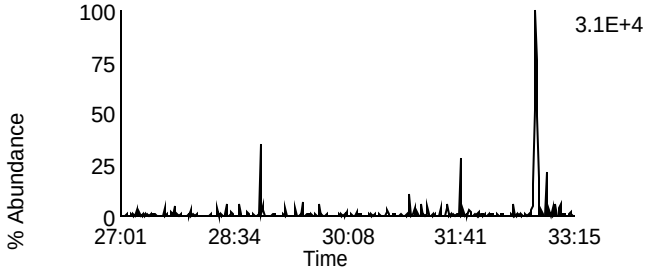
Data File: U140306A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - SMT



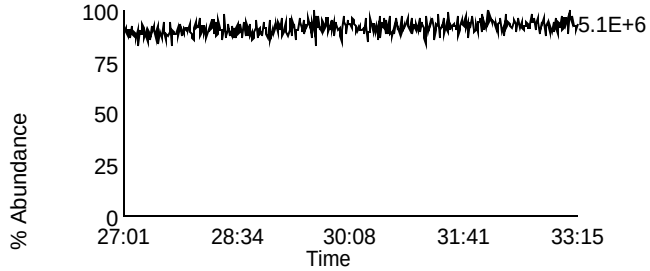
Data File: U140306A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - SMT

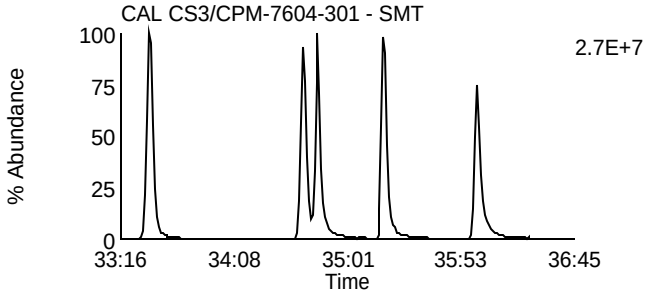


Homologue Group: Hexas

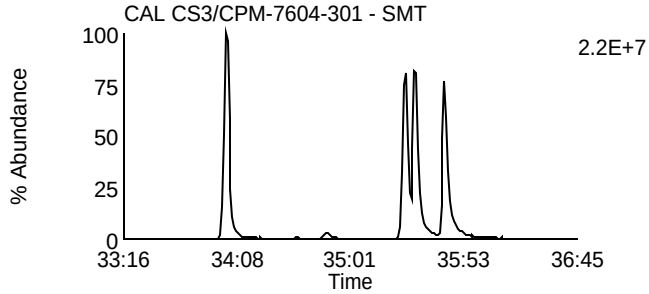
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

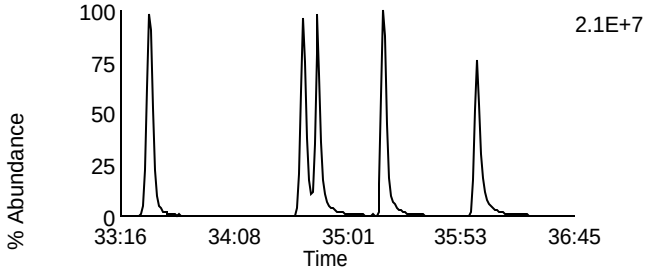
Data File: U140306A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - SMT



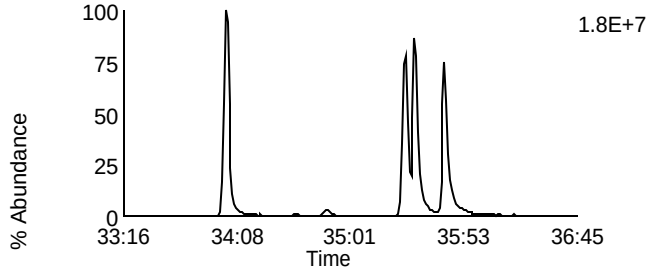
Data File: U140306A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - SMT



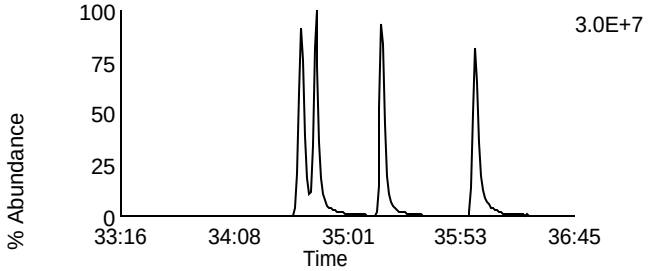
Data File: U140306A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - SMT



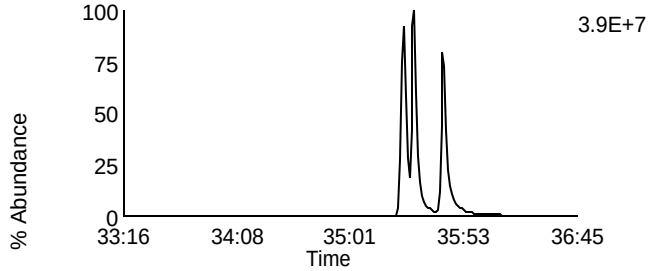
Data File: U140306A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - SMT



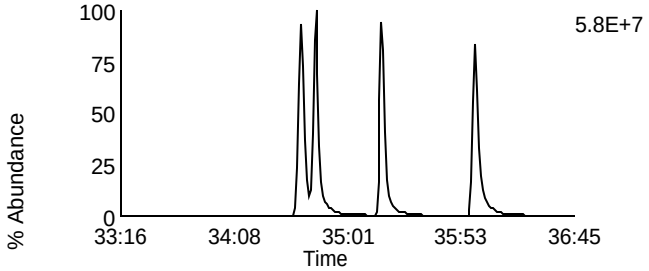
Data File: U140306A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - SMT



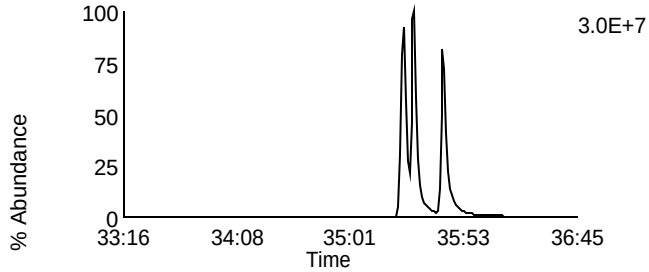
Data File: U140306A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - SMT



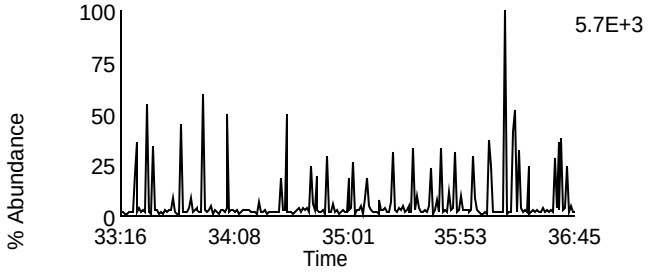
Data File: U140306A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - SMT



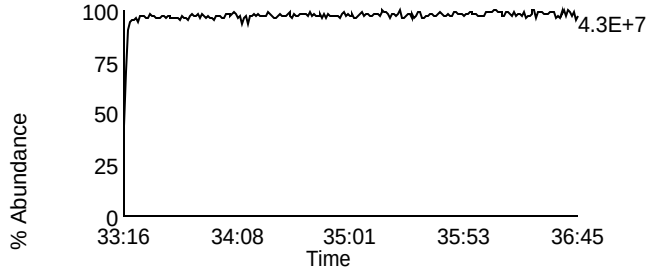
Data File: U140306A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - SMT

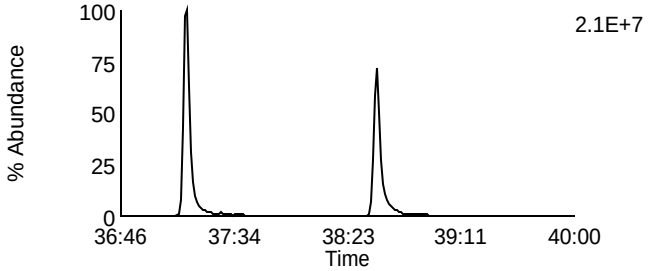


Homologue Group: Heptas

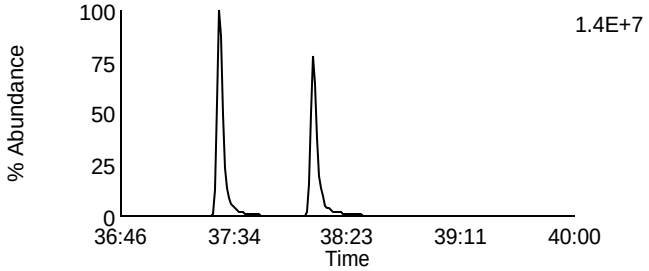
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

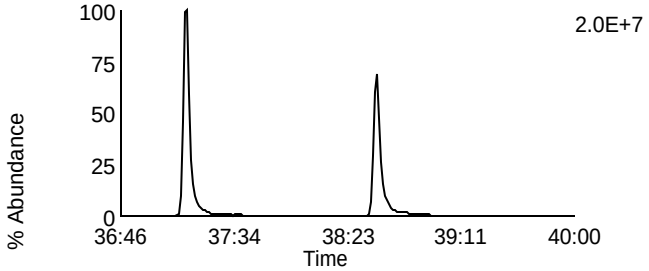
Data File: U140306A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - SMT



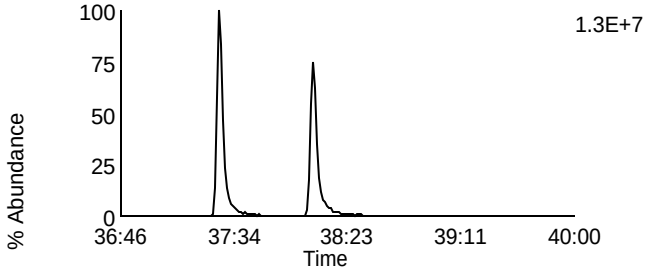
Data File: U140306A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - SMT



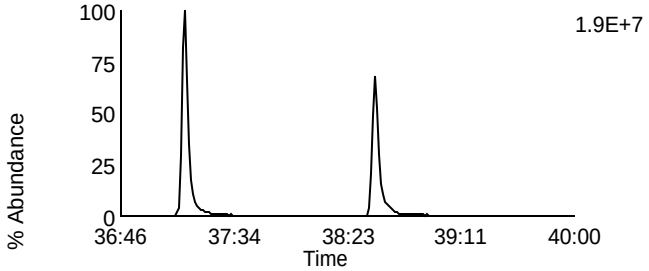
Data File: U140306A_03 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - SMT



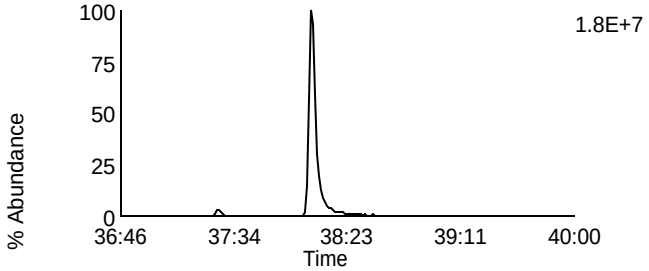
Data File: U140306A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - SMT



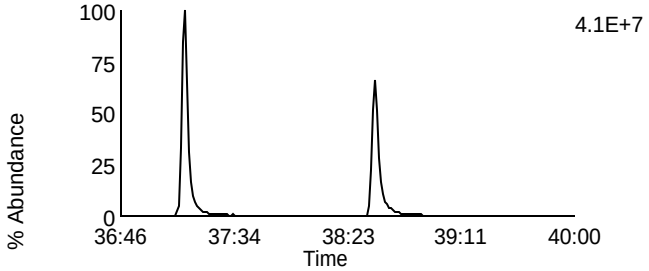
Data File: U140306A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - SMT



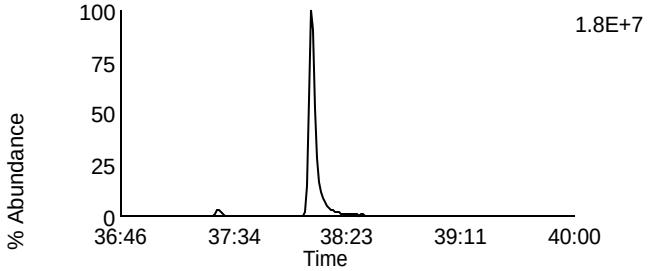
Data File: U140306A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - SMT



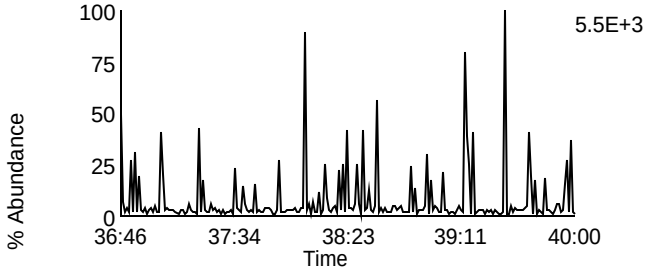
Data File: U140306A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - SMT



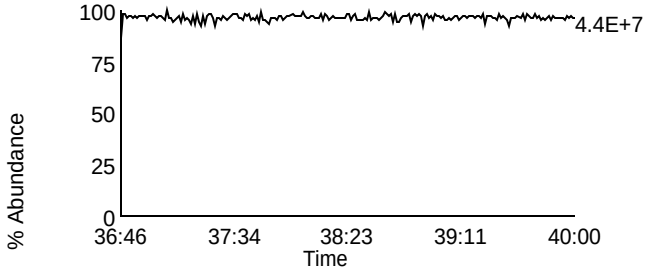
Data File: U140306A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - SMT

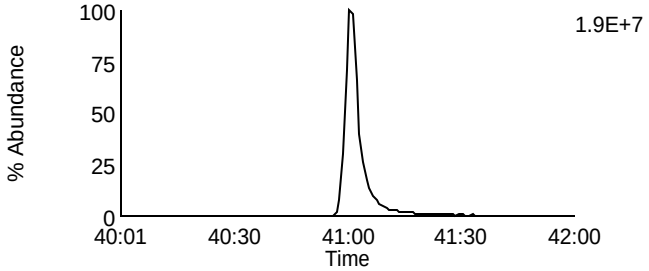


Homologue Group: Octas

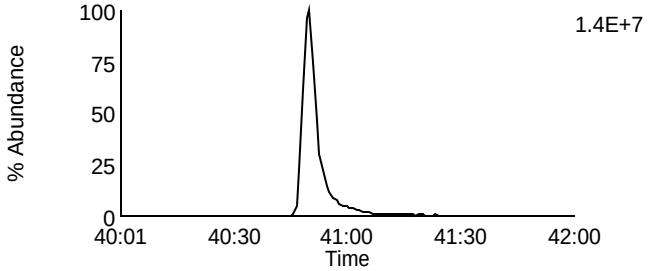
Data File Name: U140306A_03
Date Acquired: 3/6/2014
Sample Description: CAL CS3/CPM-7604-301 - SMT

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

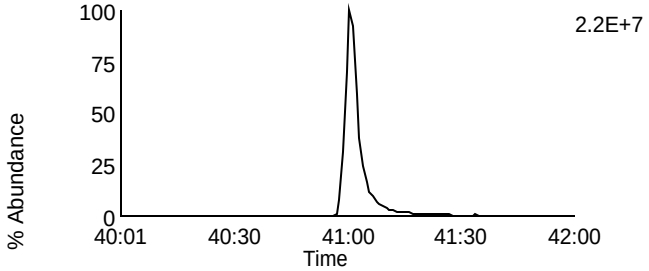
Data File: U140306A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - SMT



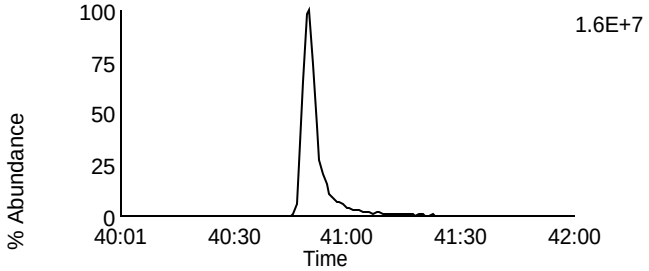
Data File: U140306A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - SMT



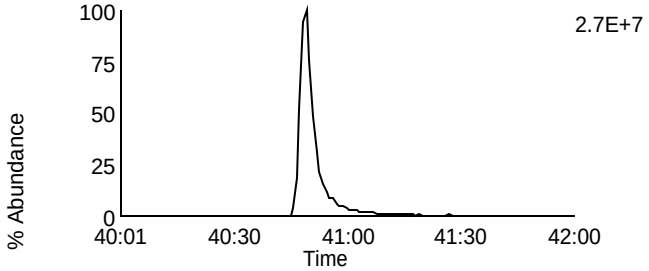
Data File: U140306A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - SMT



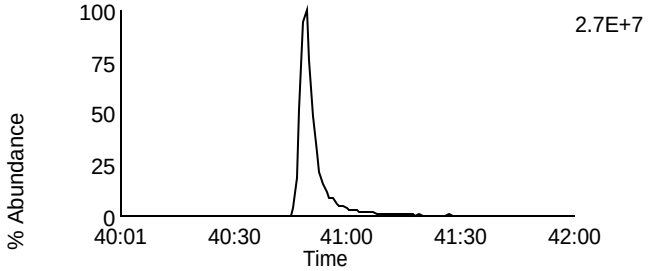
Data File: U140306A_03 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - SMT



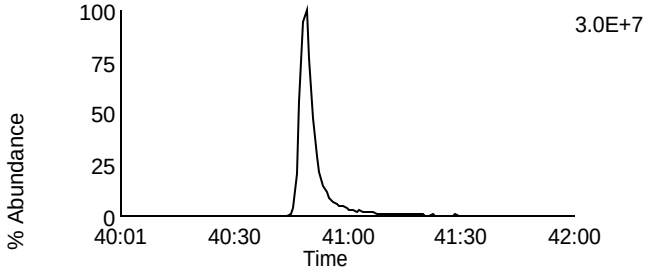
Data File: U140306A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



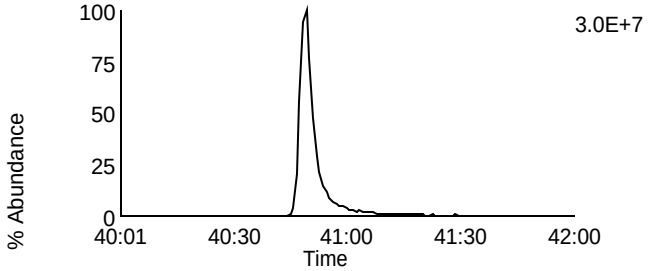
Data File: U140306A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - SMT



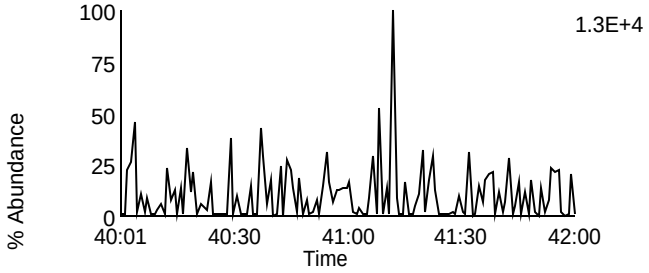
Data File: U140306A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



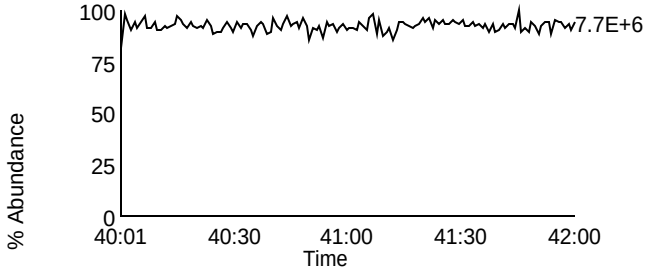
Data File: U140306A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - SMT



Data File: U140306A_03 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - SMT

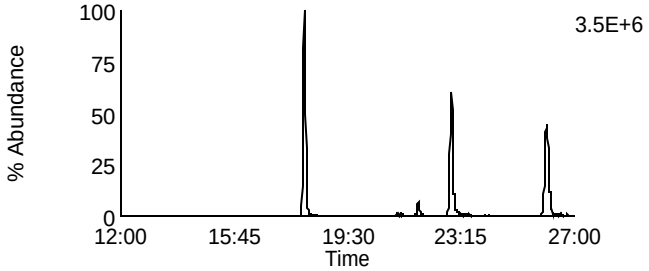


Homologue Group: Tetras

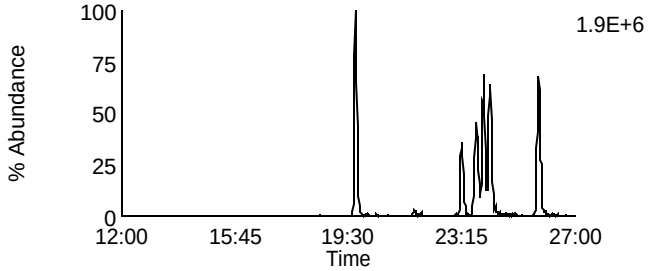
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

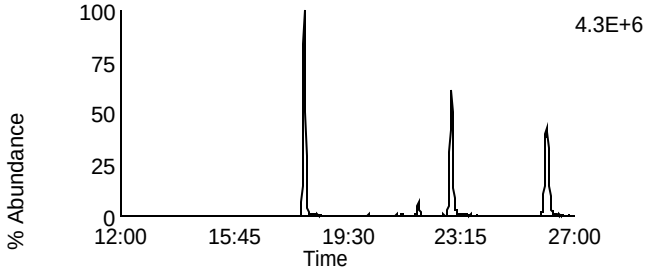
Data File: U140307A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-293 - SMT



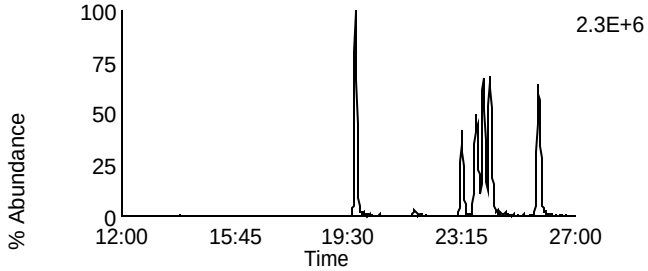
Data File: U140307A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-293 - SMT



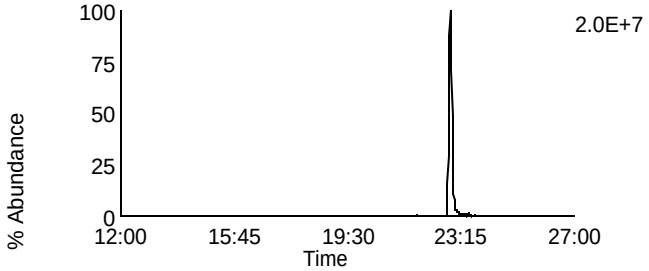
Data File: U140307A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-293 - SMT



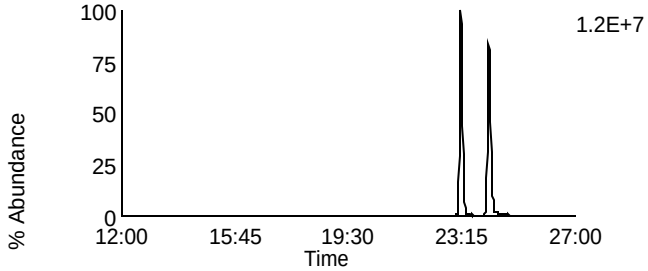
Data File: U140307A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-293 - SMT



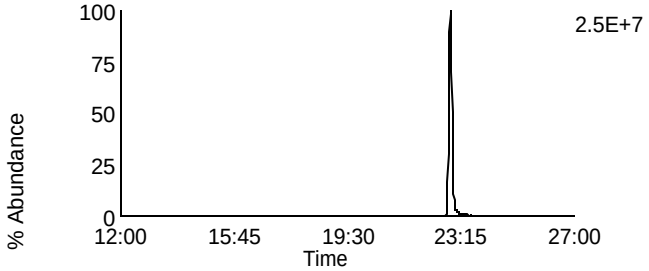
Data File: U140307A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-293 - SMT



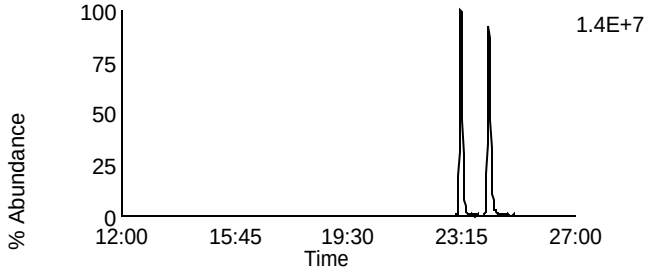
Data File: U140307A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-293 - SMT



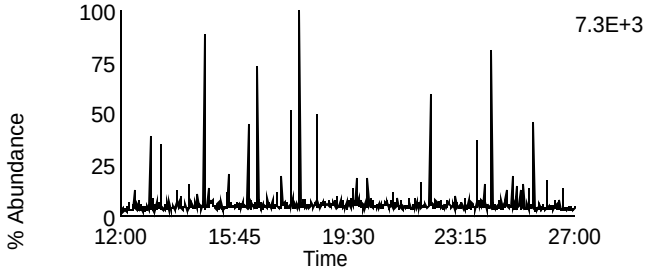
Data File: U140307A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-293 - SMT



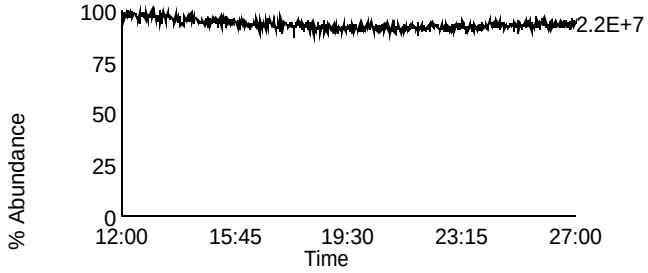
Data File: U140307A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT

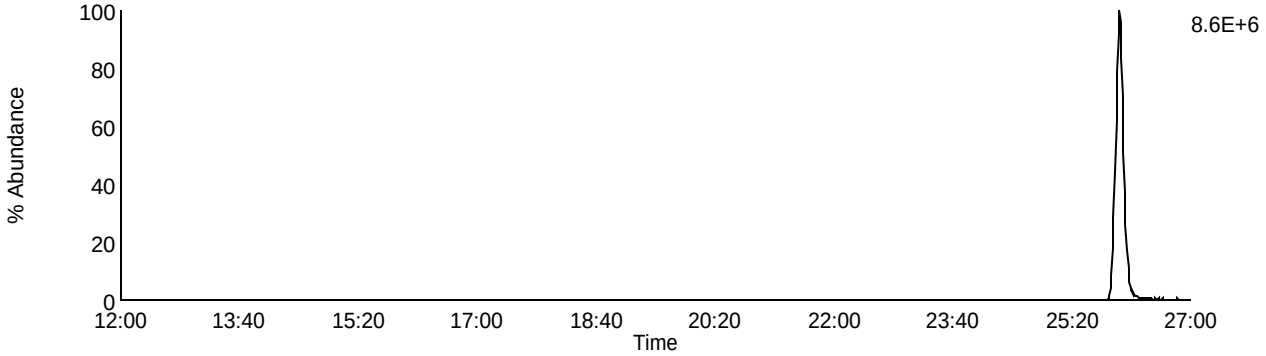


Homologue Group: Penta & Cleanup

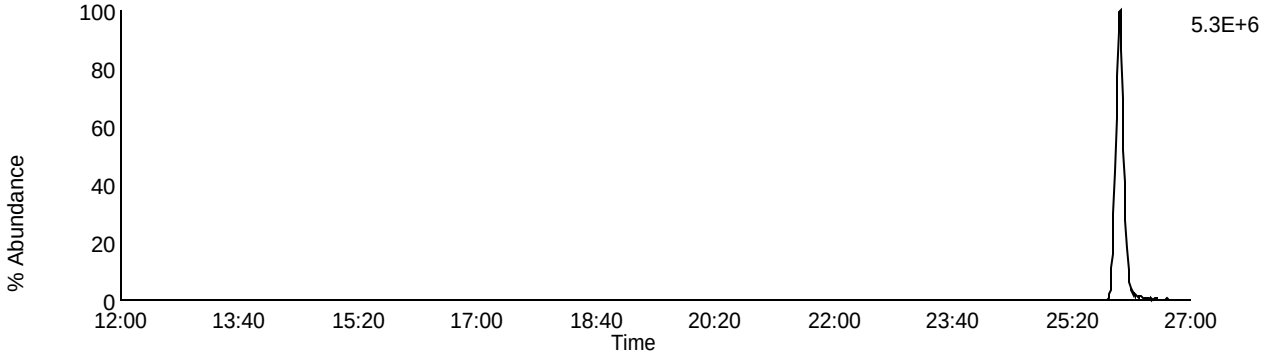
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

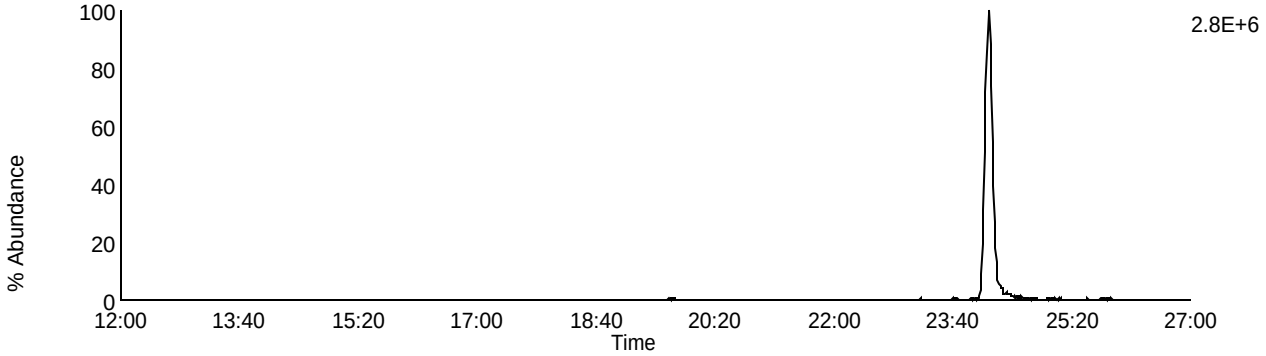
Data File: U140307A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-293 - SMT



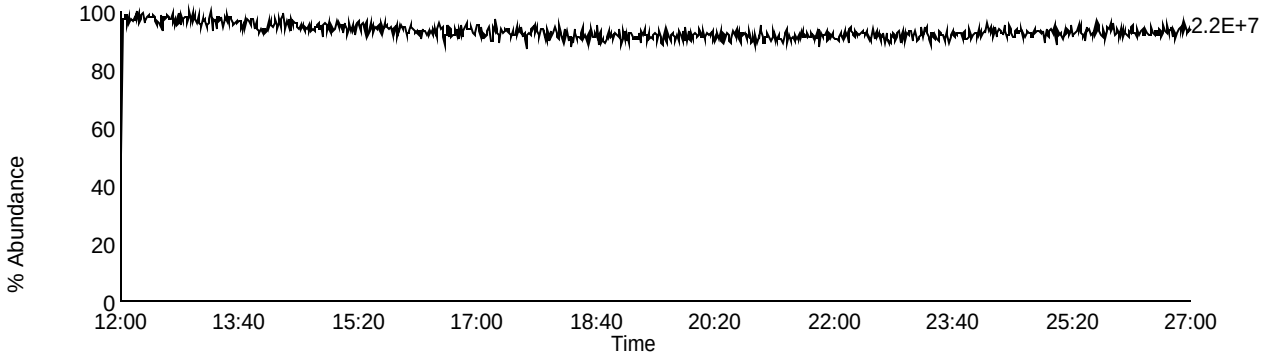
Data File: U140307A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-293 - SMT

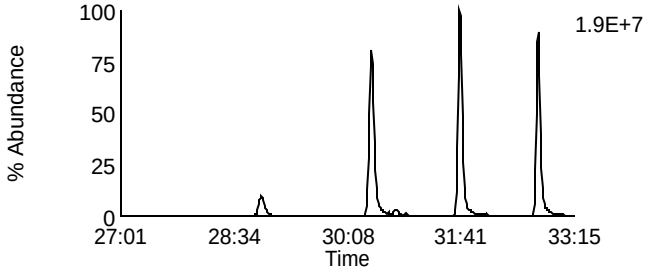


Homologue Group: Pentas

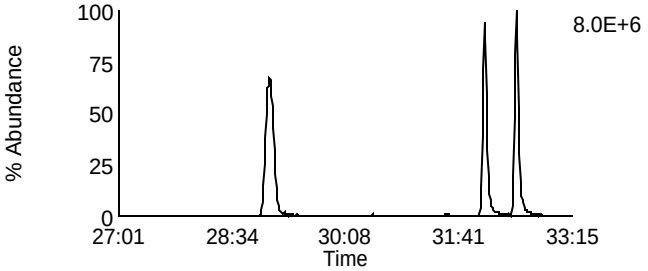
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

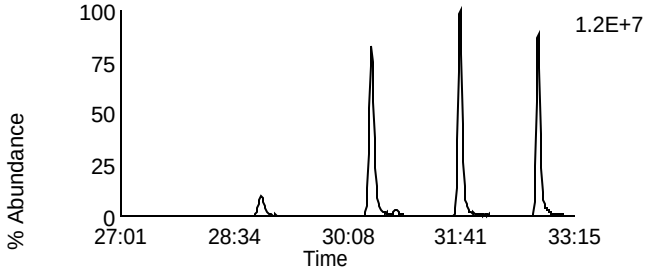
Data File: U140307A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-293 - SMT



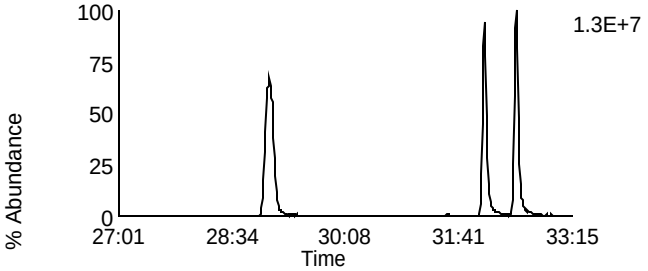
Data File: U140307A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-293 - SMT



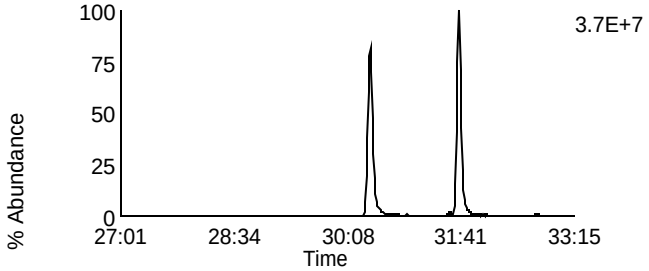
Data File: U140307A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-293 - SMT



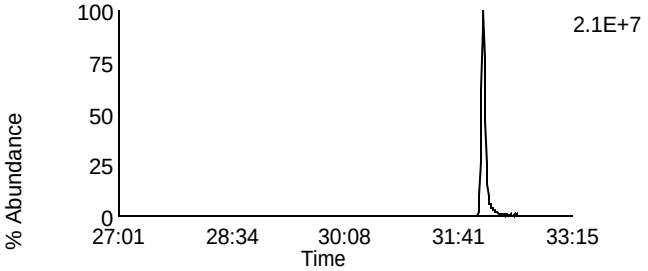
Data File: U140307A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-293 - SMT



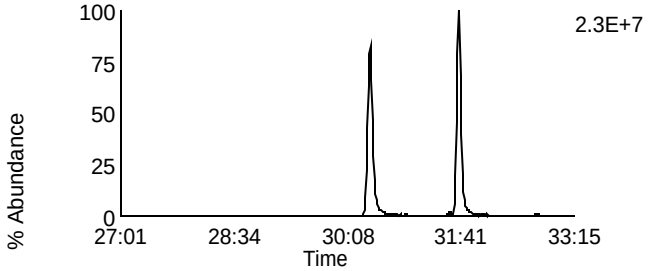
Data File: U140307A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-293 - SMT



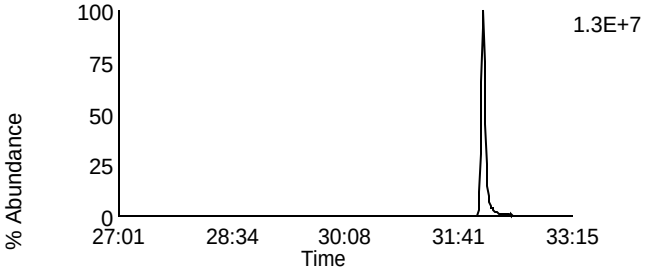
Data File: U140307A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-293 - SMT



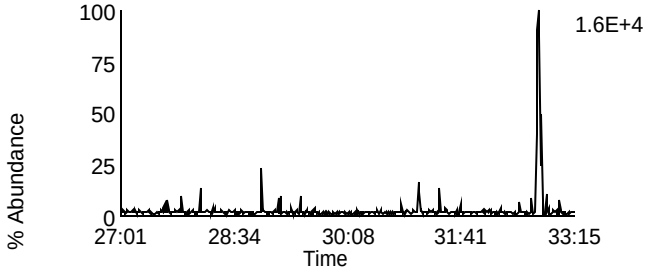
Data File: U140307A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-293 - SMT



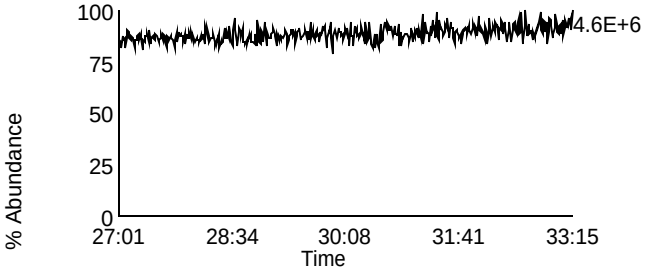
Data File: U140307A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-293 - SMT

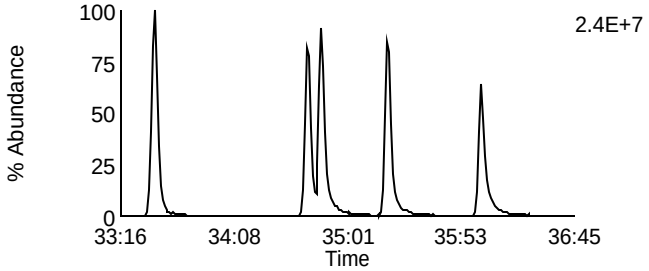


Homologue Group: Hexas

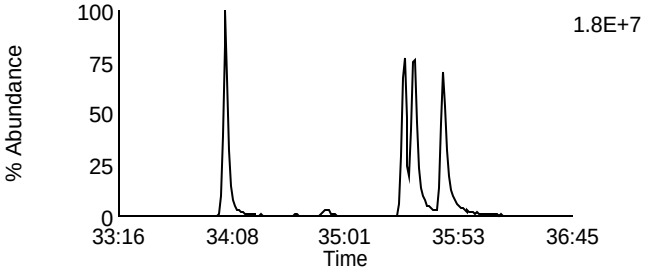
Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

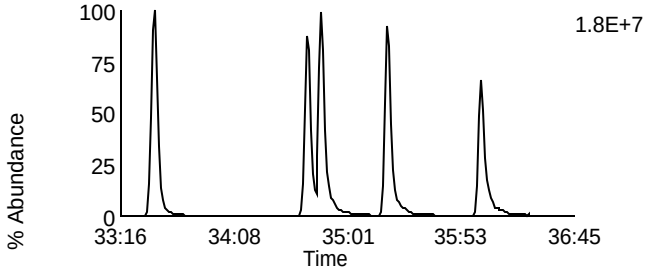
Data File: U140307A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-293 - SMT



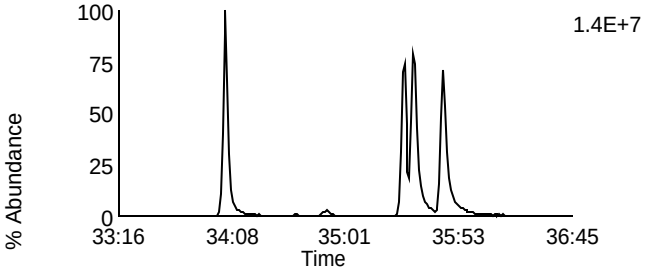
Data File: U140307A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-293 - SMT



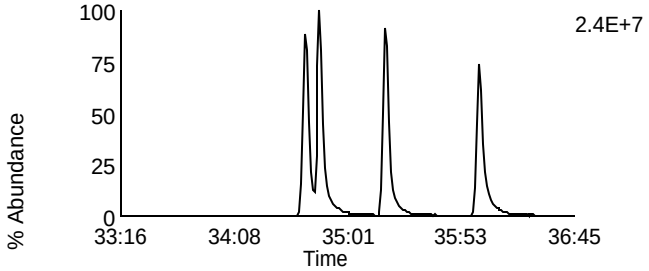
Data File: U140307A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-293 - SMT



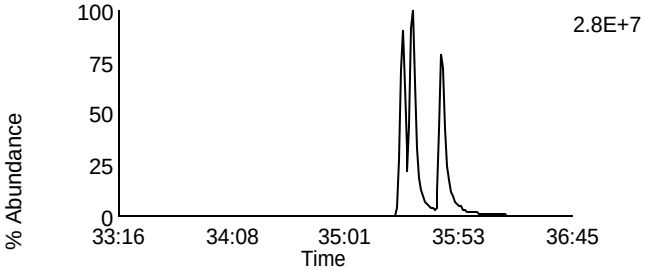
Data File: U140307A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-293 - SMT



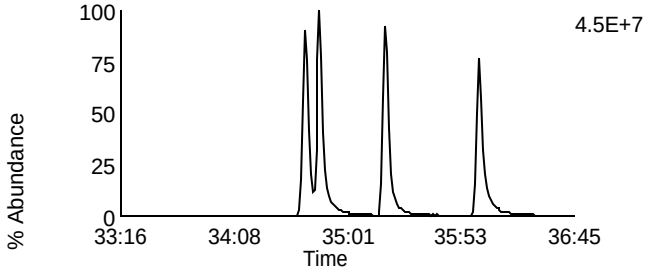
Data File: U140307A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-293 - SMT



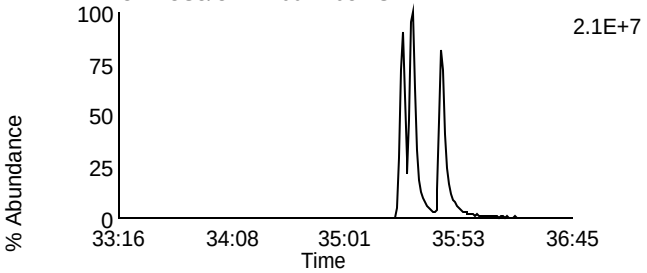
Data File: U140307A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-293 - SMT



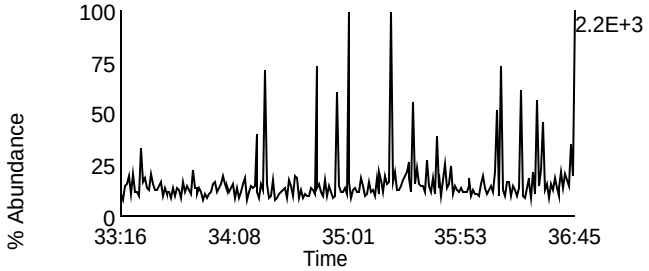
Data File: U140307A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-293 - SMT



Data File: U140307A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-293 - SMT



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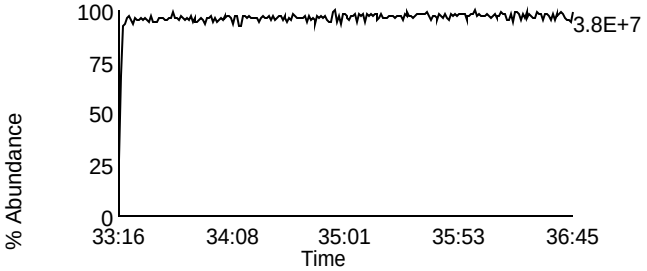
CAL CS3/CPM-7604-293 - SMT

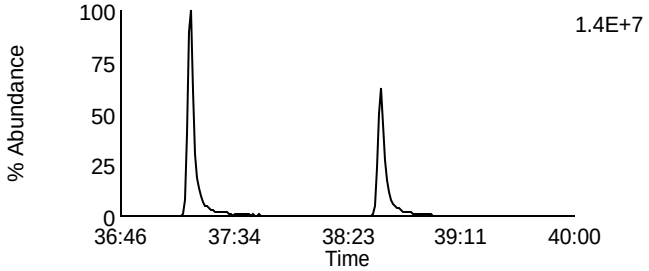


Homologue Group: Heptas

Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140307A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-293 - SMT



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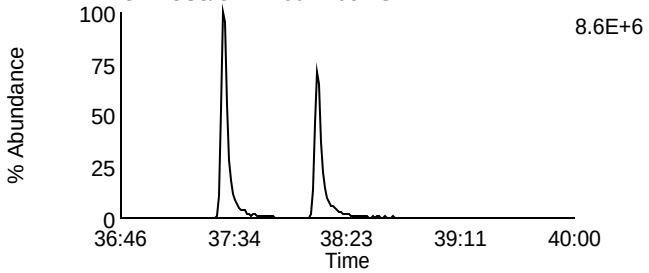
CAL CS3/CPM-7604-293 - SMT



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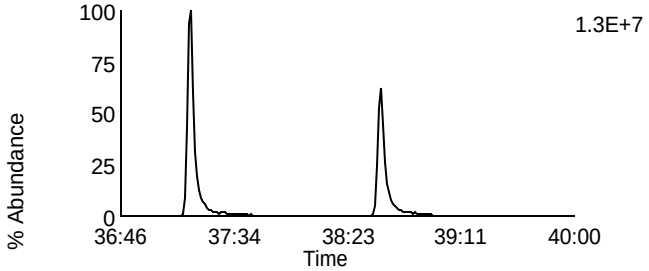

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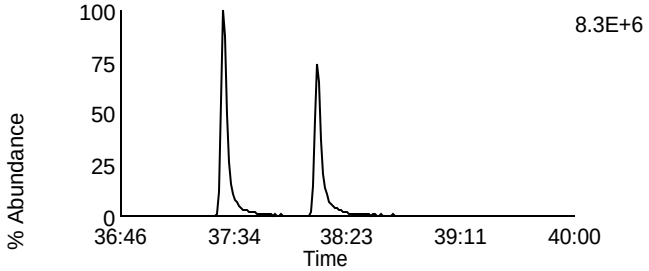

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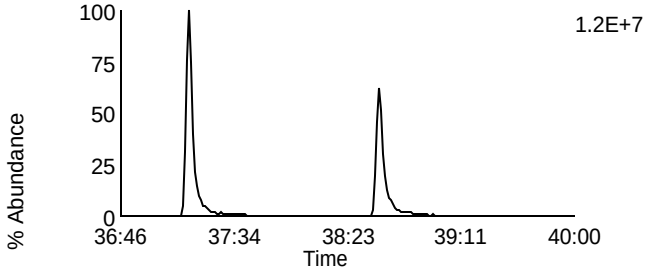

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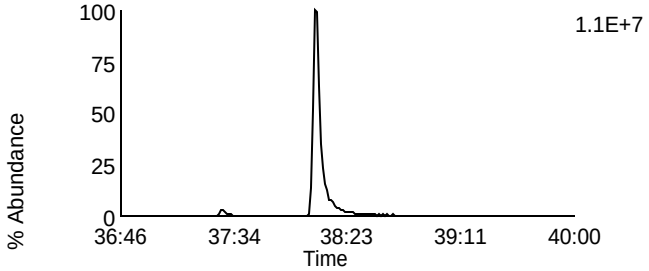

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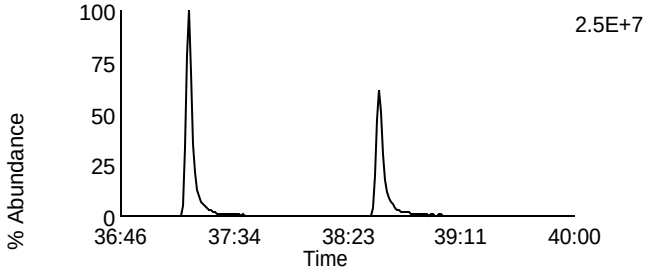
CAL CS3/CPM-7604-293 - SMT



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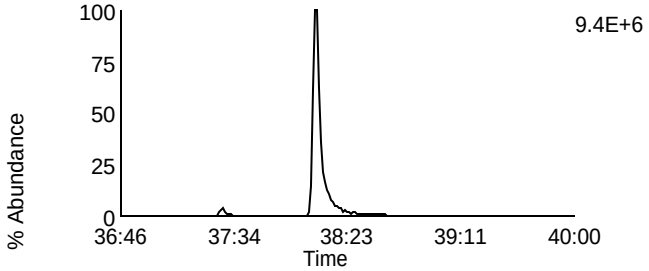

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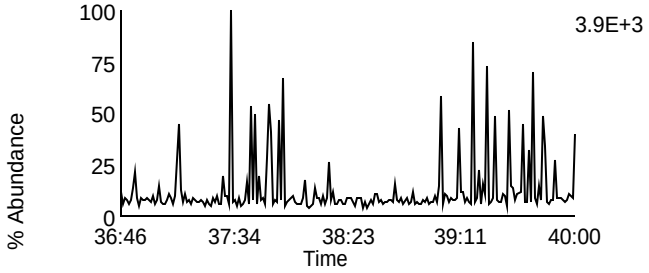

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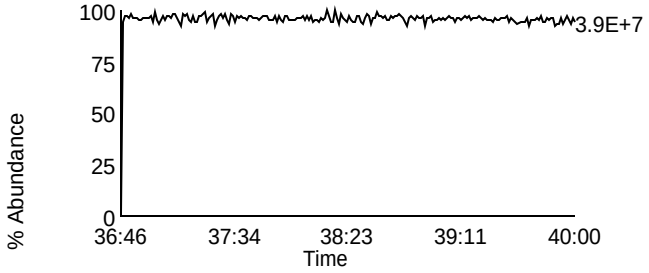
CAL CS3/CPM-7604-293 - SMT

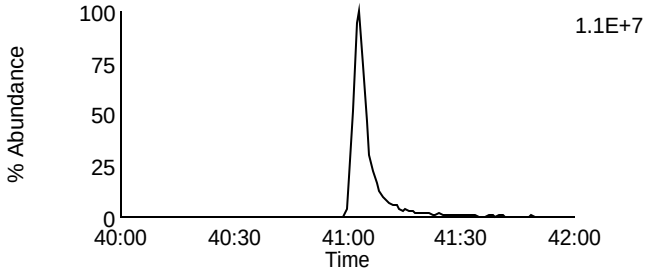


Homologue Group: Octas

Data File Name: U140307A_01
Date Acquired: 3/7/2014
Sample Description: CAL CS3/CPM-7604-293 - SMT

Lab Sample ID: CS3/CPM-7604-293
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140307A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-293 - SMT



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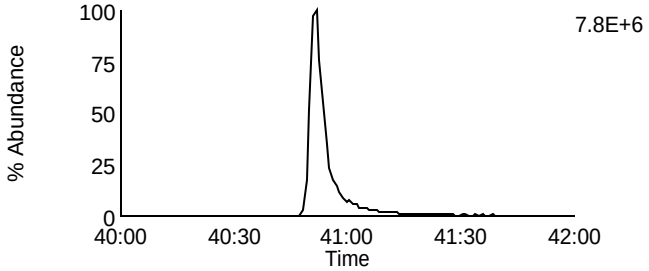

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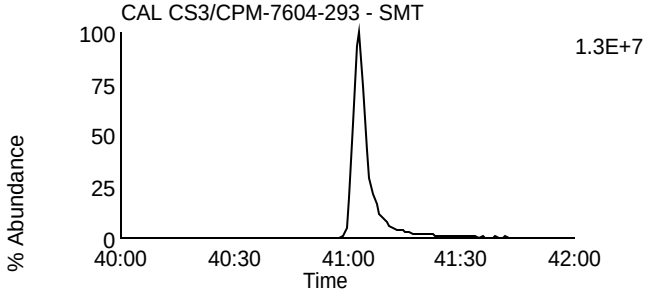

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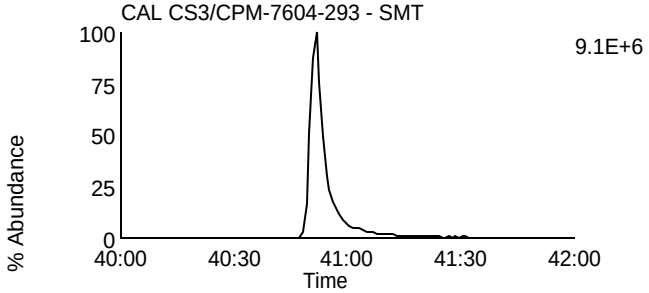

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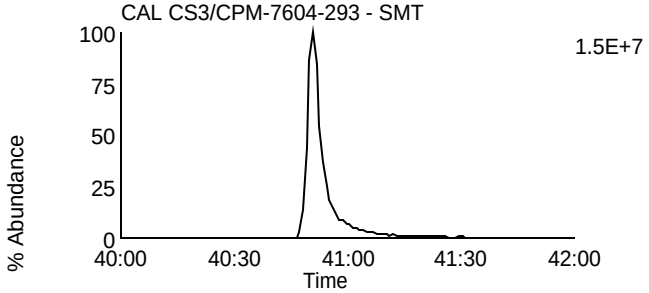

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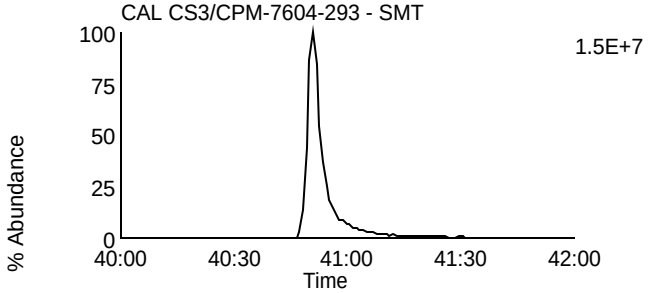
CAL CS3/CPM-7604-293 - SMT



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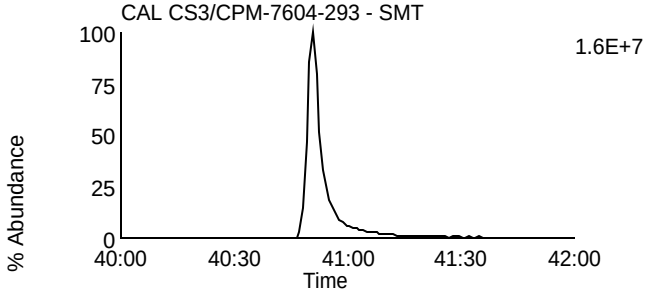

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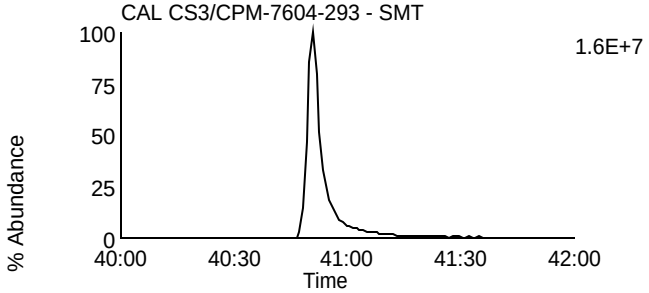

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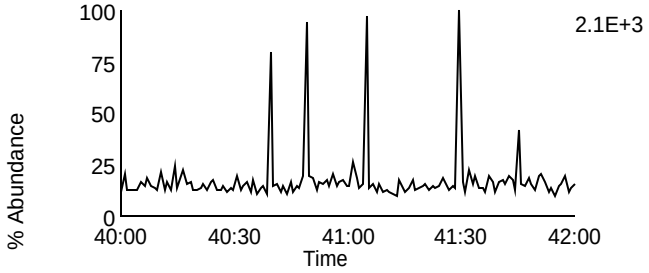
CAL CS3/CPM-7604-293 - SMT



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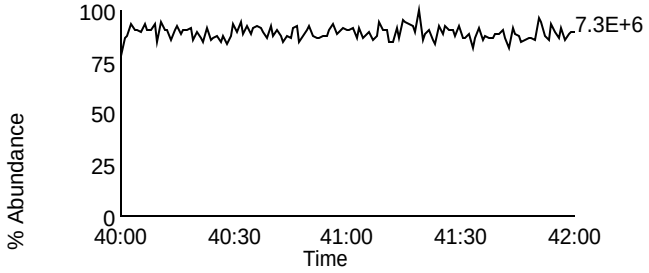
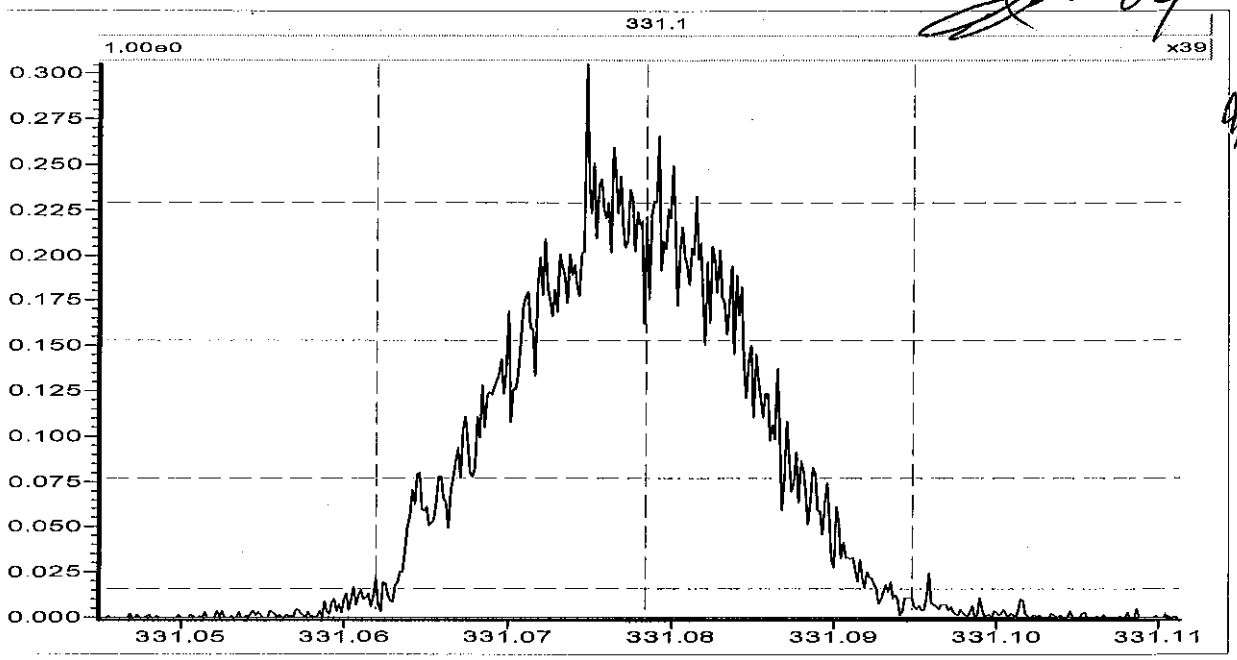


File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Thursday, February 27, 2014 13:35:06 Central Standard Time

02/27/14

2/27/14



Source (EI+)

Ion Repeller (V)	-15.39
Focus 1	1114
Beam Centre	-12.3
Focus 2	4110
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.2
Z Deflect 1	35.5
Z Deflect 2	39.2
Z Focus 2	2222
Z Focus 3	0
Z Deflect 3	42.5
Y Focus	3408
Rotate 2	-4.7
Curve 2	8.2
Curve 3	3.2
Rotate 3	-24.3
Rotate 4	-2.2
V Acc (V)	7991.40
Magnet Mass	331.1
Source Slit	33.00
Collector Slit	14.60
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

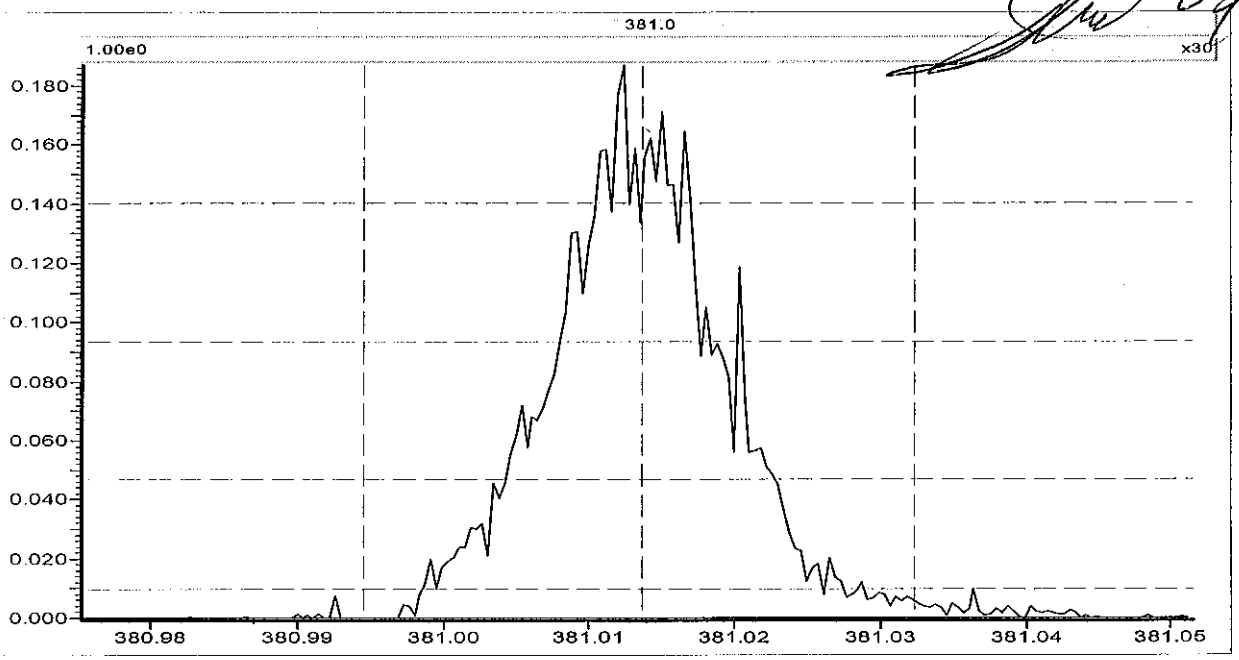
AutoSpec Tune Parameters **MassLynx 4.0 SCN480 SCN533**

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Saturday, March 01, 2014 11:47:35 Central Standard Time

BAL 3/1/14

03/03/14



Source (EI+)

Ion Repeller (V)	-12.86
Focus 1	1290
Beam Centre	-15.2
Focus 2	4065
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-135.0
Z Deflect 1	10.2
Z Deflect 2	35.3
Z Focus 2	2266
Z Focus 3	0
Z Deflect 3	20.8
Y Focus	3348
Rotate 2	-7.9
Curve 2	12.5
Curve 3	3.6
Rotate 3	-21.9
Rotate 4	0.1
V Acc (V)	7982.82
Magnet Mass	331.1
Source Slit	32.76
Collector Slit	13.00
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

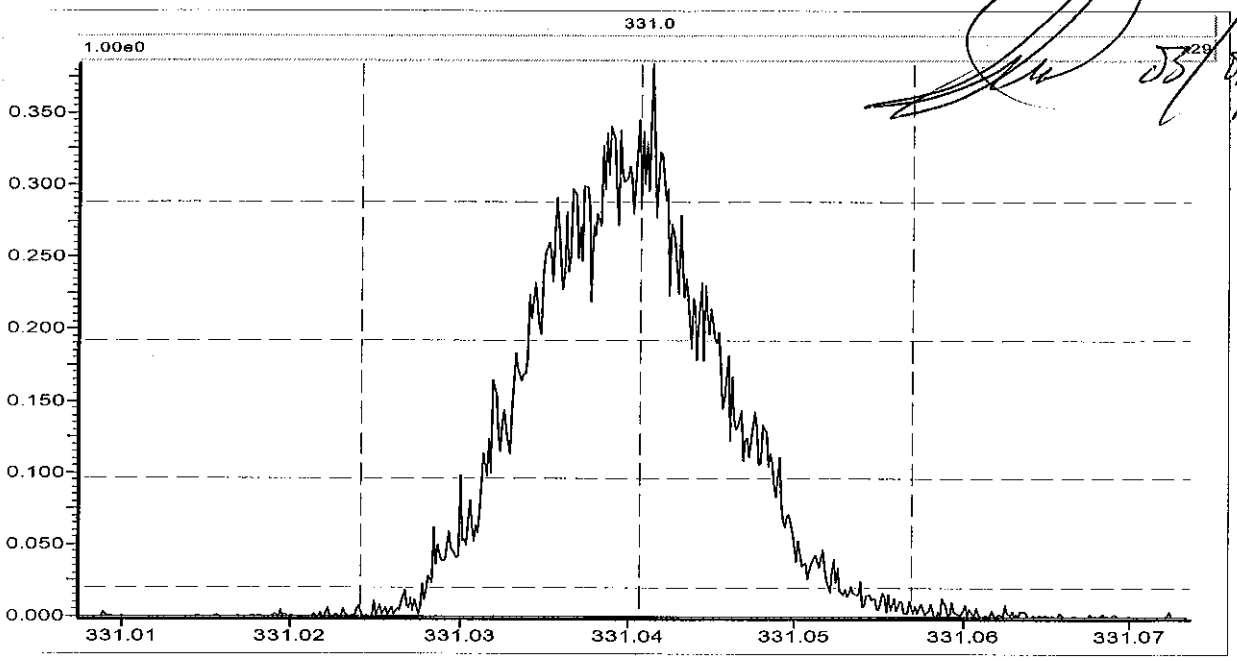
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Saturday, March 01, 2014 12:11:06 Central Standard Time

BAL 3/1/14
Start of 0301B Shift
03/03/14



Source (EI+)

Ion Repeller (V)	-13.46
Focus 1	1138
Beam Centre	-12.8
Focus 2	4071
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-135.0
Z Deflect 1	10.2
Z Deflect 2	35.3
Z Focus 2	2266
Z Focus 3	0
Z Deflect 3	20.8
Y Focus	3358
Rotate 2	-7.9
Curve 2	12.5
Curve 3	3.6
Rotate 3	-24.7
Rotate 4	0.1
V Acc (V)	7992.22
Magnet Mass	331.0
Source Slit	32.76
Collector Slit	13.04
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

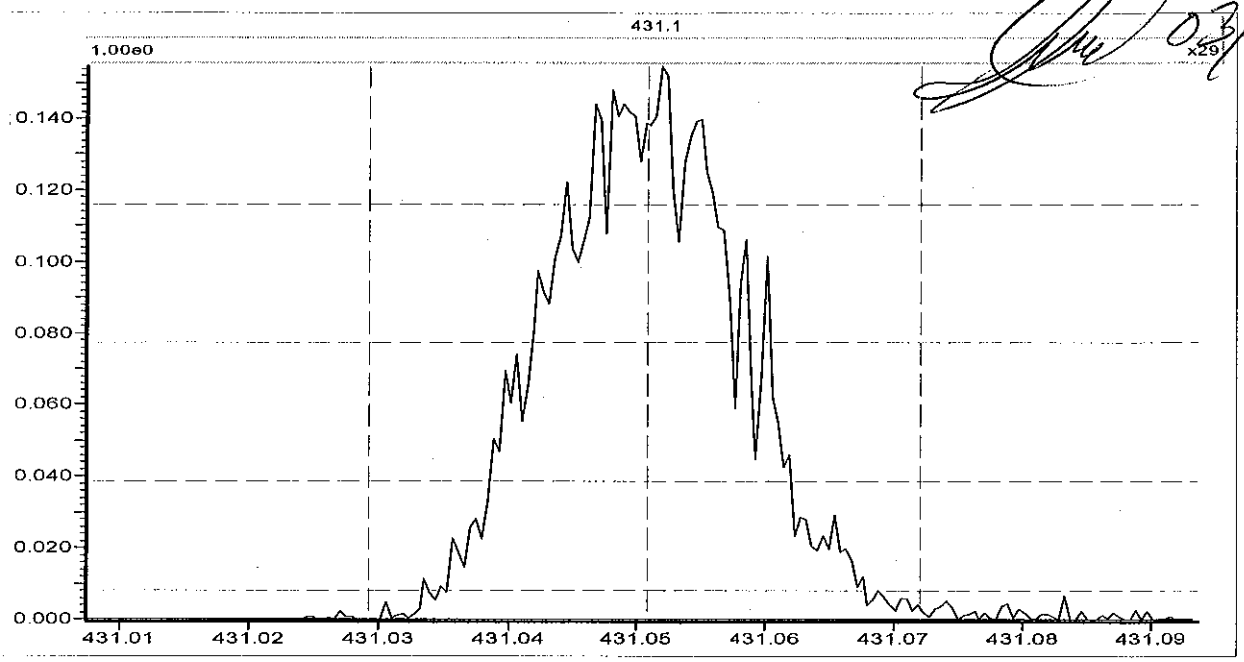
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Sunday, March 02, 2014 11:35:28 Central Standard Time

BAL 3/2/14
end of shift 7
03/03/14



Source (EI+)

Ion Repeller (V)	-13.46
Focus 1	1138
Beam Centre	-12.8
Focus 2	4071
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-135.0
Z Deflect 1	10.2
Z Deflect 2	35.3
Z Focus 2	2266
Z Focus 3	0
Z Deflect 3	20.8
Y Focus	3358
Rotate 2	-7.9
Curve 2	12.5
Curve 3	3.6
Rotate 3	-24.7
Rotate 4	0.1
V Acc (V)	7992.22
Magnet Mass	331.0
Source Slit	32.76
Collector Slit	13.04
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

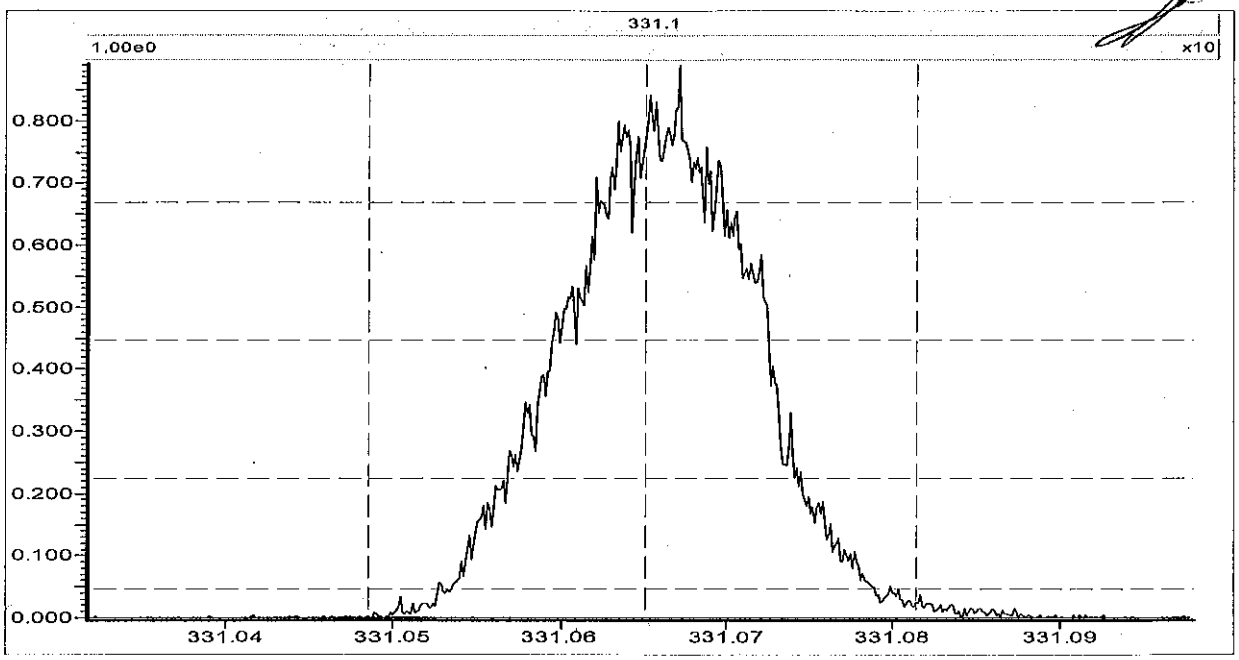
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Thursday, March 06, 2014 14:22:36 Central Standard Time

03/06/14
3/6/14



Source (EI+)

Ion Repeller (V)	-11.29
Focus 1	932
Beam Centre	-2.0
Focus 2	4107
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-124.2
Z Deflect 1	28.7
Z Deflect 2	22.7
Z Focus 2	2421
Z Focus 3	0
Z Deflect 3	28.5
Y Focus	3393
Rotate 2	-9.1
Curve 2	6.8
Curve 3	0.6
Rotate 3	-23.3
Rotate 4	0.1
V Acc (V)	7990.17
Magnet Mass	331.1
Source Slit	32.18
Collector Slit	13.37
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

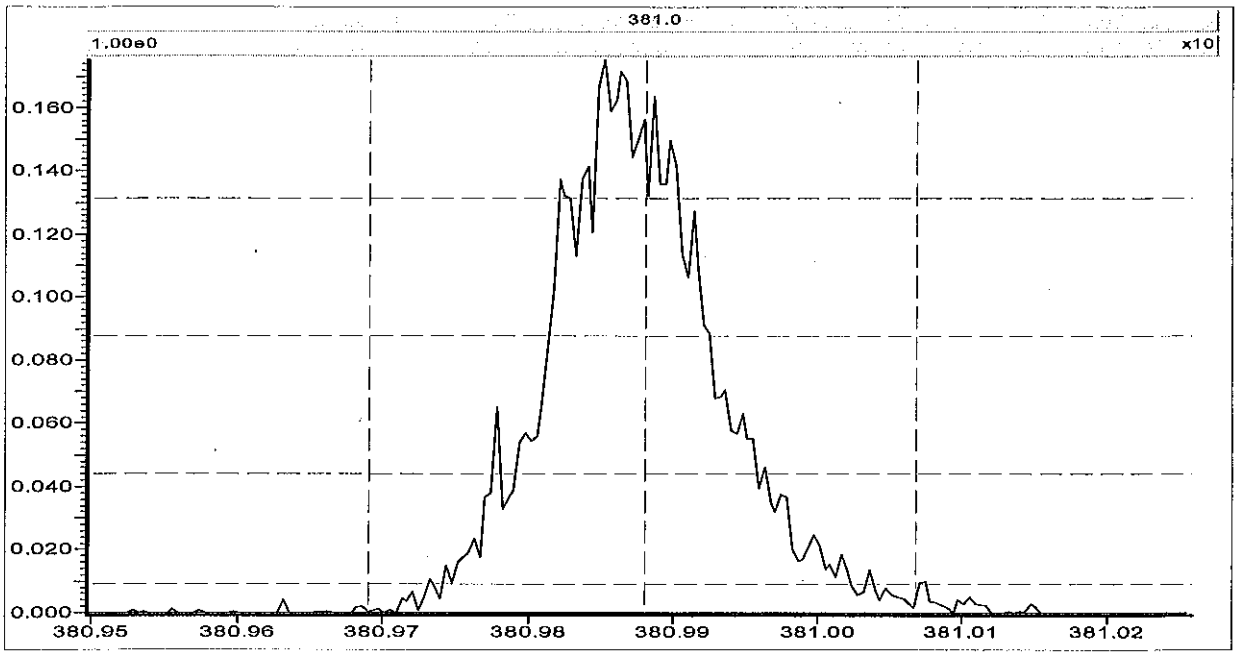
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Friday, March 07, 2014 14:29:56 Central Standard Time

CB 3/7/14 3/7/14



Source (EI+)

Ion Repeller (V)	-11.29
Focus 1	932
Beam Centre	-2.0
Focus 2	4107
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-124.2
Z Deflect 1	28.7
Z Deflect 2	22.7
Z Focus 2	2421
Z Focus 3	0
Z Deflect 3	28.5
Y Focus	3393
Rotate 2	-9.1
Curve 2	6.8
Curve 3	0.6
Rotate 3	-23.3
Rotate 4	0.1
V Acc (V)	7990.00
Magnet Mass	331.1
Source Slit	32.18
Collector Slit	13.37
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

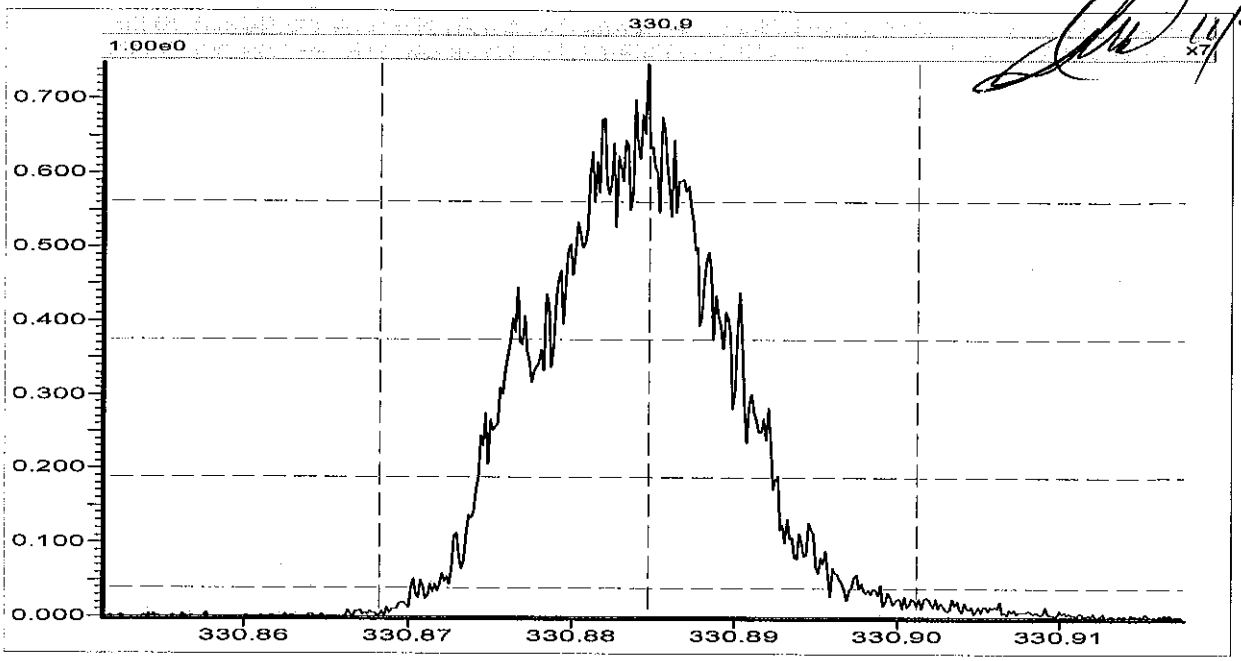
Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: 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

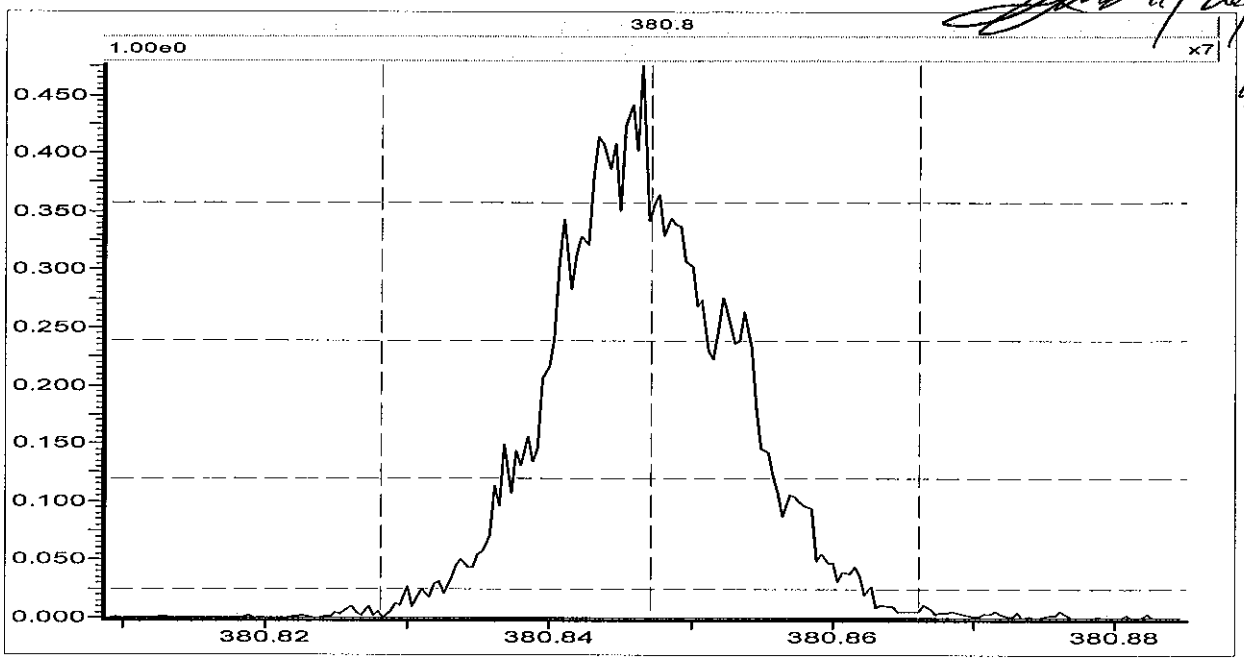
Engineer
No information

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+)

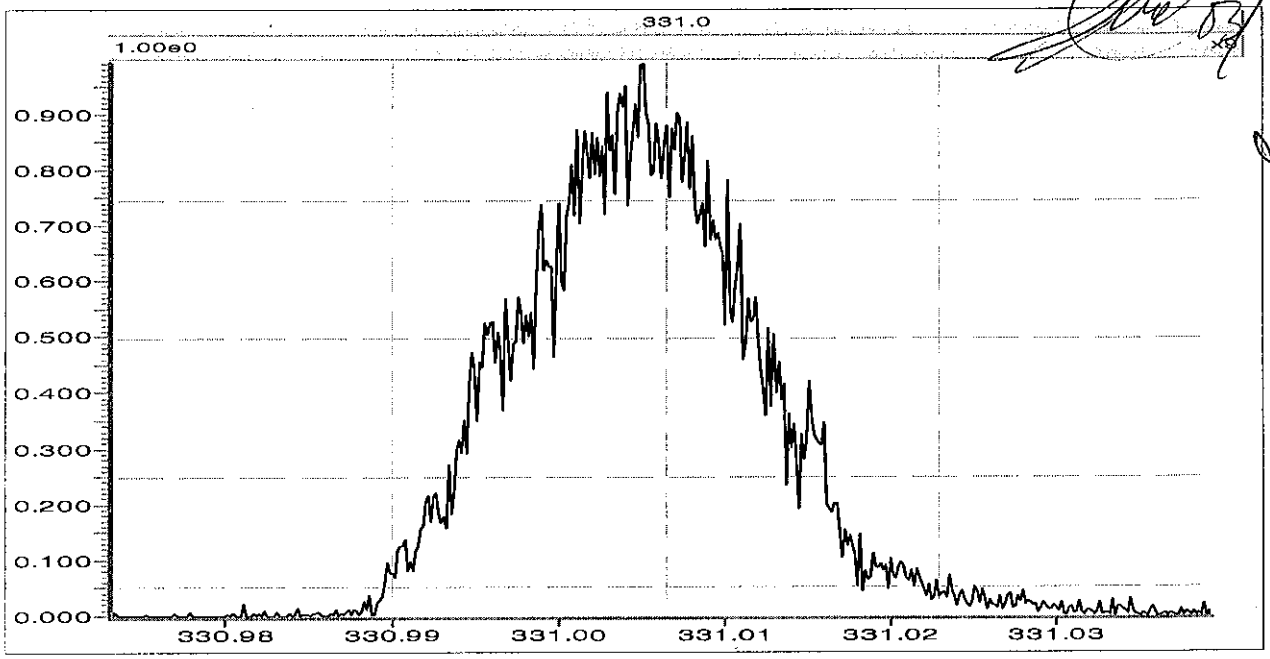
Ion Repeller (V)	-11.49
Focus 1	1074
Beam Centre	-14.1
Focus 2	3931
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-107.6
Z Deflect 1	69.1
Z Deflect 2	26.7
Z Focus 2	2253
Z Focus 3	0
Z Deflect 3	23.4
Y Focus	3791
Rotate 2	-8.2
Curve 2	16.4
Curve 3	-1.9
Rotate 3	-23.7
Rotate 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: Thursday, March 06, 2014 07:10:14 Central Standard Time



Source (EI+)

Ion Repeller (V)	-8.13
Focus 1	927
Beam Centre	88.2
Focus 2	3818
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-146.2
Z Deflect 1	59.4
Z Deflect 2	-22.7
Z Focus 2	2159
Z Focus 3	0
Z Deflect 3	-42.5
Y Focus	3475
Rotate 2	-13.4
Curve 2	1.7
Curve 3	9.0
Rotate 3	-6.8
Rotate 4	-8.9
V Acc (V)	7993.94
Magnet Mass	331.0
Source Slit	18.96
Collector Slit	34.04
MIKES Slit	100.00
Alpha	70.30
Detector Voltage	400
Ion Energy	-2.60
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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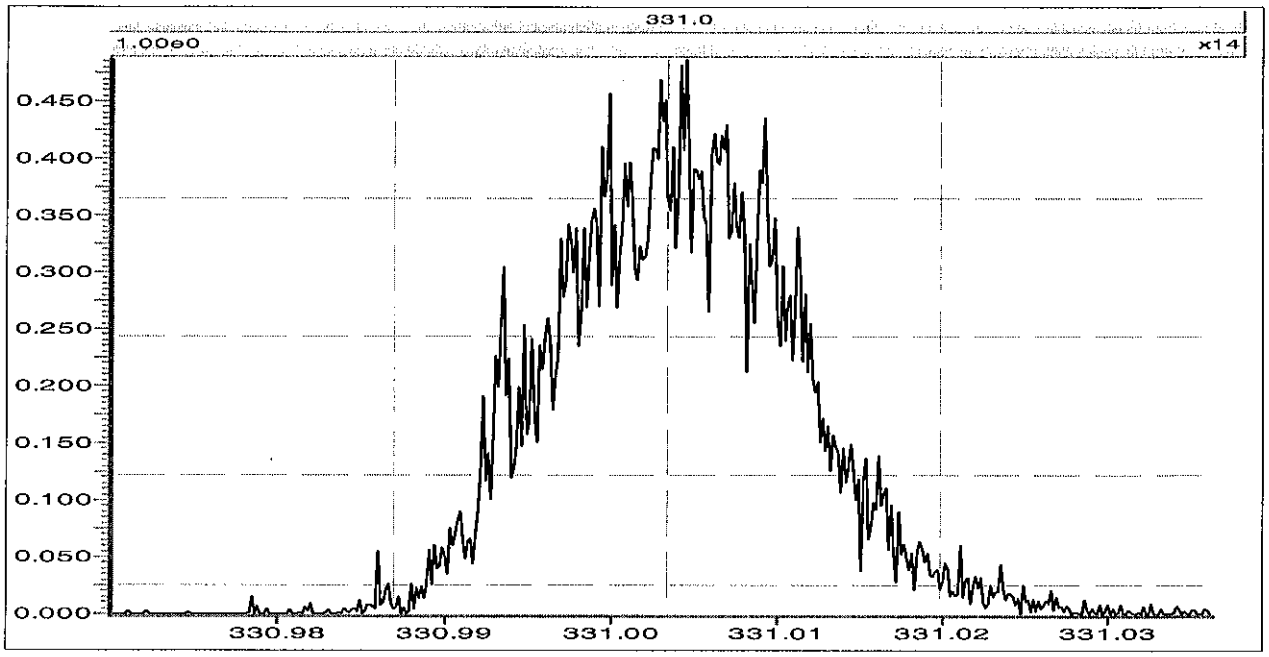
03/06/14

3/7/14



Source (EI+)

Ion Repeller (V)	-8.13
Focus 1	927
Beam Centre	88.2
Focus 2	3818
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-146.2
Z Deflect 1	59.4
Z Deflect 2	-22.7
Z Focus 2	2159
Z Focus 3	0
Z Deflect 3	-42.5
Y Focus	3475
Rotate 2	-13.4
Curve 2	1.7
Curve 3	9.0
Rotate 3	-6.8
Rotate 4	-8.9
V Acc (V)	7993.94
Magnet Mass	331.0
Source Slit	18.96
Collector Slit	34.04
MIKES Slit	100.00
Alpha	70.30
Detector Voltage	400
Ion Energy	-2.60
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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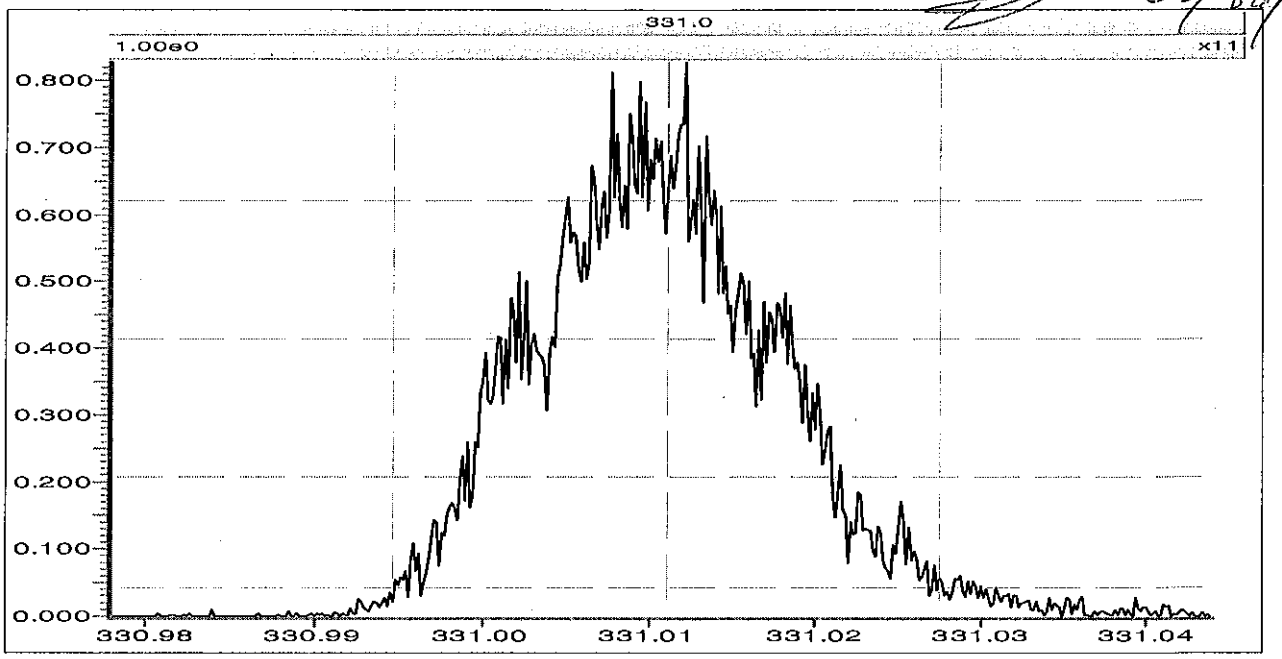
03/06/14

Sw 3/7/14



Source (EI+)

Ion Repeller (V)	-8.13
Focus 1	927
Beam Centre	88.2
Focus 2	3818
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-146.2
Z Deflect 1	59.4
Z Deflect 2	-22.7
Z Focus 2	2159
Z Focus 3	0
Z Deflect 3	-42.5
Y Focus	3500
Rotate 2	-13.4
Curve 2	1.7
Curve 3	9.0
Rotate 3	-6.8
Rotate 4	-8.9
V Acc (V)	7993.83
Magnet Mass	331.0
Source Slit	18.96
Collector Slit	34.04
MIKES Slit	100.00
Alpha	70.30
Detector Voltage	400
Ion Energy	-2.60
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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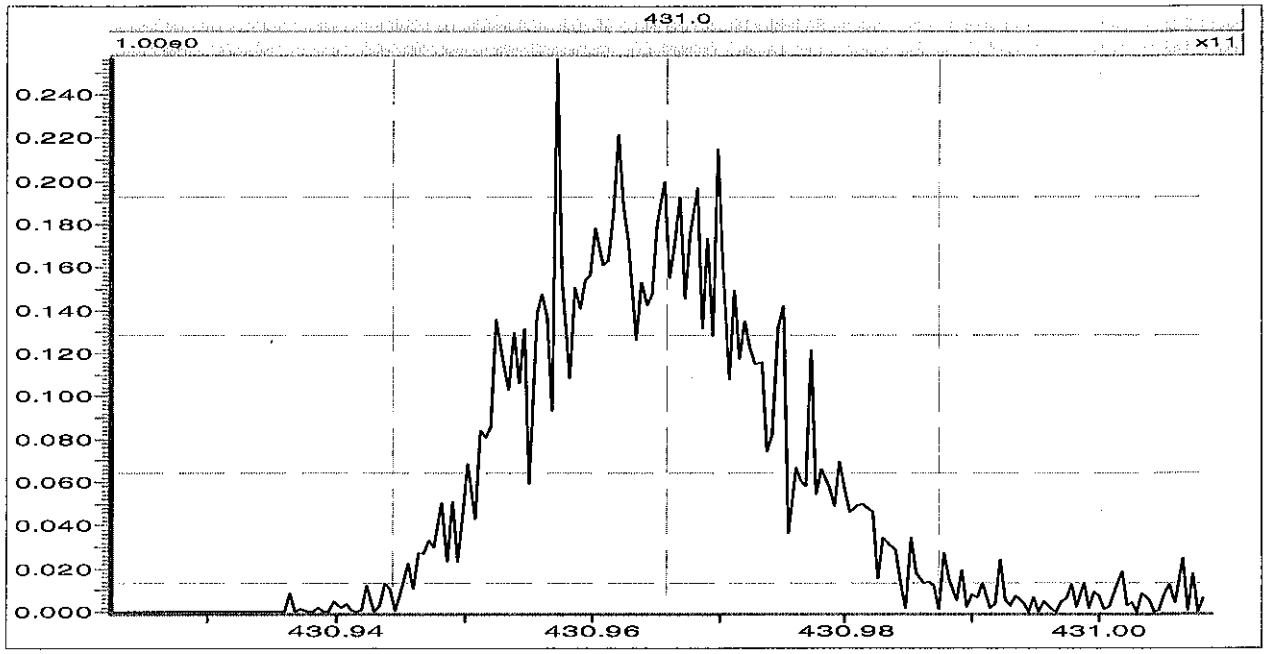
CL 3/7/14
Sw 3/7/14



Source (EI+)

Ion Repeller (V)	-8.13
Focus 1	927
Beam Centre	88.2
Focus 2	3818
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-146.2
Z Deflect 1	59.4
Z Deflect 2	-22.7
Z Focus 2	2159
Z Focus 3	0
Z Deflect 3	-42.5
Y Focus	3500
Rotate 2	-13.4
Curve 2	1.7
Curve 3	9.0
Rotate 3	-6.8
Rotate 4	-8.9
V Acc (V)	7993.83
Magnet Mass	331.0
Source Slit	18.96
Collector Slit	34.04
MIKES Slit	100.00
Alpha	70.30
Detector Voltage	400
Ion Energy	-2.60
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

Appendix F

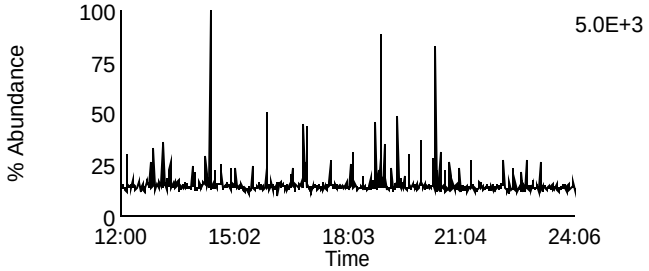
QC Raw Data

Homologue Group: Tetras

Data File Name: F140228B_04
Date Acquired: 2/28/2014
Sample Description: Blank Blank-39430 - CVS

Lab Sample ID: BLANK-39430
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F140228B_04 G1 C1 - 303.9016
Blank Blank-39430 - CVS



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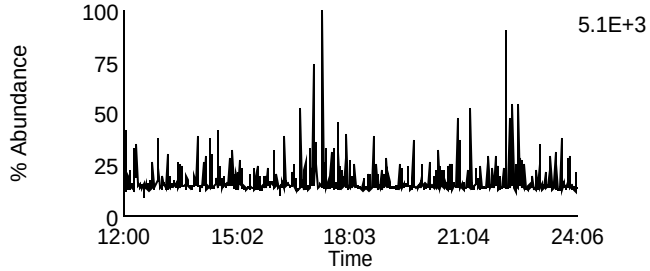

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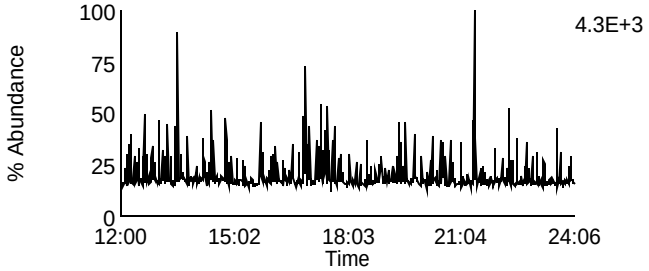

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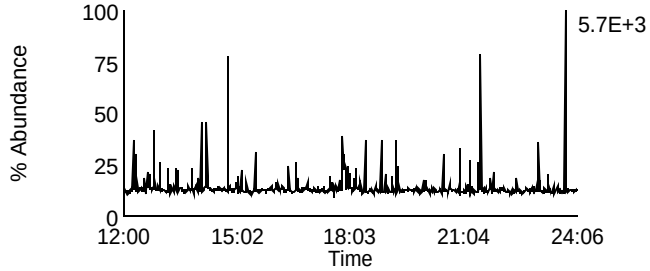

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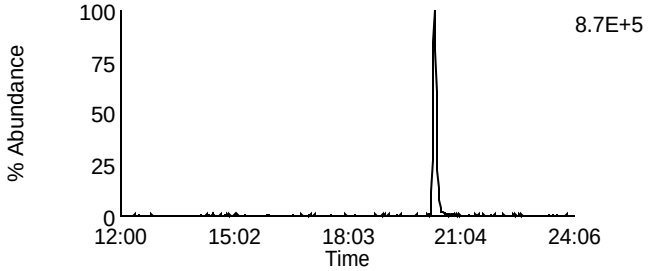

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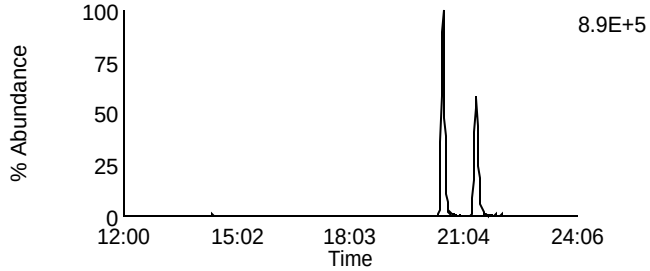

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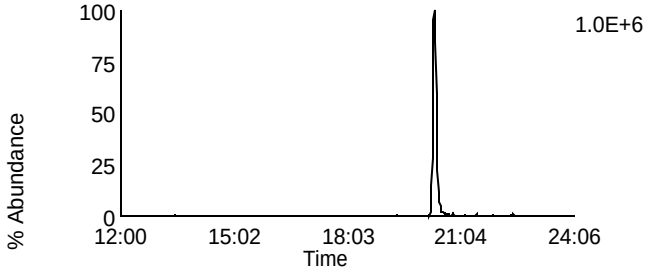

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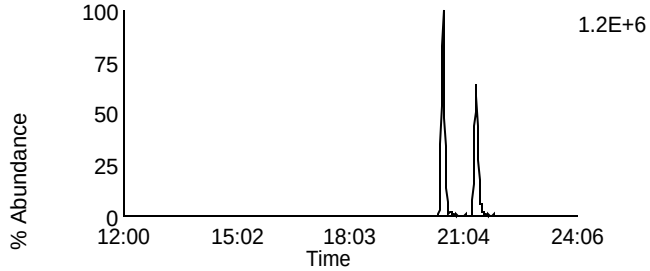

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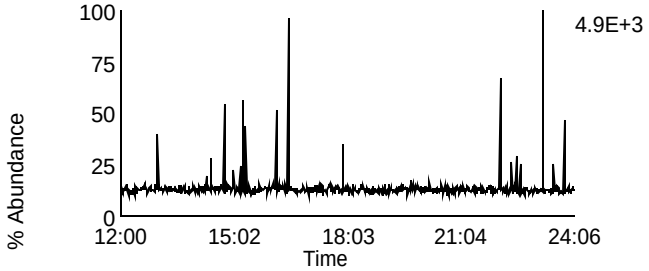

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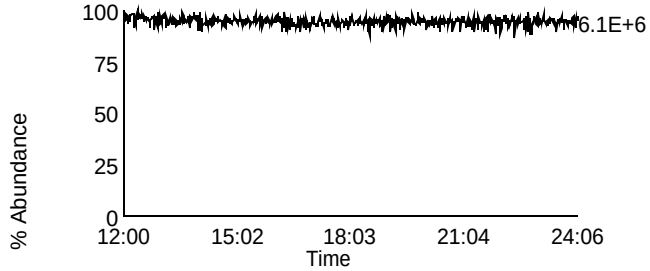
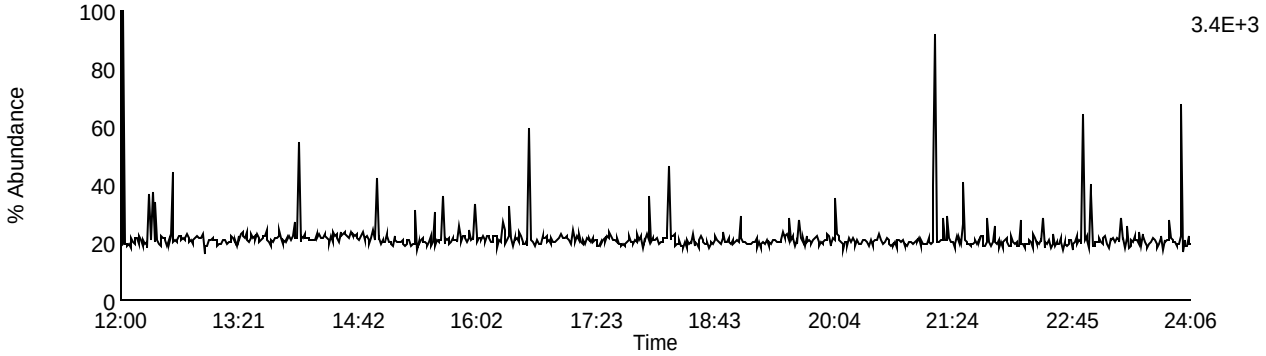


Homologue Group: Penta & Cleanup

Data File Name: F140228B_04	Lab Sample ID: BLANK-39430
Date Acquired: 2/28/2014	Client Sample ID:
Sample Description: Blank Blank-39430 - CVS	Instrument: 10MSHR05 (F)

Data File: F140228B_04 G1 C12 - 339.8597
Blank Blank-39430 - CVS



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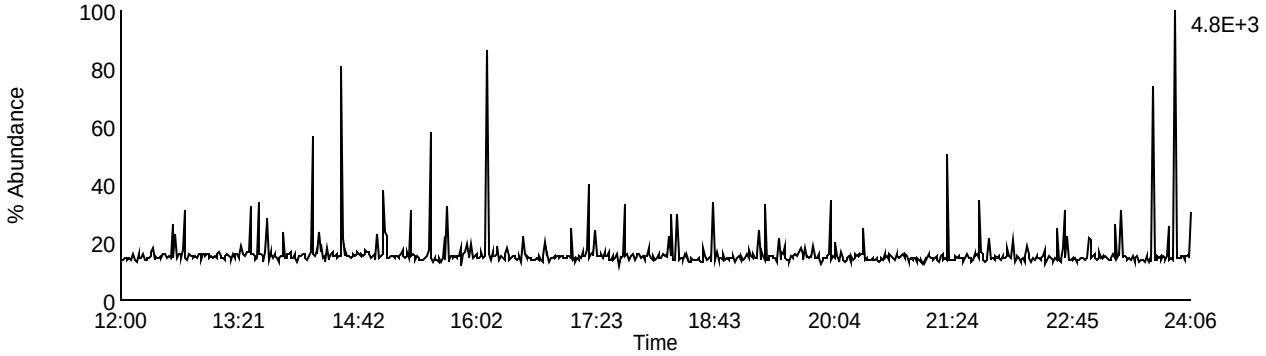

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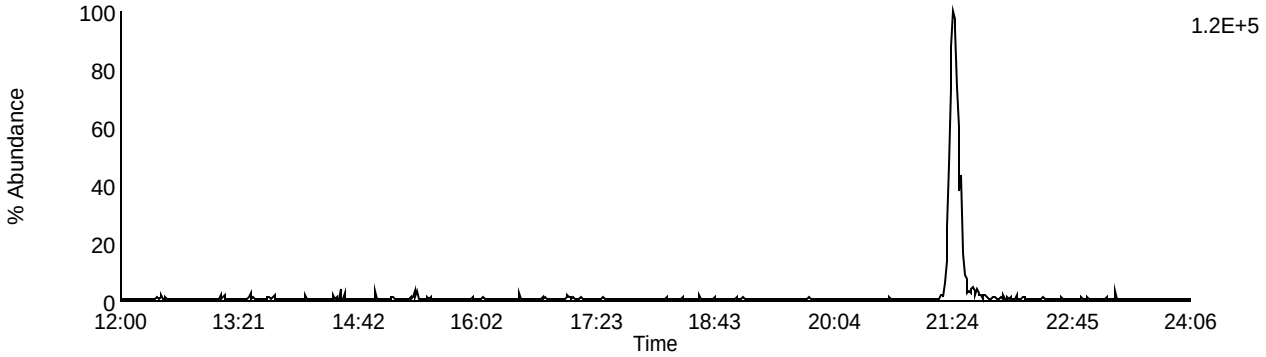

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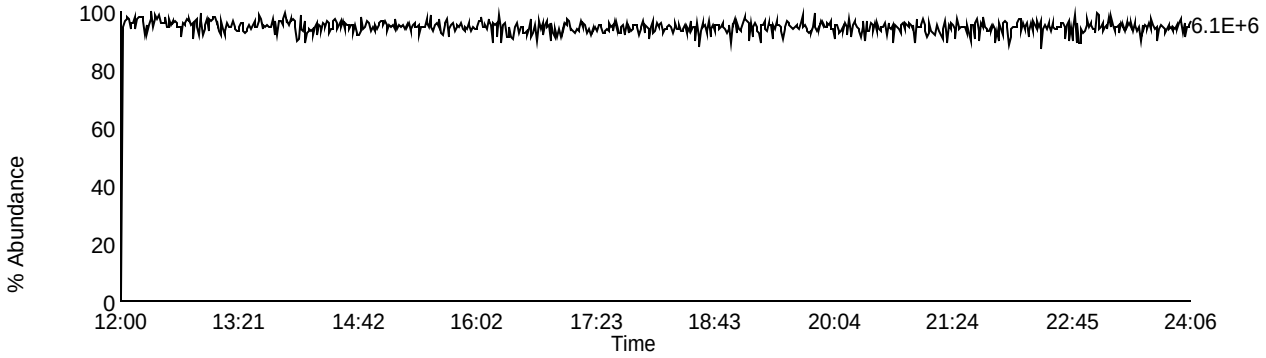

Homologue Group: Pentas

Data File Name: F140228B_04
Date Acquired: 2/28/2014
Sample Description: Blank Blank-39430 - CVS

Lab Sample ID: BLANK-39430
Client Sample ID:
Instrument: 10MSHR05 (F)

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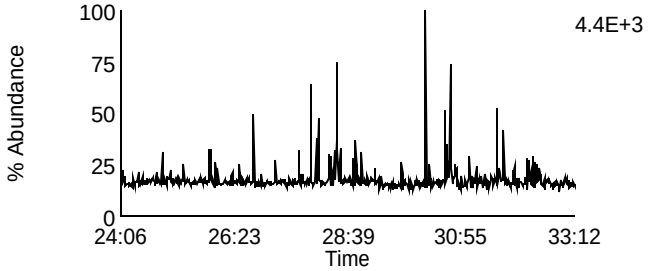

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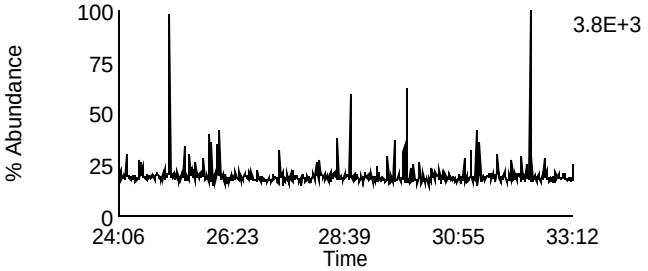

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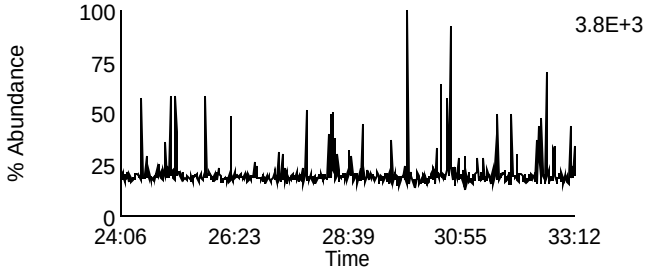

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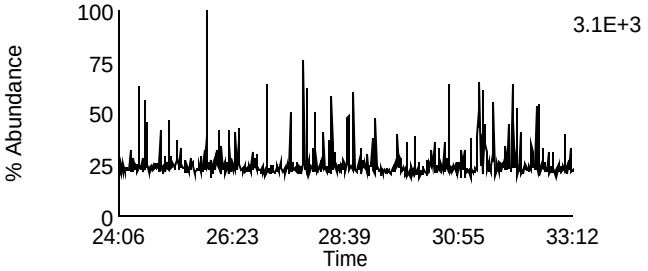

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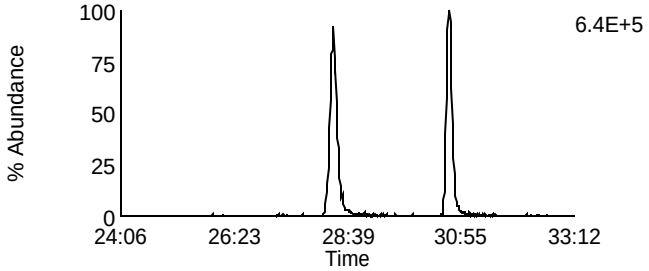

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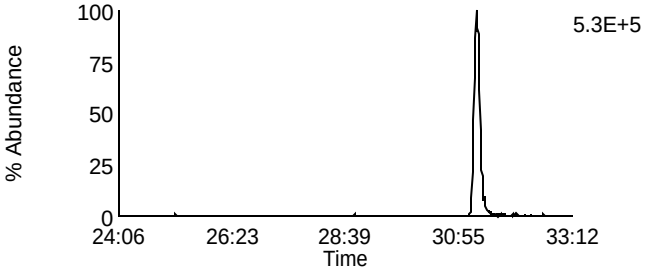

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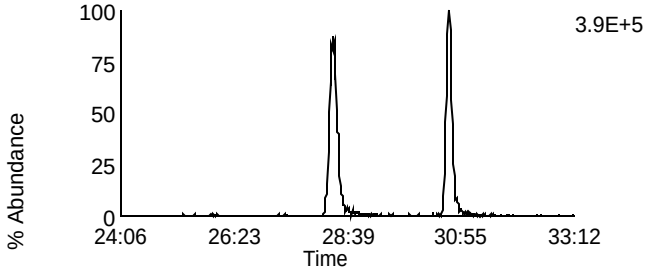

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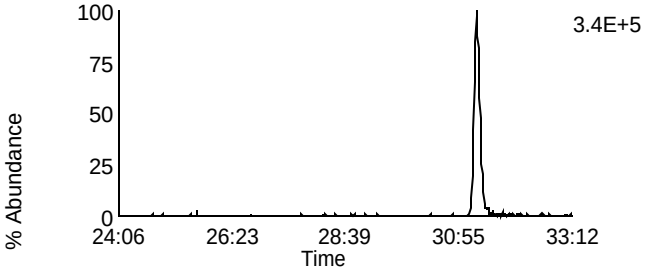

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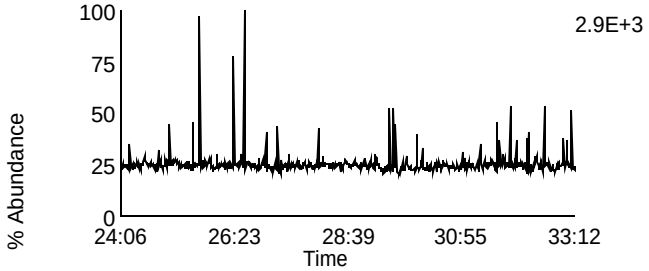

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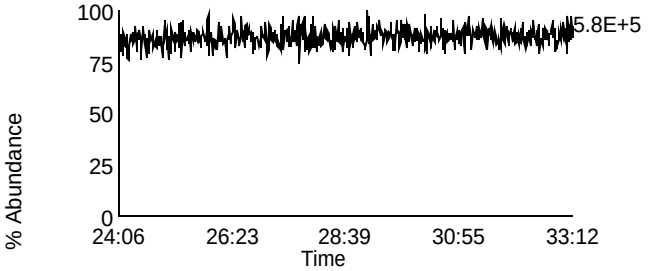

Homologue Group: Hexas

Data File Name: F140228B_04
Date Acquired: 2/28/2014
Sample Description: Blank Blank-39430 - CVS

Lab Sample ID: BLANK-39430
Client Sample ID:
Instrument: 10MSHR05 (F)

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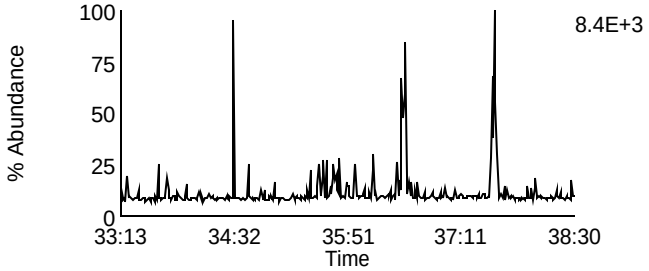

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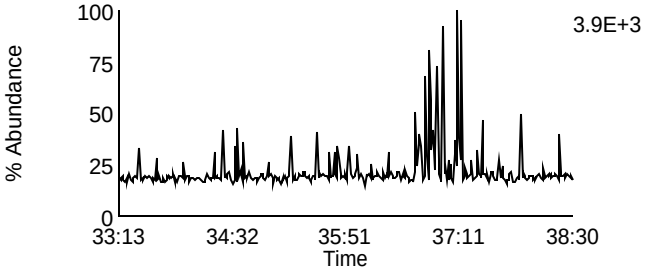

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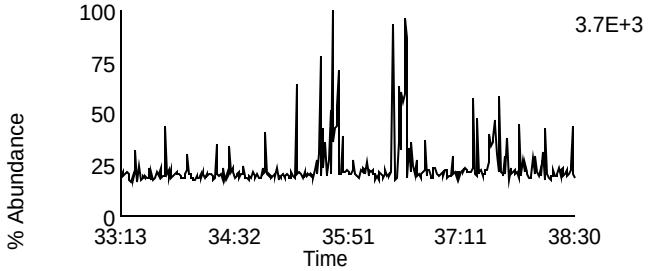

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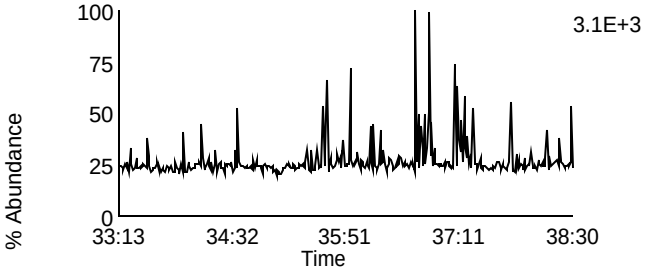

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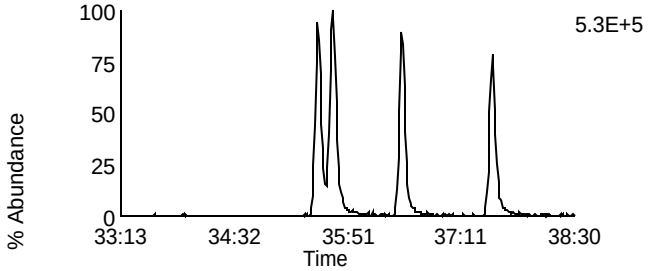

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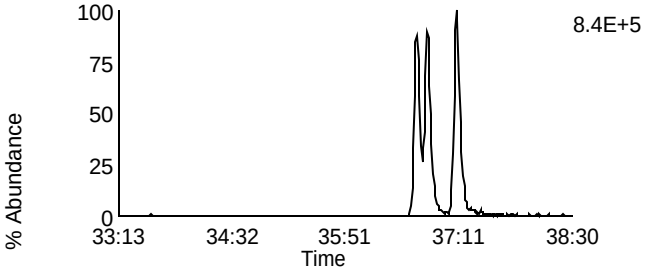

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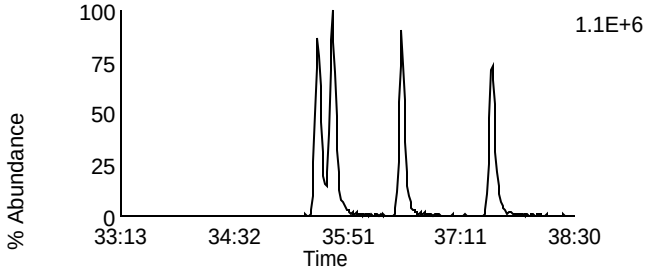

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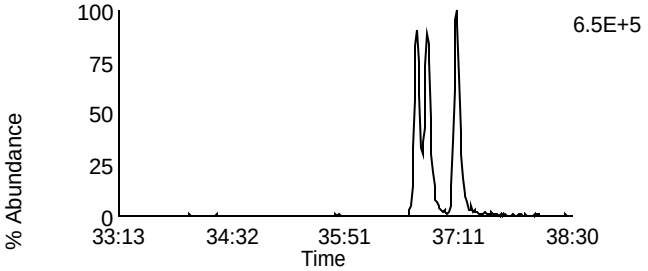

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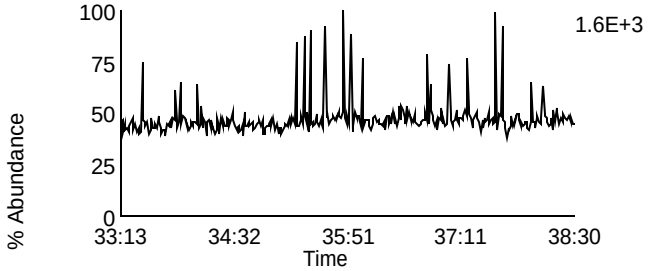

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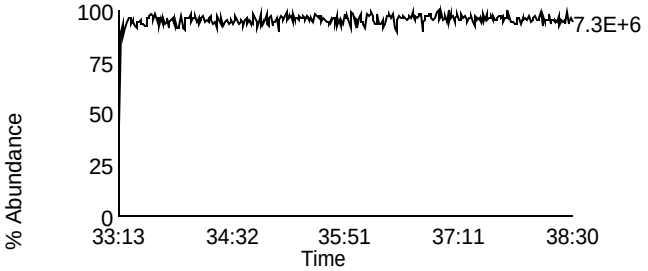

Homologue Group: Heptas

Data File Name: F140228B_04
Date Acquired: 2/28/2014
Sample Description: Blank Blank-39430 - CVS

Lab Sample ID: BLANK-39430
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F140228B_04 G4 C3 - 407.7818
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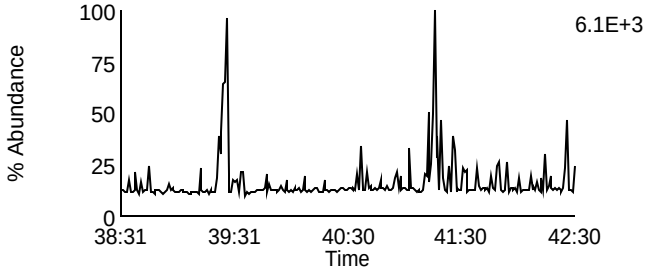

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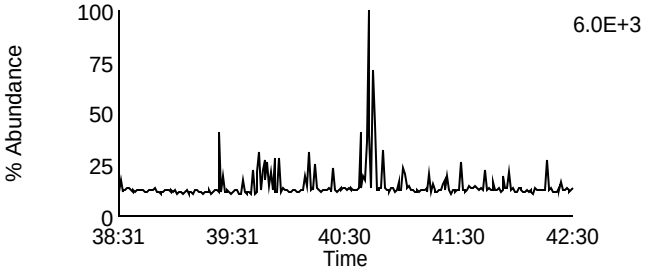

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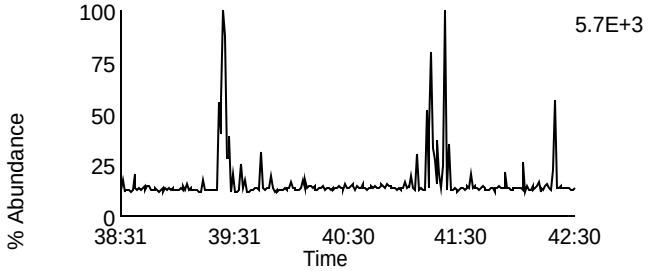

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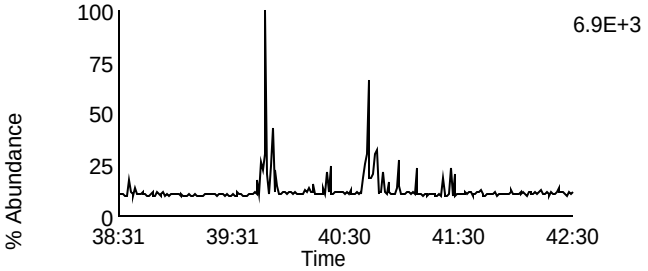
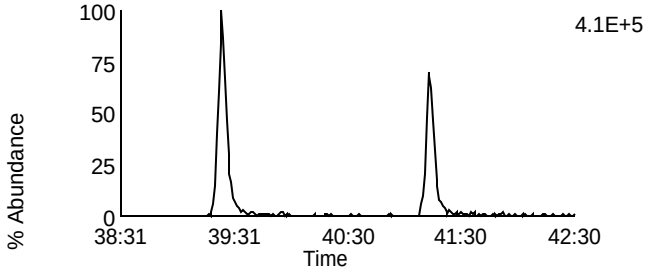
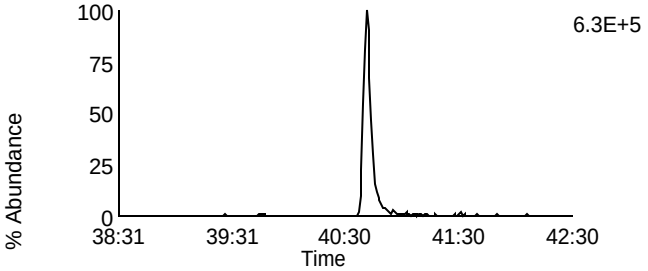


Data File: F140228B_04 G4 C6 - 417.825
Blank Blank-39430 - CVS



Data File: F140228B_04 G4 C11 - 435.8169
Blank Blank-39430 - CVS



Data File: F140228B_04 G4 C7 - 419.822
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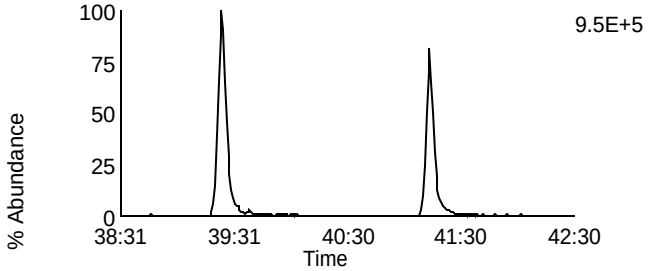

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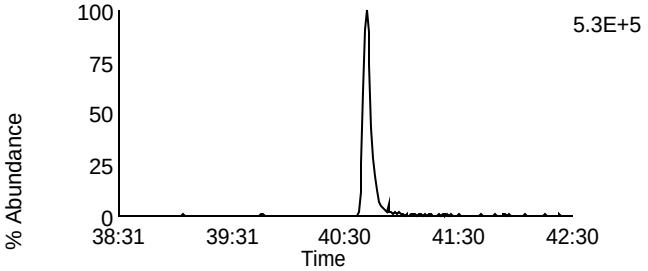

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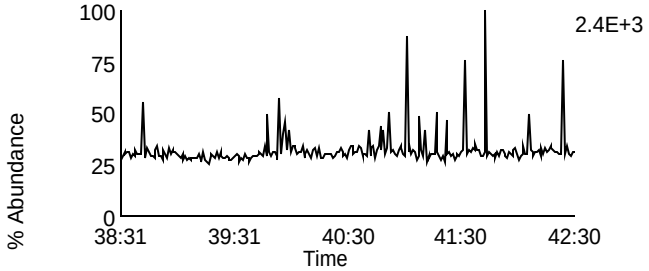
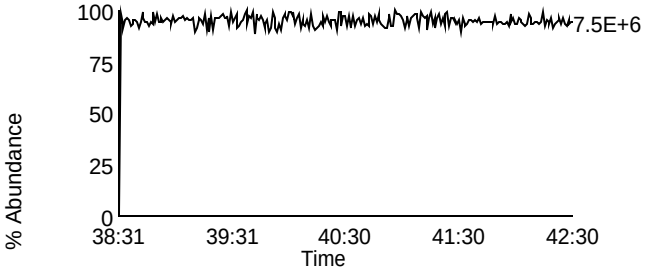
Blank Blank-39430 - CVS



Data File: F140228B_04 G4 C1 - 380.976
Blank Blank-39430 - CVS

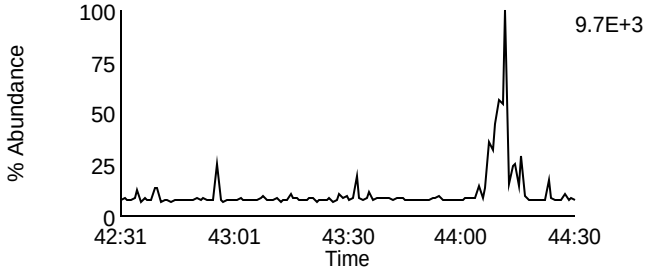


Homologue Group: Octas

Data File Name: F140228B_04
Date Acquired: 2/28/2014
Sample Description: Blank Blank-39430 - CVS

Lab Sample ID: BLANK-39430
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F140228B_04 G5 C4 - 441.7428
Blank Blank-39430 - CVS



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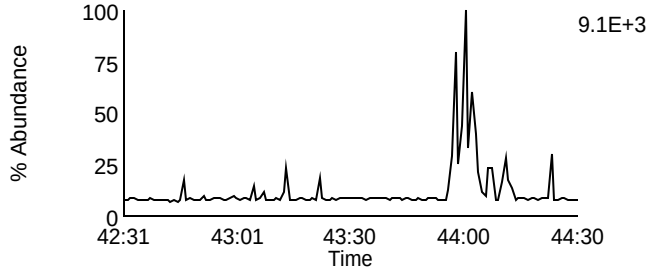
Blank Blank-39430 - CVS



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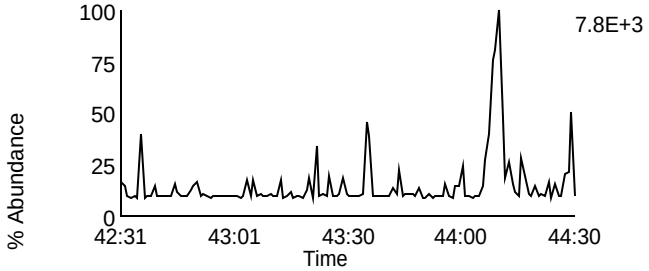
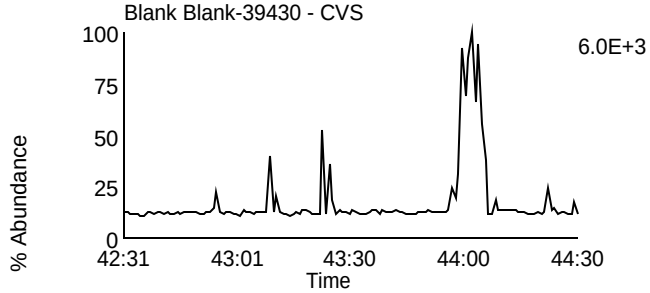
Blank Blank-39430 - CVS



Data File: F140228B_04 G5 C9 - 459.7347
Blank Blank-39430 - CVS



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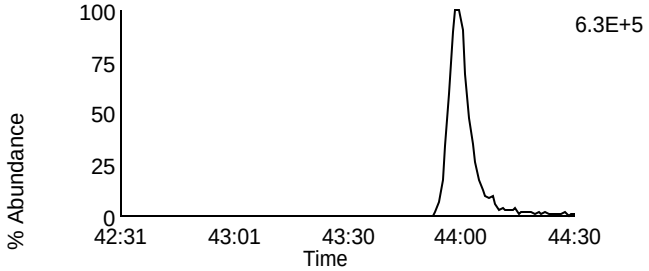
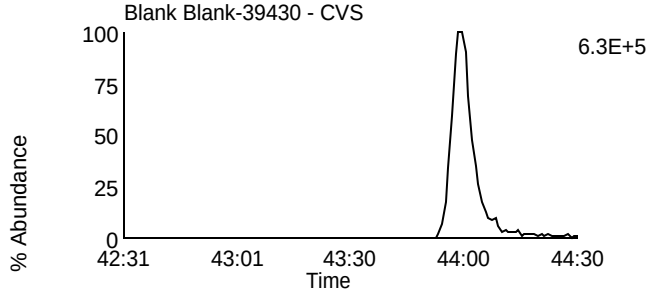
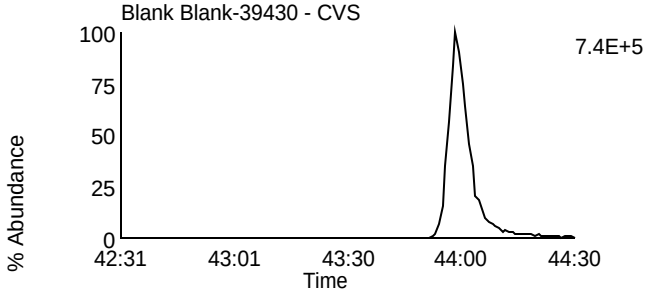
Blank Blank-39430 - CVS



Data File: F140228B_04 G5 C11 - 469.7779
Blank Blank-39430 - CVS



Data File: F140228B_04 G5 C12 - 471.7749
Blank Blank-39430 - CVS



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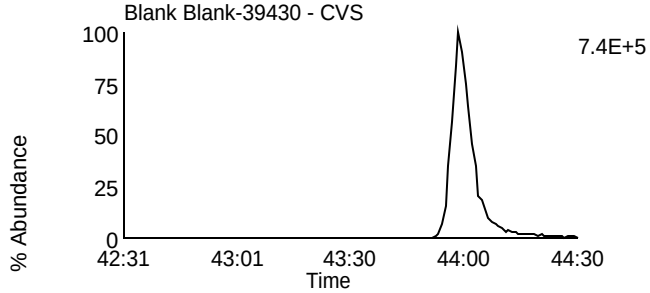
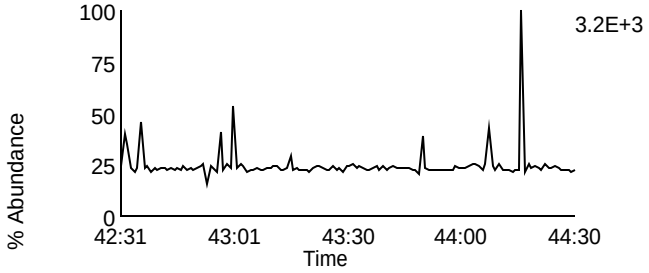
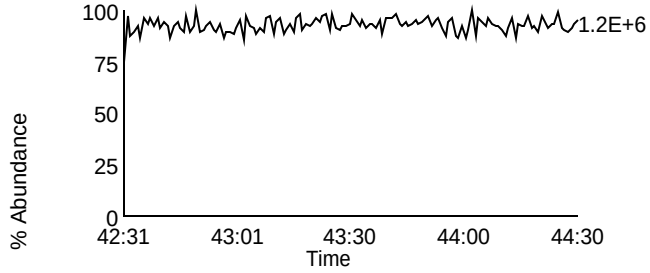


Data File: F140228B_04 G5 C13 - 513.6775
Blank Blank-39430 - CVS



Data File: F140228B_04 G5 C2 - 430.9728
Blank Blank-39430 - CVS

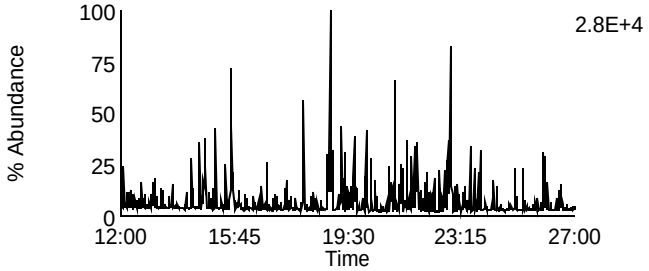


Homologue Group: Tetras

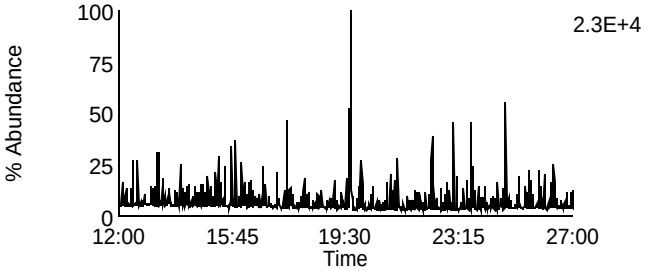
Data File Name: U140307A_06
Date Acquired: 3/7/2014
Sample Description: BLANK BLANK-39500 - SMT

Lab Sample ID: BLANK-39500
Client Sample ID:
Instrument: 10MSHR06 (U)

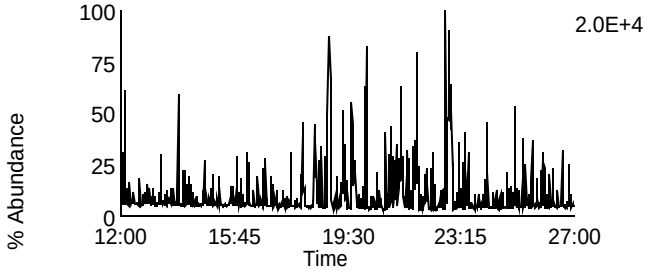
Data File: U140307A_06 G1 C1 - 303.9016
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C7 - 319.8965
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C2 - 305.8987
BLANK BLANK-39500 - SMT



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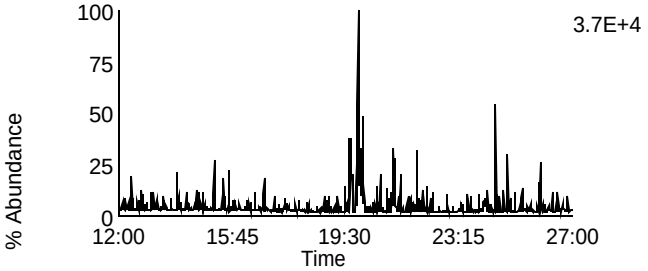

Data File: U140307A_06 G1 C3 - 315.9418
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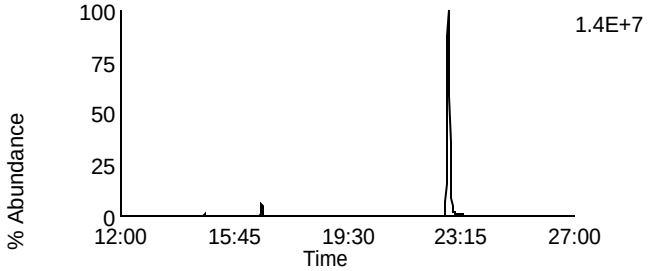
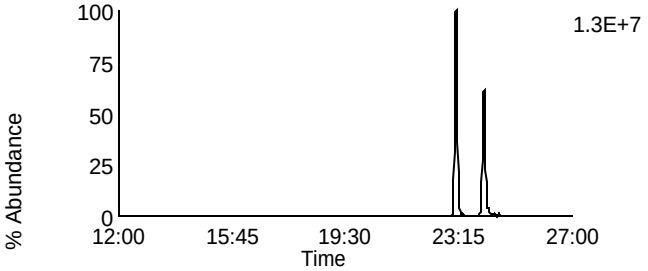
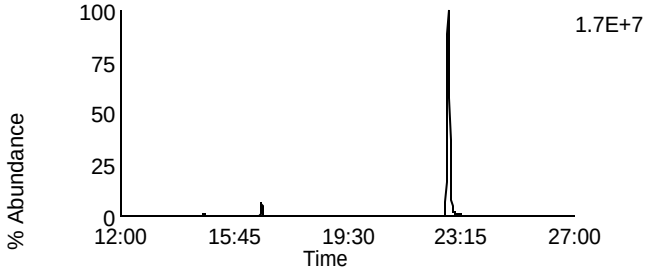


Data File: U140307A_06 G1 C10 - 331.9367
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C4 - 317.9389
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C11 - 333.9338
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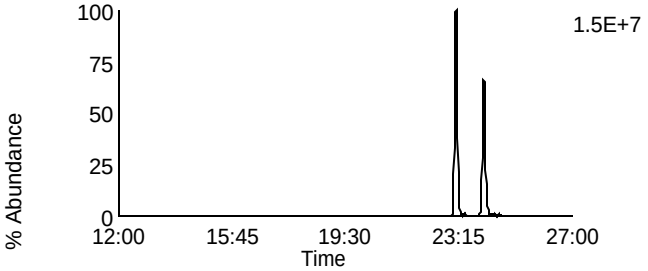
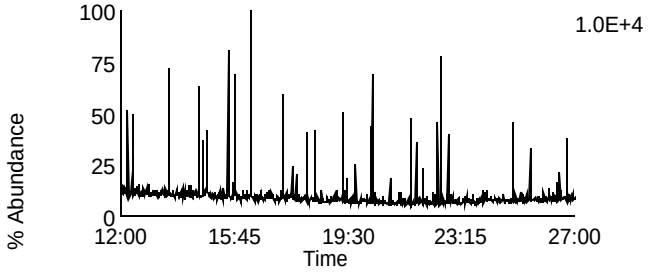
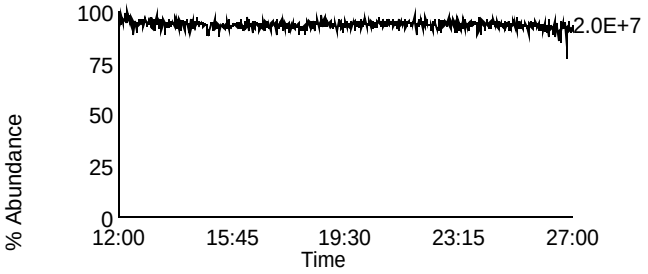


Data File: U140307A_06 G1 C14 - 375.8364
BLANK BLANK-39500 - SMT



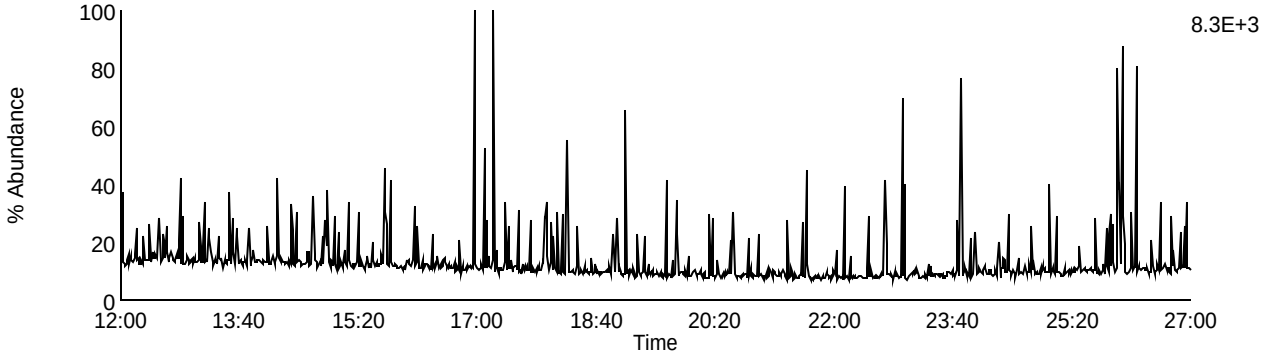
Data File: U140307A_06 G1 C5 - 318.9792
BLANK BLANK-39500 - SMT



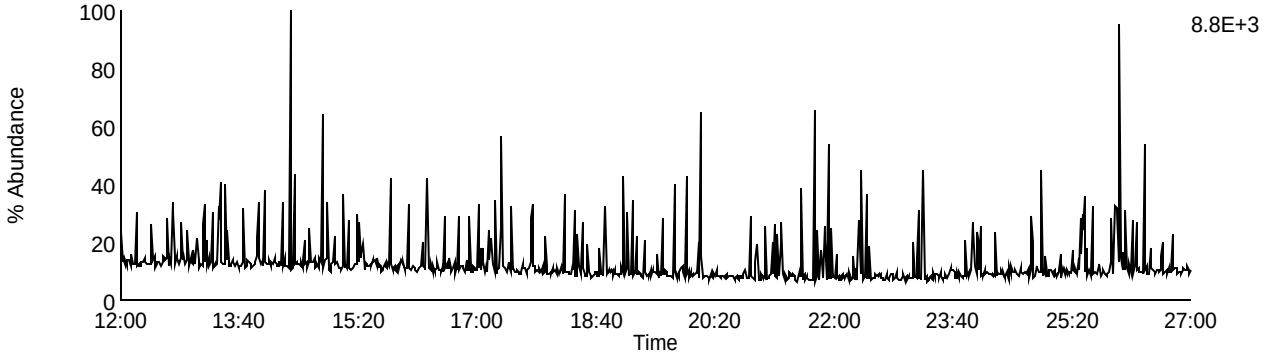
Homologue Group: Penta & Cleanup

Data File Name: U140307A_06	Lab Sample ID: BLANK-39500
Date Acquired: 3/7/2014	Client Sample ID:
Sample Description: BLANK BLANK-39500 - SMT	Instrument: 10MSHR06 (U)

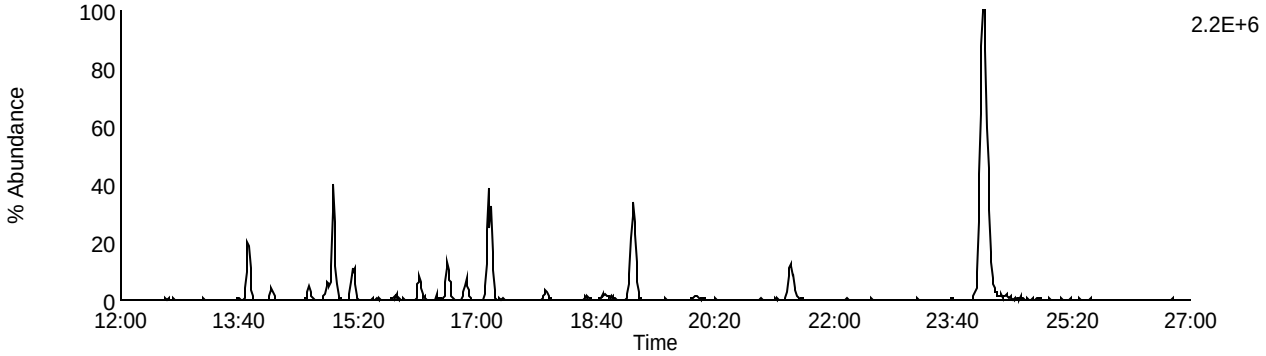
Data File: U140307A_06 G1 C12 - 339.8597
BLANK BLANK-39500 - SMT



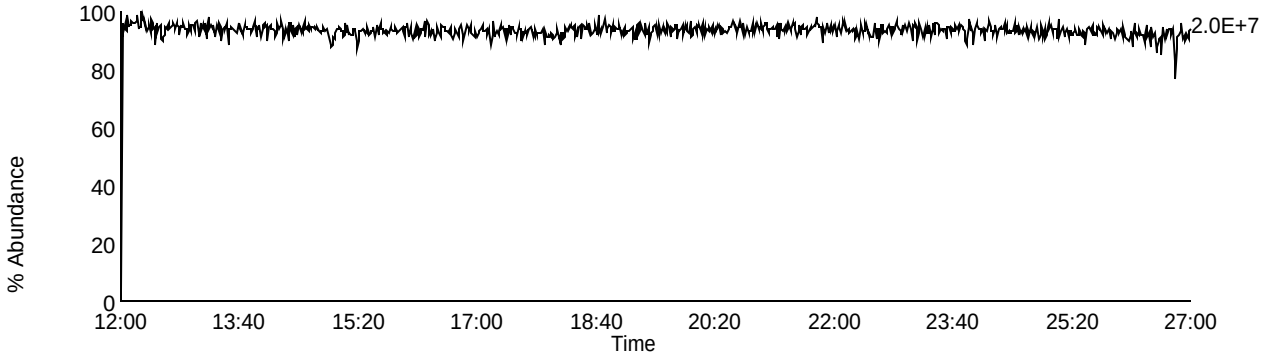
Data File: U140307A_06 G1 C13 - 341.8567
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C9 - 327.8847
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G1 C5 - 318.9792
BLANK BLANK-39500 - SMT

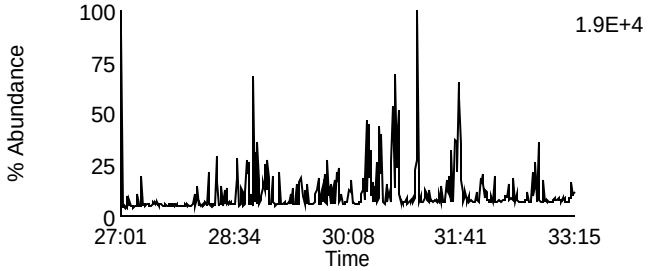


Homologue Group: Pentas

Data File Name: U140307A_06
Date Acquired: 3/7/2014
Sample Description: BLANK BLANK-39500 - SMT

Lab Sample ID: BLANK-39500
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140307A_06 G2 C1 - 339.8597
BLANK BLANK-39500 - SMT



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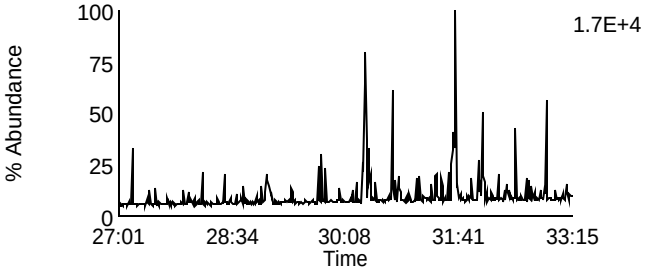
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G2 C2 - 341.8567
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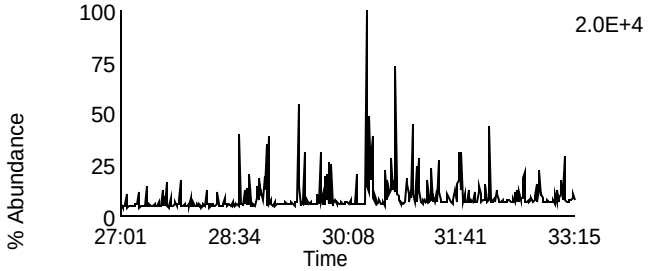

Data File: U140307A_06 G2 C8 - 355.8546
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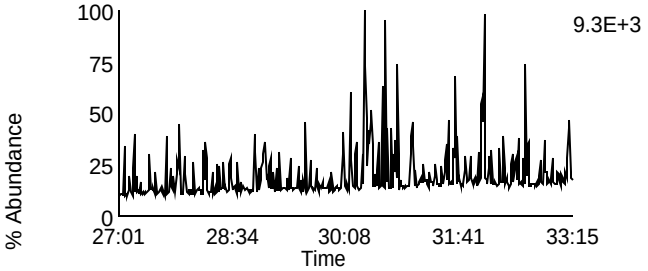

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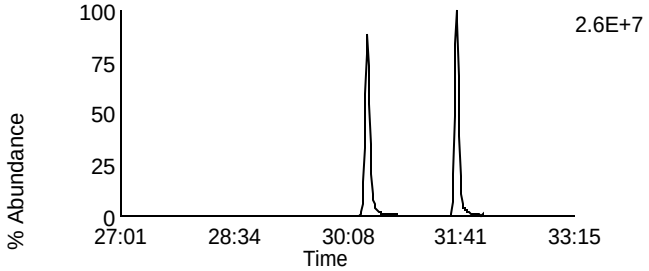
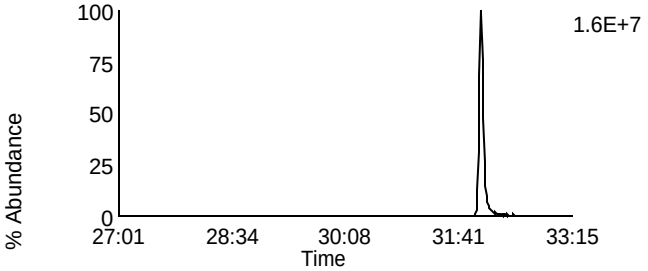
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G2 C10 - 367.8948
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G2 C5 - 353.8969
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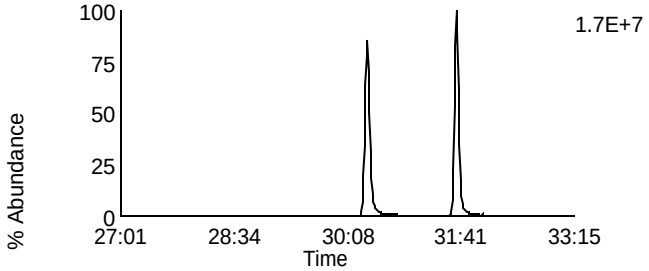

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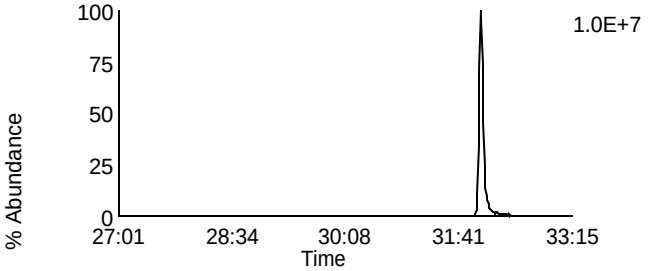

Data File: U140307A_06 G2 C12 - 409.7974
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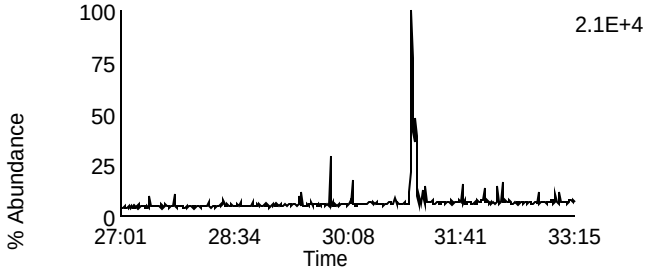
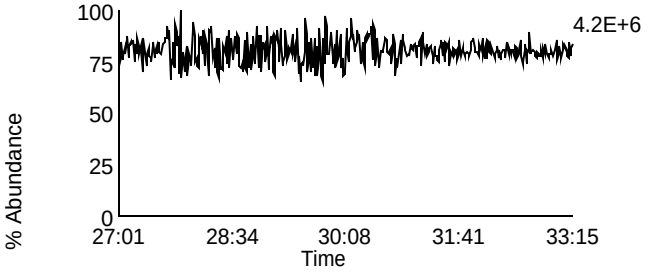


Data File: U140307A_06 G2 C6 - 354.9792
BLANK BLANK-39500 - SMT

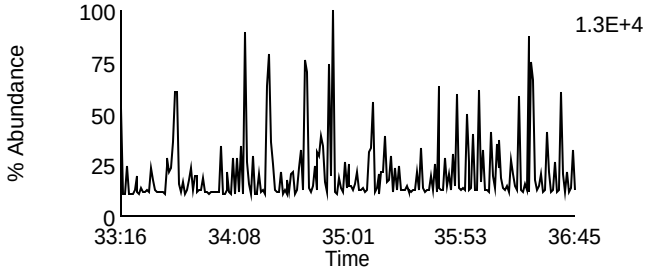


Homologue Group: Hexas

Data File Name: U140307A_06
Date Acquired: 3/7/2014
Sample Description: BLANK BLANK-39500 - SMT

Lab Sample ID: BLANK-39500
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140307A_06 G3 C1 - 373.8207
BLANK BLANK-39500 - SMT



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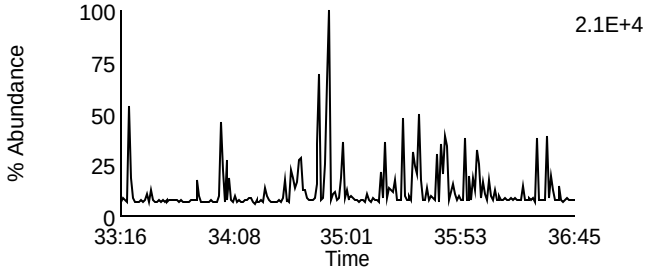

Data File: U140307A_06 G3 C2 - 375.8178
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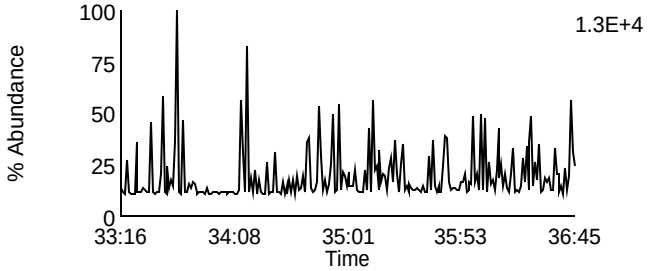

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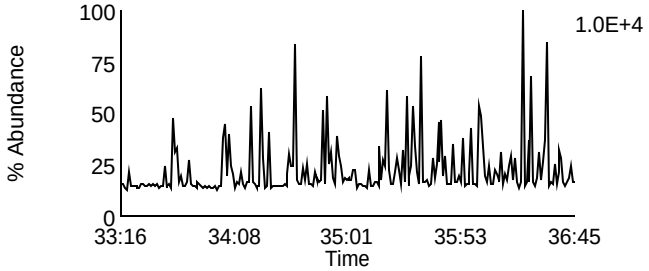

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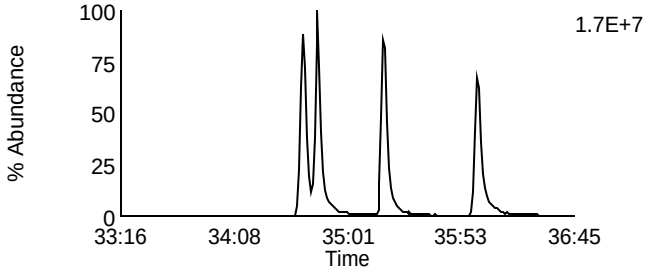

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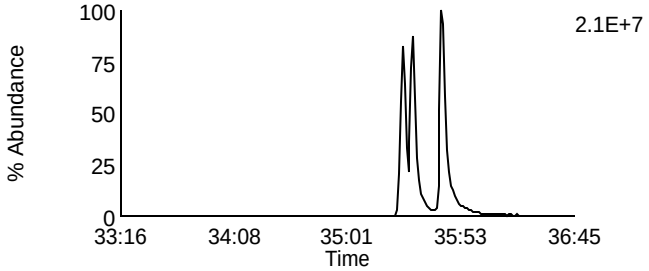

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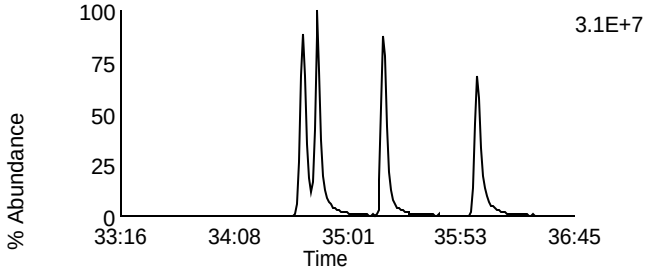

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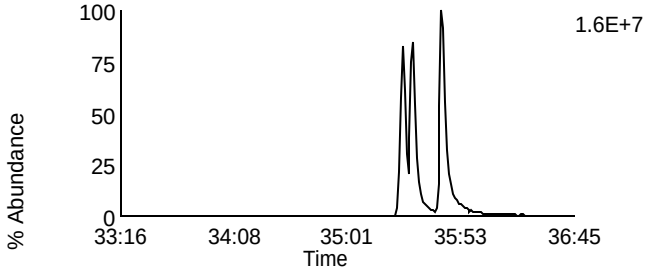
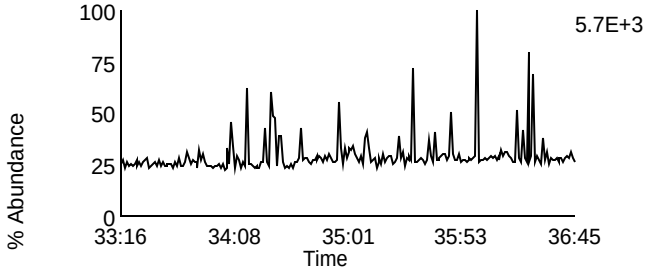
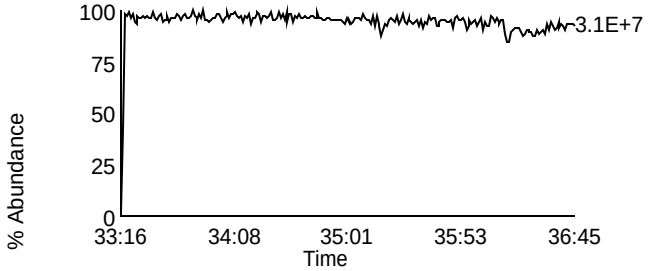


Data File: U140307A_06 G3 C11 - 445.7555
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G3 C3 - 380.976
BLANK BLANK-39500 - SMT

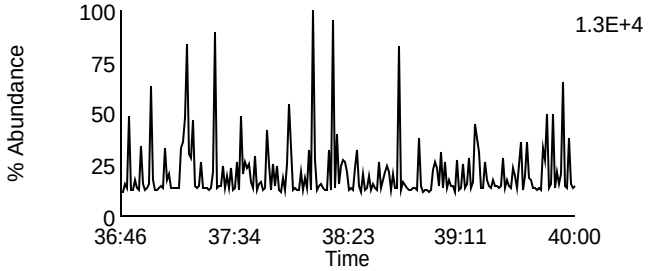


Homologue Group: Heptas

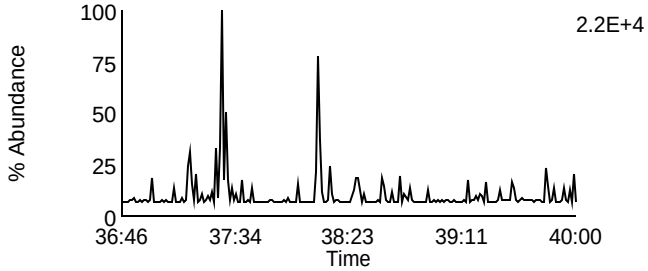
Data File Name: U140307A_06
Date Acquired: 3/7/2014
Sample Description: BLANK BLANK-39500 - SMT

Lab Sample ID: BLANK-39500
Client Sample ID:
Instrument: 10MSHR06 (U)

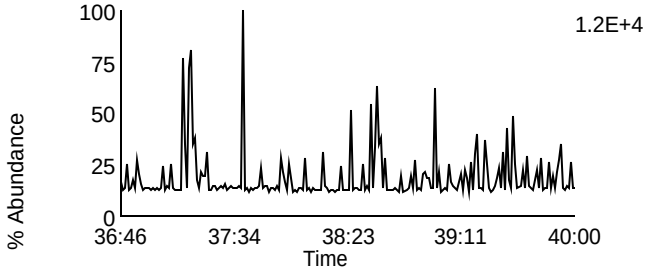
Data File: U140307A_06 G4 C3 - 407.7818
BLANK BLANK-39500 - SMT



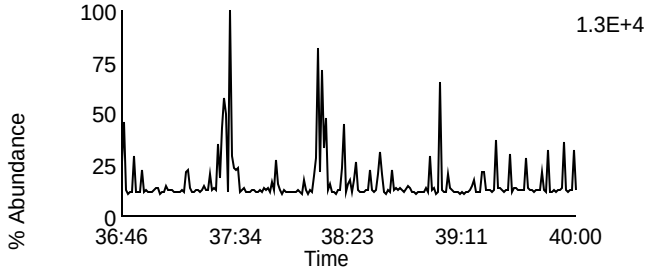
Data File: U140307A_06 G4 C8 - 423.7767
BLANK BLANK-39500 - SMT



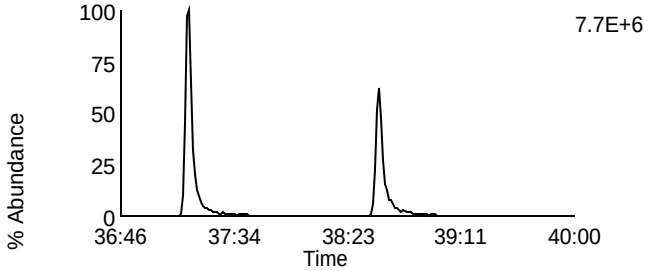
Data File: U140307A_06 G4 C4 - 409.7788
BLANK BLANK-39500 - SMT



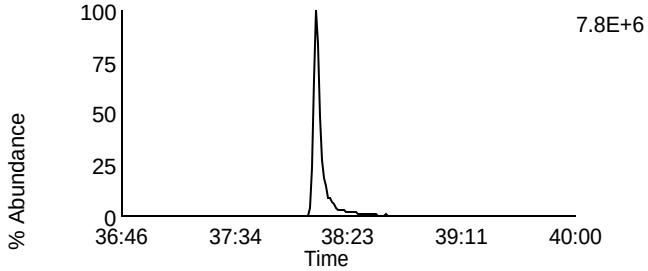
Data File: U140307A_06 G4 C9 - 425.7737
BLANK BLANK-39500 - SMT



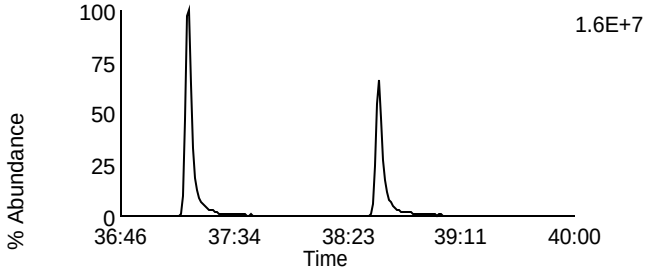
Data File: U140307A_06 G4 C6 - 417.825
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G4 C11 - 435.8169
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G4 C7 - 419.822
BLANK BLANK-39500 - SMT



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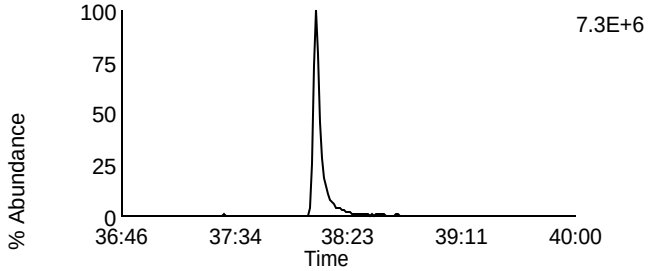
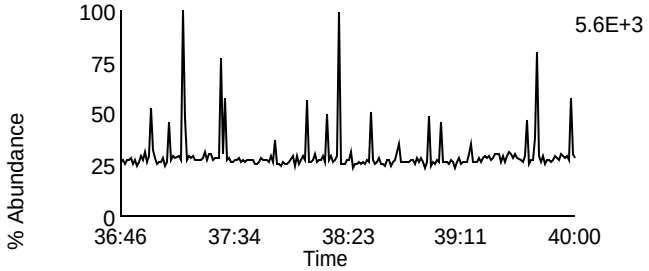
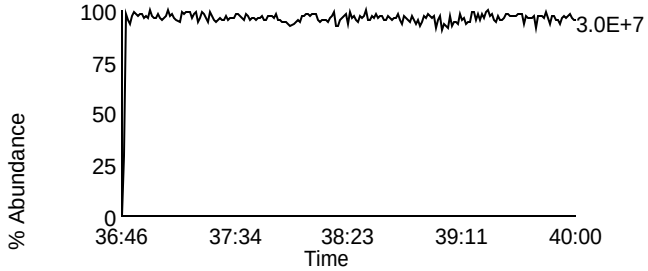
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G4 C13 - 479.7165
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G4 C1 - 380.976
BLANK BLANK-39500 - SMT

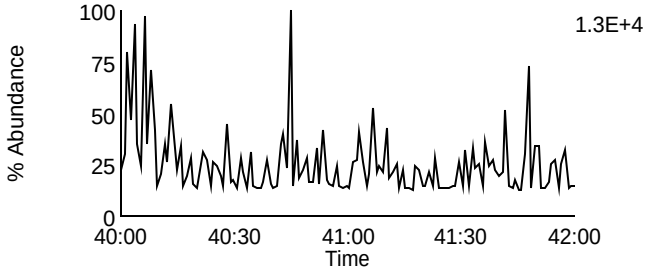


Homologue Group: Octas

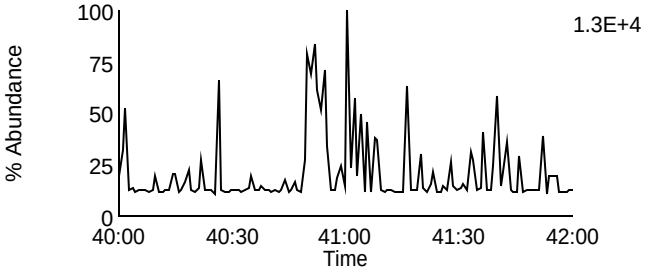
Data File Name: U140307A_06
Date Acquired: 3/7/2014
Sample Description: BLANK BLANK-39500 - SMT

Lab Sample ID: BLANK-39500
Client Sample ID:
Instrument: 10MSHR06 (U)

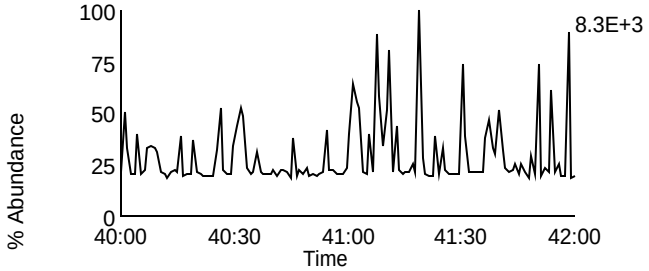
Data File: U140307A_06 G5 C4 - 441.7428
BLANK BLANK-39500 - SMT



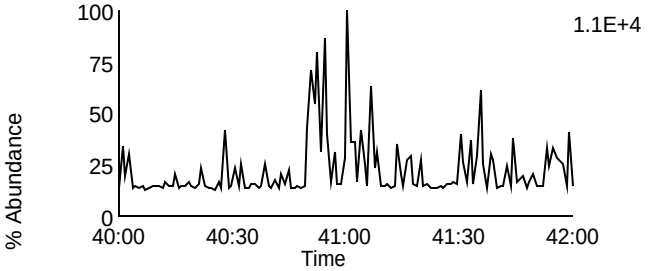
Data File: U140307A_06 G5 C8 - 457.7377
BLANK BLANK-39500 - SMT



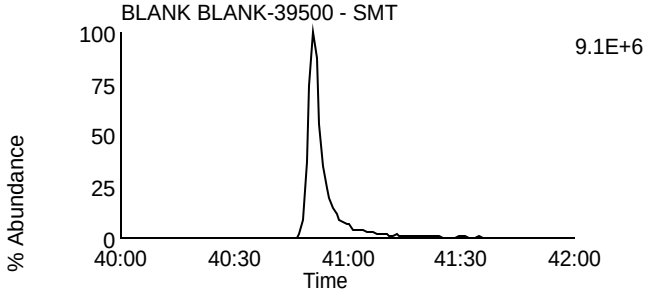
Data File: U140307A_06 G5 C5 - 443.7398
BLANK BLANK-39500 - SMT



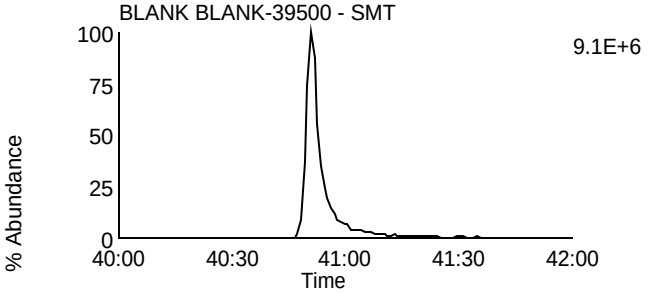
Data File: U140307A_06 G5 C9 - 459.7347
BLANK BLANK-39500 - SMT



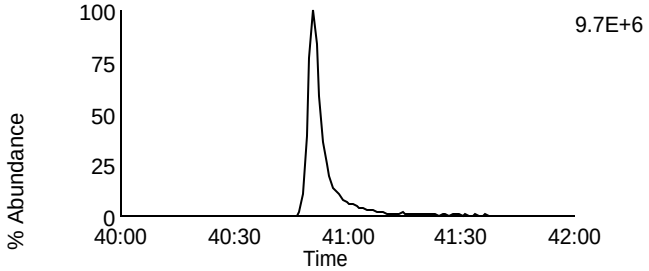
Data File: U140307A_06 G5 C11 - 469.7779
BLANK BLANK-39500 - SMT



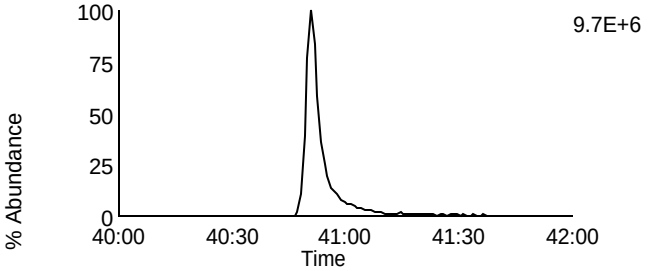
Data File: U140307A_06 G5 C11 - 469.7779
BLANK BLANK-39500 - SMT



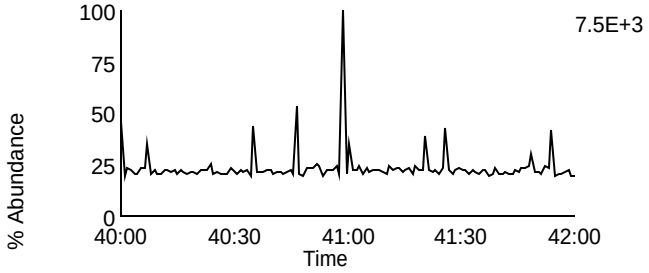
Data File: U140307A_06 G5 C12 - 471.7749
BLANK BLANK-39500 - SMT



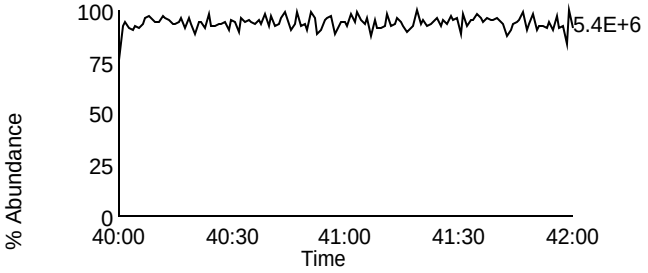
Data File: U140307A_06 G5 C12 - 471.7749
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G5 C13 - 513.6775
BLANK BLANK-39500 - SMT



Data File: U140307A_06 G5 C2 - 430.9728
BLANK BLANK-39500 - SMT

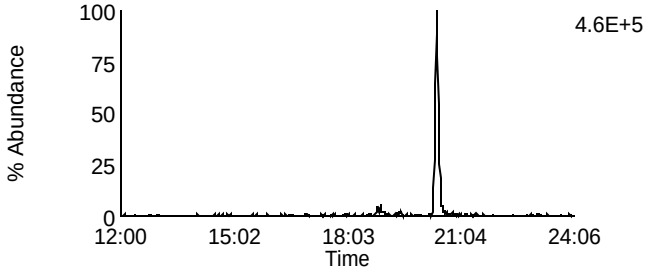


Homologue Group: Tetras

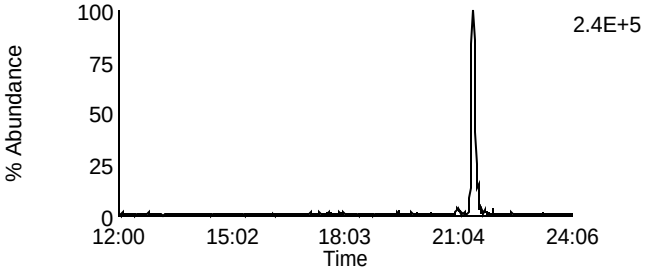
Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

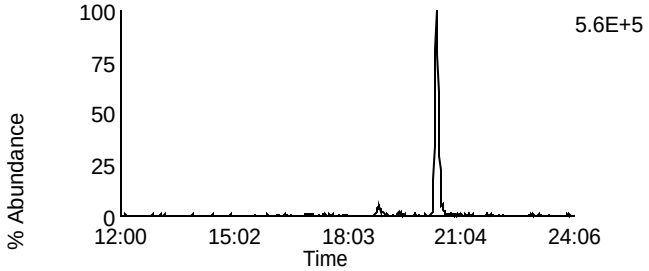
Data File: F140227B_14 G1 C1 - 303.9016
LCS LCS-39431 - SMT



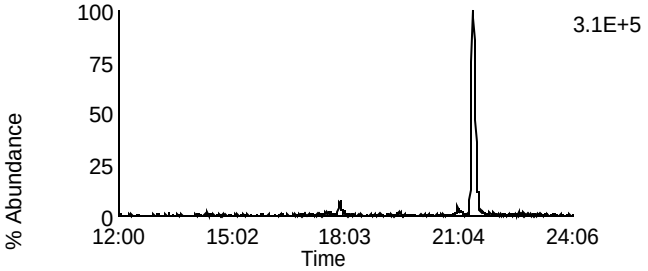
Data File: F140227B_14 G1 C7 - 319.8965
LCS LCS-39431 - SMT



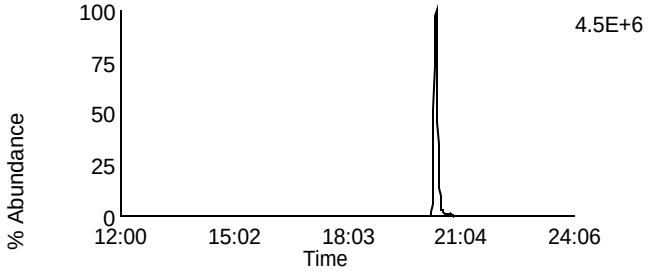
Data File: F140227B_14 G1 C2 - 305.8987
LCS LCS-39431 - SMT



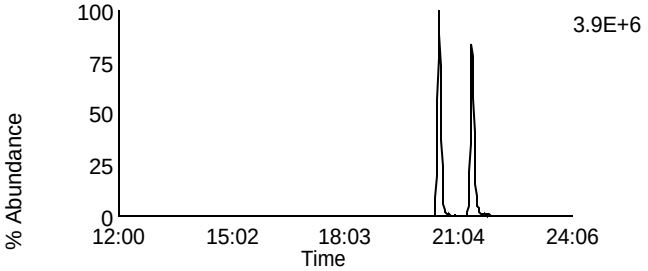
Data File: F140227B_14 G1 C8 - 321.8936
LCS LCS-39431 - SMT



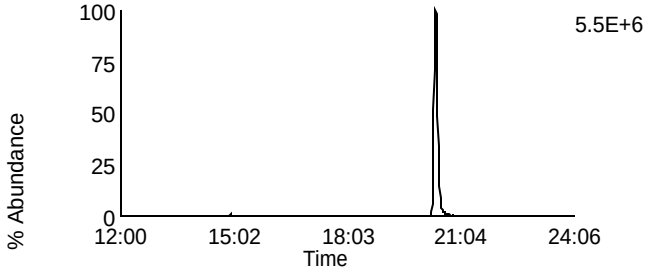
Data File: F140227B_14 G1 C3 - 315.9418
LCS LCS-39431 - SMT



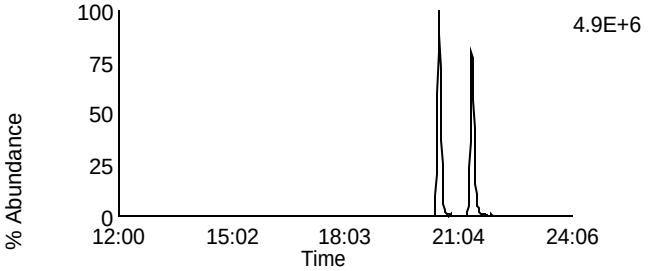
Data File: F140227B_14 G1 C10 - 331.9367
LCS LCS-39431 - SMT



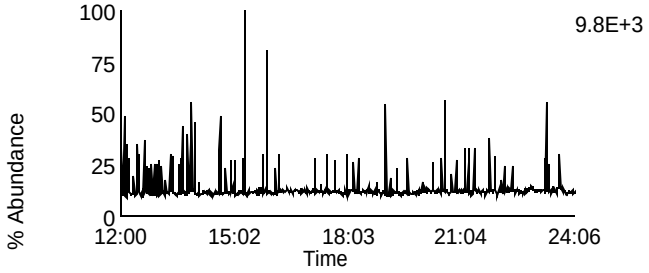
Data File: F140227B_14 G1 C4 - 317.9389
LCS LCS-39431 - SMT



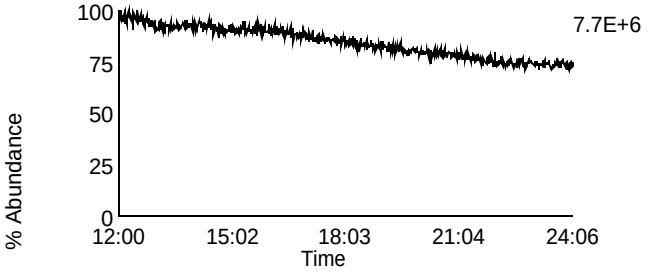
Data File: F140227B_14 G1 C11 - 333.9338
LCS LCS-39431 - SMT



Data File: F140227B_14 G1 C14 - 375.8364
LCS LCS-39431 - SMT



Data File: F140227B_14 G1 C5 - 318.9792
LCS LCS-39431 - SMT

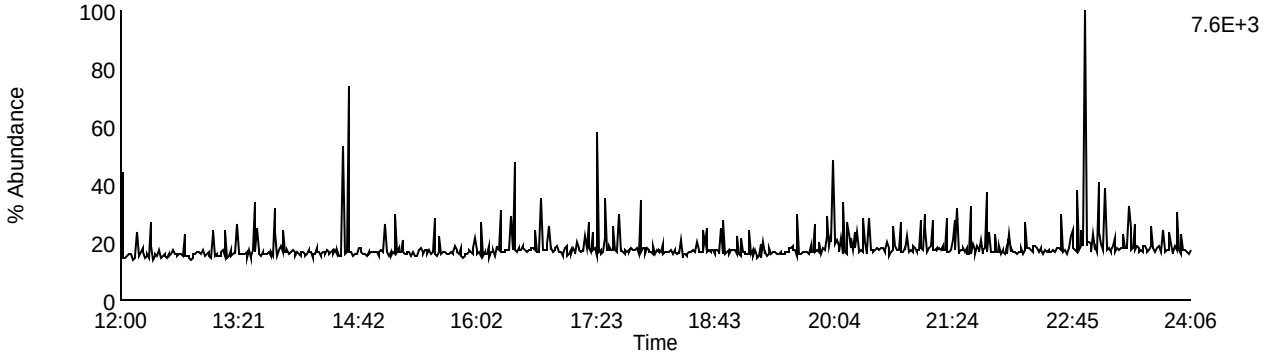


Homologue Group: Penta & Cleanup

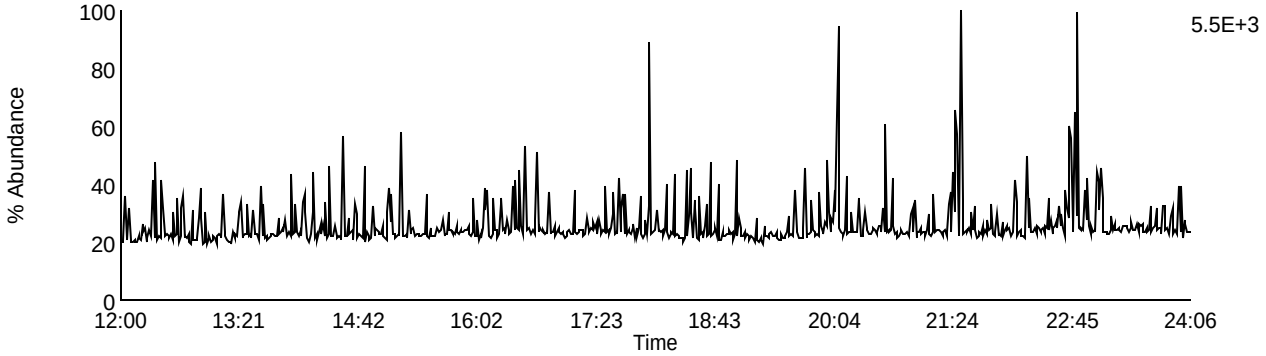
Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

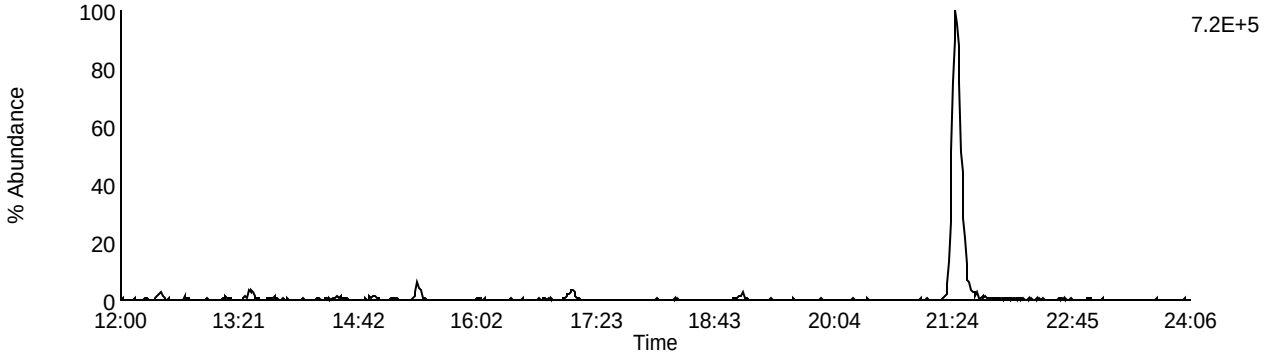
Data File: F140227B_14 G1 C12 - 339.8597
LCS LCS-39431 - SMT



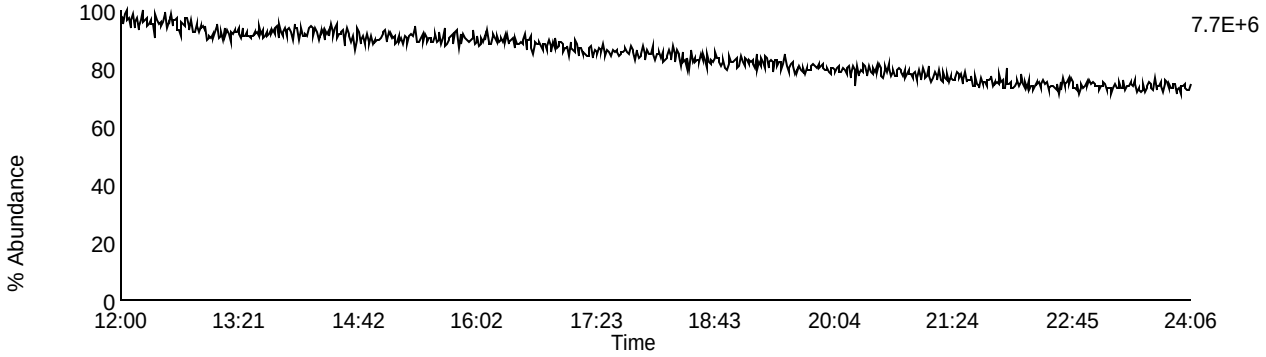
Data File: F140227B_14 G1 C13 - 341.8567
LCS LCS-39431 - SMT



Data File: F140227B_14 G1 C9 - 327.8847
LCS LCS-39431 - SMT



Data File: F140227B_14 G1 C5 - 318.9792
LCS LCS-39431 - SMT

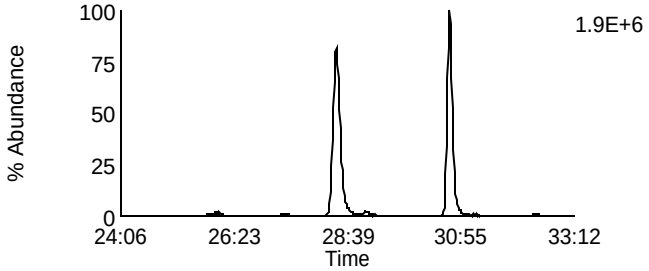


Homologue Group: Pentas

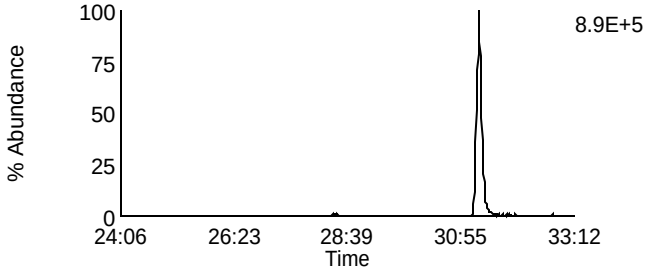
Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

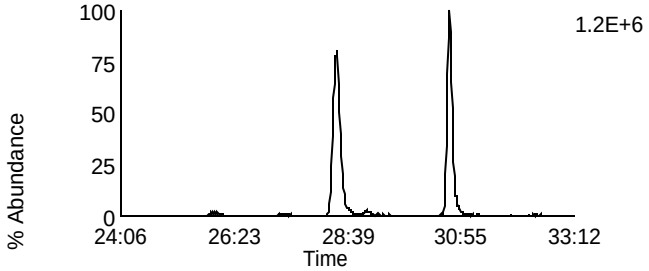
Data File: F140227B_14 G2 C1 - 339.8597
LCS LCS-39431 - SMT



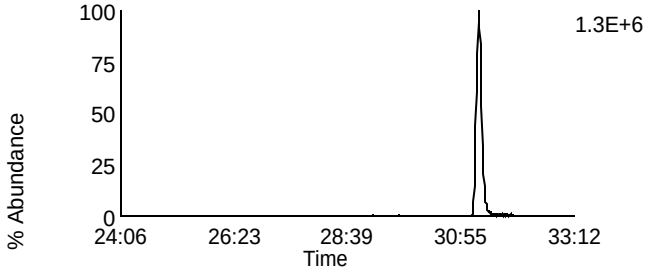
Data File: F140227B_14 G2 C4 - 353.8576
LCS LCS-39431 - SMT



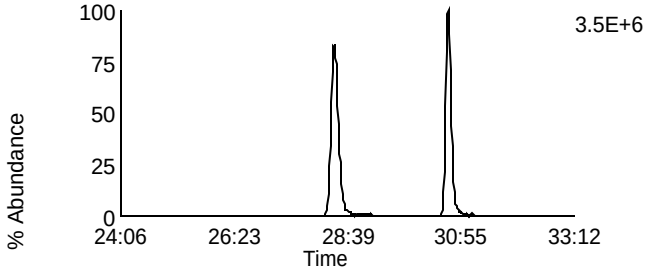
Data File: F140227B_14 G2 C2 - 341.8567
LCS LCS-39431 - SMT



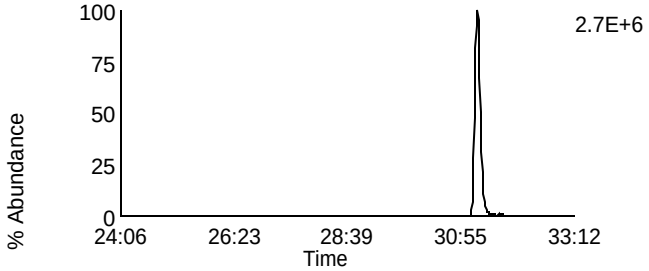
Data File: F140227B_14 G2 C8 - 355.8546
LCS LCS-39431 - SMT



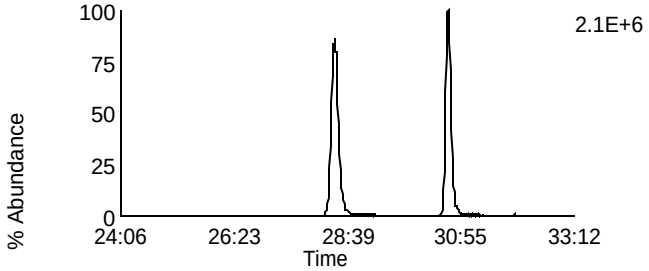
Data File: F140227B_14 G2 C3 - 351.8999
LCS LCS-39431 - SMT



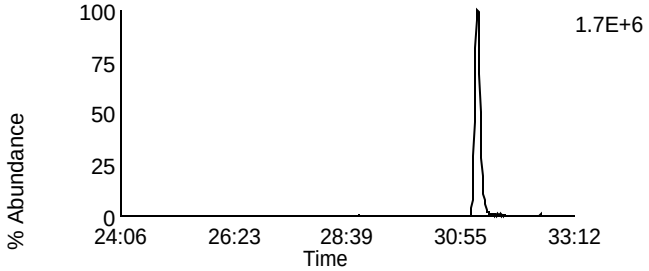
Data File: F140227B_14 G2 C10 - 367.8948
LCS LCS-39431 - SMT



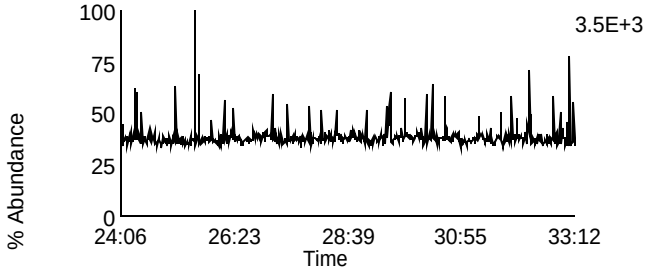
Data File: F140227B_14 G2 C5 - 353.8969
LCS LCS-39431 - SMT



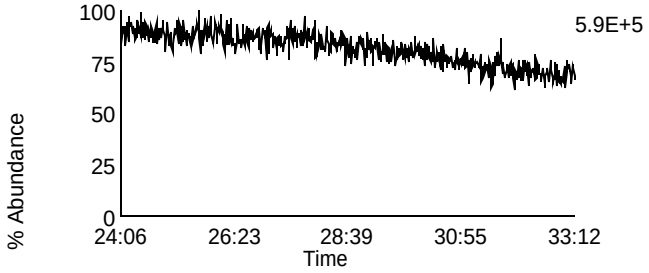
Data File: F140227B_14 G2 C11 - 369.8918
LCS LCS-39431 - SMT



Data File: F140227B_14 G2 C12 - 409.7974
LCS LCS-39431 - SMT



Data File: F140227B_14 G2 C6 - 354.9792
LCS LCS-39431 - SMT

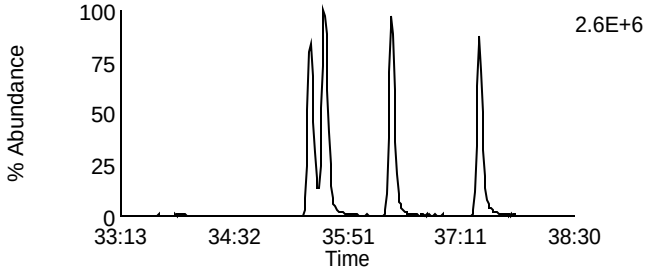


Homologue Group: Hexas

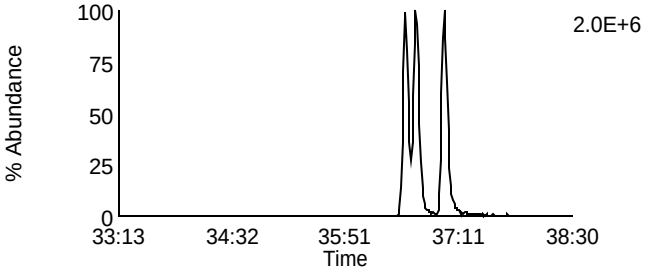
Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

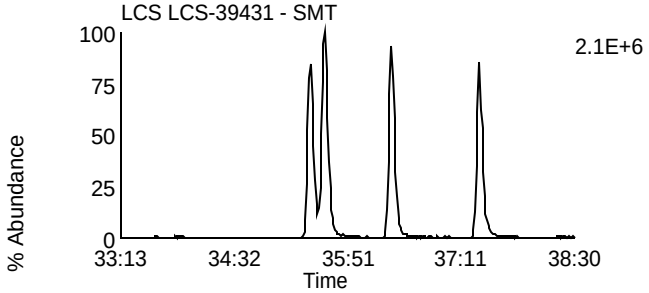
Data File: F140227B_14 G3 C1 - 373.8207
LCS LCS-39431 - SMT



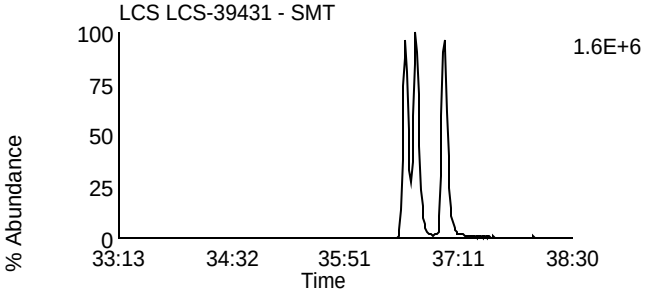
Data File: F140227B_14 G3 C7 - 389.8156
LCS LCS-39431 - SMT



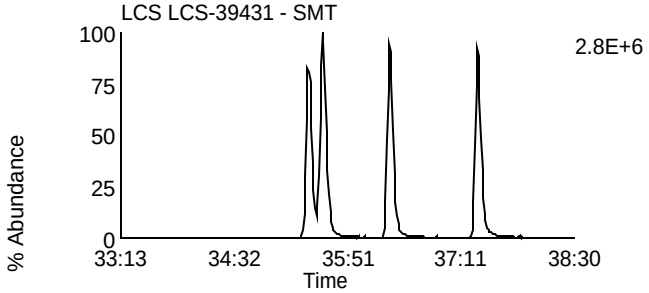
Data File: F140227B_14 G3 C2 - 375.8178
LCS LCS-39431 - SMT



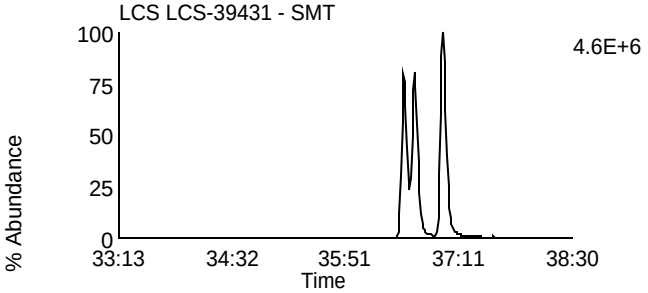
Data File: F140227B_14 G3 C8 - 391.8127
LCS LCS-39431 - SMT



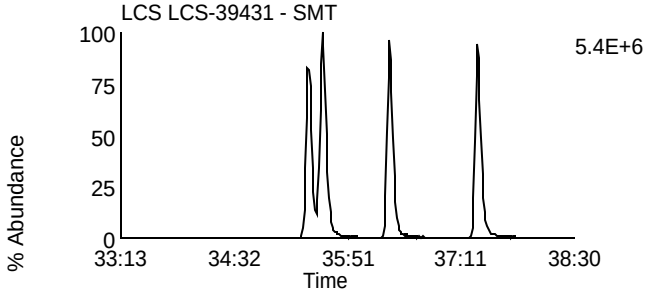
Data File: F140227B_14 G3 C5 - 383.8639
LCS LCS-39431 - SMT



Data File: F140227B_14 G3 C9 - 401.8559
LCS LCS-39431 - SMT



Data File: F140227B_14 G3 C6 - 385.861
LCS LCS-39431 - SMT



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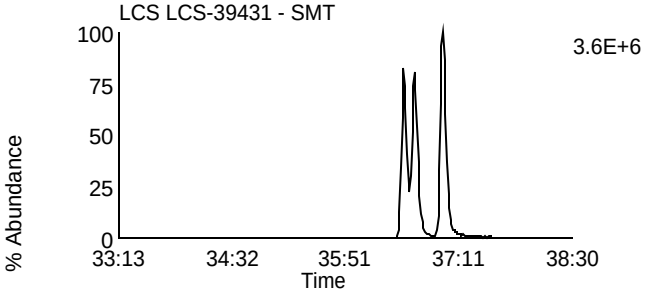
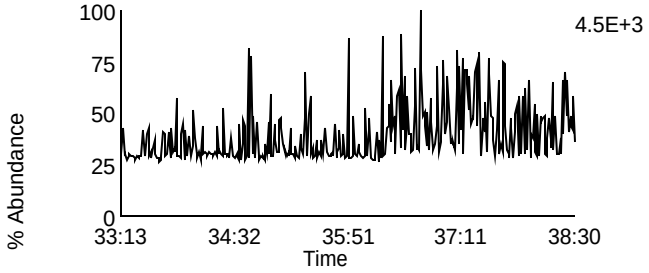
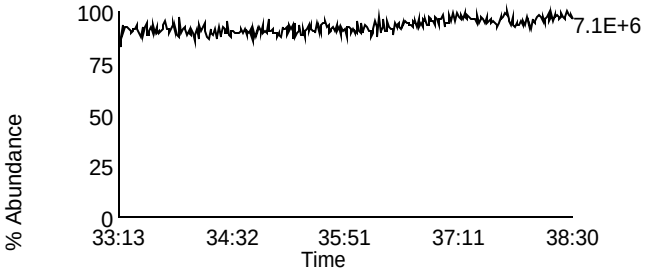
LCS LCS-39431 - SMT



Data File: F140227B_14 G3 C11 - 445.7555
LCS LCS-39431 - SMT



Data File: F140227B_14 G3 C3 - 380.976
LCS LCS-39431 - SMT

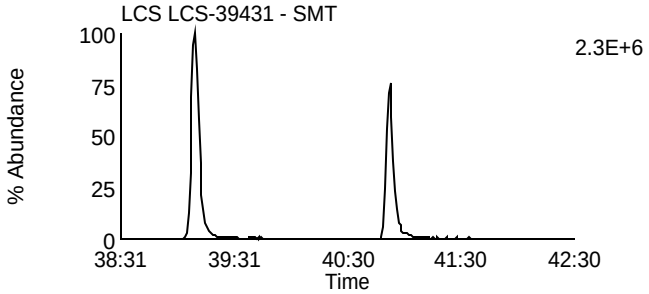


Homologue Group: Heptas

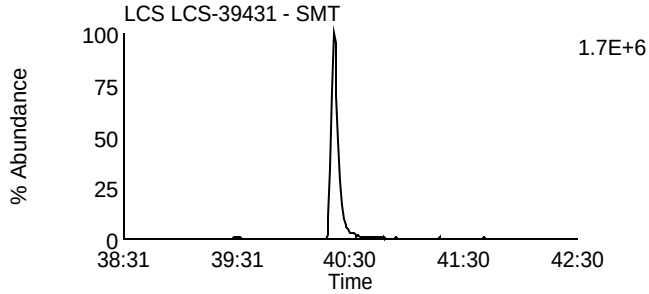
Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

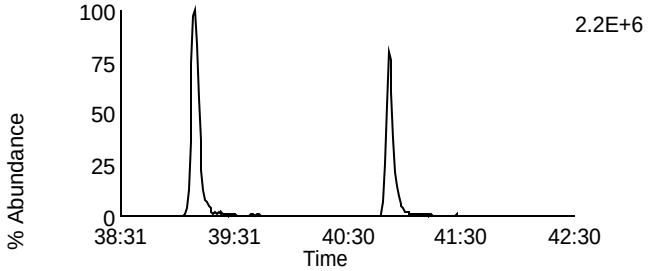
Data File: F140227B_14 G4 C3 - 407.7818
LCS LCS-39431 - SMT



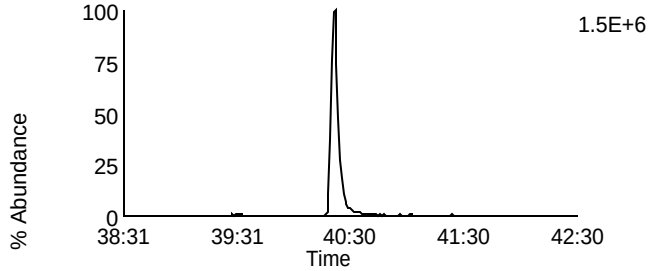
Data File: F140227B_14 G4 C8 - 423.7767
LCS LCS-39431 - SMT



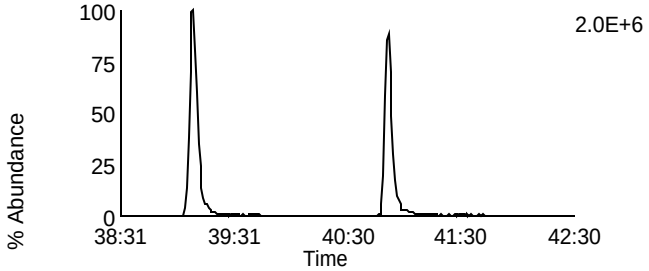
Data File: F140227B_14 G4 C4 - 409.7788
LCS LCS-39431 - SMT



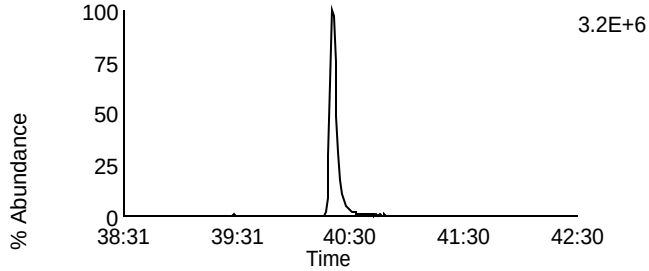
Data File: F140227B_14 G4 C9 - 425.7737
LCS LCS-39431 - SMT



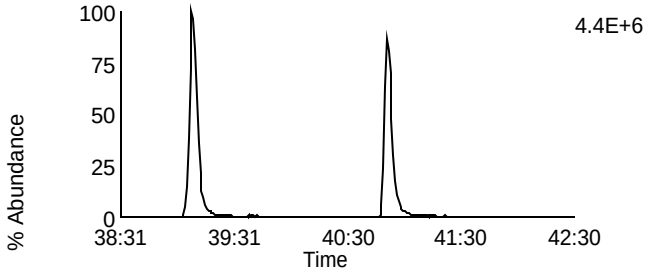
Data File: F140227B_14 G4 C6 - 417.825
LCS LCS-39431 - SMT



Data File: F140227B_14 G4 C11 - 435.8169
LCS LCS-39431 - SMT



Data File: F140227B_14 G4 C7 - 419.822
LCS LCS-39431 - SMT



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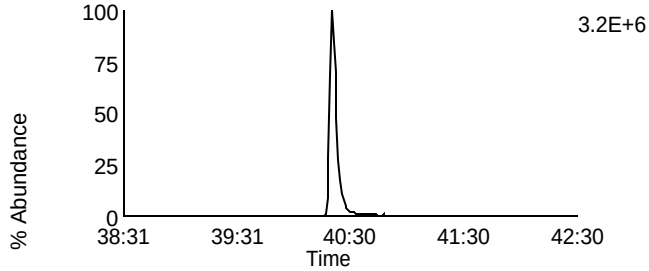
LCS LCS-39431 - SMT



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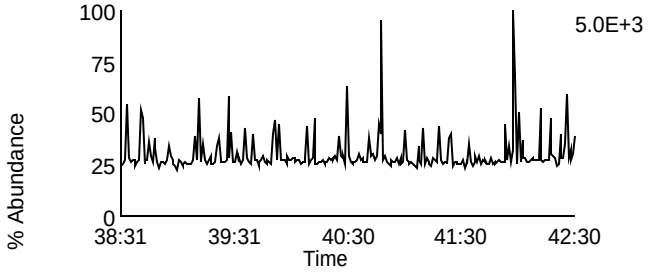
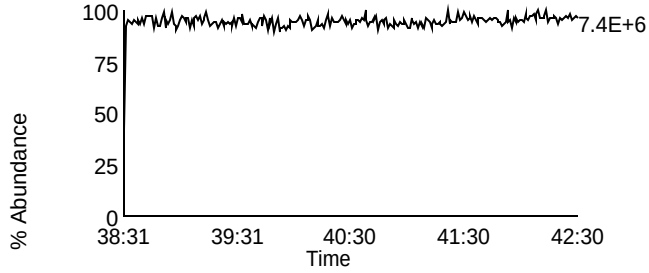
LCS LCS-39431 - SMT



Data File: F140227B_14 G4 C1 - 380.976
LCS LCS-39431 - SMT

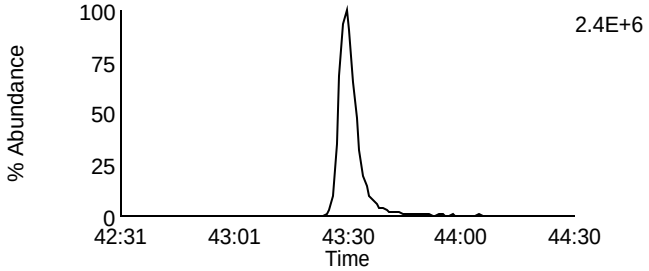


Homologue Group: Octas

Data File Name: F140227B_14
Date Acquired: 2/27/2014
Sample Description: LCS LCS-39431 - SMT

Lab Sample ID: LCS-39431
Client Sample ID: DLCSPX
Instrument: 10MSHR05 (F)

Data File: F140227B_14 G5 C4 - 441.7428
LCS LCS-39431 - SMT



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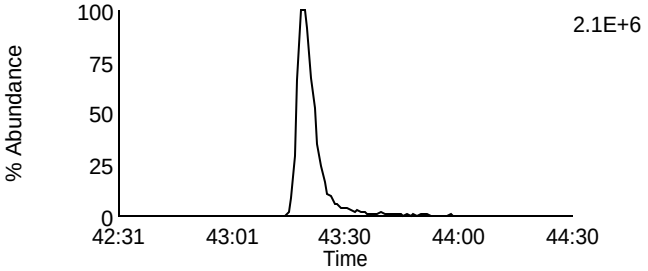
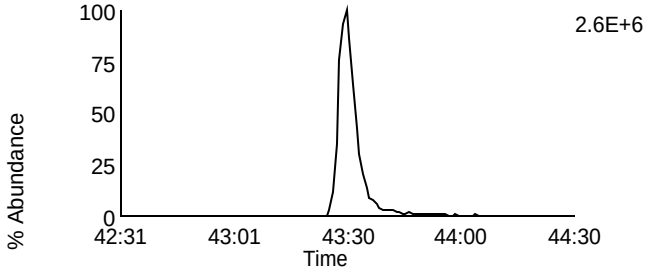
LCS LCS-39431 - SMT



Data File: F140227B_14 G5 C5 - 443.7398
LCS LCS-39431 - SMT



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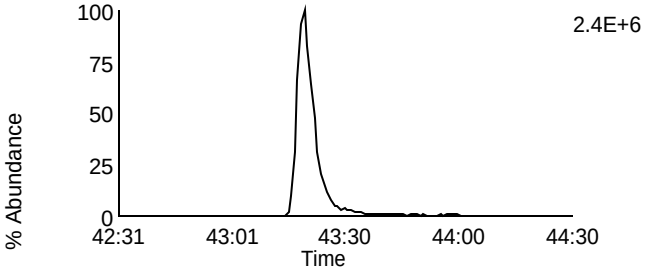
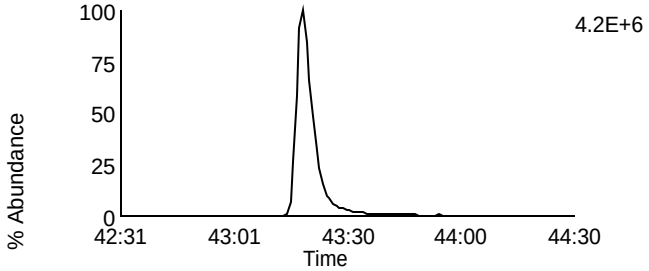
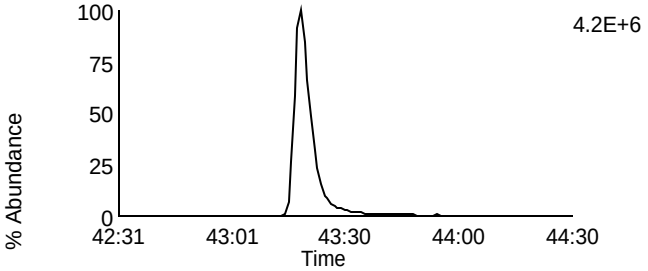
LCS LCS-39431 - SMT



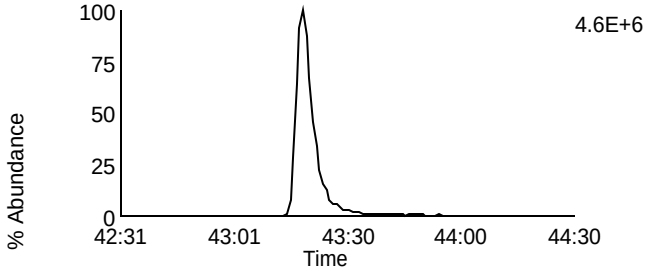
Data File: F140227B_14 G5 C11 - 469.7779
LCS LCS-39431 - SMT



Data File: F140227B_14 G5 C11 - 469.7779
LCS LCS-39431 - SMT



Data File: F140227B_14 G5 C12 - 471.7749
LCS LCS-39431 - SMT



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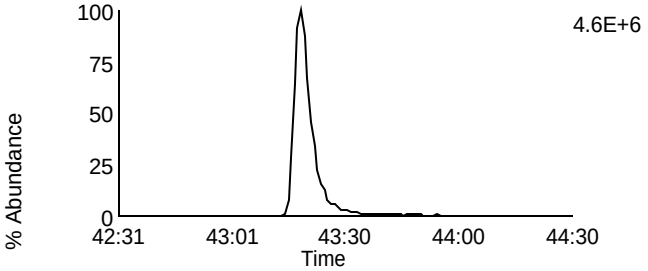
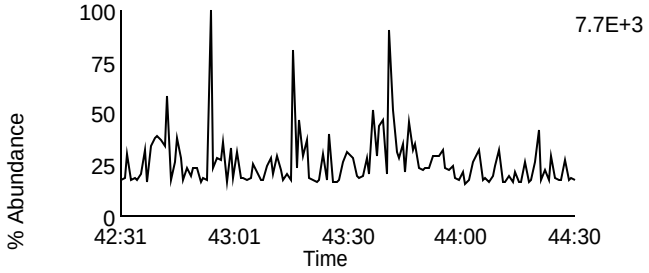
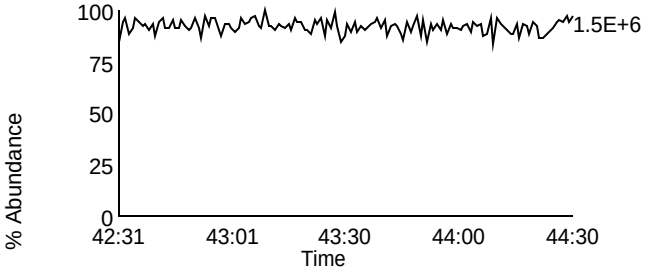
LCS LCS-39431 - SMT



Data File: F140227B_14 G5 C13 - 513.6775
LCS LCS-39431 - SMT



Data File: F140227B_14 G5 C2 - 430.9728
LCS LCS-39431 - SMT

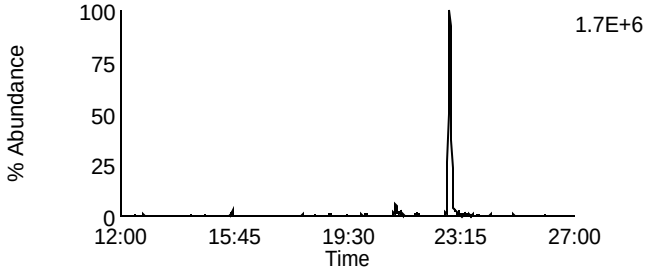


Homologue Group: Tetras

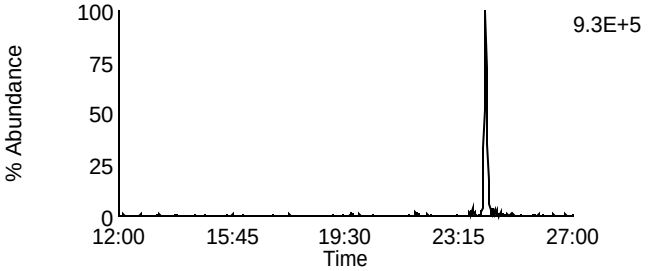
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

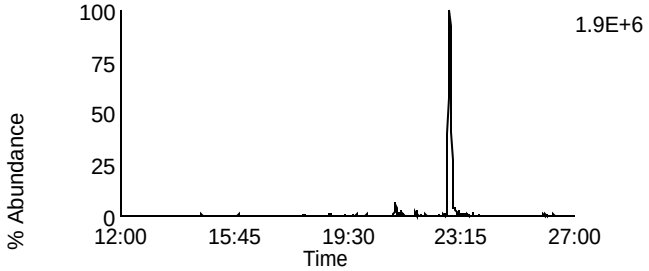
Data File: U140307A_02 G1 C1 - 303.9016
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C7 - 319.8965
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C2 - 305.8987
LCS LCS-39501 - SMT



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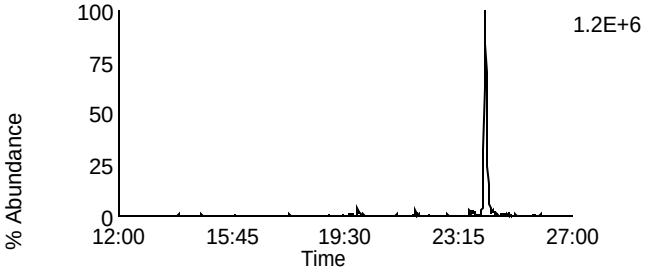
LCS LCS-39501 - SMT



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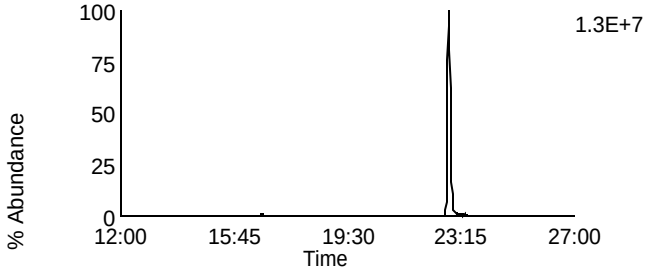
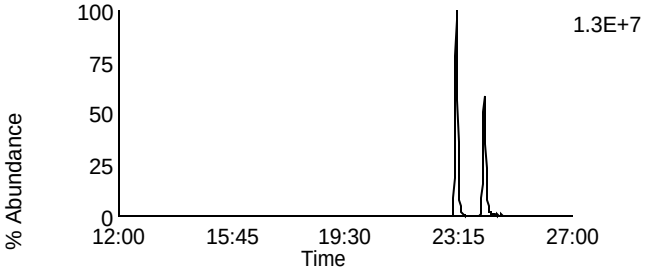
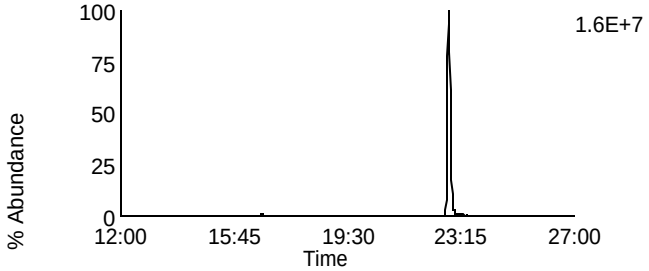
LCS LCS-39501 - SMT



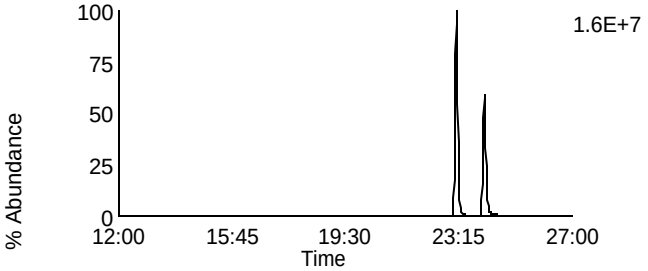
Data File: U140307A_02 G1 C10 - 331.9367
LCS LCS-39501 - SMT



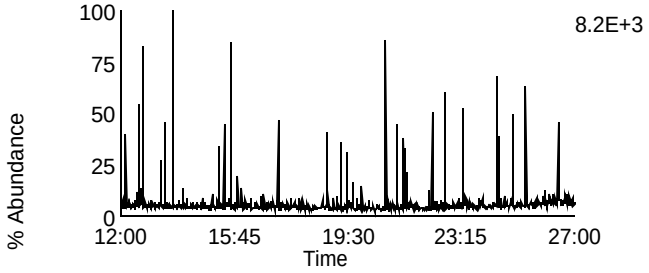
Data File: U140307A_02 G1 C4 - 317.9389
LCS LCS-39501 - SMT



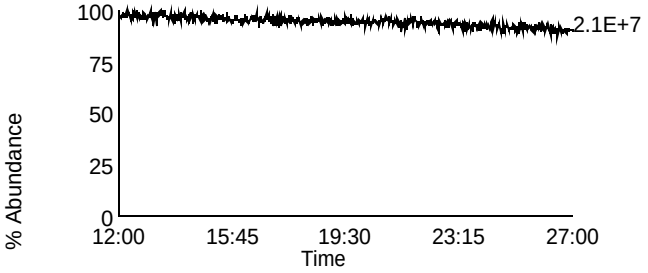
Data File: U140307A_02 G1 C11 - 333.9338
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C14 - 375.8364
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C5 - 318.9792
LCS LCS-39501 - SMT

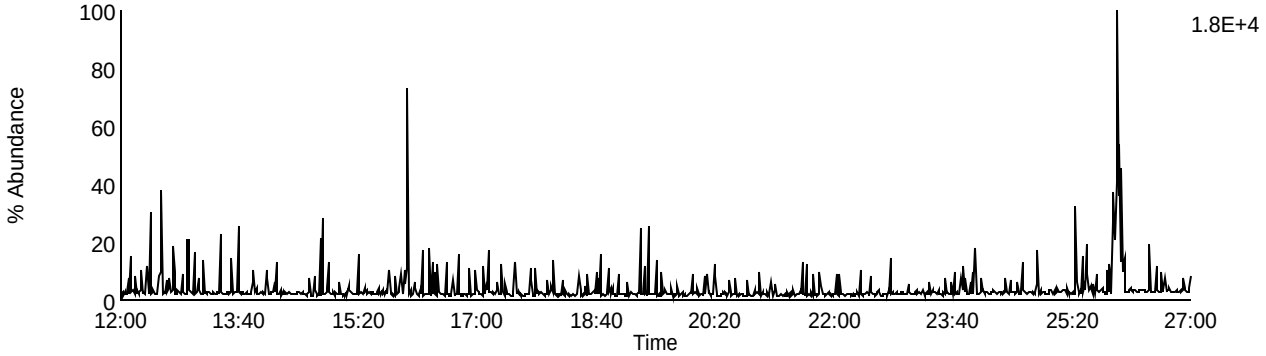


Homologue Group: Penta & Cleanup

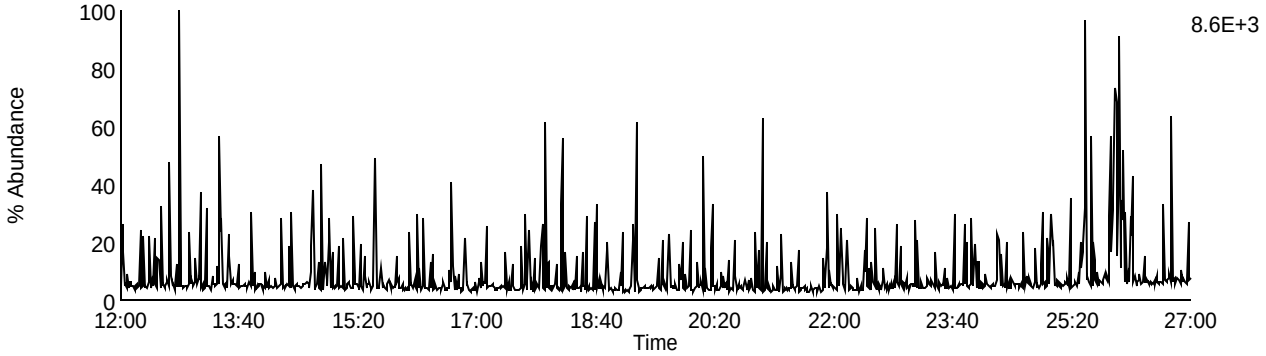
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

Data File: U140307A_02 G1 C12 - 339.8597
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C13 - 341.8567
LCS LCS-39501 - SMT



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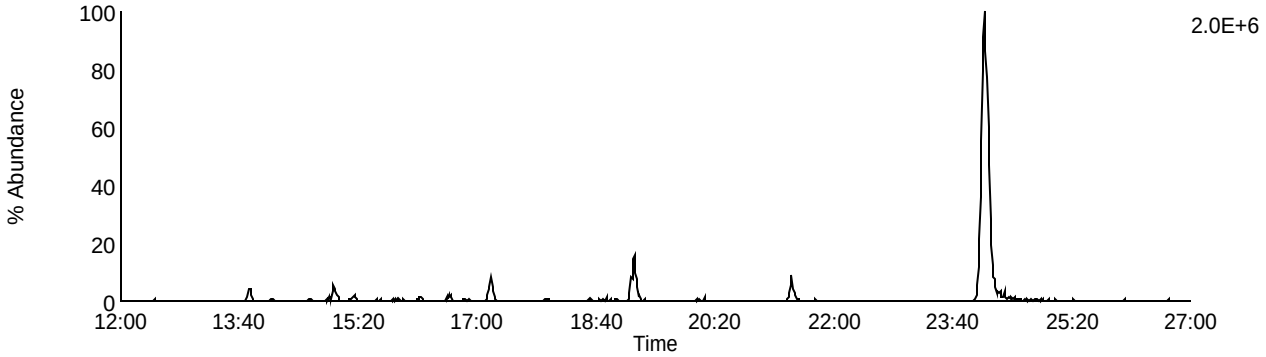
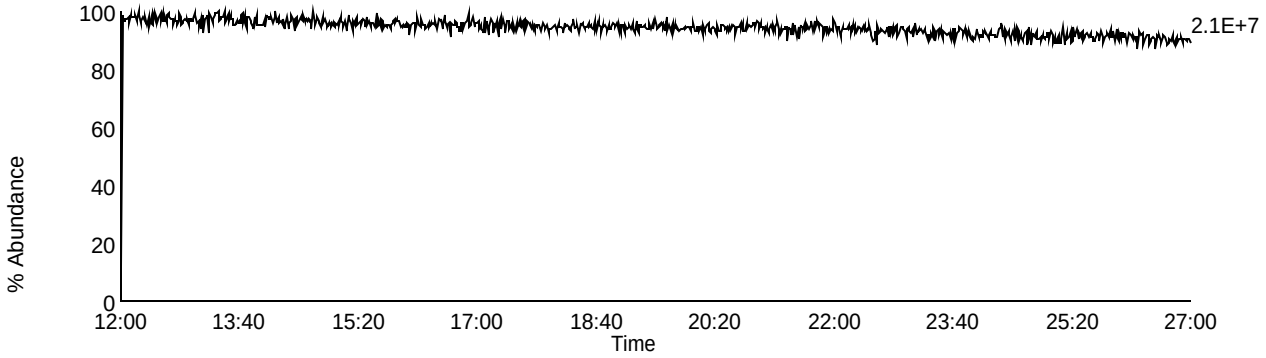
LCS LCS-39501 - SMT



Data File: U140307A_02 G1 C5 - 318.9792
LCS LCS-39501 - SMT

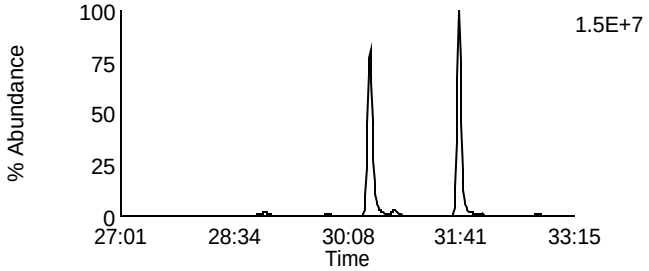


Homologue Group: Pentas

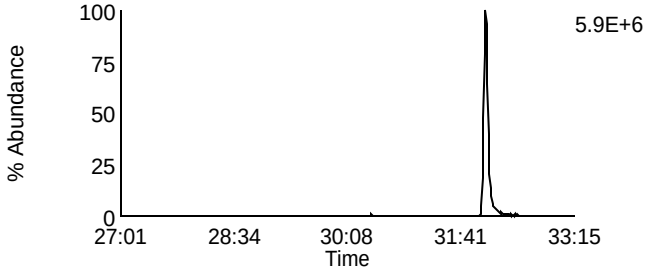
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

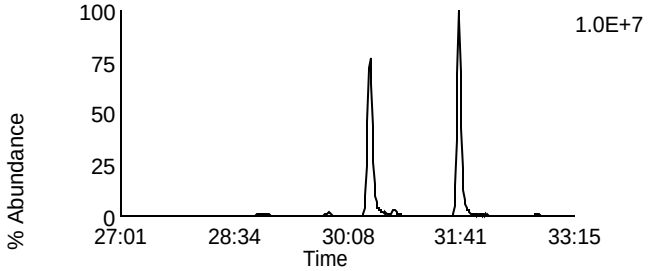
Data File: U140307A_02 G2 C1 - 339.8597
LCS LCS-39501 - SMT



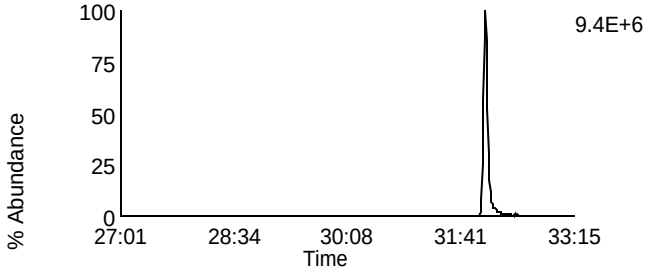
Data File: U140307A_02 G2 C4 - 353.8576
LCS LCS-39501 - SMT



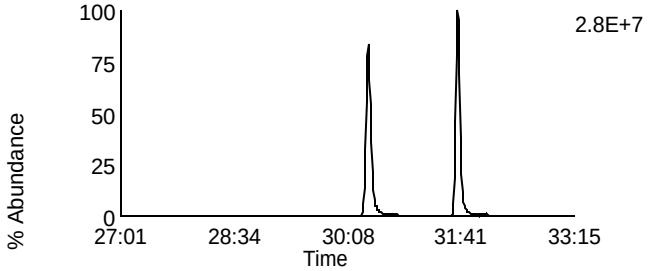
Data File: U140307A_02 G2 C2 - 341.8567
LCS LCS-39501 - SMT



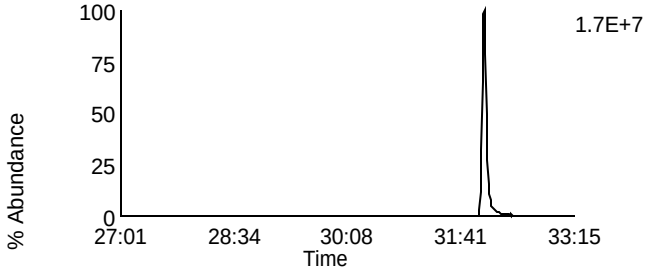
Data File: U140307A_02 G2 C8 - 355.8546
LCS LCS-39501 - SMT



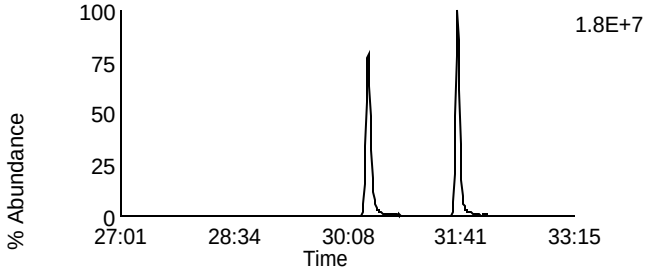
Data File: U140307A_02 G2 C3 - 351.8999
LCS LCS-39501 - SMT



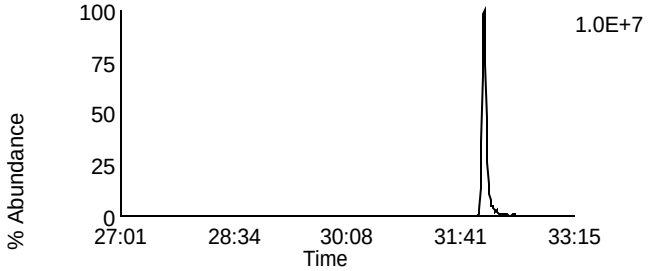
Data File: U140307A_02 G2 C10 - 367.8948
LCS LCS-39501 - SMT



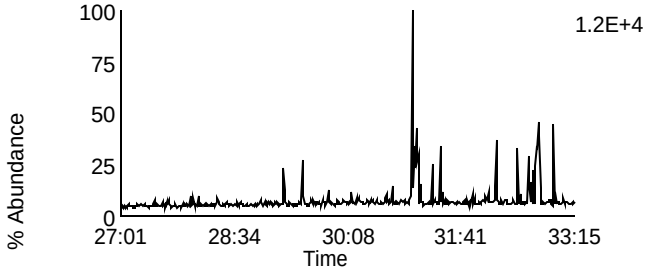
Data File: U140307A_02 G2 C5 - 353.8969
LCS LCS-39501 - SMT



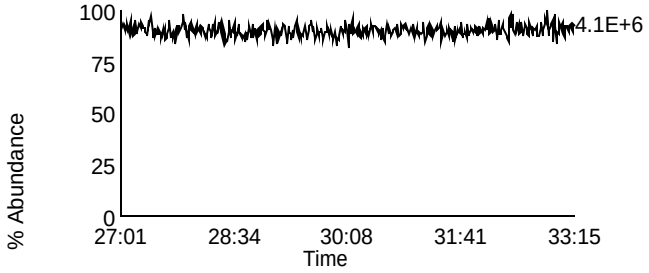
Data File: U140307A_02 G2 C11 - 369.8918
LCS LCS-39501 - SMT



Data File: U140307A_02 G2 C12 - 409.7974
LCS LCS-39501 - SMT



Data File: U140307A_02 G2 C6 - 354.9792
LCS LCS-39501 - SMT

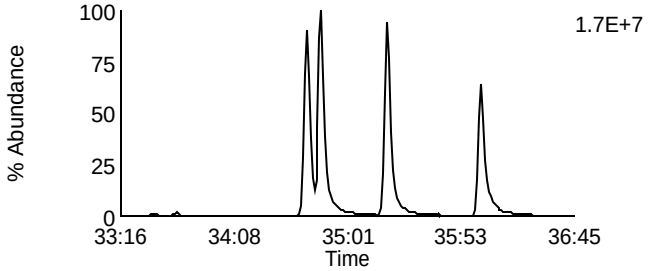


Homologue Group: Hexas

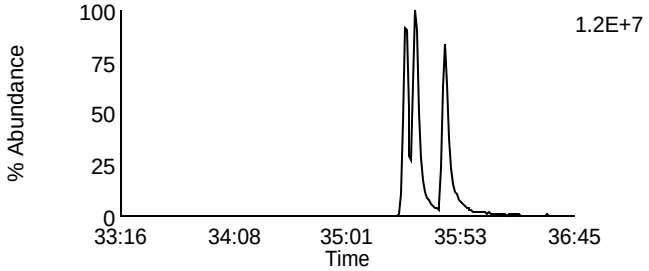
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

Data File: U140307A_02 G3 C1 - 373.8207
LCS LCS-39501 - SMT



Data File: U140307A_02 G3 C7 - 389.8156
LCS LCS-39501 - SMT



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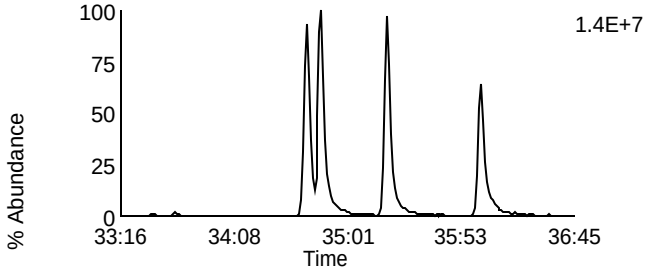
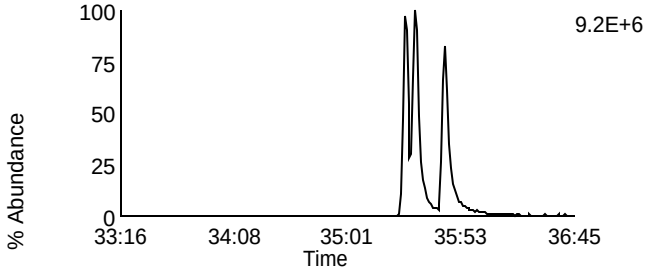
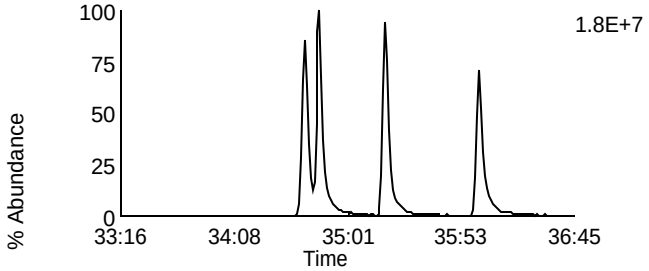
LCS LCS-39501 - SMT



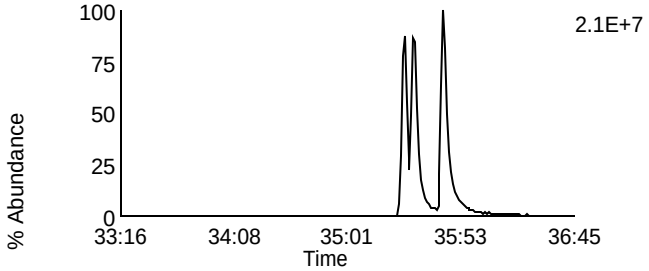
Data File: U140307A_02 G3 C8 - 391.8127
LCS LCS-39501 - SMT



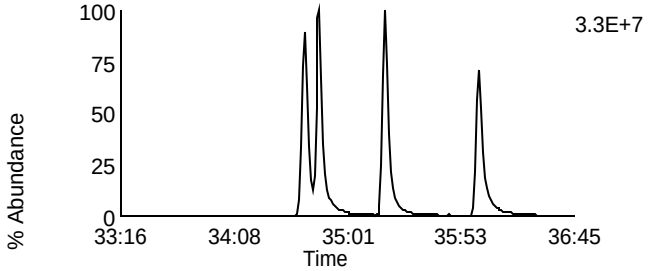
Data File: U140307A_02 G3 C5 - 383.8639
LCS LCS-39501 - SMT



Data File: U140307A_02 G3 C9 - 401.8559
LCS LCS-39501 - SMT



Data File: U140307A_02 G3 C6 - 385.861
LCS LCS-39501 - SMT



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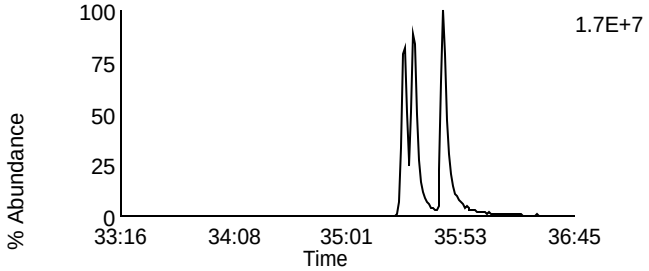
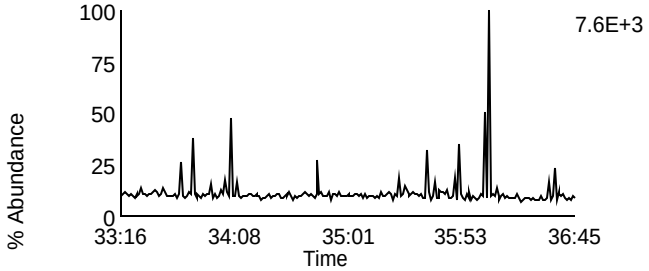
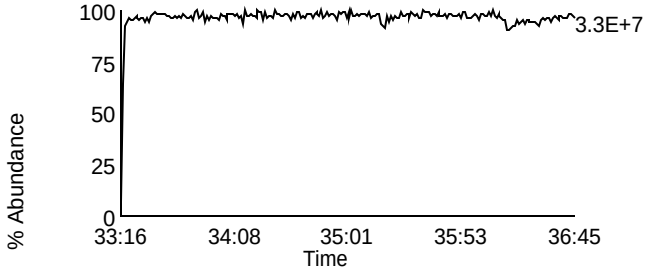
LCS LCS-39501 - SMT



Data File: U140307A_02 G3 C11 - 445.7555
LCS LCS-39501 - SMT



Data File: U140307A_02 G3 C3 - 380.976
LCS LCS-39501 - SMT

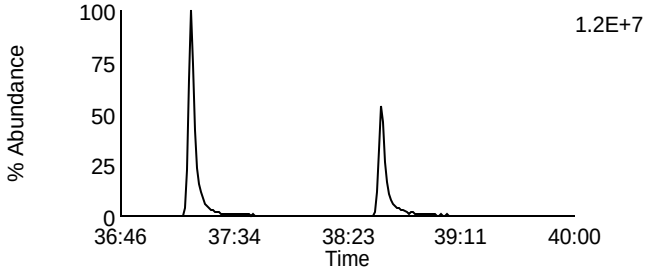


Homologue Group: Heptas

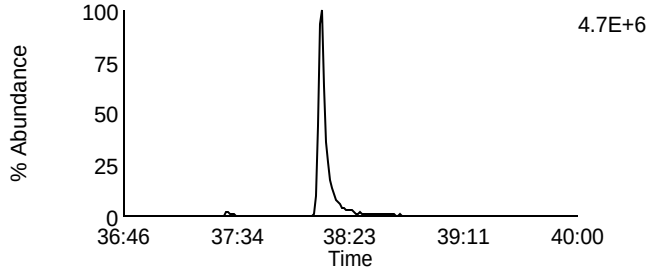
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

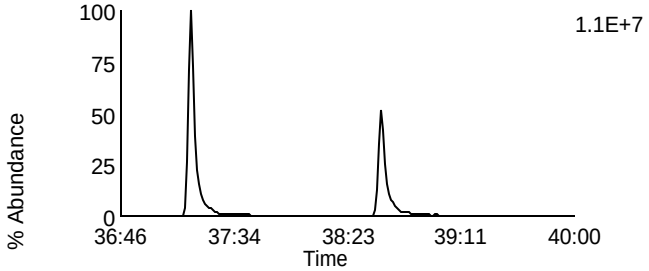
Data File: U140307A_02 G4 C3 - 407.7818
LCS LCS-39501 - SMT



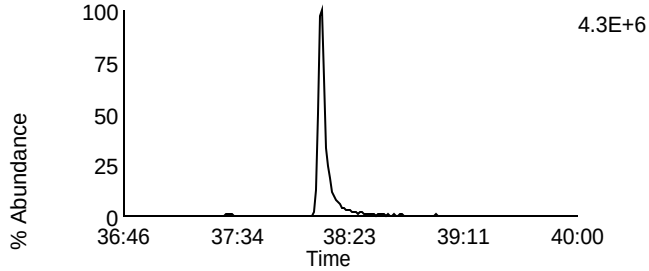
Data File: U140307A_02 G4 C8 - 423.7767
LCS LCS-39501 - SMT



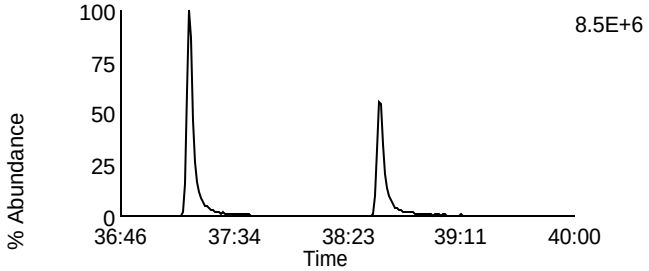
Data File: U140307A_02 G4 C4 - 409.7788
LCS LCS-39501 - SMT



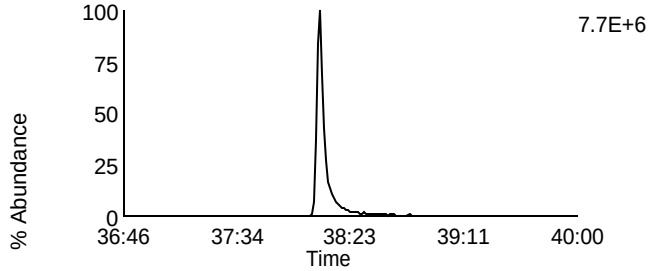
Data File: U140307A_02 G4 C9 - 425.7737
LCS LCS-39501 - SMT



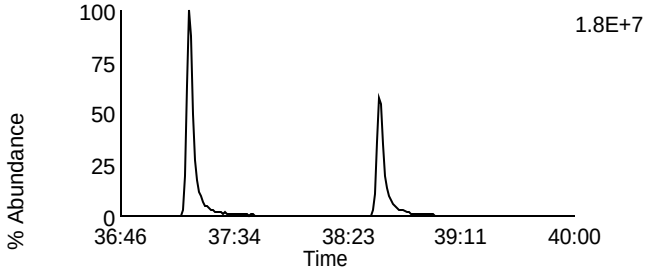
Data File: U140307A_02 G4 C6 - 417.825
LCS LCS-39501 - SMT



Data File: U140307A_02 G4 C11 - 435.8169
LCS LCS-39501 - SMT



Data File: U140307A_02 G4 C7 - 419.822
LCS LCS-39501 - SMT



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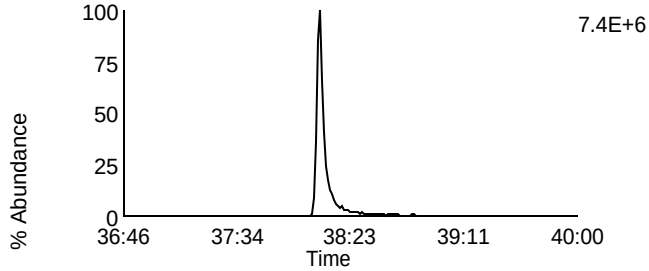
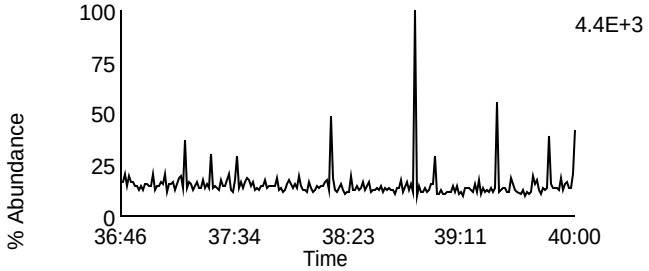
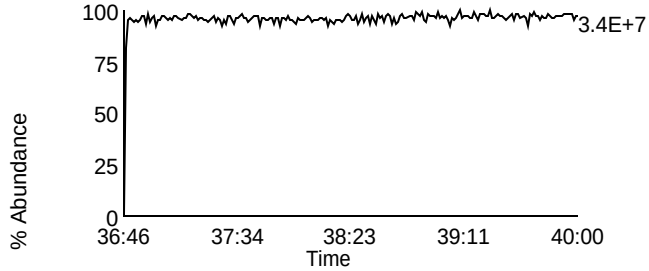
LCS LCS-39501 - SMT



Data File: U140307A_02 G4 C13 - 479.7165
LCS LCS-39501 - SMT



Data File: U140307A_02 G4 C1 - 380.976
LCS LCS-39501 - SMT

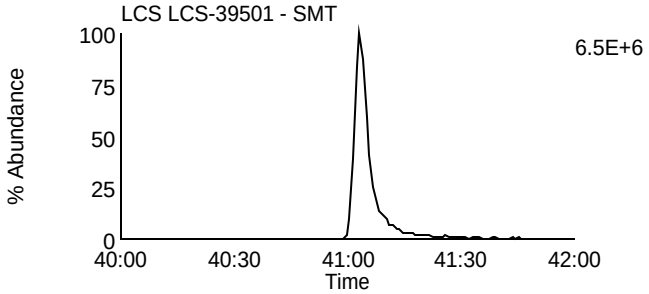


Homologue Group: Octas

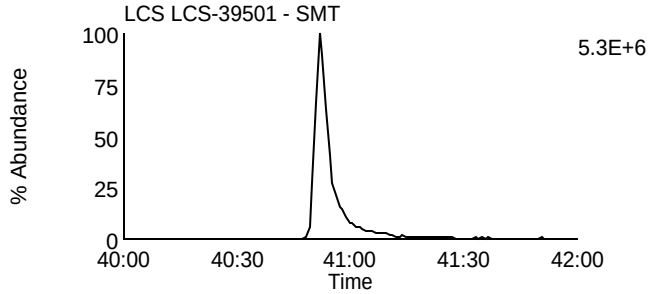
Data File Name: U140307A_02
Date Acquired: 3/7/2014
Sample Description: LCS LCS-39501 - SMT

Lab Sample ID: LCS-39501
Client Sample ID: DLCSRL
Instrument: 10MSHR06 (U)

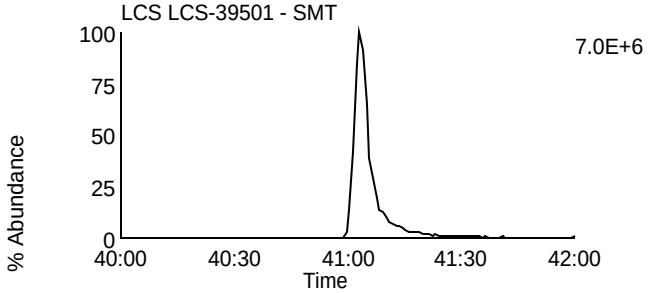
Data File: U140307A_02 G5 C4 - 441.7428
LCS LCS-39501 - SMT



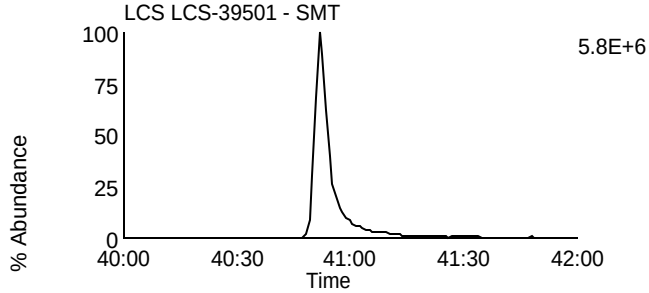
Data File: U140307A_02 G5 C8 - 457.7377
LCS LCS-39501 - SMT



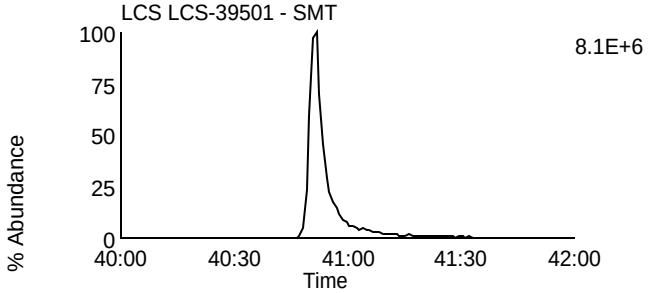
Data File: U140307A_02 G5 C5 - 443.7398
LCS LCS-39501 - SMT



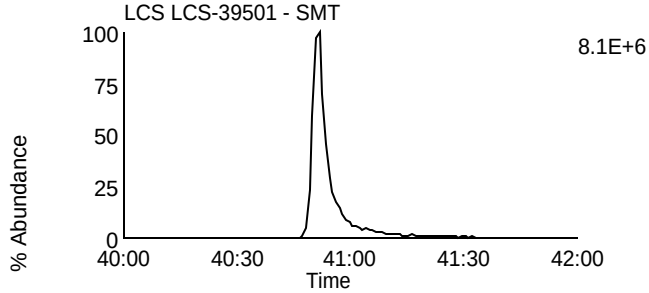
Data File: U140307A_02 G5 C9 - 459.7347
LCS LCS-39501 - SMT



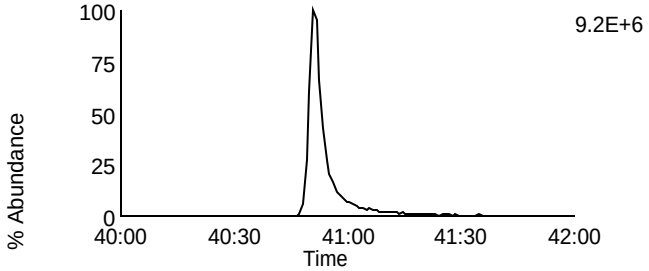
Data File: U140307A_02 G5 C11 - 469.7779
LCS LCS-39501 - SMT



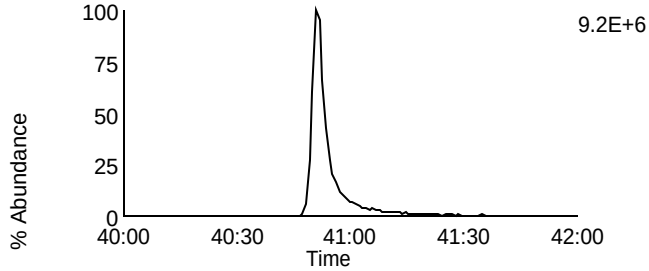
Data File: U140307A_02 G5 C11 - 469.7779
LCS LCS-39501 - SMT



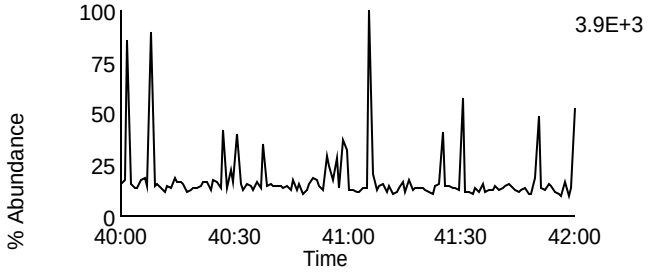
Data File: U140307A_02 G5 C12 - 471.7749
LCS LCS-39501 - SMT



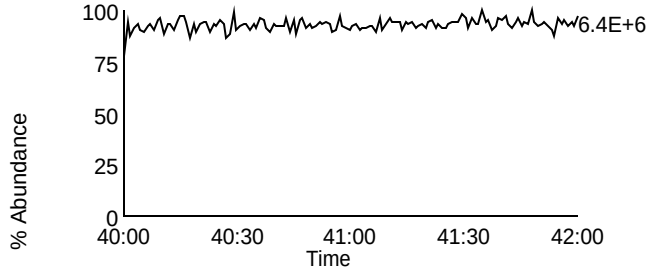
Data File: U140307A_02 G5 C12 - 471.7749
LCS LCS-39501 - SMT



Data File: U140307A_02 G5 C13 - 513.6775
LCS LCS-39501 - SMT



Data File: U140307A_02 G5 C2 - 430.9728
LCS LCS-39501 - SMT

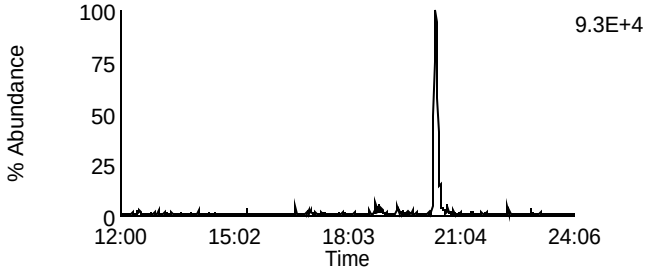


Homologue Group: Tetras

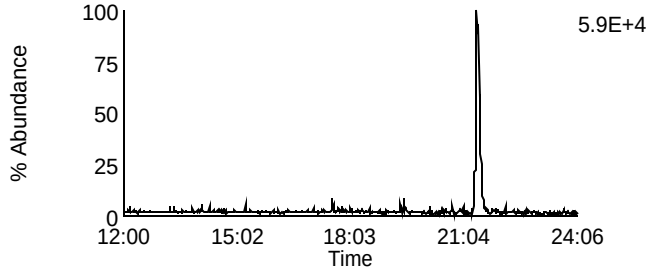
Data File Name: F140228B_02
Date Acquired: 2/28/2014
Sample Description: LCS LCS-39432 - CVS

Lab Sample ID: LCSD-39432
Client Sample ID: DLCSPY
Instrument: 10MSHR05 (F)

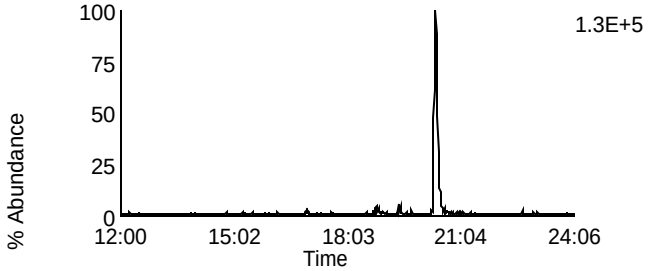
Data File: F140228B_02 G1 C1 - 303.9016
LCS LCS-39432 - CVS



Data File: F140228B_02 G1 C7 - 319.8965
LCS LCS-39432 - CVS



Data File: F140228B_02 G1 C2 - 305.8987
LCS LCS-39432 - CVS



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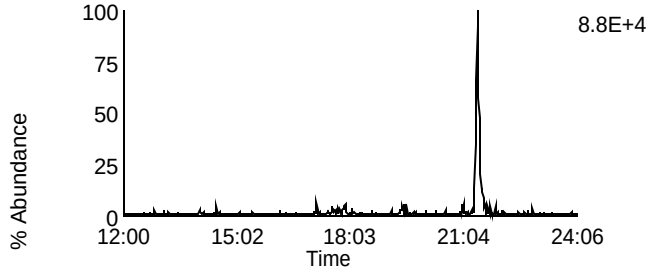
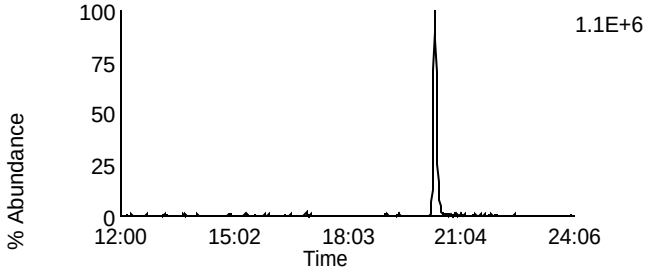
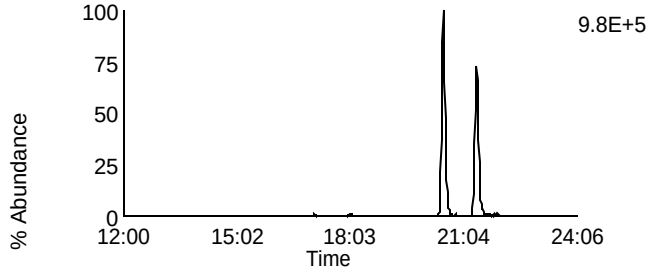
LCS LCS-39432 - CVS



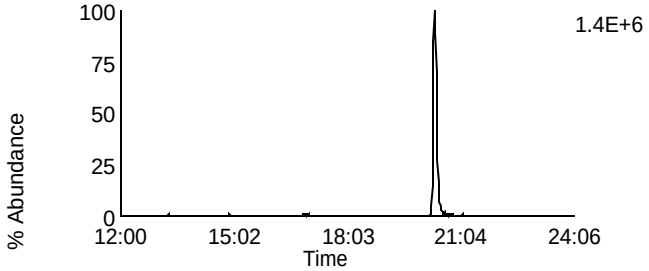
Data File: F140228B_02 G1 C3 - 315.9418
LCS LCS-39432 - CVS



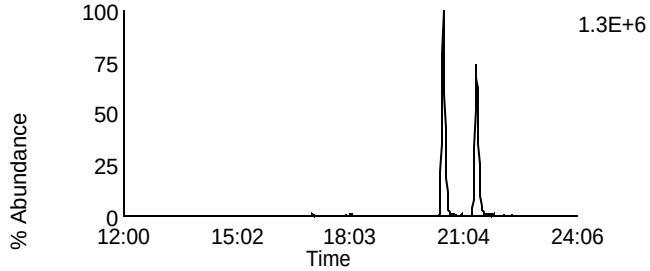
Data File: F140228B_02 G1 C10 - 331.9367
LCS LCS-39432 - CVS



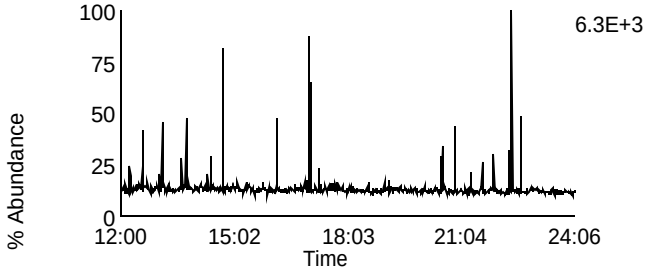
Data File: F140228B_02 G1 C4 - 317.9389
LCS LCS-39432 - CVS



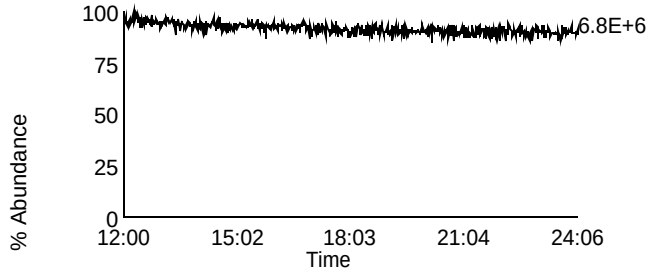
Data File: F140228B_02 G1 C11 - 333.9338
LCS LCS-39432 - CVS



Data File: F140228B_02 G1 C14 - 375.8364
LCS LCS-39432 - CVS



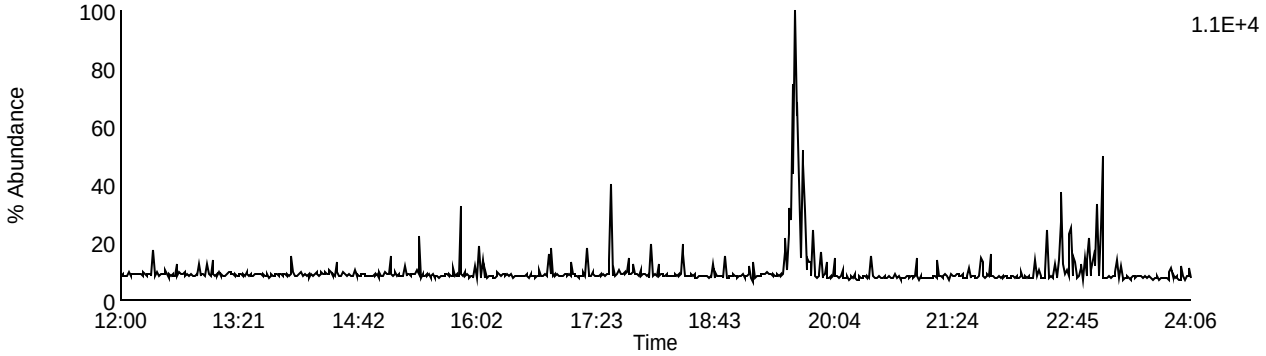
Data File: F140228B_02 G1 C5 - 318.9792
LCS LCS-39432 - CVS



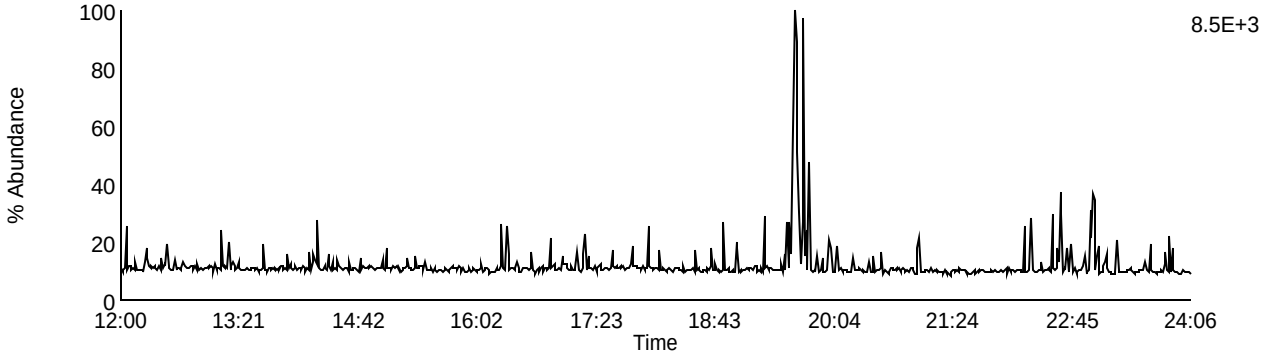
Homologue Group: Penta & Cleanup

Data File Name: F140228B_02	Lab Sample ID: LCSD-39432
Date Acquired: 2/28/2014	Client Sample ID: DLCSPY
Sample Description: LCS LCS-39432 - CVS	Instrument: 10MSHR05 (F)

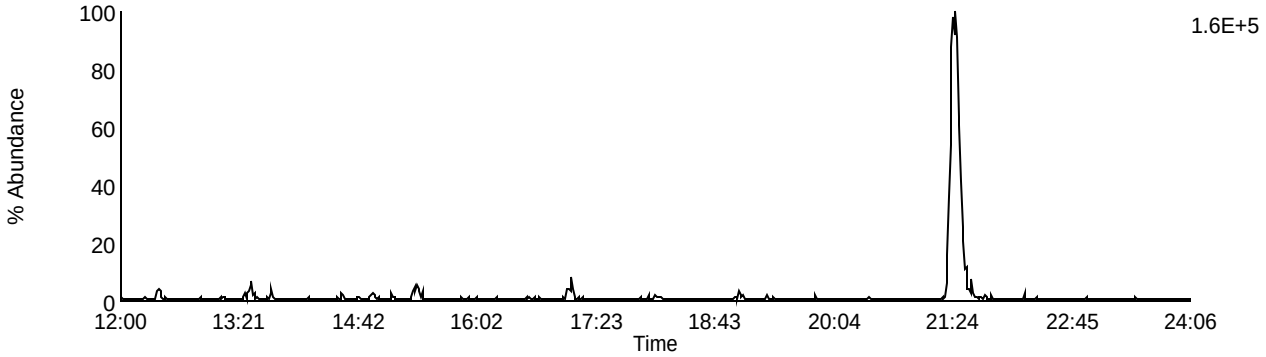
Data File: F140228B_02 G1 C12 - 339.8597
LCS LCS-39432 - CVS



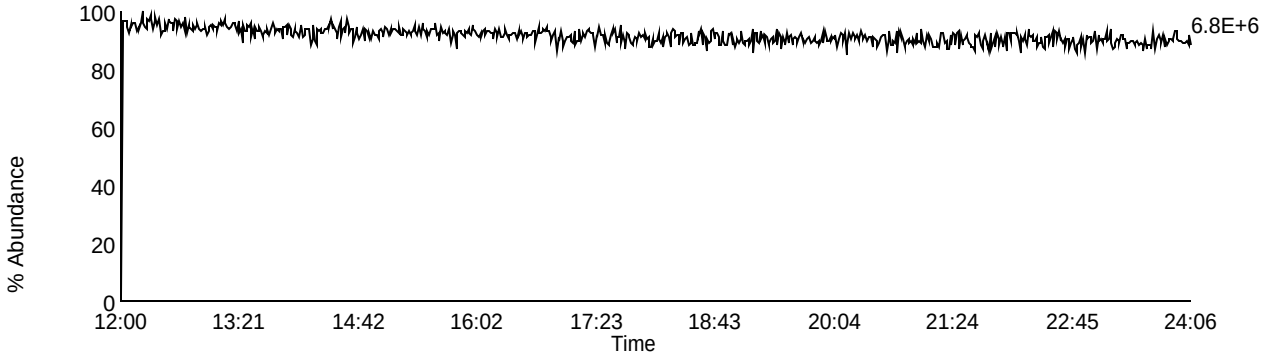
Data File: F140228B_02 G1 C13 - 341.8567
LCS LCS-39432 - CVS



Data File: F140228B_02 G1 C9 - 327.8847
LCS LCS-39432 - CVS



Data File: F140228B_02 G1 C5 - 318.9792
LCS LCS-39432 - CVS

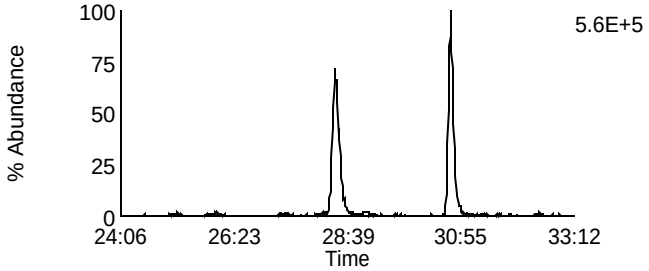


Homologue Group: Pentas

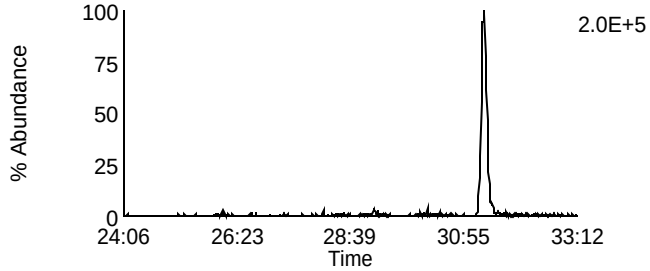
Data File Name: F140228B_02
Date Acquired: 2/28/2014
Sample Description: LCS LCS-39432 - CVS

Lab Sample ID: LCSD-39432
Client Sample ID: DLCSPY
Instrument: 10MSHR05 (F)

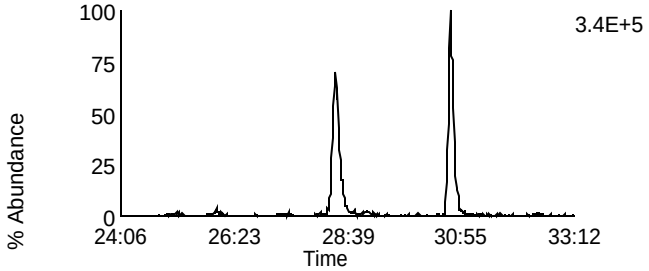
Data File: F140228B_02 G2 C1 - 339.8597
LCS LCS-39432 - CVS



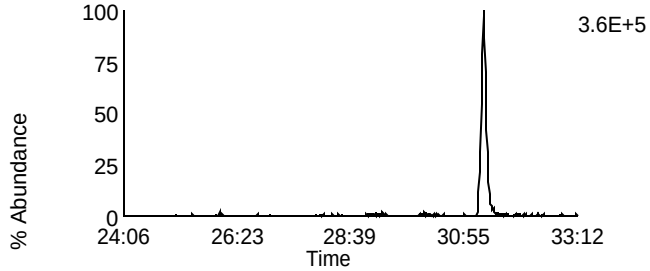
Data File: F140228B_02 G2 C4 - 353.8576
LCS LCS-39432 - CVS



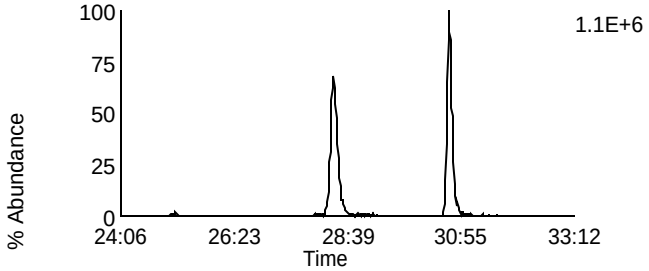
Data File: F140228B_02 G2 C2 - 341.8567
LCS LCS-39432 - CVS



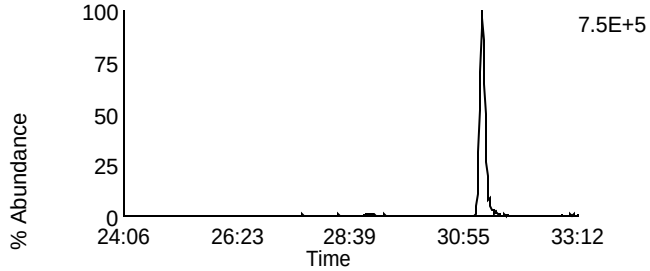
Data File: F140228B_02 G2 C8 - 355.8546
LCS LCS-39432 - CVS



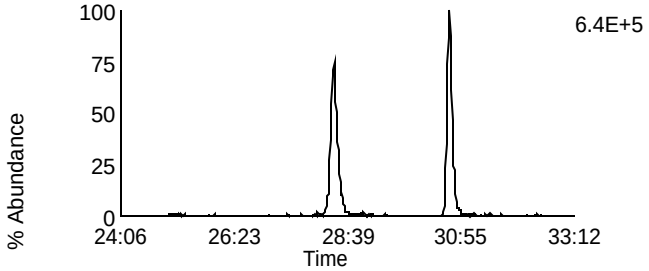
Data File: F140228B_02 G2 C3 - 351.8999
LCS LCS-39432 - CVS



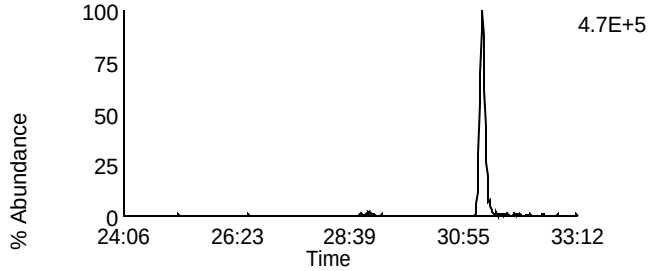
Data File: F140228B_02 G2 C10 - 367.8948
LCS LCS-39432 - CVS



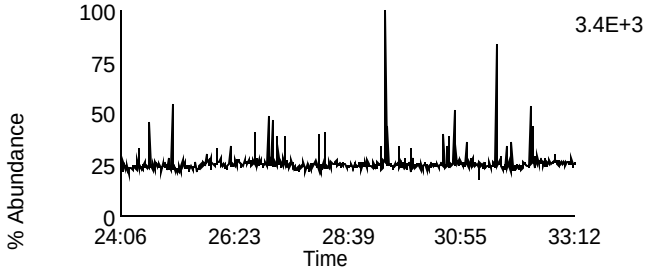
Data File: F140228B_02 G2 C5 - 353.8969
LCS LCS-39432 - CVS



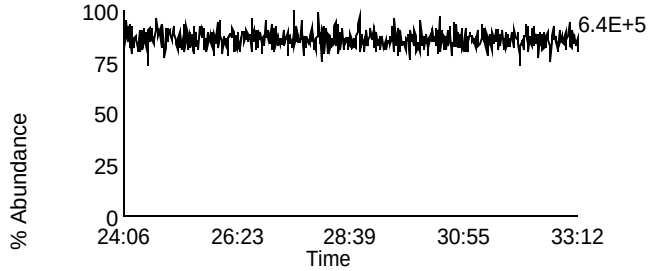
Data File: F140228B_02 G2 C11 - 369.8918
LCS LCS-39432 - CVS



Data File: F140228B_02 G2 C12 - 409.7974
LCS LCS-39432 - CVS



Data File: F140228B_02 G2 C6 - 354.9792
LCS LCS-39432 - CVS

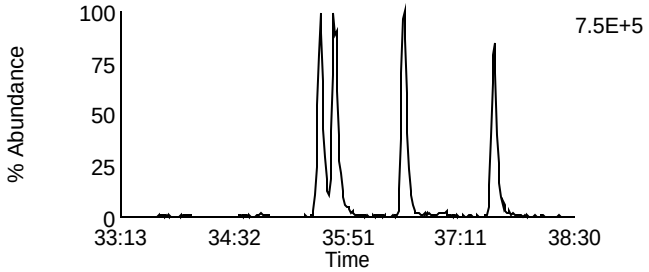


Homologue Group: Hexas

Data File Name: F140228B_02
Date Acquired: 2/28/2014
Sample Description: LCS LCS-39432 - CVS

Lab Sample ID: LCSD-39432
Client Sample ID: DLCSPY
Instrument: 10MSHR05 (F)

Data File: F140228B_02 G3 C1 - 373.8207
LCS LCS-39432 - CVS



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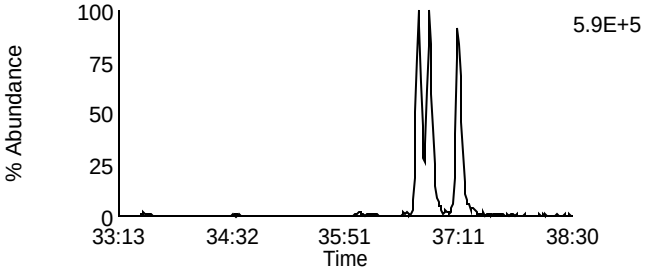
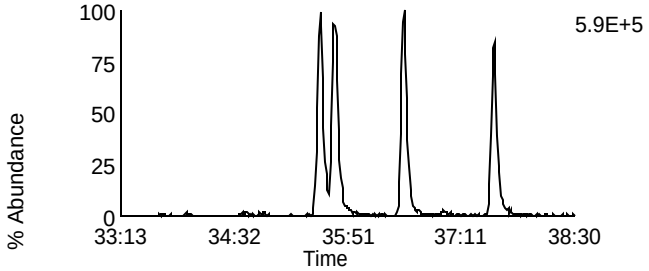
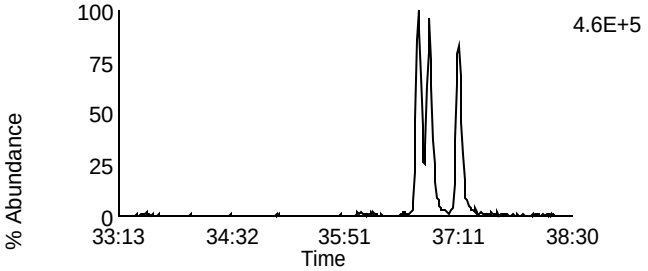
LCS LCS-39432 - CVS



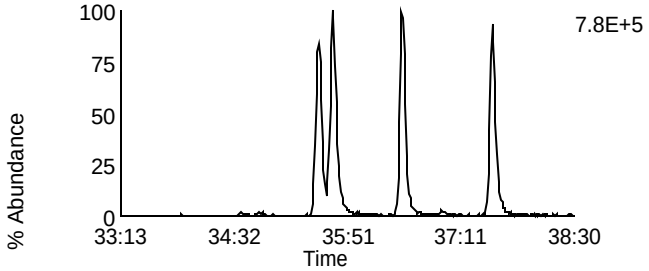
Data File: F140228B_02 G3 C2 - 375.8178
LCS LCS-39432 - CVS



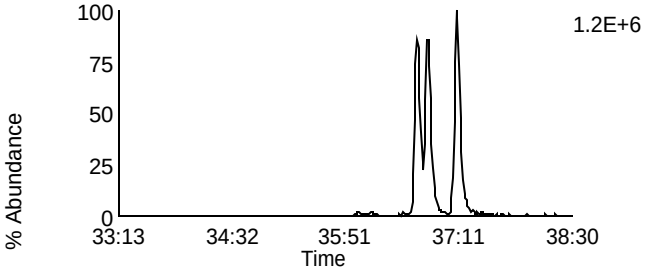
Data File: F140228B_02 G3 C8 - 391.8127
LCS LCS-39432 - CVS



Data File: F140228B_02 G3 C5 - 383.8639
LCS LCS-39432 - CVS



Data File: F140228B_02 G3 C9 - 401.8559
LCS LCS-39432 - CVS



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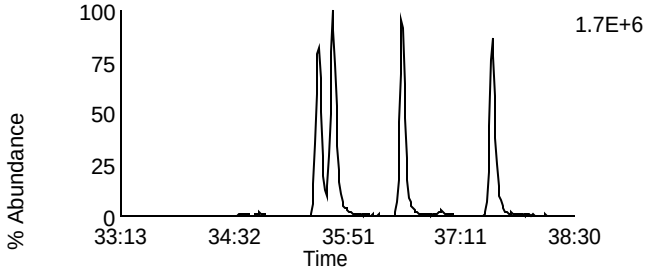
LCS LCS-39432 - CVS



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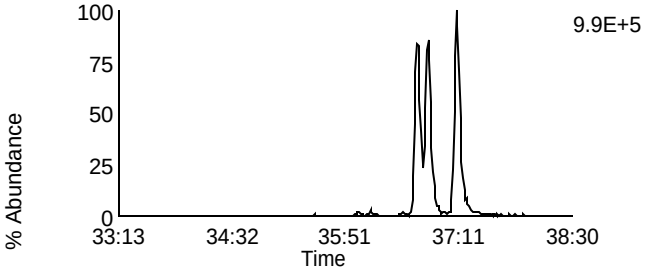
LCS LCS-39432 - CVS



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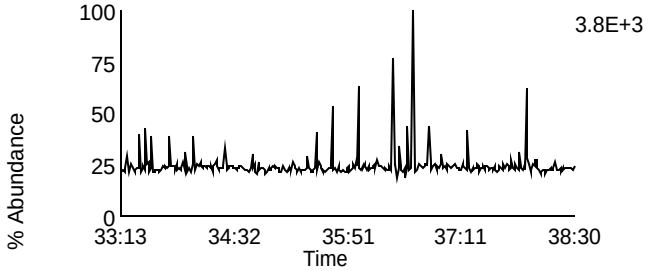
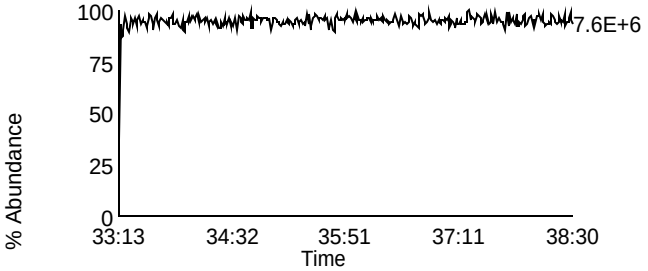
LCS LCS-39432 - CVS



Data File: F140228B_02 G3 C3 - 380.976
LCS LCS-39432 - CVS

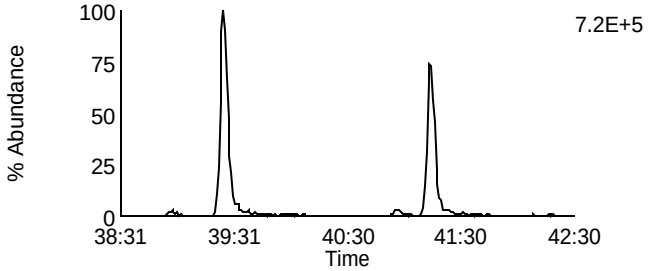


Homologue Group: Heptas

Data File Name: F140228B_02
Date Acquired: 2/28/2014
Sample Description: LCS LCS-39432 - CVS

Lab Sample ID: LCSD-39432
Client Sample ID: DLCSPY
Instrument: 10MSHR05 (F)

Data File: F140228B_02 G4 C3 - 407.7818
LCS LCS-39432 - CVS



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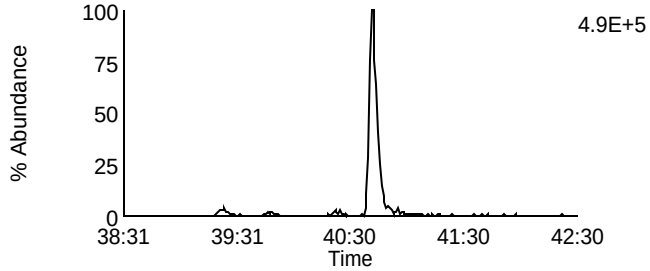
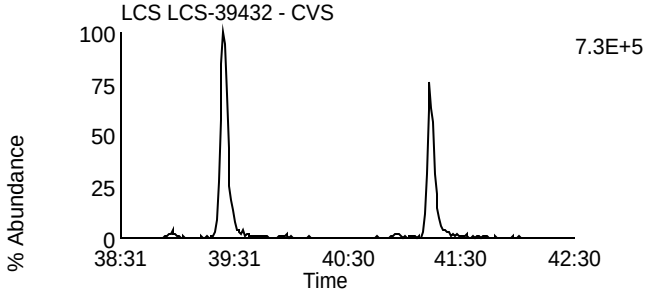
LCS LCS-39432 - CVS



Data File: F140228B_02 G4 C4 - 409.7788
LCS LCS-39432 - CVS



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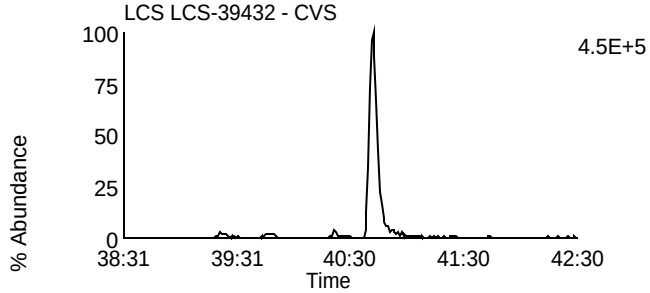
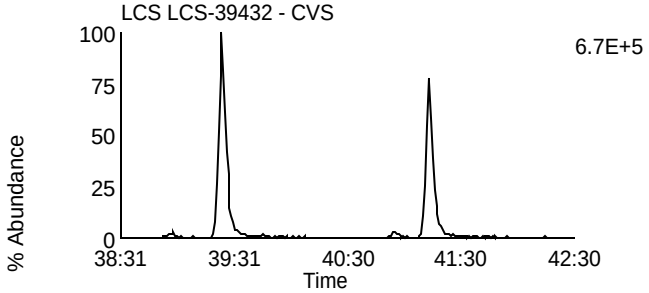
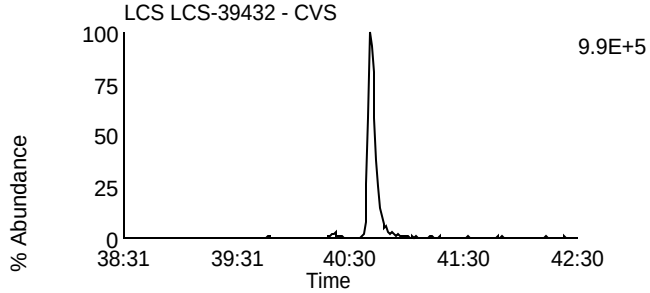
LCS LCS-39432 - CVS



Data File: F140228B_02 G4 C6 - 417.825
LCS LCS-39432 - CVS



Data File: F140228B_02 G4 C11 - 435.8169
LCS LCS-39432 - CVS



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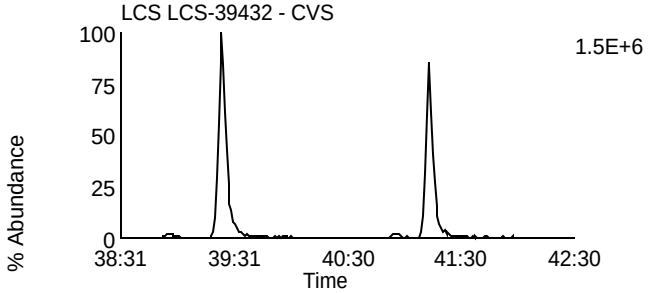
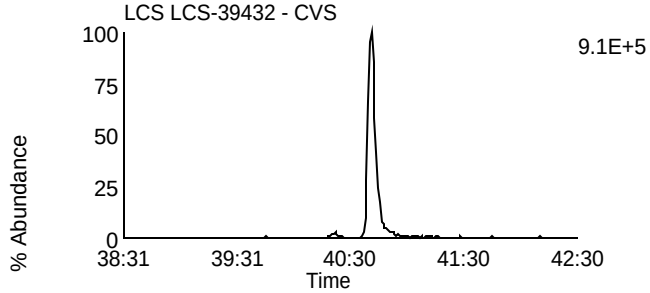
LCS LCS-39432 - CVS



Data File: F140228B_02 G4 C12 - 437.814
LCS LCS-39432 - CVS



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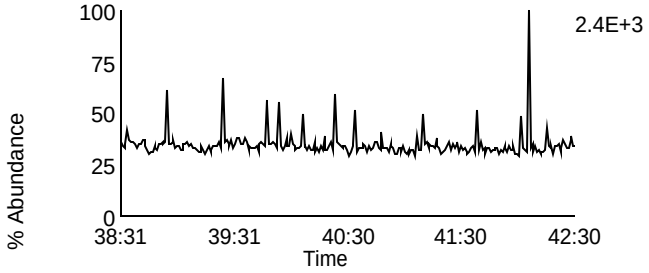
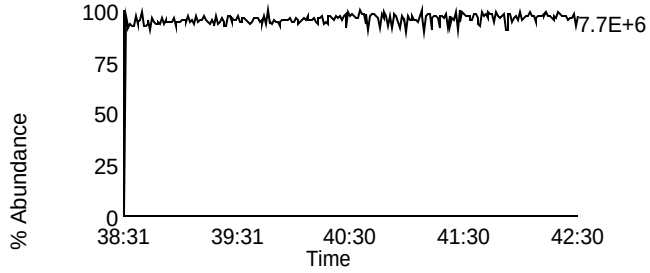
LCS LCS-39432 - CVS



Data File: F140228B_02 G4 C1 - 380.976
LCS LCS-39432 - CVS

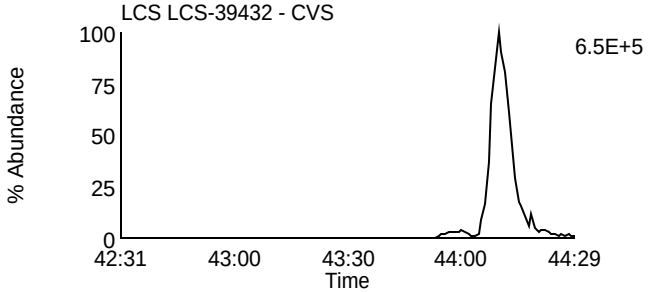


Homologue Group: Octas

Data File Name: F140228B_02
Date Acquired: 2/28/2014
Sample Description: LCS LCS-39432 - CVS

Lab Sample ID: LCSD-39432
Client Sample ID: DLCSPY
Instrument: 10MSHR05 (F)

Data File: F140228B_02 G5 C4 - 441.7428
LCS LCS-39432 - CVS



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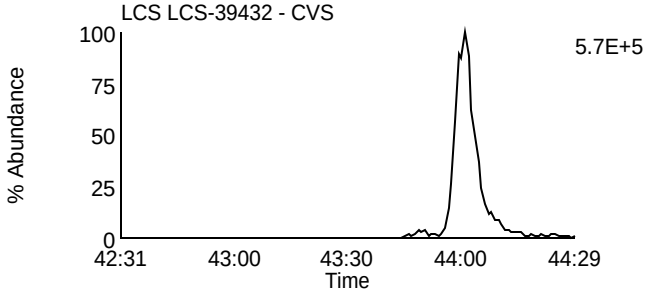
LCS LCS-39432 - CVS



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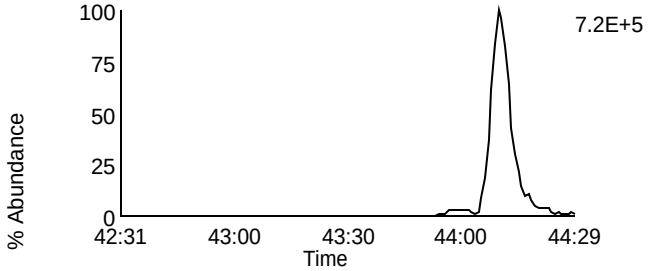
LCS LCS-39432 - CVS



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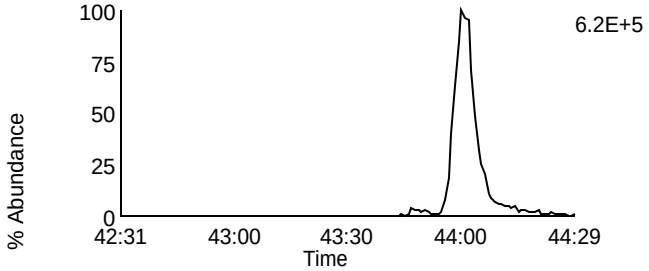
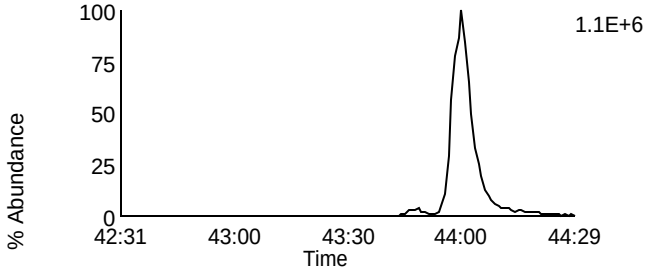
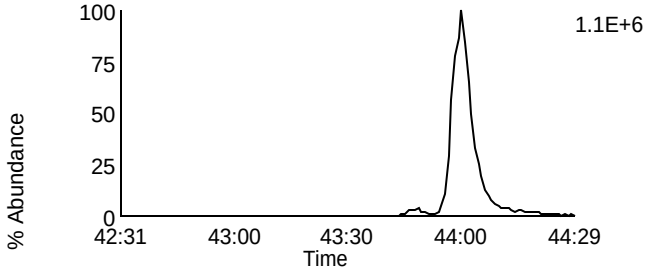
LCS LCS-39432 - CVS



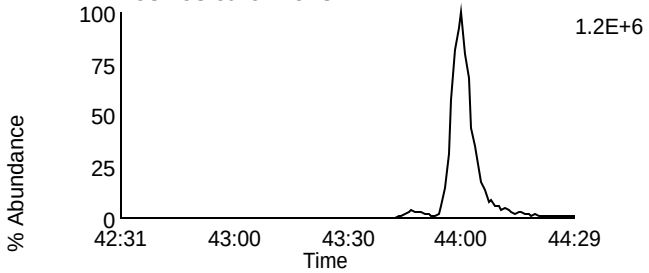
Data File: F140228B_02 G5 C11 - 469.7779
LCS LCS-39432 - CVS



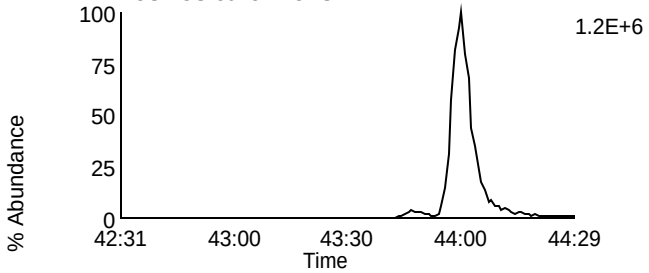
Data File: F140228B_02 G5 C11 - 469.7779
LCS LCS-39432 - CVS



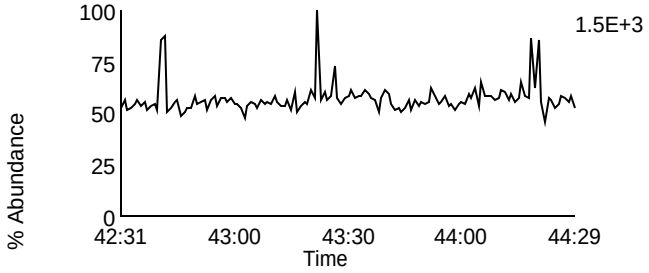
Data File: F140228B_02 G5 C12 - 471.7749
LCS LCS-39432 - CVS



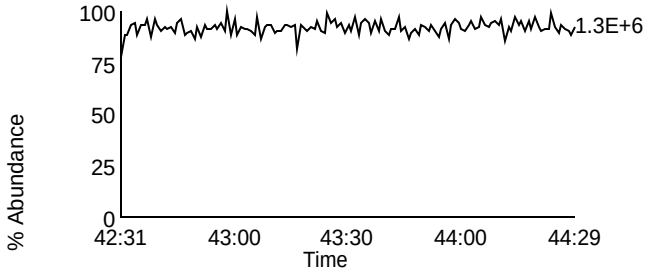
Data File: F140228B_02 G5 C12 - 471.7749
LCS LCS-39432 - CVS



Data File: F140228B_02 G5 C13 - 513.6775
LCS LCS-39432 - CVS



Data File: F140228B_02 G5 C2 - 430.9728
LCS LCS-39432 - CVS

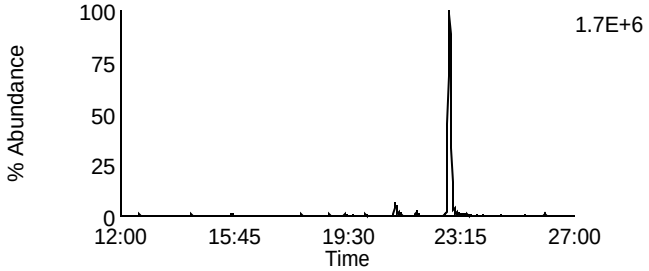


Homologue Group: Tetras

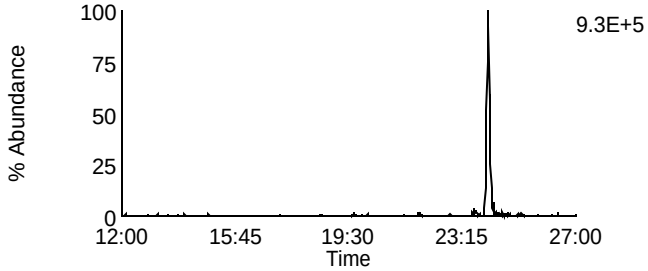
Data File Name: U140307A_03
Date Acquired: 3/7/2014
Sample Description: LCS LCSD-39502 - SMT

Lab Sample ID: LCSD-39502
Client Sample ID: DLCSRM
Instrument: 10MSHR06 (U)

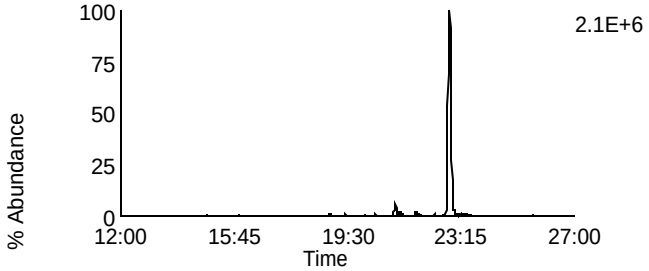
Data File: U140307A_03 G1 C1 - 303.9016
LCS LCSD-39502 - SMT



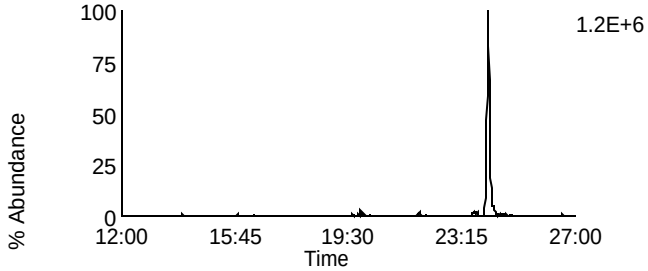
Data File: U140307A_03 G1 C7 - 319.8965
LCS LCSD-39502 - SMT



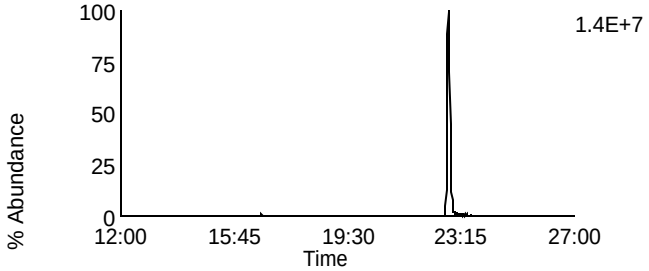
Data File: U140307A_03 G1 C2 - 305.8987
LCS LCSD-39502 - SMT



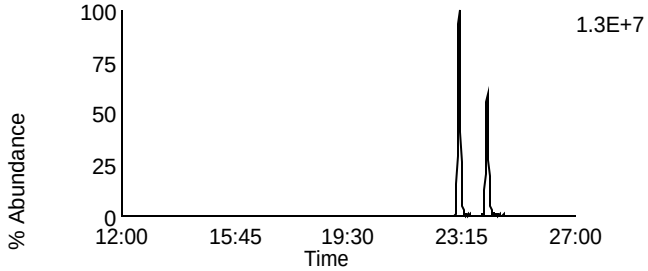
Data File: U140307A_03 G1 C8 - 321.8936
LCS LCSD-39502 - SMT



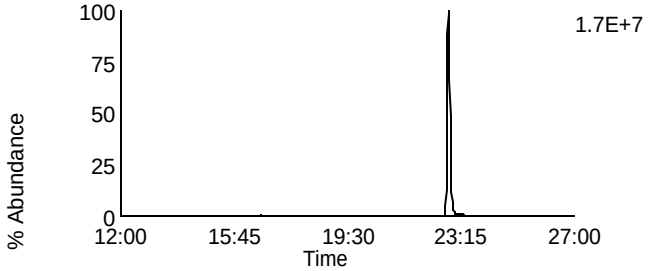
Data File: U140307A_03 G1 C3 - 315.9418
LCS LCSD-39502 - SMT



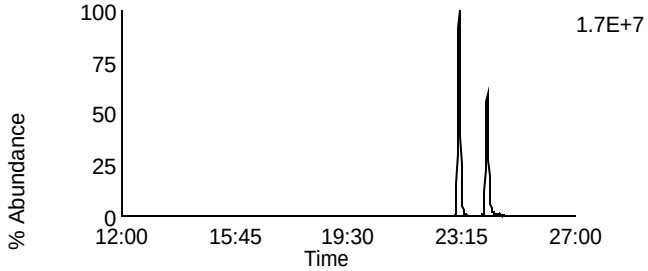
Data File: U140307A_03 G1 C10 - 331.9367
LCS LCSD-39502 - SMT



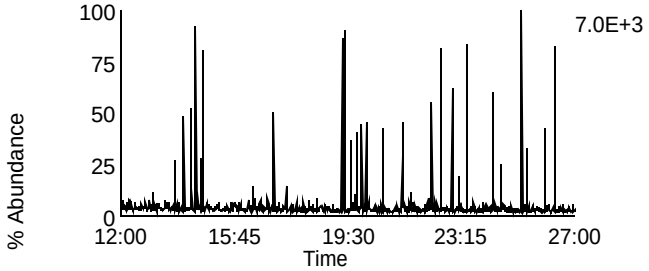
Data File: U140307A_03 G1 C4 - 317.9389
LCS LCSD-39502 - SMT



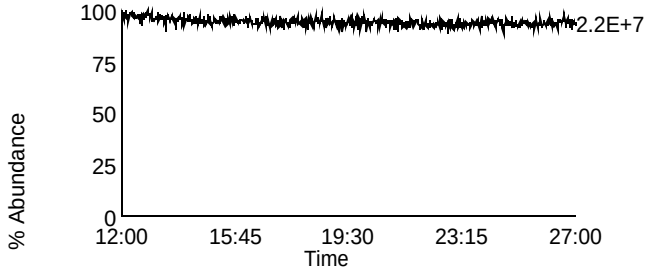
Data File: U140307A_03 G1 C11 - 333.9338
LCS LCSD-39502 - SMT



Data File: U140307A_03 G1 C14 - 375.8364
LCS LCSD-39502 - SMT

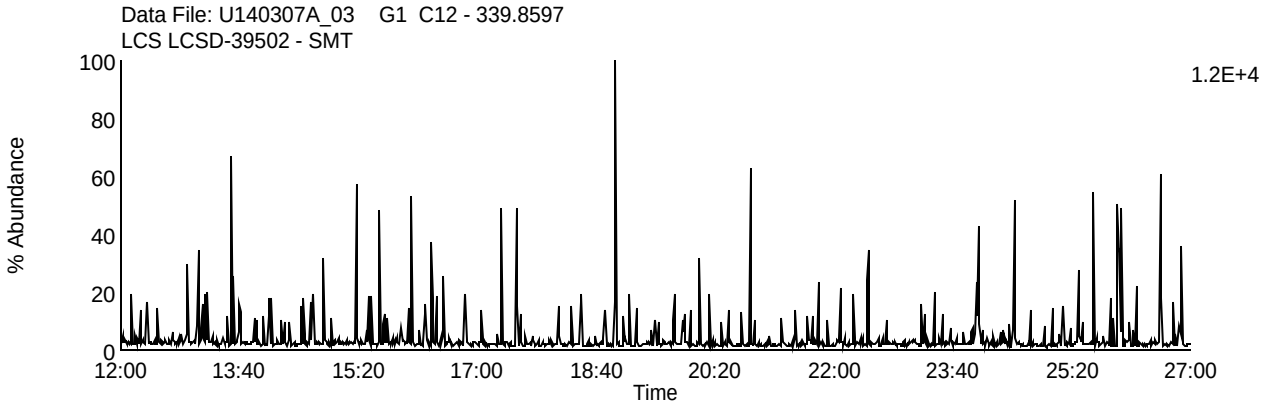


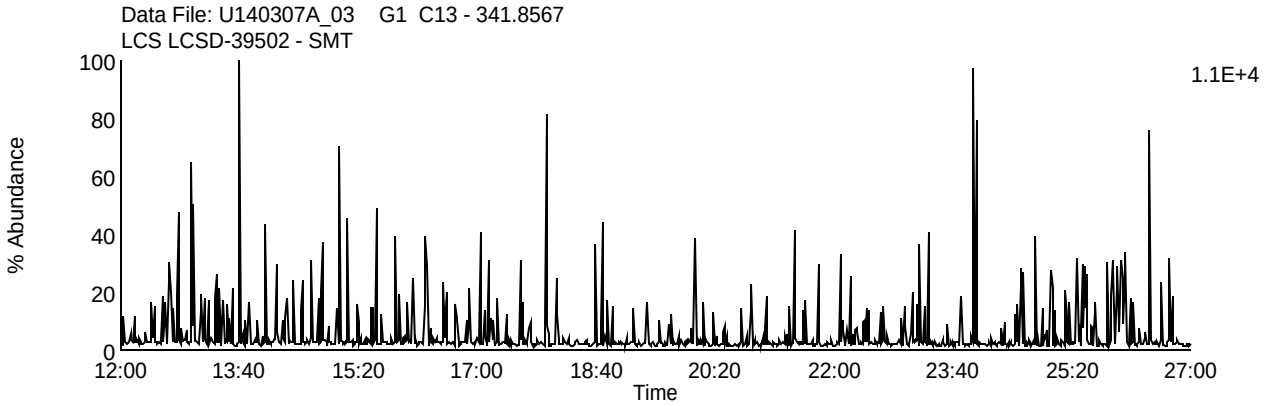
Data File: U140307A_03 G1 C5 - 318.9792
LCS LCSD-39502 - SMT

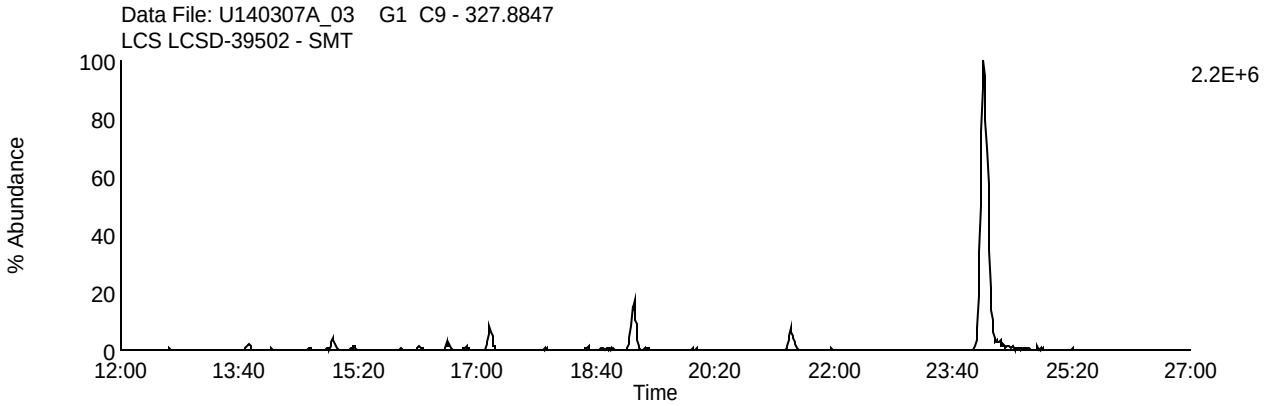


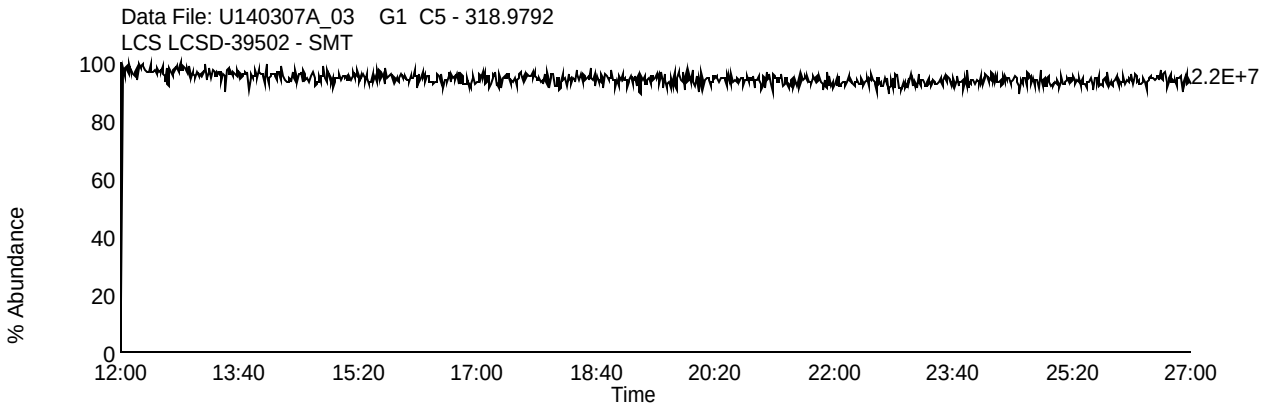
Homologue Group: Penta & Cleanup

Data File Name: U140307A_03	Lab Sample ID: LCSD-39502
Date Acquired: 3/7/2014	Client Sample ID: DLCSRM
Sample Description: LCS LCSD-39502 - SMT	Instrument: 10MSHR06 (U)







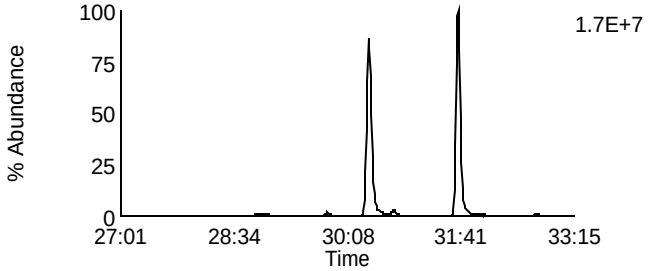


Homologue Group: Pentas

Data File Name: U140307A_03
Date Acquired: 3/7/2014
Sample Description: LCS LCSD-39502 - SMT

Lab Sample ID: LCSD-39502
Client Sample ID: DLCSRM
Instrument: 10MSHR06 (U)

Data File: U140307A_03 G2 C1 - 339.8597
LCS LCSD-39502 - SMT



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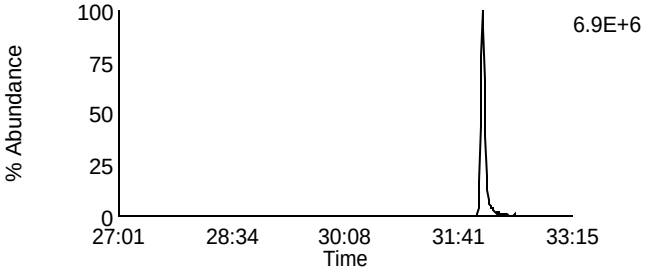
LCS LCSD-39502 - SMT



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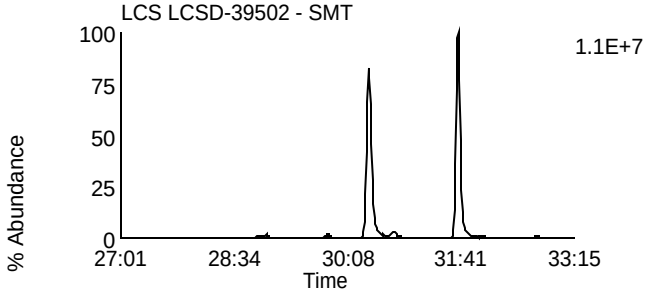
LCS LCSD-39502 - SMT



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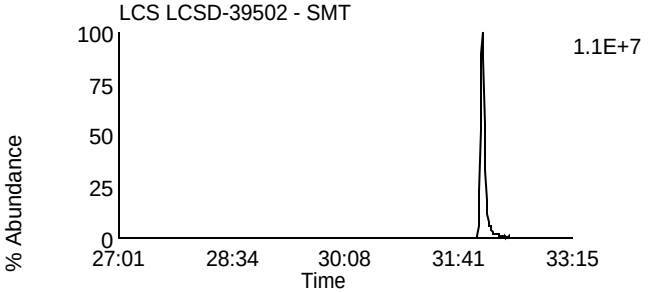
LCS LCSD-39502 - SMT



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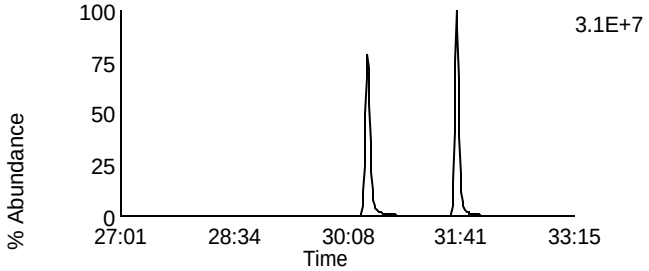
LCS LCSD-39502 - SMT



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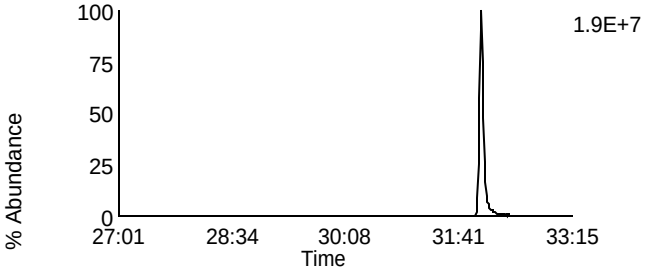
LCS LCSD-39502 - SMT



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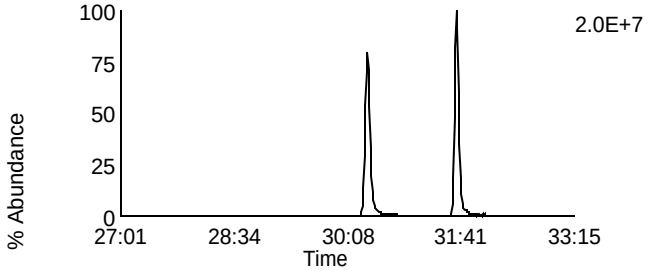
LCS LCSD-39502 - SMT



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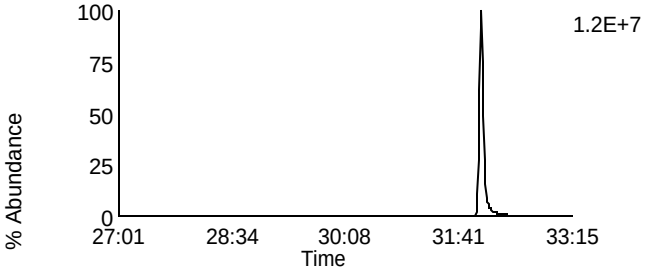
LCS LCSD-39502 - SMT



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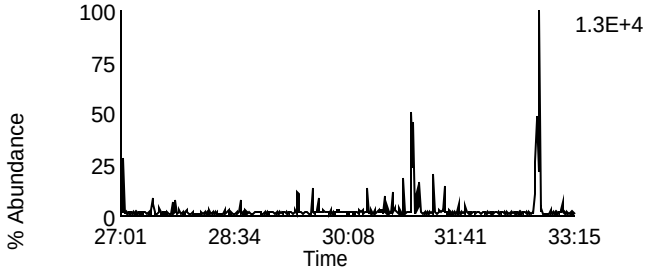
LCS LCSD-39502 - SMT



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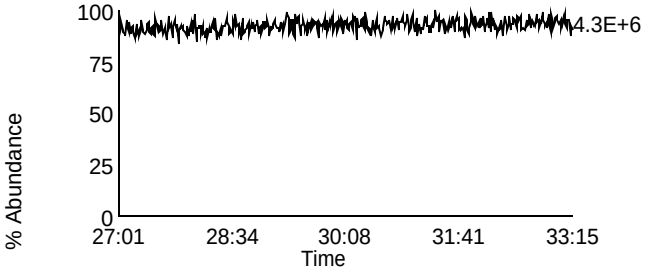
LCS LCSD-39502 - SMT

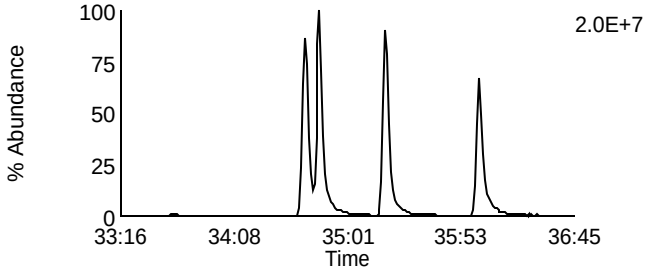


Homologue Group: Hexas

Data File Name: U140307A_03
Date Acquired: 3/7/2014
Sample Description: LCS LCSD-39502 - SMT

Lab Sample ID: LCSD-39502
Client Sample ID: DLCSRM
Instrument: 10MSHR06 (U)

Data File: U140307A_03 G3 C1 - 373.8207
LCS LCSD-39502 - SMT



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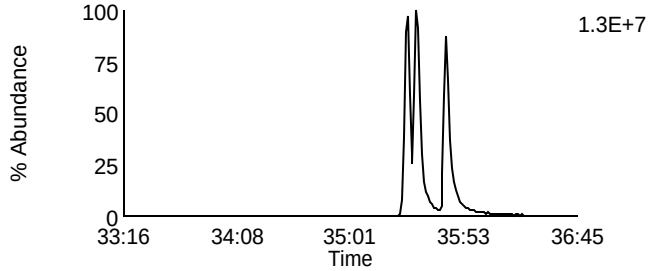

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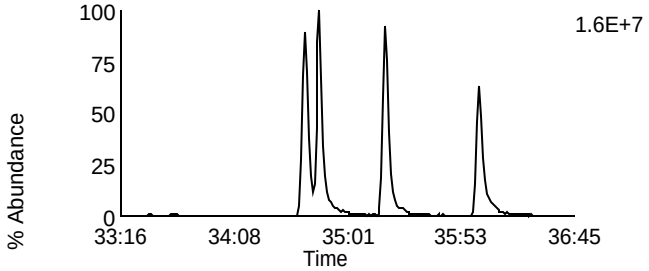

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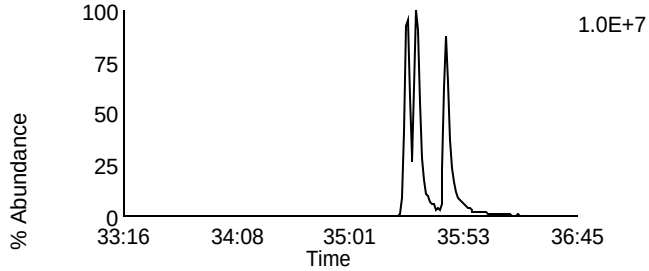

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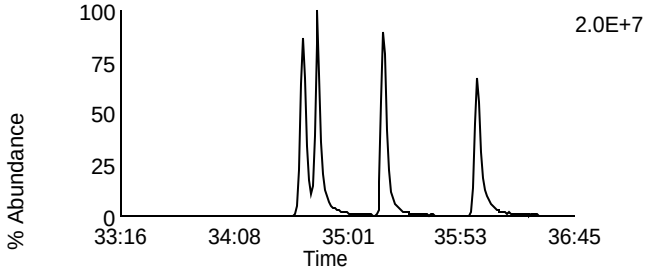

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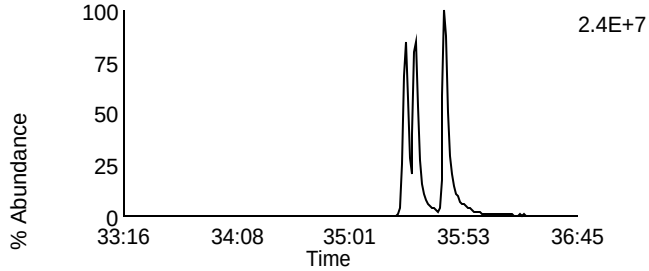
LCS LCSD-39502 - SMT



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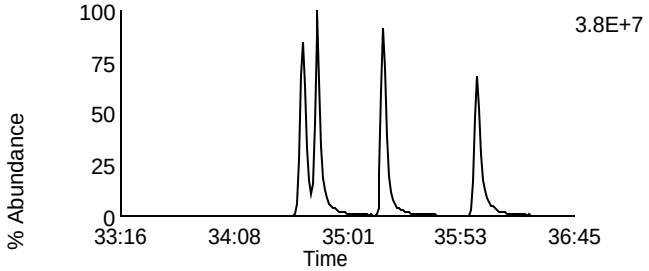
LCS LCSD-39502 - SMT



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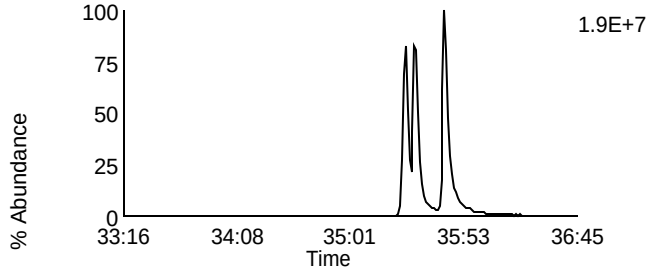
LCS LCSD-39502 - SMT



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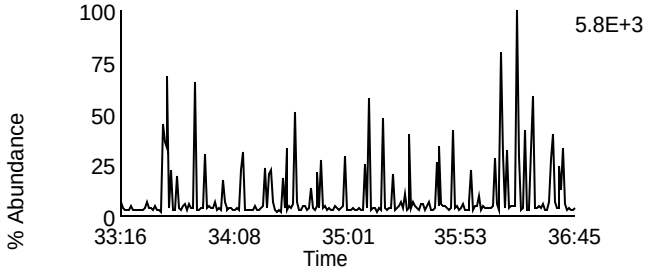
LCS LCSD-39502 - SMT



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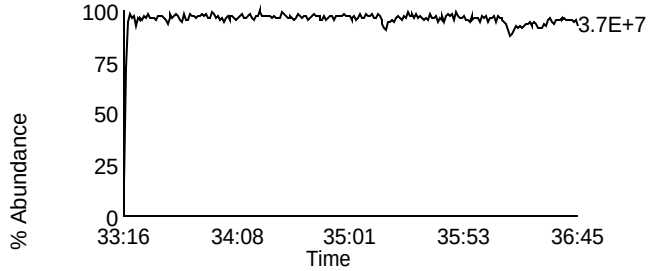
LCS LCSD-39502 - SMT

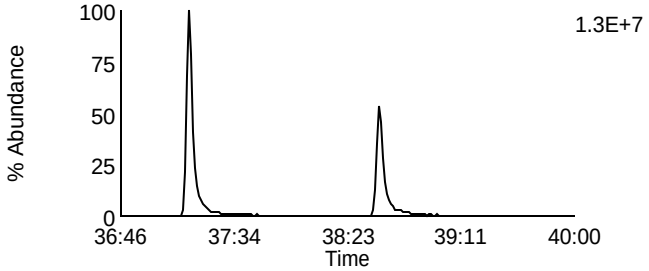


Homologue Group: Heptas

Data File Name: U140307A_03
Date Acquired: 3/7/2014
Sample Description: LCS LCSD-39502 - SMT

Lab Sample ID: LCSD-39502
Client Sample ID: DLCSRM
Instrument: 10MSHR06 (U)

Data File: U140307A_03 G4 C3 - 407.7818
LCS LCSD-39502 - SMT



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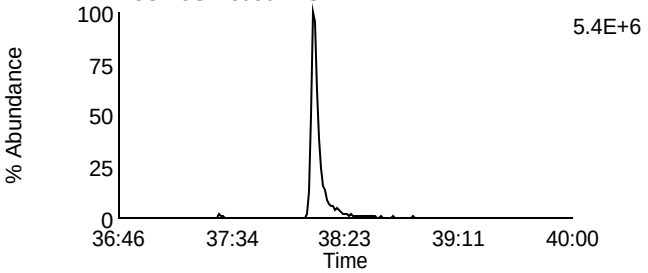
LCS LCSD-39502 - SMT



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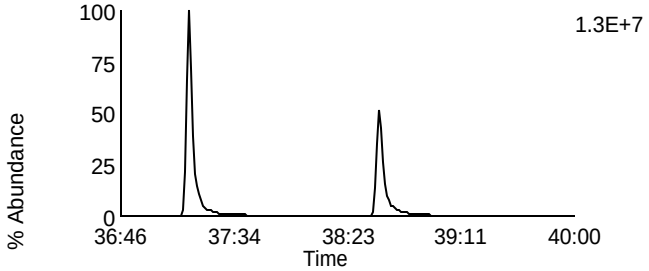
LCS LCSD-39502 - SMT



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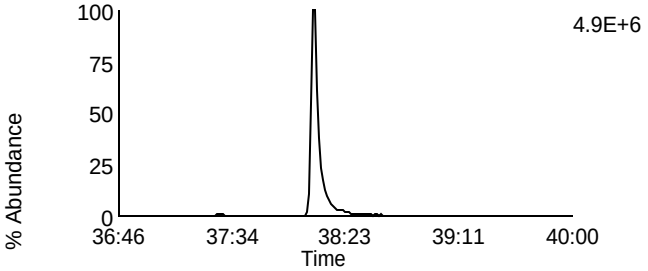
LCS LCSD-39502 - SMT



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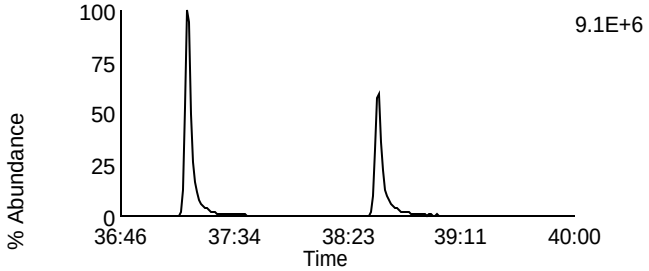
LCS LCSD-39502 - SMT



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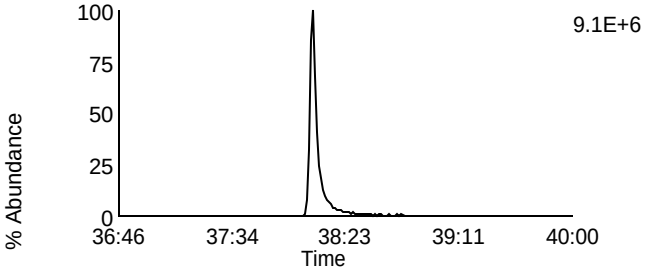
LCS LCSD-39502 - SMT



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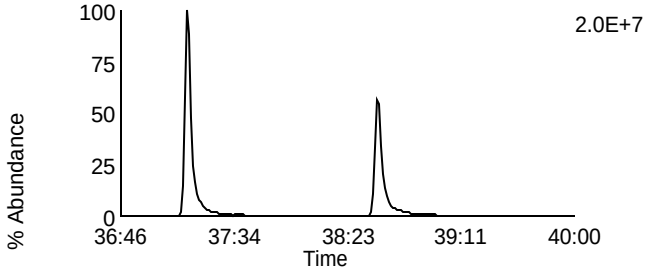
LCS LCSD-39502 - SMT



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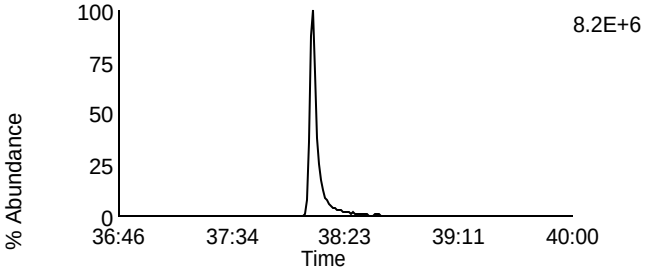
LCS LCSD-39502 - SMT



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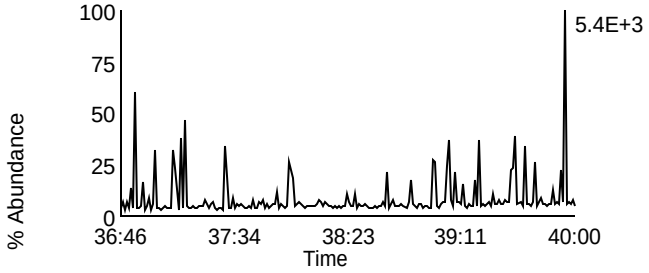
LCS LCSD-39502 - SMT



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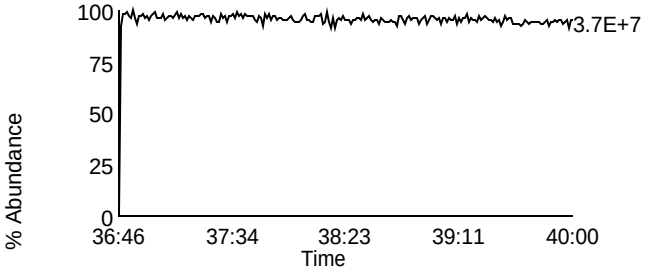
LCS LCSD-39502 - SMT

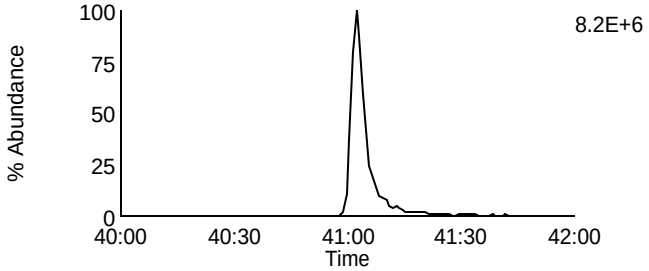


Homologue Group: Octas

Data File Name: U140307A_03
Date Acquired: 3/7/2014
Sample Description: LCS LCSD-39502 - SMT

Lab Sample ID: LCSD-39502
Client Sample ID: DLCSRM
Instrument: 10MSHR06 (U)

Data File: U140307A_03 G5 C4 - 441.7428
LCS LCSD-39502 - SMT



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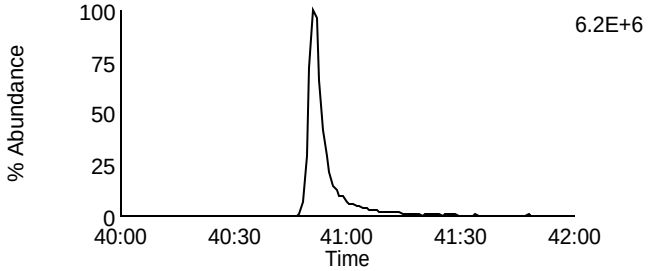
LCS LCSD-39502 - SMT



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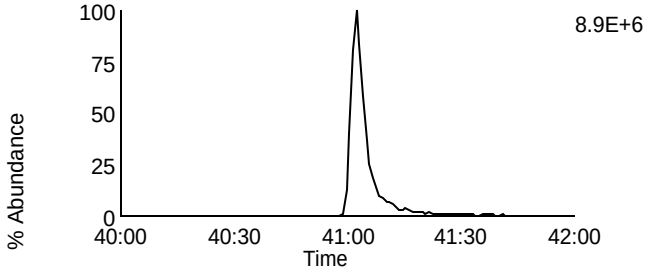

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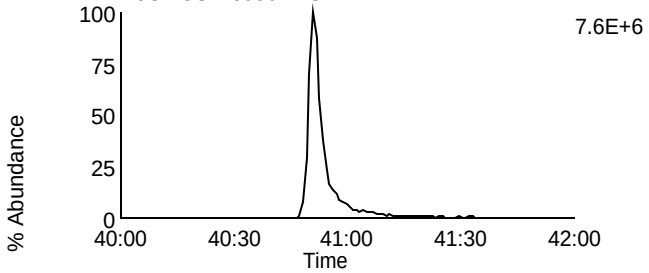

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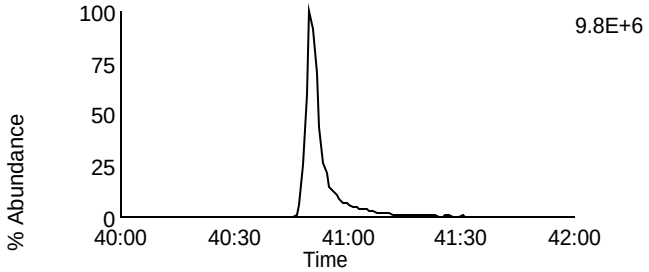

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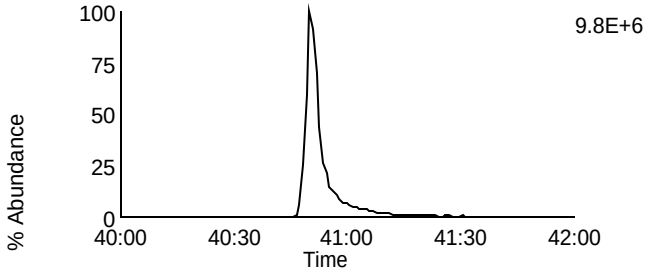
LCS LCSD-39502 - SMT



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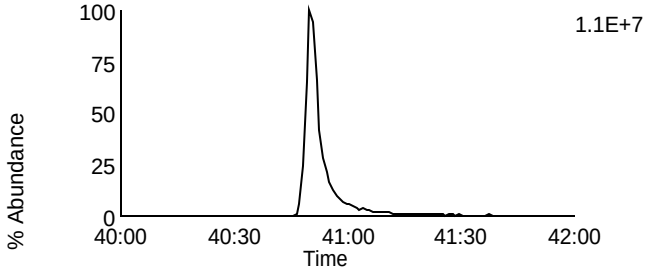
LCS LCSD-39502 - SMT



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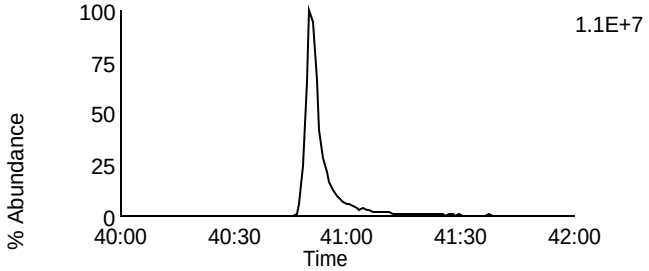
LCS LCSD-39502 - SMT



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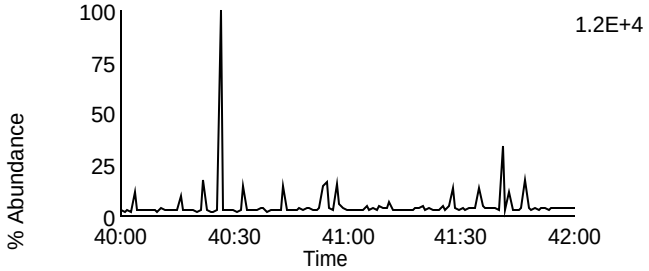
LCS LCSD-39502 - SMT



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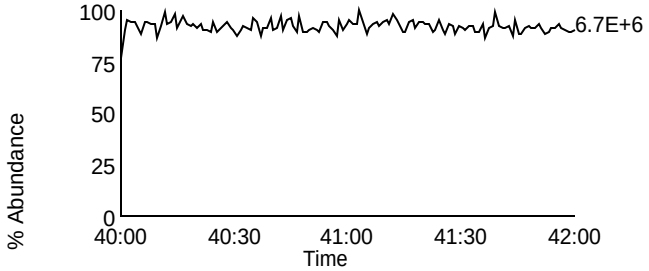

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	CVS
Lab ID	BLANK-39430	Instrument ID	10MSHR05 (F)
Filename	F140228B_04	GC Column ID	USD331524H
Analyzed	02/28/2014 13:15	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	20:22	5.51e6	6.96e6	8.63e5	1.02e6	3.394e3	3.475e3	0.79	
2,3,7,8-TCDF	20:24	ND	ND	ND	ND	3.792e2	3.817e2		

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	20:31	5.66e6	7.29e6	8.92e5	1.20e6	1.424e3	2.111e3	0.78	
2,3,7,8-TCDD-13C	21:24	3.93e6	5.47e6	5.22e5	7.69e5	2.351e3	2.241e3	0.72	
2,3,7,8-TCDD-37Cl4	21:25	8.72e5		1.18e5		4.166e2	-----		
2,3,7,8-TCDD	21:27	ND	ND	ND	ND	4.475e2	3.828e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	28:22	6.02e6	3.63e6	5.89e5	3.36e5	5.737e2	1.834e3	1.66	
2,3,4,7,8-PeCDF-13C	30:42	5.31e6	3.26e6	6.37e5	3.85e5	6.907e2	1.560e3	1.63	
1,2,3,7,8-PeCDF	28:24	ND	ND	ND	ND	2.784e2	2.296e2		
2,3,4,7,8-PeCDF	30:43	ND	ND	ND	ND	3.166e2	2.632e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:16	4.03e6	2.55e6	5.29e5	3.39e5	2.228e3	2.111e3	1.58	
1,2,3,7,8-PeCDD	31:17	ND	ND	ND	ND	1.973e2	2.249e2		

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	35:31	2.45e6	4.89e6	5.02e5	9.59e5	2.360e2	1.132e3	0.50	
1,2,3,6,7,8-HxCDF-13C	35:41	3.15e6	6.05e6	5.32e5	1.11e6	1.086e2	3.792e2	0.52	
2,3,4,6,7,8-HxCDF-13C	36:30	2.38e6	4.74e6	4.74e5	9.98e5	5.854e2	8.119e1	0.50	
1,2,3,7,8,9-HxCDF-13C	37:33	2.22e6	4.33e6	4.18e5	8.03e5	1.935e3	2.850e3	0.51	
1,2,3,4,7,8-HxCDF	35:32	ND	ND	ND	ND	4.532e2	2.348e2		
1,2,3,6,7,8-HxCDF	35:42	4.51e3	7.36e3	1.53e3	2.90e3	4.698e2	3.108e2	0.61	I
2,3,4,6,7,8-HxCDF	36:32	1.81e4	8.60e3	6.28e3	2.69e3	6.159e2	3.558e2	2.10	I
1,2,3,7,8,9-HxCDF	37:34	1.97e4	4.37e3	7.69e3	1.36e3	5.175e2	2.750e2	4.51	I

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Client ID		Injected By	CVS
Lab ID	BLANK-39430	Instrument ID	10MSHR05 (F)
Filename	F140228B_04	GC Column ID	USD331524H
Analyzed	02/28/2014 13:15	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	36:42	3.40e6	2.64e6	7.31e5	5.83e5	3.978e3	7.225e3	1.29	
1,2,3,6,7,8-HxCDD-13C	36:49	4.03e6	3.14e6	7.50e5	5.73e5	4.635e3	2.253e3	1.28	
1,2,3,7,8,9-HxCDD-13C	37:09	4.37e6	3.42e6	8.37e5	6.49e5	2.429e3	1.822e3	1.28	
1,2,3,4,7,8-HxCDD	36:43	ND	ND	ND	ND	3.321e2	3.023e2		
1,2,3,6,7,8-HxCDD	36:49	ND	ND	ND	ND	3.214e2	2.771e2		
1,2,3,7,8,9-HxCDD	37:10	8.06e3	4.78e3	3.19e3	1.52e3	2.921e2	2.836e2	1.68	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	39:25	2.13e6	5.02e6	4.08e5	9.48e5	2.665e3	1.614e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	41:13	1.51e6	3.80e6	2.86e5	7.75e5	8.553e2	1.969e3	0.40	
1,2,3,4,6,7,8-HpCDF	39:25	1.48e4	1.52e4	5.10e3	4.92e3	5.133e2	4.571e2	0.98	
1,2,3,4,7,8,9-HpCDF	41:17	9.95e3	8.79e3	5.20e3	3.69e3	4.111e2	2.637e2	1.13	

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	40:42	3.11e6	2.69e6	6.26e5	5.24e5	1.673e3	3.744e3	1.16	
1,2,3,4,6,7,8-HpCDD	40:43	1.29e4	9.77e3	5.17e3	3.79e3	4.616e2	5.155e2	1.32	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:11	2.38e4	2.21e4	8.97e3	6.96e3	7.723e2	8.688e2	1.08	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:59	4.09e6	4.55e6	6.28e5	7.39e5	7.076e1	1.040e2	0.90	
OCDD	44:01	2.87e4	2.86e4	8.34e3	5.31e3	5.815e2	4.579e2	1.00	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	BLANK-39500	Instrument ID	10MSHR06 (U)
Filename	U140307A_06	GC Column ID	USD397111H
Analyzed	03/07/2014 08:54	ICAL ID	U140306

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:50	9.09e7	1.11e8	1.43e7	1.75e7	2.213e4	1.142e4	0.82	
2,3,7,8-TCDF		22:53	7.86e4	1.01e5	2.13e4	1.72e4	3.367e3	2.753e3	0.78	
Other TCDF	1	21:16	3.64e4	4.67e4					0.78	
	2	21:47	4.64e4	6.48e4					0.72	
	3	18:55	8.91e4	1.09e5					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	23:09	8.17e7	9.92e7	1.27e7	1.49e7	6.452e3	3.299e3	0.82	
2,3,7,8-TCDD-13C	24:04	5.53e7	6.81e7	7.75e6	9.90e6	5.712e3	1.847e4	0.81	
2,3,7,8-TCDD-37Cl4	24:06	1.63e7		2.18e6		2.172e3	-----		
2,3,7,8-TCDD	24:07	ND	ND	ND	ND	1.364e3	2.454e3		

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	1.15e8	6.92e7	2.33e7	1.44e7	5.654e4	2.707e4	1.66	
2,3,4,7,8-PeCDF-13C		31:38	1.14e8	7.03e7	2.62e7	1.68e7	4.092e4	2.744e4	1.62	
1,2,3,7,8-PeCDF		30:24	2.36e4	3.64e4	7.11e3	1.72e4	1.958e3	2.250e3	0.65	I
2,3,4,7,8-PeCDF		31:40	4.14e4	1.22e4	1.06e4	3.99e3	2.228e3	2.870e3	3.38	I
Other PeCDF	1	30:48	4.31e4	2.48e4					1.73	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:59	7.04e7	4.47e7	1.63e7	1.03e7	2.124e4	1.058e4	1.57	
1,2,3,7,8-PeCDD	32:01	1.08e4	1.59e4	6.25e4	7.18e3	2.351e3	1.587e3	0.68	

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	34:40	4.58e7	8.65e7	1.47e7	2.77e7	2.619e3	4.472e3	0.53	
1,2,3,6,7,8-HxCDF-13C	34:47	6.38e7	1.18e8	1.67e7	3.14e7	2.919e3	1.223e5	0.54	
2,3,4,6,7,8-HxCDF-13C	35:17	5.26e7	9.57e7	1.43e7	2.75e7	4.889e3	4.472e3	0.55	
1,2,3,7,8,9-HxCDF-13C	36:01	4.36e7	8.25e7	1.12e7	2.12e7	1.702e4	1.132e5	0.53	
1,2,3,4,7,8-HxCDF	34:41	ND	ND	ND	ND	2.112e3	2.107e3		

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Client ID		Injected By	SMT
Lab ID	BLANK-39500	Instrument ID	10MSHR06 (U)
Filename	U140307A_06	GC Column ID	USD397111H
Analyzed	03/07/2014 08:54	ICAL ID	U140306

1,2,3,6,7,8-HxCDF	34:48	ND	ND	ND	ND	2.795e3	2.107e3		
2,3,4,6,7,8-HxCDF	35:18	ND	ND	ND	ND	2.189e3	2.276e3		
1,2,3,7,8,9-HxCDF	36:02	ND	ND	ND	ND	2.212e3	2.238e3		

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	35:26	4.85e7	3.80e7	1.71e7	1.36e7	1.496e4	1.305e4	1.28	
1,2,3,6,7,8-HxCDD-13C	35:31	6.32e7	4.94e7	1.80e7	1.38e7	2.413e3	1.314e4	1.28	
1,2,3,7,8,9-HxCDD-13C	35:44	8.26e7	6.64e7	2.04e7	1.63e7	1.342e5	4.529e4	1.24	
1,2,3,4,7,8-HxCDD	35:27	ND	ND	ND	ND	2.717e3	1.649e3		
1,2,3,6,7,8-HxCDD	35:32	ND	ND	ND	ND	3.055e3	1.754e3		
1,2,3,7,8,9-HxCDD	35:45	ND	ND	ND	ND	3.055e3	2.250e3		

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	37:15	2.81e7	6.10e7	7.64e6	1.63e7	1.124e4	4.081e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:37	1.89e7	4.21e7	4.76e6	1.07e7	1.124e4	2.924e4	0.45	
1,2,3,4,6,7,8-HpCDF	37:14	1.77e4	1.89e4	8.14e3	7.82e3	2.407e3	2.108e3	0.94	
1,2,3,4,7,8,9-HpCDF	38:38	ND	ND	ND	ND	2.119e3	2.166e3		

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	38:09	3.01e7	2.86e7	7.81e6	7.27e6	2.751e4	1.414e3	1.05	
1,2,3,4,6,7,8-HpCDD	38:10	2.48e4	1.51e4	1.48e4	8.04e3	2.782e3	2.100e3	1.64	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:03	7.53e3	9.45e3	3.91e3	3.57e3	2.885e3	2.129e3	0.80	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	4.19e7	4.65e7	9.08e6	9.73e6	4.174e2	8.640e1	0.90	
OCDD	40:52	4.54e4	3.08e4	8.93e3	7.53e3	2.830e3	1.876e3	1.47	I

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Client ID		Injected By	SMT
Lab ID	BLANK-39500	Instrument ID	10MSHR06 (U)
Filename	U140307A_06	GC Column ID	USD397111H
Analyzed	03/07/2014 08:54	ICAL ID	U140306

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSPX	Injected By	SMT
Lab ID	LCS-39431	Instrument ID	10MSHR05 (F)
Filename	F140227B_14	GC Column ID	USD331524H
Analyzed	02/27/2014 23:41	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	20:24	3.10e7	3.87e7	4.45e6	5.55e6	-----	-----	0.80	
2,3,7,8-TCDF	20:25	2.95e6	3.89e6	4.61e5	5.55e5	-----	-----	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	20:33	2.57e7	3.24e7	3.92e6	4.93e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	21:25	2.29e7	2.88e7	3.27e6	3.94e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	21:27	5.35e6		7.18e5		-----	-----		
2,3,7,8-TCDD	21:27	1.83e6	2.42e6	2.37e5	3.09e5	-----	-----	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	28:24	3.10e7	1.92e7	2.91e6	1.85e6	-----	-----	1.62	
2,3,4,7,8-PeCDF-13C	30:40	2.77e7	1.71e7	3.47e6	2.13e6	-----	-----	1.62	
1,2,3,7,8-PeCDF	28:26	1.66e7	1.05e7	1.58e6	9.85e5	-----	-----	1.58	
2,3,4,7,8-PeCDF	30:42	1.46e7	9.15e6	1.94e6	1.22e6	-----	-----	1.59	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:15	1.97e7	1.25e7	2.73e6	1.70e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	31:17	5.84e6	9.25e6	8.88e5	1.30e6	-----	-----	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	35:24	1.17e7	2.23e7	2.34e6	4.43e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:34	1.47e7	2.85e7	2.84e6	5.38e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	36:21	1.32e7	2.54e7	2.69e6	5.16e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:22	1.34e7	2.57e7	2.63e6	5.07e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:26	1.11e7	8.98e6	2.15e6	1.78e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	35:35	1.41e7	1.10e7	2.57e6	2.11e6	-----	-----	1.28	
2,3,4,6,7,8-HxCDF	36:23	1.24e7	9.61e6	2.48e6	1.97e6	-----	-----	1.29	
1,2,3,7,8,9-HxCDF	37:24	1.12e7	8.91e6	2.26e6	1.80e6	-----	-----	1.26	

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Client ID	DLCSPX	Injected By	SMT
Lab ID	LCS-39431	Instrument ID	10MSHR05 (F)
Filename	F140227B_14	GC Column ID	USD331524H
Analyzed	02/27/2014 23:41	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	36:32	1.62e7	1.28e7	3.68e6	2.98e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	36:40	1.89e7	1.46e7	3.72e6	2.89e6	-----	-----	1.29	
1,2,3,7,8,9-HxCDD-13C	36:60	2.23e7	1.75e7	4.61e6	3.59e6	-----	-----	1.27	
1,2,3,4,7,8-HxCDD	36:34	8.81e6	6.86e6	2.01e6	1.56e6	-----	-----	1.28	
1,2,3,6,7,8-HxCDD	36:41	1.02e7	7.91e6	2.03e6	1.62e6	-----	-----	1.29	
1,2,3,7,8,9-HxCDD	37:01	9.81e6	7.81e6	2.04e6	1.55e6	-----	-----	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	39:10	1.00e7	2.17e7	2.01e6	4.45e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	40:52	8.01e6	1.83e7	1.76e6	3.84e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	39:11	1.13e7	1.12e7	2.35e6	2.25e6	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	40:53	8.19e6	8.03e6	1.77e6	1.79e6	-----	-----	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	40:21	1.43e7	1.34e7	3.18e6	3.15e6	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	40:22	7.33e6	7.16e6	1.66e6	1.52e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:31	1.30e7	1.39e7	2.39e6	2.61e6	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:19	2.24e7	2.50e7	4.19e6	4.61e6	-----	-----	0.90	
OCDD	43:20	1.20e7	1.32e7	2.09e6	2.44e6	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSRL	Injected By	SMT
Lab ID	LCS-39501	Instrument ID	10MSHR06 (U)
Filename	U140307A_02	GC Column ID	USD397111H
Analyzed	03/07/2014 05:55	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	9.10e7	1.10e8	1.35e7	1.62e7	-----	-----	0.82	
2,3,7,8-TCDF	22:52	1.06e7	1.29e7	1.69e6	1.90e6	-----	-----	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	23:10	8.40e7	1.02e8	1.29e7	1.60e7	-----	-----	0.82	
2,3,7,8-TCDD-13C	24:04	5.47e7	6.74e7	7.51e6	9.51e6	-----	-----	0.81	
2,3,7,8-TCDD-37Cl4	24:07	1.44e7		2.04e6		-----	-----		
2,3,7,8-TCDD	24:07	6.42e6	7.74e6	9.26e5	1.19e6	-----	-----	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	30:25	1.16e8	7.46e7	2.34e7	1.45e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:39	1.21e8	7.51e7	2.81e7	1.83e7	-----	-----	1.61	
1,2,3,7,8-PeCDF	30:27	6.48e7	4.16e7	1.24e7	7.78e6	-----	-----	1.56	
2,3,4,7,8-PeCDF	31:40	6.50e7	4.15e7	1.53e7	1.02e7	-----	-----	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	32:01	7.44e7	4.48e7	1.69e7	1.04e7	-----	-----	1.66	
1,2,3,7,8-PeCDD	32:02	2.56e7	4.00e7	5.86e6	9.42e6	-----	-----	0.64	

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	34:41	4.82e7	9.27e7	1.54e7	2.92e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:48	6.98e7	1.32e8	1.79e7	3.26e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:18	5.89e7	1.12e8	1.68e7	3.27e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	36:02	4.90e7	9.28e7	1.27e7	2.33e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	34:42	4.81e7	3.92e7	1.55e7	1.27e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:49	6.55e7	5.42e7	1.72e7	1.36e7	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	35:19	5.65e7	4.47e7	1.62e7	1.32e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	36:02	4.24e7	3.38e7	1.10e7	8.69e6	-----	-----	1.25	

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Client ID	DLCSRL	Injected By	SMT
Lab ID	LCS-39501	Instrument ID	10MSHR06 (U)
Filename	U140307A_02	GC Column ID	USD397111H
Analyzed	03/07/2014 05:55	ICAL ID	U140306

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	35:27	5.39e7	4.20e7	1.83e7	1.36e7	-----	-----	1.28	
1,2,3,6,7,8-HxCDD-13C	35:31	6.87e7	5.27e7	1.80e7	1.46e7	-----	-----	1.30	
1,2,3,7,8,9-HxCDD-13C	35:45	8.68e7	6.81e7	2.09e7	1.66e7	-----	-----	1.27	
1,2,3,4,7,8-HxCDD	35:27	3.33e7	2.52e7	1.06e7	8.93e6	-----	-----	1.32	
1,2,3,6,7,8-HxCDD	35:32	4.11e7	3.50e7	1.16e7	9.22e6	-----	-----	1.17	
1,2,3,7,8,9-HxCDD	35:46	3.95e7	3.03e7	9.65e6	7.61e6	-----	-----	1.30	

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	37:15	3.07e7	6.57e7	8.55e6	1.76e7	-----	-----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:37	2.01e7	4.25e7	4.75e6	1.00e7	-----	-----	0.47	
1,2,3,4,6,7,8-HpCDF	37:16	4.00e7	3.88e7	1.15e7	1.11e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:38	2.33e7	2.27e7	6.17e6	5.72e6	-----	-----	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	38:10	3.10e7	2.87e7	7.72e6	7.39e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:11	1.81e7	1.76e7	4.66e6	4.31e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:04	3.05e7	3.49e7	6.55e6	6.96e6	-----	-----	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	3.77e7	4.28e7	8.14e6	9.19e6	-----	-----	0.88	
OCDD	40:52	2.53e7	2.75e7	5.31e6	5.79e6	-----	-----	0.92	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSPY	Injected By	CVS
Lab ID	LCSD-39432	Instrument ID	10MSHR05 (F)
Filename	F140228B_02	GC Column ID	USD331524H
Analyzed	02/28/2014 11:43	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	20:23	6.84e6	8.96e6	1.09e6	1.36e6	-----	-----	0.76	
2,3,7,8-TCDF	20:24	6.31e5	8.30e5	9.26e4	1.32e5	-----	-----	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	20:31	6.12e6	7.79e6	9.79e5	1.32e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	21:24	5.08e6	6.64e6	7.16e5	9.70e5	-----	-----	0.76	
2,3,7,8-TCDD-37Cl4	21:27	1.18e6		1.55e5		-----	-----		
2,3,7,8-TCDD	21:25	4.31e5	5.42e5	5.81e4	8.68e4	-----	-----	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	28:22	7.41e6	4.70e6	7.37e5	4.70e5	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	30:41	7.57e6	4.67e6	1.08e6	6.35e5	-----	-----	1.62	
1,2,3,7,8-PeCDF	28:24	3.87e6	2.42e6	3.96e5	2.40e5	-----	-----	1.60	
2,3,4,7,8-PeCDF	30:44	3.85e6	2.46e6	5.57e5	3.43e5	-----	-----	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	31:17	5.57e6	3.43e6	7.52e5	4.74e5	-----	-----	1.62	
1,2,3,7,8-PeCDD	31:19	1.51e6	2.47e6	1.98e5	3.57e5	-----	-----	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	35:32	3.28e6	6.58e6	6.54e5	1.36e6	-----	-----	0.50	
1,2,3,6,7,8-HxCDF-13C	35:41	4.33e6	8.81e6	7.83e5	1.67e6	-----	-----	0.49	
2,3,4,6,7,8-HxCDF-13C	36:30	3.86e6	7.47e6	7.78e5	1.59e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:33	3.62e6	6.98e6	7.33e5	1.44e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:32	3.45e6	2.80e6	7.46e5	5.84e5	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	35:42	4.02e6	3.17e6	7.41e5	5.47e5	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	36:31	3.79e6	2.85e6	7.50e5	5.89e5	-----	-----	1.33	
1,2,3,7,8,9-HxCDF	37:34	3.16e6	2.51e6	6.32e5	4.95e5	-----	-----	1.26	

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Client ID	DLCSPY	Injected By	CVS
Lab ID	LCSD-39432	Instrument ID	10MSHR05 (F)
Filename	F140228B_02	GC Column ID	USD331524H
Analyzed	02/28/2014 11:43	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	36:42	4.87e6	3.78e6	1.05e6	8.19e5	-----	-----	1.29	
1,2,3,6,7,8-HxCDD-13C	36:49	5.42e6	4.15e6	1.06e6	8.41e5	-----	-----	1.31	
1,2,3,7,8,9-HxCDD-13C	37:09	5.85e6	4.85e6	1.24e6	9.85e5	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	36:43	2.49e6	1.98e6	5.83e5	4.59e5	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	36:50	2.79e6	2.11e6	5.81e5	4.39e5	-----	-----	1.32	
1,2,3,7,8,9-HxCDD	37:10	2.63e6	1.94e6	5.33e5	3.79e5	-----	-----	1.36	

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	39:25	3.14e6	7.08e6	6.71e5	1.46e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:13	2.44e6	5.85e6	5.19e5	1.24e6	-----	-----	0.42	
1,2,3,4,6,7,8-HpCDF	39:25	3.61e6	3.62e6	7.22e5	7.27e5	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	41:14	2.76e6	2.56e6	5.33e5	5.51e5	-----	-----	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	40:41	4.65e6	4.56e6	9.89e5	9.12e5	-----	-----	1.02	
1,2,3,4,6,7,8-HpCDD	40:43	2.47e6	2.39e6	4.88e5	4.51e5	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:10	3.90e6	4.44e6	6.52e5	7.24e5	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:00	6.88e6	7.63e6	1.12e6	1.24e6	-----	-----	0.90	
OCDD	44:01	3.66e6	4.18e6	5.70e5	6.19e5	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSRM	Injected By	SMT
Lab ID	LCSD-39502	Instrument ID	10MSHR06 (U)
Filename	U140307A_03	GC Column ID	USD397111H
Analyzed	03/07/2014 06:40	ICAL ID	U140306

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	9.28e7	1.15e8	1.36e7	1.70e7	-----	-----	0.81	
2,3,7,8-TCDF	22:51	1.12e7	1.44e7	1.66e6	2.11e6	-----	-----	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	23:09	8.78e7	1.07e8	1.34e7	1.68e7	-----	-----	0.82	
2,3,7,8-TCDD-13C	24:04	5.71e7	7.09e7	7.93e6	9.88e6	-----	-----	0.81	
2,3,7,8-TCDD-37Cl4	24:06	1.59e7		2.18e6		-----	-----		
2,3,7,8-TCDD	24:06	6.61e6	8.67e6	9.26e5	1.23e6	-----	-----	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	30:24	1.21e8	7.72e7	2.48e7	1.56e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	31:38	1.30e8	8.08e7	3.15e7	1.96e7	-----	-----	1.61	
1,2,3,7,8-PeCDF	30:25	7.05e7	4.57e7	1.43e7	9.14e6	-----	-----	1.54	
2,3,4,7,8-PeCDF	31:40	7.27e7	4.76e7	1.66e7	1.10e7	-----	-----	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	32:00	7.99e7	5.02e7	1.95e7	1.21e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:01	2.93e7	4.49e7	6.90e6	1.06e7	-----	-----	0.65	

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	34:40	5.20e7	9.94e7	1.73e7	3.20e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:47	7.26e7	1.42e8	1.99e7	3.77e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	35:17	6.28e7	1.17e8	1.78e7	3.46e7	-----	-----	0.54	
1,2,3,7,8,9-HxCDF-13C	36:01	5.22e7	9.69e7	1.33e7	2.57e7	-----	-----	0.54	
1,2,3,4,7,8-HxCDF	34:41	5.45e7	4.50e7	1.71e7	1.44e7	-----	-----	1.21	
1,2,3,6,7,8-HxCDF	34:48	7.32e7	5.96e7	1.98e7	1.60e7	-----	-----	1.23	
2,3,4,6,7,8-HxCDF	35:18	6.27e7	5.06e7	1.78e7	1.47e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	36:02	4.98e7	3.87e7	1.32e7	1.01e7	-----	-----	1.29	

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Client ID	DLCSRM	Injected By	SMT
Lab ID	LCSD-39502	Instrument ID	10MSHR06 (U)
Filename	U140307A_03	GC Column ID	USD397111H
Analyzed	03/07/2014 06:40	ICAL ID	U140306

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	35:26	5.73e7	4.51e7	2.03e7	1.59e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	35:31	7.36e7	5.74e7	2.03e7	1.58e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	35:44	9.38e7	7.49e7	2.40e7	1.91e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	35:27	3.79e7	3.03e7	1.25e7	9.80e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:31	4.59e7	3.66e7	1.30e7	1.03e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	35:45	4.28e7	3.40e7	1.13e7	8.95e6	-----	-----	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	37:14	3.25e7	7.01e7	9.09e6	2.00e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:37	2.27e7	4.77e7	5.36e6	1.13e7	-----	-----	0.48	
1,2,3,4,6,7,8-HpCDF	37:15	4.51e7	4.26e7	1.29e7	1.28e7	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	38:37	2.76e7	2.62e7	6.89e6	6.65e6	-----	-----	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	38:09	3.41e7	3.17e7	9.12e6	8.15e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:09	2.14e7	1.95e7	5.43e6	4.94e6	-----	-----	1.10	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:03	3.77e7	3.99e7	8.18e6	8.88e6	-----	-----	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	4.54e7	5.10e7	9.82e6	1.08e7	-----	-----	0.89	
OCDD	40:52	3.07e7	3.31e7	6.23e6	7.57e6	-----	-----	0.93	

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