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 #: 10260486
Sample Receipt Date: 03/14/2014
Client Project #: 4092925
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 31, 2014
Nicole Benjamin,

(fax)

Report Prepared Date:
March 31, 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 nineteen 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 58-113%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

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

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

Laboratory and matrix spike samples were also prepared using clean reference material or sample matrix that had been fortified with native standards. Recoveries of the native compounds ranged from 80-127% with relative percent differences of 0.1-12.1%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the 03/24/2014 sample batch.

The native congeners in the laboratory and matrix spike samples were added at twice the amounts specified in our procedures. The actual amounts were used in the calculations and accurate recovery values were reported. It should be noted that the accuracy of the native congener determinations in the field samples was not impacted by these deviations.

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Fax: 612- 607-6444

Minnesota Laboratory Certifications

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

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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

WHO1998 Factors

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

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Appendix A

Sample Management

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

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

Sample ID Cross Reference

Client Sample ID	Pace Sample ID	Date Received	Sample Type
MAK111C	10260486001	03/14/2014	Sea Cucumb
MAK113C	10260486002	03/14/2014	Sea Cucumb
MAK114C	10260486003	03/14/2014	Sea Cucumb
MAK114C-MS	10260486003-MS	03/14/2014	Sea Cucumb
MAK114C-MSD	10260486003-MSD	03/14/2014	Sea Cucumb
MAK115C	10260486004	03/14/2014	Sea Cucumb
MAK116C	10260486005	03/14/2014	Sea Cucumb
MAK117C	10260486006	03/14/2014	Sea Cucumb
MAK118C	10260486007	03/14/2014	Sea Cucumb
MAK120C	10260486008	03/14/2014	Sea Cucumb
MAK120C-MS	10260486008-MS	03/14/2014	Sea Cucumb
MAK120C-MSD	10260486008-MSD	03/14/2014	Sea Cucumb
MAK120L	10260486009	03/14/2014	Limu
MAK121L	10260486010	03/14/2014	Limu
MAK121L-MS	10260486010-MS	03/14/2014	Limu
MAK121L-MSD	10260486010-MSD	03/14/2014	Limu
MAK122L	10260486011	03/14/2014	Limu
MAK123L	10260486012	03/14/2014	Limu
MAK123L-MS	10260486012-MS	03/14/2014	Limu
MAK123L-MSD	10260486012-MSD	03/14/2014	Limu
MAK124L	10260486013	03/14/2014	Limu
MAK126L	10260486014	03/14/2014	Limu
MAK127L	10260486015	03/14/2014	Limu
MAK128L	10260486016	03/14/2014	Limu
MAK116L	10260486017	03/14/2014	Limu
MAK117L	10260486018	03/14/2014	Limu
MAK118L	10260486019	03/14/2014	Limu

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10260486

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
MAK111C	1/31/2014	1000		x	1	x							10260486			001	Mokuleia Site - Sea Cucumber	x	
MAK113C	1/31/2014	1120		x	1	x										002	Mokuleia Site - Sea Cucumber	x	
MAK114C	1/31/2014	1155		x	1	x										003	Mokuleia Site - Sea Cucumber	x	
MAK115C	1/31/2014	1300		x	1	x										004	Mokuleia Site - Sea Cucumber	x	
MAK116C	1/31/2014	1330		x	1	x										005	Mokuleia Site - Sea Cucumber	x	
MAK117C	1/31/2014	1435		x	1	x										006	Mokuleia Site - Sea Cucumber	x	
MAK118C	1/31/2014	1605		x	1	x										007	Mokuleia Site - Sea Cucumber	x	
MAK120C	2/11/2014	1030		x	1	x										008	Mokuleia Site - Sea Cucumber	x	
MAK120L	1/31/2014	1040		x	1	x										009	Mokuleia Site - Limu	x	
MAK121L	1/31/2014	1130		x	1	x										010	Mokuleia Site - Limu	x	
MAK122L	1/31/2014	1405		x	1	x										011	Mokuleia Site - Limu	x	
MAK123L	1/31/2014	1455		x	1	x										012	Mokuleia Site - Limu	x	
MAK124L	1/31/2014	1540		x	1	x										013	Mokuleia Site - Limu	x	
MAK126L	1/31/2014	1615		x	1	x										014	Mokuleia Site - Limu	x	
MAK127L	2/11/2014	1304		x	1	x										015	Mokuleia Site - Limu	x	
MAK128L	2/11/2014	1415		x	1	x										016	Mokuleia Site - Limu	x	
MAK116L	1/31/2014	820		x	1	x										017	Maena Point Site - Limu	x	
MAK117L	1/31/2014	835		x	1	x										018	Maena Point Site - Limu	x	
MAK118L	1/31/2014	910		x	1	x										019	Maena Point Site - Limu	x	

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
[signature]	3/13/14	1600	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature)	Date	Time	Shipping Ticket No.
[signature] pace	3/14/14	1040	

REMARKS / SPECIAL INSTRUCTIONS:

Project Samples. Please treat each matrix separately.

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

T=-13.7

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: ARDL

Project #: WO#: 10260486

10260486

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☒ Other: Courier

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: box **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☒ B88A912167504 ☐ B88A9132521491 **Type of Ice:** ☒ Dry ~~Wet~~ ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): -14.6 **Cooler Temp Corrected (°C):** -13.7 **Biological Tissue Frozen?** ☒ Yes ☐ No ☐ N/A BO 3/14/14

Temp should be above freezing to 6°C **Correction Factor:** 0.9 **Date and Initials of Person Examining Contents:** BO 3/14/14

				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: TF	☒ 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: (W) **Date:** 03/12/14

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-14553

Pace Analytical Services, Inc.

EB-14553

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Client(s):

Extraction On (Date/Time): 3/18/2014 9:15:00 PM

Extraction Off (Date/Time): 3/19/2014 1:15:00 PM

Standards:

Internal Std FS-I9966-091

Native FS-N-9966-090

Cl-37 Std DWCL4-9966-092

Recovery Std FS-R-9966-088

Tridecane A0322888

Mineral Oil

Others

☐ **Silica:**

Date 3/19/2014

Initials ped/kh

Hexane Lot # 136252

Dispenser ID

Neutral Batch # 247

Basic Batch # 330

Acid Batch # 496

☐ **Carbon:**

Date 3/20/2014

Initials MF

Toluene Lot # 136852

Dispenser ID

75% Batch # 325

Dispenser ID

50% Batch # 435

Dispenser ID

Hexane Lot # 136252

Dispenser ID

☐ **Alumina:**

Date 3/20/2014

Initials MF

Hexane Lot # 136252

Dispenser ID

60% Batch # 1571

Dispenser ID

Alumina Lot

Extract Solvents:

Toluene Lot #

Hexane Lot # 136252

MeCl Lot # 132700

☐ **Acid Base:**

H2SO4 Lot # 140516

Buffer Soln #

QC Matrix Lot/Batch# _____

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-39710			21.20					
2	LCS-39711			22.00					
3	10260486003-MS			20.50				Rcving	1613,T-O,"SPECIAL QC"
4	10260486003-MSD			20.40				Rcving	1613,T-O,"SPECIAL QC"
5	10260486008-MS			20.10				Rcving	1613,T-O,"SPECIAL QC"
6	10260486008-MSD			21.00				Rcving	1613,T-O,"SPECIAL QC"
7	10260486010-MS			21.50				Rcving	1613,T-O,"SPECIAL QC"
8	10260486010-MSD			20.30				Rcving	1613,T-O,"SPECIAL QC"
9	10260486012-MS			21.00				Rcving	1613,T-O,"SPECIAL QC"
10	10260486012-MSD			20.80				Rcving	1613,T-O,"SPECIAL QC"
11	10260486001			21.50				Rcving	1613,T-O,"SPECIAL QC"
12	10260486002			20.10				Rcving	1613,T-O,"SPECIAL QC"
13	10260486003			20.10				Rcving	1613,T-O,"SPECIAL QC"
14	10260486004			20.20				Rcving	1613,T-O,"SPECIAL QC"
15	10260486005			20.10				Rcving	1613,T-O,"SPECIAL QC"
16	10260486006			20.60				Rcving	1613,T-O,"SPECIAL QC"
17	10260486007			21.00				Rcving	1613,T-O,"SPECIAL QC"
18	10260486008			21.70				Rcving	1613,T-O,"SPECIAL QC"
19	10260486009			20.70				Rcving	1613,T-O,"SPECIAL QC"
20	10260486010			21.00				Rcving	1613,T-O,"SPECIAL QC"
21	10260486011			21.00				Rcving	1613,T-O,"SPECIAL QC"
22	10260486012			20.50				Rcving	1613,T-O,"SPECIAL QC"
23	10260486013			20.20				Rcving	1613,T-O,"SPECIAL QC"
24	10260486014			20.20				Rcving	1613,T-O,"SPECIAL QC"

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

Extraction Notes

Native spiked at twice normal amount. KH 3/18/14

FT BY MF 3/21/14

DIOXIN EXTRACTION WORKSHEET

Non Aqueous

Extraction Batch : EB-14578

Pace Analytical Services, Inc.

EB-14578

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Client(s):

Extraction On (Date/Time): 3/24/2014 9:30:00 PM

Extraction Off (Date/Time): 3/25/2014 1:30:00 PM

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-39803			20.00					
2	LCS-39804			20.30					
3	LCSD-39805			21.30					
4	10260486015			20.40				Rcving	1613,T-O,"SPECIAL QC"
5	10260486016			20.40				Rcving	1613,T-O,"SPECIAL QC"
6	10260486017			20.40				Rcving	1613,T-O,"SPECIAL QC"
7	10260486018			20.20				Rcving	1613,T-O,"SPECIAL QC"
8	10260486019			20.80				Rcving	1613,T-O,"SPECIAL QC"

Standards:

Internal Std FS-I-9966-091
Native FS-N-9966-090
Cl-37 Std DWCL4-9966-094
Recovery Std FS-R-9966-088
Tridecane TRIDEC 10ul
Mineral Oil
Others

☐ **Silica:**
Date 3/25/2014
Initials kh
Hexane Lot # 136252
Dispenser ID
Neutral Batch # 247
Basic Batch # 330
Acid Batch # 496

☐ **Alumina:**
Date 3/26/2014
Initials MF
Hexane Lot # 136252
Dispenser ID
60% Batch # 1572
Dispenser ID
Alumina Lot

☐ **Carbon:**
Date 3/26/2014
Initials MF /mch
Toluene Lot # 136852
Dispenser ID
75% Batch # 326
Dispenser ID
50% Batch # 435
Dispenser ID
Hexane Lot # 136252
Dispenser ID

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

☐ **Acid Base:**
H2SO4 Lot # 140516
Buffer Soln #

QC Matrix Lot/Batch# _____

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

FH025Rev.01, 05Jan2009

Extraction Notes

FT-MCH 3/27/14

BALANCE ID-P1885308

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

Analysis Key Code List

- = Not used

✔ = Worked up

= See comment # below

Li = Liner, replace or clean

Ba = Baseplate, change

SyB = Syringe, replace – bent

SyP = Syringe, replace – plugged

SyO = Syringe, replace – other

IS = Injector Septum, replace

BS = Batch Septum, replace

Fi = Filament, replace

Co = Contacts, adjust

Ca = re-Calibrate

Tu = Tune

TC = Tune and Calibrate

CC () = Cut Column (length cut)

CO = Carry-Over possible

RRM = ReRun - Matrix

RRLM = ReRun – Lock Mass

RRBI = ReRun – Bad Injection

RRRT = ReRun – Retention Time shift

RR>S = Rerun – need better Sensitivity

Re = Re-extract

AS = Adjust Slits

LC = Leak Check

RB = Re-Boot system

CiS = Cleaned inner Source

CoS = Cleaned outer Source

AiS = Alternate inner Source

AoS = Alternate outer Source

<Y = Adjust Y focus down

>Y = Adjust Y focus up

Di () = Dilution needed (amount needed)

FE = Front End – liner, baseplate and septum

Sample List Report **MassLynx 4.1** 10MSH209 6/24/13

Sample List: C:\MassLynx\Default.pro\Sampledb\P130624B.SPL

Last Modified: Monday, June 24, 2013 17:23:12 Central Daylight Time

Printed: Monday, June 24, 2013 17:23:20 Central Daylight Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol
1	P130624B_01	CAL CS3/CPM-7604-272 - SMT AS Ca	8290/1613B	dioxfur	dioxfur	Tray01:2	1.0
2	P130624B_02	CAL CS2-7604-215 - SMT	8290/1613B	dioxfur	dioxfur	Tray01:16	1.0
3	P130624B_03	CAL CS1-7604-273 - SMT	8290/1613B	dioxfur	dioxfur	Tray01:17	1.0
4	P130624B_04	CAL CS5-7604-217 - SMT	8290/1613B	dioxfur	dioxfur	Tray01:18	1.0
5	P130624B_05	CAL CS4-7604-216 - SMT	8290/1613B	dioxfur	dioxfur	Tray01:19	1.0
6	P130624B_06	BLANK NONANE - SMT did not run	HOUSE	dioxfur	dioxfur	Tray01:4	1.0
7	P130624B_07	CAL STD-33641 - SMT 2nd did not run	8290/1613B	dioxfur	dioxfur	Tray01:20	1.0
8	P130624B_08	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray01:4	1.0 } ①
9	P130624B_09	BLANK BLANK-36080-10X - BAL	HOUSE	dioxfur	dioxfur	Tray01:5	1.0
10	P130624B_10	CAL STD-33641 - SMT 2nd	8290/1613B	dioxfur	dioxfur	Tray01:20	1.0

① accidently started 8+9 instead of 6+7 BAL 6/24/13

SWK 6/28/13

Sample List Report MassLynx 4.1 10MSHR09 3/21/14

Sample List: C:\MassLynx\Default.pro\Sampledb\P140321B.SPL

Last Modified: Friday, March 21, 2014 17:52:57 Central Daylight Time

Printed: Friday, March 21, 2014 17:55:46 Central Daylight Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol	Process
1	P140321B_01	CAL CS3/CPM-7604-301 - BAL TC	8290/1613B	dioxfur	dioxfur	Tray01:16	1.0	--- pass all
2	P140321B_02	LCS LCS-39702 - BAL	1613B	dioxfur	dioxfur	Tray01:17	1.0	---
3	P140321B_03	LCS LCSD-39703 - BAL	1613B	dioxfur	dioxfur	Tray01:18	1.0	---
4	P140321B_04	LCS LCS-39664 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:19	1.0	---
5	P140321B_05	LCS LCSD-39665 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:20	1.0	---
6	P140321B_06	LCS LCS-39711 - BAL	1613B	dioxfur	dioxfur	Tray01:21	1.0	---
7	P140321B_07	Blank Nonane - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0	---
8	P140321B_08	BLANK BLANK-39710 - BAL	1613B	dioxfur	dioxfur	Tray01:22	1.0	---
9	P140321B_09	SAMP 10260486001 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:23	1.0	---
10	P140321B_10	SAMP 10260486002 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:24	1.0	---
11	P140321B_11	SAMP 10260486003 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:25	1.0	---
12	P140321B_12	SAMP 10260486004 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:26	1.0	---
13	P140321B_13	SAMP 10260486005 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:27	1.0	---
14	P140321B_14	SAMP 10260486006 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:28	1.0	---
15	P140321B_15	SAMP 10260486007 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:30	1.0	---
16	P140321B_16	SAMP 10260486008 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:31	1.0	---
17	P140321B_17	CAL CS3/CPM-7604-301 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:16	1.0	--- 8290 end

3/27/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 3/22/14

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

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

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

pass all

3/27/14

Sample List: C:\MassLynx\Default.pro\Sampledb\P140322B.SPL
Last Modified: Saturday, March 22, 2014 12:10:48 Central Daylight Time
Printed: Saturday, March 22, 2014 12:55:02 Central Daylight Time
Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol
1	P140322B_01	CAL CS3/CPM-7604-301 - BAL PFK TC	8290/1613B	dioxfur	dioxfur	Tray01:16	1.0
2	P140322B_02	Blank Nonane - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
3	P140322B_03	Blank Nonane - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
4	P140322B_04	SAMP 10260486009 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:32	1.0
5	P140322B_05	SAMP 10260486010 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:33	1.0
6	P140322B_06	SAMP 10260486011 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:34	1.0
7	P140322B_07	SAMP 10260486012 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:35	1.0
8	P140322B_08	SAMP 10260486013 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:36	1.0
9	P140322B_09	SAMP 10260486014 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:37	1.0
10	P140322B_10	SAMP 10260486003-MS - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:38	1.0
11	P140322B_11	SAMP 10260486003-MSD - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:39	1.0
12	P140322B_12	SAMP 10260486008-MS - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:40	1.0
13	P140322B_13	SAMP 10260486008-MSD - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:41	1.0
14	P140322B_14	SAMP 10260486010-MS - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:42	1.0
15	P140322B_15	SAMP 10260486010-MSD - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:44	1.0
16	P140322B_16	SAMP 10260486012-MS - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:45	1.0
17	P140322B_17	SAMP 10260486012-MSD - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray01:46	1.0

pass all

3/27/14

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 3/28/14

Sample List: C:\MassLynx\Default.pro\Sampledb\U140328b.SPL

Last Modified: Friday, March 28, 2014 18:58:12 Central Daylight Time

Printed: Friday, March 28, 2014 19:12:13 Central Daylight Time Page Position (1, 1)

8290 only GC window OK

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U140328B_01	CAL CS3/CPM-7604-301 - BAL FE CC1ft TC	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U140328B_02	CAL CS3/CPM-7604-301 - BAL set windows TC	82901613B	dioxfur	dioxfur	Tray1:1	1.000000
3	U140328B_03	LCS LCS-39770 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:4	1.000000
4	U140328B_04	LCS LCSD-39771 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:5	1.000000
5	U140328B_05	LCS LCS-39804 - BAL	1613B	dioxfur	dioxfur	Tray1:6	1.000000
6	U140328B_06	LCS LCSD-39805 - BAL	1613B	dioxfur	dioxfur	Tray1:7	1.000000
7	U140328B_07	LCS LCS-39898 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:8	1.000000
8	U140328B_08	LCS LCSD-39899 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:9	1.000000
9	U140328B_09	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000
10	U140328B_10	BLANK BLANK-39897 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:10	1.000000
11	U140328B_11	BLANK BLANK-39769 - BAL	1613B-TDF	dioxfur	dioxfur	Tray1:11	1.000000
12	U140328B_12	BLANK BLANK-39803- BAL	1613B	dioxfur	dioxfur	Tray1:12	1.000000
13	U140328B_13	SAMP 10260486015 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray1:13	1.000000
14	U140328B_14	SAMP 10260486016 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray1:14	1.000000
15	U140328B_15	SAMP 10260486017 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray1:15	1.000000
16	U140328B_16	SAMP 10260486018 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray1:16	1.000000
17	U140328B_17	SAMP 10260486019 - BAL PASI-WI	1613B	dioxfur	dioxfur	Tray1:17	1.000000
18	U140328B_18	SAMP 10260950001 - BAL [redacted] ~~12 hr?~~ OK BAC 3/29	1613B	dioxfur	dioxfur	Tray1:18	1.000000
19	U140328B_19	CAL CS3/CPM-7604-301 - BAL	82901613B	dioxfur	dioxfur	Tray1:1	1.000000

pass all

8290 end 1613 pass

Swm 3/31/14

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	MAK111C		
Lab Sample ID	10260486001		
Filename	P140321B_09		
Injected By	BAL		
Total Amount Extracted	21.5 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 10:00
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/21/2014 21:03

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	-----	0.046	BJ	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	0.600	-----	0.046	BJ	2,3,7,8-TCDD-13C	2.00	81
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	-----	0.051		2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	-----	0.051		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.061		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.040		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.051		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.060		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.060		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.048		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	0.038		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	0.040				
1,2,3,7,8,9-HxCDF	ND	-----	0.052		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.065		2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	-----	0.059				
1,2,3,7,8,9-HxCDD	ND	-----	0.071				
Total HxCDD	ND	-----	0.065				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.041		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.061		Equivalence: 0.0081 ng/Kg		
Total HpCDF	ND	-----	0.051		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.140	-----	0.076	J			
Total HpCDD	0.140	-----	0.076	J			
OCDF	ND	-----	0.110				
OCDD	0.400	-----	0.180	J			

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

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

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

REPORT OF LABORATORY ANALYSIS

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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	MAK113C		
Lab Sample ID	10260486002		
Filename	P140321B_10		
Injected By	BAL		
Total Amount Extracted	20.1 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 11:20
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/21/2014 21:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.091	-----	0.028	BJ	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	0.540	-----	0.028	BJ	2,3,7,8-TCDD-13C	2.00	96
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.042		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.120	-----	0.042	J	1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	-----	0.041		1,2,3,6,7,8-HxCDF-13C	2.00	105
2,3,4,7,8-PeCDF	ND	-----	0.031		2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	ND	-----	0.036		1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	0.045		1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	ND	-----	0.045		1,2,3,4,6,7,8-HpCDF-13C	2.00	83
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	ND	-----	0.040		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.034		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	0.037				
1,2,3,7,8,9-HxCDF	ND	-----	0.043		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	-----	0.052		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	-----	0.049	0.048	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	ND	-----	0.050				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.034		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.048		Equivalence: 0.017 ng/Kg		
Total HpCDF	ND	-----	0.041		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.320	-----	0.077	J			
Total HpCDD	0.320	-----	0.077	J			
OCDF	ND	-----	0.100				
OCDD	0.950	-----	0.140	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
I = Interference present

REPORT OF LABORATORY ANALYSIS

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

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK114C		
Lab Sample ID	10260486003		
Filename	P140321B_11		
Injected By	BAL		
Total Amount Extracted	20.1 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 11:55
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/21/2014 22:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.056	-----	0.044	BJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.580	-----	0.044	BJ	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.048		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	-----	0.048		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.045		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.036		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.040		1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.071		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.071		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.042		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.037		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.039				
1,2,3,7,8,9-HxCDF	ND	-----	0.048		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	-----	0.050		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.052				
1,2,3,7,8,9-HxCDD	ND	-----	0.064				
Total HxCDD	ND	-----	0.055				
1,2,3,4,6,7,8-HpCDF	0.075	-----	0.046	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.067		Equivalence: 0.0099 ng/Kg		
Total HpCDF	0.075	-----	0.056	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.340	-----	0.096	J			
Total HpCDD	0.340	-----	0.096	J			
OCDF	ND	-----	0.110				
OCDD	1.300	-----	0.210	J			

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

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

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

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK115C		
Lab Sample ID	10260486004		
Filename	P140321B_12		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 13:00
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/21/2014 23:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.054	0.042	IJ	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	0.480	-----	0.042	BJ	2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.053		2,3,4,7,8-PeCDF-13C	2.00	68
Total TCDD	0.130	-----	0.053	J	1,2,3,7,8-PeCDD-13C	2.00	72
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.047		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.039		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.043		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.064		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.064		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	-----	0.033		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.026		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.030				
1,2,3,7,8,9-HxCDF	ND	-----	0.041		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.032		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.051		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.054				
1,2,3,7,8,9-HxCDD	0.058	-----	0.047	J			
Total HxCDD	0.058	-----	0.051	J			
1,2,3,4,6,7,8-HpCDF	-----	0.041	0.039	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.050		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.044		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.370	0.068	IJ			
Total HpCDD	ND	-----	0.068				
OCDF	0.110	-----	0.100	J			
OCDD	1.700	-----	0.140	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK116C		
Lab Sample ID	10260486005		
Filename	P140321B_13		
Injected By	BAL		
Total Amount Extracted	20.1 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 13:30
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/21/2014 23:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.079	-----	0.051	BJ	2,3,7,8-TCDF-13C	2.00	88
Total TCDF	0.690	-----	0.051	BJ	2,3,7,8-TCDD-13C	2.00	97
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.065		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	0.065		1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	-----	0.053		1,2,3,6,7,8-HxCDF-13C	2.00	105
2,3,4,7,8-PeCDF	ND	-----	0.042		2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	ND	-----	0.048		1,2,3,7,8,9-HxCDF-13C	2.00	99
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	0.054		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.054		1,2,3,4,6,7,8-HpCDF-13C	2.00	86
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	0.049		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	72
2,3,4,6,7,8-HxCDF	ND	-----	0.040				
1,2,3,7,8,9-HxCDF	ND	-----	0.062		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.048		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	94
1,2,3,6,7,8-HxCDD	0.088	-----	0.083	J			
1,2,3,7,8,9-HxCDD	0.071	-----	0.066	J			
Total HxCDD	0.160	-----	0.076	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.050		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.072		Equivalence: 0.030 ng/Kg		
Total HpCDF	ND	-----	0.061		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.550	-----	0.080	J			
Total HpCDD	0.550	-----	0.080	J			
OCDF	ND	-----	0.130				
OCDD	-----	1.6	0.120	IJ			

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

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK117C		
Lab Sample ID	10260486006		
Filename	P140321B_14		
Injected By	BAL		
Total Amount Extracted	20.6 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 14:35
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 00:37

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	0.042	IJ	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	0.059	-----	0.042	BJ	2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	-----	0.057		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	0.087	-----	0.057	J	1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	0.066		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	0.046		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.056		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.053		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.053		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.043		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	0.037				
1,2,3,7,8,9-HxCDF	ND	-----	0.059		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.060		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	0.087	-----	0.071	J			
1,2,3,7,8,9-HxCDD	ND	-----	0.058				
Total HxCDD	0.087	-----	0.063	J			
1,2,3,4,6,7,8-HpCDF	-----	0.049	0.044	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.057		Equivalence: 0.020 ng/Kg		
Total HpCDF	ND	-----	0.050		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.510	-----	0.063	J			
Total HpCDD	0.510	-----	0.063	J			
OCDF	ND	-----	0.110				
OCDD	1.700	-----	0.150	J			

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

ND = Not Detected
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NC = Not Calculated

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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK118C		
Lab Sample ID	10260486007		
Filename	P140321B_15		
Injected By	BAL		
Total Amount Extracted	21.0 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 16:05
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 01:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.066	0.040	IJ	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.580	-----	0.040	BJ	2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.034		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	-----	0.034		1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	0.047		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.035		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.041		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.045		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.045		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.032		1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	-----	0.035		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.037				
1,2,3,7,8,9-HxCDF	ND	-----	0.047		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	0.055	-----	0.046	J	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	-----	0.099	0.044	IJ			
1,2,3,7,8,9-HxCDD	0.084	-----	0.039	J			
Total HxCDD	0.300	-----	0.043	J			
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: 0.038 ng/Kg		
Total HpCDF	ND	-----	0.038		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.750	-----	0.076	J			
Total HpCDD	0.840	-----	0.076	J			
OCDF	ND	-----	0.096				
OCDD	2.300	-----	0.140	J			

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EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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NC = Not Calculated

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

Client - PASI Wisconsin

Client's Sample ID	MAK120C		
Lab Sample ID	10260486008		
Filename	P140321B_16		
Injected By	BAL		
Total Amount Extracted	21.7 g	Matrix	Sea Cucumb
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/11/2014 10:30
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140321B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 02:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.085	-----	0.051	BJ	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	0.210	-----	0.051	BJ	2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	-----	0.047		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	0.100	-----	0.047	J	1,2,3,7,8-PeCDD-13C	2.00	69
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.054		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	0.039		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.042		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.042		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.047		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.045		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.046				
1,2,3,7,8,9-HxCDF	ND	-----	0.053		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.048		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.063	-----	0.042	J	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	-----	0.100	0.056	IJ			
1,2,3,7,8,9-HxCDD	-----	0.058	0.057	IJ			
Total HxCDD	0.120	-----	0.052	J			
1,2,3,4,6,7,8-HpCDF	0.067	-----	0.038	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.046		Equivalence: 0.038 ng/Kg		
Total HpCDF	0.067	-----	0.042	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.670	0.097	IJ			
Total HpCDD	0.130	-----	0.097	J			
OCDF	0.120	-----	0.080	J			
OCDD	2.200	-----	0.130	J			

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NC = Not Calculated

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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	MAK120L		
Lab Sample ID	10260486009		
Filename	P140322B_04		
Injected By	BAL		
Total Amount Extracted	20.7 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 10:40
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 14:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.094	0.074	PJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	-----	0.074		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.079		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	-----	0.079		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	0.079		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.055		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.067		1,2,3,7,8,9-HxCDF-13C	2.00	89
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	-----	0.094		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.094		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.056		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	-----	0.042		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.044				
1,2,3,7,8,9-HxCDF	ND	-----	0.054		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.11	-----	0.049	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.086		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.094				
1,2,3,7,8,9-HxCDD	ND	-----	0.065				
Total HxCDD	ND	-----	0.082				
1,2,3,4,6,7,8-HpCDF	-----	0.099	0.045	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.083		Equivalence: 0.013 ng/Kg		
Total HpCDF	0.14	-----	0.064	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.25	-----	0.094	J			
Total HpCDD	0.55	-----	0.094	J			
OCDF	0.24	-----	0.160	J			
OCDD	2.40	-----	0.160	J			

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NC = Not Calculated

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P = PCDE Interference
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	MAK121L		
Lab Sample ID	10260486010		
Filename	P140322B_05		
Injected By	BAL		
Total Amount Extracted	21.0 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 11:30
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 15:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.110		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.27	-----	0.110	BJ	2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	0.14	-----	0.058	J	1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.081		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.068		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	0.21	-----	0.074	J	1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.096		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.096		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.049		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.054		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.056				
1,2,3,7,8,9-HxCDF	ND	-----	0.070		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.057		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.089		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.081				
1,2,3,7,8,9-HxCDD	ND	-----	0.089				
Total HxCDD	ND	-----	0.086				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.061		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.081		Equivalence: 0.0016 ng/Kg		
Total HpCDF	ND	-----	0.071		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.15	-----	0.092	J			
Total HpCDD	0.15	-----	0.092	J			
OCDF	ND	-----	0.150				
OCDD	1.10	-----	0.230	J			

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B = Less than 10x higher than method blank level

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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK122L		
Lab Sample ID	10260486011		
Filename	P140322B_06		
Injected By	BAL		
Total Amount Extracted	21.0 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 14:05
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 15:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.084	0.080	PJ	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.080		2,3,7,8-TCDD-13C	2.00	81
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	0.074		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	0.17	-----	0.074	J	1,2,3,7,8-PeCDD-13C	2.00	72
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	0.055		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.050		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.052		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.067		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.067		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	-----	0.047		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	0.035		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.042				
1,2,3,7,8,9-HxCDF	ND	-----	0.055		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.086		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	0.075				
1,2,3,7,8,9-HxCDD	ND	-----	0.083				
Total HxCDD	ND	-----	0.081				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.045		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.060		Equivalence: 0.0085 ng/Kg		
Total HpCDF	ND	-----	0.052		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.092				
Total HpCDD	ND	-----	0.092				
OCDF	ND	-----	0.130				
OCDD	-----	0.620	0.210	IJ			

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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK123L		
Lab Sample ID	10260486012		
Filename	P140322B_07		
Injected By	BAL		
Total Amount Extracted	20.5 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 14:55
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 16:27

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.056		2,3,7,8-TCDF-13C	2.00	86
Total TCDF	0.26	-----	0.056	BJ	2,3,7,8-TCDD-13C	2.00	97
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.056		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.056		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	101
1,2,3,7,8-PeCDF	ND	-----	0.048		1,2,3,6,7,8-HxCDF-13C	2.00	104
2,3,4,7,8-PeCDF	ND	-----	0.041		2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDF-13C	2.00	102
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.056		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	-----	0.056		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	-----	0.034		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	0.029		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	0.029				
1,2,3,7,8,9-HxCDF	ND	-----	0.038		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	-----	0.057		2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	ND	-----	0.073				
1,2,3,7,8,9-HxCDD	ND	-----	0.057				
Total HxCDD	ND	-----	0.062				
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	-----	0.042		Equivalence: 0.0010 ng/Kg		
Total HpCDF	ND	-----	0.039		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.094	0.061	IJ			
Total HpCDD	0.11	-----	0.061	J			
OCDF	ND	-----	0.110				
OCDD	0.97	-----	0.170	J			

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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	MAK124L		
Lab Sample ID	10260486013		
Filename	P140322B_08		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 15:40
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 17:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.087		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.087		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.048		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	0.13	-----	0.048	J	1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	-----	0.049		1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	-----	0.048		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.048		1,2,3,7,8,9-HxCDF-13C	2.00	94
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	0.050		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.050		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	ND	-----	0.033		1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	-----	0.034		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	0.038				
1,2,3,7,8,9-HxCDF	ND	-----	0.041		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.10	-----	0.037	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.045		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	0.062				
1,2,3,7,8,9-HxCDD	ND	-----	0.064				
Total HxCDD	ND	-----	0.057				
1,2,3,4,6,7,8-HpCDF	0.16	-----	0.054	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.079		Equivalence: 0.0087 ng/Kg		
Total HpCDF	0.46	-----	0.067	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.63	-----	0.095	J			
Total HpCDD	1.20	-----	0.095	J			
OCDF	0.49	-----	0.150	J			
OCDD	6.90	-----	0.160				

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NA = Not Applicable
NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK126L		
Lab Sample ID	10260486014		
Filename	P140322B_09		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 16:15
ICAL ID	P130624	Received	03/14/2014 10:40
CCal Filename(s)	P140322B_01	Extracted	03/18/2014 21:15
Method Blank ID	BLANK-39710	Analyzed	03/22/2014 17:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.072		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.35	-----	0.072	BJ	2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.072		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.11	-----	0.072	J	1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	ND	-----	0.069		1,2,3,6,7,8-HxCDF-13C	2.00	100
2,3,4,7,8-PeCDF	ND	-----	0.053		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	-----	0.061		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.064		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.064		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	89
1,2,3,4,7,8-HxCDF	ND	-----	0.050		1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	-----	0.045		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	0.044				
1,2,3,7,8,9-HxCDF	ND	-----	0.059		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.10	-----	0.050	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.069		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.077				
1,2,3,7,8,9-HxCDD	ND	-----	0.069				
Total HxCDD	0.20	-----	0.071	J			
1,2,3,4,6,7,8-HpCDF	0.19	-----	0.049	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.085		Equivalence: 0.0084 ng/Kg		
Total HpCDF	0.19	-----	0.067	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.58	-----	0.120	J			
Total HpCDD	1.20	-----	0.120	J			
OCDF	0.54	-----	0.140	J			
OCDD	6.90	-----	0.170				

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

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

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

REPORT OF LABORATORY ANALYSIS

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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	MAK127L		
Lab Sample ID	10260486015		
Filename	U140328B_13		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/11/2014 13:04
ICAL ID	U140322	Received	03/14/2014 10:40
CCal Filename(s)	U140328B_02	Extracted	03/24/2014 21:30
Method Blank ID	BLANK-39803	Analyzed	03/29/2014 02:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.070	0.045	IJ	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.045		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	0.028		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	0.210	-----	0.028	BJ	1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	0.023		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	-----	0.029	0.017	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	0.020		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	0.021		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.021		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.024		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	-----	0.023		OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	ND	-----	0.020				
1,2,3,7,8,9-HxCDF	ND	-----	0.030		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	-----	0.034		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	0.031				
1,2,3,7,8,9-HxCDD	ND	-----	0.030				
Total HxCDD	ND	-----	0.031				
1,2,3,4,6,7,8-HpCDF	-----	0.048	0.024	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.048	-----	0.035	J	Equivalence: 0.024 ng/Kg		
Total HpCDF	0.048	-----	0.030	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.110	-----	0.022	J			
Total HpCDD	0.260	-----	0.022	J			
OCDF	0.200	-----	0.055	J			
OCDD	0.730	-----	0.100	BJ			

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

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK128L		
Lab Sample ID	10260486016		
Filename	U140328B_14		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/11/2014 14:15
ICAL ID	U140322	Received	03/14/2014 10:40
CCal Filename(s)	U140328B_02	Extracted	03/24/2014 21:30
Method Blank ID	BLANK-39803	Analyzed	03/29/2014 02:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.061	0.041	IJ	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	0.041		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.020		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	0.130	-----	0.020	BJ	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	-----	0.022		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.014		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.018		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	0.017		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.017		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	92
1,2,3,4,7,8-HxCDF	ND	-----	0.020		1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	-----	0.017		OCDD-13C	4.00	102
2,3,4,6,7,8-HxCDF	ND	-----	0.015				
1,2,3,7,8,9-HxCDF	ND	-----	0.019		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.018		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.026		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.024				
1,2,3,7,8,9-HxCDD	ND	-----	0.023				
Total HxCDD	ND	-----	0.024				
1,2,3,4,6,7,8-HpCDF	0.061	-----	0.018	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.019		Equivalence: 0.0076 ng/Kg		
Total HpCDF	0.061	-----	0.019	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.081	-----	0.019	J			
Total HpCDD	0.190	-----	0.019	J			
OCDF	-----	0.082	0.042	IJ			
OCDD	0.440	-----	0.066	BJ			

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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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK116L		
Lab Sample ID	10260486017		
Filename	U140328B_15		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 08:20
ICAL ID	U140322	Received	03/14/2014 10:40
CCal Filename(s)	U140328B_02	Extracted	03/24/2014 21:30
Method Blank ID	BLANK-39803	Analyzed	03/29/2014 03:40

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.094	-----	0.032	BJ	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	0.160	-----	0.032	BJ	2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	-----	0.030		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	0.030		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	ND	-----	0.024		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	-----	0.017	0.016	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	-----	0.020		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	0.014		1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	-----	0.014		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	-----	0.013		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	-----	0.013	0.012	IJ	OCDD-13C	4.00	91
2,3,4,6,7,8-HxCDF	-----	0.018	0.012	IJ			
1,2,3,7,8,9-HxCDF	ND	-----	0.012		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.012		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.016		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.020				
1,2,3,7,8,9-HxCDD	ND	-----	0.016				
Total HxCDD	ND	-----	0.018				
1,2,3,4,6,7,8-HpCDF	0.061	-----	0.015	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.019		Equivalence: 0.025 ng/Kg		
Total HpCDF	0.061	-----	0.017	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.300	-----	0.023	J			
Total HpCDD	0.870	-----	0.023	J			
OCDF	0.170	-----	0.041	J			
OCDD	6.700	-----	0.036				

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

ND = Not Detected
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NC = Not Calculated

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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	MAK117L		
Lab Sample ID	10260486018		
Filename	U140328B_16		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 08:35
ICAL ID	U140322	Received	03/14/2014 10:40
CCal Filename(s)	U140328B_02	Extracted	03/24/2014 21:30
Method Blank ID	BLANK-39803	Analyzed	03/29/2014 04:25

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.088	-----	0.030	BJ	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.180	-----	0.030	BJ	2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.024		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	0.130	-----	0.024	BJ	1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.015		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.011		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	0.013		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.014		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.014		1,2,3,4,6,7,8-HpCDF-13C	2.00	88
					1,2,3,4,7,8,9-HpCDF-13C	2.00	103
1,2,3,4,7,8-HxCDF	ND	-----	0.012		1,2,3,4,6,7,8-HpCDD-13C	2.00	98
1,2,3,6,7,8-HxCDF	-----	0.018	0.011	IJ	OCDD-13C	4.00	113
2,3,4,6,7,8-HxCDF	ND	-----	0.010				
1,2,3,7,8,9-HxCDF	ND	-----	0.011		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.011		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.018		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	-----	0.024	0.021	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.018				
Total HxCDD	0.023	-----	0.019	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.065	0.019	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.020		Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.019		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.100	-----	0.015	J			
Total HpCDD	0.240	-----	0.015	J			
OCDF	-----	0.085	0.028	IJ			
OCDD	0.680	-----	0.026	BJ			

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

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J = Estimated value
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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	MAK118L		
Lab Sample ID	10260486019		
Filename	U140328B_17		
Injected By	BAL		
Total Amount Extracted	20.8 g	Matrix	Limu
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/31/2014 09:10
ICAL ID	U140322	Received	03/14/2014 10:40
CCal Filename(s)	U140328B_02	Extracted	03/24/2014 21:30
Method Blank ID	BLANK-39803	Analyzed	03/29/2014 05:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.095	-----	0.0360	BJ	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	0.450	-----	0.0360	BJ	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.0300		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	0.160	-----	0.0300	BJ	1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.0220		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	0.019	-----	0.0150	BJ	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	0.019	-----	0.0190	BJ	1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	0.0160		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.0160		1,2,3,4,6,7,8-HpCDF-13C	2.00	87
					1,2,3,4,7,8,9-HpCDF-13C	2.00	102
1,2,3,4,7,8-HxCDF	-----	0.027	0.0110	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	98
1,2,3,6,7,8-HxCDF	-----	0.012	0.0110	IJ	OCDD-13C	4.00	113
2,3,4,6,7,8-HxCDF	ND	-----	0.0097				
1,2,3,7,8,9-HxCDF	ND	-----	0.0140		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.0110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.0150		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	-----	0.018	0.0170	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.0160				
Total HxCDD	ND	-----	0.0160				
1,2,3,4,6,7,8-HpCDF	-----	0.035	0.0120	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.0150		Equivalence: 0.026 ng/Kg		
Total HpCDF	ND	-----	0.0130		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.052	0.0160	IJ			
Total HpCDD	0.092	-----	0.0160	J			
OCDF	-----	0.073	0.0360	IJ			
OCDD	0.380	-----	0.0270	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

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

QC and Calibration Results Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-39710	Matrix	Tissue
Filename	P140321B_08	Dilution	NA
Total Amount Extracted	21.2 g	Extracted	03/18/2014 21:15
ICAL ID	P130624	Analyzed	03/21/2014 20:20
CCal Filename(s)	P140321B_01	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.066	-----	0.065	J	2,3,7,8-TCDF-13C	2.00	41
Total TCDF	0.130	-----	0.065	J	2,3,7,8-TCDD-13C	2.00	46
					1,2,3,7,8-PeCDF-13C	2.00	37
2,3,7,8-TCDD	ND	-----	0.094		2,3,4,7,8-PeCDF-13C	2.00	35
Total TCDD	ND	-----	0.094		1,2,3,7,8-PeCDD-13C	2.00	37
					1,2,3,4,7,8-HxCDF-13C	2.00	48
1,2,3,7,8-PeCDF	ND	-----	0.110		1,2,3,6,7,8-HxCDF-13C	2.00	51
2,3,4,7,8-PeCDF	ND	-----	0.079		2,3,4,6,7,8-HxCDF-13C	2.00	47
Total PeCDF	ND	-----	0.092		1,2,3,7,8,9-HxCDF-13C	2.00	48
					1,2,3,4,7,8-HxCDD-13C	2.00	43
1,2,3,7,8-PeCDD	ND	-----	0.100		1,2,3,6,7,8-HxCDD-13C	2.00	42
Total PeCDD	ND	-----	0.100		1,2,3,4,6,7,8-HpCDF-13C	2.00	40
					1,2,3,4,7,8,9-HpCDF-13C	2.00	40
1,2,3,4,7,8-HxCDF	ND	-----	0.064		1,2,3,4,6,7,8-HpCDD-13C	2.00	40
1,2,3,6,7,8-HxCDF	ND	-----	0.068		OCDD-13C	4.00	33
2,3,4,6,7,8-HxCDF	ND	-----	0.070				
1,2,3,7,8,9-HxCDF	ND	-----	0.074		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.069		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.090		2,3,7,8-TCDD-37Cl4	0.20	44
1,2,3,6,7,8-HxCDD	ND	-----	0.095				
1,2,3,7,8,9-HxCDD	ND	-----	0.085				
Total HxCDD	ND	-----	0.090				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.072		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.074		Equivalence: 0.0079 ng/Kg		
Total HpCDF	ND	-----	0.073		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.12	0.097	IJ			
Total HpCDD	ND	-----	0.097				
OCDF	ND	-----	0.200				
OCDD	-----	0.29	0.170	IJ			

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

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

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Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-39803	Matrix	Tissue
Filename	U140328B_12	Dilution	NA
Total Amount Extracted	20.0 g	Extracted	03/24/2014 21:30
ICAL ID	U140322	Analyzed	03/29/2014 01:26
CCal Filename(s)	U140328B_02	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.049	-----	0.0160	J	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	0.210	-----	0.0160	J	2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.0150		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	0.270	-----	0.0150	J	1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	-----	0.015	0.0110	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	0.017	-----	0.0087	J	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	0.042	-----	0.0098	J	1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	-----	0.0160		1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	-----	0.0160		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.0110		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	-----	0.012	0.0110	IJ	OCDD-13C	4.00	81
2,3,4,6,7,8-HxCDF	ND	-----	0.0100				
1,2,3,7,8,9-HxCDF	ND	-----	0.0130		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.0110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.024	-----	0.0180	J	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.0190				
1,2,3,7,8,9-HxCDD	ND	-----	0.0160				
Total HxCDD	0.024	-----	0.0180	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.0220		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.0260		Equivalence: 0.018 ng/Kg		
Total HpCDF	ND	-----	0.0240		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.046	0.0150	IJ			
Total HpCDD	ND	-----	0.0150				
OCDF	-----	0.059	0.0390	IJ			
OCDD	0.180	-----	0.0480	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 Laboratory Control Spike Results

Lab Sample ID	LCS-39711		
Filename	P140321B_06	Matrix	Tissue
Total Amount Extracted	22.0 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename	P140321B_01	Analyzed	03/21/2014 18:55
Method Blank ID	BLANK-39710	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	20	23	15.0	31.6	113
2,3,7,8-TCDD	20	19	13.4	31.6	96
1,2,3,7,8-PeCDF	100	110	80.0	134.0	112
2,3,4,7,8-PeCDF	100	110	68.0	160.0	113
1,2,3,7,8-PeCDD	100	94	70.0	142.0	94
1,2,3,4,7,8-HxCDF	100	110	72.0	134.0	113
1,2,3,6,7,8-HxCDF	100	110	84.0	130.0	111
2,3,4,6,7,8-HxCDF	100	120	70.0	156.0	115
1,2,3,7,8,9-HxCDF	100	120	78.0	130.0	115
1,2,3,4,7,8-HxCDD	100	110	70.0	164.0	111
1,2,3,6,7,8-HxCDD	100	120	76.0	134.0	122
1,2,3,7,8,9-HxCDD	100	120	64.0	162.0	119
1,2,3,4,6,7,8-HpCDF	100	110	82.0	122.0	112
1,2,3,4,7,8,9-HpCDF	100	100	78.0	138.0	105
1,2,3,4,6,7,8-HpCDD	100	100	70.0	140.0	104
OCDF	200	250	126.0	340.0	124
OCDD	200	230	156.0	288.0	113
2,3,7,8-TCDD-37Cl4	10	9.2	3.1	19.1	92
2,3,7,8-TCDF-13C	100	82	22.0	152.0	82
2,3,7,8-TCDD-13C	100	91	20.0	175.0	91
1,2,3,7,8-PeCDF-13C	100	80	21.0	192.0	80
2,3,4,7,8-PeCDF-13C	100	76	13.0	328.0	76
1,2,3,7,8-PeCDD-13C	100	83	21.0	227.0	83
1,2,3,4,7,8-HxCDF-13C	100	93	19.0	202.0	93
1,2,3,6,7,8-HxCDF-13C	100	95	21.0	159.0	95
2,3,4,6,7,8-HxCDF-13C	100	90	22.0	176.0	90
1,2,3,7,8,9-HxCDF-13C	100	91	17.0	205.0	91
1,2,3,4,7,8-HxCDD-13C	100	87	21.0	193.0	87
1,2,3,6,7,8-HxCDD-13C	100	79	25.0	163.0	79
1,2,3,4,6,7,8-HpCDF-13C	100	81	21.0	158.0	81
1,2,3,4,7,8,9-HpCDF-13C	100	80	20.0	186.0	80
1,2,3,4,6,7,8-HpCDD-13C	100	82	26.0	166.0	82
OCDD-13C	200	140	26.0	397.0	69

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-39804		
Filename	U140328B_05	Matrix	Tissue
Total Amount Extracted	20.3 g	Dilution	NA
ICAL ID	U140322	Extracted	03/24/2014 21:30
CCal Filename	U140328B_02	Analyzed	03/28/2014 20:12
Method Blank ID	BLANK-39803	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	20	18	15.0	31.6	91
2,3,7,8-TCDD	20	18	13.4	31.6	88
1,2,3,7,8-PeCDF	100	89	80.0	134.0	89
2,3,4,7,8-PeCDF	100	89	68.0	160.0	89
1,2,3,7,8-PeCDD	100	80	70.0	142.0	80
1,2,3,4,7,8-HxCDF	100	92	72.0	134.0	92
1,2,3,6,7,8-HxCDF	100	87	84.0	130.0	87
2,3,4,6,7,8-HxCDF	100	88	70.0	156.0	88
1,2,3,7,8,9-HxCDF	100	93	78.0	130.0	93
1,2,3,4,7,8-HxCDD	100	94	70.0	164.0	94
1,2,3,6,7,8-HxCDD	100	100	76.0	134.0	101
1,2,3,7,8,9-HxCDD	100	98	64.0	162.0	98
1,2,3,4,6,7,8-HpCDF	100	100	82.0	122.0	100
1,2,3,4,7,8,9-HpCDF	100	93	78.0	138.0	93
1,2,3,4,6,7,8-HpCDD	100	94	70.0	140.0	94
OCDF	200	180	126.0	340.0	92
OCDD	200	200	156.0	288.0	100
2,3,7,8-TCDD-37Cl4	10	9.1	3.1	19.1	91
2,3,7,8-TCDF-13C	100	79	22.0	152.0	79
2,3,7,8-TCDD-13C	100	90	20.0	175.0	90
1,2,3,7,8-PeCDF-13C	100	81	21.0	192.0	81
2,3,4,7,8-PeCDF-13C	100	80	13.0	328.0	80
1,2,3,7,8-PeCDD-13C	100	97	21.0	227.0	97
1,2,3,4,7,8-HxCDF-13C	100	79	19.0	202.0	79
1,2,3,6,7,8-HxCDF-13C	100	81	21.0	159.0	81
2,3,4,6,7,8-HxCDF-13C	100	81	22.0	176.0	81
1,2,3,7,8,9-HxCDF-13C	100	79	17.0	205.0	79
1,2,3,4,7,8-HxCDD-13C	100	86	21.0	193.0	86
1,2,3,6,7,8-HxCDD-13C	100	76	25.0	163.0	76
1,2,3,4,6,7,8-HpCDF-13C	100	79	21.0	158.0	79
1,2,3,4,7,8,9-HpCDF-13C	100	84	20.0	186.0	84
1,2,3,4,6,7,8-HpCDD-13C	100	86	26.0	166.0	86
OCDD-13C	200	180	26.0	397.0	89

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-39805		
Filename	U140328B_06	Matrix	Tissue
Total Amount Extracted	21.3 g	Dilution	NA
ICAL ID	U140322	Extracted	03/24/2014 21:30
CCal Filename	U140328B_02	Analyzed	03/28/2014 20:57
Method Blank ID	BLANK-39803	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	20	20	15.0	31.6	100
2,3,7,8-TCDD	20	19	13.4	31.6	95
1,2,3,7,8-PeCDF	100	97	80.0	134.0	97
2,3,4,7,8-PeCDF	100	99	68.0	160.0	99
1,2,3,7,8-PeCDD	100	89	70.0	142.0	89
1,2,3,4,7,8-HxCDF	100	100	72.0	134.0	100
1,2,3,6,7,8-HxCDF	100	97	84.0	130.0	97
2,3,4,6,7,8-HxCDF	100	97	70.0	156.0	97
1,2,3,7,8,9-HxCDF	100	100	78.0	130.0	102
1,2,3,4,7,8-HxCDD	100	110	70.0	164.0	106
1,2,3,6,7,8-HxCDD	100	110	76.0	134.0	112
1,2,3,7,8,9-HxCDD	100	110	64.0	162.0	110
1,2,3,4,6,7,8-HpCDF	100	110	82.0	122.0	108
1,2,3,4,7,8,9-HpCDF	100	100	78.0	138.0	105
1,2,3,4,6,7,8-HpCDD	100	110	70.0	140.0	106
OCDF	200	210	126.0	340.0	103
OCDD	200	220	156.0	288.0	112
2,3,7,8-TCDD-37Cl4	10	8.9	3.1	19.1	89
2,3,7,8-TCDF-13C	100	73	22.0	152.0	73
2,3,7,8-TCDD-13C	100	84	20.0	175.0	84
1,2,3,7,8-PeCDF-13C	100	79	21.0	192.0	79
2,3,4,7,8-PeCDF-13C	100	77	13.0	328.0	77
1,2,3,7,8-PeCDD-13C	100	93	21.0	227.0	93
1,2,3,4,7,8-HxCDF-13C	100	75	19.0	202.0	75
1,2,3,6,7,8-HxCDF-13C	100	74	21.0	159.0	74
2,3,4,6,7,8-HxCDF-13C	100	74	22.0	176.0	74
1,2,3,7,8,9-HxCDF-13C	100	73	17.0	205.0	73
1,2,3,4,7,8-HxCDD-13C	100	78	21.0	193.0	78
1,2,3,6,7,8-HxCDD-13C	100	70	25.0	163.0	70
1,2,3,4,6,7,8-HpCDF-13C	100	71	21.0	158.0	71
1,2,3,4,7,8,9-HpCDF-13C	100	73	20.0	186.0	73
1,2,3,4,6,7,8-HpCDD-13C	100	75	26.0	166.0	75
OCDD-13C	200	160	26.0	397.0	80

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-39804
Spike 1 Filename U140328B_05

Spike 2 ID LCSD-39805
Spike 2 Filename U140328B_06

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	91	100	9.4
2,3,7,8-TCDD	88	95	7.7
1,2,3,7,8-PeCDF	89	97	8.6
2,3,4,7,8-PeCDF	89	99	10.6
1,2,3,7,8-PeCDD	80	89	10.7
1,2,3,4,7,8-HxCDF	92	100	8.3
1,2,3,6,7,8-HxCDF	87	97	10.9
2,3,4,6,7,8-HxCDF	88	97	9.7
1,2,3,7,8,9-HxCDF	93	102	9.2
1,2,3,4,7,8-HxCDD	94	106	12.0
1,2,3,6,7,8-HxCDD	101	112	10.3
1,2,3,7,8,9-HxCDD	98	110	11.5
1,2,3,4,6,7,8-HpCDF	100	108	7.7
1,2,3,4,7,8,9-HpCDF	93	105	12.1
1,2,3,4,6,7,8-HpCDD	94	106	12.0
OCDF	92	103	11.3
OCDD	100	112	11.3

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

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK114C-MS		
Lab Sample ID	10260486003-MS		
Filename	P140322B_10	Matrix	Sea Cucumb
Total Amount Extracted	20.5 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 18:36
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.40	0.45	112	2,3,7,8-TCDF-13C	2.00	76
Total TCDF				2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	0.40	0.39	98	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	2.00	2.26	113	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	2.00	2.22	111	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	2.00	1.89	94	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	2.00	2.30	115	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	2.00	2.21	111	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	2.00	2.33	117			
1,2,3,7,8,9-HxCDF	2.00	2.27	113	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.28	114	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	2.00	2.43	122			
1,2,3,7,8,9-HxCDD	2.00	2.34	117			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.25	112			
1,2,3,4,7,8,9-HpCDF	2.00	2.10	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	2.06	103			
Total HpCDD						
OCDF	4.00	4.81	120			
OCDD	4.00	4.69	117			

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

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

REPORT OF LABORATORY ANALYSIS

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

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

Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK114C-MSD		
Lab Sample ID	10260486003-MSD		
Filename	P140322B_11	Matrix	Sea Cucumb
Total Amount Extracted	20.4 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 19:18
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.40	0.43	108	2,3,7,8-TCDF-13C	2.00	82
Total TCDF				2,3,7,8-TCDD-13C	2.00	92
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	0.40	0.36	91	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	2.00	2.14	107	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	2.00	2.13	107	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	94
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	2.00	1.79	90	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	82
				1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	2.00	2.16	108	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	2.00	2.09	104	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	2.00	2.22	111			
1,2,3,7,8,9-HxCDF	2.00	2.18	109	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.11	106	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	2.00	2.30	115			
1,2,3,7,8,9-HxCDD	2.00	2.29	114			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.08	104			
1,2,3,4,7,8,9-HpCDF	2.00	1.97	98			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	1.99	100			
Total HpCDD						
OCDF	4.00	4.56	114			
OCDD	4.00	4.53	113			

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

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

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Minneapolis, MN 55414

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

Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK120C-MS		
Lab Sample ID	10260486008-MS		
Filename	P140322B_12	Matrix	Sea Cucumb
Total Amount Extracted	20.1 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 20:01
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.40	0.43	107	2,3,7,8-TCDF-13C	2.00	77
Total TCDF				2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	0.40	0.37	92	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	76
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	2.00	2.14	107	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	2.00	2.15	107	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	87
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	2.00	1.82	91	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	78
				1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	2.00	2.21	111	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	2.00	2.11	105	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	2.00	2.19	109			
1,2,3,7,8,9-HxCDF	2.00	2.21	110	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.20	110	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	2.00	2.27	114			
1,2,3,7,8,9-HxCDD	2.00	2.26	113			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.11	106			
1,2,3,4,7,8,9-HpCDF	2.00	2.05	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	1.94	97			
Total HpCDD						
OCDF	4.00	4.49	112			
OCDD	4.00	4.41	110			

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Minneapolis, MN 55414

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Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK120C-MSD		
Lab Sample ID	10260486008-MSD		
Filename	P140322B_13	Matrix	Sea Cucumb
Total Amount Extracted	21.0 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 20:44
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.40	0.46	115	2,3,7,8-TCDF-13C	2.00	74
Total TCDF				2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	0.40	0.40	99	2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	72
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	2.00	2.31	116	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	2.00	2.32	116	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	2.00	1.93	96	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD				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	2.00	2.41	121	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	2.00	2.26	113	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	2.00	2.35	117			
1,2,3,7,8,9-HxCDF	2.00	2.39	120	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.40	120	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	2.00	2.50	125			
1,2,3,7,8,9-HxCDD	2.00	2.50	125			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.25	112			
1,2,3,4,7,8,9-HpCDF	2.00	2.18	109			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	2.14	107			
Total HpCDD						
OCDF	4.00	4.98	124			
OCDD	4.00	4.79	120			

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK121L-MS		
Lab Sample ID	10260486010-MS		
Filename	P140322B_14	Matrix	Limu
Total Amount Extracted	21.5 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 21:27
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.40	0.46	116	2,3,7,8-TCDF-13C	2.00	78
Total TCDF				2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	0.40	0.41	101	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	2.00	2.37	119	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	2.00	2.34	117	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	94
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	2.00	1.93	97	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	2.00	2.43	121	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	2.00	2.32	116	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	2.00	2.40	120			
1,2,3,7,8,9-HxCDF	2.00	2.39	119	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.30	115	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	2.00	2.56	128			
1,2,3,7,8,9-HxCDD	2.00	2.45	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.32	116			
1,2,3,4,7,8,9-HpCDF	2.00	2.18	109			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	2.13	107			
Total HpCDD						
OCDF	4.00	5.01	125			
OCDD	4.00	4.88	122			

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Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK121L-MSD		
Lab Sample ID	10260486010-MSD		
Filename	P140322B_15	Matrix	Limu
Total Amount Extracted	20.3 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 22:09
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.40	0.47	118	2,3,7,8-TCDF-13C	2.00	85
Total TCDF				2,3,7,8-TCDD-13C	2.00	96
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	0.40	0.39	98	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	101
1,2,3,7,8-PeCDF	2.00	2.35	117	1,2,3,6,7,8-HxCDF-13C	2.00	104
2,3,4,7,8-PeCDF	2.00	2.37	119	2,3,4,6,7,8-HxCDF-13C	2.00	99
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	2.00	1.94	97	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	83
				1,2,3,4,7,8,9-HpCDF-13C	2.00	88
1,2,3,4,7,8-HxCDF	2.00	2.39	120	1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	2.00	2.30	115	OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	2.00	2.37	119			
1,2,3,7,8,9-HxCDF	2.00	2.42	121	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.31	115	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	2.00	2.52	126			
1,2,3,7,8,9-HxCDD	2.00	2.41	121			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.34	117			
1,2,3,4,7,8,9-HpCDF	2.00	2.17	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	2.09	104			
Total HpCDD						
OCDF	4.00	5.07	127			
OCDD	4.00	4.81	120			

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK123L-MS		
Lab Sample ID	10260486012-MS		
Filename	P140322B_16	Matrix	Limu
Total Amount Extracted	21.0 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 22:52
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.40	0.44	109	2,3,7,8-TCDF-13C	2.00	75
Total TCDF				2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	0.40	0.37	93	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	2.00	2.19	109	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	2.00	2.16	108	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	88
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	2.00	1.83	92	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	2.00	2.30	115	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	2.00	2.14	107	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	2.00	2.22	111			
1,2,3,7,8,9-HxCDF	2.00	2.26	113	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.27	114	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	2.00	2.30	115			
1,2,3,7,8,9-HxCDD	2.00	2.29	115			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.21	111			
1,2,3,4,7,8,9-HpCDF	2.00	2.01	100			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	2.01	101			
Total HpCDD						
OCDF	4.00	4.71	118			
OCDD	4.00	4.45	111			

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Method 1613B Blank Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK123L-MSD		
Lab Sample ID	10260486012-MSD		
Filename	P140322B_17	Matrix	Limu
Total Amount Extracted	20.8 g	Dilution	NA
ICAL ID	P130624	Extracted	03/18/2014 21:15
CCal Filename(s)	P140322B_01	Analyzed	03/22/2014 23:35
Method Blank ID	BLANK-39710	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.40	0.45	112	2,3,7,8-TCDF-13C	2.00	82
Total TCDF				2,3,7,8-TCDD-13C	2.00	92
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	0.40	0.38	94	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	2.00	2.20	110	1,2,3,6,7,8-HxCDF-13C	2.00	100
2,3,4,7,8-PeCDF	2.00	2.26	113	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	95
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	2.00	1.85	92	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	83
				1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	2.00	2.31	115	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	2.00	2.19	109	OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	2.00	2.25	112			
1,2,3,7,8,9-HxCDF	2.00	2.28	114	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.00	2.23	111	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	2.00	2.38	119			
1,2,3,7,8,9-HxCDD	2.00	2.34	117			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	2.00	2.22	111			
1,2,3,4,7,8,9-HpCDF	2.00	2.06	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	2.00	1.96	98			
Total HpCDD						
OCDF	4.00	4.77	119			
OCDD	4.00	4.48	112			

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

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

REPORT OF LABORATORY ANALYSIS

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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK114C			Dry Weights	
Lab Sample ID	10260486003	Sample Filename	P140321B_11	Sample Amount	NA
MS ID	10260486003-MS	MS Filename	P140322B_10	MS Amount	NA
MSD ID	10260486003-MSD	MSD Filename	P140322B_11	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.056	0.40	0.45	0.43	3.8	112	108	3.8
2,3,7,8-TCDD	0.000	0.40	0.39	0.36	7.1	98	91	7.1
1,2,3,7,8-PeCDF	0.000	2.00	2.26	2.14	5.1	113	107	5.1
2,3,4,7,8-PeCDF	0.000	2.00	2.22	2.13	3.9	111	107	3.9
1,2,3,7,8-PeCDD	0.000	2.00	1.89	1.79	5.1	94	90	5.1
1,2,3,4,7,8-HxCDF	0.000	2.00	2.30	2.16	6.3	115	108	6.3
1,2,3,6,7,8-HxCDF	0.000	2.00	2.21	2.09	5.9	111	104	5.9
2,3,4,6,7,8-HxCDF	0.000	2.00	2.33	2.22	4.8	117	111	4.8
1,2,3,7,8,9-HxCDF	0.000	2.00	2.27	2.18	3.9	113	109	3.9
1,2,3,4,7,8-HxCDD	0.000	2.00	2.28	2.11	7.7	114	106	7.7
1,2,3,6,7,8-HxCDD	0.000	2.00	2.43	2.30	5.6	122	115	5.6
1,2,3,7,8,9-HxCDD	0.000	2.00	2.34	2.29	2.5	117	114	2.5
1,2,3,4,6,7,8-HpCDF	0.075	2.00	2.25	2.08	7.6	112	104	7.6
1,2,3,4,7,8,9-HpCDF	0.000	2.00	2.10	1.97	6.3	105	98	6.3
1,2,3,4,6,7,8-HpCDD	0.342	2.00	2.06	1.99	3.4	103	99	3.4
OCDF	0.000	4.00	4.81	4.56	5.3	120	114	5.3
OCDD	1.341	4.00	4.69	4.53	3.5	117	113	3.6

Definitions

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

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

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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK120C			Dry Weights	
Lab Sample ID	10260486008	Sample Filename	P140321B_16	Sample Amount	NA
MS ID	10260486008-MS	MS Filename	P140322B_12	MS Amount	NA
MSD ID	10260486008-MSD	MSD Filename	P140322B_13	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.085	0.40	0.43	0.46	7.6	106	115	7.6
2,3,7,8-TCDD	0.000	0.40	0.37	0.40	7.5	92	99	7.5
1,2,3,7,8-PeCDF	0.000	2.00	2.14	2.31	8.0	107	116	8.0
2,3,4,7,8-PeCDF	0.000	2.00	2.15	2.32	7.7	107	116	7.7
1,2,3,7,8-PeCDD	0.000	2.00	1.82	1.93	5.5	91	96	5.5
1,2,3,4,7,8-HxCDF	0.000	2.00	2.21	2.41	8.6	111	121	8.6
1,2,3,6,7,8-HxCDF	0.000	2.00	2.11	2.26	7.1	105	113	7.1
2,3,4,6,7,8-HxCDF	0.000	2.00	2.19	2.35	7.0	109	117	7.0
1,2,3,7,8,9-HxCDF	0.000	2.00	2.21	2.39	8.1	110	120	8.1
1,2,3,4,7,8-HxCDD	0.063	2.00	2.20	2.40	8.9	110	120	8.9
1,2,3,6,7,8-HxCDD	0.000	2.00	2.27	2.50	9.6	114	125	9.6
1,2,3,7,8,9-HxCDD	0.000	2.00	2.26	2.50	9.9	113	125	9.9
1,2,3,4,6,7,8-HpCDF	0.067	2.00	2.11	2.25	6.3	106	112	6.3
1,2,3,4,7,8,9-HpCDF	0.000	2.00	2.05	2.18	5.7	103	109	5.7
1,2,3,4,6,7,8-HpCDD	0.000	2.00	1.94	2.14	9.7	96	106	9.8
OCDF	0.116	4.00	4.49	4.98	10.2	112	124	10.2
OCDD	2.185	4.00	4.41	4.79	8.3	109	119	8.3

Definitions

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

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK121L			Dry Weights	
Lab Sample ID	10260486010	Sample Filename	P140322B_05	Sample Amount	NA
MS ID	10260486010-MS	MS Filename	P140322B_14	MS Amount	NA
MSD ID	10260486010-MSD	MSD Filename	P140322B_15	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.40	0.46	0.47	1.6	116	118	1.6
2,3,7,8-TCDD	0.000	0.40	0.41	0.39	3.6	101	98	3.6
1,2,3,7,8-PeCDF	0.000	2.00	2.37	2.35	1.0	119	117	1.0
2,3,4,7,8-PeCDF	0.000	2.00	2.34	2.37	1.3	117	119	1.3
1,2,3,7,8-PeCDD	0.000	2.00	1.93	1.94	0.3	97	97	0.3
1,2,3,4,7,8-HxCDF	0.000	2.00	2.43	2.39	1.5	121	120	1.5
1,2,3,6,7,8-HxCDF	0.000	2.00	2.32	2.30	1.1	116	115	1.1
2,3,4,6,7,8-HxCDF	0.000	2.00	2.40	2.37	1.3	120	119	1.3
1,2,3,7,8,9-HxCDF	0.000	2.00	2.39	2.42	1.4	119	121	1.4
1,2,3,4,7,8-HxCDD	0.000	2.00	2.30	2.31	0.2	115	115	0.2
1,2,3,6,7,8-HxCDD	0.000	2.00	2.56	2.52	1.5	128	126	1.5
1,2,3,7,8,9-HxCDD	0.000	2.00	2.45	2.41	1.5	122	121	1.5
1,2,3,4,6,7,8-HpCDF	0.000	2.00	2.32	2.34	0.8	116	117	0.8
1,2,3,4,7,8,9-HpCDF	0.000	2.00	2.18	2.17	0.5	109	108	0.5
1,2,3,4,6,7,8-HpCDD	0.154	2.00	2.13	2.09	2.1	106	104	2.1
OCDF	0.000	4.00	5.01	5.07	1.1	125	127	1.1
OCDD	1.092	4.00	4.88	4.81	1.4	121	120	1.3

Definitions

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

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
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Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK123L			Dry Weights	
Lab Sample ID	10260486012	Sample Filename	P140322B_07	Sample Amount	NA
MS ID	10260486012-MS	MS Filename	P140322B_16	MS Amount	NA
MSD ID	10260486012-MSD	MSD Filename	P140322B_17	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.40	0.44	0.45	3.0	109	112	3.0
2,3,7,8-TCDD	0.000	0.40	0.37	0.38	1.5	93	94	1.5
1,2,3,7,8-PeCDF	0.000	2.00	2.19	2.20	0.5	109	110	0.5
2,3,4,7,8-PeCDF	0.000	2.00	2.16	2.26	4.4	108	113	4.4
1,2,3,7,8-PeCDD	0.000	2.00	1.83	1.85	1.0	92	92	1.0
1,2,3,4,7,8-HxCDF	0.000	2.00	2.30	2.31	0.4	115	115	0.4
1,2,3,6,7,8-HxCDF	0.000	2.00	2.14	2.19	2.0	107	109	2.0
2,3,4,6,7,8-HxCDF	0.000	2.00	2.22	2.25	1.2	111	112	1.2
1,2,3,7,8,9-HxCDF	0.000	2.00	2.26	2.28	0.9	113	114	0.9
1,2,3,4,7,8-HxCDD	0.000	2.00	2.27	2.23	2.0	114	111	2.0
1,2,3,6,7,8-HxCDD	0.000	2.00	2.30	2.38	3.5	115	119	3.5
1,2,3,7,8,9-HxCDD	0.000	2.00	2.29	2.34	2.1	115	117	2.1
1,2,3,4,6,7,8-HpCDF	0.000	2.00	2.21	2.22	0.1	111	111	0.1
1,2,3,4,7,8,9-HpCDF	0.000	2.00	2.01	2.06	2.5	100	103	2.5
1,2,3,4,6,7,8-HpCDD	0.000	2.00	2.01	1.96	2.4	101	98	2.4
OCDF	0.000	4.00	4.71	4.77	1.3	118	119	1.3
OCDD	0.967	4.00	4.45	4.48	0.6	111	112	0.6

Definitions

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

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

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

ICAL ID	**P130624**	Data Files:		Time	Injected
Calibration Date	06/24/2013	CS-1	P130624B_03	12:10	SMT
Instrument	10MSHR09 (P)	CS-2	P130624B_02	11:27	SMT
Column Phase	DB-5MS 0.25mm	CS-3	P130624B_01	09:59	SMT
Column ID No.	USC473217H	CS-4	P130624B_05	13:44	SMT
		CS-5	P130624B_04	13:01	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.9153	0.8822	0.9115	0.9069	0.9235	0.9079	1.72
2,3,7,8-TCDD	0.9967	1.0189	1.0922	1.0620	1.0861	1.0512	3.99
1,2,3,7,8-PeCDF	0.9072	0.9227	0.9356	0.9389	0.9202	0.9249	1.38
2,3,4,7,8-PeCDF	0.9276	0.9473	0.9608	0.9688	0.9641	0.9537	1.75
1,2,3,7,8-PeCDD	0.9781	0.9893	0.9683	1.0173	1.0167	0.9939	2.25
1,2,3,4,7,8-HxCDF	1.0874	1.1300	1.0787	1.1340	1.1383	1.1137	2.54
1,2,3,6,7,8-HxCDF	1.0365	1.0429	1.0781	1.0788	1.1003	1.0673	2.52
2,3,4,6,7,8-HxCDF	1.0044	1.0509	1.1300	1.0793	1.1029	1.0735	4.51
1,2,3,7,8,9-HxCDF	0.9816	1.0201	1.0012	1.0352	1.0683	1.0213	3.24
1,2,3,4,7,8-HxCDD	1.0559	0.9940	0.9936	0.9900	0.9937	1.0054	2.81
1,2,3,6,7,8-HxCDD	0.9033	0.9431	0.9222	0.9586	0.9359	0.9326	2.25
1,2,3,7,8,9-HxCDD	0.9218	0.9804	1.0094	1.0210	1.0187	0.9903	4.20
1,2,3,4,6,7,8-HpCDF	1.2360	1.3035	1.2999	1.3445	1.3715	1.3111	3.92
1,2,3,4,7,8,9-HpCDF	1.2296	1.2821	1.3476	1.4043	1.3693	1.3266	5.29
1,2,3,4,6,7,8-HpCDD	0.9513	1.0381	1.0397	1.0718	1.0724	1.0346	4.78
OCDF	1.0348	1.1290	1.1301	1.2244	1.2993	1.1635	8.70
OCDD	0.8573	0.9995	1.0065	1.0401	1.0725	0.9952	8.28
Total PeCDF	0.9174	0.9350	0.9482	0.9538	0.9422	0.9393	1.50
Total HxCDF	1.0275	1.0610	1.0720	1.0818	1.1025	1.0689	2.60
Total HxCDD	0.9603	0.9725	0.9751	0.9899	0.9828	0.9761	1.14
Total HpCDF	1.2328	1.2928	1.3238	1.3744	1.3704	1.3188	4.46
2,3,7,8-TCDF-13C	1.5867	1.5323	1.4951	1.5552	1.5888	1.5516	2.54
2,3,7,8-TCDD-13C	0.9963	0.9582	0.9732	0.9720	1.0121	0.9824	2.19
2,3,7,8-TCDD-37Cl4	1.0623	1.0627	1.0771	1.0989	1.1599	1.0922	3.73
1,2,3,7,8-PeCDF-13C	1.1845	1.1586	1.1606	1.1936	1.2989	1.1992	4.81
2,3,4,7,8-PeCDF-13C	1.2029	1.1764	1.1817	1.2249	1.3126	1.2197	4.54
1,2,3,7,8-PeCDD-13C	0.7683	0.7448	0.7768	0.7811	0.8408	0.7824	4.54
1,2,3,4,7,8-HxCDF-13C	1.0542	1.0412	1.0882	1.0300	1.0356	1.0498	2.22
1,2,3,6,7,8-HxCDF-13C	1.3212	1.3560	1.3474	1.3338	1.3273	1.3372	1.07
2,3,4,6,7,8-HxCDF-13C	1.2303	1.2369	1.1859	1.2152	1.2341	1.2205	1.73
1,2,3,7,8,9-HxCDF-13C	1.0505	1.0311	1.0670	1.0684	1.0766	1.0587	1.71
1,2,3,4,7,8-HxCDD-13C	0.8152	0.8306	0.8418	0.8328	0.8475	0.8336	1.48
1,2,3,6,7,8-HxCDD-13C	1.0715	1.0707	1.1166	1.0702	1.0792	1.0816	1.84
1,2,3,4,6,7,8-HpCDF-13C	0.9923	0.9921	1.0325	1.0024	0.9917	1.0022	1.75
1,2,3,4,7,8,9-HpCDF-13C	0.7507	0.7417	0.7626	0.7519	0.7926	0.7599	2.60
1,2,3,4,6,7,8-HpCDD-13C	0.7605	0.7531	0.7937	0.7671	0.7712	0.7691	2.00
OCDD-13C	0.6247	0.6031	0.6510	0.6539	0.6312	0.6328	3.29

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

ICAL ID	**P130624**	Data Files:		Time	Injected
Calibration Date	06/24/2013	CS-1	P130624B_03	12:10	SMT
Instrument	10MSHR09 (P)	CS-2	P130624B_02	11:27	SMT
Column Phase	DB-5MS 0.25mm	CS-3	P130624B_01	09:59	SMT
Column ID No.	USC473217H	CS-4	P130624B_05	13:44	SMT
		CS-5	P130624B_04	13:01	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.77	0.77	0.77	0.76	0.76	0.65 - 0.89
2,3,7,8-TCDD	0.81	0.79	0.81	0.78	0.77	0.65 - 0.89
1,2,3,7,8-PeCDF	1.52	1.51	1.56	1.54	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF	1.49	1.56	1.56	1.55	1.52	1.32 - 1.78
1,2,3,7,8-PeCDD	0.61	0.59	0.62	0.62	0.62	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.24	1.22	1.24	1.24	1.24	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.21	1.25	1.25	1.25	1.25	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.23	1.23	1.27	1.28	1.25	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.14	1.22	1.27	1.25	1.25	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.23	1.24	1.24	1.25	1.24	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.17	1.22	1.24	1.24	1.24	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.19	1.18	1.24	1.29	1.18	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.06	1.08	1.04	1.06	1.04	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	0.97	1.02	1.08	1.03	1.04	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.04	1.07	1.03	1.05	1.04	0.88 - 1.20
OCDF	0.89	0.93	0.93	0.88	0.90	0.76 - 1.02
OCDD	0.90	0.88	0.90	0.90	0.90	0.76 - 1.02
1,2,3,4-TCDD-13C	0.80	0.80	0.78	0.80	0.80	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.25	1.17	1.26	1.25	1.24	1.05 - 1.43
2,3,7,8-TCDF-13C	0.79	0.78	0.77	0.78	0.79	0.65 - 0.89
2,3,7,8-TCDD-13C	0.78	0.78	0.79	0.79	0.80	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.56	1.55	1.56	1.55	1.59	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.57	1.56	1.57	1.59	1.57	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.63	1.58	1.60	1.59	1.57	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.51	0.51	0.52	0.51	0.52	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.54	0.52	0.52	0.53	0.53	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.51	0.52	0.52	0.52	0.53	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.49	0.53	0.51	0.51	0.53	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.26	1.24	1.25	1.25	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.25	1.27	1.24	1.25	1.26	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.46	0.47	0.45	0.45	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.43	0.45	0.45	0.45	0.46	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.05	1.07	1.01	1.08	1.04	0.88 - 1.20
OCDD-13C	0.89	0.91	0.91	0.88	0.89	0.76 - 1.02

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

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

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

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

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

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

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

Lab Name	CS3/CPM-7604-301		
Filename	P140321B_01	Instrument ID	10MSHR09 (P)
Injected By	BAL	GC Column ID	USC473217H
Analyzed	03/21/2014 15:14	ICAL ID	P130624

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.79	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.79	0.65 - 0.89	102.3	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.59	1.32 - 1.78	94.4	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	104.0	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	100.3	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.26	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.04	0.88 - 1.20	106.6	72 - 138
OCDD-13C	M+2/M+4	0.88	0.76 - 1.02	222.9	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	102.0	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.61	1.32 - 1.78	100.0	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	97.5	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	107.1	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.54	0.43 - 0.59	105.3	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	102.5	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	116.1	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.46	0.37 - 0.51	102.4	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	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.

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

Lab Name	CS3/CPM-7604-301		
Filename	P140321B_01	Instrument ID	10MSHR09 (P)
Injected By	BAL	GC Column ID	USC473217H
Analyzed	03/21/2014 15:14	ICAL ID	P130624

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.75	0.65 - 0.89	10.5	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.61	0.52 - 0.70	51.0	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05 - 1.43	50.2	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	51.4	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05 - 1.43	51.9	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88 - 1.20	51.0	43 - 58
OCDD	M+2/M+4	0.91	0.76 - 1.02	99.6	79 - 126
2,3,7,8-TCDF	M/M+2	0.72	0.65 - 0.89	10.6	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	52.1	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.50	1.32 - 1.78	52.8	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	51.8	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	52.3	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	56.4	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	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	50.5	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	49.7	43 - 58
OCDF	M+2/M+4	0.91	0.76 - 1.02	103.5	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-7604-301		
Filename	P140322B_01	Instrument ID	10MSHR09 (P)
Injected By	BAL	GC Column ID	USC473217H
Analyzed	03/22/2014 12:10	ICAL ID	P130624

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.79	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.79	0.65 - 0.89	102.4	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.59	1.32 - 1.78	89.0	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.27	1.05 - 1.43	101.3	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	102.6	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.22	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.05	0.88 - 1.20	95.5	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	180.1	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.79	0.65 - 0.89	101.0	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	95.6	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.59	1.32 - 1.78	92.8	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	110.2	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	108.6	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	102.8	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	109.0	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	94.9	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	91.8	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.9	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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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

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

Lab Name	CS3/CPM-7604-301		
Filename	P140322B_01	Instrument ID	10MSHR09 (P)
Injected By	BAL	GC Column ID	USC473217H
Analyzed	03/22/2014 12:10	ICAL ID	P130624

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	0.81	0.65 - 0.89	10.7	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.52 - 0.70	51.7	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	51.0	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05 - 1.43	52.2	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05 - 1.43	51.4	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88 - 1.20	51.0	43 - 58
OCDD	M+2/M+4	0.88	0.76 - 1.02	102.9	79 - 126
2,3,7,8-TCDF	M/M+2	0.73	0.65 - 0.89	10.8	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32 - 1.78	53.3	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32 - 1.78	52.9	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.20	1.05 - 1.43	51.8	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	52.0	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	55.9	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05 - 1.43	50.8	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88 - 1.20	50.8	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88 - 1.20	50.4	43 - 58
OCDF	M+2/M+4	0.92	0.76 - 1.02	98.8	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	U140328B_02	Instrument ID	10MSHR06 (U)
Injected By	BAL	GC Column ID	USD397111H
Analyzed	03/28/2014 17:55	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.79	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.79	0.65 - 0.89	96.9	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.56	1.32 - 1.78	93.8	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	107.9	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	98.1	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.21	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.08	0.88 - 1.20	99.3	72 - 138
OCDD-13C	M+2/M+4	0.90	0.76 - 1.02	211.2	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.77	0.65 - 0.89	96.2	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.53	1.32 - 1.78	91.0	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.54	1.32 - 1.78	92.2	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	96.2	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	90.5	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	95.7	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	96.8	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	100.8	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	103.0	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.8	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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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

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

Lab Name	CS3/CPM-7604-301		
Filename	U140328B_02	Instrument ID	10MSHR06 (U)
Injected By	BAL	GC Column ID	USD397111H
Analyzed	03/28/2014 17:55	ICAL ID	U140322

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.77	0.65 - 0.89	10.1	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.60	0.52 - 0.70	48.6	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05 - 1.43	44.8	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05 - 1.43	50.3	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05 - 1.43	46.7	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88 - 1.20	52.1	43 - 58
OCDD	M+2/M+4	0.89	0.76 - 1.02	99.7	79 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65 - 0.89	9.6	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32 - 1.78	45.6	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.32 - 1.78	46.9	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05 - 1.43	45.5	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.05 - 1.43	47.2	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.19	1.05 - 1.43	47.6	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05 - 1.43	45.5	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88 - 1.20	49.4	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88 - 1.20	49.1	43 - 58
OCDF	M+2/M+4	0.89	0.76 - 1.02	95.6	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

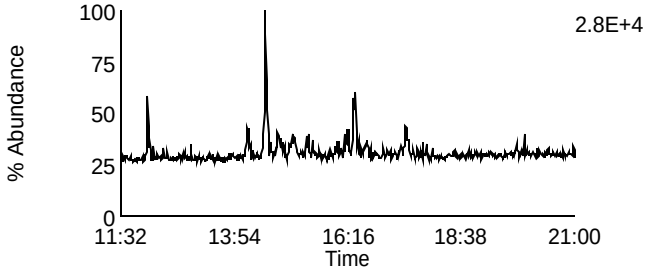
Sample Raw Data

Homologue Group: Tetras

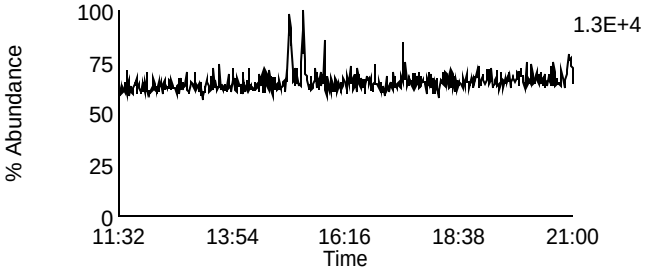
Data File Name: P140321B_09
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486001 - BAL PASI-WI

Lab Sample ID: 10260486001
Client Sample ID: MAK111C
Instrument: 10MSHR09 (P)

Data File: P140321B_09 G1 C1 - 303.9016
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C7 - 319.8965
SAMP 10260486001 - BAL PASI-WI



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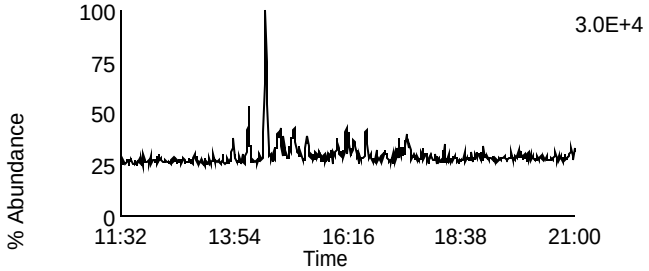
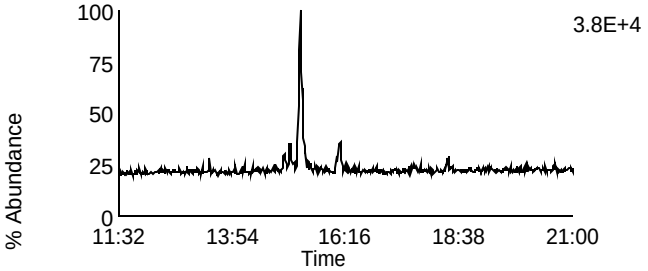
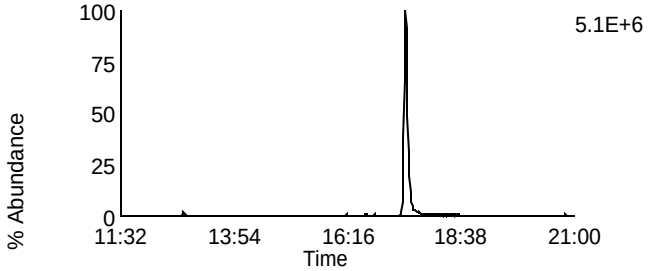
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C8 - 321.8936
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C3 - 315.9418
SAMP 10260486001 - BAL PASI-WI



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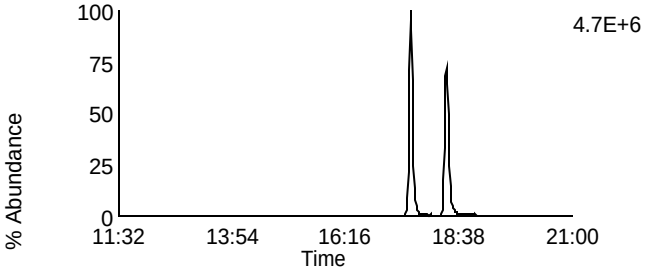
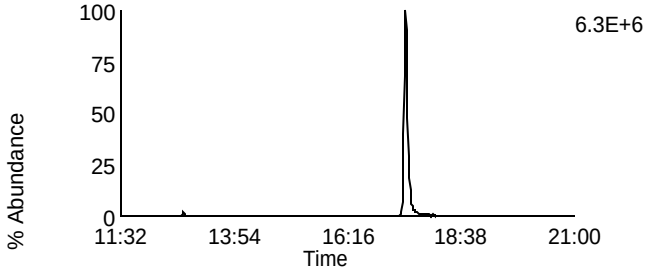
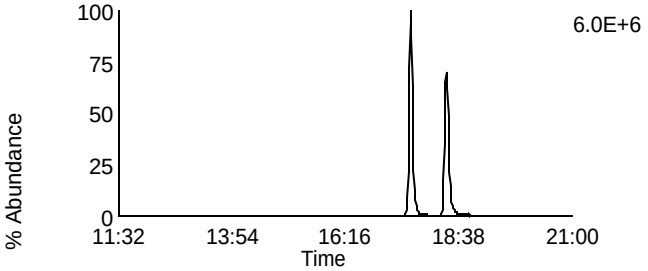
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C4 - 317.9389
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C11 - 333.9338
SAMP 10260486001 - BAL PASI-WI



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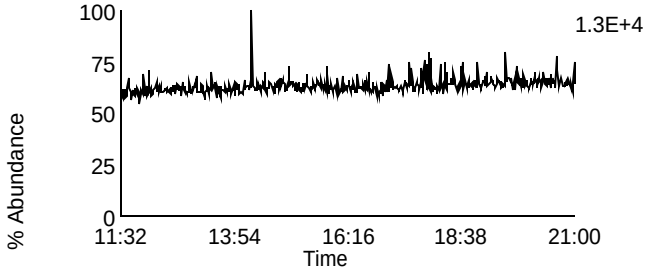
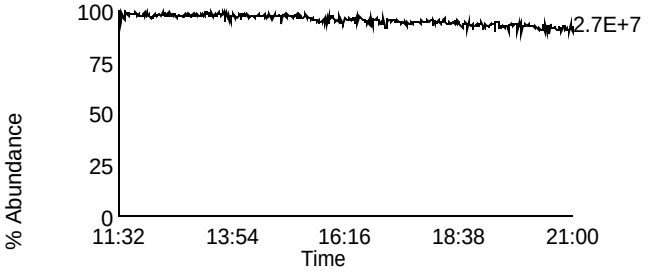
SAMP 10260486001 - BAL PASI-WI



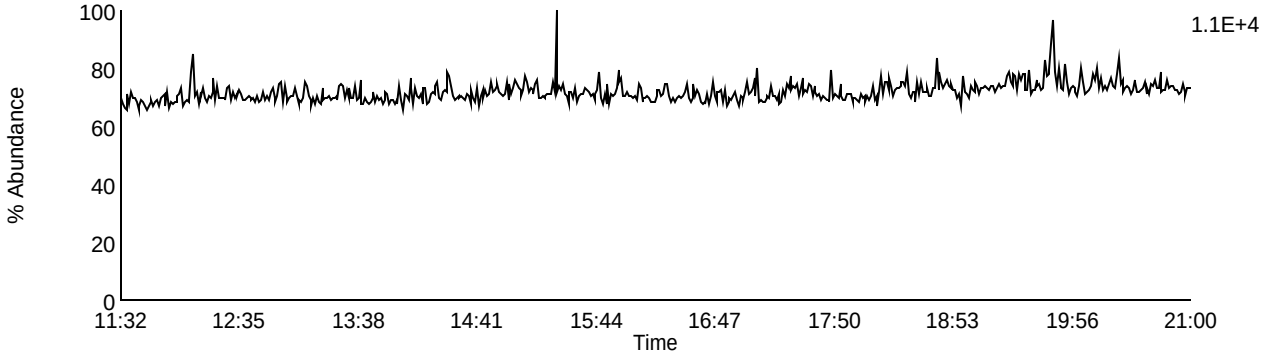
Data File: P140321B_09 G1 C5 - 318.9792
SAMP 10260486001 - BAL PASI-WI



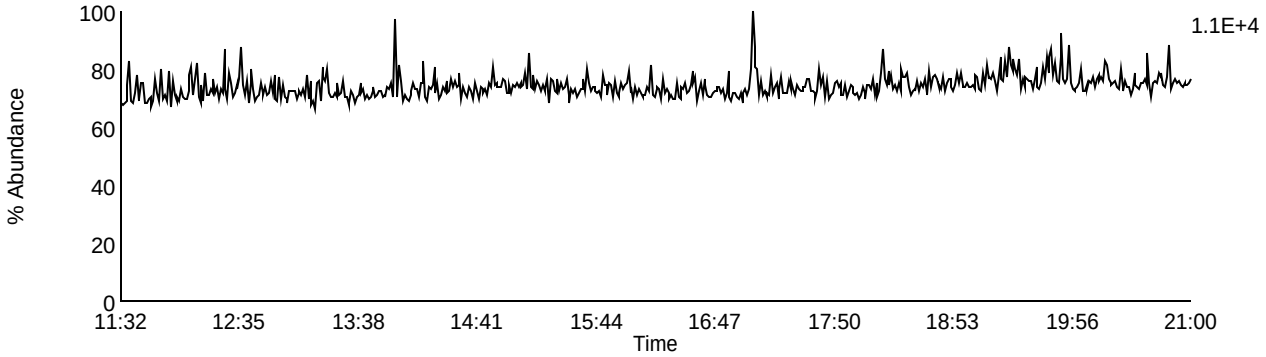
Homologue Group: Penta & Cleanup

Data File Name: P140321B_09	Lab Sample ID: 10260486001
Date Acquired: 3/21/2014	Client Sample ID: MAK111C
Sample Description: SAMP 10260486001 - BAL PASI-WI	Instrument: 10MSHR09 (P)

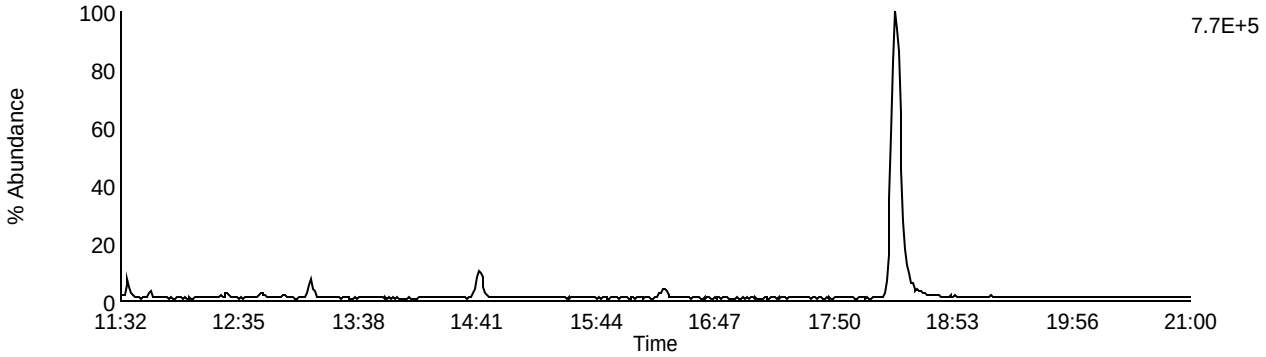
Data File: P140321B_09 G1 C12 - 339.8597
SAMP 10260486001 - BAL PASI-WI



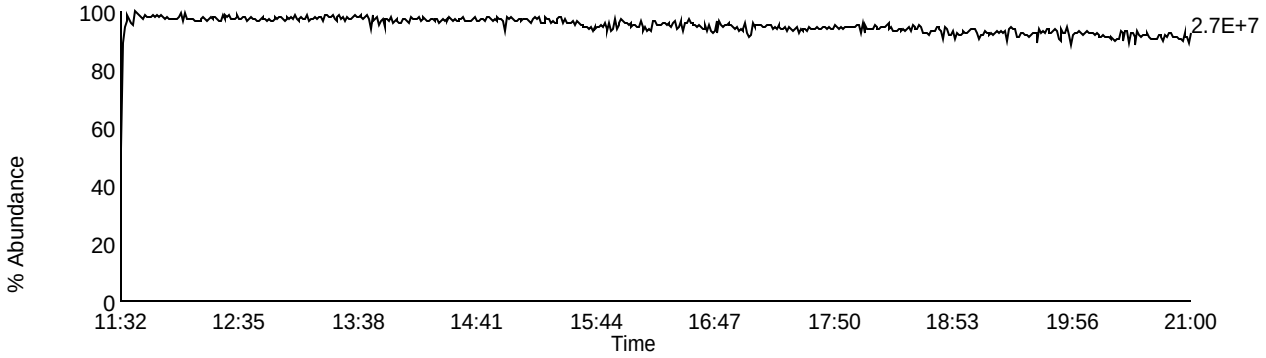
Data File: P140321B_09 G1 C13 - 341.8567
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C9 - 327.8847
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G1 C5 - 318.9792
SAMP 10260486001 - BAL PASI-WI

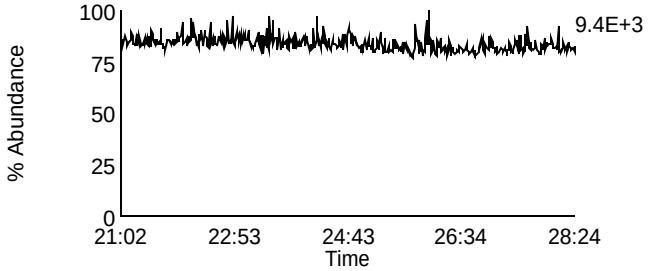


Homologue Group: Pentas

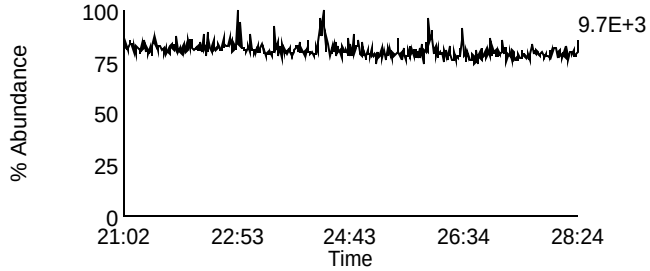
Data File Name: P140321B_09
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486001 - BAL PASI-WI

Lab Sample ID: 10260486001
Client Sample ID: MAK111C
Instrument: 10MSHR09 (P)

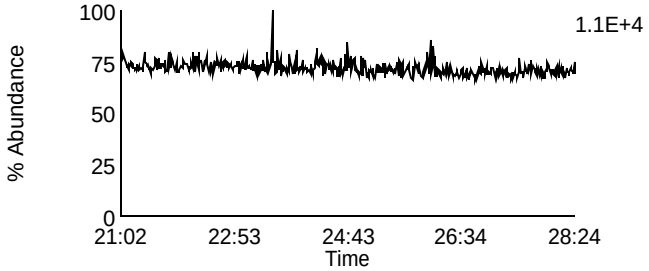
Data File: P140321B_09 G2 C1 - 339.8597
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G2 C4 - 353.8576
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G2 C2 - 341.8567
SAMP 10260486001 - BAL PASI-WI



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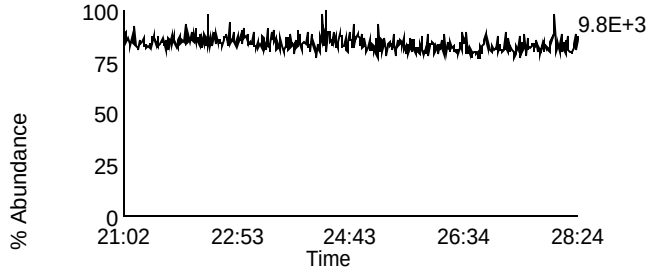
SAMP 10260486001 - BAL PASI-WI



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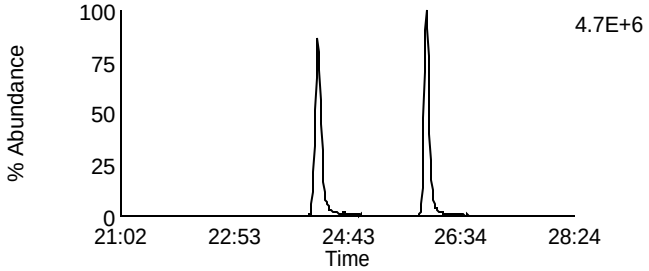
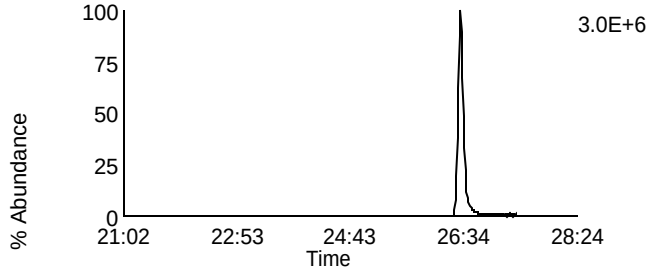
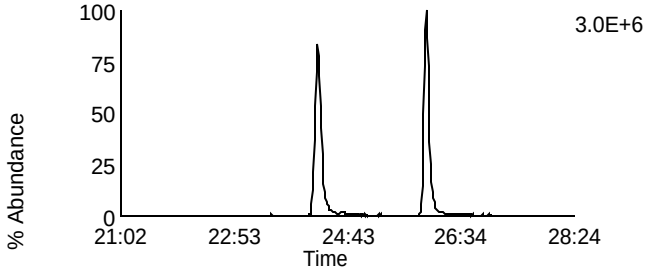
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G2 C10 - 367.8948
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G2 C5 - 353.8969
SAMP 10260486001 - BAL PASI-WI



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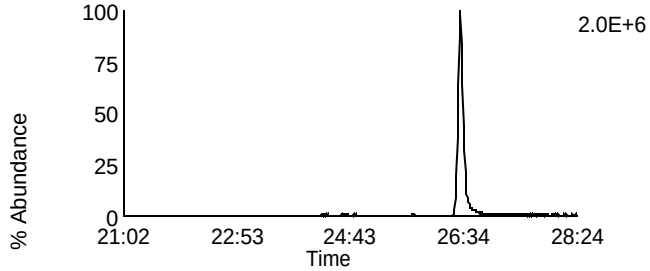
SAMP 10260486001 - BAL PASI-WI



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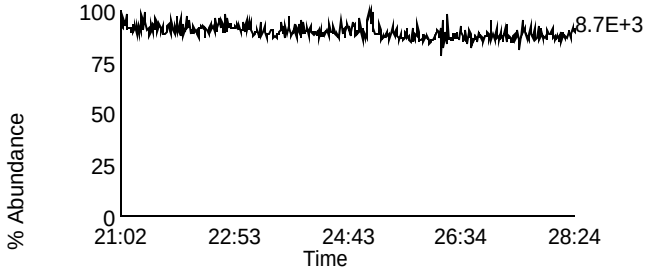
SAMP 10260486001 - BAL PASI-WI



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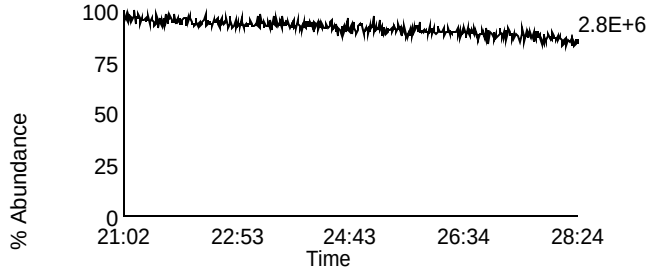
SAMP 10260486001 - BAL PASI-WI

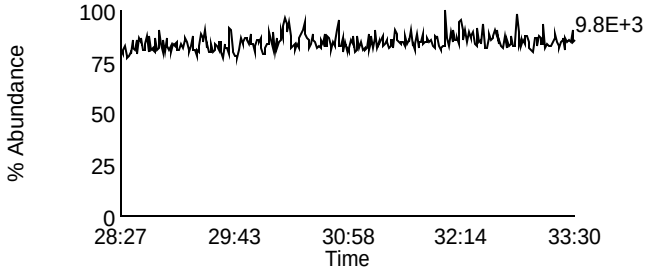


Homologue Group: Hexas

Data File Name: P140321B_09
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486001 - BAL PASI-WI

Lab Sample ID: 10260486001
Client Sample ID: MAK111C
Instrument: 10MSHR09 (P)

Data File: P140321B_09 G3 C1 - 373.8207
SAMP 10260486001 - BAL PASI-WI



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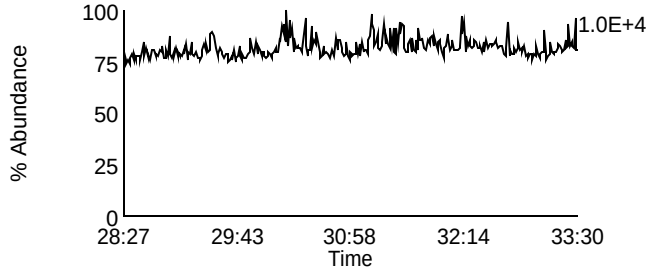
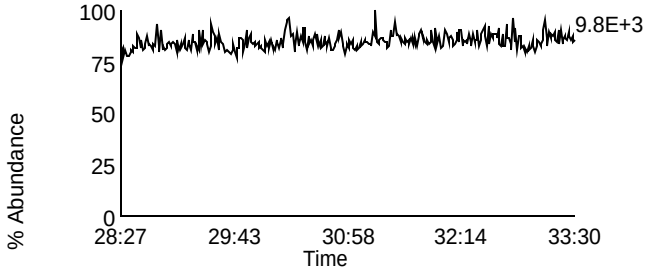
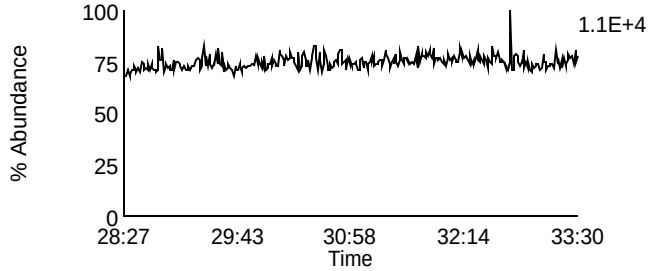
SAMP 10260486001 - BAL PASI-WI



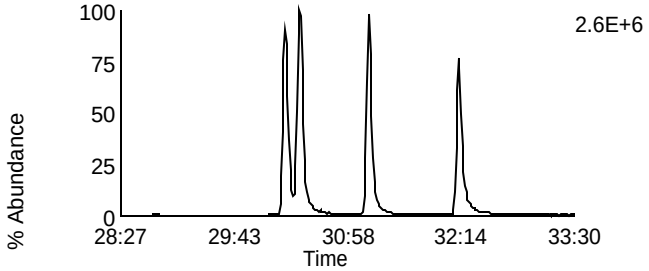
Data File: P140321B_09 G3 C2 - 375.8178
SAMP 10260486001 - BAL PASI-WI



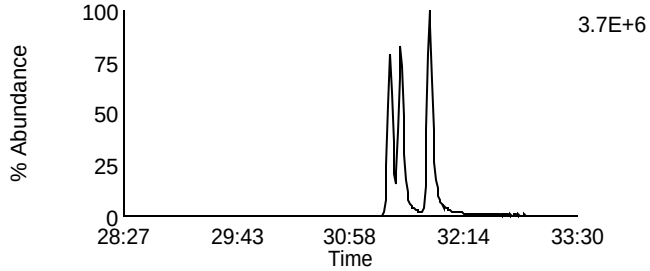
Data File: P140321B_09 G3 C8 - 391.8127
SAMP 10260486001 - BAL PASI-WI



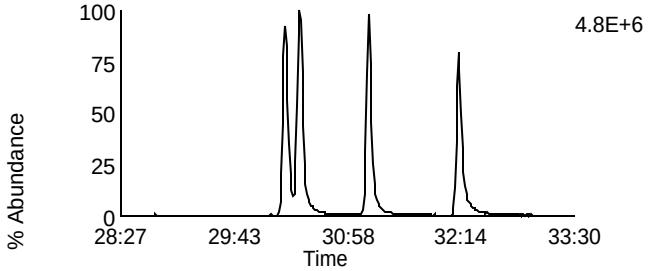
Data File: P140321B_09 G3 C5 - 383.8639
SAMP 10260486001 - BAL PASI-WI



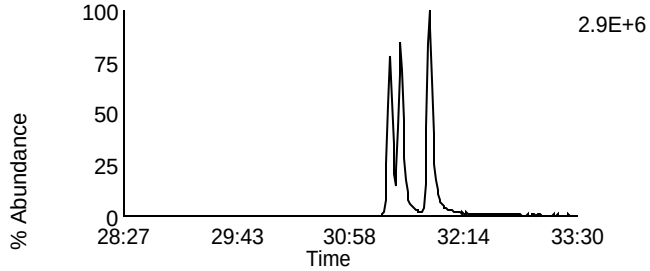
Data File: P140321B_09 G3 C9 - 401.8559
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G3 C6 - 385.861
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G3 C10 - 403.8529
SAMP 10260486001 - BAL PASI-WI



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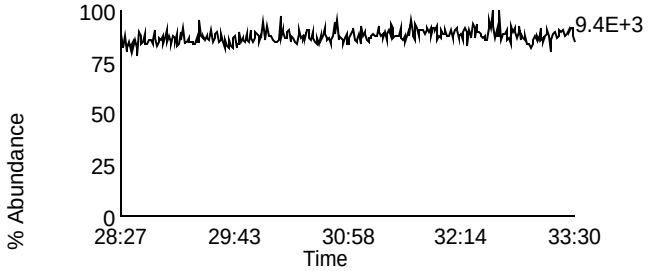
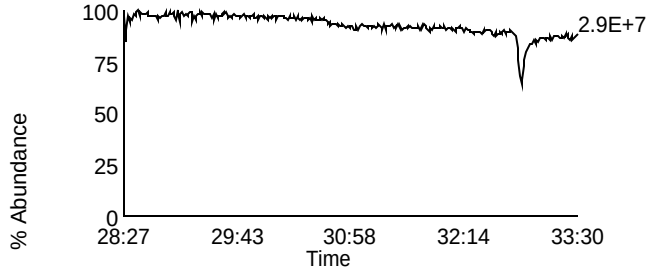
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G3 C3 - 380.976
SAMP 10260486001 - BAL PASI-WI

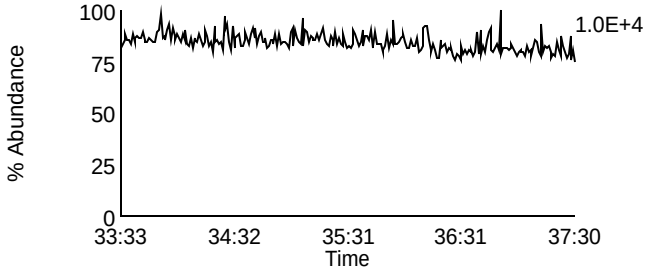


Homologue Group: Heptas

Data File Name: P140321B_09
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486001 - BAL PASI-WI

Lab Sample ID: 10260486001
Client Sample ID: MAK111C
Instrument: 10MSHR09 (P)

Data File: P140321B_09 G4 C3 - 407.7818
SAMP 10260486001 - BAL PASI-WI



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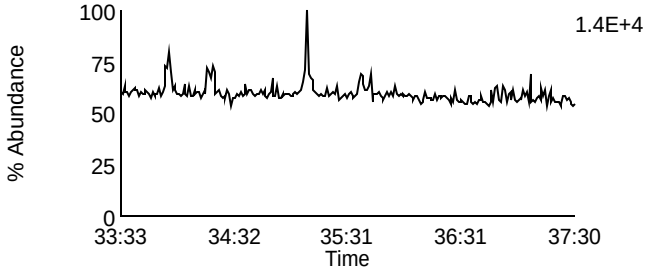
SAMP 10260486001 - BAL PASI-WI



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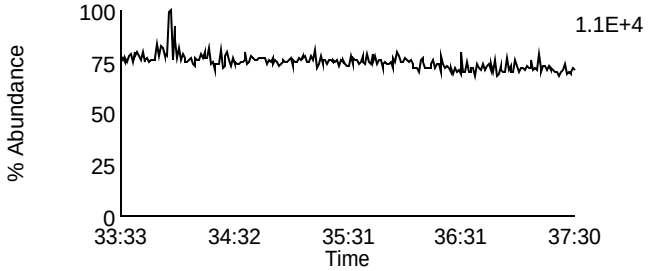
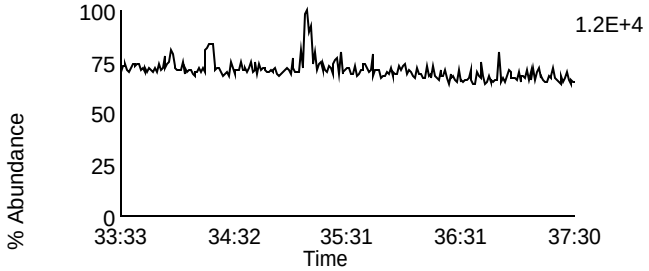
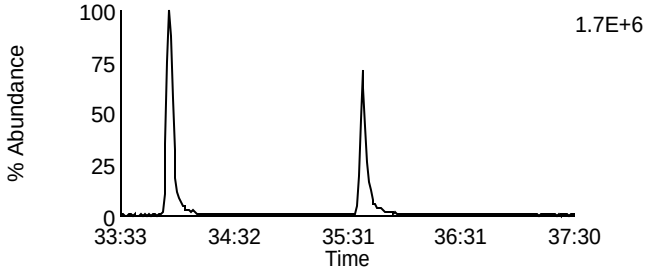
SAMP 10260486001 - BAL PASI-WI



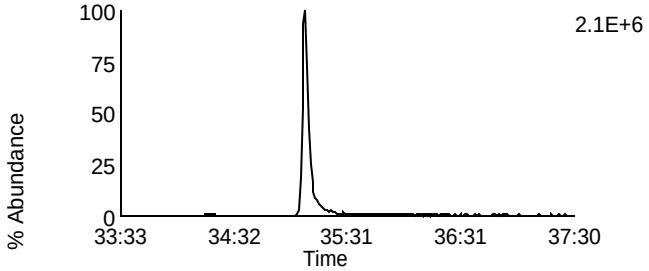
Data File: P140321B_09 G4 C9 - 425.7737
SAMP 10260486001 - BAL PASI-WI



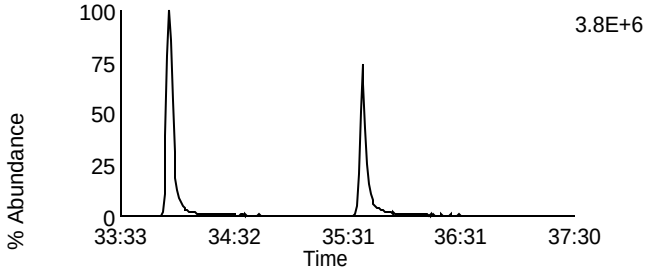
Data File: P140321B_09 G4 C6 - 417.825
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G4 C11 - 435.8169
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G4 C7 - 419.822
SAMP 10260486001 - BAL PASI-WI



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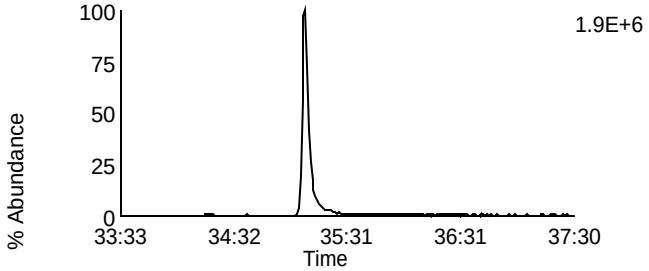
SAMP 10260486001 - BAL PASI-WI



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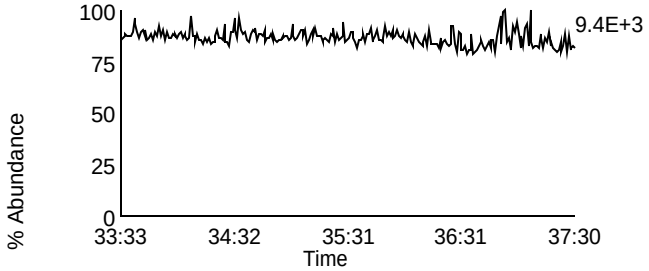
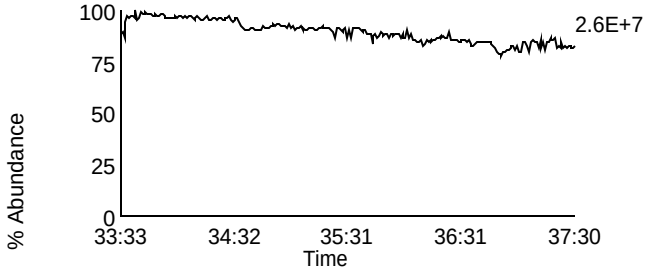
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G4 C1 - 380.976
SAMP 10260486001 - BAL PASI-WI

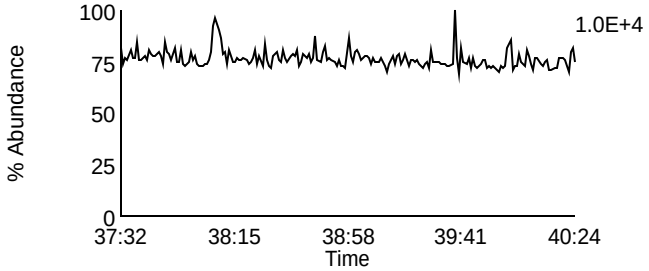


Homologue Group: Octas

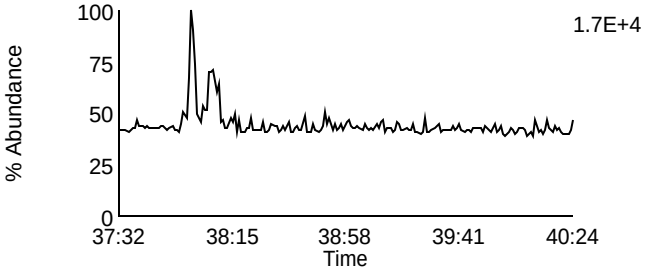
Data File Name: P140321B_09
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486001 - BAL PASI-WI

Lab Sample ID: 10260486001
Client Sample ID: MAK111C
Instrument: 10MSHR09 (P)

Data File: P140321B_09 G5 C4 - 441.7428
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G5 C8 - 457.7377
SAMP 10260486001 - BAL PASI-WI



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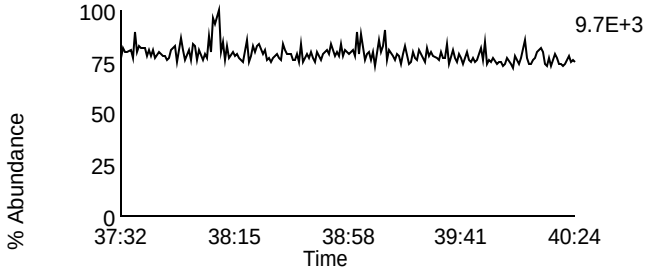
SAMP 10260486001 - BAL PASI-WI



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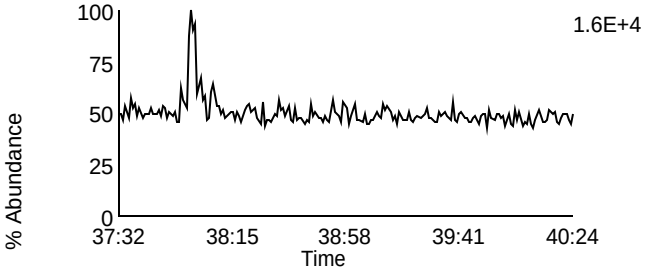
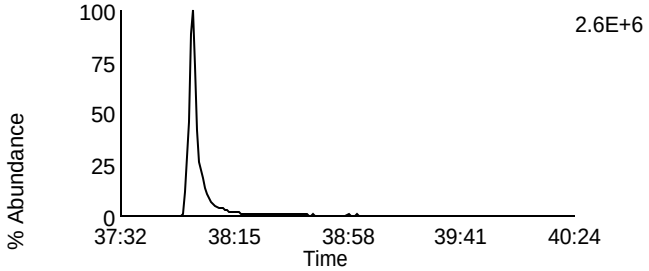
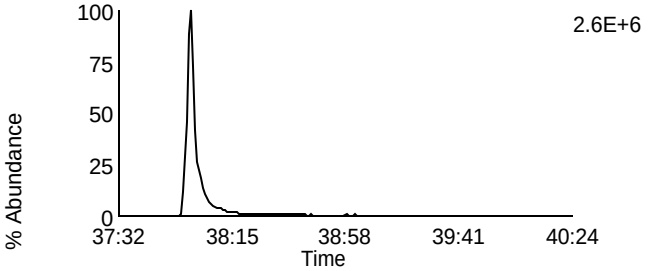
SAMP 10260486001 - BAL PASI-WI



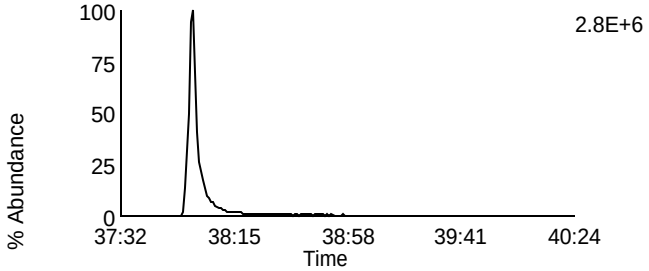
Data File: P140321B_09 G5 C11 - 469.7779
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G5 C11 - 469.7779
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G5 C12 - 471.7749
SAMP 10260486001 - BAL PASI-WI



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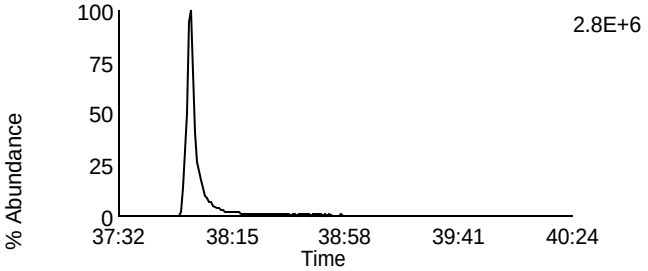
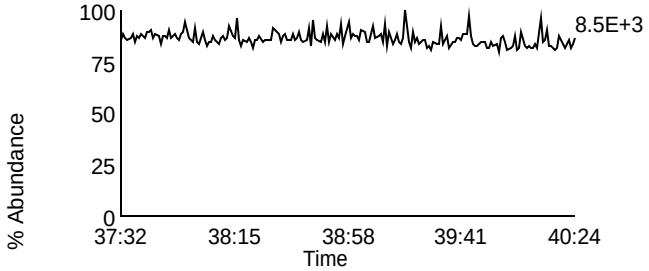
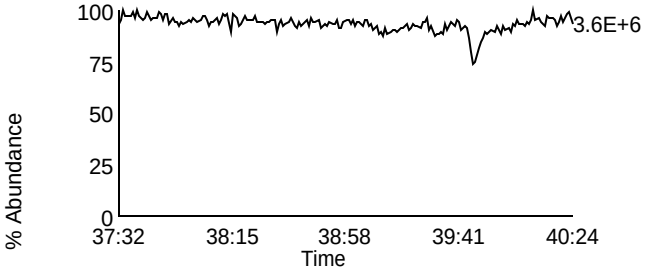


Data File: P140321B_09 G5 C13 - 513.6775
SAMP 10260486001 - BAL PASI-WI



Data File: P140321B_09 G5 C2 - 430.9728
SAMP 10260486001 - BAL PASI-WI

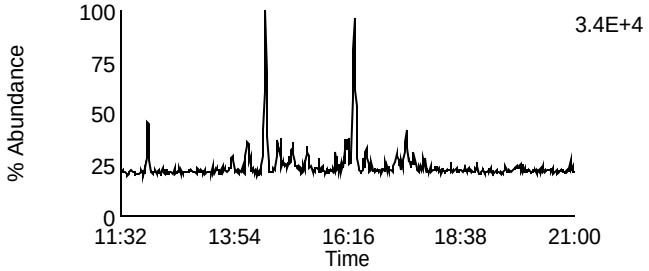


Homologue Group: Tetras

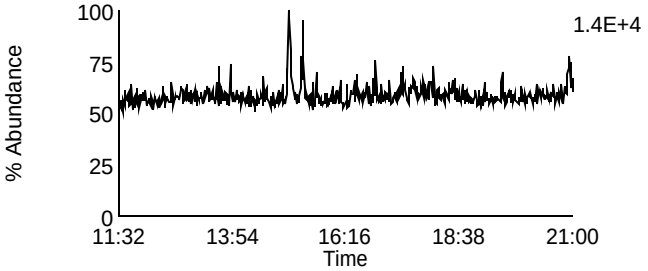
Data File Name: P140321B_10
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486002 - BAL PASI-WI

Lab Sample ID: 10260486002
Client Sample ID: MAK113C
Instrument: 10MSHR09 (P)

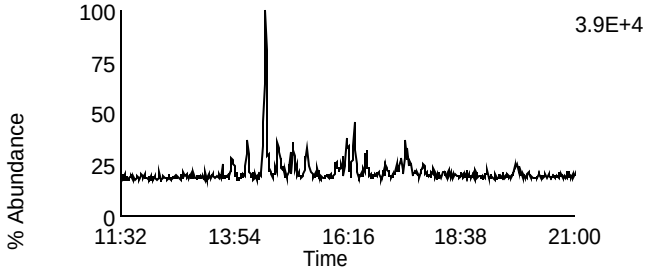
Data File: P140321B_10 G1 C1 - 303.9016
SAMP 10260486002 - BAL PASI-WI



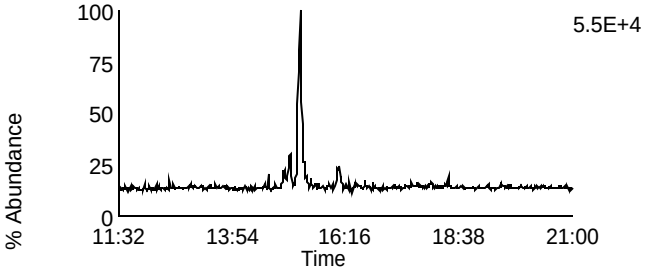
Data File: P140321B_10 G1 C7 - 319.8965
SAMP 10260486002 - BAL PASI-WI



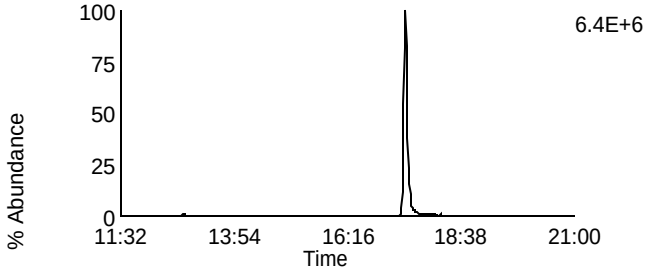
Data File: P140321B_10 G1 C2 - 305.8987
SAMP 10260486002 - BAL PASI-WI



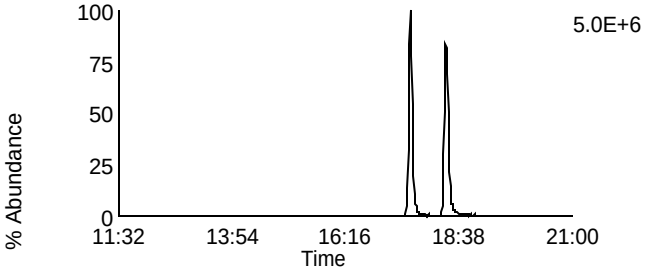
Data File: P140321B_10 G1 C8 - 321.8936
SAMP 10260486002 - BAL PASI-WI



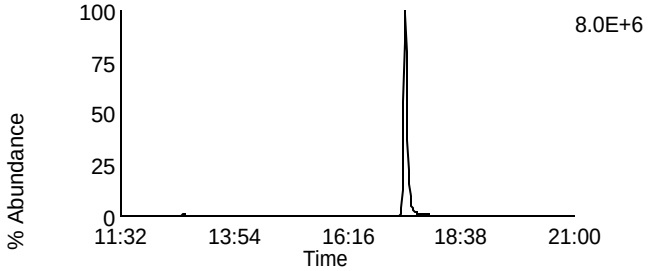
Data File: P140321B_10 G1 C3 - 315.9418
SAMP 10260486002 - BAL PASI-WI



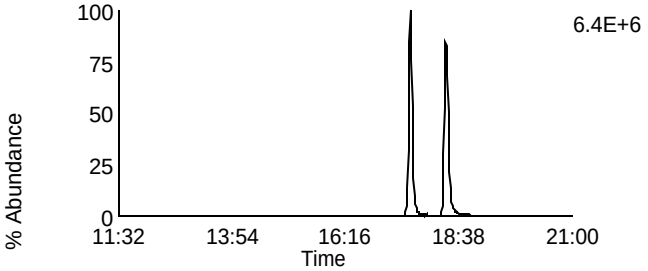
Data File: P140321B_10 G1 C10 - 331.9367
SAMP 10260486002 - BAL PASI-WI



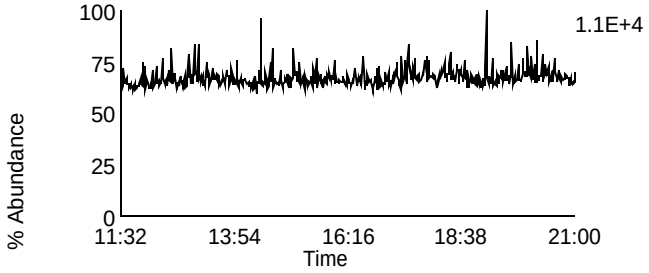
Data File: P140321B_10 G1 C4 - 317.9389
SAMP 10260486002 - BAL PASI-WI



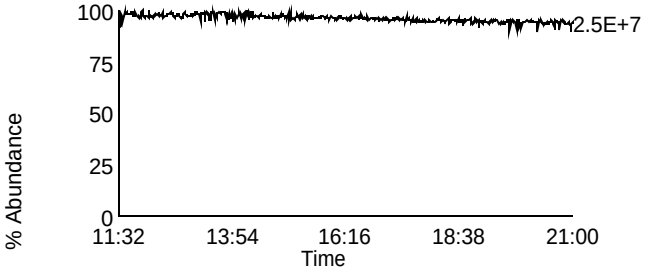
Data File: P140321B_10 G1 C11 - 333.9338
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G1 C14 - 375.8364
SAMP 10260486002 - BAL PASI-WI



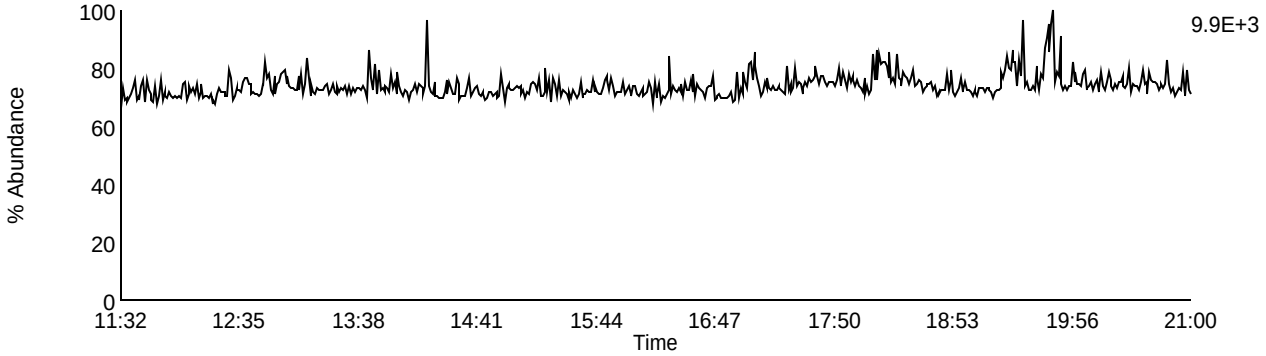
Data File: P140321B_10 G1 C5 - 318.9792
SAMP 10260486002 - BAL PASI-WI



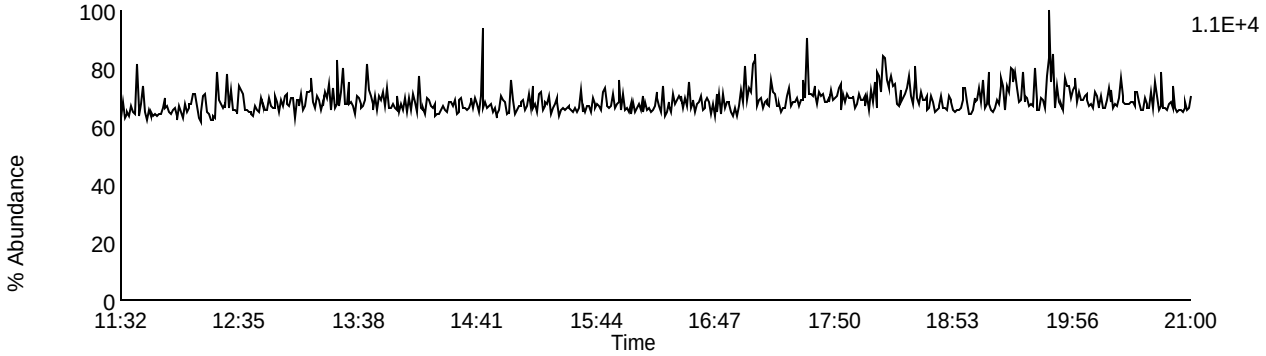
Homologue Group: Penta & Cleanup

Data File Name: P140321B_10	Lab Sample ID: 10260486002
Date Acquired: 3/21/2014	Client Sample ID: MAK113C
Sample Description: SAMP 10260486002 - BAL PASI-WI	Instrument: 10MSHR09 (P)

Data File: P140321B_10 G1 C12 - 339.8597
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G1 C13 - 341.8567
SAMP 10260486002 - BAL PASI-WI



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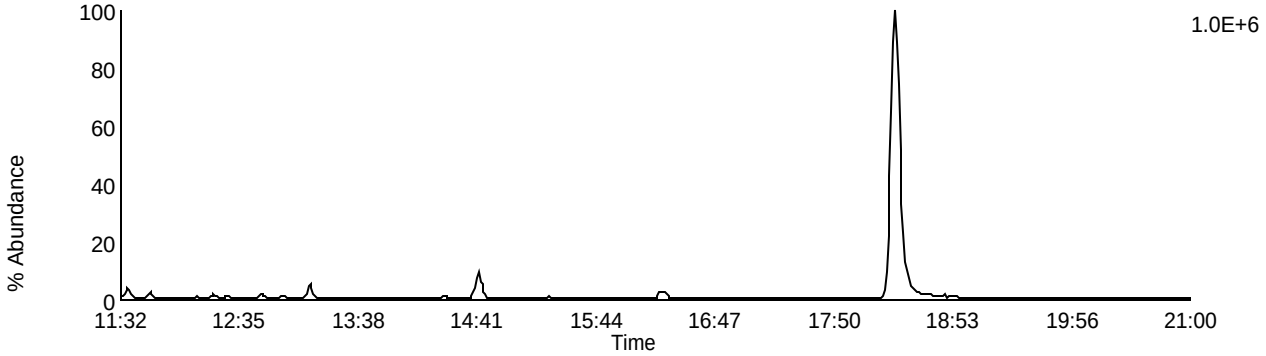
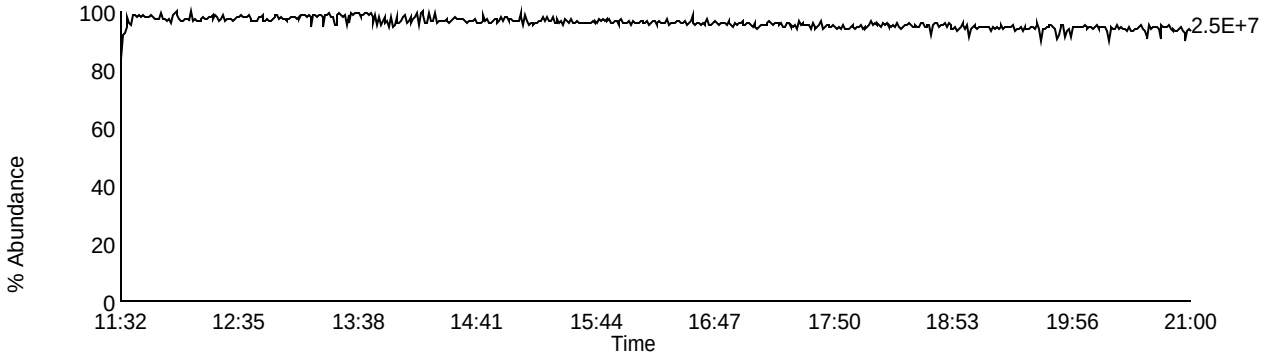
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G1 C5 - 318.9792
SAMP 10260486002 - BAL PASI-WI

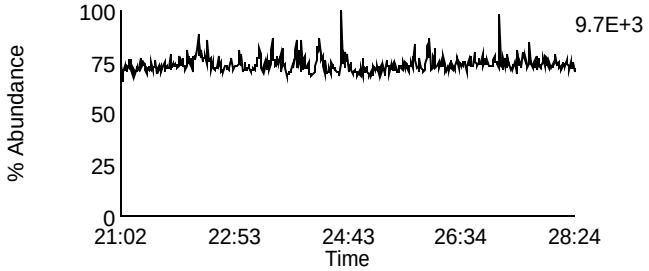


Homologue Group: Pentas

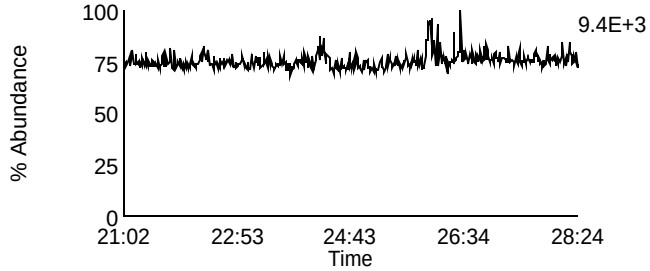
Data File Name: P140321B_10
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486002 - BAL PASI-WI

Lab Sample ID: 10260486002
Client Sample ID: MAK113C
Instrument: 10MSHR09 (P)

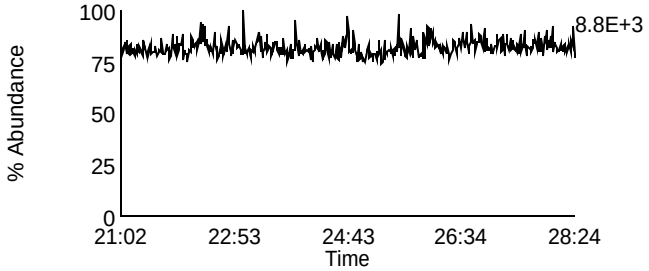
Data File: P140321B_10 G2 C1 - 339.8597
SAMP 10260486002 - BAL PASI-WI



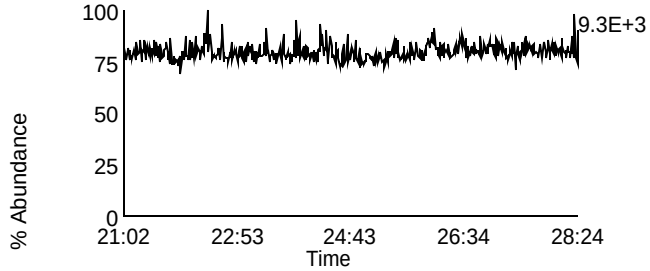
Data File: P140321B_10 G2 C4 - 353.8576
SAMP 10260486002 - BAL PASI-WI



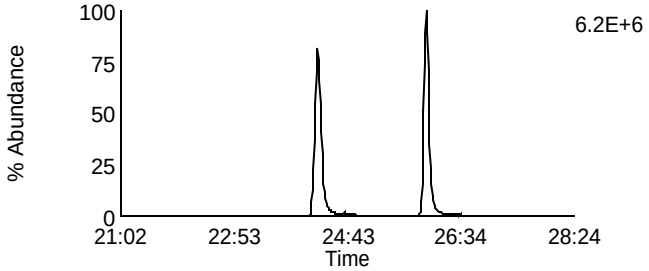
Data File: P140321B_10 G2 C2 - 341.8567
SAMP 10260486002 - BAL PASI-WI



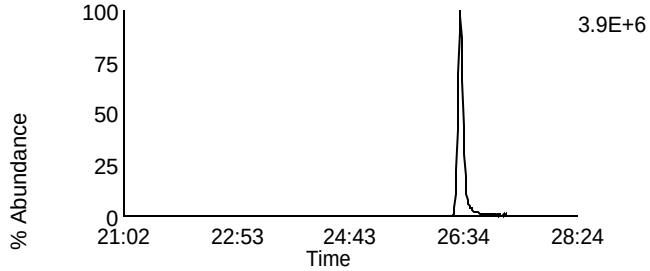
Data File: P140321B_10 G2 C8 - 355.8546
SAMP 10260486002 - BAL PASI-WI



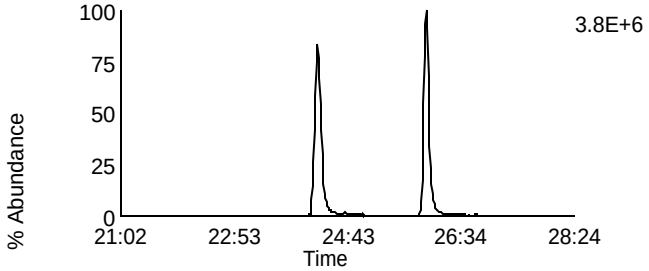
Data File: P140321B_10 G2 C3 - 351.8999
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G2 C10 - 367.8948
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G2 C5 - 353.8969
SAMP 10260486002 - BAL PASI-WI



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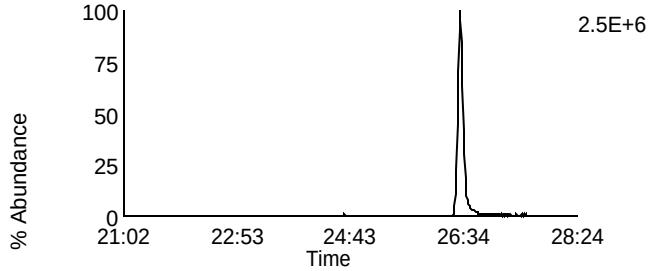
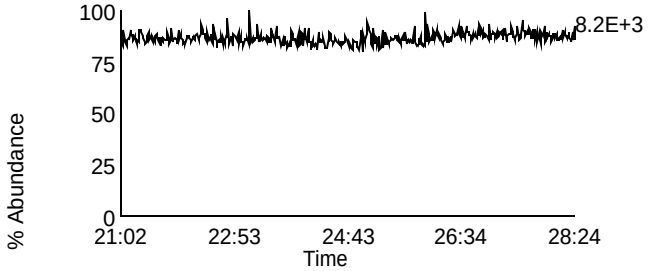
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G2 C12 - 409.7974
SAMP 10260486002 - BAL PASI-WI



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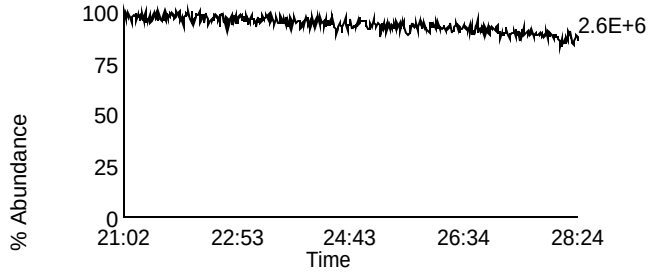
SAMP 10260486002 - BAL PASI-WI

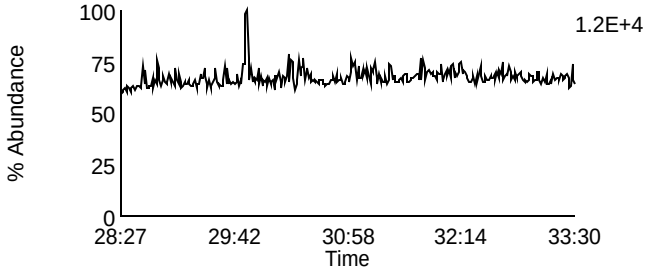


Homologue Group: Hexas

Data File Name: P140321B_10
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486002 - BAL PASI-WI

Lab Sample ID: 10260486002
Client Sample ID: MAK113C
Instrument: 10MSHR09 (P)

Data File: P140321B_10 G3 C1 - 373.8207
SAMP 10260486002 - BAL PASI-WI



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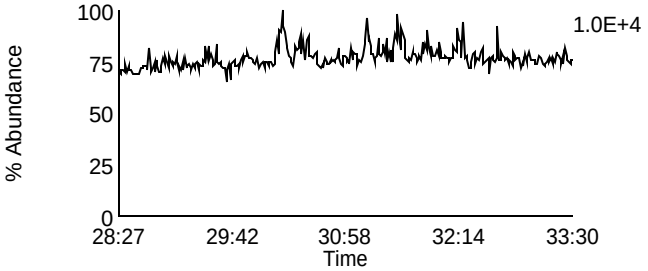
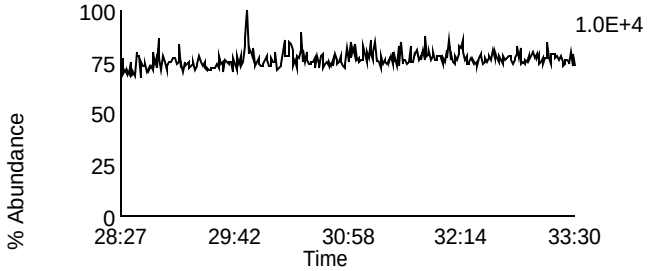
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G3 C2 - 375.8178
SAMP 10260486002 - BAL PASI-WI



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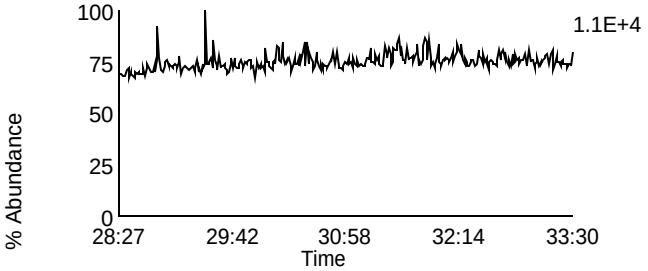
SAMP 10260486002 - BAL PASI-WI



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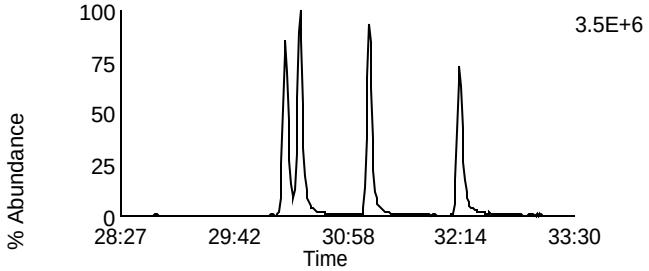
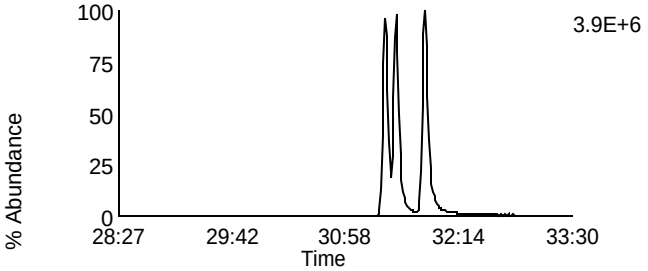
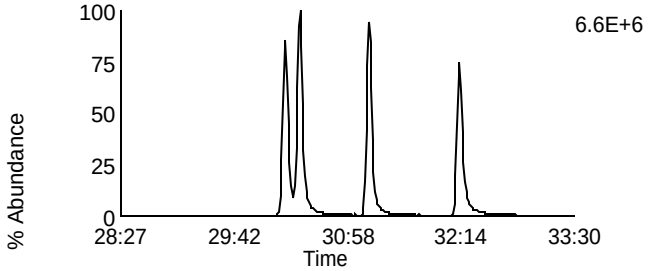
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G3 C9 - 401.8559
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G3 C6 - 385.861
SAMP 10260486002 - BAL PASI-WI



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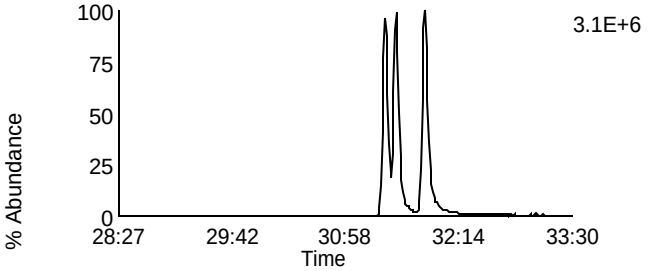
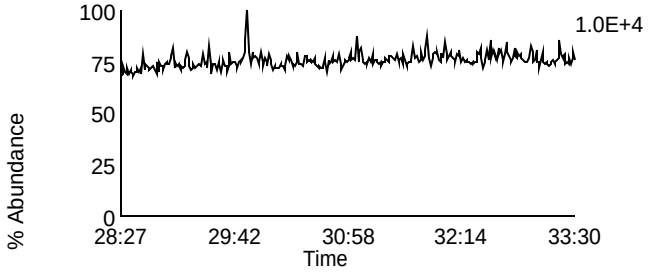
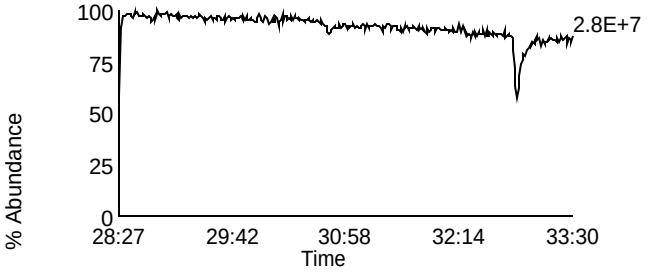


Data File: P140321B_10 G3 C11 - 445.7555
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G3 C3 - 380.976
SAMP 10260486002 - BAL PASI-WI

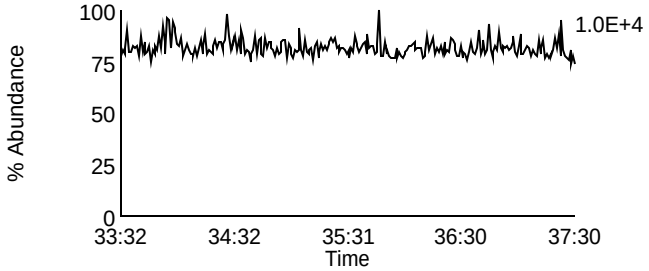


Homologue Group: Heptas

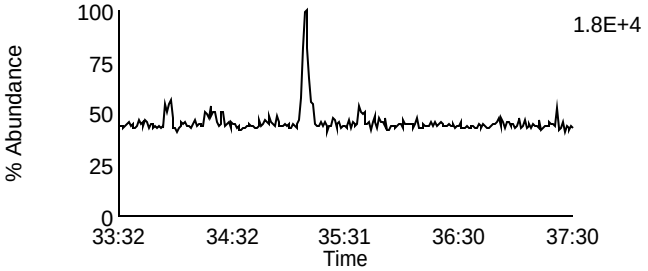
Data File Name: P140321B_10
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486002 - BAL PASI-WI

Lab Sample ID: 10260486002
Client Sample ID: MAK113C
Instrument: 10MSHR09 (P)

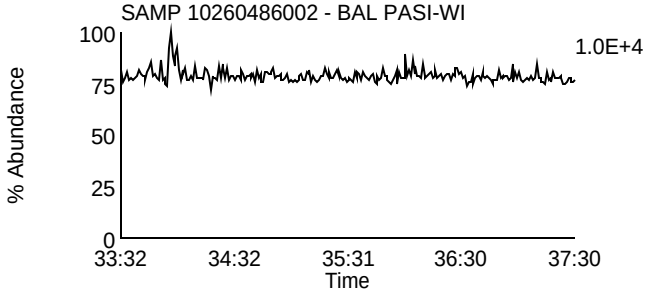
Data File: P140321B_10 G4 C3 - 407.7818
SAMP 10260486002 - BAL PASI-WI



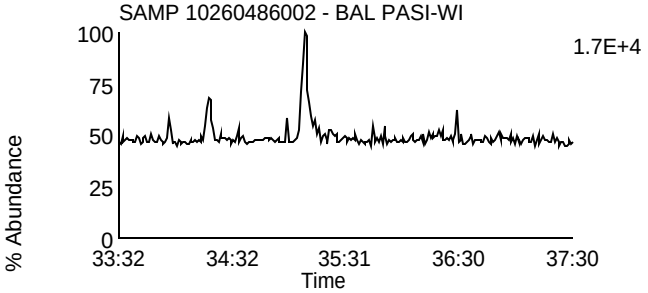
Data File: P140321B_10 G4 C8 - 423.7767
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C4 - 409.7788
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C9 - 425.7737
SAMP 10260486002 - BAL PASI-WI



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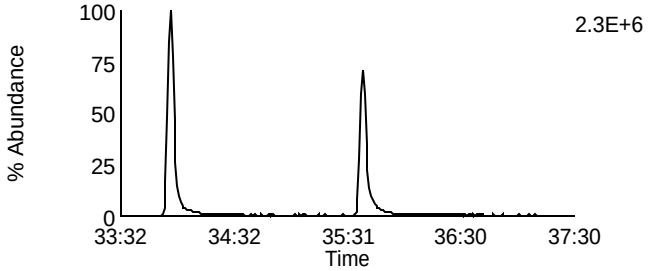
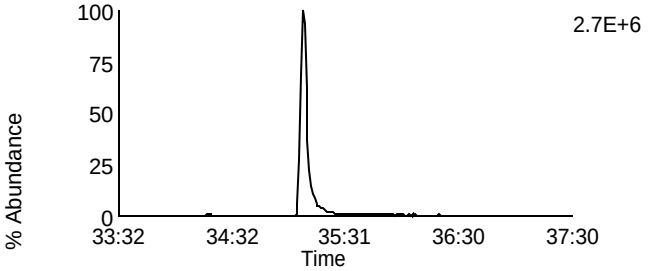
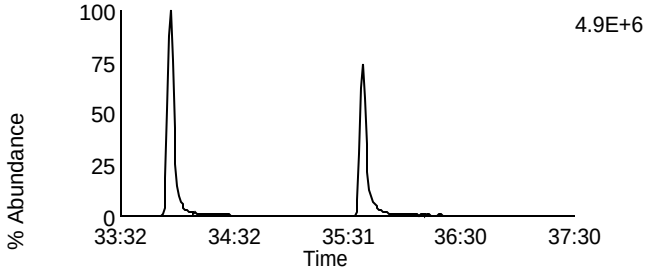
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C11 - 435.8169
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C7 - 419.822
SAMP 10260486002 - BAL PASI-WI



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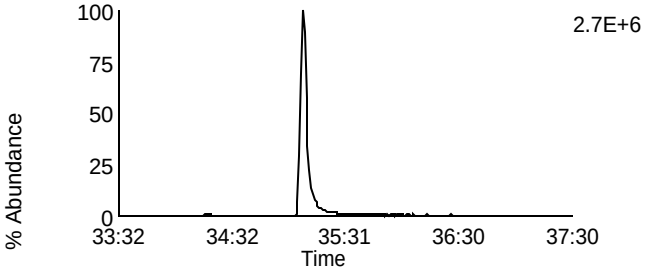
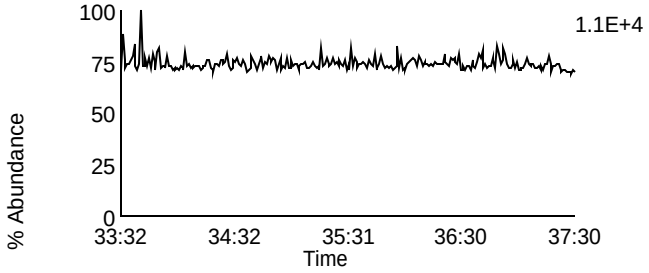
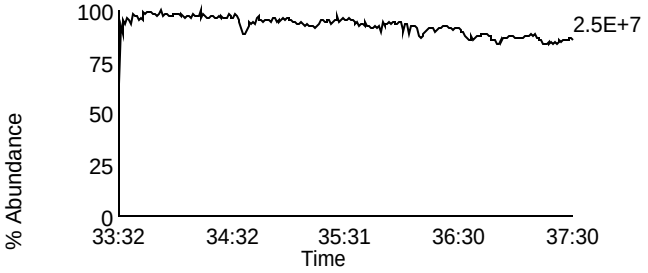
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C13 - 479.7165
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G4 C1 - 380.976
SAMP 10260486002 - BAL PASI-WI

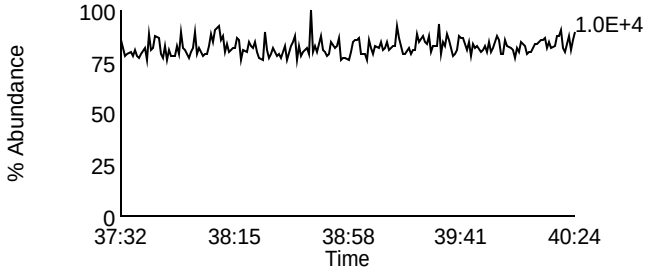


Homologue Group: Octas

Data File Name: P140321B_10
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486002 - BAL PASI-WI

Lab Sample ID: 10260486002
Client Sample ID: MAK113C
Instrument: 10MSHR09 (P)

Data File: P140321B_10 G5 C4 - 441.7428
SAMP 10260486002 - BAL PASI-WI



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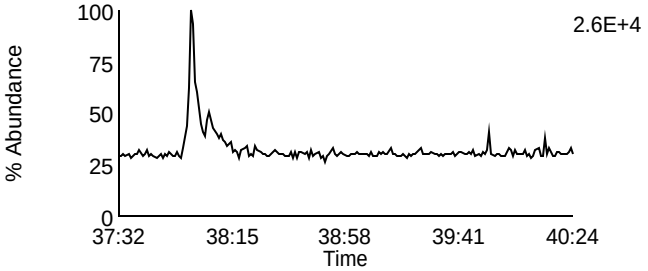
SAMP 10260486002 - BAL PASI-WI



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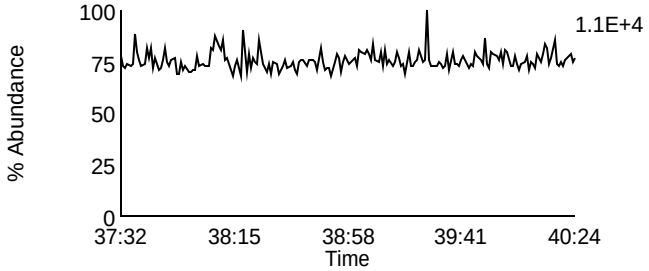
SAMP 10260486002 - BAL PASI-WI



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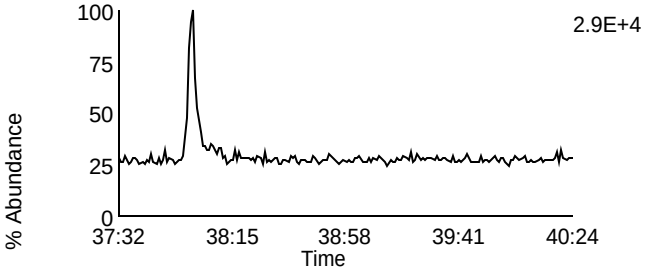
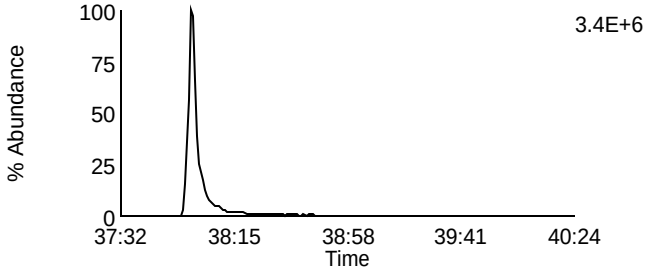
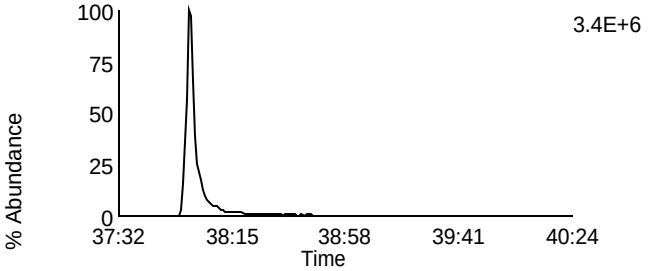
SAMP 10260486002 - BAL PASI-WI



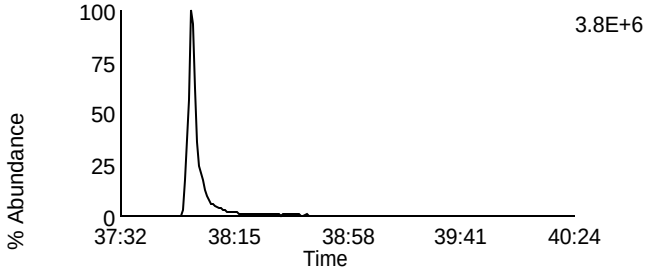
Data File: P140321B_10 G5 C11 - 469.7779
SAMP 10260486002 - BAL PASI-WI



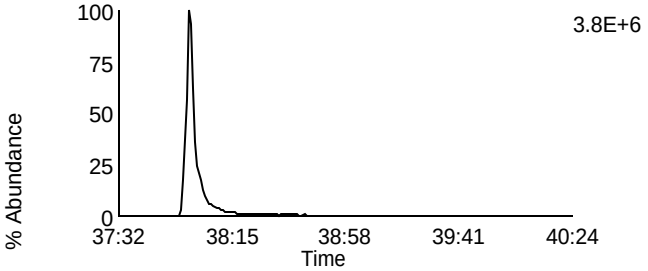
Data File: P140321B_10 G5 C11 - 469.7779
SAMP 10260486002 - BAL PASI-WI



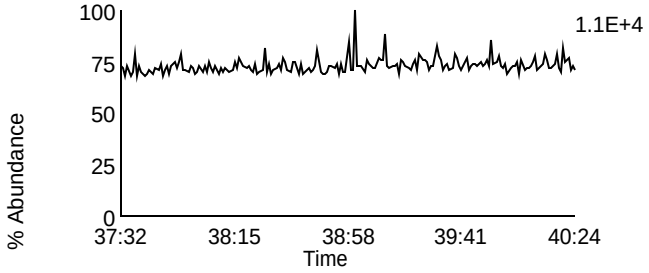
Data File: P140321B_10 G5 C12 - 471.7749
SAMP 10260486002 - BAL PASI-WI



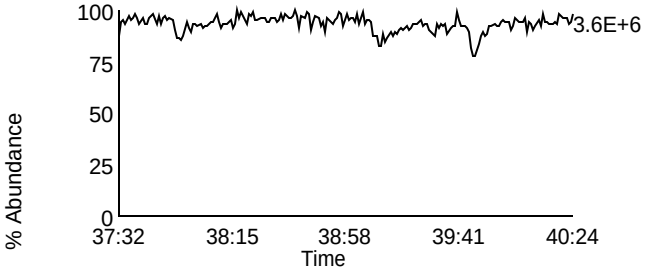
Data File: P140321B_10 G5 C12 - 471.7749
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G5 C13 - 513.6775
SAMP 10260486002 - BAL PASI-WI



Data File: P140321B_10 G5 C2 - 430.9728
SAMP 10260486002 - BAL PASI-WI

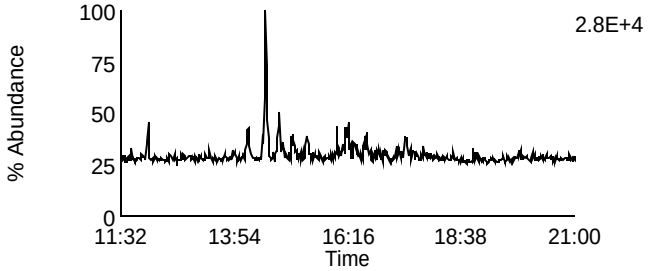


Homologue Group: Tetras

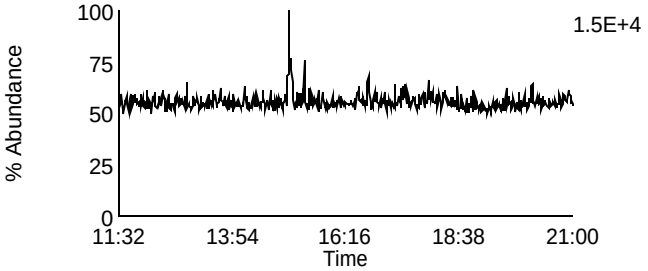
Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

Data File: P140321B_11 G1 C1 - 303.9016
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G1 C7 - 319.8965
SAMP 10260486003 - BAL PASI-WI



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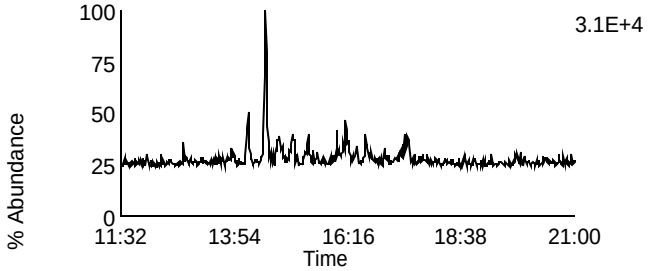
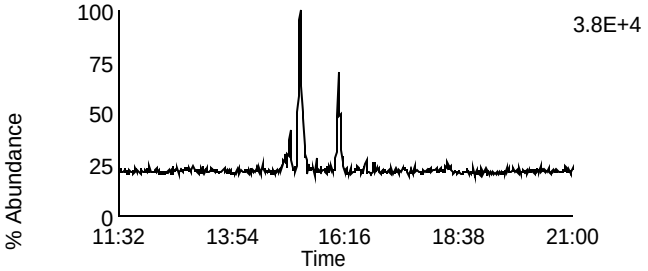
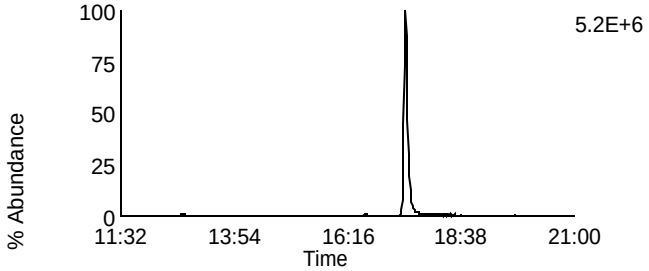
SAMP 10260486003 - BAL PASI-WI



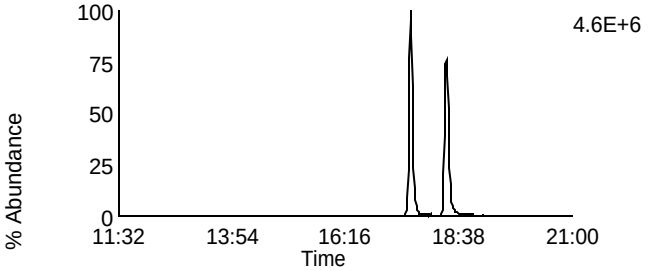
Data File: P140321B_11 G1 C8 - 321.8936
SAMP 10260486003 - BAL PASI-WI



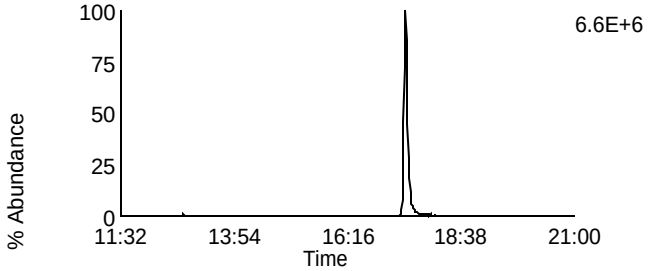
Data File: P140321B_11 G1 C3 - 315.9418
SAMP 10260486003 - BAL PASI-WI



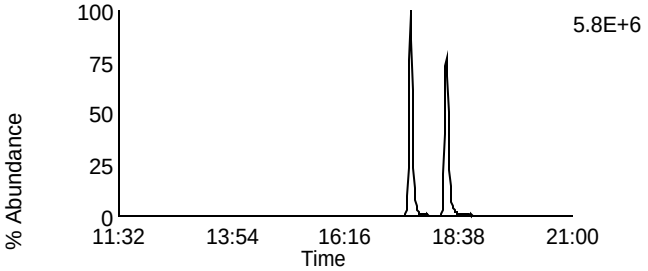
Data File: P140321B_11 G1 C10 - 331.9367
SAMP 10260486003 - BAL PASI-WI



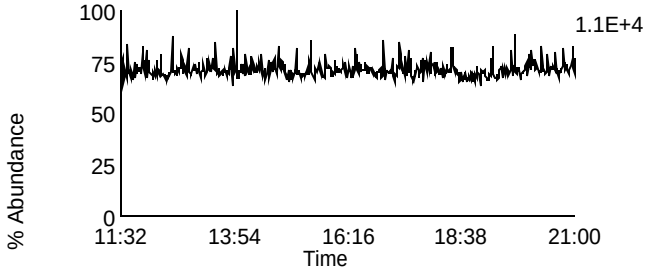
Data File: P140321B_11 G1 C4 - 317.9389
SAMP 10260486003 - BAL PASI-WI



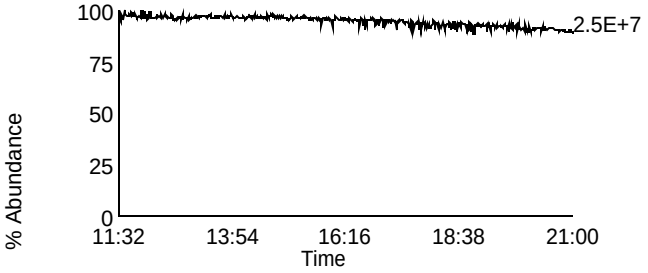
Data File: P140321B_11 G1 C11 - 333.9338
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G1 C14 - 375.8364
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G1 C5 - 318.9792
SAMP 10260486003 - BAL PASI-WI

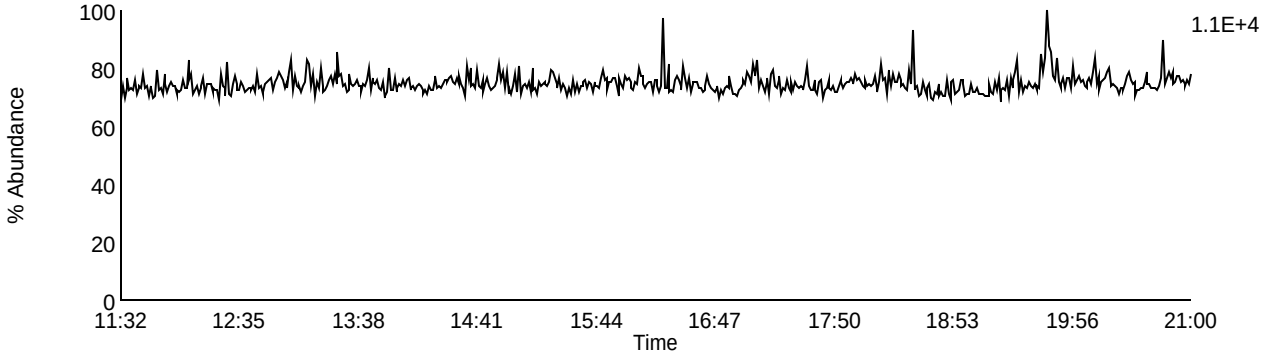


Homologue Group: Penta & Cleanup

Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

Data File: P140321B_11 G1 C12 - 339.8597
SAMP 10260486003 - BAL PASI-WI



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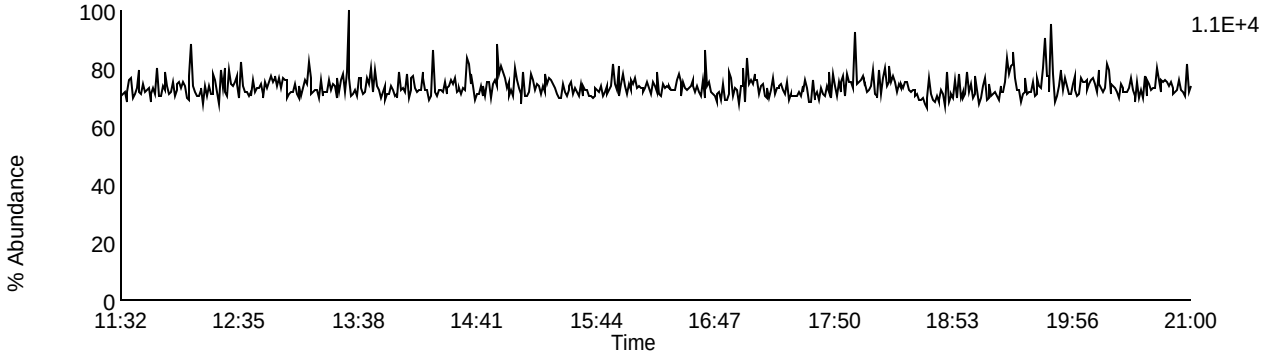
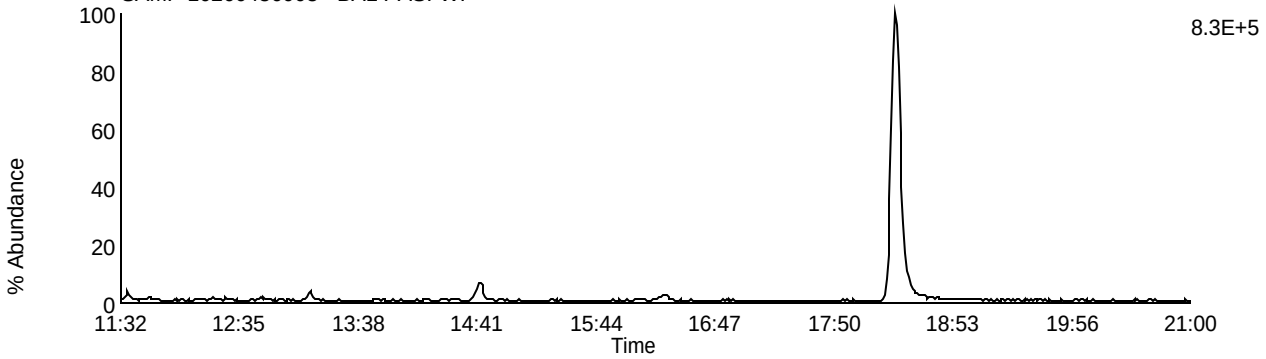
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G1 C9 - 327.8847
SAMP 10260486003 - BAL PASI-WI



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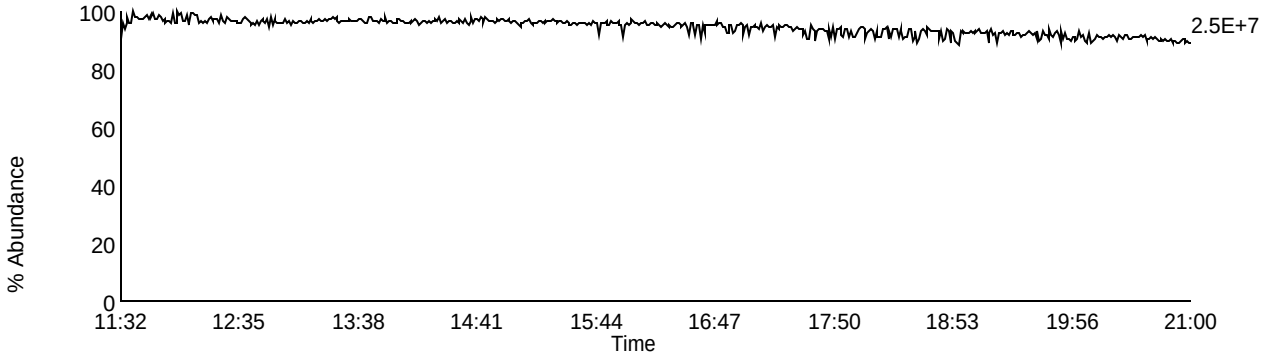
SAMP 10260486003 - BAL PASI-WI

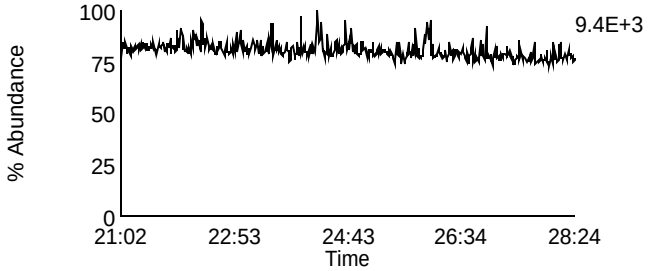


Homologue Group: Pentas

Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

Data File: P140321B_11 G2 C1 - 339.8597
SAMP 10260486003 - BAL PASI-WI



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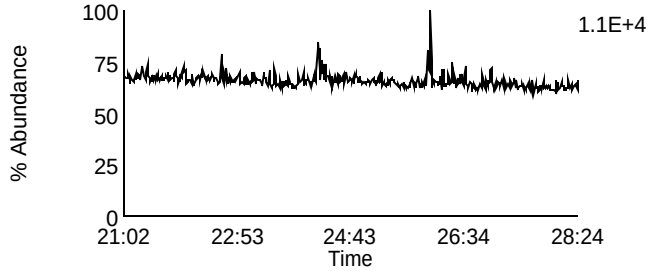
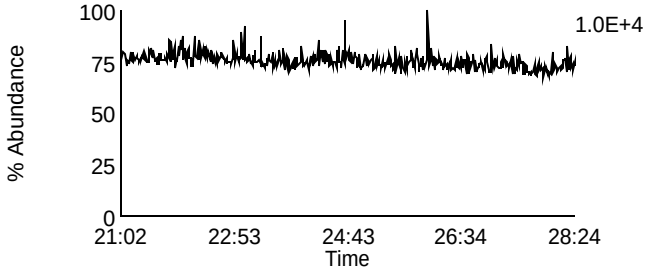
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G2 C2 - 341.8567
SAMP 10260486003 - BAL PASI-WI



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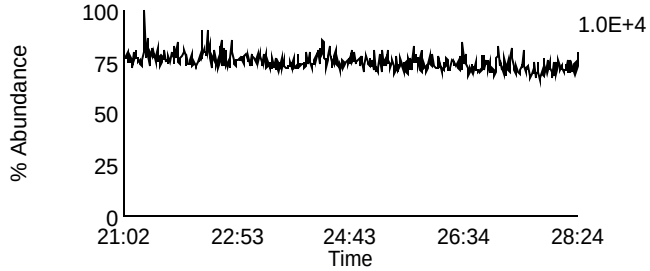
SAMP 10260486003 - BAL PASI-WI



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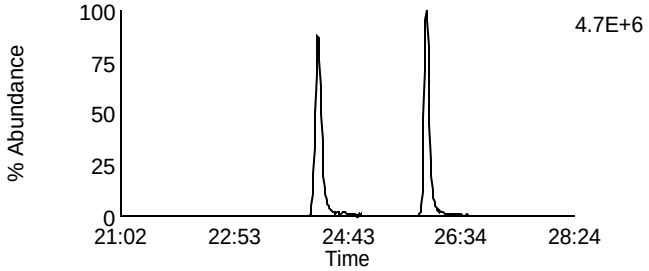
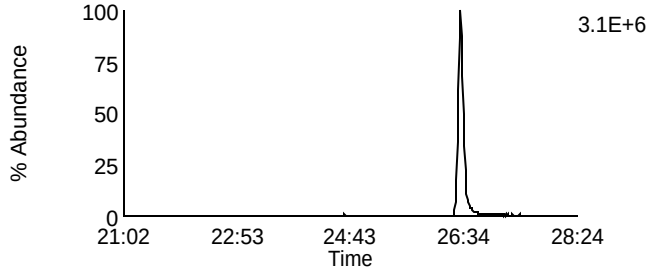
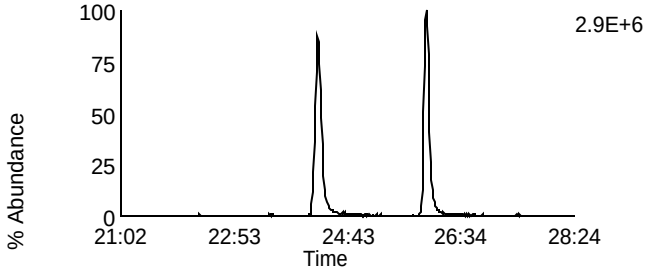
SAMP 10260486003 - BAL PASI-WI



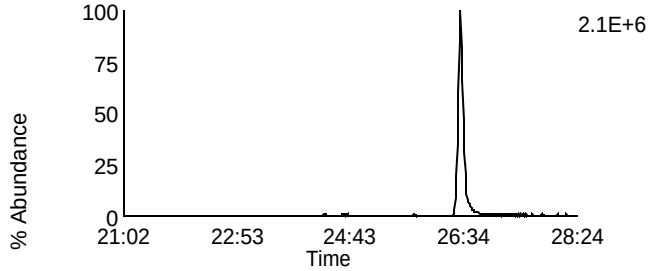
Data File: P140321B_11 G2 C10 - 367.8948
SAMP 10260486003 - BAL PASI-WI



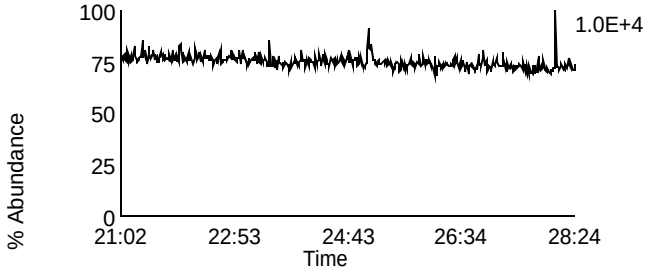
Data File: P140321B_11 G2 C5 - 353.8969
SAMP 10260486003 - BAL PASI-WI



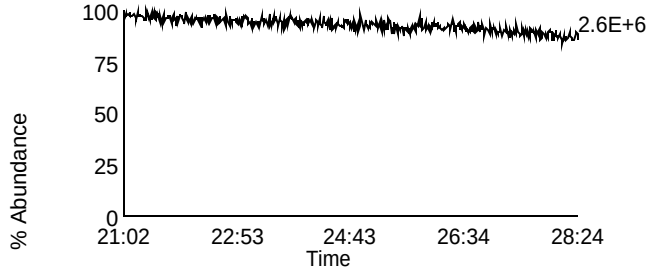
Data File: P140321B_11 G2 C11 - 369.8918
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G2 C12 - 409.7974
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G2 C6 - 354.9792
SAMP 10260486003 - BAL PASI-WI

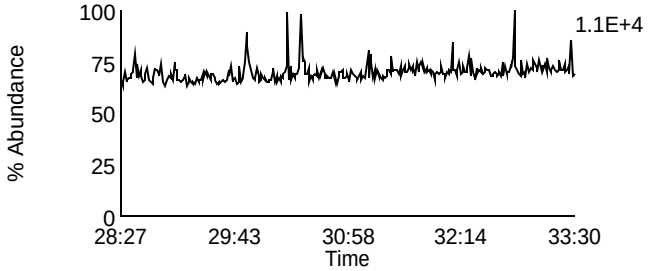


Homologue Group: Hexas

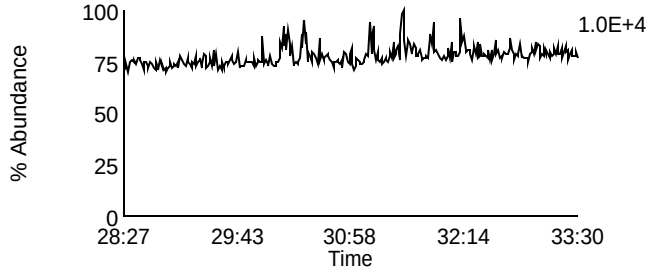
Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

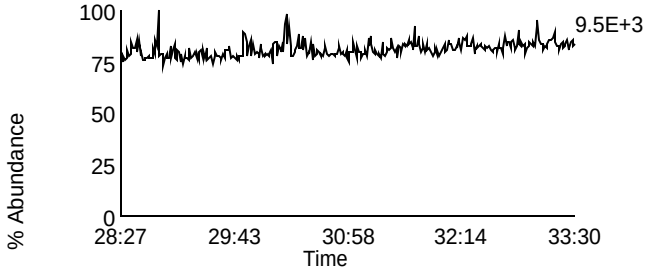
Data File: P140321B_11 G3 C1 - 373.8207
SAMP 10260486003 - BAL PASI-WI



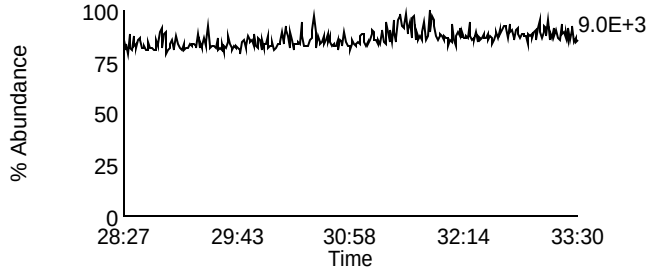
Data File: P140321B_11 G3 C7 - 389.8156
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G3 C2 - 375.8178
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G3 C8 - 391.8127
SAMP 10260486003 - BAL PASI-WI



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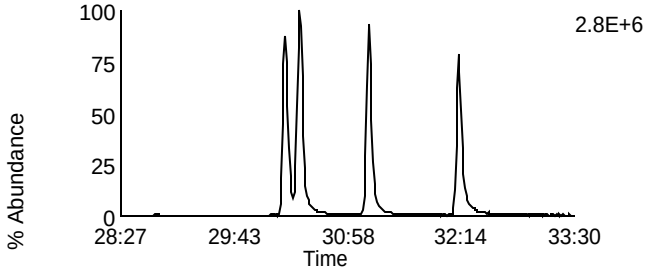
SAMP 10260486003 - BAL PASI-WI



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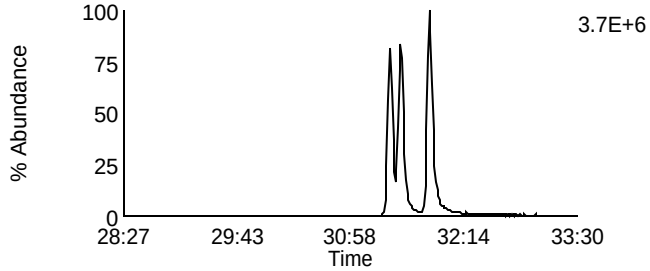
SAMP 10260486003 - BAL PASI-WI



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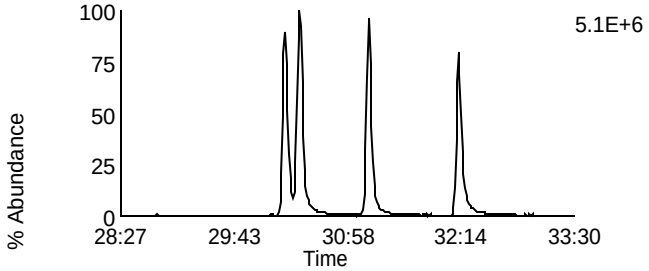
SAMP 10260486003 - BAL PASI-WI



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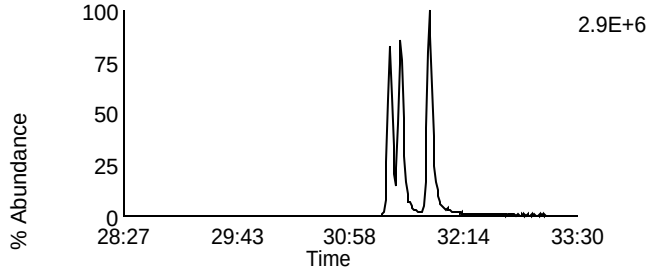
SAMP 10260486003 - BAL PASI-WI



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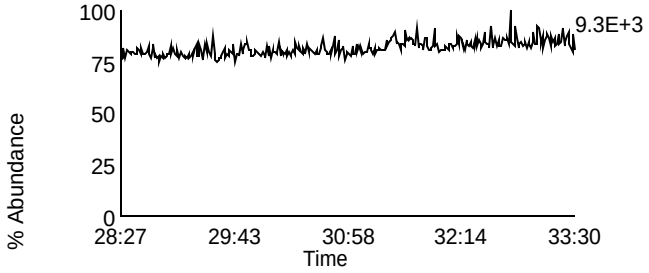
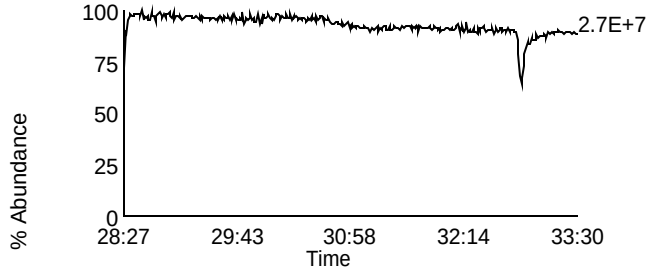
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G3 C3 - 380.976
SAMP 10260486003 - BAL PASI-WI

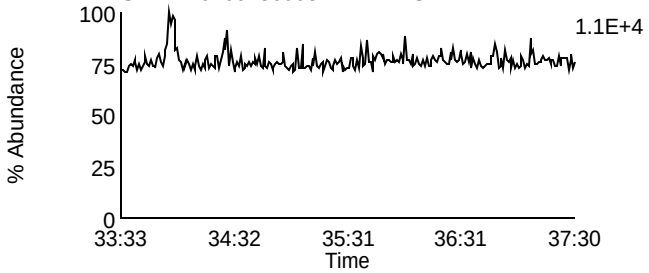


Homologue Group: Heptas

Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

Data File: P140321B_11 G4 C3 - 407.7818
SAMP 10260486003 - BAL PASI-WI



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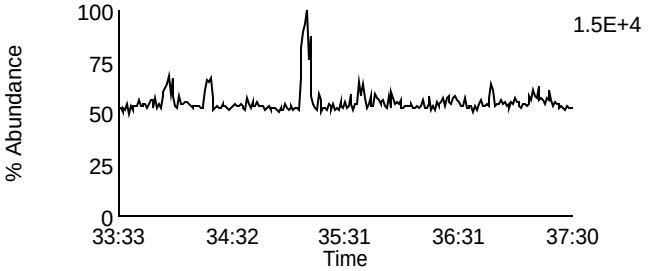
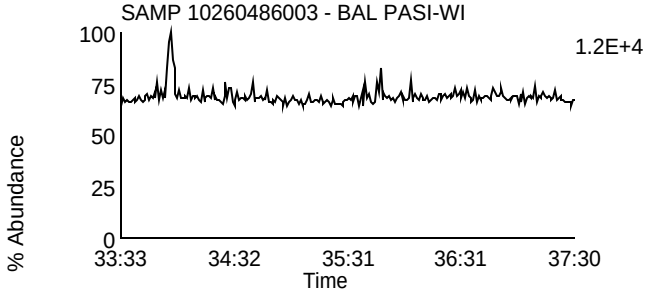
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G4 C4 - 409.7788
SAMP 10260486003 - BAL PASI-WI



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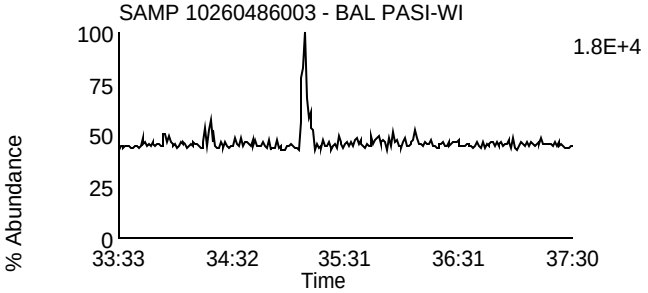
SAMP 10260486003 - BAL PASI-WI



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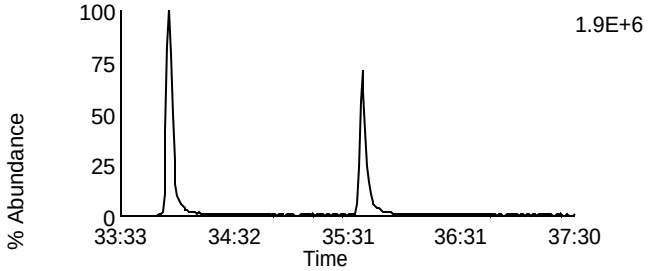
SAMP 10260486003 - BAL PASI-WI



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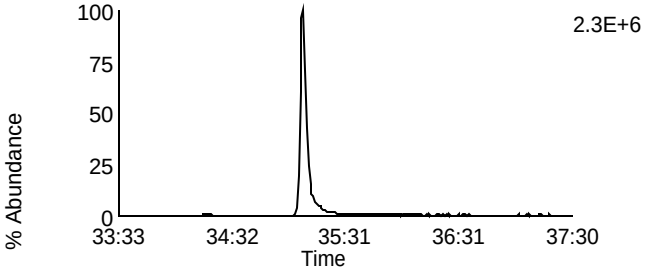
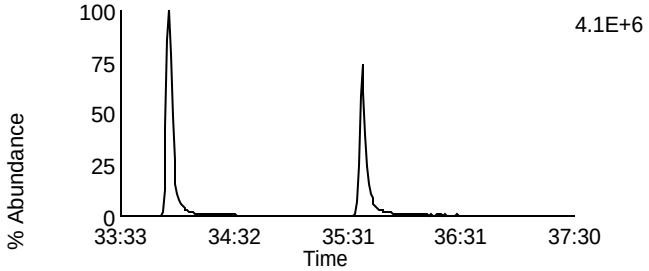
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G4 C7 - 419.822
SAMP 10260486003 - BAL PASI-WI



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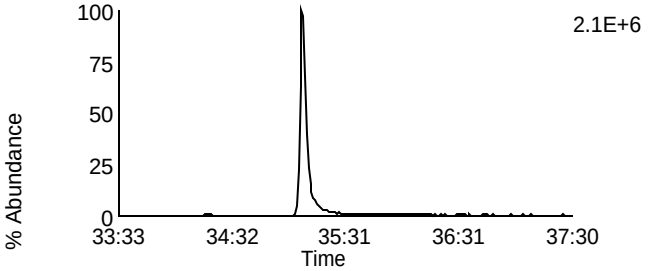
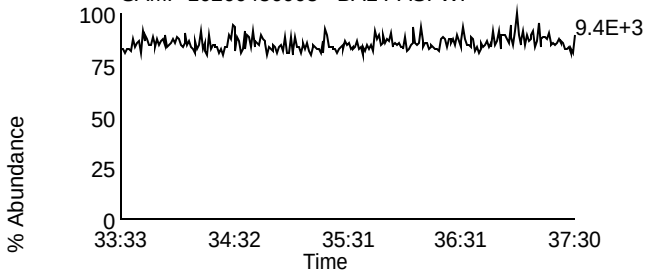
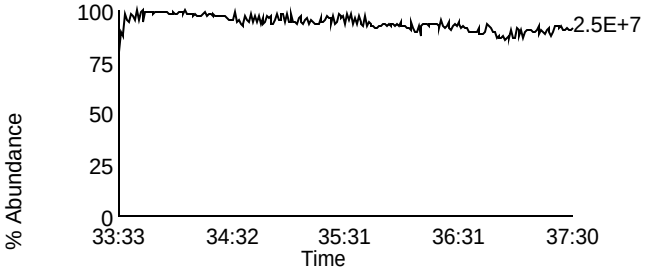
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G4 C13 - 479.7165
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G4 C1 - 380.976
SAMP 10260486003 - BAL PASI-WI

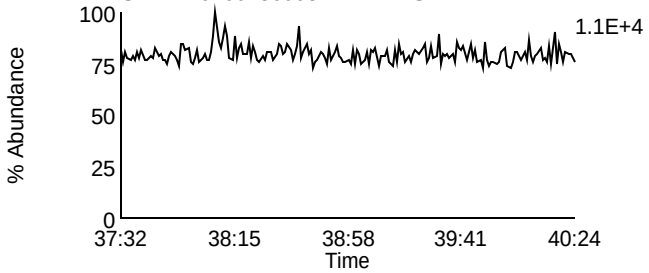


Homologue Group: Octas

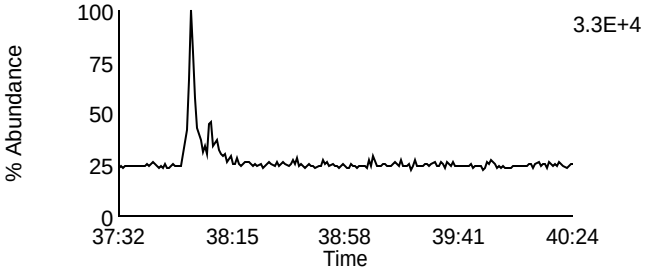
Data File Name: P140321B_11
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486003 - BAL PASI-WI

Lab Sample ID: 10260486003
Client Sample ID: MAK114C
Instrument: 10MSHR09 (P)

Data File: P140321B_11 G5 C4 - 441.7428
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G5 C8 - 457.7377
SAMP 10260486003 - BAL PASI-WI



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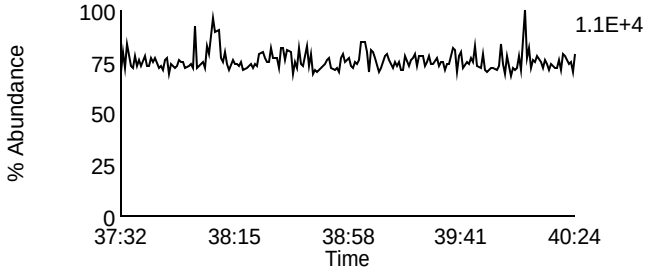
SAMP 10260486003 - BAL PASI-WI



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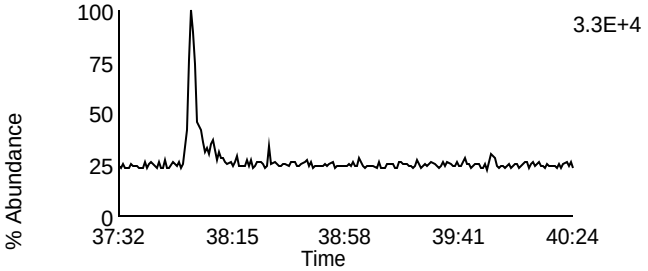
SAMP 10260486003 - BAL PASI-WI



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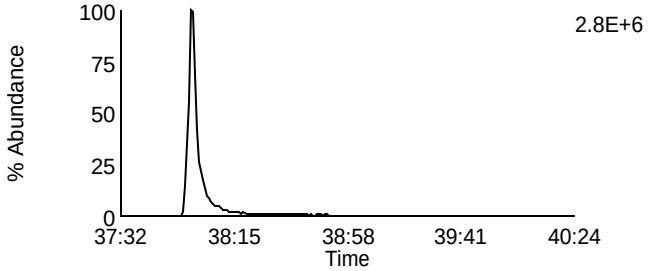
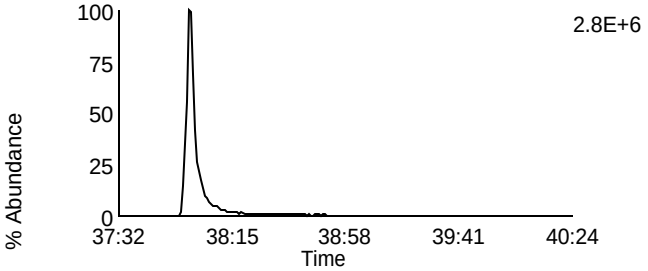
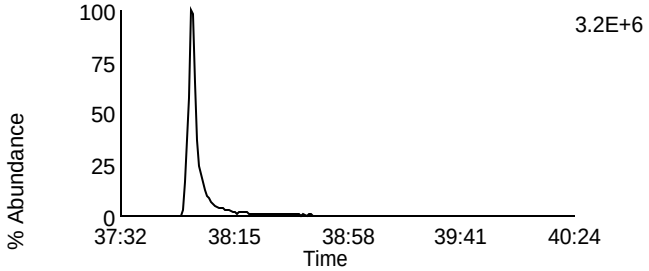
SAMP 10260486003 - BAL PASI-WI



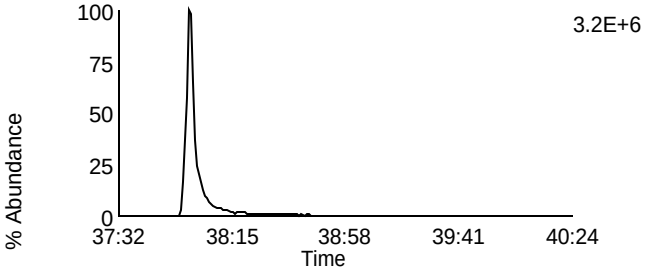
Data File: P140321B_11 G5 C11 - 469.7779
SAMP 10260486003 - BAL PASI-WI



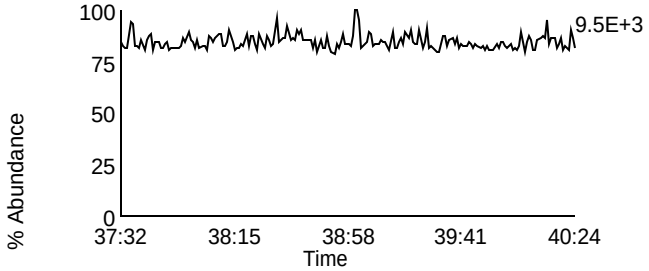
Data File: P140321B_11 G5 C12 - 471.7749
SAMP 10260486003 - BAL PASI-WI



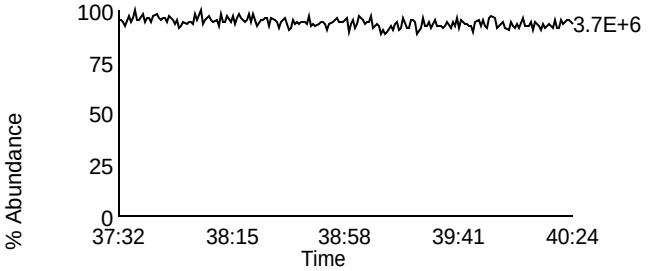
Data File: P140321B_11 G5 C12 - 471.7749
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G5 C13 - 513.6775
SAMP 10260486003 - BAL PASI-WI



Data File: P140321B_11 G5 C2 - 430.9728
SAMP 10260486003 - BAL PASI-WI

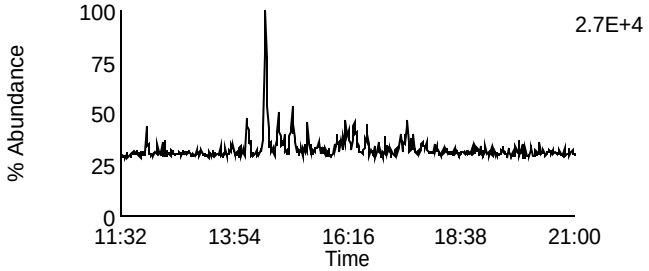


Homologue Group: Tetras

Data File Name: P140321B_12
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486004 - BAL PASI-WI

Lab Sample ID: 10260486004
Client Sample ID: MAK115C
Instrument: 10MSHR09 (P)

Data File: P140321B_12 G1 C1 - 303.9016
SAMP 10260486004 - BAL PASI-WI



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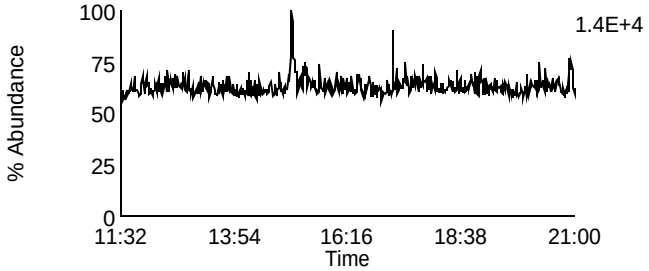
SAMP 10260486004 - BAL PASI-WI



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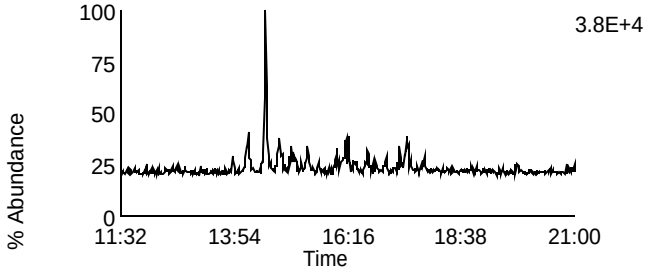
SAMP 10260486004 - BAL PASI-WI



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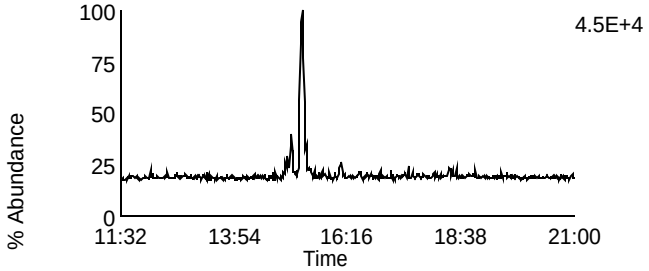
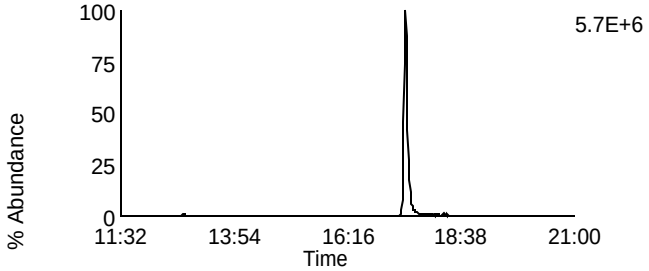
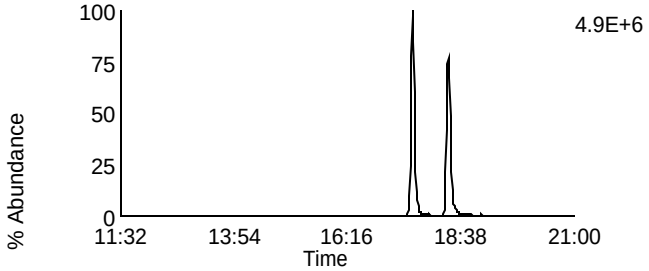
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G1 C3 - 315.9418
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G1 C10 - 331.9367
SAMP 10260486004 - BAL PASI-WI



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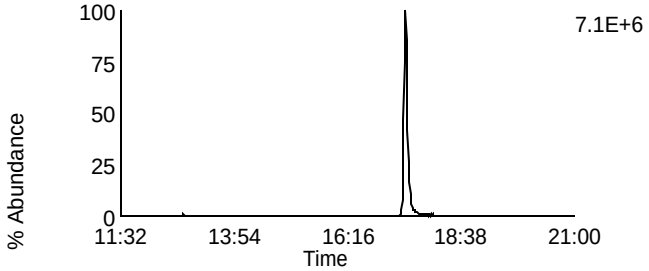
SAMP 10260486004 - BAL PASI-WI



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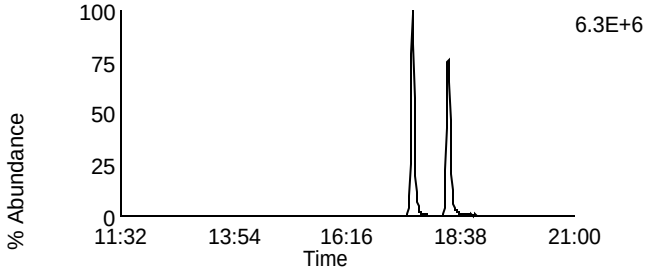
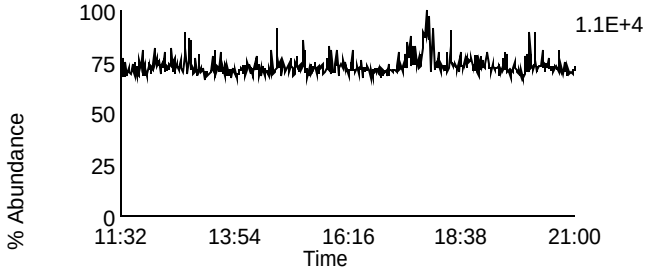
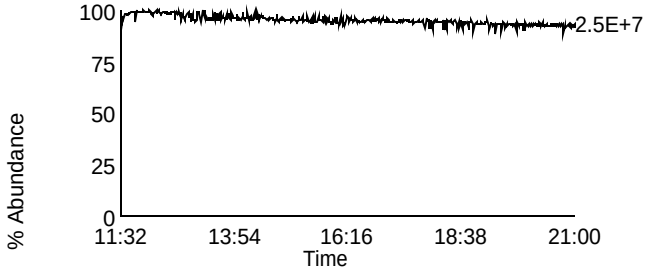
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G1 C14 - 375.8364
SAMP 10260486004 - BAL PASI-WI



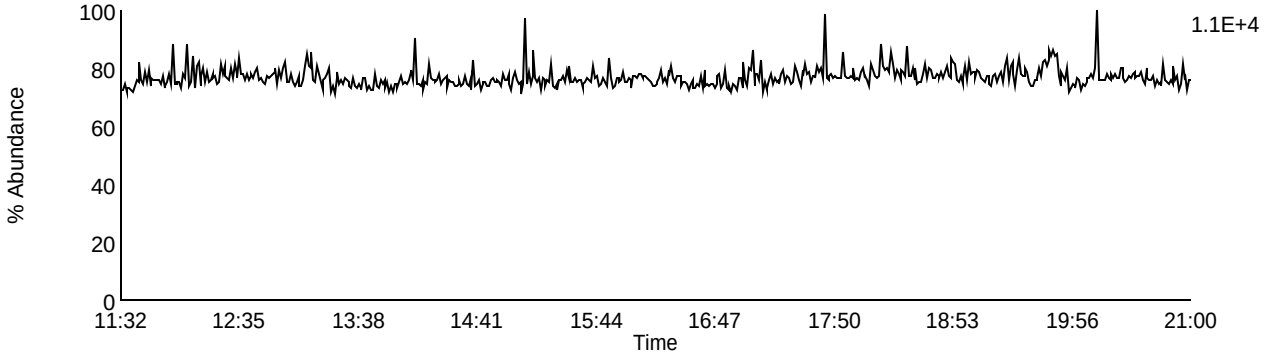
Data File: P140321B_12 G1 C5 - 318.9792
SAMP 10260486004 - BAL PASI-WI



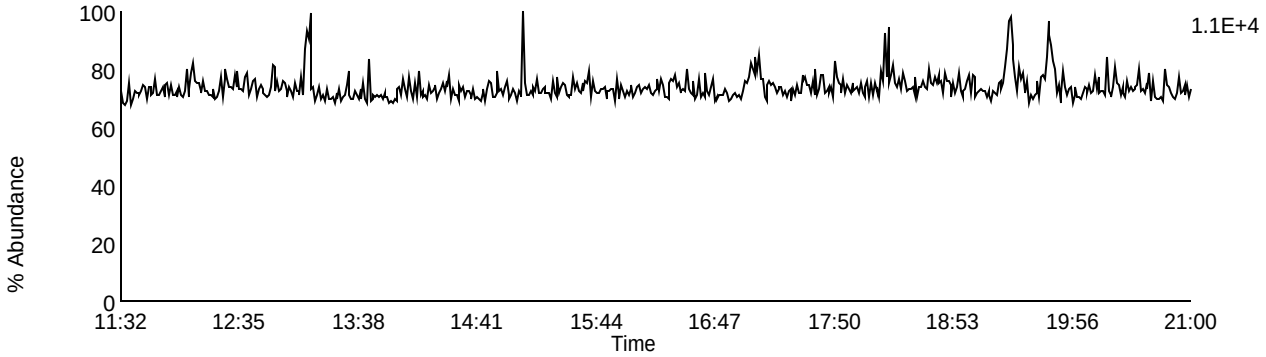
Homologue Group: Penta & Cleanup

Data File Name: P140321B_12	Lab Sample ID: 10260486004
Date Acquired: 3/21/2014	Client Sample ID: MAK115C
Sample Description: SAMP 10260486004 - BAL PASI-WI	Instrument: 10MSHR09 (P)

Data File: P140321B_12 G1 C12 - 339.8597
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G1 C13 - 341.8567
SAMP 10260486004 - BAL PASI-WI



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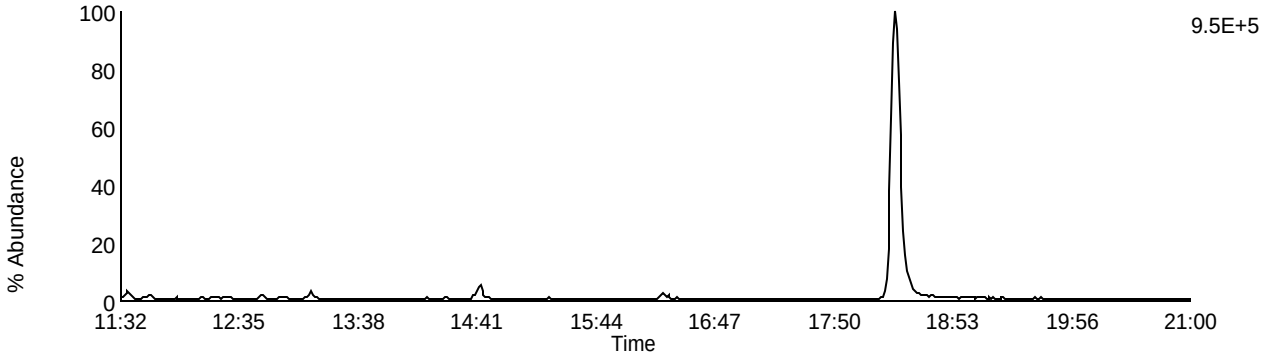
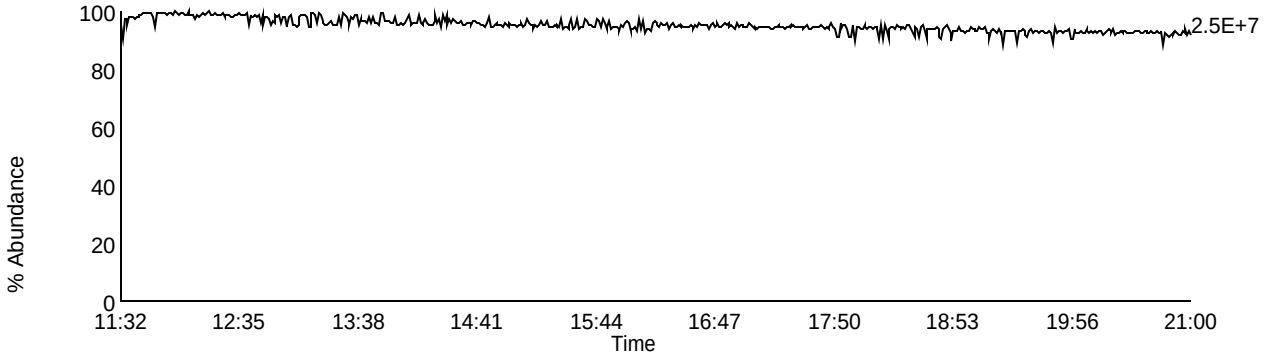
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G1 C5 - 318.9792
SAMP 10260486004 - BAL PASI-WI

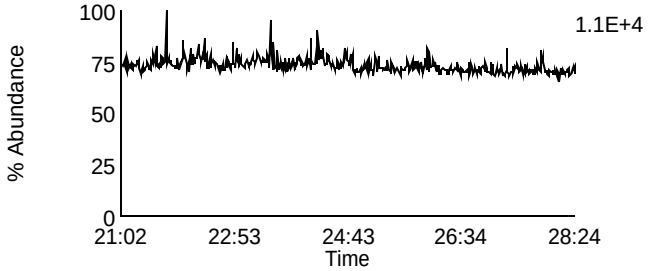


Homologue Group: Pentas

Data File Name: P140321B_12
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486004 - BAL PASI-WI

Lab Sample ID: 10260486004
Client Sample ID: MAK115C
Instrument: 10MSHR09 (P)

Data File: P140321B_12 G2 C1 - 339.8597
SAMP 10260486004 - BAL PASI-WI



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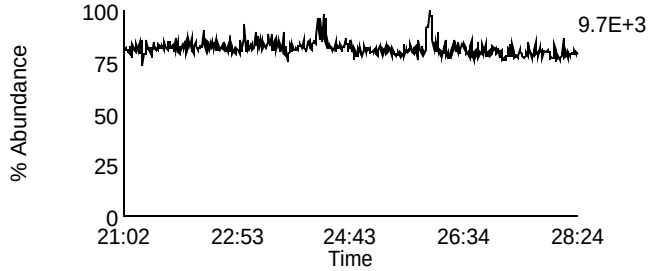
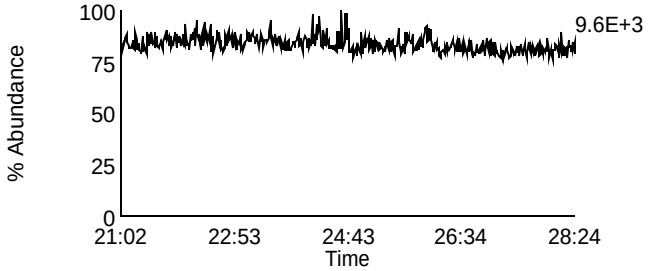
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G2 C2 - 341.8567
SAMP 10260486004 - BAL PASI-WI



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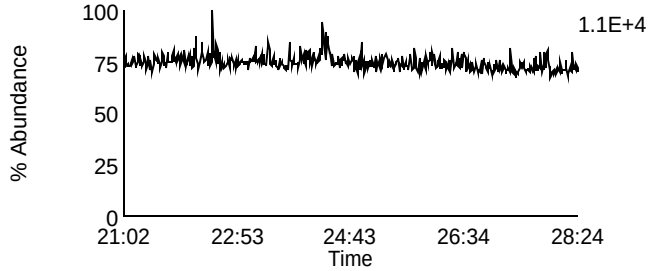
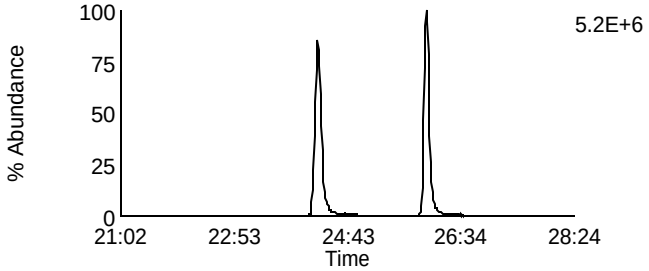
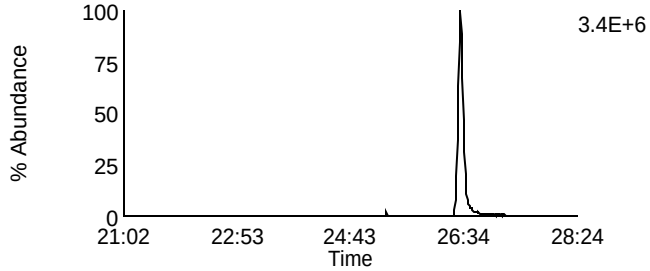
SAMP 10260486004 - BAL PASI-WI



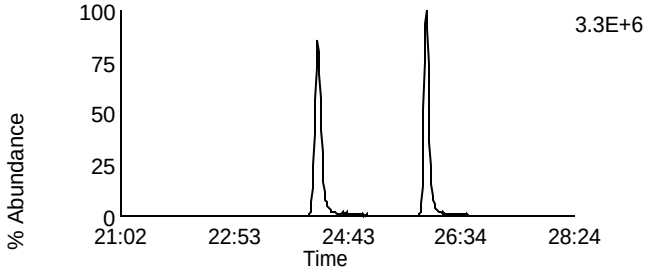
Data File: P140321B_12 G2 C3 - 351.8999
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G2 C10 - 367.8948
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G2 C5 - 353.8969
SAMP 10260486004 - BAL PASI-WI



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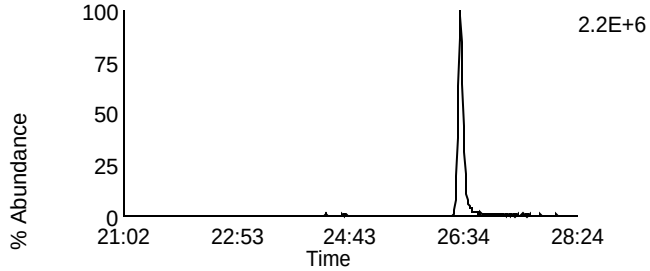
SAMP 10260486004 - BAL PASI-WI



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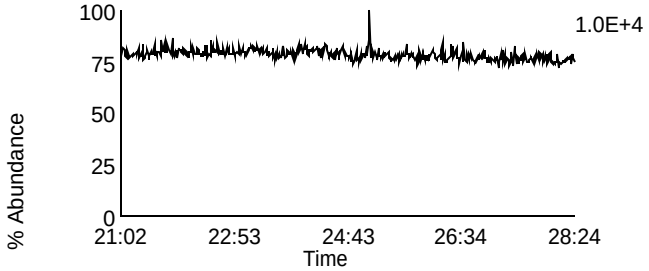
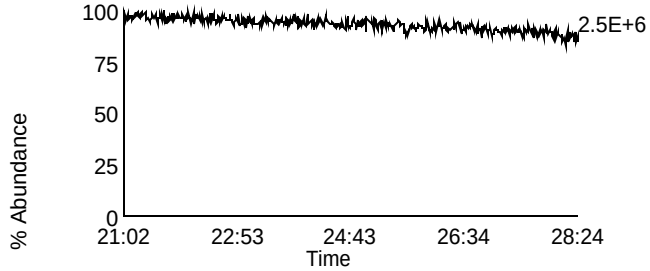
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G2 C6 - 354.9792
SAMP 10260486004 - BAL PASI-WI

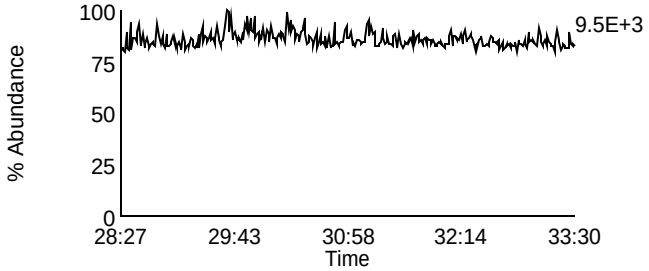


Homologue Group: Hexas

Data File Name: P140321B_12
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486004 - BAL PASI-WI

Lab Sample ID: 10260486004
Client Sample ID: MAK115C
Instrument: 10MSHR09 (P)

Data File: P140321B_12 G3 C1 - 373.8207
SAMP 10260486004 - BAL PASI-WI



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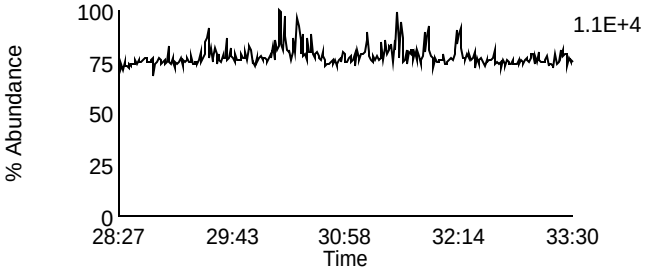
SAMP 10260486004 - BAL PASI-WI



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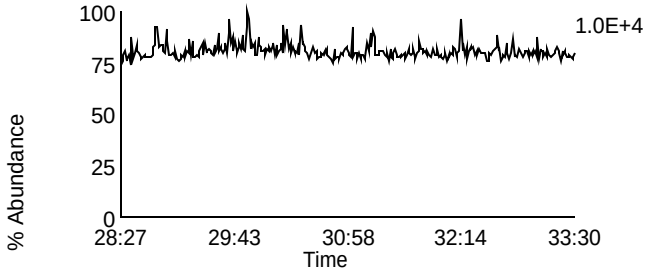
SAMP 10260486004 - BAL PASI-WI



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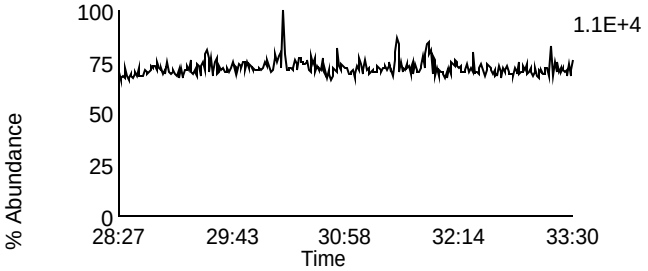
SAMP 10260486004 - BAL PASI-WI



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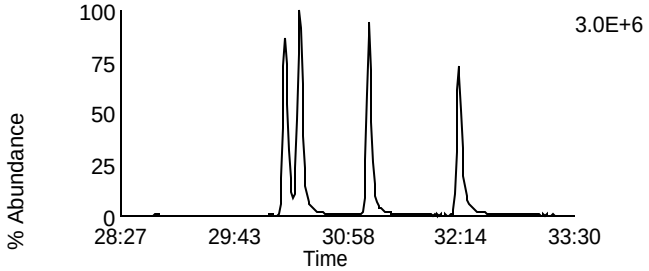
SAMP 10260486004 - BAL PASI-WI



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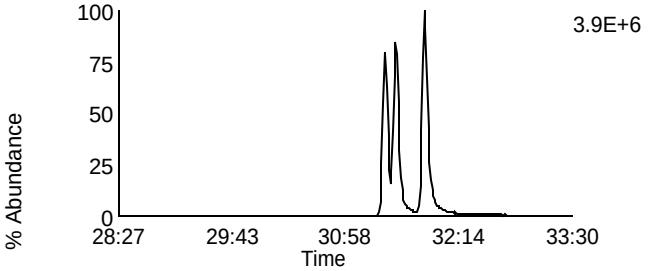
SAMP 10260486004 - BAL PASI-WI



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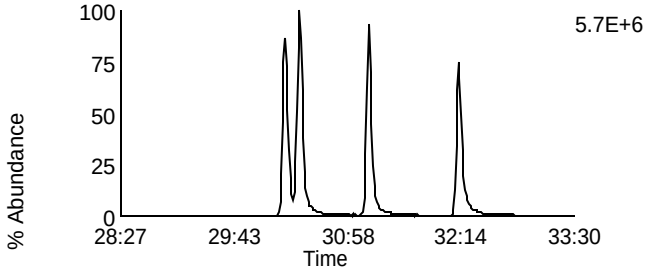
SAMP 10260486004 - BAL PASI-WI



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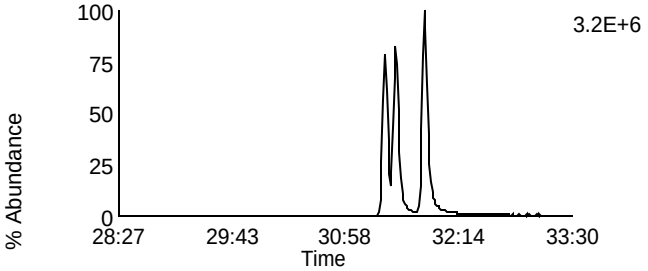

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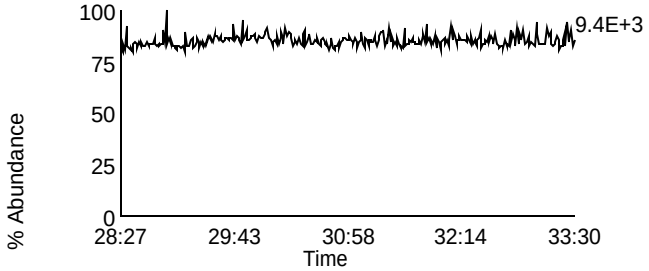
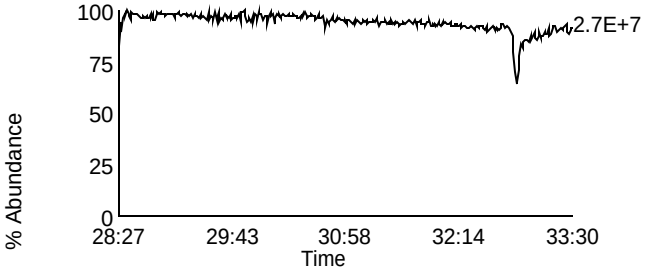
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G3 C3 - 380.976
SAMP 10260486004 - BAL PASI-WI

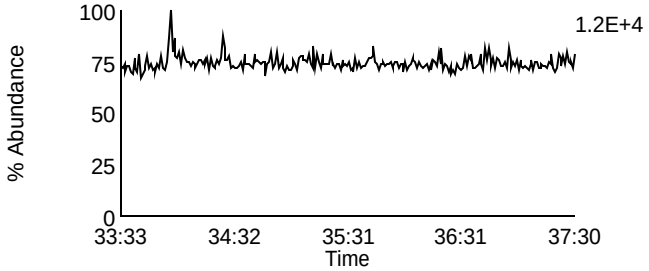


Homologue Group: Heptas

Data File Name: P140321B_12
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486004 - BAL PASI-WI

Lab Sample ID: 10260486004
Client Sample ID: MAK115C
Instrument: 10MSHR09 (P)

Data File: P140321B_12 G4 C3 - 407.7818
SAMP 10260486004 - BAL PASI-WI



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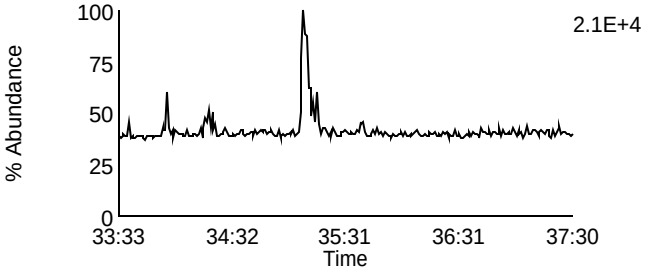
SAMP 10260486004 - BAL PASI-WI



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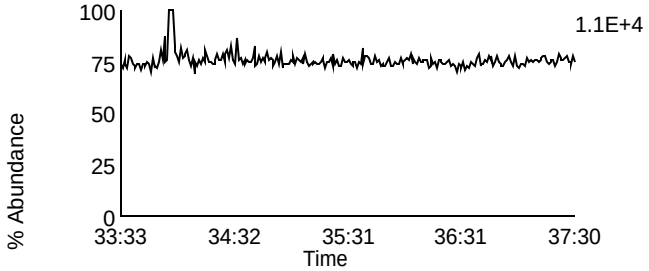
SAMP 10260486004 - BAL PASI-WI



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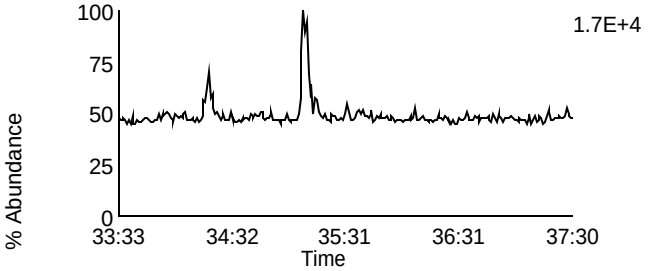
SAMP 10260486004 - BAL PASI-WI



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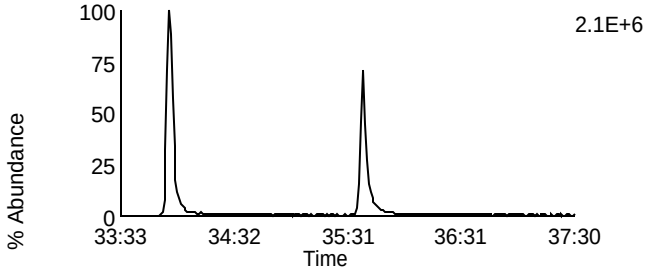
SAMP 10260486004 - BAL PASI-WI



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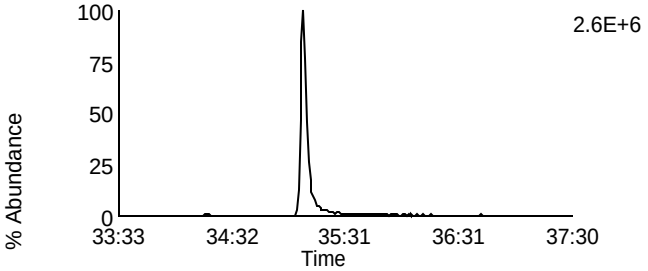
SAMP 10260486004 - BAL PASI-WI



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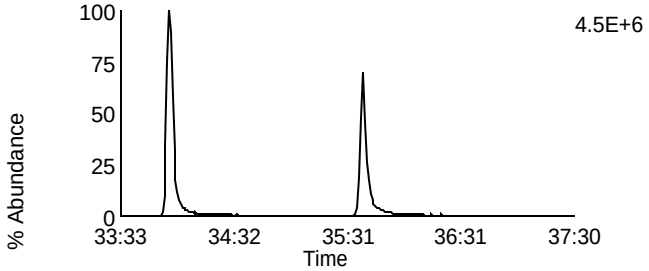
SAMP 10260486004 - BAL PASI-WI



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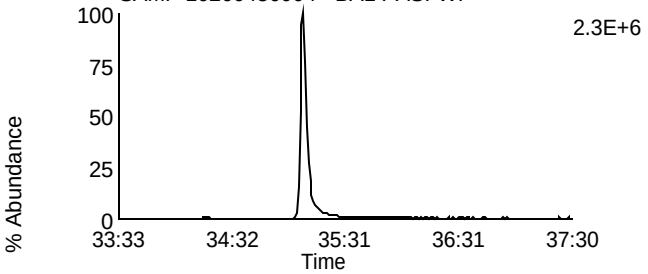
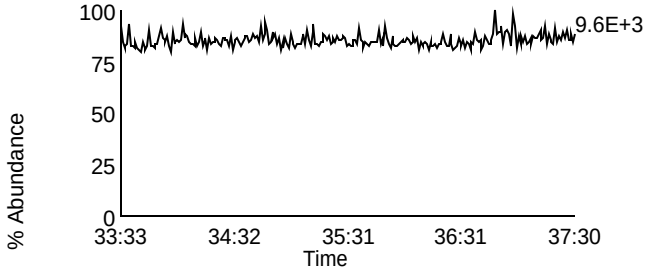
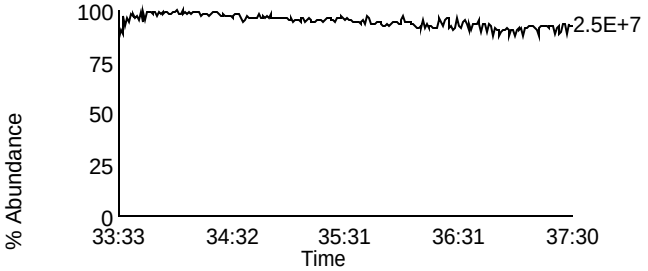
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G4 C13 - 479.7165
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G4 C1 - 380.976
SAMP 10260486004 - BAL PASI-WI

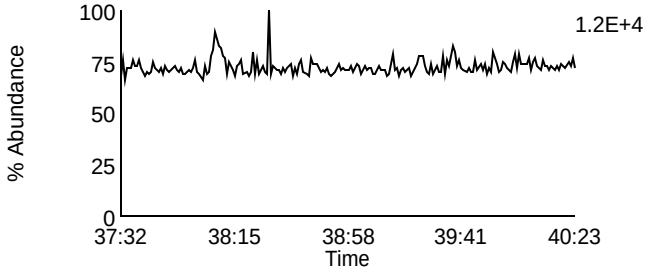


Homologue Group: Octas

Data File Name: P140321B_12
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486004 - BAL PASI-WI

Lab Sample ID: 10260486004
Client Sample ID: MAK115C
Instrument: 10MSHR09 (P)

Data File: P140321B_12 G5 C4 - 441.7428
SAMP 10260486004 - BAL PASI-WI



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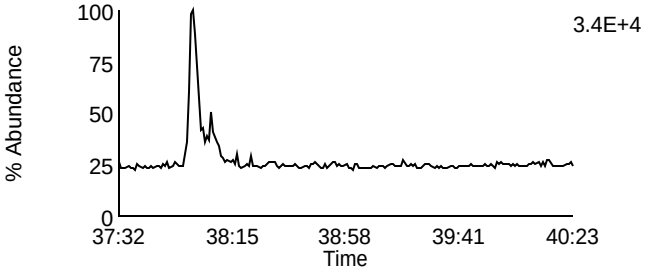
SAMP 10260486004 - BAL PASI-WI



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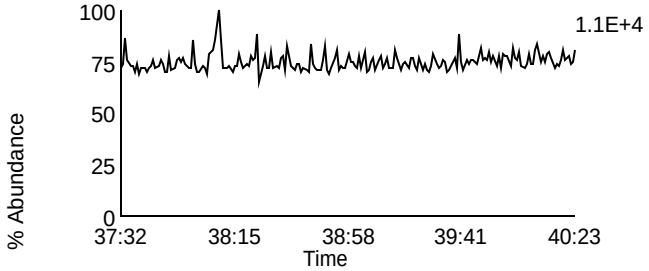
SAMP 10260486004 - BAL PASI-WI



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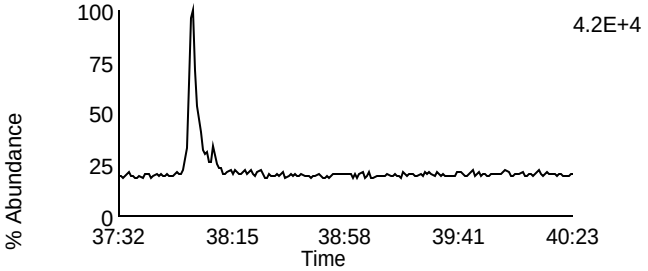
SAMP 10260486004 - BAL PASI-WI



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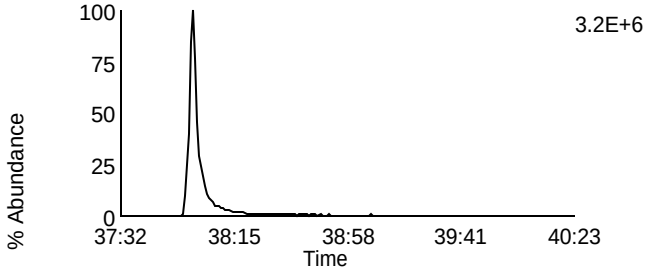
SAMP 10260486004 - BAL PASI-WI



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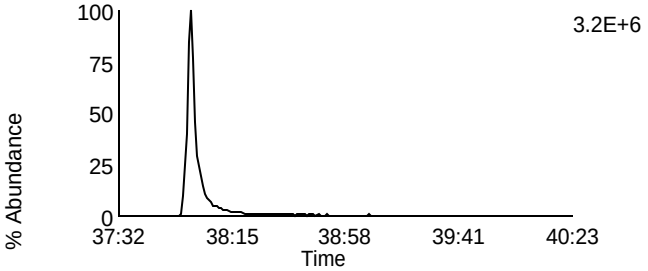
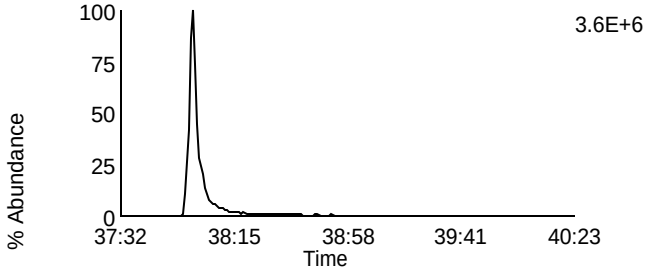
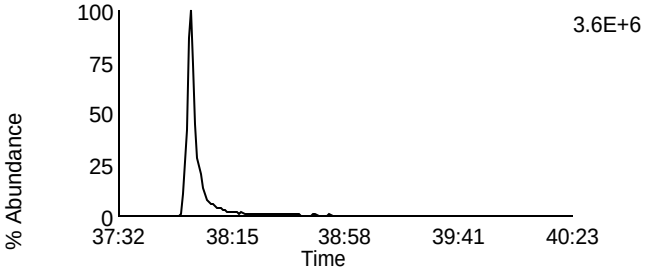
SAMP 10260486004 - BAL PASI-WI



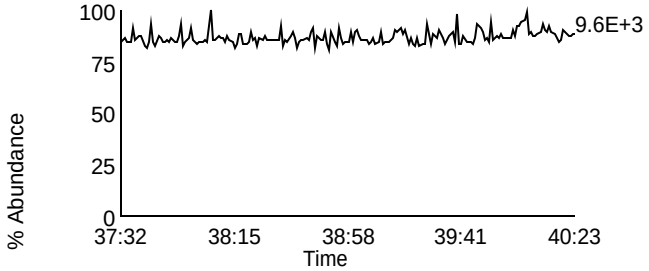
Data File: P140321B_12 G5 C12 - 471.7749
SAMP 10260486004 - BAL PASI-WI



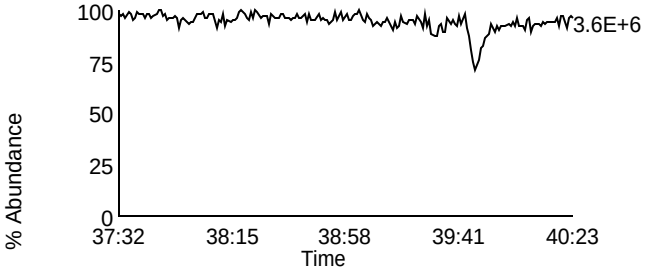
Data File: P140321B_12 G5 C12 - 471.7749
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G5 C13 - 513.6775
SAMP 10260486004 - BAL PASI-WI



Data File: P140321B_12 G5 C2 - 430.9728
SAMP 10260486004 - BAL PASI-WI

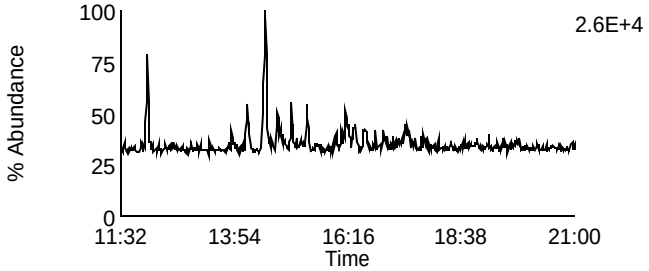


Homologue Group: Tetras

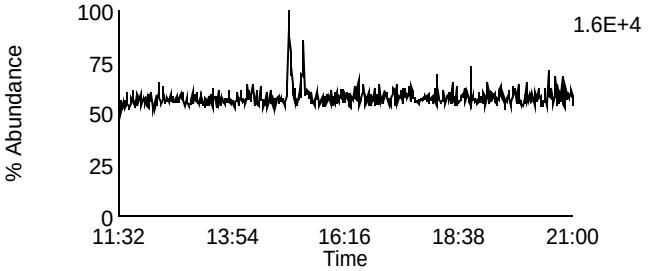
Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

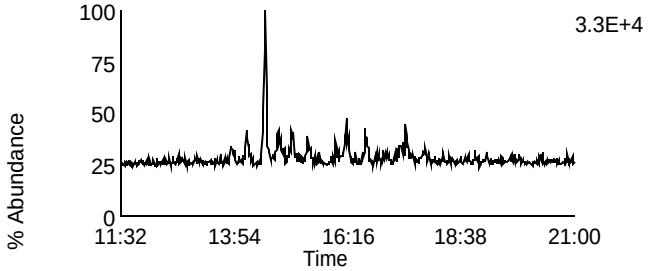
Data File: P140321B_13 G1 C1 - 303.9016
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C7 - 319.8965
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C2 - 305.8987
SAMP 10260486005 - BAL PASI-WI



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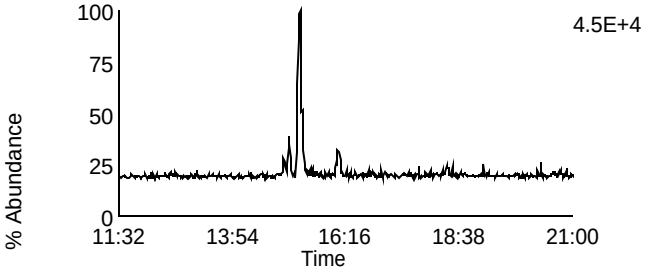
SAMP 10260486005 - BAL PASI-WI



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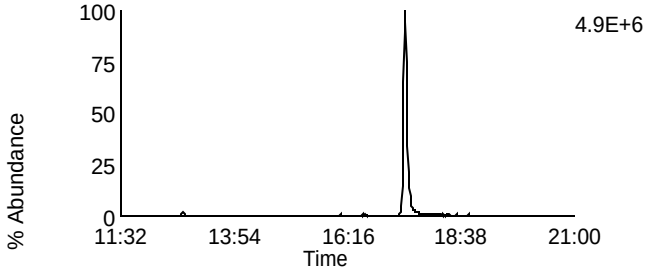
SAMP 10260486005 - BAL PASI-WI



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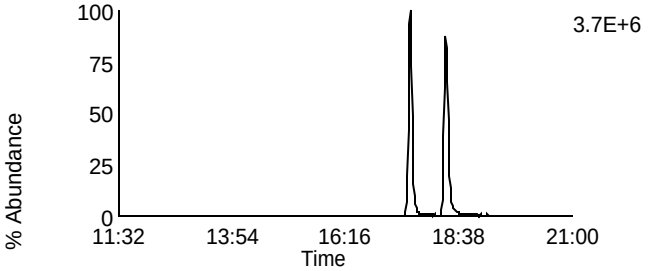
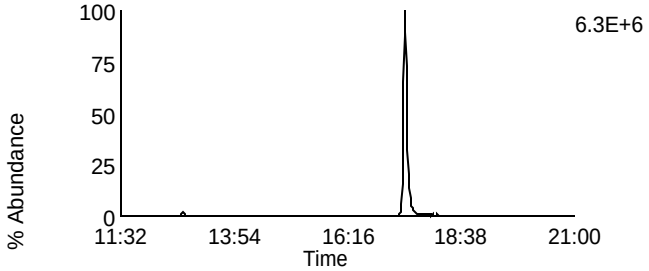
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C4 - 317.9389
SAMP 10260486005 - BAL PASI-WI



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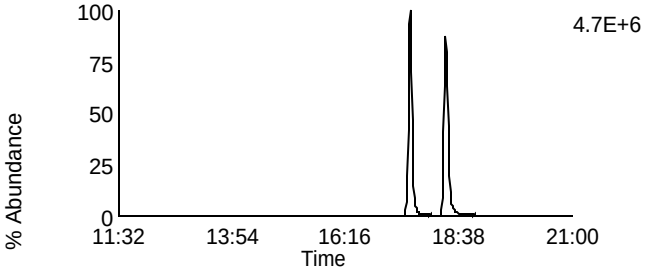
SAMP 10260486005 - BAL PASI-WI



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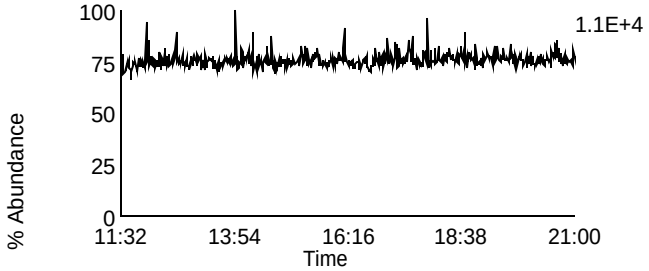
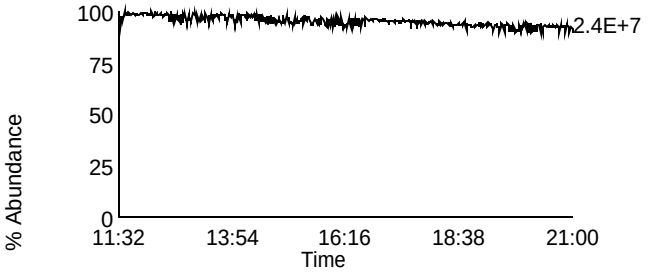
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C5 - 318.9792
SAMP 10260486005 - BAL PASI-WI

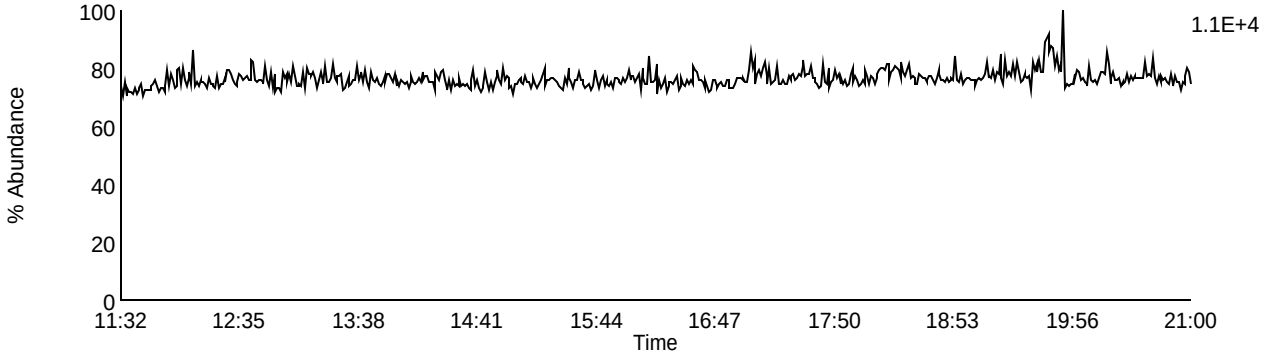


Homologue Group: Penta & Cleanup

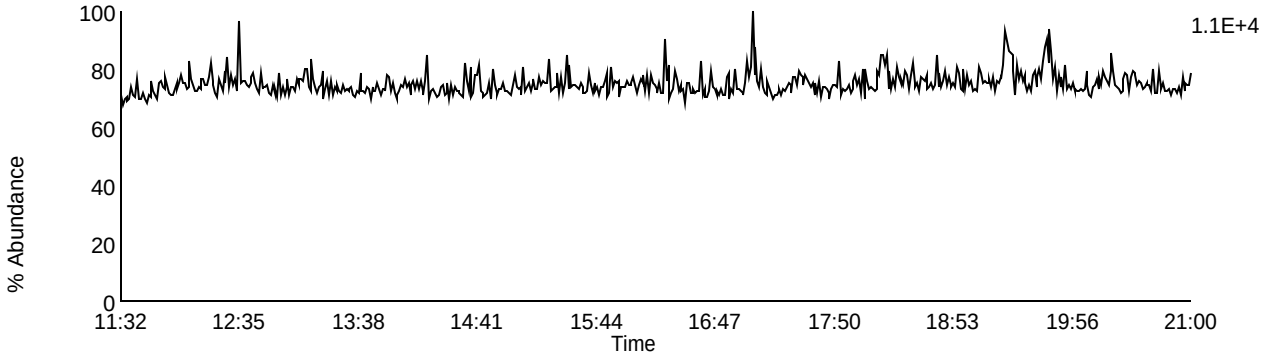
Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

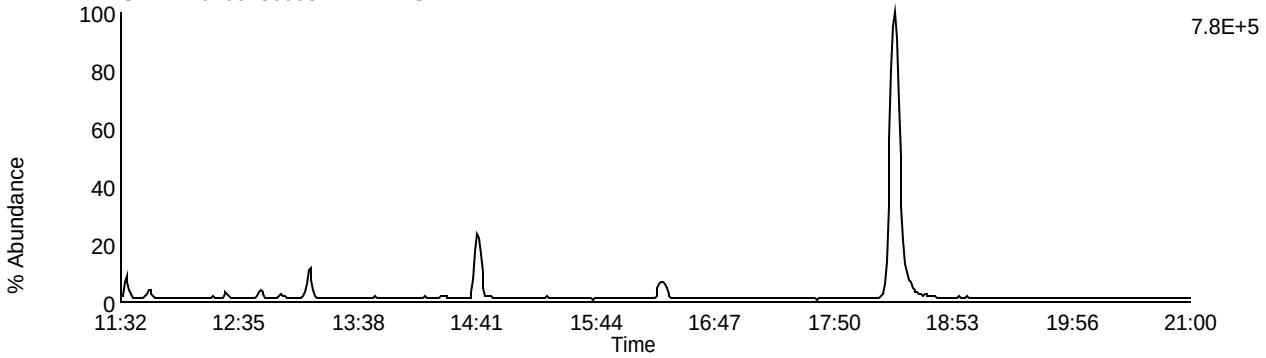
Data File: P140321B_13 G1 C12 - 339.8597
SAMP 10260486005 - BAL PASI-WI



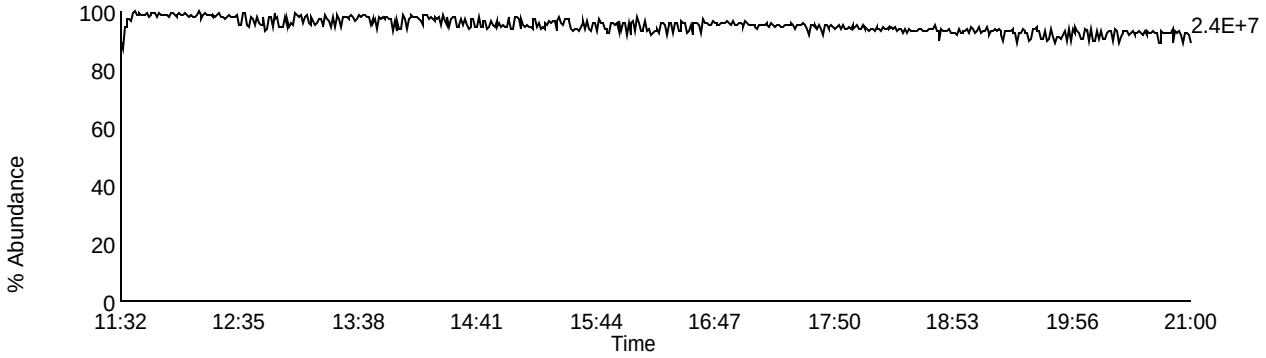
Data File: P140321B_13 G1 C13 - 341.8567
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C9 - 327.8847
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G1 C5 - 318.9792
SAMP 10260486005 - BAL PASI-WI

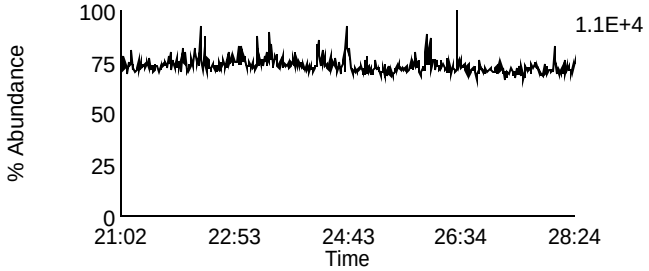


Homologue Group: Pentas

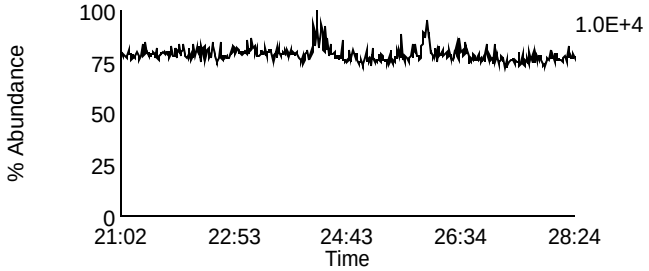
Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

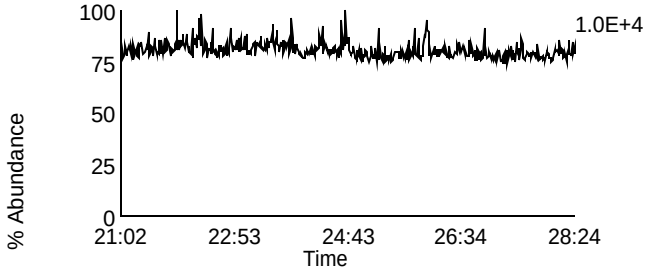
Data File: P140321B_13 G2 C1 - 339.8597
SAMP 10260486005 - BAL PASI-WI



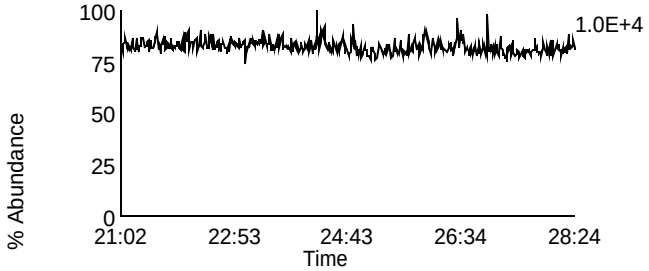
Data File: P140321B_13 G2 C4 - 353.8576
SAMP 10260486005 - BAL PASI-WI



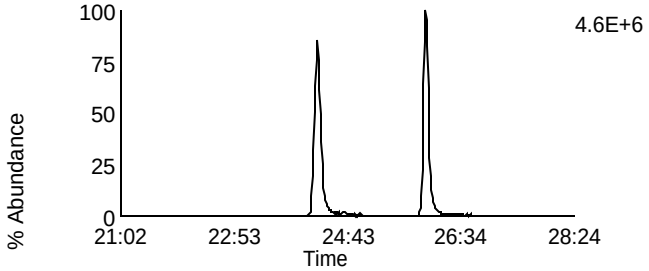
Data File: P140321B_13 G2 C2 - 341.8567
SAMP 10260486005 - BAL PASI-WI



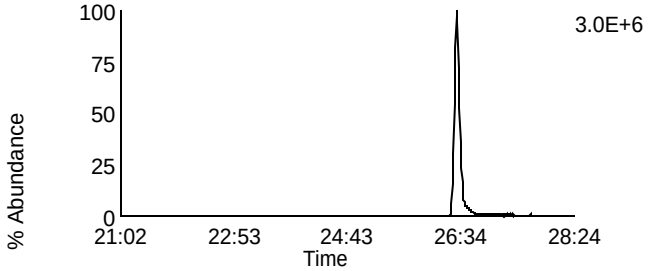
Data File: P140321B_13 G2 C8 - 355.8546
SAMP 10260486005 - BAL PASI-WI



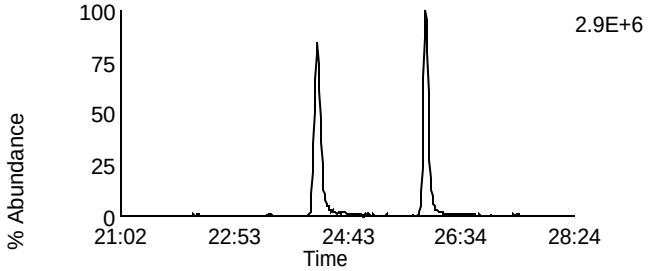
Data File: P140321B_13 G2 C3 - 351.8999
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G2 C10 - 367.8948
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G2 C5 - 353.8969
SAMP 10260486005 - BAL PASI-WI



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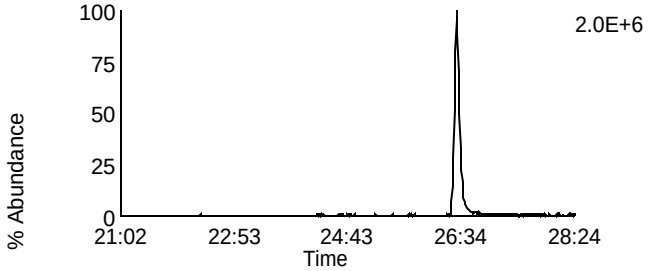
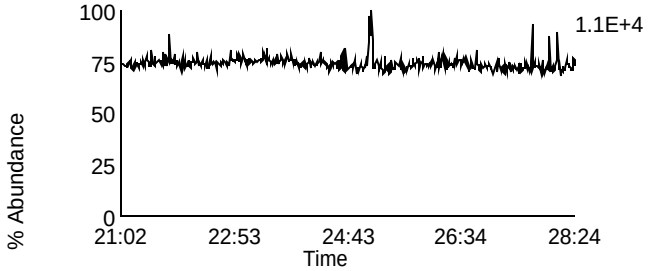
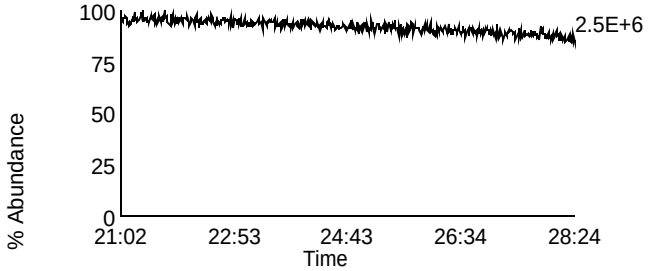
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G2 C12 - 409.7974
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G2 C6 - 354.9792
SAMP 10260486005 - BAL PASI-WI

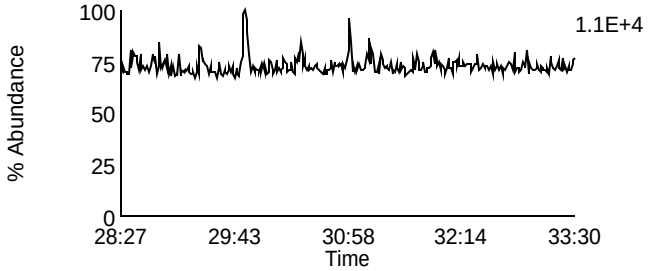


Homologue Group: Hexas

Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

Data File: P140321B_13 G3 C1 - 373.8207
SAMP 10260486005 - BAL PASI-WI



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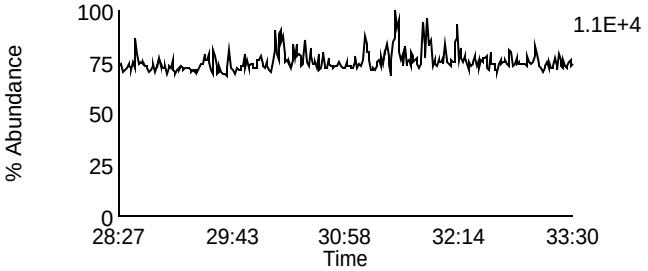
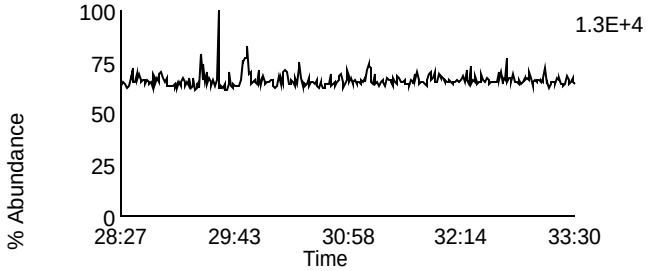
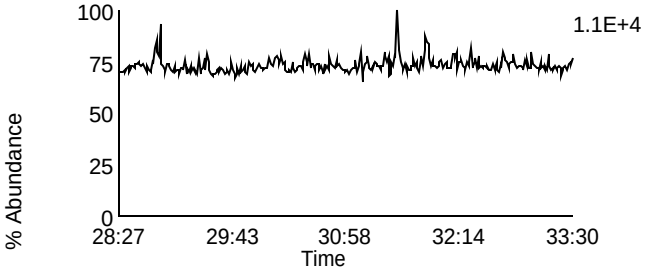
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G3 C2 - 375.8178
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G3 C8 - 391.8127
SAMP 10260486005 - BAL PASI-WI



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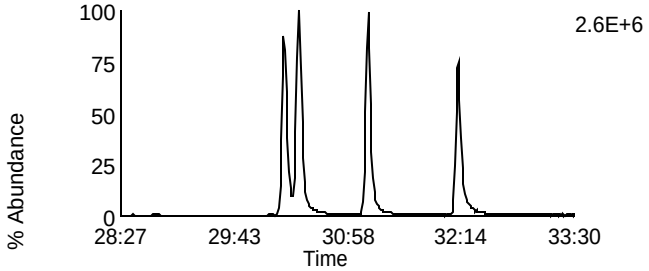
SAMP 10260486005 - BAL PASI-WI



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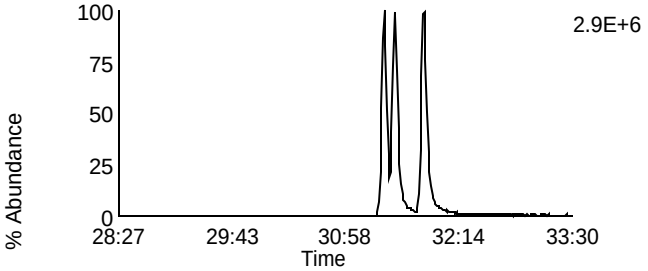
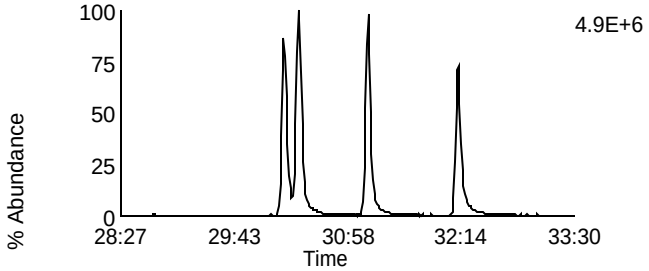
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G3 C6 - 385.861
SAMP 10260486005 - BAL PASI-WI



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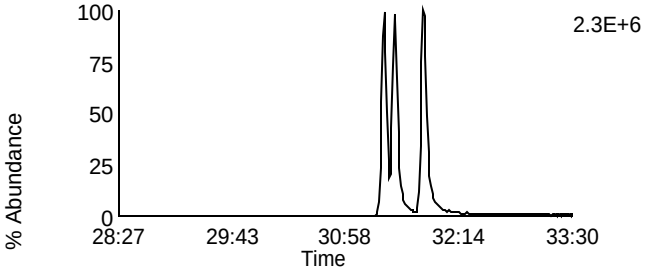
SAMP 10260486005 - BAL PASI-WI



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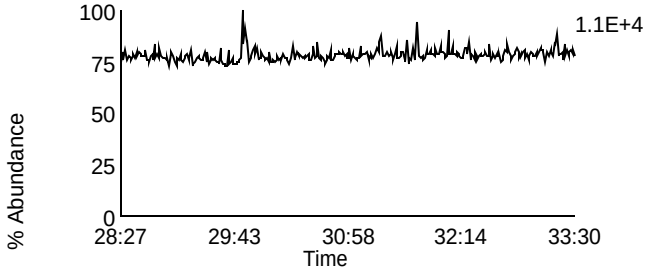
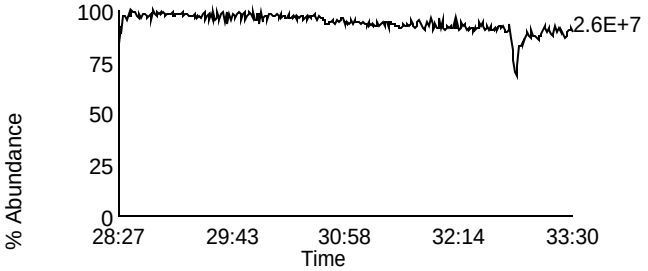
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G3 C3 - 380.976
SAMP 10260486005 - BAL PASI-WI

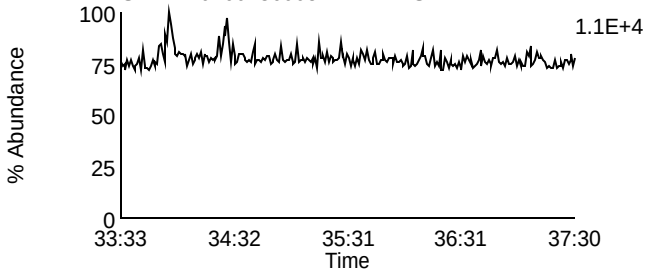


Homologue Group: Heptas

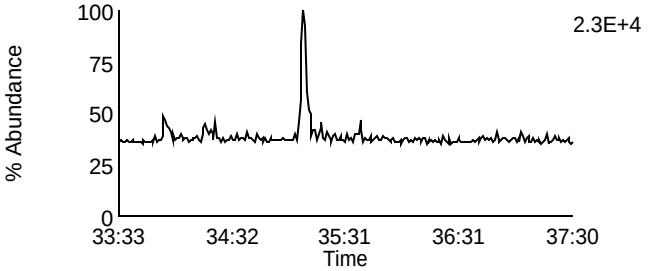
Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

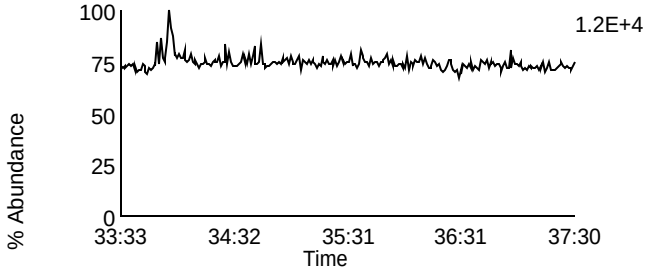
Data File: P140321B_13 G4 C3 - 407.7818
SAMP 10260486005 - BAL PASI-WI



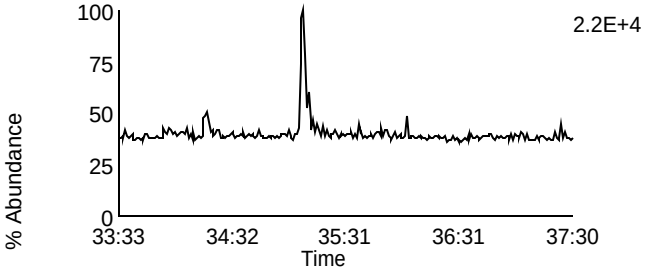
Data File: P140321B_13 G4 C8 - 423.7767
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G4 C4 - 409.7788
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G4 C9 - 425.7737
SAMP 10260486005 - BAL PASI-WI



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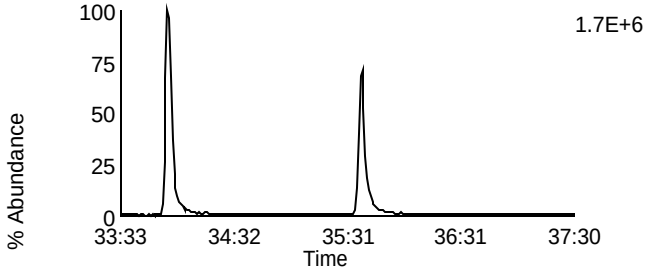
SAMP 10260486005 - BAL PASI-WI



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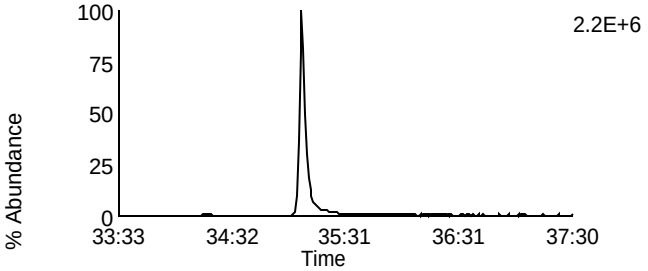
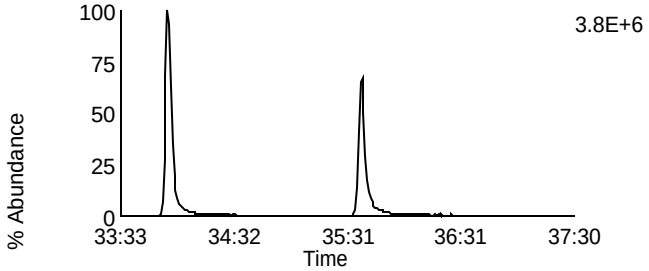
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G4 C7 - 419.822
SAMP 10260486005 - BAL PASI-WI



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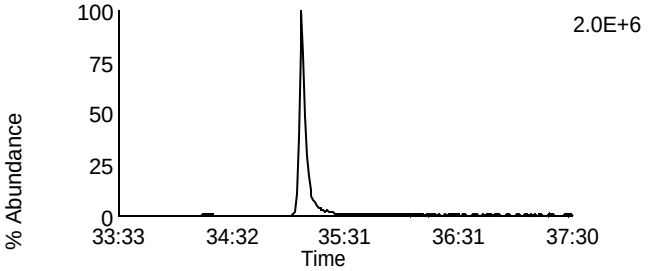
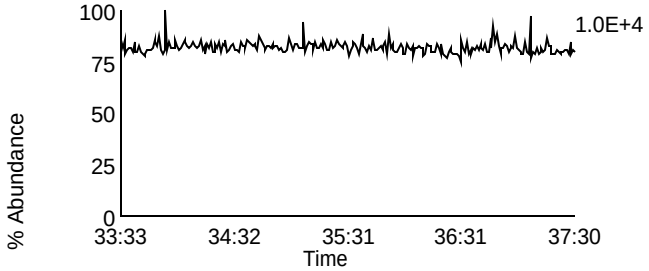
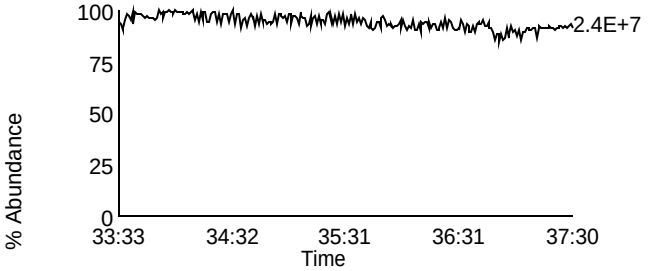
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G4 C13 - 479.7165
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G4 C1 - 380.976
SAMP 10260486005 - BAL PASI-WI

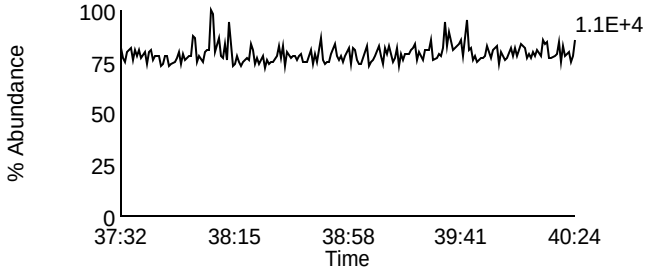


Homologue Group: Octas

Data File Name: P140321B_13
Date Acquired: 3/21/2014
Sample Description: SAMP 10260486005 - BAL PASI-WI

Lab Sample ID: 10260486005
Client Sample ID: MAK116C
Instrument: 10MSHR09 (P)

Data File: P140321B_13 G5 C4 - 441.7428
SAMP 10260486005 - BAL PASI-WI



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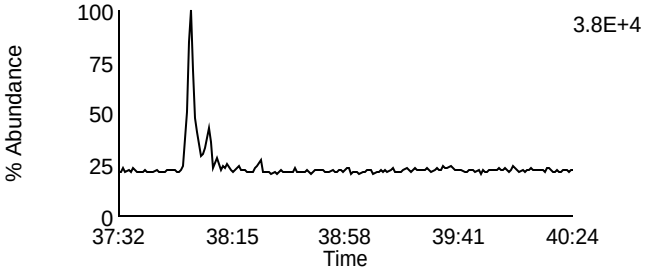
SAMP 10260486005 - BAL PASI-WI



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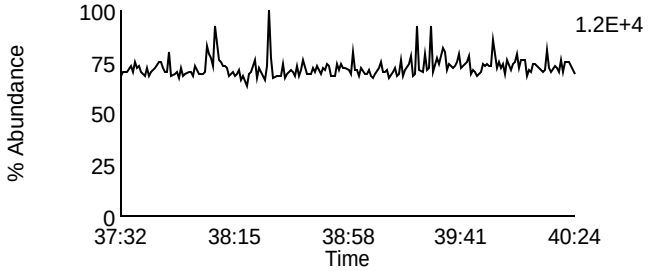
SAMP 10260486005 - BAL PASI-WI



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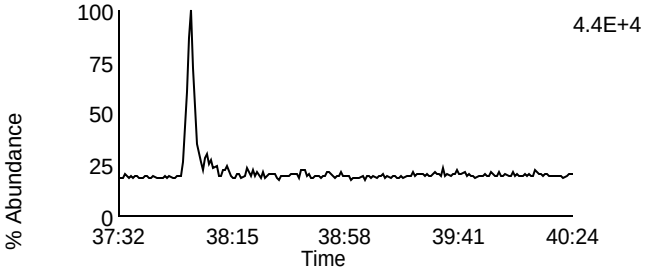
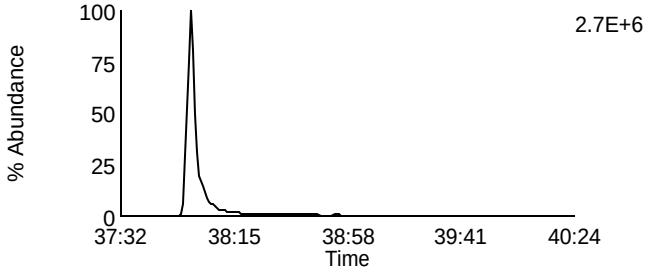
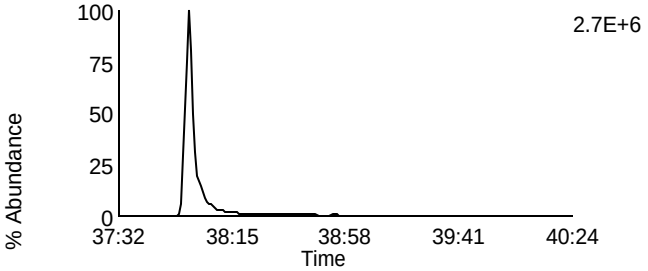
SAMP 10260486005 - BAL PASI-WI



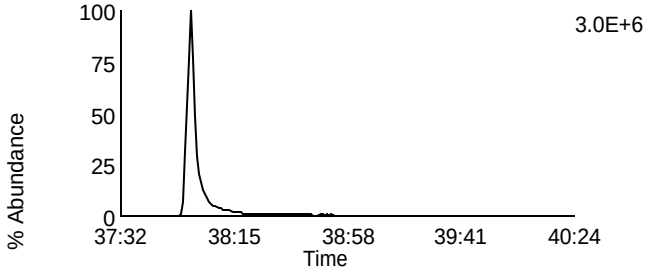
Data File: P140321B_13 G5 C11 - 469.7779
SAMP 10260486005 - BAL PASI-WI



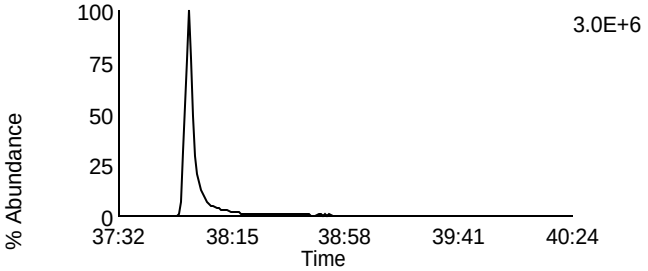
Data File: P140321B_13 G5 C11 - 469.7779
SAMP 10260486005 - BAL PASI-WI



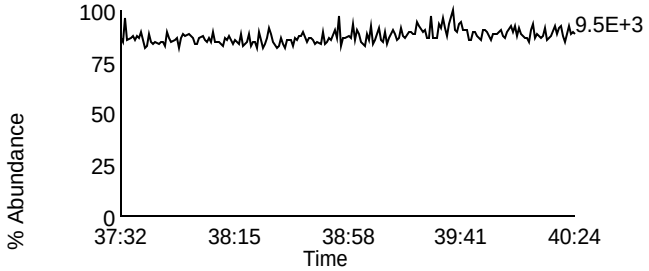
Data File: P140321B_13 G5 C12 - 471.7749
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G5 C12 - 471.7749
SAMP 10260486005 - BAL PASI-WI



Data File: P140321B_13 G5 C13 - 513.6775
SAMP 10260486005 - BAL PASI-WI



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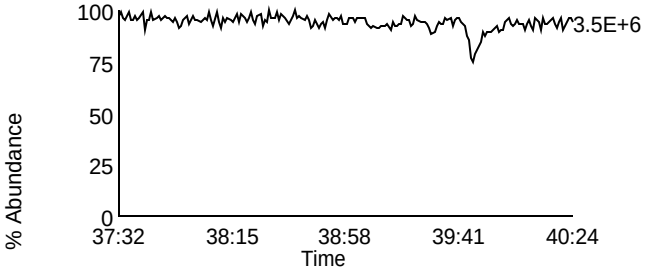
SAMP 10260486005 - BAL PASI-WI

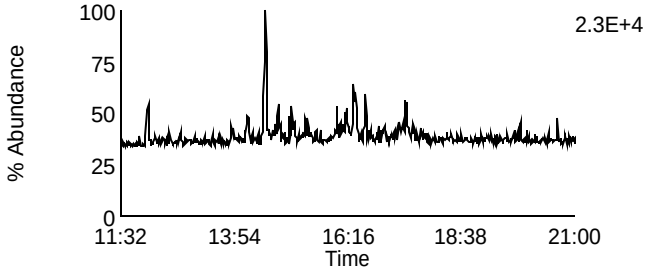


Homologue Group: Tetras

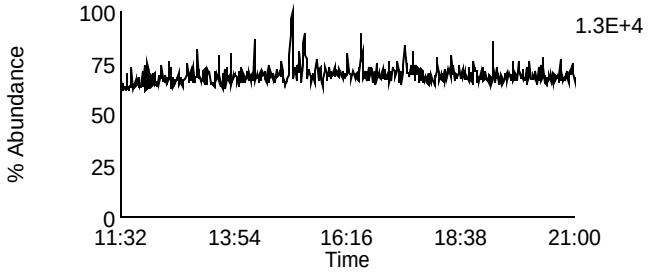
Data File Name: P140321B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486006 - BAL PASI-WI

Lab Sample ID: 10260486006
Client Sample ID: MAK117C
Instrument: 10MSHR09 (P)

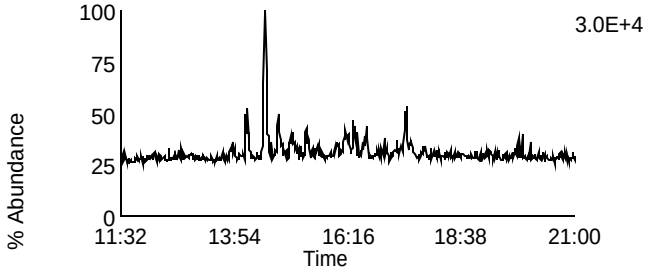
Data File: P140321B_14 G1 C1 - 303.9016
SAMP 10260486006 - BAL PASI-WI



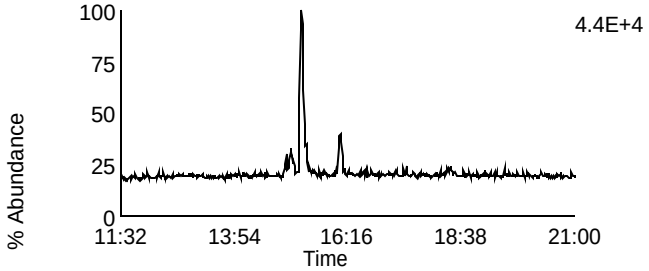
Data File: P140321B_14 G1 C7 - 319.8965
SAMP 10260486006 - BAL PASI-WI



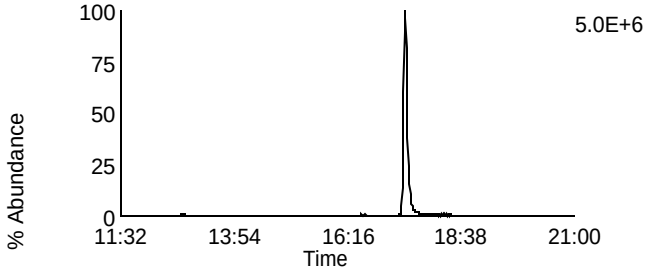
Data File: P140321B_14 G1 C2 - 305.8987
SAMP 10260486006 - BAL PASI-WI



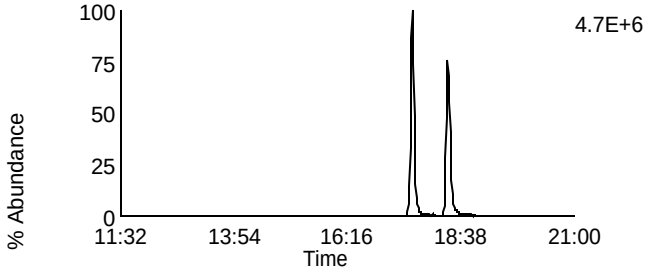
Data File: P140321B_14 G1 C8 - 321.8936
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G1 C3 - 315.9418
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G1 C10 - 331.9367
SAMP 10260486006 - BAL PASI-WI



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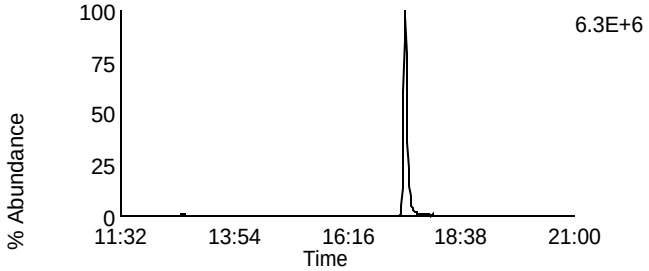
SAMP 10260486006 - BAL PASI-WI



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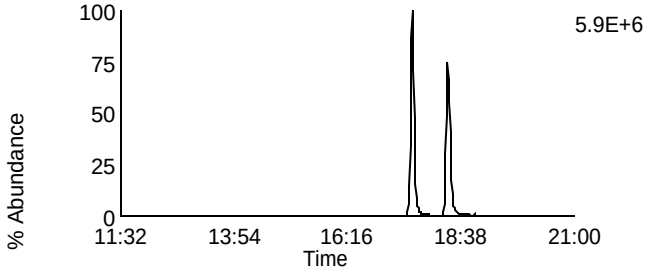
SAMP 10260486006 - BAL PASI-WI



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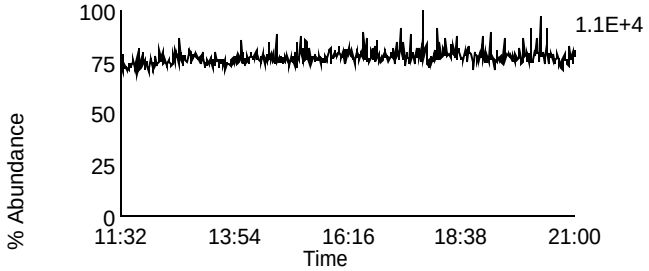
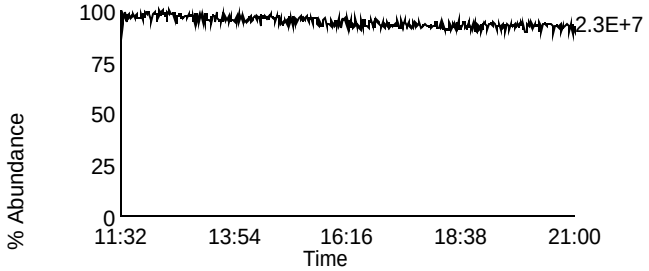
SAMP 10260486006 - BAL PASI-WI



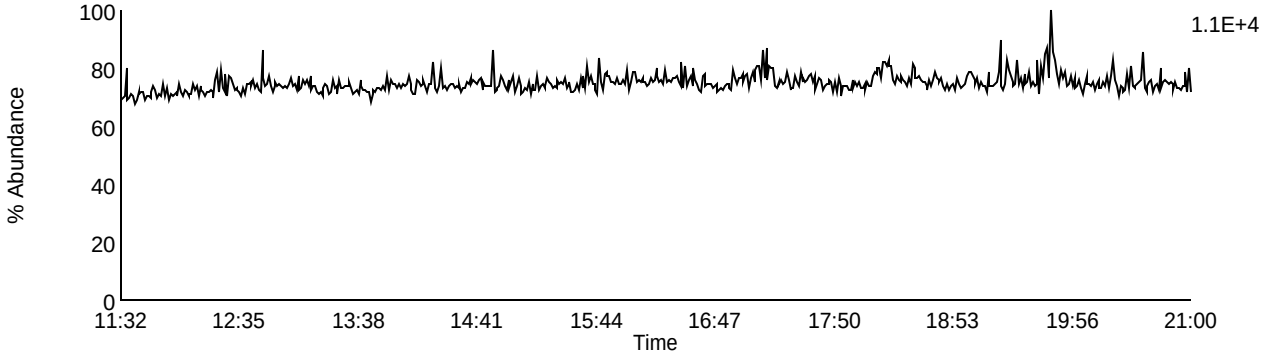
Data File: P140321B_14 G1 C5 - 318.9792
SAMP 10260486006 - BAL PASI-WI



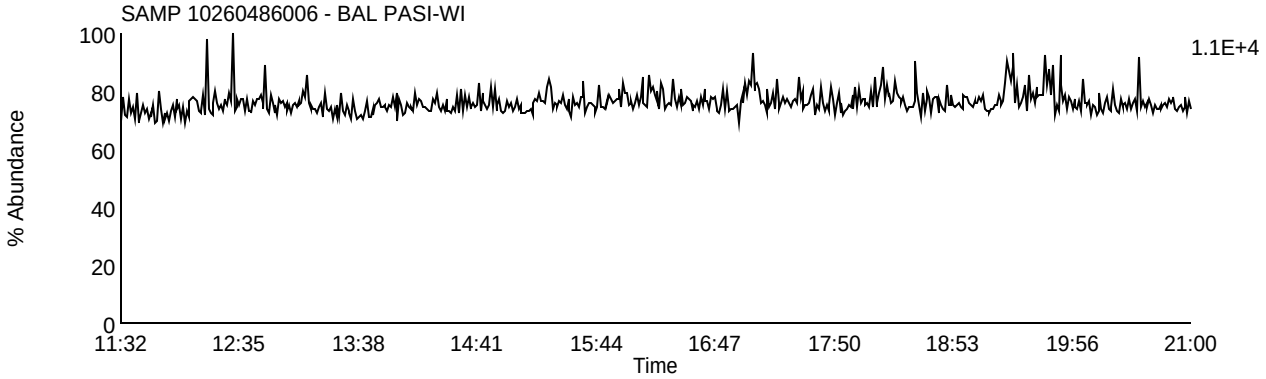
Homologue Group: Penta & Cleanup

Data File Name: P140321B_14	Lab Sample ID: 10260486006
Date Acquired: 3/22/2014	Client Sample ID: MAK117C
Sample Description: SAMP 10260486006 - BAL PASI-WI	Instrument: 10MSHR09 (P)

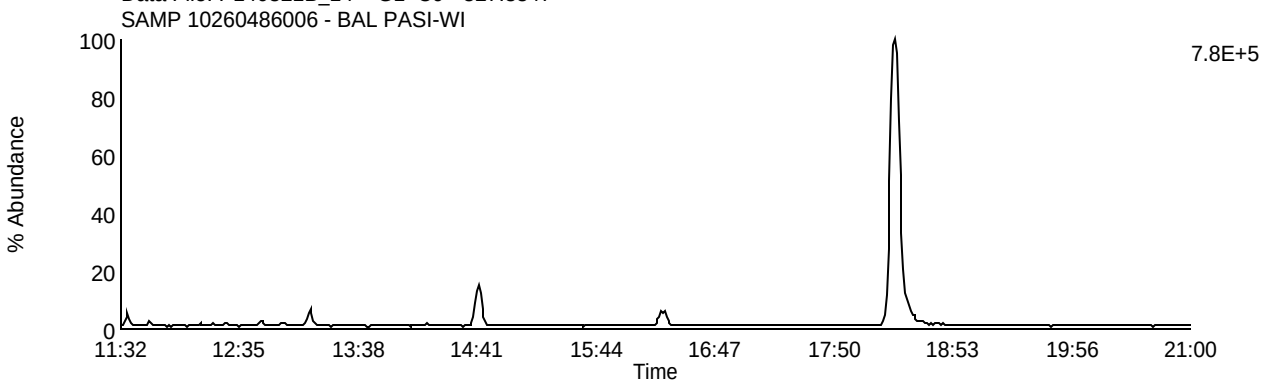
Data File: P140321B_14 G1 C12 - 339.8597
SAMP 10260486006 - BAL PASI-WI



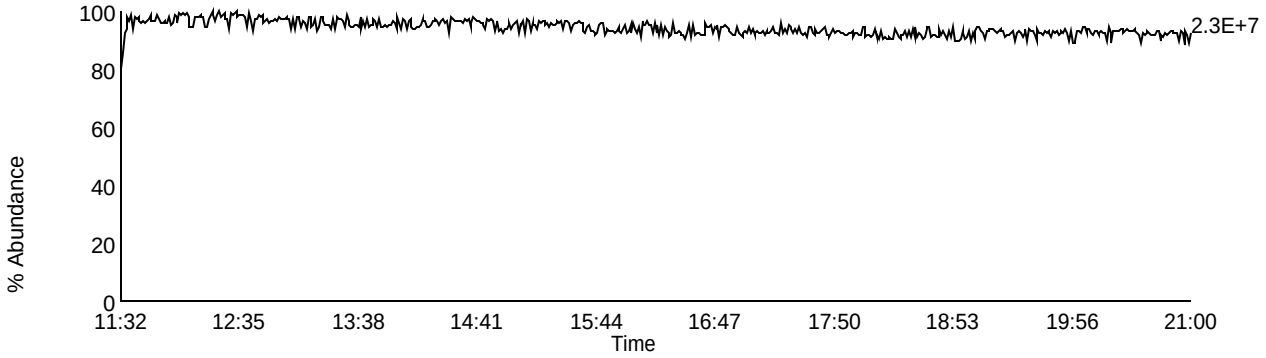
Data File: P140321B_14 G1 C13 - 341.8567
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G1 C9 - 327.8847
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G1 C5 - 318.9792
SAMP 10260486006 - BAL PASI-WI

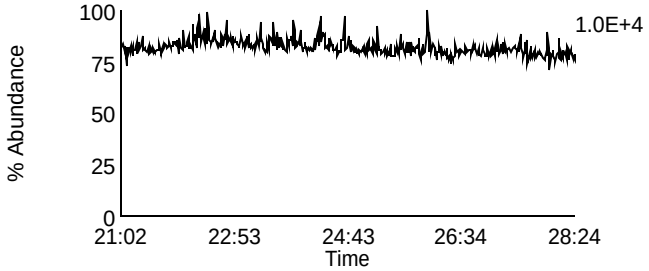


Homologue Group: Pentas

Data File Name: P140321B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486006 - BAL PASI-WI

Lab Sample ID: 10260486006
Client Sample ID: MAK117C
Instrument: 10MSHR09 (P)

Data File: P140321B_14 G2 C1 - 339.8597
SAMP 10260486006 - BAL PASI-WI



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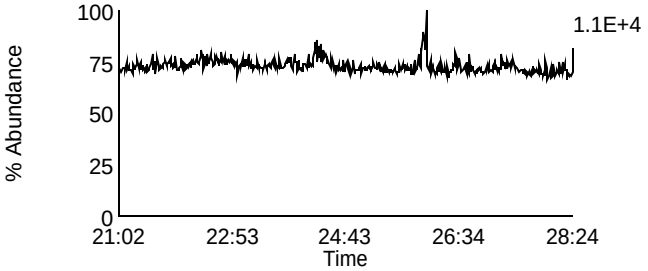
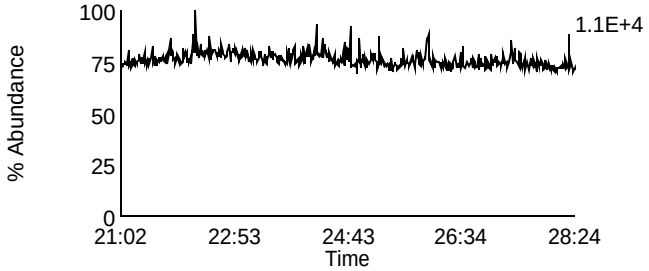
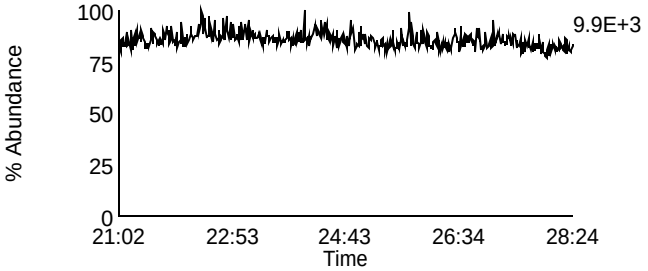
SAMP 10260486006 - BAL PASI-WI



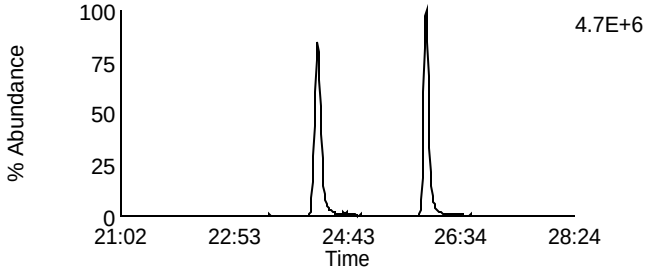
Data File: P140321B_14 G2 C2 - 341.8567
SAMP 10260486006 - BAL PASI-WI



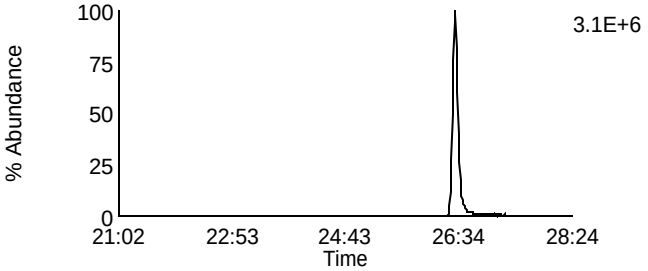
Data File: P140321B_14 G2 C8 - 355.8546
SAMP 10260486006 - BAL PASI-WI



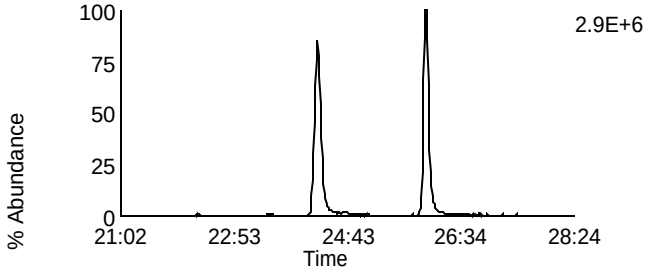
Data File: P140321B_14 G2 C3 - 351.8999
SAMP 10260486006 - BAL PASI-WI



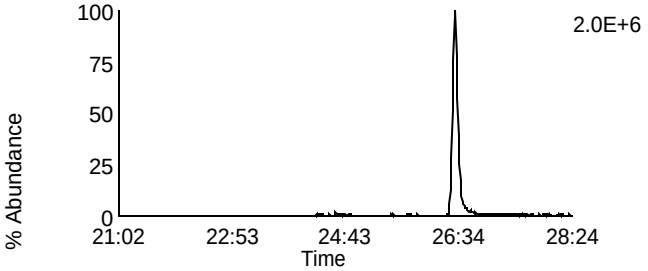
Data File: P140321B_14 G2 C10 - 367.8948
SAMP 10260486006 - BAL PASI-WI



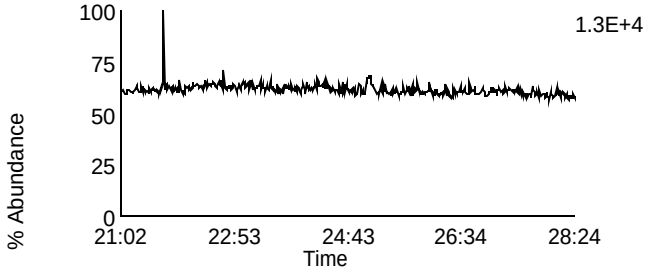
Data File: P140321B_14 G2 C5 - 353.8969
SAMP 10260486006 - BAL PASI-WI



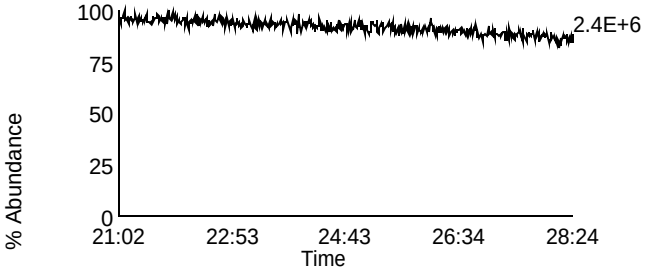
Data File: P140321B_14 G2 C11 - 369.8918
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G2 C12 - 409.7974
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G2 C6 - 354.9792
SAMP 10260486006 - BAL PASI-WI

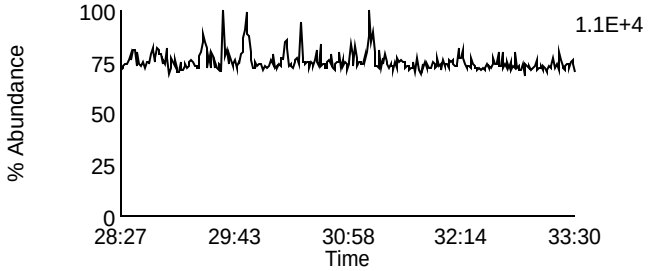


Homologue Group: Hexas

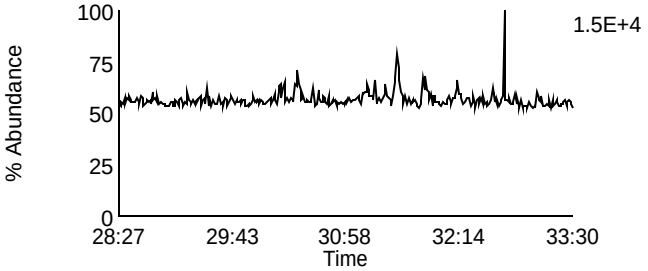
Data File Name: P140321B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486006 - BAL PASI-WI

Lab Sample ID: 10260486006
Client Sample ID: MAK117C
Instrument: 10MSHR09 (P)

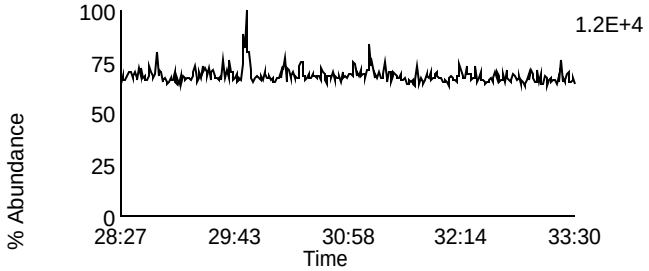
Data File: P140321B_14 G3 C1 - 373.8207
SAMP 10260486006 - BAL PASI-WI



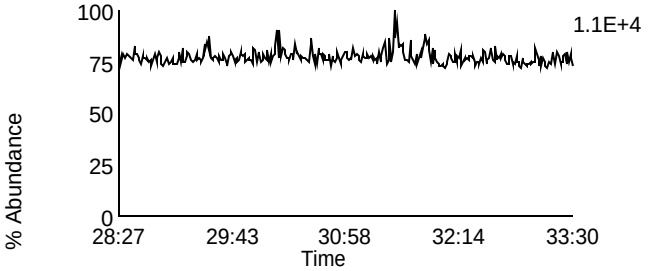
Data File: P140321B_14 G3 C7 - 389.8156
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G3 C2 - 375.8178
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G3 C8 - 391.8127
SAMP 10260486006 - BAL PASI-WI



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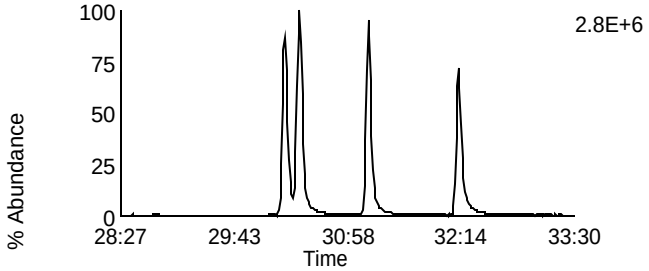
SAMP 10260486006 - BAL PASI-WI



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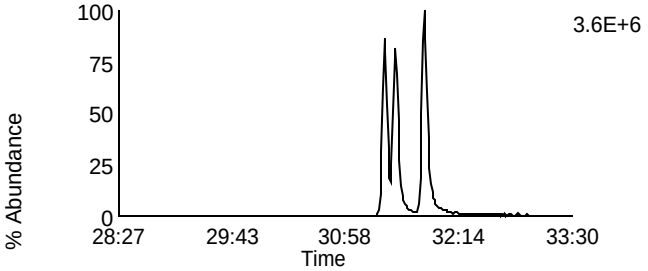
SAMP 10260486006 - BAL PASI-WI



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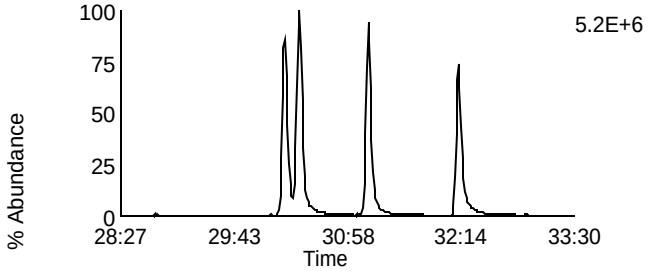
SAMP 10260486006 - BAL PASI-WI



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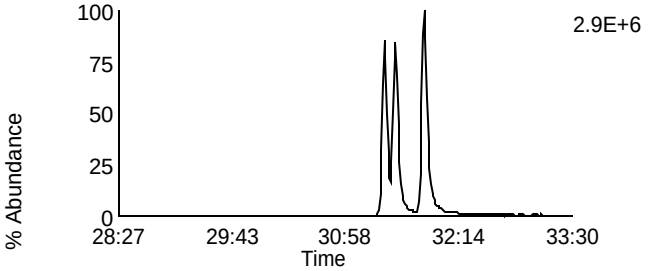
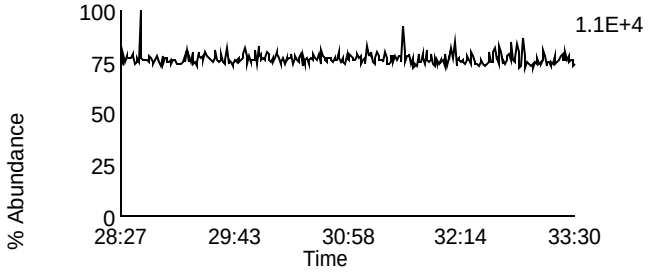
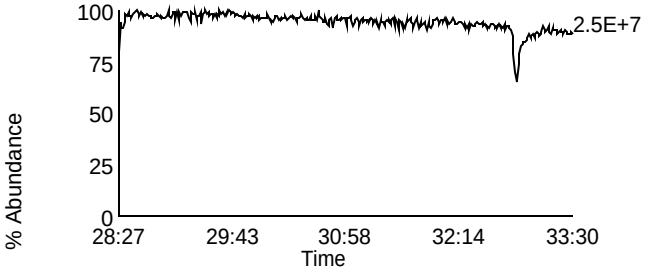
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G3 C11 - 445.7555
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G3 C3 - 380.976
SAMP 10260486006 - BAL PASI-WI

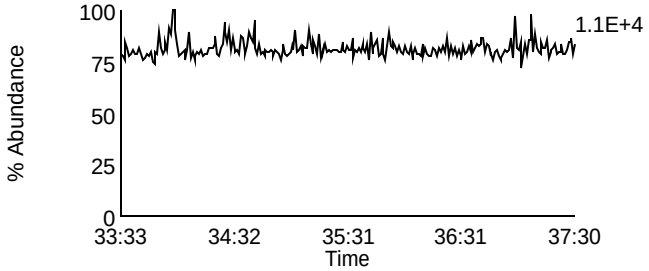


Homologue Group: Heptas

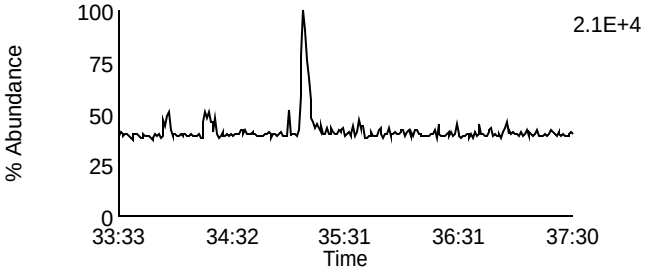
Data File Name: P140321B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486006 - BAL PASI-WI

Lab Sample ID: 10260486006
Client Sample ID: MAK117C
Instrument: 10MSHR09 (P)

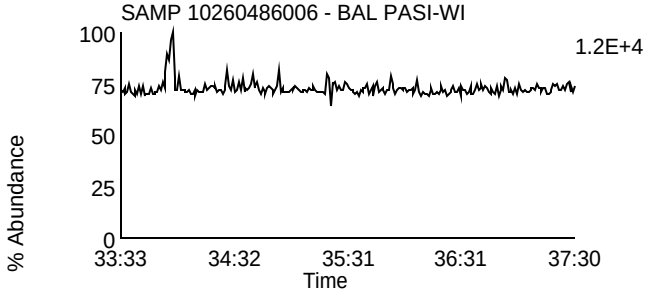
Data File: P140321B_14 G4 C3 - 407.7818
SAMP 10260486006 - BAL PASI-WI



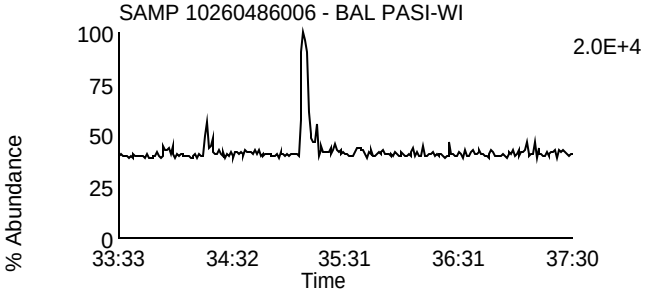
Data File: P140321B_14 G4 C8 - 423.7767
SAMP 10260486006 - BAL PASI-WI



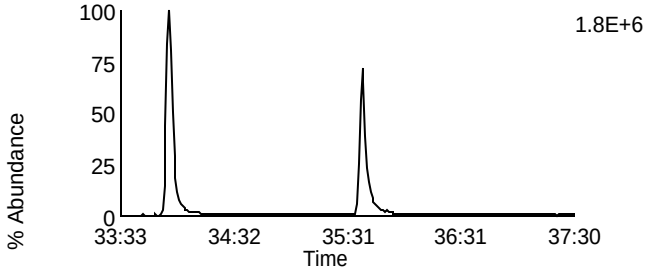
Data File: P140321B_14 G4 C4 - 409.7788
SAMP 10260486006 - BAL PASI-WI



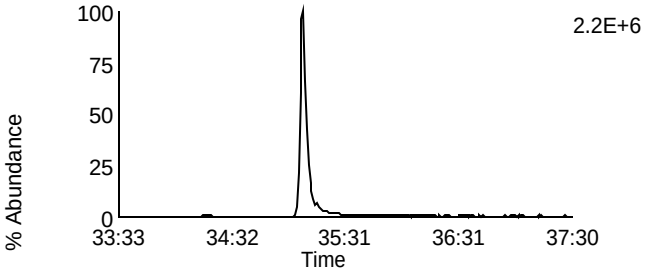
Data File: P140321B_14 G4 C9 - 425.7737
SAMP 10260486006 - BAL PASI-WI



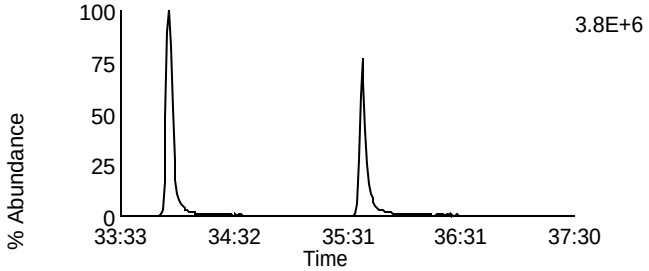
Data File: P140321B_14 G4 C6 - 417.825
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G4 C11 - 435.8169
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G4 C7 - 419.822
SAMP 10260486006 - BAL PASI-WI



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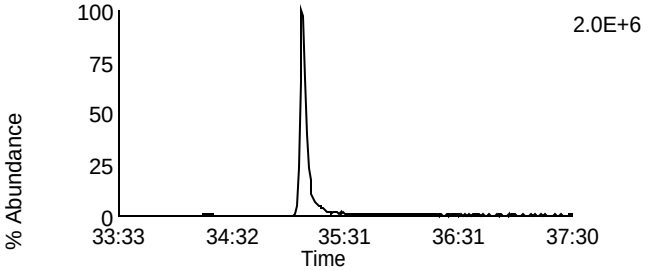
SAMP 10260486006 - BAL PASI-WI



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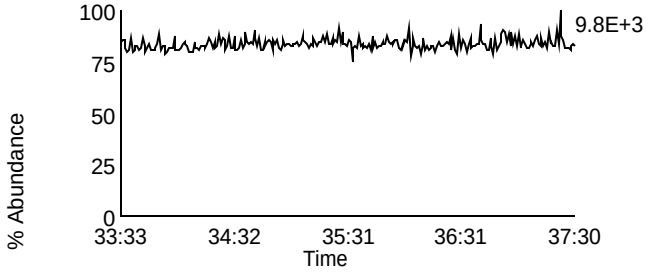
SAMP 10260486006 - BAL PASI-WI



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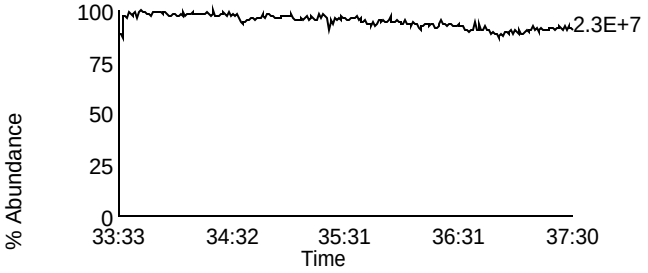
SAMP 10260486006 - BAL PASI-WI

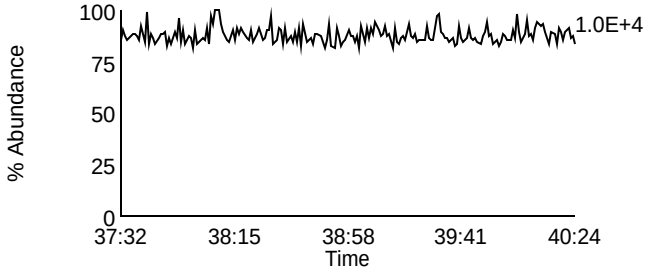


Homologue Group: Octas

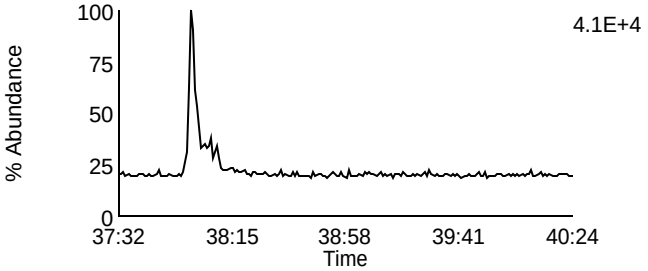
Data File Name: P140321B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486006 - BAL PASI-WI

Lab Sample ID: 10260486006
Client Sample ID: MAK117C
Instrument: 10MSHR09 (P)

Data File: P140321B_14 G5 C4 - 441.7428
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G5 C8 - 457.7377
SAMP 10260486006 - BAL PASI-WI



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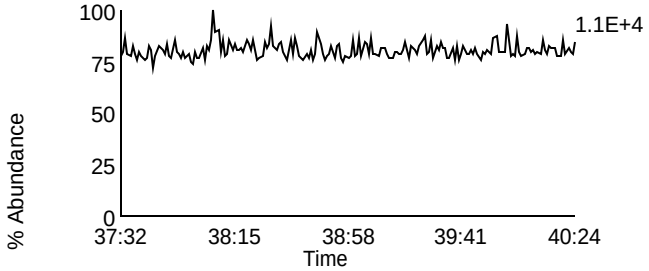
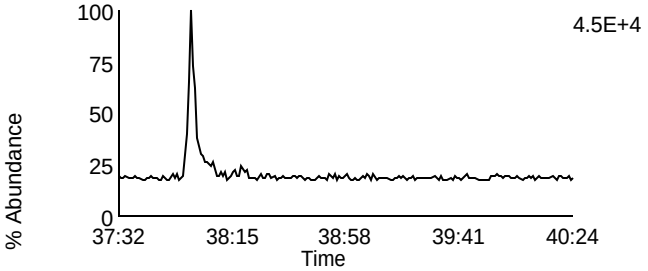
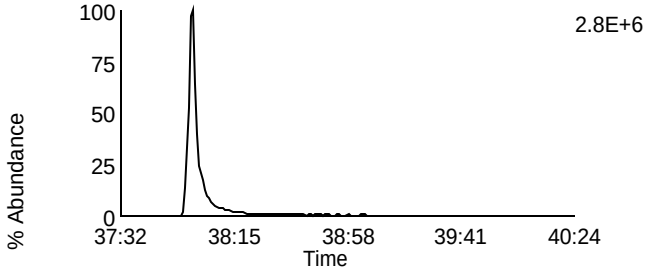
SAMP 10260486006 - BAL PASI-WI



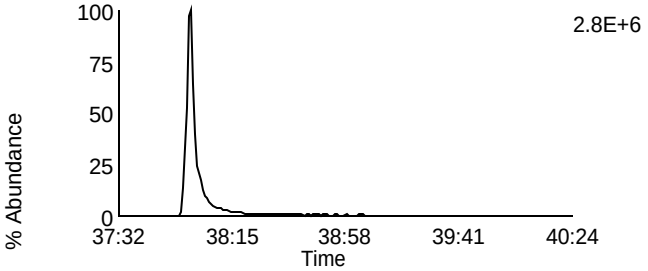
Data File: P140321B_14 G5 C9 - 459.7347
SAMP 10260486006 - BAL PASI-WI



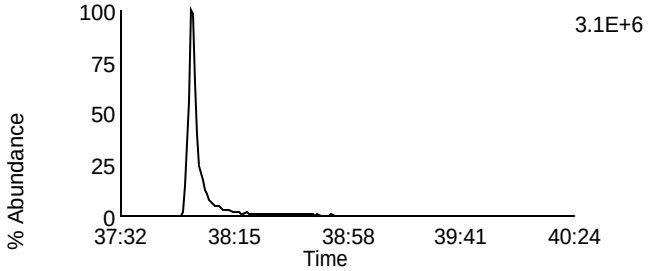
Data File: P140321B_14 G5 C11 - 469.7779
SAMP 10260486006 - BAL PASI-WI



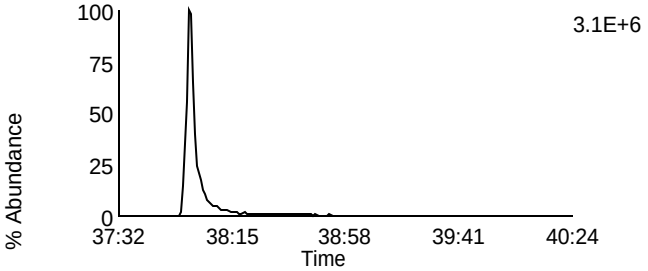
Data File: P140321B_14 G5 C11 - 469.7779
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G5 C12 - 471.7749
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G5 C12 - 471.7749
SAMP 10260486006 - BAL PASI-WI



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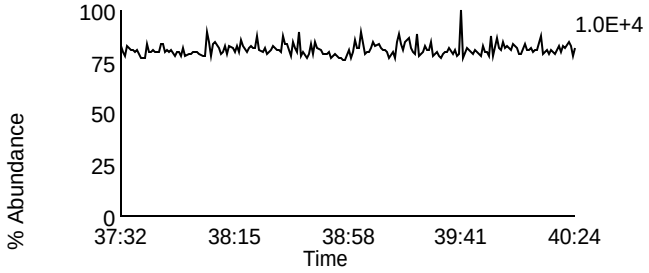
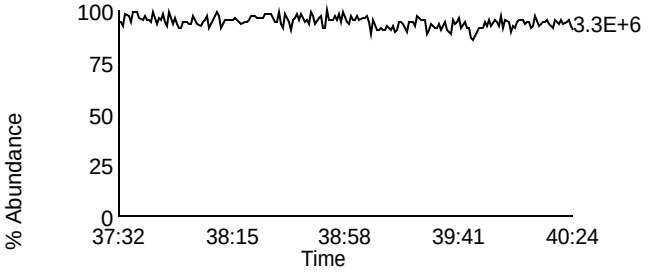
SAMP 10260486006 - BAL PASI-WI



Data File: P140321B_14 G5 C2 - 430.9728
SAMP 10260486006 - BAL PASI-WI

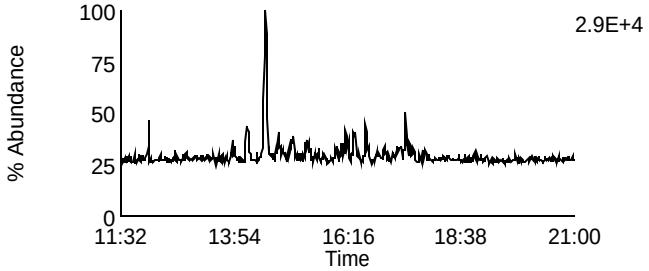


Homologue Group: Tetras

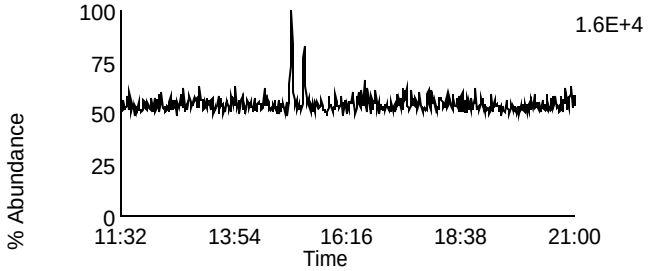
Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

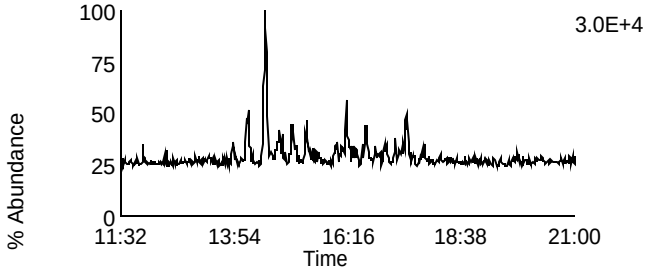
Data File: P140321B_15 G1 C1 - 303.9016
SAMP 10260486007 - BAL PASI-WI



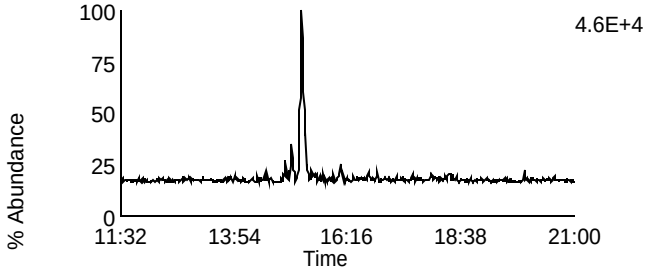
Data File: P140321B_15 G1 C7 - 319.8965
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C2 - 305.8987
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C8 - 321.8936
SAMP 10260486007 - BAL PASI-WI



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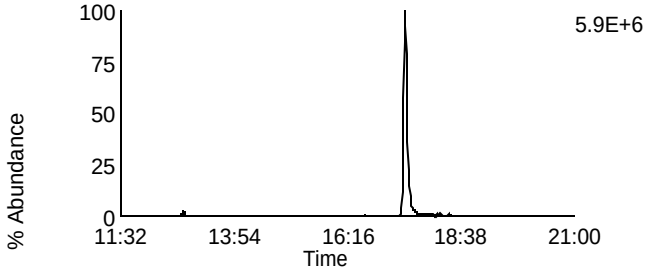
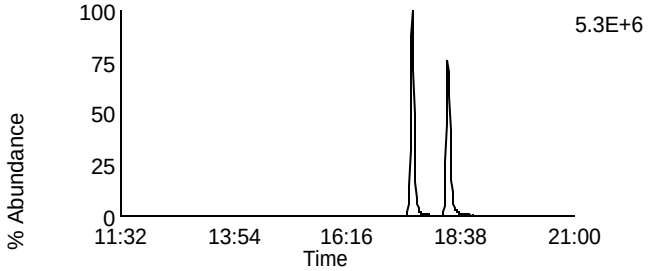
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C10 - 331.9367
SAMP 10260486007 - BAL PASI-WI



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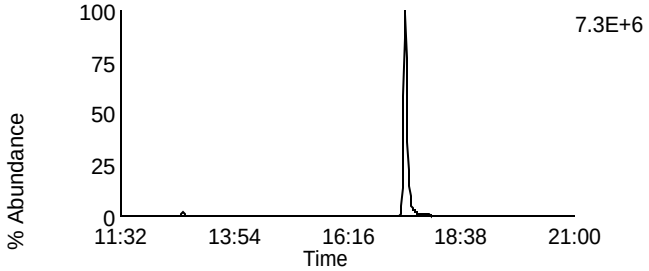
SAMP 10260486007 - BAL PASI-WI



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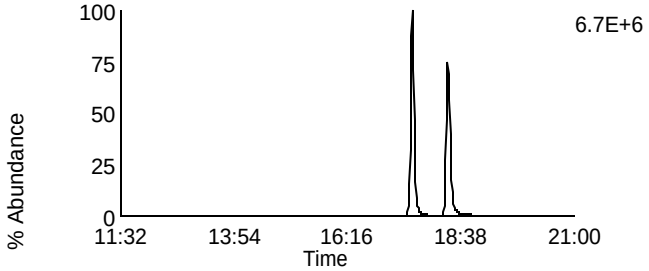
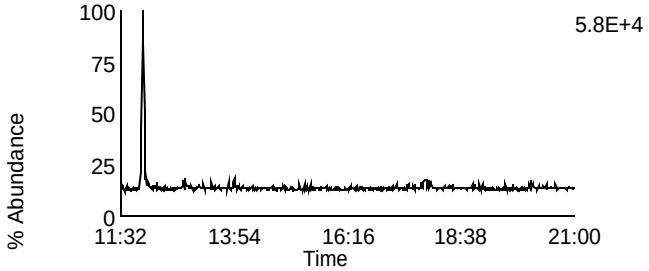
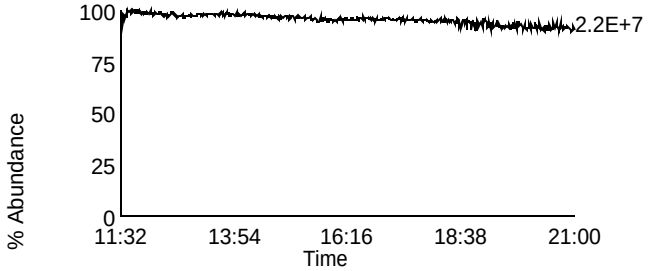
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C14 - 375.8364
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C5 - 318.9792
SAMP 10260486007 - BAL PASI-WI

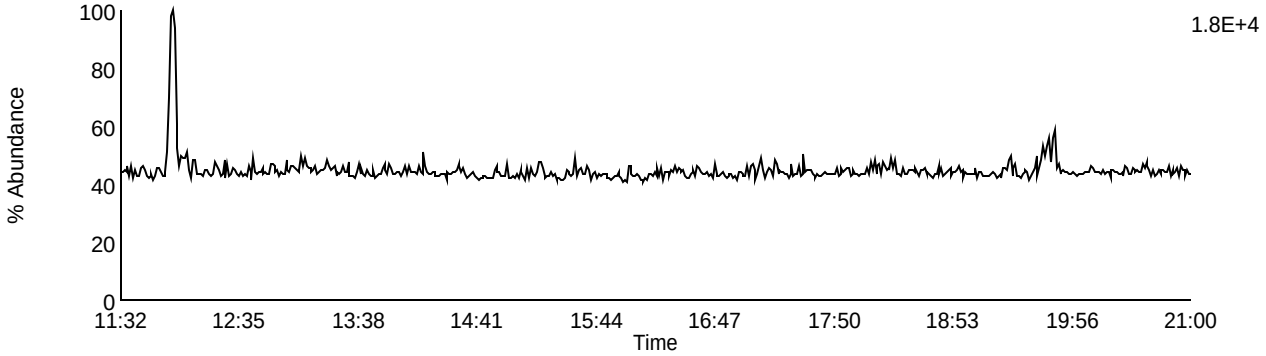


Homologue Group: Penta & Cleanup

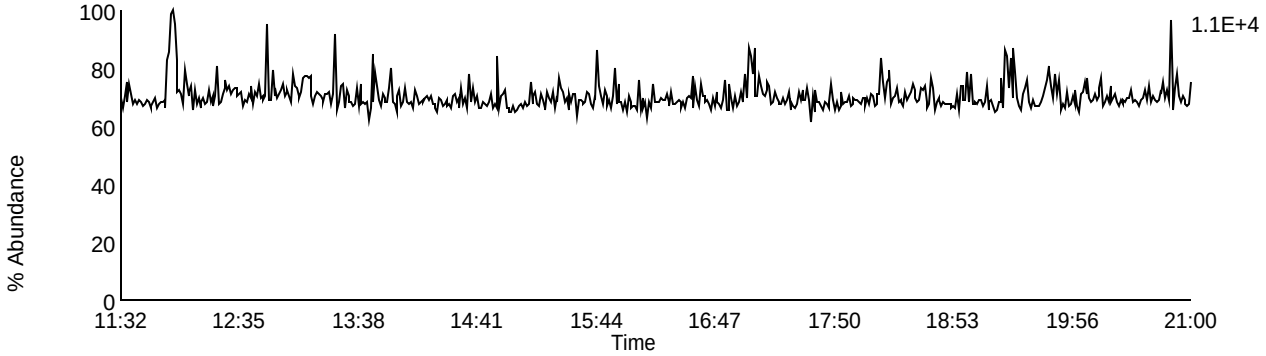
Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

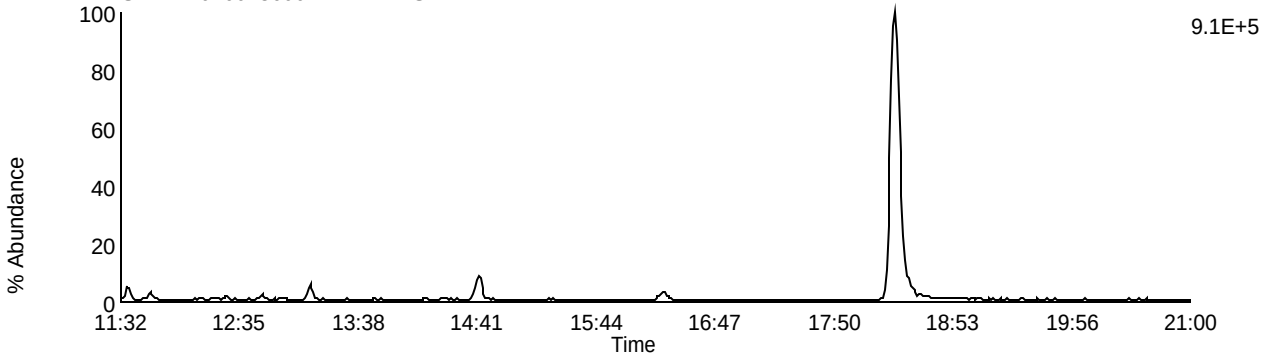
Data File: P140321B_15 G1 C12 - 339.8597
SAMP 10260486007 - BAL PASI-WI



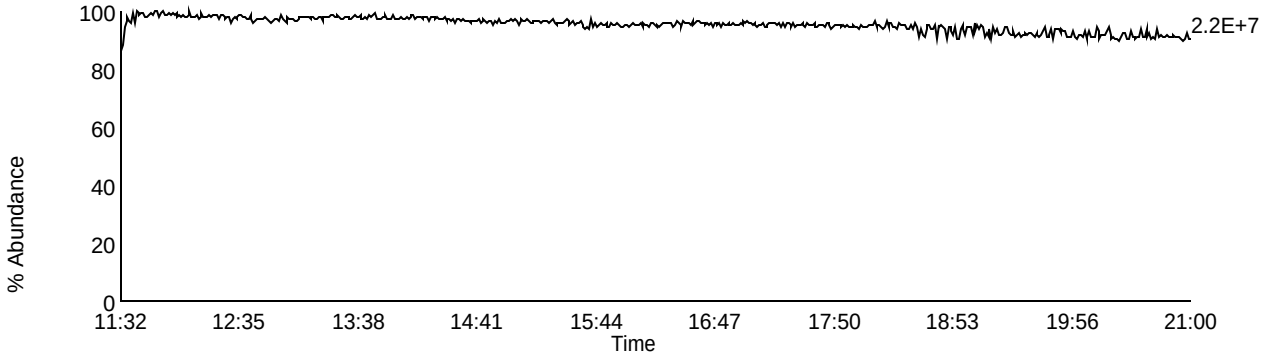
Data File: P140321B_15 G1 C13 - 341.8567
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C9 - 327.8847
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G1 C5 - 318.9792
SAMP 10260486007 - BAL PASI-WI

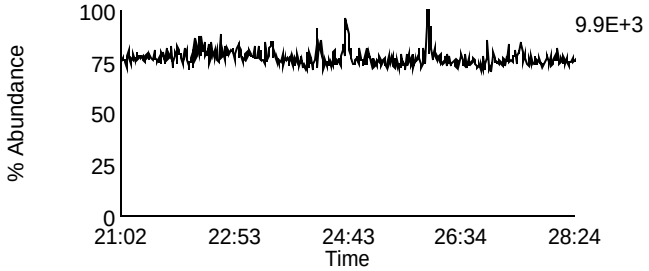


Homologue Group: Pentas

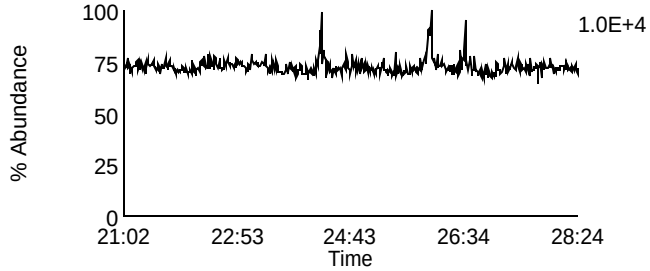
Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

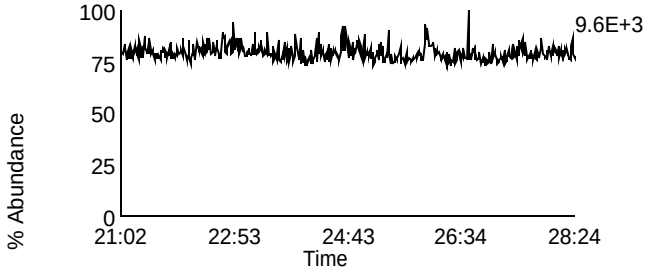
Data File: P140321B_15 G2 C1 - 339.8597
SAMP 10260486007 - BAL PASI-WI



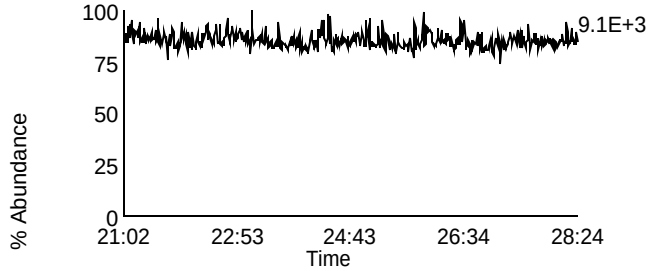
Data File: P140321B_15 G2 C4 - 353.8576
SAMP 10260486007 - BAL PASI-WI



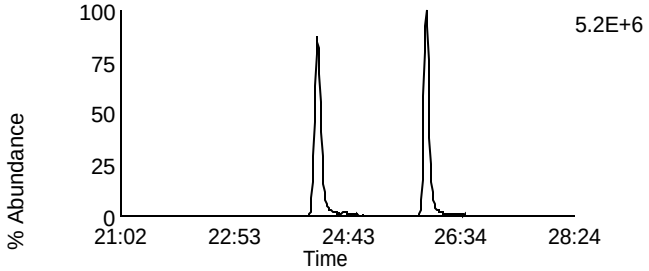
Data File: P140321B_15 G2 C2 - 341.8567
SAMP 10260486007 - BAL PASI-WI



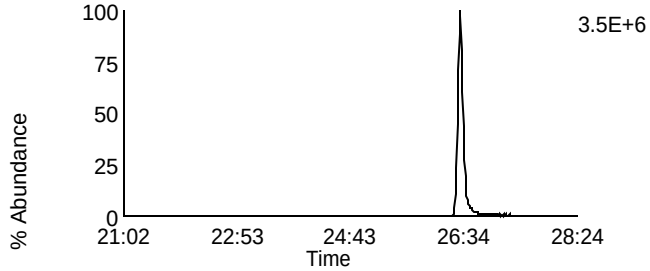
Data File: P140321B_15 G2 C8 - 355.8546
SAMP 10260486007 - BAL PASI-WI



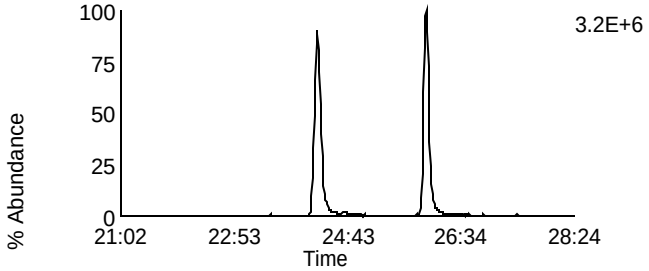
Data File: P140321B_15 G2 C3 - 351.8999
SAMP 10260486007 - BAL PASI-WI



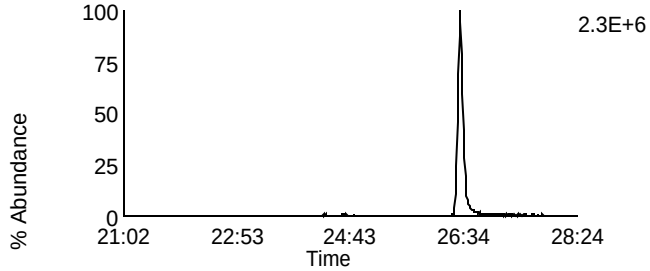
Data File: P140321B_15 G2 C10 - 367.8948
SAMP 10260486007 - BAL PASI-WI



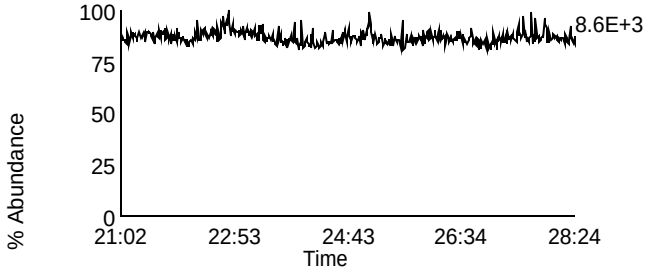
Data File: P140321B_15 G2 C5 - 353.8969
SAMP 10260486007 - BAL PASI-WI



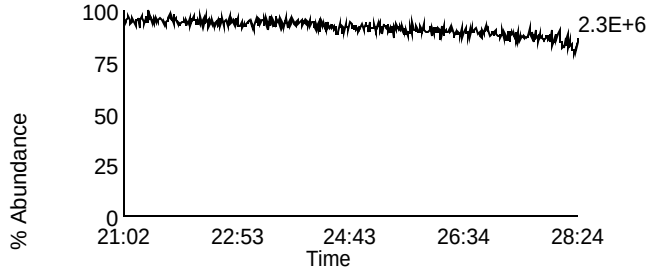
Data File: P140321B_15 G2 C11 - 369.8918
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G2 C12 - 409.7974
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G2 C6 - 354.9792
SAMP 10260486007 - BAL PASI-WI

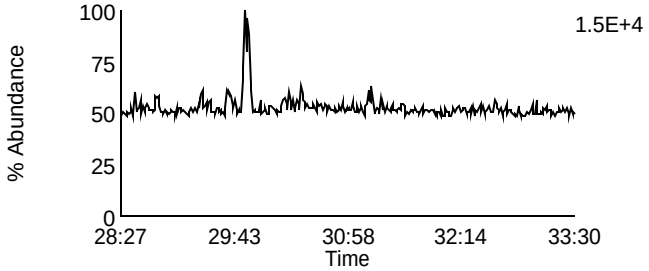


Homologue Group: Hexas

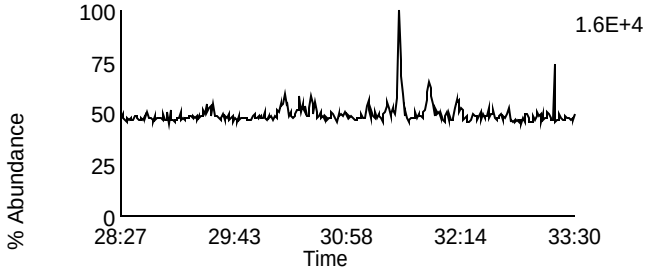
Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

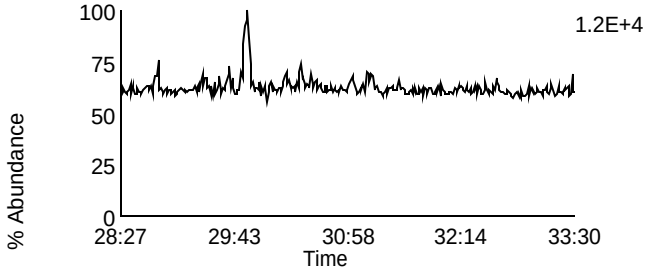
Data File: P140321B_15 G3 C1 - 373.8207
SAMP 10260486007 - BAL PASI-WI



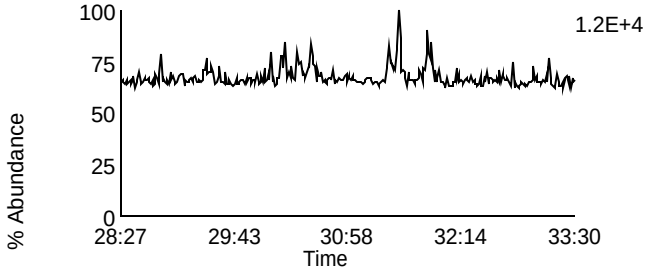
Data File: P140321B_15 G3 C7 - 389.8156
SAMP 10260486007 - BAL PASI-WI



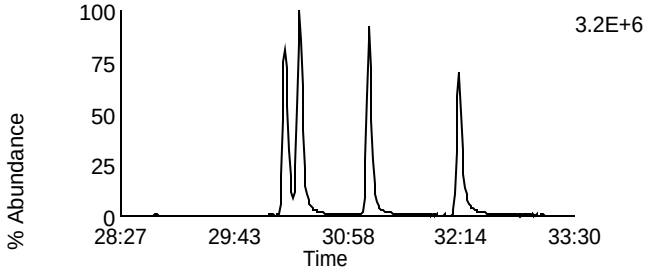
Data File: P140321B_15 G3 C2 - 375.8178
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G3 C8 - 391.8127
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G3 C5 - 383.8639
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G3 C9 - 401.8559
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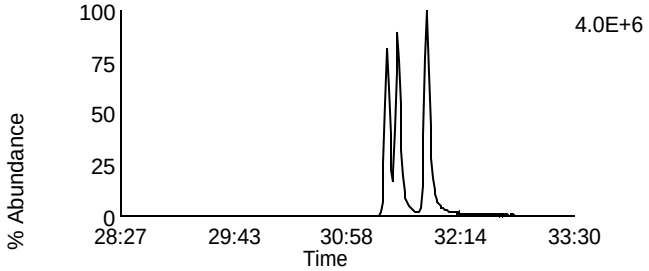
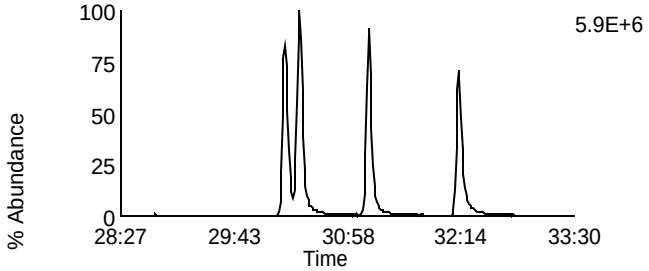


Data File: P140321B_15 G3 C6 - 385.861
SAMP 10260486007 - BAL PASI-WI



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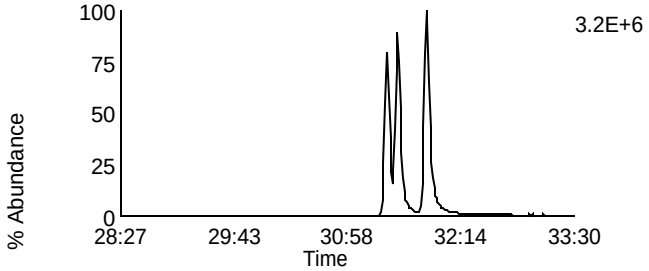
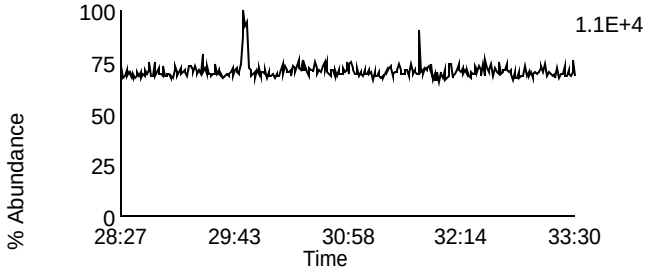
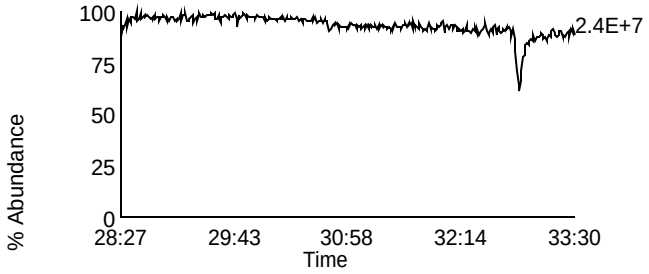
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G3 C11 - 445.7555
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G3 C3 - 380.976
SAMP 10260486007 - BAL PASI-WI

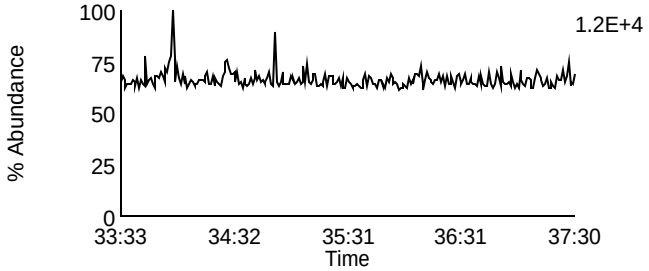


Homologue Group: Heptas

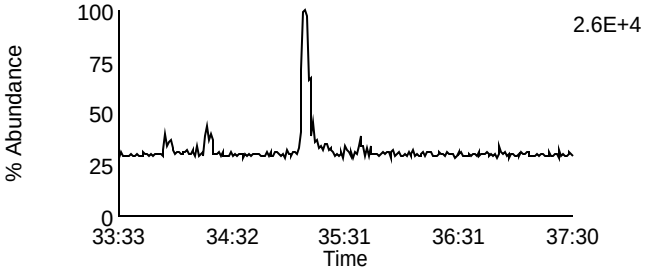
Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

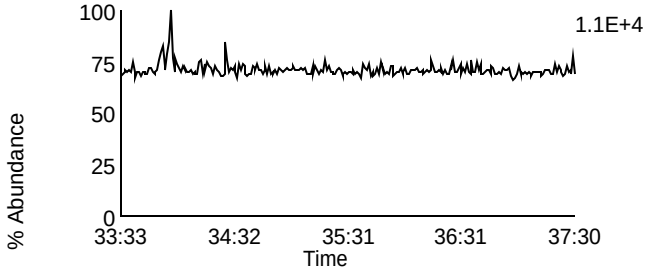
Data File: P140321B_15 G4 C3 - 407.7818
SAMP 10260486007 - BAL PASI-WI



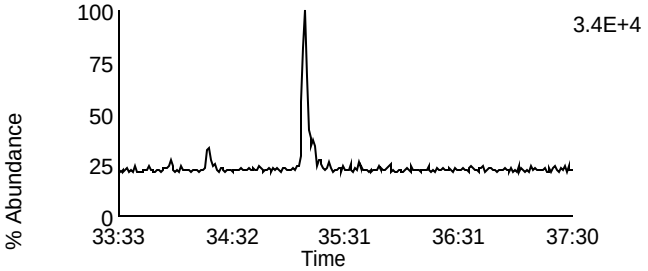
Data File: P140321B_15 G4 C8 - 423.7767
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G4 C4 - 409.7788
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G4 C9 - 425.7737
SAMP 10260486007 - BAL PASI-WI



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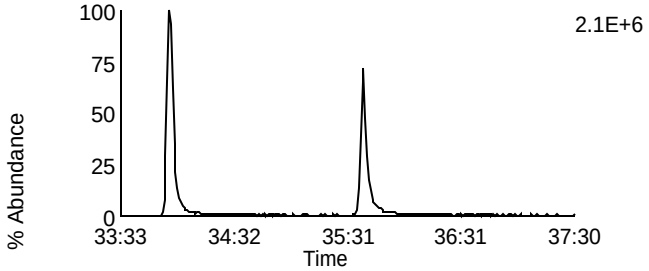
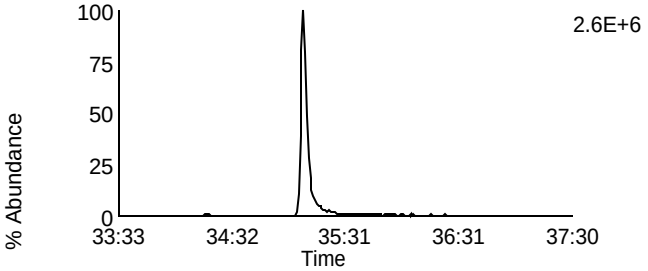
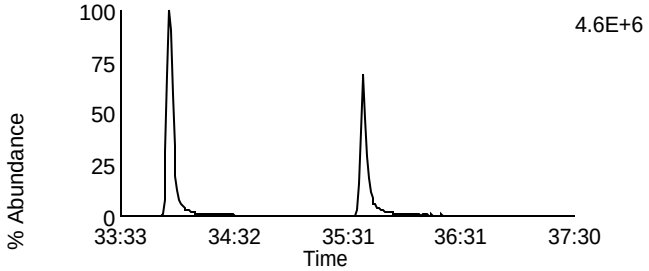
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G4 C11 - 435.8169
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G4 C7 - 419.822
SAMP 10260486007 - BAL PASI-WI



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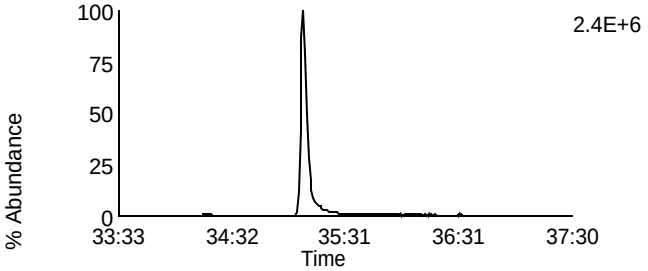
SAMP 10260486007 - BAL PASI-WI



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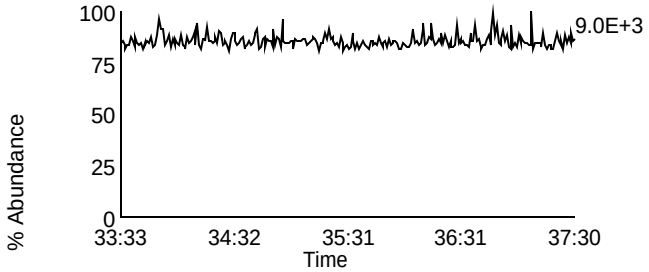
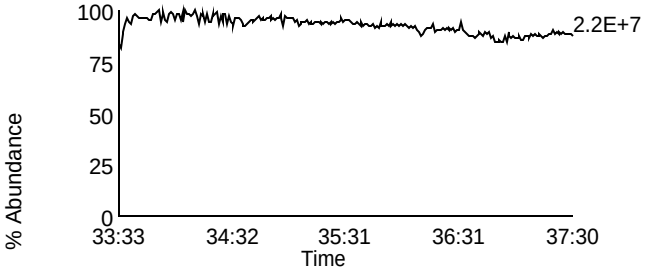


Data File: P140321B_15 G4 C1 - 380.976
SAMP 10260486007 - BAL PASI-WI

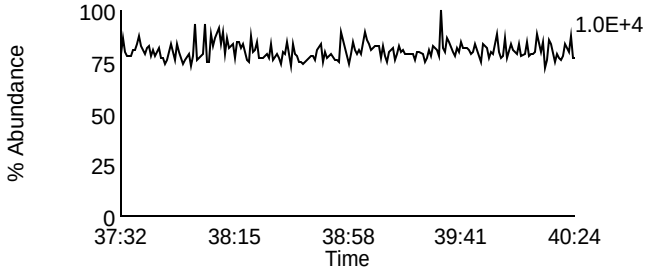


Homologue Group: Octas

Data File Name: P140321B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486007 - BAL PASI-WI

Lab Sample ID: 10260486007
Client Sample ID: MAK118C
Instrument: 10MSHR09 (P)

Data File: P140321B_15 G5 C4 - 441.7428
SAMP 10260486007 - BAL PASI-WI



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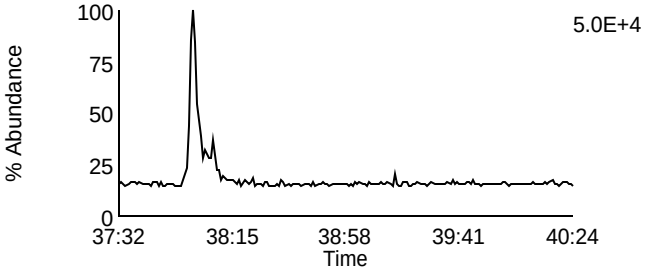
SAMP 10260486007 - BAL PASI-WI



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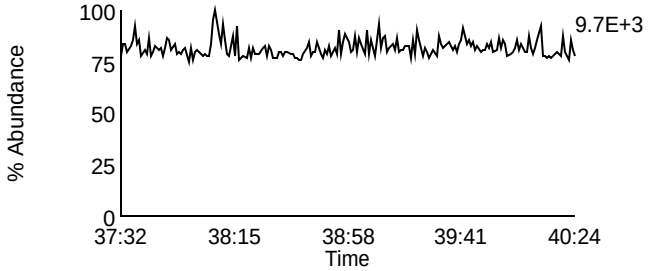
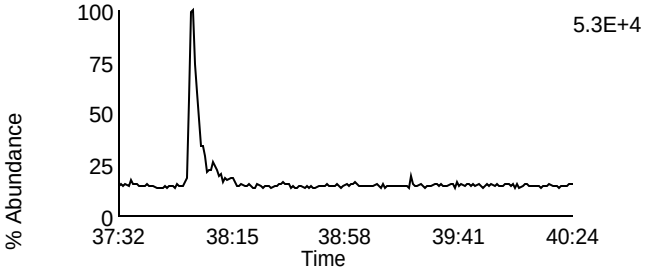
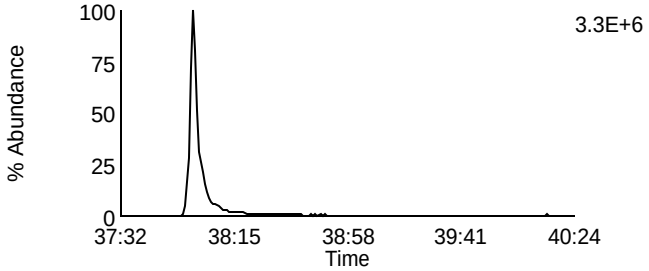
SAMP 10260486007 - BAL PASI-WI



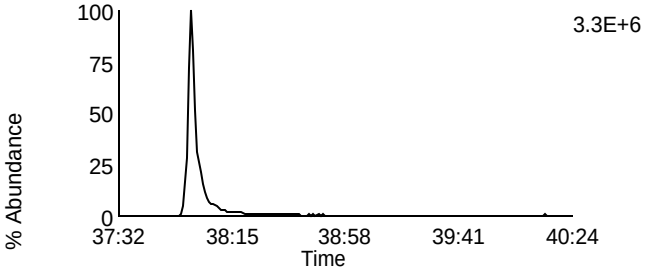
Data File: P140321B_15 G5 C9 - 459.7347
SAMP 10260486007 - BAL PASI-WI



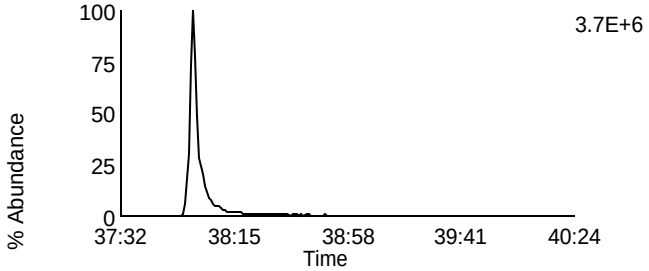
Data File: P140321B_15 G5 C11 - 469.7779
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G5 C11 - 469.7779
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G5 C12 - 471.7749
SAMP 10260486007 - BAL PASI-WI



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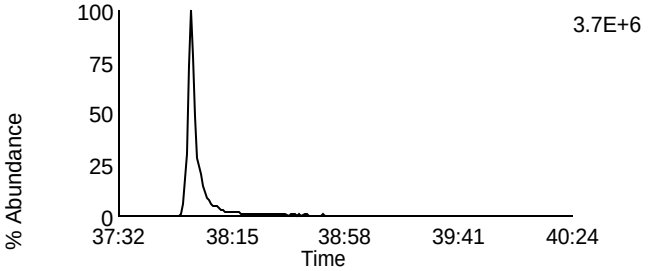
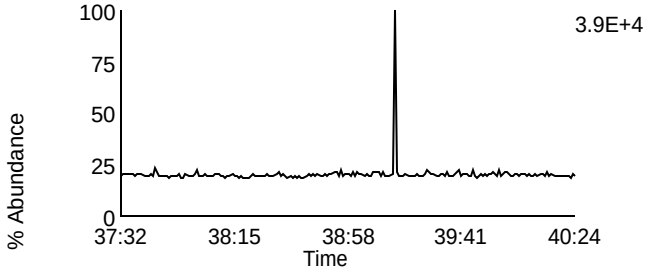
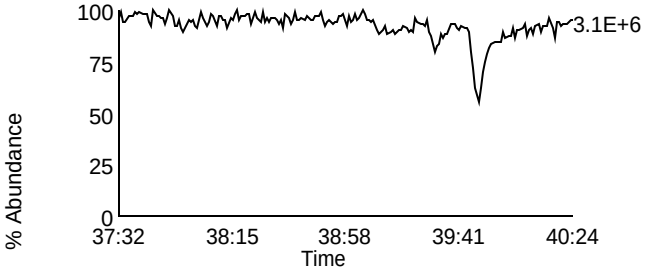


Data File: P140321B_15 G5 C13 - 513.6775
SAMP 10260486007 - BAL PASI-WI



Data File: P140321B_15 G5 C2 - 430.9728
SAMP 10260486007 - BAL PASI-WI

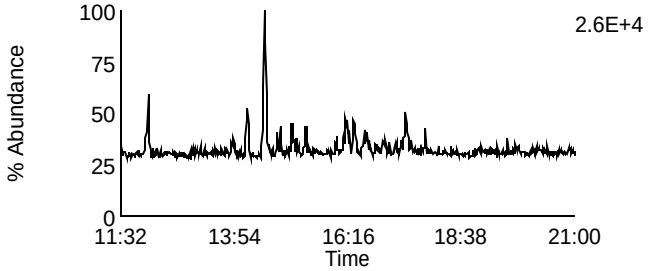


Homologue Group: Tetras

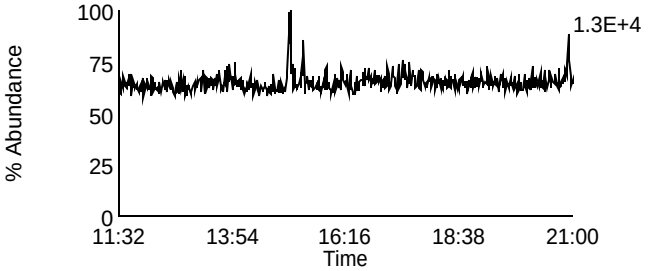
Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

Data File: P140321B_16 G1 C1 - 303.9016
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C7 - 319.8965
SAMP 10260486008 - BAL PASI-WI



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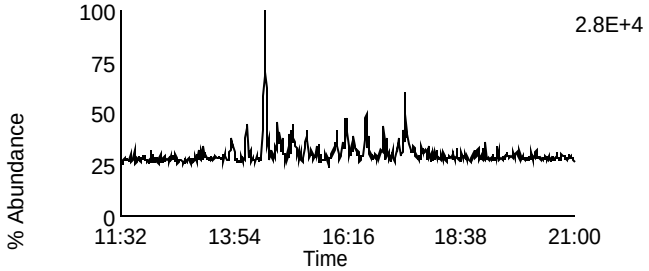
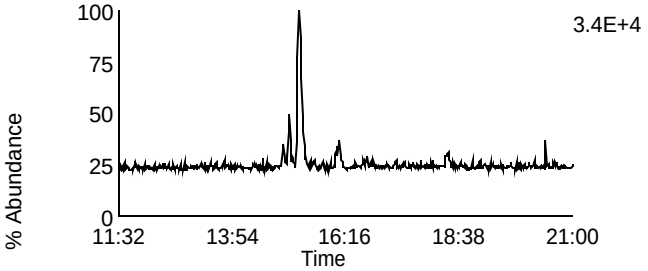
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C8 - 321.8936
SAMP 10260486008 - BAL PASI-WI



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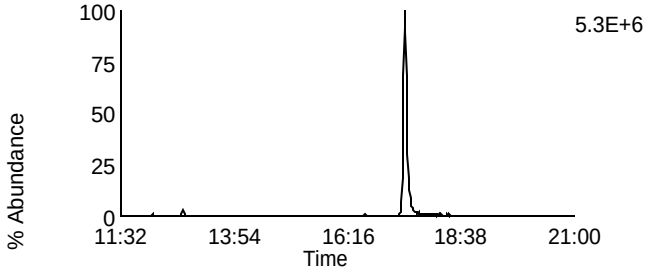
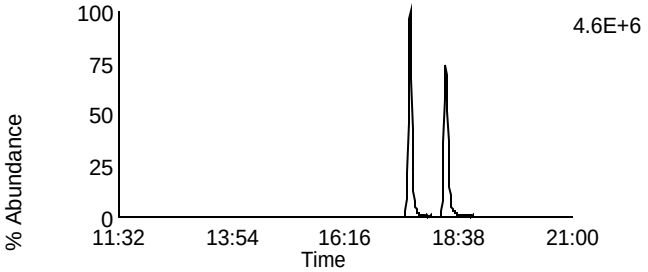
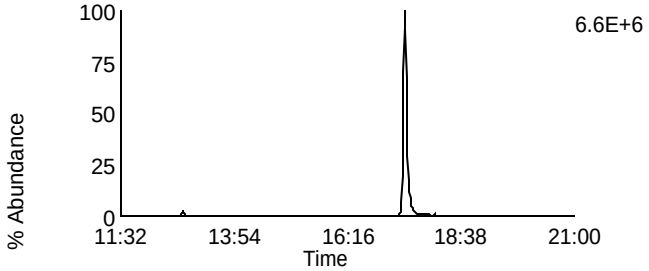
SAMP 10260486008 - BAL PASI-WI



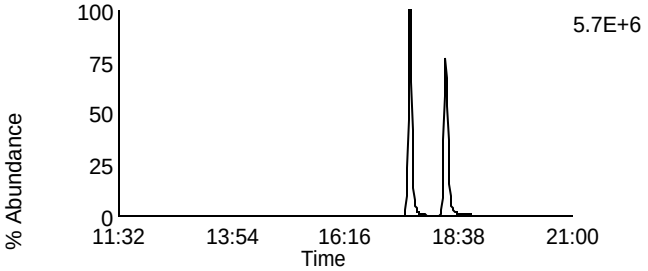
Data File: P140321B_16 G1 C10 - 331.9367
SAMP 10260486008 - BAL PASI-WI



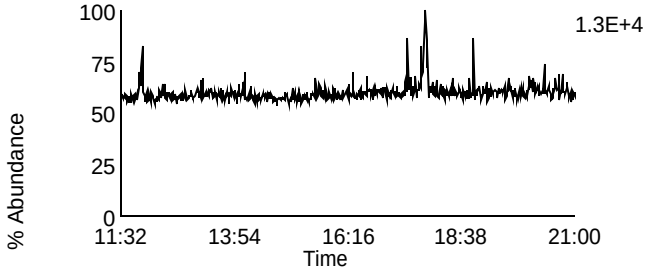
Data File: P140321B_16 G1 C4 - 317.9389
SAMP 10260486008 - BAL PASI-WI



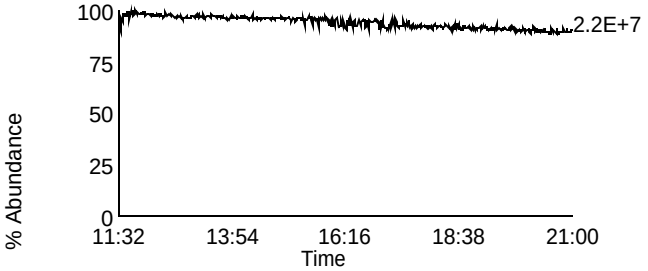
Data File: P140321B_16 G1 C11 - 333.9338
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C14 - 375.8364
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C5 - 318.9792
SAMP 10260486008 - BAL PASI-WI

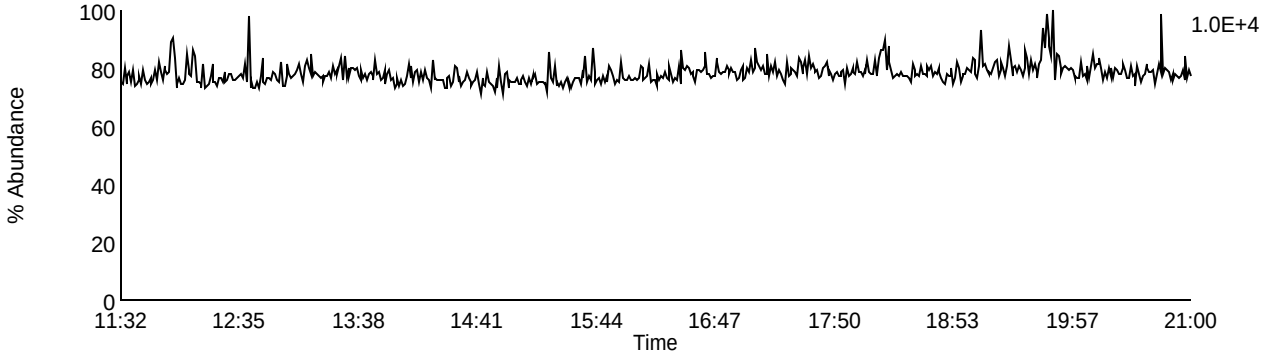


Homologue Group: Penta & Cleanup

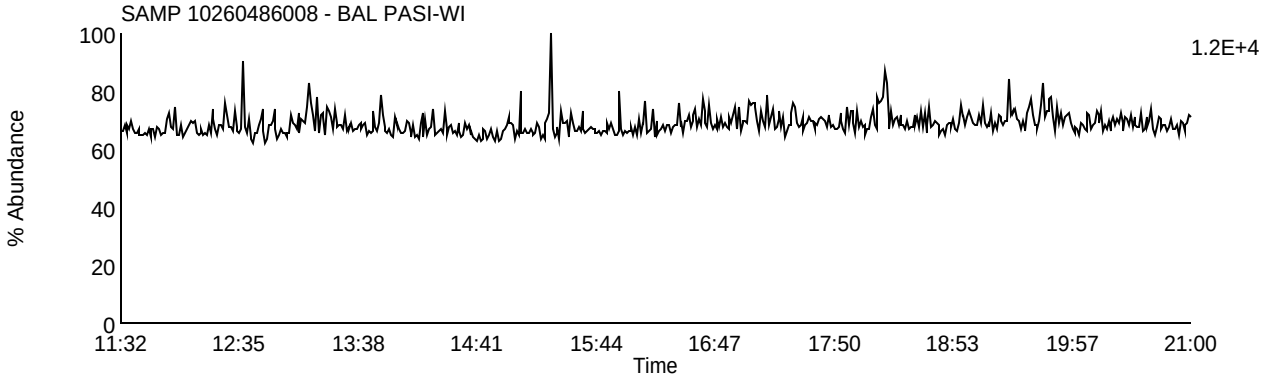
Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

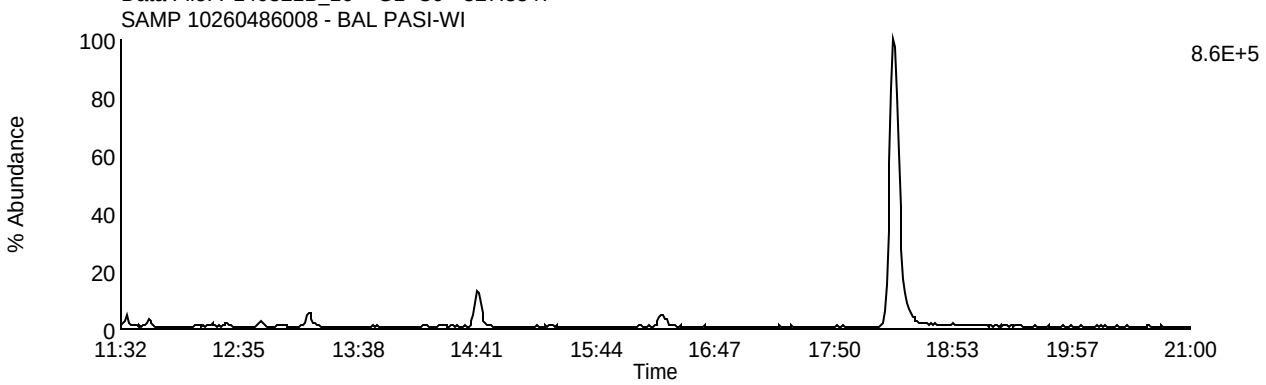
Data File: P140321B_16 G1 C12 - 339.8597
SAMP 10260486008 - BAL PASI-WI



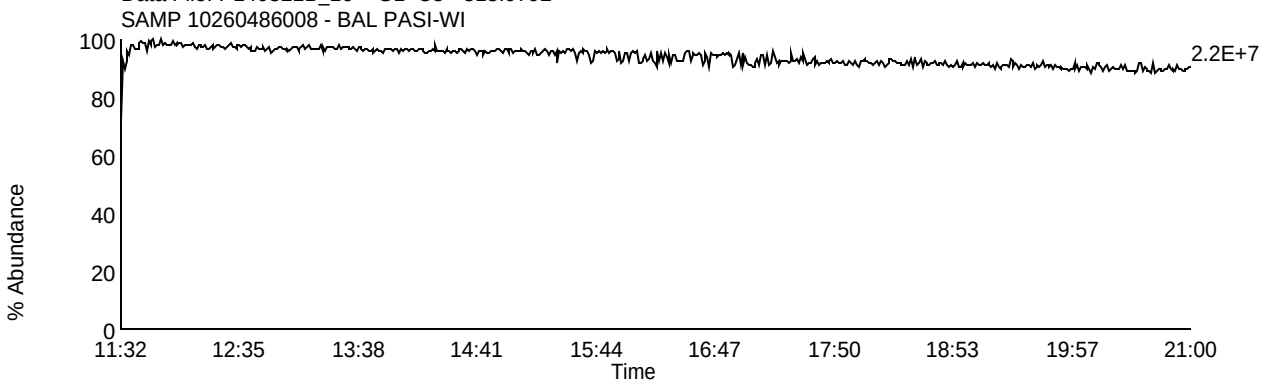
Data File: P140321B_16 G1 C13 - 341.8567
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C9 - 327.8847
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G1 C5 - 318.9792
SAMP 10260486008 - BAL PASI-WI

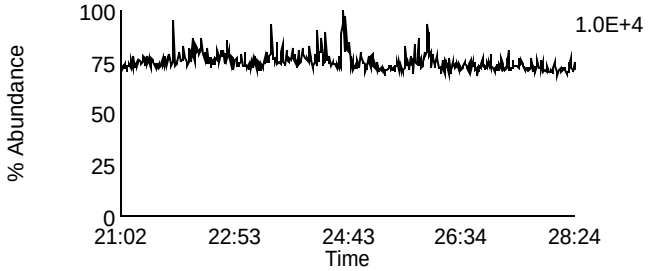


Homologue Group: Pentas

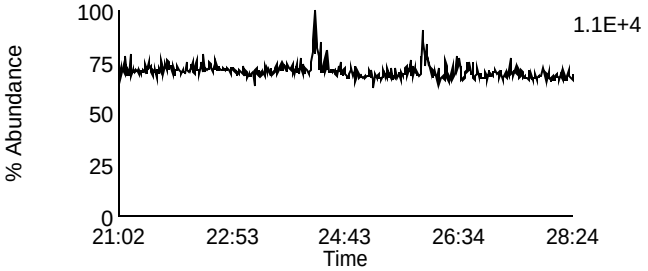
Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

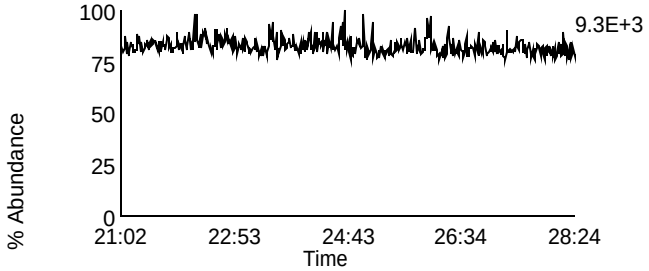
Data File: P140321B_16 G2 C1 - 339.8597
SAMP 10260486008 - BAL PASI-WI



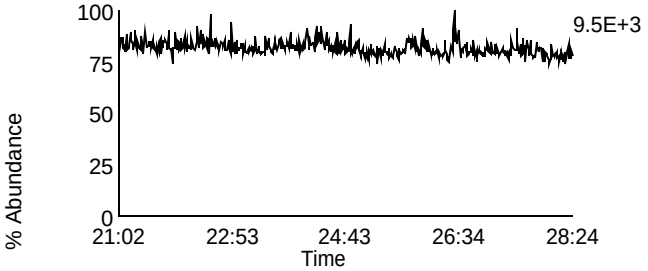
Data File: P140321B_16 G2 C4 - 353.8576
SAMP 10260486008 - BAL PASI-WI



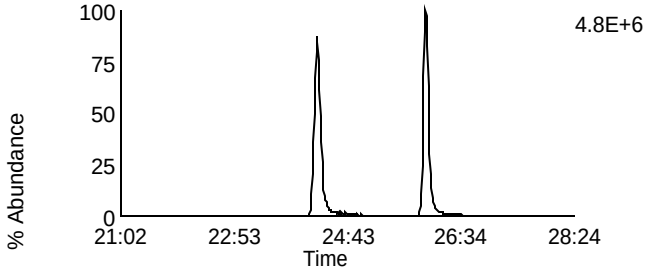
Data File: P140321B_16 G2 C2 - 341.8567
SAMP 10260486008 - BAL PASI-WI



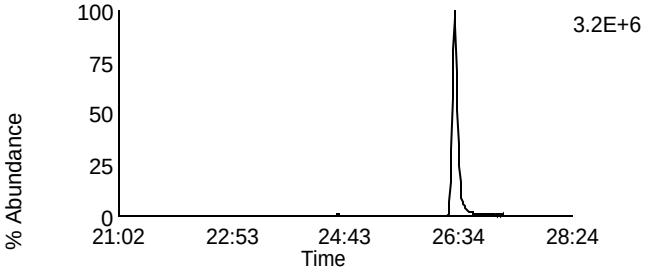
Data File: P140321B_16 G2 C8 - 355.8546
SAMP 10260486008 - BAL PASI-WI



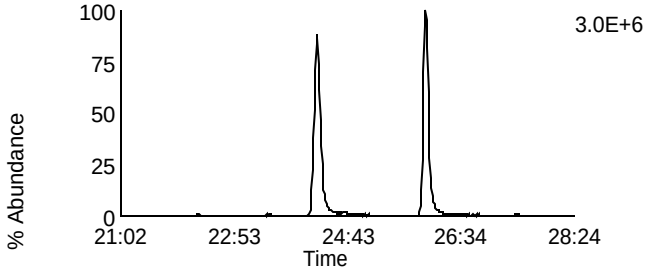
Data File: P140321B_16 G2 C3 - 351.8999
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G2 C10 - 367.8948
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G2 C5 - 353.8969
SAMP 10260486008 - BAL PASI-WI



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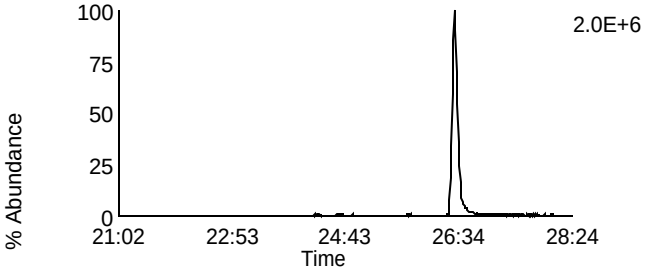
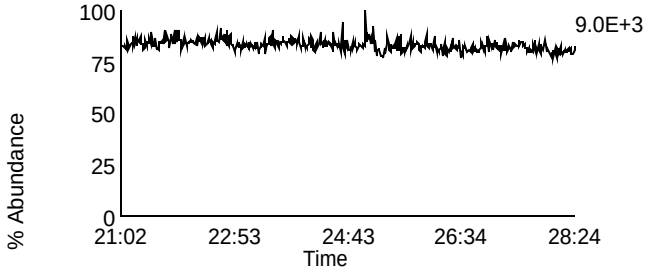
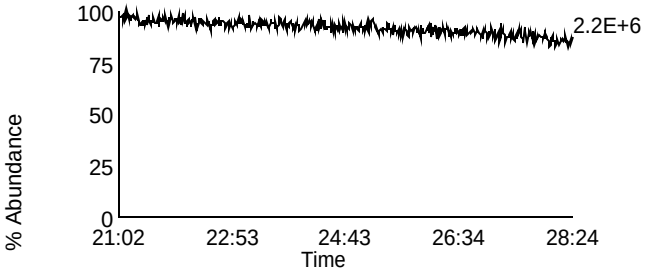
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G2 C12 - 409.7974
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G2 C6 - 354.9792
SAMP 10260486008 - BAL PASI-WI

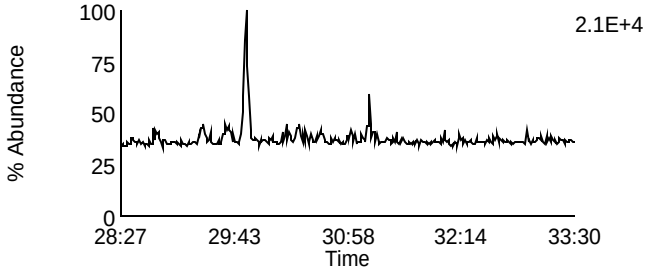


Homologue Group: Hexas

Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

Data File: P140321B_16 G3 C1 - 373.8207
SAMP 10260486008 - BAL PASI-WI



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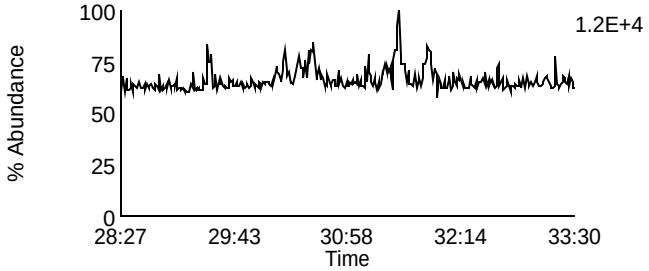
SAMP 10260486008 - BAL PASI-WI



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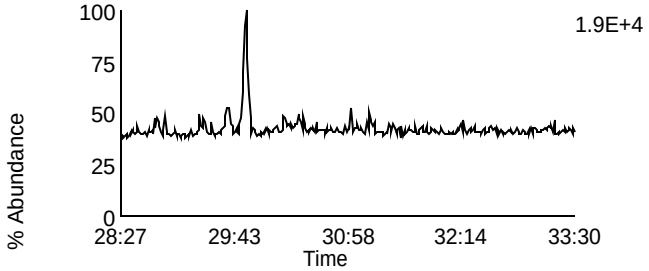
SAMP 10260486008 - BAL PASI-WI



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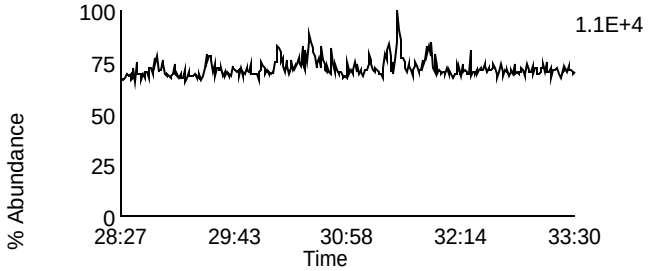
SAMP 10260486008 - BAL PASI-WI



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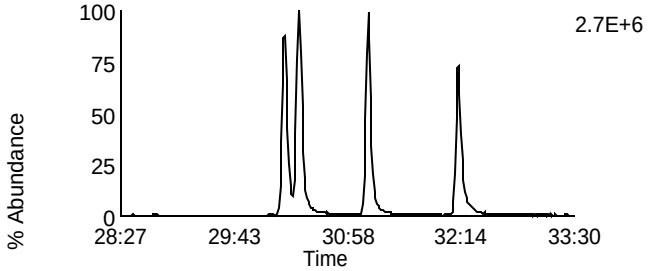
SAMP 10260486008 - BAL PASI-WI



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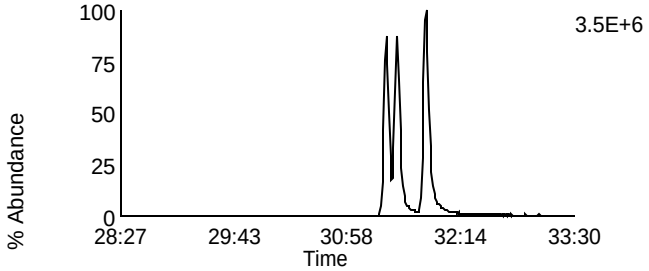
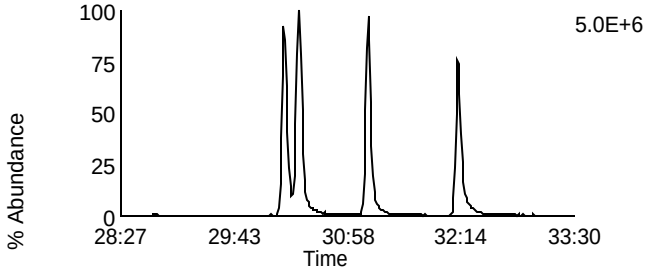
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G3 C6 - 385.861
SAMP 10260486008 - BAL PASI-WI



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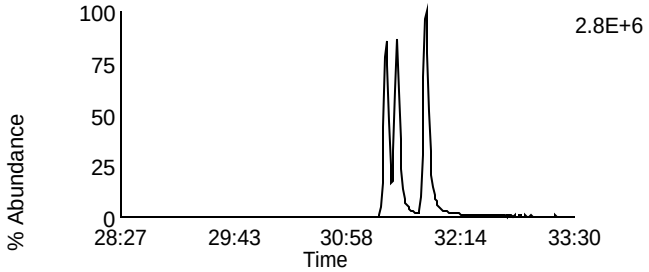

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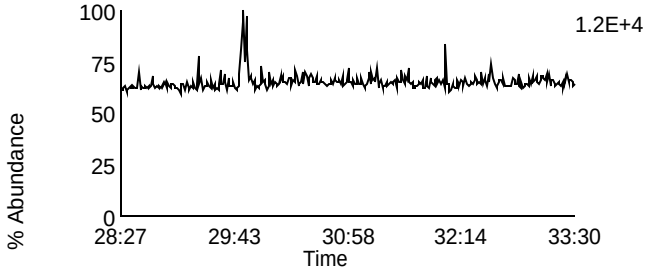
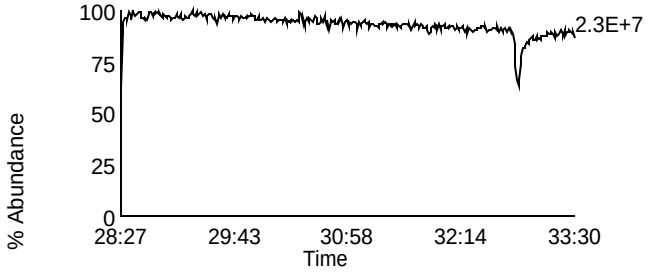


Data File: P140321B_16 G3 C3 - 380.976
SAMP 10260486008 - BAL PASI-WI

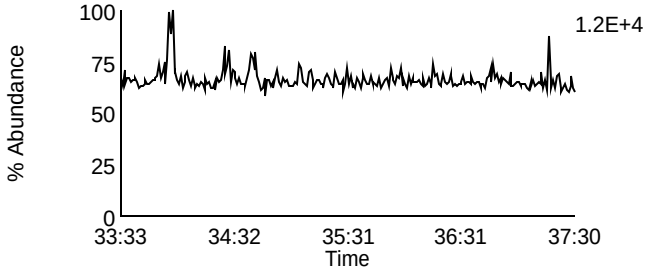


Homologue Group: Heptas

Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

Data File: P140321B_16 G4 C3 - 407.7818
SAMP 10260486008 - BAL PASI-WI



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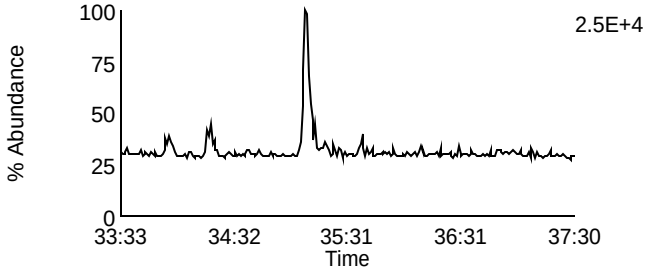

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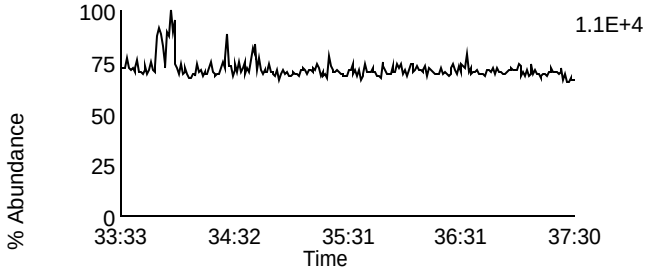
SAMP 10260486008 - BAL PASI-WI



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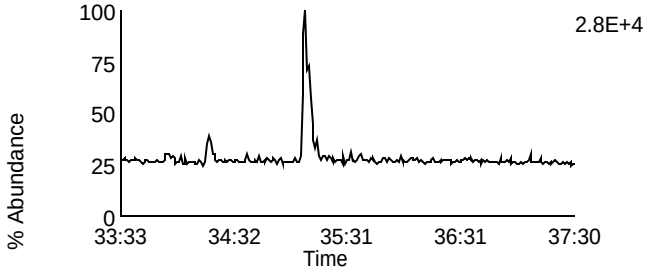
SAMP 10260486008 - BAL PASI-WI



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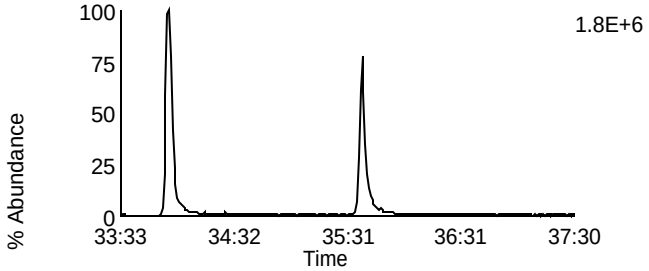
SAMP 10260486008 - BAL PASI-WI



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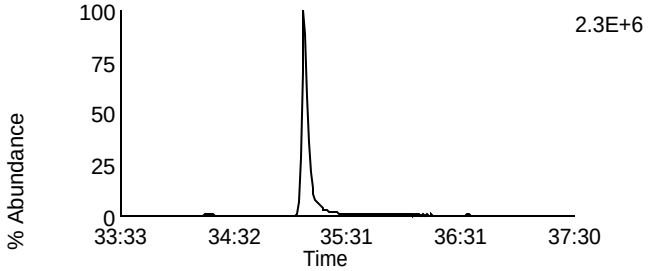
SAMP 10260486008 - BAL PASI-WI



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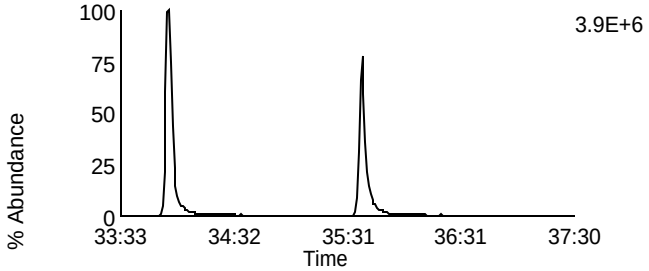
SAMP 10260486008 - BAL PASI-WI



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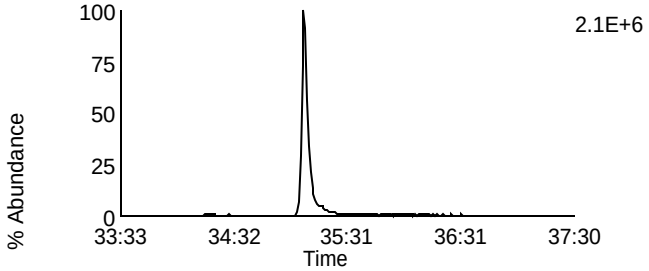

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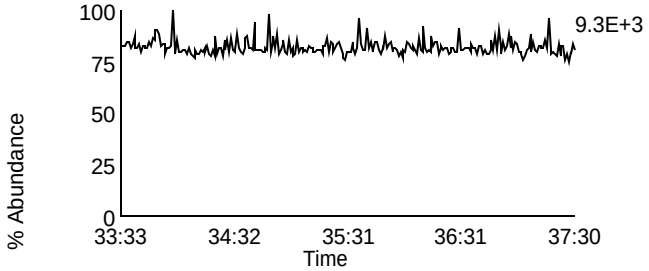
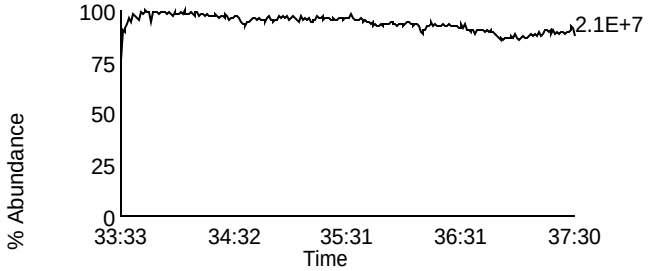
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G4 C1 - 380.976
SAMP 10260486008 - BAL PASI-WI

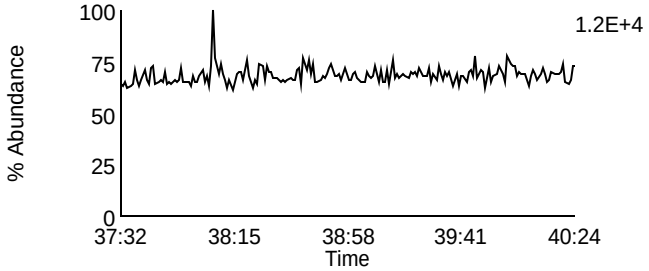


Homologue Group: Octas

Data File Name: P140321B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008 - BAL PASI-WI

Lab Sample ID: 10260486008
Client Sample ID: MAK120C
Instrument: 10MSHR09 (P)

Data File: P140321B_16 G5 C4 - 441.7428
SAMP 10260486008 - BAL PASI-WI



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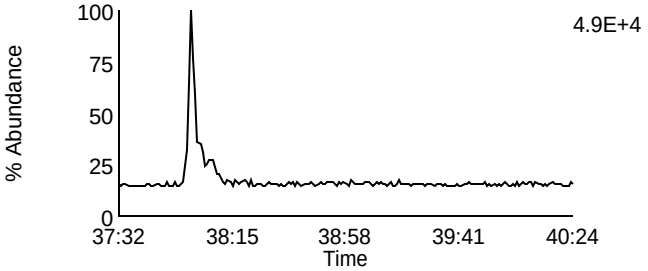
SAMP 10260486008 - BAL PASI-WI



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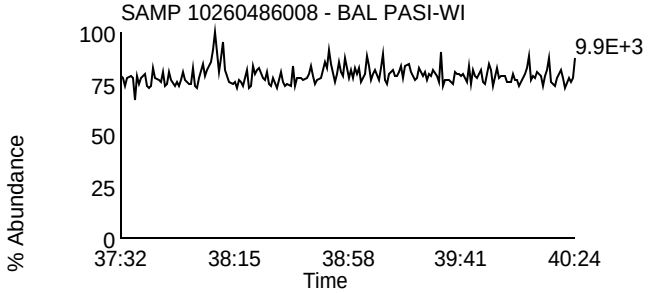
SAMP 10260486008 - BAL PASI-WI



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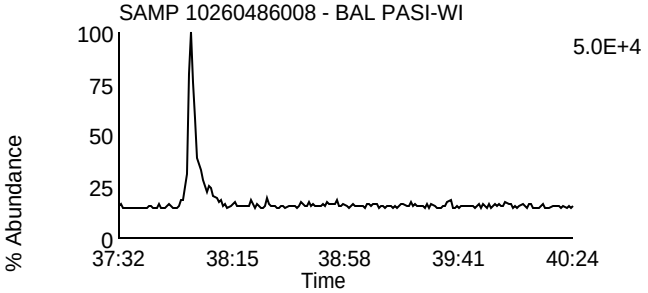
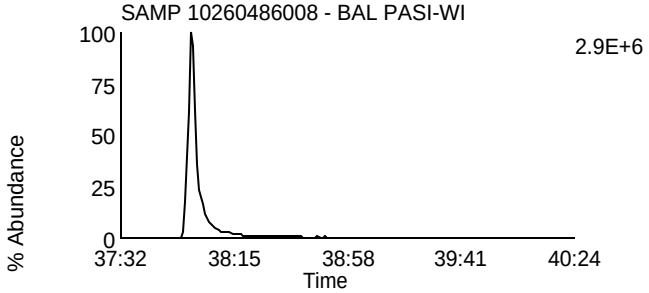
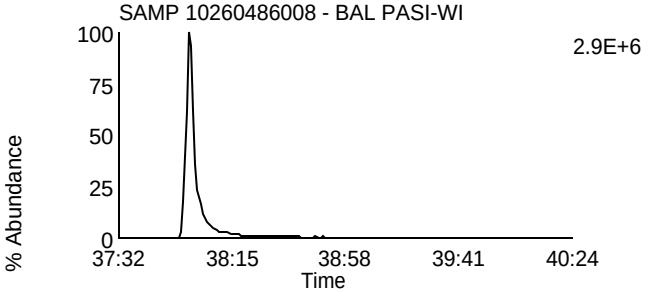
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G5 C11 - 469.7779
SAMP 10260486008 - BAL PASI-WI



Data File: P140321B_16 G5 C11 - 469.7779
SAMP 10260486008 - BAL PASI-WI



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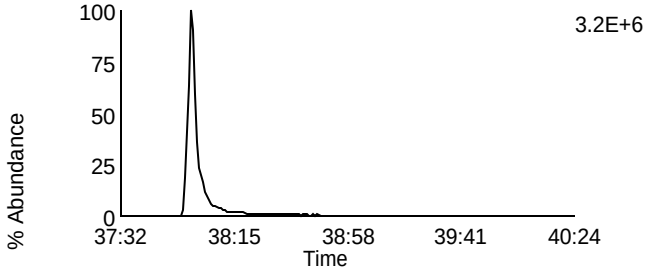
SAMP 10260486008 - BAL PASI-WI



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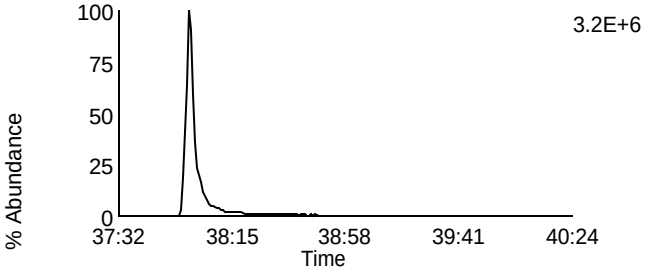
SAMP 10260486008 - BAL PASI-WI



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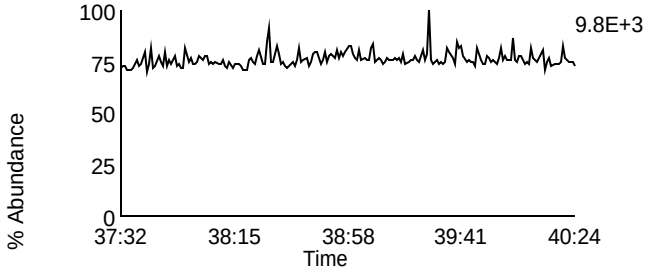
SAMP 10260486008 - BAL PASI-WI



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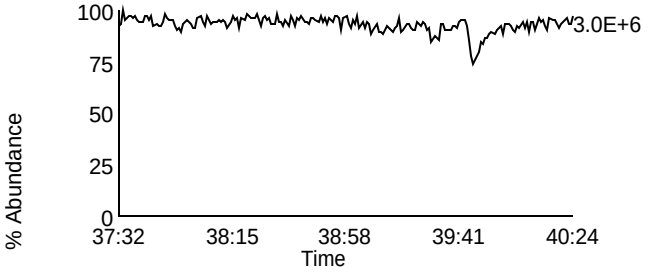
SAMP 10260486008 - BAL PASI-WI

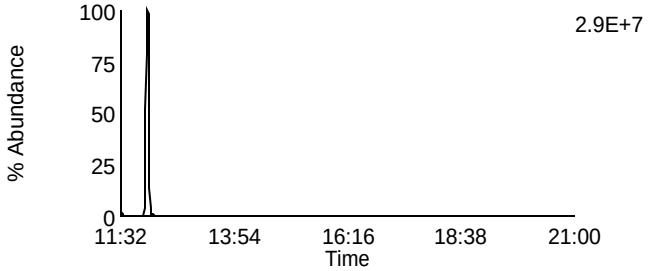


Homologue Group: Tetras

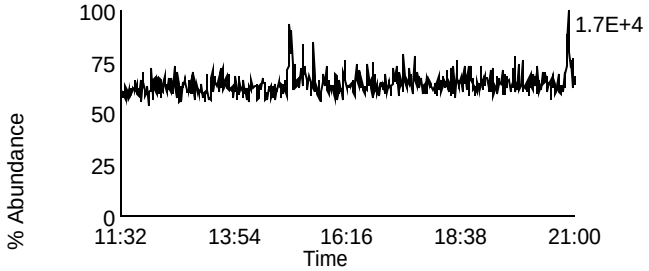
Data File Name: P140322B_04
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486009 - BAL PASI-WI

Lab Sample ID: 10260486009
Client Sample ID: MAK120L
Instrument: 10MSHR09 (P)

Data File: P140322B_04 G1 C1 - 303.9016
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G1 C7 - 319.8965
SAMP 10260486009 - BAL PASI-WI



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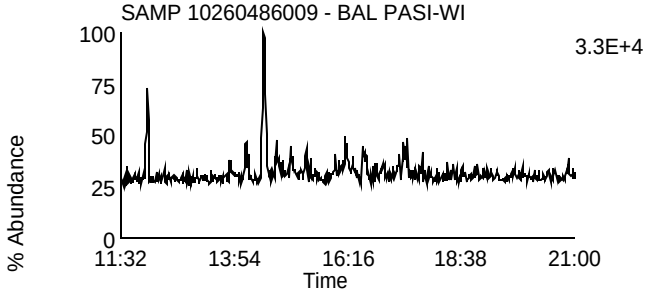

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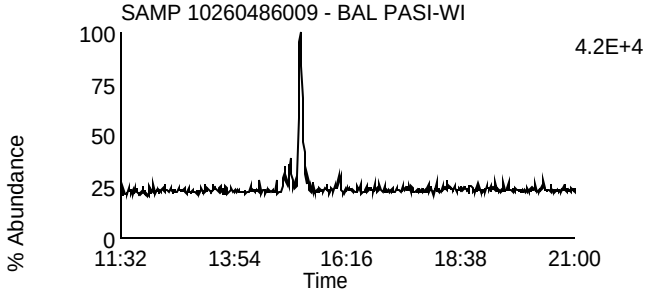
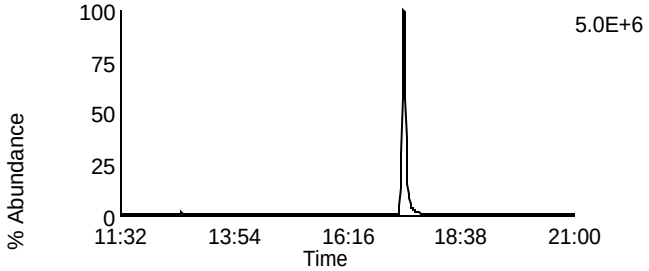


Data File: P140322B_04 G1 C3 - 315.9418
SAMP 10260486009 - BAL PASI-WI



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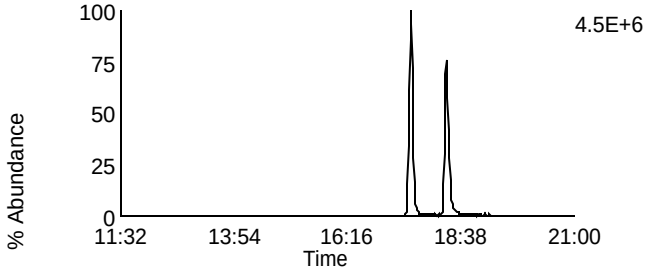
SAMP 10260486009 - BAL PASI-WI



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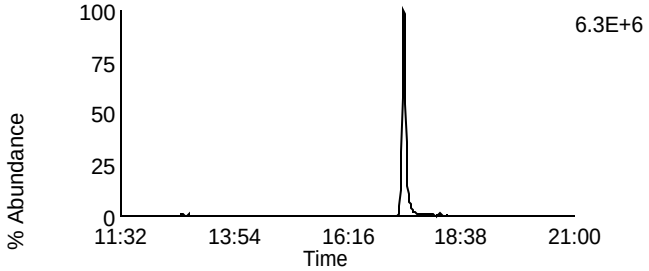
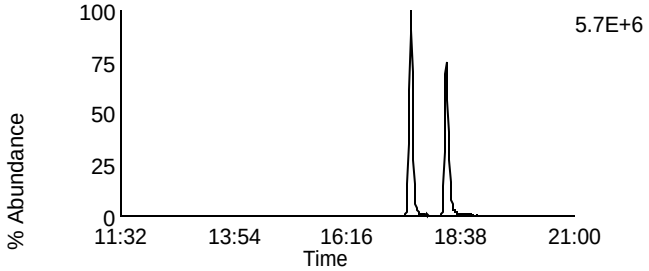
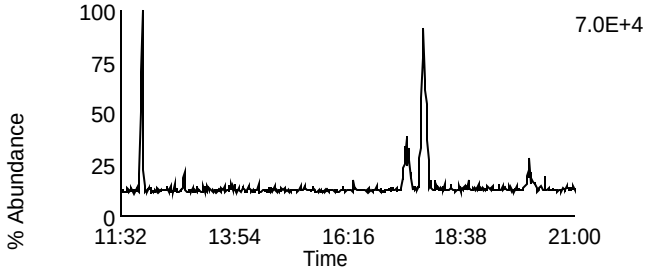
SAMP 10260486009 - BAL PASI-WI



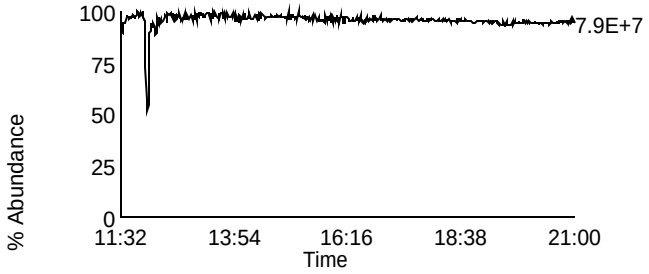
Data File: P140322B_04 G1 C11 - 333.9338
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G1 C14 - 375.8364
SAMP 10260486009 - BAL PASI-WI



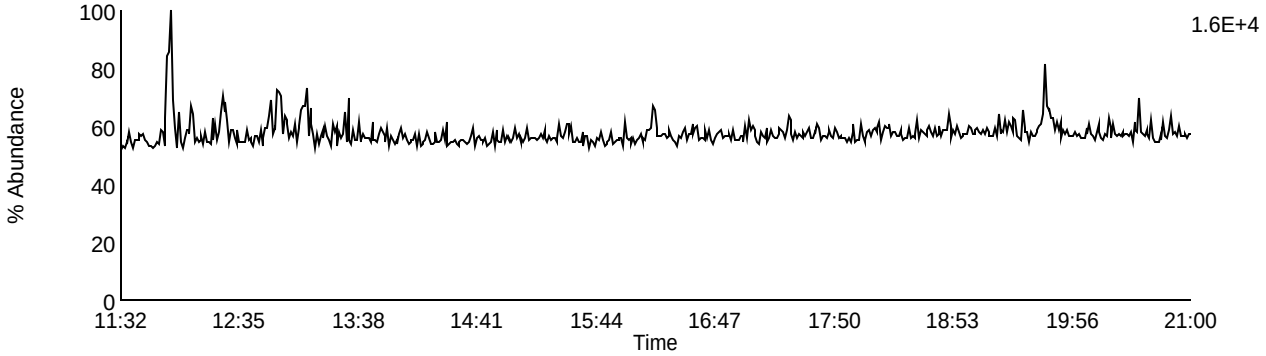
Data File: P140322B_04 G1 C5 - 318.9792
SAMP 10260486009 - BAL PASI-WI



Homologue Group: Penta & Cleanup

Data File Name: P140322B_04	Lab Sample ID: 10260486009
Date Acquired: 3/22/2014	Client Sample ID: MAK120L
Sample Description: SAMP 10260486009 - BAL PASI-WI	Instrument: 10MSHR09 (P)

Data File: P140322B_04 G1 C12 - 339.8597
SAMP 10260486009 - BAL PASI-WI



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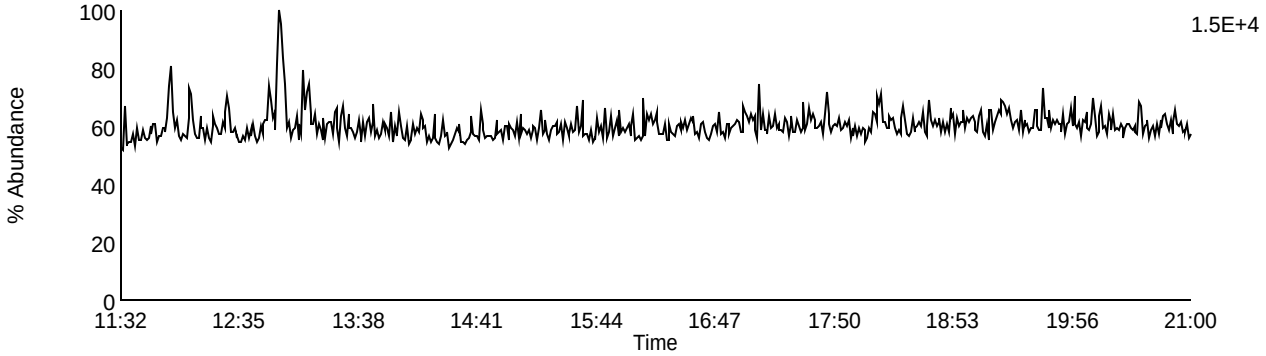
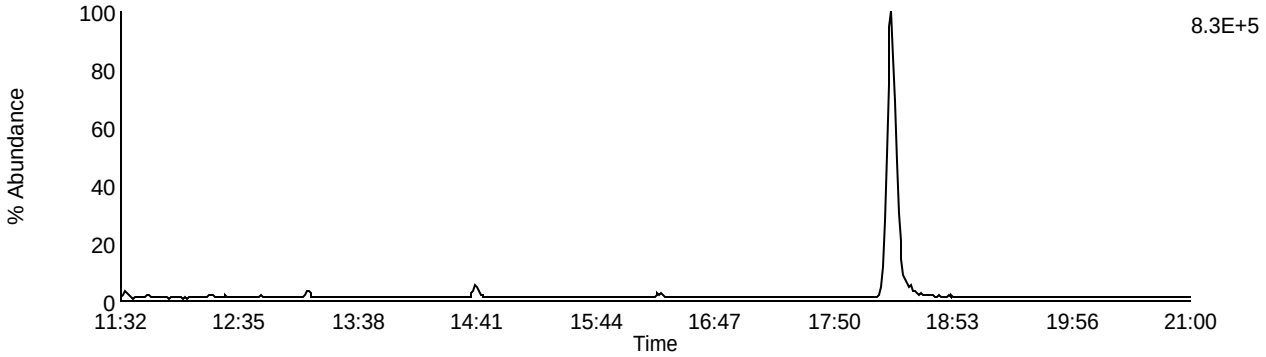
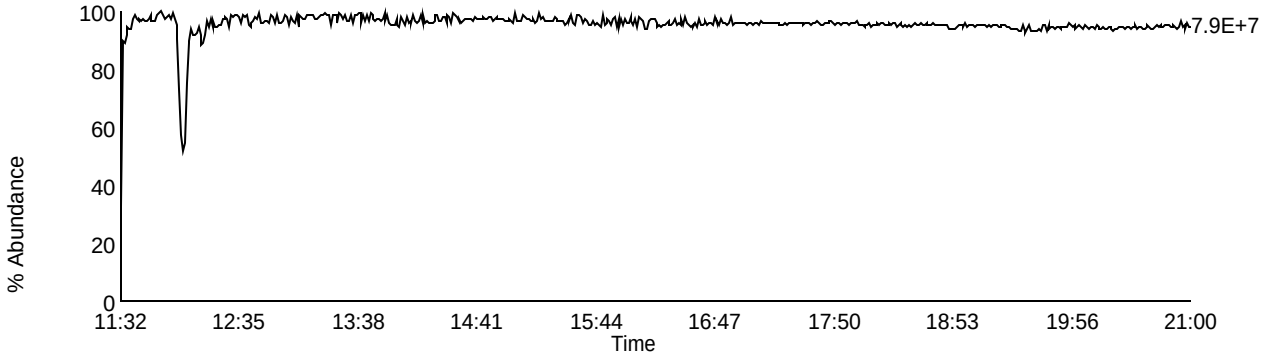
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G1 C9 - 327.8847
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G1 C5 - 318.9792
SAMP 10260486009 - BAL PASI-WI

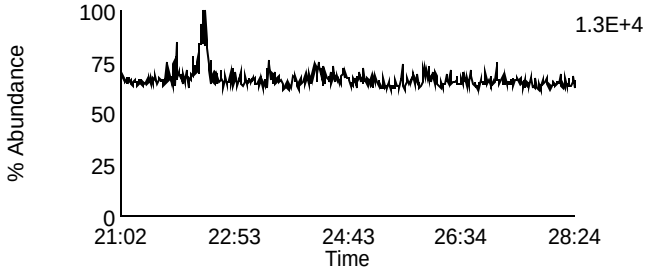


Homologue Group: Pentas

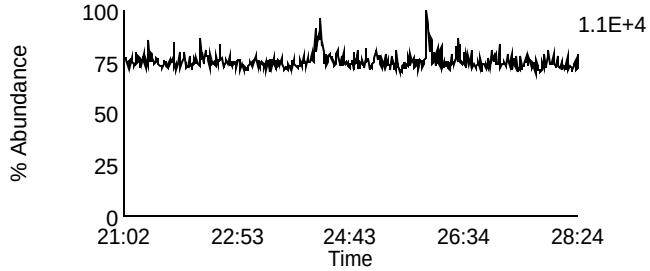
Data File Name: P140322B_04
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486009 - BAL PASI-WI

Lab Sample ID: 10260486009
Client Sample ID: MAK120L
Instrument: 10MSHR09 (P)

Data File: P140322B_04 G2 C1 - 339.8597
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G2 C4 - 353.8576
SAMP 10260486009 - BAL PASI-WI



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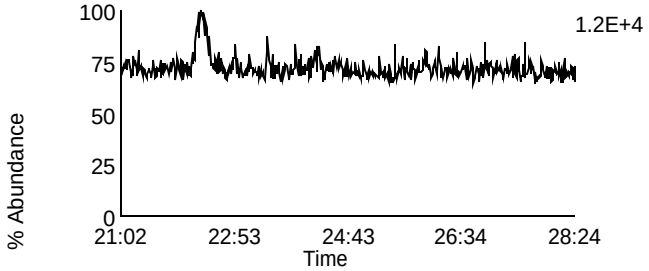
SAMP 10260486009 - BAL PASI-WI



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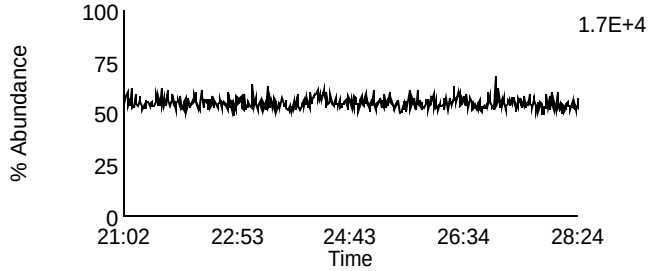
SAMP 10260486009 - BAL PASI-WI



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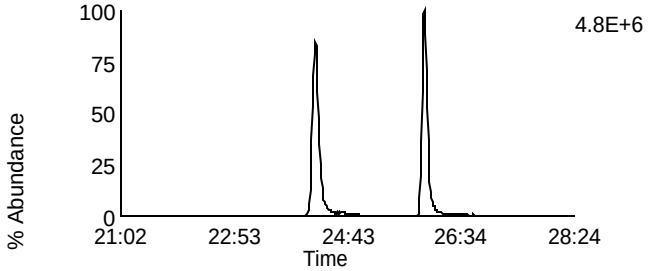
SAMP 10260486009 - BAL PASI-WI



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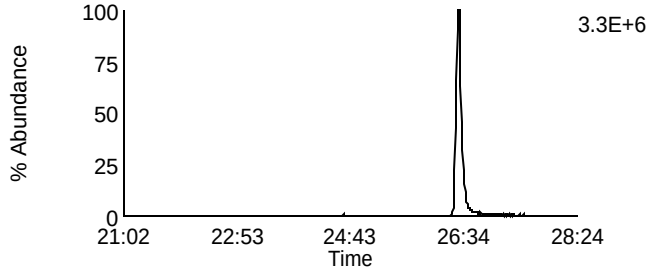
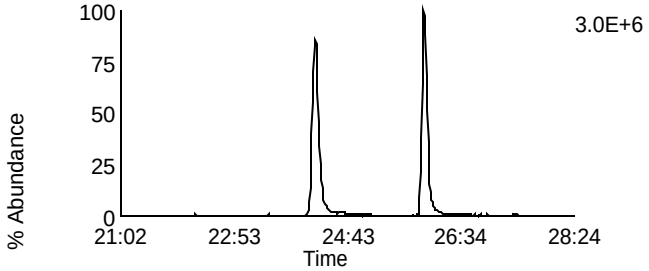
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G2 C5 - 353.8969
SAMP 10260486009 - BAL PASI-WI



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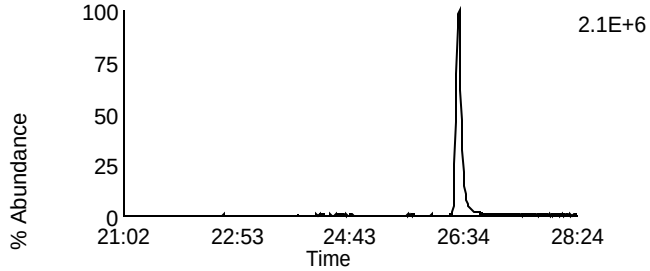
SAMP 10260486009 - BAL PASI-WI



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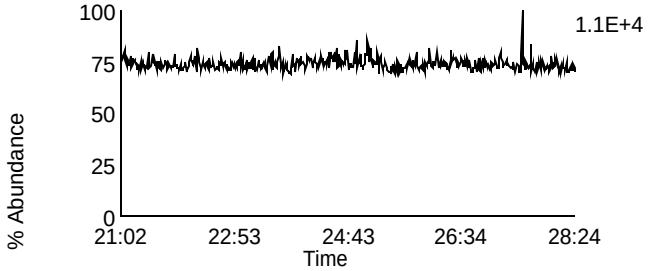
SAMP 10260486009 - BAL PASI-WI



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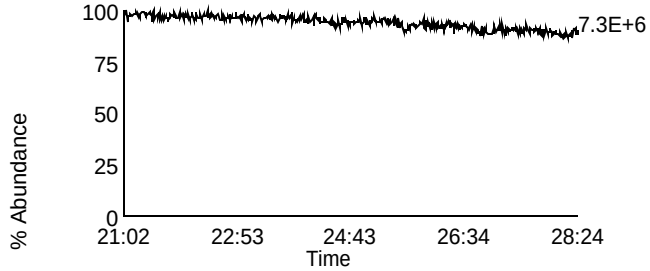
SAMP 10260486009 - BAL PASI-WI

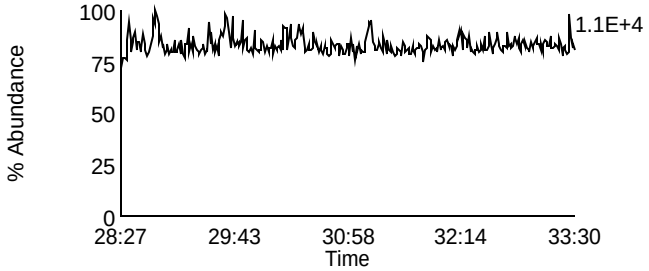


Homologue Group: Hexas

Data File Name: P140322B_04
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486009 - BAL PASI-WI

Lab Sample ID: 10260486009
Client Sample ID: MAK120L
Instrument: 10MSHR09 (P)

Data File: P140322B_04 G3 C1 - 373.8207
SAMP 10260486009 - BAL PASI-WI



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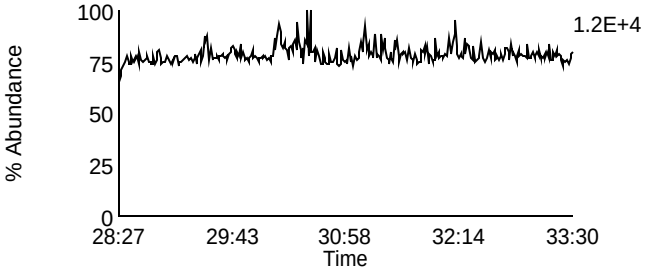
SAMP 10260486009 - BAL PASI-WI



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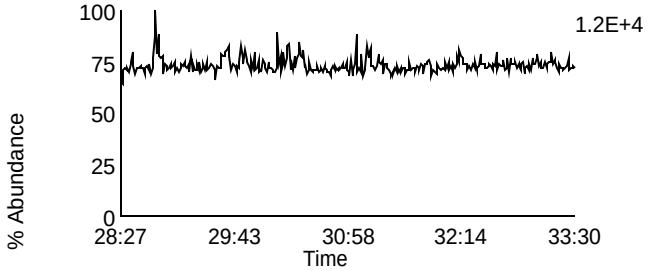
SAMP 10260486009 - BAL PASI-WI



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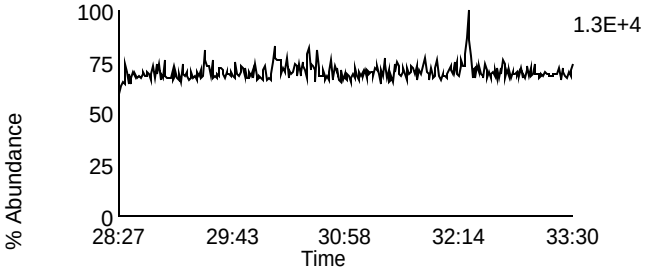
SAMP 10260486009 - BAL PASI-WI



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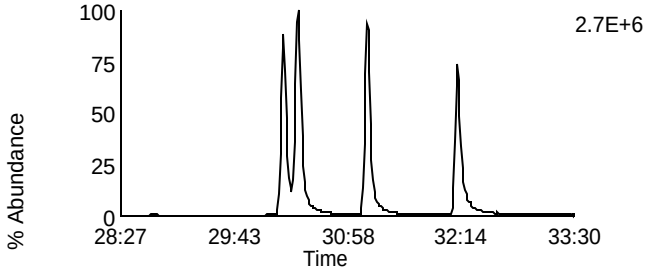
SAMP 10260486009 - BAL PASI-WI



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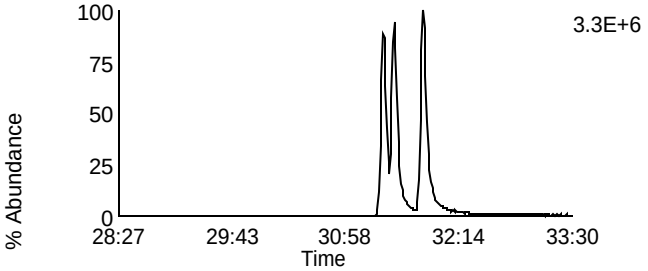
SAMP 10260486009 - BAL PASI-WI



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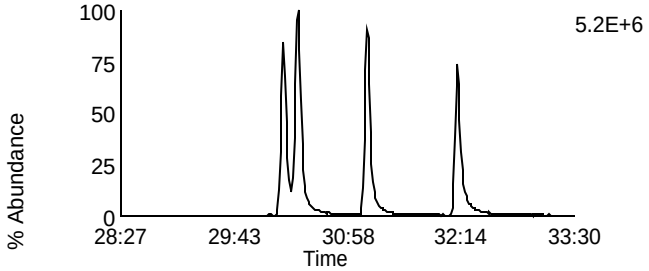
SAMP 10260486009 - BAL PASI-WI



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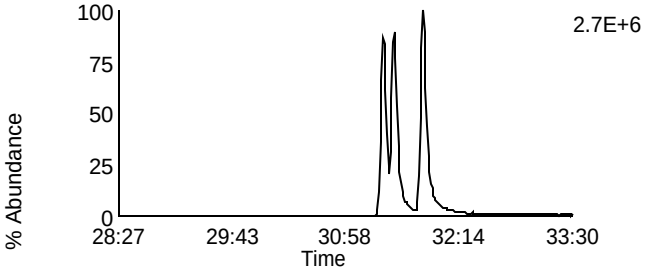

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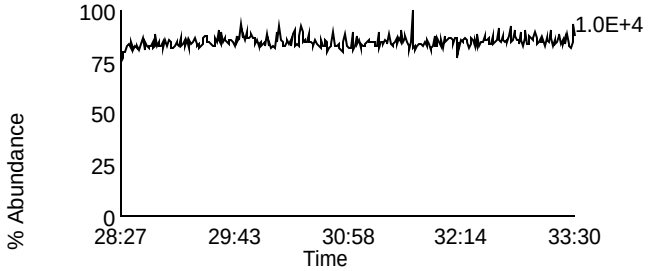
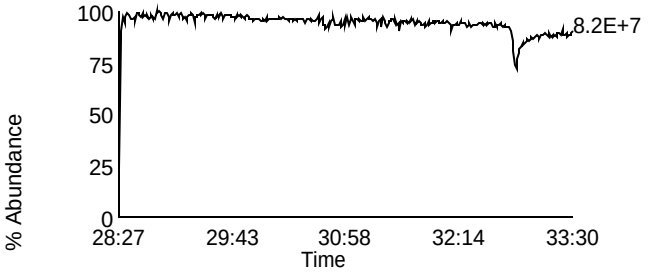


Data File: P140322B_04 G3 C3 - 380.976
SAMP 10260486009 - BAL PASI-WI

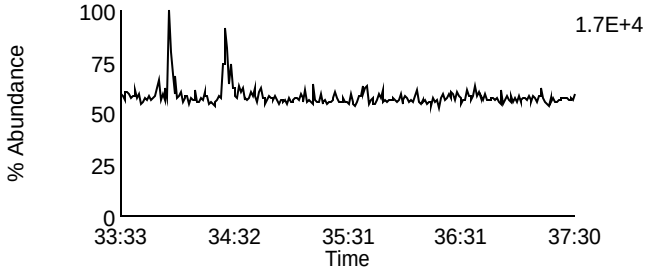


Homologue Group: Heptas

Data File Name: P140322B_04
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486009 - BAL PASI-WI

Lab Sample ID: 10260486009
Client Sample ID: MAK120L
Instrument: 10MSHR09 (P)

Data File: P140322B_04 G4 C3 - 407.7818
SAMP 10260486009 - BAL PASI-WI



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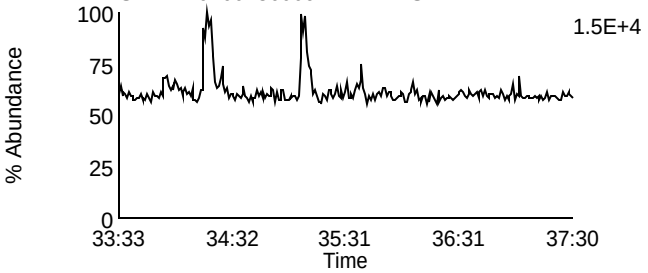
SAMP 10260486009 - BAL PASI-WI



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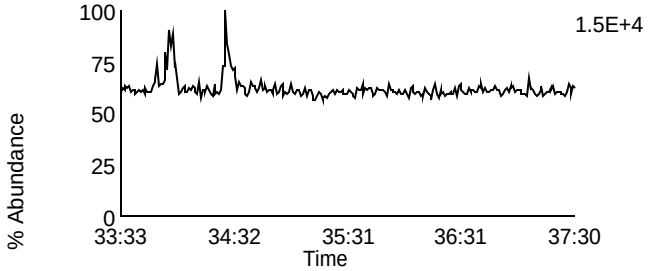

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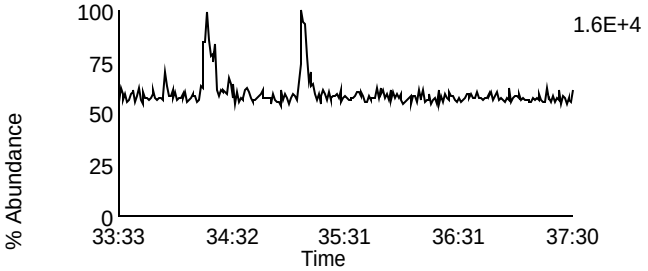
SAMP 10260486009 - BAL PASI-WI



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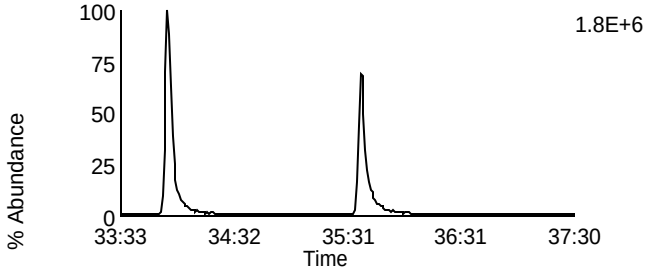
SAMP 10260486009 - BAL PASI-WI



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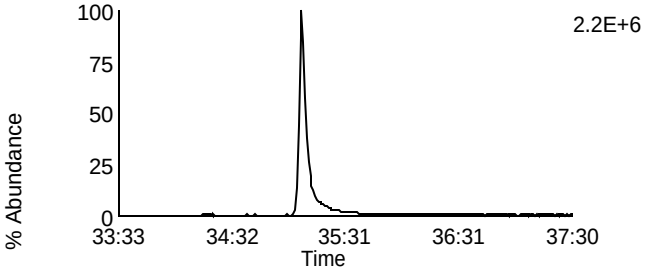
SAMP 10260486009 - BAL PASI-WI



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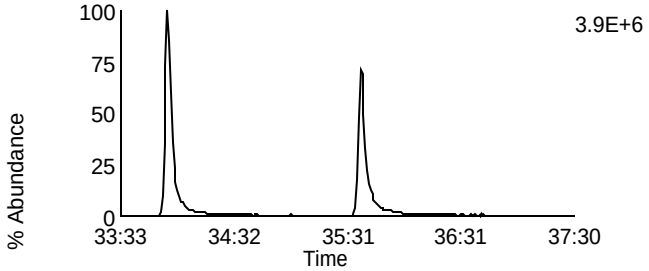
SAMP 10260486009 - BAL PASI-WI



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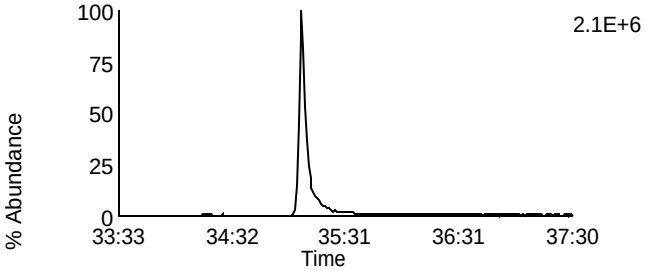

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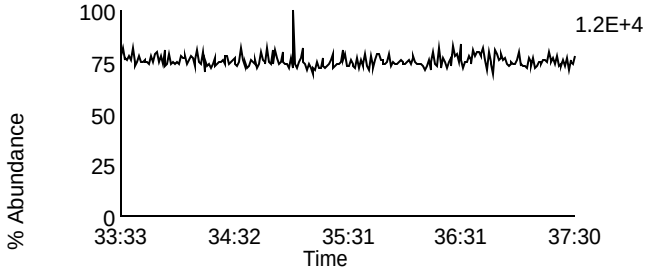
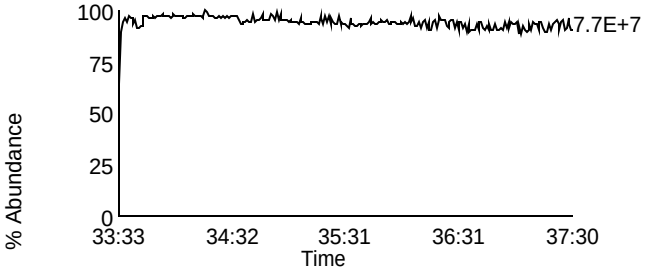
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G4 C1 - 380.976
SAMP 10260486009 - BAL PASI-WI

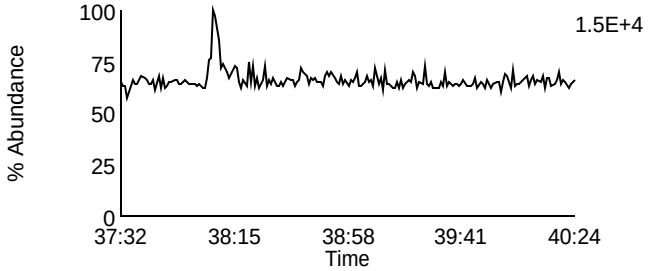


Homologue Group: Octas

Data File Name: P140322B_04
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486009 - BAL PASI-WI

Lab Sample ID: 10260486009
Client Sample ID: MAK120L
Instrument: 10MSHR09 (P)

Data File: P140322B_04 G5 C4 - 441.7428
SAMP 10260486009 - BAL PASI-WI



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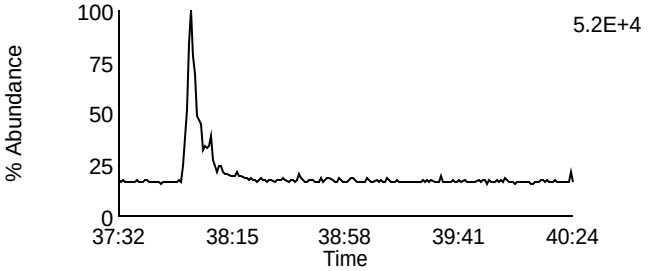
SAMP 10260486009 - BAL PASI-WI



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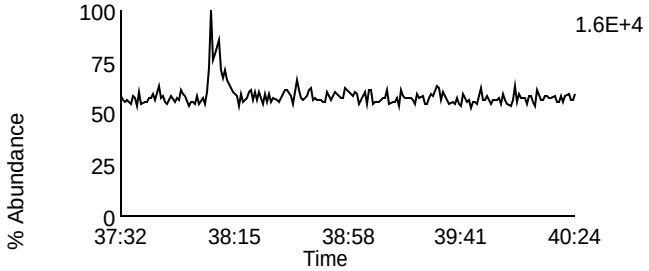
SAMP 10260486009 - BAL PASI-WI



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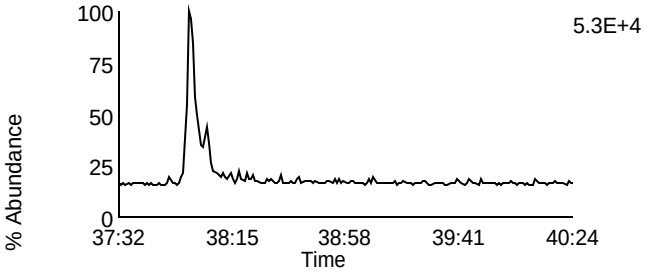
SAMP 10260486009 - BAL PASI-WI



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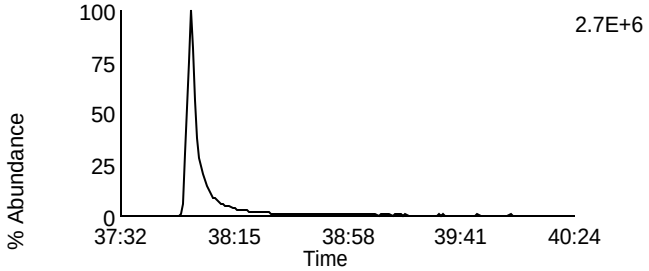
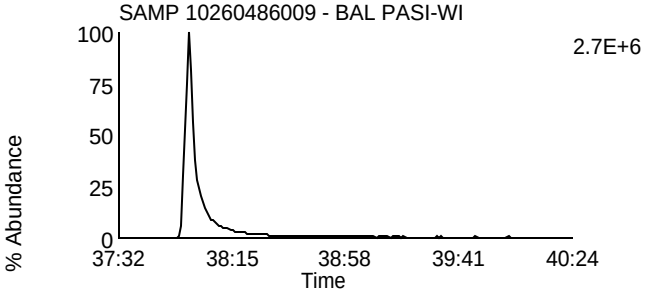
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G5 C11 - 469.7779
SAMP 10260486009 - BAL PASI-WI



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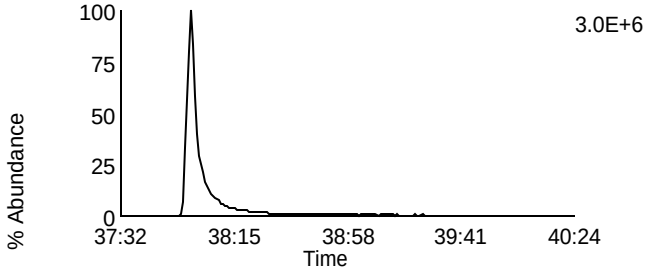
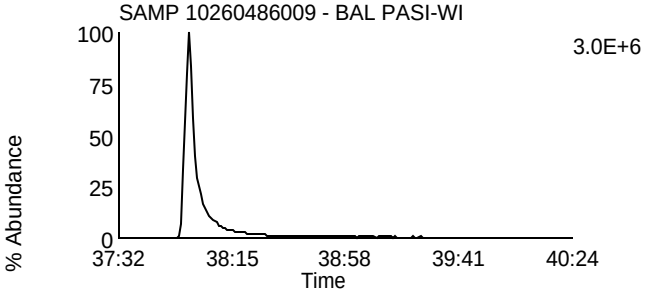
SAMP 10260486009 - BAL PASI-WI



Data File: P140322B_04 G5 C12 - 471.7749
SAMP 10260486009 - BAL PASI-WI



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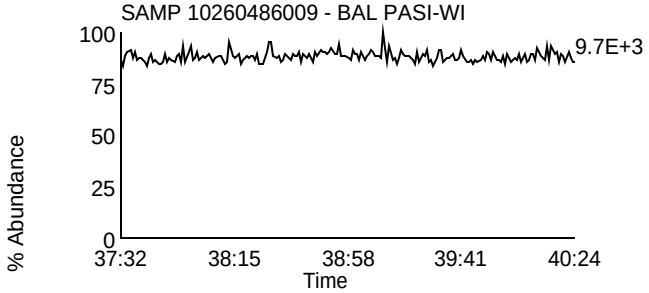
SAMP 10260486009 - BAL PASI-WI



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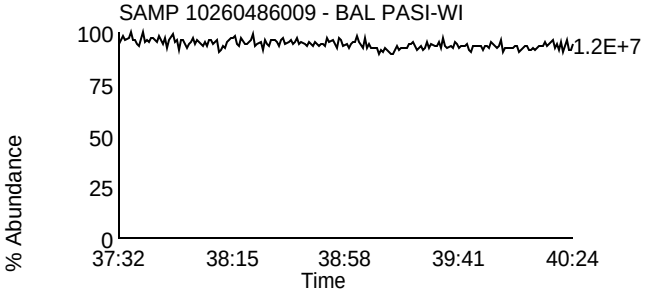
SAMP 10260486009 - BAL PASI-WI

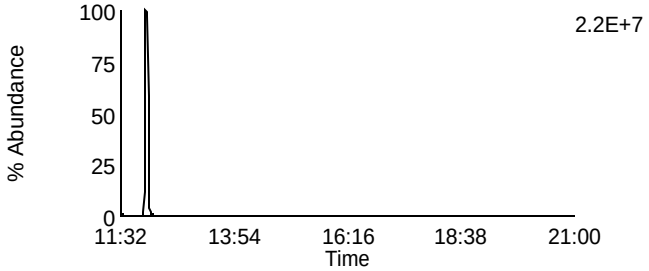


Homologue Group: Tetras

Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

Data File: P140322B_05 G1 C1 - 303.9016
SAMP 10260486010 - BAL PASI-WI



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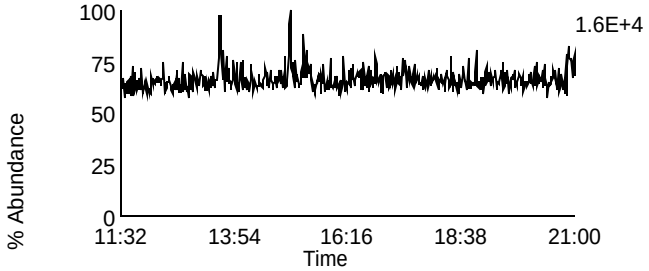
SAMP 10260486010 - BAL PASI-WI



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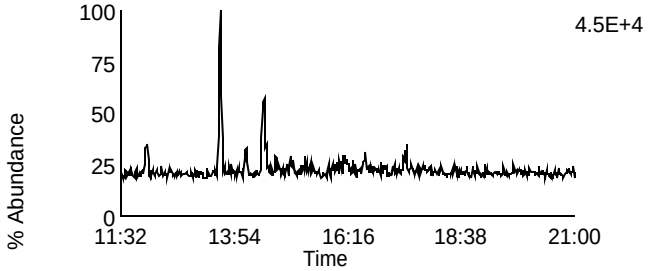
SAMP 10260486010 - BAL PASI-WI



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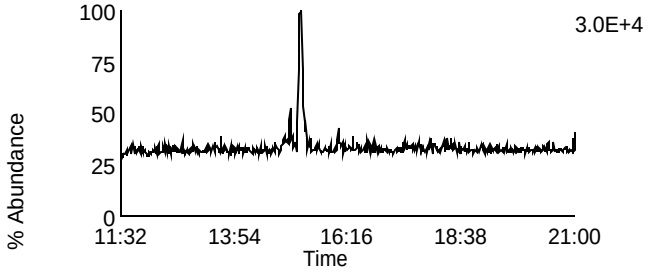
SAMP 10260486010 - BAL PASI-WI



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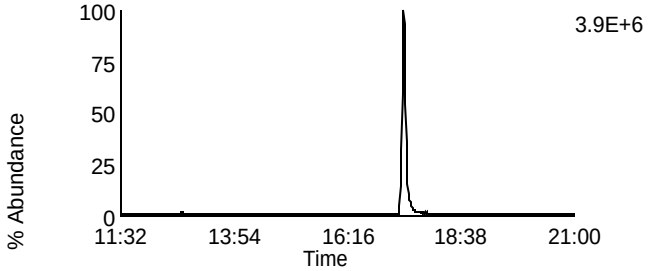
SAMP 10260486010 - BAL PASI-WI



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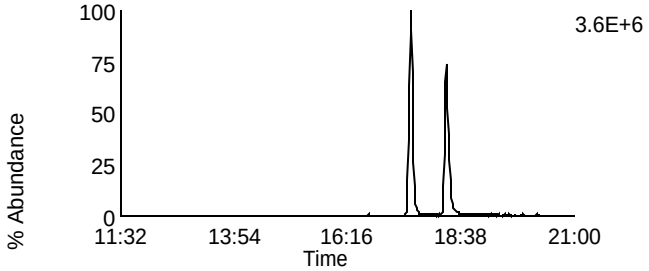
SAMP 10260486010 - BAL PASI-WI



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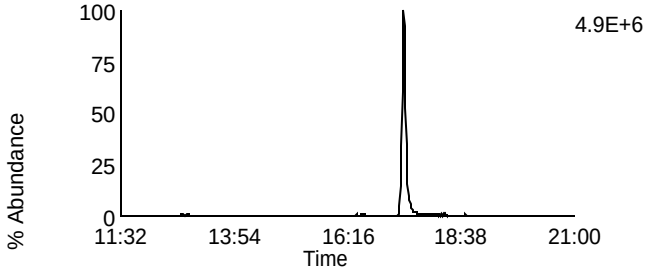
SAMP 10260486010 - BAL PASI-WI



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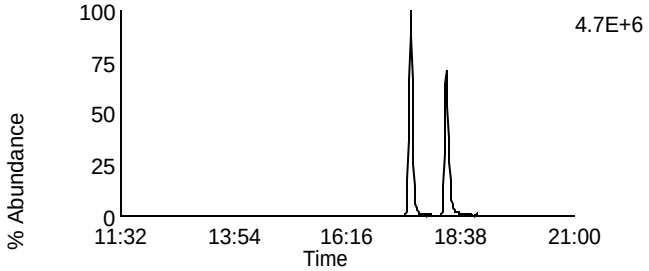
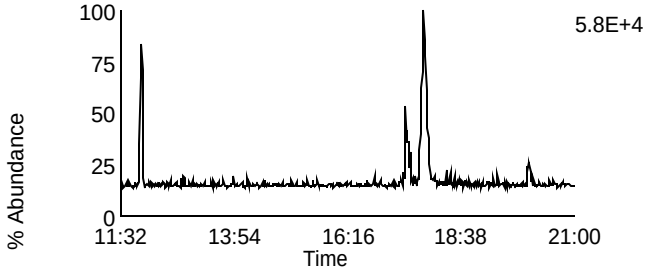
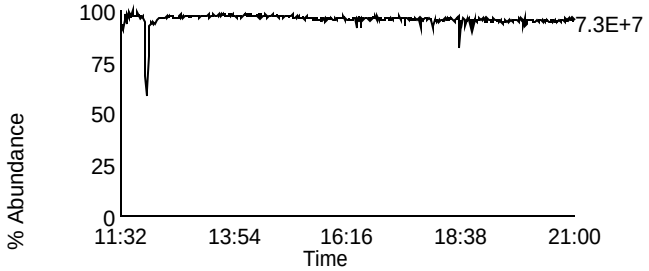
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G1 C14 - 375.8364
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G1 C5 - 318.9792
SAMP 10260486010 - BAL PASI-WI

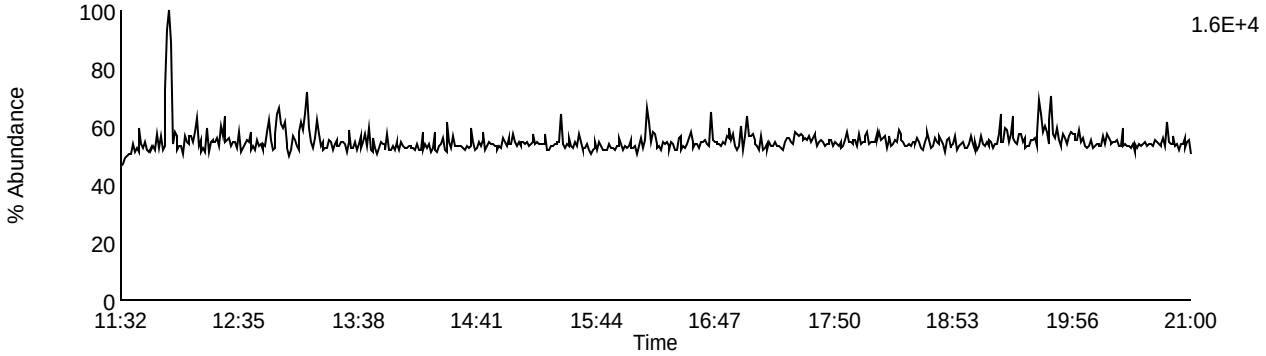


Homologue Group: Penta & Cleanup

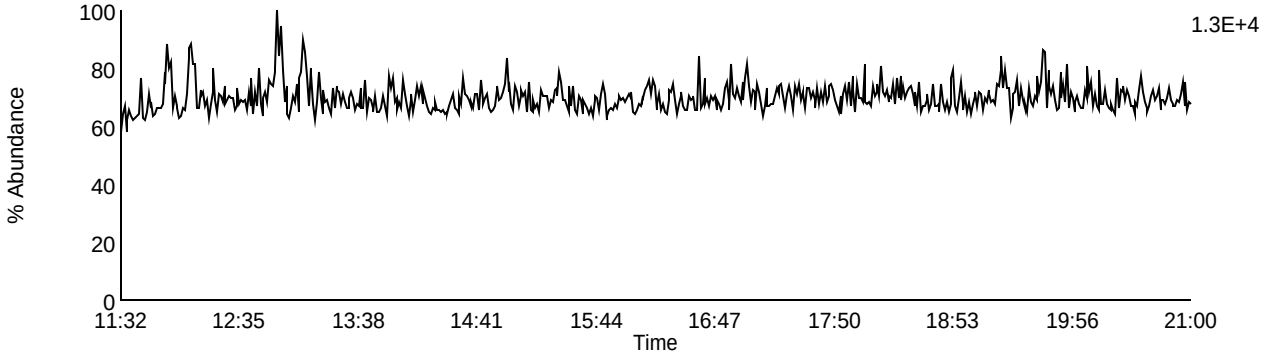
Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

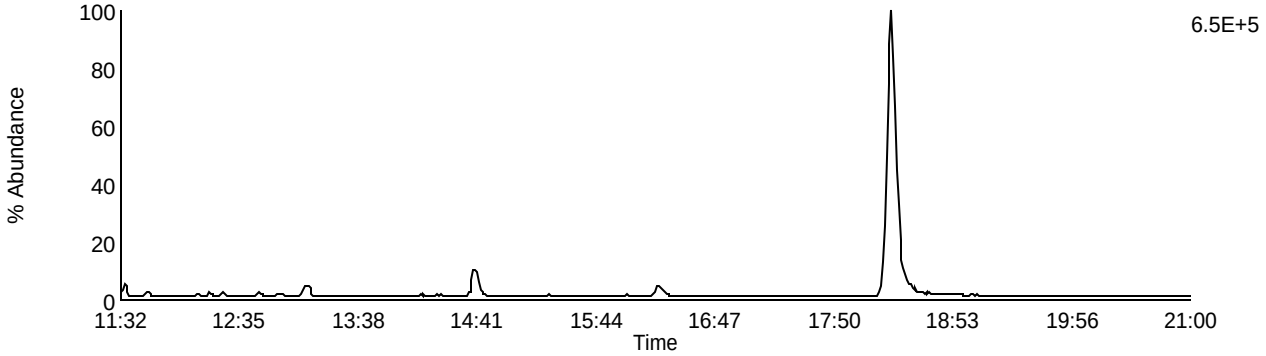
Data File: P140322B_05 G1 C12 - 339.8597
SAMP 10260486010 - BAL PASI-WI



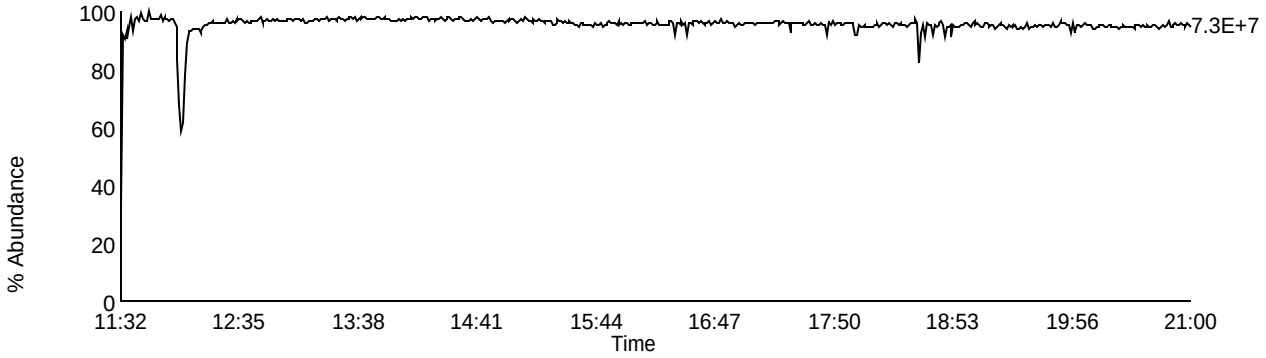
Data File: P140322B_05 G1 C13 - 341.8567
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G1 C9 - 327.8847
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G1 C5 - 318.9792
SAMP 10260486010 - BAL PASI-WI

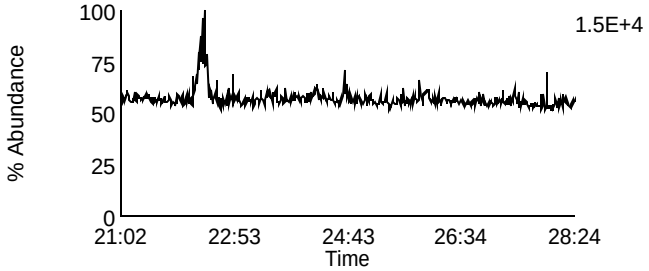


Homologue Group: Pentas

Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

Data File: P140322B_05 G2 C1 - 339.8597
SAMP 10260486010 - BAL PASI-WI



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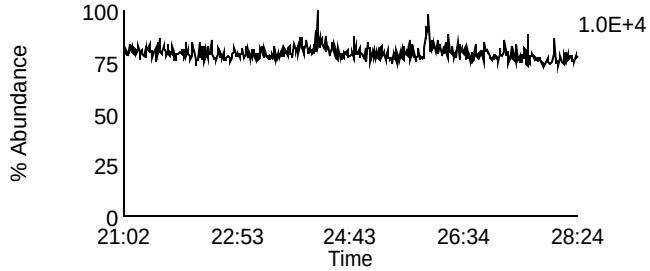
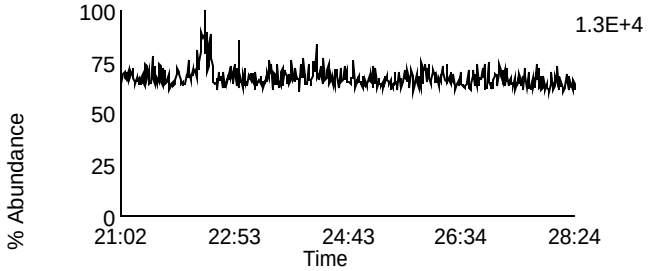
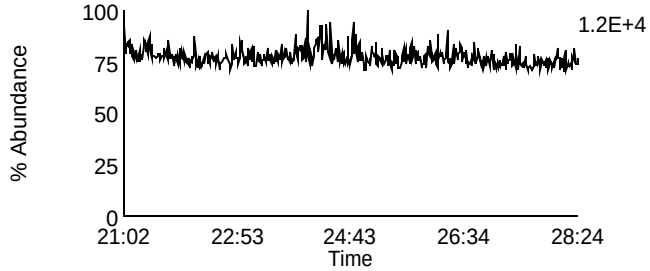
SAMP 10260486010 - BAL PASI-WI



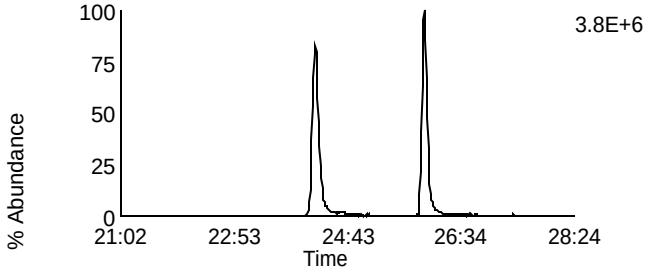
Data File: P140322B_05 G2 C2 - 341.8567
SAMP 10260486010 - BAL PASI-WI



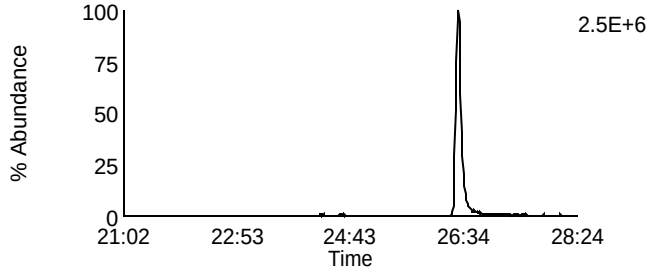
Data File: P140322B_05 G2 C8 - 355.8546
SAMP 10260486010 - BAL PASI-WI



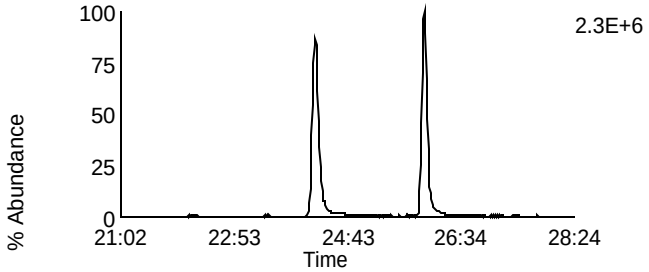
Data File: P140322B_05 G2 C3 - 351.8999
SAMP 10260486010 - BAL PASI-WI



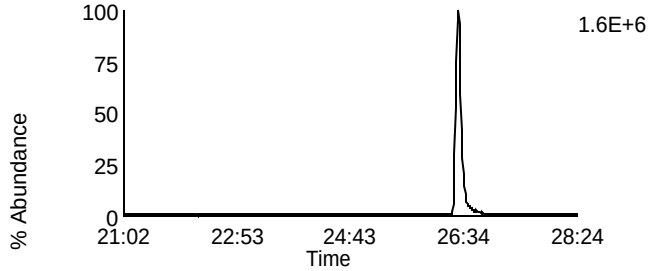
Data File: P140322B_05 G2 C10 - 367.8948
SAMP 10260486010 - BAL PASI-WI



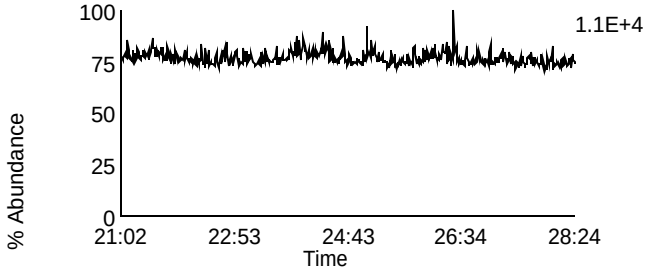
Data File: P140322B_05 G2 C5 - 353.8969
SAMP 10260486010 - BAL PASI-WI



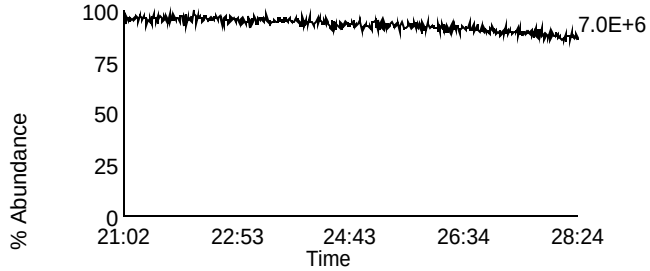
Data File: P140322B_05 G2 C11 - 369.8918
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G2 C12 - 409.7974
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G2 C6 - 354.9792
SAMP 10260486010 - BAL PASI-WI

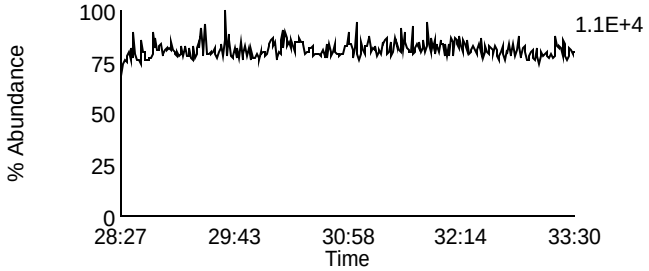


Homologue Group: Hexas

Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

Data File: P140322B_05 G3 C1 - 373.8207
SAMP 10260486010 - BAL PASI-WI



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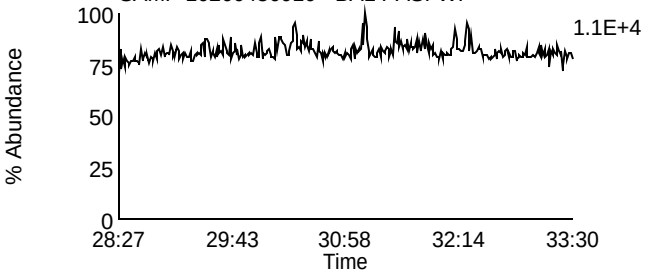
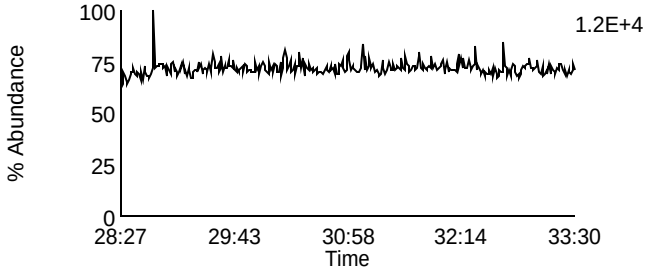
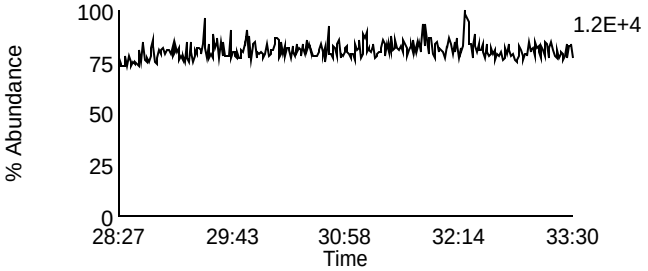
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G3 C2 - 375.8178
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G3 C8 - 391.8127
SAMP 10260486010 - BAL PASI-WI



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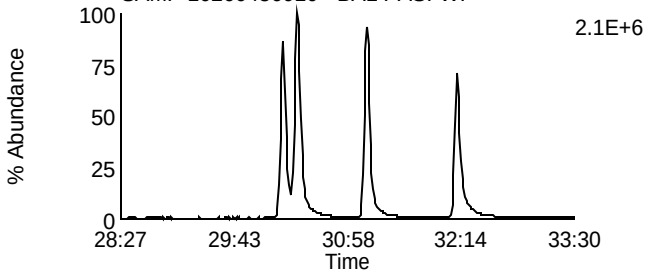
SAMP 10260486010 - BAL PASI-WI



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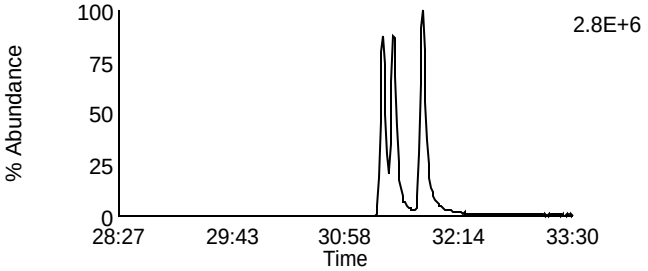
SAMP 10260486010 - BAL PASI-WI



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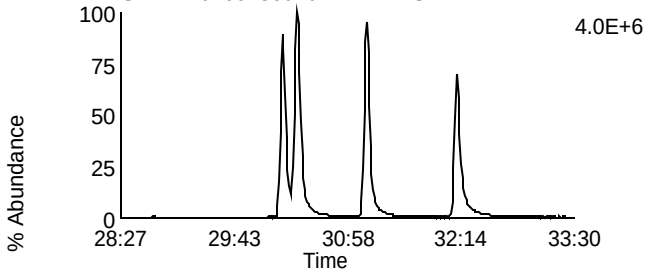
SAMP 10260486010 - BAL PASI-WI



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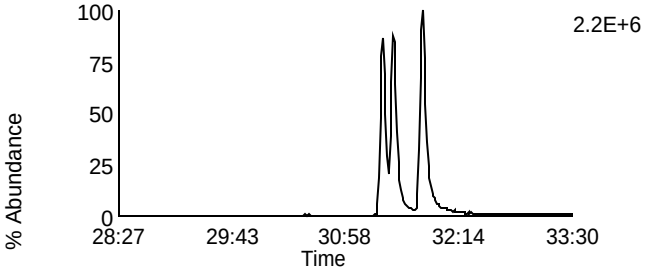
SAMP 10260486010 - BAL PASI-WI



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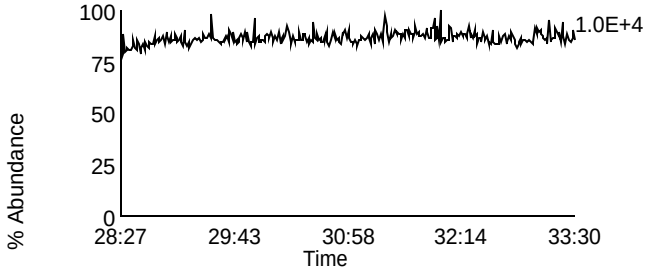
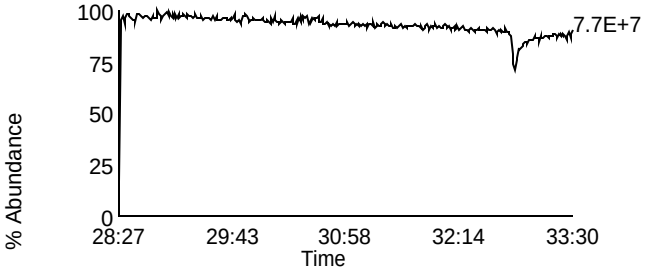
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G3 C3 - 380.976
SAMP 10260486010 - BAL PASI-WI

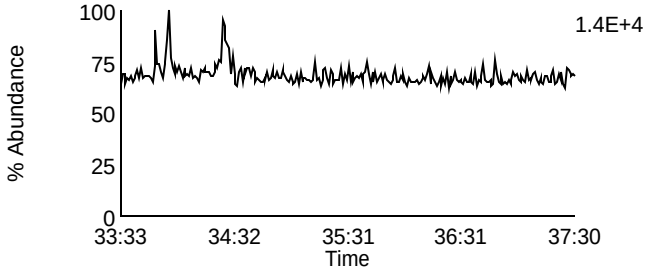


Homologue Group: Heptas

Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

Data File: P140322B_05 G4 C3 - 407.7818
SAMP 10260486010 - BAL PASI-WI



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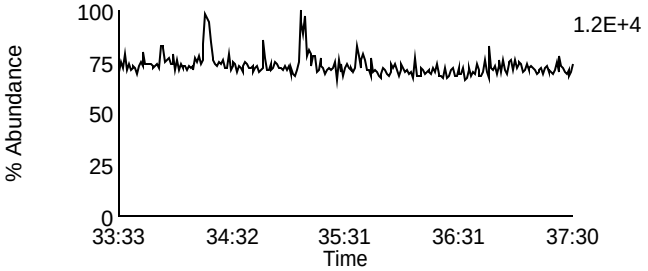
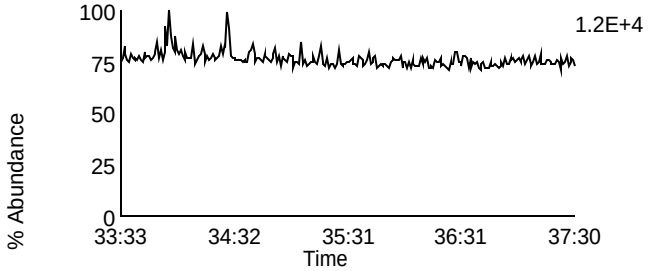
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G4 C4 - 409.7788
SAMP 10260486010 - BAL PASI-WI



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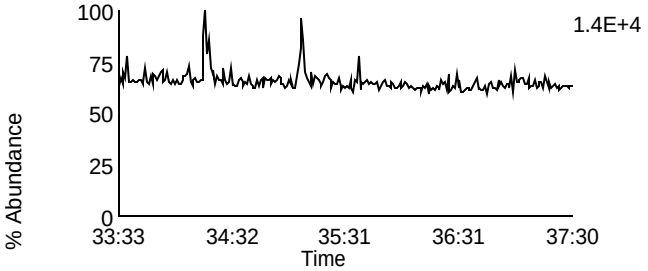
SAMP 10260486010 - BAL PASI-WI



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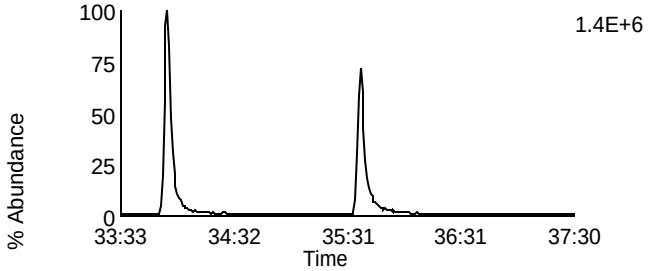
SAMP 10260486010 - BAL PASI-WI



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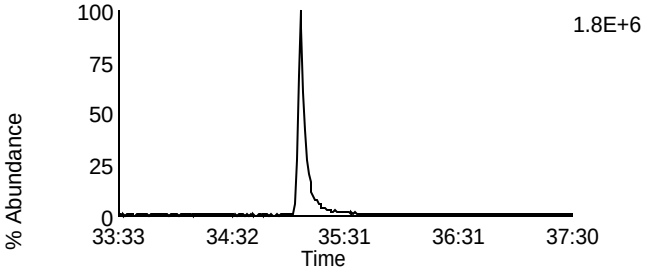
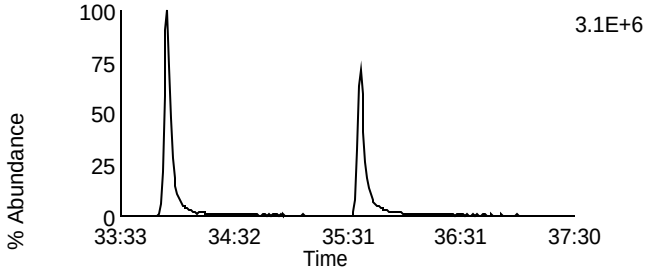
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G4 C7 - 419.822
SAMP 10260486010 - BAL PASI-WI



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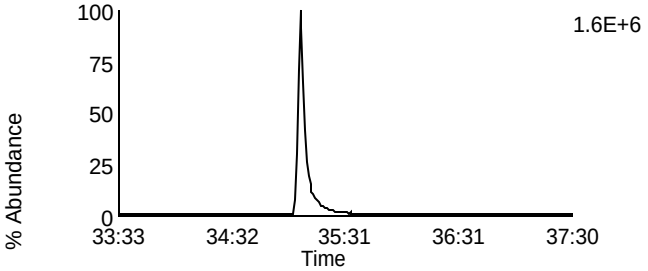
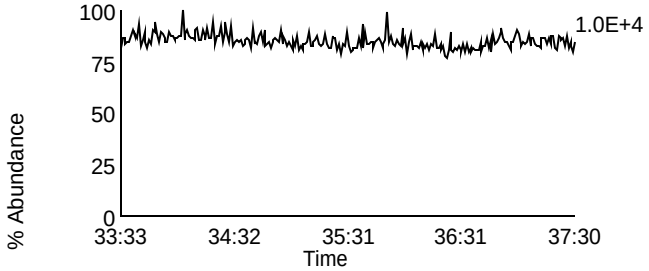
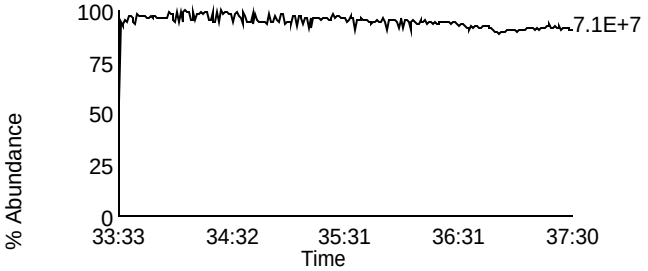
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G4 C13 - 479.7165
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G4 C1 - 380.976
SAMP 10260486010 - BAL PASI-WI

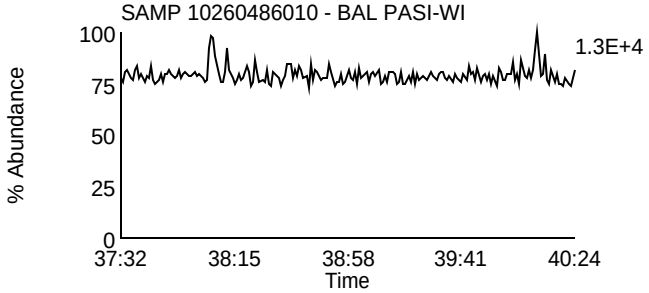


Homologue Group: Octas

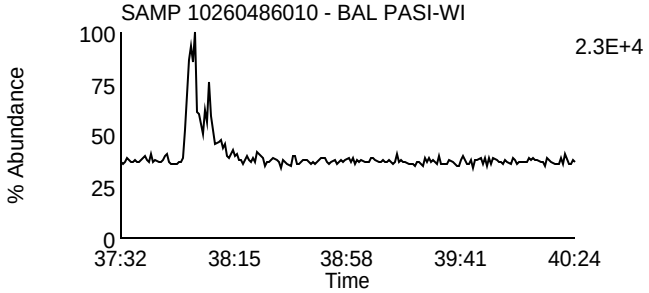
Data File Name: P140322B_05
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010 - BAL PASI-WI

Lab Sample ID: 10260486010
Client Sample ID: MAK121L
Instrument: 10MSHR09 (P)

Data File: P140322B_05 G5 C4 - 441.7428
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G5 C8 - 457.7377
SAMP 10260486010 - BAL PASI-WI



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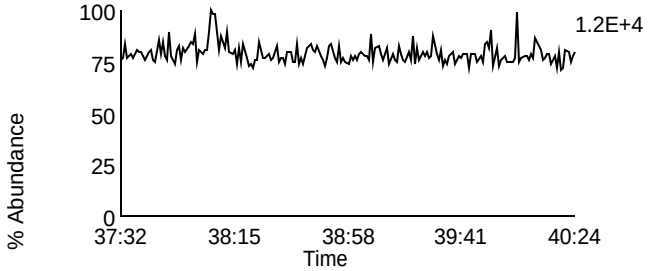
SAMP 10260486010 - BAL PASI-WI



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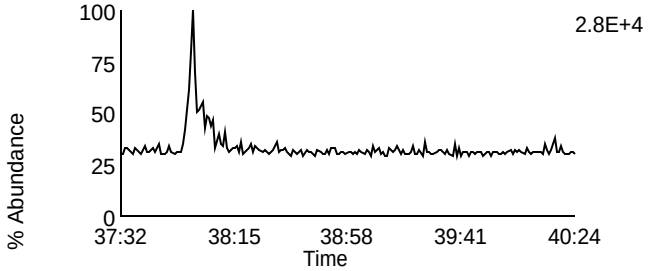
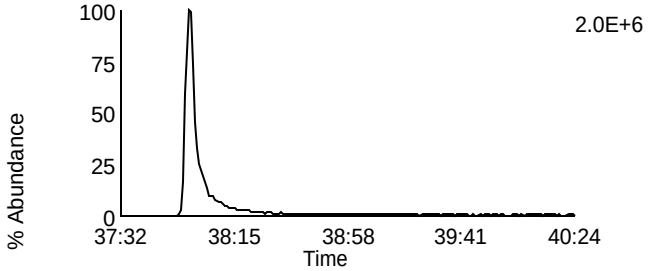
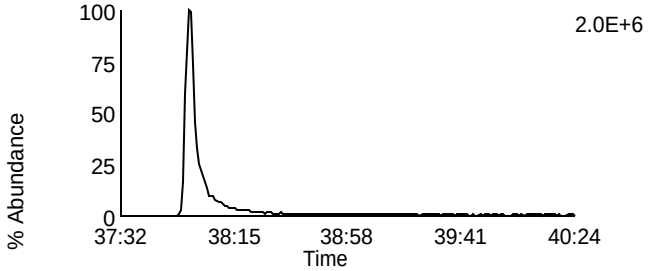
SAMP 10260486010 - BAL PASI-WI



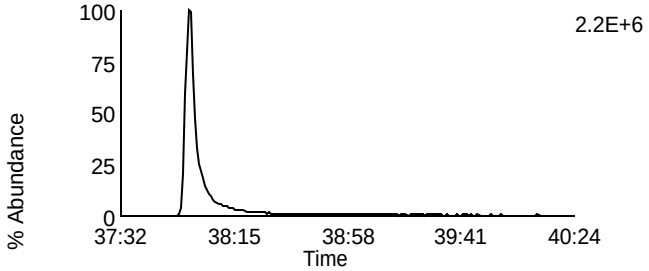
Data File: P140322B_05 G5 C11 - 469.7779
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G5 C11 - 469.7779
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G5 C12 - 471.7749
SAMP 10260486010 - BAL PASI-WI



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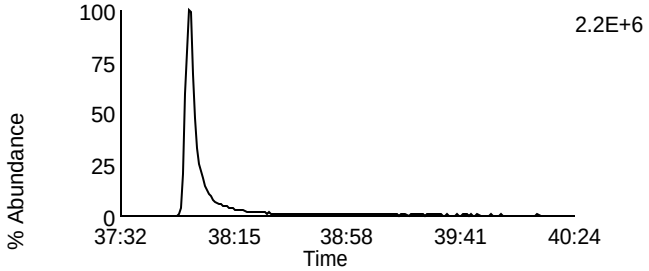
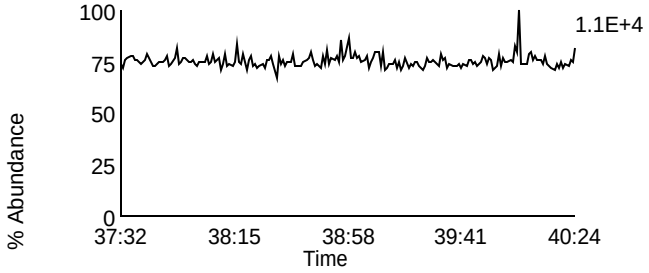
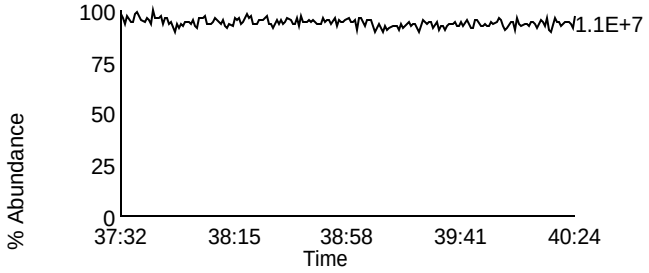
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G5 C13 - 513.6775
SAMP 10260486010 - BAL PASI-WI



Data File: P140322B_05 G5 C2 - 430.9728
SAMP 10260486010 - BAL PASI-WI

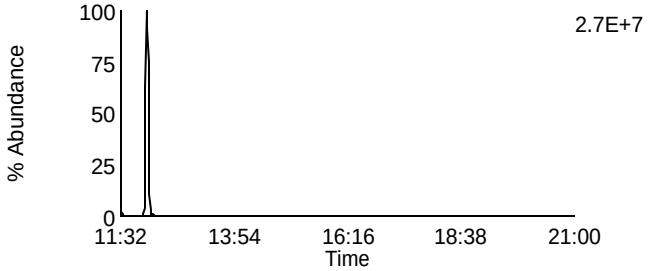


Homologue Group: Tetras

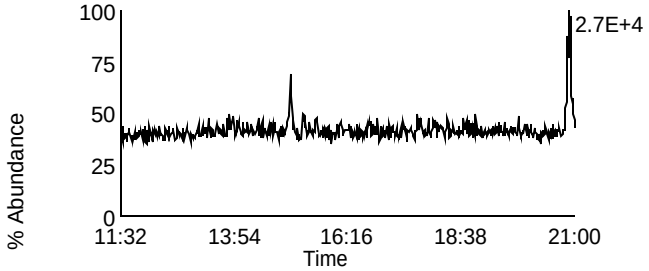
Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

Data File: P140322B_06 G1 C1 - 303.9016
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C7 - 319.8965
SAMP 10260486011 - BAL PASI-WI



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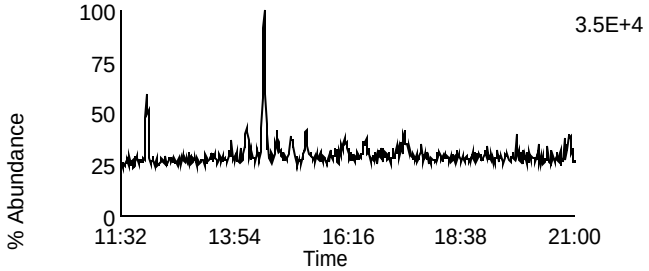
SAMP 10260486011 - BAL PASI-WI



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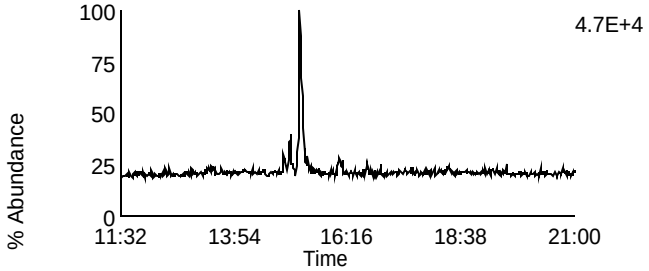
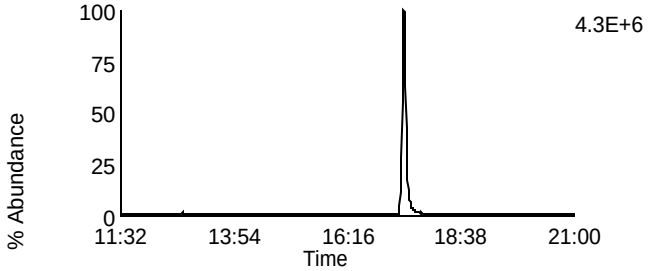
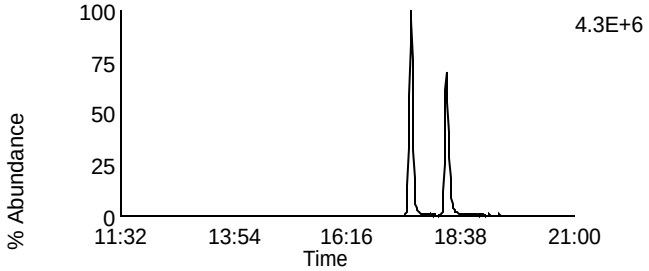
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C3 - 315.9418
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C10 - 331.9367
SAMP 10260486011 - BAL PASI-WI



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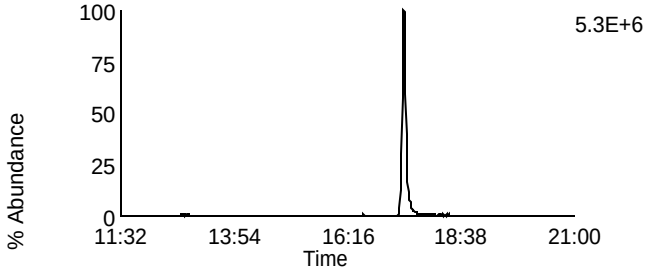
SAMP 10260486011 - BAL PASI-WI



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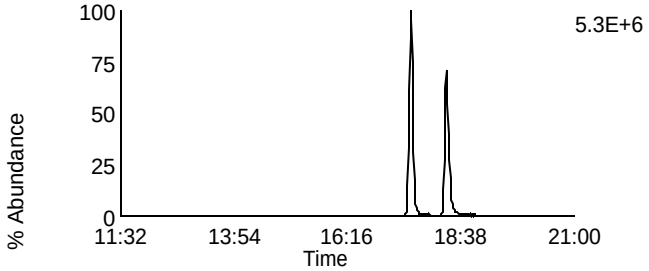
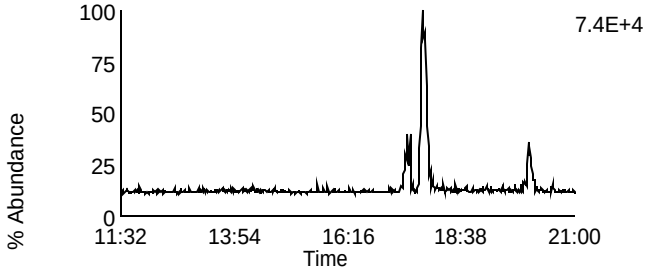
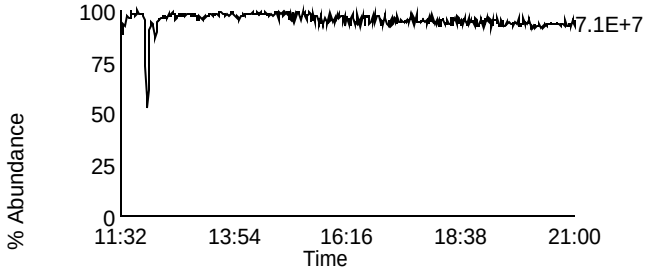
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C14 - 375.8364
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C5 - 318.9792
SAMP 10260486011 - BAL PASI-WI

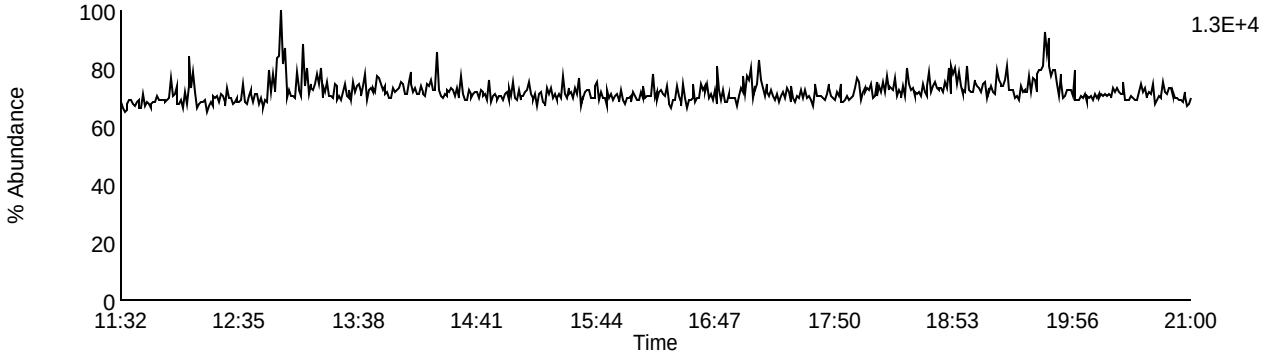


Homologue Group: Penta & Cleanup

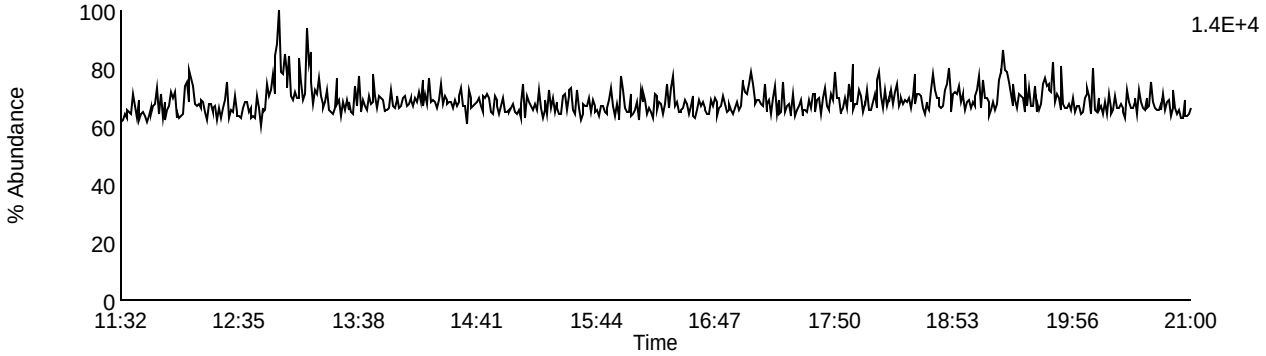
Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

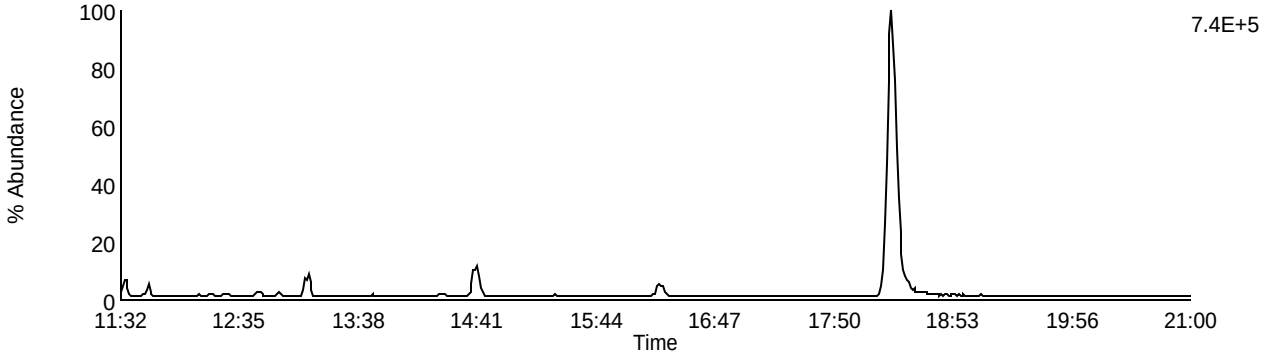
Data File: P140322B_06 G1 C12 - 339.8597
SAMP 10260486011 - BAL PASI-WI



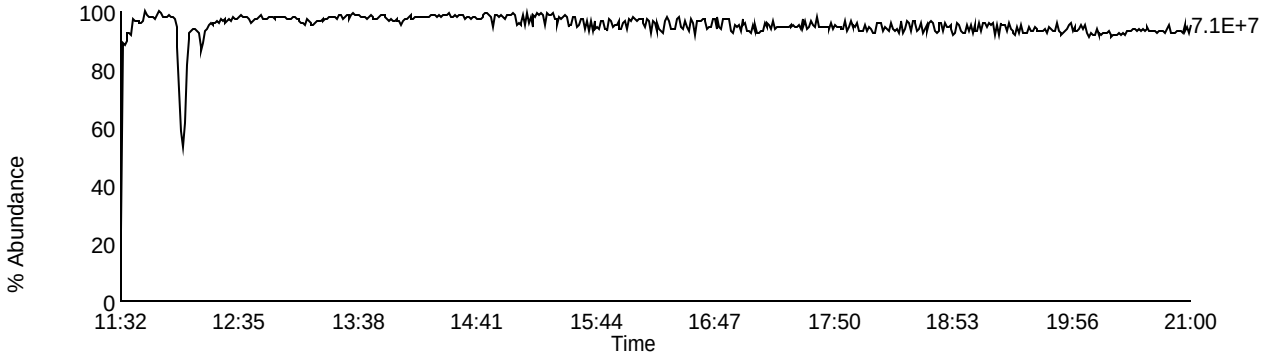
Data File: P140322B_06 G1 C13 - 341.8567
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C9 - 327.8847
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G1 C5 - 318.9792
SAMP 10260486011 - BAL PASI-WI

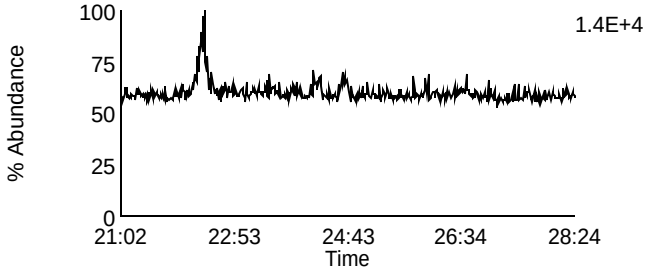


Homologue Group: Pentas

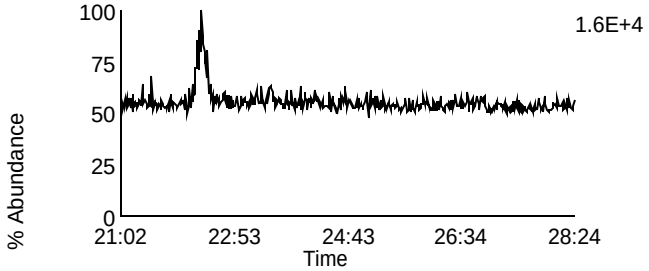
Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

Data File: P140322B_06 G2 C1 - 339.8597
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G2 C2 - 341.8567
SAMP 10260486011 - BAL PASI-WI



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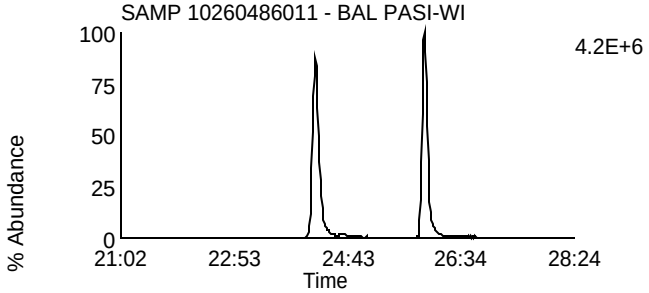
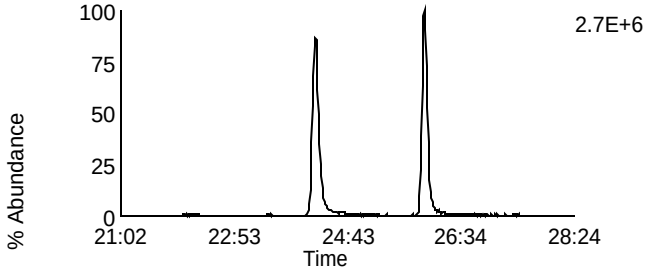
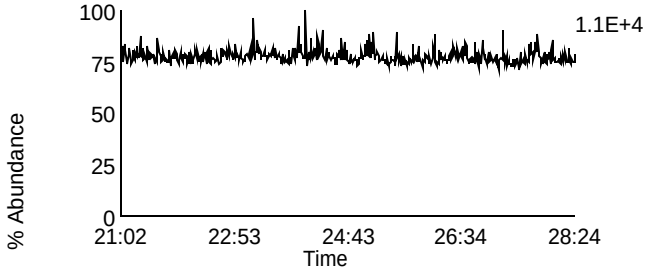
SAMP 10260486011 - BAL PASI-WI



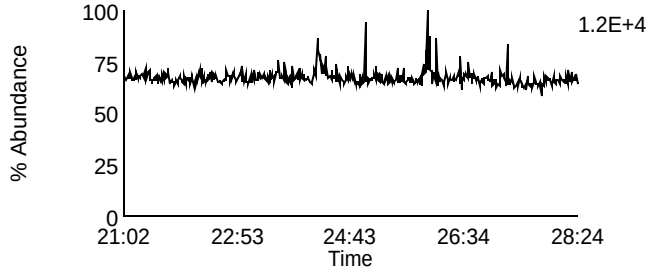
Data File: P140322B_06 G2 C5 - 353.8969
SAMP 10260486011 - BAL PASI-WI



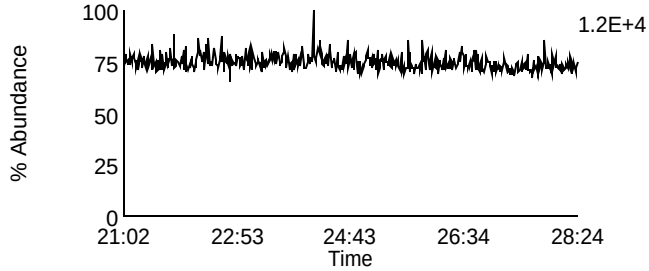
Data File: P140322B_06 G2 C12 - 409.7974
SAMP 10260486011 - BAL PASI-WI



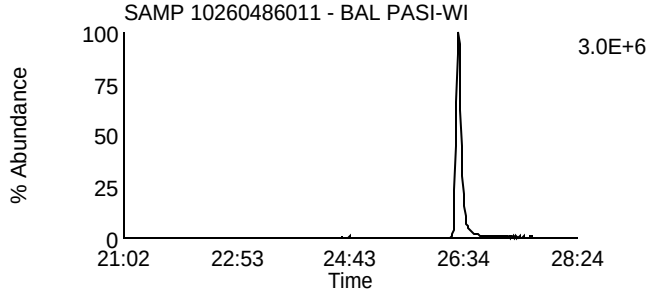
Data File: P140322B_06 G2 C4 - 353.8576
SAMP 10260486011 - BAL PASI-WI



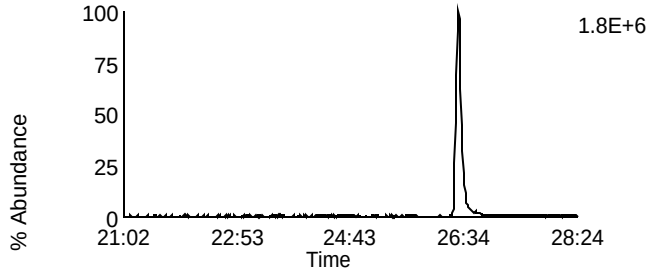
Data File: P140322B_06 G2 C8 - 355.8546
SAMP 10260486011 - BAL PASI-WI



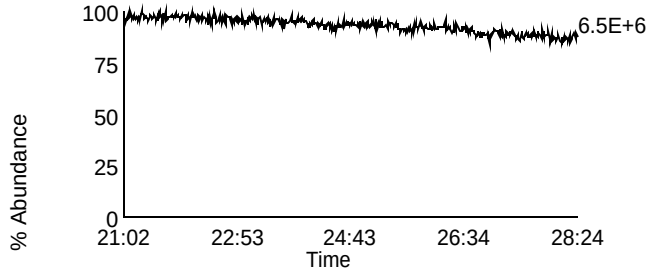
Data File: P140322B_06 G2 C10 - 367.8948
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G2 C11 - 369.8918
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G2 C6 - 354.9792
SAMP 10260486011 - BAL PASI-WI

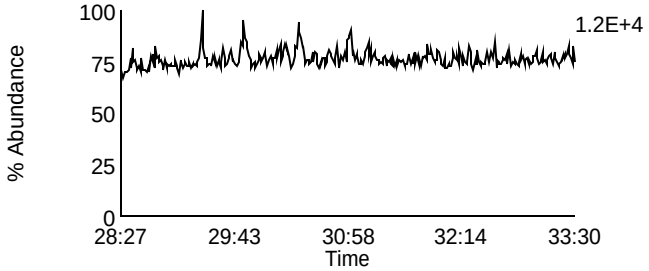


Homologue Group: Hexas

Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

Data File: P140322B_06 G3 C1 - 373.8207
SAMP 10260486011 - BAL PASI-WI



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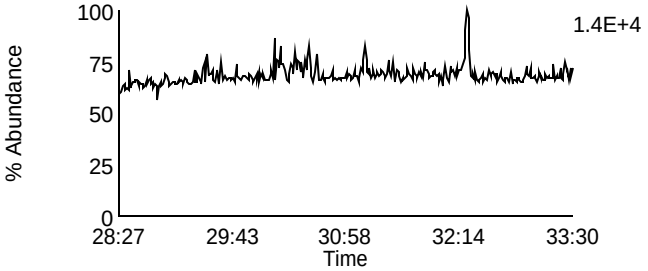
SAMP 10260486011 - BAL PASI-WI



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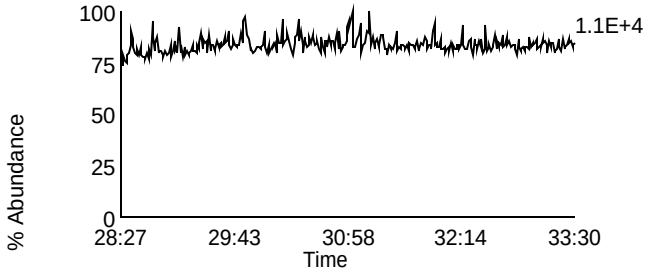
SAMP 10260486011 - BAL PASI-WI



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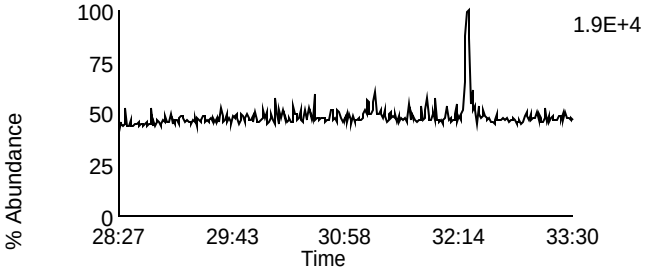
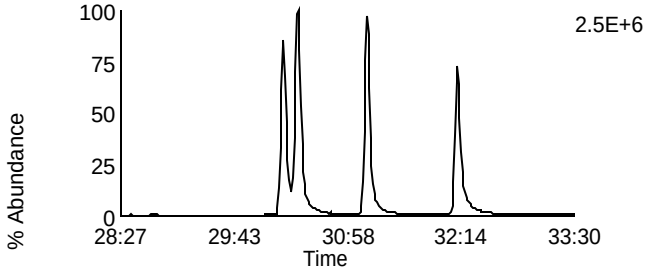
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G3 C5 - 383.8639
SAMP 10260486011 - BAL PASI-WI



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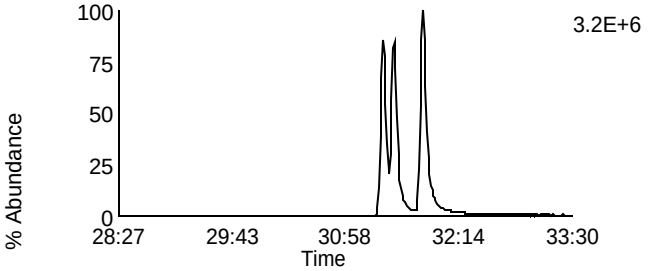
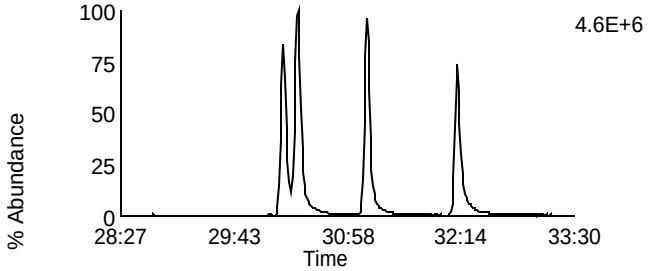
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G3 C6 - 385.861
SAMP 10260486011 - BAL PASI-WI



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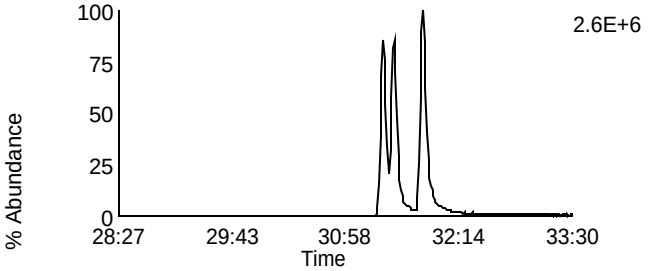
SAMP 10260486011 - BAL PASI-WI



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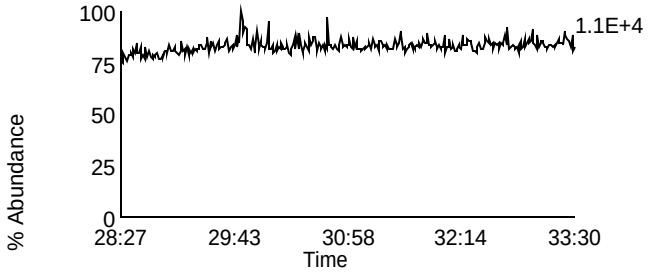
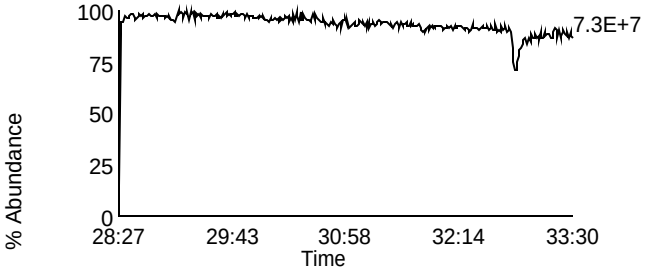
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G3 C3 - 380.976
SAMP 10260486011 - BAL PASI-WI

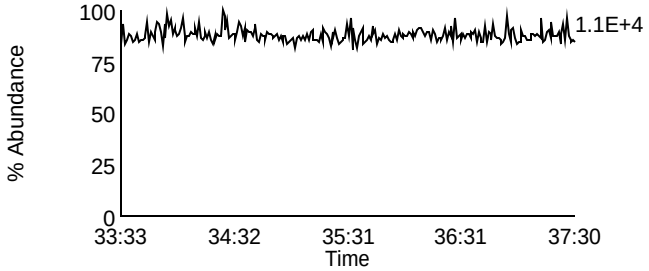


Homologue Group: Heptas

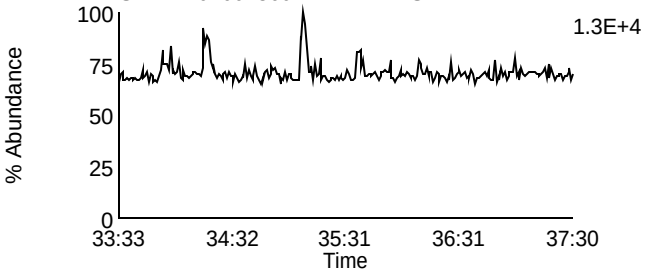
Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

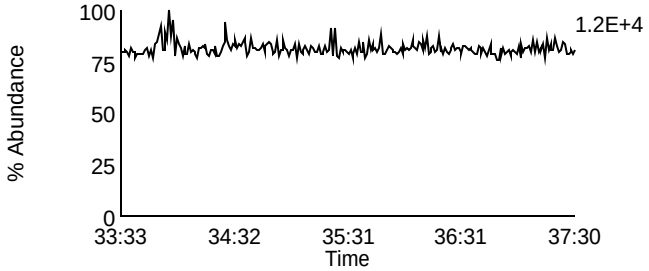
Data File: P140322B_06 G4 C3 - 407.7818
SAMP 10260486011 - BAL PASI-WI



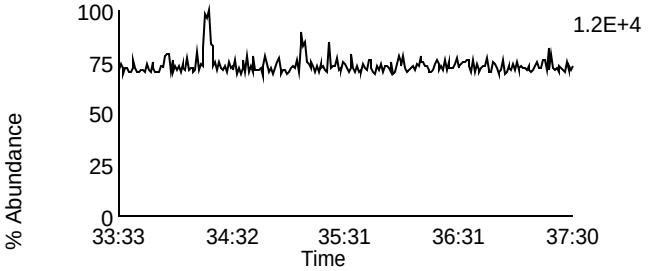
Data File: P140322B_06 G4 C8 - 423.7767
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G4 C4 - 409.7788
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G4 C9 - 425.7737
SAMP 10260486011 - BAL PASI-WI



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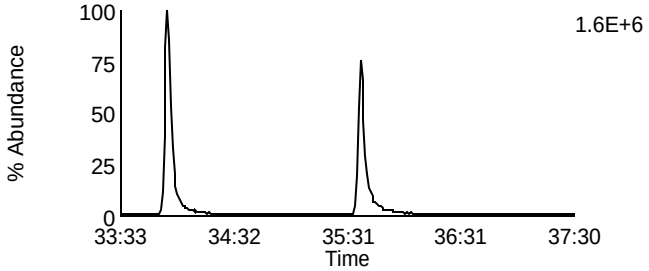
SAMP 10260486011 - BAL PASI-WI



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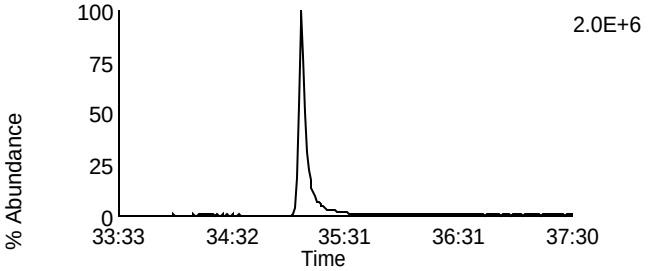
SAMP 10260486011 - BAL PASI-WI



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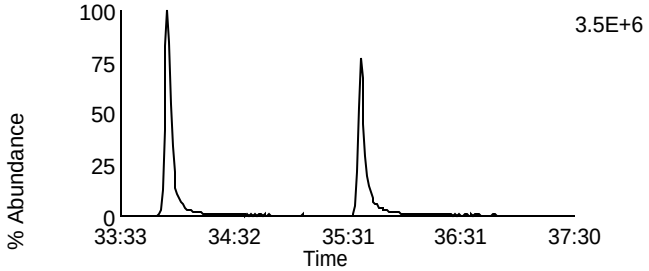
SAMP 10260486011 - BAL PASI-WI



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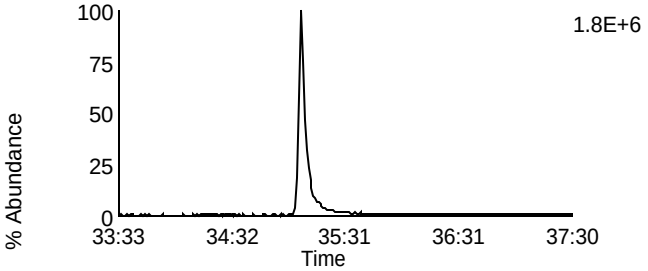

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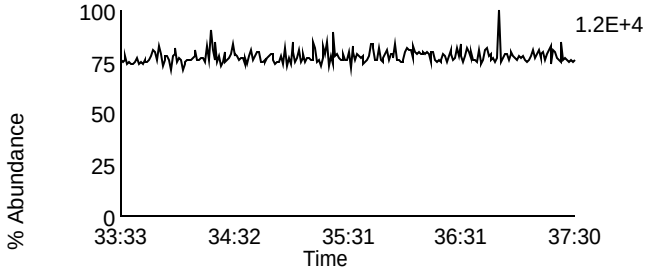
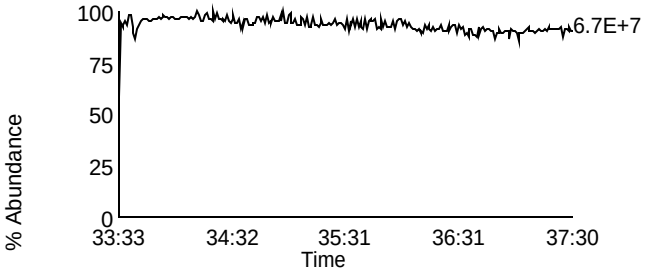
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G4 C1 - 380.976
SAMP 10260486011 - BAL PASI-WI

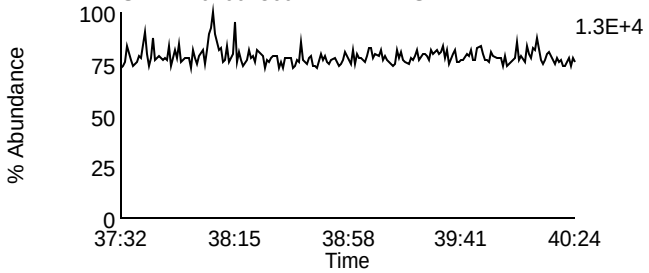


Homologue Group: Octas

Data File Name: P140322B_06
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486011 - BAL PASI-WI

Lab Sample ID: 10260486011
Client Sample ID: MAK122L
Instrument: 10MSHR09 (P)

Data File: P140322B_06 G5 C4 - 441.7428
SAMP 10260486011 - BAL PASI-WI



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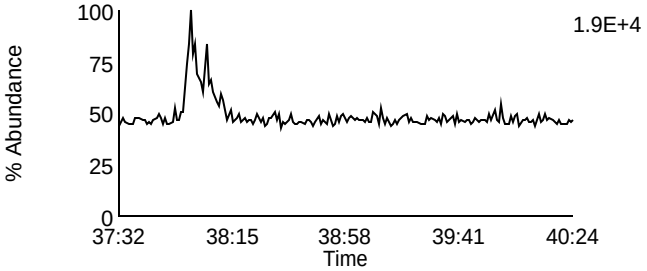
SAMP 10260486011 - BAL PASI-WI



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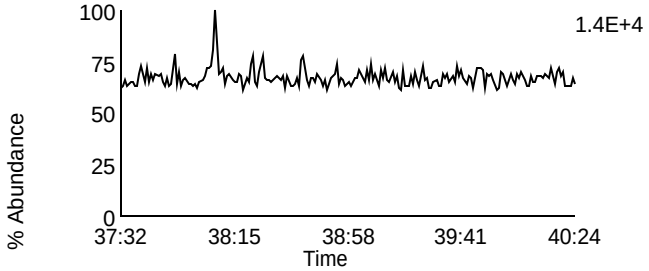
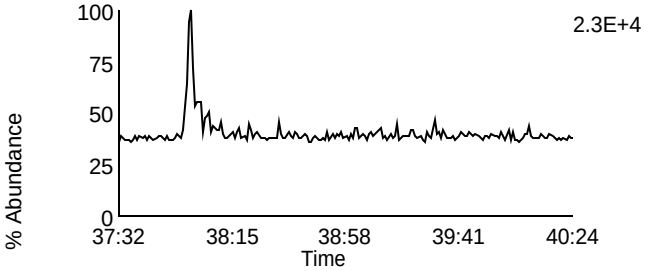
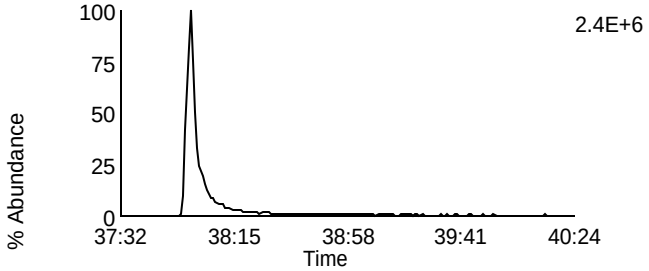
SAMP 10260486011 - BAL PASI-WI



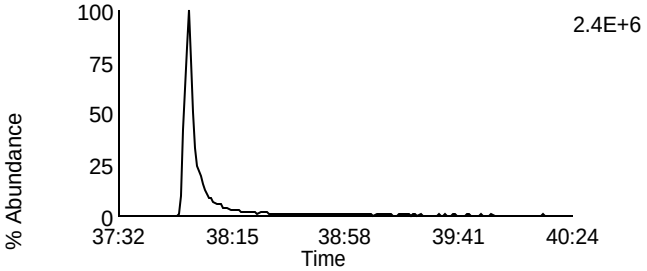
Data File: P140322B_06 G5 C9 - 459.7347
SAMP 10260486011 - BAL PASI-WI



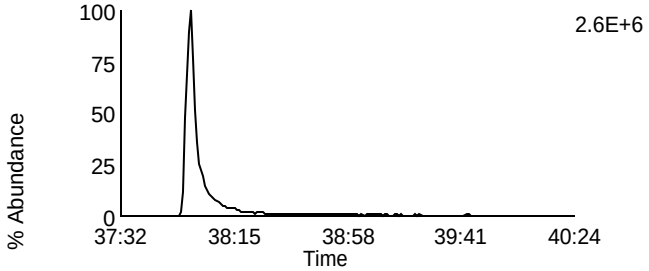
Data File: P140322B_06 G5 C11 - 469.7779
SAMP 10260486011 - BAL PASI-WI



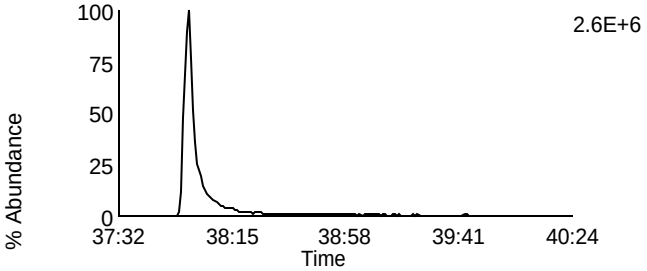
Data File: P140322B_06 G5 C11 - 469.7779
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G5 C12 - 471.7749
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G5 C12 - 471.7749
SAMP 10260486011 - BAL PASI-WI



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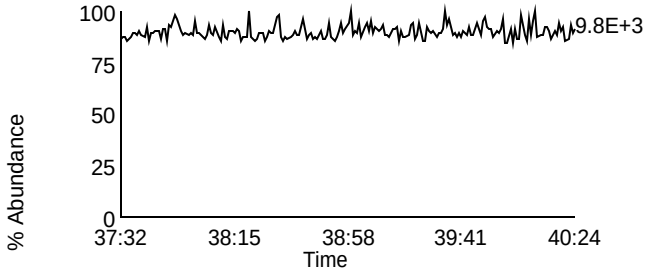
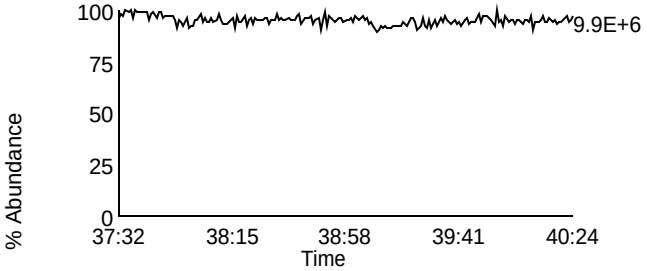
SAMP 10260486011 - BAL PASI-WI



Data File: P140322B_06 G5 C2 - 430.9728
SAMP 10260486011 - BAL PASI-WI

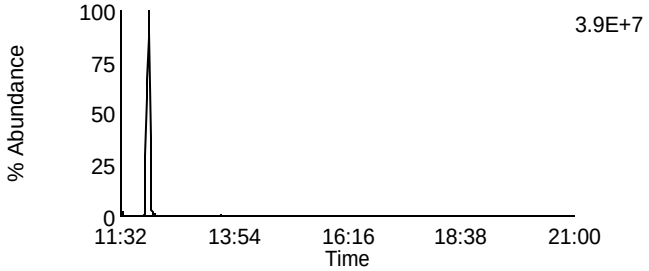


Homologue Group: Tetras

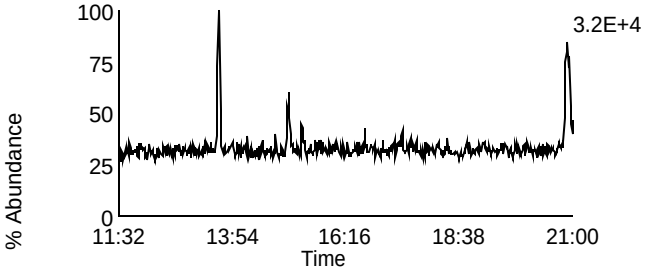
Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

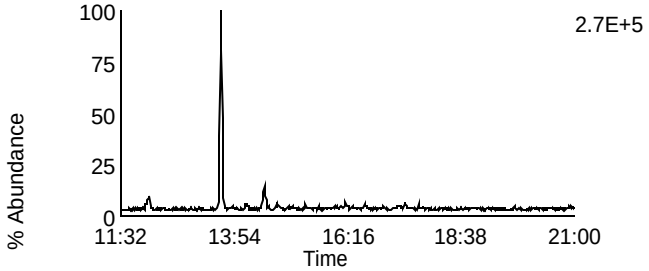
Data File: P140322B_07 G1 C1 - 303.9016
SAMP 10260486012 - BAL PASI-WI



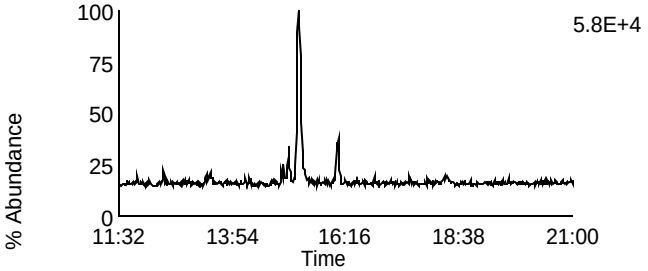
Data File: P140322B_07 G1 C7 - 319.8965
SAMP 10260486012 - BAL PASI-WI



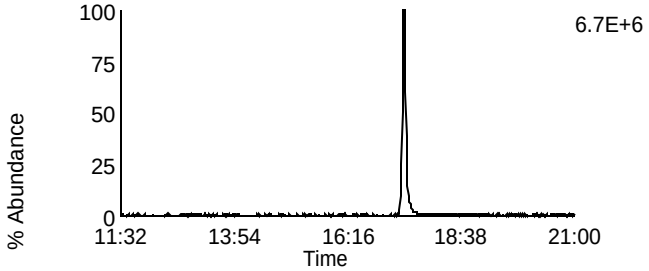
Data File: P140322B_07 G1 C2 - 305.8987
SAMP 10260486012 - BAL PASI-WI



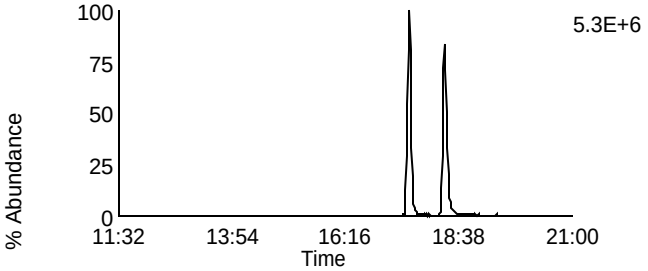
Data File: P140322B_07 G1 C8 - 321.8936
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C3 - 315.9418
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C10 - 331.9367
SAMP 10260486012 - BAL PASI-WI



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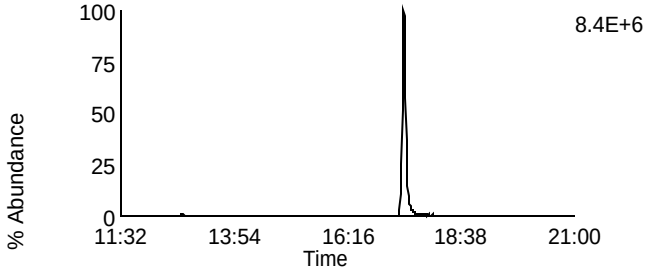
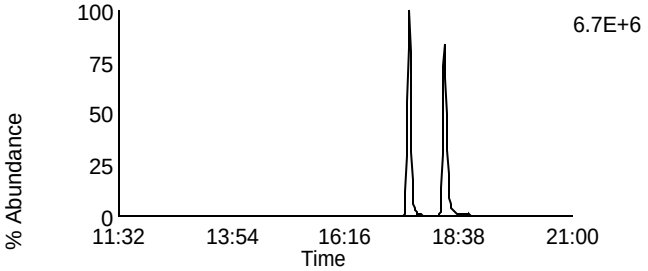
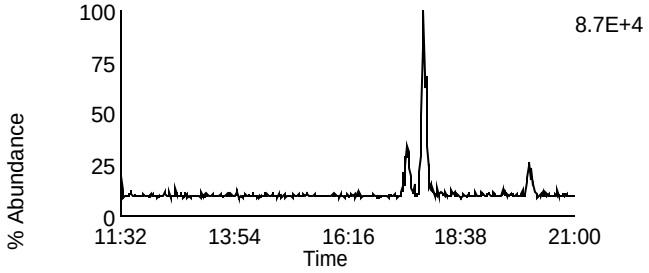
SAMP 10260486012 - BAL PASI-WI



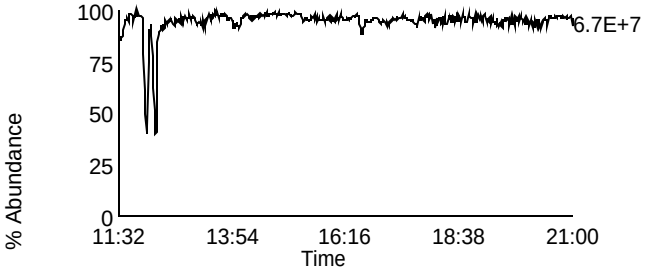
Data File: P140322B_07 G1 C11 - 333.9338
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C14 - 375.8364
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C5 - 318.9792
SAMP 10260486012 - BAL PASI-WI

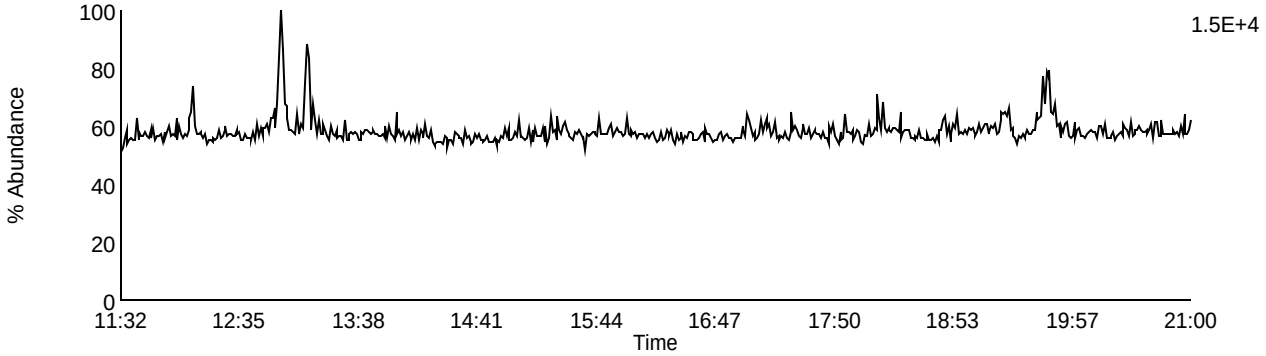


Homologue Group: Penta & Cleanup

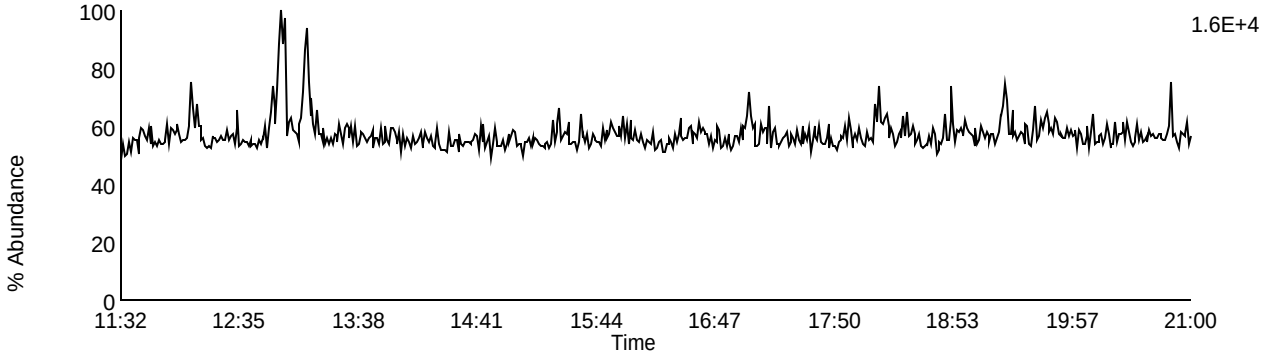
Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

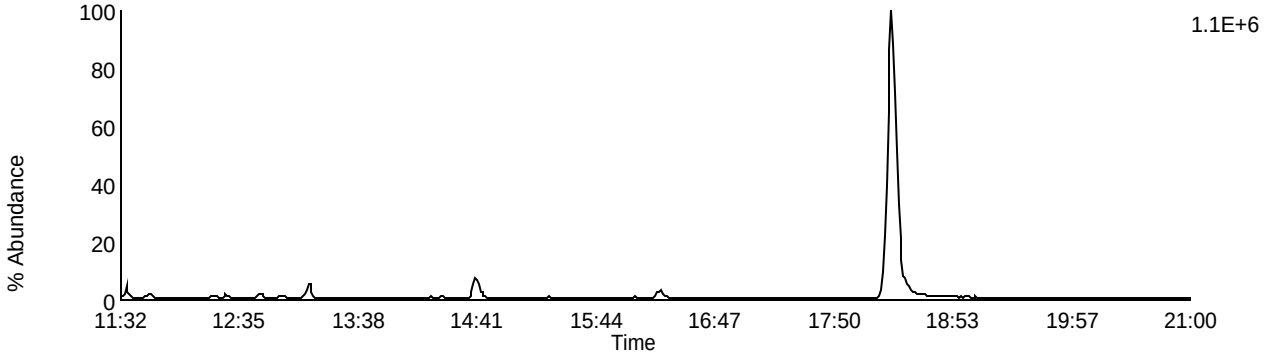
Data File: P140322B_07 G1 C12 - 339.8597
SAMP 10260486012 - BAL PASI-WI



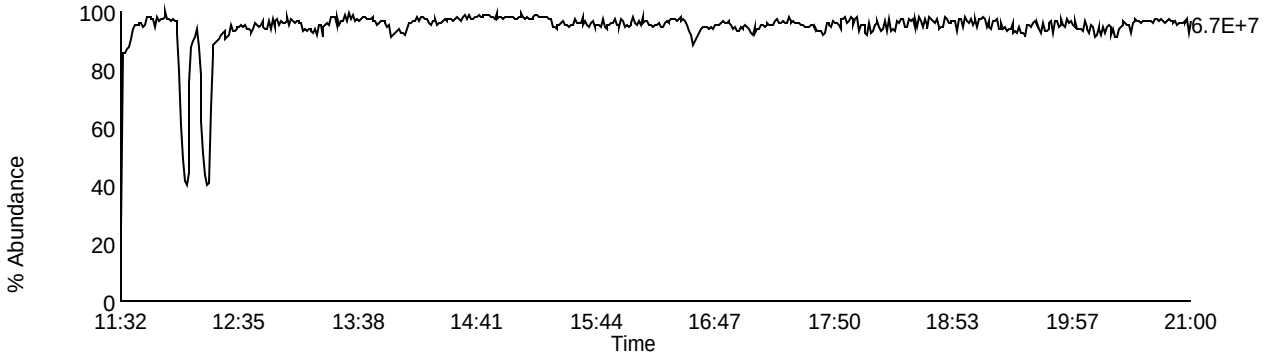
Data File: P140322B_07 G1 C13 - 341.8567
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C9 - 327.8847
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G1 C5 - 318.9792
SAMP 10260486012 - BAL PASI-WI

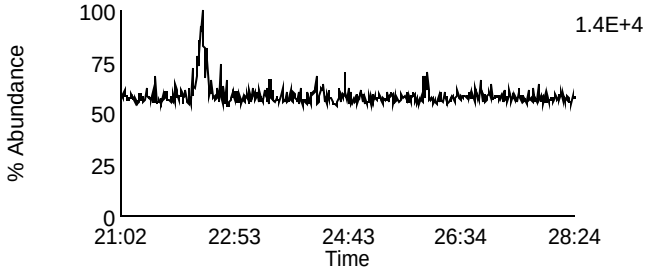


Homologue Group: Pentas

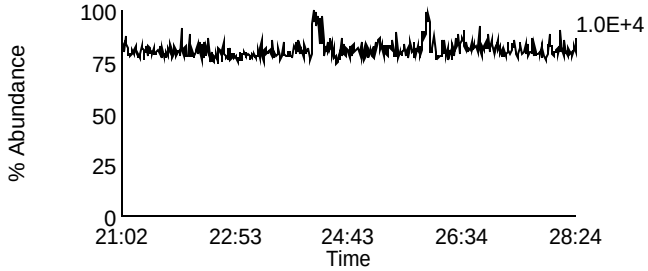
Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

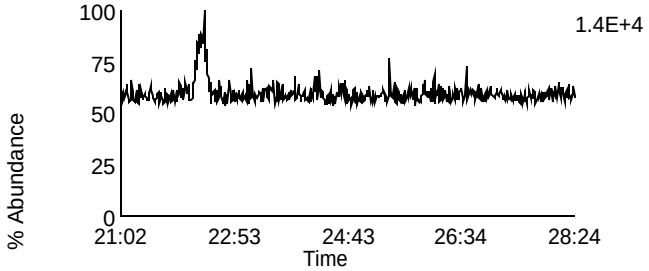
Data File: P140322B_07 G2 C1 - 339.8597
SAMP 10260486012 - BAL PASI-WI



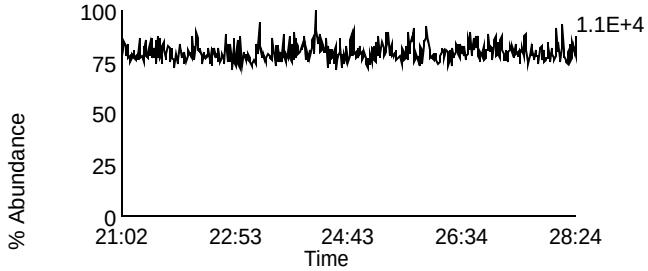
Data File: P140322B_07 G2 C4 - 353.8576
SAMP 10260486012 - BAL PASI-WI



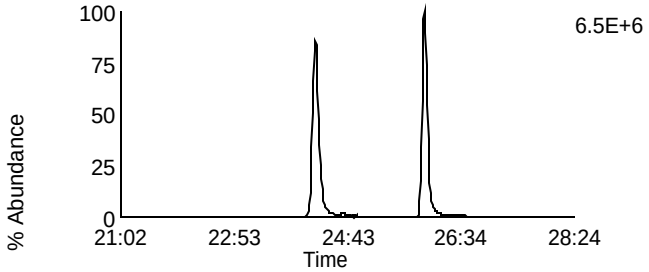
Data File: P140322B_07 G2 C2 - 341.8567
SAMP 10260486012 - BAL PASI-WI



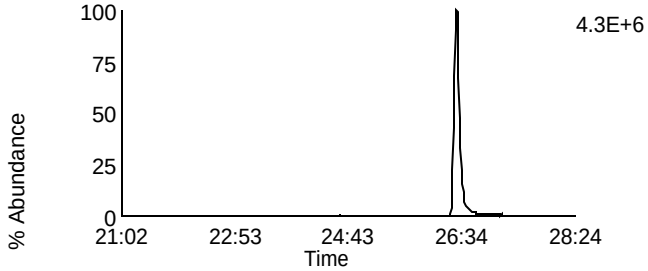
Data File: P140322B_07 G2 C8 - 355.8546
SAMP 10260486012 - BAL PASI-WI



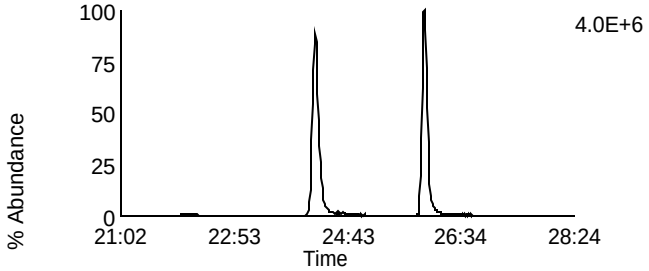
Data File: P140322B_07 G2 C3 - 351.8999
SAMP 10260486012 - BAL PASI-WI



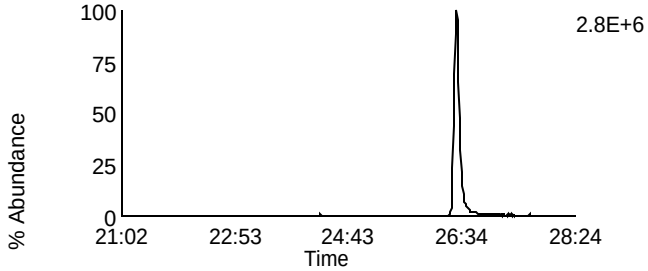
Data File: P140322B_07 G2 C10 - 367.8948
SAMP 10260486012 - BAL PASI-WI



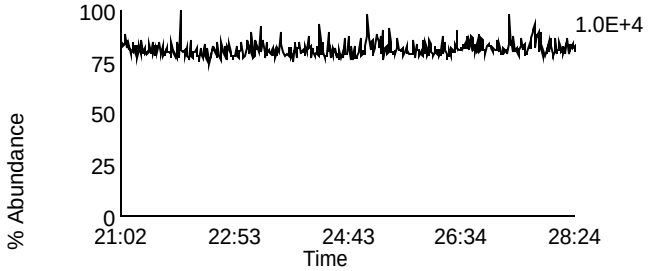
Data File: P140322B_07 G2 C5 - 353.8969
SAMP 10260486012 - BAL PASI-WI



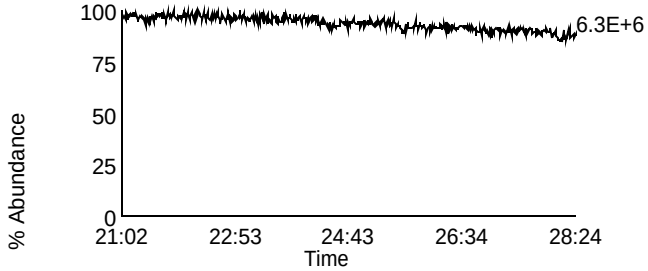
Data File: P140322B_07 G2 C11 - 369.8918
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G2 C12 - 409.7974
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G2 C6 - 354.9792
SAMP 10260486012 - BAL PASI-WI

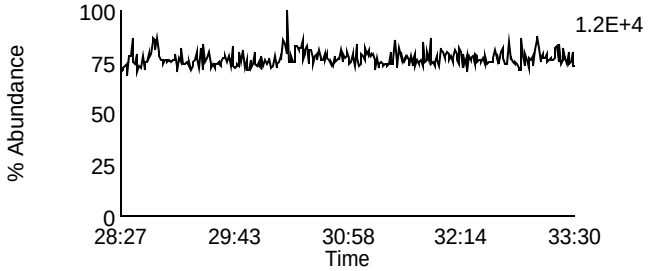


Homologue Group: Hexas

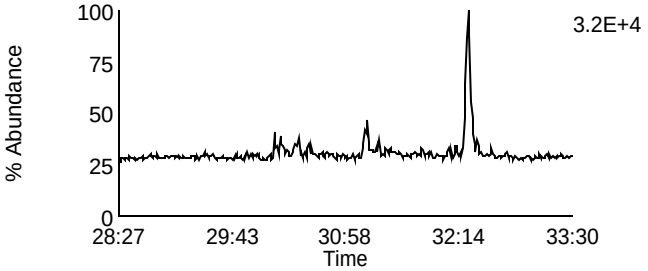
Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

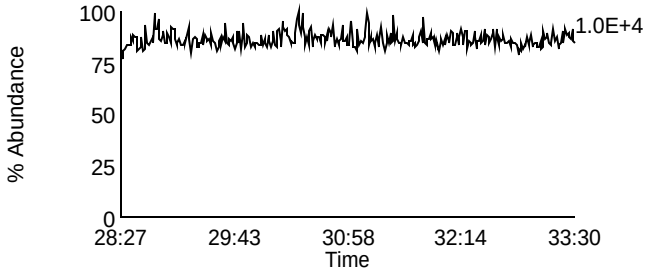
Data File: P140322B_07 G3 C1 - 373.8207
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G3 C7 - 389.8156
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G3 C2 - 375.8178
SAMP 10260486012 - BAL PASI-WI



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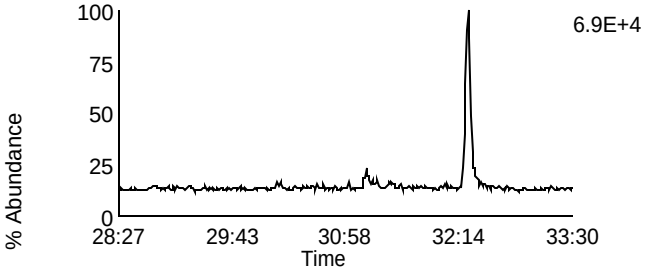
SAMP 10260486012 - BAL PASI-WI



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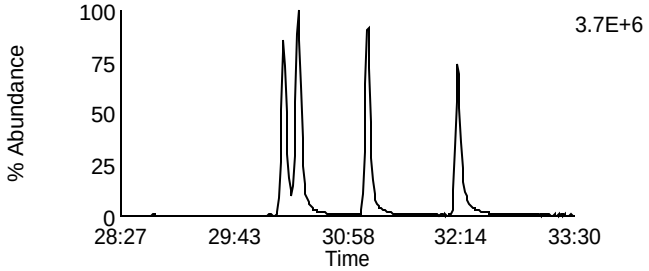
SAMP 10260486012 - BAL PASI-WI



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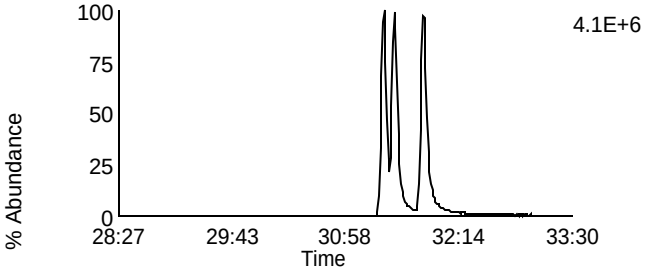
SAMP 10260486012 - BAL PASI-WI



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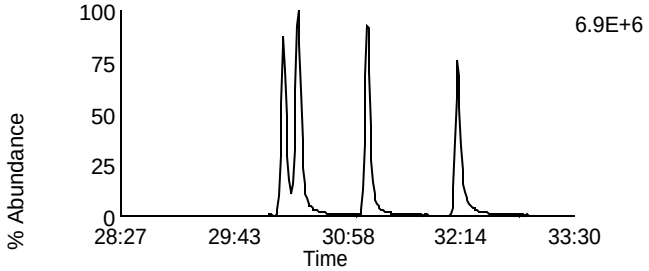

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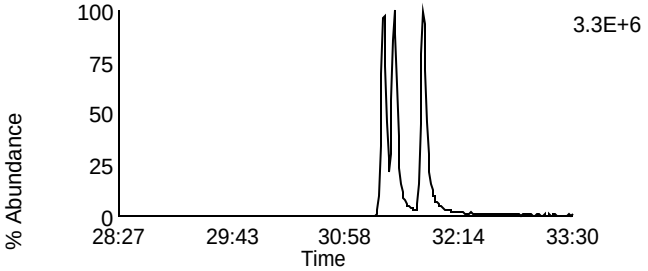
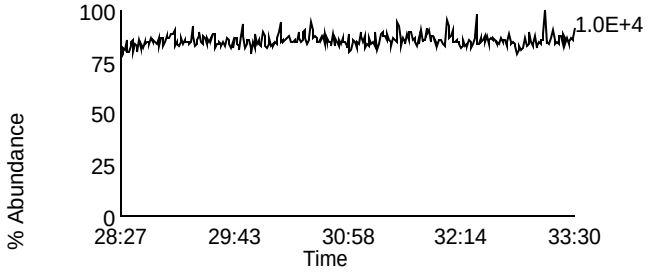
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G3 C11 - 445.7555
SAMP 10260486012 - BAL PASI-WI



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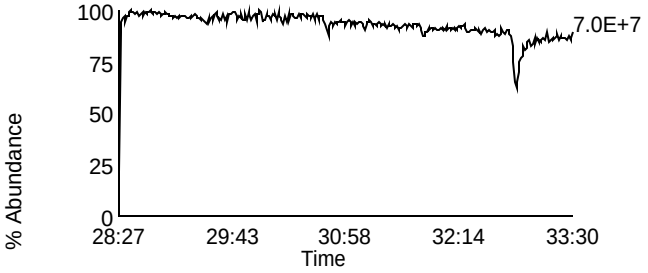
SAMP 10260486012 - BAL PASI-WI

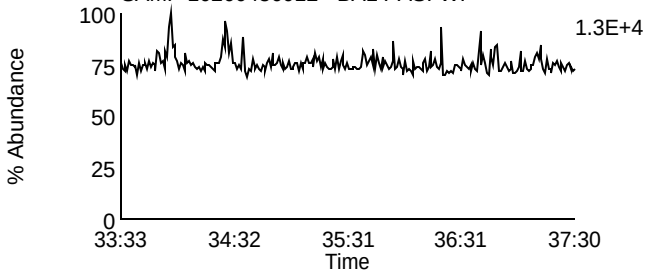


Homologue Group: Heptas

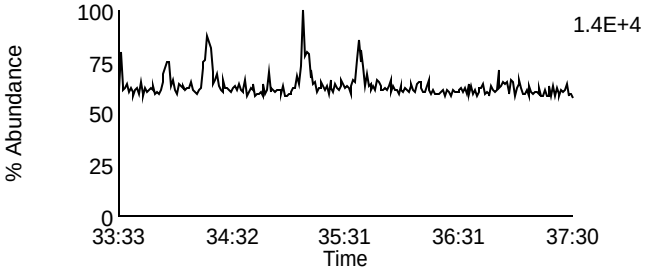
Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

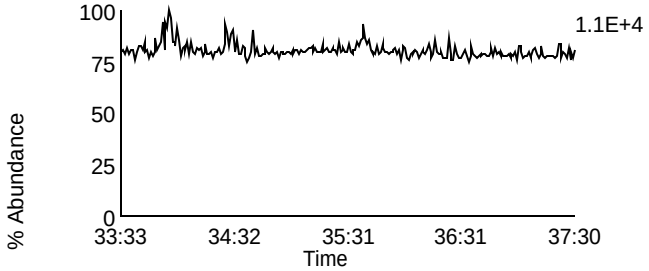
Data File: P140322B_07 G4 C3 - 407.7818
SAMP 10260486012 - BAL PASI-WI



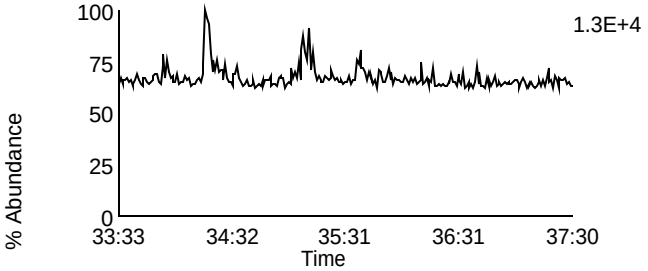
Data File: P140322B_07 G4 C8 - 423.7767
SAMP 10260486012 - BAL PASI-WI



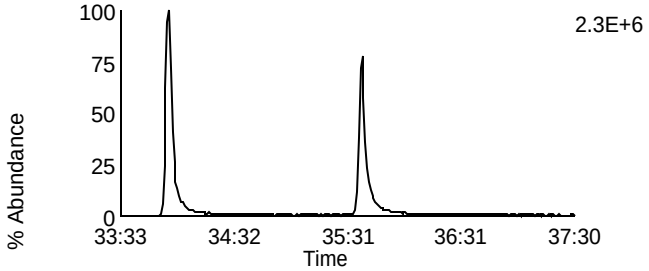
Data File: P140322B_07 G4 C4 - 409.7788
SAMP 10260486012 - BAL PASI-WI



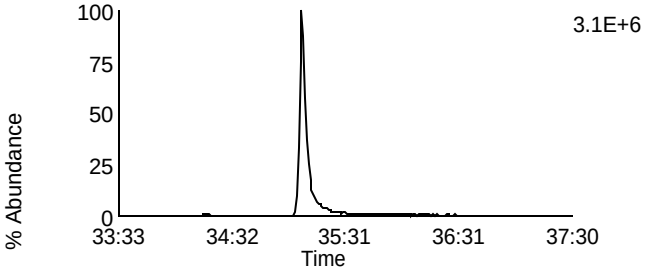
Data File: P140322B_07 G4 C9 - 425.7737
SAMP 10260486012 - BAL PASI-WI



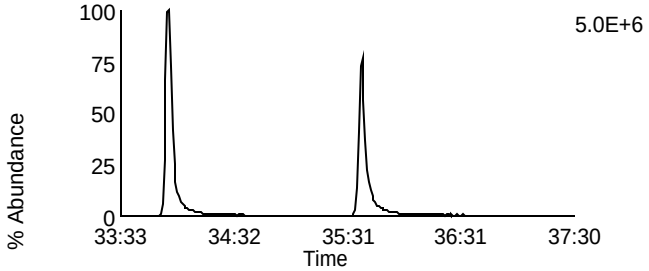
Data File: P140322B_07 G4 C6 - 417.825
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G4 C11 - 435.8169
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G4 C7 - 419.822
SAMP 10260486012 - BAL PASI-WI



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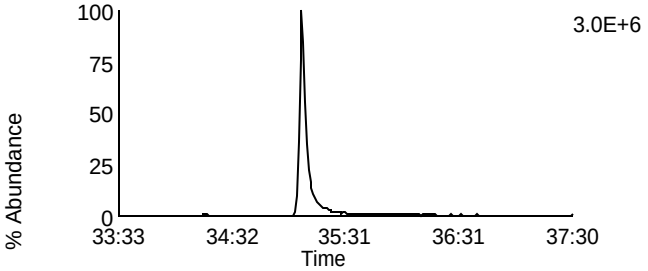
SAMP 10260486012 - BAL PASI-WI



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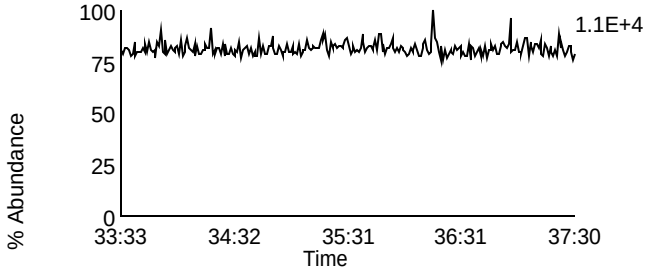
SAMP 10260486012 - BAL PASI-WI



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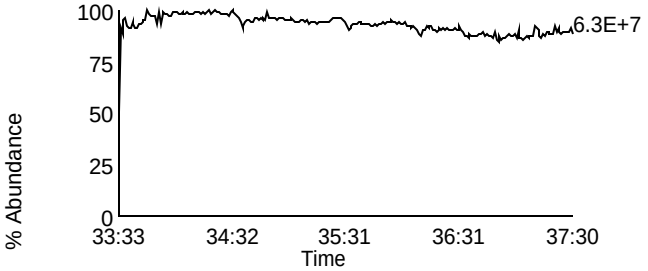
SAMP 10260486012 - BAL PASI-WI

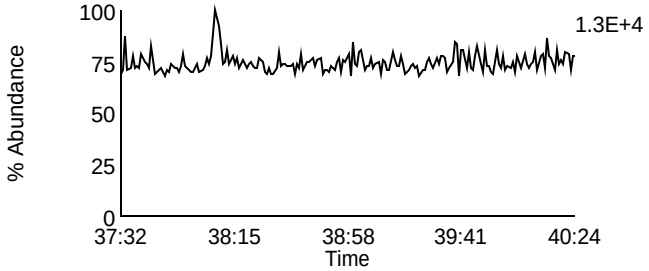


Homologue Group: Octas

Data File Name: P140322B_07
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012 - BAL PASI-WI

Lab Sample ID: 10260486012
Client Sample ID: MAK123L
Instrument: 10MSHR09 (P)

Data File: P140322B_07 G5 C4 - 441.7428
SAMP 10260486012 - BAL PASI-WI



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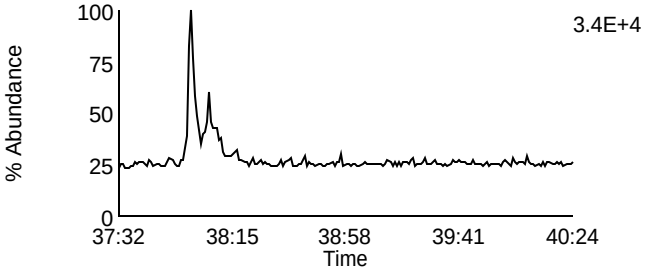
SAMP 10260486012 - BAL PASI-WI



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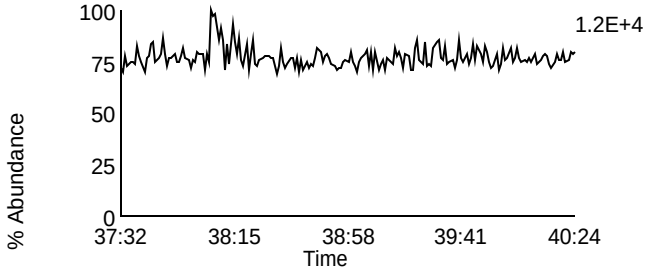
SAMP 10260486012 - BAL PASI-WI



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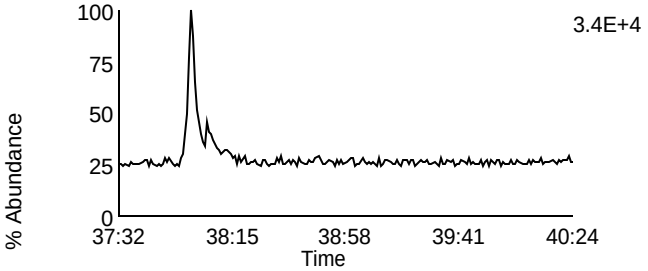
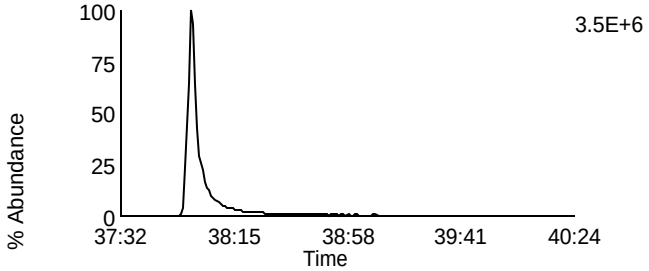
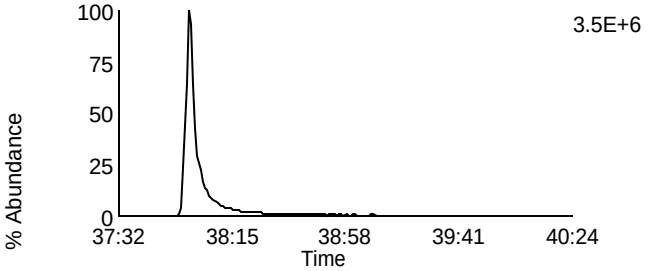
SAMP 10260486012 - BAL PASI-WI



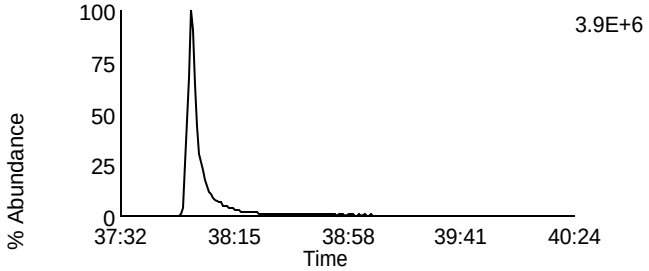
Data File: P140322B_07 G5 C11 - 469.7779
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G5 C11 - 469.7779
SAMP 10260486012 - BAL PASI-WI



Data File: P140322B_07 G5 C12 - 471.7749
SAMP 10260486012 - BAL PASI-WI



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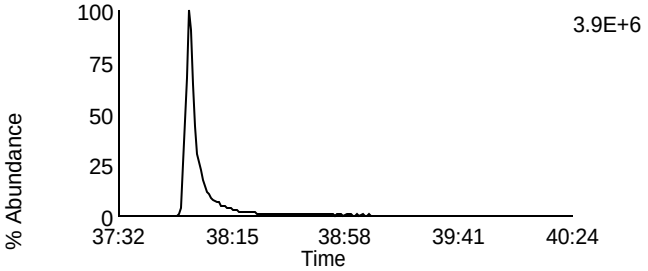

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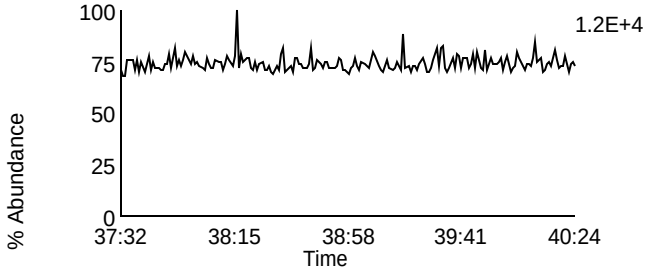
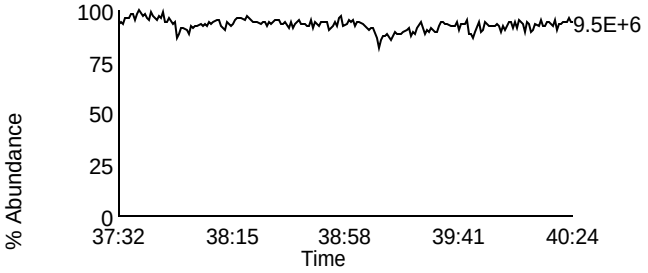


Data File: P140322B_07 G5 C2 - 430.9728
SAMP 10260486012 - BAL PASI-WI

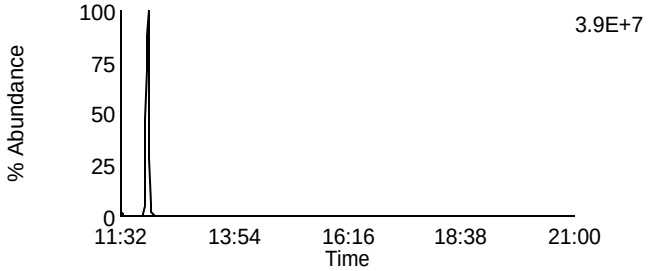


Homologue Group: Tetras

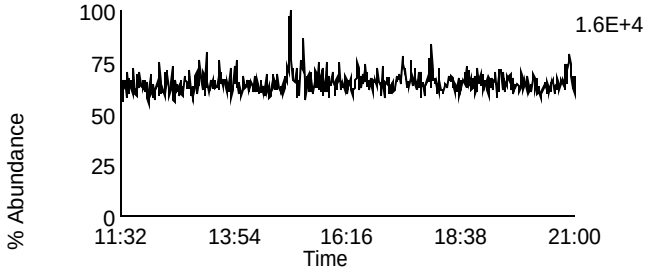
Data File Name: P140322B_08
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486013 - BAL PASI-WI

Lab Sample ID: 10260486013
Client Sample ID: MAK124L
Instrument: 10MSHR09 (P)

Data File: P140322B_08 G1 C1 - 303.9016
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G1 C7 - 319.8965
SAMP 10260486013 - BAL PASI-WI



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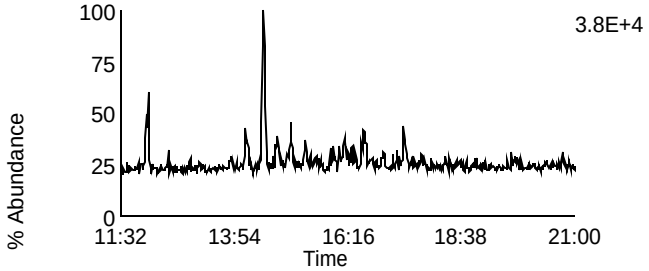
SAMP 10260486013 - BAL PASI-WI



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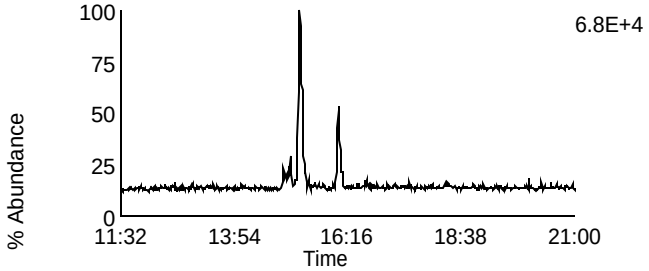
SAMP 10260486013 - BAL PASI-WI



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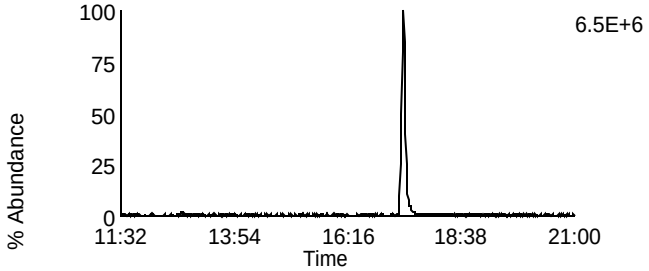
SAMP 10260486013 - BAL PASI-WI



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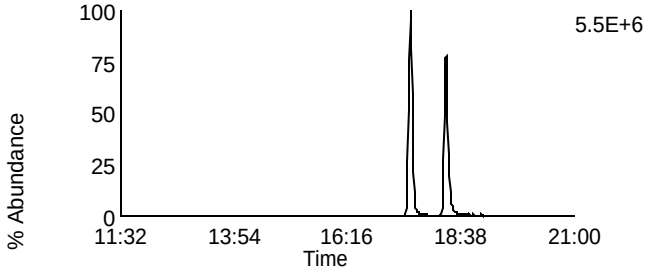
SAMP 10260486013 - BAL PASI-WI



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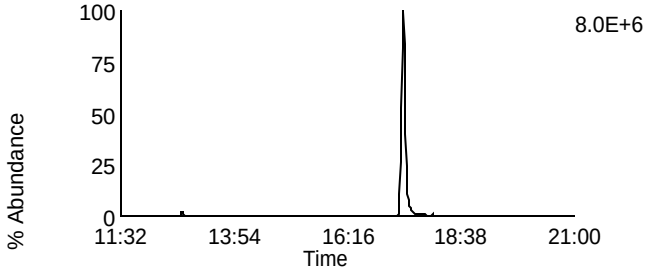
SAMP 10260486013 - BAL PASI-WI



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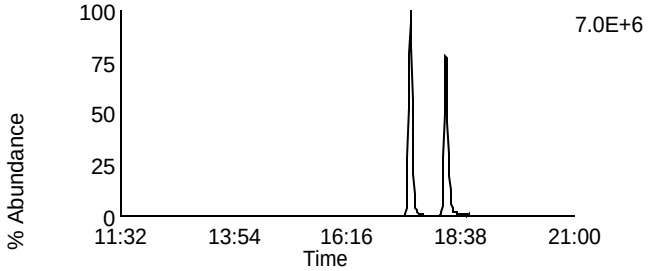
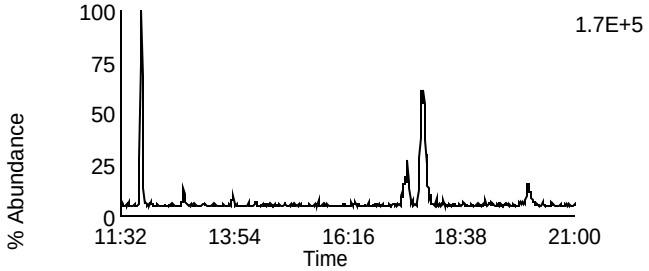
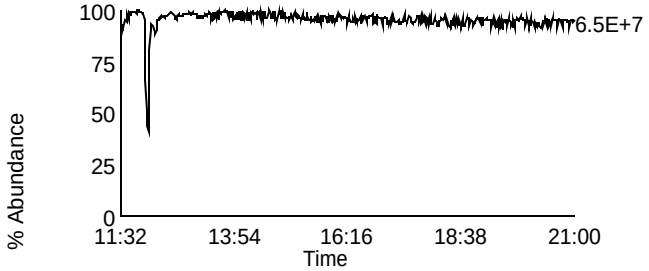


Data File: P140322B_08 G1 C14 - 375.8364
SAMP 10260486013 - BAL PASI-WI



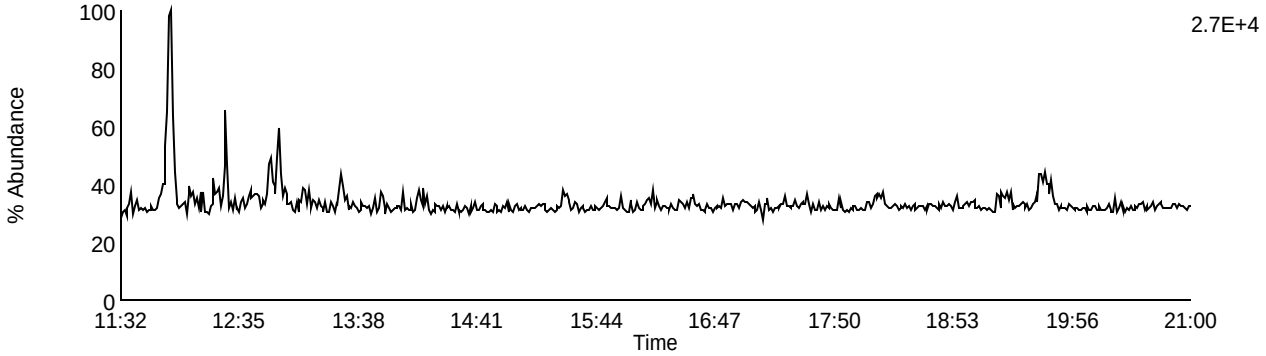
Data File: P140322B_08 G1 C5 - 318.9792
SAMP 10260486013 - BAL PASI-WI



Homologue Group: Penta & Cleanup

Data File Name: P140322B_08	Lab Sample ID: 10260486013
Date Acquired: 3/22/2014	Client Sample ID: MAK124L
Sample Description: SAMP 10260486013 - BAL PASI-WI	Instrument: 10MSHR09 (P)

Data File: P140322B_08 G1 C12 - 339.8597
SAMP 10260486013 - BAL PASI-WI



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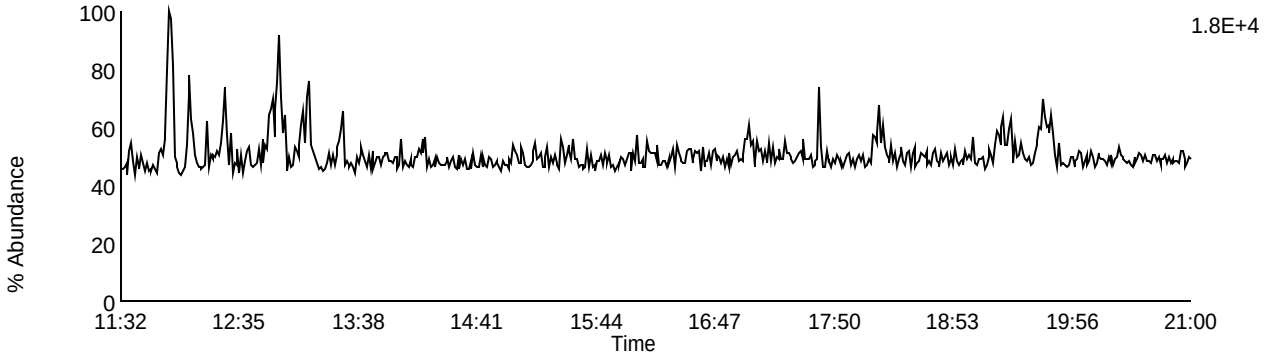
SAMP 10260486013 - BAL PASI-WI



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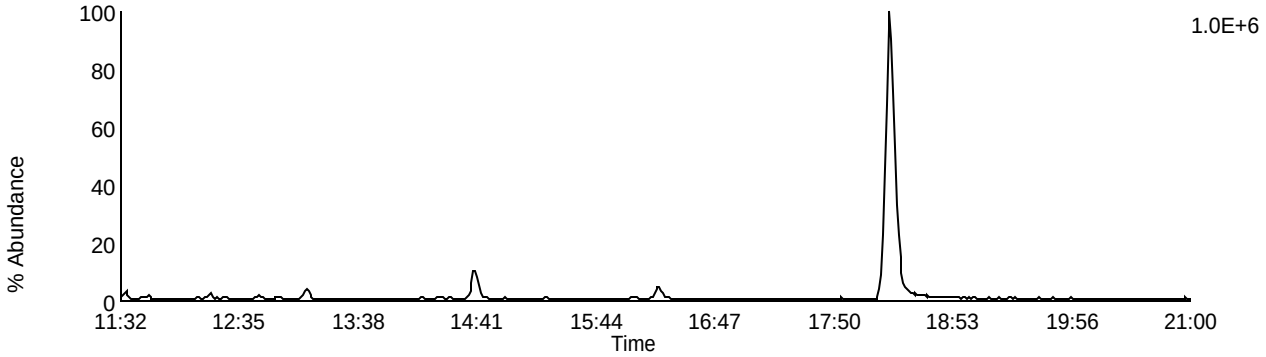
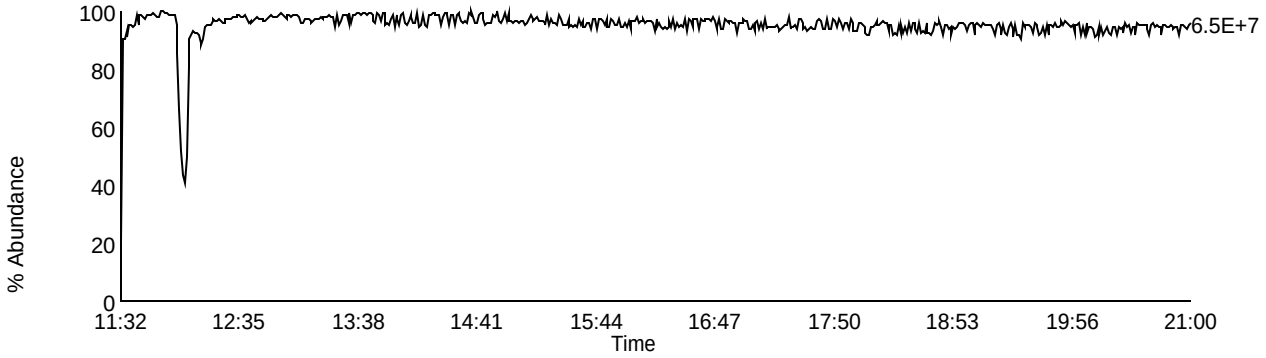
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G1 C5 - 318.9792
SAMP 10260486013 - BAL PASI-WI

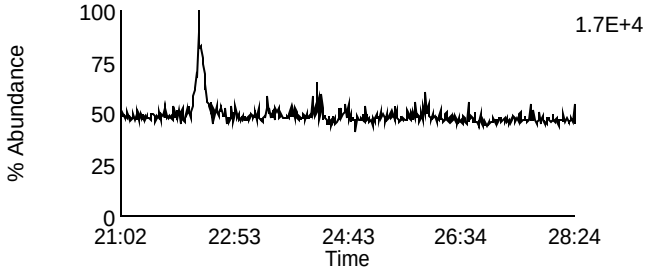


Homologue Group: Pentas

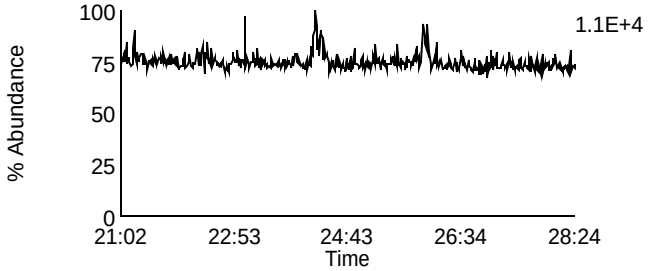
Data File Name: P140322B_08
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486013 - BAL PASI-WI

Lab Sample ID: 10260486013
Client Sample ID: MAK124L
Instrument: 10MSHR09 (P)

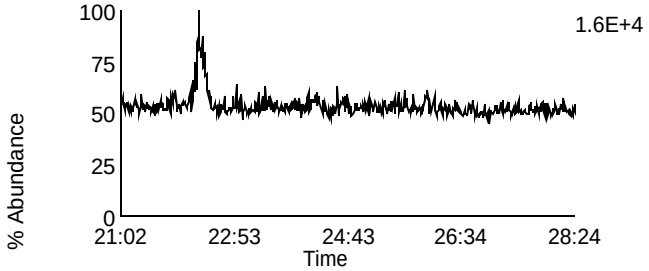
Data File: P140322B_08 G2 C1 - 339.8597
SAMP 10260486013 - BAL PASI-WI



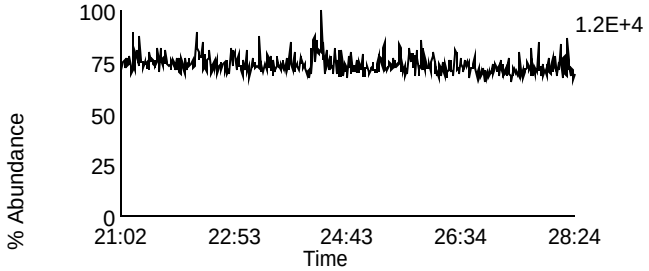
Data File: P140322B_08 G2 C4 - 353.8576
SAMP 10260486013 - BAL PASI-WI



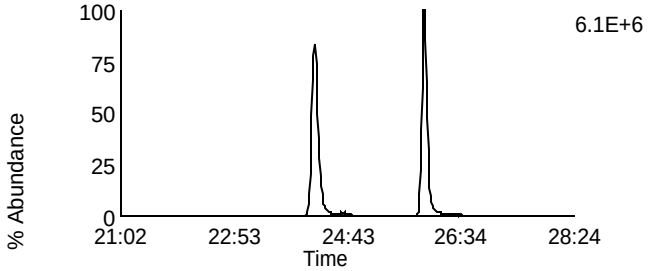
Data File: P140322B_08 G2 C2 - 341.8567
SAMP 10260486013 - BAL PASI-WI



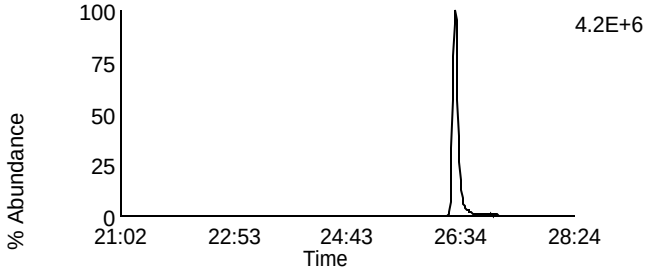
Data File: P140322B_08 G2 C8 - 355.8546
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G2 C3 - 351.8999
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G2 C10 - 367.8948
SAMP 10260486013 - BAL PASI-WI



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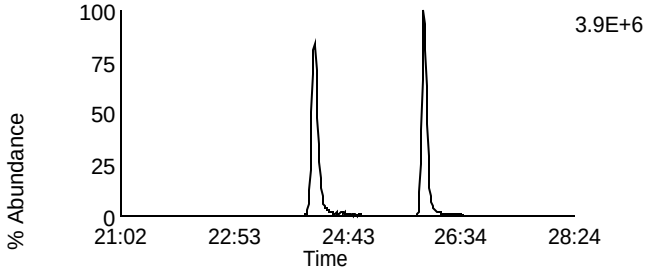
SAMP 10260486013 - BAL PASI-WI



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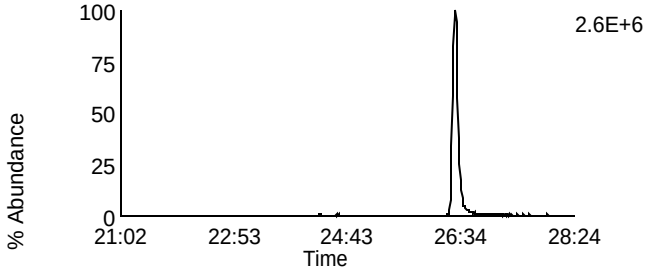

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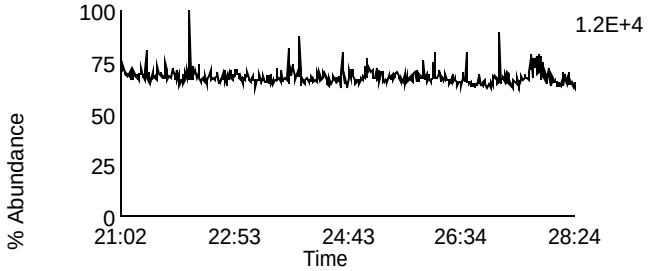
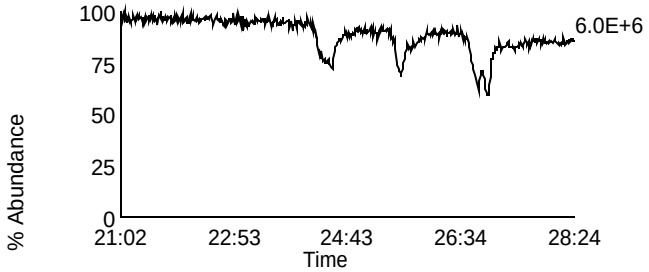
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G2 C6 - 354.9792
SAMP 10260486013 - BAL PASI-WI

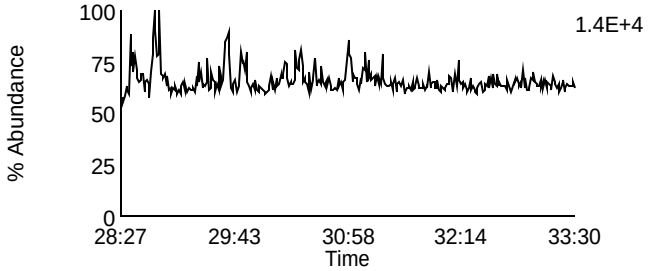


Homologue Group: Hexas

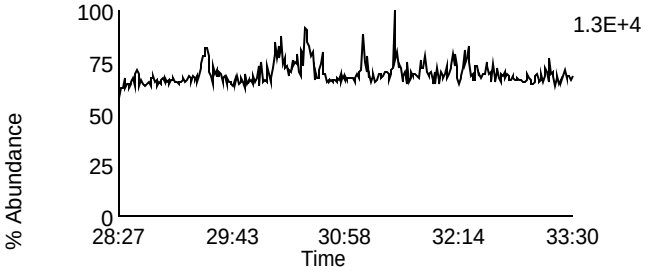
Data File Name: P140322B_08
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486013 - BAL PASI-WI

Lab Sample ID: 10260486013
Client Sample ID: MAK124L
Instrument: 10MSHR09 (P)

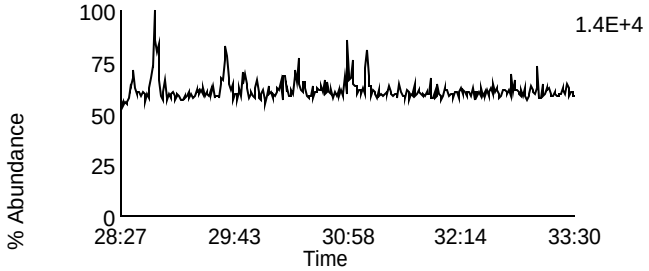
Data File: P140322B_08 G3 C1 - 373.8207
SAMP 10260486013 - BAL PASI-WI



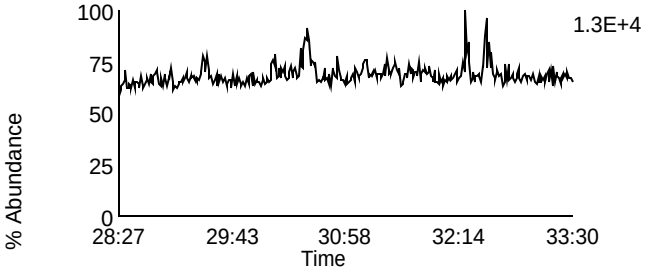
Data File: P140322B_08 G3 C7 - 389.8156
SAMP 10260486013 - BAL PASI-WI



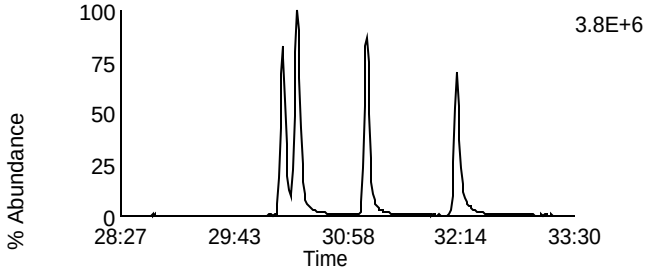
Data File: P140322B_08 G3 C2 - 375.8178
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G3 C8 - 391.8127
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G3 C5 - 383.8639
SAMP 10260486013 - BAL PASI-WI



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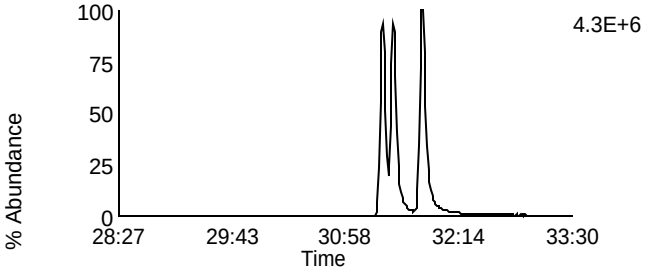
SAMP 10260486013 - BAL PASI-WI



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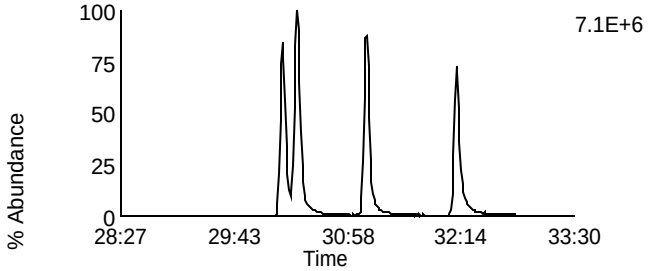

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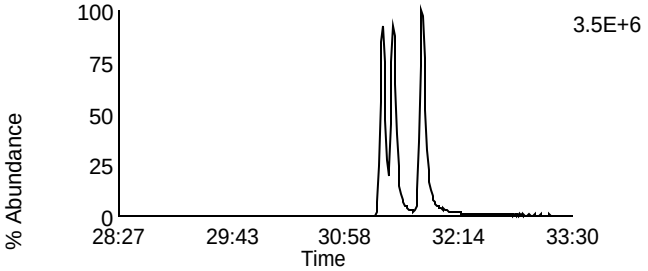

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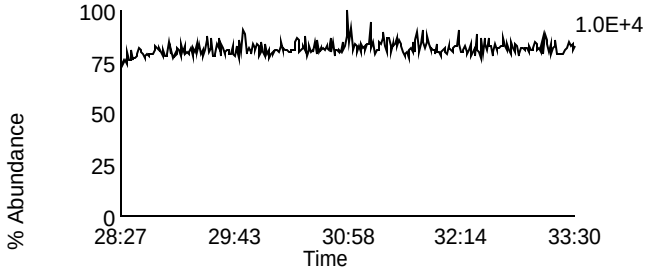
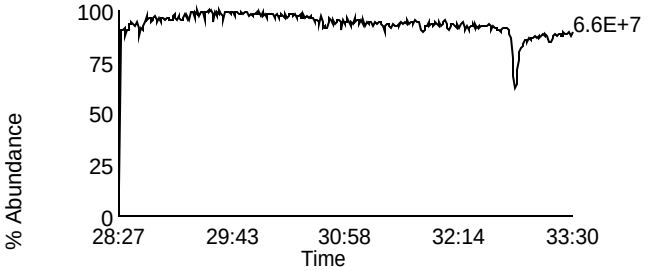
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G3 C3 - 380.976
SAMP 10260486013 - BAL PASI-WI

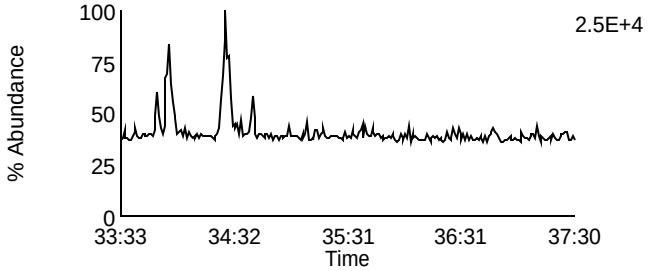


Homologue Group: Heptas

Data File Name: P140322B_08
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486013 - BAL PASI-WI

Lab Sample ID: 10260486013
Client Sample ID: MAK124L
Instrument: 10MSHR09 (P)

Data File: P140322B_08 G4 C3 - 407.7818
SAMP 10260486013 - BAL PASI-WI



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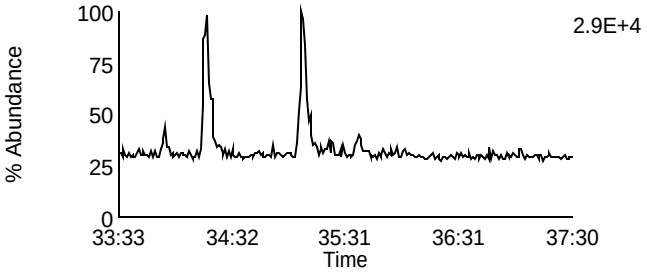
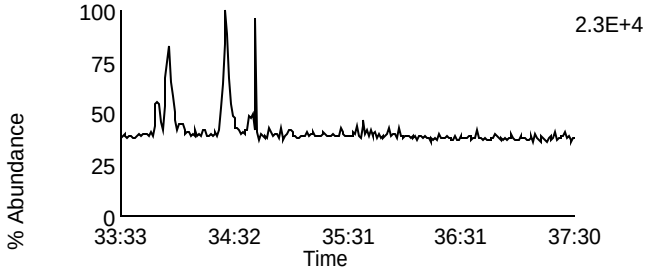
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G4 C4 - 409.7788
SAMP 10260486013 - BAL PASI-WI



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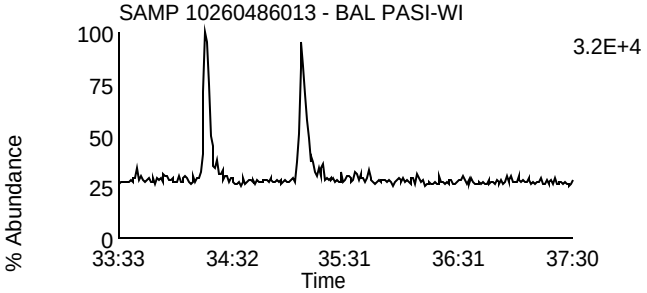
SAMP 10260486013 - BAL PASI-WI



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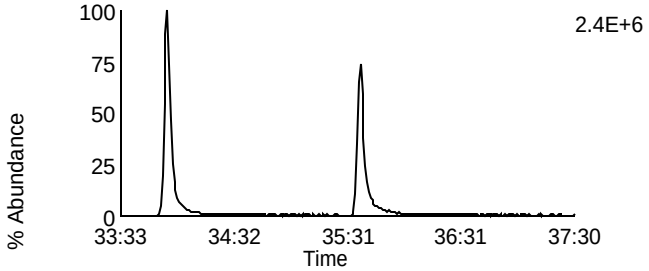
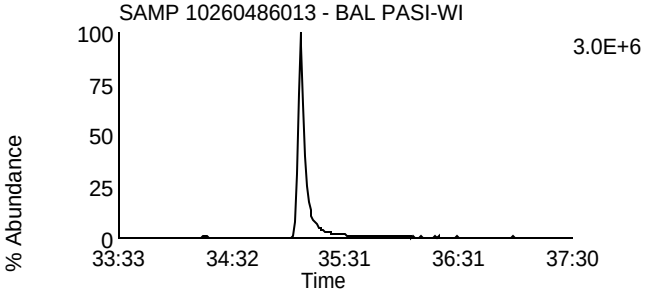
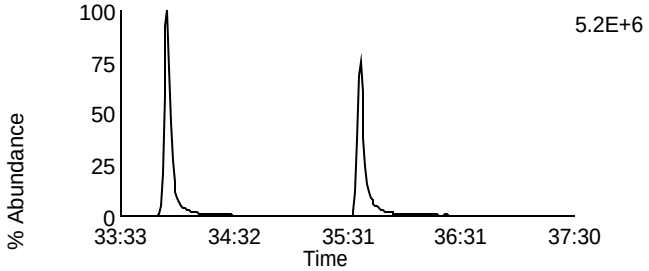
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G4 C11 - 435.8169
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G4 C7 - 419.822
SAMP 10260486013 - BAL PASI-WI



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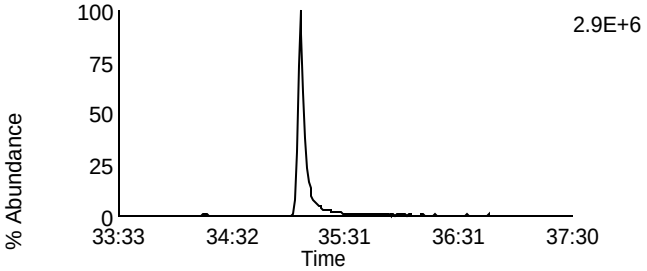
SAMP 10260486013 - BAL PASI-WI



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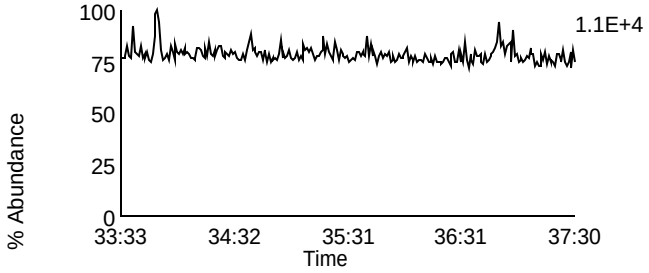
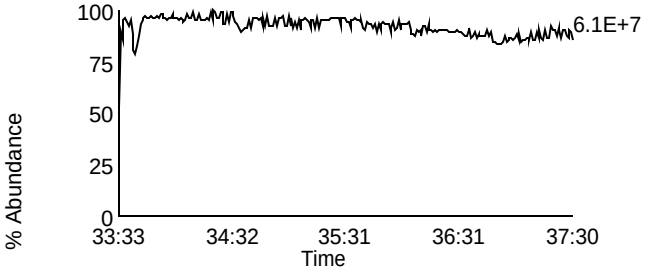
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G4 C1 - 380.976
SAMP 10260486013 - BAL PASI-WI

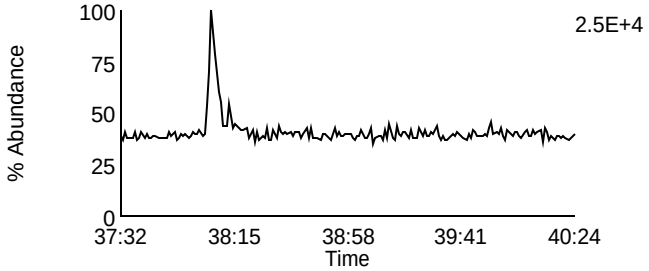


Homologue Group: Octas

Data File Name: P140322B_08
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486013 - BAL PASI-WI

Lab Sample ID: 10260486013
Client Sample ID: MAK124L
Instrument: 10MSHR09 (P)

Data File: P140322B_08 G5 C4 - 441.7428
SAMP 10260486013 - BAL PASI-WI



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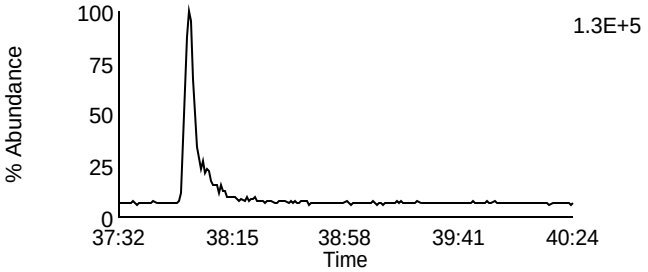
SAMP 10260486013 - BAL PASI-WI



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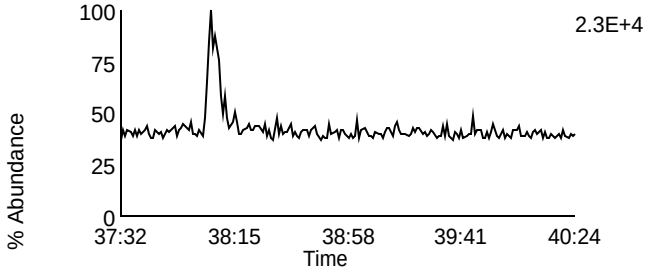
SAMP 10260486013 - BAL PASI-WI



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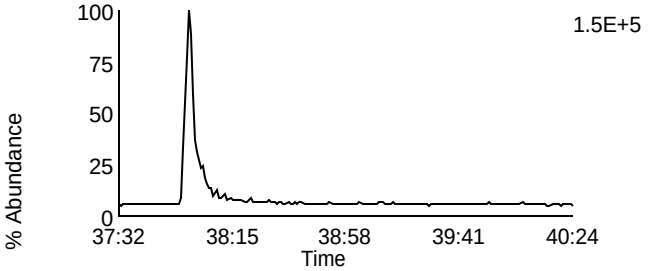
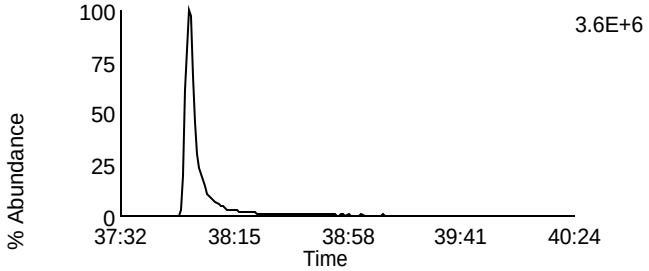
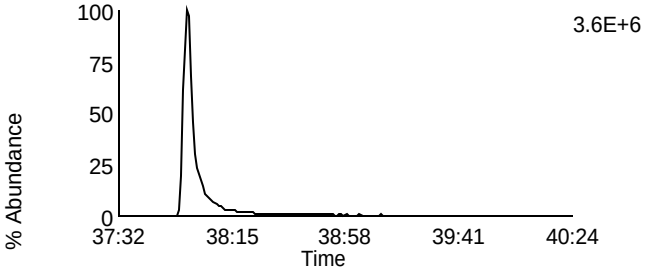
SAMP 10260486013 - BAL PASI-WI



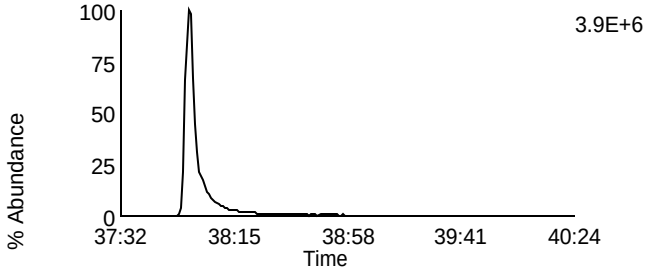
Data File: P140322B_08 G5 C11 - 469.7779
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G5 C11 - 469.7779
SAMP 10260486013 - BAL PASI-WI



Data File: P140322B_08 G5 C12 - 471.7749
SAMP 10260486013 - BAL PASI-WI



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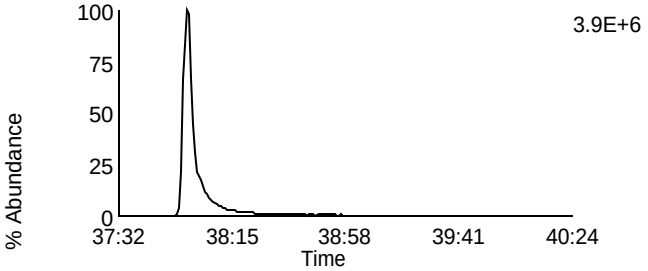

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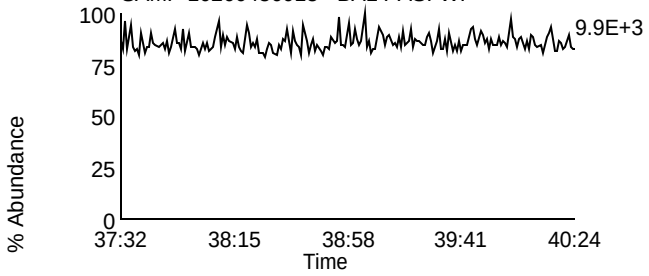
SAMP 10260486013 - BAL PASI-WI



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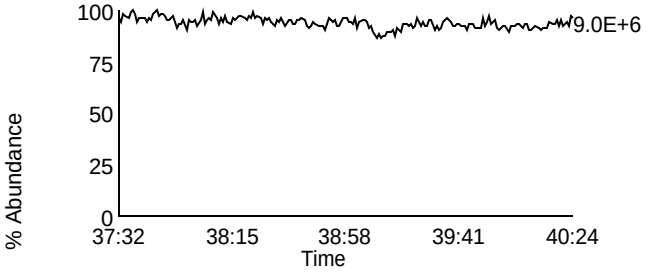
SAMP 10260486013 - BAL PASI-WI

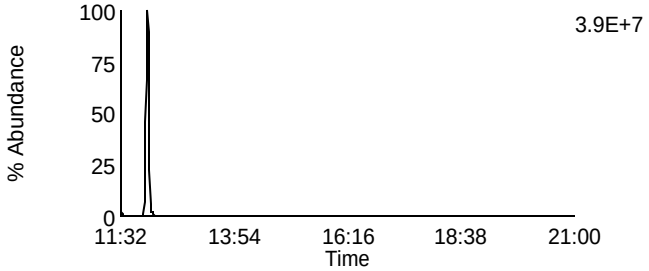


Homologue Group: Tetras

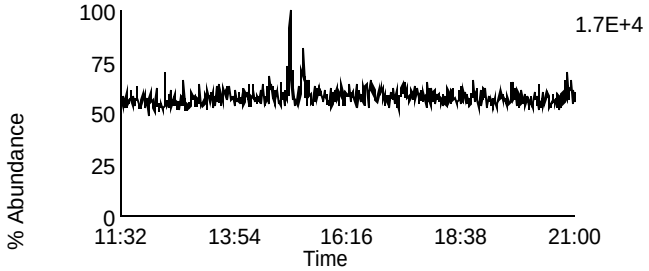
Data File Name: P140322B_09
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486014 - BAL PASI-WI

Lab Sample ID: 10260486014
Client Sample ID: MAK126L
Instrument: 10MSHR09 (P)

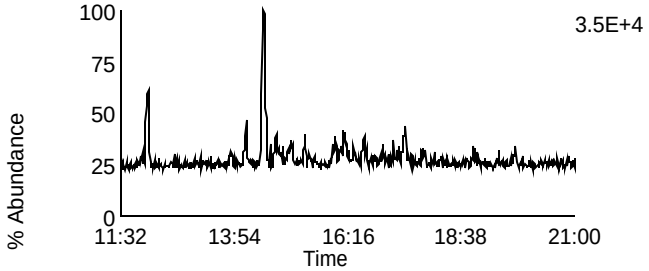
Data File: P140322B_09 G1 C1 - 303.9016
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G1 C7 - 319.8965
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G1 C2 - 305.8987
SAMP 10260486014 - BAL PASI-WI



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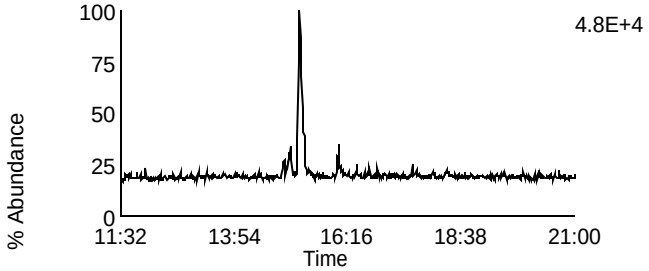
SAMP 10260486014 - BAL PASI-WI



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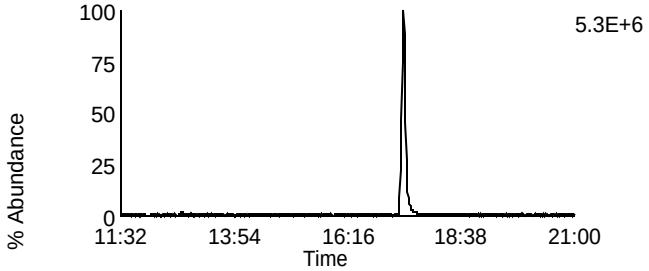
SAMP 10260486014 - BAL PASI-WI



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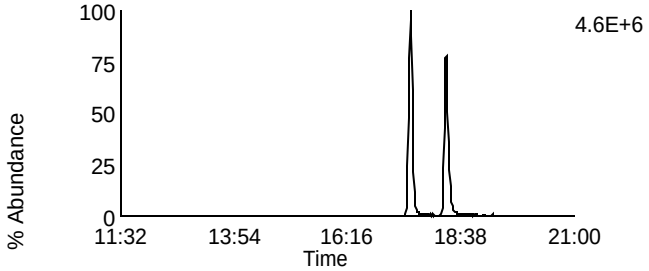
SAMP 10260486014 - BAL PASI-WI



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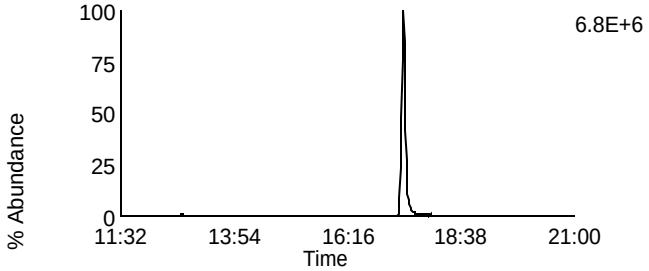
SAMP 10260486014 - BAL PASI-WI



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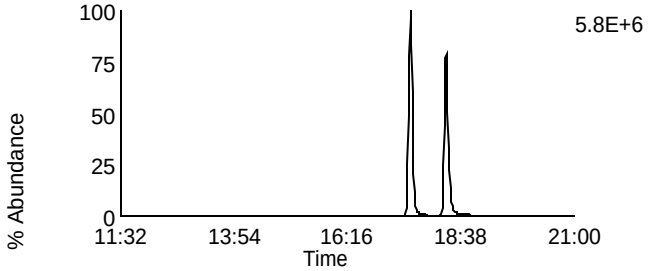
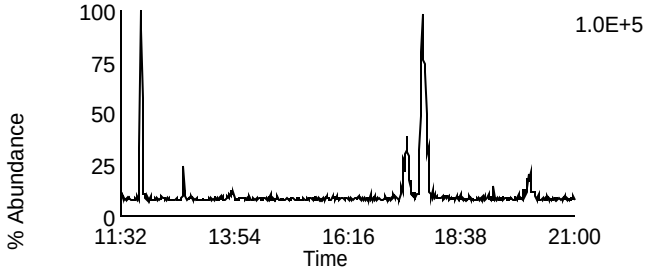
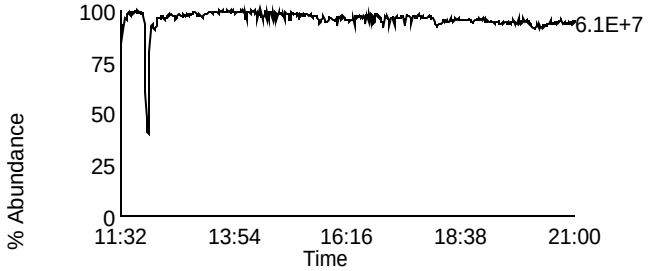
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G1 C14 - 375.8364
SAMP 10260486014 - BAL PASI-WI



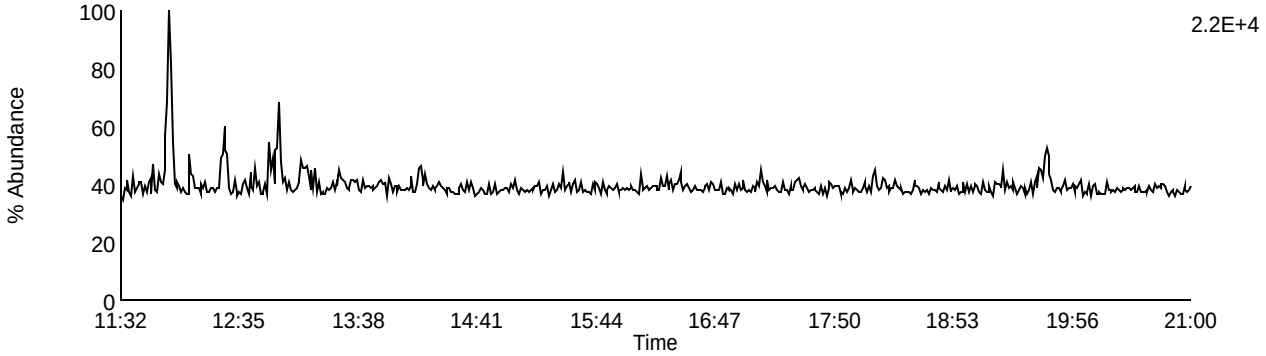
Data File: P140322B_09 G1 C5 - 318.9792
SAMP 10260486014 - BAL PASI-WI



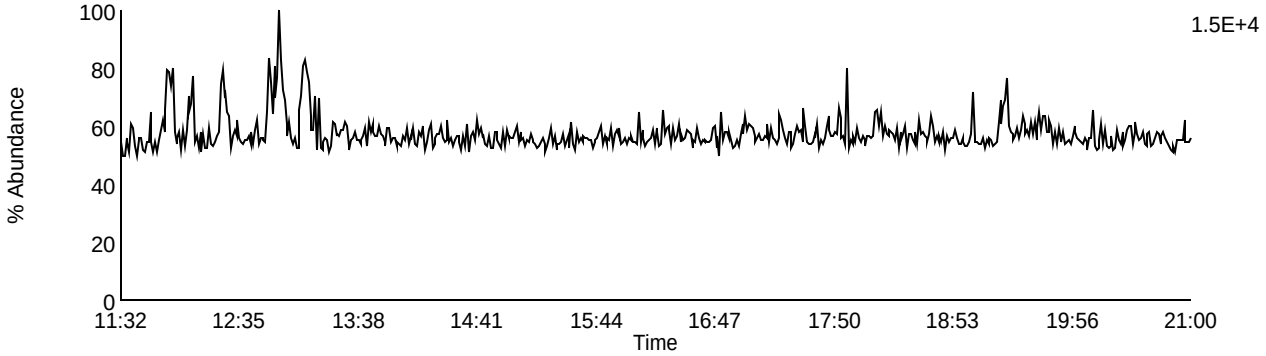
Homologue Group: Penta & Cleanup

Data File Name: P140322B_09	Lab Sample ID: 10260486014
Date Acquired: 3/22/2014	Client Sample ID: MAK126L
Sample Description: SAMP 10260486014 - BAL PASI-WI	Instrument: 10MSHR09 (P)

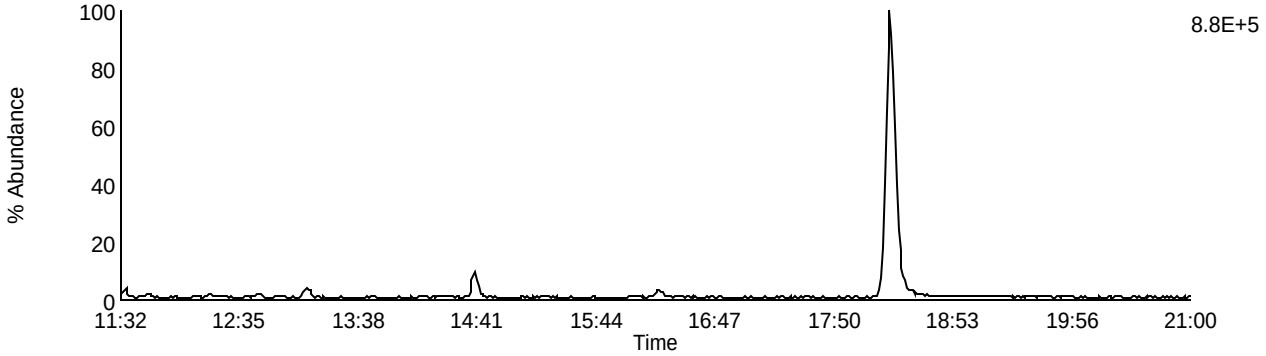
Data File: P140322B_09 G1 C12 - 339.8597
SAMP 10260486014 - BAL PASI-WI



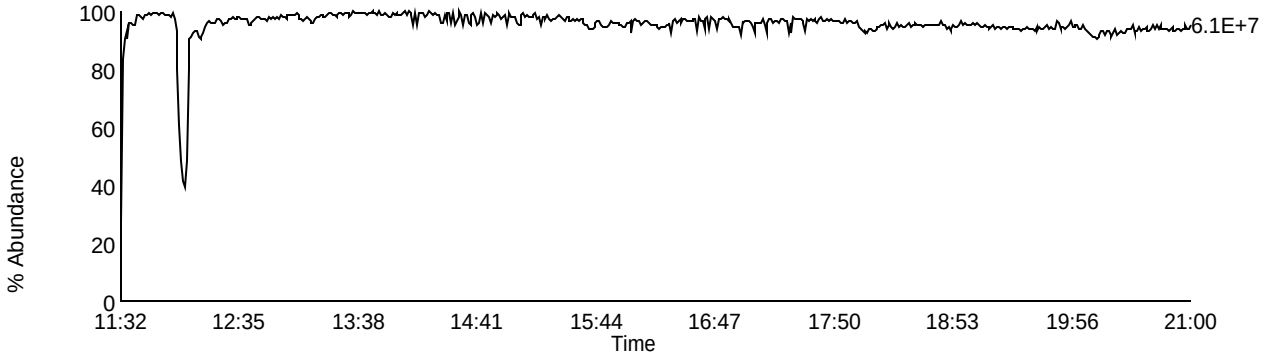
Data File: P140322B_09 G1 C13 - 341.8567
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G1 C9 - 327.8847
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G1 C5 - 318.9792
SAMP 10260486014 - BAL PASI-WI

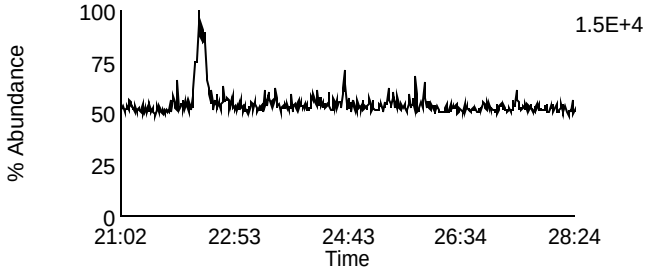


Homologue Group: Pentas

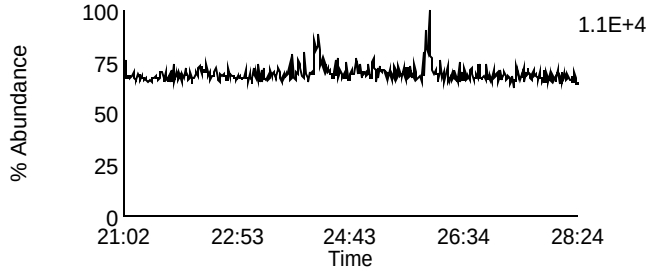
Data File Name: P140322B_09
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486014 - BAL PASI-WI

Lab Sample ID: 10260486014
Client Sample ID: MAK126L
Instrument: 10MSHR09 (P)

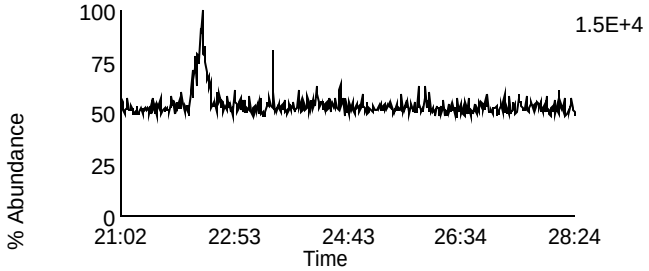
Data File: P140322B_09 G2 C1 - 339.8597
SAMP 10260486014 - BAL PASI-WI



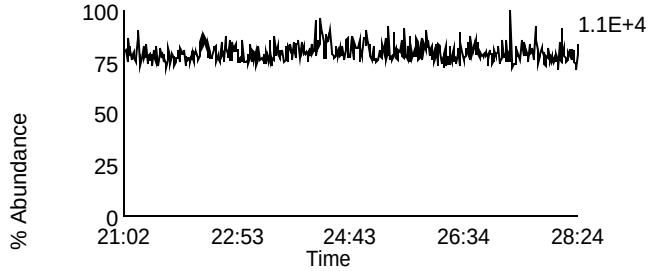
Data File: P140322B_09 G2 C4 - 353.8576
SAMP 10260486014 - BAL PASI-WI



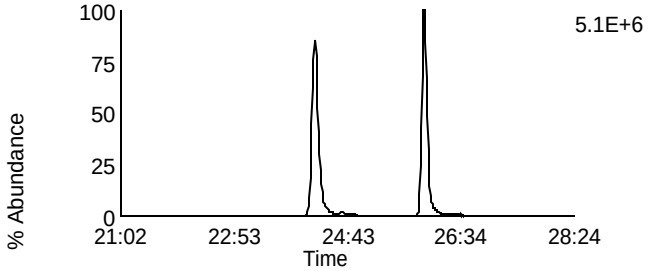
Data File: P140322B_09 G2 C2 - 341.8567
SAMP 10260486014 - BAL PASI-WI



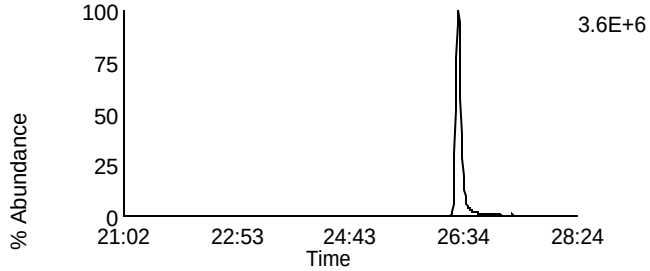
Data File: P140322B_09 G2 C8 - 355.8546
SAMP 10260486014 - BAL PASI-WI



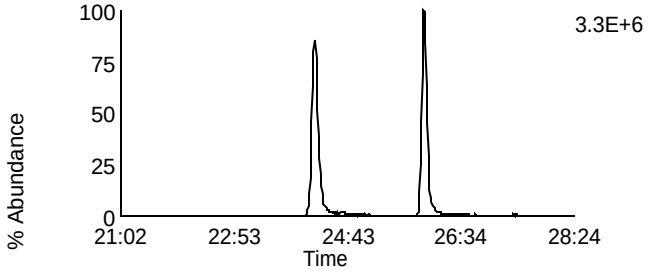
Data File: P140322B_09 G2 C3 - 351.8999
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G2 C10 - 367.8948
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G2 C5 - 353.8969
SAMP 10260486014 - BAL PASI-WI



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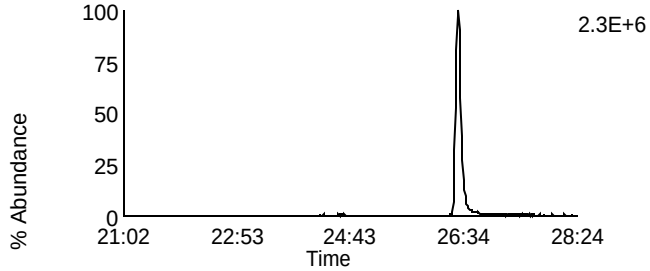
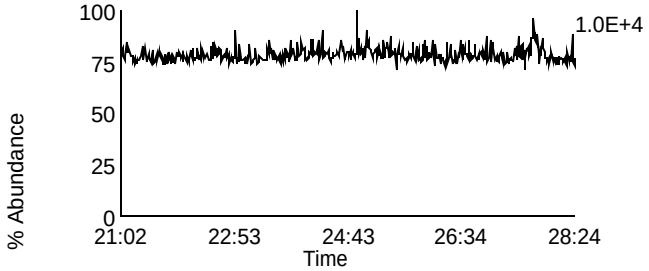
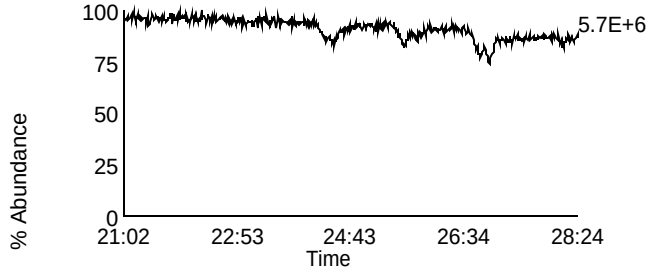
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G2 C12 - 409.7974
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G2 C6 - 354.9792
SAMP 10260486014 - BAL PASI-WI

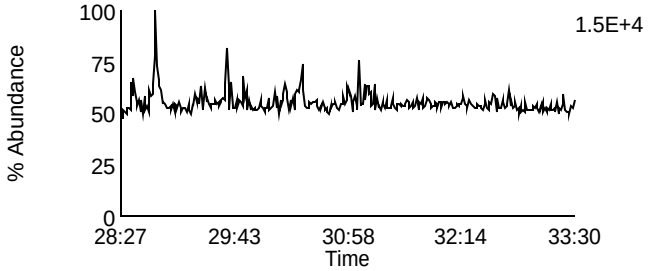


Homologue Group: Hexas

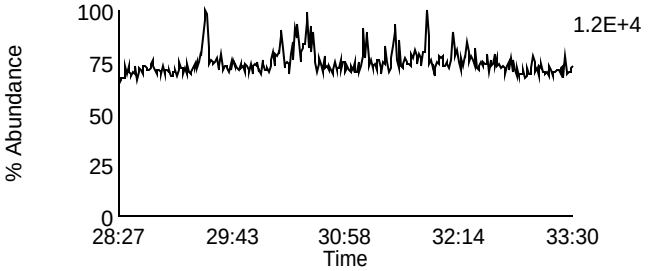
Data File Name: P140322B_09
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486014 - BAL PASI-WI

Lab Sample ID: 10260486014
Client Sample ID: MAK126L
Instrument: 10MSHR09 (P)

Data File: P140322B_09 G3 C1 - 373.8207
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G3 C7 - 389.8156
SAMP 10260486014 - BAL PASI-WI



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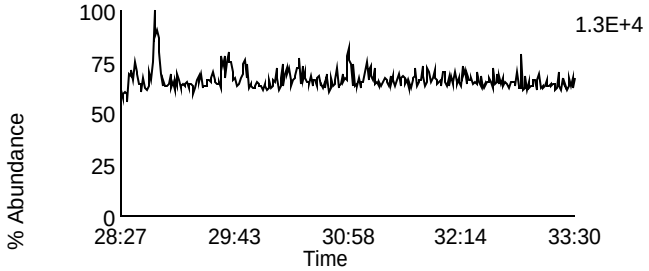
SAMP 10260486014 - BAL PASI-WI



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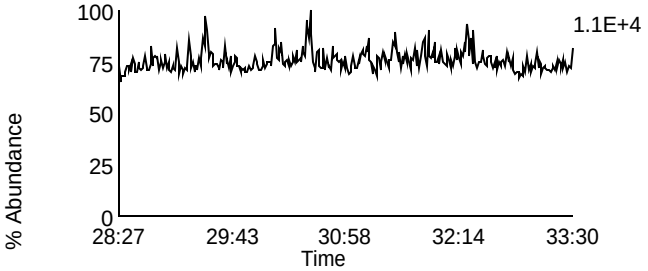
SAMP 10260486014 - BAL PASI-WI



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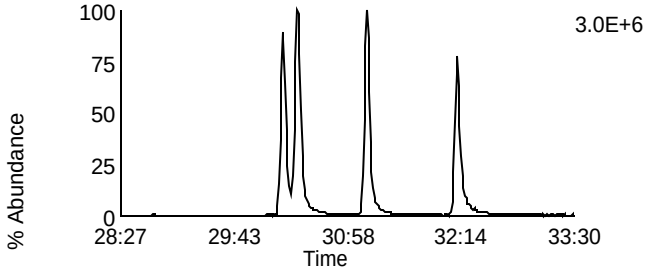
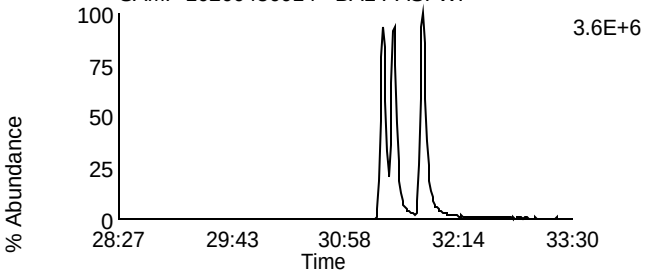
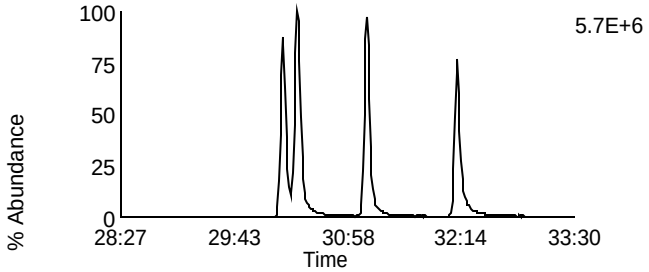
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G3 C9 - 401.8559
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G3 C6 - 385.861
SAMP 10260486014 - BAL PASI-WI



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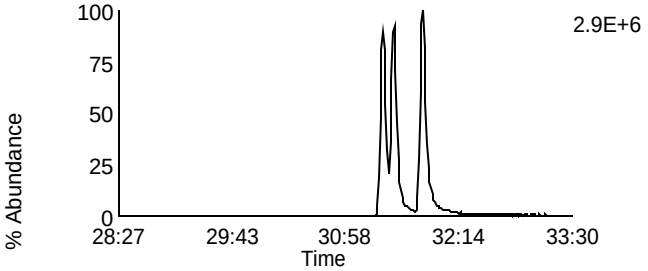
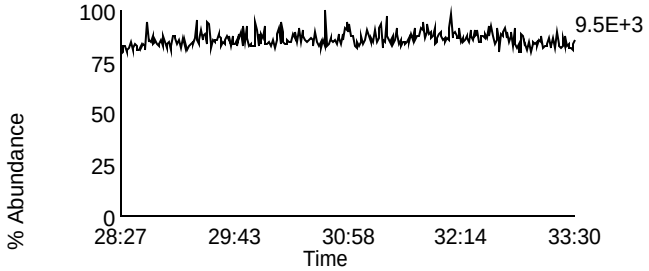
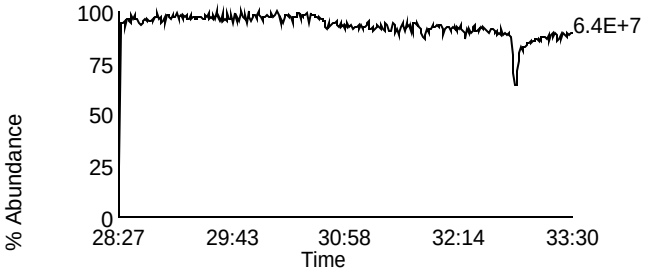


Data File: P140322B_09 G3 C11 - 445.7555
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G3 C3 - 380.976
SAMP 10260486014 - BAL PASI-WI

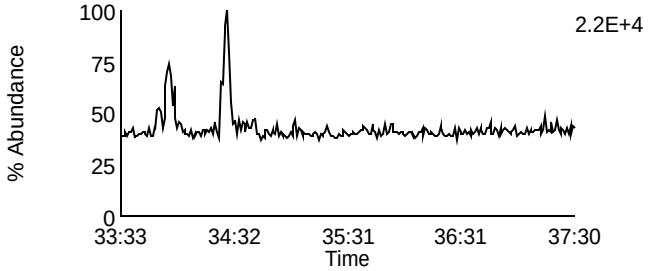


Homologue Group: Heptas

Data File Name: P140322B_09
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486014 - BAL PASI-WI

Lab Sample ID: 10260486014
Client Sample ID: MAK126L
Instrument: 10MSHR09 (P)

Data File: P140322B_09 G4 C3 - 407.7818
SAMP 10260486014 - BAL PASI-WI



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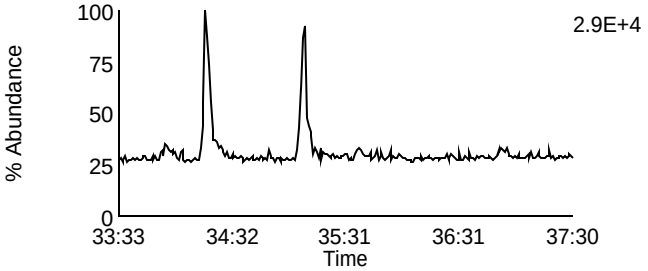
SAMP 10260486014 - BAL PASI-WI



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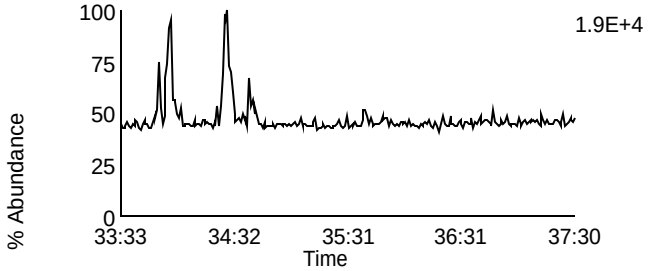
SAMP 10260486014 - BAL PASI-WI



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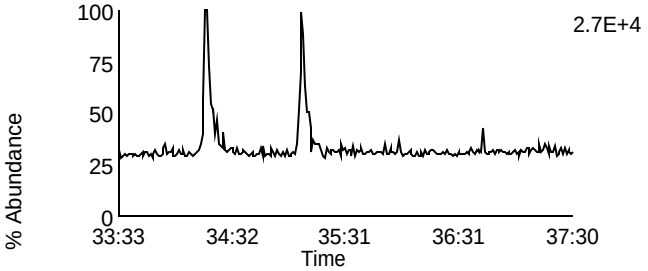
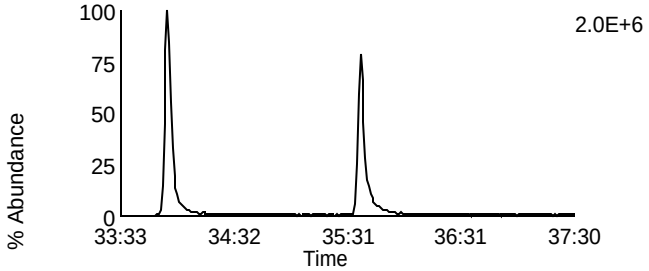
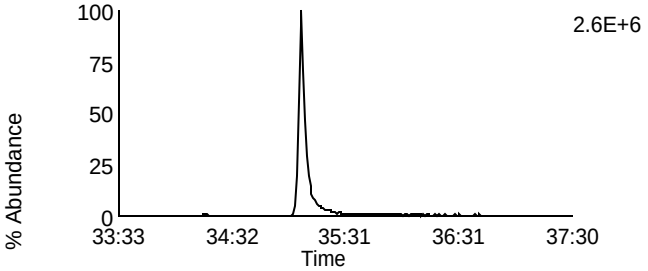
SAMP 10260486014 - BAL PASI-WI



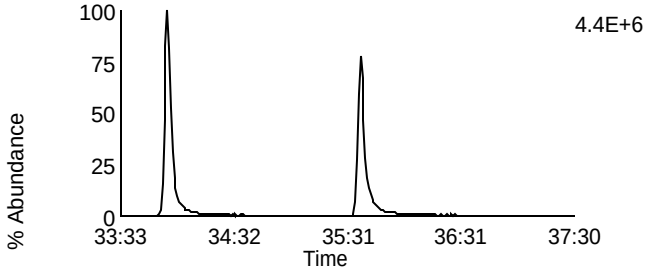
Data File: P140322B_09 G4 C6 - 417.825
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G4 C11 - 435.8169
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G4 C7 - 419.822
SAMP 10260486014 - BAL PASI-WI



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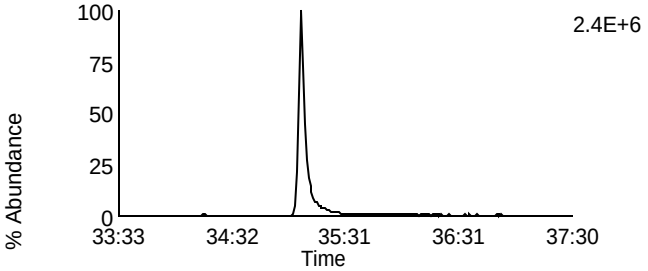
SAMP 10260486014 - BAL PASI-WI



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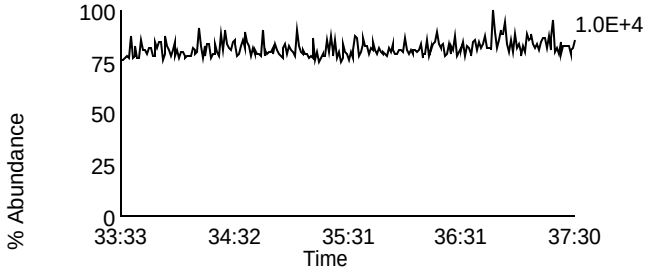
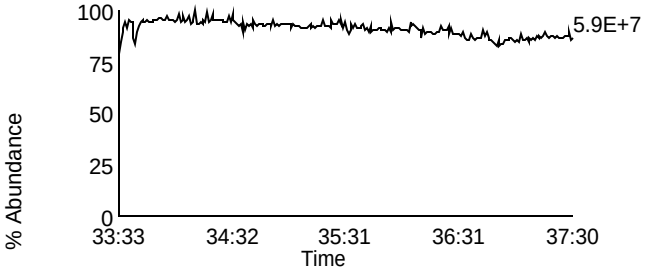
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G4 C1 - 380.976
SAMP 10260486014 - BAL PASI-WI

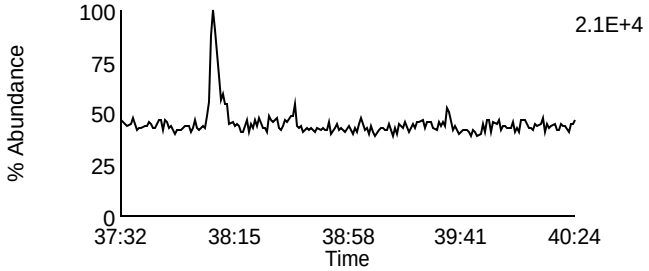


Homologue Group: Octas

Data File Name: P140322B_09
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486014 - BAL PASI-WI

Lab Sample ID: 10260486014
Client Sample ID: MAK126L
Instrument: 10MSHR09 (P)

Data File: P140322B_09 G5 C4 - 441.7428
SAMP 10260486014 - BAL PASI-WI



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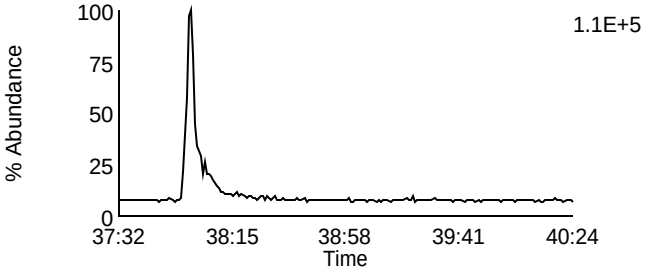
SAMP 10260486014 - BAL PASI-WI



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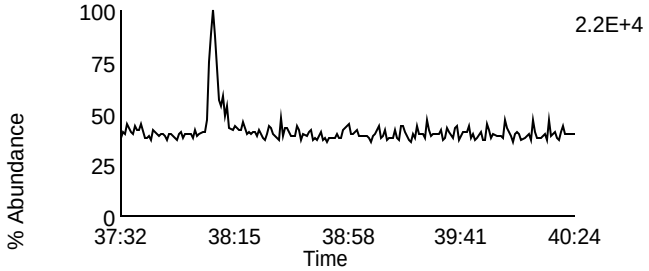
SAMP 10260486014 - BAL PASI-WI



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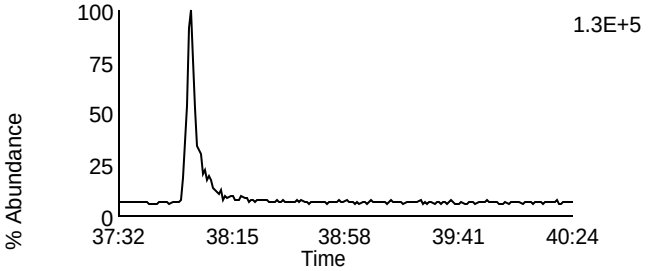
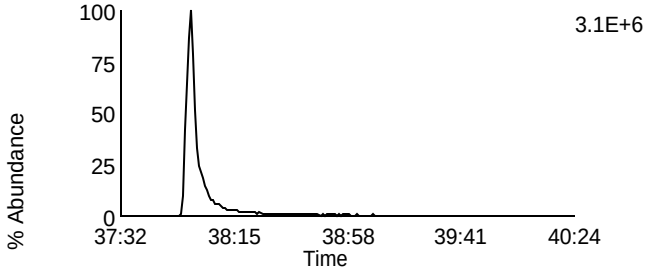
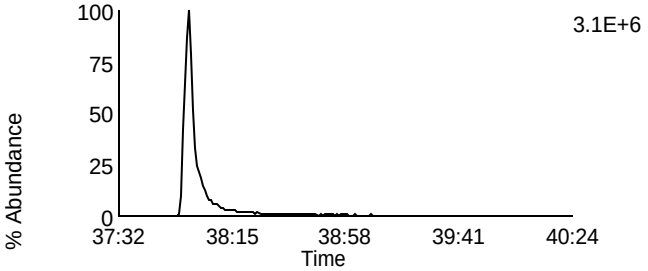
SAMP 10260486014 - BAL PASI-WI



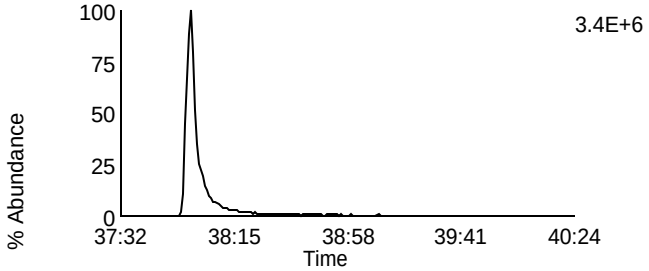
Data File: P140322B_09 G5 C11 - 469.7779
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G5 C11 - 469.7779
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G5 C12 - 471.7749
SAMP 10260486014 - BAL PASI-WI



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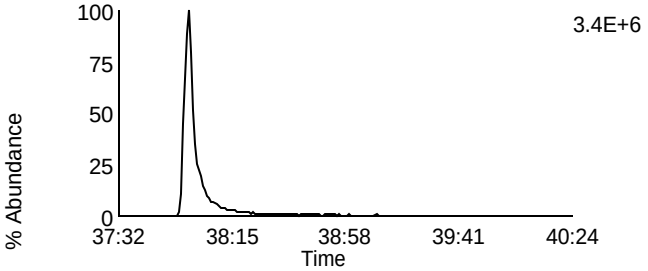

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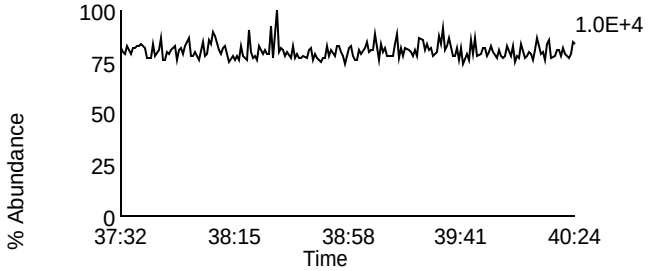
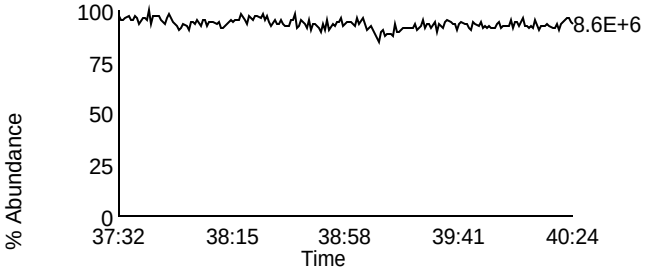
SAMP 10260486014 - BAL PASI-WI



Data File: P140322B_09 G5 C2 - 430.9728
SAMP 10260486014 - BAL PASI-WI

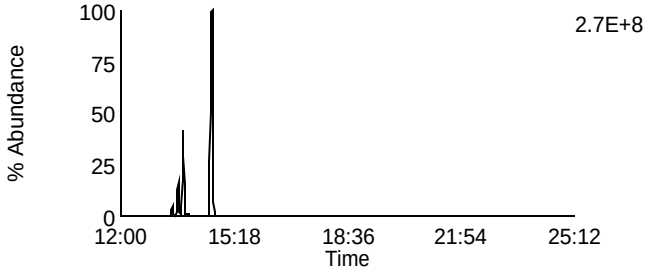


Homologue Group: Tetras

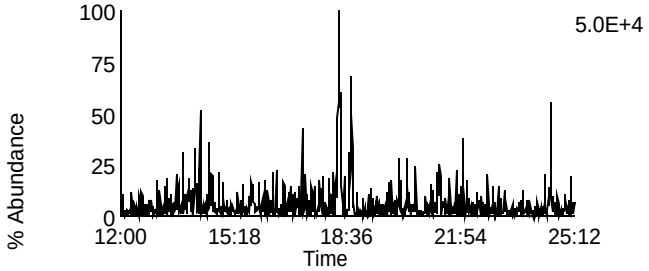
Data File Name: U140328B_13
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486015 - BAL PASI-WI

Lab Sample ID: 10260486015
Client Sample ID: MAK127L
Instrument: 10MSHR06 (U)

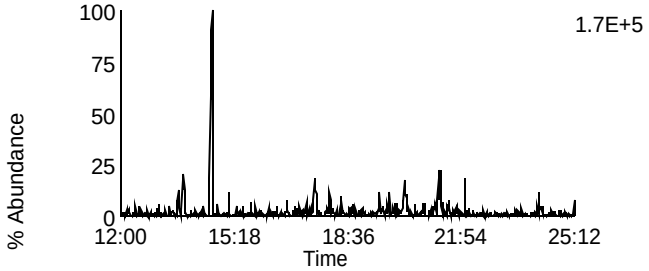
Data File: U140328B_13 G1 C1 - 303.9016
SAMP 10260486015 - BAL PASI-WI



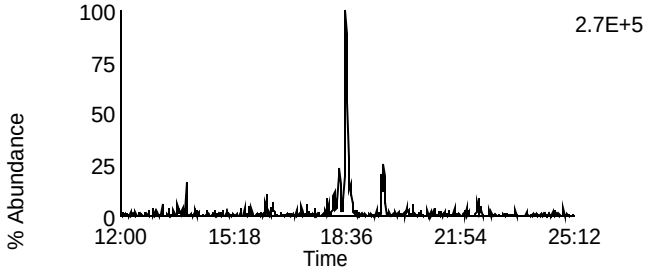
Data File: U140328B_13 G1 C7 - 319.8965
SAMP 10260486015 - BAL PASI-WI



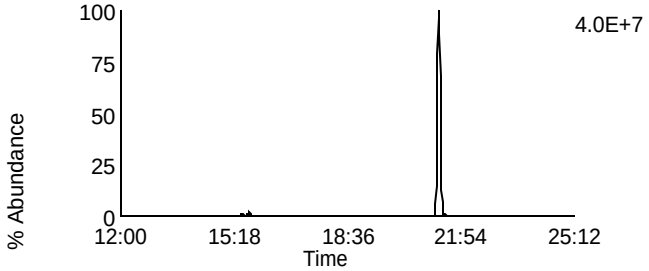
Data File: U140328B_13 G1 C2 - 305.8987
SAMP 10260486015 - BAL PASI-WI



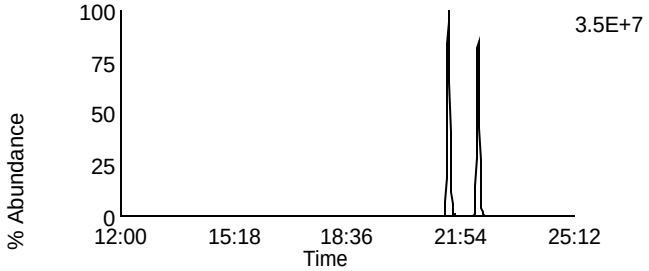
Data File: U140328B_13 G1 C8 - 321.8936
SAMP 10260486015 - BAL PASI-WI



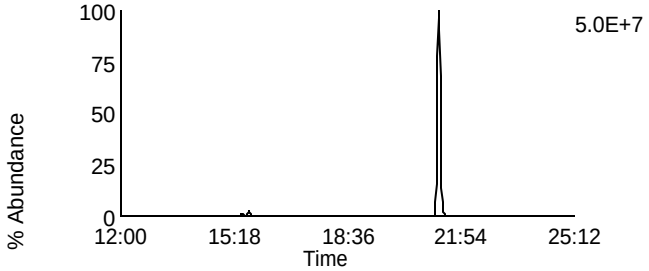
Data File: U140328B_13 G1 C3 - 315.9418
SAMP 10260486015 - BAL PASI-WI



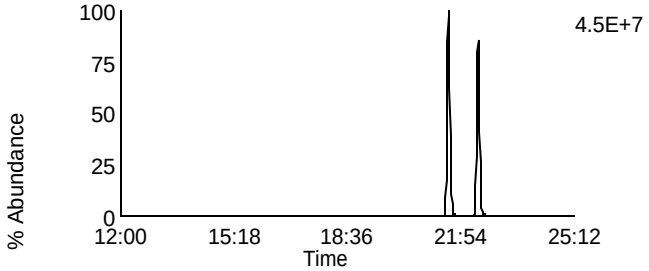
Data File: U140328B_13 G1 C10 - 331.9367
SAMP 10260486015 - BAL PASI-WI



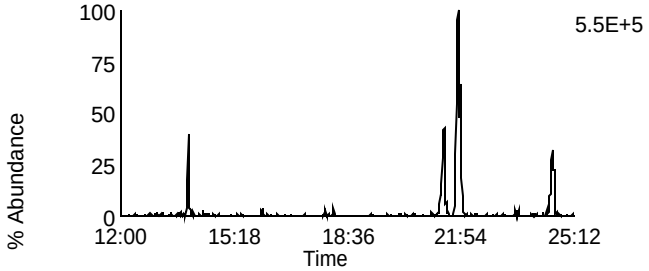
Data File: U140328B_13 G1 C4 - 317.9389
SAMP 10260486015 - BAL PASI-WI



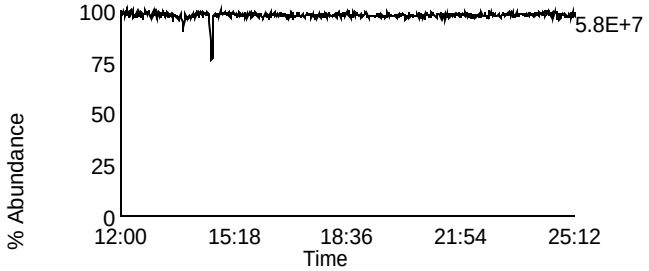
Data File: U140328B_13 G1 C11 - 333.9338
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G1 C14 - 375.8364
SAMP 10260486015 - BAL PASI-WI



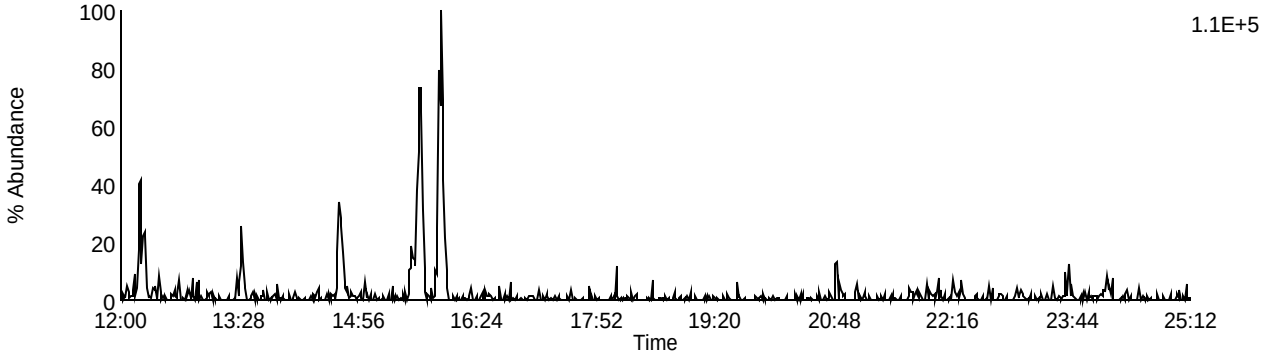
Data File: U140328B_13 G1 C5 - 318.9792
SAMP 10260486015 - BAL PASI-WI



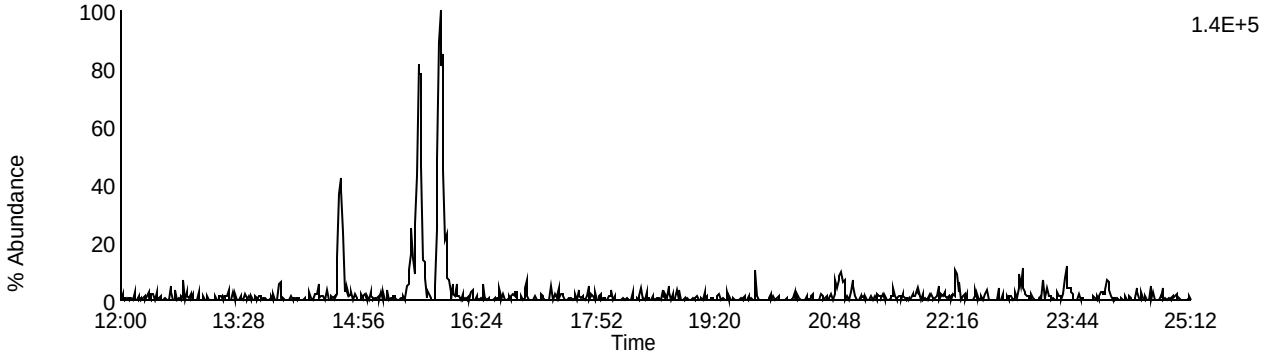
Homologue Group: Penta & Cleanup

Data File Name: U140328B_13	Lab Sample ID: 10260486015
Date Acquired: 3/29/2014	Client Sample ID: MAK127L
Sample Description: SAMP 10260486015 - BAL PASI-WI	Instrument: 10MSHR06 (U)

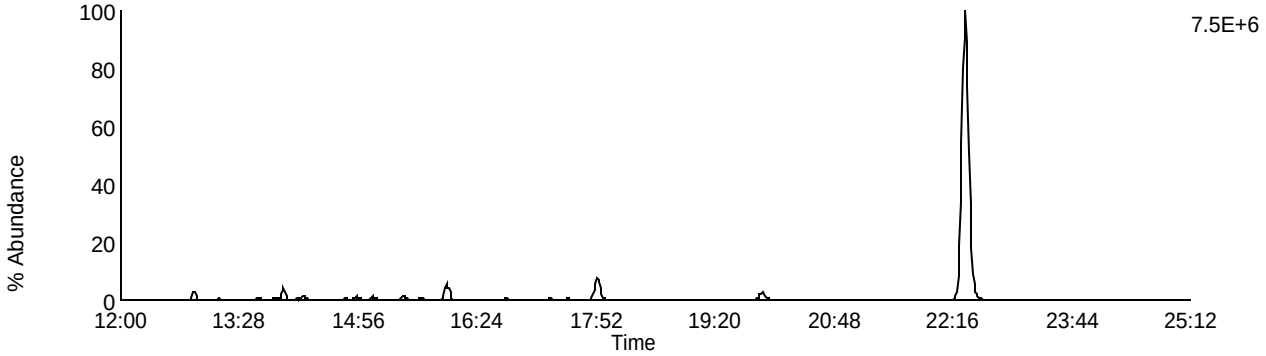
Data File: U140328B_13 G1 C12 - 339.8597
SAMP 10260486015 - BAL PASI-WI



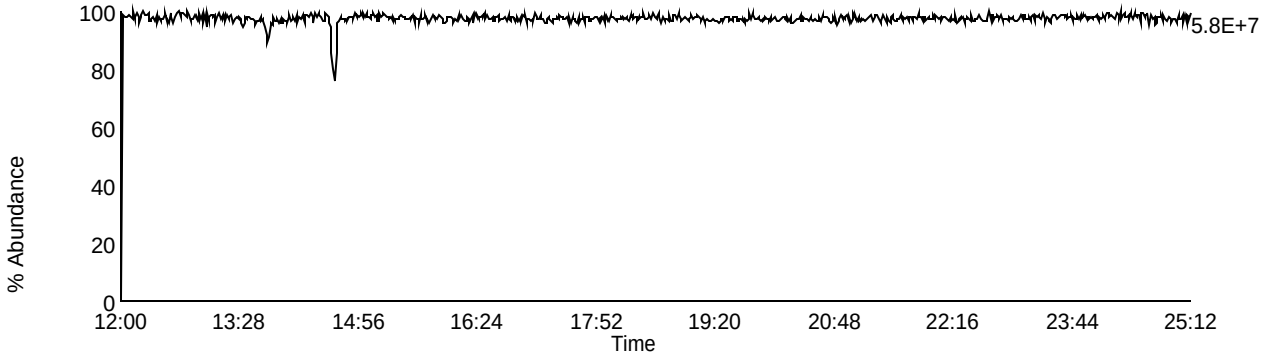
Data File: U140328B_13 G1 C13 - 341.8567
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G1 C9 - 327.8847
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G1 C5 - 318.9792
SAMP 10260486015 - BAL PASI-WI

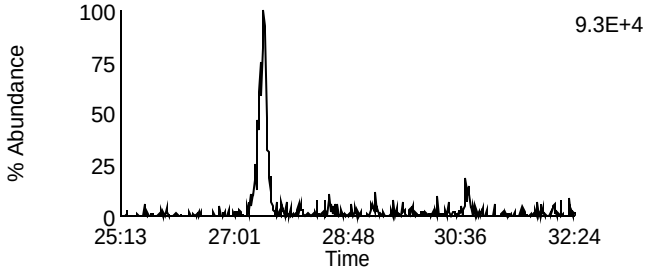


Homologue Group: Pentas

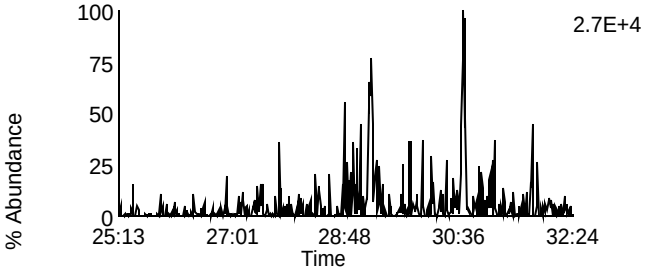
Data File Name: U140328B_13
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486015 - BAL PASI-WI

Lab Sample ID: 10260486015
Client Sample ID: MAK127L
Instrument: 10MSHR06 (U)

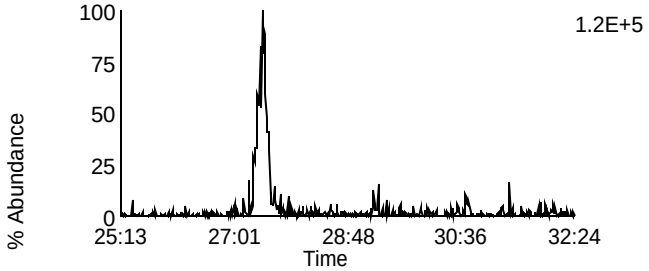
Data File: U140328B_13 G2 C1 - 339.8597
SAMP 10260486015 - BAL PASI-WI



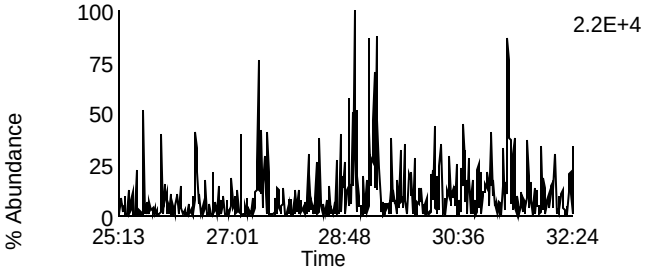
Data File: U140328B_13 G2 C4 - 353.8576
SAMP 10260486015 - BAL PASI-WI



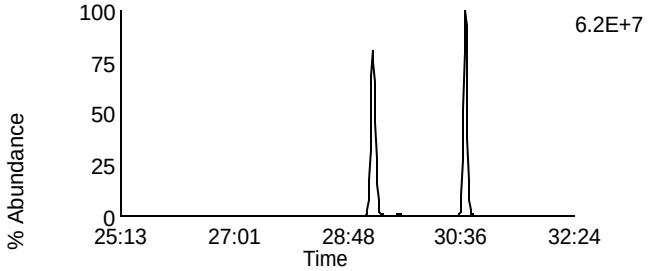
Data File: U140328B_13 G2 C2 - 341.8567
SAMP 10260486015 - BAL PASI-WI



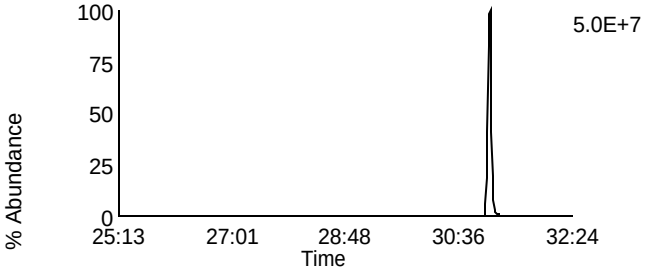
Data File: U140328B_13 G2 C8 - 355.8546
SAMP 10260486015 - BAL PASI-WI



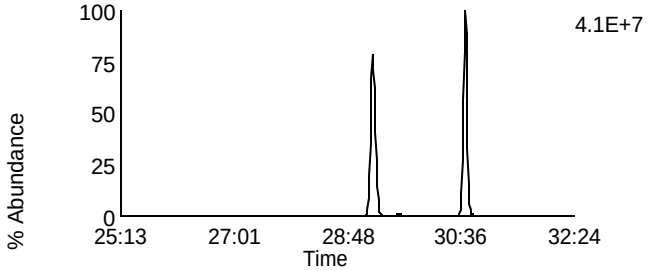
Data File: U140328B_13 G2 C3 - 351.8999
SAMP 10260486015 - BAL PASI-WI



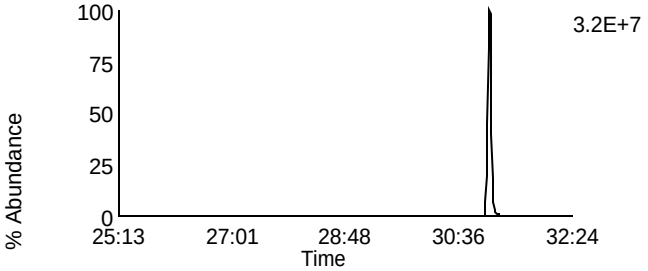
Data File: U140328B_13 G2 C10 - 367.8948
SAMP 10260486015 - BAL PASI-WI



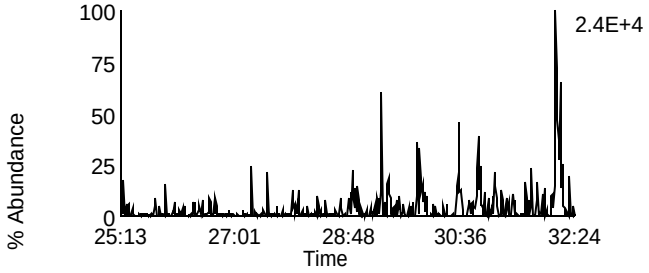
Data File: U140328B_13 G2 C5 - 353.8969
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G2 C11 - 369.8918
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G2 C12 - 409.7974
SAMP 10260486015 - BAL PASI-WI



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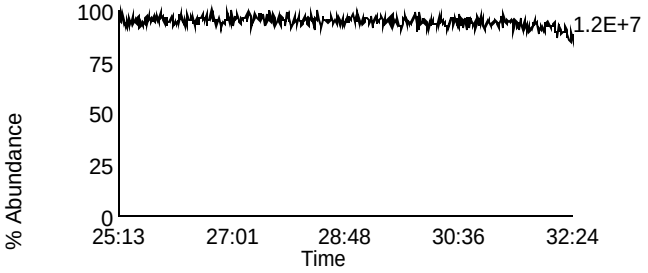
SAMP 10260486015 - BAL PASI-WI

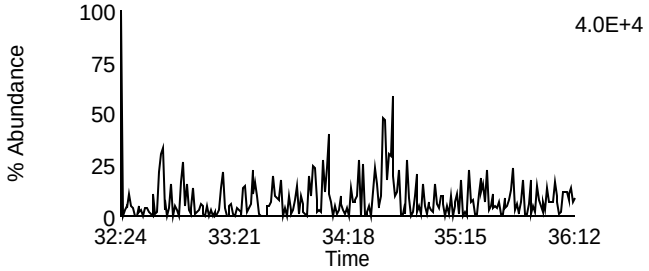


Homologue Group: Hexas

Data File Name: U140328B_13
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486015 - BAL PASI-WI

Lab Sample ID: 10260486015
Client Sample ID: MAK127L
Instrument: 10MSHR06 (U)

Data File: U140328B_13 G3 C1 - 373.8207
SAMP 10260486015 - BAL PASI-WI



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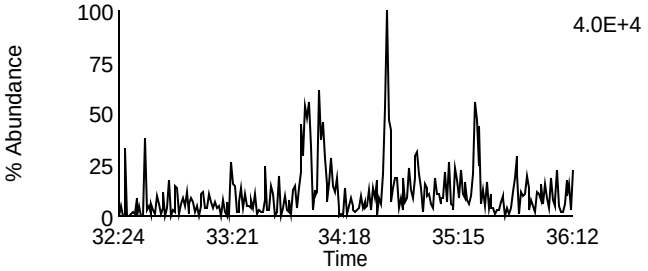
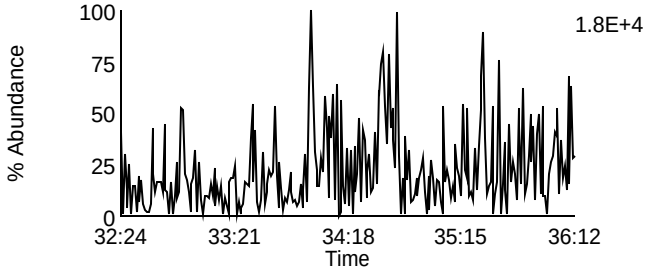
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G3 C2 - 375.8178
SAMP 10260486015 - BAL PASI-WI



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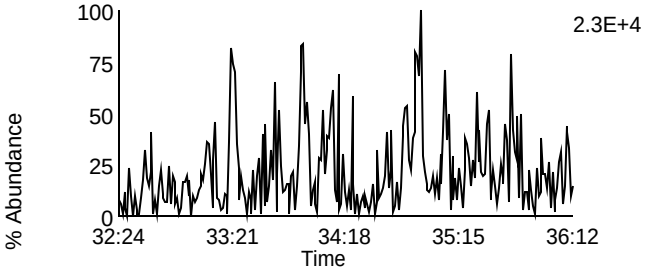
SAMP 10260486015 - BAL PASI-WI



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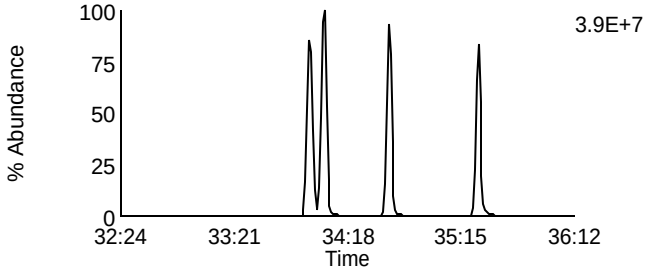
SAMP 10260486015 - BAL PASI-WI



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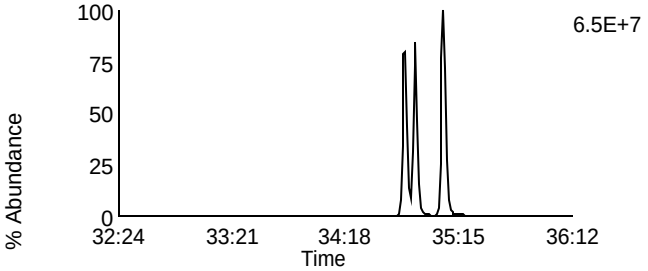
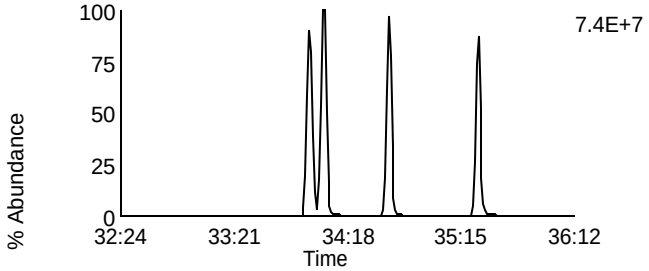
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G3 C6 - 385.861
SAMP 10260486015 - BAL PASI-WI



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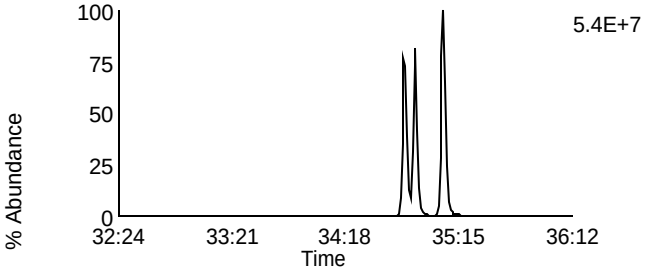
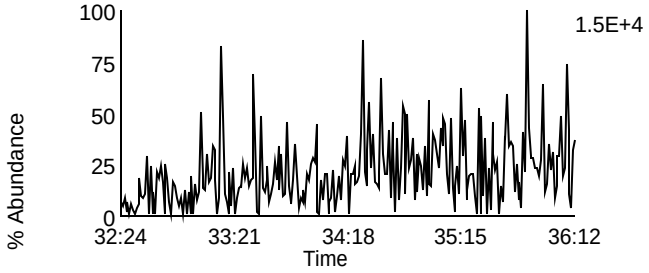
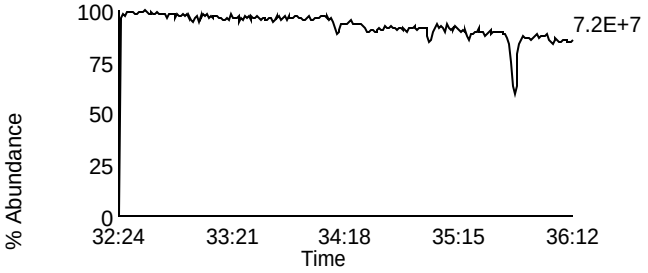
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G3 C11 - 445.7555
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G3 C3 - 380.976
SAMP 10260486015 - BAL PASI-WI

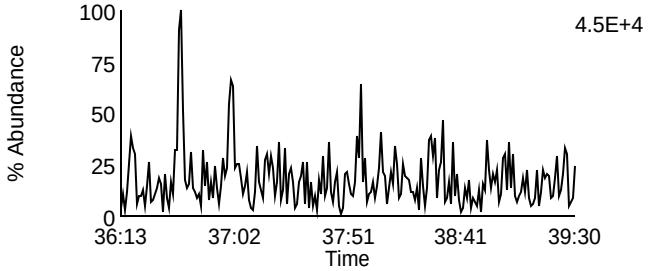


Homologue Group: Heptas

Data File Name: U140328B_13
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486015 - BAL PASI-WI

Lab Sample ID: 10260486015
Client Sample ID: MAK127L
Instrument: 10MSHR06 (U)

Data File: U140328B_13 G4 C3 - 407.7818
SAMP 10260486015 - BAL PASI-WI



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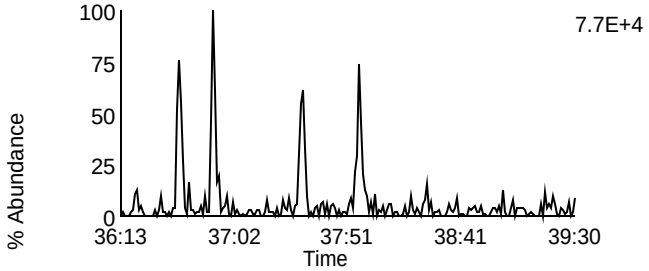
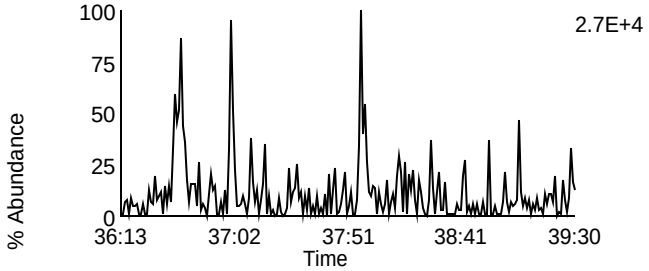
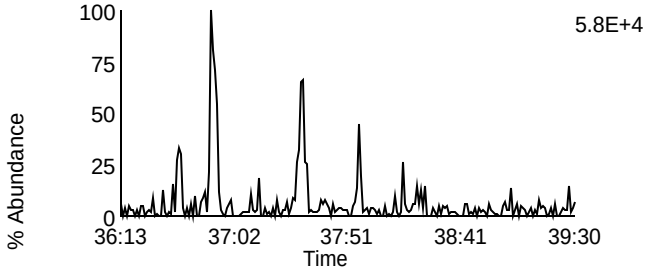
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G4 C4 - 409.7788
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G4 C9 - 425.7737
SAMP 10260486015 - BAL PASI-WI



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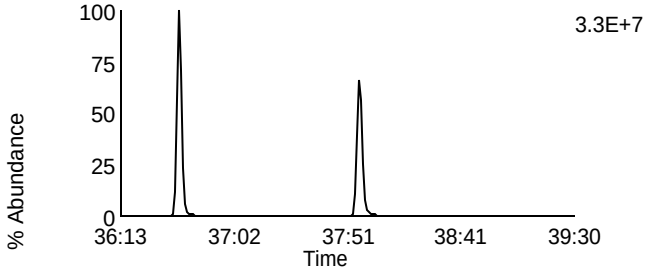
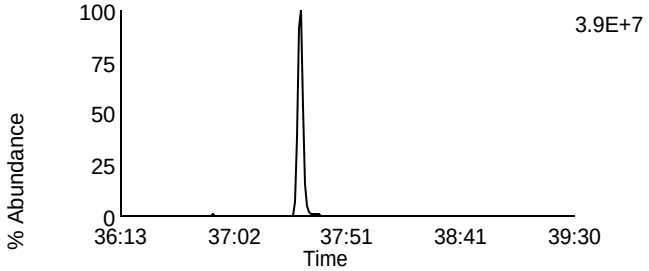
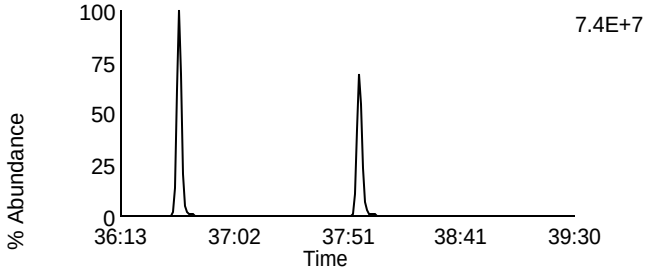
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G4 C11 - 435.8169
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G4 C7 - 419.822
SAMP 10260486015 - BAL PASI-WI



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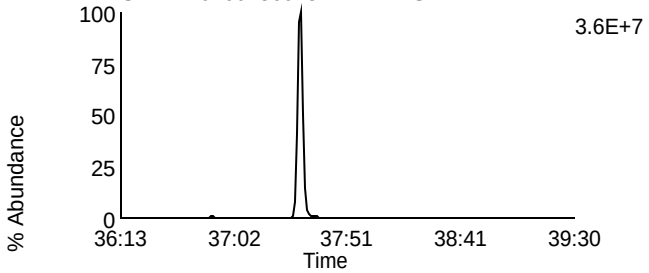
SAMP 10260486015 - BAL PASI-WI



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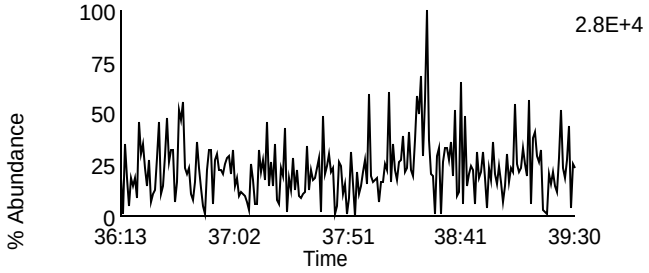
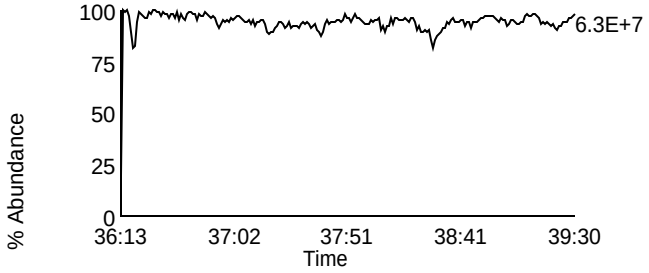
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G4 C1 - 380.976
SAMP 10260486015 - BAL PASI-WI

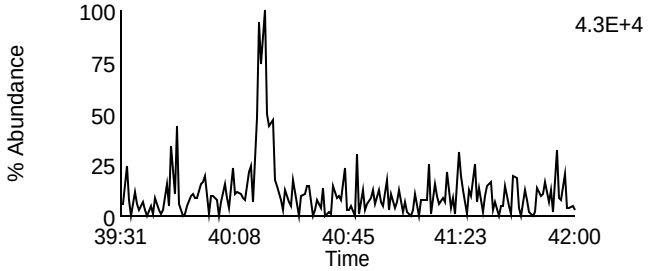


Homologue Group: Octas

Data File Name: U140328B_13
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486015 - BAL PASI-WI

Lab Sample ID: 10260486015
Client Sample ID: MAK127L
Instrument: 10MSHR06 (U)

Data File: U140328B_13 G5 C4 - 441.7428
SAMP 10260486015 - BAL PASI-WI



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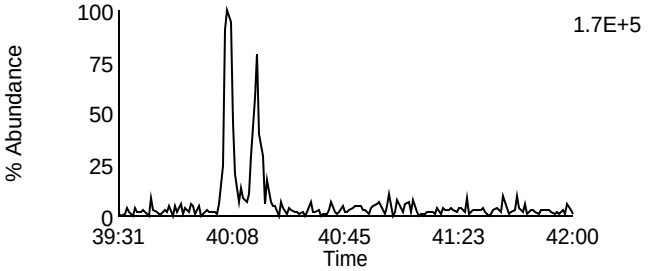
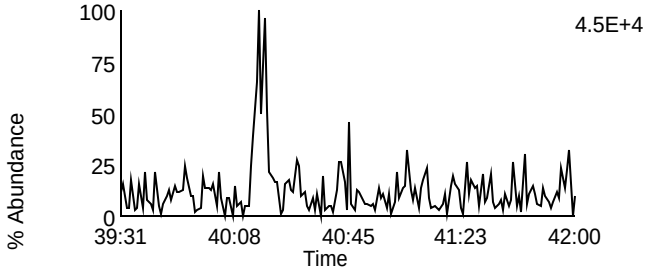
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G5 C5 - 443.7398
SAMP 10260486015 - BAL PASI-WI



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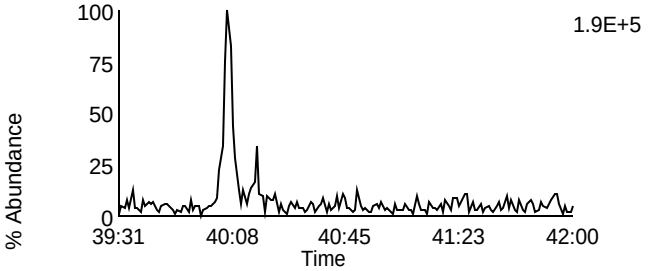
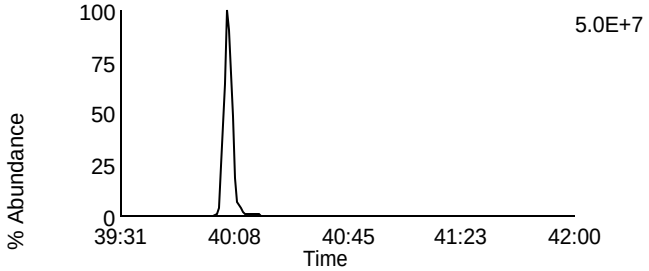
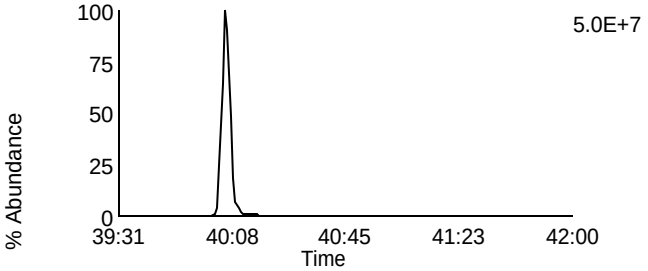
SAMP 10260486015 - BAL PASI-WI



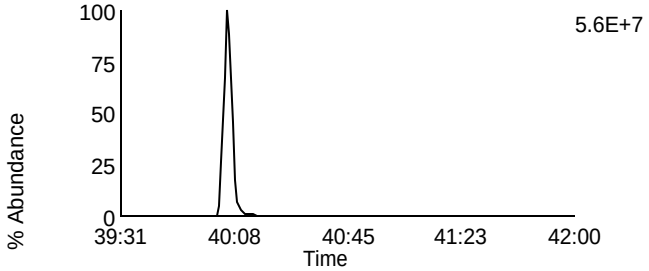
Data File: U140328B_13 G5 C11 - 469.7779
SAMP 10260486015 - BAL PASI-WI



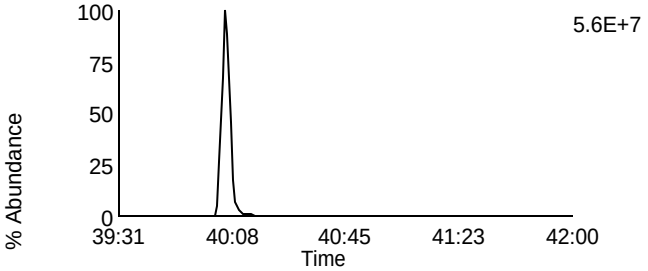
Data File: U140328B_13 G5 C11 - 469.7779
SAMP 10260486015 - BAL PASI-WI



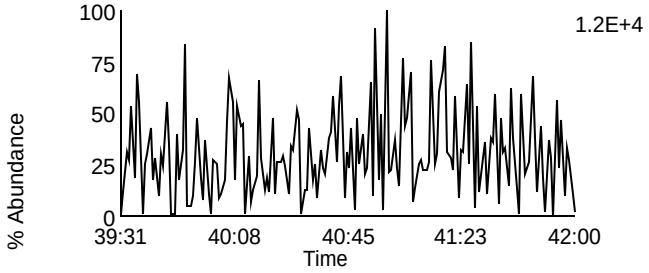
Data File: U140328B_13 G5 C12 - 471.7749
SAMP 10260486015 - BAL PASI-WI



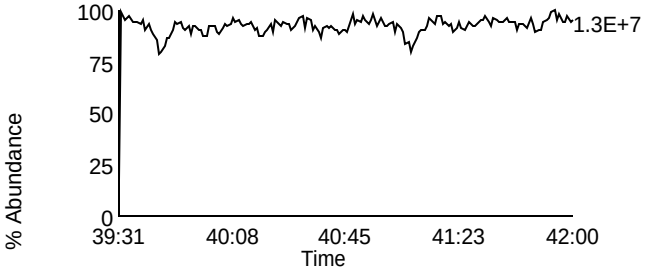
Data File: U140328B_13 G5 C12 - 471.7749
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G5 C13 - 513.6775
SAMP 10260486015 - BAL PASI-WI



Data File: U140328B_13 G5 C2 - 430.9728
SAMP 10260486015 - BAL PASI-WI

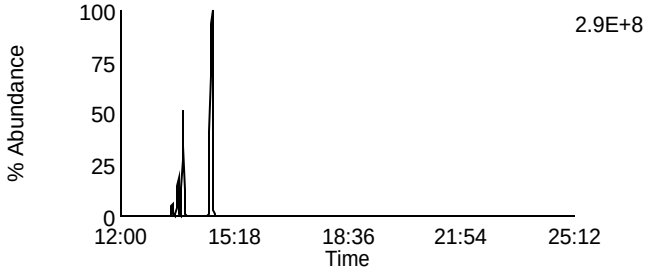


Homologue Group: Tetras

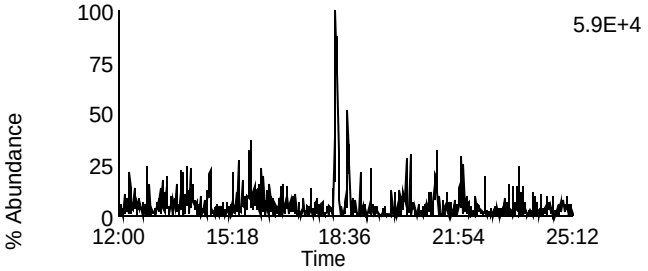
Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

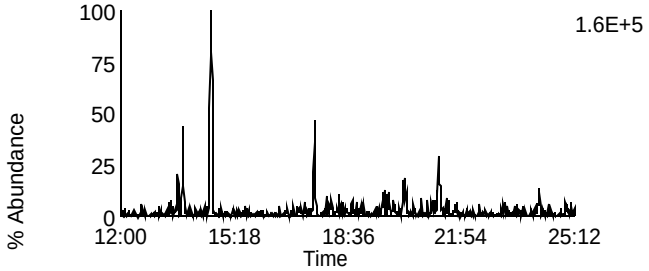
Data File: U140328B_14 G1 C1 - 303.9016
SAMP 10260486016 - BAL PASI-WI



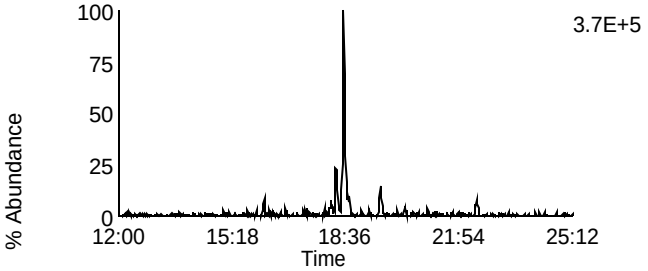
Data File: U140328B_14 G1 C7 - 319.8965
SAMP 10260486016 - BAL PASI-WI



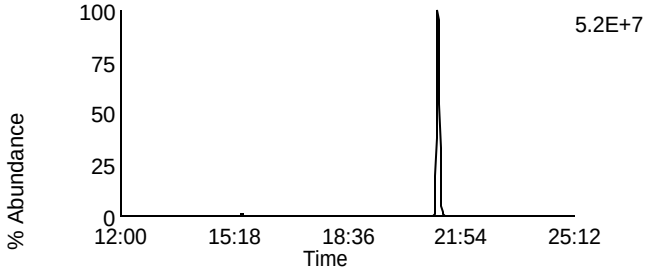
Data File: U140328B_14 G1 C2 - 305.8987
SAMP 10260486016 - BAL PASI-WI



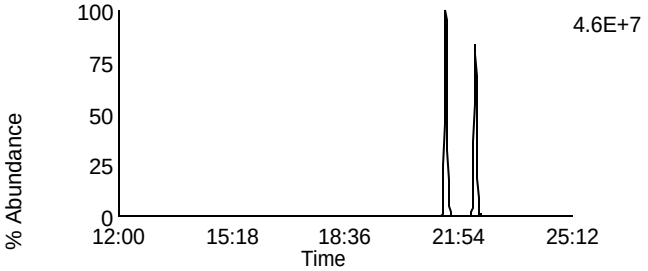
Data File: U140328B_14 G1 C8 - 321.8936
SAMP 10260486016 - BAL PASI-WI



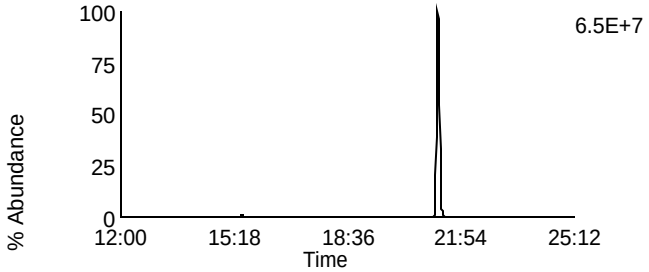
Data File: U140328B_14 G1 C3 - 315.9418
SAMP 10260486016 - BAL PASI-WI



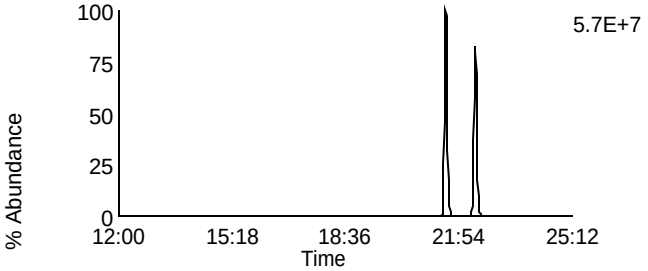
Data File: U140328B_14 G1 C10 - 331.9367
SAMP 10260486016 - BAL PASI-WI



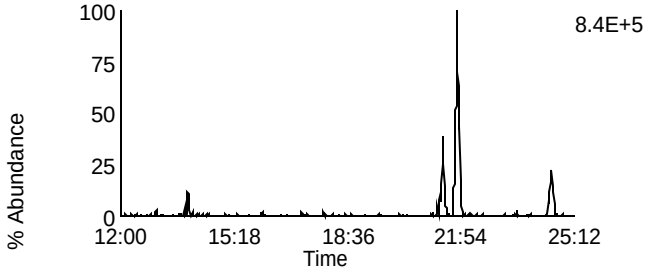
Data File: U140328B_14 G1 C4 - 317.9389
SAMP 10260486016 - BAL PASI-WI



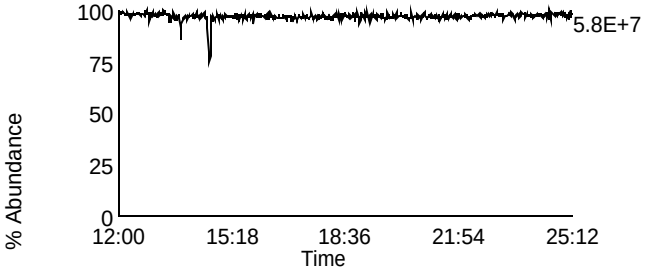
Data File: U140328B_14 G1 C11 - 333.9338
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G1 C14 - 375.8364
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G1 C5 - 318.9792
SAMP 10260486016 - BAL PASI-WI

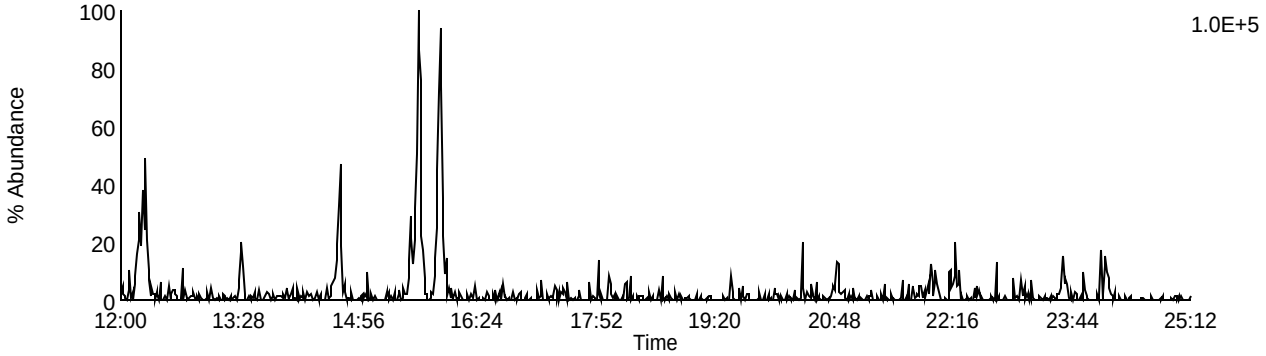


Homologue Group: Penta & Cleanup

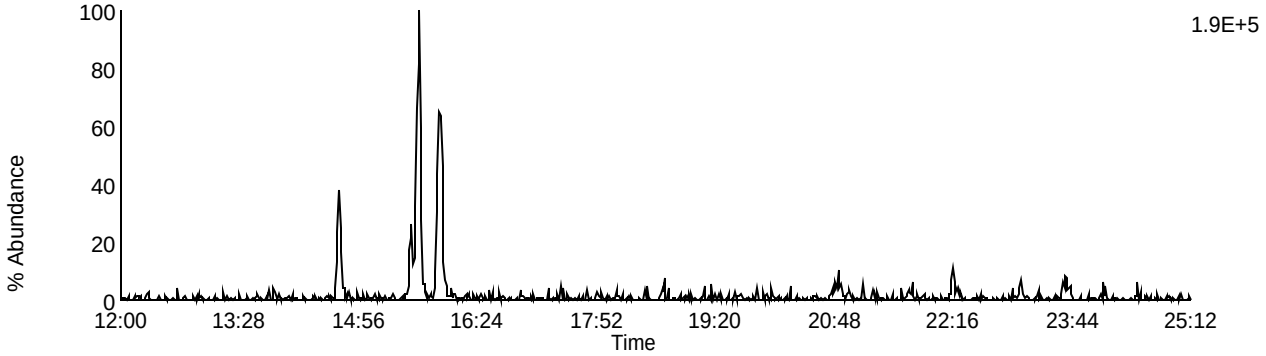
Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

Data File: U140328B_14 G1 C12 - 339.8597
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G1 C13 - 341.8567
SAMP 10260486016 - BAL PASI-WI



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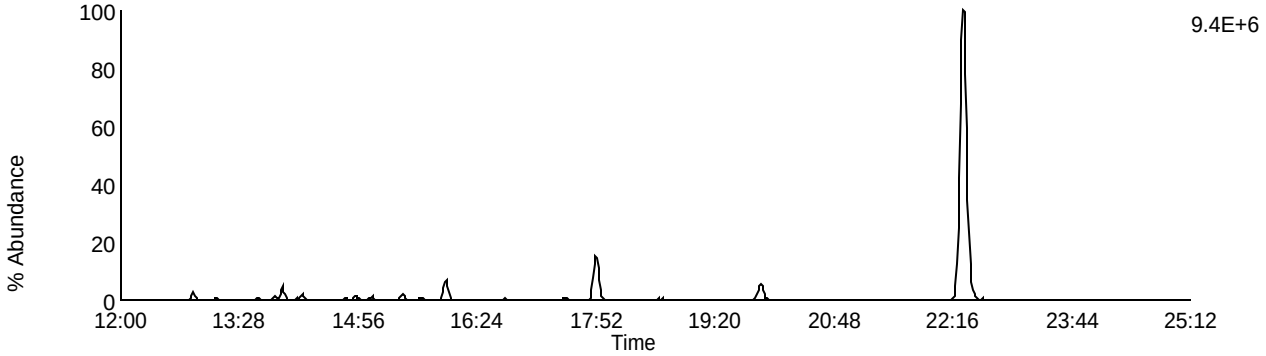
SAMP 10260486016 - BAL PASI-WI



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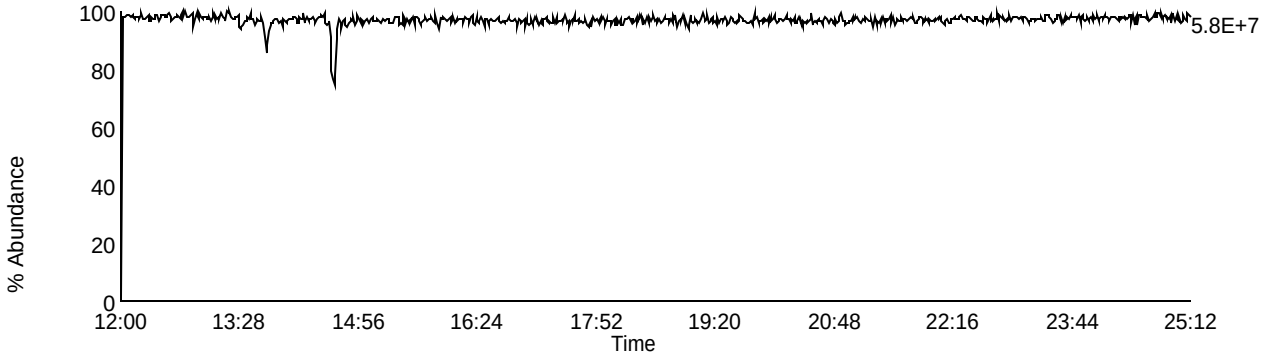
SAMP 10260486016 - BAL PASI-WI

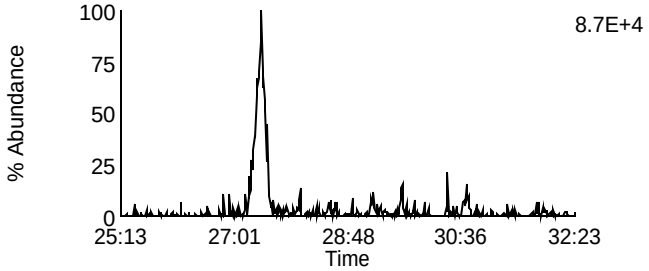


Homologue Group: Pentas

Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

Data File: U140328B_14 G2 C1 - 339.8597
SAMP 10260486016 - BAL PASI-WI



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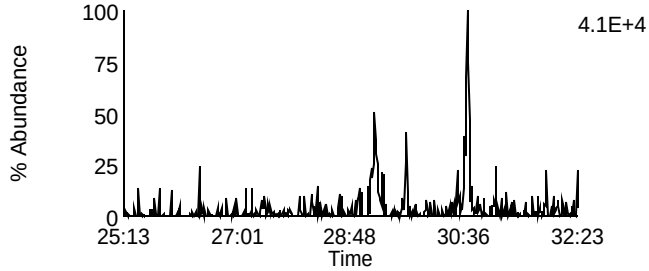
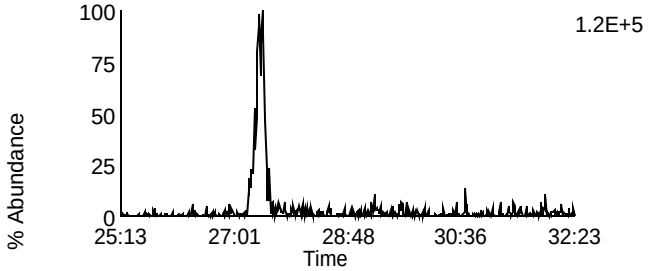
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G2 C2 - 341.8567
SAMP 10260486016 - BAL PASI-WI



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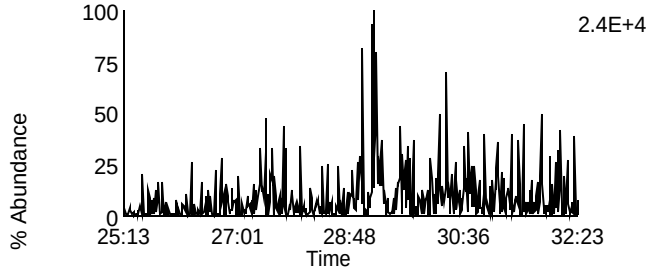
SAMP 10260486016 - BAL PASI-WI



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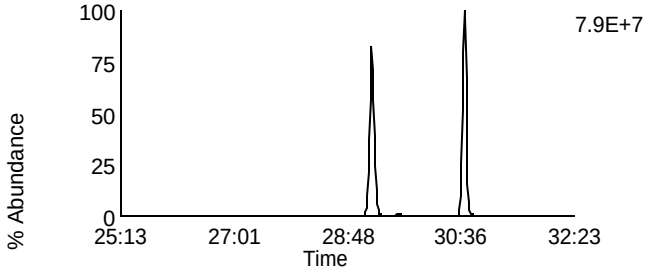
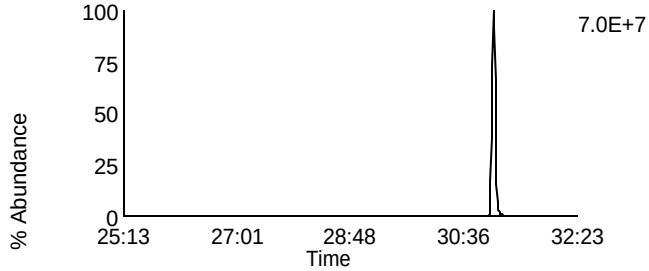
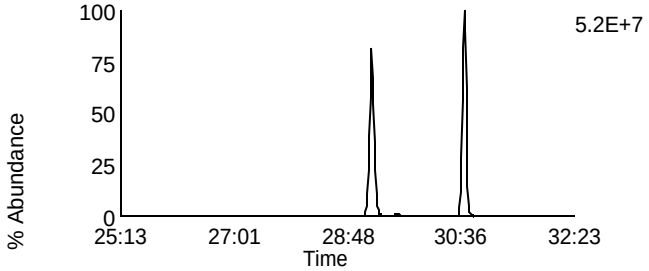
SAMP 10260486016 - BAL PASI-WI



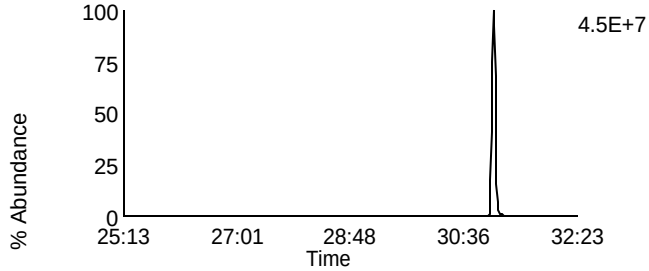
Data File: U140328B_14 G2 C10 - 367.8948
SAMP 10260486016 - BAL PASI-WI



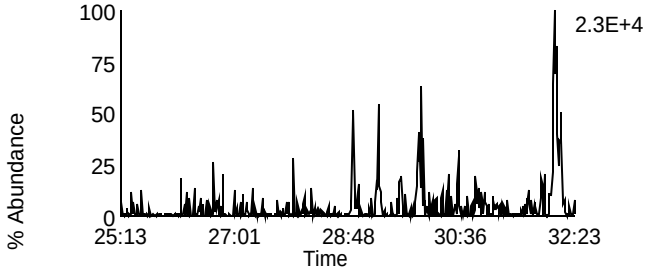
Data File: U140328B_14 G2 C5 - 353.8969
SAMP 10260486016 - BAL PASI-WI



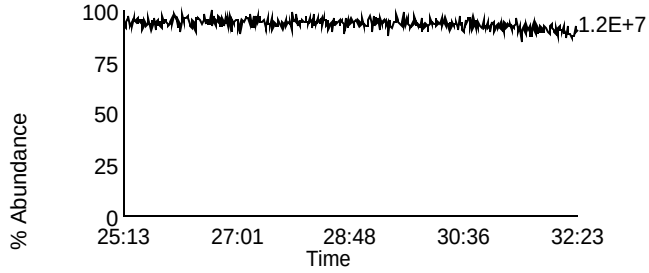
Data File: U140328B_14 G2 C11 - 369.8918
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G2 C12 - 409.7974
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G2 C6 - 354.9792
SAMP 10260486016 - BAL PASI-WI

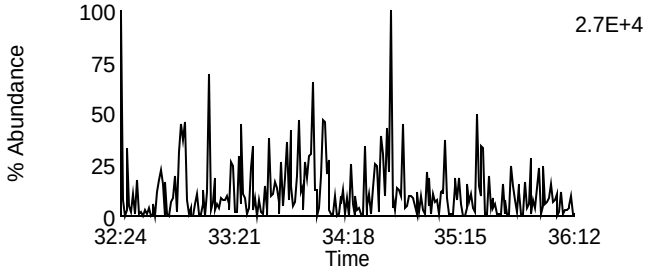


Homologue Group: Hexas

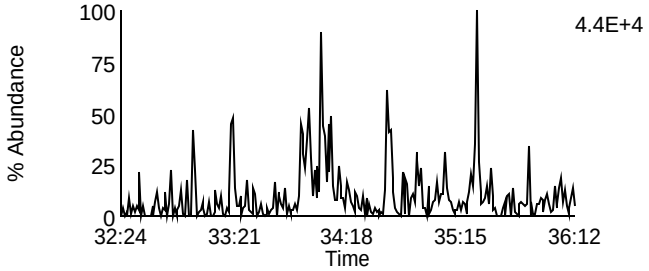
Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

Data File: U140328B_14 G3 C1 - 373.8207
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G3 C7 - 389.8156
SAMP 10260486016 - BAL PASI-WI



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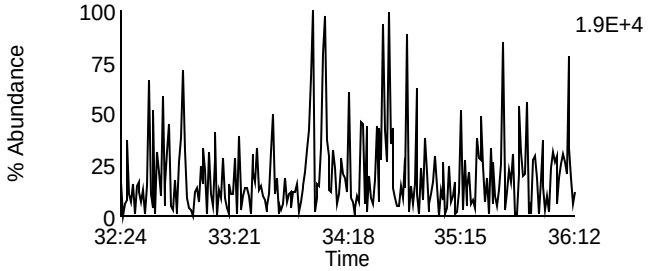
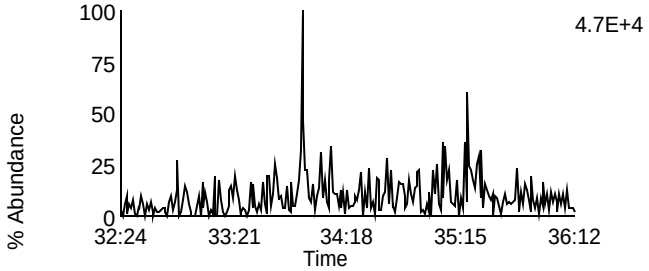
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G3 C8 - 391.8127
SAMP 10260486016 - BAL PASI-WI



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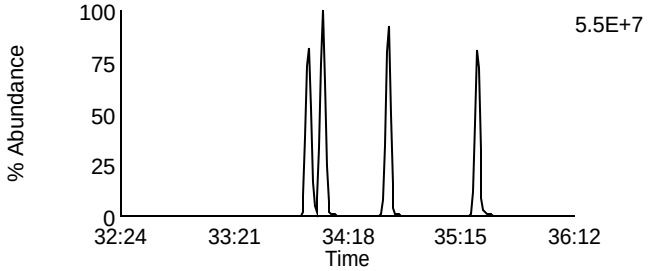
SAMP 10260486016 - BAL PASI-WI



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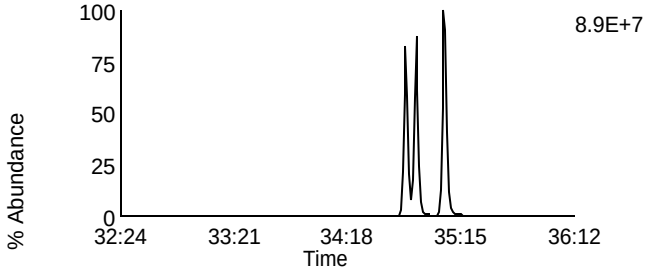
SAMP 10260486016 - BAL PASI-WI



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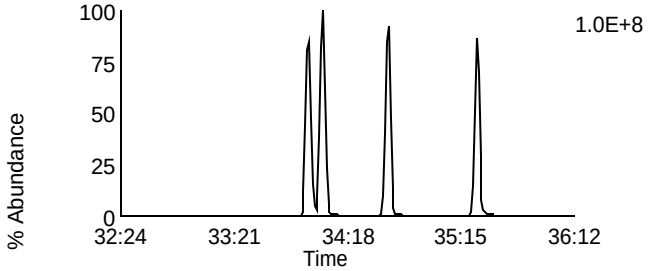
SAMP 10260486016 - BAL PASI-WI



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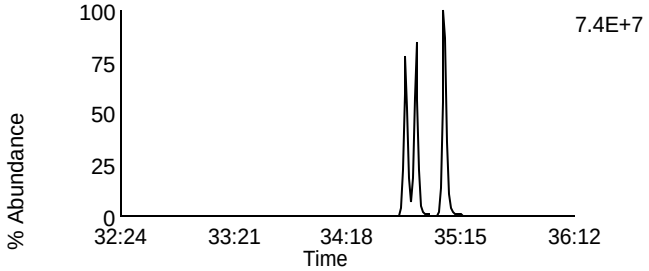

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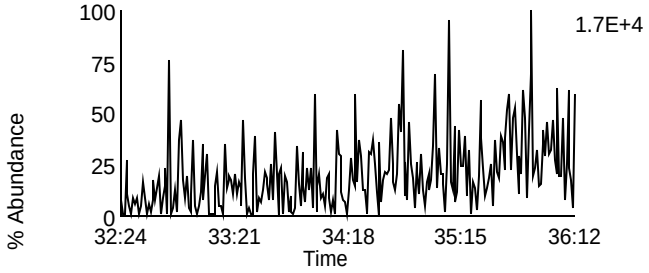
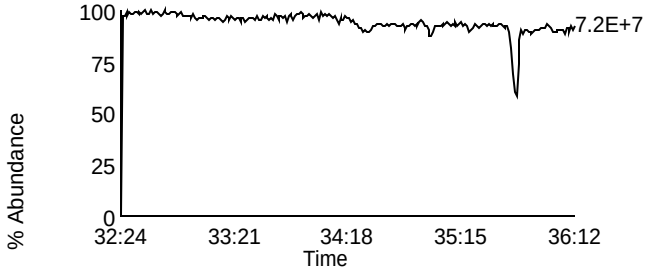
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G3 C3 - 380.976
SAMP 10260486016 - BAL PASI-WI

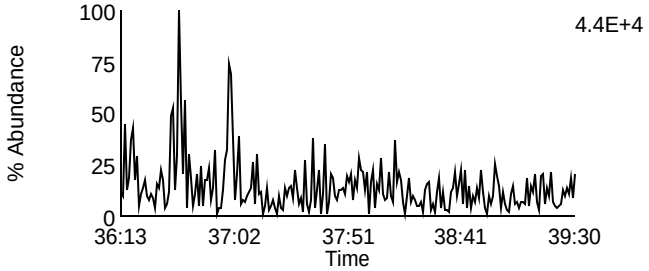


Homologue Group: Heptas

Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

Data File: U140328B_14 G4 C3 - 407.7818
SAMP 10260486016 - BAL PASI-WI



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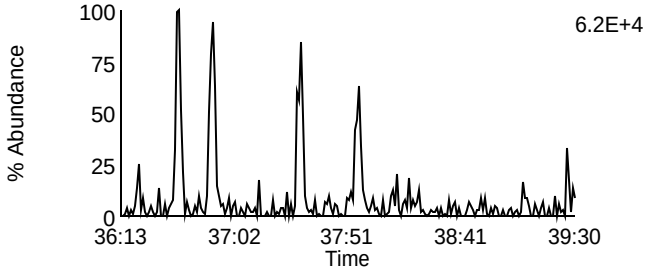
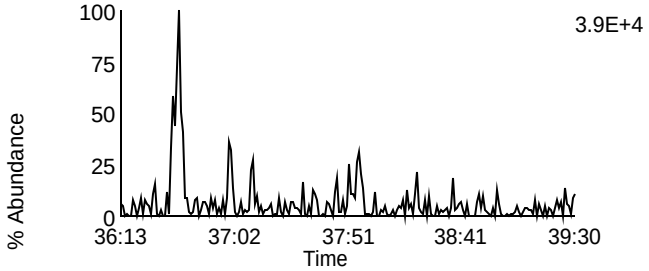


Data File: U140328B_14 G4 C4 - 409.7788
SAMP 10260486016 - BAL PASI-WI



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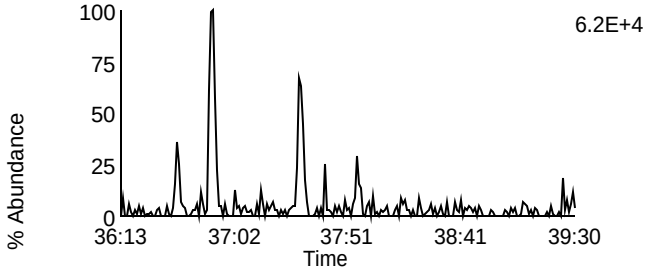
SAMP 10260486016 - BAL PASI-WI



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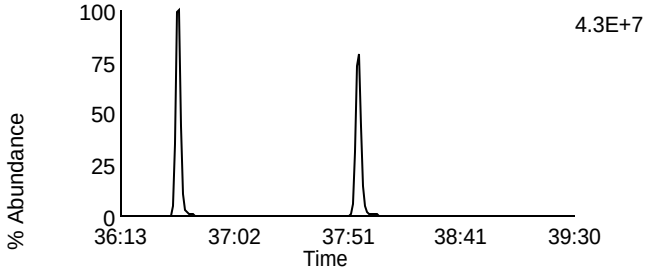
SAMP 10260486016 - BAL PASI-WI



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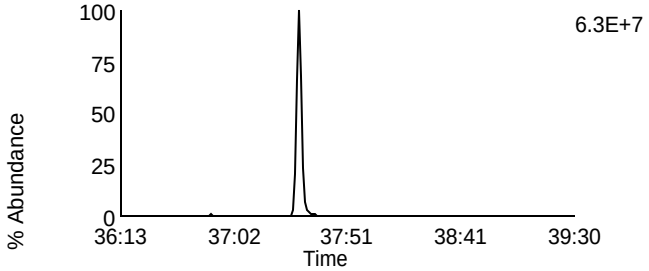
SAMP 10260486016 - BAL PASI-WI



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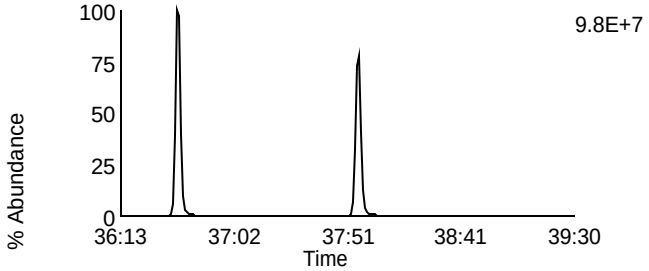
SAMP 10260486016 - BAL PASI-WI



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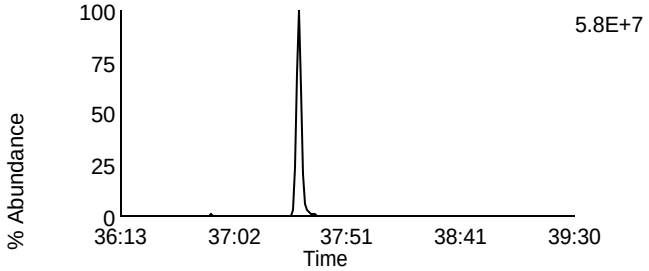
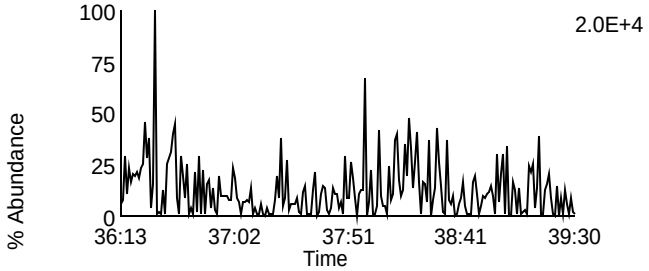
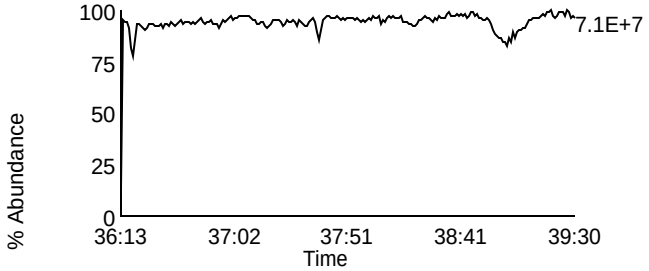
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G4 C13 - 479.7165
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G4 C1 - 380.976
SAMP 10260486016 - BAL PASI-WI

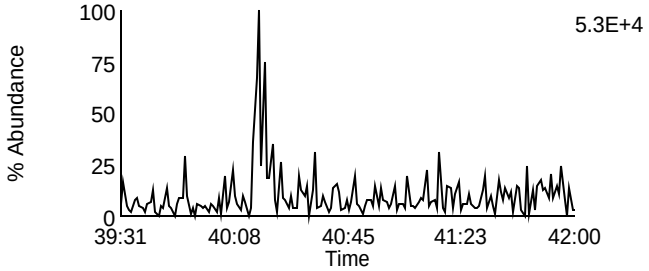


Homologue Group: Octas

Data File Name: U140328B_14
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486016 - BAL PASI-WI

Lab Sample ID: 10260486016
Client Sample ID: MAK128L
Instrument: 10MSHR06 (U)

Data File: U140328B_14 G5 C4 - 441.7428
SAMP 10260486016 - BAL PASI-WI



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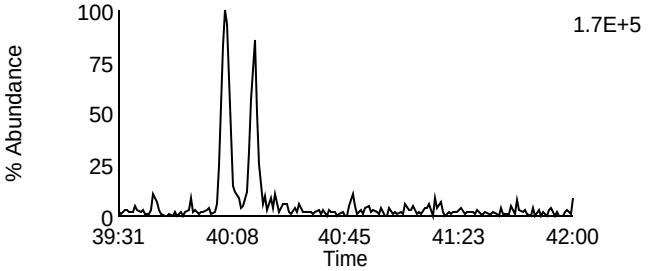
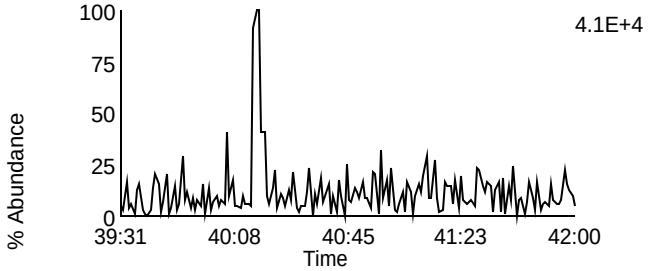
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G5 C5 - 443.7398
SAMP 10260486016 - BAL PASI-WI



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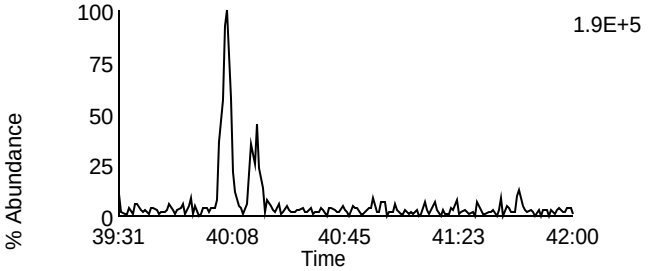
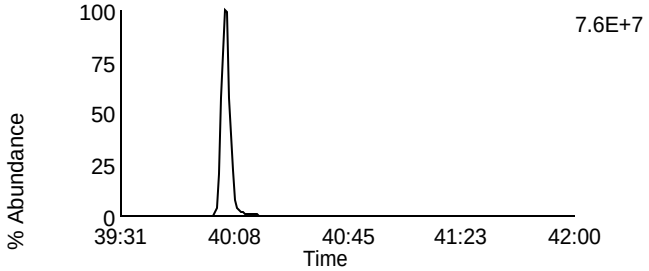
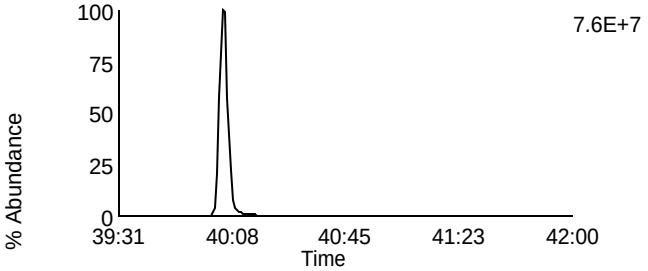
SAMP 10260486016 - BAL PASI-WI



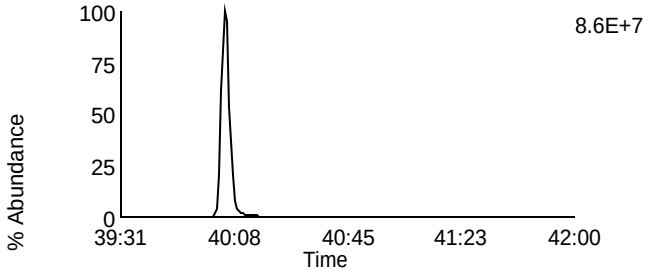
Data File: U140328B_14 G5 C11 - 469.7779
SAMP 10260486016 - BAL PASI-WI



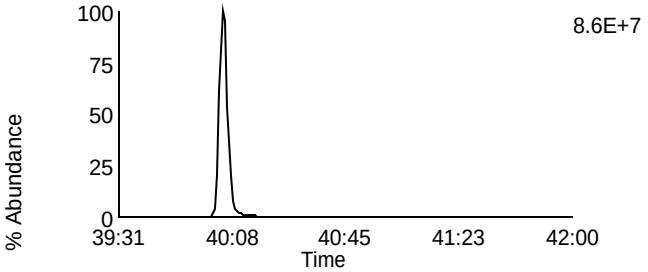
Data File: U140328B_14 G5 C11 - 469.7779
SAMP 10260486016 - BAL PASI-WI



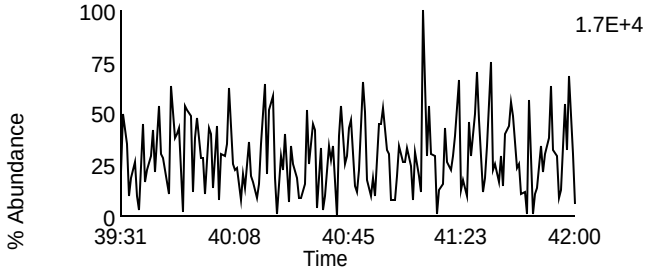
Data File: U140328B_14 G5 C12 - 471.7749
SAMP 10260486016 - BAL PASI-WI



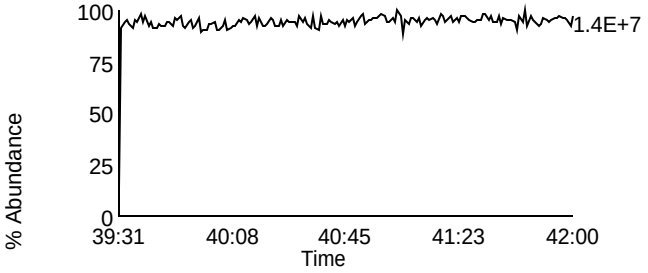
Data File: U140328B_14 G5 C12 - 471.7749
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G5 C13 - 513.6775
SAMP 10260486016 - BAL PASI-WI



Data File: U140328B_14 G5 C2 - 430.9728
SAMP 10260486016 - BAL PASI-WI

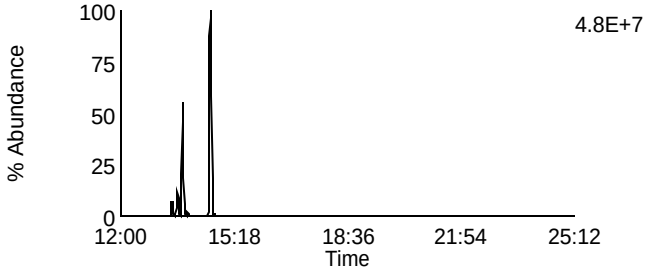


Homologue Group: Tetras

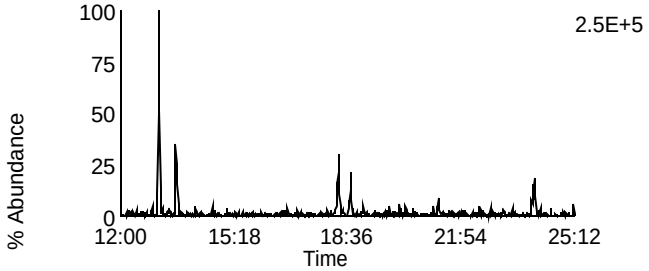
Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G1 C1 - 303.9016
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G1 C7 - 319.8965
SAMP 10260486017 - BAL PASI-WI



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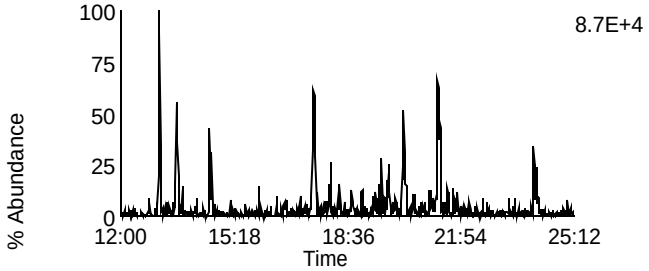
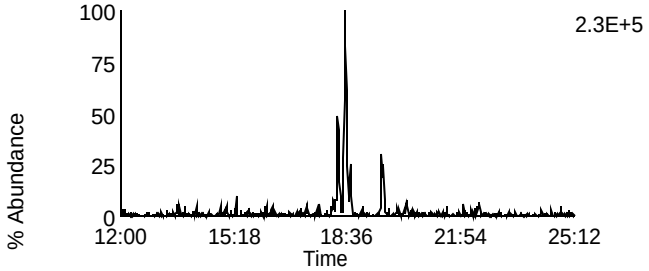
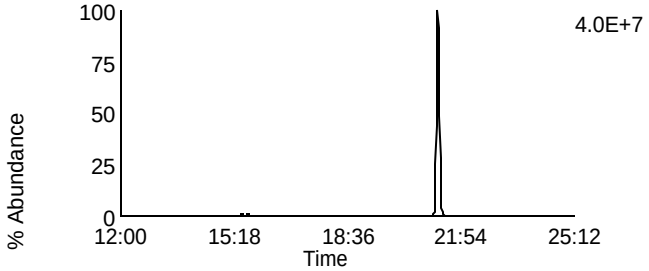
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G1 C8 - 321.8936
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G1 C3 - 315.9418
SAMP 10260486017 - BAL PASI-WI



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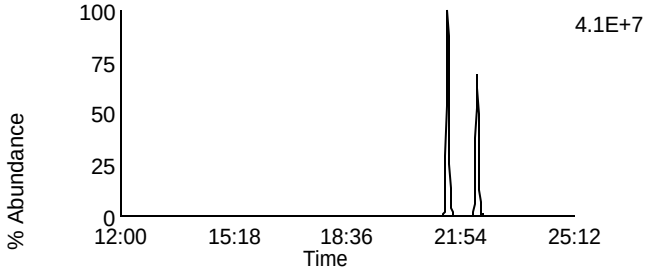
SAMP 10260486017 - BAL PASI-WI



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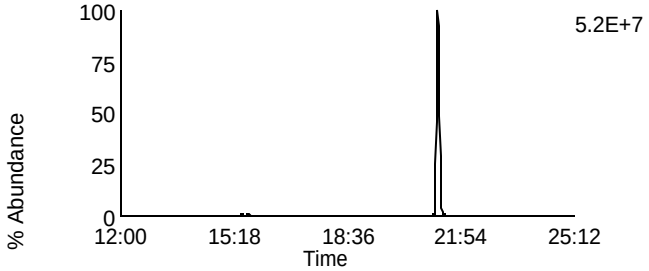
SAMP 10260486017 - BAL PASI-WI



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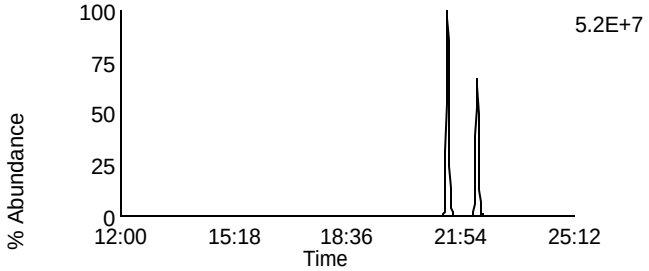
SAMP 10260486017 - BAL PASI-WI



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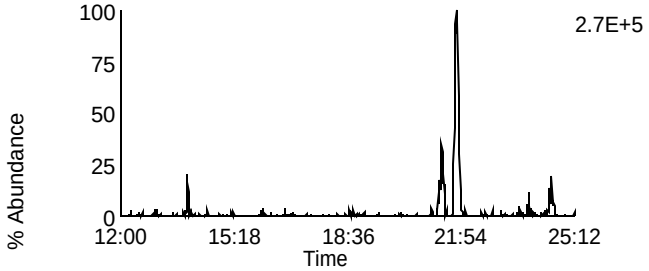
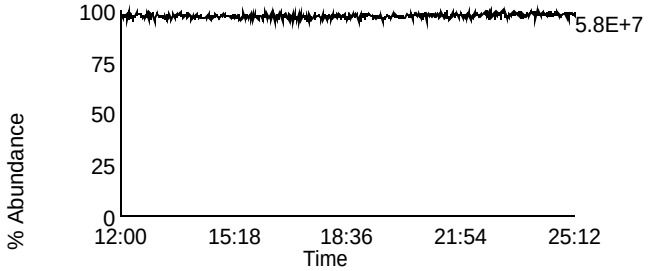
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G1 C5 - 318.9792
SAMP 10260486017 - BAL PASI-WI

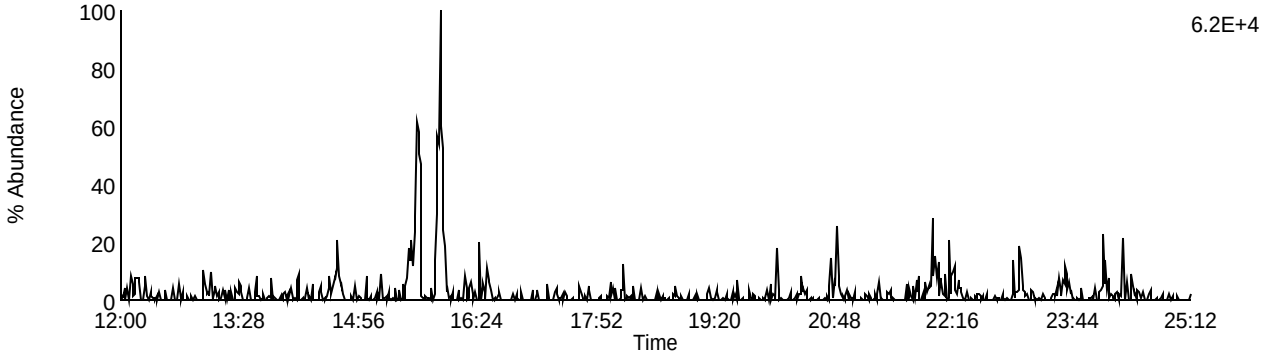


Homologue Group: Penta & Cleanup

Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G1 C12 - 339.8597
SAMP 10260486017 - BAL PASI-WI



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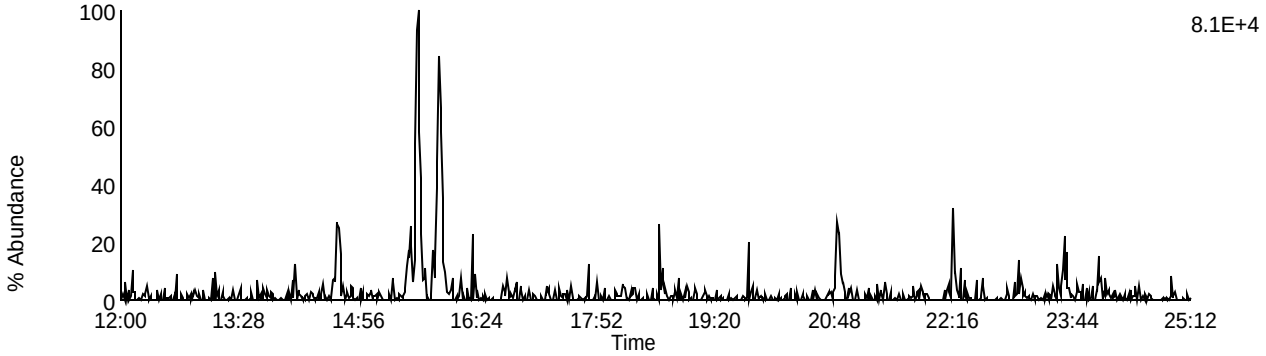
SAMP 10260486017 - BAL PASI-WI



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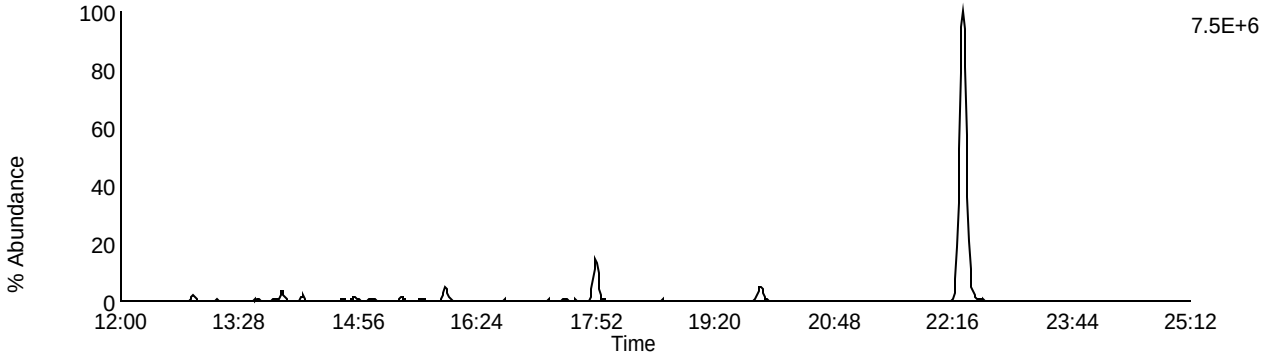
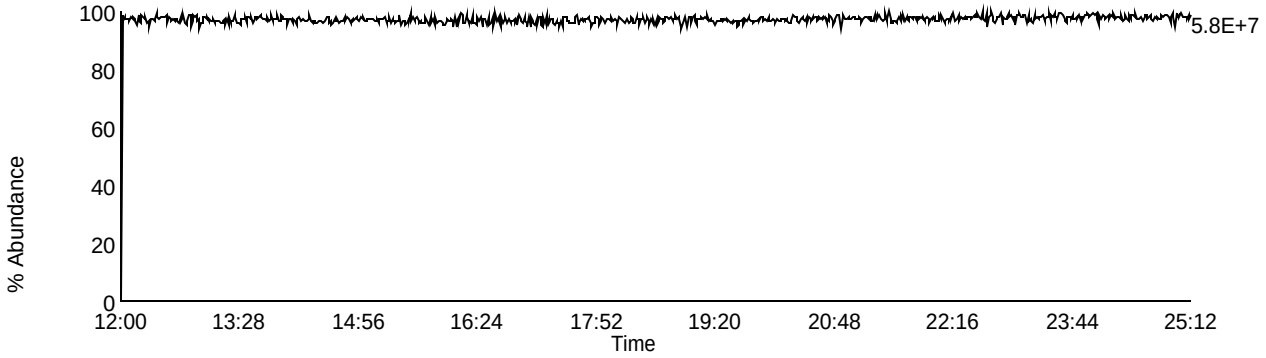
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G1 C5 - 318.9792
SAMP 10260486017 - BAL PASI-WI

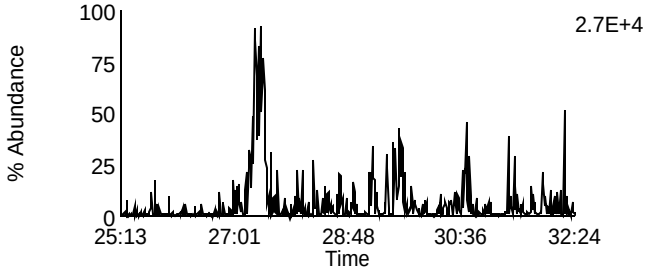


Homologue Group: Pentas

Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G2 C1 - 339.8597
SAMP 10260486017 - BAL PASI-WI



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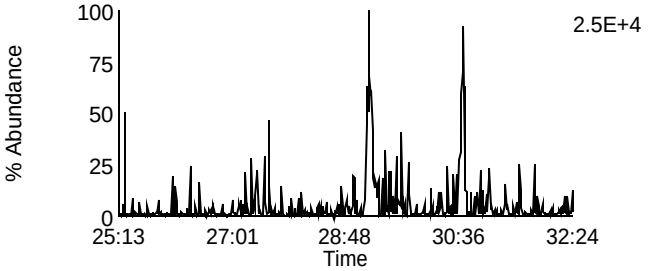
SAMP 10260486017 - BAL PASI-WI



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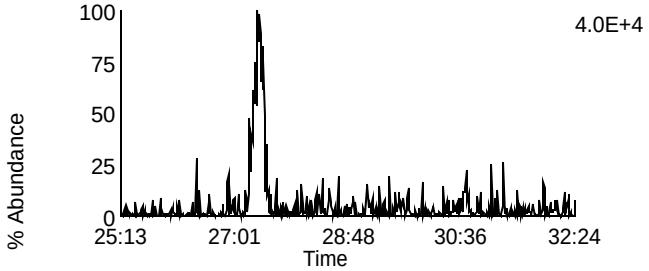
SAMP 10260486017 - BAL PASI-WI



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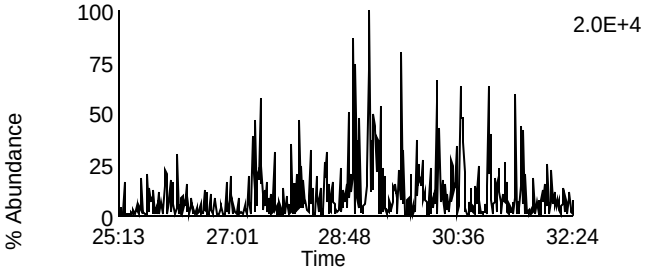
SAMP 10260486017 - BAL PASI-WI



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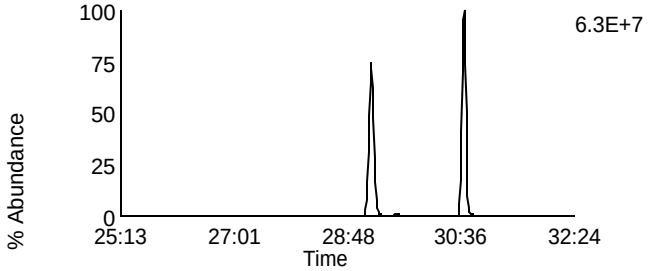
SAMP 10260486017 - BAL PASI-WI



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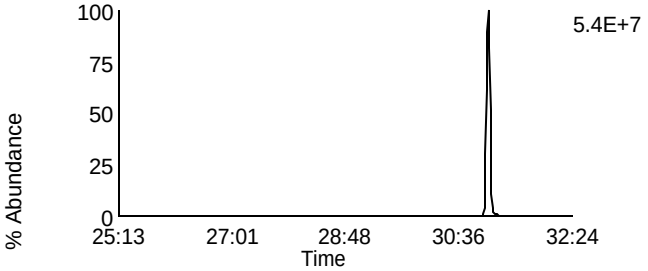
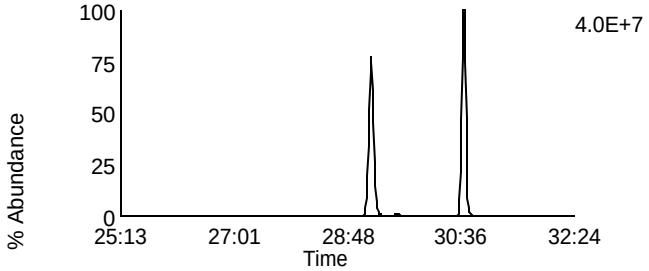
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G2 C5 - 353.8969
SAMP 10260486017 - BAL PASI-WI



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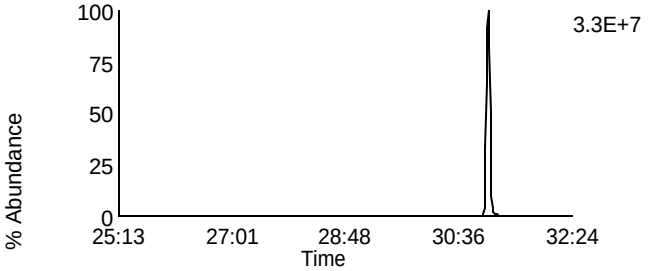
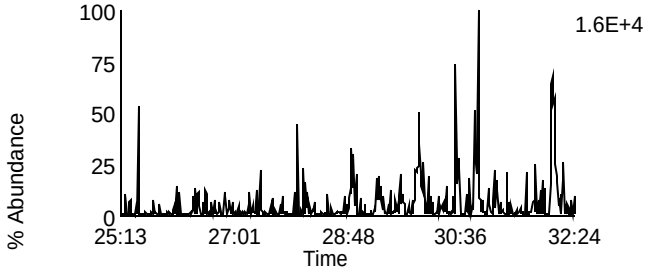
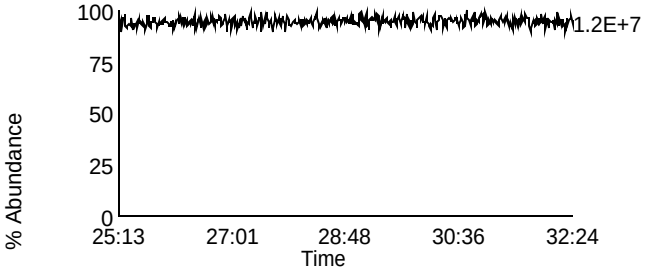
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G2 C12 - 409.7974
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G2 C6 - 354.9792
SAMP 10260486017 - BAL PASI-WI

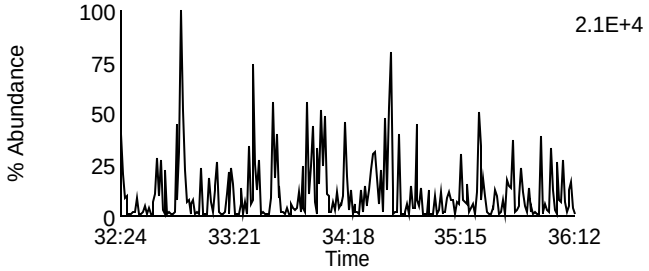


Homologue Group: Hexas

Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G3 C1 - 373.8207
SAMP 10260486017 - BAL PASI-WI



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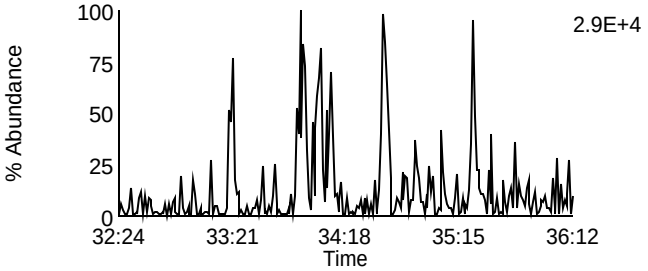
SAMP 10260486017 - BAL PASI-WI



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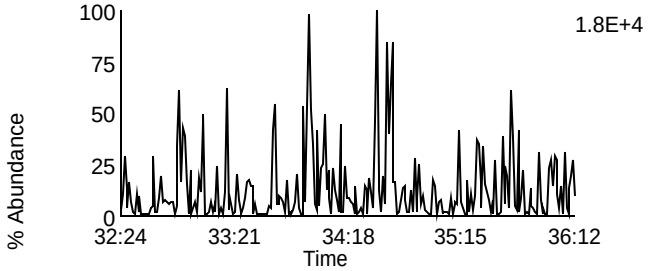
SAMP 10260486017 - BAL PASI-WI



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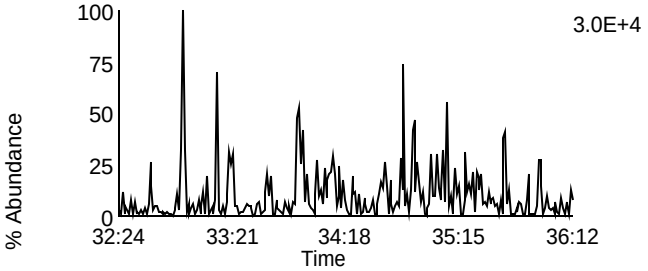
SAMP 10260486017 - BAL PASI-WI



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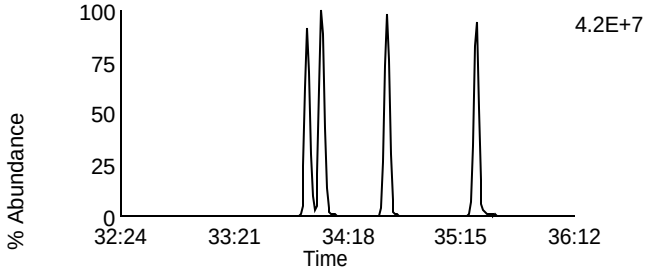
SAMP 10260486017 - BAL PASI-WI



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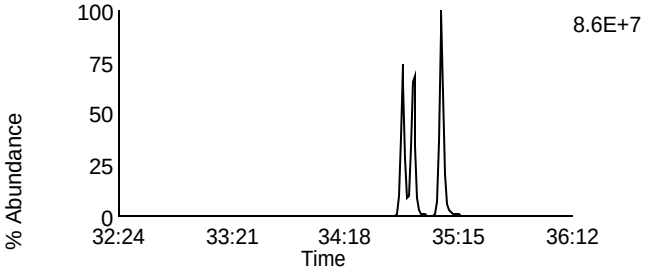
SAMP 10260486017 - BAL PASI-WI



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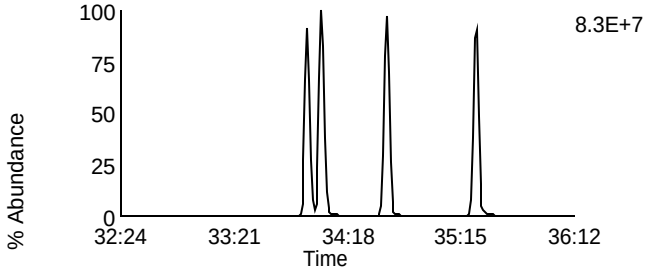
SAMP 10260486017 - BAL PASI-WI



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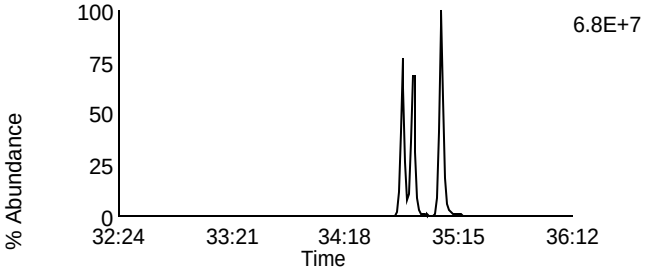

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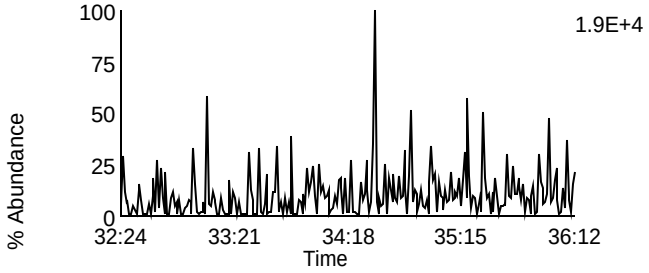
SAMP 10260486017 - BAL PASI-WI



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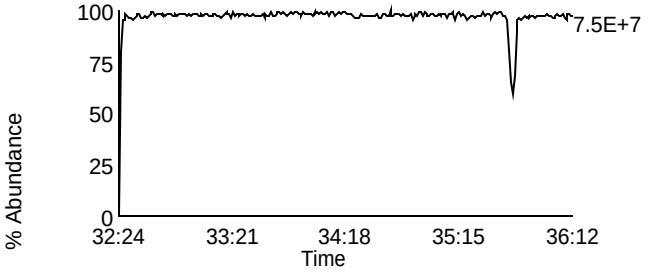
SAMP 10260486017 - BAL PASI-WI

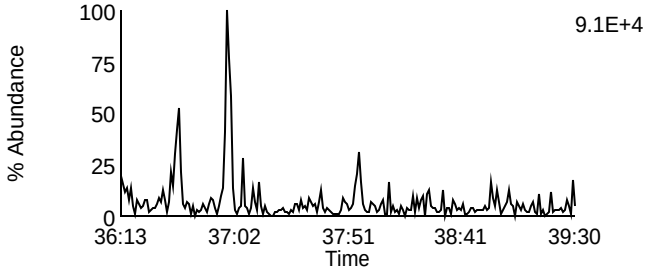


Homologue Group: Heptas

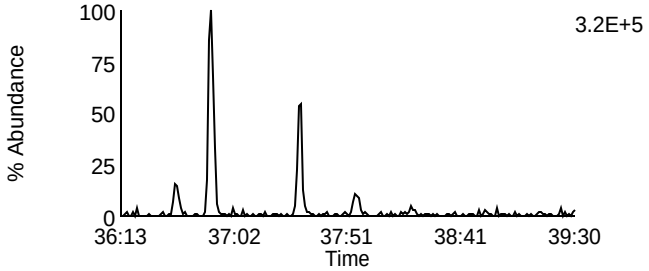
Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G4 C3 - 407.7818
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G4 C8 - 423.7767
SAMP 10260486017 - BAL PASI-WI



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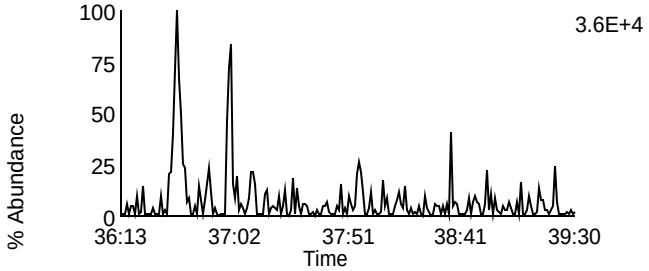
SAMP 10260486017 - BAL PASI-WI



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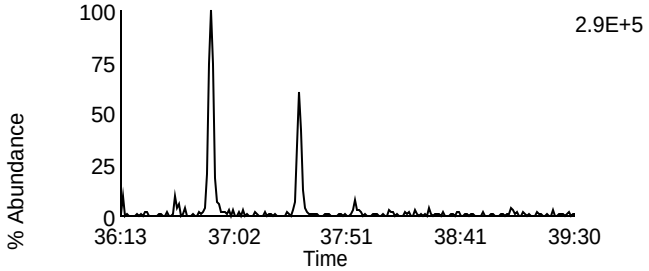
SAMP 10260486017 - BAL PASI-WI



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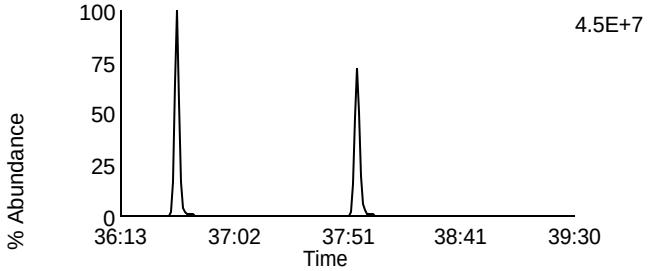
SAMP 10260486017 - BAL PASI-WI



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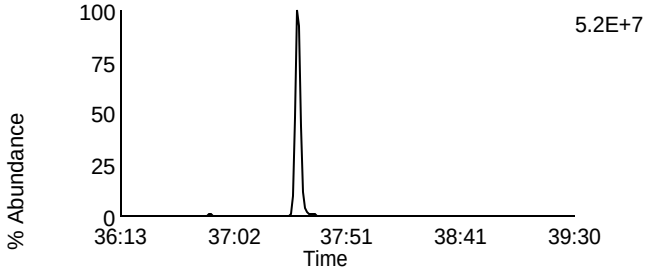
SAMP 10260486017 - BAL PASI-WI



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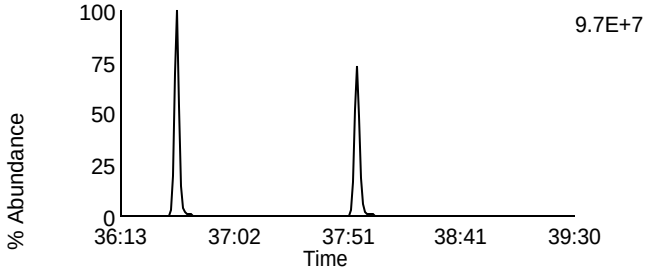
SAMP 10260486017 - BAL PASI-WI



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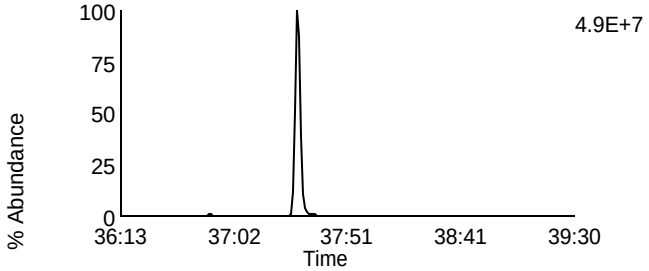
SAMP 10260486017 - BAL PASI-WI



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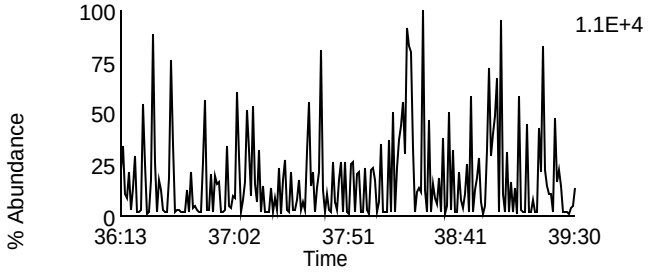
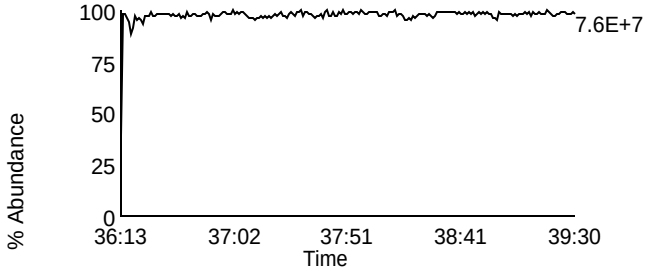
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G4 C1 - 380.976
SAMP 10260486017 - BAL PASI-WI

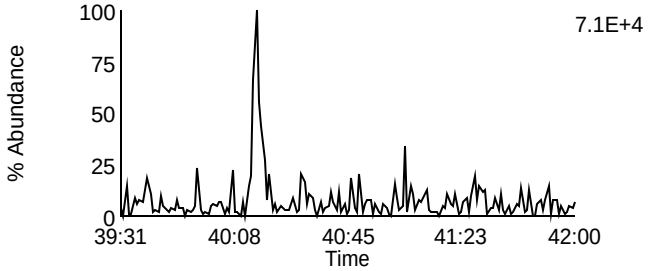


Homologue Group: Octas

Data File Name: U140328B_15
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486017 - BAL PASI-WI

Lab Sample ID: 10260486017
Client Sample ID: MAK116L
Instrument: 10MSHR06 (U)

Data File: U140328B_15 G5 C4 - 441.7428
SAMP 10260486017 - BAL PASI-WI



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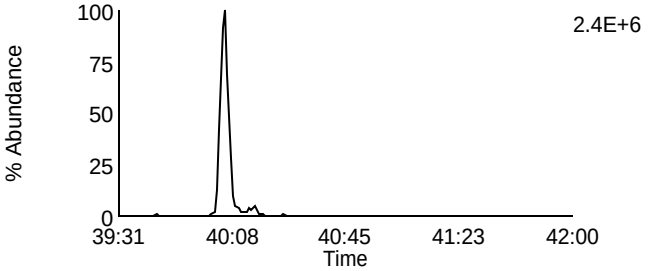

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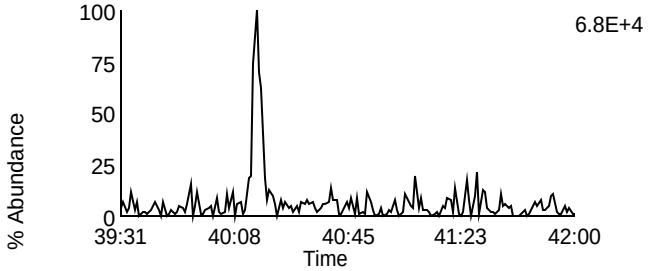
SAMP 10260486017 - BAL PASI-WI



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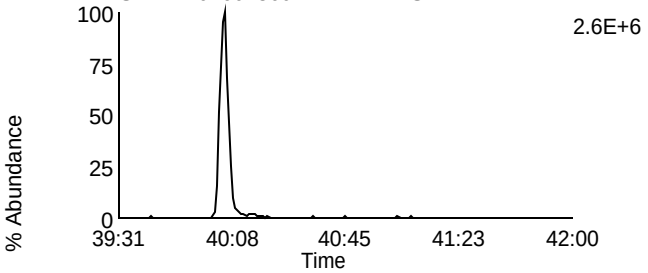
SAMP 10260486017 - BAL PASI-WI



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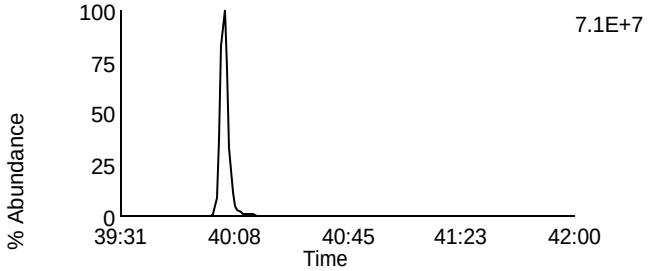
SAMP 10260486017 - BAL PASI-WI



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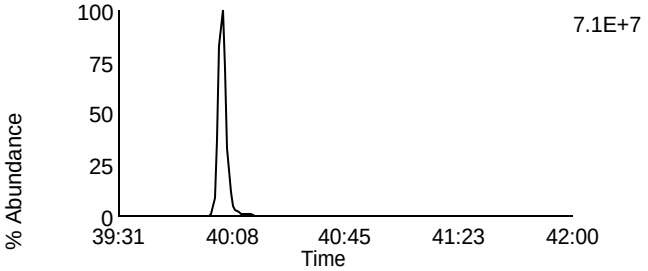
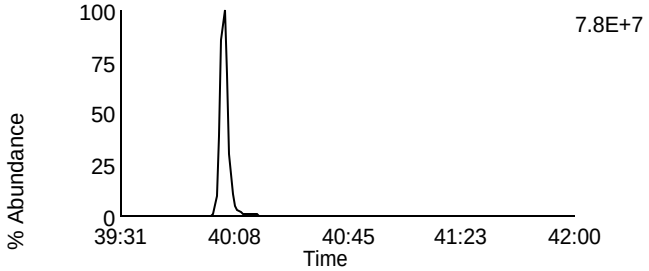
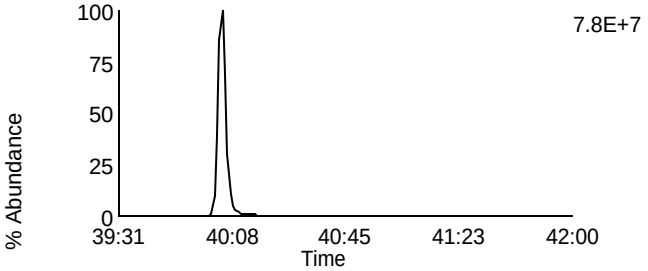
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G5 C12 - 471.7749
SAMP 10260486017 - BAL PASI-WI



Data File: U140328B_15 G5 C12 - 471.7749
SAMP 10260486017 - BAL PASI-WI



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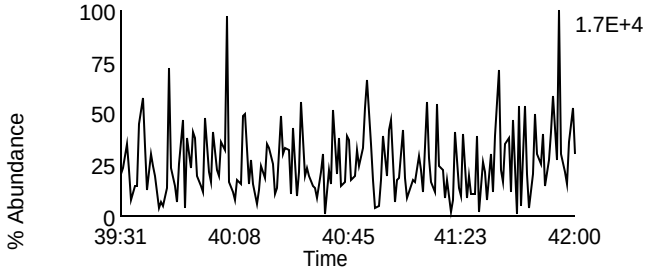
SAMP 10260486017 - BAL PASI-WI



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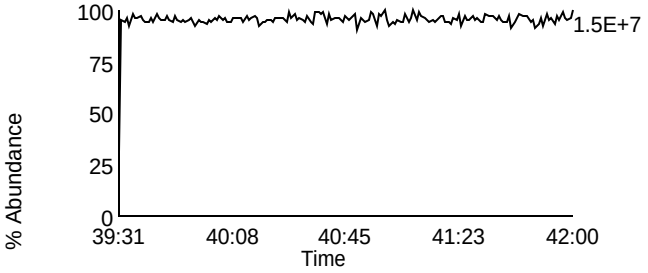
SAMP 10260486017 - BAL PASI-WI

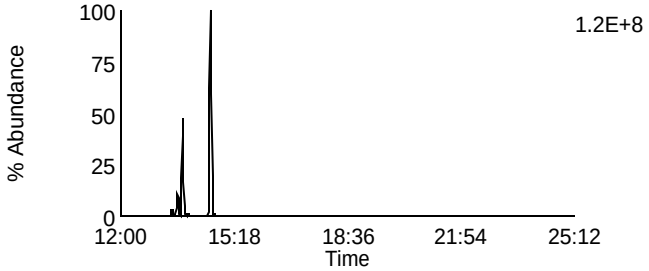


Homologue Group: Tetras

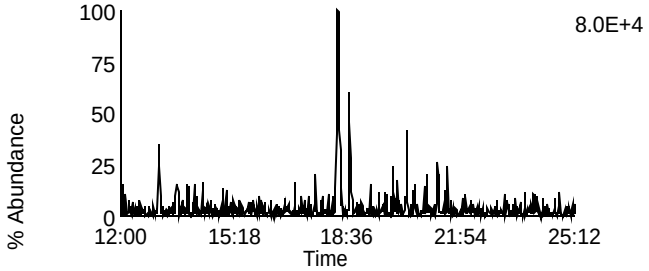
Data File Name: U140328B_16
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486018 - BAL PASI-WI

Lab Sample ID: 10260486018
Client Sample ID: MAK117L
Instrument: 10MSHR06 (U)

Data File: U140328B_16 G1 C1 - 303.9016
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G1 C7 - 319.8965
SAMP 10260486018 - BAL PASI-WI



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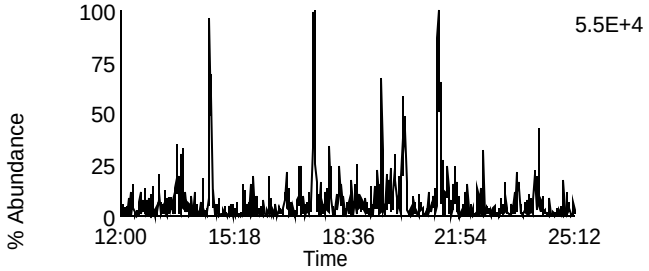

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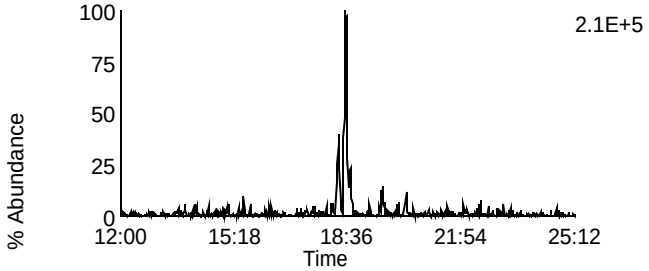
SAMP 10260486018 - BAL PASI-WI



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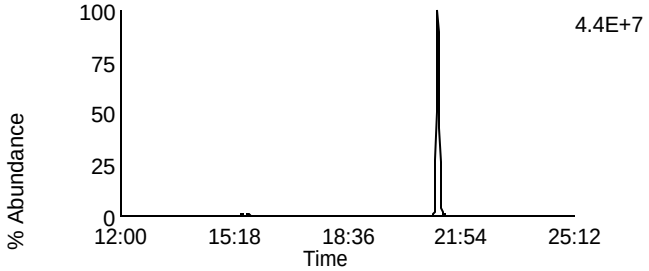
SAMP 10260486018 - BAL PASI-WI



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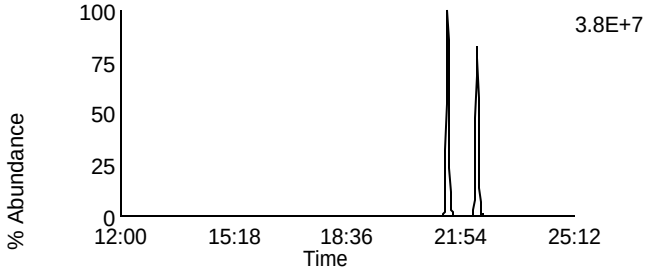
SAMP 10260486018 - BAL PASI-WI



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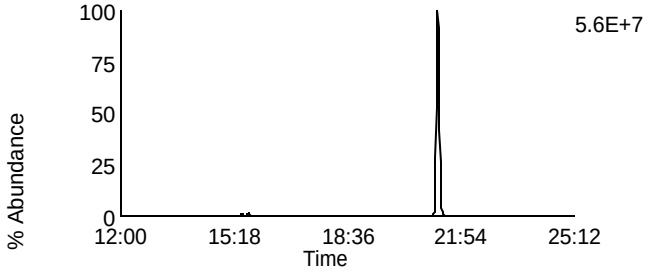
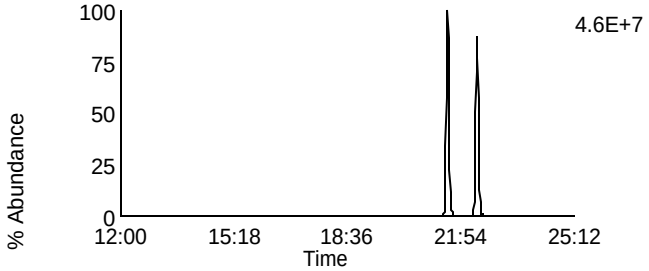
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G1 C11 - 333.9338
SAMP 10260486018 - BAL PASI-WI



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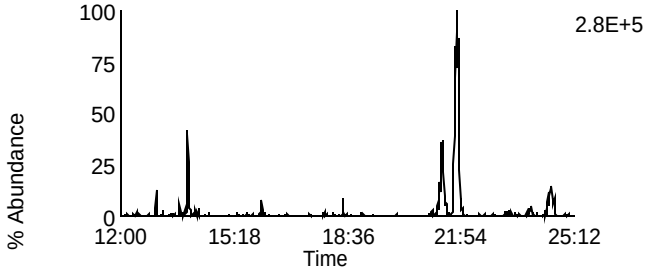
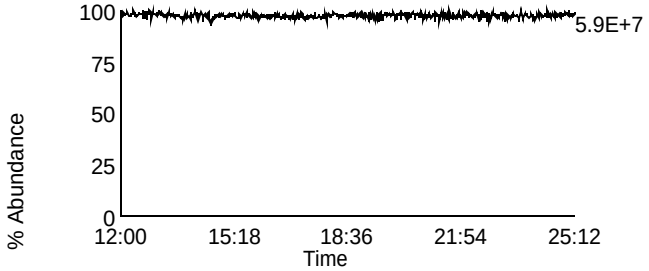
SAMP 10260486018 - BAL PASI-WI



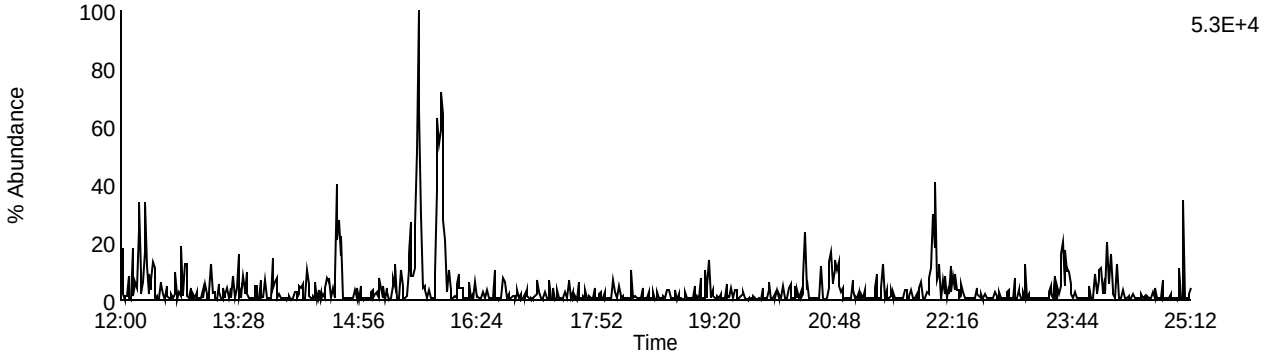
Data File: U140328B_16 G1 C5 - 318.9792
SAMP 10260486018 - BAL PASI-WI



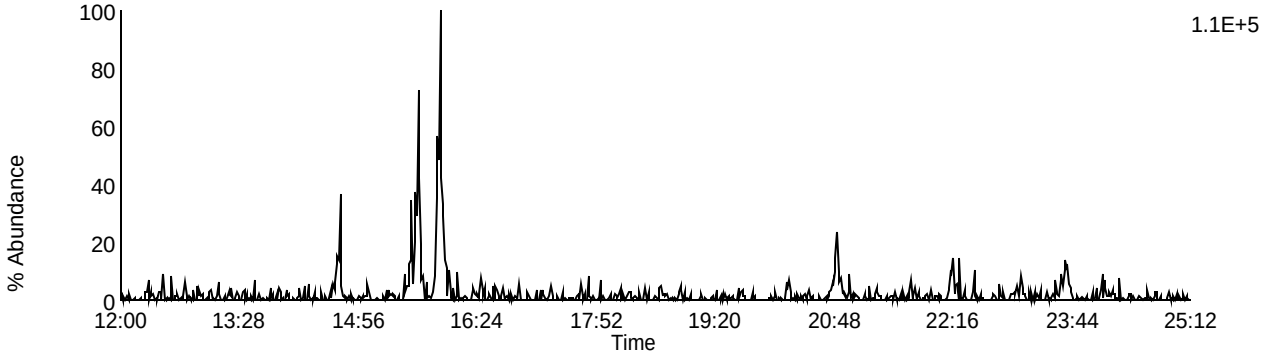
Homologue Group: Penta & Cleanup

Data File Name: U140328B_16	Lab Sample ID: 10260486018
Date Acquired: 3/29/2014	Client Sample ID: MAK117L
Sample Description: SAMP 10260486018 - BAL PASI-WI	Instrument: 10MSHR06 (U)

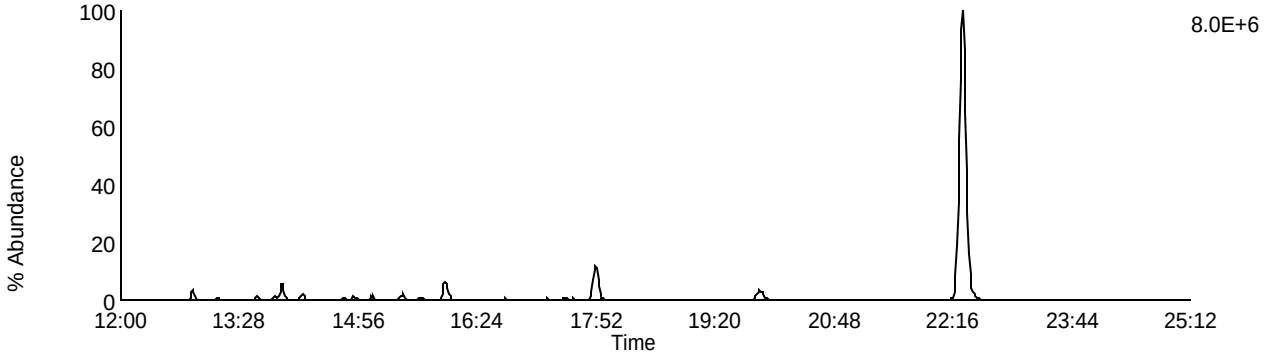
Data File: U140328B_16 G1 C12 - 339.8597
SAMP 10260486018 - BAL PASI-WI



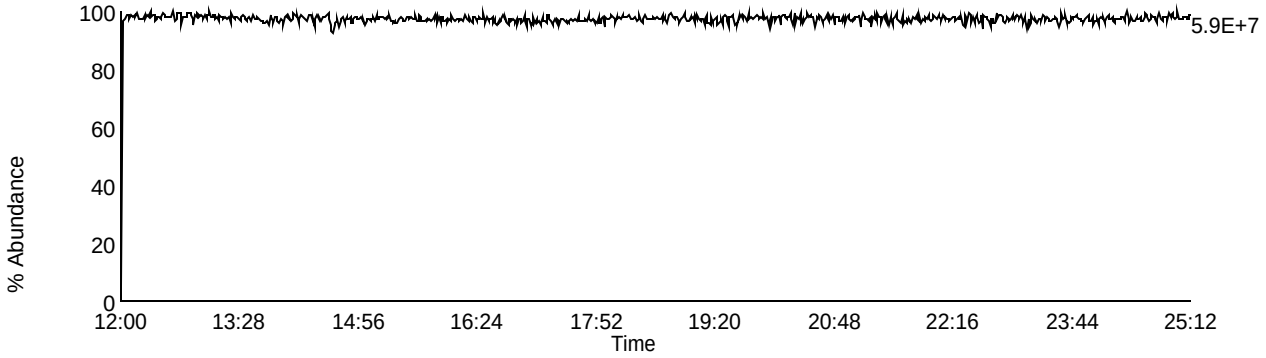
Data File: U140328B_16 G1 C13 - 341.8567
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G1 C9 - 327.8847
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G1 C5 - 318.9792
SAMP 10260486018 - BAL PASI-WI

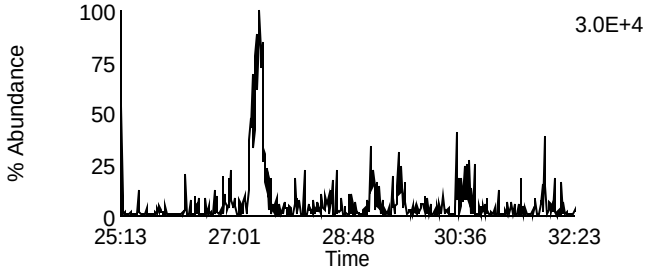


Homologue Group: Pentas

Data File Name: U140328B_16
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486018 - BAL PASI-WI

Lab Sample ID: 10260486018
Client Sample ID: MAK117L
Instrument: 10MSHR06 (U)

Data File: U140328B_16 G2 C1 - 339.8597
SAMP 10260486018 - BAL PASI-WI



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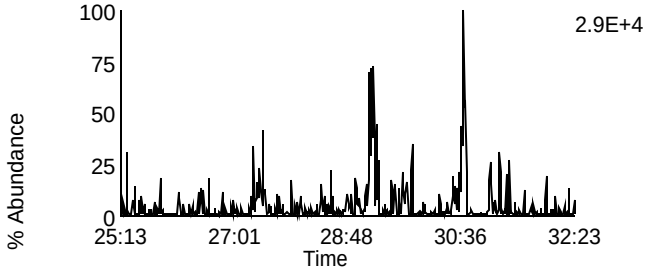
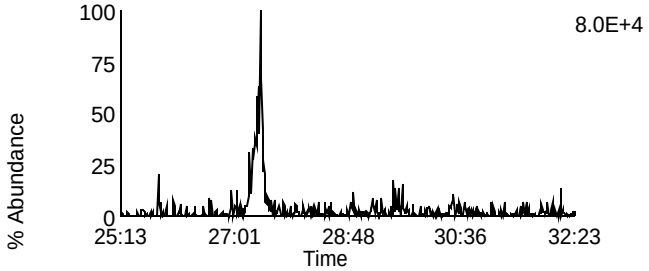
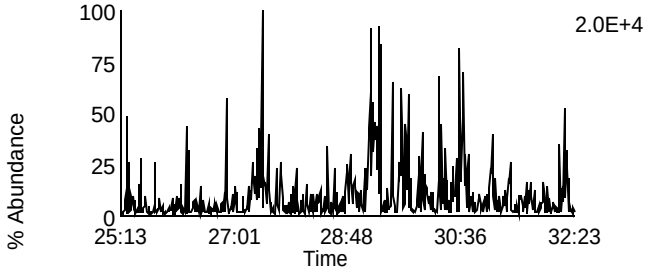
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G2 C2 - 341.8567
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G2 C8 - 355.8546
SAMP 10260486018 - BAL PASI-WI



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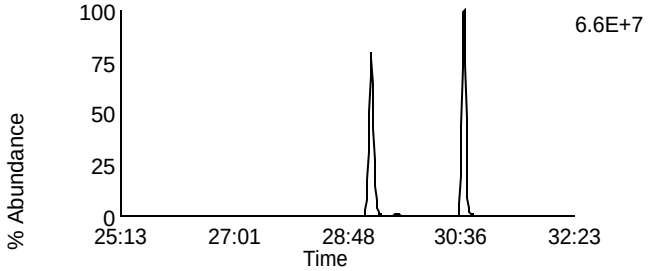
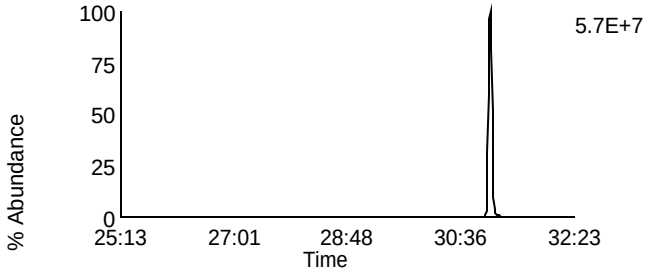
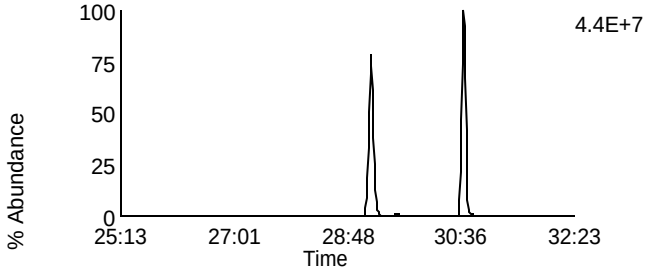
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G2 C10 - 367.8948
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G2 C5 - 353.8969
SAMP 10260486018 - BAL PASI-WI



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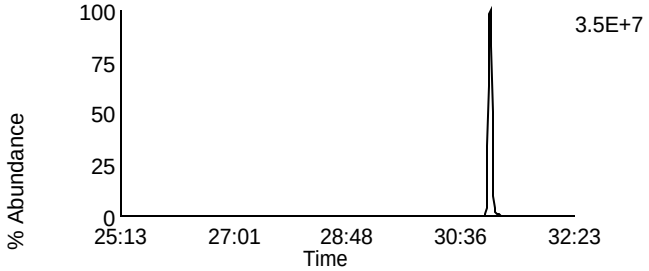
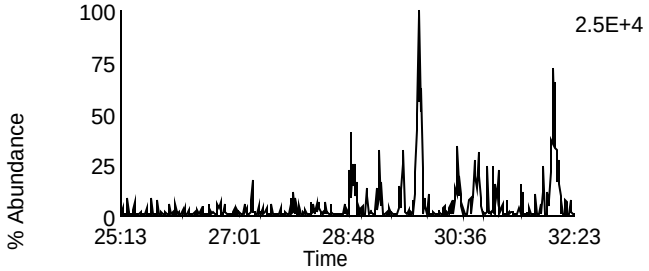
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G2 C12 - 409.7974
SAMP 10260486018 - BAL PASI-WI



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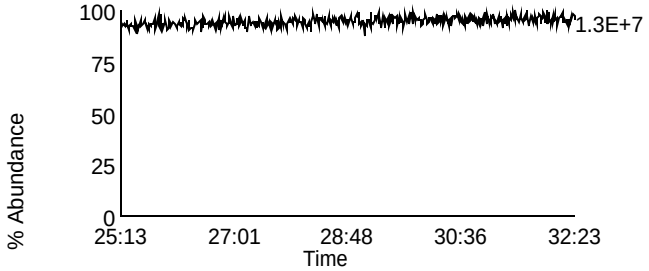
SAMP 10260486018 - BAL PASI-WI

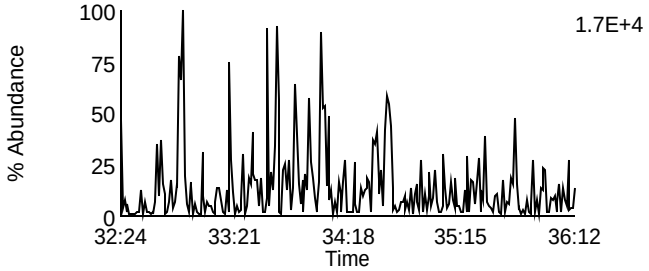


Homologue Group: Hexas

Data File Name: U140328B_16
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486018 - BAL PASI-WI

Lab Sample ID: 10260486018
Client Sample ID: MAK117L
Instrument: 10MSHR06 (U)

Data File: U140328B_16 G3 C1 - 373.8207
SAMP 10260486018 - BAL PASI-WI



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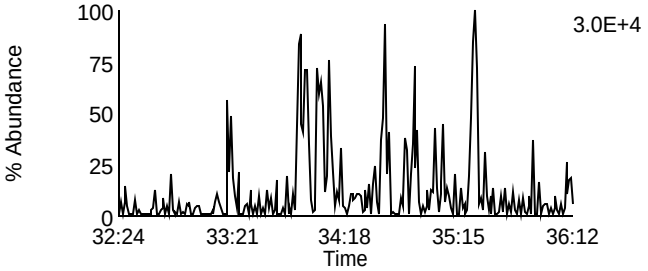
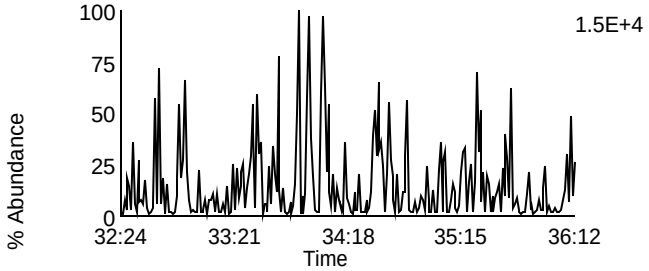
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G3 C2 - 375.8178
SAMP 10260486018 - BAL PASI-WI



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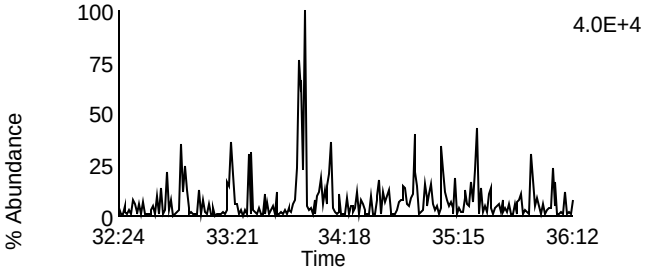
SAMP 10260486018 - BAL PASI-WI



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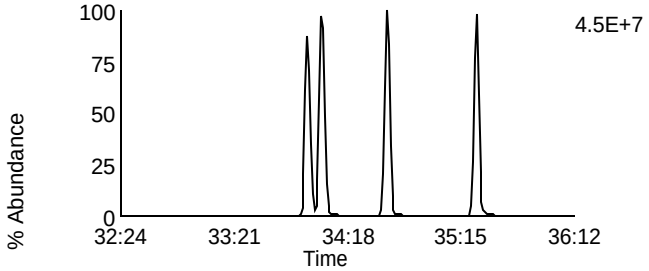
SAMP 10260486018 - BAL PASI-WI



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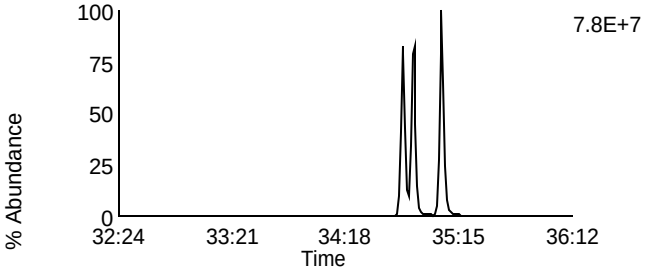
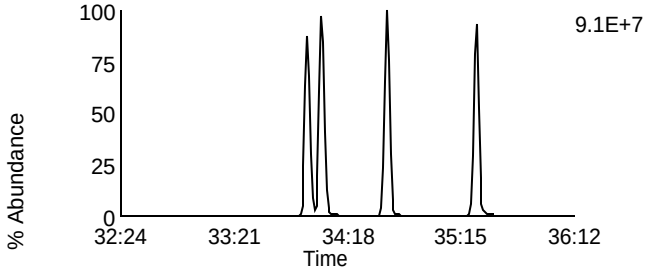
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G3 C6 - 385.861
SAMP 10260486018 - BAL PASI-WI



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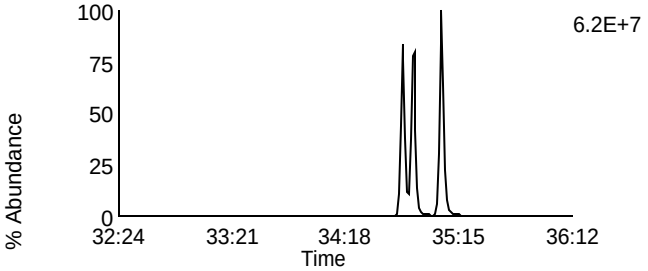

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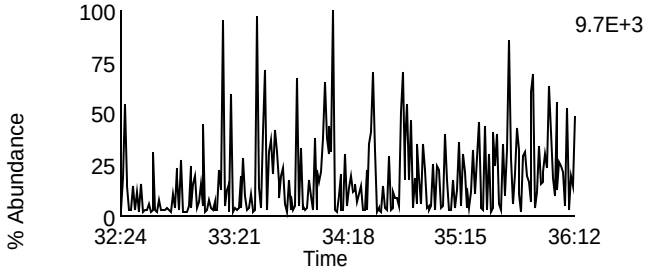
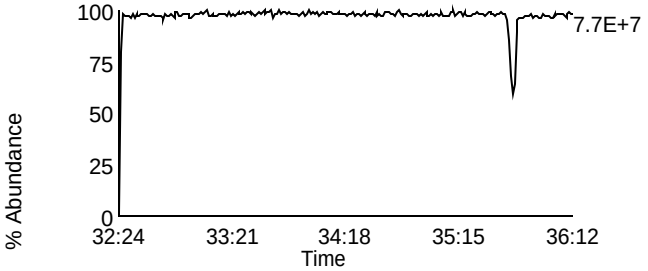
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G3 C3 - 380.976
SAMP 10260486018 - BAL PASI-WI

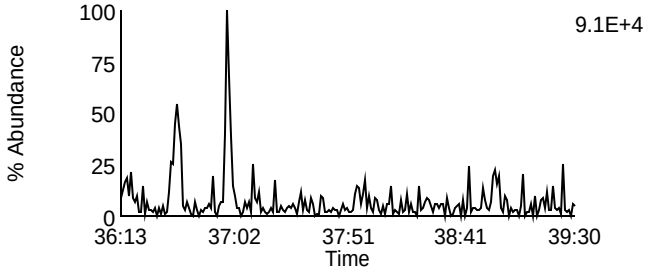


Homologue Group: Heptas

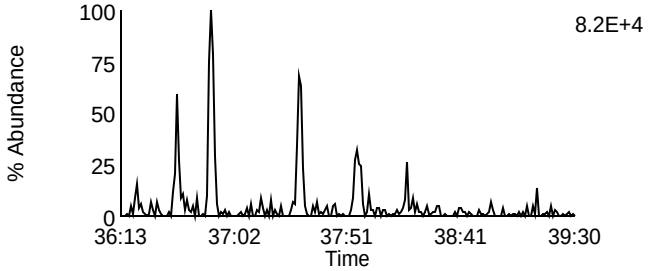
Data File Name: U140328B_16
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486018 - BAL PASI-WI

Lab Sample ID: 10260486018
Client Sample ID: MAK117L
Instrument: 10MSHR06 (U)

Data File: U140328B_16 G4 C3 - 407.7818
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G4 C8 - 423.7767
SAMP 10260486018 - BAL PASI-WI



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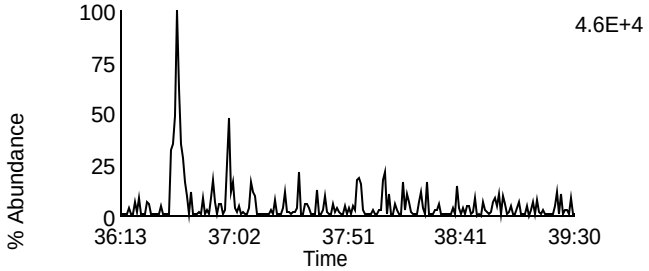
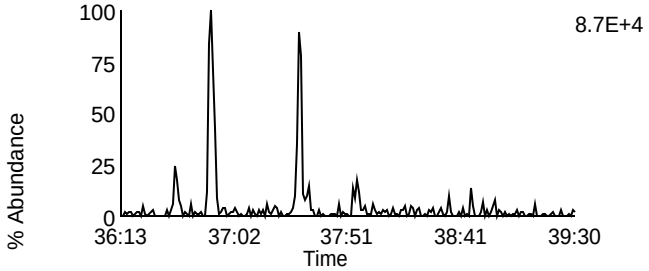
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G4 C9 - 425.7737
SAMP 10260486018 - BAL PASI-WI



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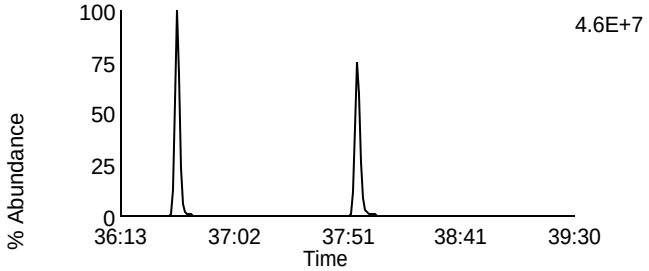
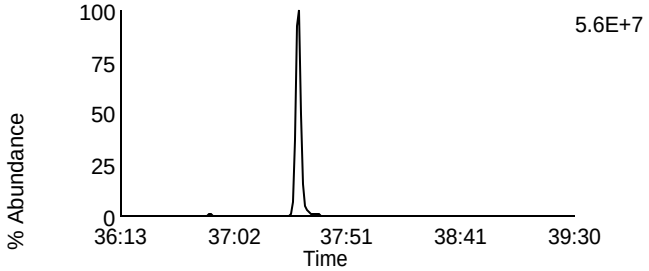
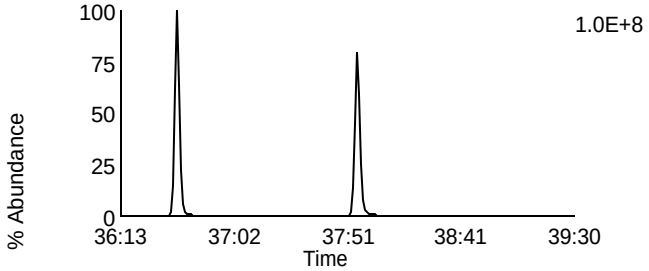
SAMP 10260486018 - BAL PASI-WI



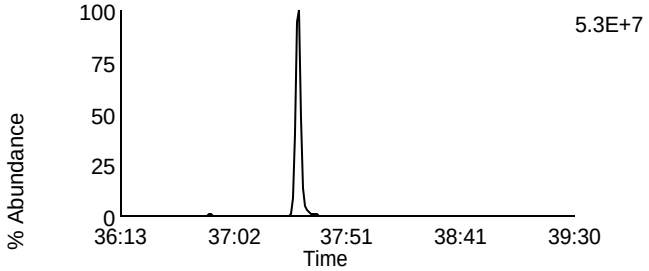
Data File: U140328B_16 G4 C11 - 435.8169
SAMP 10260486018 - BAL PASI-WI



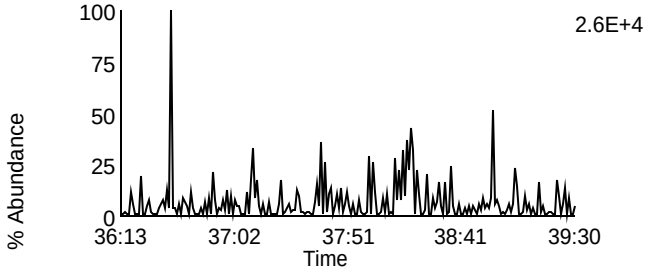
Data File: U140328B_16 G4 C7 - 419.822
SAMP 10260486018 - BAL PASI-WI



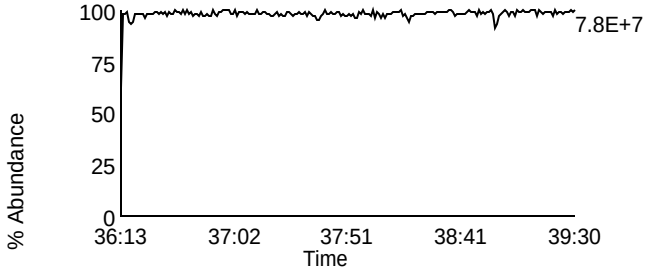
Data File: U140328B_16 G4 C12 - 437.814
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G4 C13 - 479.7165
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G4 C1 - 380.976
SAMP 10260486018 - BAL PASI-WI

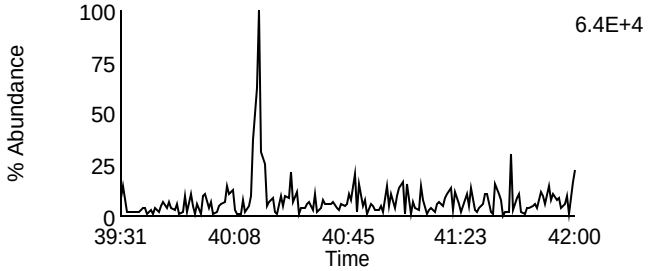


Homologue Group: Octas

Data File Name: U140328B_16
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486018 - BAL PASI-WI

Lab Sample ID: 10260486018
Client Sample ID: MAK117L
Instrument: 10MSHR06 (U)

Data File: U140328B_16 G5 C4 - 441.7428
SAMP 10260486018 - BAL PASI-WI



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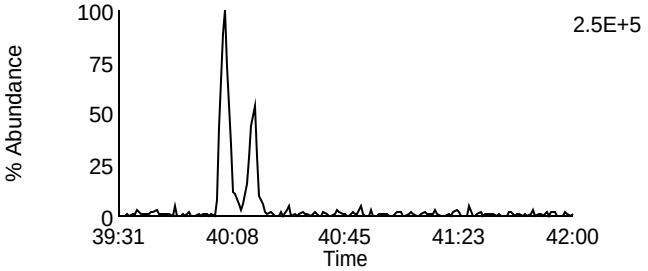
SAMP 10260486018 - BAL PASI-WI



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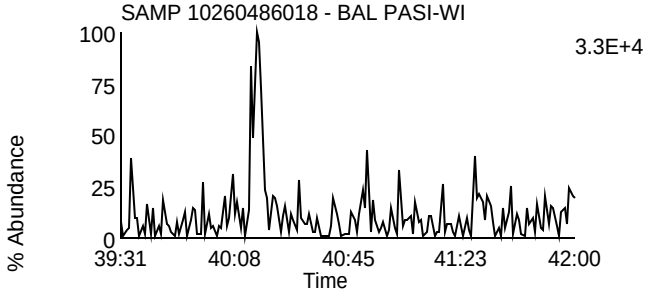
SAMP 10260486018 - BAL PASI-WI



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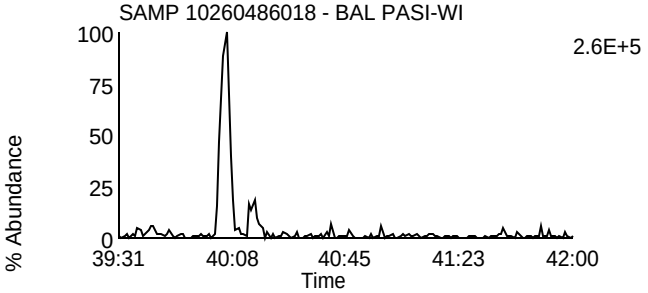
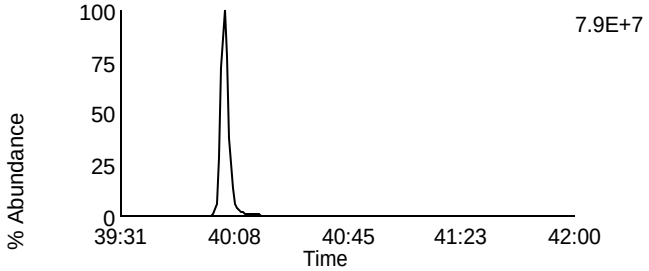
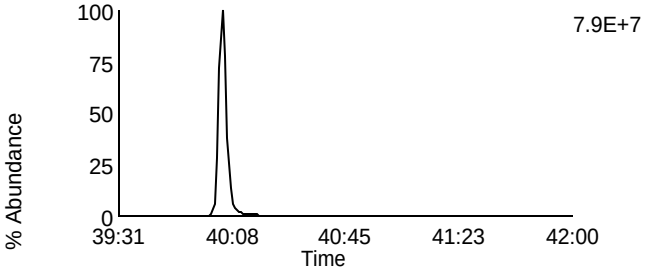
SAMP 10260486018 - BAL PASI-WI



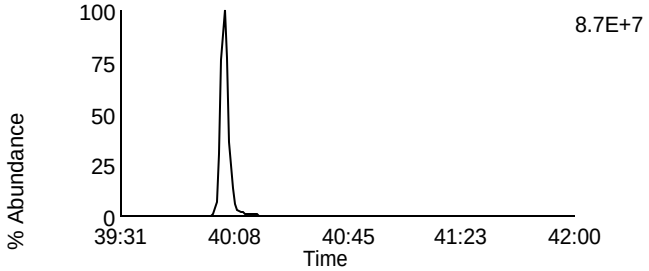
Data File: U140328B_16 G5 C11 - 469.7779
SAMP 10260486018 - BAL PASI-WI



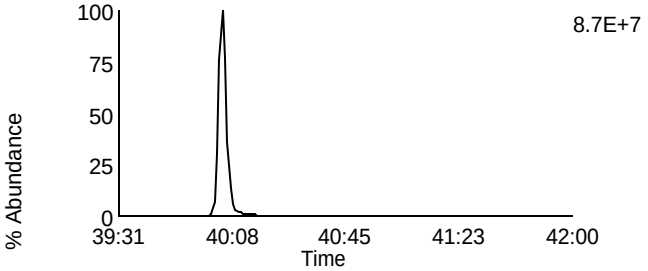
Data File: U140328B_16 G5 C11 - 469.7779
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G5 C12 - 471.7749
SAMP 10260486018 - BAL PASI-WI



Data File: U140328B_16 G5 C12 - 471.7749
SAMP 10260486018 - BAL PASI-WI



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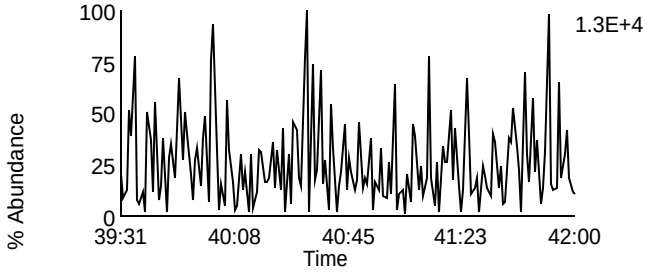
SAMP 10260486018 - BAL PASI-WI



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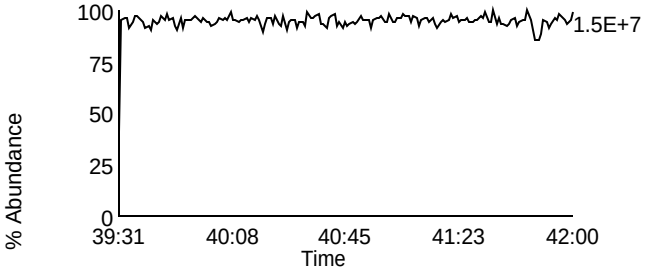
SAMP 10260486018 - BAL PASI-WI

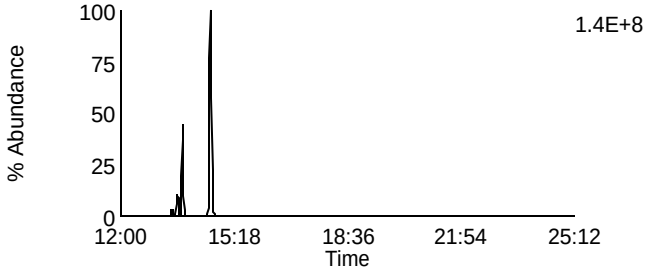


Homologue Group: Tetras

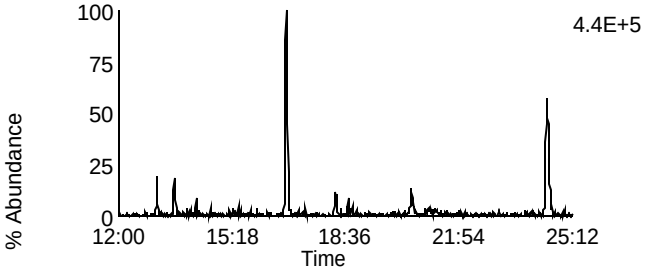
Data File Name: U140328B_17
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486019 - BAL PASI-WI

Lab Sample ID: 10260486019
Client Sample ID: MAK118L
Instrument: 10MSHR06 (U)

Data File: U140328B_17 G1 C1 - 303.9016
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G1 C7 - 319.8965
SAMP 10260486019 - BAL PASI-WI



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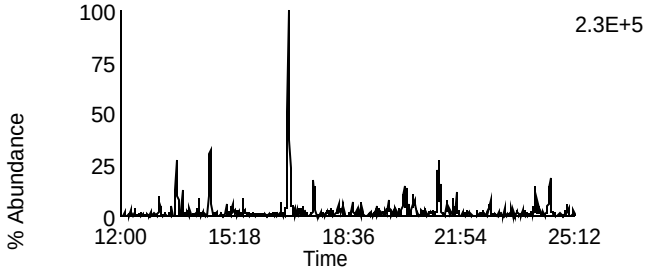
SAMP 10260486019 - BAL PASI-WI



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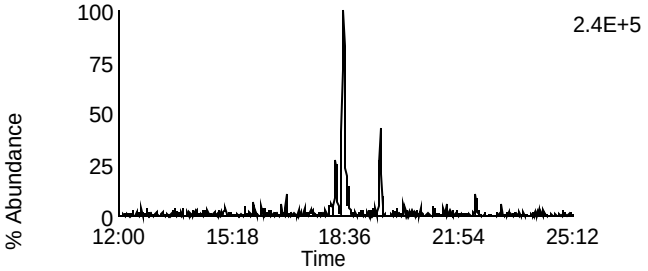
SAMP 10260486019 - BAL PASI-WI



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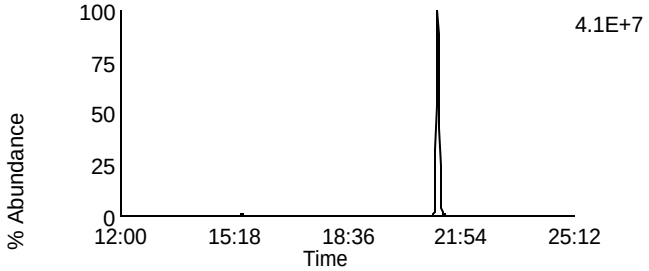
SAMP 10260486019 - BAL PASI-WI



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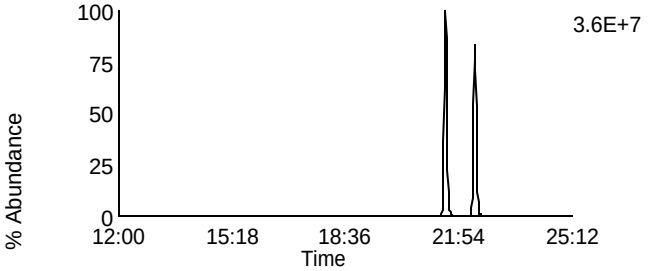
SAMP 10260486019 - BAL PASI-WI



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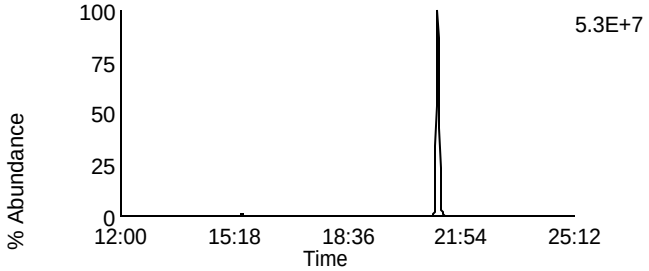
SAMP 10260486019 - BAL PASI-WI



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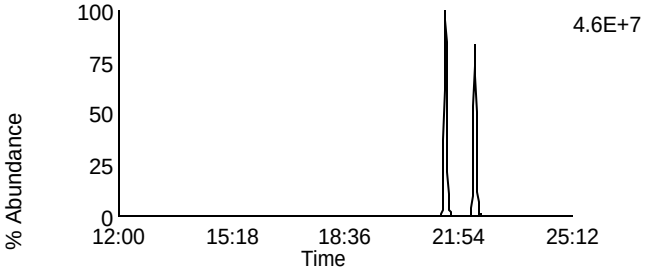
SAMP 10260486019 - BAL PASI-WI



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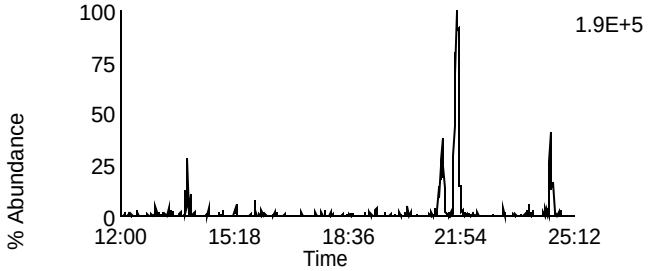
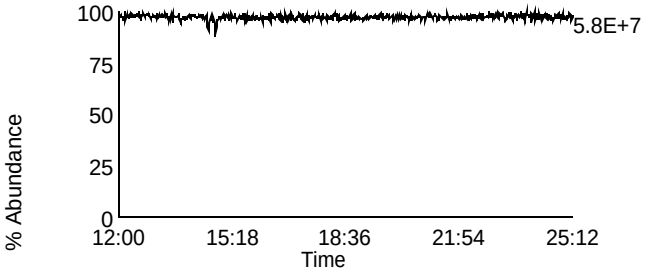
SAMP 10260486019 - BAL PASI-WI



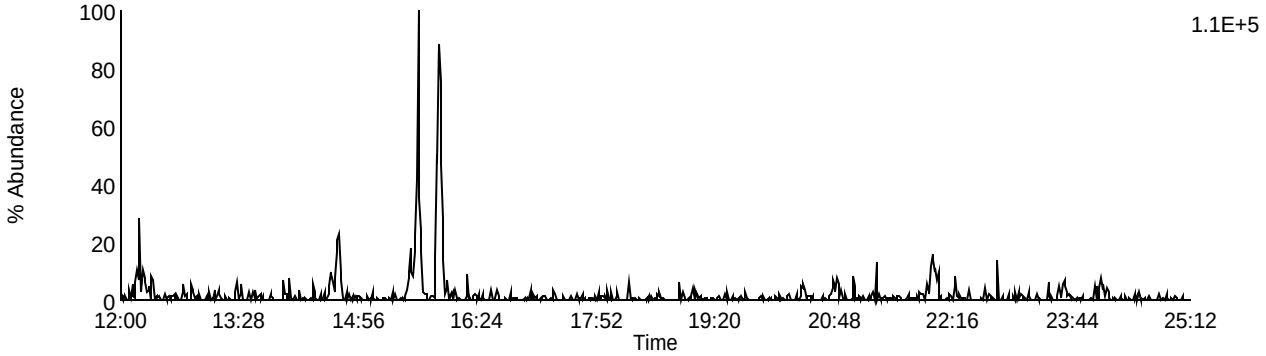
Data File: U140328B_17 G1 C5 - 318.9792
SAMP 10260486019 - BAL PASI-WI



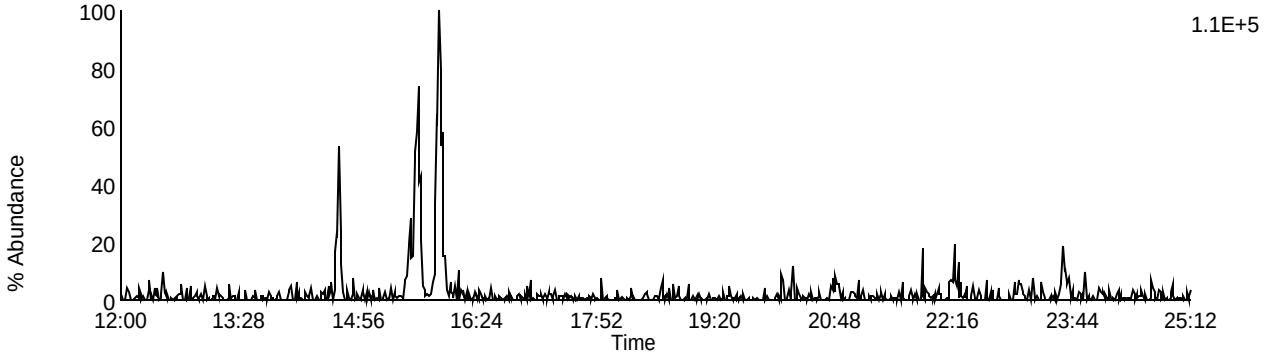
Homologue Group: Penta & Cleanup

Data File Name: U140328B_17	Lab Sample ID: 10260486019
Date Acquired: 3/29/2014	Client Sample ID: MAK118L
Sample Description: SAMP 10260486019 - BAL PASI-WI	Instrument: 10MSHR06 (U)

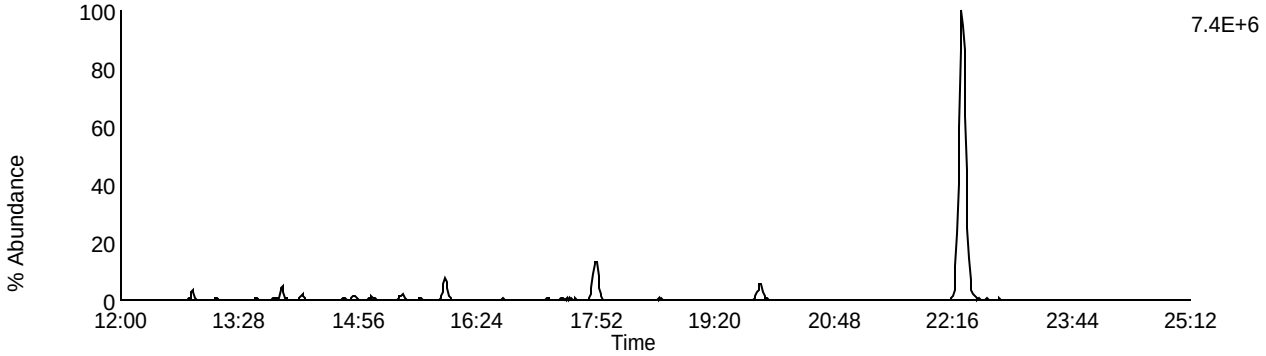
Data File: U140328B_17 G1 C12 - 339.8597
SAMP 10260486019 - BAL PASI-WI



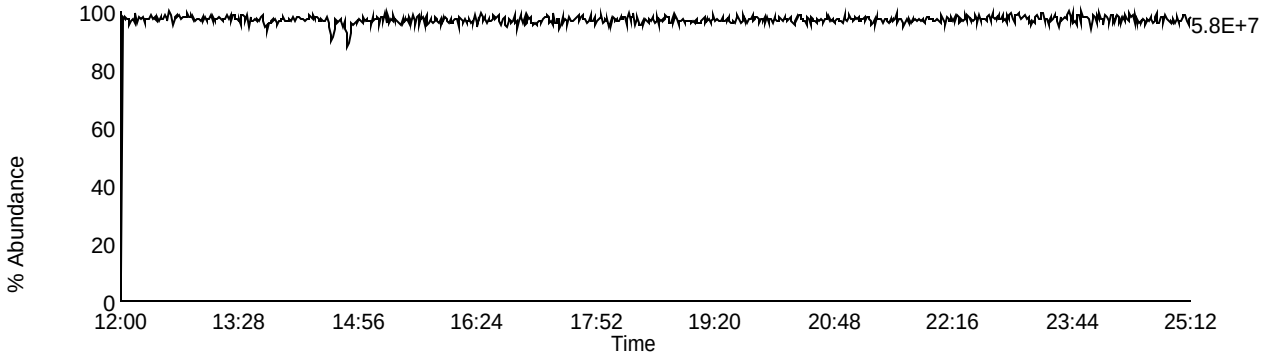
Data File: U140328B_17 G1 C13 - 341.8567
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G1 C9 - 327.8847
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G1 C5 - 318.9792
SAMP 10260486019 - BAL PASI-WI

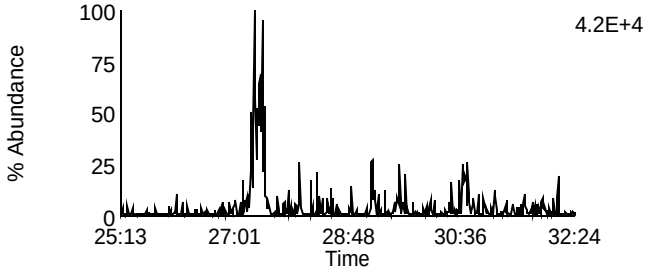


Homologue Group: Pentas

Data File Name: U140328B_17
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486019 - BAL PASI-WI

Lab Sample ID: 10260486019
Client Sample ID: MAK118L
Instrument: 10MSHR06 (U)

Data File: U140328B_17 G2 C1 - 339.8597
SAMP 10260486019 - BAL PASI-WI



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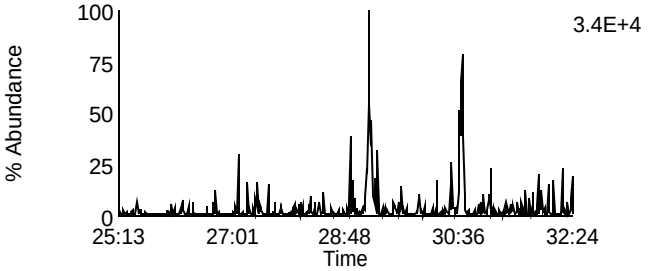
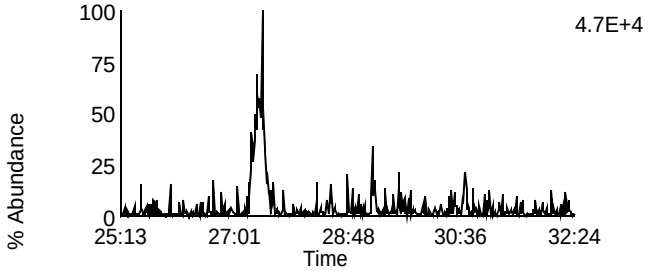
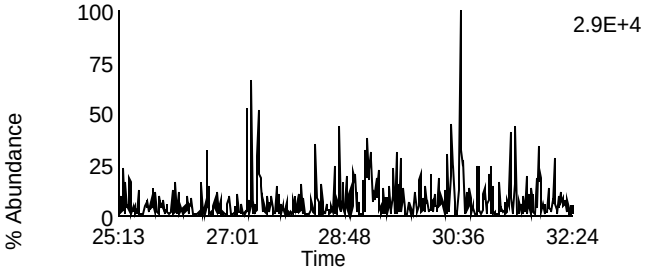
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G2 C2 - 341.8567
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G2 C8 - 355.8546
SAMP 10260486019 - BAL PASI-WI



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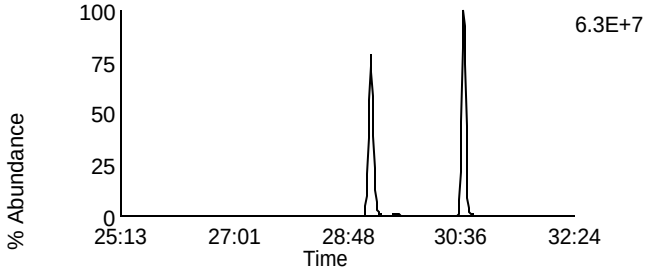
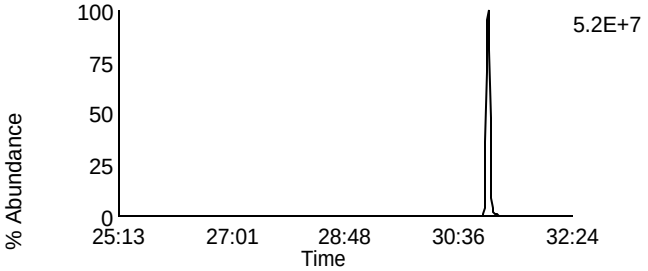
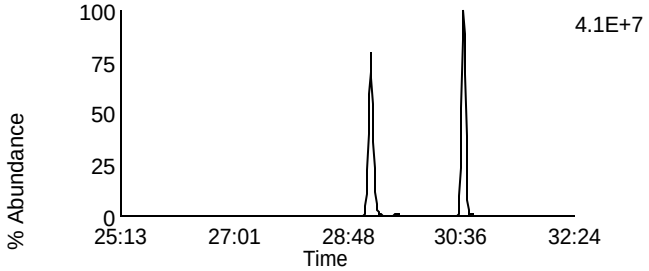
SAMP 10260486019 - BAL PASI-WI



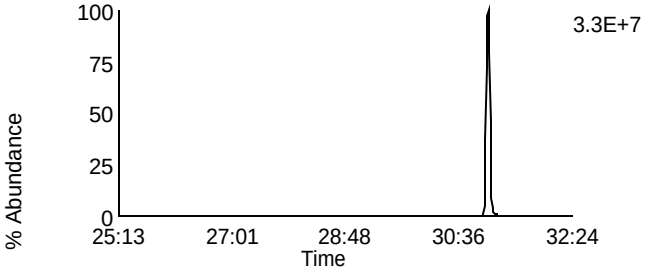
Data File: U140328B_17 G2 C10 - 367.8948
SAMP 10260486019 - BAL PASI-WI



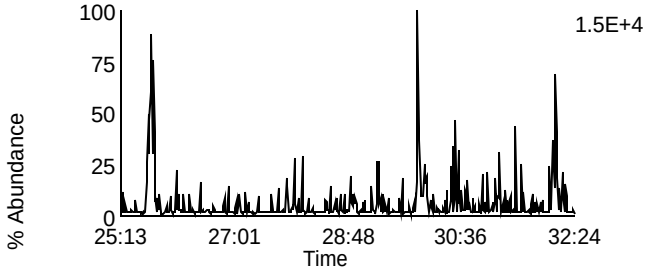
Data File: U140328B_17 G2 C5 - 353.8969
SAMP 10260486019 - BAL PASI-WI



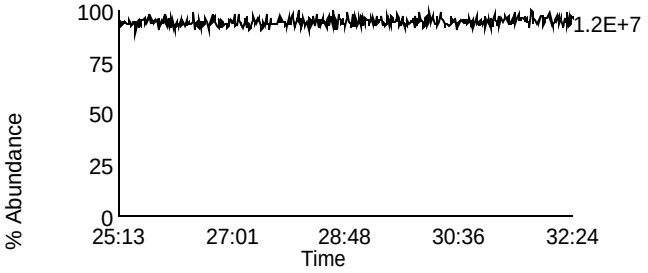
Data File: U140328B_17 G2 C11 - 369.8918
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G2 C12 - 409.7974
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G2 C6 - 354.9792
SAMP 10260486019 - BAL PASI-WI

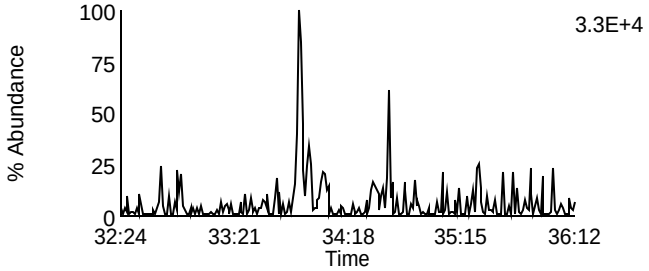


Homologue Group: Hexas

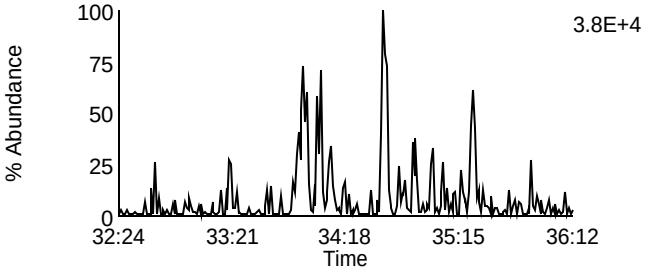
Data File Name: U140328B_17
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486019 - BAL PASI-WI

Lab Sample ID: 10260486019
Client Sample ID: MAK118L
Instrument: 10MSHR06 (U)

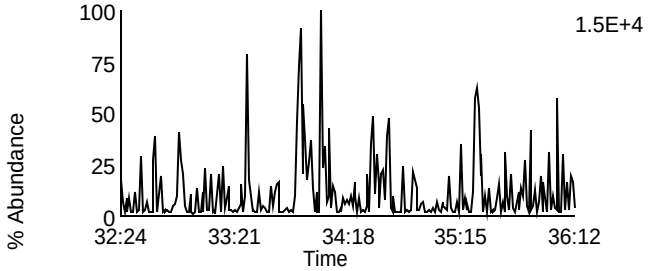
Data File: U140328B_17 G3 C1 - 373.8207
SAMP 10260486019 - BAL PASI-WI



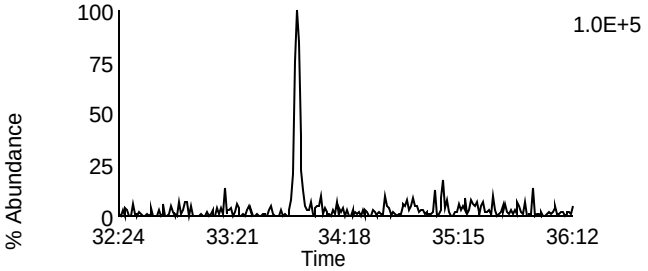
Data File: U140328B_17 G3 C7 - 389.8156
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G3 C2 - 375.8178
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G3 C8 - 391.8127
SAMP 10260486019 - BAL PASI-WI



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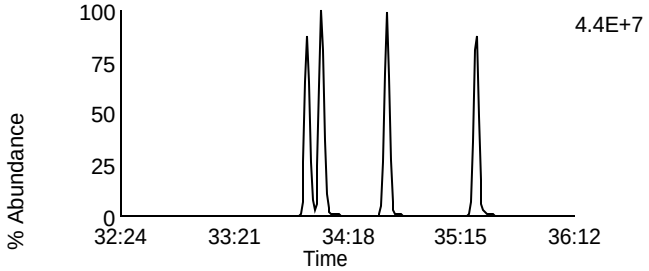
SAMP 10260486019 - BAL PASI-WI



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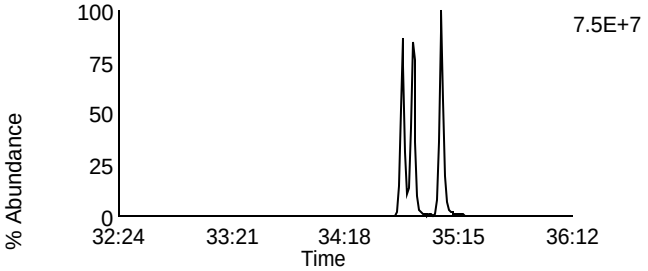
SAMP 10260486019 - BAL PASI-WI



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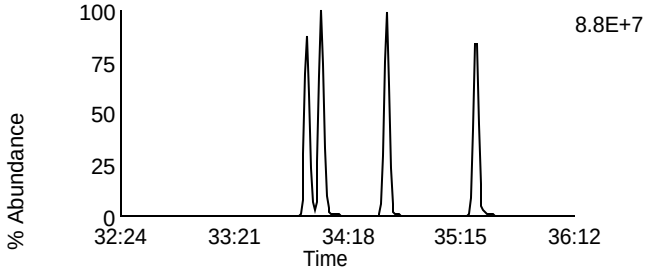
SAMP 10260486019 - BAL PASI-WI



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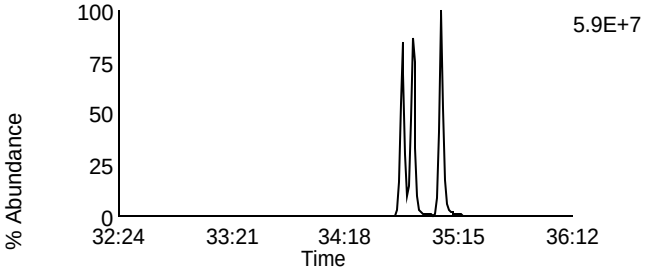
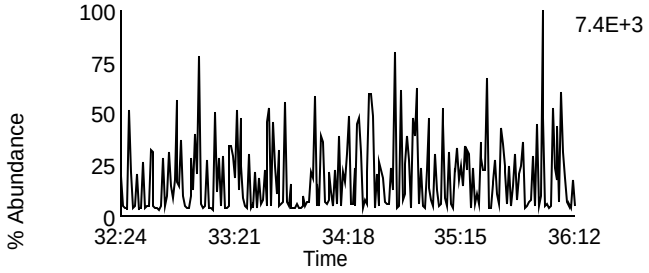
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G3 C11 - 445.7555
SAMP 10260486019 - BAL PASI-WI



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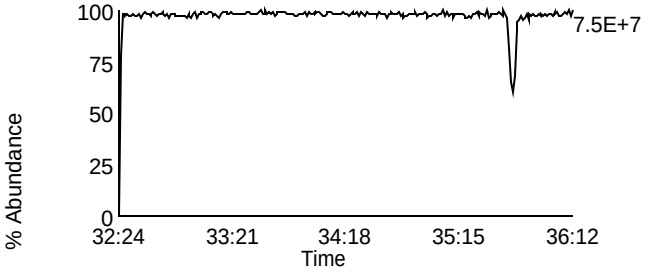
SAMP 10260486019 - BAL PASI-WI

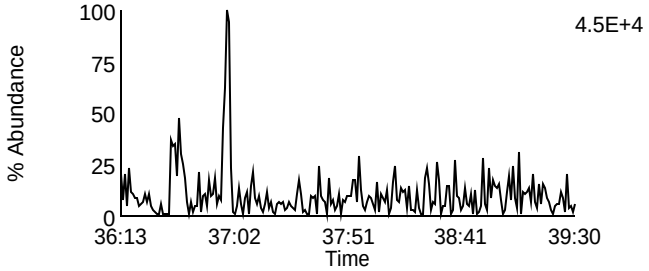


Homologue Group: Heptas

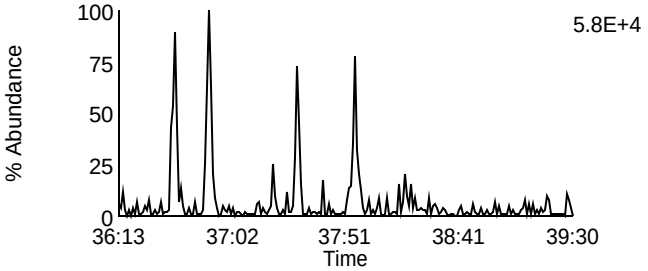
Data File Name: U140328B_17
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486019 - BAL PASI-WI

Lab Sample ID: 10260486019
Client Sample ID: MAK118L
Instrument: 10MSHR06 (U)

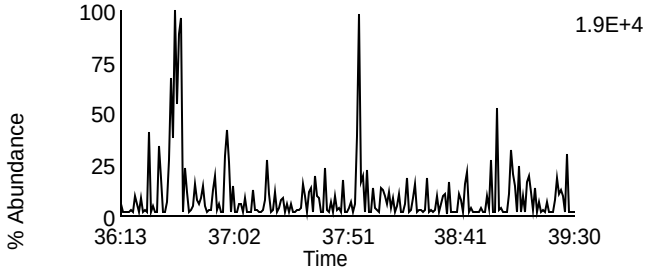
Data File: U140328B_17 G4 C3 - 407.7818
SAMP 10260486019 - BAL PASI-WI



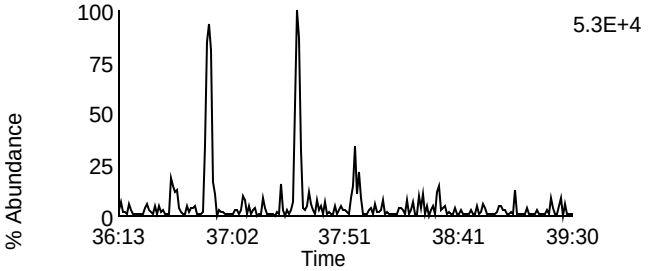
Data File: U140328B_17 G4 C8 - 423.7767
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G4 C4 - 409.7788
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G4 C9 - 425.7737
SAMP 10260486019 - BAL PASI-WI



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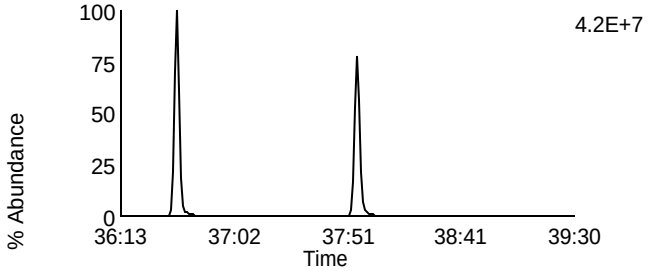
SAMP 10260486019 - BAL PASI-WI



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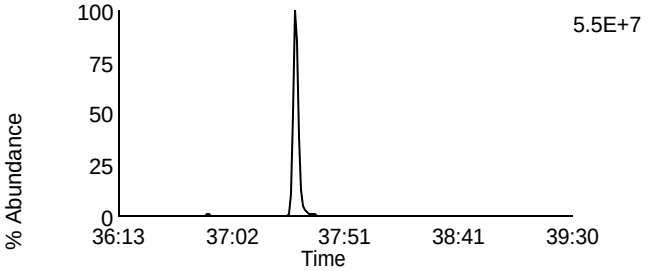
SAMP 10260486019 - BAL PASI-WI



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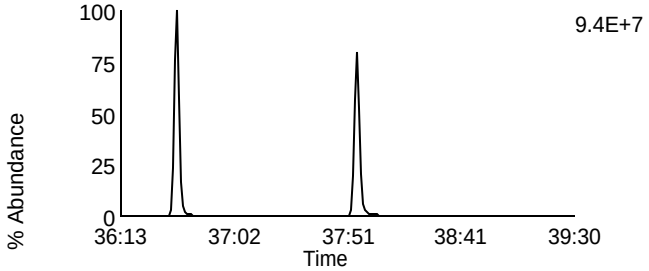
SAMP 10260486019 - BAL PASI-WI



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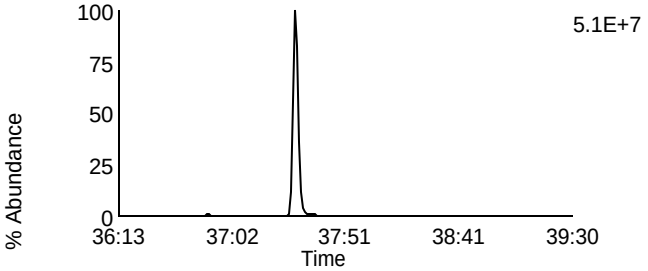
SAMP 10260486019 - BAL PASI-WI



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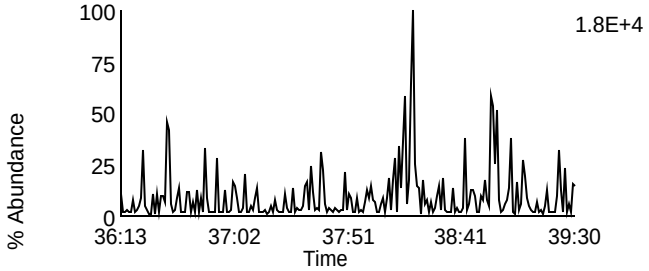
SAMP 10260486019 - BAL PASI-WI



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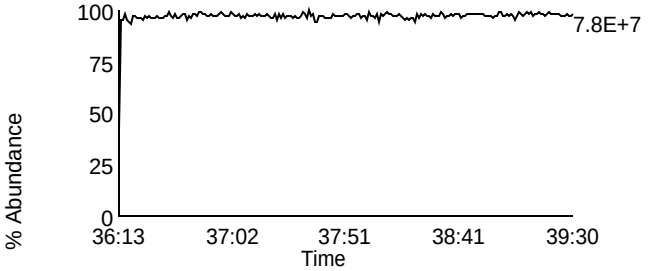
SAMP 10260486019 - BAL PASI-WI



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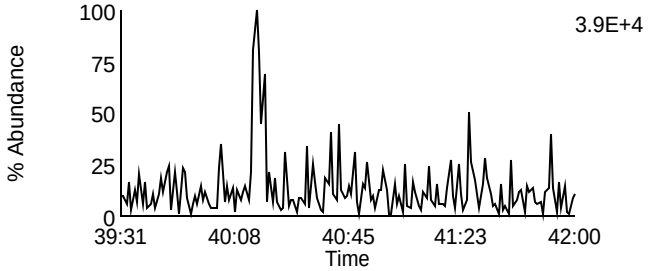
Data File Name: U140328B_17
Date Acquired: 3/29/2014
Sample Description: SAMP 10260486019 - BAL PASI-WI

Lab Sample ID: 10260486019
Client Sample ID: MAK118L
Instrument: 10MSHR06 (U)

Data File: U140328B_17 G5 C4 - 441.7428
SAMP 10260486019 - BAL PASI-WI



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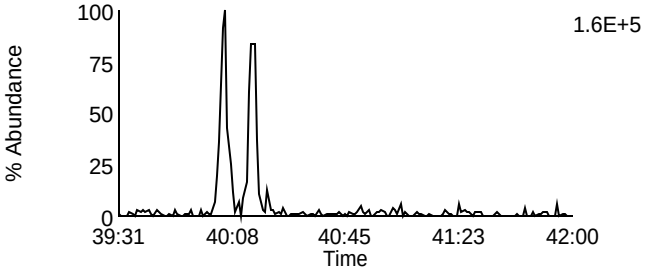
SAMP 10260486019 - BAL PASI-WI



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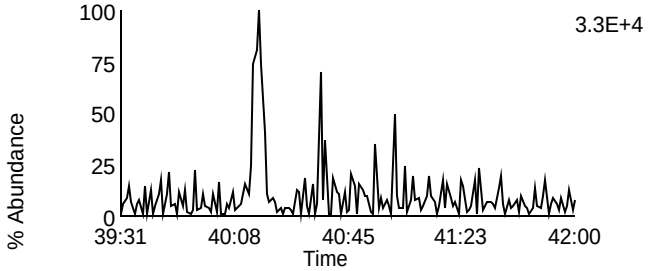
SAMP 10260486019 - BAL PASI-WI



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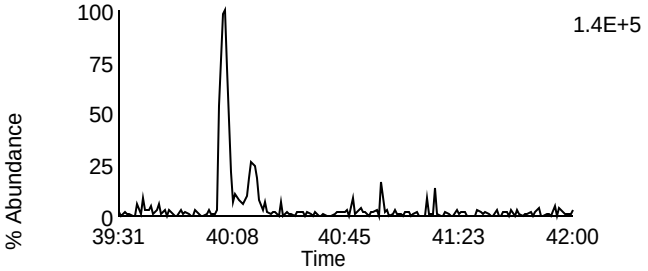
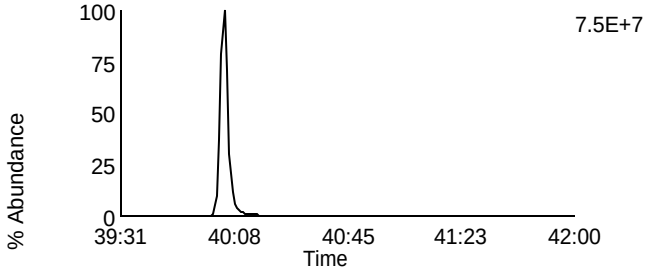
SAMP 10260486019 - BAL PASI-WI



Data File: U140328B_17 G5 C11 - 469.7779
SAMP 10260486019 - BAL PASI-WI



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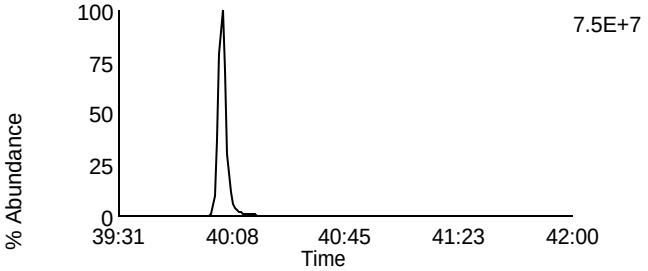
SAMP 10260486019 - BAL PASI-WI



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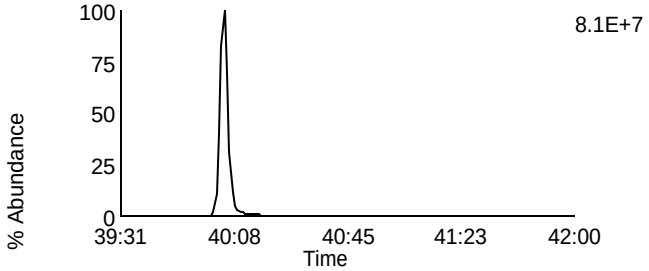
SAMP 10260486019 - BAL PASI-WI



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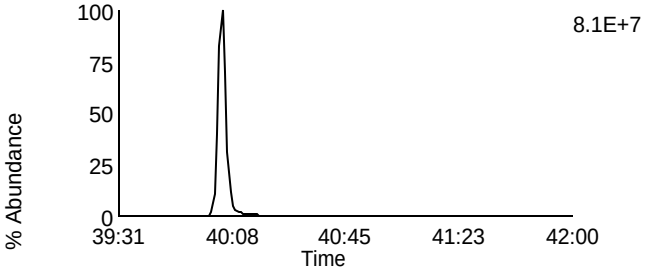
SAMP 10260486019 - BAL PASI-WI



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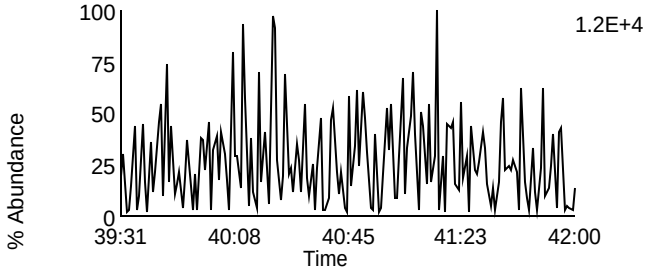
SAMP 10260486019 - BAL PASI-WI



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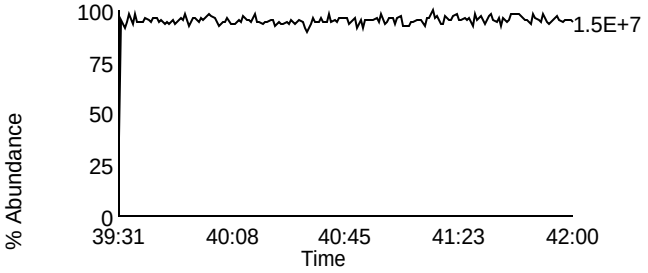
SAMP 10260486019 - BAL PASI-WI



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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	MAK111C	Injected By	BAL
Lab ID	10260486001	Instrument ID	10MSHR09 (P)
Filename	P140321B_09	GC Column ID	USC473217H
Analyzed	03/21/2014 21:03	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:28	2.95e7	3.72e7	5.06e6	6.28e6	6.205e3	6.269e3	0.79	
2,3,7,8-TCDF		17:28	1.96e4	2.37e4	4.08e3	3.41e3	7.449e2	1.298e3	0.83	
Other TCDF	1	15:27	1.01e4	1.30e4					0.78	
	2	16:04	9.85e3	1.23e4					0.80	
	3	16:15	1.57e4	1.92e4					0.82	
	4	15:07	2.73e4	3.13e4					0.87	
	5	14:49	2.33e4	3.36e4					0.70	
	6	14:32	6.99e4	8.30e4					0.84	
	7	14:10	1.82e4	2.43e4					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	17:38	2.59e7	3.31e7	4.69e6	6.04e6	2.531e3	1.565e3	0.78	
2,3,7,8-TCDD-13C	18:22	2.08e7	2.59e7	3.35e6	4.23e6	5.293e3	9.024e3	0.80	
2,3,7,8-TCDD-37Cl4	18:23	4.77e6		7.62e5		1.314e3	-----		
2,3,7,8-TCDD	18:24	ND	ND	ND	ND	8.498e2	8.953e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:14	2.93e7	1.85e7	4.07e6	2.51e6	7.449e2	5.619e3	1.58	
2,3,4,7,8-PeCDF-13C	25:60	2.83e7	1.77e7	4.73e6	3.01e6	4.690e3	3.821e3	1.60	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	6.907e2	9.144e2		
2,3,4,7,8-PeCDF	26:02	ND	ND	ND	ND	6.603e2	6.212e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.90e7	1.19e7	3.04e6	1.95e6	2.316e3	1.056e3	1.60	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	5.484e2	7.397e2		

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	30:17	9.97e6	1.88e7	2.32e6	4.43e6	5.793e2	1.209e3	0.53	
1,2,3,6,7,8-HxCDF-13C	30:27	1.31e7	2.47e7	2.56e6	4.79e6	3.365e2	1.209e3	0.53	

REPORT OF LABORATORY ANALYSIS

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

Client Name	PASI Wisconsin		
Client ID	MAK111C	Injected By	BAL
Lab ID	10260486001	Instrument ID	10MSHR09 (P)
Filename	P140321B_09	GC Column ID	USC473217H
Analyzed	03/21/2014 21:03	ICAL ID	P130624

2,3,4,6,7,8-HxCDF-13C	31:13	1.15e7	2.14e7	2.51e6	4.72e6	5.527e2	7.650e2	0.54	
1,2,3,7,8,9-HxCDF-13C	32:13	9.51e6	1.87e7	1.95e6	3.80e6	7.246e3	6.415e3	0.51	
1,2,3,4,7,8-HxCDF	30:17	7.76e3	6.53e3	1.11e3	9.74e2	7.772e2	7.875e2	1.19	
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	6.655e2	6.137e2		
2,3,4,6,7,8-HxCDF	31:15	ND	ND	ND	ND	6.174e2	7.234e2		
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	6.322e2	6.879e2		

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	31:24	1.15e7	8.98e6	2.88e6	2.26e6	1.999e3	1.114e3	1.28	
1,2,3,6,7,8-HxCDD-13C	31:32	1.39e7	1.08e7	3.01e6	2.45e6	1.957e3	4.376e2	1.28	
1,2,3,7,8,9-HxCDD-13C	31:51	1.78e7	1.38e7	3.62e6	2.88e6	1.229e4	1.350e4	1.29	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	7.079e2	7.395e2		
1,2,3,6,7,8-HxCDD	31:33	ND	ND	ND	ND	6.226e2	6.768e2		
1,2,3,7,8,9-HxCDD	31:52	ND	ND	ND	ND	8.612e2	7.398e2		

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	33:59	7.09e6	1.55e7	1.73e6	3.75e6	1.019e3	6.548e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:39	5.06e6	1.15e7	1.22e6	2.76e6	1.651e3	2.981e3	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	ND	ND	ND	ND	7.023e2	5.630e2		
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	5.856e2	8.097e2		

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	35:10	8.62e6	8.13e6	2.08e6	1.91e6	5.001e2	6.737e3	1.06	
1,2,3,4,6,7,8-HpCDD	35:11	1.21e4	1.32e4			8.282e2	5.186e2	0.91	
Other HpCDD 1	34:19	7.19e3	6.38e3					1.13	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:09	8.76e3	7.89e3	2.09e3	1.79e3	6.697e2	8.414e2	1.11	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:60	1.09e7	1.22e7	2.58e6	2.82e6	3.335e3	3.946e3	0.89	

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Client Name	PASI Wisconsin		
Client ID	MAK111C	Injected By	BAL
Lab ID	10260486001	Instrument ID	10MSHR09 (P)
Filename	P140321B_09	GC Column ID	USC473217H
Analyzed	03/21/2014 21:03	ICAL ID	P130624

OCDD	37:60	2.47e4	2.46e4	9.82e3	8.03e3	1.042e3	1.092e3	1.00

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK113C	Injected By	BAL
Lab ID	10260486002	Instrument ID	10MSHR09 (P)
Filename	P140321B_10	GC Column ID	USC473217H
Analyzed	03/21/2014 21:46	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:27	3.73e7	4.71e7	6.37e6	8.00e6	6.565e3	8.088e3	0.79	
2,3,7,8-TCDF		17:29	2.88e4	4.09e4	6.60e3	6.89e3	7.585e2	7.110e2	0.70	
Other TCDF	1	13:52	8.10e3	1.22e4					0.66	
	2	14:33	1.02e5	1.37e5					0.74	
	3	15:08	2.43e4	3.71e4					0.65	
	4	15:25	2.03e4	2.83e4					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		17:37	2.77e7	3.50e7	5.02e6	6.35e6	4.187e3	4.876e3	0.79	
2,3,7,8-TCDD-13C		18:21	2.62e7	3.31e7	4.18e6	5.36e6	3.460e3	4.142e3	0.79	
2,3,7,8-TCDD-37Cl4		18:23	6.08e6		1.01e6		1.566e3	-----		
2,3,7,8-TCDD		18:23	ND	ND	ND	ND	9.245e2	7.807e2		
Other TCDD	1	15:04	2.96e4	4.58e4					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	24:14	3.76e7	2.35e7	5.06e6	3.13e6	5.447e2	1.054e3	1.60	
2,3,4,7,8-PeCDF-13C	25:60	3.58e7	2.24e7	6.21e6	3.75e6	8.361e3	2.890e3	1.60	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	6.278e2	6.141e2		
2,3,4,7,8-PeCDF	26:02	ND	ND	ND	ND	5.590e2	6.216e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	2.43e7	1.51e7	3.92e6	2.47e6	6.199e3	3.937e3	1.61	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	5.864e2	5.615e2		

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	30:17	1.29e7	2.41e7	3.03e6	5.61e6	1.080e3	3.622e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:27	1.67e7	3.18e7	3.53e6	6.56e6	5.660e2	7.580e2	0.53	
2,3,4,6,7,8-HxCDF-13C	31:12	1.43e7	2.78e7	3.30e6	6.20e6	6.145e2	4.624e2	0.51	
1,2,3,7,8,9-HxCDF-13C	32:13	1.25e7	2.41e7	2.57e6	4.88e6	2.762e3	4.457e3	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK113C	Injected By	BAL
Lab ID	10260486002	Instrument ID	10MSHR09 (P)
Filename	P140321B_10	GC Column ID	USC473217H
Analyzed	03/21/2014 21:46	ICAL ID	P130624

1,2,3,4,7,8-HxCDF	30:19	8.51e3	6.39e3	1.23e3	7.61e2	8.408e2	6.878e2	1.33	
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	8.746e2	5.849e2		
2,3,4,6,7,8-HxCDF	31:14	ND	ND	ND	ND	8.042e2	7.295e2		
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	7.203e2	5.970e2		

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	31:25	1.51e7	1.20e7	3.76e6	2.98e6	1.842e4	1.456e4	1.26	
1,2,3,6,7,8-HxCDD-13C	31:32	1.74e7	1.38e7	3.84e6	3.06e6	8.605e3	8.722e3	1.26	
1,2,3,7,8,9-HxCDD-13C	31:51	1.94e7	1.51e7	3.93e6	3.11e6	4.923e3	5.032e3	1.29	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	7.683e2	6.428e2		
1,2,3,6,7,8-HxCDD	31:33	1.01e4	6.34e3	2.22e3	1.10e3	6.323e2	6.063e2	1.59	I
1,2,3,7,8,9-HxCDD	31:52	ND	ND	ND	ND	6.810e2	6.529e2		

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	33:59	9.12e6	1.96e7	2.25e6	4.93e6	3.685e3	3.648e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:39	6.78e6	1.53e7	1.60e6	3.62e6	2.604e3	4.661e3	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	ND	ND	ND	ND	7.167e2	5.868e2		
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	7.652e2	5.709e2		

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	35:09	1.16e7	1.10e7	2.73e6	2.64e6	5.557e3	2.430e3	1.06	
1,2,3,4,6,7,8-HpCDD	35:11	4.07e4	3.42e4	1.00e4	8.54e3	1.096e3	6.285e2	1.19	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	ND	ND	ND	ND	8.619e2	8.699e2		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.46e7	1.60e7	3.39e6	3.81e6	2.089e3	2.095e3	0.91	
OCDD	38:00	6.82e4	7.83e4	1.85e4	2.14e4	9.553e2	1.055e3	0.87	

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Client Name	PASI Wisconsin		
Client ID	MAK113C	Injected By	BAL
Lab ID	10260486002	Instrument ID	10MSHR09 (P)
Filename	P140321B_10	GC Column ID	USC473217H
Analyzed	03/21/2014 21:46	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK114C	Injected By	BAL
Lab ID	10260486003	Instrument ID	10MSHR09 (P)
Filename	P140321B_11	GC Column ID	USC473217H
Analyzed	03/21/2014 22:29	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:28	3.04e7	3.92e7	5.14e6	6.61e6	4.951e3	4.705e3	0.78	
2,3,7,8-TCDF		17:27	1.59e4	1.94e4	3.30e3	4.29e3	9.599e2	9.216e2	0.82	
Other TCDF	1	16:16	2.25e4	3.35e4					0.67	
	2	16:03	9.34e3	1.10e4					0.85	
	3	15:08	1.98e4	2.50e4					0.79	
	4	14:51	2.46e4	2.80e4					0.88	
	5	14:33	7.63e4	1.02e5					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	17:38	2.52e7	3.18e7	4.55e6	5.76e6	2.445e3	4.827e3	0.79	
2,3,7,8-TCDD-13C	18:22	2.15e7	2.71e7	3.45e6	4.40e6	4.276e3	5.679e3	0.79	
2,3,7,8-TCDD-37Cl4	18:23	4.98e6		8.22e5		4.767e2	-----		
2,3,7,8-TCDD	18:24	ND	ND	ND	ND	7.862e2	8.175e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:14	3.03e7	1.91e7	4.06e6	2.56e6	8.576e2	8.520e2	1.59	
2,3,4,7,8-PeCDF-13C	25:60	2.89e7	1.77e7	4.64e6	2.93e6	6.857e3	4.375e3	1.63	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	4.684e2	6.285e2		
2,3,4,7,8-PeCDF	26:02	ND	ND	ND	ND	4.795e2	5.543e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.93e7	1.24e7	3.13e6	2.06e6	3.424e3	2.040e3	1.55	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	6.996e2	7.687e2		

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	30:17	1.01e7	1.93e7	2.41e6	4.56e6	4.103e2	9.455e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:27	1.34e7	2.55e7	2.75e6	5.13e6	5.057e2	6.009e2	0.53	
2,3,4,6,7,8-HxCDF-13C	31:13	1.19e7	2.22e7	2.57e6	4.95e6	6.049e2	4.821e2	0.53	
1,2,3,7,8,9-HxCDF-13C	32:13	1.03e7	1.96e7	2.15e6	4.05e6	2.716e3	1.044e4	0.53	

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Client Name	PASI Wisconsin		
Client ID	MAK114C	Injected By	BAL
Lab ID	10260486003	Instrument ID	10MSHR09 (P)
Filename	P140321B_11	GC Column ID	USC473217H
Analyzed	03/21/2014 22:29	ICAL ID	P130624

1,2,3,4,7,8-HxCDF	30:18	4.39e3	5.17e3	3.05e3	1.55e3	5.886e2	7.278e2	0.85	I
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	5.285e2	7.187e2		
2,3,4,6,7,8-HxCDF	31:15	ND	ND	ND	ND	6.928e2	5.601e2		
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	7.022e2	5.065e2		

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	31:25	1.20e7	9.41e6	2.97e6	2.39e6	1.662e3	8.579e2	1.27	
1,2,3,6,7,8-HxCDD-13C	31:32	1.43e7	1.14e7	3.07e6	2.49e6	1.617e3	1.346e3	1.25	
1,2,3,7,8,9-HxCDD-13C	31:51	1.74e7	1.36e7	3.65e6	2.90e6	7.204e3	6.653e3	1.28	
1,2,3,4,7,8-HxCDD	31:26	ND	ND	ND	ND	5.663e2	5.160e2		
1,2,3,6,7,8-HxCDD	31:33	ND	ND	ND	ND	4.791e2	6.084e2		
1,2,3,7,8,9-HxCDD	31:52	ND	ND	ND	ND	7.557e2	6.365e2		

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	33:59	7.55e6	1.66e7	1.91e6	4.11e6	1.550e3	3.538e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	5.74e6	1.29e7	1.35e6	3.02e6	2.729e3	2.173e3	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	1.28e4	1.12e4	2.42e3	3.69e3	8.030e2	6.466e2	1.15	
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	8.225e2	7.255e2		

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	35:10	9.62e6	9.17e6	2.24e6	2.12e6	8.590e2	4.052e3	1.05	
1,2,3,4,6,7,8-HpCDD	35:11	3.12e4	3.56e4	6.65e3	9.30e3	8.825e2	8.612e2	0.88	
Other HpCDD 1	34:19	7.98e3	7.48e3					1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	ND	ND	ND	ND	7.224e2	8.390e2		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.24e7	1.36e7	2.82e6	3.21e6	2.172e3	1.512e3	0.91	
OCDD	37:60	7.91e4	9.48e4	2.45e4	2.48e4	1.350e3	1.184e3	0.83	

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Client Name	PASI Wisconsin		
Client ID	MAK114C	Injected By	BAL
Lab ID	10260486003	Instrument ID	10MSHR09 (P)
Filename	P140321B_11	GC Column ID	USC473217H
Analyzed	03/21/2014 22:29	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK115C	Injected By	BAL
Lab ID	10260486004	Instrument ID	10MSHR09 (P)
Filename	P140321B_12	GC Column ID	USC473217H
Analyzed	03/21/2014 23:11	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:28	3.27e7	4.12e7	5.67e6	7.10e6	7.774e3	8.368e3	0.79	
2,3,7,8-TCDF		17:29	1.61e4	3.30e4	4.25e3	6.40e3	8.970e2	1.067e3	0.49	I
Other TCDF	1	16:40	1.39e4	1.97e4					0.70	
	2	16:03	9.98e3	1.22e4					0.82	
	3	15:26	1.21e4	1.88e4					0.65	
	4	14:50	2.82e4	3.57e4					0.79	
	5	14:33	8.33e4	1.16e5					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		17:38	2.69e7	3.40e7	4.92e6	6.26e6	2.357e3	1.341e3	0.79	
2,3,7,8-TCDD-13C		18:22	2.28e7	2.87e7	3.77e6	4.72e6	3.165e3	5.066e3	0.80	
2,3,7,8-TCDD-37Cl4		18:23	5.69e6		9.40e5		1.441e3	-----		
2,3,7,8-TCDD		18:24	ND	ND	ND	ND	9.394e2	9.698e2		
Other TCDD	1	15:06	2.89e4	4.04e4					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	24:14	3.29e7	2.07e7	4.40e6	2.81e6	8.340e2	1.928e3	1.59	
2,3,4,7,8-PeCDF-13C	25:60	3.09e7	1.96e7	5.16e6	3.30e6	6.224e3	3.352e3	1.57	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	5.771e2	6.945e2		
2,3,4,7,8-PeCDF	26:02	ND	ND	ND	ND	6.787e2	5.764e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	2.12e7	1.33e7	3.44e6	2.22e6	1.238e3	1.460e3	1.60	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	6.753e2	7.801e2		

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	30:17	1.09e7	2.08e7	2.61e6	4.98e6	8.913e2	5.871e2	0.52	
1,2,3,6,7,8-HxCDF-13C	30:27	1.43e7	2.70e7	3.04e6	5.73e6	1.026e3	1.813e4	0.53	
2,3,4,6,7,8-HxCDF-13C	31:13	1.27e7	2.44e7	2.87e6	5.33e6	4.383e2	5.871e2	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK115C	Injected By	BAL
Lab ID	10260486004	Instrument ID	10MSHR09 (P)
Filename	P140321B_12	GC Column ID	USC473217H
Analyzed	03/21/2014 23:11	ICAL ID	P130624

1,2,3,7,8,9-HxCDF-13C	32:13	1.12e7	2.10e7	2.20e6	4.27e6	7.121e3	3.585e3	0.53	
1,2,3,4,7,8-HxCDF	30:19	4.70e3	4.81e3	1.34e3	1.42e3	5.800e2	5.358e2	0.98	I
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	5.356e2	4.418e2		
2,3,4,6,7,8-HxCDF	31:12	4.93e3	5.46e3	1.03e3	1.02e3	4.630e2	5.878e2	0.90	I
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	5.751e2	5.153e2		

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	31:24	1.29e7	1.03e7	3.12e6	2.47e6	9.092e3	6.033e3	1.26	
1,2,3,6,7,8-HxCDD-13C	31:32	1.56e7	1.20e7	3.30e6	2.57e6	1.488e4	1.996e4	1.30	
1,2,3,7,8,9-HxCDD-13C	31:51	1.94e7	1.52e7	3.92e6	3.14e6	6.511e3	8.567e3	1.28	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	5.395e2	6.271e2		
1,2,3,6,7,8-HxCDD	31:32	4.19e3	5.75e3	2.60e3	1.68e3	5.757e2	6.271e2	0.73	I
1,2,3,7,8,9-HxCDD	31:54	7.81e3	7.00e3	1.83e3	1.62e3	4.756e2	5.940e2	1.12	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	33:59	8.08e6	1.81e7	2.04e6	4.44e6	1.801e3	4.409e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:40	6.36e6	1.35e7	1.44e6	3.11e6	1.801e3	4.409e3	0.47	
1,2,3,4,6,7,8-HpCDF	33:59	7.30e3	8.78e3	2.84e3	2.73e3	7.942e2	5.328e2	0.83	I
1,2,3,4,7,8,9-HpCDF	35:41	ND	ND	ND	ND	5.373e2	6.738e2		

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	35:10	1.05e7	9.70e6	2.55e6	2.30e6	4.259e2	8.628e2	1.08	
1,2,3,4,6,7,8-HpCDD	35:10	5.00e4	3.78e4	1.24e4	9.13e3	6.279e2	7.517e2	1.32	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:09	9.13e3	8.95e3	2.22e3	2.97e3	7.663e2	8.960e2	1.02	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:60	1.33e7	1.53e7	3.19e6	3.58e6	2.088e3	1.914e3	0.87	
OCDD	38:01	1.10e5	1.30e5	2.58e4	3.41e4	8.549e2	1.107e3	0.85	

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Client Name	PASI Wisconsin		
Client ID	MAK115C	Injected By	BAL
Lab ID	10260486004	Instrument ID	10MSHR09 (P)
Filename	P140321B_12	GC Column ID	USC473217H
Analyzed	03/21/2014 23:11	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK116C	Injected By	BAL
Lab ID	10260486005	Instrument ID	10MSHR09 (P)
Filename	P140321B_13	GC Column ID	USC473217H
Analyzed	03/21/2014 23:54	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:27	2.89e7	3.62e7	4.91e6	6.31e6	5.465e3	4.325e3	0.80	
2,3,7,8-TCDF		17:28	2.15e4	2.55e4	2.88e3	5.94e3	9.472e2	1.141e3	0.85	
Other TCDF	1	16:37	1.63e4	2.13e4					0.76	
	2	16:14	3.03e4	3.80e4					0.80	
	3	14:49	3.10e4	3.83e4					0.81	
	4	14:32	8.19e4	1.05e5					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	17:37	2.11e7	2.66e7	3.69e6	4.70e6	2.820e3	4.161e3	0.79	
2,3,7,8-TCDD-13C	18:21	2.01e7	2.53e7	3.22e6	4.10e6	4.537e3	3.878e3	0.80	
2,3,7,8-TCDD-37Cl4	18:23	4.92e6		7.74e5		1.506e3	-----		
2,3,7,8-TCDD	18:23	ND	ND	ND	ND	1.043e3	9.827e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:14	2.84e7	1.82e7	3.88e6	2.41e6	1.271e4	7.276e3	1.57	
2,3,4,7,8-PeCDF-13C	25:59	2.66e7	1.70e7	4.56e6	2.86e6	8.534e3	3.324e3	1.57	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	6.780e2	5.726e2		
2,3,4,7,8-PeCDF	25:60	6.48e3	8.39e3	2.07e3	1.61e3	5.823e2	6.016e2	0.77	I

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.85e7	1.13e7	2.98e6	1.95e6	4.063e3	1.813e3	1.63	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	4.881e2	5.727e2		

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	30:16	9.37e6	1.77e7	2.24e6	4.20e6	5.694e2	6.838e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:26	1.26e7	2.36e7	2.56e6	4.86e6	5.694e2	6.736e2	0.53	
2,3,4,6,7,8-HxCDF-13C	31:12	1.10e7	2.09e7	2.54e6	4.74e6	6.044e2	6.863e2	0.52	
1,2,3,7,8,9-HxCDF-13C	32:13	9.28e6	1.78e7	1.89e6	3.51e6	3.379e3	8.747e3	0.52	
1,2,3,4,7,8-HxCDF	30:17	ND	ND	ND	ND	8.765e2	5.373e2		

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Client Name	PASI Wisconsin		
Client ID	MAK116C	Injected By	BAL
Lab ID	10260486005	Instrument ID	10MSHR09 (P)
Filename	P140321B_13	GC Column ID	USC473217H
Analyzed	03/21/2014 23:54	ICAL ID	P130624

1,2,3,6,7,8-HxCDF	30:27	ND	ND	ND	ND	6.445e2	6.418e2		
2,3,4,6,7,8-HxCDF	31:13	5.31e3	6.00e3	1.52e3	9.13e2	6.069e2	6.556e2	0.88	I
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	6.497e2	7.205e2		

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	31:25	1.09e7	8.60e6	2.83e6	2.22e6	5.081e3	3.050e3	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	1.32e7	1.04e7	2.80e6	2.20e6	4.967e3	4.769e3	1.27	
1,2,3,7,8,9-HxCDD-13C	31:51	1.45e7	1.14e7	2.80e6	2.25e6	7.311e3	5.434e3	1.27	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	7.858e2	8.357e2		
1,2,3,6,7,8-HxCDD	31:32	1.09e4	8.70e3	2.78e3	3.10e3	7.739e2	7.817e2	1.25	
1,2,3,7,8,9-HxCDD	31:53	8.63e3	6.61e3	2.62e3	1.66e3	6.496e2	6.738e2	1.31	

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	33:58	6.93e6	1.54e7	1.67e6	3.79e6	1.520e3	1.750e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	5.13e6	1.15e7	1.18e6	2.55e6	1.740e3	3.740e3	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	7.01e3	7.48e3	2.64e3	3.08e3	8.067e2	6.236e2	0.94	
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	7.872e2	6.408e2		

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	35:09	8.79e6	8.16e6	2.17e6	2.00e6	2.043e3	3.051e3	1.08	
1,2,3,4,6,7,8-HpCDD	35:10	4.99e4	4.72e4	1.45e4	1.37e4	7.827e2	5.961e2	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	ND	ND	ND	ND	8.089e2	8.520e2		

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.11e7	1.24e7	2.68e6	3.00e6	1.736e3	2.613e3	0.89	
OCDD	37:60	9.03e4	1.21e5	2.98e4	3.51e4	7.230e2	6.045e2	0.75	I

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Client Name	PASI Wisconsin		
Client ID	MAK116C	Injected By	BAL
Lab ID	10260486005	Instrument ID	10MSHR09 (P)
Filename	P140321B_13	GC Column ID	USC473217H
Analyzed	03/21/2014 23:54	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK117C	Injected By	BAL
Lab ID	10260486006	Instrument ID	10MSHR09 (P)
Filename	P140321B_14	GC Column ID	USC473217H
Analyzed	03/22/2014 00:37	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:27	2.99e7	3.76e7	4.94e6	6.28e6	4.911e3	4.965e3	0.79	
2,3,7,8-TCDF		17:28	1.42e4	2.44e4	4.26e3	7.04e3	7.661e2	1.004e3	0.58	I
Other TCDF	1	16:38	1.59e4	2.14e4					0.74	
	2	15:23	1.11e4	1.49e4					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		17:37	2.51e7	3.15e7	4.65e6	5.85e6	3.192e3	1.009e3	0.80	
2,3,7,8-TCDD-13C		18:21	2.07e7	2.60e7	3.53e6	4.38e6	3.470e3	3.703e3	0.80	
2,3,7,8-TCDD-37Cl4		18:23	4.88e6		7.70e5		1.682e3	-----		
2,3,7,8-TCDD		18:23	ND	ND	ND	ND	7.221e2	1.228e3		
Other TCDD	1	15:07	1.78e4	2.62e4					0.68	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:14	2.96e7	1.87e7	3.98e6	2.50e6	8.176e2	8.074e3	1.58	
2,3,4,7,8-PeCDF-13C	25:60	2.83e7	1.76e7	4.71e6	2.92e6	3.878e3	4.848e3	1.61	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	7.776e2	8.410e2		
2,3,4,7,8-PeCDF	26:02	ND	ND	ND	ND	4.653e2	9.118e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.91e7	1.20e7	3.05e6	1.95e6	3.658e3	1.372e3	1.59	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	5.438e2	5.462e2		

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	30:17	1.03e7	1.94e7	2.36e6	4.42e6	6.571e2	4.899e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:27	1.34e7	2.50e7	2.74e6	5.16e6	5.200e3	2.273e2	0.54	
2,3,4,6,7,8-HxCDF-13C	31:12	1.16e7	2.19e7	2.61e6	4.84e6	1.149e3	8.098e2	0.53	
1,2,3,7,8,9-HxCDF-13C	32:13	9.57e6	1.90e7	1.96e6	3.80e6	2.081e3	8.626e3	0.50	
1,2,3,4,7,8-HxCDF	30:18	ND	ND	ND	ND	5.799e2	7.797e2		
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	6.415e2	8.555e2		

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Client Name	PASI Wisconsin		
Client ID	MAK117C	Injected By	BAL
Lab ID	10260486006	Instrument ID	10MSHR09 (P)
Filename	P140321B_14	GC Column ID	USC473217H
Analyzed	03/22/2014 00:37	ICAL ID	P130624

2,3,4,6,7,8-HxCDF	31:13	9.32e3	5.05e3	2.99e3	2.00e3	6.415e2	5.896e2	1.85	I
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	6.167e2	8.033e2		

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	31:24	1.20e7	9.42e6	3.07e6	2.44e6	2.268e3	1.011e3	1.27	
1,2,3,6,7,8-HxCDD-13C	31:32	1.36e7	1.10e7	2.90e6	2.41e6	9.049e2	4.828e2	1.24	
1,2,3,7,8,9-HxCDD-13C	31:51	1.72e7	1.38e7	3.56e6	2.86e6	3.195e3	5.218e3	1.24	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	6.092e2	7.644e2		
1,2,3,6,7,8-HxCDD	31:33	1.15e4	9.04e3	3.33e3	2.47e3	6.790e2	7.644e2	1.27	
1,2,3,7,8,9-HxCDD	31:52	7.59e3	5.30e3	1.78e3	1.36e3	7.356e2	5.495e2	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	33:59	7.35e6	1.62e7	1.77e6	3.78e6	2.163e3	3.595e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:39	5.58e6	1.22e7	1.26e6	2.89e6	2.613e3	7.885e3	0.46	
1,2,3,4,6,7,8-HpCDF	34:00	7.98e3	1.02e4	2.21e3	3.33e3	6.922e2	6.154e2	0.78	I
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	7.052e2	5.836e2		

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	35:10	9.27e6	8.63e6	2.18e6	2.02e6	2.855e3	2.711e3	1.07	
1,2,3,4,6,7,8-HpCDD	35:10	4.70e4	5.09e4	1.24e4	1.20e4	6.348e2	4.981e2	0.92	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:09	5.97e3	6.87e3	1.31e3	2.17e3	6.848e2	8.308e2	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:60	1.18e7	1.36e7	2.79e6	3.13e6	1.887e3	1.704e3	0.87	
OCDD	37:60	1.10e5	1.14e5	3.30e4	3.65e4	8.379e2	1.037e3	0.96	

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PCDD/PCDF Detected Peak List

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Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK118C	Injected By	BAL
Lab ID	10260486007	Instrument ID	10MSHR09 (P)
Filename	P140321B_15	GC Column ID	USC473217H
Analyzed	03/22/2014 01:20	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:27	3.35e7	4.26e7	5.85e6	7.29e6	8.622e3	4.397e3	0.79	
2,3,7,8-TCDF		17:28	2.10e4	3.50e4	6.52e3	6.80e3	9.539e2	1.032e3	0.60	I
Other TCDF	1	16:38	2.45e4	3.31e4					0.74	
	2	16:14	2.69e4	3.85e4					0.70	
	3	16:03	1.21e4	1.40e4					0.87	
	4	15:24	1.96e4	2.25e4					0.87	
	5	14:33	9.40e4	1.10e5					0.86	
	6	14:10	2.35e4	2.92e4					0.81	
	7	13:52	9.97e3	1.21e4					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	17:37	2.86e7	3.56e7	5.30e6	6.71e6	4.347e3	1.090e3	0.80	
2,3,7,8-TCDD-13C	18:21	2.36e7	2.98e7	4.02e6	5.00e6	5.318e3	6.578e3	0.79	
2,3,7,8-TCDD-37Cl4	18:23	5.71e6		9.03e5		2.100e3	-----		
2,3,7,8-TCDD	18:23	ND	ND	ND	ND	6.813e2	6.874e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:13	3.39e7	2.15e7	4.51e6	2.88e6	1.031e3	7.607e3	1.58	
2,3,4,7,8-PeCDF-13C	25:60	3.18e7	2.00e7	5.17e6	3.19e6	6.693e3	7.371e3	1.59	
1,2,3,7,8-PeCDF	24:15	ND	ND	ND	ND	6.441e2	7.060e2		
2,3,4,7,8-PeCDF	26:02	1.02e4	6.80e3	2.45e3	1.61e3	5.478e2	6.337e2	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	26:30	2.14e7	1.34e7	3.52e6	2.26e6	3.169e3	1.336e3	1.60	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	5.527e2	5.219e2		

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	30:17	1.15e7	2.19e7	2.53e6	4.85e6	5.668e2	2.023e4	0.52	
1,2,3,6,7,8-HxCDF-13C	30:27	1.50e7	2.87e7	3.15e6	5.91e6	5.823e2	2.054e4	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK118C	Injected By	BAL
Lab ID	10260486007	Instrument ID	10MSHR09 (P)
Filename	P140321B_15	GC Column ID	USC473217H
Analyzed	03/22/2014 01:20	ICAL ID	P130624

2,3,4,6,7,8-HxCDF-13C		31:13	1.33e7	2.46e7	2.90e6	5.38e6	5.668e2	9.988e2	0.54	
1,2,3,7,8,9-HxCDF-13C		32:13	1.10e7	2.10e7	2.19e6	4.20e6	4.290e3	2.152e4	0.52	
1,2,3,4,7,8-HxCDF		30:18	ND	ND	ND	ND	5.674e2	5.416e2		
1,2,3,6,7,8-HxCDF		30:28	ND	ND	ND	ND	6.938e2	7.164e2		
2,3,4,6,7,8-HxCDF		31:12	7.99e3	6.38e3	1.91e3	1.09e3	9.030e2	4.720e2	1.25	
1,2,3,7,8,9-HxCDF		32:14	ND	ND	ND	ND	6.834e2	5.940e2		
Ethers	1	29:50	2.92e4	2.11e4					1.38	E

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		31:25	1.30e7	1.02e7	3.23e6	2.53e6	2.141e3	9.909e2	1.28	
1,2,3,6,7,8-HxCDD-13C		31:32	1.60e7	1.26e7	3.54e6	2.84e6	1.987e3	9.909e2	1.28	
1,2,3,7,8,9-HxCDD-13C		31:51	1.95e7	1.54e7	3.93e6	3.16e6	1.235e4	1.061e4	1.27	
1,2,3,4,7,8-HxCDD		31:25	6.96e3	6.60e3	1.14e3	1.89e3	5.669e2	5.457e2	1.05	
1,2,3,6,7,8-HxCDD		31:33	2.05e4	1.24e4	8.26e3	4.00e3	5.669e2	5.403e2	1.65	I
1,2,3,7,8,9-HxCDD		31:53	1.20e4	1.07e4	2.58e3	2.99e3	5.050e2	4.911e2	1.12	
Other HxCDD	1	30:34	6.45e3	5.83e3					1.11	
	2	30:27	7.27e3	6.62e3					1.10	
	3	30:17	8.81e3	7.66e3					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	33:59	8.34e6	1.87e7	2.06e6	4.57e6	2.170e3	3.533e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:40	6.13e6	1.36e7	1.48e6	3.16e6	2.170e3	1.492e4	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	8.66e3	5.71e3	4.42e3	3.17e3	5.997e2	5.832e2	1.52	I
1,2,3,4,7,8,9-HpCDF	35:41	ND	ND	ND	ND	5.840e2	5.256e2		

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		35:10	1.07e7	9.88e6	2.61e6	2.35e6	1.430e3	4.674e2	1.09	
1,2,3,4,6,7,8-HpCDD		35:11	8.23e4	8.47e4	1.80e4	2.67e4	8.524e2	7.945e2	0.97	
Other HpCDD	1	34:19	1.11e4	1.05e4					1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:09	ND	ND	ND	ND	9.138e2	6.940e2		

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Client Name	PASI Wisconsin		
Client ID	MAK118C	Injected By	BAL
Lab ID	10260486007	Instrument ID	10MSHR09 (P)
Filename	P140321B_15	GC Column ID	USC473217H
Analyzed	03/22/2014 01:20	ICAL ID	P130624

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:60	1.35e7	1.46e7	3.24e6	3.64e6	2.697e3	3.541e3	0.93	
OCDD	38:01	1.56e5	1.81e5	4.23e4	4.52e4	7.923e2	1.179e3	0.86	

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Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120C	Injected By	BAL
Lab ID	10260486008	Instrument ID	10MSHR09 (P)
Filename	P140321B_16	GC Column ID	USC473217H
Analyzed	03/22/2014 02:02	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:27	3.04e7	3.81e7	5.30e6	6.58e6	5.643e3	4.587e3	0.80	
2,3,7,8-TCDF		17:28	2.30e4	3.41e4	5.60e3	7.10e3	9.251e2	1.480e3	0.67	
Other TCDF	1	15:25	1.47e4	2.13e4					0.69	
	2	15:06	2.23e4	2.95e4					0.76	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		17:37	2.58e7	3.28e7	4.62e6	5.72e6	2.568e3	1.348e3	0.79	
2,3,7,8-TCDD-13C		18:20	2.15e7	2.68e7	3.39e6	4.36e6	5.845e3	3.564e3	0.80	
2,3,7,8-TCDD-37Cl4		18:22	5.19e6		8.51e5		1.066e3	-----		
2,3,7,8-TCDD		18:22	ND	ND	ND	ND	8.064e2	8.456e2		
Other TCDD	1	15:07	2.26e4	3.24e4					0.70	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:13	3.08e7	1.92e7	4.14e6	2.61e6	1.123e3	4.066e3	1.60	
2,3,4,7,8-PeCDF-13C	25:59	2.95e7	1.83e7	4.76e6	2.95e6	4.833e3	4.969e3	1.61	
1,2,3,7,8-PeCDF	24:15	ND	ND	ND	ND	8.561e2	6.117e2		
2,3,4,7,8-PeCDF	26:01	7.54e3	7.29e3	2.03e3	1.56e3	5.009e2	7.368e2	1.03	I

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.94e7	1.22e7	3.21e6	1.97e6	3.413e3	1.051e3	1.58	
1,2,3,7,8-PeCDD	26:31	5.51e3	7.84e3	6.99e3	1.92e3	5.558e2	3.742e2	0.70	

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	30:17	1.06e7	1.93e7	2.33e6	4.63e6	7.667e2	9.101e2	0.55	
1,2,3,6,7,8-HxCDF-13C	30:27	1.34e7	2.61e7	2.68e6	5.00e6	5.599e2	1.411e3	0.51	
2,3,4,6,7,8-HxCDF-13C	31:12	1.18e7	2.18e7	2.65e6	4.85e6	7.667e2	9.768e2	0.54	
1,2,3,7,8,9-HxCDF-13C	32:13	9.83e6	1.86e7	1.95e6	3.74e6	7.013e2	1.033e4	0.53	
1,2,3,4,7,8-HxCDF	30:18	ND	ND	ND	ND	7.918e2	7.789e2		
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	8.304e2	7.789e2		

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Client Name	PASI Wisconsin		
Client ID	MAK120C	Injected By	BAL
Lab ID	10260486008	Instrument ID	10MSHR09 (P)
Filename	P140321B_16	GC Column ID	USC473217H
Analyzed	03/22/2014 02:02	ICAL ID	P130624

2,3,4,6,7,8-HxCDF		31:13	9.74e3	8.14e3	5.01e3	1.68e3	8.394e2	7.789e2	1.20	
1,2,3,7,8,9-HxCDF		32:14	ND	ND	ND	ND	7.421e2	5.929e2		
Other HxCDF	1	29:21	7.41e3	6.06e3					1.22	

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		31:24	1.19e7	9.40e6	3.10e6	2.42e6	1.537e3	1.496e3	1.27	
1,2,3,6,7,8-HxCDD-13C		31:31	1.49e7	1.13e7	3.08e6	2.44e6	2.733e3	3.311e3	1.31	
1,2,3,7,8,9-HxCDD-13C		31:51	1.79e7	1.38e7	3.53e6	2.81e6	3.013e3	1.167e4	1.29	
1,2,3,4,7,8-HxCDD		31:24	7.77e3	6.86e3	1.19e3	1.44e3	5.004e2	5.095e2	1.13	
1,2,3,6,7,8-HxCDD		31:33	1.99e4	1.21e4	4.06e3	3.27e3	7.907e2	4.636e2	1.64	I
1,2,3,7,8,9-HxCDD		31:52	1.20e4	6.58e3	2.21e3	1.55e3	7.271e2	6.189e2	1.82	I
Other HxCDD	1	30:34	8.37e3	6.75e3					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	33:59	7.41e6	1.63e7	1.77e6	3.86e6	3.029e3	3.966e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	5.59e6	1.25e7	1.38e6	2.99e6	1.611e3	3.372e3	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	1.10e4	1.16e4	4.20e3	3.12e3	7.078e2	5.178e2	0.94	
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	5.907e2	5.592e2		

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		35:09	9.44e6	8.79e6	2.28e6	2.12e6	7.331e2	4.140e2	1.07	
1,2,3,4,6,7,8-HpCDD		35:10	7.02e4	8.47e4	1.76e4	2.09e4	8.622e2	1.048e3	0.83	I
Other HpCDD	1	34:20	1.39e4	1.19e4					1.17	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	9.10e3	9.26e3	3.83e3	1.95e3	8.120e2	4.078e2	0.98	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.20e7	1.31e7	2.85e6	3.18e6	2.143e3	2.550e3	0.91	
OCDD	37:60	1.42e5	1.55e5	4.17e4	4.20e4	8.555e2	8.543e2	0.91	

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK120C	Injected By	BAL
Lab ID	10260486008	Instrument ID	10MSHR09 (P)
Filename	P140321B_16	GC Column ID	USC473217H
Analyzed	03/22/2014 02:02	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120L	Injected By	BAL
Lab ID	10260486009	Instrument ID	10MSHR09 (P)
Filename	P140322B_04	GC Column ID	USC473217H
Analyzed	03/22/2014 14:19	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	2.95e7	3.71e7	4.94e6	6.29e6	8.961e3	6.970e3	0.80	
2,3,7,8-TCDF	17:27	2.73e4	3.14e4	4.68e3	5.73e3	1.397e3	1.723e3	0.87	E
Ethers 1	17:27	2.73e4	3.14e4					0.87	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:35	2.40e7	3.03e7	4.47e6	5.70e6	4.005e3	4.236e3	0.79	
2,3,7,8-TCDD-13C	18:19	2.07e7	2.62e7	3.39e6	4.25e6	4.607e3	6.472e3	0.79	
2,3,7,8-TCDD-37Cl4	18:21	4.94e6		8.17e5		1.519e3	-----		
2,3,7,8-TCDD	18:21	ND	ND	ND	ND	1.717e3	9.251e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:12	3.11e7	1.95e7	4.05e6	2.56e6	8.875e3	2.359e3	1.60	
2,3,4,7,8-PeCDF-13C	25:58	2.99e7	1.87e7	4.81e6	3.00e6	8.375e3	6.173e3	1.60	
1,2,3,7,8-PeCDF	24:13	ND	ND	ND	ND	9.954e2	1.003e3		
2,3,4,7,8-PeCDF	25:60	ND	ND	ND	ND	6.449e2	1.045e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:28	2.05e7	1.30e7	3.26e6	2.04e6	2.938e3	8.925e2	1.58	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	8.977e2	1.151e3		

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	30:16	1.06e7	2.03e7	2.38e6	4.41e6	5.994e2	5.233e2	0.52	
1,2,3,6,7,8-HxCDF-13C	30:26	1.41e7	2.67e7	2.70e6	5.23e6	5.994e2	8.295e2	0.53	
2,3,4,6,7,8-HxCDF-13C	31:12	1.22e7	2.31e7	2.50e6	4.71e6	3.905e3	2.113e4	0.53	
1,2,3,7,8,9-HxCDF-13C	32:12	1.06e7	1.99e7	1.99e6	3.82e6	4.926e3	7.246e3	0.53	
1,2,3,4,7,8-HxCDF	30:18	ND	ND	ND	ND	7.722e2	9.692e2		
1,2,3,6,7,8-HxCDF	30:26	7.51e3	6.62e3	1.41e3	1.47e3	7.249e2	7.387e2	1.14	
2,3,4,6,7,8-HxCDF	31:12	6.56e3	5.81e3	1.57e3	1.24e3	6.221e2	7.872e2	1.13	

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Client Name	PASI Wisconsin		
Client ID	MAK120L	Injected By	BAL
Lab ID	10260486009	Instrument ID	10MSHR09 (P)
Filename	P140322B_04	GC Column ID	USC473217H
Analyzed	03/22/2014 14:19	ICAL ID	P130624

1,2,3,7,8,9-HxCDF		32:14	ND	ND	ND	ND	6.986e2	6.359e2		
Other HxCDF	1	29:37	1.04e4	8.90e3					1.17	
	2	28:50	1.14e4	1.03e4					1.11	

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		31:24	1.23e7	9.69e6	2.93e6	2.31e6	7.729e2	1.565e3	1.27	
1,2,3,6,7,8-HxCDD-13C		31:31	1.59e7	1.23e7	3.12e6	2.38e6	1.976e3	1.585e3	1.29	
1,2,3,7,8,9-HxCDD-13C		31:50	1.82e7	1.42e7	3.29e6	2.66e6	1.336e4	1.600e4	1.28	
1,2,3,4,7,8-HxCDD		31:25	ND	ND	ND	ND	8.031e2	1.078e3		
1,2,3,6,7,8-HxCDD		31:32	ND	ND	ND	ND	9.248e2	1.078e3		
1,2,3,7,8,9-HxCDD		31:51	ND	ND	ND	ND	6.030e2	8.250e2		
Other HxCDD	1	30:14	9.72e3	8.87e3					1.10	

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		33:58	7.93e6	1.73e7	1.76e6	3.91e6	6.824e3	8.394e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C		35:38	6.05e6	1.41e7	1.21e6	2.78e6	4.188e3	7.392e3	0.43	
1,2,3,4,6,7,8-HpCDF		33:59	1.73e4	2.03e4	7.37e3	4.49e3	7.915e2	6.052e2	0.85	I
1,2,3,4,7,8,9-HpCDF		35:38	ND	ND	ND	ND	1.094e3	7.307e2		
Other HpCDF	1	34:28	2.04e4	2.21e4					0.93	

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		35:09	1.08e7	1.01e7	2.16e6	2.07e6	9.629e2	9.107e3	1.07	
1,2,3,4,6,7,8-HpCDD		35:09	2.75e4	2.79e4	5.93e3	6.60e3	9.692e2	7.322e2	0.99	
Other HpCDD	1	34:19	3.35e4	3.42e4					0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	1.92e4	2.21e4	5.50e3	6.90e3	9.489e2	1.262e3	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.33e7	1.50e7	2.71e6	2.93e6	3.160e3	5.619e3	0.89	
OCDD	37:60	1.73e5	1.81e5	4.31e4	4.41e4	1.098e3	7.489e2	0.96	

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Client Name	PASI Wisconsin		
Client ID	MAK120L	Injected By	BAL
Lab ID	10260486009	Instrument ID	10MSHR09 (P)
Filename	P140322B_04	GC Column ID	USC473217H
Analyzed	03/22/2014 14:19	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK121L	Injected By	BAL
Lab ID	10260486010	Instrument ID	10MSHR09 (P)
Filename	P140322B_05	GC Column ID	USC473217H
Analyzed	03/22/2014 15:02	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:26	2.29e7	2.90e7	3.87e6	4.92e6	1.055e4	5.978e3	0.79	
2,3,7,8-TCDF		17:27	3.31e4	2.70e4	4.70e3	5.93e3	1.441e3	2.367e3	1.23	I
Other TCDF	1	14:30	5.47e4	7.83e4					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		17:35	1.94e7	2.48e7	3.60e6	4.66e6	3.993e3	4.513e3	0.78	
2,3,7,8-TCDD-13C		18:19	1.61e7	2.02e7	2.63e6	3.30e6	5.402e3	7.257e3	0.80	
2,3,7,8-TCDD-37Cl4		18:21	3.85e6		6.44e5		1.121e3	-----		
2,3,7,8-TCDD		18:21	ND	ND	ND	ND	8.327e2	6.941e2		
Other TCDD	1	15:04	2.63e4	2.99e4					0.88	

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		24:12	2.42e7	1.53e7	3.12e6	1.99e6	7.839e3	5.785e3	1.59	
2,3,4,7,8-PeCDF-13C		25:58	2.32e7	1.47e7	3.79e6	2.30e6	5.300e3	3.625e3	1.58	
1,2,3,7,8-PeCDF		24:13	ND	ND	ND	ND	8.564e2	7.558e2		
2,3,4,7,8-PeCDF		25:60	ND	ND	ND	ND	8.486e2	7.984e2		
Other PeCDF	1	22:24	4.58e4	3.31e4					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	26:28	1.62e7	1.02e7	2.53e6	1.59e6	1.361e3	1.651e3	1.58	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	7.409e2	8.993e2		

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	30:15	8.25e6	1.56e7	1.84e6	3.57e6	6.526e2	8.798e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.12e7	2.06e7	2.13e6	3.99e6	9.805e2	8.798e2	0.54	
2,3,4,6,7,8-HxCDF-13C	31:12	9.65e6	1.79e7	1.99e6	3.79e6	9.805e2	9.571e2	0.54	
1,2,3,7,8,9-HxCDF-13C	32:12	8.17e6	1.57e7	1.51e6	2.77e6	2.953e3	1.557e4	0.52	
1,2,3,4,7,8-HxCDF	30:17	ND	ND	ND	ND	7.067e2	5.301e2		
1,2,3,6,7,8-HxCDF	30:27	ND	ND	ND	ND	7.524e2	7.289e2		

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Client Name	PASI Wisconsin		
Client ID	MAK121L	Injected By	BAL
Lab ID	10260486010	Instrument ID	10MSHR09 (P)
Filename	P140322B_05	GC Column ID	USC473217H
Analyzed	03/22/2014 15:02	ICAL ID	P130624

2,3,4,6,7,8-HxCDF	31:12	ND	ND	ND	ND	7.994e2	6.705e2		
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	5.272e2	7.621e2		

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	31:24	9.41e6	7.38e6	2.39e6	1.88e6	9.233e2	2.142e3	1.28	
1,2,3,6,7,8-HxCDD-13C	31:31	1.22e7	9.63e6	2.41e6	1.91e6	2.092e3	2.056e3	1.27	
1,2,3,7,8,9-HxCDD-13C	31:50	1.48e7	1.12e7	2.73e6	2.17e6	9.262e3	5.346e3	1.32	
1,2,3,4,7,8-HxCDD	31:24	ND	ND	ND	ND	7.201e2	8.798e2		
1,2,3,6,7,8-HxCDD	31:31	ND	ND	ND	ND	7.492e2	6.254e2		
1,2,3,7,8,9-HxCDD	31:51	ND	ND	ND	ND	7.736e2	8.075e2		

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	33:58	6.23e6	1.35e7	1.37e6	3.05e6	1.034e3	3.943e3	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:38	4.77e6	1.04e7	9.77e5	2.17e6	1.065e3	6.201e3	0.46	
1,2,3,4,6,7,8-HpCDF	33:58	9.46e3	7.34e3	4.85e3	3.04e3	8.987e2	5.816e2	1.29	I
1,2,3,4,7,8,9-HpCDF	35:38	ND	ND	ND	ND	8.315e2	5.816e2		

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	35:08	8.34e6	7.55e6	1.77e6	1.60e6	5.482e3	5.991e3	1.10	
1,2,3,4,6,7,8-HpCDD	35:08	1.33e4	1.32e4	3.63e3	4.49e3	7.126e2	6.298e2	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	8.90e3	7.33e3	2.49e3	2.48e3	7.297e2	7.650e2	1.21	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.03e7	1.13e7	1.98e6	2.20e6	3.841e3	3.252e3	0.91	
OCDD	38:01	6.09e4	6.27e4	1.45e4	1.93e4	9.428e2	1.105e3	0.97	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK122L	Injected By	BAL
Lab ID	10260486011	Instrument ID	10MSHR09 (P)
Filename	P140322B_06	GC Column ID	USC473217H
Analyzed	03/22/2014 15:44	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:26	2.61e7	3.25e7	4.26e6	5.31e6	9.346e3	6.336e3	0.80	
2,3,7,8-TCDF		17:27	2.00e4	2.72e4	3.57e3	4.67e3	1.561e3	1.362e3	0.74	E
Ethers	1	17:27	2.00e4	2.72e4					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		17:35	2.38e7	2.90e7	4.30e6	5.33e6	3.200e3	5.908e3	0.82	
2,3,7,8-TCDD-13C		18:19	1.84e7	2.34e7	2.99e6	3.76e6	4.338e3	7.048e3	0.79	
2,3,7,8-TCDD-37Cl4		18:21	4.54e6		7.30e5		1.200e3	-----		
2,3,7,8-TCDD		18:21	ND	ND	ND	ND	9.583e2	1.245e3		
Other TCDD	1	15:04	3.27e4	4.39e4					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	24:12	2.73e7	1.73e7	3.66e6	2.27e6	1.191e3	5.404e3	1.57	
2,3,4,7,8-PeCDF-13C	25:58	2.65e7	1.67e7	4.18e6	2.64e6	5.068e3	3.961e3	1.59	
1,2,3,7,8-PeCDF	24:13	ND	ND	ND	ND	4.902e2	7.780e2		
2,3,4,7,8-PeCDF	25:60	ND	ND	ND	ND	4.956e2	8.688e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:28	1.86e7	1.14e7	2.95e6	1.83e6	3.349e3	1.467e3	1.63	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	7.547e2	5.817e2		

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	30:16	9.53e6	1.81e7	2.10e6	3.87e6	6.301e2	6.344e2	0.53	
1,2,3,6,7,8-HxCDF-13C	30:26	1.26e7	2.42e7	2.46e6	4.62e6	6.770e2	9.064e2	0.52	
2,3,4,6,7,8-HxCDF-13C	31:12	1.10e7	2.12e7	2.38e6	4.44e6	2.064e2	5.179e2	0.52	
1,2,3,7,8,9-HxCDF-13C	32:12	9.43e6	1.79e7	1.77e6	3.39e6	4.317e3	5.703e3	0.53	
1,2,3,4,7,8-HxCDF	30:18	ND	ND	ND	ND	7.740e2	5.516e2		
1,2,3,6,7,8-HxCDF	30:26	9.15e3	5.72e3	1.98e3	9.94e2	4.411e2	6.704e2	1.60	I

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK122L	Injected By	BAL
Lab ID	10260486011	Instrument ID	10MSHR09 (P)
Filename	P140322B_06	GC Column ID	USC473217H
Analyzed	03/22/2014 15:44	ICAL ID	P130624

2,3,4,6,7,8-HxCDF		31:12	3.70e3	3.62e3	9.47e2	1.82e3	6.866e2	5.934e2	1.02	I
1,2,3,7,8,9-HxCDF		32:14	ND	ND	ND	ND	6.171e2	6.031e2		
Other HxCDF	1	31:01	6.79e3	6.13e3					1.11	

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	31:24	1.14e7	8.99e6	2.76e6	2.17e6	1.790e3	1.252e3	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	1.35e7	1.08e7	2.71e6	2.18e6	1.096e3	9.651e2	1.24	
1,2,3,7,8,9-HxCDD-13C	31:50	1.71e7	1.35e7	3.21e6	2.53e6	8.315e3	1.740e4	1.27	
1,2,3,4,7,8-HxCDD	31:24	ND	ND	ND	ND	7.351e2	1.056e3		
1,2,3,6,7,8-HxCDD	31:32	ND	ND	ND	ND	6.748e2	7.565e2		
1,2,3,7,8,9-HxCDD	31:51	ND	ND	ND	ND	8.366e2	8.483e2		

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	33:58	6.95e6	1.57e7	1.62e6	3.51e6	2.353e3	2.769e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:38	5.38e6	1.20e7	1.23e6	2.68e6	1.648e3	4.678e3	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	ND	ND	ND	ND	5.806e2	6.934e2		
1,2,3,4,7,8,9-HpCDF	35:38	ND	ND	ND	ND	4.955e2	8.068e2		

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	35:09	9.55e6	8.67e6	1.98e6	1.82e6	6.301e2	4.637e3	1.10	
1,2,3,4,6,7,8-HpCDD	35:10	1.38e4	7.27e3	3.92e3	2.14e3	8.275e2	6.844e2	1.90	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	1.03e4	9.73e3	2.94e3	4.85e3	6.754e2	8.671e2	1.06	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.15e7	1.26e7	2.42e6	2.58e6	3.128e3	2.580e3	0.91	
OCDD	37:60	3.70e4	4.91e4	1.02e4	1.41e4	7.909e2	1.388e3	0.75	I

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Client Name	PASI Wisconsin		
Client ID	MAK122L	Injected By	BAL
Lab ID	10260486011	Instrument ID	10MSHR09 (P)
Filename	P140322B_06	GC Column ID	USC473217H
Analyzed	03/22/2014 15:44	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK123L	Injected By	BAL
Lab ID	10260486012	Instrument ID	10MSHR09 (P)
Filename	P140322B_07	GC Column ID	USC473217H
Analyzed	03/22/2014 16:27	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	3.82e7	4.77e7	6.67e6	8.38e6	8.866e3	5.499e3	0.80	
2,3,7,8-TCDF	17:27	ND	ND	ND	ND	1.601e3	1.556e3		
Other TCDF 1	14:31	8.28e4	1.21e5					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	17:36	2.86e7	3.61e7	5.26e6	6.64e6	2.687e3	2.050e3	0.79	
2,3,7,8-TCDD-13C	18:19	2.76e7	3.43e7	4.38e6	5.57e6	4.393e3	3.100e3	0.80	
2,3,7,8-TCDD-37Cl4	18:21	6.56e6		1.12e6		1.228e3	-----		
2,3,7,8-TCDD	18:21	ND	ND	ND	ND	1.369e3	1.020e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:12	4.13e7	2.60e7	5.53e6	3.49e6	1.394e3	1.933e3	1.59	
2,3,4,7,8-PeCDF-13C	25:58	3.98e7	2.51e7	6.44e6	3.97e6	7.261e3	2.023e3	1.59	
1,2,3,7,8-PeCDF	24:13	ND	ND	ND	ND	6.340e2	1.013e3		
2,3,4,7,8-PeCDF	25:60	ND	ND	ND	ND	7.448e2	9.222e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:28	2.75e7	1.74e7	4.31e6	2.76e6	1.347e3	1.977e3	1.58	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	6.673e2	9.347e2		

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	30:16	1.42e7	2.72e7	3.18e6	6.03e6	6.483e2	1.089e3	0.52	
1,2,3,6,7,8-HxCDF-13C	30:26	1.87e7	3.55e7	3.71e6	6.93e6	6.918e2	1.089e3	0.53	
2,3,4,6,7,8-HxCDF-13C	31:12	1.65e7	3.07e7	3.39e6	6.42e6	3.040e2	9.733e2	0.54	
1,2,3,7,8,9-HxCDF-13C	32:12	1.40e7	2.80e7	2.73e6	5.18e6	1.261e4	1.698e4	0.50	
1,2,3,4,7,8-HxCDF	30:18	ND	ND	ND	ND	6.465e2	7.916e2		
1,2,3,6,7,8-HxCDF	30:27	ND	ND	ND	ND	7.372e2	6.123e2		
2,3,4,6,7,8-HxCDF	31:13	ND	ND	ND	ND	6.818e2	5.832e2		
1,2,3,7,8,9-HxCDF	32:14	ND	ND	ND	ND	6.180e2	6.552e2		

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Client Name	PASI Wisconsin		
Client ID	MAK123L	Injected By	BAL
Lab ID	10260486012	Instrument ID	10MSHR09 (P)
Filename	P140322B_07	GC Column ID	USC473217H
Analyzed	03/22/2014 16:27	ICAL ID	P130624

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	31:25	1.68e7	1.32e7	4.13e6	3.17e6	2.247e3	9.269e2	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	2.04e7	1.61e7	4.09e6	3.26e6	1.010e3	5.659e2	1.27	
1,2,3,7,8,9-HxCDD-13C	31:50	2.20e7	1.69e7	4.01e6	3.20e6	4.174e3	1.243e4	1.30	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	8.867e2	8.227e2		
1,2,3,6,7,8-HxCDD	31:32	ND	ND	ND	ND	1.063e3	9.837e2		
1,2,3,7,8,9-HxCDD	31:51	ND	ND	ND	ND	1.036e3	6.521e2		

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	33:59	1.00e7	2.27e7	2.31e6	5.01e6	5.535e3	3.403e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:39	7.96e6	1.82e7	1.80e6	3.86e6	1.394e3	3.403e3	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	9.90e3	7.40e3	3.24e3	2.34e3	6.247e2	7.400e2	1.34	I
1,2,3,4,7,8,9-HpCDF	35:39	ND	ND	ND	ND	6.098e2	6.953e2		

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	35:09	1.40e7	1.32e7	3.11e6	2.94e6	1.094e3	9.626e3	1.07	
1,2,3,4,6,7,8-HpCDD	35:10	1.85e4	1.33e4	5.46e3	3.20e3	7.798e2	7.941e2	1.39	I
Other HpCDD 1	34:19	1.61e4	1.61e4					1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:09	1.03e4	1.44e4	3.61e3	2.99e3	8.860e2	1.019e3	0.72	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.69e7	1.91e7	3.44e6	3.84e6	9.829e2	8.507e3	0.88	
OCDD	37:60	8.24e4	9.54e4	2.55e4	2.48e4	1.067e3	1.391e3	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK124L	Injected By	BAL
Lab ID	10260486013	Instrument ID	10MSHR09 (P)
Filename	P140322B_08	GC Column ID	USC473217H
Analyzed	03/22/2014 17:10	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	3.76e7	4.70e7	6.50e6	7.97e6	8.567e3	8.725e3	0.80	
2,3,7,8-TCDF	17:27	ND	ND	ND	ND	2.377e3	2.225e3		

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:35	3.02e7	3.82e7	5.53e6	6.96e6	4.531e3	2.586e3	0.79	
2,3,7,8-TCDD-13C	18:19	2.63e7	3.37e7	4.30e6	5.42e6	1.136e4	4.095e3	0.78	
2,3,7,8-TCDD-37Cl4	18:20	6.04e6		1.01e6		1.489e3	-----		
2,3,7,8-TCDD	18:21	ND	ND	ND	ND	9.159e2	1.073e3		
Other TCDD 1	15:04	3.93e4	4.45e4					0.88	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:11	3.92e7	2.46e7	5.15e6	3.24e6	6.743e3	2.442e3	1.60	
2,3,4,7,8-PeCDF-13C	25:58	3.70e7	2.34e7	6.13e6	3.89e6	1.077e4	3.634e3	1.58	
1,2,3,7,8-PeCDF	24:13	ND	ND	ND	ND	7.813e2	7.601e2		
2,3,4,7,8-PeCDF	25:60	ND	ND	ND	ND	7.999e2	1.038e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:28	2.65e7	1.64e7	4.18e6	2.59e6	2.292e3	1.918e3	1.62	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	7.134e2	6.509e2		

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	30:15	1.40e7	2.66e7	3.12e6	5.99e6	5.567e2	1.071e3	0.52	
1,2,3,6,7,8-HxCDF-13C	30:25	1.87e7	3.47e7	3.80e6	7.05e6	5.643e2	7.592e2	0.54	
2,3,4,6,7,8-HxCDF-13C	31:12	1.56e7	2.94e7	3.29e6	6.14e6	8.336e2	1.386e3	0.53	
1,2,3,7,8,9-HxCDF-13C	32:11	1.40e7	2.67e7	2.65e6	5.09e6	5.801e3	7.440e3	0.52	
1,2,3,4,7,8-HxCDF	30:17	ND	ND	ND	ND	6.824e2	6.627e2		
1,2,3,6,7,8-HxCDF	30:26	9.55e3	8.04e3	2.53e3	2.43e3	8.098e2	7.603e2	1.19	
2,3,4,6,7,8-HxCDF	31:10	5.76e3	6.69e3	2.15e3	3.04e3	7.936e2	7.729e2	0.86	I
1,2,3,7,8,9-HxCDF	32:13	ND	ND	ND	ND	6.239e2	6.987e2		

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Client Name	PASI Wisconsin		
Client ID	MAK124L	Injected By	BAL
Lab ID	10260486013	Instrument ID	10MSHR09 (P)
Filename	P140322B_08	GC Column ID	USC473217H
Analyzed	03/22/2014 17:10	ICAL ID	P130624

Other HxCDF	1	28:53	2.64e4	2.22e4					1.19	
Ethers	1	30:59	1.25e4	1.03e4					1.21	E

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	31:24	1.62e7	1.26e7	4.00e6	3.21e6	9.893e2	1.347e3	1.28	
1,2,3,6,7,8-HxCDD-13C	31:31	1.99e7	1.58e7	3.98e6	3.18e6	2.231e3	1.924e3	1.26	
1,2,3,7,8,9-HxCDD-13C	31:50	2.29e7	1.80e7	4.27e6	3.45e6	1.003e4	1.520e4	1.27	
1,2,3,4,7,8-HxCDD	31:24	ND	ND	ND	ND	6.142e2	7.087e2		
1,2,3,6,7,8-HxCDD	31:31	1.07e4	5.11e3	3.77e3	8.01e2	7.755e2	8.942e2	2.09	I
1,2,3,7,8,9-HxCDD	31:50	ND	ND	ND	ND	8.960e2	9.520e2		
Other HxCDD 1	31:10	9.05e3	7.06e3					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	33:58	1.00e7	2.27e7	2.40e6	5.18e6	4.057e3	8.890e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:38	8.06e6	1.82e7	1.76e6	3.88e6	4.057e3	3.978e3	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	3.49e4	3.55e4	1.11e4	1.03e4	1.179e3	9.800e2	0.98	
1,2,3,4,7,8,9-HpCDF	35:38	ND	ND	ND	ND	1.199e3	1.198e3		
Other HpCDF 1	34:28	6.22e4	5.45e4					1.14	

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	35:08	1.39e7	1.31e7	3.03e6	2.93e6	1.190e4	5.790e2	1.07	
1,2,3,4,6,7,8-HpCDD	35:09	8.75e4	9.15e4	2.09e4	2.14e4	1.215e3	1.138e3	0.96	
Other HpCDD 1	34:19	8.28e4	8.47e4					0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	5.10e4	5.87e4	1.48e4	1.35e4	1.158e3	1.560e3	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.76e7	2.02e7	3.60e6	3.90e6	4.437e3	1.025e4	0.87	
OCDD	37:59	6.39e5	6.70e5	1.20e5	1.46e5	1.199e3	1.229e3	0.95	

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Client Name	PASI Wisconsin		
Client ID	MAK124L	Injected By	BAL
Lab ID	10260486013	Instrument ID	10MSHR09 (P)
Filename	P140322B_08	GC Column ID	USC473217H
Analyzed	03/22/2014 17:10	ICAL ID	P130624

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK126L	Injected By	BAL
Lab ID	10260486014	Instrument ID	10MSHR09 (P)
Filename	P140322B_09	GC Column ID	USC473217H
Analyzed	03/22/2014 17:53	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:26	3.17e7	3.96e7	5.32e6	6.81e6	8.126e3	4.839e3	0.80	
2,3,7,8-TCDF		17:27	ND	ND	ND	ND	1.680e3	1.529e3		
Other TCDF	1	14:30	1.06e5	1.24e5					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		17:35	2.51e7	3.15e7	4.59e6	5.80e6	3.678e3	2.617e3	0.80	
2,3,7,8-TCDD-13C		18:19	2.19e7	2.77e7	3.56e6	4.52e6	6.652e3	9.538e3	0.79	
2,3,7,8-TCDD-37Cl4		18:20	5.28e6		8.67e5		1.785e3	-----		
2,3,7,8-TCDD		18:21	ND	ND	ND	ND	1.575e3	9.150e2		
Other TCDD	1	15:04	2.83e4	3.22e4					0.88	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:12	3.28e7	2.08e7	4.37e6	2.77e6	8.611e2	5.155e3	1.58	
2,3,4,7,8-PeCDF-13C	25:58	3.20e7	2.00e7	5.12e6	3.25e6	3.373e3	2.779e3	1.60	
1,2,3,7,8-PeCDF	24:13	ND	ND	ND	ND	9.187e2	9.127e2		
2,3,4,7,8-PeCDF	25:59	ND	ND	ND	ND	7.300e2	9.931e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:28	2.20e7	1.42e7	3.59e6	2.25e6	1.085e3	1.091e3	1.55	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	7.182e2	7.731e2		

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	30:15	1.15e7	2.20e7	2.65e6	4.94e6	6.705e2	6.752e2	0.52	
1,2,3,6,7,8-HxCDF-13C	30:25	1.52e7	2.92e7	2.98e6	5.68e6	4.621e2	7.579e2	0.52	
2,3,4,6,7,8-HxCDF-13C	31:12	1.31e7	2.54e7	2.98e6	5.53e6	4.184e2	6.086e2	0.52	
1,2,3,7,8,9-HxCDF-13C	32:12	1.16e7	2.22e7	2.31e6	4.29e6	2.293e3	9.073e3	0.52	
1,2,3,4,7,8-HxCDF	30:17	7.13e3	5.93e3	1.49e3	7.51e2	7.989e2	9.013e2	1.20	
1,2,3,6,7,8-HxCDF	30:28	1.08e4	7.15e3	3.00e3	1.23e3	9.217e2	7.571e2	1.51	I
2,3,4,6,7,8-HxCDF	31:12	7.62e3	6.74e3	1.42e3	1.14e3	8.415e2	7.939e2	1.13	

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Client Name	PASI Wisconsin		
Client ID	MAK126L	Injected By	BAL
Lab ID	10260486014	Instrument ID	10MSHR09 (P)
Filename	P140322B_09	GC Column ID	USC473217H
Analyzed	03/22/2014 17:53	ICAL ID	P130624

1,2,3,7,8,9-HxCDF		32:14	ND	ND	ND	ND	7.989e2	8.212e2		
Other HxCDF	1	30:59	7.57e3	7.16e3					1.06	
	2	28:50	2.23e4	1.98e4					1.13	

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		31:24	1.38e7	1.11e7	3.36e6	2.62e6	6.343e2	4.838e2	1.25	
1,2,3,6,7,8-HxCDD-13C		31:31	1.63e7	1.30e7	3.35e6	2.71e6	3.695e3	1.242e3	1.25	
1,2,3,7,8,9-HxCDD-13C		31:50	1.88e7	1.45e7	3.57e6	2.92e6	8.473e3	7.901e3	1.30	
1,2,3,4,7,8-HxCDD		31:24	ND	ND	ND	ND	7.574e2	9.068e2		
1,2,3,6,7,8-HxCDD		31:32	8.48e3	6.83e3	2.25e3	1.11e3	6.838e2	1.071e3	1.24	
1,2,3,7,8,9-HxCDD		31:51	ND	ND	ND	ND	8.397e2	8.182e2		
Other HxCDD	1	31:11	8.34e3	7.50e3					1.11	
	2	30:33	1.69e4	1.31e4					1.28	
	3	30:14	8.35e3	6.22e3					1.34	
	4	29:25	1.32e4	9.57e3					1.38	

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	33:58	8.38e6	1.84e7	1.96e6	4.35e6	4.432e3	1.021e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:38	6.82e6	1.57e7	1.54e6	3.39e6	2.508e3	2.816e3	0.43	
1,2,3,4,6,7,8-HpCDF	33:59	3.26e4	3.49e4	7.42e3	9.41e3	1.029e3	6.166e2	0.94	
1,2,3,4,7,8,9-HpCDF	35:38	ND	ND	ND	ND	1.279e3	9.625e2		

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		35:09	1.18e7	1.10e7	2.59e6	2.39e6	2.820e3	7.977e2	1.07	
1,2,3,4,6,7,8-HpCDD		35:11	7.07e4	6.61e4	1.89e4	1.85e4	1.152e3	1.299e3	1.07	
Other HpCDD	1	34:19	8.00e4	7.39e4					1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	4.68e4	5.05e4	1.19e4	1.34e4	8.967e2	1.145e3	0.93	

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	MAK126L	Injected By	BAL
Lab ID	10260486014	Instrument ID	10MSHR09 (P)
Filename	P140322B_09	GC Column ID	USC473217H
Analyzed	03/22/2014 17:53	ICAL ID	P130624

OCDD-13C	37:59	1.45e7	1.62e7	3.07e6	3.36e6	3.657e3	2.993e3	0.89
OCDD	37:60	4.93e5	5.64e5	1.00e5	1.19e5	6.807e2	1.562e3	0.87

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK127L	Injected By	BAL
Lab ID	10260486015	Instrument ID	10MSHR06 (U)
Filename	U140328B_13	GC Column ID	USD397111H
Analyzed	03/29/2014 02:11	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:16	2.32e8	2.93e8	3.96e7	5.02e7	2.872e4	2.791e4	0.79	
2,3,7,8-TCDF	21:17	1.83e5	1.83e5	2.64e4	3.34e4	9.727e3	4.516e3	1.00	I

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:33	2.02e8	2.59e8	3.50e7	4.50e7	2.749e4	9.814e3	0.78	
2,3,7,8-TCDD-13C		22:24	1.85e8	2.31e8	2.96e7	3.85e7	2.634e4	3.483e4	0.80	
2,3,7,8-TCDD-37Cl4		22:26	4.59e7		7.46e6		7.613e3	-----		
2,3,7,8-TCDD		22:26	ND	ND	ND	ND	3.818e3	4.358e3		
Other TCDD	1	18:21	2.37e5	3.41e5					0.69	
	2	18:42	1.57e5	2.07e5					0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:12	2.62e8	1.66e8	5.01e7	3.18e7	7.068e4	5.624e4	1.58	
2,3,4,7,8-PeCDF-13C	30:40	2.58e8	1.63e8	6.19e7	4.06e7	1.403e4	1.745e4	1.58	
1,2,3,7,8-PeCDF	29:15	3.23e4	5.17e4	9.16e3	1.61e4	3.014e3	3.687e3	0.63	I
2,3,4,7,8-PeCDF	30:40	6.80e4	5.20e4	1.57e4	1.15e4	2.855e3	3.527e3	1.31	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	31:06	2.05e8	1.34e8	4.99e7	3.21e7	5.253e4	3.835e4	1.53	
1,2,3,7,8-PeCDD	31:07	ND	ND	ND	ND	3.234e3	3.507e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:59	1.01e8	1.96e8	3.36e7	6.68e7	1.574e4	2.228e5	0.51	
1,2,3,6,7,8-HxCDF-13C	34:07	1.16e8	2.28e8	3.94e7	7.38e7	5.996e3	2.228e5	0.51	
2,3,4,6,7,8-HxCDF-13C	34:39	1.01e8	1.96e8	3.66e7	7.19e7	3.739e3	4.254e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:24	9.11e7	1.77e8	3.29e7	6.43e7	7.943e3	1.992e4	0.52	
1,2,3,4,7,8-HxCDF	34:00	ND	ND	ND	ND	5.523e3	4.885e3		
1,2,3,6,7,8-HxCDF	34:08	ND	ND	ND	ND	6.463e3	4.214e3		
2,3,4,6,7,8-HxCDF	34:40	ND	ND	ND	ND	5.460e3	4.012e3		

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Client Name	PASI Wisconsin		
Client ID	MAK127L	Injected By	BAL
Lab ID	10260486015	Instrument ID	10MSHR06 (U)
Filename	U140328B_13	GC Column ID	USD397111H
Analyzed	03/29/2014 02:11	ICAL ID	U140322

1,2,3,7,8,9-HxCDF	35:25	ND	ND	ND	ND	5.909e3	5.549e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:49	1.46e8	1.15e8	5.16e7	4.11e7	2.393e4	2.081e4	1.27	
1,2,3,6,7,8-HxCDD-13C	34:54	1.49e8	1.20e8	5.45e7	4.40e7	3.327e4	1.451e4	1.24	
1,2,3,7,8,9-HxCDD-13C	35:08	1.81e8	1.49e8	6.49e7	5.38e7	6.670e3	1.281e4	1.21	
1,2,3,4,7,8-HxCDD	34:49	ND	ND	ND	ND	6.807e3	5.893e3		
1,2,3,6,7,8-HxCDD	34:55	3.74e4	8.59e4	8.62e3	1.92e4	5.326e3	5.854e3	0.44	I
1,2,3,7,8,9-HxCDD	35:08	1.95e4	3.73e4	7.19e3	1.25e4	5.588e3	5.471e3	0.52	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	8.06e7	1.79e8	3.35e7	7.35e7	1.794e4	2.721e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:57	6.22e7	1.38e8	2.22e7	5.08e7	1.502e4	1.561e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:39	1.27e5	8.33e4	3.84e4	2.10e4	9.430e3	4.748e3	1.52	I
1,2,3,4,7,8,9-HpCDF	37:57	6.54e4	6.46e4	2.24e4	2.46e4	9.165e3	4.671e3	1.01	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.07e8	1.01e8	3.86e7	3.60e7	1.680e4	1.555e4	1.06	
1,2,3,4,6,7,8-HpCDD	37:32	1.32e5	1.19e5	4.50e4	3.54e4	3.923e3	3.099e3	1.10	
Other HpCDD 1	36:53	1.60e5	1.71e5					0.93	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:18	1.89e5	1.98e5	3.94e4	3.98e4	6.036e3	7.026e3	0.96	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:06	1.61e8	1.79e8	5.01e7	5.56e7	2.070e4	2.317e4	0.90	
OCDD	40:07	5.91e5	6.64e5	1.68e5	1.84e5	9.011e3	1.268e4	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK128L	Injected By	BAL
Lab ID	10260486016	Instrument ID	10MSHR06 (U)
Filename	U140328B_14	GC Column ID	USD397111H
Analyzed	03/29/2014 02:56	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:14	2.89e8	3.70e8	5.15e7	6.46e7	4.107e4	1.961e4	0.78	
2,3,7,8-TCDF	21:16	2.90e5	2.01e5	4.26e4	4.31e4	1.116e4	5.789e3	1.44	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:31	2.69e8	3.31e8	4.58e7	5.65e7	1.600e4	1.120e4	0.81	
2,3,7,8-TCDD-13C	22:22	2.27e8	2.84e8	3.80e7	4.65e7	4.677e4	5.038e4	0.80	
2,3,7,8-TCDD-37Cl4	22:24	5.72e7		9.44e6		7.673e3	-----		
2,3,7,8-TCDD	22:24	ND	ND	ND	ND	3.260e3	3.948e3		
Other TCDD 1	18:19	2.92e5	4.19e5					0.70	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:12	3.31e8	2.14e8	6.57e7	4.24e7	6.915e4	3.043e4	1.55	
2,3,4,7,8-PeCDF-13C	30:39	3.30e8	2.14e8	7.92e7	5.22e7	2.376e4	2.735e4	1.54	
1,2,3,7,8-PeCDF	29:12	ND	ND	ND	ND	4.126e3	4.283e3		
2,3,4,7,8-PeCDF	30:40	ND	ND	ND	ND	3.295e3	3.256e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:04	2.68e8	1.73e8	7.03e7	4.48e7	7.826e4	1.312e4	1.55	
1,2,3,7,8-PeCDD	31:05	ND	ND	ND	ND	3.588e3	4.091e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:59	1.31e8	2.55e8	4.45e7	8.57e7	7.454e4	2.799e5	0.51	
1,2,3,6,7,8-HxCDF-13C	34:06	1.51e8	2.93e8	5.47e7	1.02e8	1.276e5	1.342e5	0.52	
2,3,4,6,7,8-HxCDF-13C	34:39	1.37e8	2.66e8	5.03e7	9.46e7	5.527e3	4.235e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:23	1.22e8	2.41e8	4.42e7	8.84e7	1.168e4	2.610e4	0.51	
1,2,3,4,7,8-HxCDF	34:00	ND	ND	ND	ND	6.308e3	4.997e3		
1,2,3,6,7,8-HxCDF	34:07	ND	ND	ND	ND	5.907e3	4.997e3		
2,3,4,6,7,8-HxCDF	34:40	ND	ND	ND	ND	5.800e3	3.882e3		
1,2,3,7,8,9-HxCDF	35:24	ND	ND	ND	ND	5.230e3	4.766e3		

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Client Name	PASI Wisconsin		
Client ID	MAK128L	Injected By	BAL
Lab ID	10260486016	Instrument ID	10MSHR06 (U)
Filename	U140328B_14	GC Column ID	USD397111H
Analyzed	03/29/2014 02:56	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:48	1.91e8	1.50e8	7.37e7	5.70e7	7.046e4	2.732e4	1.27	
1,2,3,6,7,8-HxCDD-13C	34:53	2.02e8	1.61e8	7.76e7	6.24e7	2.880e4	2.732e4	1.26	
1,2,3,7,8,9-HxCDD-13C	35:07	2.50e8	2.04e8	8.88e7	7.35e7	1.303e4	5.062e4	1.22	
1,2,3,4,7,8-HxCDD	34:48	ND	ND	ND	ND	5.915e3	7.752e3		
1,2,3,6,7,8-HxCDD	34:54	ND	ND	ND	ND	6.400e3	6.116e3		
1,2,3,7,8,9-HxCDD	35:08	ND	ND	ND	ND	5.611e3	6.353e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	1.12e8	2.55e8	4.30e7	9.79e7	2.542e4	2.537e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	37:57	9.60e7	2.13e8	3.39e7	7.55e7	8.763e4	1.942e5	0.45	
1,2,3,4,6,7,8-HpCDF	36:38	1.57e5	1.48e5	3.86e4	3.79e4	8.835e3	4.900e3	1.06	
1,2,3,4,7,8,9-HpCDF	37:57	ND	ND	ND	ND	7.128e3	4.400e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.63e8	1.47e8	6.30e7	5.83e7	3.331e5	2.634e5	1.10	
1,2,3,4,6,7,8-HpCDD	37:31	1.45e5	1.24e5	5.06e4	4.06e4	5.684e3	3.933e3	1.17	
Other HpCDD 1	36:53	1.75e5	1.89e5					0.93	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:17	1.41e5	1.32e5	4.82e4	3.63e4	8.103e3	7.210e3	1.07	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:05	2.55e8	2.82e8	7.65e7	8.59e7	4.051e3	6.577e3	0.90	
OCDD	40:06	5.65e5	6.36e5	1.60e5	1.81e5	1.007e4	1.160e4	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK116L	Injected By	BAL
Lab ID	10260486017	Instrument ID	10MSHR06 (U)
Filename	U140328B_15	GC Column ID	USD397111H
Analyzed	03/29/2014 03:40	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:14	2.29e8	2.95e8	4.02e7	5.17e7	3.971e4	2.616e4	0.78	
2,3,7,8-TCDF	21:16	1.86e5	2.48e5	4.45e4	5.45e4	5.253e3	5.195e3	0.75	
Other TCDF 1	24:03	1.45e5	1.71e5					0.85	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:31	2.42e8	2.98e8	4.13e7	5.19e7	1.728e4	6.655e3	0.81	
2,3,7,8-TCDD-13C	22:22	1.77e8	2.20e8	2.85e7	3.50e7	1.054e4	2.204e4	0.80	
2,3,7,8-TCDD-37Cl4	22:24	4.88e7		7.53e6		3.891e3	-----		
2,3,7,8-TCDD	22:24	ND	ND	ND	ND	4.036e3	4.282e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:11	2.56e8	1.66e8	4.69e7	3.10e7	4.968e3	6.252e4	1.55	
2,3,4,7,8-PeCDF-13C	30:39	2.60e8	1.70e8	6.28e7	3.97e7	1.195e4	1.647e4	1.53	
1,2,3,7,8-PeCDF	29:12	ND	ND	ND	ND	2.803e3	3.918e3		
2,3,4,7,8-PeCDF	30:41	4.12e4	3.33e4	1.14e4	8.05e3	2.300e3	3.853e3	1.24	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	31:04	2.10e8	1.34e8	5.36e7	3.33e7	6.607e4	2.733e4	1.57	
1,2,3,7,8-PeCDD	31:06	ND	ND	ND	ND	2.139e3	2.819e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:58	1.09e8	2.12e8	3.85e7	7.56e7	3.779e3	8.373e3	0.51	
1,2,3,6,7,8-HxCDF-13C	34:05	1.26e8	2.45e8	4.21e7	8.25e7	7.903e4	2.365e5	0.51	
2,3,4,6,7,8-HxCDF-13C	34:38	1.16e8	2.30e8	4.12e7	8.01e7	3.477e3	3.857e3	0.50	
1,2,3,7,8,9-HxCDF-13C	35:23	1.11e8	2.17e8	3.95e7	7.48e7	2.442e4	2.622e4	0.51	
1,2,3,4,7,8-HxCDF	33:58	2.46e4	4.69e4	9.62e3	1.65e4	3.595e3	2.734e3	0.52	I
1,2,3,6,7,8-HxCDF	34:05	3.44e4	2.21e4	8.96e3	1.65e4	3.595e3	2.833e3	1.55	I
2,3,4,6,7,8-HxCDF	34:40	3.68e4	4.82e4	1.47e4	1.40e4	3.539e3	2.790e3	0.76	I
1,2,3,7,8,9-HxCDF	35:24	ND	ND	ND	ND	2.769e3	2.783e3		

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Client Name	PASI Wisconsin		
Client ID	MAK116L	Injected By	BAL
Lab ID	10260486017	Instrument ID	10MSHR06 (U)
Filename	U140328B_15	GC Column ID	USD397111H
Analyzed	03/29/2014 03:40	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:47	1.63e8	1.31e8	6.37e7	5.23e7	7.328e4	2.201e4	1.25	
1,2,3,6,7,8-HxCDD-13C	34:53	1.72e8	1.36e8	5.84e7	4.61e7	7.328e4	6.030e4	1.27	
1,2,3,7,8,9-HxCDD-13C	35:07	2.48e8	1.99e8	8.60e7	6.83e7	4.784e3	6.451e3	1.24	
1,2,3,4,7,8-HxCDD	34:48	ND	ND	ND	ND	3.315e3	4.348e3		
1,2,3,6,7,8-HxCDD	34:54	3.11e4	4.36e4	8.24e3	1.07e4	3.180e3	4.744e3	0.71	I
1,2,3,7,8,9-HxCDD	35:07	2.02e4	2.72e4	9.79e3	1.47e4	3.315e3	3.421e3	0.74	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	1.03e8	2.28e8	4.47e7	9.73e7	1.721e4	2.255e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:56	8.63e7	1.90e8	3.20e7	7.04e7	1.876e4	3.303e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:39	1.40e5	1.33e5	4.28e4	3.47e4	8.136e3	3.582e3	1.05	
1,2,3,4,7,8,9-HpCDF	37:57	7.21e4	2.58e4	2.27e4	7.98e3	7.302e3	3.249e3	2.80	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:30	1.43e8	1.31e8	5.17e7	4.86e7	1.826e4	4.712e3	1.10	
1,2,3,4,6,7,8-HpCDD	37:32	4.46e5	4.18e5	1.69e5	1.71e5	5.632e3	4.264e3	1.07	
Other HpCDD 1	36:52	8.72e5	7.98e5					1.09	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:16	2.21e5	2.32e5	6.61e4	6.44e4	6.785e3	6.891e3	0.95	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:05	2.23e8	2.49e8	7.07e7	7.77e7	2.156e4	1.785e4	0.89	
OCDD	40:06	7.56e6	8.63e6	2.36e6	2.62e6	4.205e3	6.682e3	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK117L	Injected By	BAL
Lab ID	10260486018	Instrument ID	10MSHR06 (U)
Filename	U140328B_16	GC Column ID	USD397111H
Analyzed	03/29/2014 04:25	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:14	2.48e8	3.24e8	4.36e7	5.56e7	3.952e4	2.020e4	0.77	
2,3,7,8-TCDF		21:15	1.87e5	2.53e5	2.60e4	5.15e4	6.319e3	4.112e3	0.74	
Other TCDF	1	17:39	2.06e5	2.41e5					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		21:31	2.12e8	2.68e8	3.76e7	4.63e7	1.937e4	1.190e4	0.79	
2,3,7,8-TCDD-13C		22:22	1.91e8	2.42e8	3.09e7	4.03e7	3.256e4	5.335e4	0.79	
2,3,7,8-TCDD-37Cl4		22:24	4.84e7		8.05e6		4.476e3	-----		
2,3,7,8-TCDD		22:24	ND	ND	ND	ND	3.874e3	3.303e3		
Other TCDD	1	18:39	1.73e5	2.55e5					0.68	
	2	20:19	6.91e4	8.07e4					0.86	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:11	2.72e8	1.78e8	5.28e7	3.49e7	7.115e4	9.303e3	1.53	
2,3,4,7,8-PeCDF-13C	30:39	2.78e8	1.80e8	6.61e7	4.42e7	1.595e4	8.222e3	1.55	
1,2,3,7,8-PeCDF	29:11	2.81e4	1.65e4	8.53e3	4.70e3	2.007e3	2.614e3	1.70	
2,3,4,7,8-PeCDF	30:40	ND	ND	ND	ND	2.068e3	2.342e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:04	2.27e8	1.42e8	5.66e7	3.53e7	5.533e4	1.161e4	1.60	
1,2,3,7,8-PeCDD	31:04	1.79e4	1.92e4	5.32e4	6.53e3	2.714e3	2.362e3	0.93	I

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:58	1.16e8	2.29e8	3.99e7	7.91e7	5.088e3	9.041e3	0.51	
1,2,3,6,7,8-HxCDF-13C	34:05	1.36e8	2.64e8	4.41e7	8.78e7	1.432e5	2.441e5	0.52	
2,3,4,6,7,8-HxCDF-13C	34:38	1.26e8	2.48e8	4.55e7	9.10e7	3.748e3	4.816e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:23	1.20e8	2.34e8	4.47e7	8.50e7	1.911e4	5.738e4	0.51	
1,2,3,4,7,8-HxCDF	33:59	1.89e4	2.83e4	8.00e3	1.31e4	3.253e3	2.736e3	0.67	I
1,2,3,6,7,8-HxCDF	34:05	4.07e4	3.99e4	1.35e4	1.32e4	3.423e3	2.603e3	1.02	I

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Client Name	PASI Wisconsin		
Client ID	MAK117L	Injected By	BAL
Lab ID	10260486018	Instrument ID	10MSHR06 (U)
Filename	U140328B_16	GC Column ID	USD397111H
Analyzed	03/29/2014 04:25	ICAL ID	U140322

2,3,4,6,7,8-HxCDF	34:38	2.95e4	1.63e4	8.36e3	8.45e3	3.379e3	2.666e3	1.81	I
1,2,3,7,8,9-HxCDF	35:24	ND	ND	ND	ND	2.711e3	2.877e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:47	1.86e8	1.47e8	6.45e7	5.19e7	4.528e4	1.730e4	1.27	
1,2,3,6,7,8-HxCDD-13C	34:53	1.83e8	1.43e8	6.47e7	4.93e7	4.528e4	5.064e4	1.28	
1,2,3,7,8,9-HxCDD-13C	35:07	2.17e8	1.78e8	7.82e7	6.23e7	7.509e3	4.937e4	1.22	
1,2,3,4,7,8-HxCDD	34:48	2.24e4	1.89e4	2.07e4	1.33e4	3.346e3	5.060e3	1.19	
1,2,3,6,7,8-HxCDD	34:53	4.99e4	3.24e4	2.07e4	1.33e4	3.828e3	4.871e3	1.54	I
1,2,3,7,8,9-HxCDD	35:08	2.27e4	2.85e4	1.21e4	1.12e4	3.486e3	4.588e3	0.80	I
Other HxCDD 1	33:20	3.95e4	3.41e4					1.16	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	1.11e8	2.42e8	4.64e7	9.96e7	2.150e4	4.312e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	37:56	9.45e7	2.08e8	3.47e7	7.89e7	2.150e4	7.540e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:38	2.03e5	1.51e5	4.31e4	4.47e4	9.642e3	5.208e3	1.34	I
1,2,3,4,7,8,9-HpCDF	37:57	ND	ND	ND	ND	7.603e3	4.648e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.55e8	1.44e8	5.58e7	5.27e7	3.014e5	6.338e3	1.08	
1,2,3,4,6,7,8-HpCDD	37:31	1.48e5	1.68e5	5.44e4	7.54e4	3.824e3	3.239e3	0.88	
Other HpCDD 1	36:52	2.13e5	2.39e5					0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:17	1.48e5	1.29e5	5.97e4	3.02e4	6.570e3	3.810e3	1.14	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:05	2.46e8	2.70e8	7.93e7	8.65e7	1.918e4	1.613e4	0.91	
OCDD	40:06	8.08e5	9.53e5	2.44e5	2.57e5	4.234e3	4.376e3	0.85	

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Client Name	PASI Wisconsin		
Client ID	MAK117L	Injected By	BAL
Lab ID	10260486018	Instrument ID	10MSHR06 (U)
Filename	U140328B_16	GC Column ID	USD397111H
Analyzed	03/29/2014 04:25	ICAL ID	U140322

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Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK118L	Injected By	BAL
Lab ID	10260486019	Instrument ID	10MSHR06 (U)
Filename	U140328B_17	GC Column ID	USD397111H
Analyzed	03/29/2014 05:10	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:14	2.37e8	3.04e8	4.10e7	5.25e7	3.634e4	1.524e4	0.78	
2,3,7,8-TCDF		21:13	2.12e5	2.51e5	4.25e4	5.66e4	5.665e3	6.538e3	0.84	
Other TCDF	1	16:54	7.82e5	9.28e5					0.84	
Ethers	1	24:28	1.58e5	1.99e5					0.79	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:30	2.13e8	2.69e8	3.58e7	4.59e7	1.693e4	1.117e4	0.79	
2,3,7,8-TCDD-13C		22:22	1.88e8	2.33e8	3.01e7	3.81e7	2.962e4	4.866e4	0.81	
2,3,7,8-TCDD-37Cl4		22:23	4.54e7		7.41e6		5.255e3	-----		
2,3,7,8-TCDD		22:24	ND	ND	ND	ND	6.334e3	2.775e3		
Other TCDD	1	18:19	1.97e5	2.77e5					0.71	
	2	18:40	1.09e5	1.59e5					0.68	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:11	2.63e8	1.69e8	4.94e7	3.25e7	7.637e4	7.122e4	1.56	
2,3,4,7,8-PeCDF-13C	30:38	2.65e8	1.71e8	6.31e7	4.09e7	1.544e4	2.853e4	1.54	
1,2,3,7,8-PeCDF	29:12	2.92e4	3.34e4	9.56e3	1.43e4	3.264e3	3.325e3	0.87	I
2,3,4,7,8-PeCDF	30:42	4.73e4	3.09e4	9.78e3	8.98e3	2.832e3	3.070e3	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:04	2.13e8	1.36e8	5.21e7	3.31e7	6.634e4	4.276e4	1.57	
1,2,3,7,8-PeCDD	31:05	1.33e4	1.39e4	4.92e4	4.89e3	2.537e3	2.894e3	0.96	I

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:58	1.11e8	2.18e8	3.90e7	7.61e7	3.231e3	4.514e4	0.51	
1,2,3,6,7,8-HxCDF-13C	34:05	1.28e8	2.49e8	4.44e7	8.75e7	1.493e5	2.364e5	0.51	
2,3,4,6,7,8-HxCDF-13C	34:38	1.19e8	2.34e8	4.41e7	8.67e7	1.973e3	6.973e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:23	1.14e8	2.21e8	3.86e7	7.28e7	1.216e4	1.712e4	0.52	

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	MAK118L	Injected By	BAL
Lab ID	10260486019	Instrument ID	10MSHR06 (U)
Filename	U140328B_17	GC Column ID	USD397111H
Analyzed	03/29/2014 05:10	ICAL ID	U140322

1,2,3,4,7,8-HxCDF	33:54	8.92e4	4.41e4	3.09e4	1.25e4	3.289e3	2.328e3	2.02	I
1,2,3,6,7,8-HxCDF	34:06	2.58e4	2.83e4	5.20e3	1.38e4	3.699e3	2.215e3	0.91	I
2,3,4,6,7,8-HxCDF	34:39	3.04e4	1.34e4	1.83e4	5.67e3	3.475e3	2.182e3	2.27	I
1,2,3,7,8,9-HxCDF	35:24	ND	ND	ND	ND	3.475e3	2.611e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:47	1.72e8	1.34e8	6.45e7	4.98e7	3.032e4	2.474e4	1.28	
1,2,3,6,7,8-HxCDD-13C	34:52	1.81e8	1.43e8	6.32e7	5.07e7	3.032e4	2.474e4	1.26	
1,2,3,7,8,9-HxCDD-13C	35:07	2.14e8	1.70e8	7.46e7	5.88e7	3.005e3	4.641e3	1.26	
1,2,3,4,7,8-HxCDD	34:46	2.40e4	2.30e4	7.57e3	5.31e3	2.640e3	4.603e3	1.04	I
1,2,3,6,7,8-HxCDD	34:53	3.53e4	2.43e4	1.29e4	6.60e3	3.086e3	4.131e3	1.45	I
1,2,3,7,8,9-HxCDD	35:08	1.87e4	3.49e4	8.57e3	1.64e4	3.781e3	3.574e3	0.54	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	1.04e8	2.34e8	4.24e7	9.36e7	1.712e4	3.239e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:56	9.01e7	2.02e8	3.30e7	7.44e7	1.439e4	3.239e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:39	9.86e4	7.96e4	1.80e4	1.77e4	6.444e3	2.369e3	1.24	I
1,2,3,4,7,8,9-HpCDF	37:57	ND	ND	ND	ND	6.444e3	2.369e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:30	1.49e8	1.39e8	5.50e7	5.09e7	3.631e4	2.785e5	1.07	
1,2,3,4,6,7,8-HpCDD	37:31	8.30e4	1.27e5	4.15e4	5.21e4	3.757e3	3.808e3	0.65	I
Other HpCDD 1	36:52	1.42e5	1.46e5					0.97	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:16	1.30e5	1.11e5	3.41e4	3.03e4	6.972e3	5.944e3	1.17	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:05	2.38e8	2.62e8	7.53e7	8.11e7	2.014e4	2.194e4	0.91	
OCDD	40:06	4.93e5	4.82e5	1.62e5	1.39e5	3.133e3	5.769e3	1.02	

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1700 Elm Street - Suite 200
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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK118L	Injected By	BAL
Lab ID	10260486019	Instrument ID	10MSHR06 (U)
Filename	U140328B_17	GC Column ID	USD397111H
Analyzed	03/29/2014 05:10	ICAL ID	U140322

REPORT OF LABORATORY ANALYSIS

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Appendix E

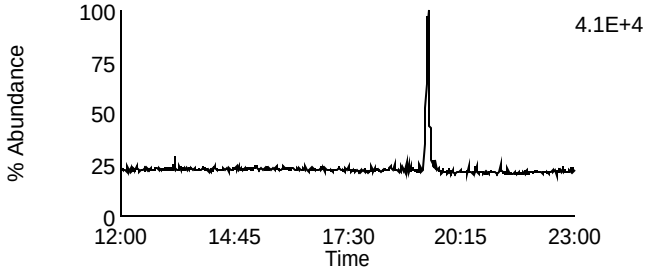
Calibration Raw Data

Homologue Group: Tetras

Data File Name: P130624B_03
Date Acquired: 6/24/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_03 G1 C1 - 303.9016
CAL CS1-7604-273 - SMT



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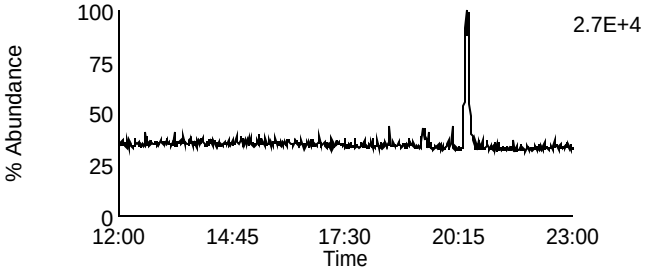
CAL CS1-7604-273 - SMT



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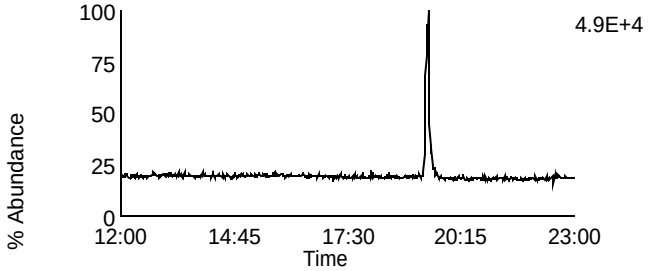
CAL CS1-7604-273 - SMT



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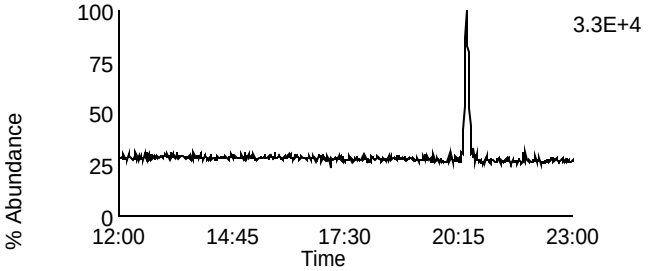
CAL CS1-7604-273 - SMT



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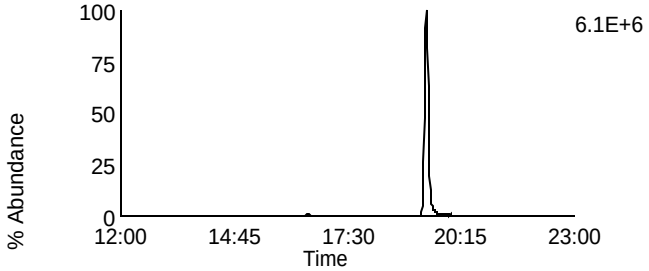
CAL CS1-7604-273 - SMT



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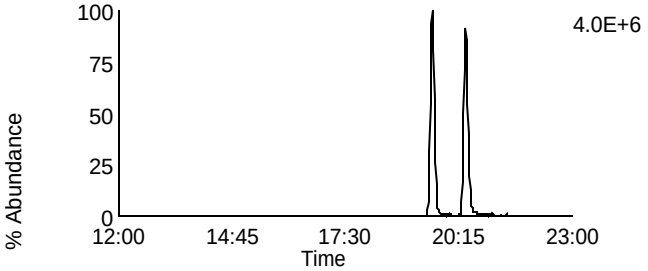
CAL CS1-7604-273 - SMT



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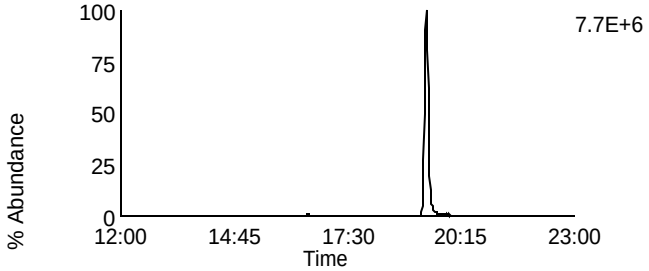
CAL CS1-7604-273 - SMT



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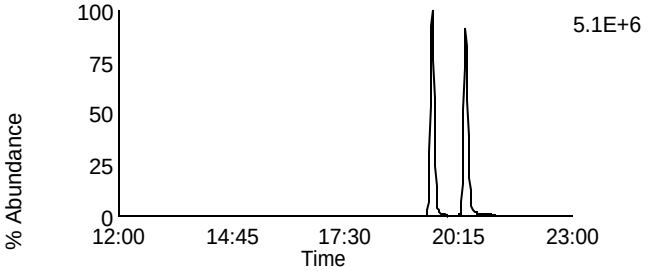
CAL CS1-7604-273 - SMT



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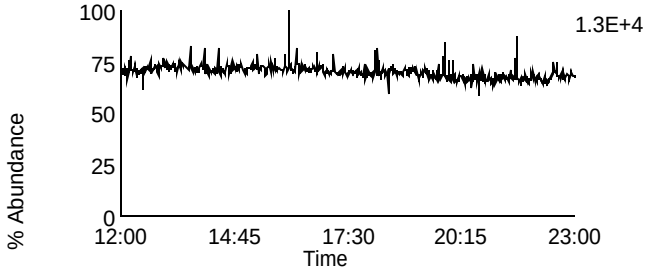
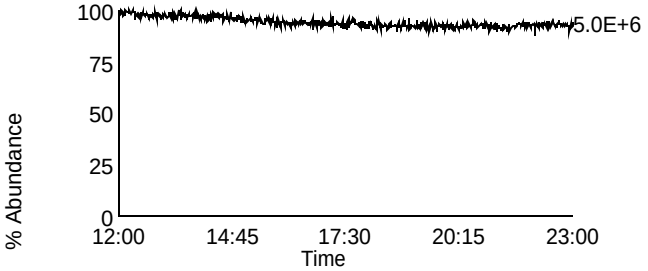
CAL CS1-7604-273 - SMT



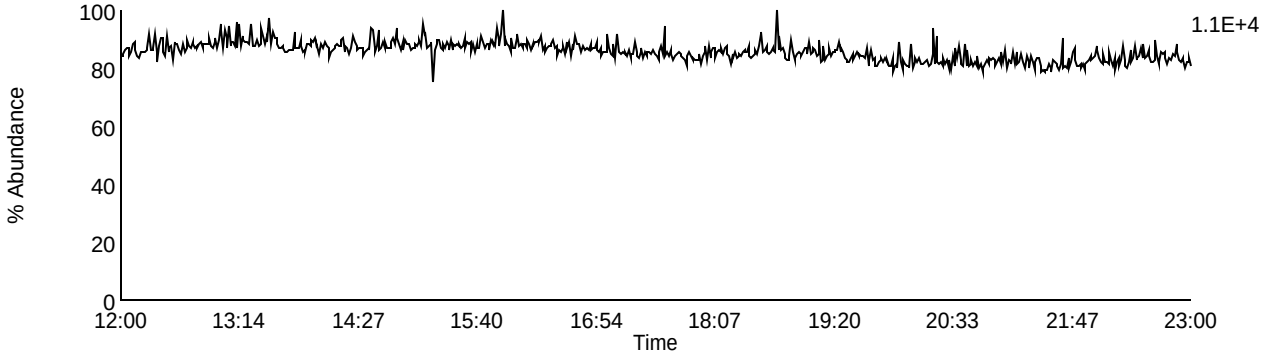
Data File: P130624B_03 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT



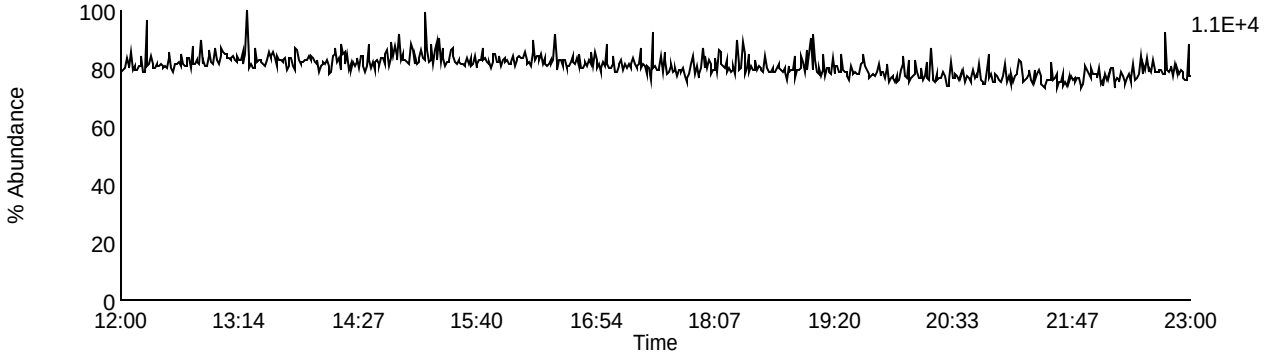
Homologue Group: Penta & Cleanup

Data File Name: P130624B_03	Lab Sample ID: CS1-7604-273
Date Acquired: 6/24/2013	Client Sample ID:
Sample Description: CAL CS1-7604-273 - SMT	Instrument: 10MSHR09 (P)

Data File: P130624B_03 G1 C12 - 339.8597
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G1 C13 - 341.8567
CAL CS1-7604-273 - SMT



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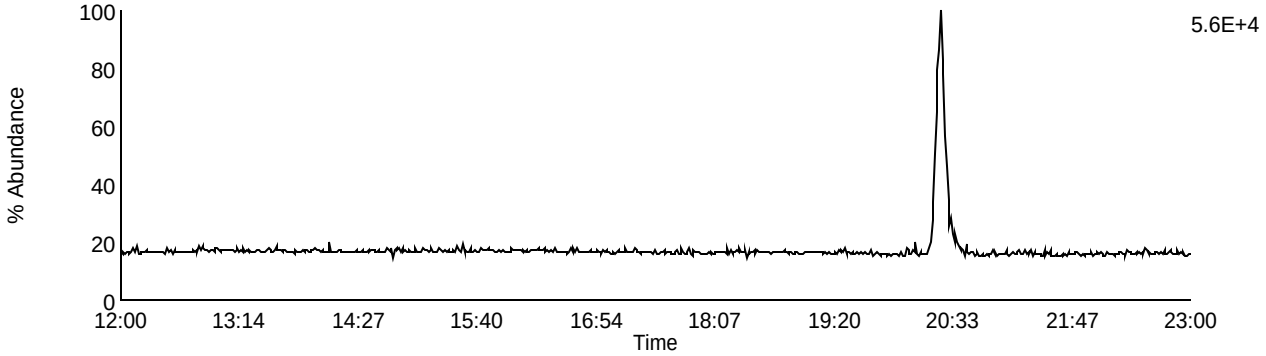
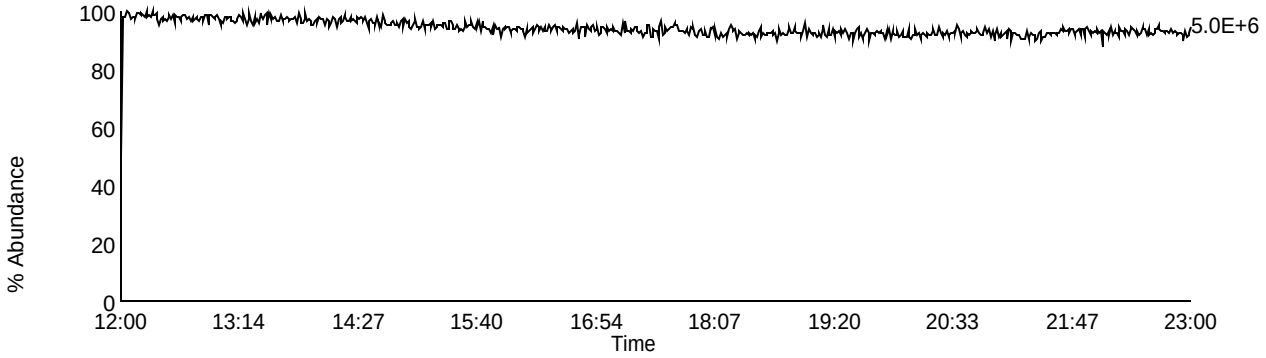
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT

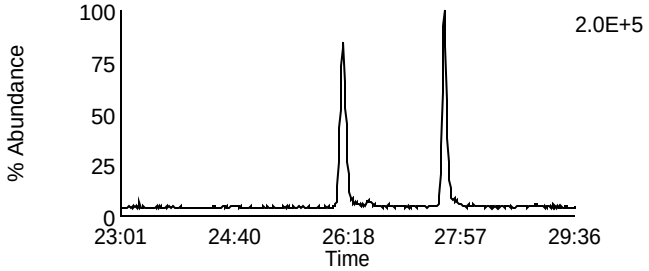


Homologue Group: Pentas

Data File Name: P130624B_03
Date Acquired: 6/24/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_03 G2 C1 - 339.8597
CAL CS1-7604-273 - SMT



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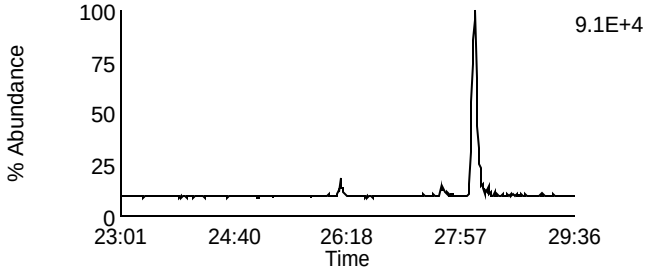
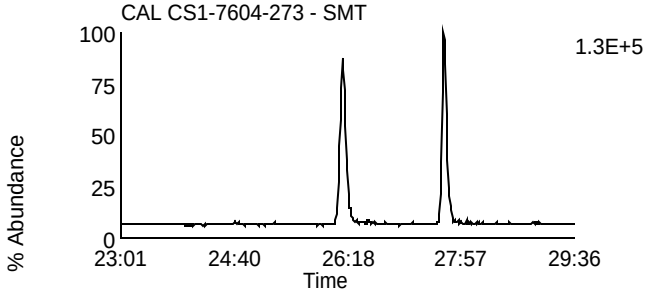
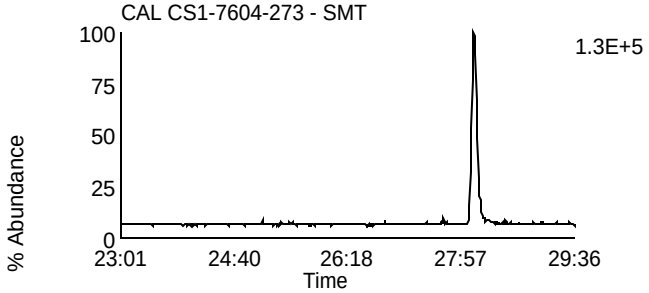
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G2 C2 - 341.8567
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G2 C8 - 355.8546
CAL CS1-7604-273 - SMT



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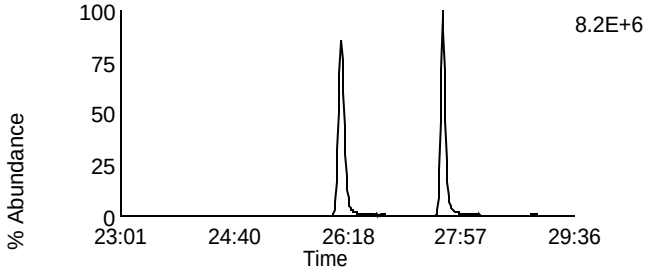
CAL CS1-7604-273 - SMT



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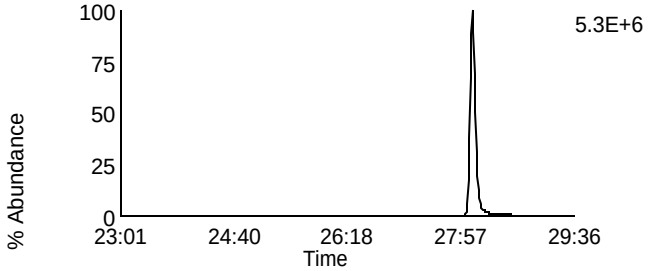
CAL CS1-7604-273 - SMT



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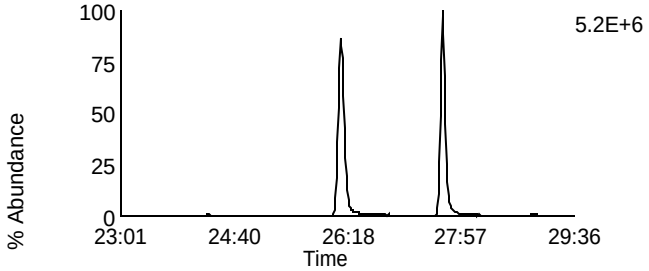
CAL CS1-7604-273 - SMT



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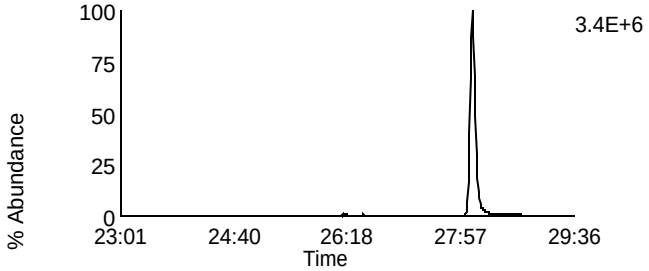

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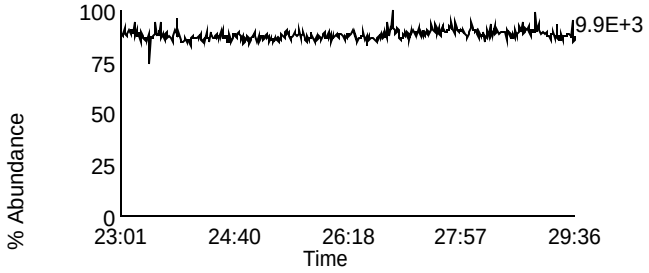
CAL CS1-7604-273 - SMT



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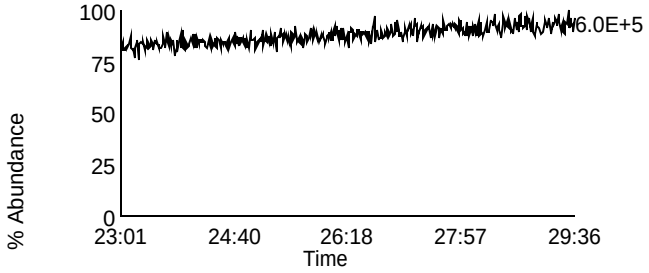
CAL CS1-7604-273 - SMT

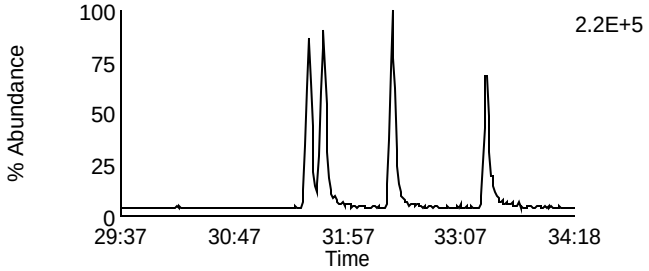


Homologue Group: Hexas

Data File Name: P130624B_03
Date Acquired: 6/24/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_03 G3 C1 - 373.8207
CAL CS1-7604-273 - SMT



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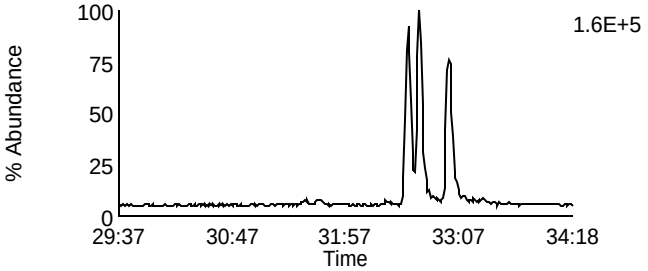
CAL CS1-7604-273 - SMT



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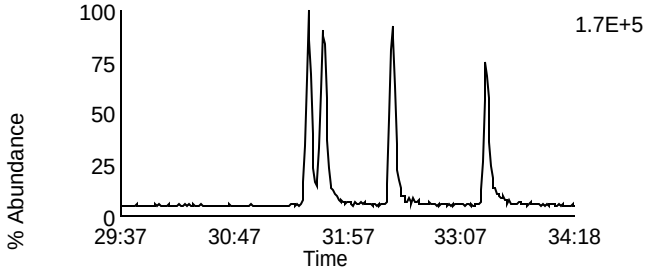
CAL CS1-7604-273 - SMT



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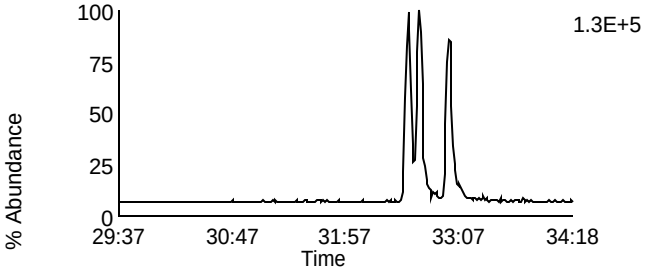
CAL CS1-7604-273 - SMT



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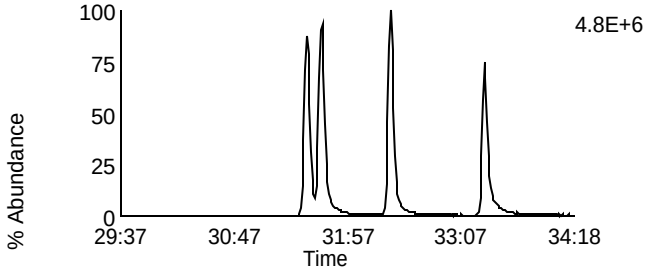
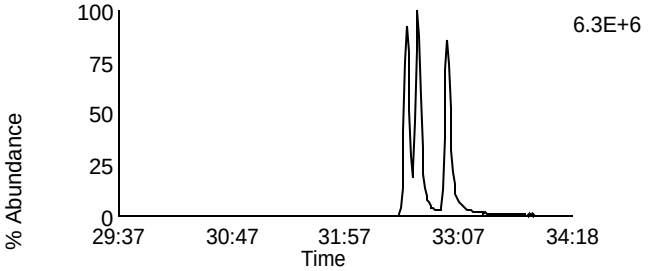
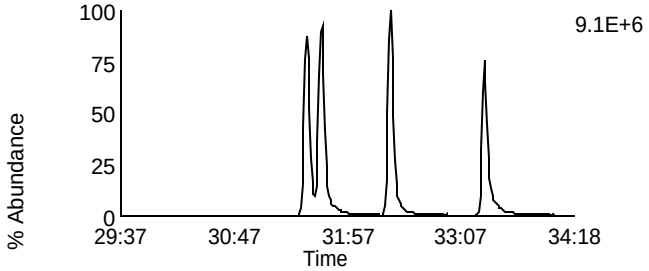
CAL CS1-7604-273 - SMT



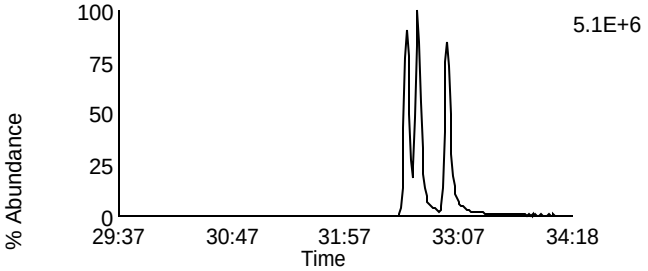
Data File: P130624B_03 G3 C9 - 401.8559
CAL CS1-7604-273 - SMT



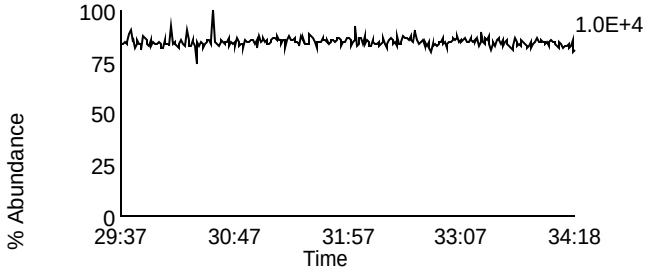
Data File: P130624B_03 G3 C6 - 385.861
CAL CS1-7604-273 - SMT



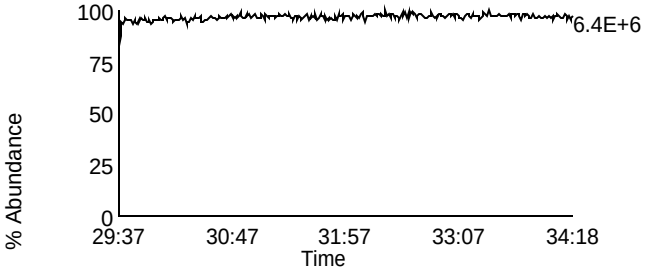
Data File: P130624B_03 G3 C10 - 403.8529
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G3 C11 - 445.7555
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G3 C3 - 380.976
CAL CS1-7604-273 - SMT

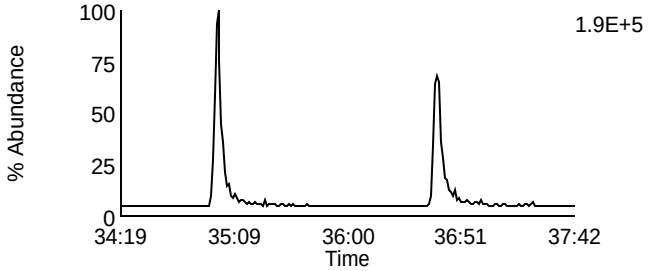


Homologue Group: Heptas

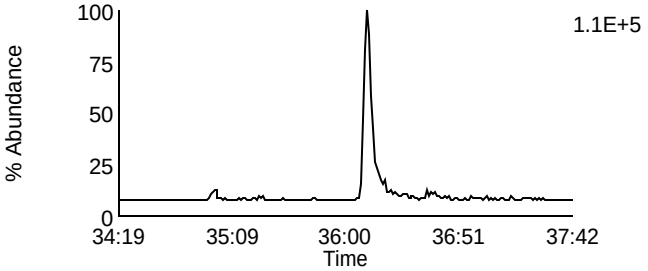
Data File Name: P130624B_03
Date Acquired: 6/24/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR09 (P)

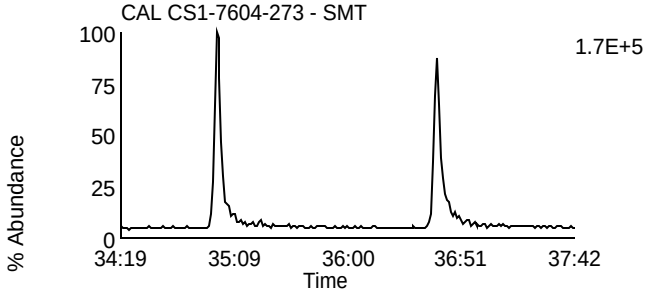
Data File: P130624B_03 G4 C3 - 407.7818
CAL CS1-7604-273 - SMT



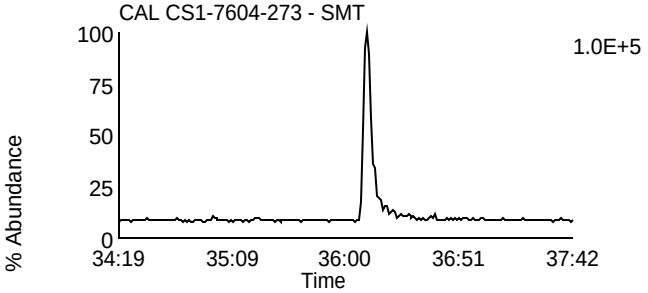
Data File: P130624B_03 G4 C8 - 423.7767
CAL CS1-7604-273 - SMT



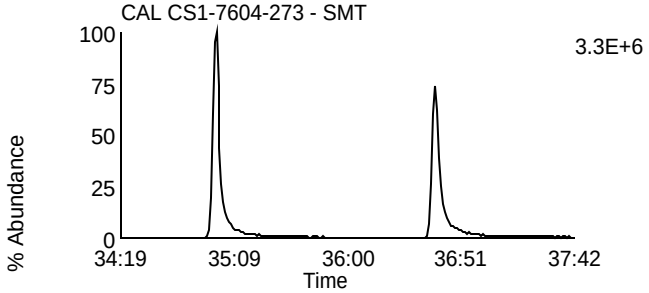
Data File: P130624B_03 G4 C4 - 409.7788
CAL CS1-7604-273 - SMT



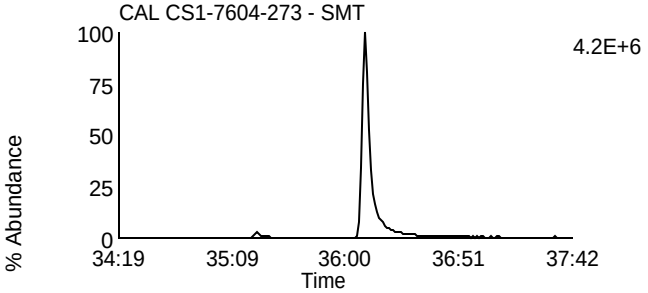
Data File: P130624B_03 G4 C9 - 425.7737
CAL CS1-7604-273 - SMT



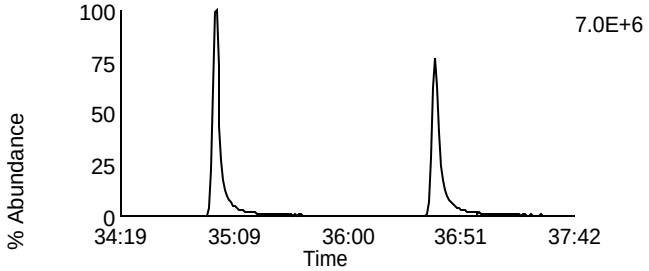
Data File: P130624B_03 G4 C6 - 417.825
CAL CS1-7604-273 - SMT



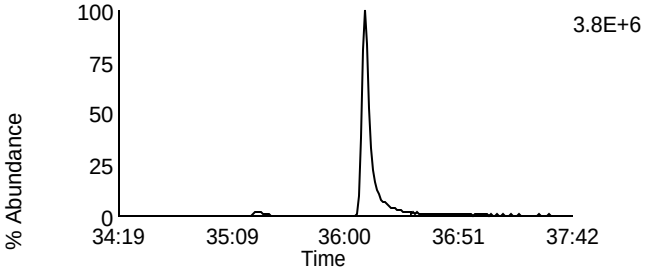
Data File: P130624B_03 G4 C11 - 435.8169
CAL CS1-7604-273 - SMT



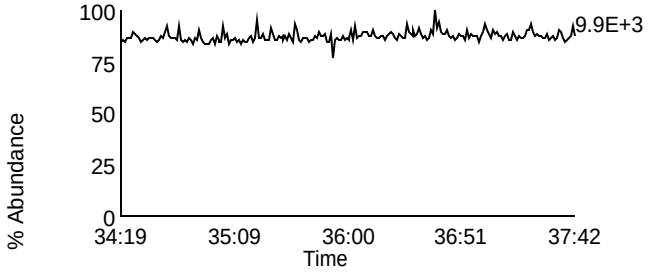
Data File: P130624B_03 G4 C7 - 419.822
CAL CS1-7604-273 - SMT



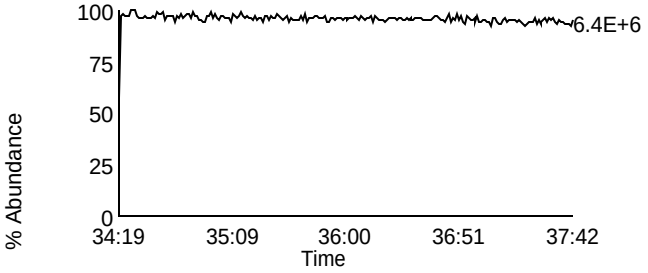
Data File: P130624B_03 G4 C12 - 437.814
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G4 C13 - 479.7165
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G4 C1 - 380.976
CAL CS1-7604-273 - SMT

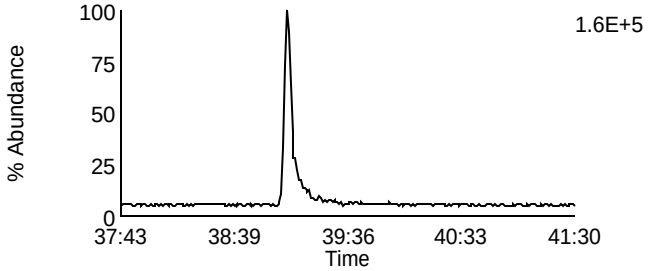


Homologue Group: Octas

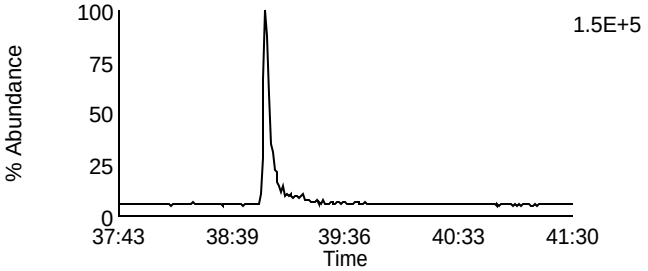
Data File Name: P130624B_03
Date Acquired: 6/24/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR09 (P)

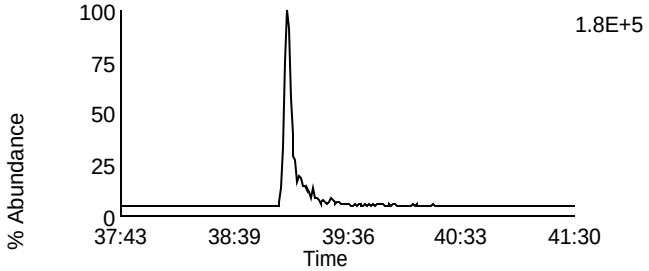
Data File: P130624B_03 G5 C4 - 441.7428
CAL CS1-7604-273 - SMT



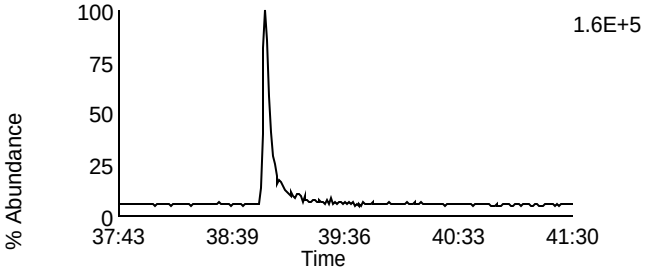
Data File: P130624B_03 G5 C8 - 457.7377
CAL CS1-7604-273 - SMT



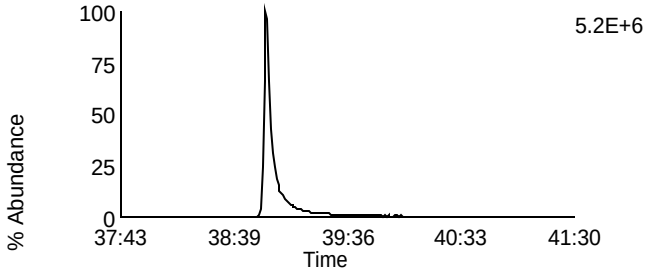
Data File: P130624B_03 G5 C5 - 443.7398
CAL CS1-7604-273 - SMT



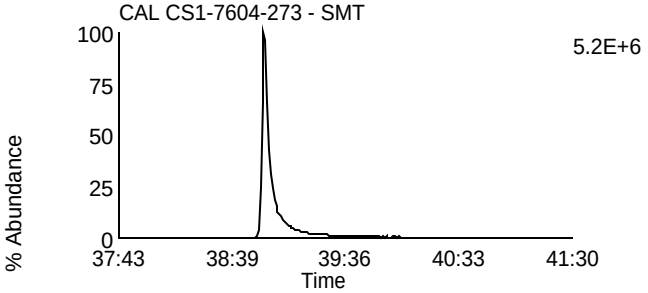
Data File: P130624B_03 G5 C9 - 459.7347
CAL CS1-7604-273 - SMT



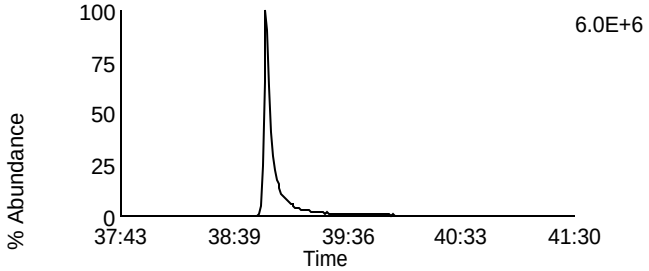
Data File: P130624B_03 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



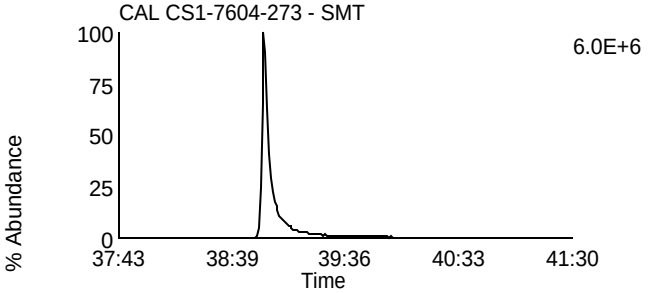
Data File: P130624B_03 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



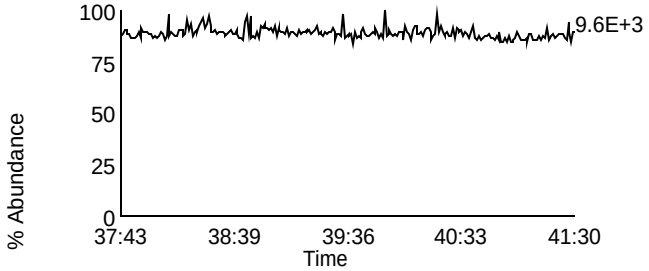
Data File: P130624B_03 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



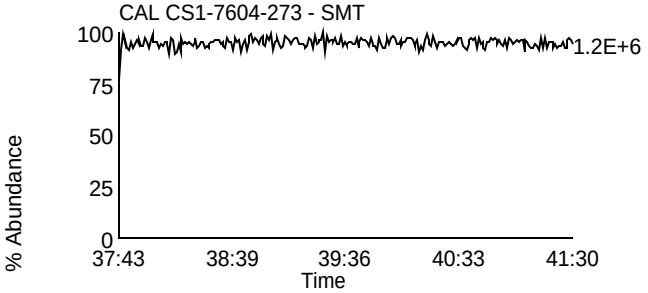
Data File: P130624B_03 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G5 C13 - 513.6775
CAL CS1-7604-273 - SMT



Data File: P130624B_03 G5 C2 - 430.9728
CAL CS1-7604-273 - SMT

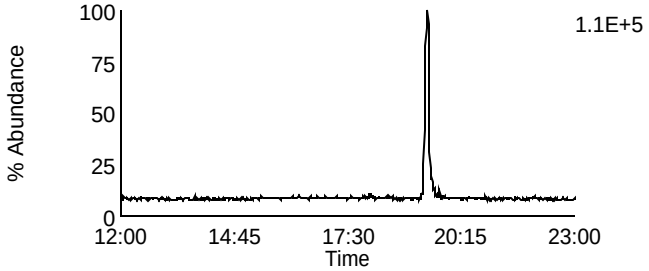


Homologue Group: Tetras

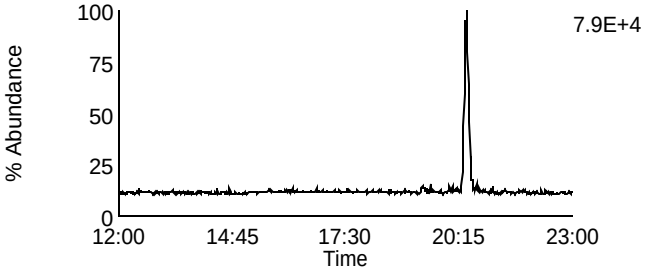
Data File Name: P130624B_02
Date Acquired: 6/24/2013
Sample Description: CAL CS2-7604-215 - SMT

Lab Sample ID: CS2-7604-215
Client Sample ID:
Instrument: 10MSHR09 (P)

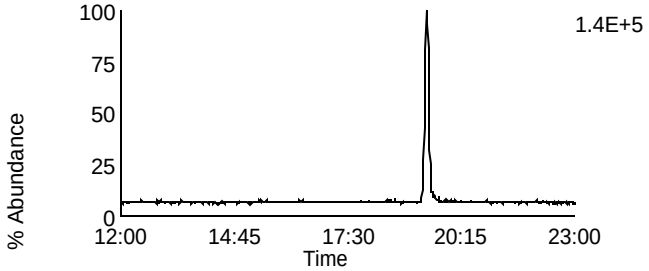
Data File: P130624B_02 G1 C1 - 303.9016
CAL CS2-7604-215 - SMT



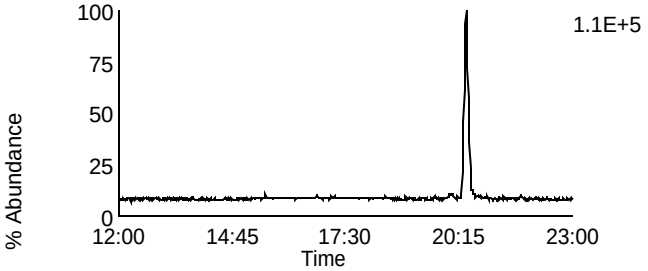
Data File: P130624B_02 G1 C7 - 319.8965
CAL CS2-7604-215 - SMT



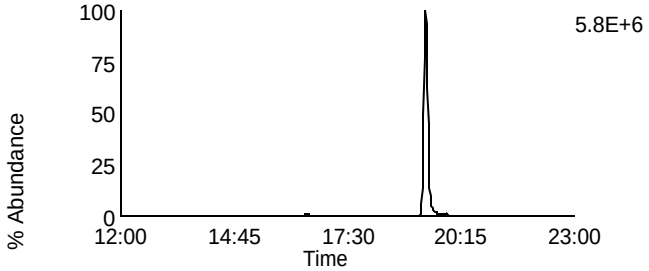
Data File: P130624B_02 G1 C2 - 305.8987
CAL CS2-7604-215 - SMT



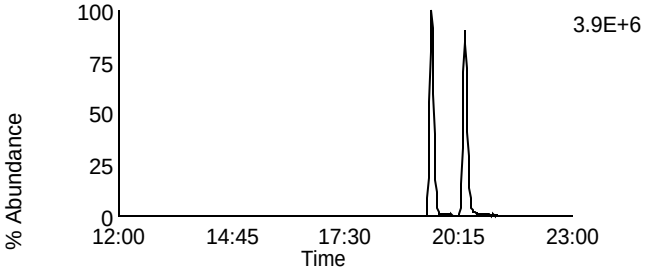
Data File: P130624B_02 G1 C8 - 321.8936
CAL CS2-7604-215 - SMT



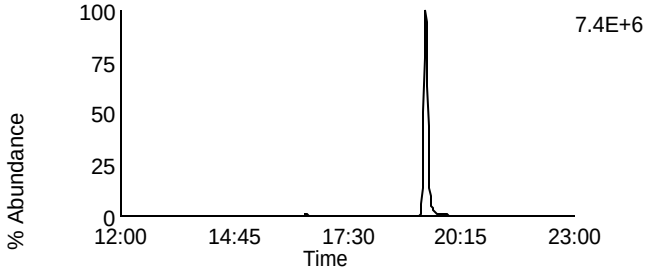
Data File: P130624B_02 G1 C3 - 315.9418
CAL CS2-7604-215 - SMT



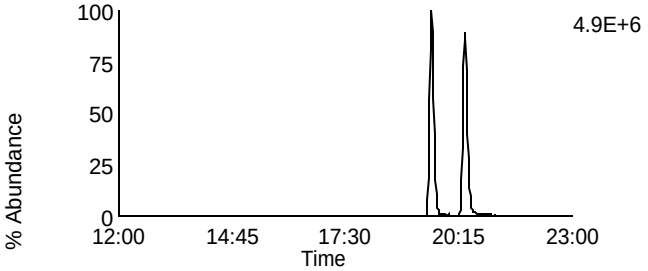
Data File: P130624B_02 G1 C10 - 331.9367
CAL CS2-7604-215 - SMT



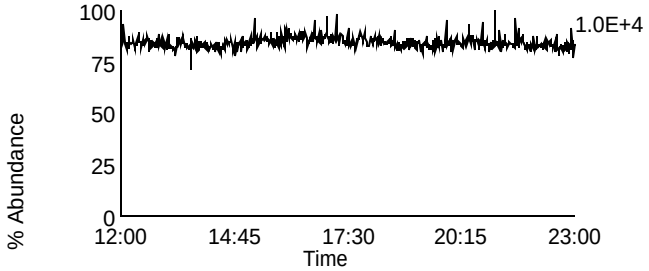
Data File: P130624B_02 G1 C4 - 317.9389
CAL CS2-7604-215 - SMT



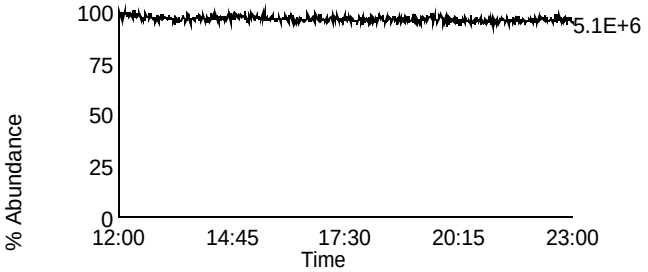
Data File: P130624B_02 G1 C11 - 333.9338
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G1 C14 - 375.8364
CAL CS2-7604-215 - SMT



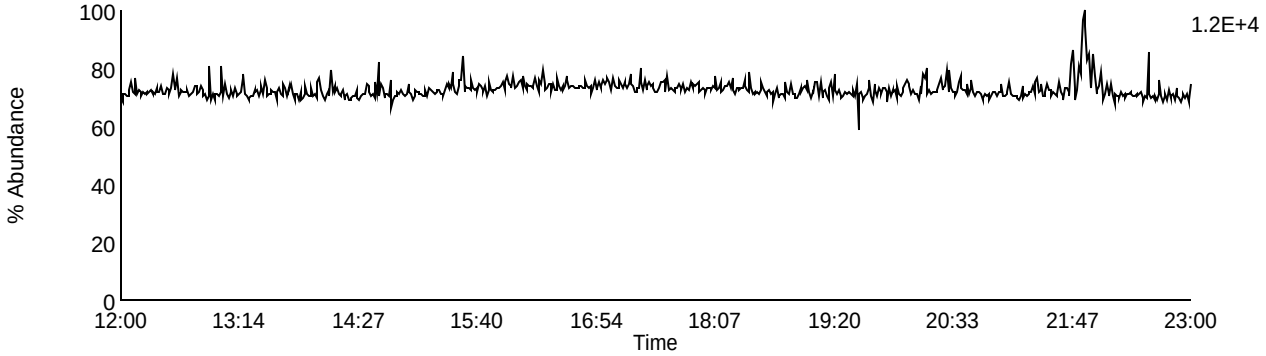
Data File: P130624B_02 G1 C5 - 318.9792
CAL CS2-7604-215 - SMT



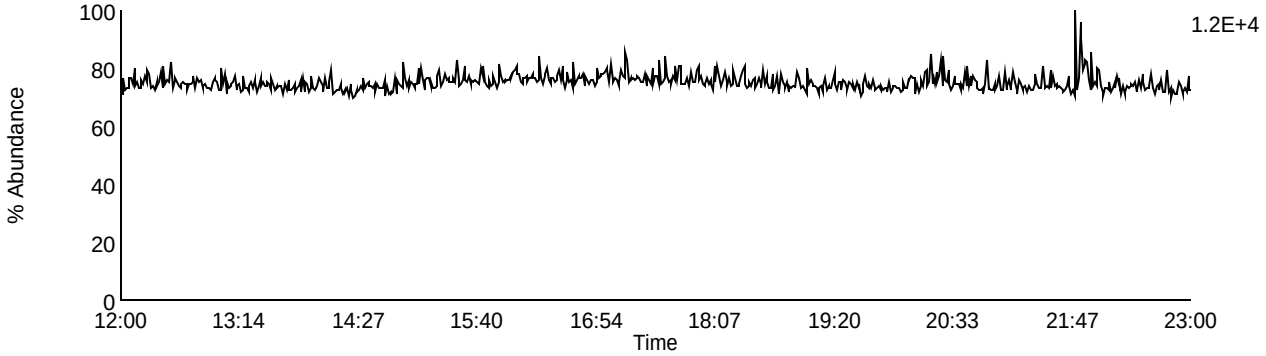
Homologue Group: Penta & Cleanup

Data File Name: P130624B_02	Lab Sample ID: CS2-7604-215
Date Acquired: 6/24/2013	Client Sample ID:
Sample Description: CAL CS2-7604-215 - SMT	Instrument: 10MSHR09 (P)

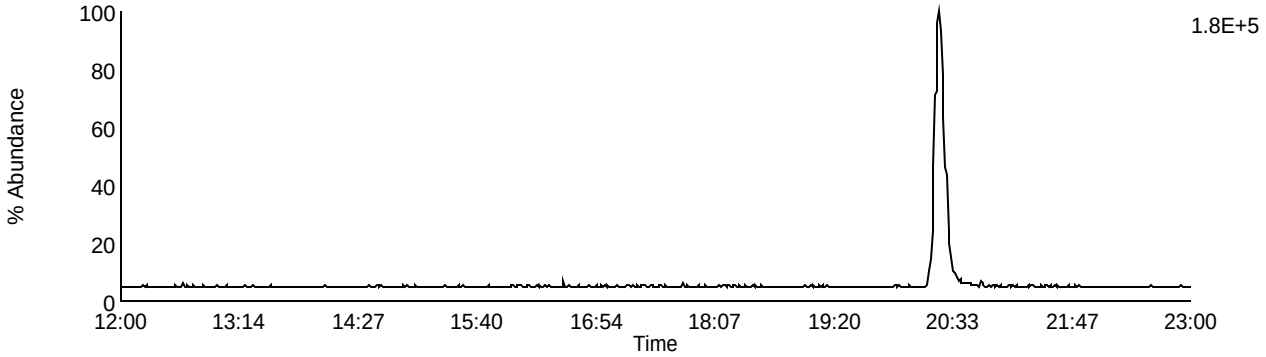
Data File: P130624B_02 G1 C12 - 339.8597
CAL CS2-7604-215 - SMT



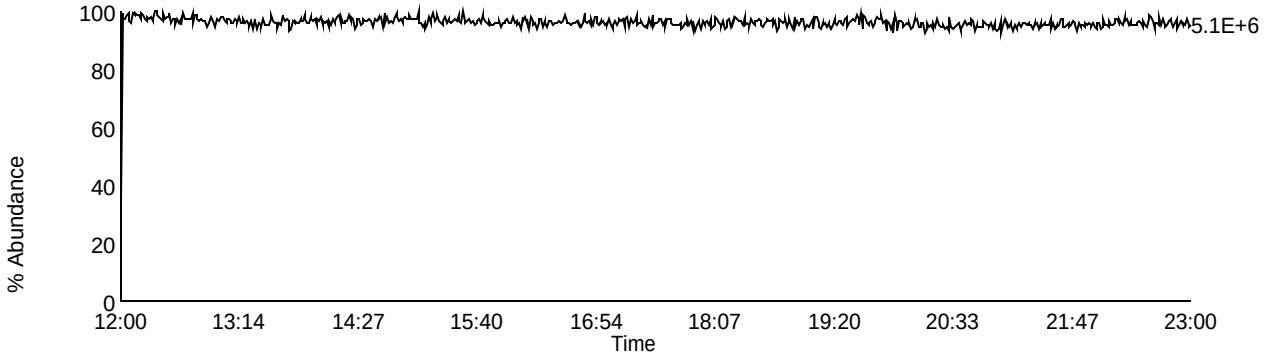
Data File: P130624B_02 G1 C13 - 341.8567
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G1 C9 - 327.8847
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G1 C5 - 318.9792
CAL CS2-7604-215 - SMT

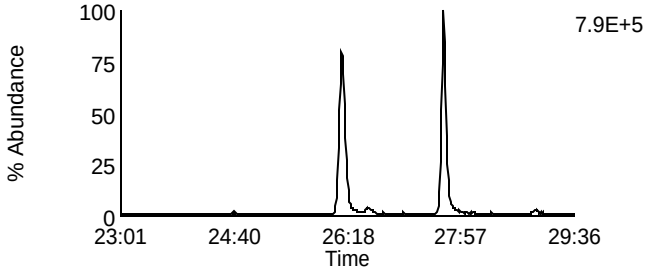


Homologue Group: Pentas

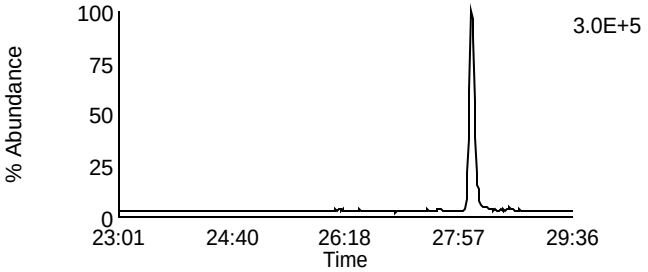
Data File Name: P130624B_02
Date Acquired: 6/24/2013
Sample Description: CAL CS2-7604-215 - SMT

Lab Sample ID: CS2-7604-215
Client Sample ID:
Instrument: 10MSHR09 (P)

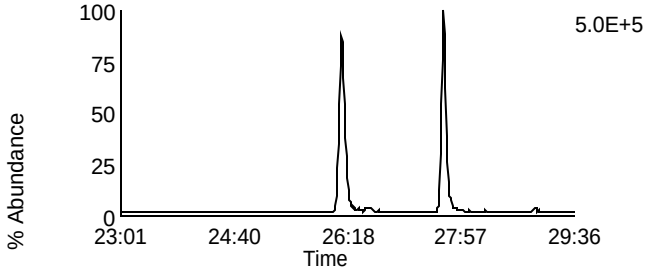
Data File: P130624B_02 G2 C1 - 339.8597
CAL CS2-7604-215 - SMT



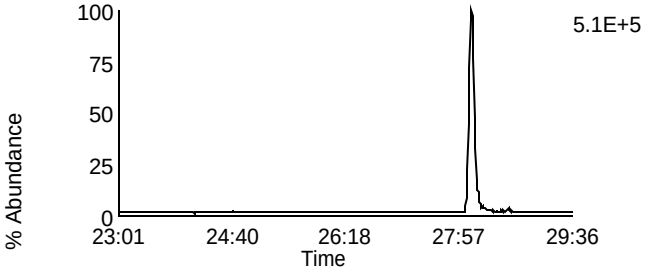
Data File: P130624B_02 G2 C4 - 353.8576
CAL CS2-7604-215 - SMT



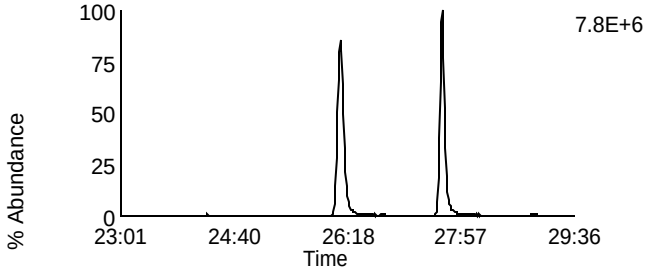
Data File: P130624B_02 G2 C2 - 341.8567
CAL CS2-7604-215 - SMT



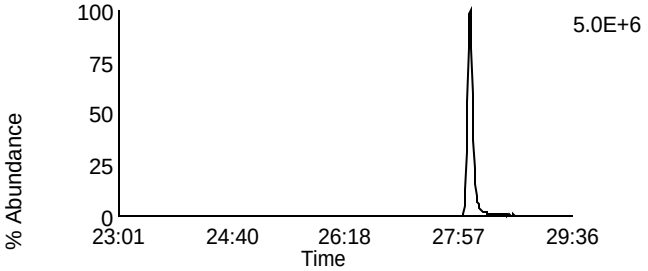
Data File: P130624B_02 G2 C8 - 355.8546
CAL CS2-7604-215 - SMT



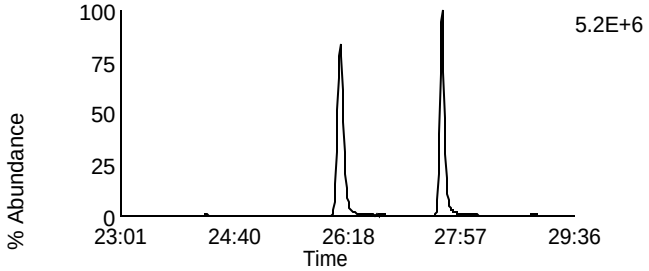
Data File: P130624B_02 G2 C3 - 351.8999
CAL CS2-7604-215 - SMT



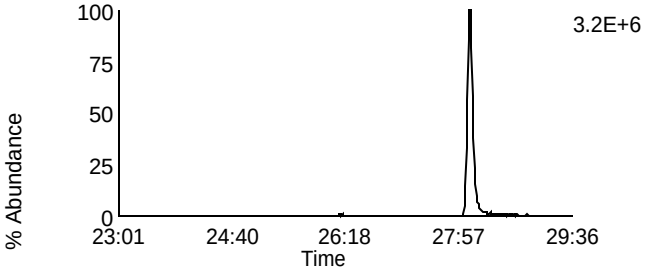
Data File: P130624B_02 G2 C10 - 367.8948
CAL CS2-7604-215 - SMT



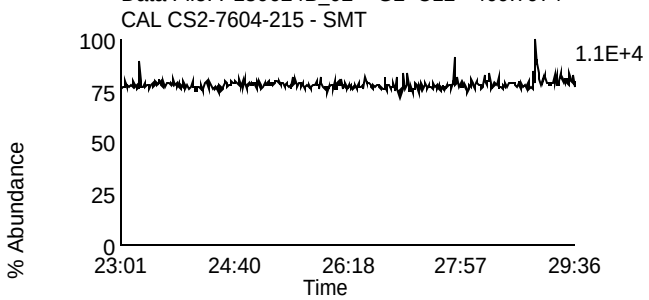
Data File: P130624B_02 G2 C5 - 353.8969
CAL CS2-7604-215 - SMT



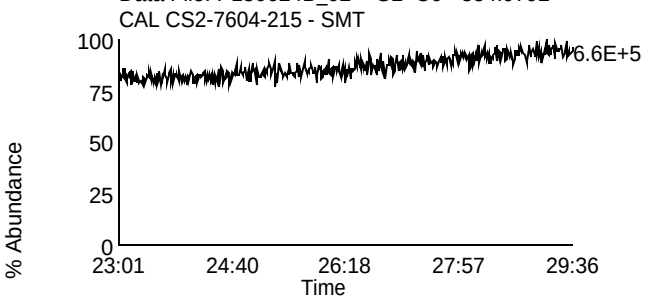
Data File: P130624B_02 G2 C11 - 369.8918
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G2 C12 - 409.7974
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G2 C6 - 354.9792
CAL CS2-7604-215 - SMT

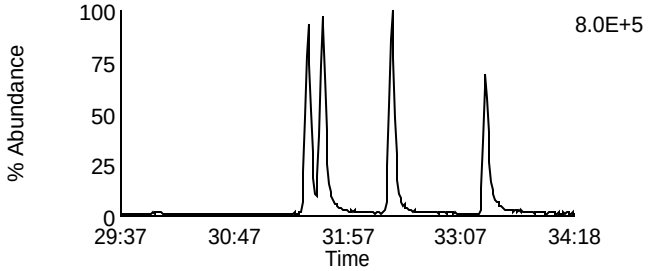


Homologue Group: Hexas

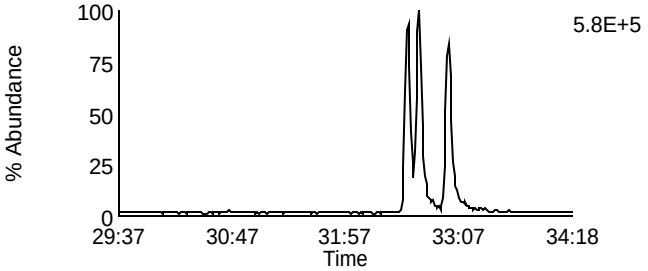
Data File Name: P130624B_02
Date Acquired: 6/24/2013
Sample Description: CAL CS2-7604-215 - SMT

Lab Sample ID: CS2-7604-215
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_02 G3 C1 - 373.8207
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G3 C7 - 389.8156
CAL CS2-7604-215 - SMT



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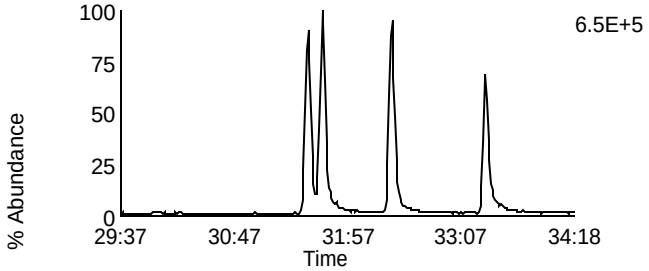
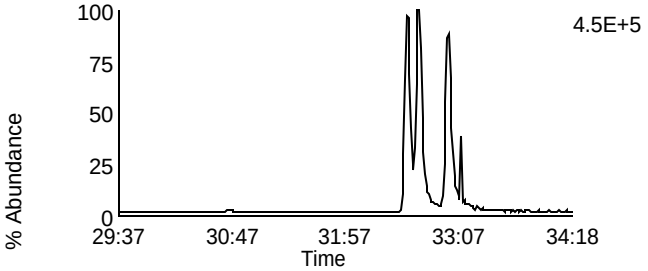
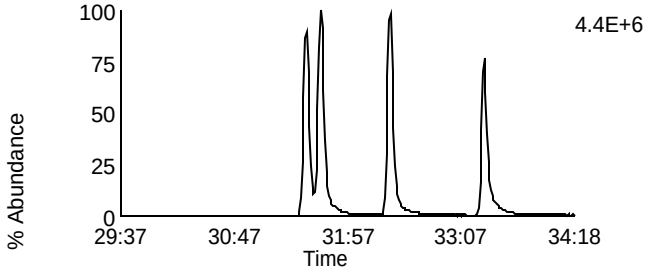
CAL CS2-7604-215 - SMT



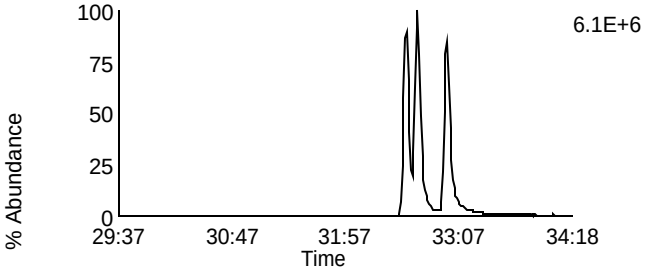
Data File: P130624B_02 G3 C8 - 391.8127
CAL CS2-7604-215 - SMT



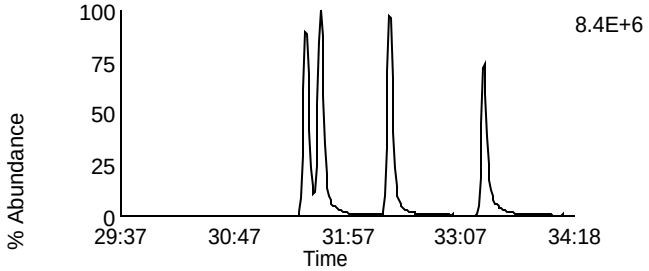
Data File: P130624B_02 G3 C5 - 383.8639
CAL CS2-7604-215 - SMT



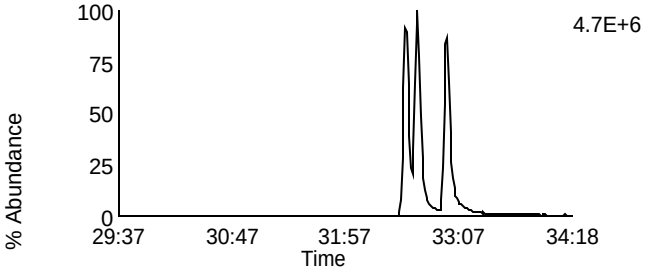
Data File: P130624B_02 G3 C9 - 401.8559
CAL CS2-7604-215 - SMT



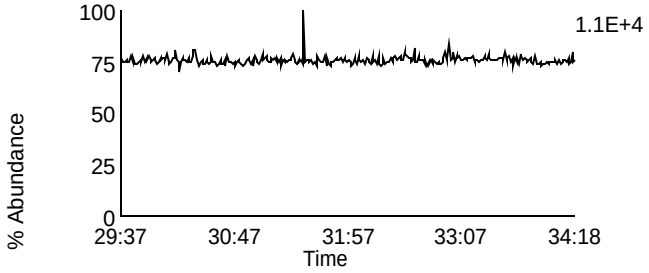
Data File: P130624B_02 G3 C6 - 385.861
CAL CS2-7604-215 - SMT



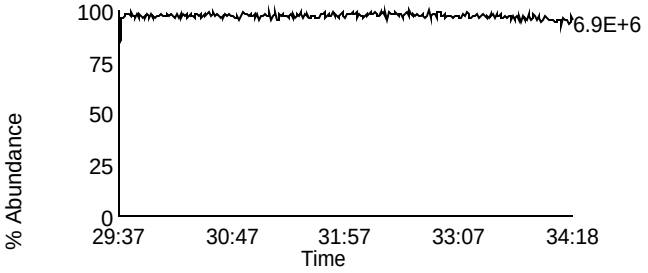
Data File: P130624B_02 G3 C10 - 403.8529
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G3 C11 - 445.7555
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G3 C3 - 380.976
CAL CS2-7604-215 - SMT

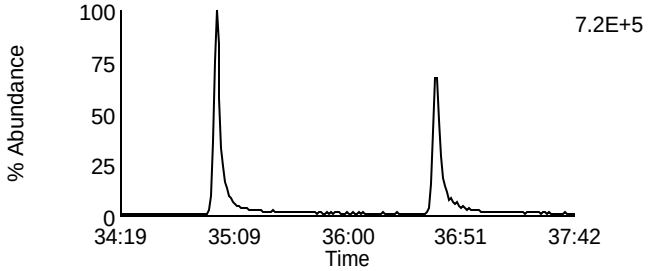


Homologue Group: Heptas

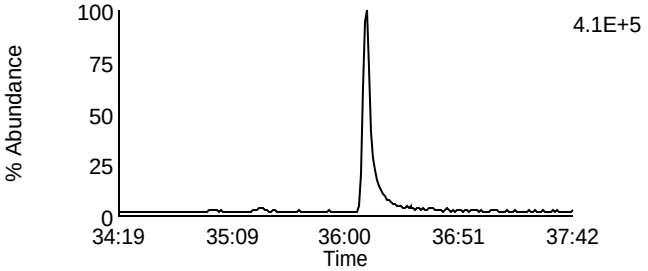
Data File Name: P130624B_02
Date Acquired: 6/24/2013
Sample Description: CAL CS2-7604-215 - SMT

Lab Sample ID: CS2-7604-215
Client Sample ID:
Instrument: 10MSHR09 (P)

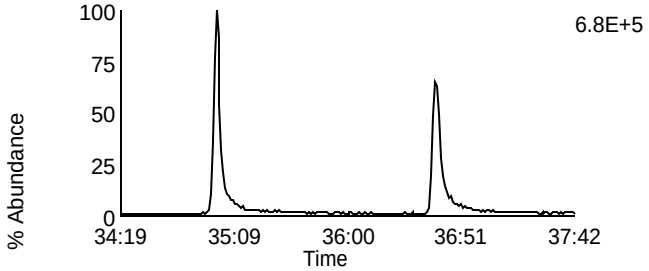
Data File: P130624B_02 G4 C3 - 407.7818
CAL CS2-7604-215 - SMT



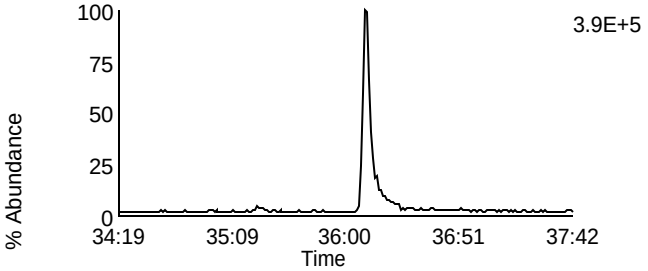
Data File: P130624B_02 G4 C8 - 423.7767
CAL CS2-7604-215 - SMT



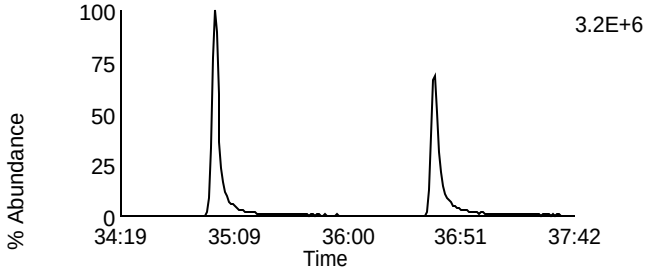
Data File: P130624B_02 G4 C4 - 409.7788
CAL CS2-7604-215 - SMT



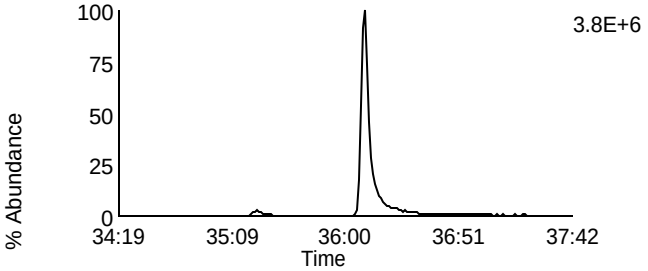
Data File: P130624B_02 G4 C9 - 425.7737
CAL CS2-7604-215 - SMT



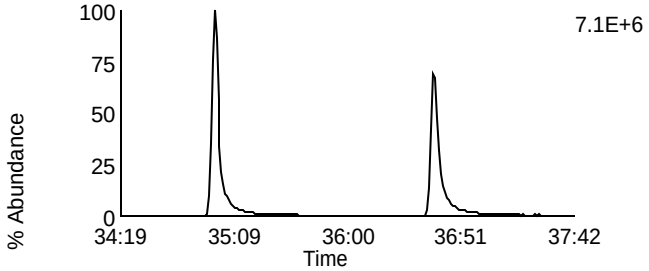
Data File: P130624B_02 G4 C6 - 417.825
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G4 C11 - 435.8169
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G4 C7 - 419.822
CAL CS2-7604-215 - SMT



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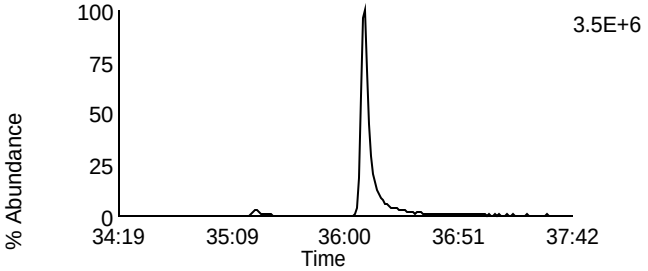
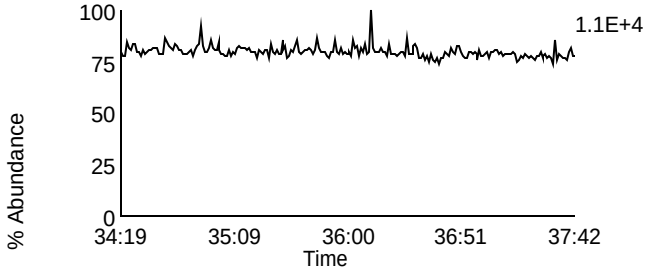
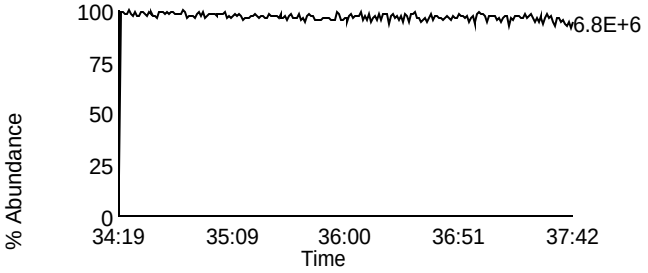
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G4 C13 - 479.7165
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G4 C1 - 380.976
CAL CS2-7604-215 - SMT

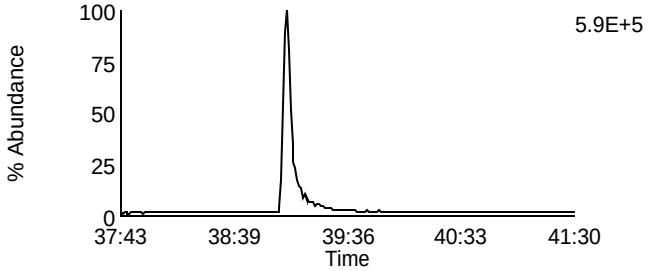


Homologue Group: Octas

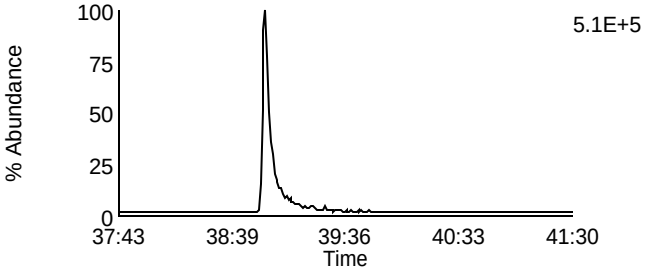
Data File Name: P130624B_02
Date Acquired: 6/24/2013
Sample Description: CAL CS2-7604-215 - SMT

Lab Sample ID: CS2-7604-215
Client Sample ID:
Instrument: 10MSHR09 (P)

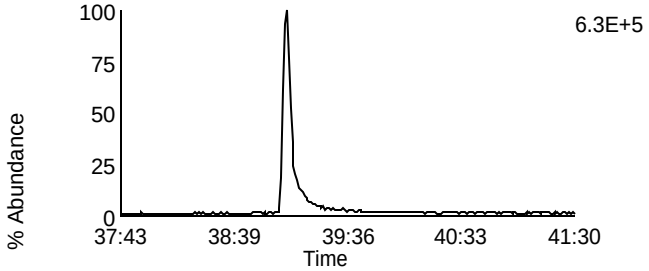
Data File: P130624B_02 G5 C4 - 441.7428
CAL CS2-7604-215 - SMT



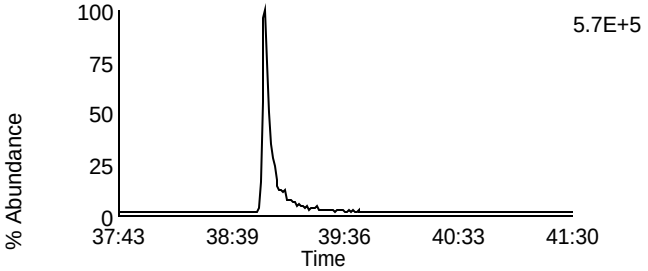
Data File: P130624B_02 G5 C8 - 457.7377
CAL CS2-7604-215 - SMT



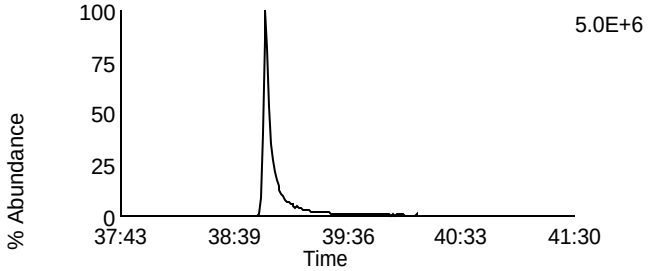
Data File: P130624B_02 G5 C5 - 443.7398
CAL CS2-7604-215 - SMT



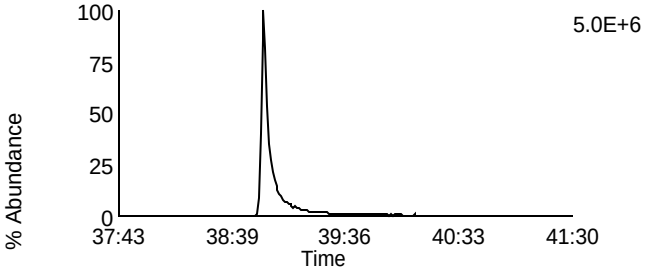
Data File: P130624B_02 G5 C9 - 459.7347
CAL CS2-7604-215 - SMT



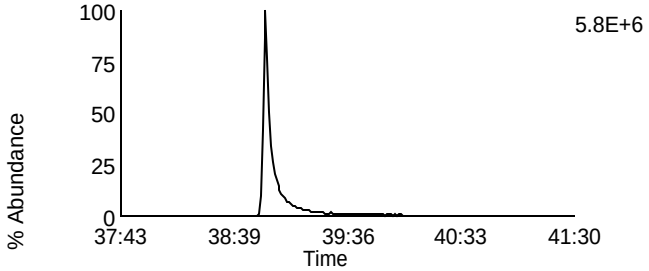
Data File: P130624B_02 G5 C11 - 469.7779
CAL CS2-7604-215 - SMT



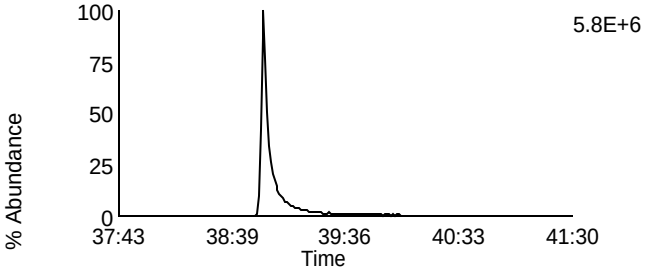
Data File: P130624B_02 G5 C11 - 469.7779
CAL CS2-7604-215 - SMT



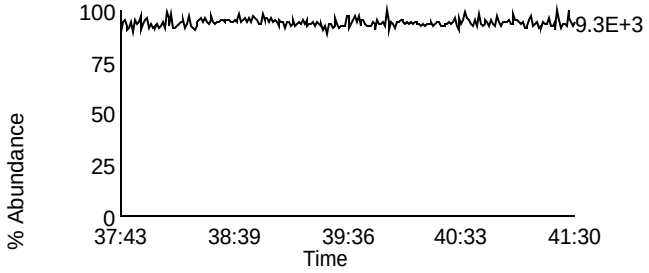
Data File: P130624B_02 G5 C12 - 471.7749
CAL CS2-7604-215 - SMT



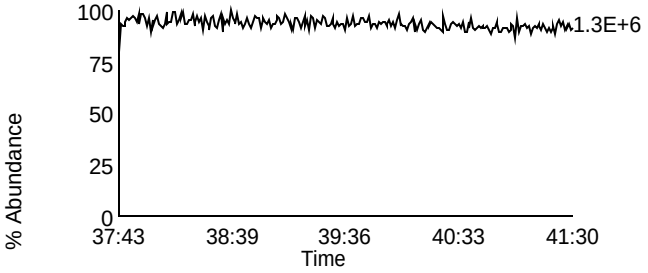
Data File: P130624B_02 G5 C12 - 471.7749
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G5 C13 - 513.6775
CAL CS2-7604-215 - SMT



Data File: P130624B_02 G5 C2 - 430.9728
CAL CS2-7604-215 - SMT

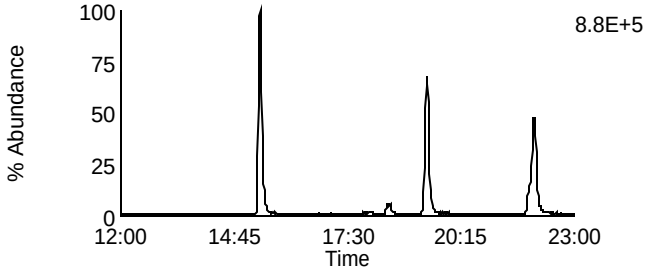


Homologue Group: Tetras

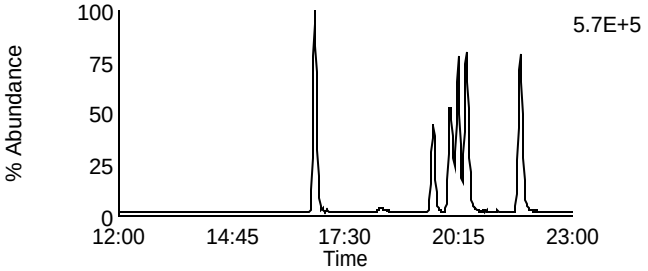
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

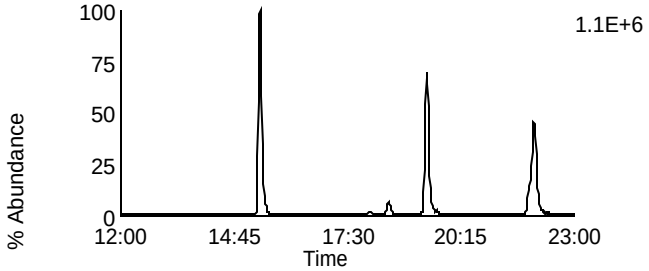
Data File: P130624B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-272 - SMT AS Ca



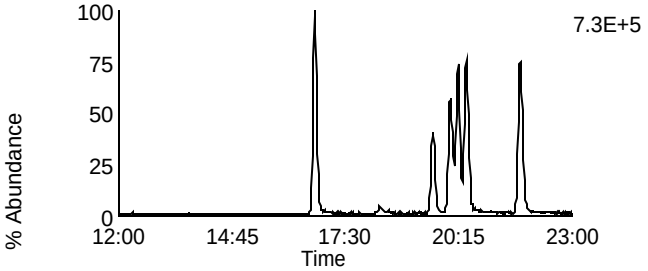
Data File: P130624B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-272 - SMT AS Ca



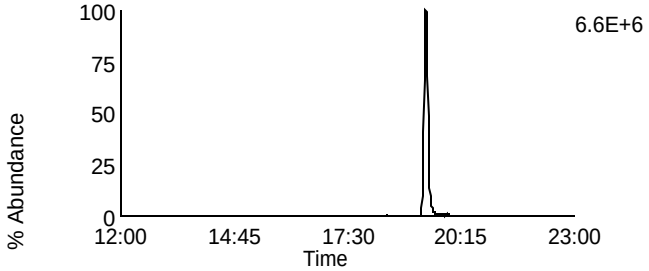
Data File: P130624B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-272 - SMT AS Ca



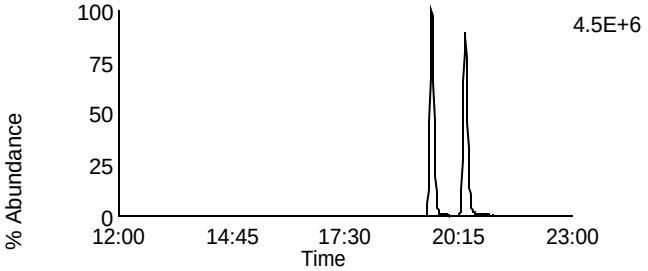
Data File: P130624B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-272 - SMT AS Ca



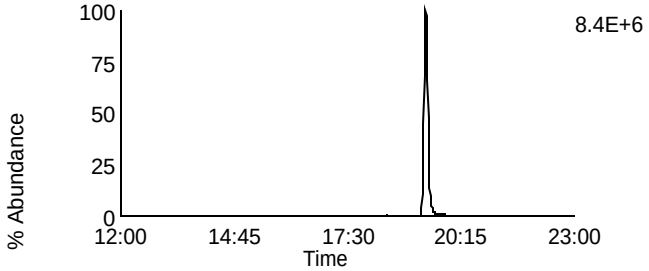
Data File: P130624B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-272 - SMT AS Ca



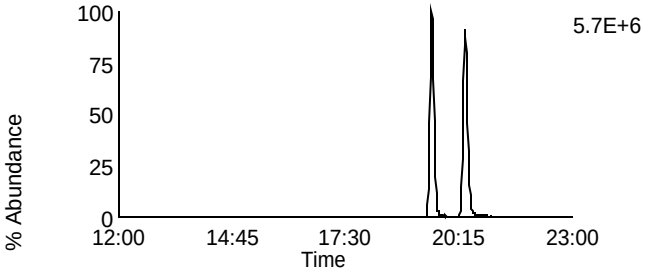
Data File: P130624B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-272 - SMT AS Ca



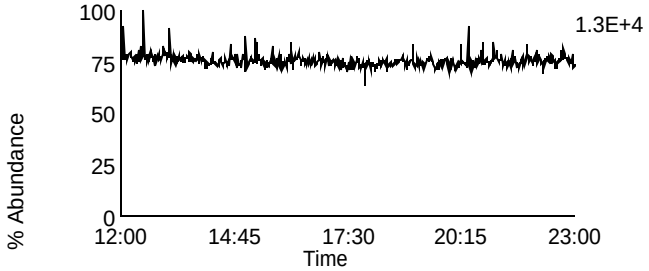
Data File: P130624B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-272 - SMT AS Ca



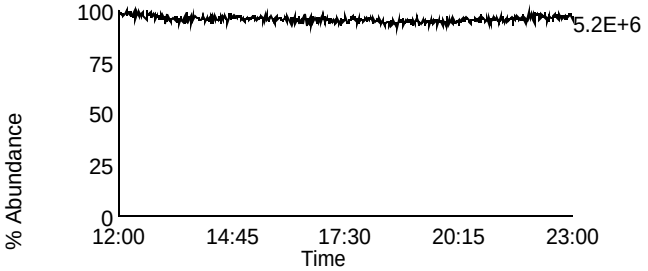
Data File: P130624B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

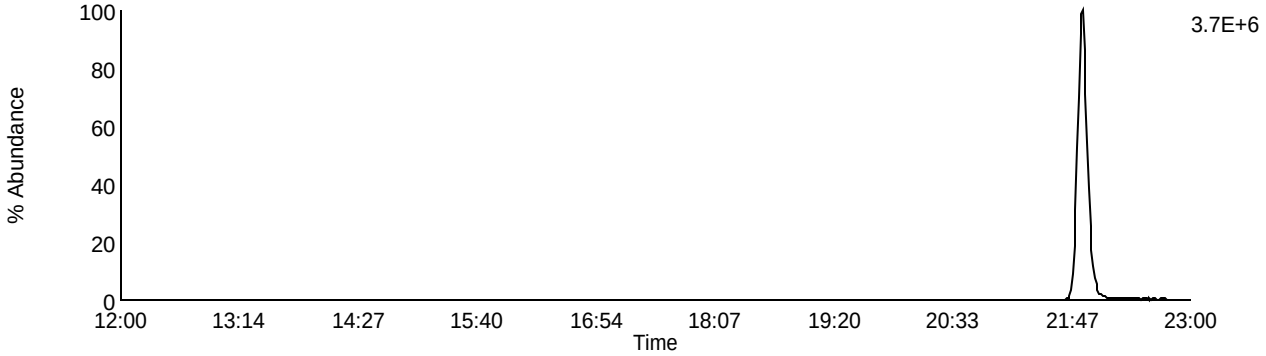


Homologue Group: Penta & Cleanup

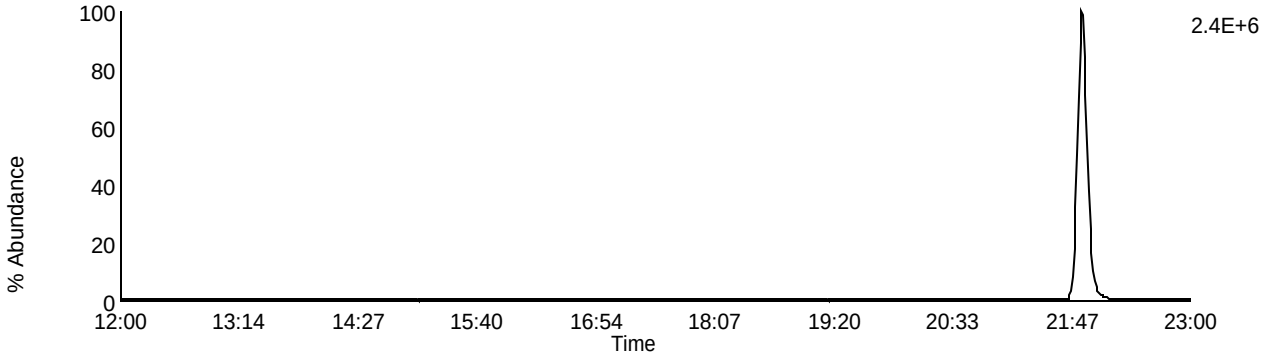
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

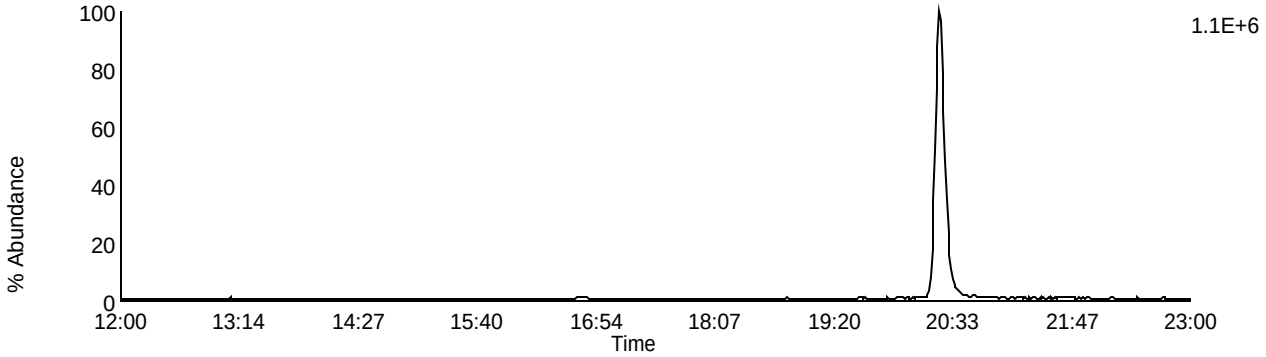
Data File: P130624B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-272 - SMT AS Ca



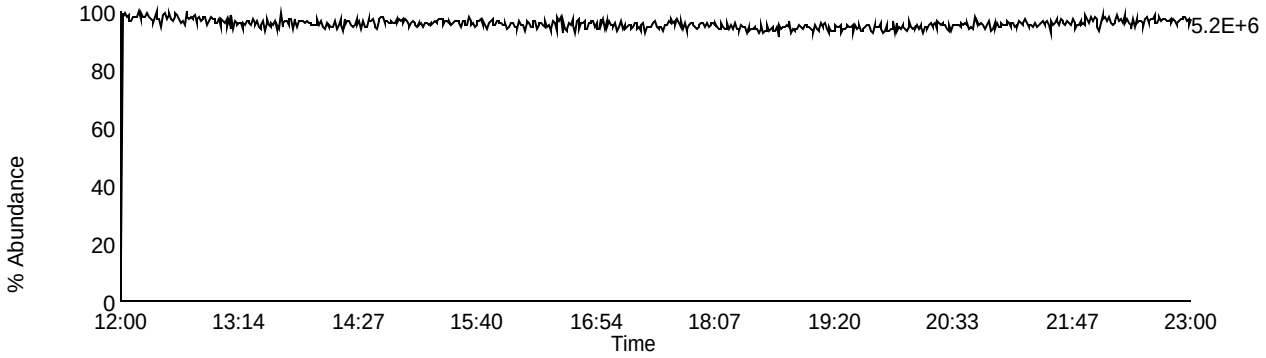
Data File: P130624B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

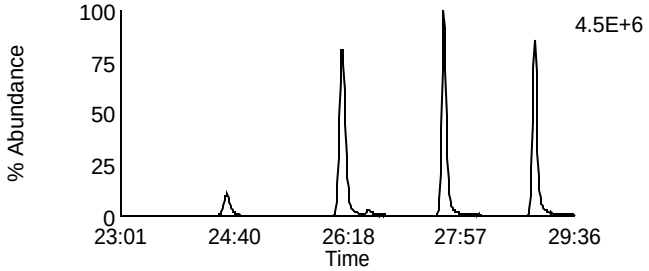


Homologue Group: Pentas

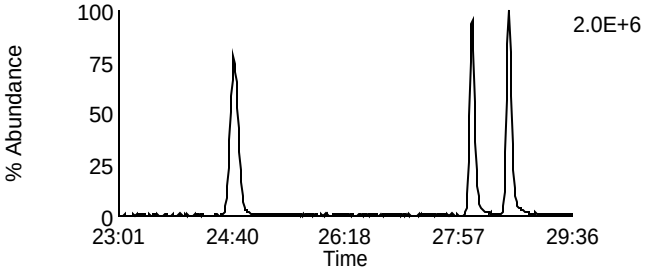
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

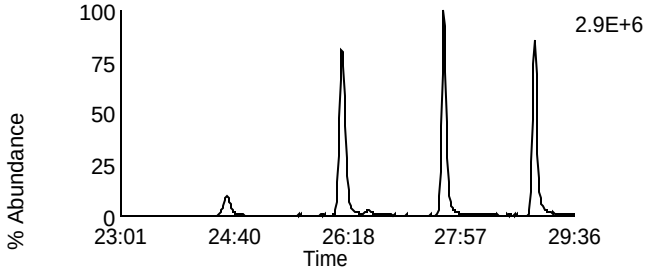
Data File: P130624B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-272 - SMT AS Ca



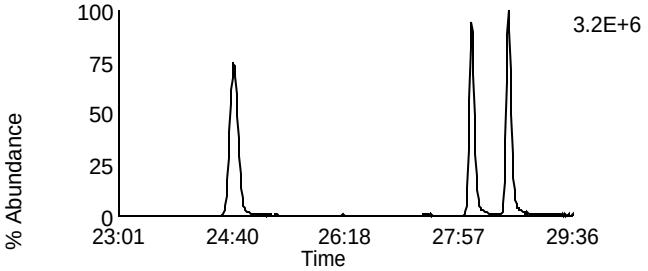
Data File: P130624B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-272 - SMT AS Ca



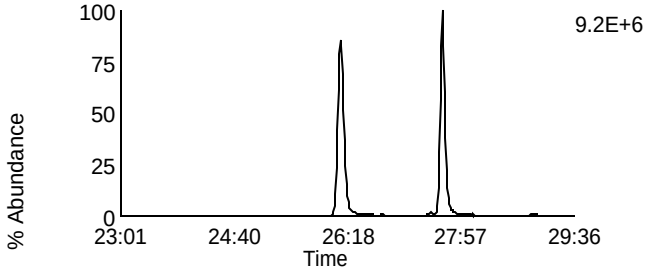
Data File: P130624B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-272 - SMT AS Ca



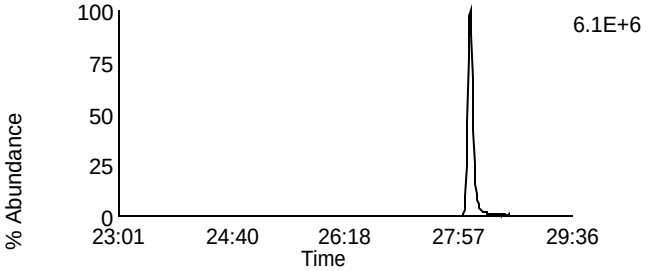
Data File: P130624B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-272 - SMT AS Ca



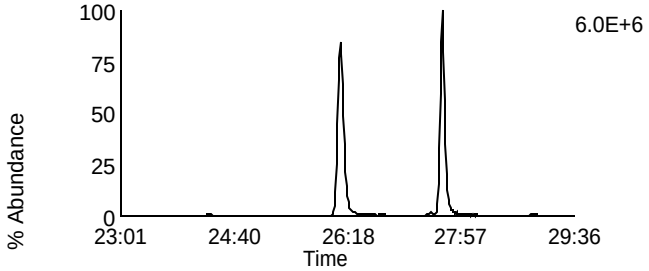
Data File: P130624B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-272 - SMT AS Ca



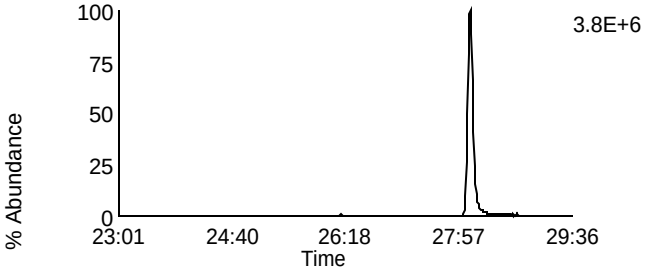
Data File: P130624B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-272 - SMT AS Ca



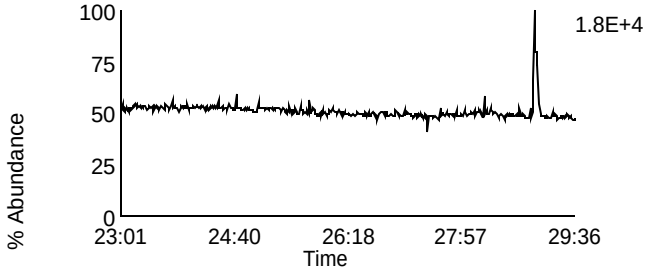
Data File: P130624B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-272 - SMT AS Ca



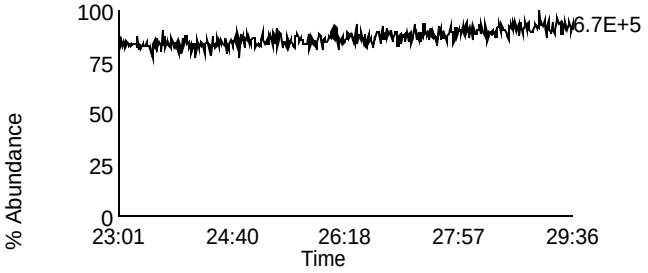
Data File: P130624B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

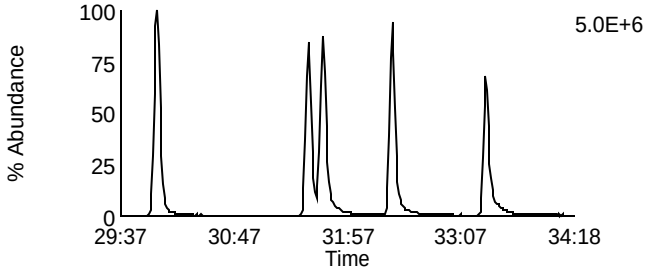


Homologue Group: Hexas

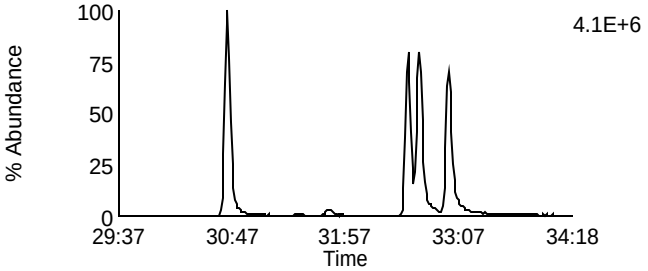
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

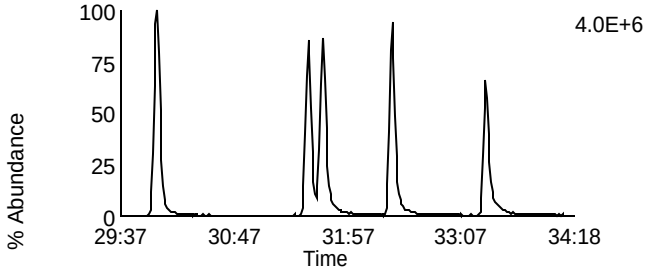
Data File: P130624B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-272 - SMT AS Ca



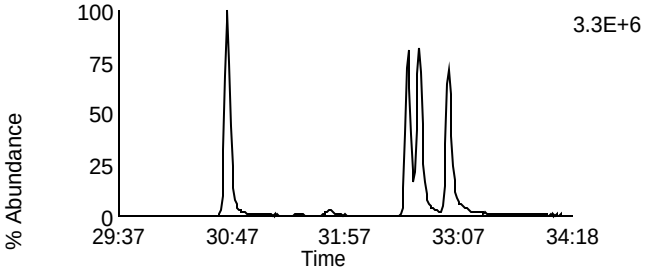
Data File: P130624B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-272 - SMT AS Ca



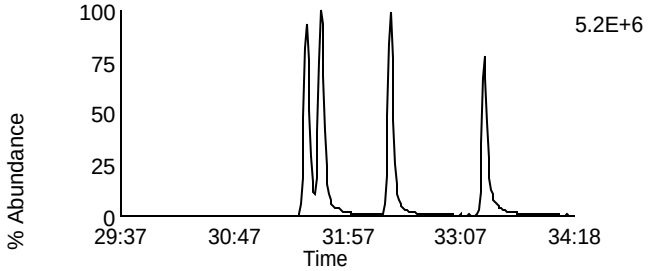
Data File: P130624B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-272 - SMT AS Ca



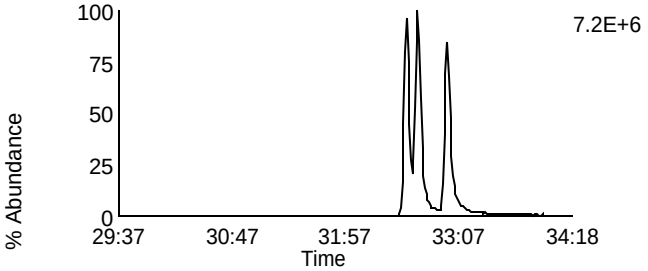
Data File: P130624B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-272 - SMT AS Ca



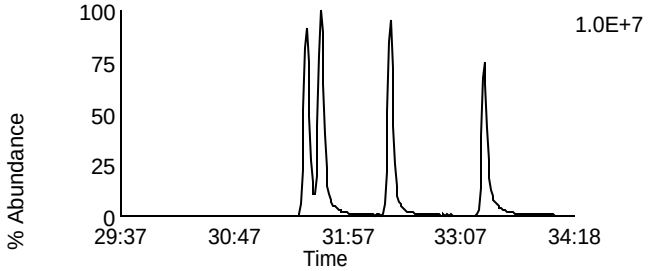
Data File: P130624B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-272 - SMT AS Ca



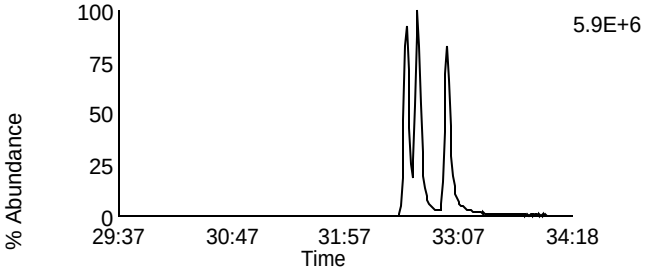
Data File: P130624B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-272 - SMT AS Ca



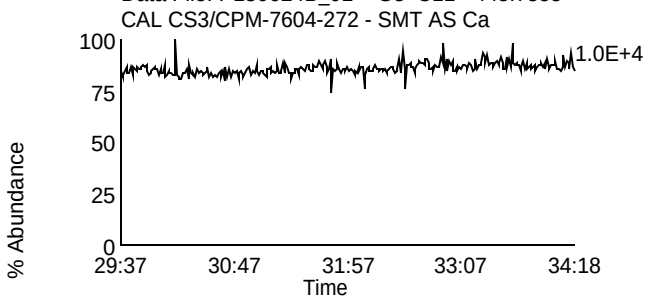
Data File: P130624B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-272 - SMT AS Ca



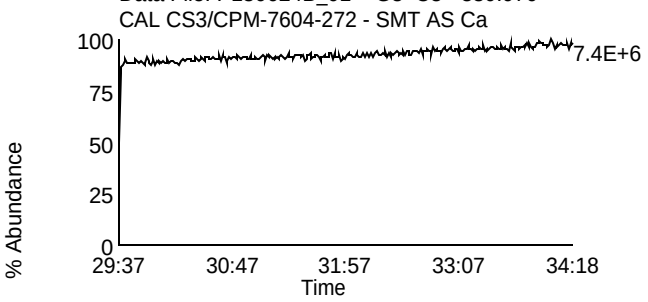
Data File: P130624B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-272 - SMT AS Ca

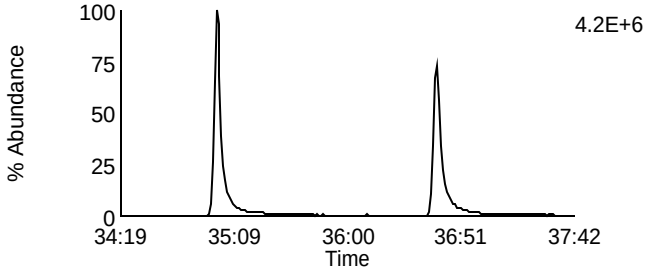


Homologue Group: Heptas

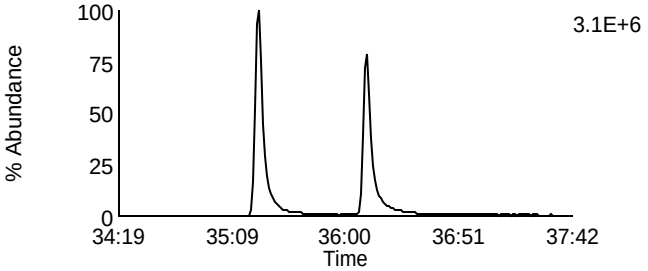
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

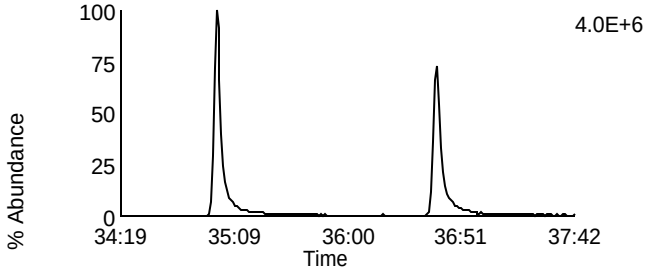
Data File: P130624B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-272 - SMT AS Ca



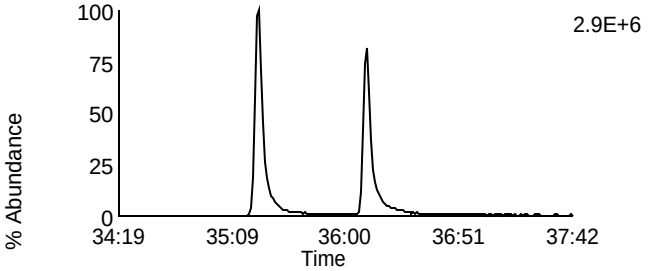
Data File: P130624B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-272 - SMT AS Ca



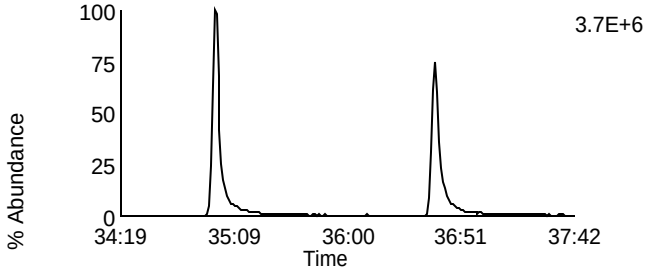
Data File: P130624B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-272 - SMT AS Ca



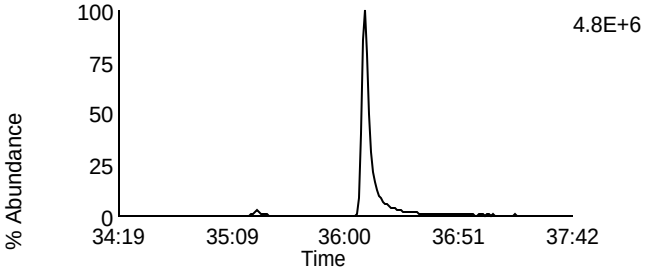
Data File: P130624B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-272 - SMT AS Ca



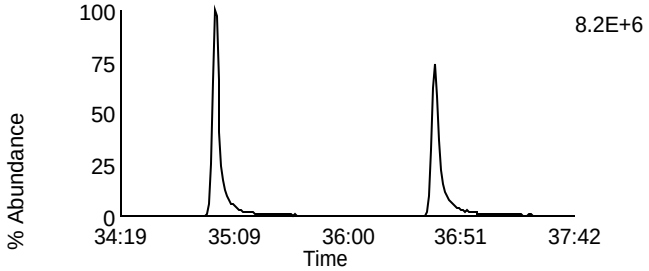
Data File: P130624B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-272 - SMT AS Ca



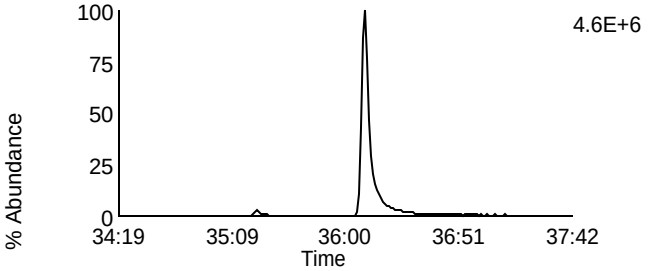
Data File: P130624B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-272 - SMT AS Ca



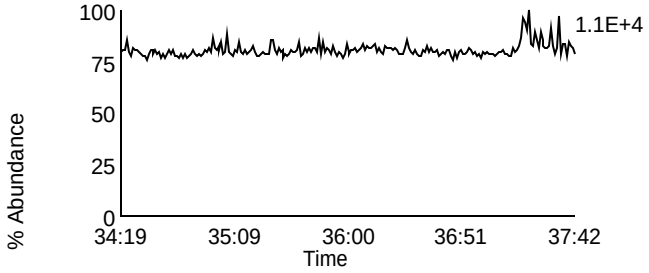
Data File: P130624B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-272 - SMT AS Ca



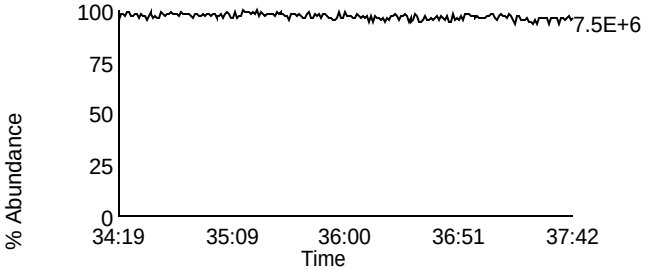
Data File: P130624B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-272 - SMT AS Ca

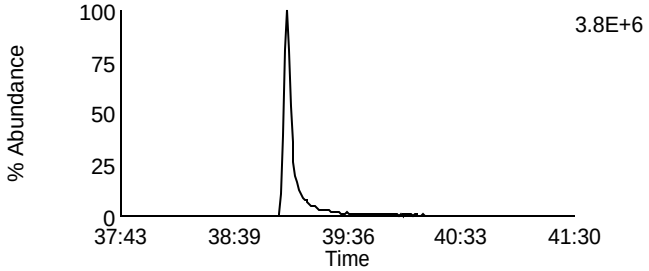


Homologue Group: Octas

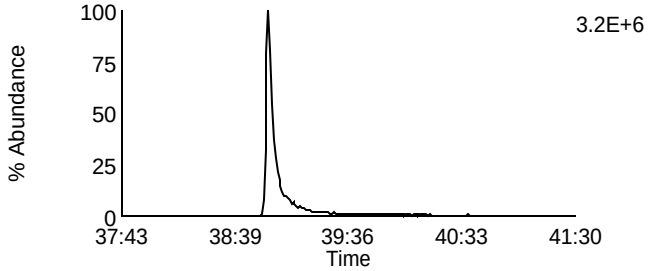
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID:
Instrument: 10MSHR09 (P)

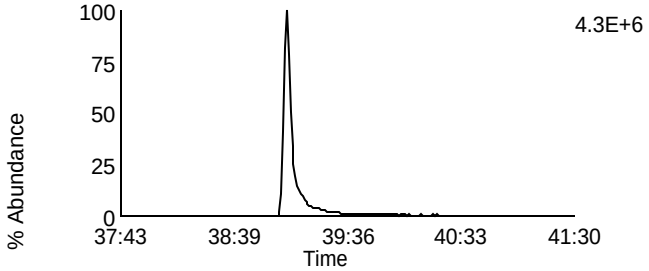
Data File: P130624B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-272 - SMT AS Ca



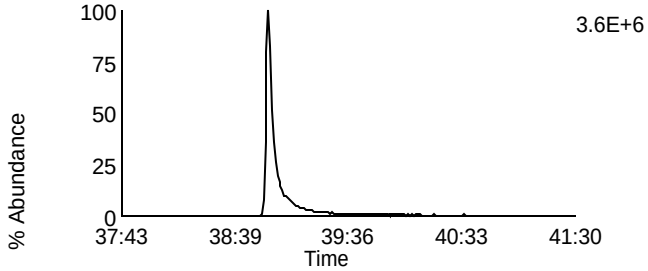
Data File: P130624B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-272 - SMT AS Ca



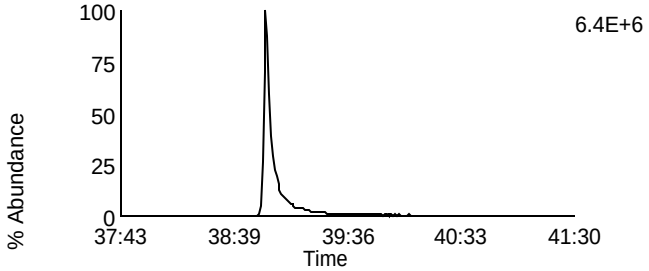
Data File: P130624B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-272 - SMT AS Ca



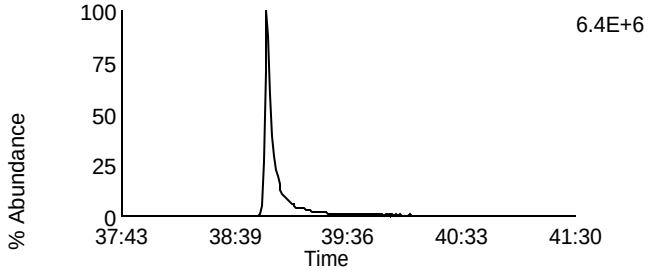
Data File: P130624B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-272 - SMT AS Ca



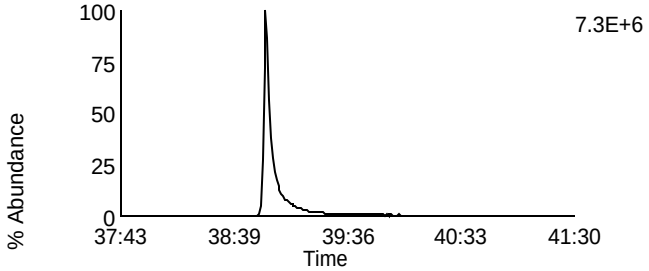
Data File: P130624B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-272 - SMT AS Ca



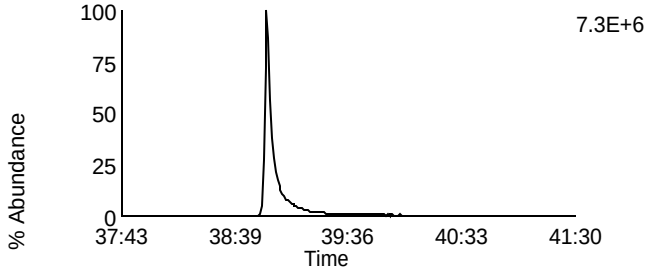
Data File: P130624B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-272 - SMT AS Ca



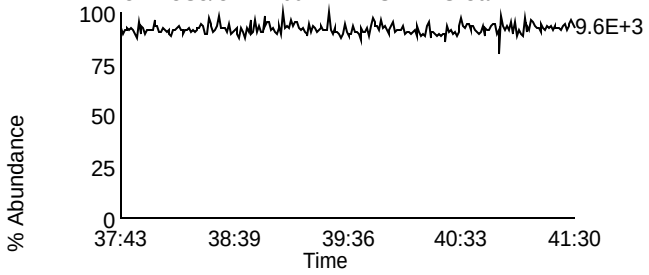
Data File: P130624B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-272 - SMT AS Ca



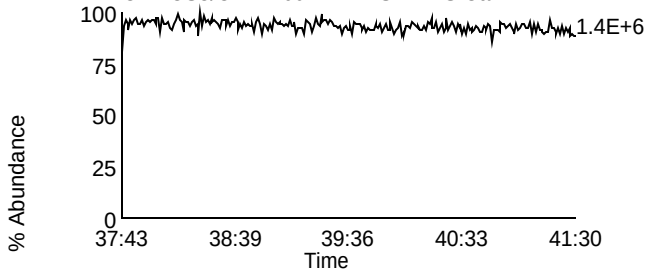
Data File: P130624B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-272 - SMT AS Ca

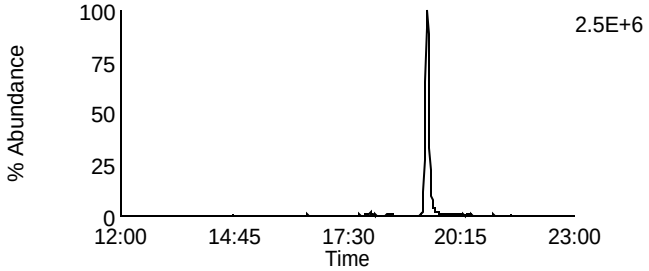


Homologue Group: Tetras

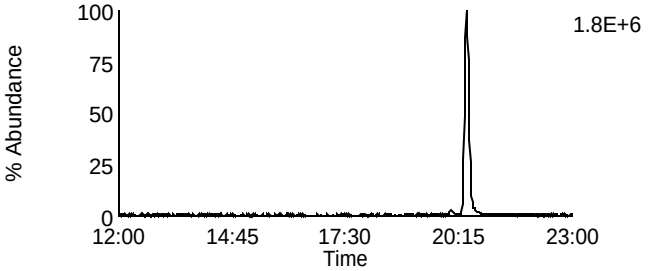
Data File Name: P130624B_05
Date Acquired: 6/24/2013
Sample Description: CAL CS4-7604-216 - SMT

Lab Sample ID: CS4-7604-216
Client Sample ID:
Instrument: 10MSHR09 (P)

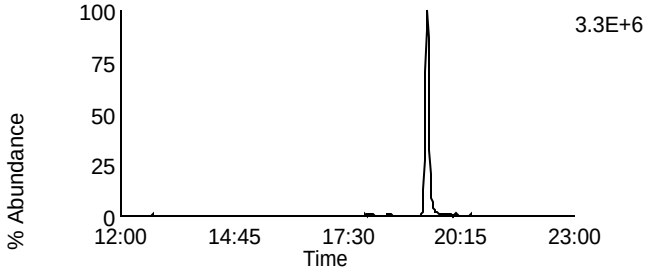
Data File: P130624B_05 G1 C1 - 303.9016
CAL CS4-7604-216 - SMT



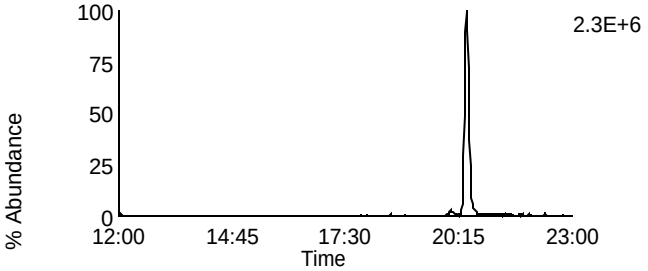
Data File: P130624B_05 G1 C7 - 319.8965
CAL CS4-7604-216 - SMT



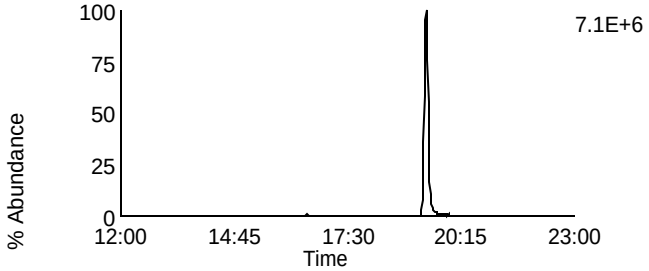
Data File: P130624B_05 G1 C2 - 305.8987
CAL CS4-7604-216 - SMT



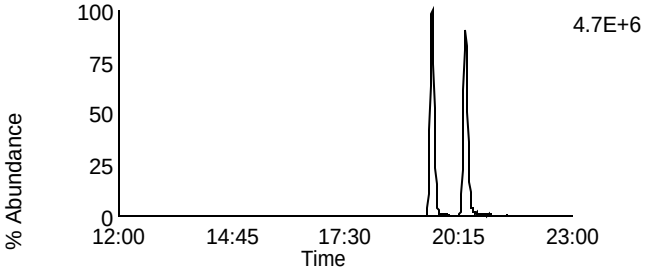
Data File: P130624B_05 G1 C8 - 321.8936
CAL CS4-7604-216 - SMT



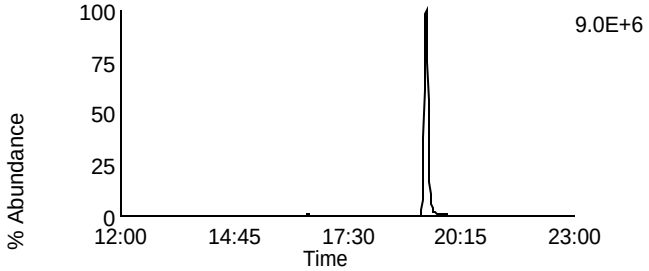
Data File: P130624B_05 G1 C3 - 315.9418
CAL CS4-7604-216 - SMT



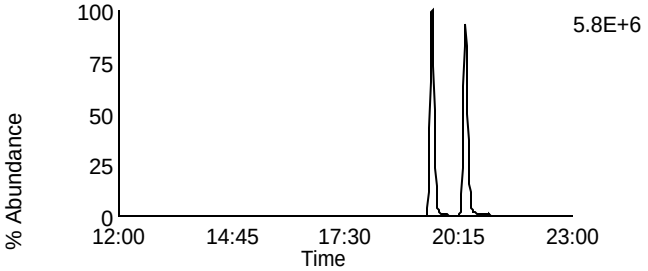
Data File: P130624B_05 G1 C10 - 331.9367
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G1 C4 - 317.9389
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G1 C11 - 333.9338
CAL CS4-7604-216 - SMT



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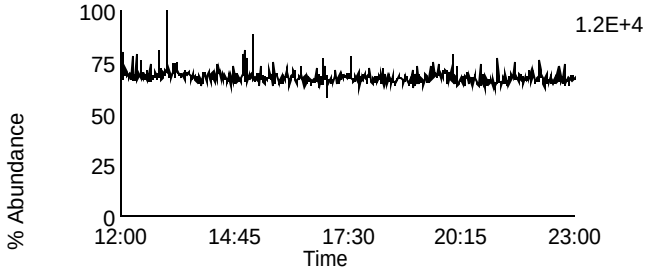
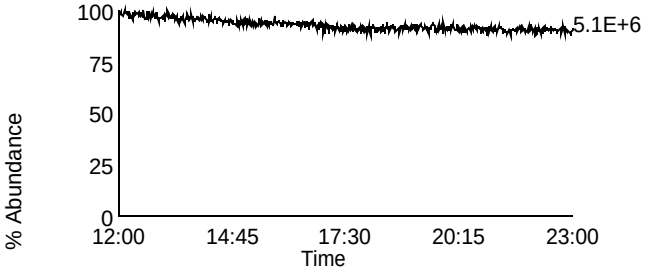
CAL CS4-7604-216 - SMT



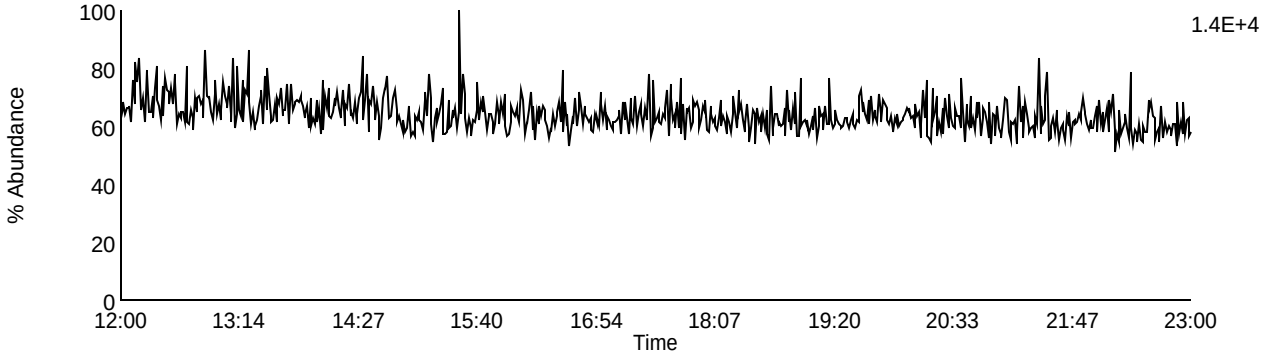
Data File: P130624B_05 G1 C5 - 318.9792
CAL CS4-7604-216 - SMT



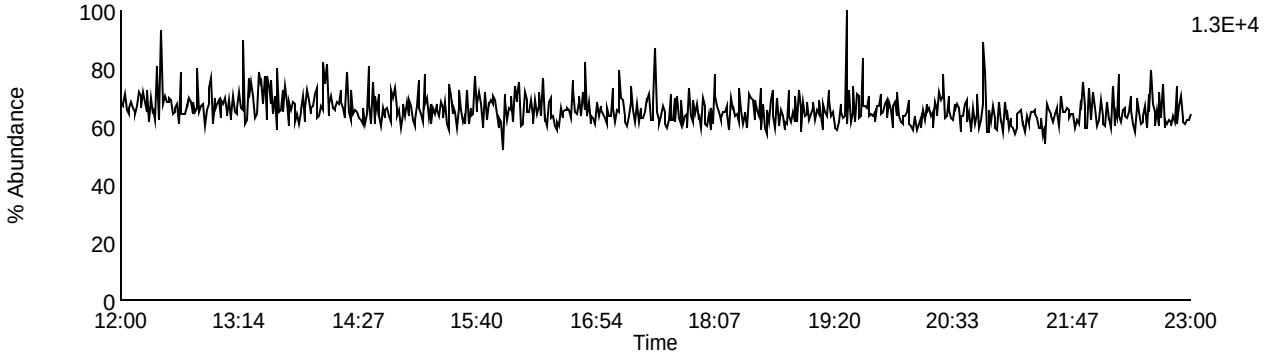
Homologue Group: Penta & Cleanup

Data File Name: P130624B_05	Lab Sample ID: CS4-7604-216
Date Acquired: 6/24/2013	Client Sample ID:
Sample Description: CAL CS4-7604-216 - SMT	Instrument: 10MSHR09 (P)

Data File: P130624B_05 G1 C12 - 339.8597
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G1 C13 - 341.8567
CAL CS4-7604-216 - SMT



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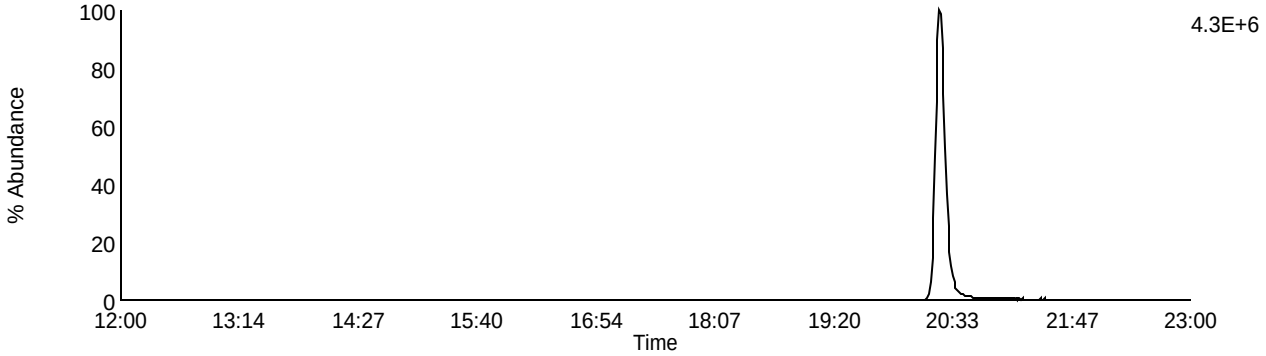
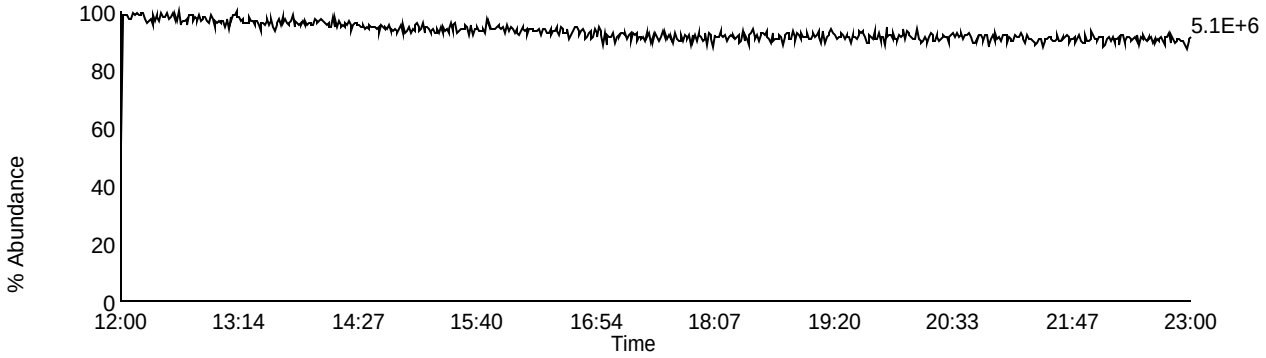
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G1 C5 - 318.9792
CAL CS4-7604-216 - SMT

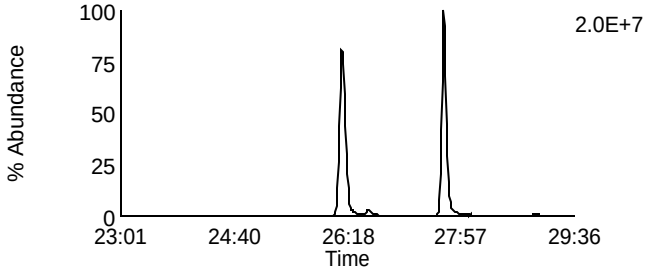


Homologue Group: Pentas

Data File Name: P130624B_05
Date Acquired: 6/24/2013
Sample Description: CAL CS4-7604-216 - SMT

Lab Sample ID: CS4-7604-216
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_05 G2 C1 - 339.8597
CAL CS4-7604-216 - SMT



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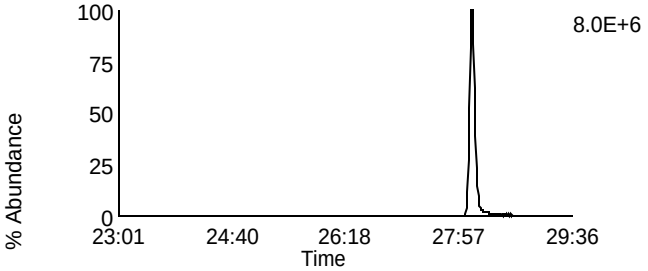
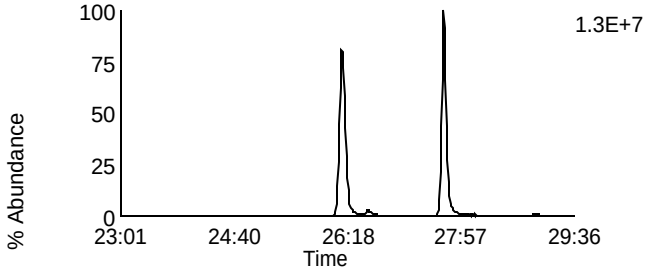
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G2 C2 - 341.8567
CAL CS4-7604-216 - SMT



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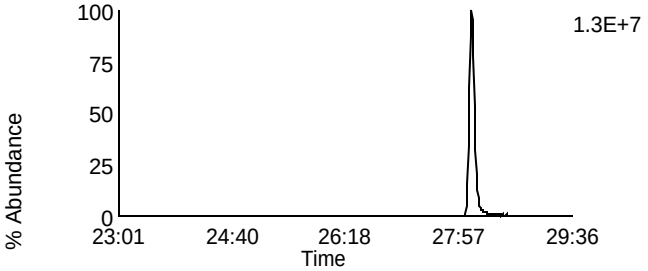
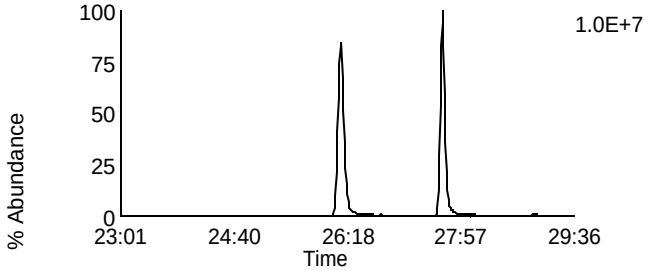
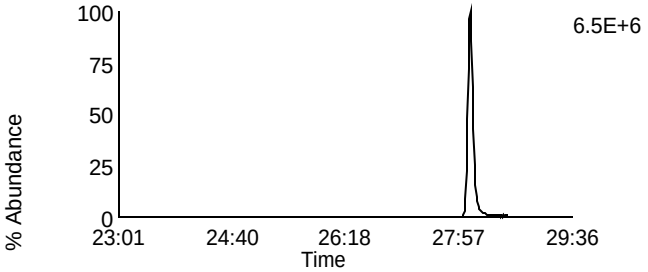
CAL CS4-7604-216 - SMT



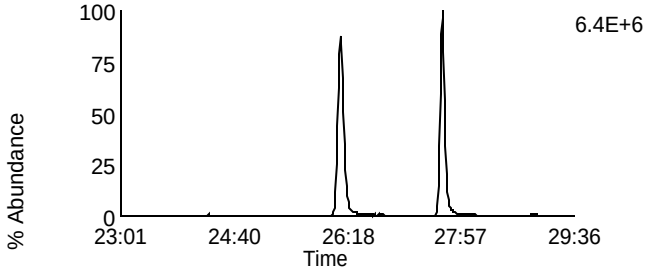
Data File: P130624B_05 G2 C3 - 351.8999
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G2 C10 - 367.8948
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G2 C5 - 353.8969
CAL CS4-7604-216 - SMT



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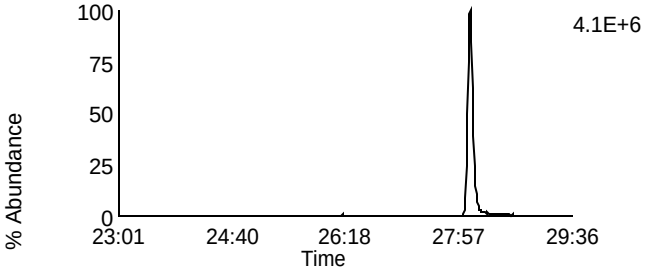
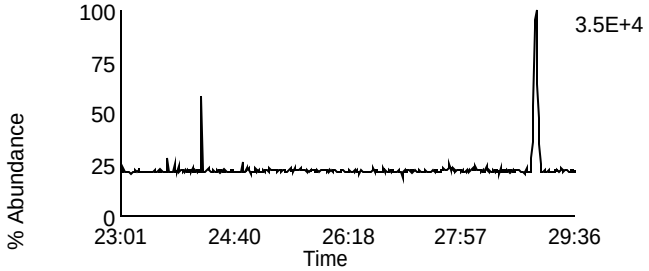
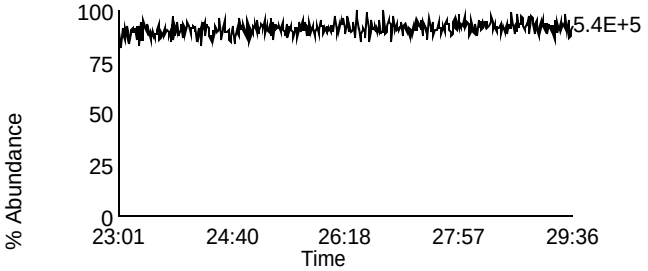
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G2 C12 - 409.7974
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G2 C6 - 354.9792
CAL CS4-7604-216 - SMT

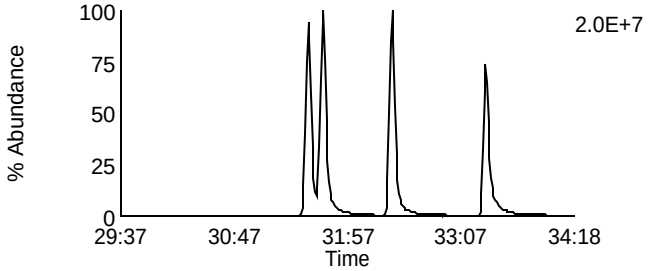


Homologue Group: Hexas

Data File Name: P130624B_05
Date Acquired: 6/24/2013
Sample Description: CAL CS4-7604-216 - SMT

Lab Sample ID: CS4-7604-216
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_05 G3 C1 - 373.8207
CAL CS4-7604-216 - SMT



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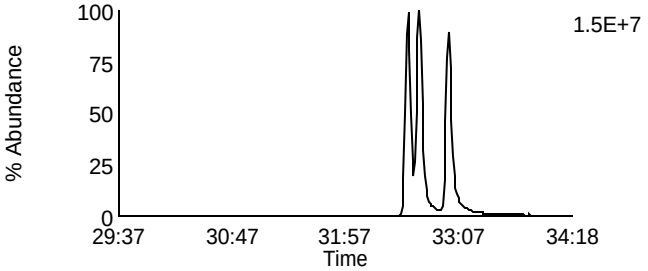
CAL CS4-7604-216 - SMT



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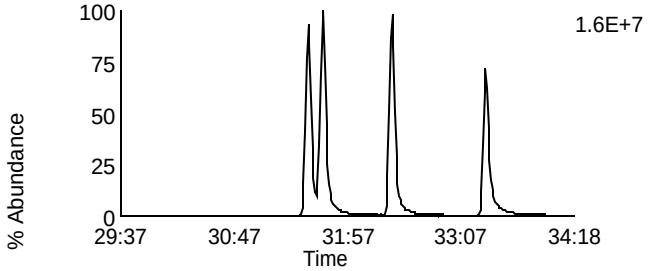
CAL CS4-7604-216 - SMT



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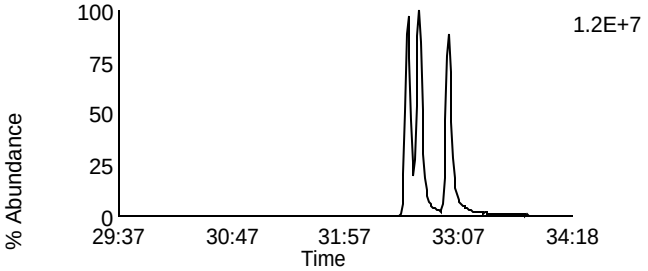
CAL CS4-7604-216 - SMT



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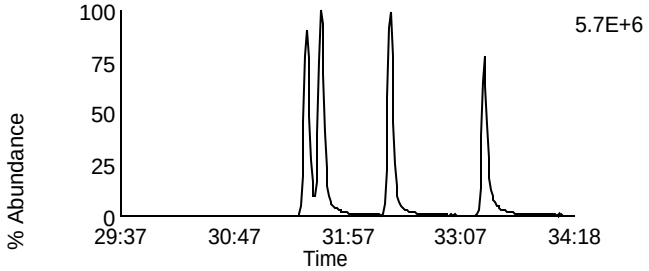
CAL CS4-7604-216 - SMT



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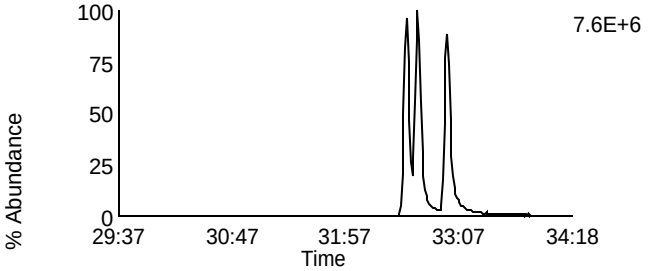
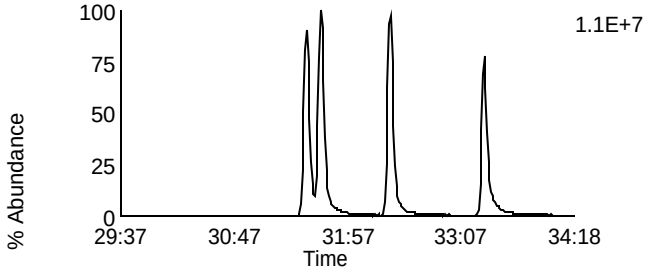
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G3 C6 - 385.861
CAL CS4-7604-216 - SMT



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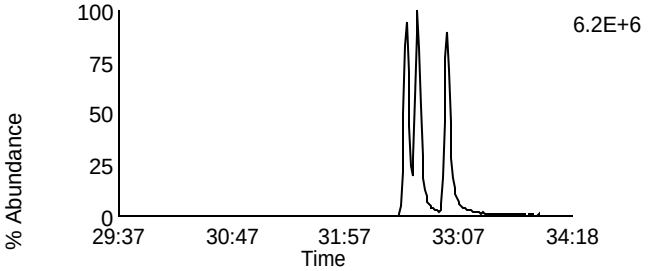

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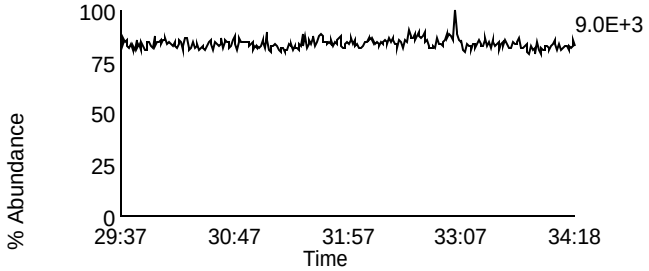
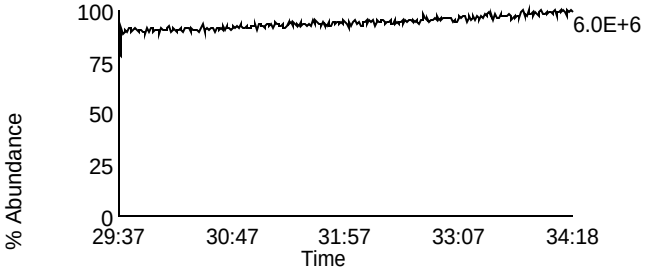
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G3 C3 - 380.976
CAL CS4-7604-216 - SMT

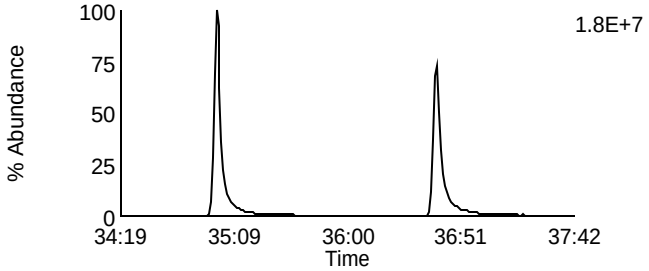


Homologue Group: Heptas

Data File Name: P130624B_05
Date Acquired: 6/24/2013
Sample Description: CAL CS4-7604-216 - SMT

Lab Sample ID: CS4-7604-216
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_05 G4 C3 - 407.7818
CAL CS4-7604-216 - SMT



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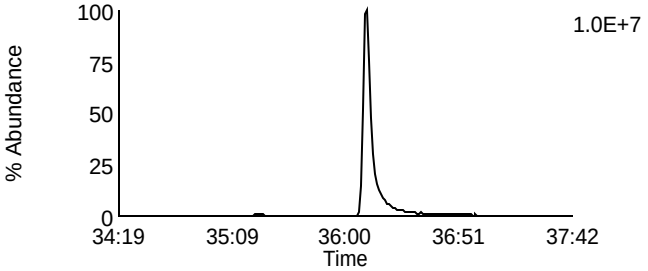
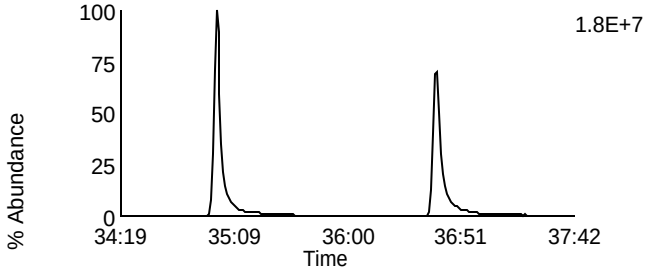
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G4 C4 - 409.7788
CAL CS4-7604-216 - SMT



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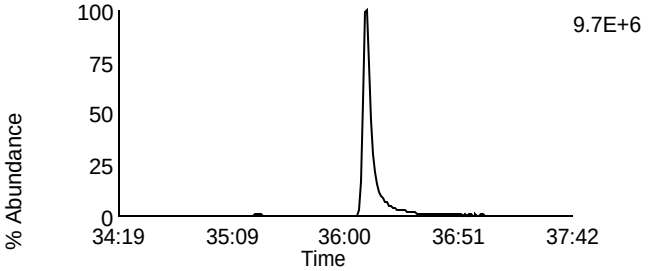
CAL CS4-7604-216 - SMT



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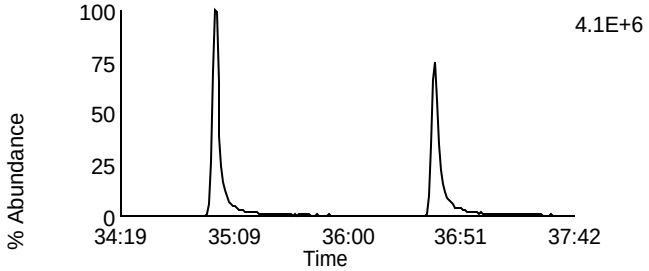
CAL CS4-7604-216 - SMT



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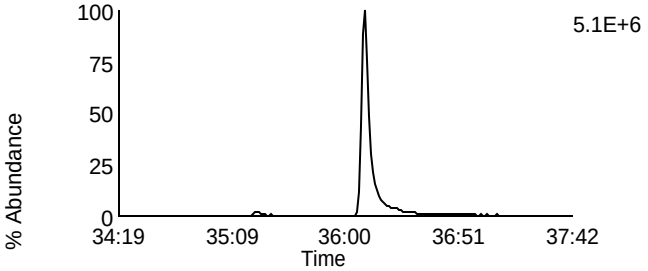
CAL CS4-7604-216 - SMT



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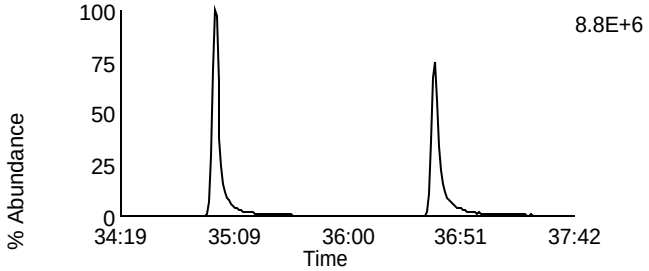
CAL CS4-7604-216 - SMT



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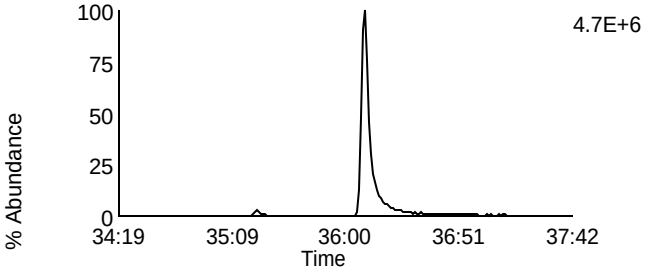

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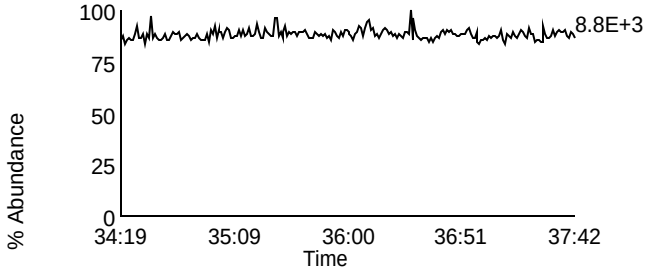
CAL CS4-7604-216 - SMT



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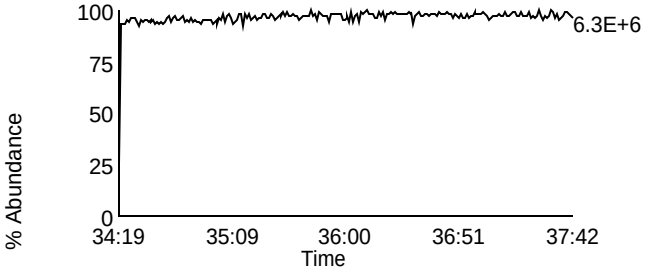
CAL CS4-7604-216 - SMT

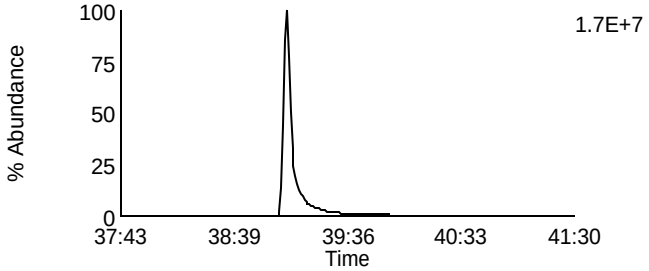


Homologue Group: Octas

Data File Name: P130624B_05
Date Acquired: 6/24/2013
Sample Description: CAL CS4-7604-216 - SMT

Lab Sample ID: CS4-7604-216
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_05 G5 C4 - 441.7428
CAL CS4-7604-216 - SMT



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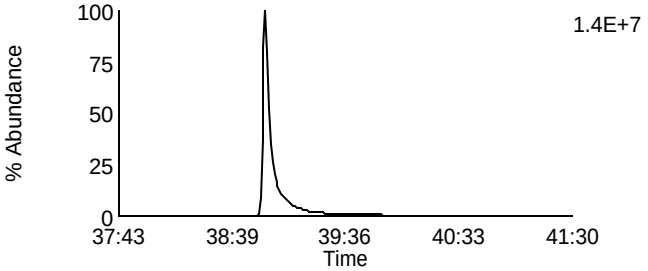
CAL CS4-7604-216 - SMT



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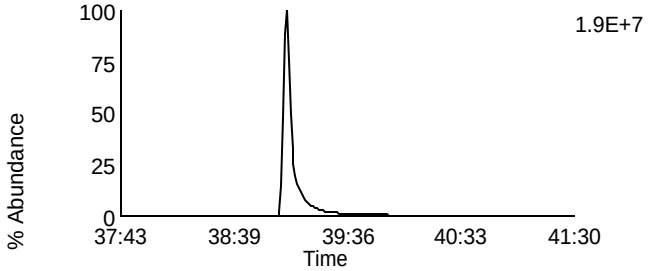
CAL CS4-7604-216 - SMT



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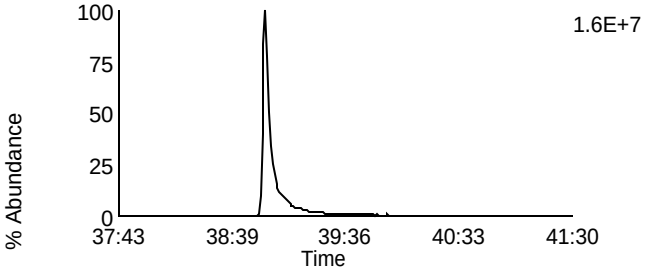
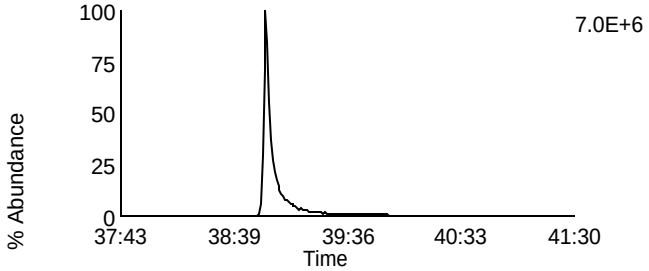
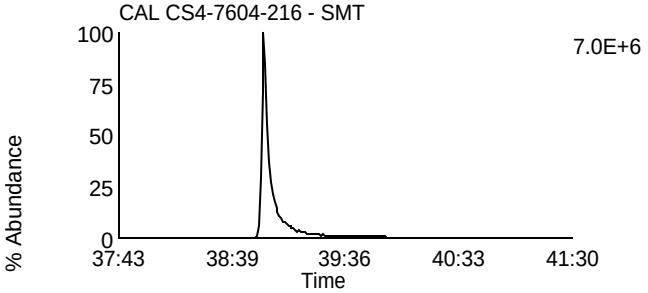
CAL CS4-7604-216 - SMT



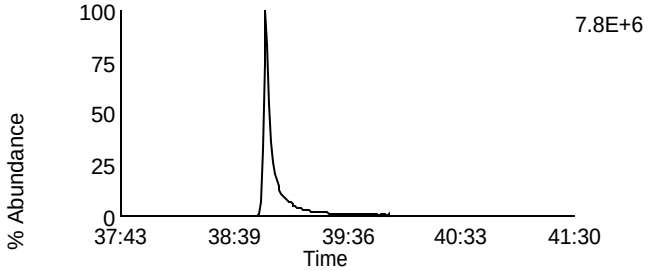
Data File: P130624B_05 G5 C11 - 469.7779
CAL CS4-7604-216 - SMT



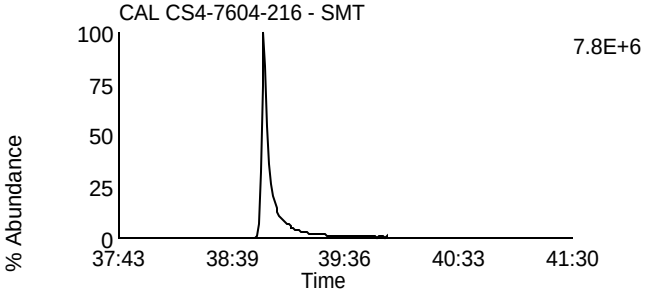
Data File: P130624B_05 G5 C11 - 469.7779
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G5 C12 - 471.7749
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G5 C12 - 471.7749
CAL CS4-7604-216 - SMT



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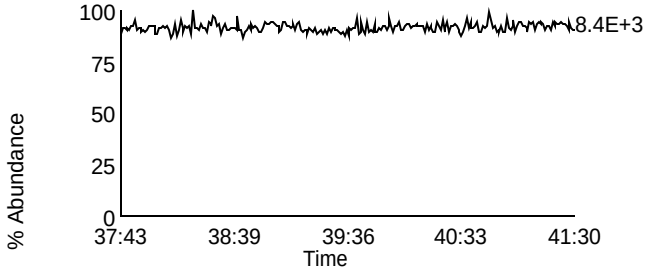
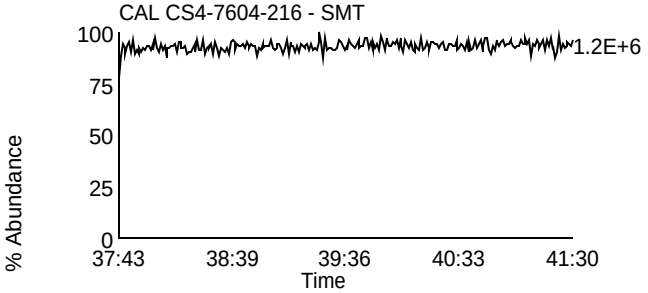
CAL CS4-7604-216 - SMT



Data File: P130624B_05 G5 C2 - 430.9728
CAL CS4-7604-216 - SMT

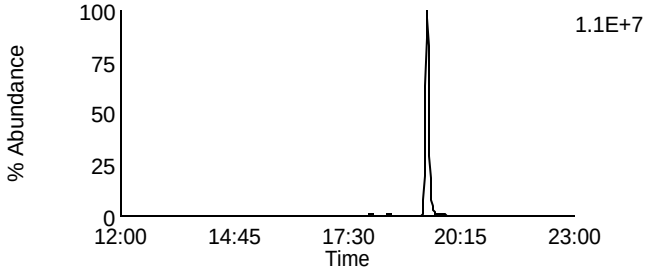


Homologue Group: Tetras

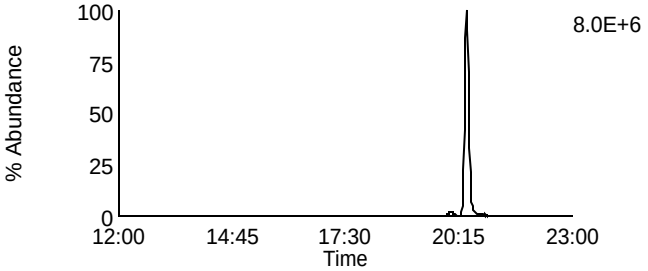
Data File Name: P130624B_04
Date Acquired: 6/24/2013
Sample Description: CAL CS5-7604-217 - SMT

Lab Sample ID: CS5-7604-217
Client Sample ID:
Instrument: 10MSHR09 (P)

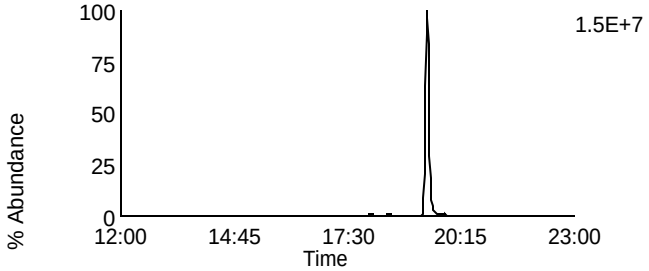
Data File: P130624B_04 G1 C1 - 303.9016
CAL CS5-7604-217 - SMT



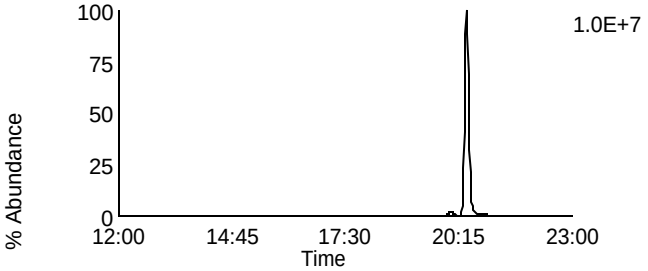
Data File: P130624B_04 G1 C7 - 319.8965
CAL CS5-7604-217 - SMT



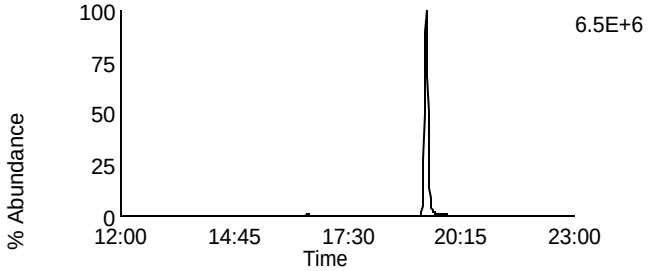
Data File: P130624B_04 G1 C2 - 305.8987
CAL CS5-7604-217 - SMT



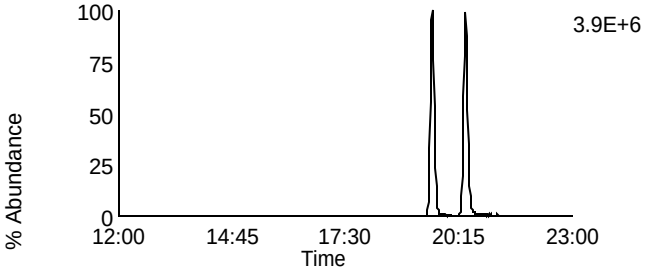
Data File: P130624B_04 G1 C8 - 321.8936
CAL CS5-7604-217 - SMT



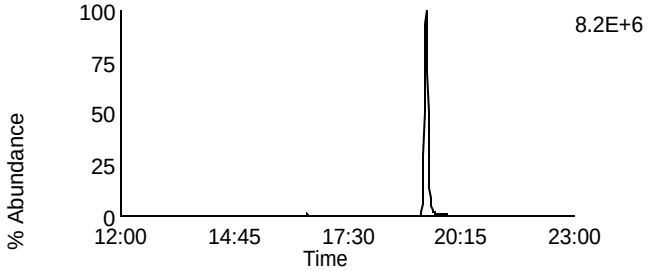
Data File: P130624B_04 G1 C3 - 315.9418
CAL CS5-7604-217 - SMT



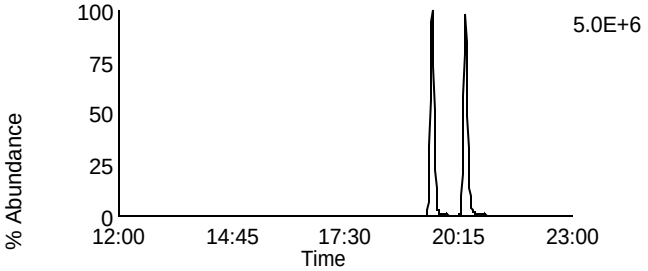
Data File: P130624B_04 G1 C10 - 331.9367
CAL CS5-7604-217 - SMT



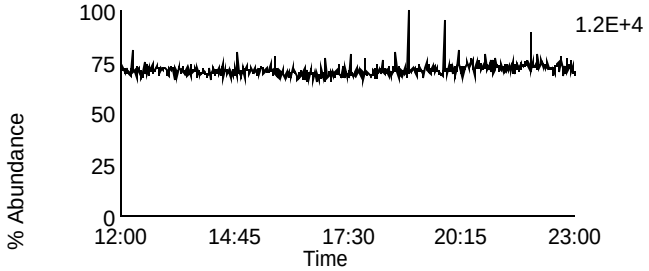
Data File: P130624B_04 G1 C4 - 317.9389
CAL CS5-7604-217 - SMT



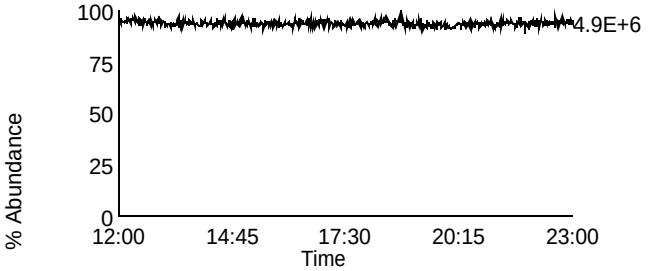
Data File: P130624B_04 G1 C11 - 333.9338
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G1 C14 - 375.8364
CAL CS5-7604-217 - SMT



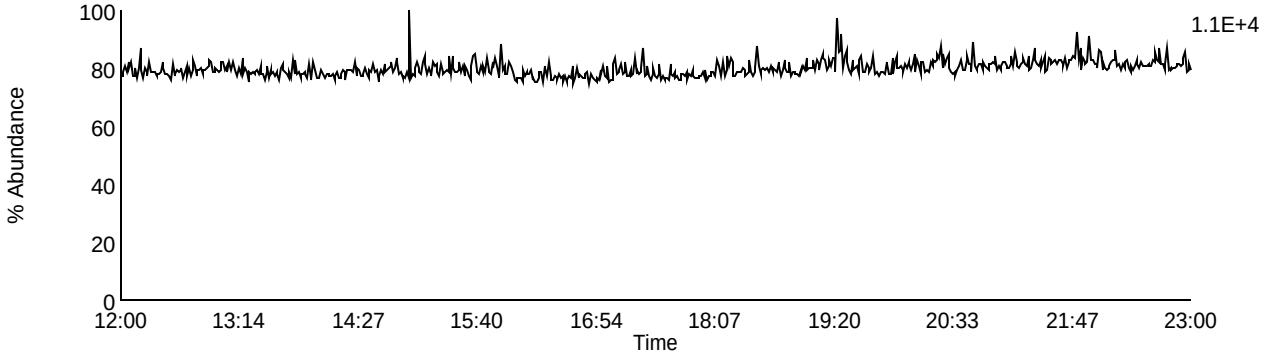
Data File: P130624B_04 G1 C5 - 318.9792
CAL CS5-7604-217 - SMT



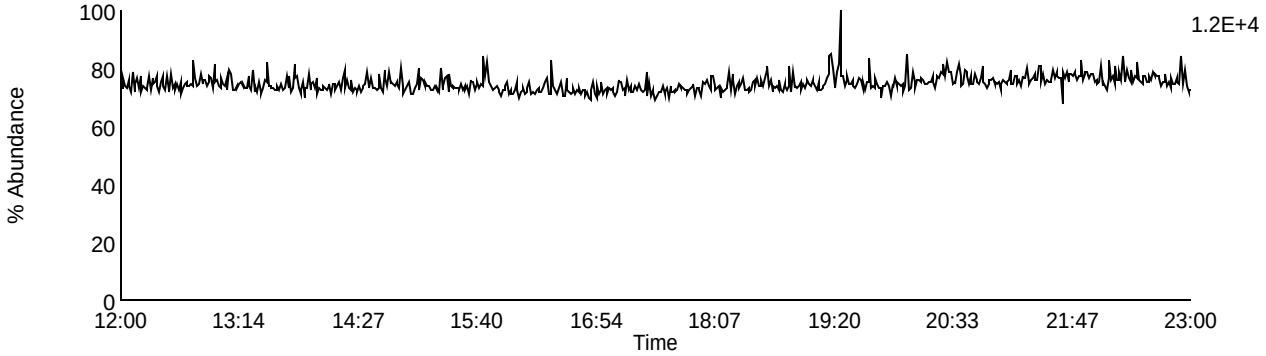
Homologue Group: Penta & Cleanup

Data File Name: P130624B_04	Lab Sample ID: CS5-7604-217
Date Acquired: 6/24/2013	Client Sample ID:
Sample Description: CAL CS5-7604-217 - SMT	Instrument: 10MSHR09 (P)

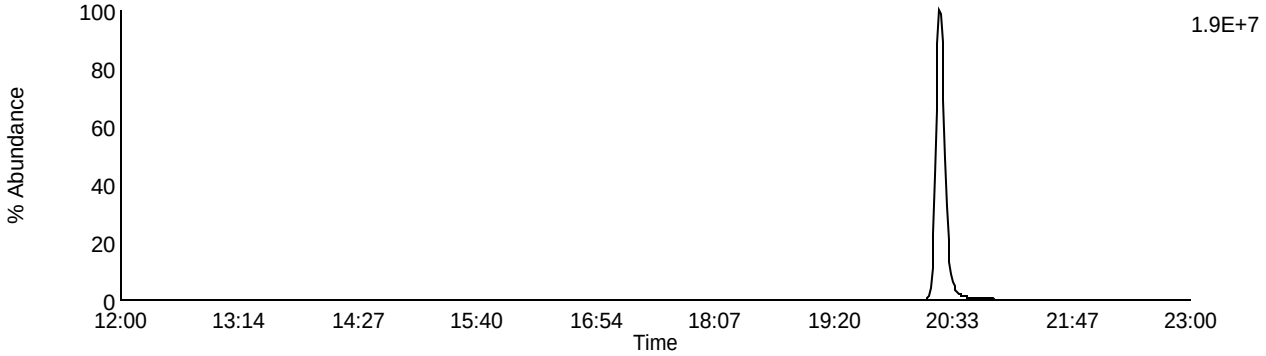
Data File: P130624B_04 G1 C12 - 339.8597
CAL CS5-7604-217 - SMT



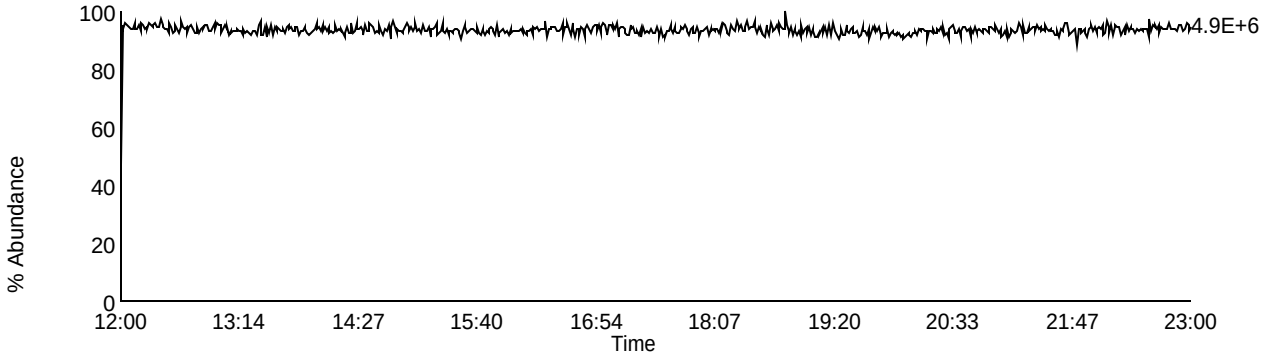
Data File: P130624B_04 G1 C13 - 341.8567
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G1 C9 - 327.8847
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G1 C5 - 318.9792
CAL CS5-7604-217 - SMT

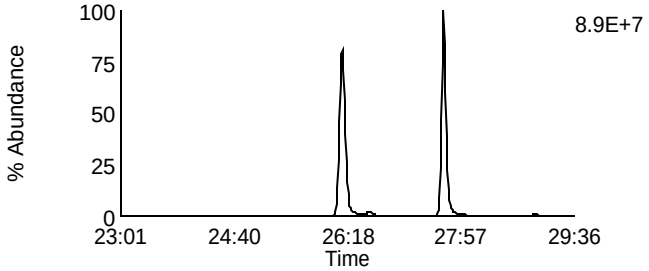


Homologue Group: Pentas

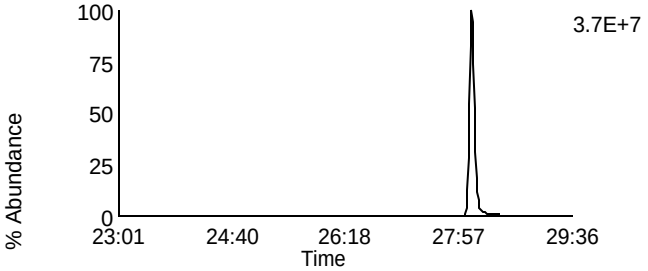
Data File Name: P130624B_04
Date Acquired: 6/24/2013
Sample Description: CAL CS5-7604-217 - SMT

Lab Sample ID: CS5-7604-217
Client Sample ID:
Instrument: 10MSHR09 (P)

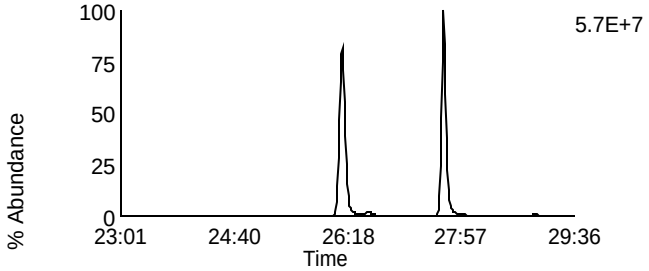
Data File: P130624B_04 G2 C1 - 339.8597
CAL CS5-7604-217 - SMT



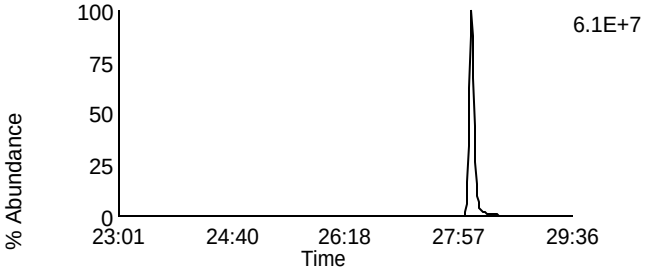
Data File: P130624B_04 G2 C4 - 353.8576
CAL CS5-7604-217 - SMT



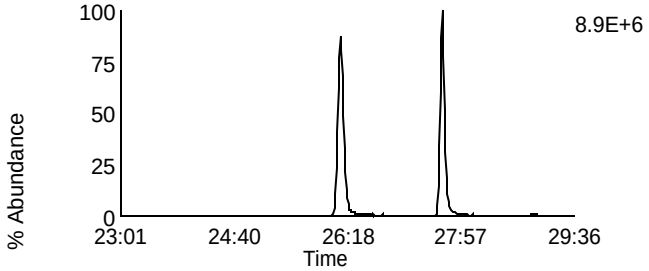
Data File: P130624B_04 G2 C2 - 341.8567
CAL CS5-7604-217 - SMT



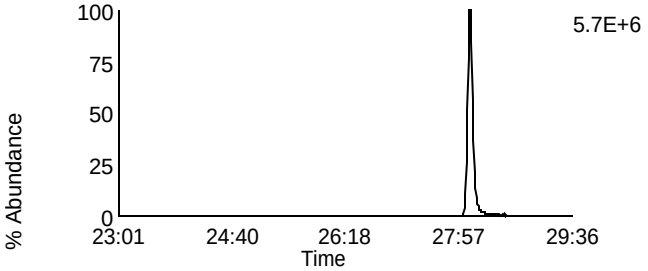
Data File: P130624B_04 G2 C8 - 355.8546
CAL CS5-7604-217 - SMT



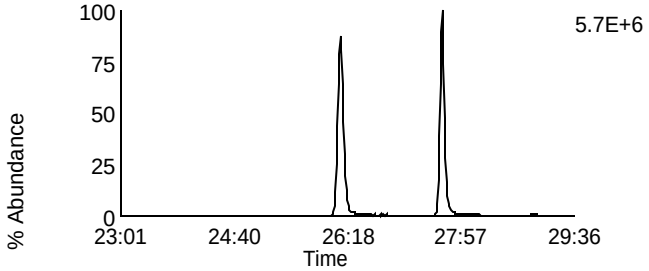
Data File: P130624B_04 G2 C3 - 351.8999
CAL CS5-7604-217 - SMT



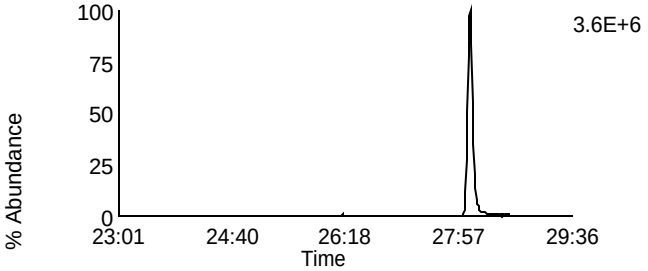
Data File: P130624B_04 G2 C10 - 367.8948
CAL CS5-7604-217 - SMT



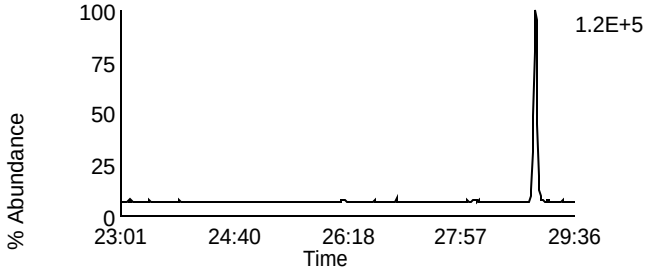
Data File: P130624B_04 G2 C5 - 353.8969
CAL CS5-7604-217 - SMT



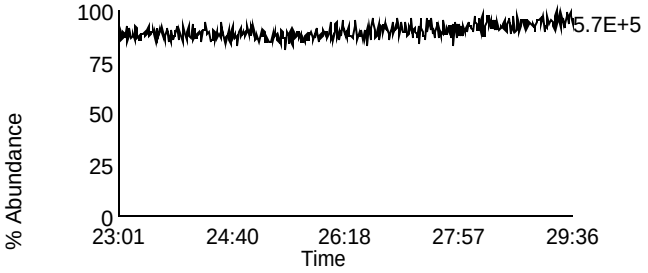
Data File: P130624B_04 G2 C11 - 369.8918
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G2 C12 - 409.7974
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G2 C6 - 354.9792
CAL CS5-7604-217 - SMT

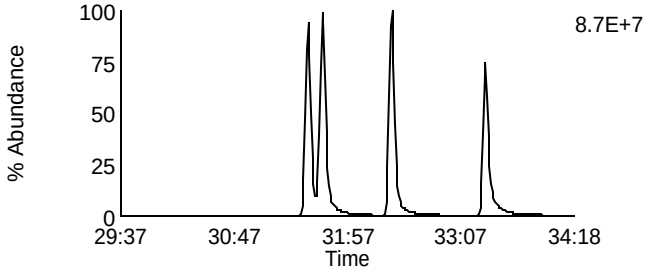


Homologue Group: Hexas

Data File Name: P130624B_04
Date Acquired: 6/24/2013
Sample Description: CAL CS5-7604-217 - SMT

Lab Sample ID: CS5-7604-217
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P130624B_04 G3 C1 - 373.8207
CAL CS5-7604-217 - SMT



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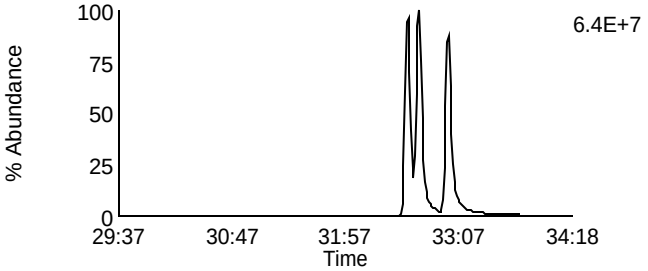
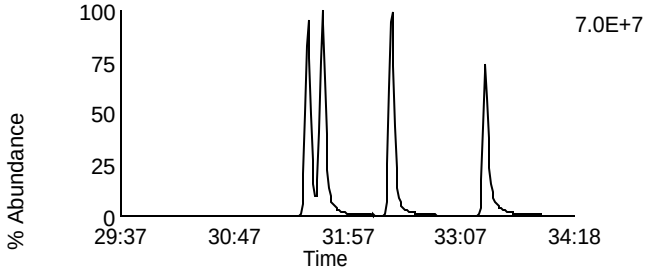
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G3 C2 - 375.8178
CAL CS5-7604-217 - SMT



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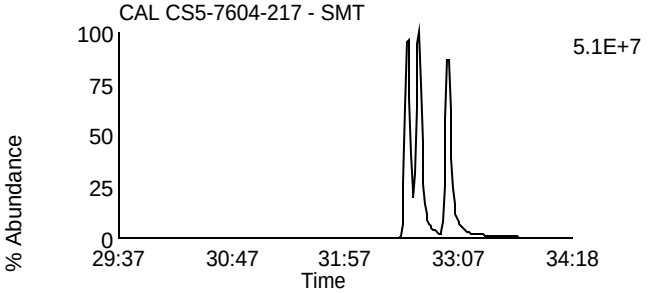
CAL CS5-7604-217 - SMT



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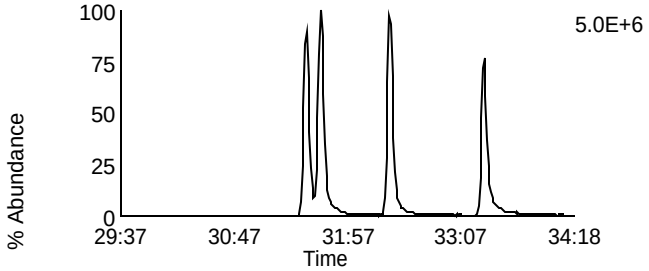
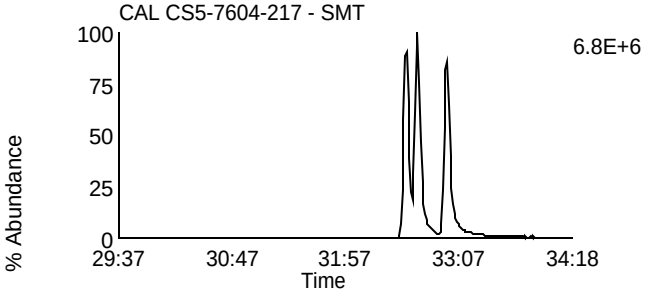
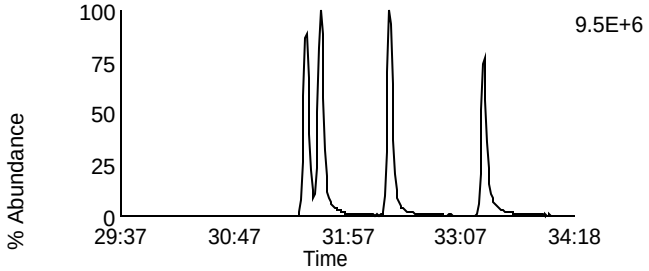
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G3 C9 - 401.8559
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G3 C6 - 385.861
CAL CS5-7604-217 - SMT



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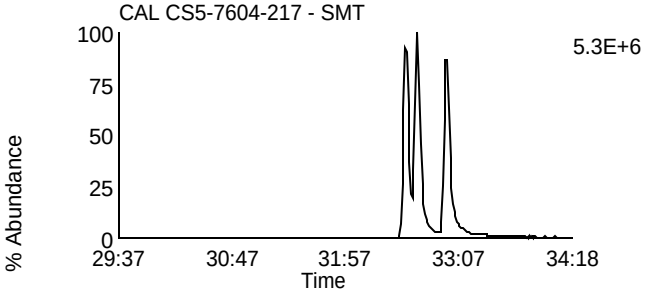
CAL CS5-7604-217 - SMT



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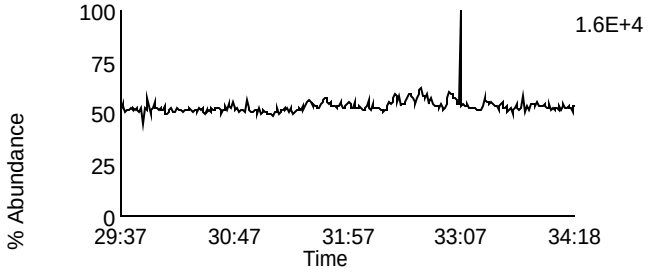
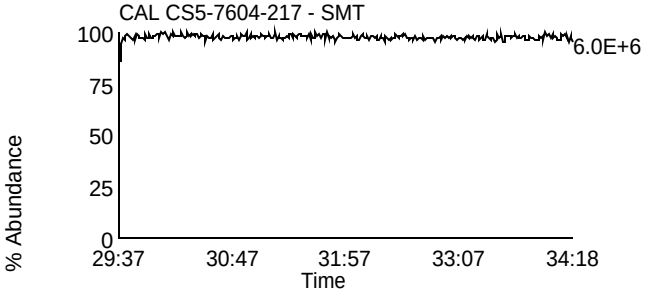
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G3 C3 - 380.976
CAL CS5-7604-217 - SMT

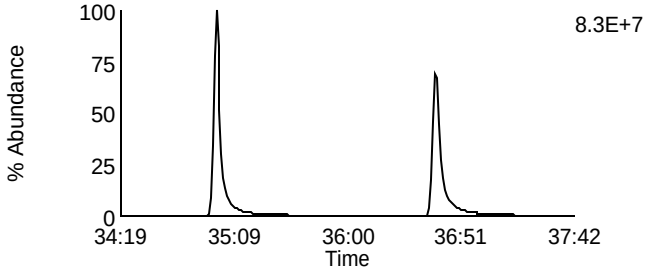


Homologue Group: Heptas

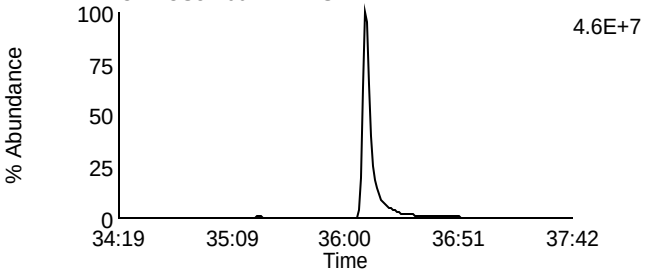
Data File Name: P130624B_04
Date Acquired: 6/24/2013
Sample Description: CAL CS5-7604-217 - SMT

Lab Sample ID: CS5-7604-217
Client Sample ID:
Instrument: 10MSHR09 (P)

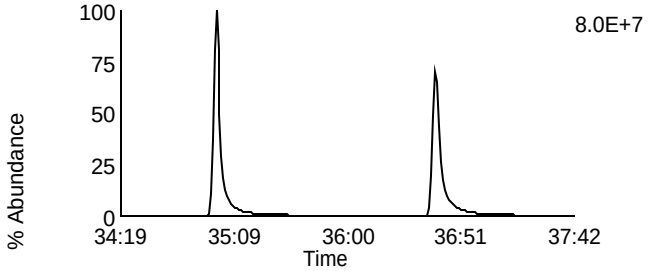
Data File: P130624B_04 G4 C3 - 407.7818
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G4 C8 - 423.7767
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G4 C4 - 409.7788
CAL CS5-7604-217 - SMT



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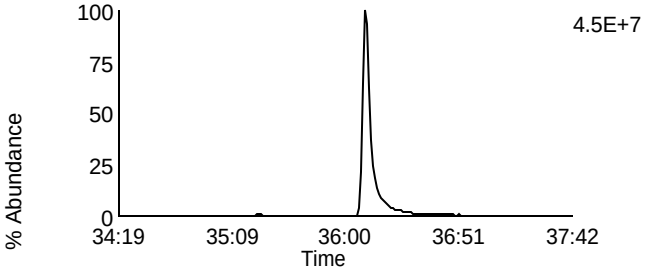
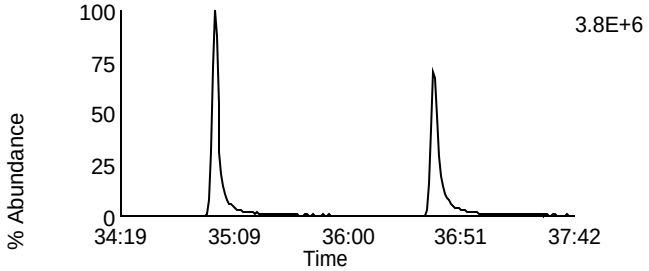
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G4 C6 - 417.825
CAL CS5-7604-217 - SMT



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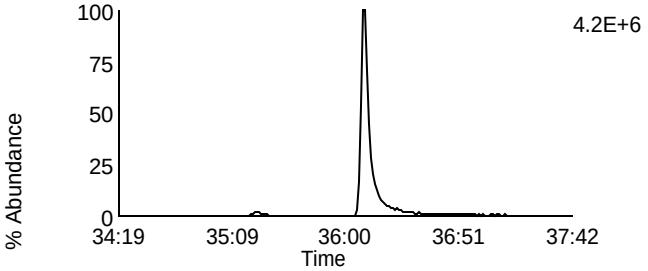
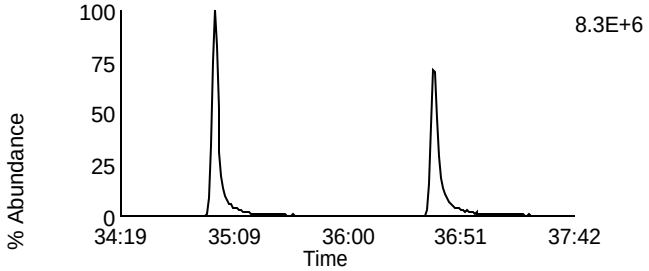
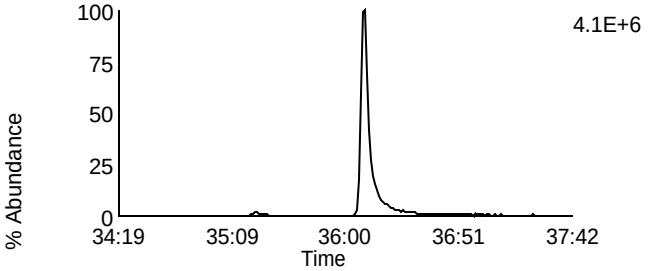
CAL CS5-7604-217 - SMT



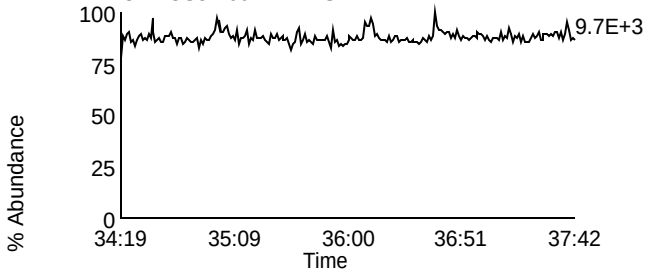
Data File: P130624B_04 G4 C7 - 419.822
CAL CS5-7604-217 - SMT



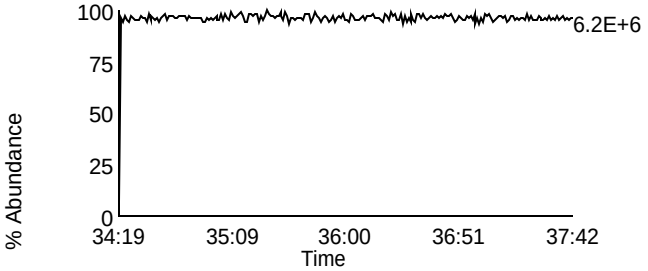
Data File: P130624B_04 G4 C12 - 437.814
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G4 C13 - 479.7165
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G4 C1 - 380.976
CAL CS5-7604-217 - SMT

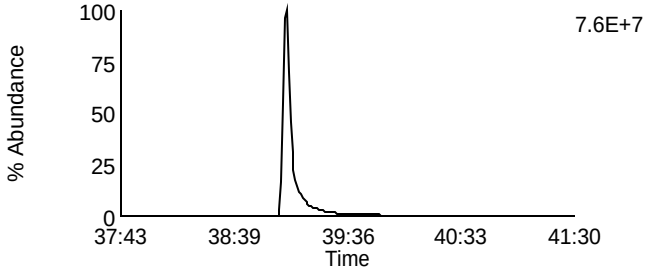


Homologue Group: Octas

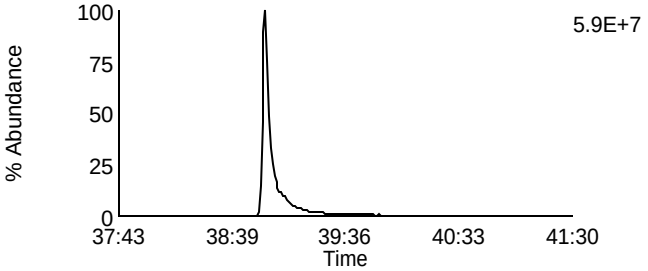
Data File Name: P130624B_04
Date Acquired: 6/24/2013
Sample Description: CAL CS5-7604-217 - SMT

Lab Sample ID: CS5-7604-217
Client Sample ID:
Instrument: 10MSHR09 (P)

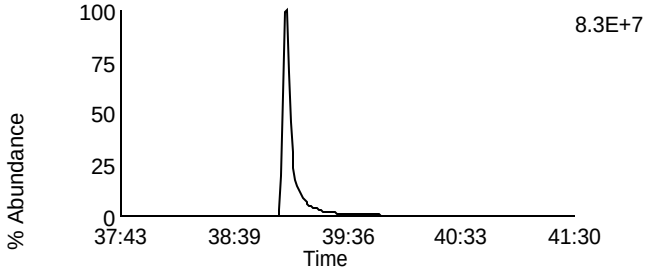
Data File: P130624B_04 G5 C4 - 441.7428
CAL CS5-7604-217 - SMT



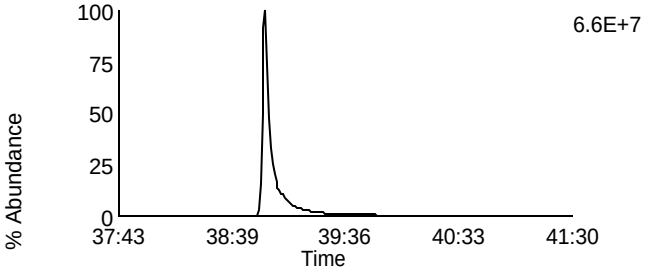
Data File: P130624B_04 G5 C8 - 457.7377
CAL CS5-7604-217 - SMT



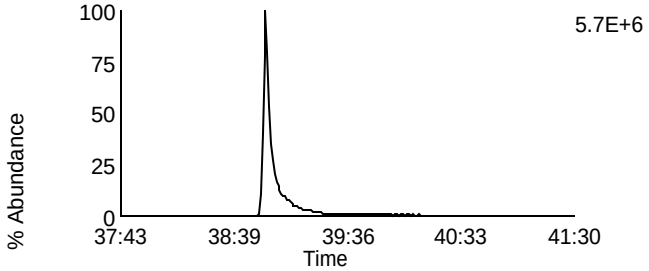
Data File: P130624B_04 G5 C5 - 443.7398
CAL CS5-7604-217 - SMT



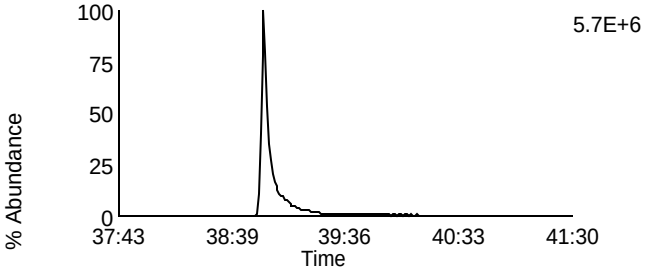
Data File: P130624B_04 G5 C9 - 459.7347
CAL CS5-7604-217 - SMT



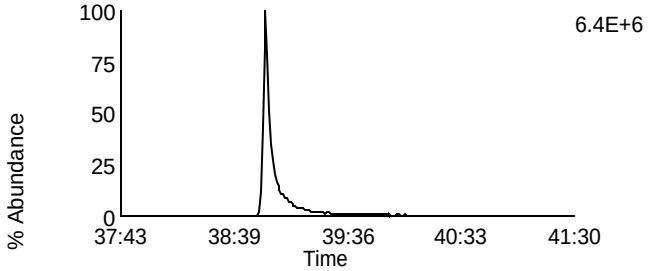
Data File: P130624B_04 G5 C11 - 469.7779
CAL CS5-7604-217 - SMT



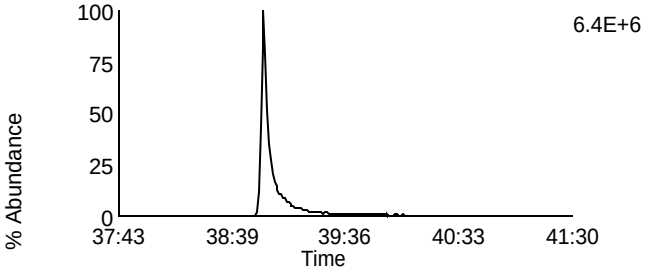
Data File: P130624B_04 G5 C11 - 469.7779
CAL CS5-7604-217 - SMT



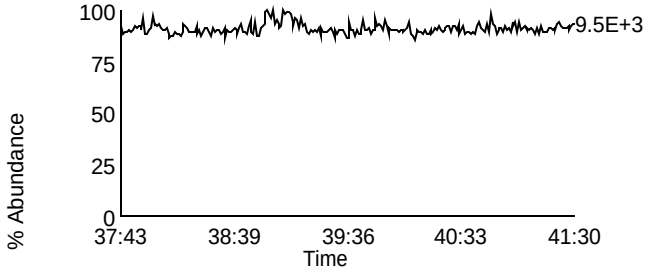
Data File: P130624B_04 G5 C12 - 471.7749
CAL CS5-7604-217 - SMT



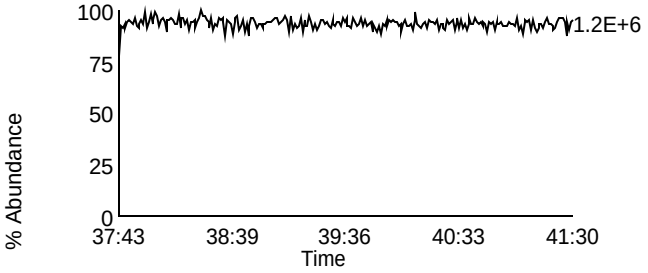
Data File: P130624B_04 G5 C12 - 471.7749
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G5 C13 - 513.6775
CAL CS5-7604-217 - SMT



Data File: P130624B_04 G5 C2 - 430.9728
CAL CS5-7604-217 - SMT

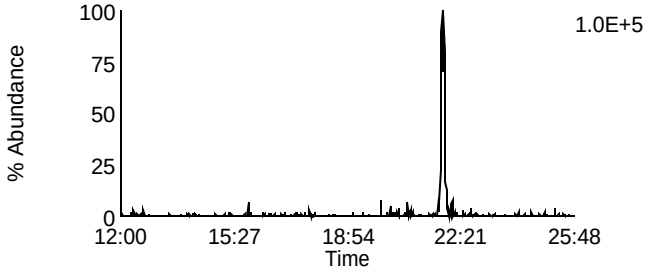


Homologue Group: Tetras

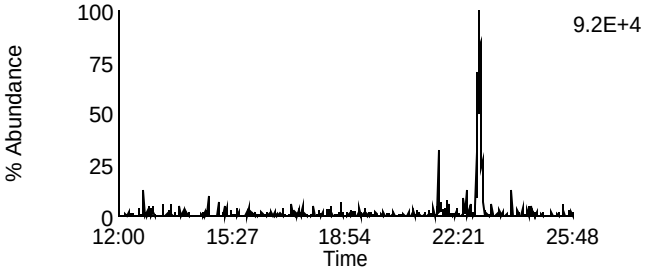
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

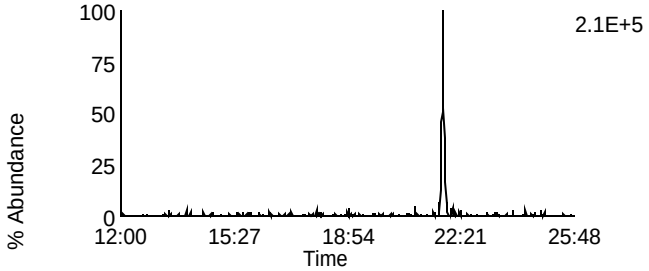
Data File: U140322B_06 G1 C1 - 303.9016
CAL CS1-7604-273 - BAL



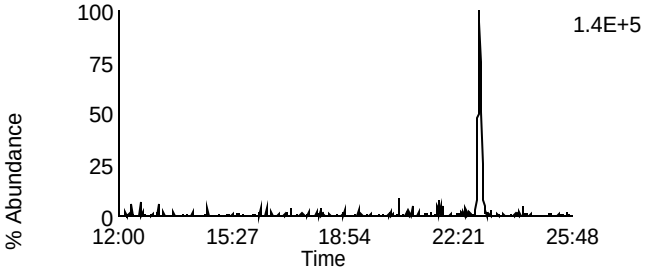
Data File: U140322B_06 G1 C7 - 319.8965
CAL CS1-7604-273 - BAL



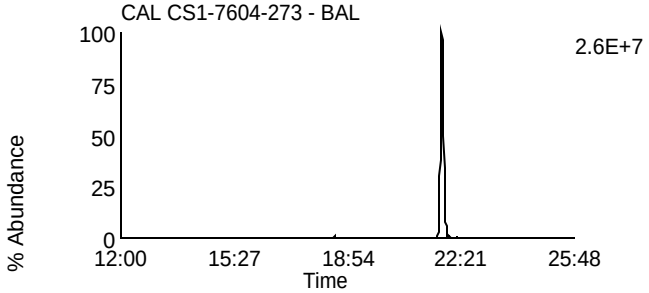
Data File: U140322B_06 G1 C2 - 305.8987
CAL CS1-7604-273 - BAL



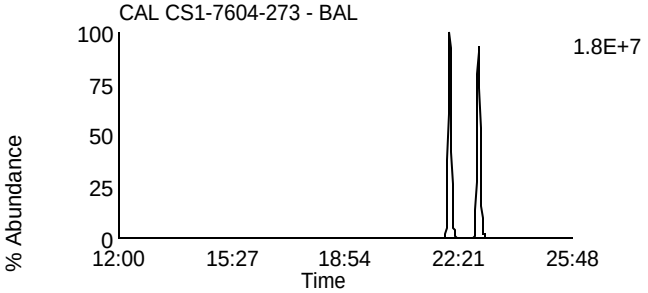
Data File: U140322B_06 G1 C8 - 321.8936
CAL CS1-7604-273 - BAL



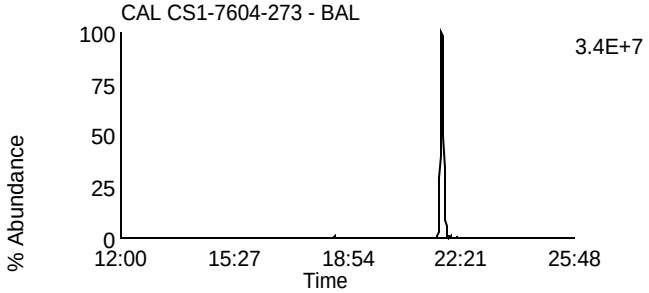
Data File: U140322B_06 G1 C3 - 315.9418
CAL CS1-7604-273 - BAL



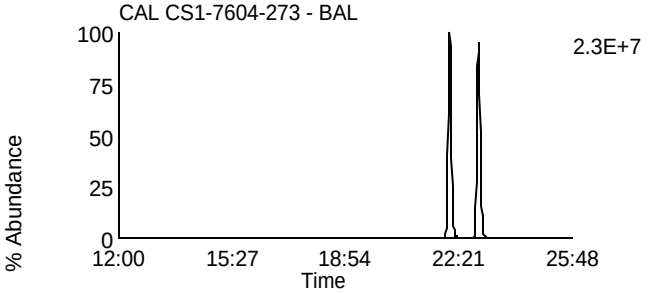
Data File: U140322B_06 G1 C10 - 331.9367
CAL CS1-7604-273 - BAL



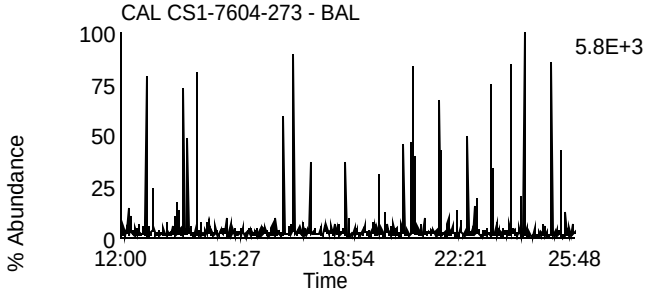
Data File: U140322B_06 G1 C4 - 317.9389
CAL CS1-7604-273 - BAL



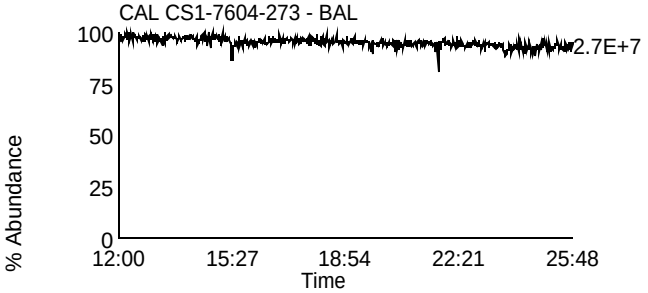
Data File: U140322B_06 G1 C11 - 333.9338
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C14 - 375.8364
CAL CS1-7604-273 - BAL



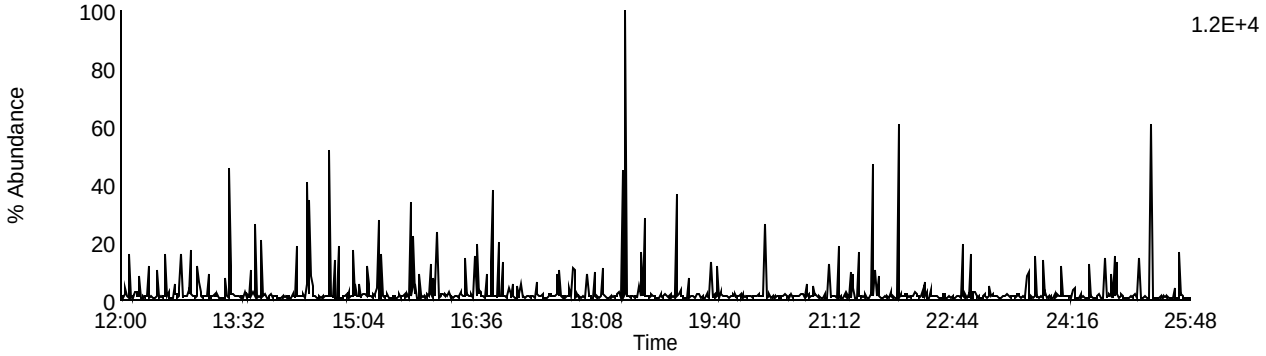
Data File: U140322B_06 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL



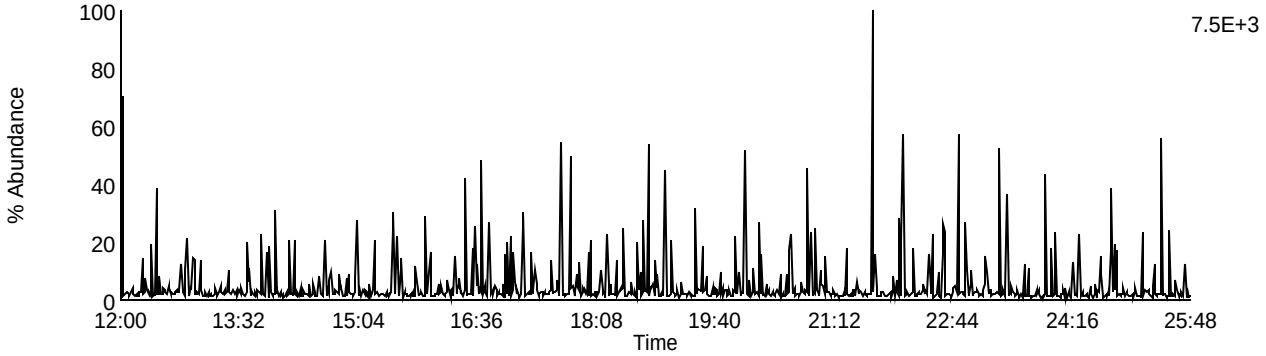
Homologue Group: Penta & Cleanup

Data File Name: U140322B_06	Lab Sample ID: CS1-7604-273
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS1-7604-273 - BAL	Instrument: 10MSHR06 (U)

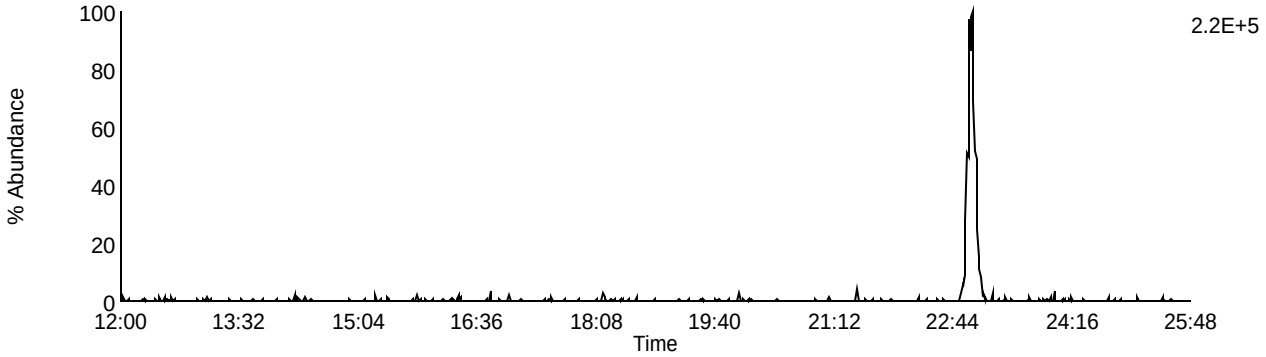
Data File: U140322B_06 G1 C12 - 339.8597
CAL CS1-7604-273 - BAL



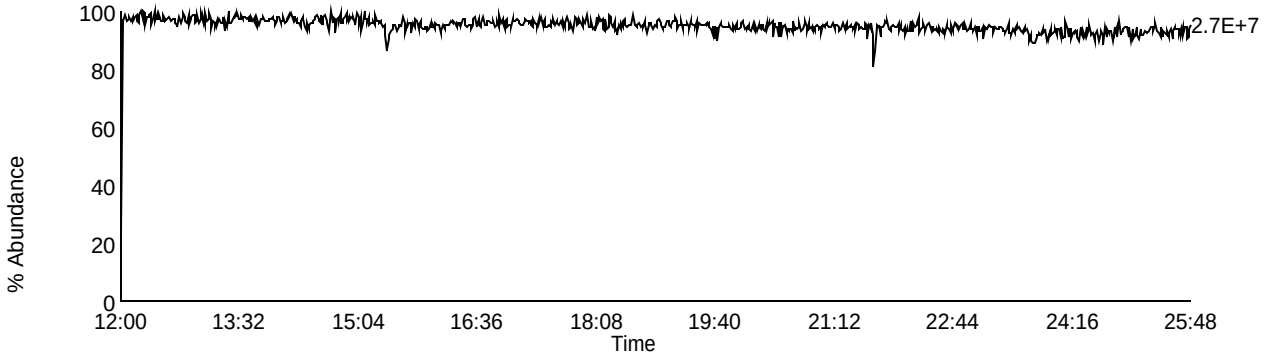
Data File: U140322B_06 G1 C13 - 341.8567
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C9 - 327.8847
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G1 C5 - 318.9792
CAL CS1-7604-273 - BAL

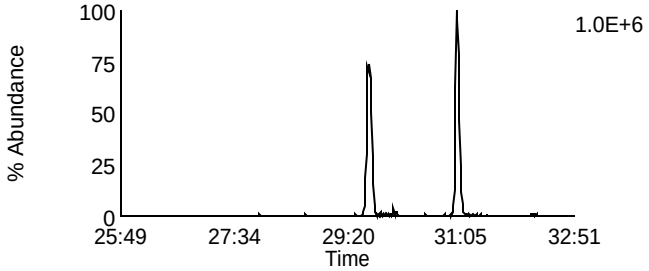


Homologue Group: Pentas

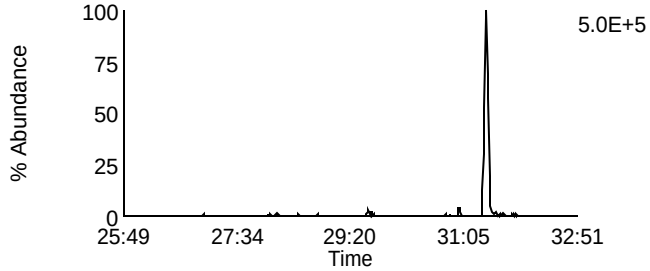
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

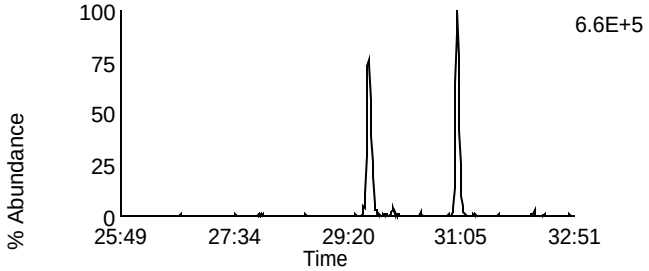
Data File: U140322B_06 G2 C1 - 339.8597
CAL CS1-7604-273 - BAL



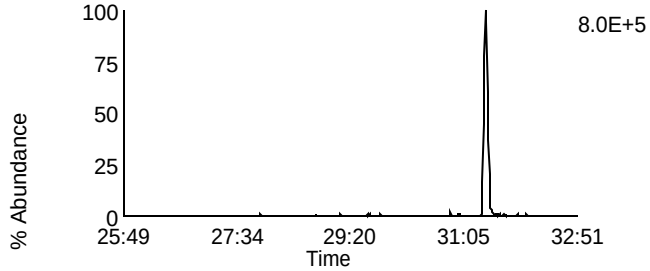
Data File: U140322B_06 G2 C4 - 353.8576
CAL CS1-7604-273 - BAL



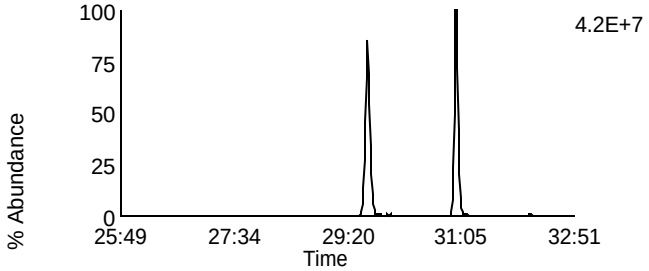
Data File: U140322B_06 G2 C2 - 341.8567
CAL CS1-7604-273 - BAL



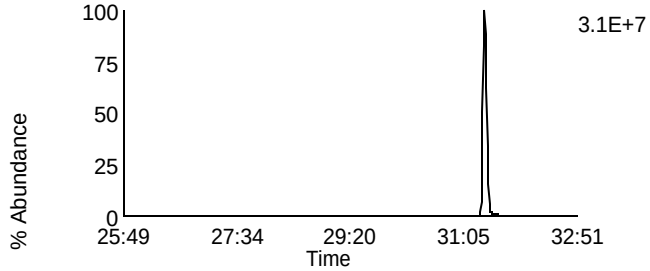
Data File: U140322B_06 G2 C8 - 355.8546
CAL CS1-7604-273 - BAL



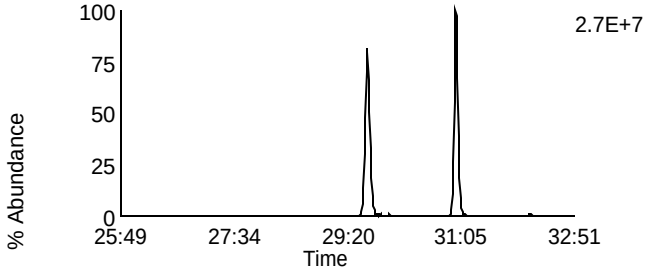
Data File: U140322B_06 G2 C3 - 351.8999
CAL CS1-7604-273 - BAL



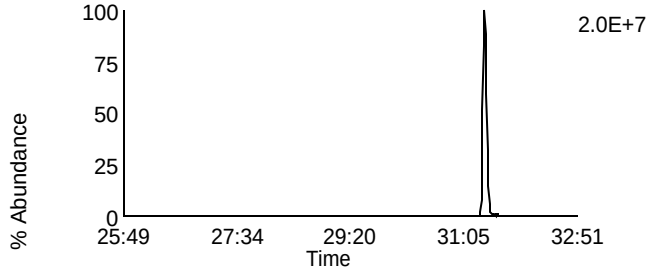
Data File: U140322B_06 G2 C10 - 367.8948
CAL CS1-7604-273 - BAL



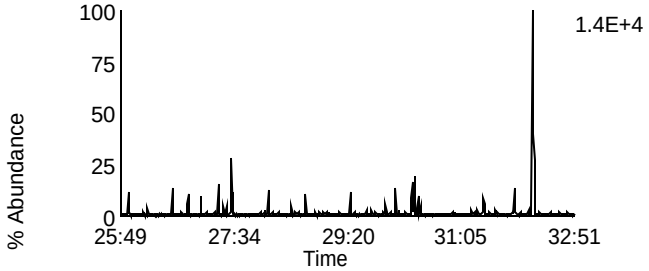
Data File: U140322B_06 G2 C5 - 353.8969
CAL CS1-7604-273 - BAL



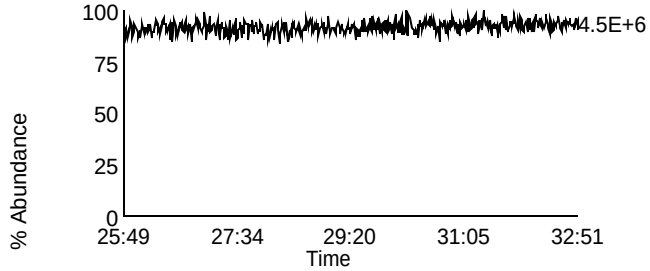
Data File: U140322B_06 G2 C11 - 369.8918
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G2 C12 - 409.7974
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G2 C6 - 354.9792
CAL CS1-7604-273 - BAL

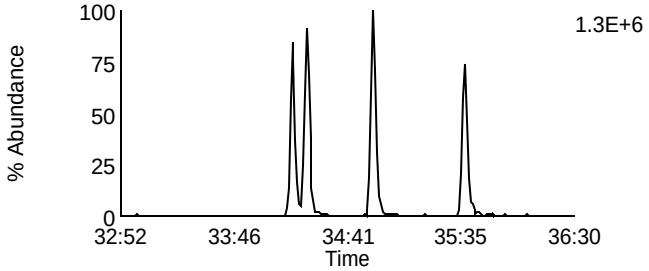


Homologue Group: Hexas

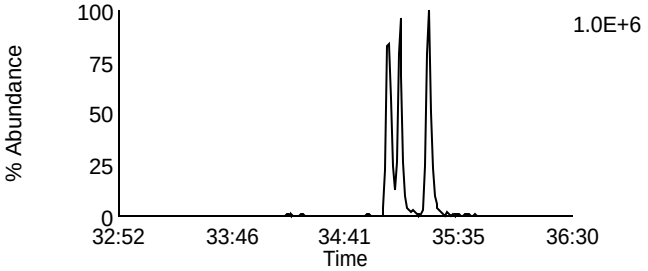
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

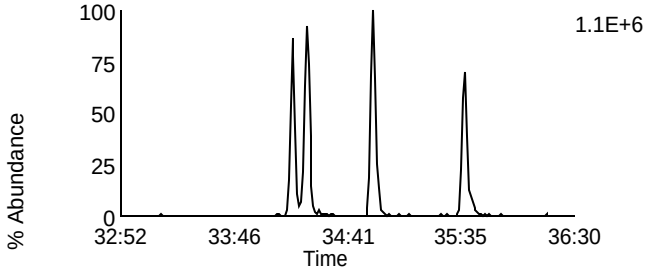
Data File: U140322B_06 G3 C1 - 373.8207
CAL CS1-7604-273 - BAL



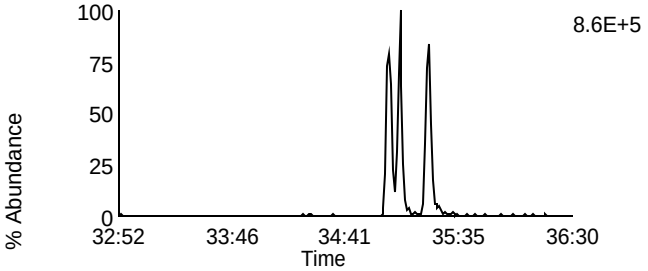
Data File: U140322B_06 G3 C7 - 389.8156
CAL CS1-7604-273 - BAL



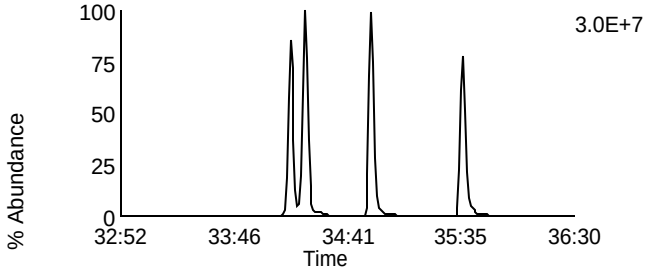
Data File: U140322B_06 G3 C2 - 375.8178
CAL CS1-7604-273 - BAL



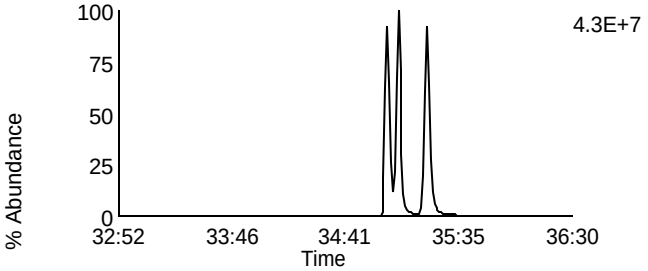
Data File: U140322B_06 G3 C8 - 391.8127
CAL CS1-7604-273 - BAL



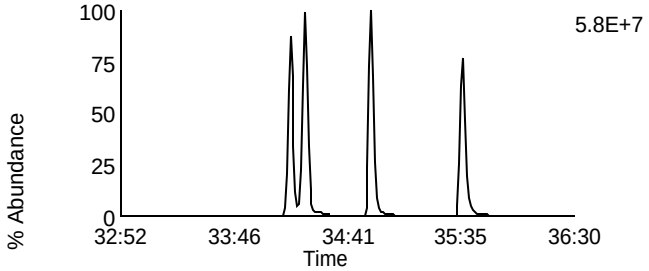
Data File: U140322B_06 G3 C5 - 383.8639
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C9 - 401.8559
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C6 - 385.861
CAL CS1-7604-273 - BAL



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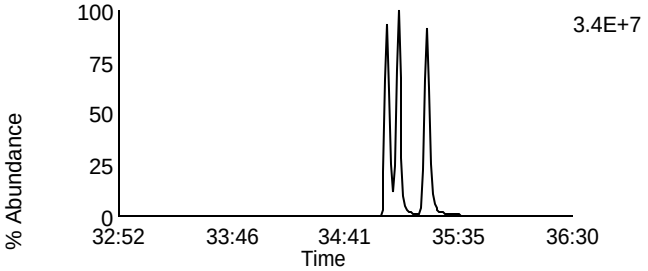
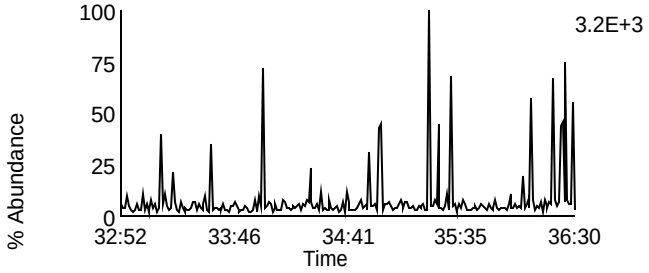
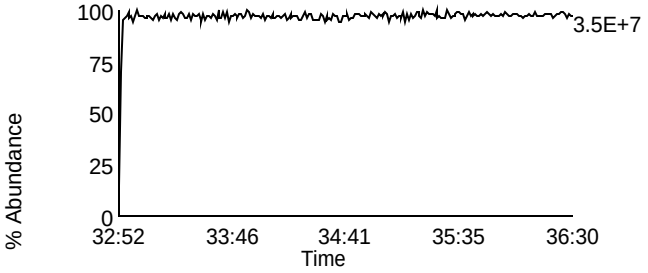
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C11 - 445.7555
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G3 C3 - 380.976
CAL CS1-7604-273 - BAL

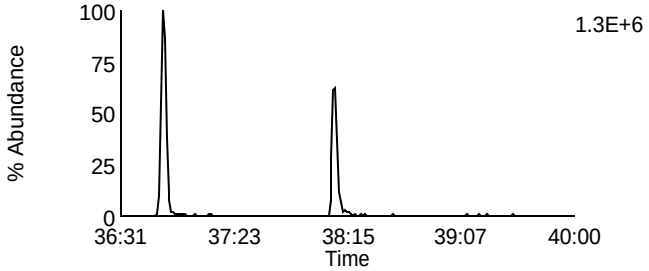


Homologue Group: Heptas

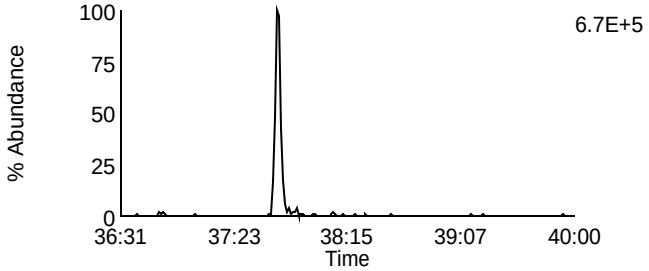
Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

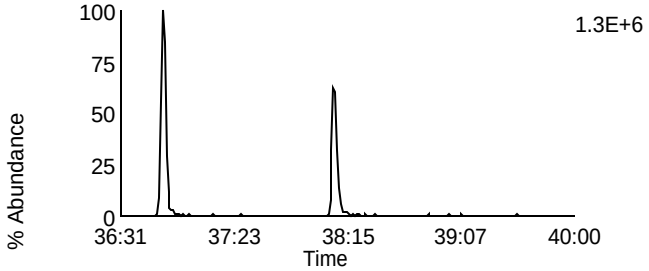
Data File: U140322B_06 G4 C3 - 407.7818
CAL CS1-7604-273 - BAL



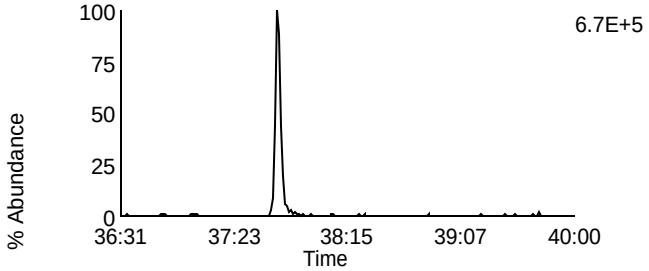
Data File: U140322B_06 G4 C8 - 423.7767
CAL CS1-7604-273 - BAL



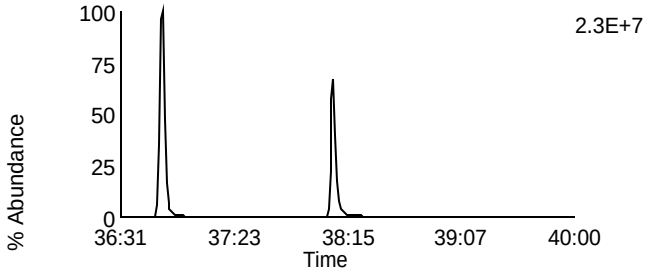
Data File: U140322B_06 G4 C4 - 409.7788
CAL CS1-7604-273 - BAL



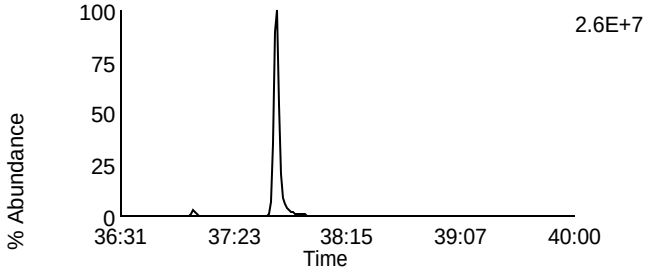
Data File: U140322B_06 G4 C9 - 425.7737
CAL CS1-7604-273 - BAL



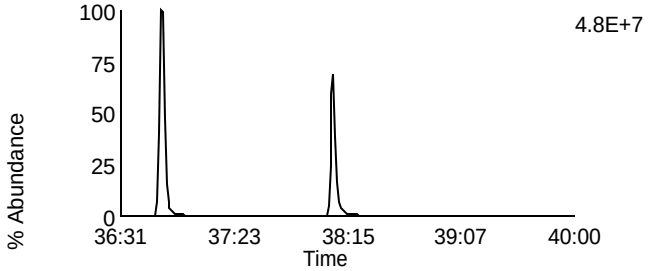
Data File: U140322B_06 G4 C6 - 417.825
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C11 - 435.8169
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C7 - 419.822
CAL CS1-7604-273 - BAL



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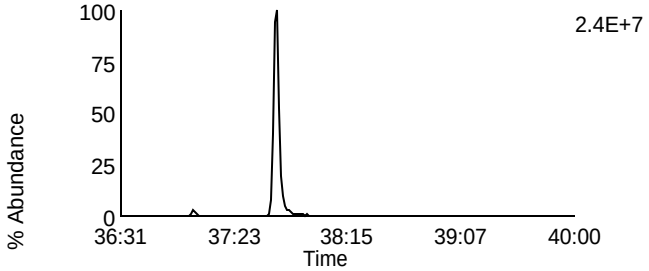
CAL CS1-7604-273 - BAL



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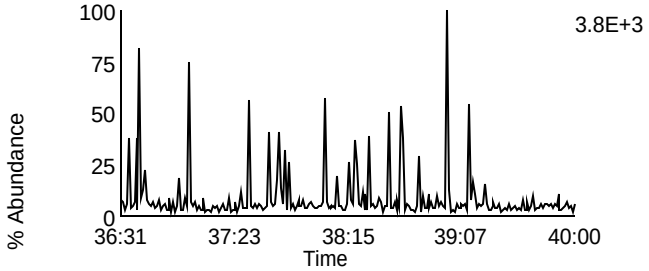
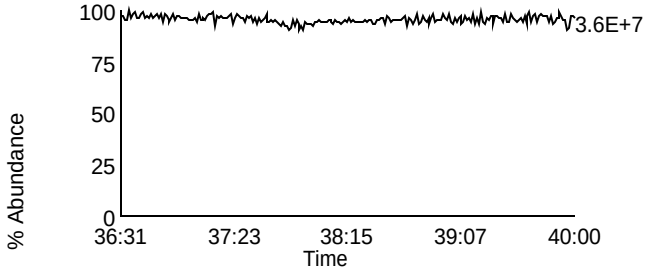
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G4 C1 - 380.976
CAL CS1-7604-273 - BAL

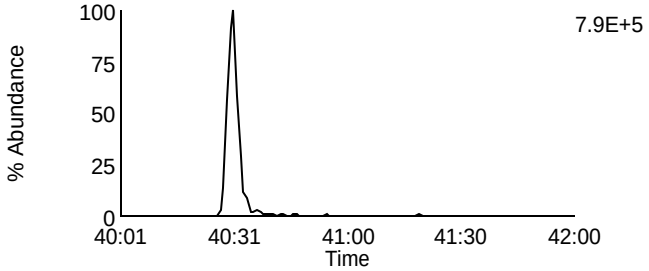


Homologue Group: Octas

Data File Name: U140322B_06
Date Acquired: 3/22/2014
Sample Description: CAL CS1-7604-273 - BAL

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_06 G5 C4 - 441.7428
CAL CS1-7604-273 - BAL



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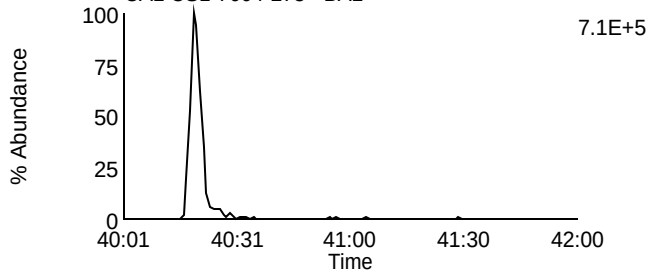
CAL CS1-7604-273 - BAL



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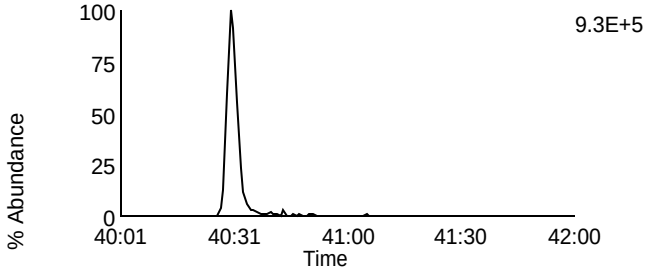
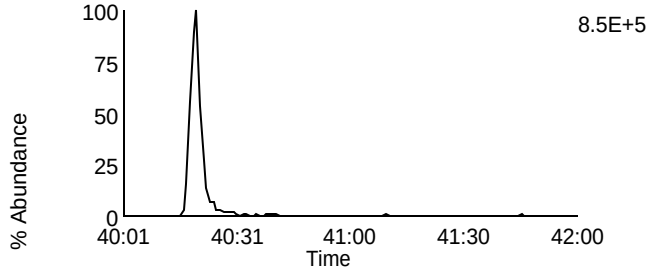
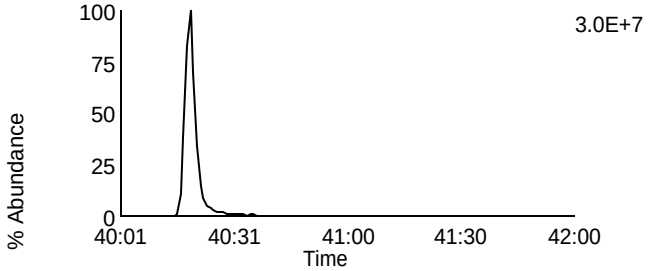
CAL CS1-7604-273 - BAL



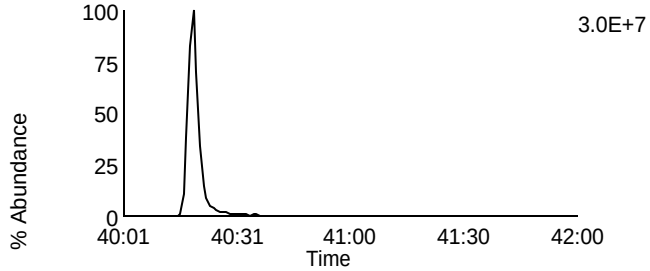
Data File: U140322B_06 G5 C9 - 459.7347
CAL CS1-7604-273 - BAL



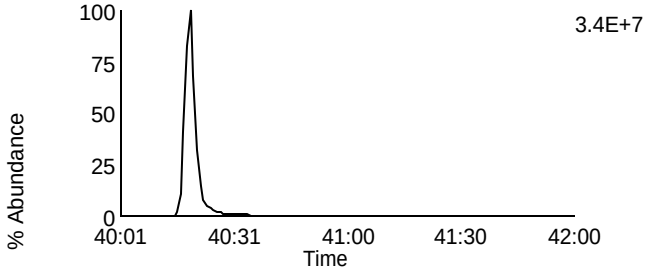
Data File: U140322B_06 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



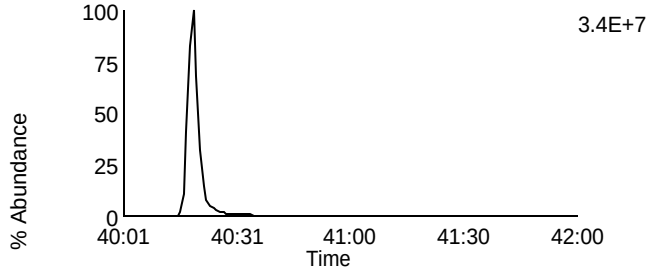
Data File: U140322B_06 G5 C11 - 469.7779
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G5 C12 - 471.7749
CAL CS1-7604-273 - BAL



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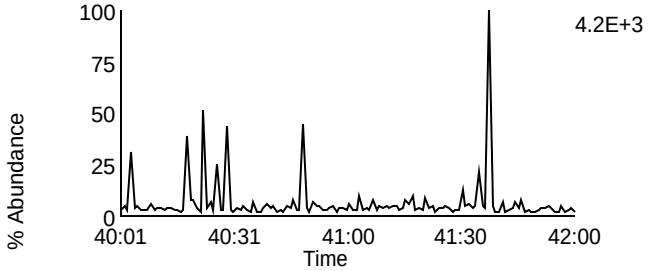
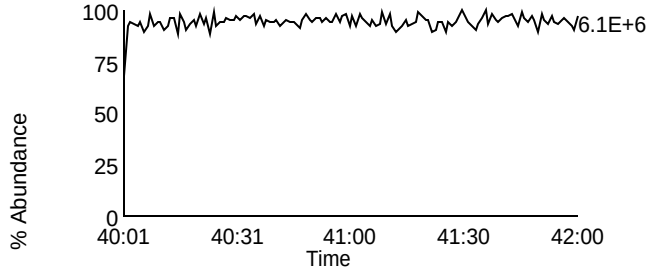
CAL CS1-7604-273 - BAL



Data File: U140322B_06 G5 C2 - 430.9728
CAL CS1-7604-273 - BAL

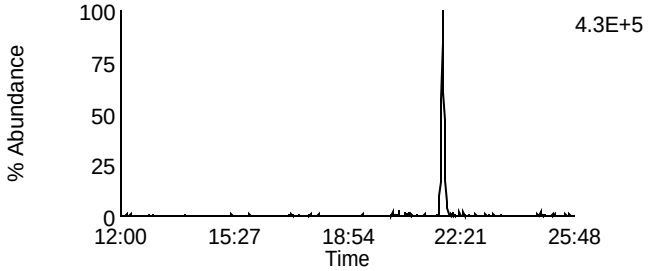


Homologue Group: Tetras

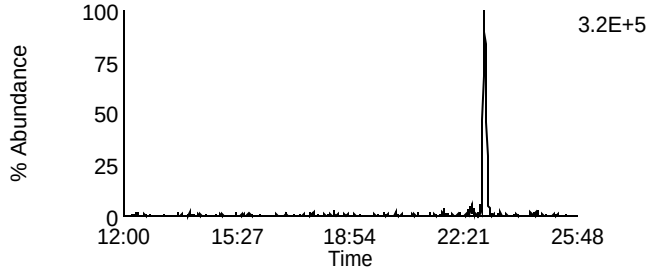
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

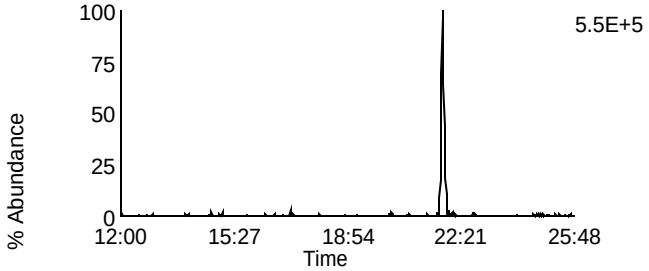
Data File: U140322B_05 G1 C1 - 303.9016
CAL CS2-7604-276 - BAL



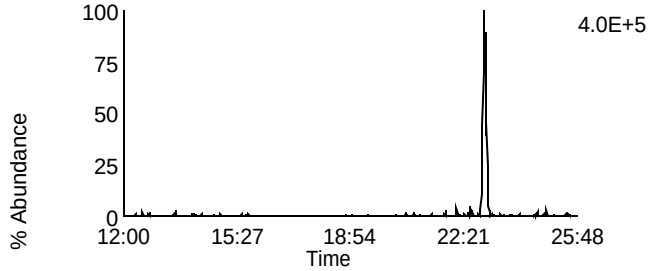
Data File: U140322B_05 G1 C7 - 319.8965
CAL CS2-7604-276 - BAL



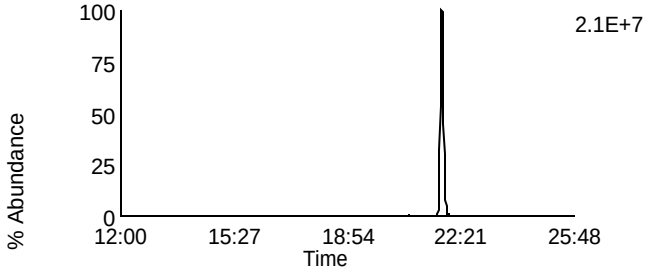
Data File: U140322B_05 G1 C2 - 305.8987
CAL CS2-7604-276 - BAL



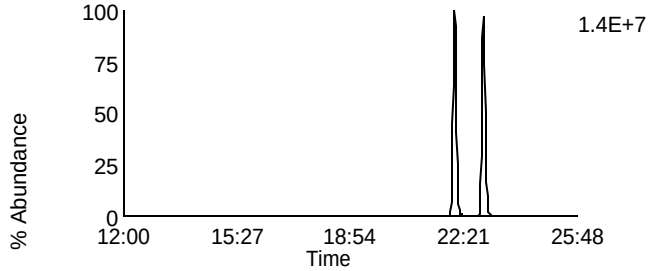
Data File: U140322B_05 G1 C8 - 321.8936
CAL CS2-7604-276 - BAL



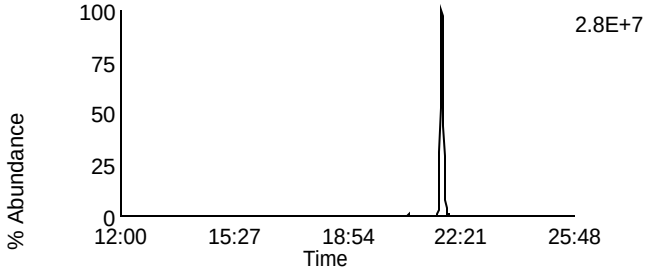
Data File: U140322B_05 G1 C3 - 315.9418
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C10 - 331.9367
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C4 - 317.9389
CAL CS2-7604-276 - BAL



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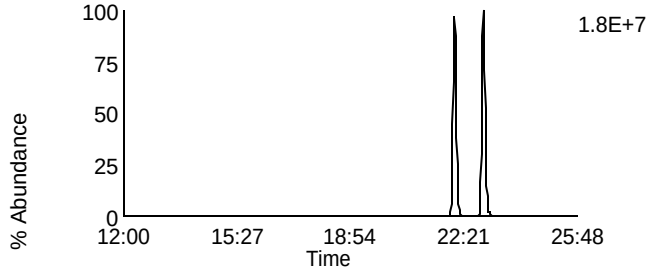
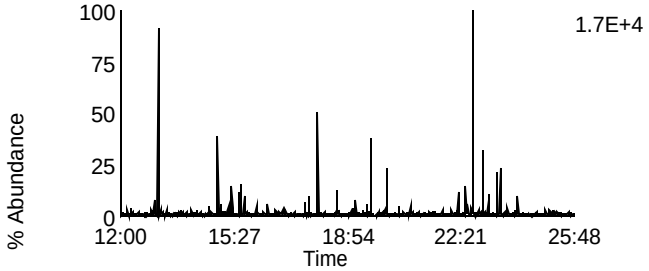
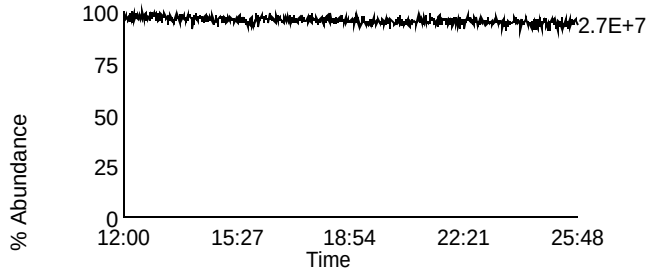
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C14 - 375.8364
CAL CS2-7604-276 - BAL



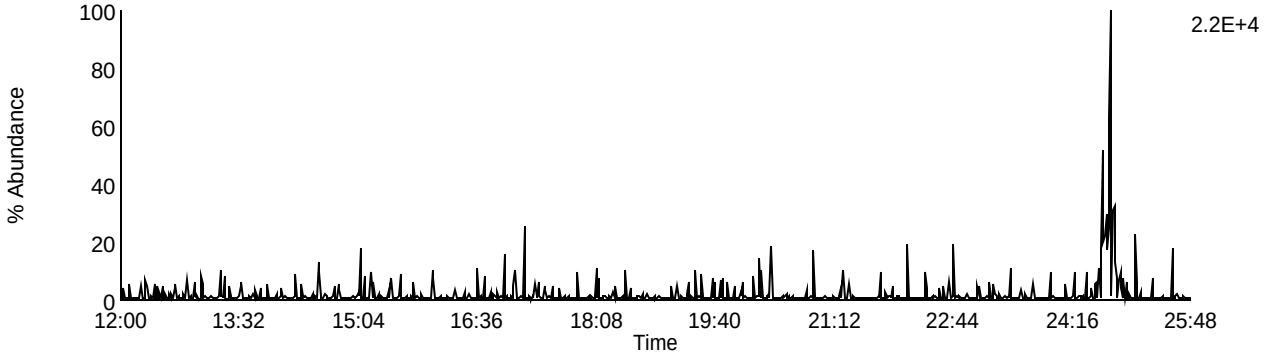
Data File: U140322B_05 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL



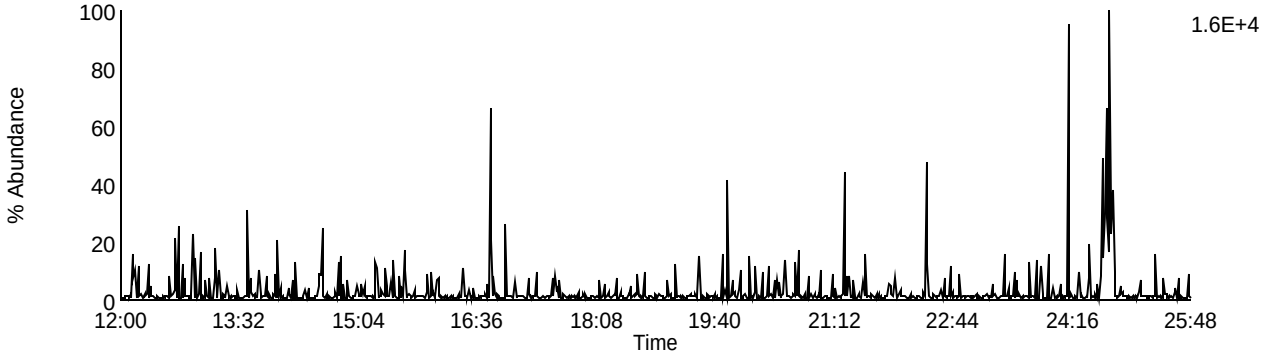
Homologue Group: Penta & Cleanup

Data File Name: U140322B_05	Lab Sample ID: CS2-7604-276
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS2-7604-276 - BAL	Instrument: 10MSHR06 (U)

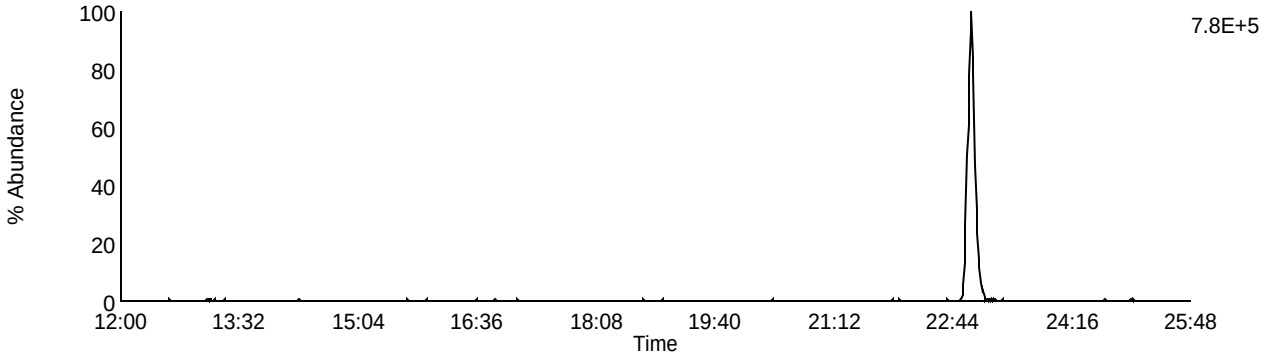
Data File: U140322B_05 G1 C12 - 339.8597
CAL CS2-7604-276 - BAL



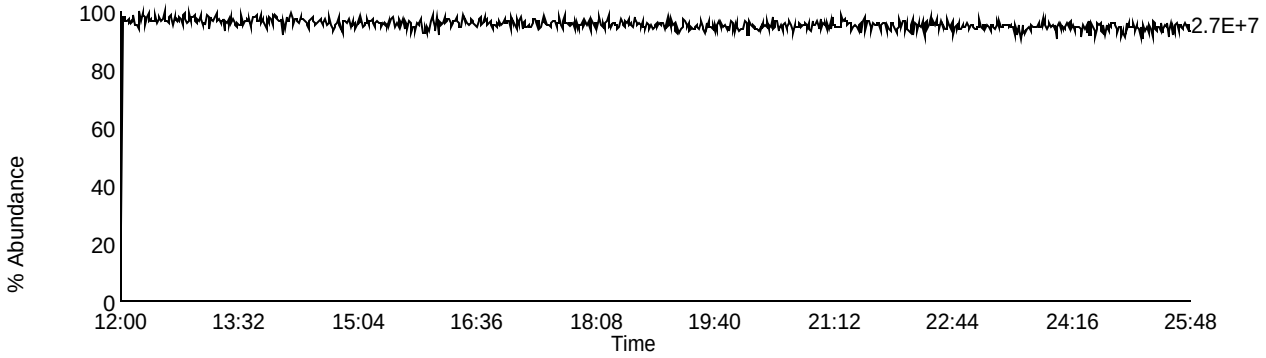
Data File: U140322B_05 G1 C13 - 341.8567
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C9 - 327.8847
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G1 C5 - 318.9792
CAL CS2-7604-276 - BAL

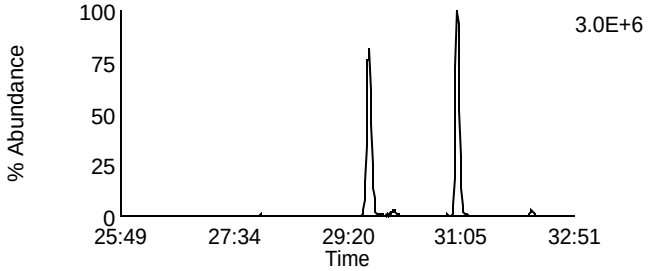


Homologue Group: Pentas

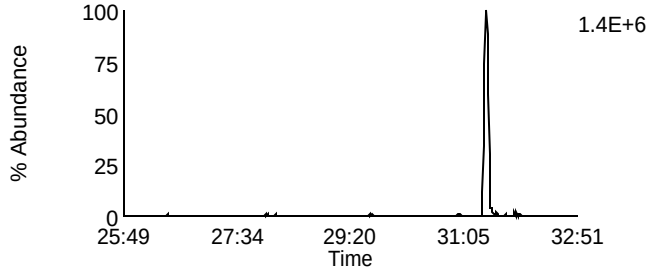
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

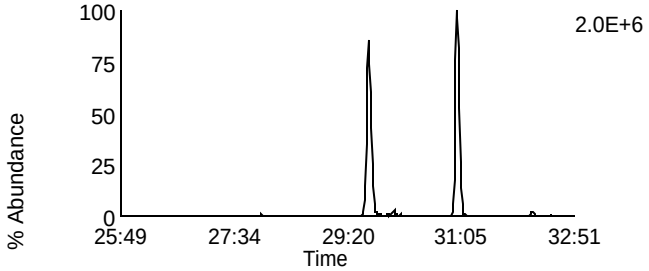
Data File: U140322B_05 G2 C1 - 339.8597
CAL CS2-7604-276 - BAL



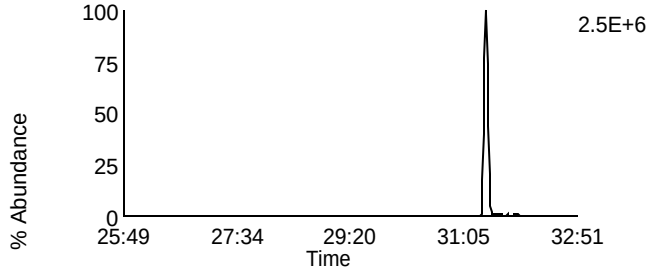
Data File: U140322B_05 G2 C4 - 353.8576
CAL CS2-7604-276 - BAL



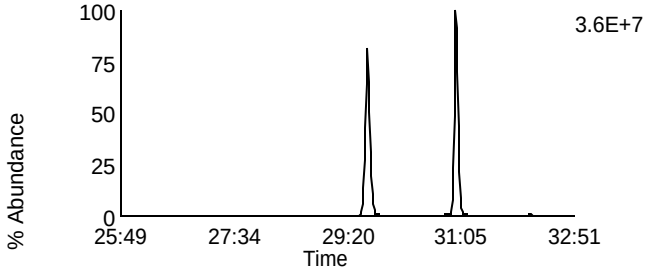
Data File: U140322B_05 G2 C2 - 341.8567
CAL CS2-7604-276 - BAL



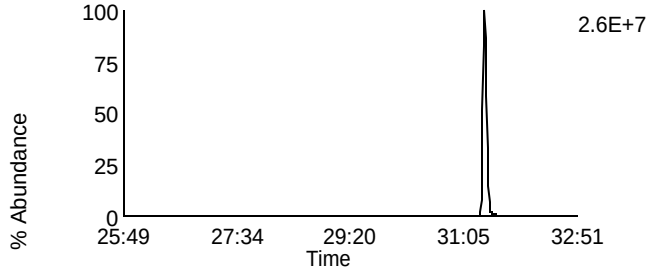
Data File: U140322B_05 G2 C8 - 355.8546
CAL CS2-7604-276 - BAL



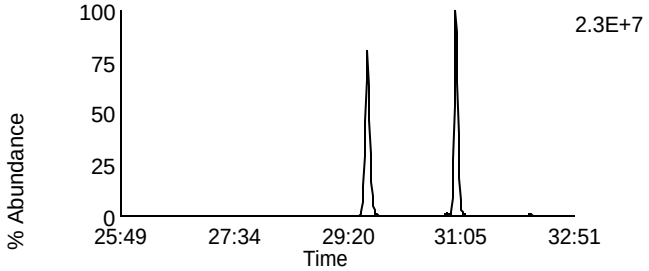
Data File: U140322B_05 G2 C3 - 351.8999
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C10 - 367.8948
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C5 - 353.8969
CAL CS2-7604-276 - BAL



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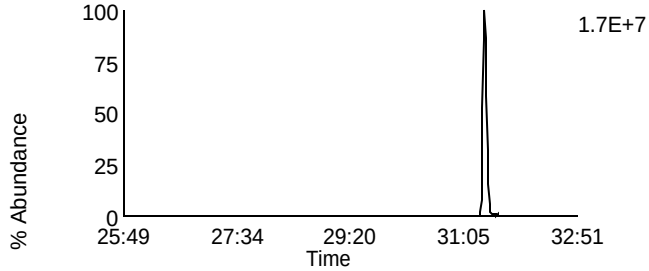
CAL CS2-7604-276 - BAL



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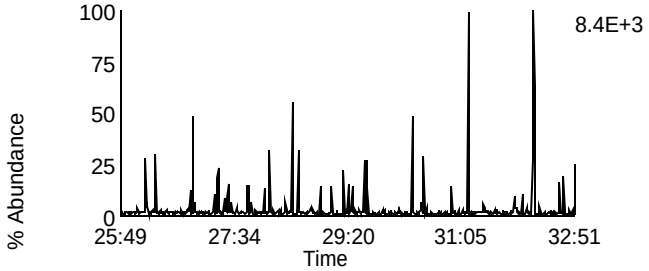
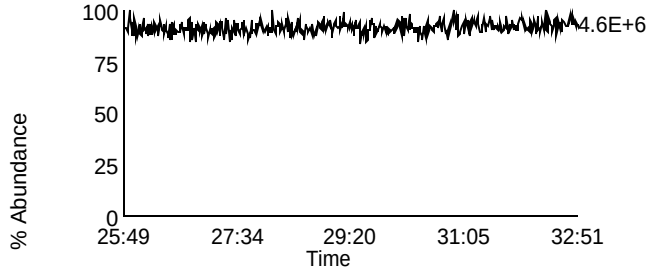
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G2 C6 - 354.9792
CAL CS2-7604-276 - BAL

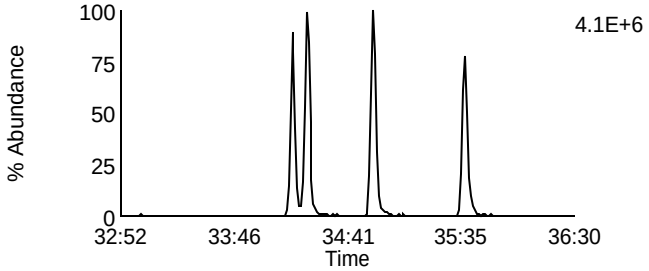


Homologue Group: Hexas

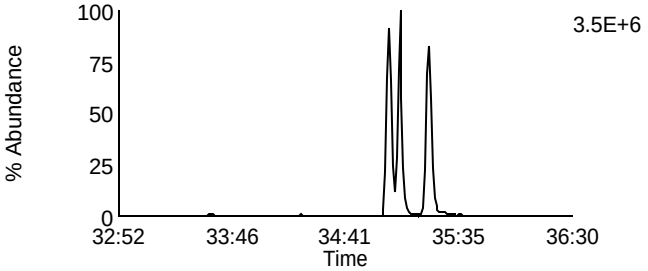
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

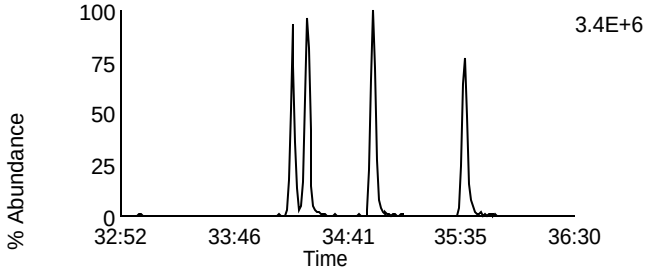
Data File: U140322B_05 G3 C1 - 373.8207
CAL CS2-7604-276 - BAL



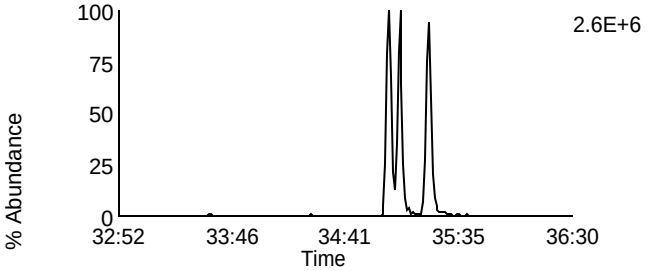
Data File: U140322B_05 G3 C7 - 389.8156
CAL CS2-7604-276 - BAL



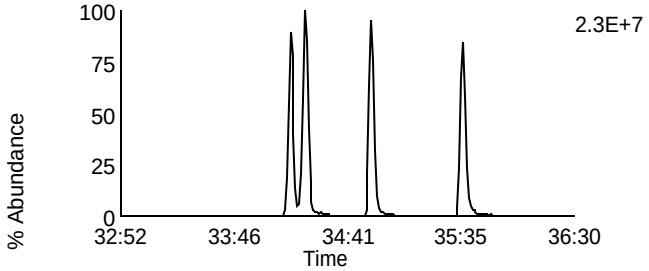
Data File: U140322B_05 G3 C2 - 375.8178
CAL CS2-7604-276 - BAL



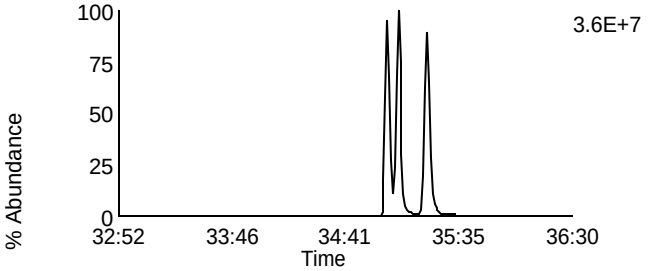
Data File: U140322B_05 G3 C8 - 391.8127
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C5 - 383.8639
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C9 - 401.8559
CAL CS2-7604-276 - BAL



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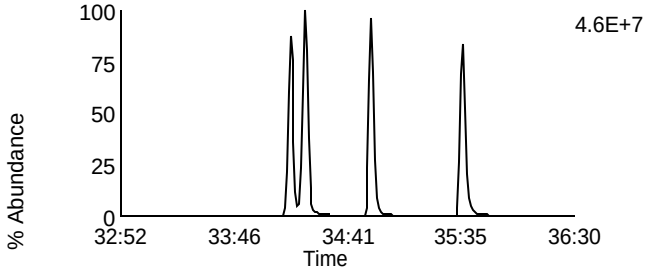
CAL CS2-7604-276 - BAL



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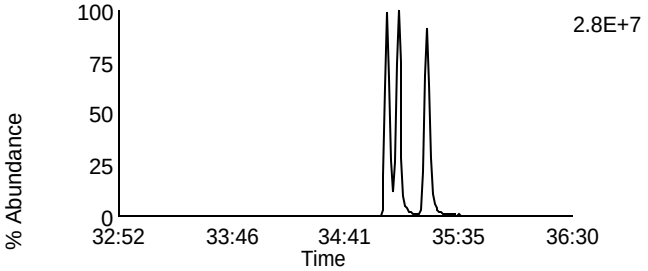
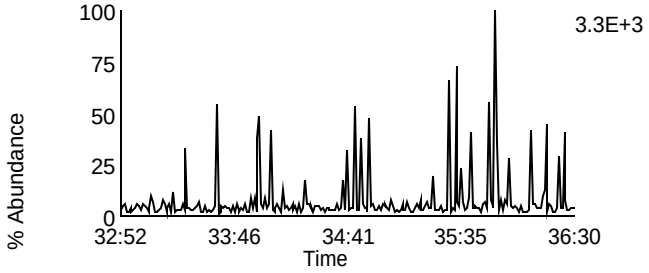
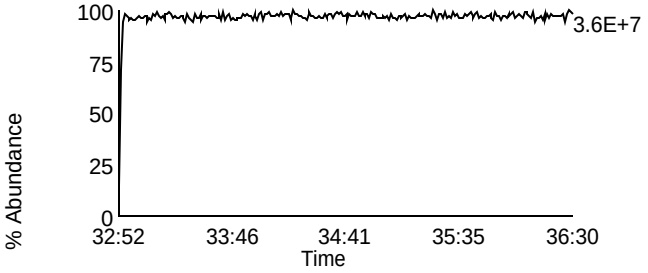
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C11 - 445.7555
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G3 C3 - 380.976
CAL CS2-7604-276 - BAL

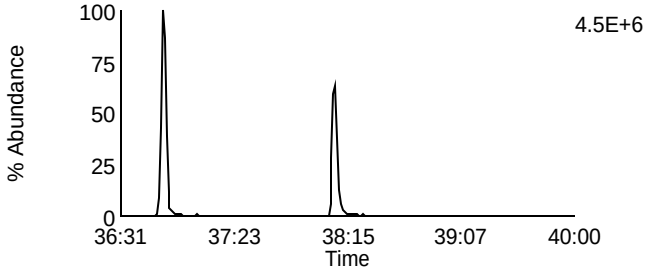


Homologue Group: Heptas

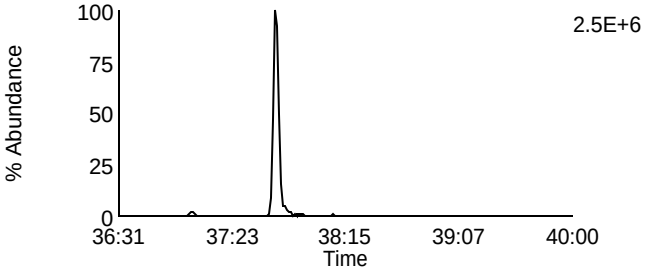
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

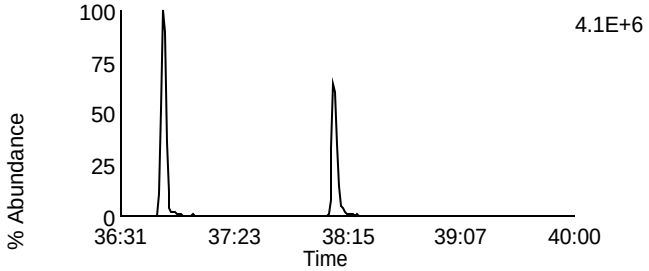
Data File: U140322B_05 G4 C3 - 407.7818
CAL CS2-7604-276 - BAL



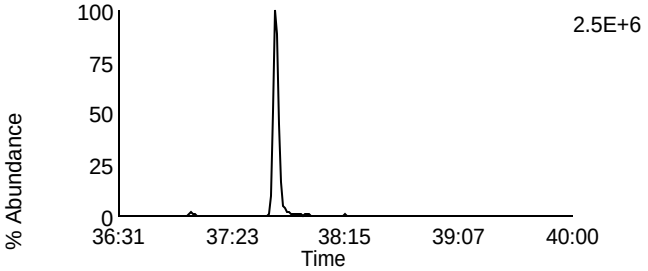
Data File: U140322B_05 G4 C8 - 423.7767
CAL CS2-7604-276 - BAL



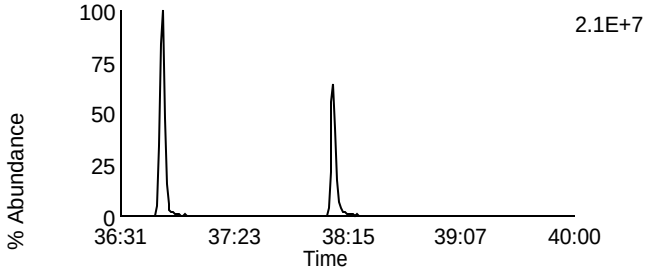
Data File: U140322B_05 G4 C4 - 409.7788
CAL CS2-7604-276 - BAL



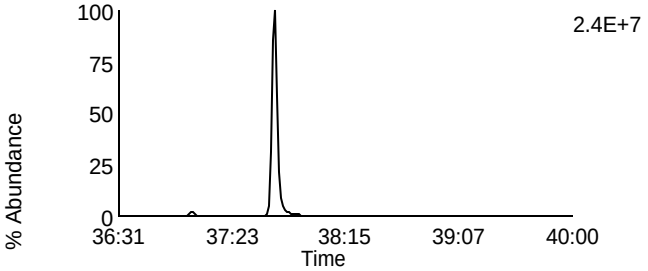
Data File: U140322B_05 G4 C9 - 425.7737
CAL CS2-7604-276 - BAL



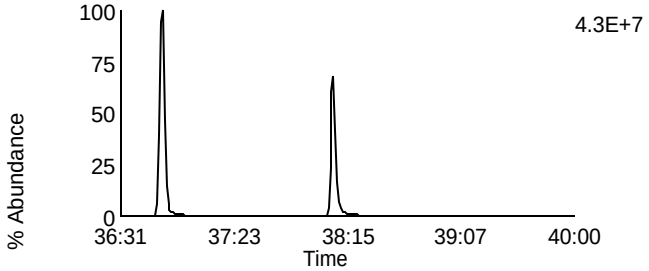
Data File: U140322B_05 G4 C6 - 417.825
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G4 C11 - 435.8169
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G4 C7 - 419.822
CAL CS2-7604-276 - BAL



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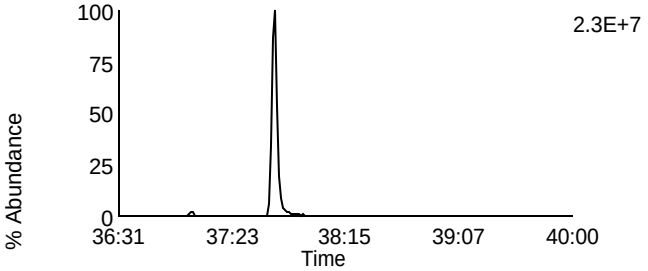
CAL CS2-7604-276 - BAL



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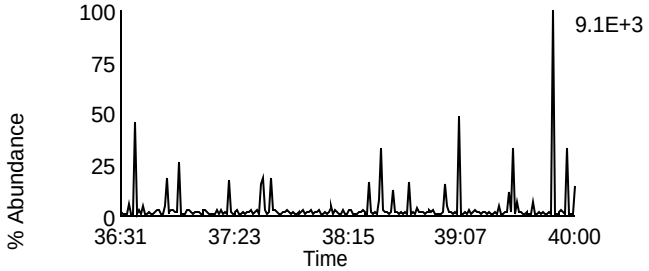
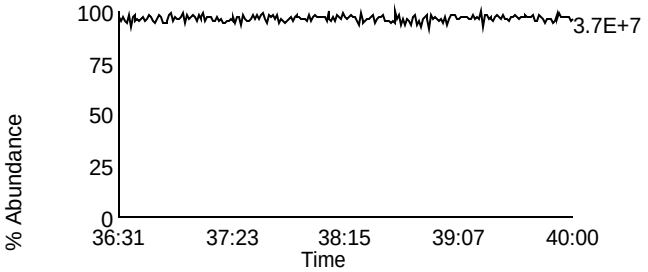
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G4 C1 - 380.976
CAL CS2-7604-276 - BAL

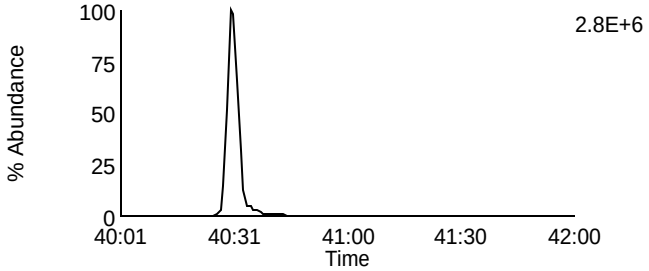


Homologue Group: Octas

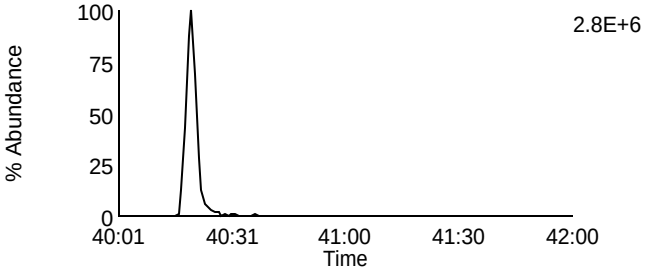
Data File Name: U140322B_05
Date Acquired: 3/22/2014
Sample Description: CAL CS2-7604-276 - BAL

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_05 G5 C4 - 441.7428
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C8 - 457.7377
CAL CS2-7604-276 - BAL



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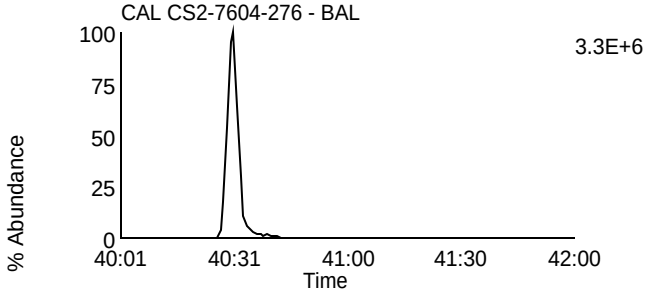
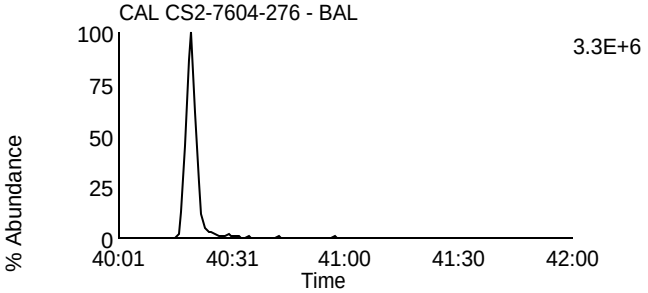
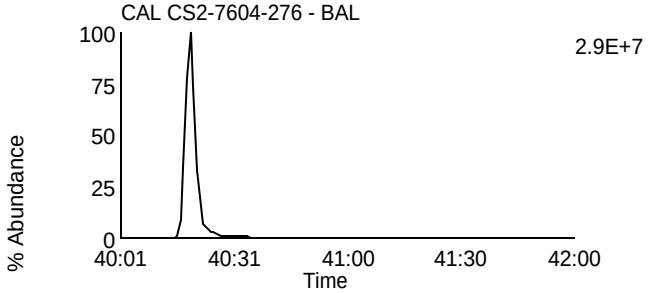
CAL CS2-7604-276 - BAL



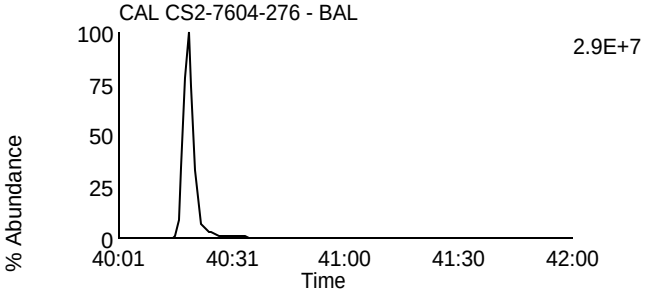
Data File: U140322B_05 G5 C9 - 459.7347
CAL CS2-7604-276 - BAL



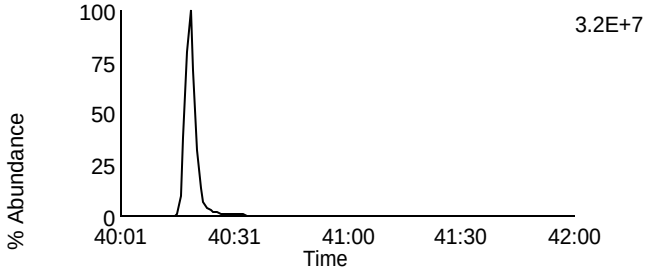
Data File: U140322B_05 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C11 - 469.7779
CAL CS2-7604-276 - BAL



Data File: U140322B_05 G5 C12 - 471.7749
CAL CS2-7604-276 - BAL



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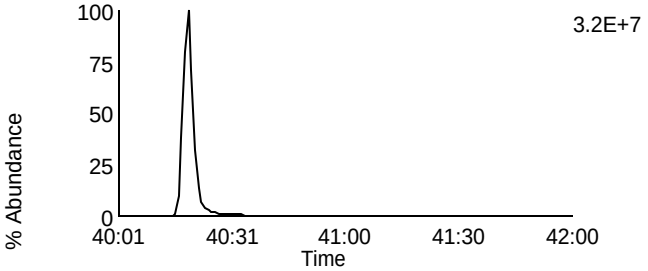
CAL CS2-7604-276 - BAL



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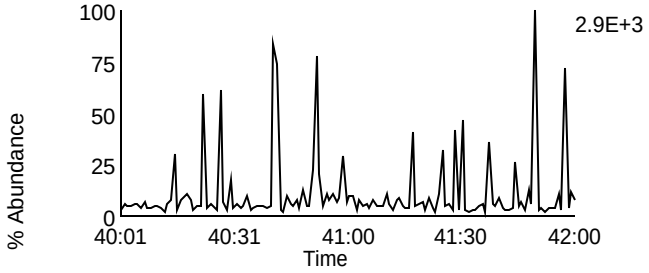
CAL CS2-7604-276 - BAL



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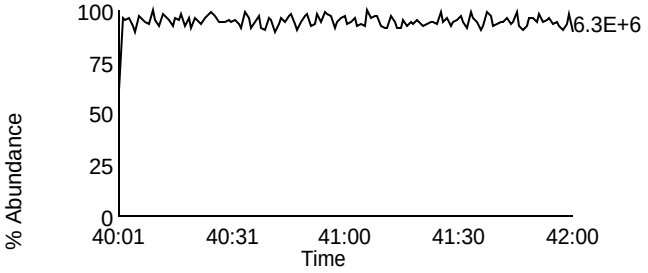
CAL CS2-7604-276 - BAL

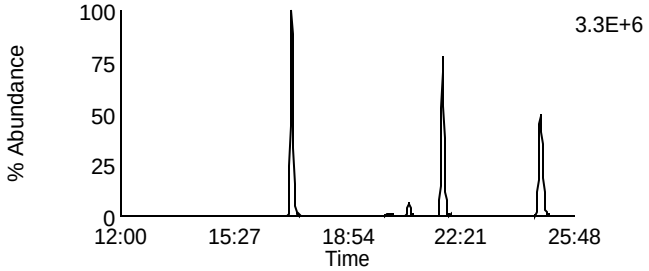


Homologue Group: Tetras

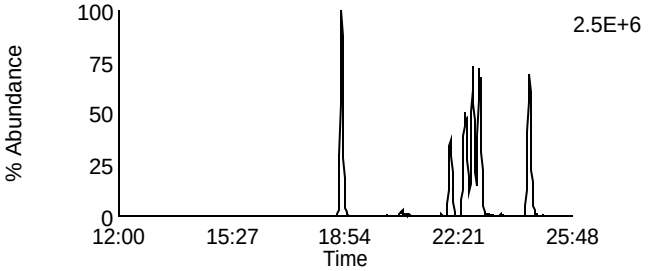
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

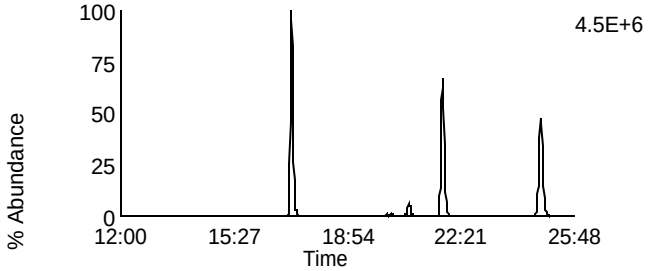
Data File: U140322B_04 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL



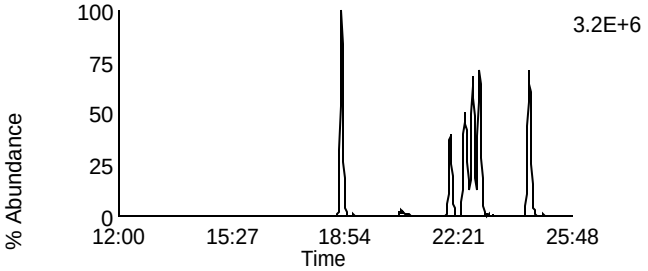
Data File: U140322B_04 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL



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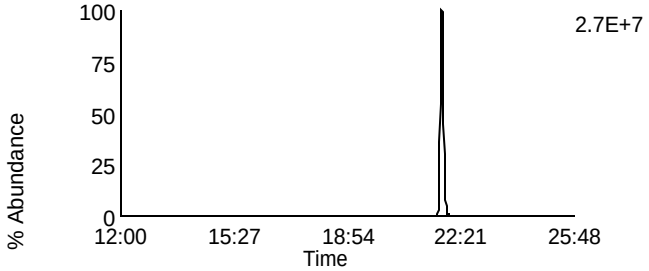
CAL CS3/CPM-7604-301 - BAL



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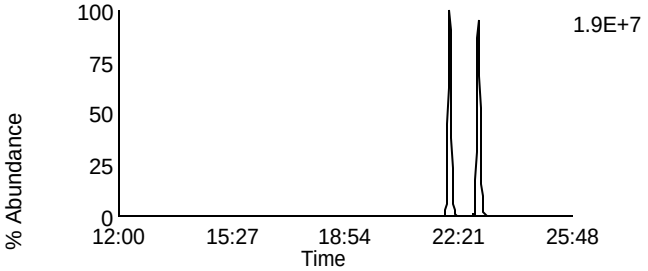
CAL CS3/CPM-7604-301 - BAL



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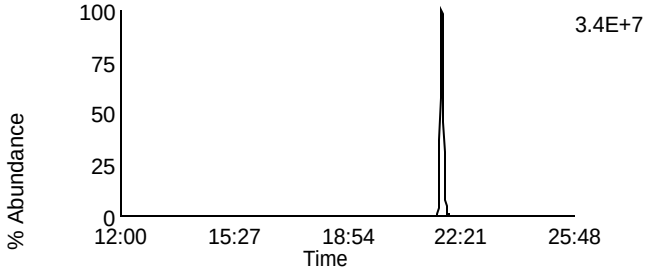
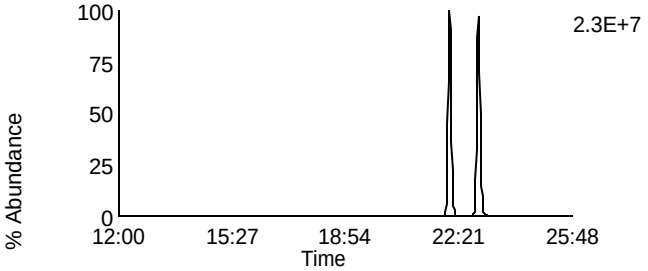
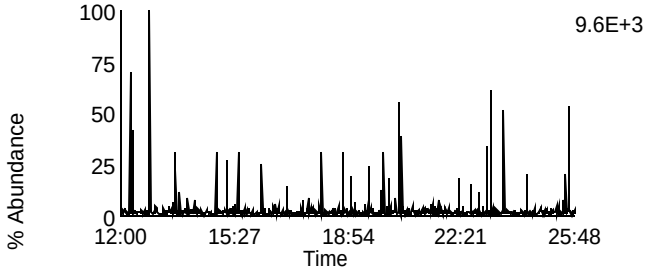
CAL CS3/CPM-7604-301 - BAL



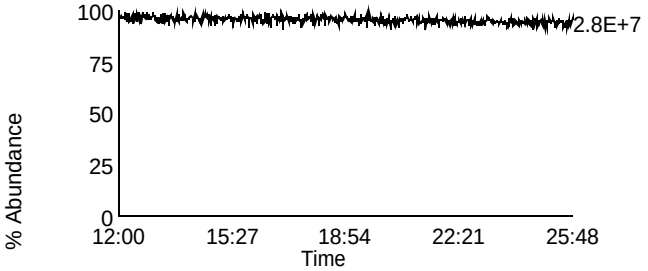
Data File: U140322B_04 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

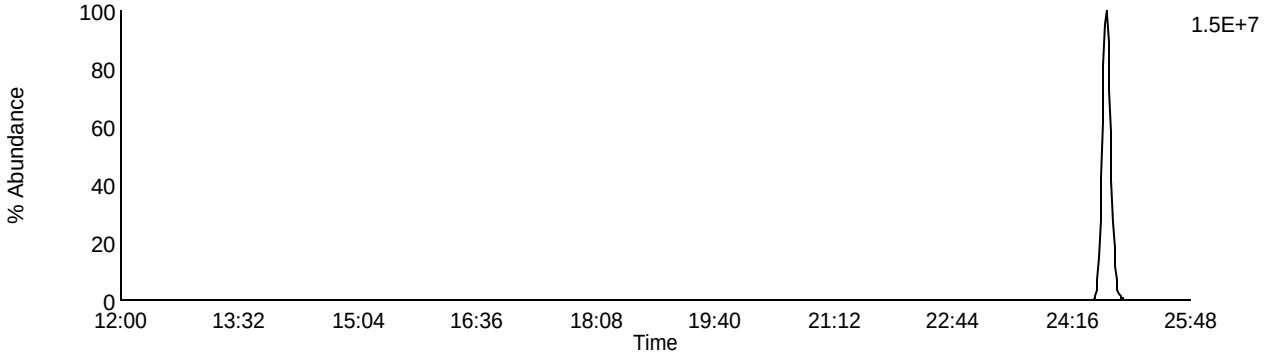


Homologue Group: Penta & Cleanup

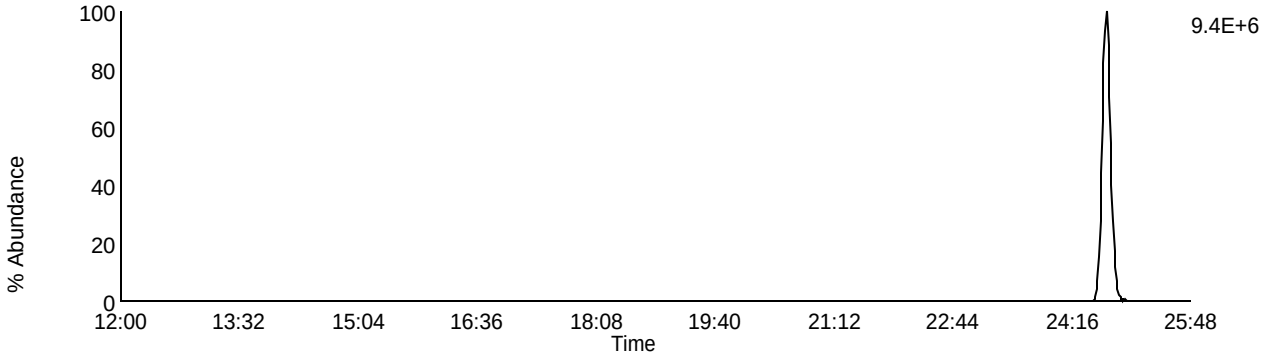
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

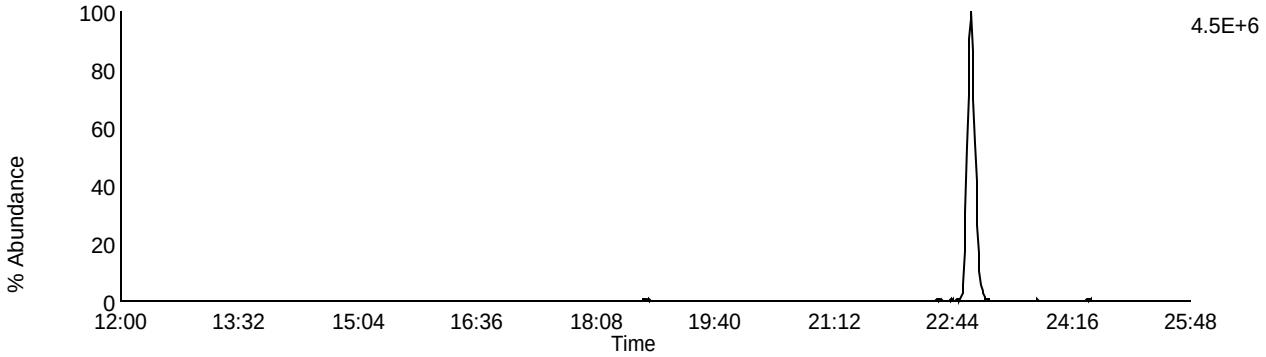
Data File: U140322B_04 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL



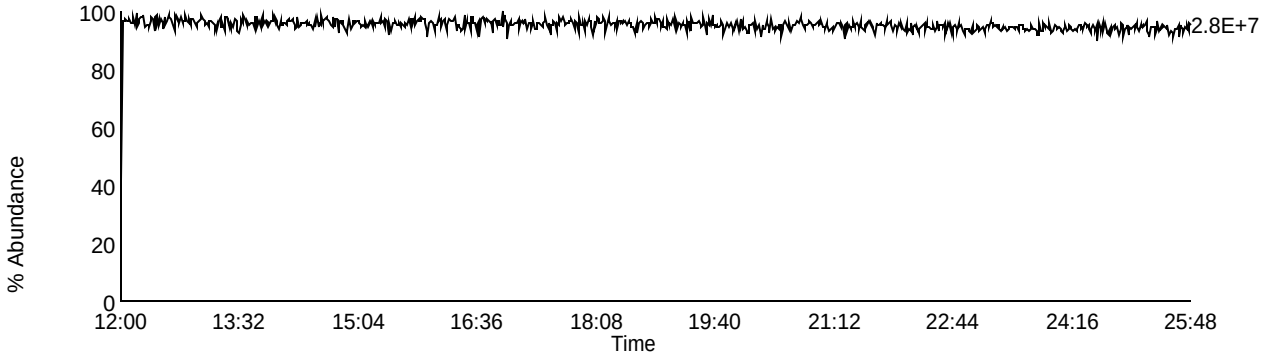
Data File: U140322B_04 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

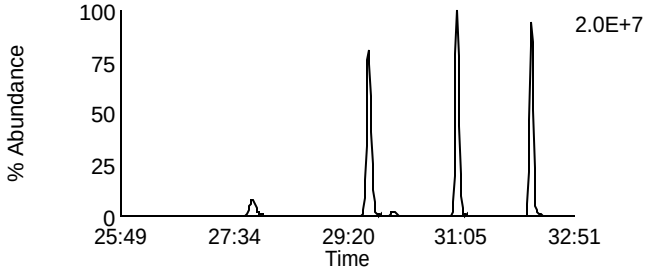


Homologue Group: Pentas

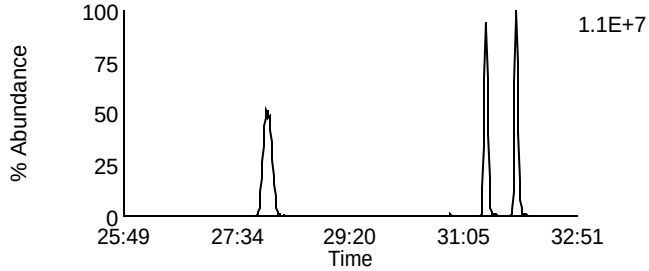
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

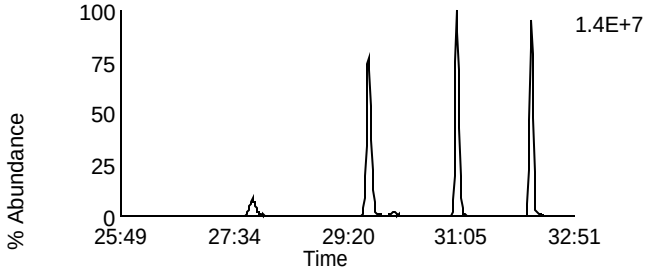
Data File: U140322B_04 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL



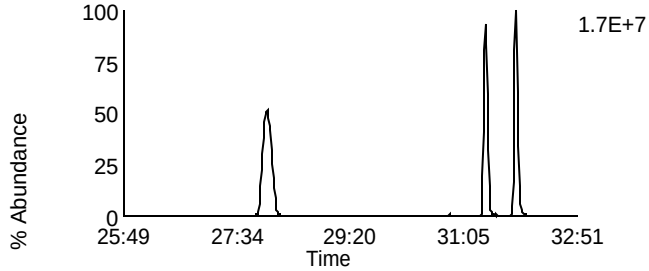
Data File: U140322B_04 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL



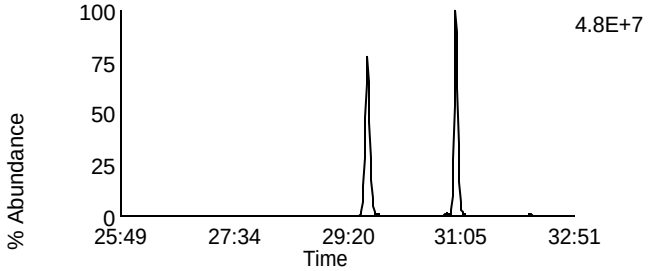
Data File: U140322B_04 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL



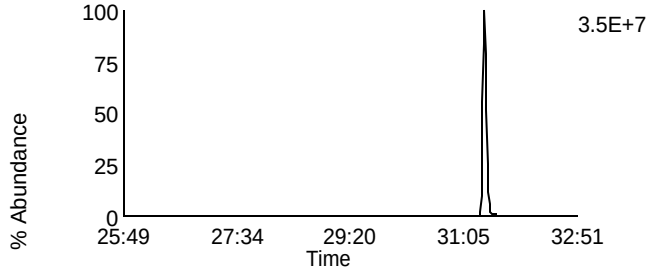
Data File: U140322B_04 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL



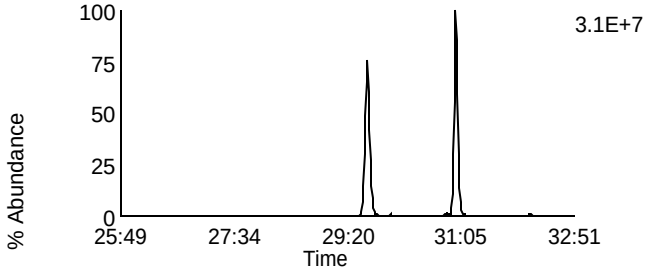
Data File: U140322B_04 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL



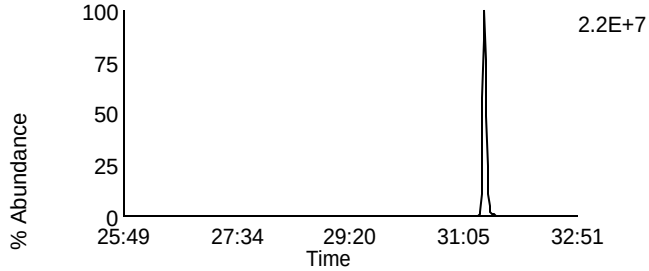
Data File: U140322B_04 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL



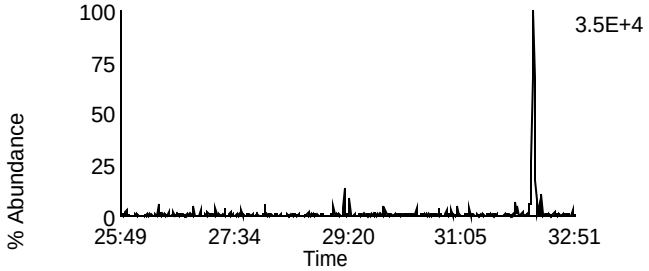
Data File: U140322B_04 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL



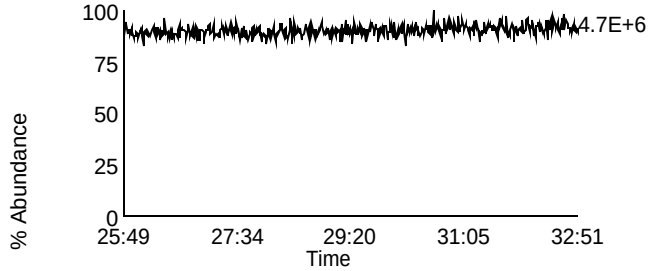
Data File: U140322B_04 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL

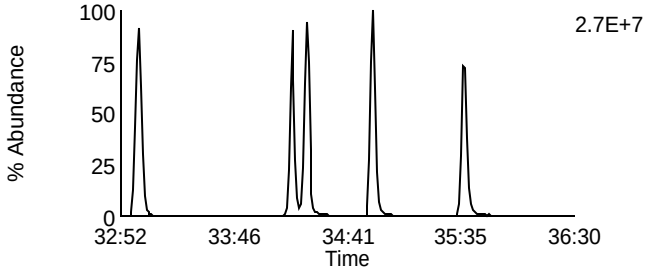


Homologue Group: Hexas

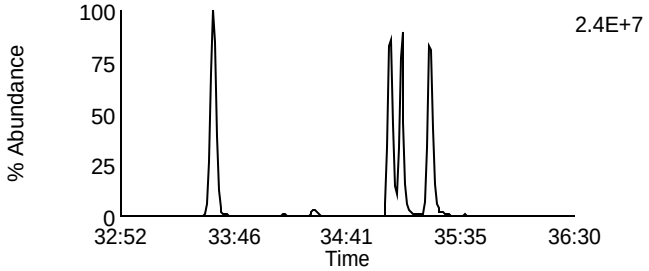
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

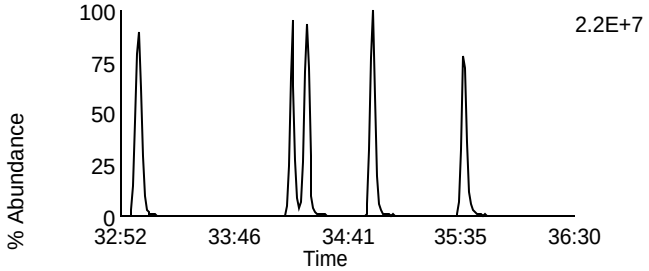
Data File: U140322B_04 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL



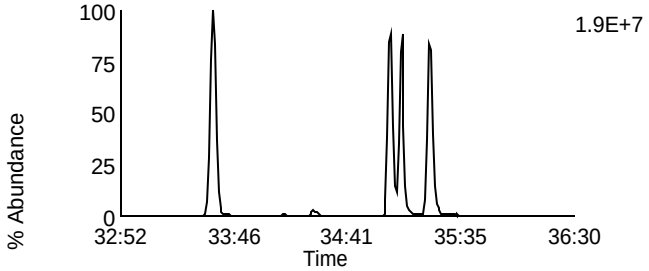
Data File: U140322B_04 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL



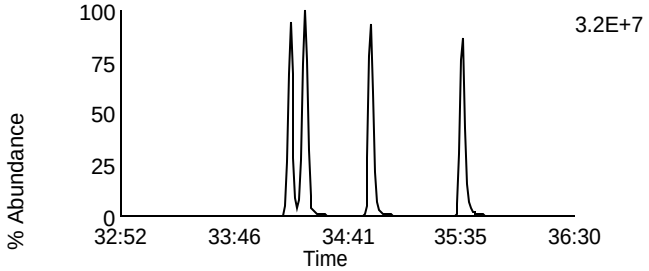
Data File: U140322B_04 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL



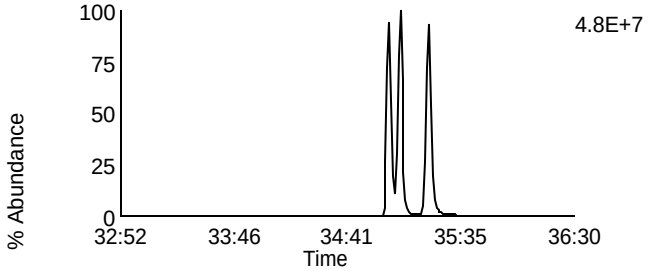
Data File: U140322B_04 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL



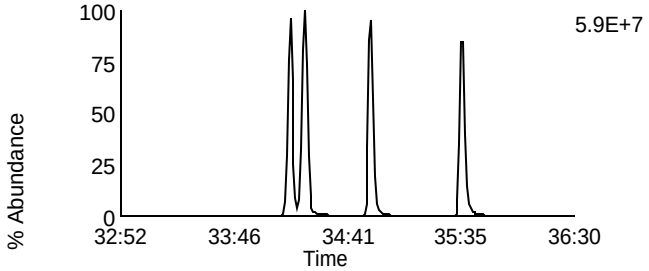
Data File: U140322B_04 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL



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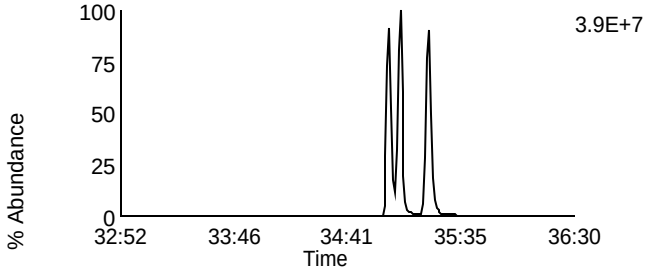
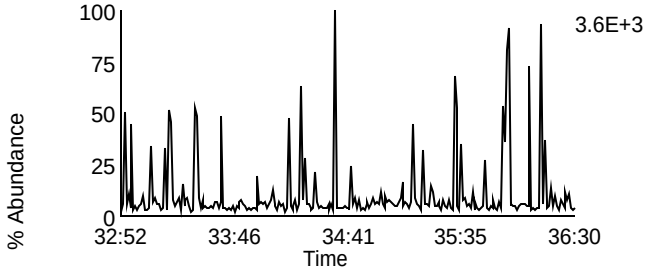
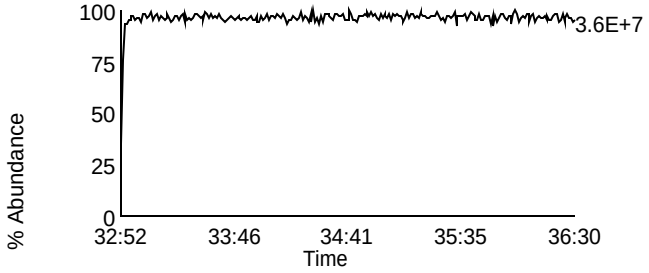
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL

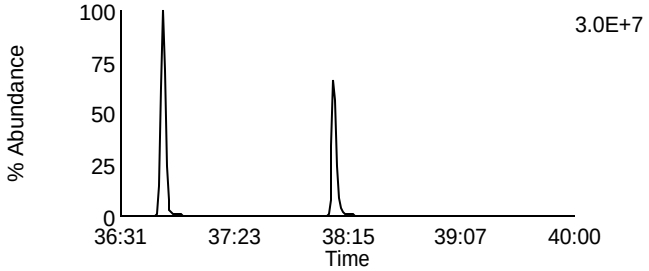


Homologue Group: Heptas

Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_04 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL



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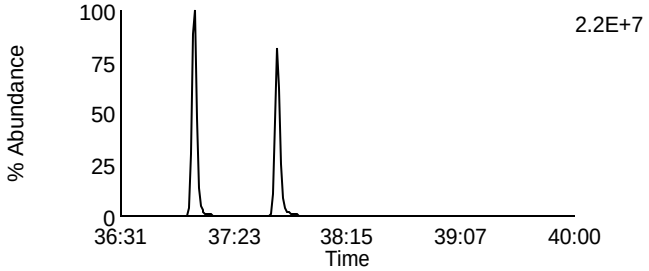
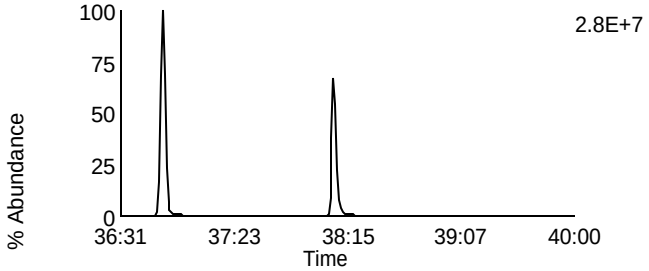
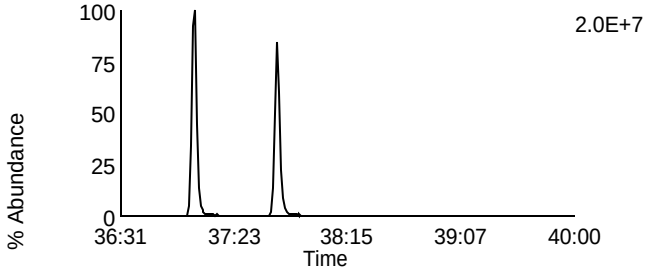
CAL CS3/CPM-7604-301 - BAL



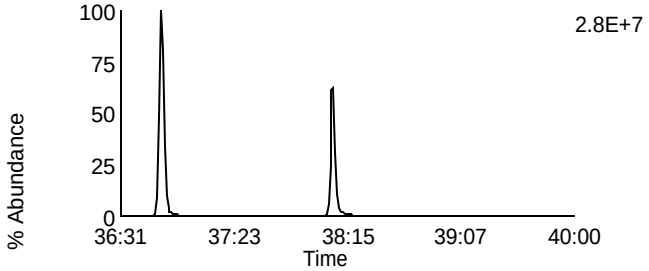
Data File: U140322B_04 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL



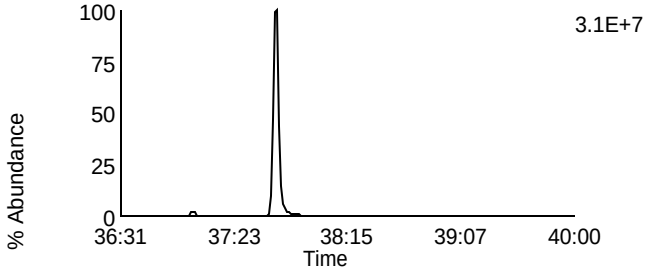
Data File: U140322B_04 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL



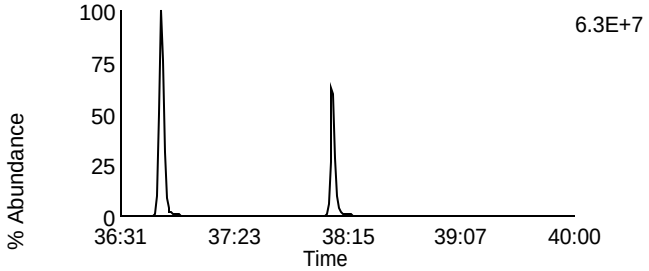
Data File: U140322B_04 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL



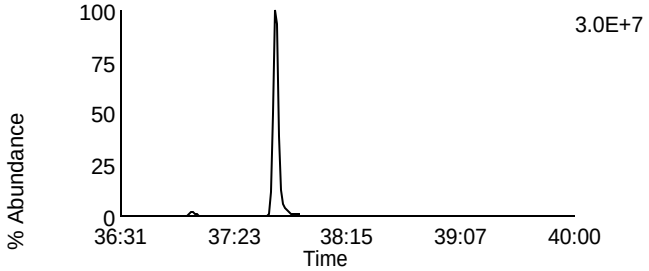
Data File: U140322B_04 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL



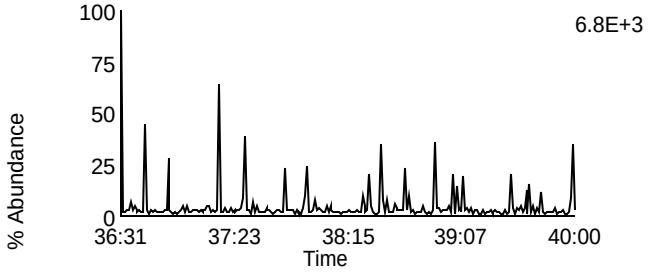
Data File: U140322B_04 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL



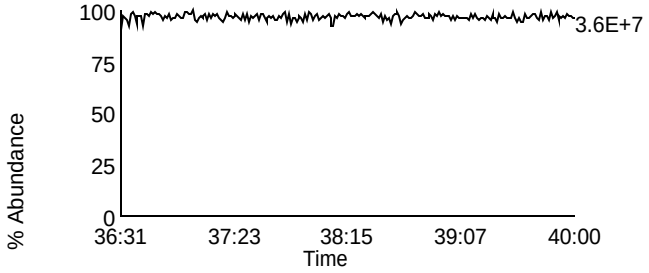
Data File: U140322B_04 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL

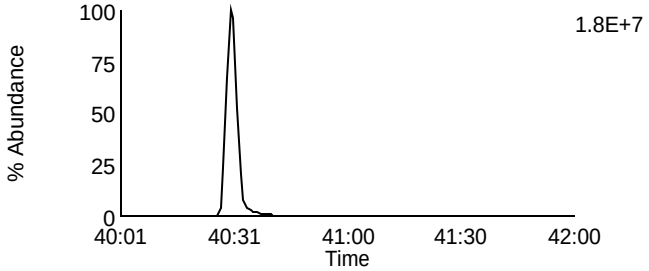


Homologue Group: Octas

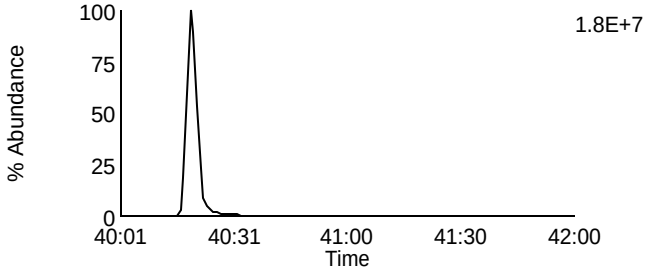
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

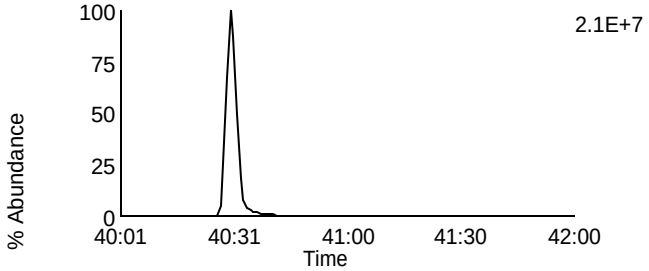
Data File: U140322B_04 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL



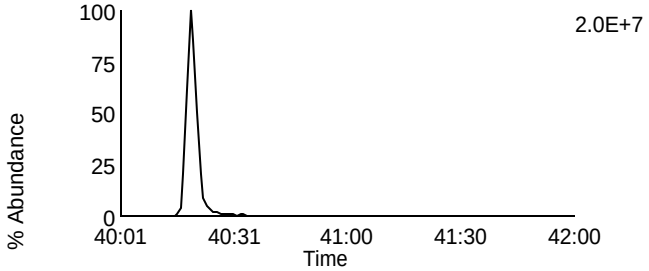
Data File: U140322B_04 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL



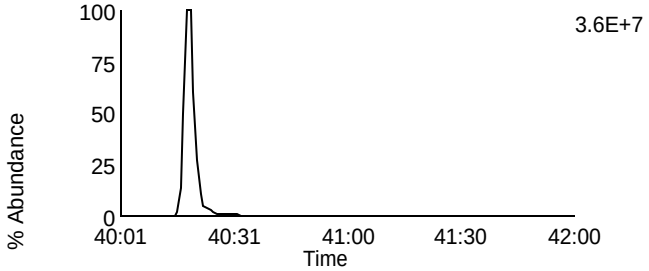
Data File: U140322B_04 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL



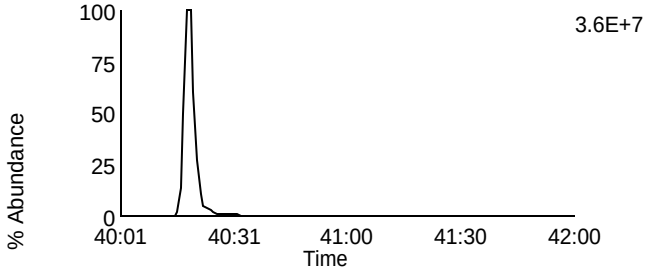
Data File: U140322B_04 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL



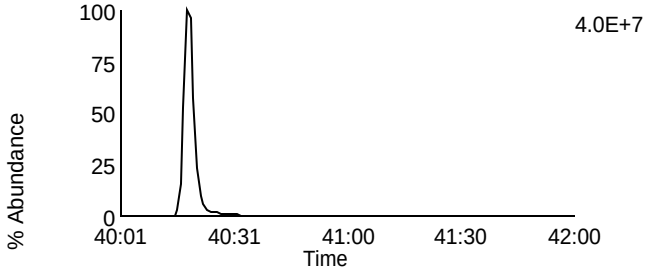
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



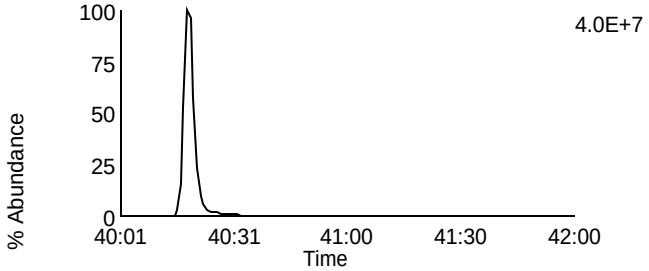
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



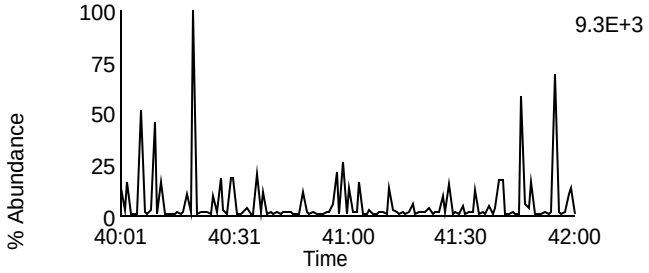
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



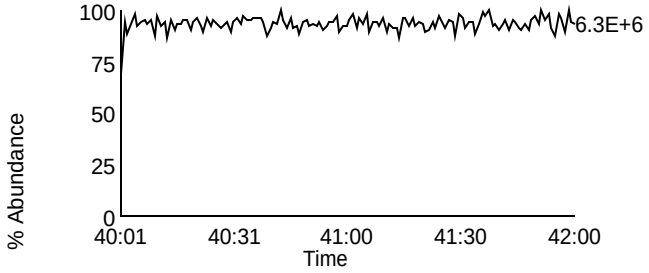
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL

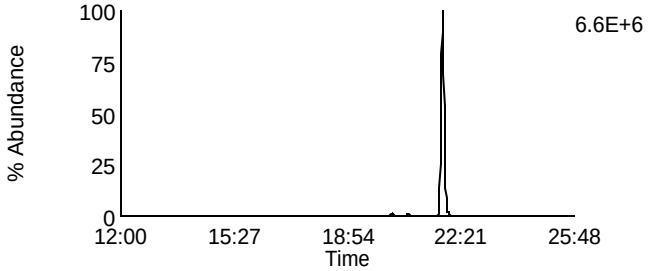


Homologue Group: Tetras

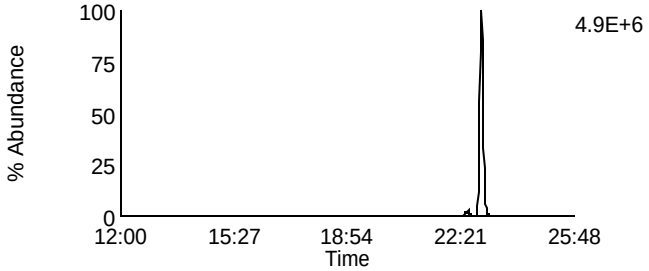
Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

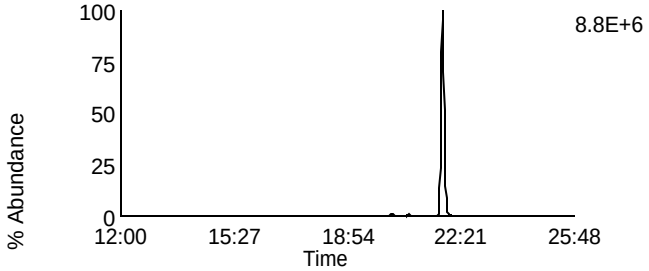
Data File: U140322B_08 G1 C1 - 303.9016
CAL CS4-7604-277 - BAL



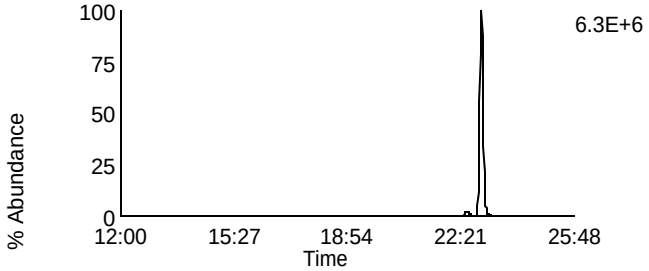
Data File: U140322B_08 G1 C7 - 319.8965
CAL CS4-7604-277 - BAL



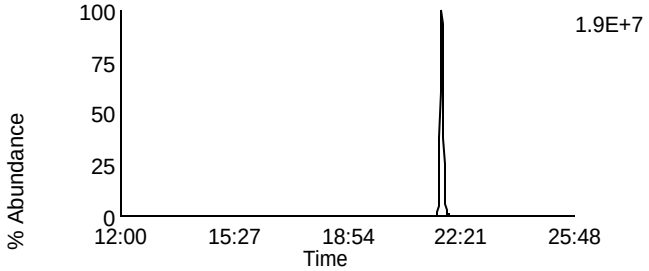
Data File: U140322B_08 G1 C2 - 305.8987
CAL CS4-7604-277 - BAL



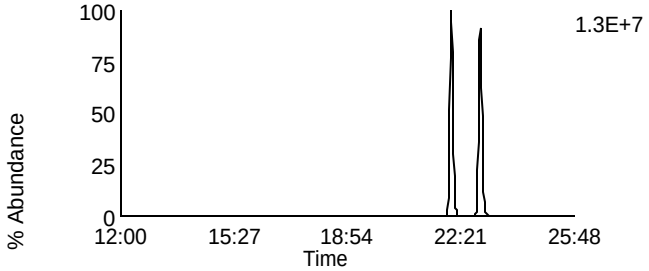
Data File: U140322B_08 G1 C8 - 321.8936
CAL CS4-7604-277 - BAL



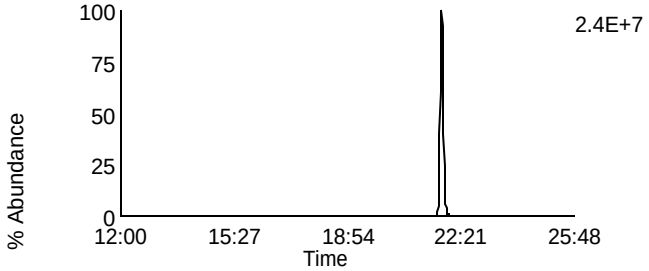
Data File: U140322B_08 G1 C3 - 315.9418
CAL CS4-7604-277 - BAL



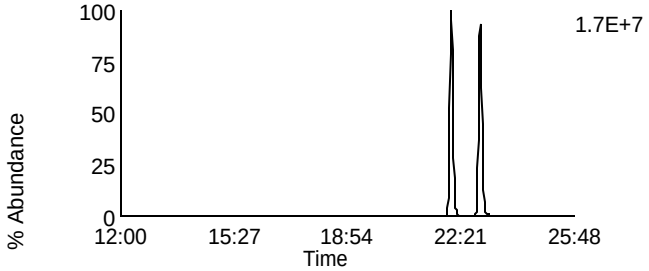
Data File: U140322B_08 G1 C10 - 331.9367
CAL CS4-7604-277 - BAL



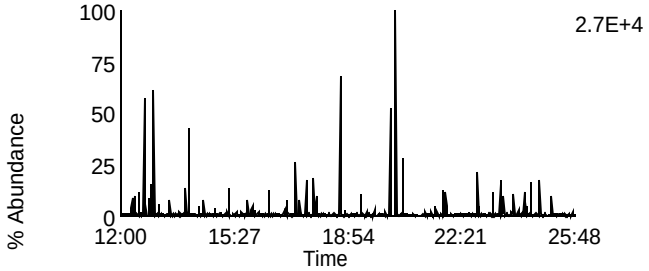
Data File: U140322B_08 G1 C4 - 317.9389
CAL CS4-7604-277 - BAL



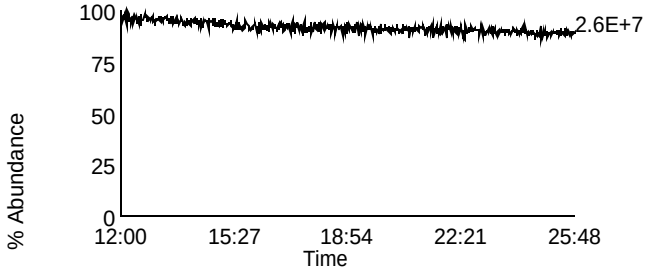
Data File: U140322B_08 G1 C11 - 333.9338
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G1 C14 - 375.8364
CAL CS4-7604-277 - BAL



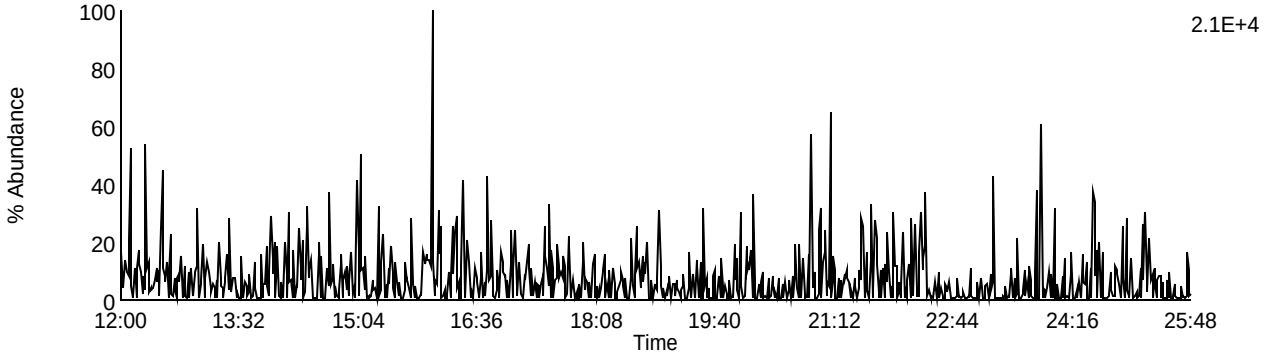
Data File: U140322B_08 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL



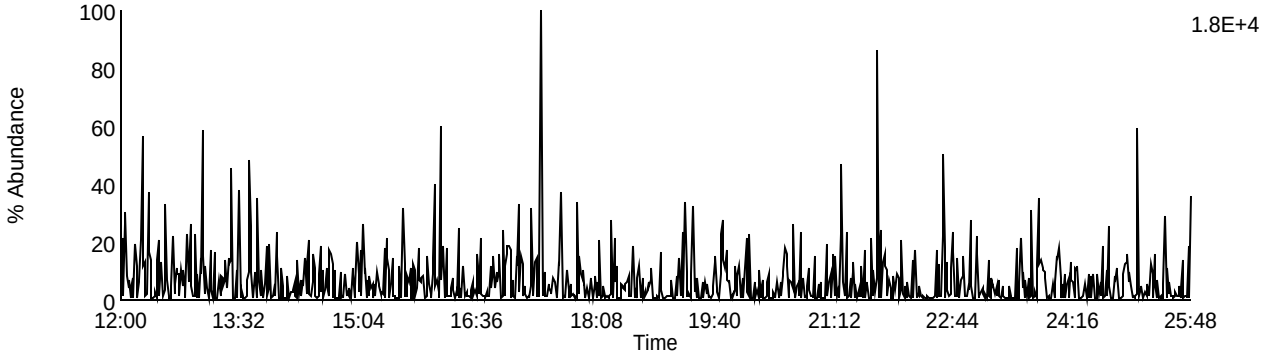
Homologue Group: Penta & Cleanup

Data File Name: U140322B_08	Lab Sample ID: CS4-7604-277
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS4-7604-277 - BAL	Instrument: 10MSHR06 (U)

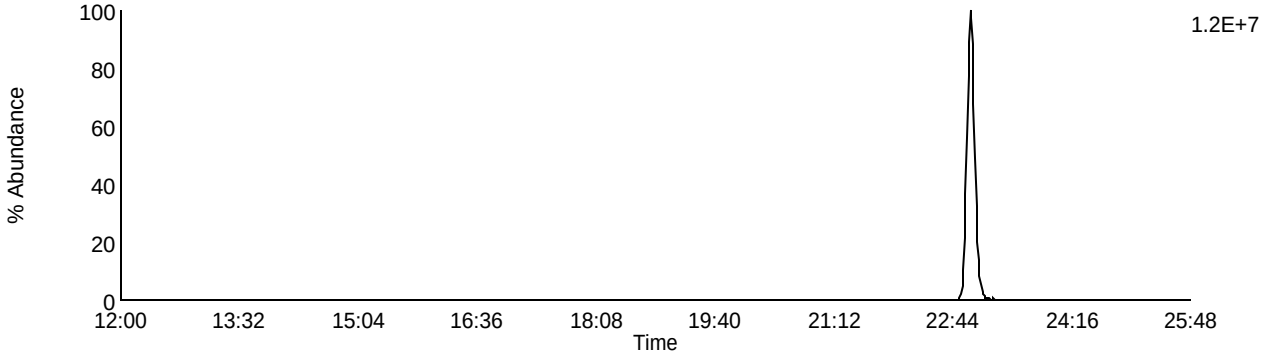
Data File: U140322B_08 G1 C12 - 339.8597
CAL CS4-7604-277 - BAL



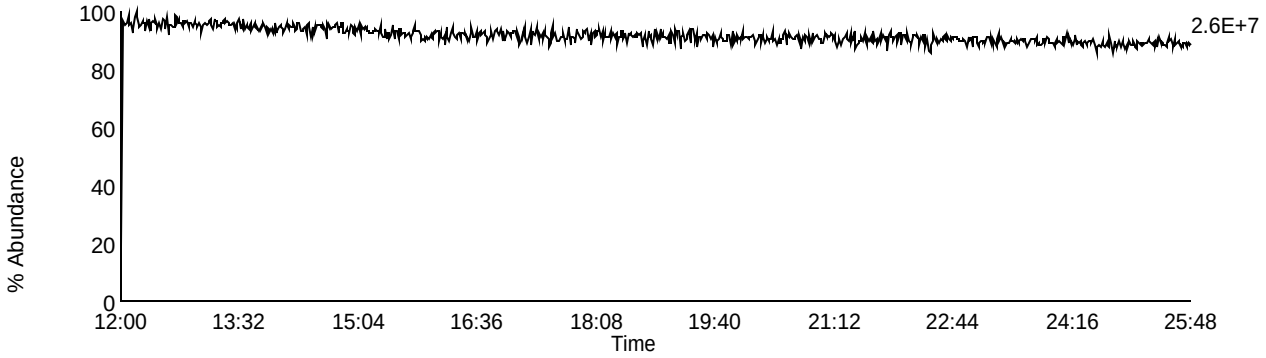
Data File: U140322B_08 G1 C13 - 341.8567
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G1 C9 - 327.8847
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G1 C5 - 318.9792
CAL CS4-7604-277 - BAL

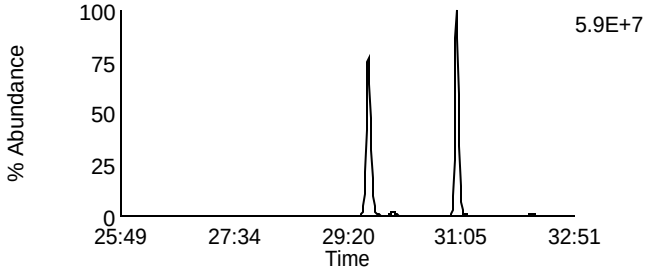


Homologue Group: Pentas

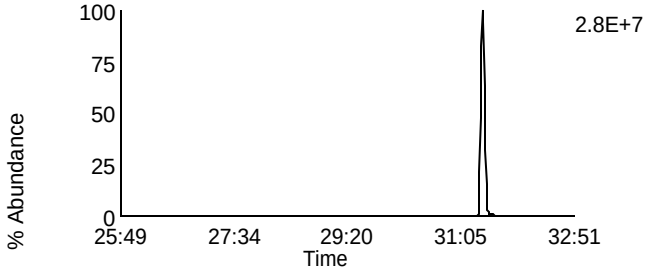
Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

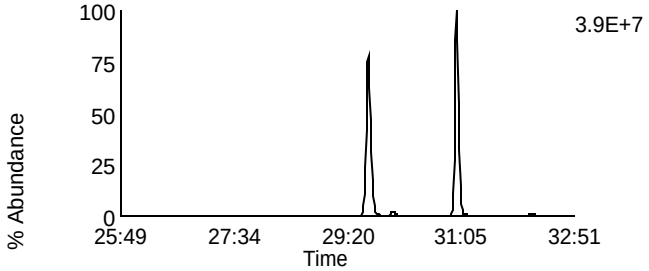
Data File: U140322B_08 G2 C1 - 339.8597
CAL CS4-7604-277 - BAL



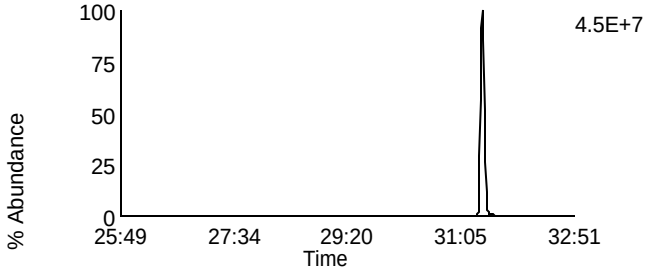
Data File: U140322B_08 G2 C4 - 353.8576
CAL CS4-7604-277 - BAL



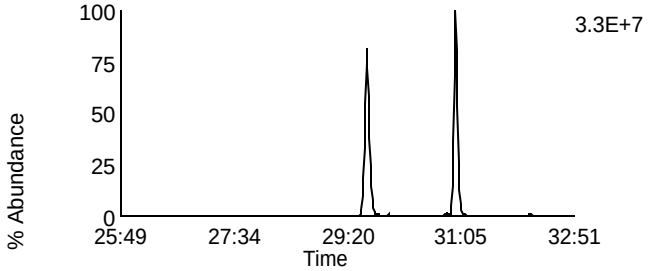
Data File: U140322B_08 G2 C2 - 341.8567
CAL CS4-7604-277 - BAL



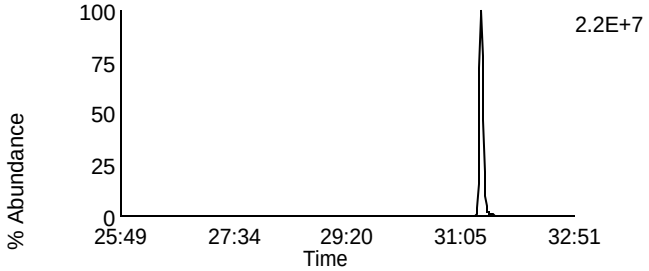
Data File: U140322B_08 G2 C8 - 355.8546
CAL CS4-7604-277 - BAL



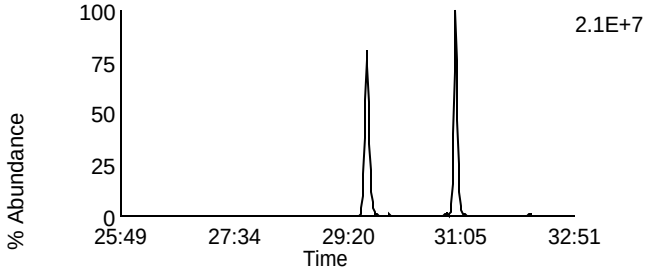
Data File: U140322B_08 G2 C3 - 351.8999
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C10 - 367.8948
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G2 C5 - 353.8969
CAL CS4-7604-277 - BAL



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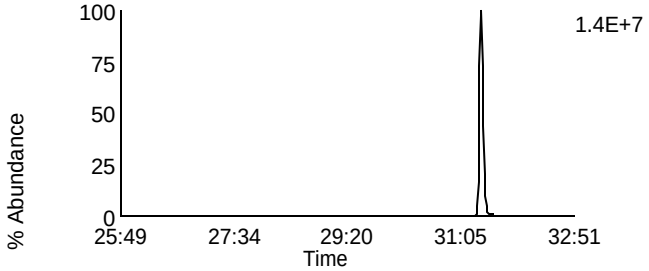
CAL CS4-7604-277 - BAL



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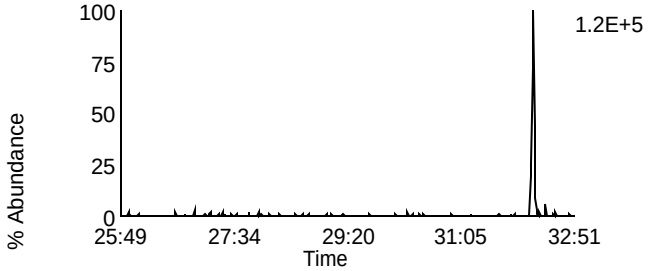
CAL CS4-7604-277 - BAL



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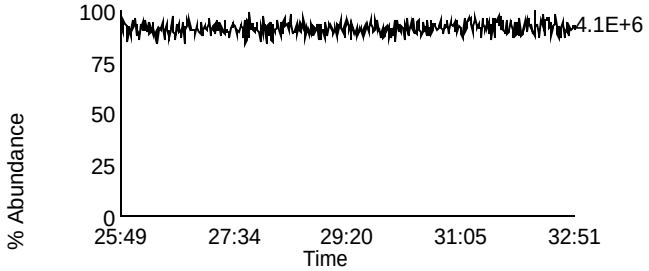
CAL CS4-7604-277 - BAL

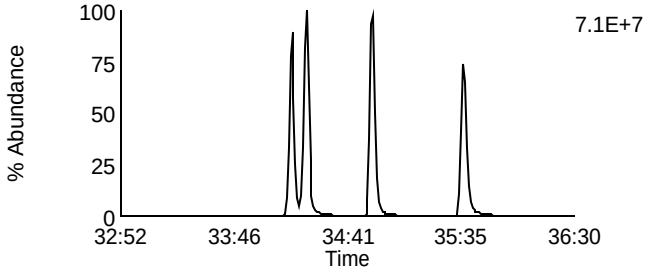


Homologue Group: Hexas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G3 C1 - 373.8207
CAL CS4-7604-277 - BAL



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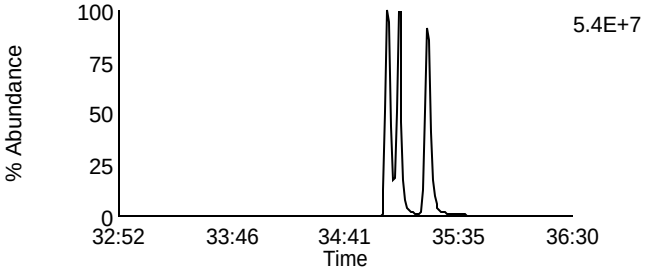
CAL CS4-7604-277 - BAL



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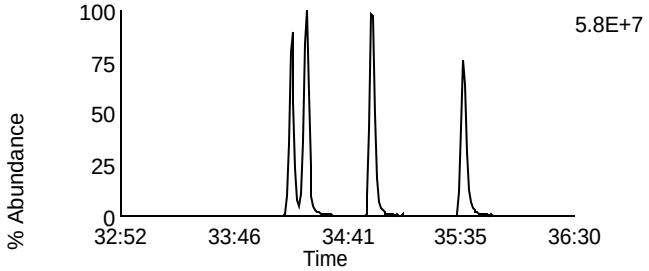
CAL CS4-7604-277 - BAL



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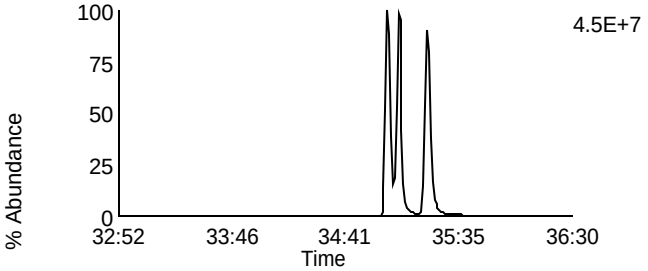
CAL CS4-7604-277 - BAL



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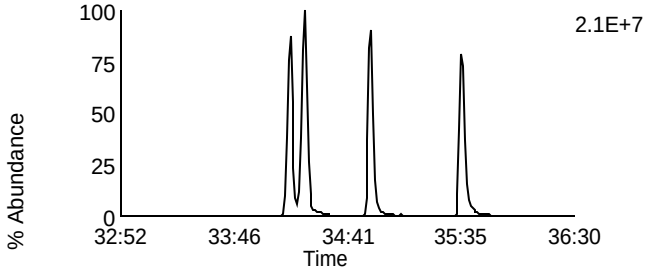
CAL CS4-7604-277 - BAL



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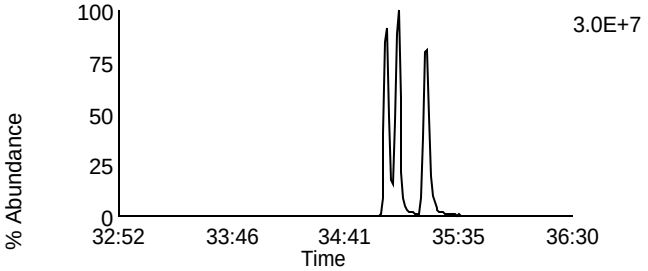
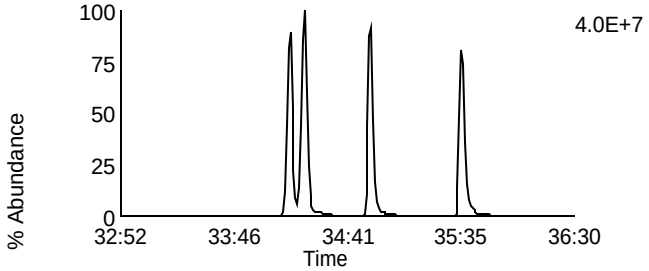
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G3 C6 - 385.861
CAL CS4-7604-277 - BAL



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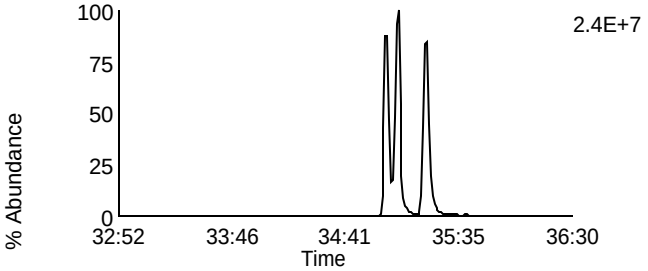
CAL CS4-7604-277 - BAL



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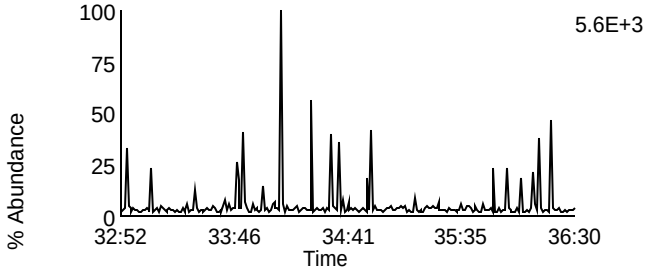
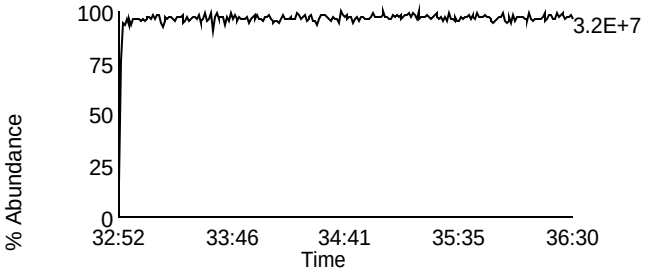
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G3 C3 - 380.976
CAL CS4-7604-277 - BAL

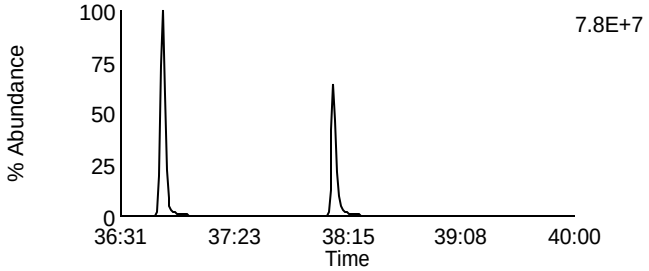


Homologue Group: Heptas

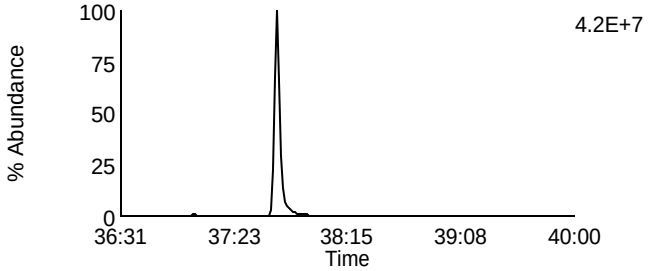
Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G4 C3 - 407.7818
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C8 - 423.7767
CAL CS4-7604-277 - BAL



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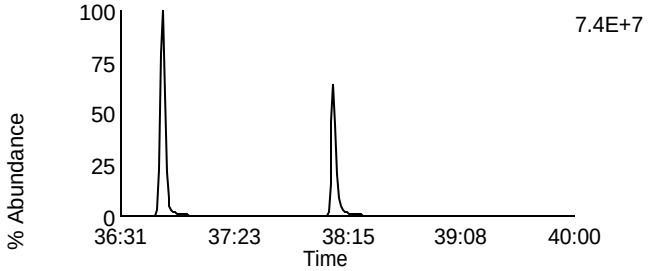
CAL CS4-7604-277 - BAL



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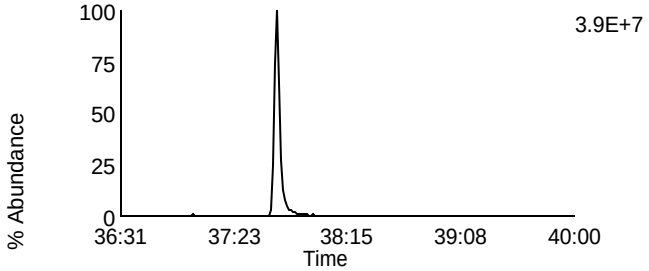
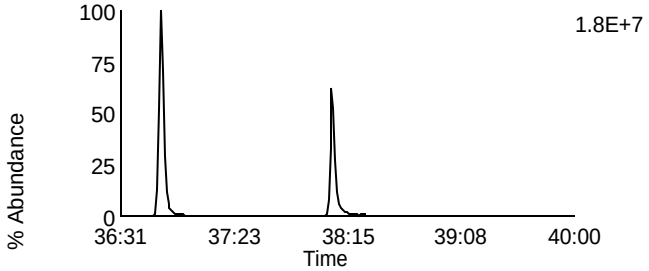
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C6 - 417.825
CAL CS4-7604-277 - BAL



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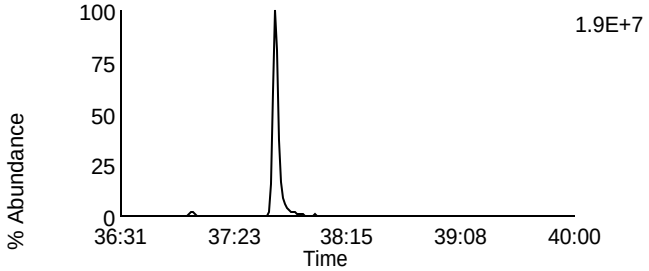
CAL CS4-7604-277 - BAL



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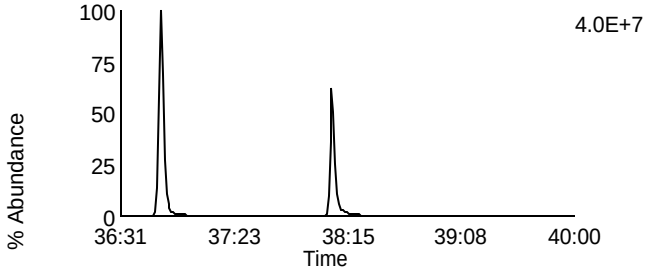
CAL CS4-7604-277 - BAL



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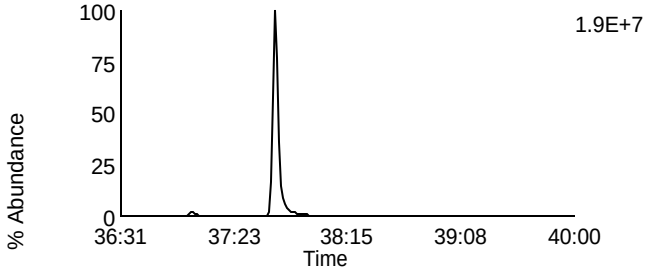
CAL CS4-7604-277 - BAL



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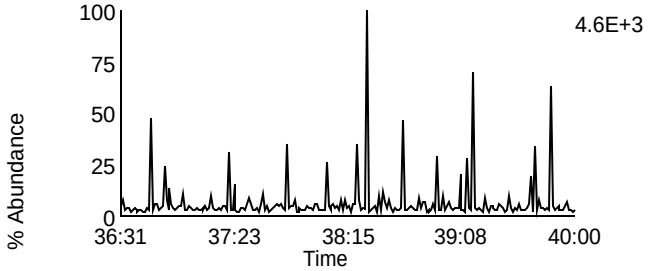
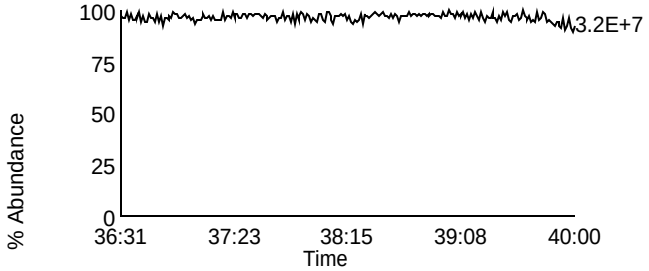
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G4 C1 - 380.976
CAL CS4-7604-277 - BAL

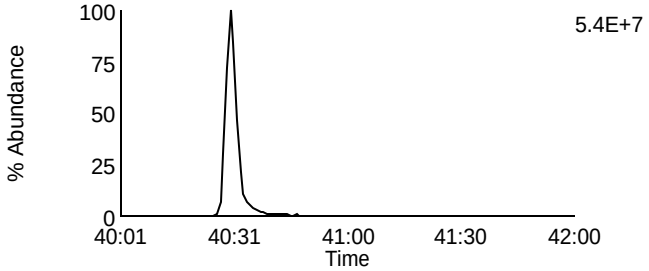


Homologue Group: Octas

Data File Name: U140322B_08
Date Acquired: 3/22/2014
Sample Description: CAL CS4-7604-277 - BAL

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_08 G5 C4 - 441.7428
CAL CS4-7604-277 - BAL



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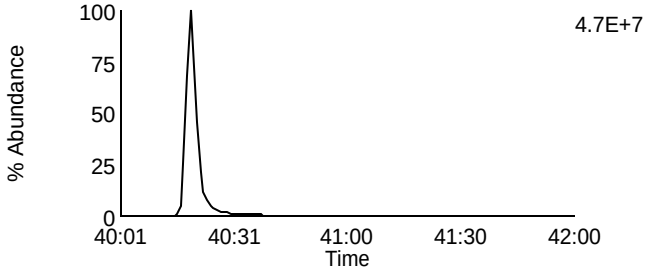
CAL CS4-7604-277 - BAL



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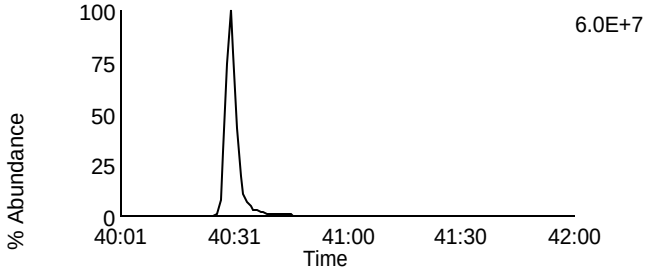
CAL CS4-7604-277 - BAL



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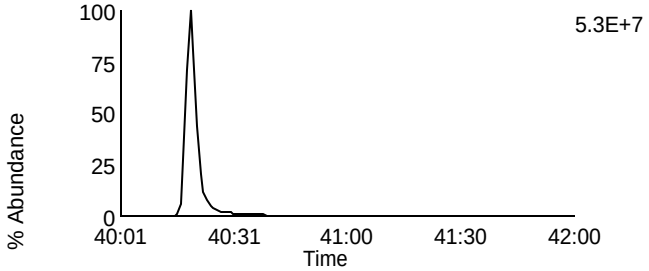
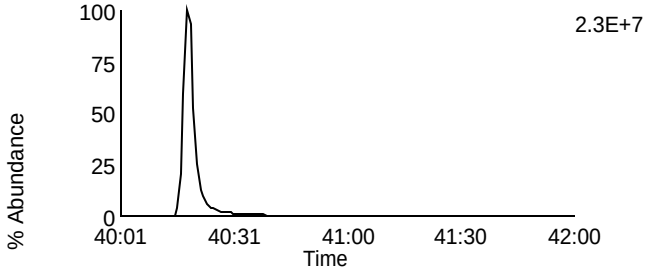
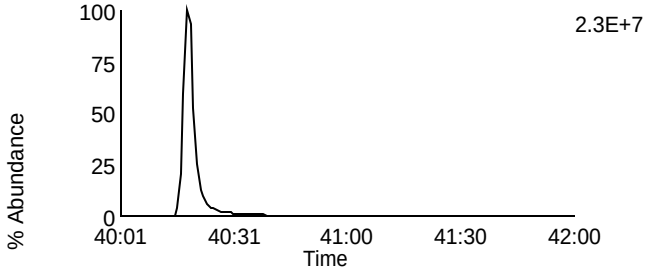
CAL CS4-7604-277 - BAL



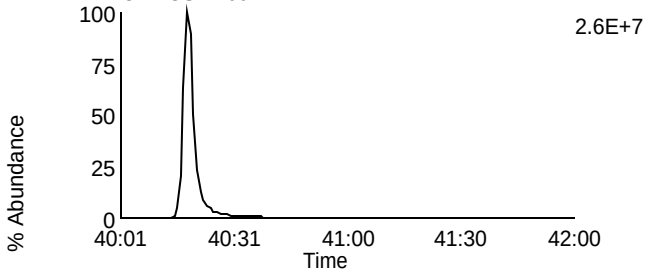
Data File: U140322B_08 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



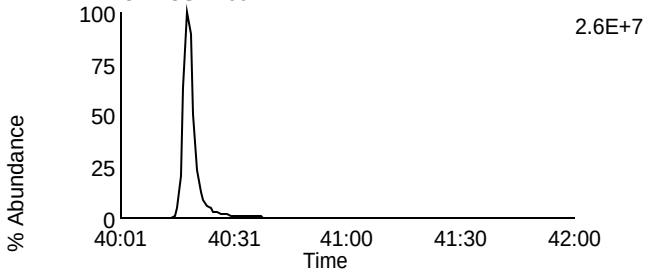
Data File: U140322B_08 G5 C11 - 469.7779
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



Data File: U140322B_08 G5 C12 - 471.7749
CAL CS4-7604-277 - BAL



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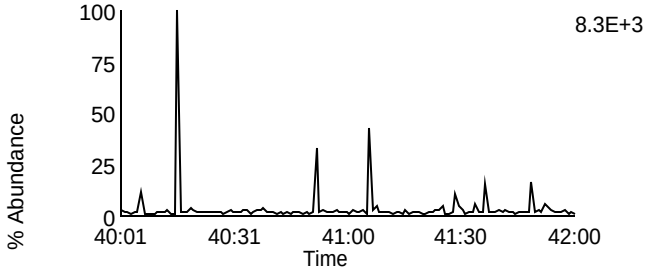
CAL CS4-7604-277 - BAL



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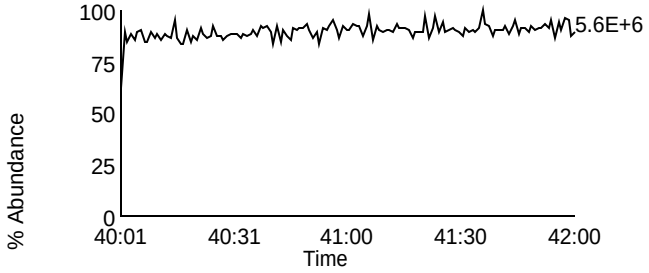
CAL CS4-7604-277 - BAL

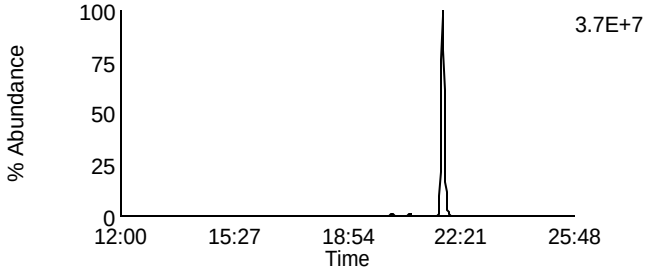


Homologue Group: Tetras

Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G1 C1 - 303.9016
CAL CS5-7604-278 - BAL



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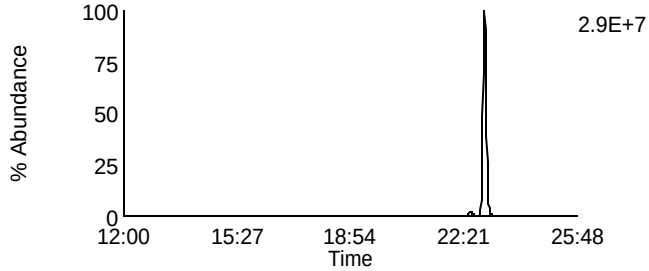
CAL CS5-7604-278 - BAL



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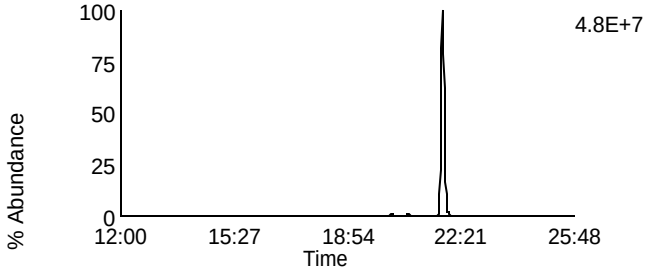
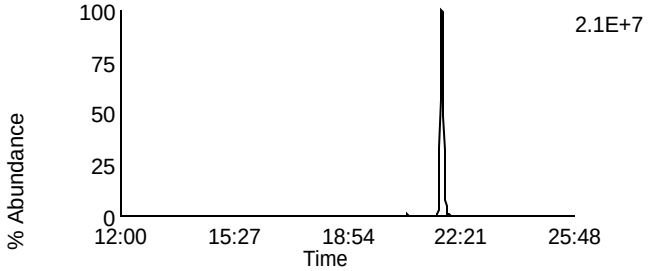
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C8 - 321.8936
CAL CS5-7604-278 - BAL

Data File: U140322B_07 G1 C3 - 315.9418
CAL CS5-7604-278 - BAL



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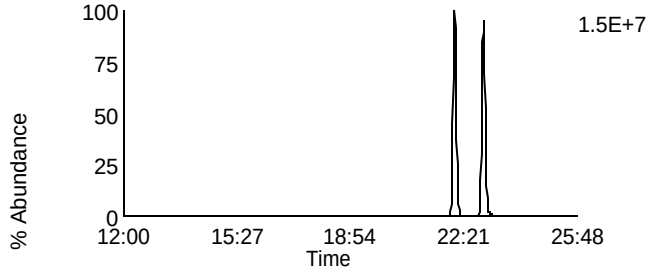
CAL CS5-7604-278 - BAL



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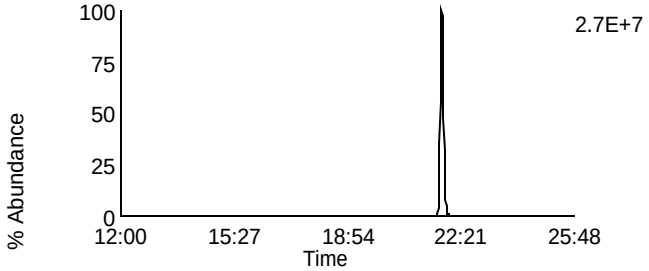
CAL CS5-7604-278 - BAL



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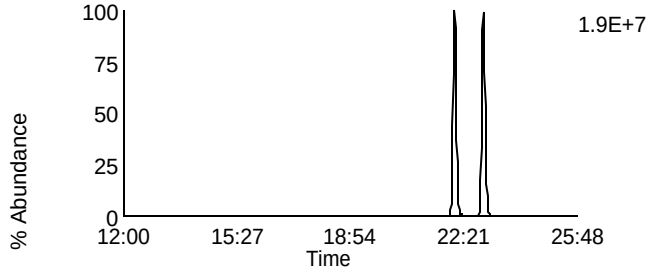
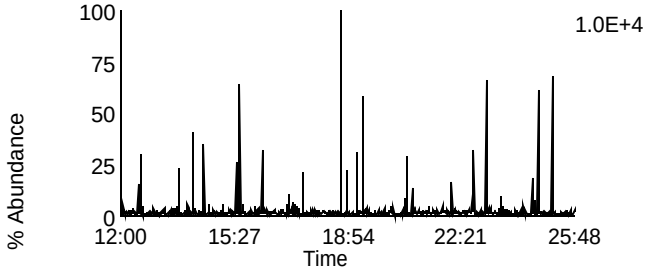
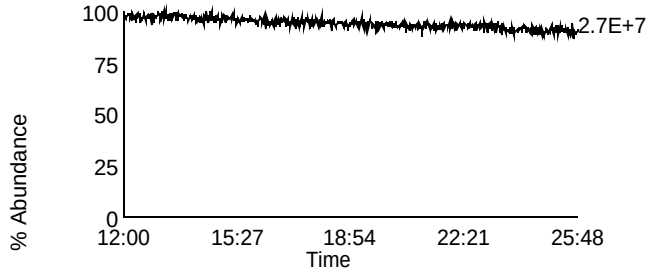
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C14 - 375.8364
CAL CS5-7604-278 - BAL



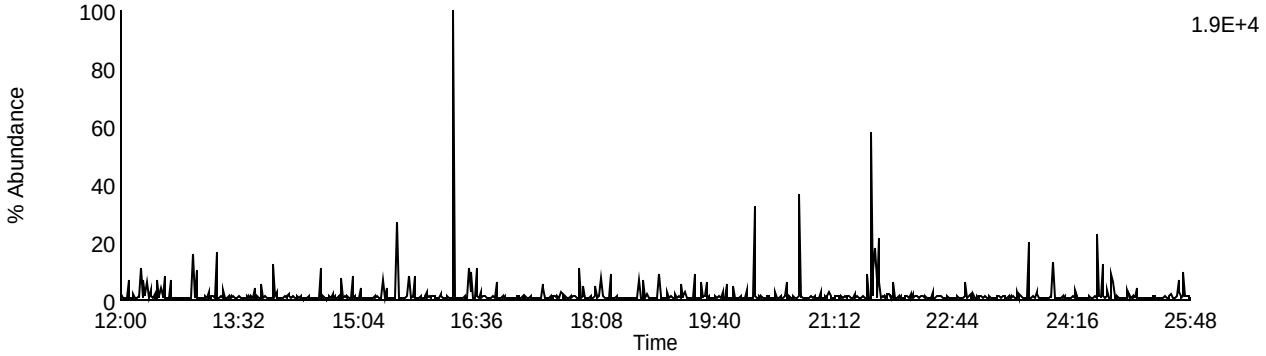
Data File: U140322B_07 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL



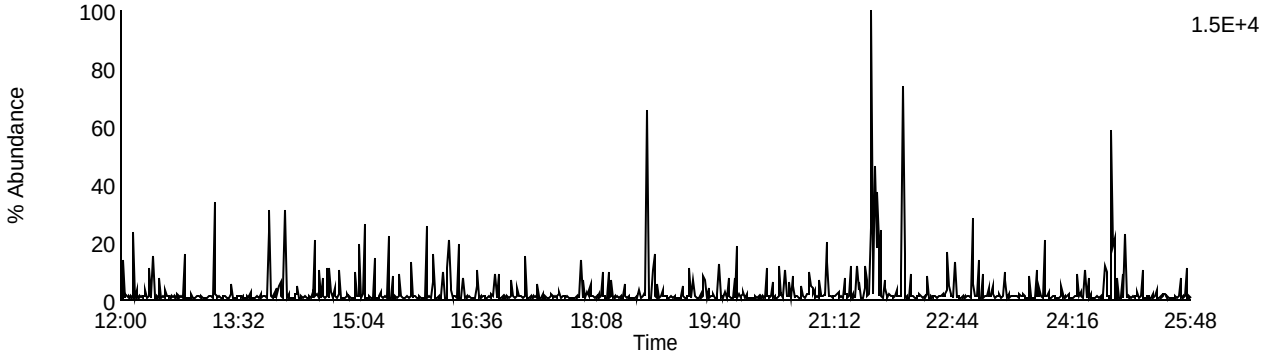
Homologue Group: Penta & Cleanup

Data File Name: U140322B_07	Lab Sample ID: CS5-7604-278
Date Acquired: 3/22/2014	Client Sample ID:
Sample Description: CAL CS5-7604-278 - BAL	Instrument: 10MSHR06 (U)

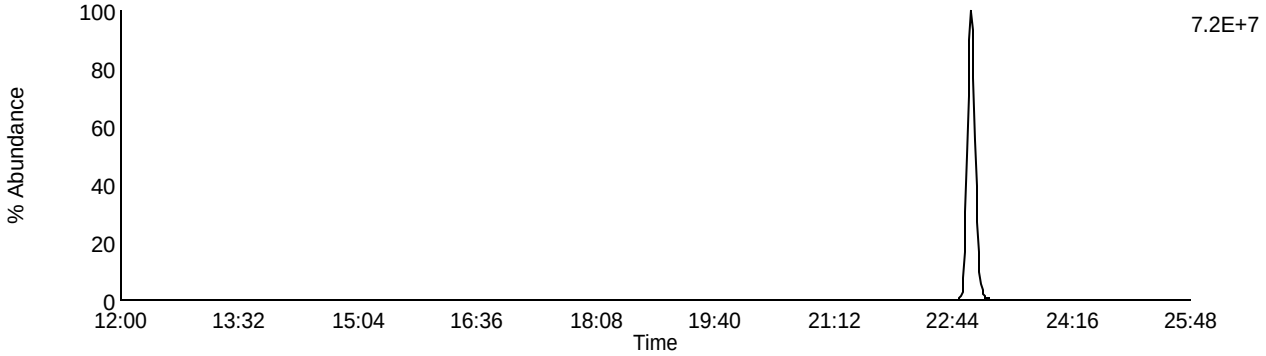
Data File: U140322B_07 G1 C12 - 339.8597
CAL CS5-7604-278 - BAL



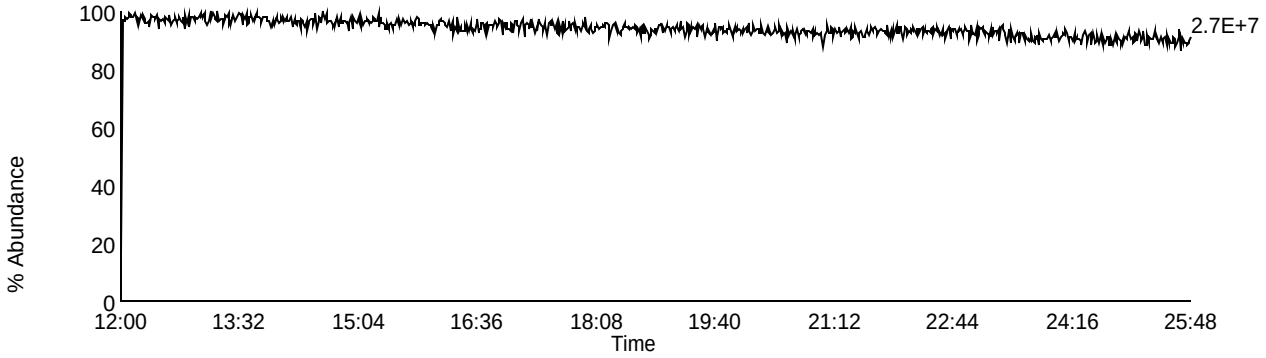
Data File: U140322B_07 G1 C13 - 341.8567
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C9 - 327.8847
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G1 C5 - 318.9792
CAL CS5-7604-278 - BAL

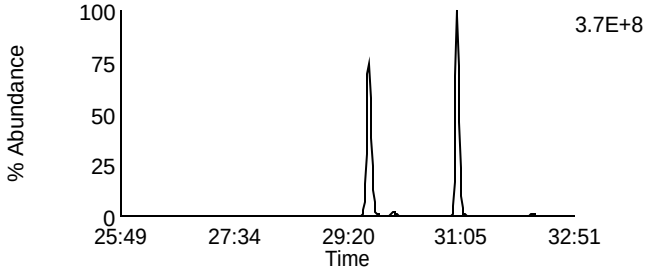


Homologue Group: Pentas

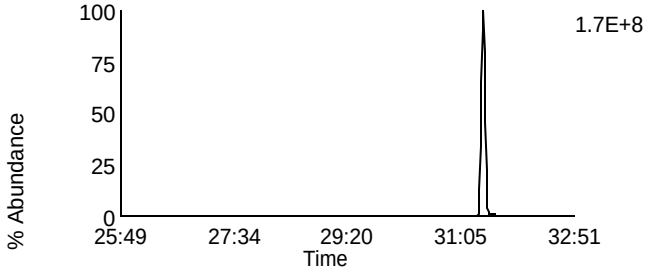
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G2 C1 - 339.8597
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C4 - 353.8576
CAL CS5-7604-278 - BAL



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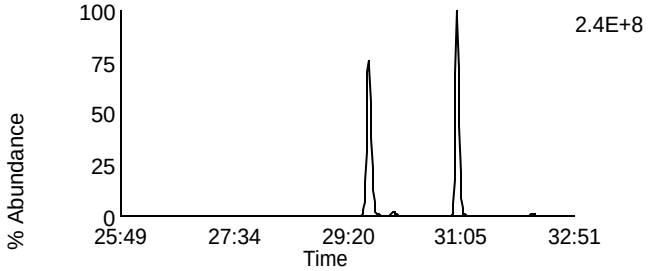
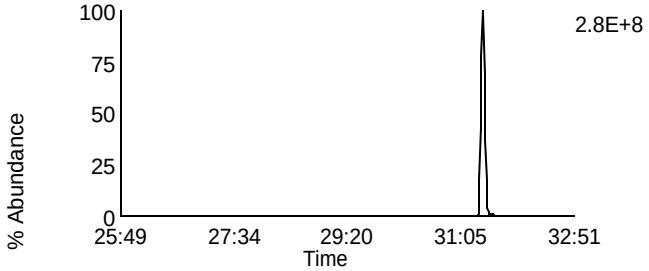
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C8 - 355.8546
CAL CS5-7604-278 - BAL



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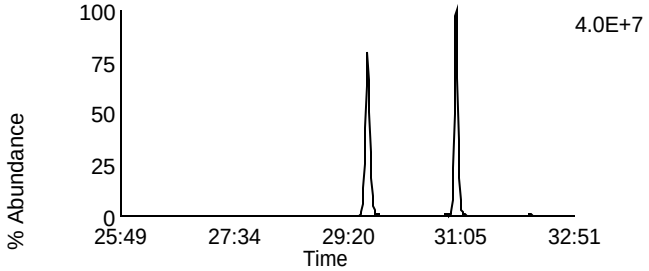
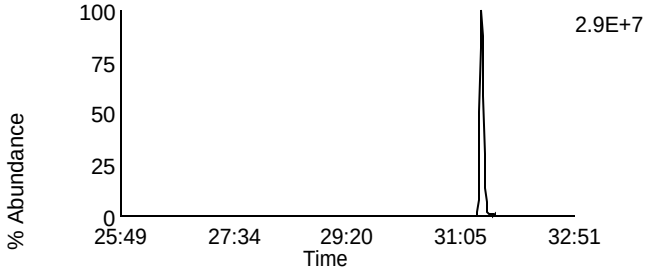
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G2 C10 - 367.8948
CAL CS5-7604-278 - BAL



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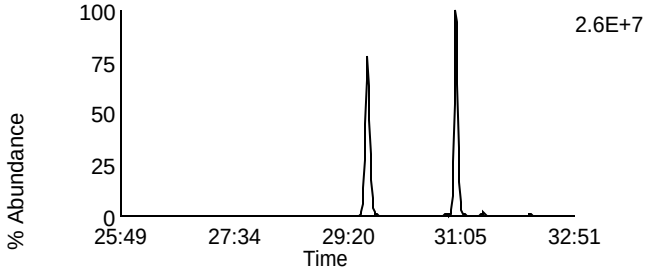
CAL CS5-7604-278 - BAL



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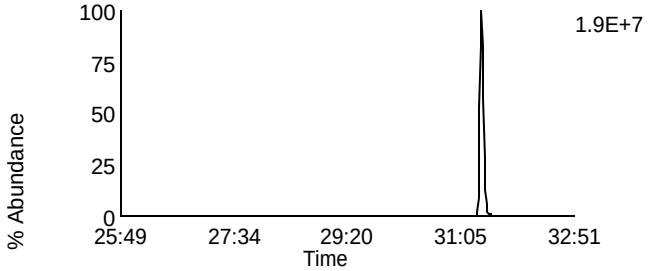
CAL CS5-7604-278 - BAL



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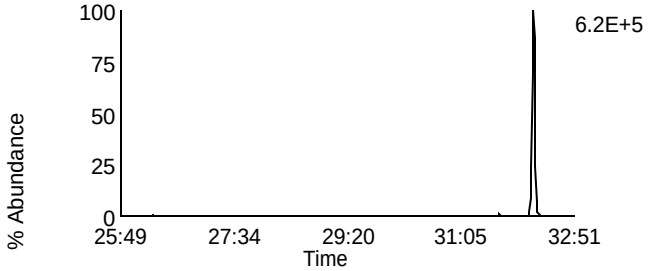
CAL CS5-7604-278 - BAL



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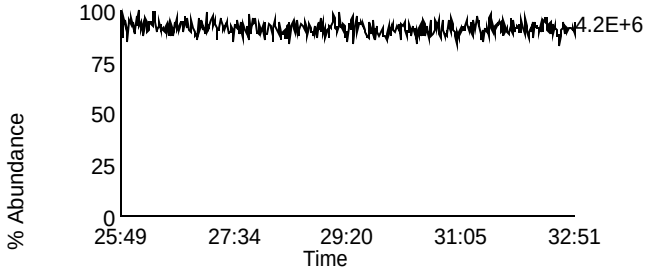
CAL CS5-7604-278 - BAL

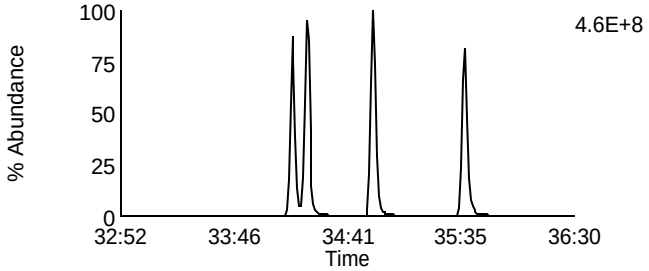


Homologue Group: Hexas

Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G3 C1 - 373.8207
CAL CS5-7604-278 - BAL



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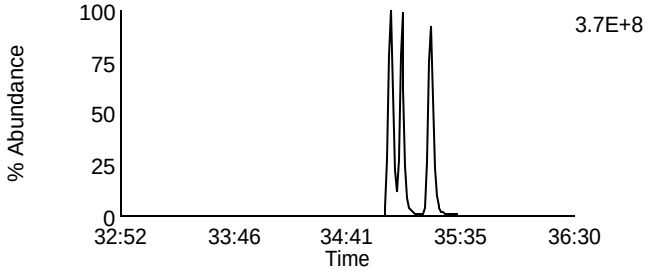
CAL CS5-7604-278 - BAL



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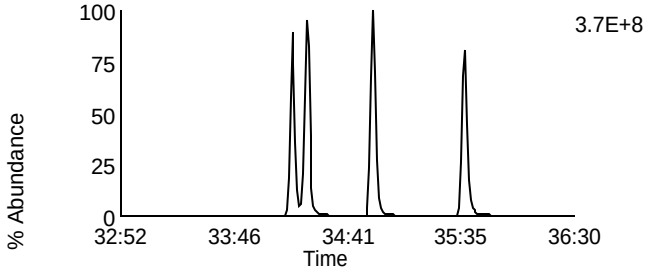
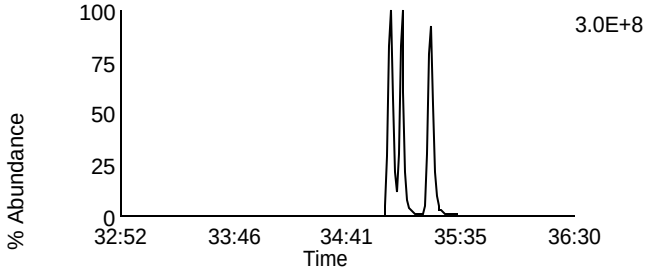
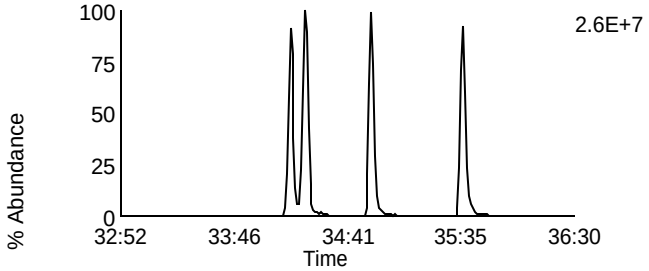
CAL CS5-7604-278 - BAL



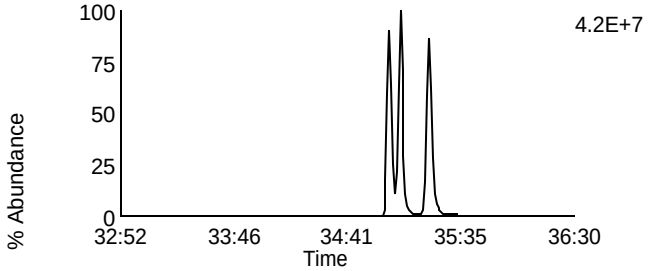
Data File: U140322B_07 G3 C8 - 391.8127
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C5 - 383.8639
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C9 - 401.8559
CAL CS5-7604-278 - BAL



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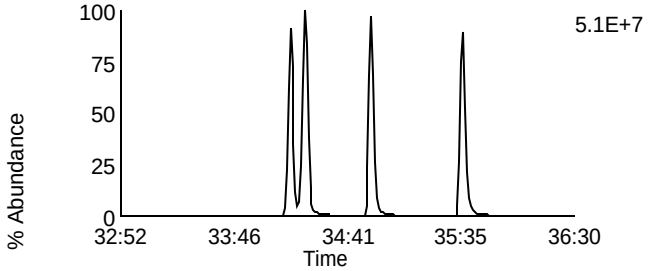
CAL CS5-7604-278 - BAL



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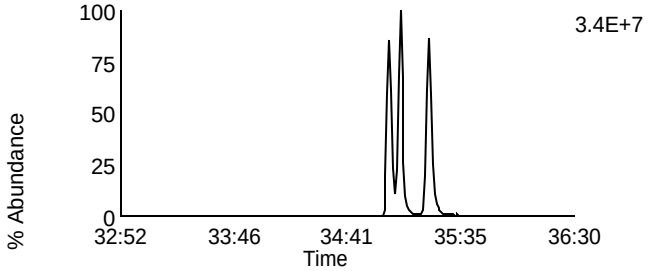
CAL CS5-7604-278 - BAL



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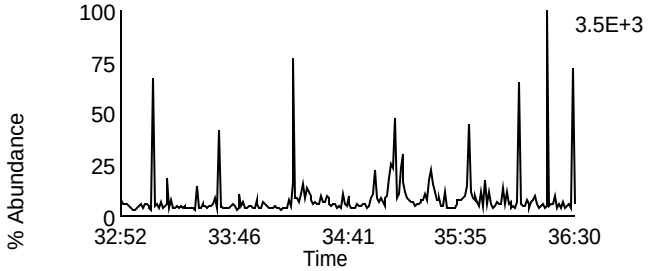
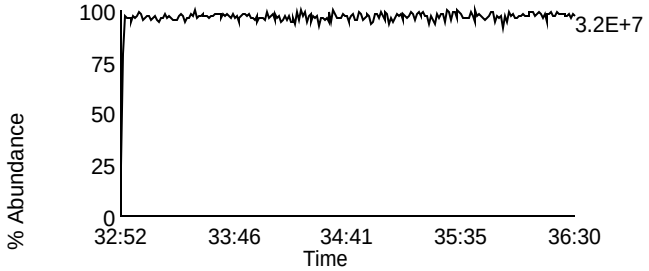
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G3 C3 - 380.976
CAL CS5-7604-278 - BAL

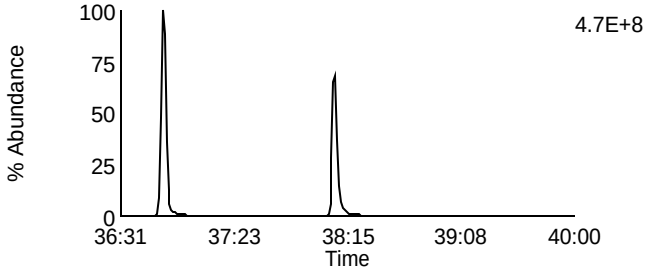


Homologue Group: Heptas

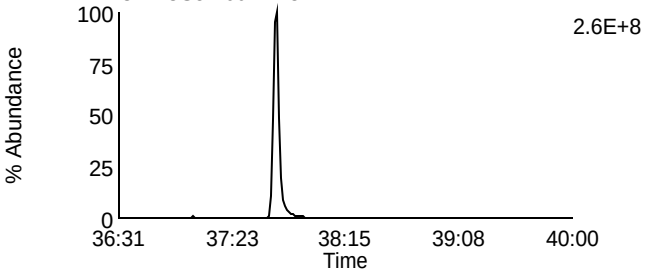
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G4 C3 - 407.7818
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C8 - 423.7767
CAL CS5-7604-278 - BAL



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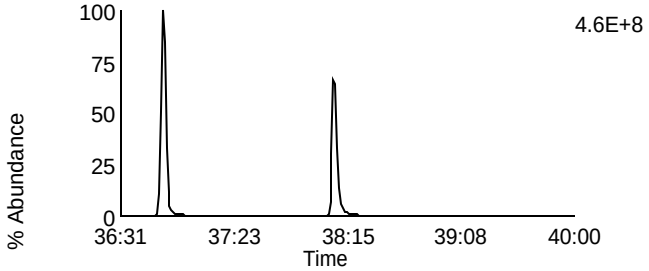
CAL CS5-7604-278 - BAL



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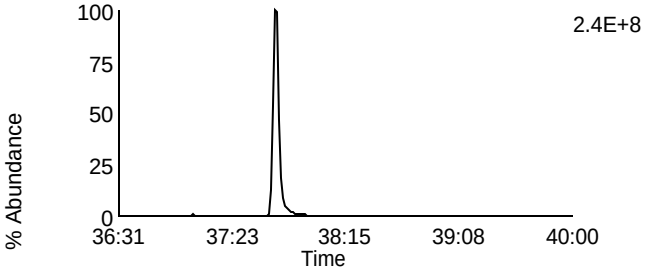
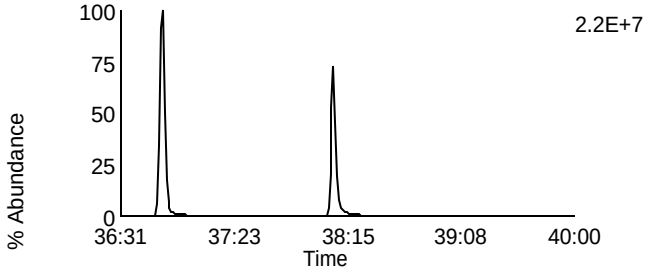
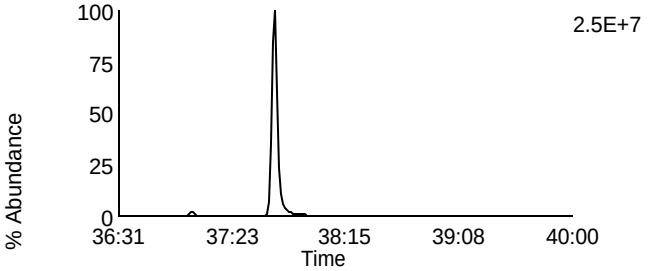
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C6 - 417.825
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C11 - 435.8169
CAL CS5-7604-278 - BAL



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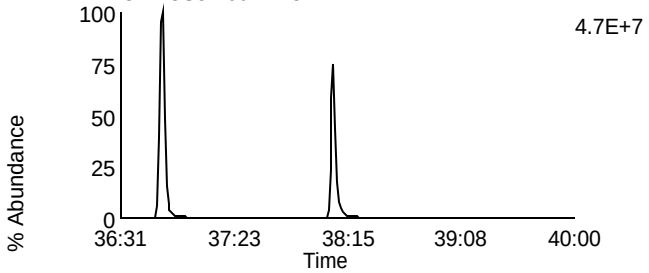
CAL CS5-7604-278 - BAL



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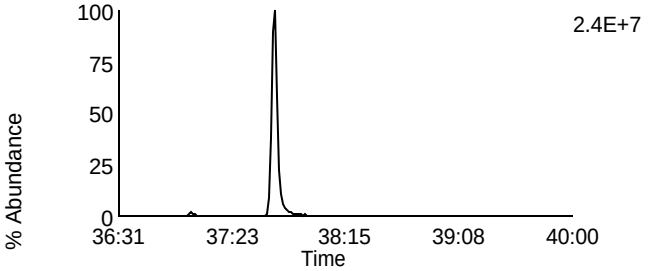
CAL CS5-7604-278 - BAL



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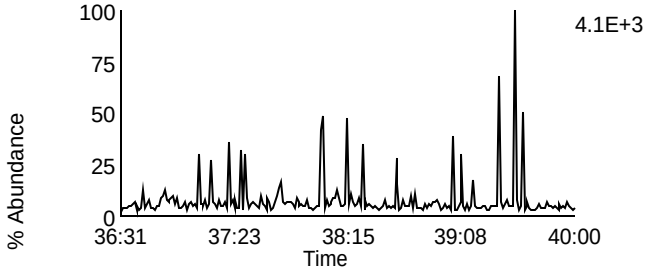
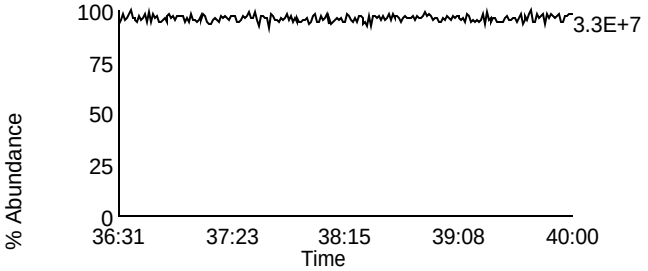
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G4 C1 - 380.976
CAL CS5-7604-278 - BAL

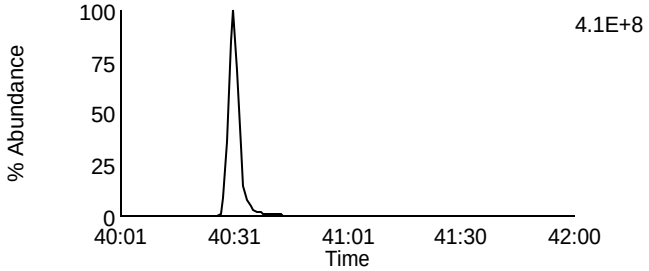


Homologue Group: Octas

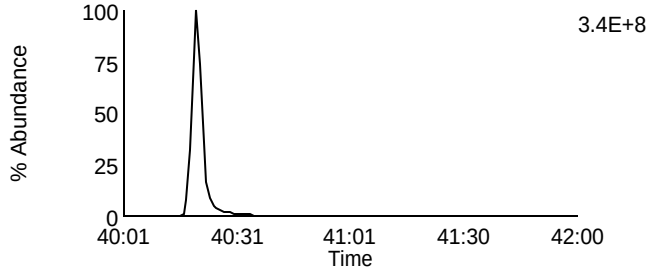
Data File Name: U140322B_07
Date Acquired: 3/22/2014
Sample Description: CAL CS5-7604-278 - BAL

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140322B_07 G5 C4 - 441.7428
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C8 - 457.7377
CAL CS5-7604-278 - BAL



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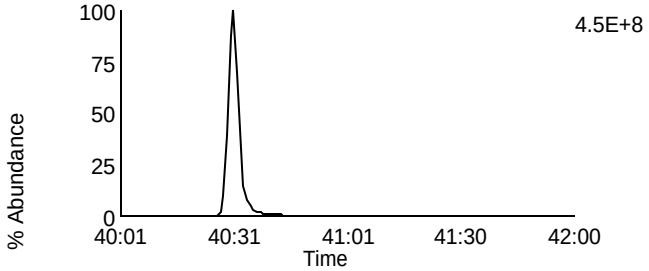
CAL CS5-7604-278 - BAL



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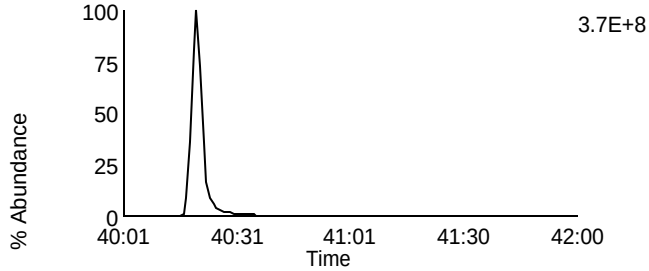
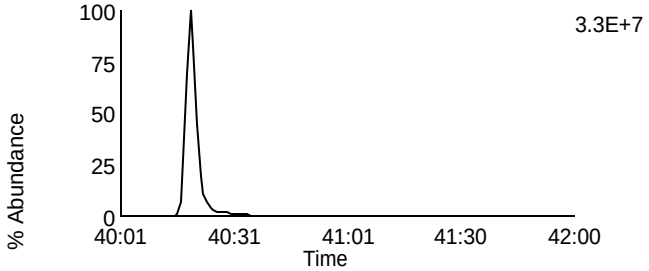
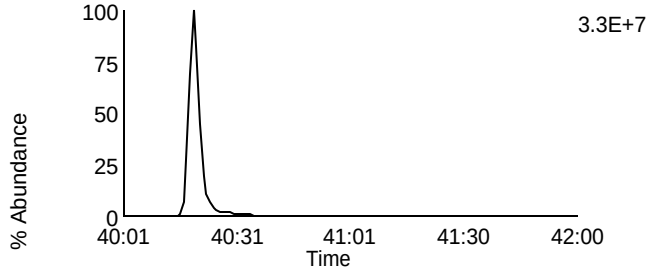
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C11 - 469.7779
CAL CS5-7604-278 - BAL



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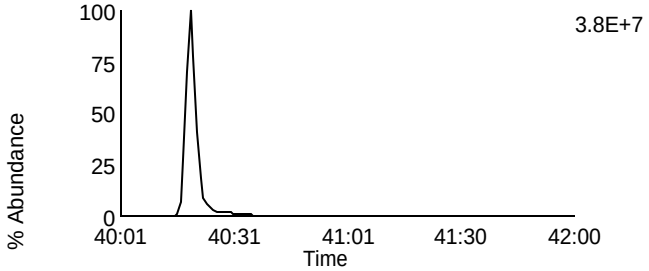
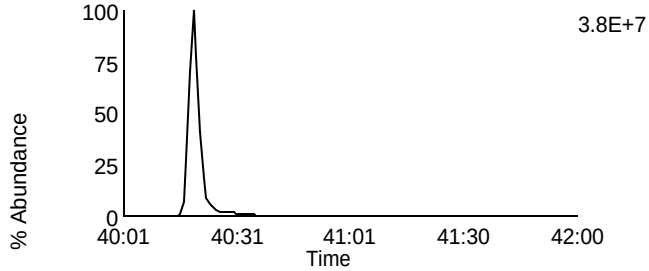
CAL CS5-7604-278 - BAL



Data File: U140322B_07 G5 C12 - 471.7749
CAL CS5-7604-278 - BAL



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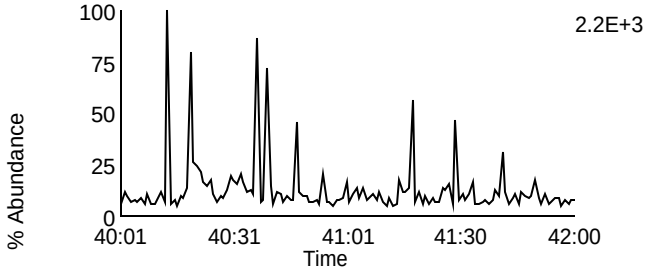
CAL CS5-7604-278 - BAL



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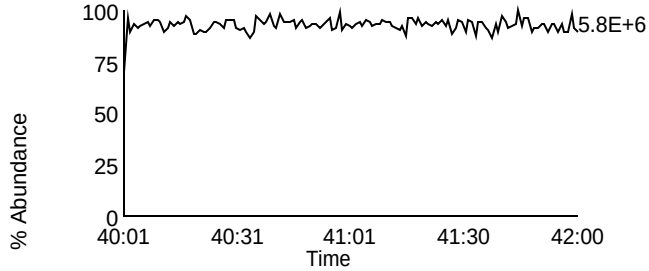
CAL CS5-7604-278 - BAL

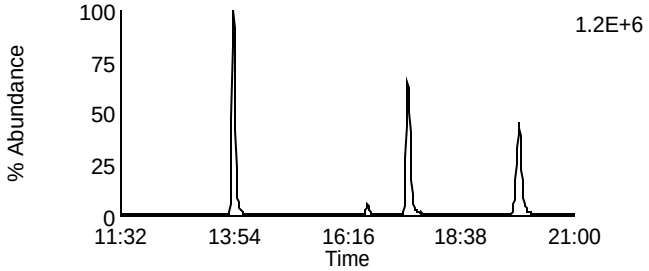


Homologue Group: Tetras

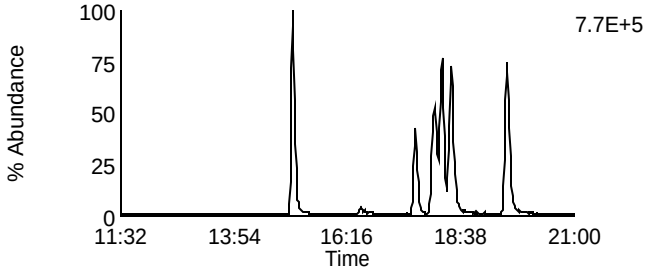
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P140321B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL TC



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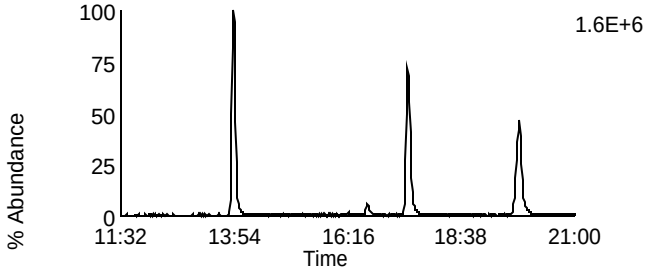
CAL CS3/CPM-7604-301 - BAL TC



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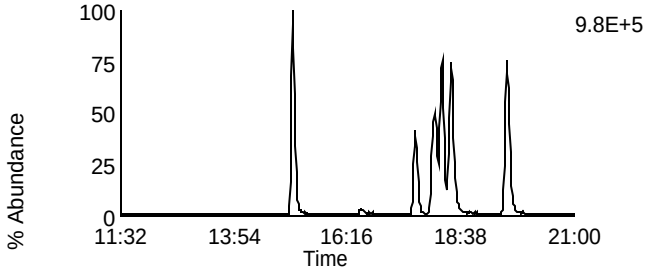
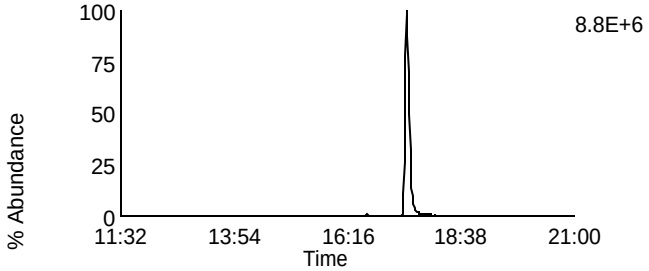
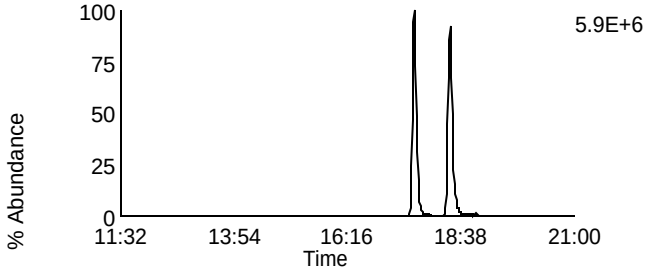
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL TC



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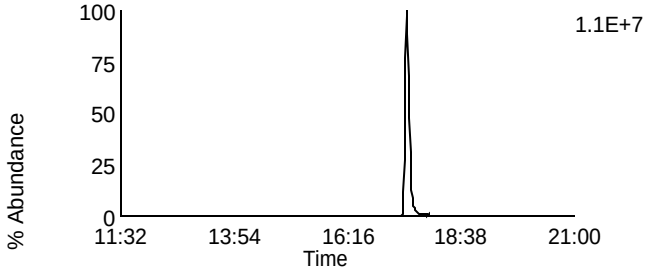
CAL CS3/CPM-7604-301 - BAL TC



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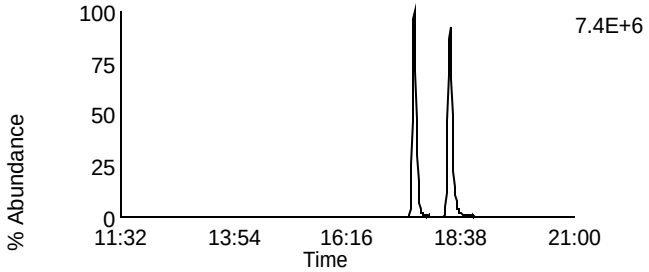
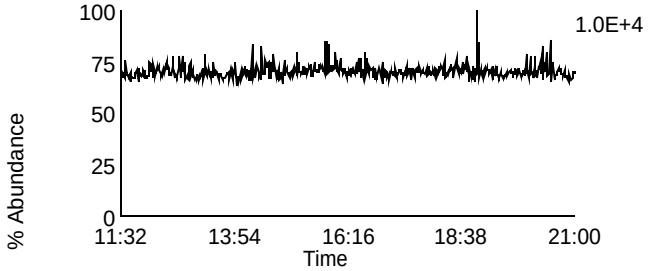
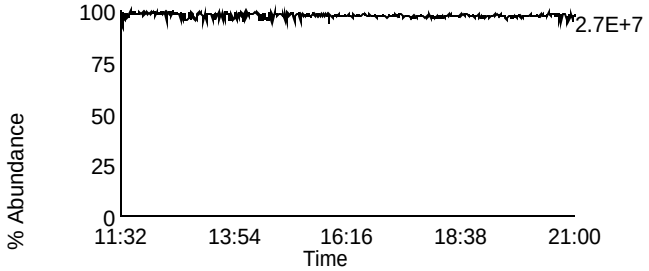
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL TC

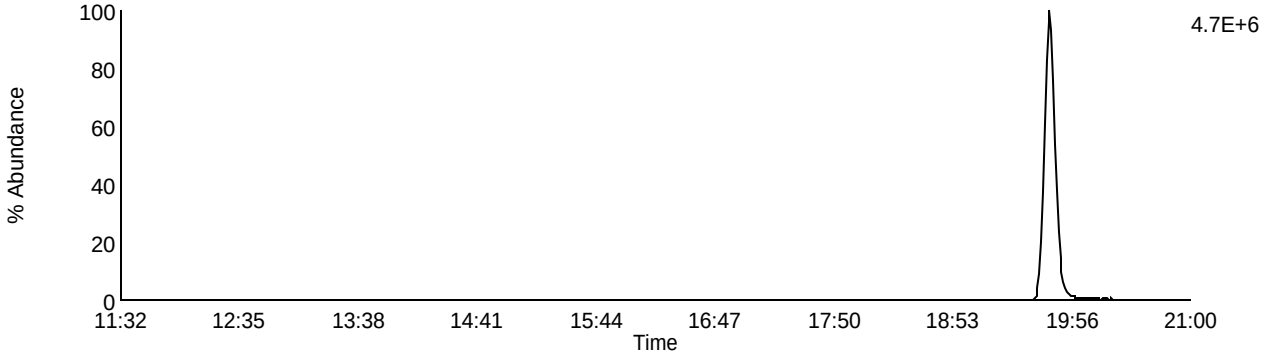


Homologue Group: Penta & Cleanup

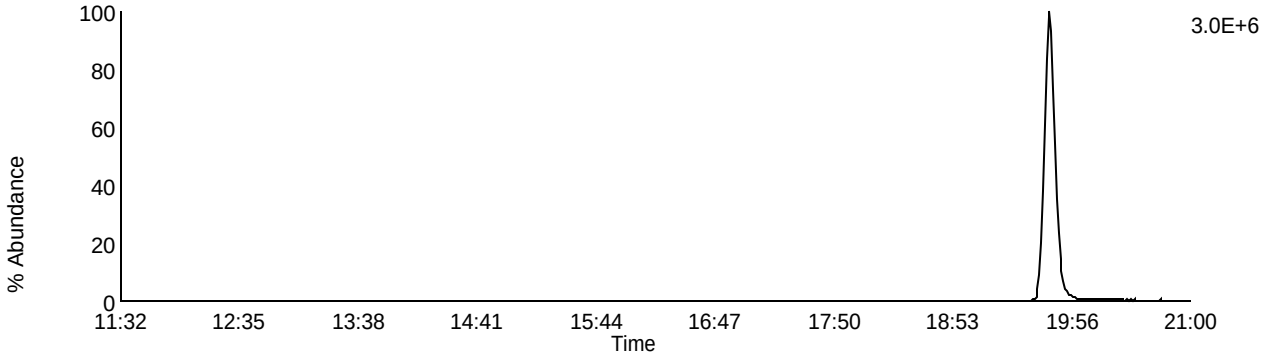
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

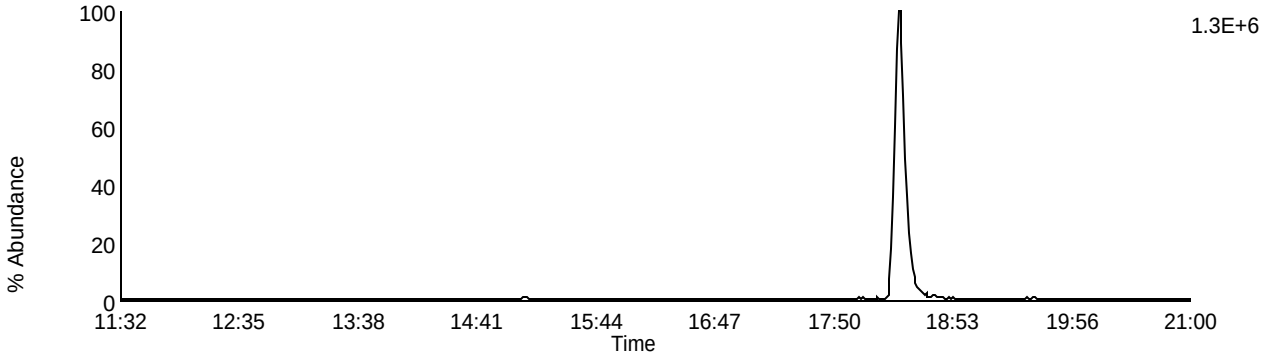
Data File: P140321B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL TC



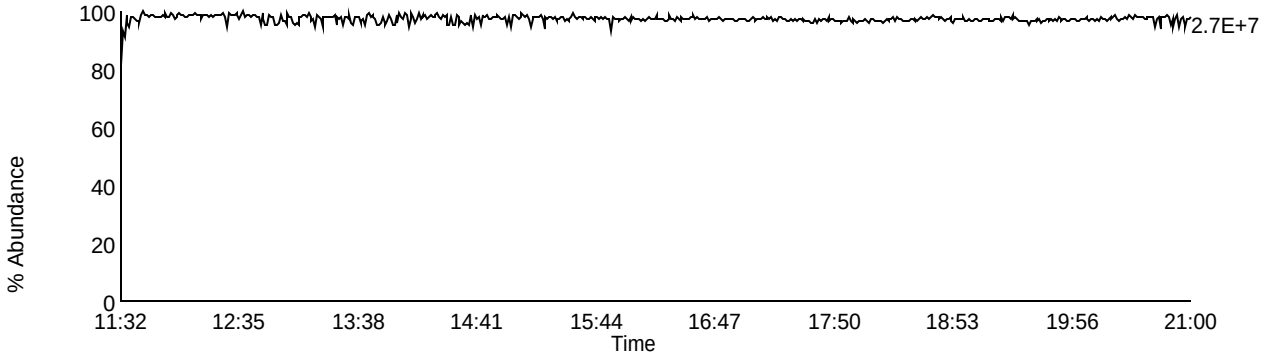
Data File: P140321B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL TC

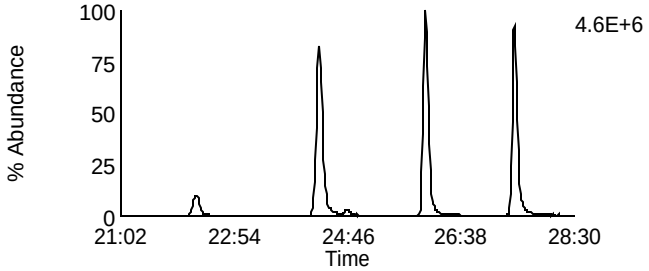


Homologue Group: Pentas

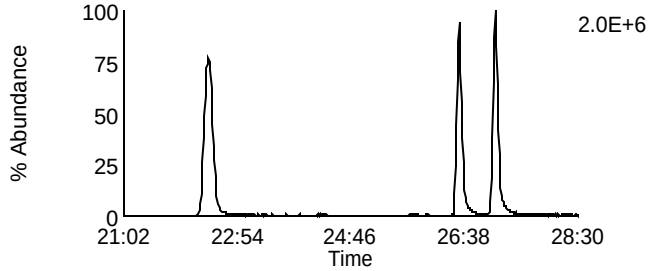
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

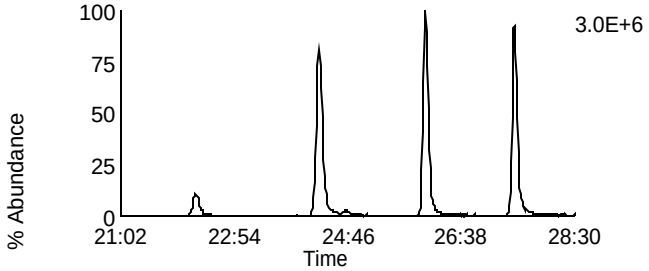
Data File: P140321B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL TC



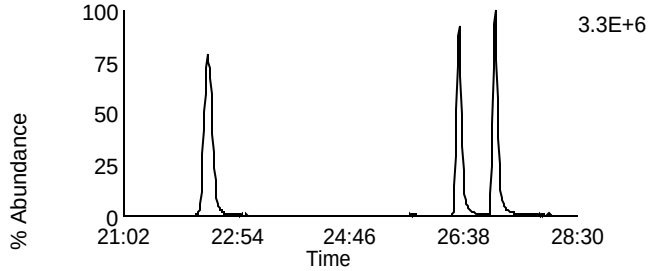
Data File: P140321B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL TC



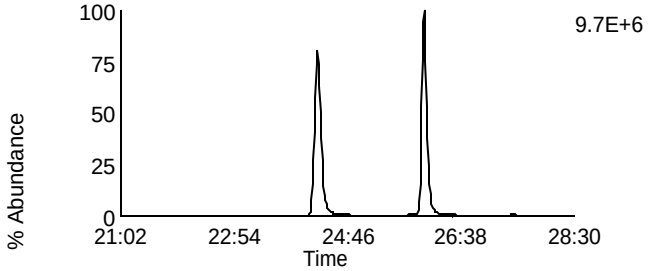
Data File: P140321B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL TC



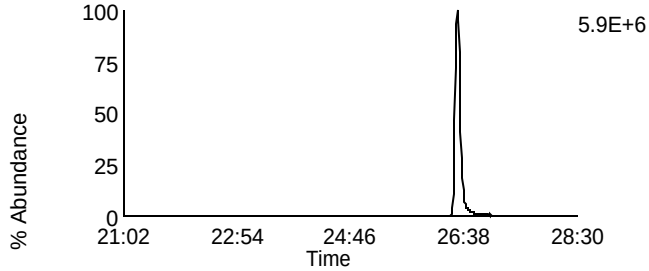
Data File: P140321B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL TC



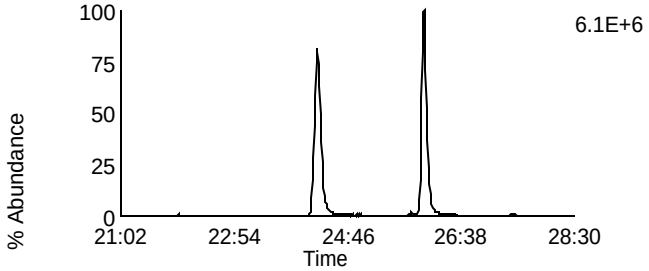
Data File: P140321B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL TC



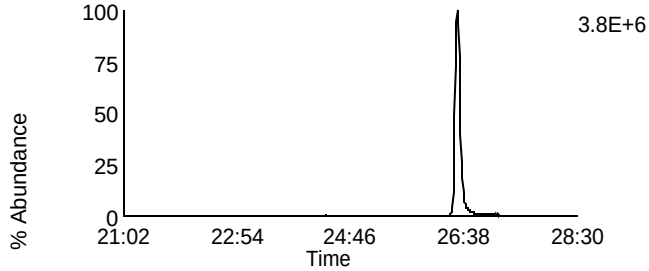
Data File: P140321B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL TC



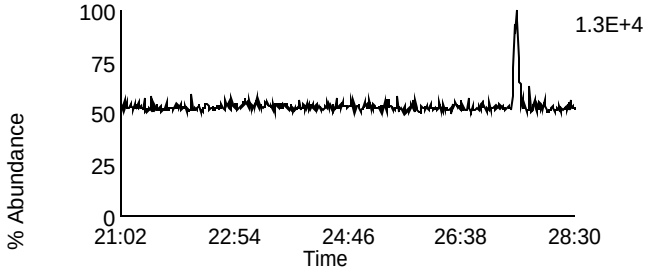
Data File: P140321B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL TC



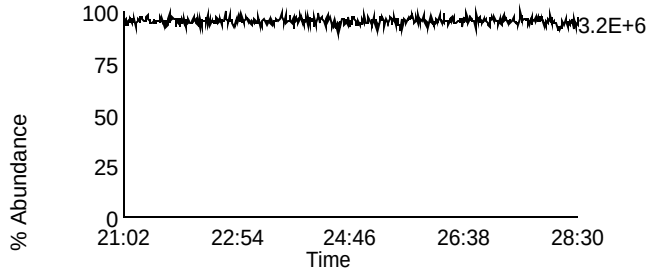
Data File: P140321B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL TC

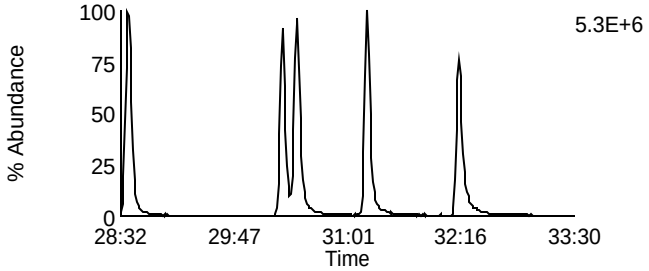


Homologue Group: Hexas

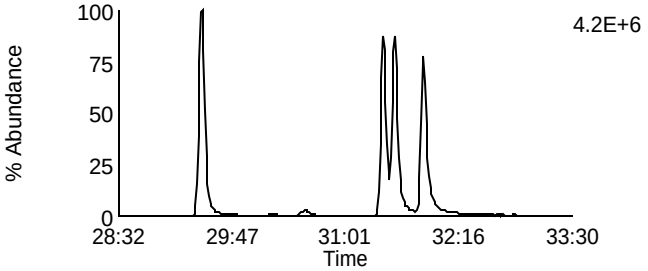
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

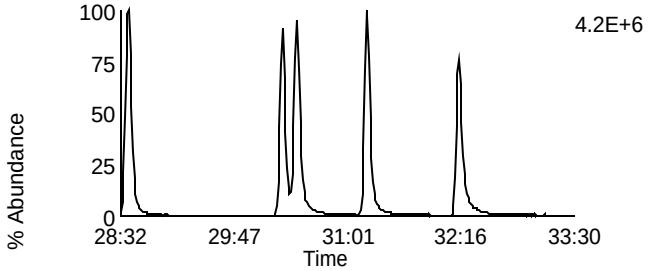
Data File: P140321B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL TC



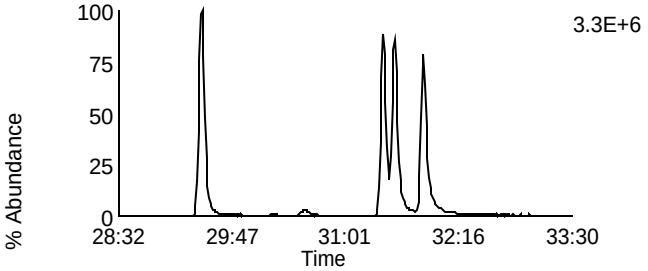
Data File: P140321B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL TC



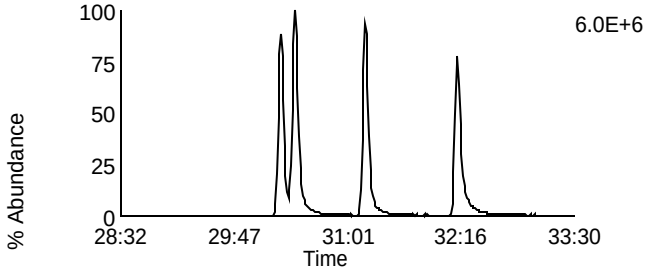
Data File: P140321B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL TC



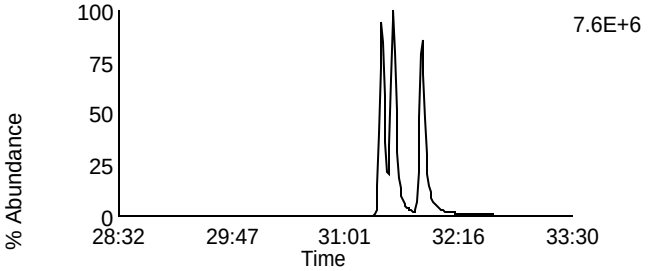
Data File: P140321B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL TC



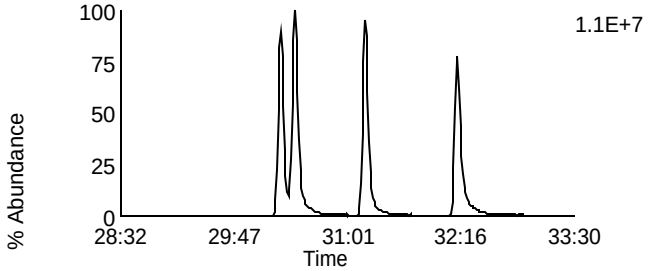
Data File: P140321B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL TC



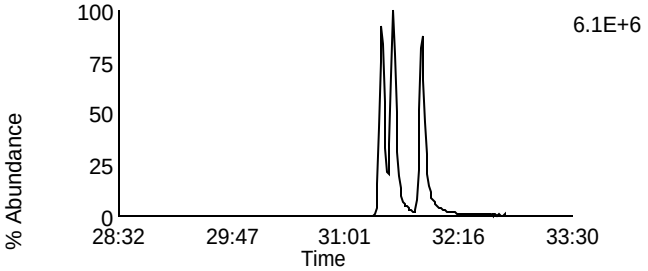
Data File: P140321B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL TC



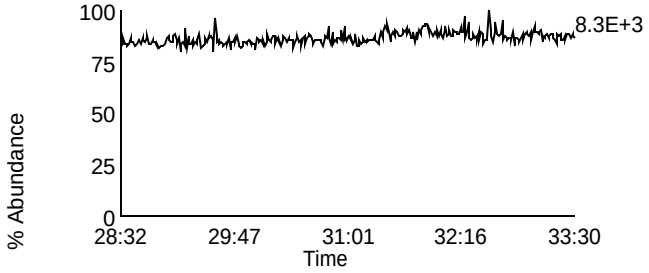
Data File: P140321B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL TC



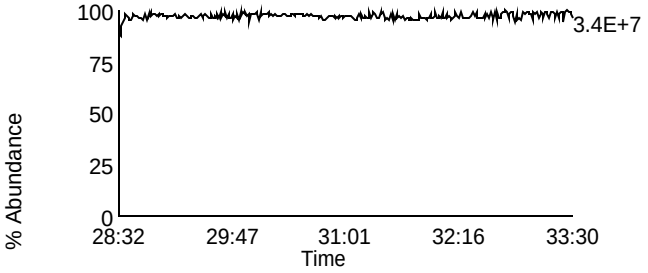
Data File: P140321B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL TC

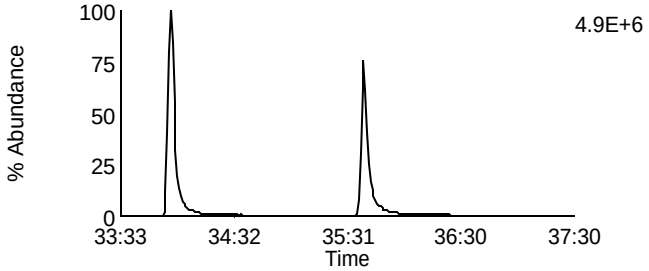


Homologue Group: Heptas

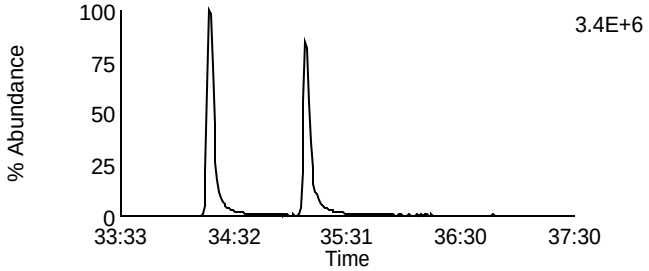
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

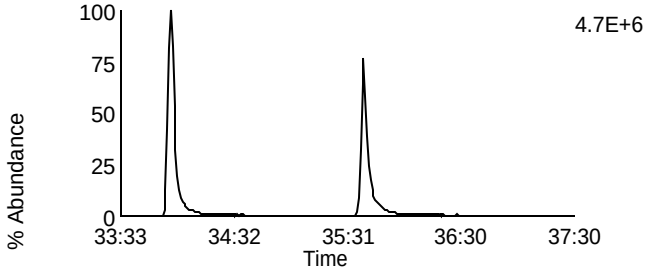
Data File: P140321B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL TC



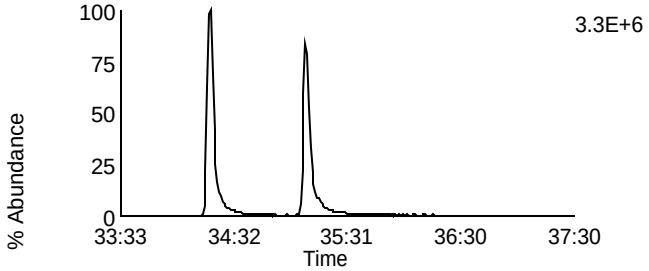
Data File: P140321B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL TC



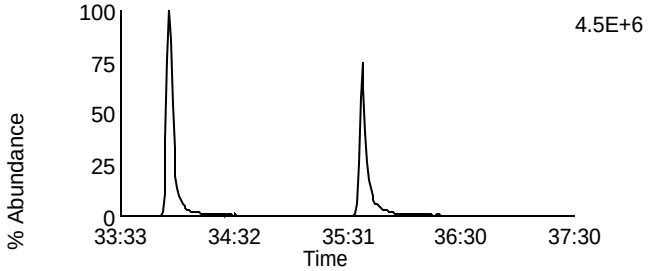
Data File: P140321B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL TC



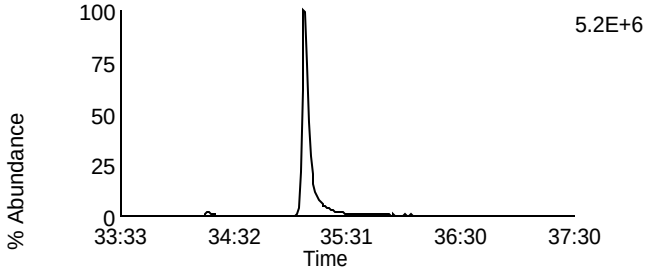
Data File: P140321B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL TC



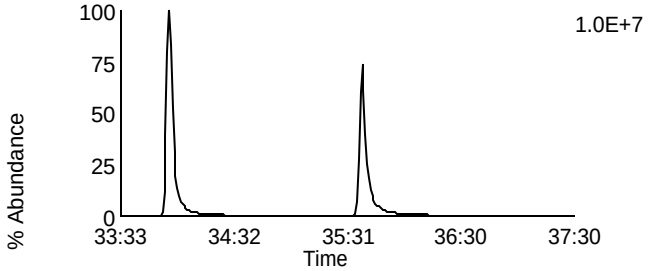
Data File: P140321B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL TC



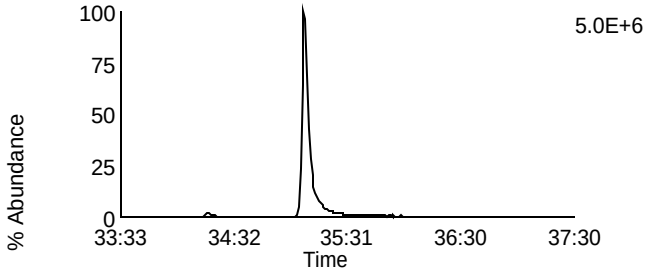
Data File: P140321B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL TC



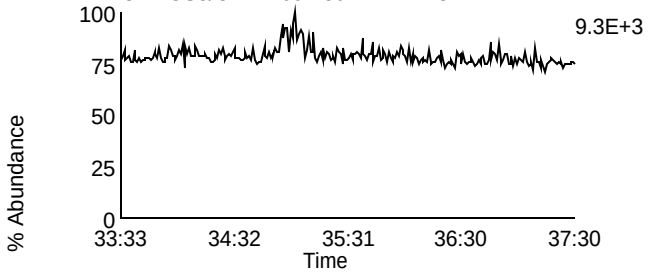
Data File: P140321B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL TC



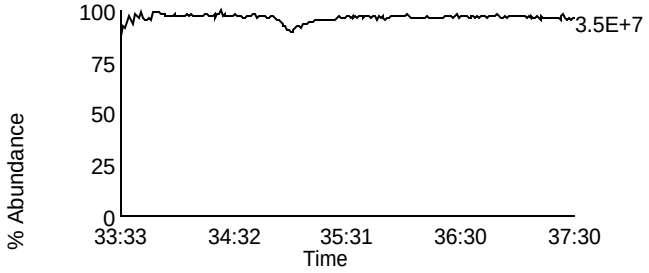
Data File: P140321B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL TC

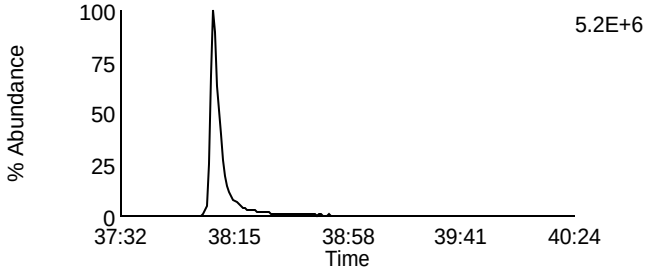


Homologue Group: Octas

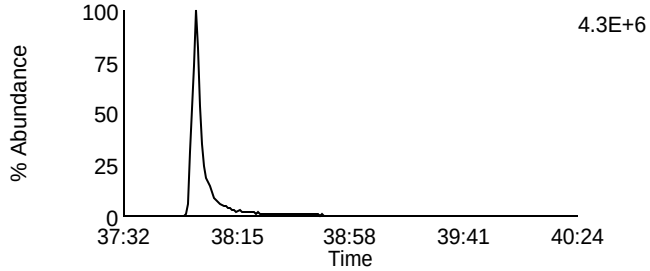
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

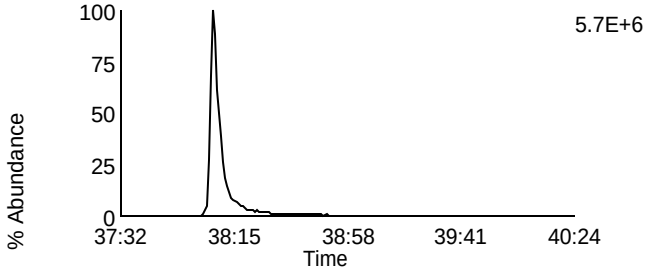
Data File: P140321B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL TC



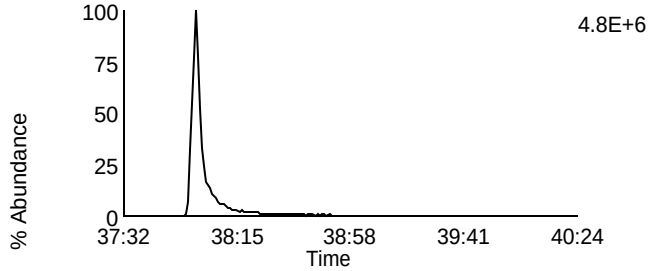
Data File: P140321B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL TC



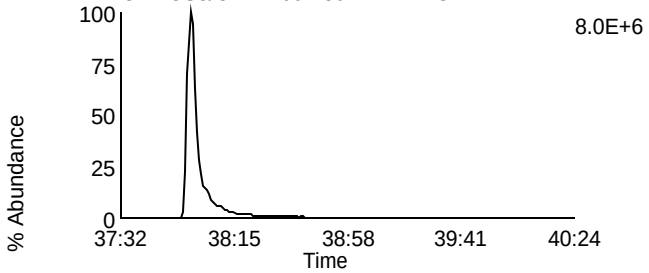
Data File: P140321B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL TC



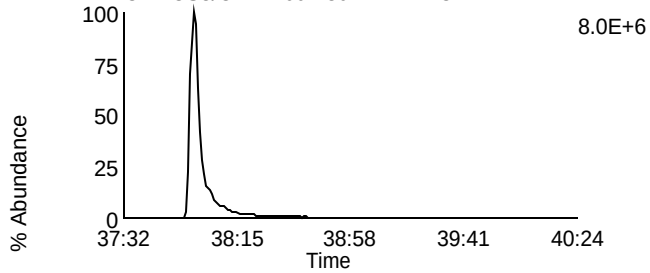
Data File: P140321B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL TC



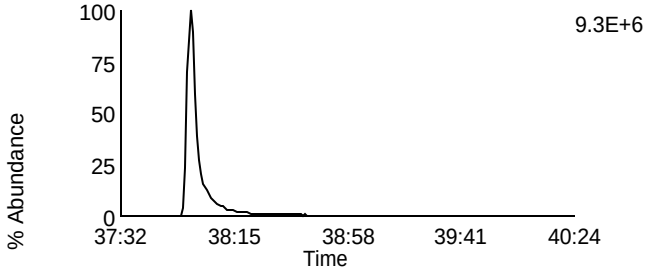
Data File: P140321B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL TC



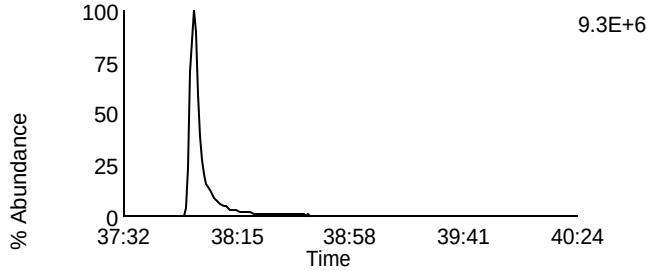
Data File: P140321B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL TC



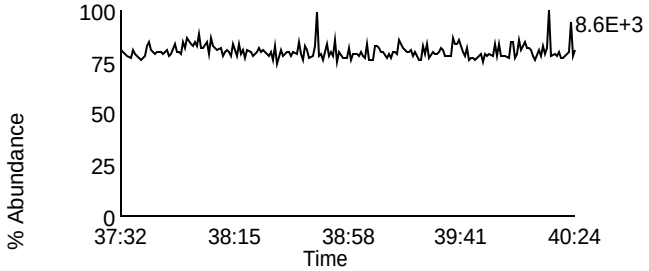
Data File: P140321B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL TC



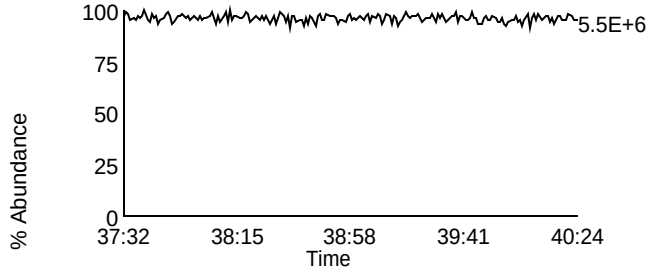
Data File: P140321B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL TC

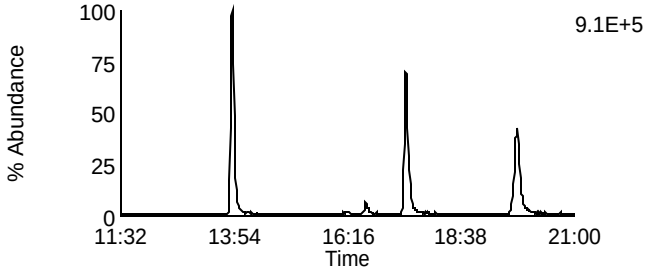


Homologue Group: Tetras

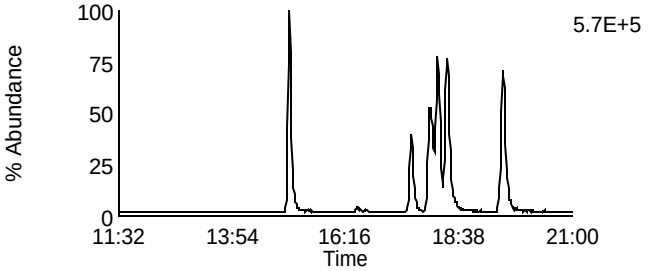
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

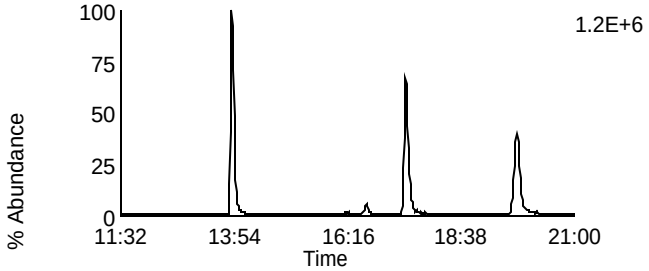
Data File: P140322B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL PFK TC



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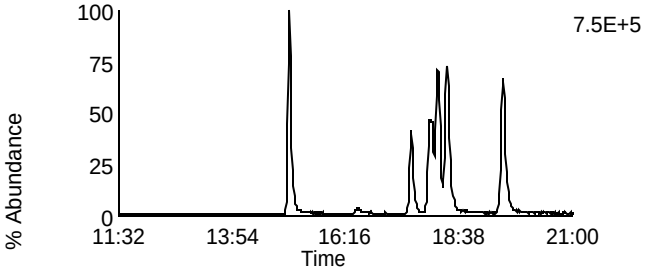
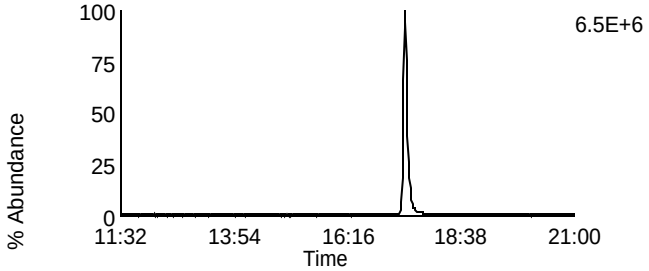
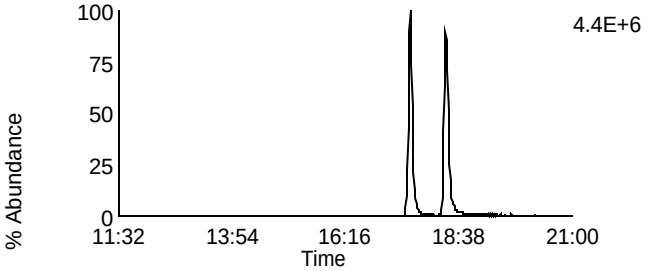
CAL CS3/CPM-7604-301 - BAL PFK TC



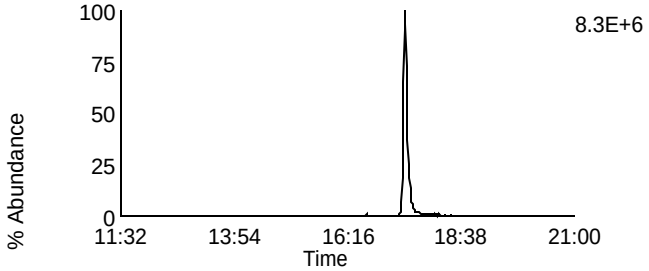
Data File: P140322B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL PFK TC



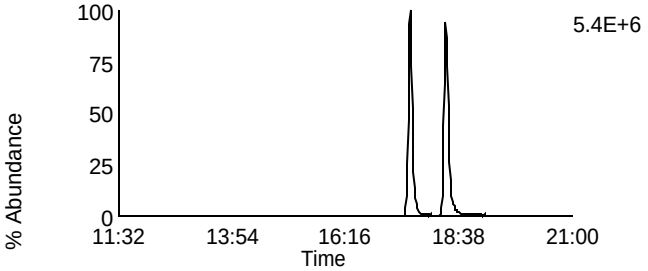
Data File: P140322B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL PFK TC



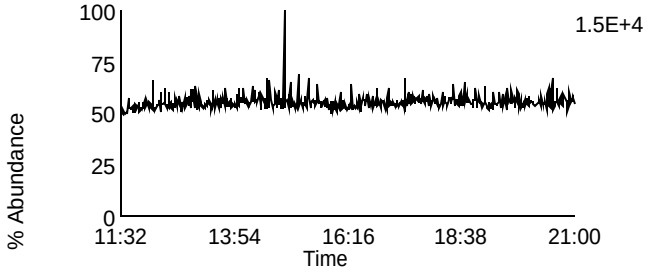
Data File: P140322B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL PFK TC



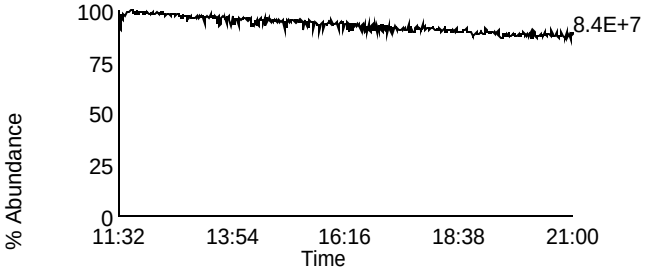
Data File: P140322B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

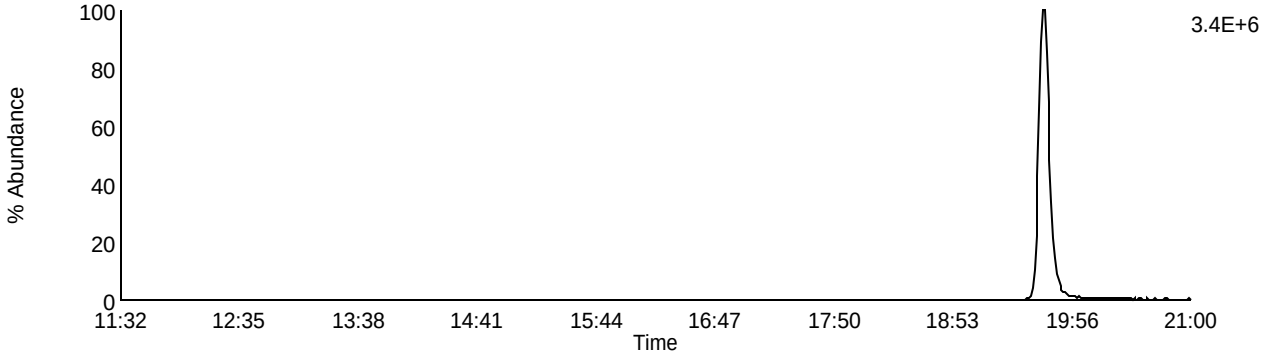


Homologue Group: Penta & Cleanup

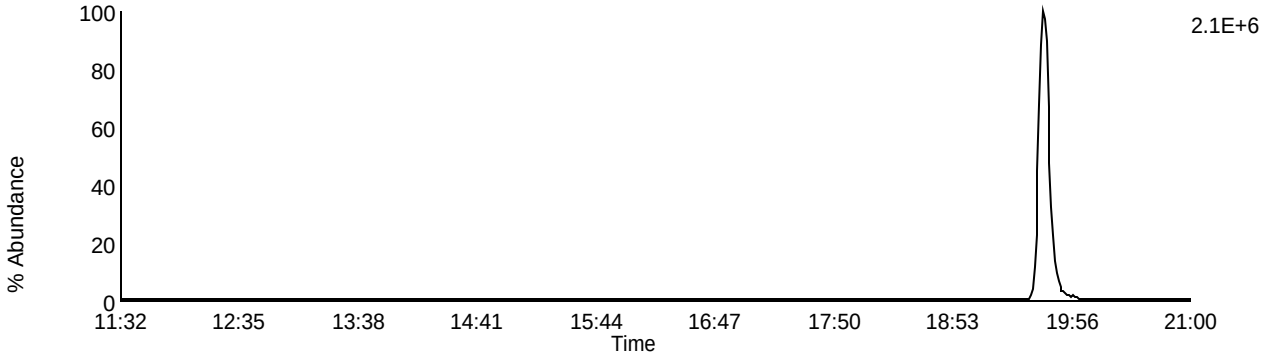
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

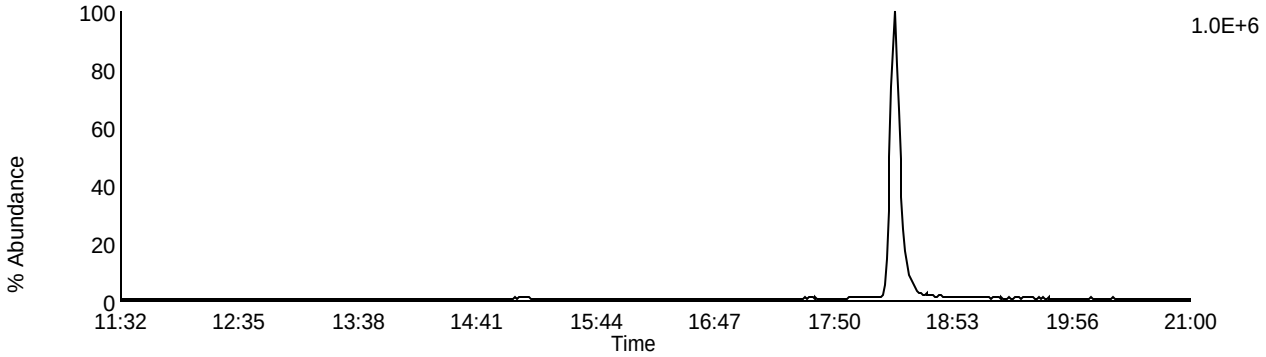
Data File: P140322B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL PFK TC



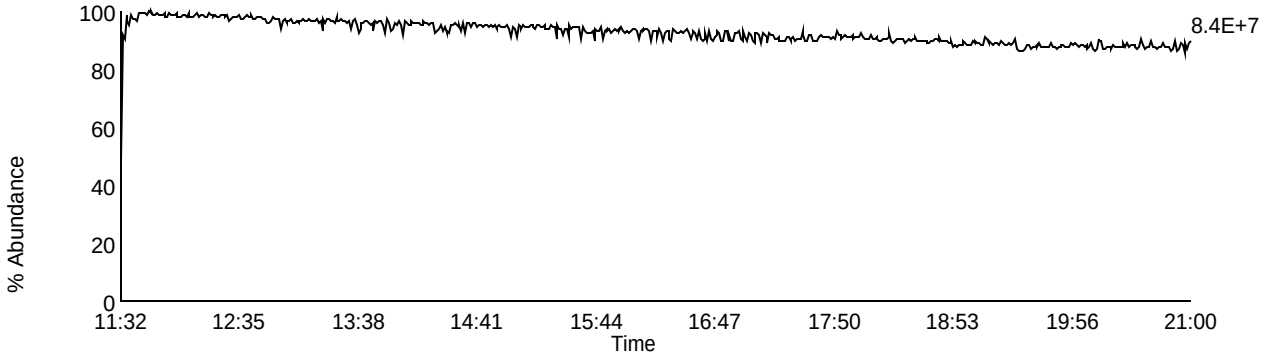
Data File: P140322B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

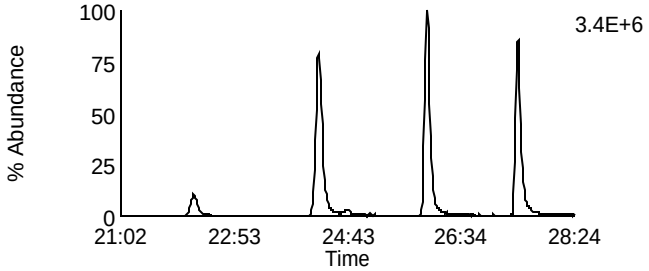


Homologue Group: Pentas

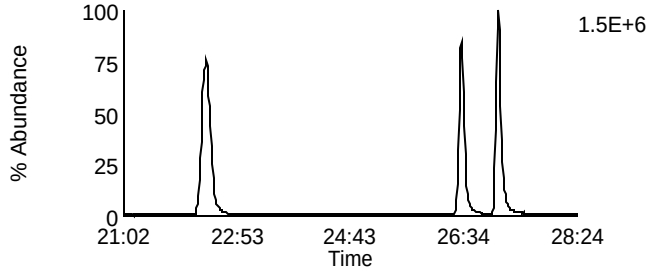
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

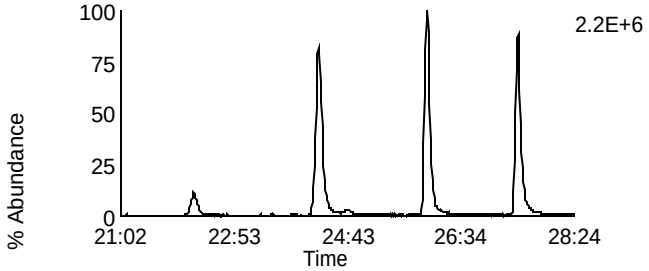
Data File: P140322B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL PFK TC



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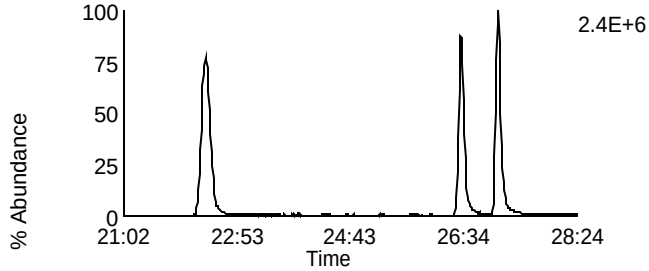
CAL CS3/CPM-7604-301 - BAL PFK TC



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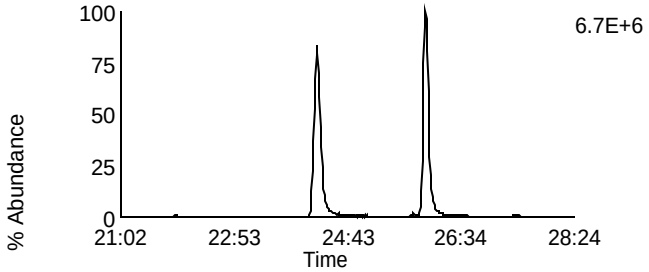
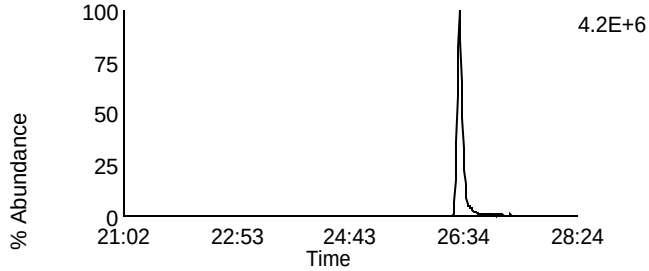
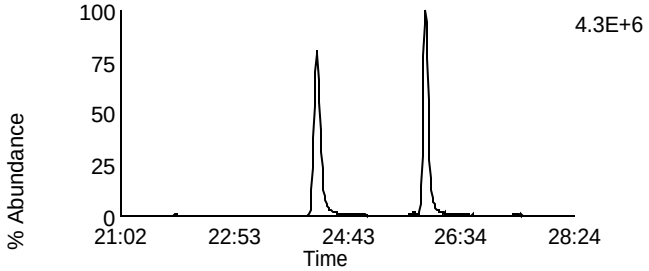
CAL CS3/CPM-7604-301 - BAL PFK TC



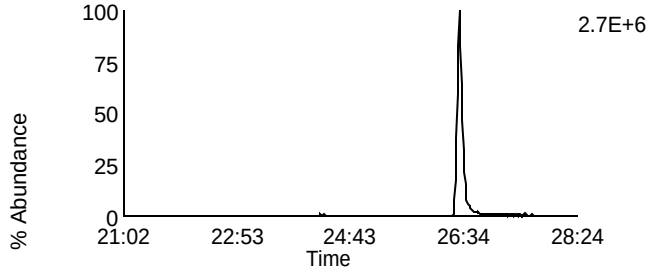
Data File: P140322B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL PFK TC



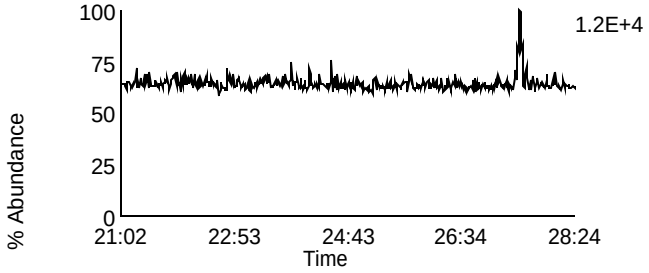
Data File: P140322B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL PFK TC



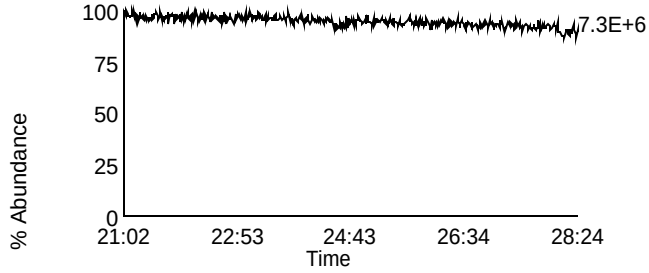
Data File: P140322B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

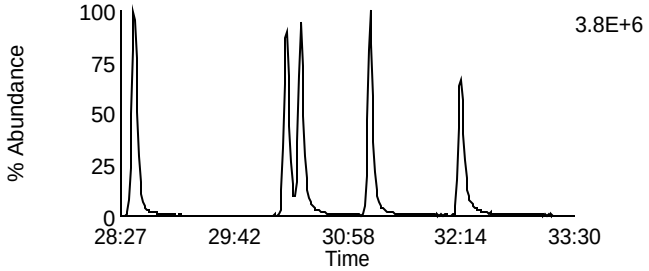


Homologue Group: Hexas

Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P140322B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL PFK TC



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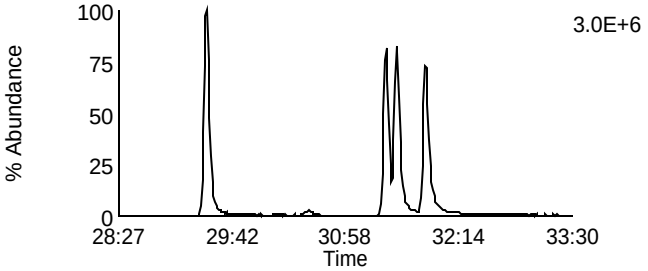
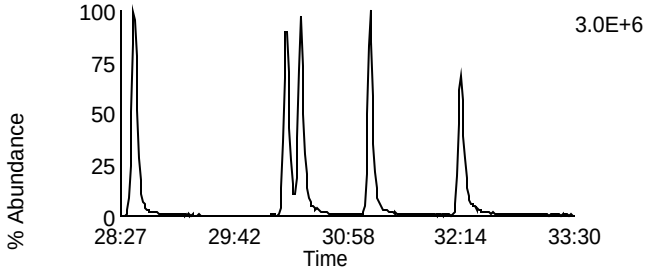
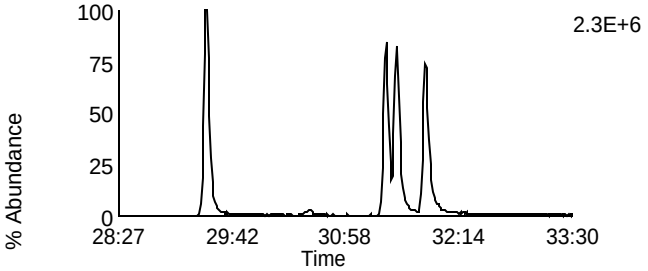
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL PFK TC



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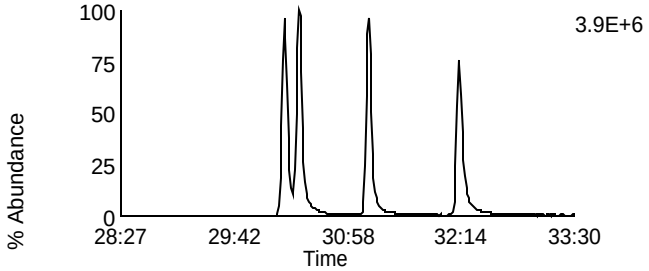
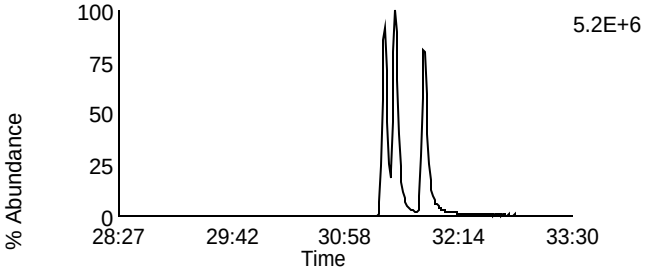
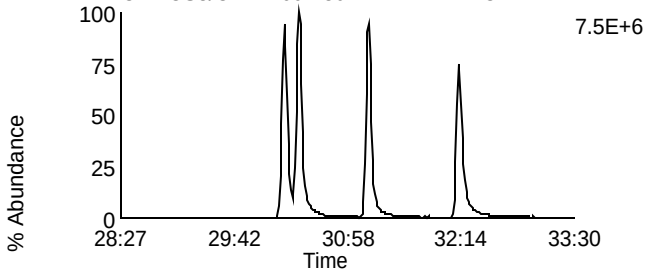
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL PFK TC



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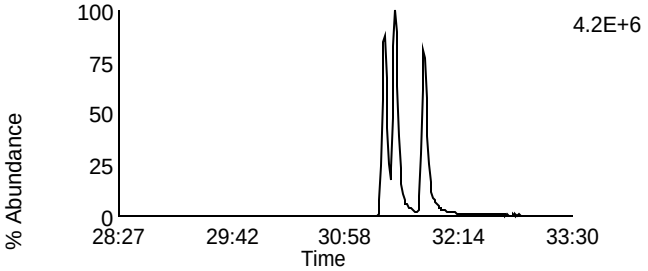
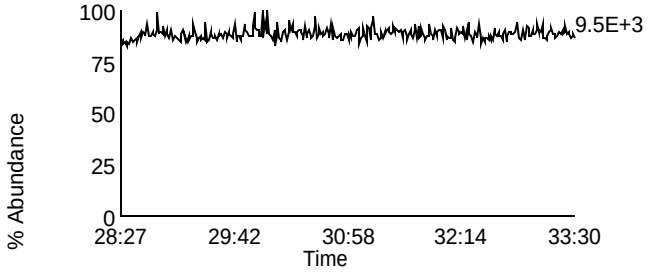
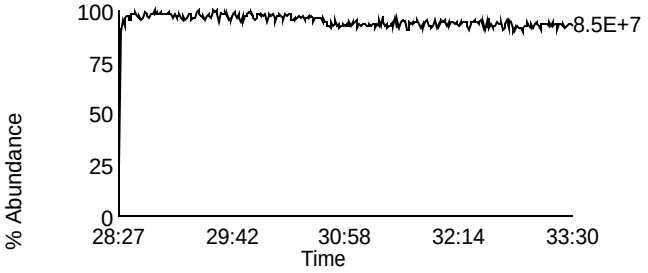
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL PFK TC

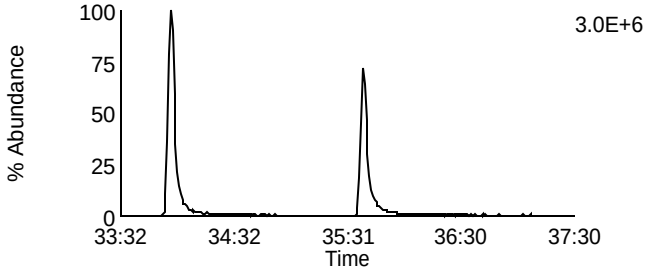


Homologue Group: Heptas

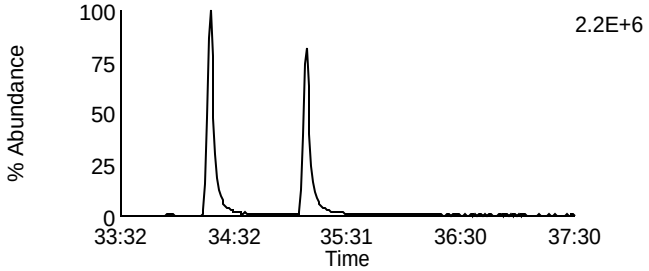
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

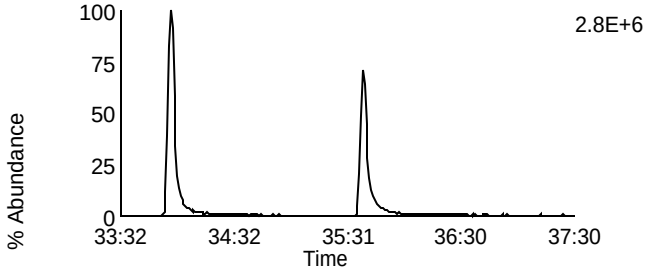
Data File: P140322B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL PFK TC



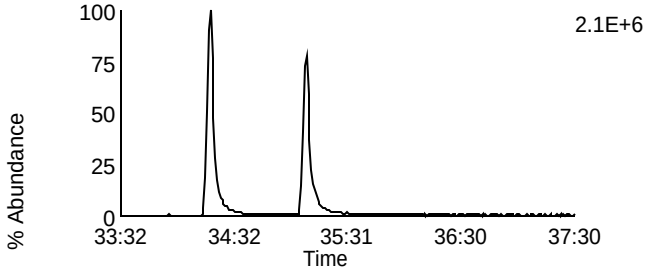
Data File: P140322B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL PFK TC



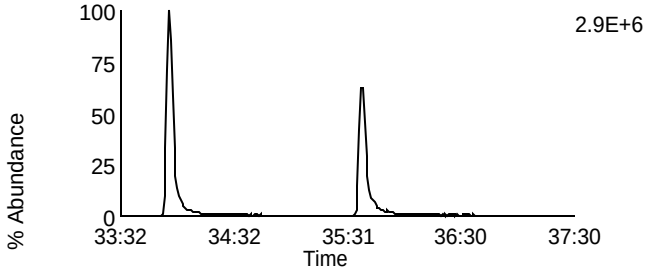
Data File: P140322B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL PFK TC



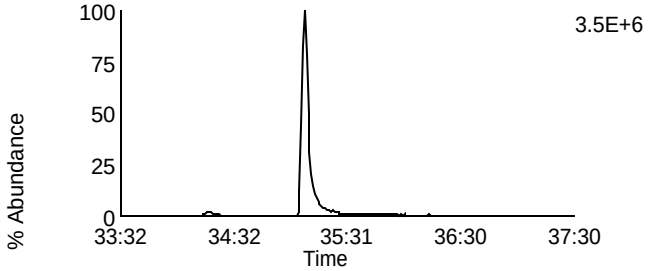
Data File: P140322B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL PFK TC



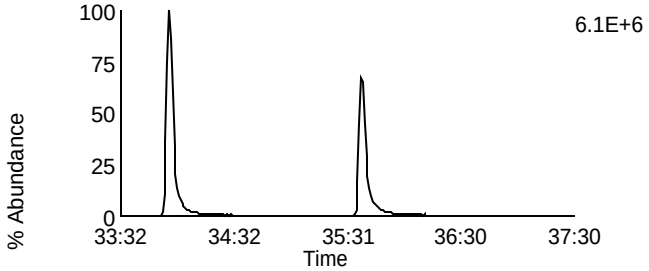
Data File: P140322B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL PFK TC



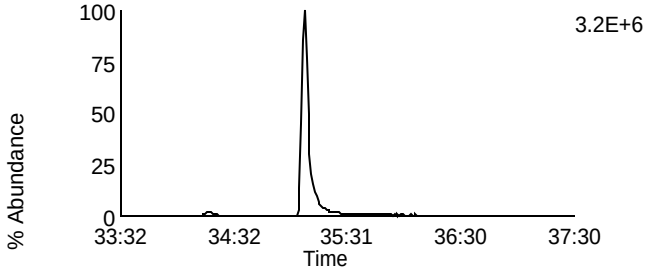
Data File: P140322B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL PFK TC



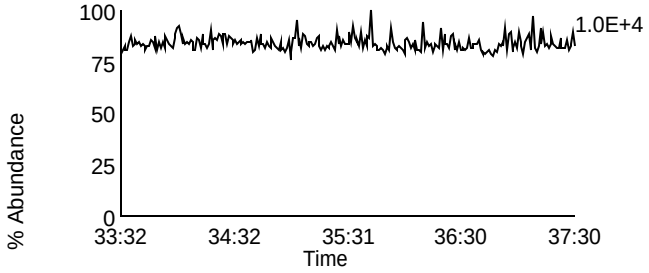
Data File: P140322B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL PFK TC



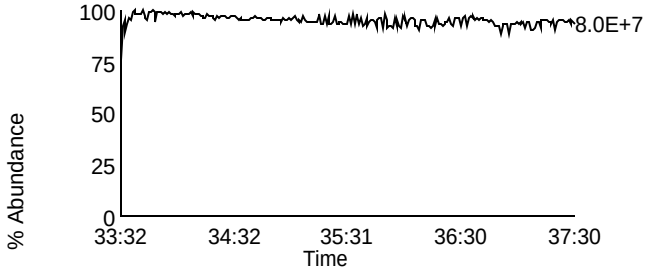
Data File: P140322B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL PFK TC

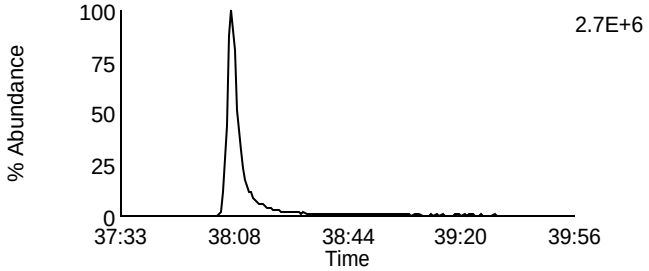


Homologue Group: Octas

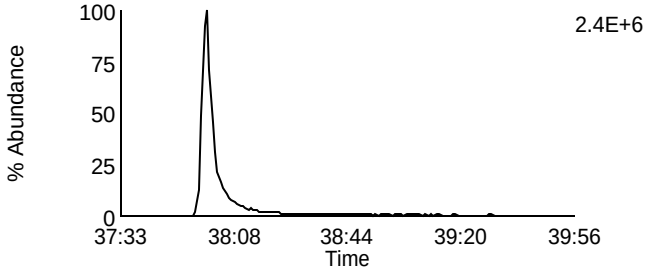
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR09 (P)

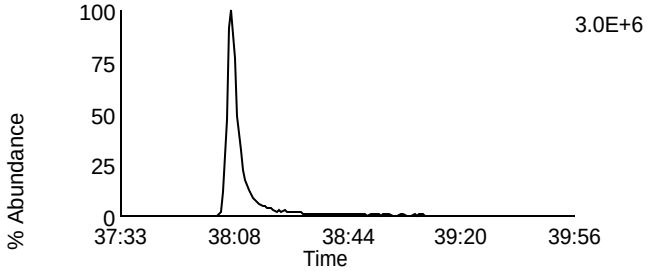
Data File: P140322B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL PFK TC



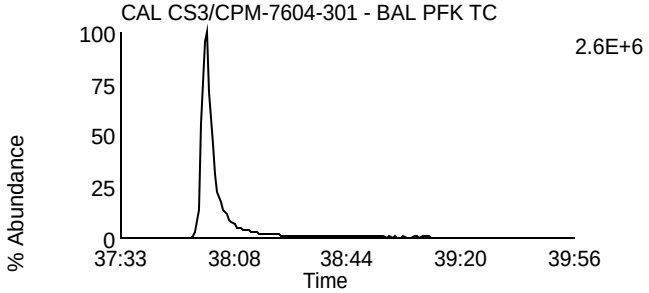
Data File: P140322B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL PFK TC



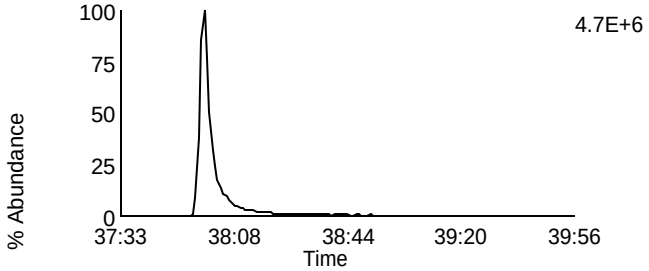
Data File: P140322B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL PFK TC



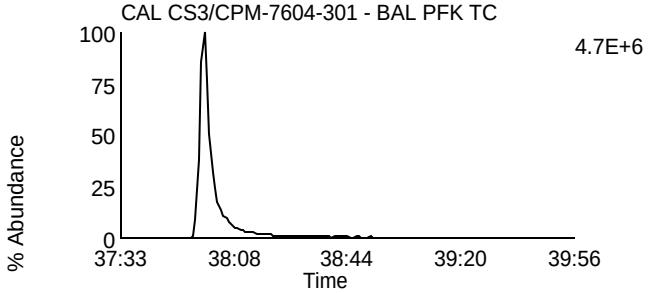
Data File: P140322B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL PFK TC



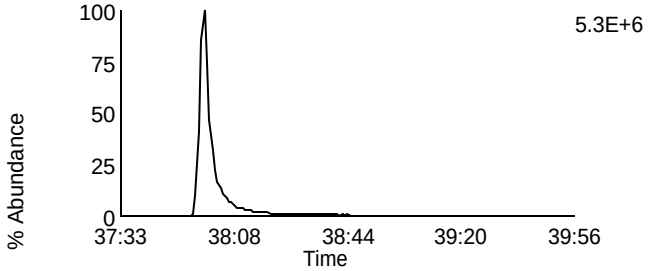
Data File: P140322B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL PFK TC



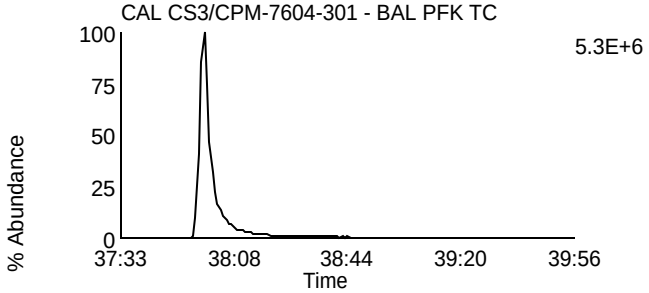
Data File: P140322B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL PFK TC



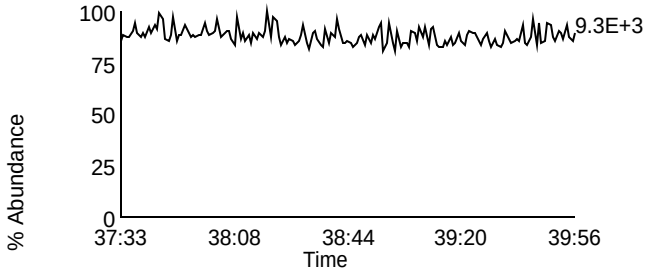
Data File: P140322B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL PFK TC



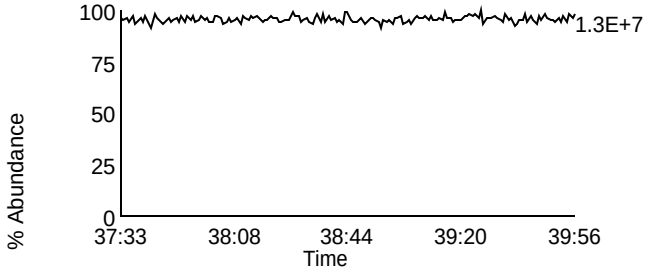
Data File: P140322B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL PFK TC

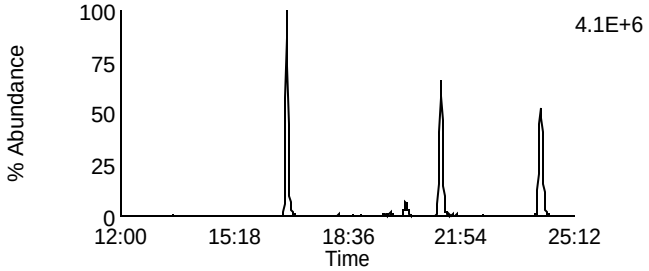


Homologue Group: Tetras

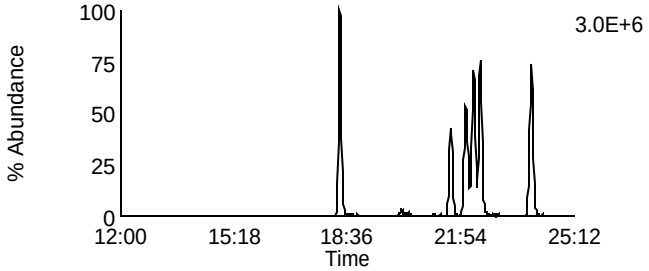
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

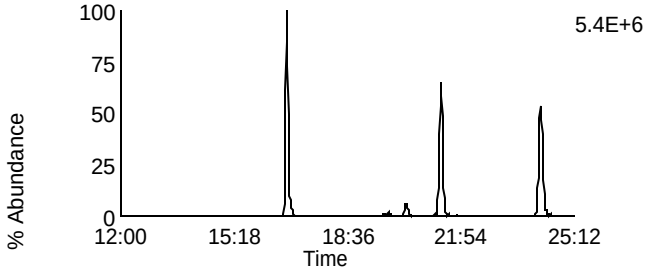
Data File: U140328B_02 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL set windows TC



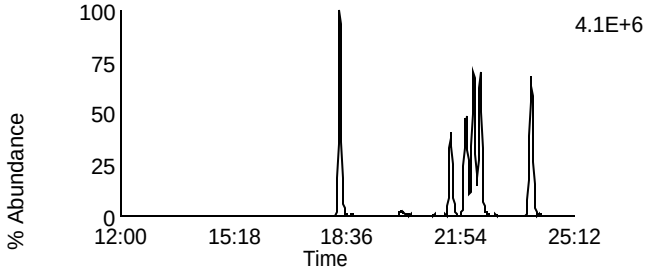
Data File: U140328B_02 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL set windows TC



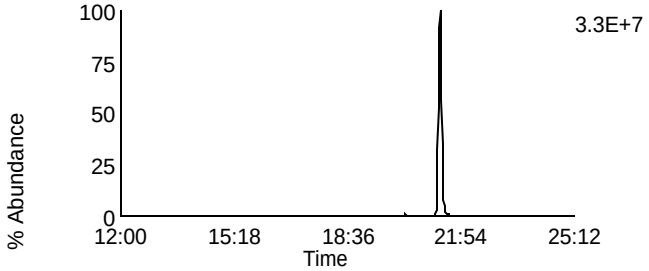
Data File: U140328B_02 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL set windows TC



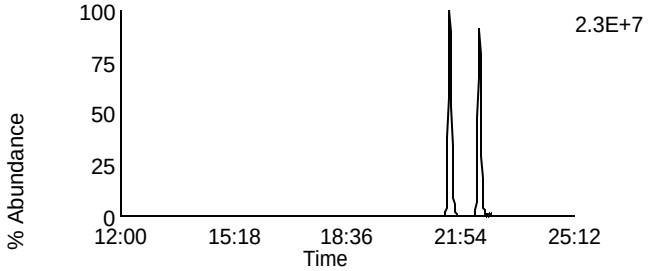
Data File: U140328B_02 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL set windows TC



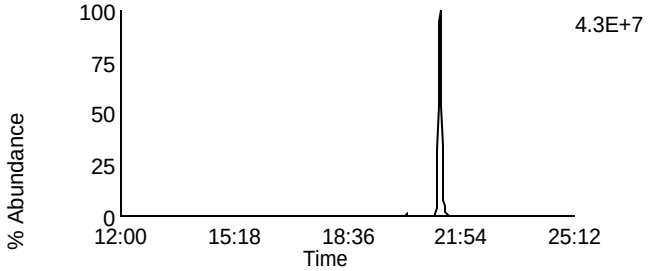
Data File: U140328B_02 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL set windows TC



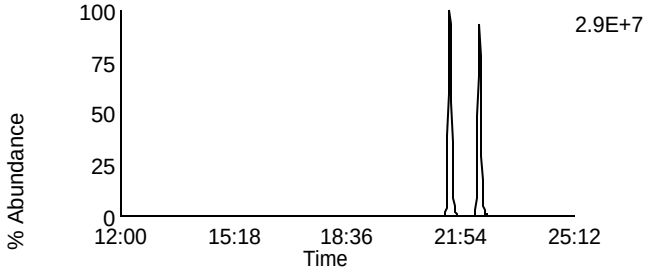
Data File: U140328B_02 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL set windows TC



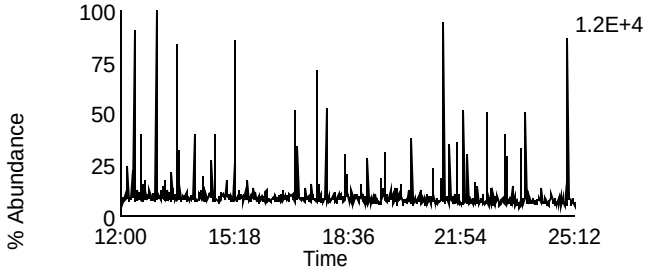
Data File: U140328B_02 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL set windows TC



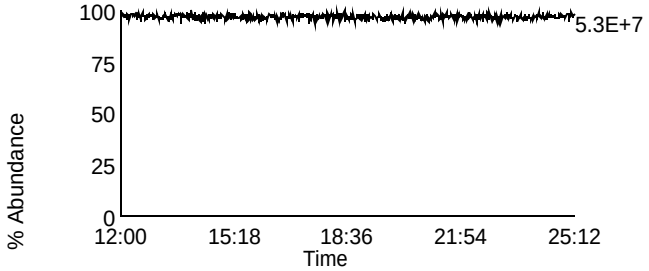
Data File: U140328B_02 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

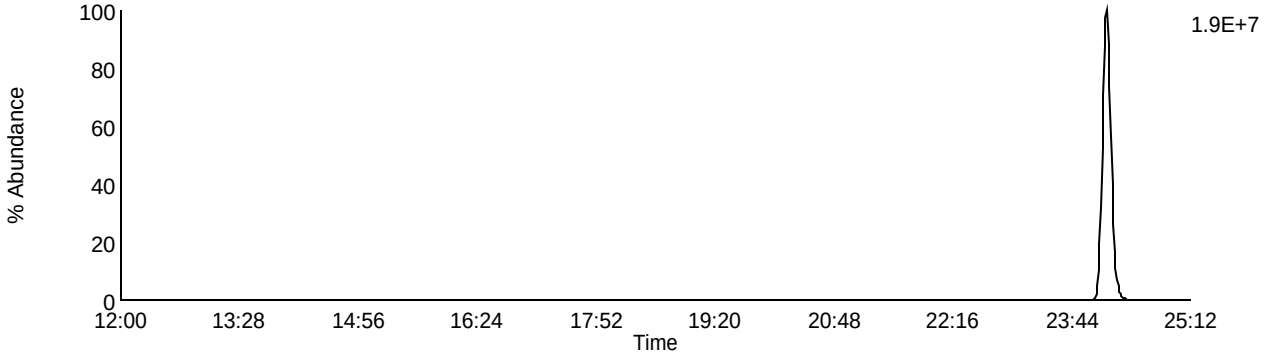


Homologue Group: Penta & Cleanup

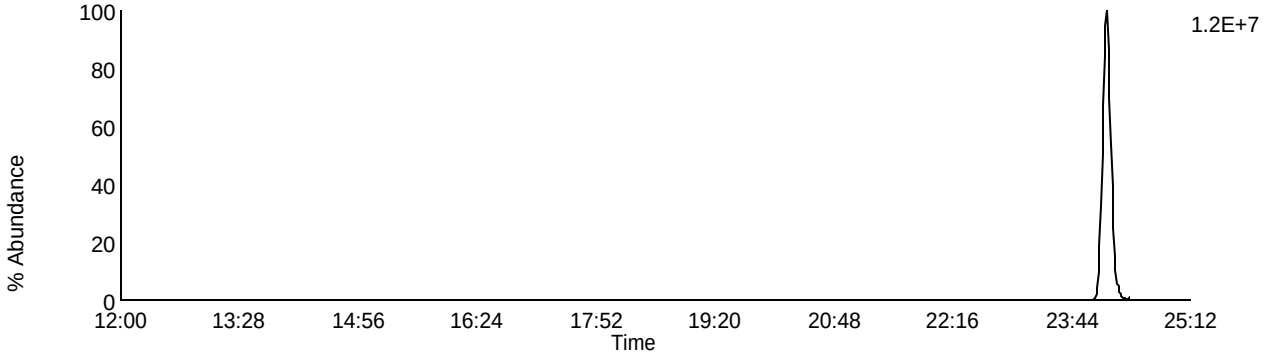
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

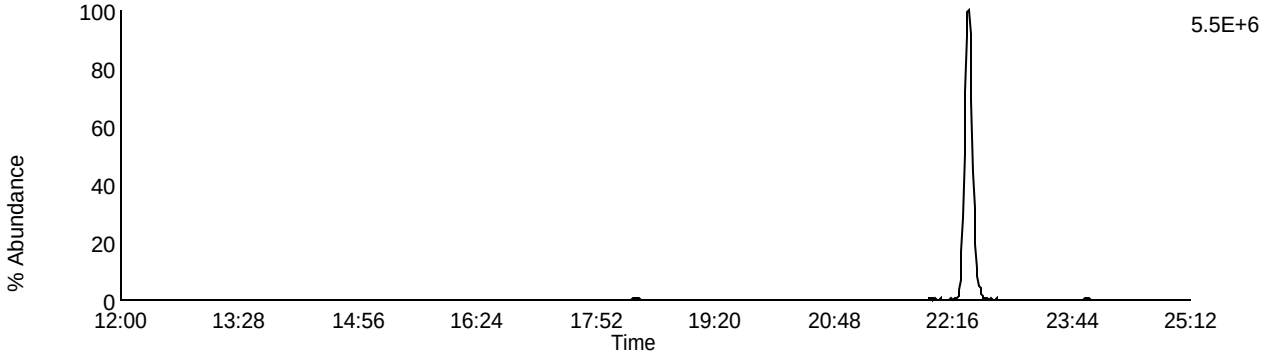
Data File: U140328B_02 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL set windows TC



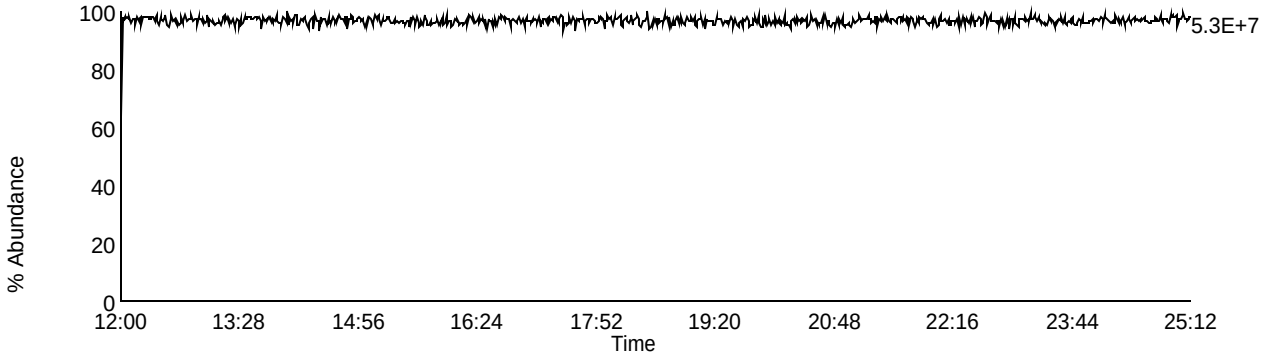
Data File: U140328B_02 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

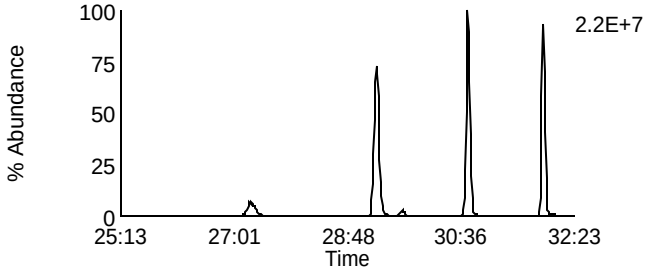


Homologue Group: Pentas

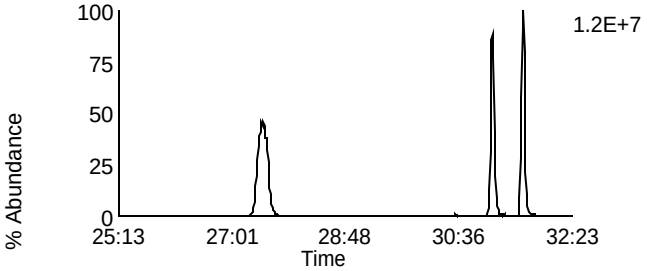
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

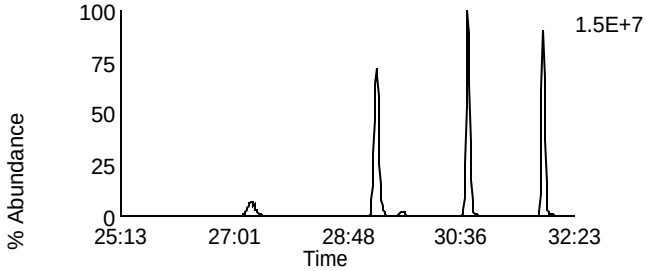
Data File: U140328B_02 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL set windows TC



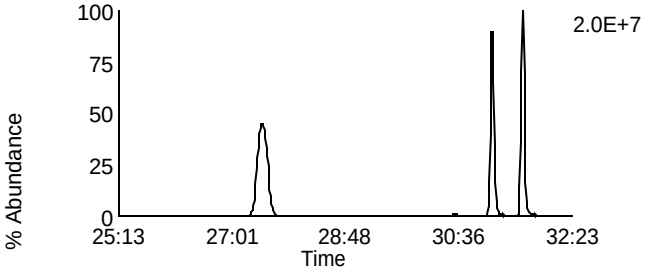
Data File: U140328B_02 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL set windows TC



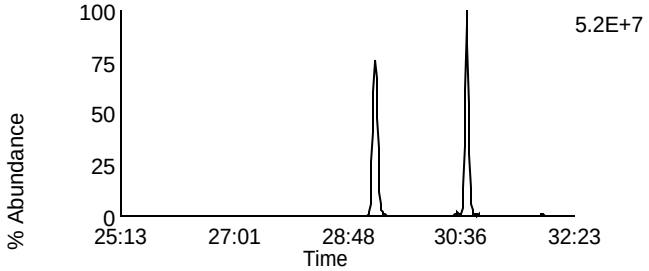
Data File: U140328B_02 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL set windows TC



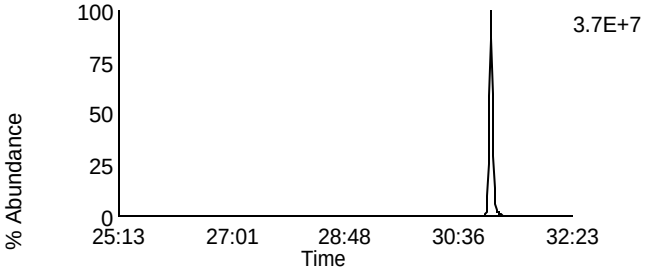
Data File: U140328B_02 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL set windows TC



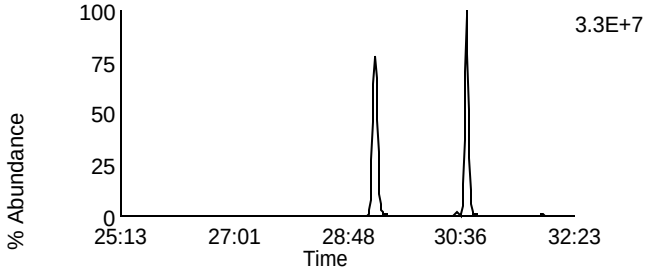
Data File: U140328B_02 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL set windows TC



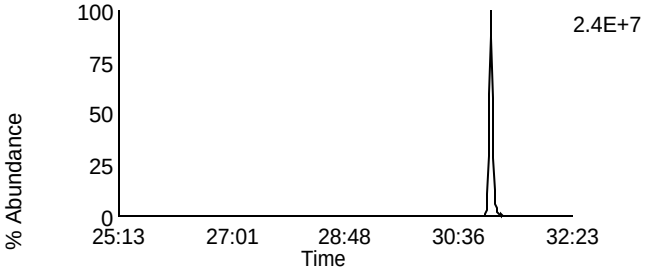
Data File: U140328B_02 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL set windows TC



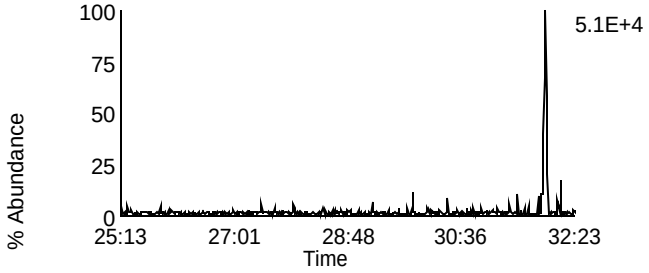
Data File: U140328B_02 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL set windows TC



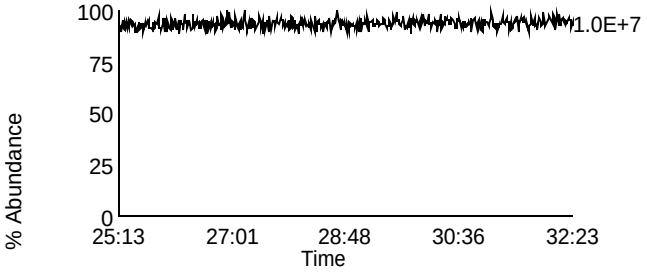
Data File: U140328B_02 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

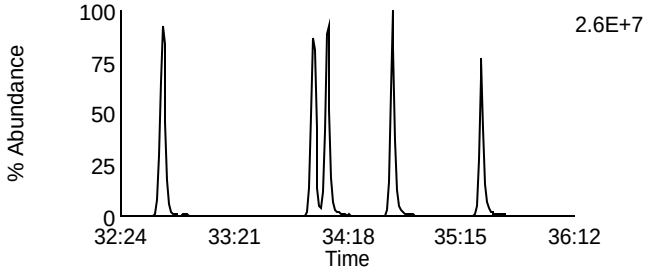


Homologue Group: Hexas

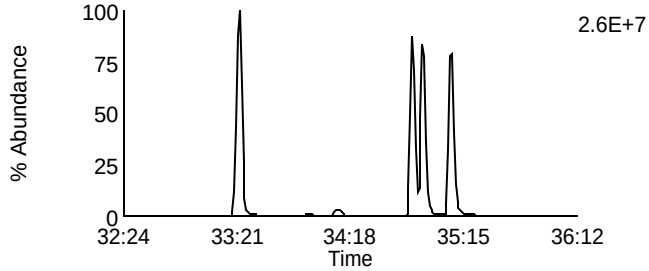
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

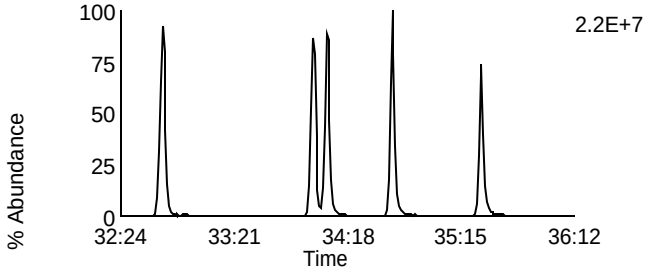
Data File: U140328B_02 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL set windows TC



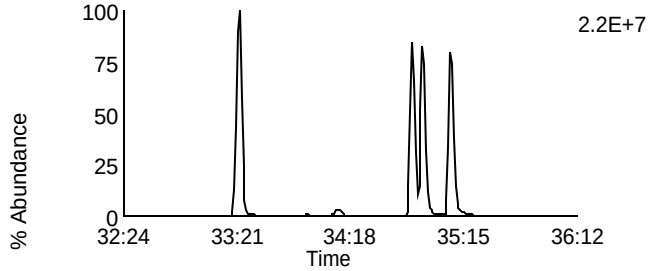
Data File: U140328B_02 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL set windows TC



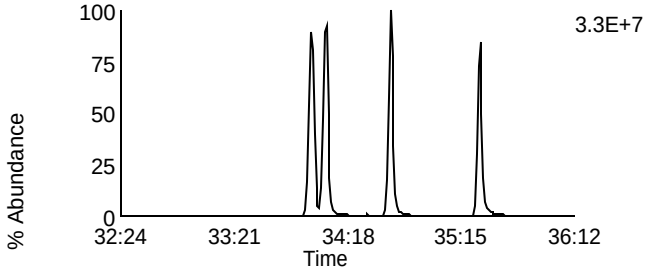
Data File: U140328B_02 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL set windows TC



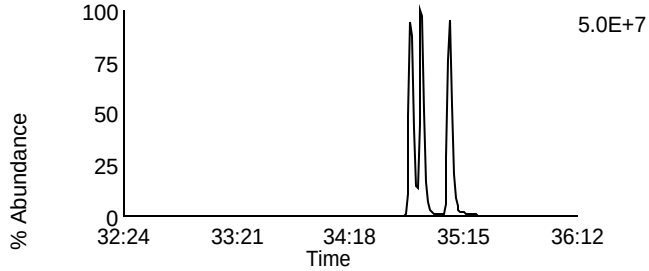
Data File: U140328B_02 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL set windows TC



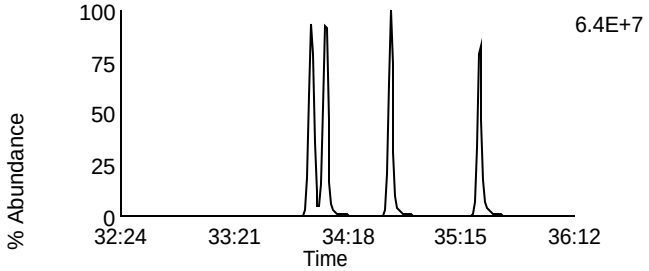
Data File: U140328B_02 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL set windows TC



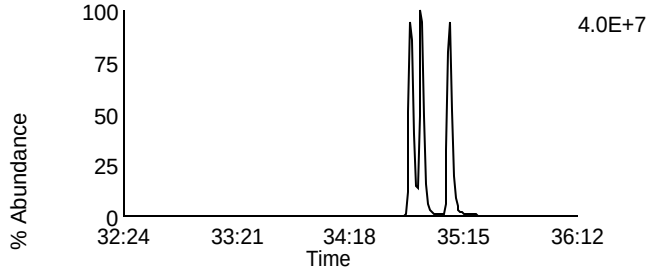
Data File: U140328B_02 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL set windows TC



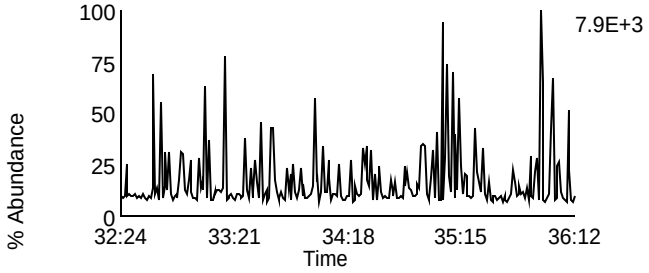
Data File: U140328B_02 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL set windows TC



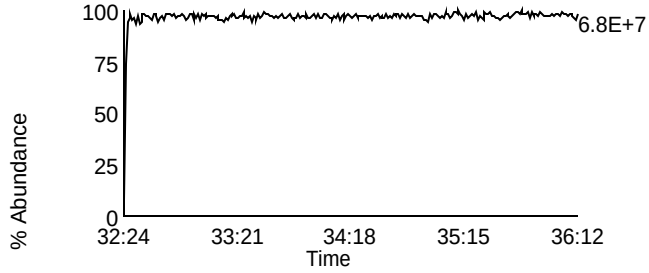
Data File: U140328B_02 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL set windows TC

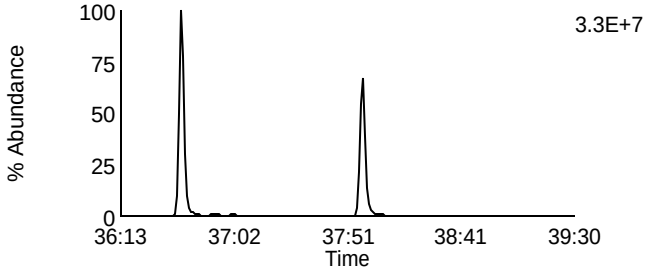


Homologue Group: Heptas

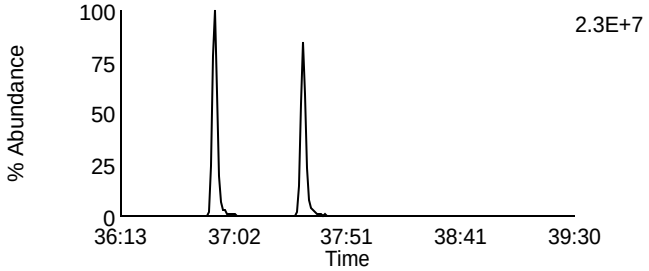
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

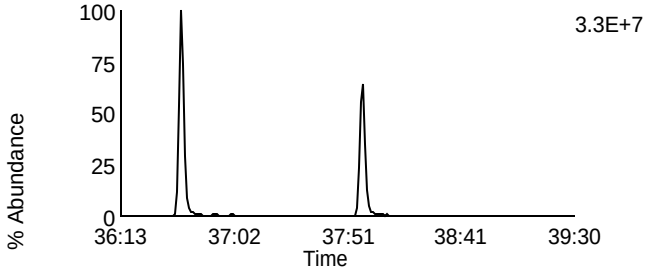
Data File: U140328B_02 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL set windows TC



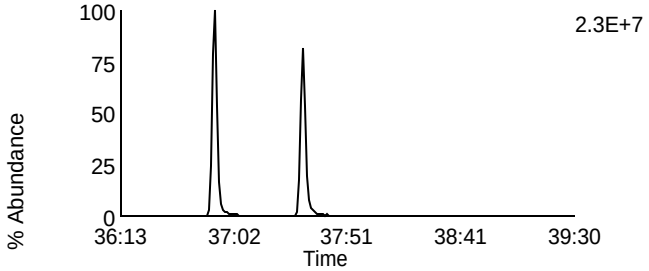
Data File: U140328B_02 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL set windows TC



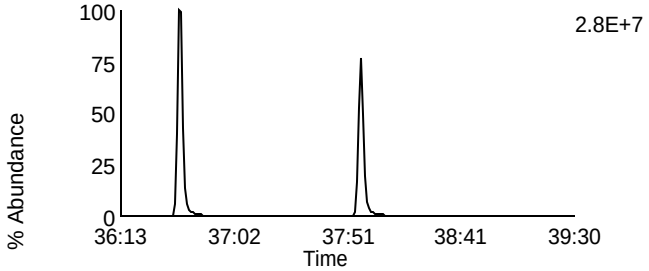
Data File: U140328B_02 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL set windows TC



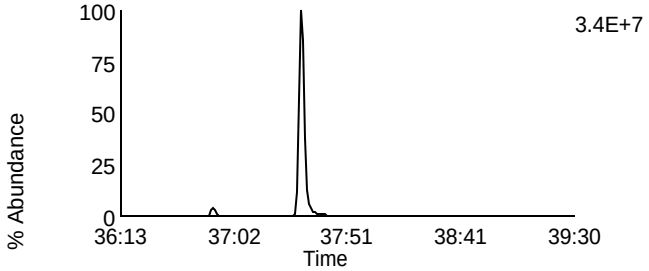
Data File: U140328B_02 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL set windows TC



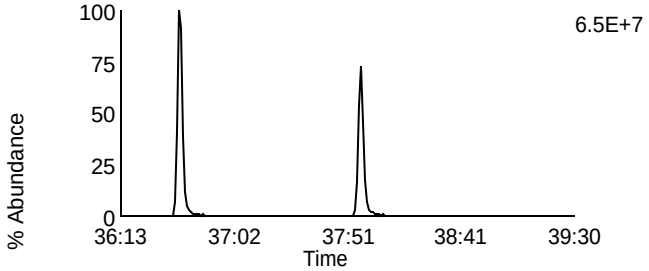
Data File: U140328B_02 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL set windows TC



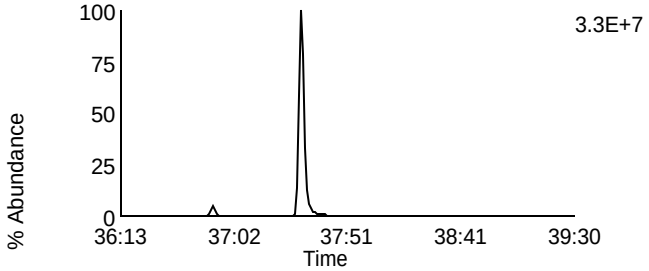
Data File: U140328B_02 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL set windows TC



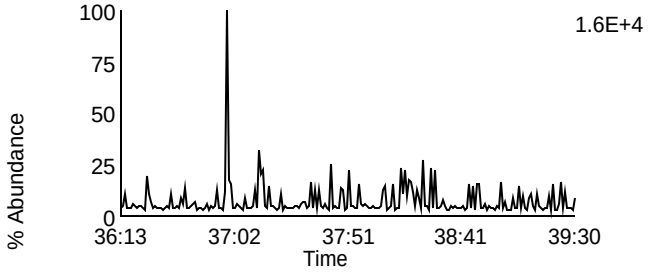
Data File: U140328B_02 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL set windows TC



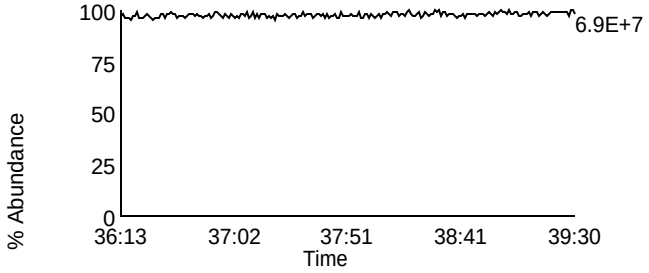
Data File: U140328B_02 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL set windows TC

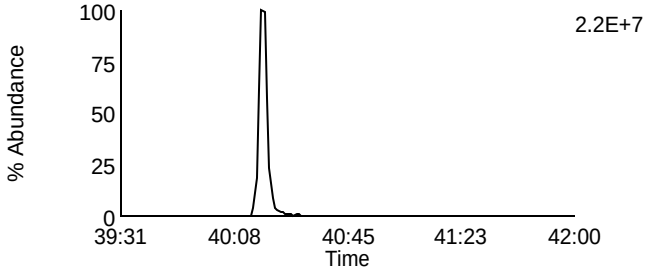


Homologue Group: Octas

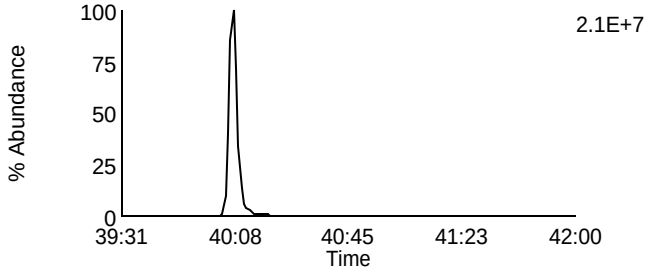
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID:
Instrument: 10MSHR06 (U)

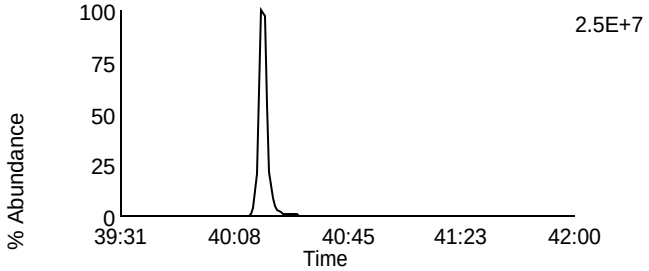
Data File: U140328B_02 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL set windows TC



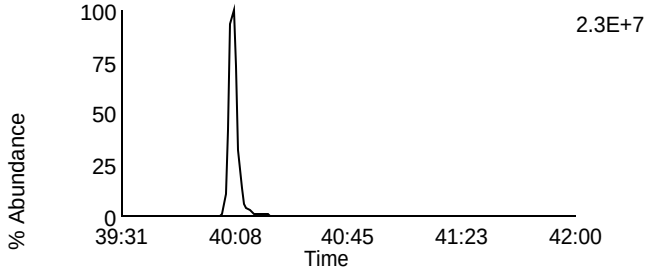
Data File: U140328B_02 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL set windows TC



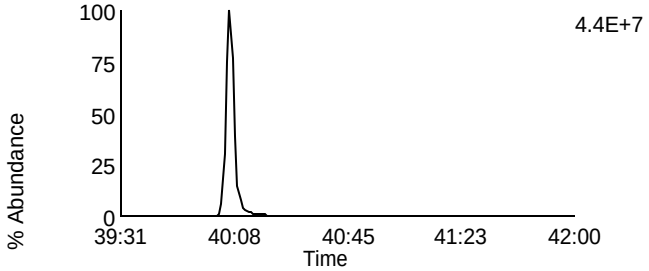
Data File: U140328B_02 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL set windows TC



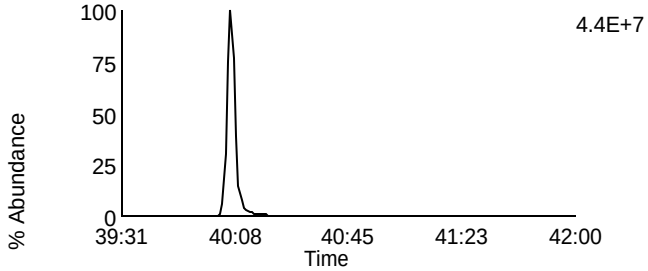
Data File: U140328B_02 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL set windows TC



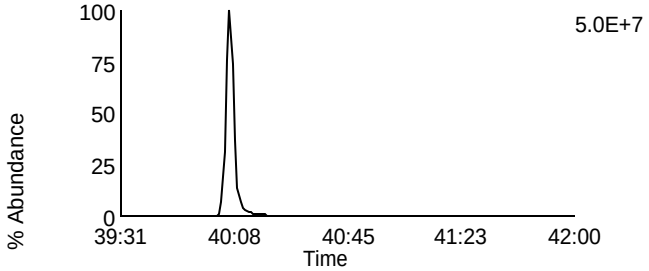
Data File: U140328B_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL set windows TC



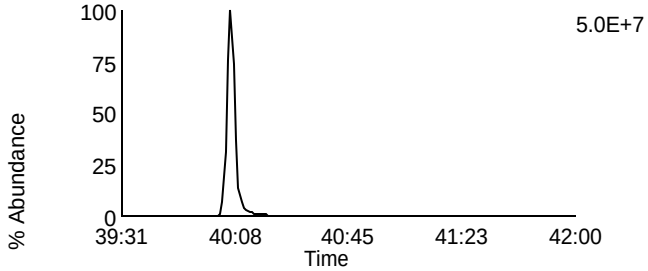
Data File: U140328B_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL set windows TC



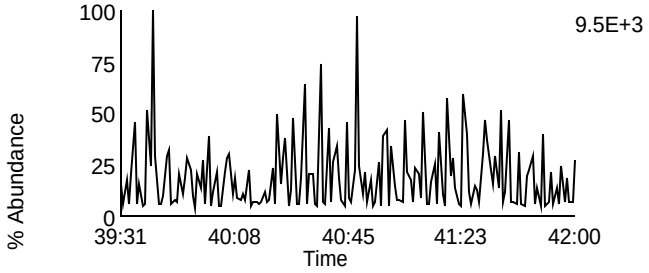
Data File: U140328B_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL set windows TC



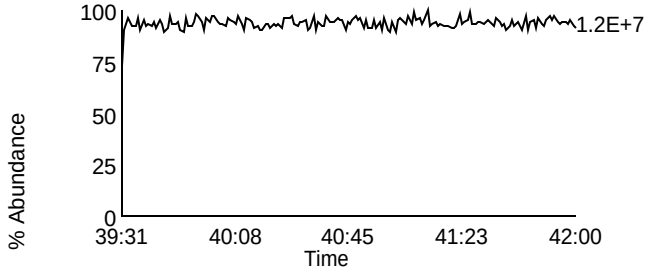
Data File: U140328B_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL set windows TC



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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	10MSHR09 (P)
Filename	P130624B_03	GC Column ID	USC473217H
Analyzed	06/24/2013 12:10	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	19:24	4.14e7	5.26e7	6.04e6	7.70e6	-----	-----	0.79	
2,3,7,8-TCDF	19:27	1.87e5	2.43e5	3.25e4	3.98e4	-----	-----	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	19:36	2.63e7	3.30e7	4.00e6	5.07e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	20:24	2.59e7	3.31e7	3.65e6	4.61e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	20:26	3.15e5		4.75e4		-----	-----		
2,3,7,8-TCDD	20:25	1.32e5	1.62e5	1.85e4	2.46e4	-----	-----	0.81	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:13	4.28e7	2.74e7	6.98e6	4.43e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	27:41	4.35e7	2.77e7	8.14e6	5.15e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:15	9.61e5	6.30e5	1.62e5	1.09e5	-----	-----	1.52	
2,3,4,7,8-PeCDF	27:43	9.88e5	6.64e5	1.93e5	1.25e5	-----	-----	1.49	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	28:07	2.82e7	1.73e7	5.33e6	3.39e6	-----	-----	1.63	
1,2,3,7,8-PeCDD	28:09	4.22e5	6.91e5	8.23e4	1.26e5	-----	-----	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	31:32	1.69e7	3.28e7	4.13e6	7.97e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	31:42	2.18e7	4.06e7	4.44e6	8.42e6	-----	-----	0.54	
2,3,4,6,7,8-HxCDF-13C	32:24	1.97e7	3.83e7	4.75e6	9.08e6	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	33:22	1.64e7	3.32e7	3.55e6	6.89e6	-----	-----	0.49	
1,2,3,4,7,8-HxCDF	31:33	7.48e5	6.04e5	1.81e5	1.61e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	31:43	8.84e5	7.31e5	1.91e5	1.45e5	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	32:25	8.03e5	6.54e5	2.11e5	1.48e5	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	33:23	6.49e5	5.68e5	1.41e5	1.19e5	-----	-----	1.14	

REPORT OF LABORATORY ANALYSIS

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR09 (P)
Filename	P130624B_03	GC Column ID	USC473217H
Analyzed	06/24/2013 12:10	ICAL ID	P130624

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	32:35	2.14e7	1.71e7	5.82e6	4.60e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	32:42	2.81e7	2.24e7	6.33e6	5.07e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	33:00	2.62e7	2.10e7	5.40e6	4.26e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	32:36	5.60e5	4.56e5	1.41e5	1.16e5	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	32:43	6.16e5	5.26e5	1.55e5	1.18e5	-----	-----	1.17	
1,2,3,7,8,9-HxCDD	33:01	5.56e5	4.69e5	1.15e5	9.91e4	-----	-----	1.19	

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	35:02	1.46e7	3.22e7	3.27e6	7.04e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	36:40	1.07e7	2.47e7	2.41e6	5.36e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	35:03	7.43e5	7.04e5	1.79e5	1.63e5	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	36:41	5.35e5	5.53e5	1.19e5	1.42e5	-----	-----	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	36:09	1.84e7	1.75e7	4.20e6	3.83e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	36:10	4.35e5	4.18e5	1.01e5	9.33e4	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	39:06	7.19e5	8.06e5	1.53e5	1.72e5	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	38:56	2.78e7	3.11e7	5.19e6	6.01e6	-----	-----	0.89	
OCDD	38:56	5.98e5	6.66e5	1.46e5	1.47e5	-----	-----	0.90	

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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	CS2-7604-215	Instrument ID	10MSHR09 (P)
Filename	P130624B_02	GC Column ID	USC473217H
Analyzed	06/24/2013 11:27	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	19:23	3.98e7	5.08e7	5.83e6	7.38e6	-----	-----	0.78	
2,3,7,8-TCDF	19:25	6.96e5	9.02e5	9.72e4	1.27e5	-----	-----	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	19:35	2.63e7	3.28e7	3.85e6	4.86e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	20:24	2.48e7	3.18e7	3.46e6	4.34e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	20:25	1.26e6		1.70e5		-----	-----		
2,3,7,8-TCDD	20:26	5.11e5	6.44e5	6.96e4	9.71e4	-----	-----	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	26:12	4.17e7	2.68e7	6.66e6	4.32e6	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	27:41	4.24e7	2.72e7	7.81e6	5.15e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:13	3.81e6	2.51e6	6.25e5	4.29e5	-----	-----	1.51	
2,3,4,7,8-PeCDF	27:42	4.02e6	2.57e6	7.83e5	4.89e5	-----	-----	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	28:07	2.70e7	1.71e7	5.03e6	3.15e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	28:08	1.62e6	2.73e6	2.94e5	4.98e5	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	31:32	1.61e7	3.14e7	3.90e6	7.47e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	31:41	2.13e7	4.07e7	4.37e6	8.35e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	32:24	1.93e7	3.72e7	4.30e6	8.11e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	33:22	1.63e7	3.08e7	3.34e6	6.16e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	31:33	2.96e6	2.42e6	7.32e5	5.80e5	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	31:42	3.59e6	2.87e6	7.65e5	6.42e5	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	32:25	3.27e6	2.66e6	7.86e5	6.08e5	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	33:23	2.64e6	2.17e6	5.40e5	4.42e5	-----	-----	1.22	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-215	Instrument ID	10MSHR09 (P)
Filename	P130624B_02	GC Column ID	USC473217H
Analyzed	06/24/2013 11:27	ICAL ID	P130624

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	32:35	2.10e7	1.69e7	5.42e6	4.31e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	32:42	2.73e7	2.16e7	6.05e6	4.74e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD-13C	33:00	2.47e7	2.10e7	5.12e6	4.07e6	-----	-----	1.17	
1,2,3,4,7,8-HxCDD	32:36	2.09e6	1.68e6	5.36e5	4.25e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	32:43	2.53e6	2.08e6	5.72e5	4.38e5	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	33:01	2.31e6	1.95e6	4.74e5	3.88e5	-----	-----	1.18	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	35:01	1.45e7	3.09e7	3.22e6	7.04e6	-----	-----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	36:40	1.05e7	2.34e7	2.19e6	4.83e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	35:02	3.06e6	2.84e6	7.15e5	6.75e5	-----	-----	1.08	
1,2,3,4,7,8,9-HpCDF	36:40	2.19e6	2.15e6	4.75e5	4.33e5	-----	-----	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	36:09	1.78e7	1.66e7	3.84e6	3.51e6	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	36:10	1.85e6	1.72e6	4.05e5	3.80e5	-----	-----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	39:06	3.00e6	3.22e6	5.81e5	6.26e5	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	38:56	2.62e7	2.89e7	5.03e6	5.76e6	-----	-----	0.91	
OCDD	38:56	2.58e6	2.93e6	5.00e5	5.63e5	-----	-----	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	SMT
Lab ID	CS3/CPM-7604-272	Instrument ID	10MSHR09 (P)
Filename	P130624B_01	GC Column ID	USC473217H
Analyzed	06/24/2013 09:59	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	19:23	4.42e7	5.76e7	6.55e6	8.37e6	-----	-----	0.77	
2,3,7,8-TCDF	19:25	4.03e6	5.25e6	5.87e5	7.80e5	-----	-----	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	19:35	2.99e7	3.82e7	4.53e6	5.65e6	-----	-----	0.78	
2,3,7,8-TCDD-13C	20:24	2.92e7	3.71e7	4.05e6	5.14e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	20:25	7.33e6		1.04e6		-----	-----		
2,3,7,8-TCDD	20:25	3.24e6	4.00e6	4.46e5	5.45e5	-----	-----	0.81	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:12	4.81e7	3.09e7	7.86e6	5.05e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	27:41	4.91e7	3.14e7	9.21e6	5.97e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:13	2.25e7	1.45e7	3.62e6	2.32e6	-----	-----	1.56	
2,3,4,7,8-PeCDF	27:42	2.35e7	1.51e7	4.47e6	2.89e6	-----	-----	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	28:07	3.26e7	2.03e7	6.05e6	3.77e6	-----	-----	1.60	
1,2,3,7,8-PeCDD	28:09	9.77e6	1.58e7	1.88e6	3.05e6	-----	-----	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	31:32	1.96e7	3.79e7	4.82e6	9.14e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	31:41	2.43e7	4.69e7	5.18e6	9.99e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	32:24	2.14e7	4.12e7	5.15e6	9.45e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	33:22	1.89e7	3.74e7	4.00e6	7.50e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	31:33	1.72e7	1.38e7	4.16e6	3.39e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	31:42	2.13e7	1.71e7	4.31e6	3.44e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	32:25	1.98e7	1.56e7	4.66e6	3.77e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	33:23	1.58e7	1.24e7	3.35e6	2.64e6	-----	-----	1.27	

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-272	Instrument ID	10MSHR09 (P)
Filename	P130624B_01	GC Column ID	USC473217H
Analyzed	06/24/2013 09:59	ICAL ID	P130624

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	32:35	2.47e7	1.98e7	6.95e6	5.41e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	32:42	3.27e7	2.63e7	7.24e6	5.86e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	33:00	2.94e7	2.34e7	6.11e6	4.86e6	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	32:36	1.22e7	9.88e6	3.28e6	2.67e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	32:43	1.51e7	1.21e7	3.29e6	2.72e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	33:01	1.45e7	1.16e7	2.89e6	2.34e6	-----	-----	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	35:01	1.69e7	3.76e7	3.71e6	8.22e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	36:40	1.25e7	2.78e7	2.79e6	6.04e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	35:02	1.80e7	1.74e7	4.15e6	3.97e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	36:41	1.41e7	1.31e7	3.02e6	2.91e6	-----	-----	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	36:09	2.11e7	2.08e7	4.75e6	4.56e6	-----	-----	1.01	
1,2,3,4,6,7,8-HpCDD	36:10	1.11e7	1.07e7	2.38e6	2.35e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	39:06	1.87e7	2.01e7	3.83e6	4.25e6	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	38:56	3.27e7	3.61e7	6.40e6	7.29e6	-----	-----	0.91	
OCDD	38:56	1.64e7	1.82e7	3.24e6	3.58e6	-----	-----	0.90	

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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	CS4-7604-216	Instrument ID	10MSHR09 (P)
Filename	P130624B_05	GC Column ID	USC473217H
Analyzed	06/24/2013 13:44	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	19:24	4.84e7	6.20e7	7.09e6	9.00e6	-----	-----	0.78	
2,3,7,8-TCDF	19:26	1.72e7	2.28e7	2.53e6	3.28e6	-----	-----	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	19:36	3.15e7	3.95e7	4.66e6	5.76e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	20:24	3.05e7	3.85e7	4.21e6	5.35e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	20:25	3.12e7		4.33e6		-----	-----		
2,3,7,8-TCDD	20:25	1.29e7	1.64e7	1.76e6	2.28e6	-----	-----	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	26:13	5.16e7	3.32e7	8.64e6	5.60e6	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	27:41	5.33e7	3.36e7	1.03e7	6.39e6	-----	-----	1.59	
1,2,3,7,8-PeCDF	26:13	9.65e7	6.26e7	1.60e7	1.03e7	-----	-----	1.54	
2,3,4,7,8-PeCDF	27:42	1.02e8	6.60e7	1.99e7	1.29e7	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	28:07	3.40e7	2.14e7	6.49e6	4.13e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	28:09	4.30e7	6.98e7	7.98e6	1.30e7	-----	-----	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	31:32	2.03e7	3.97e7	5.09e6	9.68e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	31:41	2.68e7	5.09e7	5.66e6	1.08e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	32:24	2.43e7	4.64e7	5.59e6	1.04e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	33:22	2.10e7	4.12e7	4.41e6	8.39e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	31:33	7.53e7	6.06e7	1.85e7	1.47e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	31:43	9.29e7	7.46e7	1.96e7	1.59e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	32:25	8.58e7	6.69e7	1.95e7	1.56e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDF	33:23	7.16e7	5.71e7	1.44e7	1.14e7	-----	-----	1.25	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-216	Instrument ID	10MSHR09 (P)
Filename	P130624B_05	GC Column ID	USC473217H
Analyzed	06/24/2013 13:44	ICAL ID	P130624

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	32:35	2.69e7	2.15e7	7.28e6	5.81e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	32:42	3.46e7	2.77e7	7.57e6	6.19e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	33:00	3.24e7	2.58e7	6.72e6	5.51e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	32:36	5.33e7	4.27e7	1.43e7	1.14e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	32:43	6.61e7	5.33e7	1.45e7	1.18e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	33:01	6.38e7	4.93e7	1.29e7	1.04e7	-----	-----	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	35:01	1.81e7	4.03e7	4.04e6	8.83e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	36:40	1.36e7	3.01e7	3.01e6	6.62e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	35:02	8.07e7	7.62e7	1.84e7	1.78e7	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	36:41	6.25e7	6.04e7	1.34e7	1.25e7	-----	-----	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	36:09	2.32e7	2.14e7	5.04e6	4.70e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	36:10	4.91e7	4.66e7	1.03e7	9.71e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	39:06	8.75e7	9.89e7	1.73e7	1.90e7	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	38:56	3.55e7	4.06e7	7.01e6	7.80e6	-----	-----	0.88	
OCDD	38:56	7.48e7	8.35e7	1.42e7	1.60e7	-----	-----	0.90	

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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	CS5-7604-217	Instrument ID	10MSHR09 (P)
Filename	P130624B_04	GC Column ID	USC473217H
Analyzed	06/24/2013 13:01	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	19:24	4.00e7	5.07e7	6.53e6	8.14e6	-----	-----	0.79	
2,3,7,8-TCDF	19:25	7.25e7	9.50e7	1.15e7	1.47e7	-----	-----	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	19:36	2.53e7	3.18e7	3.92e6	4.99e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	20:24	2.56e7	3.22e7	3.86e6	4.89e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	20:25	1.32e8		1.94e7		-----	-----		
2,3,7,8-TCDD	20:25	5.45e7	7.10e7	7.99e6	1.03e7	-----	-----	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	26:12	4.56e7	2.86e7	7.76e6	4.97e6	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	27:41	4.57e7	2.92e7	8.87e6	5.71e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:14	4.13e8	2.69e8	7.13e7	4.60e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	27:42	4.36e8	2.86e8	8.85e7	5.68e7	-----	-----	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	28:06	2.93e7	1.87e7	5.70e6	3.62e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	28:08	1.86e8	3.02e8	3.73e7	6.08e7	-----	-----	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	31:32	1.77e7	3.43e7	4.49e6	8.42e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	31:41	2.31e7	4.35e7	5.02e6	9.50e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	32:23	2.13e7	4.06e7	4.85e6	9.45e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	33:22	1.86e7	3.55e7	3.86e6	7.27e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	31:33	3.28e8	2.64e8	8.21e7	6.60e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	31:42	4.07e8	3.26e8	8.66e7	6.96e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	32:25	3.79e8	3.04e8	8.71e7	6.89e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	33:23	3.21e8	2.56e8	6.54e7	5.15e7	-----	-----	1.25	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-217	Instrument ID	10MSHR09 (P)
Filename	P130624B_04	GC Column ID	USC473217H
Analyzed	06/24/2013 13:01	ICAL ID	P130624

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	32:35	2.36e7	1.89e7	6.07e6	4.89e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	32:42	3.02e7	2.40e7	6.75e6	5.28e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	33:00	2.78e7	2.25e7	5.76e6	4.58e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	32:36	2.34e8	1.89e8	6.12e7	4.91e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	32:43	2.81e8	2.26e8	6.39e7	5.11e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	33:01	2.67e8	2.26e8	5.57e7	4.44e7	-----	-----	1.18	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	35:01	1.55e7	3.43e7	3.76e6	8.26e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	36:39	1.26e7	2.72e7	2.62e6	5.83e6	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	35:02	3.48e8	3.36e8	8.31e7	7.98e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	36:40	2.78e8	2.67e8	5.72e7	5.60e7	-----	-----	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	36:09	1.97e7	1.90e7	4.20e6	4.07e6	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	36:09	2.12e8	2.03e8	4.57e7	4.48e7	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	39:06	3.90e8	4.34e8	7.60e7	8.28e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	38:56	2.99e7	3.35e7	5.71e6	6.42e6	-----	-----	0.89	
OCDD	38:56	3.22e8	3.58e8	5.87e7	6.58e7	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140322B_06	GC Column ID	USD397111H
Analyzed	03/22/2014 16:50	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.77e8	2.29e8	2.63e7	3.38e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	7.09e5	1.02e6	1.00e5	2.13e5	-----	-----	0.70	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.21e8	1.54e8	1.78e7	2.27e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	22:57	1.20e8	1.53e8	1.66e7	2.15e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:60	1.54e6		2.20e5		-----	-----		
2,3,7,8-TCDD	22:58	6.01e5	8.82e5	9.18e4	1.38e5	-----	-----	0.68	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.85e8	1.19e8	3.57e7	2.23e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:01	1.80e8	1.17e8	4.20e7	2.73e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:40	4.20e6	2.61e6	7.49e5	5.00e5	-----	-----	1.61	
2,3,4,7,8-PeCDF	31:01	4.05e6	2.61e6	1.01e6	6.62e5	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.24e8	7.93e7	3.07e7	1.98e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	31:26	1.88e6	3.17e6	4.96e5	7.99e5	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	7.48e7	1.46e8	2.54e7	5.06e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:20	8.82e7	1.68e8	2.98e7	5.76e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:52	8.25e7	1.61e8	2.96e7	5.80e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	6.88e7	1.31e8	2.33e7	4.45e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	3.40e6	2.74e6	1.11e6	9.33e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:21	3.52e6	2.99e6	1.20e6	9.95e5	-----	-----	1.18	
2,3,4,6,7,8-HxCDF	34:53	3.41e6	2.84e6	1.32e6	1.08e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	35:37	2.72e6	2.19e6	9.70e5	7.56e5	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U140322B_06	GC Column ID	USD397111H
Analyzed	03/22/2014 16:50	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	1.01e8	8.10e7	3.97e7	3.19e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	35:06	1.21e8	9.48e7	4.32e7	3.42e7	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	35:20	1.13e8	9.29e7	3.98e7	3.14e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	35:02	2.51e6	2.01e6	8.60e5	6.78e5	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	35:07	2.93e6	2.31e6	9.95e5	8.59e5	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	35:21	2.76e6	2.19e6	1.03e6	7.14e5	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	6.38e7	1.39e8	2.27e7	4.83e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.60e7	9.95e7	1.51e7	3.34e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	3.44e6	3.48e6	1.26e6	1.31e6	-----	-----	0.99	
1,2,3,4,7,8,9-HpCDF	38:10	2.47e6	2.51e6	7.74e5	8.14e5	-----	-----	0.98	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	7.77e7	7.28e7	2.62e7	2.44e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:43	1.97e6	1.93e6	6.72e5	6.73e5	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:31	2.57e6	3.08e6	7.86e5	9.33e5	-----	-----	0.83	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	9.84e7	1.12e8	2.96e7	3.36e7	-----	-----	0.88	
OCDD	40:19	2.52e6	2.85e6	7.14e5	8.46e5	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140322B_05	GC Column ID	USD397111H
Analyzed	03/22/2014 16:05	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.45e8	1.89e8	2.14e7	2.82e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	2.46e6	3.39e6	4.31e5	5.49e5	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	10.00e7	1.27e8	1.42e7	1.75e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	9.98e7	1.27e8	1.38e7	1.81e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	22:59	5.19e6		7.75e5		-----	-----		
2,3,7,8-TCDD	22:58	2.18e6	2.75e6	3.15e5	4.02e5	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.48e8	9.71e7	2.90e7	1.86e7	-----	-----	1.52	
2,3,4,7,8-PeCDF-13C	31:01	1.50e8	9.77e7	3.56e7	2.32e7	-----	-----	1.53	
1,2,3,7,8-PeCDF	29:40	1.29e7	8.63e6	2.45e6	1.75e6	-----	-----	1.49	
2,3,4,7,8-PeCDF	31:01	1.34e7	8.97e6	2.99e6	2.05e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.02e8	6.58e7	2.58e7	1.65e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:26	6.32e6	1.01e7	1.43e6	2.47e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	6.02e7	1.19e8	2.09e7	4.06e7	-----	-----	0.50	
1,2,3,6,7,8-HxCDF-13C	34:20	7.08e7	1.37e8	2.34e7	4.62e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:52	6.36e7	1.24e8	2.24e7	4.42e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	5.85e7	1.14e8	1.98e7	3.85e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:14	1.05e7	8.51e6	3.64e6	3.15e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	34:21	1.16e7	9.55e6	4.02e6	3.26e6	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	34:53	1.11e7	8.81e6	4.05e6	3.37e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	35:37	8.94e6	7.43e6	3.14e6	2.59e6	-----	-----	1.20	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U140322B_05	GC Column ID	USD397111H
Analyzed	03/22/2014 16:05	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	8.48e7	6.83e7	3.44e7	2.77e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:06	1.03e8	8.13e7	3.61e7	2.79e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:20	9.33e7	7.57e7	3.22e7	2.56e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	35:02	8.59e6	6.90e6	3.23e6	2.60e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	35:07	9.37e6	7.48e6	3.52e6	2.61e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:21	8.76e6	6.95e6	2.90e6	2.44e6	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	5.42e7	1.18e8	2.05e7	4.28e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.00e7	8.68e7	1.31e7	2.90e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	1.18e7	1.11e7	4.45e6	4.13e6	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	38:10	8.59e6	8.34e6	2.80e6	2.64e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	6.84e7	6.48e7	2.38e7	2.29e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:43	7.09e6	7.03e6	2.46e6	2.46e6	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	9.79e6	1.14e7	2.83e6	3.30e6	-----	-----	0.86	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	9.35e7	1.04e8	2.89e7	3.22e7	-----	-----	0.90	
OCDD	40:20	9.02e6	1.06e7	2.80e6	3.33e6	-----	-----	0.85	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140322B_04	GC Column ID	USD397111H
Analyzed	03/22/2014 15:20	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.87e8	2.41e8	2.67e7	3.40e7	-----	-----	0.78	
2,3,7,8-TCDF	21:47	1.62e7	2.10e7	2.59e6	3.03e6	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.27e8	1.62e8	1.85e7	2.32e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	1.29e8	1.62e8	1.76e7	2.26e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:59	3.28e7		4.55e6		-----	-----		
2,3,7,8-TCDD	22:57	1.36e7	1.73e7	1.76e6	2.29e6	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.96e8	1.26e8	3.71e7	2.38e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	31:01	1.97e8	1.28e8	4.78e7	3.14e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	29:40	8.40e7	5.50e7	1.63e7	1.04e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	31:02	8.49e7	5.56e7	2.01e7	1.37e7	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.35e8	8.47e7	3.52e7	2.25e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	31:25	4.02e7	6.42e7	1.01e7	1.61e7	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:13	8.22e7	1.59e8	2.97e7	5.71e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:20	9.36e7	1.82e8	3.16e7	5.95e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:52	8.22e7	1.61e8	2.94e7	5.68e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:37	7.57e7	1.47e8	2.73e7	5.03e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	6.75e7	5.61e7	2.46e7	2.09e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:21	7.66e7	6.12e7	2.58e7	2.04e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:53	7.31e7	5.80e7	2.74e7	2.20e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	35:37	5.86e7	4.83e7	2.00e7	1.72e7	-----	-----	1.21	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140322B_04	GC Column ID	USD397111H
Analyzed	03/22/2014 15:20	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	1.15e8	9.22e7	4.51e7	3.56e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	35:06	1.33e8	1.06e8	4.78e7	3.91e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:20	1.23e8	9.94e7	4.47e7	3.52e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	35:02	5.62e7	4.68e7	2.03e7	1.68e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDD	35:07	5.74e7	4.58e7	2.11e7	1.67e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:20	5.79e7	4.78e7	1.95e7	1.59e7	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:49	7.11e7	1.56e8	2.79e7	6.26e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:09	5.10e7	1.11e8	1.74e7	3.86e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	7.66e7	7.38e7	2.99e7	2.84e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:09	5.45e7	5.23e7	1.98e7	1.90e7	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	8.92e7	8.39e7	3.05e7	2.95e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	37:43	4.65e7	4.39e7	1.75e7	1.70e7	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	6.28e7	6.98e7	1.84e7	2.13e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	1.19e8	1.32e8	3.58e7	4.02e7	-----	-----	0.90	
OCDD	40:19	5.80e7	6.52e7	1.77e7	2.02e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140322B_08	GC Column ID	USD397111H
Analyzed	03/22/2014 18:19	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.29e8	1.67e8	1.90e7	2.44e7	-----	-----	0.77	
2,3,7,8-TCDF	21:47	4.40e7	5.86e7	6.56e6	8.84e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:03	9.01e7	1.14e8	1.33e7	1.66e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:56	8.99e7	1.12e8	1.21e7	1.55e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	22:58	8.93e7		1.24e7		-----	-----		
2,3,7,8-TCDD	22:59	3.57e7	4.67e7	4.85e6	6.33e6	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:38	1.34e8	8.70e7	2.65e7	1.70e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	31:01	1.37e8	8.70e7	3.25e7	2.10e7	-----	-----	1.57	
1,2,3,7,8-PeCDF	29:40	2.36e8	1.54e8	4.54e7	3.05e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	31:01	2.41e8	1.58e8	5.89e7	3.94e7	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	9.22e7	5.82e7	2.21e7	1.43e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	31:25	1.10e8	1.79e8	2.75e7	4.47e7	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	5.59e7	1.08e8	1.86e7	3.55e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:20	6.59e7	1.23e8	2.13e7	3.97e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:52	5.61e7	1.10e8	1.93e7	3.61e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:36	5.29e7	1.02e8	1.67e7	3.21e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	1.85e8	1.51e8	6.33e7	5.11e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	34:21	2.14e8	1.71e8	7.10e7	5.75e7	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	34:53	2.03e8	1.68e8	6.92e7	5.66e7	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	35:37	1.63e8	1.32e8	5.23e7	4.38e7	-----	-----	1.23	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U140322B_08	GC Column ID	USD397111H
Analyzed	03/22/2014 18:19	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	7.71e7	5.84e7	2.73e7	2.08e7	-----	-----	1.32	
1,2,3,6,7,8-HxCDD-13C	35:06	9.03e7	7.56e7	3.00e7	2.37e7	-----	-----	1.19	
1,2,3,7,8,9-HxCDD-13C	35:20	8.09e7	6.63e7	2.42e7	2.00e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	35:01	1.44e8	1.16e8	5.37e7	4.45e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	35:07	1.69e8	1.34e8	5.33e7	4.38e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	35:20	1.58e8	1.26e8	4.92e7	4.01e7	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:49	4.71e7	1.04e8	1.84e7	4.01e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:08	3.47e7	7.59e7	1.14e7	2.51e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	36:50	2.08e8	1.98e8	7.84e7	7.40e7	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:09	1.50e8	1.41e8	5.05e7	4.77e7	-----	-----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:42	5.70e7	5.53e7	1.92e7	1.87e7	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	37:43	1.22e8	1.14e8	4.18e7	3.91e7	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:30	1.91e8	2.08e8	5.40e7	6.05e7	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:19	8.28e7	9.07e7	2.31e7	2.60e7	-----	-----	0.91	
OCDD	40:20	1.63e8	1.83e8	4.75e7	5.32e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140322B_07	GC Column ID	USD397111H
Analyzed	03/22/2014 17:34	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:46	1.50e8	1.93e8	2.14e7	2.74e7	-----	-----	0.78	
2,3,7,8-TCDF	21:47	2.58e8	3.36e8	3.68e7	4.75e7	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	22:04	1.04e8	1.32e8	1.50e7	1.86e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:57	1.03e8	1.34e8	1.42e7	1.83e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	22:58	5.30e8		7.18e7		-----	-----		
2,3,7,8-TCDD	22:58	2.11e8	2.72e8	2.91e7	3.73e7	-----	-----	0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	29:39	1.62e8	1.06e8	3.18e7	2.02e7	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	31:01	1.64e8	1.06e8	3.98e7	2.59e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:41	1.43e9	9.28e8	2.73e8	1.82e8	-----	-----	1.55	
2,3,4,7,8-PeCDF	31:01	1.47e9	9.67e8	3.68e8	2.40e8	-----	-----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:25	1.13e8	7.30e7	2.88e7	1.87e7	-----	-----	1.55	
1,2,3,7,8-PeCDD	31:26	6.87e8	1.11e9	1.74e8	2.76e8	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	34:14	6.89e7	1.34e8	2.35e7	4.62e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:21	8.02e7	1.55e8	2.59e7	5.06e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:53	7.04e7	1.36e8	2.57e7	4.90e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:37	6.87e7	1.32e8	2.38e7	4.53e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:14	1.19e9	9.40e8	3.99e8	3.33e8	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	34:21	1.31e9	1.08e9	4.33e8	3.55e8	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	34:53	1.24e9	1.01e9	4.57e8	3.72e8	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:38	1.07e9	8.57e8	3.73e8	2.99e8	-----	-----	1.25	

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Client Name	PASI Wisconsin		
Client ID		Injected By	BAL
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U140322B_07	GC Column ID	USD397111H
Analyzed	03/22/2014 17:34	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	35:01	9.72e7	7.67e7	3.80e7	2.92e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	35:06	1.14e8	9.25e7	4.23e7	3.41e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	35:20	1.04e8	8.47e7	3.64e7	2.96e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	35:02	9.52e8	7.73e8	3.67e8	2.95e8	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	35:07	1.00e9	8.17e8	3.63e8	2.96e8	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	35:21	9.83e8	8.04e8	3.40e8	2.74e8	-----	-----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:50	6.06e7	1.32e8	2.18e7	4.68e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:09	4.57e7	1.01e8	1.59e7	3.49e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:50	1.28e9	1.24e9	4.70e8	4.62e8	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:10	9.96e8	9.48e8	3.21e8	3.03e8	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:43	7.46e7	7.30e7	2.50e7	2.40e7	-----	-----	1.02	
1,2,3,4,6,7,8-HpCDD	37:44	7.89e8	7.49e8	2.59e8	2.40e8	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:31	1.35e9	1.49e9	4.09e8	4.49e8	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:20	1.14e8	1.26e8	3.35e7	3.82e7	-----	-----	0.90	
OCDD	40:20	1.13e9	1.27e9	3.41e8	3.73e8	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR09 (P)
Filename	P140321B_01	GC Column ID	USC473217H
Analyzed	03/21/2014 15:14	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:30	5.48e7	7.04e7	8.80e6	1.14e7	-----	-----	0.78	
2,3,7,8-TCDF	17:31	5.05e6	6.99e6	8.09e5	1.11e6	-----	-----	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	17:39	3.50e7	4.41e7	5.87e6	7.42e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:24	3.50e7	4.44e7	5.41e6	6.87e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:26	8.69e6		1.31e6		-----	-----		
2,3,7,8-TCDD	18:26	3.75e6	5.01e6	5.53e5	7.23e5	-----	-----	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	24:17	5.84e7	3.64e7	7.81e6	4.94e6	-----	-----	1.61	
2,3,4,7,8-PeCDF-13C	26:02	5.74e7	3.66e7	9.66e6	6.06e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	24:18	2.77e7	1.79e7	3.79e6	2.39e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	26:03	2.84e7	1.89e7	4.60e6	2.97e6	-----	-----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:31	3.58e7	2.25e7	5.88e6	3.75e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	26:33	1.12e7	1.84e7	1.90e6	3.00e6	-----	-----	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	30:18	2.30e7	4.38e7	5.30e6	9.98e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	30:27	2.92e7	5.44e7	5.97e6	1.12e7	-----	-----	0.54	
2,3,4,6,7,8-HxCDF-13C	31:13	2.55e7	4.87e7	5.59e6	1.07e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	32:14	2.50e7	4.80e7	4.67e6	8.73e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	30:18	2.13e7	1.72e7	4.83e6	3.87e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	30:29	2.60e7	2.06e7	5.11e6	4.00e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	31:15	2.51e7	1.99e7	5.31e6	4.22e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:14	2.09e7	1.68e7	4.00e6	3.18e6	-----	-----	1.24	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR09 (P)
Filename	P140321B_01	GC Column ID	USC473217H
Analyzed	03/21/2014 15:14	ICAL ID	P130624

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	31:25	2.87e7	2.28e7	7.16e6	5.61e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	31:33	3.57e7	2.87e7	7.60e6	6.05e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	31:52	3.31e7	2.63e7	6.48e6	5.26e6	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	31:26	1.44e7	1.16e7	3.60e6	2.95e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	31:34	1.72e7	1.37e7	3.62e6	2.86e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	31:53	1.66e7	1.31e7	3.20e6	2.61e6	-----	-----	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	33:58	1.91e7	4.18e7	4.54e6	9.96e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:39	1.53e7	3.37e7	3.38e6	7.31e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	2.06e7	1.97e7	4.84e6	4.66e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	35:40	1.64e7	1.59e7	3.65e6	3.58e6	-----	-----	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	35:09	2.49e7	2.38e7	5.23e6	5.03e6	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	35:10	1.31e7	1.26e7	2.84e6	2.73e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	2.40e7	2.65e7	5.24e6	5.68e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	3.92e7	4.46e7	7.97e6	9.30e6	-----	-----	0.88	
OCDD	37:60	1.97e7	2.18e7	4.30e6	4.79e6	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR09 (P)
Filename	P140322B_01	GC Column ID	USC473217H
Analyzed	03/22/2014 12:10	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:27	4.15e7	5.26e7	6.50e6	8.26e6	-----	-----	0.79	
2,3,7,8-TCDF	17:28	3.90e6	5.34e6	6.30e5	8.19e5	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:37	2.66e7	3.34e7	4.37e6	5.38e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:21	2.66e7	3.38e7	3.91e6	5.07e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:23	6.46e6		1.03e6		-----	-----		
2,3,7,8-TCDD	18:23	3.02e6	3.74e6	4.27e5	5.38e5	-----	-----	0.81	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:13	4.21e7	2.67e7	5.58e6	3.46e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	25:59	4.17e7	2.62e7	6.64e6	4.28e6	-----	-----	1.59	
1,2,3,7,8-PeCDF	24:15	2.05e7	1.34e7	2.63e6	1.74e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	26:01	2.10e7	1.33e7	3.35e6	2.15e6	-----	-----	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	26:29	2.56e7	1.61e7	4.20e6	2.68e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	26:31	8.27e6	1.32e7	1.29e6	2.07e6	-----	-----	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	30:16	1.58e7	3.01e7	3.73e6	7.05e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:26	1.98e7	3.79e7	3.88e6	7.48e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:12	1.72e7	3.26e7	3.73e6	7.04e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:12	1.55e7	3.03e7	2.92e6	5.63e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	30:18	1.45e7	1.20e7	3.37e6	2.65e6	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	30:27	1.78e7	1.42e7	3.57e6	2.88e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	31:13	1.67e7	1.32e7	3.79e6	2.96e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	32:14	1.32e7	1.06e7	2.50e6	2.01e6	-----	-----	1.25	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR09 (P)
Filename	P140322B_01	GC Column ID	USC473217H
Analyzed	03/22/2014 12:10	ICAL ID	P130624

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	31:25	1.87e7	1.48e7	4.72e6	3.66e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	31:32	2.43e7	1.97e7	5.18e6	4.21e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	31:51	2.18e7	1.79e7	4.19e6	3.40e6	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	31:25	9.57e6	7.62e6	2.43e6	1.96e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:32	1.20e7	9.46e6	2.45e6	1.91e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD	31:51	1.11e7	8.66e6	2.15e6	1.70e6	-----	-----	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	33:58	1.18e7	2.60e7	2.88e6	6.11e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	8.49e6	1.92e7	1.79e6	4.07e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	1.29e7	1.23e7	3.01e6	2.83e6	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	35:39	9.45e6	9.07e6	2.15e6	2.01e6	-----	-----	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	35:09	1.49e7	1.42e7	3.45e6	3.23e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	35:10	7.98e6	7.42e6	1.78e6	1.64e6	-----	-----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	1.24e7	1.36e7	2.70e6	2.96e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	2.14e7	2.39e7	4.68e6	5.31e6	-----	-----	0.90	
OCDD	38:00	1.09e7	1.23e7	2.38e6	2.59e6	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140328B_02	GC Column ID	USD397111H
Analyzed	03/28/2014 17:55	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:17	2.14e8	2.80e8	3.34e7	4.32e7	-----	-----	0.77	
2,3,7,8-TCDF	21:19	1.78e7	2.32e7	2.70e6	3.49e6	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:35	1.54e8	1.96e8	2.34e7	2.92e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:26	1.49e8	1.90e8	2.15e7	2.73e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:29	3.85e7		5.53e6		-----	-----		
2,3,7,8-TCDD	22:28	1.57e7	2.03e7	2.25e6	2.88e6	-----	-----	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	29:15	2.13e8	1.39e8	3.92e7	2.56e7	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	30:42	2.17e8	1.41e8	5.17e7	3.31e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	29:16	8.55e7	5.60e7	1.57e7	1.04e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	30:42	8.97e7	6.00e7	2.15e7	1.45e7	-----	-----	1.49	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:06	1.51e8	9.69e7	3.74e7	2.37e7	-----	-----	1.56	
1,2,3,7,8-PeCDD	31:08	4.37e7	7.32e7	1.06e7	1.78e7	-----	-----	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	34:00	8.64e7	1.68e8	2.96e7	5.96e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:08	9.36e7	1.82e8	3.06e7	5.88e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:40	8.89e7	1.73e8	3.31e7	6.37e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:25	8.16e7	1.60e8	2.78e7	5.25e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:01	6.68e7	5.54e7	2.25e7	1.88e7	-----	-----	1.21	
1,2,3,6,7,8-HxCDF	34:09	7.24e7	5.96e7	2.39e7	1.92e7	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	34:41	7.28e7	6.13e7	2.60e7	2.18e7	-----	-----	1.19	
1,2,3,7,8,9-HxCDF	35:26	5.82e7	4.75e7	2.01e7	1.61e7	-----	-----	1.23	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-301	Instrument ID	10MSHR06 (U)
Filename	U140328B_02	GC Column ID	USD397111H
Analyzed	03/28/2014 17:55	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:48	1.34e8	1.07e8	4.73e7	3.82e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	34:54	1.45e8	1.16e8	5.03e7	4.04e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:08	1.34e8	1.10e8	4.78e7	3.81e7	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:49	5.91e7	4.76e7	2.28e7	1.83e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	34:55	6.56e7	5.33e7	2.17e7	1.77e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	35:09	6.15e7	4.99e7	2.04e7	1.71e7	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	7.75e7	1.73e8	2.83e7	6.50e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:57	5.83e7	1.29e8	2.18e7	4.75e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:39	8.32e7	8.17e7	3.30e7	3.27e7	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	37:58	6.23e7	6.01e7	2.22e7	2.09e7	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	9.68e7	8.96e7	3.42e7	3.30e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	37:32	5.19e7	4.97e7	1.97e7	1.85e7	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:17	7.43e7	8.33e7	2.20e7	2.48e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:07	1.41e8	1.57e8	4.42e7	5.01e7	-----	-----	0.90	
OCDD	40:08	6.96e7	7.86e7	2.13e7	2.32e7	-----	-----	0.89	

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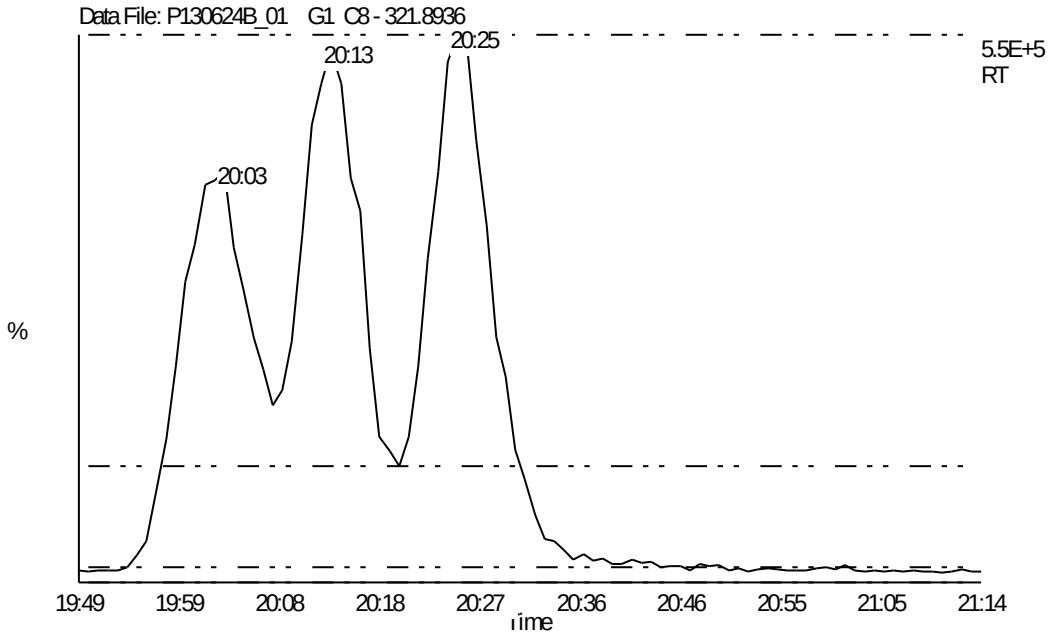
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-272	Injected By	SMT	
Raw Data File	P130624B_01	Instrument ID	10MSHR09 (P)	
Date Analyzed	6/24/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	09:59	GC Column S/N	USC473217H	
Resolution	**18.9%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	15:23	22:00
PeCDF	341.8567	21:52	29:01
HxCDF	373.8207	29:59	33:22
HpCDF	407.7818	35:01	36:40
OCDF	441.7428	39:06	0:00
TCDD	321.8936	16:44	21:43
PeCDD	357.8517	24:41	28:40
HxCDD	391.8127	30:44	33:01
HpCDD	425.7737	35:21	36:10
OCDD	459.7347	38:56	0:00
1234-TCDD-13C(RS)	331.9367	19:35	0:00
123789-HxCDD-13C(RS)	401.8559	33:00	0:00

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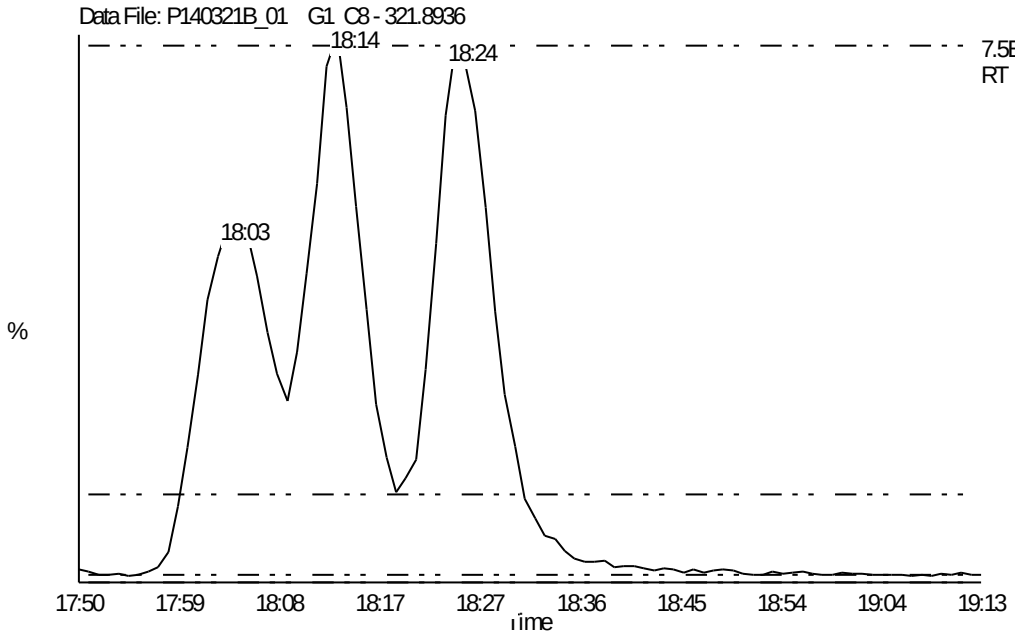
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	BAL	
Raw Data File	P140321B_01	Instrument ID	10MSHR09 (P)	
Date Analyzed	3/21/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	15:14	GC Column S/N	USC473217H	
Resolution	**15.3%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	13:53	19:49
PeCDF	341.8567	19:45	27:30
HxCDF	373.8207	28:37	32:14
HpCDF	407.7818	33:59	35:39
OCDF	441.7428	38:07	0:00
TCDD	321.8936	15:06	19:35
PeCDD	357.8517	22:26	27:08
HxCDD	391.8127	29:26	31:51
HpCDD	425.7737	34:20	35:09
OCDD	459.7347	37:59	0:00
1234-TCDD-13C(RS)	331.9367	17:39	0:00
123789-HxCDD-13C(RS)	401.8559	31:51	0:00

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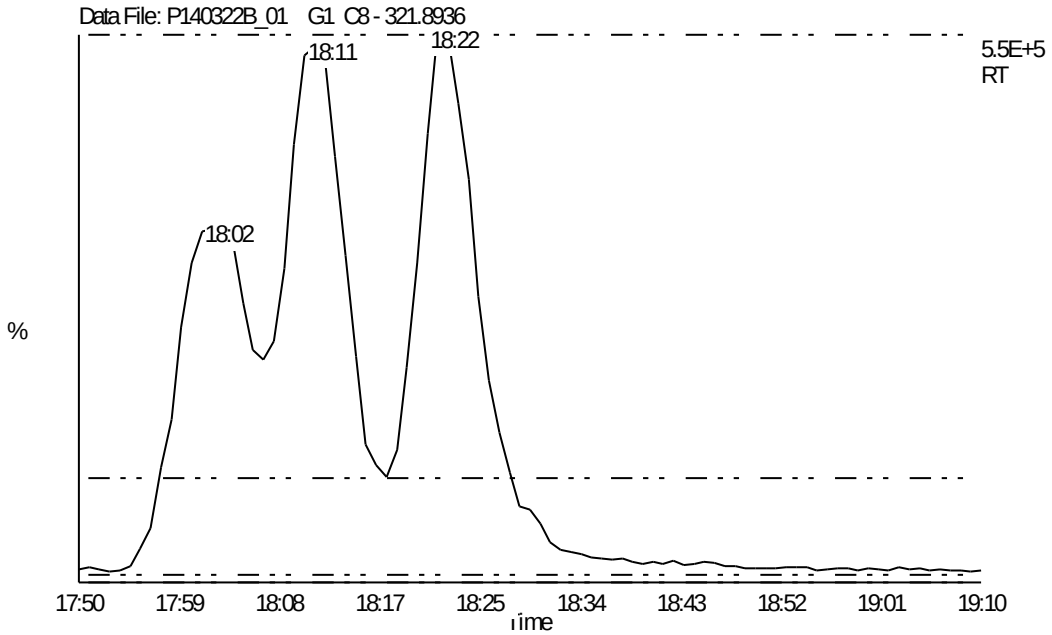
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	BAL	
Raw Data File	P140322B_01	Instrument ID	10MSHR09 (P)	
Date Analyzed	3/22/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	12:10	GC Column S/N	USC473217H	
Resolution	**17.8%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	13:52	19:47
PeCDF	341.8567	19:41	27:28
HxCDF	373.8207	28:35	32:13
HpCDF	407.7818	33:58	35:39
OCDF	441.7428	38:07	0:00
TCDD	321.8936	15:06	19:32
PeCDD	357.8517	22:21	27:06
HxCDD	391.8127	29:26	31:51
HpCDD	425.7737	34:19	35:09
OCDD	459.7347	38:00	0:00
1234-TCDD-13C(RS)	331.9367	17:36	0:00
123789-HxCDD-13C(RS)	401.8559	31:50	0:00

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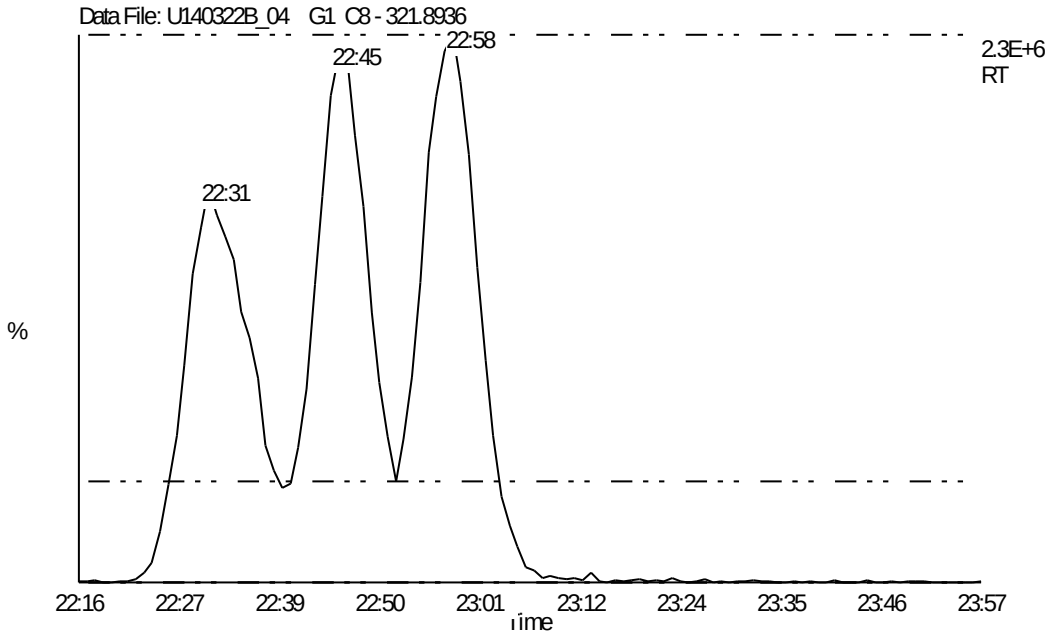
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	BAL	
Raw Data File	U140322B_04	Instrument ID	10MSHR06 (U)	
Date Analyzed	3/22/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	15:20	GC Column S/N	USD397111H	
Resolution	**18.5%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	17:11	24:47
PeCDF	341.8567	24:42	0:00
HxCDF	373.8207	33:00	35:36
HpCDF	407.7818	36:50	38:09
OCDF	441.7428	40:29	0:00
TCDD	321.8936	18:45	24:28
PeCDD	357.8517	28:02	31:53
HxCDD	391.8127	33:36	35:20
HpCDD	425.7737	37:04	37:43
OCDD	459.7347	40:19	0:00
1234-TCDD-13C(RS)	331.9367	22:03	0:00
123789-HxCDD-13C(RS)	401.8559	35:20	0:00

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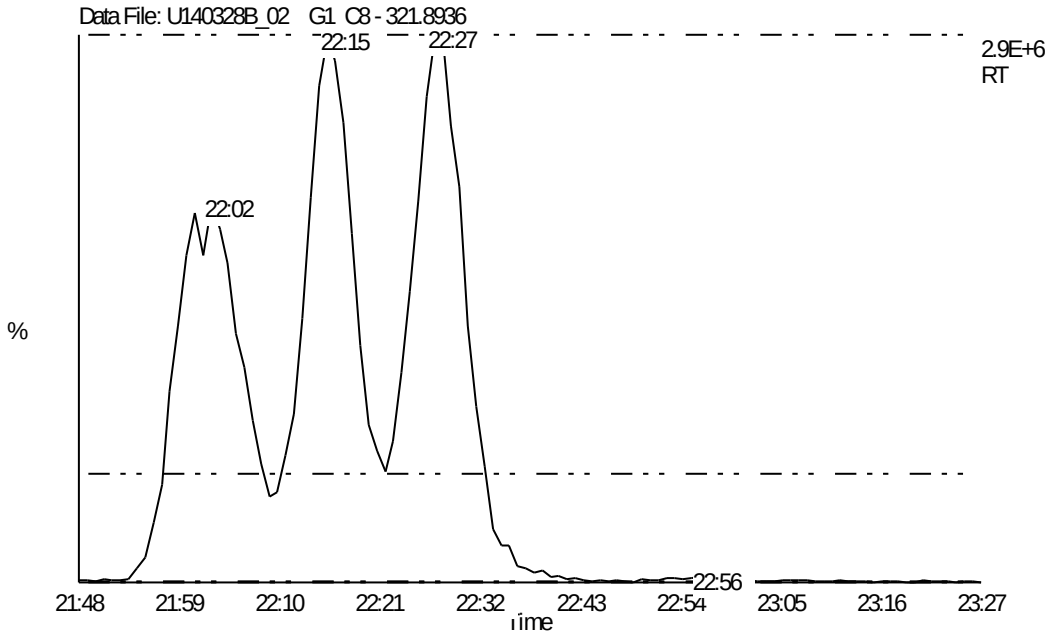
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-301	Injected By	BAL	
Raw Data File	U140328B_02	Instrument ID	10MSHR06 (U)	
Date Analyzed	3/28/2014	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	17:55	GC Column S/N	USD397111H	
Resolution	**19.8%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	16:49	24:13
PeCDF	341.8567	24:09	31:53
HxCDF	373.8207	32:45	35:25
HpCDF	407.7818	36:39	37:58
OCDF	441.7428	40:17	0:00
TCDD	321.8936	18:23	23:56
PeCDD	357.8517	27:29	31:36
HxCDD	391.8127	33:22	35:08
HpCDD	425.7737	36:54	37:32
OCDD	459.7347	40:07	0:00
1234-TCDD-13C(RS)	331.9367	21:34	0:00
123789-HxCDD-13C(RS)	401.8559	35:08	0:00

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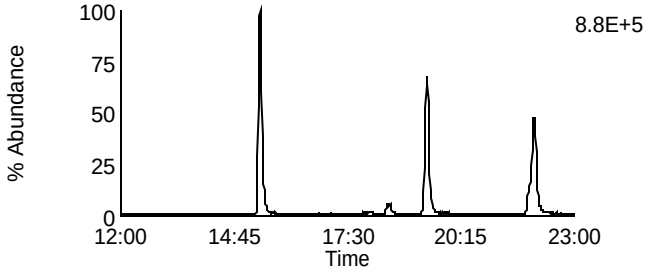
Homologue Group: Tetras

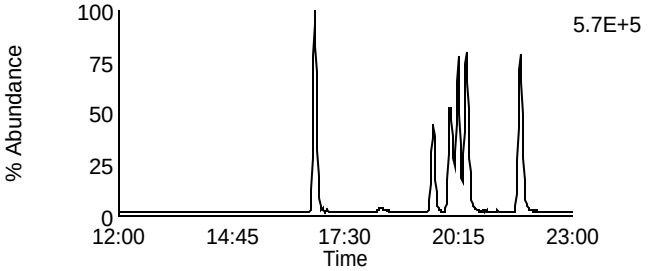
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

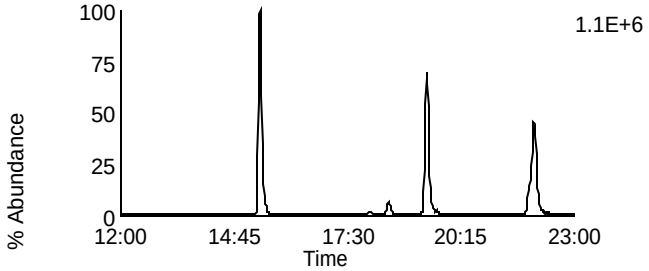
Data File: P130624B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-272 - SMT AS Ca



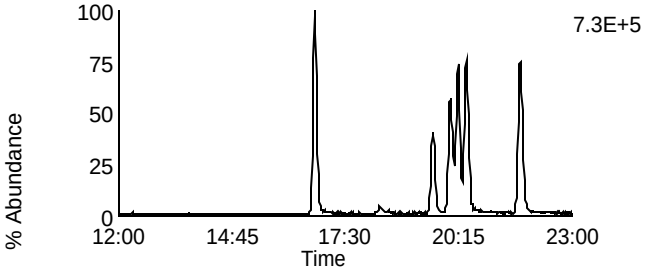
Data File: P130624B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-272 - SMT AS Ca



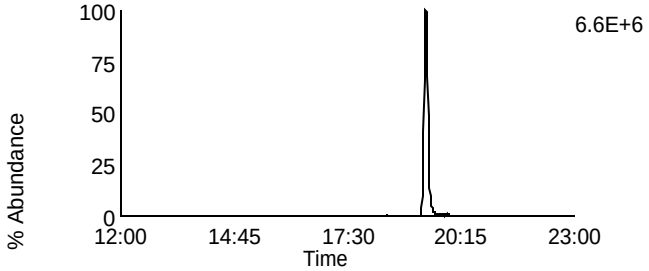
Data File: P130624B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-272 - SMT AS Ca



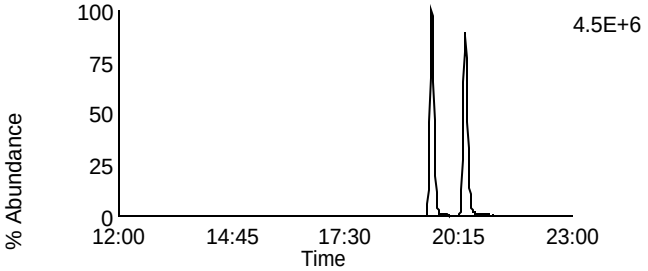
Data File: P130624B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-272 - SMT AS Ca



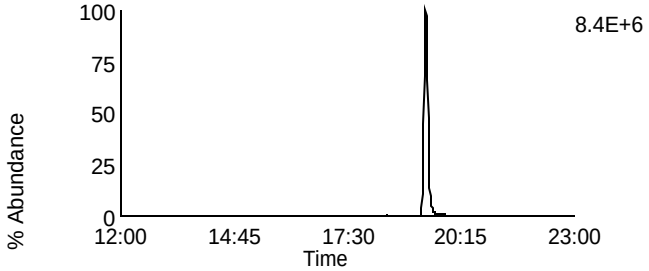
Data File: P130624B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-272 - SMT AS Ca



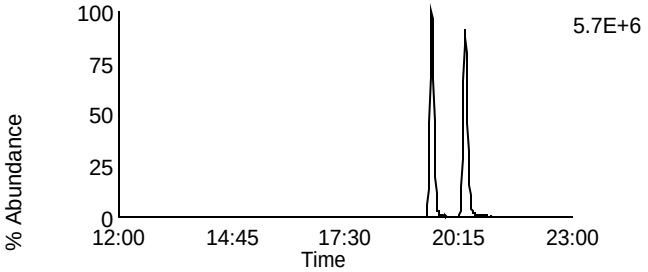
Data File: P130624B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-272 - SMT AS Ca



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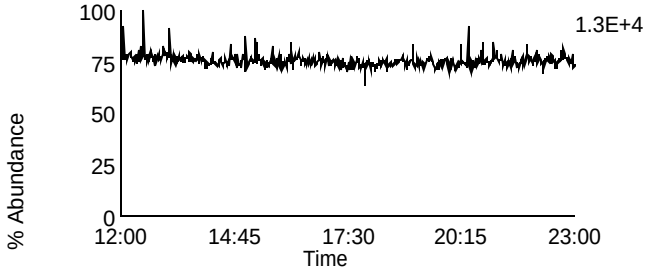
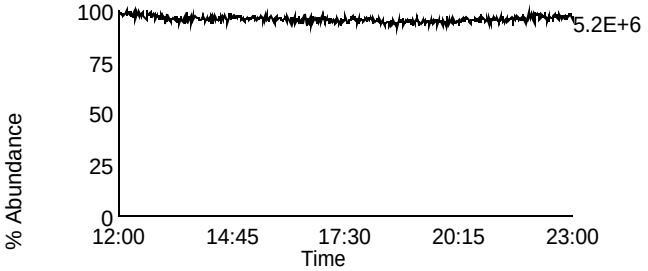
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

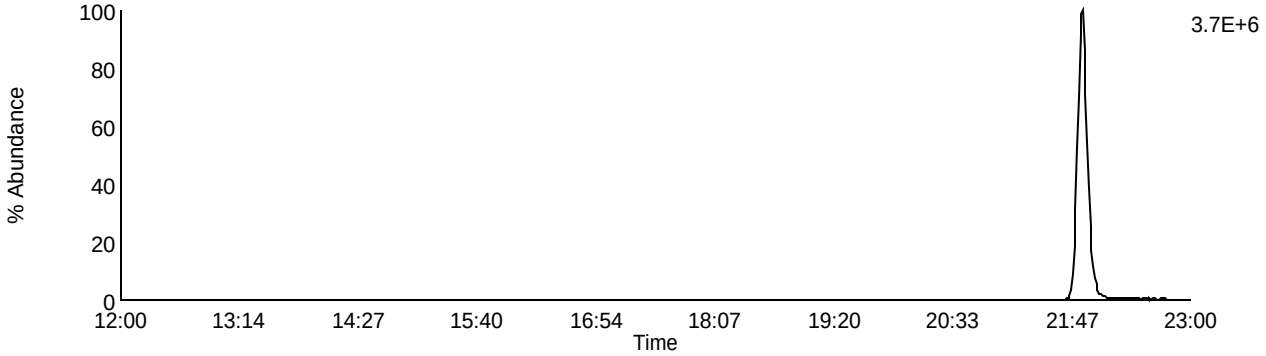


Homologue Group: Penta & Cleanup

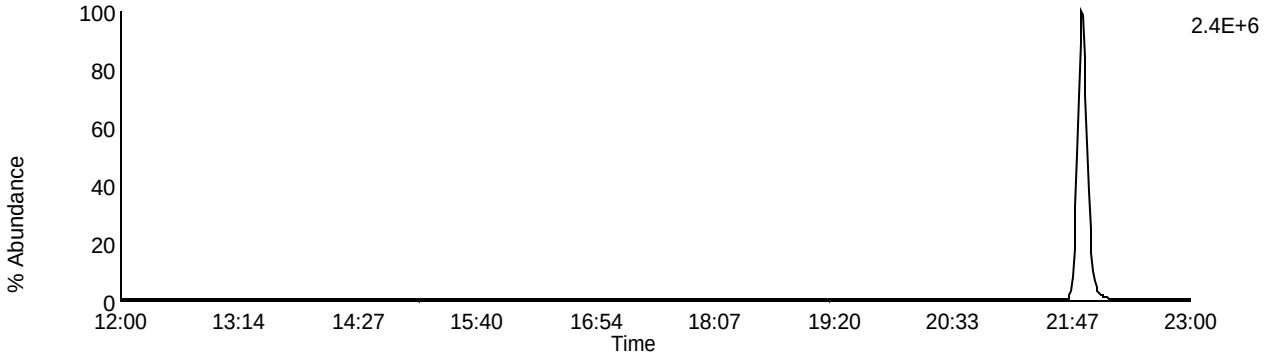
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

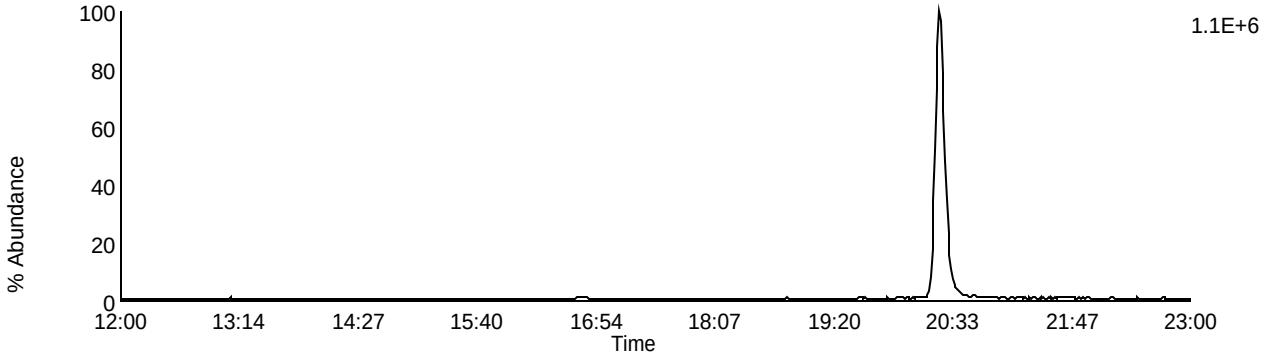
Data File: P130624B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-272 - SMT AS Ca



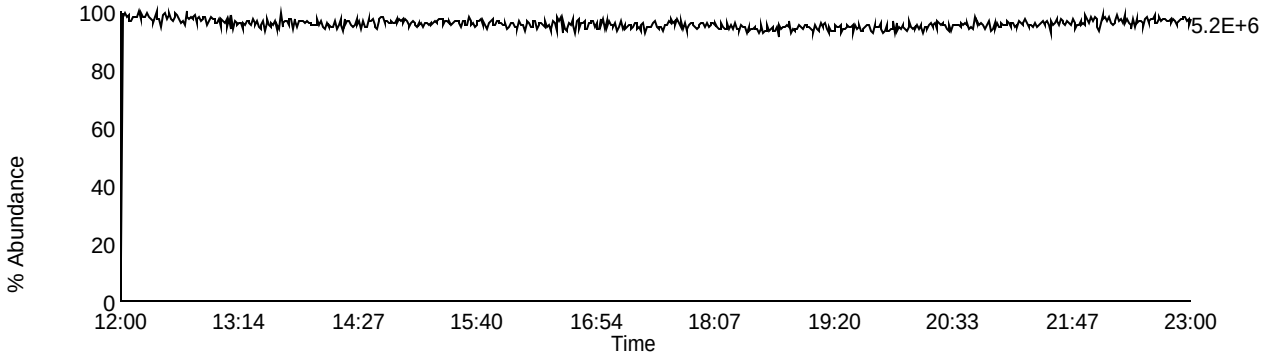
Data File: P130624B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

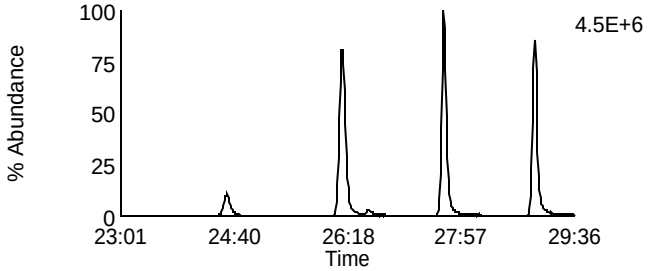


Homologue Group: Pentas

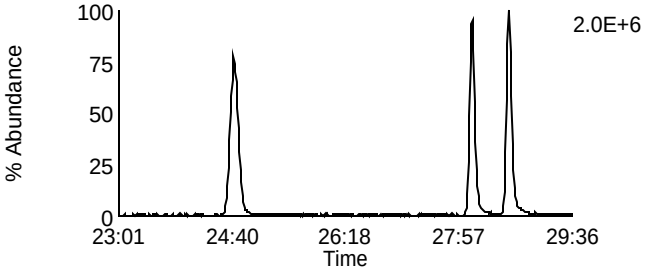
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

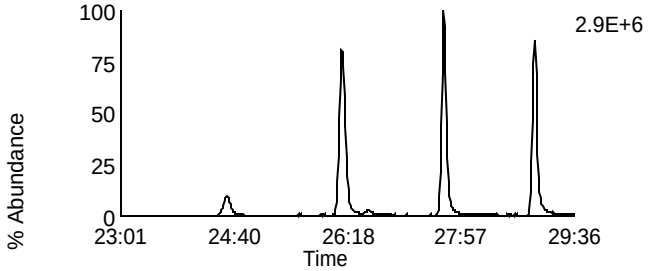
Data File: P130624B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-272 - SMT AS Ca



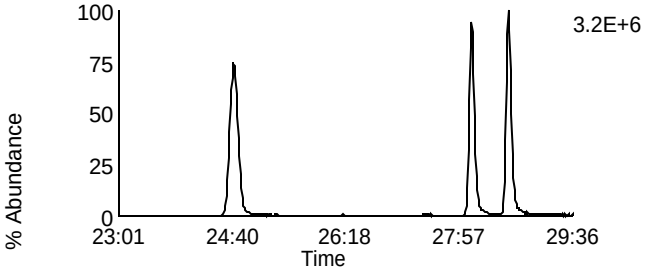
Data File: P130624B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-272 - SMT AS Ca



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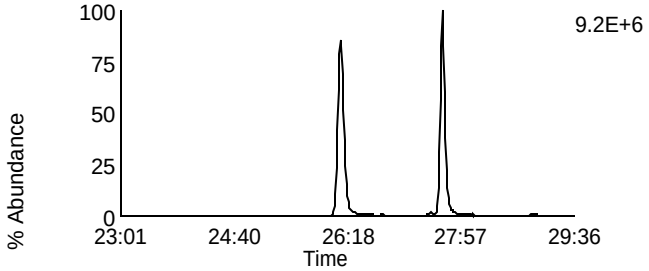
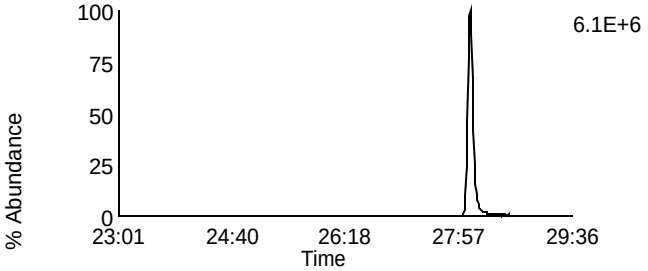
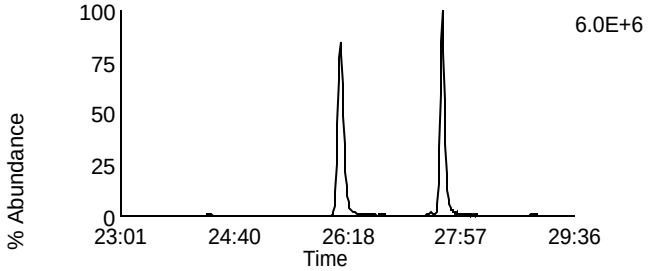
CAL CS3/CPM-7604-272 - SMT AS Ca



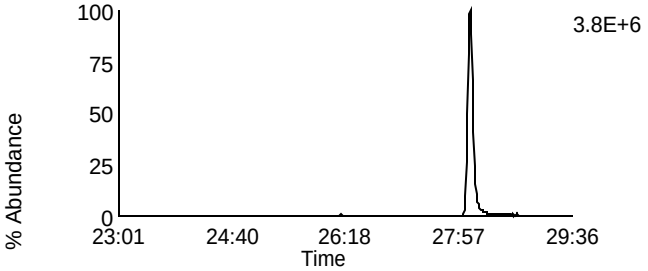
Data File: P130624B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-272 - SMT AS Ca



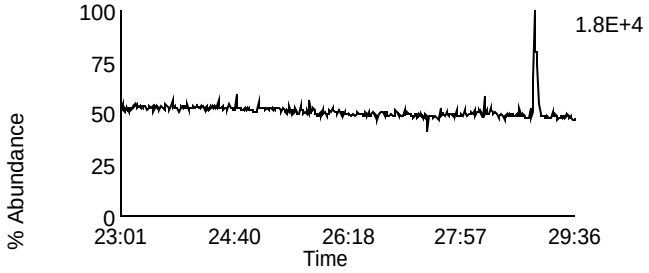
Data File: P130624B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-272 - SMT AS Ca



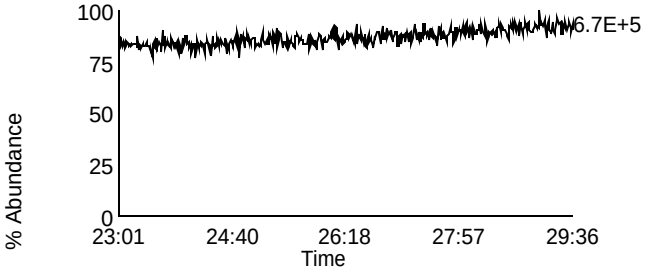
Data File: P130624B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-272 - SMT AS Ca

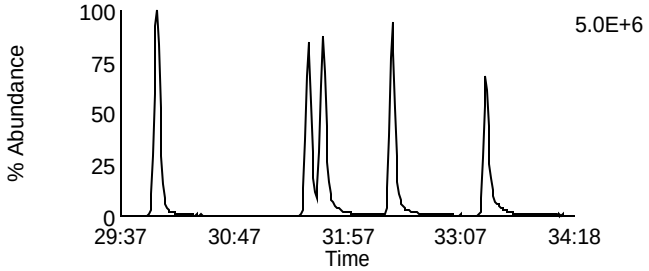


Homologue Group: Hexas

Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

Data File: P130624B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-272 - SMT AS Ca



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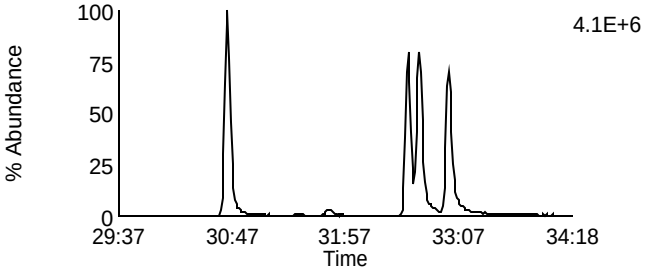
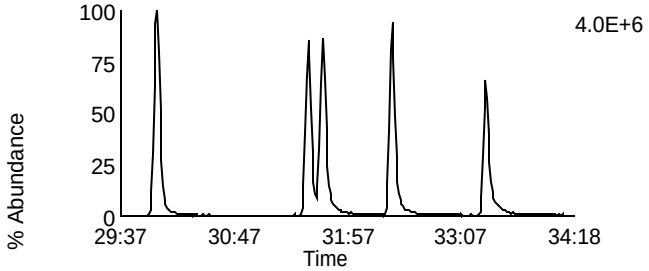
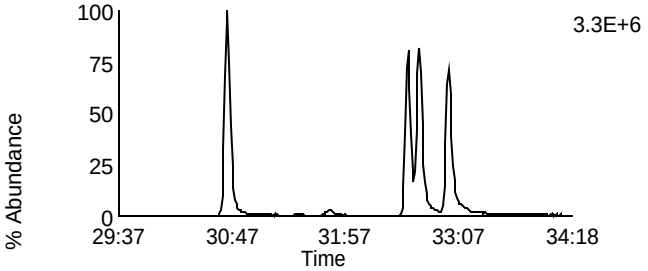
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-272 - SMT AS Ca



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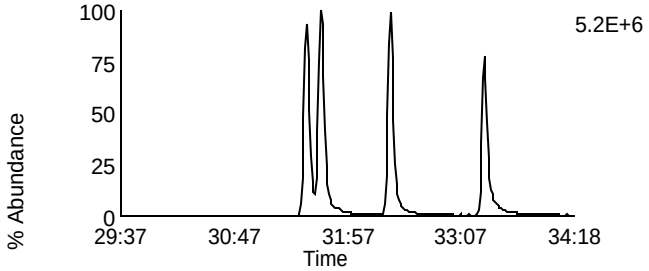
CAL CS3/CPM-7604-272 - SMT AS Ca



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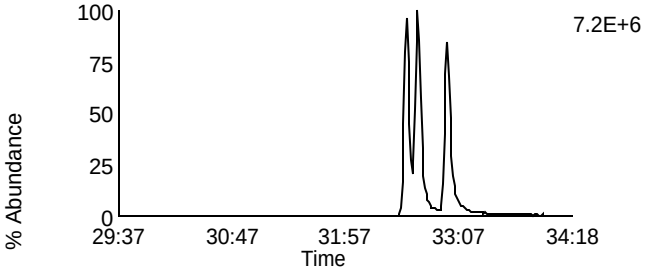
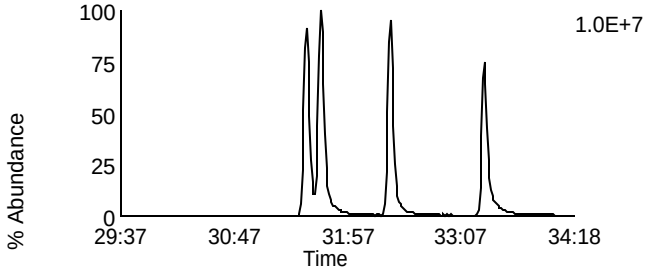
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-272 - SMT AS Ca



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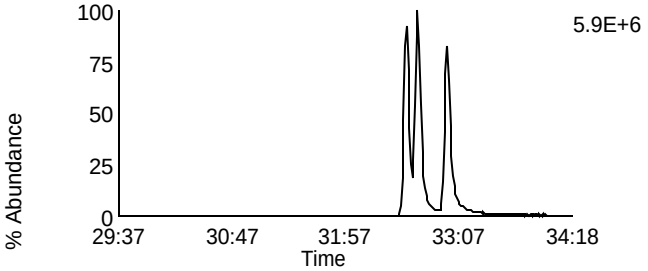
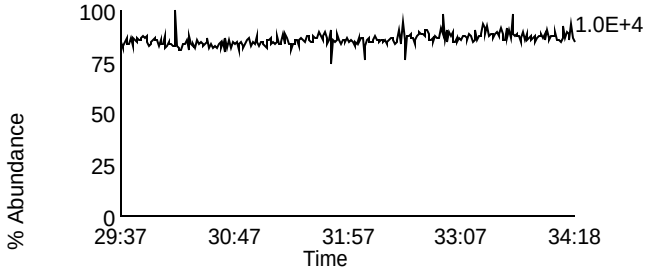
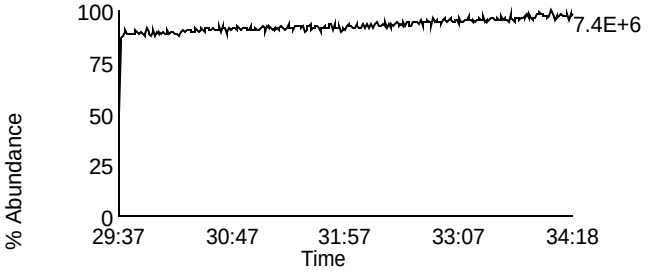
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-272 - SMT AS Ca

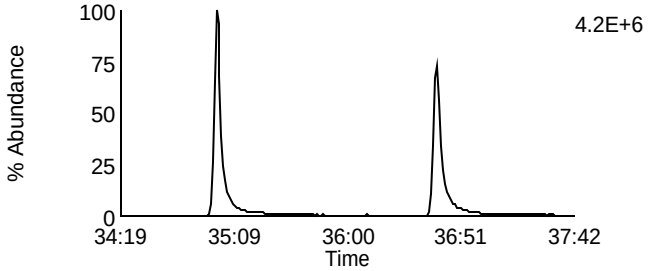


Homologue Group: Heptas

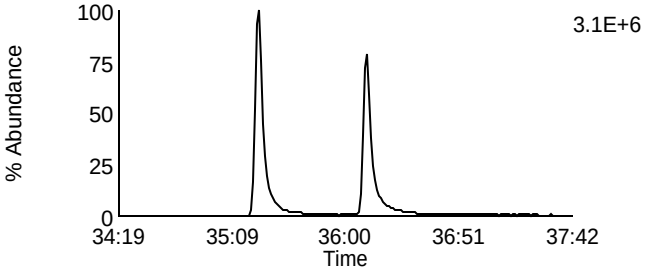
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

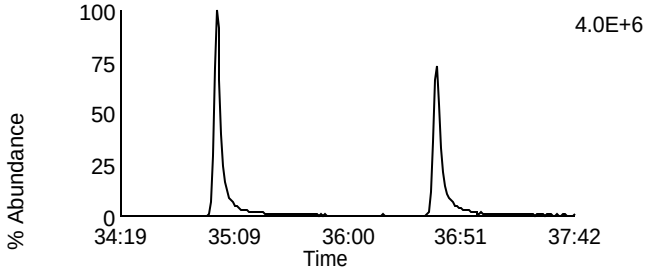
Data File: P130624B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-272 - SMT AS Ca



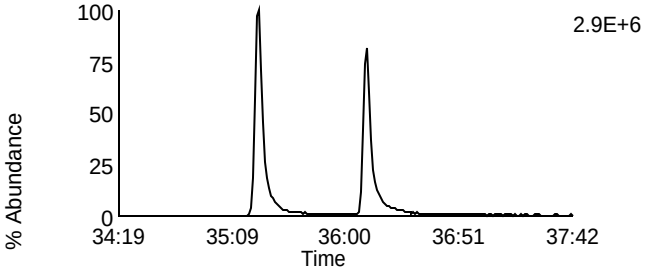
Data File: P130624B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-272 - SMT AS Ca



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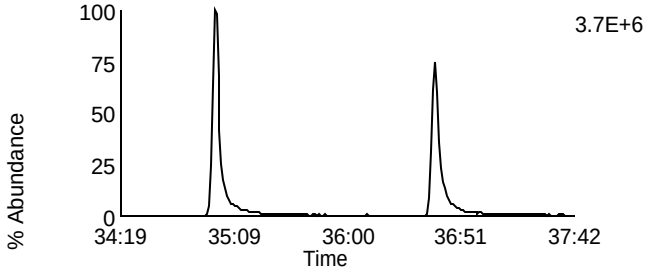
CAL CS3/CPM-7604-272 - SMT AS Ca



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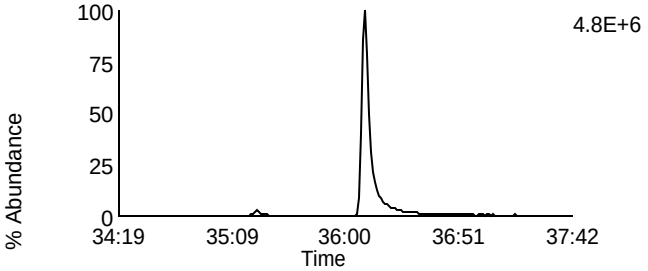
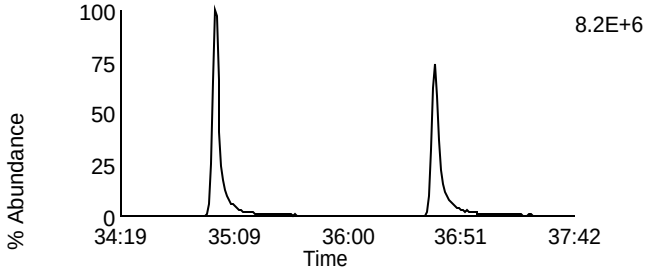
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-272 - SMT AS Ca



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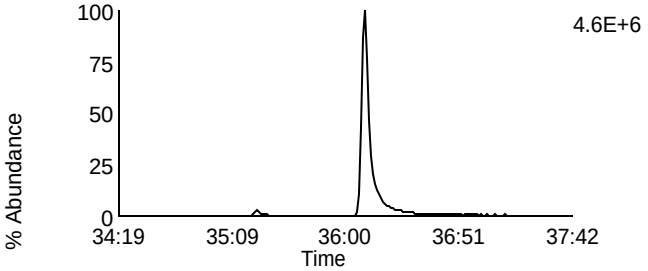
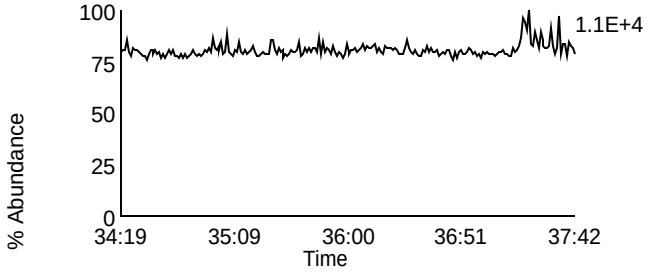
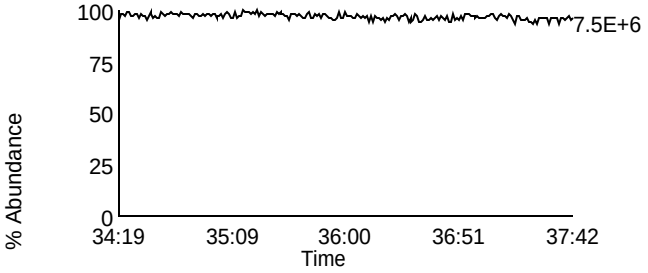
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-272 - SMT AS Ca

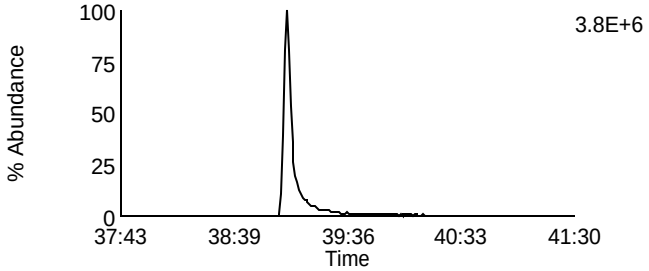


Homologue Group: Octas

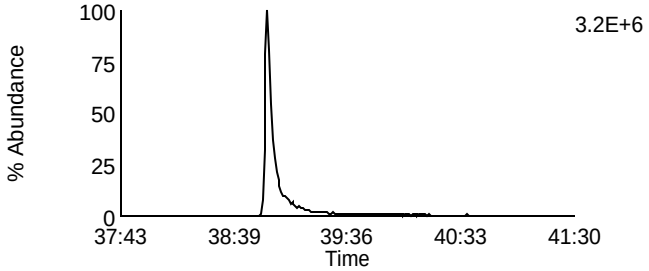
Data File Name: P130624B_01
Date Acquired: 6/24/2013
Sample Description: CAL CS3/CPM-7604-272 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-272
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

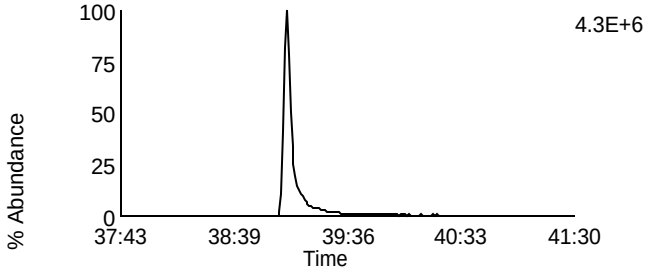
Data File: P130624B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-272 - SMT AS Ca



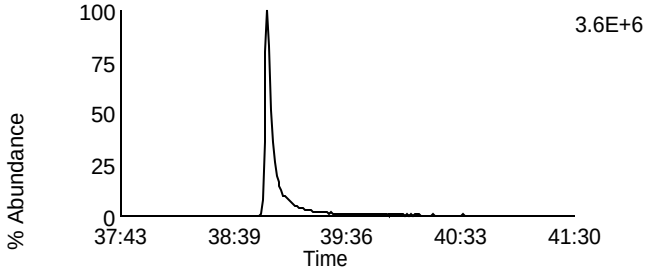
Data File: P130624B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-272 - SMT AS Ca



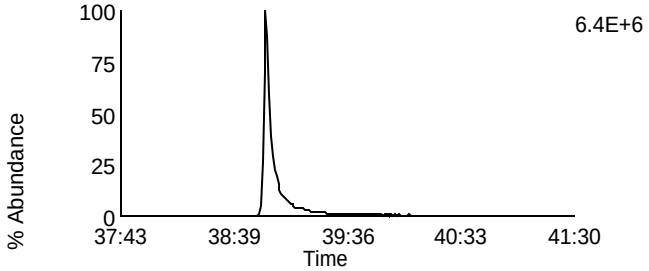
Data File: P130624B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-272 - SMT AS Ca



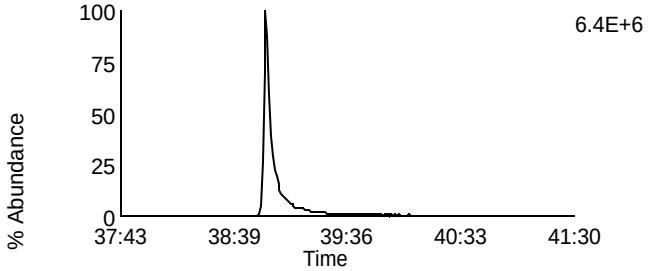
Data File: P130624B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-272 - SMT AS Ca



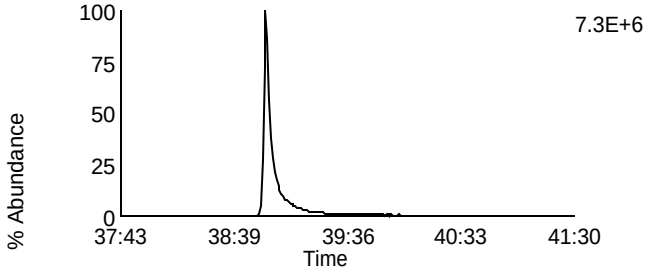
Data File: P130624B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-272 - SMT AS Ca



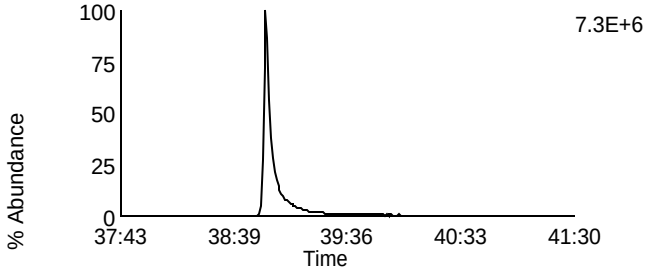
Data File: P130624B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-272 - SMT AS Ca



Data File: P130624B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-272 - SMT AS Ca



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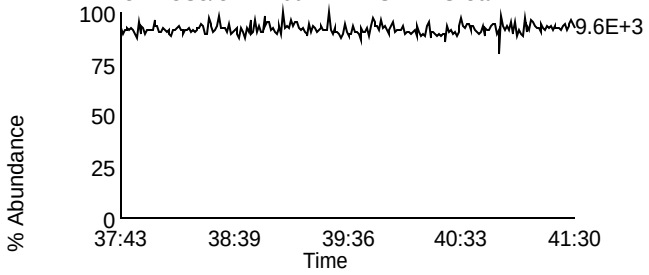
CAL CS3/CPM-7604-272 - SMT AS Ca



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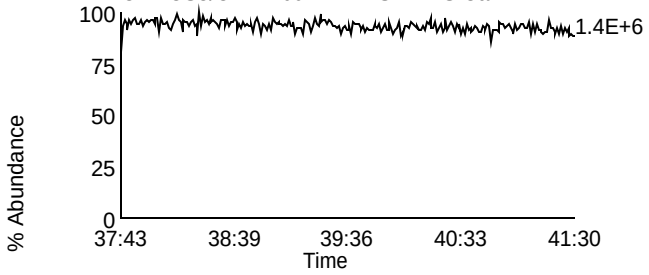
CAL CS3/CPM-7604-272 - SMT AS Ca

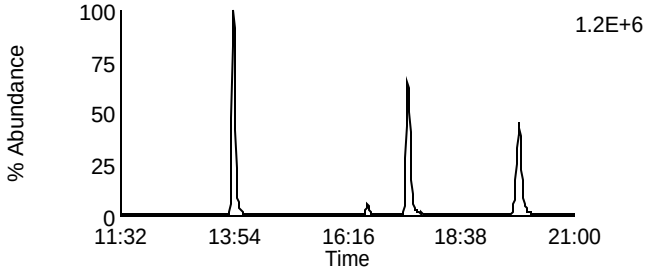


Homologue Group: Tetras

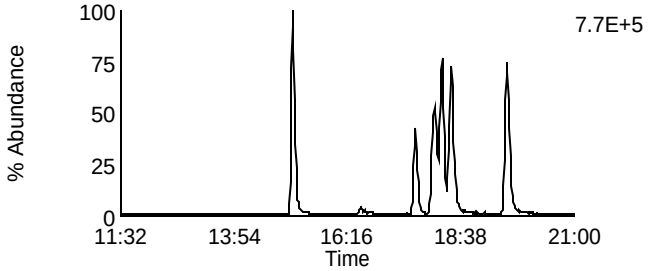
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

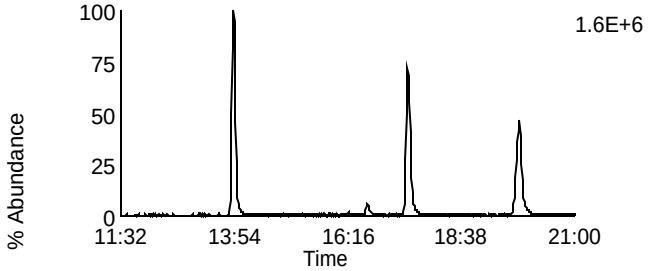
Data File: P140321B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL TC



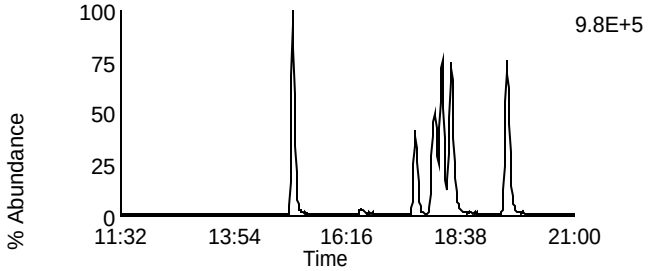
Data File: P140321B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL TC



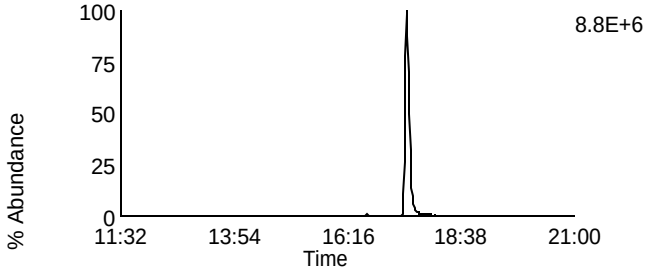
Data File: P140321B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL TC



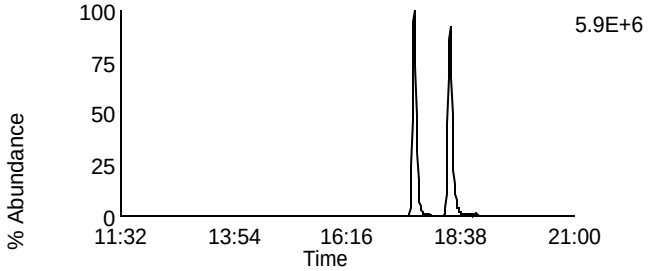
Data File: P140321B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL TC



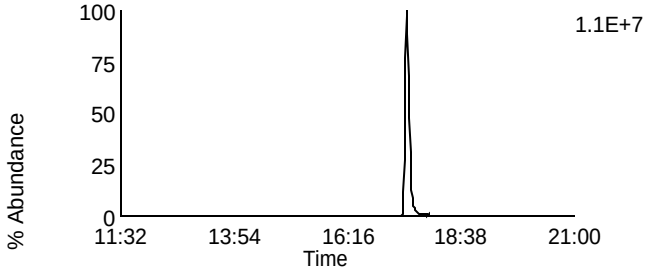
Data File: P140321B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL TC



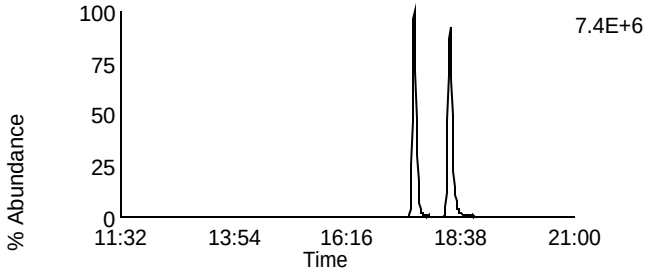
Data File: P140321B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL TC



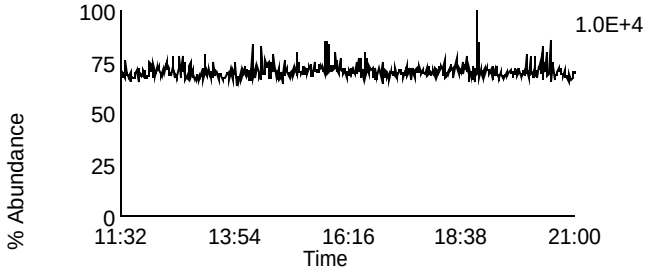
Data File: P140321B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL TC



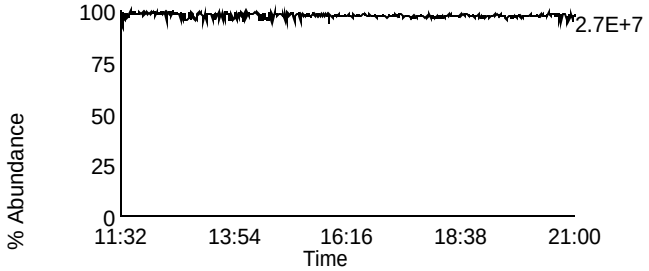
Data File: P140321B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL TC

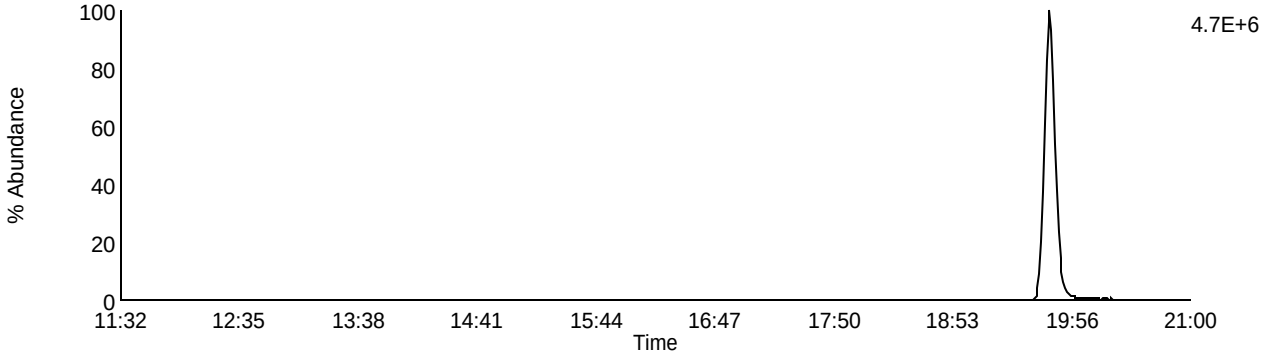


Homologue Group: Penta & Cleanup

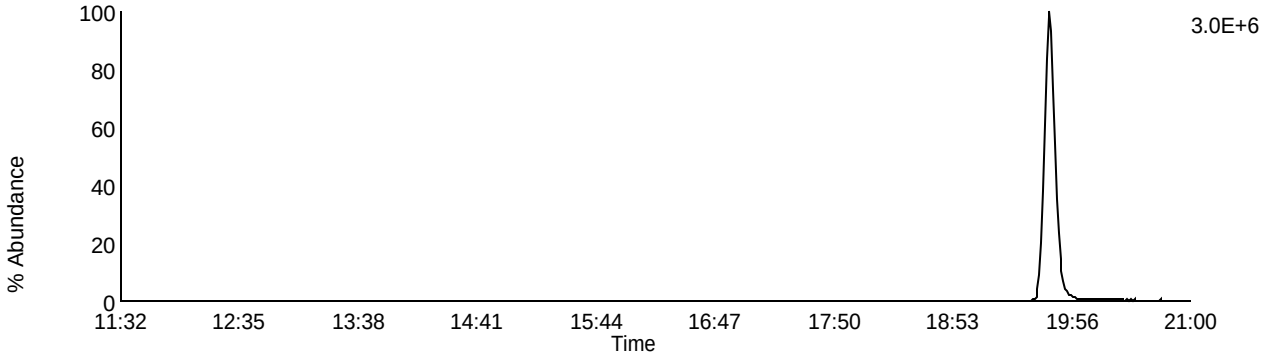
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

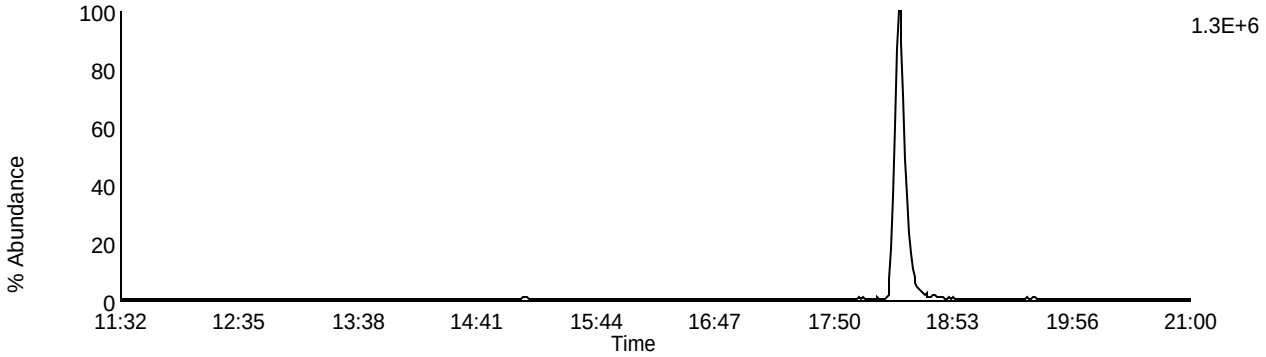
Data File: P140321B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL TC



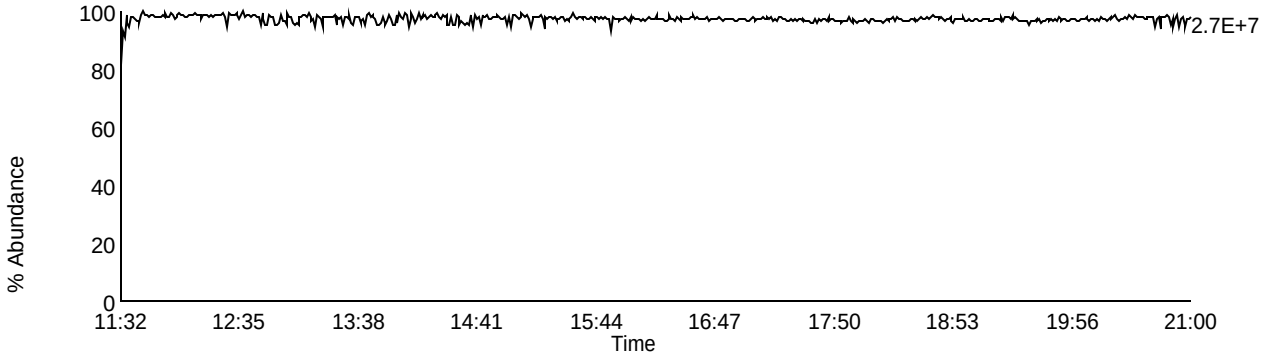
Data File: P140321B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL TC

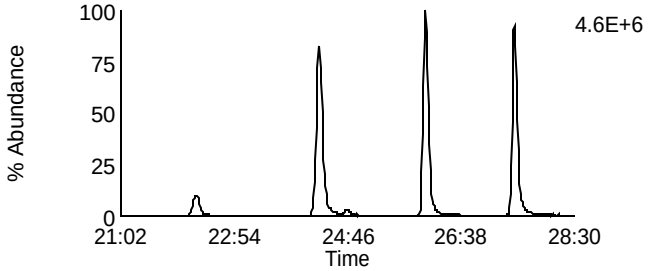


Homologue Group: Pentas

Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

Data File: P140321B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL TC



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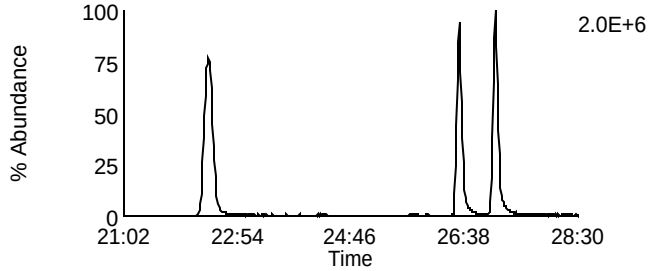
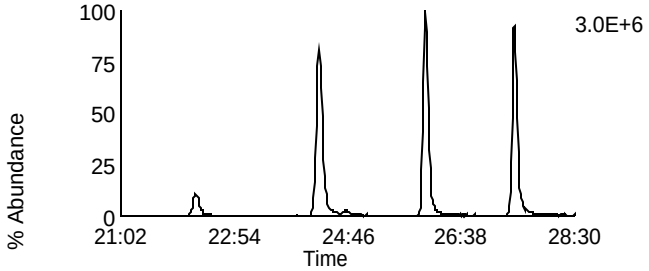
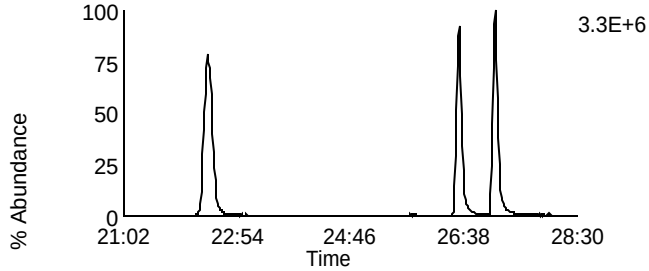
CAL CS3/CPM-7604-301 - BAL TC



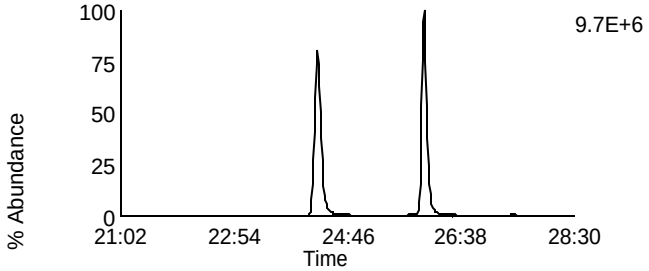
Data File: P140321B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL TC



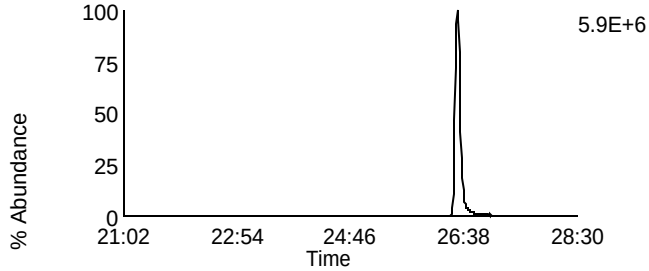
Data File: P140321B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL TC



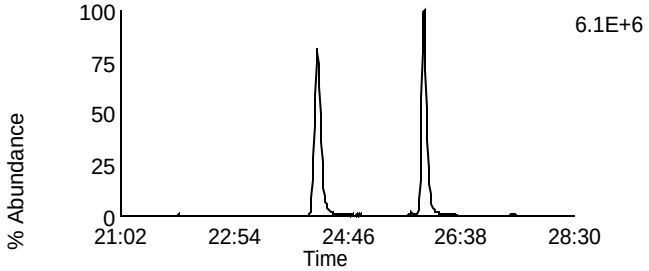
Data File: P140321B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL TC



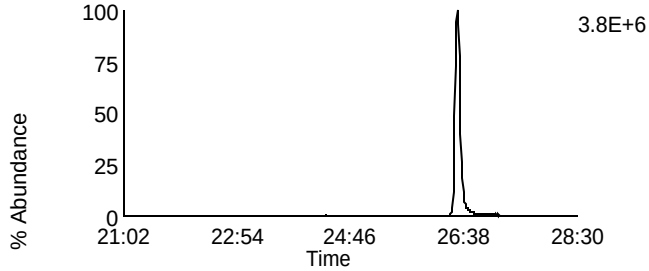
Data File: P140321B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL TC



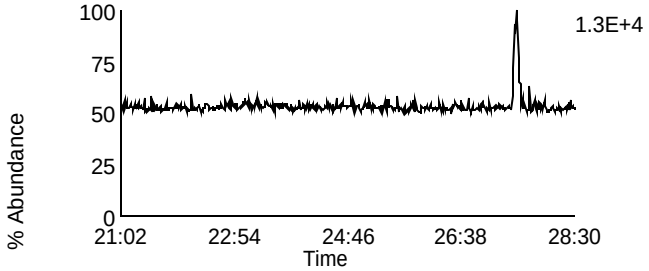
Data File: P140321B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL TC



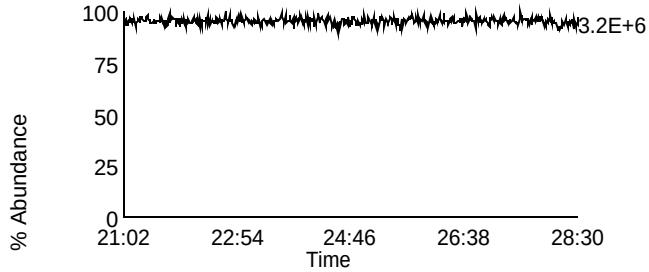
Data File: P140321B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL TC

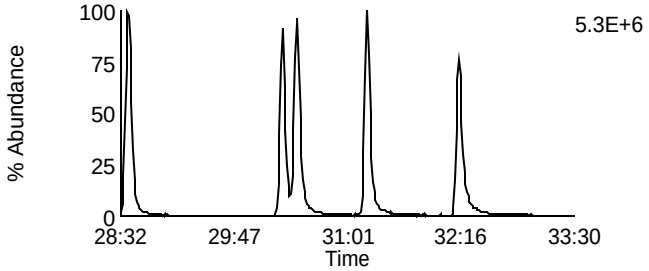


Homologue Group: Hexas

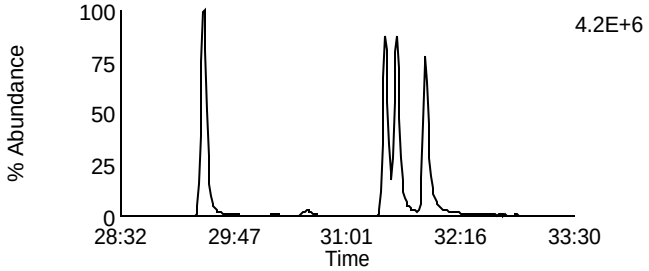
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

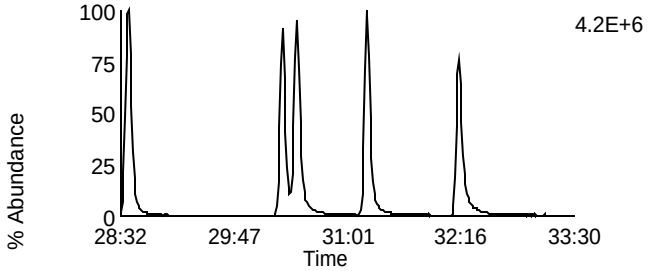
Data File: P140321B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL TC



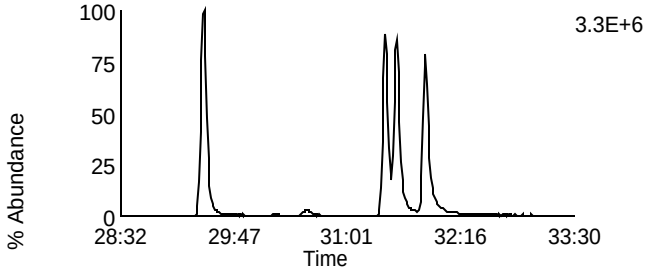
Data File: P140321B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL TC



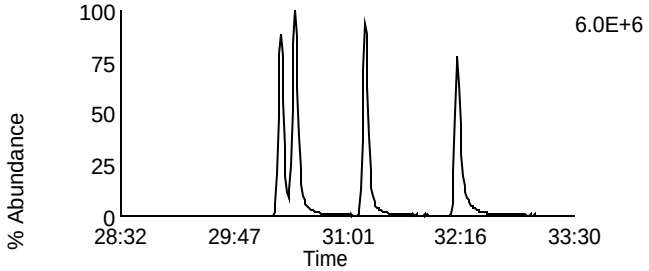
Data File: P140321B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL TC



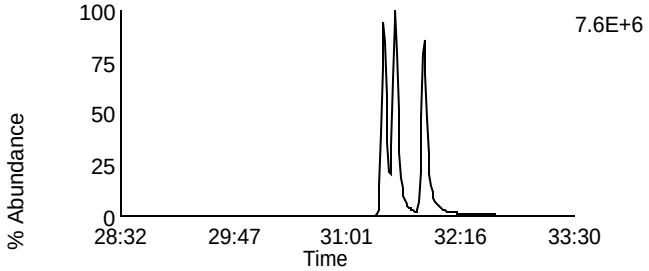
Data File: P140321B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL TC



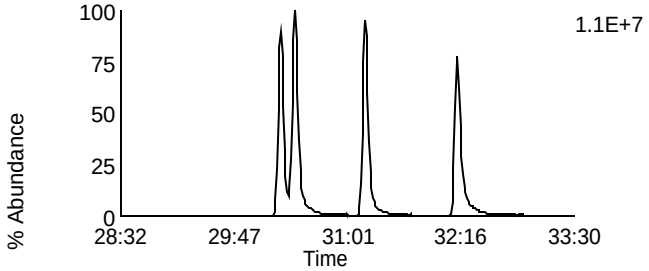
Data File: P140321B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL TC



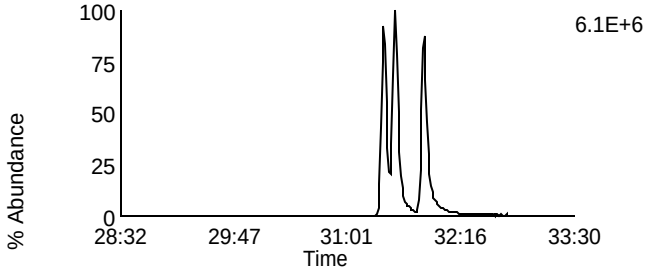
Data File: P140321B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL TC



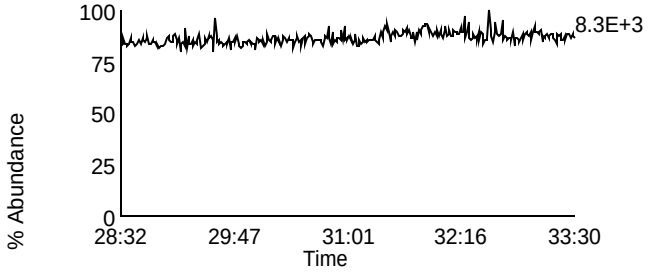
Data File: P140321B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL TC



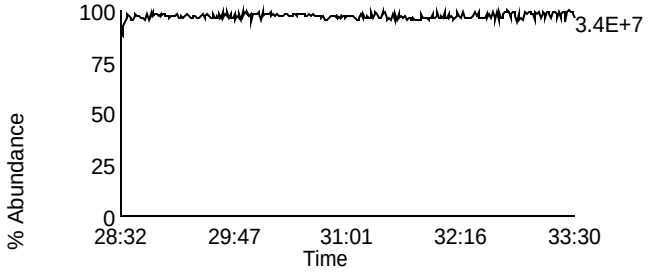
Data File: P140321B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL TC

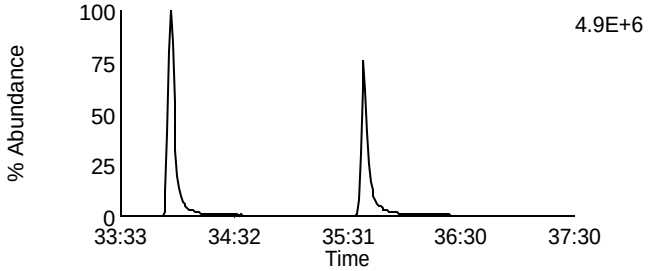


Homologue Group: Heptas

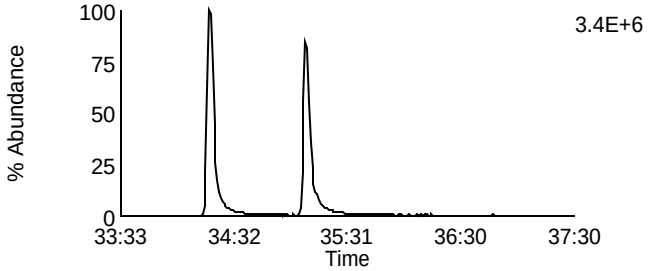
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

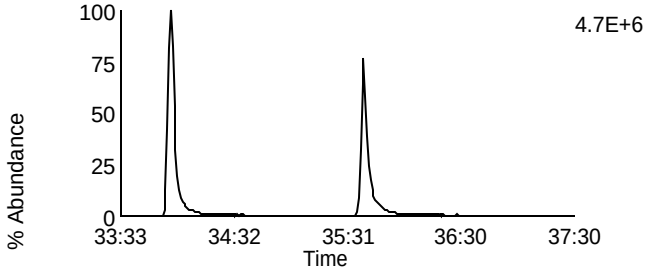
Data File: P140321B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL TC



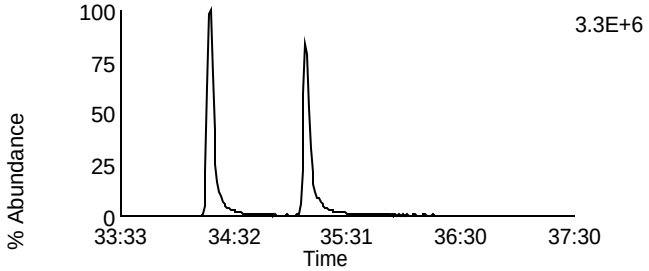
Data File: P140321B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL TC



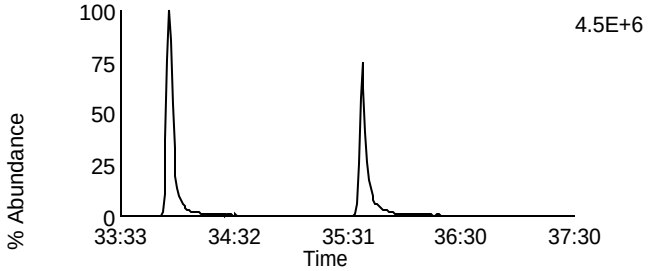
Data File: P140321B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL TC



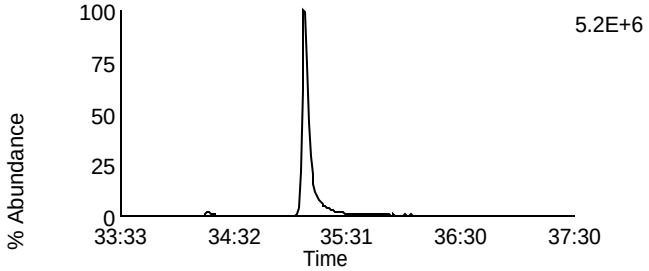
Data File: P140321B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL TC



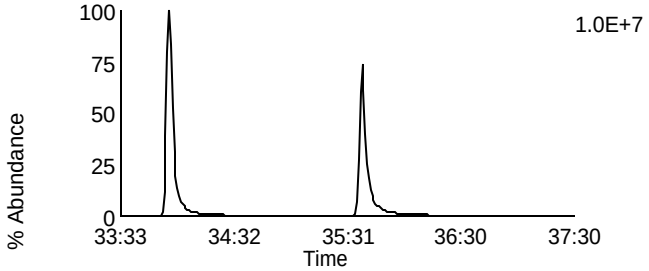
Data File: P140321B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL TC



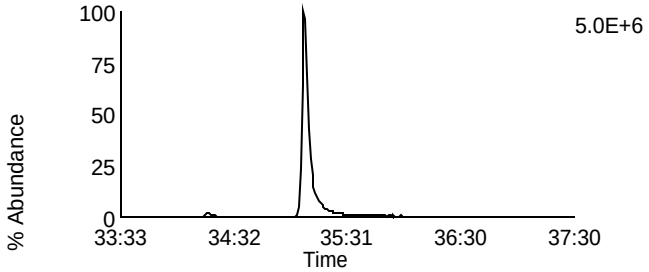
Data File: P140321B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL TC



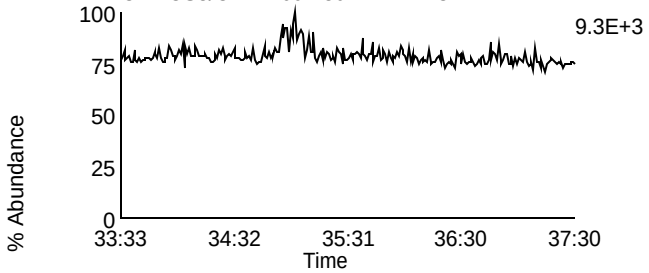
Data File: P140321B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL TC



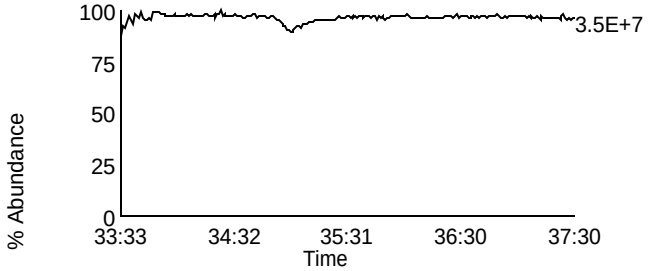
Data File: P140321B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL TC

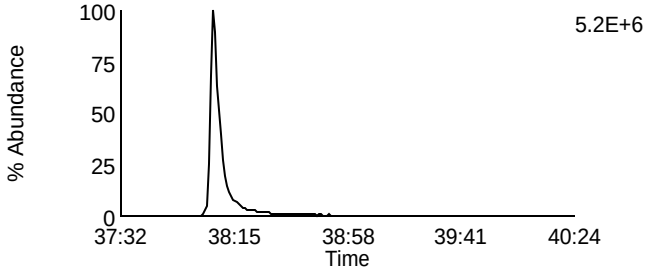


Homologue Group: Octas

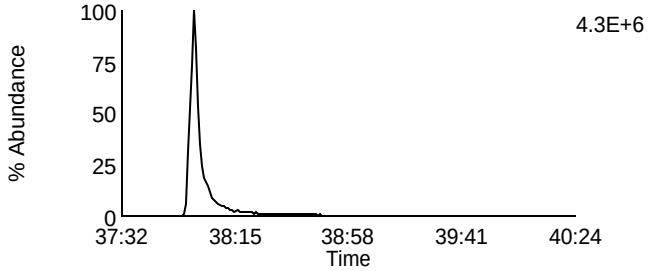
Data File Name: P140321B_01
Date Acquired: 3/21/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

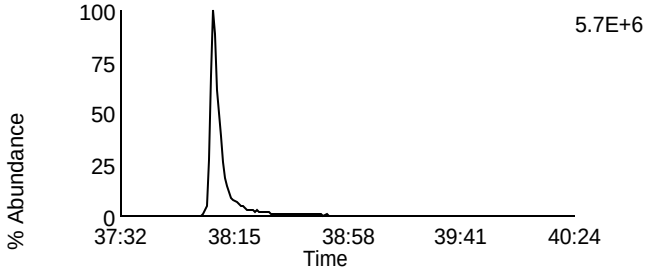
Data File: P140321B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL TC



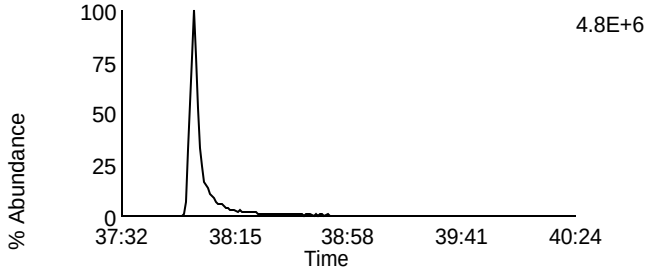
Data File: P140321B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL TC



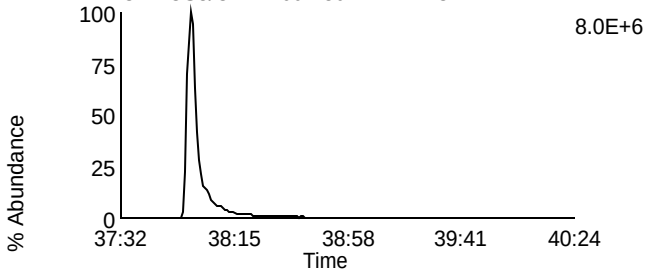
Data File: P140321B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL TC



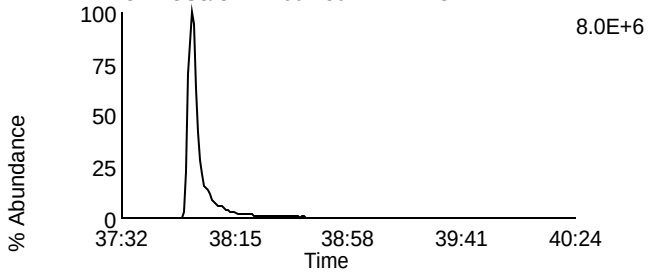
Data File: P140321B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL TC



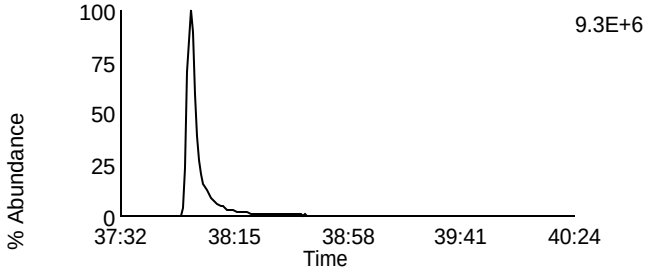
Data File: P140321B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL TC



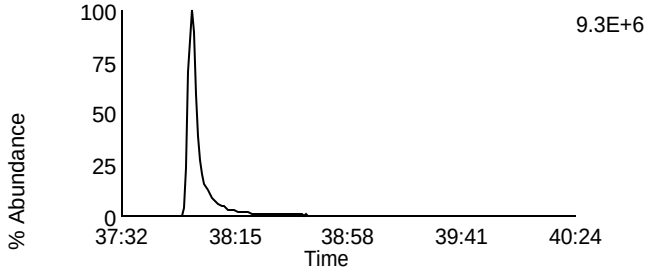
Data File: P140321B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL TC



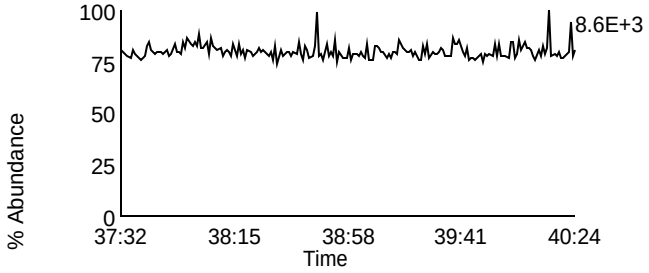
Data File: P140321B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL TC



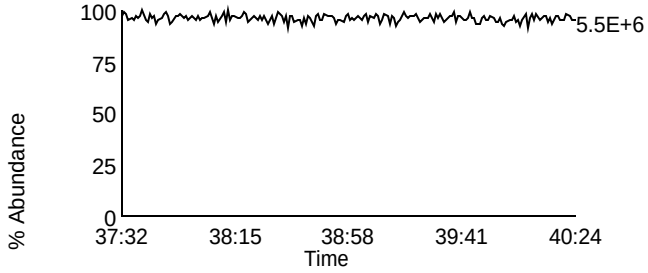
Data File: P140321B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL TC



Data File: P140321B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL TC

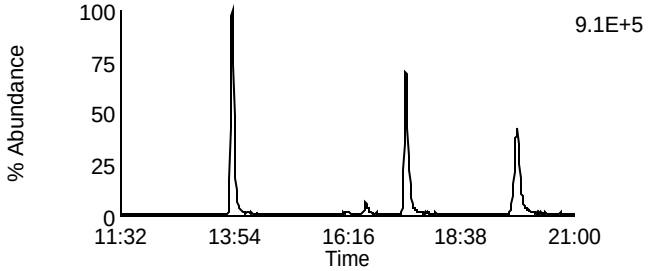


Homologue Group: Tetras

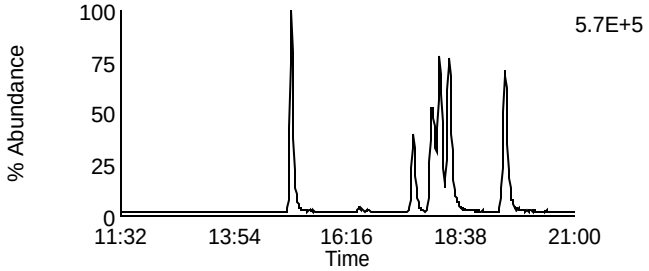
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

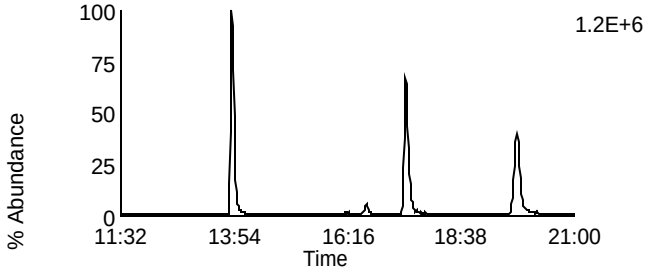
Data File: P140322B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL PFK TC



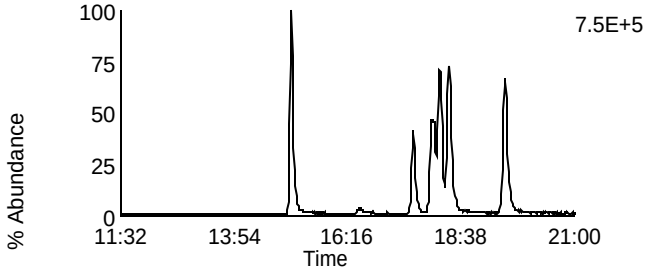
Data File: P140322B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL PFK TC



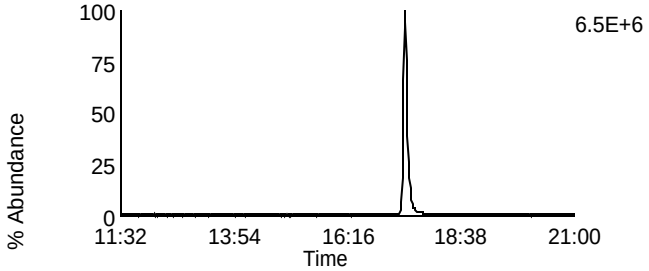
Data File: P140322B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL PFK TC



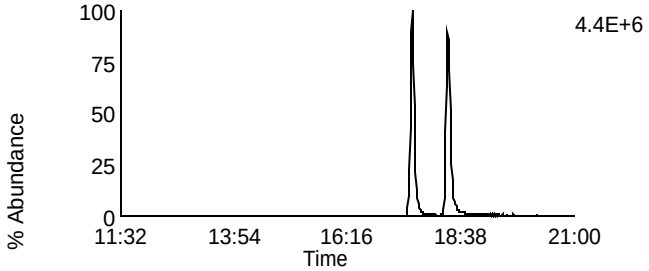
Data File: P140322B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL PFK TC



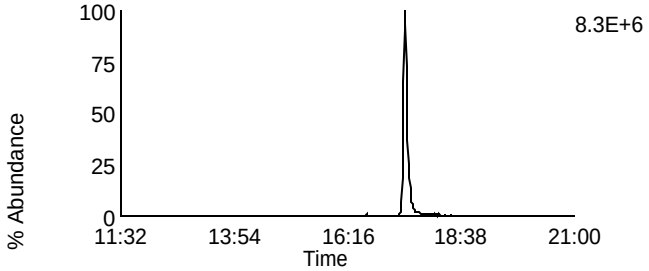
Data File: P140322B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL PFK TC



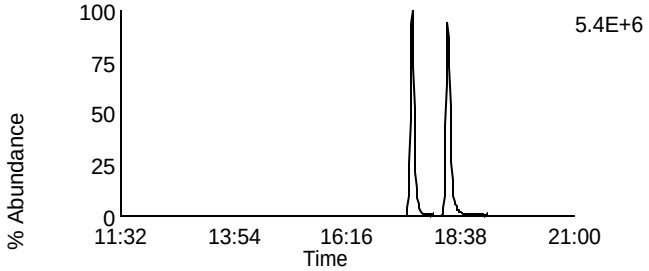
Data File: P140322B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL PFK TC



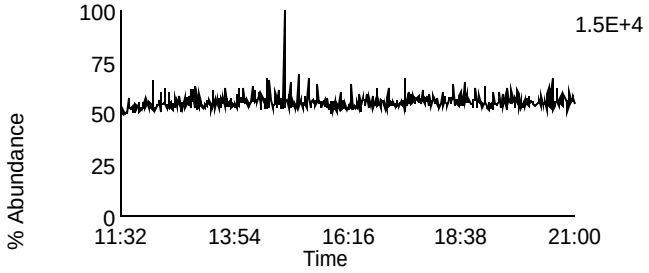
Data File: P140322B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL PFK TC



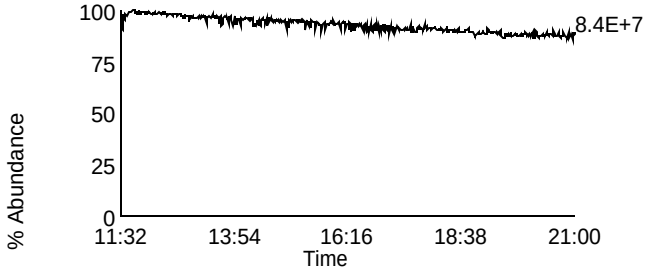
Data File: P140322B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

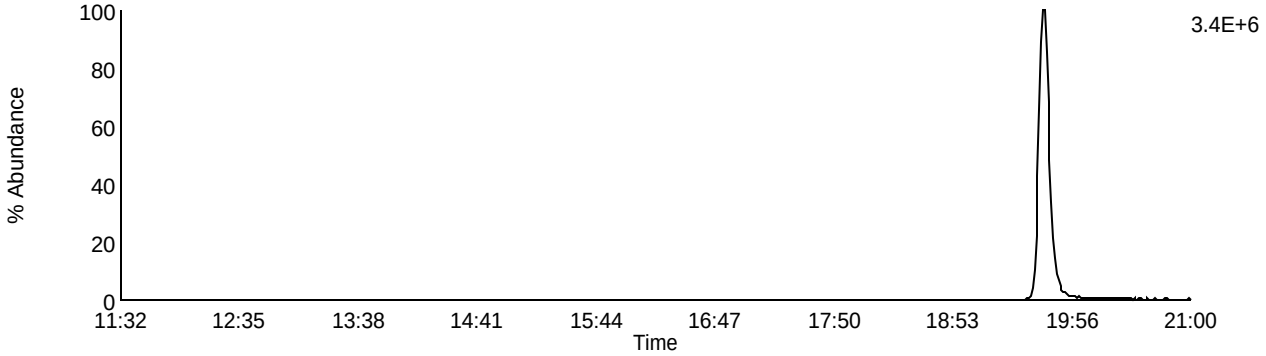


Homologue Group: Penta & Cleanup

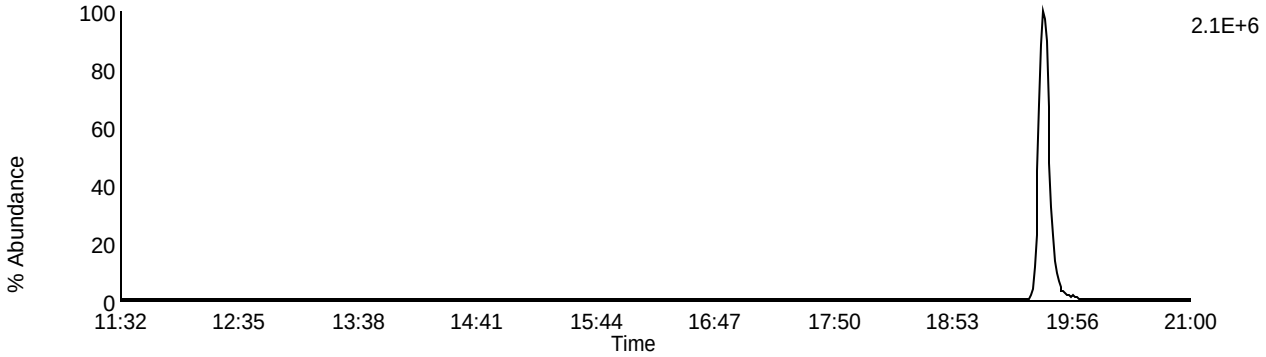
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

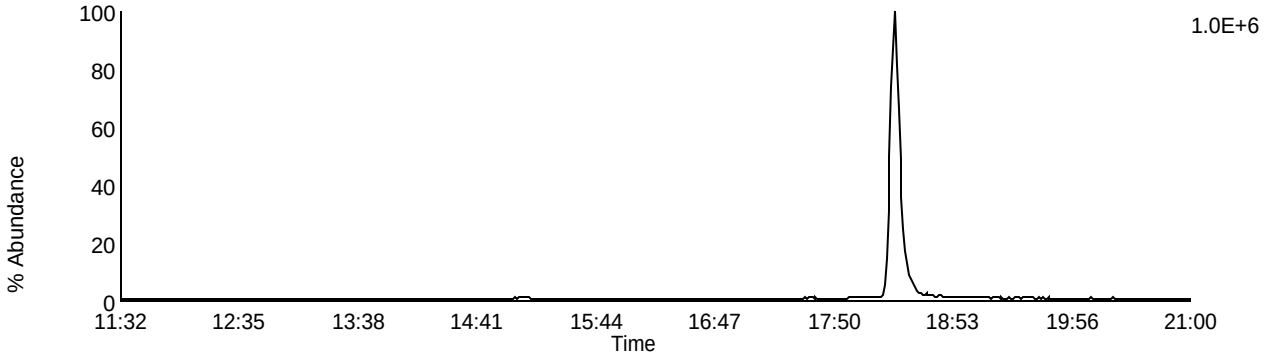
Data File: P140322B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL PFK TC



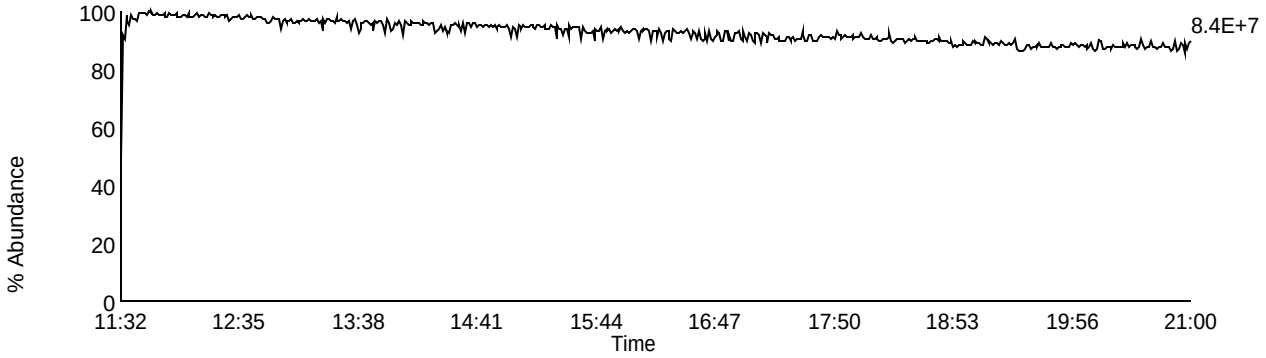
Data File: P140322B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

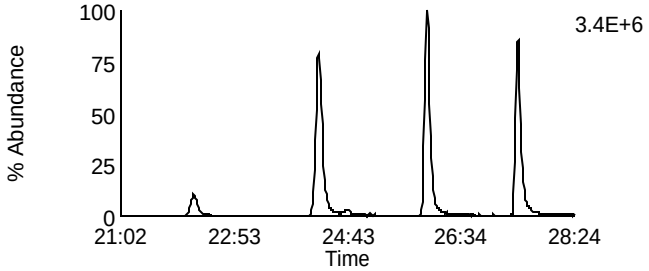


Homologue Group: Pentas

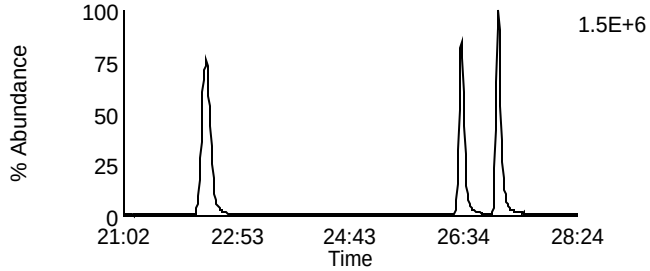
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

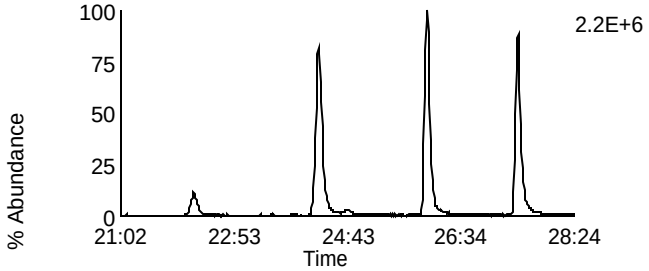
Data File: P140322B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL PFK TC



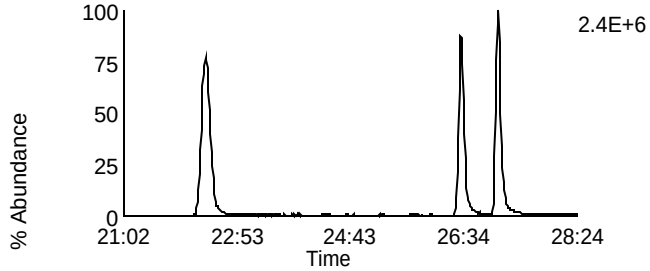
Data File: P140322B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL PFK TC



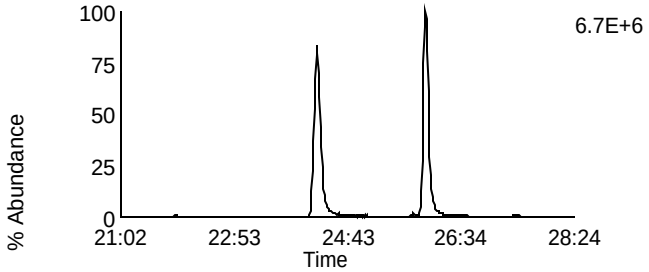
Data File: P140322B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL PFK TC



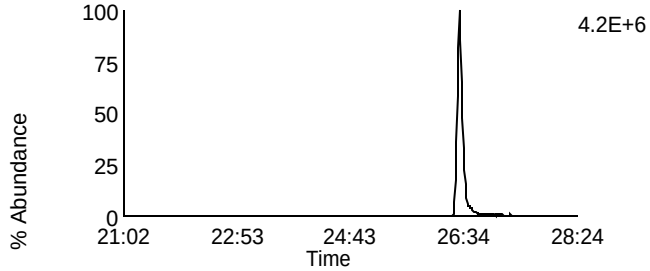
Data File: P140322B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL PFK TC



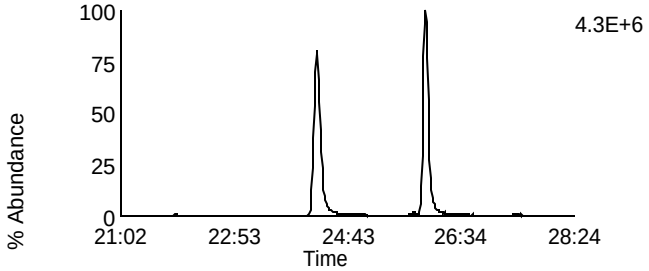
Data File: P140322B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL PFK TC



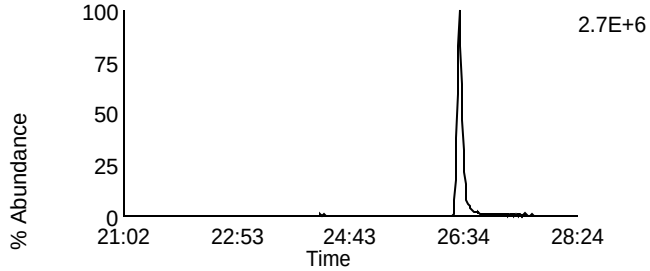
Data File: P140322B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL PFK TC



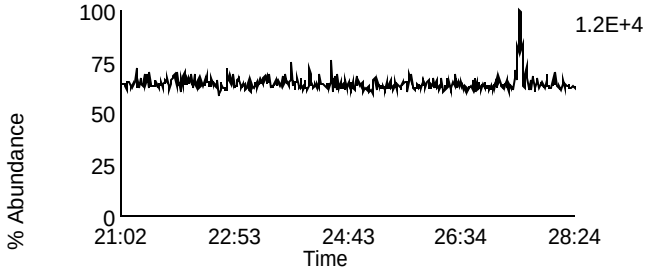
Data File: P140322B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL PFK TC



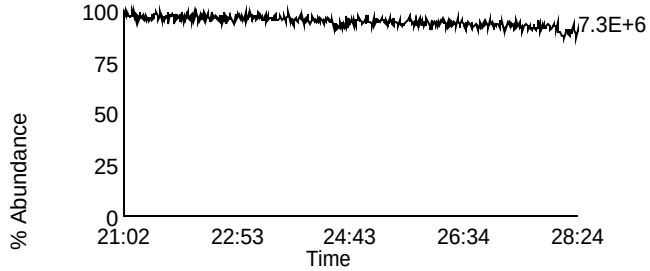
Data File: P140322B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL PFK TC

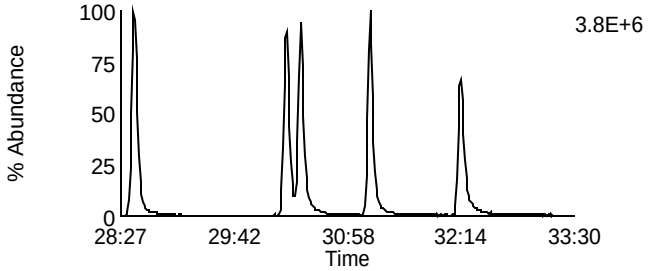


Homologue Group: Hexas

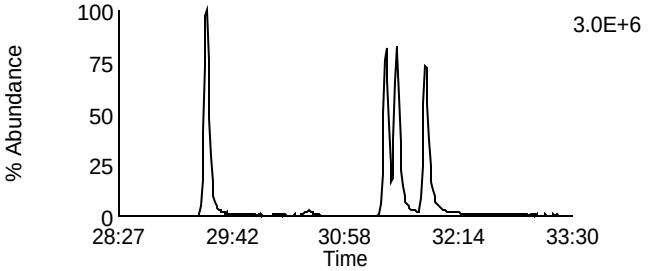
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

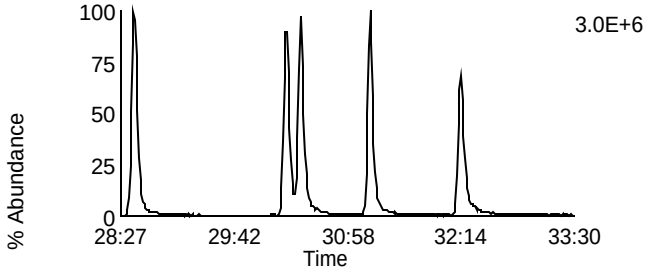
Data File: P140322B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL PFK TC



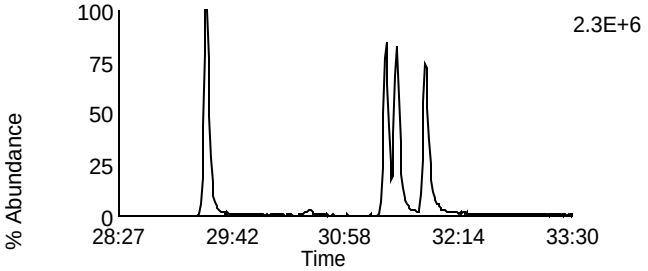
Data File: P140322B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL PFK TC



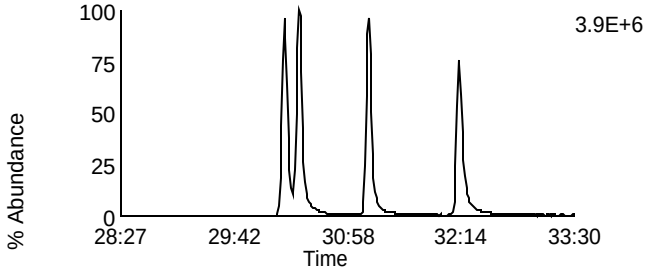
Data File: P140322B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL PFK TC



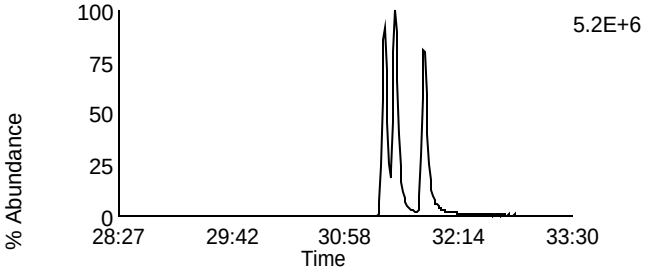
Data File: P140322B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL PFK TC



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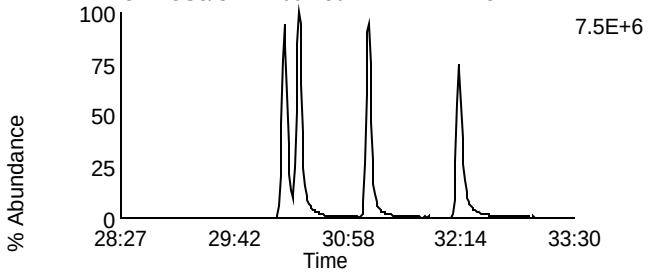
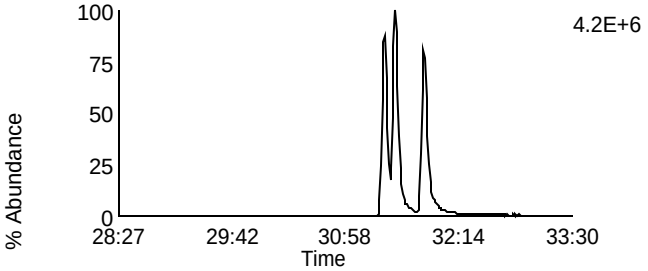
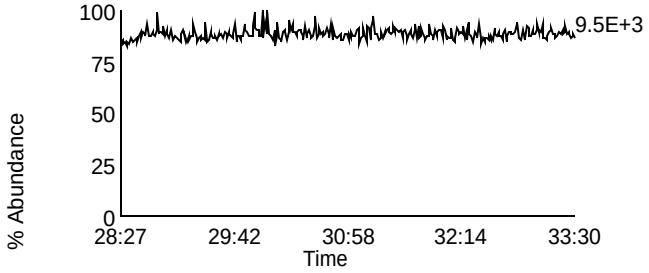
CAL CS3/CPM-7604-301 - BAL PFK TC



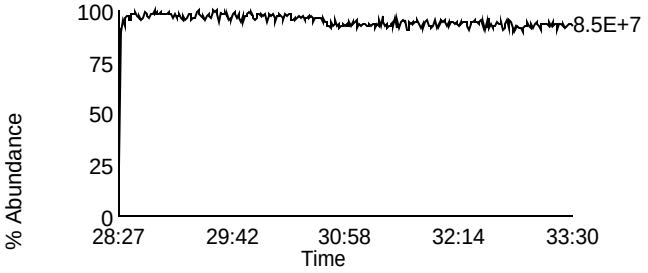
Data File: P140322B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL PFK TC

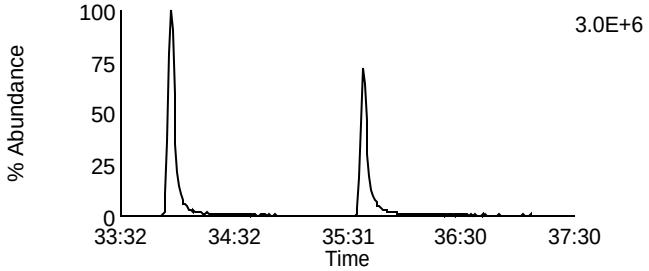


Homologue Group: Heptas

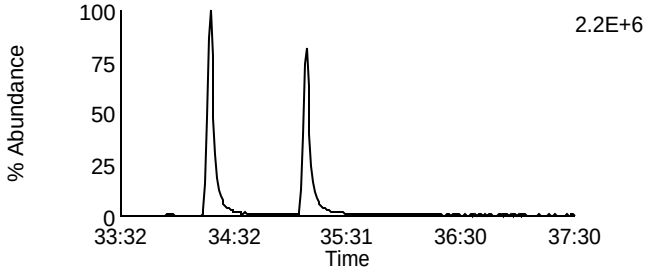
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

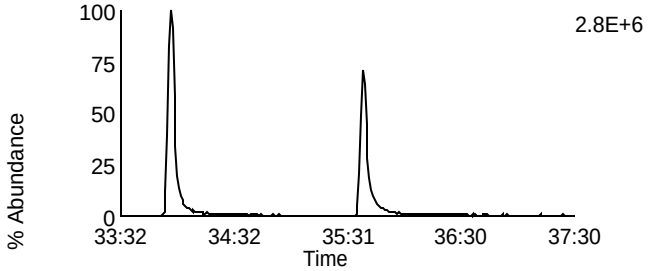
Data File: P140322B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL PFK TC



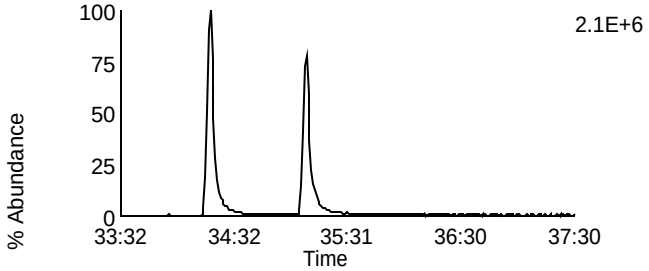
Data File: P140322B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL PFK TC



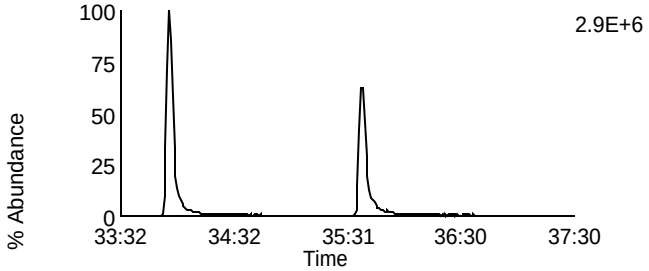
Data File: P140322B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL PFK TC



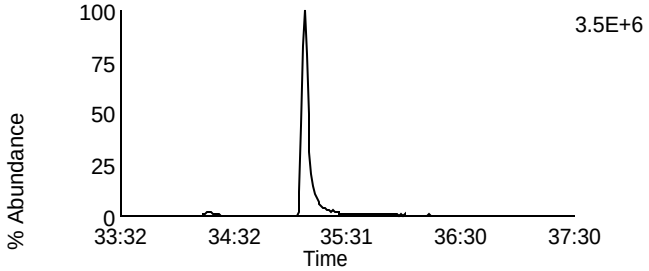
Data File: P140322B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL PFK TC



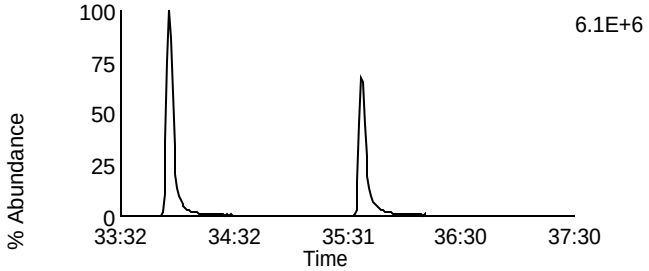
Data File: P140322B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL PFK TC



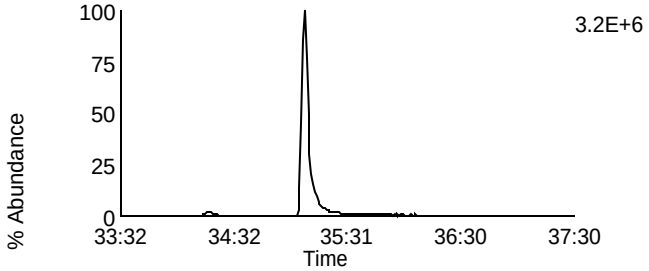
Data File: P140322B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL PFK TC



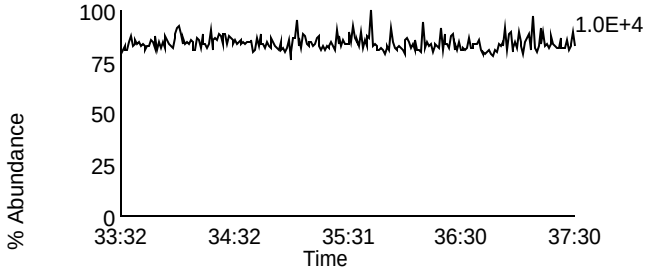
Data File: P140322B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL PFK TC



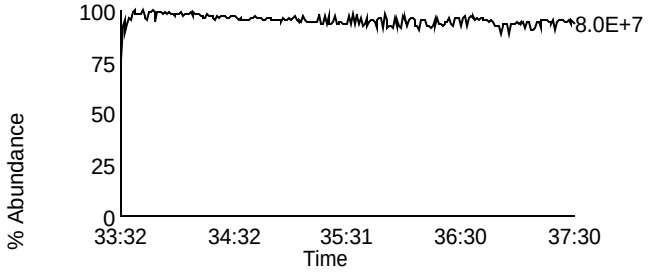
Data File: P140322B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL PFK TC

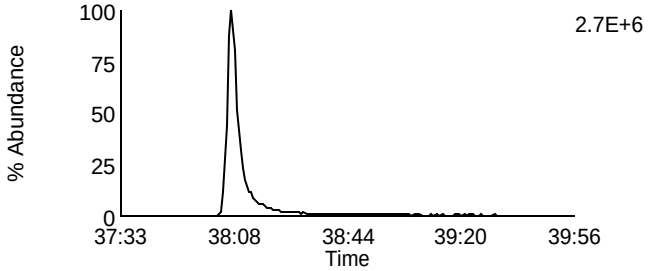


Homologue Group: Octas

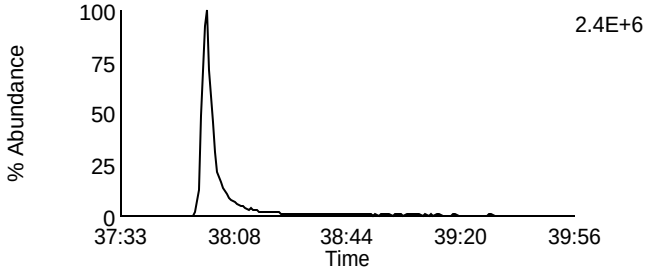
Data File Name: P140322B_01
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL PFK TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

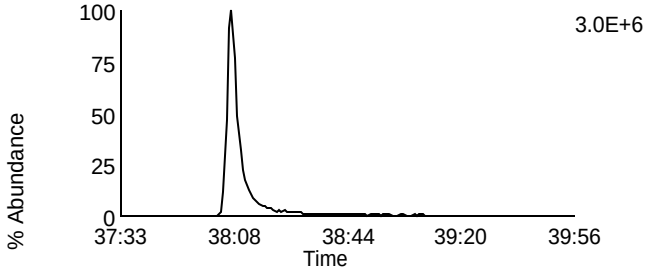
Data File: P140322B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL PFK TC



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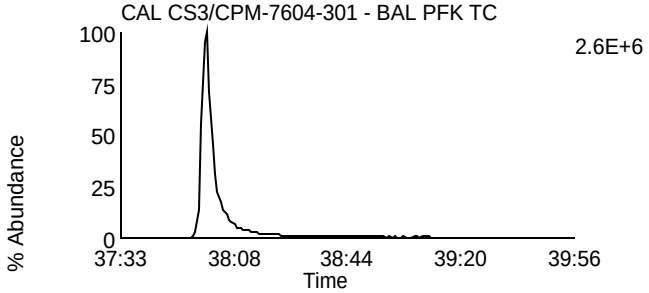
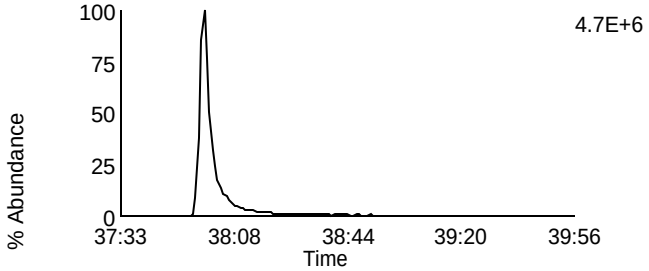
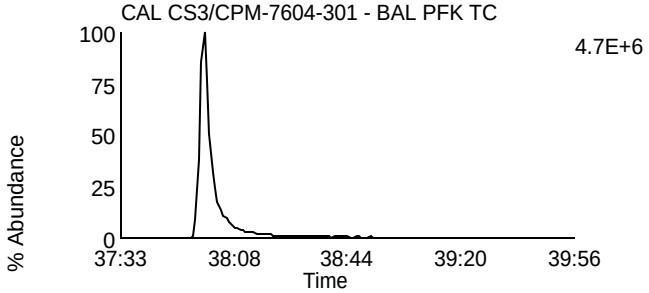
CAL CS3/CPM-7604-301 - BAL PFK TC



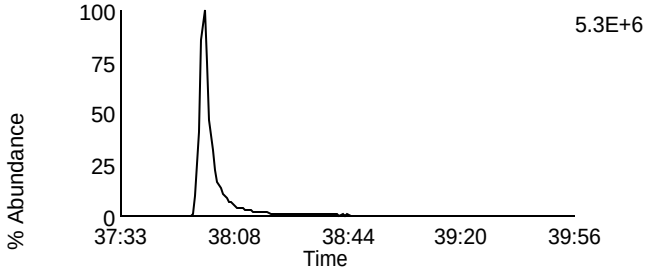
Data File: P140322B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL PFK TC



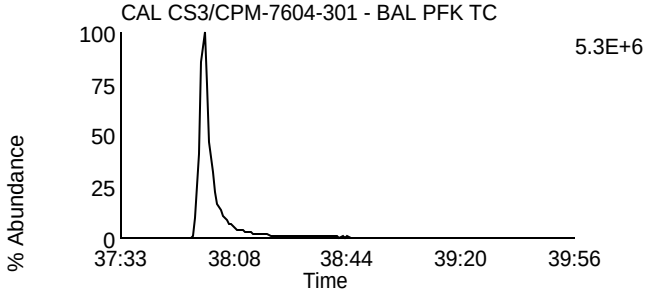
Data File: P140322B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL PFK TC



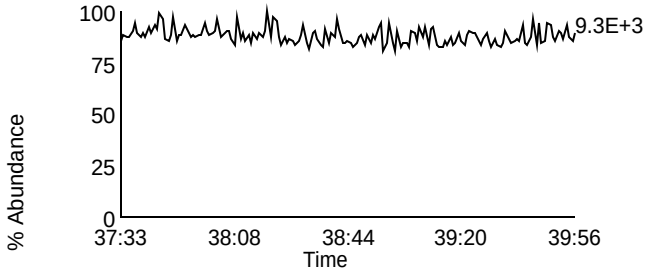
Data File: P140322B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL PFK TC



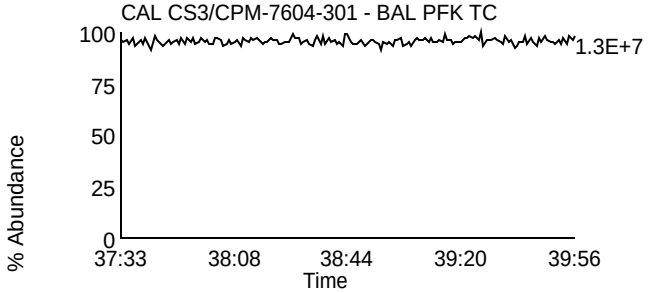
Data File: P140322B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL PFK TC



Data File: P140322B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL PFK TC

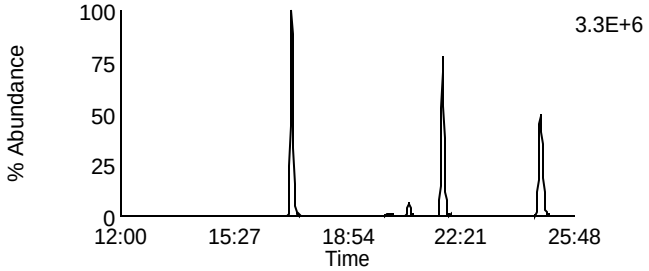


Homologue Group: Tetras

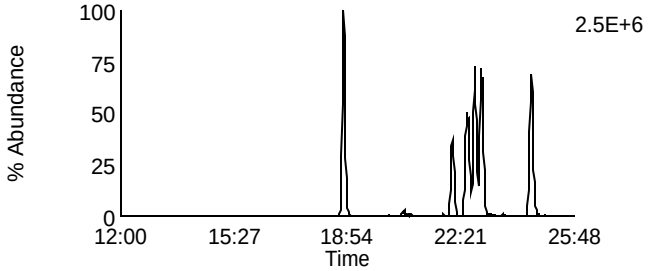
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

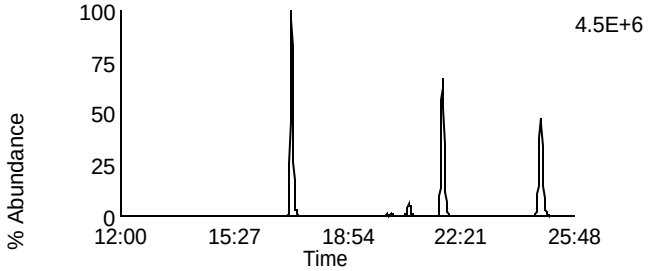
Data File: U140322B_04 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL



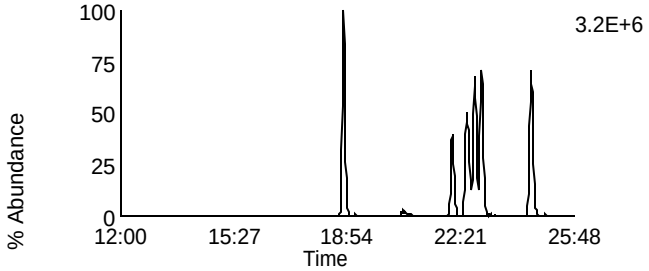
Data File: U140322B_04 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL



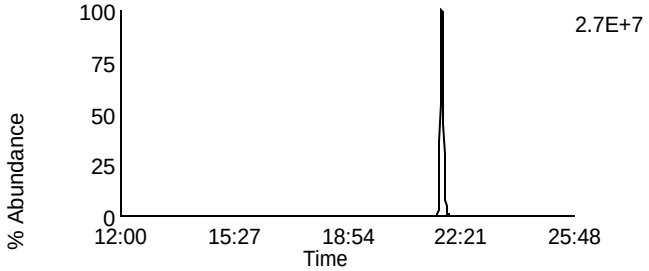
Data File: U140322B_04 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL



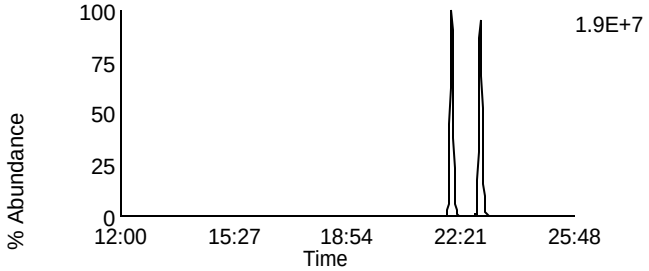
Data File: U140322B_04 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL



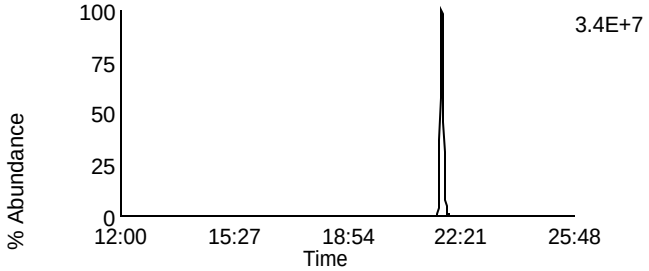
Data File: U140322B_04 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL



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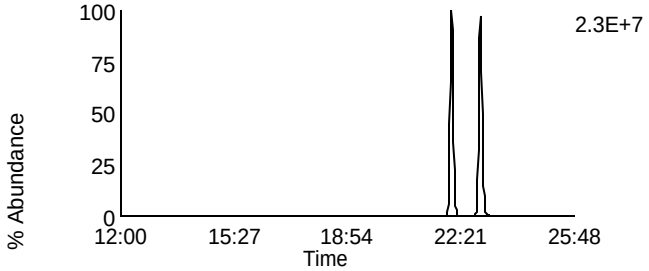
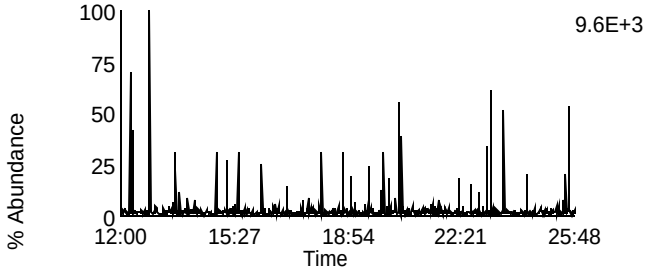
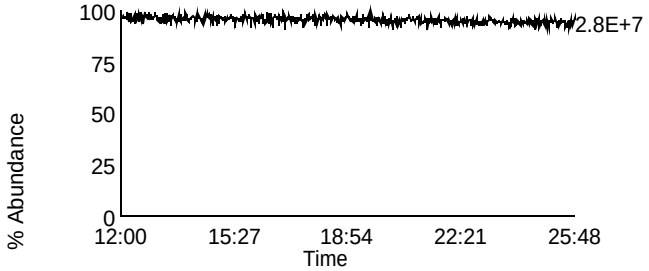
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

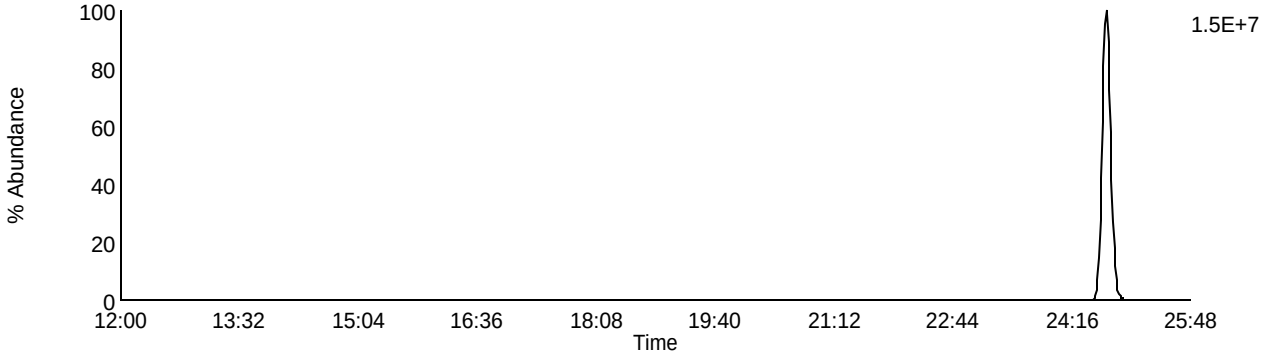


Homologue Group: Penta & Cleanup

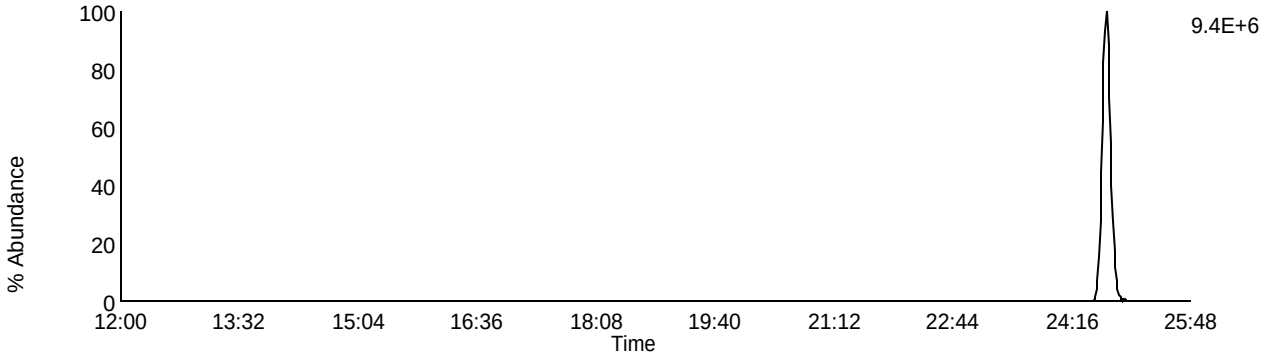
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

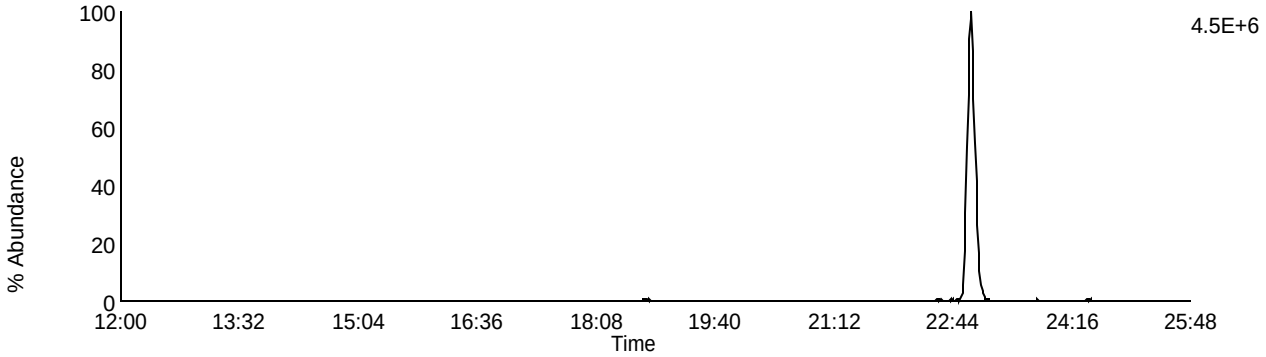
Data File: U140322B_04 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL



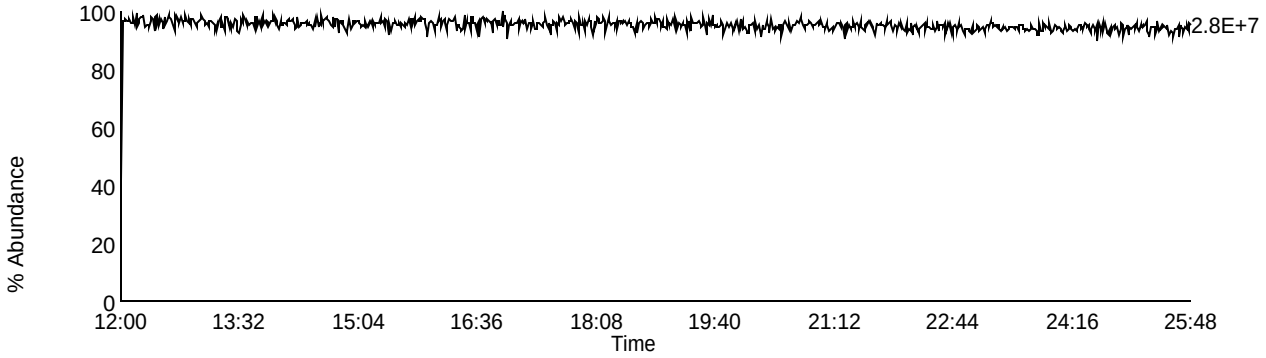
Data File: U140322B_04 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL

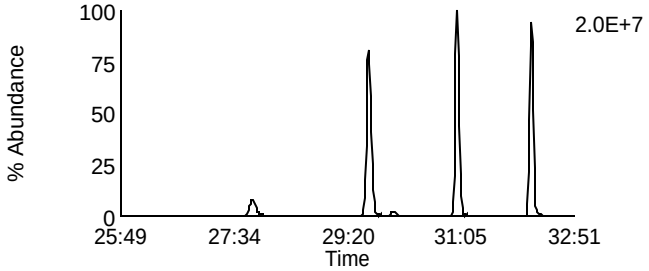


Homologue Group: Pentas

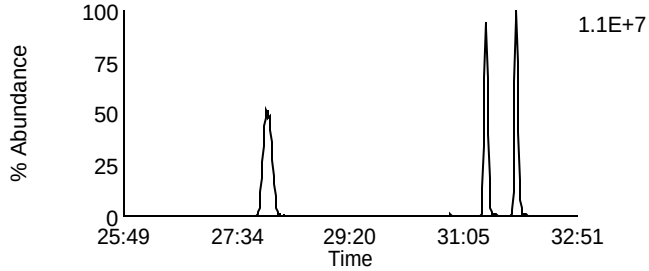
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

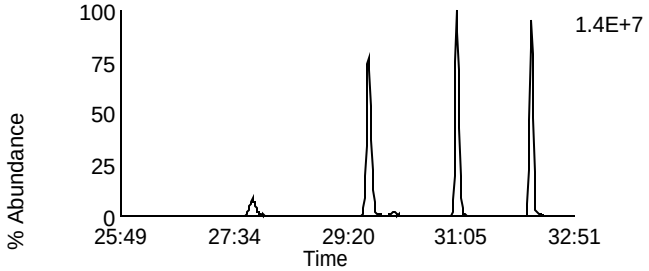
Data File: U140322B_04 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL



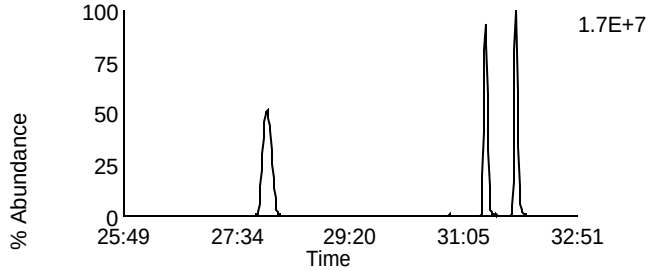
Data File: U140322B_04 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL



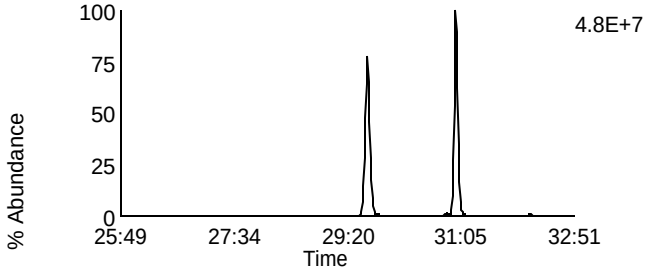
Data File: U140322B_04 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL



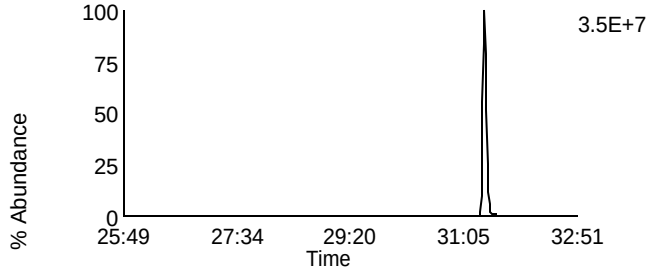
Data File: U140322B_04 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL



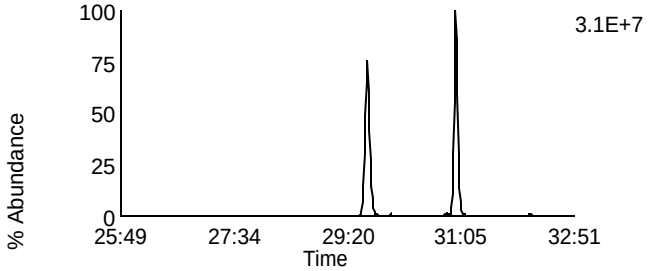
Data File: U140322B_04 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL



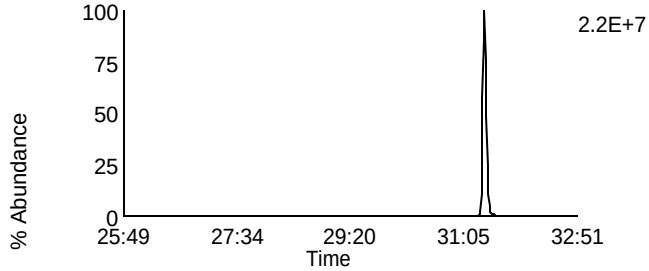
Data File: U140322B_04 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL



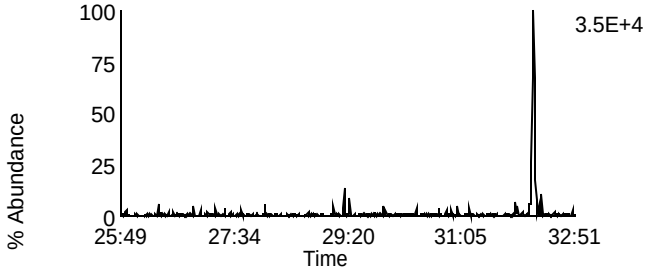
Data File: U140322B_04 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL



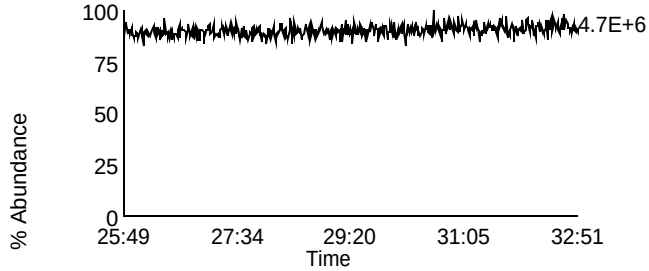
Data File: U140322B_04 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL

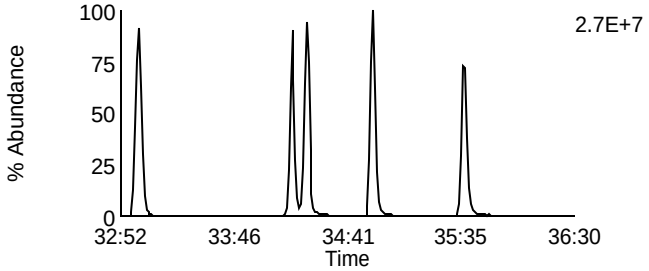


Homologue Group: Hexas

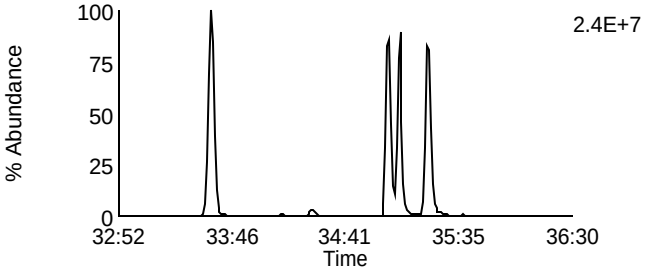
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

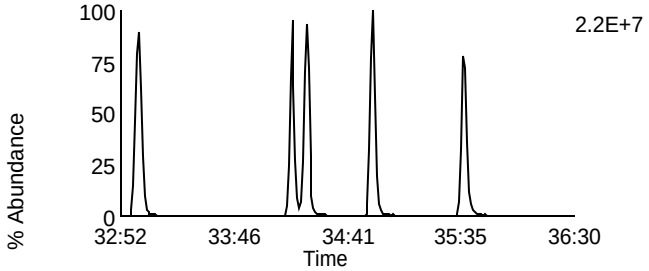
Data File: U140322B_04 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL



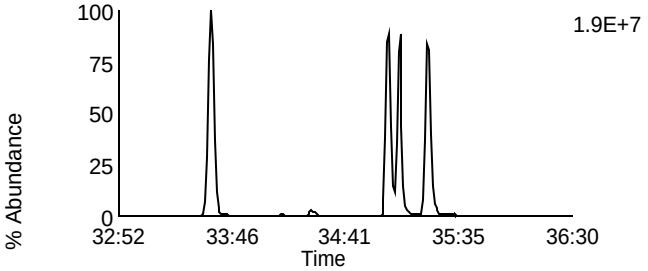
Data File: U140322B_04 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL



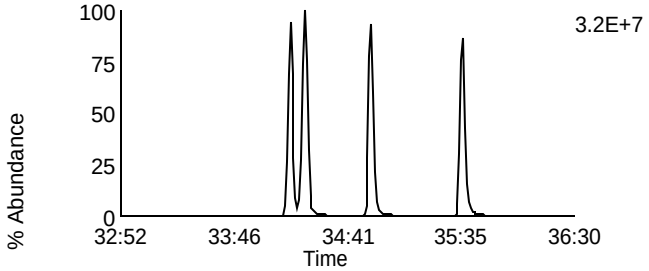
Data File: U140322B_04 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL



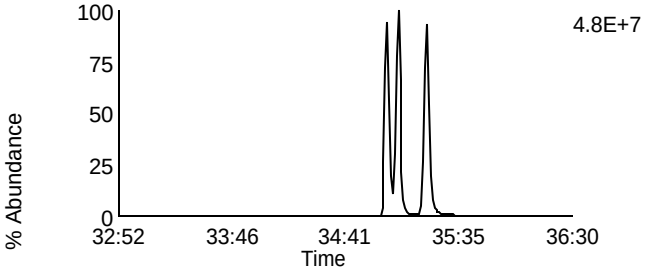
Data File: U140322B_04 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL



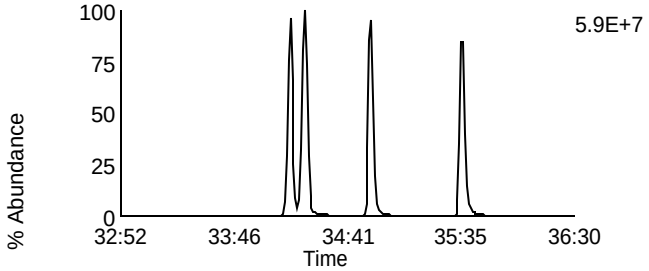
Data File: U140322B_04 G3 C5 - 383.8639
CAL CS3/CPM-7604-301 - BAL



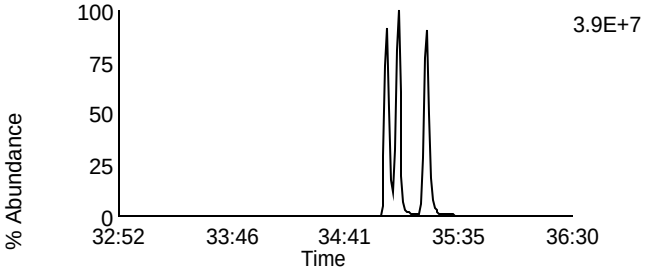
Data File: U140322B_04 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL



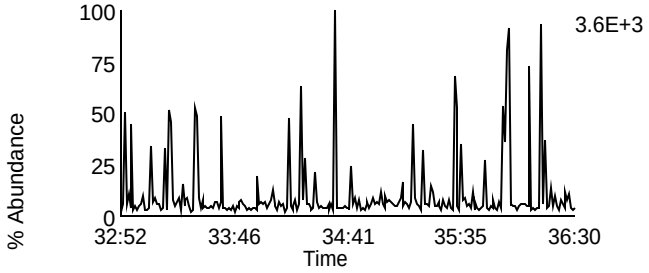
Data File: U140322B_04 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL



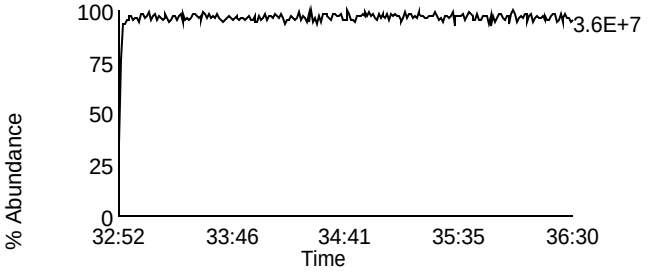
Data File: U140322B_04 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL

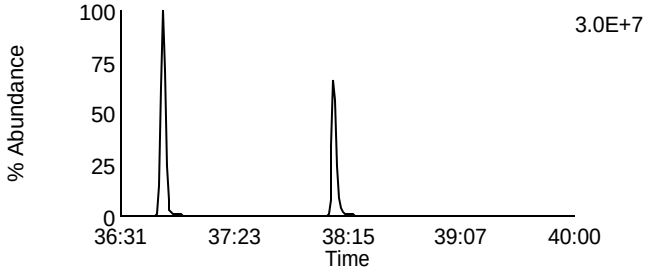


Homologue Group: Heptas

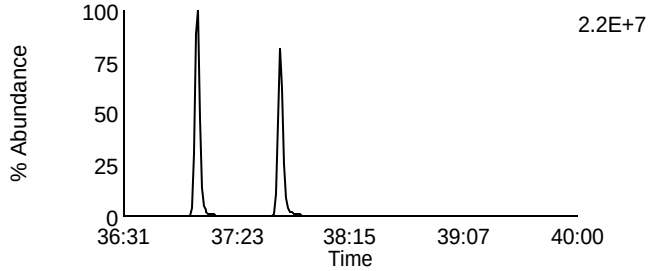
Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

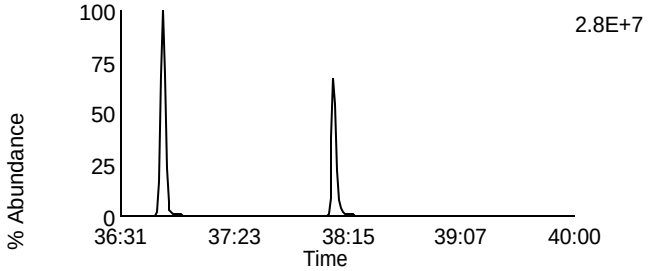
Data File: U140322B_04 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL



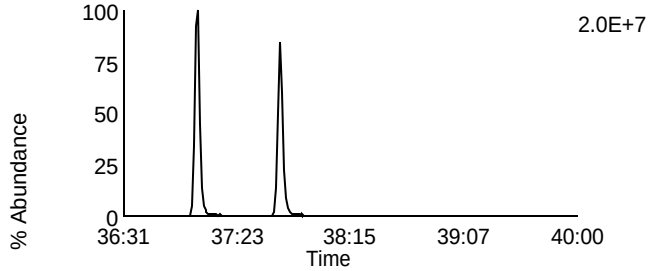
Data File: U140322B_04 G4 C8 - 423.7767
CAL CS3/CPM-7604-301 - BAL



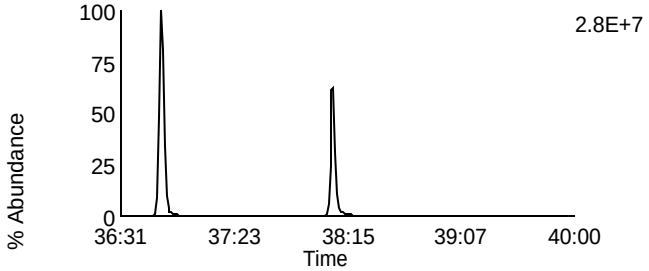
Data File: U140322B_04 G4 C4 - 409.7788
CAL CS3/CPM-7604-301 - BAL



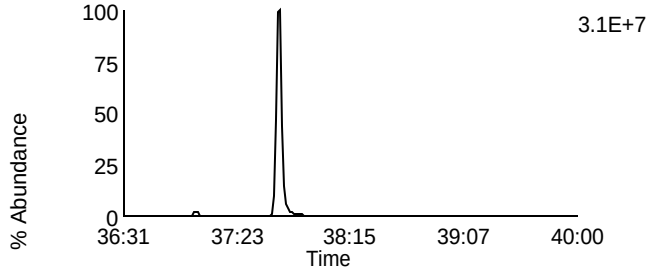
Data File: U140322B_04 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL



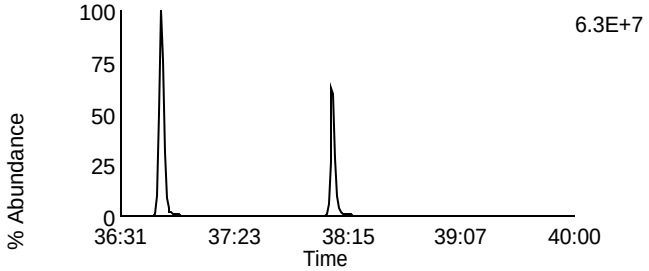
Data File: U140322B_04 G4 C6 - 417.825
CAL CS3/CPM-7604-301 - BAL



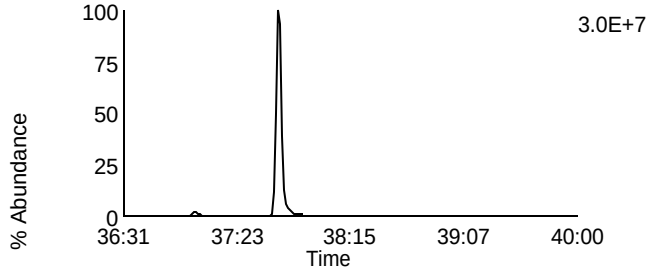
Data File: U140322B_04 G4 C11 - 435.8169
CAL CS3/CPM-7604-301 - BAL



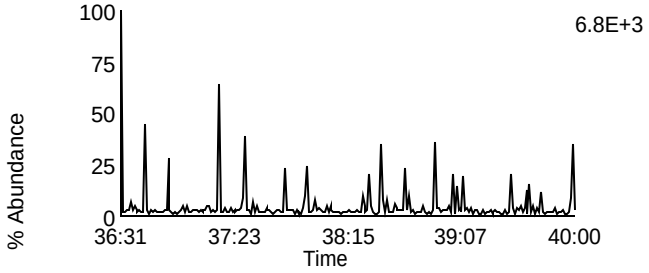
Data File: U140322B_04 G4 C7 - 419.822
CAL CS3/CPM-7604-301 - BAL



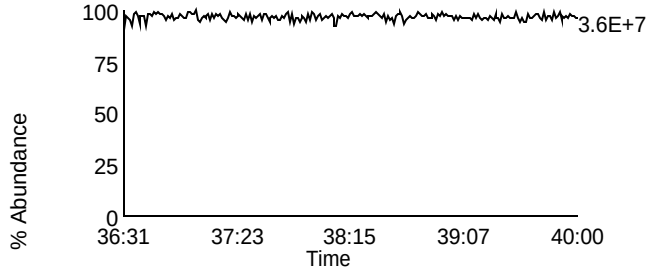
Data File: U140322B_04 G4 C12 - 437.814
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL

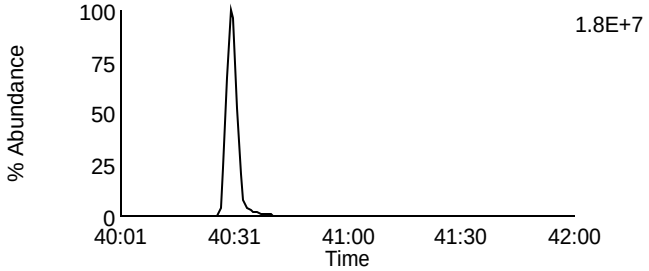


Homologue Group: Octas

Data File Name: U140322B_04
Date Acquired: 3/22/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140322B_04 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL



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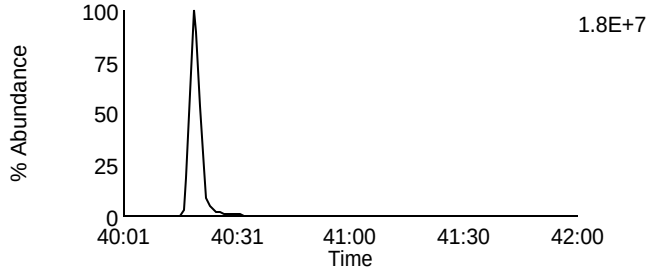
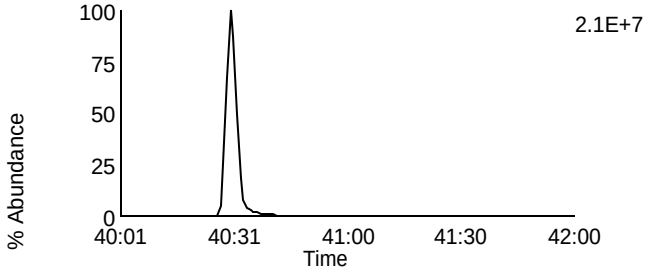
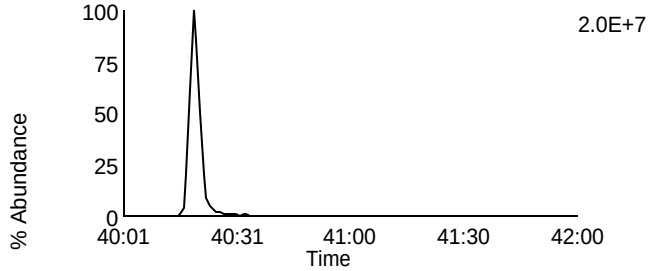
CAL CS3/CPM-7604-301 - BAL



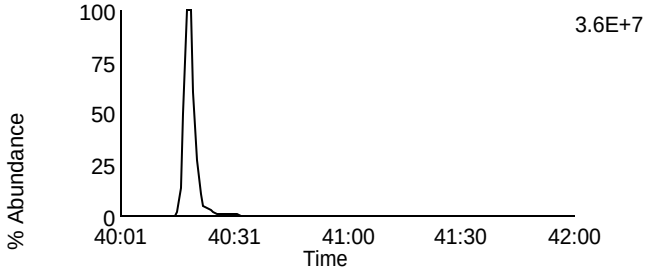
Data File: U140322B_04 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL



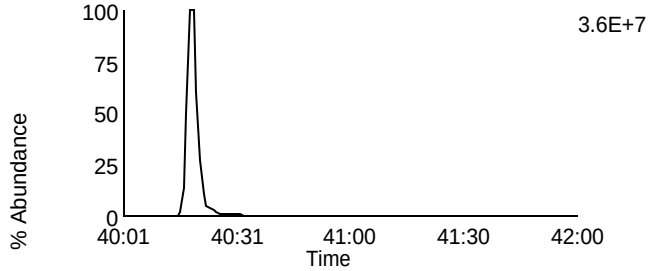
Data File: U140322B_04 G5 C9 - 459.7347
CAL CS3/CPM-7604-301 - BAL



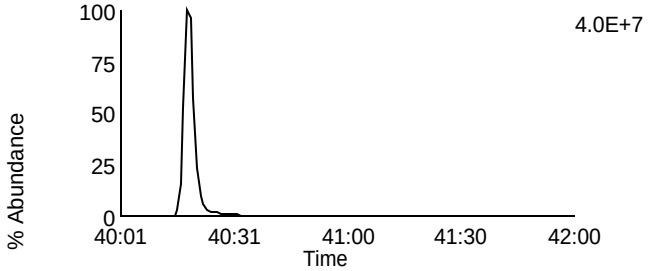
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



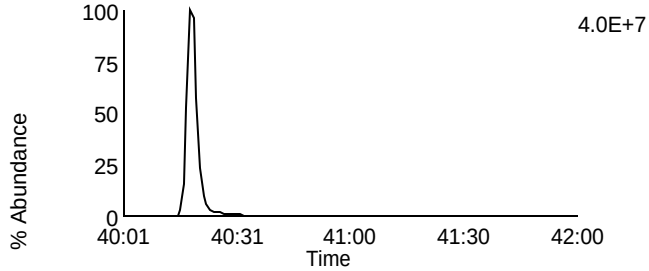
Data File: U140322B_04 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL



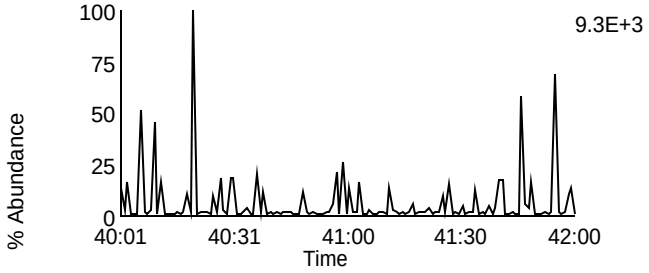
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



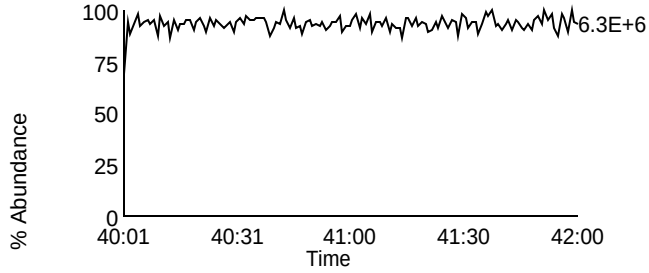
Data File: U140322B_04 G5 C12 - 471.7749
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL



Data File: U140322B_04 G5 C2 - 430.9728
CAL CS3/CPM-7604-301 - BAL

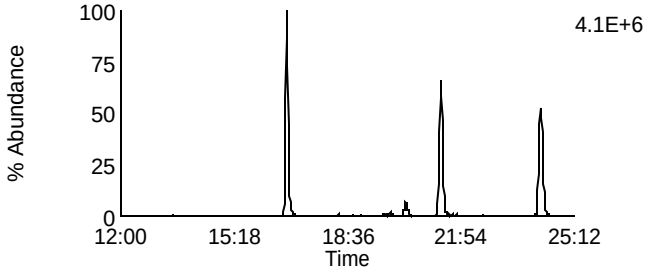


Homologue Group: Tetras

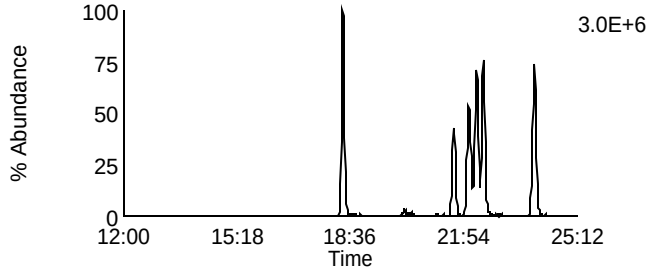
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

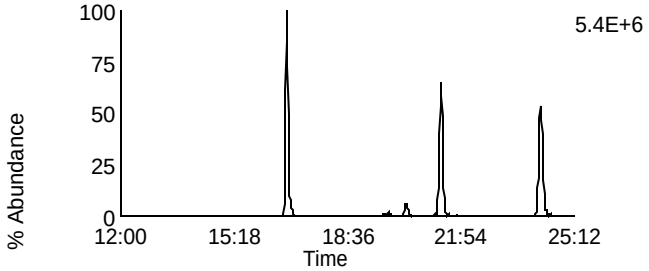
Data File: U140328B_02 G1 C1 - 303.9016
CAL CS3/CPM-7604-301 - BAL set windows TC



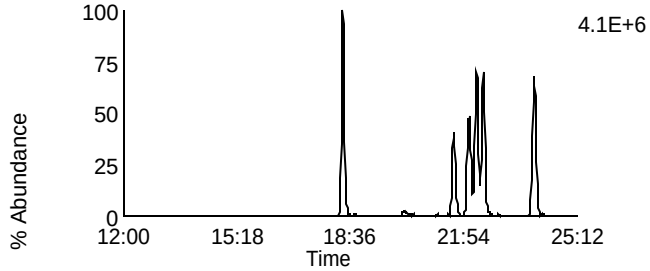
Data File: U140328B_02 G1 C7 - 319.8965
CAL CS3/CPM-7604-301 - BAL set windows TC



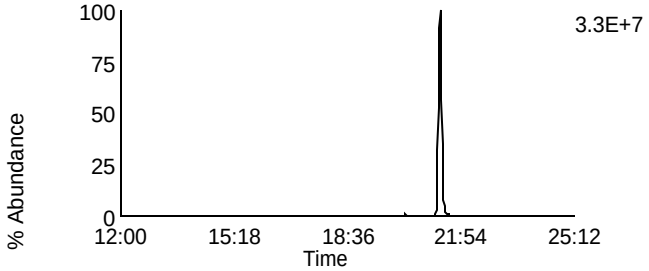
Data File: U140328B_02 G1 C2 - 305.8987
CAL CS3/CPM-7604-301 - BAL set windows TC



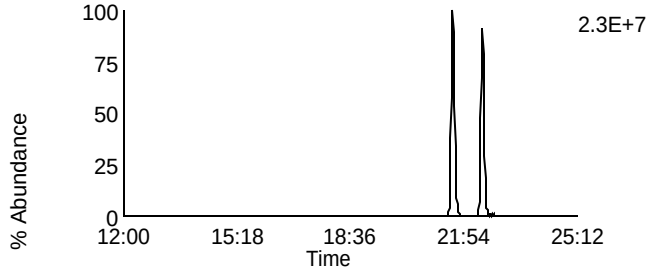
Data File: U140328B_02 G1 C8 - 321.8936
CAL CS3/CPM-7604-301 - BAL set windows TC



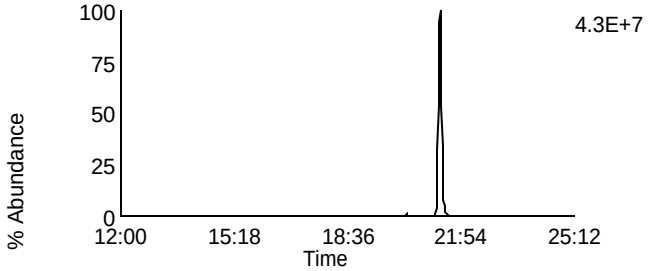
Data File: U140328B_02 G1 C3 - 315.9418
CAL CS3/CPM-7604-301 - BAL set windows TC



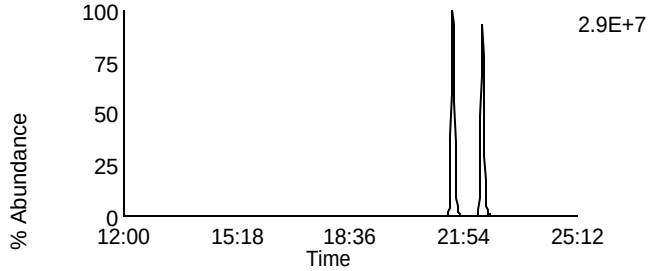
Data File: U140328B_02 G1 C10 - 331.9367
CAL CS3/CPM-7604-301 - BAL set windows TC



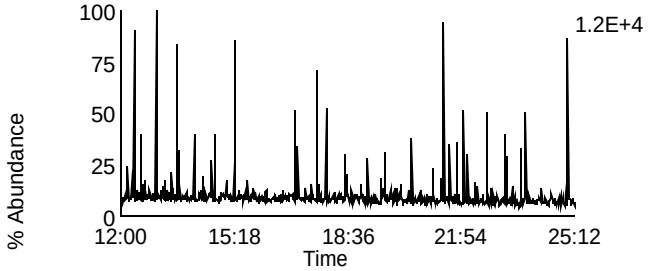
Data File: U140328B_02 G1 C4 - 317.9389
CAL CS3/CPM-7604-301 - BAL set windows TC



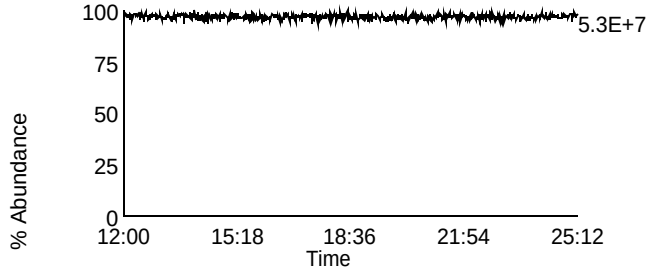
Data File: U140328B_02 G1 C11 - 333.9338
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C14 - 375.8364
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

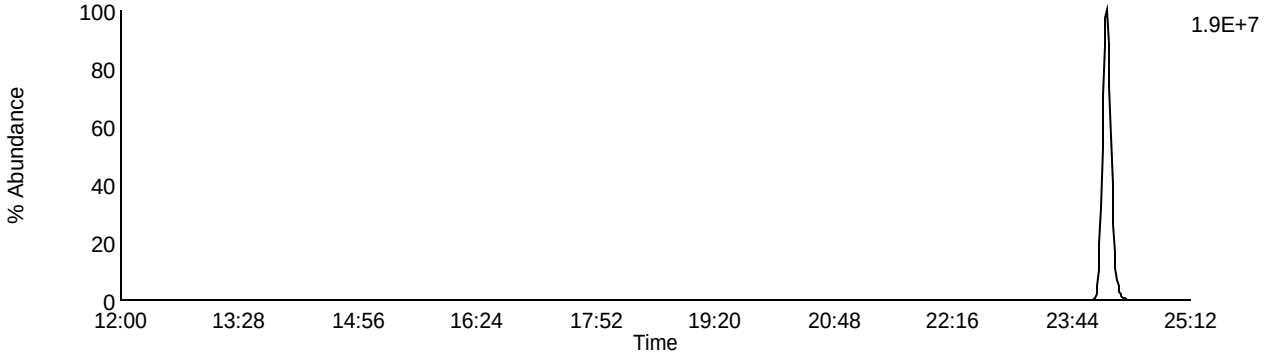


Homologue Group: Penta & Cleanup

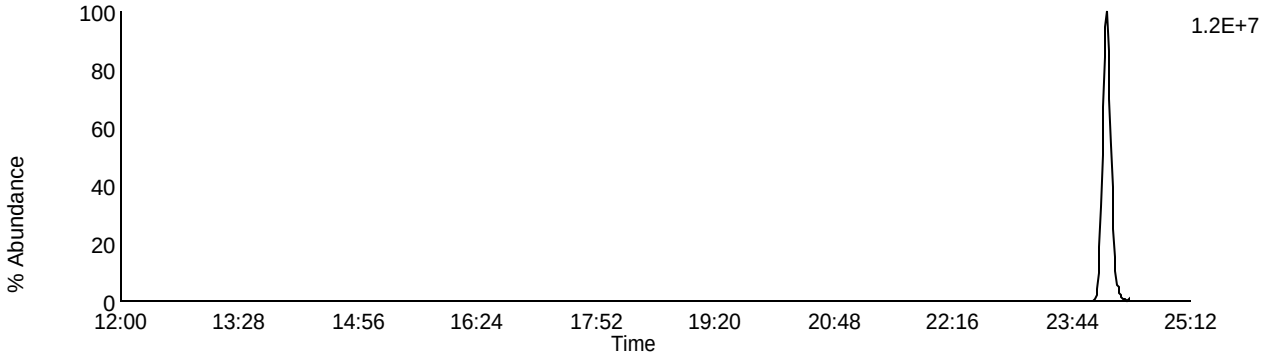
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

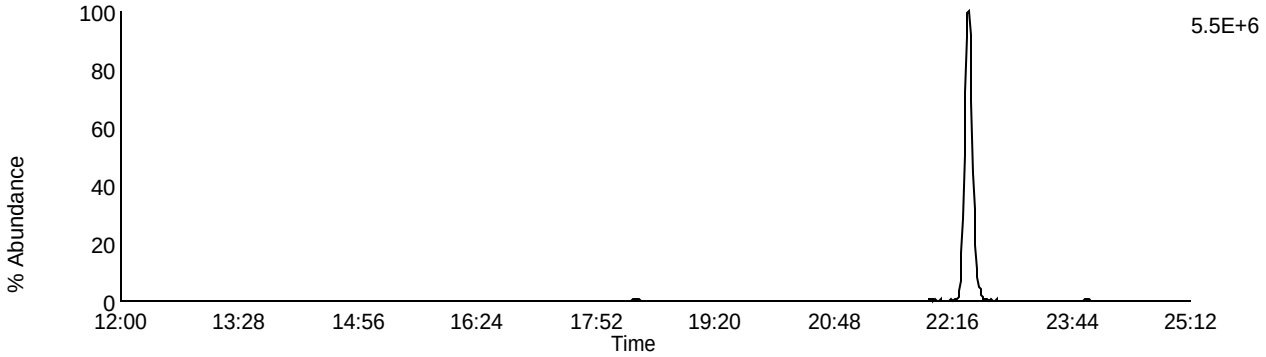
Data File: U140328B_02 G1 C12 - 339.8597
CAL CS3/CPM-7604-301 - BAL set windows TC



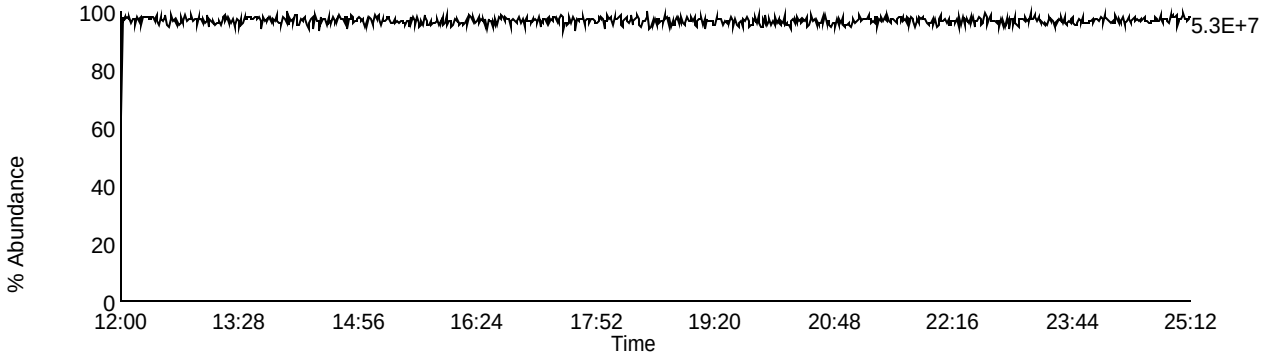
Data File: U140328B_02 G1 C13 - 341.8567
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C9 - 327.8847
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

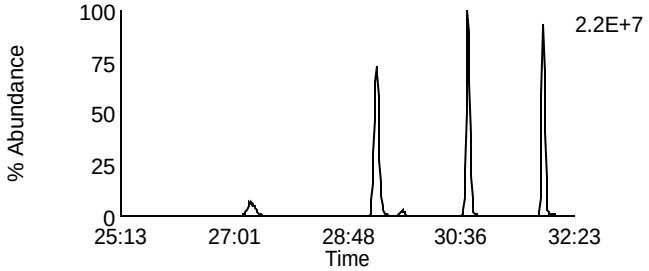


Homologue Group: Pentas

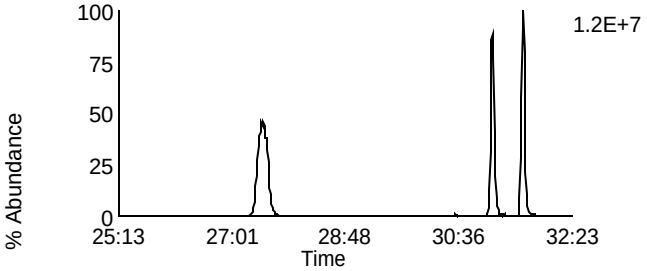
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

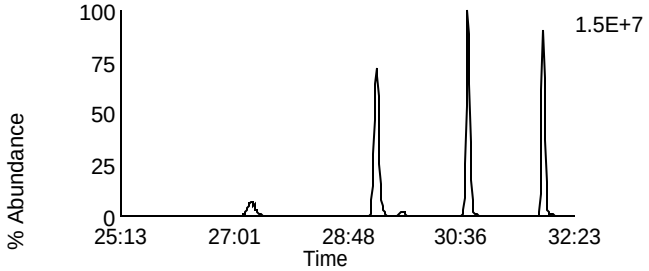
Data File: U140328B_02 G2 C1 - 339.8597
CAL CS3/CPM-7604-301 - BAL set windows TC



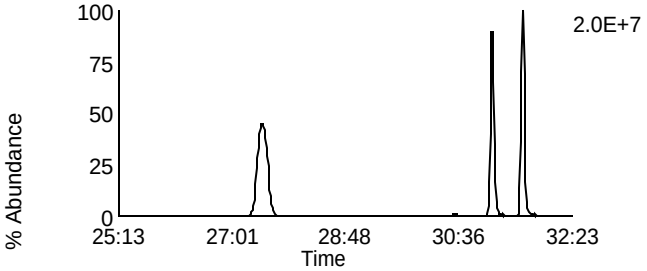
Data File: U140328B_02 G2 C4 - 353.8576
CAL CS3/CPM-7604-301 - BAL set windows TC



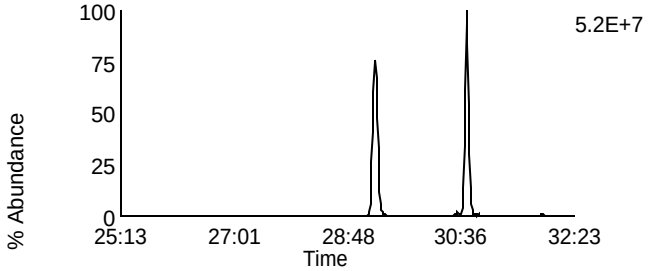
Data File: U140328B_02 G2 C2 - 341.8567
CAL CS3/CPM-7604-301 - BAL set windows TC



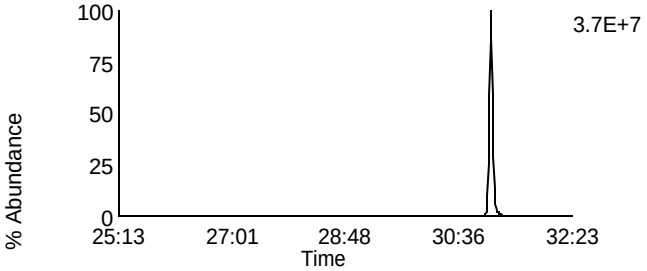
Data File: U140328B_02 G2 C8 - 355.8546
CAL CS3/CPM-7604-301 - BAL set windows TC



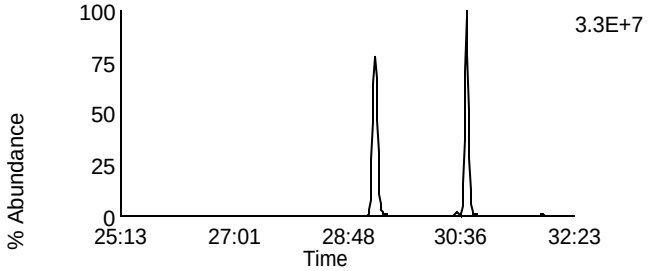
Data File: U140328B_02 G2 C3 - 351.8999
CAL CS3/CPM-7604-301 - BAL set windows TC



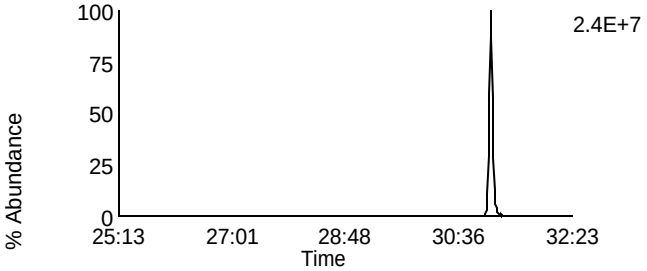
Data File: U140328B_02 G2 C10 - 367.8948
CAL CS3/CPM-7604-301 - BAL set windows TC



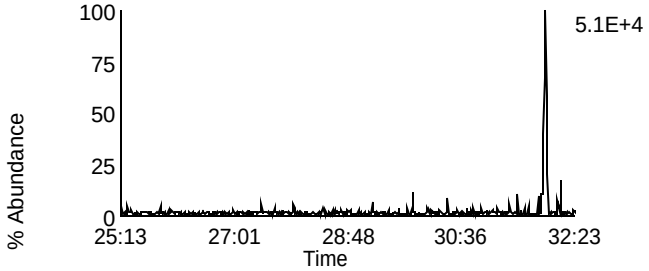
Data File: U140328B_02 G2 C5 - 353.8969
CAL CS3/CPM-7604-301 - BAL set windows TC



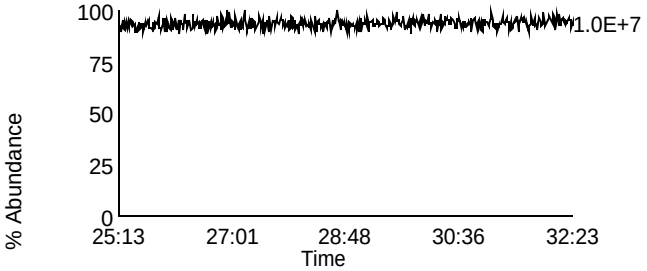
Data File: U140328B_02 G2 C11 - 369.8918
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G2 C12 - 409.7974
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G2 C6 - 354.9792
CAL CS3/CPM-7604-301 - BAL set windows TC

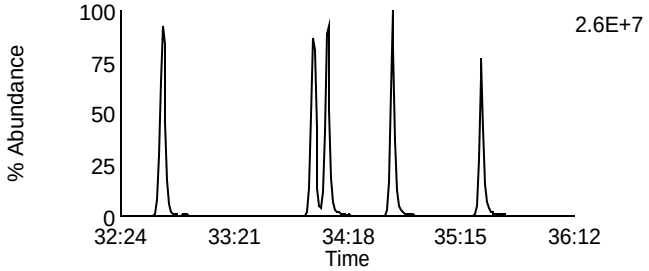


Homologue Group: Hexas

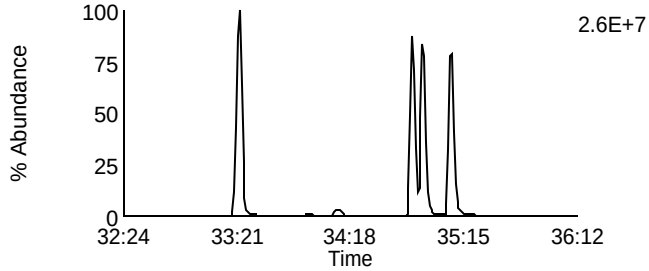
Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

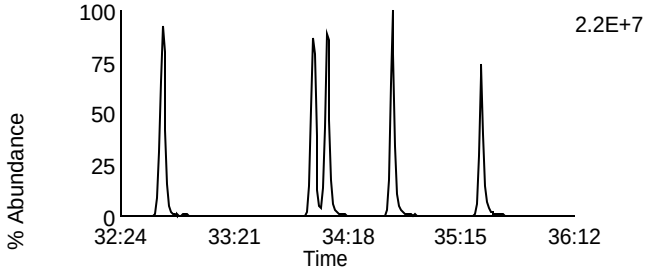
Data File: U140328B_02 G3 C1 - 373.8207
CAL CS3/CPM-7604-301 - BAL set windows TC



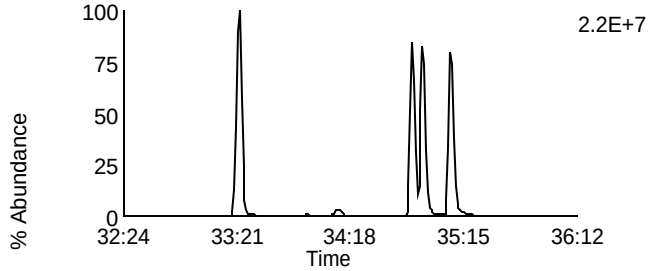
Data File: U140328B_02 G3 C7 - 389.8156
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C2 - 375.8178
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C8 - 391.8127
CAL CS3/CPM-7604-301 - BAL set windows TC



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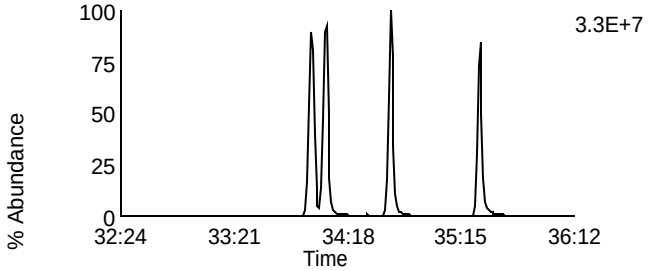
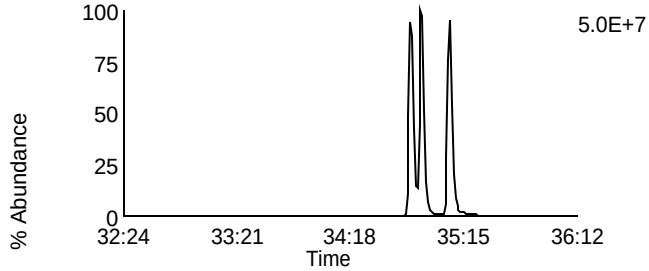
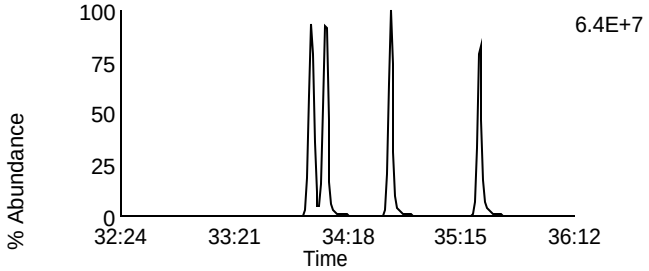
CAL CS3/CPM-7604-301 - BAL set windows TC



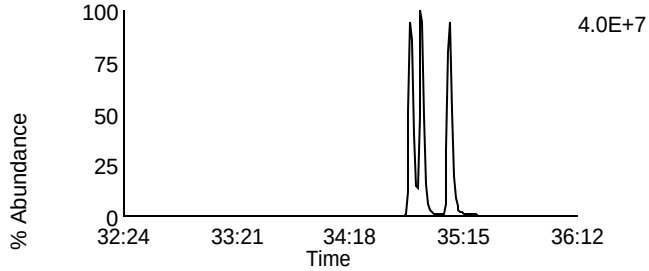
Data File: U140328B_02 G3 C9 - 401.8559
CAL CS3/CPM-7604-301 - BAL set windows TC



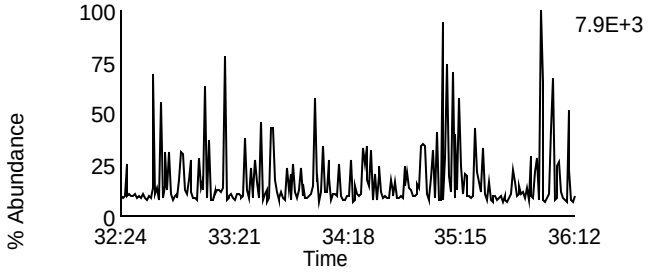
Data File: U140328B_02 G3 C6 - 385.861
CAL CS3/CPM-7604-301 - BAL set windows TC



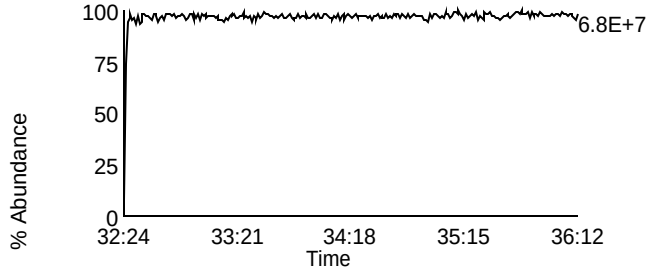
Data File: U140328B_02 G3 C10 - 403.8529
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C11 - 445.7555
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G3 C3 - 380.976
CAL CS3/CPM-7604-301 - BAL set windows TC

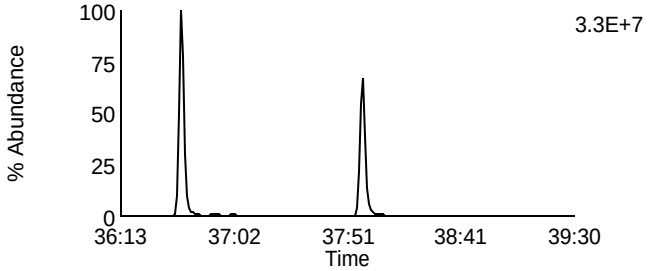


Homologue Group: Heptas

Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140328B_02 G4 C3 - 407.7818
CAL CS3/CPM-7604-301 - BAL set windows TC



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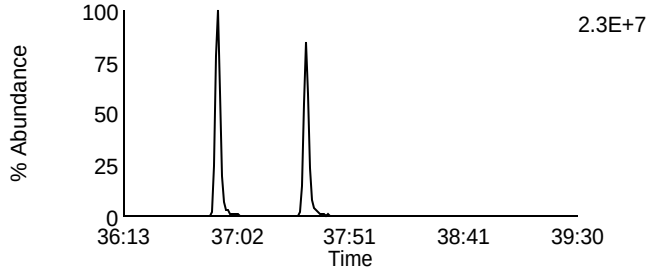
CAL CS3/CPM-7604-301 - BAL set windows TC



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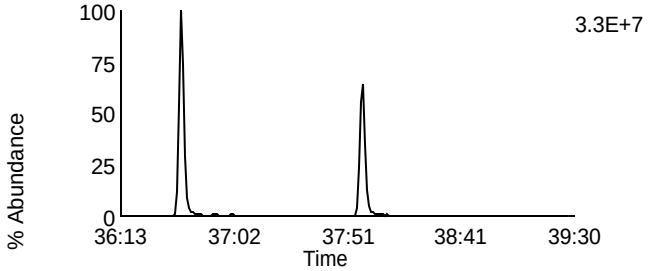
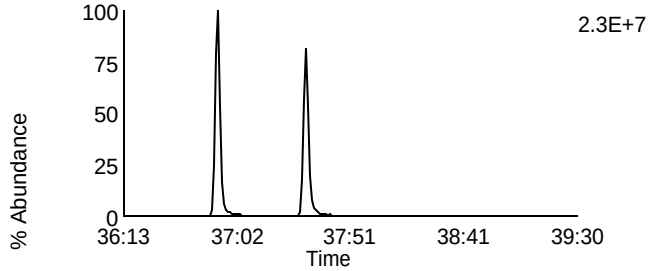
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G4 C9 - 425.7737
CAL CS3/CPM-7604-301 - BAL set windows TC



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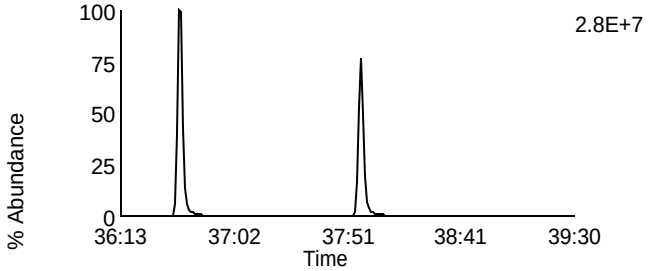
CAL CS3/CPM-7604-301 - BAL set windows TC



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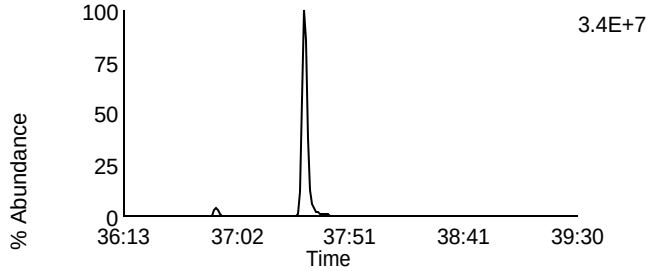
CAL CS3/CPM-7604-301 - BAL set windows TC



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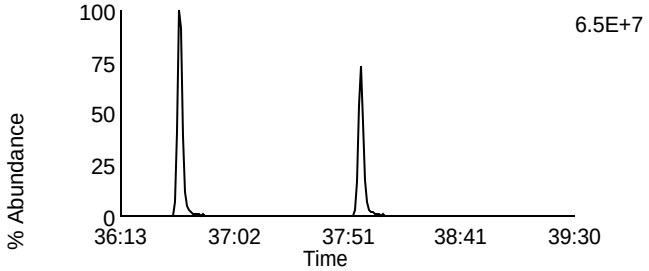
CAL CS3/CPM-7604-301 - BAL set windows TC



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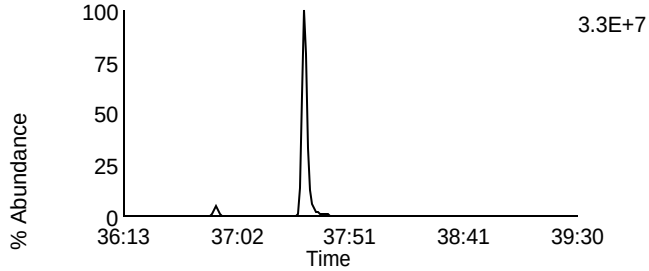
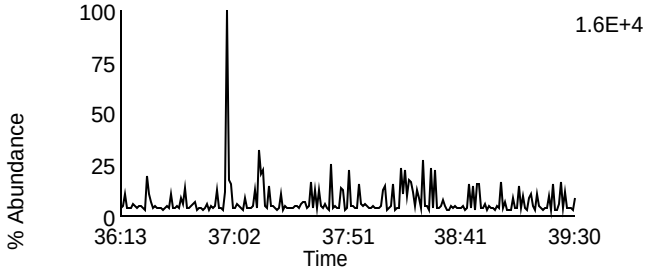
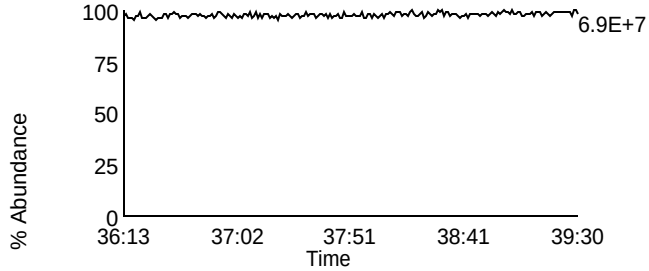
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G4 C13 - 479.7165
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G4 C1 - 380.976
CAL CS3/CPM-7604-301 - BAL set windows TC

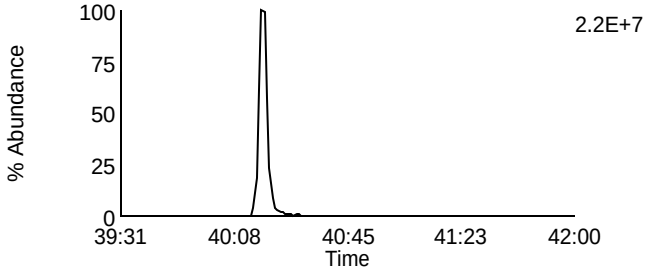


Homologue Group: Octas

Data File Name: U140328B_02
Date Acquired: 3/28/2014
Sample Description: CAL CS3/CPM-7604-301 - BAL set windows TC

Lab Sample ID: CS3/CPM-7604-301
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

Data File: U140328B_02 G5 C4 - 441.7428
CAL CS3/CPM-7604-301 - BAL set windows TC



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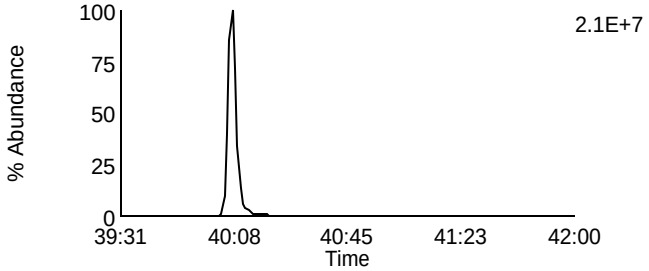
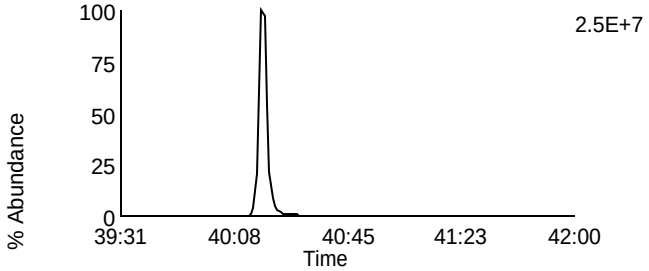


Data File: U140328B_02 G5 C5 - 443.7398
CAL CS3/CPM-7604-301 - BAL set windows TC



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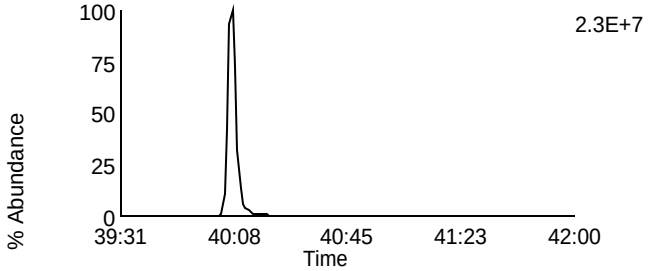
CAL CS3/CPM-7604-301 - BAL set windows TC



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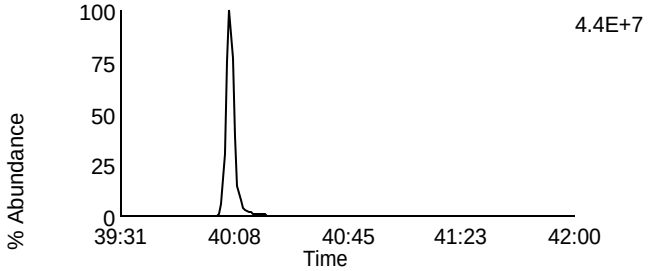
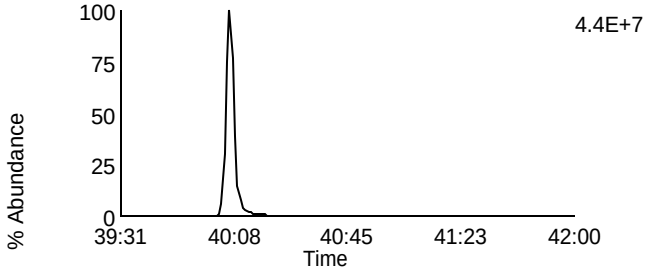
CAL CS3/CPM-7604-301 - BAL set windows TC



Data File: U140328B_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-301 - BAL set windows TC



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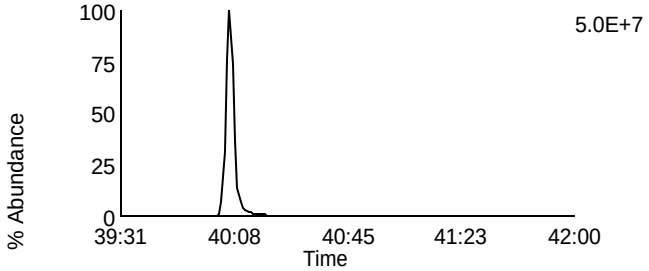
CAL CS3/CPM-7604-301 - BAL set windows TC



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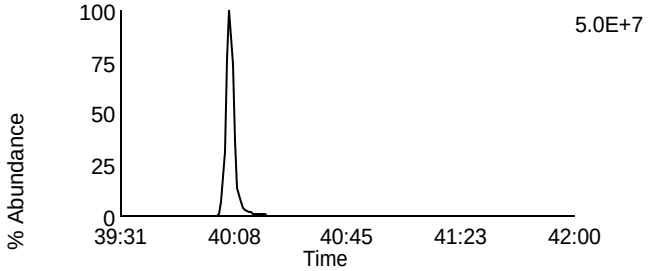
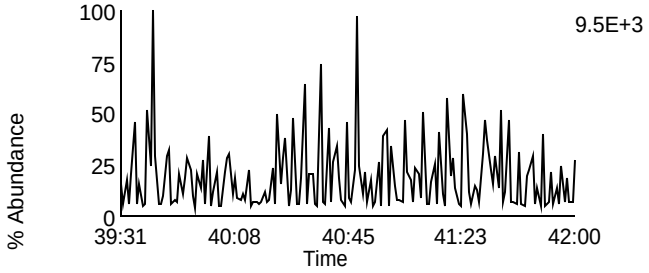


Data File: U140328B_02 G5 C13 - 513.6775
CAL CS3/CPM-7604-301 - BAL set windows TC



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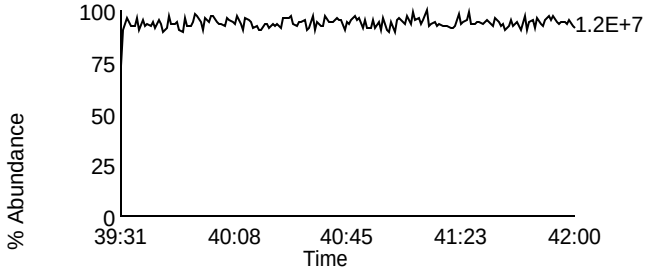
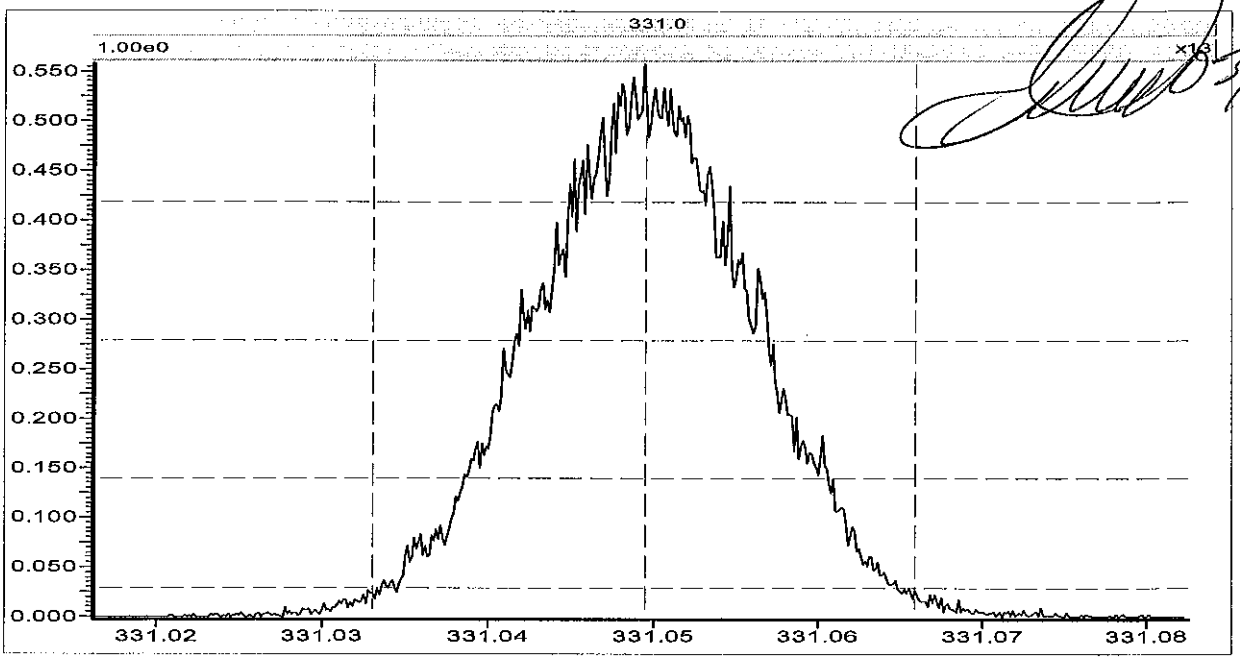


File: C:\MassLynx\Default.pro\Acqudb\P10MSHR09.ipr

Printed: Friday, March 21, 2014 15:11:44 Central Daylight Time

BAL 3/21/14

3/24/14



Source (EI+)

Ion Repeller (V)	-7.02
Focus 1	333
Beam Centre	27.3
Focus 2	4359
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-6.0
Z Deflect 1	65.2
Z Deflect 2	-32.1
Z Focus 2	2332
Z Focus 3	0
Z Deflect 3	24.9
Y Focus	3638
Rotate 2	12.4
Curve 2	-8.5
Curve 3	8.4
Rotate 3	-46.8
Rotate 4	4.3
V Acc (V)	7991.22
Magnet Mass	331.0
Source Slit	20.10
Collector Slit	15.02
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	5.00
Z4 Restrictor	Off
Vacc Limit	8000

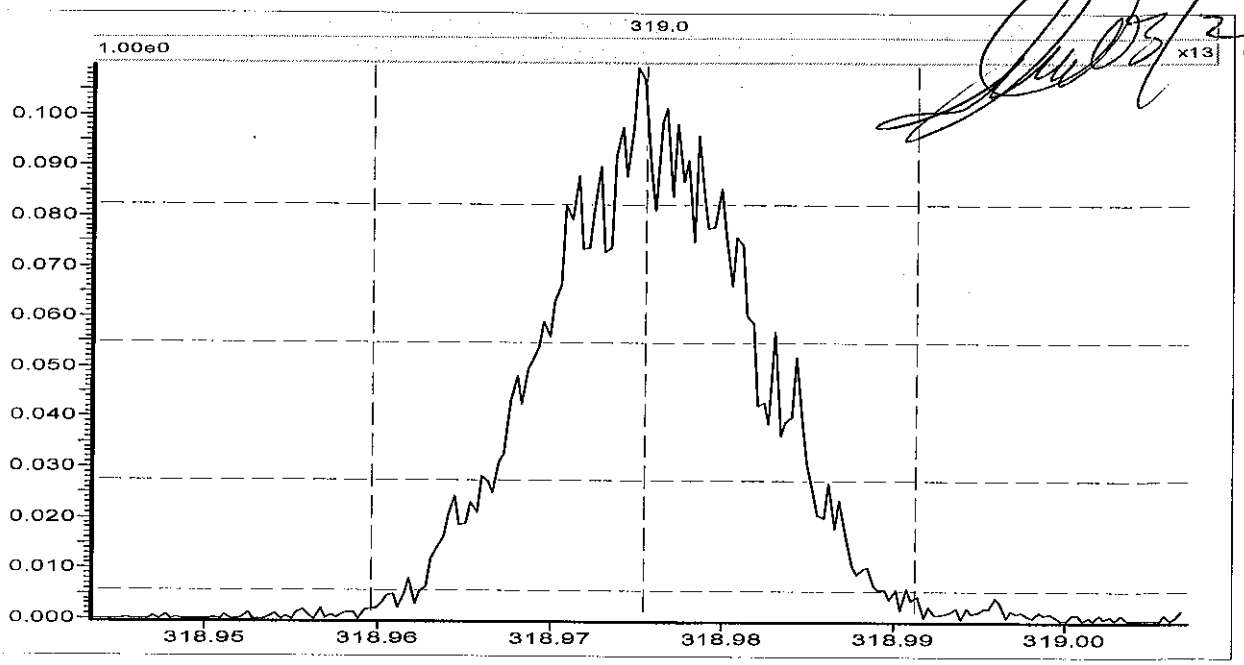
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.PRO\ACQUDB\P10MSHR09.ipr

Printed: Saturday, March 22, 2014 11:35:29 Central Daylight Time

BAC 3/22/14
end of shift
3/24/14



Source (EI+)

Ion Repeller (V)	-7.02
Focus 1	333
Beam Centre	27.3
Focus 2	4359
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-6.0
Z Deflect 1	65.2
Z Deflect 2	-32.1
Z Focus 2	2332
Z Focus 3	0
Z Deflect 3	24.9
Y Focus	3638
Rotate 2	12.4
Curve 2	-8.5
Curve 3	8.4
Rotate 3	-46.8
Rotate 4	4.3
V Acc (V)	7991.22
Magnet Mass	331.0
Source Slit	20.10
Collector Slit	15.02
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	5.00
Z4 Restrictor	Off
Vacc Limit	8000

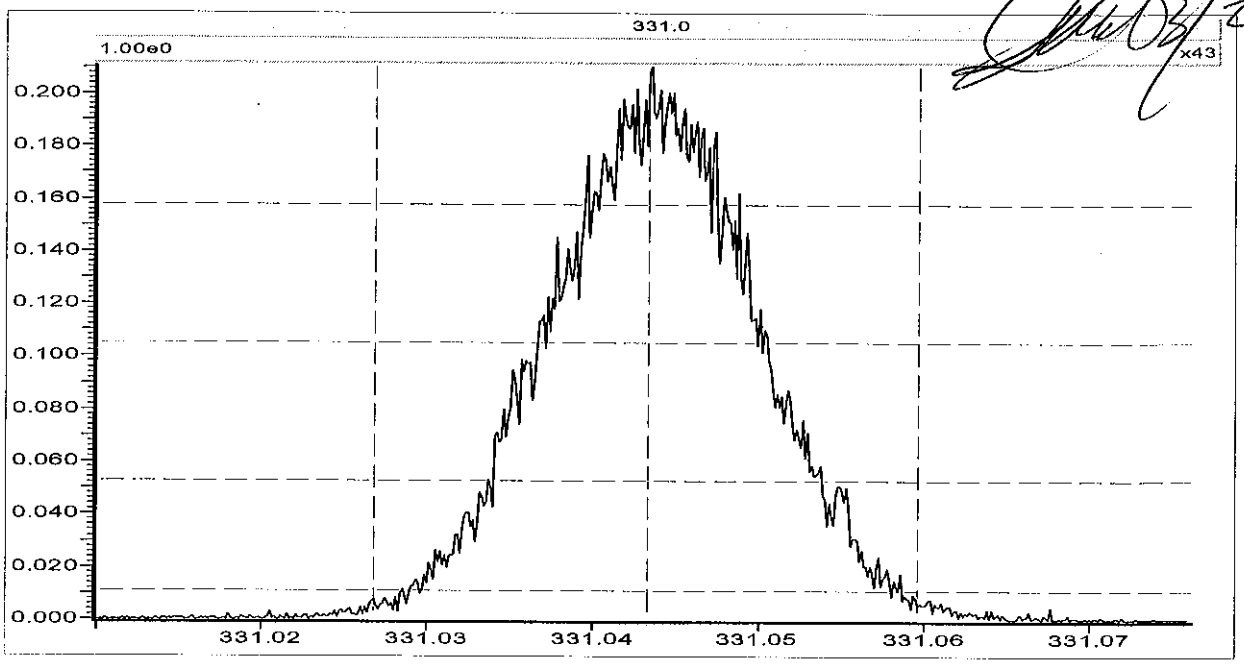
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\P10MSHR09.ipr

Printed: Saturday, March 22, 2014 12:07:33 Central Daylight Time

BAZ 3/22/14



Source (EI+)

Ion Repeller (V)	-7.07
Focus 1	351
Beam Centre	27.0
Focus 2	4359
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-6.0
Z Deflect 1	65.2
Z Deflect 2	-32.1
Z Focus 2	2332
Z Focus 3	0
Z Deflect 3	24.9
Y Focus	3635
Rotate 2	12.4
Curve 2	-8.5
Curve 3	8.4
Rotate 3	-46.8
Rotate 4	4.3
V Acc (V)	7991.36
Magnet Mass	331.0
Source Slit	20.10
Collector Slit	15.02
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	5.00
Z4 Restrictor	Off
Vacc Limit	8000

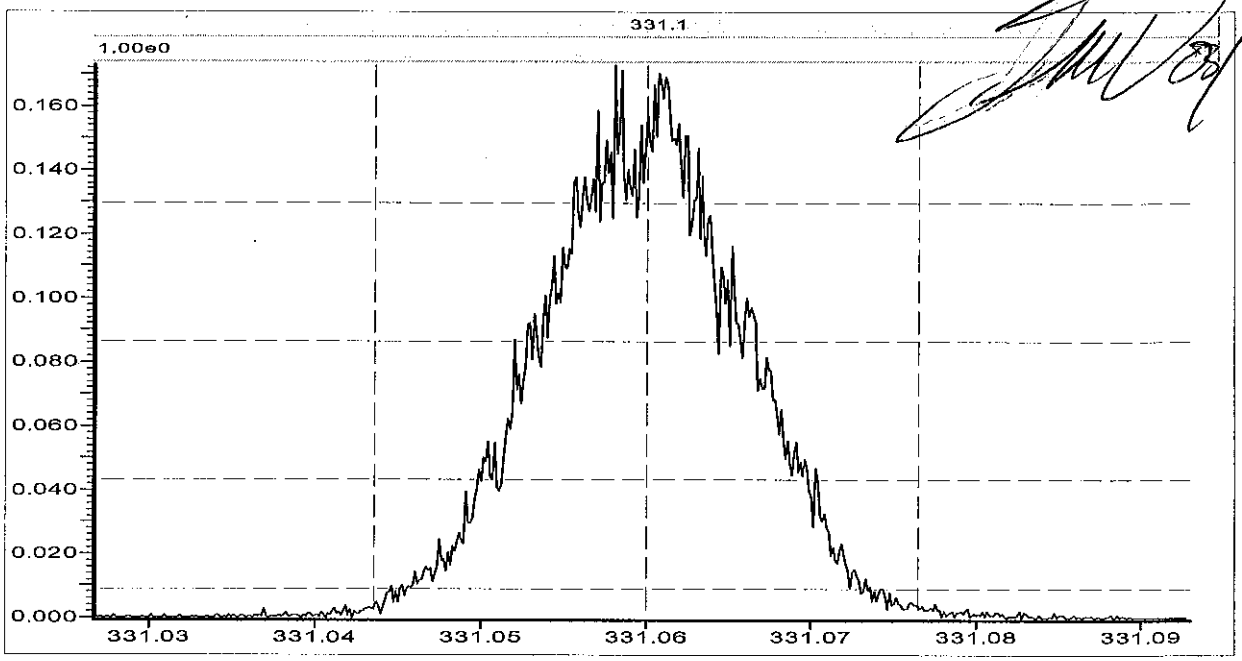
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\P10MSHR09.ipr

Printed: Sunday, March 23, 2014 10:44:15 Central Daylight Time

BAL 3/23/14
end of shift
3/24/14



Source (EI+)

Ion Repeller (V)	-7.07
Focus 1	351
Beam Centre	27.0
Focus 2	4359
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-6.0
Z Deflect 1	65.2
Z Deflect 2	-32.1
Z Focus 2	2332
Z Focus 3	0
Z Deflect 3	24.9
Y Focus	3635
Rotate 2	12.4
Curve 2	-8.5
Curve 3	8.4
Rotate 3	-46.8
Rotate 4	4.3
V Acc (V)	7990.95
Magnet Mass	331.1
Source Slit	20.10
Collector Slit	15.02
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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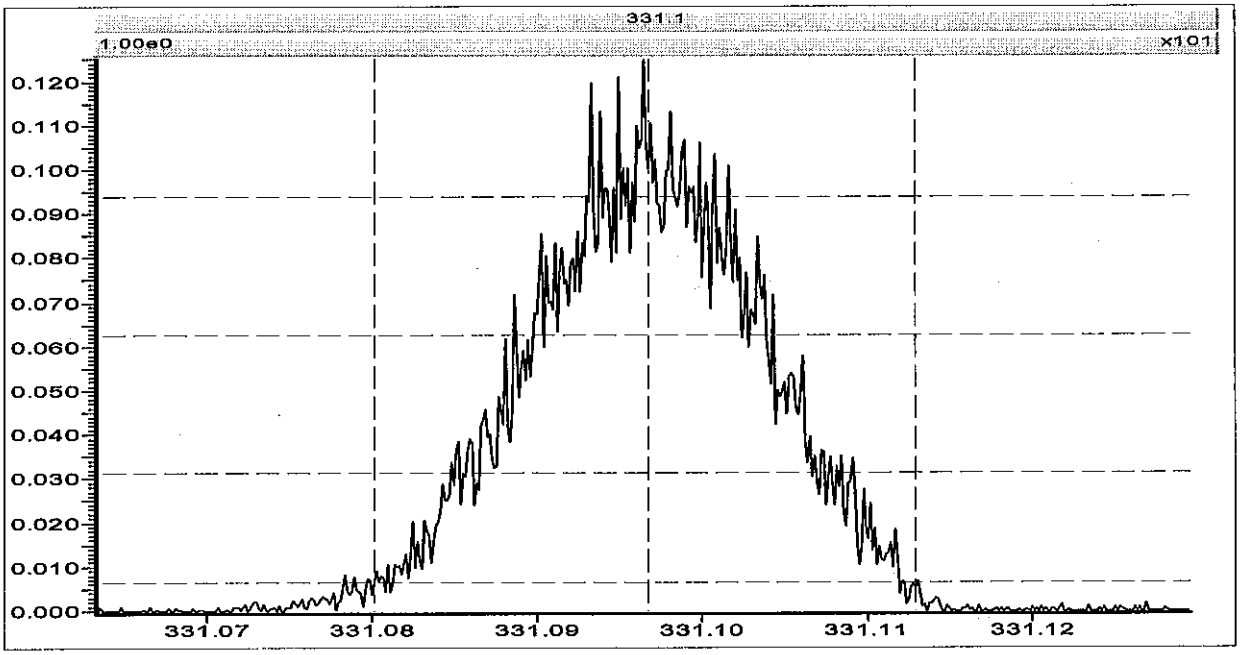

Source (EI+)

Ion Repeller (V)	-6.49
Focus 1	640
Beam Centre	14.7
Focus 2	4048
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-60.4
Z Deflect 1	-66.3
Z Deflect 2	-25.9
Z Focus 2	2310
Z Focus 3	0
Z Deflect 3	-12.9
Y Focus	3716
Rotate 2	10.5
Curve 2	1.6
Curve 3	2.8
Rotate 3	-48.3
Rotate 4	0.2
V Acc (V)	7986.58
Magnet Mass	331.1
Source Slit	19.40
Collector Slit	13.56
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	350
Ion Energy	1.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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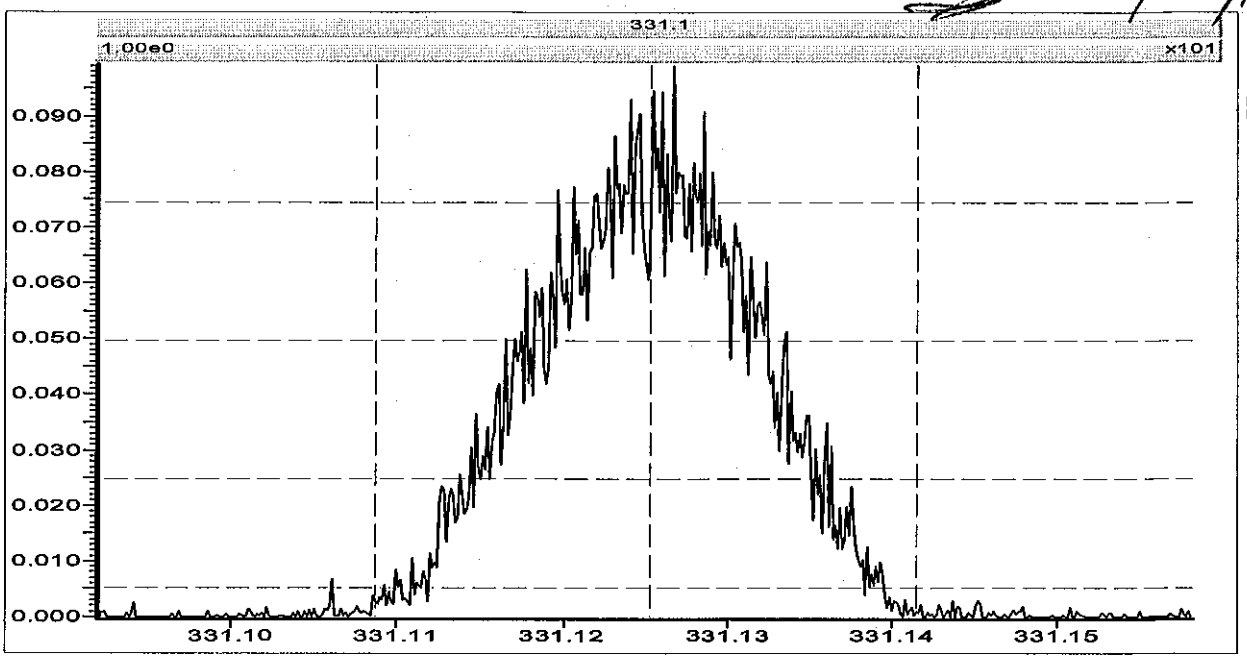
Printed: Monday, June 24, 2013 16:23:59 Central Daylight Time

06/24/13

BAL 6/24/13



Source (EI+)

Ion Repeller (V)	-6.49
Focus 1	640
Beam Centre	14.7
Focus 2	4048
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-60.4
Z Deflect 1	-66.3
Z Deflect 2	-25.9
Z Focus 2	2310
Z Focus 3	0
Z Deflect 3	-12.9
Y Focus	3716
Rotate 2	10.5
Curve 2	1.6
Curve 3	2.8
Rotate 3	-48.3
Rotate 4	0.2
V Acc (V)	7985.90
Magnet Mass	331.1
Source Slit	19.40
Collector Slit	13.56
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	350
Ion Energy	1.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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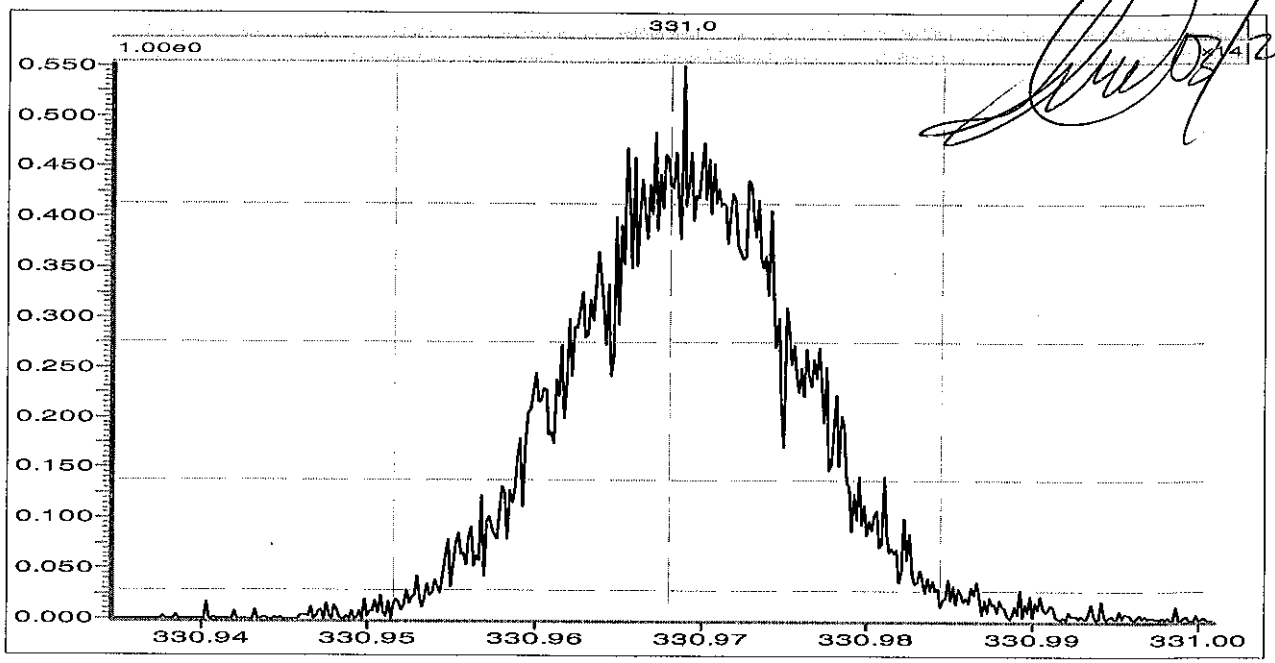
BAL 3/22/14



Source (EI+)

Ion Repeller (V)	-11.24
Focus 1	910
Beam Centre	45.1
Focus 2	3908
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-46.1
Z Deflect 1	-70.6
Z Deflect 2	14.5
Z Focus 2	2294
Z Focus 3	0
Z Deflect 3	17.5
Y Focus	3473
Rotate 2	-9.7
Curve 2	11.2
Curve 3	1.0
Rotate 3	-1.8
Rotate 4	1.3
V Acc (V)	7989.45
Magnet Mass	331.0
Source Slit	19.38
Collector Slit	34.20
MIKES Slit	100.00
Alpha	80.00
Detector Voltage	400
Ion Energy	-5.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

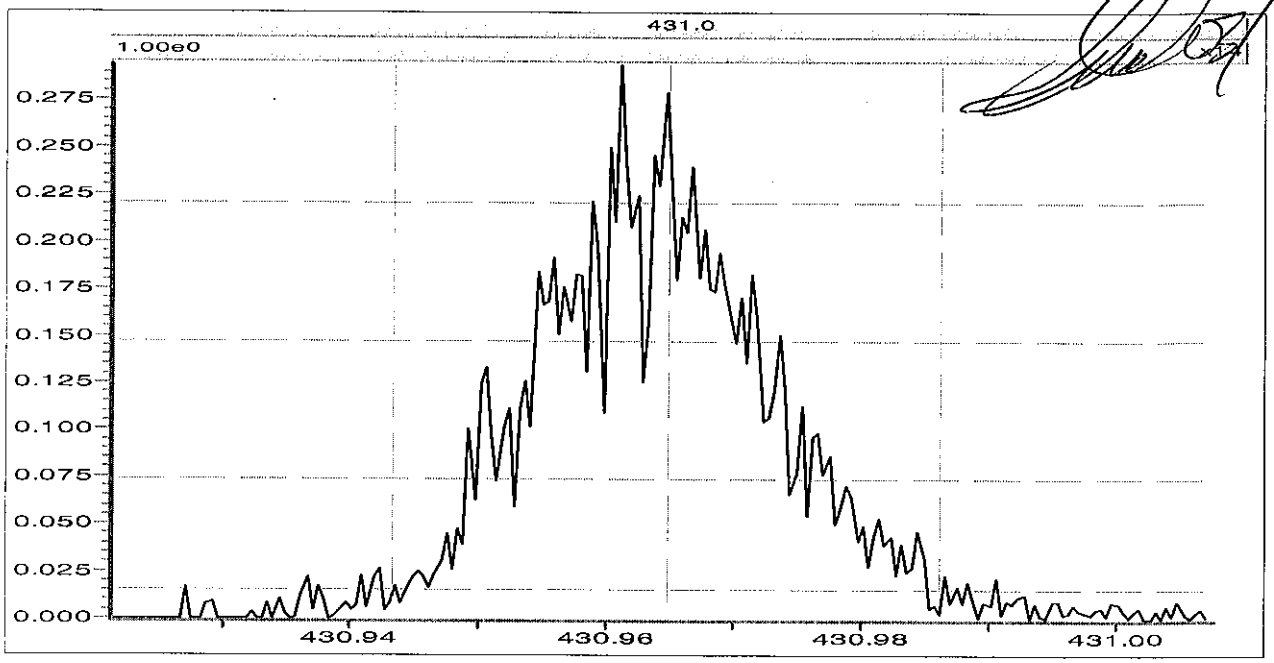
Engineer
No information

AutoSpec Tune Parameters **MassLynx 4.1 SCN 881**

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

Printed: Sunday, March 23, 2014 10:42:47 Central Daylight Time

BAL 3/23/14
end of draft
3/24/14



Source (EI+)

Ion Repeller (V)	-11.24
Focus 1	910
Beam Centre	45.1
Focus 2	3908
Temperature (C)	280
Elec Energy (eV)	35.2
Trap Current (uA)	500.0
Y Deflect 1	-46.1
Z Deflect 1	-70.6
Z Deflect 2	14.5
Z Focus 2	2294
Z Focus 3	0
Z Deflect 3	17.5
Y Focus	3473
Rotate 2	-9.7
Curve 2	11.2
Curve 3	1.0
Rotate 3	-1.8
Rotate 4	1.3
V Acc (V)	7989.45
Magnet Mass	331.0
Source Slit	19.38
Collector Slit	34.20
MIKES Slit	100.00
Alpha	80.00
Detector Voltage	400
Ion Energy	-5.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\U10MSHR06.IPR

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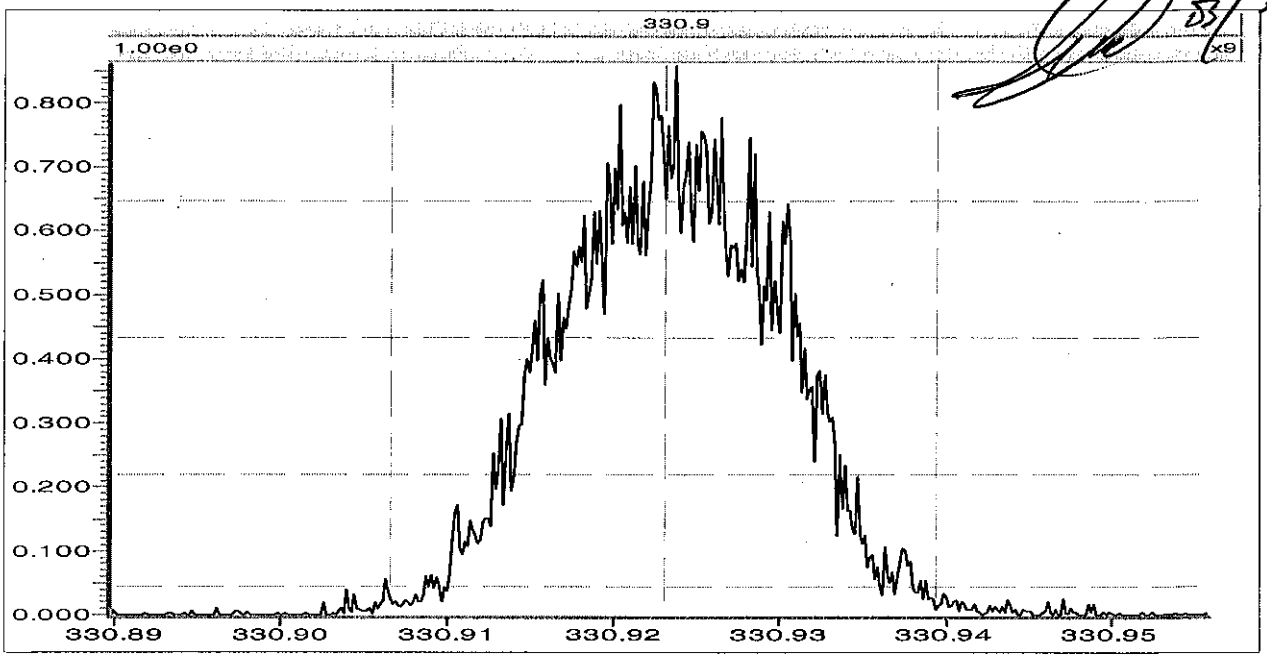
BAL 3/28/14

DB 3/31/14



Source (EI+)

Ion Repeller (V)	-10.60
Focus 1	836
Beam Centre	78.0
Focus 2	3995
Temperature (C)	280
Elec Energy (eV)	32.6
Trap Current (uA)	500.0
Y Deflect 1	-115.8
Z Deflect 1	-6.6
Z Deflect 2	-3.8
Z Focus 2	2244
Z Focus 3	0
Z Deflect 3	3.3
Y Focus	3620
Rotate 2	-9.5
Curve 2	6.7
Curve 3	-0.9
Rotate 3	-0.9
Rotate 4	7.4
V Acc (V)	7989.09
Magnet Mass	330.9
Source Slit	20.58
Collector Slit	34.62
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	16.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

BAL 3/29/14

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

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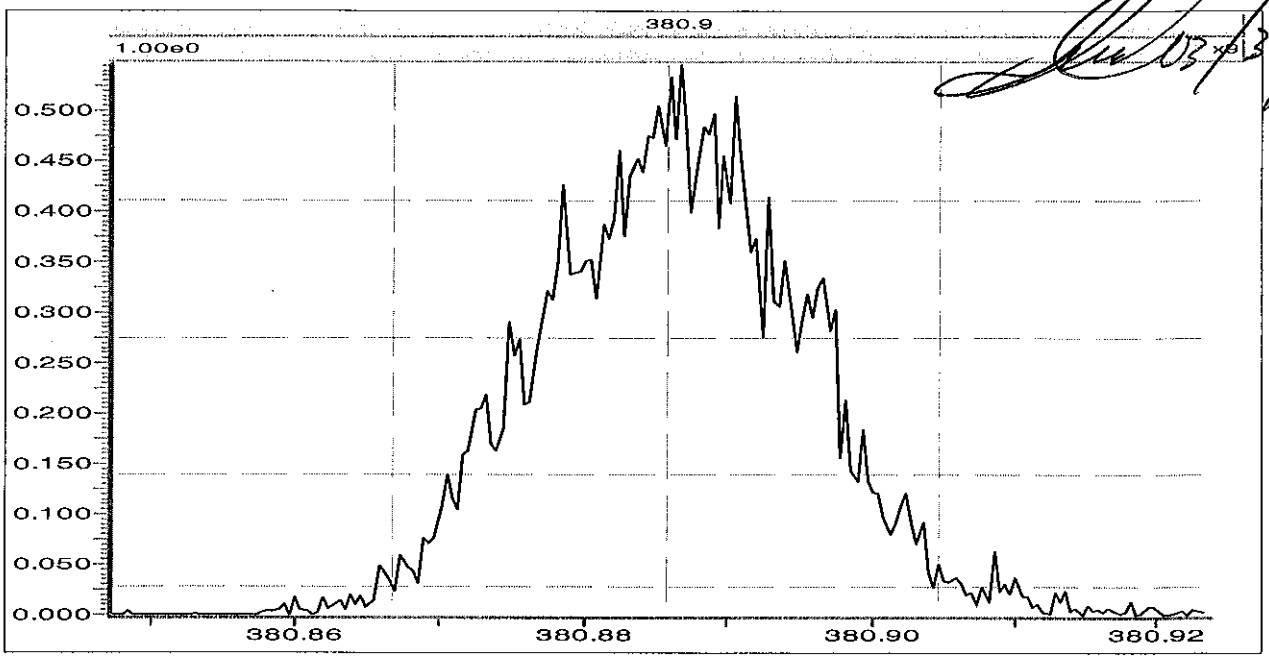

Source (EI+)

Ion Repeller (V)	-10.60
Focus 1	836
Beam Centre	78.0
Focus 2	3995
Temperature (C)	280
Elec Energy (eV)	32.6
Trap Current (uA)	500.0
Y Deflect 1	-115.8
Z Deflect 1	-6.6
Z Deflect 2	-3.8
Z Focus 2	2244
Z Focus 3	0
Z Deflect 3	3.3
Y Focus	3620
Rotate 2	-9.5
Curve 2	6.7
Curve 3	-0.9
Rotate 3	-0.9
Rotate 4	7.4
V Acc (V)	7989.09
Magnet Mass	330.9
Source Slit	20.58
Collector Slit	34.62
MIKES Slit	100.00
Alpha	100.00
Detector Voltage	400
Ion Energy	16.30
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

Appendix F

QC Raw Data

Homologue Group: Tetras

Data File Name: P140321B_08
Date Acquired: 3/21/2014
Sample Description: BLANK BLANK-39710 - BAL

Lab Sample ID: BLANK-39710
Client Sample ID:
Instrument: 10MSHR09 (P)

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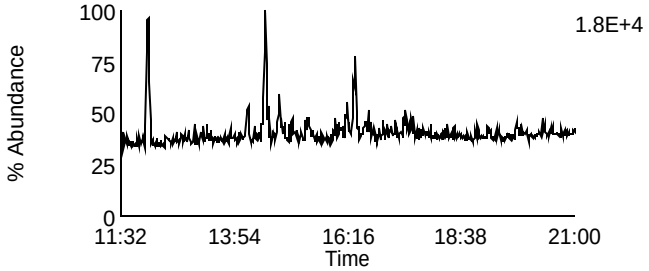

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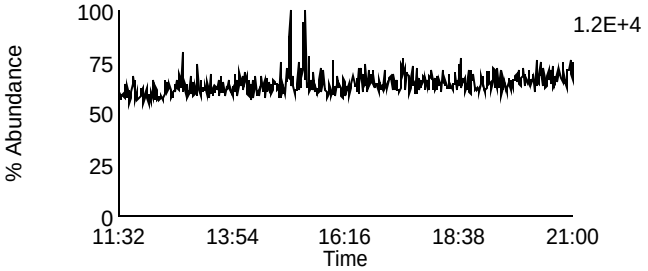

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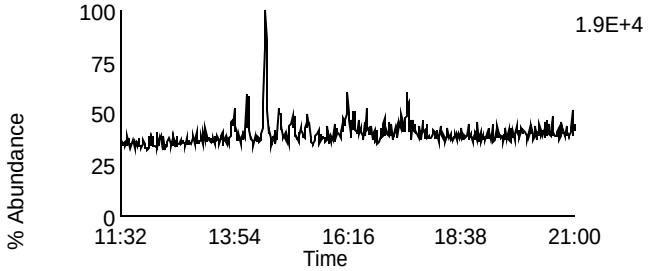

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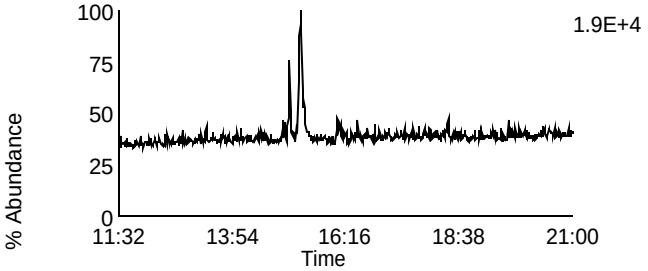

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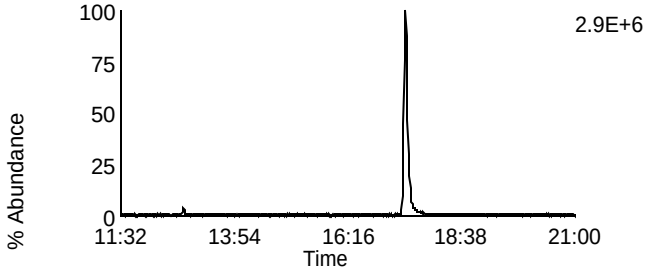

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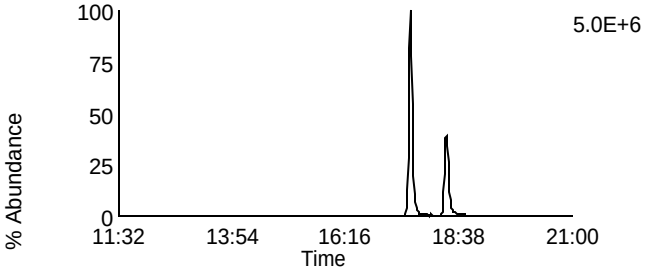

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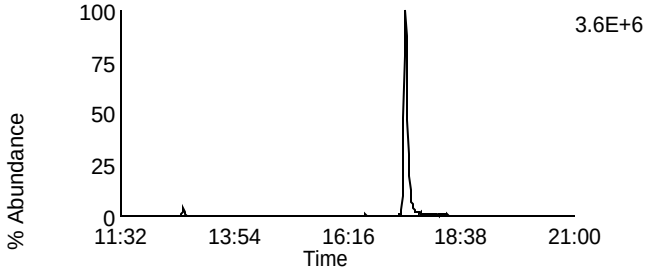

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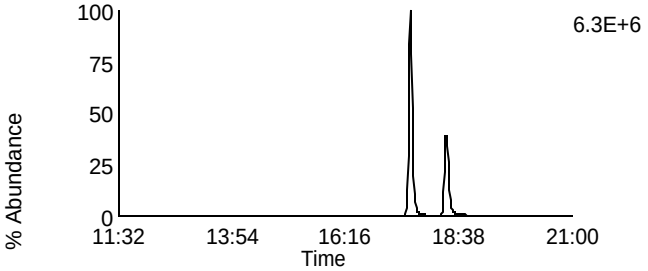

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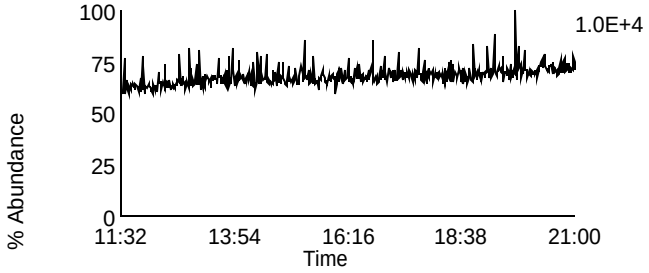

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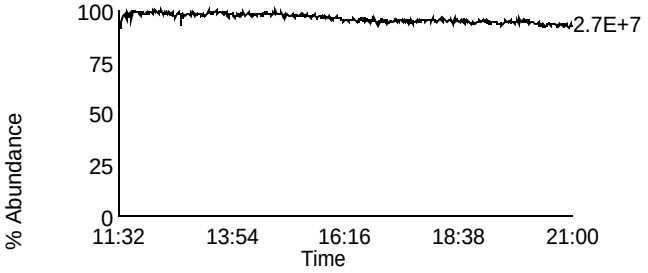
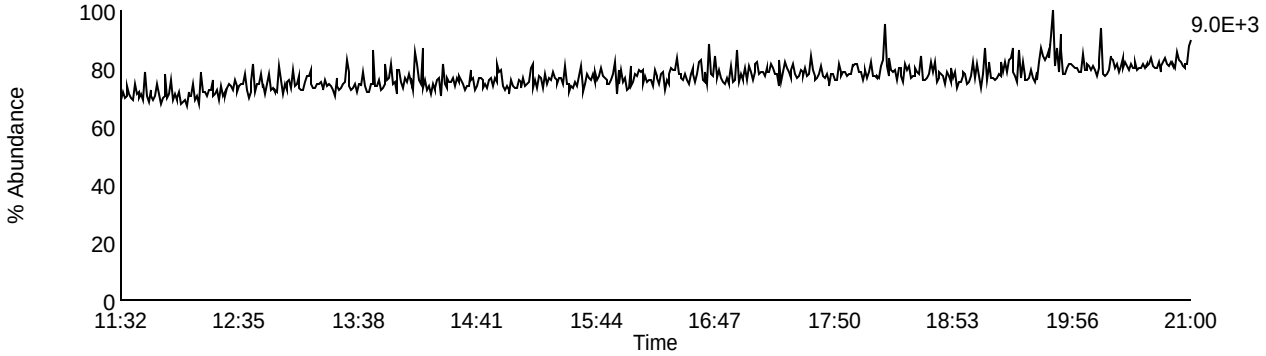
BLANK BLANK-39710 - BAL



Homologue Group: Penta & Cleanup

Data File Name: P140321B_08	Lab Sample ID: BLANK-39710
Date Acquired: 3/21/2014	Client Sample ID:
Sample Description: BLANK BLANK-39710 - BAL	Instrument: 10MSHR09 (P)

Data File: P140321B_08 G1 C12 - 339.8597
BLANK BLANK-39710 - BAL



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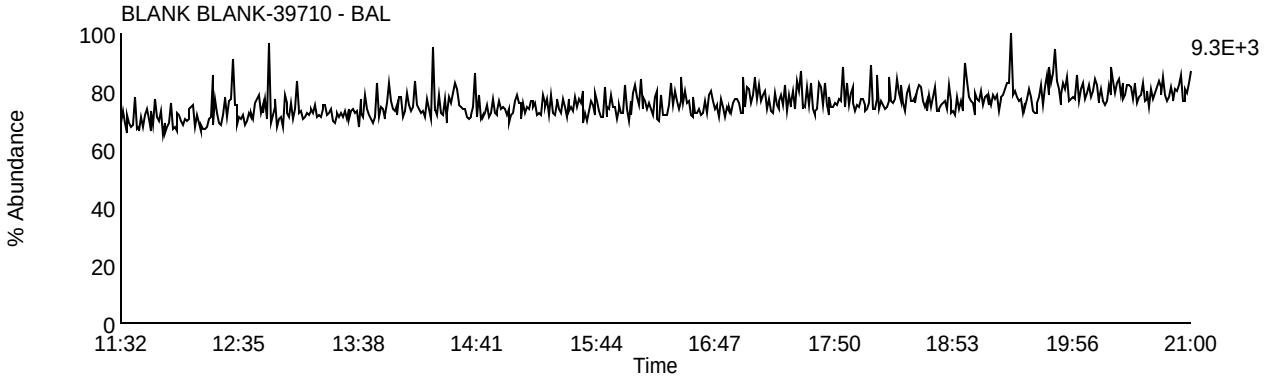

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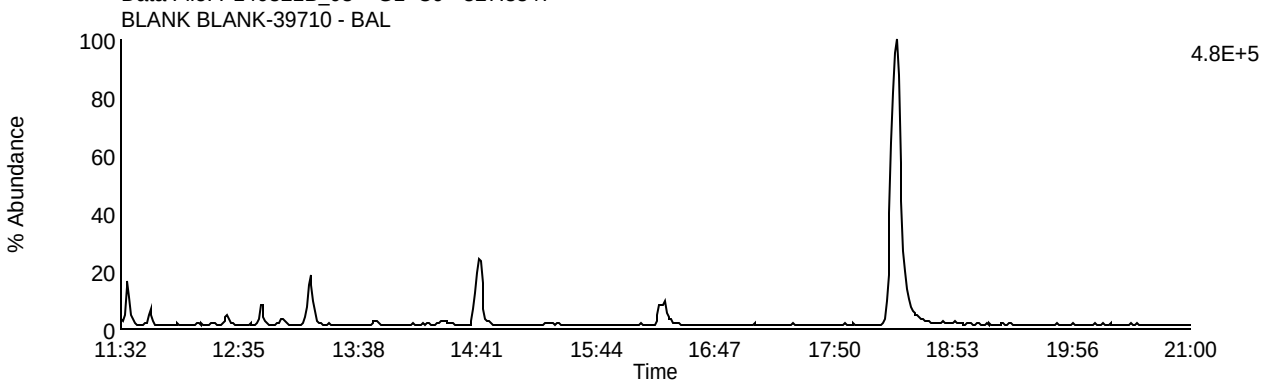

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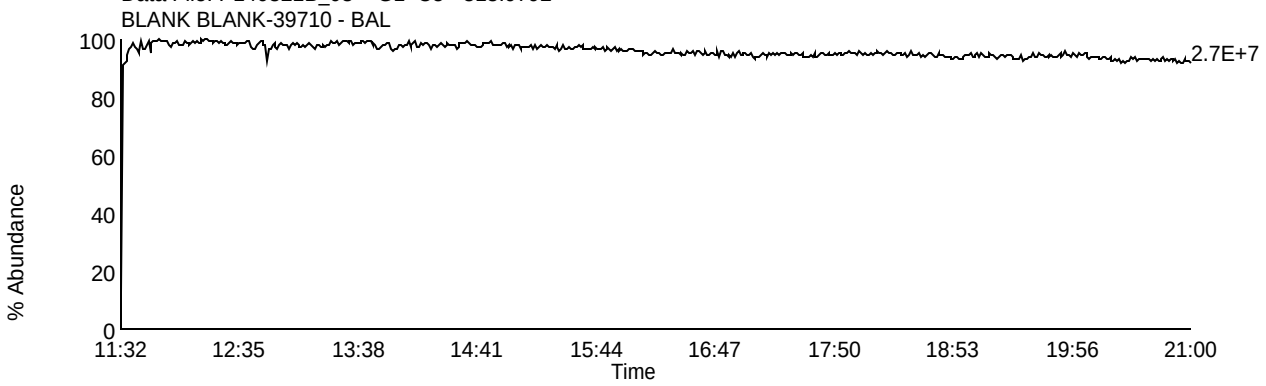
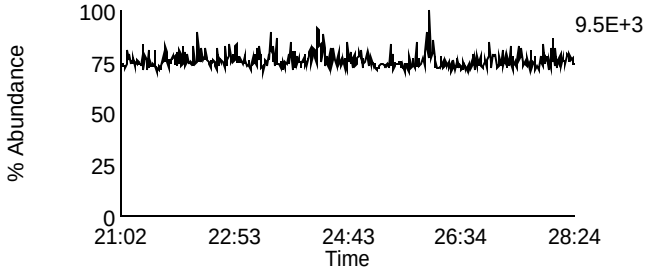


Homologue Group: Pentas

Data File Name: P140321B_08
Date Acquired: 3/21/2014
Sample Description: BLANK BLANK-39710 - BAL

Lab Sample ID: BLANK-39710
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P140321B_08 G2 C1 - 339.8597
BLANK BLANK-39710 - BAL



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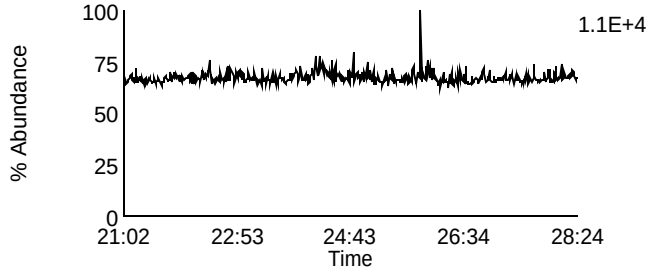

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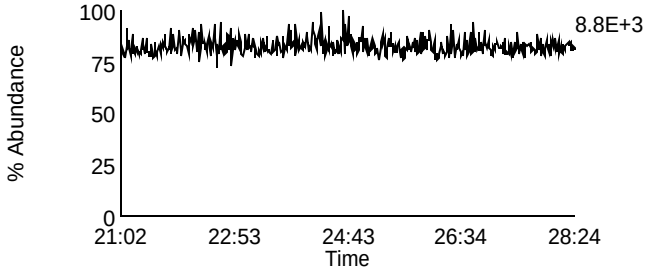

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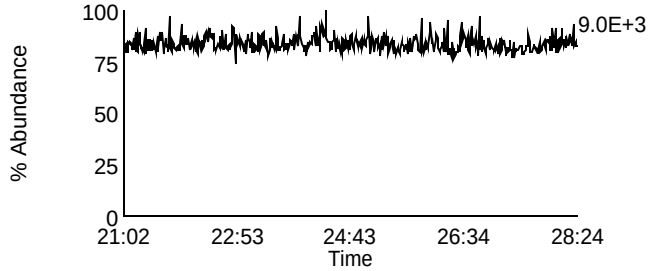

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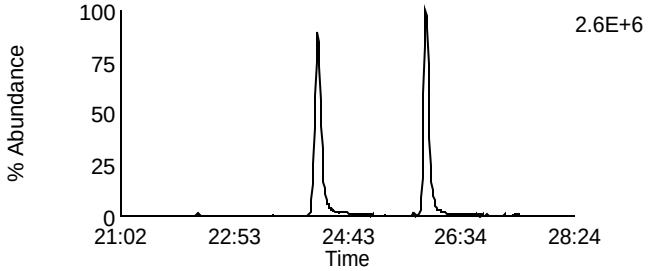

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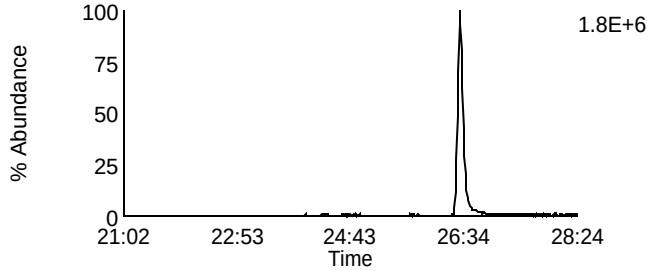

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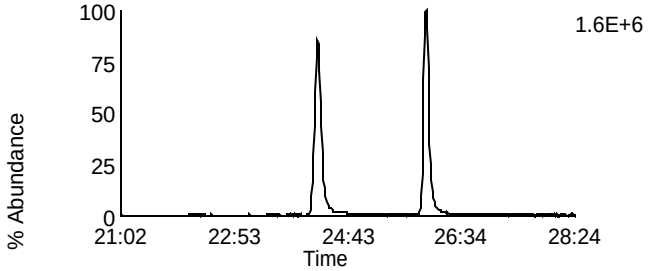

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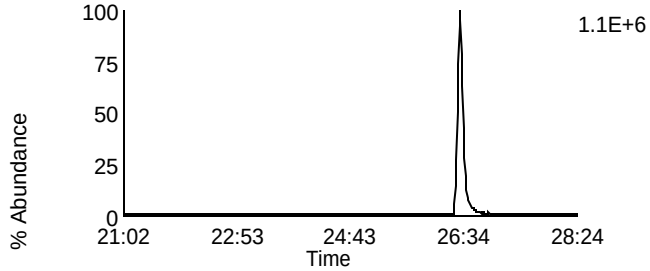

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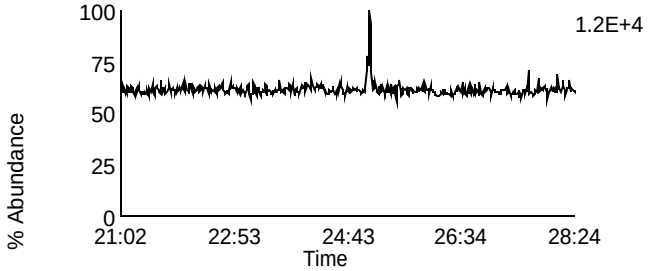

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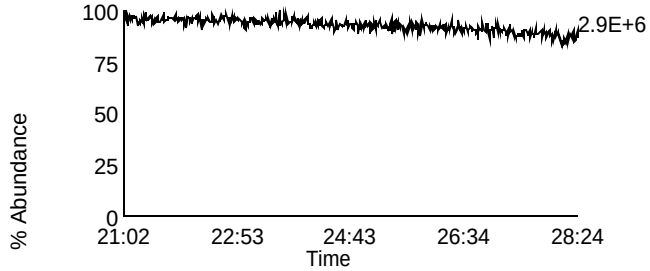

Homologue Group: Hexas

Data File Name: P140321B_08
Date Acquired: 3/21/2014
Sample Description: BLANK BLANK-39710 - BAL

Lab Sample ID: BLANK-39710
Client Sample ID:
Instrument: 10MSHR09 (P)

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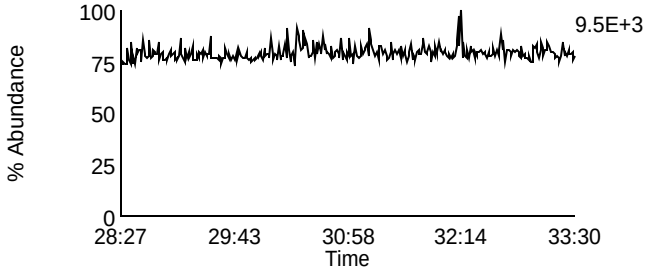

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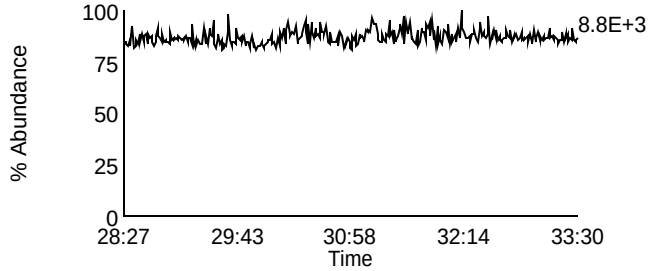

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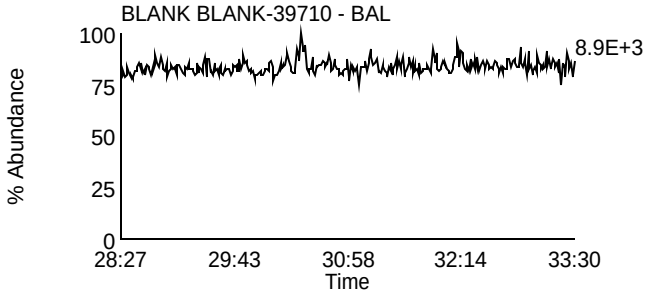

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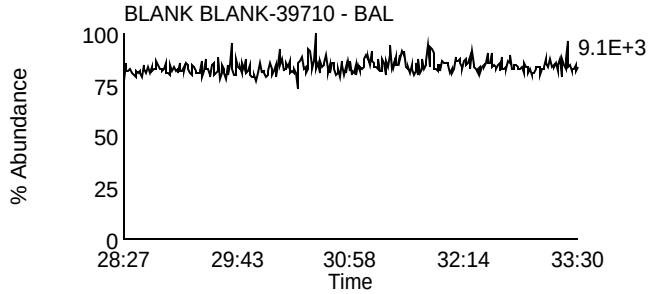

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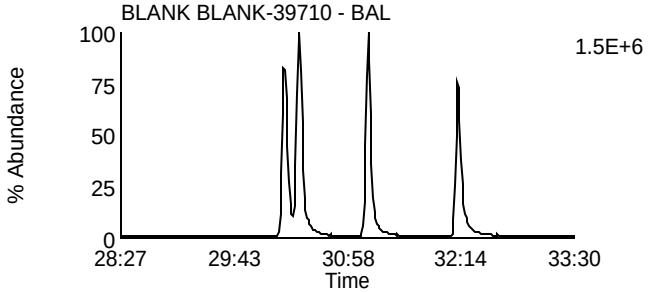

Data File: P140321B_08 G3 C9 - 401.8559
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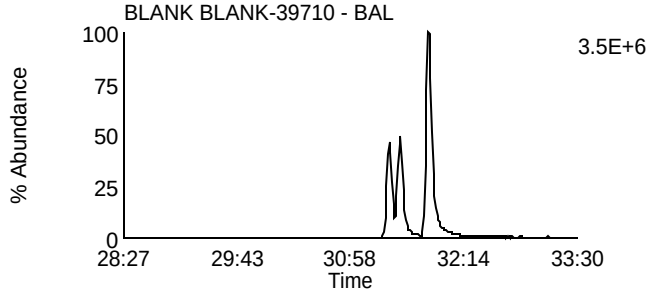

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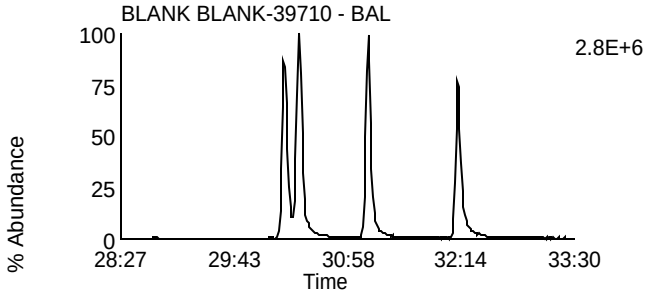

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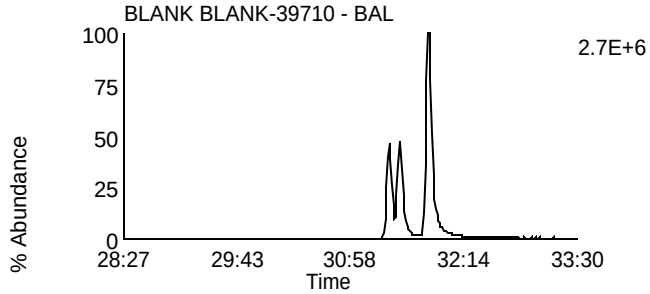

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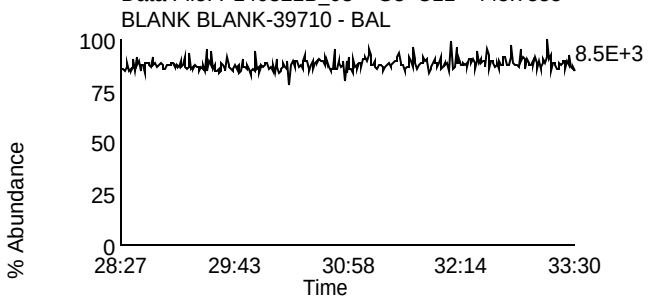

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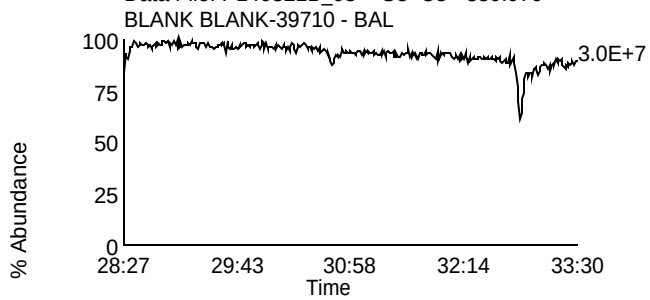

Homologue Group: Heptas

Data File Name: P140321B_08
Date Acquired: 3/21/2014
Sample Description: BLANK BLANK-39710 - BAL

Lab Sample ID: BLANK-39710
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P140321B_08 G4 C3 - 407.7818
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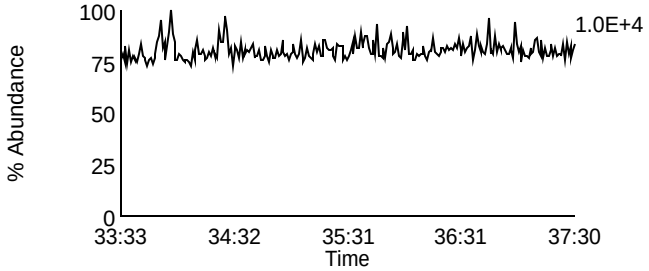

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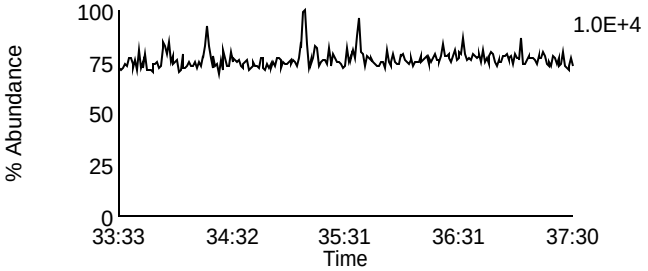

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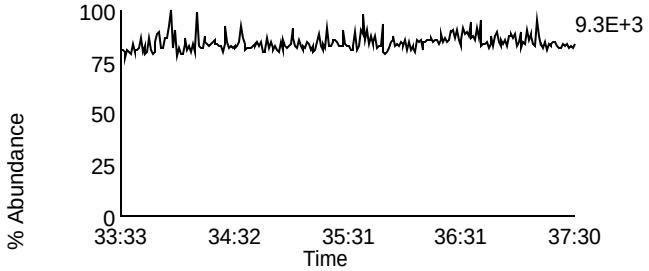
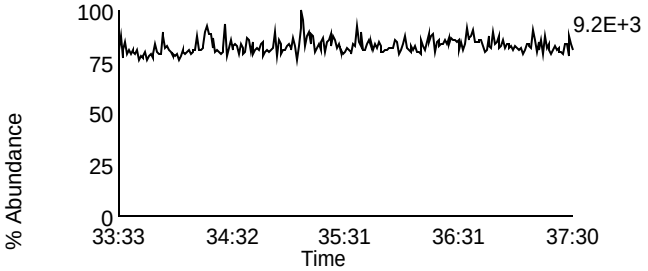


Data File: P140321B_08 G4 C9 - 425.7737
BLANK BLANK-39710 - BAL



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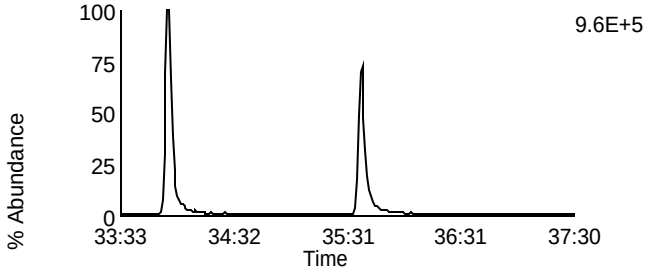

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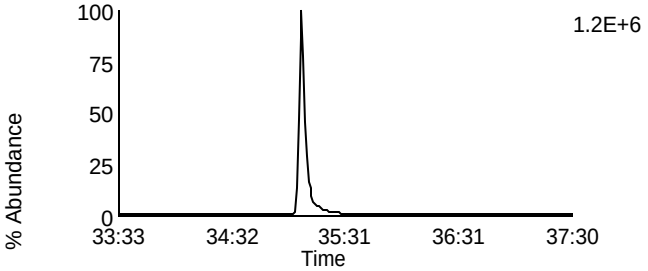

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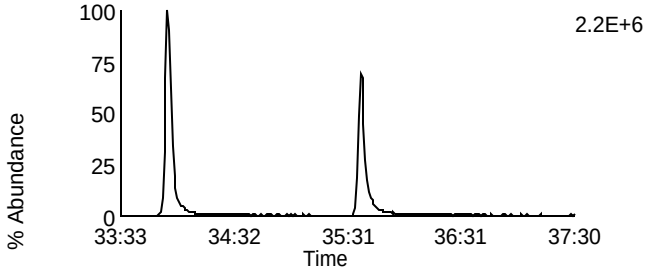

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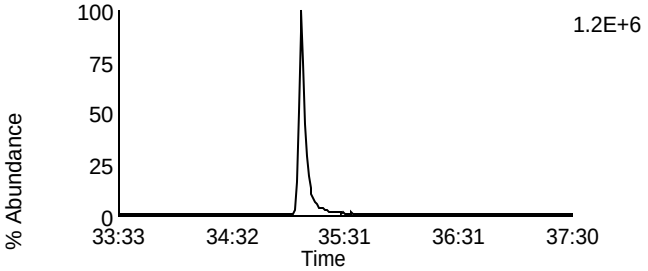

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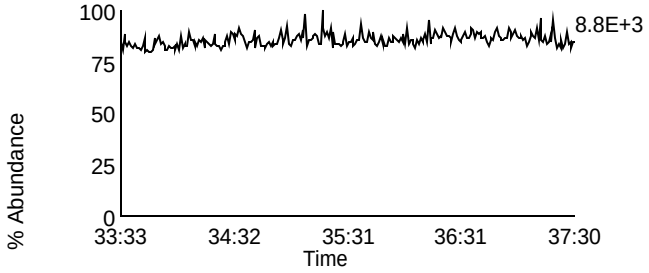

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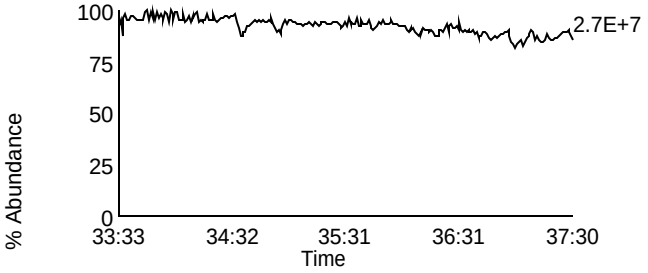
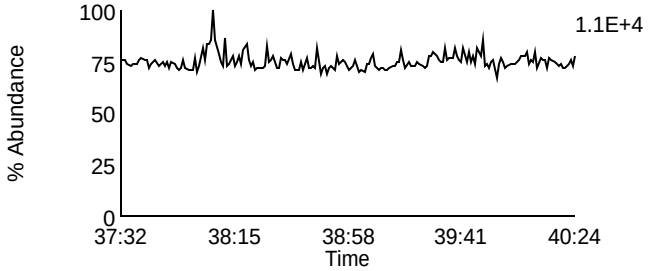


Homologue Group: Octas

Data File Name: P140321B_08
Date Acquired: 3/21/2014
Sample Description: BLANK BLANK-39710 - BAL

Lab Sample ID: BLANK-39710
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P140321B_08 G5 C4 - 441.7428
BLANK BLANK-39710 - BAL



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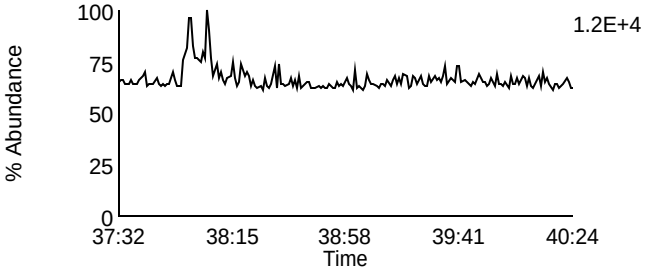

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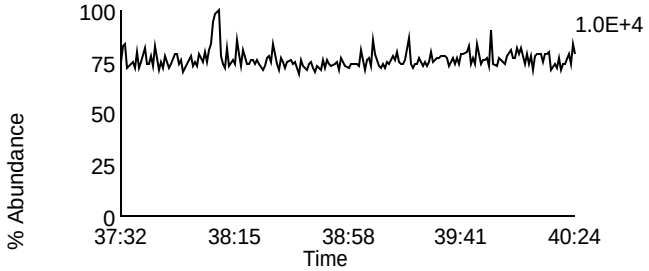

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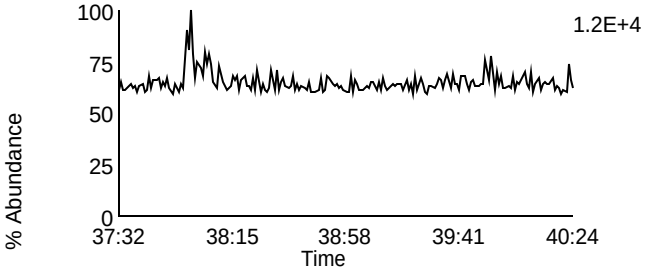

Data File: P140321B_08 G5 C11 - 469.7779
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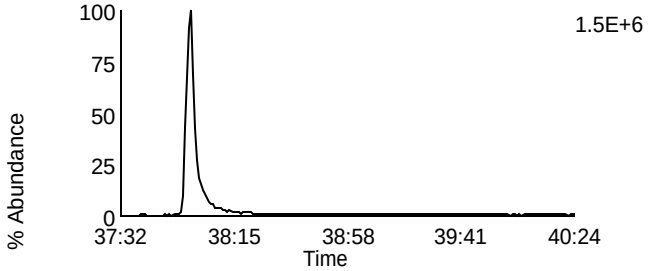

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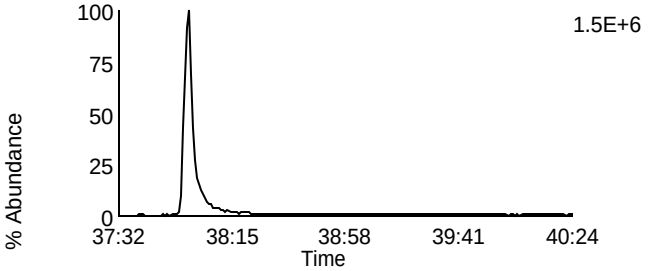

Data File: P140321B_08 G5 C12 - 471.7749
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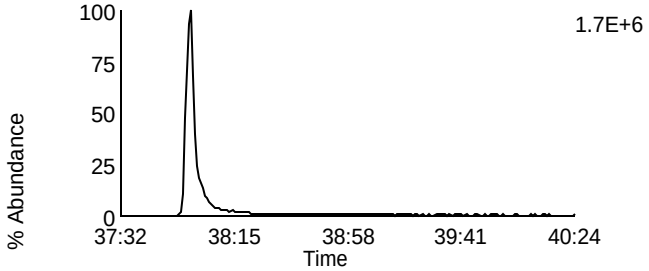

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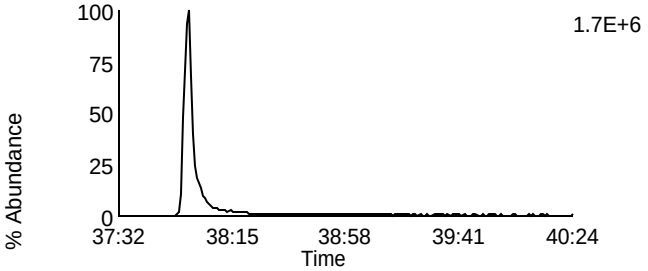

Data File: P140321B_08 G5 C13 - 513.6775
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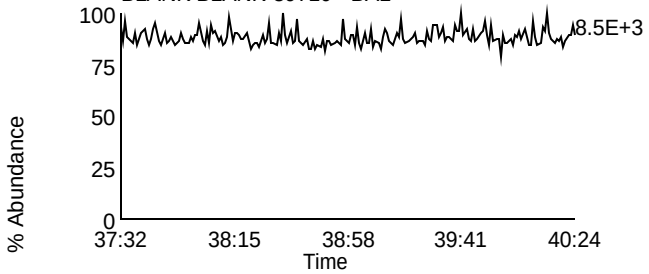

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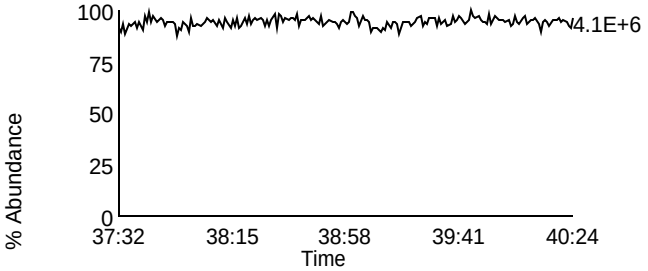
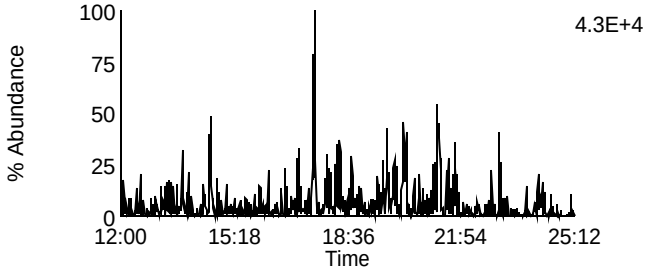


Homologue Group: Tetras

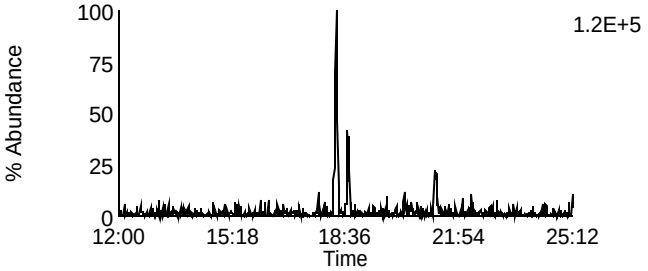
Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G1 C1 - 303.9016
BLANK BLANK-39803- BAL



Data File: U140328B_12 G1 C7 - 319.8965
BLANK BLANK-39803- BAL



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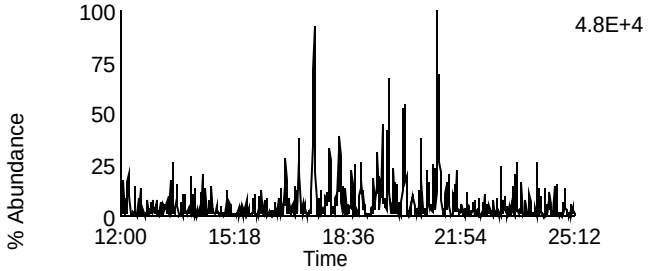

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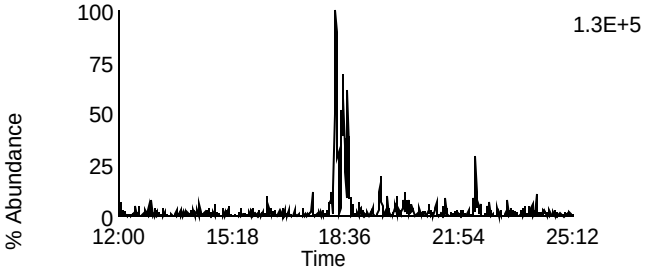

Data File: U140328B_12 G1 C3 - 315.9418
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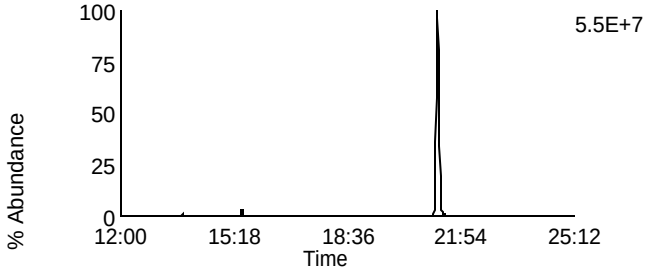

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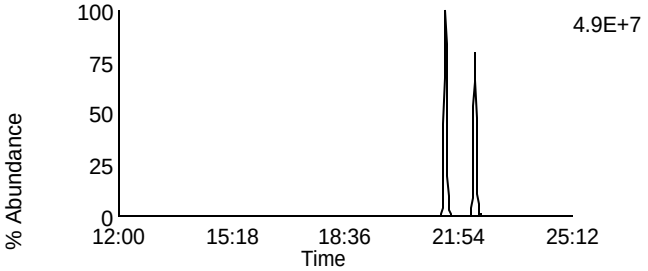

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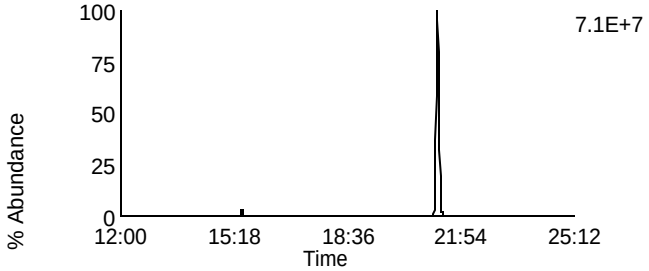

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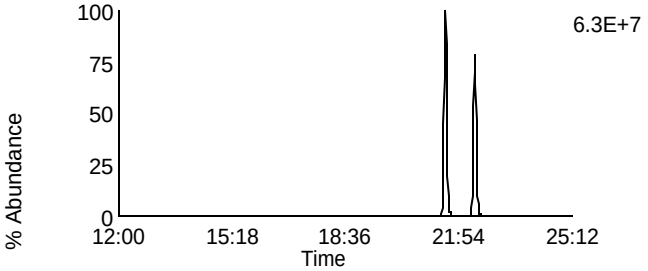

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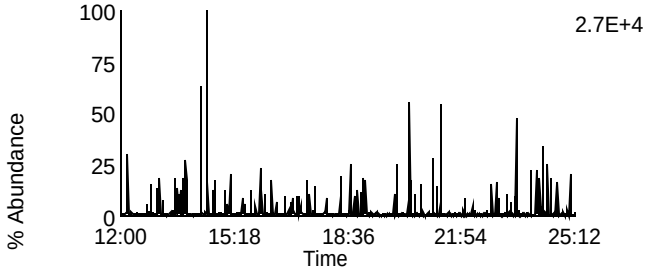

Data File: U140328B_12 G1 C5 - 318.9792
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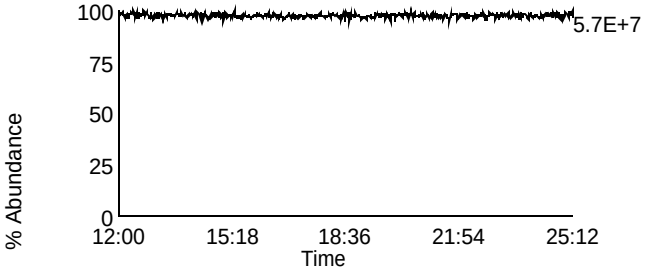

Homologue Group: Penta & Cleanup

Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G1 C12 - 339.8597
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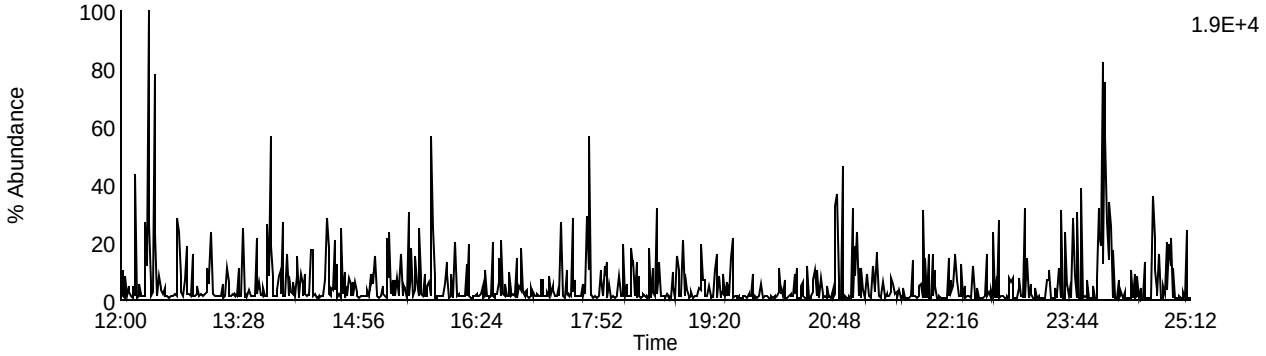

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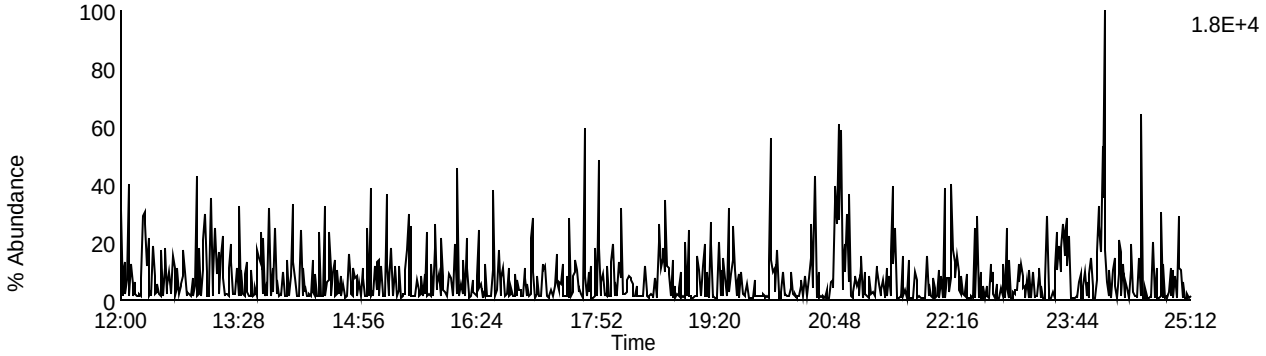

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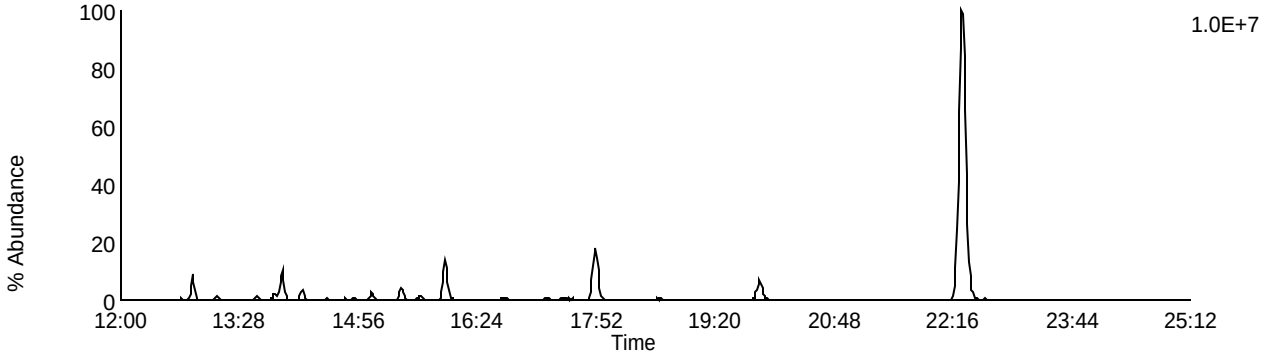

Data File: U140328B_12 G1 C5 - 318.9792
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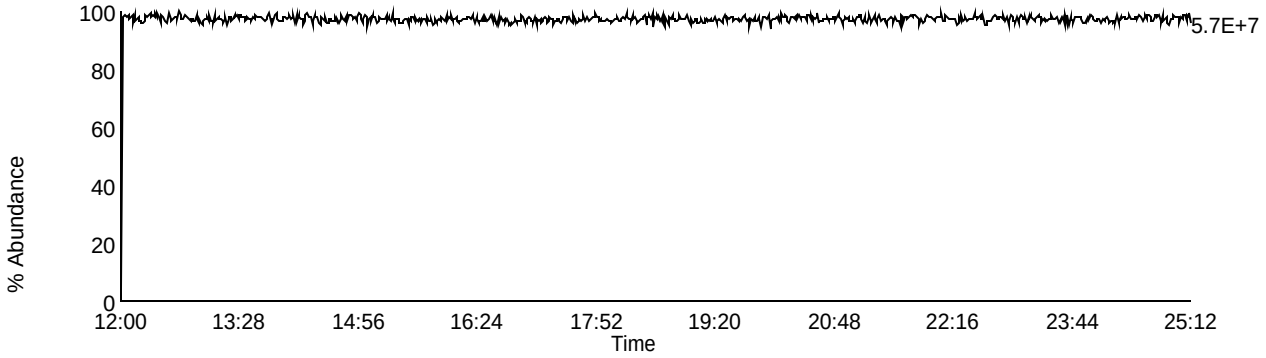
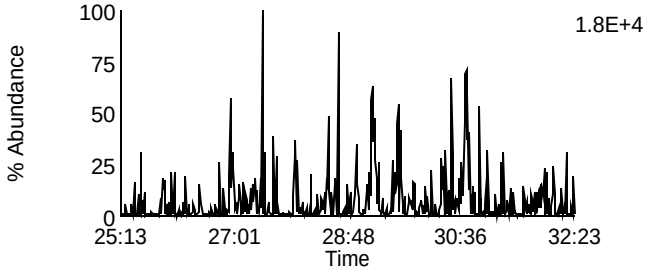


Homologue Group: Pentas

Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G2 C1 - 339.8597
BLANK BLANK-39803- BAL



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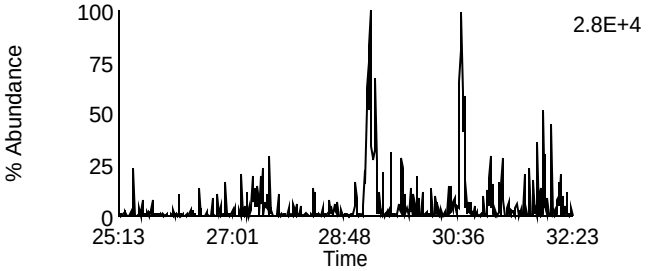

Data File: U140328B_12 G2 C2 - 341.8567
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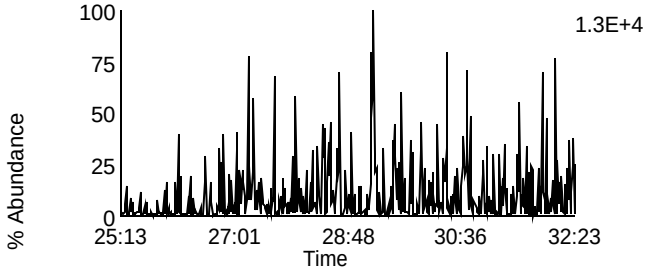

Data File: U140328B_12 G2 C8 - 355.8546
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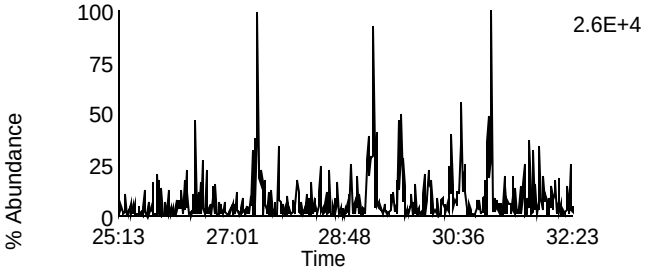

Data File: U140328B_12 G2 C3 - 351.8999
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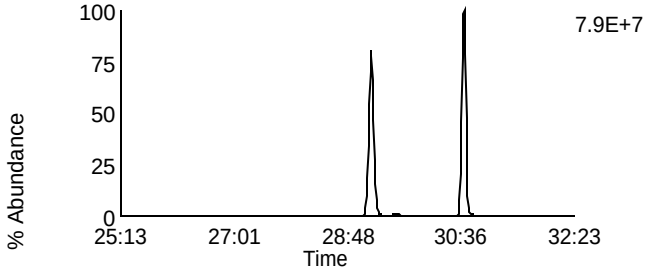

Data File: U140328B_12 G2 C10 - 367.8948
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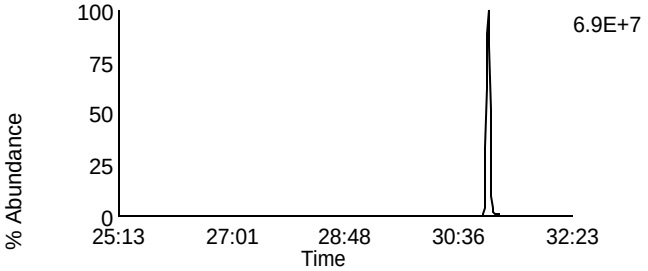

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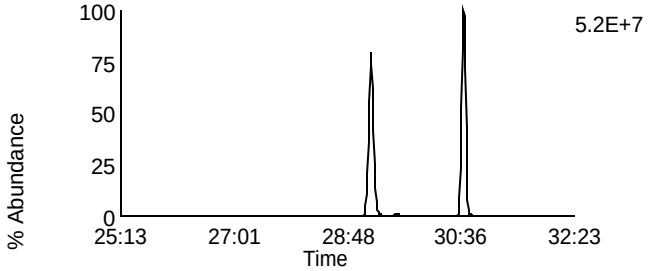

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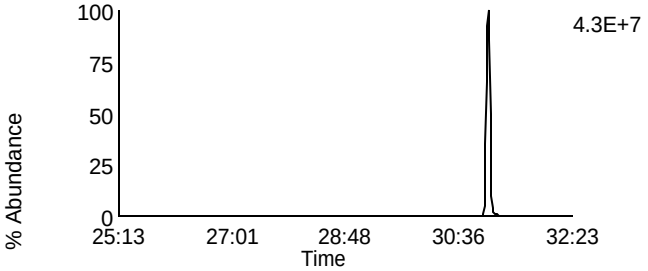

Data File: U140328B_12 G2 C12 - 409.7974
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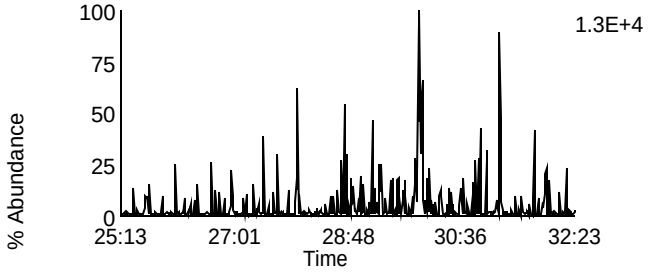

Data File: U140328B_12 G2 C6 - 354.9792
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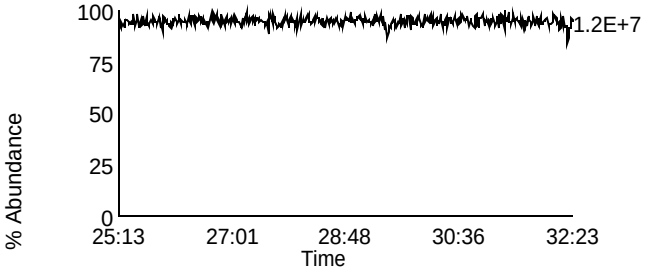

Homologue Group: Hexas

Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G3 C1 - 373.8207
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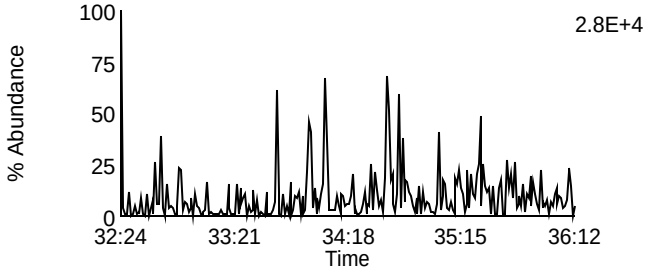

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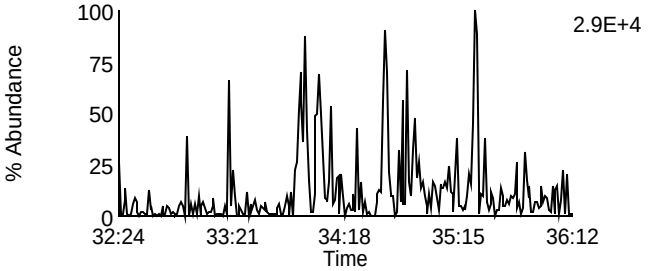
BLANK BLANK-39803- BAL



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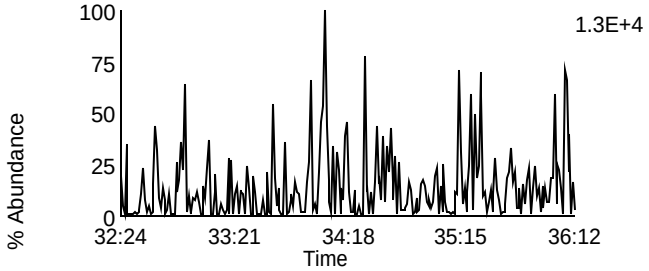
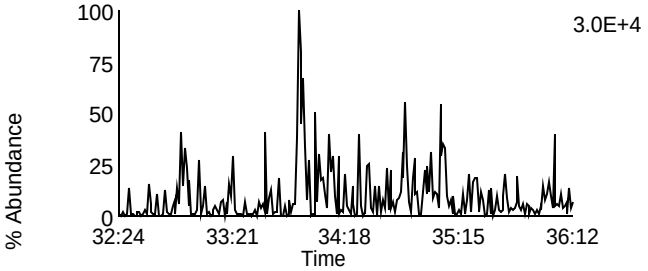


Data File: U140328B_12 G3 C8 - 391.8127
BLANK BLANK-39803- BAL



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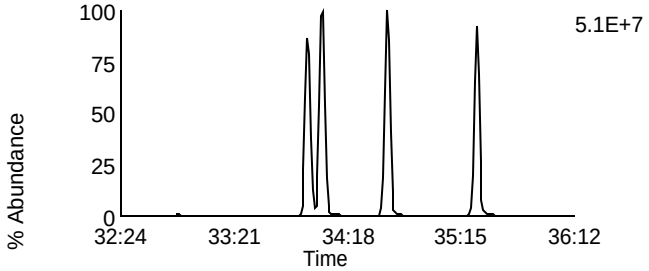
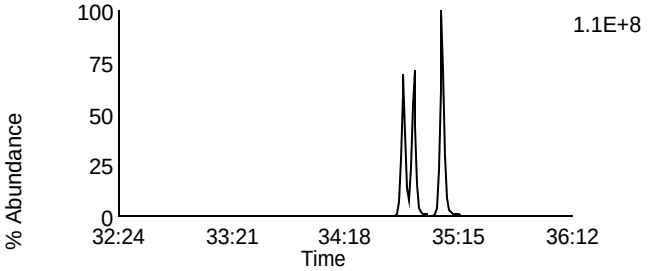


Data File: U140328B_12 G3 C9 - 401.8559
BLANK BLANK-39803- BAL



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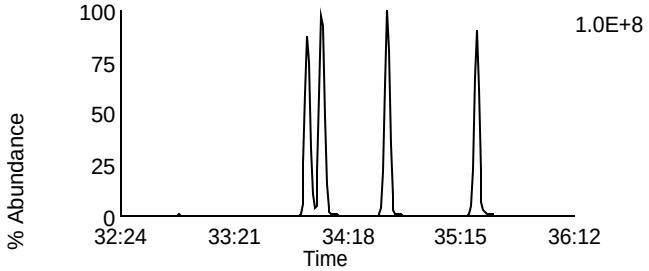

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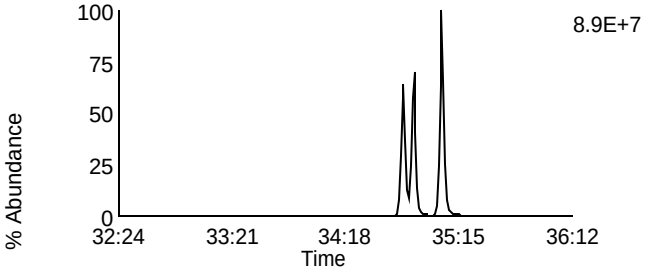

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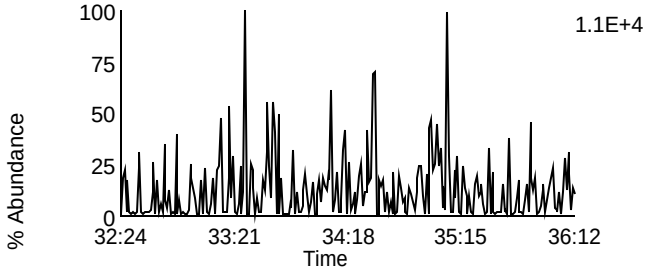
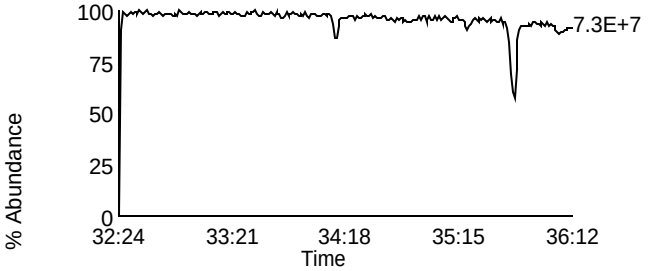


Data File: U140328B_12 G3 C3 - 380.976
BLANK BLANK-39803- BAL



Homologue Group: Heptas

Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G4 C3 - 407.7818
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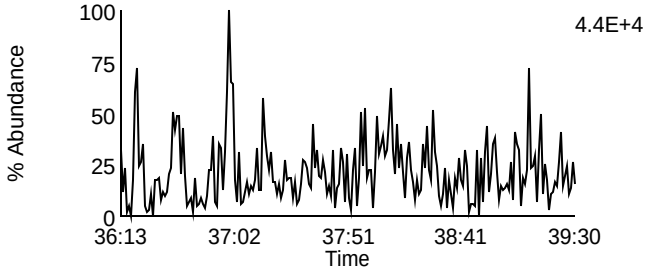

Data File: U140328B_12 G4 C8 - 423.7767
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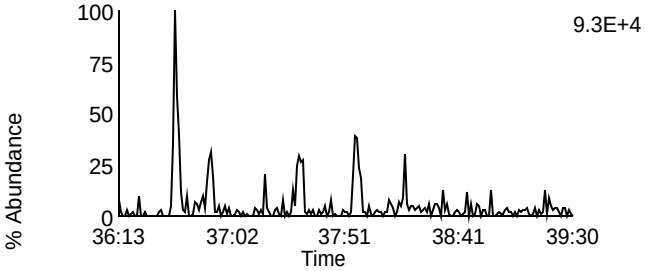
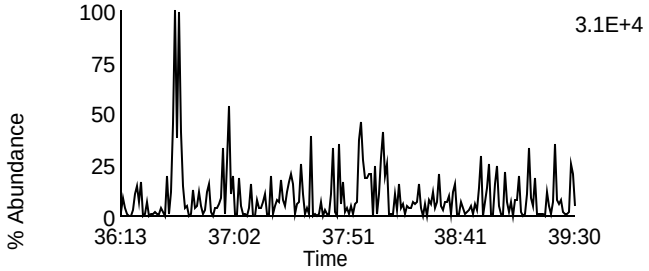


Data File: U140328B_12 G4 C4 - 409.7788
BLANK BLANK-39803- BAL



Data File: U140328B_12 G4 C9 - 425.7737
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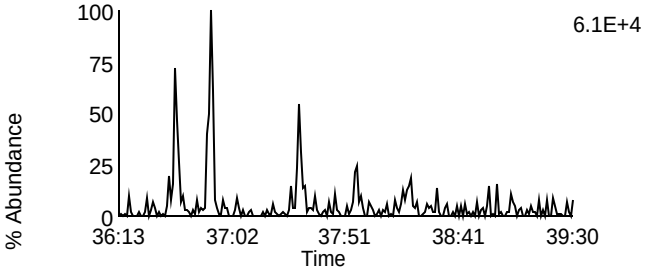

Data File: U140328B_12 G4 C6 - 417.825
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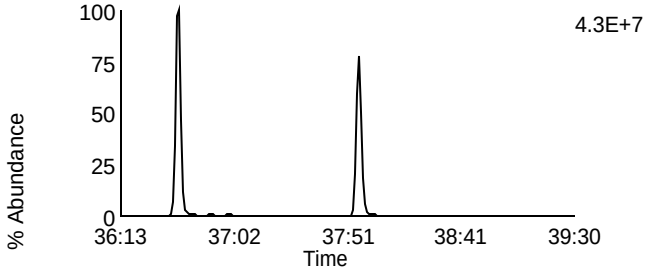

Data File: U140328B_12 G4 C11 - 435.8169
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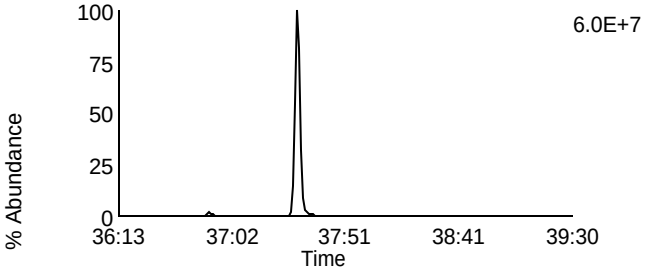

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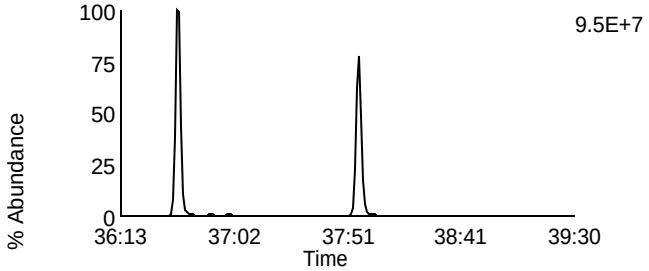
BLANK BLANK-39803- BAL



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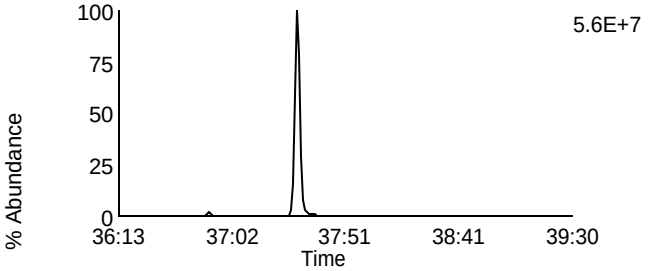

Data File: U140328B_12 G4 C13 - 479.7165
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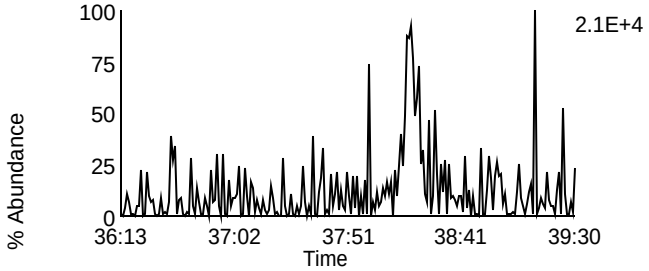

Data File: U140328B_12 G4 C1 - 380.976
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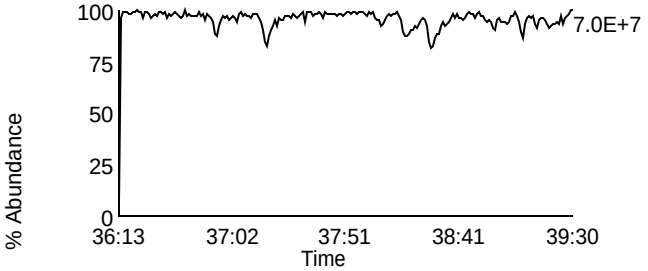

Homologue Group: Octas

Data File Name: U140328B_12
Date Acquired: 3/29/2014
Sample Description: BLANK BLANK-39803- BAL

Lab Sample ID: BLANK-39803
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U140328B_12 G5 C4 - 441.7428
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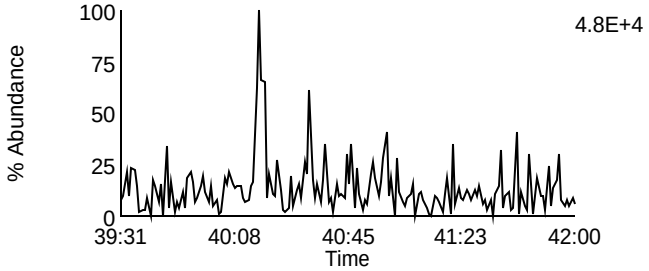
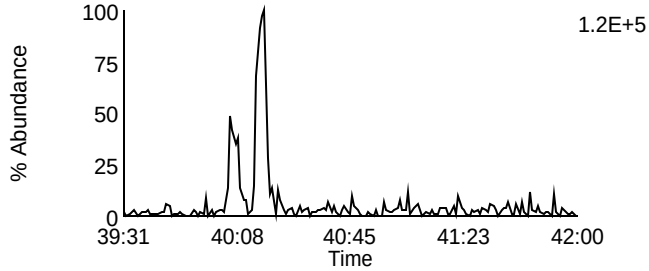


Data File: U140328B_12 G5 C8 - 457.7377
BLANK BLANK-39803- BAL



Data File: U140328B_12 G5 C5 - 443.7398
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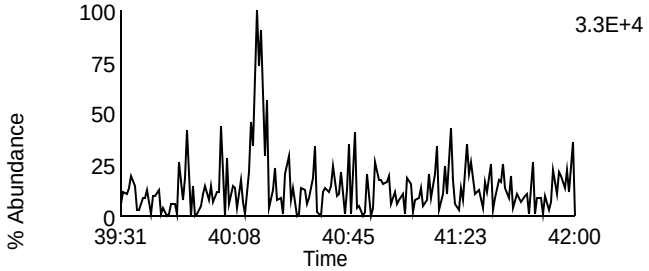

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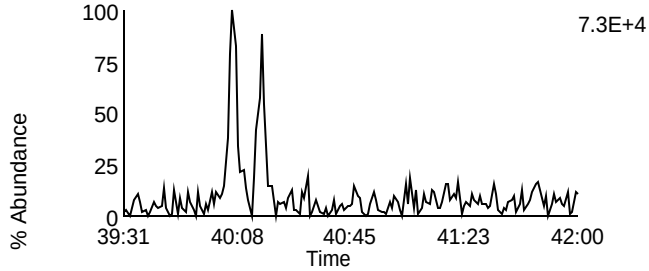

Data File: U140328B_12 G5 C11 - 469.7779
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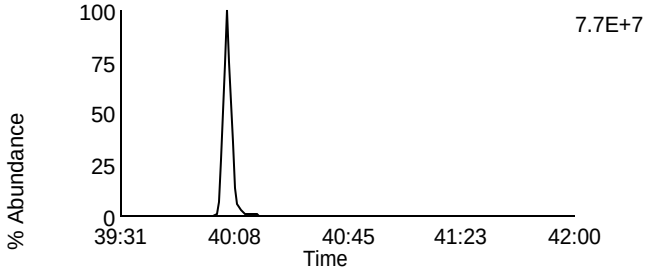

Data File: U140328B_12 G5 C11 - 469.7779
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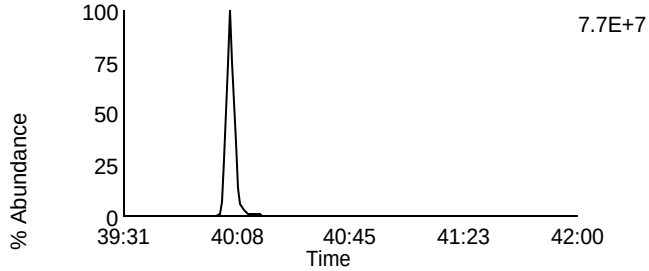

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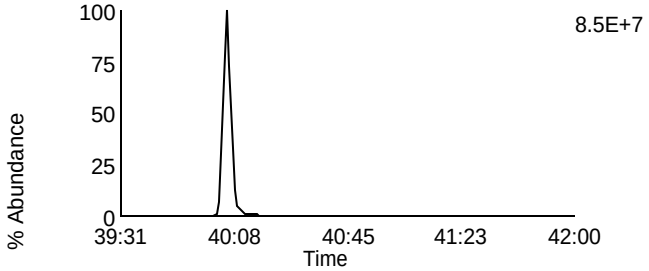

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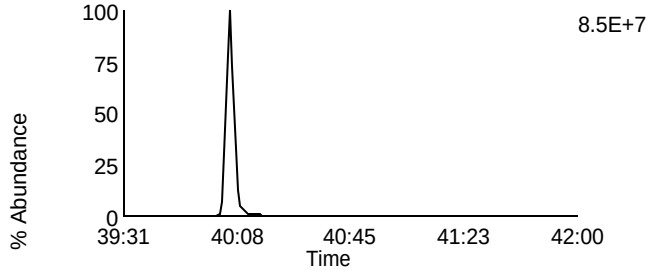

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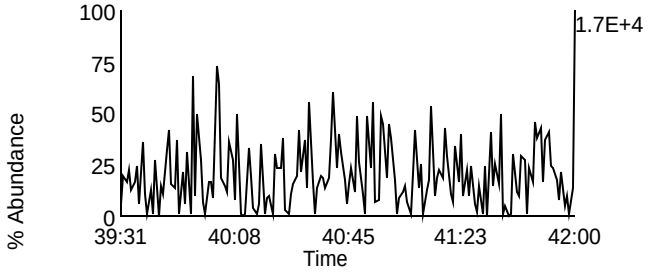
BLANK BLANK-39803- BAL



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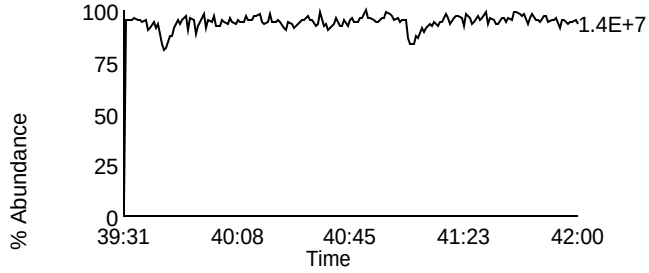
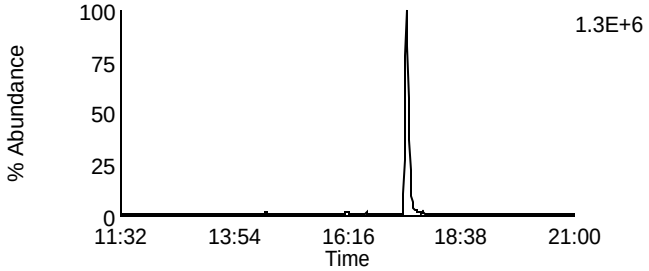


Homologue Group: Tetras

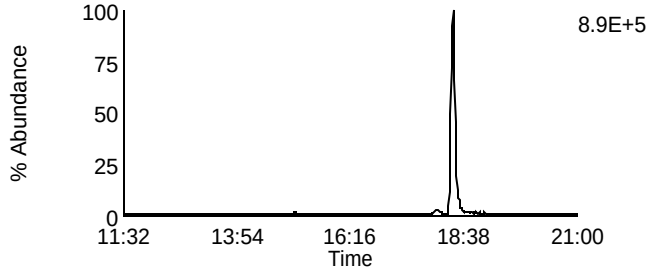
Data File Name: P140321B_06
Date Acquired: 3/21/2014
Sample Description: LCS LCS-39711 - BAL

Lab Sample ID: LCS-39711
Client Sample ID: DLCSVB
Instrument: 10MSHR09 (P)

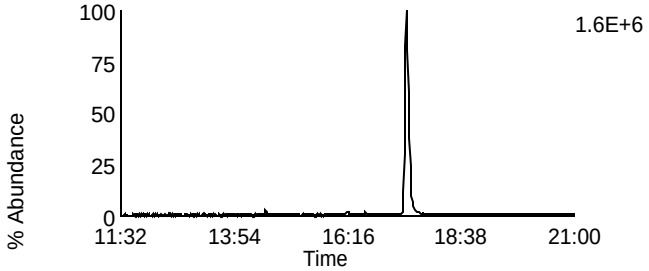
Data File: P140321B_06 G1 C1 - 303.9016
LCS LCS-39711 - BAL



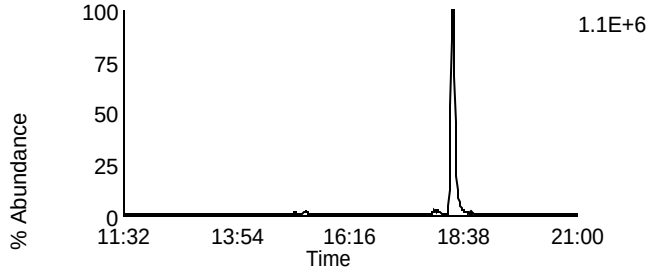
Data File: P140321B_06 G1 C7 - 319.8965
LCS LCS-39711 - BAL



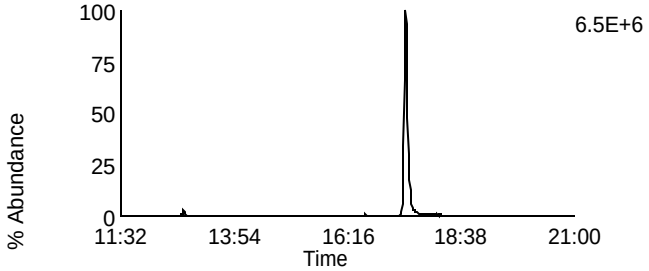
Data File: P140321B_06 G1 C2 - 305.8987
LCS LCS-39711 - BAL



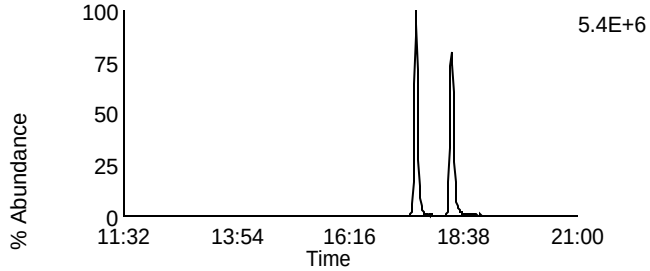
Data File: P140321B_06 G1 C8 - 321.8936
LCS LCS-39711 - BAL



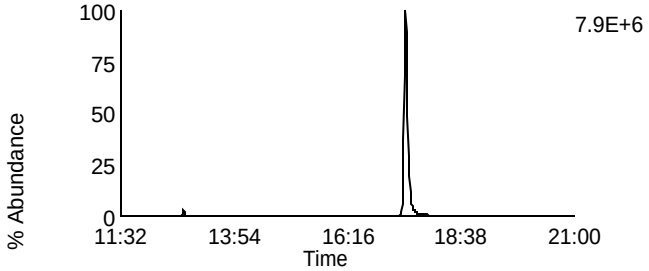
Data File: P140321B_06 G1 C3 - 315.9418
LCS LCS-39711 - BAL



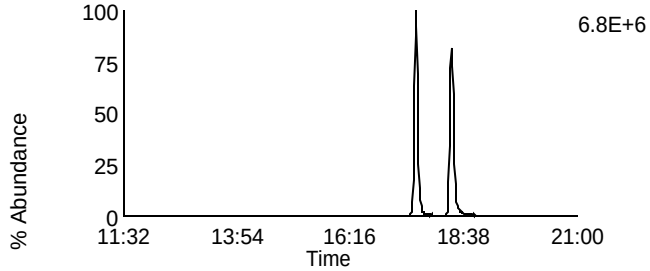
Data File: P140321B_06 G1 C10 - 331.9367
LCS LCS-39711 - BAL



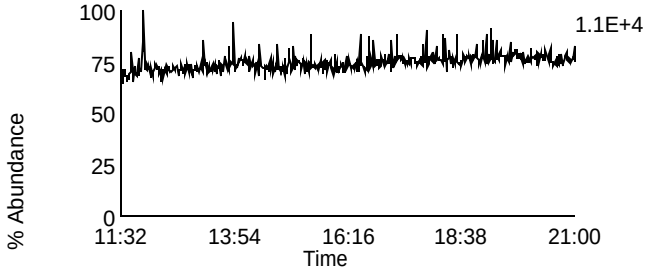
Data File: P140321B_06 G1 C4 - 317.9389
LCS LCS-39711 - BAL



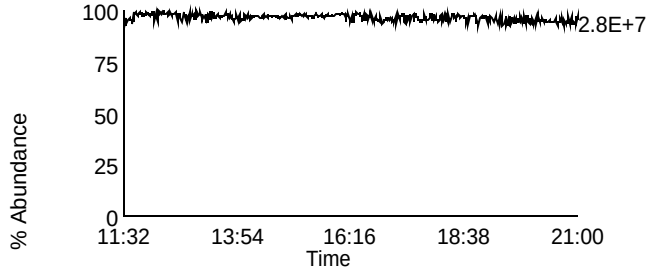
Data File: P140321B_06 G1 C11 - 333.9338
LCS LCS-39711 - BAL



Data File: P140321B_06 G1 C14 - 375.8364
LCS LCS-39711 - BAL



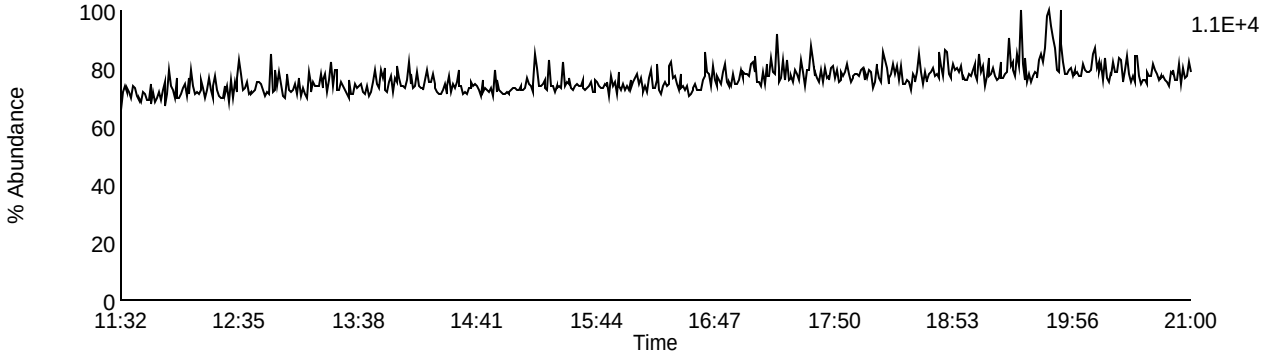
Data File: P140321B_06 G1 C5 - 318.9792
LCS LCS-39711 - BAL



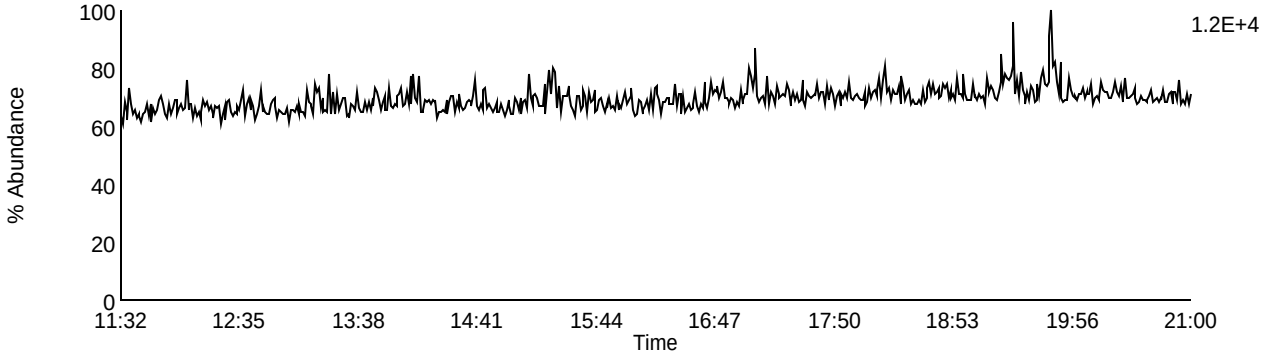
Homologue Group: Penta & Cleanup

Data File Name: P140321B_06	Lab Sample ID: LCS-39711
Date Acquired: 3/21/2014	Client Sample ID: DLCSVB
Sample Description: LCS LCS-39711 - BAL	Instrument: 10MSHR09 (P)

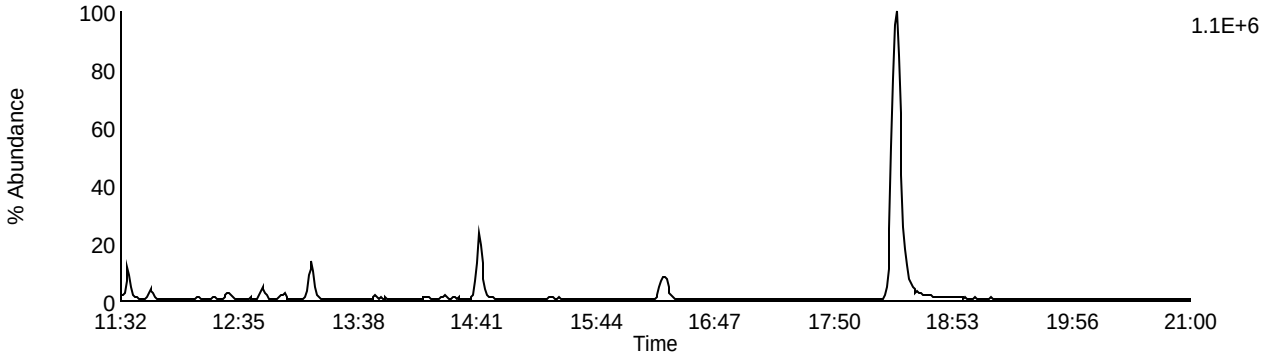
Data File: P140321B_06 G1 C12 - 339.8597
LCS LCS-39711 - BAL



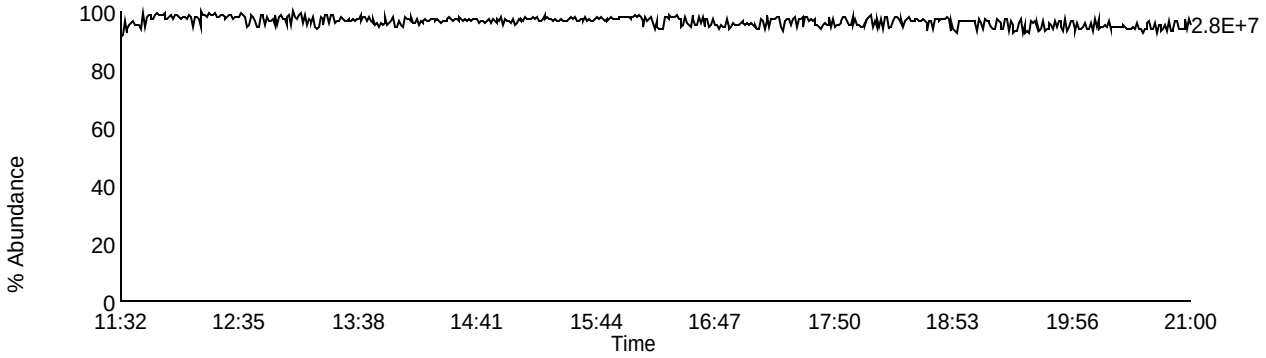
Data File: P140321B_06 G1 C13 - 341.8567
LCS LCS-39711 - BAL



Data File: P140321B_06 G1 C9 - 327.8847
LCS LCS-39711 - BAL



Data File: P140321B_06 G1 C5 - 318.9792
LCS LCS-39711 - BAL

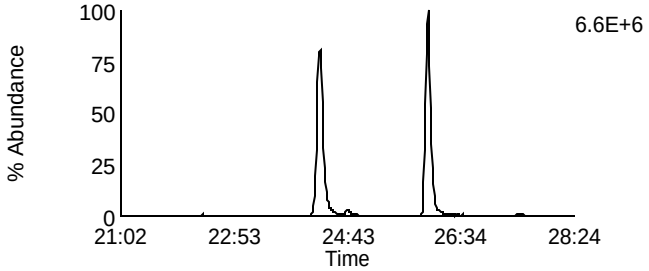


Homologue Group: Pentas

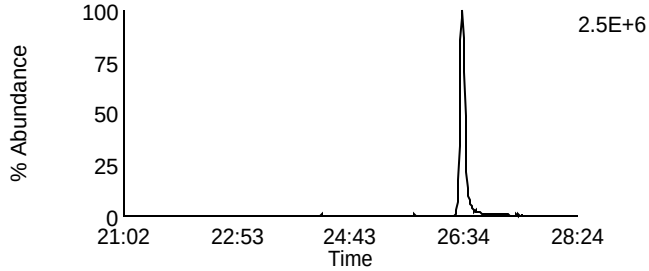
Data File Name: P140321B_06
Date Acquired: 3/21/2014
Sample Description: LCS LCS-39711 - BAL

Lab Sample ID: LCS-39711
Client Sample ID: DLCSVB
Instrument: 10MSHR09 (P)

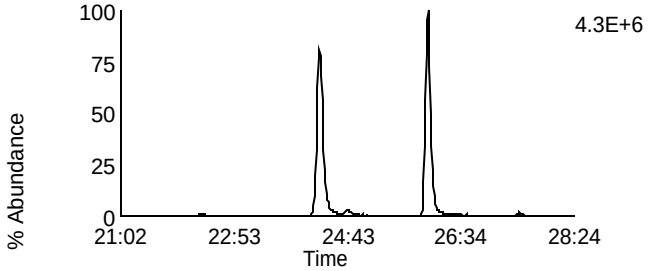
Data File: P140321B_06 G2 C1 - 339.8597
LCS LCS-39711 - BAL



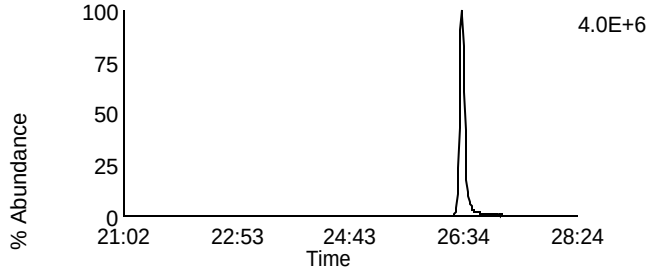
Data File: P140321B_06 G2 C4 - 353.8576
LCS LCS-39711 - BAL



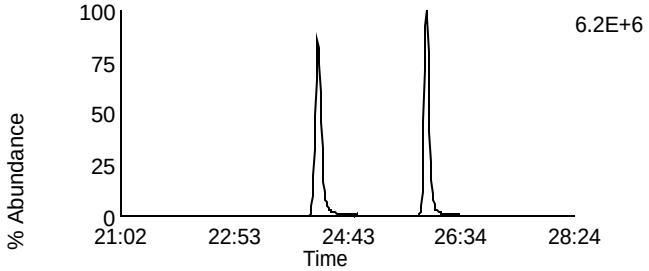
Data File: P140321B_06 G2 C2 - 341.8567
LCS LCS-39711 - BAL



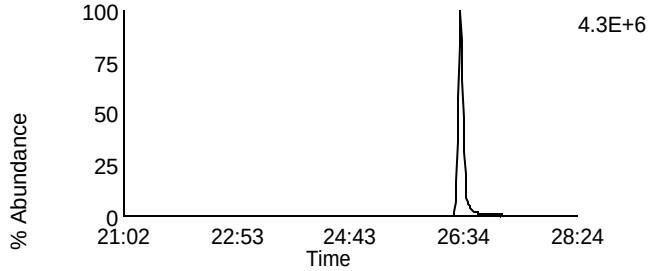
Data File: P140321B_06 G2 C8 - 355.8546
LCS LCS-39711 - BAL



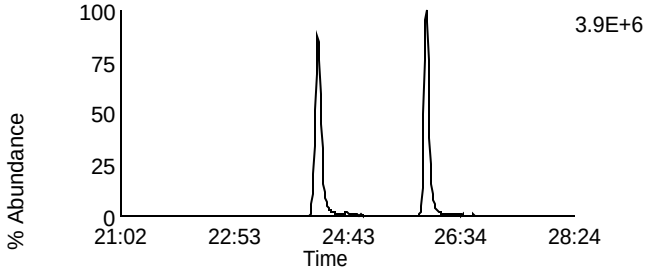
Data File: P140321B_06 G2 C3 - 351.8999
LCS LCS-39711 - BAL



Data File: P140321B_06 G2 C10 - 367.8948
LCS LCS-39711 - BAL



Data File: P140321B_06 G2 C5 - 353.8969
LCS LCS-39711 - BAL



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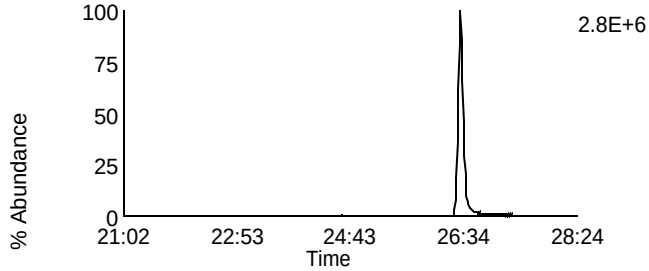
LCS LCS-39711 - BAL



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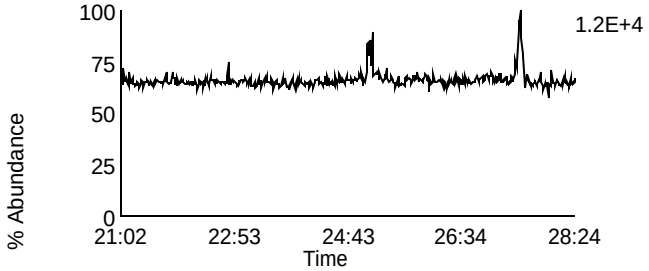
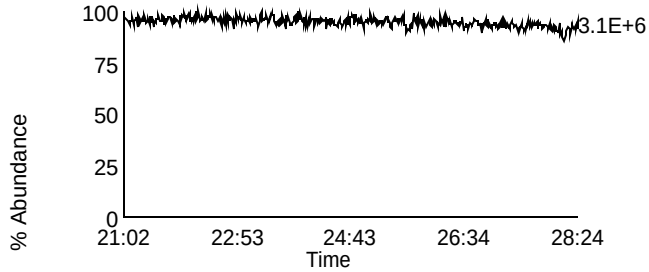
LCS LCS-39711 - BAL



Data File: P140321B_06 G2 C6 - 354.9792
LCS LCS-39711 - BAL

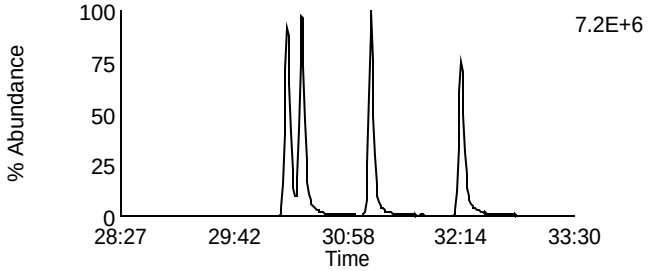


Homologue Group: Hexas

Data File Name: P140321B_06
Date Acquired: 3/21/2014
Sample Description: LCS LCS-39711 - BAL

Lab Sample ID: LCS-39711
Client Sample ID: DLCSVB
Instrument: 10MSHR09 (P)

Data File: P140321B_06 G3 C1 - 373.8207
LCS LCS-39711 - BAL



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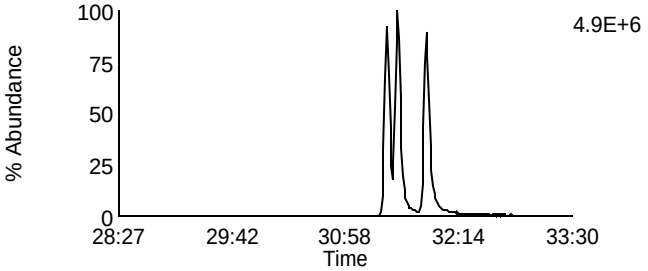
LCS LCS-39711 - BAL



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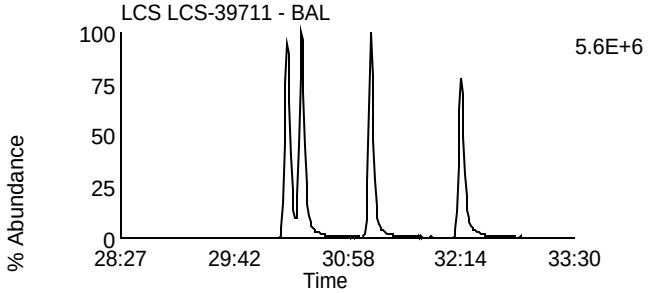
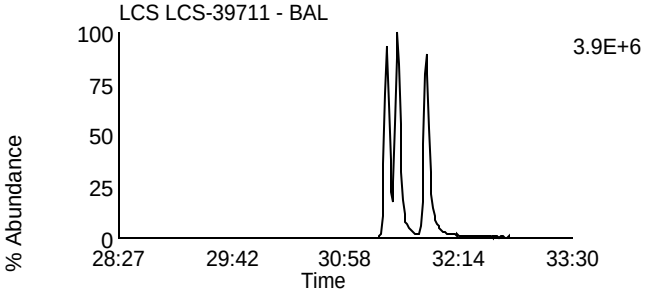
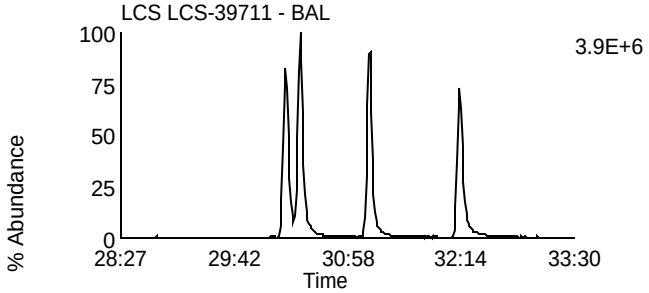
LCS LCS-39711 - BAL



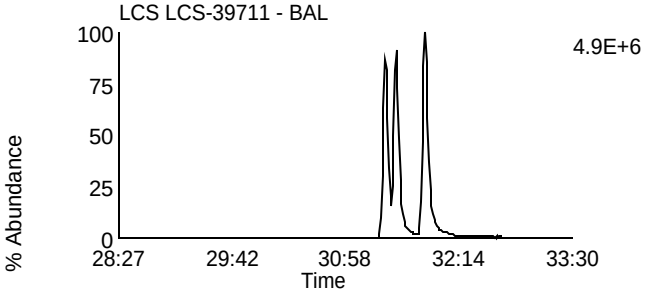
Data File: P140321B_06 G3 C8 - 391.8127
LCS LCS-39711 - BAL



Data File: P140321B_06 G3 C5 - 383.8639
LCS LCS-39711 - BAL



Data File: P140321B_06 G3 C9 - 401.8559
LCS LCS-39711 - BAL



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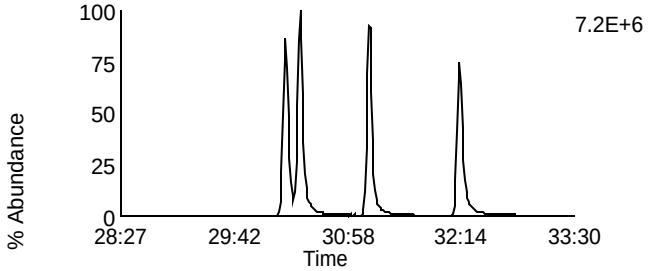
LCS LCS-39711 - BAL



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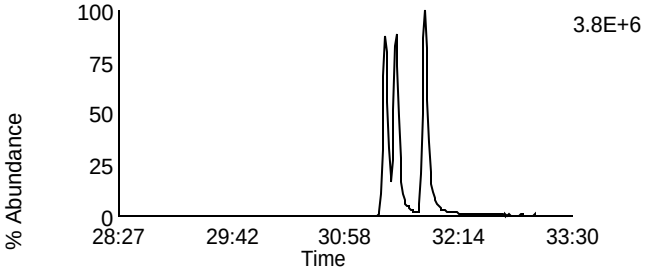
LCS LCS-39711 - BAL



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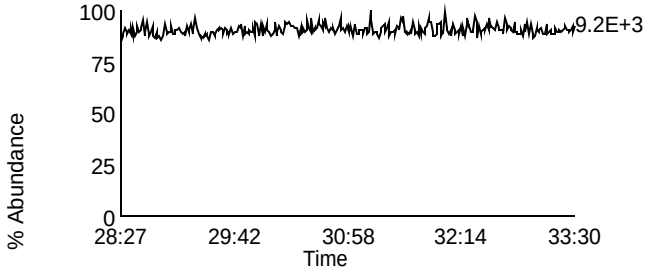
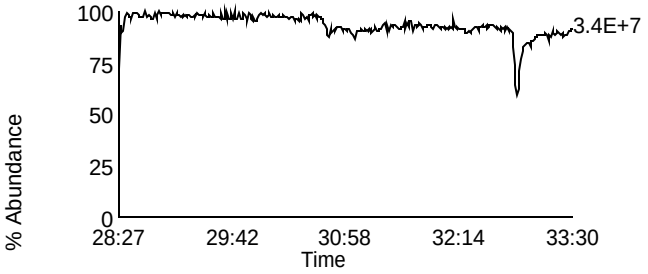
LCS LCS-39711 - BAL



Data File: P140321B_06 G3 C3 - 380.976
LCS LCS-39711 - BAL

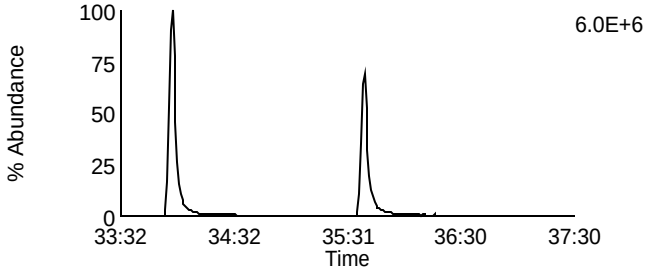


Homologue Group: Heptas

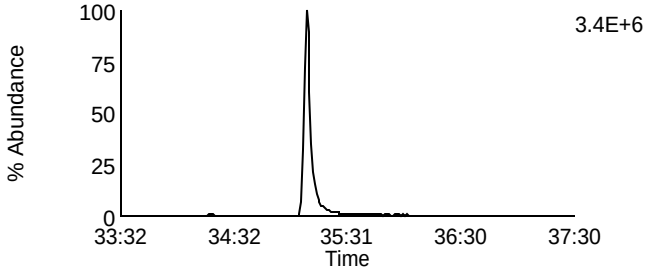
Data File Name: P140321B_06
Date Acquired: 3/21/2014
Sample Description: LCS LCS-39711 - BAL

Lab Sample ID: LCS-39711
Client Sample ID: DLCSVB
Instrument: 10MSHR09 (P)

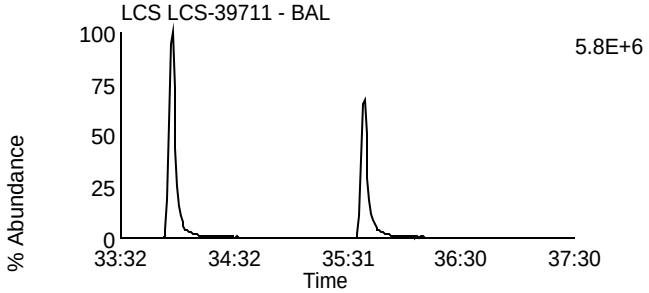
Data File: P140321B_06 G4 C3 - 407.7818
LCS LCS-39711 - BAL



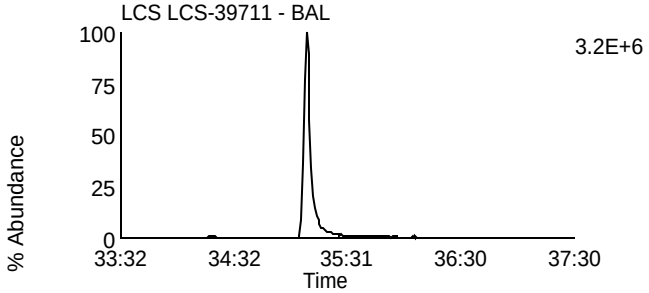
Data File: P140321B_06 G4 C8 - 423.7767
LCS LCS-39711 - BAL



Data File: P140321B_06 G4 C4 - 409.7788
LCS LCS-39711 - BAL



Data File: P140321B_06 G4 C9 - 425.7737
LCS LCS-39711 - BAL



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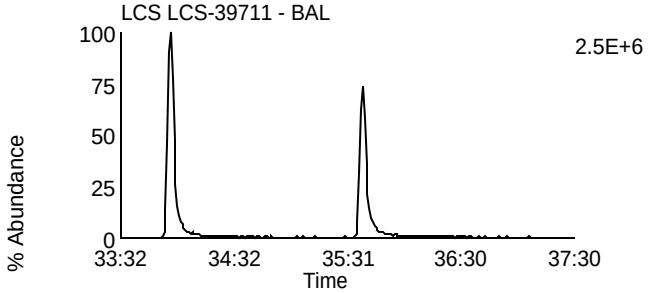
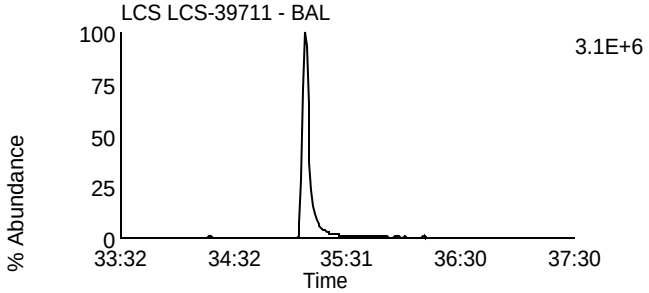
LCS LCS-39711 - BAL



Data File: P140321B_06 G4 C11 - 435.8169
LCS LCS-39711 - BAL



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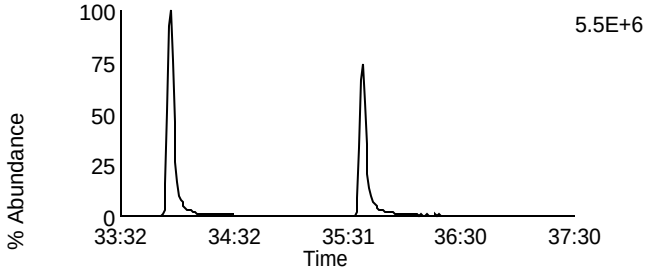
LCS LCS-39711 - BAL



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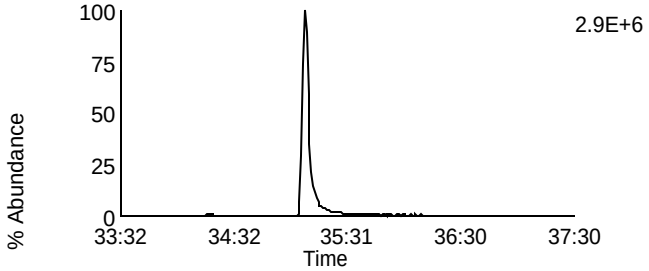
LCS LCS-39711 - BAL



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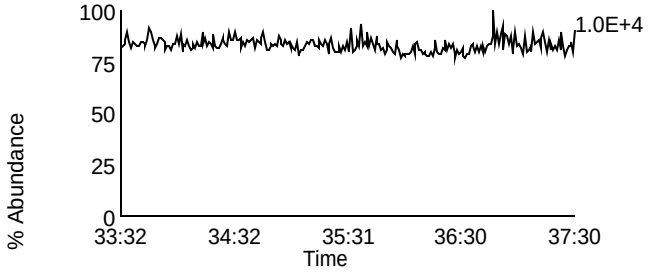
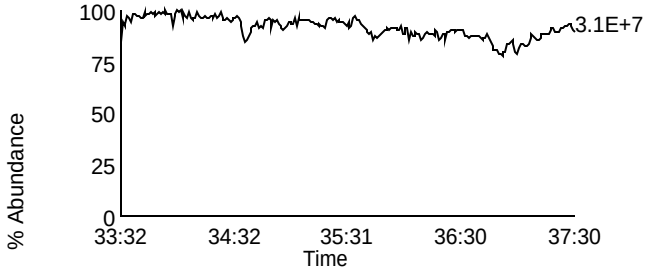
LCS LCS-39711 - BAL



Data File: P140321B_06 G4 C1 - 380.976
LCS LCS-39711 - BAL

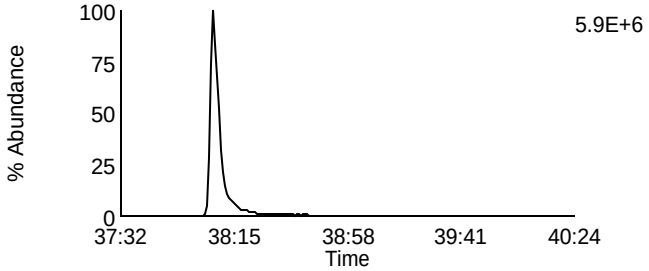


Homologue Group: Octas

Data File Name: P140321B_06
Date Acquired: 3/21/2014
Sample Description: LCS LCS-39711 - BAL

Lab Sample ID: LCS-39711
Client Sample ID: DLCSVB
Instrument: 10MSHR09 (P)

Data File: P140321B_06 G5 C4 - 441.7428
LCS LCS-39711 - BAL



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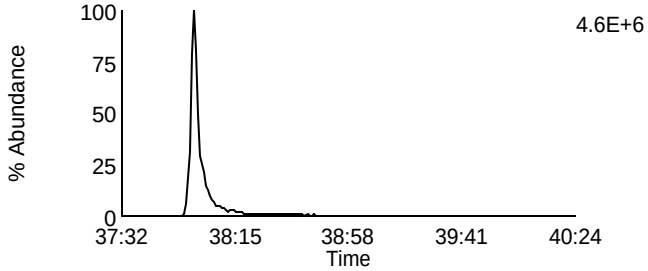
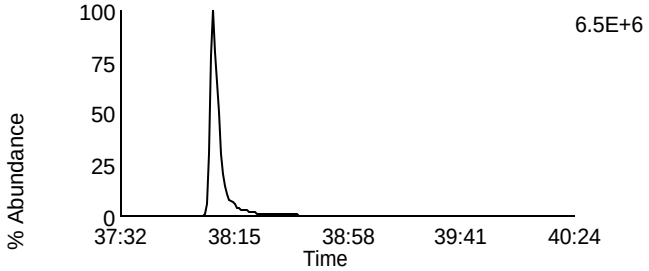
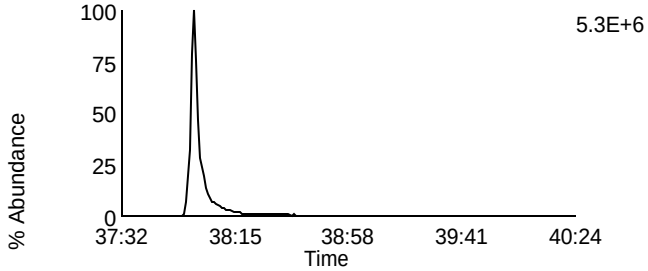
LCS LCS-39711 - BAL



Data File: P140321B_06 G5 C5 - 443.7398
LCS LCS-39711 - BAL



Data File: P140321B_06 G5 C9 - 459.7347
LCS LCS-39711 - BAL



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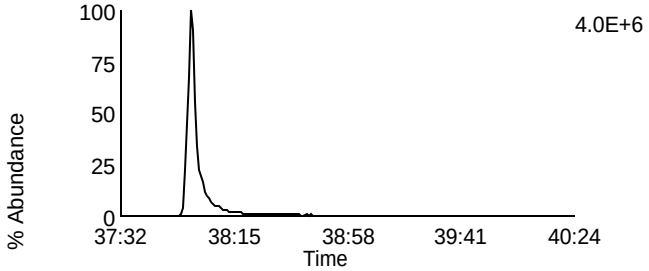
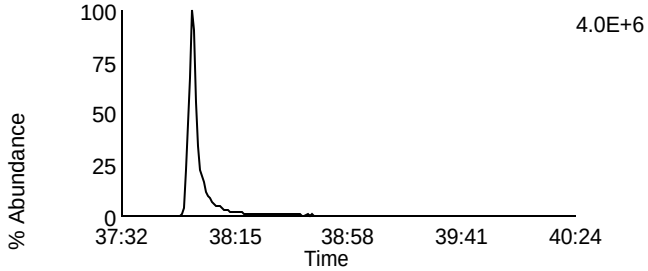
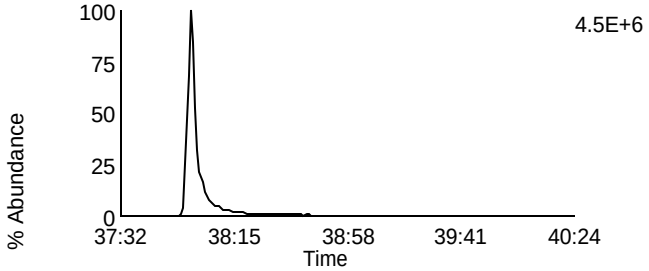
LCS LCS-39711 - BAL



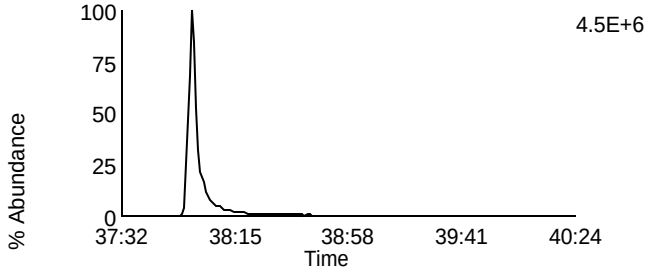
Data File: P140321B_06 G5 C11 - 469.7779
LCS LCS-39711 - BAL



Data File: P140321B_06 G5 C12 - 471.7749
LCS LCS-39711 - BAL



Data File: P140321B_06 G5 C12 - 471.7749
LCS LCS-39711 - BAL



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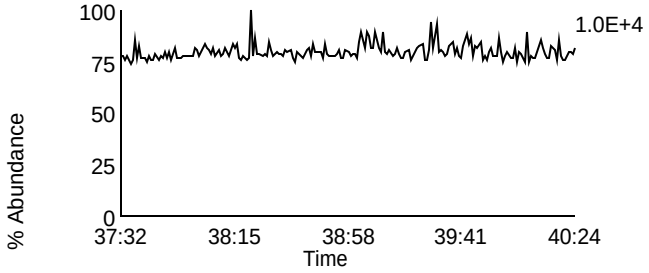
LCS LCS-39711 - BAL



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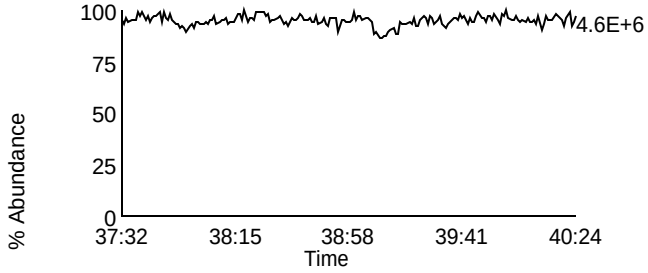
LCS LCS-39711 - BAL

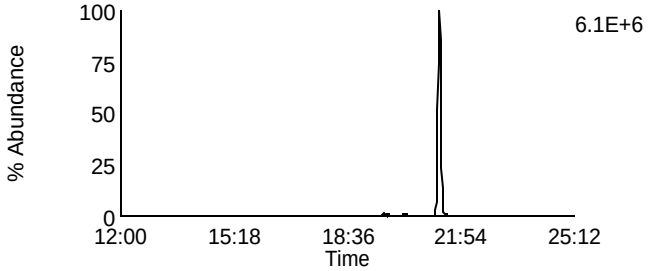


Homologue Group: Tetras

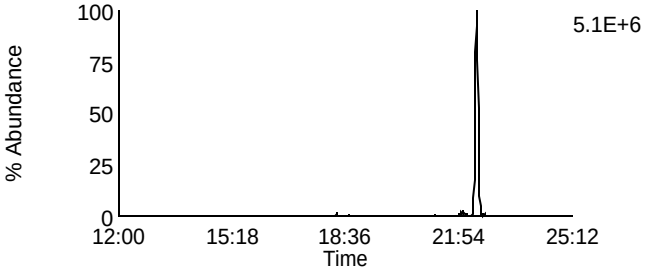
Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

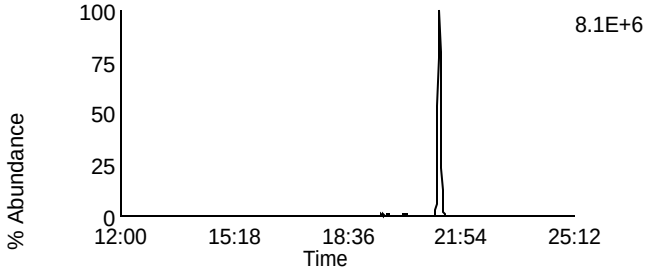
Data File: U140328B_05 G1 C1 - 303.9016
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C7 - 319.8965
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C2 - 305.8987
LCS LCS-39804 - BAL



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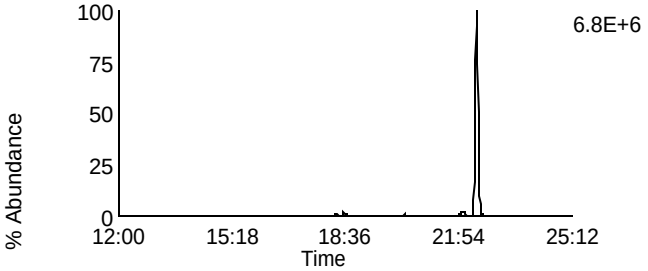
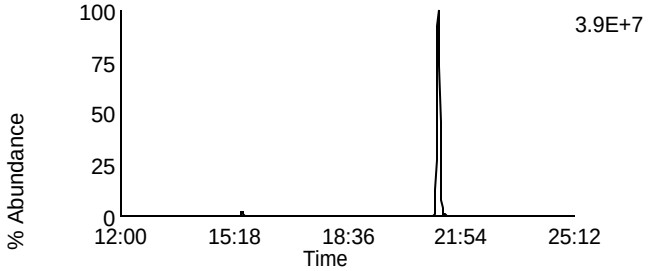
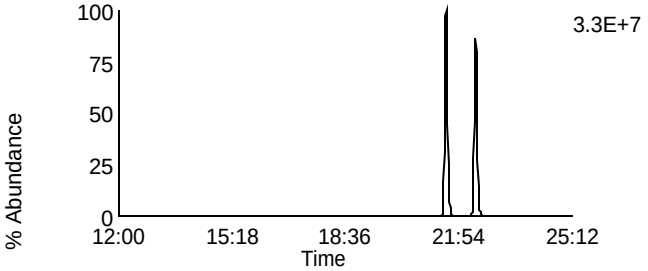
LCS LCS-39804 - BAL



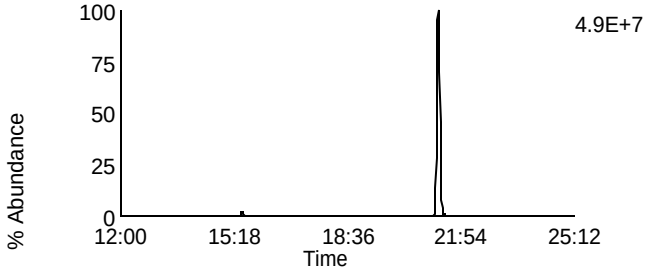
Data File: U140328B_05 G1 C3 - 315.9418
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C10 - 331.9367
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C4 - 317.9389
LCS LCS-39804 - BAL



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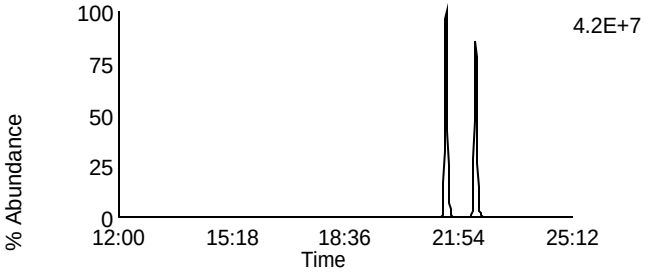
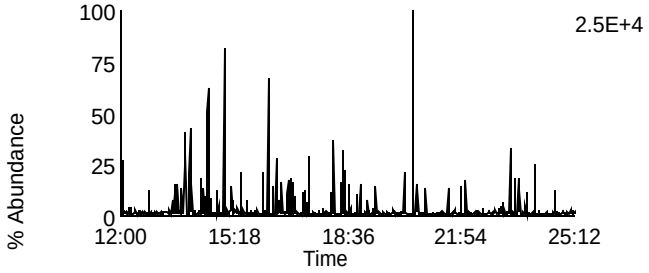
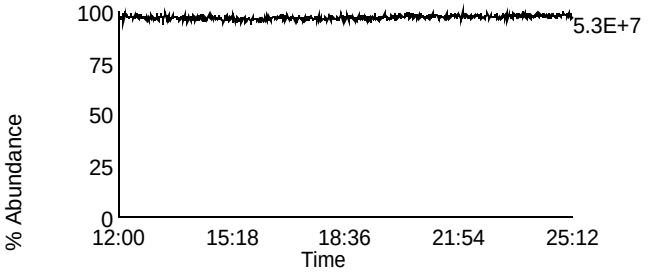
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C14 - 375.8364
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C5 - 318.9792
LCS LCS-39804 - BAL

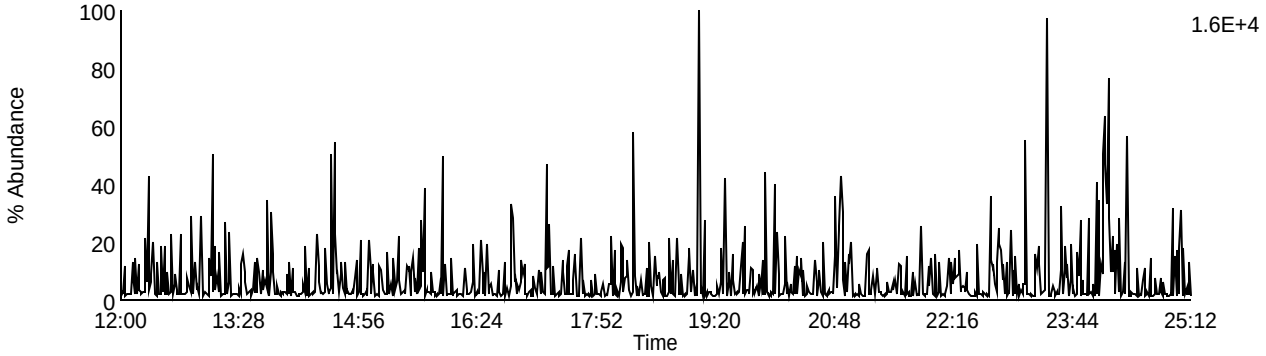


Homologue Group: Penta & Cleanup

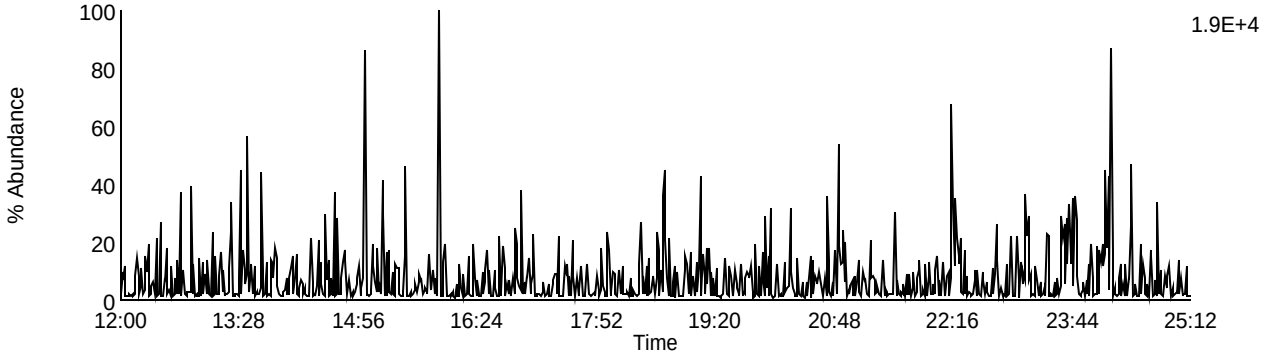
Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

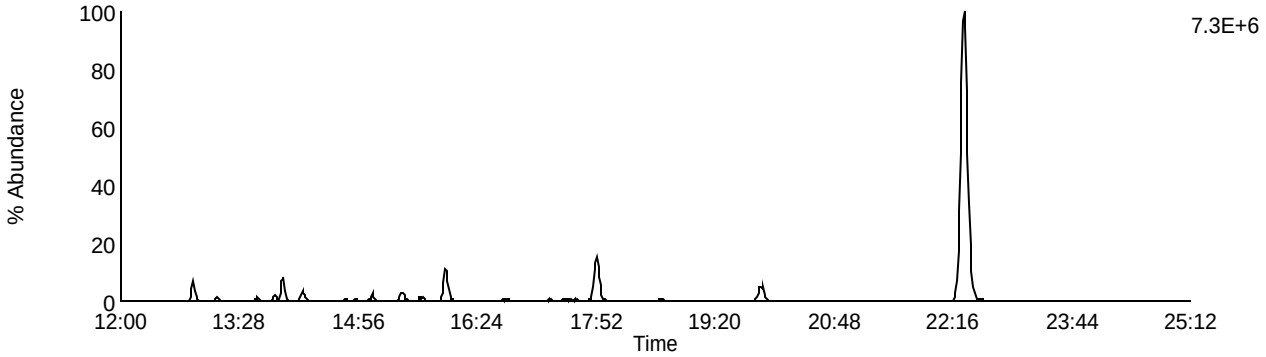
Data File: U140328B_05 G1 C12 - 339.8597
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C13 - 341.8567
LCS LCS-39804 - BAL



Data File: U140328B_05 G1 C9 - 327.8847
LCS LCS-39804 - BAL



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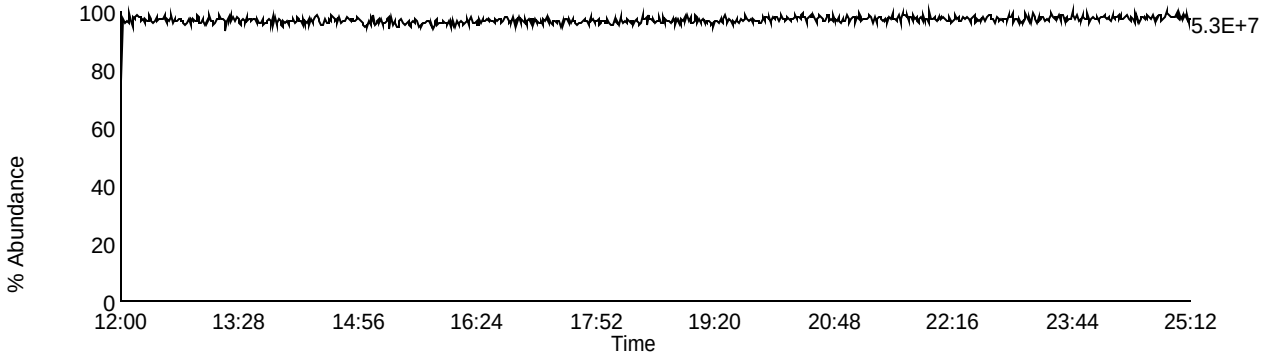
LCS LCS-39804 - BAL

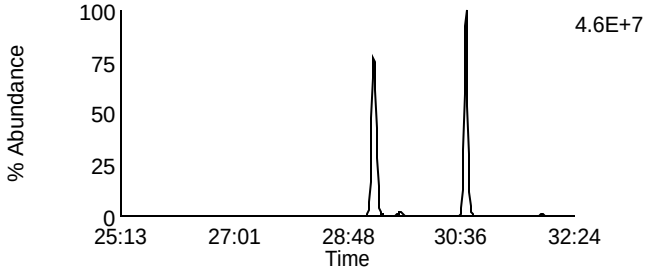


Homologue Group: Pentas

Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

Data File: U140328B_05 G2 C1 - 339.8597
LCS LCS-39804 - BAL



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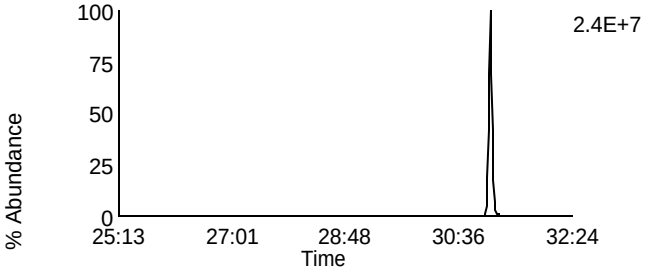
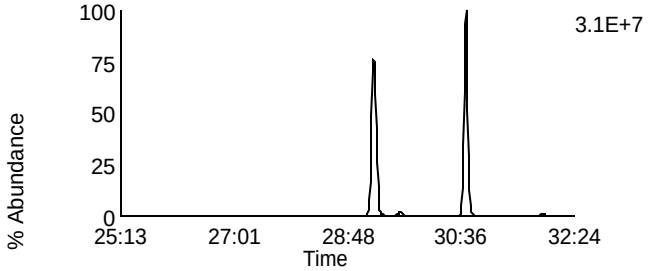
LCS LCS-39804 - BAL



Data File: U140328B_05 G2 C2 - 341.8567
LCS LCS-39804 - BAL



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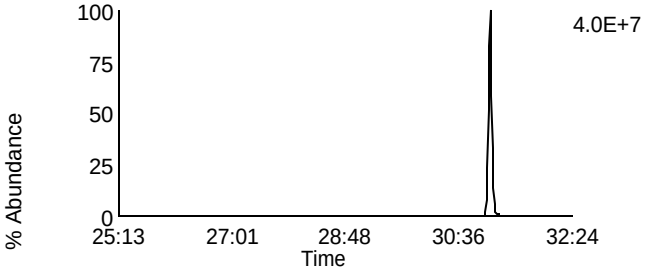
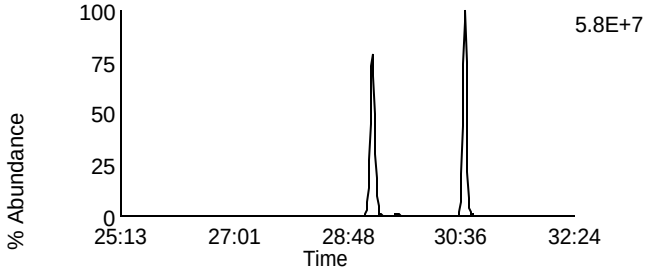
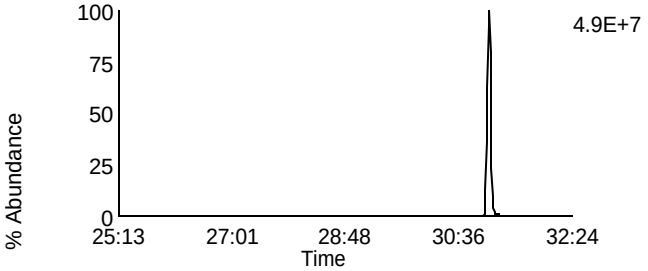
LCS LCS-39804 - BAL



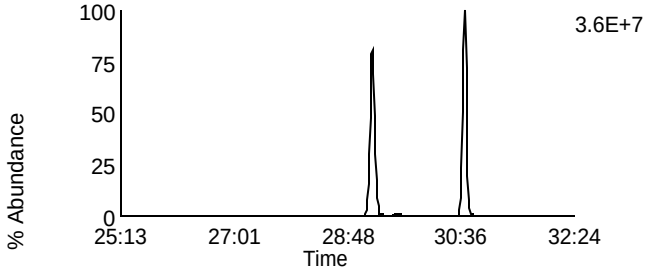
Data File: U140328B_05 G2 C3 - 351.8999
LCS LCS-39804 - BAL



Data File: U140328B_05 G2 C10 - 367.8948
LCS LCS-39804 - BAL



Data File: U140328B_05 G2 C5 - 353.8969
LCS LCS-39804 - BAL



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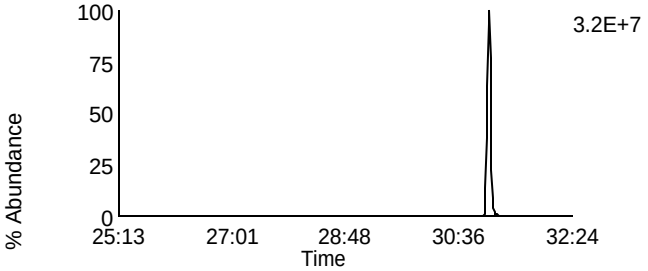
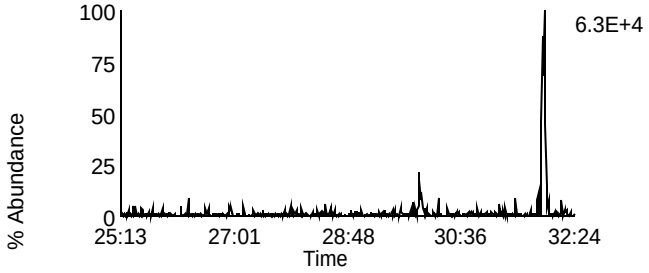
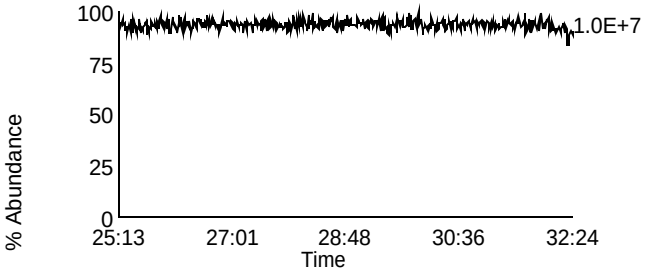
LCS LCS-39804 - BAL



Data File: U140328B_05 G2 C12 - 409.7974
LCS LCS-39804 - BAL



Data File: U140328B_05 G2 C6 - 354.9792
LCS LCS-39804 - BAL

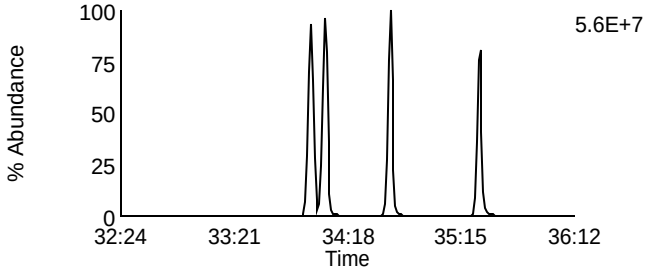


Homologue Group: Hexas

Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

Data File: U140328B_05 G3 C1 - 373.8207
LCS LCS-39804 - BAL



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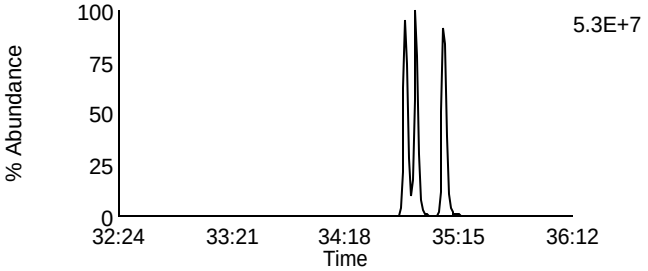
LCS LCS-39804 - BAL



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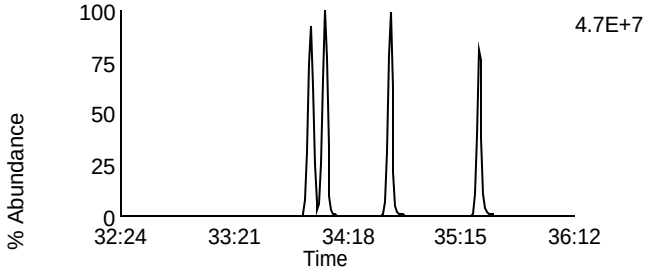
LCS LCS-39804 - BAL



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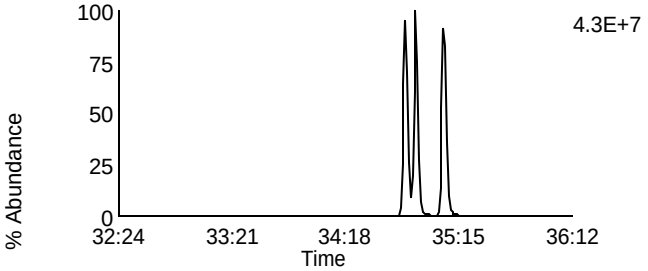
LCS LCS-39804 - BAL



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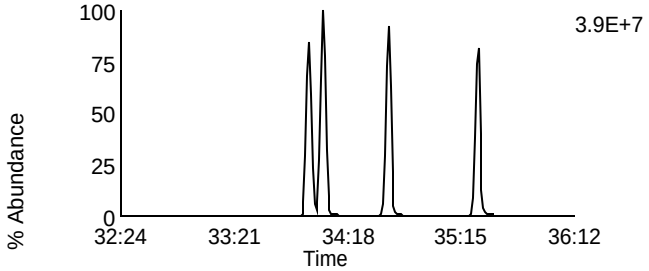
LCS LCS-39804 - BAL



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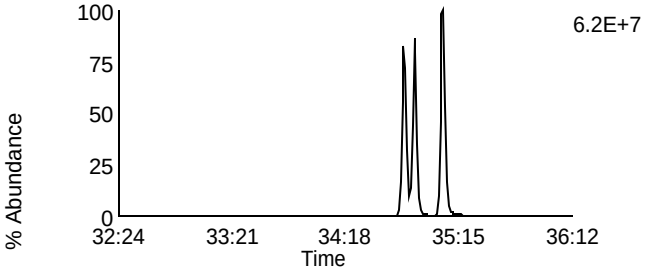
LCS LCS-39804 - BAL



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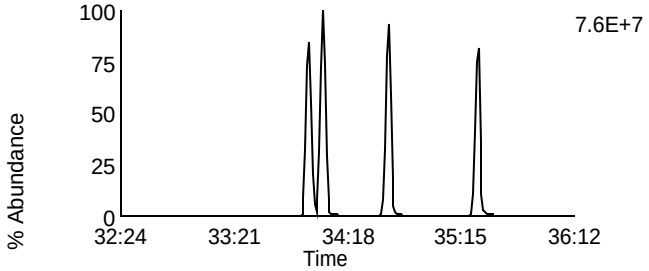
LCS LCS-39804 - BAL



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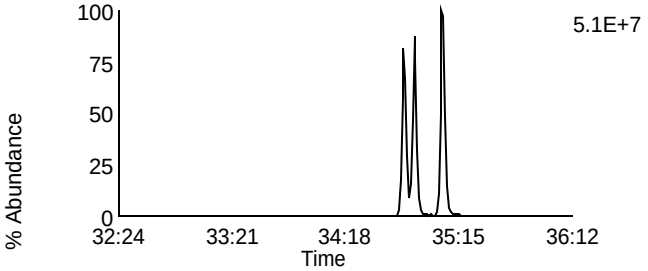
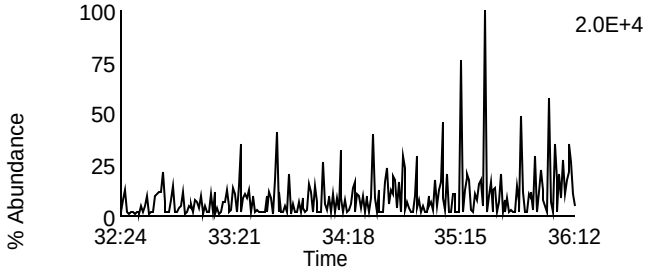
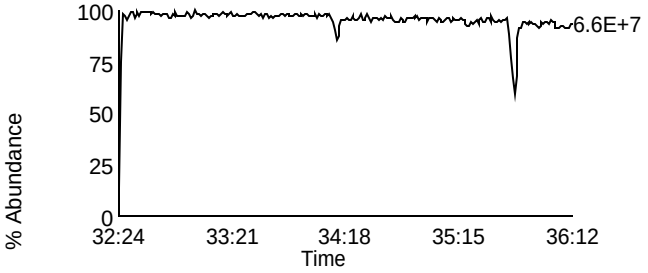
LCS LCS-39804 - BAL



Data File: U140328B_05 G3 C11 - 445.7555
LCS LCS-39804 - BAL



Data File: U140328B_05 G3 C3 - 380.976
LCS LCS-39804 - BAL

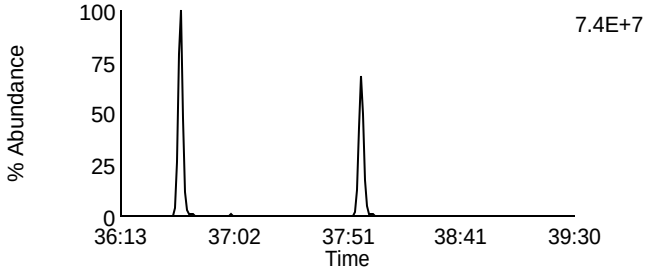


Homologue Group: Heptas

Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

Data File: U140328B_05 G4 C3 - 407.7818
LCS LCS-39804 - BAL



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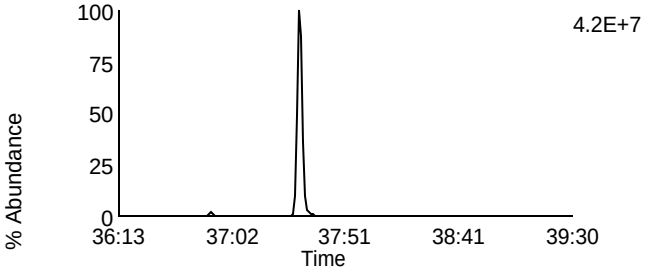
LCS LCS-39804 - BAL



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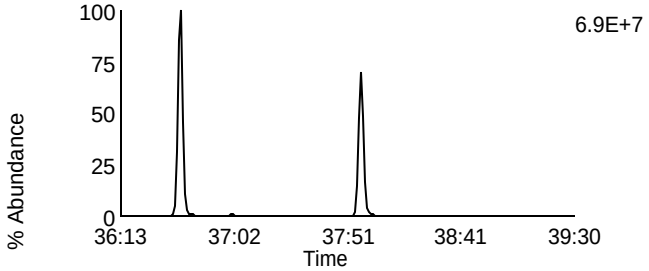
LCS LCS-39804 - BAL



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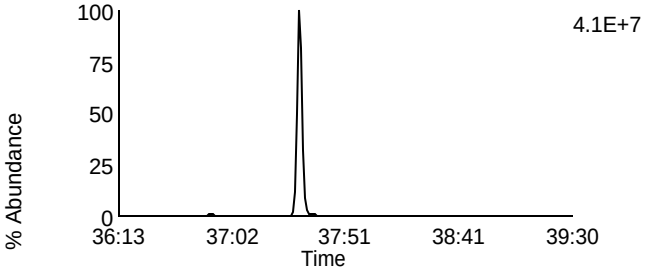
LCS LCS-39804 - BAL



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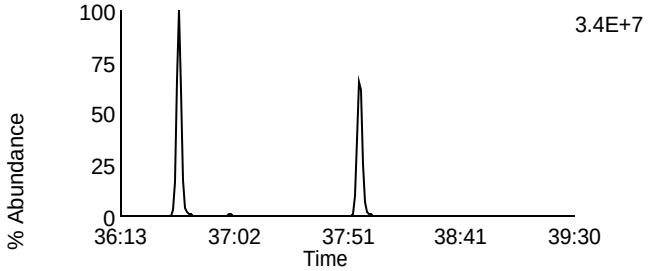
LCS LCS-39804 - BAL



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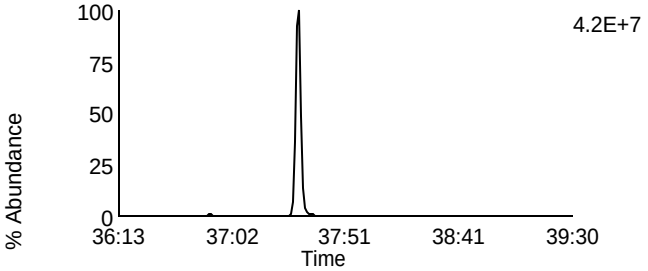
LCS LCS-39804 - BAL



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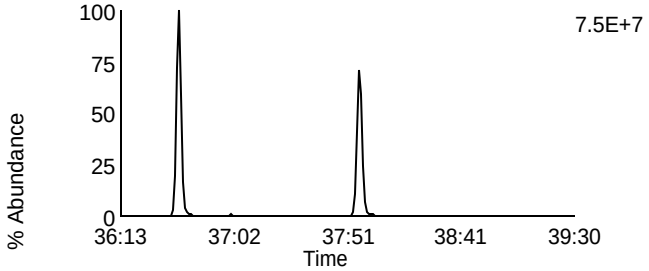
LCS LCS-39804 - BAL



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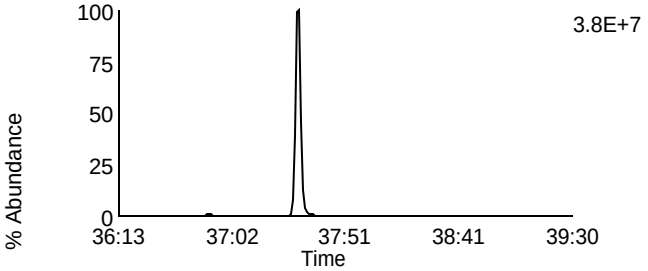
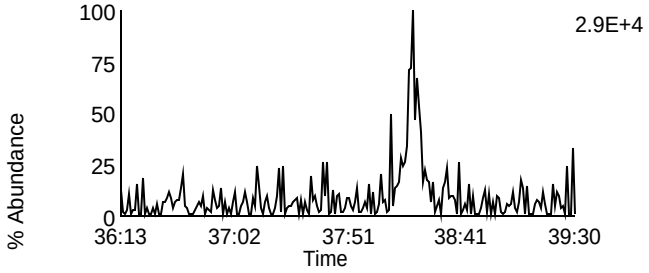
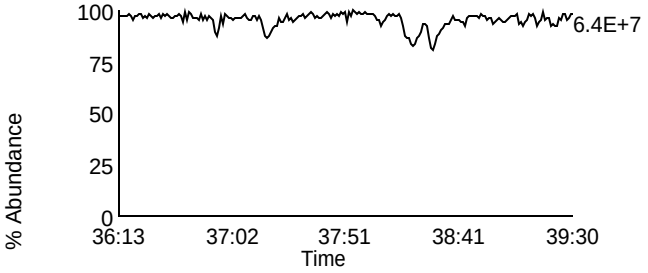
LCS LCS-39804 - BAL



Data File: U140328B_05 G4 C13 - 479.7165
LCS LCS-39804 - BAL



Data File: U140328B_05 G4 C1 - 380.976
LCS LCS-39804 - BAL

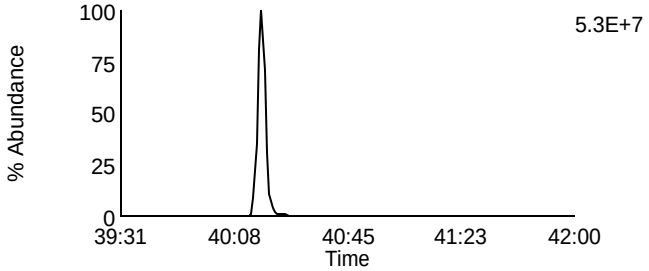


Homologue Group: Octas

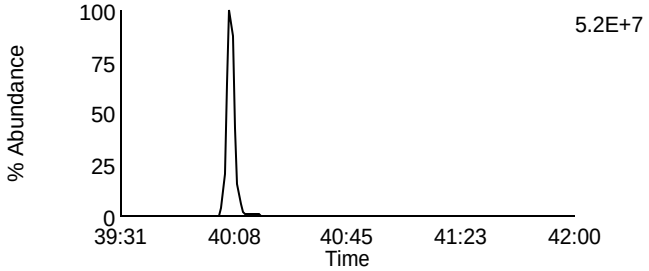
Data File Name: U140328B_05
Date Acquired: 3/28/2014
Sample Description: LCS LCS-39804 - BAL

Lab Sample ID: LCS-39804
Client Sample ID: DLCSWH
Instrument: 10MSHR06 (U)

Data File: U140328B_05 G5 C4 - 441.7428
LCS LCS-39804 - BAL



Data File: U140328B_05 G5 C8 - 457.7377
LCS LCS-39804 - BAL



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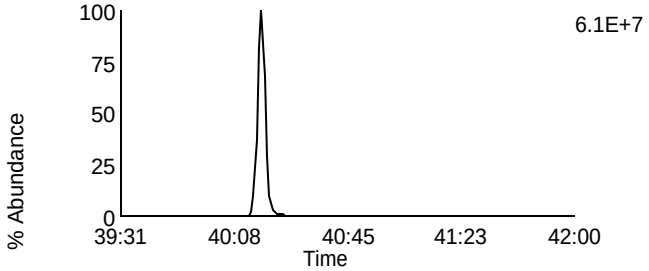
LCS LCS-39804 - BAL



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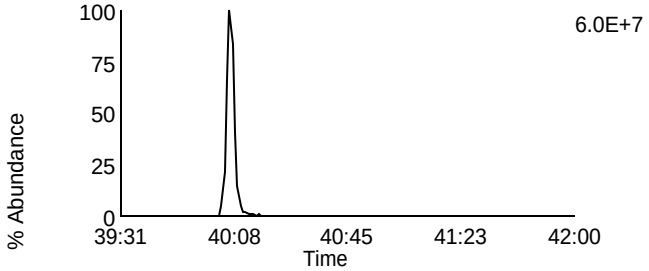
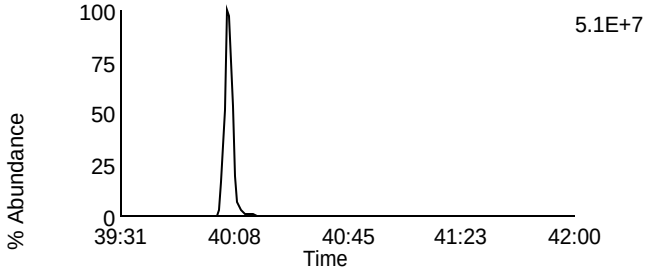
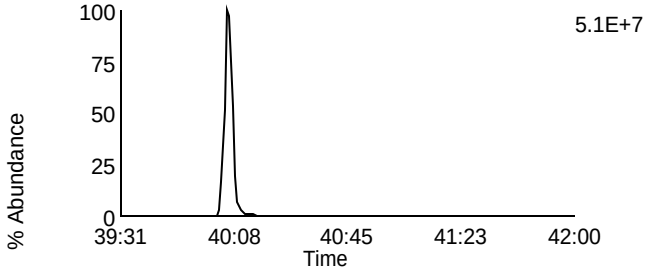
LCS LCS-39804 - BAL



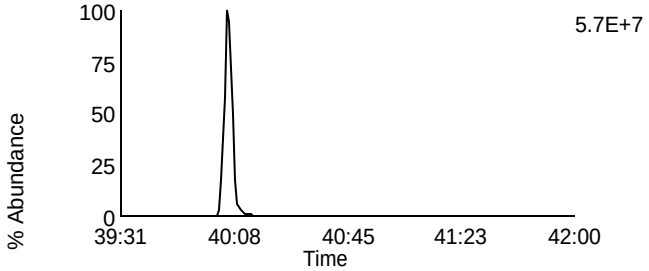
Data File: U140328B_05 G5 C11 - 469.7779
LCS LCS-39804 - BAL



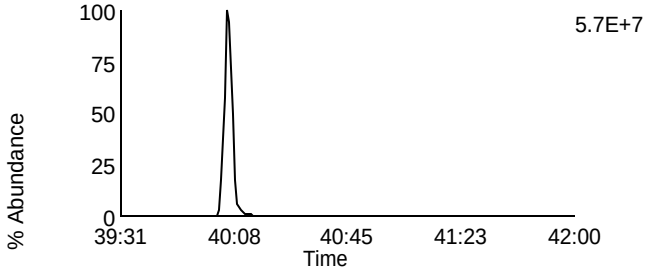
Data File: U140328B_05 G5 C11 - 469.7779
LCS LCS-39804 - BAL



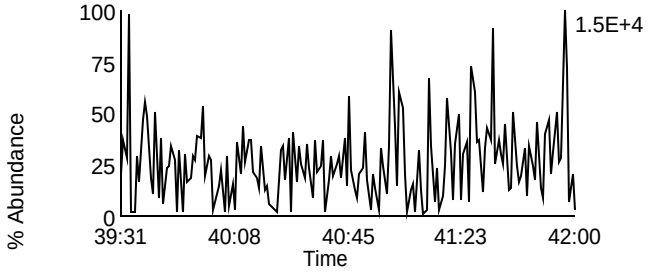
Data File: U140328B_05 G5 C12 - 471.7749
LCS LCS-39804 - BAL



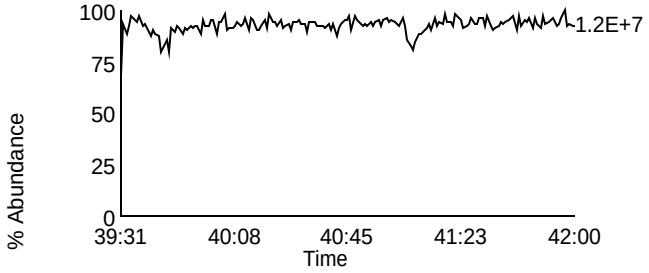
Data File: U140328B_05 G5 C12 - 471.7749
LCS LCS-39804 - BAL



Data File: U140328B_05 G5 C13 - 513.6775
LCS LCS-39804 - BAL



Data File: U140328B_05 G5 C2 - 430.9728
LCS LCS-39804 - BAL

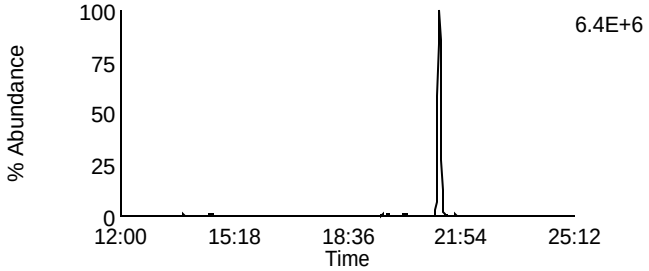


Homologue Group: Tetras

Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G1 C1 - 303.9016
LCS LCSD-39805 - BAL



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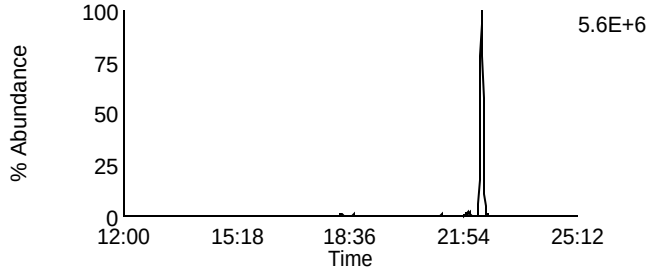
LCS LCSD-39805 - BAL



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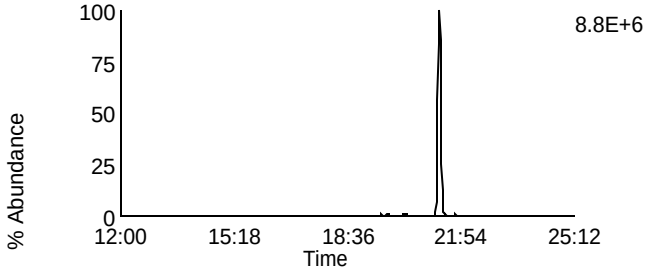
LCS LCSD-39805 - BAL



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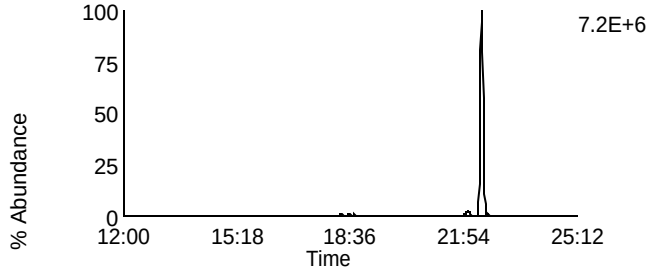
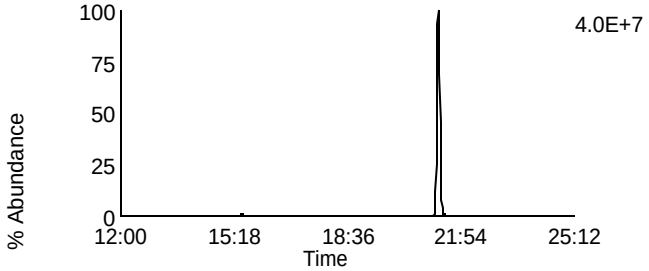
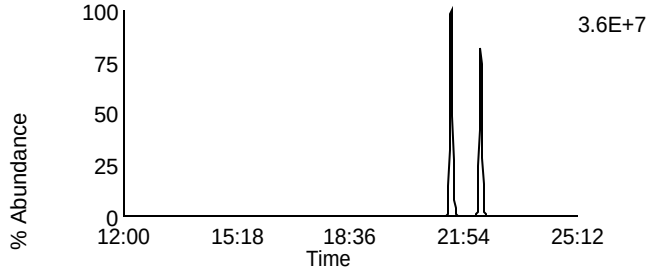
LCS LCSD-39805 - BAL



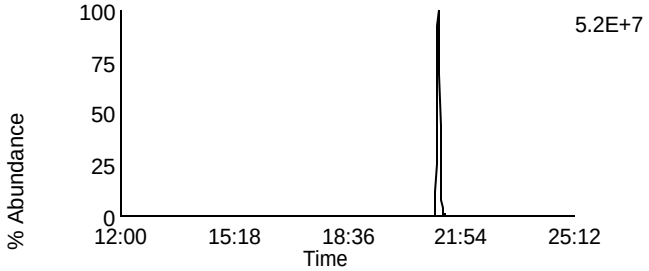
Data File: U140328B_06 G1 C3 - 315.9418
LCS LCSD-39805 - BAL



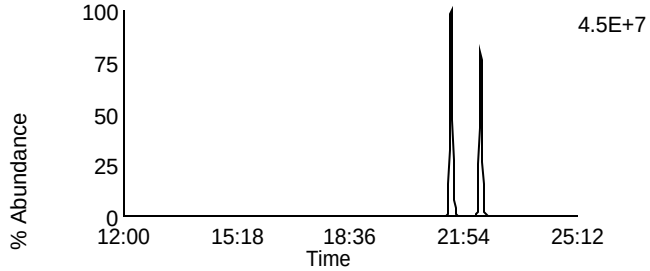
Data File: U140328B_06 G1 C10 - 331.9367
LCS LCSD-39805 - BAL



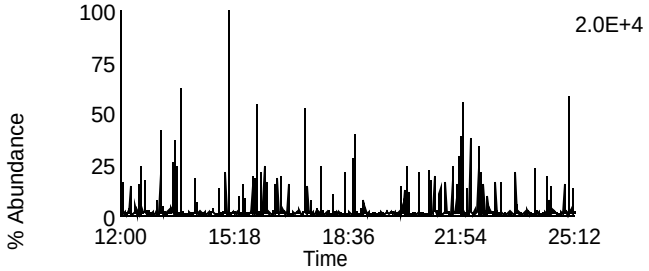
Data File: U140328B_06 G1 C4 - 317.9389
LCS LCSD-39805 - BAL



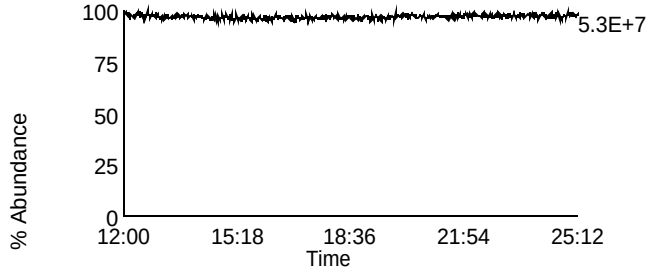
Data File: U140328B_06 G1 C11 - 333.9338
LCS LCSD-39805 - BAL



Data File: U140328B_06 G1 C14 - 375.8364
LCS LCSD-39805 - BAL



Data File: U140328B_06 G1 C5 - 318.9792
LCS LCSD-39805 - BAL

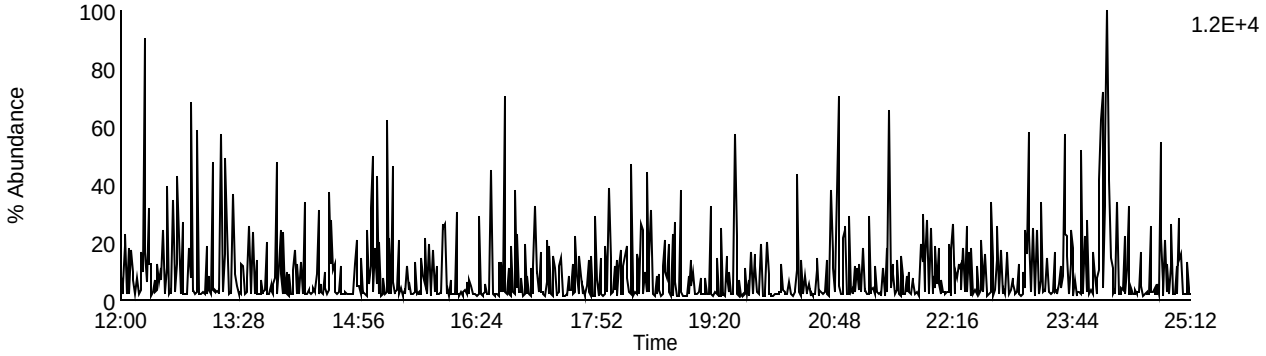


Homologue Group: Penta & Cleanup

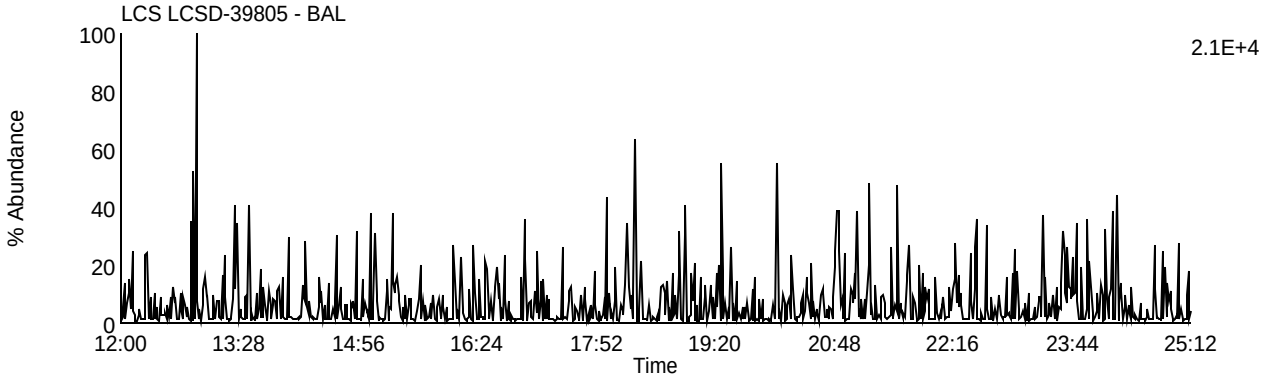
Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G1 C12 - 339.8597
LCS LCSD-39805 - BAL



Data File: U140328B_06 G1 C13 - 341.8567
LCS LCSD-39805 - BAL



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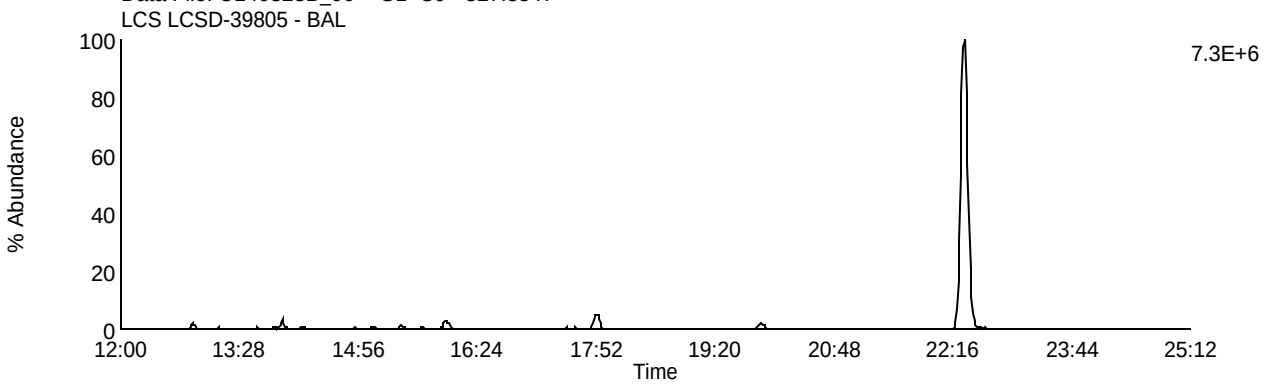
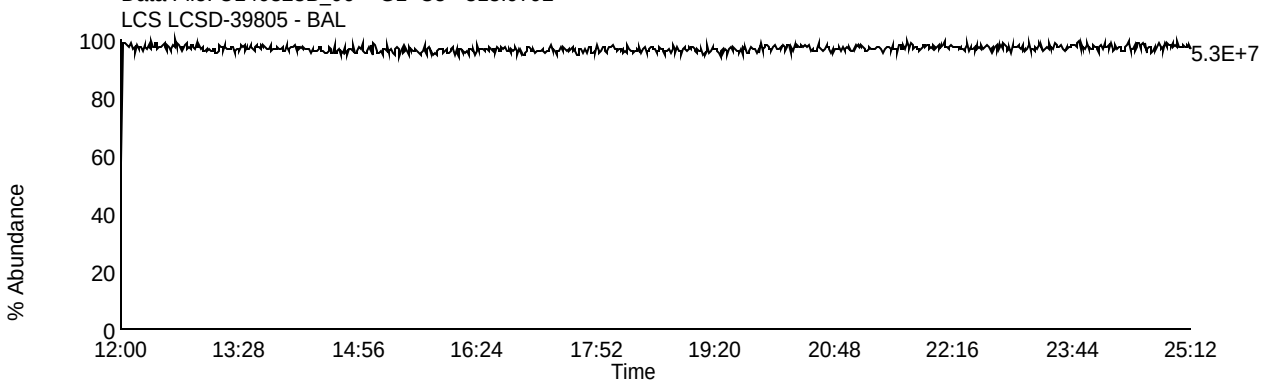
LCS LCSD-39805 - BAL



Data File: U140328B_06 G1 C5 - 318.9792
LCS LCSD-39805 - BAL

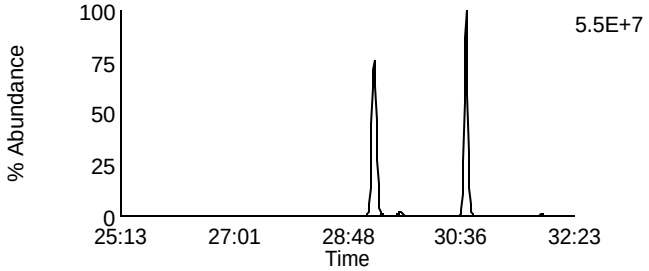


Homologue Group: Pentas

Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G2 C1 - 339.8597
LCS LCSD-39805 - BAL



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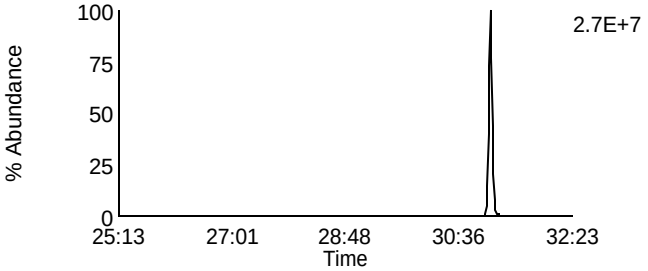
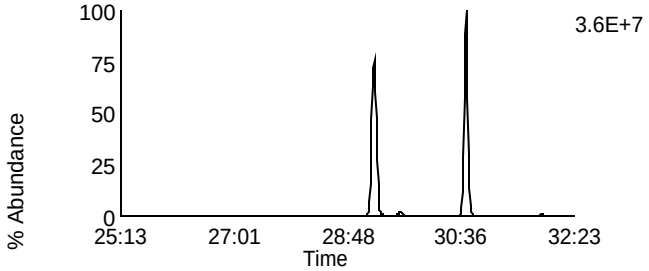
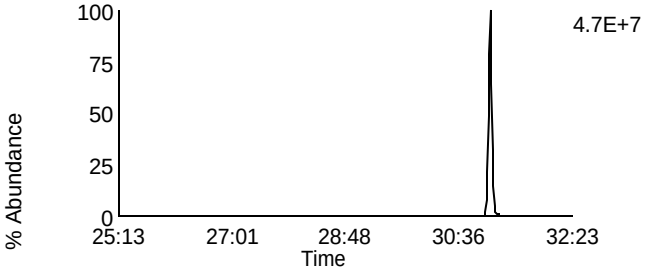
LCS LCSD-39805 - BAL



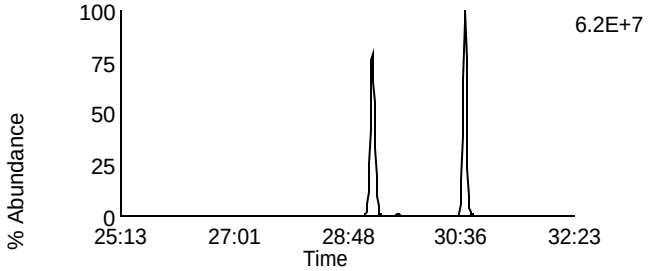
Data File: U140328B_06 G2 C2 - 341.8567
LCS LCSD-39805 - BAL



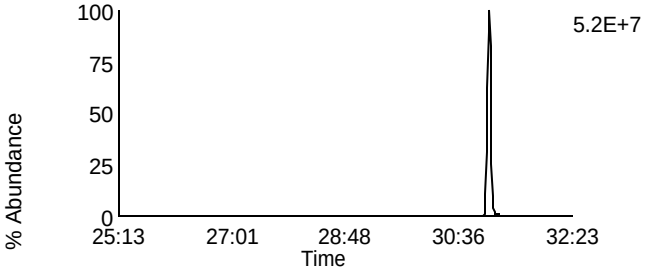
Data File: U140328B_06 G2 C8 - 355.8546
LCS LCSD-39805 - BAL



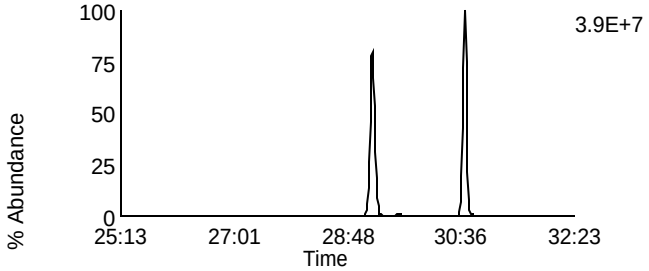
Data File: U140328B_06 G2 C3 - 351.8999
LCS LCSD-39805 - BAL



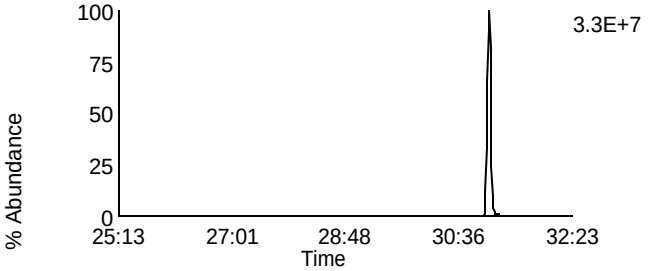
Data File: U140328B_06 G2 C10 - 367.8948
LCS LCSD-39805 - BAL



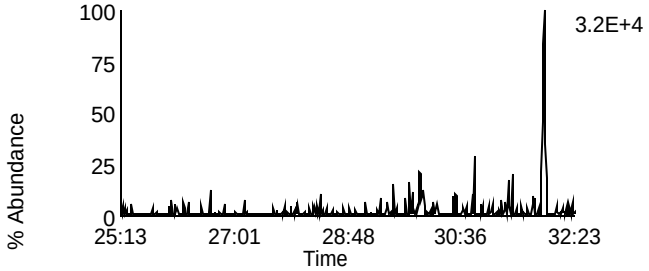
Data File: U140328B_06 G2 C5 - 353.8969
LCS LCSD-39805 - BAL



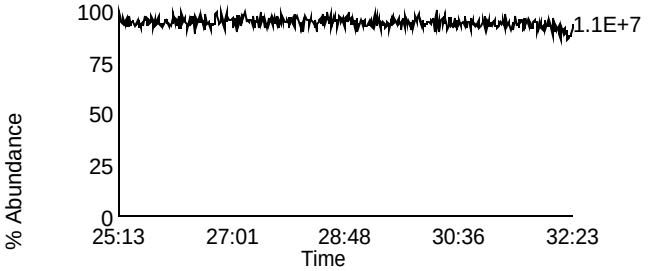
Data File: U140328B_06 G2 C11 - 369.8918
LCS LCSD-39805 - BAL



Data File: U140328B_06 G2 C12 - 409.7974
LCS LCSD-39805 - BAL



Data File: U140328B_06 G2 C6 - 354.9792
LCS LCSD-39805 - BAL

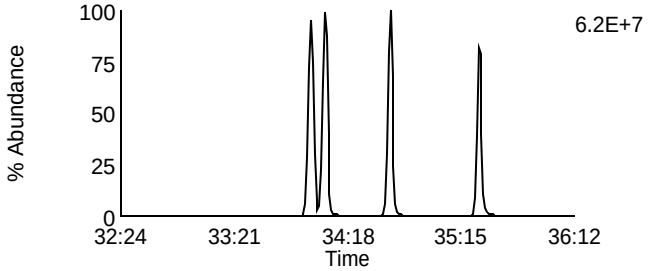


Homologue Group: Hexas

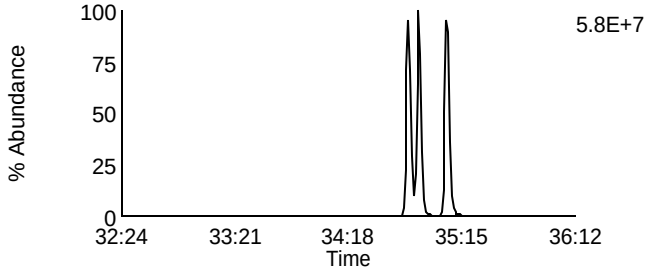
Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G3 C1 - 373.8207
LCS LCSD-39805 - BAL



Data File: U140328B_06 G3 C7 - 389.8156
LCS LCSD-39805 - BAL



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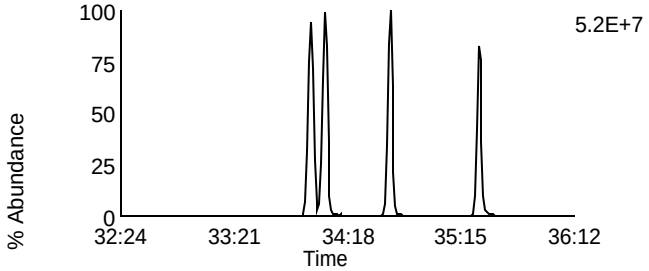
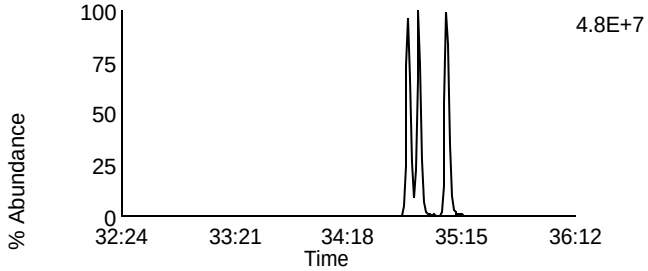
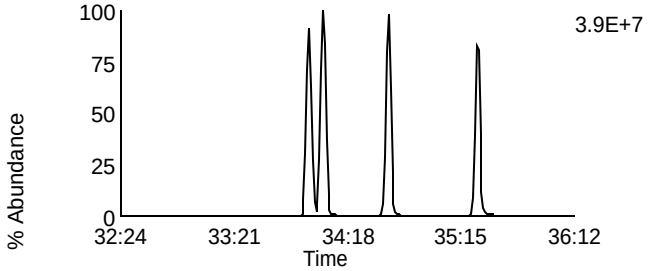
LCS LCSD-39805 - BAL



Data File: U140328B_06 G3 C8 - 391.8127
LCS LCSD-39805 - BAL



Data File: U140328B_06 G3 C5 - 383.8639
LCS LCSD-39805 - BAL



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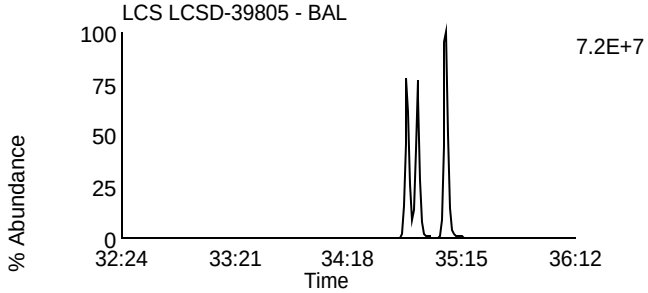
LCS LCSD-39805 - BAL



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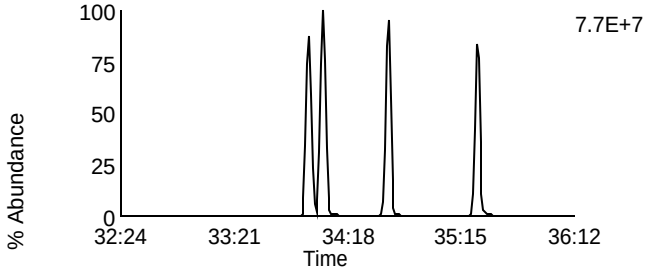
LCS LCSD-39805 - BAL



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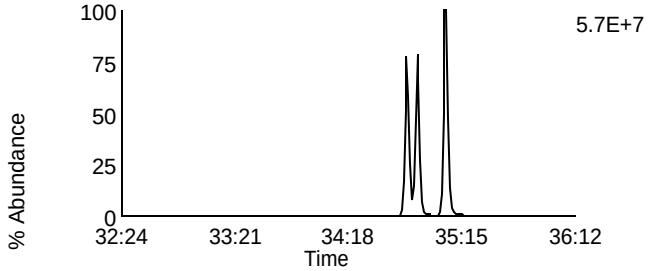
LCS LCSD-39805 - BAL



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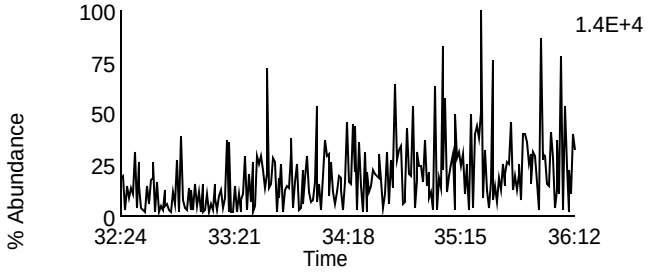
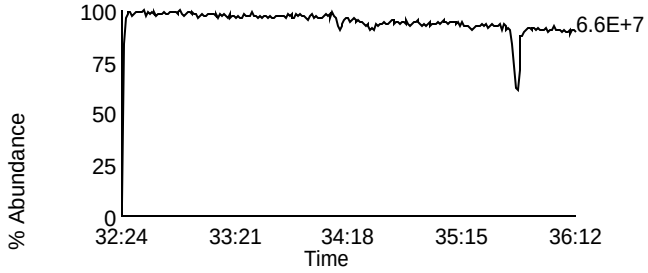
LCS LCSD-39805 - BAL



Data File: U140328B_06 G3 C3 - 380.976
LCS LCSD-39805 - BAL

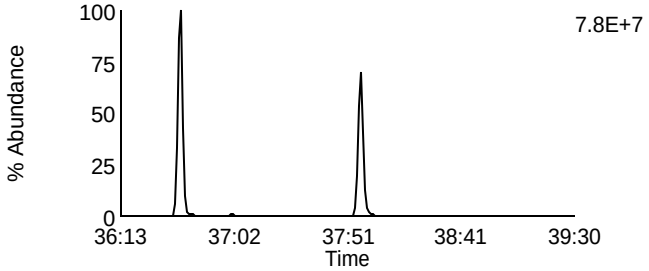


Homologue Group: Heptas

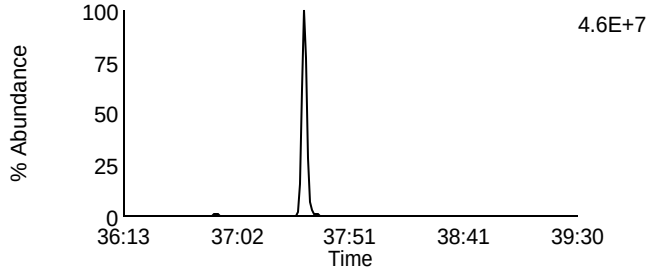
Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G4 C3 - 407.7818
LCS LCSD-39805 - BAL



Data File: U140328B_06 G4 C8 - 423.7767
LCS LCSD-39805 - BAL



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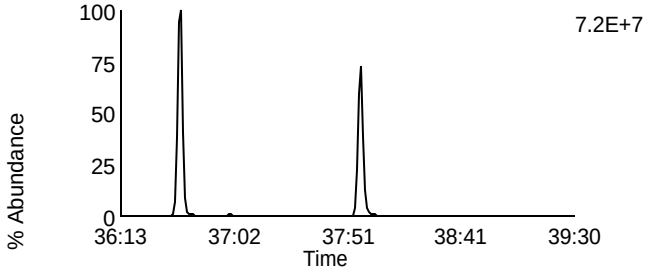
LCS LCSD-39805 - BAL



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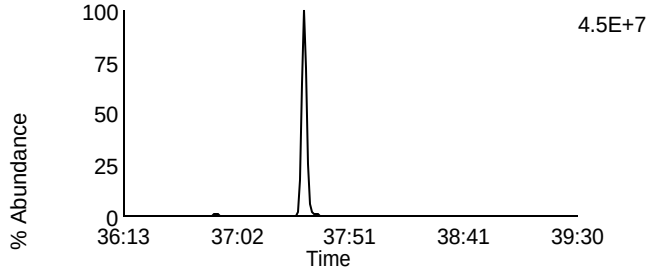
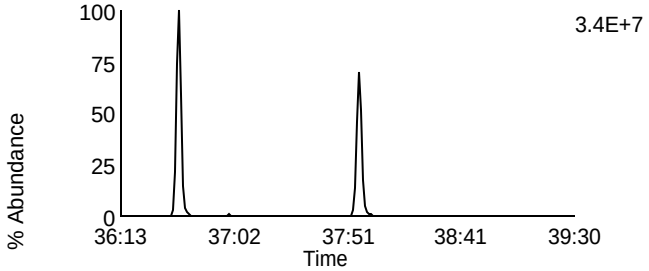
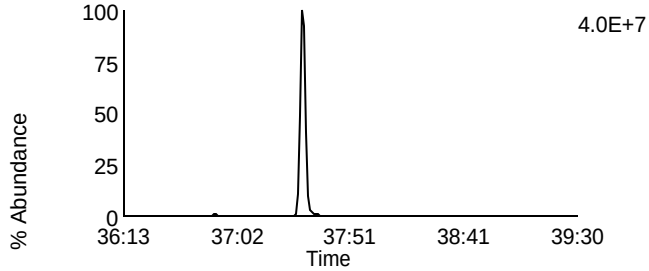
LCS LCSD-39805 - BAL



Data File: U140328B_06 G4 C6 - 417.825
LCS LCSD-39805 - BAL



Data File: U140328B_06 G4 C11 - 435.8169
LCS LCSD-39805 - BAL



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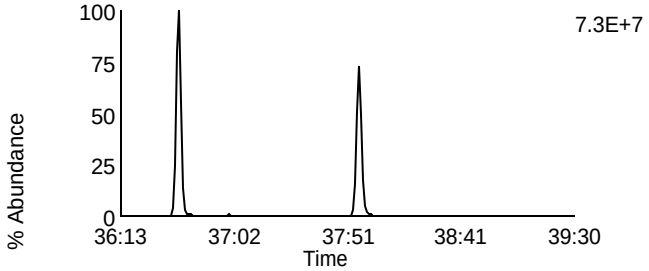
LCS LCSD-39805 - BAL



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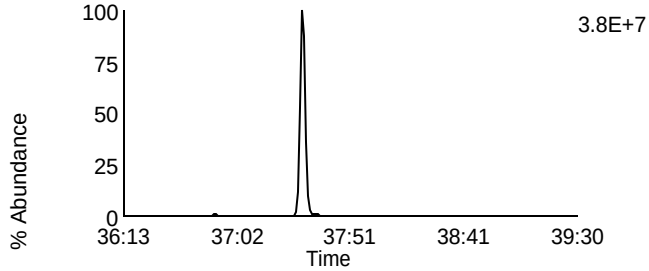
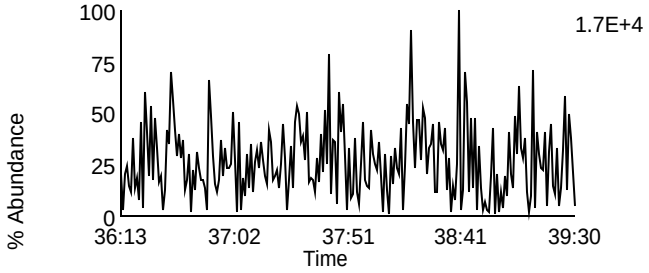
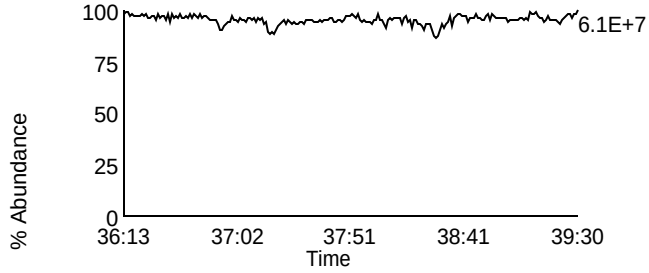
LCS LCSD-39805 - BAL



Data File: U140328B_06 G4 C13 - 479.7165
LCS LCSD-39805 - BAL



Data File: U140328B_06 G4 C1 - 380.976
LCS LCSD-39805 - BAL

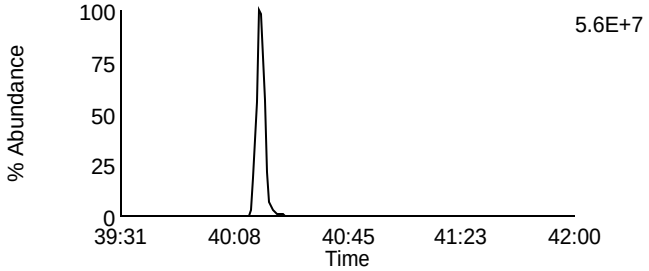


Homologue Group: Octas

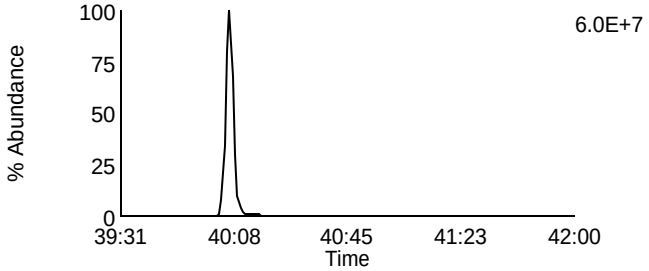
Data File Name: U140328B_06
Date Acquired: 3/28/2014
Sample Description: LCS LCSD-39805 - BAL

Lab Sample ID: LCSD-39805
Client Sample ID: DLCSWI
Instrument: 10MSHR06 (U)

Data File: U140328B_06 G5 C4 - 441.7428
LCS LCSD-39805 - BAL



Data File: U140328B_06 G5 C8 - 457.7377
LCS LCSD-39805 - BAL



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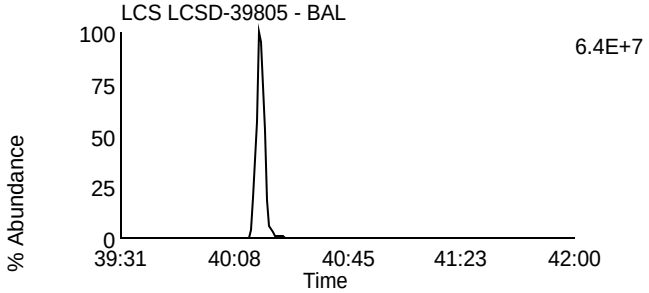
LCS LCSD-39805 - BAL



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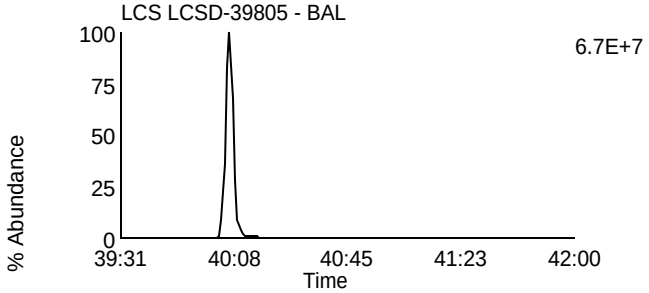
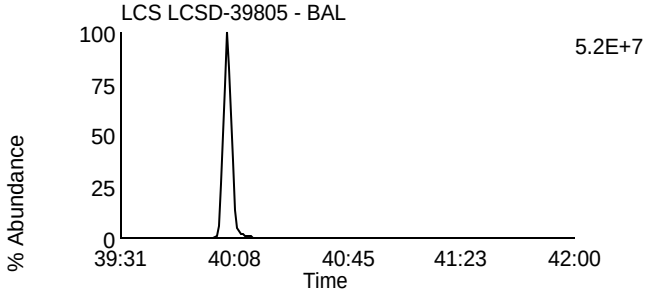
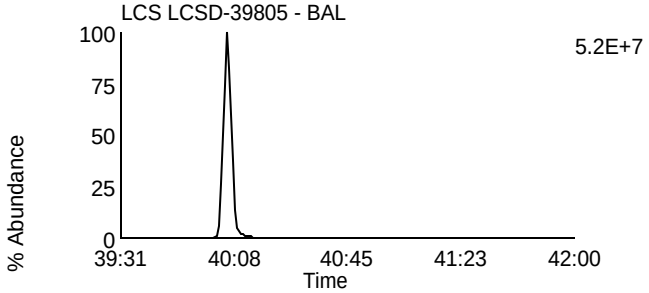
LCS LCSD-39805 - BAL



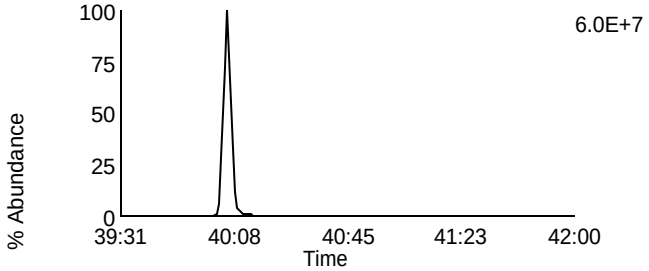
Data File: U140328B_06 G5 C11 - 469.7779
LCS LCSD-39805 - BAL



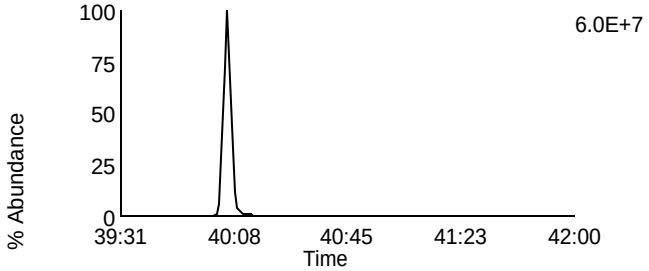
Data File: U140328B_06 G5 C11 - 469.7779
LCS LCSD-39805 - BAL



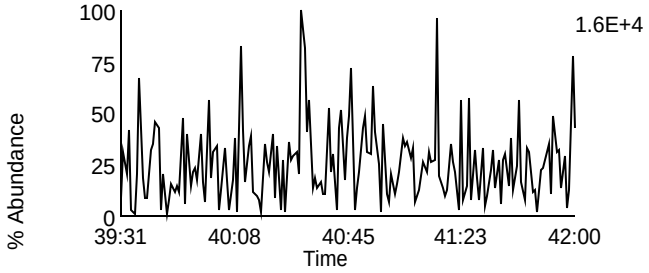
Data File: U140328B_06 G5 C12 - 471.7749
LCS LCSD-39805 - BAL



Data File: U140328B_06 G5 C12 - 471.7749
LCS LCSD-39805 - BAL



Data File: U140328B_06 G5 C13 - 513.6775
LCS LCSD-39805 - BAL



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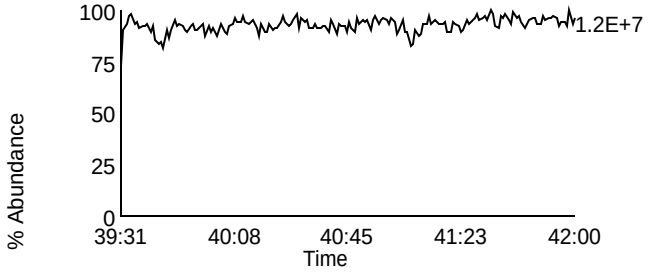
LCS LCSD-39805 - BAL

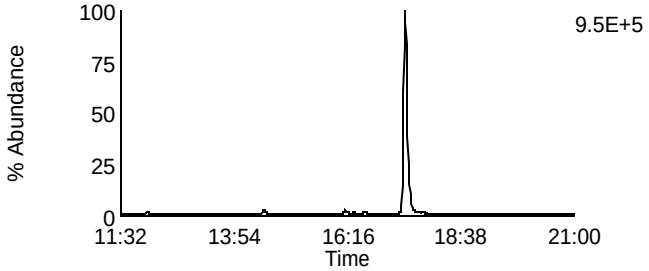


Homologue Group: Tetras

Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_10 G1 C1 - 303.9016
SAMP 10260486003-MS - BAL PASI-WI



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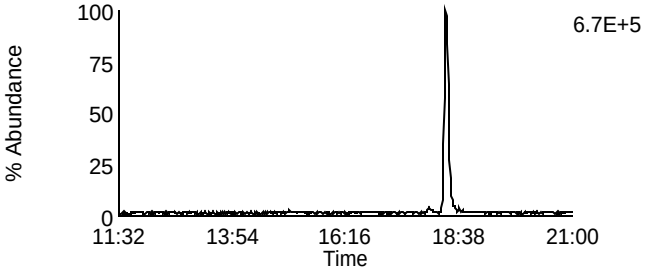
SAMP 10260486003-MS - BAL PASI-WI



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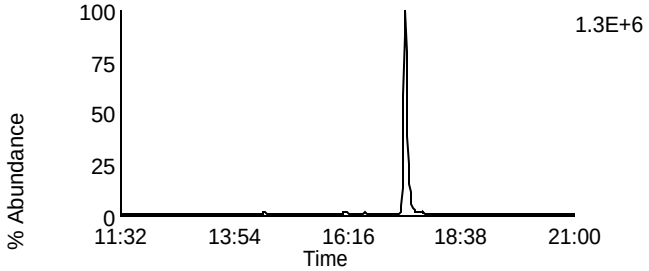
SAMP 10260486003-MS - BAL PASI-WI



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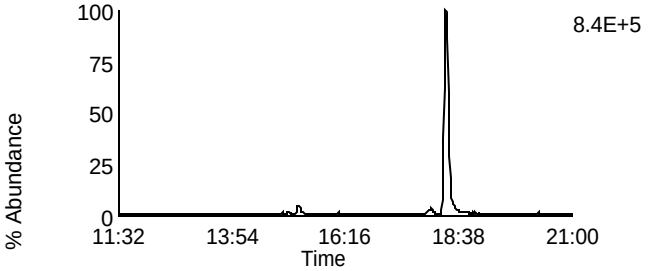
SAMP 10260486003-MS - BAL PASI-WI



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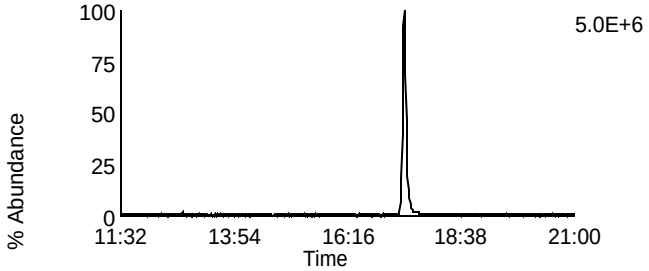
SAMP 10260486003-MS - BAL PASI-WI



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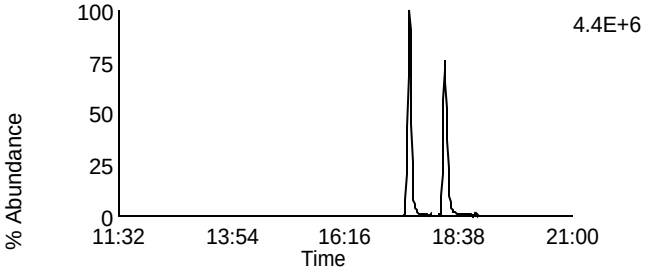
SAMP 10260486003-MS - BAL PASI-WI



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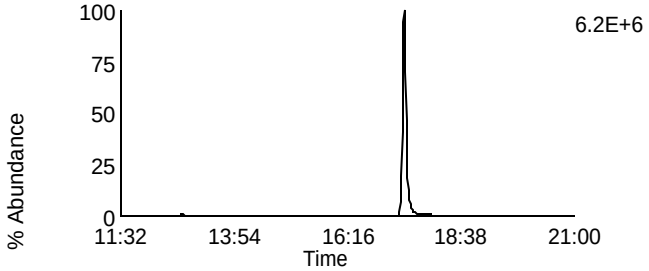
SAMP 10260486003-MS - BAL PASI-WI



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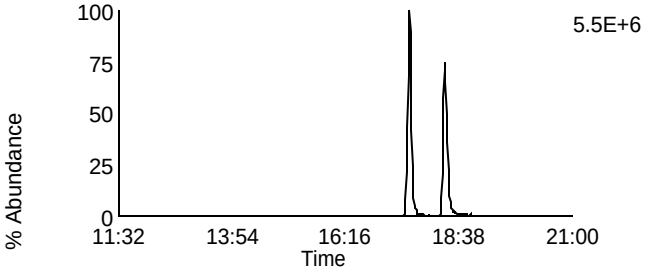
SAMP 10260486003-MS - BAL PASI-WI



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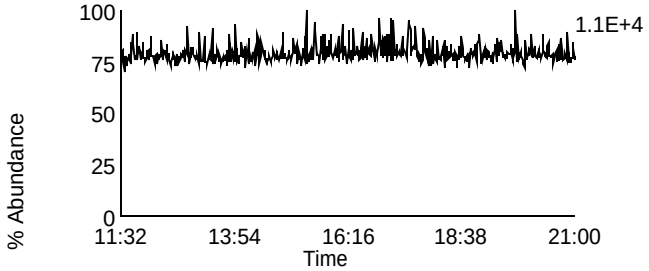
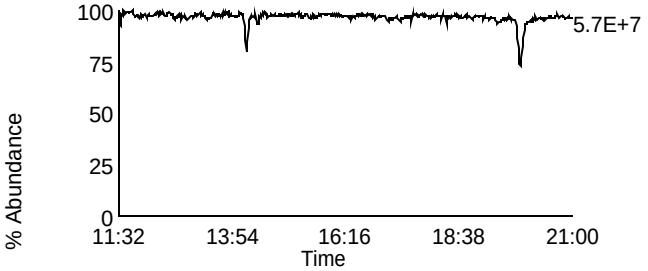
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G1 C5 - 318.9792
SAMP 10260486003-MS - BAL PASI-WI

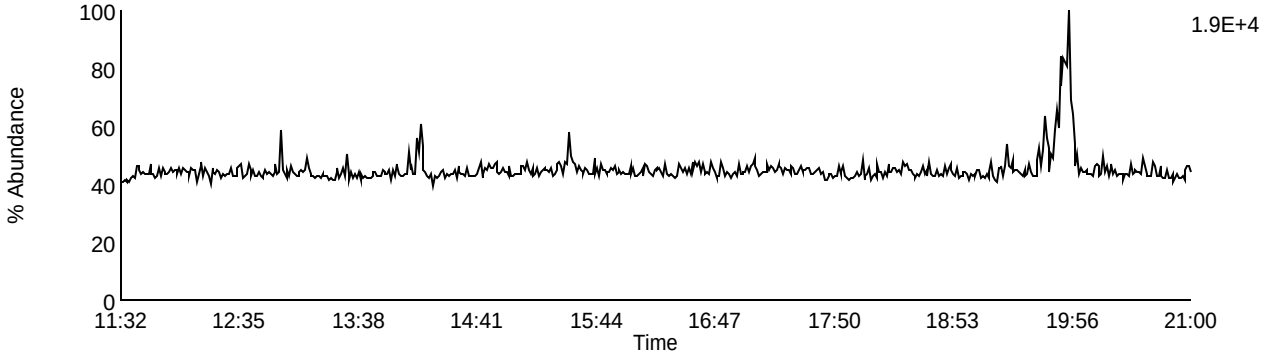


Homologue Group: Penta & Cleanup

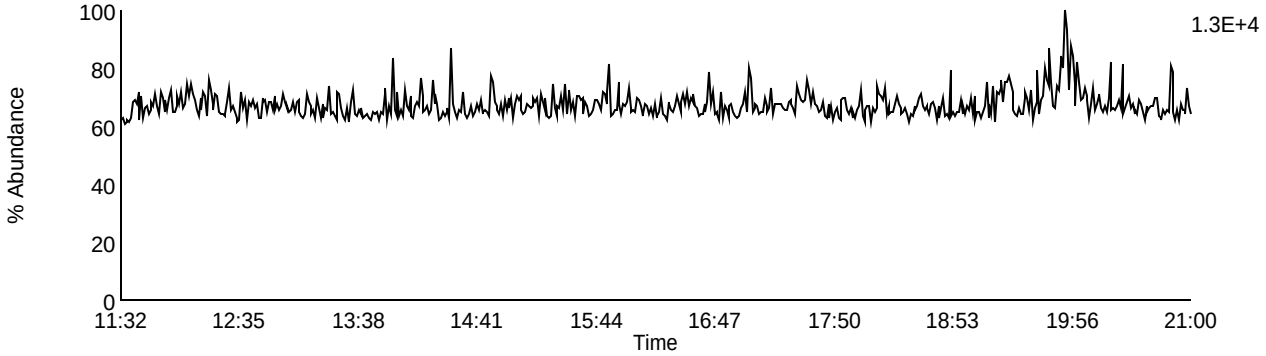
Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

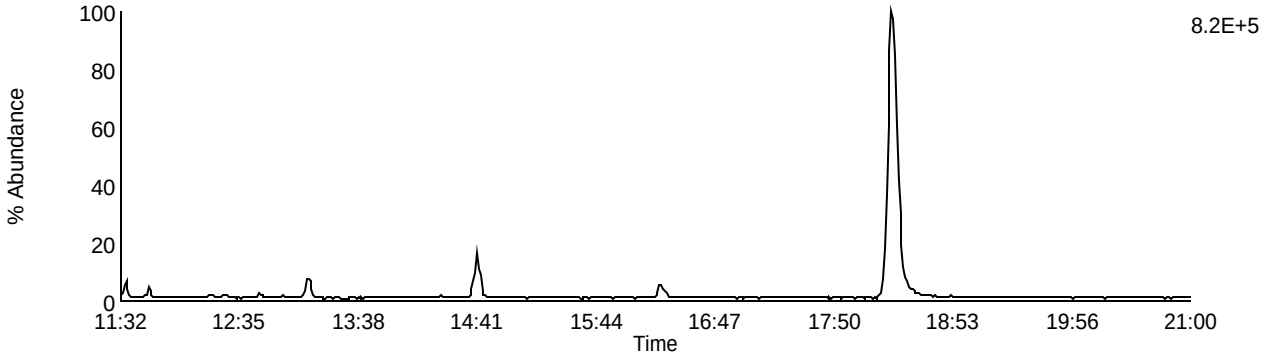
Data File: P140322B_10 G1 C12 - 339.8597
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G1 C13 - 341.8567
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G1 C9 - 327.8847
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G1 C5 - 318.9792
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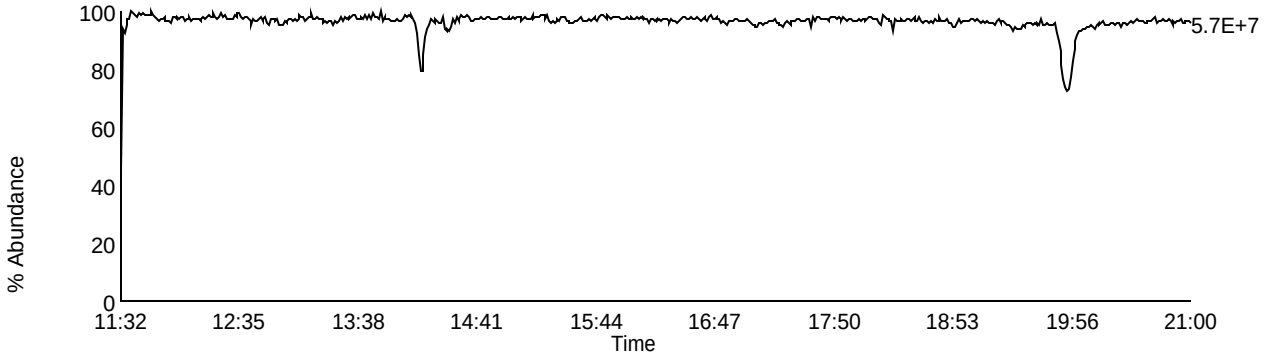
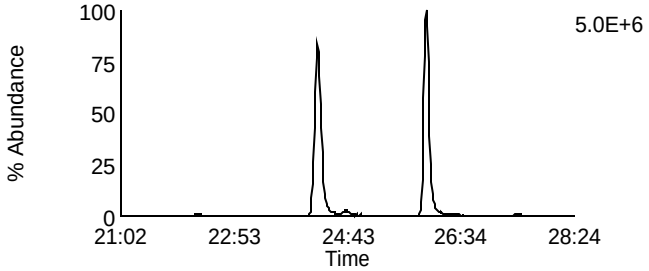


Homologue Group: Pentas

Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_10 G2 C1 - 339.8597
SAMP 10260486003-MS - BAL PASI-WI



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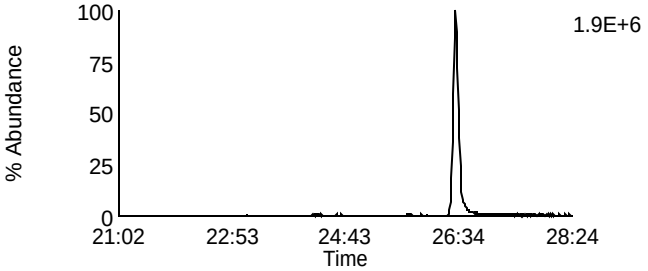
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G2 C2 - 341.8567
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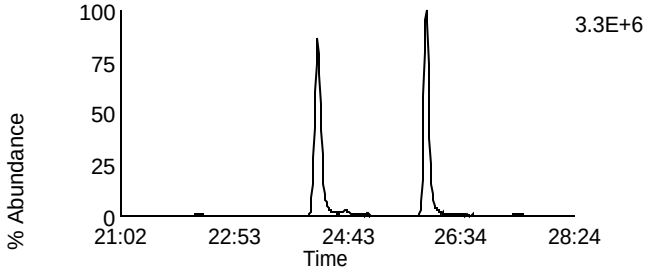

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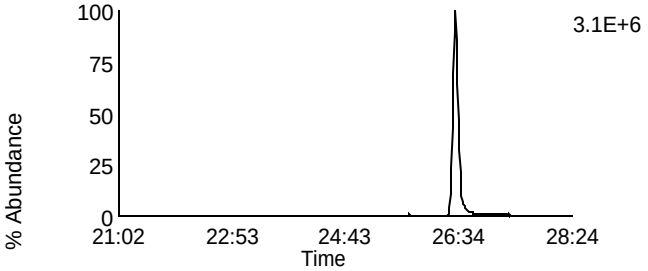
SAMP 10260486003-MS - BAL PASI-WI



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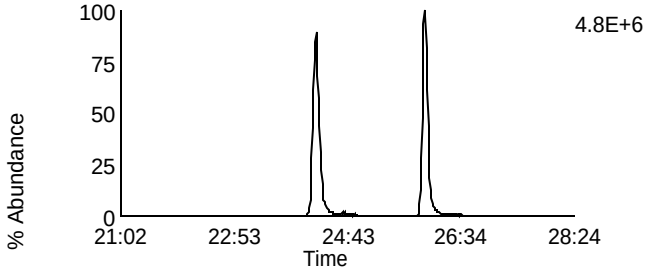
SAMP 10260486003-MS - BAL PASI-WI



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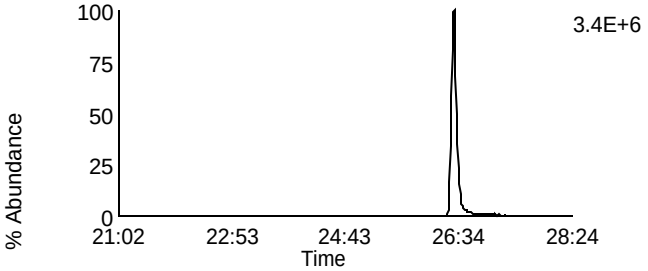
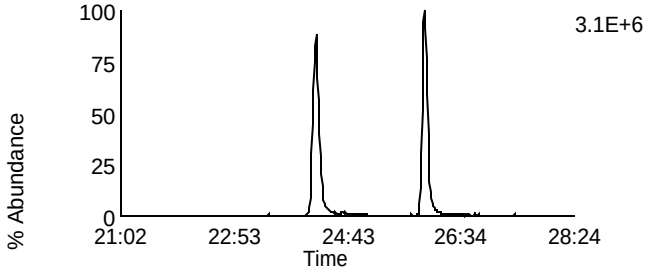
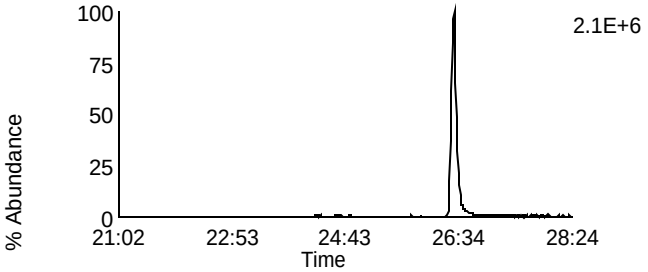
SAMP 10260486003-MS - BAL PASI-WI



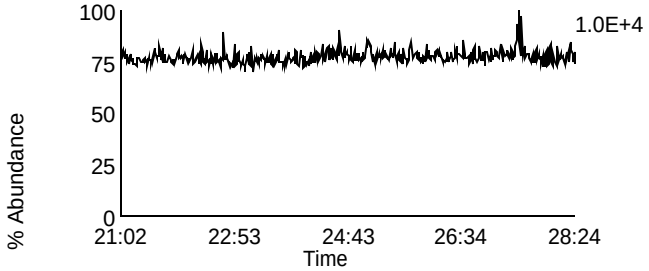
Data File: P140322B_10 G2 C5 - 353.8969
SAMP 10260486003-MS - BAL PASI-WI



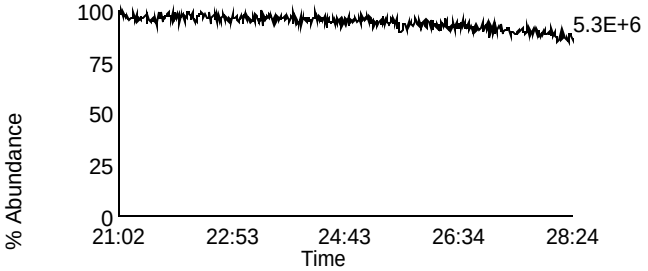
Data File: P140322B_10 G2 C11 - 369.8918
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G2 C12 - 409.7974
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G2 C6 - 354.9792
SAMP 10260486003-MS - BAL PASI-WI

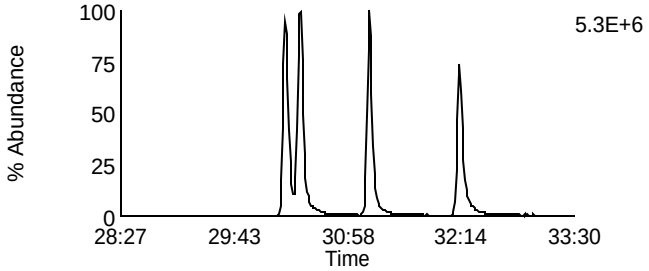


Homologue Group: Hexas

Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_10 G3 C1 - 373.8207
SAMP 10260486003-MS - BAL PASI-WI



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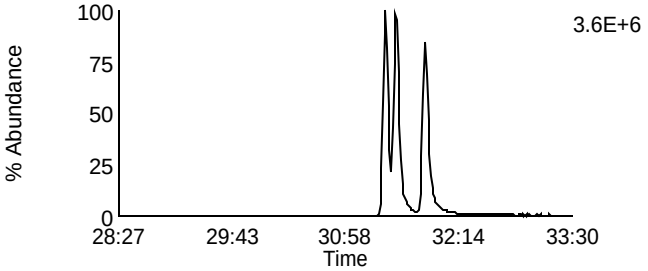
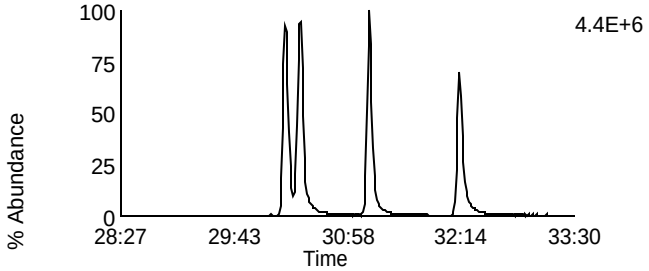
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G3 C2 - 375.8178
SAMP 10260486003-MS - BAL PASI-WI



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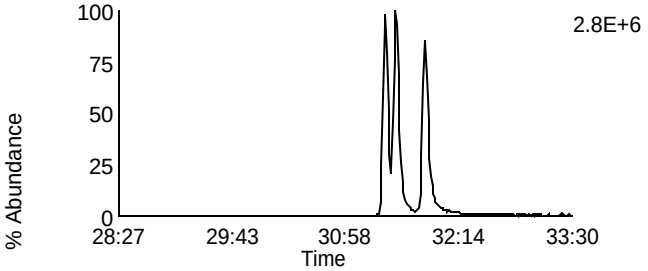
SAMP 10260486003-MS - BAL PASI-WI



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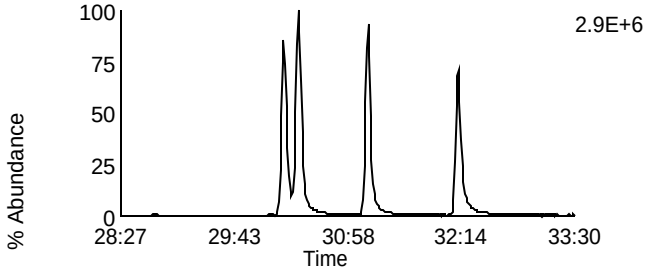
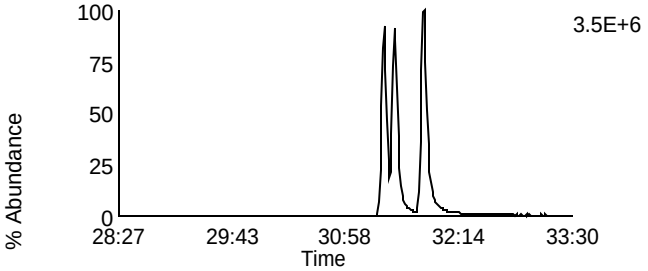
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G3 C9 - 401.8559
SAMP 10260486003-MS - BAL PASI-WI



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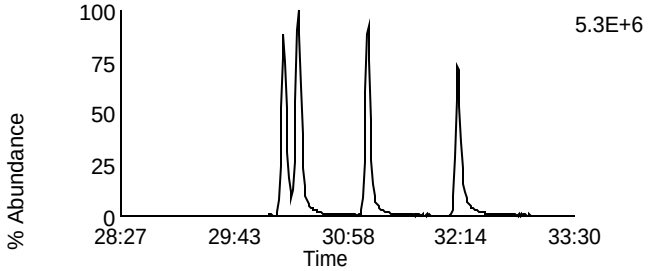
SAMP 10260486003-MS - BAL PASI-WI



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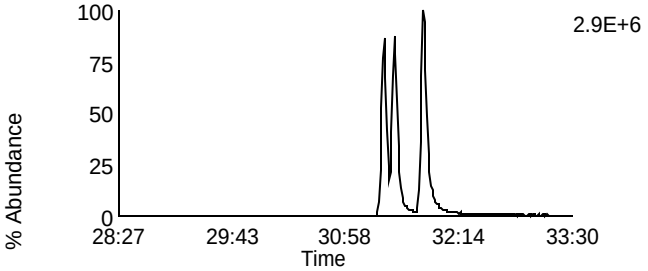
SAMP 10260486003-MS - BAL PASI-WI



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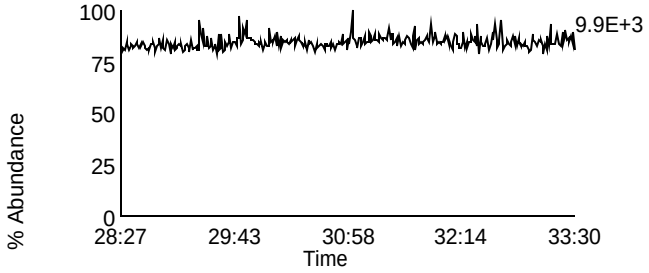
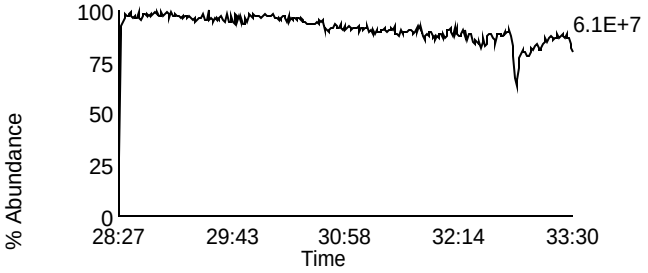


Data File: P140322B_10 G3 C3 - 380.976
SAMP 10260486003-MS - BAL PASI-WI

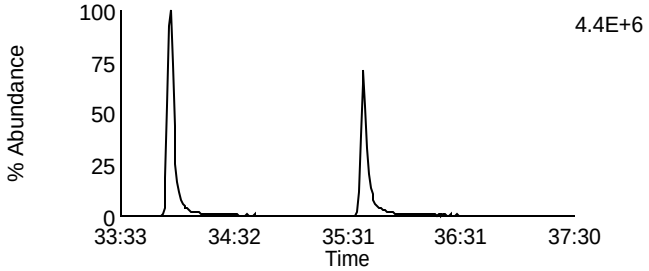


Homologue Group: Heptas

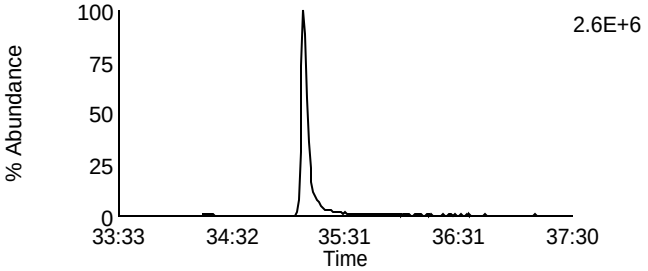
Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

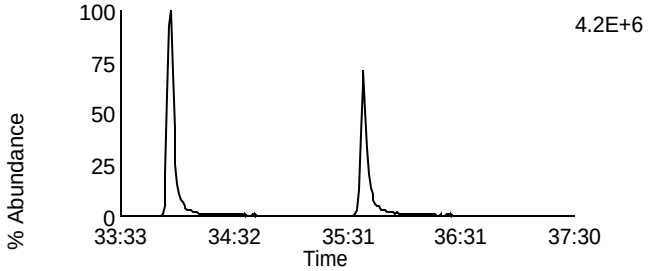
Data File: P140322B_10 G4 C3 - 407.7818
SAMP 10260486003-MS - BAL PASI-WI



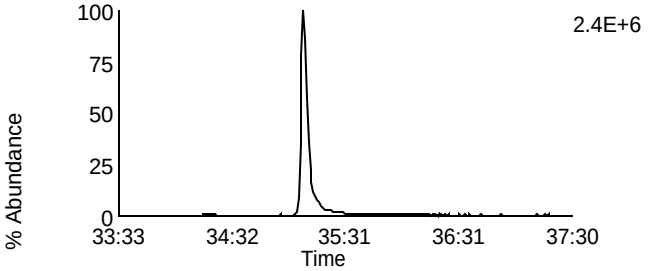
Data File: P140322B_10 G4 C8 - 423.7767
SAMP 10260486003-MS - BAL PASI-WI



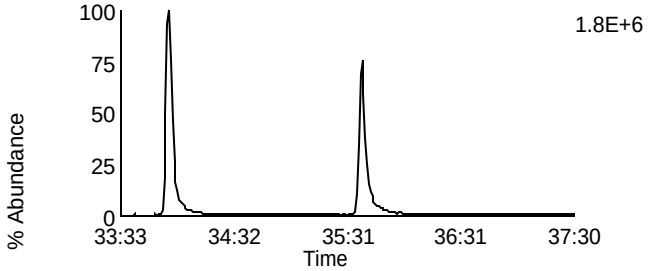
Data File: P140322B_10 G4 C4 - 409.7788
SAMP 10260486003-MS - BAL PASI-WI



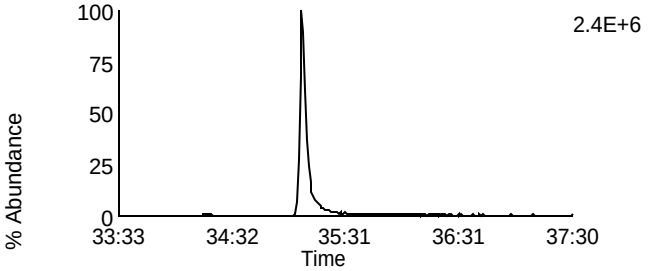
Data File: P140322B_10 G4 C9 - 425.7737
SAMP 10260486003-MS - BAL PASI-WI



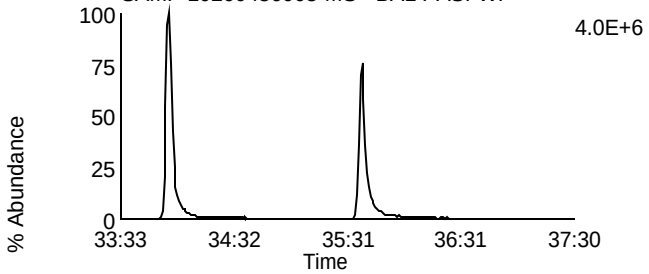
Data File: P140322B_10 G4 C6 - 417.825
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G4 C11 - 435.8169
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G4 C7 - 419.822
SAMP 10260486003-MS - BAL PASI-WI



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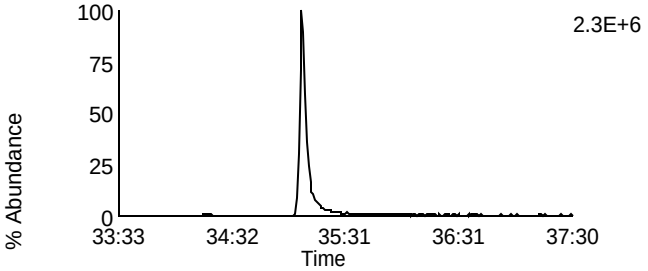

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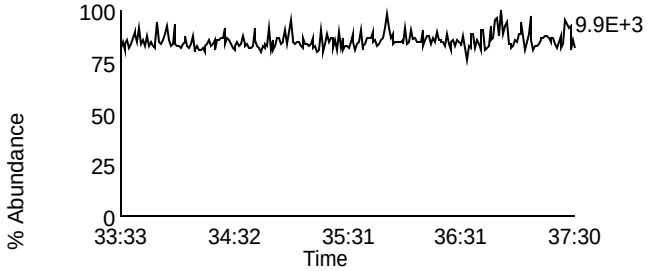
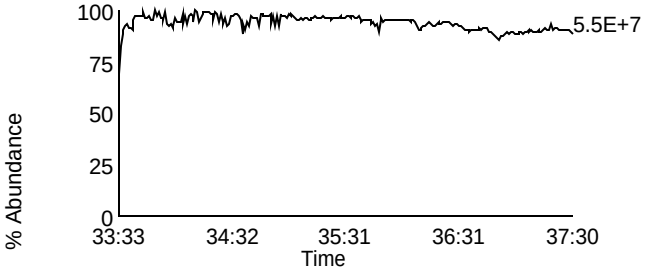
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G4 C1 - 380.976
SAMP 10260486003-MS - BAL PASI-WI

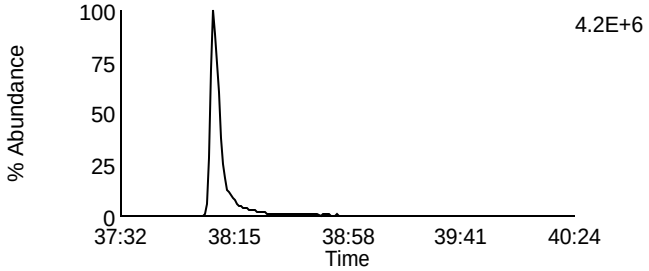


Homologue Group: Octas

Data File Name: P140322B_10
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MS - BAL PASI-WI

Lab Sample ID: 10260486003-MS
Client Sample ID: MAK114C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_10 G5 C4 - 441.7428
SAMP 10260486003-MS - BAL PASI-WI



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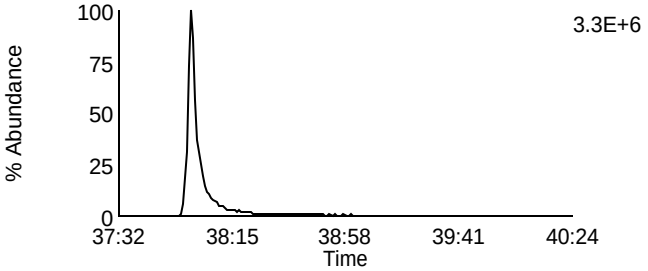
SAMP 10260486003-MS - BAL PASI-WI



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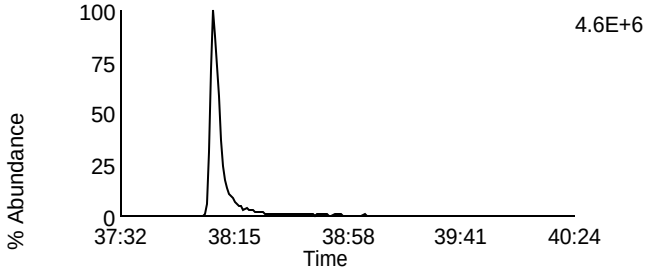
SAMP 10260486003-MS - BAL PASI-WI



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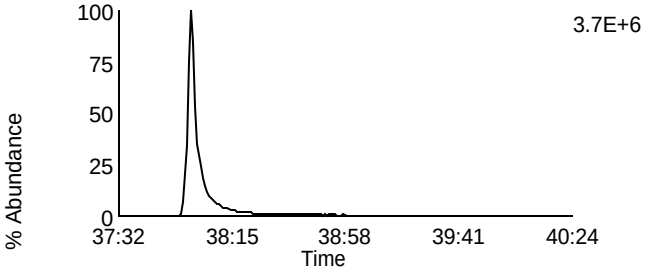
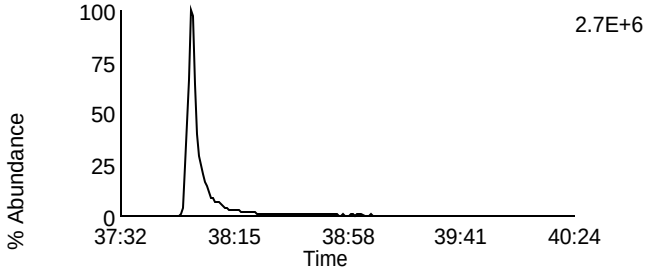
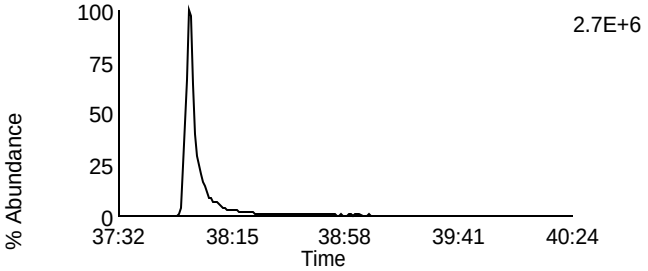
SAMP 10260486003-MS - BAL PASI-WI



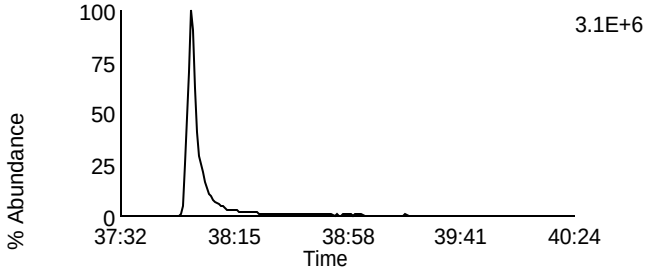
Data File: P140322B_10 G5 C11 - 469.7779
SAMP 10260486003-MS - BAL PASI-WI



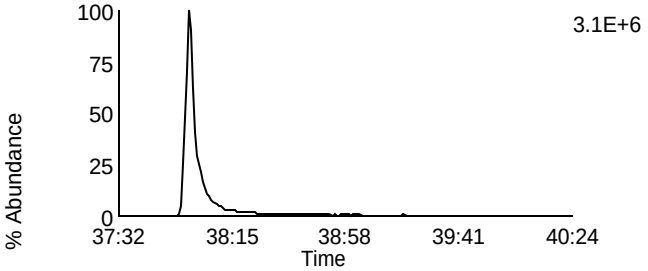
Data File: P140322B_10 G5 C11 - 469.7779
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G5 C12 - 471.7749
SAMP 10260486003-MS - BAL PASI-WI



Data File: P140322B_10 G5 C12 - 471.7749
SAMP 10260486003-MS - BAL PASI-WI



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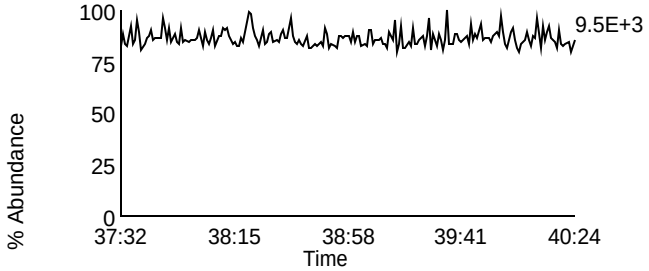
SAMP 10260486003-MS - BAL PASI-WI



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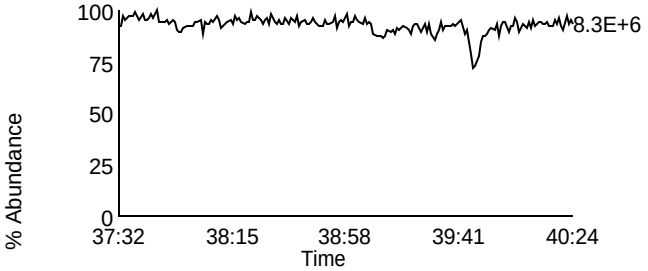
SAMP 10260486003-MS - BAL PASI-WI

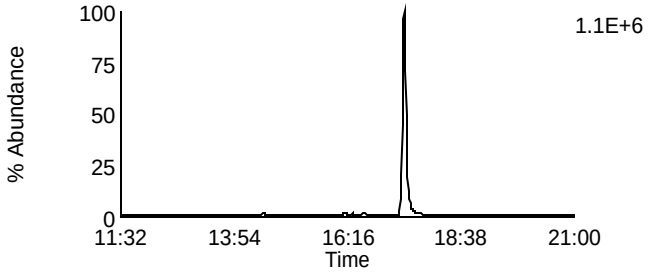


Homologue Group: Tetras

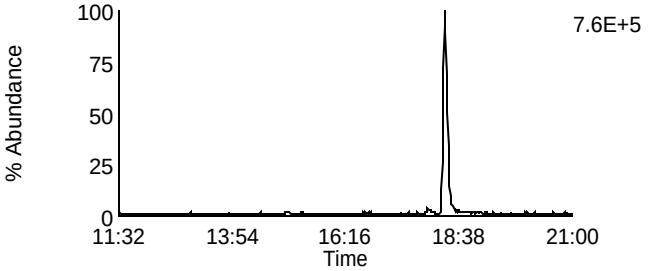
Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_11 G1 C1 - 303.9016
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C7 - 319.8965
SAMP 10260486003-MSD - BAL PASI-WI



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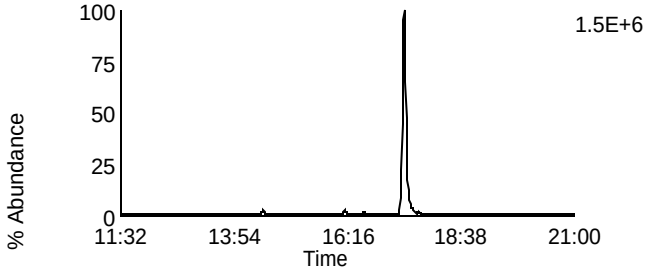
SAMP 10260486003-MSD - BAL PASI-WI



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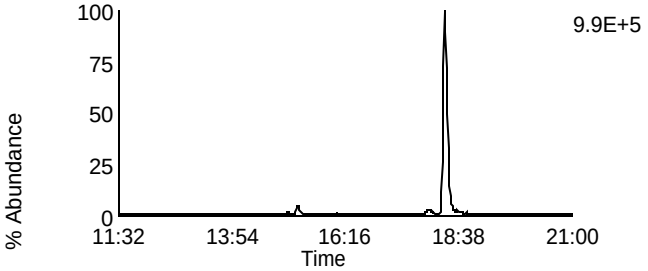
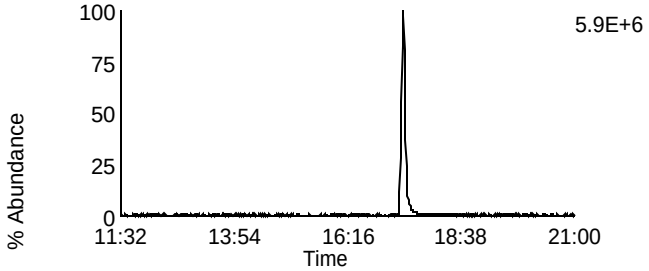
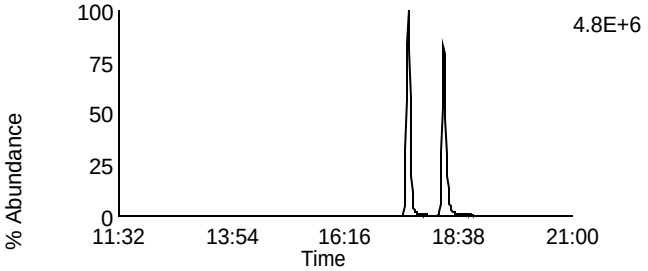
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C3 - 315.9418
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C10 - 331.9367
SAMP 10260486003-MSD - BAL PASI-WI



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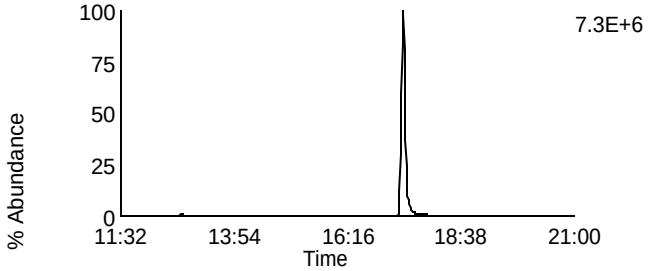
SAMP 10260486003-MSD - BAL PASI-WI



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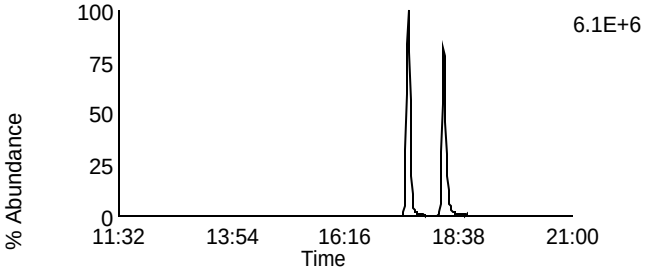
SAMP 10260486003-MSD - BAL PASI-WI



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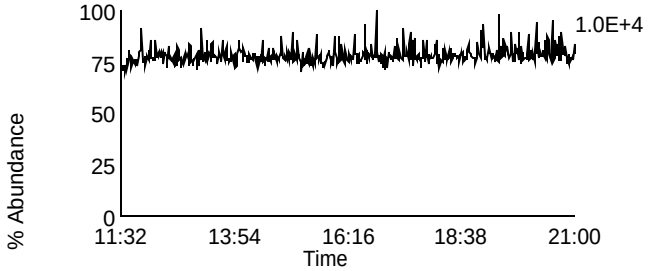
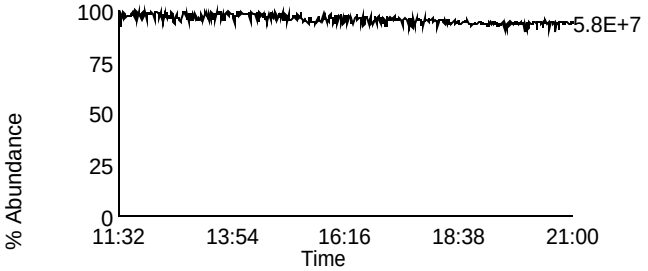
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C5 - 318.9792
SAMP 10260486003-MSD - BAL PASI-WI

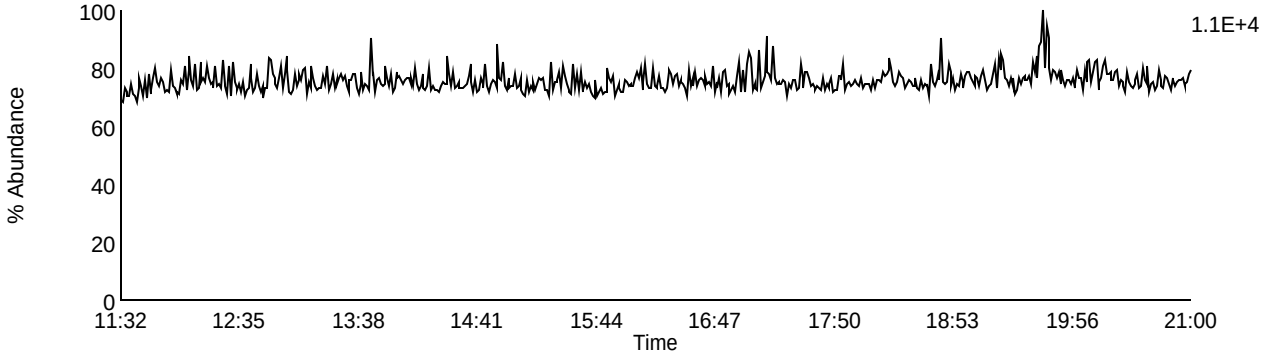


Homologue Group: Penta & Cleanup

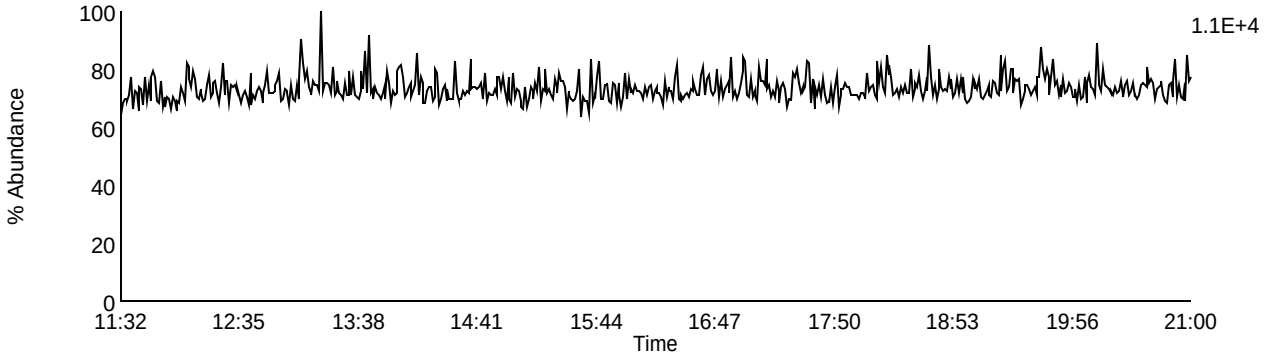
Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

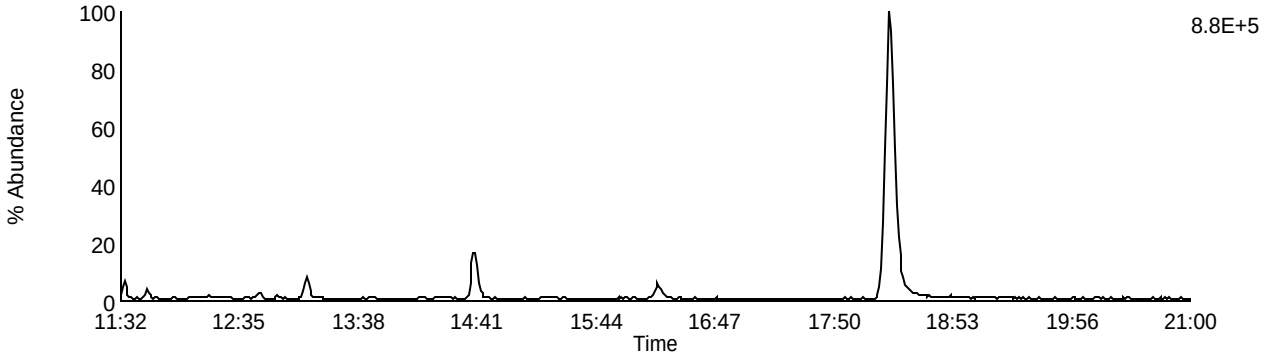
Data File: P140322B_11 G1 C12 - 339.8597
SAMP 10260486003-MSD - BAL PASI-WI



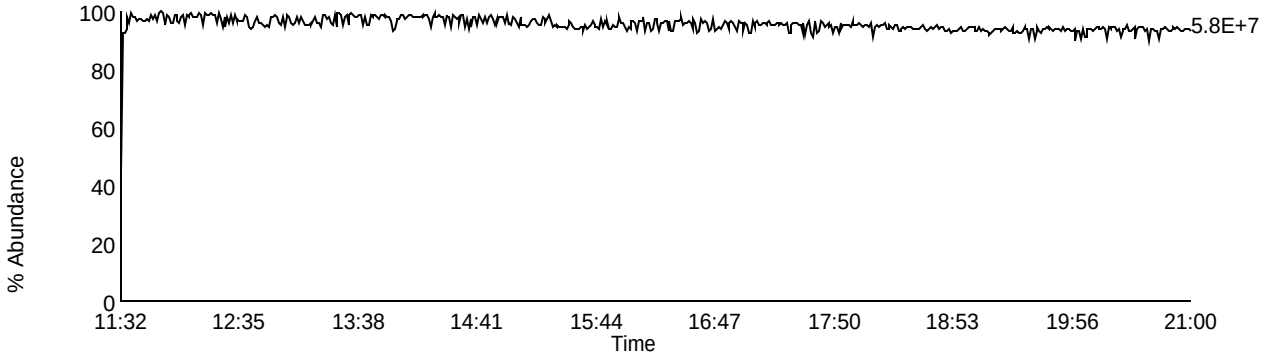
Data File: P140322B_11 G1 C13 - 341.8567
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C9 - 327.8847
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G1 C5 - 318.9792
SAMP 10260486003-MSD - BAL PASI-WI

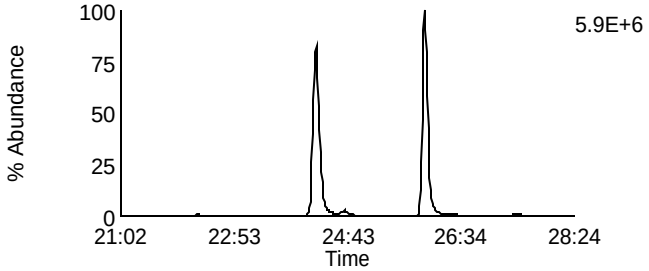


Homologue Group: Pentas

Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_11 G2 C1 - 339.8597
SAMP 10260486003-MSD - BAL PASI-WI



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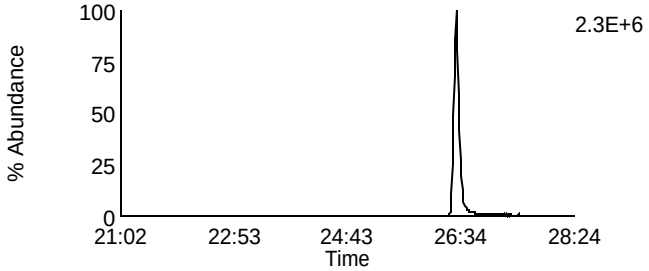
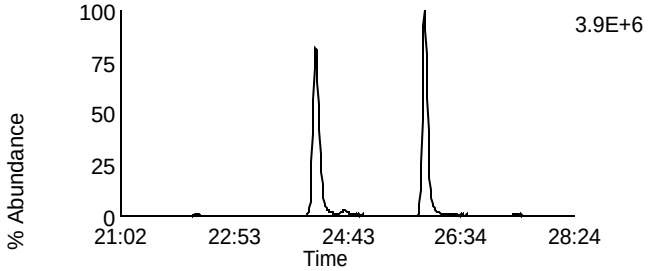
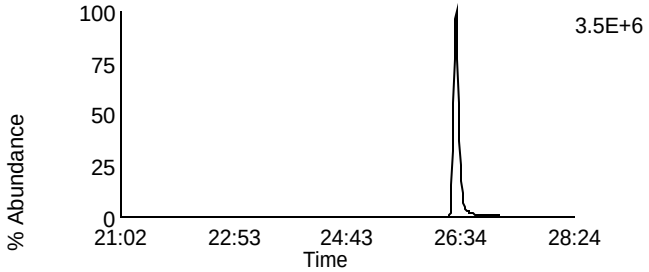
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G2 C2 - 341.8567
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G2 C8 - 355.8546
SAMP 10260486003-MSD - BAL PASI-WI



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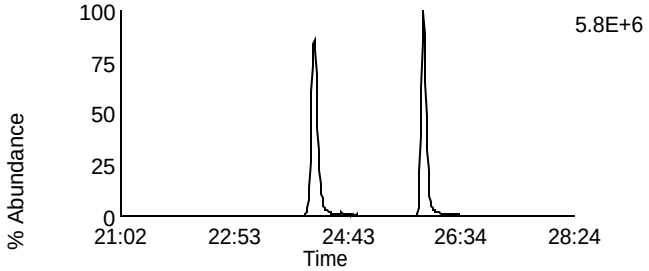
SAMP 10260486003-MSD - BAL PASI-WI



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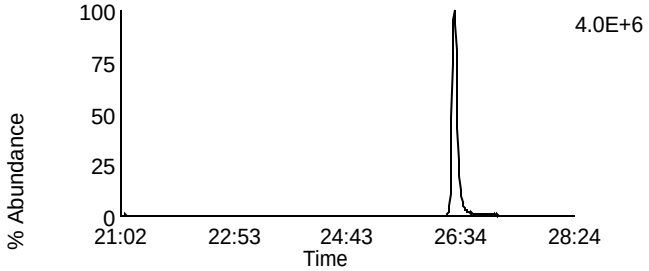
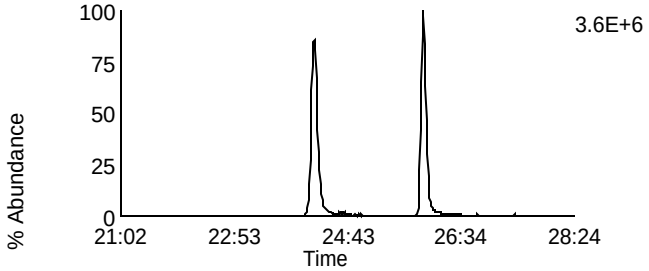
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G2 C5 - 353.8969
SAMP 10260486003-MSD - BAL PASI-WI



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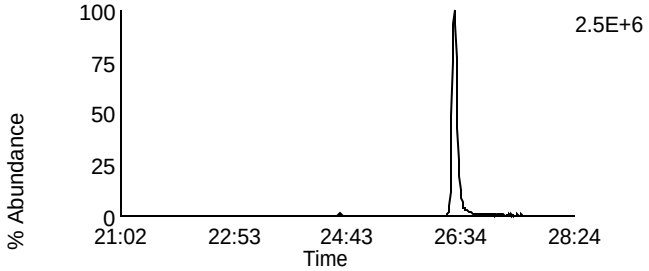
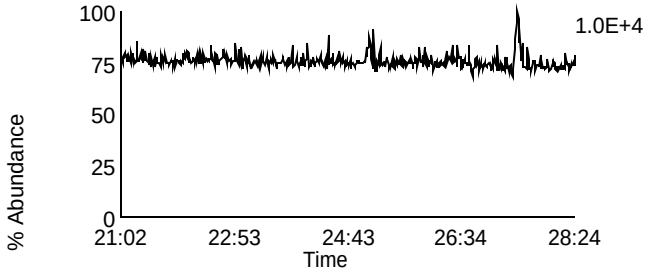
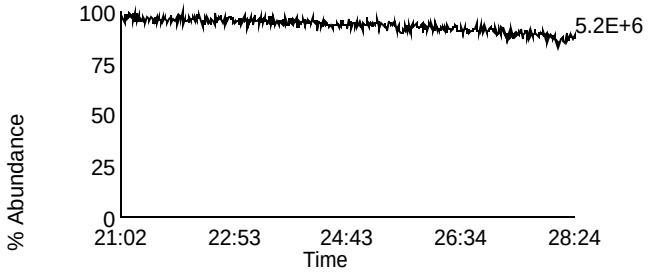
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G2 C12 - 409.7974
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G2 C6 - 354.9792
SAMP 10260486003-MSD - BAL PASI-WI

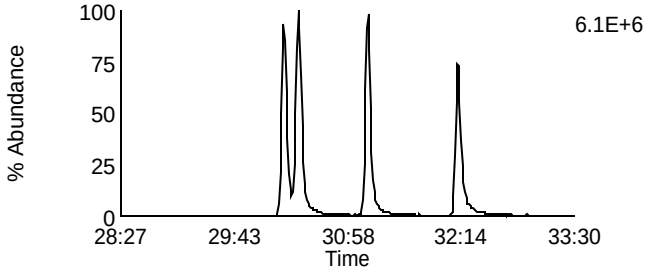


Homologue Group: Hexas

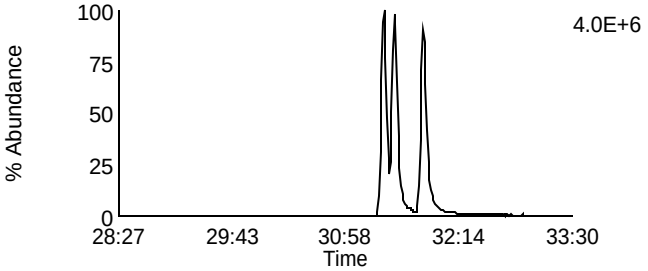
Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

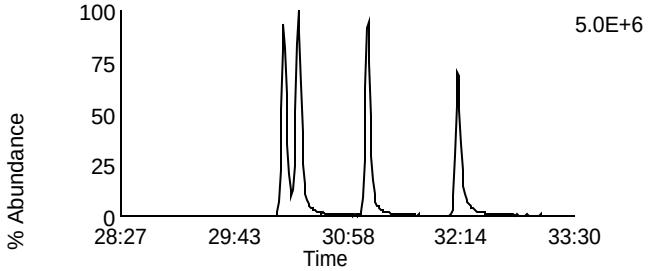
Data File: P140322B_11 G3 C1 - 373.8207
SAMP 10260486003-MSD - BAL PASI-WI



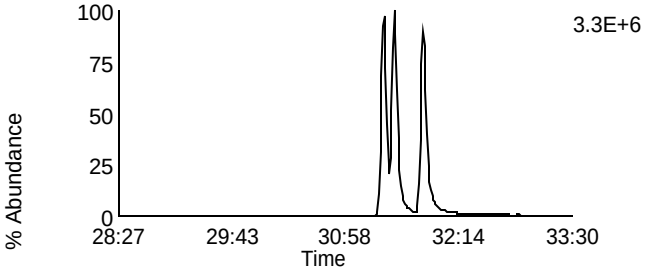
Data File: P140322B_11 G3 C7 - 389.8156
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G3 C2 - 375.8178
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G3 C8 - 391.8127
SAMP 10260486003-MSD - BAL PASI-WI



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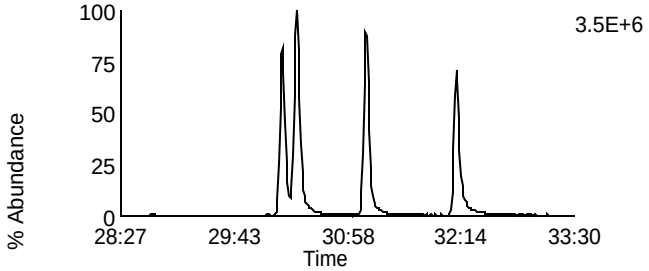
SAMP 10260486003-MSD - BAL PASI-WI



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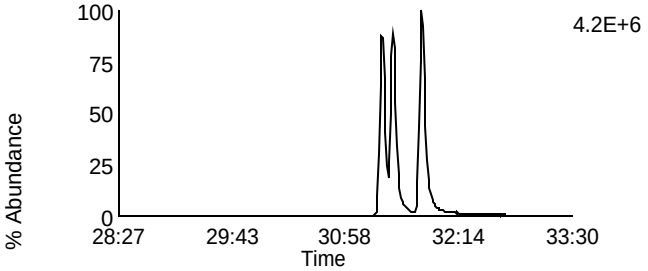
SAMP 10260486003-MSD - BAL PASI-WI



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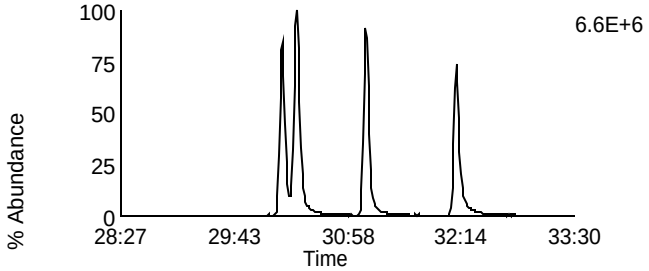
SAMP 10260486003-MSD - BAL PASI-WI



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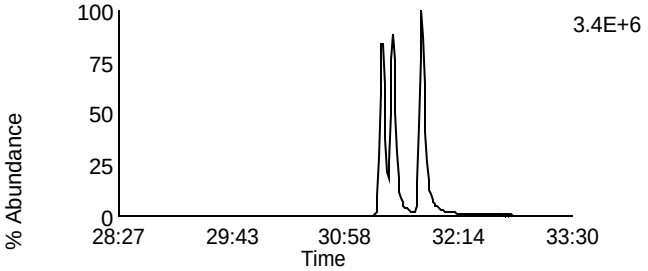
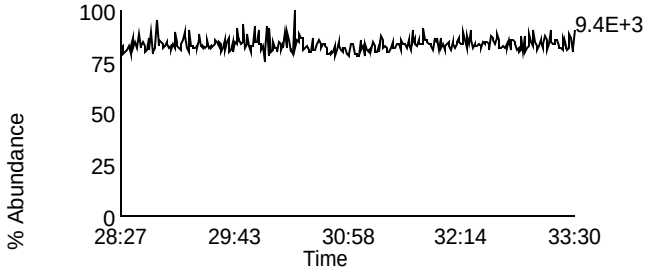
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G3 C11 - 445.7555
SAMP 10260486003-MSD - BAL PASI-WI



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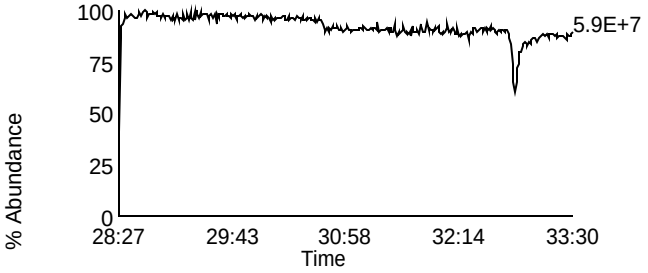
SAMP 10260486003-MSD - BAL PASI-WI

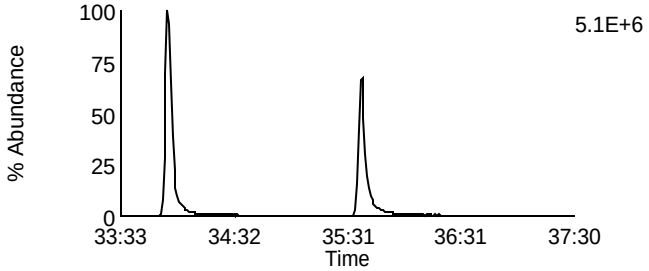


Homologue Group: Heptas

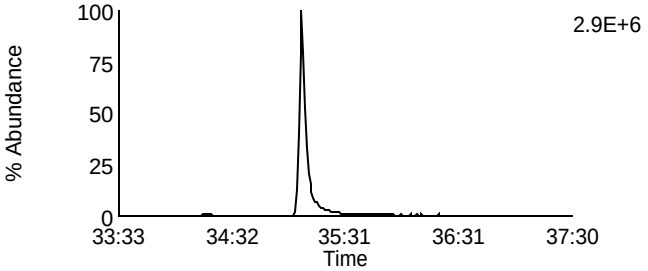
Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

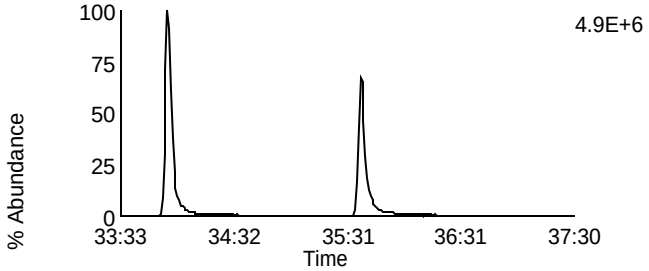
Data File: P140322B_11 G4 C3 - 407.7818
SAMP 10260486003-MSD - BAL PASI-WI



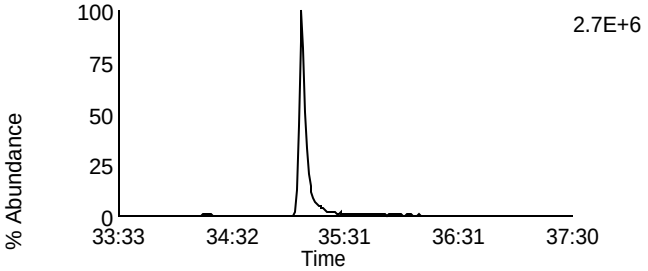
Data File: P140322B_11 G4 C8 - 423.7767
SAMP 10260486003-MSD - BAL PASI-WI



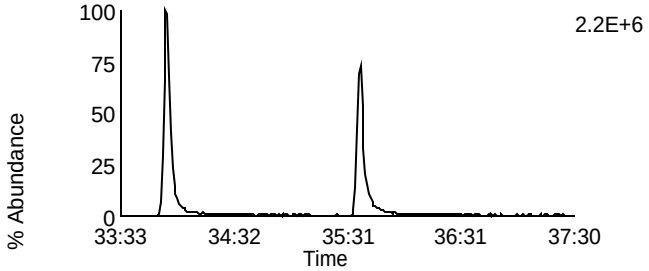
Data File: P140322B_11 G4 C4 - 409.7788
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G4 C9 - 425.7737
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G4 C6 - 417.825
SAMP 10260486003-MSD - BAL PASI-WI



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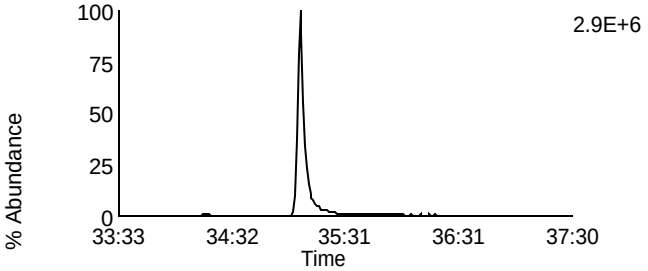
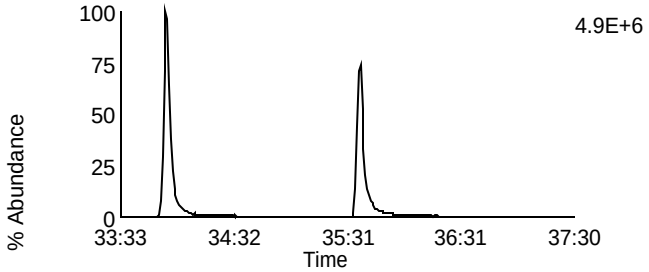
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G4 C7 - 419.822
SAMP 10260486003-MSD - BAL PASI-WI



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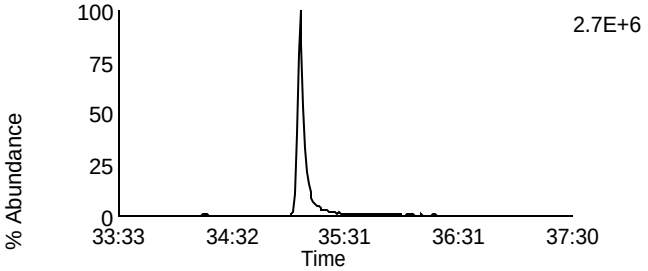
SAMP 10260486003-MSD - BAL PASI-WI



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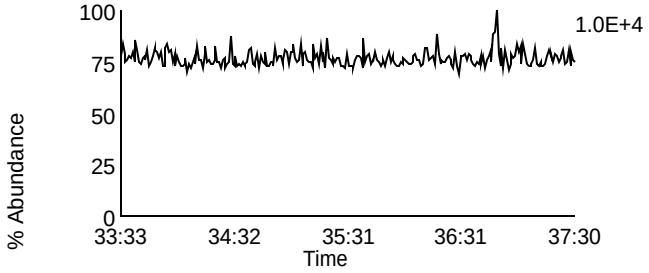
SAMP 10260486003-MSD - BAL PASI-WI



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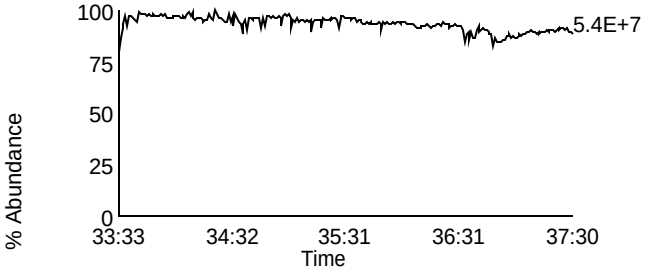
SAMP 10260486003-MSD - BAL PASI-WI

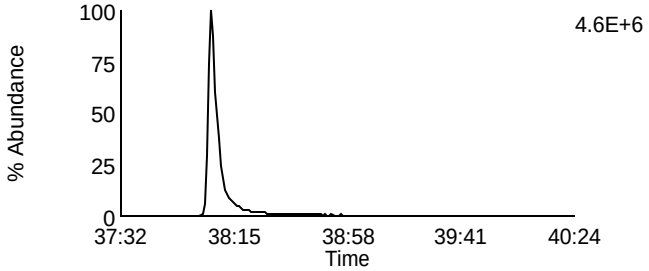


Homologue Group: Octas

Data File Name: P140322B_11
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486003-MSD - BAL PASI-WI

Lab Sample ID: 10260486003-MSD
Client Sample ID: MAK114C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_11 G5 C4 - 441.7428
SAMP 10260486003-MSD - BAL PASI-WI



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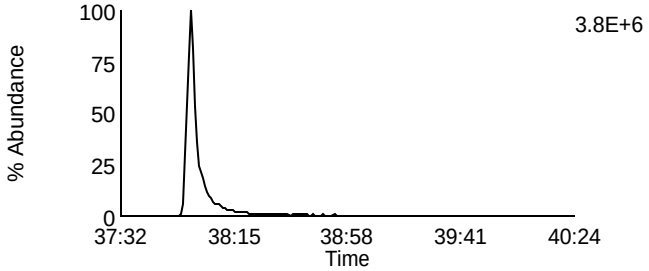
SAMP 10260486003-MSD - BAL PASI-WI



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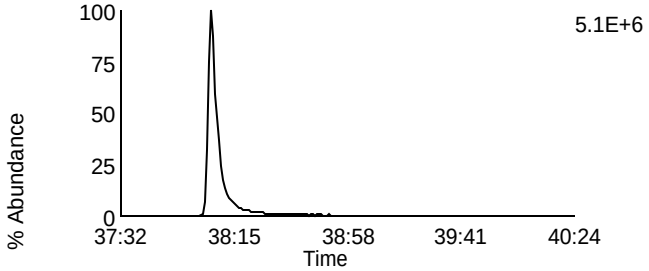
SAMP 10260486003-MSD - BAL PASI-WI



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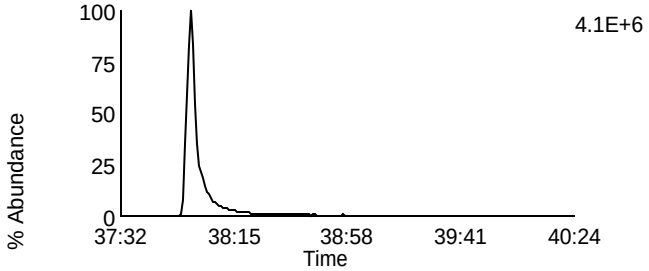
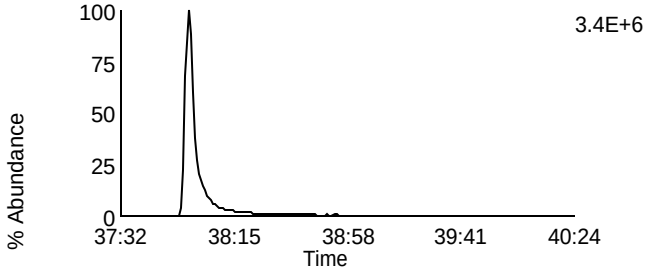
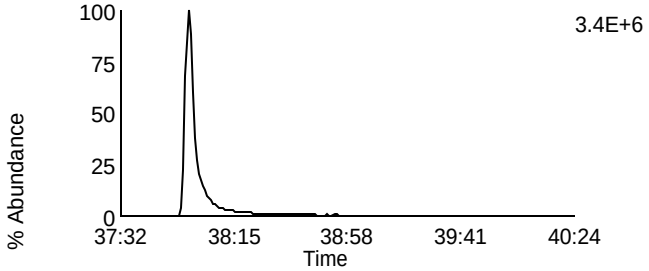
SAMP 10260486003-MSD - BAL PASI-WI



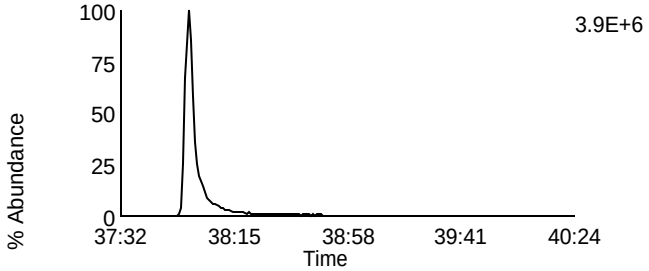
Data File: P140322B_11 G5 C11 - 469.7779
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G5 C11 - 469.7779
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G5 C12 - 471.7749
SAMP 10260486003-MSD - BAL PASI-WI



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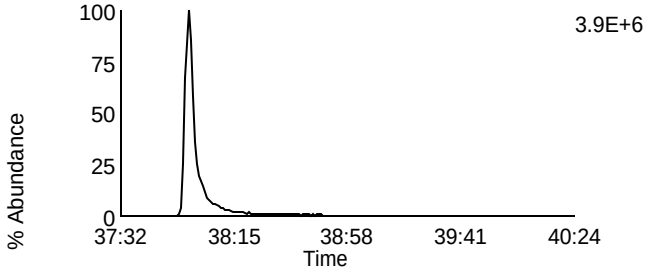

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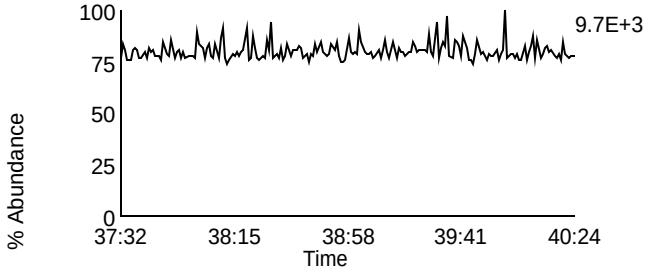
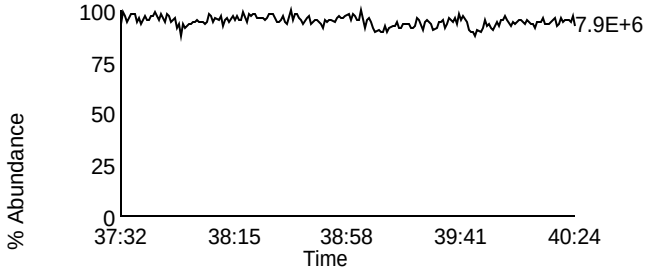
SAMP 10260486003-MSD - BAL PASI-WI



Data File: P140322B_11 G5 C2 - 430.9728
SAMP 10260486003-MSD - BAL PASI-WI

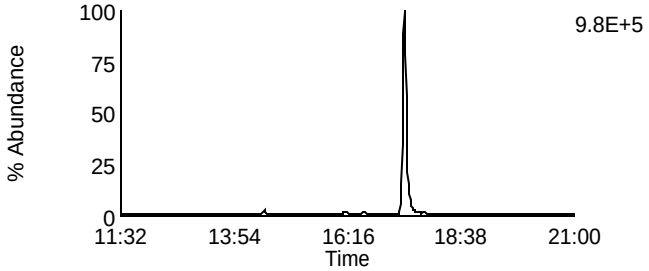


Homologue Group: Tetras

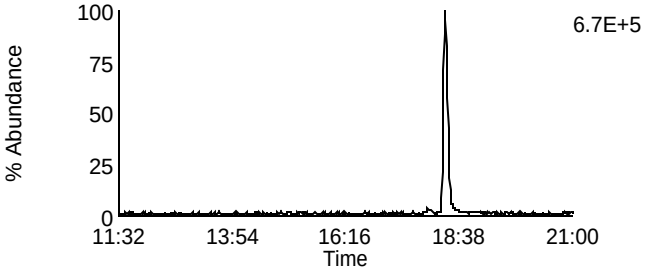
Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

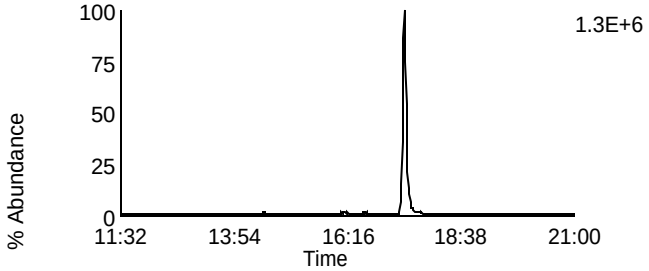
Data File: P140322B_12 G1 C1 - 303.9016
SAMP 10260486008-MS - BAL PASI-WI



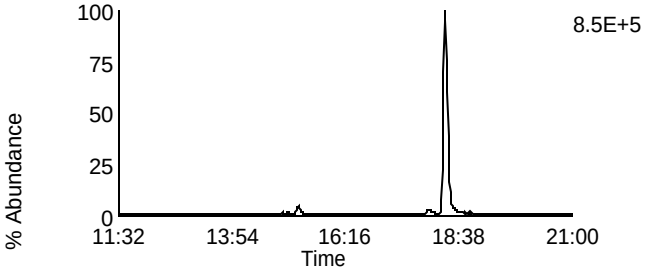
Data File: P140322B_12 G1 C7 - 319.8965
SAMP 10260486008-MS - BAL PASI-WI



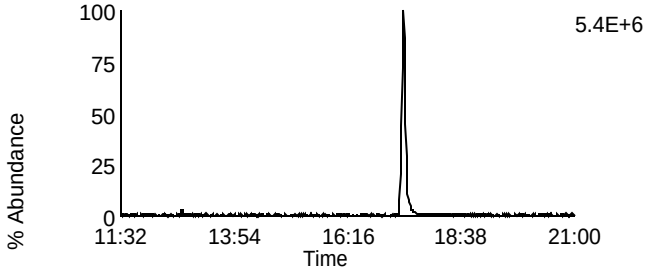
Data File: P140322B_12 G1 C2 - 305.8987
SAMP 10260486008-MS - BAL PASI-WI



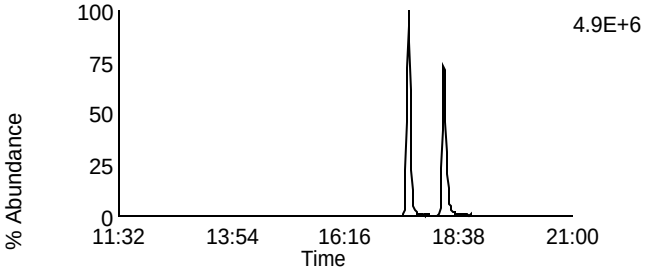
Data File: P140322B_12 G1 C8 - 321.8936
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C3 - 315.9418
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C10 - 331.9367
SAMP 10260486008-MS - BAL PASI-WI



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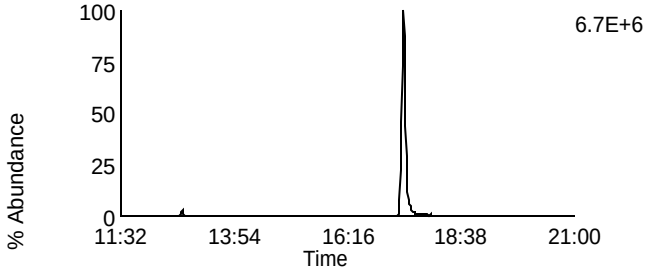
SAMP 10260486008-MS - BAL PASI-WI



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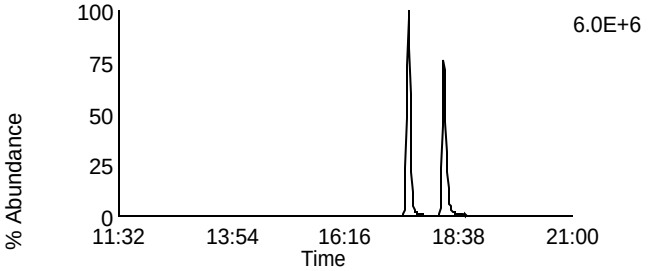
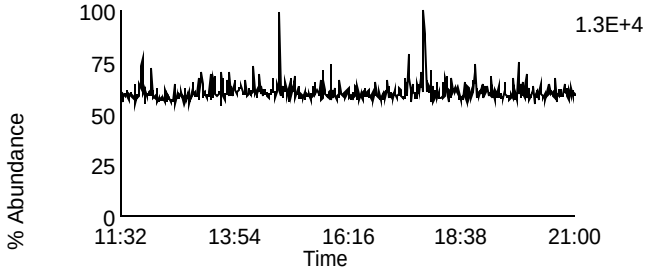
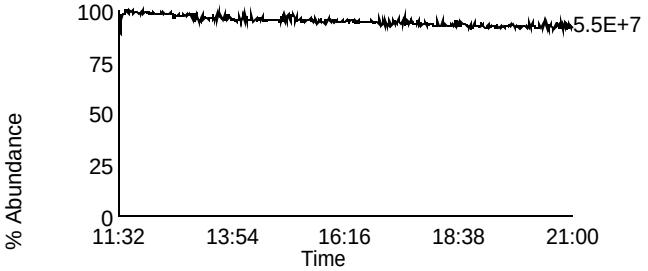
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C14 - 375.8364
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C5 - 318.9792
SAMP 10260486008-MS - BAL PASI-WI

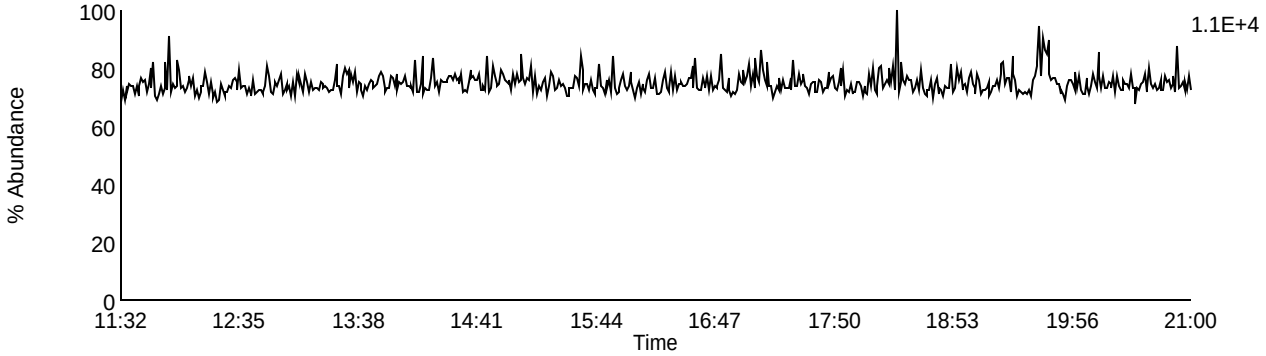


Homologue Group: Penta & Cleanup

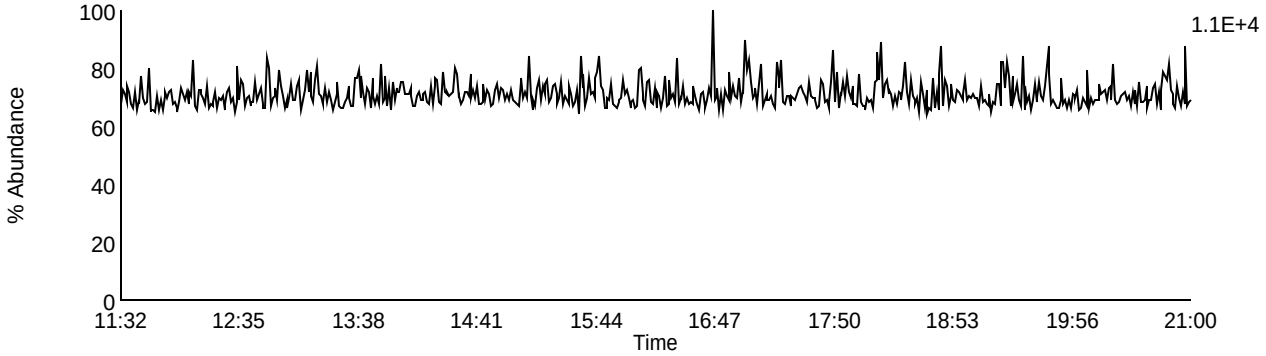
Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

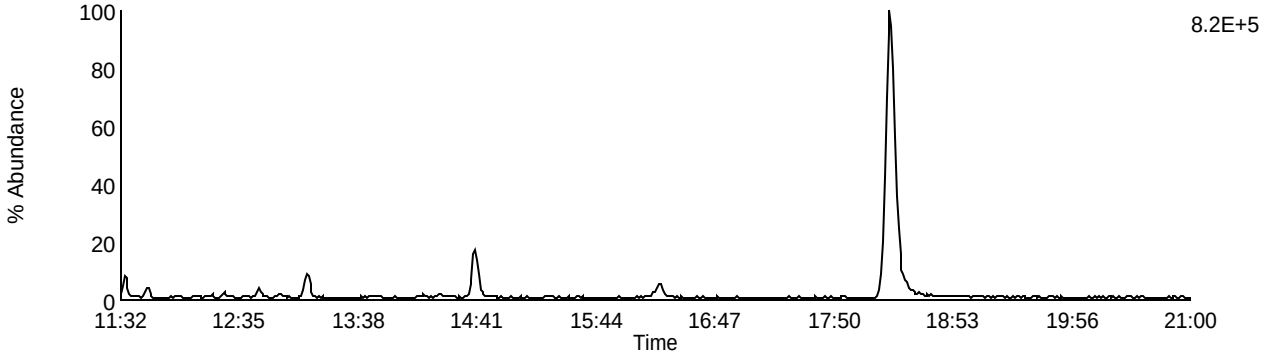
Data File: P140322B_12 G1 C12 - 339.8597
SAMP 10260486008-MS - BAL PASI-WI



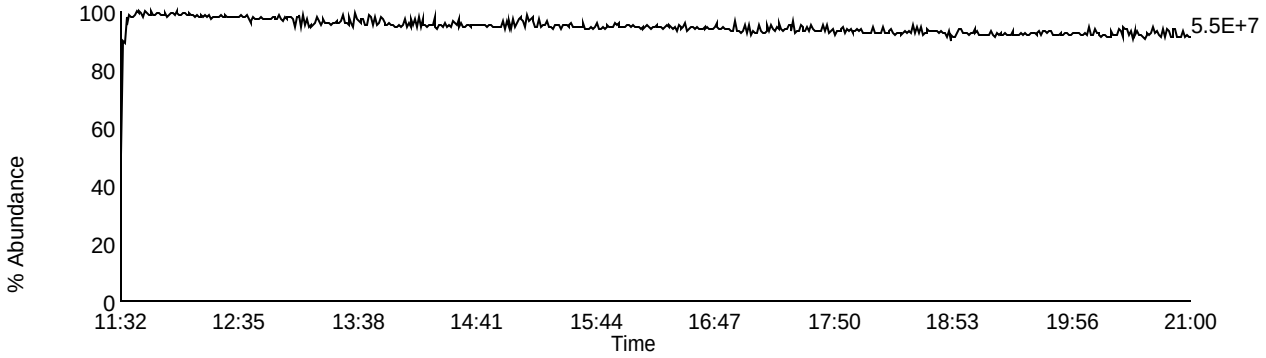
Data File: P140322B_12 G1 C13 - 341.8567
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C9 - 327.8847
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G1 C5 - 318.9792
SAMP 10260486008-MS - BAL PASI-WI

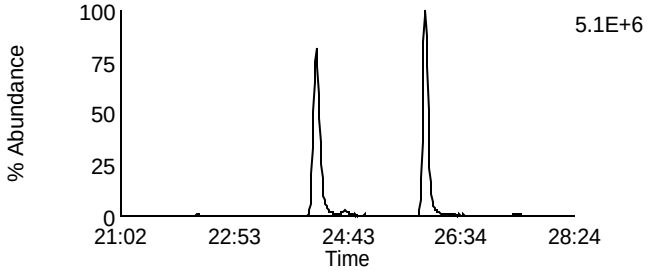


Homologue Group: Pentas

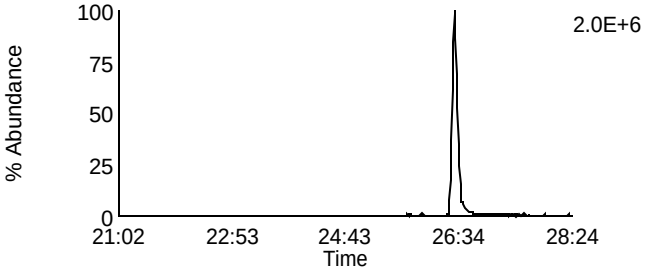
Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

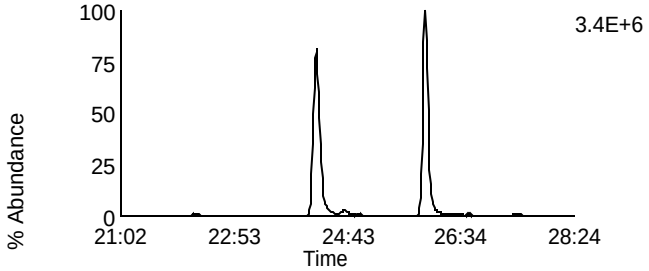
Data File: P140322B_12 G2 C1 - 339.8597
SAMP 10260486008-MS - BAL PASI-WI



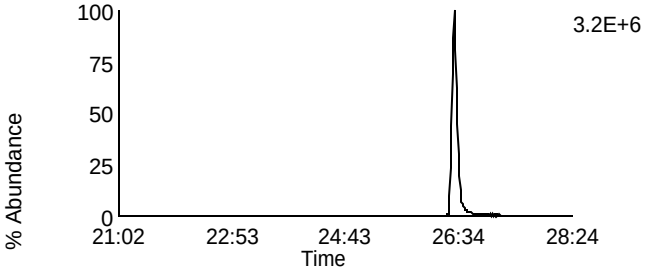
Data File: P140322B_12 G2 C4 - 353.8576
SAMP 10260486008-MS - BAL PASI-WI



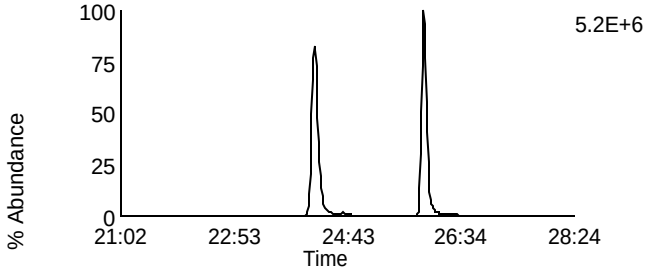
Data File: P140322B_12 G2 C2 - 341.8567
SAMP 10260486008-MS - BAL PASI-WI



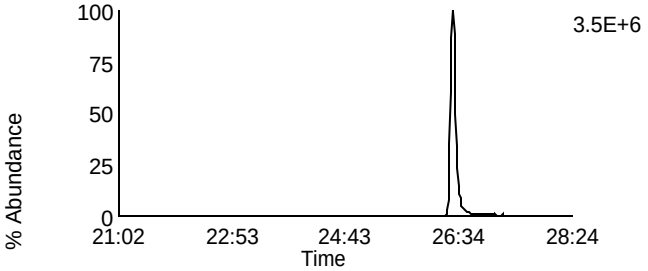
Data File: P140322B_12 G2 C8 - 355.8546
SAMP 10260486008-MS - BAL PASI-WI



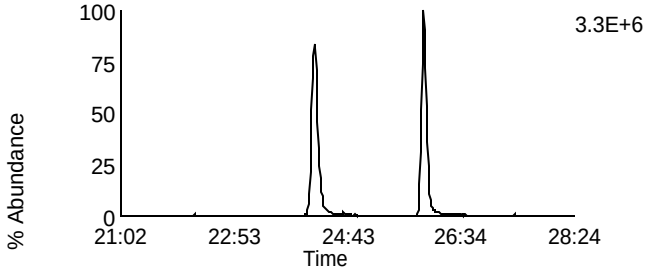
Data File: P140322B_12 G2 C3 - 351.8999
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G2 C10 - 367.8948
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G2 C5 - 353.8969
SAMP 10260486008-MS - BAL PASI-WI



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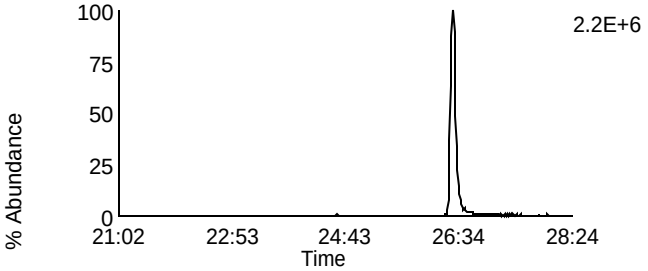
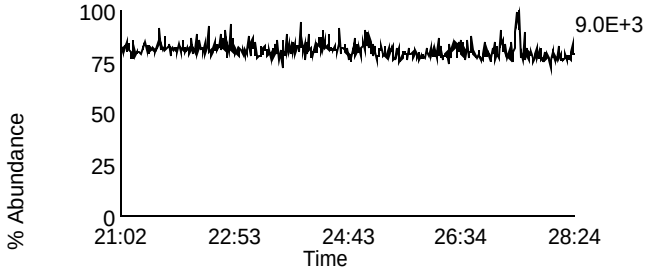
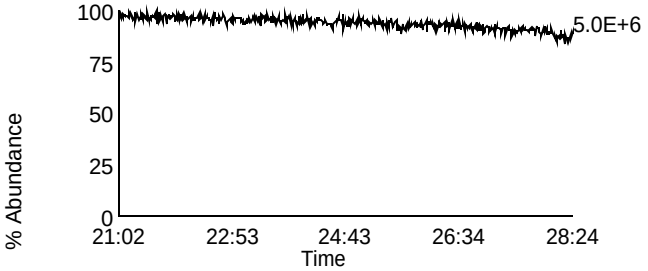
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G2 C12 - 409.7974
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G2 C6 - 354.9792
SAMP 10260486008-MS - BAL PASI-WI

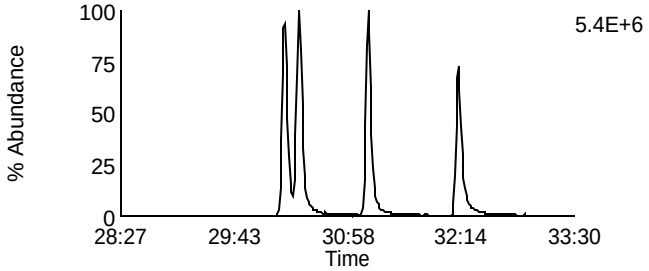


Homologue Group: Hexas

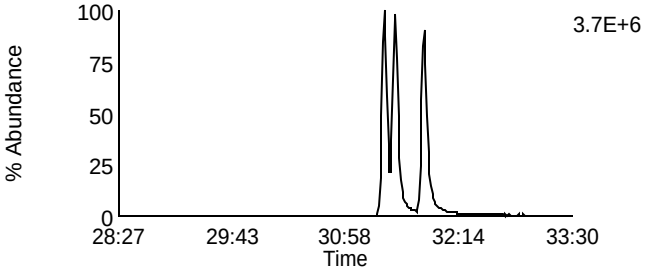
Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

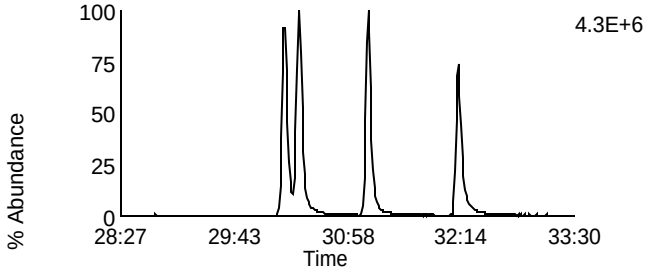
Data File: P140322B_12 G3 C1 - 373.8207
SAMP 10260486008-MS - BAL PASI-WI



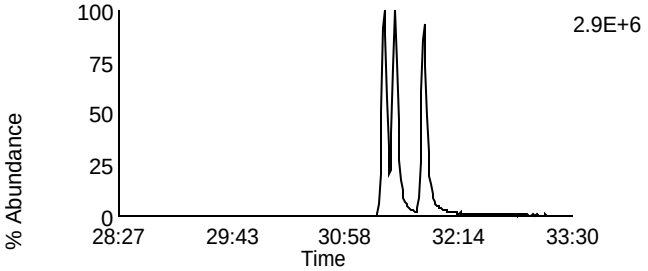
Data File: P140322B_12 G3 C7 - 389.8156
SAMP 10260486008-MS - BAL PASI-WI



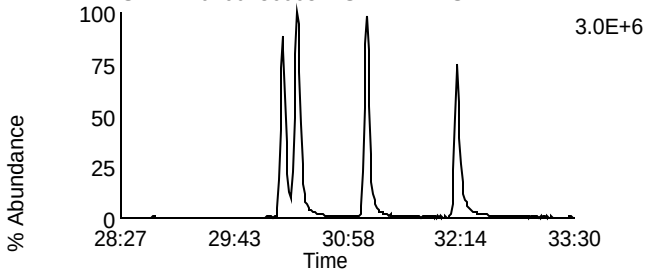
Data File: P140322B_12 G3 C2 - 375.8178
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G3 C8 - 391.8127
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G3 C5 - 383.8639
SAMP 10260486008-MS - BAL PASI-WI



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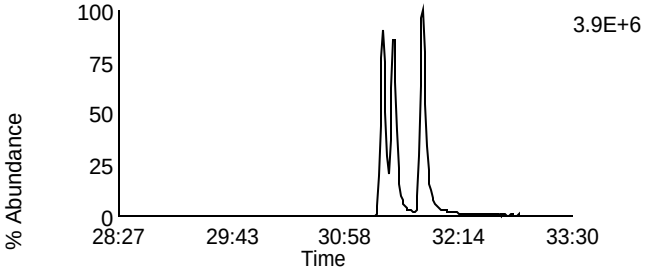
SAMP 10260486008-MS - BAL PASI-WI



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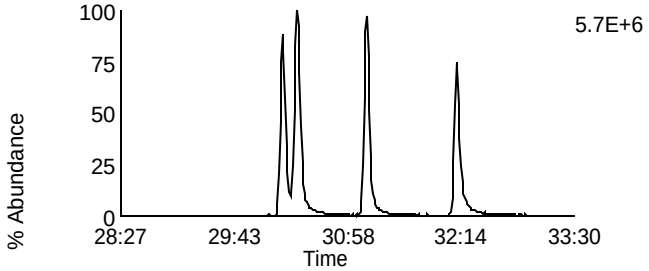
SAMP 10260486008-MS - BAL PASI-WI



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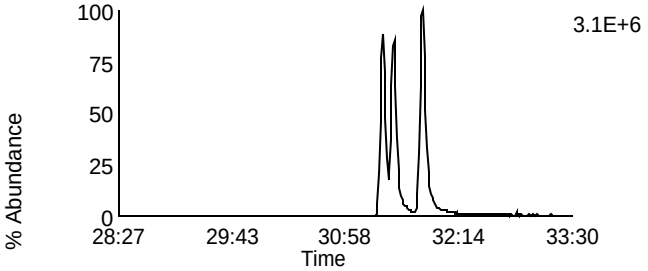
SAMP 10260486008-MS - BAL PASI-WI



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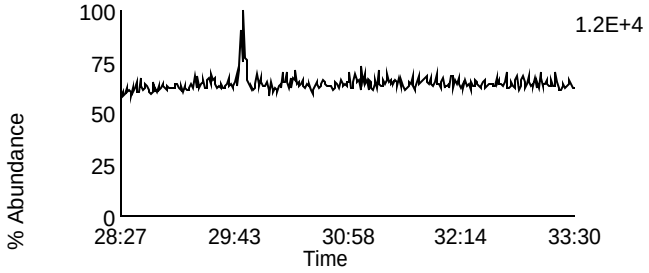
SAMP 10260486008-MS - BAL PASI-WI



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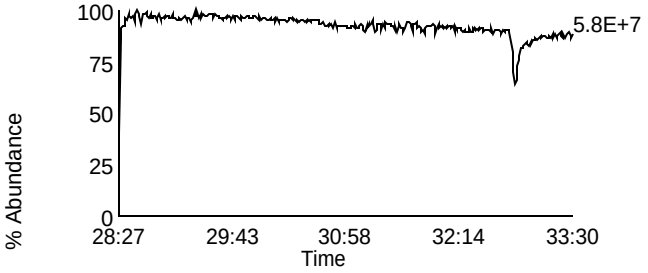
SAMP 10260486008-MS - BAL PASI-WI

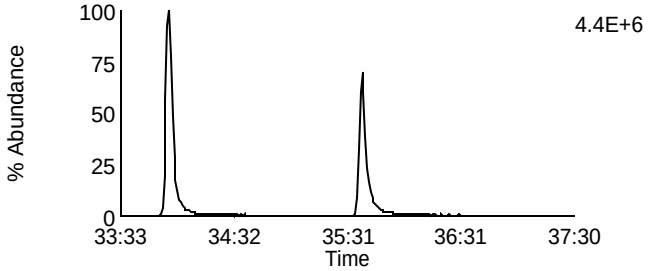


Homologue Group: Heptas

Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_12 G4 C3 - 407.7818
SAMP 10260486008-MS - BAL PASI-WI



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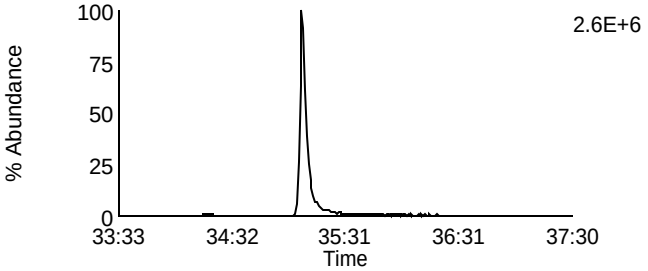
SAMP 10260486008-MS - BAL PASI-WI



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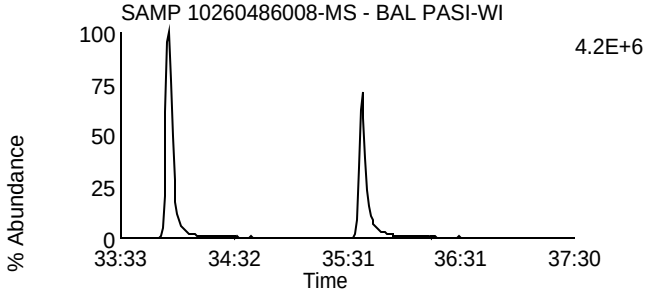
SAMP 10260486008-MS - BAL PASI-WI



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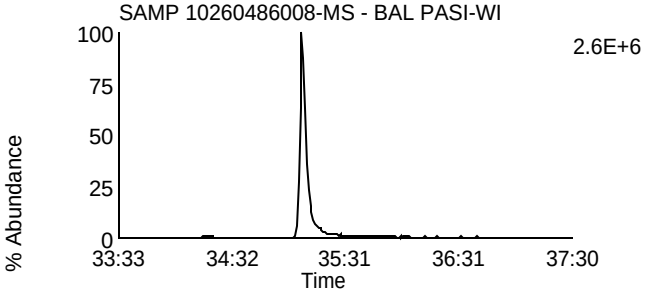
SAMP 10260486008-MS - BAL PASI-WI



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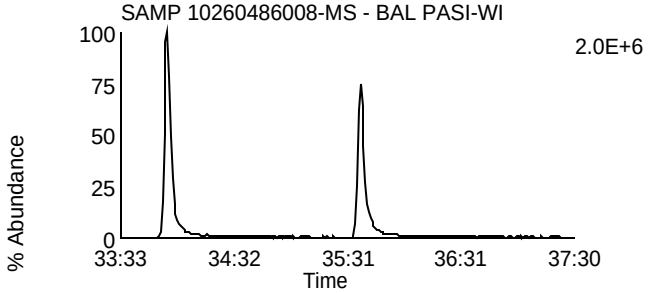
SAMP 10260486008-MS - BAL PASI-WI



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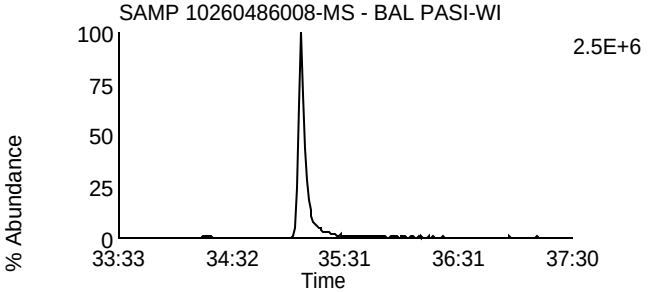
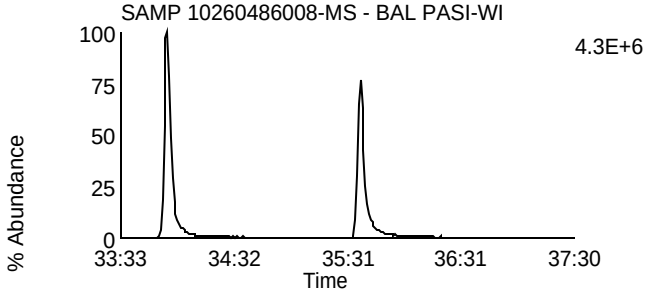
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G4 C7 - 419.822
SAMP 10260486008-MS - BAL PASI-WI



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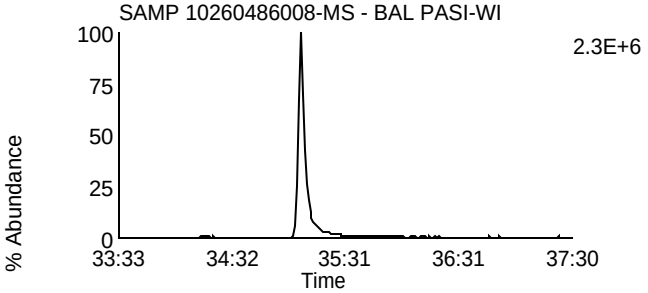
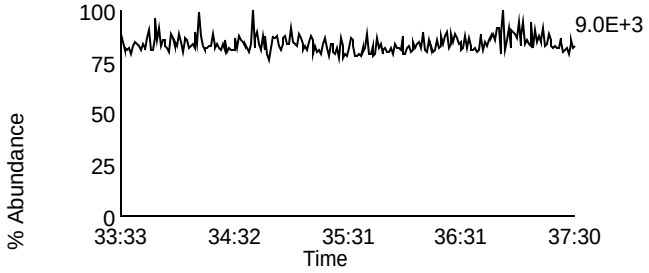
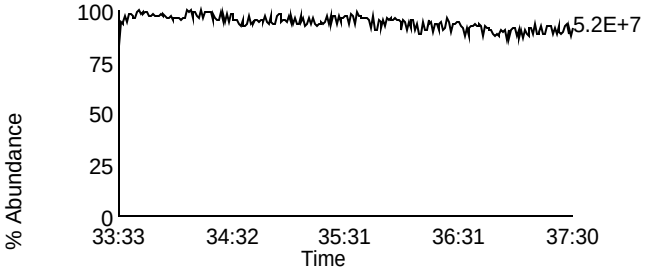
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G4 C13 - 479.7165
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G4 C1 - 380.976
SAMP 10260486008-MS - BAL PASI-WI

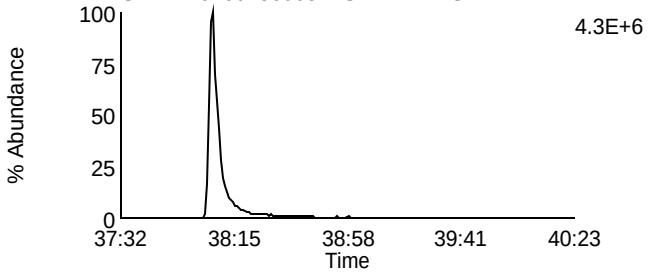


Homologue Group: Octas

Data File Name: P140322B_12
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MS - BAL PASI-WI

Lab Sample ID: 10260486008-MS
Client Sample ID: MAK120C-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_12 G5 C4 - 441.7428
SAMP 10260486008-MS - BAL PASI-WI



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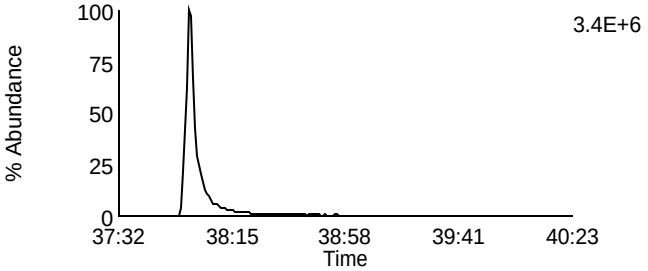
SAMP 10260486008-MS - BAL PASI-WI



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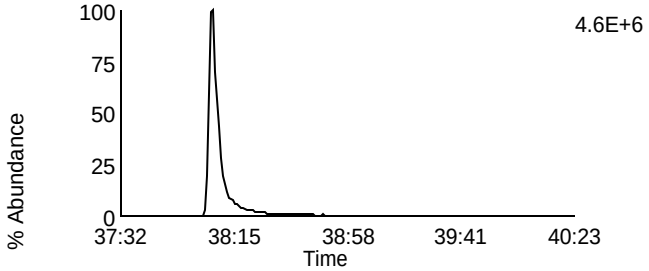
SAMP 10260486008-MS - BAL PASI-WI



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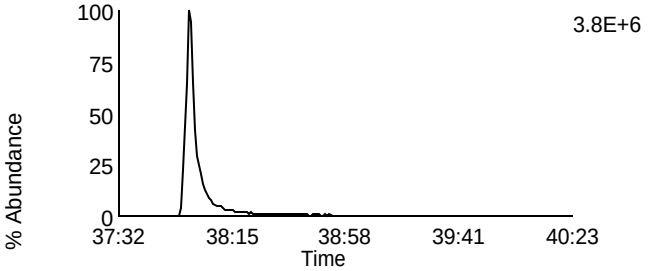
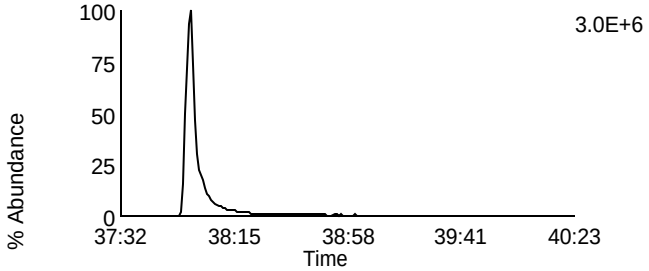
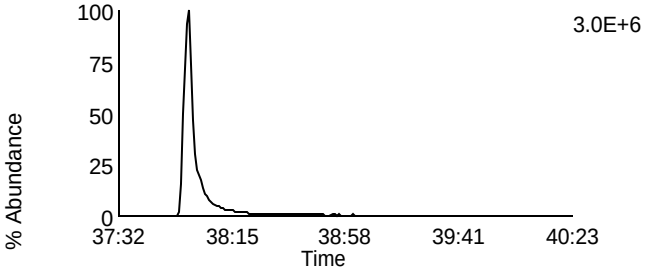
SAMP 10260486008-MS - BAL PASI-WI



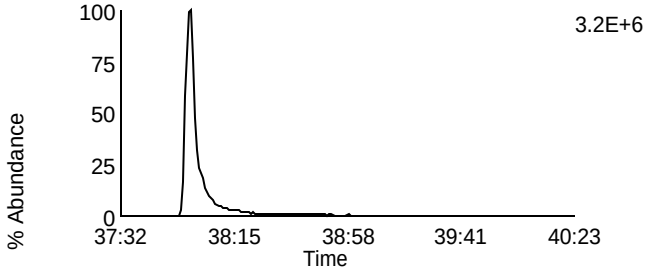
Data File: P140322B_12 G5 C11 - 469.7779
SAMP 10260486008-MS - BAL PASI-WI



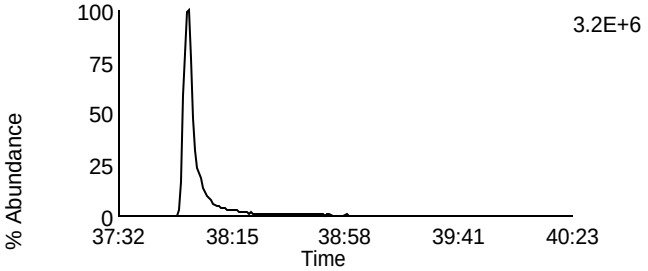
Data File: P140322B_12 G5 C11 - 469.7779
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G5 C12 - 471.7749
SAMP 10260486008-MS - BAL PASI-WI



Data File: P140322B_12 G5 C12 - 471.7749
SAMP 10260486008-MS - BAL PASI-WI



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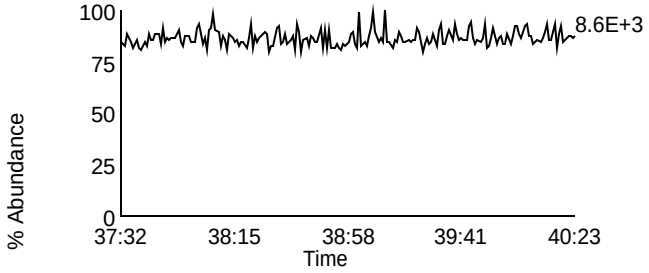
SAMP 10260486008-MS - BAL PASI-WI



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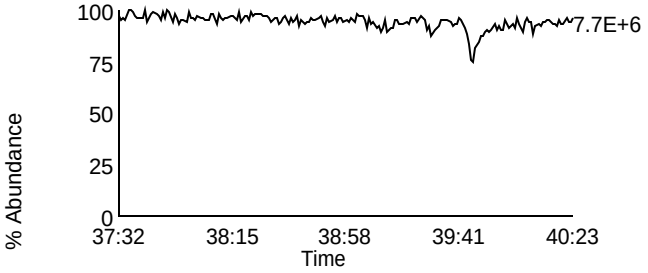
SAMP 10260486008-MS - BAL PASI-WI

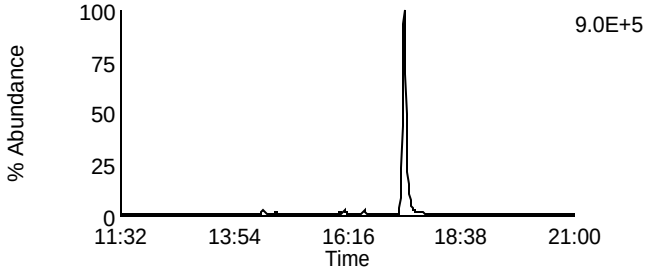


Homologue Group: Tetras

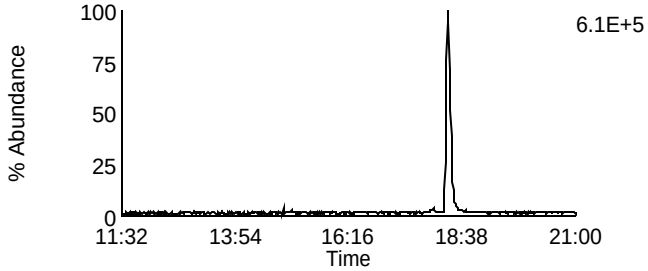
Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G1 C1 - 303.9016
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C7 - 319.8965
SAMP 10260486008-MSD - BAL PASI-WI



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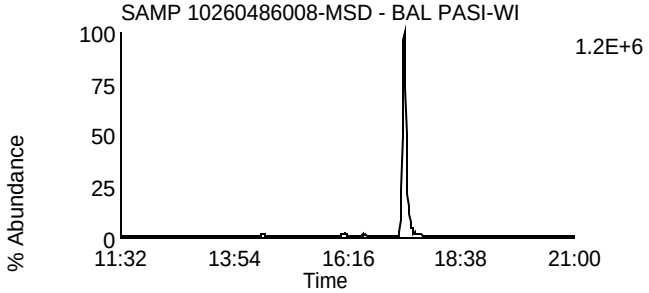
SAMP 10260486008-MSD - BAL PASI-WI



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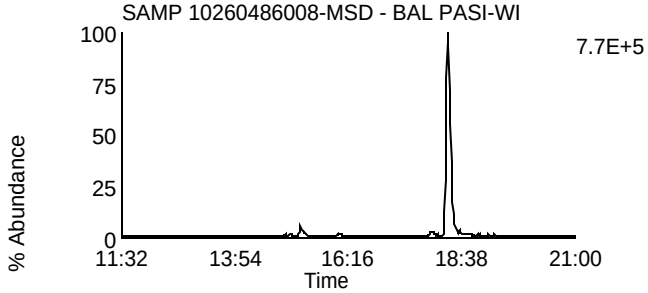
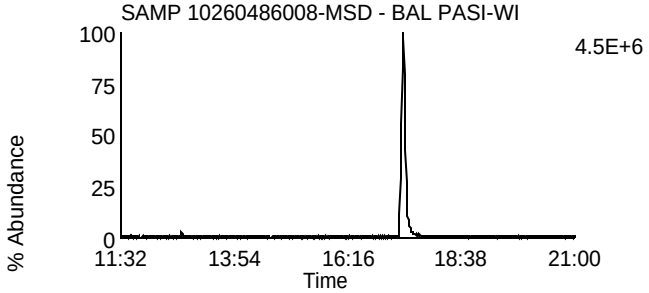
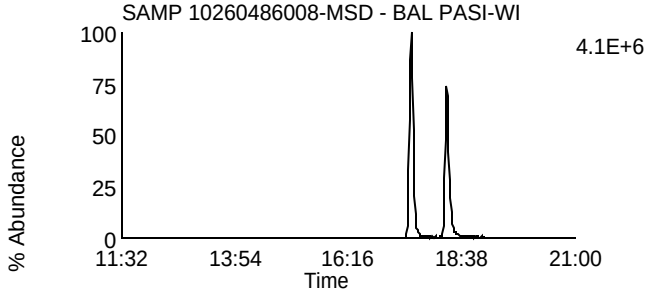
SAMP 10260486008-MSD - BAL PASI-WI



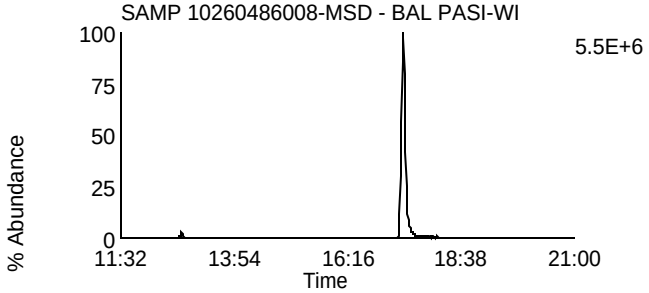
Data File: P140322B_13 G1 C3 - 315.9418
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C10 - 331.9367
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C4 - 317.9389
SAMP 10260486008-MSD - BAL PASI-WI



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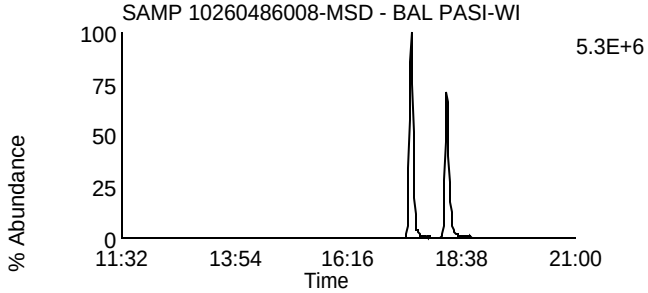
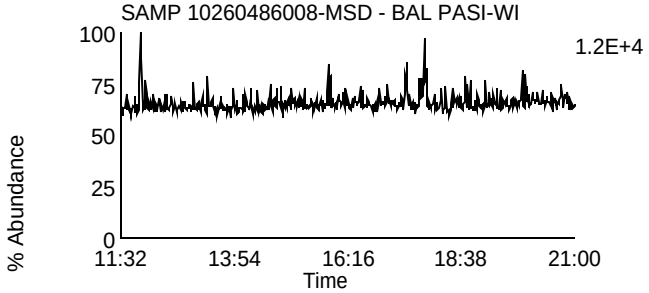
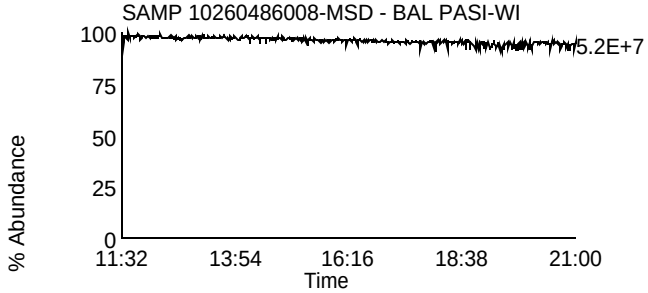
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C14 - 375.8364
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C5 - 318.9792
SAMP 10260486008-MSD - BAL PASI-WI

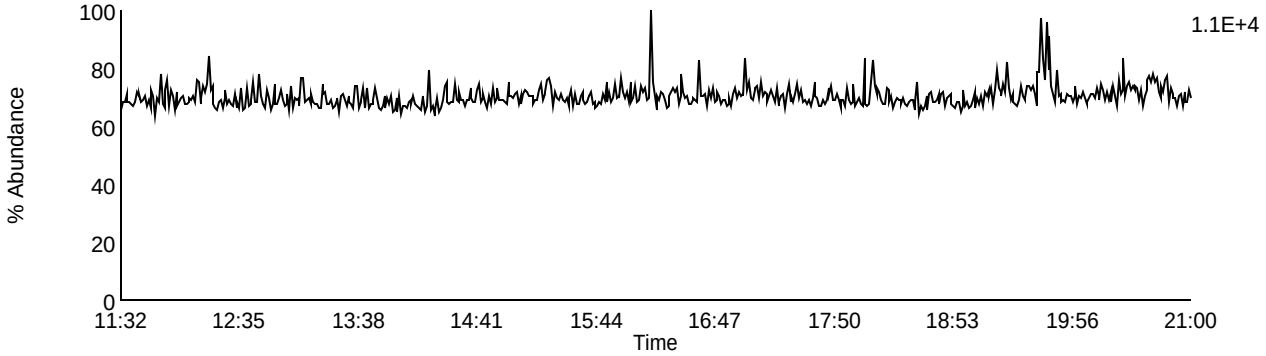


Homologue Group: Penta & Cleanup

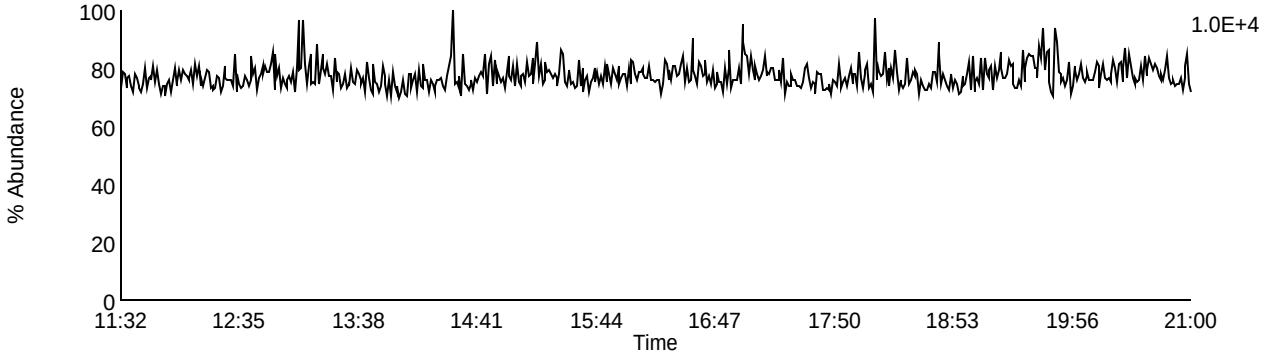
Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G1 C12 - 339.8597
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C13 - 341.8567
SAMP 10260486008-MSD - BAL PASI-WI



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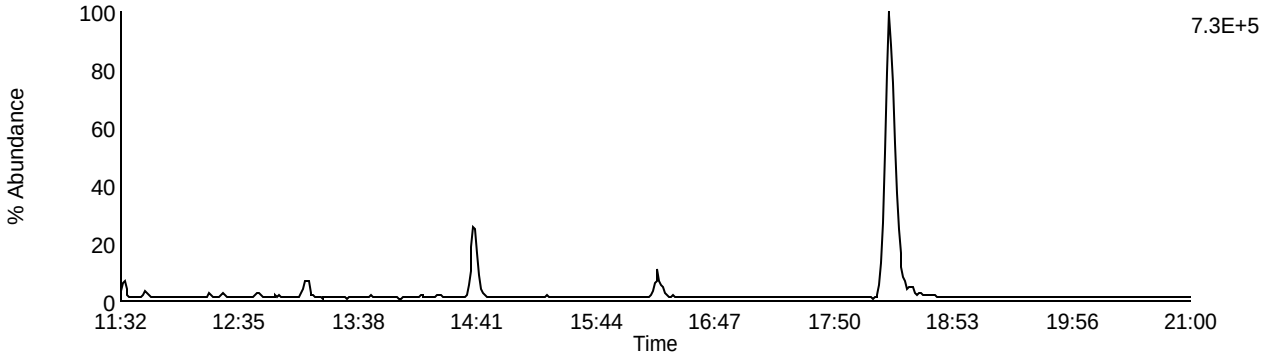
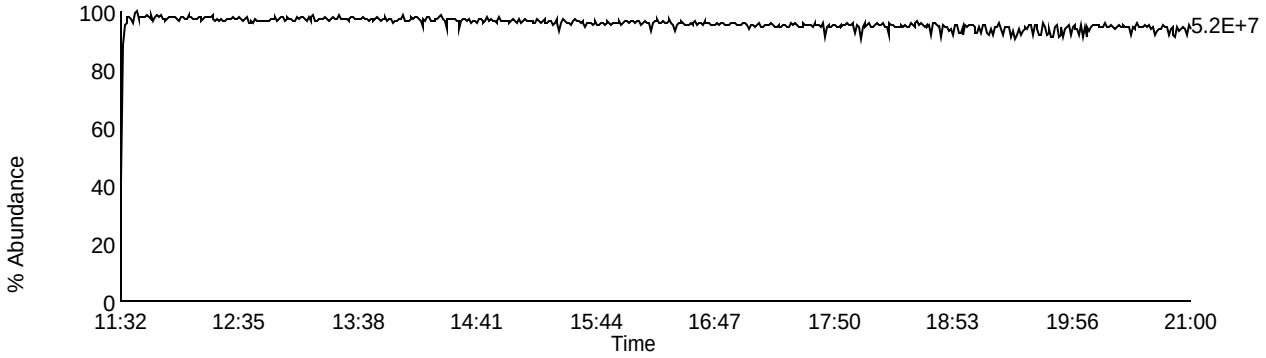
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G1 C5 - 318.9792
SAMP 10260486008-MSD - BAL PASI-WI

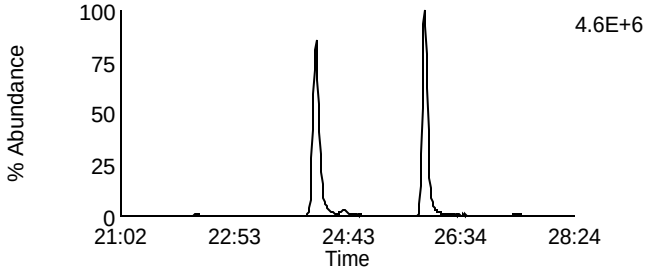


Homologue Group: Pentas

Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G2 C1 - 339.8597
SAMP 10260486008-MSD - BAL PASI-WI



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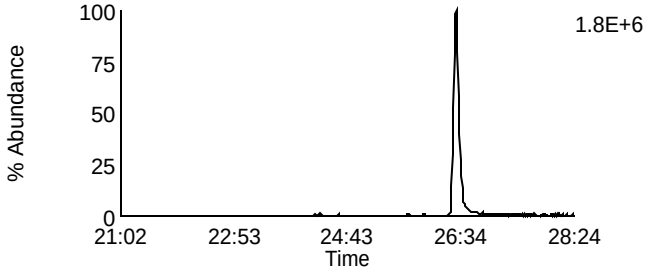
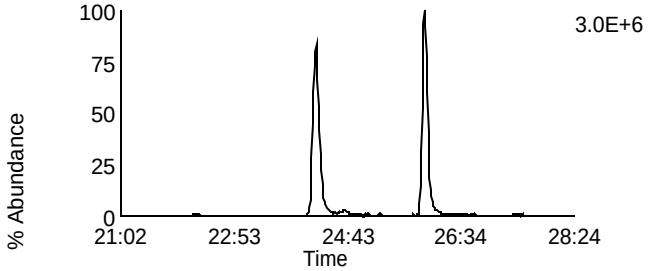
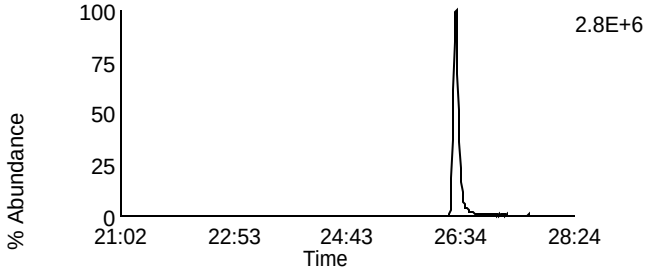
SAMP 10260486008-MSD - BAL PASI-WI



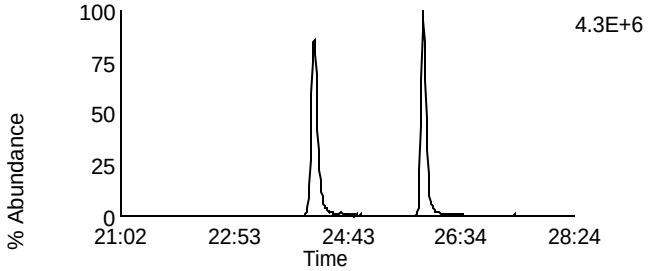
Data File: P140322B_13 G2 C2 - 341.8567
SAMP 10260486008-MSD - BAL PASI-WI



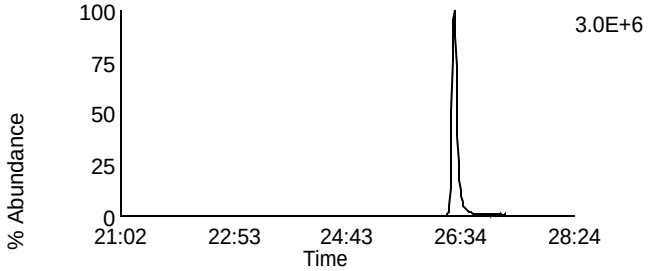
Data File: P140322B_13 G2 C8 - 355.8546
SAMP 10260486008-MSD - BAL PASI-WI



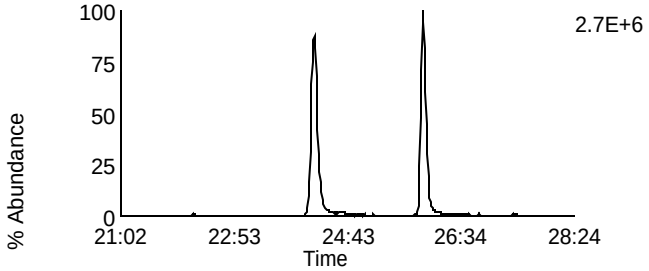
Data File: P140322B_13 G2 C3 - 351.8999
SAMP 10260486008-MSD - BAL PASI-WI



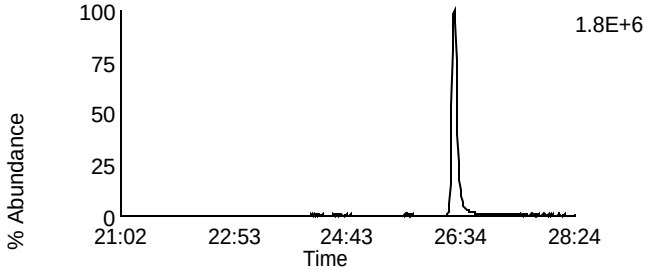
Data File: P140322B_13 G2 C10 - 367.8948
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G2 C5 - 353.8969
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G2 C11 - 369.8918
SAMP 10260486008-MSD - BAL PASI-WI



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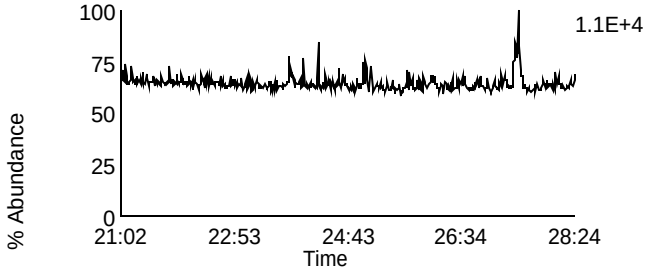
SAMP 10260486008-MSD - BAL PASI-WI



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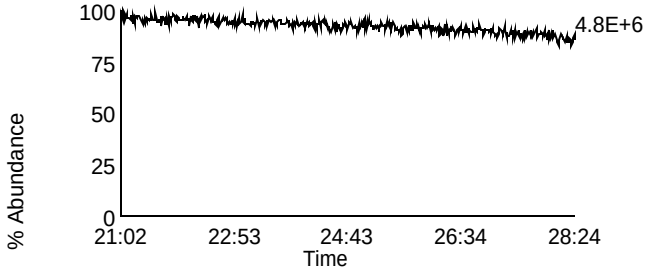
SAMP 10260486008-MSD - BAL PASI-WI

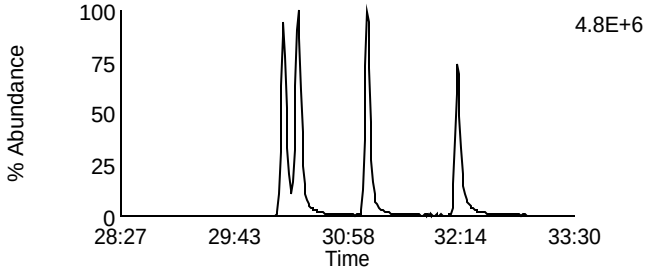


Homologue Group: Hexas

Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G3 C1 - 373.8207
SAMP 10260486008-MSD - BAL PASI-WI



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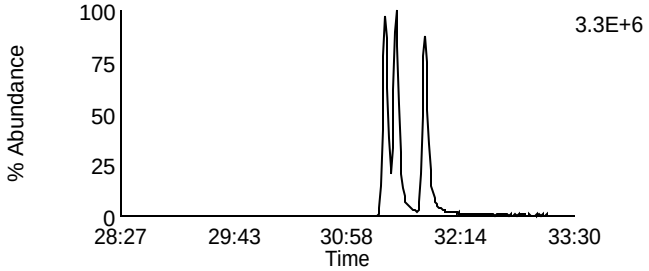

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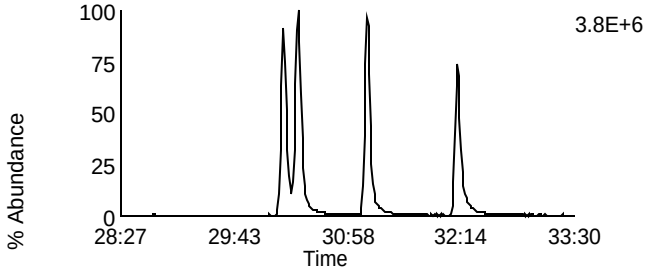
SAMP 10260486008-MSD - BAL PASI-WI



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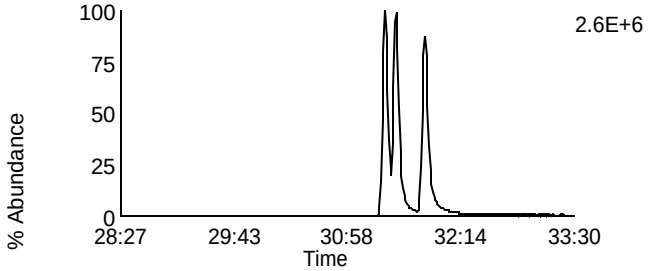
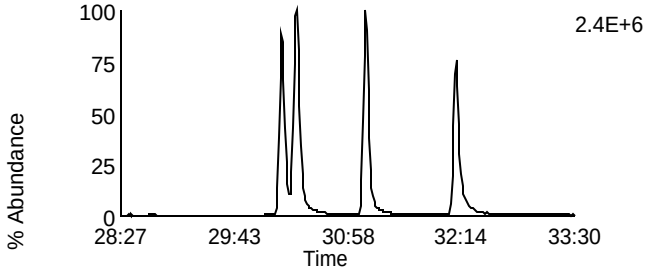
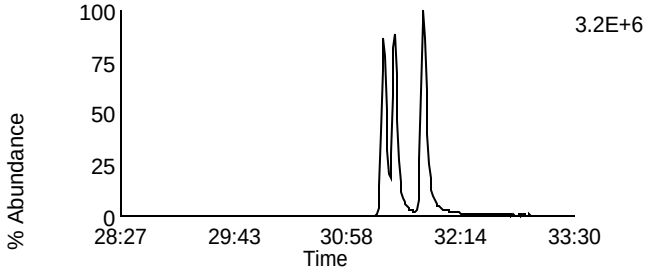
SAMP 10260486008-MSD - BAL PASI-WI



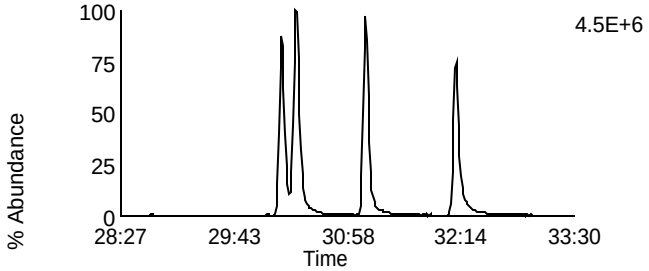
Data File: P140322B_13 G3 C5 - 383.8639
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G3 C9 - 401.8559
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G3 C6 - 385.861
SAMP 10260486008-MSD - BAL PASI-WI



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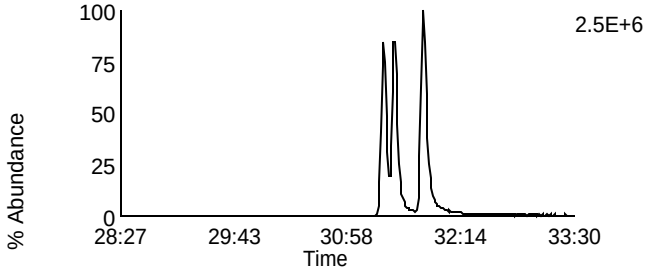
SAMP 10260486008-MSD - BAL PASI-WI



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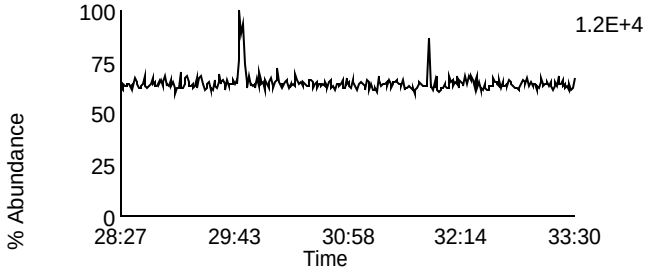
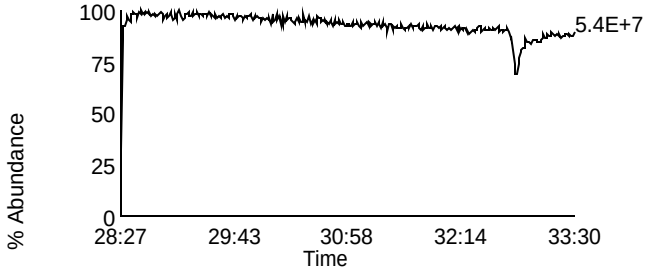


Data File: P140322B_13 G3 C3 - 380.976
SAMP 10260486008-MSD - BAL PASI-WI

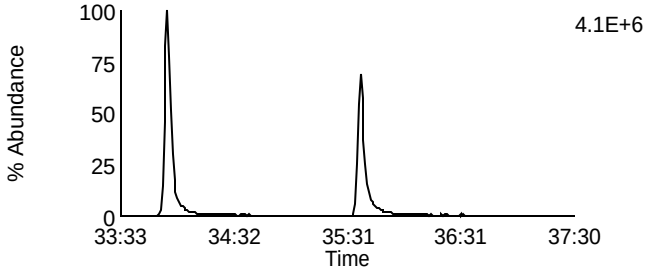


Homologue Group: Heptas

Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G4 C3 - 407.7818
SAMP 10260486008-MSD - BAL PASI-WI



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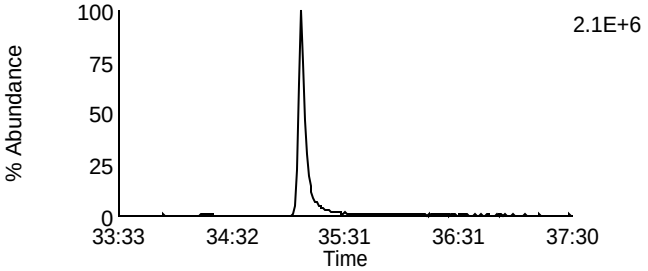
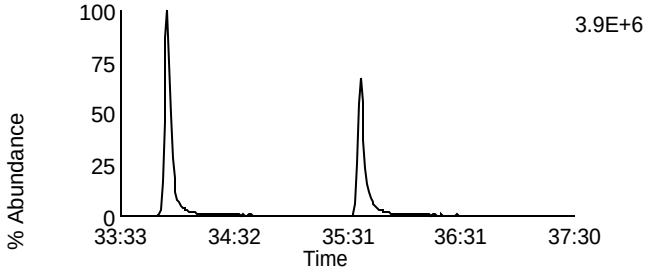
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G4 C4 - 409.7788
SAMP 10260486008-MSD - BAL PASI-WI



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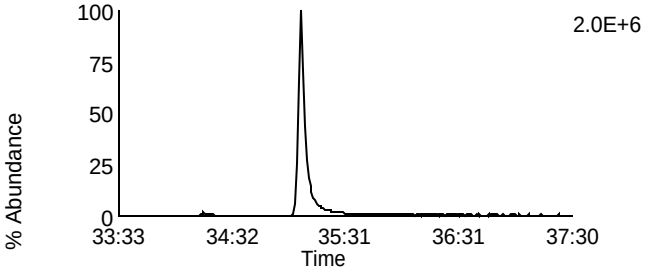
SAMP 10260486008-MSD - BAL PASI-WI



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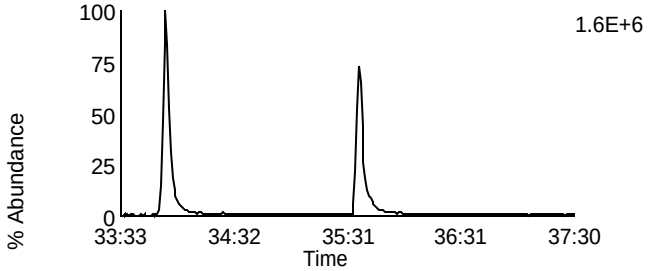
SAMP 10260486008-MSD - BAL PASI-WI



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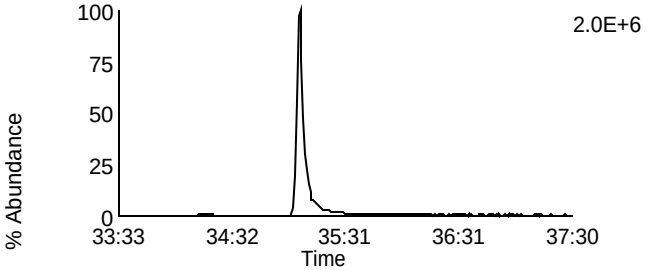
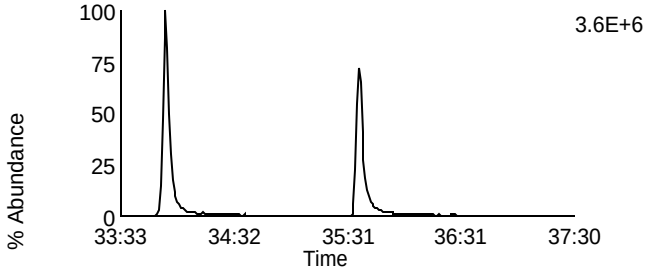
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G4 C7 - 419.822
SAMP 10260486008-MSD - BAL PASI-WI



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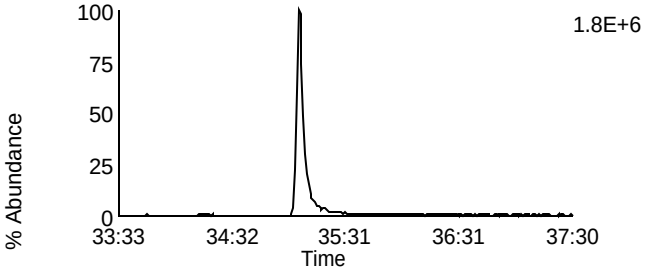
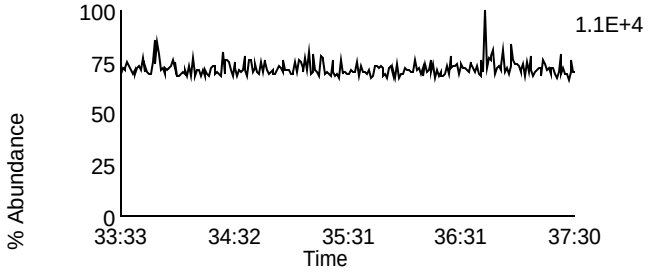
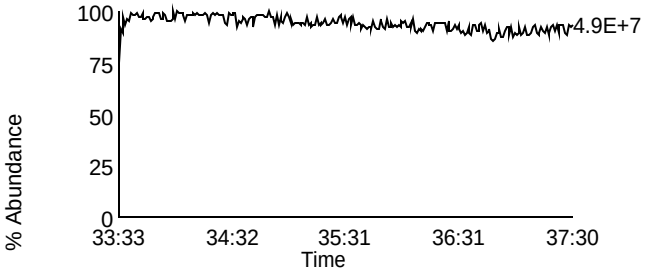
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G4 C13 - 479.7165
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G4 C1 - 380.976
SAMP 10260486008-MSD - BAL PASI-WI

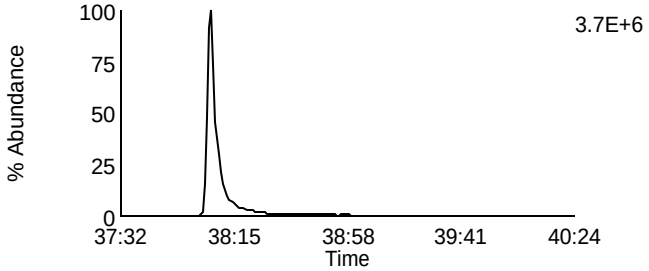


Homologue Group: Octas

Data File Name: P140322B_13
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486008-MSD - BAL PASI-WI

Lab Sample ID: 10260486008-MSD
Client Sample ID: MAK120C-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_13 G5 C4 - 441.7428
SAMP 10260486008-MSD - BAL PASI-WI



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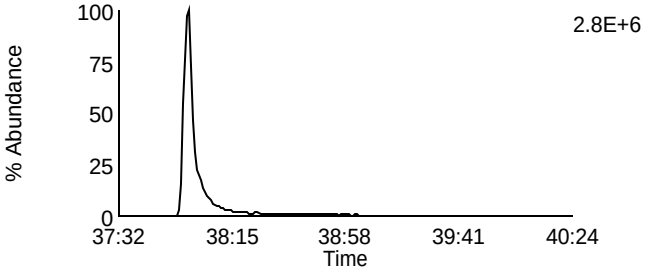
SAMP 10260486008-MSD - BAL PASI-WI



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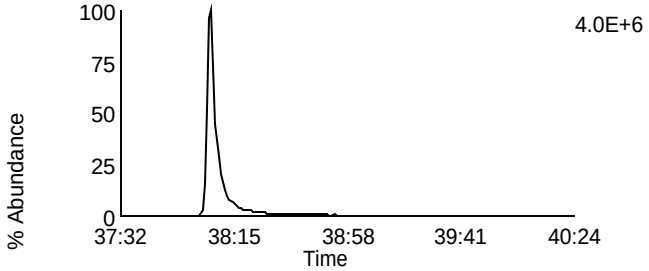
SAMP 10260486008-MSD - BAL PASI-WI



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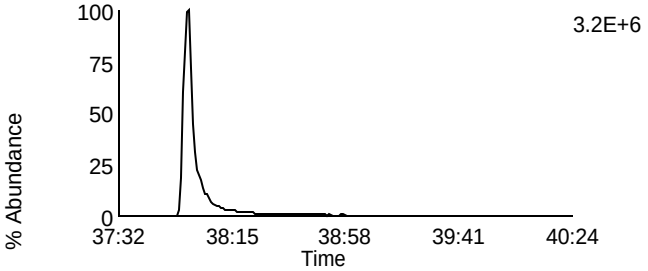
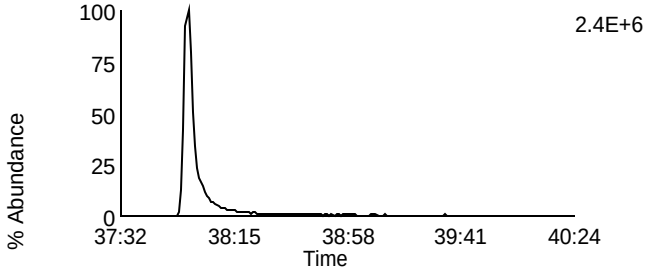
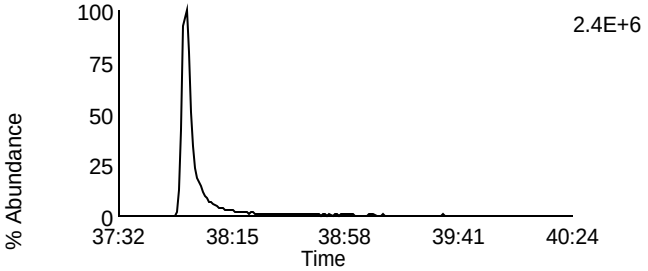
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G5 C11 - 469.7779
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G5 C11 - 469.7779
SAMP 10260486008-MSD - BAL PASI-WI



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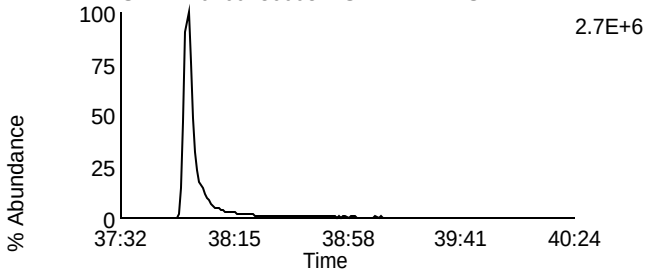
SAMP 10260486008-MSD - BAL PASI-WI



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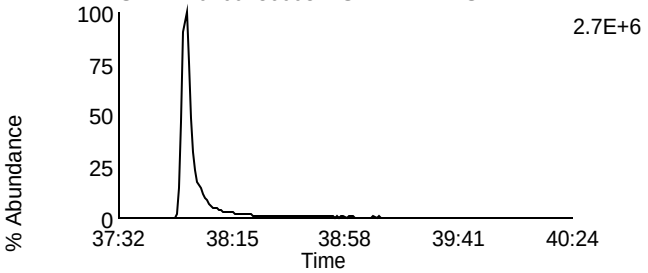
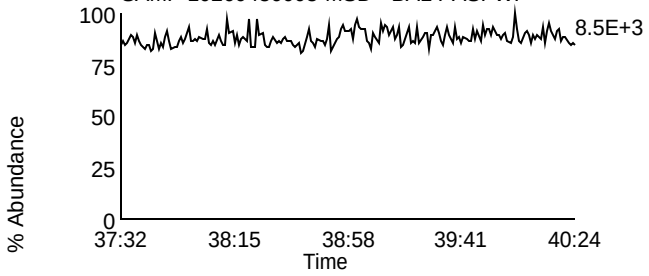
SAMP 10260486008-MSD - BAL PASI-WI



Data File: P140322B_13 G5 C13 - 513.6775
SAMP 10260486008-MSD - BAL PASI-WI



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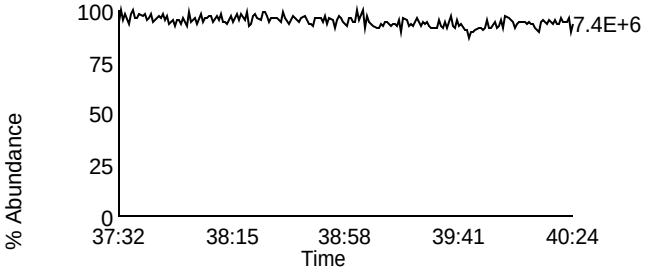
SAMP 10260486008-MSD - BAL PASI-WI

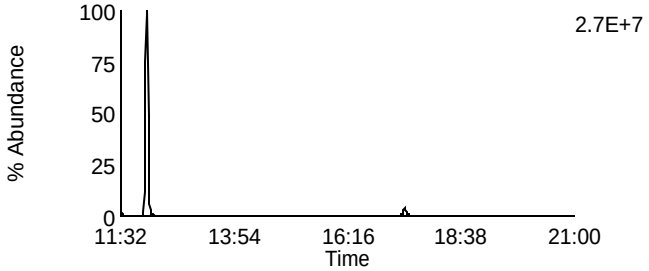


Homologue Group: Tetras

Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_14 G1 C1 - 303.9016
SAMP 10260486010-MS - BAL PASI-WI



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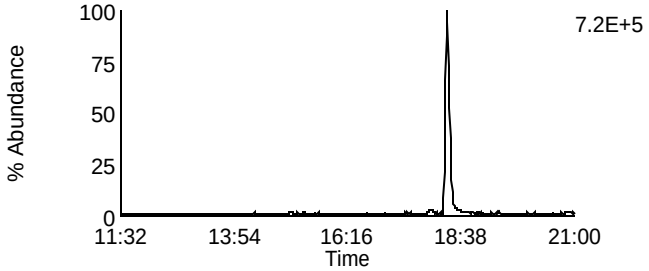
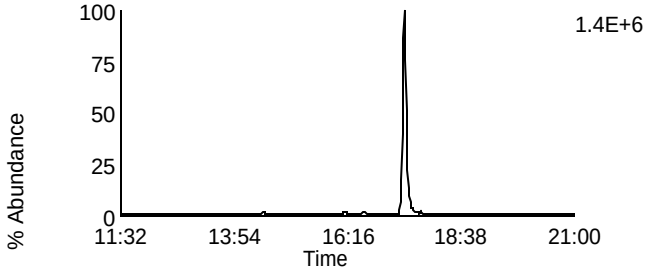
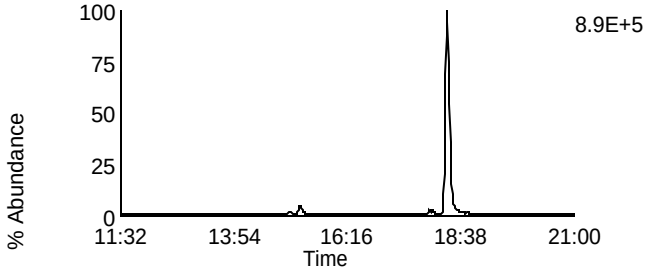
SAMP 10260486010-MS - BAL PASI-WI



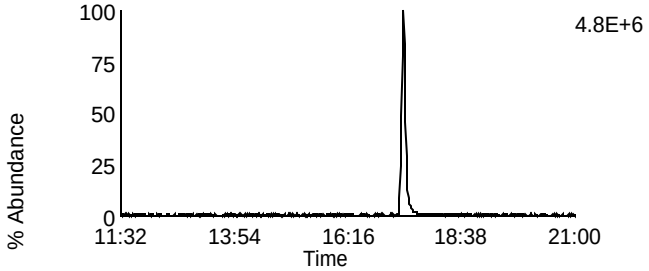
Data File: P140322B_14 G1 C2 - 305.8987
SAMP 10260486010-MS - BAL PASI-WI



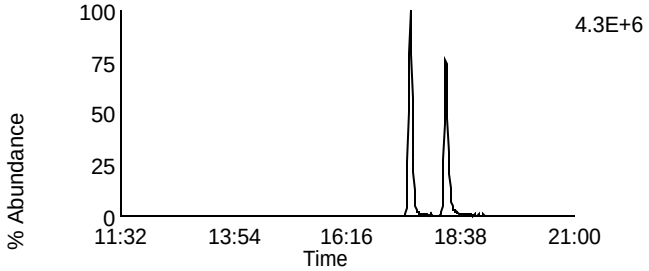
Data File: P140322B_14 G1 C8 - 321.8936
SAMP 10260486010-MS - BAL PASI-WI



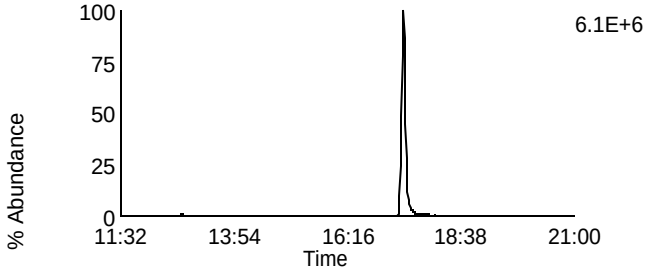
Data File: P140322B_14 G1 C3 - 315.9418
SAMP 10260486010-MS - BAL PASI-WI



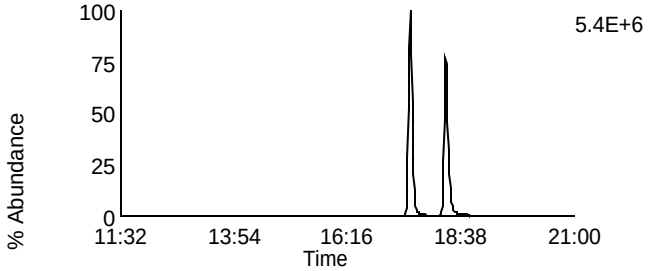
Data File: P140322B_14 G1 C10 - 331.9367
SAMP 10260486010-MS - BAL PASI-WI



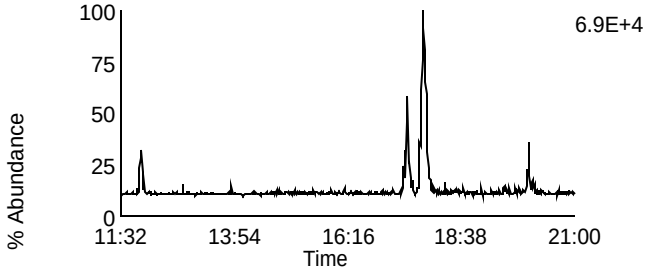
Data File: P140322B_14 G1 C4 - 317.9389
SAMP 10260486010-MS - BAL PASI-WI



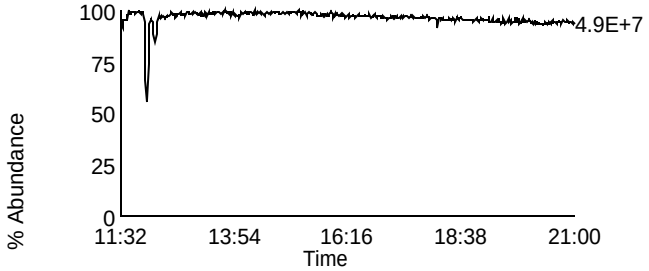
Data File: P140322B_14 G1 C11 - 333.9338
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G1 C14 - 375.8364
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G1 C5 - 318.9792
SAMP 10260486010-MS - BAL PASI-WI

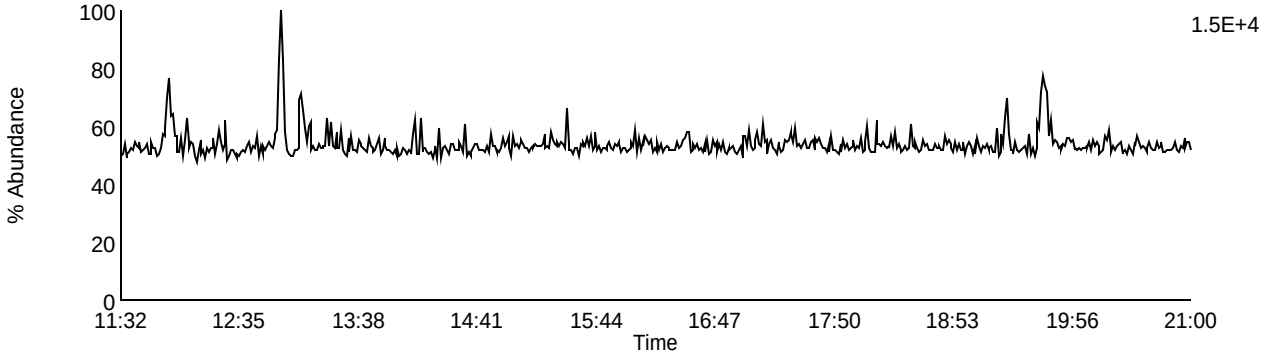


Homologue Group: Penta & Cleanup

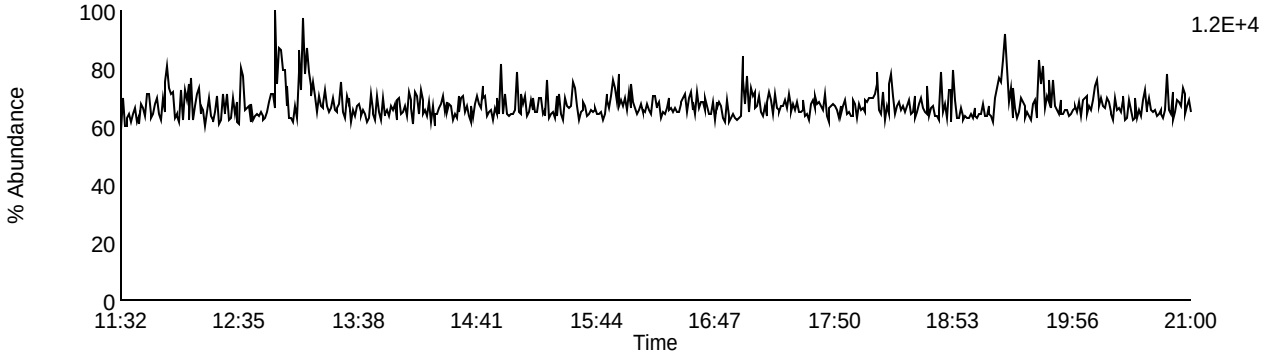
Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

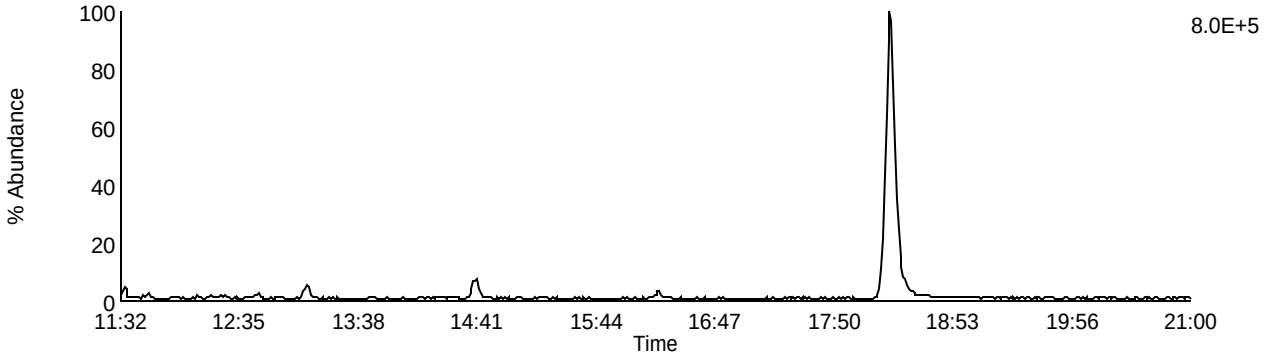
Data File: P140322B_14 G1 C12 - 339.8597
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G1 C13 - 341.8567
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G1 C9 - 327.8847
SAMP 10260486010-MS - BAL PASI-WI



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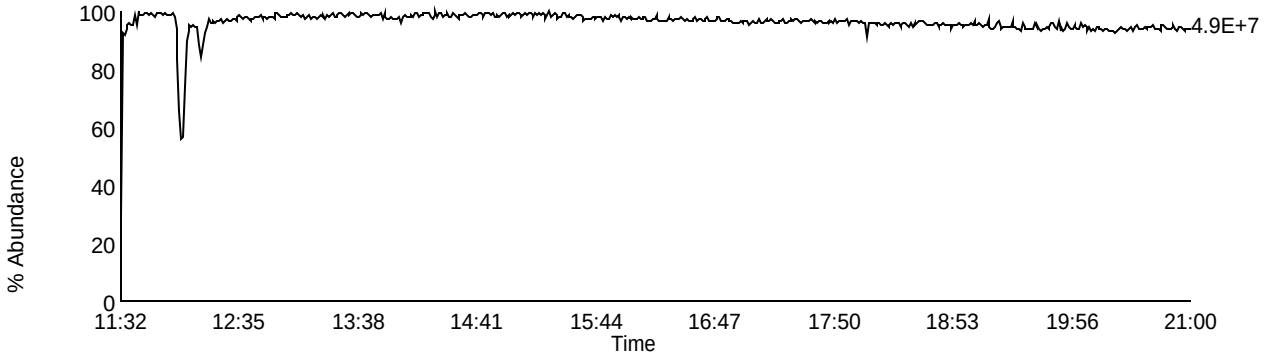
SAMP 10260486010-MS - BAL PASI-WI

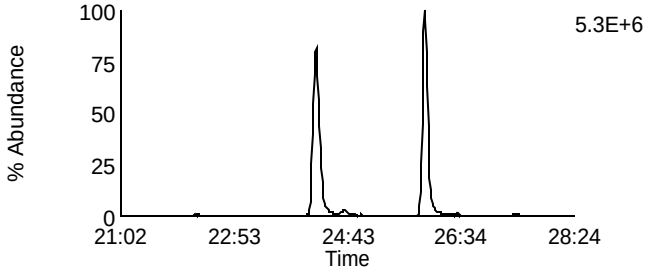


Homologue Group: Pentas

Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_14 G2 C1 - 339.8597
SAMP 10260486010-MS - BAL PASI-WI



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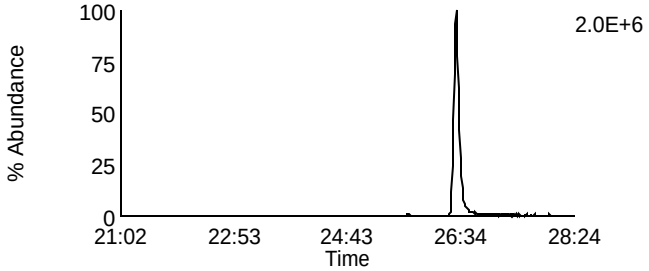
SAMP 10260486010-MS - BAL PASI-WI



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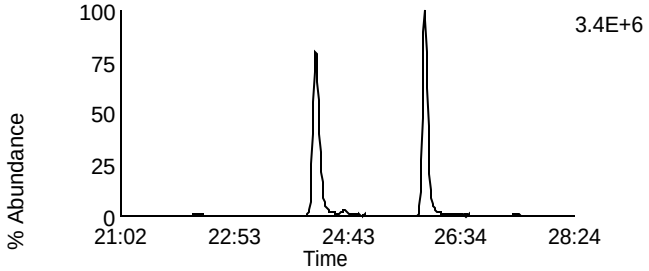
SAMP 10260486010-MS - BAL PASI-WI



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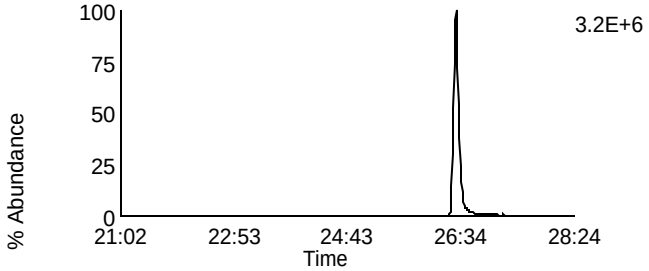
SAMP 10260486010-MS - BAL PASI-WI



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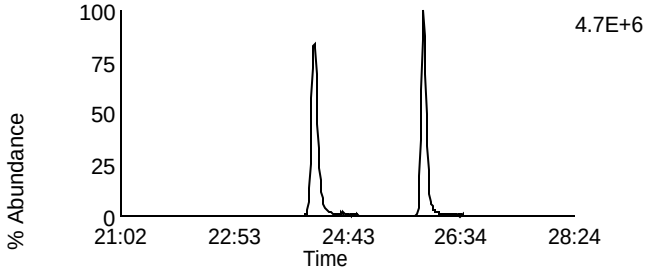
SAMP 10260486010-MS - BAL PASI-WI



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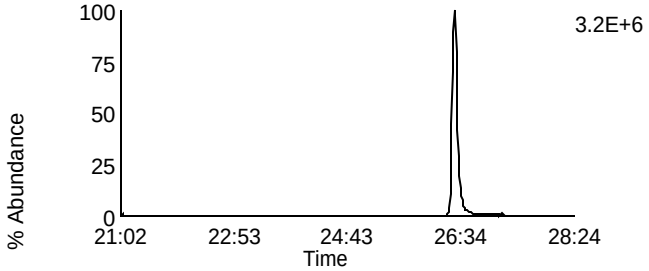
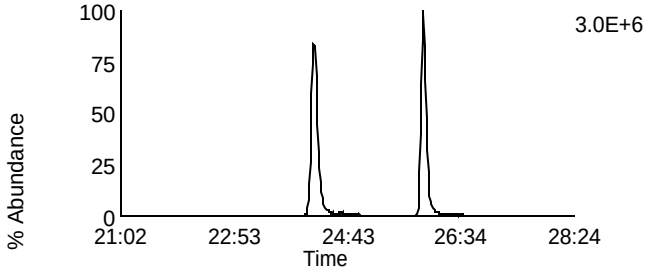
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G2 C5 - 353.8969
SAMP 10260486010-MS - BAL PASI-WI



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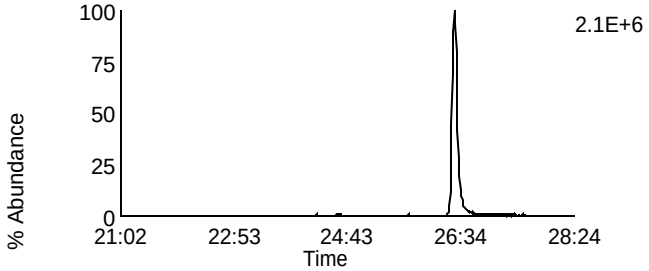
SAMP 10260486010-MS - BAL PASI-WI



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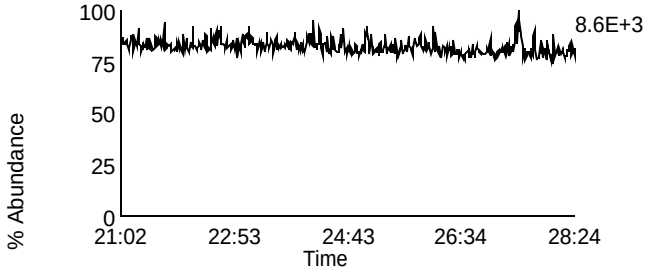
SAMP 10260486010-MS - BAL PASI-WI



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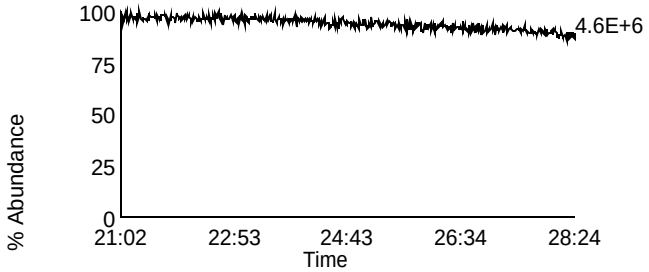
SAMP 10260486010-MS - BAL PASI-WI

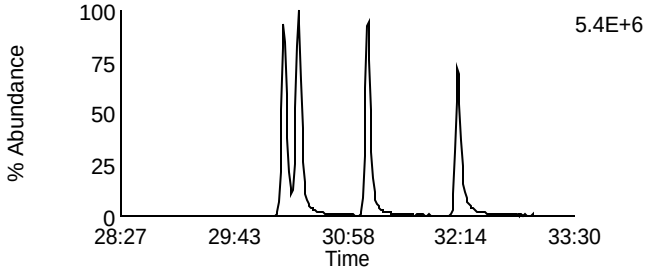


Homologue Group: Hexas

Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_14 G3 C1 - 373.8207
SAMP 10260486010-MS - BAL PASI-WI



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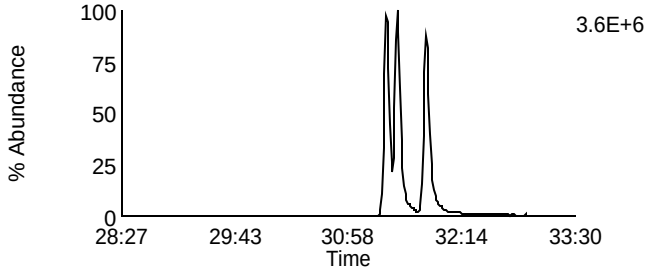
SAMP 10260486010-MS - BAL PASI-WI



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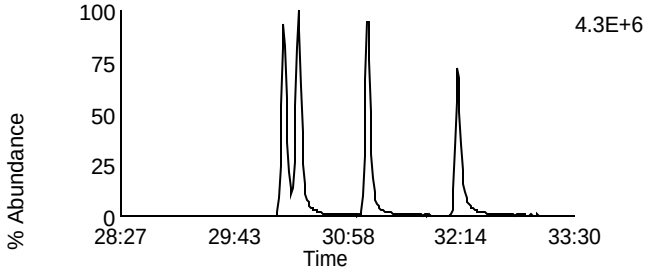

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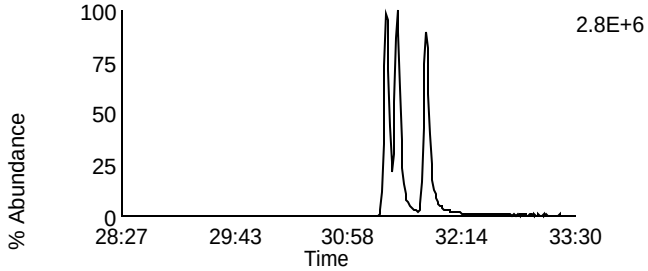
SAMP 10260486010-MS - BAL PASI-WI



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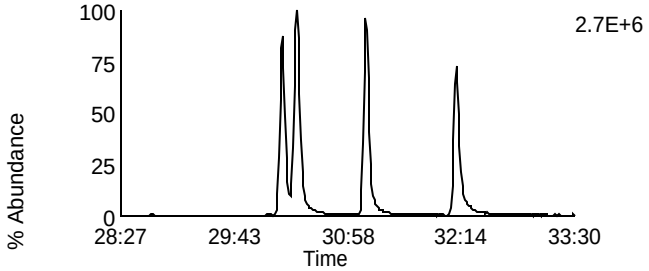
SAMP 10260486010-MS - BAL PASI-WI



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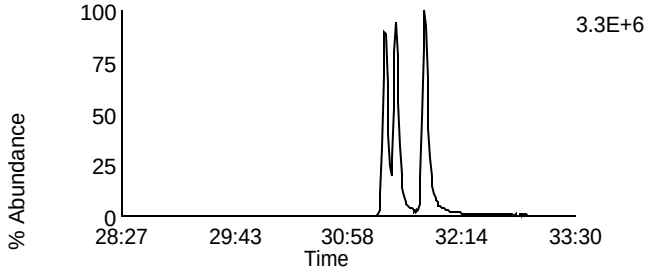

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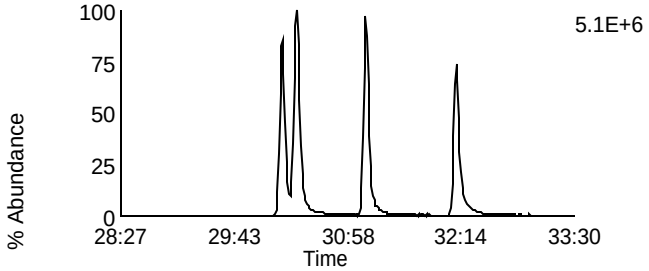
SAMP 10260486010-MS - BAL PASI-WI



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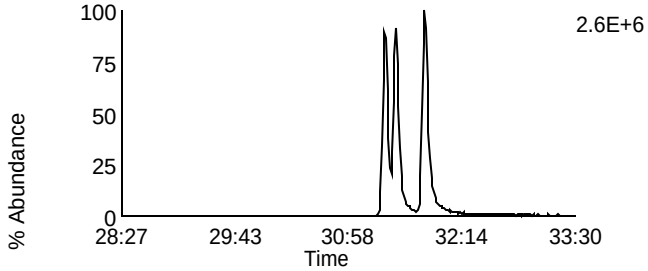
SAMP 10260486010-MS - BAL PASI-WI



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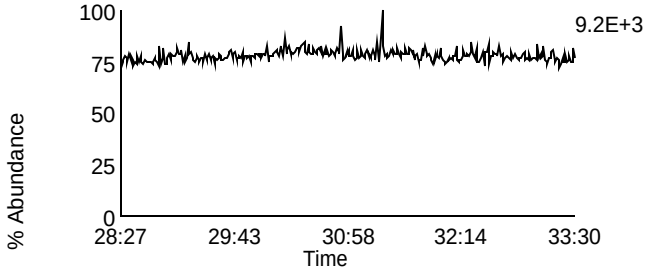
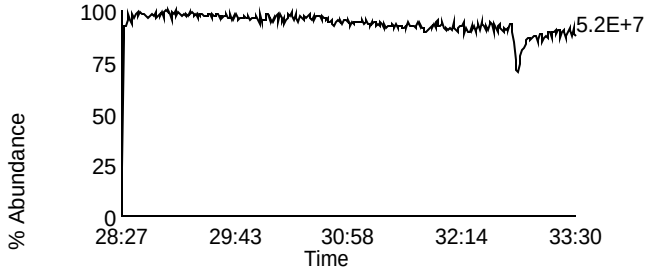
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G3 C3 - 380.976
SAMP 10260486010-MS - BAL PASI-WI

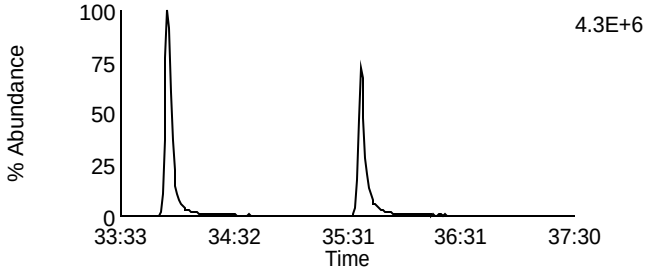


Homologue Group: Heptas

Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_14 G4 C3 - 407.7818
SAMP 10260486010-MS - BAL PASI-WI



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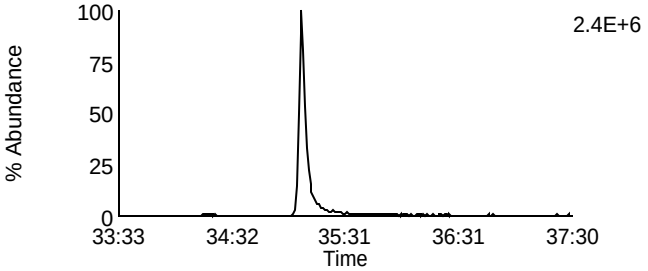

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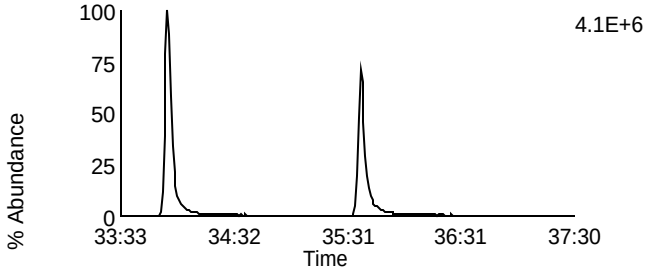
SAMP 10260486010-MS - BAL PASI-WI



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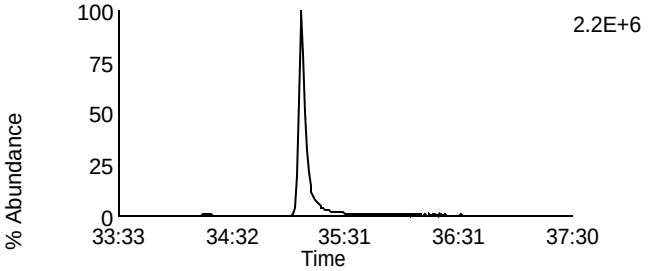
SAMP 10260486010-MS - BAL PASI-WI



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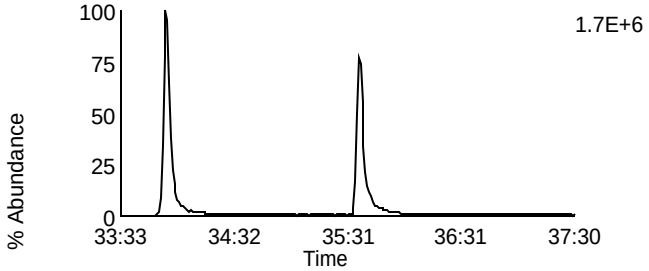
SAMP 10260486010-MS - BAL PASI-WI



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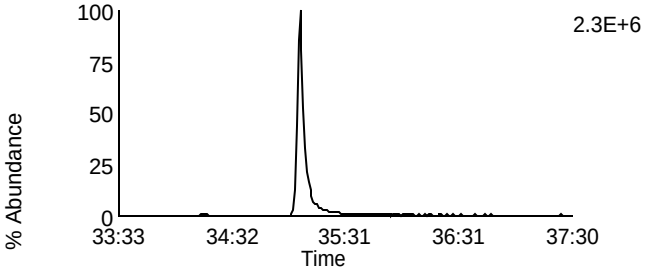
SAMP 10260486010-MS - BAL PASI-WI



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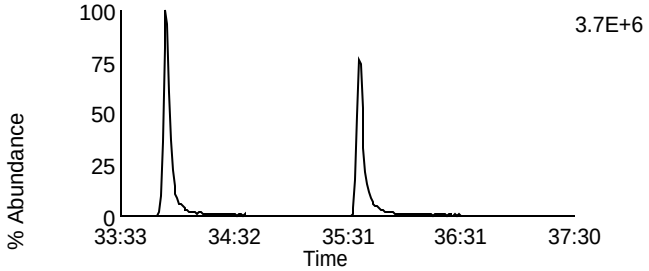
SAMP 10260486010-MS - BAL PASI-WI



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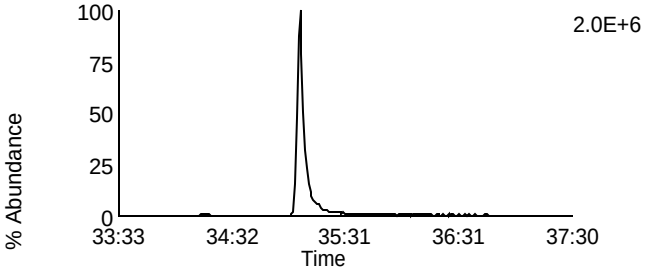
SAMP 10260486010-MS - BAL PASI-WI



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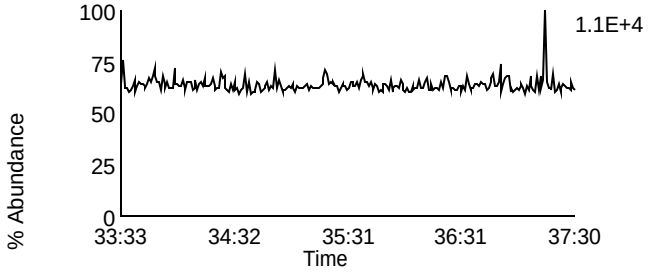
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G4 C1 - 380.976
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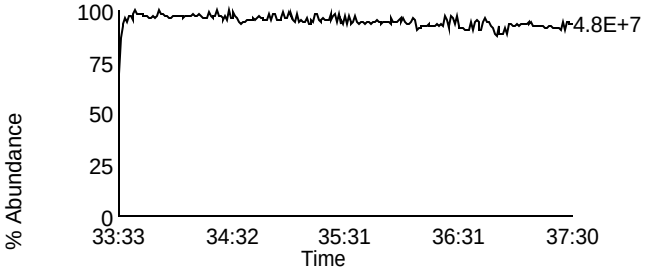
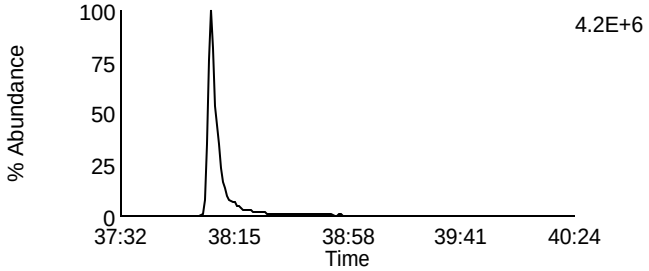


Homologue Group: Octas

Data File Name: P140322B_14
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MS - BAL PASI-WI

Lab Sample ID: 10260486010-MS
Client Sample ID: MAK121L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_14 G5 C4 - 441.7428
SAMP 10260486010-MS - BAL PASI-WI



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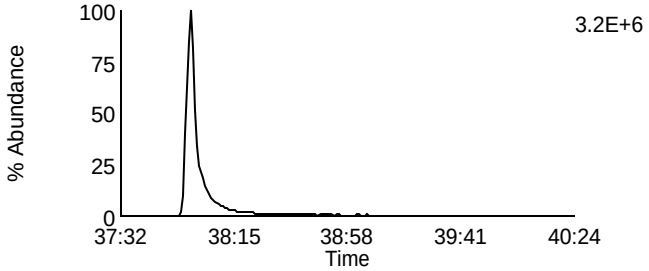
SAMP 10260486010-MS - BAL PASI-WI



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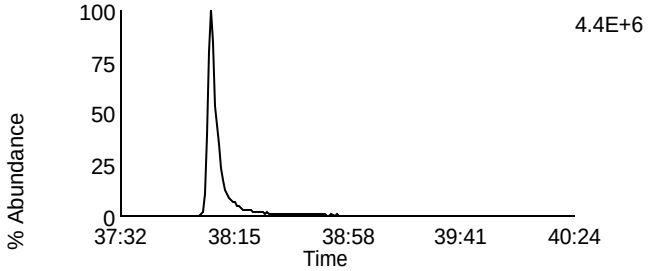
SAMP 10260486010-MS - BAL PASI-WI



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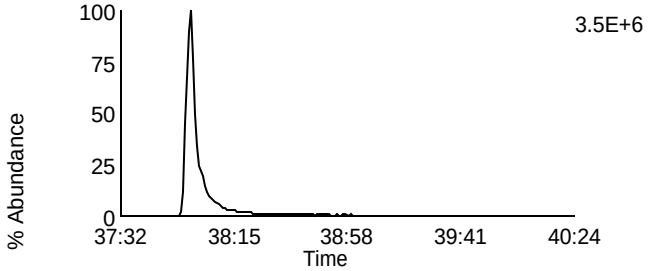
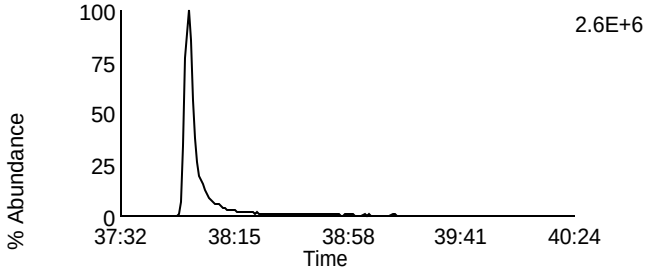
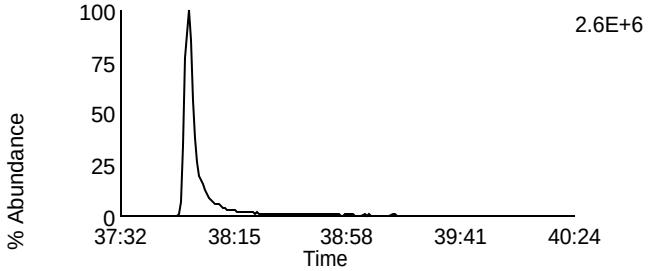
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G5 C11 - 469.7779
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G5 C11 - 469.7779
SAMP 10260486010-MS - BAL PASI-WI



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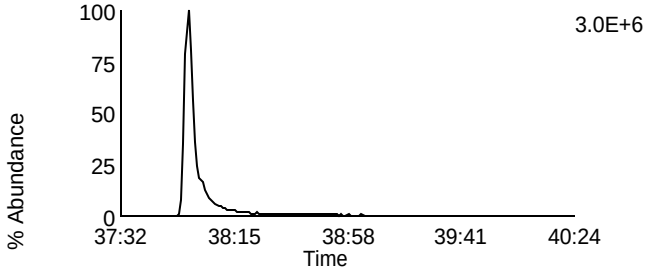
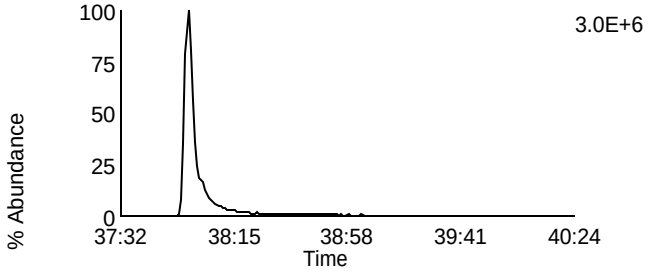
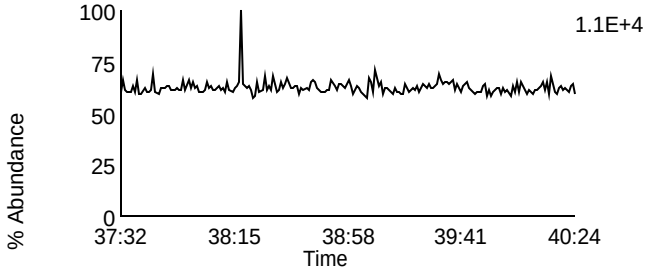
SAMP 10260486010-MS - BAL PASI-WI



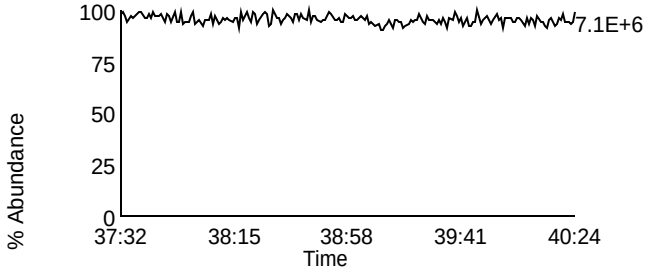
Data File: P140322B_14 G5 C12 - 471.7749
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G5 C13 - 513.6775
SAMP 10260486010-MS - BAL PASI-WI



Data File: P140322B_14 G5 C2 - 430.9728
SAMP 10260486010-MS - BAL PASI-WI

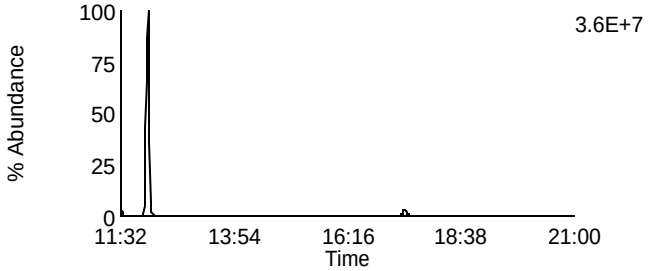


Homologue Group: Tetras

Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_15 G1 C1 - 303.9016
SAMP 10260486010-MSD - BAL PASI-WI



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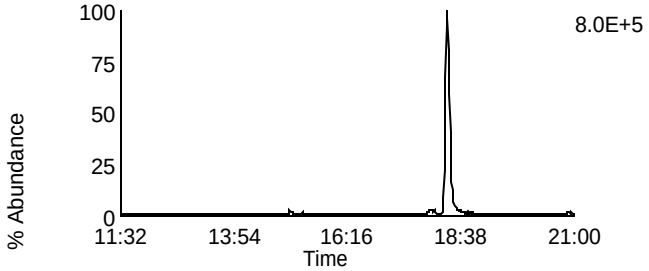
SAMP 10260486010-MSD - BAL PASI-WI



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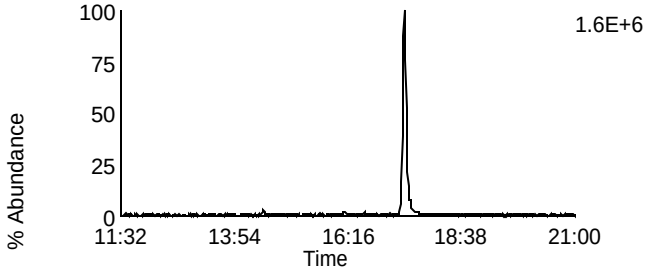
SAMP 10260486010-MSD - BAL PASI-WI



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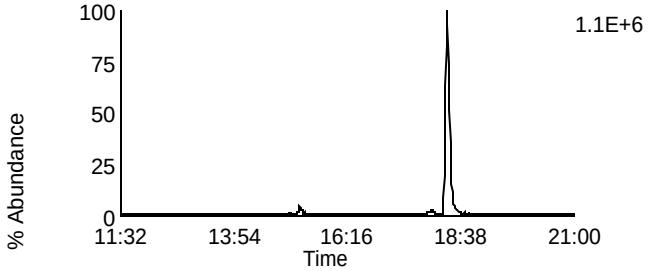
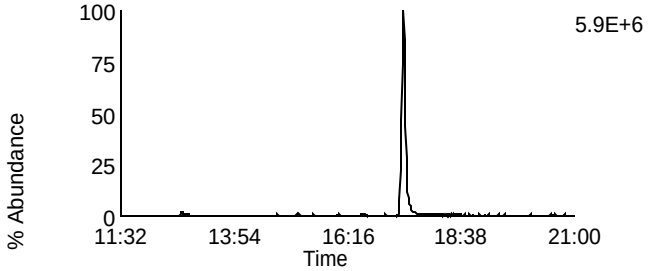
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G1 C3 - 315.9418
SAMP 10260486010-MSD - BAL PASI-WI



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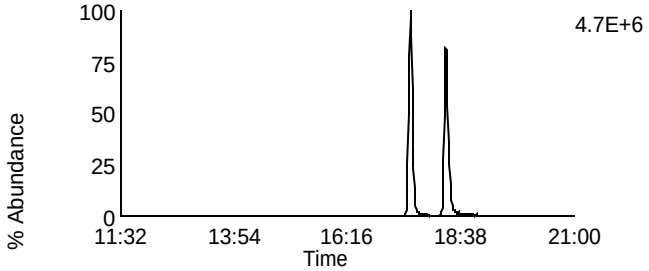
SAMP 10260486010-MSD - BAL PASI-WI



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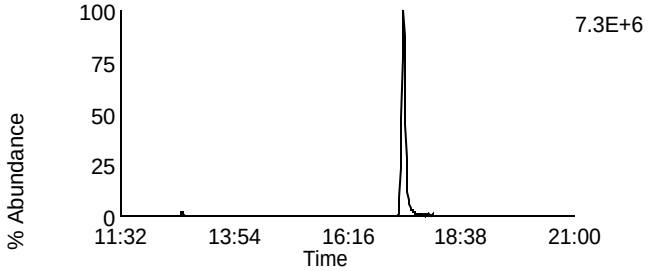
SAMP 10260486010-MSD - BAL PASI-WI



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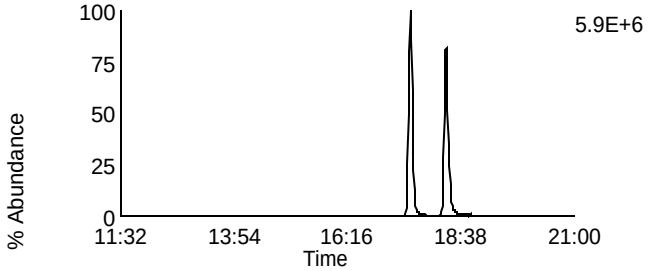
SAMP 10260486010-MSD - BAL PASI-WI



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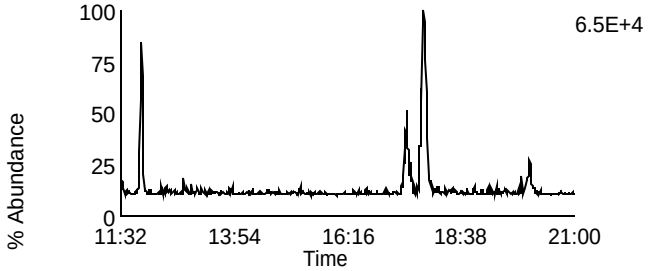
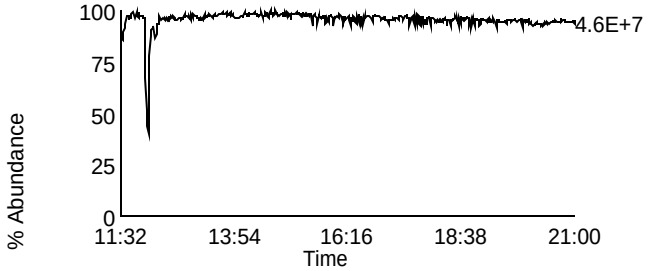
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G1 C5 - 318.9792
SAMP 10260486010-MSD - BAL PASI-WI

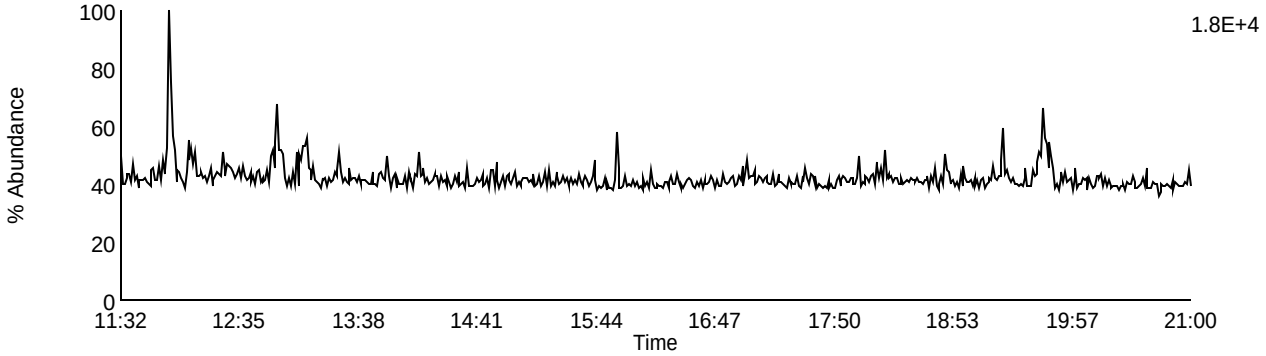


Homologue Group: Penta & Cleanup

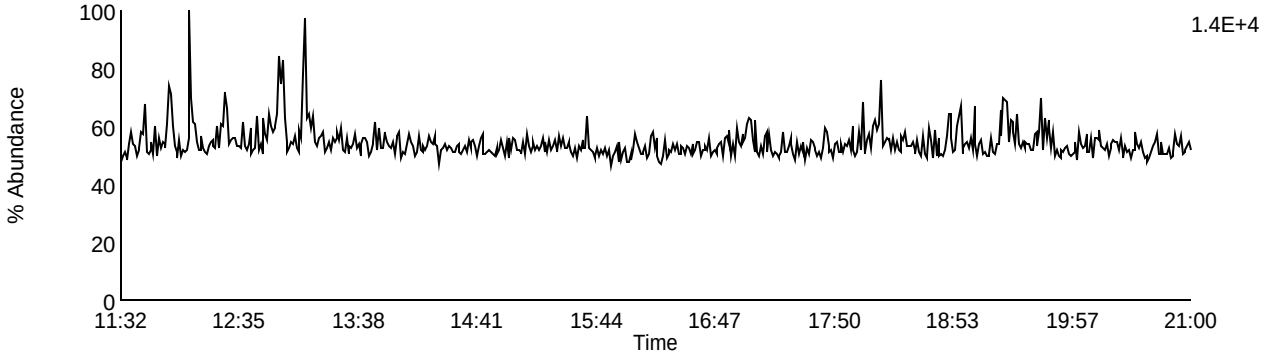
Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_15 G1 C12 - 339.8597
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G1 C13 - 341.8567
SAMP 10260486010-MSD - BAL PASI-WI



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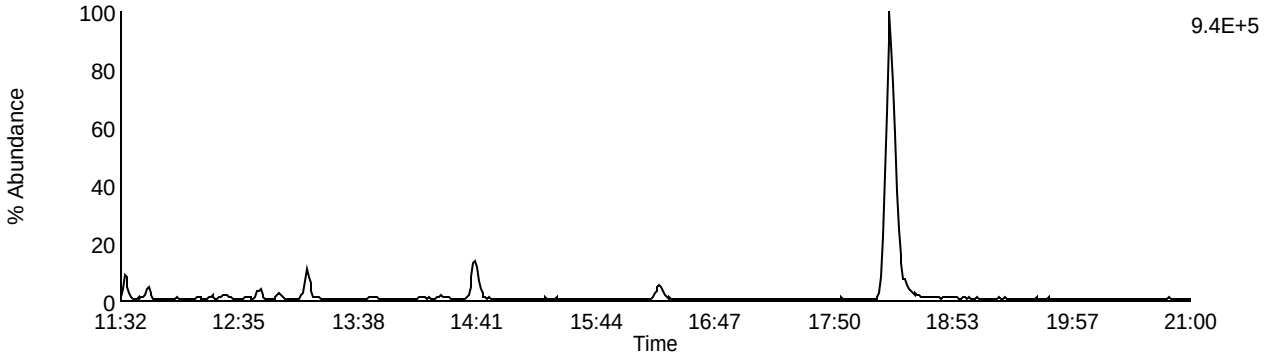
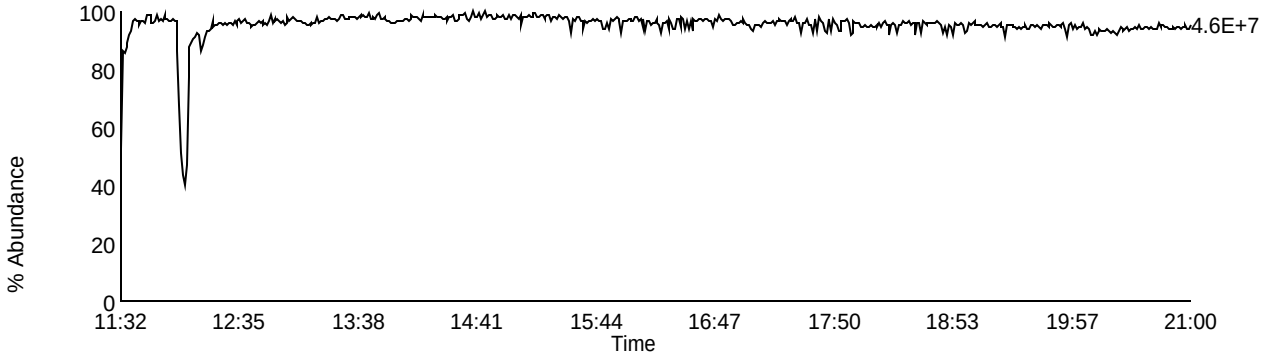
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G1 C5 - 318.9792
SAMP 10260486010-MSD - BAL PASI-WI

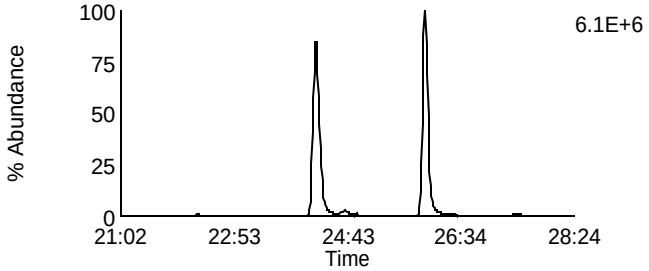


Homologue Group: Pentas

Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_15 G2 C1 - 339.8597
SAMP 10260486010-MSD - BAL PASI-WI



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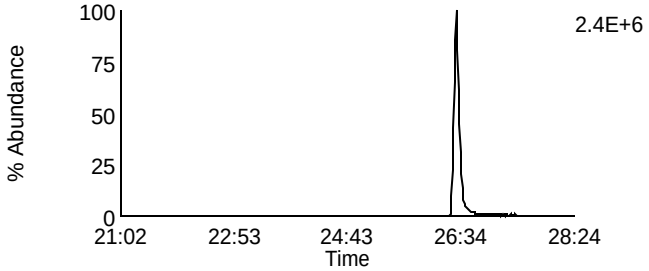
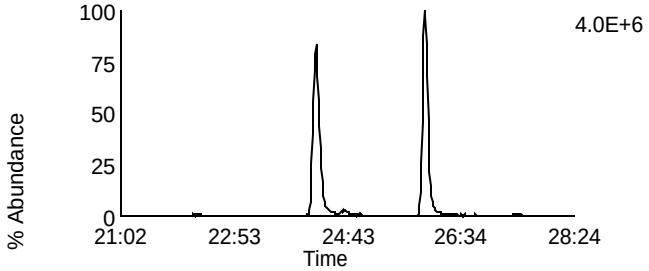
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G2 C2 - 341.8567
SAMP 10260486010-MSD - BAL PASI-WI



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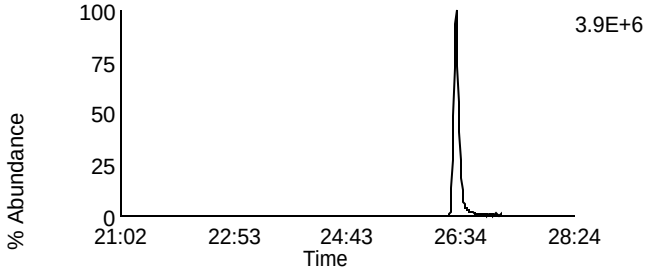
SAMP 10260486010-MSD - BAL PASI-WI



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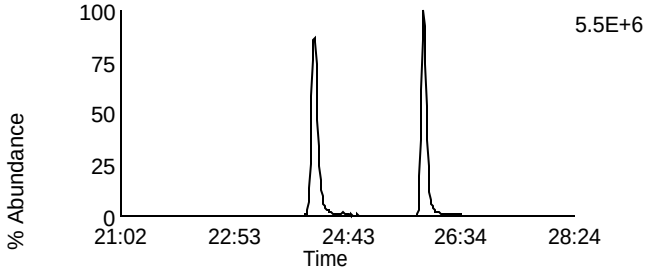
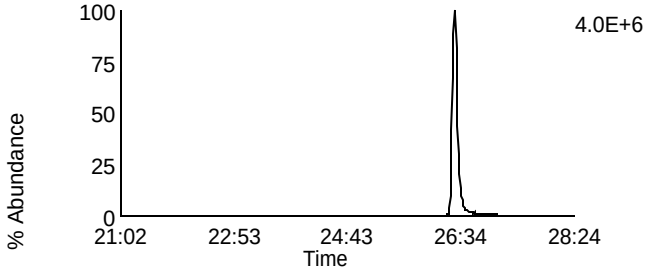
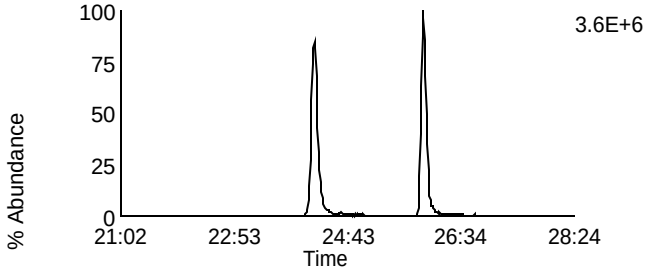
SAMP 10260486010-MSD - BAL PASI-WI



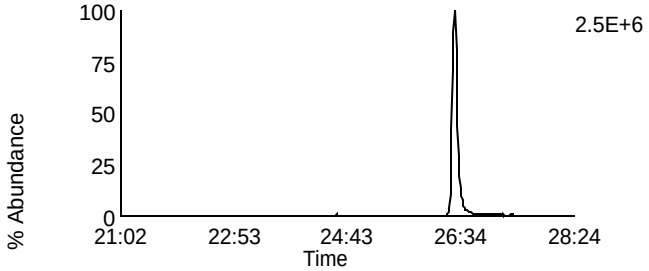
Data File: P140322B_15 G2 C10 - 367.8948
SAMP 10260486010-MSD - BAL PASI-WI



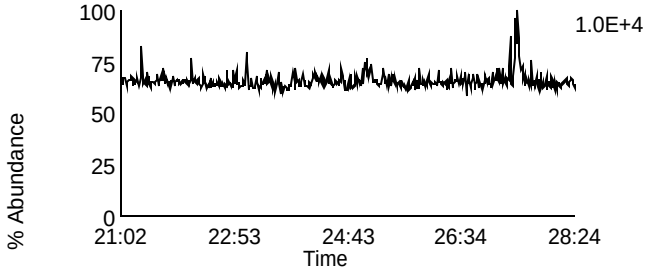
Data File: P140322B_15 G2 C5 - 353.8969
SAMP 10260486010-MSD - BAL PASI-WI



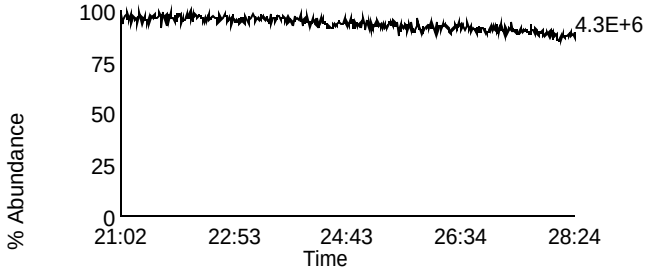
Data File: P140322B_15 G2 C11 - 369.8918
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G2 C12 - 409.7974
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G2 C6 - 354.9792
SAMP 10260486010-MSD - BAL PASI-WI

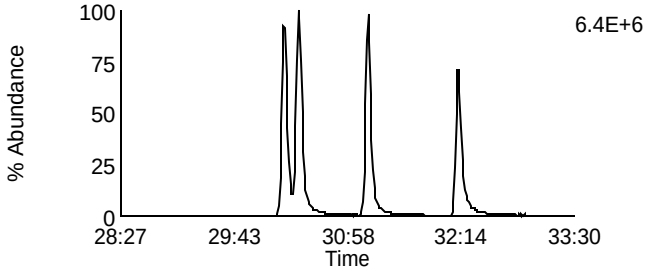


Homologue Group: Hexas

Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_15 G3 C1 - 373.8207
SAMP 10260486010-MSD - BAL PASI-WI



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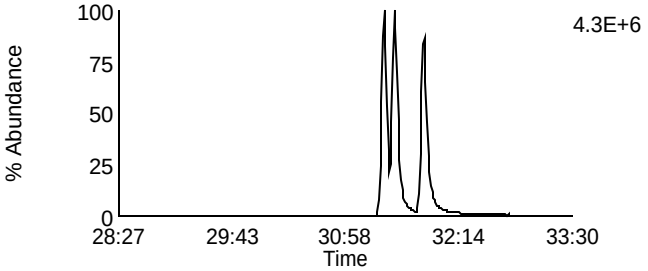

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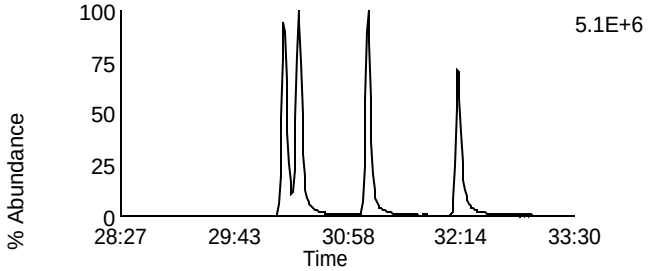
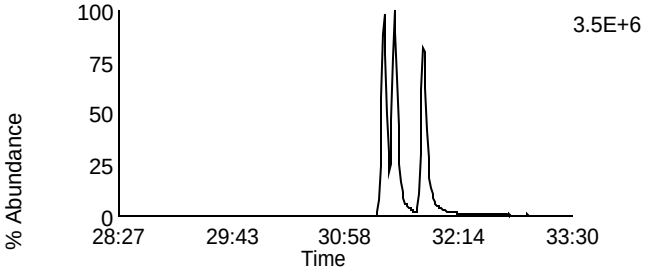
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G3 C8 - 391.8127
SAMP 10260486010-MSD - BAL PASI-WI



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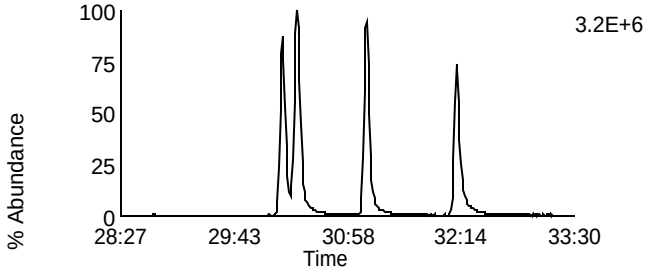
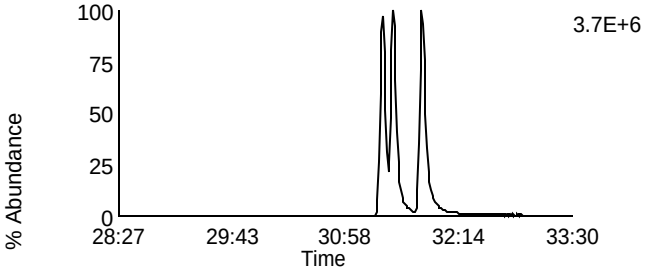
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G3 C9 - 401.8559
SAMP 10260486010-MSD - BAL PASI-WI



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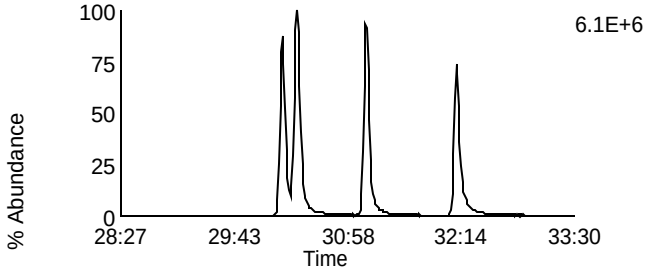
SAMP 10260486010-MSD - BAL PASI-WI



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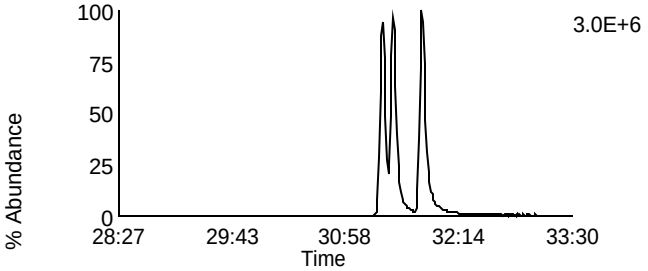
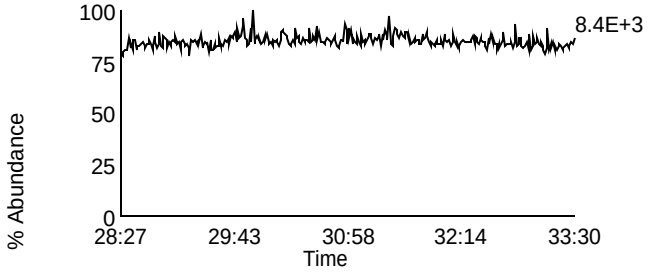
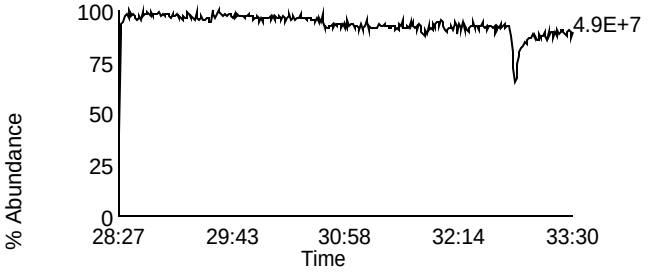
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G3 C11 - 445.7555
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G3 C3 - 380.976
SAMP 10260486010-MSD - BAL PASI-WI

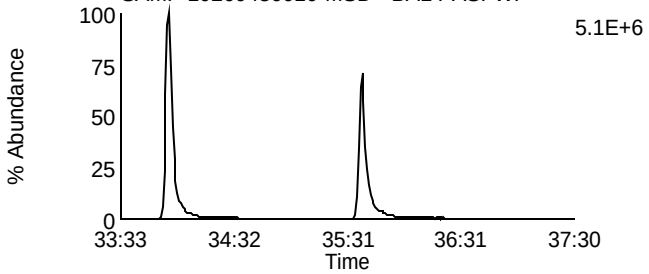


Homologue Group: Heptas

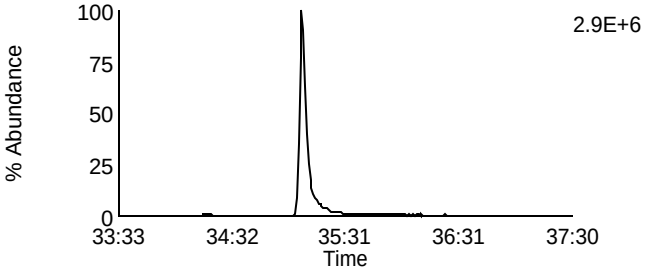
Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

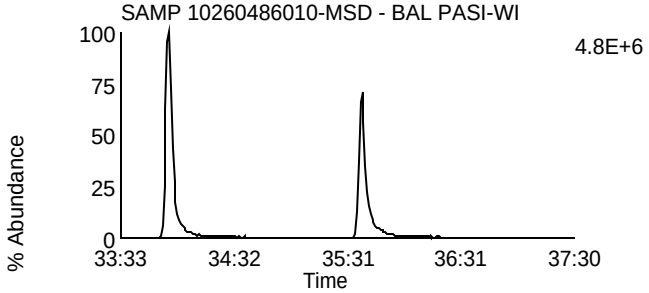
Data File: P140322B_15 G4 C3 - 407.7818
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G4 C8 - 423.7767
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G4 C4 - 409.7788
SAMP 10260486010-MSD - BAL PASI-WI



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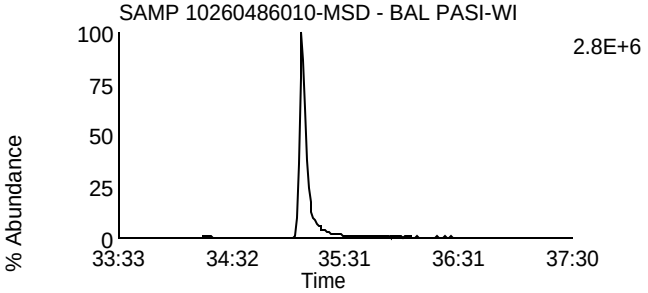
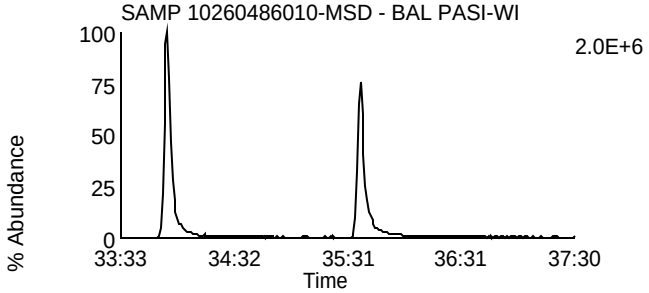
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G4 C6 - 417.825
SAMP 10260486010-MSD - BAL PASI-WI



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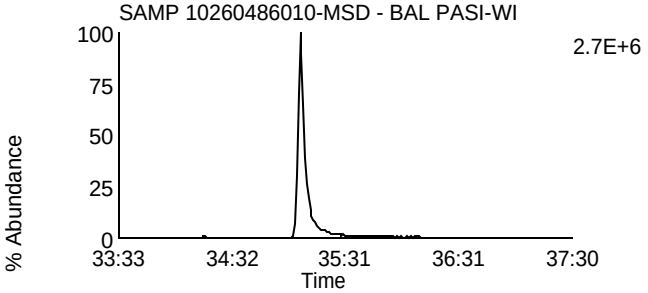
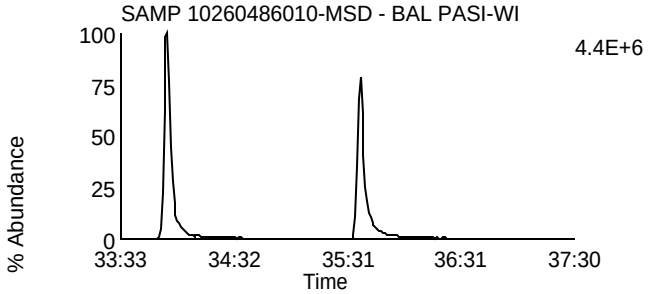
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G4 C7 - 419.822
SAMP 10260486010-MSD - BAL PASI-WI



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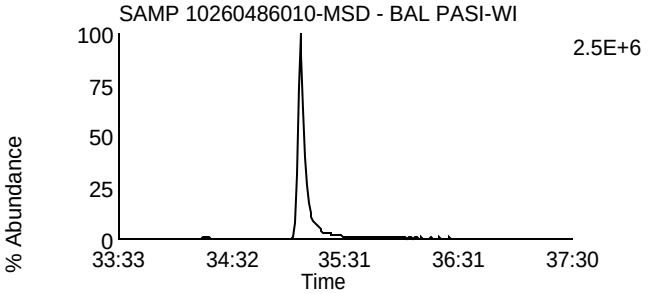
SAMP 10260486010-MSD - BAL PASI-WI



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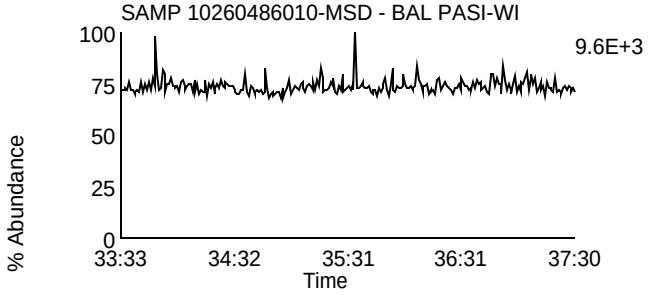
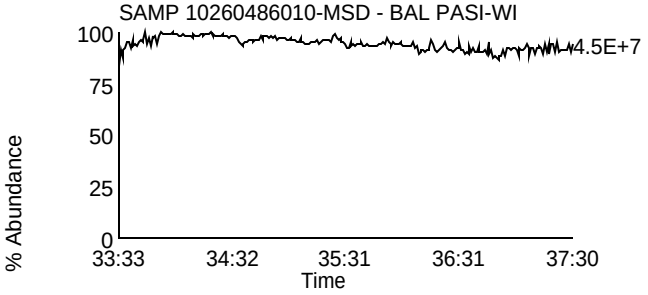
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G4 C1 - 380.976
SAMP 10260486010-MSD - BAL PASI-WI

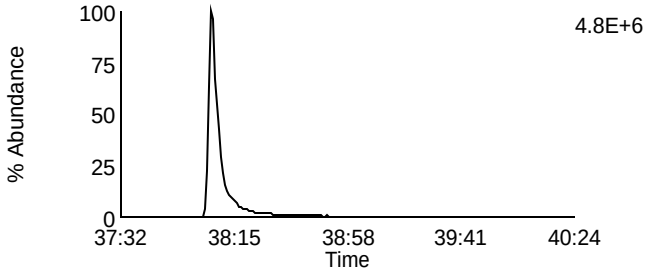


Homologue Group: Octas

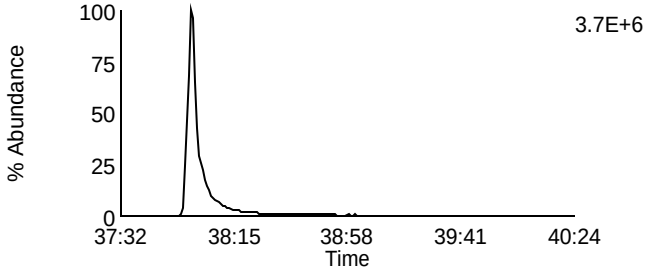
Data File Name: P140322B_15
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486010-MSD - BAL PASI-WI

Lab Sample ID: 10260486010-MSD
Client Sample ID: MAK121L-MSD
Instrument: 10MSHR09 (P)

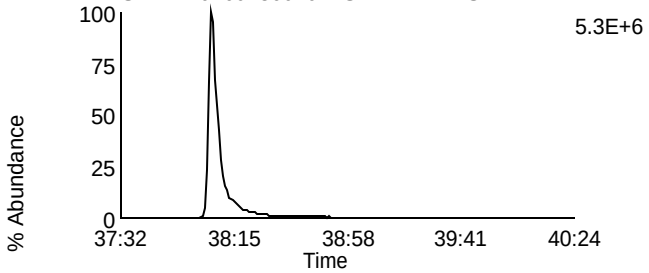
Data File: P140322B_15 G5 C4 - 441.7428
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G5 C8 - 457.7377
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G5 C5 - 443.7398
SAMP 10260486010-MSD - BAL PASI-WI



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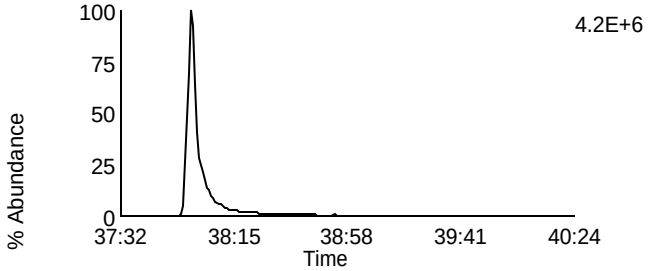
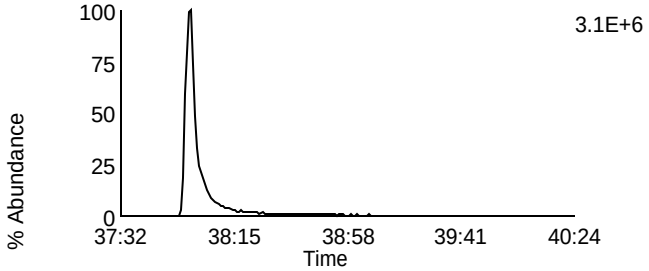
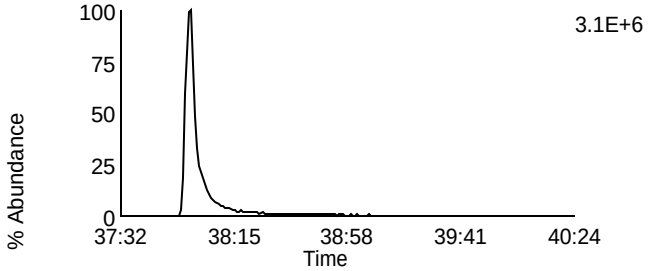
SAMP 10260486010-MSD - BAL PASI-WI



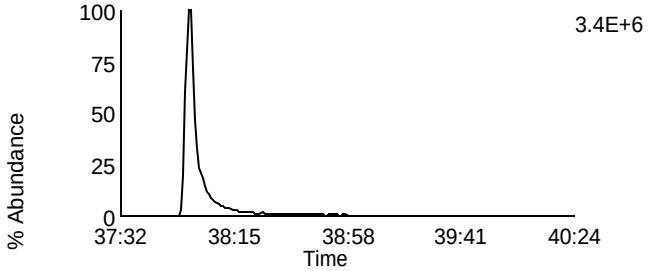
Data File: P140322B_15 G5 C11 - 469.7779
SAMP 10260486010-MSD - BAL PASI-WI



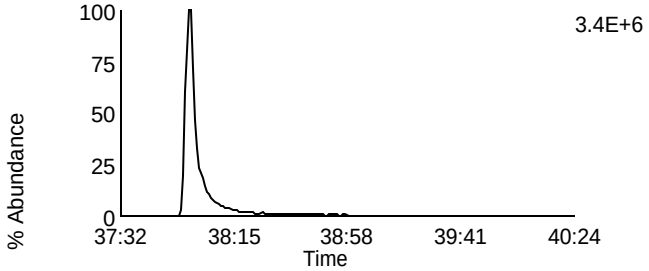
Data File: P140322B_15 G5 C11 - 469.7779
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G5 C12 - 471.7749
SAMP 10260486010-MSD - BAL PASI-WI



Data File: P140322B_15 G5 C12 - 471.7749
SAMP 10260486010-MSD - BAL PASI-WI



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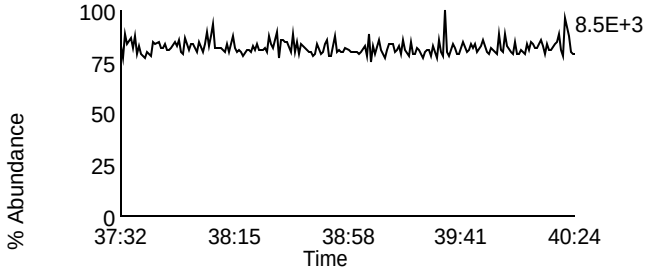
SAMP 10260486010-MSD - BAL PASI-WI



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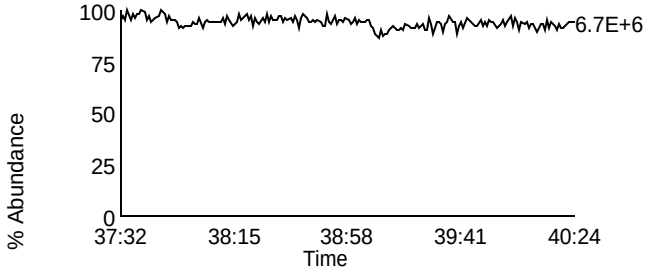
SAMP 10260486010-MSD - BAL PASI-WI

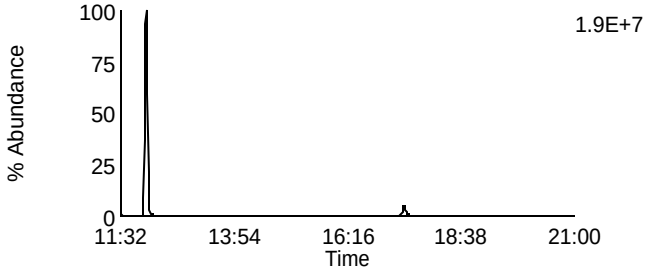


Homologue Group: Tetras

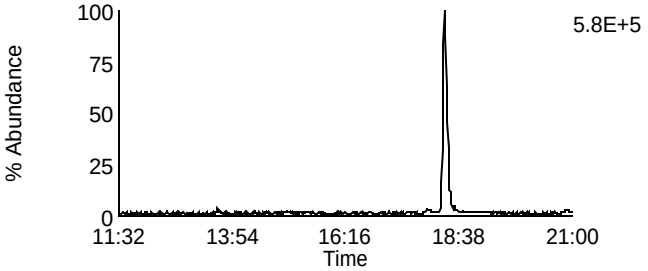
Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_16 G1 C1 - 303.9016
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G1 C7 - 319.8965
SAMP 10260486012-MS - BAL PASI-WI



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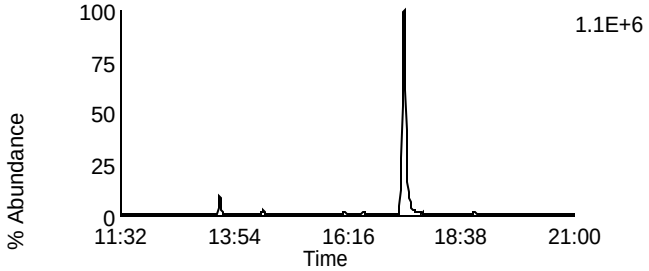
SAMP 10260486012-MS - BAL PASI-WI



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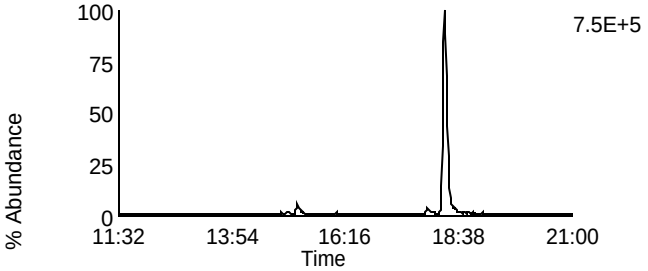
SAMP 10260486012-MS - BAL PASI-WI



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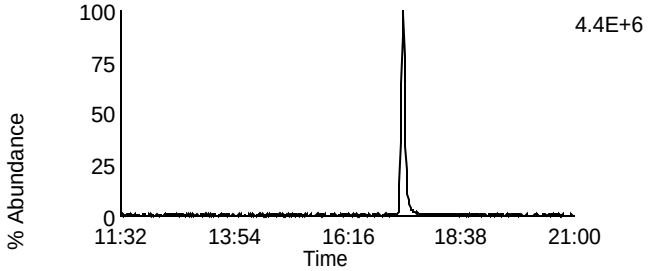
SAMP 10260486012-MS - BAL PASI-WI



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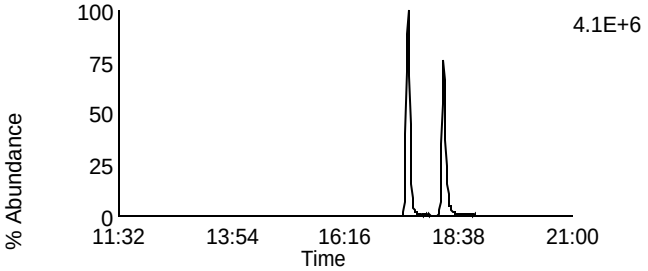
SAMP 10260486012-MS - BAL PASI-WI



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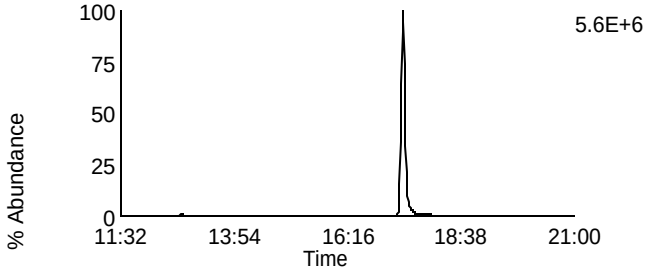
SAMP 10260486012-MS - BAL PASI-WI



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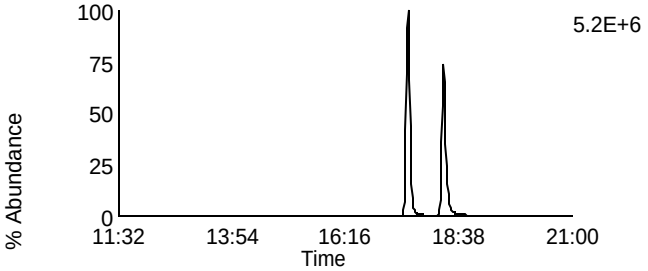
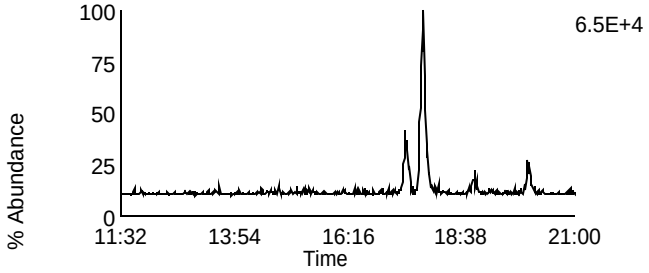
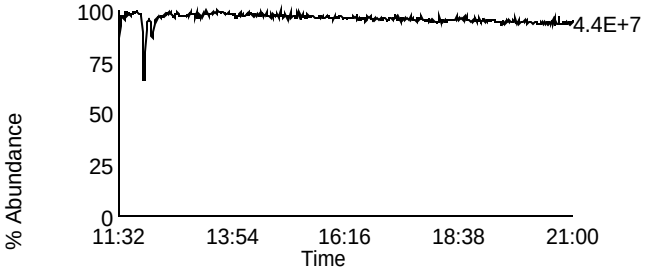


Data File: P140322B_16 G1 C14 - 375.8364
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G1 C5 - 318.9792
SAMP 10260486012-MS - BAL PASI-WI

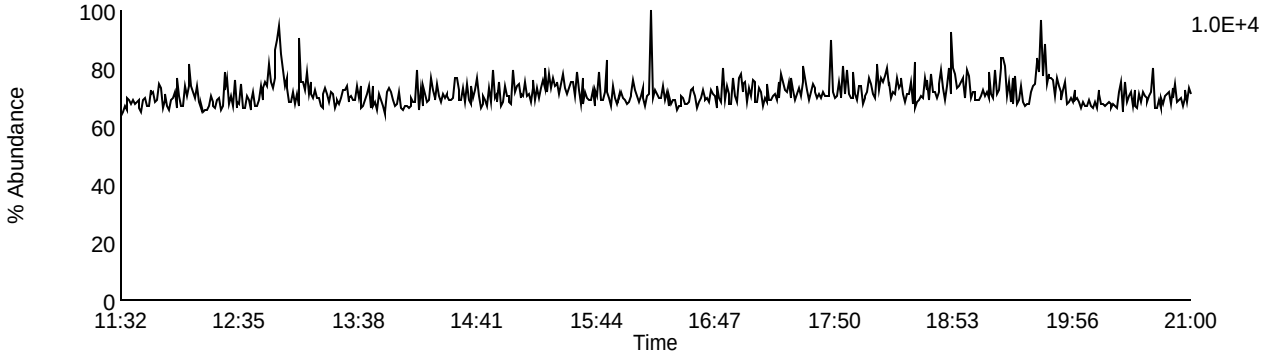


Homologue Group: Penta & Cleanup

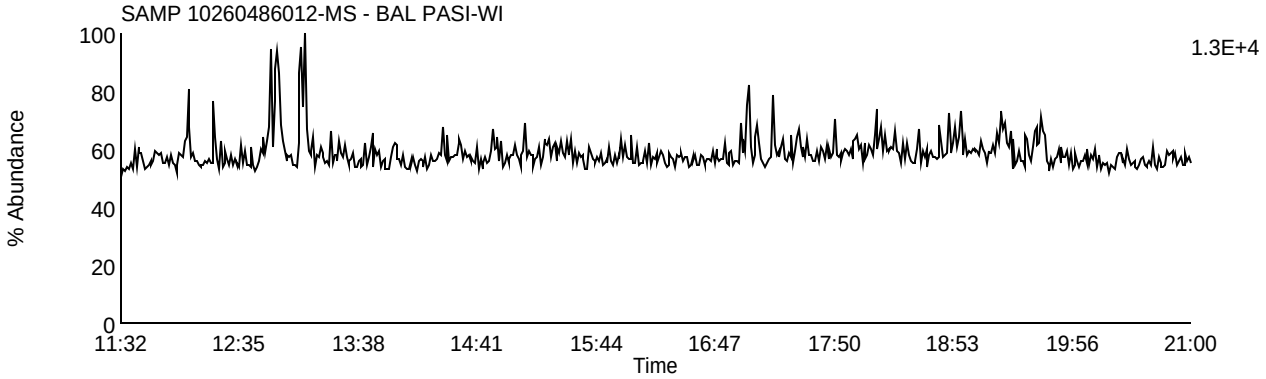
Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

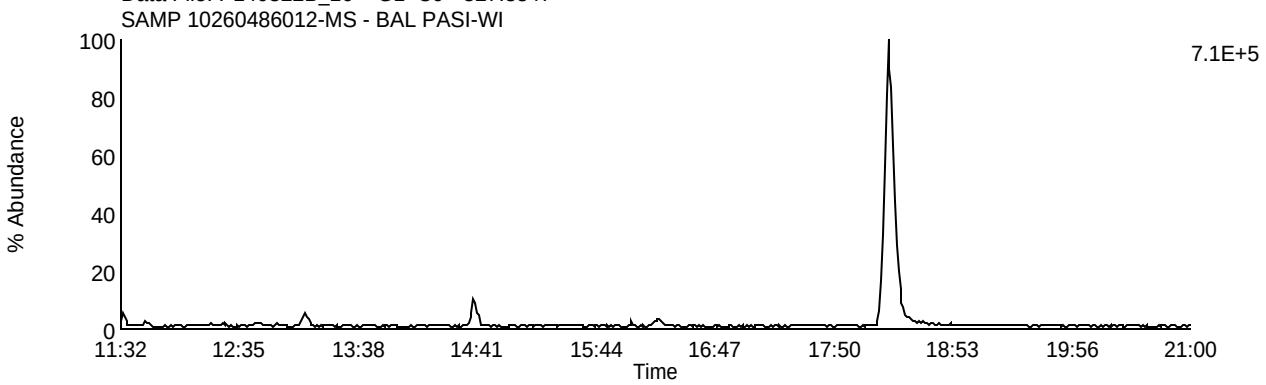
Data File: P140322B_16 G1 C12 - 339.8597
SAMP 10260486012-MS - BAL PASI-WI



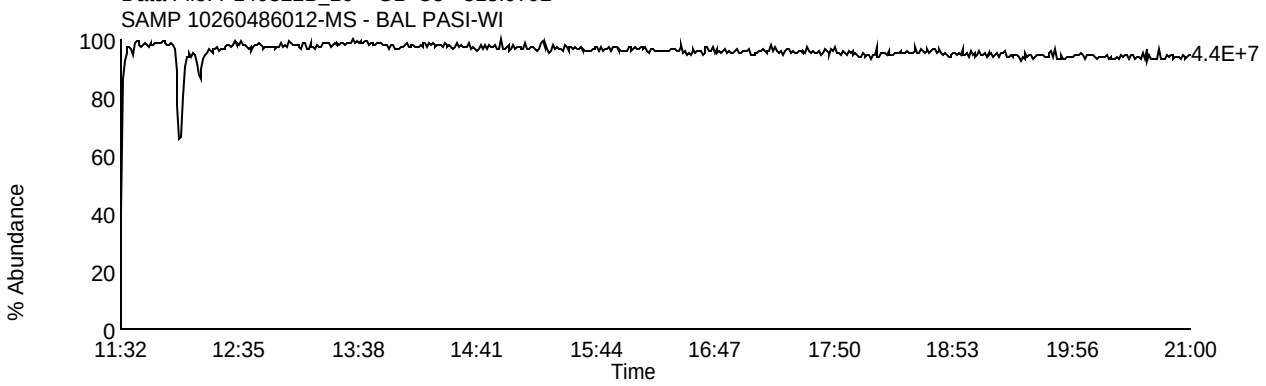
Data File: P140322B_16 G1 C13 - 341.8567
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G1 C9 - 327.8847
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G1 C5 - 318.9792
SAMP 10260486012-MS - BAL PASI-WI

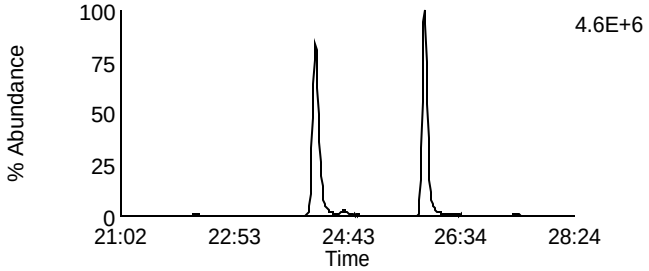


Homologue Group: Pentas

Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_16 G2 C1 - 339.8597
SAMP 10260486012-MS - BAL PASI-WI



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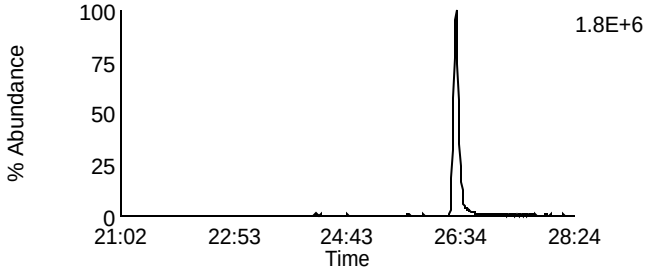
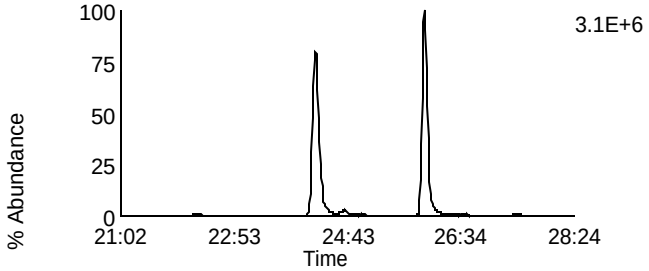
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G2 C2 - 341.8567
SAMP 10260486012-MS - BAL PASI-WI



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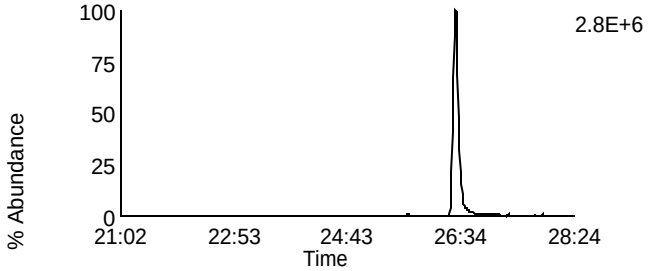
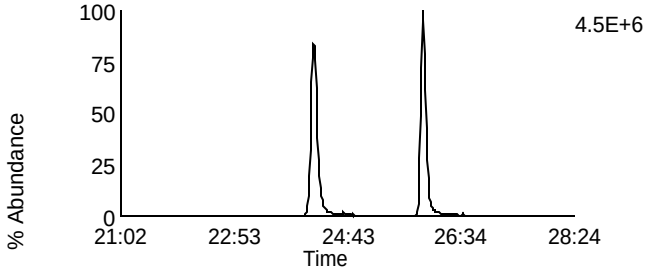
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G2 C3 - 351.8999
SAMP 10260486012-MS - BAL PASI-WI



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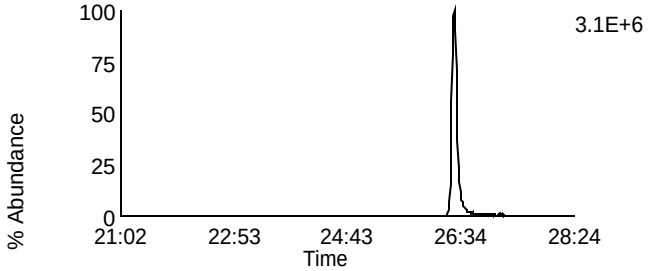
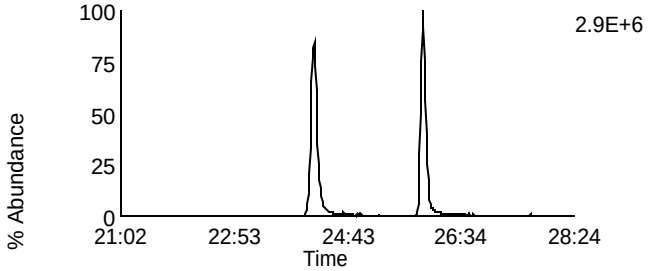
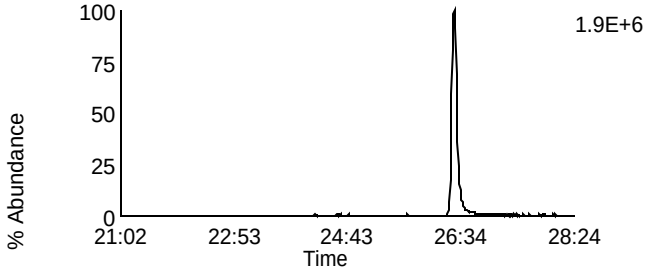
SAMP 10260486012-MS - BAL PASI-WI



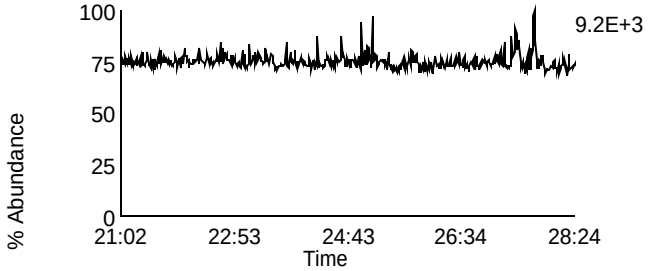
Data File: P140322B_16 G2 C5 - 353.8969
SAMP 10260486012-MS - BAL PASI-WI



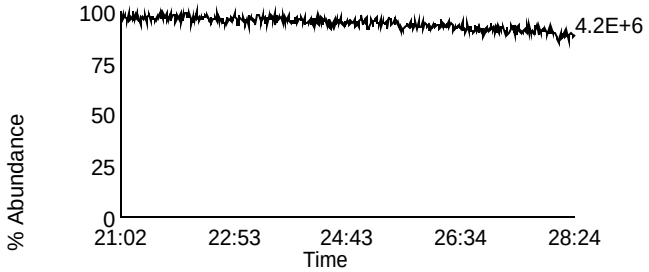
Data File: P140322B_16 G2 C11 - 369.8918
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G2 C12 - 409.7974
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G2 C6 - 354.9792
SAMP 10260486012-MS - BAL PASI-WI

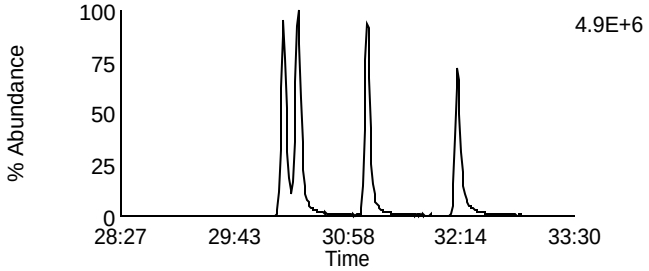


Homologue Group: Hexas

Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_16 G3 C1 - 373.8207
SAMP 10260486012-MS - BAL PASI-WI



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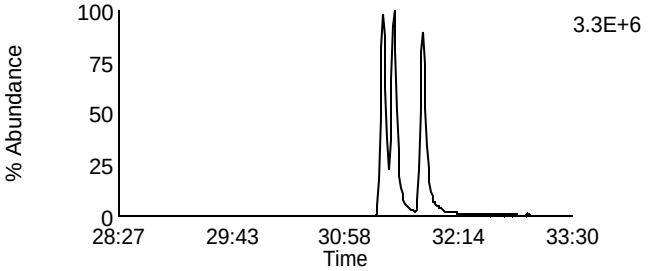
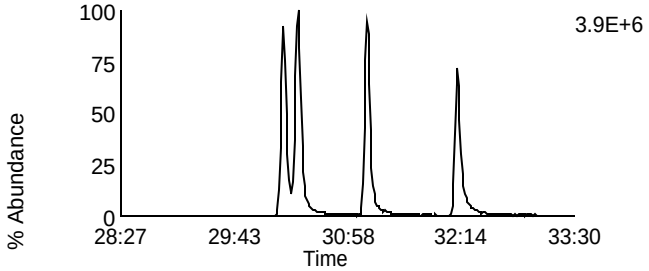
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G3 C2 - 375.8178
SAMP 10260486012-MS - BAL PASI-WI



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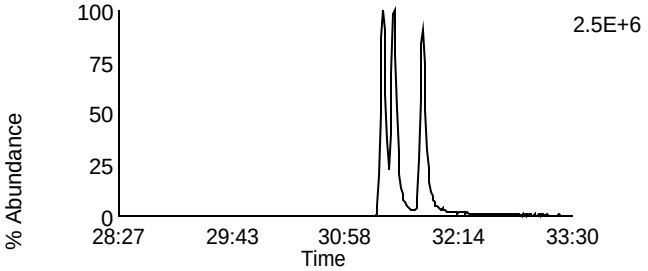
SAMP 10260486012-MS - BAL PASI-WI



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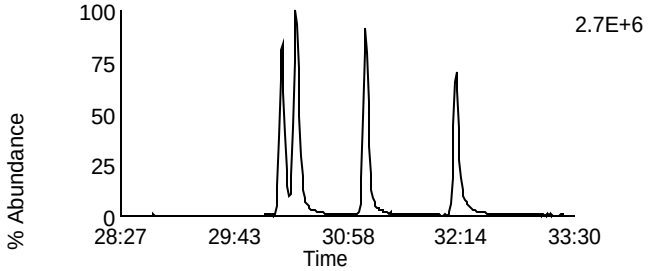
SAMP 10260486012-MS - BAL PASI-WI



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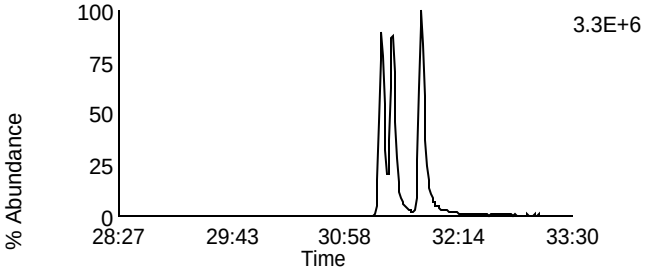
SAMP 10260486012-MS - BAL PASI-WI



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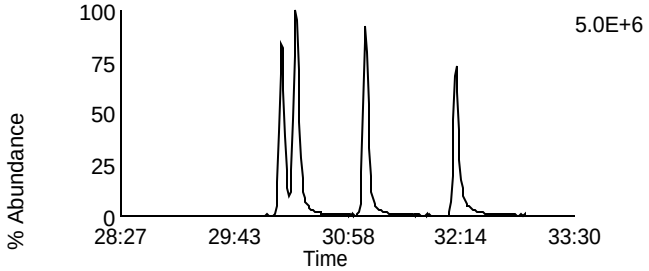
SAMP 10260486012-MS - BAL PASI-WI



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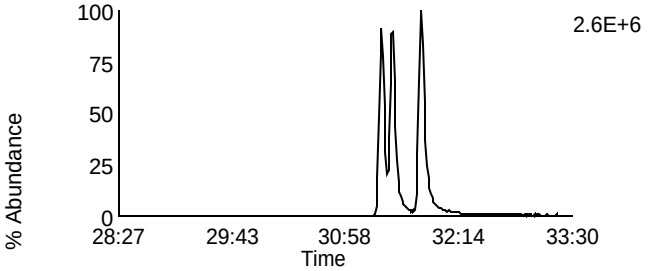
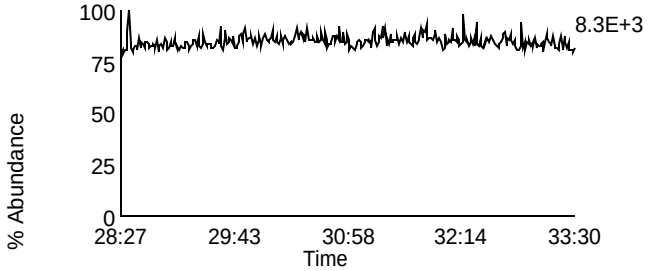
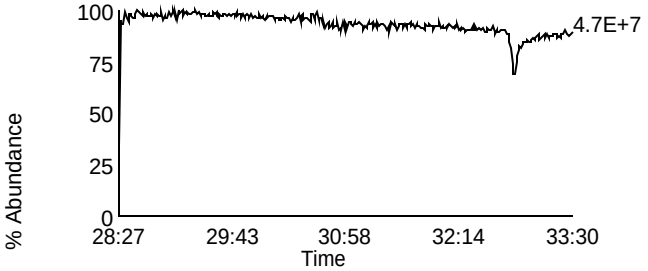
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G3 C11 - 445.7555
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G3 C3 - 380.976
SAMP 10260486012-MS - BAL PASI-WI

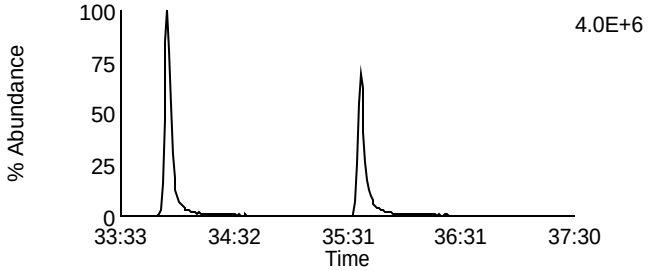


Homologue Group: Heptas

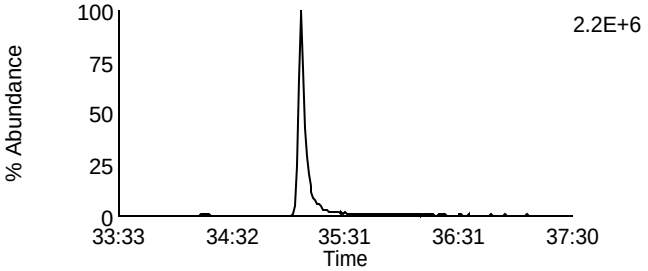
Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

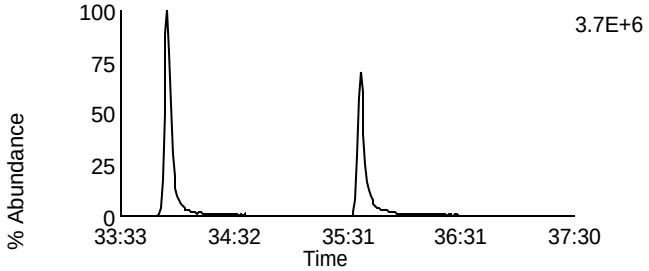
Data File: P140322B_16 G4 C3 - 407.7818
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G4 C8 - 423.7767
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G4 C4 - 409.7788
SAMP 10260486012-MS - BAL PASI-WI



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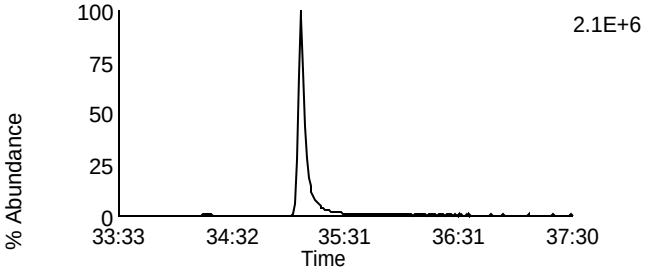
SAMP 10260486012-MS - BAL PASI-WI



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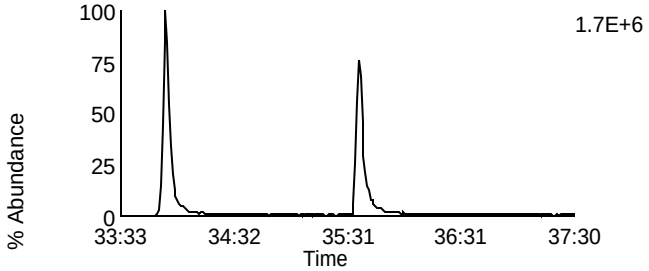
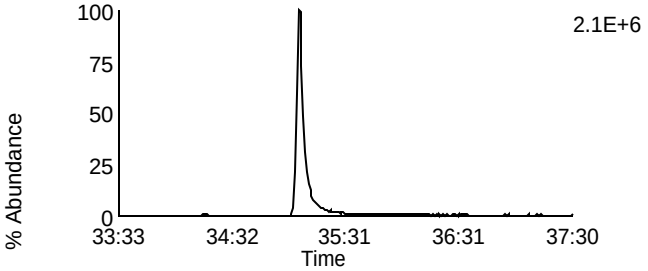
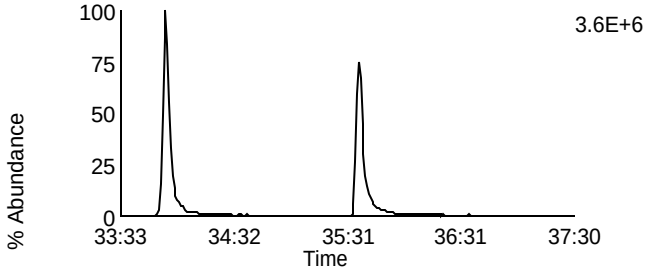
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G4 C11 - 435.8169
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G4 C7 - 419.822
SAMP 10260486012-MS - BAL PASI-WI



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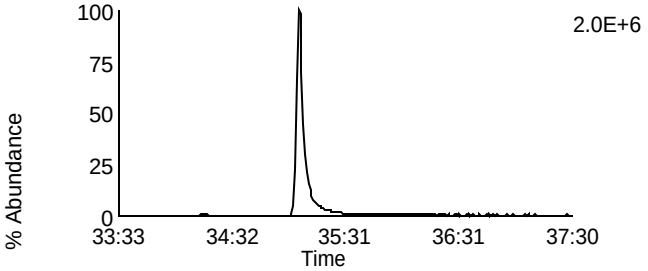
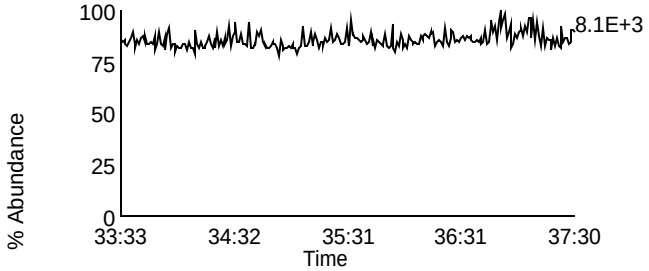
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G4 C13 - 479.7165
SAMP 10260486012-MS - BAL PASI-WI



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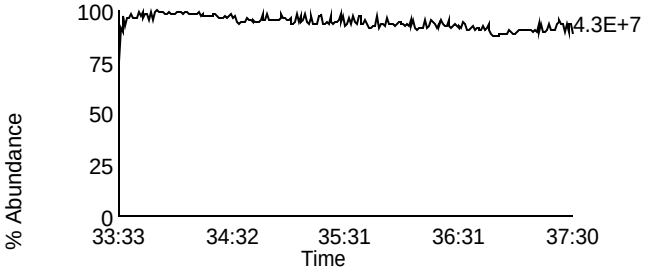
SAMP 10260486012-MS - BAL PASI-WI

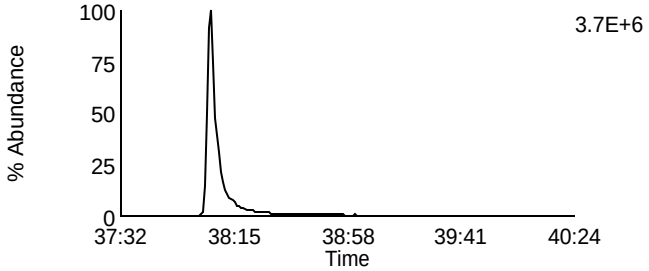


Homologue Group: Octas

Data File Name: P140322B_16
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MS - BAL PASI-WI

Lab Sample ID: 10260486012-MS
Client Sample ID: MAK123L-MS
Instrument: 10MSHR09 (P)

Data File: P140322B_16 G5 C4 - 441.7428
SAMP 10260486012-MS - BAL PASI-WI



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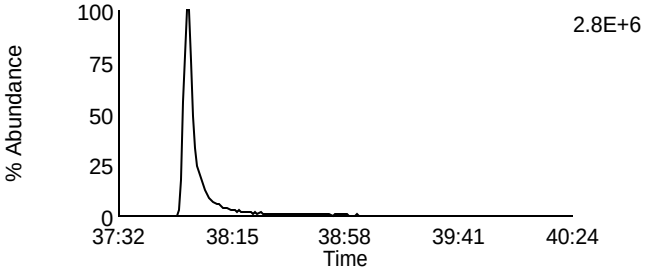
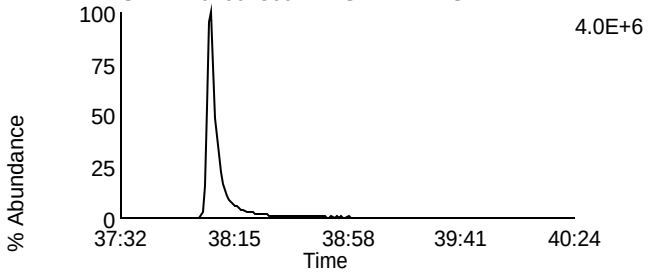
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G5 C5 - 443.7398
SAMP 10260486012-MS - BAL PASI-WI



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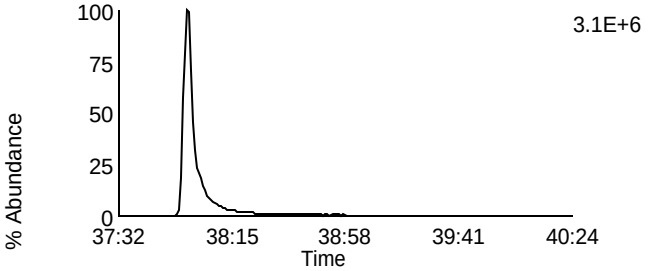
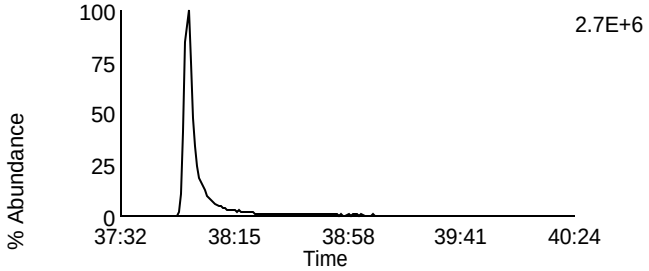
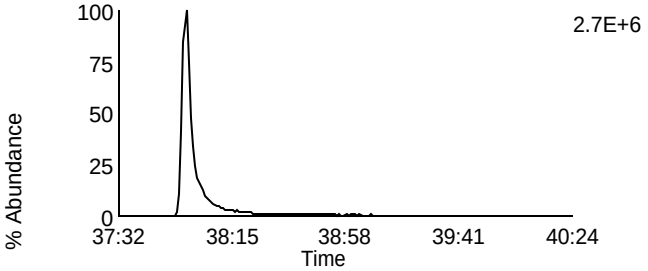
SAMP 10260486012-MS - BAL PASI-WI



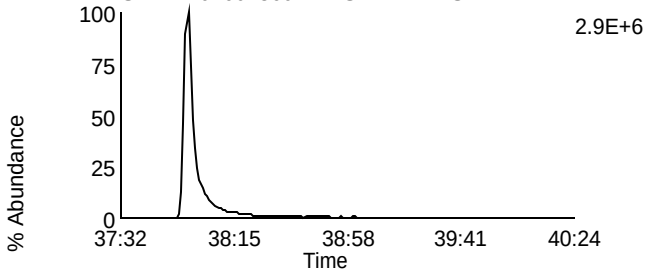
Data File: P140322B_16 G5 C11 - 469.7779
SAMP 10260486012-MS - BAL PASI-WI



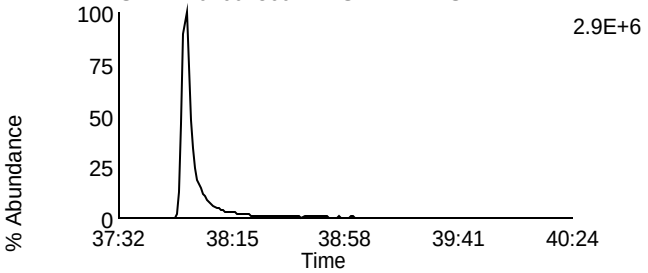
Data File: P140322B_16 G5 C11 - 469.7779
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G5 C12 - 471.7749
SAMP 10260486012-MS - BAL PASI-WI



Data File: P140322B_16 G5 C12 - 471.7749
SAMP 10260486012-MS - BAL PASI-WI



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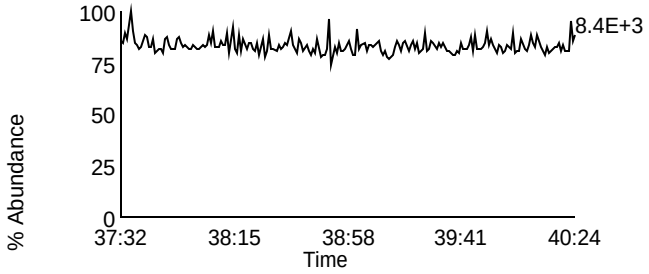
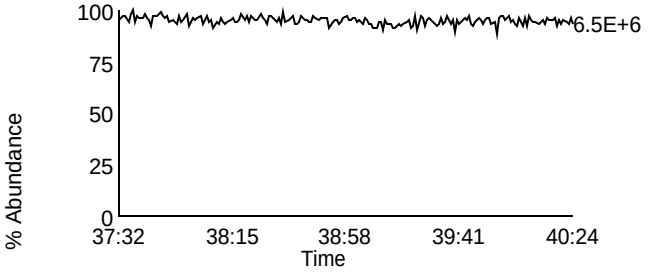


Data File: P140322B_16 G5 C2 - 430.9728
SAMP 10260486012-MS - BAL PASI-WI

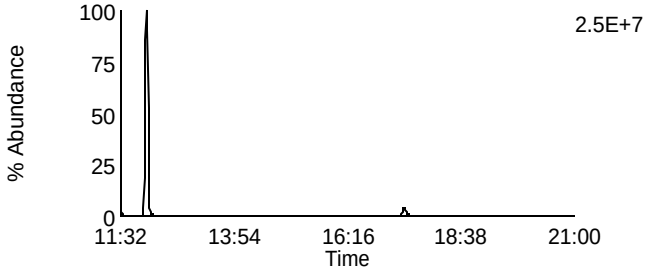


Homologue Group: Tetras

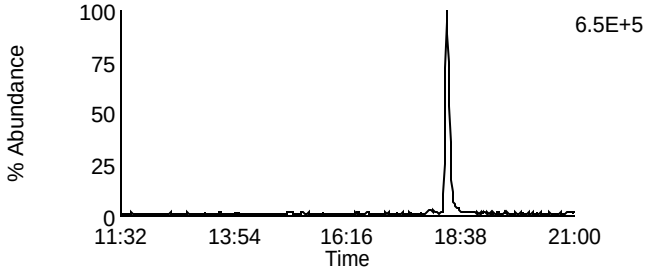
Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_17 G1 C1 - 303.9016
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C7 - 319.8965
SAMP 10260486012-MSD - BAL PASI-WI



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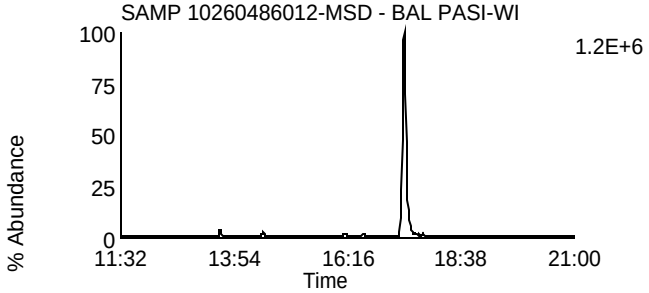
SAMP 10260486012-MSD - BAL PASI-WI



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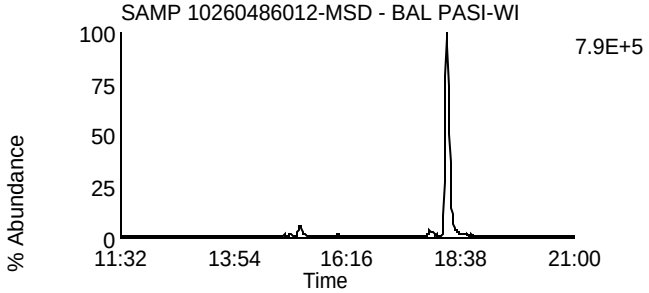
SAMP 10260486012-MSD - BAL PASI-WI



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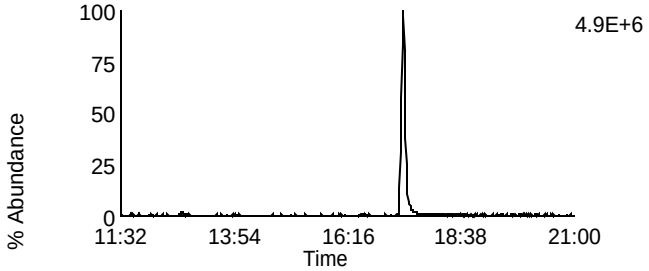
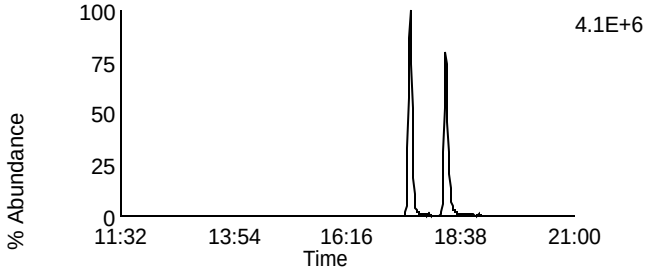
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C10 - 331.9367
SAMP 10260486012-MSD - BAL PASI-WI



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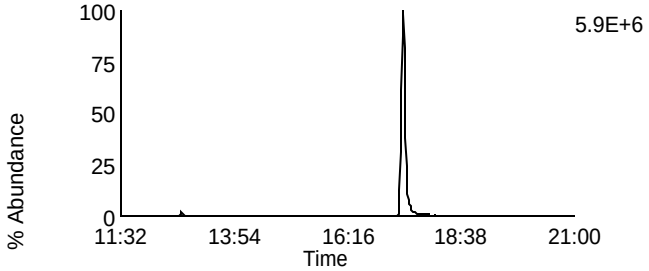
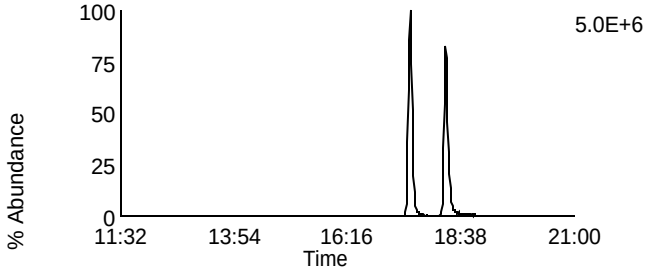
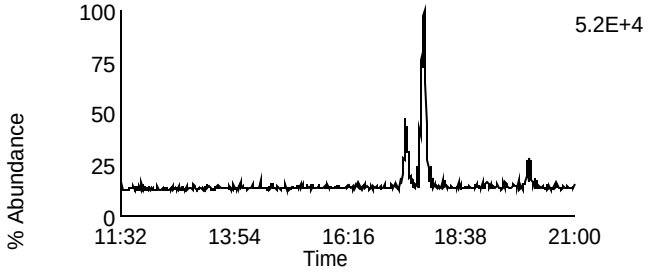
SAMP 10260486012-MSD - BAL PASI-WI



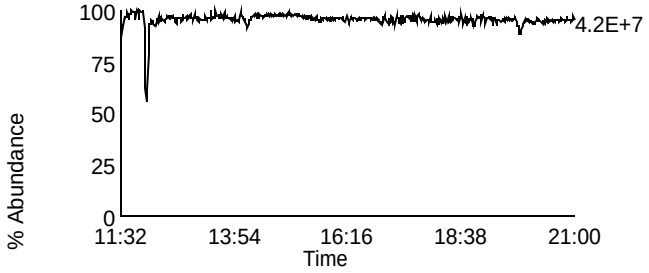
Data File: P140322B_17 G1 C11 - 333.9338
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C14 - 375.8364
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C5 - 318.9792
SAMP 10260486012-MSD - BAL PASI-WI

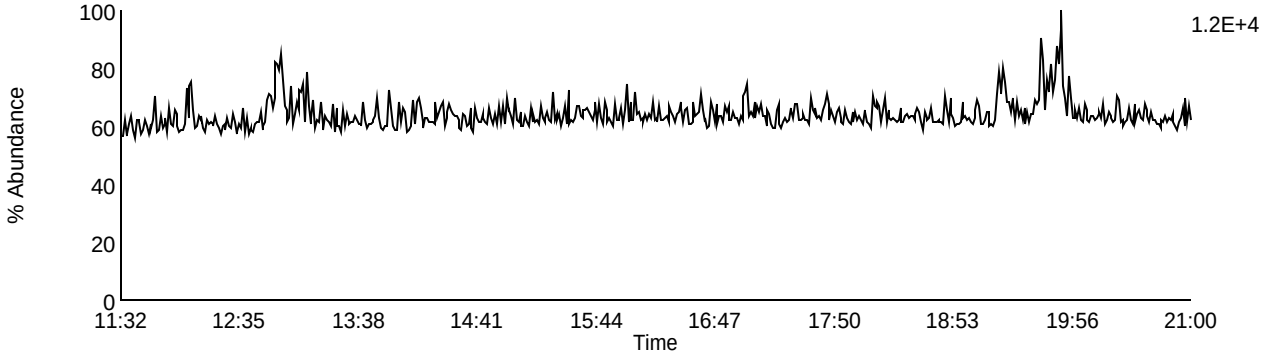


Homologue Group: Penta & Cleanup

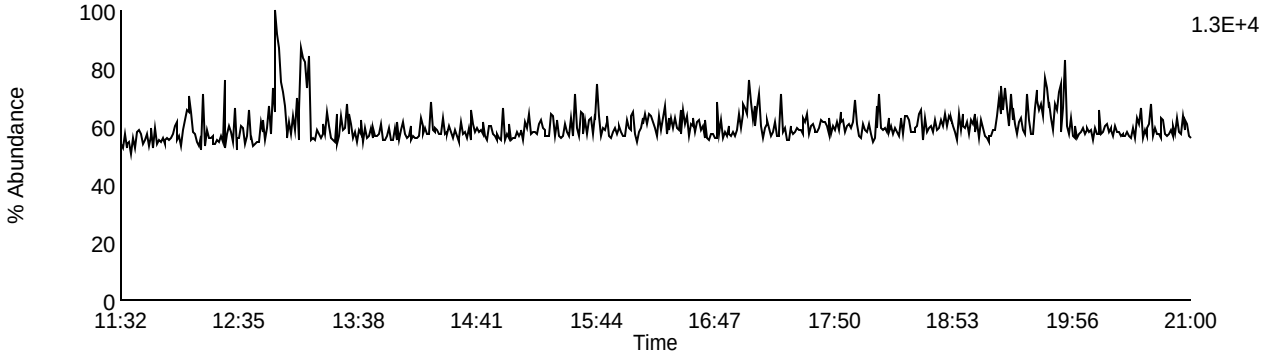
Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

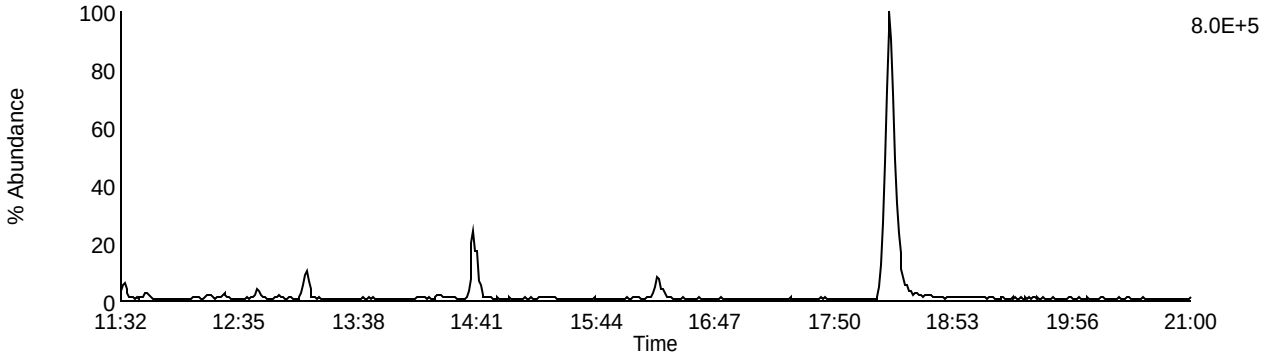
Data File: P140322B_17 G1 C12 - 339.8597
SAMP 10260486012-MSD - BAL PASI-WI



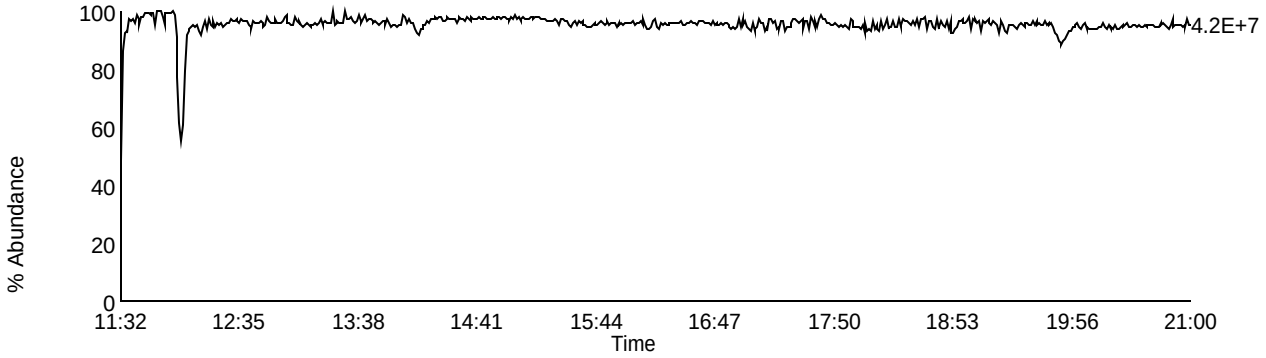
Data File: P140322B_17 G1 C13 - 341.8567
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C9 - 327.8847
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G1 C5 - 318.9792
SAMP 10260486012-MSD - BAL PASI-WI

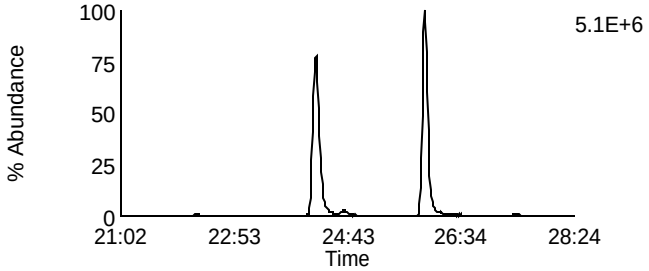


Homologue Group: Pentas

Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_17 G2 C1 - 339.8597
SAMP 10260486012-MSD - BAL PASI-WI



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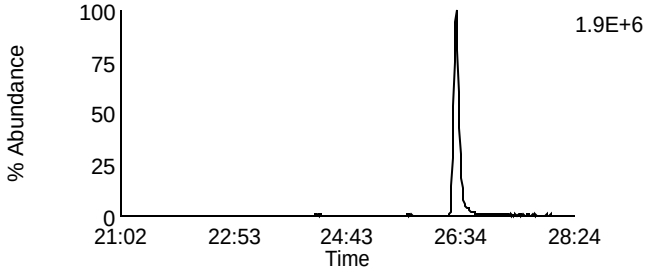
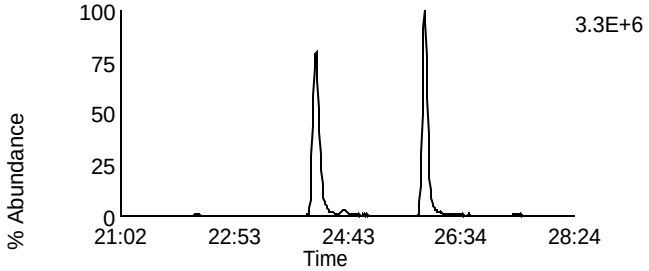
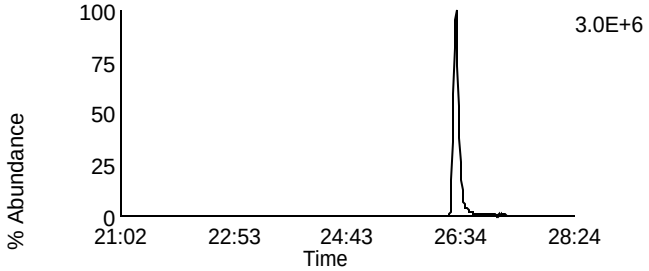
SAMP 10260486012-MSD - BAL PASI-WI



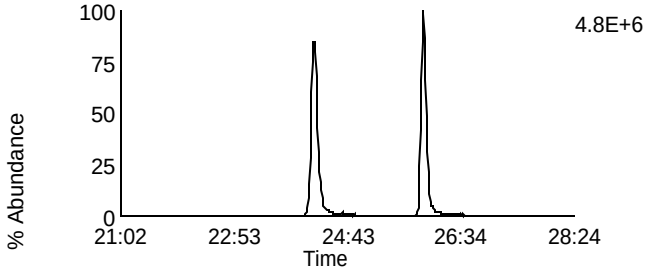
Data File: P140322B_17 G2 C2 - 341.8567
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G2 C8 - 355.8546
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G2 C3 - 351.8999
SAMP 10260486012-MSD - BAL PASI-WI



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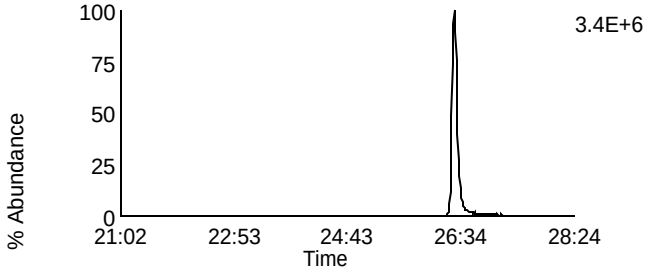
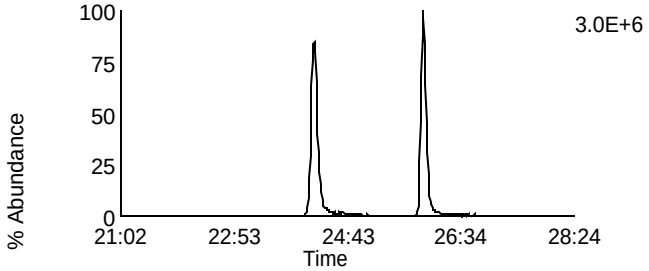
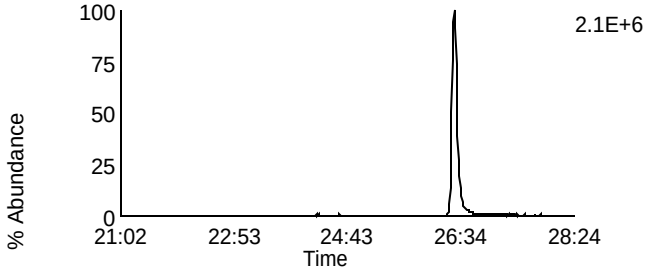
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G2 C5 - 353.8969
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G2 C11 - 369.8918
SAMP 10260486012-MSD - BAL PASI-WI



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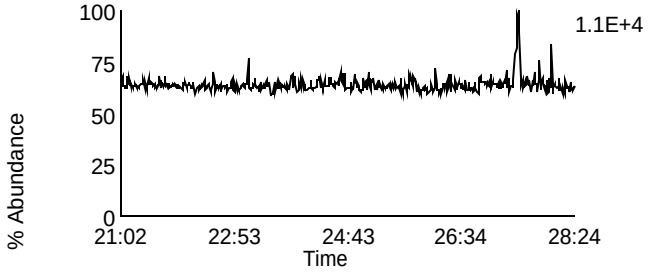
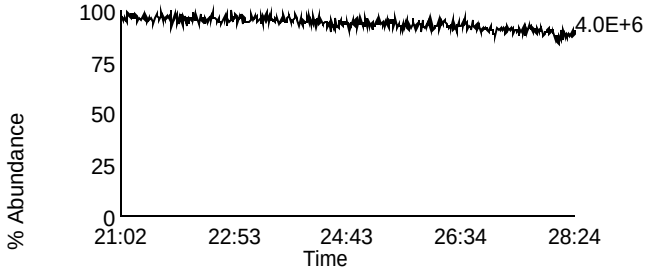
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G2 C6 - 354.9792
SAMP 10260486012-MSD - BAL PASI-WI

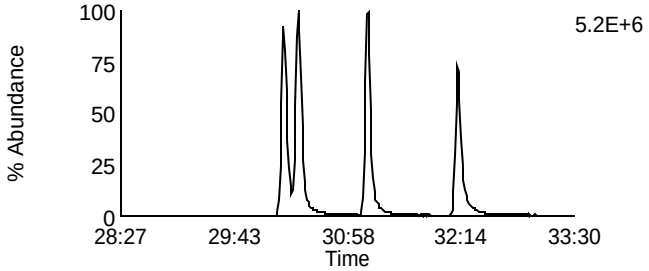


Homologue Group: Hexas

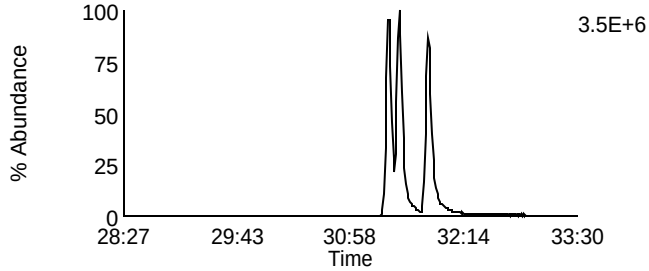
Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

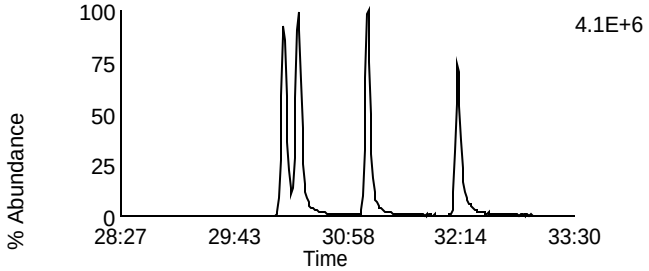
Data File: P140322B_17 G3 C1 - 373.8207
SAMP 10260486012-MSD - BAL PASI-WI



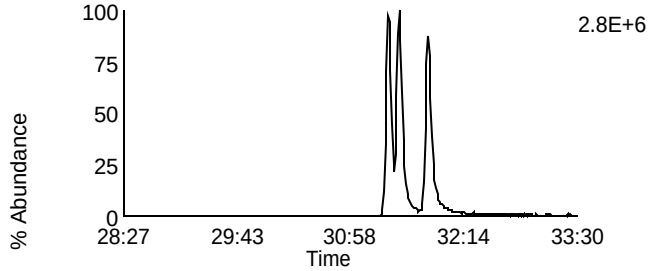
Data File: P140322B_17 G3 C7 - 389.8156
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G3 C2 - 375.8178
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G3 C8 - 391.8127
SAMP 10260486012-MSD - BAL PASI-WI



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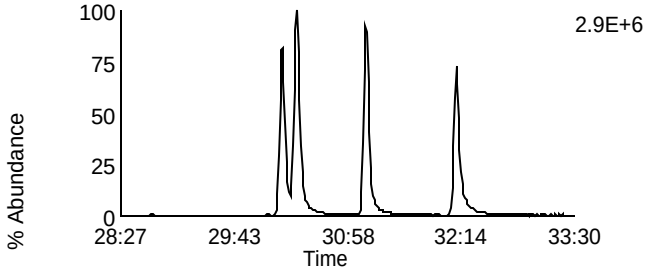
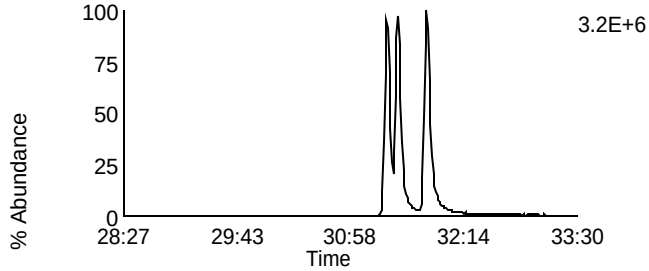
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G3 C9 - 401.8559
SAMP 10260486012-MSD - BAL PASI-WI



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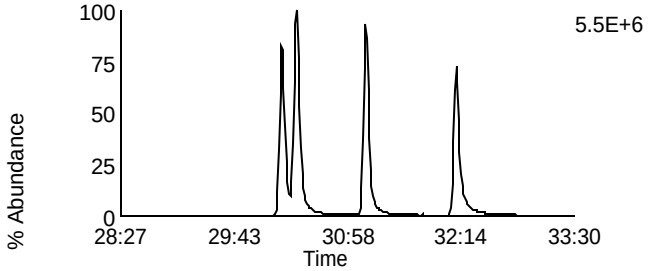
SAMP 10260486012-MSD - BAL PASI-WI



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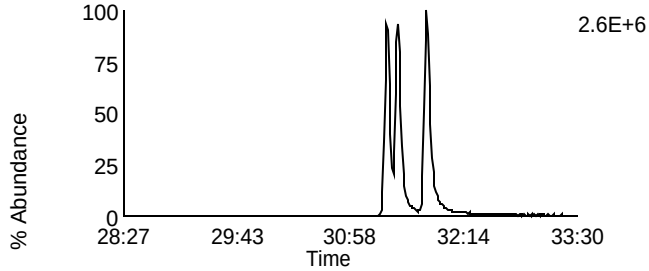
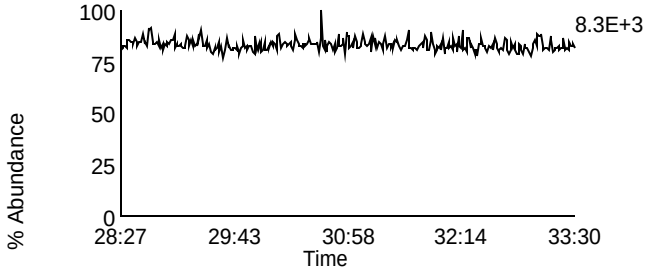
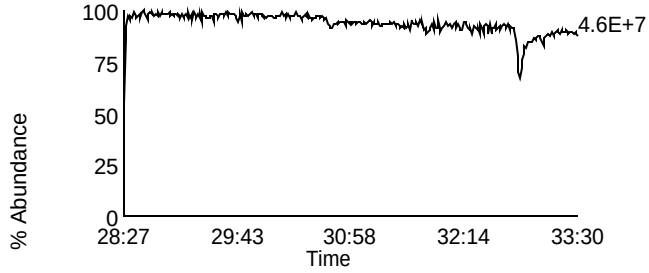
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G3 C11 - 445.7555
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G3 C3 - 380.976
SAMP 10260486012-MSD - BAL PASI-WI

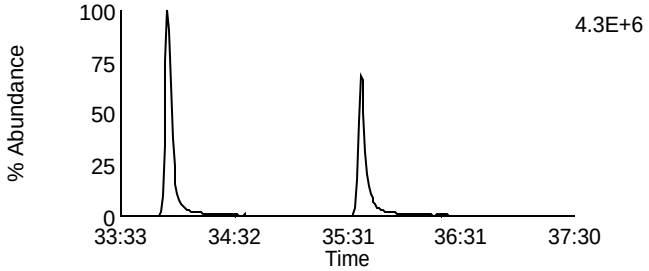


Homologue Group: Heptas

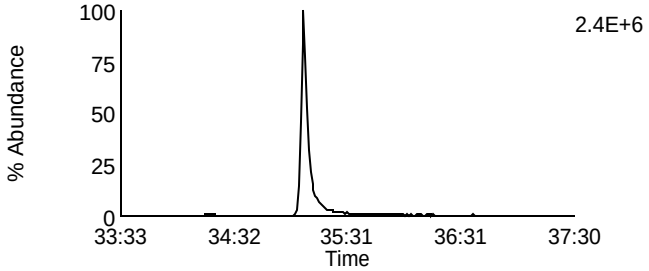
Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

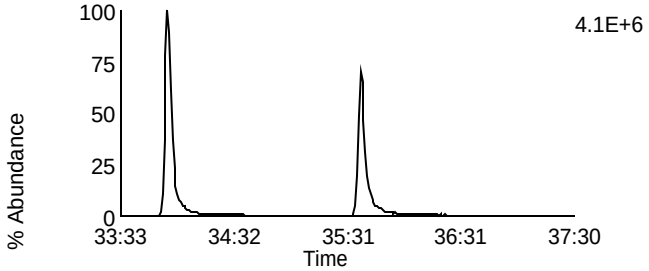
Data File: P140322B_17 G4 C3 - 407.7818
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G4 C8 - 423.7767
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G4 C4 - 409.7788
SAMP 10260486012-MSD - BAL PASI-WI



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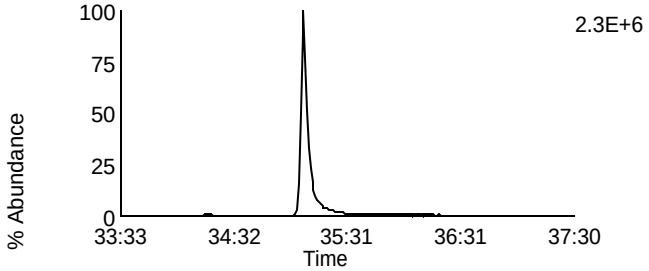
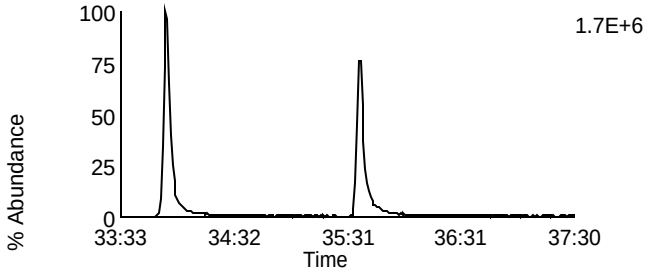
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G4 C6 - 417.825
SAMP 10260486012-MSD - BAL PASI-WI



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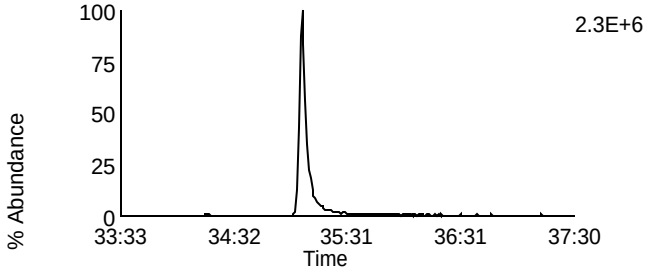
SAMP 10260486012-MSD - BAL PASI-WI



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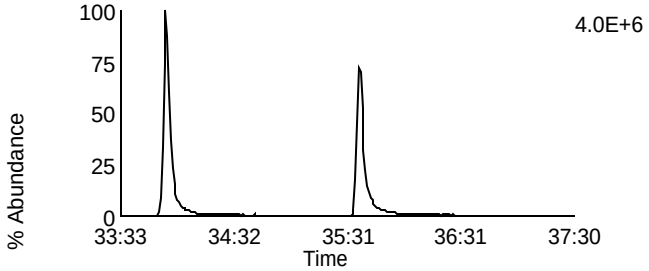
SAMP 10260486012-MSD - BAL PASI-WI



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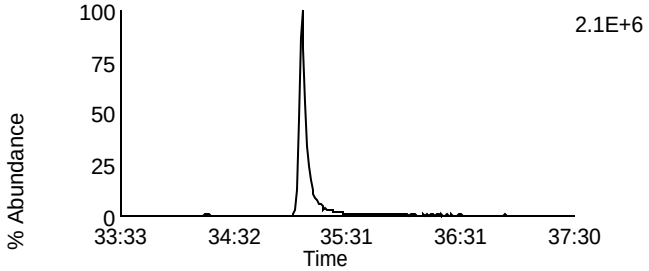
SAMP 10260486012-MSD - BAL PASI-WI



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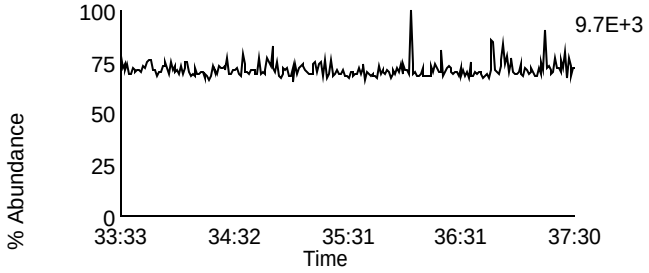
SAMP 10260486012-MSD - BAL PASI-WI



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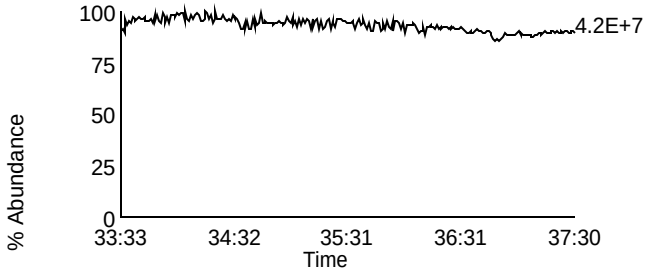
SAMP 10260486012-MSD - BAL PASI-WI

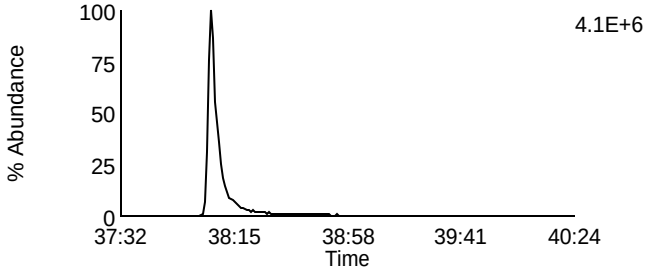


Homologue Group: Octas

Data File Name: P140322B_17
Date Acquired: 3/22/2014
Sample Description: SAMP 10260486012-MSD - BAL PASI-WI

Lab Sample ID: 10260486012-MSD
Client Sample ID: MAK123L-MSD
Instrument: 10MSHR09 (P)

Data File: P140322B_17 G5 C4 - 441.7428
SAMP 10260486012-MSD - BAL PASI-WI



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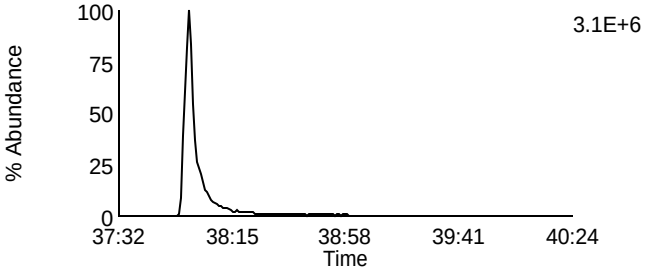
SAMP 10260486012-MSD - BAL PASI-WI



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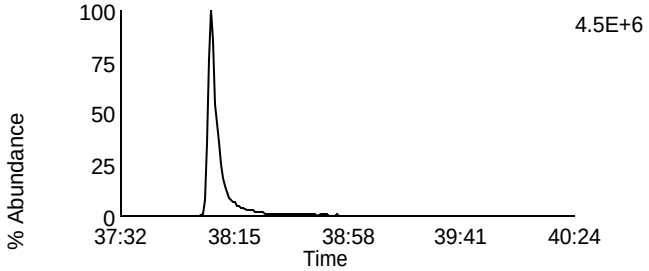
SAMP 10260486012-MSD - BAL PASI-WI



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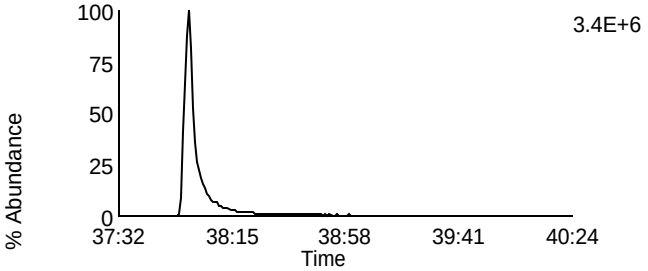
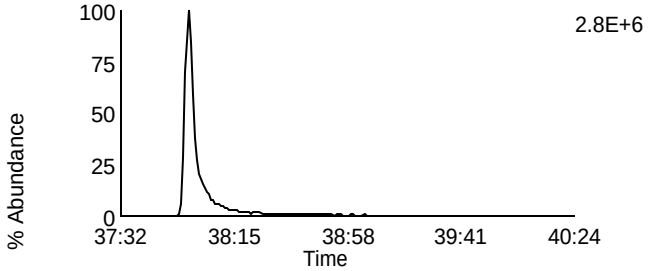
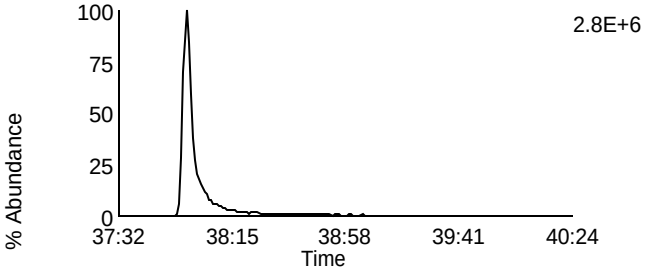
SAMP 10260486012-MSD - BAL PASI-WI



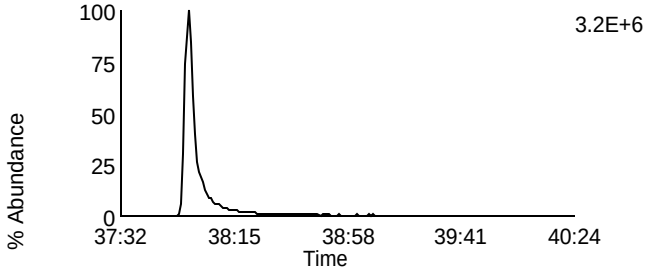
Data File: P140322B_17 G5 C11 - 469.7779
SAMP 10260486012-MSD - BAL PASI-WI



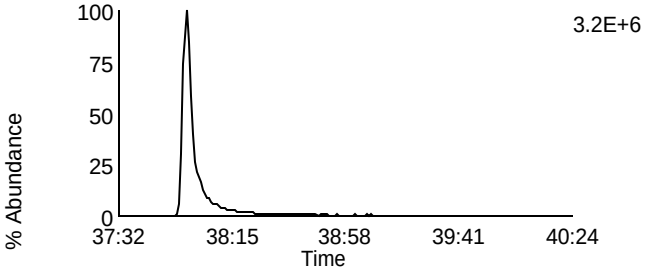
Data File: P140322B_17 G5 C11 - 469.7779
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G5 C12 - 471.7749
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G5 C12 - 471.7749
SAMP 10260486012-MSD - BAL PASI-WI



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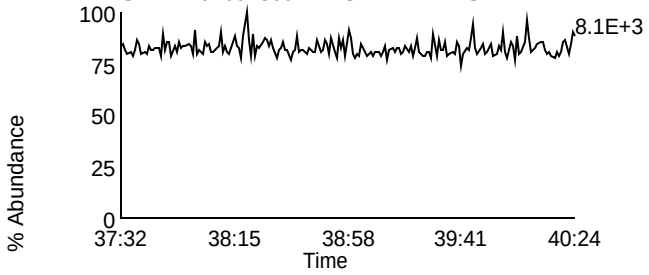
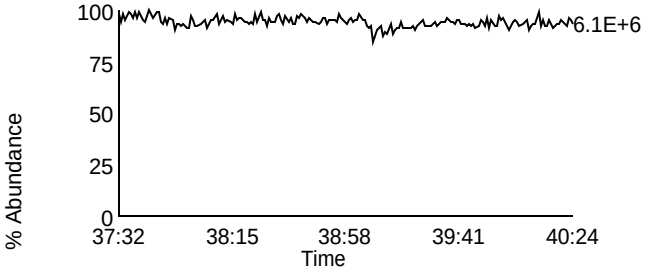
SAMP 10260486012-MSD - BAL PASI-WI



Data File: P140322B_17 G5 C2 - 430.9728
SAMP 10260486012-MSD - BAL PASI-WI



Pace Analytical Services, Inc.
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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	BAL
Lab ID	BLANK-39710	Instrument ID	10MSHR09 (P)
Filename	P140321B_08	GC Column ID	USC473217H
Analyzed	03/21/2014 20:20	ICAL ID	P130624

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		17:28	1.76e7	2.22e7	2.92e6	3.57e6	8.534e3	3.093e3	0.80	
2,3,7,8-TCDF		17:28	1.08e4	1.46e4	2.07e3	3.82e3	7.307e2	8.959e2	0.74	
Other TCDF	1	15:07	1.06e4	1.48e4					0.72	
	2	14:11	1.06e4	1.30e4					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	17:37	2.75e7	3.44e7	5.01e6	6.26e6	3.130e3	1.075e3	0.80	
2,3,7,8-TCDD-13C	18:22	1.25e7	1.55e7	1.93e6	2.40e6	4.620e3	1.203e4	0.80	
2,3,7,8-TCDD-37Cl4	18:24	3.00e6		4.72e5		1.648e3	-----		
2,3,7,8-TCDD	18:24	ND	ND	ND	ND	8.292e2	9.917e2		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	24:14	1.70e7	1.07e7	2.28e6	1.37e6	8.368e3	3.871e3	1.59	
2,3,4,7,8-PeCDF-13C	25:59	1.63e7	1.03e7	2.57e6	1.60e6	2.856e3	2.102e3	1.59	
1,2,3,7,8-PeCDF	24:16	ND	ND	ND	ND	6.997e2	8.063e2		
2,3,4,7,8-PeCDF	26:01	ND	ND	ND	ND	5.734e2	7.580e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:30	1.08e7	6.88e6	1.74e6	1.09e6	1.968e3	1.391e3	1.58	
1,2,3,7,8-PeCDD	26:31	ND	ND	ND	ND	5.994e2	6.076e2		

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	30:16	5.67e6	1.05e7	1.22e6	2.40e6	6.291e2	6.635e2	0.54	
1,2,3,6,7,8-HxCDF-13C	30:27	7.38e6	1.43e7	1.48e6	2.79e6	3.305e2	4.484e2	0.51	
2,3,4,6,7,8-HxCDF-13C	31:12	6.19e6	1.23e7	1.48e6	2.77e6	6.684e2	6.635e2	0.50	
1,2,3,7,8,9-HxCDF-13C	32:12	5.48e6	1.07e7	1.11e6	2.13e6	1.778e3	2.235e3	0.51	
1,2,3,4,7,8-HxCDF	30:17	ND	ND	ND	ND	4.937e2	6.076e2		
1,2,3,6,7,8-HxCDF	30:28	ND	ND	ND	ND	5.821e2	7.413e2		
2,3,4,6,7,8-HxCDF	31:14	ND	ND	ND	ND	7.238e2	6.346e2		

REPORT OF LABORATORY ANALYSIS

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Fax: 612- 607-6444

Client ID		Injected By	BAL
Lab ID	BLANK-39710	Instrument ID	10MSHR09 (P)
Filename	P140321B_08	GC Column ID	USC473217H
Analyzed	03/21/2014 20:20	ICAL ID	P130624

1,2,3,7,8,9-HxCDF	32:13	ND	ND	ND	ND	5.951e2	4.415e2		

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	31:24	6.44e6	5.00e6	1.62e6	1.26e6	7.103e2	1.376e3	1.29	
1,2,3,6,7,8-HxCDD-13C	31:32	8.15e6	6.35e6	1.69e6	1.30e6	6.238e2	1.449e3	1.28	
1,2,3,7,8,9-HxCDD-13C	31:50	1.77e7	1.44e7	3.45e6	2.73e6	5.861e3	4.998e3	1.23	
1,2,3,4,7,8-HxCDD	31:25	ND	ND	ND	ND	4.852e2	6.245e2		
1,2,3,6,7,8-HxCDD	31:33	ND	ND	ND	ND	5.224e2	5.994e2		
1,2,3,7,8,9-HxCDD	31:51	ND	ND	ND	ND	4.052e2	6.434e2		

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	33:58	4.03e6	8.95e6	9.47e5	2.19e6	1.509e3	2.933e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	3.07e6	6.71e6	6.89e5	1.51e6	1.707e3	3.884e3	0.46	
1,2,3,4,6,7,8-HpCDF	33:59	6.00e3	3.56e3	1.80e3	1.21e3	5.180e2	7.432e2	1.69	I
1,2,3,4,7,8,9-HpCDF	35:40	ND	ND	ND	ND	4.671e2	4.442e2		

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	35:09	5.10e6	4.80e6	1.22e6	1.15e6	9.024e2	1.375e3	1.06	
1,2,3,4,6,7,8-HpCDD	35:10	8.15e3	6.43e3	2.38e3	1.40e3	5.806e2	4.278e2	1.27	I
Other HpCDD 1	34:19	4.86e3	4.05e3					1.20	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	6.94e3	8.55e3	2.79e3	2.44e3	7.836e2	8.436e2	0.81	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	6.36e6	7.22e6	1.54e6	1.71e6	1.478e3	1.130e3	0.88	
OCDD	37:59	1.23e4	1.09e4	3.61e3	4.51e3	5.192e2	6.411e2	1.13	I

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	BLANK-39803	Instrument ID	10MSHR06 (U)
Filename	U140328B_12	GC Column ID	USD397111H
Analyzed	03/29/2014 01:26	ICAL ID	U140322

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		21:13	3.08e8	3.96e8	5.50e7	7.08e7	3.642e4	9.734e4	0.78	
2,3,7,8-TCDF		21:14	1.25e5	1.75e5	2.10e4	4.53e4	3.320e3	3.546e3	0.71	
Other TCDF	1	18:00	5.37e4	7.20e4					0.75	
	2	18:22	8.49e4	1.04e5					0.82	
	3	19:44	5.85e4	8.83e4					0.66	
	4	20:14	9.84e4	1.29e5					0.76	
	5	17:38	1.33e5	1.80e5					0.74	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		21:30	2.99e8	3.79e8	4.93e7	6.26e7	1.721e4	1.191e4	0.79	
2,3,7,8-TCDD-13C		22:22	2.39e8	3.04e8	3.91e7	4.93e7	5.397e4	5.936e4	0.79	
2,3,7,8-TCDD-37Cl4		22:23	6.49e7		1.04e7		6.931e3	-----		
2,3,7,8-TCDD		22:24	ND	ND	ND	ND	2.558e3	3.162e3		
Other TCDD	1	18:19	4.91e5	5.83e5					0.84	
	2	18:40	2.09e5	2.91e5					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		29:11	3.42e8	2.18e8	6.30e7	4.11e7	1.112e5	1.139e5	1.57	
2,3,4,7,8-PeCDF-13C		30:39	3.36e8	2.21e8	7.86e7	5.15e7	1.723e4	4.894e4	1.52	
1,2,3,7,8-PeCDF		29:12	4.56e4	4.22e4	1.03e4	1.22e4	2.117e3	1.867e3	1.08	I
2,3,4,7,8-PeCDF		30:41	5.21e4	3.37e4	1.17e4	8.04e3	2.106e3	1.922e3	1.55	
Other PeCDF	1	24:07	7.08e4	5.05e4					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	31:04	2.76e8	1.76e8	6.90e7	4.32e7	3.040e3	2.262e4	1.56	
1,2,3,7,8-PeCDD	31:06	2.56e4	5.79e4	4.75e4	2.41e4	3.679e3	3.392e3	0.44	I

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:58	1.33e8	2.61e8	4.40e7	8.83e7	2.994e5	5.107e5	0.51	

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Client ID		Injected By	BAL
Lab ID	BLANK-39803	Instrument ID	10MSHR06 (U)
Filename	U140328B_12	GC Column ID	USD397111H
Analyzed	03/29/2014 01:26	ICAL ID	U140322

1,2,3,6,7,8-HxCDF-13C	34:06	1.61e8	3.12e8	5.01e7	9.87e7	2.979e5	1.125e4	0.52	
2,3,4,6,7,8-HxCDF-13C	34:38	1.46e8	2.83e8	5.09e7	1.01e8	8.151e3	1.006e4	0.52	
1,2,3,7,8,9-HxCDF-13C	35:23	1.29e8	2.50e8	4.70e7	9.14e7	3.151e4	3.410e4	0.51	
1,2,3,4,7,8-HxCDF	33:59	2.77e4	1.29e4	1.16e4	7.49e3	3.938e3	2.436e3	2.15	I
1,2,3,6,7,8-HxCDF	34:06	3.07e4	3.15e4	1.76e4	1.20e4	4.145e3	2.436e3	0.98	I
2,3,4,6,7,8-HxCDF	34:38	4.19e4	1.24e4	1.78e4	4.79e3	4.203e3	2.433e3	3.39	I
1,2,3,7,8,9-HxCDF	35:24	ND	ND	ND	ND	4.126e3	2.813e3		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:48	2.04e8	1.63e8	7.41e7	5.71e7	1.957e5	1.816e5	1.26	
1,2,3,6,7,8-HxCDD-13C	34:53	2.03e8	1.68e8	7.61e7	6.16e7	1.957e5	1.816e5	1.21	
1,2,3,7,8,9-HxCDD-13C	35:07	2.90e8	2.35e8	1.08e8	8.86e7	6.406e3	1.638e5	1.23	
1,2,3,4,7,8-HxCDD	34:47	4.88e4	4.00e4	1.75e4	1.33e4	4.885e3	4.619e3	1.22	
1,2,3,6,7,8-HxCDD	34:53	5.28e4	1.86e4	1.76e4	1.33e4	4.825e3	4.699e3	2.84	I
1,2,3,7,8,9-HxCDD	35:08	2.31e4	4.16e4	3.78e3	1.38e4	4.005e3	4.433e3	0.55	I

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:38	1.15e8	2.56e8	4.32e7	9.49e7	8.718e3	4.195e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:57	9.14e7	2.04e8	3.37e7	7.41e7	5.547e3	3.128e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:38	5.71e4	4.74e4	1.44e4	2.77e4	1.042e4	5.691e3	1.20	
1,2,3,4,7,8,9-HpCDF	37:57	ND	ND	ND	ND	9.266e3	5.735e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.59e8	1.49e8	6.04e7	5.61e7	2.066e4	1.311e4	1.07	
1,2,3,4,6,7,8-HpCDD	37:31	9.92e4	7.18e4	2.59e4	3.19e4	3.690e3	3.833e3	1.38	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:17	1.19e5	8.56e4	4.26e4	2.91e4	7.481e3	6.383e3	1.39	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:06	2.34e8	2.58e8	7.70e7	8.47e7	2.018e4	1.551e4	0.91	

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Client ID		Injected By	BAL
Lab ID	BLANK-39803	Instrument ID	10MSHR06 (U)
Filename	U140328B_12	GC Column ID	USD397111H
Analyzed	03/29/2014 01:26	ICAL ID	U140322

OCDD	40:07	2.01e5	2.52e5	5.32e4	6.74e4	8.149e3	7.458e3	0.79

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSVB	Injected By	BAL
Lab ID	LCS-39711	Instrument ID	10MSHR09 (P)
Filename	P140321B_06	GC Column ID	USC473217H
Analyzed	03/21/2014 18:55	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:28	3.66e7	4.57e7	6.44e6	7.91e6	-----	-----	0.80	
2,3,7,8-TCDF	17:29	7.27e6	9.59e6	1.28e6	1.64e6	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:38	2.87e7	3.60e7	5.38e6	6.81e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	18:22	2.56e7	3.25e7	4.28e6	5.55e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:24	6.48e6		1.09e6		-----	-----		
2,3,7,8-TCDD	18:24	5.14e6	6.54e6	8.78e5	1.06e6	-----	-----	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	24:14	3.83e7	2.39e7	5.33e6	3.37e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	26:00	3.71e7	2.32e7	6.23e6	3.87e6	-----	-----	1.60	
1,2,3,7,8-PeCDF	24:17	3.94e7	2.53e7	5.32e6	3.52e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	26:02	3.91e7	2.59e7	6.60e6	4.34e6	-----	-----	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	26:30	2.58e7	1.60e7	4.29e6	2.75e6	-----	-----	1.61	
1,2,3,7,8-PeCDD	26:32	1.51e7	2.42e7	2.51e6	3.99e6	-----	-----	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	30:17	1.38e7	2.62e7	3.22e6	6.19e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:27	1.79e7	3.42e7	3.89e6	7.19e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:13	1.54e7	2.98e7	3.50e6	6.64e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	32:13	1.39e7	2.59e7	2.82e6	5.35e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	30:18	2.79e7	2.26e7	6.51e6	5.27e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	30:27	3.46e7	2.73e7	6.97e6	5.57e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	31:14	3.12e7	2.48e7	7.15e6	5.56e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:14	2.59e7	2.09e7	5.32e6	4.30e6	-----	-----	1.24	

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Client ID	DLCSVB	Injected By	BAL
Lab ID	LCS-39711	Instrument ID	10MSHR09 (P)
Filename	P140321B_06	GC Column ID	USC473217H
Analyzed	03/21/2014 18:55	ICAL ID	P130624

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	31:25	1.66e7	1.32e7	4.20e6	3.33e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	31:32	1.97e7	1.54e7	4.42e6	3.40e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	31:51	2.31e7	1.80e7	4.85e6	3.83e6	-----	-----	1.28	
1,2,3,4,7,8-HxCDD	31:25	1.85e7	1.47e7	4.54e6	3.65e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:33	2.23e7	1.76e7	4.93e6	3.93e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD	31:52	2.10e7	1.71e7	4.40e6	3.52e6	-----	-----	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	33:59	1.04e7	2.30e7	2.53e6	5.51e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:39	7.63e6	1.73e7	1.86e6	4.07e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	33:59	2.47e7	2.42e7	5.95e6	5.78e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	35:40	1.78e7	1.69e7	4.10e6	3.89e6	-----	-----	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	35:09	1.36e7	1.24e7	3.08e6	2.93e6	-----	-----	1.10	
1,2,3,4,6,7,8-HpCDD	35:10	1.42e7	1.37e7	3.35e6	3.16e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	2.49e7	2.71e7	5.89e6	6.52e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.72e7	1.89e7	4.00e6	4.47e6	-----	-----	0.91	
OCDD	38:00	1.88e7	2.19e7	4.55e6	5.34e6	-----	-----	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	DLCSWH	Injected By	BAL
Lab ID	LCS-39804	Instrument ID	10MSHR06 (U)
Filename	U140328B_05	GC Column ID	USD397111H
Analyzed	03/28/2014 20:12	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:15	2.23e8	2.88e8	3.85e7	4.90e7	-----	-----	0.77	
2,3,7,8-TCDF	21:16	3.48e7	4.58e7	6.10e6	8.10e6	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:32	1.95e8	2.46e8	3.33e7	4.25e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	22:23	1.75e8	2.21e8	2.89e7	3.65e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	22:25	4.53e7		7.31e6		-----	-----		
2,3,7,8-TCDD	22:25	3.19e7	4.12e7	5.09e6	6.79e6	-----	-----	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	29:12	2.40e8	1.56e8	4.55e7	2.91e7	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	30:40	2.37e8	1.53e8	5.78e7	3.63e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	29:13	1.87e8	1.24e8	3.53e7	2.32e7	-----	-----	1.51	
2,3,4,7,8-PeCDF	30:41	1.87e8	1.25e8	4.61e7	3.05e7	-----	-----	1.49	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	31:05	1.96e8	1.25e8	4.93e7	3.16e7	-----	-----	1.56	
1,2,3,7,8-PeCDD	31:06	9.42e7	1.57e8	2.40e7	3.98e7	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:59	9.47e7	1.85e8	3.34e7	6.42e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	34:06	1.11e8	2.19e8	3.94e7	7.61e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:39	1.01e8	1.96e8	3.63e7	7.10e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:24	9.13e7	1.74e8	3.22e7	6.19e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	34:00	1.48e8	1.23e8	5.25e7	4.32e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:07	1.57e8	1.33e8	5.44e7	4.69e7	-----	-----	1.18	
2,3,4,6,7,8-HxCDF	34:40	1.52e8	1.27e8	5.63e7	4.66e7	-----	-----	1.20	
1,2,3,7,8,9-HxCDF	35:25	1.30e8	1.08e8	4.51e7	3.78e7	-----	-----	1.21	

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Client ID	DLCSWH	Injected By	BAL
Lab ID	LCS-39804	Instrument ID	10MSHR06 (U)
Filename	U140328B_05	GC Column ID	USD397111H
Analyzed	03/28/2014 20:12	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:48	1.43e8	1.14e8	5.11e7	4.15e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	34:53	1.51e8	1.20e8	5.37e7	4.42e7	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:08	1.80e8	1.48e8	6.19e7	5.06e7	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	34:49	1.32e8	1.08e8	5.04e7	4.12e7	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	34:54	1.37e8	1.11e8	5.28e7	4.32e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:08	1.35e8	1.11e8	4.80e7	3.96e7	-----	-----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:39	8.18e7	1.80e8	3.44e7	7.47e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:57	6.30e7	1.43e8	2.25e7	5.29e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	36:39	1.77e8	1.71e8	7.38e7	6.93e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	37:57	1.30e8	1.26e8	4.99e7	4.86e7	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.12e8	1.04e8	4.19e7	3.79e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:31	1.10e8	1.04e8	4.16e7	4.10e7	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:18	1.61e8	1.82e8	5.32e7	6.05e7	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:06	1.60e8	1.79e8	5.10e7	5.72e7	-----	-----	0.90	
OCDD	40:07	1.58e8	1.79e8	5.21e7	5.98e7	-----	-----	0.88	

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Reviewed By_____ Date _____

Client ID	DLCSWI	Injected By	BAL
Lab ID	LCSD-39805	Instrument ID	10MSHR06 (U)
Filename	U140328B_06	GC Column ID	USD397111H
Analyzed	03/28/2014 20:57	ICAL ID	U140322

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	21:15	2.25e8	2.92e8	3.97e7	5.19e7	-----	-----	0.77	
2,3,7,8-TCDF	21:16	3.82e7	5.12e7	6.45e6	8.79e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	21:32	2.13e8	2.68e8	3.57e7	4.51e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	22:23	1.78e8	2.27e8	2.93e7	3.59e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	22:26	4.80e7		7.35e6		-----	-----		
2,3,7,8-TCDD	22:25	3.52e7	4.58e7	5.57e6	7.22e6	-----	-----	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	29:12	2.54e8	1.65e8	4.86e7	3.13e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	30:40	2.50e8	1.62e8	6.17e7	3.91e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	29:14	2.13e8	1.44e8	4.13e7	2.75e7	-----	-----	1.48	
2,3,4,7,8-PeCDF	30:41	2.19e8	1.44e8	5.47e7	3.61e7	-----	-----	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	31:05	2.05e8	1.32e8	5.23e7	3.30e7	-----	-----	1.56	
1,2,3,7,8-PeCDD	31:06	1.09e8	1.83e8	2.69e7	4.66e7	-----	-----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:59	1.00e8	1.95e8	3.52e7	6.67e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	34:06	1.14e8	2.23e8	3.88e7	7.66e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:39	1.02e8	2.01e8	3.79e7	7.27e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:23	9.19e7	1.79e8	3.21e7	6.38e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	34:00	1.70e8	1.42e8	5.91e7	4.90e7	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	34:07	1.82e8	1.52e8	6.18e7	5.19e7	-----	-----	1.20	
2,3,4,6,7,8-HxCDF	34:40	1.71e8	1.45e8	6.22e7	5.23e7	-----	-----	1.18	
1,2,3,7,8,9-HxCDF	35:24	1.45e8	1.20e8	5.07e7	4.33e7	-----	-----	1.21	

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Client ID	DLCSWI	Injected By	BAL
Lab ID	LCSD-39805	Instrument ID	10MSHR06 (U)
Filename	U140328B_06	GC Column ID	USD397111H
Analyzed	03/28/2014 20:57	ICAL ID	U140322

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:48	1.44e8	1.15e8	5.60e7	4.42e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	34:53	1.54e8	1.23e8	5.58e7	4.47e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:08	2.03e8	1.63e8	7.23e7	5.65e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:48	1.50e8	1.23e8	5.54e7	4.59e7	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	34:54	1.56e8	1.26e8	5.81e7	4.77e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	35:08	1.53e8	1.28e8	5.54e7	4.71e7	-----	-----	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	36:38	8.14e7	1.81e8	3.38e7	7.34e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	37:57	6.19e7	1.37e8	2.36e7	5.32e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:39	1.93e8	1.85e8	7.77e7	7.19e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	37:57	1.41e8	1.37e8	5.41e7	5.20e7	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	37:31	1.09e8	1.02e8	4.03e7	3.82e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	37:31	1.19e8	1.15e8	4.60e7	4.46e7	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:17	1.78e8	2.04e8	5.55e7	6.42e7	-----	-----	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:06	1.58e8	1.78e8	5.16e7	6.02e7	-----	-----	0.89	
OCDD	40:07	1.77e8	2.00e8	5.99e7	6.69e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK114C-MS	Injected By	BAL
Lab ID	10260486003-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_10	GC Column ID	USC473217H
Analyzed	03/22/2014 18:36	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:27	2.83e7	3.59e7	4.95e6	6.16e6	-----	-----	0.79	
2,3,7,8-TCDF	17:27	5.55e6	7.54e6	9.45e5	1.27e6	-----	-----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:36	2.42e7	3.01e7	4.39e6	5.53e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	18:20	2.02e7	2.53e7	3.32e6	4.11e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	18:21	5.07e6		8.10e5		-----	-----		
2,3,7,8-TCDD	18:21	4.06e6	5.28e6	6.57e5	8.26e5	-----	-----	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	24:13	3.13e7	1.93e7	4.30e6	2.70e6	-----	-----	1.62	
2,3,4,7,8-PeCDF-13C	25:58	2.97e7	1.85e7	4.80e6	3.05e6	-----	-----	1.61	
1,2,3,7,8-PeCDF	24:14	3.21e7	2.06e7	4.20e6	2.82e6	-----	-----	1.56	
2,3,4,7,8-PeCDF	25:60	3.09e7	1.99e7	5.03e6	3.27e6	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:29	2.09e7	1.30e7	3.43e6	2.13e6	-----	-----	1.61	
1,2,3,7,8-PeCDD	26:30	1.22e7	1.95e7	1.94e6	3.10e6	-----	-----	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	30:16	1.07e7	2.04e7	2.44e6	4.68e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:26	1.38e7	2.65e7	2.85e6	5.31e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:12	1.17e7	2.25e7	2.65e6	4.90e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	32:13	1.06e7	2.01e7	2.02e6	3.87e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	30:17	2.23e7	1.75e7	4.95e6	4.02e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDF	30:27	2.66e7	2.10e7	5.23e6	4.10e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	31:13	2.35e7	1.93e7	5.28e6	4.34e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	32:14	1.99e7	1.57e7	3.89e6	3.02e6	-----	-----	1.27	

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Client Name	PASI Wisconsin		
Client ID	MAK114C-MS	Injected By	BAL
Lab ID	10260486003-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_10	GC Column ID	USC473217H
Analyzed	03/22/2014 18:36	ICAL ID	P130624

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	31:24	1.21e7	9.69e6	3.17e6	2.50e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	31:31	1.51e7	1.18e7	3.15e6	2.54e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	31:51	1.76e7	1.43e7	3.45e6	2.90e6	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	31:25	1.39e7	1.11e7	3.56e6	2.78e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:32	1.71e7	1.35e7	3.50e6	2.83e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	31:52	1.57e7	1.26e7	3.02e6	2.41e6	-----	-----	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	33:59	7.57e6	1.71e7	1.84e6	4.01e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:39	6.20e6	1.35e7	1.39e6	3.04e6	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	33:59	1.87e7	1.76e7	4.44e6	4.23e6	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	35:40	1.42e7	1.33e7	3.15e6	2.99e6	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	35:09	1.07e7	9.91e6	2.43e6	2.25e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	35:10	1.12e7	1.08e7	2.58e6	2.43e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	1.89e7	2.05e7	4.20e6	4.57e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.33e7	1.49e7	2.73e6	3.12e6	-----	-----	0.89	
OCDD	37:60	1.55e7	1.73e7	3.34e6	3.73e6	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK114C-MSD	Injected By	BAL
Lab ID	10260486003-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_11	GC Column ID	USC473217H
Analyzed	03/22/2014 19:18	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:25	3.43e7	4.30e7	5.91e6	7.27e6	-----	-----	0.80	
2,3,7,8-TCDF	17:27	6.56e6	8.61e6	1.10e6	1.45e6	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:34	2.69e7	3.39e7	4.80e6	6.05e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:19	2.42e7	3.10e7	3.96e6	4.91e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	18:20	5.55e6		8.77e5		-----	-----		
2,3,7,8-TCDD	18:20	4.54e6	6.01e6	7.56e5	9.81e5	-----	-----	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	24:11	3.68e7	2.30e7	4.92e6	3.11e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	25:57	3.54e7	2.19e7	5.77e6	3.64e6	-----	-----	1.61	
1,2,3,7,8-PeCDF	24:13	3.59e7	2.34e7	4.86e6	3.12e6	-----	-----	1.54	
2,3,4,7,8-PeCDF	25:58	3.52e7	2.31e7	5.88e6	3.84e6	-----	-----	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	26:27	2.41e7	1.54e7	3.97e6	2.51e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	26:29	1.37e7	2.14e7	2.29e6	3.50e6	-----	-----	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	30:15	1.29e7	2.45e7	2.88e6	5.50e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.70e7	3.20e7	3.53e6	6.54e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	31:11	1.45e7	2.71e7	3.17e6	5.96e6	-----	-----	0.54	
1,2,3,7,8,9-HxCDF-13C	32:11	1.27e7	2.42e7	2.51e6	4.81e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	30:16	2.47e7	2.01e7	5.65e6	4.64e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	30:26	3.04e7	2.41e7	6.06e6	4.99e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	31:12	2.77e7	2.20e7	5.94e6	4.69e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:12	2.33e7	1.78e7	4.45e6	3.49e6	-----	-----	1.31	

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Client Name	PASI Wisconsin		
Client ID	MAK114C-MSD	Injected By	BAL
Lab ID	10260486003-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_11	GC Column ID	USC473217H
Analyzed	03/22/2014 19:18	ICAL ID	P130624

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	31:23	1.52e7	1.19e7	3.64e6	2.88e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	1.78e7	1.43e7	3.70e6	3.04e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	31:50	2.05e7	1.66e7	4.16e6	3.44e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	31:24	1.60e7	1.27e7	4.01e6	3.16e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:31	1.91e7	1.53e7	3.95e6	3.27e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	31:50	1.86e7	1.49e7	3.63e6	2.92e6	-----	-----	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	33:57	9.52e6	2.11e7	2.21e6	4.86e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:38	7.18e6	1.63e7	1.62e6	3.58e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	33:58	2.12e7	2.06e7	5.08e6	4.91e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	35:39	1.58e7	1.48e7	3.39e6	3.29e6	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	35:08	1.22e7	1.18e7	2.84e6	2.68e6	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	35:09	1.29e7	1.18e7	2.94e6	2.72e6	-----	-----	1.09	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	2.07e7	2.32e7	4.58e6	5.08e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.57e7	1.73e7	3.44e6	3.89e6	-----	-----	0.91	
OCDD	37:59	1.76e7	1.96e7	3.79e6	4.13e6	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120C-MS	Injected By	BAL
Lab ID	10260486008-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_12	GC Column ID	USC473217H
Analyzed	03/22/2014 20:01	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	3.10e7	3.92e7	5.41e6	6.64e6	-----	-----	0.79	
2,3,7,8-TCDF	17:27	5.87e6	7.73e6	9.72e5	1.34e6	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:35	2.63e7	3.25e7	4.87e6	6.04e6	-----	-----	0.81	
2,3,7,8-TCDD-13C	18:19	2.18e7	2.76e7	3.55e6	4.59e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:20	5.08e6		8.17e5		-----	-----		
2,3,7,8-TCDD	18:20	4.18e6	5.34e6	6.58e5	8.44e5	-----	-----	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	24:11	3.21e7	2.07e7	4.29e6	2.79e6	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	25:58	3.09e7	1.97e7	5.19e6	3.33e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	24:13	3.15e7	2.06e7	4.20e6	2.73e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	25:59	3.11e7	2.07e7	5.13e6	3.35e6	-----	-----	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	26:27	2.17e7	1.32e7	3.52e6	2.20e6	-----	-----	1.64	
1,2,3,7,8-PeCDD	26:30	1.22e7	1.94e7	1.97e6	3.23e6	-----	-----	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	30:15	1.16e7	2.17e7	2.64e6	4.99e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.49e7	2.86e7	3.00e6	5.64e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:12	1.31e7	2.48e7	2.95e6	5.45e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:12	1.12e7	2.12e7	2.23e6	4.20e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	30:17	2.30e7	1.81e7	5.02e6	3.92e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDF	30:27	2.71e7	2.18e7	5.41e6	4.29e6	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	31:12	2.47e7	1.97e7	5.41e6	4.30e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:13	2.03e7	1.62e7	3.95e6	3.15e6	-----	-----	1.26	

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Client Name	PASI Wisconsin		
Client ID	MAK120C-MS	Injected By	BAL
Lab ID	10260486008-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_12	GC Column ID	USC473217H
Analyzed	03/22/2014 20:01	ICAL ID	P130624

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	31:24	1.33e7	1.05e7	3.50e6	2.76e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	1.64e7	1.30e7	3.31e6	2.67e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD-13C	31:50	1.93e7	1.59e7	3.86e6	3.13e6	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	31:24	1.49e7	1.14e7	3.69e6	2.87e6	-----	-----	1.31	
1,2,3,6,7,8-HxCDD	31:32	1.71e7	1.40e7	3.63e6	2.85e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	31:51	1.68e7	1.30e7	3.35e6	2.67e6	-----	-----	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	33:58	8.57e6	1.89e7	1.96e6	4.26e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	35:38	6.49e6	1.44e7	1.46e6	3.28e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	1.95e7	1.85e7	4.43e6	4.18e6	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	35:39	1.45e7	1.40e7	3.08e6	2.95e6	-----	-----	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	35:09	1.14e7	1.08e7	2.46e6	2.33e6	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	35:09	1.12e7	1.11e7	2.61e6	2.59e6	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:08	1.89e7	2.09e7	4.27e6	4.58e6	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.44e7	1.60e7	3.04e6	3.22e6	-----	-----	0.90	
OCDD	37:59	1.61e7	1.73e7	3.34e6	3.77e6	-----	-----	0.93	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK120C-MSD	Injected By	BAL
Lab ID	10260486008-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_13	GC Column ID	USC473217H
Analyzed	03/22/2014 20:44	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:25	2.65e7	3.34e7	4.43e6	5.53e6	-----	-----	0.79	
2,3,7,8-TCDF	17:27	5.28e6	7.25e6	8.89e5	1.16e6	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:34	2.32e7	2.92e7	4.11e6	5.32e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:19	1.88e7	2.36e7	3.01e6	3.78e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	18:19	4.53e6		7.21e5		-----	-----		
2,3,7,8-TCDD	18:20	3.86e6	4.93e6	6.04e5	7.59e5	-----	-----	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	24:11	2.77e7	1.75e7	3.62e6	2.33e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	25:57	2.65e7	1.64e7	4.26e6	2.67e6	-----	-----	1.61	
1,2,3,7,8-PeCDF	24:13	2.93e7	1.91e7	3.95e6	2.52e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	25:58	2.89e7	1.85e7	4.64e6	3.03e6	-----	-----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:27	1.81e7	1.15e7	3.02e6	1.83e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	26:29	1.10e7	1.73e7	1.75e6	2.81e6	-----	-----	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	30:14	9.18e6	1.74e7	2.10e6	3.96e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.24e7	2.37e7	2.37e6	4.52e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:11	1.05e7	2.02e7	2.36e6	4.38e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	32:11	9.13e6	1.74e7	1.79e6	3.39e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	30:16	2.00e7	1.57e7	4.47e6	3.46e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDF	30:26	2.45e7	1.91e7	4.75e6	3.80e6	-----	-----	1.28	
2,3,4,6,7,8-HxCDF	31:12	2.17e7	1.70e7	4.70e6	3.64e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDF	32:12	1.79e7	1.44e7	3.52e6	2.81e6	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID	MAK120C-MSD	Injected By	BAL
Lab ID	10260486008-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_13	GC Column ID	USC473217H
Analyzed	03/22/2014 20:44	ICAL ID	P130624

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	31:23	1.12e7	8.39e6	2.75e6	2.13e6	-----	-----	1.33	
1,2,3,6,7,8-HxCDD-13C	31:31	1.31e7	1.08e7	2.80e6	2.14e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	31:50	1.63e7	1.29e7	3.19e6	2.52e6	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	31:24	1.31e7	1.05e7	3.21e6	2.61e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	31:31	1.56e7	1.23e7	3.31e6	2.60e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	31:50	1.48e7	1.21e7	2.89e6	2.29e6	-----	-----	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	33:57	6.87e6	1.56e7	1.61e6	3.62e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:38	5.14e6	1.18e7	1.18e6	2.61e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	33:58	1.67e7	1.63e7	4.06e6	3.93e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	35:38	1.26e7	1.19e7	2.81e6	2.64e6	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	35:08	8.94e6	8.36e6	1.95e6	1.82e6	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	35:08	9.63e6	9.48e6	2.09e6	2.03e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	1.66e7	1.85e7	3.66e6	3.98e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.15e7	1.28e7	2.40e6	2.71e6	-----	-----	0.90	
OCDD	37:59	1.35e7	1.55e7	2.84e6	3.15e6	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK121L-MS	Injected By	BAL
Lab ID	10260486010-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_14	GC Column ID	USC473217H
Analyzed	03/22/2014 21:27	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	2.85e7	3.60e7	4.81e6	6.06e6	-----	-----	0.79	
2,3,7,8-TCDF	17:27	5.81e6	7.75e6	9.64e5	1.34e6	-----	-----	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	17:34	2.34e7	2.97e7	4.29e6	5.35e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:19	2.00e7	2.53e7	3.25e6	4.11e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:20	4.91e6		7.96e5		-----	-----		
2,3,7,8-TCDD	18:20	4.26e6	5.40e6	7.11e5	8.84e5	-----	-----	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	24:11	2.99e7	1.90e7	3.92e6	2.47e6	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	25:58	2.88e7	1.78e7	4.66e6	2.95e6	-----	-----	1.62	
1,2,3,7,8-PeCDF	24:13	3.27e7	2.09e7	4.29e6	2.70e6	-----	-----	1.57	
2,3,4,7,8-PeCDF	25:58	3.15e7	2.05e7	5.25e6	3.40e6	-----	-----	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	26:27	1.99e7	1.27e7	3.23e6	2.10e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	26:29	1.20e7	1.94e7	1.99e6	3.22e6	-----	-----	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	30:15	1.03e7	1.94e7	2.35e6	4.35e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.34e7	2.56e7	2.68e6	5.08e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	31:11	1.16e7	2.21e7	2.57e6	4.93e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:11	1.04e7	1.95e7	1.96e6	3.73e6	-----	-----	0.54	
1,2,3,4,7,8-HxCDF	30:16	2.23e7	1.77e7	5.02e6	4.00e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	30:26	2.68e7	2.15e7	5.37e6	4.28e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	31:12	2.41e7	1.95e7	5.09e6	4.05e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	32:12	2.06e7	1.58e7	3.86e6	3.06e6	-----	-----	1.30	

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Client Name	PASI Wisconsin		
Client ID	MAK121L-MS	Injected By	BAL
Lab ID	10260486010-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_14	GC Column ID	USC473217H
Analyzed	03/22/2014 21:27	ICAL ID	P130624

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	31:23	1.22e7	9.66e6	2.92e6	2.35e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	31:31	1.43e7	1.14e7	3.07e6	2.42e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	31:50	1.67e7	1.35e7	3.26e6	2.64e6	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	31:24	1.41e7	1.12e7	3.47e6	2.75e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:31	1.71e7	1.36e7	3.57e6	2.80e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	31:50	1.60e7	1.28e7	3.11e6	2.51e6	-----	-----	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	33:57	7.50e6	1.64e7	1.66e6	3.70e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:38	5.86e6	1.32e7	1.27e6	2.81e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	33:58	1.83e7	1.80e7	4.27e6	4.11e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	35:38	1.40e7	1.35e7	3.06e6	2.90e6	-----	-----	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	35:08	1.00e7	9.26e6	2.27e6	2.04e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	35:09	1.09e7	1.04e7	2.36e6	2.23e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	1.89e7	2.01e7	4.17e6	4.44e6	-----	-----	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.25e7	1.42e7	2.62e6	2.96e6	-----	-----	0.88	
OCDD	37:59	1.54e7	1.70e7	3.16e6	3.53e6	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK121L-MSD	Injected By	BAL
Lab ID	10260486010-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_15	GC Column ID	USC473217H
Analyzed	03/22/2014 22:09	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:26	3.44e7	4.34e7	5.87e6	7.32e6	-----	-----	0.79	
2,3,7,8-TCDF	17:27	7.08e6	9.55e6	1.19e6	1.61e6	-----	-----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:35	2.64e7	3.29e7	4.73e6	5.90e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	18:19	2.48e7	3.09e7	3.83e6	4.79e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	18:20	5.73e6		9.29e5		-----	-----		
2,3,7,8-TCDD	18:20	5.02e6	6.46e6	7.91e5	1.08e6	-----	-----	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	24:11	3.63e7	2.26e7	4.73e6	3.02e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	25:58	3.42e7	2.16e7	5.46e6	3.57e6	-----	-----	1.59	
1,2,3,7,8-PeCDF	24:13	3.88e7	2.51e7	5.20e6	3.32e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	25:58	3.83e7	2.48e7	6.13e6	3.99e6	-----	-----	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	26:27	2.41e7	1.52e7	3.95e6	2.47e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	26:29	1.45e7	2.33e7	2.42e6	3.87e6	-----	-----	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	30:15	1.26e7	2.39e7	2.81e6	5.36e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:25	1.67e7	3.11e7	3.23e6	6.13e6	-----	-----	0.54	
2,3,4,6,7,8-HxCDF-13C	31:12	1.43e7	2.69e7	3.04e6	5.70e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:11	1.24e7	2.31e7	2.39e6	4.52e6	-----	-----	0.54	
1,2,3,4,7,8-HxCDF	30:16	2.75e7	2.11e7	5.86e6	4.73e6	-----	-----	1.30	
1,2,3,6,7,8-HxCDF	30:26	3.24e7	2.63e7	6.38e6	5.03e6	-----	-----	1.23	
2,3,4,6,7,8-HxCDF	31:12	2.91e7	2.35e7	6.28e6	5.04e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	32:13	2.46e7	1.92e7	4.51e6	3.56e6	-----	-----	1.28	

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Client Name	PASI Wisconsin		
Client ID	MAK121L-MSD	Injected By	BAL
Lab ID	10260486010-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_15	GC Column ID	USC473217H
Analyzed	03/22/2014 22:09	ICAL ID	P130624

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	31:24	1.45e7	1.15e7	3.56e6	2.80e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	31:31	1.81e7	1.40e7	3.69e6	2.88e6	-----	-----	1.29	
1,2,3,7,8,9-HxCDD-13C	31:50	1.91e7	1.52e7	3.69e6	2.99e6	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	31:24	1.67e7	1.35e7	4.28e6	3.44e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	31:31	2.09e7	1.68e7	4.28e6	3.50e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	31:51	1.92e7	1.55e7	3.69e6	2.86e6	-----	-----	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	33:58	8.94e6	1.96e7	2.03e6	4.41e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	35:38	7.12e6	1.59e7	1.53e6	3.46e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	33:59	2.22e7	2.15e7	5.08e6	4.82e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	35:39	1.68e7	1.63e7	3.60e6	3.43e6	-----	-----	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	35:08	1.24e7	1.16e7	2.66e6	2.47e6	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	35:09	1.31e7	1.28e7	2.85e6	2.78e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	2.29e7	2.54e7	4.76e6	5.26e6	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:59	1.55e7	1.73e7	3.05e6	3.38e6	-----	-----	0.90	
OCDD	37:59	1.88e7	2.05e7	3.68e6	4.20e6	-----	-----	0.92	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK123L-MS	Injected By	BAL
Lab ID	10260486012-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_16	GC Column ID	USC473217H
Analyzed	03/22/2014 22:52	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:25	2.60e7	3.32e7	4.39e6	5.55e6	-----	-----	0.78	
2,3,7,8-TCDF	17:27	5.00e6	6.68e6	8.73e5	1.13e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	17:34	2.24e7	2.83e7	4.09e6	5.21e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	18:19	1.85e7	2.33e7	3.09e6	3.84e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	18:19	4.35e6		7.07e5		-----	-----		
2,3,7,8-TCDD	18:19	3.51e6	4.64e6	5.72e5	7.37e5	-----	-----	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	24:10	2.86e7	1.79e7	3.75e6	2.41e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	25:57	2.79e7	1.72e7	4.51e6	2.86e6	-----	-----	1.62	
1,2,3,7,8-PeCDF	24:12	2.86e7	1.84e7	3.83e6	2.43e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	25:58	2.81e7	1.84e7	4.61e6	3.05e6	-----	-----	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	26:27	1.88e7	1.20e7	3.08e6	1.94e6	-----	-----	1.56	
1,2,3,7,8-PeCDD	26:29	1.08e7	1.72e7	1.75e6	2.76e6	-----	-----	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	30:15	10.00e6	1.90e7	2.23e6	4.15e6	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	30:24	1.32e7	2.52e7	2.69e6	4.98e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	31:11	1.15e7	2.17e7	2.46e6	4.58e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:11	9.74e6	1.89e7	1.87e6	3.63e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	30:16	2.07e7	1.64e7	4.61e6	3.61e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	30:26	2.47e7	1.94e7	4.87e6	3.91e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	31:12	2.21e7	1.75e7	4.52e6	3.68e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:12	1.85e7	1.44e7	3.49e6	2.78e6	-----	-----	1.28	

REPORT OF LABORATORY ANALYSIS

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Client Name	PASI Wisconsin		
Client ID	MAK123L-MS	Injected By	BAL
Lab ID	10260486012-MS	Instrument ID	10MSHR09 (P)
Filename	P140322B_16	GC Column ID	USC473217H
Analyzed	03/22/2014 22:52	ICAL ID	P130624

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	31:23	1.16e7	9.26e6	2.96e6	2.34e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	31:31	1.47e7	1.14e7	2.87e6	2.30e6	-----	-----	1.29	
1,2,3,7,8,9-HxCDD-13C	31:50	1.71e7	1.36e7	3.30e6	2.58e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	31:24	1.33e7	1.06e7	3.19e6	2.52e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	31:31	1.57e7	1.23e7	3.26e6	2.52e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD	31:50	1.49e7	1.18e7	2.93e6	2.29e6	-----	-----	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	33:57	7.19e6	1.62e7	1.67e6	3.64e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:38	5.75e6	1.31e7	1.26e6	2.73e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	33:58	1.75e7	1.64e7	3.99e6	3.73e6	-----	-----	1.07	
1,2,3,4,7,8,9-HpCDF	35:38	1.30e7	1.21e7	2.76e6	2.59e6	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	35:07	9.78e6	9.39e6	2.06e6	1.95e6	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	35:09	1.00e7	9.91e6	2.16e6	2.07e6	-----	-----	1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	1.76e7	1.93e7	3.72e6	4.01e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.26e7	1.44e7	2.68e6	2.92e6	-----	-----	0.88	
OCDD	37:58	1.40e7	1.59e7	2.78e6	3.14e6	-----	-----	0.88	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK123L-MSD	Injected By	BAL
Lab ID	10260486012-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_17	GC Column ID	USC473217H
Analyzed	03/22/2014 23:35	ICAL ID	P130624

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	17:25	2.86e7	3.54e7	4.83e6	5.94e6	-----	-----	0.81	
2,3,7,8-TCDF	17:27	5.68e6	7.36e6	9.93e5	1.23e6	-----	-----	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	17:34	2.24e7	2.78e7	4.06e6	5.01e6	-----	-----	0.81	
2,3,7,8-TCDD-13C	18:19	2.01e7	2.53e7	3.25e6	4.15e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	18:20	4.82e6		7.92e5		-----	-----		
2,3,7,8-TCDD	18:20	3.94e6	5.04e6	6.37e5	7.77e5	-----	-----	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	24:11	3.08e7	1.94e7	4.07e6	2.53e6	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	25:57	2.94e7	1.85e7	4.80e6	3.00e6	-----	-----	1.59	
1,2,3,7,8-PeCDF	24:13	3.07e7	2.03e7	3.99e6	2.59e6	-----	-----	1.52	
2,3,4,7,8-PeCDF	25:58	3.16e7	2.00e7	5.10e6	3.26e6	-----	-----	1.58	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	26:27	2.04e7	1.31e7	3.34e6	2.12e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	26:29	1.19e7	1.88e7	1.89e6	3.03e6	-----	-----	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	30:15	1.06e7	2.02e7	2.35e6	4.49e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	30:25	1.42e7	2.67e7	2.89e6	5.46e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	31:11	1.22e7	2.32e7	2.66e6	5.11e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	32:11	1.04e7	2.05e7	2.09e6	3.98e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	30:16	2.19e7	1.78e7	4.76e6	3.82e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	30:26	2.67e7	2.11e7	5.14e6	4.08e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	31:12	2.38e7	1.89e7	5.09e6	4.13e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	32:12	2.02e7	1.57e7	3.76e6	3.05e6	-----	-----	1.28	

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Client Name	PASI Wisconsin		
Client ID	MAK123L-MSD	Injected By	BAL
Lab ID	10260486012-MSD	Instrument ID	10MSHR09 (P)
Filename	P140322B_17	GC Column ID	USC473217H
Analyzed	03/22/2014 23:35	ICAL ID	P130624

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	31:23	1.27e7	9.92e6	3.10e6	2.46e6	-----	-----	1.28	
1,2,3,6,7,8-HxCDD-13C	31:31	1.55e7	1.19e7	3.16e6	2.46e6	-----	-----	1.30	
1,2,3,7,8,9-HxCDD-13C	31:50	1.69e7	1.36e7	3.24e6	2.64e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	31:24	1.40e7	1.12e7	3.35e6	2.71e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	31:31	1.69e7	1.35e7	3.51e6	2.80e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	31:50	1.61e7	1.28e7	3.05e6	2.44e6	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	33:57	7.79e6	1.76e7	1.74e6	4.03e6	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	35:38	6.17e6	1.38e7	1.31e6	2.88e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	33:58	1.89e7	1.80e7	4.24e6	4.10e6	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	35:38	1.37e7	1.35e7	2.89e6	2.84e6	-----	-----	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	35:08	1.07e7	1.02e7	2.27e6	2.14e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	35:09	1.10e7	1.02e7	2.42e6	2.27e6	-----	-----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	38:07	1.90e7	2.07e7	4.09e6	4.48e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	37:58	1.35e7	1.50e7	2.83e6	3.15e6	-----	-----	0.90	
OCDD	37:59	1.48e7	1.70e7	3.09e6	3.42e6	-----	-----	0.87	

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