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 #: 10247063
Sample Receipt Date: 10/23/2013
Client Project #: 4086468
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:

November 13, 2013

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

Report Prepared Date:
November 12, 2013

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 sixteen 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 56-107%. 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 the sample batch as part of our routine quality control procedures. The results show the blank 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 93-123% with relative percent differences of 0.4-5.4%. These results indicate high degrees of accuracy and precision for these determinations.

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
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 Mexico	MN00064
Connecticut	PH-0256	New York (NEL	11647
EPA Region 5	WD-15J	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	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	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
MAK009O	10247063001	10/23/2013	Tissue
MAK010O	10247063002	10/23/2013	Tissue
MAK011O	10247063003	10/23/2013	Tissue
MAK012O	10247063004	10/23/2013	Tissue
MAK013O	10247063005	10/23/2013	Tissue
MAK014O	10247063006	10/23/2013	Tissue
MAK015O	10247063007	10/24/2013	Tissue
MAK016O	10247063008	10/23/2013	Tissue
MAK017O	10247063009	10/23/2013	Tissue
MAK018O	10247063010	10/23/2013	Tissue
MAK019O	10247063011	10/23/2013	Tissue
MAK020O	10247063012	10/23/2013	Tissue
MAK021O	10247063013	10/23/2013	Tissue
MAK022O	10247063014	10/23/2013	Tissue
MAK023O	10247063015	10/23/2013	Tissue
MAK024O	10247063016	10/23/2013	Tissue
MAK024O-MS	10247063016-MS	10/23/2013	Tissue
MAK024O-MSD	10247063016-MSD	10/23/2013	Tissue

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1153
1138

10247063

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)	Conforms Sent											PACE Remarks or Sample Location	PRESERVATION ICED	PRESERVATION Specify Chemicals added and final pH if known
MAK009O	9/13/2013	1248		x	1	x	\											Octopus	x	10247063001
MAK010O	9/16/2013	1025		x	1	x	\											Octopus	x	002
MAK011O	9/16/2013	1110		x	1	x	\											Octopus	x	003
MAK012O	9/22/2013	1315		x	1	x	\											Octopus	x	004
MAK013O	9/22/2013	1400		x	1	x	\											Octopus	x	005
MAK014O	9/23/2013	820		x	1	x	\											Octopus	x	006
MAK015O	9/22/2013	830		x	1	x	\											Octopus	x	007
MAK016O	9/22/2013	1115		x	1	x	\											Octopus	x	008
MAK017O	9/22/2013	1140		x	1	x	\											Octopus	x	009
MAK018O	9/22/2013	1206		x	1	x	\											Octopus	x	010
MAK019O	9/23/2013	833		x	1	x	\											Octopus	x	011
MAK020O	9/23/2013	855		x	1	x	\											Octopus	x	012
MAK021O	9/23/2013	927		x	1	x	\											Octopus	x	013
MAK022O	9/23/2013	1020		x	1	x	\											Octopus	x	014
MAK023O	9/23/2013	1136		x	1	x	\											Octopus	x	015
MAK024O	9/27/2013	828		x	1	x	\											Octopus	x	016

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
[signature]	10/22/13	1700	
Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)
Received for Laboratory by: (Signature) [signature] PACE	Date 10/23/13	Time 10:15	Shipping Ticket No.

REMARKS / SPECIAL INSTRUCTIONS:

Test samples - please process this group before or with the accompanying project samples.

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.

Tab 2

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ARDL

Project #: WO#: 10247063

10247063

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

Tracking Number: _____

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

Optional: Proj. Due Date: Proj. Name:

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

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

Cooler Temp Read (°C): -6.5 **Cooler Temp Corrected (°C):** -6.2 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +0.3 **Date and Initials of Person Examining Contents:** IH 10-23-13

				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?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: SL				
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)	☐ Yes	☑ No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/30/13

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-14079

Pace Analytical Services, Inc.

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Time of Spiking _____

Extraction On (Date/Time):
11/4/2013 6:30:00 PM

Extraction Off (Date/Time):
11/5/2013 10:30:00 AM

EB-14079

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-38307			20.10					
2	LCS-38308			19.80					
3	10247063016-MS			8.20				Rcving	1613,T-O,pick ms/msd
4	10247063016-MSD			8.20				Rcving	1613,T-O,pick ms/msd
5	10247063001			20.10				Rcving	1613,T-O,pick ms/msd
6	10247063002			20.40				Rcving	1613,T-O,pick ms/msd
7	10247063003			20.10				Rcving	1613,T-O,pick ms/msd
8	10247063004			20.00				Rcving	1613,T-O,pick ms/msd
9	10247063005			20.20				Rcving	1613,T-O,pick ms/msd
10	10247063006			20.00				Rcving	1613,T-O,pick ms/msd
11	10247063007			20.30				Rcving	1613,T-O,pick ms/msd
12	10247063008			20.10				Rcving	1613,T-O,pick ms/msd
13	10247063009			20.70				Rcving	1613,T-O,pick ms/msd
14	10247063010			20.10				Rcving	1613,T-O,pick ms/msd
15	10247063011			20.10				Rcving	1613,T-O,pick ms/msd
16	10247063012			20.10				Rcving	1613,T-O,pick ms/msd
17	10247063013			20.50				Rcving	1613,T-O,pick ms/msd
18	10247063014			20.20				Rcving	1613,T-O,pick ms/msd
19	10247063015			20.10				Rcving	1613,T-O,pick ms/msd
20	10247063016			8.20				Rcving	1613,T-O,pick ms/msd

Standards:

Internal Std FS-I-9966-043
Native FS-N-9966-024
Cl-37 Std DWC-9966-036
Recovery Std FS-R-9966-032
Tridecane A0300198
Mineral Oil
Others

☐ **Silica:**
Date 11/5/2013
Initials KH
Hexane Lot # 135511
Dispenser ID
Neutral Batch # 244
Basic Batch # 327
Acid Batch # 492

☐ **Alumina:**
Date 11/6/2013
Initials MF
Hexane Lot # 135511
Dispenser ID
60% Batch # 1551
Dispenser ID
Alumina Lot

☐ **Carbon:**
Date 11/6/2013
Initials MF
Toluene Lot # 131926
Dispenser ID
75% Batch # 318
Dispenser ID
50% Batch # 431
Dispenser ID
Hexane Lot # 135511
Dispenser ID

Extract Solvents:
Toluene Lot #
Hexane Lot # 135511
MeCl Lot # 132700

☐ **Acid Base:**
H2SO4 Lot # 135863
Buffer Soln #

QC Matrix Lot/Batch# _____

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

FH025Rev.01, 05Jan2009

Extraction Notes

FT/KH

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

Analysis Key Code List

- = Not used

✔ = Worked up

= See comment # below

Li = Liner, replace or clean

Ba = Baseplate, change

SyB = Syringe, replace – bent

SyP = Syringe, replace – plugged

SyO = Syringe, replace – other

IS = Injector Septum, replace

BS = Batch Septum, replace

Fi = Filament, replace

Co = Contacts, adjust

Ca = re-Calibrate

Tu = Tune

TC = Tune and Calibrate

CC () = Cut Column (length cut)

CO = Carry-Over possible

RRM = ReRun - Matrix

RRLM = ReRun – Lock Mass

RRBI = ReRun – Bad Injection

RRRT = ReRun – Retention Time shift

RR>S = Rerun – need better Sensitivity

Re = Re-extract

AS = Adjust Slits

LC = Leak Check

RB = Re-Boot system

CiS = Cleaned inner Source

CoS = Cleaned outer Source

AiS = Alternate inner Source

AoS = Alternate outer Source

<Y = Adjust Y focus down

>Y = Adjust Y focus up

Di () = Dilution needed (amount needed)

FE = Front End – liner, baseplate and septum

Sample List Report **MassLynx 4.1 SCN 881** 10MS1H206 11/4/13

Sample List: C:\MassLynx\Default.pro\Sampledb\U131104A.SPL

Last Modified: Monday, November 04, 2013 15:35:25 Central Standard Time

Printed: Monday, November 04, 2013 15:35:27 Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj
1	U131104A_01	CAL CS3/CPM-7604-286 - SMT TC	8290/1613B	dioxfur	dioxfur	Tray1:1	1.000000
2	U131104A_02	CAL CS2-7604-276 - SMT	8290/1613B	dioxfur	dioxfur	Tray1:4	1.000000
3	U131104A_03	CAL CS1-7604-273 - SMT recovery	8290/1613B	dioxfur	dioxfur	Tray1:5	1.000000
4	U131104A_04	CAL CS5-7604-278 - SMT	8290/1613B	dioxfur	dioxfur	Tray1:6	1.000000
5	U131104A_05	CAL CS4-7604-277 - SMT	8290/1613B	dioxfur	dioxfur	Tray1:7	1.000000
6	U131104A_06	CAL CS3-7604-275 - SMT	23	dioxfur	dioxfur	Tray1:9	1.000000
7	U131104A_07	CAL CS1-7604-273 - SMT recovery	8290/1613B	dioxfur	dioxfur	Tray1:10	1.000000
8	U131104A_08	CAL CS1-7604-273 - SMT	8290/1613B	dioxfur	dioxfur	Tray1:4	1.000000
9	U131104A_09	CAL LCS-37562 - SMT 2nd	8290/1613B	dioxfur	dioxfur	Tray1:5	1.000000
10	U131104A_10	LCS LCSD-38260 - SMT	23	dioxfur	dioxfur	Tray1:6	1.000000

11/6/13

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10 MS/MSD 11/5/13

Sample List: C:\MassLynx\Default.pro\Sampledb\F131105A.SPL

Last Modified: Tuesday, November 05, 2013 1:55:37 PM Central Standard Time

Printed: Tuesday, November 05, 2013 1:55:39 PM Central Standard Time

Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F131105A_01	CAL CS3/CPM-7604-286 - SMT TC	8290/1613B	dioxfur	dioxfur	1	1.000000
2	F131105A_02	CAL CS3/CPM-7604-286 - SMT	8290/1613B	dioxfur	dioxfur	1	1.000000
3	F131105A_03	CAL CS2-7604-276 - SMT	8290/1613B	dioxfur	dioxfur	9	1.000000
4	F131105A_04	CAL CS1-7604-273 - SMT	8290/1613B	dioxfur	dioxfur	10	1.000000
5	F131105A_05	CAL CS5-7604-278 - SMT	8290/1613B	dioxfur	dioxfur	11	1.000000
6	F131105A_06	CAL CS4-7604-277 - SMT	8290/1613B	dioxfur	dioxfur	12	1.000000
7	F131105A_07	LCS LCS-37562 - SMT 2nd	8290/1613B	dioxfur	dioxfur	13	1.000000

11/7/13

Sample List: C:\MassLynx\Default.pro\Sampledb\F131106A.SPL
Last Modified: Wednesday, November 06, 2013 8:36:23 PM Central Standard Time
Printed: Wednesday, November 06, 2013 8:36:31 PM Central Standard Time

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	
1	F131106A_01	CAL CS3/CPM-7604-286 - BAL TC	8290/1613B	dioxfur	dioxfur	1	1.000000	18:18
2	F131106A_02	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	2	1.000000	
3	F131106A_03	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	3	1.000000	01:47
4	F131106A_04	SAMP 10247063001 - BAL PASI-WI	1613B	dioxfur	dioxfur	4	1.000000	
5	F131106A_05	SAMP 10247063002 - BAL PASI-WI	1613B	dioxfur	dioxfur	5	1.000000	
6	F131106A_06	SAMP 10247063003 - BAL PASI-WI	1613B	dioxfur	dioxfur	6	1.000000	
7	F131106A_07	SAMP 10247063004 - BAL PASI-WI	1613B	dioxfur	dioxfur	7	1.000000	
8	F131106A_08	SAMP 10247063005 - BAL PASI-WI	1613B	dioxfur	dioxfur	8	1.000000	
9	F131106A_09	SAMP 10247063006 - BAL PASI-WI	1613B	dioxfur	dioxfur	9	1.000000	
10	F131106A_10	SAMP 10247063007 - BAL PASI-WI	1613B	dioxfur	dioxfur	10	1.000000	6:14
11	F131106A_11	SAMP 10247063008 - BAL PASI-WI	1613B	dioxfur	dioxfur	11	1.000000	stopped shift
12	F131106A_12	SAMP 10247063009 - BAL PASI-WI	1613B	dioxfur	dioxfur	12	1.000000	post 12hrs
13	F131106A_13	SAMP 10247063010 - BAL PASI-WI	1613B	dioxfur	dioxfur	13	1.000000	
14	F131106A_14	SAMP 10247063011 - BAL PASI-WI	1613B	dioxfur	dioxfur	14	1.000000	
15	F131106A_15	SAMP 10247063012 - BAL PASI-WI	1613B	dioxfur	dioxfur	15	1.000000	
16	F131106A_16	CAL CS3/CPM-7604-286 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000	

11/7/13

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10 MSHR05 11/7/13

Sample List: C:\MassLynx\Default.pro\Sampledb\F131107A.SPL

Last Modified: Thursday, November 07, 2013 5:46:48 PM Central Standard Time

Printed: Thursday, November 07, 2013 5:46:50 PM Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject	
1	F131107A_01	CAL CS3/CPM-7604-286 - SMT AS Ca	8290/1613B	dioxfur	dioxfur	1	1.000000	
2	F131107A_02	LCS LCS-38308 - SMT	1613B	dioxfur	dioxfur	4	1.000000	arc
3	F131107A_03	SAMP 10247063016-MS - SMT PASI-WI	1613B	dioxfur	dioxfur	5	1.000000	
4	F131107A_04	SAMP 10247063016-MSD - SMT PASI-WI	1613B	dioxfur	dioxfur	6	1.000000	
5	F131107A_05	BLANK BLANK-38129-10X - SMT	HOUSE	dioxfur	dioxfur	3	1.000000	
6	F131107A_06	BLANK BLANK-38307 - SMT	1613B	dioxfur	dioxfur	7	1.000000	
7	F131107A_07	SAMP 10247063008 - SMT PASI-WI	1613B	dioxfur	dioxfur	8	1.000000	
8	F131107A_08	SAMP 10247063009 - SMT PASI-WI	1613B	dioxfur	dioxfur	9	1.000000	
9	F131107A_09	SAMP 10247063010 - SMT PASI-WI	1613B	dioxfur	dioxfur	10	1.000000	
10	F131107A_10	SAMP 10247063011 - SMT PASI-WI	1613B	dioxfur	dioxfur	11	1.000000	
11	F131107A_11	SAMP 10247063012 - SMT PASI-WI	1613B	dioxfur	dioxfur	12	1.000000	
12	F131107A_12	SAMP 10247063013 - SMT PASI-WI	1613B	dioxfur	dioxfur	13	1.000000	
13	F131107A_13	SAMP 10247063014 - SMT PASI-WI	1613B	dioxfur	dioxfur	14	1.000000	
14	F131107A_14	SAMP 10247063015 - SMT PASI-WI	1613B	dioxfur	dioxfur	15	1.000000	
15	F131107A_15	SAMP 10247063016 - SMT PASI-WI	1613B	dioxfur	dioxfur	16	1.000000	
16	F131107A_16	LCS LCS-38308 - SMT	1613B	dioxfur	dioxfur	4	1.000000	- [illegible]

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10 MSHR05 11/7/13

Sample List: C:\MassLynx\Default.pro\Sampledb\F131107B.SPL

Last Modified: Thursday, November 07, 2013 5:50:02 PM Central Standard Time

Printed: Thursday, November 07, 2013 5:50:40 PM Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F131107B_01	CAL CS3/CPM-7604-286 - SMT pasi-M	8290/1613B	dioxfur	dioxfur	1	1.000000
2	F131107B_02	CAL CS3-7604-275 - SMT ocdd	23	dioxfur	dioxfur	17	1.000000
3	F131107B_03	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	2	1.000000
4	F131107B_04	BLANK BLANK-38129-10X - SMT	HOUSE	dioxfur	dioxfur	3	1.000000
5	F131107B_05	SAMP 10247029007 - SMT ocdd check	23	dioxfur	dioxfur	18	1.000000 — (1)
6	F131107B_06	SAMP 10247063001 - SMT PASI-WI co check	1613B	dioxfur	dioxfur	19	1.000000
7	F131107B_07	SAMP 10248125001 - BAL [redacted]	1613B	dioxfur	dioxfur	20	1.000000
8	F131107B_08	SAMP 10248181001 - BAL [redacted]	1613B	dioxfur	dioxfur	21	1.000000
9	F131107B_09	SAMP 10248042001 - BAL [redacted]	1613B	dioxfur	dioxfur	22	1.000000
10	F131107B_10	SAMP 10248042002 - BAL [redacted]	1613B	dioxfur	dioxfur	23	1.000000
11	F131107B_11	SAMP 10248036001 - BAL [redacted]	1613B	dioxfur	dioxfur	24	1.000000 — may need clean up
12	F131107B_12	BLANK NONANE - BAL matrix	HOUSE	dioxfur	dioxfur	2	1.000000

(1) OCDD confirmed in sample - BAC 11/8/13

BAC 11/12/13

Sample List Report **MassLynx 4.1 SCN 881** 10MSHR06 11/8/13

Sample List: C:\MassLynx\Default.pro\Sampledb\U131108A.SPL

Last Modified: Saturday, November 09, 2013 11:57:39 Central Standard Time

Printed: Saturday, November 09, 2013 11:59:05 Central Standard Time Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inj	
1	U131108A_01	SAMP 10244340010-CC - BAL Fi TC	HOUSE	dioxfur	dioxfur	Tray1:4	1.000000	
2	U131108A_02	SAMP 10244340011-CC - BAL	HOUSE	dioxfur	dioxfur	Tray1:5	1.000000	
3	U131108A_03	CAL CS3/CPM-7604-286 - BAL	8290/1613B	dioxfur	dioxfur	Tray1:1	1.000000	pass all
4	U131108A_04	LCS LCS-38308 - BAL	8290/1613B	dioxfur	dioxfur	Tray1:6	1.000000	
5	U131108A_05	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000	waiting
6	U131108A_06	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000	for samples
7	U131108A_07	SAMP 10247726001 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:7	1.000000	
8	U131108A_08	SAMP 10247726002 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:8	1.000000	
9	U131108A_09	SAMP 10247726003 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:9	1.000000	
10	U131108A_10	SAMP 10247726004 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:10	1.000000	
11	U131108A_11	SAMP 10247726005 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:11	1.000000	out
12	U131108A_12	SAMP 10247726006 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:12	1.000000	of shift
13	U131108A_13	SAMP 10247726007 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:13	1.000000	
14	U131108A_14	SAMP 10247726008 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:14	1.000000	
15	U131108A_15	SAMP 10247726009 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:15	1.000000	
16	U131108A_16	BLANK NONANE - BAL hist high	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000	
17	U131108A_17	CAL CS3/CPM-7604-286 - BAL	8290/1613B	dioxfur	dioxfur	Tray1:1	1.000000	pass all
18	U131108A_18	BLANK BLANK-38129-10X - BAL	HOUSE	dioxfur	dioxfur	Tray1:3	1.000000	
19	U131108A_19	SAMP 10248210001 - BAL[redacted]	1613B-TD	dioxfur	dioxfur	Tray1:21	1.000000	
20	U131108A_20	SAMP 10248210002 - BAL[redacted]	1613B-TD	dioxfur	dioxfur	Tray1:22	1.000000	
21	U131108A_21	SAMP 10248210003 - BAL[redacted]	1613B-TD	dioxfur	dioxfur	Tray1:23	1.000000	
22	U131108A_22	SAMP 10248211001 - BAL[redacted]	1613B-TD	dioxfur	dioxfur	Tray1:24	1.000000	
23	U131108A_23	SAMP 10247726002 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:19	1.000000	
24	U131108A_24	SAMP 10247726003 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:20	1.000000	
25	U131108A_25	SAMP 10247726004 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:16	1.000000	
26	U131108A_26	SAMP 10247726005 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:17	1.000000	
27	U131108A_27	SAMP 10247726006 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:18	1.000000	
28	U131108A_28	SAMP 10247726007 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:25	1.000000	
29	U131108A_29	SAMP 10247726008 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:26	1.000000	
30	U131108A_30	SAMP 10247726009 - BAL[redacted]	8290	dioxfur	dioxfur	Tray1:27	1.000000	
31	U131108A_31	SAMP 4087810001 - BAL PASI-WI	1613B-TDF	dioxfur	dioxfur	Tray1:28	1.000000	
32	U131108A_32	SAMP 4087810002 - BAL PASI-WI	1613B-TDF	dioxfur	dioxfur	Tray1:29	1.000000	
33	U131108A_33	BLANK NONANE - BAL yellow	HOUSE	dioxfur	dioxfur	Tray1:2	1.000000	
34	U131108A_34	CAL CS3/CPM-7604-286 - BAL	8290/1613B	dioxfur	dioxfur	Tray1:1	1.000000	

11/12/13

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	MAK009O		
Lab Sample ID	10247063001		
Filename	F131107B_06		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/13/2013 12:48
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107B_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 23:21

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.110	0.033	PJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	-----	0.033		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	-----	0.043		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	0.130	-----	0.043	BJ	1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.057		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	-----	0.051		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.061		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.061		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	-----	0.038		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.032		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	0.048	-----	0.036	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.036		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.048	-----	0.036	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.072	-----	0.029	J	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	0.094	-----	0.042	BJ			
1,2,3,7,8,9-HxCDD	-----	0.047	0.035	IJ			
Total HxCDD	0.170	-----	0.036	BJ			
1,2,3,4,6,7,8-HpCDF	0.084	-----	0.033	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.051	-----	0.040	J	Equivalence: 0.042 ng/Kg		
Total HpCDF	0.140	-----	0.037	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.310	-----	0.046	BJ			
Total HpCDD	0.410	-----	0.046	BJ			
OCDF	0.230	-----	0.089	BJ			
OCDD	1.800	-----	0.078	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
B = Less than 10x higher than method blank level
P = PCDE Interference
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	MAK010O		
Lab Sample ID	10247063002		
Filename	F131106A_05		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/16/2013 10:25
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 02:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.110	0.043	PJ	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	0.052	-----	0.043	J	2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	ND	-----	0.069		2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	0.140	-----	0.069	BJ	1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	-----	0.087		1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	-----	0.058		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	-----	0.072		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	0.110		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.110		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	0.067	-----	0.065	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	-----	0.060		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	0.059				
1,2,3,7,8,9-HxCDF	ND	-----	0.070		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.067	-----	0.063	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.075		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	-----	0.089	0.070	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	0.074				
Total HxCDD	ND	-----	0.073				
1,2,3,4,6,7,8-HpCDF	0.089	-----	0.058	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.078		Equivalence: 0.030 ng/Kg		
Total HpCDF	0.089	-----	0.068	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.210	0.079	IJ			
Total HpCDD	0.120	-----	0.079	BJ			
OCDF	-----	0.290	0.160	IJ			
OCDD	1.200	-----	0.270	BJ			

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

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

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

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	MAK011O		
Lab Sample ID	10247063003		
Filename	F131106A_06		
Injected By	BAL		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/16/2013 11:10
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 03:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.098	0.040	IJ	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	0.057	-----	0.040	J	2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	ND	-----	0.053		2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	0.053		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.059		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	0.048		2,3,4,6,7,8-HxCDF-13C	2.00	91
Total PeCDF	ND	-----	0.053		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	0.060		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.060		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	-----	0.056		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	0.057		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	-----	0.048				
1,2,3,7,8,9-HxCDF	ND	-----	0.072		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.058		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	90
1,2,3,6,7,8-HxCDD	ND	-----	0.070				
1,2,3,7,8,9-HxCDD	ND	-----	0.068				
Total HxCDD	0.079	-----	0.066	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.044		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.051		Equivalence: 0.012 ng/Kg		
Total HpCDF	ND	-----	0.048		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.180	-----	0.054	BJ			
Total HpCDD	0.280	-----	0.054	BJ			
OCDF	0.280	-----	0.130	BJ			
OCDD	1.200	-----	0.220	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
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	MAK012O		
Lab Sample ID	10247063004		
Filename	F131106A_07		
Injected By	BAL		
Total Amount Extracted	20.0 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 13:15
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 04:00

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.090	0.039	PJ	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	0.052	-----	0.039	J	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	94
2,3,7,8-TCDD	ND	-----	0.055		2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	0.380	-----	0.055	BJ	1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.054		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	-----	0.047		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.043		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	0.046	-----	0.043	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	-----	0.038	0.034	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.033		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.028				
1,2,3,7,8,9-HxCDF	ND	-----	0.042		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	-----	0.036	0.034	IJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.042		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.043				
1,2,3,7,8,9-HxCDD	ND	-----	0.042				
Total HxCDD	ND	-----	0.042				
1,2,3,4,6,7,8-HpCDF	-----	0.050	0.028	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	0.042	0.036	IJ	Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.032		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.120	-----	0.046	BJ			
Total HpCDD	0.120	-----	0.046	BJ			
OCDF	-----	0.170	0.077	IJ			
OCDD	1.000	-----	0.110	BJ			

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EMPC = Estimated Maximum Possible Concentration
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NC = Not Calculated

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

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK013O		
Lab Sample ID	10247063005		
Filename	F131106A_08		
Injected By	BAL		
Total Amount Extracted	20.2 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 14:00
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 04:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.086	0.041	PJ	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	0.065	-----	0.041	J	2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	ND	-----	0.060		2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	0.060		1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	-----	0.067		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	0.043		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.055		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	0.062		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.062		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.045		1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	-----	0.040		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.040				
1,2,3,7,8,9-HxCDF	ND	-----	0.048		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.043		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.046		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	0.046				
1,2,3,7,8,9-HxCDD	ND	-----	0.053				
Total HxCDD	0.076	-----	0.048	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.061	0.047	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.067		Equivalence: 0.012 ng/Kg		
Total HpCDF	0.069	-----	0.057	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.240	-----	0.074	BJ			
Total HpCDD	0.440	-----	0.074	BJ			
OCDF	-----	0.260	0.120	IJ			
OCDD	2.500	-----	0.140	BJ			

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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	MAK014O		
Lab Sample ID	10247063006		
Filename	F131106A_09		
Injected By	BAL		
Total Amount Extracted	20.0 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 08:20
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 05:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.063	0.036	IJ	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	ND	-----	0.036		2,3,7,8-TCDD-13C	2.00	96
					1,2,3,7,8-PeCDF-13C	2.00	100
2,3,7,8-TCDD	ND	-----	0.046		2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD	0.310	-----	0.046	BJ	1,2,3,7,8-PeCDD-13C	2.00	107
					1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.060		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.045		2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	ND	-----	0.053		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.045		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.045		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.031		1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	0.025		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.030				
1,2,3,7,8,9-HxCDF	ND	-----	0.034		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.030		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.035		2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	ND	-----	0.043				
1,2,3,7,8,9-HxCDD	ND	-----	0.047				
Total HxCDD	0.082	-----	0.042	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.041	0.030	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.036		Equivalence: 0.0081 ng/Kg		
Total HpCDF	0.072	-----	0.033	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.130	-----	0.045	BJ			
Total HpCDD	0.240	-----	0.045	BJ			
OCDF	-----	0.120	0.066	IJ			
OCDD	0.950	-----	0.180	BJ			

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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	MAK015O		
Lab Sample ID	10247063007		
Filename	F131106A_10		
Injected By	BAL		
Total Amount Extracted	20.3 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 08:30
ICAL ID	F131105	Received	10/24/2013 10:15
CCal Filename(s)	F131106A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 06:14

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.065	0.029	IJ	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	0.052	-----	0.029	J	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	-----	0.041		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	0.220	-----	0.041	BJ	1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.041		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.030		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	0.036		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	0.038		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.038		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.021		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.026		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.026				
1,2,3,7,8,9-HxCDF	ND	-----	0.028		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.025		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.037		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	0.047				
1,2,3,7,8,9-HxCDD	ND	-----	0.042				
Total HxCDD	ND	-----	0.042				
1,2,3,4,6,7,8-HpCDF	0.040	-----	0.029	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.033		Equivalence: 0.0082 ng/Kg		
Total HpCDF	0.088	-----	0.031	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.130	-----	0.036	BJ			
Total HpCDD	0.130	-----	0.036	BJ			
OCDF	-----	0.160	0.053	IJ			
OCDD	0.860	-----	0.110	BJ			

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EMPC = Estimated Maximum Possible Concentration
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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	MAK016O		
Lab Sample ID	10247063008		
Filename	F131107A_07		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 11:15
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 12:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.079	0.030	IJ	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	0.062	-----	0.030	J	2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	0.057		2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	0.057		1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.058		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.048		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.053		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.055		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.055		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	-----	0.032	0.030	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	0.034	-----	0.030	J	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	0.049	-----	0.024	J			
1,2,3,7,8,9-HxCDF	0.051	-----	0.030	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.140	-----	0.029	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.041		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	0.044				
1,2,3,7,8,9-HxCDD	ND	-----	0.037				
Total HxCDD	0.086	-----	0.041	BJ			
1,2,3,4,6,7,8-HpCDF	0.064	-----	0.039	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.049		Equivalence: 0.027 ng/Kg		
Total HpCDF	0.110	-----	0.044	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.180	-----	0.037	BJ			
Total HpCDD	0.180	-----	0.037	BJ			
OCDF	-----	0.200	0.062	IJ			
OCDD	1.200	-----	0.110	BJ			

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NA = Not Applicable
NC = Not Calculated

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Minneapolis, MN 55414

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

Client - PASI Wisconsin

Client's Sample ID	MAK017O		
Lab Sample ID	10247063009		
Filename	F131107A_08		
Injected By	SMT		
Total Amount Extracted	20.7 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 11:40
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 13:38

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.069	0.040	IJ	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.073	-----	0.040	J	2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	-----	0.043		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	0.043		1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.052		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.044		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	0.061	-----	0.048	J	1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.053		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.053		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
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	-----	0.046		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.041				
1,2,3,7,8,9-HxCDF	ND	-----	0.045		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	-----	0.044		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.050				
1,2,3,7,8,9-HxCDD	ND	-----	0.049				
Total HxCDD	0.100	-----	0.048	BJ			
1,2,3,4,6,7,8-HpCDF	0.045	-----	0.032	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.046		Equivalence: 0.0083 ng/Kg		
Total HpCDF	0.093	-----	0.039	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.091	0.039	IJ			
Total HpCDD	ND	-----	0.039				
OCDF	-----	0.160	0.058	IJ			
OCDD	0.880	-----	0.200	BJ			

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

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

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

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK018O		
Lab Sample ID	10247063010		
Filename	F131107A_09		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/22/2013 12:06
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 14:23

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.084	0.038	PJ	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.038		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.049		2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	0.160	-----	0.049	BJ	1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.063		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.041		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	0.052		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	-----	0.052		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.052		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	-----	0.038		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	0.035		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.035				
1,2,3,7,8,9-HxCDF	ND	-----	0.053		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.042		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	0.041				
1,2,3,7,8,9-HxCDD	ND	-----	0.036				
Total HxCDD	0.088	-----	0.040	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.041	0.034	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.031		Equivalence: 0.0100 ng/Kg		
Total HpCDF	ND	-----	0.032		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.110	-----	0.039	BJ			
Total HpCDD	0.110	-----	0.039	BJ			
OCDF	-----	0.140	0.082	IJ			
OCDD	0.880	-----	0.160	BJ			

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

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

Client - PASI Wisconsin

Client's Sample ID	MAK019O		
Lab Sample ID	10247063011		
Filename	F131107A_10		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 08:33
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 15:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.110	-----	0.029	J	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	0.180	-----	0.029	J	2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	-----	0.058		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	0.052		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.046		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.049		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.054		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.054		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.042		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	0.037		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	0.040				
1,2,3,7,8,9-HxCDF	ND	-----	0.044		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.039		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.041				
1,2,3,7,8,9-HxCDD	ND	-----	0.039				
Total HxCDD	ND	-----	0.040				
1,2,3,4,6,7,8-HpCDF	0.043	-----	0.031	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.044		Equivalence: 0.013 ng/Kg		
Total HpCDF	0.043	-----	0.038	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.100	-----	0.033	BJ			
Total HpCDD	0.190	-----	0.033	BJ			
OCDF	-----	0.17	0.069	IJ			
OCDD	0.840	-----	0.130	BJ			

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

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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK020O		
Lab Sample ID	10247063012		
Filename	F131107A_11		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 08:55
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 15:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.092	0.041	PJ	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.065	-----	0.041	J	2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	-----	0.059		2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	0.460	-----	0.059	BJ	1,2,3,7,8-PeCDD-13C	2.00	100
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	-----	0.056		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.040		2,3,4,6,7,8-HxCDF-13C	2.00	91
Total PeCDF	ND	-----	0.048		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	-----	0.071		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.071		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.035		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.040		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.035				
1,2,3,7,8,9-HxCDF	ND	-----	0.034		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.036		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.041		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.042				
1,2,3,7,8,9-HxCDD	ND	-----	0.040				
Total HxCDD	ND	-----	0.041				
1,2,3,4,6,7,8-HpCDF	0.056	-----	0.031	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.045		Equivalence: 0.011 ng/Kg		
Total HpCDF	0.099	-----	0.038	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.130	-----	0.038	BJ			
Total HpCDD	0.220	-----	0.038	BJ			
OCDF	0.190	-----	0.076	BJ			
OCDD	0.870	-----	0.140	BJ			

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

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NC = Not Calculated

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Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK021O		
Lab Sample ID	10247063013		
Filename	F131107A_12		
Injected By	SMT		
Total Amount Extracted	20.5 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 09:27
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 16:37

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.078	0.041	PJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.042	-----	0.041	J	2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	0.052		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	0.120	-----	0.052	BJ	1,2,3,7,8-PeCDD-13C	2.00	94
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	0.053		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.046		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.049		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	0.057		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.057		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	-----	0.038		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.040		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.037				
1,2,3,7,8,9-HxCDF	ND	-----	0.045		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.041		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	0.051				
1,2,3,7,8,9-HxCDD	ND	-----	0.050				
Total HxCDD	ND	-----	0.047				
1,2,3,4,6,7,8-HpCDF	0.049	-----	0.026	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.032		Equivalence: 0.0094 ng/Kg		
Total HpCDF	0.049	-----	0.029	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.098	-----	0.037	BJ			
Total HpCDD	0.200	-----	0.037	BJ			
OCDF	0.180	-----	0.068	BJ			
OCDD	0.830	-----	0.140	BJ			

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

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

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

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK022O		
Lab Sample ID	10247063014		
Filename	F131107A_13		
Injected By	SMT		
Total Amount Extracted	20.2 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 10:20
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 17:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.075	0.031	PJ	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	-----	0.031		2,3,7,8-TCDD-13C	2.00	99
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	0.390	-----	0.058	BJ	1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.048		1,2,3,6,7,8-HxCDF-13C	2.00	101
2,3,4,7,8-PeCDF	ND	-----	0.041		2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	0.045		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	101
1,2,3,7,8-PeCDD	ND	-----	0.073		1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	ND	-----	0.073		1,2,3,4,6,7,8-HpCDF-13C	2.00	82
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.037		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	68
2,3,4,6,7,8-HxCDF	ND	-----	0.038				
1,2,3,7,8,9-HxCDF	ND	-----	0.039		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.037		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.041		2,3,7,8-TCDD-37Cl4	0.20	102
1,2,3,6,7,8-HxCDD	ND	-----	0.044				
1,2,3,7,8,9-HxCDD	ND	-----	0.042				
Total HxCDD	ND	-----	0.042				
1,2,3,4,6,7,8-HpCDF	0.047	-----	0.031	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.040		Equivalence: 0.0092 ng/Kg		
Total HpCDF	0.047	-----	0.035	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.110	-----	0.046	BJ			
Total HpCDD	0.220	-----	0.046	BJ			
OCDF	0.190	-----	0.081	BJ			
OCDD	-----	0.780	0.140	IJ			

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

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

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value
B = Less than 10x higher than method blank level
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Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK023O		
Lab Sample ID	10247063015		
Filename	F131107A_14		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/23/2013 11:36
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 18:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.063	0.040	IJ	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.060	-----	0.040	J	2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.076		2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	0.440	-----	0.076	BJ	1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.059		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.050		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.055		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	0.059		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	0.059		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.041		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	0.044		OCDD-13C	4.00	61
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	ND	-----	0.046		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.036		2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	-----	0.036				
1,2,3,7,8,9-HxCDD	ND	-----	0.036				
Total HxCDD	ND	-----	0.036				
1,2,3,4,6,7,8-HpCDF	-----	0.100	0.035	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.044		Equivalence: 0.010 ng/Kg		
Total HpCDF	0.370	-----	0.039	BJ	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.230	-----	0.041	BJ			
Total HpCDD	0.460	-----	0.041	BJ			
OCDF	1.400	-----	0.120	BJ			
OCDD	2.500	-----	0.150	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
B = Less than 10x higher than method blank level
I = Interference present

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Method 1613B Sample Analysis Results

Client - PASI Wisconsin

Client's Sample ID	MAK024O		
Lab Sample ID	10247063016		
Filename	F131107A_15		
Injected By	SMT		
Total Amount Extracted	8.20 g	Matrix	Tissue
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	09/27/2013 08:28
ICAL ID	F131105	Received	10/23/2013 10:15
CCal Filename(s)	F131107A_01	Extracted	11/04/2013 18:30
Method Blank ID	BLANK-38307	Analyzed	11/07/2013 18:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.19	0.099	IJ	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.14	-----	0.099	J	2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	0.140		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	0.59	-----	0.140	BJ	1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.140		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.089		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.120		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.140		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.140		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	-----	0.100		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.087		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.094				
1,2,3,7,8,9-HxCDF	ND	-----	0.091		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.093		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.097		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.110				
1,2,3,7,8,9-HxCDD	ND	-----	0.130				
Total HxCDD	0.27	-----	0.110	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.11	0.074	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.100		Equivalence: 0.033 ng/Kg		
Total HpCDF	ND	-----	0.088		(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.20	-----	0.180	BJ			
Total HpCDD	1.20	-----	0.180	BJ			
OCDF	0.57	-----	0.200	BJ			
OCDD	4.10	-----	0.390	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
B = Less than 10x higher than method blank level
I = Interference present

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Appendix C

QC and Calibration Results Summary

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

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

Method 1613B Blank Analysis Results

Lab Sample ID	BLANK-38307	Matrix	Tissue
Filename	F131107A_06	Dilution	NA
Total Amount Extracted	20.1 g	Extracted	11/04/2013 18:30
ICAL ID	F131105	Analyzed	11/07/2013 12:07
CCal Filename(s)	F131107A_01	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.067	0.041	IJ	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	ND	-----	0.041		2,3,7,8-TCDD-13C	2.00	94
					1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	0.066		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	0.420	-----	0.066	J	1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	-----	0.049	0.042	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.031		2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	ND	-----	0.037		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	-----	0.056		1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	ND	-----	0.056		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	88
1,2,3,4,7,8-HxCDF	-----	0.050	0.033	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	-----	0.045	0.030	IJ	OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	-----	0.064	0.027	IJ			
1,2,3,7,8,9-HxCDF	-----	0.082	0.030	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.030		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.035		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	0.069	-----	0.034	J			
1,2,3,7,8,9-HxCDD	-----	0.050	0.042	IJ			
Total HxCDD	0.069	-----	0.037	J			
1,2,3,4,6,7,8-HpCDF	0.096	-----	0.026	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	0.072	0.036	IJ	Equivalence: 0.048 ng/Kg		
Total HpCDF	0.160	-----	0.031	J	(Using 1998 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.160	-----	0.045	J			
Total HpCDD	0.270	-----	0.045	J			
OCDF	0.340	-----	0.069	J			
OCDD	0.890	-----	0.082	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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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-38308		
Filename	U131108A_04	Matrix	Tissue
Total Amount Extracted	19.8 g	Dilution	NA
ICAL ID	U131104	Extracted	11/04/2013 18:30
CCal Filename	U131108A_03	Analyzed	11/08/2013 14:58
Method Blank ID	BLANK-38307	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	113
2,3,7,8-TCDD	10	9.4	6.7	15.8	94
1,2,3,7,8-PeCDF	50	53	40.0	67.0	106
2,3,4,7,8-PeCDF	50	52	34.0	80.0	104
1,2,3,7,8-PeCDD	50	47	35.0	71.0	93
1,2,3,4,7,8-HxCDF	50	56	36.0	67.0	112
1,2,3,6,7,8-HxCDF	50	55	42.0	65.0	110
2,3,4,6,7,8-HxCDF	50	52	35.0	78.0	103
1,2,3,7,8,9-HxCDF	50	54	39.0	65.0	108
1,2,3,4,7,8-HxCDD	50	52	35.0	82.0	104
1,2,3,6,7,8-HxCDD	50	61	38.0	67.0	122
1,2,3,7,8,9-HxCDD	50	56	32.0	81.0	112
1,2,3,4,6,7,8-HpCDF	50	56	41.0	61.0	111
1,2,3,4,7,8,9-HpCDF	50	52	39.0	69.0	105
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	99
OCDF	100	120	63.0	170.0	123
OCDD	100	110	78.0	144.0	112
2,3,7,8-TCDD-37Cl4	10	7.6	3.1	19.1	76
2,3,7,8-TCDF-13C	100	70	22.0	152.0	70
2,3,7,8-TCDD-13C	100	80	20.0	175.0	80
1,2,3,7,8-PeCDF-13C	100	72	21.0	192.0	72
2,3,4,7,8-PeCDF-13C	100	59	13.0	328.0	59
1,2,3,7,8-PeCDD-13C	100	62	21.0	227.0	62
1,2,3,4,7,8-HxCDF-13C	100	79	19.0	202.0	79
1,2,3,6,7,8-HxCDF-13C	100	90	21.0	159.0	90
2,3,4,6,7,8-HxCDF-13C	100	95	22.0	176.0	95
1,2,3,7,8,9-HxCDF-13C	100	82	17.0	205.0	82
1,2,3,4,7,8-HxCDD-13C	100	81	21.0	193.0	81
1,2,3,6,7,8-HxCDD-13C	100	78	25.0	163.0	78
1,2,3,4,6,7,8-HpCDF-13C	100	74	21.0	158.0	74
1,2,3,4,7,8,9-HpCDF-13C	100	77	20.0	186.0	77
1,2,3,4,6,7,8-HpCDD-13C	100	79	26.0	166.0	79
OCDD-13C	200	150	26.0	397.0	77

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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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	MAK024O-MS		
Lab Sample ID	10247063016-MS		
Filename	F131107A_03	Matrix	Tissue
Total Amount Extracted	8.20 g	Dilution	NA
ICAL ID	F131105	Extracted	11/04/2013 18:30
CCal Filename(s)	F131107A_01	Analyzed	11/07/2013 09:52
Method Blank ID	BLANK-38307	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	114	2,3,7,8-TCDF-13C	2.00	78
Total TCDF				2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	0.20	0.19	97	2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1.00	1.11	111	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	1.00	1.09	109	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	1.00	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	1.00	1.11	111	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	1.05	105	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	1.00	1.00	100			
1,2,3,7,8,9-HxCDF	1.00	1.05	105	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.05	105	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.00	1.14	114			
1,2,3,7,8,9-HxCDD	1.00	1.13	113			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113			
1,2,3,4,7,8,9-HpCDF	1.00	0.99	99			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.99	99			
Total HpCDD						
OCDF	2.00	2.15	107			
OCDD	2.00	1.97	99			

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

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

Client - PASI Wisconsin

Client's Sample ID	MAK024O-MSD		
Lab Sample ID	10247063016-MSD		
Filename	F131107A_04	Matrix	Tissue
Total Amount Extracted	8.20 g	Dilution	NA
ICAL ID	F131105	Extracted	11/04/2013 18:30
CCal Filename(s)	F131107A_01	Analyzed	11/07/2013 10:37
Method Blank ID	BLANK-38307	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	108	2,3,7,8-TCDF-13C	2.00	81
Total TCDF				2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	0.20	0.19	95	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	1.00	1.08	108	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	1.00	1.06	106	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	1.00	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	1.00	1.07	107	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	1.00	1.04	104	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	1.00	0.97	97			
1,2,3,7,8,9-HxCDF	1.00	1.05	105	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	1.00	1.14	114			
1,2,3,7,8,9-HxCDD	1.00	1.08	108			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.07	107			
1,2,3,4,7,8,9-HpCDF	1.00	1.01	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.96	96			
Total HpCDD						
OCDF	2.00	2.04	102			
OCDD	2.00	1.92	96			

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

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I = Interference present

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Method 1613 Spike Sample Results

Client - PASI Wisconsin

Client Sample ID	MAK024O			Dry Weights	
Lab Sample ID	10247063016	Sample Filename	F131107A_15	Sample Amount	NA
MS ID	10247063016-MS	MS Filename	F131107A_03	MS Amount	NA
MSD ID	10247063016-MSD	MSD Filename	F131107A_04	MSD Amount	NA

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.23	0.22	5.2	113	107	5.2
2,3,7,8-TCDD	0.000	0.20	0.19	0.19	1.6	97	95	1.6
1,2,3,7,8-PeCDF	0.000	1.00	1.11	1.08	3.1	111	108	3.1
2,3,4,7,8-PeCDF	0.000	1.00	1.09	1.06	2.9	109	106	2.9
1,2,3,7,8-PeCDD	0.000	1.00	0.97	0.95	2.1	97	95	2.1
1,2,3,4,7,8-HxCDF	0.000	1.00	1.11	1.07	3.2	111	107	3.2
1,2,3,6,7,8-HxCDF	0.000	1.00	1.05	1.04	1.4	105	104	1.4
2,3,4,6,7,8-HxCDF	0.000	1.00	1.00	0.97	3.4	100	97	3.4
1,2,3,7,8,9-HxCDF	0.000	1.00	1.05	1.05	0.5	105	105	0.5
1,2,3,4,7,8-HxCDD	0.000	1.00	1.05	1.03	2.3	105	103	2.3
1,2,3,6,7,8-HxCDD	0.000	1.00	1.14	1.14	0.4	114	114	0.4
1,2,3,7,8,9-HxCDD	0.000	1.00	1.13	1.08	5.4	113	108	5.4
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.13	1.07	5.4	113	107	5.4
1,2,3,4,7,8,9-HpCDF	0.000	1.00	0.99	1.01	1.6	99	101	1.6
1,2,3,4,6,7,8-HpCDD	1.184	1.00	0.99	0.96	2.4	98	95	2.4
OCDF	0.569	2.00	2.15	2.04	5.0	107	102	5.0
OCDD	4.058	2.00	1.97	1.92	2.6	97	94	2.7

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	**F131105**	Data Files:		Time	Injected
Calibration Date	11/05/2013	CS-1	F131105A_04	09:53	SMT
Instrument	10MSHR05 (F)	CS-2	F131105A_03	09:09	SMT
Column Phase	DB-5MS 0.25mm	CS-3	F131105A_02	08:19	SMT
Column ID No.	USD174324H	CS-4	F131105A_06	11:39	SMT
		CS-5	F131105A_05	10:56	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.8170	0.8446	0.8524	0.8884	0.8834	0.8572	3.43
2,3,7,8-TCDD	0.9119	0.8626	0.9617	0.9410	0.9155	0.9185	4.06
1,2,3,7,8-PeCDF	0.8828	0.8839	0.9038	0.9259	0.9192	0.9031	2.19
2,3,4,7,8-PeCDF	0.9468	0.8927	0.9235	0.9517	0.9431	0.9316	2.60
1,2,3,7,8-PeCDD	0.9019	0.8773	0.8781	0.8956	0.8897	0.8885	1.21
1,2,3,4,7,8-HxCDF	1.1259	1.1172	1.1084	1.1501	1.1066	1.1216	1.58
1,2,3,6,7,8-HxCDF	1.0762	1.0331	1.0441	1.0660	1.0323	1.0504	1.89
2,3,4,6,7,8-HxCDF	1.0867	1.1576	1.1333	1.1672	1.1435	1.1377	2.75
1,2,3,7,8,9-HxCDF	1.0155	1.0177	0.9750	1.0481	1.0219	1.0156	2.58
1,2,3,4,7,8-HxCDD	1.0188	0.9216	0.9391	0.9964	0.8717	0.9495	6.22
1,2,3,6,7,8-HxCDD	0.9307	0.8664	0.8561	0.8544	0.8979	0.8811	3.72
1,2,3,7,8,9-HxCDD	0.9434	0.9347	0.9301	0.9344	0.9224	0.9330	0.82
1,2,3,4,6,7,8-HpCDF	1.2790	1.2692	1.2500	1.2808	1.2438	1.2646	1.33
1,2,3,4,7,8,9-HpCDF	1.3037	1.2702	1.2684	1.2904	1.2546	1.2775	1.52
1,2,3,4,6,7,8-HpCDD	1.2004	1.0387	1.0510	1.0788	1.0214	1.0781	6.64
OCDF	1.0871	0.9639	0.9386	1.0219	0.9926	1.0008	5.74
OCDD	1.3827	1.1117	1.0073	0.9765	0.9240	1.0804	16.88
Total PeCDF	0.9148	0.8883	0.9137	0.9388	0.9312	0.9173	2.12
Total HxCDF	1.0761	1.0814	1.0652	1.1079	1.0761	1.0813	1.48
Total HxCDD	0.9643	0.9076	0.9084	0.9284	0.8974	0.9212	2.89
Total HpCDF	1.2913	1.2697	1.2592	1.2856	1.2492	1.2710	1.39
2,3,7,8-TCDF-13C	1.2653	1.2021	1.2047	1.2196	1.2498	1.2283	2.28
2,3,7,8-TCDD-13C	0.9738	0.9632	0.9630	0.9840	1.0186	0.9805	2.35
2,3,7,8-TCDD-37Cl4	0.9424	0.9570	0.9778	1.0693	1.0765	1.0046	6.34
1,2,3,7,8-PeCDF-13C	0.9578	0.9680	0.9626	0.9785	1.0226	0.9779	2.67
2,3,4,7,8-PeCDF-13C	0.9453	0.9747	0.9711	0.9925	1.0397	0.9847	3.56
1,2,3,7,8-PeCDD-13C	0.7325	0.7407	0.7395	0.7683	0.8084	0.7579	4.14
1,2,3,4,7,8-HxCDF-13C	0.9016	0.9226	0.9205	0.9458	0.9497	0.9280	2.14
1,2,3,6,7,8-HxCDF-13C	1.1427	1.1709	1.1555	1.1860	1.1567	1.1624	1.43
2,3,4,6,7,8-HxCDF-13C	1.0742	1.0003	1.0086	1.0373	1.0063	1.0253	3.01
1,2,3,7,8,9-HxCDF-13C	1.0014	0.9963	1.0042	1.0215	1.0275	1.0102	1.34
1,2,3,4,7,8-HxCDD-13C	0.8457	0.8203	0.8492	0.8263	0.8791	0.8441	2.74
1,2,3,6,7,8-HxCDD-13C	1.0737	1.1297	1.1000	1.1667	1.0938	1.1128	3.25
1,2,3,4,6,7,8-HpCDF-13C	1.1547	1.1665	1.1931	1.1980	1.1915	1.1807	1.61
1,2,3,4,7,8,9-HpCDF-13C	0.9401	0.9359	0.9441	0.9862	0.9996	0.9612	3.07
1,2,3,4,6,7,8-HpCDD-13C	1.0250	1.0623	1.0943	1.0718	1.1095	1.0726	3.02
OCDD-13C	0.9163	0.9583	0.9776	1.0007	1.0395	0.9785	4.71

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

ICAL ID	**F131105**	Data Files:		Time	Injected
Calibration Date	11/05/2013	CS-1	F131105A_04	09:53	SMT
Instrument	10MSHR05 (F)	CS-2	F131105A_03	09:09	SMT
Column Phase	DB-5MS 0.25mm	CS-3	F131105A_02	08:19	SMT
Column ID No.	USD174324H	CS-4	F131105A_06	11:39	SMT
		CS-5	F131105A_05	10:56	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.66	0.74	0.77	0.77	0.77	0.65 - 0.89
2,3,7,8-TCDD	0.77	0.73	0.75	0.76	0.76	0.65 - 0.89
1,2,3,7,8-PeCDF	1.59	1.56	1.55	1.55	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF	1.55	1.57	1.52	1.53	1.55	1.32 - 1.78
1,2,3,7,8-PeCDD	0.59	0.61	0.60	0.60	0.60	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.30	1.26	1.25	1.25	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.30	1.30	1.27	1.24	1.22	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.31	1.27	1.25	1.24	1.23	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.25	1.21	1.27	1.26	1.25	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.30	1.22	1.32	1.31	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.29	1.21	1.15	1.15	1.24	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.24	1.23	1.27	1.23	1.24	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.03	0.98	1.00	1.03	1.02	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	0.99	0.99	1.01	1.02	1.01	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.02	1.02	1.05	1.04	1.05	0.88 - 1.20
OCDF	0.94	0.89	0.89	0.89	0.90	0.76 - 1.02
OCDD	0.90	0.88	0.87	0.86	0.88	0.76 - 1.02
1,2,3,4-TCDD-13C	0.78	0.79	0.80	0.78	0.78	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.21	1.24	1.21	1.23	1.23	1.05 - 1.43
2,3,7,8-TCDF-13C	0.76	0.77	0.77	0.76	0.77	0.65 - 0.89
2,3,7,8-TCDD-13C	0.78	0.77	0.78	0.79	0.77	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.58	1.57	1.53	1.54	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.52	1.56	1.55	1.55	1.55	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.54	1.54	1.54	1.53	1.52	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.51	0.52	0.52	0.52	0.52	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.53	0.52	0.52	0.52	0.52	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.52	0.52	0.52	0.52	0.53	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.51	0.52	0.51	0.52	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.26	1.23	1.14	1.23	1.31	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.23	1.22	1.33	1.22	1.15	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.46	0.46	0.44	0.46	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.44	0.43	0.45	0.44	0.45	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.09	1.10	1.09	1.06	1.06	0.88 - 1.20
OCDD-13C	0.90	0.89	0.90	0.88	0.89	0.76 - 1.02

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

ICAL ID	**U131104**	Data Files:		Time	Injected
Calibration Date	11/04/2013	CS-1	U131104A_08	14:45	SMT
Instrument	10MSHR06 (U)	CS-2	U131104A_02	10:24	SMT
Column Phase	DB-5MS 0.25mm	CS-3	U131104A_01	09:19	SMT
Column ID No.	USD227224H	CS-4	U131104A_05	13:13	SMT
		CS-5	U131104A_04	12:28	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.8577	0.8868	0.8729	0.9088	0.8668	0.8786	2.27
2,3,7,8-TCDD	1.0403	1.0632	1.0458	1.0943	1.0332	1.0554	2.32
1,2,3,7,8-PeCDF	0.8481	0.8902	0.8633	0.9254	0.8744	0.8802	3.36
2,3,4,7,8-PeCDF	0.9614	0.8996	0.8684	0.9472	0.8959	0.9145	4.22
1,2,3,7,8-PeCDD	1.0328	1.0131	0.9420	1.0361	0.9777	1.0004	4.00
1,2,3,4,7,8-HxCDF	1.0447	1.0322	1.0035	1.0782	1.0003	1.0318	3.11
1,2,3,6,7,8-HxCDF	0.9357	0.9576	0.9687	1.0632	0.9975	0.9845	5.01
2,3,4,6,7,8-HxCDF	1.0314	1.0577	1.0501	1.1391	1.1046	1.0766	4.10
1,2,3,7,8,9-HxCDF	0.9471	0.8928	0.9088	1.0289	0.9415	0.9438	5.58
1,2,3,4,7,8-HxCDD	1.0976	0.9413	0.9779	1.0584	0.9740	1.0099	6.47
1,2,3,6,7,8-HxCDD	0.9128	0.9286	0.8854	0.9736	0.8977	0.9196	3.72
1,2,3,7,8,9-HxCDD	0.9407	0.9148	0.9480	1.0011	0.9366	0.9482	3.38
1,2,3,4,6,7,8-HpCDF	1.3540	1.3027	1.3130	1.4421	1.3184	1.3460	4.24
1,2,3,4,7,8,9-HpCDF	1.3154	1.2684	1.2881	1.4365	1.2960	1.3209	5.06
1,2,3,4,6,7,8-HpCDD	1.0790	1.0691	1.0755	1.1277	1.0504	1.0803	2.65
OCDF	1.1981	1.1401	1.1584	1.3763	1.2482	1.2242	7.73
OCDD	1.0597	1.0244	0.9585	1.1201	0.9905	1.0306	6.08
Total PeCDF	0.9048	0.8949	0.8658	0.9363	0.8852	0.8974	2.91
Total HxCDF	0.9897	0.9851	0.9828	1.0774	1.0110	1.0092	3.94
Total HxCDD	0.9837	0.9282	0.9371	1.0110	0.9361	0.9592	3.78
Total HpCDF	1.3347	1.2856	1.3006	1.4393	1.3072	1.3335	4.63
2,3,7,8-TCDF-13C	1.5131	1.4653	1.4398	1.4818	1.4819	1.4764	1.81
2,3,7,8-TCDD-13C	0.9686	0.9533	0.9797	0.9843	1.0275	0.9827	2.83
2,3,7,8-TCDD-37Cl4	1.1876	1.1145	1.0758	1.1580	1.1709	1.1414	3.99
1,2,3,7,8-PeCDF-13C	0.9847	0.9073	0.9820	1.0387	1.1280	1.0082	8.11
2,3,4,7,8-PeCDF-13C	0.9917	0.9437	1.0254	1.0573	1.1555	1.0347	7.69
1,2,3,7,8-PeCDD-13C	0.6206	0.5955	0.6626	0.6835	0.7728	0.6670	10.27
1,2,3,4,7,8-HxCDF-13C	1.0763	1.0531	1.0374	1.0482	1.0188	1.0468	2.02
1,2,3,6,7,8-HxCDF-13C	1.3318	1.3301	1.3133	1.2911	1.3049	1.3142	1.31
2,3,4,6,7,8-HxCDF-13C	1.2284	1.1549	1.1531	1.1226	1.0892	1.1496	4.48
1,2,3,7,8,9-HxCDF-13C	1.0342	1.0522	1.0441	1.0253	1.0444	1.0400	1.00
1,2,3,4,7,8-HxCDD-13C	0.8591	0.8837	0.8522	0.8691	0.8648	0.8658	1.37
1,2,3,6,7,8-HxCDD-13C	1.1264	1.1173	1.1946	1.1343	1.1701	1.1486	2.84
1,2,3,4,6,7,8-HpCDF-13C	1.0275	1.0592	1.1059	1.0066	1.0304	1.0459	3.67
1,2,3,4,7,8,9-HpCDF-13C	0.7602	0.8077	0.8601	0.7770	0.8212	0.8052	4.85
1,2,3,4,6,7,8-HpCDD-13C	0.7306	0.7894	0.8252	0.7621	0.7873	0.7789	4.51
OCDD-13C	0.5742	0.6745	0.7525	0.6362	0.7234	0.6722	10.51

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

ICAL ID	**U131104**	Data Files:		Time	Injected
Calibration Date	11/04/2013	CS-1	U131104A_08	14:45	SMT
Instrument	10MSHR06 (U)	CS-2	U131104A_02	10:24	SMT
Column Phase	DB-5MS 0.25mm	CS-3	U131104A_01	09:19	SMT
Column ID No.	USD227224H	CS-4	U131104A_05	13:13	SMT
		CS-5	U131104A_04	12:28	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.70	0.79	0.78	0.75	0.76	0.65 - 0.89
2,3,7,8-TCDD	0.71	0.74	0.81	0.78	0.77	0.65 - 0.89
1,2,3,7,8-PeCDF	1.58	1.43	1.49	1.52	1.53	1.32 - 1.78
2,3,4,7,8-PeCDF	1.43	1.52	1.50	1.52	1.52	1.32 - 1.78
1,2,3,7,8-PeCDD	0.53	0.63	0.61	0.61	0.61	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.19	1.24	1.20	1.21	1.21	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.23	1.16	1.20	1.19	1.22	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.12	1.22	1.21	1.17	1.22	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.15	1.24	1.19	1.20	1.24	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.33	1.32	1.30	1.22	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.07	1.13	1.20	1.21	1.23	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.28	1.16	1.27	1.25	1.23	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.12	1.05	1.02	1.03	1.04	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.04	1.05	1.03	1.04	1.04	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.05	1.08	1.02	1.02	1.03	0.88 - 1.20
OCDF	0.91	0.92	0.89	0.88	0.90	0.76 - 1.02
OCDD	0.86	0.89	0.88	0.91	0.88	0.76 - 1.02
1,2,3,4-TCDD-13C	0.80	0.77	0.78	0.79	0.79	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.25	1.23	1.19	1.23	1.24	1.05 - 1.43
2,3,7,8-TCDF-13C	0.78	0.78	0.77	0.77	0.79	0.65 - 0.89
2,3,7,8-TCDD-13C	0.80	0.79	0.79	0.79	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.53	1.53	1.56	1.55	1.54	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.55	1.56	1.56	1.55	1.54	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.54	1.58	1.58	1.57	1.54	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.52	0.51	0.51	0.50	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.51	0.51	0.51	0.53	0.51	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.50	0.50	0.52	0.51	0.53	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.51	0.52	0.49	0.52	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.26	1.27	1.23	1.27	1.24	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.26	1.25	1.26	1.25	1.24	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.45	0.43	0.46	0.45	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.46	0.47	0.47	0.45	0.45	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.09	1.05	1.05	1.06	1.08	0.88 - 1.20
OCDD-13C	0.90	0.91	0.87	0.90	0.89	0.76 - 1.02

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

Lab Name	CS3/CPM-7604-286		
Filename	F131106A_01	Instrument ID	10MSHR05 (F)
Injected By	BAL	GC Column ID	USD174324H
Analyzed	11/06/2013 18:18	ICAL ID	F131105

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	0.77	0.65 - 0.89	100.7	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.59	1.32 - 1.78	108.2	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.39	1.05 - 1.43	100.1	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.18	1.05 - 1.43	100.1	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.24	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.06	0.88 - 1.20	96.9	72 - 138
OCDD-13C	M+2/M+4	0.89	0.76 - 1.02	202.5	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.77	0.65 - 0.89	109.1	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.59	1.32 - 1.78	111.6	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.57	1.32 - 1.78	114.5	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	105.3	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	101.6	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	102.6	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	102.7	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	101.2	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.3	7.9 - 12.7

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

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

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

4. No ion abundance ratio; report concentration found.

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

Lab Name	CS3/CPM-7604-286		
Filename	F131106A_01	Instrument ID	10MSHR05 (F)
Injected By	BAL	GC Column ID	USD174324H
Analyzed	11/06/2013 18:18	ICAL ID	F131105

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	10.8	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.60	0.52 - 0.70	50.2	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05 - 1.43	50.8	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05 - 1.43	47.9	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05 - 1.43	50.0	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88 - 1.20	46.6	43 - 58
OCDD	M+2/M+4	0.90	0.76 - 1.02	85.6	79 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65 - 0.89	9.9	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32 - 1.78	50.7	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	50.2	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	46.8	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.28	1.05 - 1.43	49.8	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	48.7	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05 - 1.43	48.8	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88 - 1.20	48.1	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88 - 1.20	49.1	43 - 58
OCDF	M+2/M+4	0.90	0.76 - 1.02	100.9	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-7604-286		
Filename	F131107A_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD174324H
Analyzed	11/07/2013 08:24	ICAL ID	F131105

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.77	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.77	0.65 - 0.89	101.2	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.53	1.32 - 1.78	108.4	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.22	1.05 - 1.43	101.8	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	104.4	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	1.04	0.88 - 1.20	86.3	72 - 138
OCDD-13C	M+2/M+4	0.87	0.76 - 1.02	174.9	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	104.9	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	110.9	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.56	1.32 - 1.78	111.3	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.54	0.43 - 0.59	109.6	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.50	0.43 - 0.59	105.0	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	105.1	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	102.9	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	85.3	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.44	0.37 - 0.51	90.8	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.3	7.9 - 12.7

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

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

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

4. No ion abundance ratio; report concentration found.

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

Lab Name	CS3/CPM-7604-286		
Filename	F131107A_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD174324H
Analyzed	11/07/2013 08:24	ICAL ID	F131105

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.76	0.65 - 0.89	10.5	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.61	0.52 - 0.70	50.1	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.35	1.05 - 1.43	50.7	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.18	1.05 - 1.43	48.1	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05 - 1.43	48.9	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88 - 1.20	48.2	43 - 58
OCDD	M+2/M+4	0.89	0.76 - 1.02	85.8	79 - 126
2,3,7,8-TCDF	M/M+2	0.76	0.65 - 0.89	10.2	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32 - 1.78	50.1	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32 - 1.78	50.7	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05 - 1.43	48.5	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	50.4	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	49.8	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05 - 1.43	49.3	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.98	0.88 - 1.20	49.6	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88 - 1.20	48.6	43 - 58
OCDF	M+2/M+4	0.90	0.76 - 1.02	92.6	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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Method 1613B Analysis Results
PCDD/PCDF Calibration Verification
Labeled Analytes

Lab Name	CS3/CPM-7604-286		
Filename	F131107B_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD174324H
Analyzed	11/07/2013 19:37	ICAL ID	F131105

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.80	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.78	0.65 - 0.89	102.6	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.54	1.32 - 1.78	108.5	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	101.6	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.22	1.05 - 1.43	100.3	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.07	0.88 - 1.20	87.4	72 - 138
OCDD-13C	M+2/M+4	0.88	0.76 - 1.02	175.3	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	104.2	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	106.8	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.56	1.32 - 1.78	108.2	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	105.5	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	102.9	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	100.3	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	100.2	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.46	0.37 - 0.51	89.7	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.43	0.37 - 0.51	88.4	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		10.4	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-7604-286		
Filename	F131107B_01	Instrument ID	10MSHR05 (F)
Injected By	SMT	GC Column ID	USD174324H
Analyzed	11/07/2013 19:37	ICAL ID	F131105

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.72	0.65 - 0.89	10.5	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.62	0.52 - 0.70	49.6	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05 - 1.43	48.3	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05 - 1.43	50.0	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05 - 1.43	49.6	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88 - 1.20	47.1	43 - 58
OCDD	M+2/M+4	0.84	0.76 - 1.02	84.1	79 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65 - 0.89	10.3	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32 - 1.78	52.1	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32 - 1.78	51.3	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05 - 1.43	49.4	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05 - 1.43	48.8	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05 - 1.43	49.9	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05 - 1.43	48.6	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88 - 1.20	49.2	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.96	0.88 - 1.20	48.6	43 - 58
OCDF	M+2/M+4	0.89	0.76 - 1.02	92.4	63 - 159

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

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

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

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

Lab Name	CS3/CPM-7604-286		
Filename	U131108A_03	Instrument ID	10MSHR06 (U)
Injected By	BAL	GC Column ID	USD227224H
Analyzed	11/08/2013 13:53	ICAL ID	U131104

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
Labeled Compounds					
1,2,3,4-TCDD-13C	M/M+2	0.81	0.65 - 0.89	-----	-----
2,3,7,8-TCDD-13C	M/M+2	0.79	0.65 - 0.89	97.8	82 - 121
1,2,3,7,8-PeCDD-13C	M+2/M+4	1.54	1.32 - 1.78	80.0	62 - 160
1,2,3,4,7,8-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	95.8	85 - 117
1,2,3,6,7,8-HxCDD-13C	M+2/M+4	1.23	1.05 - 1.43	105.9	85 - 118
1,2,3,7,8,9-HxCDD-13C	M+2/M+4	1.25	1.05 - 1.43	-----	-----
1,2,3,4,6,7,8-HpCDD-13C	M+2/M+4	1.04	0.88 - 1.20	89.5	72 - 138
OCDD-13C	M+2/M+4	0.89	0.76 - 1.02	195.6	96 - 415
2,3,7,8-TCDF-13C	M/M+2	0.78	0.65 - 0.89	102.2	71 - 140
1,2,3,7,8-PeCDF-13C	M+2/M+4	1.58	1.32 - 1.78	90.1	76 - 130
2,3,4,7,8-PeCDF-13C	M+2/M+4	1.55	1.32 - 1.78	88.6	77 - 130
1,2,3,4,7,8-HxCDF-13C	M/M+2	0.52	0.43 - 0.59	106.4	76 - 131
1,2,3,6,7,8-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	114.2	70 - 143
2,3,4,6,7,8-HxCDF-13C	M/M+2	0.51	0.43 - 0.59	110.5	73 - 137
1,2,3,7,8,9-HxCDF-13C	M/M+2	0.53	0.43 - 0.59	104.6	74 - 135
1,2,3,4,6,7,8-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	97.0	78 - 129
1,2,3,4,7,8,9-HpCDF-13C	M/M+2	0.45	0.37 - 0.51	93.2	77 - 129
Cleanup Standard					
2,3,7,8-TCDD-37Cl4	M+2/M+4	(4)		9.5	7.9 - 12.7

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

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

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

4. No ion abundance ratio; report concentration found.

REPORT OF LABORATORY ANALYSIS

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Fax: 612- 607-6444

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

Lab Name	CS3/CPM-7604-286		
Filename	U131108A_03	Instrument ID	10MSHR06 (U)
Injected By	BAL	GC Column ID	USD227224H
Analyzed	11/08/2013 13:53	ICAL ID	U131104

Native Isomers	m/z's Forming Ratio (1)	Ion Abund. Ratio	QC Limits (2)	Conc Found	Conc. Range (ng/ml) (3)
2,3,7,8-TCDD	M/M+2	0.74	0.65 - 0.89	11.4	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	0.62	0.52 - 0.70	51.8	39 - 65
1,2,3,4,7,8-HxCDD	M+2/M+4	1.18	1.05 - 1.43	53.3	39 - 64
1,2,3,6,7,8-HxCDD	M+2/M+4	1.34	1.05 - 1.43	52.8	39 - 64
1,2,3,7,8,9-HxCDD	M+2/M+4	1.18	1.05 - 1.43	51.6	41 - 61
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.88 - 1.20	50.1	43 - 58
OCDD	M+2/M+4	0.91	0.76 - 1.02	96.4	79 - 126
2,3,7,8-TCDF	M/M+2	0.81	0.65 - 0.89	10.5	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32 - 1.78	52.8	41 - 60
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32 - 1.78	51.5	41 - 61
1,2,3,4,7,8-HxCDF	M+2/M+4	1.18	1.05 - 1.43	51.9	45 - 56
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	52.4	44 - 57
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05 - 1.43	50.1	44 - 57
1,2,3,7,8,9-HxCDF	M+2/M+4	1.18	1.05 - 1.43	51.2	45 - 56
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88 - 1.20	49.8	45 - 55
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88 - 1.20	49.3	43 - 58
OCDF	M+2/M+4	0.94	0.76 - 1.02	108.2	63 - 159

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

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

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

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Appendix D

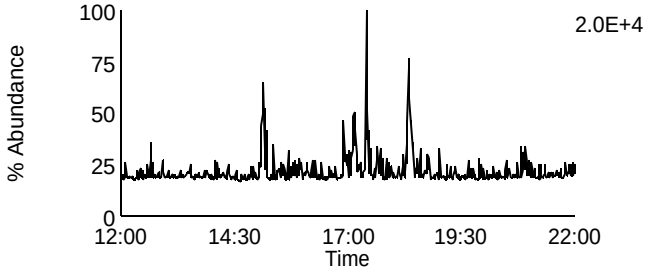
Sample Raw Data

Homologue Group: Tetras

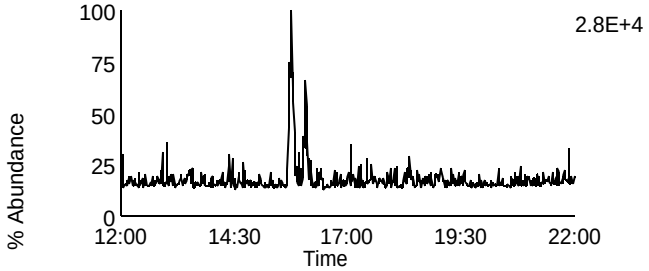
Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)

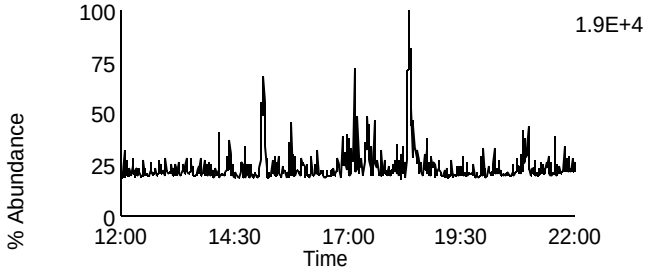
Data File: F131107B_06 G1 C1 - 303.9016
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G1 C7 - 319.8965
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G1 C2 - 305.8987
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G1 C8 - 321.8936
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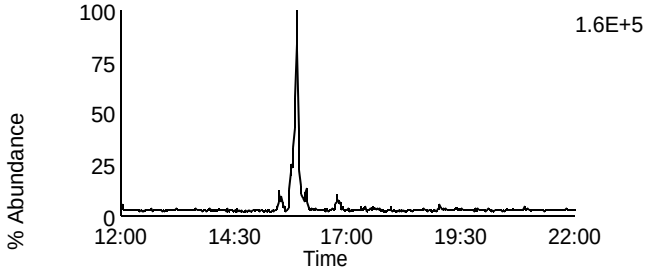
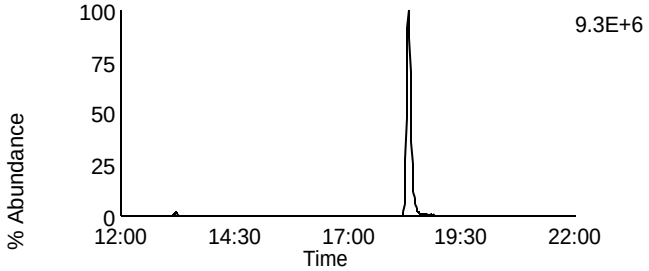
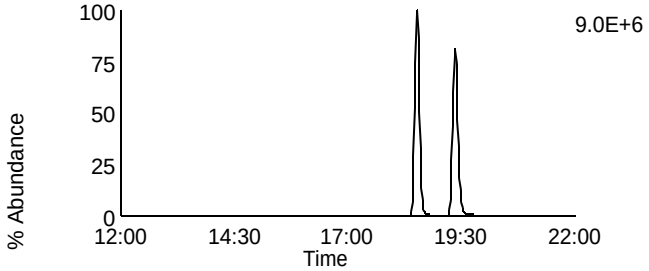


Data File: F131107B_06 G1 C3 - 315.9418
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G1 C10 - 331.9367
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G1 C4 - 317.9389
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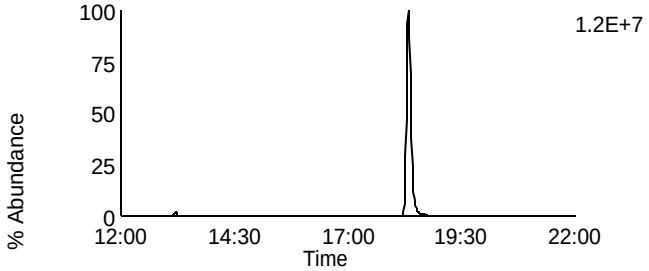

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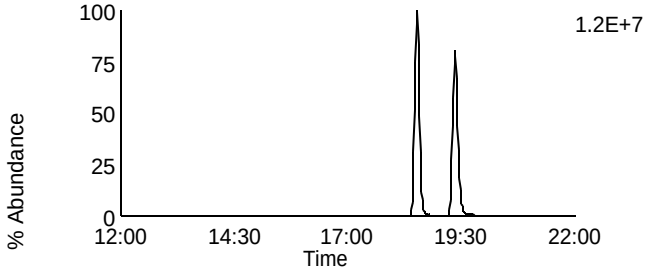
SAMP 10247063001 - SMT PASI-WI co check



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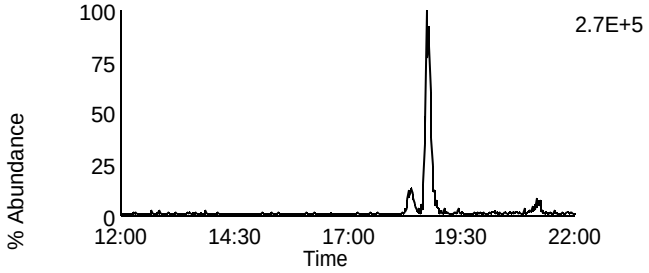
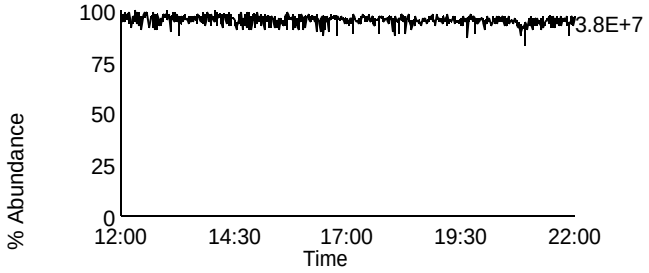
SAMP 10247063001 - SMT PASI-WI co check



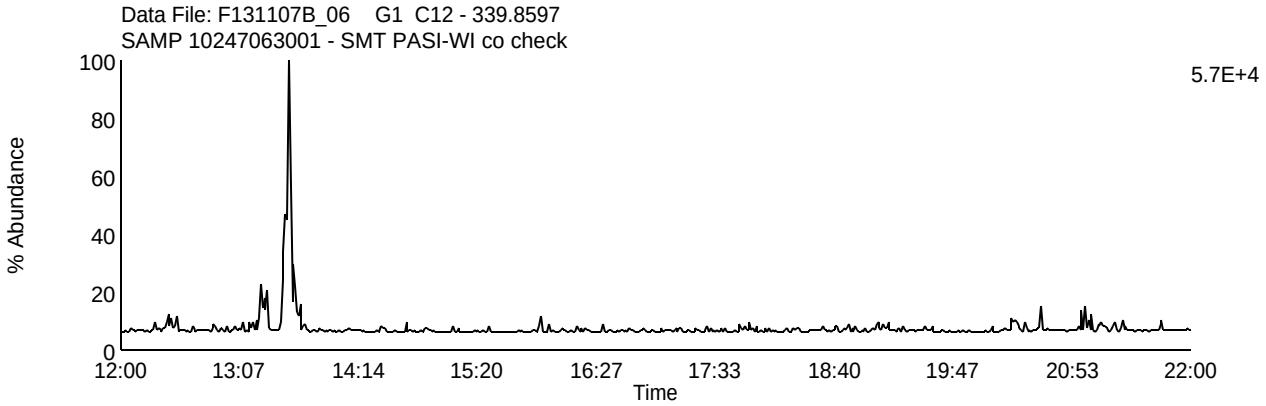
Data File: F131107B_06 G1 C5 - 318.9792
SAMP 10247063001 - SMT PASI-WI co check

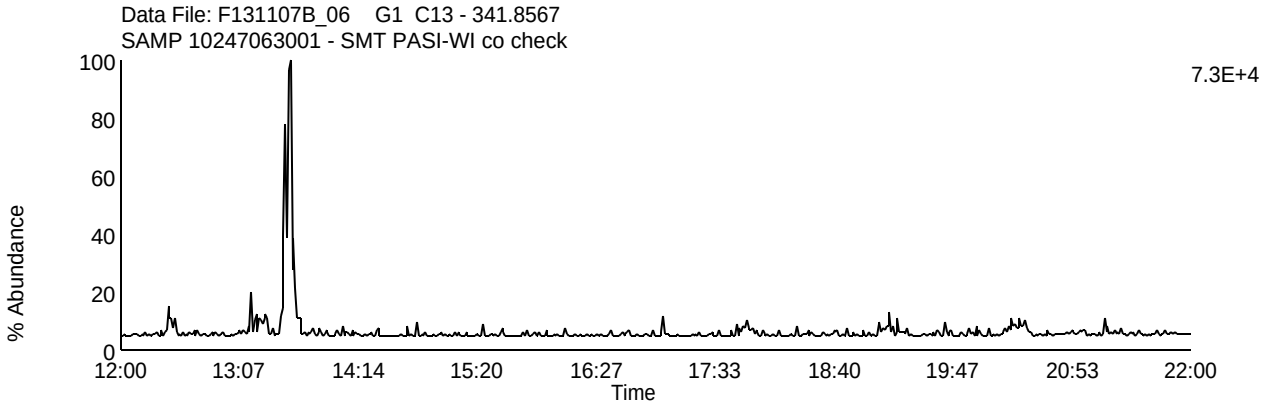


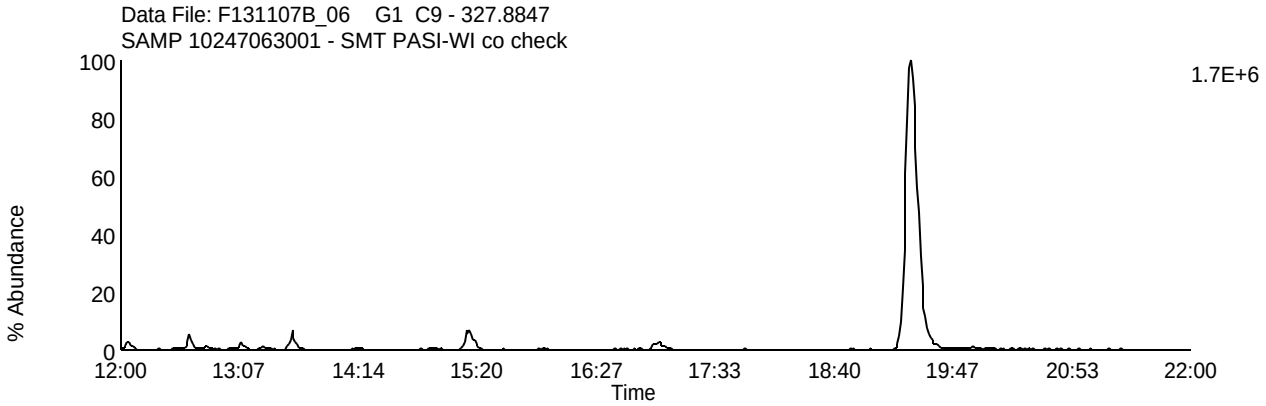
Homologue Group: Penta & Cleanup

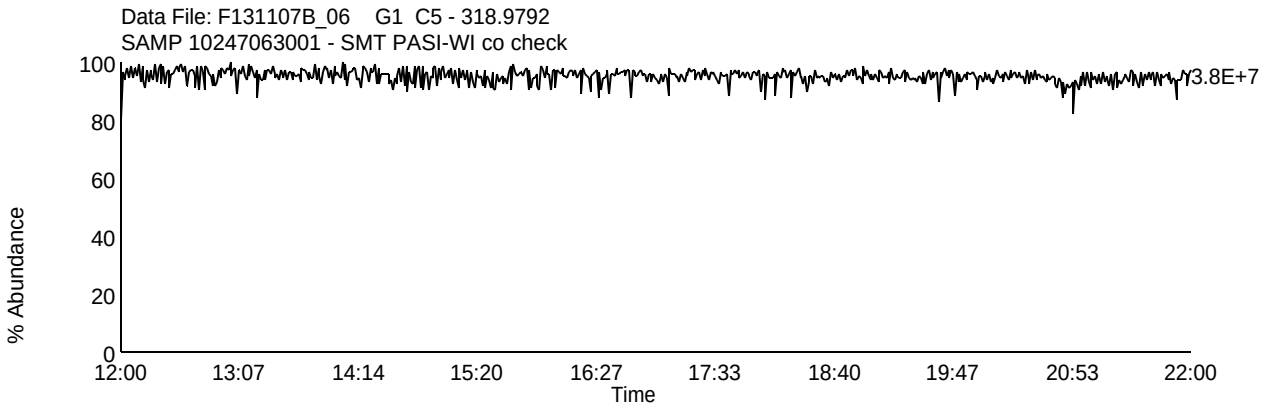
Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)







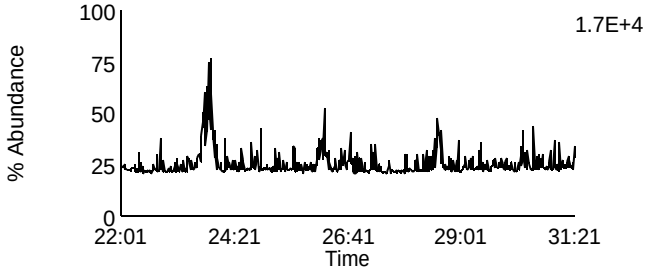


Homologue Group: Pentas

Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)

Data File: F131107B_06 G2 C1 - 339.8597
SAMP 10247063001 - SMT PASI-WI co check



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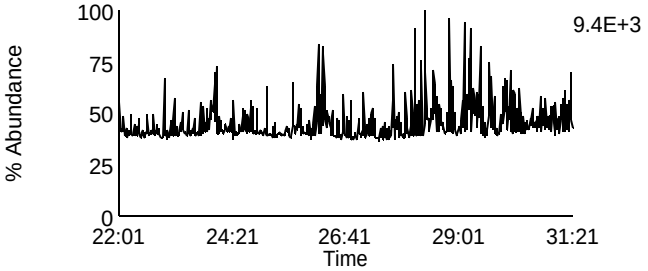
SAMP 10247063001 - SMT PASI-WI co check



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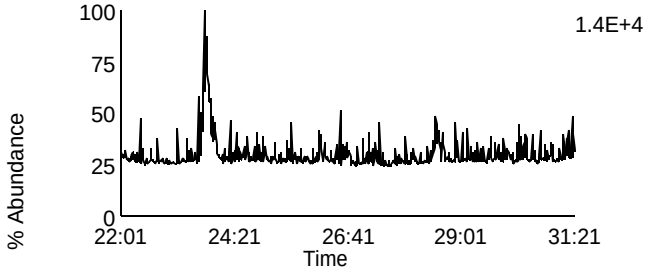
SAMP 10247063001 - SMT PASI-WI co check



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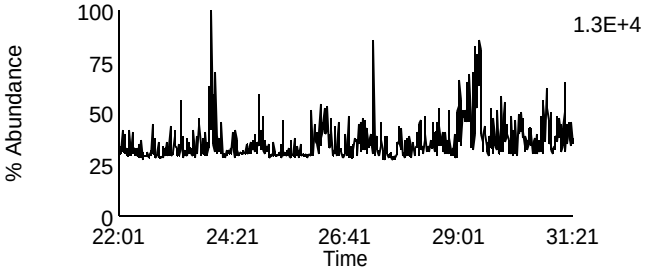
SAMP 10247063001 - SMT PASI-WI co check



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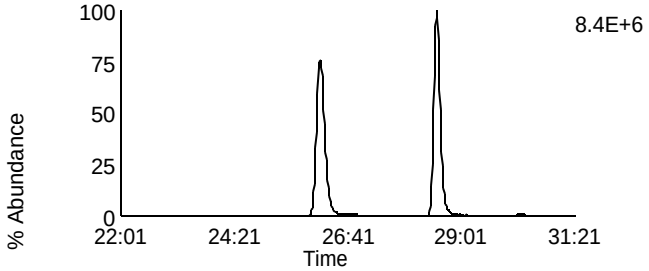
SAMP 10247063001 - SMT PASI-WI co check



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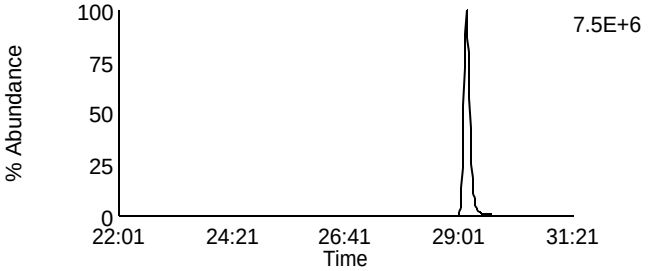
SAMP 10247063001 - SMT PASI-WI co check



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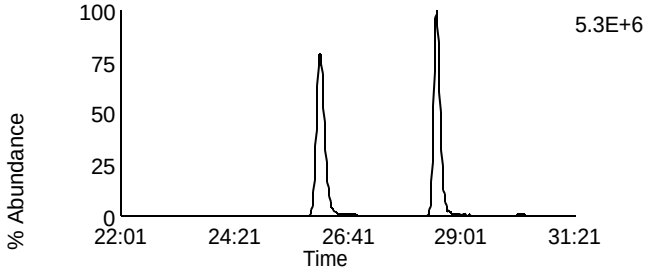
SAMP 10247063001 - SMT PASI-WI co check



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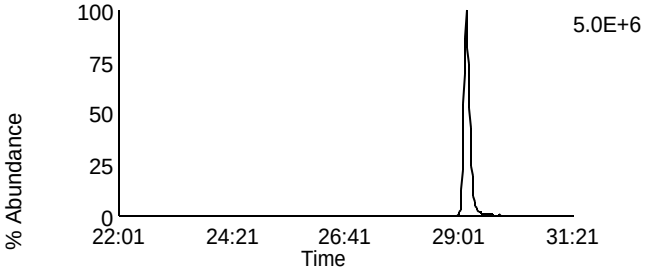
SAMP 10247063001 - SMT PASI-WI co check



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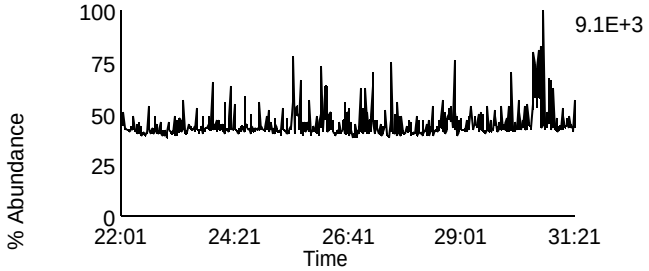
SAMP 10247063001 - SMT PASI-WI co check



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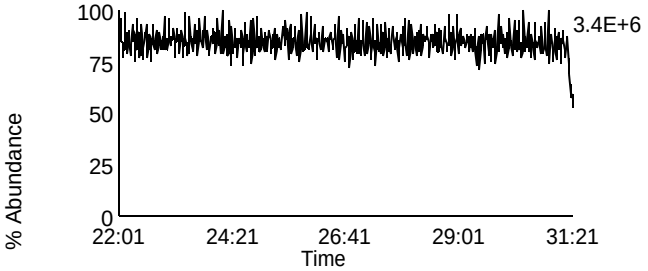
SAMP 10247063001 - SMT PASI-WI co check

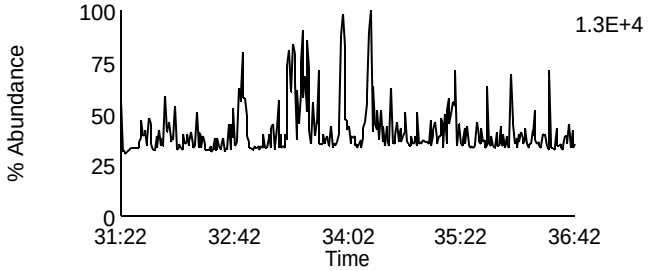


Homologue Group: Hexas

Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)

Data File: F131107B_06 G3 C1 - 373.8207
SAMP 10247063001 - SMT PASI-WI co check



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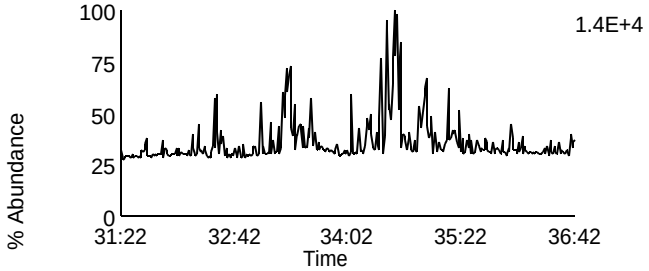
SAMP 10247063001 - SMT PASI-WI co check



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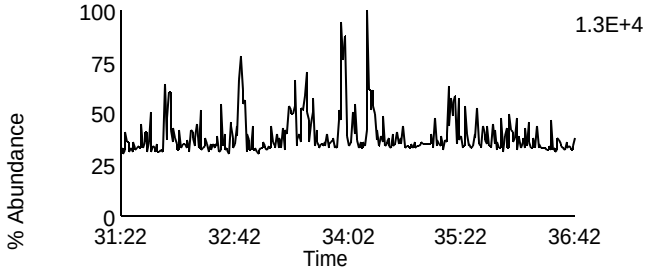
SAMP 10247063001 - SMT PASI-WI co check



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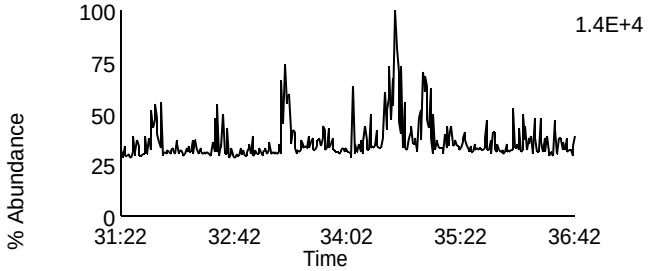

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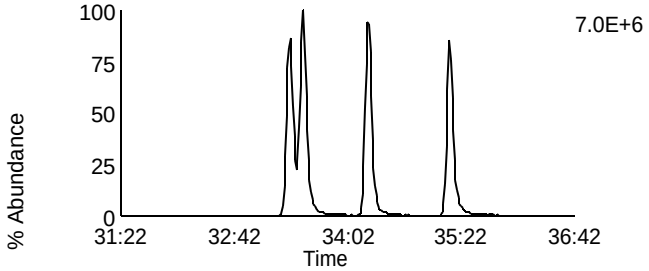

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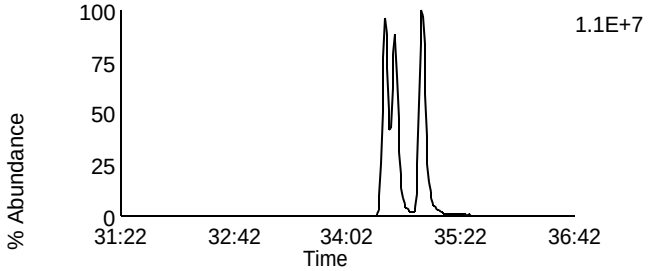
SAMP 10247063001 - SMT PASI-WI co check



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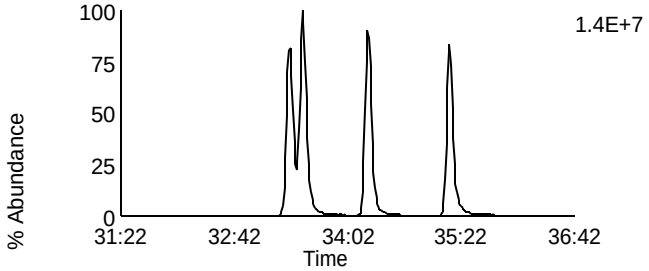
SAMP 10247063001 - SMT PASI-WI co check



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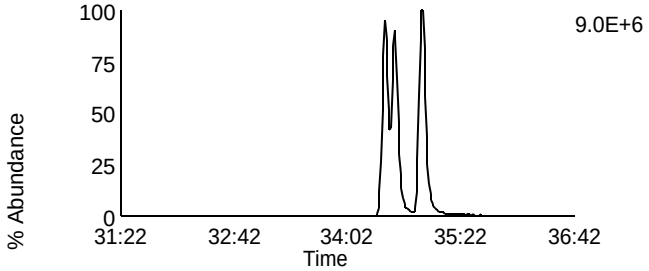

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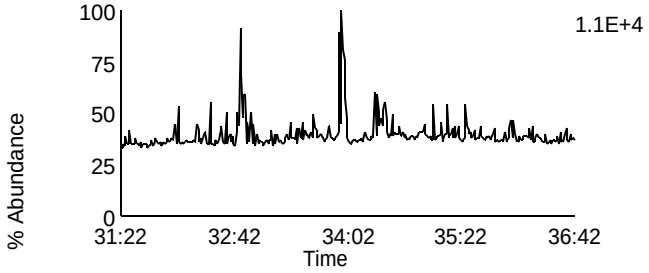
SAMP 10247063001 - SMT PASI-WI co check



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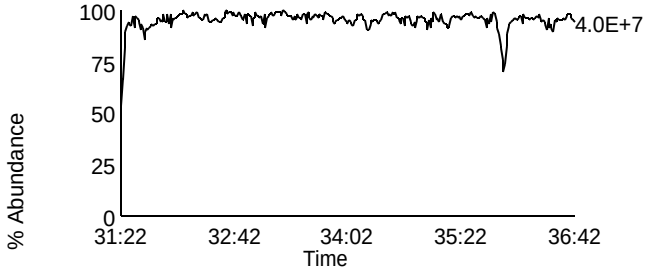
SAMP 10247063001 - SMT PASI-WI co check

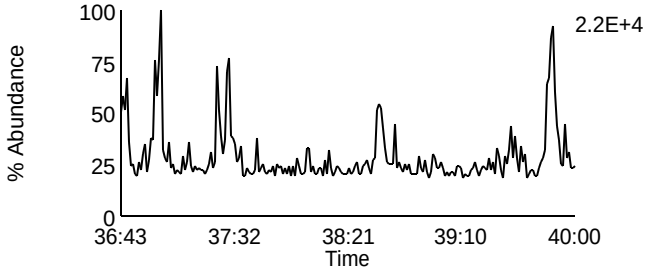


Homologue Group: Heptas

Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)

Data File: F131107B_06 G4 C3 - 407.7818
SAMP 10247063001 - SMT PASI-WI co check



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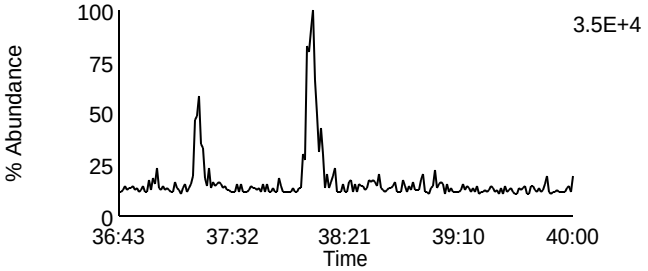

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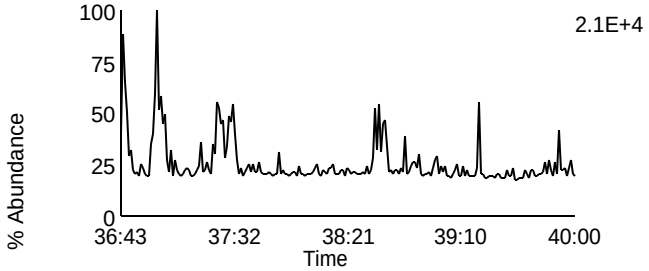

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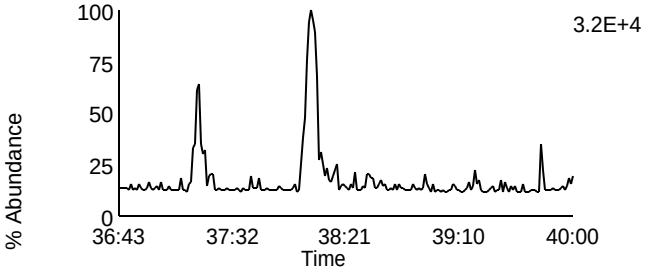

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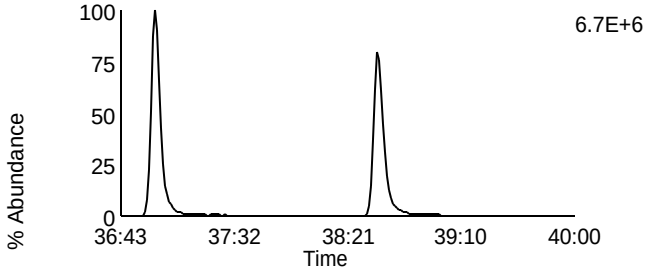
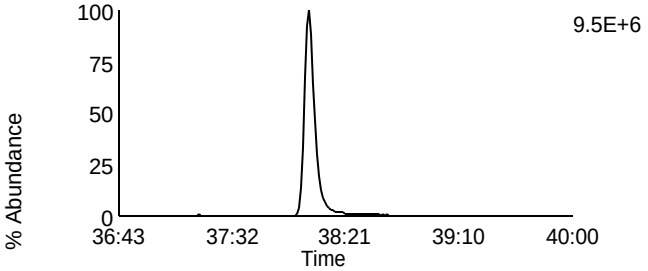
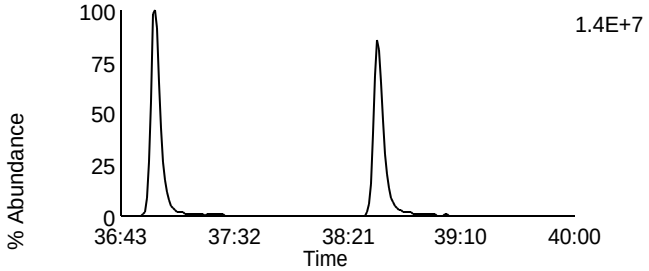


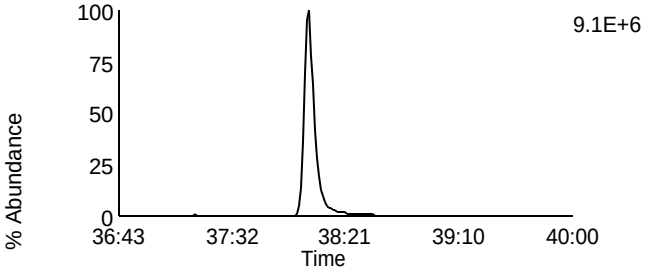
Data File: F131107B_06 G4 C11 - 435.8169
SAMP 10247063001 - SMT PASI-WI co check



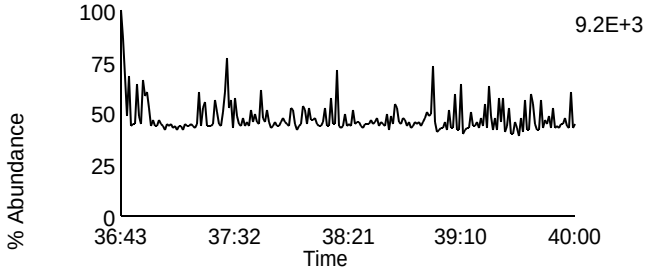
Data File: F131107B_06 G4 C7 - 419.822
SAMP 10247063001 - SMT PASI-WI co check



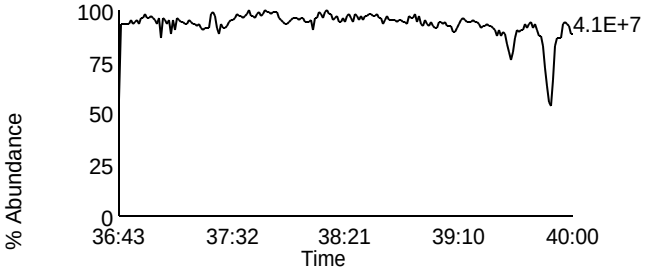
Data File: F131107B_06 G4 C12 - 437.814
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G4 C13 - 479.7165
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G4 C1 - 380.976
SAMP 10247063001 - SMT PASI-WI co check

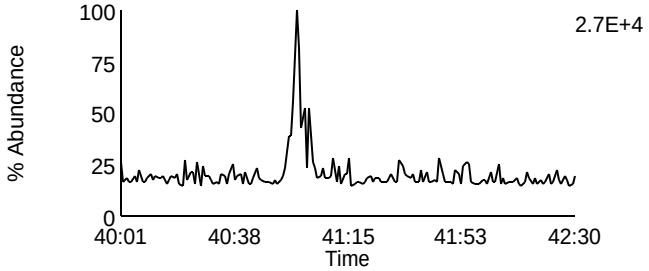


Homologue Group: Octas

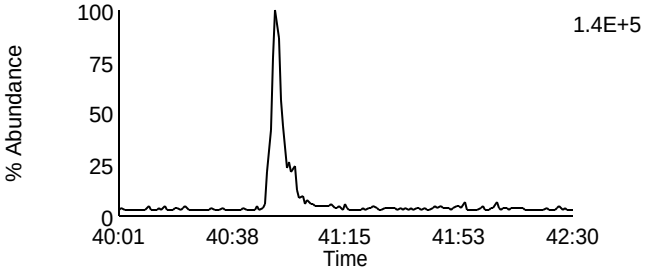
Data File Name: F131107B_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063001 - SMT PASI-WI co check

Lab Sample ID: 10247063001
Client Sample ID: MAK009O
Instrument: 10MSHR05 (F)

Data File: F131107B_06 G5 C4 - 441.7428
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G5 C8 - 457.7377
SAMP 10247063001 - SMT PASI-WI co check



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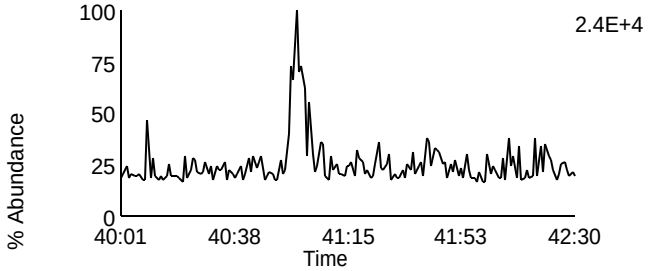
SAMP 10247063001 - SMT PASI-WI co check



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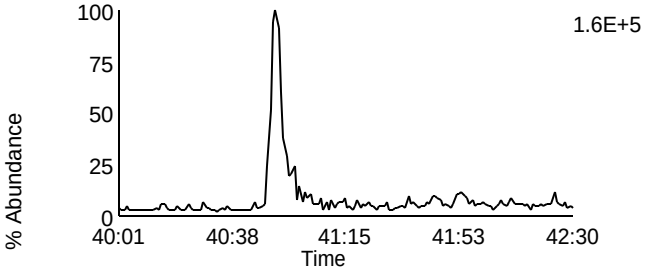
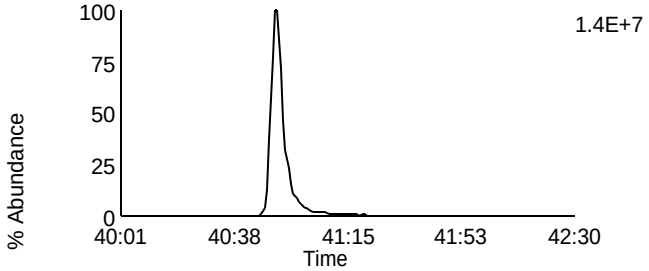
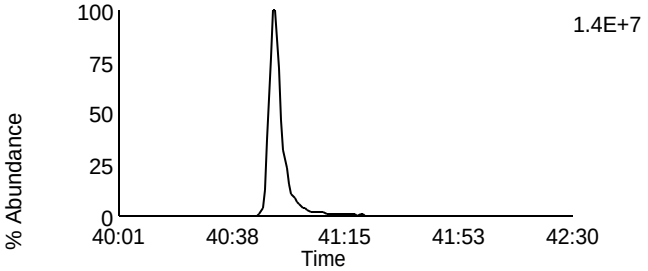
SAMP 10247063001 - SMT PASI-WI co check



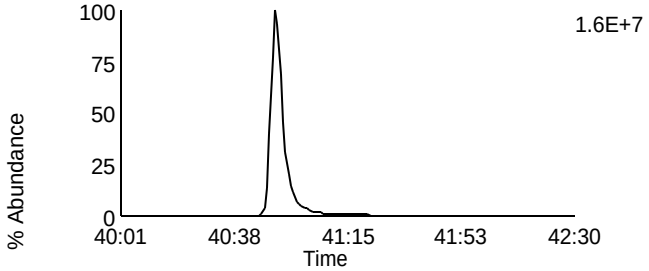
Data File: F131107B_06 G5 C11 - 469.7779
SAMP 10247063001 - SMT PASI-WI co check



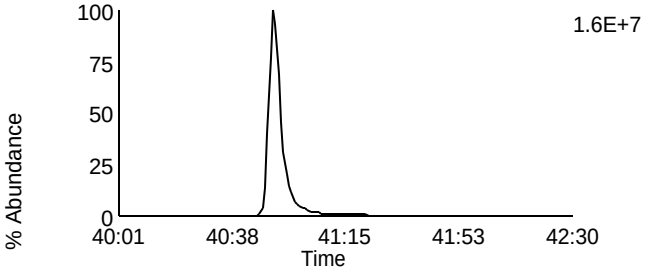
Data File: F131107B_06 G5 C11 - 469.7779
SAMP 10247063001 - SMT PASI-WI co check



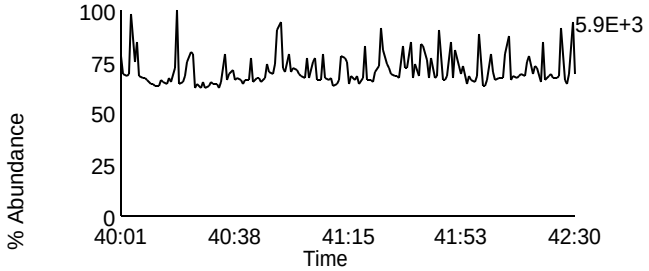
Data File: F131107B_06 G5 C12 - 471.7749
SAMP 10247063001 - SMT PASI-WI co check



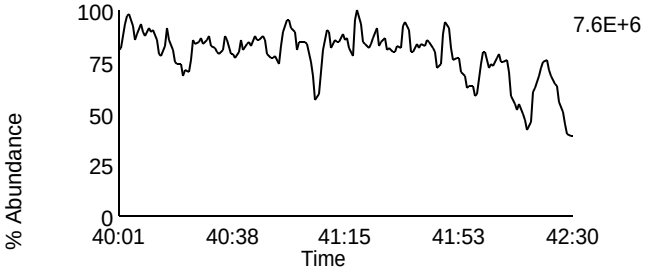
Data File: F131107B_06 G5 C12 - 471.7749
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G5 C13 - 513.6775
SAMP 10247063001 - SMT PASI-WI co check



Data File: F131107B_06 G5 C2 - 430.9728
SAMP 10247063001 - SMT PASI-WI co check

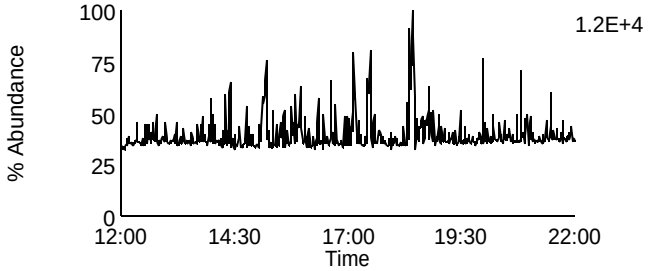


Homologue Group: Tetras

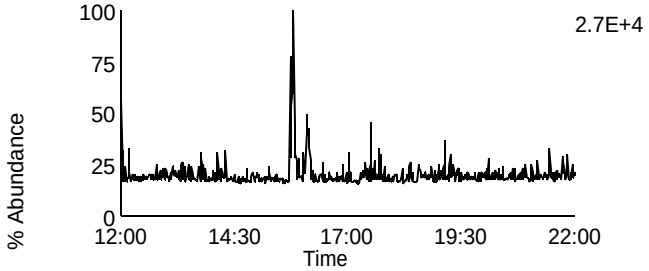
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

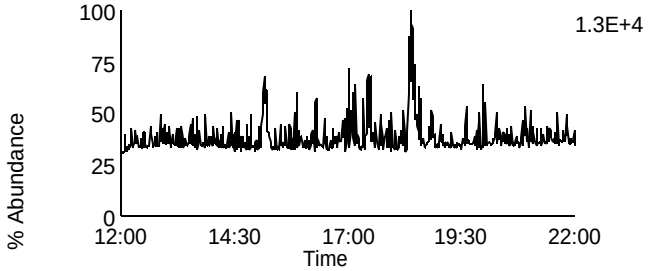
Data File: F131106A_05 G1 C1 - 303.9016
SAMP 10247063002 - BAL PASI-WI



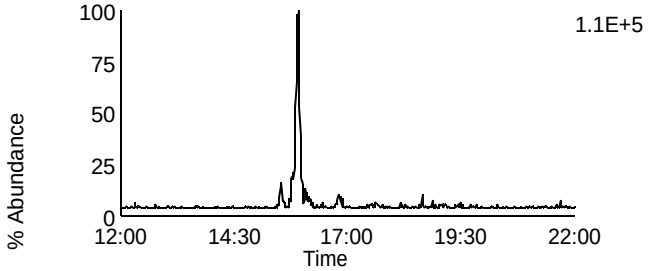
Data File: F131106A_05 G1 C7 - 319.8965
SAMP 10247063002 - BAL PASI-WI



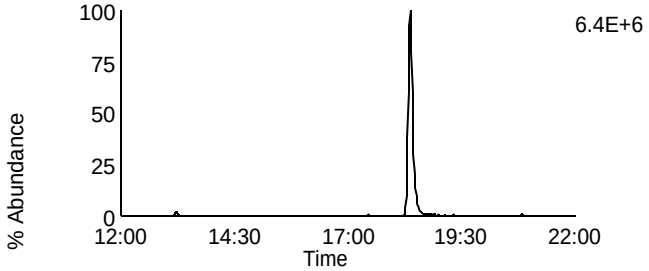
Data File: F131106A_05 G1 C2 - 305.8987
SAMP 10247063002 - BAL PASI-WI



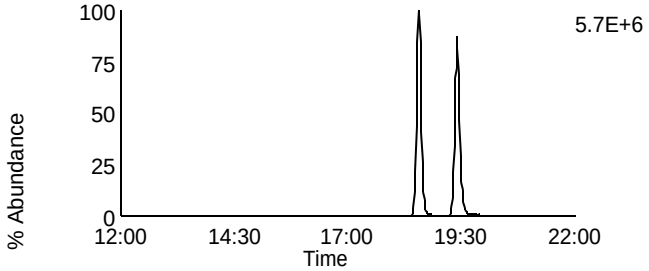
Data File: F131106A_05 G1 C8 - 321.8936
SAMP 10247063002 - BAL PASI-WI



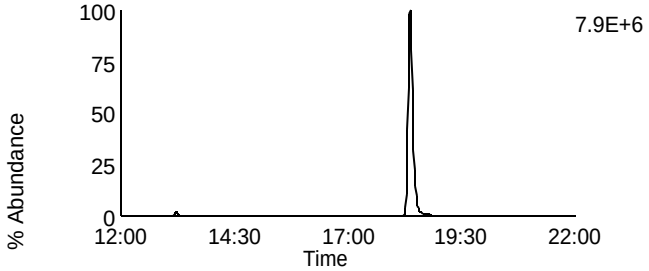
Data File: F131106A_05 G1 C3 - 315.9418
SAMP 10247063002 - BAL PASI-WI



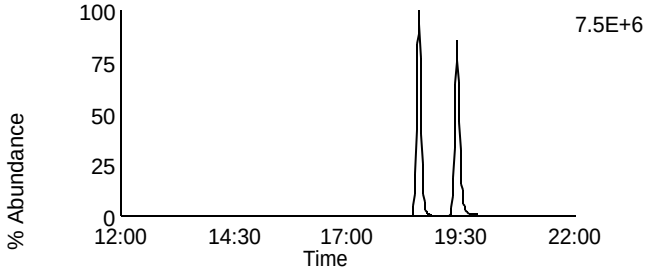
Data File: F131106A_05 G1 C10 - 331.9367
SAMP 10247063002 - BAL PASI-WI



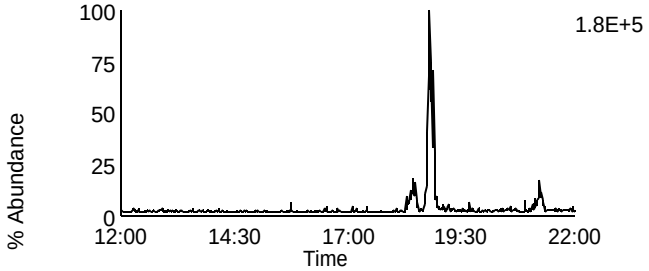
Data File: F131106A_05 G1 C4 - 317.9389
SAMP 10247063002 - BAL PASI-WI



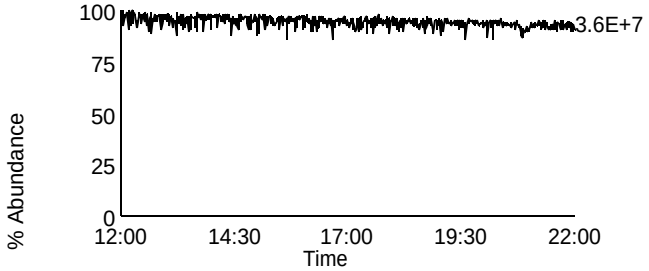
Data File: F131106A_05 G1 C11 - 333.9338
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G1 C14 - 375.8364
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G1 C5 - 318.9792
SAMP 10247063002 - BAL PASI-WI

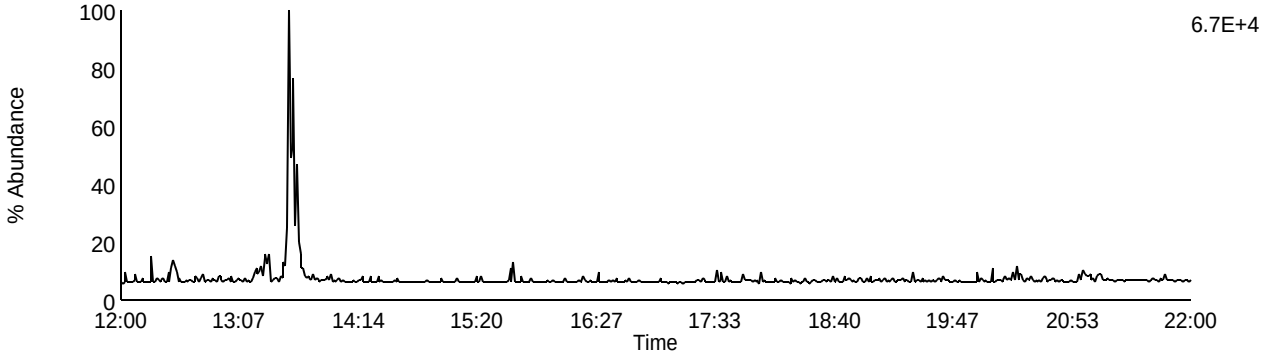


Homologue Group: Penta & Cleanup

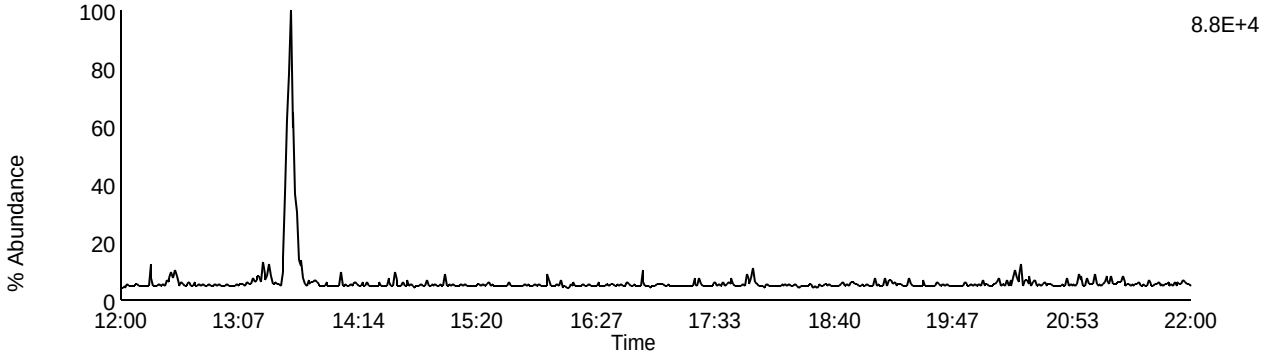
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

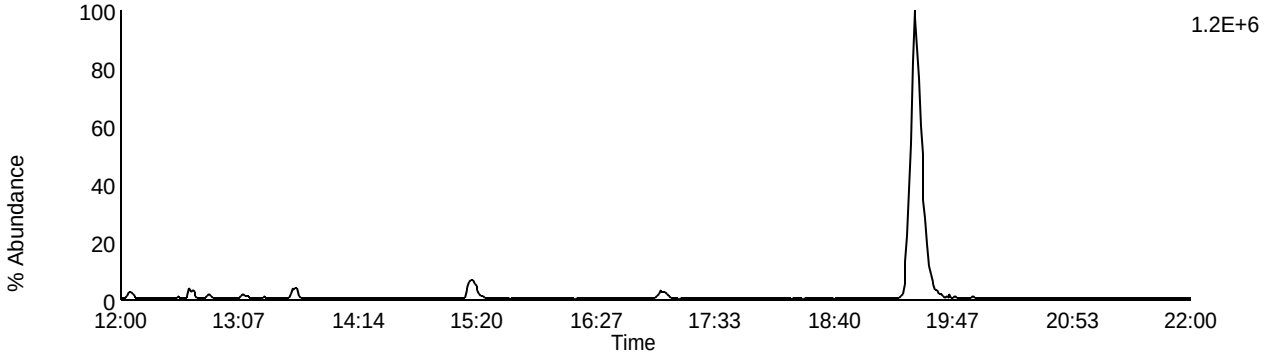
Data File: F131106A_05 G1 C12 - 339.8597
SAMP 10247063002 - BAL PASI-WI



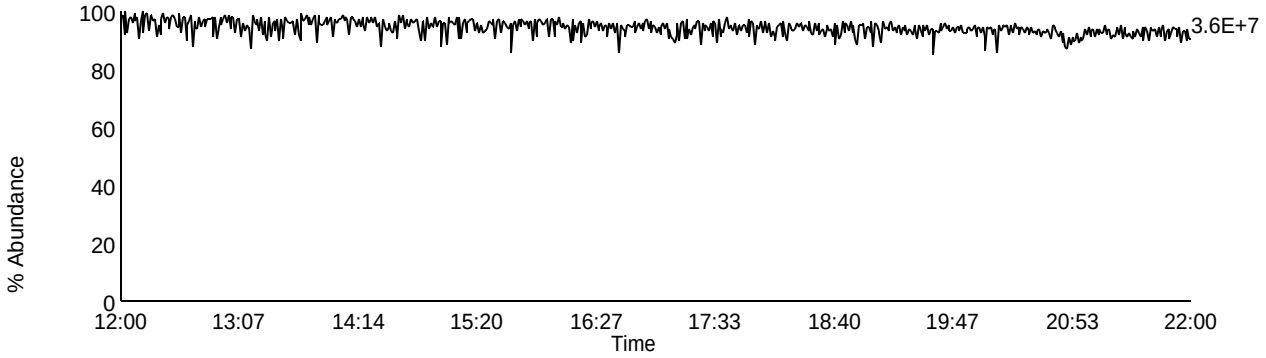
Data File: F131106A_05 G1 C13 - 341.8567
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G1 C9 - 327.8847
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G1 C5 - 318.9792
SAMP 10247063002 - BAL PASI-WI

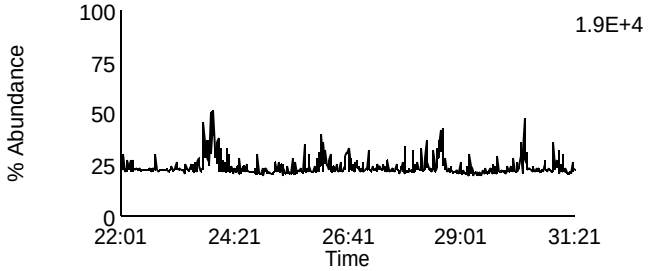


Homologue Group: Pentas

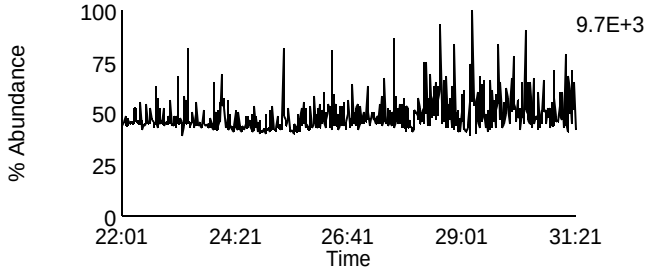
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

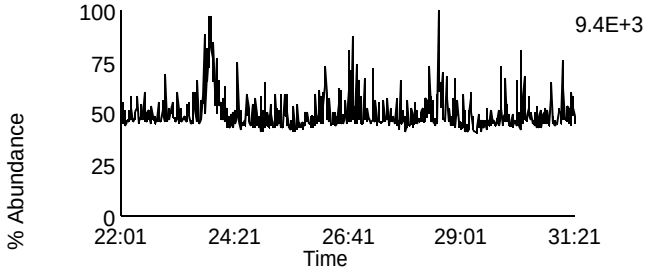
Data File: F131106A_05 G2 C1 - 339.8597
SAMP 10247063002 - BAL PASI-WI



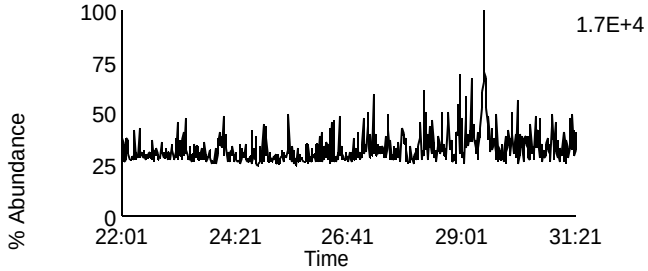
Data File: F131106A_05 G2 C4 - 353.8576
SAMP 10247063002 - BAL PASI-WI



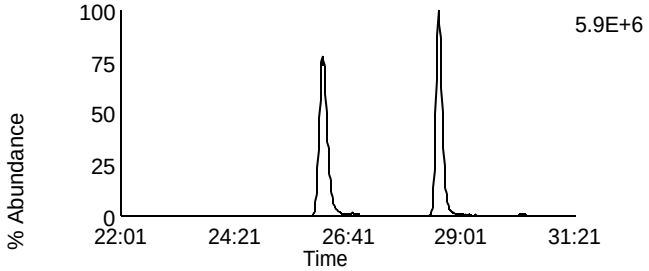
Data File: F131106A_05 G2 C2 - 341.8567
SAMP 10247063002 - BAL PASI-WI



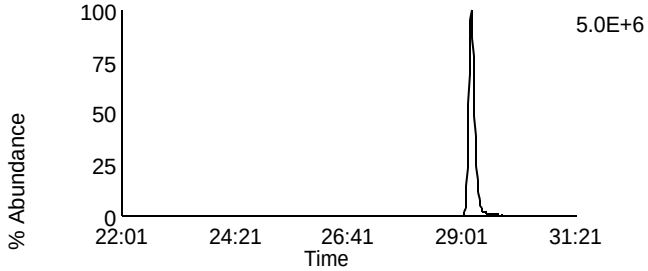
Data File: F131106A_05 G2 C8 - 355.8546
SAMP 10247063002 - BAL PASI-WI



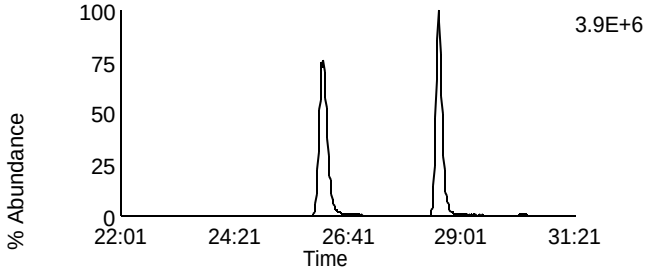
Data File: F131106A_05 G2 C3 - 351.8999
SAMP 10247063002 - BAL PASI-WI



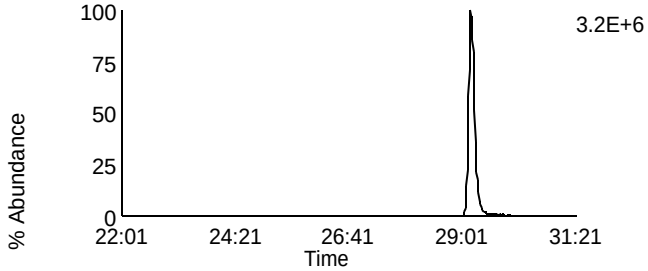
Data File: F131106A_05 G2 C10 - 367.8948
SAMP 10247063002 - BAL PASI-WI



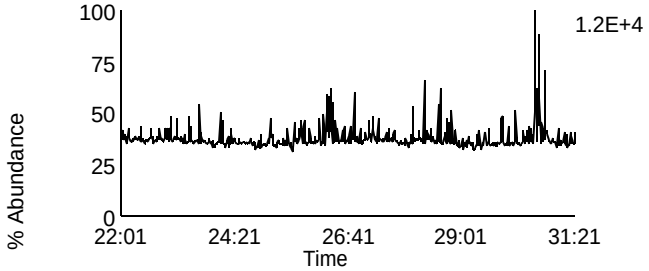
Data File: F131106A_05 G2 C5 - 353.8969
SAMP 10247063002 - BAL PASI-WI



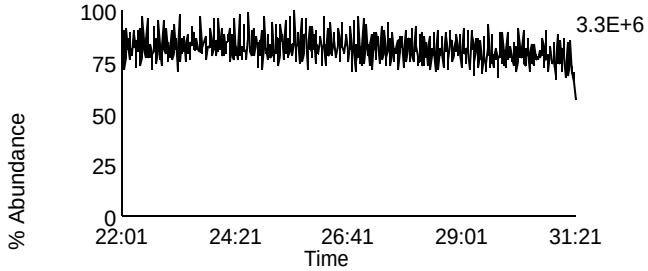
Data File: F131106A_05 G2 C11 - 369.8918
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G2 C12 - 409.7974
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G2 C6 - 354.9792
SAMP 10247063002 - BAL PASI-WI

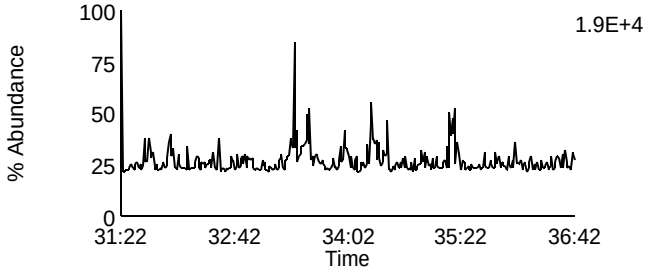


Homologue Group: Hexas

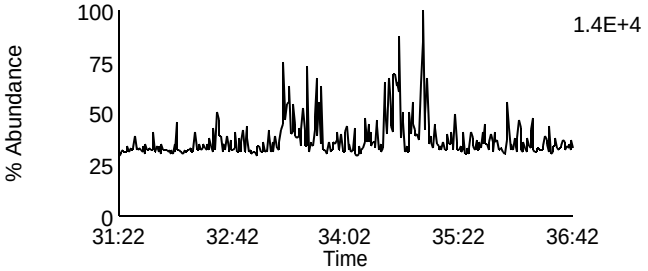
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

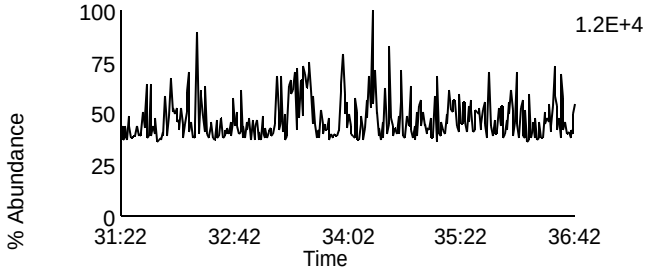
Data File: F131106A_05 G3 C1 - 373.8207
SAMP 10247063002 - BAL PASI-WI



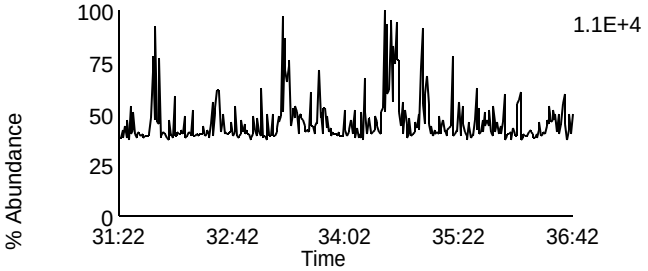
Data File: F131106A_05 G3 C7 - 389.8156
SAMP 10247063002 - BAL PASI-WI



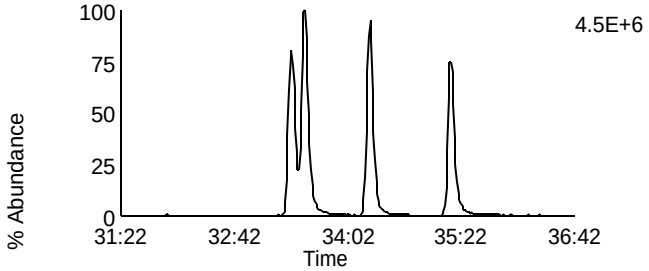
Data File: F131106A_05 G3 C2 - 375.8178
SAMP 10247063002 - BAL PASI-WI



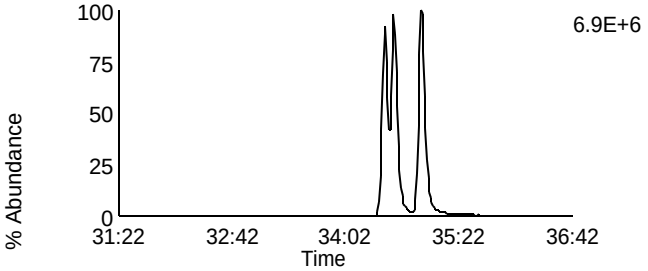
Data File: F131106A_05 G3 C8 - 391.8127
SAMP 10247063002 - BAL PASI-WI



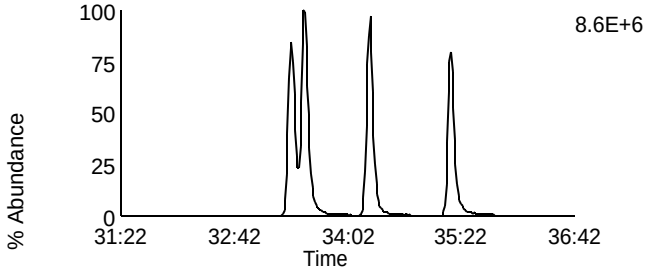
Data File: F131106A_05 G3 C5 - 383.8639
SAMP 10247063002 - BAL PASI-WI



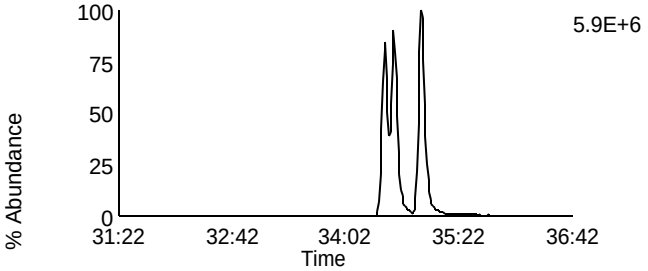
Data File: F131106A_05 G3 C9 - 401.8559
SAMP 10247063002 - BAL PASI-WI



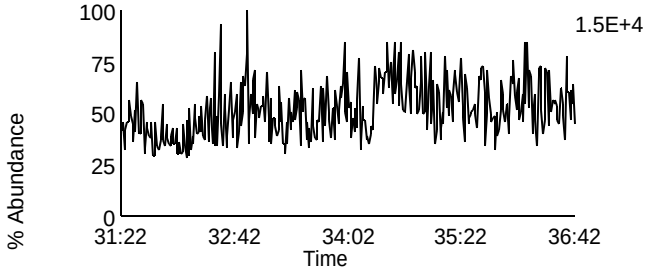
Data File: F131106A_05 G3 C6 - 385.861
SAMP 10247063002 - BAL PASI-WI



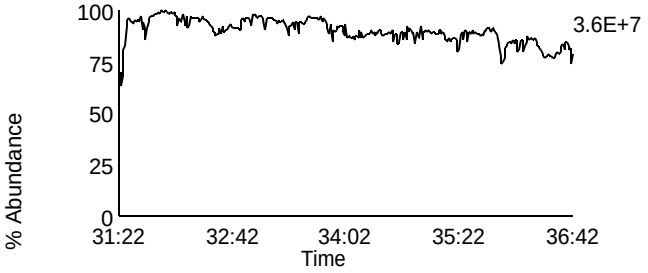
Data File: F131106A_05 G3 C10 - 403.8529
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G3 C11 - 445.7555
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G3 C3 - 380.976
SAMP 10247063002 - BAL PASI-WI

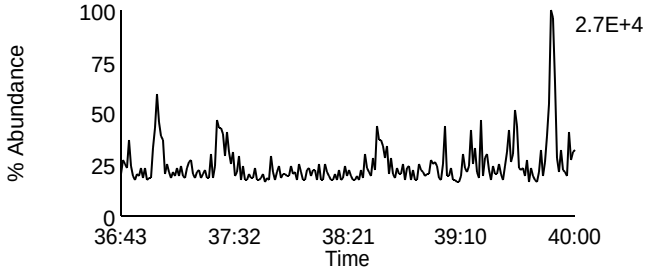


Homologue Group: Heptas

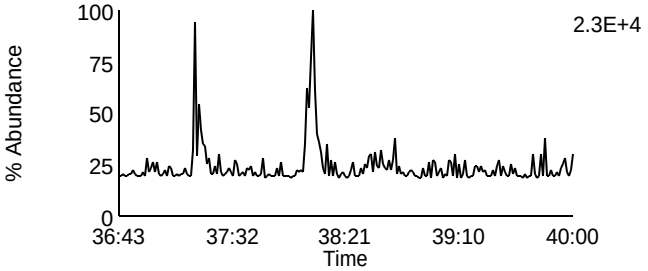
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

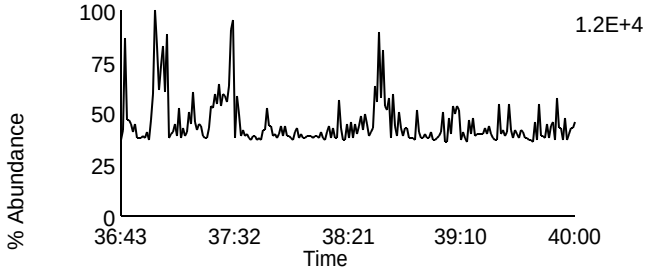
Data File: F131106A_05 G4 C3 - 407.7818
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G4 C8 - 423.7767
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G4 C4 - 409.7788
SAMP 10247063002 - BAL PASI-WI



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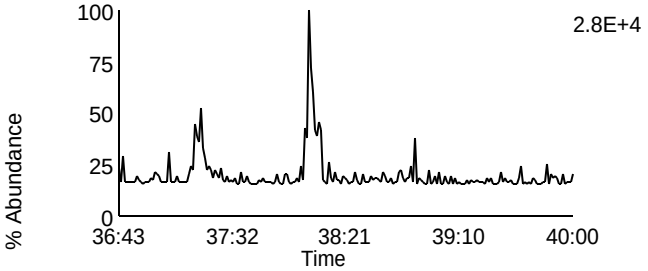
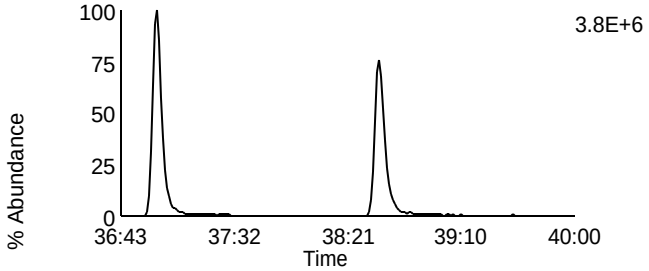
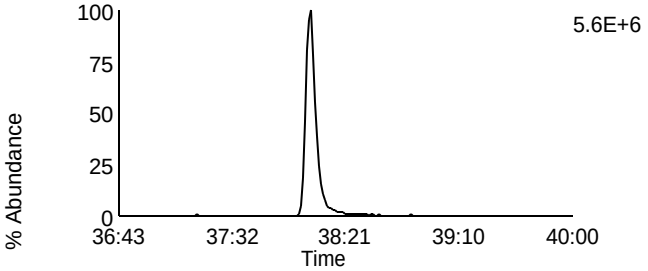
SAMP 10247063002 - BAL PASI-WI



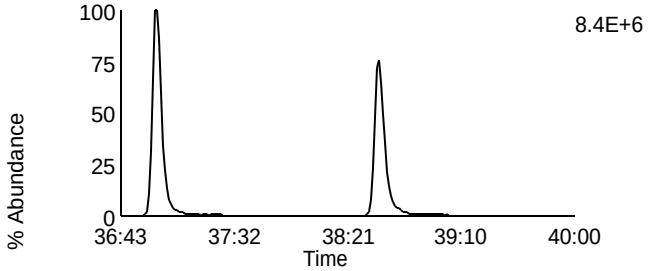
Data File: F131106A_05 G4 C6 - 417.825
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G4 C11 - 435.8169
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G4 C7 - 419.822
SAMP 10247063002 - BAL PASI-WI



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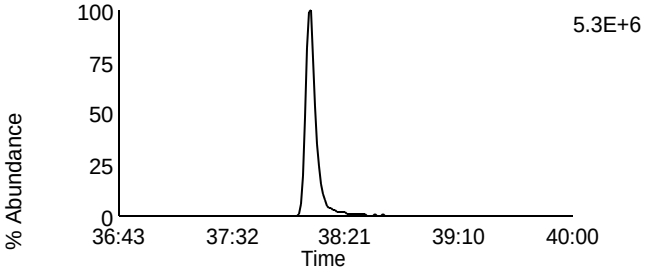
SAMP 10247063002 - BAL PASI-WI



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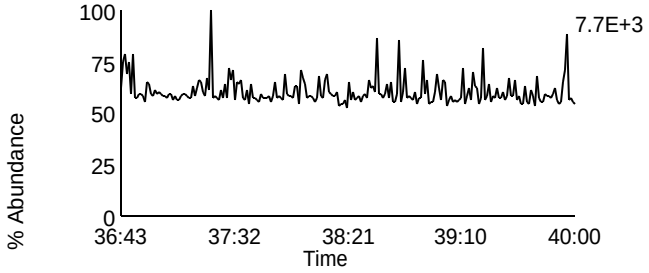
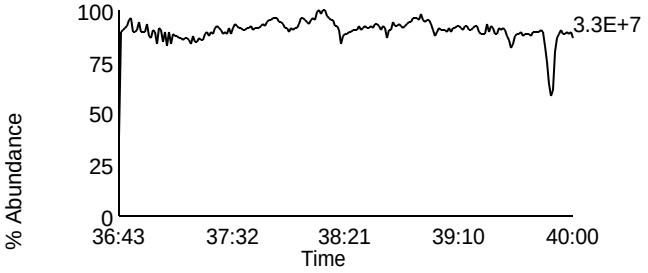
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G4 C1 - 380.976
SAMP 10247063002 - BAL PASI-WI

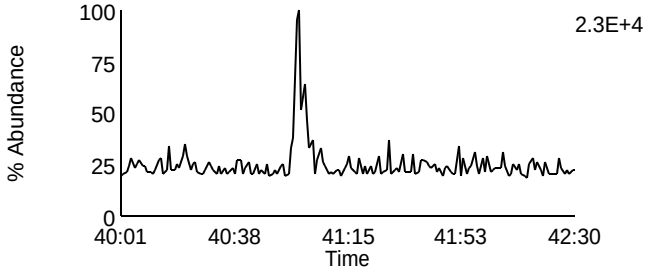


Homologue Group: Octas

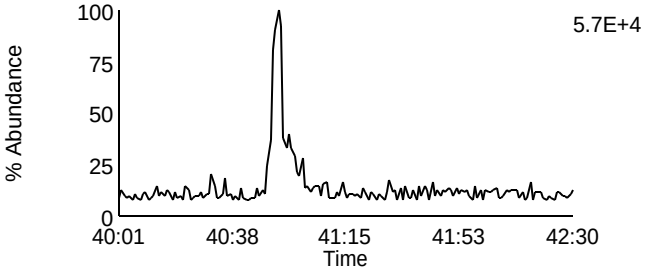
Data File Name: F131106A_05
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063002 - BAL PASI-WI

Lab Sample ID: 10247063002
Client Sample ID: MAK010O
Instrument: 10MSHR05 (F)

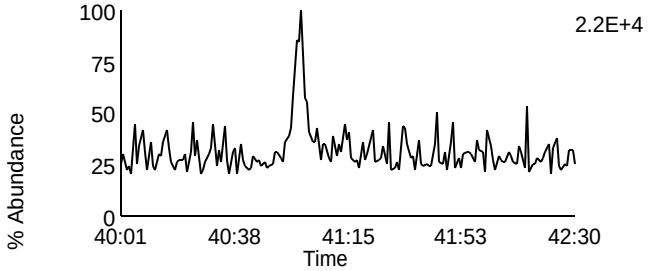
Data File: F131106A_05 G5 C4 - 441.7428
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C8 - 457.7377
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C5 - 443.7398
SAMP 10247063002 - BAL PASI-WI



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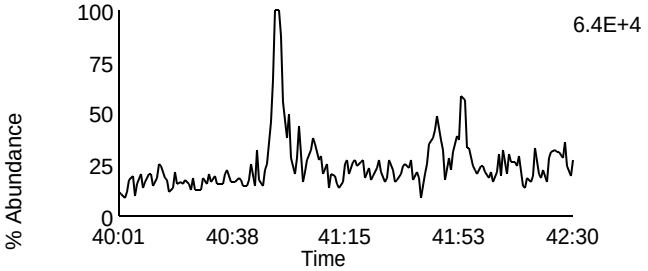
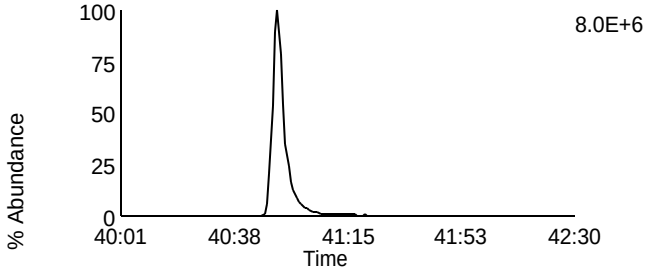
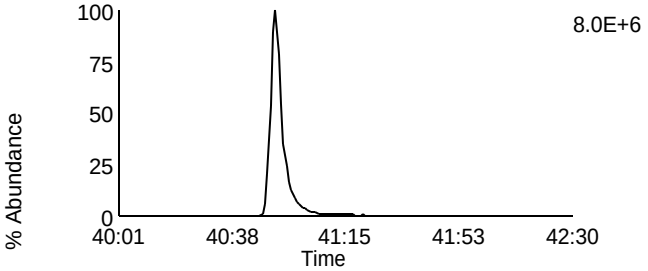
SAMP 10247063002 - BAL PASI-WI



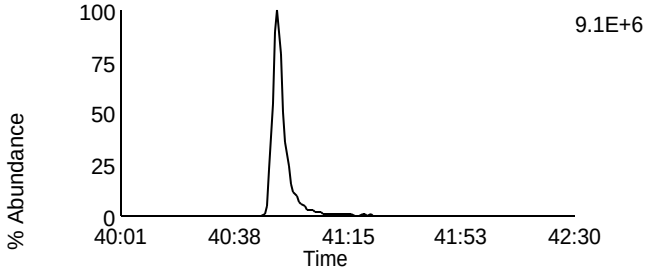
Data File: F131106A_05 G5 C11 - 469.7779
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C11 - 469.7779
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C12 - 471.7749
SAMP 10247063002 - BAL PASI-WI



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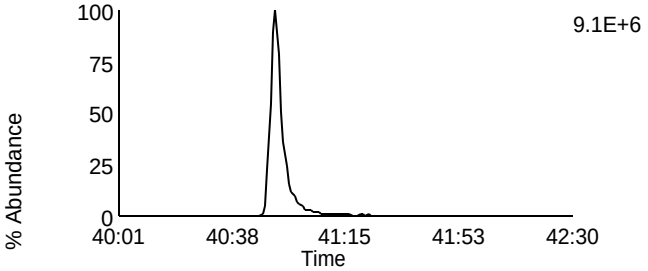
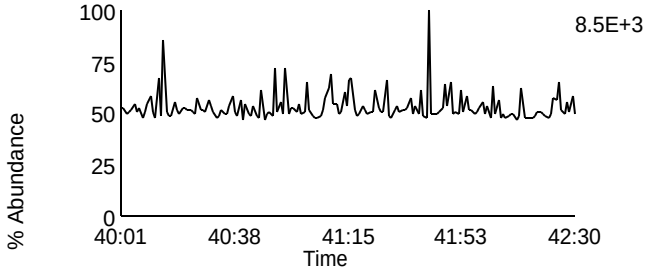
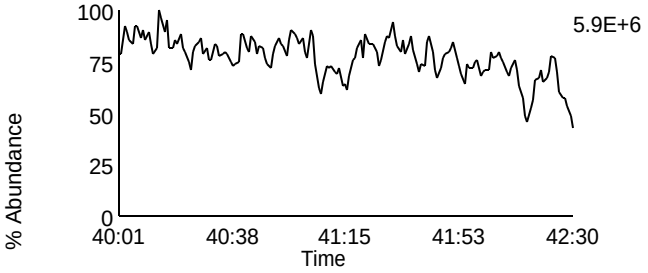
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C13 - 513.6775
SAMP 10247063002 - BAL PASI-WI



Data File: F131106A_05 G5 C2 - 430.9728
SAMP 10247063002 - BAL PASI-WI

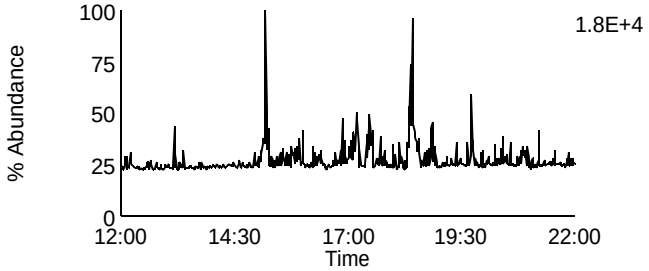


Homologue Group: Tetras

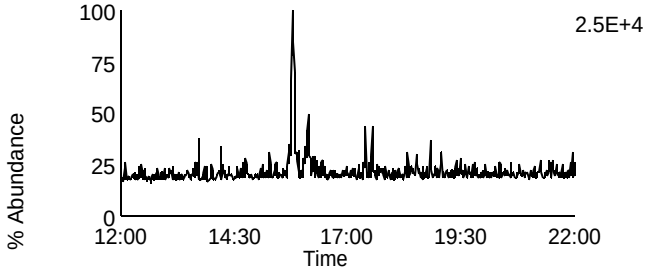
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

Data File: F131106A_06 G1 C1 - 303.9016
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G1 C7 - 319.8965
SAMP 10247063003 - BAL PASI-WI



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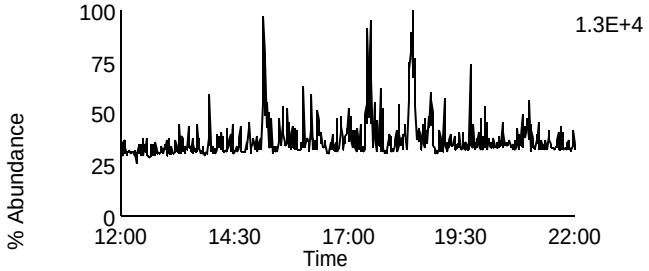
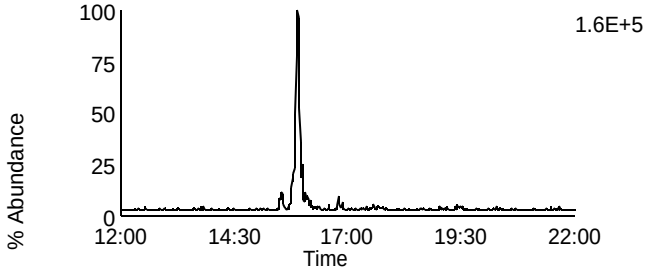
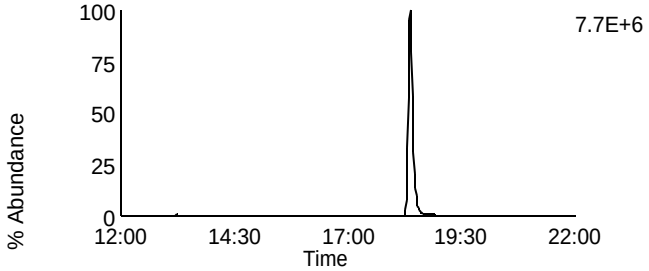
SAMP 10247063003 - BAL PASI-WI



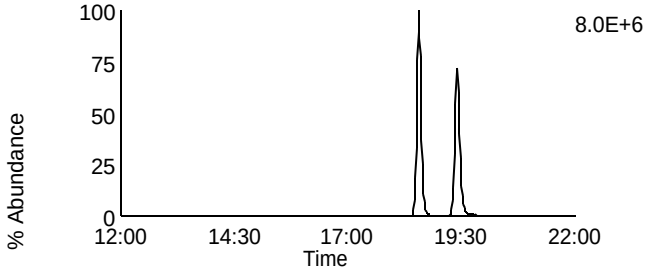
Data File: F131106A_06 G1 C8 - 321.8936
SAMP 10247063003 - BAL PASI-WI



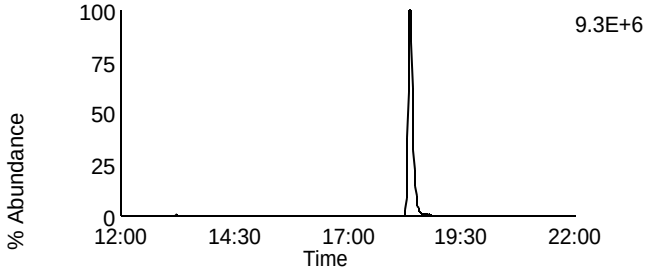
Data File: F131106A_06 G1 C3 - 315.9418
SAMP 10247063003 - BAL PASI-WI



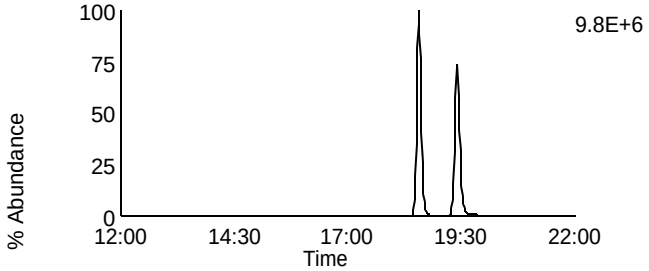
Data File: F131106A_06 G1 C10 - 331.9367
SAMP 10247063003 - BAL PASI-WI



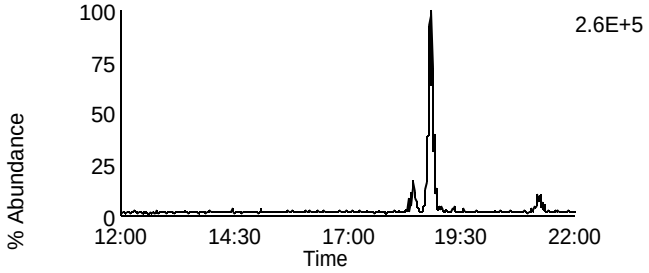
Data File: F131106A_06 G1 C4 - 317.9389
SAMP 10247063003 - BAL PASI-WI



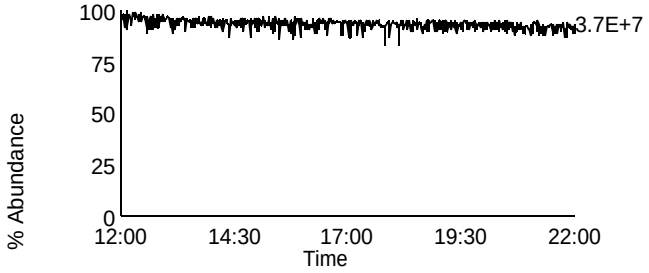
Data File: F131106A_06 G1 C11 - 333.9338
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G1 C14 - 375.8364
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G1 C5 - 318.9792
SAMP 10247063003 - BAL PASI-WI

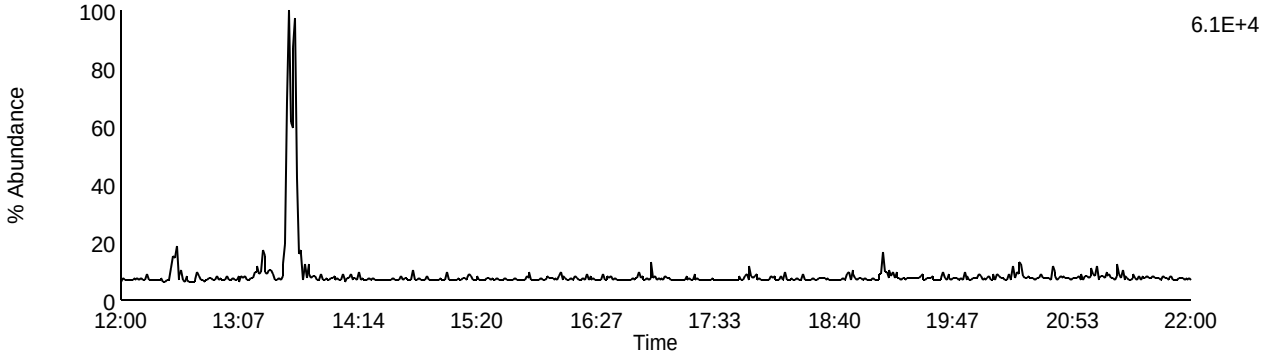


Homologue Group: Penta & Cleanup

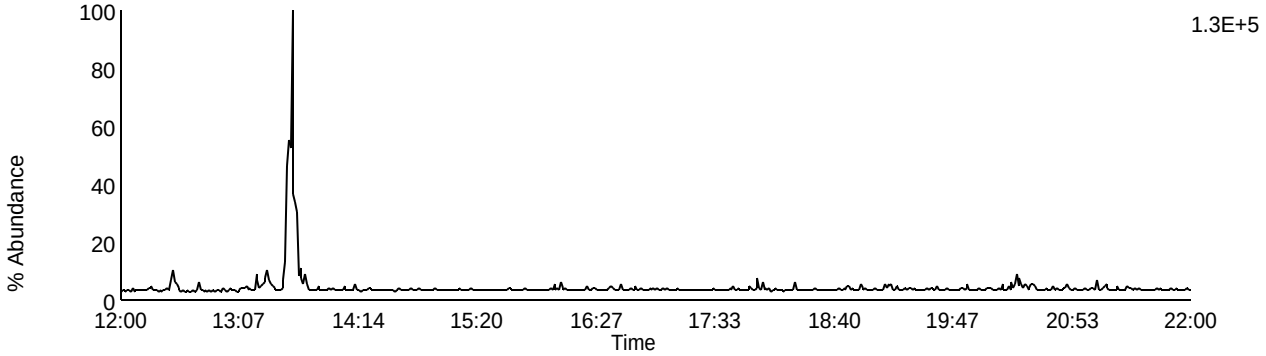
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

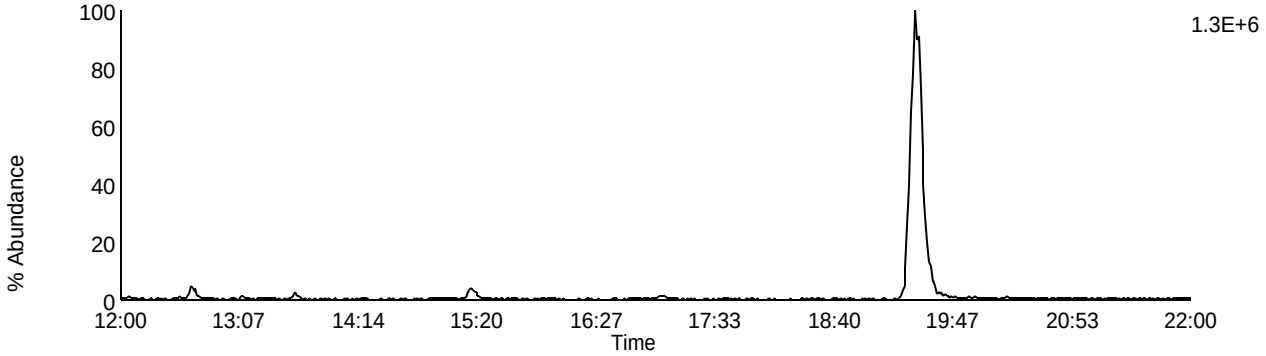
Data File: F131106A_06 G1 C12 - 339.8597
SAMP 10247063003 - BAL PASI-WI



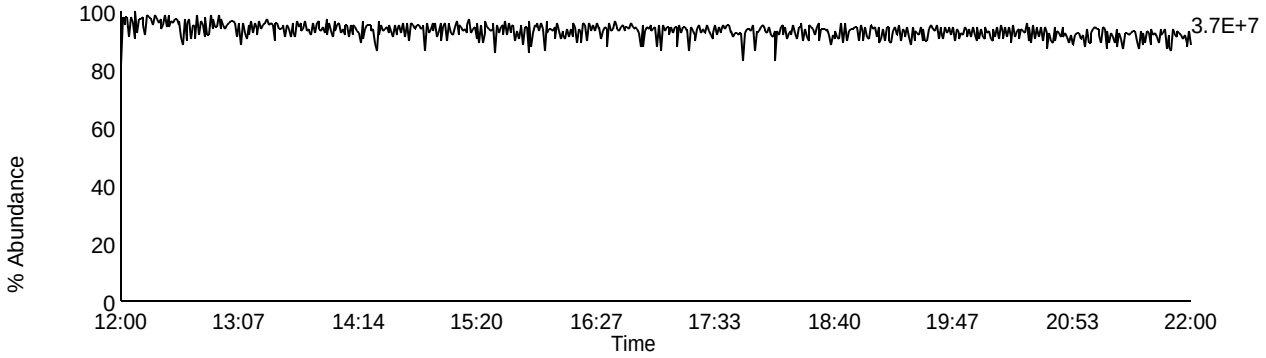
Data File: F131106A_06 G1 C13 - 341.8567
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G1 C9 - 327.8847
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G1 C5 - 318.9792
SAMP 10247063003 - BAL PASI-WI

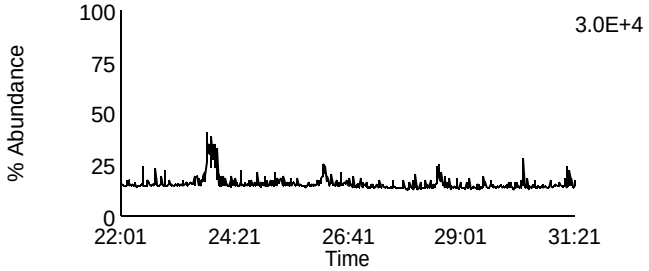


Homologue Group: Pentas

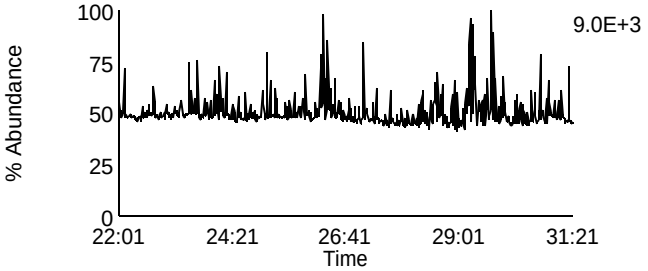
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

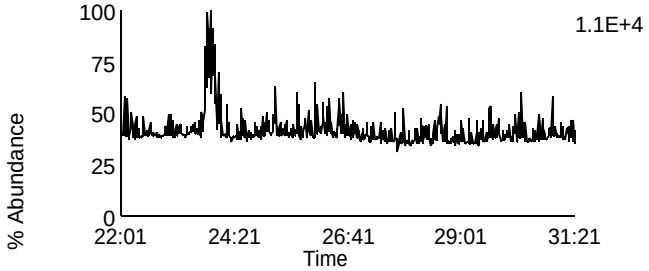
Data File: F131106A_06 G2 C1 - 339.8597
SAMP 10247063003 - BAL PASI-WI



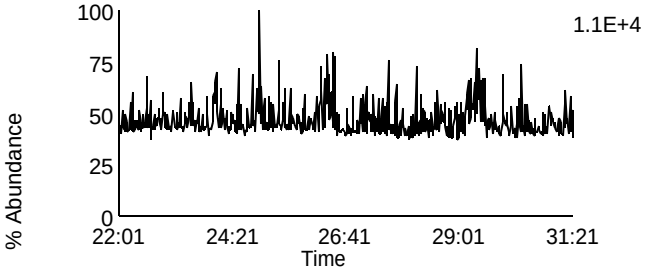
Data File: F131106A_06 G2 C4 - 353.8576
SAMP 10247063003 - BAL PASI-WI



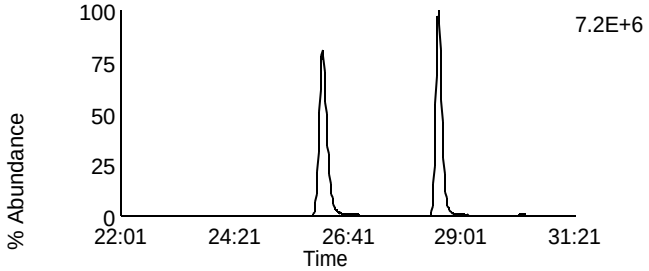
Data File: F131106A_06 G2 C2 - 341.8567
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G2 C8 - 355.8546
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G2 C3 - 351.8999
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G2 C10 - 367.8948
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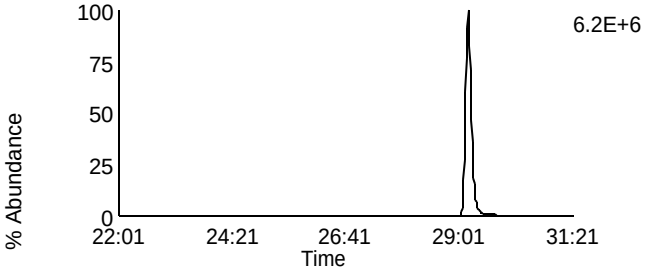
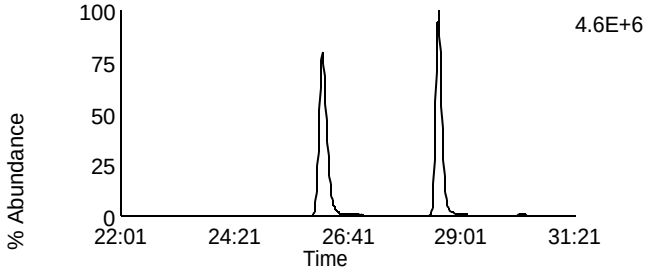


Data File: F131106A_06 G2 C5 - 353.8969
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G2 C11 - 369.8918
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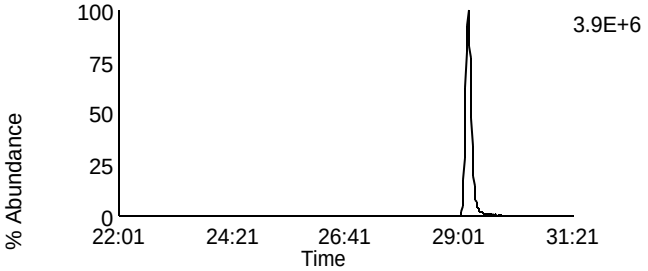
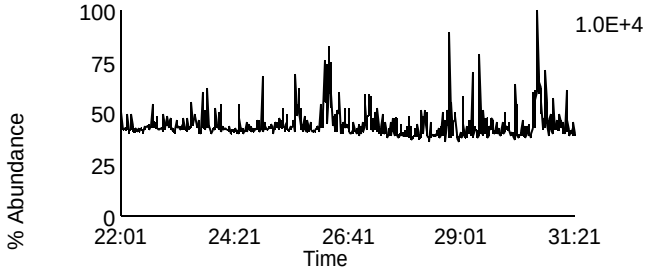
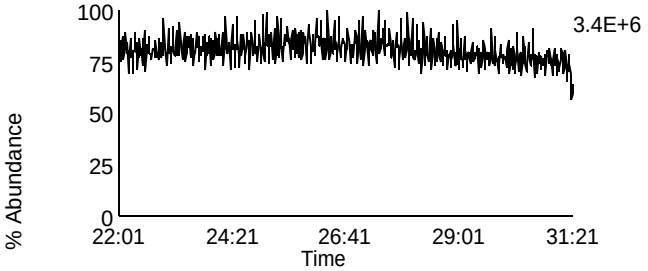


Data File: F131106A_06 G2 C12 - 409.7974
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G2 C6 - 354.9792
SAMP 10247063003 - BAL PASI-WI

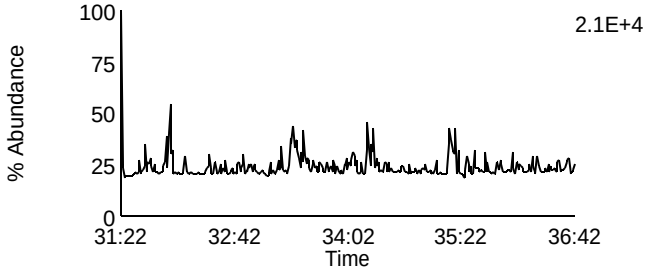


Homologue Group: Hexas

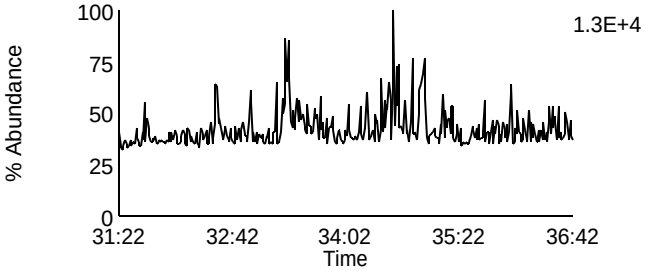
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

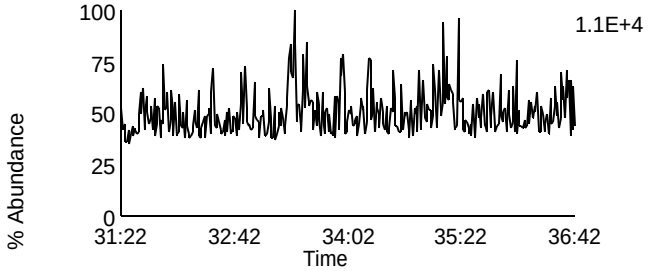
Data File: F131106A_06 G3 C1 - 373.8207
SAMP 10247063003 - BAL PASI-WI



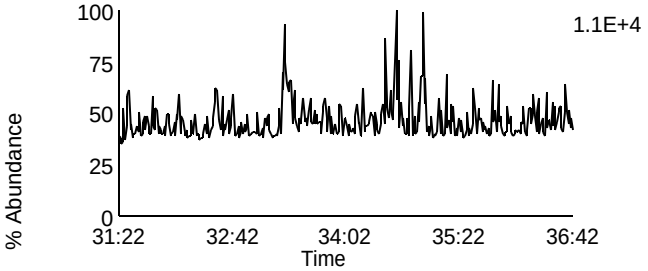
Data File: F131106A_06 G3 C7 - 389.8156
SAMP 10247063003 - BAL PASI-WI



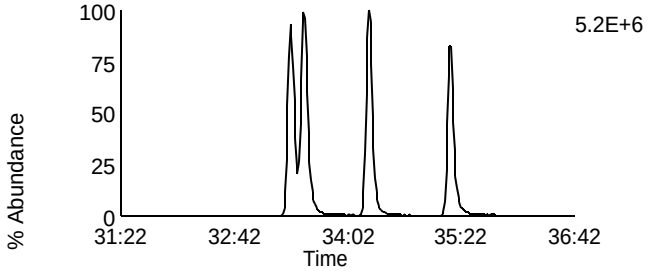
Data File: F131106A_06 G3 C2 - 375.8178
SAMP 10247063003 - BAL PASI-WI



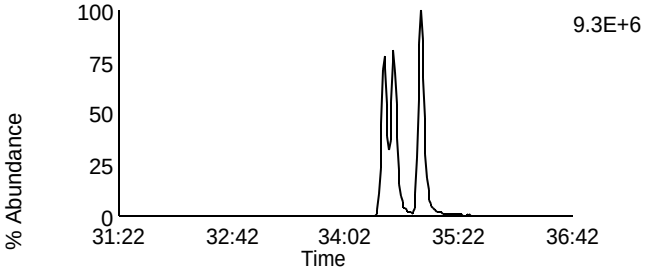
Data File: F131106A_06 G3 C8 - 391.8127
SAMP 10247063003 - BAL PASI-WI



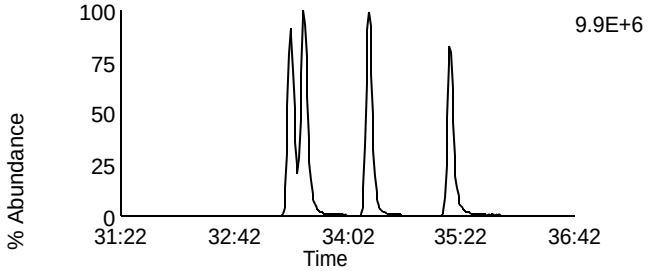
Data File: F131106A_06 G3 C5 - 383.8639
SAMP 10247063003 - BAL PASI-WI



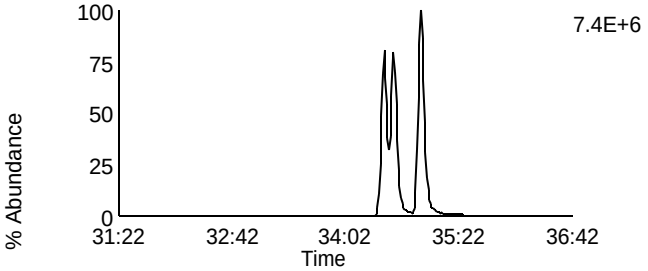
Data File: F131106A_06 G3 C9 - 401.8559
SAMP 10247063003 - BAL PASI-WI



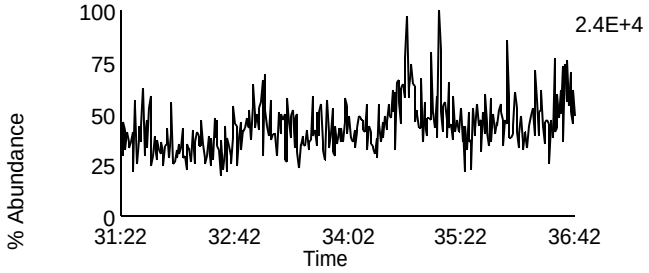
Data File: F131106A_06 G3 C6 - 385.861
SAMP 10247063003 - BAL PASI-WI



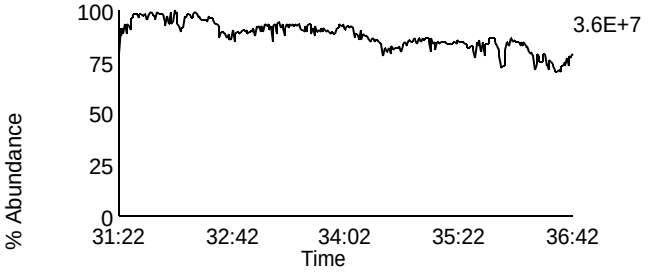
Data File: F131106A_06 G3 C10 - 403.8529
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G3 C11 - 445.7555
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G3 C3 - 380.976
SAMP 10247063003 - BAL PASI-WI

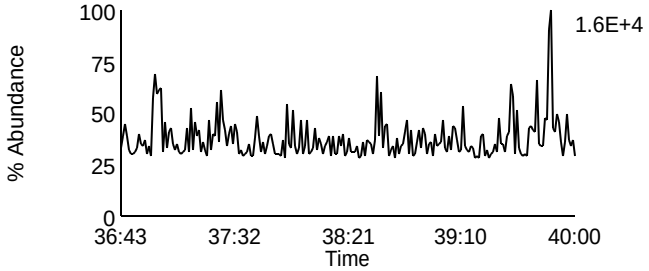


Homologue Group: Heptas

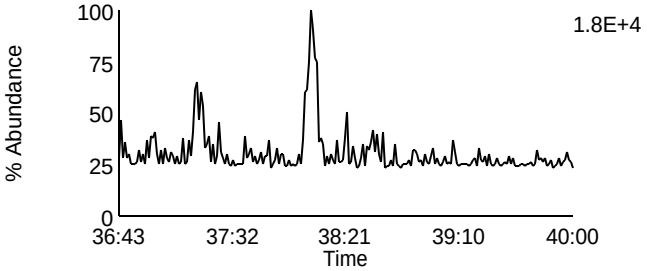
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

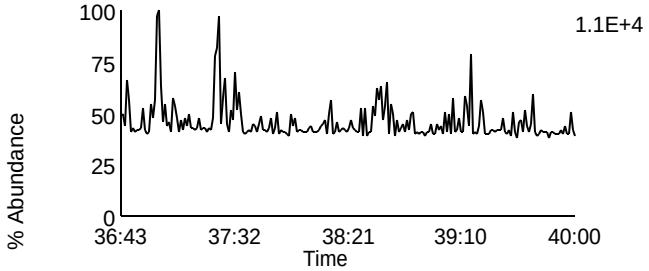
Data File: F131106A_06 G4 C3 - 407.7818
SAMP 10247063003 - BAL PASI-WI



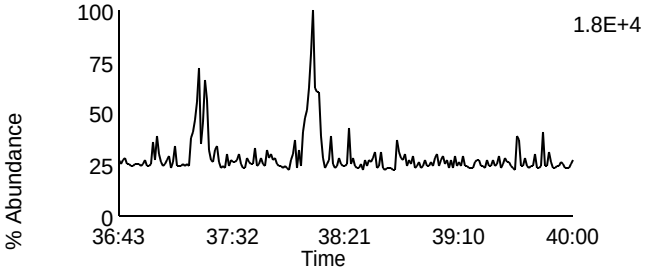
Data File: F131106A_06 G4 C8 - 423.7767
SAMP 10247063003 - BAL PASI-WI



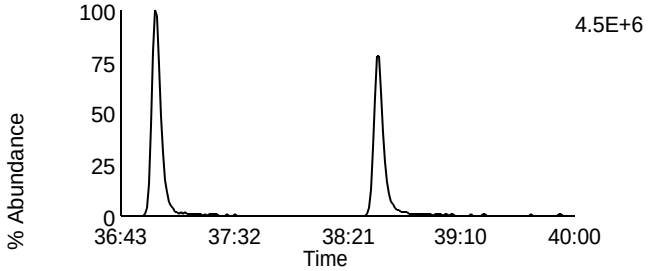
Data File: F131106A_06 G4 C4 - 409.7788
SAMP 10247063003 - BAL PASI-WI



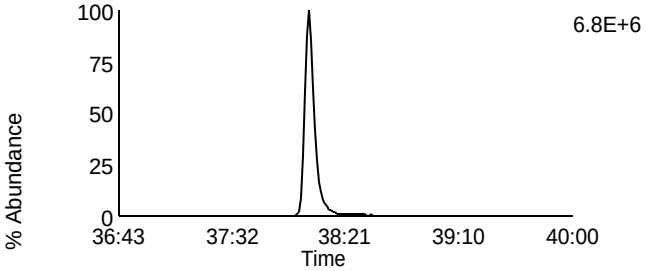
Data File: F131106A_06 G4 C9 - 425.7737
SAMP 10247063003 - BAL PASI-WI



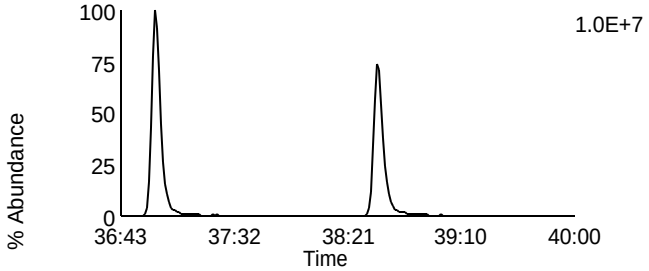
Data File: F131106A_06 G4 C6 - 417.825
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G4 C11 - 435.8169
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G4 C7 - 419.822
SAMP 10247063003 - BAL PASI-WI



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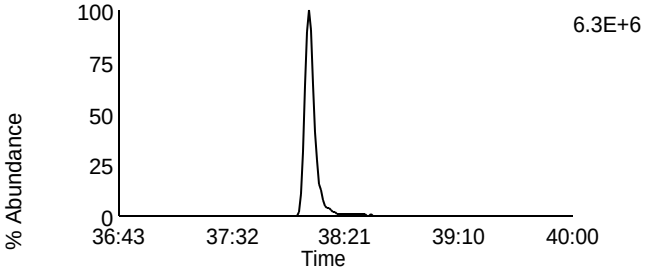
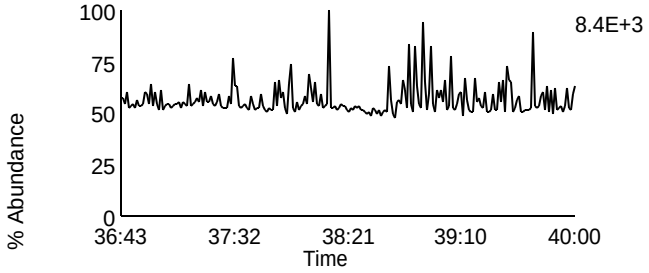
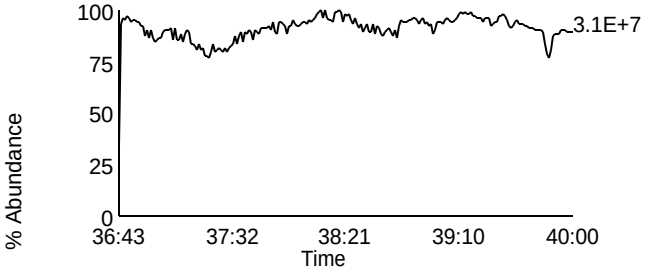
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G4 C13 - 479.7165
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G4 C1 - 380.976
SAMP 10247063003 - BAL PASI-WI

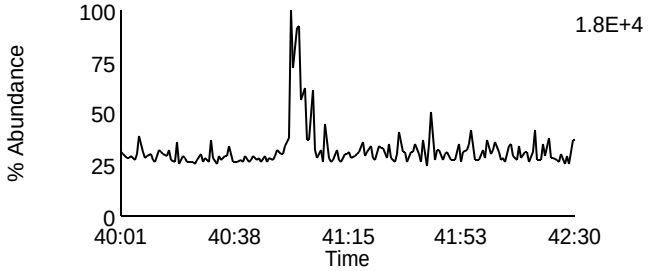


Homologue Group: Octas

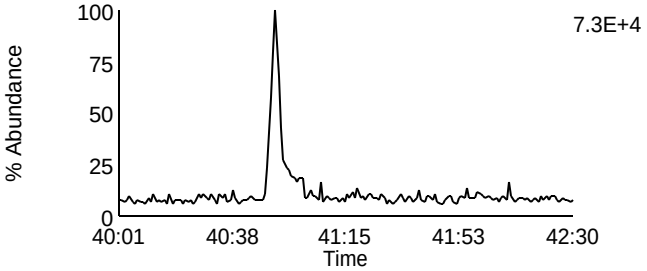
Data File Name: F131106A_06
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063003 - BAL PASI-WI

Lab Sample ID: 10247063003
Client Sample ID: MAK011O
Instrument: 10MSHR05 (F)

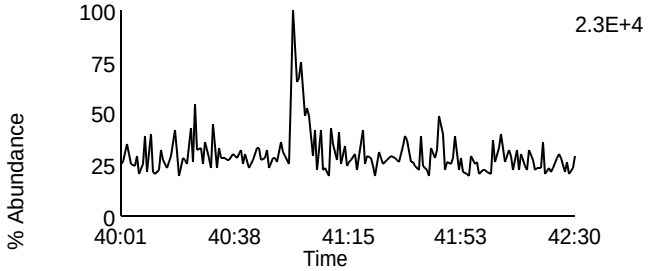
Data File: F131106A_06 G5 C4 - 441.7428
SAMP 10247063003 - BAL PASI-WI



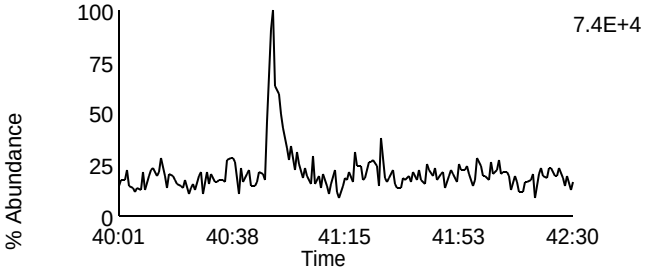
Data File: F131106A_06 G5 C8 - 457.7377
SAMP 10247063003 - BAL PASI-WI



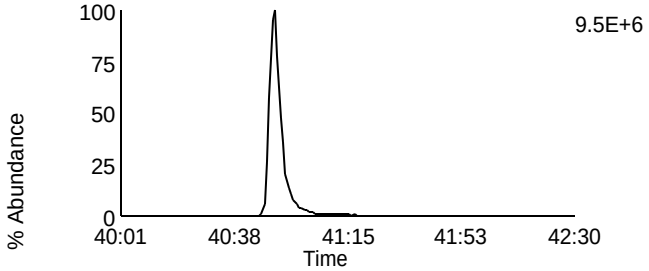
Data File: F131106A_06 G5 C5 - 443.7398
SAMP 10247063003 - BAL PASI-WI



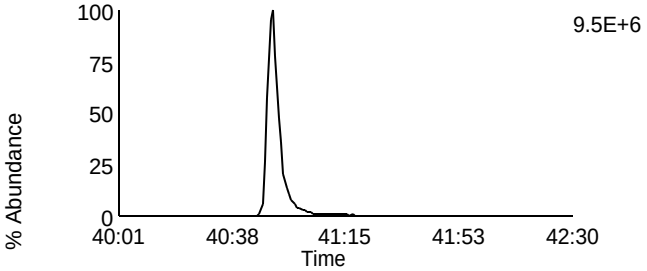
Data File: F131106A_06 G5 C9 - 459.7347
SAMP 10247063003 - BAL PASI-WI



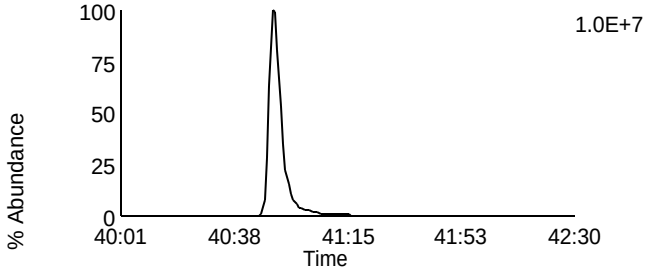
Data File: F131106A_06 G5 C11 - 469.7779
SAMP 10247063003 - BAL PASI-WI



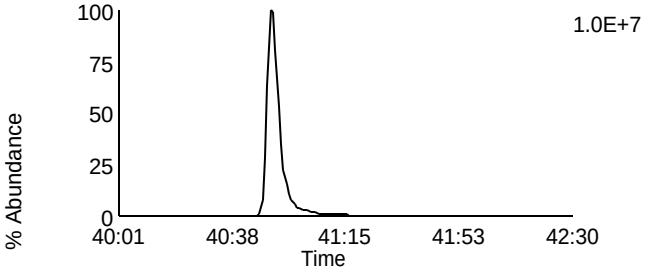
Data File: F131106A_06 G5 C11 - 469.7779
SAMP 10247063003 - BAL PASI-WI



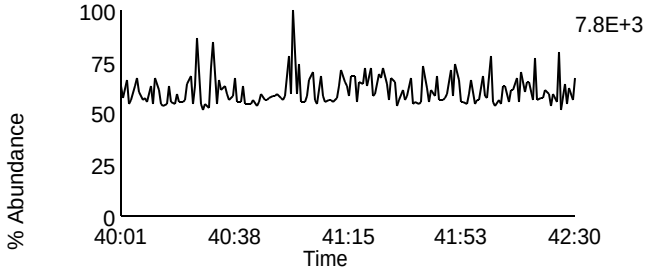
Data File: F131106A_06 G5 C12 - 471.7749
SAMP 10247063003 - BAL PASI-WI



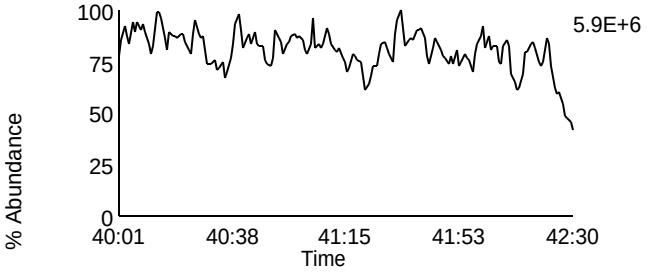
Data File: F131106A_06 G5 C12 - 471.7749
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G5 C13 - 513.6775
SAMP 10247063003 - BAL PASI-WI



Data File: F131106A_06 G5 C2 - 430.9728
SAMP 10247063003 - BAL PASI-WI

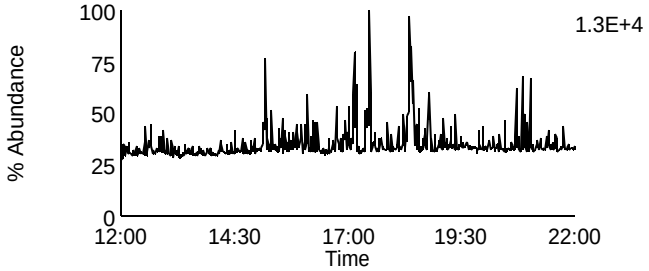


Homologue Group: Tetras

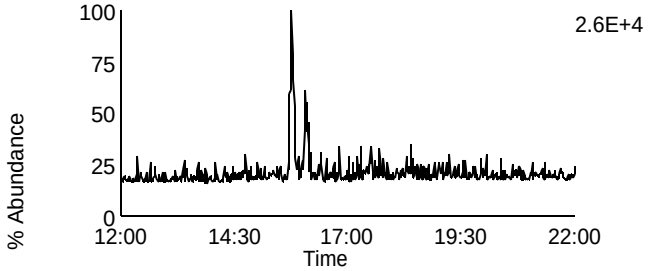
Data File Name: F131106A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063004 - BAL PASI-WI

Lab Sample ID: 10247063004
Client Sample ID: MAK012O
Instrument: 10MSHR05 (F)

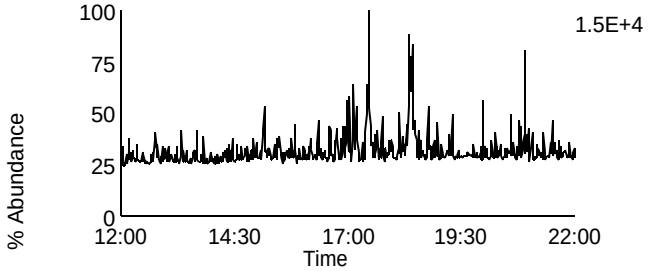
Data File: F131106A_07 G1 C1 - 303.9016
SAMP 10247063004 - BAL PASI-WI



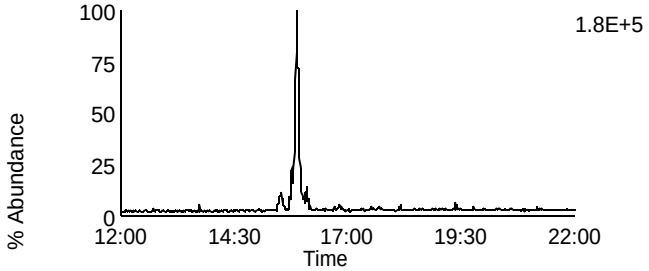
Data File: F131106A_07 G1 C7 - 319.8965
SAMP 10247063004 - BAL PASI-WI



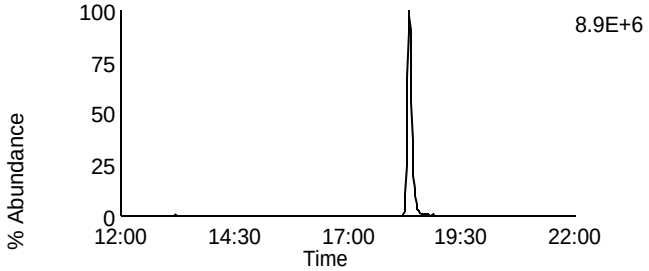
Data File: F131106A_07 G1 C2 - 305.8987
SAMP 10247063004 - BAL PASI-WI



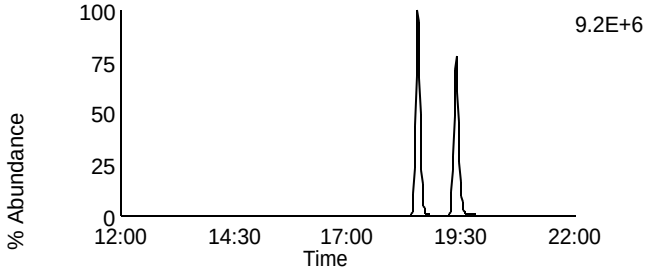
Data File: F131106A_07 G1 C8 - 321.8936
SAMP 10247063004 - BAL PASI-WI



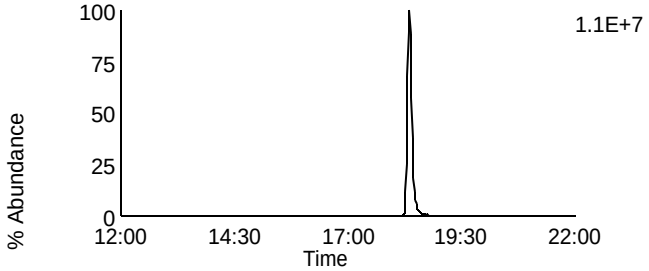
Data File: F131106A_07 G1 C3 - 315.9418
SAMP 10247063004 - BAL PASI-WI



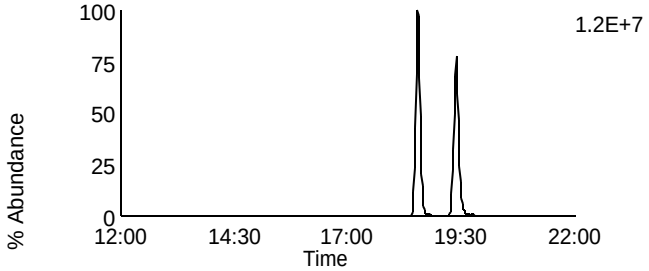
Data File: F131106A_07 G1 C10 - 331.9367
SAMP 10247063004 - BAL PASI-WI



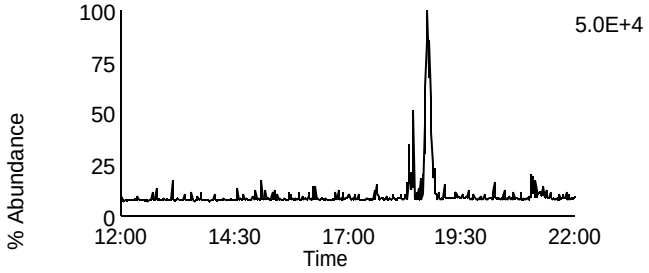
Data File: F131106A_07 G1 C4 - 317.9389
SAMP 10247063004 - BAL PASI-WI



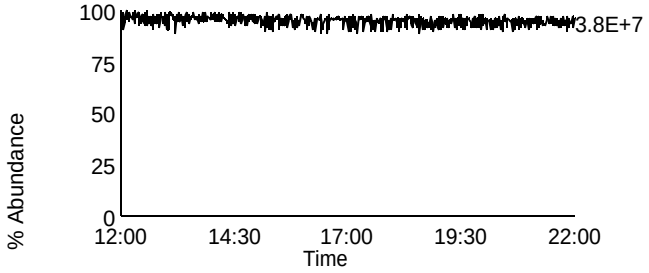
Data File: F131106A_07 G1 C11 - 333.9338
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G1 C14 - 375.8364
SAMP 10247063004 - BAL PASI-WI



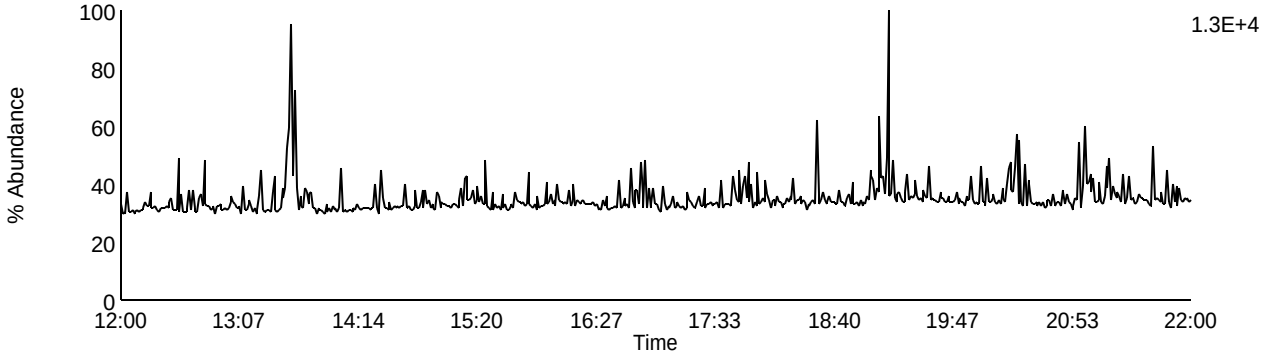
Data File: F131106A_07 G1 C5 - 318.9792
SAMP 10247063004 - BAL PASI-WI



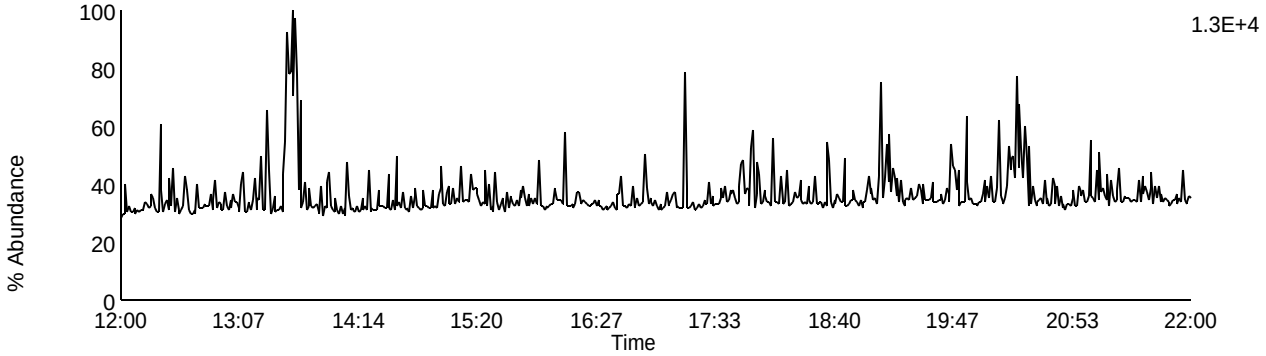
Homologue Group: Penta & Cleanup

Data File Name: F131106A_07	Lab Sample ID: 10247063004
Date Acquired: 11/7/2013	Client Sample ID: MAK012O
Sample Description: SAMP 10247063004 - BAL PASI-WI	Instrument: 10MSHR05 (F)

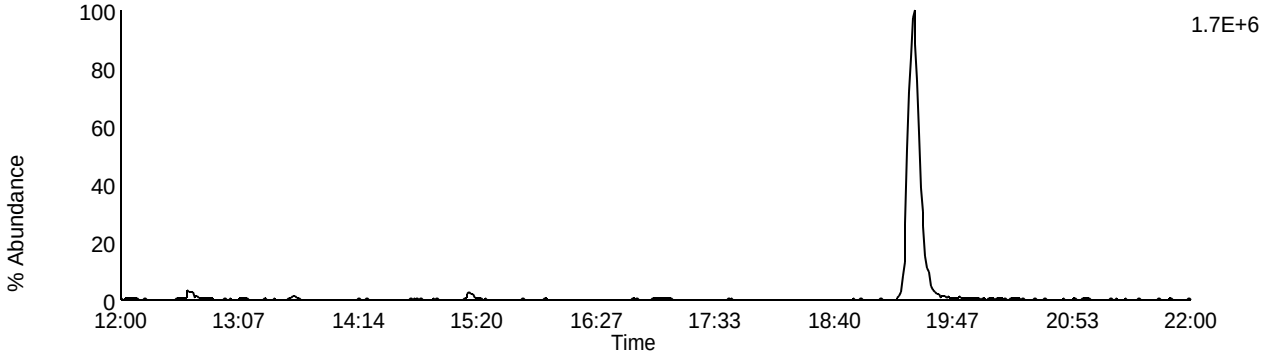
Data File: F131106A_07 G1 C12 - 339.8597
SAMP 10247063004 - BAL PASI-WI



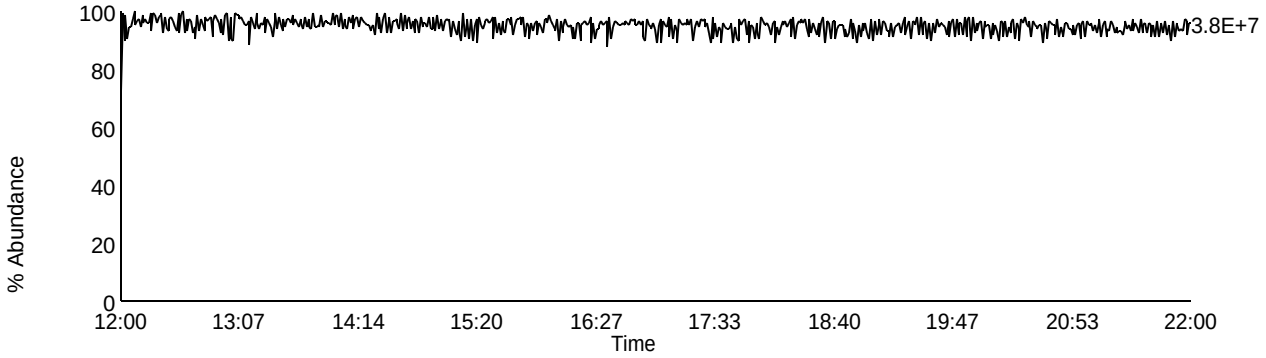
Data File: F131106A_07 G1 C13 - 341.8567
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G1 C9 - 327.8847
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G1 C5 - 318.9792
SAMP 10247063004 - BAL PASI-WI

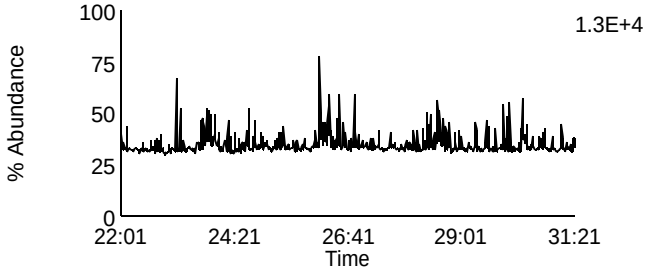


Homologue Group: Pentas

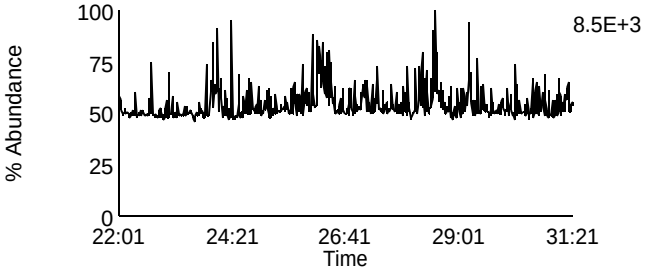
Data File Name: F131106A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063004 - BAL PASI-WI

Lab Sample ID: 10247063004
Client Sample ID: MAK012O
Instrument: 10MSHR05 (F)

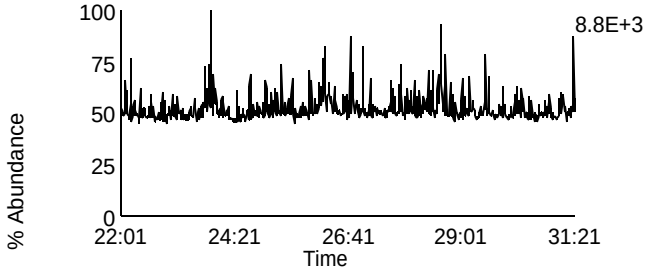
Data File: F131106A_07 G2 C1 - 339.8597
SAMP 10247063004 - BAL PASI-WI



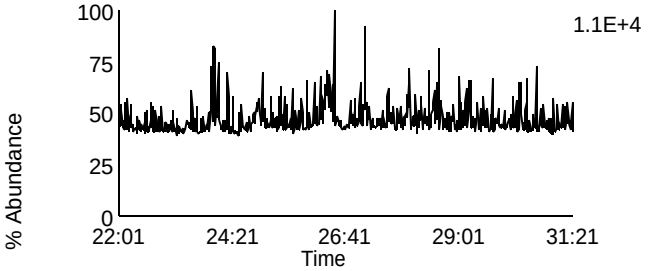
Data File: F131106A_07 G2 C4 - 353.8576
SAMP 10247063004 - BAL PASI-WI



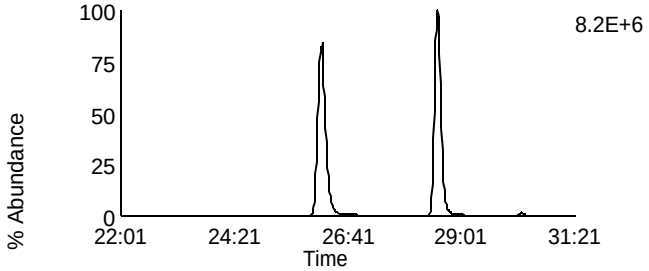
Data File: F131106A_07 G2 C2 - 341.8567
SAMP 10247063004 - BAL PASI-WI



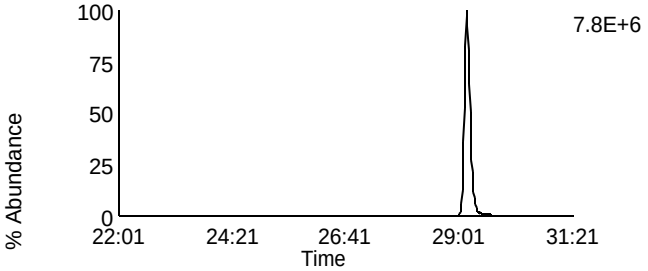
Data File: F131106A_07 G2 C8 - 355.8546
SAMP 10247063004 - BAL PASI-WI



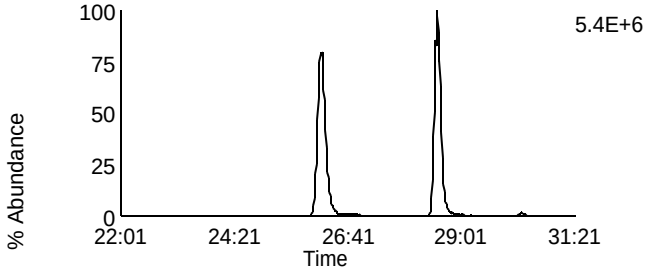
Data File: F131106A_07 G2 C3 - 351.8999
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G2 C10 - 367.8948
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G2 C5 - 353.8969
SAMP 10247063004 - BAL PASI-WI



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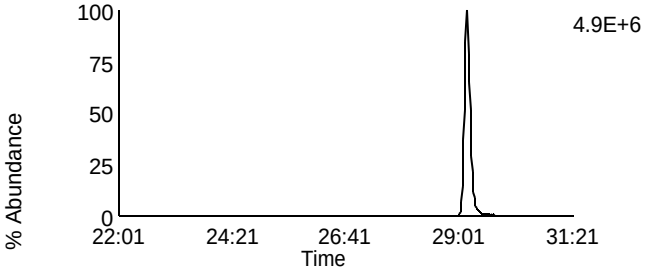
SAMP 10247063004 - BAL PASI-WI



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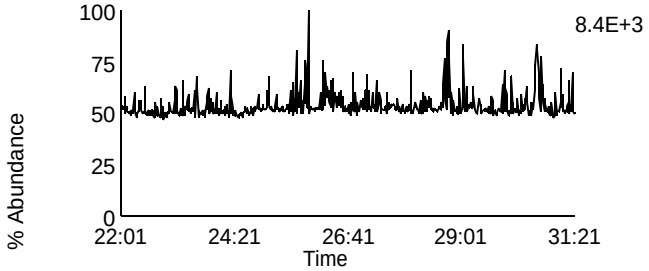
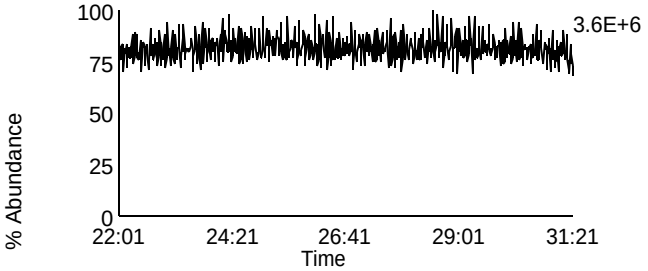
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G2 C6 - 354.9792
SAMP 10247063004 - BAL PASI-WI

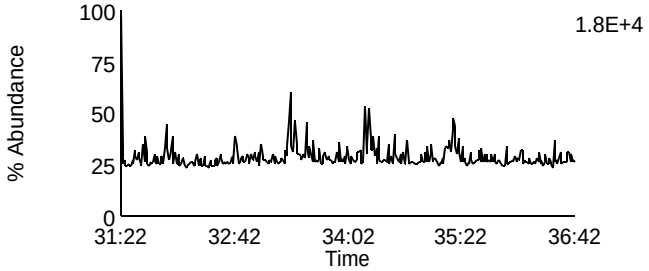


Homologue Group: Hexas

Data File Name: F131106A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063004 - BAL PASI-WI

Lab Sample ID: 10247063004
Client Sample ID: MAK012O
Instrument: 10MSHR05 (F)

Data File: F131106A_07 G3 C1 - 373.8207
SAMP 10247063004 - BAL PASI-WI



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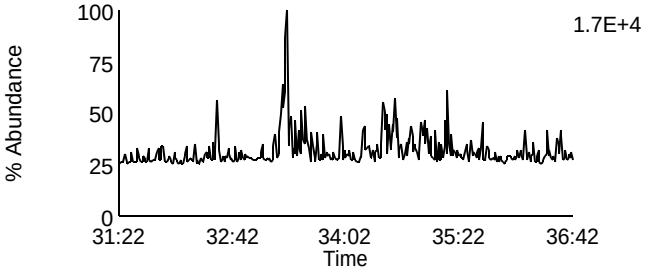
SAMP 10247063004 - BAL PASI-WI



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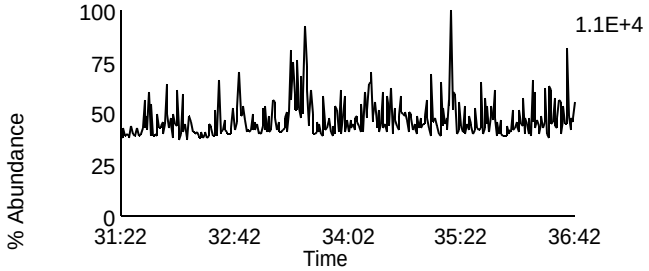
SAMP 10247063004 - BAL PASI-WI



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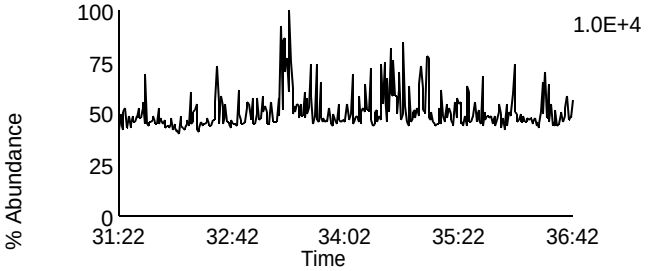
SAMP 10247063004 - BAL PASI-WI



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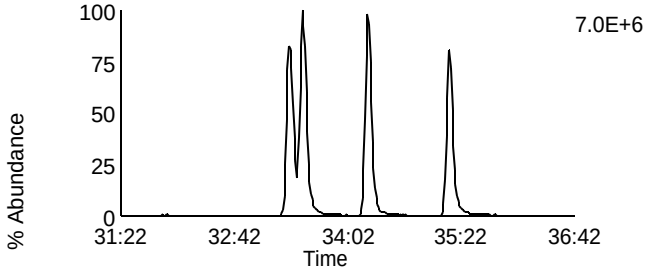
SAMP 10247063004 - BAL PASI-WI



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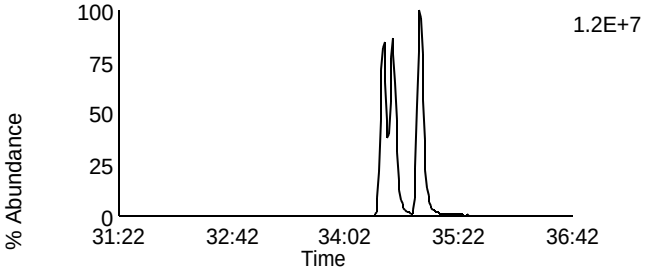
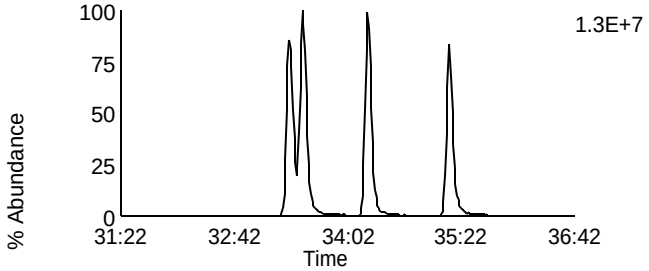
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G3 C6 - 385.861
SAMP 10247063004 - BAL PASI-WI



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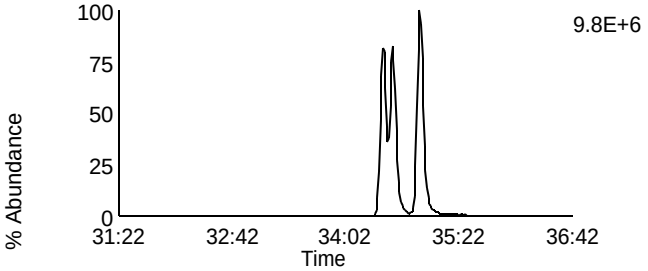

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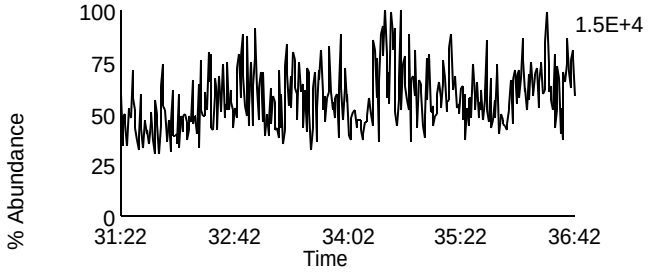
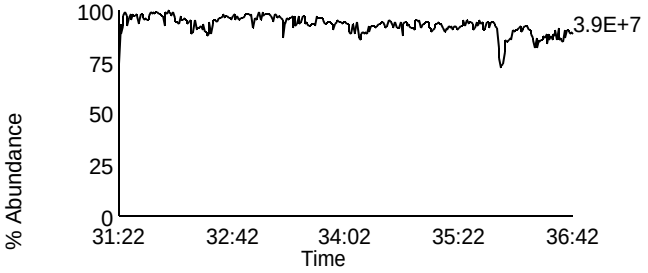
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G3 C3 - 380.976
SAMP 10247063004 - BAL PASI-WI

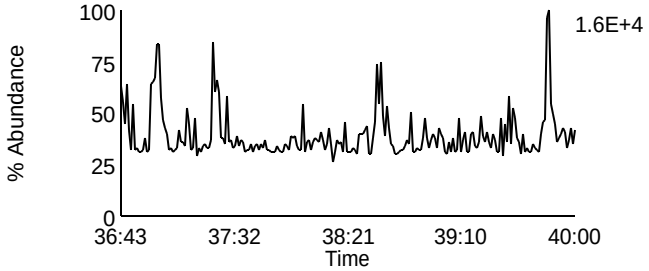


Homologue Group: Heptas

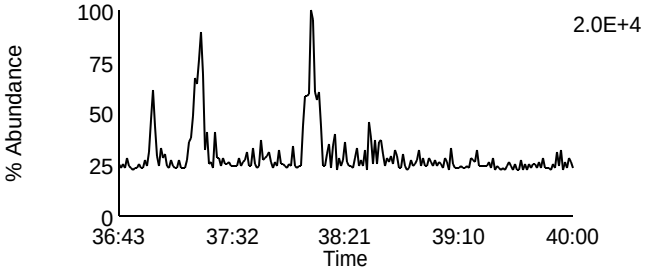
Data File Name: F131106A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063004 - BAL PASI-WI

Lab Sample ID: 10247063004
Client Sample ID: MAK012O
Instrument: 10MSHR05 (F)

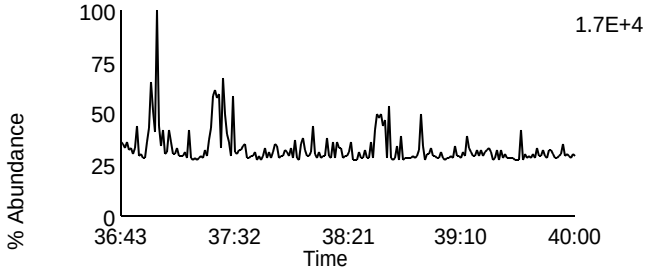
Data File: F131106A_07 G4 C3 - 407.7818
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G4 C8 - 423.7767
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G4 C4 - 409.7788
SAMP 10247063004 - BAL PASI-WI



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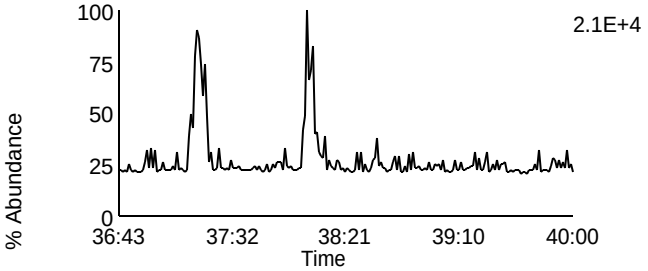
SAMP 10247063004 - BAL PASI-WI



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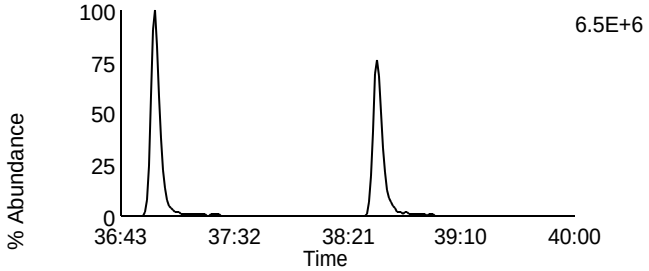
SAMP 10247063004 - BAL PASI-WI



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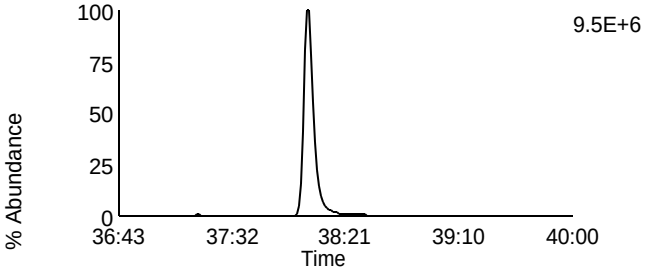
SAMP 10247063004 - BAL PASI-WI



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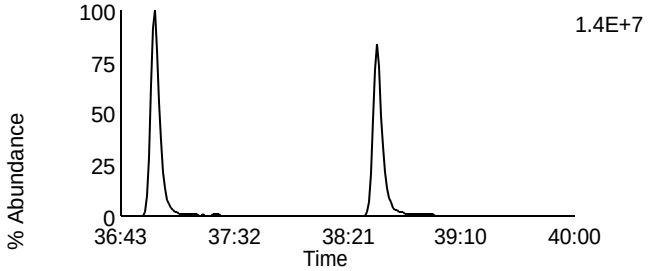
SAMP 10247063004 - BAL PASI-WI



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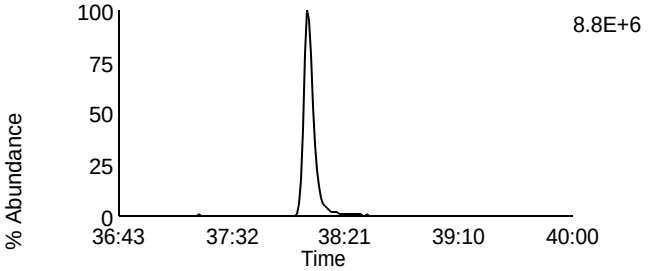
SAMP 10247063004 - BAL PASI-WI



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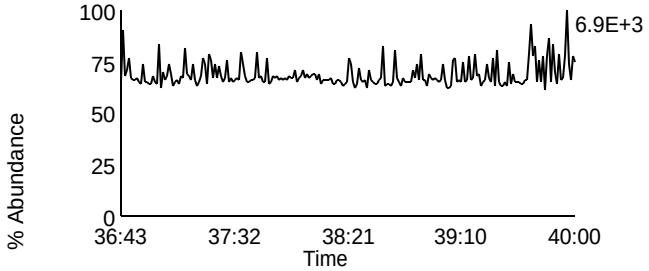
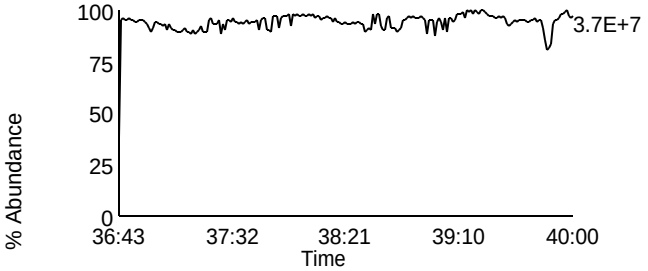
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G4 C1 - 380.976
SAMP 10247063004 - BAL PASI-WI

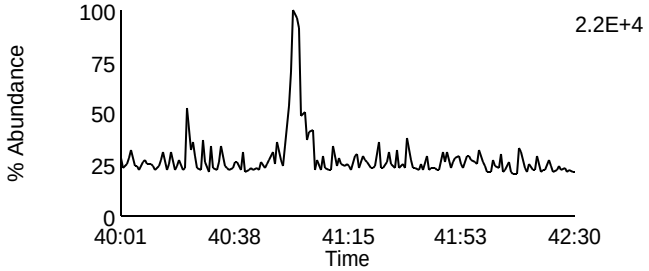


Homologue Group: Octas

Data File Name: F131106A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063004 - BAL PASI-WI

Lab Sample ID: 10247063004
Client Sample ID: MAK012O
Instrument: 10MSHR05 (F)

Data File: F131106A_07 G5 C4 - 441.7428
SAMP 10247063004 - BAL PASI-WI



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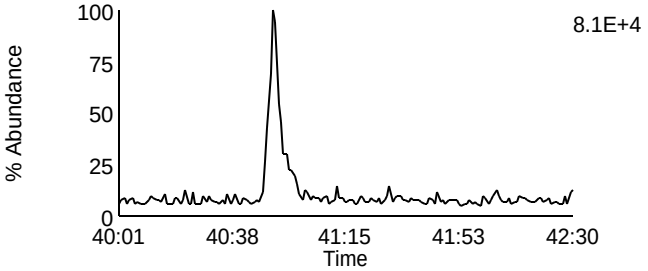
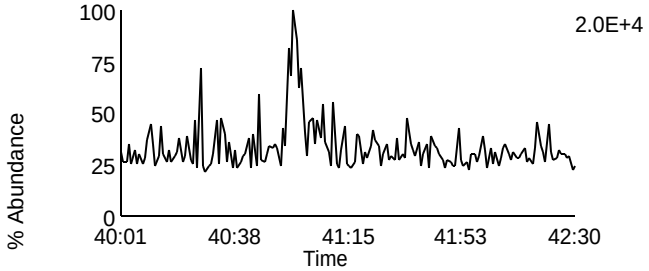
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G5 C5 - 443.7398
SAMP 10247063004 - BAL PASI-WI



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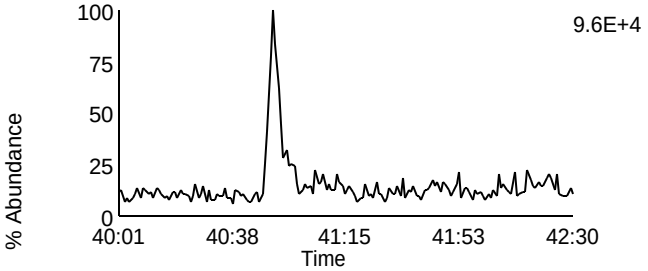
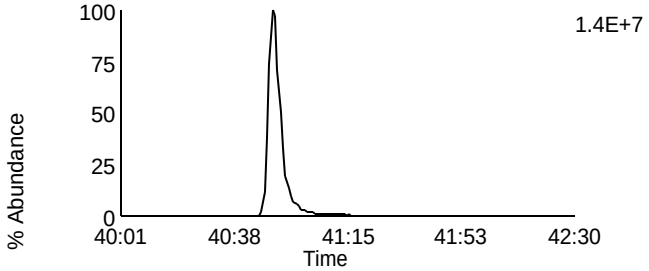
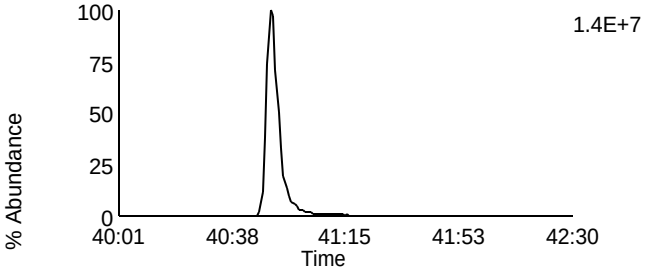
SAMP 10247063004 - BAL PASI-WI



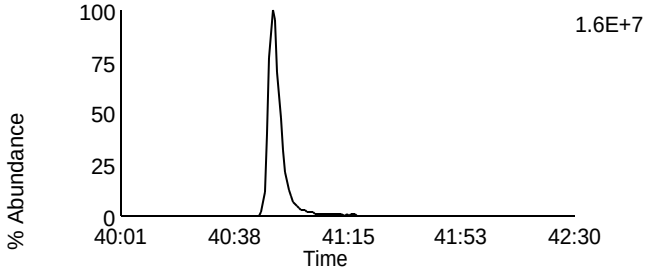
Data File: F131106A_07 G5 C11 - 469.7779
SAMP 10247063004 - BAL PASI-WI



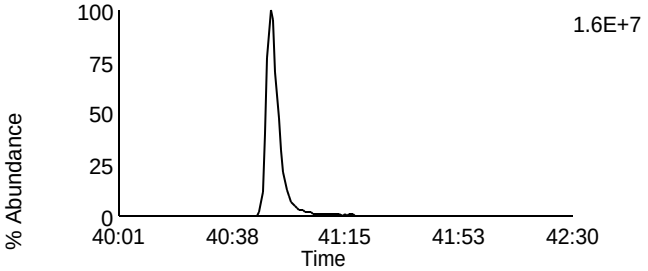
Data File: F131106A_07 G5 C11 - 469.7779
SAMP 10247063004 - BAL PASI-WI



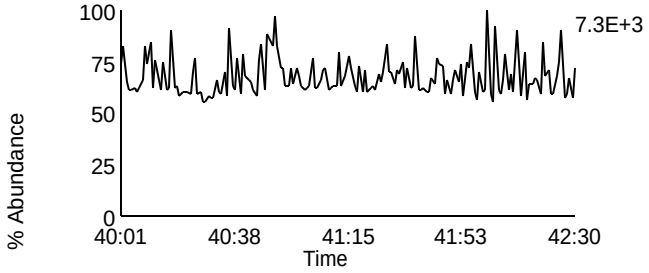
Data File: F131106A_07 G5 C12 - 471.7749
SAMP 10247063004 - BAL PASI-WI



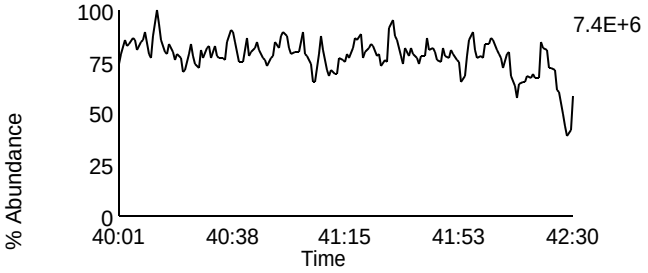
Data File: F131106A_07 G5 C12 - 471.7749
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G5 C13 - 513.6775
SAMP 10247063004 - BAL PASI-WI



Data File: F131106A_07 G5 C2 - 430.9728
SAMP 10247063004 - BAL PASI-WI

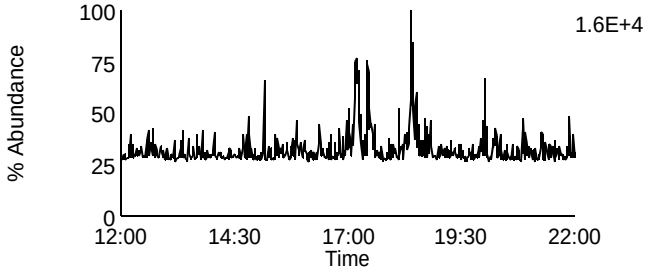


Homologue Group: Tetras

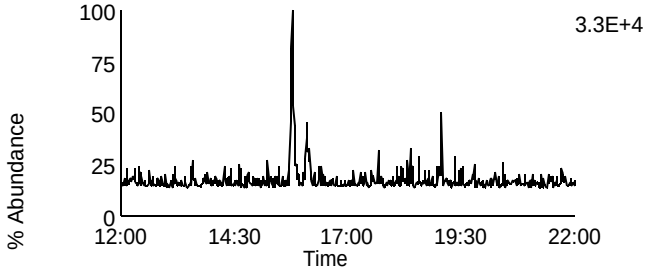
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

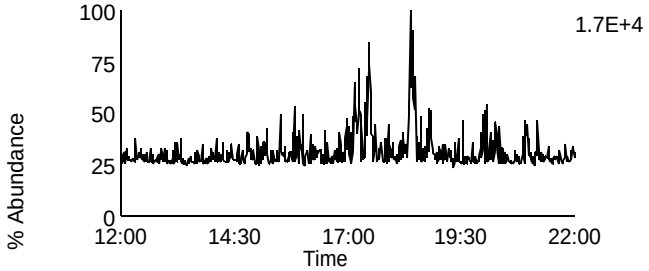
Data File: F131106A_08 G1 C1 - 303.9016
SAMP 10247063005 - BAL PASI-WI



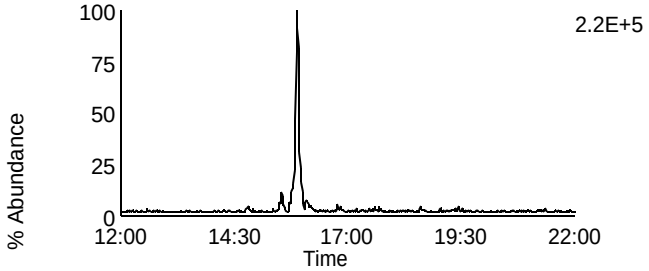
Data File: F131106A_08 G1 C7 - 319.8965
SAMP 10247063005 - BAL PASI-WI



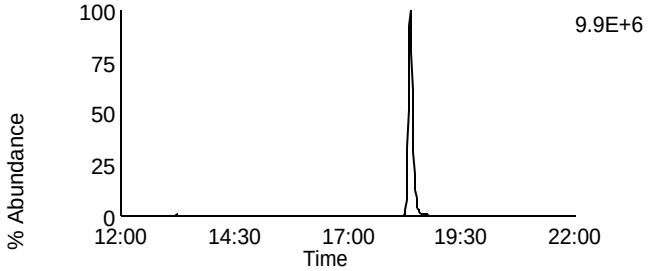
Data File: F131106A_08 G1 C2 - 305.8987
SAMP 10247063005 - BAL PASI-WI



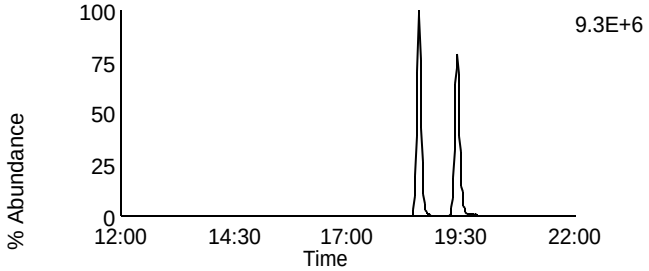
Data File: F131106A_08 G1 C8 - 321.8936
SAMP 10247063005 - BAL PASI-WI



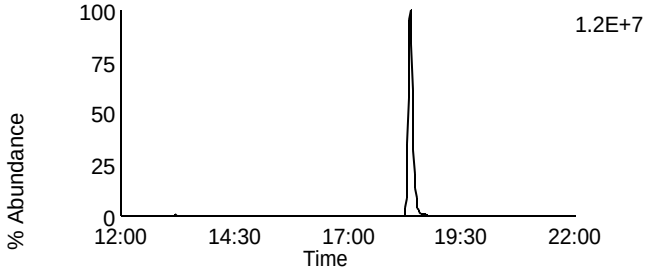
Data File: F131106A_08 G1 C3 - 315.9418
SAMP 10247063005 - BAL PASI-WI



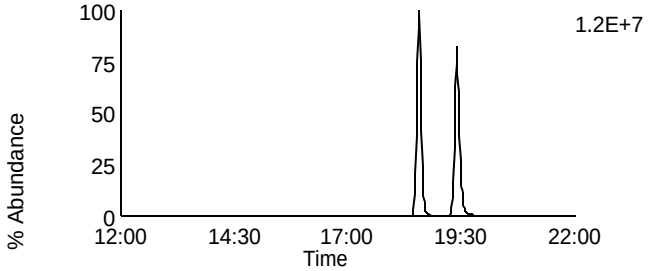
Data File: F131106A_08 G1 C10 - 331.9367
SAMP 10247063005 - BAL PASI-WI



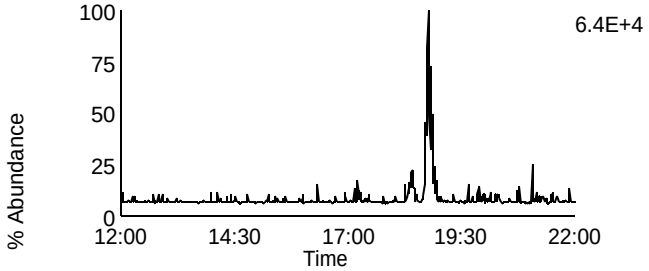
Data File: F131106A_08 G1 C4 - 317.9389
SAMP 10247063005 - BAL PASI-WI



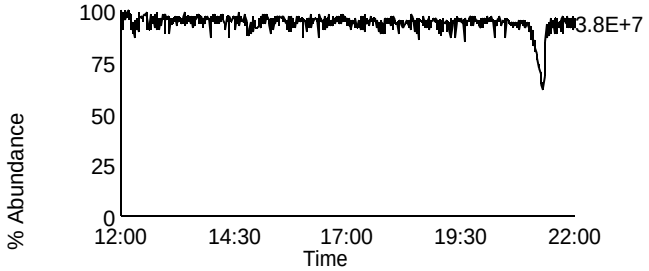
Data File: F131106A_08 G1 C11 - 333.9338
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G1 C14 - 375.8364
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G1 C5 - 318.9792
SAMP 10247063005 - BAL PASI-WI

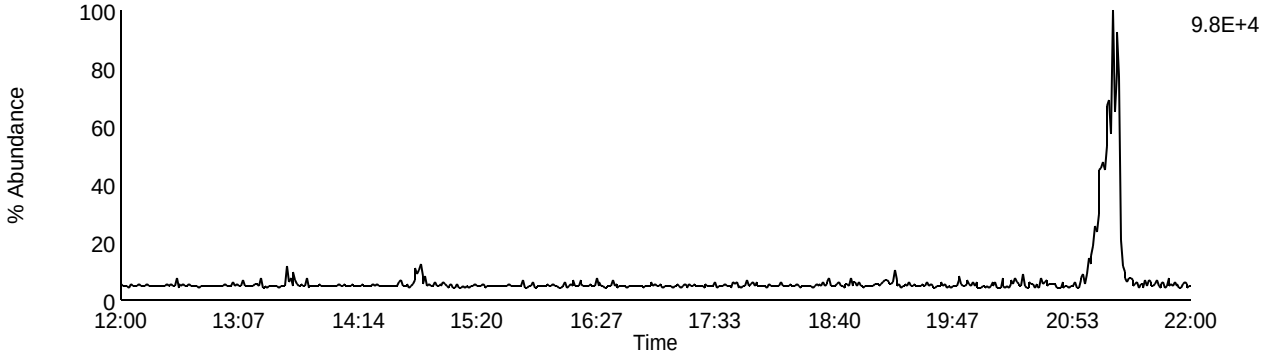


Homologue Group: Penta & Cleanup

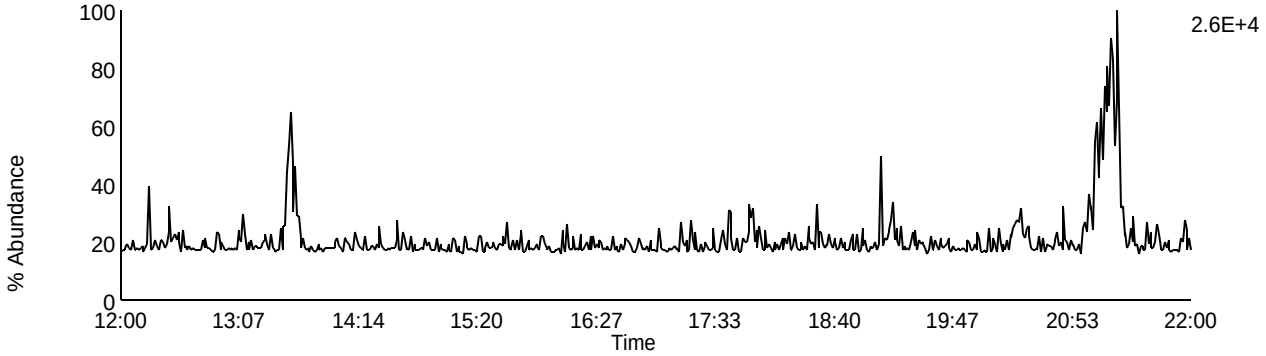
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

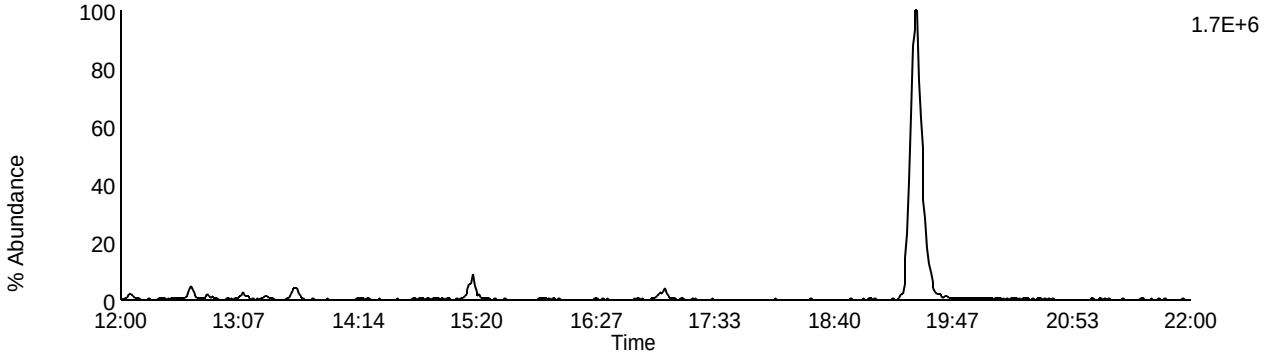
Data File: F131106A_08 G1 C12 - 339.8597
SAMP 10247063005 - BAL PASI-WI



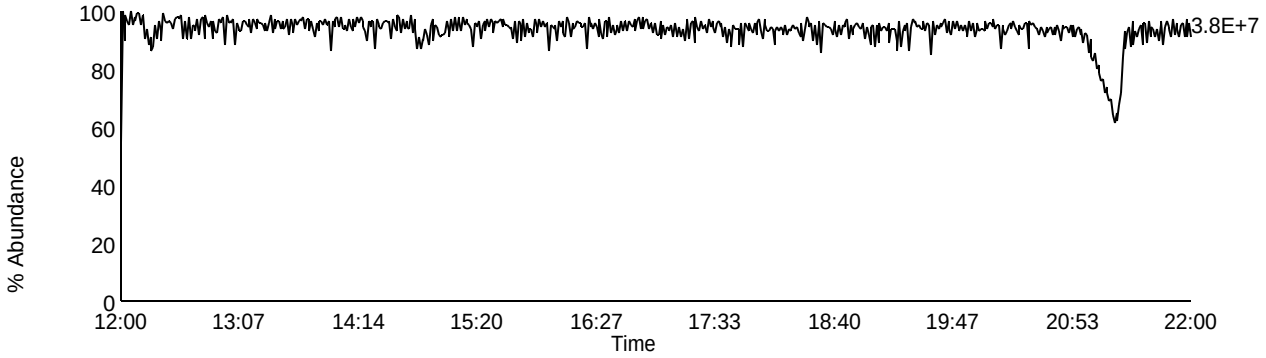
Data File: F131106A_08 G1 C13 - 341.8567
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G1 C9 - 327.8847
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G1 C5 - 318.9792
SAMP 10247063005 - BAL PASI-WI

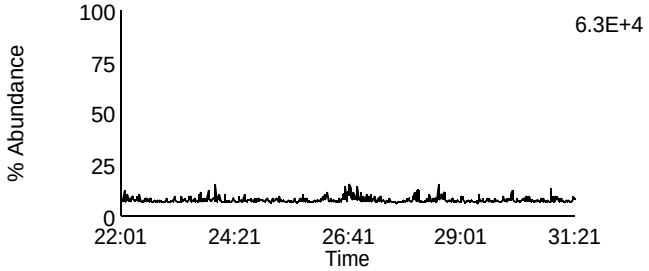


Homologue Group: Pentas

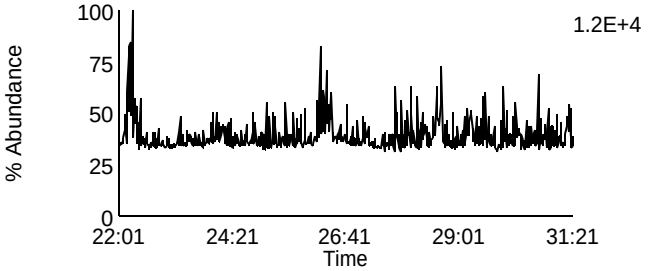
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

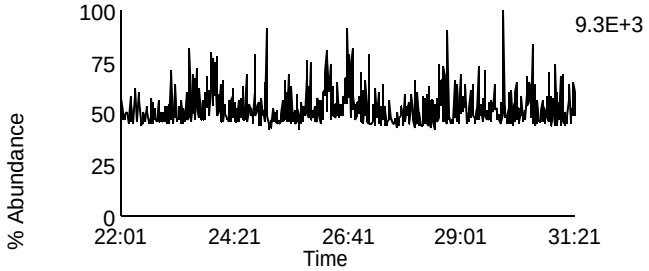
Data File: F131106A_08 G2 C1 - 339.8597
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G2 C4 - 353.8576
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G2 C2 - 341.8567
SAMP 10247063005 - BAL PASI-WI



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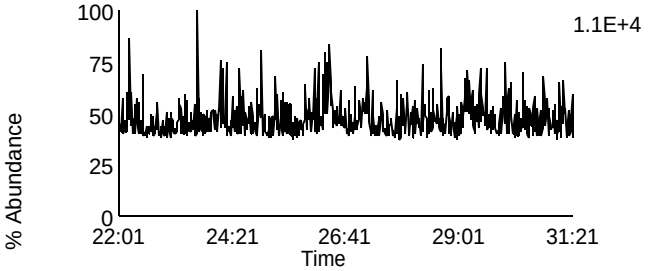
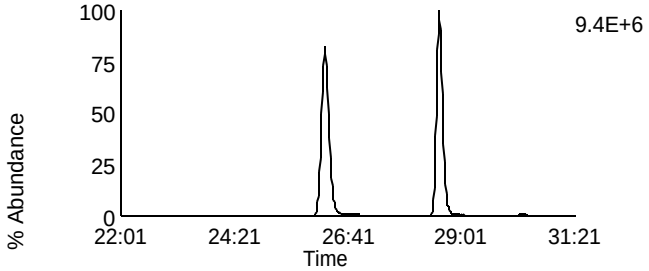
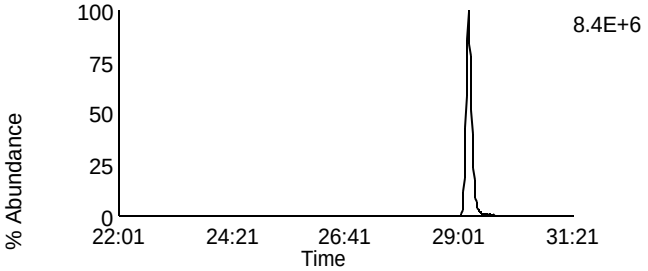
SAMP 10247063005 - BAL PASI-WI



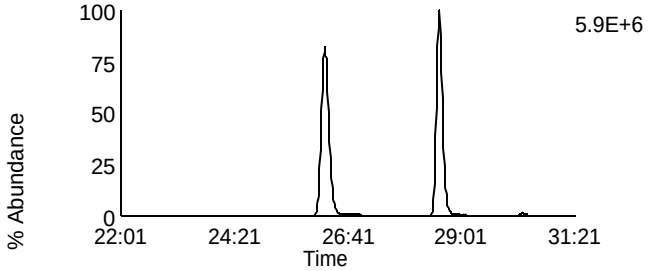
Data File: F131106A_08 G2 C3 - 351.8999
SAMP 10247063005 - BAL PASI-WI



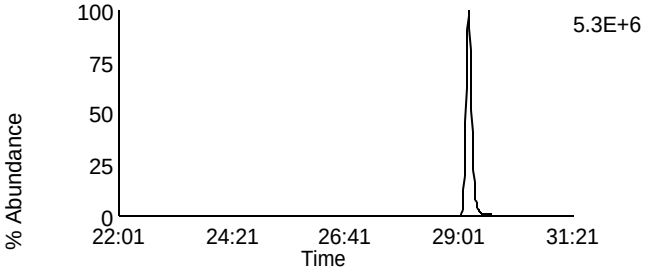
Data File: F131106A_08 G2 C10 - 367.8948
SAMP 10247063005 - BAL PASI-WI



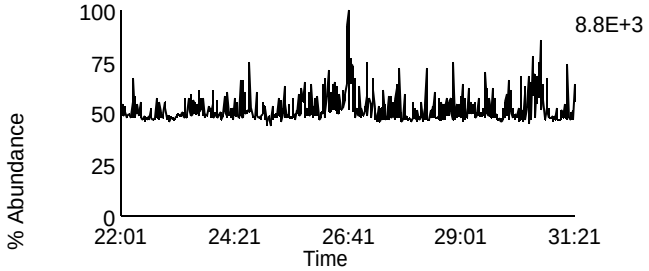
Data File: F131106A_08 G2 C5 - 353.8969
SAMP 10247063005 - BAL PASI-WI



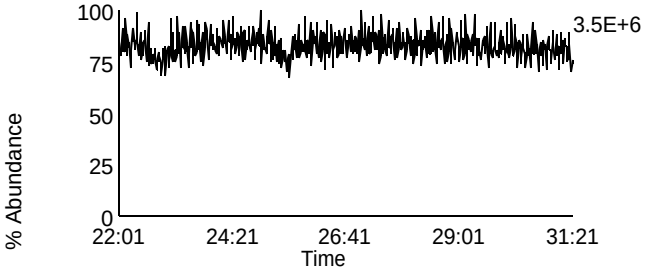
Data File: F131106A_08 G2 C11 - 369.8918
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G2 C12 - 409.7974
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G2 C6 - 354.9792
SAMP 10247063005 - BAL PASI-WI

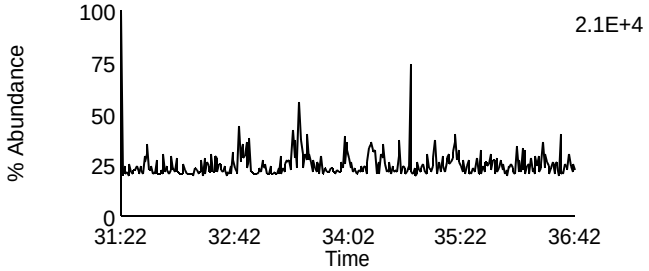


Homologue Group: Hexas

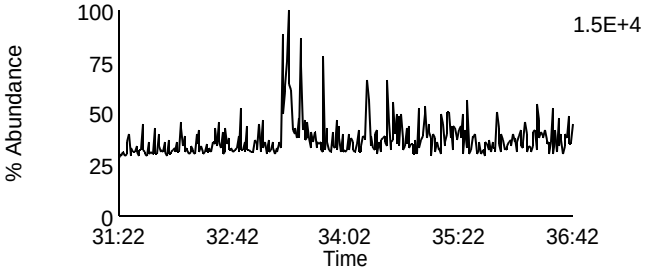
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

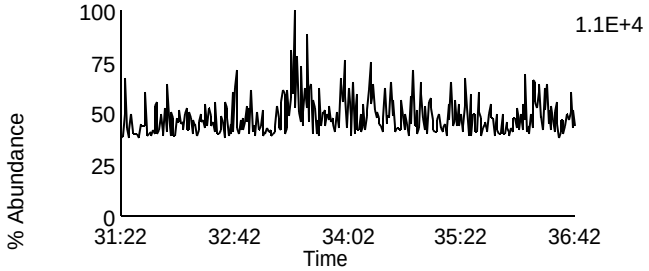
Data File: F131106A_08 G3 C1 - 373.8207
SAMP 10247063005 - BAL PASI-WI



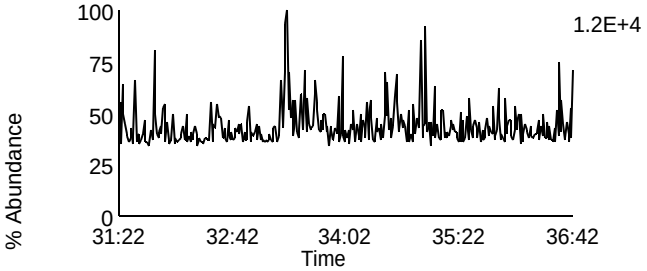
Data File: F131106A_08 G3 C7 - 389.8156
SAMP 10247063005 - BAL PASI-WI



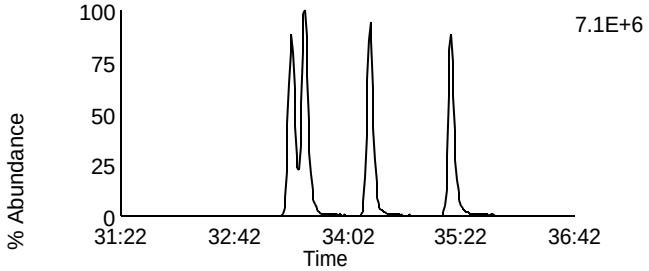
Data File: F131106A_08 G3 C2 - 375.8178
SAMP 10247063005 - BAL PASI-WI



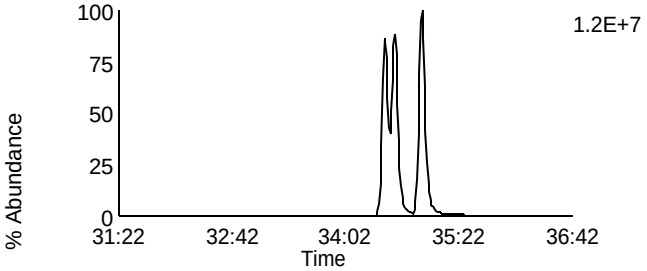
Data File: F131106A_08 G3 C8 - 391.8127
SAMP 10247063005 - BAL PASI-WI



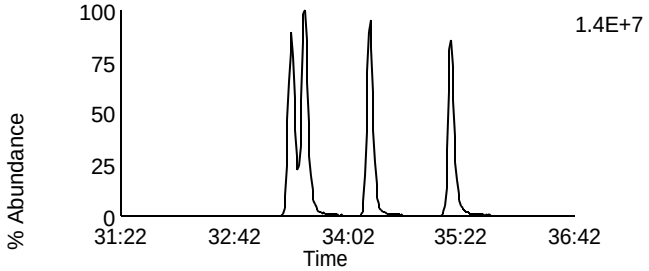
Data File: F131106A_08 G3 C5 - 383.8639
SAMP 10247063005 - BAL PASI-WI



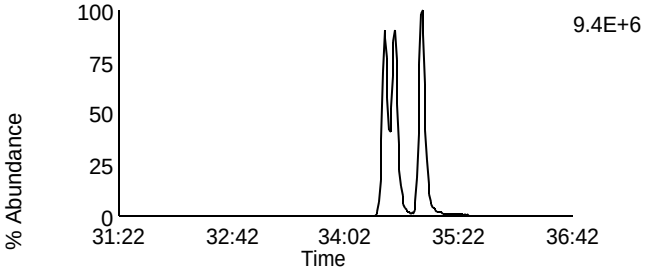
Data File: F131106A_08 G3 C9 - 401.8559
SAMP 10247063005 - BAL PASI-WI



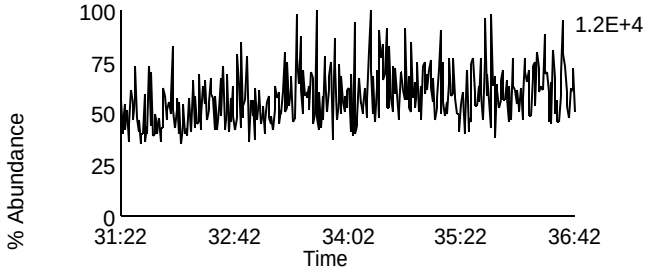
Data File: F131106A_08 G3 C6 - 385.861
SAMP 10247063005 - BAL PASI-WI



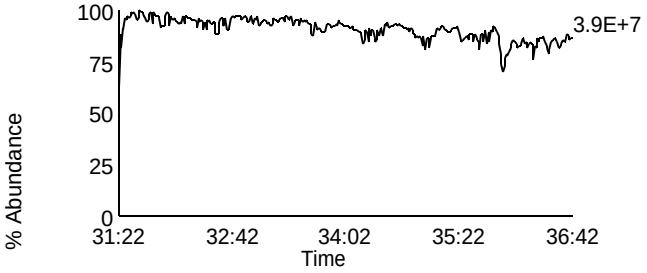
Data File: F131106A_08 G3 C10 - 403.8529
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G3 C11 - 445.7555
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G3 C3 - 380.976
SAMP 10247063005 - BAL PASI-WI

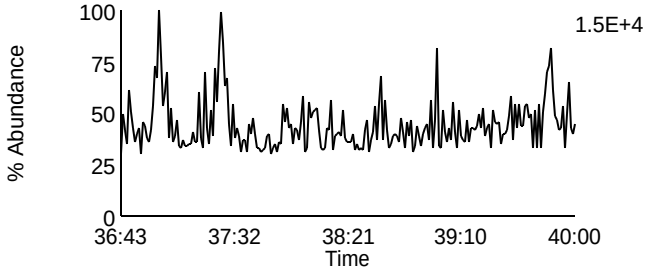


Homologue Group: Heptas

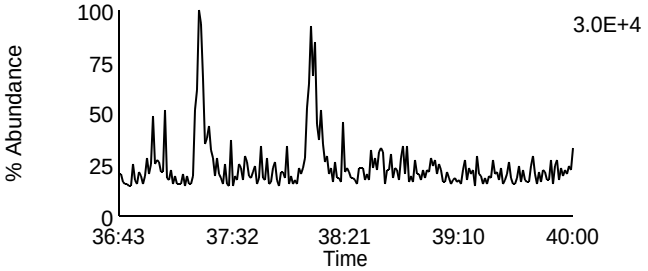
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

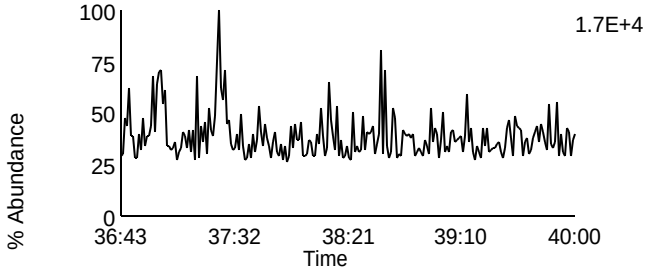
Data File: F131106A_08 G4 C3 - 407.7818
SAMP 10247063005 - BAL PASI-WI



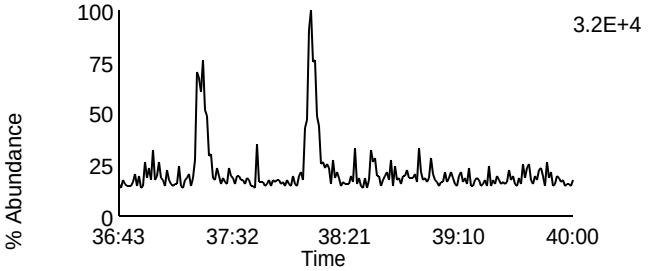
Data File: F131106A_08 G4 C8 - 423.7767
SAMP 10247063005 - BAL PASI-WI



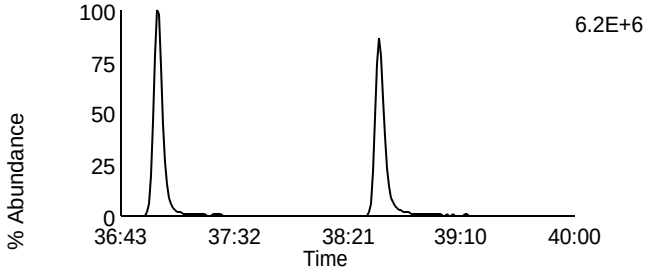
Data File: F131106A_08 G4 C4 - 409.7788
SAMP 10247063005 - BAL PASI-WI



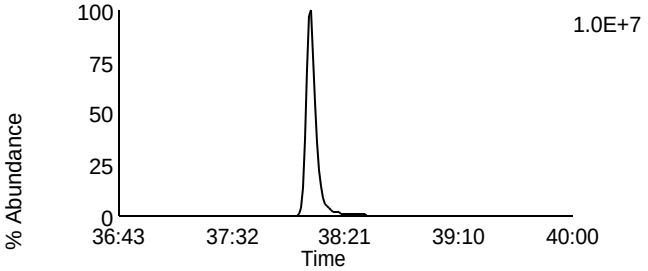
Data File: F131106A_08 G4 C9 - 425.7737
SAMP 10247063005 - BAL PASI-WI



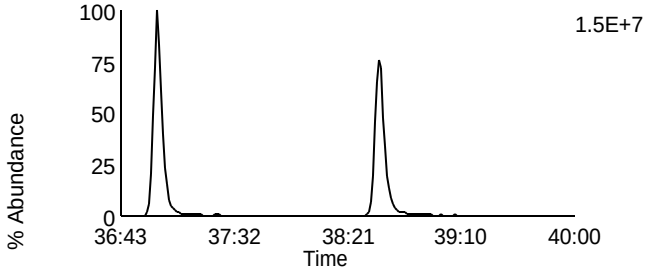
Data File: F131106A_08 G4 C6 - 417.825
SAMP 10247063005 - BAL PASI-WI



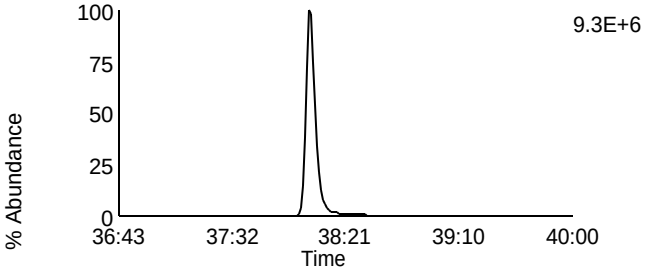
Data File: F131106A_08 G4 C11 - 435.8169
SAMP 10247063005 - BAL PASI-WI



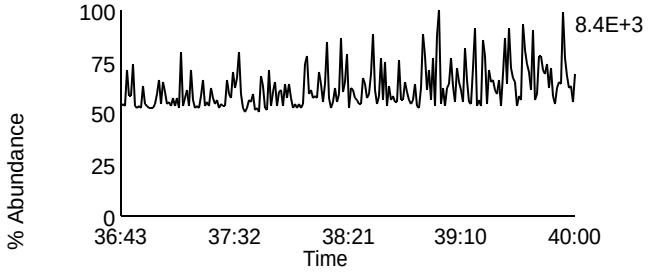
Data File: F131106A_08 G4 C7 - 419.822
SAMP 10247063005 - BAL PASI-WI



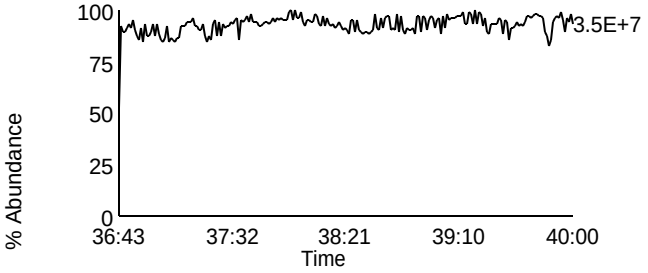
Data File: F131106A_08 G4 C12 - 437.814
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G4 C13 - 479.7165
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G4 C1 - 380.976
SAMP 10247063005 - BAL PASI-WI

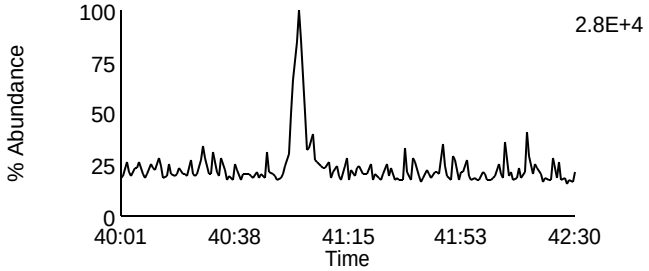


Homologue Group: Octas

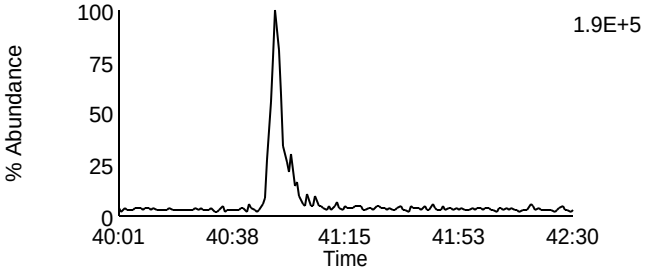
Data File Name: F131106A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063005 - BAL PASI-WI

Lab Sample ID: 10247063005
Client Sample ID: MAK013O
Instrument: 10MSHR05 (F)

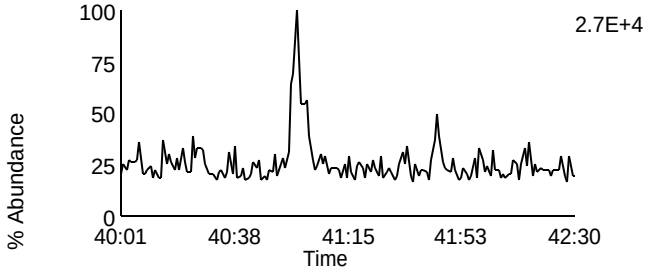
Data File: F131106A_08 G5 C4 - 441.7428
SAMP 10247063005 - BAL PASI-WI



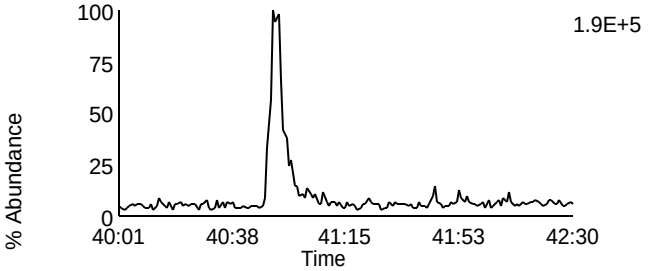
Data File: F131106A_08 G5 C8 - 457.7377
SAMP 10247063005 - BAL PASI-WI



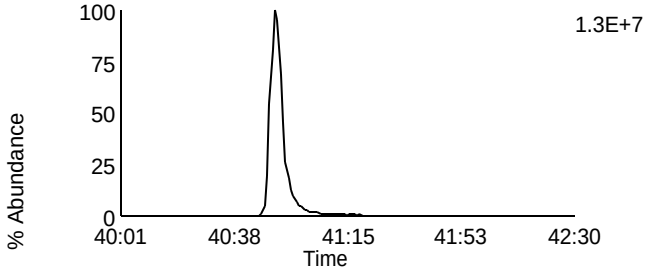
Data File: F131106A_08 G5 C5 - 443.7398
SAMP 10247063005 - BAL PASI-WI



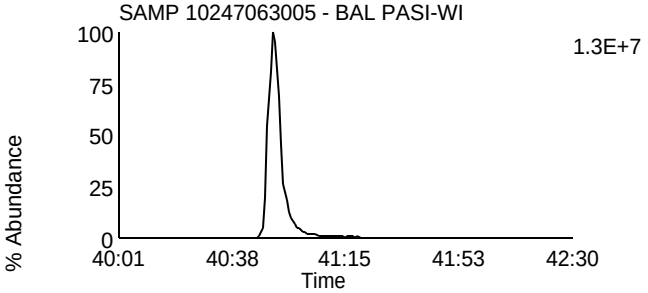
Data File: F131106A_08 G5 C9 - 459.7347
SAMP 10247063005 - BAL PASI-WI



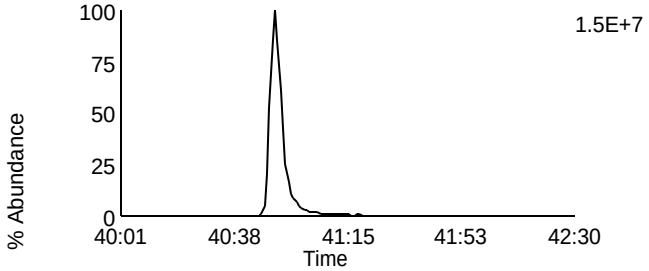
Data File: F131106A_08 G5 C11 - 469.7779
SAMP 10247063005 - BAL PASI-WI



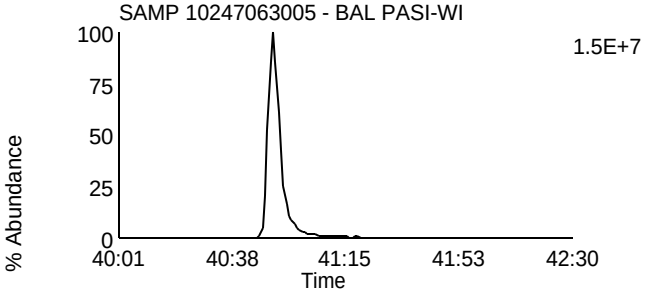
Data File: F131106A_08 G5 C11 - 469.7779
SAMP 10247063005 - BAL PASI-WI



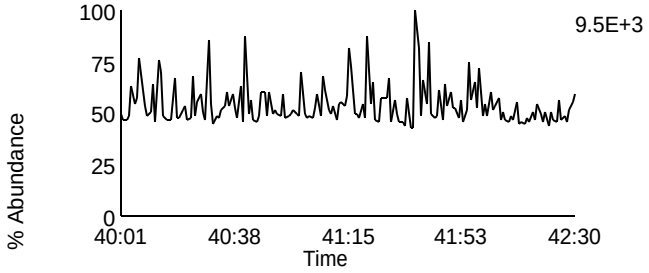
Data File: F131106A_08 G5 C12 - 471.7749
SAMP 10247063005 - BAL PASI-WI



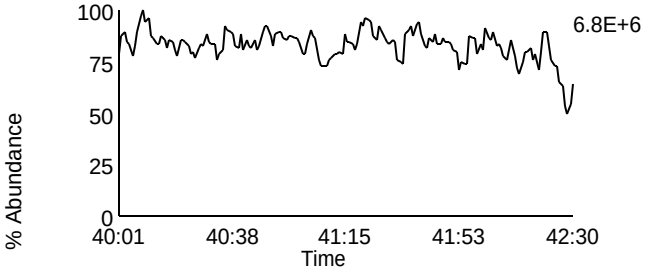
Data File: F131106A_08 G5 C12 - 471.7749
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G5 C13 - 513.6775
SAMP 10247063005 - BAL PASI-WI



Data File: F131106A_08 G5 C2 - 430.9728
SAMP 10247063005 - BAL PASI-WI

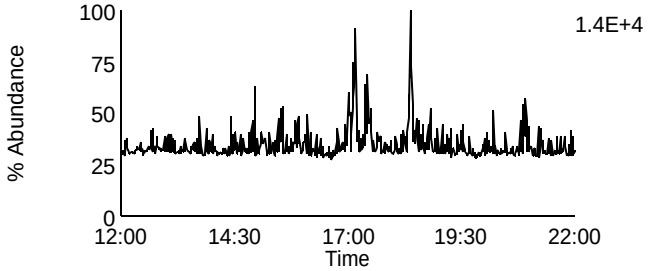


Homologue Group: Tetras

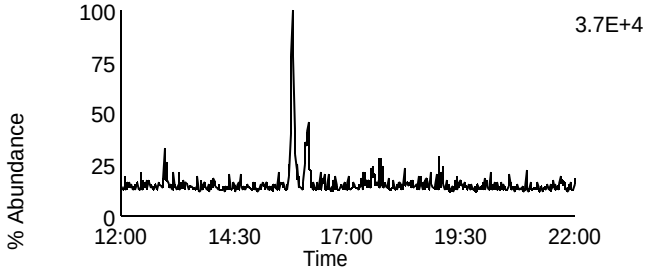
Data File Name: F131106A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063006 - BAL PASI-WI

Lab Sample ID: 10247063006
Client Sample ID: MAK014O
Instrument: 10MSHR05 (F)

Data File: F131106A_09 G1 C1 - 303.9016
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G1 C7 - 319.8965
SAMP 10247063006 - BAL PASI-WI



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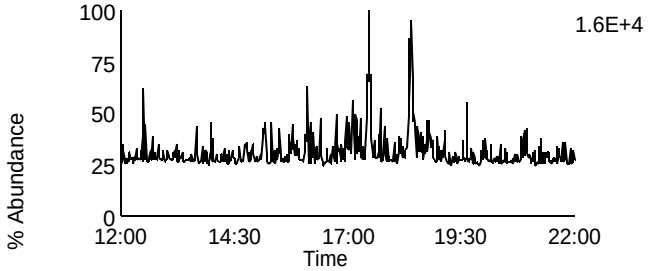
SAMP 10247063006 - BAL PASI-WI



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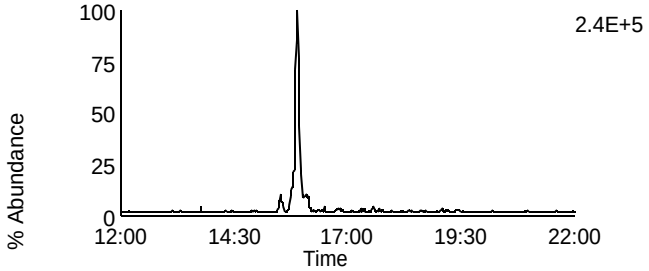
SAMP 10247063006 - BAL PASI-WI



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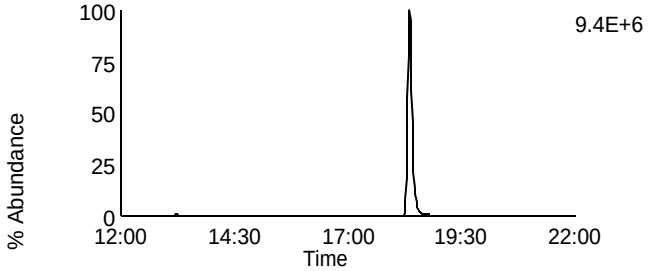
SAMP 10247063006 - BAL PASI-WI



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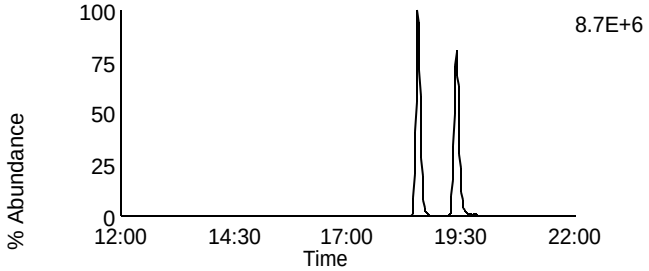
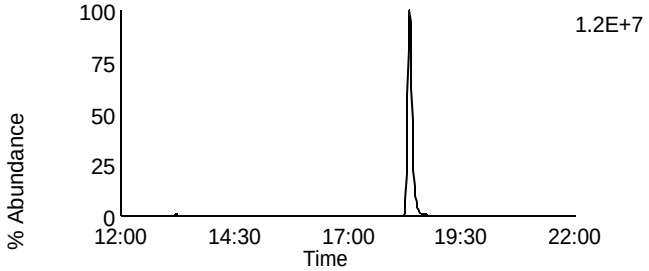
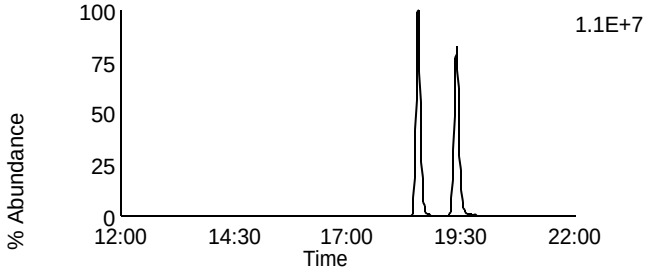
SAMP 10247063006 - BAL PASI-WI



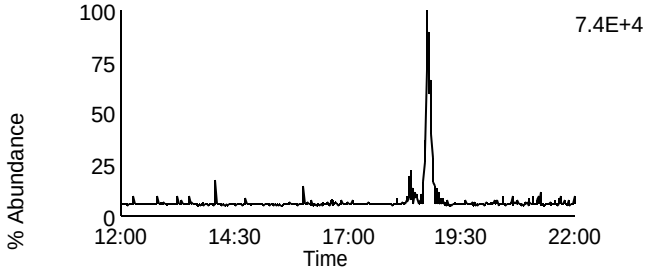
Data File: F131106A_09 G1 C4 - 317.9389
SAMP 10247063006 - BAL PASI-WI



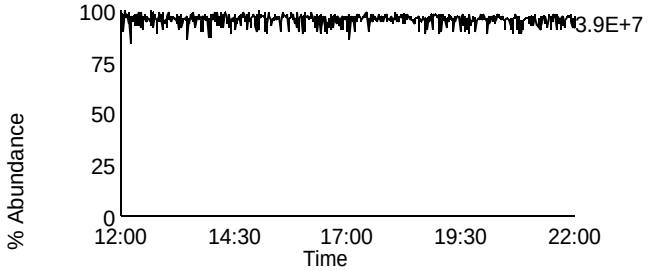
Data File: F131106A_09 G1 C11 - 333.9338
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G1 C14 - 375.8364
SAMP 10247063006 - BAL PASI-WI



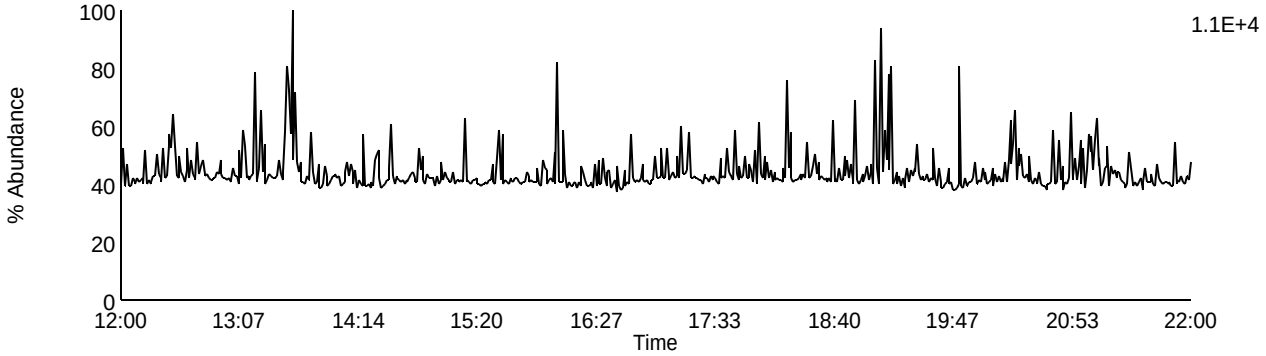
Data File: F131106A_09 G1 C5 - 318.9792
SAMP 10247063006 - BAL PASI-WI



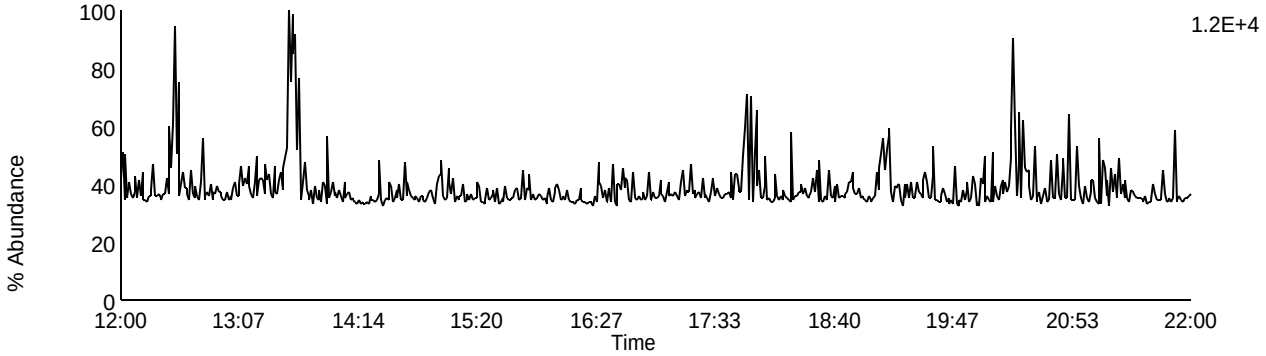
Homologue Group: Penta & Cleanup

Data File Name: F131106A_09	Lab Sample ID: 10247063006
Date Acquired: 11/7/2013	Client Sample ID: MAK014O
Sample Description: SAMP 10247063006 - BAL PASI-WI	Instrument: 10MSHR05 (F)

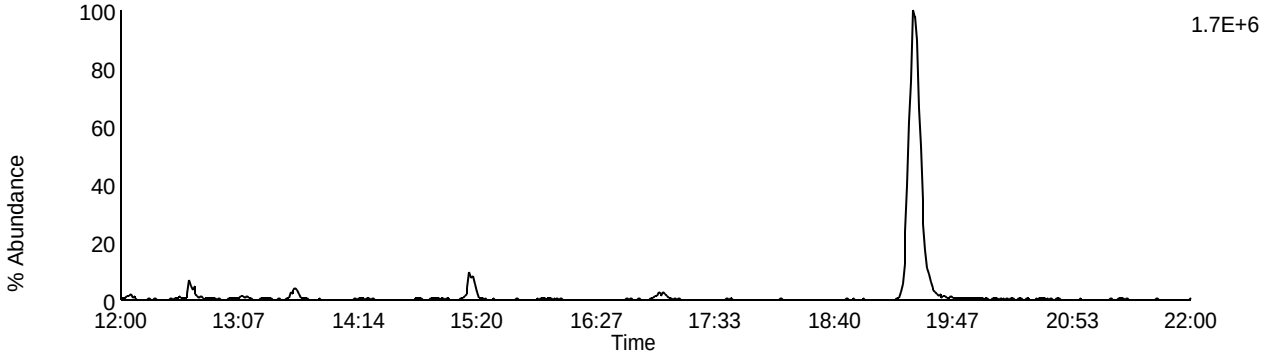
Data File: F131106A_09 G1 C12 - 339.8597
SAMP 10247063006 - BAL PASI-WI



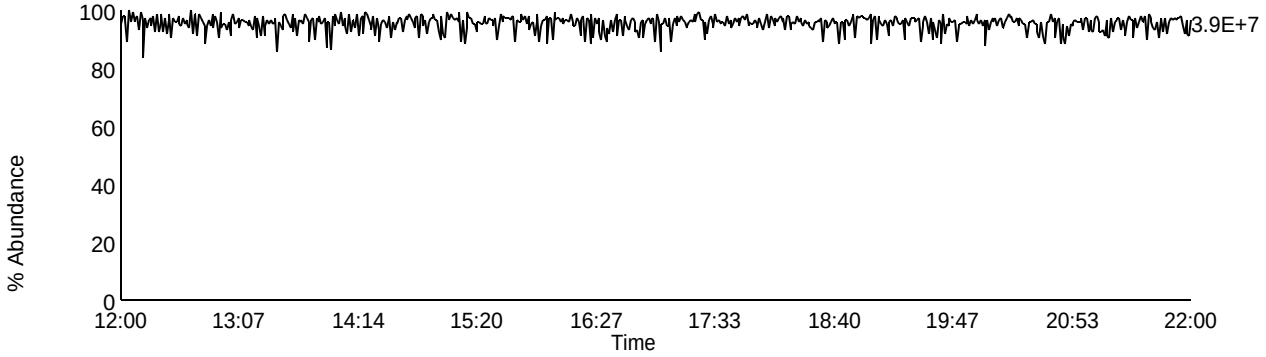
Data File: F131106A_09 G1 C13 - 341.8567
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G1 C9 - 327.8847
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G1 C5 - 318.9792
SAMP 10247063006 - BAL PASI-WI

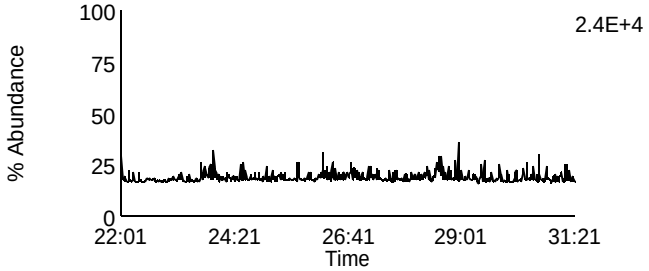


Homologue Group: Pentas

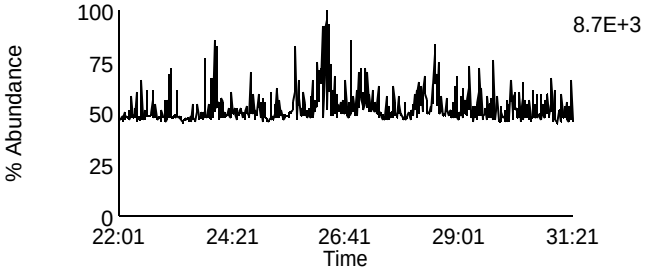
Data File Name: F131106A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063006 - BAL PASI-WI

Lab Sample ID: 10247063006
Client Sample ID: MAK014O
Instrument: 10MSHR05 (F)

Data File: F131106A_09 G2 C1 - 339.8597
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G2 C4 - 353.8576
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G2 C2 - 341.8567
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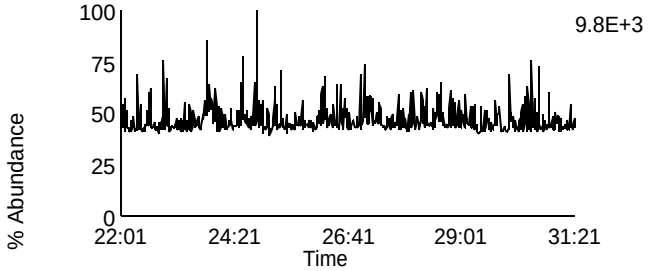
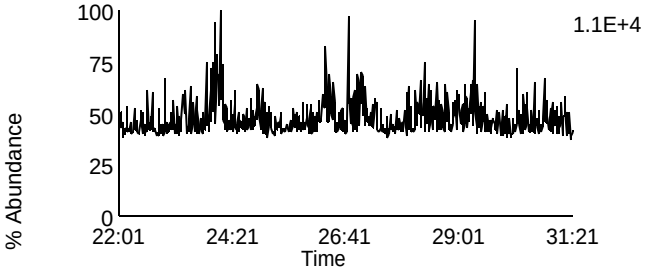
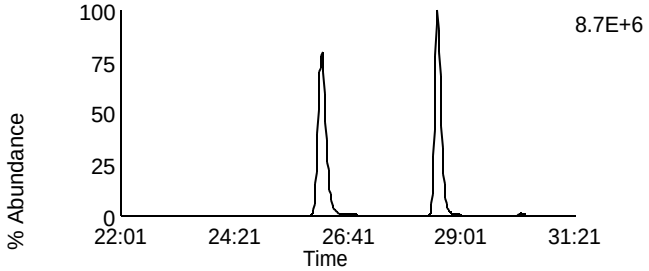


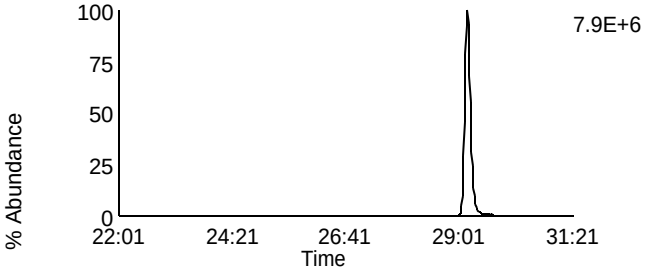
Data File: F131106A_09 G2 C8 - 355.8546
SAMP 10247063006 - BAL PASI-WI



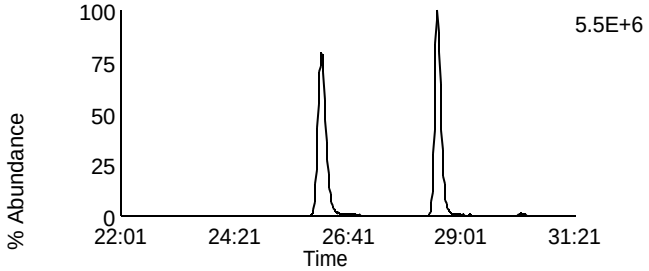
Data File: F131106A_09 G2 C3 - 351.8999
SAMP 10247063006 - BAL PASI-WI



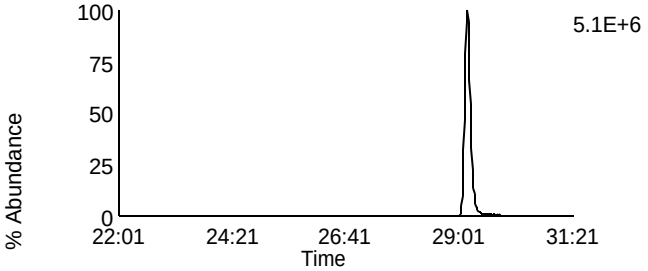
Data File: F131106A_09 G2 C10 - 367.8948
SAMP 10247063006 - BAL PASI-WI



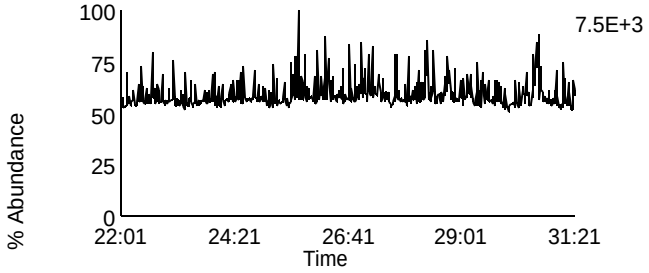
Data File: F131106A_09 G2 C5 - 353.8969
SAMP 10247063006 - BAL PASI-WI



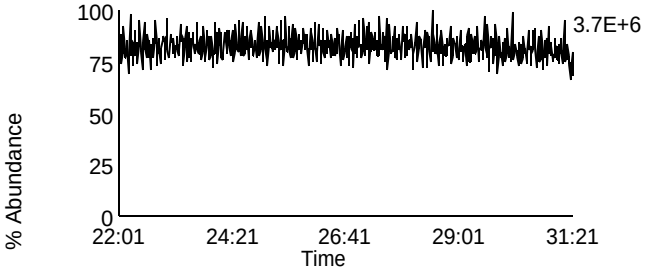
Data File: F131106A_09 G2 C11 - 369.8918
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G2 C12 - 409.7974
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G2 C6 - 354.9792
SAMP 10247063006 - BAL PASI-WI

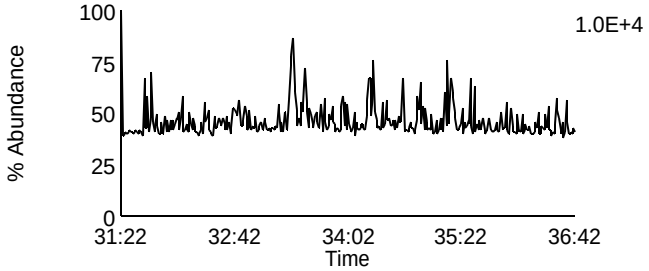


Homologue Group: Hexas

Data File Name: F131106A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063006 - BAL PASI-WI

Lab Sample ID: 10247063006
Client Sample ID: MAK014O
Instrument: 10MSHR05 (F)

Data File: F131106A_09 G3 C1 - 373.8207
SAMP 10247063006 - BAL PASI-WI



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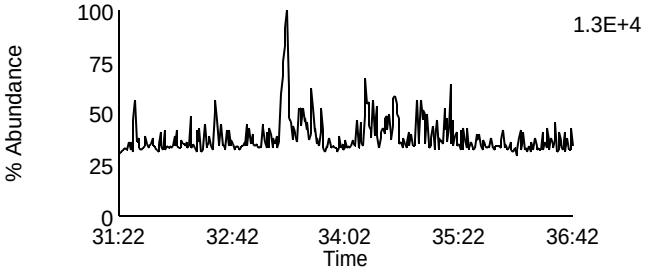
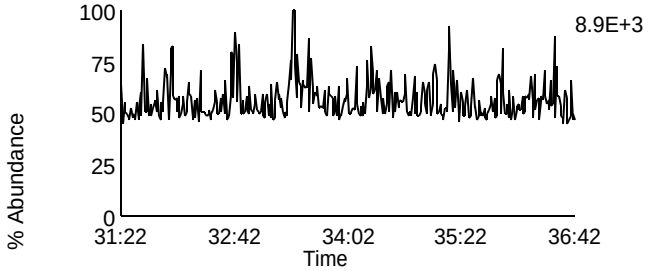


Data File: F131106A_09 G3 C2 - 375.8178
SAMP 10247063006 - BAL PASI-WI



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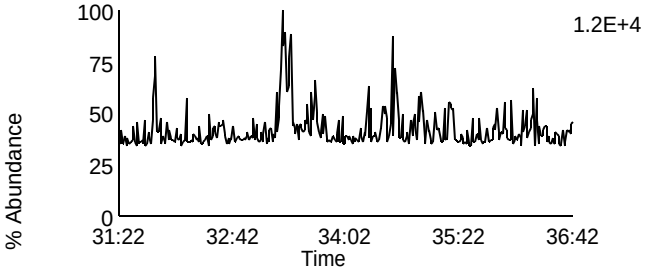
SAMP 10247063006 - BAL PASI-WI



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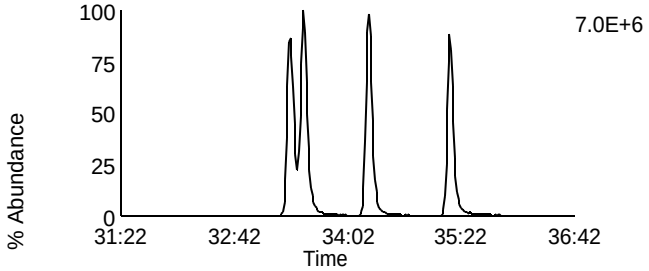
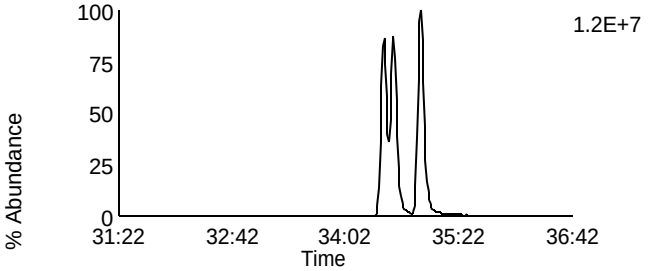
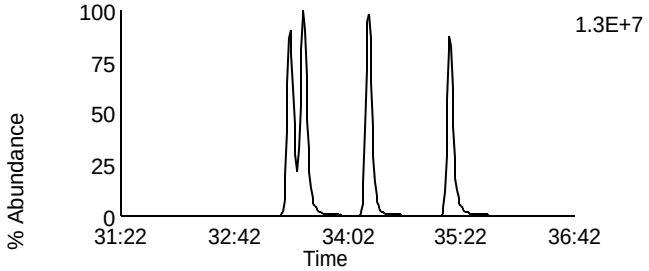
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G3 C9 - 401.8559
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G3 C6 - 385.861
SAMP 10247063006 - BAL PASI-WI



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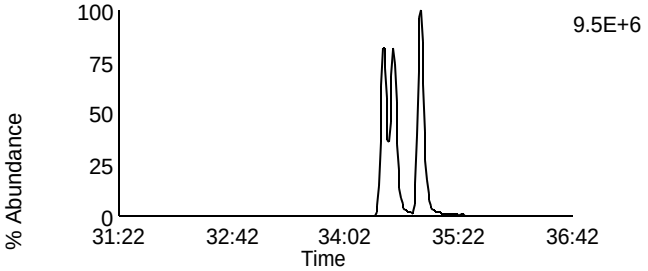
SAMP 10247063006 - BAL PASI-WI



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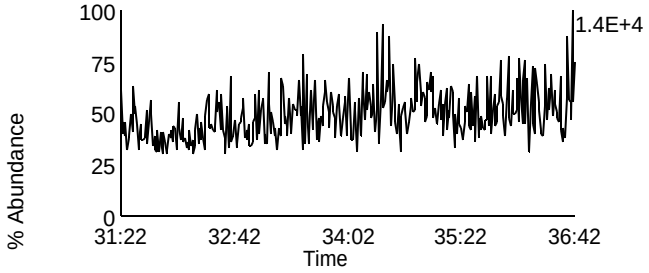
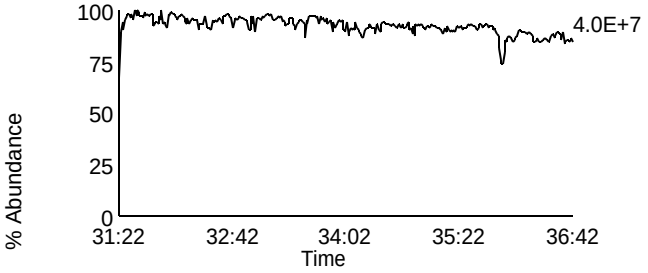
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G3 C3 - 380.976
SAMP 10247063006 - BAL PASI-WI

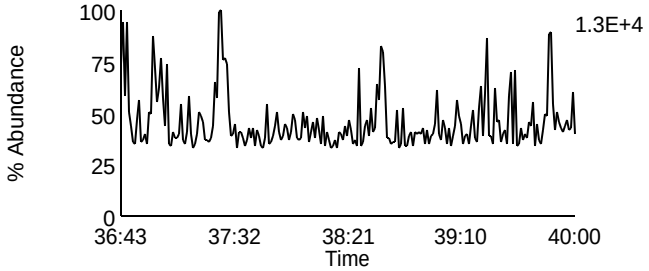


Homologue Group: Heptas

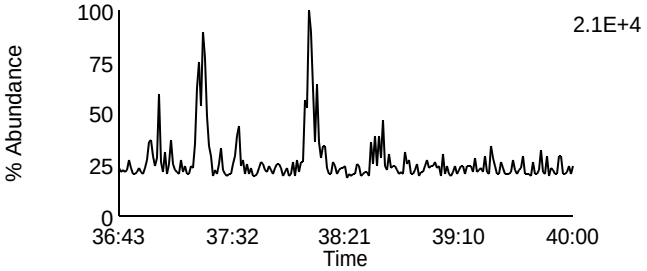
Data File Name: F131106A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063006 - BAL PASI-WI

Lab Sample ID: 10247063006
Client Sample ID: MAK014O
Instrument: 10MSHR05 (F)

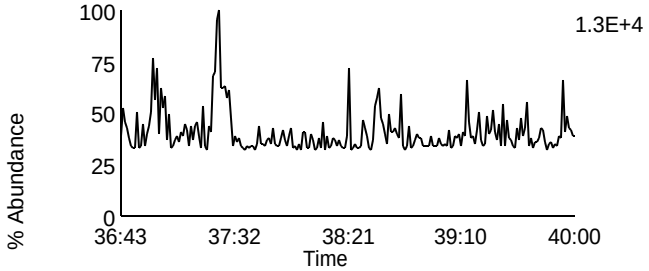
Data File: F131106A_09 G4 C3 - 407.7818
SAMP 10247063006 - BAL PASI-WI



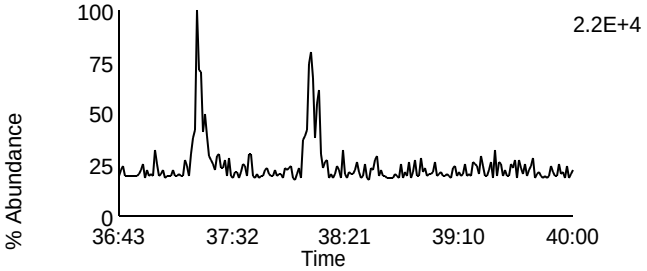
Data File: F131106A_09 G4 C8 - 423.7767
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G4 C4 - 409.7788
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G4 C9 - 425.7737
SAMP 10247063006 - BAL PASI-WI



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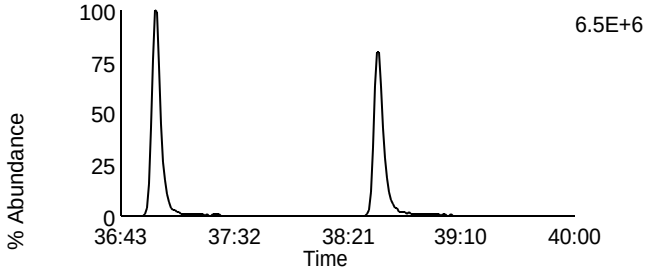
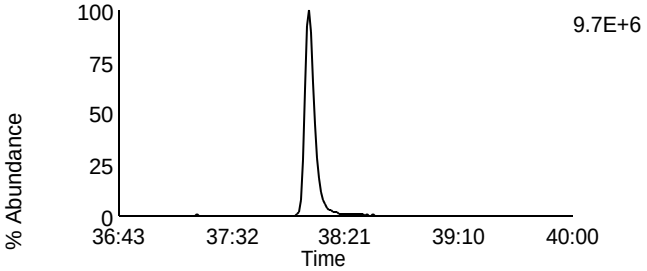
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G4 C11 - 435.8169
SAMP 10247063006 - BAL PASI-WI



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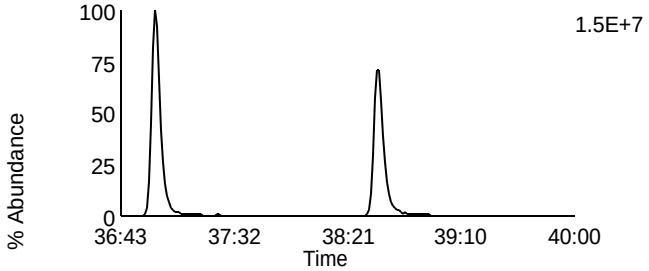
SAMP 10247063006 - BAL PASI-WI



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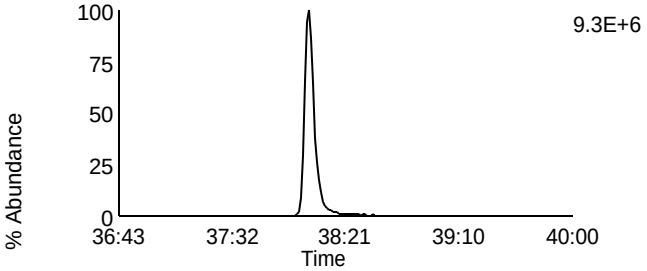
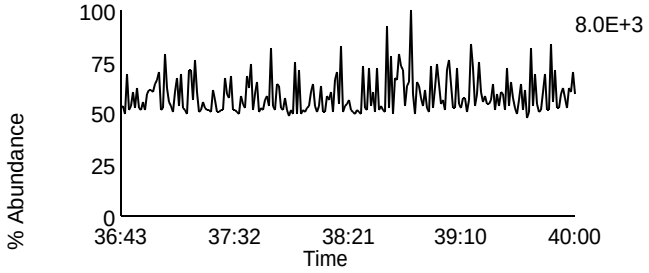
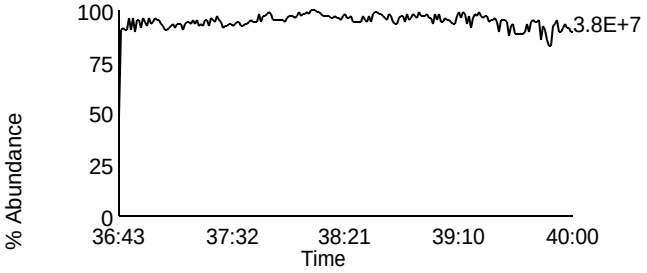
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G4 C13 - 479.7165
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G4 C1 - 380.976
SAMP 10247063006 - BAL PASI-WI

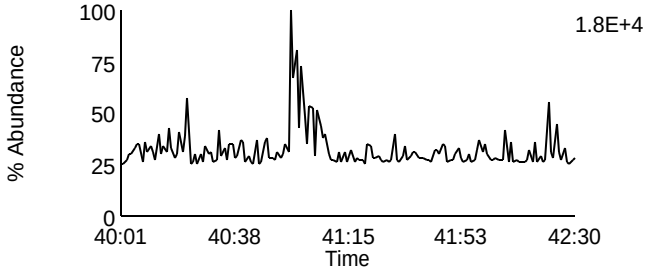


Homologue Group: Octas

Data File Name: F131106A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063006 - BAL PASI-WI

Lab Sample ID: 10247063006
Client Sample ID: MAK014O
Instrument: 10MSHR05 (F)

Data File: F131106A_09 G5 C4 - 441.7428
SAMP 10247063006 - BAL PASI-WI



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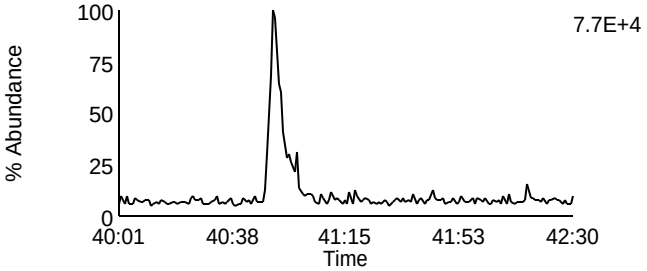
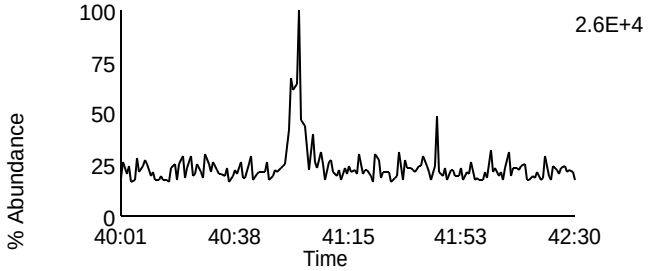
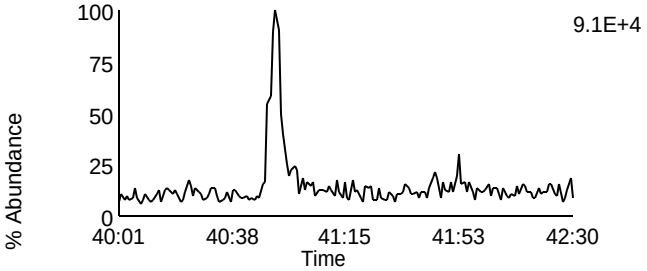
SAMP 10247063006 - BAL PASI-WI



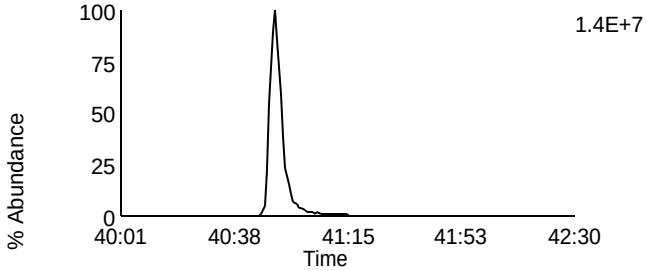
Data File: F131106A_09 G5 C5 - 443.7398
SAMP 10247063006 - BAL PASI-WI



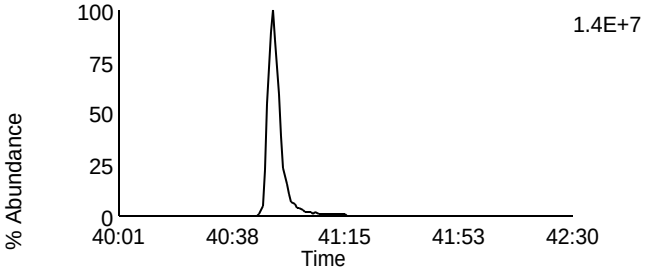
Data File: F131106A_09 G5 C9 - 459.7347
SAMP 10247063006 - BAL PASI-WI



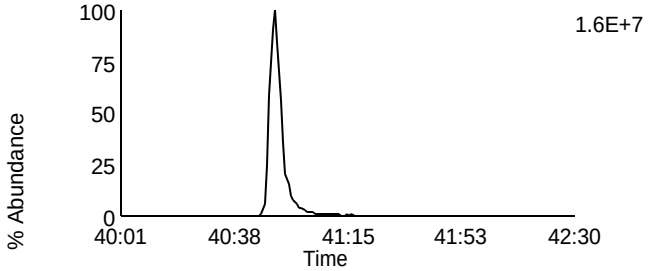
Data File: F131106A_09 G5 C11 - 469.7779
SAMP 10247063006 - BAL PASI-WI



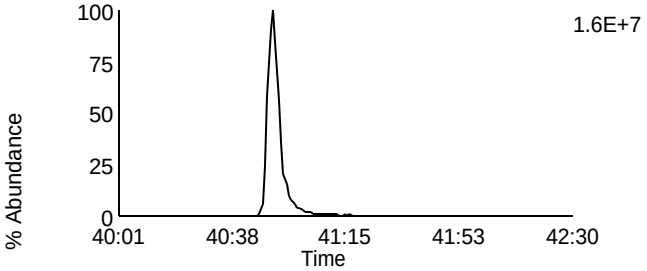
Data File: F131106A_09 G5 C11 - 469.7779
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G5 C12 - 471.7749
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G5 C12 - 471.7749
SAMP 10247063006 - BAL PASI-WI



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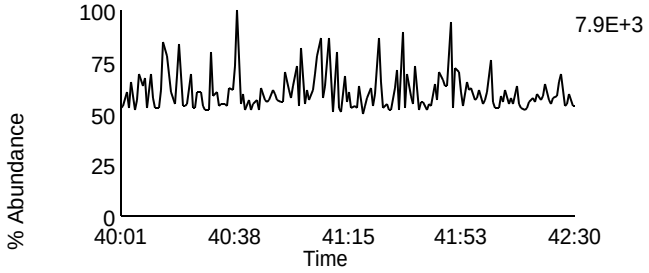
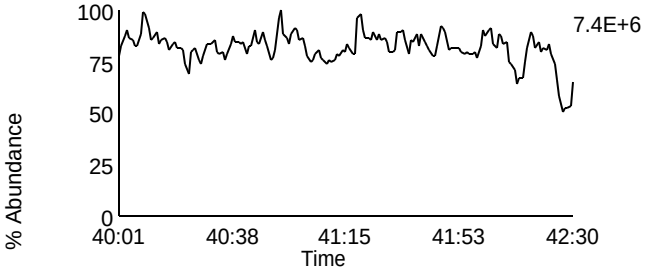
SAMP 10247063006 - BAL PASI-WI



Data File: F131106A_09 G5 C2 - 430.9728
SAMP 10247063006 - BAL PASI-WI

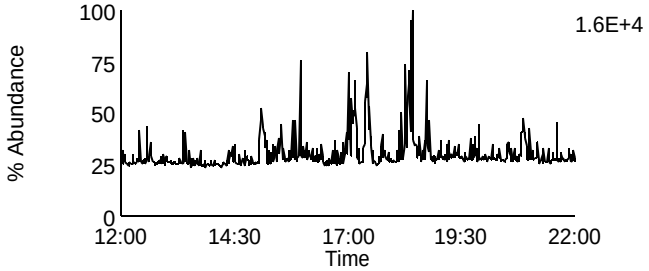


Homologue Group: Tetras

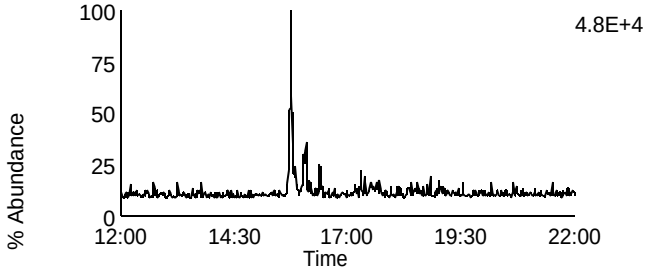
Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

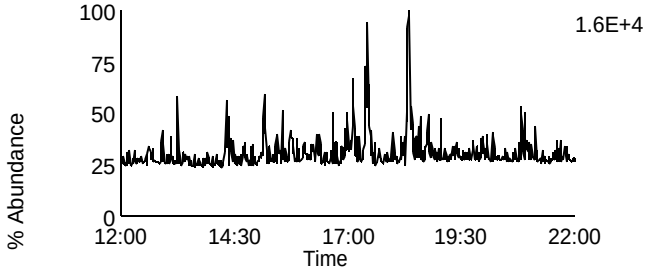
Data File: F131106A_10 G1 C1 - 303.9016
SAMP 10247063007 - BAL PASI-WI



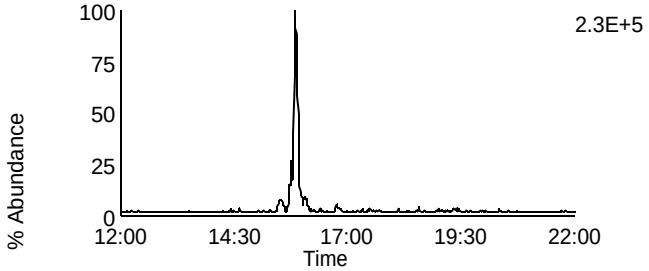
Data File: F131106A_10 G1 C7 - 319.8965
SAMP 10247063007 - BAL PASI-WI



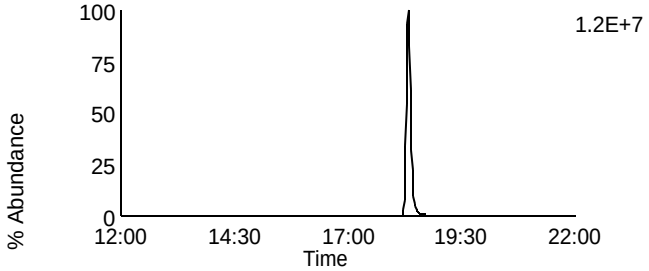
Data File: F131106A_10 G1 C2 - 305.8987
SAMP 10247063007 - BAL PASI-WI



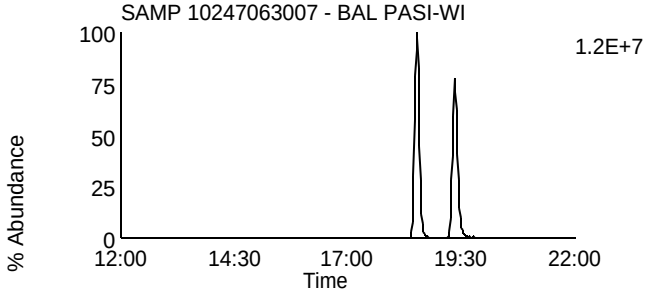
Data File: F131106A_10 G1 C8 - 321.8936
SAMP 10247063007 - BAL PASI-WI



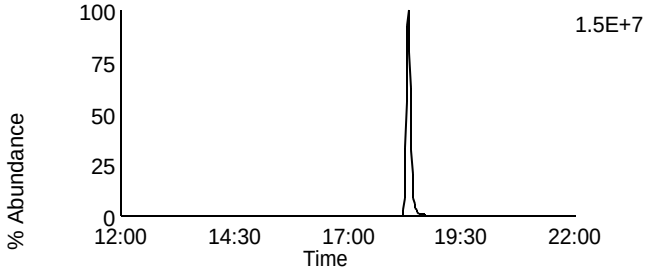
Data File: F131106A_10 G1 C3 - 315.9418
SAMP 10247063007 - BAL PASI-WI



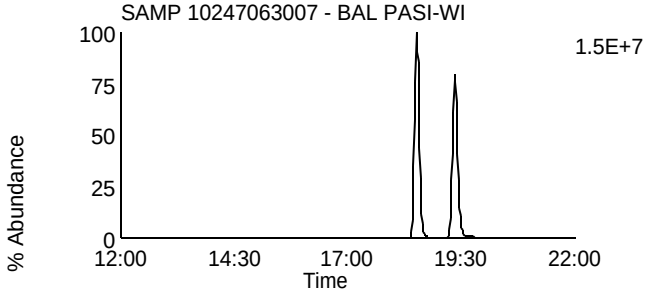
Data File: F131106A_10 G1 C10 - 331.9367
SAMP 10247063007 - BAL PASI-WI



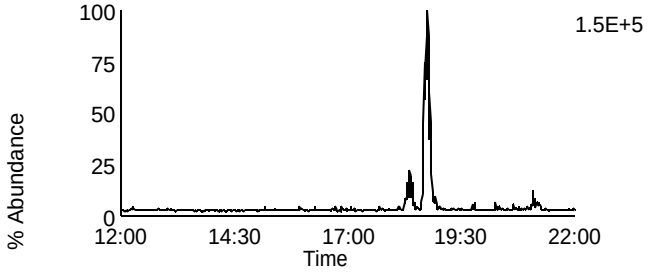
Data File: F131106A_10 G1 C4 - 317.9389
SAMP 10247063007 - BAL PASI-WI



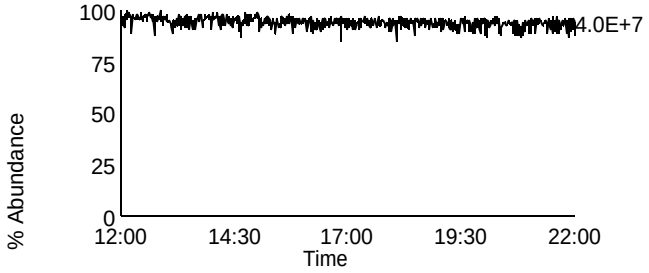
Data File: F131106A_10 G1 C11 - 333.9338
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G1 C14 - 375.8364
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G1 C5 - 318.9792
SAMP 10247063007 - BAL PASI-WI

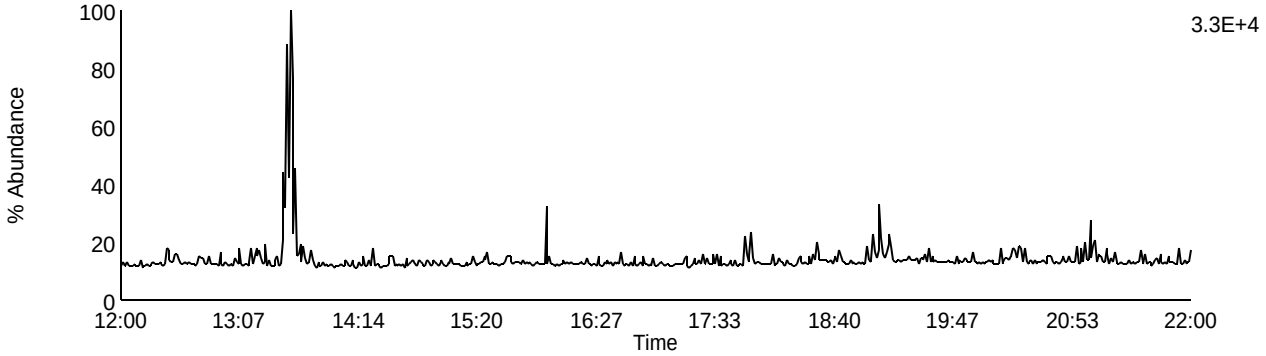


Homologue Group: Penta & Cleanup

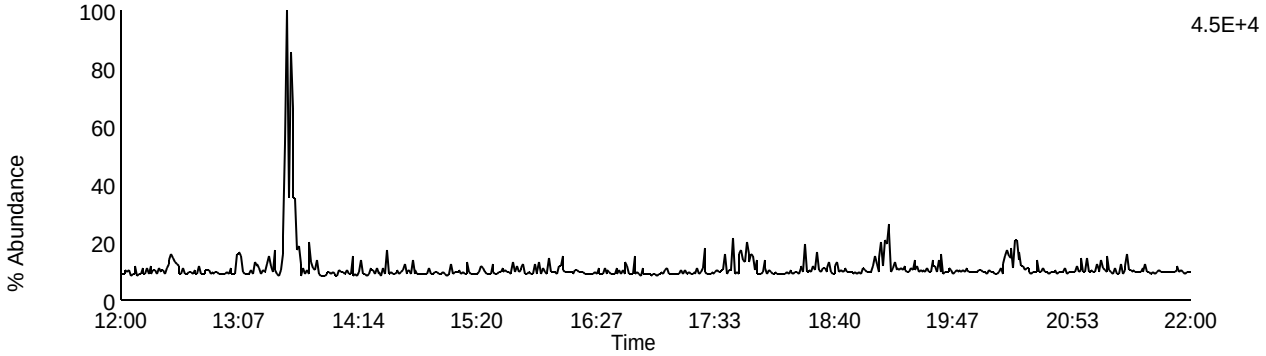
Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

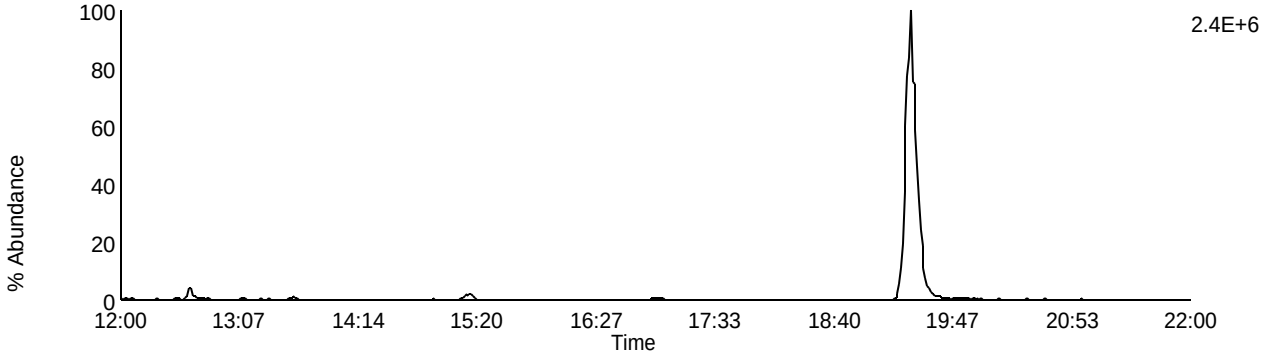
Data File: F131106A_10 G1 C12 - 339.8597
SAMP 10247063007 - BAL PASI-WI



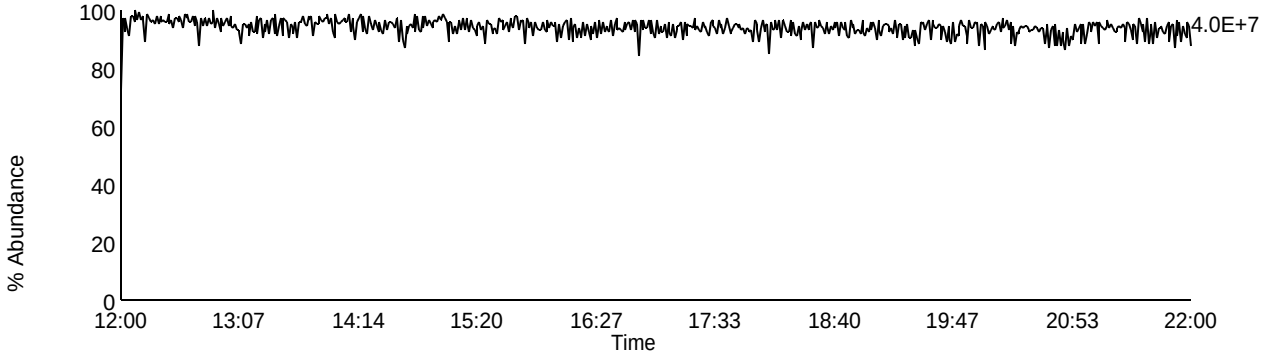
Data File: F131106A_10 G1 C13 - 341.8567
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G1 C9 - 327.8847
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G1 C5 - 318.9792
SAMP 10247063007 - BAL PASI-WI

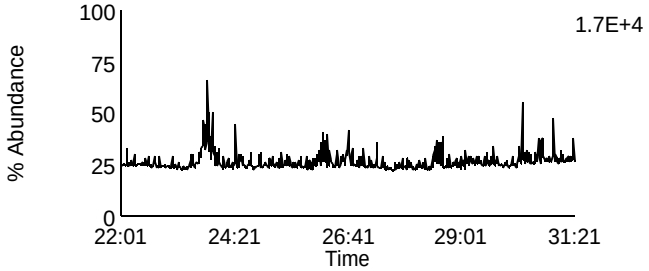


Homologue Group: Pentas

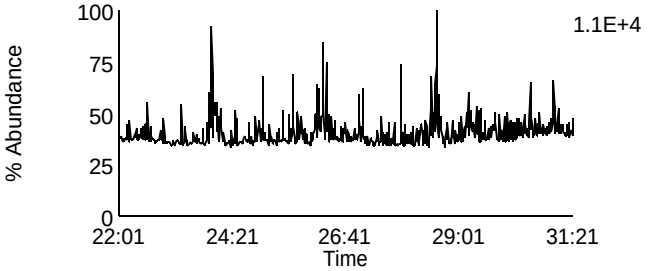
Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

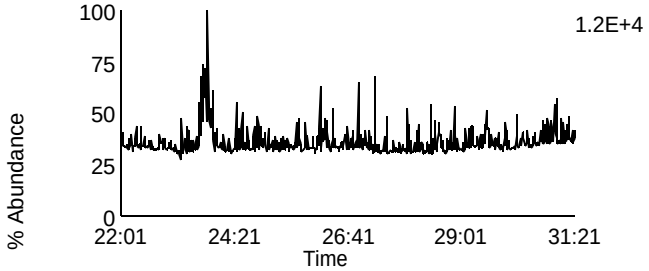
Data File: F131106A_10 G2 C1 - 339.8597
SAMP 10247063007 - BAL PASI-WI



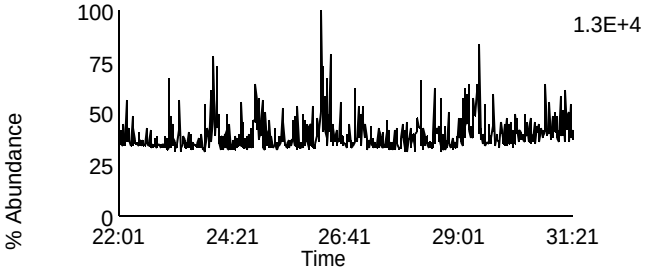
Data File: F131106A_10 G2 C4 - 353.8576
SAMP 10247063007 - BAL PASI-WI



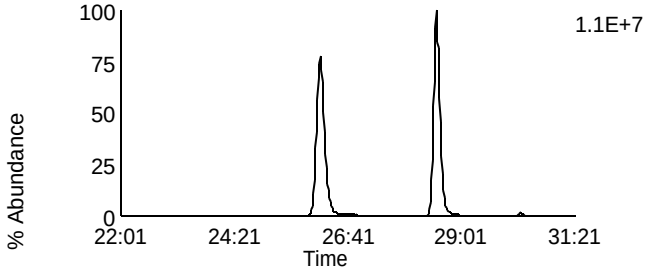
Data File: F131106A_10 G2 C2 - 341.8567
SAMP 10247063007 - BAL PASI-WI



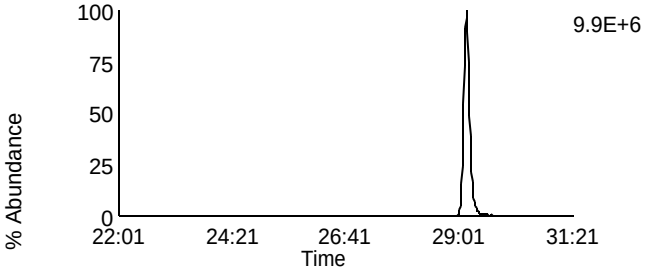
Data File: F131106A_10 G2 C8 - 355.8546
SAMP 10247063007 - BAL PASI-WI



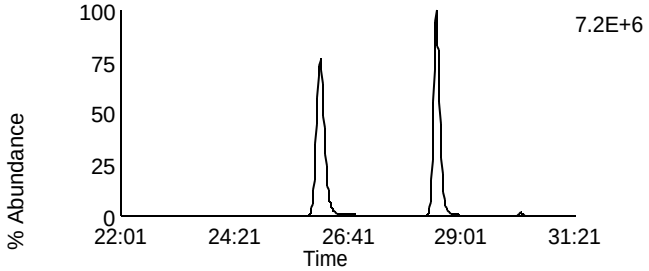
Data File: F131106A_10 G2 C3 - 351.8999
SAMP 10247063007 - BAL PASI-WI



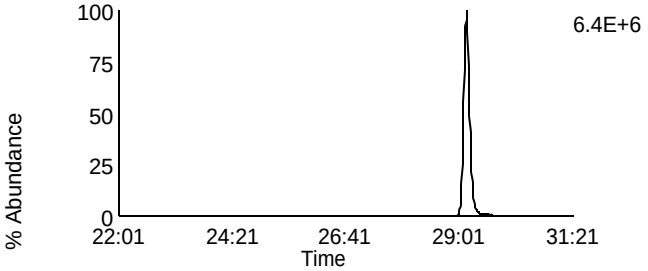
Data File: F131106A_10 G2 C10 - 367.8948
SAMP 10247063007 - BAL PASI-WI



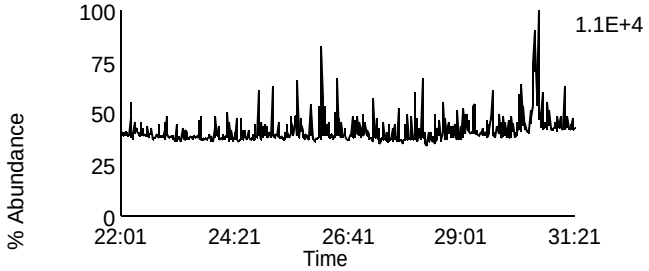
Data File: F131106A_10 G2 C5 - 353.8969
SAMP 10247063007 - BAL PASI-WI



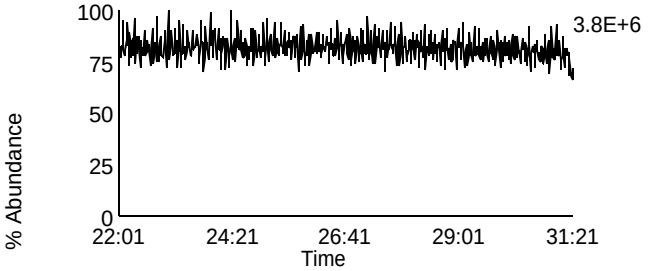
Data File: F131106A_10 G2 C11 - 369.8918
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G2 C12 - 409.7974
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G2 C6 - 354.9792
SAMP 10247063007 - BAL PASI-WI

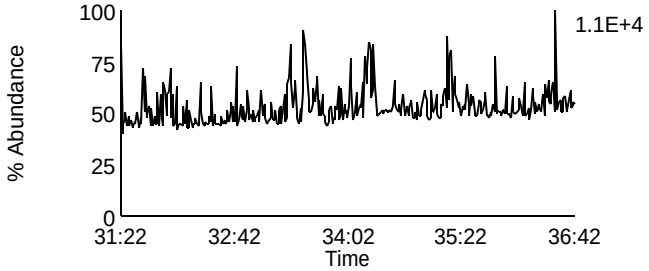


Homologue Group: Hexas

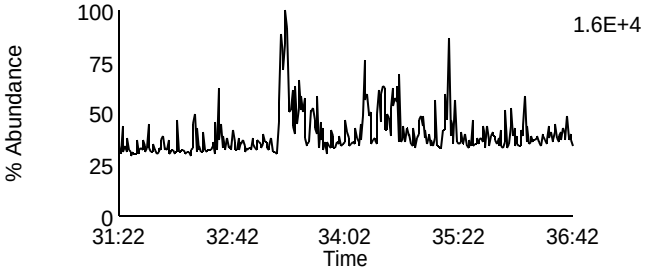
Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

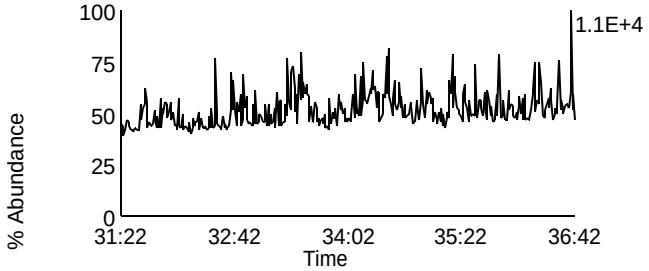
Data File: F131106A_10 G3 C1 - 373.8207
SAMP 10247063007 - BAL PASI-WI



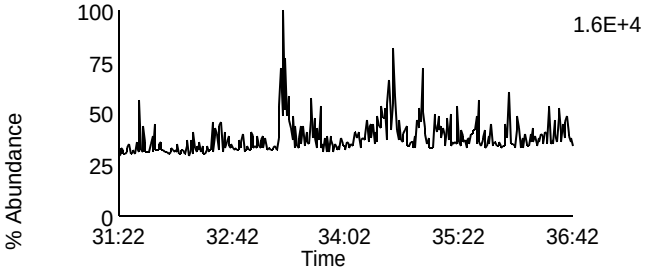
Data File: F131106A_10 G3 C7 - 389.8156
SAMP 10247063007 - BAL PASI-WI



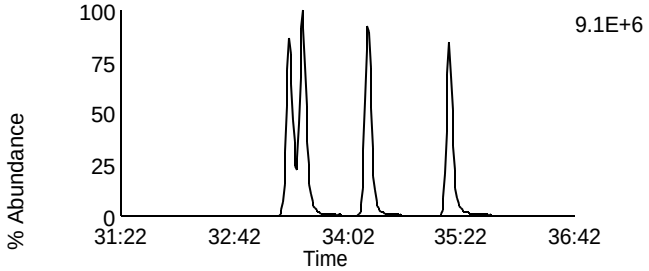
Data File: F131106A_10 G3 C2 - 375.8178
SAMP 10247063007 - BAL PASI-WI



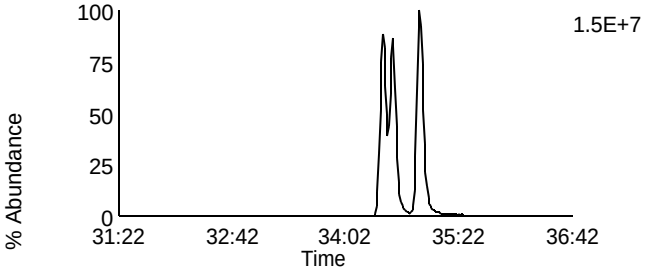
Data File: F131106A_10 G3 C8 - 391.8127
SAMP 10247063007 - BAL PASI-WI



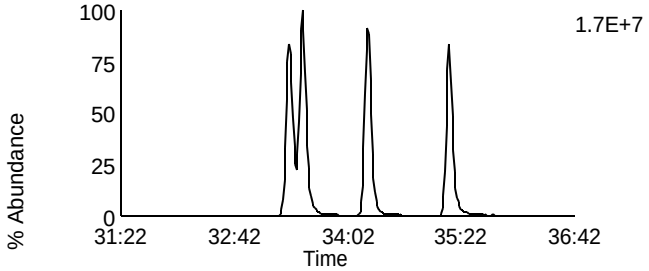
Data File: F131106A_10 G3 C5 - 383.8639
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G3 C9 - 401.8559
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G3 C6 - 385.861
SAMP 10247063007 - BAL PASI-WI



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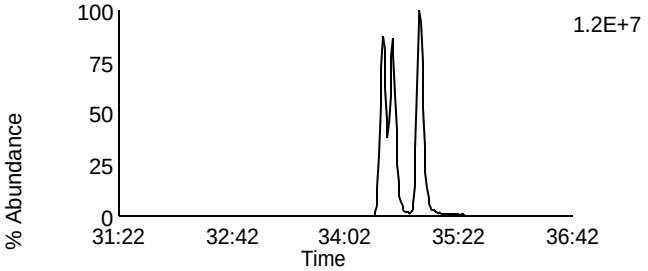
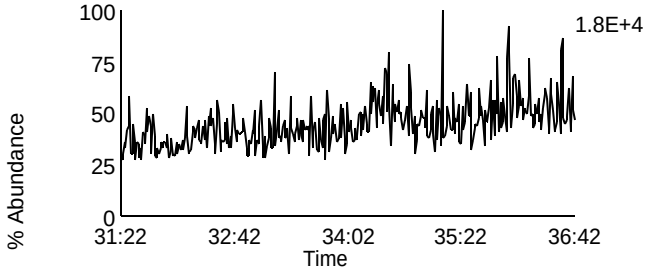
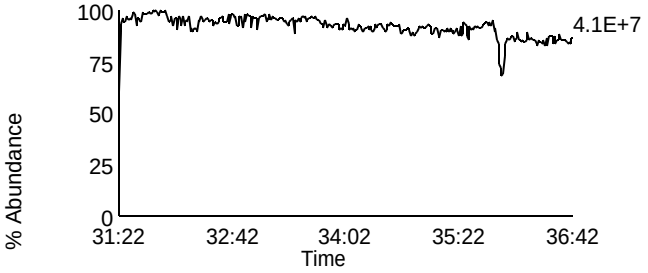
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G3 C11 - 445.7555
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G3 C3 - 380.976
SAMP 10247063007 - BAL PASI-WI

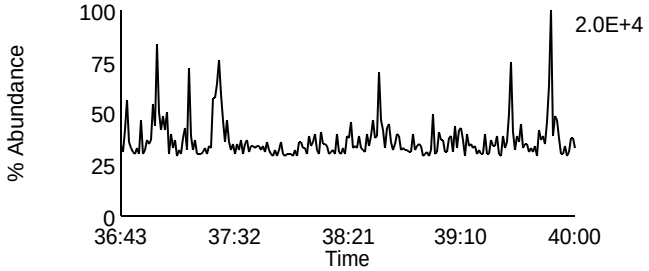


Homologue Group: Heptas

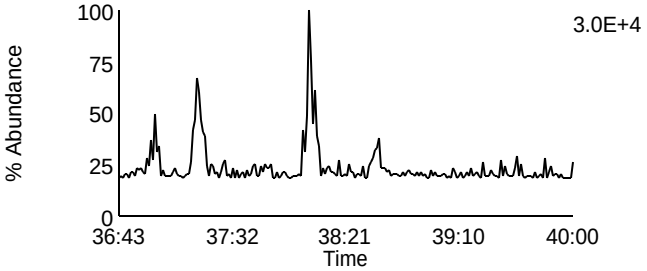
Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

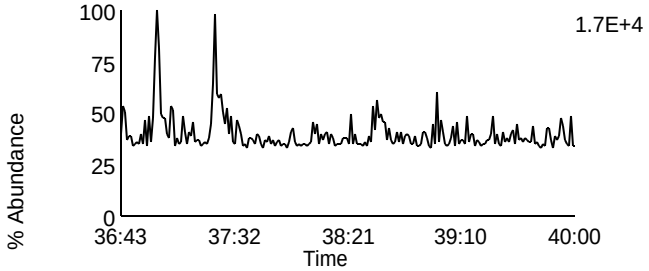
Data File: F131106A_10 G4 C3 - 407.7818
SAMP 10247063007 - BAL PASI-WI



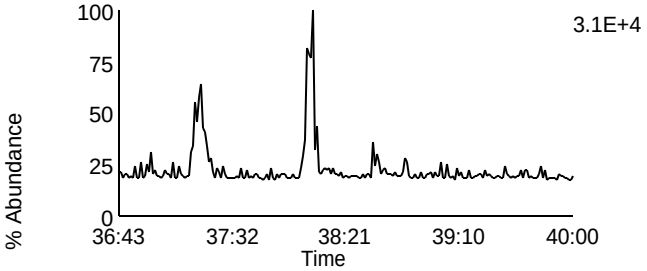
Data File: F131106A_10 G4 C8 - 423.7767
SAMP 10247063007 - BAL PASI-WI



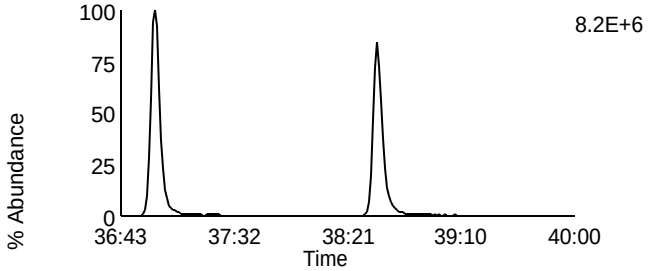
Data File: F131106A_10 G4 C4 - 409.7788
SAMP 10247063007 - BAL PASI-WI



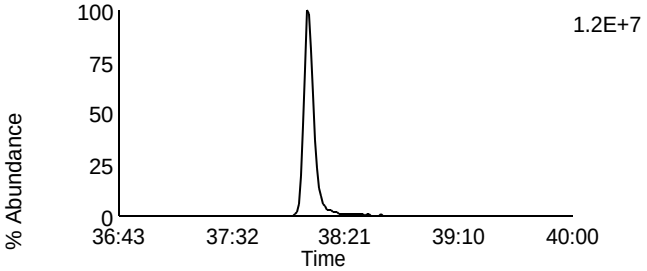
Data File: F131106A_10 G4 C9 - 425.7737
SAMP 10247063007 - BAL PASI-WI



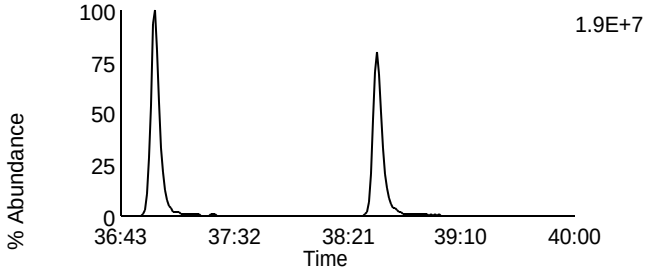
Data File: F131106A_10 G4 C6 - 417.825
SAMP 10247063007 - BAL PASI-WI



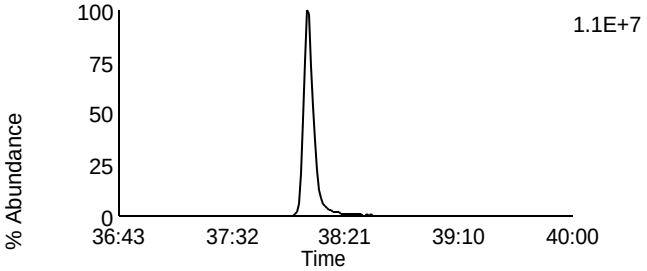
Data File: F131106A_10 G4 C11 - 435.8169
SAMP 10247063007 - BAL PASI-WI



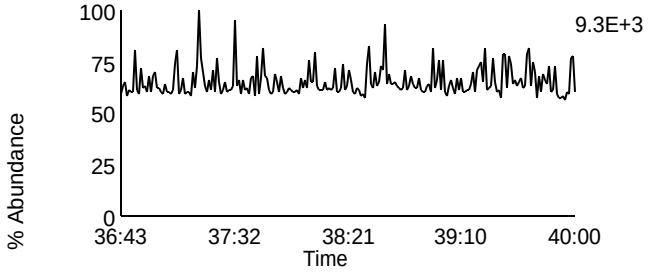
Data File: F131106A_10 G4 C7 - 419.822
SAMP 10247063007 - BAL PASI-WI



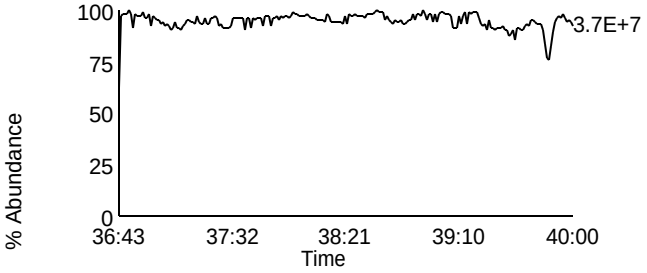
Data File: F131106A_10 G4 C12 - 437.814
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G4 C13 - 479.7165
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G4 C1 - 380.976
SAMP 10247063007 - BAL PASI-WI

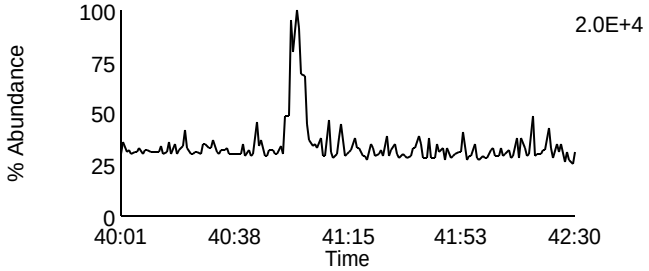


Homologue Group: Octas

Data File Name: F131106A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063007 - BAL PASI-WI

Lab Sample ID: 10247063007
Client Sample ID: MAK015O
Instrument: 10MSHR05 (F)

Data File: F131106A_10 G5 C4 - 441.7428
SAMP 10247063007 - BAL PASI-WI



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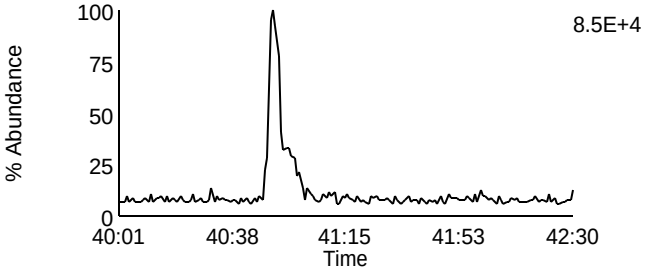
SAMP 10247063007 - BAL PASI-WI



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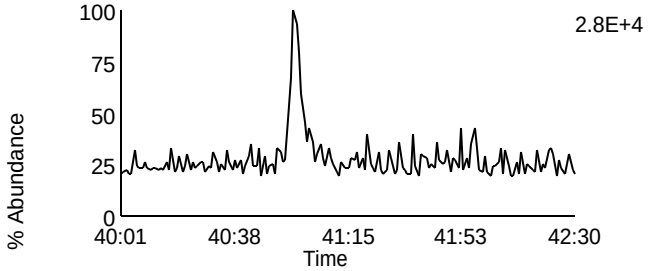
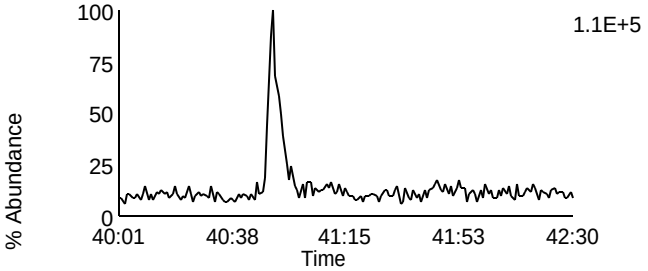
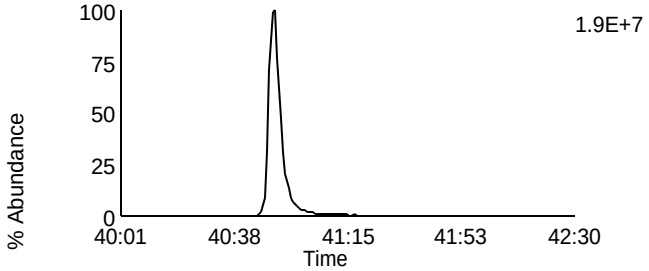
SAMP 10247063007 - BAL PASI-WI



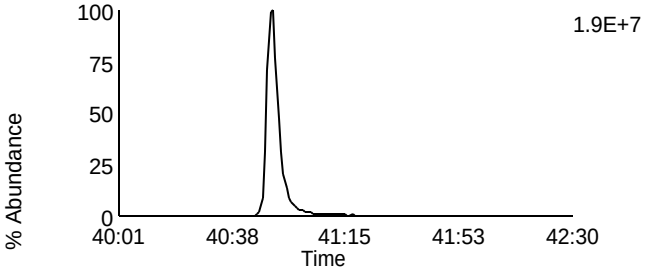
Data File: F131106A_10 G5 C9 - 459.7347
SAMP 10247063007 - BAL PASI-WI



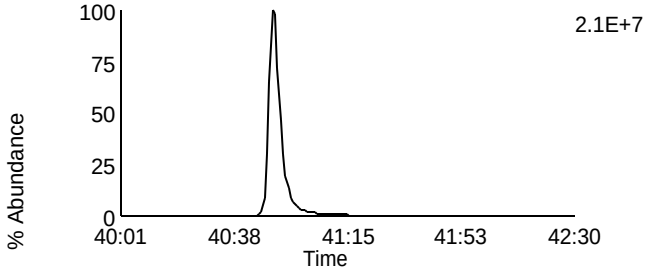
Data File: F131106A_10 G5 C11 - 469.7779
SAMP 10247063007 - BAL PASI-WI



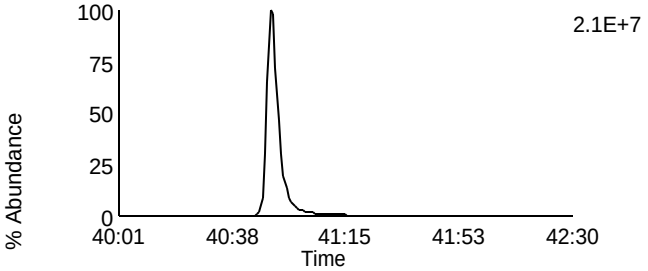
Data File: F131106A_10 G5 C11 - 469.7779
SAMP 10247063007 - BAL PASI-WI



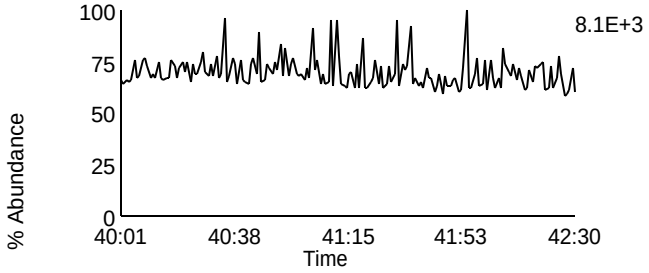
Data File: F131106A_10 G5 C12 - 471.7749
SAMP 10247063007 - BAL PASI-WI



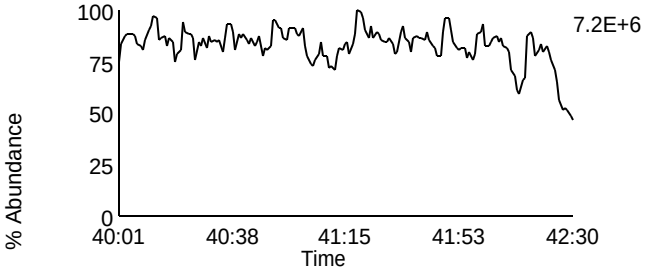
Data File: F131106A_10 G5 C12 - 471.7749
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G5 C13 - 513.6775
SAMP 10247063007 - BAL PASI-WI



Data File: F131106A_10 G5 C2 - 430.9728
SAMP 10247063007 - BAL PASI-WI

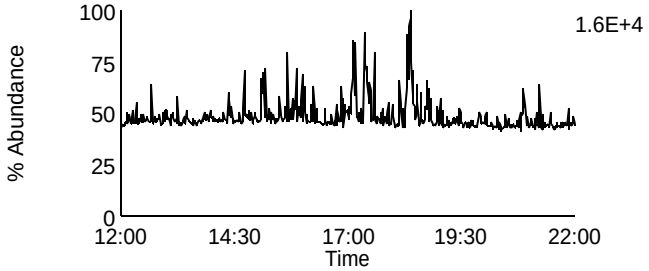


Homologue Group: Tetras

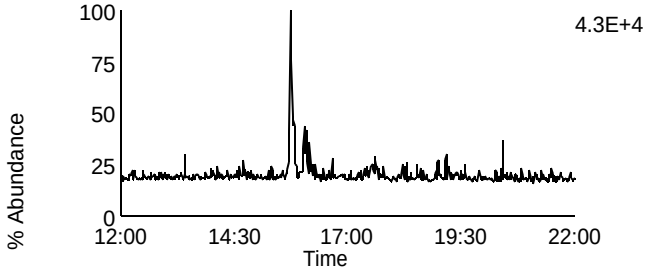
Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

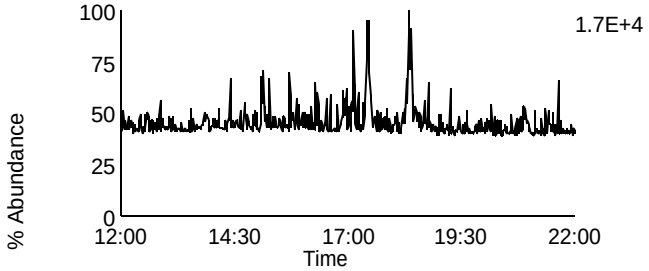
Data File: F131107A_07 G1 C1 - 303.9016
SAMP 10247063008 - SMT PASI-WI



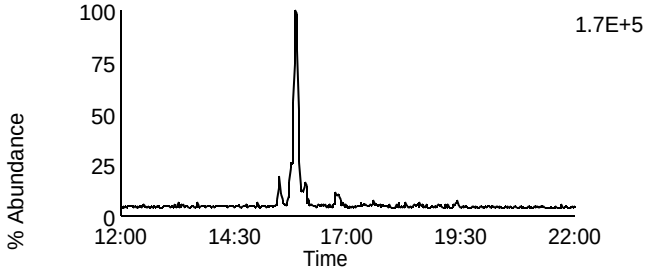
Data File: F131107A_07 G1 C7 - 319.8965
SAMP 10247063008 - SMT PASI-WI



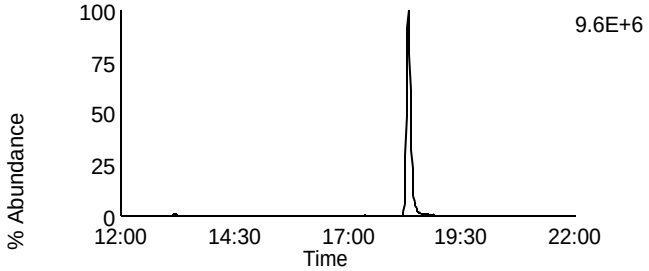
Data File: F131107A_07 G1 C2 - 305.8987
SAMP 10247063008 - SMT PASI-WI



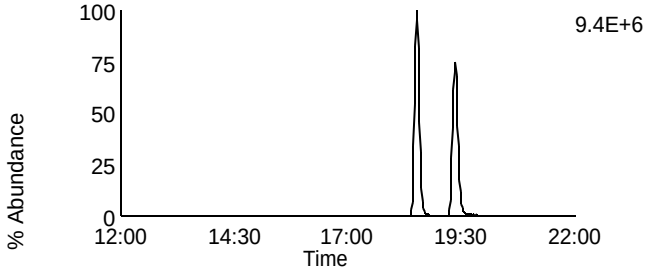
Data File: F131107A_07 G1 C8 - 321.8936
SAMP 10247063008 - SMT PASI-WI



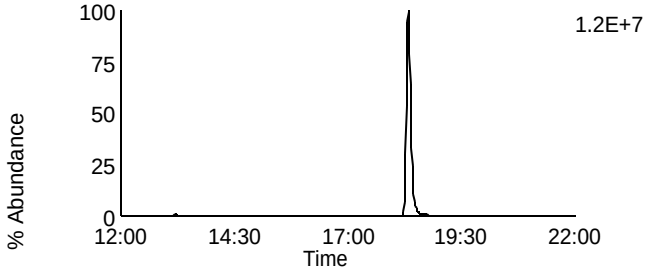
Data File: F131107A_07 G1 C3 - 315.9418
SAMP 10247063008 - SMT PASI-WI



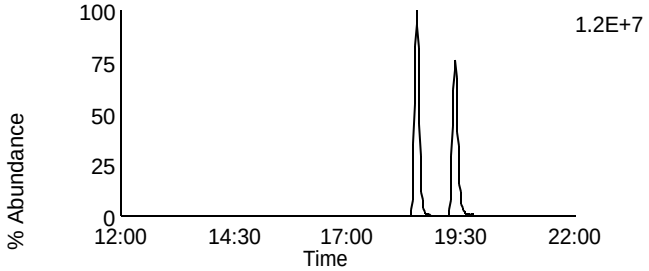
Data File: F131107A_07 G1 C10 - 331.9367
SAMP 10247063008 - SMT PASI-WI



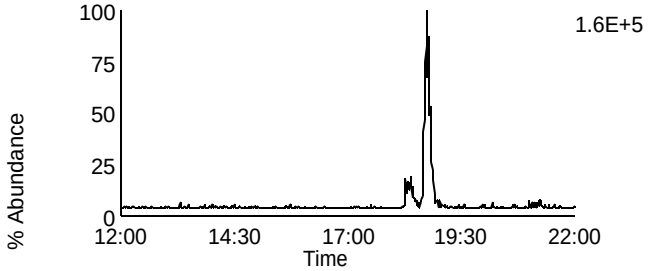
Data File: F131107A_07 G1 C4 - 317.9389
SAMP 10247063008 - SMT PASI-WI



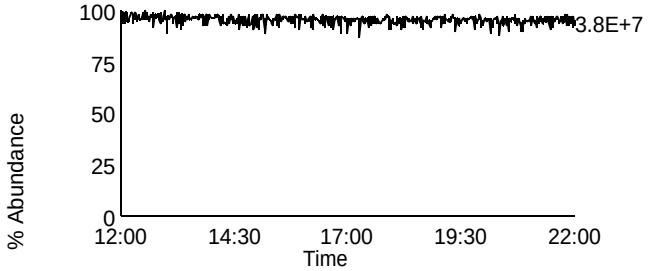
Data File: F131107A_07 G1 C11 - 333.9338
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G1 C14 - 375.8364
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G1 C5 - 318.9792
SAMP 10247063008 - SMT PASI-WI

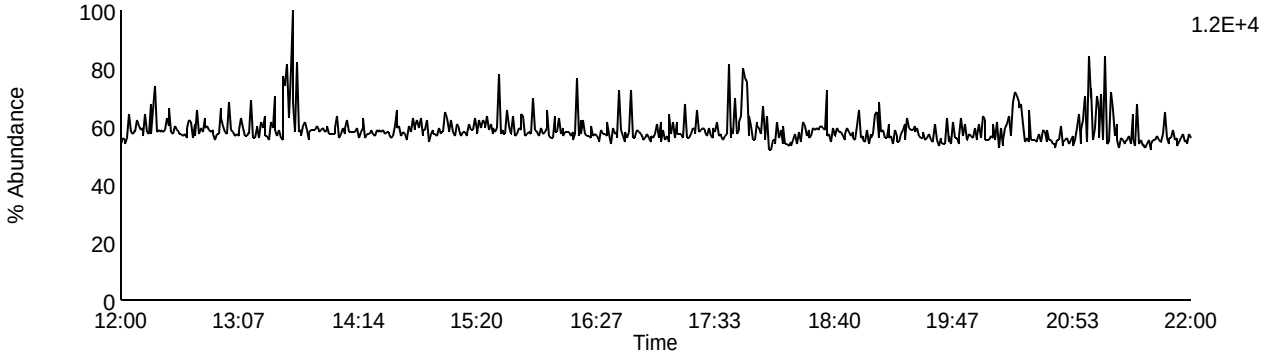


Homologue Group: Penta & Cleanup

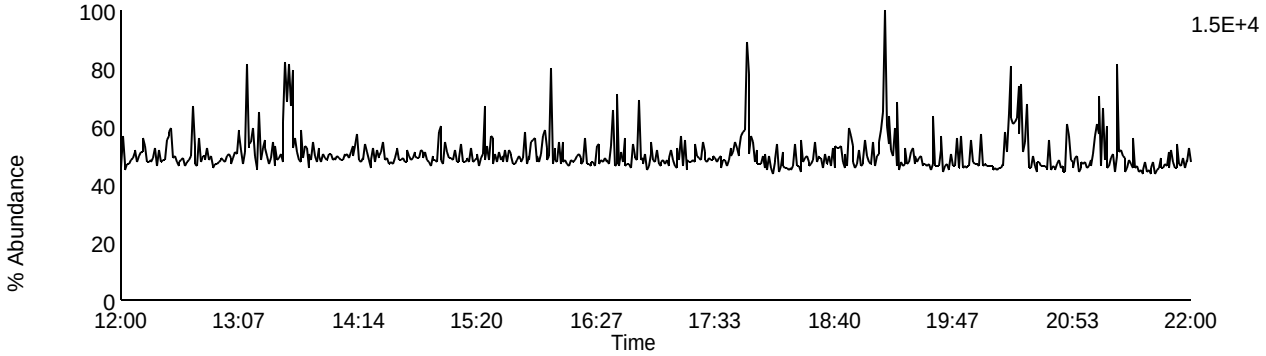
Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

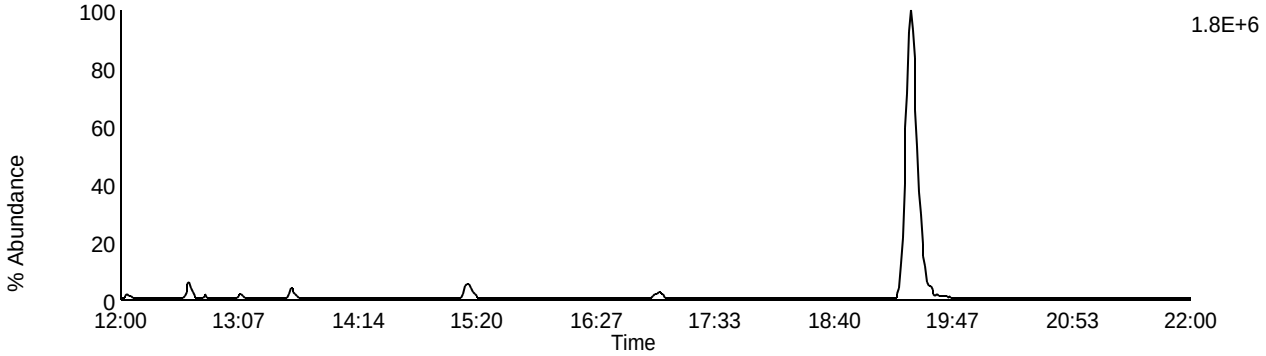
Data File: F131107A_07 G1 C12 - 339.8597
SAMP 10247063008 - SMT PASI-WI



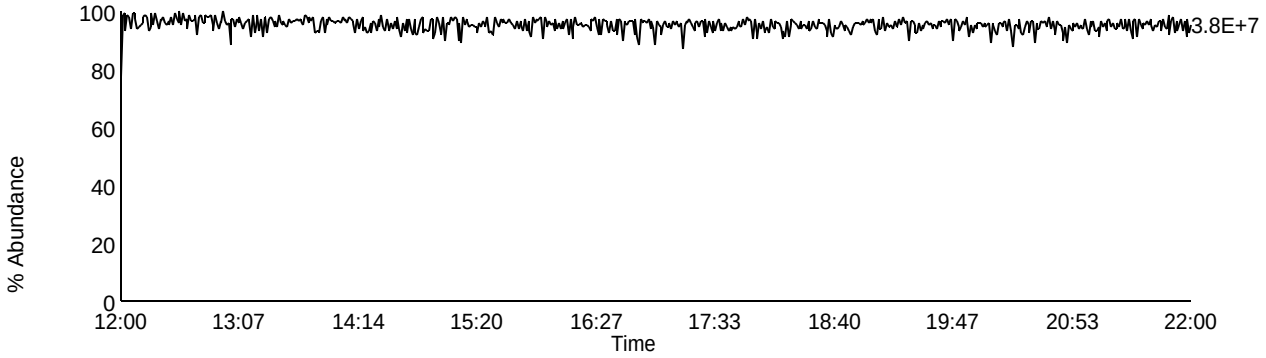
Data File: F131107A_07 G1 C13 - 341.8567
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G1 C9 - 327.8847
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G1 C5 - 318.9792
SAMP 10247063008 - SMT PASI-WI

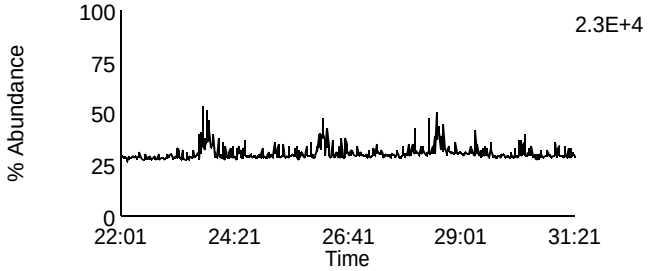


Homologue Group: Pentas

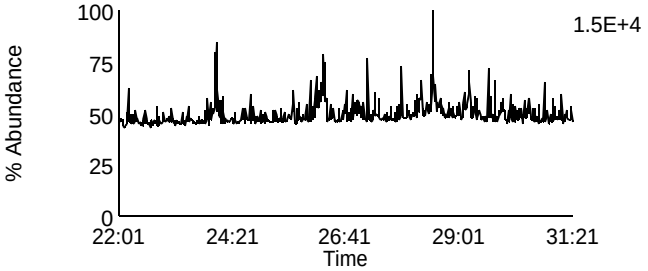
Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

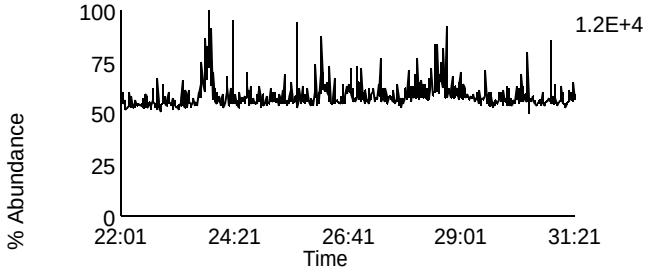
Data File: F131107A_07 G2 C1 - 339.8597
SAMP 10247063008 - SMT PASI-WI



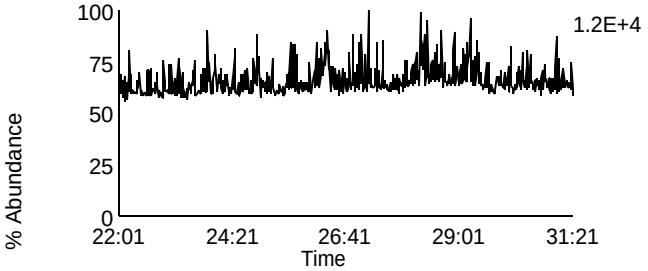
Data File: F131107A_07 G2 C4 - 353.8576
SAMP 10247063008 - SMT PASI-WI



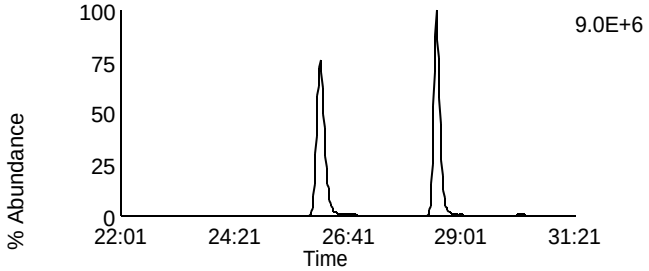
Data File: F131107A_07 G2 C2 - 341.8567
SAMP 10247063008 - SMT PASI-WI



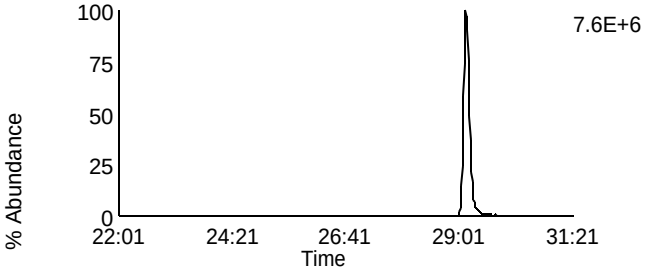
Data File: F131107A_07 G2 C8 - 355.8546
SAMP 10247063008 - SMT PASI-WI



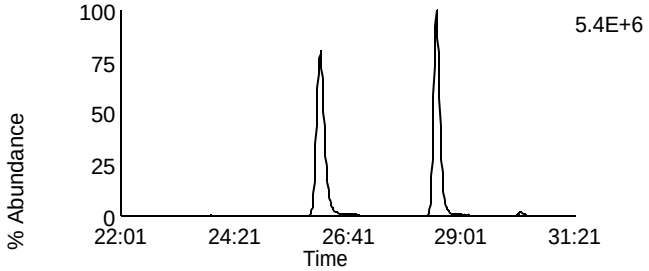
Data File: F131107A_07 G2 C3 - 351.8999
SAMP 10247063008 - SMT PASI-WI



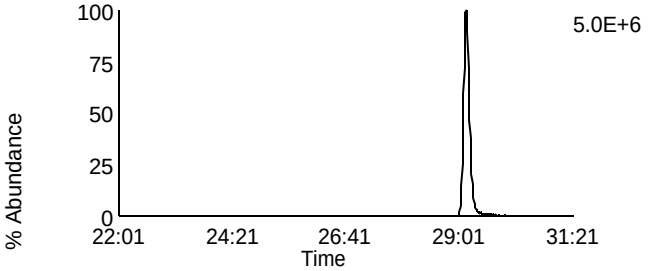
Data File: F131107A_07 G2 C10 - 367.8948
SAMP 10247063008 - SMT PASI-WI



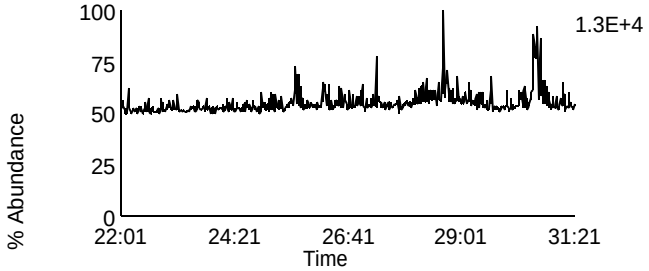
Data File: F131107A_07 G2 C5 - 353.8969
SAMP 10247063008 - SMT PASI-WI



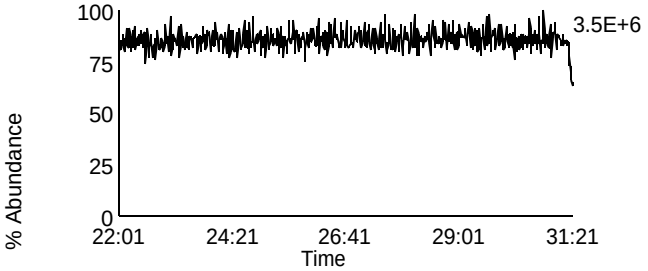
Data File: F131107A_07 G2 C11 - 369.8918
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G2 C12 - 409.7974
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G2 C6 - 354.9792
SAMP 10247063008 - SMT PASI-WI

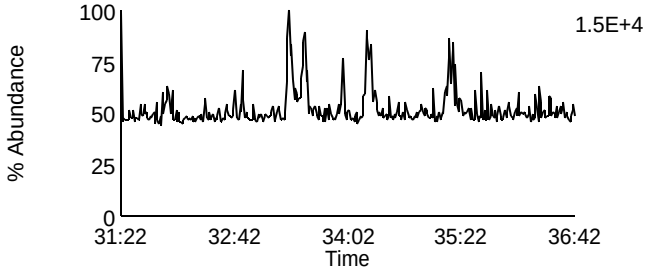


Homologue Group: Hexas

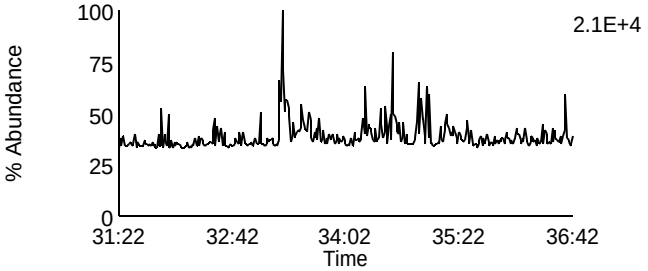
Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

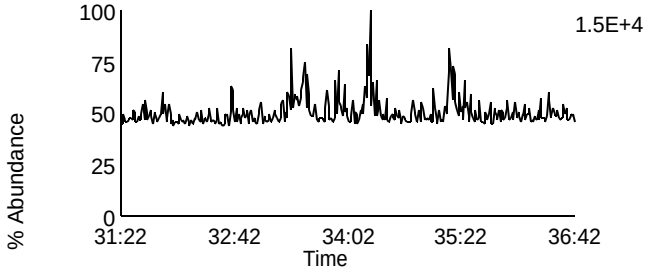
Data File: F131107A_07 G3 C1 - 373.8207
SAMP 10247063008 - SMT PASI-WI



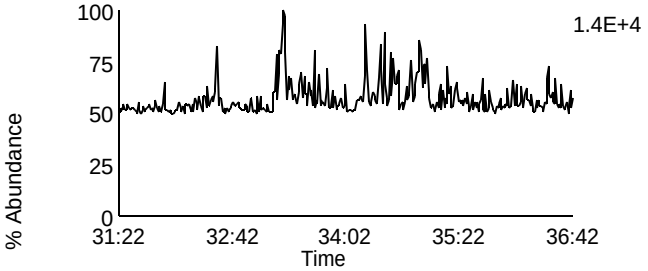
Data File: F131107A_07 G3 C7 - 389.8156
SAMP 10247063008 - SMT PASI-WI



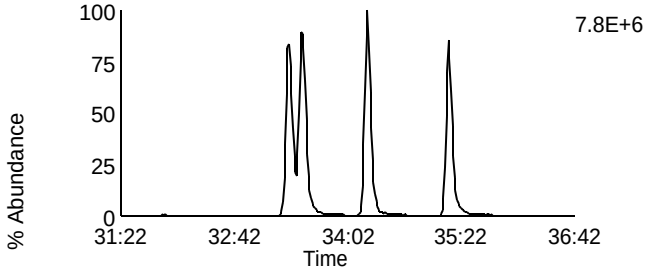
Data File: F131107A_07 G3 C2 - 375.8178
SAMP 10247063008 - SMT PASI-WI



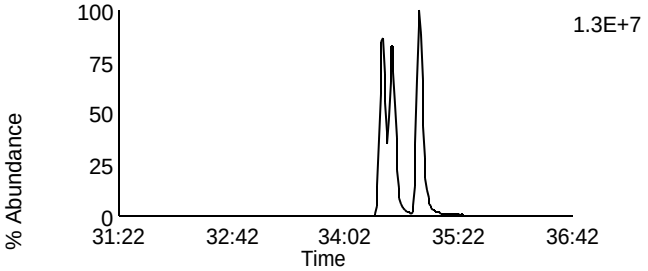
Data File: F131107A_07 G3 C8 - 391.8127
SAMP 10247063008 - SMT PASI-WI



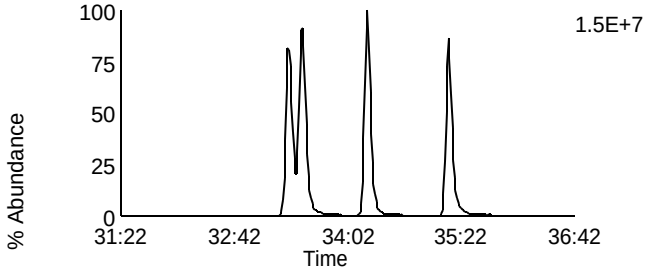
Data File: F131107A_07 G3 C5 - 383.8639
SAMP 10247063008 - SMT PASI-WI



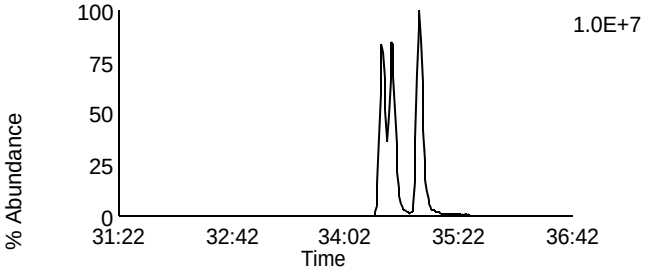
Data File: F131107A_07 G3 C9 - 401.8559
SAMP 10247063008 - SMT PASI-WI



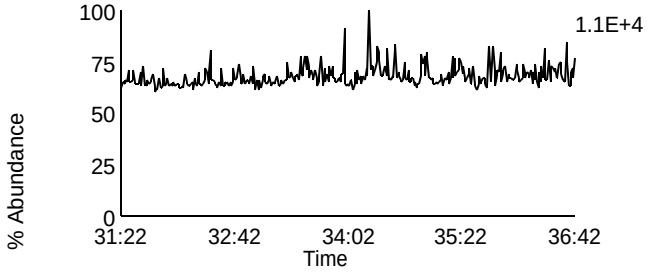
Data File: F131107A_07 G3 C6 - 385.861
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G3 C10 - 403.8529
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G3 C11 - 445.7555
SAMP 10247063008 - SMT PASI-WI



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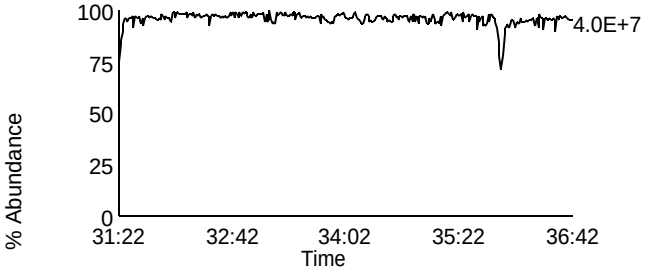
SAMP 10247063008 - SMT PASI-WI

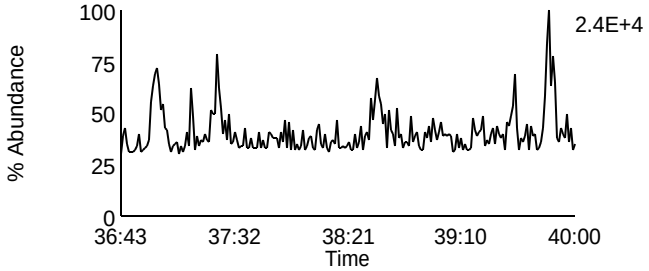


Homologue Group: Heptas

Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

Data File: F131107A_07 G4 C3 - 407.7818
SAMP 10247063008 - SMT PASI-WI



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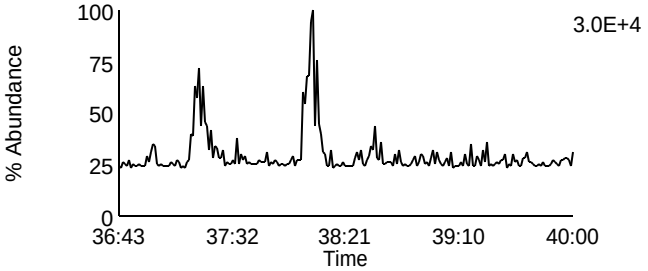
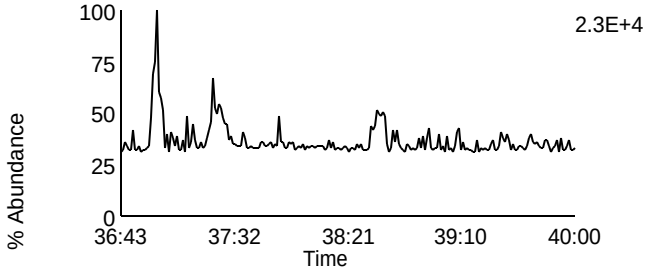
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G4 C4 - 409.7788
SAMP 10247063008 - SMT PASI-WI



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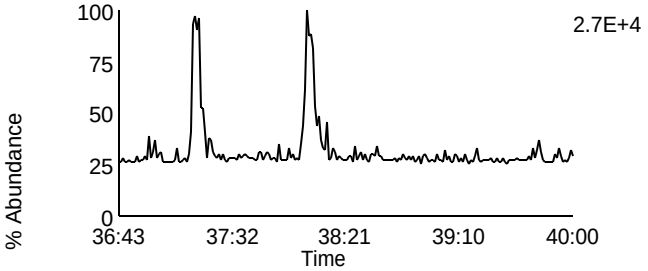
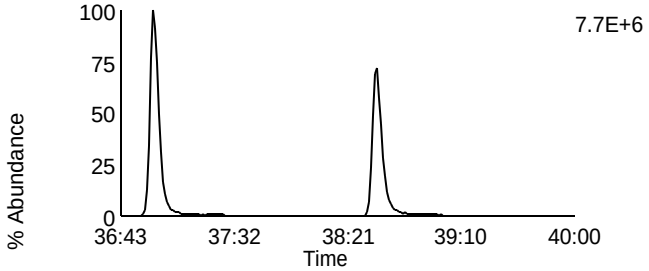
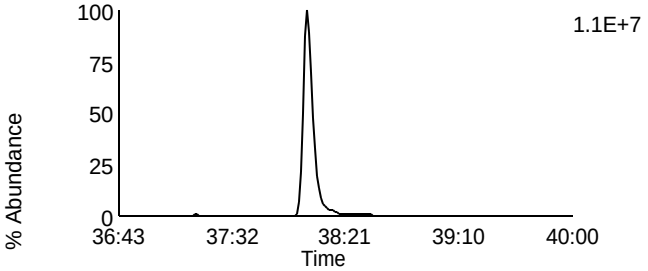
SAMP 10247063008 - SMT PASI-WI



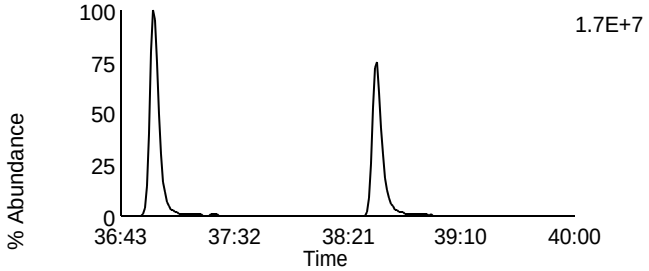
Data File: F131107A_07 G4 C6 - 417.825
SAMP 10247063008 - SMT PASI-WI



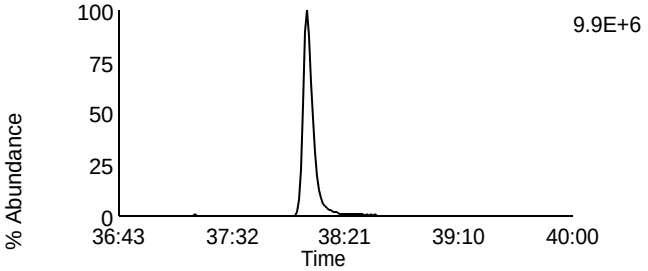
Data File: F131107A_07 G4 C11 - 435.8169
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G4 C7 - 419.822
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G4 C12 - 437.814
SAMP 10247063008 - SMT PASI-WI



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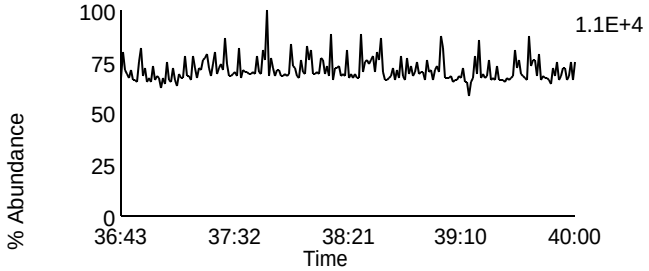
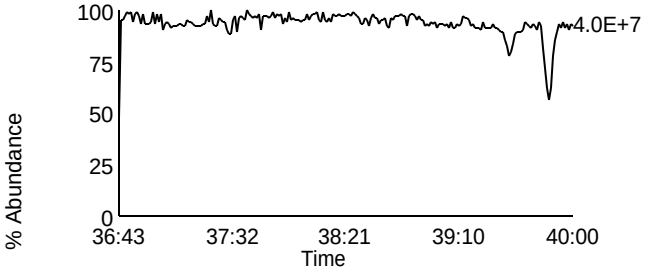
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G4 C1 - 380.976
SAMP 10247063008 - SMT PASI-WI

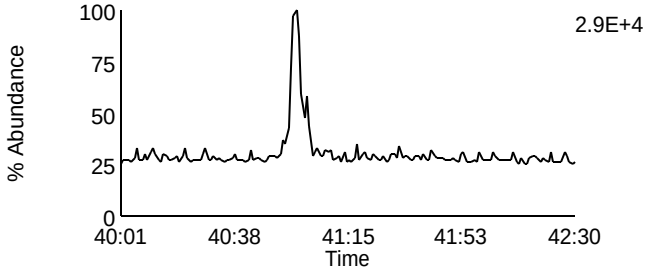


Homologue Group: Octas

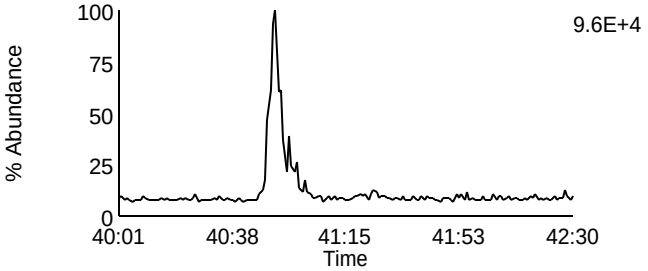
Data File Name: F131107A_07
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063008 - SMT PASI-WI

Lab Sample ID: 10247063008
Client Sample ID: MAK016O
Instrument: 10MSHR05 (F)

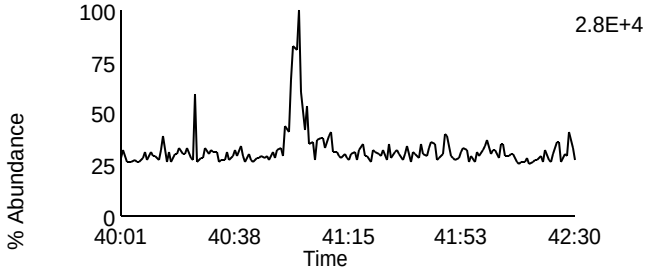
Data File: F131107A_07 G5 C4 - 441.7428
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G5 C8 - 457.7377
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G5 C5 - 443.7398
SAMP 10247063008 - SMT PASI-WI



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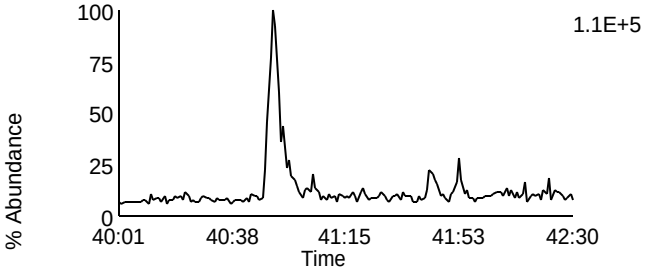
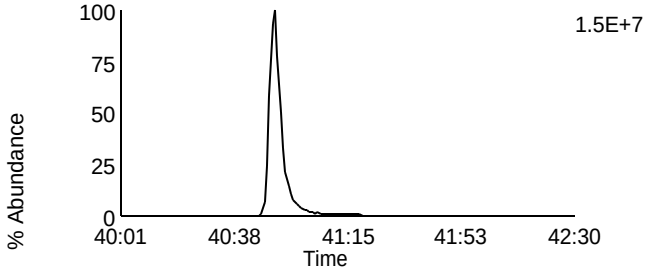
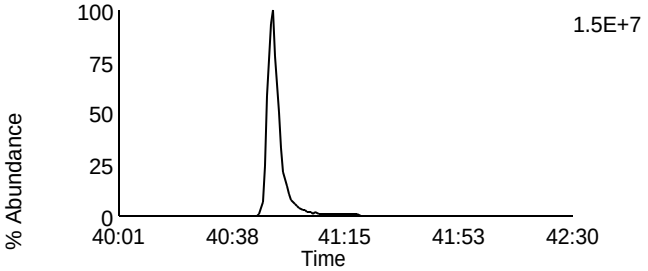
SAMP 10247063008 - SMT PASI-WI



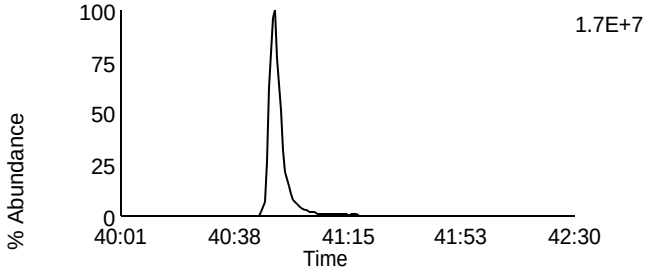
Data File: F131107A_07 G5 C11 - 469.7779
SAMP 10247063008 - SMT PASI-WI



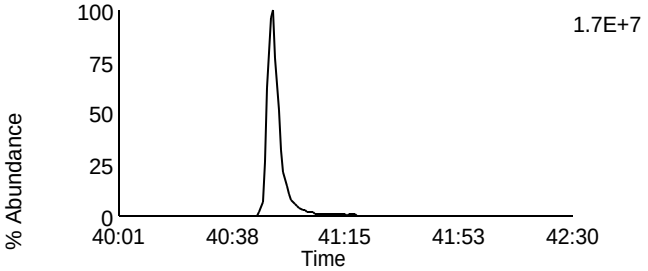
Data File: F131107A_07 G5 C11 - 469.7779
SAMP 10247063008 - SMT PASI-WI



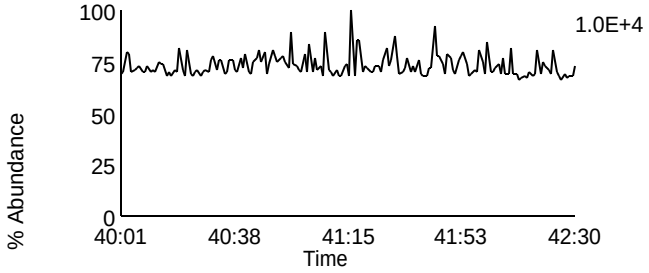
Data File: F131107A_07 G5 C12 - 471.7749
SAMP 10247063008 - SMT PASI-WI



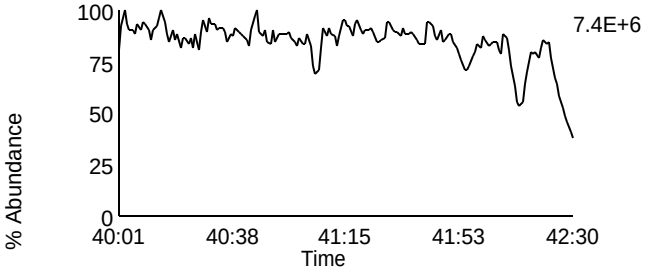
Data File: F131107A_07 G5 C12 - 471.7749
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G5 C13 - 513.6775
SAMP 10247063008 - SMT PASI-WI



Data File: F131107A_07 G5 C2 - 430.9728
SAMP 10247063008 - SMT PASI-WI

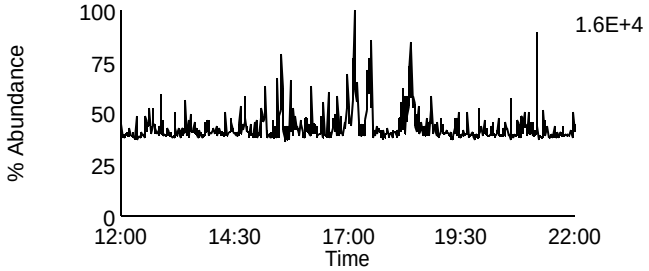


Homologue Group: Tetras

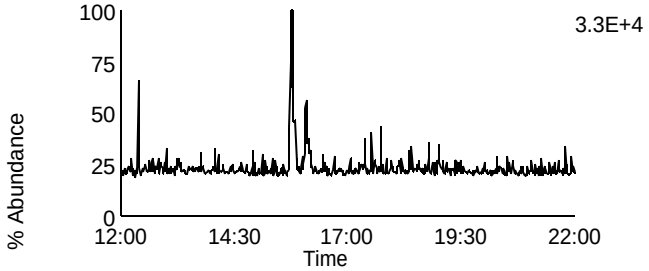
Data File Name: F131107A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063009 - SMT PASI-WI

Lab Sample ID: 10247063009
Client Sample ID: MAK017O
Instrument: 10MSHR05 (F)

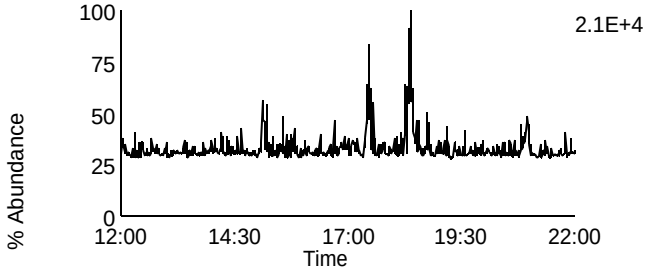
Data File: F131107A_08 G1 C1 - 303.9016
SAMP 10247063009 - SMT PASI-WI



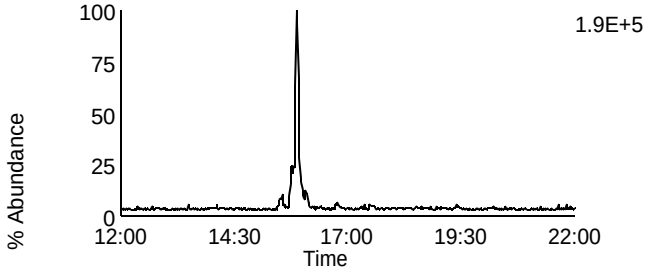
Data File: F131107A_08 G1 C7 - 319.8965
SAMP 10247063009 - SMT PASI-WI



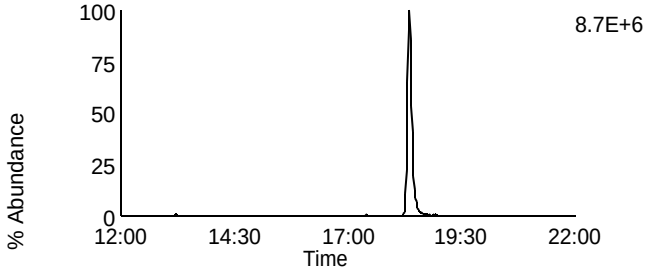
Data File: F131107A_08 G1 C2 - 305.8987
SAMP 10247063009 - SMT PASI-WI



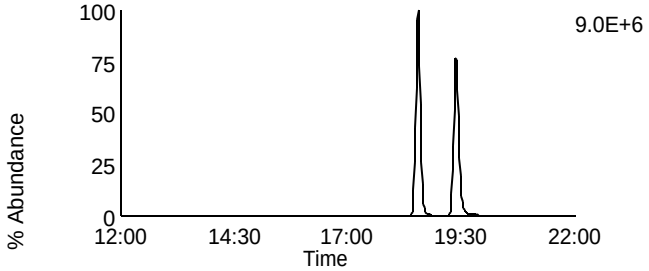
Data File: F131107A_08 G1 C8 - 321.8936
SAMP 10247063009 - SMT PASI-WI



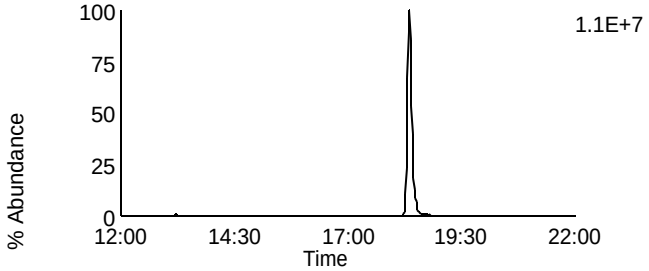
Data File: F131107A_08 G1 C3 - 315.9418
SAMP 10247063009 - SMT PASI-WI



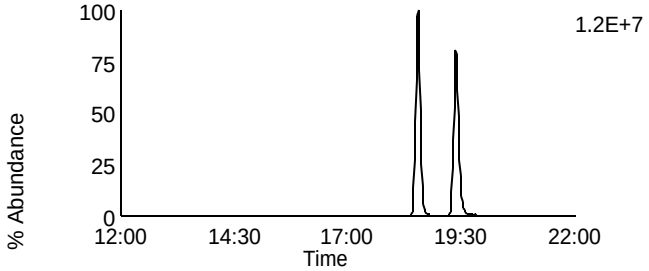
Data File: F131107A_08 G1 C10 - 331.9367
SAMP 10247063009 - SMT PASI-WI



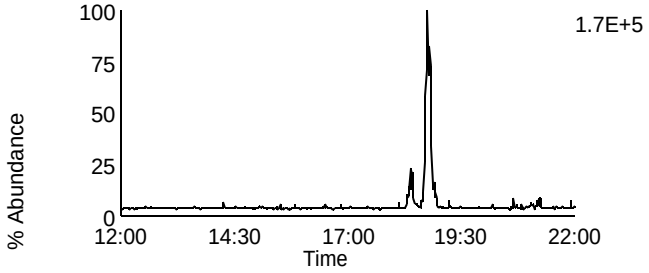
Data File: F131107A_08 G1 C4 - 317.9389
SAMP 10247063009 - SMT PASI-WI



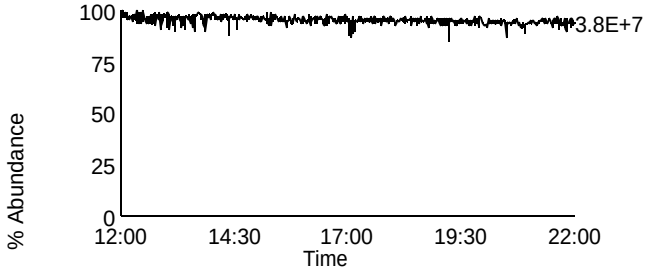
Data File: F131107A_08 G1 C11 - 333.9338
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G1 C14 - 375.8364
SAMP 10247063009 - SMT PASI-WI



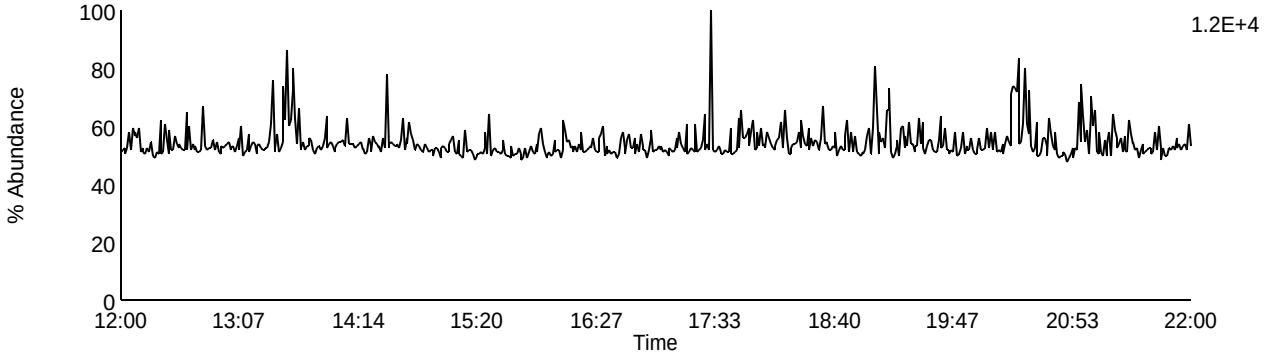
Data File: F131107A_08 G1 C5 - 318.9792
SAMP 10247063009 - SMT PASI-WI



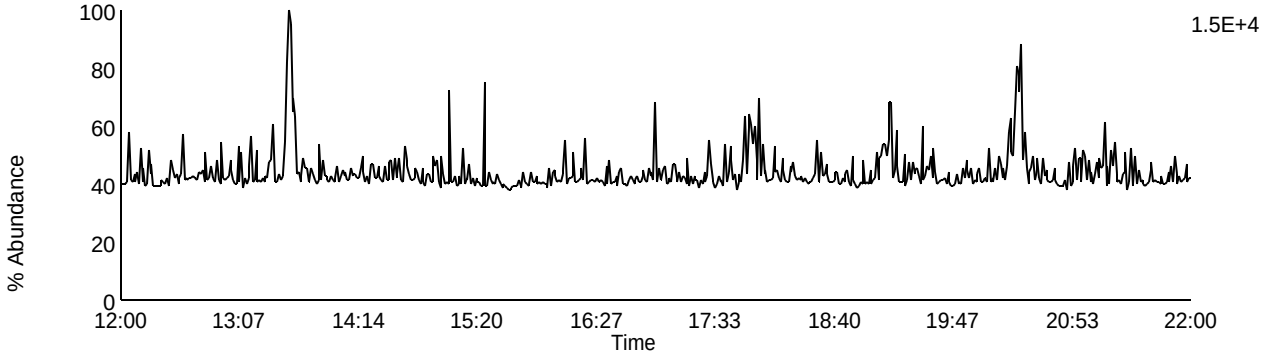
Homologue Group: Penta & Cleanup

Data File Name: F131107A_08	Lab Sample ID: 10247063009
Date Acquired: 11/7/2013	Client Sample ID: MAK017O
Sample Description: SAMP 10247063009 - SMT PASI-WI	Instrument: 10MSHR05 (F)

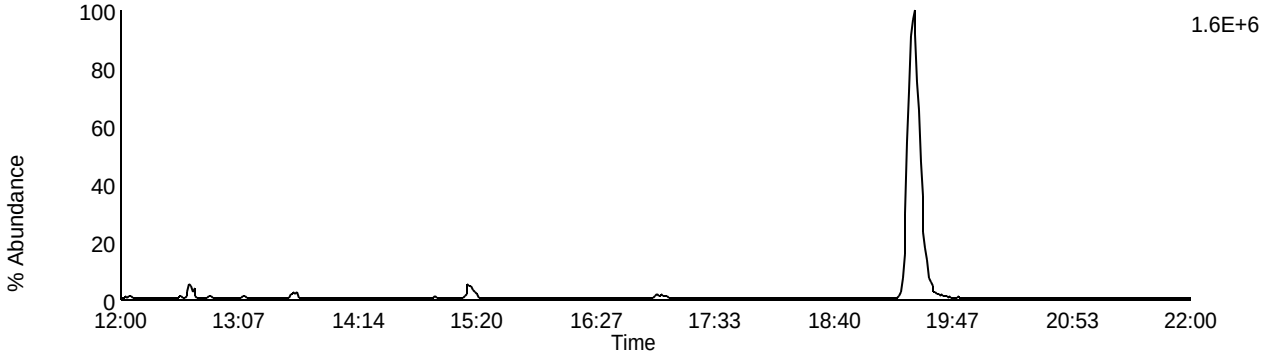
Data File: F131107A_08 G1 C12 - 339.8597
SAMP 10247063009 - SMT PASI-WI



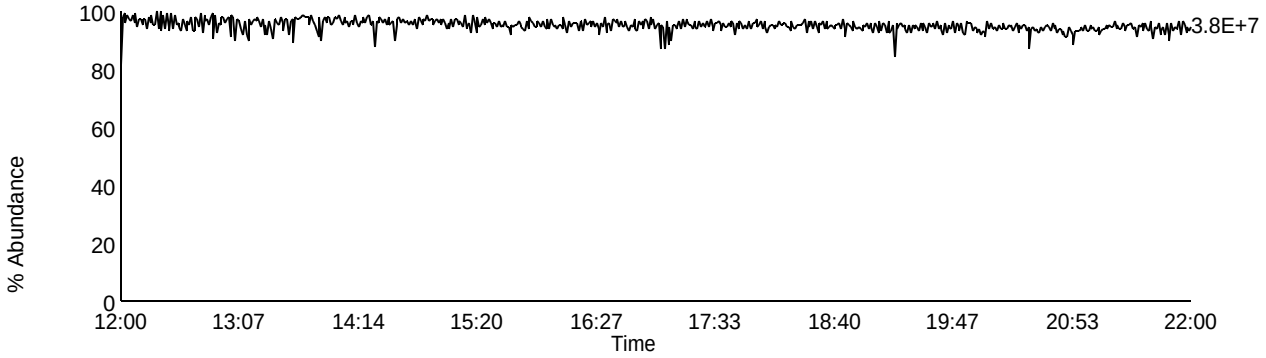
Data File: F131107A_08 G1 C13 - 341.8567
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G1 C9 - 327.8847
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G1 C5 - 318.9792
SAMP 10247063009 - SMT PASI-WI

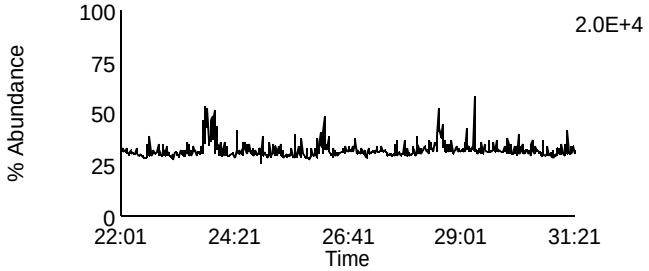


Homologue Group: Pentas

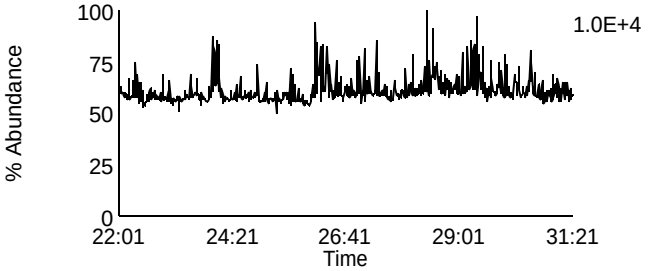
Data File Name: F131107A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063009 - SMT PASI-WI

Lab Sample ID: 10247063009
Client Sample ID: MAK017O
Instrument: 10MSHR05 (F)

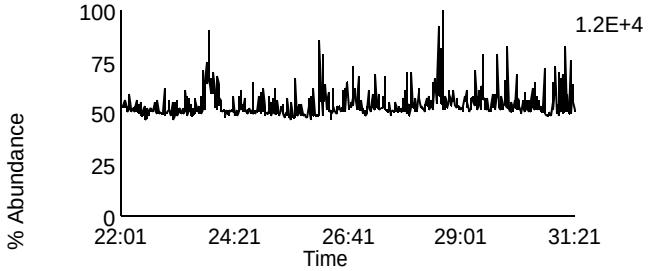
Data File: F131107A_08 G2 C1 - 339.8597
SAMP 10247063009 - SMT PASI-WI



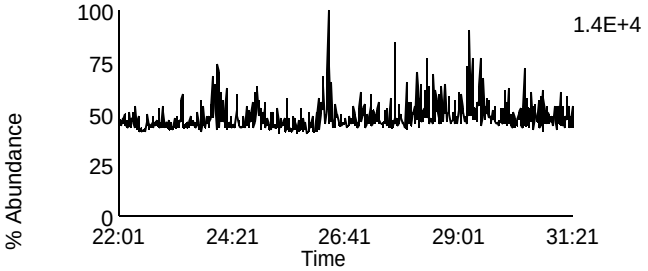
Data File: F131107A_08 G2 C4 - 353.8576
SAMP 10247063009 - SMT PASI-WI



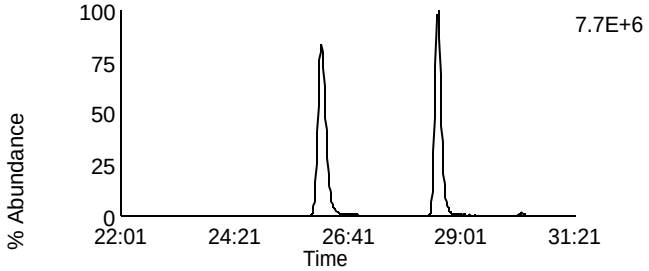
Data File: F131107A_08 G2 C2 - 341.8567
SAMP 10247063009 - SMT PASI-WI



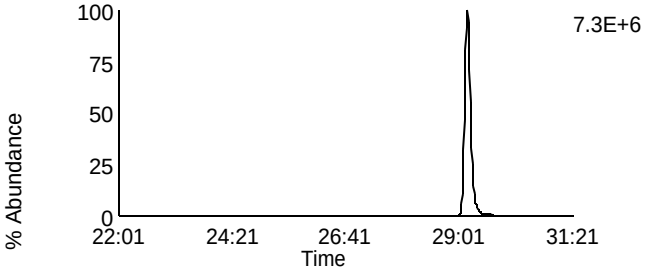
Data File: F131107A_08 G2 C8 - 355.8546
SAMP 10247063009 - SMT PASI-WI



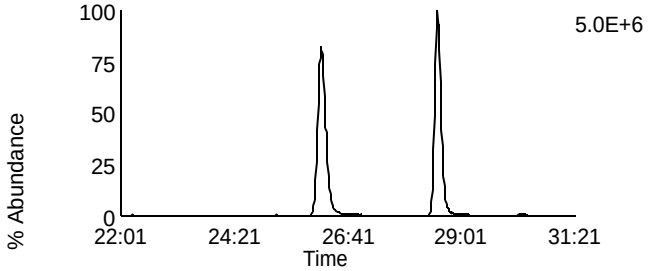
Data File: F131107A_08 G2 C3 - 351.8999
SAMP 10247063009 - SMT PASI-WI



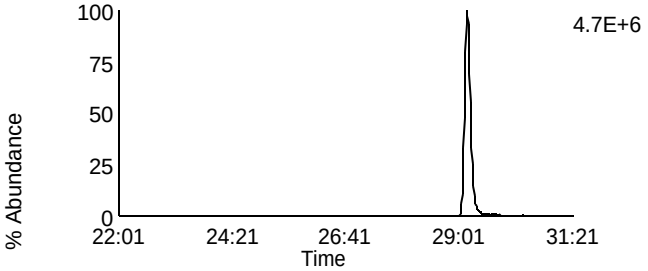
Data File: F131107A_08 G2 C10 - 367.8948
SAMP 10247063009 - SMT PASI-WI



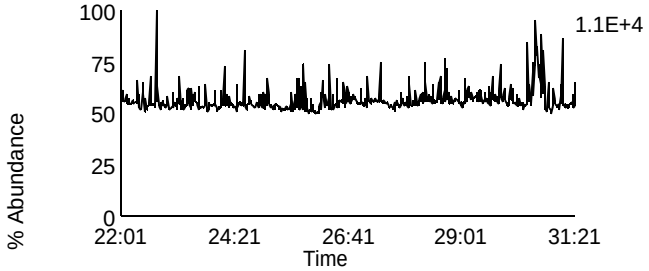
Data File: F131107A_08 G2 C5 - 353.8969
SAMP 10247063009 - SMT PASI-WI



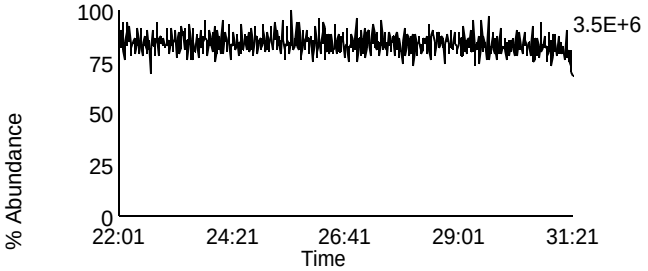
Data File: F131107A_08 G2 C11 - 369.8918
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G2 C12 - 409.7974
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G2 C6 - 354.9792
SAMP 10247063009 - SMT PASI-WI

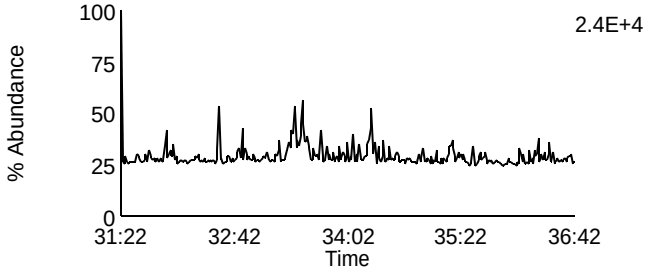


Homologue Group: Hexas

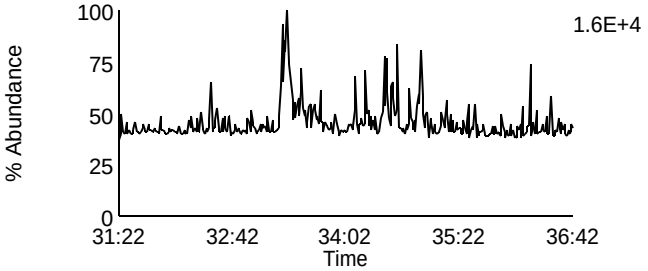
Data File Name: F131107A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063009 - SMT PASI-WI

Lab Sample ID: 10247063009
Client Sample ID: MAK017O
Instrument: 10MSHR05 (F)

Data File: F131107A_08 G3 C1 - 373.8207
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G3 C7 - 389.8156
SAMP 10247063009 - SMT PASI-WI



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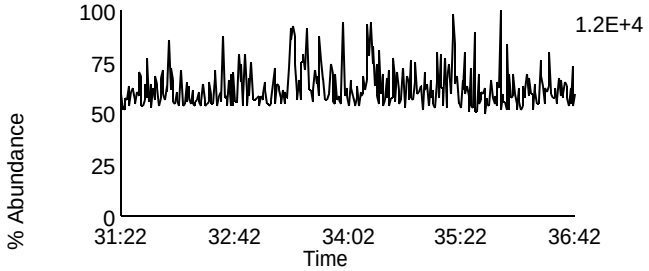
SAMP 10247063009 - SMT PASI-WI



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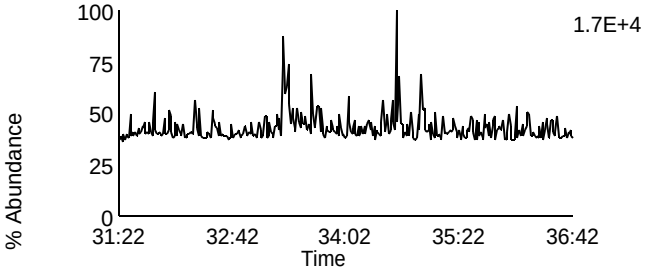
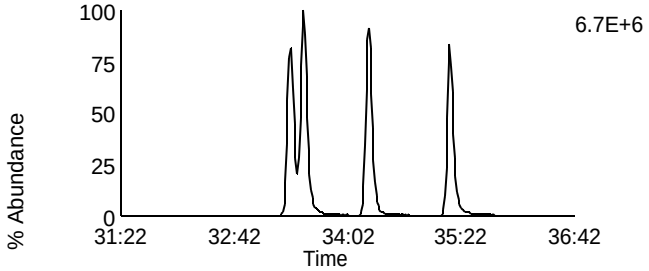
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G3 C5 - 383.8639
SAMP 10247063009 - SMT PASI-WI



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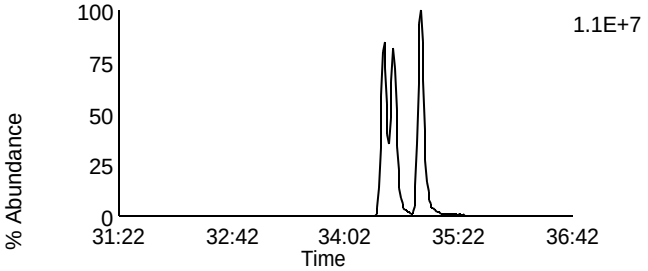
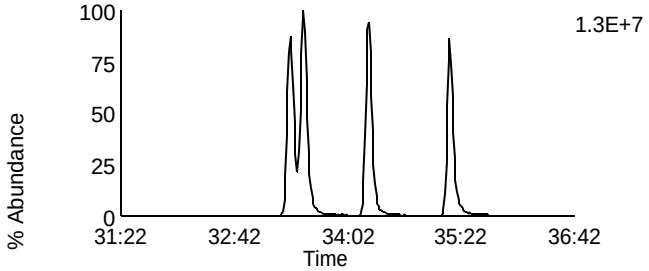
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G3 C6 - 385.861
SAMP 10247063009 - SMT PASI-WI



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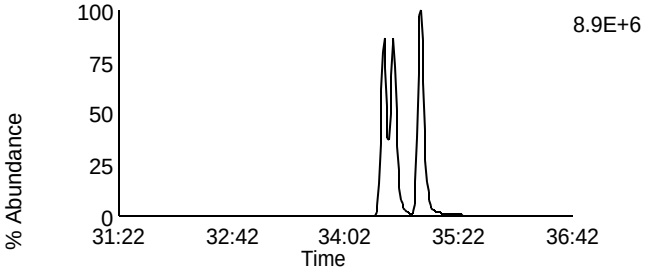
SAMP 10247063009 - SMT PASI-WI



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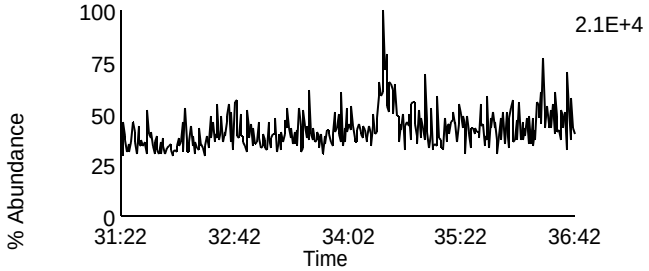
SAMP 10247063009 - SMT PASI-WI



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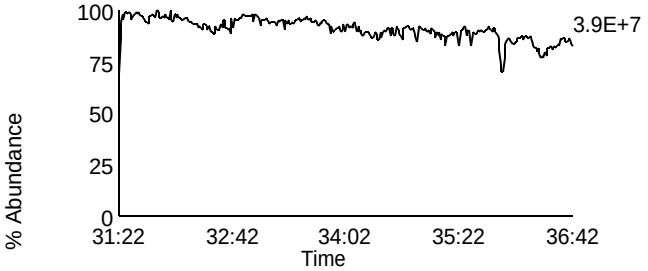
SAMP 10247063009 - SMT PASI-WI

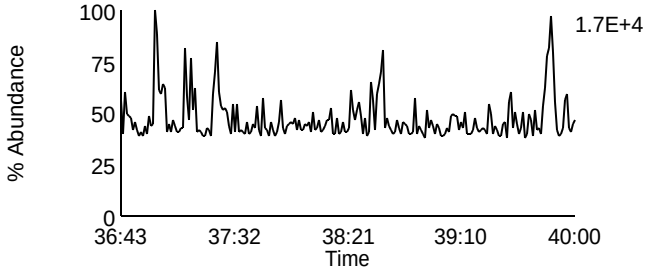


Homologue Group: Heptas

Data File Name: F131107A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063009 - SMT PASI-WI

Lab Sample ID: 10247063009
Client Sample ID: MAK017O
Instrument: 10MSHR05 (F)

Data File: F131107A_08 G4 C3 - 407.7818
SAMP 10247063009 - SMT PASI-WI



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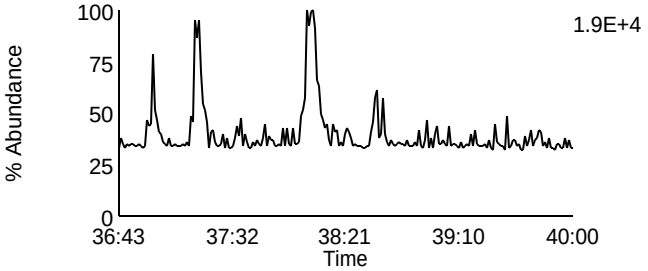
SAMP 10247063009 - SMT PASI-WI



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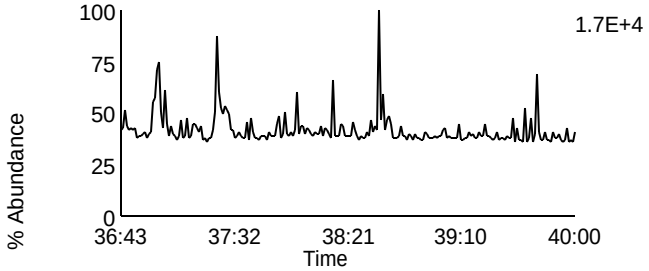
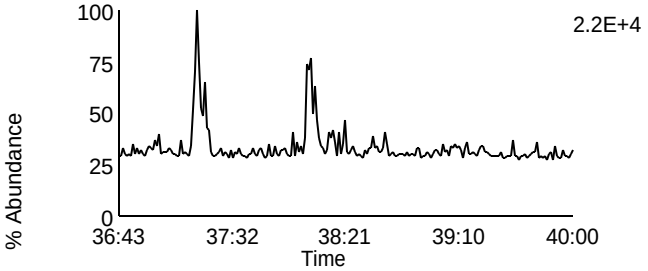
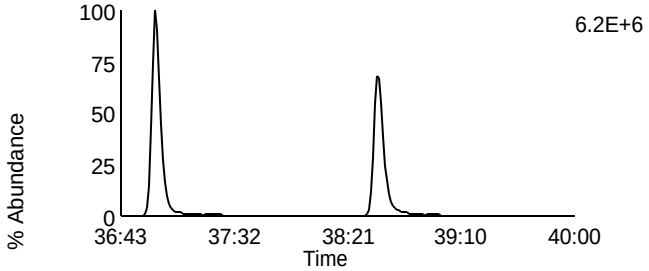
SAMP 10247063009 - SMT PASI-WI



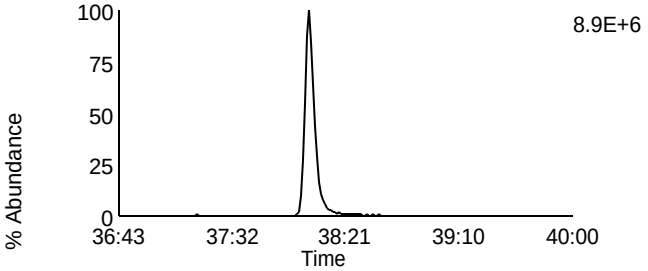
Data File: F131107A_08 G4 C9 - 425.7737
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G4 C6 - 417.825
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G4 C11 - 435.8169
SAMP 10247063009 - SMT PASI-WI



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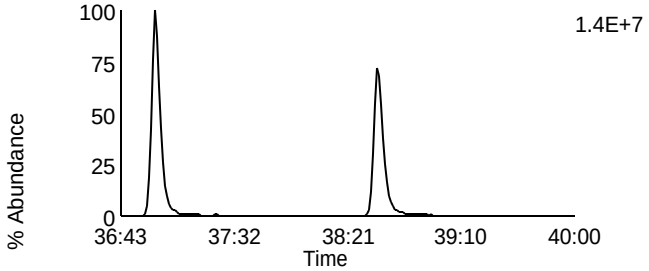
SAMP 10247063009 - SMT PASI-WI



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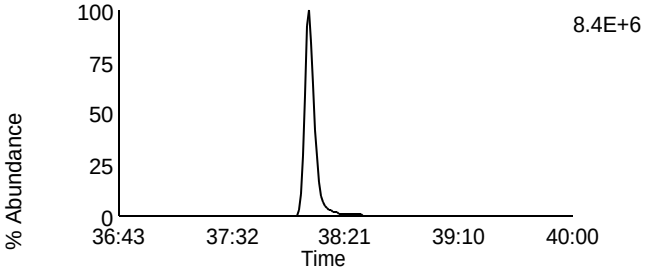
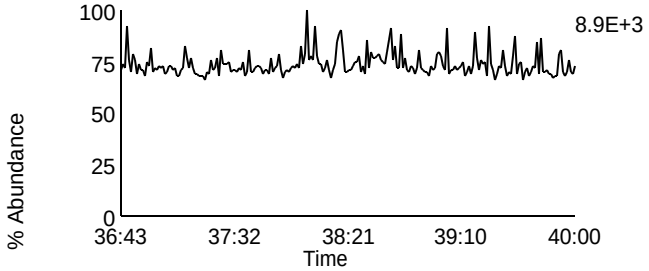
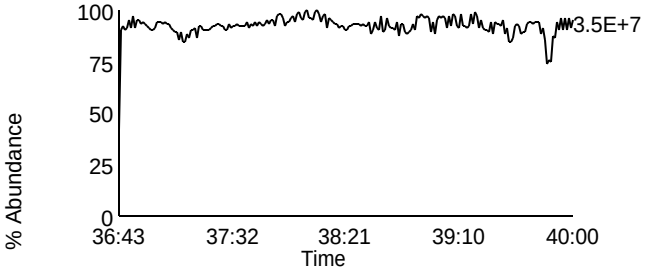
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G4 C13 - 479.7165
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G4 C1 - 380.976
SAMP 10247063009 - SMT PASI-WI

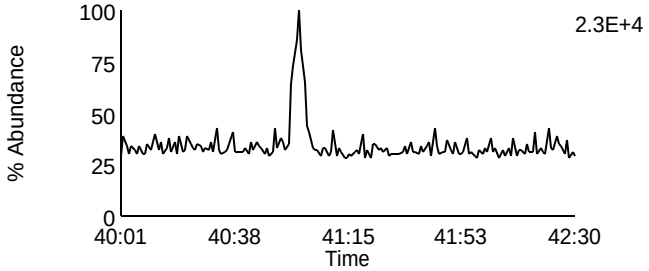


Homologue Group: Octas

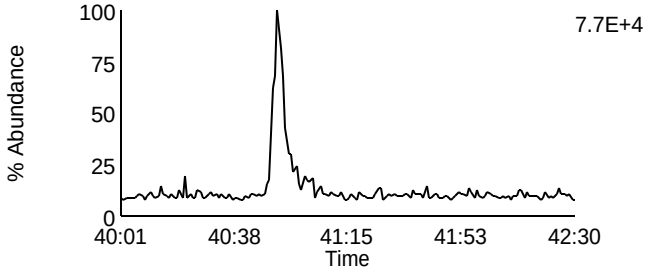
Data File Name: F131107A_08
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063009 - SMT PASI-WI

Lab Sample ID: 10247063009
Client Sample ID: MAK017O
Instrument: 10MSHR05 (F)

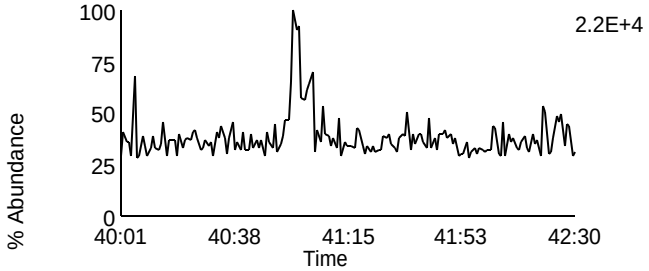
Data File: F131107A_08 G5 C4 - 441.7428
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G5 C8 - 457.7377
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G5 C5 - 443.7398
SAMP 10247063009 - SMT PASI-WI



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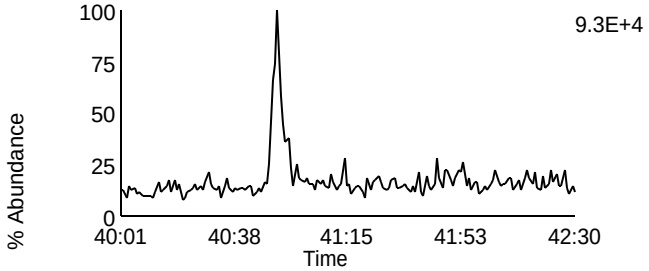
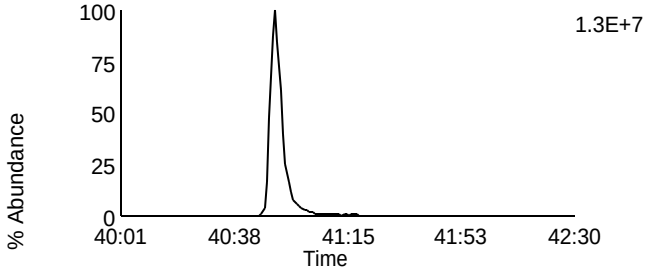
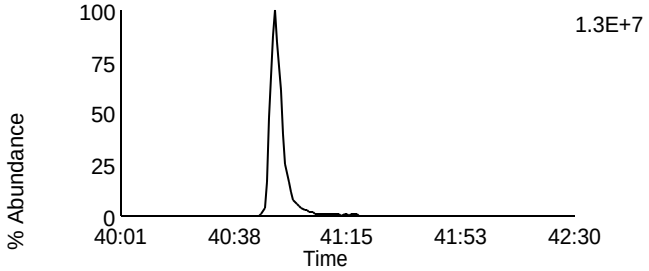
SAMP 10247063009 - SMT PASI-WI



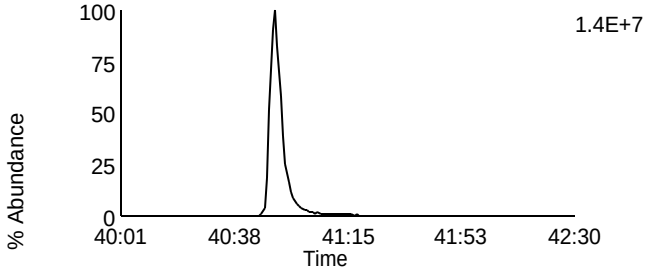
Data File: F131107A_08 G5 C11 - 469.7779
SAMP 10247063009 - SMT PASI-WI



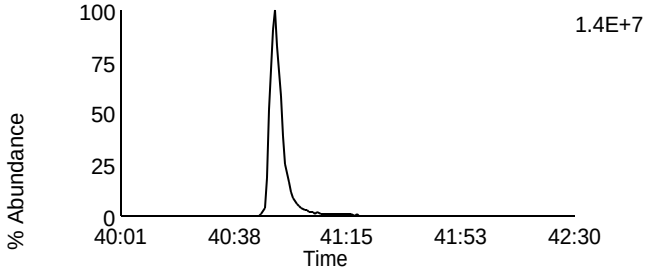
Data File: F131107A_08 G5 C11 - 469.7779
SAMP 10247063009 - SMT PASI-WI



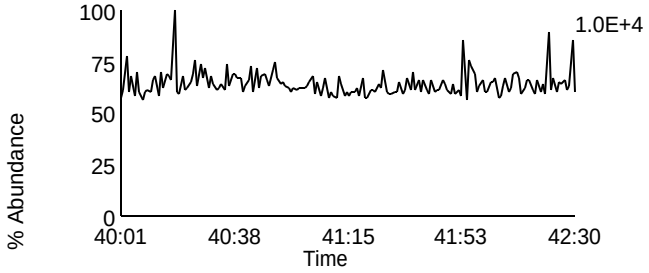
Data File: F131107A_08 G5 C12 - 471.7749
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G5 C12 - 471.7749
SAMP 10247063009 - SMT PASI-WI



Data File: F131107A_08 G5 C13 - 513.6775
SAMP 10247063009 - SMT PASI-WI



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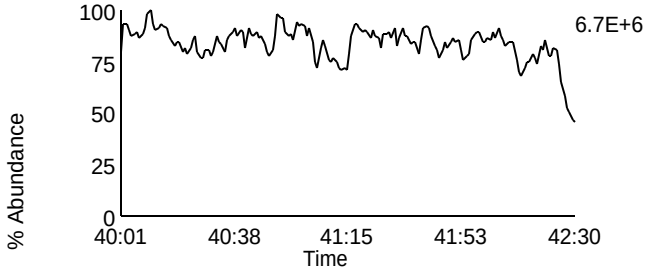
SAMP 10247063009 - SMT PASI-WI

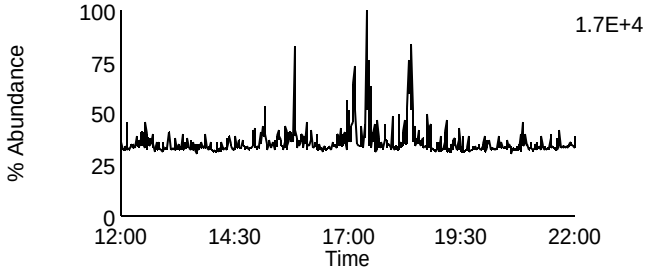


Homologue Group: Tetras

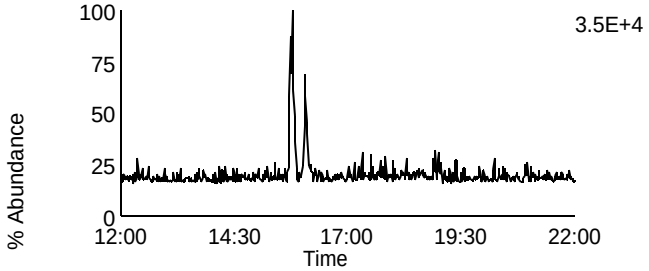
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

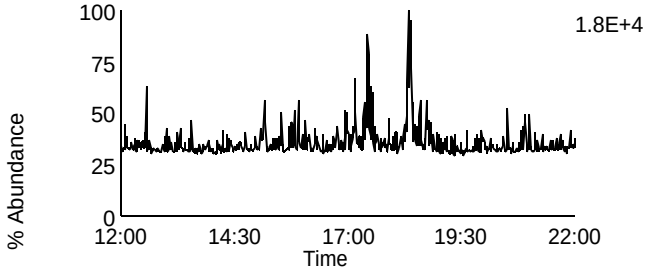
Data File: F131107A_09 G1 C1 - 303.9016
SAMP 10247063010 - SMT PASI-WI



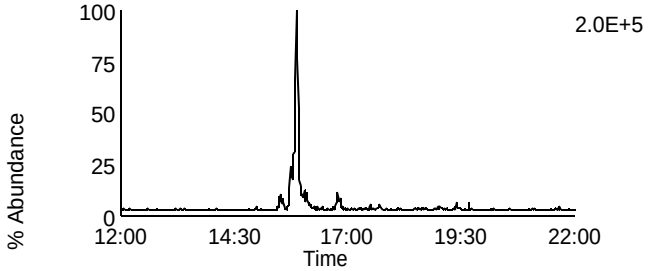
Data File: F131107A_09 G1 C7 - 319.8965
SAMP 10247063010 - SMT PASI-WI



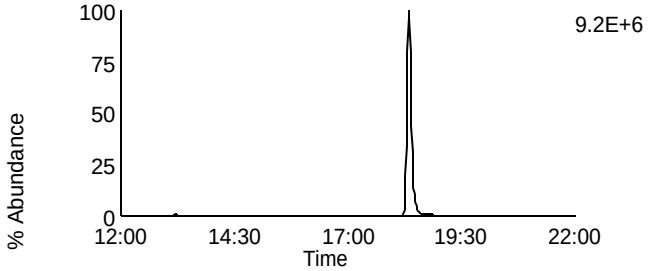
Data File: F131107A_09 G1 C2 - 305.8987
SAMP 10247063010 - SMT PASI-WI



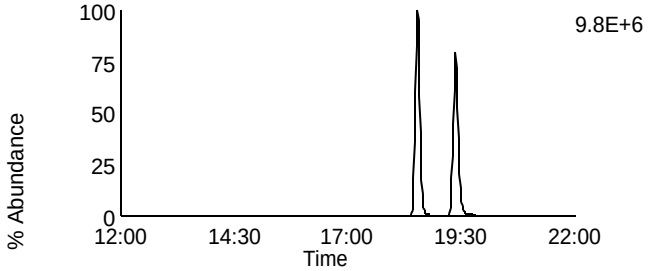
Data File: F131107A_09 G1 C8 - 321.8936
SAMP 10247063010 - SMT PASI-WI



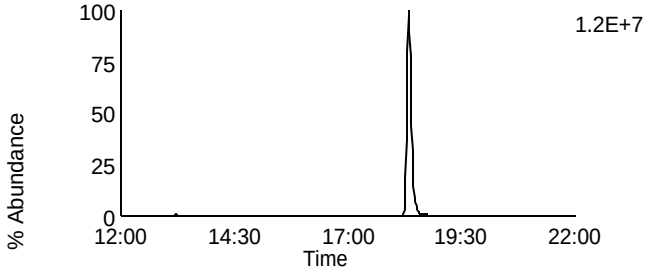
Data File: F131107A_09 G1 C3 - 315.9418
SAMP 10247063010 - SMT PASI-WI



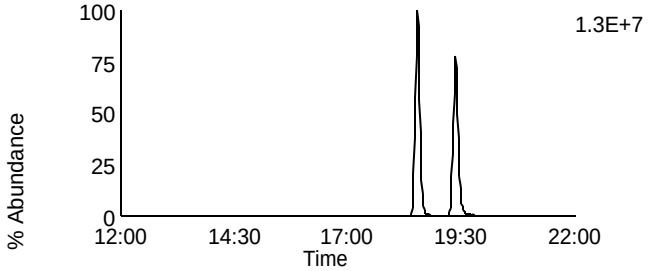
Data File: F131107A_09 G1 C10 - 331.9367
SAMP 10247063010 - SMT PASI-WI



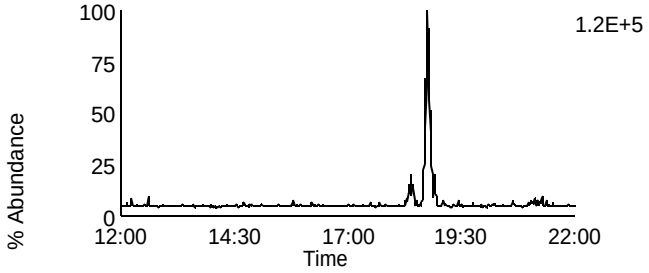
Data File: F131107A_09 G1 C4 - 317.9389
SAMP 10247063010 - SMT PASI-WI



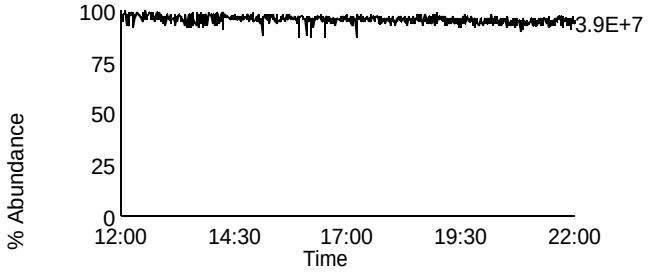
Data File: F131107A_09 G1 C11 - 333.9338
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G1 C14 - 375.8364
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G1 C5 - 318.9792
SAMP 10247063010 - SMT PASI-WI

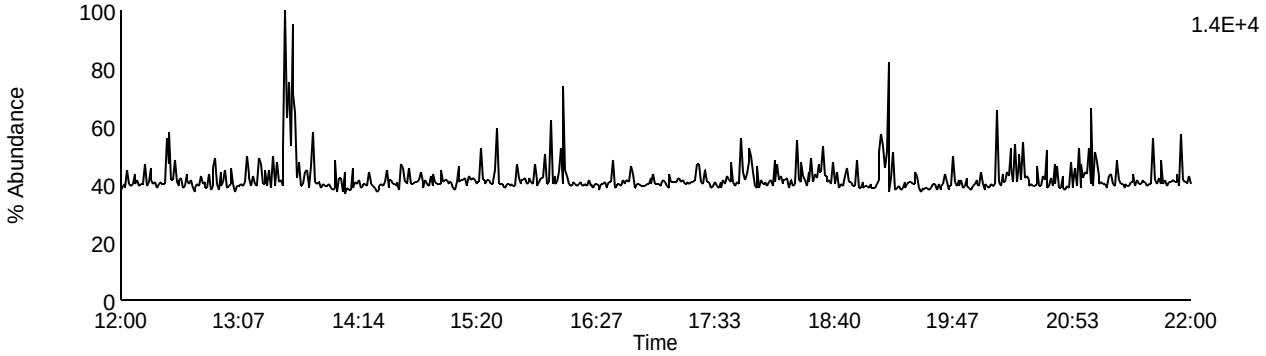


Homologue Group: Penta & Cleanup

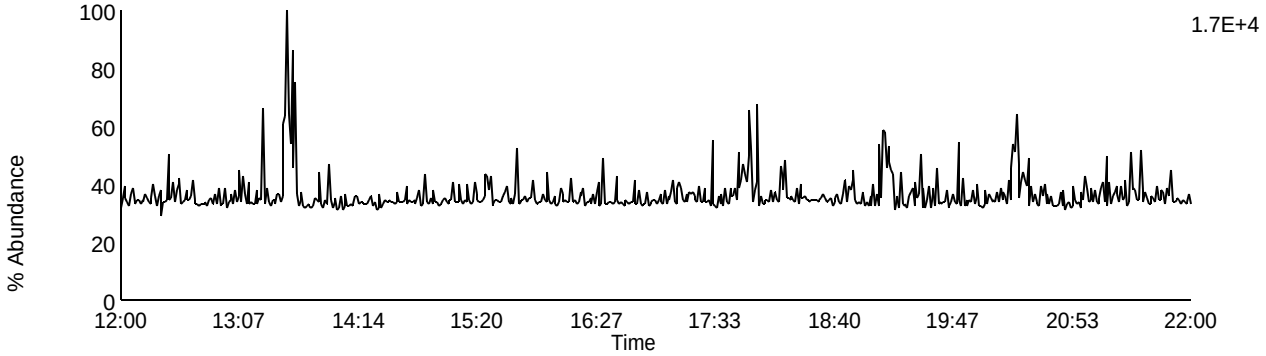
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

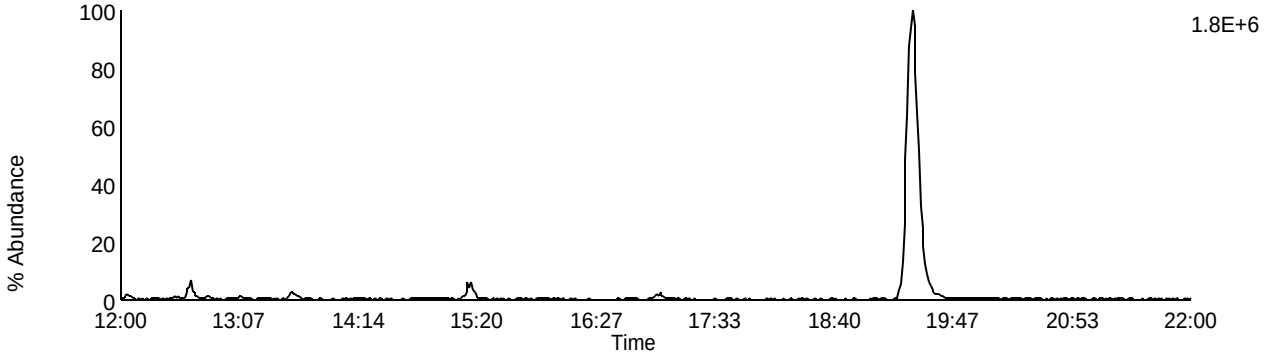
Data File: F131107A_09 G1 C12 - 339.8597
SAMP 10247063010 - SMT PASI-WI



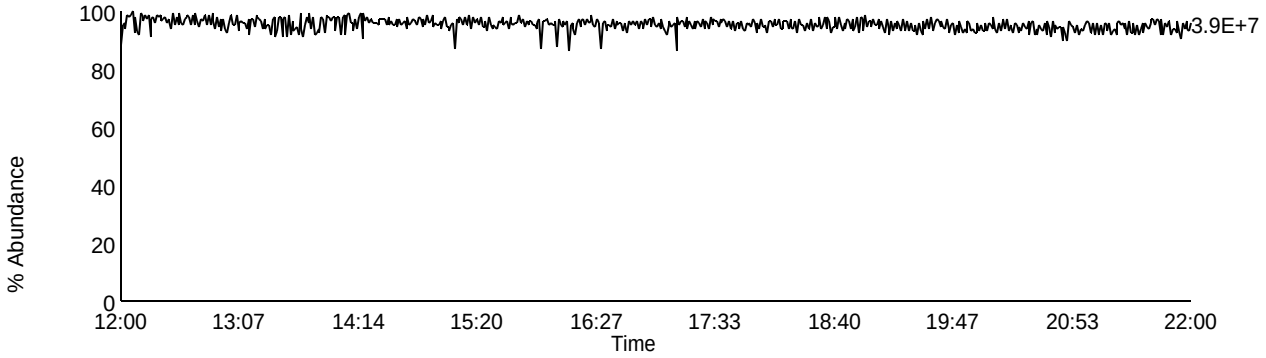
Data File: F131107A_09 G1 C13 - 341.8567
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G1 C9 - 327.8847
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G1 C5 - 318.9792
SAMP 10247063010 - SMT PASI-WI

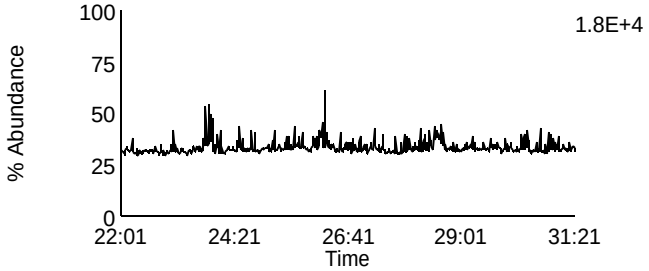


Homologue Group: Pentas

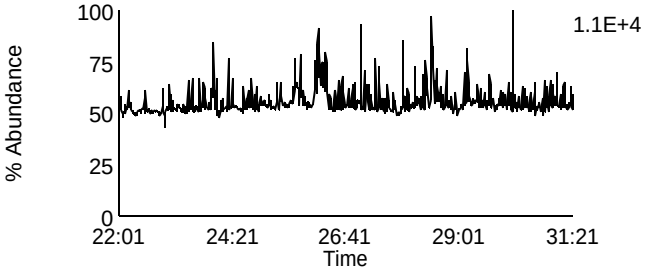
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

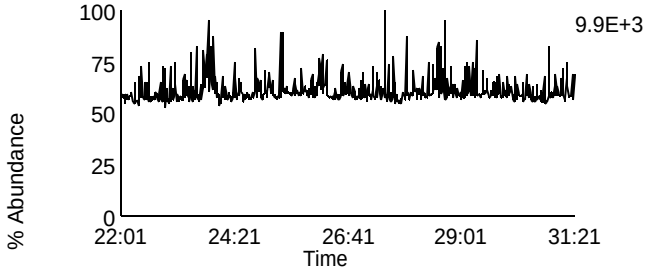
Data File: F131107A_09 G2 C1 - 339.8597
SAMP 10247063010 - SMT PASI-WI



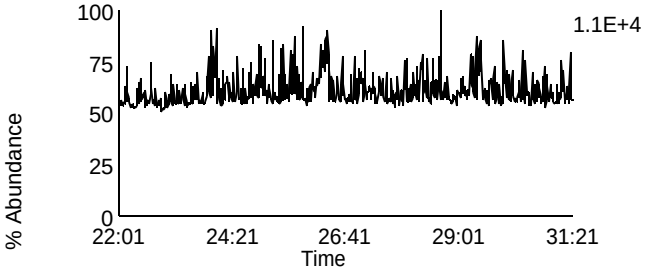
Data File: F131107A_09 G2 C4 - 353.8576
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G2 C2 - 341.8567
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G2 C8 - 355.8546
SAMP 10247063010 - SMT PASI-WI



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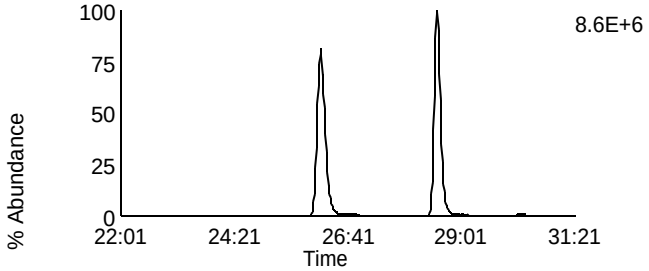
SAMP 10247063010 - SMT PASI-WI



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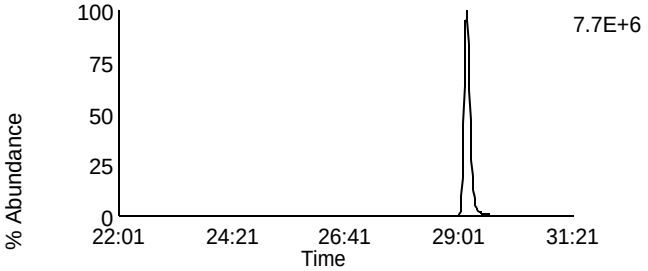
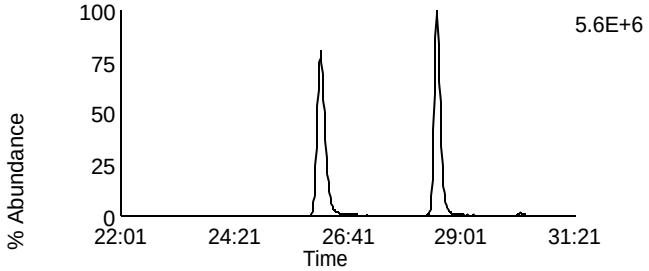
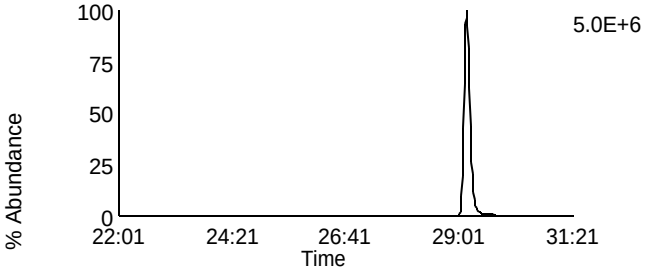
SAMP 10247063010 - SMT PASI-WI



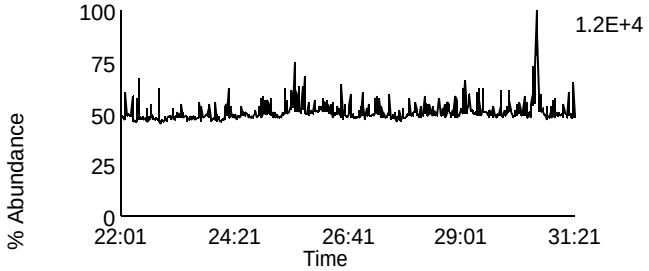
Data File: F131107A_09 G2 C5 - 353.8969
SAMP 10247063010 - SMT PASI-WI



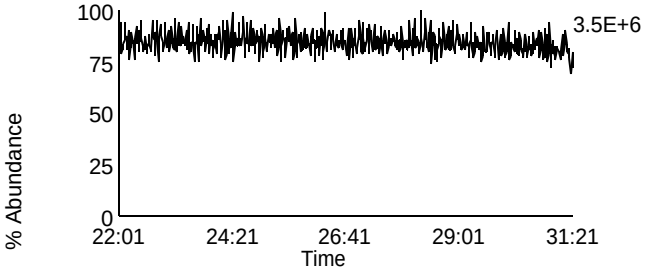
Data File: F131107A_09 G2 C11 - 369.8918
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G2 C12 - 409.7974
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G2 C6 - 354.9792
SAMP 10247063010 - SMT PASI-WI

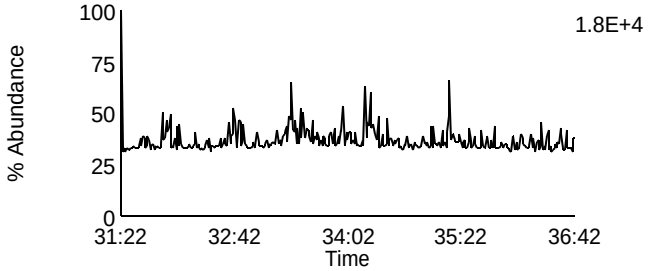


Homologue Group: Hexas

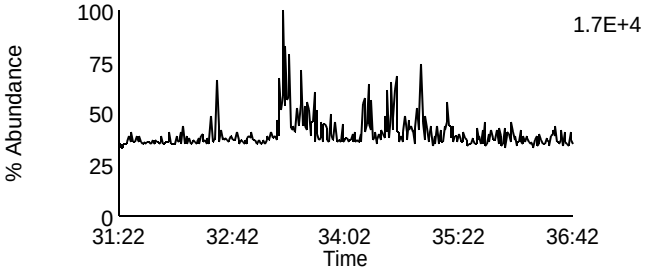
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

Data File: F131107A_09 G3 C1 - 373.8207
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G3 C7 - 389.8156
SAMP 10247063010 - SMT PASI-WI



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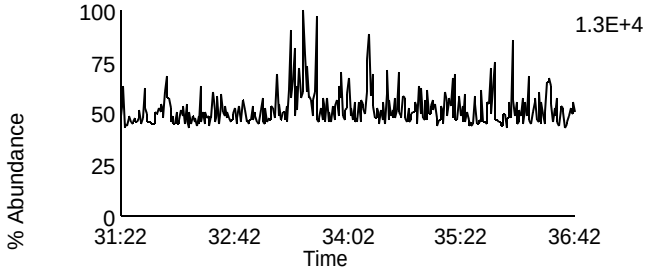
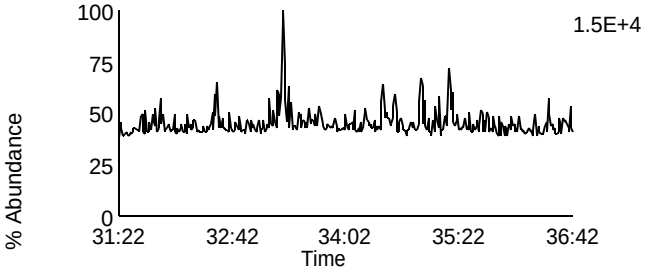
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G3 C8 - 391.8127
SAMP 10247063010 - SMT PASI-WI



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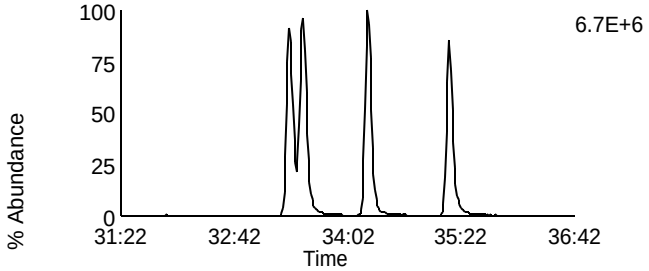
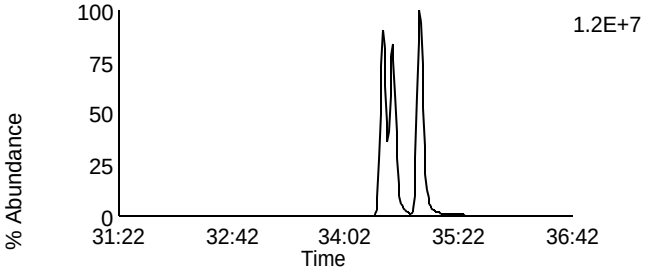
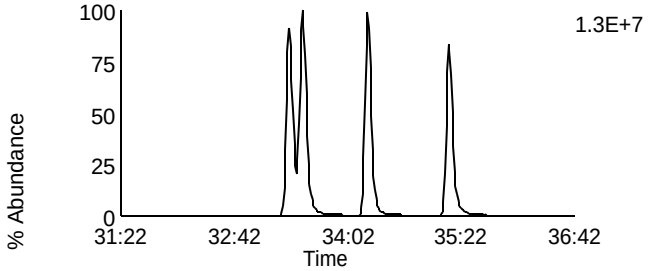
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G3 C9 - 401.8559
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G3 C6 - 385.861
SAMP 10247063010 - SMT PASI-WI



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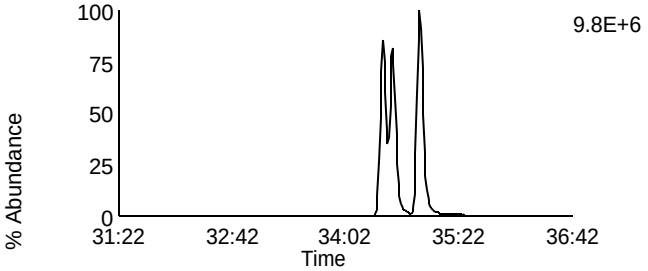
SAMP 10247063010 - SMT PASI-WI



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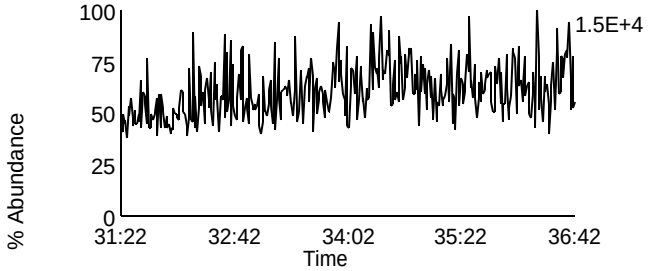
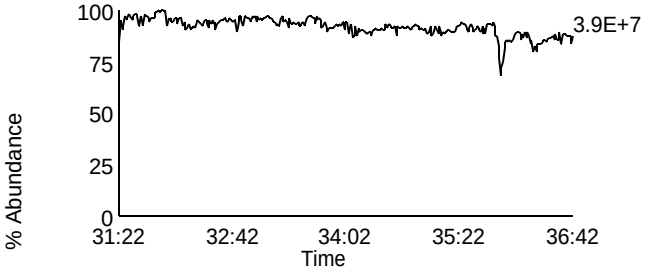
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G3 C3 - 380.976
SAMP 10247063010 - SMT PASI-WI

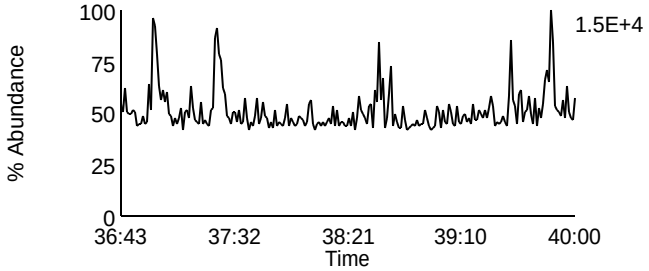


Homologue Group: Heptas

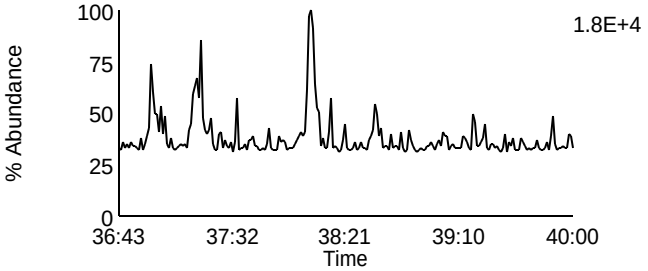
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

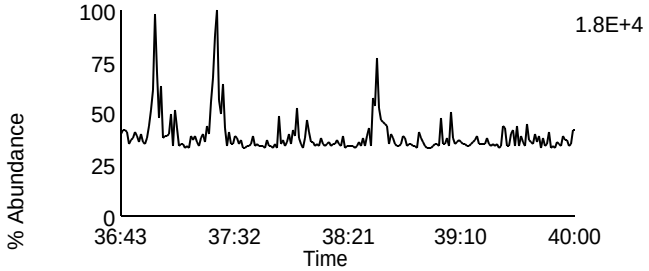
Data File: F131107A_09 G4 C3 - 407.7818
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G4 C8 - 423.7767
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G4 C4 - 409.7788
SAMP 10247063010 - SMT PASI-WI



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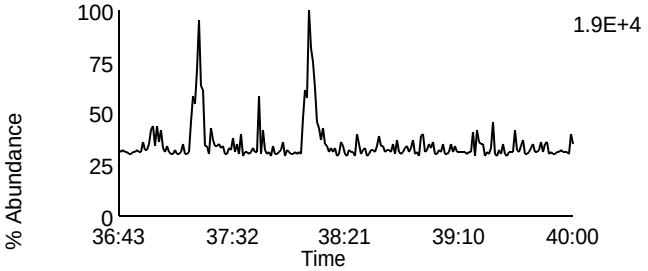
SAMP 10247063010 - SMT PASI-WI



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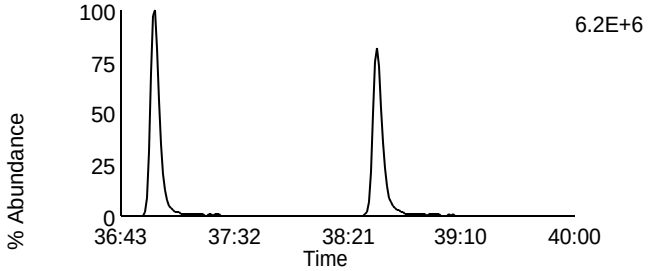
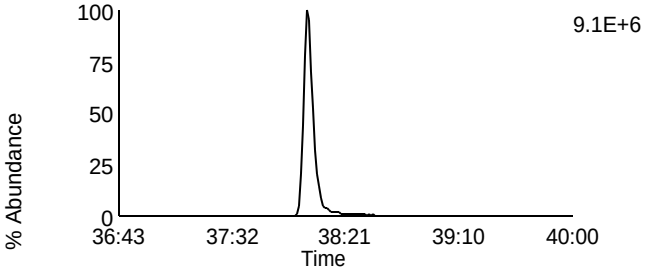
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G4 C11 - 435.8169
SAMP 10247063010 - SMT PASI-WI



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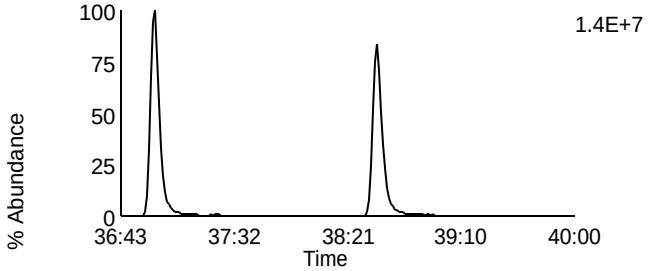
SAMP 10247063010 - SMT PASI-WI



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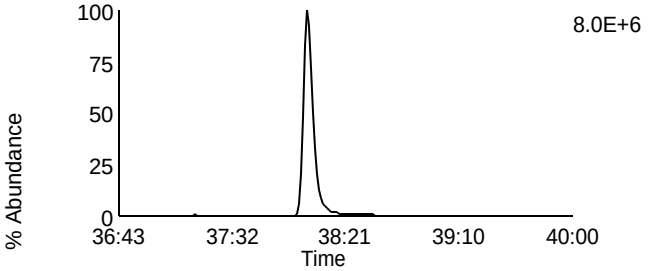
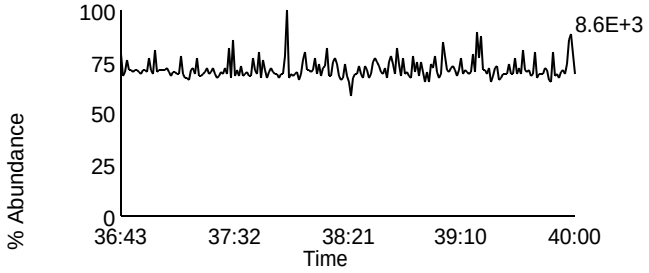
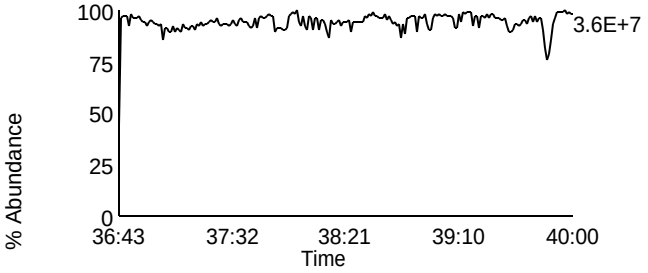


Data File: F131107A_09 G4 C13 - 479.7165
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G4 C1 - 380.976
SAMP 10247063010 - SMT PASI-WI

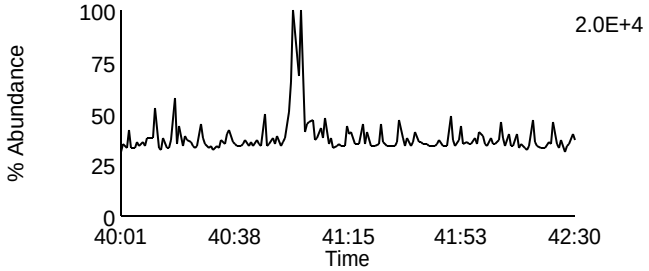


Homologue Group: Octas

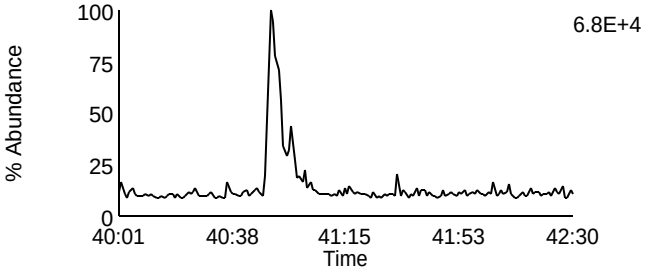
Data File Name: F131107A_09
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063010 - SMT PASI-WI

Lab Sample ID: 10247063010
Client Sample ID: MAK018O
Instrument: 10MSHR05 (F)

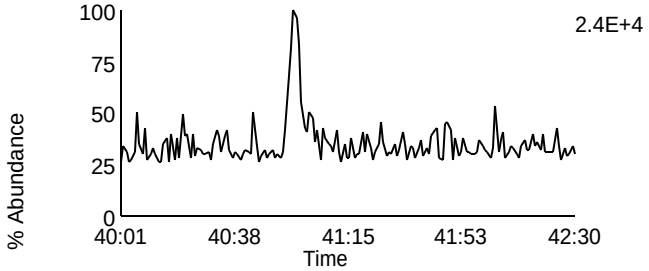
Data File: F131107A_09 G5 C4 - 441.7428
SAMP 10247063010 - SMT PASI-WI



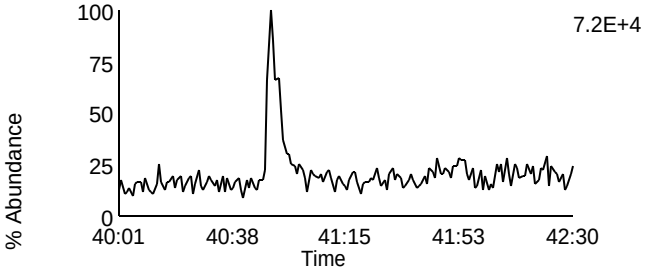
Data File: F131107A_09 G5 C8 - 457.7377
SAMP 10247063010 - SMT PASI-WI



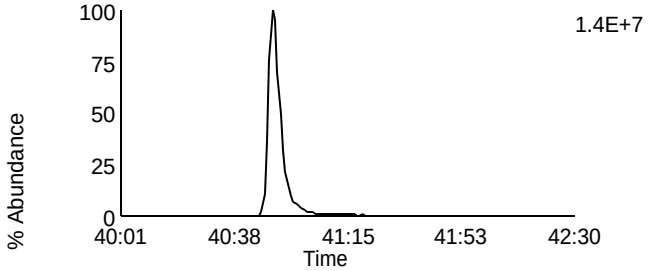
Data File: F131107A_09 G5 C5 - 443.7398
SAMP 10247063010 - SMT PASI-WI



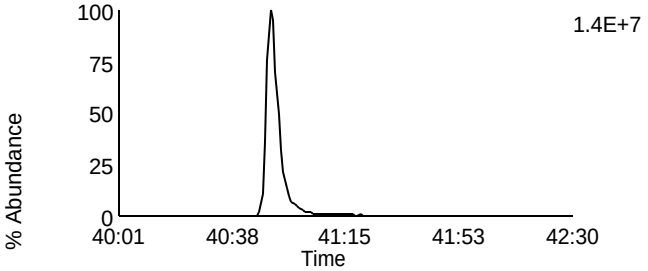
Data File: F131107A_09 G5 C9 - 459.7347
SAMP 10247063010 - SMT PASI-WI



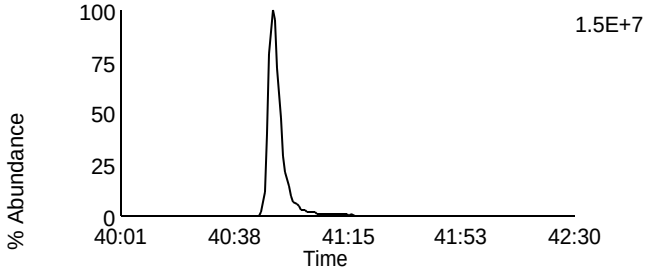
Data File: F131107A_09 G5 C11 - 469.7779
SAMP 10247063010 - SMT PASI-WI



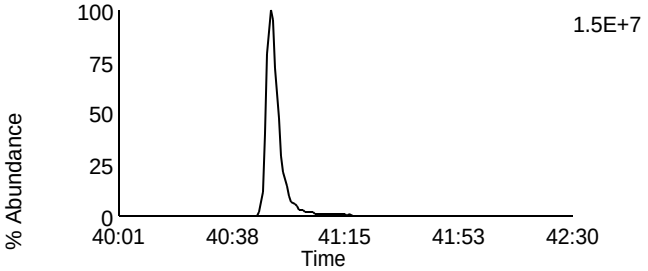
Data File: F131107A_09 G5 C11 - 469.7779
SAMP 10247063010 - SMT PASI-WI



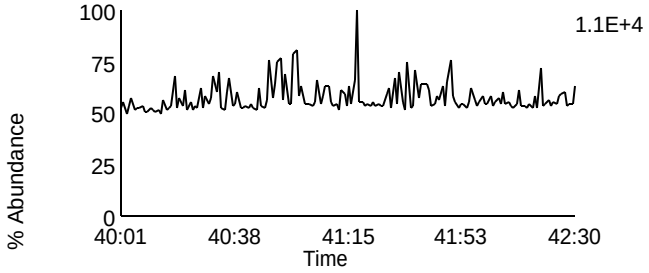
Data File: F131107A_09 G5 C12 - 471.7749
SAMP 10247063010 - SMT PASI-WI



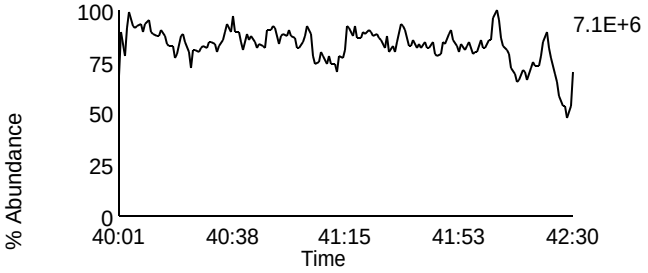
Data File: F131107A_09 G5 C12 - 471.7749
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G5 C13 - 513.6775
SAMP 10247063010 - SMT PASI-WI



Data File: F131107A_09 G5 C2 - 430.9728
SAMP 10247063010 - SMT PASI-WI

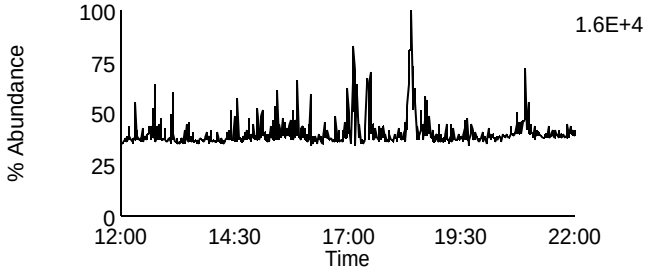


Homologue Group: Tetras

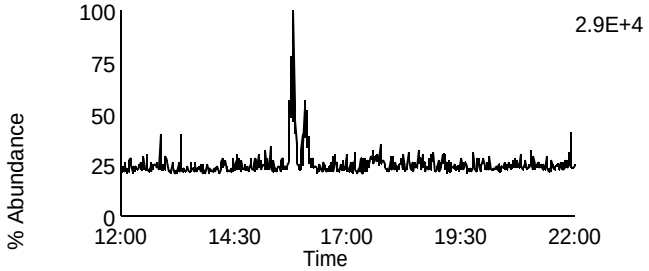
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

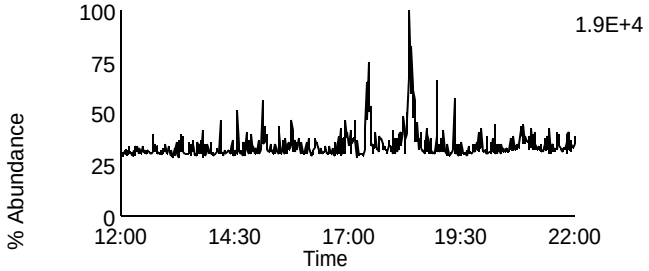
Data File: F131107A_10 G1 C1 - 303.9016
SAMP 10247063011 - SMT PASI-WI



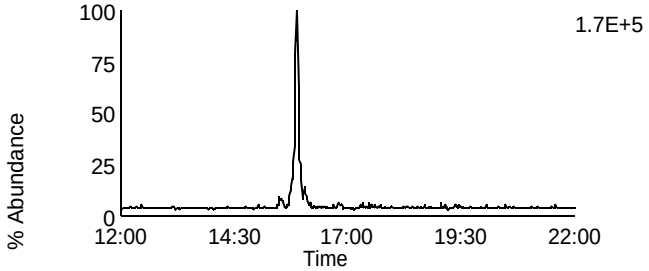
Data File: F131107A_10 G1 C7 - 319.8965
SAMP 10247063011 - SMT PASI-WI



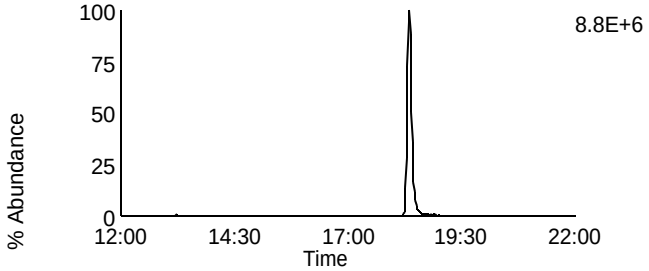
Data File: F131107A_10 G1 C2 - 305.8987
SAMP 10247063011 - SMT PASI-WI



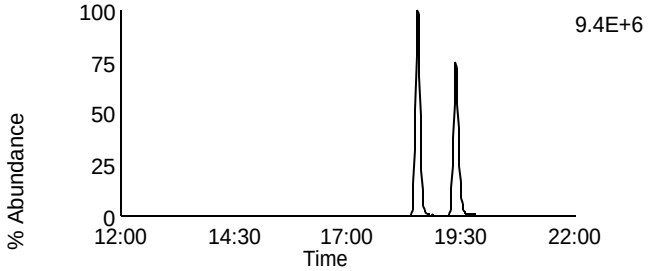
Data File: F131107A_10 G1 C8 - 321.8936
SAMP 10247063011 - SMT PASI-WI



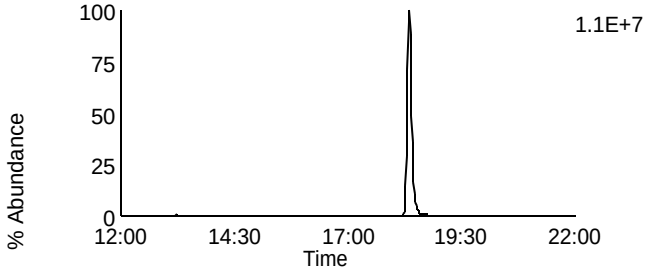
Data File: F131107A_10 G1 C3 - 315.9418
SAMP 10247063011 - SMT PASI-WI



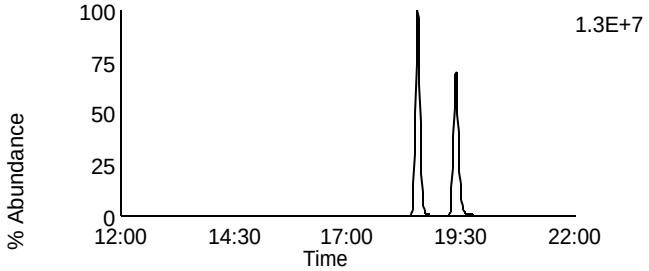
Data File: F131107A_10 G1 C10 - 331.9367
SAMP 10247063011 - SMT PASI-WI



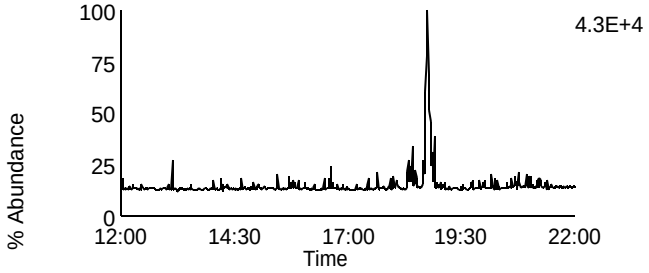
Data File: F131107A_10 G1 C4 - 317.9389
SAMP 10247063011 - SMT PASI-WI



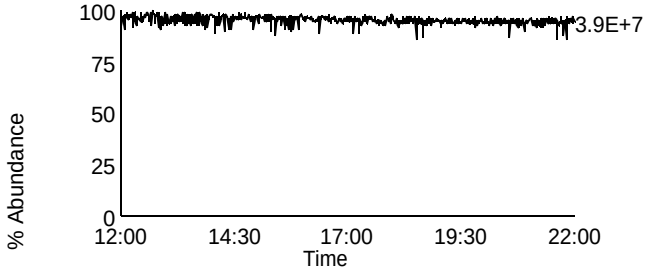
Data File: F131107A_10 G1 C11 - 333.9338
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G1 C14 - 375.8364
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G1 C5 - 318.9792
SAMP 10247063011 - SMT PASI-WI

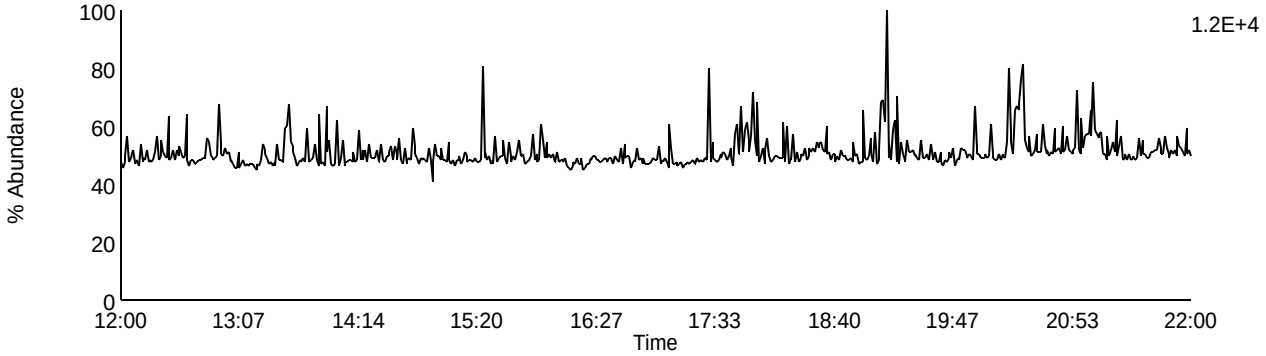


Homologue Group: Penta & Cleanup

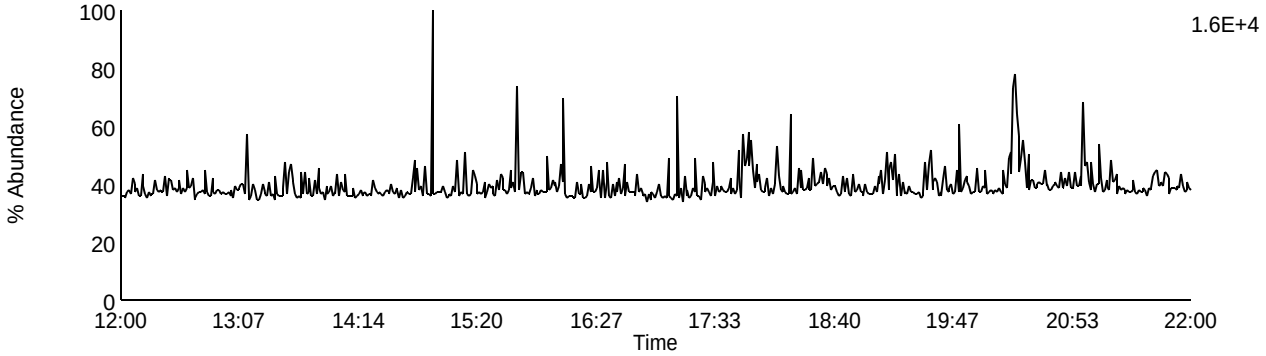
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

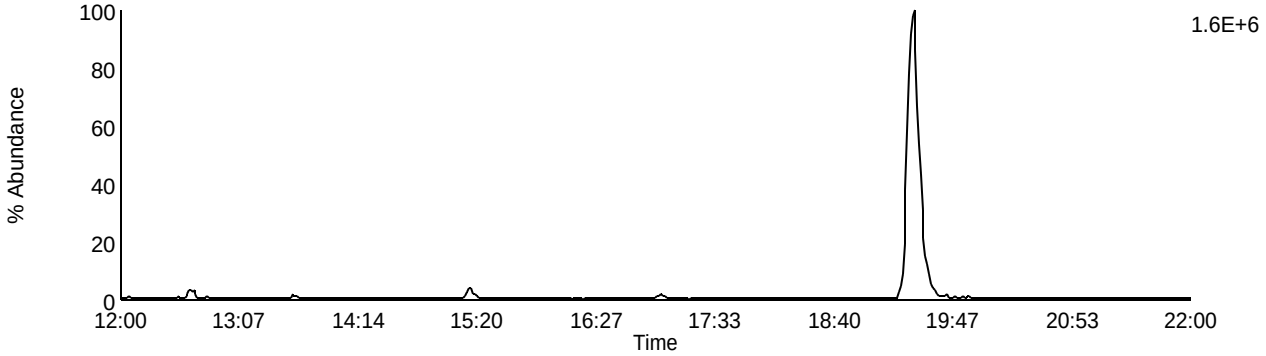
Data File: F131107A_10 G1 C12 - 339.8597
SAMP 10247063011 - SMT PASI-WI



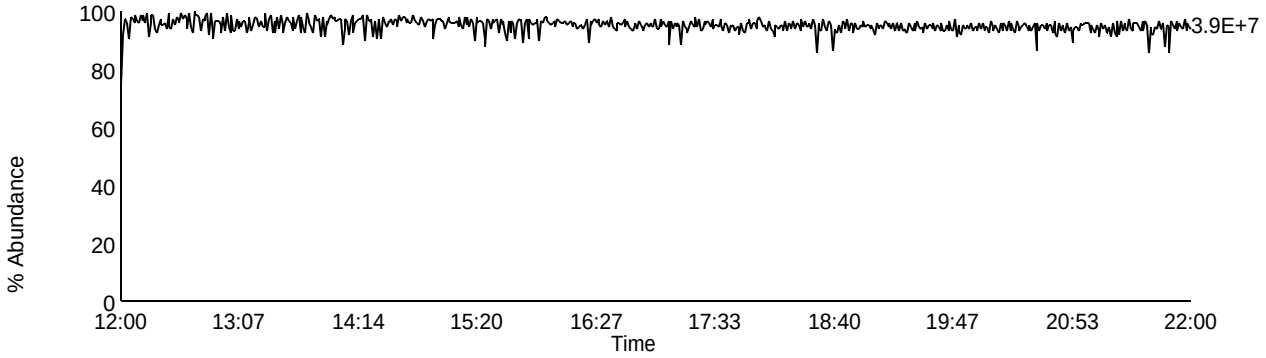
Data File: F131107A_10 G1 C13 - 341.8567
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G1 C9 - 327.8847
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G1 C5 - 318.9792
SAMP 10247063011 - SMT PASI-WI

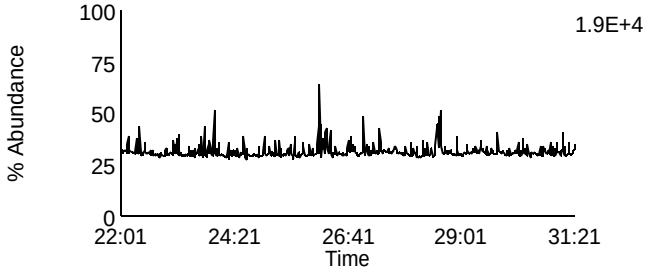


Homologue Group: Pentas

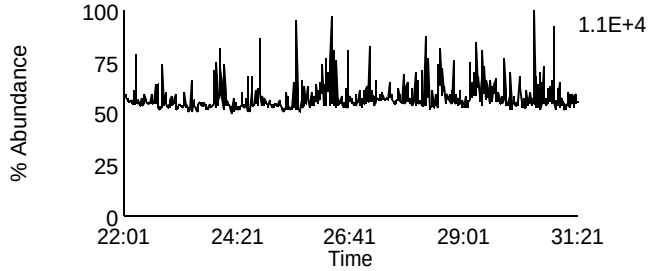
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

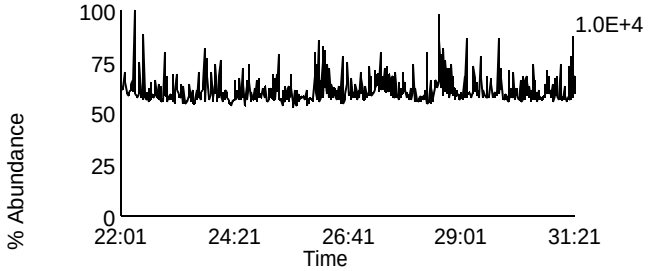
Data File: F131107A_10 G2 C1 - 339.8597
SAMP 10247063011 - SMT PASI-WI



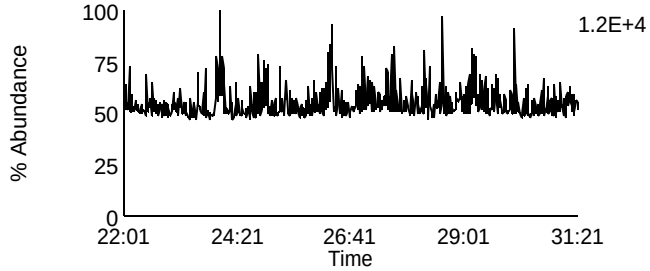
Data File: F131107A_10 G2 C4 - 353.8576
SAMP 10247063011 - SMT PASI-WI



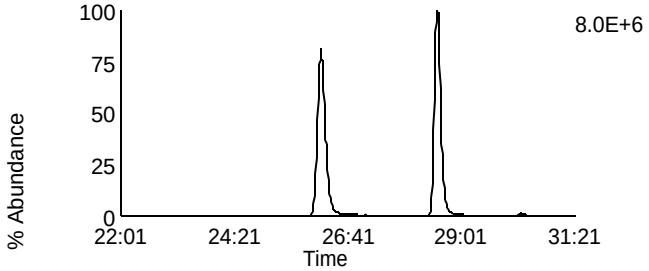
Data File: F131107A_10 G2 C2 - 341.8567
SAMP 10247063011 - SMT PASI-WI



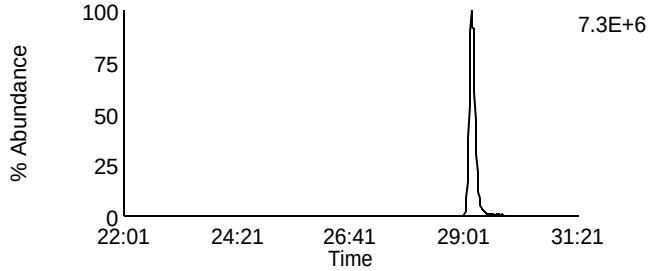
Data File: F131107A_10 G2 C8 - 355.8546
SAMP 10247063011 - SMT PASI-WI



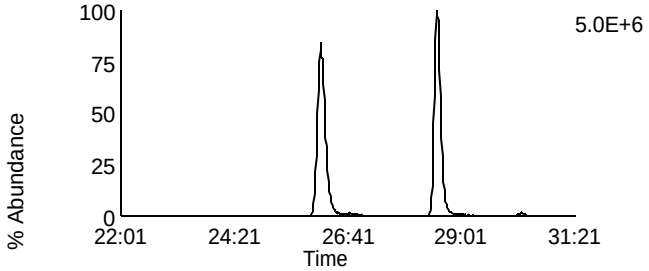
Data File: F131107A_10 G2 C3 - 351.8999
SAMP 10247063011 - SMT PASI-WI



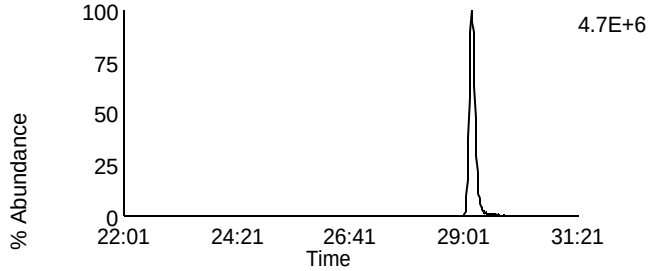
Data File: F131107A_10 G2 C10 - 367.8948
SAMP 10247063011 - SMT PASI-WI



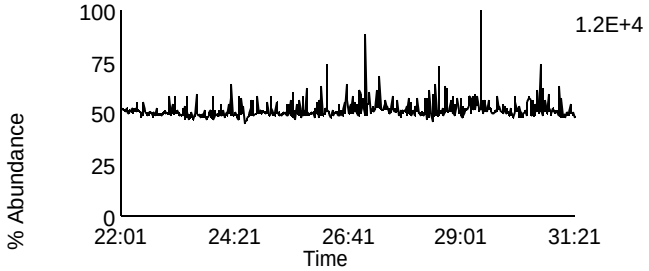
Data File: F131107A_10 G2 C5 - 353.8969
SAMP 10247063011 - SMT PASI-WI



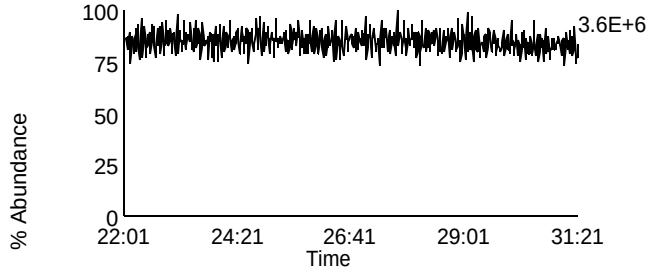
Data File: F131107A_10 G2 C11 - 369.8918
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G2 C12 - 409.7974
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G2 C6 - 354.9792
SAMP 10247063011 - SMT PASI-WI

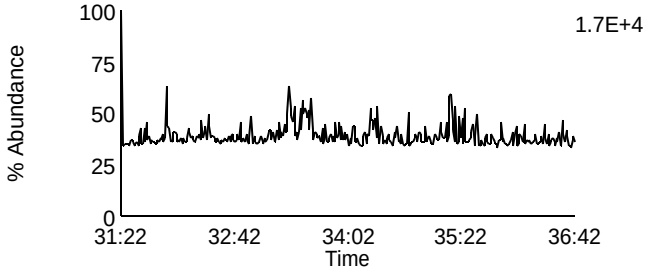


Homologue Group: Hexas

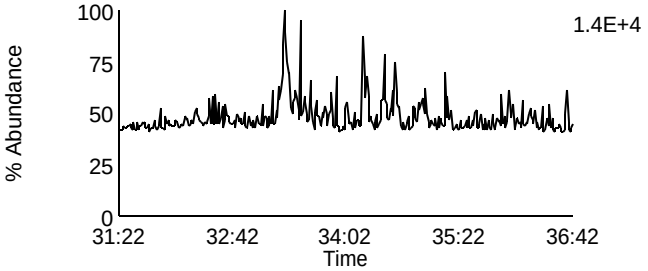
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

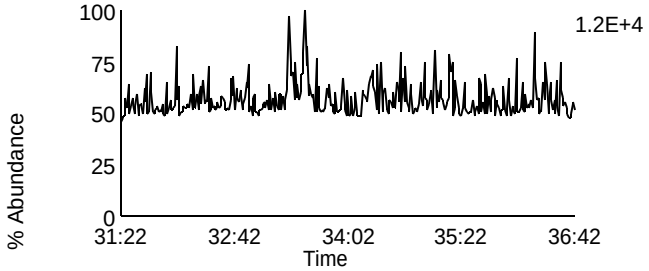
Data File: F131107A_10 G3 C1 - 373.8207
SAMP 10247063011 - SMT PASI-WI



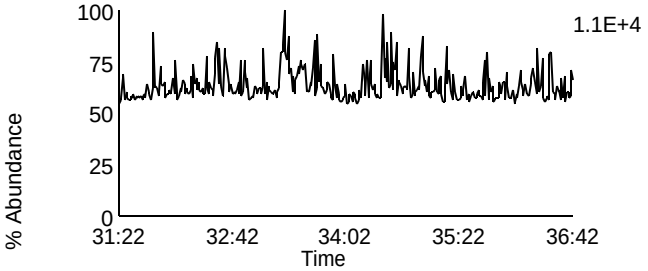
Data File: F131107A_10 G3 C7 - 389.8156
SAMP 10247063011 - SMT PASI-WI



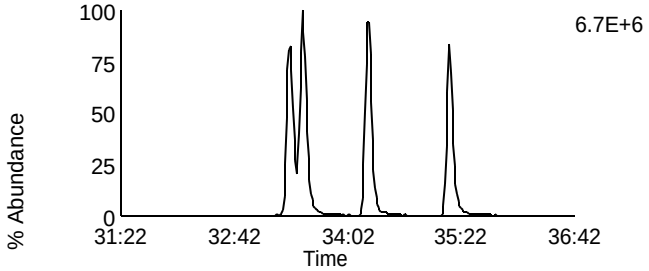
Data File: F131107A_10 G3 C2 - 375.8178
SAMP 10247063011 - SMT PASI-WI



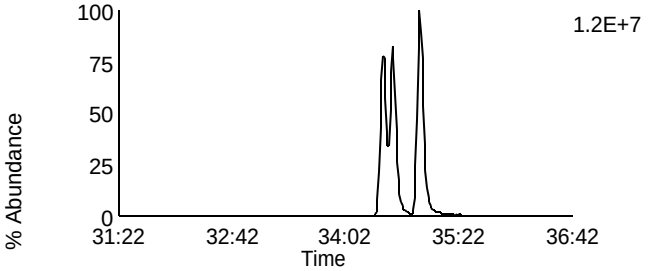
Data File: F131107A_10 G3 C8 - 391.8127
SAMP 10247063011 - SMT PASI-WI



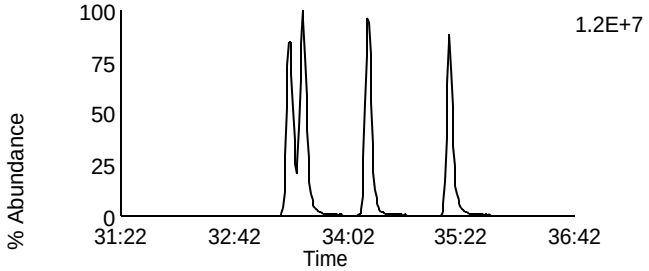
Data File: F131107A_10 G3 C5 - 383.8639
SAMP 10247063011 - SMT PASI-WI



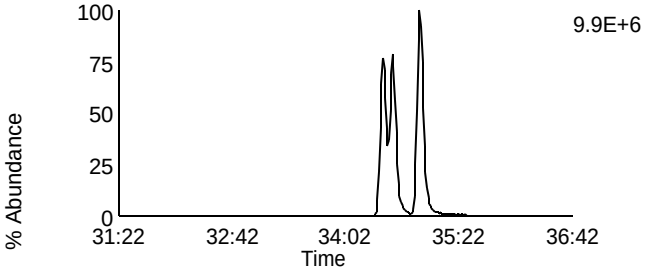
Data File: F131107A_10 G3 C9 - 401.8559
SAMP 10247063011 - SMT PASI-WI



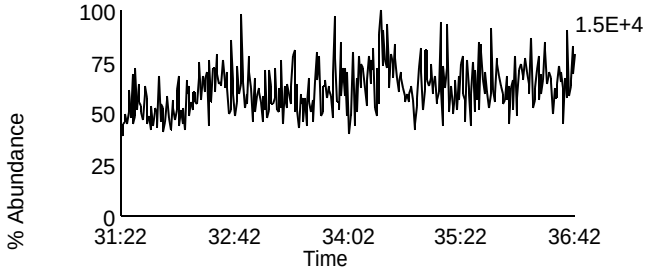
Data File: F131107A_10 G3 C6 - 385.861
SAMP 10247063011 - SMT PASI-WI



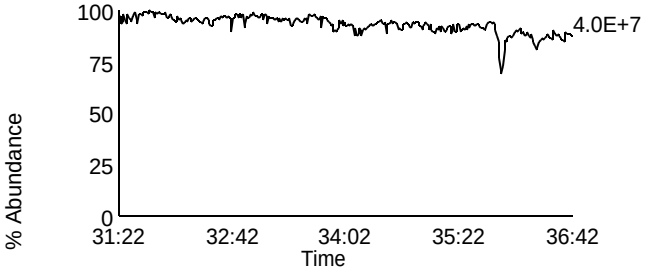
Data File: F131107A_10 G3 C10 - 403.8529
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G3 C11 - 445.7555
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G3 C3 - 380.976
SAMP 10247063011 - SMT PASI-WI

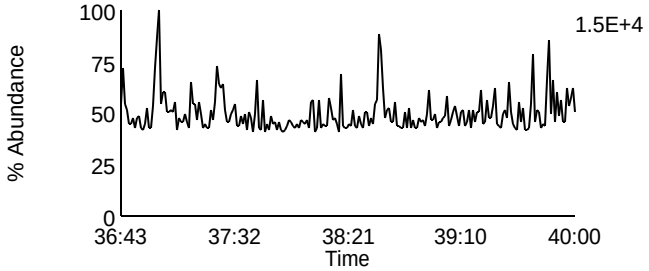


Homologue Group: Heptas

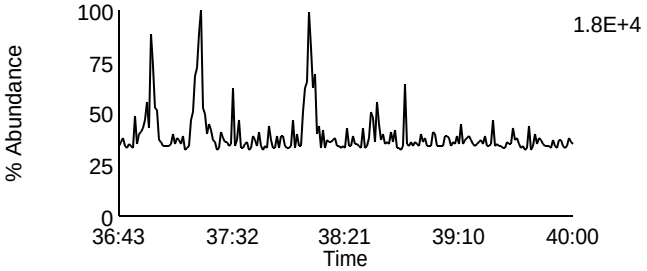
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

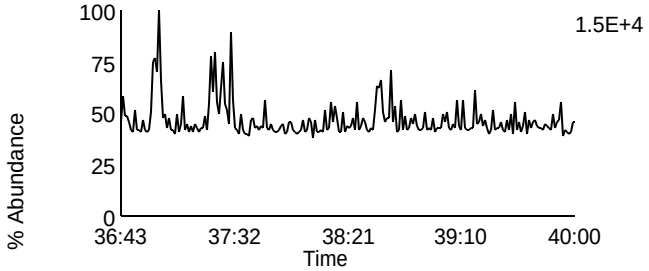
Data File: F131107A_10 G4 C3 - 407.7818
SAMP 10247063011 - SMT PASI-WI



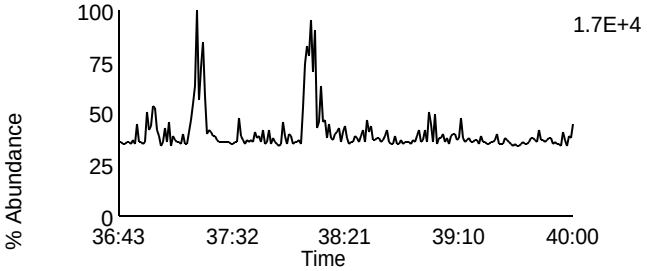
Data File: F131107A_10 G4 C8 - 423.7767
SAMP 10247063011 - SMT PASI-WI



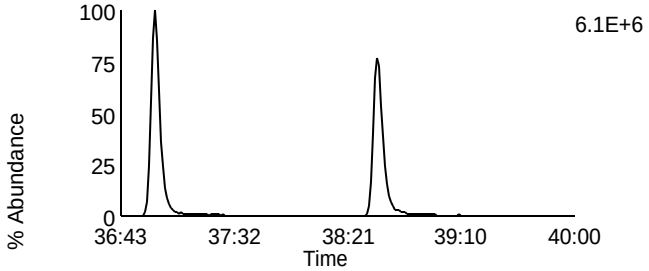
Data File: F131107A_10 G4 C4 - 409.7788
SAMP 10247063011 - SMT PASI-WI



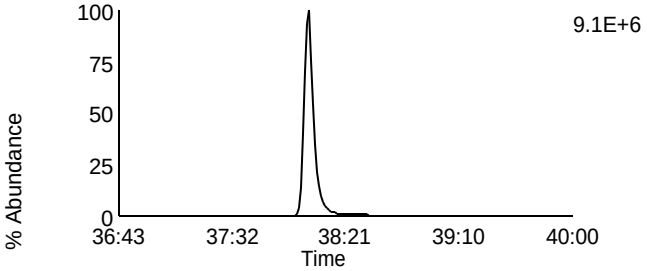
Data File: F131107A_10 G4 C9 - 425.7737
SAMP 10247063011 - SMT PASI-WI



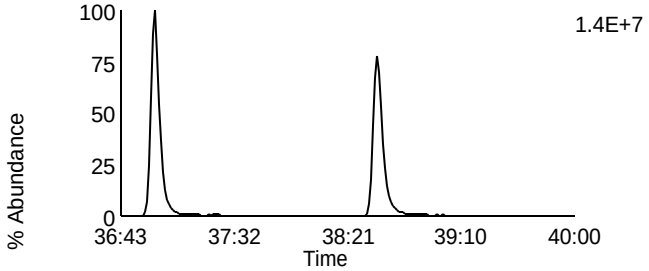
Data File: F131107A_10 G4 C6 - 417.825
SAMP 10247063011 - SMT PASI-WI



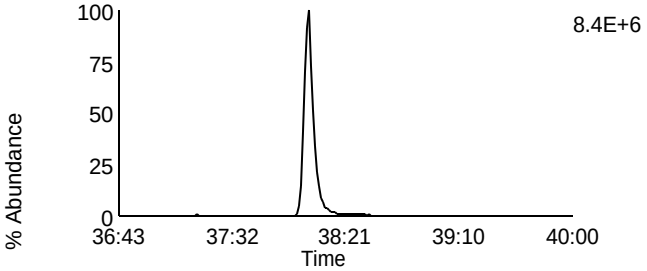
Data File: F131107A_10 G4 C11 - 435.8169
SAMP 10247063011 - SMT PASI-WI



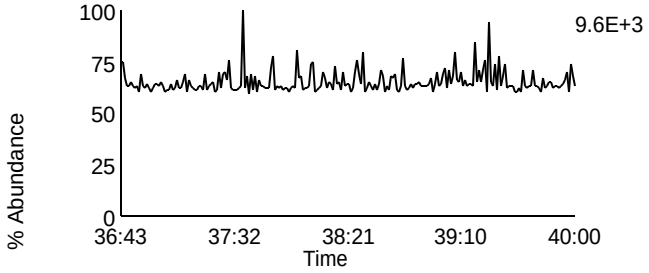
Data File: F131107A_10 G4 C7 - 419.822
SAMP 10247063011 - SMT PASI-WI



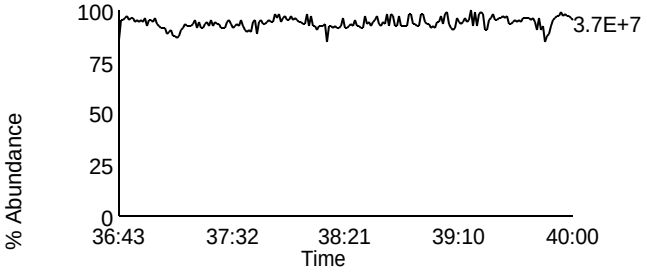
Data File: F131107A_10 G4 C12 - 437.814
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G4 C13 - 479.7165
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G4 C1 - 380.976
SAMP 10247063011 - SMT PASI-WI

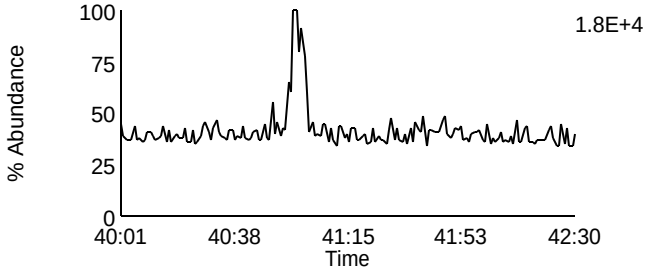


Homologue Group: Octas

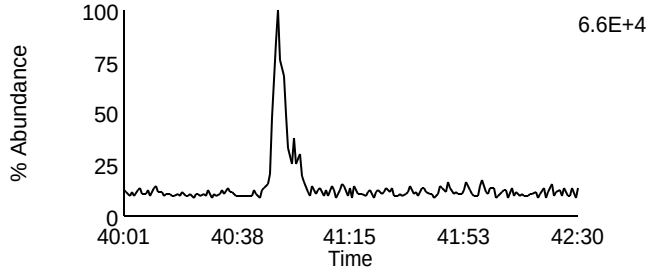
Data File Name: F131107A_10
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063011 - SMT PASI-WI

Lab Sample ID: 10247063011
Client Sample ID: MAK019O
Instrument: 10MSHR05 (F)

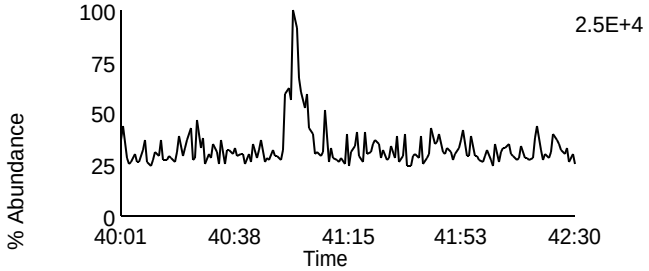
Data File: F131107A_10 G5 C4 - 441.7428
SAMP 10247063011 - SMT PASI-WI



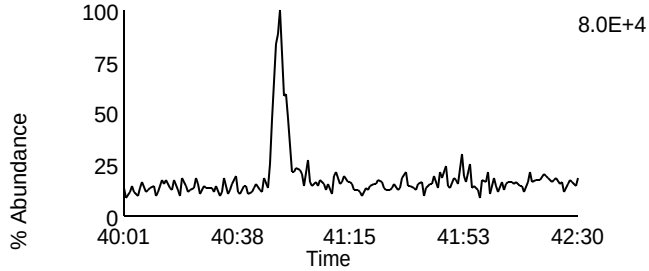
Data File: F131107A_10 G5 C8 - 457.7377
SAMP 10247063011 - SMT PASI-WI



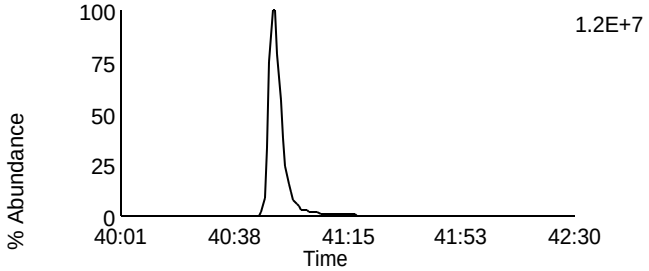
Data File: F131107A_10 G5 C5 - 443.7398
SAMP 10247063011 - SMT PASI-WI



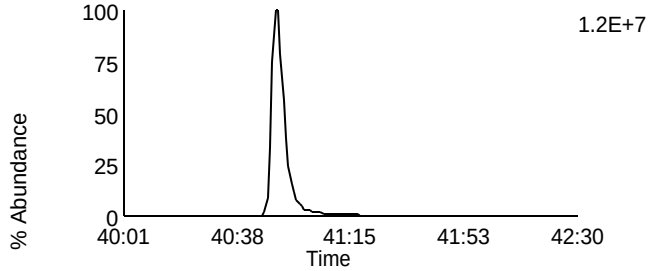
Data File: F131107A_10 G5 C9 - 459.7347
SAMP 10247063011 - SMT PASI-WI



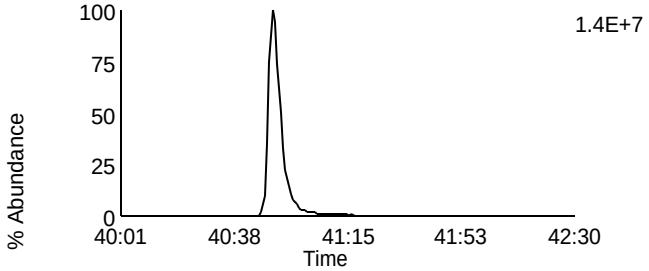
Data File: F131107A_10 G5 C11 - 469.7779
SAMP 10247063011 - SMT PASI-WI



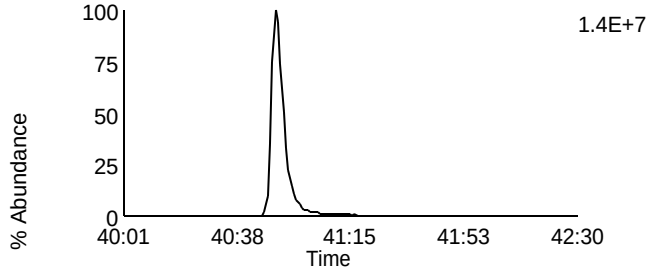
Data File: F131107A_10 G5 C11 - 469.7779
SAMP 10247063011 - SMT PASI-WI



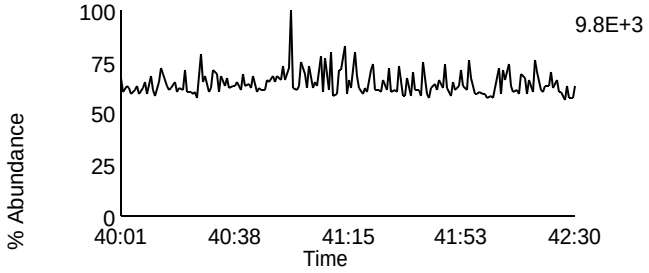
Data File: F131107A_10 G5 C12 - 471.7749
SAMP 10247063011 - SMT PASI-WI



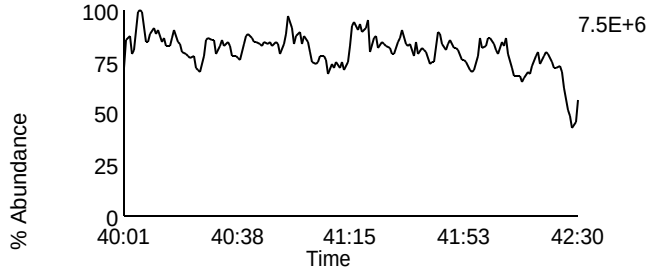
Data File: F131107A_10 G5 C12 - 471.7749
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G5 C13 - 513.6775
SAMP 10247063011 - SMT PASI-WI



Data File: F131107A_10 G5 C2 - 430.9728
SAMP 10247063011 - SMT PASI-WI

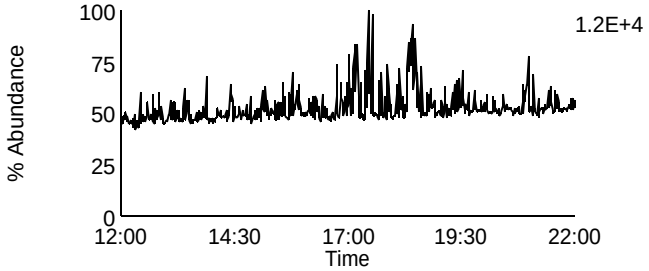


Homologue Group: Tetras

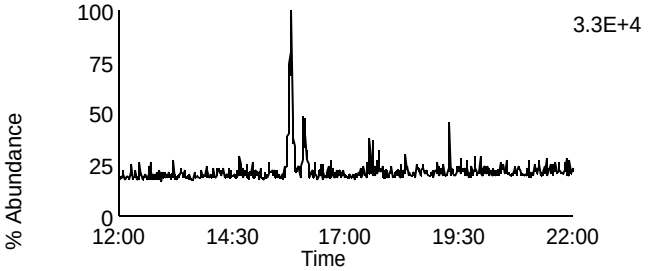
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

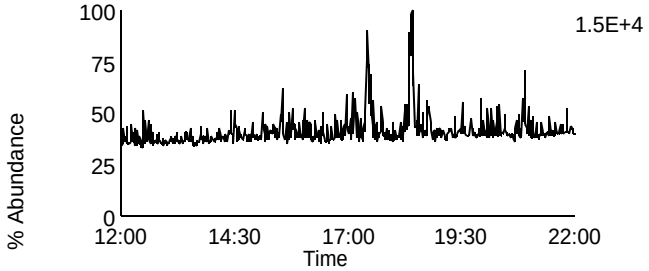
Data File: F131107A_11 G1 C1 - 303.9016
SAMP 10247063012 - SMT PASI-WI



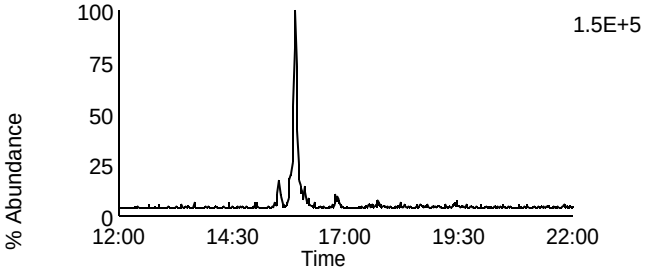
Data File: F131107A_11 G1 C7 - 319.8965
SAMP 10247063012 - SMT PASI-WI



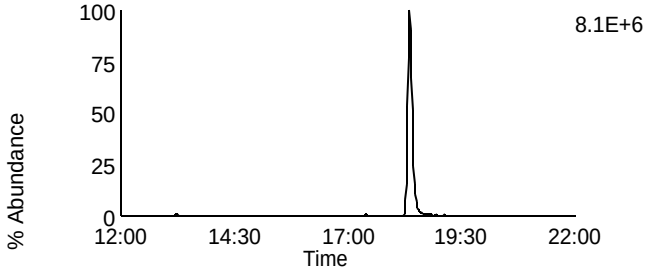
Data File: F131107A_11 G1 C2 - 305.8987
SAMP 10247063012 - SMT PASI-WI



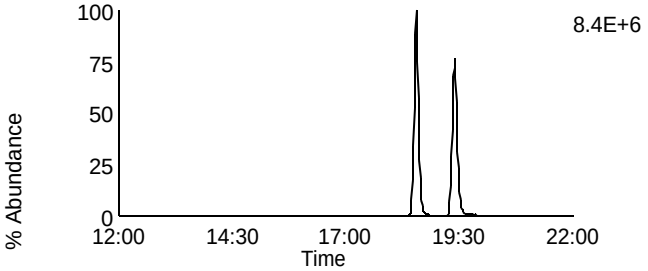
Data File: F131107A_11 G1 C8 - 321.8936
SAMP 10247063012 - SMT PASI-WI



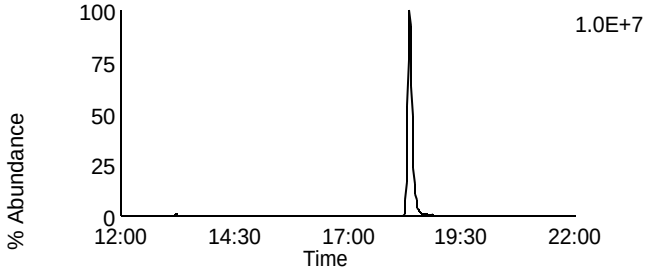
Data File: F131107A_11 G1 C3 - 315.9418
SAMP 10247063012 - SMT PASI-WI



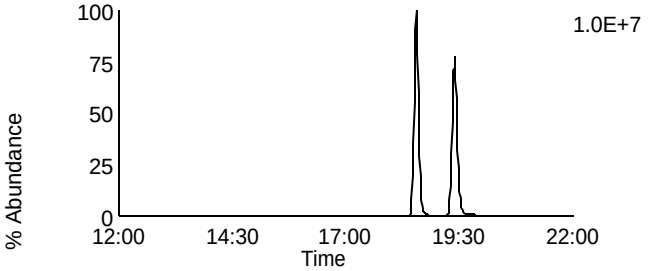
Data File: F131107A_11 G1 C10 - 331.9367
SAMP 10247063012 - SMT PASI-WI



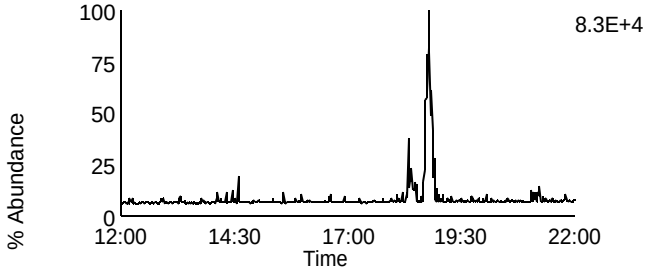
Data File: F131107A_11 G1 C4 - 317.9389
SAMP 10247063012 - SMT PASI-WI



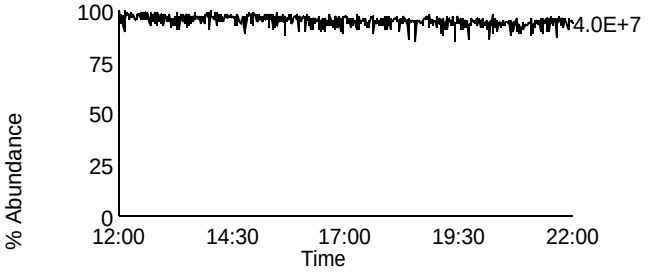
Data File: F131107A_11 G1 C11 - 333.9338
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G1 C14 - 375.8364
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G1 C5 - 318.9792
SAMP 10247063012 - SMT PASI-WI

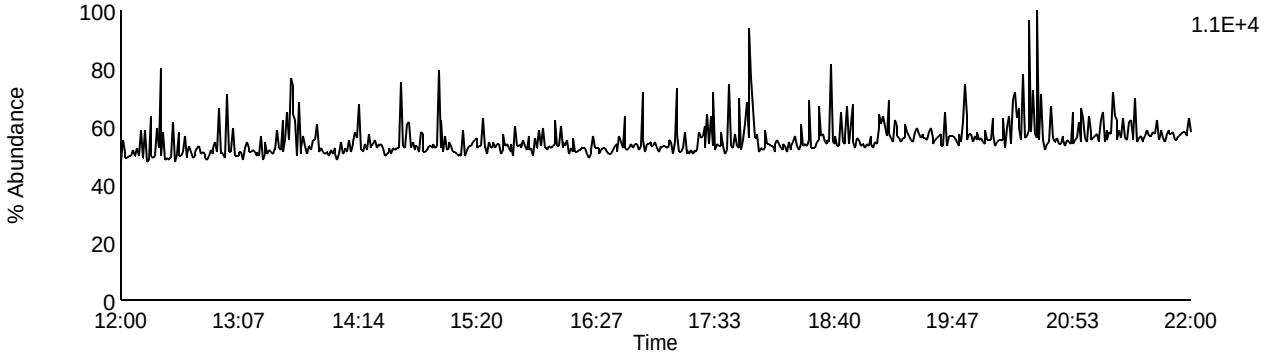


Homologue Group: Penta & Cleanup

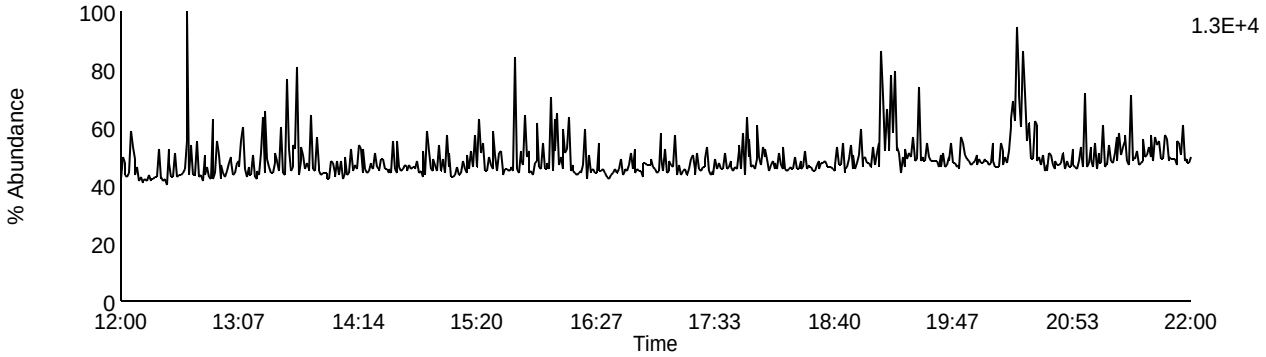
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

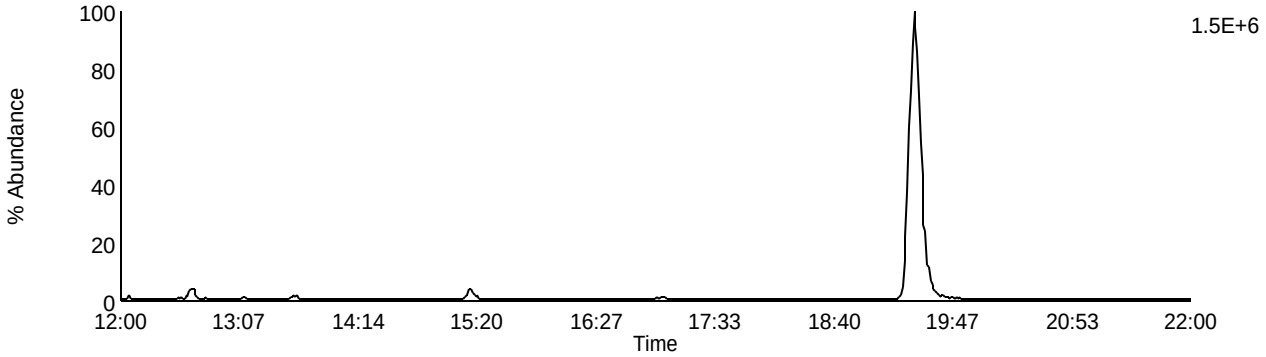
Data File: F131107A_11 G1 C12 - 339.8597
SAMP 10247063012 - SMT PASI-WI



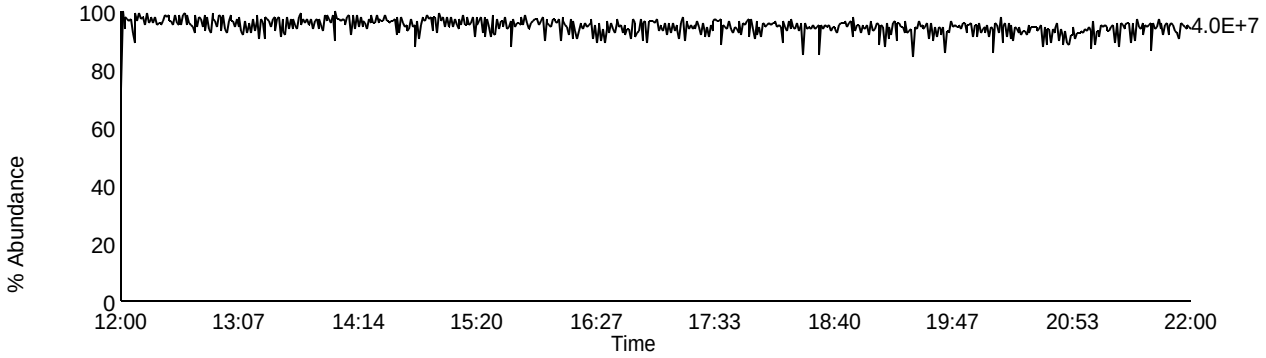
Data File: F131107A_11 G1 C13 - 341.8567
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G1 C9 - 327.8847
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G1 C5 - 318.9792
SAMP 10247063012 - SMT PASI-WI

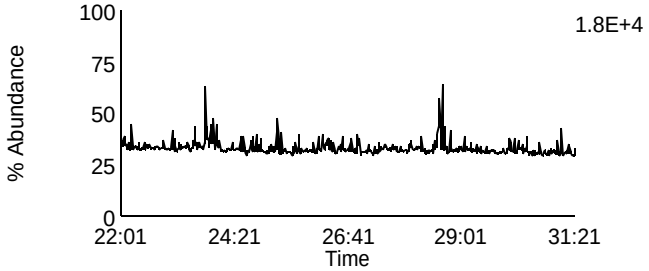


Homologue Group: Pentas

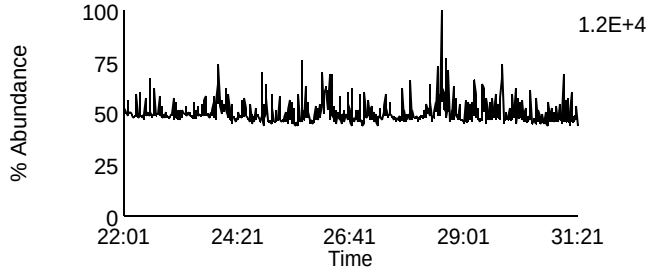
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

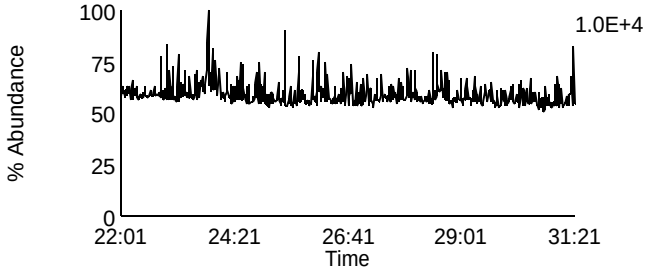
Data File: F131107A_11 G2 C1 - 339.8597
SAMP 10247063012 - SMT PASI-WI



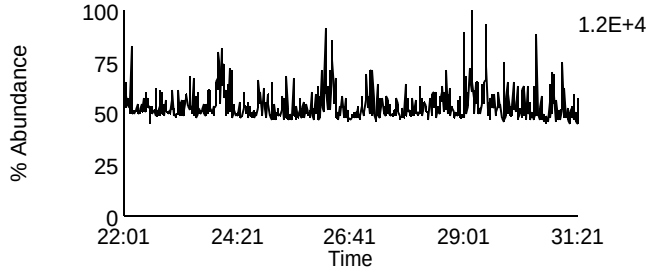
Data File: F131107A_11 G2 C4 - 353.8576
SAMP 10247063012 - SMT PASI-WI



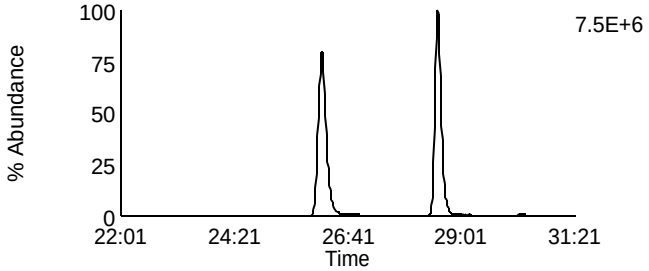
Data File: F131107A_11 G2 C2 - 341.8567
SAMP 10247063012 - SMT PASI-WI



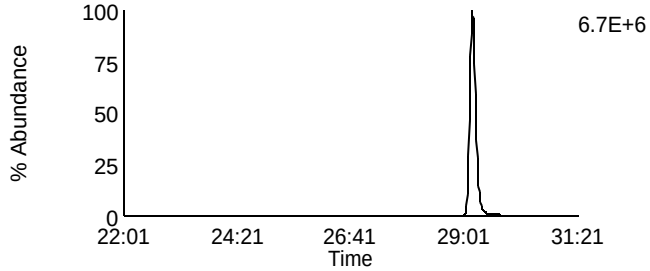
Data File: F131107A_11 G2 C8 - 355.8546
SAMP 10247063012 - SMT PASI-WI



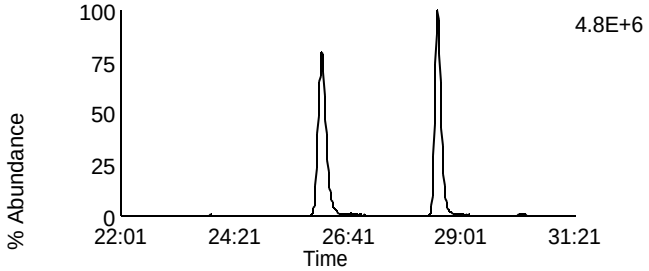
Data File: F131107A_11 G2 C3 - 351.8999
SAMP 10247063012 - SMT PASI-WI



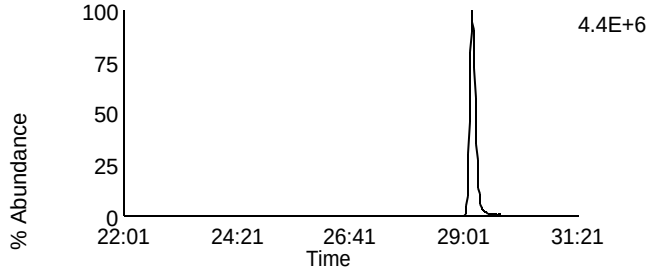
Data File: F131107A_11 G2 C10 - 367.8948
SAMP 10247063012 - SMT PASI-WI



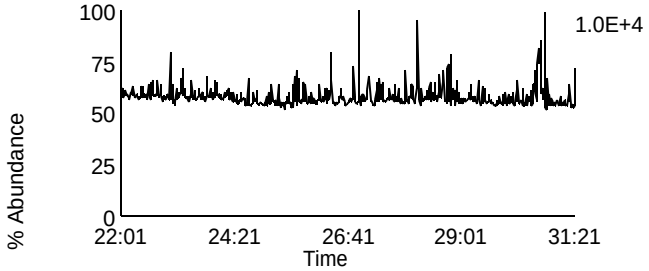
Data File: F131107A_11 G2 C5 - 353.8969
SAMP 10247063012 - SMT PASI-WI



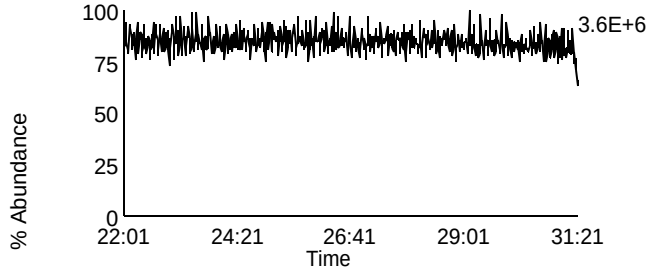
Data File: F131107A_11 G2 C11 - 369.8918
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G2 C12 - 409.7974
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G2 C6 - 354.9792
SAMP 10247063012 - SMT PASI-WI

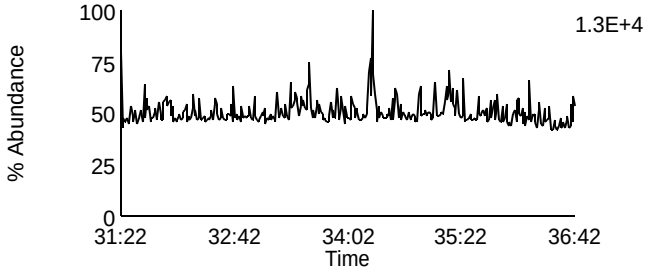


Homologue Group: Hexas

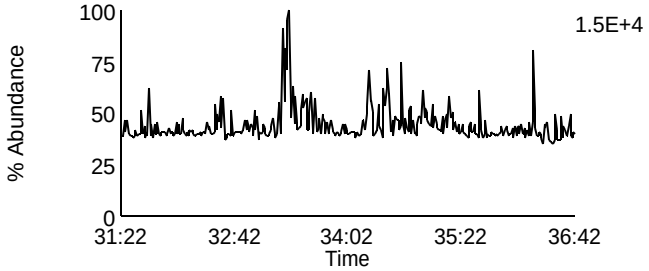
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

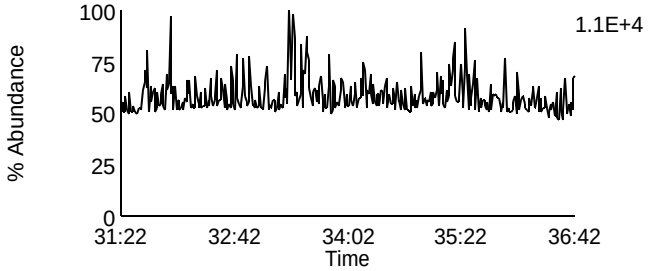
Data File: F131107A_11 G3 C1 - 373.8207
SAMP 10247063012 - SMT PASI-WI



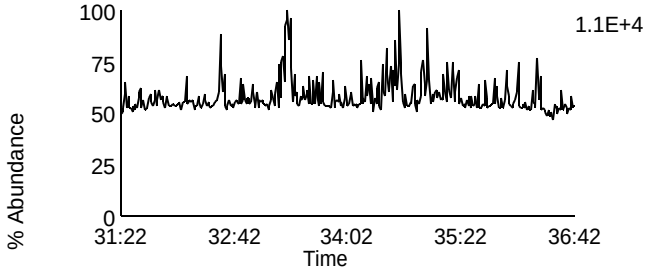
Data File: F131107A_11 G3 C7 - 389.8156
SAMP 10247063012 - SMT PASI-WI



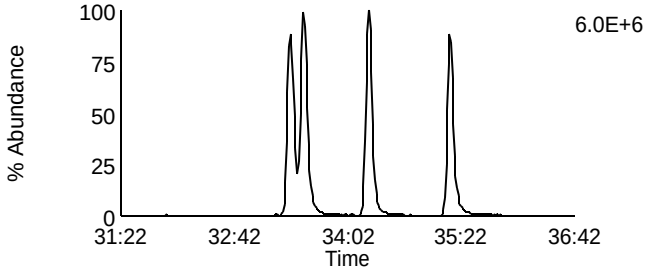
Data File: F131107A_11 G3 C2 - 375.8178
SAMP 10247063012 - SMT PASI-WI



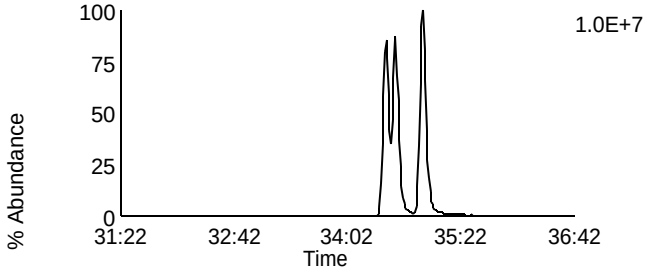
Data File: F131107A_11 G3 C8 - 391.8127
SAMP 10247063012 - SMT PASI-WI



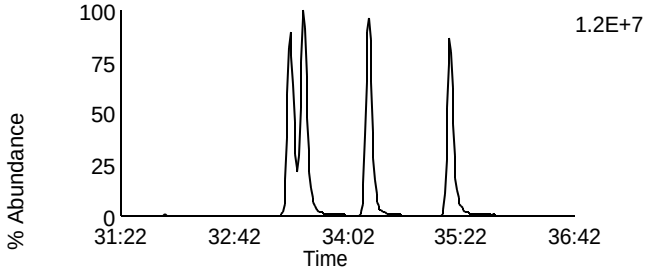
Data File: F131107A_11 G3 C5 - 383.8639
SAMP 10247063012 - SMT PASI-WI



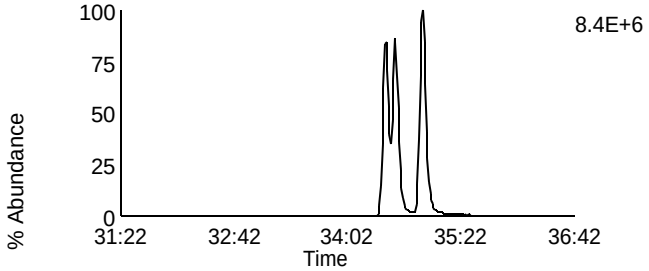
Data File: F131107A_11 G3 C9 - 401.8559
SAMP 10247063012 - SMT PASI-WI



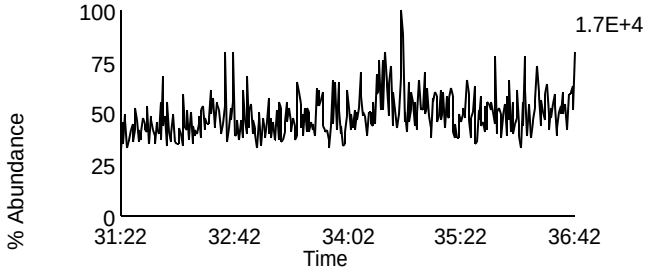
Data File: F131107A_11 G3 C6 - 385.861
SAMP 10247063012 - SMT PASI-WI



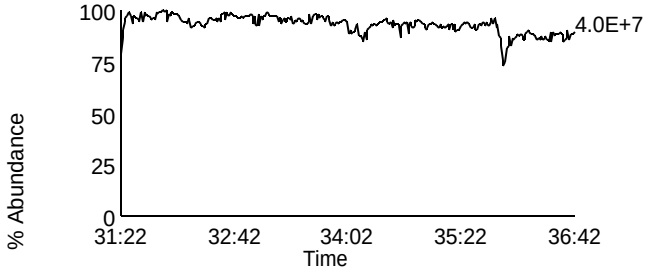
Data File: F131107A_11 G3 C10 - 403.8529
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G3 C11 - 445.7555
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G3 C3 - 380.976
SAMP 10247063012 - SMT PASI-WI

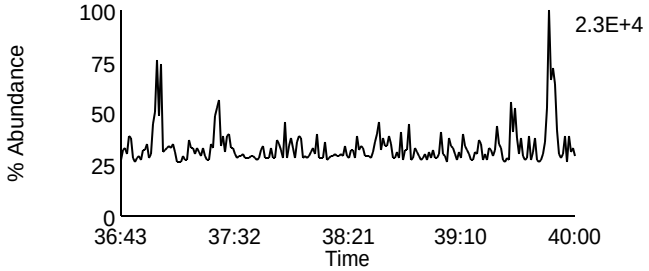


Homologue Group: Heptas

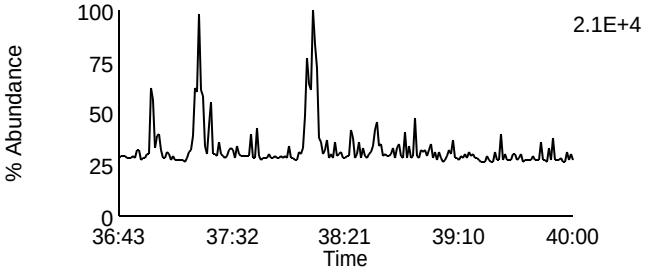
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

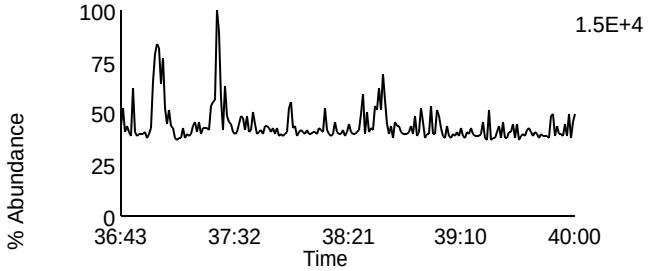
Data File: F131107A_11 G4 C3 - 407.7818
SAMP 10247063012 - SMT PASI-WI



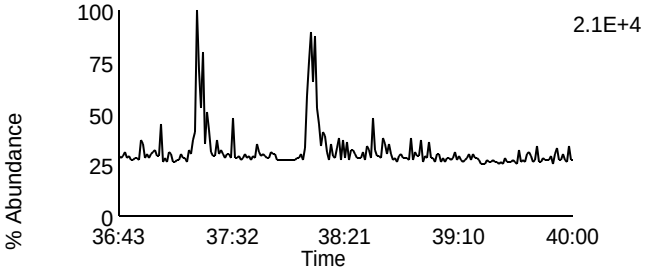
Data File: F131107A_11 G4 C8 - 423.7767
SAMP 10247063012 - SMT PASI-WI



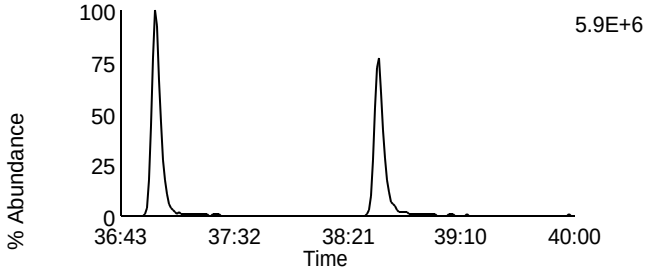
Data File: F131107A_11 G4 C4 - 409.7788
SAMP 10247063012 - SMT PASI-WI



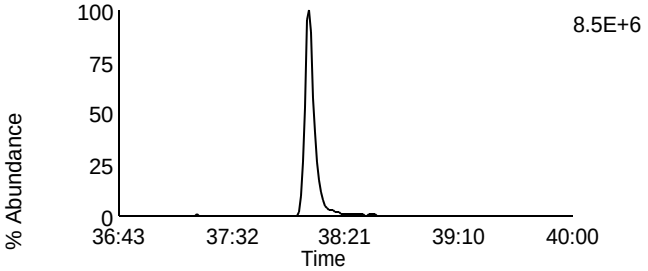
Data File: F131107A_11 G4 C9 - 425.7737
SAMP 10247063012 - SMT PASI-WI



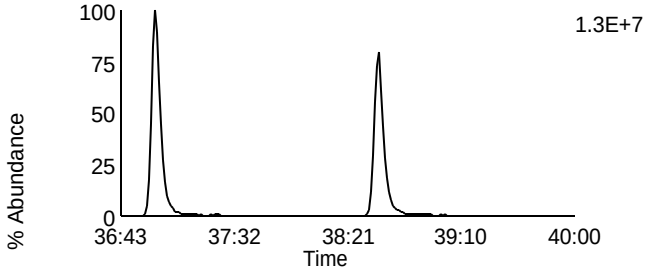
Data File: F131107A_11 G4 C6 - 417.825
SAMP 10247063012 - SMT PASI-WI



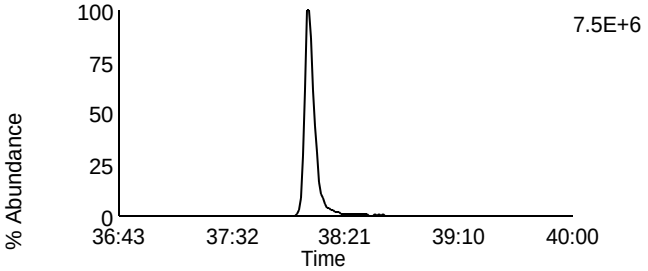
Data File: F131107A_11 G4 C11 - 435.8169
SAMP 10247063012 - SMT PASI-WI



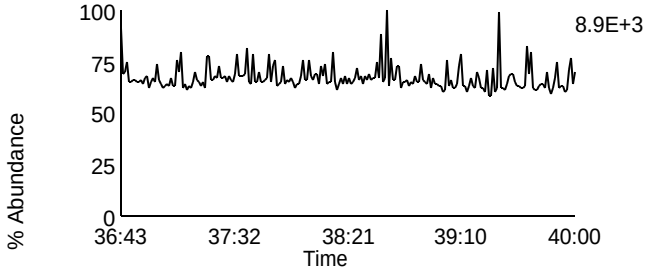
Data File: F131107A_11 G4 C7 - 419.822
SAMP 10247063012 - SMT PASI-WI



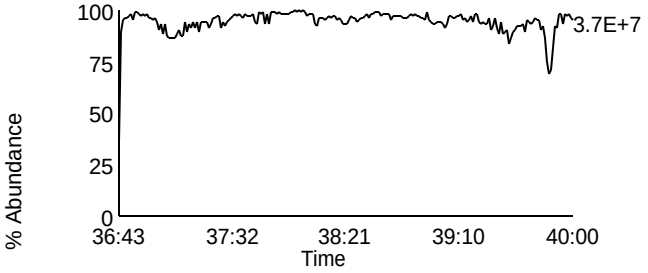
Data File: F131107A_11 G4 C12 - 437.814
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G4 C13 - 479.7165
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G4 C1 - 380.976
SAMP 10247063012 - SMT PASI-WI

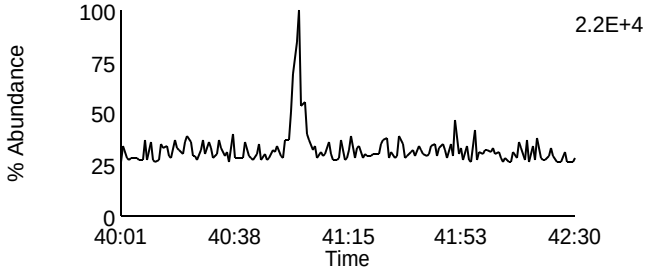


Homologue Group: Octas

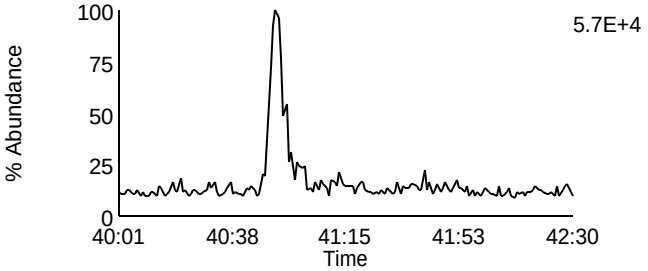
Data File Name: F131107A_11
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063012 - SMT PASI-WI

Lab Sample ID: 10247063012
Client Sample ID: MAK020O
Instrument: 10MSHR05 (F)

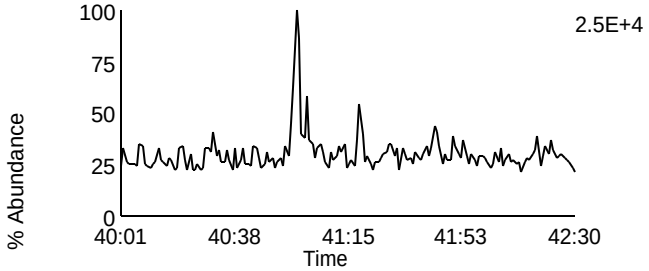
Data File: F131107A_11 G5 C4 - 441.7428
SAMP 10247063012 - SMT PASI-WI



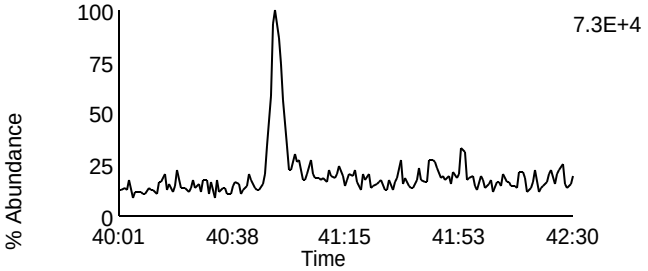
Data File: F131107A_11 G5 C8 - 457.7377
SAMP 10247063012 - SMT PASI-WI



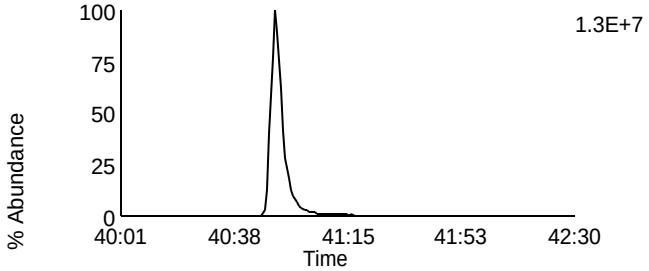
Data File: F131107A_11 G5 C5 - 443.7398
SAMP 10247063012 - SMT PASI-WI



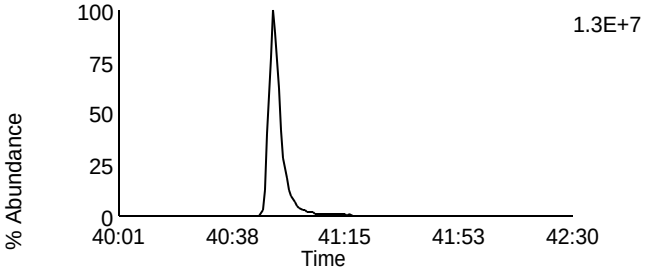
Data File: F131107A_11 G5 C9 - 459.7347
SAMP 10247063012 - SMT PASI-WI



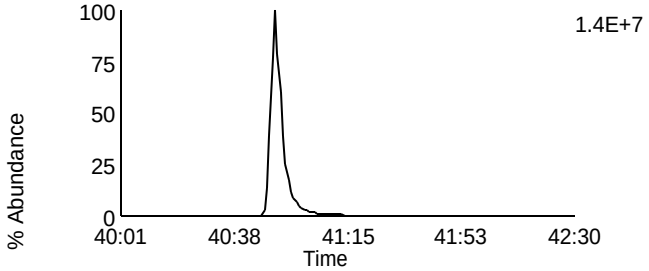
Data File: F131107A_11 G5 C11 - 469.7779
SAMP 10247063012 - SMT PASI-WI



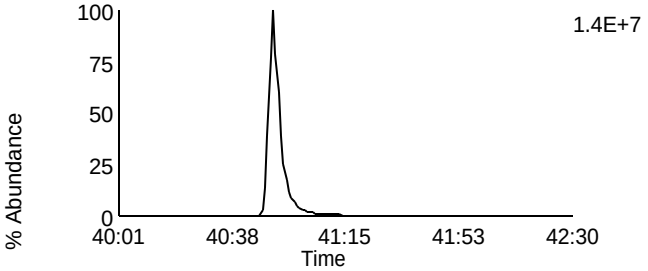
Data File: F131107A_11 G5 C11 - 469.7779
SAMP 10247063012 - SMT PASI-WI



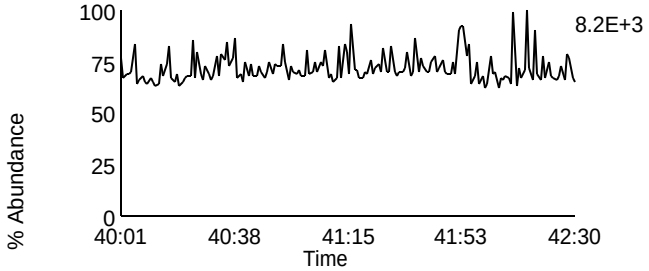
Data File: F131107A_11 G5 C12 - 471.7749
SAMP 10247063012 - SMT PASI-WI



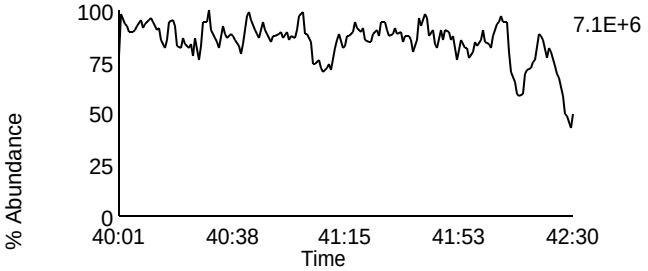
Data File: F131107A_11 G5 C12 - 471.7749
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G5 C13 - 513.6775
SAMP 10247063012 - SMT PASI-WI



Data File: F131107A_11 G5 C2 - 430.9728
SAMP 10247063012 - SMT PASI-WI

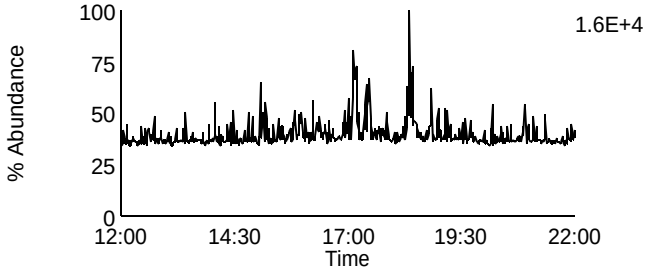


Homologue Group: Tetras

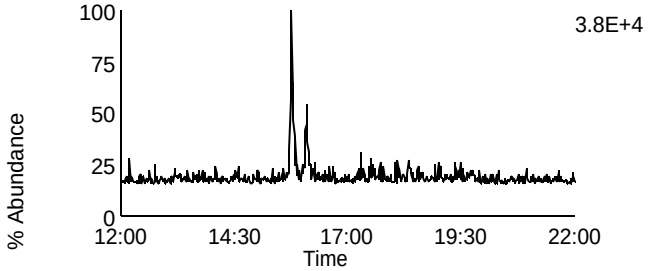
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

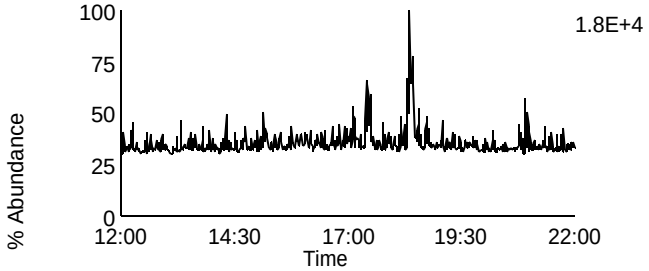
Data File: F131107A_12 G1 C1 - 303.9016
SAMP 10247063013 - SMT PASI-WI



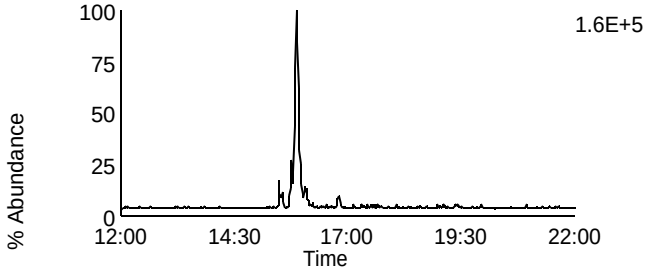
Data File: F131107A_12 G1 C7 - 319.8965
SAMP 10247063013 - SMT PASI-WI



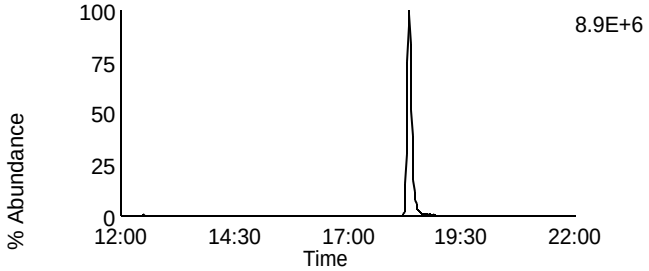
Data File: F131107A_12 G1 C2 - 305.8987
SAMP 10247063013 - SMT PASI-WI



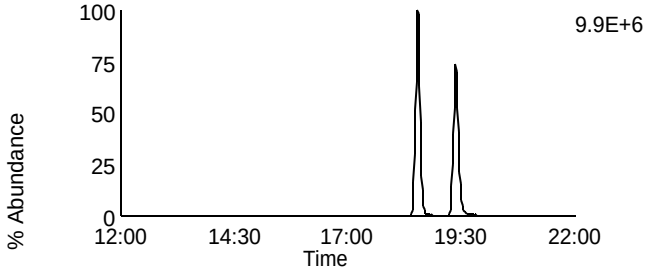
Data File: F131107A_12 G1 C8 - 321.8936
SAMP 10247063013 - SMT PASI-WI



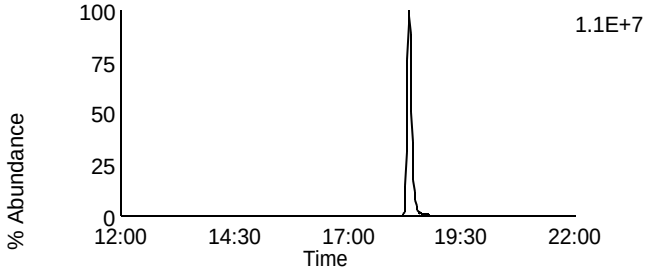
Data File: F131107A_12 G1 C3 - 315.9418
SAMP 10247063013 - SMT PASI-WI



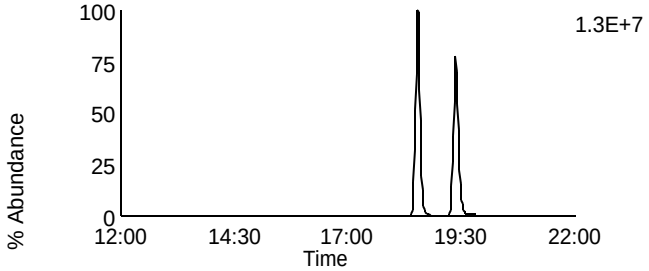
Data File: F131107A_12 G1 C10 - 331.9367
SAMP 10247063013 - SMT PASI-WI



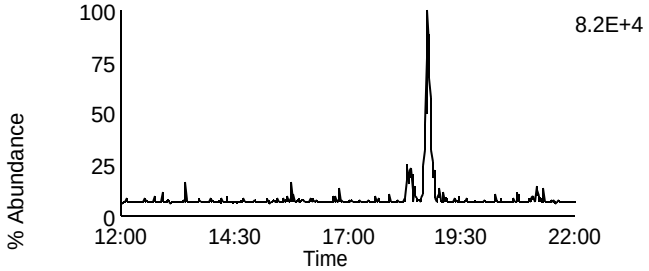
Data File: F131107A_12 G1 C4 - 317.9389
SAMP 10247063013 - SMT PASI-WI



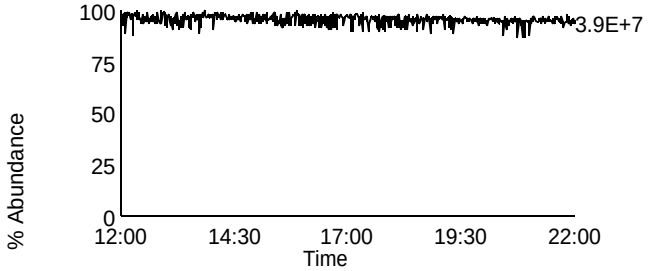
Data File: F131107A_12 G1 C11 - 333.9338
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G1 C14 - 375.8364
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G1 C5 - 318.9792
SAMP 10247063013 - SMT PASI-WI

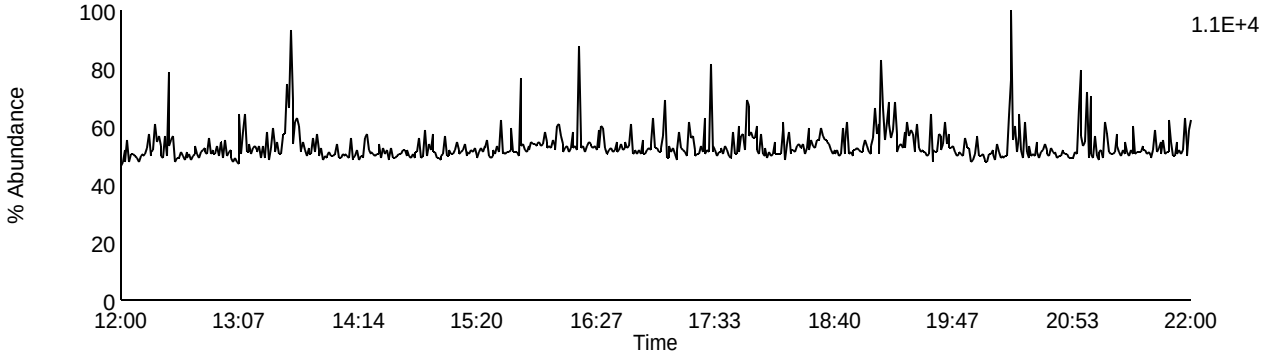


Homologue Group: Penta & Cleanup

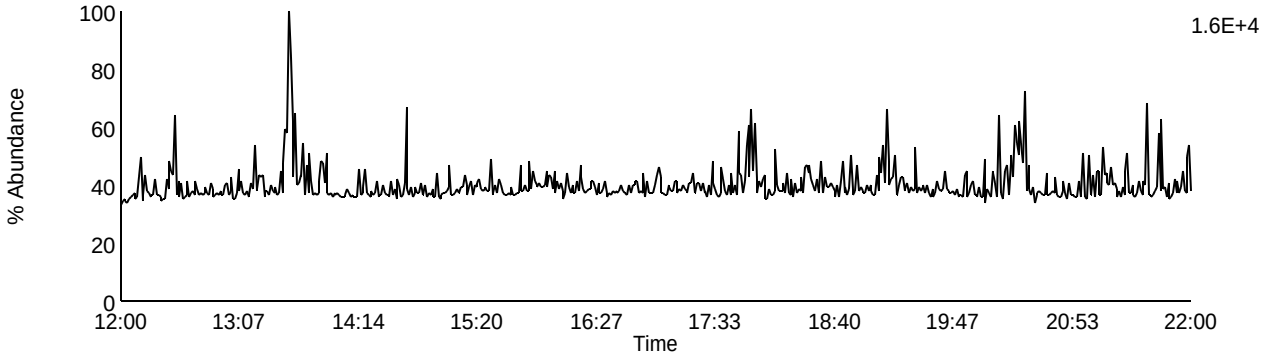
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

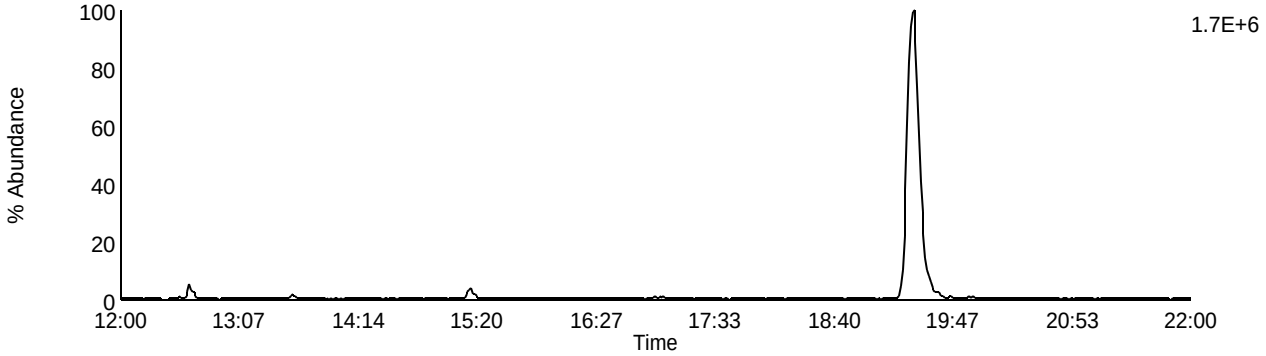
Data File: F131107A_12 G1 C12 - 339.8597
SAMP 10247063013 - SMT PASI-WI



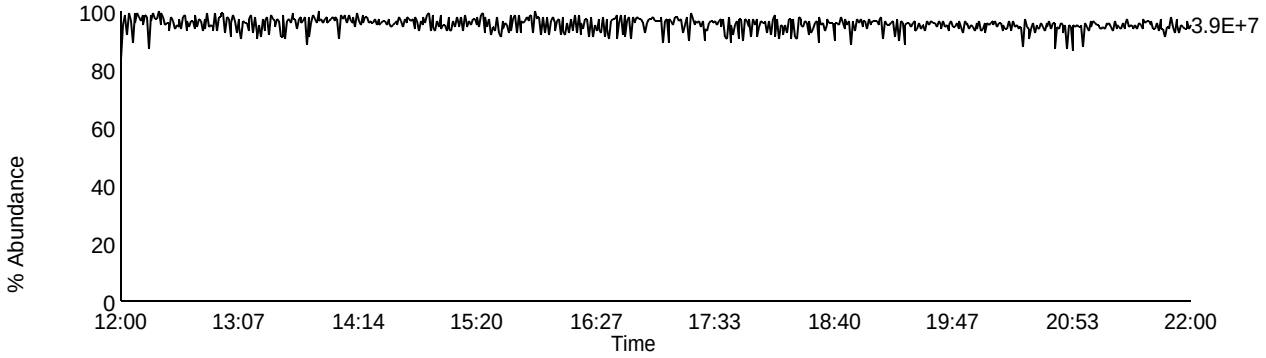
Data File: F131107A_12 G1 C13 - 341.8567
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G1 C9 - 327.8847
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G1 C5 - 318.9792
SAMP 10247063013 - SMT PASI-WI

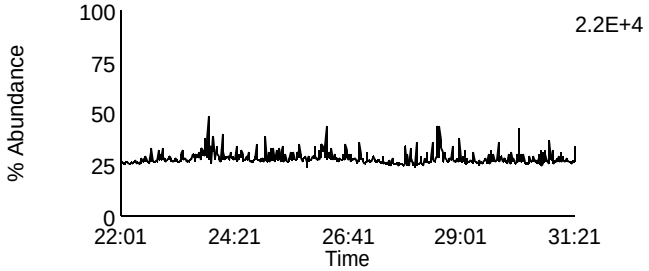


Homologue Group: Pentas

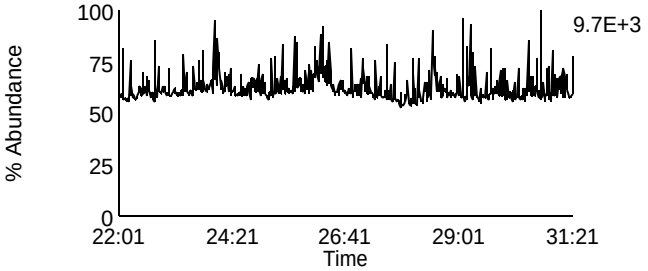
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

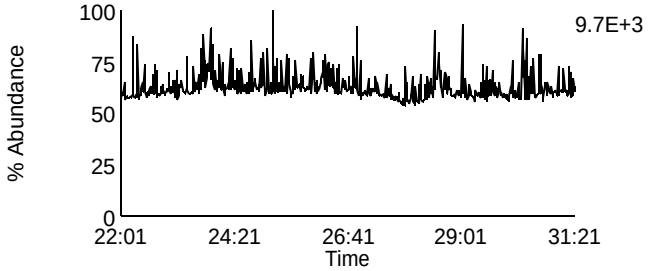
Data File: F131107A_12 G2 C1 - 339.8597
SAMP 10247063013 - SMT PASI-WI



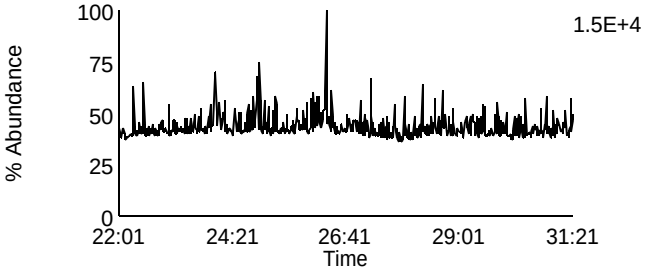
Data File: F131107A_12 G2 C4 - 353.8576
SAMP 10247063013 - SMT PASI-WI



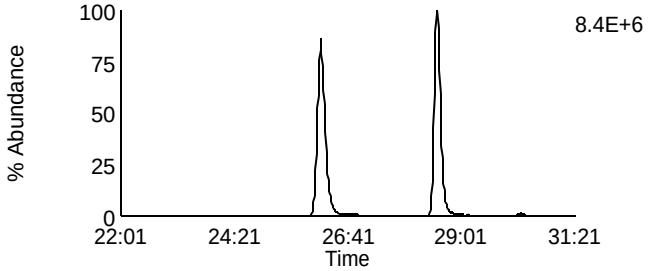
Data File: F131107A_12 G2 C2 - 341.8567
SAMP 10247063013 - SMT PASI-WI



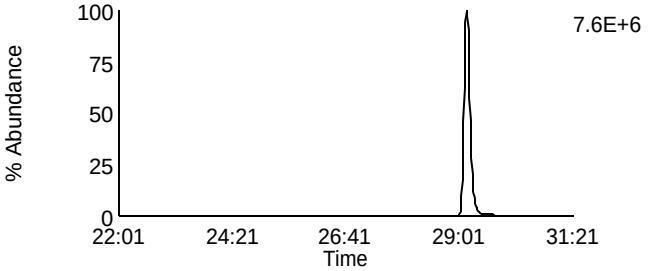
Data File: F131107A_12 G2 C8 - 355.8546
SAMP 10247063013 - SMT PASI-WI



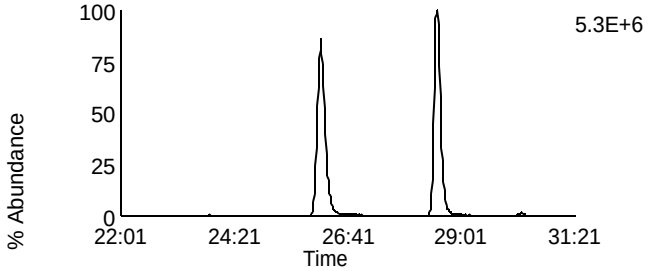
Data File: F131107A_12 G2 C3 - 351.8999
SAMP 10247063013 - SMT PASI-WI



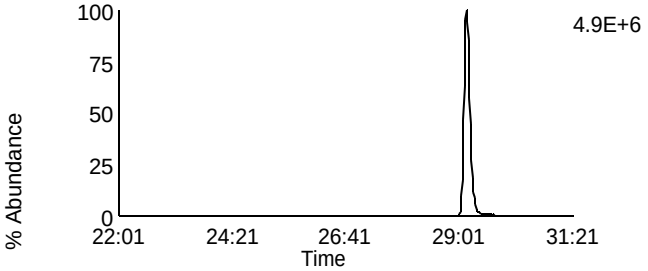
Data File: F131107A_12 G2 C10 - 367.8948
SAMP 10247063013 - SMT PASI-WI



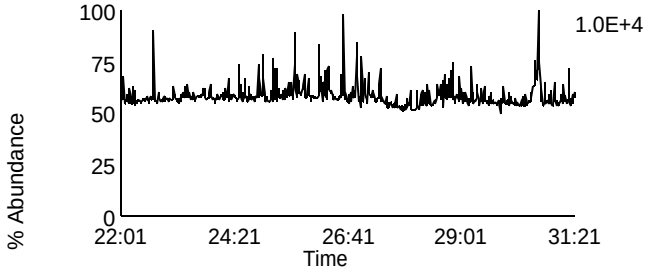
Data File: F131107A_12 G2 C5 - 353.8969
SAMP 10247063013 - SMT PASI-WI



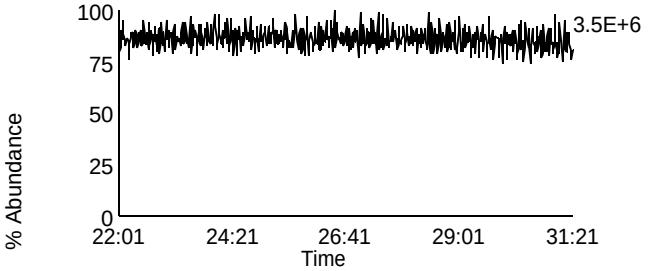
Data File: F131107A_12 G2 C11 - 369.8918
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G2 C12 - 409.7974
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G2 C6 - 354.9792
SAMP 10247063013 - SMT PASI-WI

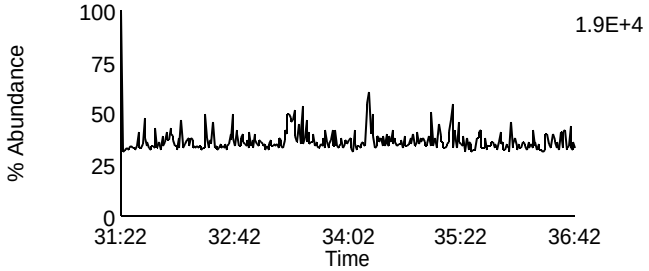


Homologue Group: Hexas

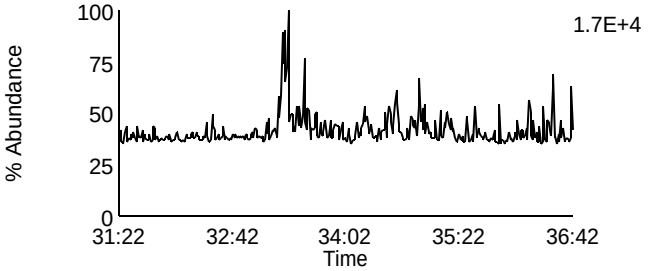
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

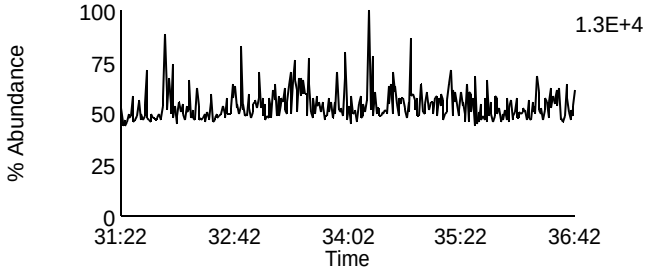
Data File: F131107A_12 G3 C1 - 373.8207
SAMP 10247063013 - SMT PASI-WI



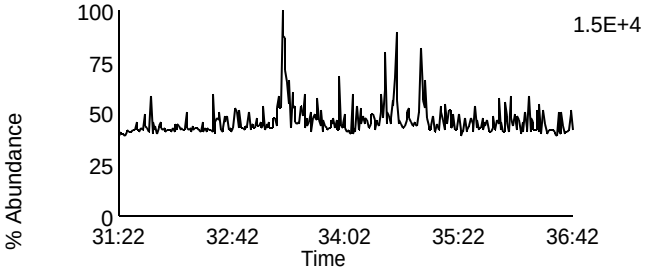
Data File: F131107A_12 G3 C7 - 389.8156
SAMP 10247063013 - SMT PASI-WI



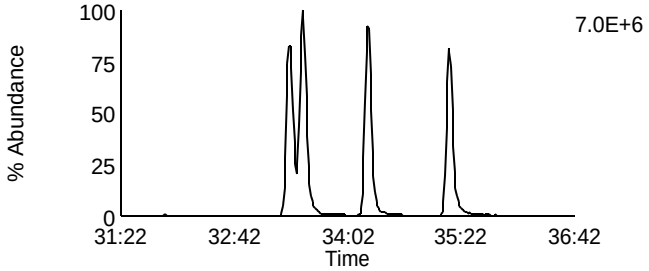
Data File: F131107A_12 G3 C2 - 375.8178
SAMP 10247063013 - SMT PASI-WI



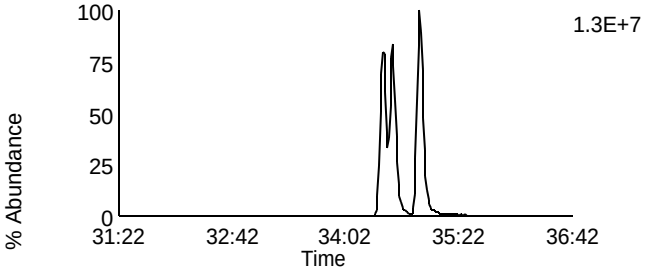
Data File: F131107A_12 G3 C8 - 391.8127
SAMP 10247063013 - SMT PASI-WI



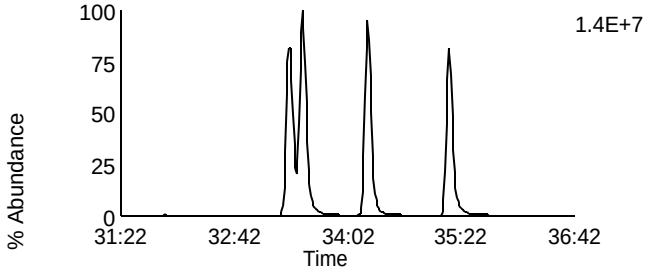
Data File: F131107A_12 G3 C5 - 383.8639
SAMP 10247063013 - SMT PASI-WI



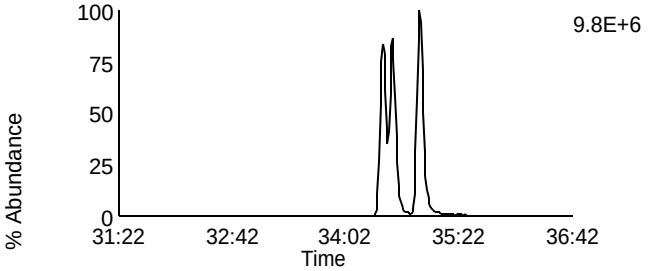
Data File: F131107A_12 G3 C9 - 401.8559
SAMP 10247063013 - SMT PASI-WI



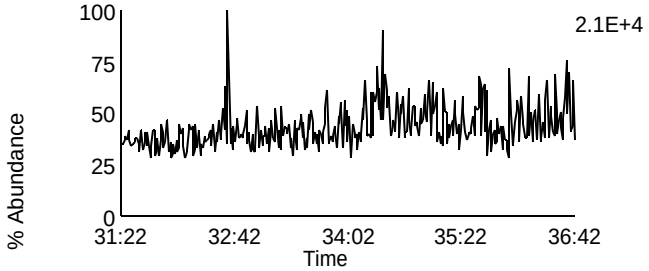
Data File: F131107A_12 G3 C6 - 385.861
SAMP 10247063013 - SMT PASI-WI



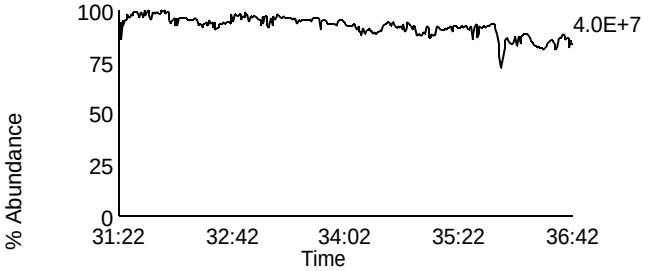
Data File: F131107A_12 G3 C10 - 403.8529
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G3 C11 - 445.7555
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G3 C3 - 380.976
SAMP 10247063013 - SMT PASI-WI

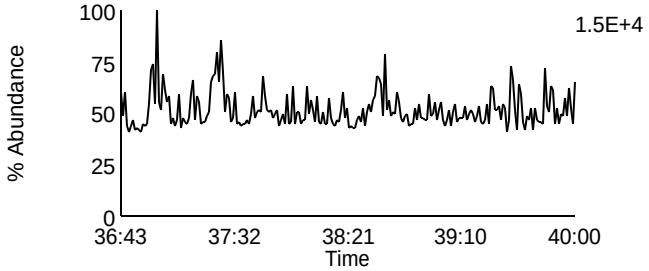


Homologue Group: Heptas

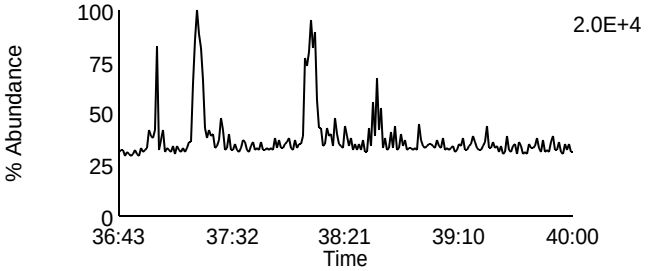
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

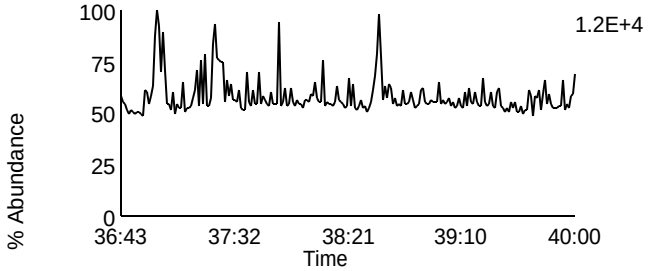
Data File: F131107A_12 G4 C3 - 407.7818
SAMP 10247063013 - SMT PASI-WI



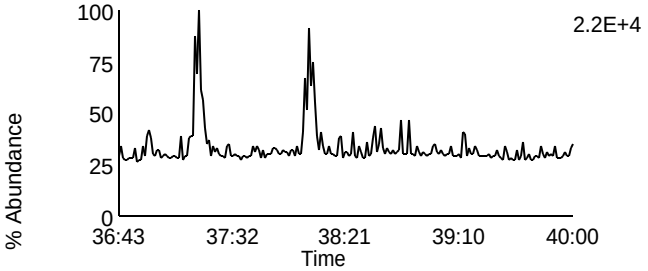
Data File: F131107A_12 G4 C8 - 423.7767
SAMP 10247063013 - SMT PASI-WI



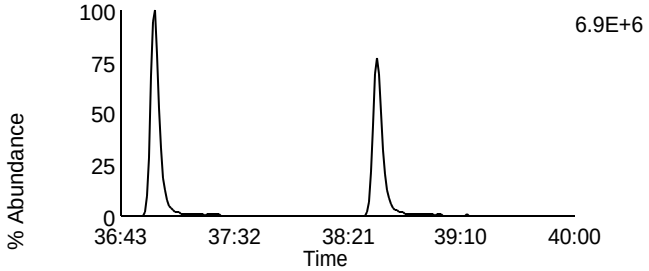
Data File: F131107A_12 G4 C4 - 409.7788
SAMP 10247063013 - SMT PASI-WI



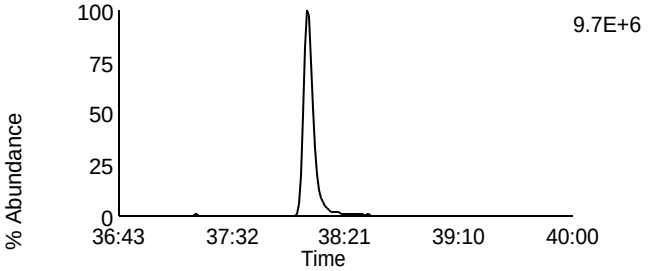
Data File: F131107A_12 G4 C9 - 425.7737
SAMP 10247063013 - SMT PASI-WI



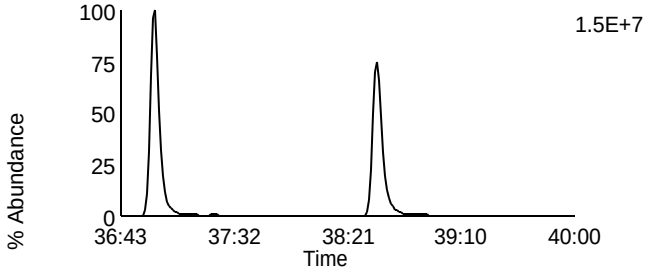
Data File: F131107A_12 G4 C6 - 417.825
SAMP 10247063013 - SMT PASI-WI



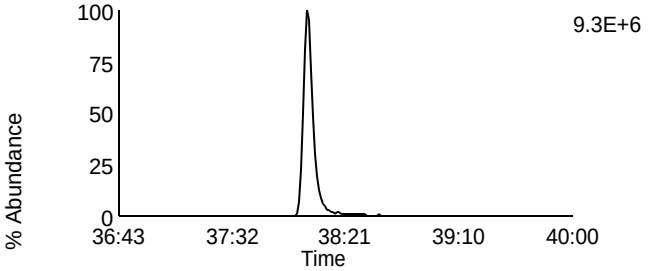
Data File: F131107A_12 G4 C11 - 435.8169
SAMP 10247063013 - SMT PASI-WI



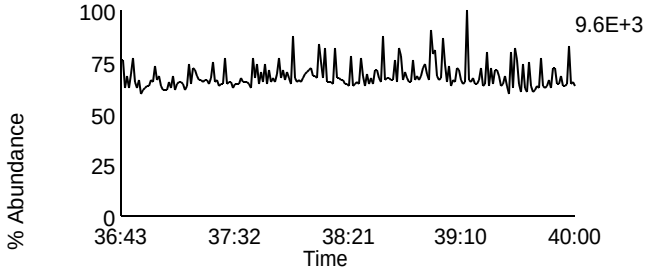
Data File: F131107A_12 G4 C7 - 419.822
SAMP 10247063013 - SMT PASI-WI



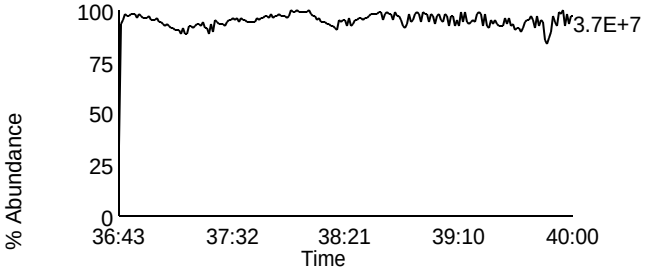
Data File: F131107A_12 G4 C12 - 437.814
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G4 C13 - 479.7165
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G4 C1 - 380.976
SAMP 10247063013 - SMT PASI-WI

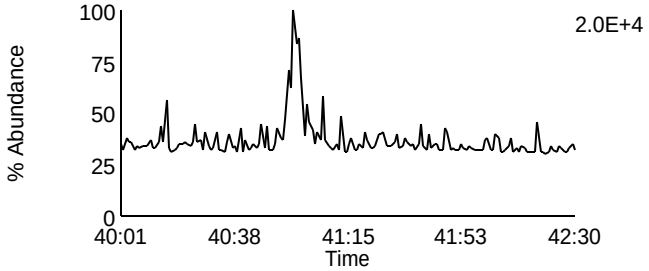


Homologue Group: Octas

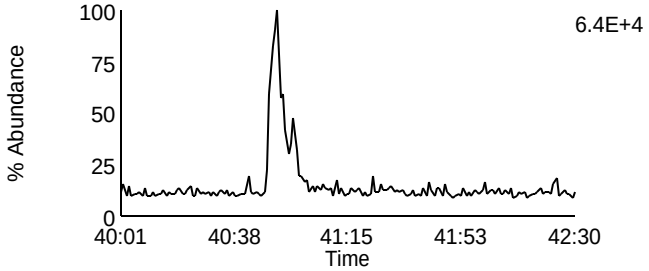
Data File Name: F131107A_12
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063013 - SMT PASI-WI

Lab Sample ID: 10247063013
Client Sample ID: MAK021O
Instrument: 10MSHR05 (F)

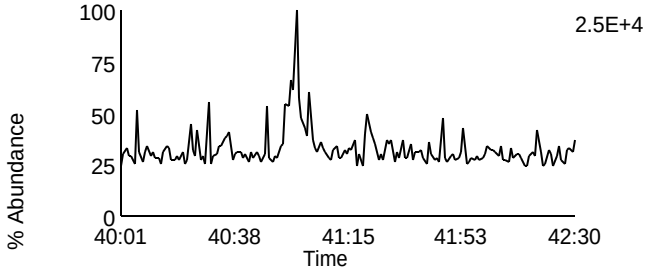
Data File: F131107A_12 G5 C4 - 441.7428
SAMP 10247063013 - SMT PASI-WI



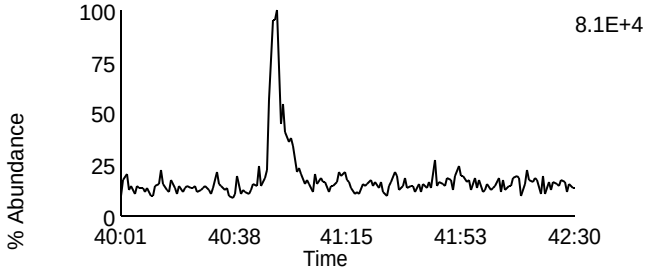
Data File: F131107A_12 G5 C8 - 457.7377
SAMP 10247063013 - SMT PASI-WI



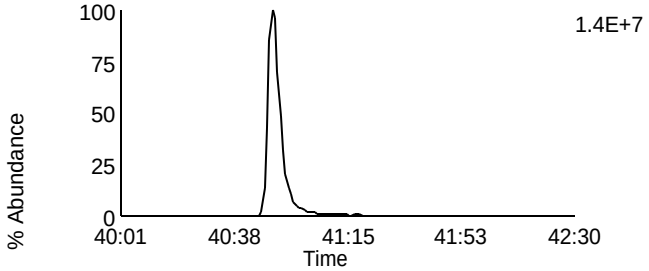
Data File: F131107A_12 G5 C5 - 443.7398
SAMP 10247063013 - SMT PASI-WI



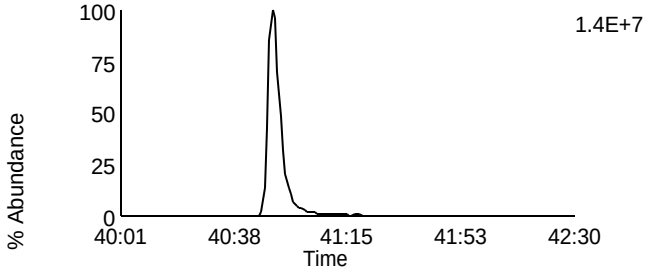
Data File: F131107A_12 G5 C9 - 459.7347
SAMP 10247063013 - SMT PASI-WI



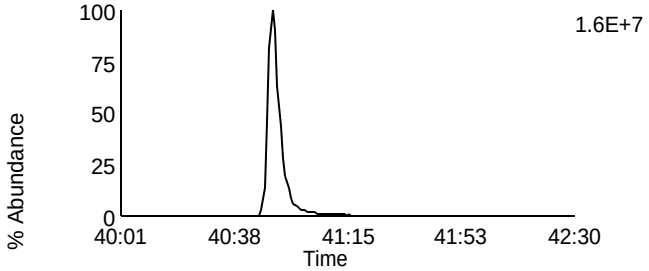
Data File: F131107A_12 G5 C11 - 469.7779
SAMP 10247063013 - SMT PASI-WI



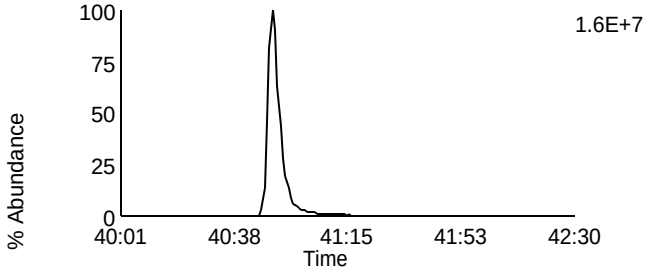
Data File: F131107A_12 G5 C11 - 469.7779
SAMP 10247063013 - SMT PASI-WI



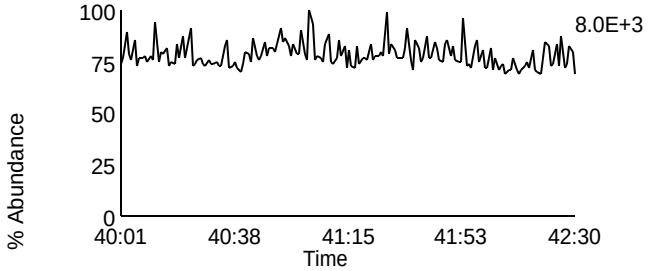
Data File: F131107A_12 G5 C12 - 471.7749
SAMP 10247063013 - SMT PASI-WI



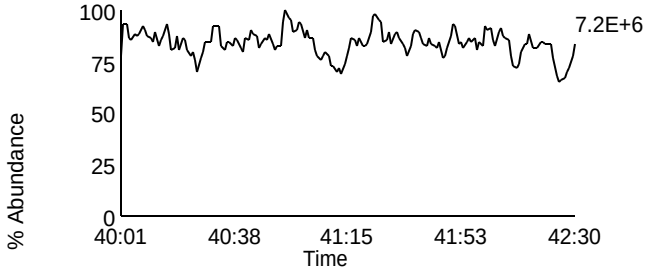
Data File: F131107A_12 G5 C12 - 471.7749
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G5 C13 - 513.6775
SAMP 10247063013 - SMT PASI-WI



Data File: F131107A_12 G5 C2 - 430.9728
SAMP 10247063013 - SMT PASI-WI

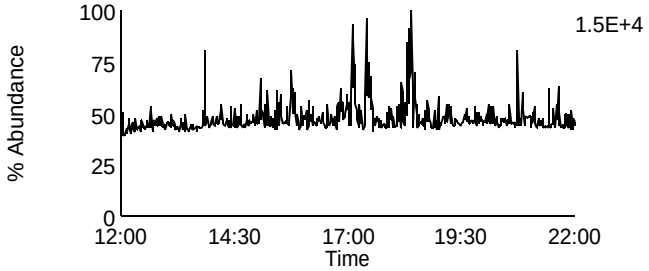


Homologue Group: Tetras

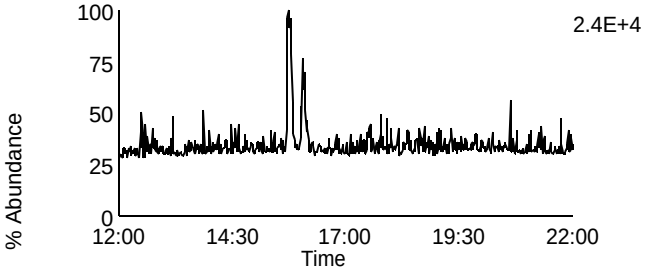
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

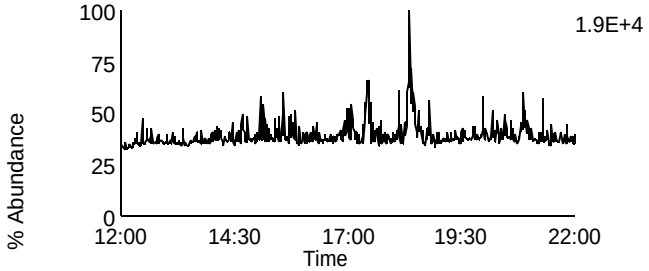
Data File: F131107A_13 G1 C1 - 303.9016
SAMP 10247063014 - SMT PASI-WI



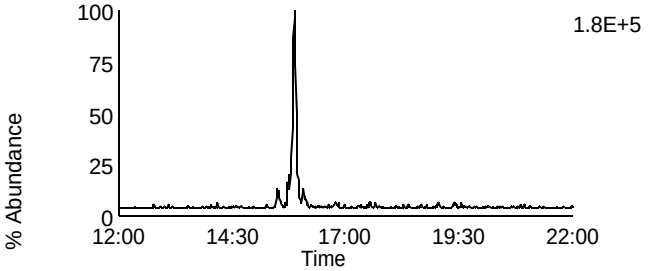
Data File: F131107A_13 G1 C7 - 319.8965
SAMP 10247063014 - SMT PASI-WI



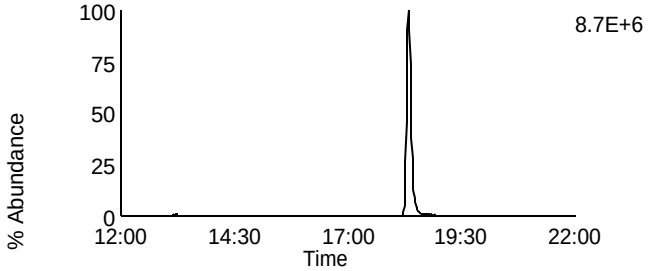
Data File: F131107A_13 G1 C2 - 305.8987
SAMP 10247063014 - SMT PASI-WI



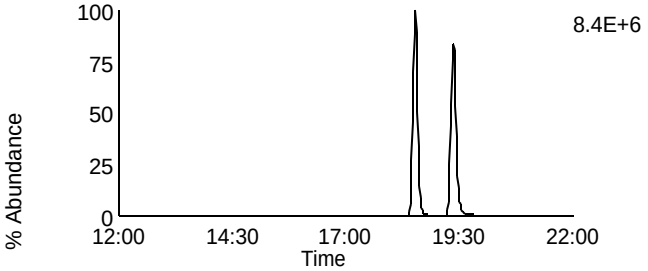
Data File: F131107A_13 G1 C8 - 321.8936
SAMP 10247063014 - SMT PASI-WI



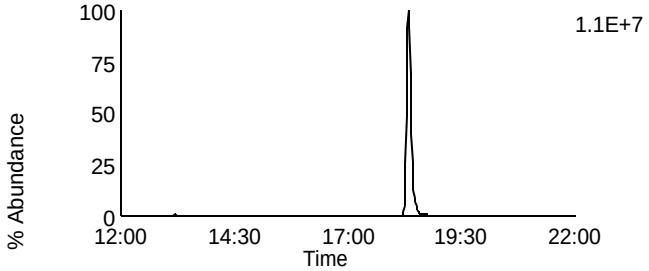
Data File: F131107A_13 G1 C3 - 315.9418
SAMP 10247063014 - SMT PASI-WI



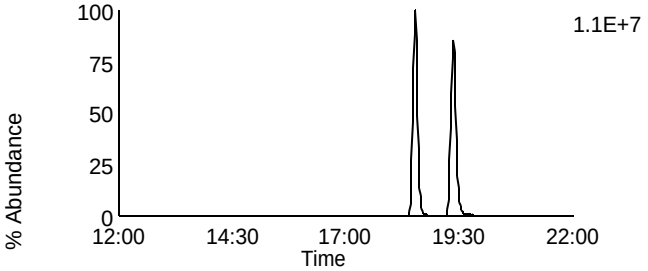
Data File: F131107A_13 G1 C10 - 331.9367
SAMP 10247063014 - SMT PASI-WI



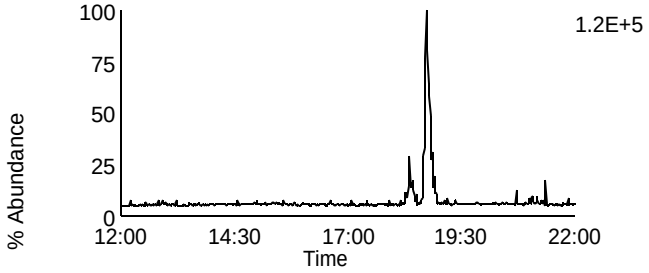
Data File: F131107A_13 G1 C4 - 317.9389
SAMP 10247063014 - SMT PASI-WI



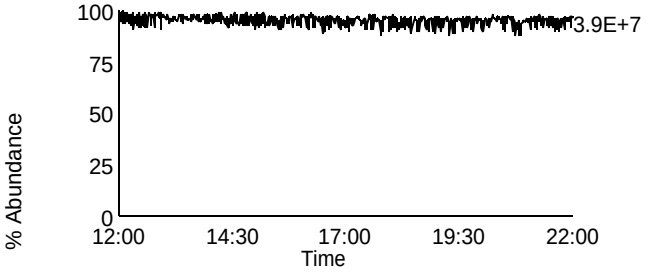
Data File: F131107A_13 G1 C11 - 333.9338
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G1 C14 - 375.8364
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G1 C5 - 318.9792
SAMP 10247063014 - SMT PASI-WI

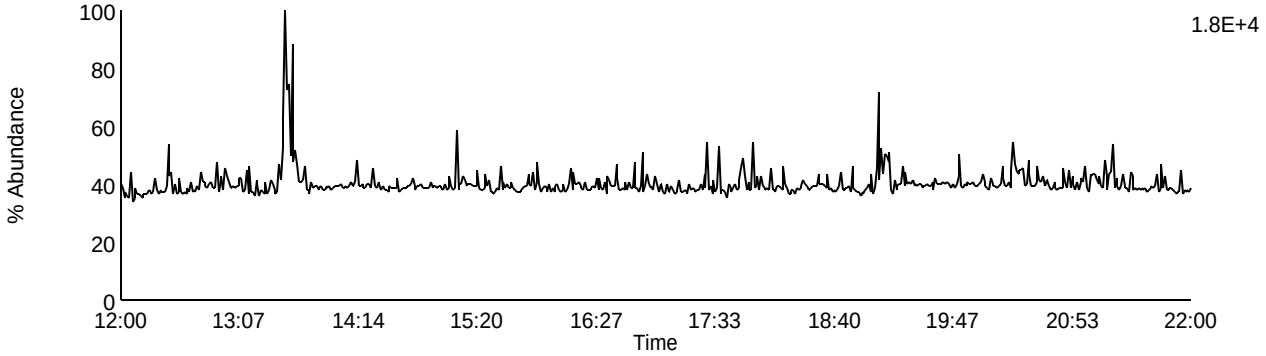


Homologue Group: Penta & Cleanup

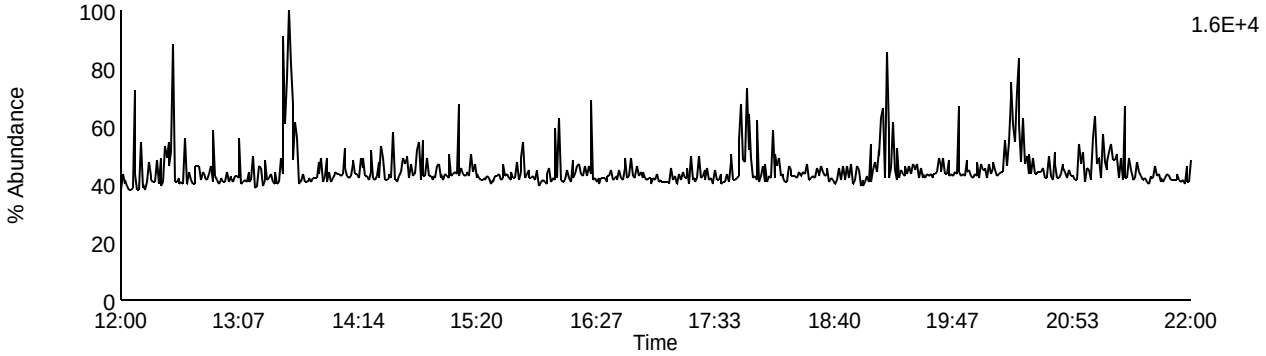
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

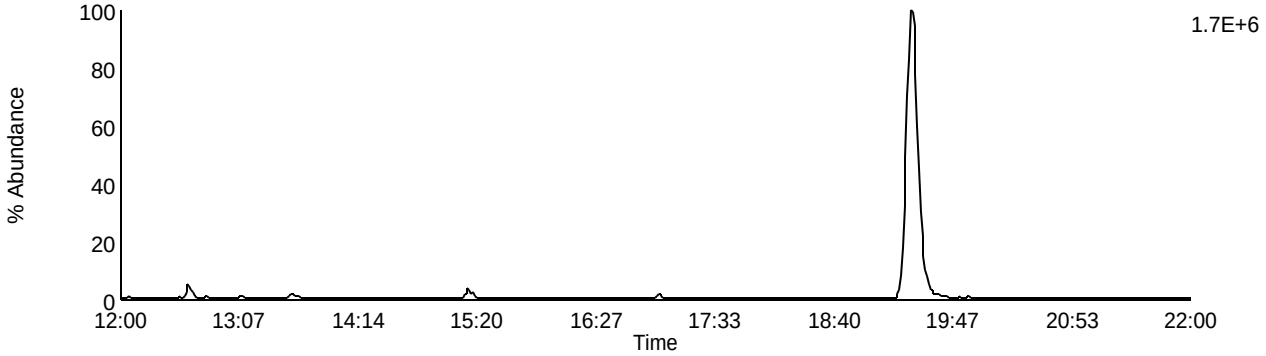
Data File: F131107A_13 G1 C12 - 339.8597
SAMP 10247063014 - SMT PASI-WI



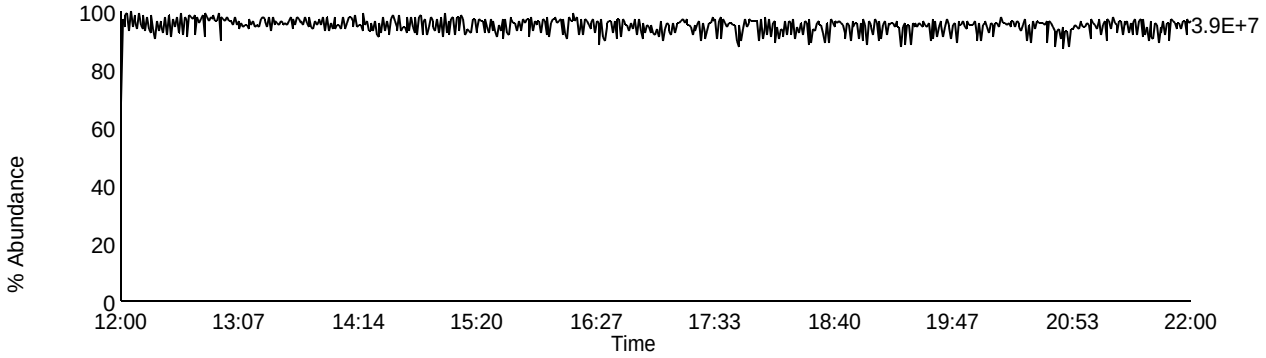
Data File: F131107A_13 G1 C13 - 341.8567
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G1 C9 - 327.8847
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G1 C5 - 318.9792
SAMP 10247063014 - SMT PASI-WI

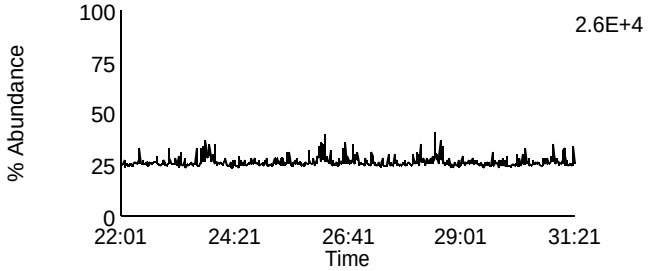


Homologue Group: Pentas

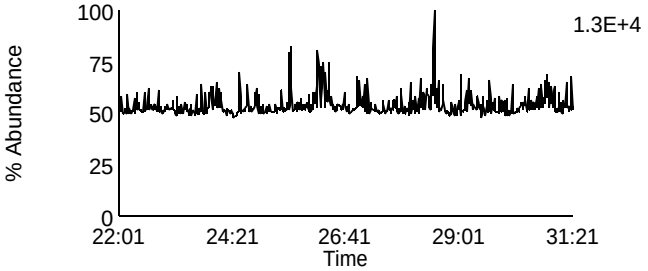
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

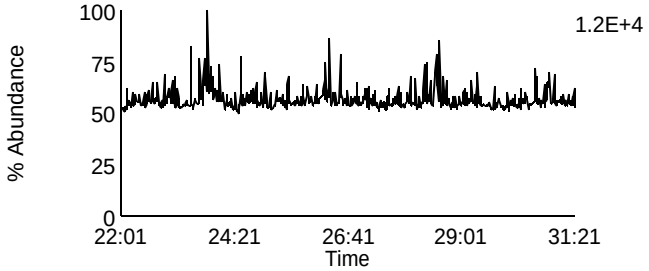
Data File: F131107A_13 G2 C1 - 339.8597
SAMP 10247063014 - SMT PASI-WI



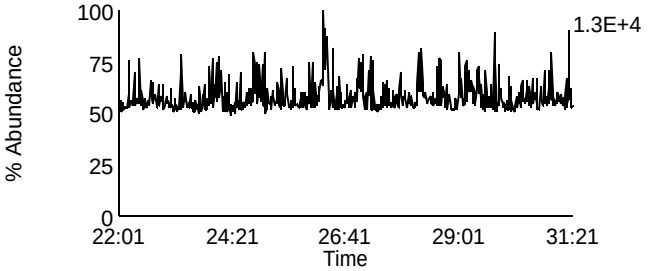
Data File: F131107A_13 G2 C4 - 353.8576
SAMP 10247063014 - SMT PASI-WI



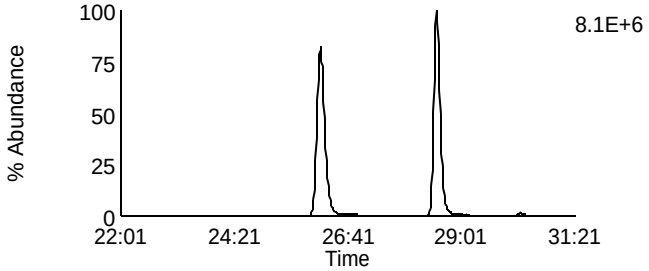
Data File: F131107A_13 G2 C2 - 341.8567
SAMP 10247063014 - SMT PASI-WI



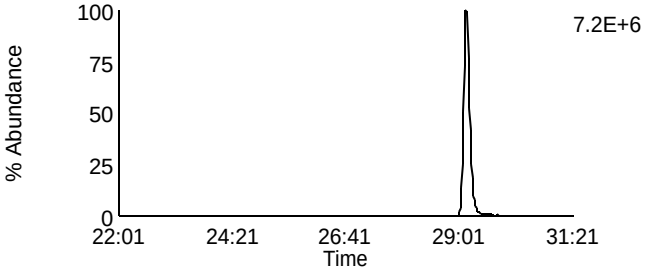
Data File: F131107A_13 G2 C8 - 355.8546
SAMP 10247063014 - SMT PASI-WI



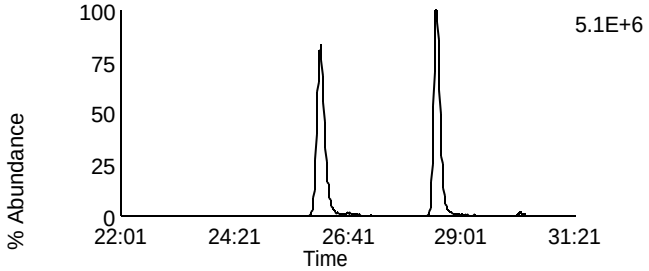
Data File: F131107A_13 G2 C3 - 351.8999
SAMP 10247063014 - SMT PASI-WI



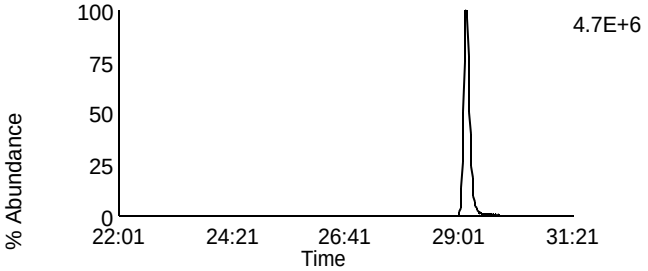
Data File: F131107A_13 G2 C10 - 367.8948
SAMP 10247063014 - SMT PASI-WI



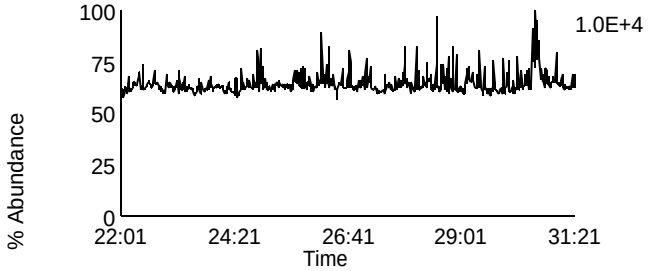
Data File: F131107A_13 G2 C5 - 353.8969
SAMP 10247063014 - SMT PASI-WI



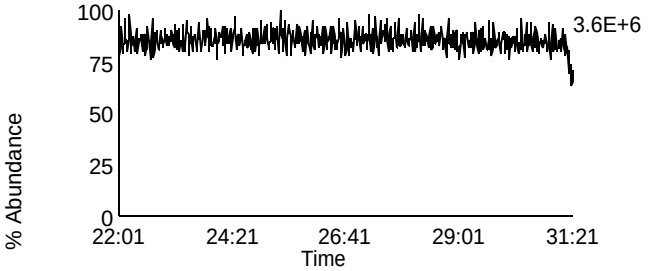
Data File: F131107A_13 G2 C11 - 369.8918
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G2 C12 - 409.7974
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G2 C6 - 354.9792
SAMP 10247063014 - SMT PASI-WI

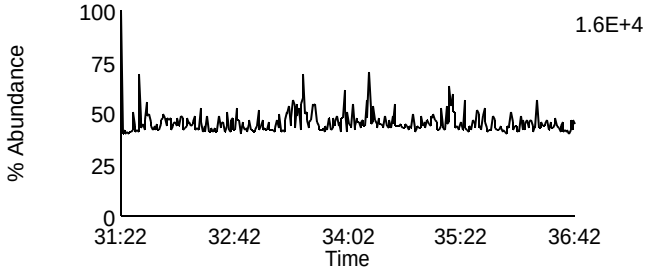


Homologue Group: Hexas

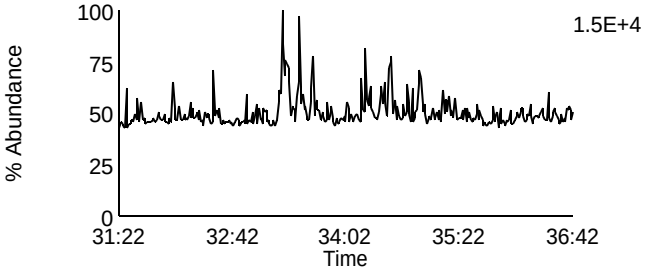
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

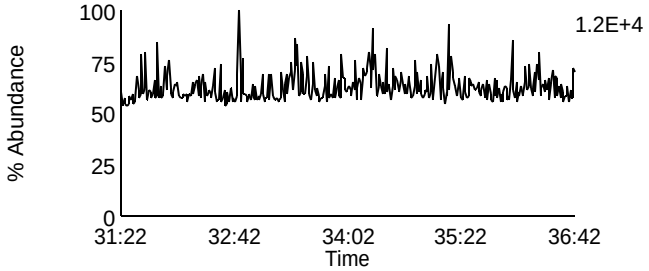
Data File: F131107A_13 G3 C1 - 373.8207
SAMP 10247063014 - SMT PASI-WI



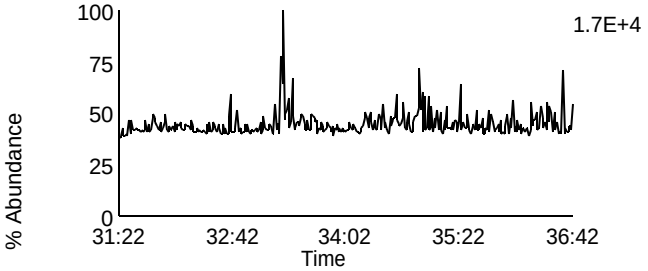
Data File: F131107A_13 G3 C7 - 389.8156
SAMP 10247063014 - SMT PASI-WI



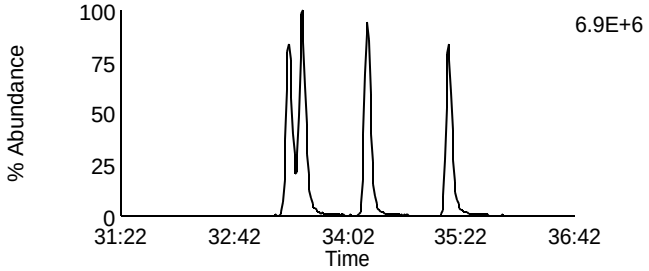
Data File: F131107A_13 G3 C2 - 375.8178
SAMP 10247063014 - SMT PASI-WI



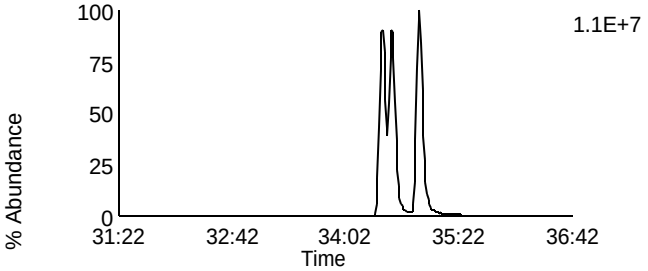
Data File: F131107A_13 G3 C8 - 391.8127
SAMP 10247063014 - SMT PASI-WI



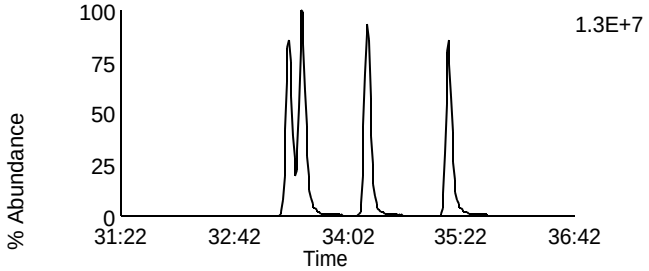
Data File: F131107A_13 G3 C5 - 383.8639
SAMP 10247063014 - SMT PASI-WI



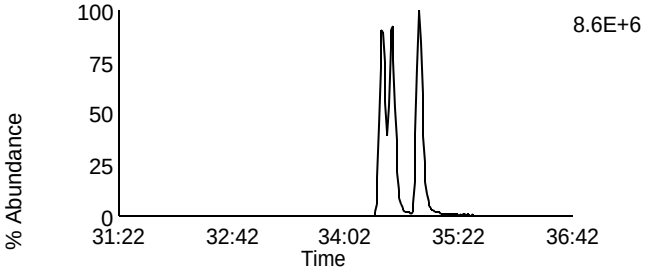
Data File: F131107A_13 G3 C9 - 401.8559
SAMP 10247063014 - SMT PASI-WI



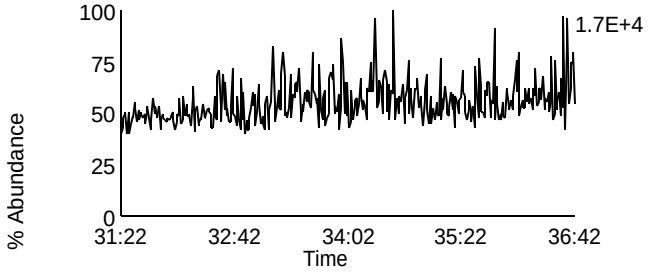
Data File: F131107A_13 G3 C6 - 385.861
SAMP 10247063014 - SMT PASI-WI



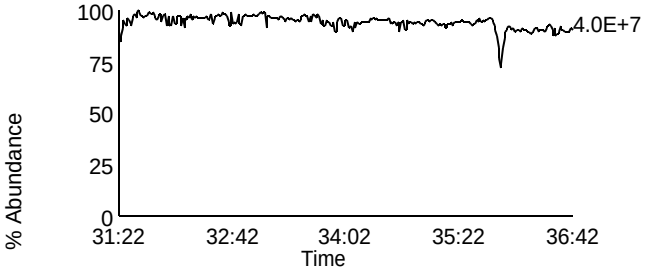
Data File: F131107A_13 G3 C10 - 403.8529
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G3 C11 - 445.7555
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G3 C3 - 380.976
SAMP 10247063014 - SMT PASI-WI

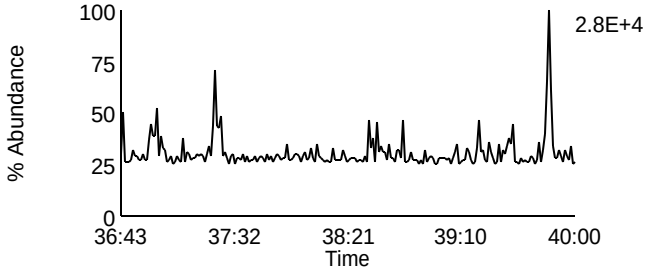


Homologue Group: Heptas

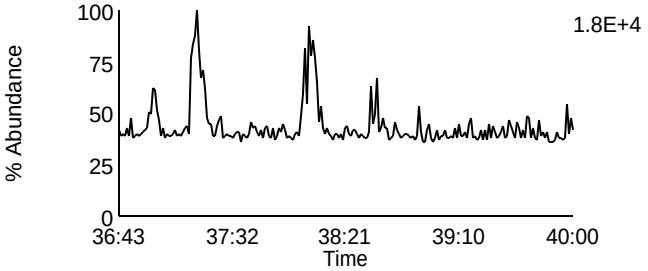
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

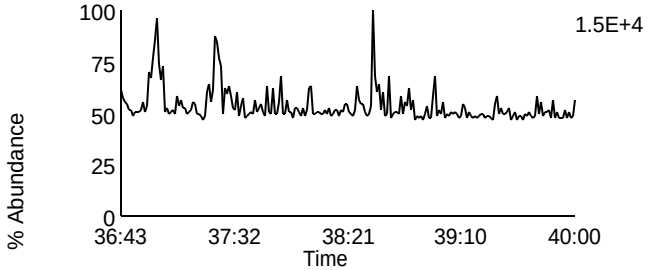
Data File: F131107A_13 G4 C3 - 407.7818
SAMP 10247063014 - SMT PASI-WI



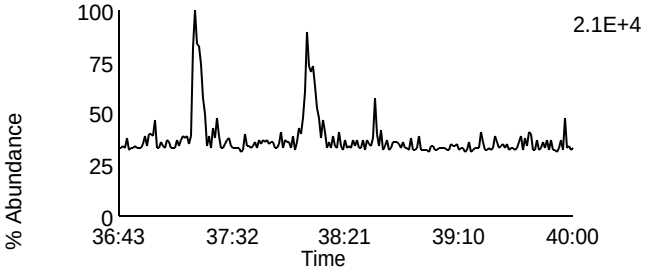
Data File: F131107A_13 G4 C8 - 423.7767
SAMP 10247063014 - SMT PASI-WI



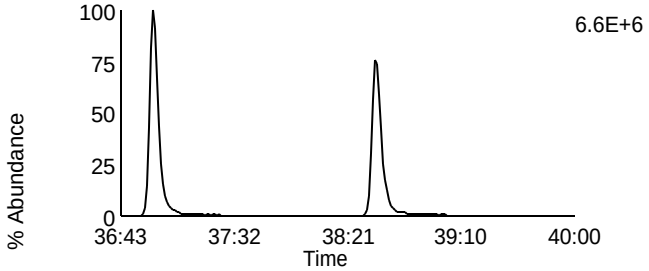
Data File: F131107A_13 G4 C4 - 409.7788
SAMP 10247063014 - SMT PASI-WI



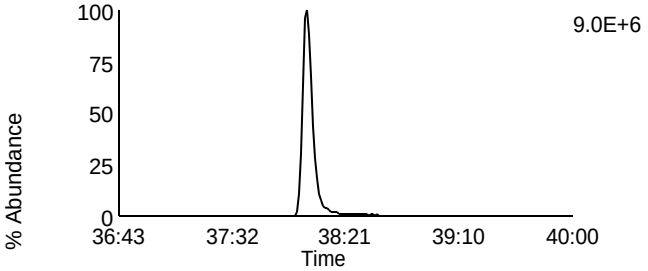
Data File: F131107A_13 G4 C9 - 425.7737
SAMP 10247063014 - SMT PASI-WI



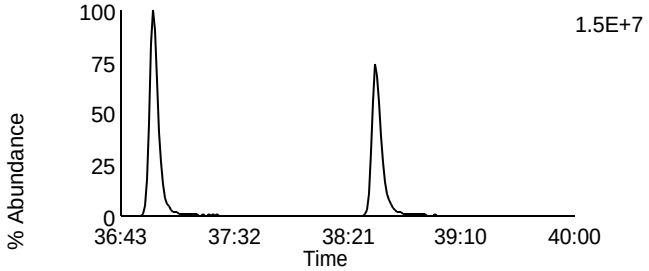
Data File: F131107A_13 G4 C6 - 417.825
SAMP 10247063014 - SMT PASI-WI



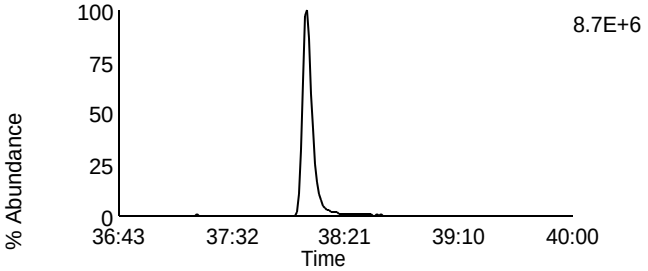
Data File: F131107A_13 G4 C11 - 435.8169
SAMP 10247063014 - SMT PASI-WI



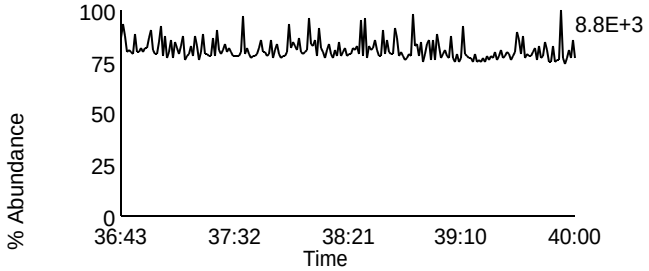
Data File: F131107A_13 G4 C7 - 419.822
SAMP 10247063014 - SMT PASI-WI



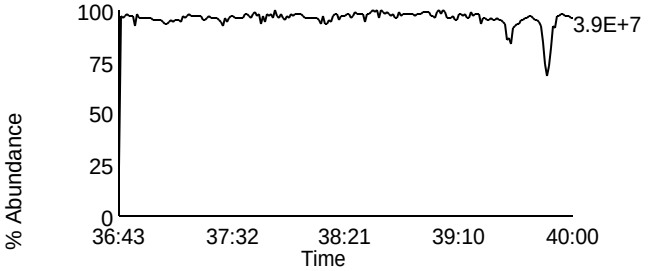
Data File: F131107A_13 G4 C12 - 437.814
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G4 C13 - 479.7165
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G4 C1 - 380.976
SAMP 10247063014 - SMT PASI-WI

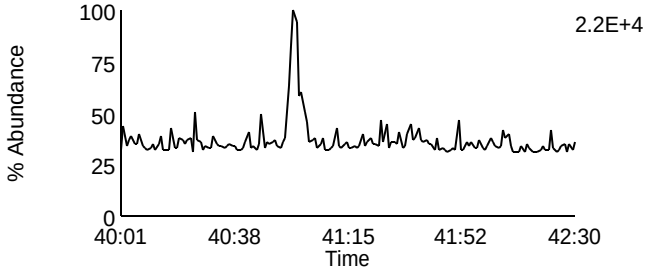


Homologue Group: Octas

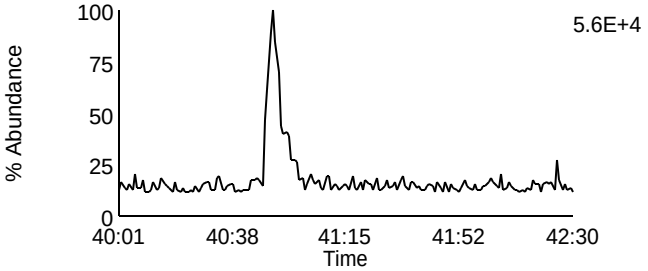
Data File Name: F131107A_13
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063014 - SMT PASI-WI

Lab Sample ID: 10247063014
Client Sample ID: MAK022O
Instrument: 10MSHR05 (F)

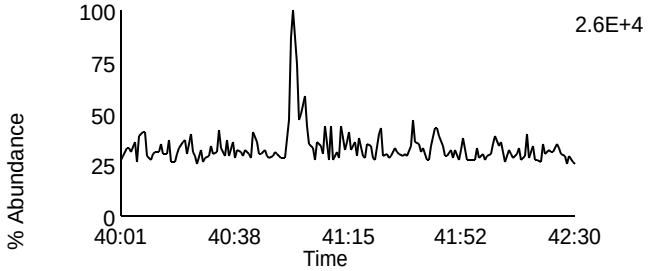
Data File: F131107A_13 G5 C4 - 441.7428
SAMP 10247063014 - SMT PASI-WI



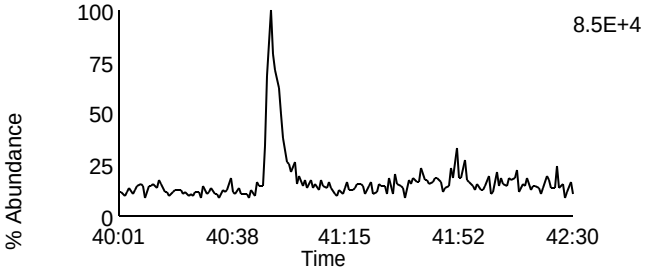
Data File: F131107A_13 G5 C8 - 457.7377
SAMP 10247063014 - SMT PASI-WI



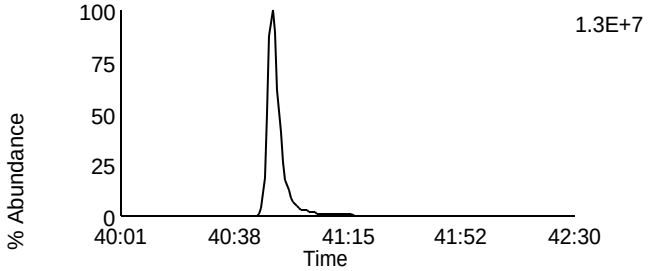
Data File: F131107A_13 G5 C5 - 443.7398
SAMP 10247063014 - SMT PASI-WI



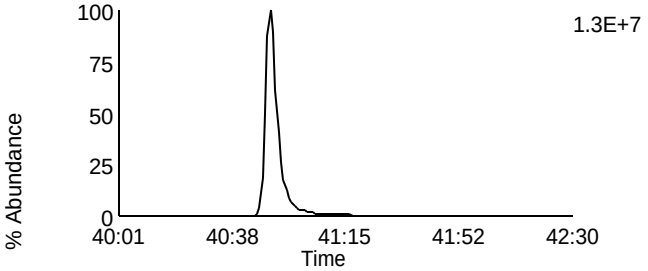
Data File: F131107A_13 G5 C9 - 459.7347
SAMP 10247063014 - SMT PASI-WI



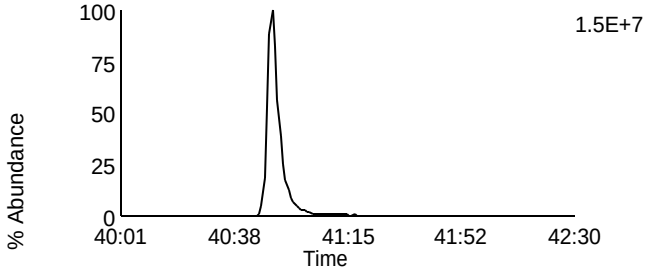
Data File: F131107A_13 G5 C11 - 469.7779
SAMP 10247063014 - SMT PASI-WI



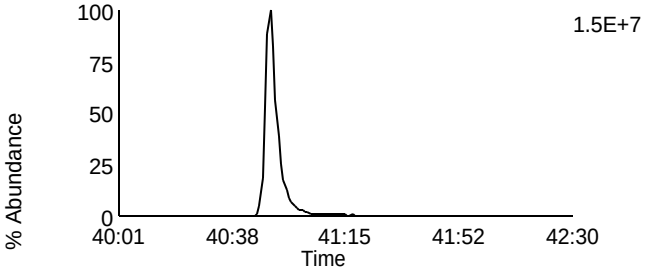
Data File: F131107A_13 G5 C11 - 469.7779
SAMP 10247063014 - SMT PASI-WI



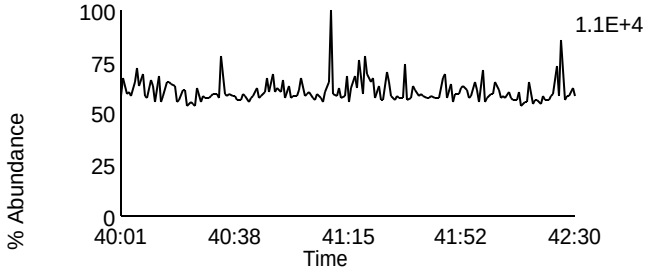
Data File: F131107A_13 G5 C12 - 471.7749
SAMP 10247063014 - SMT PASI-WI



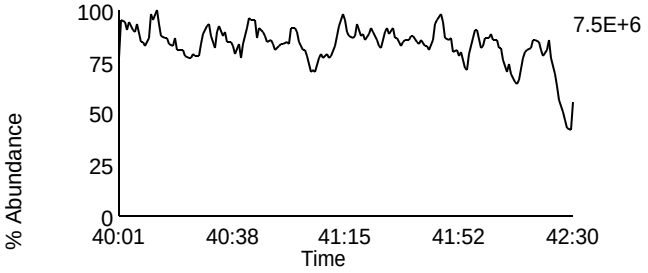
Data File: F131107A_13 G5 C12 - 471.7749
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G5 C13 - 513.6775
SAMP 10247063014 - SMT PASI-WI



Data File: F131107A_13 G5 C2 - 430.9728
SAMP 10247063014 - SMT PASI-WI

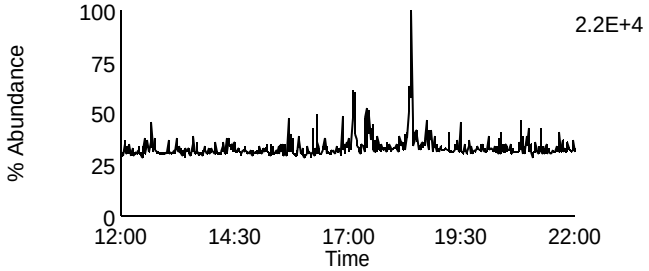


Homologue Group: Tetras

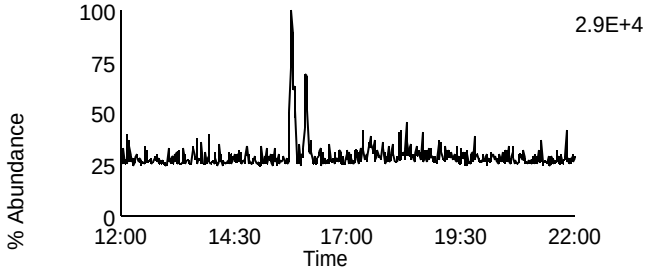
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

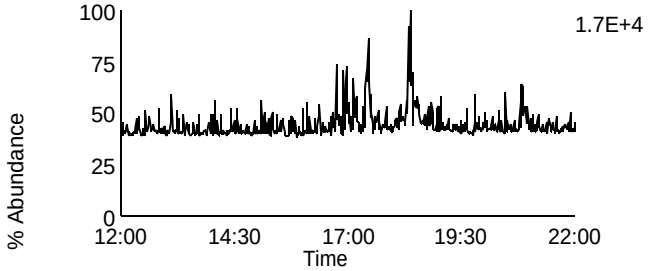
Data File: F131107A_14 G1 C1 - 303.9016
SAMP 10247063015 - SMT PASI-WI



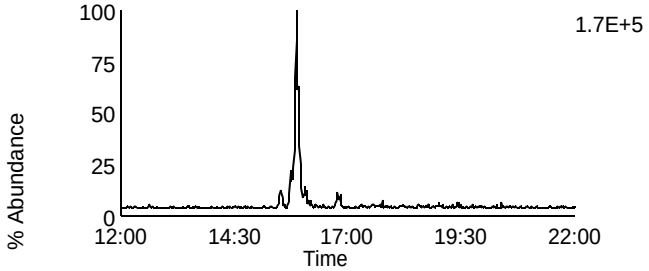
Data File: F131107A_14 G1 C7 - 319.8965
SAMP 10247063015 - SMT PASI-WI



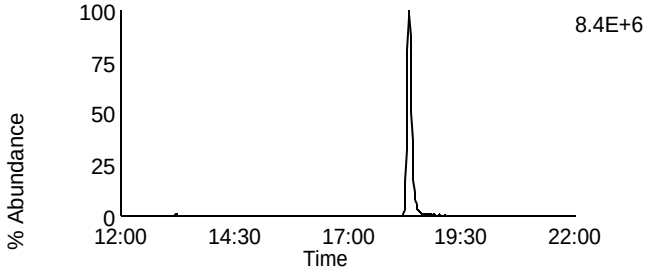
Data File: F131107A_14 G1 C2 - 305.8987
SAMP 10247063015 - SMT PASI-WI



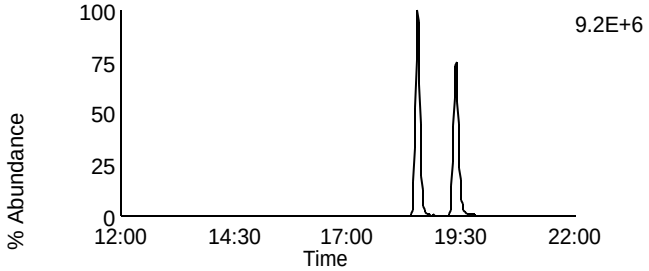
Data File: F131107A_14 G1 C8 - 321.8936
SAMP 10247063015 - SMT PASI-WI



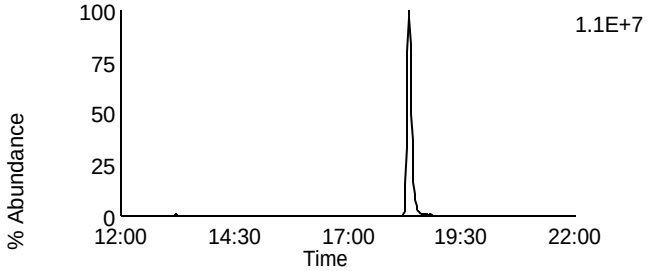
Data File: F131107A_14 G1 C3 - 315.9418
SAMP 10247063015 - SMT PASI-WI



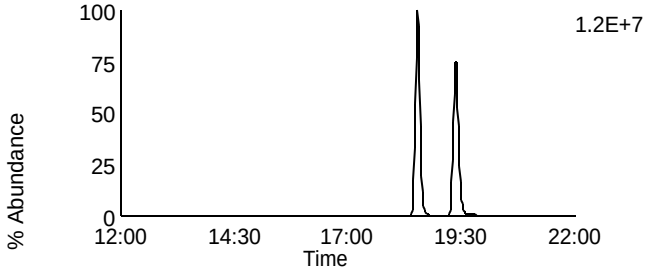
Data File: F131107A_14 G1 C10 - 331.9367
SAMP 10247063015 - SMT PASI-WI



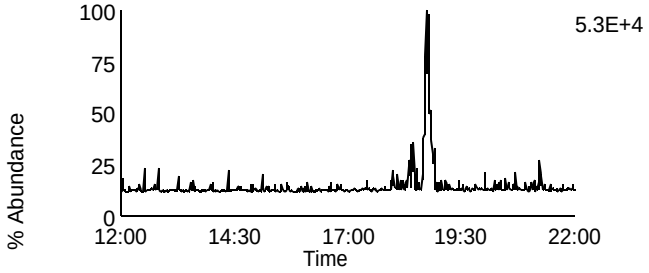
Data File: F131107A_14 G1 C4 - 317.9389
SAMP 10247063015 - SMT PASI-WI



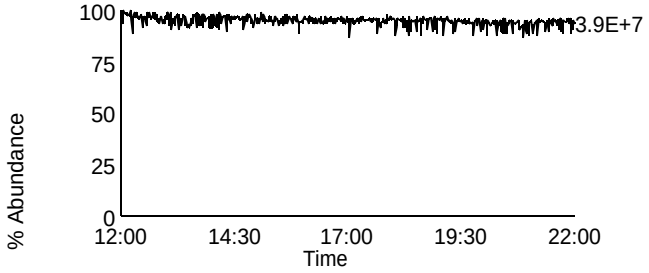
Data File: F131107A_14 G1 C11 - 333.9338
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G1 C14 - 375.8364
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G1 C5 - 318.9792
SAMP 10247063015 - SMT PASI-WI

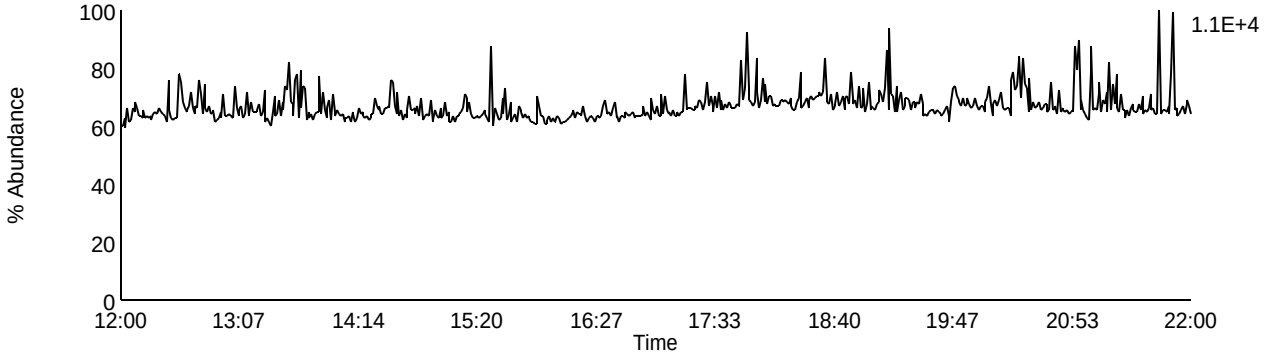


Homologue Group: Penta & Cleanup

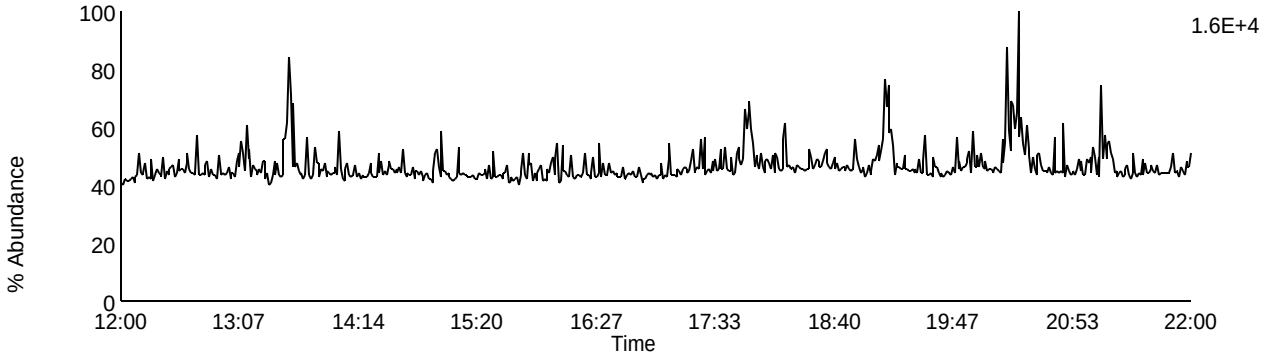
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

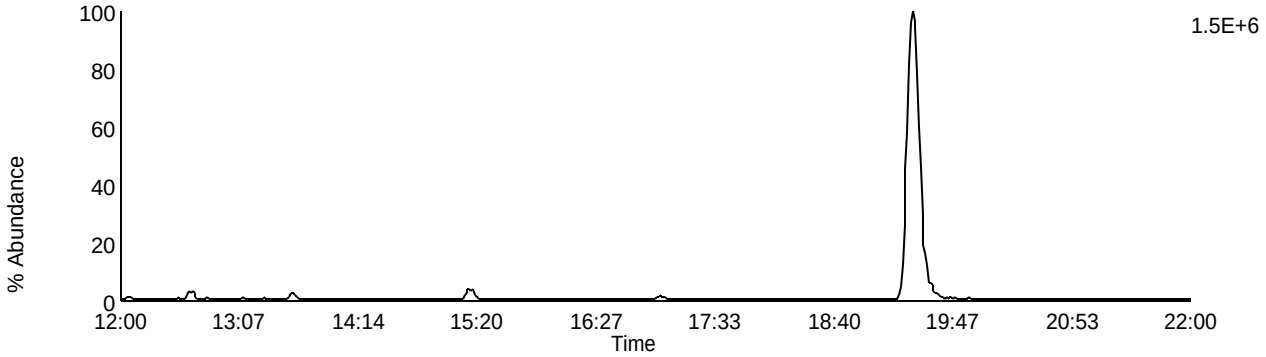
Data File: F131107A_14 G1 C12 - 339.8597
SAMP 10247063015 - SMT PASI-WI



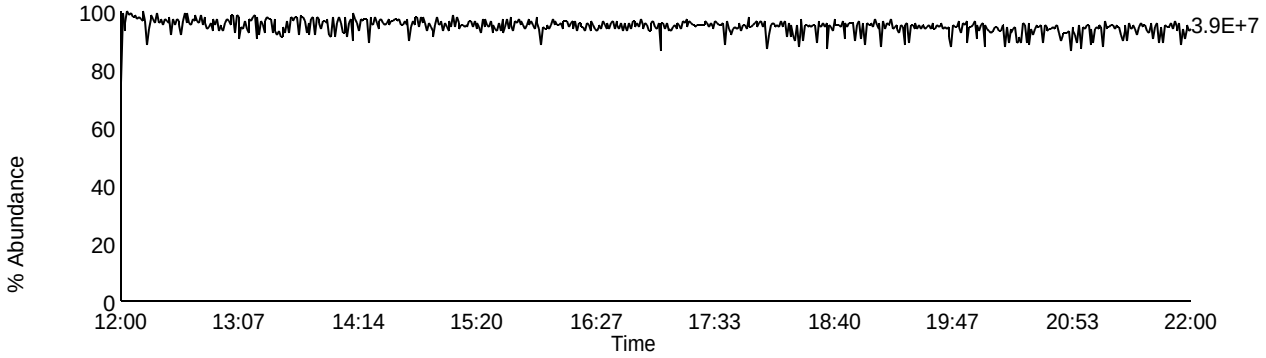
Data File: F131107A_14 G1 C13 - 341.8567
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G1 C9 - 327.8847
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G1 C5 - 318.9792
SAMP 10247063015 - SMT PASI-WI

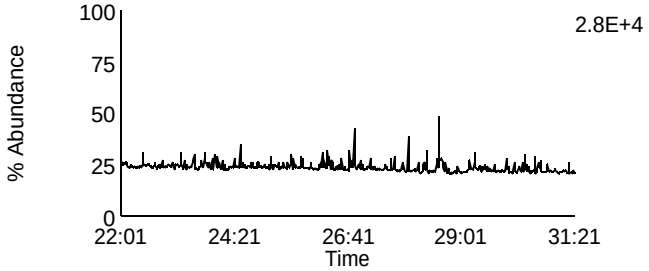


Homologue Group: Pentas

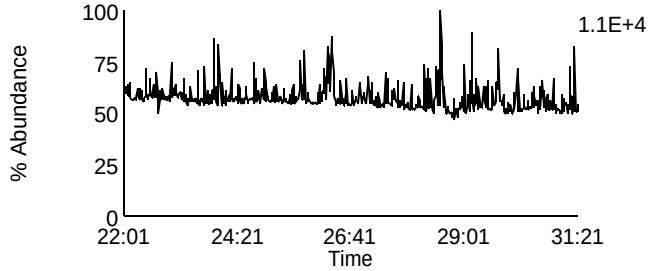
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

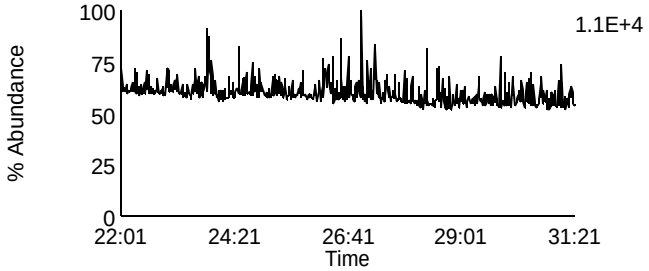
Data File: F131107A_14 G2 C1 - 339.8597
SAMP 10247063015 - SMT PASI-WI



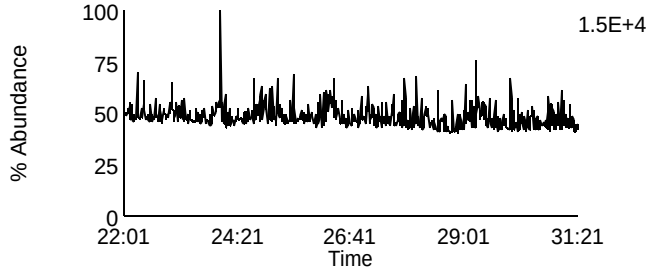
Data File: F131107A_14 G2 C4 - 353.8576
SAMP 10247063015 - SMT PASI-WI



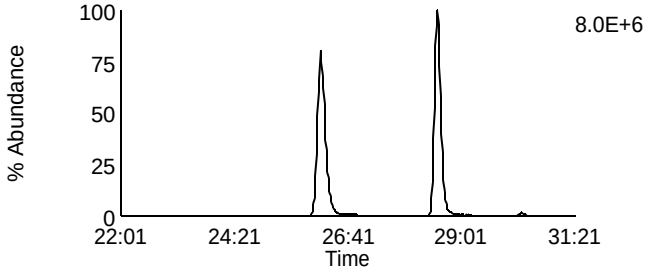
Data File: F131107A_14 G2 C2 - 341.8567
SAMP 10247063015 - SMT PASI-WI



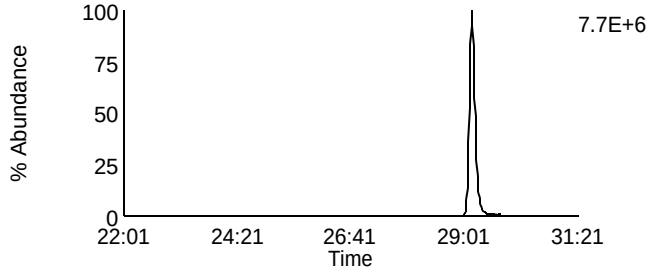
Data File: F131107A_14 G2 C8 - 355.8546
SAMP 10247063015 - SMT PASI-WI



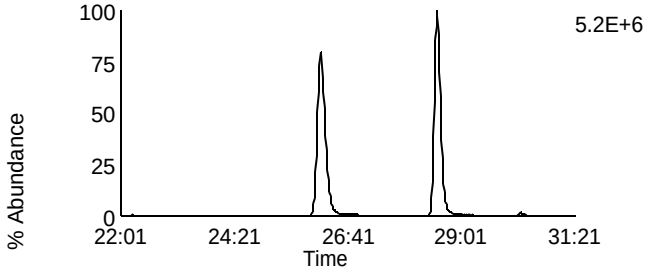
Data File: F131107A_14 G2 C3 - 351.8999
SAMP 10247063015 - SMT PASI-WI



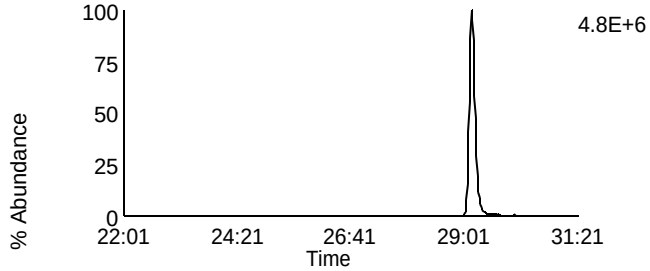
Data File: F131107A_14 G2 C10 - 367.8948
SAMP 10247063015 - SMT PASI-WI



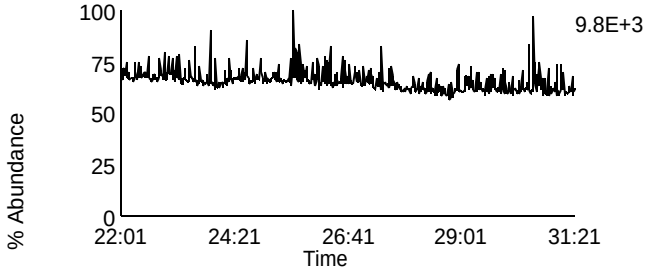
Data File: F131107A_14 G2 C5 - 353.8969
SAMP 10247063015 - SMT PASI-WI



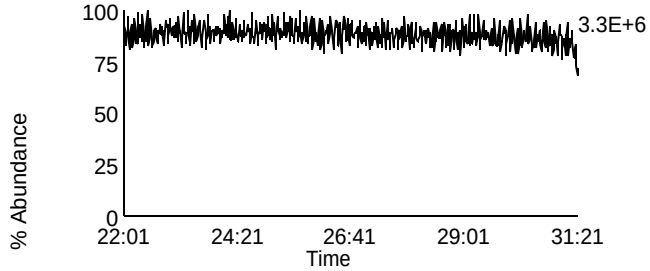
Data File: F131107A_14 G2 C11 - 369.8918
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G2 C12 - 409.7974
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G2 C6 - 354.9792
SAMP 10247063015 - SMT PASI-WI

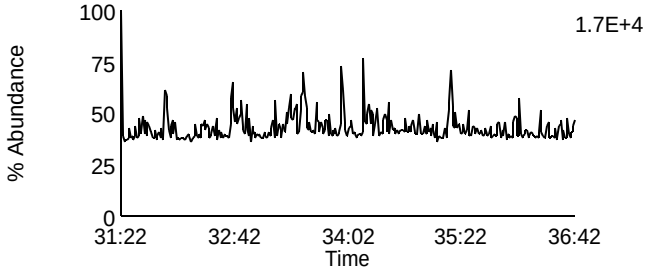


Homologue Group: Hexas

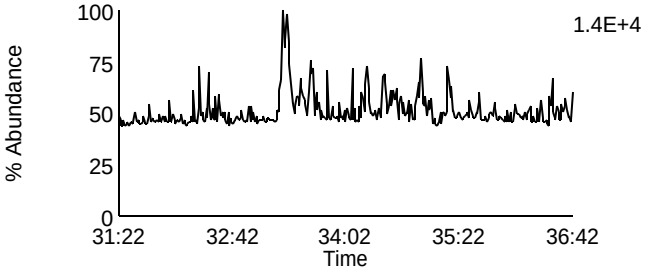
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

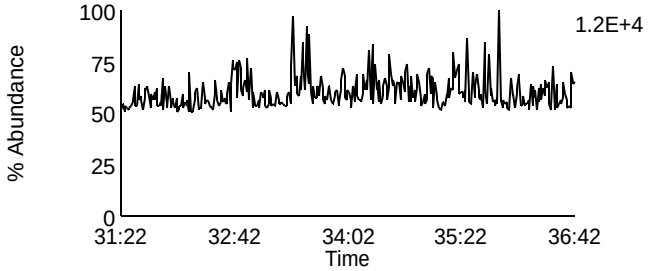
Data File: F131107A_14 G3 C1 - 373.8207
SAMP 10247063015 - SMT PASI-WI



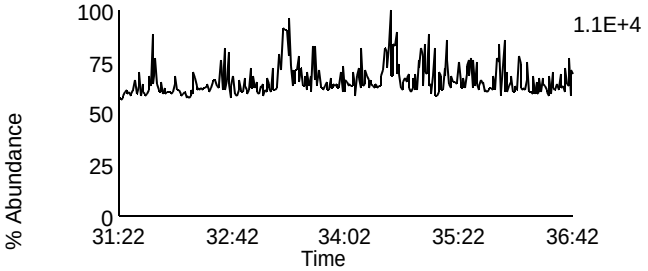
Data File: F131107A_14 G3 C7 - 389.8156
SAMP 10247063015 - SMT PASI-WI



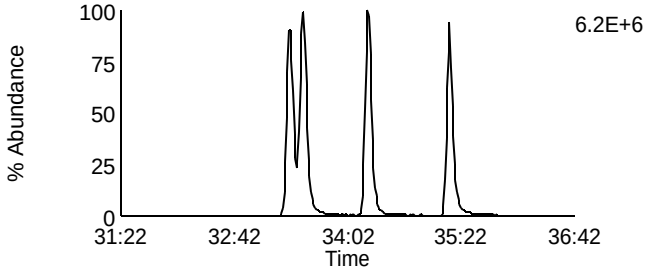
Data File: F131107A_14 G3 C2 - 375.8178
SAMP 10247063015 - SMT PASI-WI



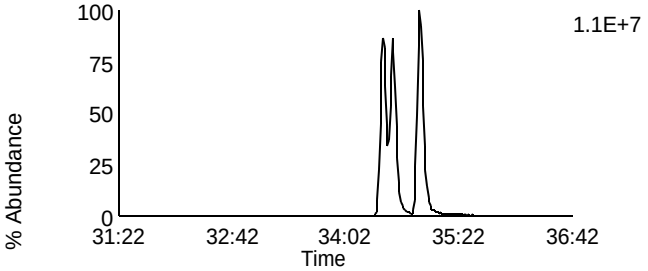
Data File: F131107A_14 G3 C8 - 391.8127
SAMP 10247063015 - SMT PASI-WI



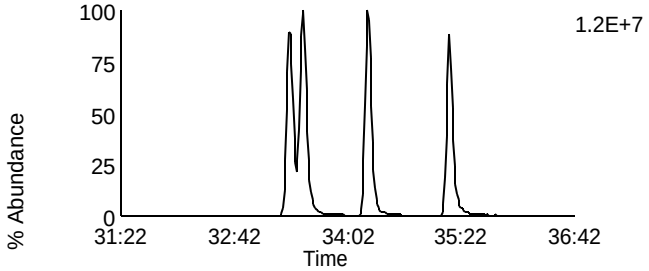
Data File: F131107A_14 G3 C5 - 383.8639
SAMP 10247063015 - SMT PASI-WI



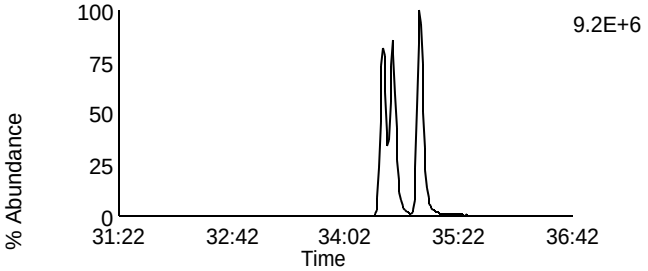
Data File: F131107A_14 G3 C9 - 401.8559
SAMP 10247063015 - SMT PASI-WI



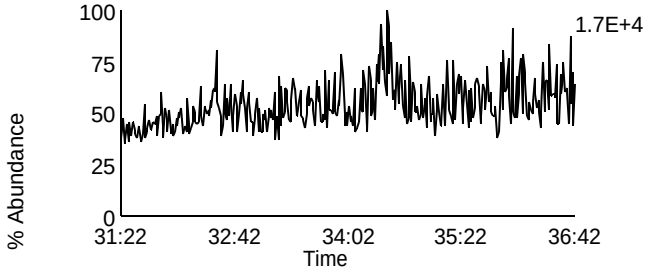
Data File: F131107A_14 G3 C6 - 385.861
SAMP 10247063015 - SMT PASI-WI



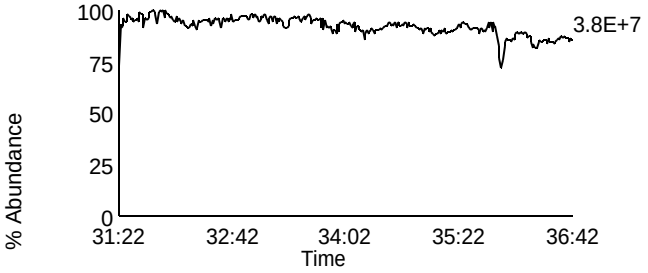
Data File: F131107A_14 G3 C10 - 403.8529
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G3 C11 - 445.7555
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G3 C3 - 380.976
SAMP 10247063015 - SMT PASI-WI

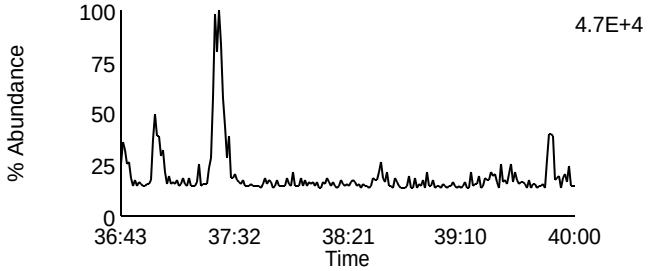


Homologue Group: Heptas

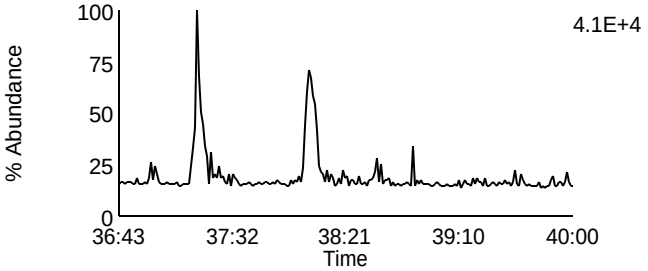
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

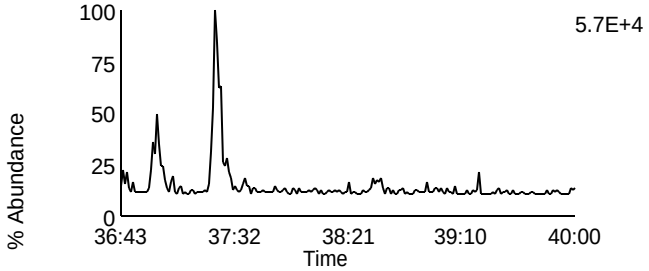
Data File: F131107A_14 G4 C3 - 407.7818
SAMP 10247063015 - SMT PASI-WI



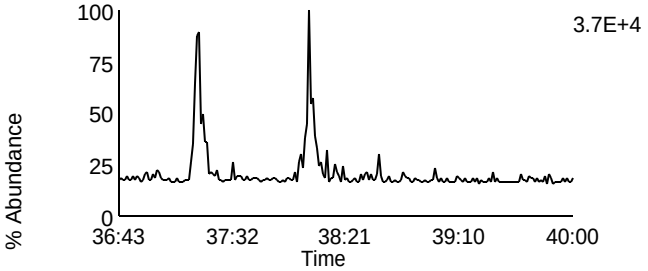
Data File: F131107A_14 G4 C8 - 423.7767
SAMP 10247063015 - SMT PASI-WI



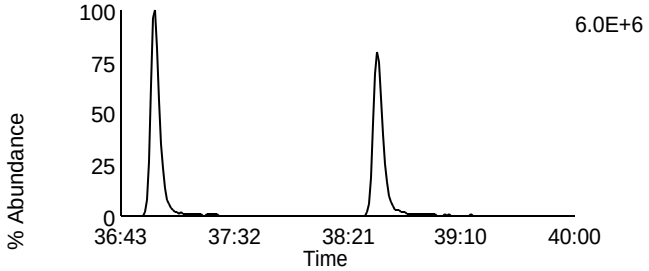
Data File: F131107A_14 G4 C4 - 409.7788
SAMP 10247063015 - SMT PASI-WI



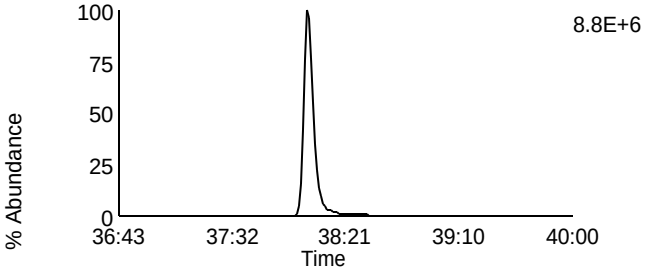
Data File: F131107A_14 G4 C9 - 425.7737
SAMP 10247063015 - SMT PASI-WI



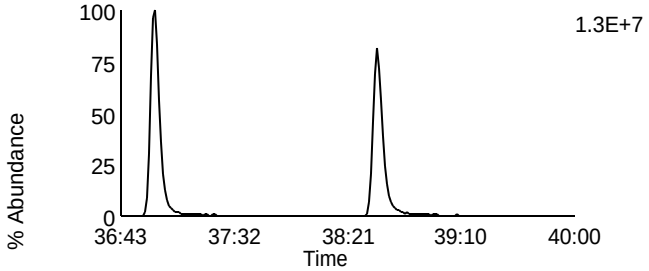
Data File: F131107A_14 G4 C6 - 417.825
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G4 C11 - 435.8169
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G4 C7 - 419.822
SAMP 10247063015 - SMT PASI-WI



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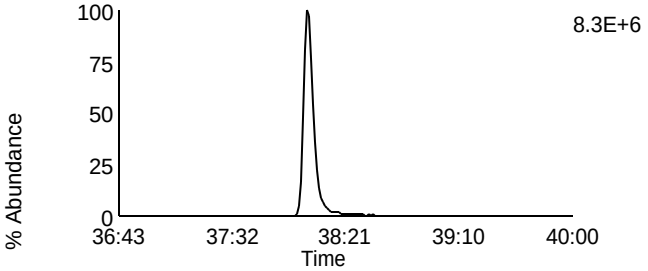
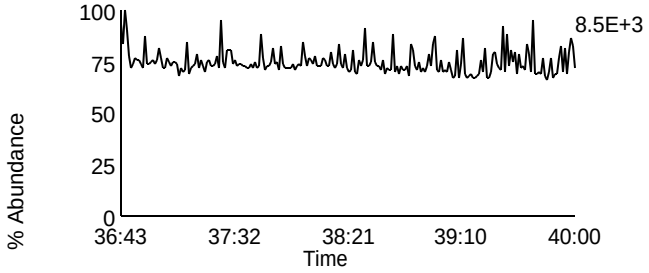
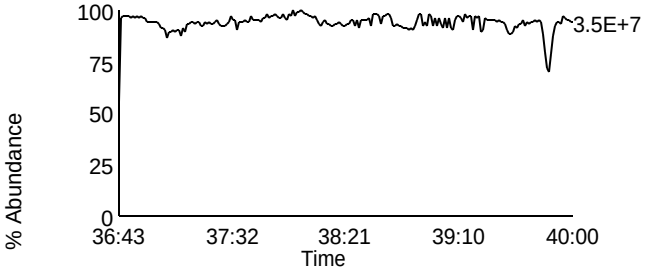
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G4 C13 - 479.7165
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G4 C1 - 380.976
SAMP 10247063015 - SMT PASI-WI

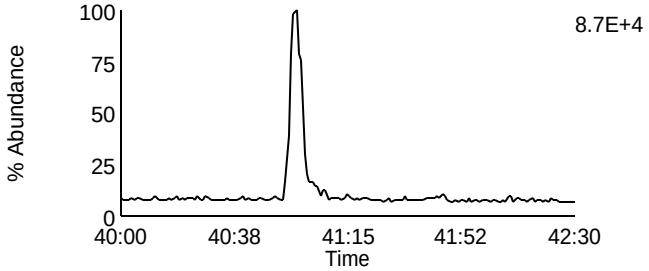


Homologue Group: Octas

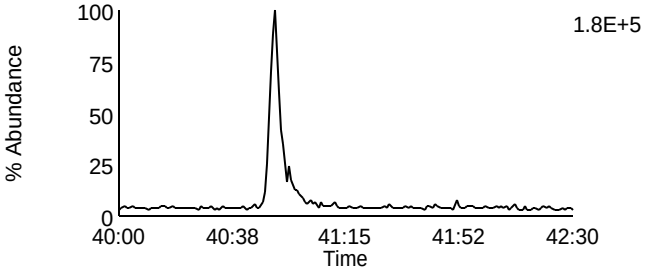
Data File Name: F131107A_14
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063015 - SMT PASI-WI

Lab Sample ID: 10247063015
Client Sample ID: MAK023O
Instrument: 10MSHR05 (F)

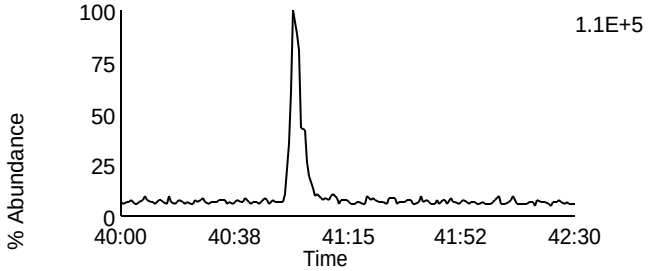
Data File: F131107A_14 G5 C4 - 441.7428
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G5 C8 - 457.7377
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G5 C5 - 443.7398
SAMP 10247063015 - SMT PASI-WI



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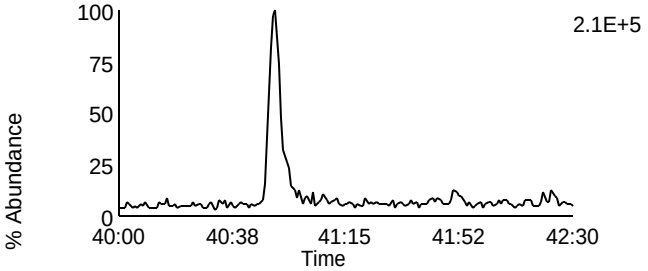
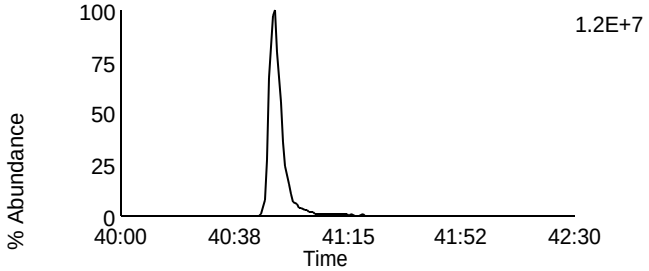
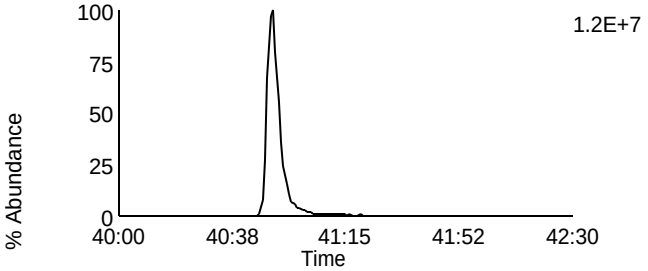
SAMP 10247063015 - SMT PASI-WI



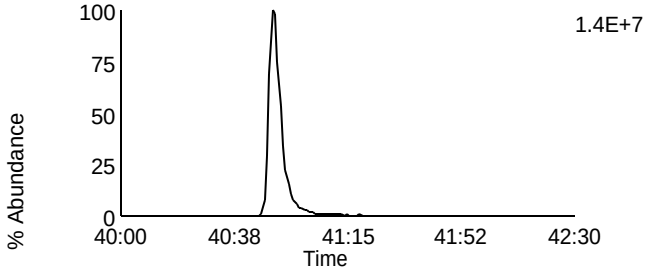
Data File: F131107A_14 G5 C11 - 469.7779
SAMP 10247063015 - SMT PASI-WI



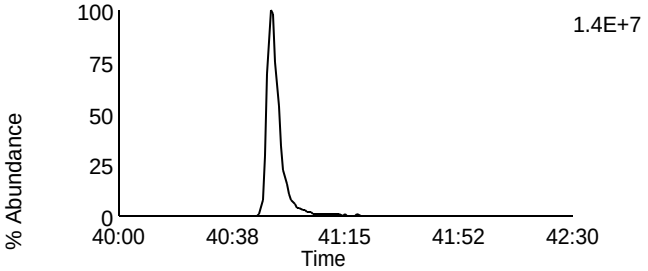
Data File: F131107A_14 G5 C11 - 469.7779
SAMP 10247063015 - SMT PASI-WI



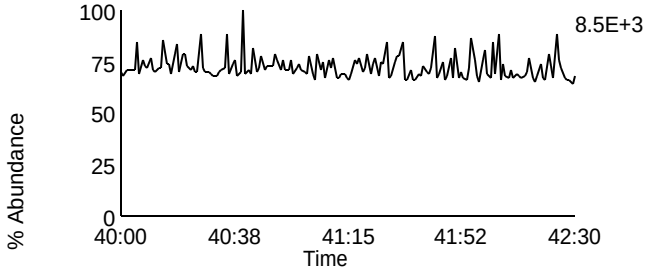
Data File: F131107A_14 G5 C12 - 471.7749
SAMP 10247063015 - SMT PASI-WI



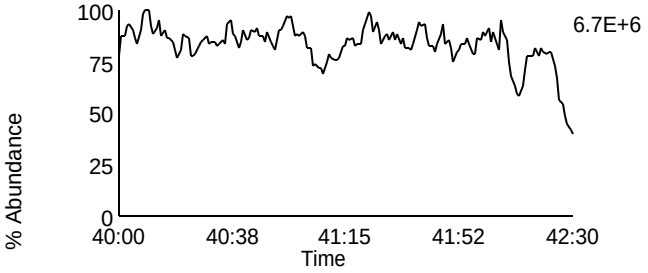
Data File: F131107A_14 G5 C12 - 471.7749
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G5 C13 - 513.6775
SAMP 10247063015 - SMT PASI-WI



Data File: F131107A_14 G5 C2 - 430.9728
SAMP 10247063015 - SMT PASI-WI

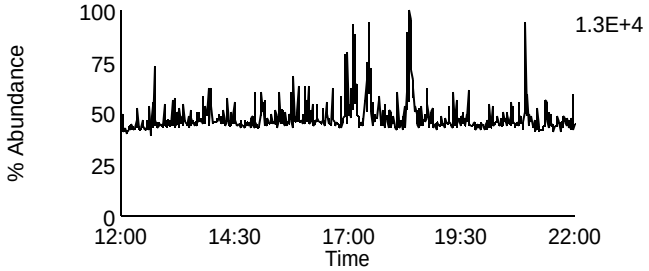


Homologue Group: Tetras

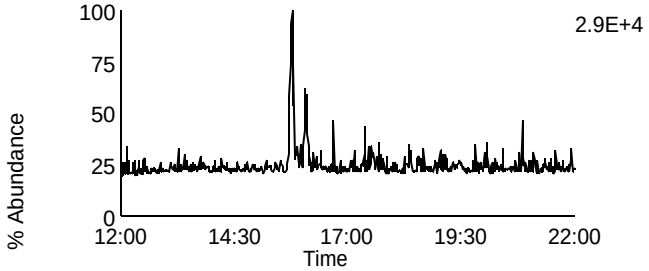
Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

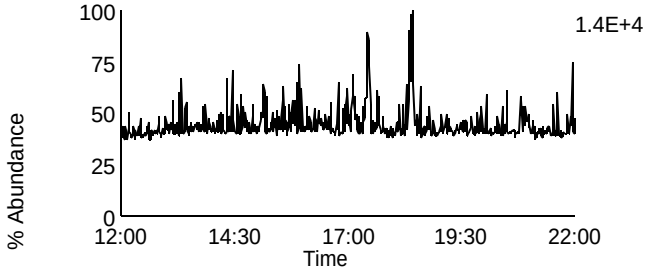
Data File: F131107A_15 G1 C1 - 303.9016
SAMP 10247063016 - SMT PASI-WI



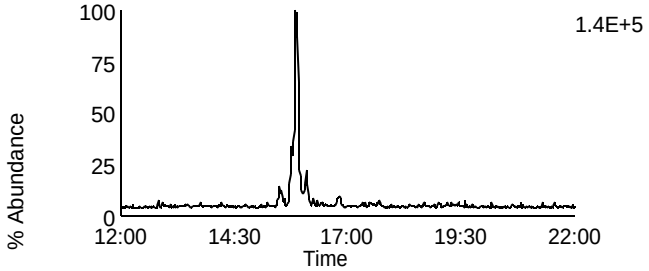
Data File: F131107A_15 G1 C7 - 319.8965
SAMP 10247063016 - SMT PASI-WI



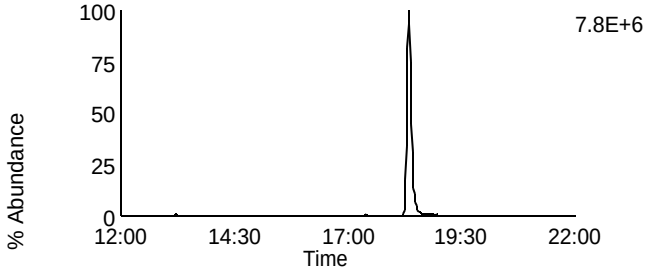
Data File: F131107A_15 G1 C2 - 305.8987
SAMP 10247063016 - SMT PASI-WI



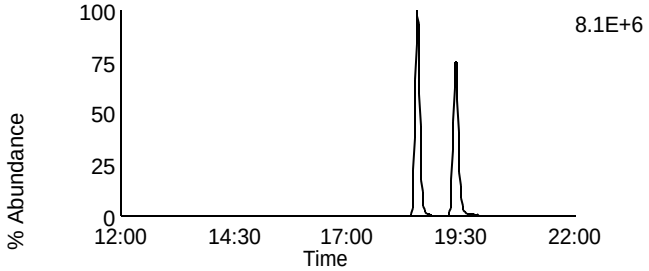
Data File: F131107A_15 G1 C8 - 321.8936
SAMP 10247063016 - SMT PASI-WI



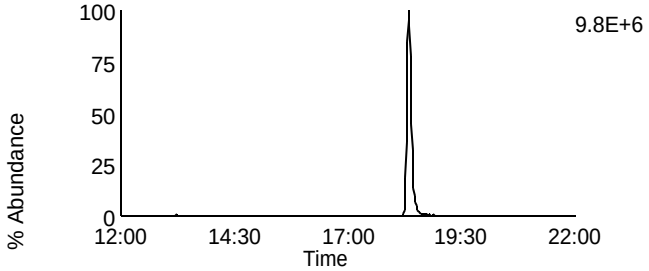
Data File: F131107A_15 G1 C3 - 315.9418
SAMP 10247063016 - SMT PASI-WI



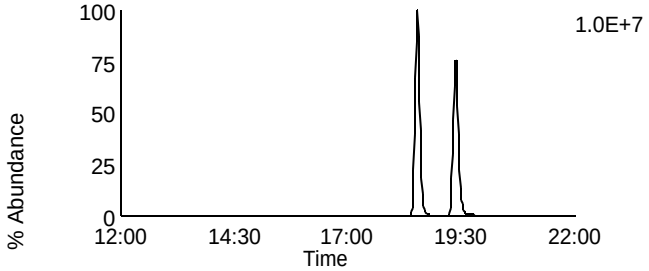
Data File: F131107A_15 G1 C10 - 331.9367
SAMP 10247063016 - SMT PASI-WI



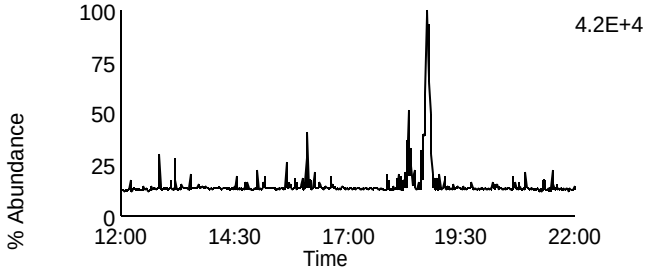
Data File: F131107A_15 G1 C4 - 317.9389
SAMP 10247063016 - SMT PASI-WI



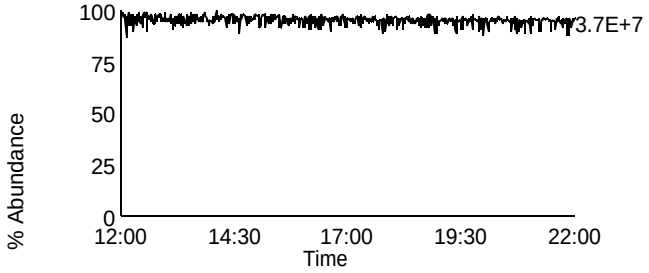
Data File: F131107A_15 G1 C11 - 333.9338
SAMP 10247063016 - SMT PASI-WI



Data File: F131107A_15 G1 C14 - 375.8364
SAMP 10247063016 - SMT PASI-WI



Data File: F131107A_15 G1 C5 - 318.9792
SAMP 10247063016 - SMT PASI-WI

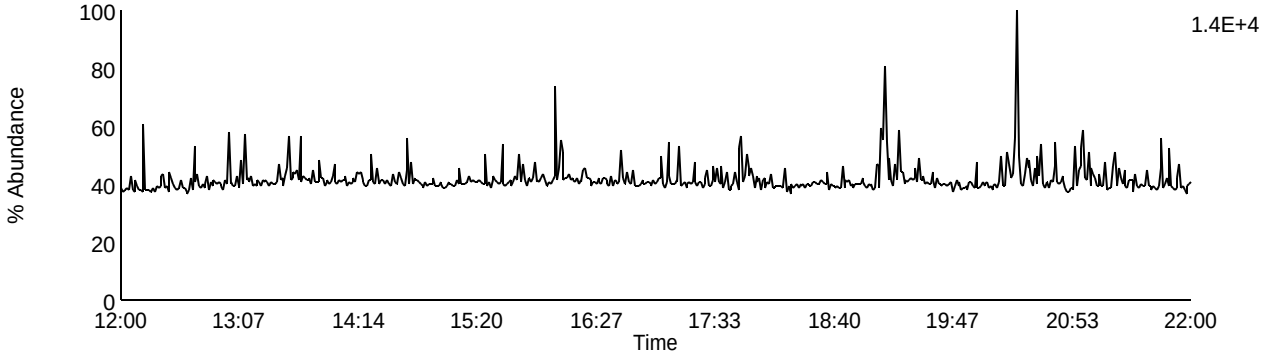


Homologue Group: Penta & Cleanup

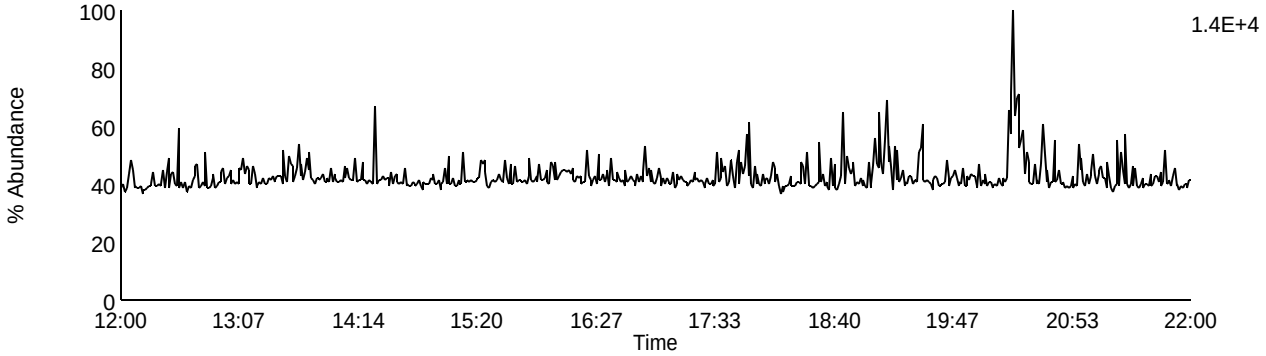
Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

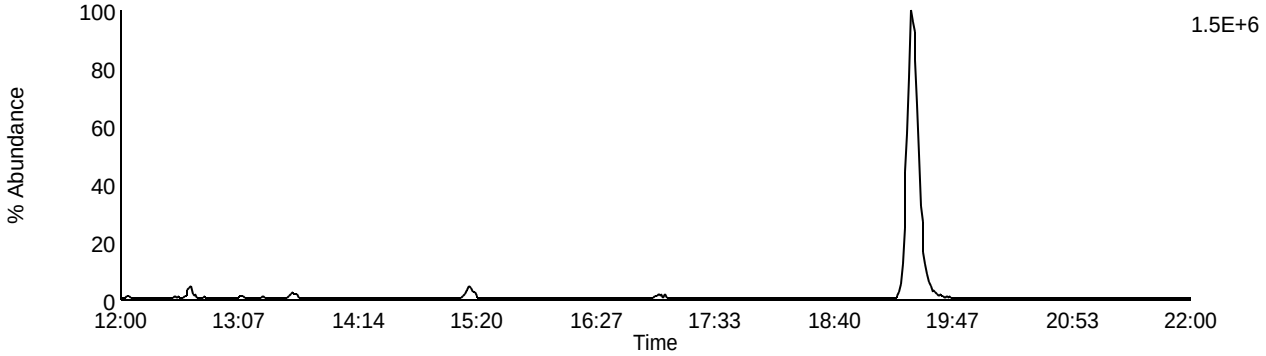
Data File: F131107A_15 G1 C12 - 339.8597
SAMP 10247063016 - SMT PASI-WI



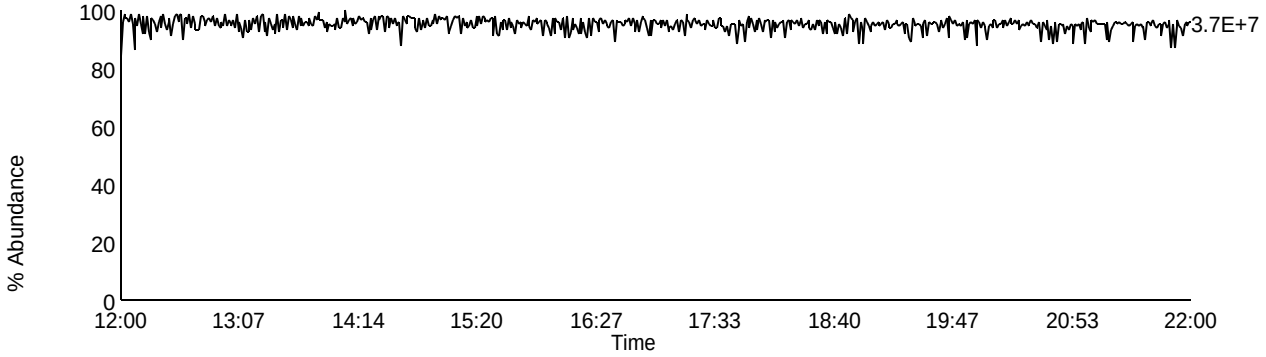
Data File: F131107A_15 G1 C13 - 341.8567
SAMP 10247063016 - SMT PASI-WI



Data File: F131107A_15 G1 C9 - 327.8847
SAMP 10247063016 - SMT PASI-WI



Data File: F131107A_15 G1 C5 - 318.9792
SAMP 10247063016 - SMT PASI-WI

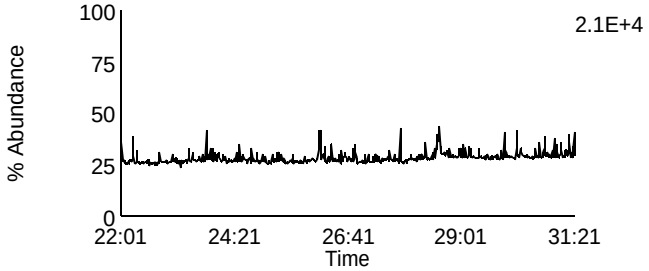


Homologue Group: Pentas

Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

Data File: F131107A_15 G2 C1 - 339.8597
SAMP 10247063016 - SMT PASI-WI



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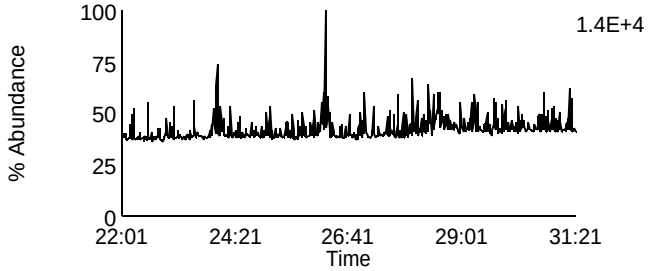
SAMP 10247063016 - SMT PASI-WI



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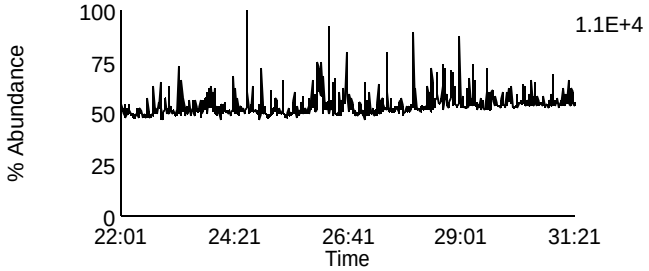

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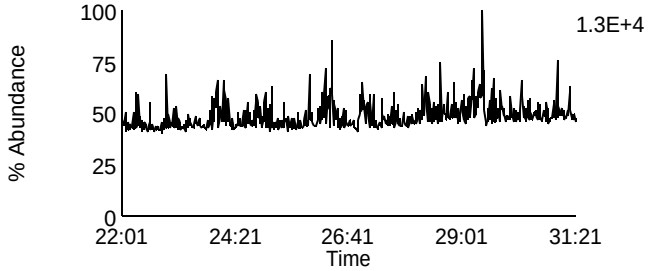
SAMP 10247063016 - SMT PASI-WI



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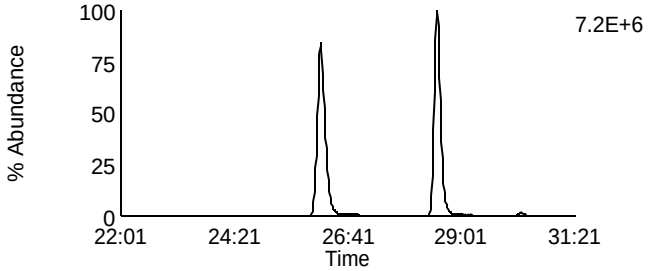
SAMP 10247063016 - SMT PASI-WI



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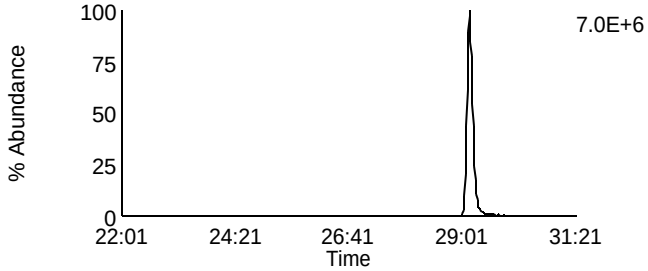
SAMP 10247063016 - SMT PASI-WI



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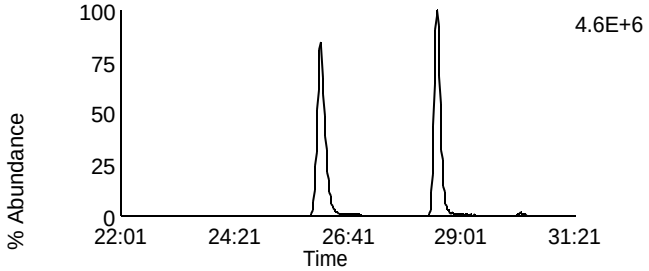
SAMP 10247063016 - SMT PASI-WI



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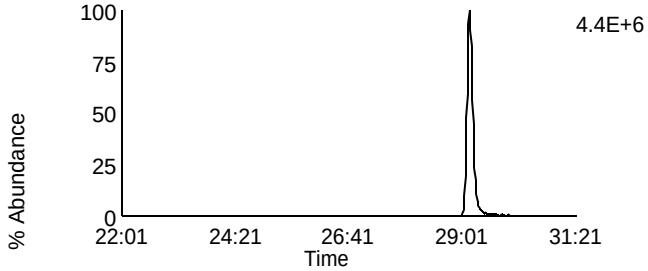
SAMP 10247063016 - SMT PASI-WI



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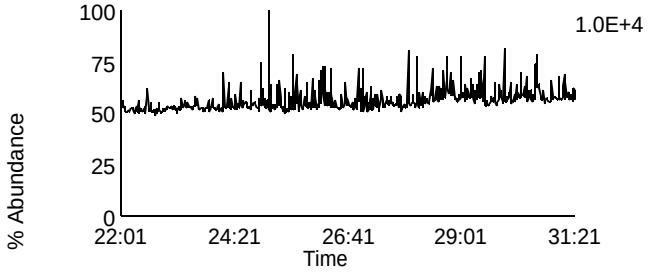
SAMP 10247063016 - SMT PASI-WI



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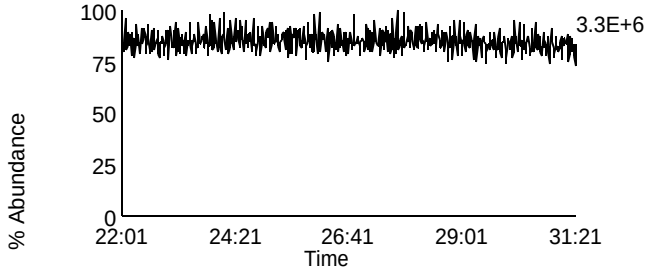
SAMP 10247063016 - SMT PASI-WI

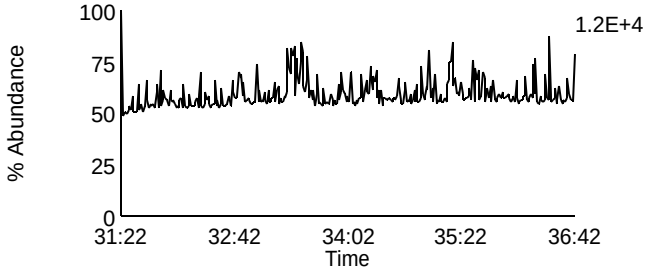


Homologue Group: Hexas

Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

Data File: F131107A_15 G3 C1 - 373.8207
SAMP 10247063016 - SMT PASI-WI



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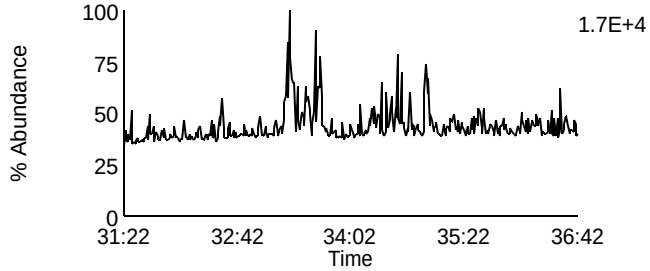
SAMP 10247063016 - SMT PASI-WI



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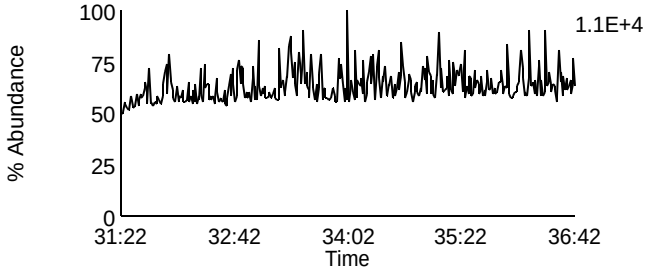

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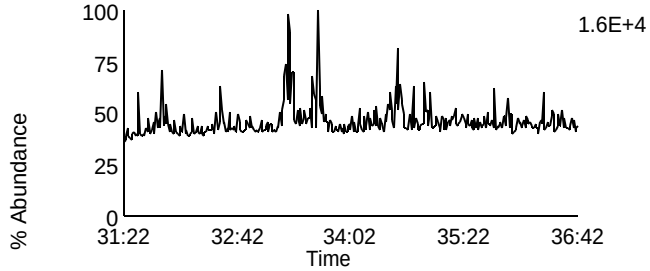
SAMP 10247063016 - SMT PASI-WI



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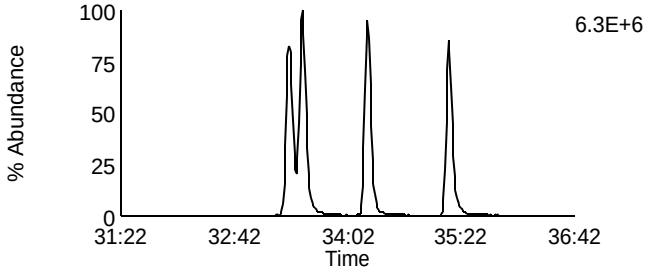

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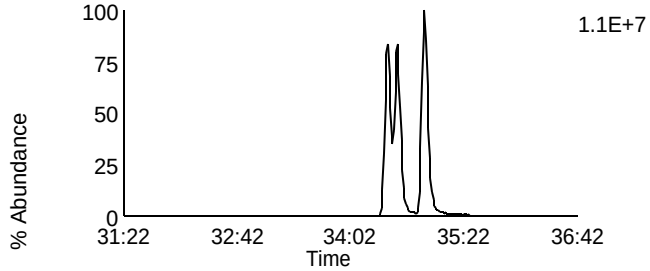
SAMP 10247063016 - SMT PASI-WI



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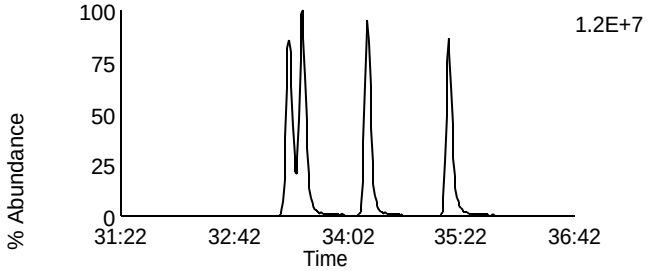
SAMP 10247063016 - SMT PASI-WI



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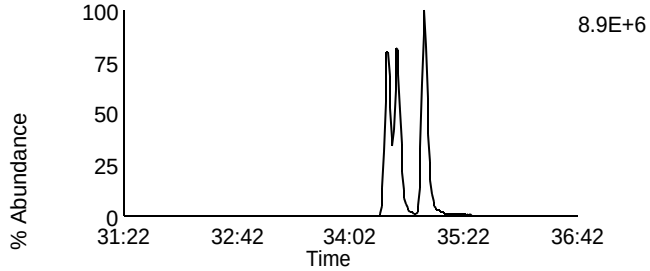

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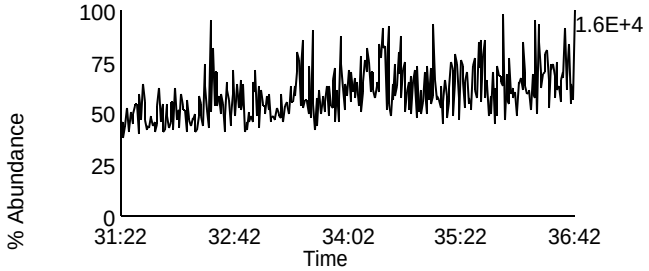
SAMP 10247063016 - SMT PASI-WI



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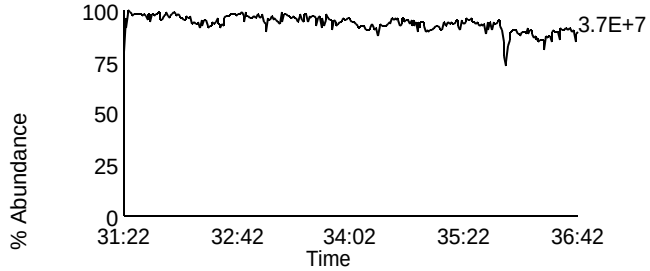
SAMP 10247063016 - SMT PASI-WI

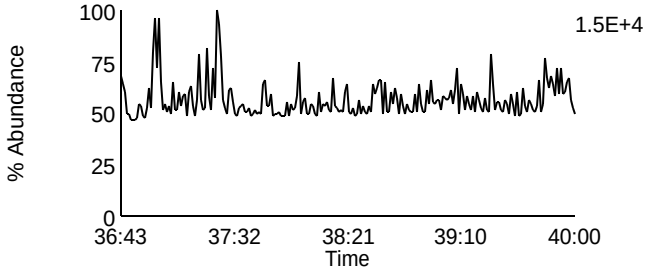


Homologue Group: Heptas

Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

Data File: F131107A_15 G4 C3 - 407.7818
SAMP 10247063016 - SMT PASI-WI



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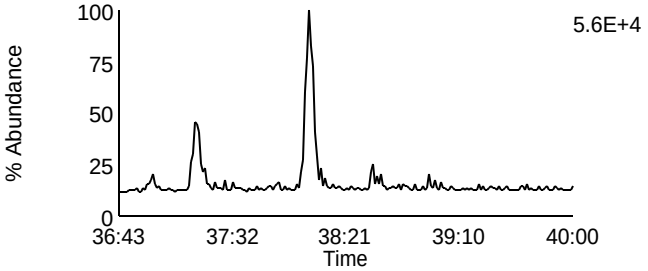
SAMP 10247063016 - SMT PASI-WI



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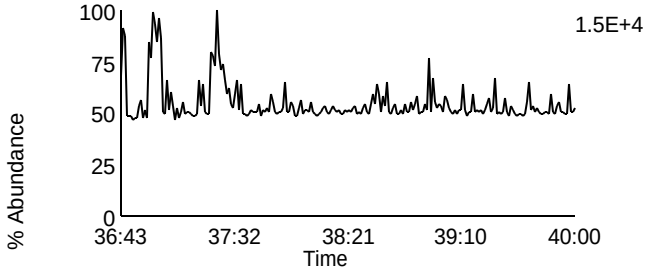

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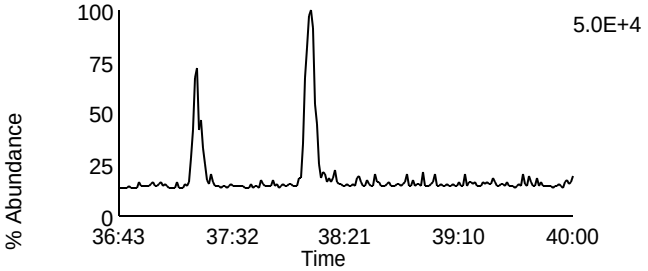
SAMP 10247063016 - SMT PASI-WI



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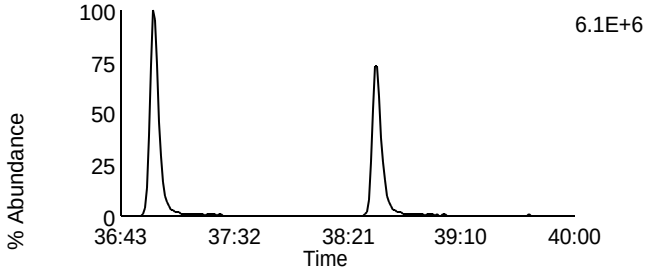
SAMP 10247063016 - SMT PASI-WI



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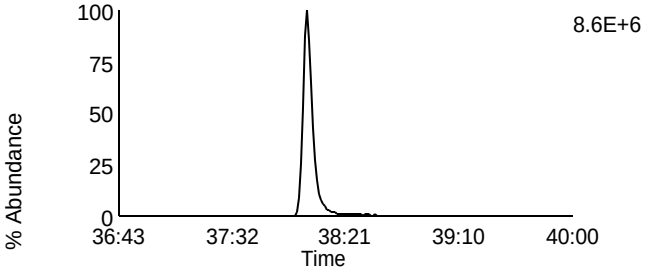
SAMP 10247063016 - SMT PASI-WI



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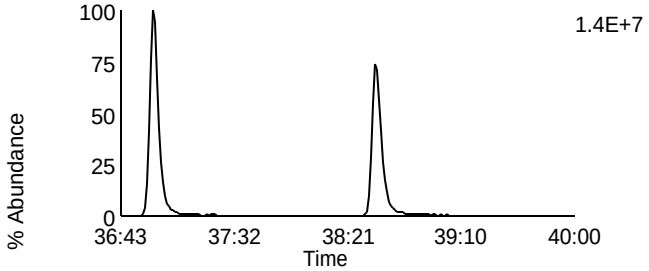
SAMP 10247063016 - SMT PASI-WI



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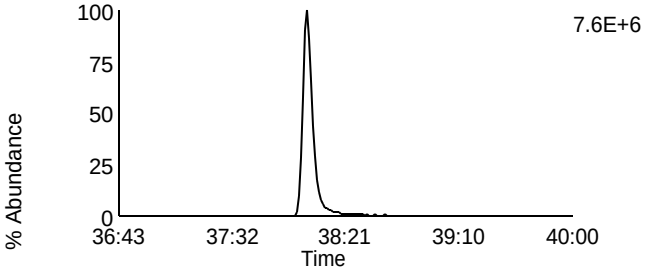

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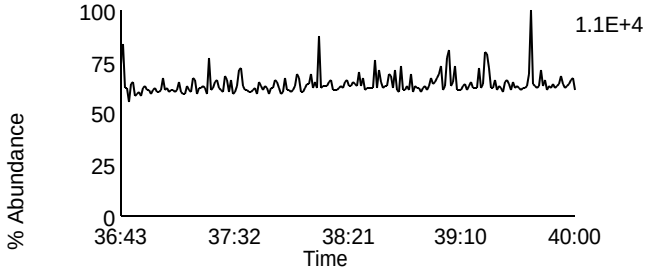
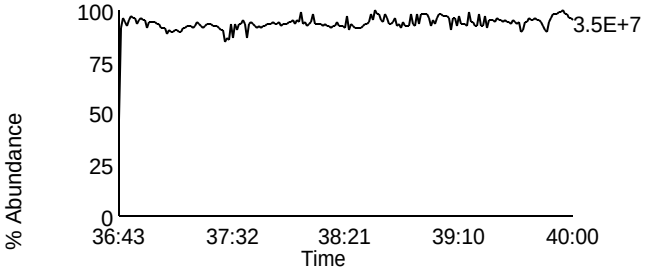
SAMP 10247063016 - SMT PASI-WI



Data File: F131107A_15 G4 C1 - 380.976
SAMP 10247063016 - SMT PASI-WI

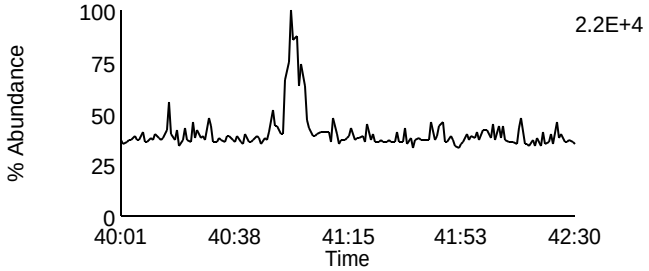


Homologue Group: Octas

Data File Name: F131107A_15
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016 - SMT PASI-WI

Lab Sample ID: 10247063016
Client Sample ID: MAK024O
Instrument: 10MSHR05 (F)

Data File: F131107A_15 G5 C4 - 441.7428
SAMP 10247063016 - SMT PASI-WI



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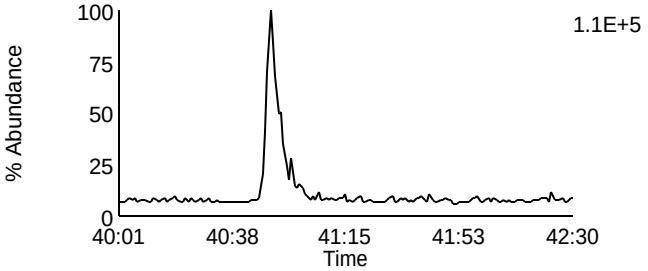

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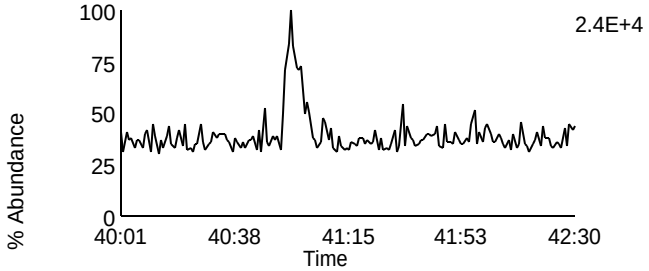

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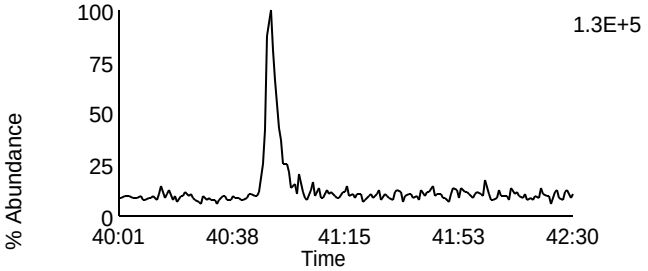

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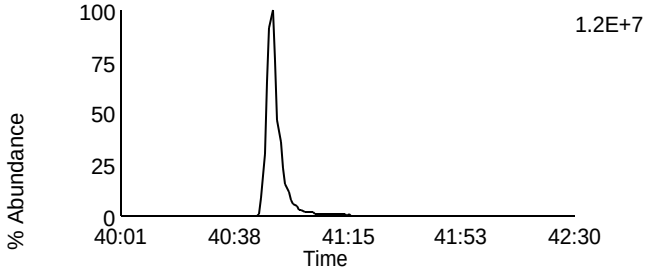

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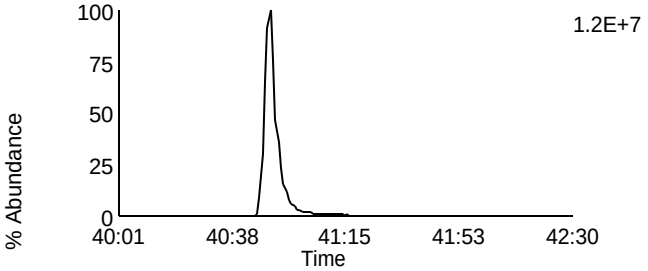
SAMP 10247063016 - SMT PASI-WI



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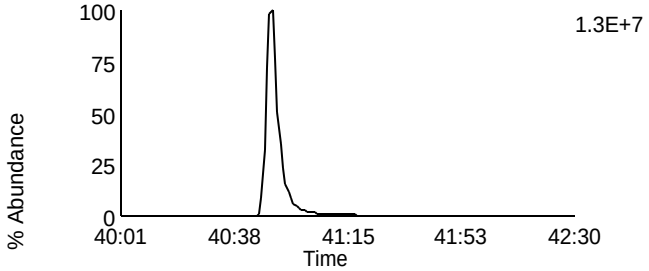

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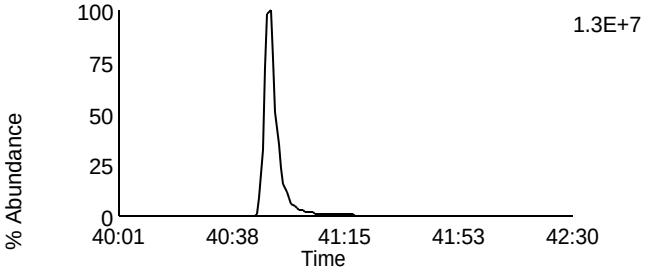
SAMP 10247063016 - SMT PASI-WI



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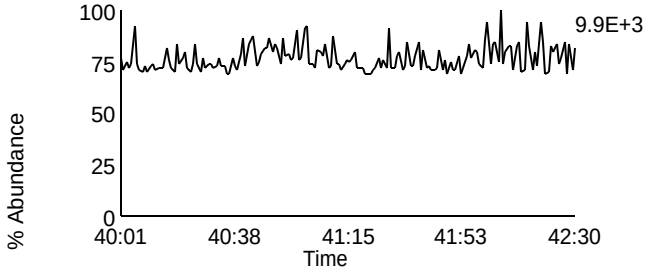
SAMP 10247063016 - SMT PASI-WI



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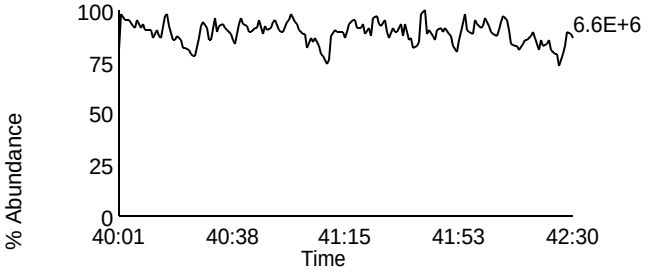
SAMP 10247063016 - SMT PASI-WI



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

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

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK009O	Injected By	SMT
Lab ID	10247063001	Instrument ID	10MSHR05 (F)
Filename	F131107B_06	GC Column ID	USD174324H
Analyzed	11/07/2013 23:21	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:20	6.59e7	8.42e7	9.28e6	1.17e7	1.338e4	1.102e4	0.78	
2,3,7,8-TCDF		18:21	6.13e4	7.93e4	7.73e3	1.13e4	1.211e3	1.146e3	0.77	E
Other TCDF	1	16:56	1.56e4	1.86e4					0.84	
Ethers	1	18:21	6.13e4	7.93e4					0.77	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:32	6.35e7	8.16e7	8.95e6	1.18e7	5.704e3	9.694e3	0.78	
2,3,7,8-TCDD-13C		19:22	5.66e7	7.29e7	7.26e6	9.46e6	8.236e3	7.938e3	0.78	
2,3,7,8-TCDD-37Cl4		19:23	1.34e7		1.70e6		2.558e3	-----		
2,3,7,8-TCDD		19:23	ND	ND	ND	ND	1.387e3	1.243e3		
Other TCDD	1	16:04	6.41e4	9.56e4					0.67	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:07	7.85e7	5.04e7	6.32e6	4.15e6	3.351e3	1.476e4	1.56	
2,3,4,7,8-PeCDF-13C	28:31	7.79e7	4.86e7	8.38e6	5.28e6	8.011e3	8.425e3	1.61	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	1.215e3	9.460e2		
2,3,4,7,8-PeCDF	28:32	2.36e4	2.10e4	3.86e3	2.56e3	1.227e3	1.135e3	1.13	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	29:10	6.55e7	4.17e7	7.54e6	4.95e6	1.209e3	6.038e3	1.57	
1,2,3,7,8-PeCDD	29:11	ND	ND	ND	ND	1.125e3	1.594e3		

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	33:21	3.25e7	6.23e7	6.04e6	1.13e7	6.553e2	1.889e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	4.22e7	8.26e7	7.02e6	1.38e7	8.623e2	1.569e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:16	3.65e7	6.91e7	6.59e6	1.25e7	6.553e2	1.604e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:14	3.36e7	6.53e7	5.94e6	1.16e7	1.116e4	1.491e4	0.51	
1,2,3,4,7,8-HxCDF	33:21	2.76e4	1.66e4	5.69e3	3.71e3	1.478e3	1.534e3	1.66	I

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Client Name	PASI Wisconsin		
Client ID	MAK009O	Injected By	SMT
Lab ID	10247063001	Instrument ID	10MSHR05 (F)
Filename	F131107B_06	GC Column ID	USD174324H
Analyzed	11/07/2013 23:21	ICAL ID	F131105

1,2,3,6,7,8-HxCDF		33:30	3.35e4	1.64e4	6.39e3	4.25e3	1.402e3	1.412e3	2.04	I
2,3,4,6,7,8-HxCDF		34:18	3.08e4	2.68e4	7.44e3	7.36e3	1.615e3	1.558e3	1.15	
1,2,3,7,8,9-HxCDF		35:15	1.74e4	1.67e4	4.27e3	2.92e3	1.344e3	1.227e3	1.04	I
Ethers	1	33:59	3.18e4	3.04e4					1.05	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	34:28	4.84e7	3.85e7	1.08e7	8.59e6	6.001e2	7.528e3	1.26	
1,2,3,6,7,8-HxCDD-13C	34:35	5.76e7	4.63e7	9.99e6	8.12e6	7.995e3	2.632e3	1.25	
1,2,3,7,8,9-HxCDD-13C	34:54	6.40e7	5.14e7	1.12e7	8.98e6	1.911e4	7.888e3	1.25	
1,2,3,4,7,8-HxCDD	34:29	3.41e4	2.53e4	8.82e3	5.07e3	8.855e2	1.283e3	1.35	
1,2,3,6,7,8-HxCDD	34:36	4.77e4	3.90e4	9.46e3	8.74e3	1.427e3	1.283e3	1.22	
1,2,3,7,8,9-HxCDD	34:58	2.31e4	2.65e4	4.75e3	4.54e3	1.228e3	1.267e3	0.87	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	36:58	3.26e7	7.08e7	6.65e6	1.40e7	5.428e3	1.380e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.80e7	6.36e7	5.26e6	1.19e7	2.899e3	1.530e4	0.44	
1,2,3,4,6,7,8-HpCDF	36:59	5.42e4	5.59e4	1.73e4	1.67e4	1.851e3	1.634e3	0.97	
1,2,3,4,7,8,9-HpCDF	38:35	2.99e4	3.07e4	7.25e3	6.67e3	1.658e3	1.896e3	0.97	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	5.13e7	4.76e7	9.45e6	9.05e6	1.312e4	6.288e3	1.08	
1,2,3,4,6,7,8-HpCDD	38:07	1.58e5	1.69e5	2.98e4	2.76e4	2.096e3	1.553e3	0.94	
Other HpCDD	1	37:18	5.30e4	6.06e4				0.88	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	8.58e4	8.51e4	2.18e4	1.78e4	2.274e3	2.959e3	1.01	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:53	6.88e7	7.83e7	1.36e7	1.57e7	6.514e3	4.699e4	0.88	
OCDD	40:53	6.40e5	7.80e5	1.34e5	1.50e5	1.264e3	3.694e3	0.82	

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Client Name	PASI Wisconsin		
Client ID	MAK009O	Injected By	SMT
Lab ID	10247063001	Instrument ID	10MSHR05 (F)
Filename	F131107B_06	GC Column ID	USD174324H
Analyzed	11/07/2013 23:21	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK010O	Injected By	BAL
Lab ID	10247063002	Instrument ID	10MSHR05 (F)
Filename	F131106A_05	GC Column ID	USD174324H
Analyzed	11/07/2013 02:31	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:23	4.54e7	5.89e7	6.39e6	7.90e6	1.084e4	7.353e3	0.77	
2,3,7,8-TCDF		18:26	4.44e4	5.57e4	7.40e3	7.92e3	1.152e3	9.882e2	0.80	E
Other TCDF	1	17:30	2.19e4	2.54e4					0.86	
Ethers	1	18:26	4.44e4	5.57e4					0.80	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:33	4.11e7	5.21e7	5.74e6	7.46e6	5.161e3	2.090e3	0.79	
2,3,7,8-TCDD-13C		19:24	3.78e7	4.76e7	5.02e6	6.37e6	3.779e3	3.290e3	0.79	
2,3,7,8-TCDD-37Cl4		19:25	8.61e6		1.16e6		6.161e2	-----		
2,3,7,8-TCDD		19:26	ND	ND	ND	ND	1.430e3	1.510e3		
Other TCDD	1	16:06	5.06e4	5.90e4					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	26:10	5.35e7	3.50e7	4.55e6	2.91e6	1.423e4	2.093e3	1.53	
2,3,4,7,8-PeCDF-13C	28:33	5.36e7	3.41e7	5.85e6	3.84e6	7.451e3	6.670e3	1.57	
1,2,3,7,8-PeCDF	26:09	1.64e4	1.33e4	3.33e3	2.05e3	1.288e3	1.107e3	1.23	I
2,3,4,7,8-PeCDF	28:38	2.64e4	1.76e4	4.04e3	4.79e3	1.014e3	1.107e3	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	29:12	4.29e7	2.82e7	4.99e6	3.24e6	4.626e3	4.986e3	1.52	
1,2,3,7,8-PeCDD	29:14	1.87e4	2.32e4	1.40e4	5.64e3	1.383e3	1.980e3	0.81	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	33:22	2.02e7	4.01e7	3.62e6	7.21e6	1.126e3	1.015e3	0.50	
1,2,3,6,7,8-HxCDF-13C	33:32	2.70e7	5.14e7	4.51e6	8.57e6	7.288e2	1.015e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:18	2.31e7	4.44e7	4.28e6	8.34e6	1.271e3	1.338e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:15	1.94e7	3.96e7	3.36e6	6.81e6	1.238e4	6.950e3	0.49	
1,2,3,4,7,8-HxCDF	33:24	2.57e4	2.08e4	1.13e4	2.87e3	1.468e3	1.732e3	1.23	

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Client Name	PASI Wisconsin		
Client ID	MAK010O	Injected By	BAL
Lab ID	10247063002	Instrument ID	10MSHR05 (F)
Filename	F131106A_05	GC Column ID	USD174324H
Analyzed	11/07/2013 02:31	ICAL ID	F131105

1,2,3,6,7,8-HxCDF	33:35	2.59e4	3.10e4	5.20e3	3.12e3	1.530e3	1.840e3	0.83	I
2,3,4,6,7,8-HxCDF	34:19	2.34e4	2.51e4	5.80e3	6.09e3	1.530e3	1.902e3	0.93	I
1,2,3,7,8,9-HxCDF	35:17	2.39e4	1.20e4	5.50e3	1.78e3	1.477e3	1.476e3	1.98	I

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:30	2.83e7	2.23e7	6.35e6	4.96e6	6.167e3	3.881e3	1.27	
1,2,3,6,7,8-HxCDD-13C	34:36	3.67e7	2.90e7	6.70e6	5.28e6	6.047e3	2.384e3	1.26	
1,2,3,7,8,9-HxCDD-13C	34:55	3.78e7	3.19e7	6.86e6	5.87e6	1.388e3	9.179e2	1.19	
1,2,3,4,7,8-HxCDD	34:32	1.94e4	2.93e4	4.33e3	6.45e3	1.775e3	1.516e3	0.66	I
1,2,3,6,7,8-HxCDD	34:40	3.43e4	2.35e4	7.32e3	5.66e3	1.586e3	1.416e3	1.46	I
1,2,3,7,8,9-HxCDD	34:57	3.11e4	1.83e4	8.71e3	4.83e3	1.573e3	1.713e3	1.70	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	36:59	1.81e7	4.12e7	3.76e6	8.39e6	1.519e4	5.860e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:35	1.49e7	3.42e7	2.87e6	6.36e6	3.791e3	2.940e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:59	3.52e4	3.28e4	1.02e4	7.27e3	2.601e3	1.049e3	1.07	
1,2,3,4,7,8,9-HpCDF	38:34	2.79e4	2.16e4	6.19e3	5.67e3	2.290e3	1.482e3	1.29	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	2.95e7	2.79e7	5.63e6	5.26e6	1.235e4	1.172e3	1.06	
1,2,3,4,6,7,8-HpCDD	38:07	6.70e4	8.39e4	1.79e4	2.29e4	1.645e3	2.142e3	0.80	I
Other HpCDD 1	37:16	3.87e4	3.99e4					0.97	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:60	6.43e4	6.23e4	1.75e4	1.52e4	2.089e3	3.563e3	1.03	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:53	3.79e7	4.29e7	7.96e6	9.08e6	1.450e4	4.098e3	0.88	
OCDD	40:53	2.66e5	2.63e5	5.00e4	5.48e4	5.153e3	4.951e3	1.01	

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Client Name	PASI Wisconsin		
Client ID	MAK010O	Injected By	BAL
Lab ID	10247063002	Instrument ID	10MSHR05 (F)
Filename	F131106A_05	GC Column ID	USD174324H
Analyzed	11/07/2013 02:31	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK011O	Injected By	BAL
Lab ID	10247063003	Instrument ID	10MSHR05 (F)
Filename	F131106A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 03:15	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:23	5.45e7	6.89e7	7.71e6	9.29e6	9.873e3	4.422e3	0.79	
2,3,7,8-TCDF		18:26	5.59e4	5.90e4	7.94e3	4.27e3	1.448e3	8.760e2	0.95	I
Other TCDF	1	17:29	2.43e4	3.66e4					0.66	
Ethers	1	18:52	1.64e4	1.97e4					0.83	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:34	5.07e7	6.53e7	7.95e6	9.82e6	2.524e3	1.932e3	0.78	
2,3,7,8-TCDD-13C	19:25	4.50e7	5.62e7	5.71e6	7.27e6	4.238e3	1.036e3	0.80	
2,3,7,8-TCDD-37Cl4	19:26	1.04e7		1.32e6		2.319e3	-----		
2,3,7,8-TCDD	19:27	ND	ND	ND	ND	1.488e3	1.035e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:10	6.60e7	4.19e7	5.76e6	3.71e6	1.498e4	1.590e3	1.57	
2,3,4,7,8-PeCDF-13C	28:33	6.49e7	4.10e7	7.15e6	4.64e6	5.859e3	2.731e3	1.58	
1,2,3,7,8-PeCDF	26:12	ND	ND	ND	ND	9.799e2	1.055e3		
2,3,4,7,8-PeCDF	28:33	1.17e4	6.46e3	3.05e3	1.73e3	1.146e3	9.543e2	1.81	I

Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		29:12	5.24e7	3.36e7	6.22e6	3.94e6	7.739e3	1.137e3	1.56	
1,2,3,7,8-PeCDD		29:15	2.45e4	1.73e4	5.77e3	2.17e3	9.055e2	1.268e3	1.41	I
Other PeCDD	1	26:16	1.41e4	2.04e4					0.69	

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	33:21	2.47e7	4.69e7	4.83e6	9.00e6	1.370e3	1.141e3	0.53	
1,2,3,6,7,8-HxCDF-13C	33:31	3.16e7	6.06e7	5.15e6	9.87e6	1.135e3	9.374e1	0.52	
2,3,4,6,7,8-HxCDF-13C	34:17	2.69e7	5.26e7	5.19e6	9.75e6	6.221e2	1.072e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:15	2.37e7	4.51e7	4.28e6	8.17e6	9.250e3	3.026e3	0.53	
1,2,3,4,7,8-HxCDF	33:23	2.45e4	2.98e4	4.27e3	5.70e3	1.638e3	1.852e3	0.82	I

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Client Name	PASI Wisconsin		
Client ID	MAK011O	Injected By	BAL
Lab ID	10247063003	Instrument ID	10MSHR05 (F)
Filename	F131106A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 03:15	ICAL ID	F131105

1,2,3,6,7,8-HxCDF	33:33	ND	ND	ND	ND	1.758e3	1.836e3	
2,3,4,6,7,8-HxCDF	34:19	ND	ND	ND	ND	1.311e3	1.950e3	
1,2,3,7,8,9-HxCDF	35:14	1.74e4	1.38e4	4.19e3	5.29e3	1.711e3	1.950e3	1.26

Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C		34:29	3.32e7	2.67e7	7.19e6	5.95e6	3.860e3	6.663e3	1.24	
1,2,3,6,7,8-HxCDD-13C		34:36	4.01e7	3.23e7	7.44e6	5.92e6	4.590e3	3.864e3	1.24	
1,2,3,7,8,9-HxCDD-13C		34:55	4.77e7	3.80e7	9.27e6	7.43e6	3.979e3	1.766e3	1.26	
1,2,3,4,7,8-HxCDD		34:27	1.79e4	1.32e4	3.21e3	4.54e3	1.277e3	1.744e3	1.35	
1,2,3,6,7,8-HxCDD		34:37	2.43e4	1.95e4	7.38e3	6.04e3	1.395e3	1.927e3	1.25	
1,2,3,7,8,9-HxCDD		34:56	2.04e4	1.60e4	4.34e3	5.93e3	1.473e3	1.927e3	1.28	
Other HxCDD	1	32:30	1.12e4	8.88e3					1.26	
	2	33:20	2.71e4	2.12e4					1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:58	2.12e7	4.59e7	4.45e6	1.01e7	1.392e4	2.883e2	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:35	1.75e7	3.74e7	3.47e6	7.44e6	8.225e3	3.610e3	0.47	
1,2,3,4,6,7,8-HpCDF	36:58	2.21e4	1.62e4	5.13e3	6.38e3	2.004e3	1.283e3	1.37	I
1,2,3,4,7,8,9-HpCDF	38:34	1.86e4	1.15e4	4.75e3	2.27e3	1.621e3	1.227e3	1.61	I

Hepta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C		38:06	3.30e7	3.18e7	6.76e6	6.27e6	1.066e4	5.520e3	1.04	
1,2,3,4,6,7,8-HpCDD		38:06	6.37e4	6.01e4	1.27e4	1.38e4	1.542e3	1.513e3	1.06	
Other HpCDD	1	37:17	3.56e4	3.84e4					0.93	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	5.70e4	7.31e4	1.20e4	1.62e4	1.605e3	3.470e3	0.78	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	4.39e7	4.93e7	9.50e6	1.01e7	5.492e3	2.321e3	0.89	
OCDD	40:53	2.74e5	3.24e5	6.65e4	5.87e4	2.808e3	6.571e3	0.85	

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Client Name	PASI Wisconsin		
Client ID	MAK011O	Injected By	BAL
Lab ID	10247063003	Instrument ID	10MSHR05 (F)
Filename	F131106A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 03:15	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK012O	Injected By	BAL
Lab ID	10247063004	Instrument ID	10MSHR05 (F)
Filename	F131106A_07	GC Column ID	USD174324H
Analyzed	11/07/2013 04:00	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:21	6.39e7	8.21e7	8.91e6	1.14e7	1.387e4	4.562e3	0.78	
2,3,7,8-TCDF		18:22	5.26e4	6.06e4	8.29e3	8.27e3	1.199e3	1.528e3	0.87	E
Other TCDF	1	17:29	2.71e4	3.77e4					0.72	
Ethers	1	18:22	5.26e4	6.06e4					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		18:32	6.12e7	7.85e7	9.19e6	1.18e7	4.694e3	1.724e3	0.78	
2,3,7,8-TCDD-13C		19:23	5.22e7	6.72e7	7.09e6	9.15e6	8.539e3	1.100e3	0.78	
2,3,7,8-TCDD-37Cl4		19:25	1.28e7		1.70e6		1.930e3	-----		
2,3,7,8-TCDD		19:25	ND	ND	ND	ND	1.776e3	1.518e3		
Other TCDD	1	15:46	1.11e5	1.57e5					0.71	
	2	16:04	6.20e4	9.23e4					0.67	

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		26:10	7.82e7	5.08e7	6.93e6	4.33e6	2.213e4	1.562e3	1.54	
2,3,4,7,8-PeCDF-13C		28:31	7.73e7	4.91e7	8.24e6	5.40e6	8.283e3	1.377e3	1.57	
1,2,3,7,8-PeCDF		26:06	1.38e4	1.19e4	5.77e3	8.10e2	1.123e3	1.073e3	1.16	I
2,3,4,7,8-PeCDF		28:32	7.86e3	9.90e3	2.59e3	1.42e3	1.156e3	8.311e2	0.79	I
Other PeCDF	1	26:19	9.34e3	5.40e3					1.73	

Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		29:11	6.53e7	4.25e7	7.78e6	4.94e6	2.839e3	6.253e2	1.54	
1,2,3,7,8-PeCDD		29:13	1.01e4	1.01e4	2.11e4	2.09e3	9.551e2	9.726e2	1.01	I
Other PeCDD	1	24:03	1.63e4	2.77e4					0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:21	3.15e7	6.11e7	5.76e6	1.12e7	2.118e3	7.481e2	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	4.05e7	7.83e7	6.95e6	1.32e7	1.919e3	7.345e2	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK012O	Injected By	BAL
Lab ID	10247063004	Instrument ID	10MSHR05 (F)
Filename	F131106A_07	GC Column ID	USD174324H
Analyzed	11/07/2013 04:00	ICAL ID	F131105

2,3,4,6,7,8-HxCDF-13C	34:16	3.57e7	6.81e7	6.82e6	1.31e7	1.777e3	5.503e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	3.13e7	6.14e7	5.60e6	1.10e7	3.207e3	1.002e4	0.51	
1,2,3,4,7,8-HxCDF	33:21	2.19e4	2.23e4	5.69e3	4.08e3	1.364e3	1.258e3	0.98	I
1,2,3,6,7,8-HxCDF	33:32	ND	ND	ND	ND	1.567e3	1.259e3		
2,3,4,6,7,8-HxCDF	34:16	1.84e4	1.30e4	4.68e3	2.82e3	1.389e3	1.149e3	1.42	
1,2,3,7,8,9-HxCDF	35:17	1.76e4	1.53e4	3.65e3	5.71e3	1.509e3	1.330e3	1.15	

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	34:29	4.54e7	3.67e7	9.82e6	7.92e6	2.151e4	4.338e3	1.24	
1,2,3,6,7,8-HxCDD-13C	34:35	5.57e7	4.45e7	1.00e7	8.05e6	2.209e4	4.738e3	1.25	
1,2,3,7,8,9-HxCDD-13C	34:54	6.33e7	5.15e7	1.17e7	9.75e6	7.454e3	1.266e3	1.23	
1,2,3,4,7,8-HxCDD	34:28	1.25e4	7.91e3	4.42e3	2.58e3	1.755e3	1.092e3	1.58	I
1,2,3,6,7,8-HxCDD	34:37	1.97e4	1.34e4	4.91e3	3.26e3	1.734e3	1.004e3	1.48	I
1,2,3,7,8,9-HxCDD	34:58	1.70e4	1.45e4	3.21e3	3.06e3	1.734e3	1.066e3	1.17	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:58	2.93e7	6.50e7	6.47e6	1.40e7	6.821e3	7.795e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.45e7	5.52e7	4.92e6	1.16e7	6.690e3	4.156e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:59	3.60e4	2.90e4	7.17e3	1.15e4	1.699e3	1.212e3	1.24	I
1,2,3,4,7,8,9-HpCDF	38:36	2.83e4	2.08e4	5.72e3	3.75e3	1.757e3	1.256e3	1.36	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	4.82e7	4.48e7	9.46e6	8.83e6	9.567e3	1.204e3	1.08	
1,2,3,4,6,7,8-HpCDD	38:06	6.70e4	5.68e4	1.45e4	1.55e4	2.132e3	1.507e3	1.18	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	7.52e4	6.38e4	1.62e4	1.41e4	1.925e3	2.643e3	1.18	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	6.77e7	7.60e7	1.40e7	1.55e7	7.237e3	1.585e3	0.89	
OCDD	40:52	3.64e5	4.33e5	7.53e4	8.63e4	3.034e3	4.275e3	0.84	

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Client Name	PASI Wisconsin		
Client ID	MAK012O	Injected By	BAL
Lab ID	10247063004	Instrument ID	10MSHR05 (F)
Filename	F131106A_07	GC Column ID	USD174324H
Analyzed	11/07/2013 04:00	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK013O	Injected By	BAL
Lab ID	10247063005	Instrument ID	10MSHR05 (F)
Filename	F131106A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 04:44	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:23	6.85e7	8.63e7	9.85e6	1.21e7	6.322e3	3.482e3	0.79	
2,3,7,8-TCDF		18:24	4.95e4	6.59e4	1.11e4	1.19e4	1.090e3	2.045e3	0.75	E
Other TCDF	1	20:15	9.01e3	1.21e4					0.74	
	2	17:28	3.67e4	5.01e4					0.73	
Ethers	1	18:24	4.95e4	6.59e4					0.75	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:34	6.35e7	8.12e7	9.32e6	1.21e7	8.024e3	1.719e3	0.78	
2,3,7,8-TCDD-13C	19:25	5.68e7	7.18e7	7.34e6	9.96e6	5.955e3	1.164e3	0.79	
2,3,7,8-TCDD-37Cl4	19:27	1.30e7		1.69e6		1.247e3	-----		
2,3,7,8-TCDD	19:27	ND	ND	ND	ND	2.244e3	1.584e3		

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	8.36e7	5.39e7	7.72e6	4.90e6	2.632e4	1.009e4	1.55	
2,3,4,7,8-PeCDF-13C	28:34	8.16e7	5.14e7	9.35e6	5.94e6	2.572e3	1.097e4	1.59	
1,2,3,7,8-PeCDF	26:16	ND	ND	ND	ND	1.785e3	1.304e3		
2,3,4,7,8-PeCDF	28:34	ND	ND	ND	ND	1.298e3	1.201e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:13	6.78e7	4.35e7	8.40e6	5.33e6	2.161e3	5.367e3	1.56	
1,2,3,7,8-PeCDD	29:12	1.51e4	1.89e4	3.30e4	2.48e3	1.380e3	1.684e3	0.80	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	33:22	3.43e7	6.34e7	6.21e6	1.21e7	1.729e3	1.579e3	0.54	
1,2,3,6,7,8-HxCDF-13C	33:32	4.11e7	8.21e7	7.06e6	1.36e7	1.729e3	5.140e2	0.50	
2,3,4,6,7,8-HxCDF-13C	34:18	3.56e7	6.81e7	6.63e6	1.29e7	1.729e3	1.001e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:15	3.30e7	6.32e7	6.19e6	1.16e7	8.781e3	1.061e4	0.52	
1,2,3,4,7,8-HxCDF	33:28	2.44e4	2.46e4	6.86e3	5.86e3	2.013e3	1.726e3	0.99	I

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Client Name	PASI Wisconsin		
Client ID	MAK013O	Injected By	BAL
Lab ID	10247063005	Instrument ID	10MSHR05 (F)
Filename	F131106A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 04:44	ICAL ID	F131105

1,2,3,6,7,8-HxCDF		33:34	1.06e4	1.33e4	3.06e3	4.55e3	1.766e3	1.726e3	0.80	I
2,3,4,6,7,8-HxCDF		34:19	1.67e4	1.44e4	2.65e3	3.07e3	1.856e3	1.697e3	1.16	
1,2,3,7,8,9-HxCDF		35:16	ND	ND	ND	ND	2.069e3	1.428e3		
Other HxCDF	1	33:60	1.43e4	1.30e4					1.10	

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	34:29	4.97e7	4.07e7	1.02e7	8.40e6	3.225e3	4.013e3	1.22	
1,2,3,6,7,8-HxCDD-13C	34:37	5.60e7	4.44e7	1.04e7	8.42e6	7.575e3	4.007e3	1.26	
1,2,3,7,8,9-HxCDD-13C	34:56	6.37e7	5.06e7	1.18e7	9.35e6	8.278e3	7.118e2	1.26	
1,2,3,4,7,8-HxCDD	34:31	ND	ND	ND	ND	1.692e3	1.595e3		
1,2,3,6,7,8-HxCDD	34:38	ND	ND	ND	ND	1.624e3	1.442e3		
1,2,3,7,8,9-HxCDD	34:57	ND	ND	ND	ND	2.060e3	1.687e3		
Other HxCDD 1	33:21	3.94e4	2.81e4					1.40	

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	36:59	2.87e7	6.64e7	6.22e6	1.50e7	3.861e3	1.577e4	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:35	2.60e7	5.64e7	5.37e6	1.13e7	4.624e3	4.845e3	0.46	
1,2,3,4,6,7,8-HpCDF	36:60	4.41e4	3.63e4	8.97e3	6.26e3	2.909e3	2.235e3	1.22	I
1,2,3,4,7,8,9-HpCDF	38:36	ND	ND	ND	ND	2.691e3	3.048e3		
Other HpCDF 1	37:26	4.18e4	3.68e4					1.13	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	4.95e7	4.51e7	1.00e7	9.31e6	2.836e4	1.541e3	1.10	
1,2,3,4,6,7,8-HpCDD	38:06	1.19e5	1.30e5	2.09e4	2.55e4	3.293e3	2.958e3	0.92	
Other HpCDD 1	37:18	1.07e5	9.23e4					1.16	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:60	1.00e5	9.38e4	2.16e4	2.08e4	3.559e3	3.425e3	1.07	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	6.51e7	7.24e7	1.29e7	1.52e7	1.760e4	1.588e4	0.90	

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Client Name	PASI Wisconsin		
Client ID	MAK013O	Injected By	BAL
Lab ID	10247063005	Instrument ID	10MSHR05 (F)
Filename	F131106A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 04:44	ICAL ID	F131105

OCDD	40:53	8.77e5	9.78e5	1.82e5	1.80e5	2.589e3	5.761e3	0.90

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK014O	Injected By	BAL
Lab ID	10247063006	Instrument ID	10MSHR05 (F)
Filename	F131106A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 05:29	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:21	6.80e7	8.63e7	9.43e6	1.18e7	9.728e3	5.477e3	0.79	
2,3,7,8-TCDF	18:23	3.62e4	6.14e4	9.13e3	1.09e4	1.169e3	1.437e3	0.59	I

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:32	5.95e7	7.61e7	8.74e6	1.12e7	3.148e3	1.338e3	0.78	
2,3,7,8-TCDD-13C	19:24	5.56e7	7.14e7	7.04e6	9.24e6	7.894e3	3.496e3	0.78	
2,3,7,8-TCDD-37Cl4	19:24	1.29e7		1.69e6		1.803e3	-----		
2,3,7,8-TCDD	19:26	ND	ND	ND	ND	1.631e3	1.140e3		
Other TCDD 1	15:47	1.68e5	1.97e5					0.85	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:10	8.12e7	5.14e7	6.94e6	4.35e6	1.837e4	2.986e3	1.58	
2,3,4,7,8-PeCDF-13C	28:32	7.94e7	5.03e7	8.70e6	5.49e6	6.506e3	6.912e3	1.58	
1,2,3,7,8-PeCDF	26:12	ND	ND	ND	ND	1.464e3	1.000e3		
2,3,4,7,8-PeCDF	28:33	1.12e4	8.76e3	2.51e3	1.80e3	1.368e3	1.002e3	1.27	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	29:12	6.68e7	4.26e7	7.93e6	5.06e6	3.493e3	4.631e3	1.57	
1,2,3,7,8-PeCDD	29:13	ND	ND	ND	ND	9.132e2	1.162e3		

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	33:21	3.34e7	6.38e7	6.07e6	1.18e7	2.314e3	1.946e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	4.09e7	7.89e7	7.02e6	1.31e7	2.314e3	6.569e2	0.52	
2,3,4,6,7,8-HxCDF-13C	34:17	3.66e7	6.95e7	6.90e6	1.29e7	9.943e2	1.211e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:14	3.23e7	6.28e7	6.16e6	1.15e7	3.735e3	6.255e3	0.52	
1,2,3,4,7,8-HxCDF	33:23	1.64e4	1.45e4	4.10e3	3.98e3	1.210e3	1.272e3	1.13	
1,2,3,6,7,8-HxCDF	33:33	ND	ND	ND	ND	1.081e3	1.026e3		
2,3,4,6,7,8-HxCDF	34:20	1.34e4	1.19e4	3.06e3	2.40e3	1.324e3	1.331e3	1.13	
1,2,3,7,8,9-HxCDF	35:14	1.31e4	1.44e4	3.36e3	3.67e3	1.310e3	1.135e3	0.91	I

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Client Name	PASI Wisconsin		
Client ID	MAK014O	Injected By	BAL
Lab ID	10247063006	Instrument ID	10MSHR05 (F)
Filename	F131106A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 05:29	ICAL ID	F131105

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	34:29	4.82e7	3.84e7	1.02e7	7.81e6	6.137e3	2.792e2	1.26	
1,2,3,6,7,8-HxCDD-13C	34:36	5.60e7	4.31e7	1.03e7	7.78e6	7.426e3	4.748e3	1.30	
1,2,3,7,8,9-HxCDD-13C	34:55	6.16e7	5.01e7	1.17e7	9.53e6	1.325e3	8.494e2	1.23	
1,2,3,4,7,8-HxCDD	34:30	7.85e3	7.62e3	1.99e3	1.94e3	1.305e3	1.062e3	1.03	I
1,2,3,6,7,8-HxCDD	34:37	1.25e4	1.82e4	3.14e3	6.07e3	1.337e3	1.414e3	0.69	I
1,2,3,7,8,9-HxCDD	34:55	1.13e4	1.15e4	2.94e3	2.21e3	1.558e3	1.637e3	0.99	I
Other HxCDD 1	33:21	3.65e4	3.40e4					1.07	

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	36:58	3.00e7	7.00e7	6.45e6	1.53e7	5.159e3	8.449e3	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.63e7	5.62e7	5.16e6	1.08e7	5.046e3	2.675e3	0.47	
1,2,3,4,6,7,8-HpCDF	36:57	3.10e4	2.54e4	5.91e3	5.28e3	1.570e3	1.755e3	1.22	I
1,2,3,4,7,8,9-HpCDF	38:36	2.15e4	1.19e4	5.89e3	3.37e3	1.744e3	1.167e3	1.81	I
Other HpCDF 1	37:26	4.09e4	4.24e4					0.96	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	4.94e7	4.67e7	9.70e6	9.31e6	6.678e3	2.724e3	1.06	
1,2,3,4,6,7,8-HpCDD	38:06	6.62e4	6.54e4	1.54e4	1.26e4	2.024e3	1.636e3	1.01	
Other HpCDD 1	37:20	5.96e4	6.08e4					0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	4.09e4	6.92e4	1.24e4	2.07e4	1.453e3	2.549e3	0.59	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	6.81e7	7.55e7	1.44e7	1.60e7	1.933e4	1.409e4	0.90	
OCDD	40:52	3.37e5	4.01e5	7.13e4	8.10e4	4.236e3	7.698e3	0.84	

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Client Name	PASI Wisconsin		
Client ID	MAK014O	Injected By	BAL
Lab ID	10247063006	Instrument ID	10MSHR05 (F)
Filename	F131106A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 05:29	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK015O	Injected By	BAL
Lab ID	10247063007	Instrument ID	10MSHR05 (F)
Filename	F131106A_10	GC Column ID	USD174324H
Analyzed	11/07/2013 06:14	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:20	8.38e7	1.08e8	1.18e7	1.53e7	1.355e4	3.654e3	0.78	
2,3,7,8-TCDF		18:26	6.01e4	6.10e4	6.25e3	6.84e3	1.156e3	1.556e3	0.98	I
Other TCDF	1	17:27	4.12e4	4.63e4					0.89	

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:31	8.32e7	1.03e8	1.21e7	1.50e7	5.458e3	2.553e3	0.81	
2,3,7,8-TCDD-13C		19:21	6.95e7	8.97e7	9.41e6	1.19e7	6.565e3	1.288e3	0.77	
2,3,7,8-TCDD-37Cl4		19:23	1.63e7		2.35e6		1.255e3	-----		
2,3,7,8-TCDD		19:22	ND	ND	ND	ND	1.572e3	1.668e3		
Other TCDD	1	15:45	1.54e5	1.78e5					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	26:07	1.03e8	6.48e7	8.75e6	5.54e6	2.338e4	2.139e3	1.59	
2,3,4,7,8-PeCDF-13C	28:30	1.01e8	6.48e7	1.13e7	7.19e6	6.313e3	3.502e3	1.56	
1,2,3,7,8-PeCDF	26:11	1.13e4	8.27e3	2.48e3	2.96e3	1.067e3	1.081e3	1.37	
2,3,4,7,8-PeCDF	28:30	1.51e4	1.02e4	2.04e3	1.57e3	1.097e3	1.023e3	1.48	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	8.37e7	5.45e7	9.89e6	6.35e6	2.771e3	2.725e3	1.53	
1,2,3,7,8-PeCDD	29:12	1.19e4	2.01e4	1.54e4	3.40e3	1.065e3	1.163e3	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:21	4.15e7	8.16e7	7.84e6	1.46e7	1.294e3	6.641e2	0.51	
1,2,3,6,7,8-HxCDF-13C	33:30	5.32e7	1.00e8	9.11e6	1.75e7	1.294e3	1.448e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:16	4.59e7	8.78e7	8.43e6	1.59e7	1.693e3	4.430e2	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	4.23e7	8.20e7	7.63e6	1.45e7	5.033e3	1.037e4	0.52	
1,2,3,4,7,8-HxCDF	33:21	1.46e4	1.30e4	3.77e3	3.67e3	1.386e3	7.382e2	1.12	
1,2,3,6,7,8-HxCDF	33:31	1.57e4	9.45e3	4.17e3	2.55e3	1.361e3	1.631e3	1.66	I
2,3,4,6,7,8-HxCDF	34:17	2.42e4	1.33e4	3.19e3	2.41e3	1.461e3	1.470e3	1.83	I

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK015O	Injected By	BAL
Lab ID	10247063007	Instrument ID	10MSHR05 (F)
Filename	F131106A_10	GC Column ID	USD174324H
Analyzed	11/07/2013 06:14	ICAL ID	F131105

1,2,3,7,8,9-HxCDF	35:12	1.44e4	1.56e4	3.85e3	3.07e3	1.306e3	1.288e3	0.92	I

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:28	6.07e7	4.87e7	1.30e7	1.05e7	4.378e4	6.443e3	1.24	
1,2,3,6,7,8-HxCDD-13C	34:35	7.14e7	5.65e7	1.28e7	1.04e7	2.264e4	1.331e4	1.26	
1,2,3,7,8,9-HxCDD-13C	34:54	8.19e7	6.75e7	1.48e7	1.20e7	8.595e3	9.841e2	1.21	
1,2,3,4,7,8-HxCDD	34:28	1.92e4	1.41e4	4.31e3	4.78e3	1.352e3	1.974e3	1.36	
1,2,3,6,7,8-HxCDD	34:37	2.17e4	2.45e4	4.61e3	6.67e3	1.753e3	2.125e3	0.89	I
1,2,3,7,8,9-HxCDD	34:57	1.11e4	1.87e4	1.38e3	4.90e3	1.903e3	1.801e3	0.59	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	36:58	3.91e7	8.73e7	8.20e6	1.93e7	1.765e4	5.156e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	3.39e7	7.54e7	6.94e6	1.54e7	1.765e4	5.156e3	0.45	
1,2,3,4,6,7,8-HpCDF	36:59	3.09e4	3.36e4	1.01e4	1.04e4	2.401e3	1.704e3	0.92	
1,2,3,4,7,8,9-HpCDF	38:35	1.99e4	1.32e4	7.33e3	2.92e3	2.116e3	1.750e3	1.51	I
Other HpCDF 1	37:26	3.75e4	3.60e4					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	38:05	6.26e7	5.76e7	1.21e7	1.12e7	1.467e4	6.607e3	1.09	
1,2,3,4,6,7,8-HpCDD	38:06	7.95e4	8.78e4	2.38e4	2.44e4	2.052e3	1.583e3	0.91	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	7.03e4	1.01e5	1.33e4	2.03e4	1.898e3	2.389e3	0.69	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	8.87e7	9.74e7	1.86e7	2.10e7	1.819e4	5.884e3	0.91	
OCDD	40:52	4.09e5	4.68e5	7.74e4	1.03e5	3.092e3	6.611e3	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK016O	Injected By	SMT
Lab ID	10247063008	Instrument ID	10MSHR05 (F)
Filename	F131107A_07	GC Column ID	USD174324H
Analyzed	11/07/2013 12:53	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:20	6.62e7	8.49e7	9.62e6	1.19e7	1.141e4	7.998e3	0.78	
2,3,7,8-TCDF	18:24	5.88e4	5.82e4	1.57e3	2.84e3	1.074e3	1.125e3	1.01	I
Other TCDF 1	17:24	3.39e4	4.65e4					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	18:31	6.64e7	8.37e7	9.40e6	1.20e7	3.011e3	1.279e4	0.79	
2,3,7,8-TCDD-13C	19:22	5.75e7	7.30e7	7.06e6	9.12e6	9.797e3	1.261e4	0.79	
2,3,7,8-TCDD-37Cl4	19:23	1.34e7		1.77e6		2.384e3	-----		
2,3,7,8-TCDD	19:23	ND	ND	ND	ND	1.819e3	1.594e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:07	7.84e7	5.08e7	6.82e6	4.40e6	3.231e3	5.997e3	1.54	
2,3,4,7,8-PeCDF-13C	28:30	7.84e7	4.95e7	8.96e6	5.43e6	8.752e3	7.216e3	1.58	
1,2,3,7,8-PeCDF	26:11	2.65e4	1.39e4	4.02e3	3.24e3	1.334e3	1.014e3	1.91	I
2,3,4,7,8-PeCDF	28:30	2.74e4	1.12e4	4.62e3	2.90e3	1.340e3	1.258e3	2.45	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	29:09	6.70e7	4.29e7	7.62e6	5.00e6	8.192e3	4.278e3	1.56	
1,2,3,7,8-PeCDD	29:12	ND	ND	ND	ND	1.216e3	1.253e3		

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	33:21	3.48e7	6.65e7	6.44e6	1.20e7	2.006e3	1.602e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:29	4.22e7	8.20e7	6.92e6	1.34e7	1.250e3	1.648e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:16	3.76e7	7.48e7	7.73e6	1.47e7	8.009e3	2.290e4	0.50	
1,2,3,7,8,9-HxCDF-13C	35:13	3.47e7	6.82e7	6.57e6	1.27e7	3.072e3	2.193e4	0.51	
1,2,3,4,7,8-HxCDF	33:21	3.09e4	1.62e4	7.43e3	4.79e3	1.277e3	1.258e3	1.91	I
1,2,3,6,7,8-HxCDF	33:32	2.60e4	1.92e4	5.82e3	4.05e3	1.277e3	1.288e3	1.35	
2,3,4,6,7,8-HxCDF	34:15	3.36e4	2.97e4	5.95e3	7.92e3	1.263e3	1.185e3	1.13	
1,2,3,7,8,9-HxCDF	35:14	3.04e4	2.36e4	5.14e3	4.67e3	1.163e3	1.197e3	1.29	

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Client Name	PASI Wisconsin		
Client ID	MAK016O	Injected By	SMT
Lab ID	10247063008	Instrument ID	10MSHR05 (F)
Filename	F131107A_07	GC Column ID	USD174324H
Analyzed	11/07/2013 12:53	ICAL ID	F131105

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	34:28	5.17e7	4.12e7	1.09e7	8.68e6	7.916e3	2.995e3	1.26	
1,2,3,6,7,8-HxCDD-13C	34:35	5.80e7	4.69e7	1.05e7	8.73e6	7.916e3	1.017e4	1.24	
1,2,3,7,8,9-HxCDD-13C	34:54	6.80e7	5.46e7	1.27e7	1.04e7	7.590e3	1.339e4	1.25	
1,2,3,4,7,8-HxCDD	34:27	1.15e4	1.29e4	2.85e3	4.59e3	1.635e3	1.406e3	0.89	I
1,2,3,6,7,8-HxCDD	34:35	2.18e4	1.60e4	8.86e3	3.27e3	1.607e3	1.406e3	1.37	
1,2,3,7,8,9-HxCDD	34:53	1.64e4	1.64e4	5.46e3	4.38e3	1.529e3	1.145e3	1.00	I
Other HxCDD 1	33:17	4.48e4	3.36e4					1.33	

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	36:57	3.53e7	7.77e7	7.73e6	1.65e7	5.866e3	8.051e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.82e7	6.27e7	5.56e6	1.23e7	3.045e3	1.014e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:59	4.42e4	4.76e4	8.58e3	1.55e4	2.845e3	1.957e3	0.93	
1,2,3,4,7,8,9-HpCDF	38:34	3.57e4	2.68e4	7.16e3	3.65e3	2.429e3	2.103e3	1.33	I
Other HpCDF 1	37:25	3.39e4	2.83e4					1.20	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	5.41e7	5.04e7	1.06e7	9.93e6	2.789e3	3.371e3	1.07	
1,2,3,4,6,7,8-HpCDD	38:07	1.10e5	9.63e4	2.18e4	1.93e4	1.984e3	1.340e3	1.14	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	9.32e4	8.03e4	2.06e4	1.87e4	1.753e3	2.197e3	1.16	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	6.89e7	7.84e7	1.49e7	1.65e7	1.565e4	2.594e4	0.88	
OCDD	40:53	4.46e5	4.86e5	8.80e4	9.93e4	2.659e3	4.779e3	0.92	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK017O	Injected By	SMT
Lab ID	10247063009	Instrument ID	10MSHR05 (F)
Filename	F131107A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 13:38	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:22	6.17e7	7.95e7	8.67e6	1.11e7	1.355e4	1.036e4	0.78	
2,3,7,8-TCDF		18:23	3.75e4	7.73e4	5.39e2	7.84e3	1.258e3	1.550e3	0.48	I
Other TCDF	1	17:32	3.97e4	5.22e4					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	18:33	6.18e7	7.97e7	8.99e6	1.15e7	6.901e3	6.705e3	0.78	
2,3,7,8-TCDD-13C	19:22	5.44e7	7.07e7	6.90e6	9.28e6	1.378e4	4.375e3	0.77	
2,3,7,8-TCDD-37Cl4	19:25	1.30e7		1.64e6		2.803e3	-----		
2,3,7,8-TCDD	19:23	ND	ND	ND	ND	1.374e3	1.269e3		

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		26:09	7.62e7	4.87e7	6.44e6	4.15e6	2.945e3	1.547e4	1.57	
2,3,4,7,8-PeCDF-13C		28:33	7.39e7	4.65e7	7.69e6	5.01e6	1.155e4	6.192e4	1.59	
1,2,3,7,8-PeCDF		26:11	ND	ND	ND	ND	1.101e3	9.576e2		
2,3,4,7,8-PeCDF		28:33	2.45e4	1.65e4	4.15e3	3.74e3	1.007e3	1.170e3	1.48	
Other PeCDF	1	23:45	4.11e4	2.95e4					1.39	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:12	6.35e7	4.11e7	7.28e6	4.74e6	7.820e3	2.200e3	1.55	
1,2,3,7,8-PeCDD	29:15	ND	ND	ND	ND	1.099e3	1.251e3		
Other PeCDD	1	23:56	1.54e4	2.81e4				0.55	

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	33:21	2.94e7	5.76e7	5.51e6	1.10e7	1.649e3	1.933e3	0.51	
1,2,3,6,7,8-HxCDF-13C	33:31	4.00e7	7.54e7	6.74e6	1.26e7	9.569e2	1.722e3	0.53	
2,3,4,6,7,8-HxCDF-13C	34:17	3.27e7	6.16e7	6.18e6	1.18e7	3.093e2	1.074e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:14	3.00e7	5.69e7	5.61e6	1.08e7	2.321e3	2.972e4	0.53	
1,2,3,4,7,8-HxCDF	33:22	2.32e4	1.81e4	6.09e3	3.54e3	1.863e3	1.765e3	1.28	
1,2,3,6,7,8-HxCDF	33:30	3.05e4	1.74e4	6.82e3	3.43e3	1.976e3	1.908e3	1.75	I

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Client Name	PASI Wisconsin		
Client ID	MAK017O	Injected By	SMT
Lab ID	10247063009	Instrument ID	10MSHR05 (F)
Filename	F131107A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 13:38	ICAL ID	F131105

2,3,4,6,7,8-HxCDF	34:19	1.89e4	2.30e4	5.99e3	3.71e3	1.833e3	1.639e3	0.82	I
1,2,3,7,8,9-HxCDF	35:15	ND	ND	ND	ND	1.791e3	1.319e3		

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	34:29	4.44e7	3.59e7	9.38e6	7.66e6	6.862e3	4.069e3	1.24	
1,2,3,6,7,8-HxCDD-13C	34:36	4.94e7	4.01e7	9.03e6	7.61e6	6.862e3	5.999e3	1.23	
1,2,3,7,8,9-HxCDD-13C	34:55	5.75e7	4.76e7	1.11e7	8.84e6	1.913e4	1.277e4	1.21	
1,2,3,4,7,8-HxCDD	34:29	2.06e4	7.80e3	5.37e3	2.35e3	1.257e3	1.711e3	2.64	I
1,2,3,6,7,8-HxCDD	34:38	2.05e4	2.51e4	6.61e3	9.25e3	1.518e3	1.518e3	0.81	I
1,2,3,7,8,9-HxCDD	34:55	1.61e4	1.42e4	5.99e3	4.30e3	1.467e3	1.711e3	1.14	
Other HxCDD 1	33:21	4.64e4	3.45e4					1.34	

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	36:58	2.81e7	6.23e7	6.21e6	1.38e7	5.501e3	1.699e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.20e7	5.02e7	4.20e6	1.00e7	5.359e3	5.911e3	0.44	
1,2,3,4,6,7,8-HpCDF	36:58	2.86e4	2.42e4	9.57e3	6.00e3	1.921e3	1.454e3	1.18	
1,2,3,4,7,8,9-HpCDF	38:34	2.34e4	1.61e4	6.24e3	1.06e4	1.921e3	1.504e3	1.45	I
Other HpCDF 1	37:25	2.68e4	2.54e4					1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	4.30e7	4.13e7	8.87e6	8.35e6	1.016e3	1.820e3	1.04	
1,2,3,4,6,7,8-HpCDD	38:05	6.91e4	4.18e4	1.21e4	9.59e3	1.452e3	1.528e3	1.65	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:60	5.94e4	5.64e4	1.50e4	1.40e4	1.555e3	1.701e3	1.05	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	6.10e7	6.81e7	1.29e7	1.43e7	1.051e4	9.404e3	0.90	
OCDD	40:53	3.10e5	3.25e5	6.89e4	7.69e4	4.614e3	7.765e3	0.95	

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Client Name	PASI Wisconsin		
Client ID	MAK017O	Injected By	SMT
Lab ID	10247063009	Instrument ID	10MSHR05 (F)
Filename	F131107A_08	GC Column ID	USD174324H
Analyzed	11/07/2013 13:38	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK018O	Injected By	SMT
Lab ID	10247063010	Instrument ID	10MSHR05 (F)
Filename	F131107A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 14:23	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:21	6.63e7	8.51e7	9.22e6	1.20e7	7.869e3	1.024e4	0.78	
2,3,7,8-TCDF		18:25	4.36e4	6.60e4	8.49e3	1.15e4	1.261e3	1.540e3	0.66	E
Ethers	1	18:25	4.36e4	6.60e4					0.66	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:32	6.75e7	8.69e7	9.76e6	1.27e7	1.006e4	6.656e3	0.78	
2,3,7,8-TCDD-13C		19:22	5.82e7	7.38e7	7.79e6	9.93e6	6.853e3	5.197e3	0.79	
2,3,7,8-TCDD-37Cl4		19:24	1.38e7		1.76e6		9.923e2	-----		
2,3,7,8-TCDD		19:23	ND	ND	ND	ND	1.754e3	1.443e3		
Other TCDD	1	16:04	9.14e4	1.03e5					0.89	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:08	8.08e7	5.08e7	7.02e6	4.48e6	3.676e3	1.796e3	1.59	
2,3,4,7,8-PeCDF-13C	28:31	7.88e7	5.02e7	8.51e6	5.57e6	1.040e5	3.310e3	1.57	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	1.579e3	1.064e3		
2,3,4,7,8-PeCDF	28:33	ND	ND	ND	ND	1.260e3	8.988e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	6.63e7	4.27e7	7.68e6	4.99e6	2.945e3	4.919e3	1.55	
1,2,3,7,8-PeCDD	29:14	ND	ND	ND	ND	1.231e3	1.131e3		

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	33:21	3.21e7	6.20e7	6.17e6	1.19e7	1.113e3	2.459e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	4.00e7	7.87e7	6.45e6	1.30e7	1.094e3	2.208e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:16	3.48e7	6.68e7	6.73e6	1.29e7	1.056e3	1.526e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	3.18e7	6.09e7	5.71e6	1.09e7	1.026e4	1.057e4	0.52	
1,2,3,4,7,8-HxCDF	33:21	ND	ND	ND	ND	1.753e3	1.315e3		
1,2,3,6,7,8-HxCDF	33:31	ND	ND	ND	ND	1.496e3	1.399e3		

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK018O	Injected By	SMT
Lab ID	10247063010	Instrument ID	10MSHR05 (F)
Filename	F131107A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 14:23	ICAL ID	F131105

2,3,4,6,7,8-HxCDF	34:16	1.71e4	1.59e4	4.71e3	4.91e3	1.828e3	1.324e3	1.07	
1,2,3,7,8,9-HxCDF	35:14	ND	ND	ND	ND	1.914e3	1.698e3		

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	34:28	4.68e7	3.73e7	1.05e7	8.34e6	3.806e3	1.680e3	1.26	
1,2,3,6,7,8-HxCDD-13C	34:35	5.39e7	4.28e7	9.80e6	7.98e6	7.039e3	5.397e3	1.26	
1,2,3,7,8,9-HxCDD-13C	34:54	6.17e7	5.21e7	1.17e7	9.78e6	1.035e4	9.612e3	1.18	
1,2,3,4,7,8-HxCDD	34:29	ND	ND	ND	ND	1.595e3	1.453e3		
1,2,3,6,7,8-HxCDD	34:36	ND	ND	ND	ND	1.252e3	1.338e3		
1,2,3,7,8,9-HxCDD	34:55	1.55e4	9.80e3	6.24e3	3.48e3	1.394e3	1.071e3	1.58	I
Other HxCDD 1	33:18	4.25e4	3.10e4					1.37	

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	36:58	2.94e7	6.46e7	6.23e6	1.39e7	8.299e3	1.440e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.56e7	5.74e7	5.10e6	1.16e7	5.845e3	8.148e3	0.45	
1,2,3,4,6,7,8-HpCDF	36:57	2.50e4	2.97e4	6.90e3	1.04e4	1.643e3	1.842e3	0.84	I
1,2,3,4,7,8,9-HpCDF	38:35	1.50e4	1.94e4	5.32e3	7.38e3	1.344e3	1.272e3	0.77	I

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	4.49e7	4.02e7	9.06e6	7.96e6	2.081e3	3.742e3	1.12	
1,2,3,4,6,7,8-HpCDD	38:06	4.90e4	4.96e4	1.16e4	1.33e4	1.505e3	1.337e3	0.99	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	4.57e4	6.89e4	1.23e4	1.53e4	1.628e3	3.061e3	0.66	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	6.51e7	7.36e7	1.35e7	1.49e7	9.697e3	8.443e3	0.88	
OCDD	40:51	3.34e5	3.31e5	6.12e4	5.88e4	3.365e3	6.658e3	1.01	

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Client Name	PASI Wisconsin		
Client ID	MAK018O	Injected By	SMT
Lab ID	10247063010	Instrument ID	10MSHR05 (F)
Filename	F131107A_09	GC Column ID	USD174324H
Analyzed	11/07/2013 14:23	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK019O	Injected By	SMT
Lab ID	10247063011	Instrument ID	10MSHR05 (F)
Filename	F131107A_10	GC Column ID	USD174324H
Analyzed	11/07/2013 15:08	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:22	6.37e7	8.03e7	8.77e6	1.12e7	1.410e4	8.442e3	0.79	
2,3,7,8-TCDF	18:25	6.25e4	7.70e4	3.97e3	7.18e3	8.127e2	1.185e3	0.81	
Other TCDF 1	17:30	3.54e4	5.14e4					0.69	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:32	6.61e7	8.58e7	9.37e6	1.26e7	5.898e3	7.853e3	0.77	
2,3,7,8-TCDD-13C	19:22	5.37e7	6.94e7	6.96e6	8.76e6	1.168e4	6.775e3	0.77	
2,3,7,8-TCDD-37Cl4	19:25	1.28e7		1.64e6		2.729e3	-----		
2,3,7,8-TCDD	19:23	ND	ND	ND	ND	1.447e3	1.935e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:08	7.44e7	4.77e7	6.50e6	4.21e6	1.270e3	1.110e4	1.56	
2,3,4,7,8-PeCDF-13C	28:31	7.40e7	4.71e7	7.94e6	5.01e6	6.162e3	5.048e3	1.57	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	1.007e3	1.002e3		
2,3,4,7,8-PeCDF	28:35	2.45e4	1.31e4	3.50e3	3.34e3	1.288e3	9.237e2	1.87	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	29:10	6.29e7	4.07e7	7.29e6	4.69e6	2.751e3	3.415e3	1.55	
1,2,3,7,8-PeCDD	29:13	ND	ND	ND	ND	9.286e2	1.390e3		

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	33:21	2.96e7	5.71e7	5.49e6	1.05e7	9.732e2	2.018e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	3.86e7	7.50e7	6.68e6	1.24e7	5.549e1	3.689e4	0.51	
2,3,4,6,7,8-HxCDF-13C	34:17	3.40e7	6.47e7	6.29e6	1.20e7	1.144e3	2.018e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:14	2.99e7	5.83e7	5.57e6	1.09e7	6.585e3	8.882e3	0.51	
1,2,3,4,7,8-HxCDF	33:21	1.52e4	1.79e4	4.22e3	4.96e3	1.553e3	1.467e3	0.85	I
1,2,3,6,7,8-HxCDF	33:31	2.25e4	2.12e4	3.14e3	5.54e3	1.416e3	1.562e3	1.06	
2,3,4,6,7,8-HxCDF	34:18	1.41e4	1.29e4	2.56e3	1.68e3	1.651e3	1.665e3	1.09	
1,2,3,7,8,9-HxCDF	35:15	ND	ND	ND	ND	1.688e3	1.243e3		

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Client Name	PASI Wisconsin		
Client ID	MAK019O	Injected By	SMT
Lab ID	10247063011	Instrument ID	10MSHR05 (F)
Filename	F131107A_10	GC Column ID	USD174324H
Analyzed	11/07/2013 15:08	ICAL ID	F131105

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	34:28	4.35e7	3.47e7	9.48e6	7.59e6	3.561e3	6.510e3	1.25	
1,2,3,6,7,8-HxCDD-13C	34:35	5.41e7	4.23e7	1.01e7	7.79e6	1.129e3	5.927e3	1.28	
1,2,3,7,8,9-HxCDD-13C	34:54	6.32e7	5.24e7	1.22e7	9.91e6	1.164e4	1.489e4	1.20	
1,2,3,4,7,8-HxCDD	34:29	1.26e4	9.46e3	4.90e3	3.49e3	1.299e3	1.268e3	1.34	
1,2,3,6,7,8-HxCDD	34:37	1.58e4	1.05e4	4.23e3	3.18e3	1.502e3	1.095e3	1.50	I
1,2,3,7,8,9-HxCDD	34:55	ND	ND	ND	ND	1.502e3	1.044e3		

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	36:58	2.78e7	6.19e7	6.07e6	1.39e7	8.986e3	7.131e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.37e7	5.49e7	4.64e6	1.08e7	6.589e3	1.392e4	0.43	
1,2,3,4,6,7,8-HpCDF	36:60	2.37e4	2.53e4	7.60e3	8.40e3	1.688e3	1.467e3	0.93	
1,2,3,4,7,8,9-HpCDF	38:35	1.53e4	1.12e4	5.82e3	3.06e3	1.729e3	1.767e3	1.37	I
Other HpCDF 1	37:25	1.58e4	1.76e4					0.90	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:06	4.48e7	4.01e7	9.07e6	8.42e6	6.114e3	3.212e4	1.12	
1,2,3,4,6,7,8-HpCDD	38:06	4.65e4	4.70e4	1.12e4	9.88e3	1.178e3	1.318e3	0.99	
Other HpCDD 1	37:19	4.26e4	3.82e4					1.11	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	5.28e4	7.44e4	1.09e4	1.69e4	1.617e3	2.026e3	0.71	I

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	6.21e7	6.93e7	1.23e7	1.42e7	3.731e4	1.385e4	0.90	
OCDD	40:52	2.73e5	3.27e5	5.82e4	6.72e4	2.436e3	5.211e3	0.84	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK020O	Injected By	SMT
Lab ID	10247063012	Instrument ID	10MSHR05 (F)
Filename	F131107A_11	GC Column ID	USD174324H
Analyzed	11/07/2013 15:52	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:22	5.71e7	7.25e7	8.04e6	1.02e7	1.727e4	5.272e3	0.79	
2,3,7,8-TCDF		18:26	4.37e4	5.87e4	4.79e3	8.93e3	1.044e3	1.535e3	0.74	E
Other TCDF	1	20:56	9.47e3	1.32e4					0.72	
	2	17:28	3.20e4	4.10e4					0.78	
Ethers	1	18:26	4.37e4	5.87e4					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		18:33	5.51e7	7.14e7	8.37e6	1.05e7	8.671e3	2.266e3	0.77	
2,3,7,8-TCDD-13C		19:24	5.00e7	6.36e7	6.46e6	8.16e6	4.894e3	6.672e3	0.79	
2,3,7,8-TCDD-37Cl4		19:25	1.16e7		1.50e6		7.618e2	-----		
2,3,7,8-TCDD		19:25	ND	ND	ND	ND	1.715e3	1.481e3		
Other TCDD	1	16:04	4.90e4	7.44e4					0.66	
	2	15:49	1.41e5	2.18e5					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	26:10	6.93e7	4.36e7	5.96e6	3.80e6	1.830e4	2.525e3	1.59	
2,3,4,7,8-PeCDF-13C	28:32	6.72e7	4.30e7	7.48e6	4.74e6	5.926e3	4.737e3	1.56	
1,2,3,7,8-PeCDF	26:11	ND	ND	ND	ND	1.058e3	9.237e2		
2,3,4,7,8-PeCDF	28:34	ND	ND	ND	ND	8.903e2	9.237e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	5.87e7	3.70e7	6.73e6	4.40e6	6.303e3	5.060e3	1.59	
1,2,3,7,8-PeCDD	29:14	ND	ND	ND	ND	1.371e3	1.458e3		

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	33:21	2.87e7	5.54e7	5.28e6	1.04e7	2.495e3	1.786e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	3.58e7	6.85e7	5.89e6	1.17e7	2.265e4	4.314e4	0.52	
2,3,4,6,7,8-HxCDF-13C	34:17	3.14e7	6.06e7	5.97e6	1.13e7	2.495e3	1.786e3	0.52	

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Client Name	PASI Wisconsin		
Client ID	MAK020O	Injected By	SMT
Lab ID	10247063012	Instrument ID	10MSHR05 (F)
Filename	F131107A_11	GC Column ID	USD174324H
Analyzed	11/07/2013 15:52	ICAL ID	F131105

1,2,3,7,8,9-HxCDF-13C	35:14	2.85e7	5.48e7	5.25e6	1.01e7	6.792e3	1.602e4	0.52
1,2,3,4,7,8-HxCDF	33:22	ND	ND	ND	ND	1.133e3	1.315e3	
1,2,3,6,7,8-HxCDF	33:32	ND	ND	ND	ND	1.448e3	1.481e3	
2,3,4,6,7,8-HxCDF	34:19	ND	ND	ND	ND	1.448e3	1.315e3	
1,2,3,7,8,9-HxCDF	35:15	ND	ND	ND	ND	1.040e3	1.066e3	

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	34:29	4.26e7	3.40e7	8.80e6	7.07e6	5.127e3	2.474e3	1.25	
1,2,3,6,7,8-HxCDD-13C	34:36	4.75e7	3.75e7	9.04e6	7.22e6	4.355e3	2.822e3	1.27	
1,2,3,7,8,9-HxCDD-13C	34:55	5.42e7	4.40e7	1.03e7	8.36e6	6.548e3	3.440e3	1.23	
1,2,3,4,7,8-HxCDD	34:30	1.83e4	8.93e3	4.24e3	2.81e3	1.390e3	1.065e3	2.05	I
1,2,3,6,7,8-HxCDD	34:37	ND	ND	ND	ND	1.374e3	1.024e3		
1,2,3,7,8,9-HxCDD	34:56	ND	ND	ND	ND	1.390e3	1.024e3		

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	36:58	2.68e7	5.87e7	5.86e6	1.28e7	3.883e3	1.390e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:35	2.21e7	4.97e7	4.48e6	1.01e7	3.658e3	1.852e4	0.44	
1,2,3,4,6,7,8-HpCDF	36:59	3.08e4	2.95e4	1.00e4	6.13e3	1.616e3	1.290e3	1.04	
1,2,3,4,7,8,9-HpCDF	38:36	ND	ND	ND	ND	2.218e3	1.143e3		
Other HpCDF 1	37:26	2.19e4	2.15e4					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	38:06	4.18e7	3.75e7	8.44e6	7.44e6	1.102e4	2.211e4	1.11	
1,2,3,4,6,7,8-HpCDD	38:07	5.75e4	5.19e4	1.45e4	1.27e4	1.448e3	1.199e3	1.11	
Other HpCDD 1	37:18	4.00e4	4.24e4					0.94	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:60	5.50e4	6.45e4	1.53e4	1.82e4	1.725e3	2.404e3	0.85	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	5.86e7	6.34e7	1.25e7	1.43e7	9.283e2	6.534e2	0.92	

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Client Name	PASI Wisconsin		
Client ID	MAK020O	Injected By	SMT
Lab ID	10247063012	Instrument ID	10MSHR05 (F)
Filename	F131107A_11	GC Column ID	USD174324H
Analyzed	11/07/2013 15:52	ICAL ID	F131105

OCDD	40:53	2.76e5	2.98e5	4.93e4	6.18e4	3.344e3	5.050e3	0.93

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK021O	Injected By	SMT
Lab ID	10247063013	Instrument ID	10MSHR05 (F)
Filename	F131107A_12	GC Column ID	USD174324H
Analyzed	11/07/2013 16:37	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:21	6.53e7	8.28e7	8.92e6	1.13e7	8.027e3	4.858e3	0.79	
2,3,7,8-TCDF		18:22	4.19e4	5.93e4	9.22e3	1.15e4	1.485e3	1.444e3	0.71	E
Other TCDF	1	17:26	2.50e4	3.01e4					0.83	
Ethers	1	18:22	4.19e4	5.93e4					0.71	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:32	6.65e7	8.65e7	9.85e6	1.26e7	3.214e3	2.388e3	0.77	
2,3,7,8-TCDD-13C		19:22	5.59e7	7.20e7	7.30e6	9.77e6	6.310e3	9.710e3	0.78	
2,3,7,8-TCDD-37Cl4		19:25	1.35e7		1.66e6		1.412e3	-----		
2,3,7,8-TCDD		19:23	ND	ND	ND	ND	1.789e3	1.549e3		
Other TCDD	1	16:06	5.96e4	8.98e4					0.66	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:08	8.06e7	5.13e7	7.30e6	4.62e6	2.625e4	1.974e4	1.57	
2,3,4,7,8-PeCDF-13C	28:32	7.86e7	5.07e7	8.42e6	5.33e6	1.023e4	7.649e3	1.55	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	1.250e3	1.071e3		
2,3,4,7,8-PeCDF	28:34	ND	ND	ND	ND	1.351e3	1.042e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	6.63e7	4.27e7	7.58e6	4.93e6	2.599e3	1.282e3	1.55	
1,2,3,7,8-PeCDD	29:14	ND	ND	ND	ND	1.106e3	1.505e3		

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	33:21	3.28e7	6.32e7	5.77e6	1.11e7	1.775e3	5.180e4	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	4.18e7	8.06e7	6.98e6	1.36e7	2.444e4	2.704e4	0.52	
2,3,4,6,7,8-HxCDF-13C	34:16	3.49e7	6.77e7	6.46e6	1.29e7	1.158e3	2.646e3	0.51	
1,2,3,7,8,9-HxCDF-13C	35:13	3.24e7	6.21e7	5.69e6	1.10e7	8.556e3	2.491e4	0.52	
1,2,3,4,7,8-HxCDF	33:22	ND	ND	ND	ND	1.289e3	1.655e3		

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Client Name	PASI Wisconsin		
Client ID	MAK021O	Injected By	SMT
Lab ID	10247063013	Instrument ID	10MSHR05 (F)
Filename	F131107A_12	GC Column ID	USD174324H
Analyzed	11/07/2013 16:37	ICAL ID	F131105

1,2,3,6,7,8-HxCDF	33:31	ND	ND	ND	ND	1.801e3	1.703e3		
2,3,4,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.769e3	1.560e3		
1,2,3,7,8,9-HxCDF	35:14	ND	ND	ND	ND	1.680e3	1.466e3		

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	34:28	4.72e7	3.78e7	1.00e7	8.11e6	6.794e3	3.233e3	1.25	
1,2,3,6,7,8-HxCDD-13C	34:35	5.58e7	4.51e7	1.07e7	8.45e6	1.139e3	2.079e3	1.24	
1,2,3,7,8,9-HxCDD-13C	34:54	6.58e7	5.10e7	1.27e7	9.74e6	1.643e3	6.651e3	1.29	
1,2,3,4,7,8-HxCDD	34:29	ND	ND	ND	ND	1.280e3	1.640e3		
1,2,3,6,7,8-HxCDD	34:38	1.21e4	1.38e4	3.45e3	6.58e3	1.784e3	1.742e3	0.87	I
1,2,3,7,8,9-HxCDD	34:54	1.38e4	1.63e4	4.41e3	5.39e3	1.789e3	1.742e3	0.85	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	36:58	3.18e7	7.01e7	6.91e6	1.53e7	2.306e3	8.667e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.66e7	5.91e7	5.28e6	1.15e7	9.605e3	2.431e4	0.45	
1,2,3,4,6,7,8-HpCDF	36:59	3.38e4	3.04e4	7.80e3	5.32e3	1.691e3	1.261e3	1.11	
1,2,3,4,7,8,9-HpCDF	38:35	ND	ND	ND	ND	1.602e3	1.164e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	4.94e7	4.62e7	9.65e6	9.31e6	4.714e4	3.532e4	1.07	
1,2,3,4,6,7,8-HpCDD	38:06	5.61e4	4.79e4	1.19e4	1.29e4	1.381e3	1.711e3	1.17	
Other HpCDD 1	37:17	5.55e4	5.28e4					1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	5.84e4	7.40e4	1.29e4	1.73e4	1.813e3	2.321e3	0.79	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	6.95e7	7.68e7	1.38e7	1.60e7	1.177e3	2.343e3	0.91	
OCDD	40:53	3.05e5	3.65e5	5.63e4	6.89e4	3.391e3	5.718e3	0.84	

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Client Name	PASI Wisconsin		
Client ID	MAK021O	Injected By	SMT
Lab ID	10247063013	Instrument ID	10MSHR05 (F)
Filename	F131107A_12	GC Column ID	USD174324H
Analyzed	11/07/2013 16:37	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK022O	Injected By	SMT
Lab ID	10247063014	Instrument ID	10MSHR05 (F)
Filename	F131107A_13	GC Column ID	USD174324H
Analyzed	11/07/2013 17:22	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:20	6.42e7	8.21e7	8.66e6	1.12e7	1.347e4	5.633e3	0.78	
2,3,7,8-TCDF		18:25	4.36e4	5.15e4	1.52e3	4.76e3	1.082e3	1.019e3	0.85	E
Ethers	1	18:25	4.36e4	5.15e4					0.85	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:32	5.73e7	7.22e7	8.38e6	1.06e7	4.107e3	2.557e3	0.79	
2,3,7,8-TCDD-13C		19:22	5.55e7	7.07e7	6.99e6	9.02e6	7.245e3	7.647e3	0.78	
2,3,7,8-TCDD-37Cl4		19:23	1.33e7		1.70e6		3.386e3	-----		
2,3,7,8-TCDD		19:23	ND	ND	ND	ND	1.846e3	1.586e3		
Other TCDD	1	16:03	6.06e4	9.34e4					0.65	
	2	15:44	1.19e5	1.82e5					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	26:08	7.68e7	4.82e7	6.65e6	4.22e6	1.833e4	2.755e3	1.59	
2,3,4,7,8-PeCDF-13C	28:30	7.41e7	4.79e7	8.10e6	5.08e6	3.828e3	9.360e3	1.55	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	9.700e2	9.368e2		
2,3,4,7,8-PeCDF	28:33	ND	ND	ND	ND	9.700e2	1.070e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:09	6.36e7	4.05e7	7.18e6	4.65e6	8.923e3	3.784e3	1.57	
1,2,3,7,8-PeCDD	29:12	ND	ND	ND	ND	1.312e3	1.784e3		

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	33:21	2.96e7	5.79e7	5.76e6	1.12e7	1.125e3	1.230e3	0.51	
1,2,3,6,7,8-HxCDF-13C	33:30	4.03e7	7.76e7	6.92e6	1.31e7	1.125e3	2.042e3	0.52	
2,3,4,6,7,8-HxCDF-13C	34:16	3.48e7	6.61e7	6.51e6	1.22e7	9.143e2	1.425e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:13	3.14e7	6.02e7	5.73e6	1.11e7	4.995e3	1.670e4	0.52	
1,2,3,4,7,8-HxCDF	33:21	ND	ND	ND	ND	1.463e3	1.411e3		

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Client Name	PASI Wisconsin		
Client ID	MAK022O	Injected By	SMT
Lab ID	10247063014	Instrument ID	10MSHR05 (F)
Filename	F131107A_13	GC Column ID	USD174324H
Analyzed	11/07/2013 17:22	ICAL ID	F131105

1,2,3,6,7,8-HxCDF	33:31	ND	ND	ND	ND	1.470e3	1.411e3		
2,3,4,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.431e3	1.845e3		
1,2,3,7,8,9-HxCDF	35:14	ND	ND	ND	ND	1.281e3	1.390e3		

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	34:28	4.74e7	3.80e7	9.53e6	7.69e6	8.546e3	2.827e3	1.25	
1,2,3,6,7,8-HxCDD-13C	34:34	5.22e7	4.16e7	9.52e6	7.85e6	5.047e3	3.729e3	1.25	
1,2,3,7,8,9-HxCDD-13C	34:54	5.56e7	4.47e7	1.05e7	8.55e6	8.574e3	6.503e3	1.24	
1,2,3,4,7,8-HxCDD	34:29	ND	ND	ND	ND	1.166e3	1.557e3		
1,2,3,6,7,8-HxCDD	34:35	ND	ND	ND	ND	1.166e3	1.557e3		
1,2,3,7,8,9-HxCDD	34:55	ND	ND	ND	ND	1.166e3	1.557e3		

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	36:57	3.01e7	6.76e7	6.59e6	1.47e7	4.055e3	7.183e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:33	2.52e7	5.36e7	4.97e6	1.08e7	3.854e3	7.183e3	0.47	
1,2,3,4,6,7,8-HpCDF	36:59	3.14e4	2.68e4	6.52e3	6.55e3	2.085e3	1.278e3	1.17	
1,2,3,4,7,8,9-HpCDF	38:34	ND	ND	ND	ND	1.826e3	1.409e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	4.68e7	4.42e7	9.01e6	8.71e6	2.906e4	3.179e4	1.06	
1,2,3,4,6,7,8-HpCDD	38:06	5.41e4	5.55e4	9.19e3	1.15e4	1.655e3	1.877e3	0.98	
Other HpCDD 1	37:17	4.99e4	5.59e4					0.89	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	5.88e4	6.83e4	1.40e4	1.75e4	2.071e3	2.502e3	0.86	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	6.29e7	6.99e7	1.30e7	1.48e7	9.072e2	1.218e3	0.90	
OCDD	40:52	2.66e5	3.53e5	4.74e4	7.43e4	3.478e3	5.241e3	0.75	I

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Fax: 612- 607-6444

Client Name	PASI Wisconsin		
Client ID	MAK022O	Injected By	SMT
Lab ID	10247063014	Instrument ID	10MSHR05 (F)
Filename	F131107A_13	GC Column ID	USD174324H
Analyzed	11/07/2013 17:22	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK023O	Injected By	SMT
Lab ID	10247063015	Instrument ID	10MSHR05 (F)
Filename	F131107A_14	GC Column ID	USD174324H
Analyzed	11/07/2013 18:07	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:21	6.35e7	8.11e7	8.38e6	1.09e7	7.594e3	6.079e3	0.78	
2,3,7,8-TCDF		18:25	5.06e4	4.44e4	1.48e4	9.37e3	1.295e3	1.344e3	1.14	I
Other TCDF	1	17:28	3.15e4	4.32e4					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		18:32	6.25e7	7.92e7	9.15e6	1.16e7	4.673e3	3.029e3	0.79	
2,3,7,8-TCDD-13C		19:23	5.44e7	6.94e7	6.87e6	8.68e6	5.024e3	8.687e3	0.78	
2,3,7,8-TCDD-37Cl4		19:24	1.28e7		1.54e6		1.967e3	-----		
2,3,7,8-TCDD		19:24	ND	ND	ND	ND	2.118e3	2.225e3		
Other TCDD	1	16:04	6.26e4	9.55e4					0.65	
	2	15:46	1.36e5	2.11e5					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	26:07	7.27e7	4.82e7	6.45e6	4.16e6	1.685e4	1.285e4	1.51	
2,3,4,7,8-PeCDF-13C	28:31	7.48e7	4.74e7	8.00e6	5.18e6	4.810e3	6.939e4	1.58	
1,2,3,7,8-PeCDF	26:09	ND	ND	ND	ND	1.294e3	9.929e2		
2,3,4,7,8-PeCDF	28:33	ND	ND	ND	ND	1.166e3	1.303e3		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	6.32e7	4.04e7	7.67e6	4.78e6	4.441e3	2.615e3	1.56	
1,2,3,7,8-PeCDD	29:14	ND	ND	ND	ND	1.242e3	1.361e3		

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	33:21	2.96e7	5.68e7	5.58e6	1.07e7	1.657e3	1.512e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	3.83e7	7.45e7	6.16e6	1.20e7	1.657e3	1.324e3	0.51	
2,3,4,6,7,8-HxCDF-13C	34:16	3.32e7	6.29e7	6.20e6	1.20e7	1.575e3	1.807e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:14	2.95e7	5.88e7	5.80e6	1.07e7	4.135e3	1.472e4	0.50	
1,2,3,4,7,8-HxCDF	33:21	ND	ND	ND	ND	1.307e3	1.726e3		
1,2,3,6,7,8-HxCDF	33:32	ND	ND	ND	ND	1.618e3	1.726e3		

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Client Name	PASI Wisconsin		
Client ID	MAK023O	Injected By	SMT
Lab ID	10247063015	Instrument ID	10MSHR05 (F)
Filename	F131107A_14	GC Column ID	USD174324H
Analyzed	11/07/2013 18:07	ICAL ID	F131105

2,3,4,6,7,8-HxCDF		34:18	ND	ND	ND	ND	1.900e3	1.726e3		
1,2,3,7,8,9-HxCDF		35:15	ND	ND	ND	ND	1.900e3	1.726e3		

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		34:28	4.31e7	3.41e7	9.69e6	7.54e6	4.907e3	4.011e3	1.26	
1,2,3,6,7,8-HxCDD-13C		34:35	5.21e7	4.19e7	9.74e6	7.90e6	7.698e2	1.374e3	1.24	
1,2,3,7,8,9-HxCDD-13C		34:54	5.82e7	4.77e7	1.13e7	9.21e6	4.370e3	6.529e3	1.22	
1,2,3,4,7,8-HxCDD		34:29	ND	ND	ND	ND	1.258e3	1.115e3		
1,2,3,6,7,8-HxCDD		34:36	ND	ND	ND	ND	1.234e3	1.046e3		
1,2,3,7,8,9-HxCDD		34:55	ND	ND	ND	ND	1.324e3	1.015e3		

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		36:58	2.76e7	6.25e7	5.96e6	1.33e7	2.065e3	6.362e3	0.44	
1,2,3,4,7,8,9-HpCDF-13C		38:34	2.45e7	5.44e7	4.76e6	1.09e7	4.385e3	8.671e3	0.45	
1,2,3,4,6,7,8-HpCDF		36:58	5.97e4	7.54e4	1.57e4	2.11e4	1.906e3	1.557e3	0.79	I
1,2,3,4,7,8,9-HpCDF		38:35	ND	ND	ND	ND	1.906e3	1.589e3		
Other HpCDF	1	37:26	2.05e5	1.99e5					1.03	

Hepta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C		38:05	4.42e7	4.23e7	8.78e6	8.26e6	1.861e3	2.952e4	1.04	
1,2,3,4,6,7,8-HpCDD		38:06	1.18e5	1.00e5	2.25e4	3.01e4	1.709e3	1.336e3	1.17	
Other HpCDD	1	37:17	1.06e5	1.05e5					1.01	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	3.94e5	4.65e5	7.94e4	1.03e5	2.549e3	3.528e3	0.85	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:52	5.96e7	6.61e7	1.23e7	1.38e7	1.570e3	1.364e3	0.90	
OCDD	40:53	7.56e5	9.50e5	1.72e5	1.98e5	2.301e3	6.439e3	0.80	

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Client Name	PASI Wisconsin		
Client ID	MAK023O	Injected By	SMT
Lab ID	10247063015	Instrument ID	10MSHR05 (F)
Filename	F131107A_14	GC Column ID	USD174324H
Analyzed	11/07/2013 18:07	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK024O	Injected By	SMT
Lab ID	10247063016	Instrument ID	10MSHR05 (F)
Filename	F131107A_15	GC Column ID	USD174324H
Analyzed	11/07/2013 18:52	ICAL ID	F131105

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		18:21	5.55e7	7.04e7	7.77e6	9.82e6	1.170e4	8.165e3	0.79	
2,3,7,8-TCDF		18:22	4.34e4	4.77e4	1.33e3	2.54e3	1.255e3	1.185e3	0.91	I
Other TCDF	1	17:28	2.62e4	3.53e4					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		18:31	5.70e7	7.34e7	8.06e6	1.03e7	4.787e3	2.397e3	0.78	
2,3,7,8-TCDD-13C		19:23	4.88e7	6.25e7	6.05e6	7.85e6	5.928e3	8.714e3	0.78	
2,3,7,8-TCDD-37Cl4		19:23	1.13e7		1.49e6		1.538e3	-----		
2,3,7,8-TCDD		19:24	ND	ND	ND	ND	1.494e3	1.393e3		
Other TCDD	1	15:47	1.16e5	1.31e5					0.89	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:08	6.81e7	4.41e7	6.14e6	3.87e6	1.141e4	2.896e3	1.54	
2,3,4,7,8-PeCDF-13C	28:31	6.75e7	4.23e7	7.24e6	4.60e6	8.247e3	5.740e3	1.60	
1,2,3,7,8-PeCDF	26:10	ND	ND	ND	ND	1.049e3	1.083e3		
2,3,4,7,8-PeCDF	28:33	ND	ND	ND	ND	7.990e2	8.138e2		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:11	5.73e7	3.74e7	6.95e6	4.38e6	9.928e3	1.942e3	1.53	
1,2,3,7,8-PeCDD	29:14	ND	ND	ND	ND	1.223e3	1.137e3		

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	33:21	2.83e7	5.47e7	5.15e6	1.00e7	1.154e3	5.836e3	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	3.57e7	6.80e7	6.26e6	1.18e7	1.831e4	3.413e4	0.53	
2,3,4,6,7,8-HxCDF-13C	34:16	3.10e7	5.91e7	5.98e6	1.12e7	1.154e3	1.274e3	0.53	
1,2,3,7,8,9-HxCDF-13C	35:13	2.79e7	5.52e7	5.32e6	1.02e7	5.086e3	1.688e4	0.51	
1,2,3,4,7,8-HxCDF	33:21	ND	ND	ND	ND	1.316e3	1.483e3		
1,2,3,6,7,8-HxCDF	33:31	ND	ND	ND	ND	1.225e3	1.483e3		
2,3,4,6,7,8-HxCDF	34:18	ND	ND	ND	ND	1.516e3	1.483e3		

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Client Name	PASI Wisconsin		
Client ID	MAK024O	Injected By	SMT
Lab ID	10247063016	Instrument ID	10MSHR05 (F)
Filename	F131107A_15	GC Column ID	USD174324H
Analyzed	11/07/2013 18:52	ICAL ID	F131105

1,2,3,7,8,9-HxCDF		35:14	ND	ND	ND	ND	1.265e3	1.101e3		

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		34:28	4.10e7	3.38e7	8.99e6	7.11e6	5.487e3	2.763e3	1.21	
1,2,3,6,7,8-HxCDD-13C		34:35	4.70e7	3.84e7	8.98e6	7.30e6	3.209e3	2.763e3	1.22	
1,2,3,7,8,9-HxCDD-13C		34:54	5.51e7	4.43e7	1.08e7	8.93e6	2.459e3	4.433e3	1.24	
1,2,3,4,7,8-HxCDD		34:29	ND	ND	ND	ND	1.408e3	1.033e3		
1,2,3,6,7,8-HxCDD		34:35	1.68e4	1.86e4	5.81e3	5.55e3	1.484e3	1.033e3	0.90	I
1,2,3,7,8,9-HxCDD		34:55	ND	ND	ND	ND	1.645e3	1.553e3		
Other HxCDD	1	33:19	4.45e4	3.70e4					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	36:57	2.82e7	6.13e7	6.10e6	1.35e7	5.832e3	1.304e4	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.17e7	5.01e7	4.45e6	9.97e6	5.832e3	1.304e4	0.43	
1,2,3,4,6,7,8-HpCDF	36:58	2.73e4	3.59e4	6.27e3	6.75e3	1.700e3	1.304e3	0.76	I
1,2,3,4,7,8,9-HpCDF	38:35	ND	ND	ND	ND	1.700e3	1.408e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	4.20e7	3.80e7	8.59e6	7.59e6	5.634e3	2.168e4	1.10	
1,2,3,4,6,7,8-HpCDD	38:06	2.03e5	2.15e5	4.89e4	4.17e4	2.412e3	2.784e3	0.94	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	6.31e4	7.95e4	1.33e4	1.53e4	2.184e3	1.963e3	0.79	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	5.85e7	6.37e7	1.24e7	1.29e7	1.756e3	2.440e2	0.92	
OCDD	40:51	5.29e5	5.69e5	1.02e5	1.18e5	2.786e3	5.963e3	0.93	

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Appendix E

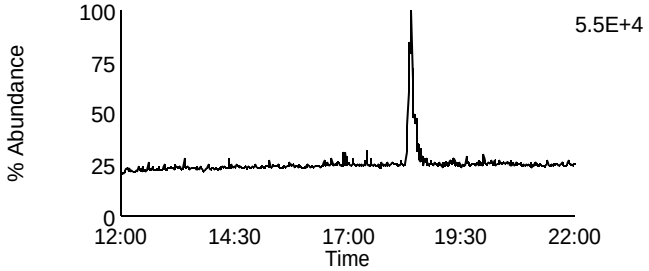
Calibration Raw Data

Homologue Group: Tetras

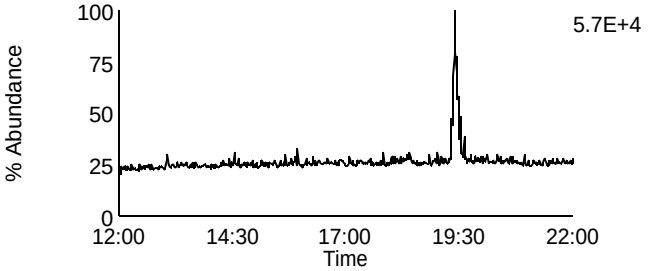
Data File Name: F131105A_04
Date Acquired: 11/5/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

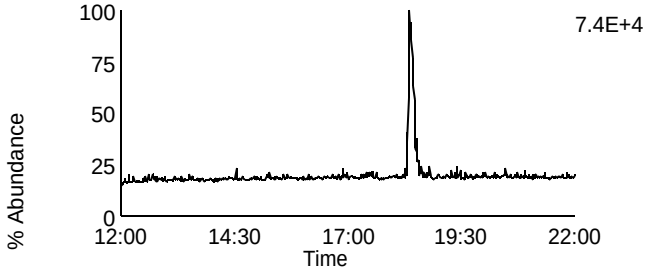
Data File: F131105A_04 G1 C1 - 303.9016
CAL CS1-7604-273 - SMT



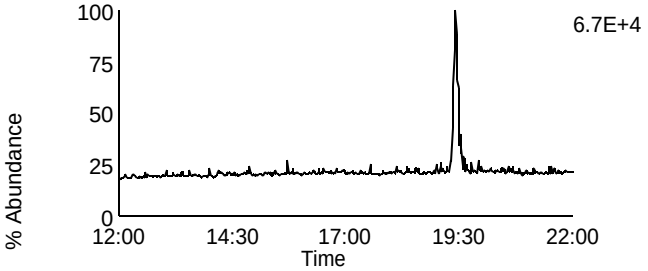
Data File: F131105A_04 G1 C7 - 319.8965
CAL CS1-7604-273 - SMT



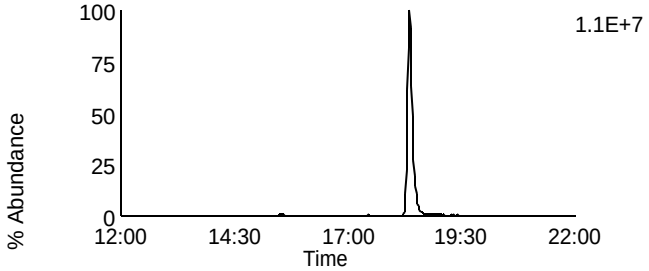
Data File: F131105A_04 G1 C2 - 305.8987
CAL CS1-7604-273 - SMT



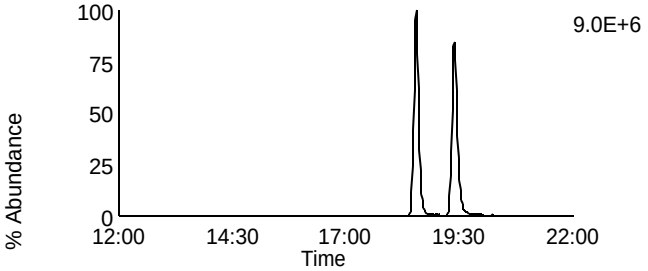
Data File: F131105A_04 G1 C8 - 321.8936
CAL CS1-7604-273 - SMT



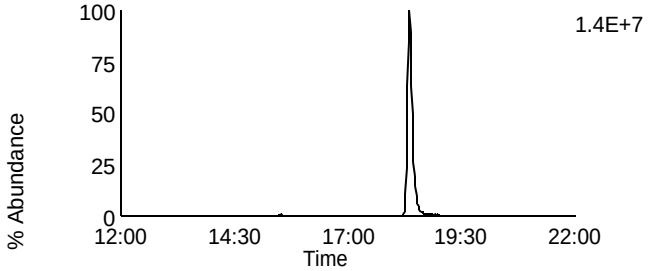
Data File: F131105A_04 G1 C3 - 315.9418
CAL CS1-7604-273 - SMT



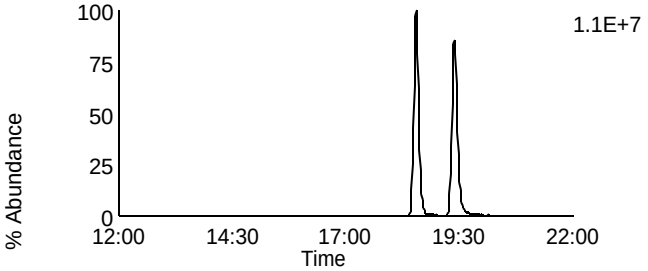
Data File: F131105A_04 G1 C10 - 331.9367
CAL CS1-7604-273 - SMT



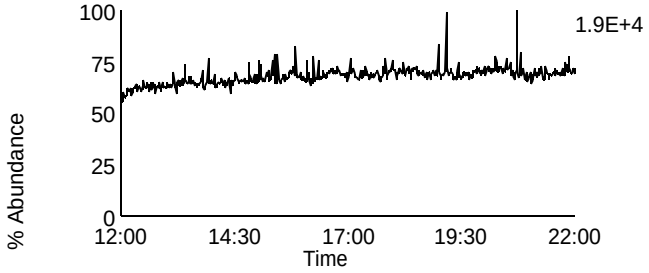
Data File: F131105A_04 G1 C4 - 317.9389
CAL CS1-7604-273 - SMT



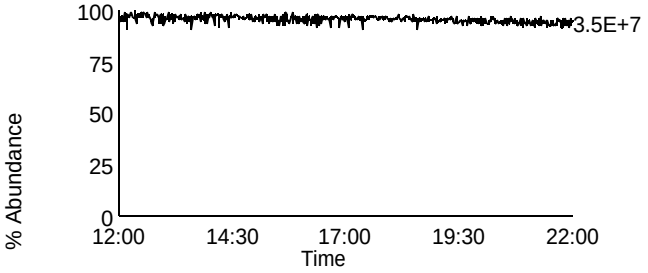
Data File: F131105A_04 G1 C11 - 333.9338
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G1 C14 - 375.8364
CAL CS1-7604-273 - SMT



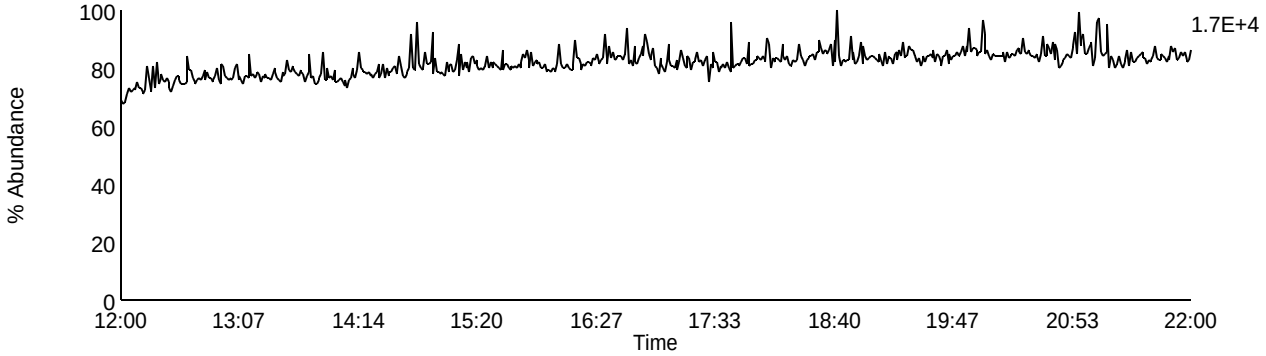
Data File: F131105A_04 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT



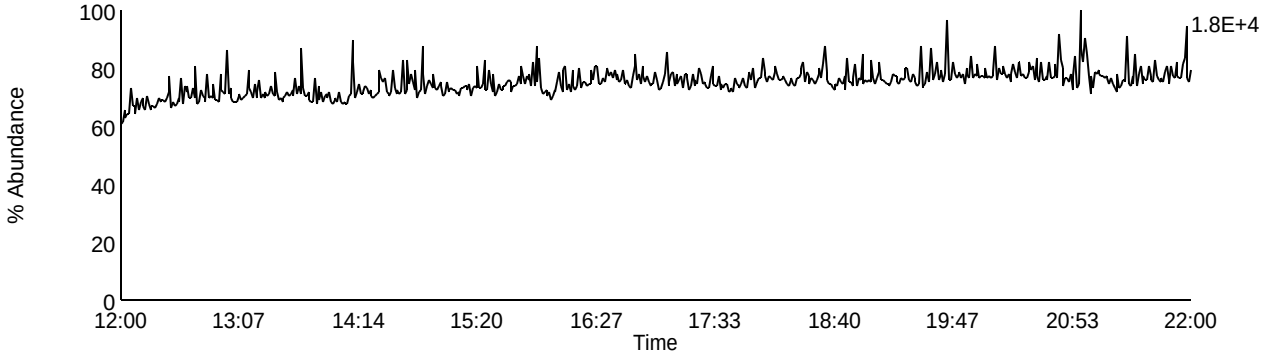
Homologue Group: Penta & Cleanup

Data File Name: F131105A_04	Lab Sample ID: CS1-7604-273
Date Acquired: 11/5/2013	Client Sample ID:
Sample Description: CAL CS1-7604-273 - SMT	Instrument: 10MSHR05 (F)

Data File: F131105A_04 G1 C12 - 339.8597
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G1 C13 - 341.8567
CAL CS1-7604-273 - SMT



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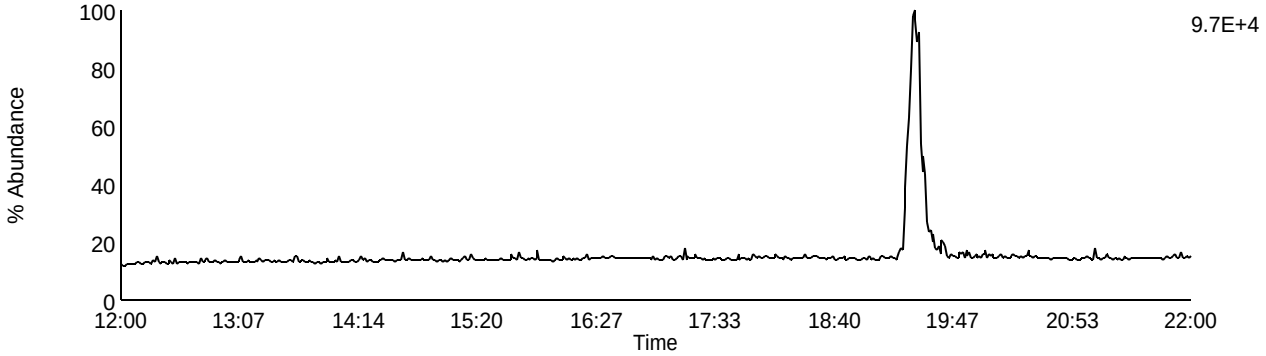
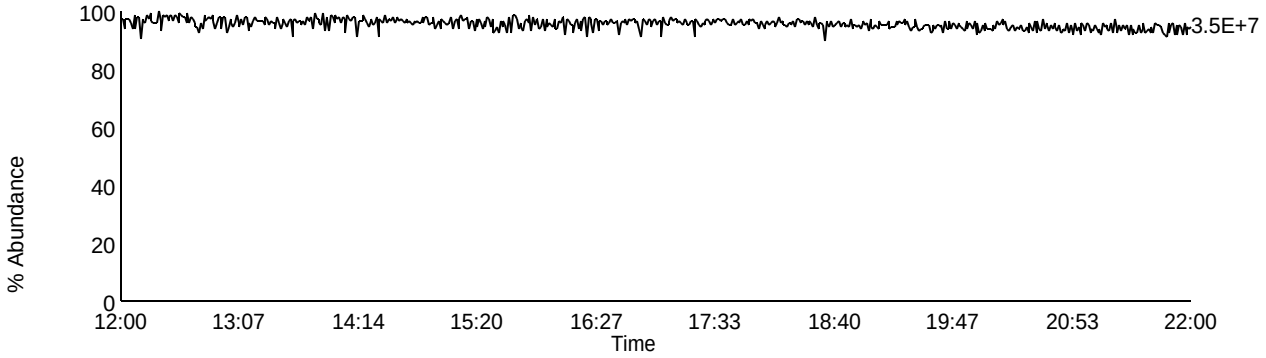
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT

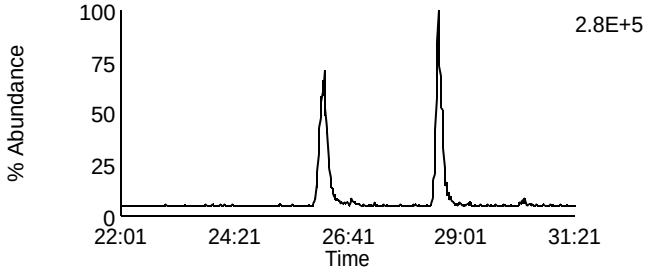


Homologue Group: Pentas

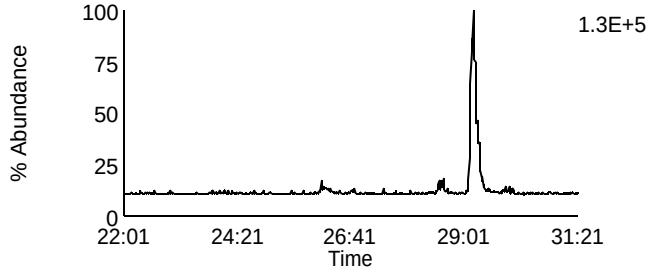
Data File Name: F131105A_04
Date Acquired: 11/5/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

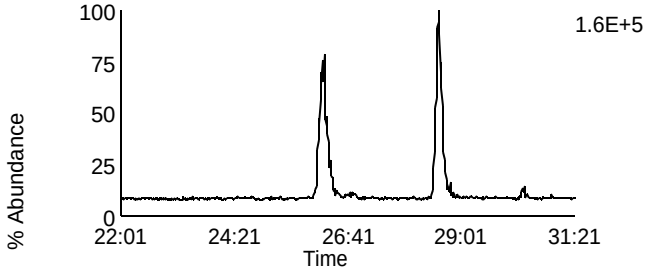
Data File: F131105A_04 G2 C1 - 339.8597
CAL CS1-7604-273 - SMT



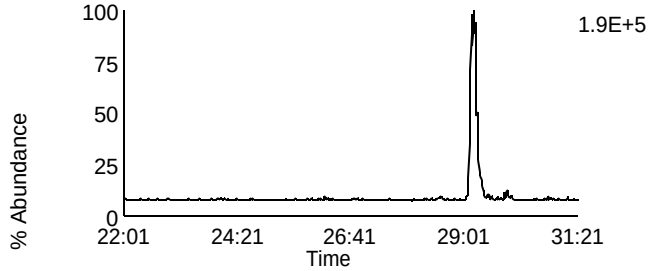
Data File: F131105A_04 G2 C4 - 353.8576
CAL CS1-7604-273 - SMT



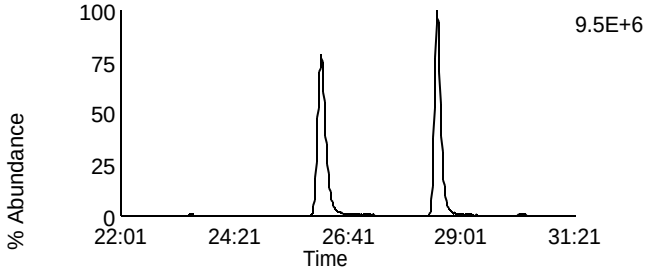
Data File: F131105A_04 G2 C2 - 341.8567
CAL CS1-7604-273 - SMT



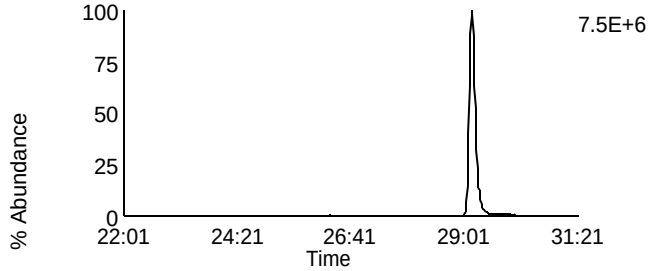
Data File: F131105A_04 G2 C8 - 355.8546
CAL CS1-7604-273 - SMT



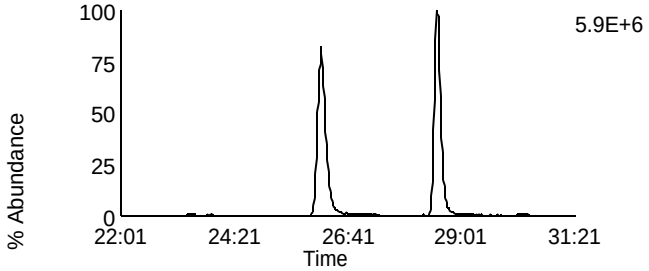
Data File: F131105A_04 G2 C3 - 351.8999
CAL CS1-7604-273 - SMT



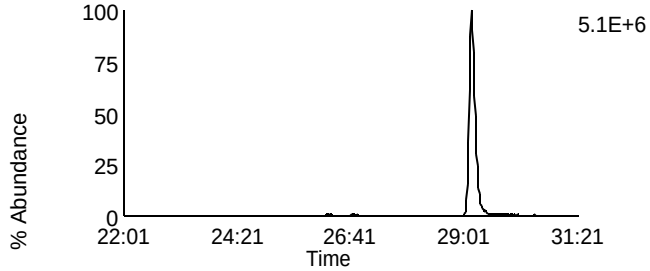
Data File: F131105A_04 G2 C10 - 367.8948
CAL CS1-7604-273 - SMT



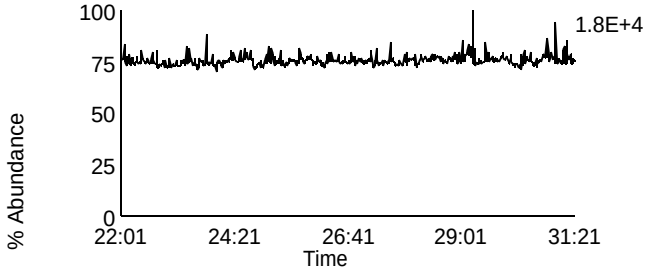
Data File: F131105A_04 G2 C5 - 353.8969
CAL CS1-7604-273 - SMT



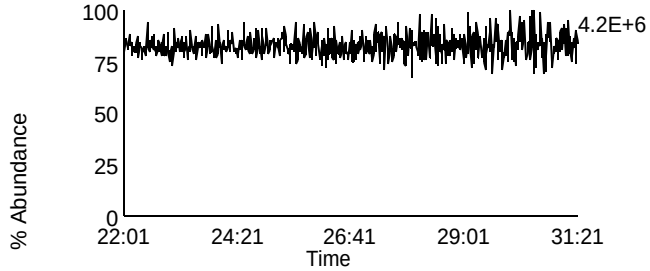
Data File: F131105A_04 G2 C11 - 369.8918
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G2 C12 - 409.7974
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G2 C6 - 354.9792
CAL CS1-7604-273 - SMT

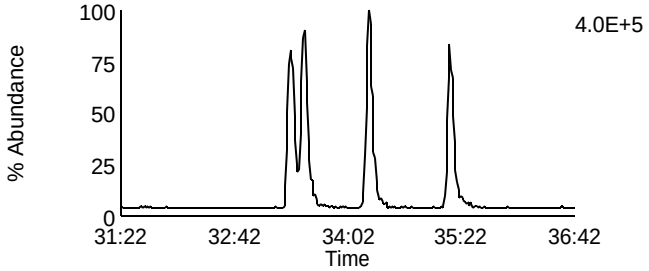


Homologue Group: Hexas

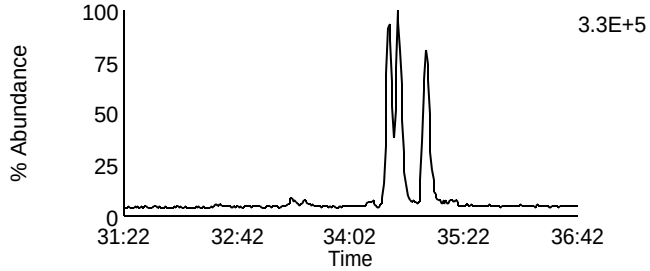
Data File Name: F131105A_04
Date Acquired: 11/5/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

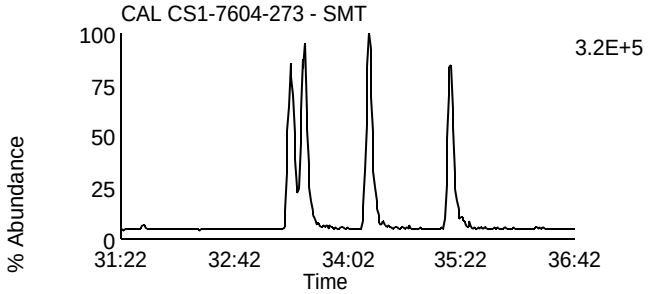
Data File: F131105A_04 G3 C1 - 373.8207
CAL CS1-7604-273 - SMT



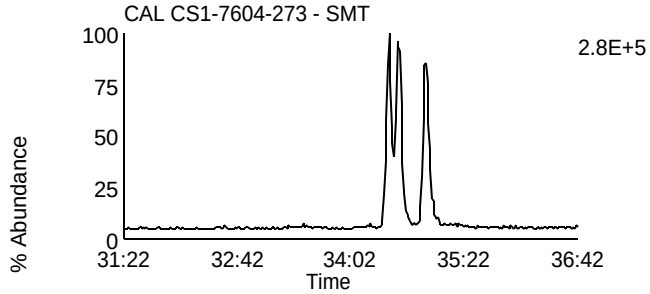
Data File: F131105A_04 G3 C7 - 389.8156
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G3 C2 - 375.8178
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G3 C8 - 391.8127
CAL CS1-7604-273 - SMT



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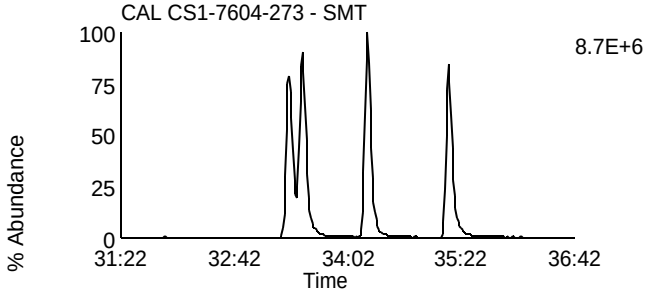
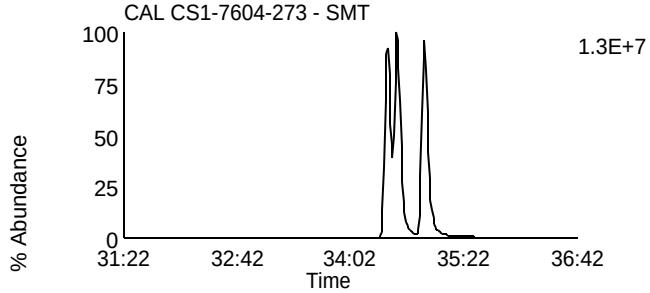
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G3 C9 - 401.8559
CAL CS1-7604-273 - SMT



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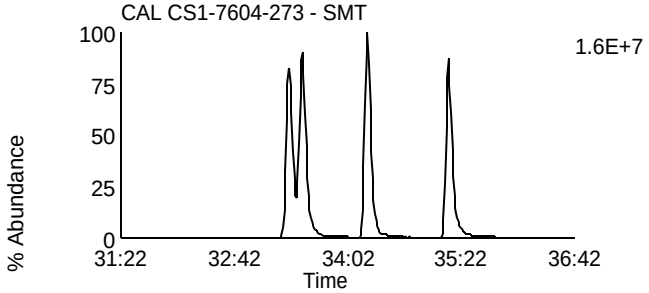
CAL CS1-7604-273 - SMT



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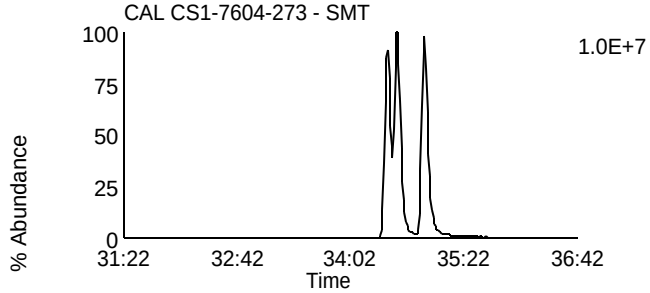
CAL CS1-7604-273 - SMT



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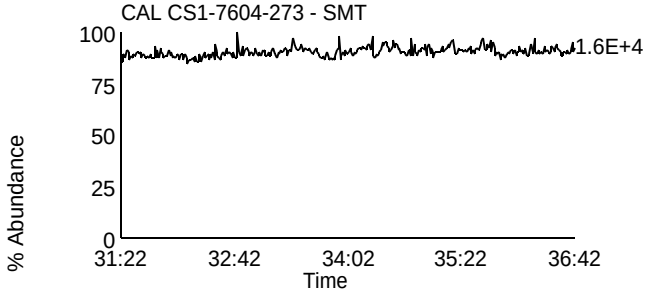
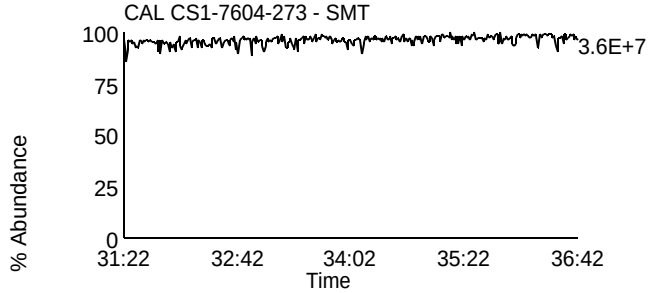
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G3 C3 - 380.976
CAL CS1-7604-273 - SMT

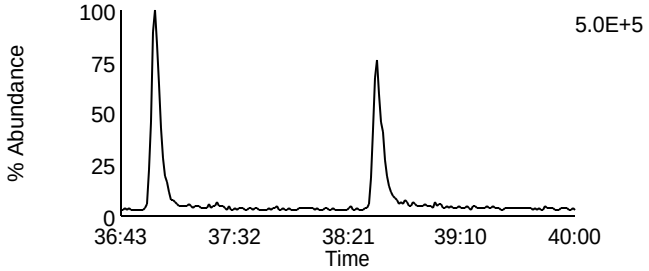


Homologue Group: Heptas

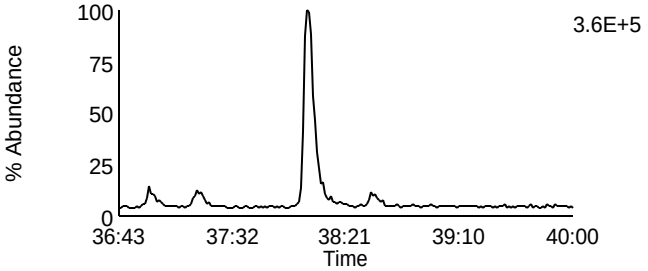
Data File Name: F131105A_04
Date Acquired: 11/5/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

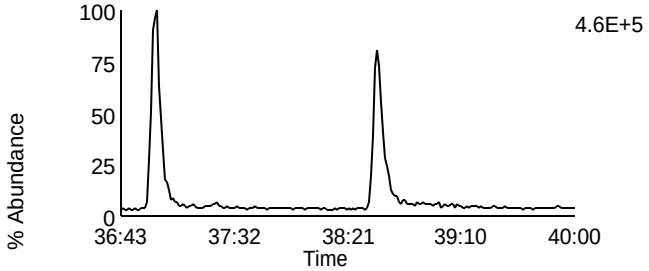
Data File: F131105A_04 G4 C3 - 407.7818
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G4 C8 - 423.7767
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G4 C4 - 409.7788
CAL CS1-7604-273 - SMT



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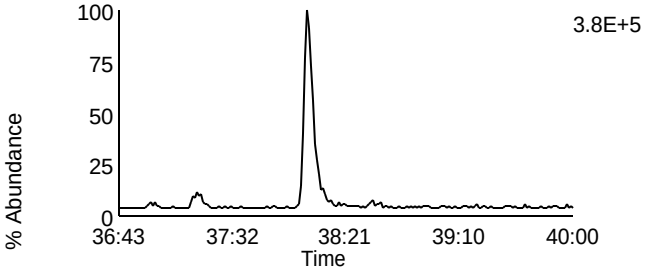
CAL CS1-7604-273 - SMT



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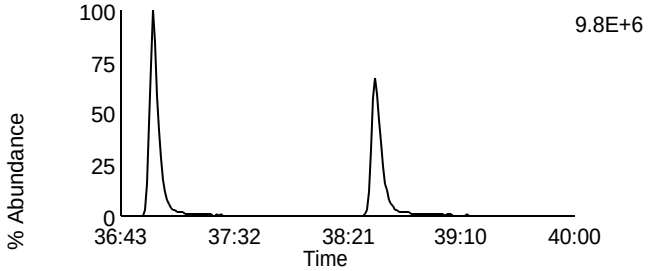
CAL CS1-7604-273 - SMT



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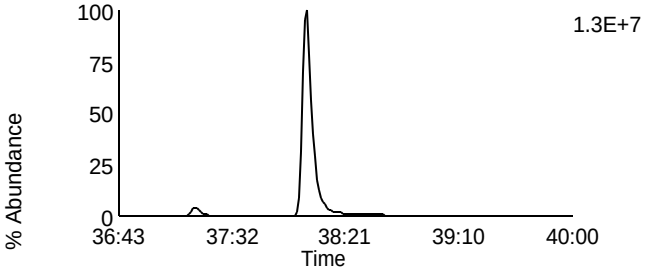
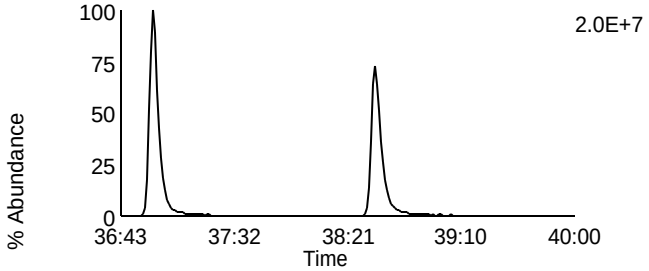
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G4 C7 - 419.822
CAL CS1-7604-273 - SMT



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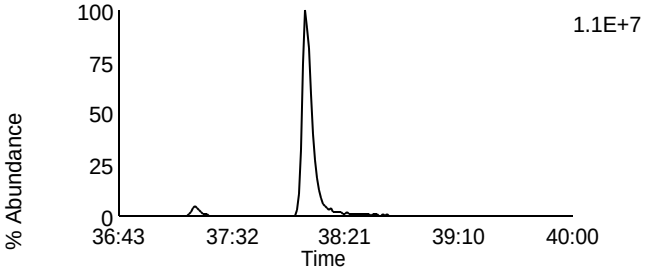
CAL CS1-7604-273 - SMT



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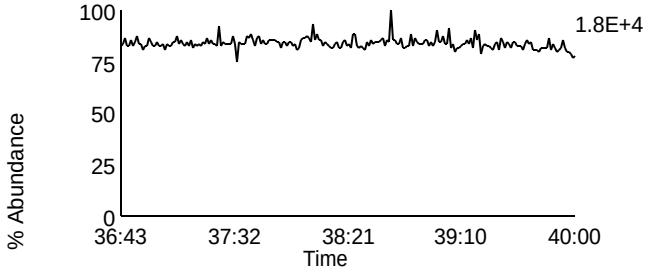
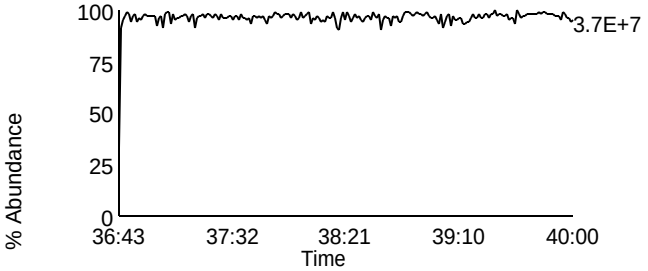
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G4 C1 - 380.976
CAL CS1-7604-273 - SMT

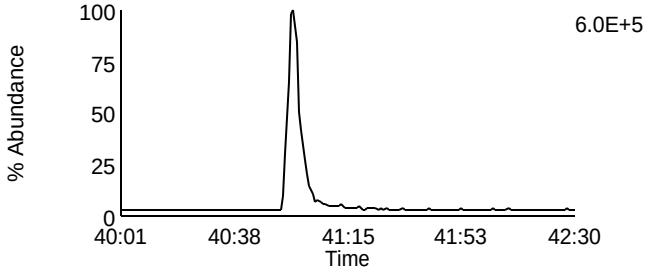


Homologue Group: Octas

Data File Name: F131105A_04
Date Acquired: 11/5/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131105A_04 G5 C4 - 441.7428
CAL CS1-7604-273 - SMT



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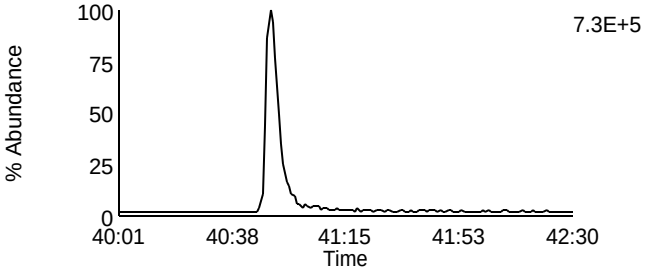
CAL CS1-7604-273 - SMT



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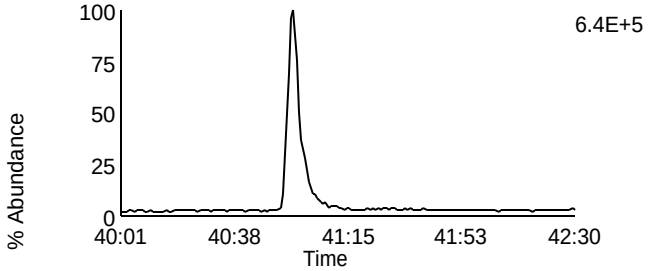
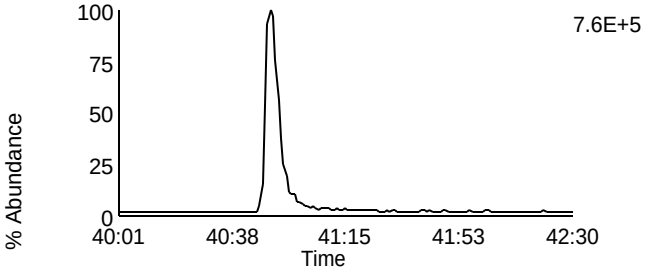
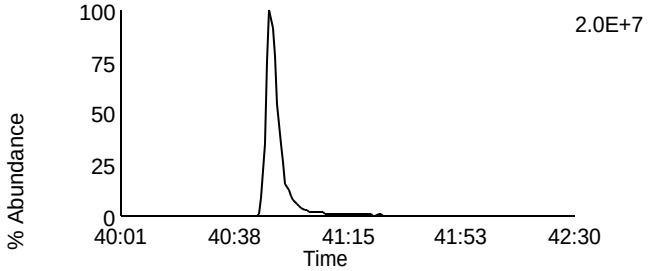
CAL CS1-7604-273 - SMT



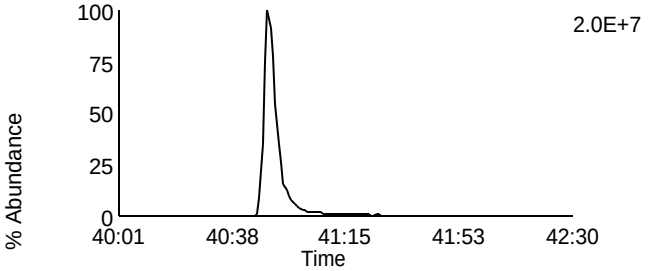
Data File: F131105A_04 G5 C9 - 459.7347
CAL CS1-7604-273 - SMT



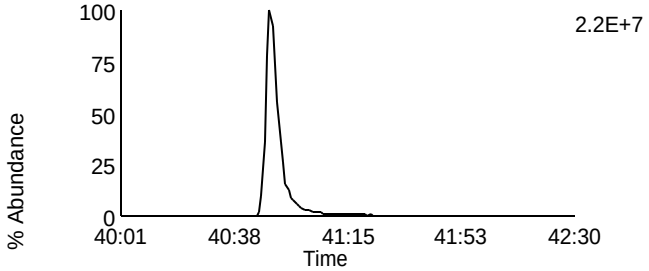
Data File: F131105A_04 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



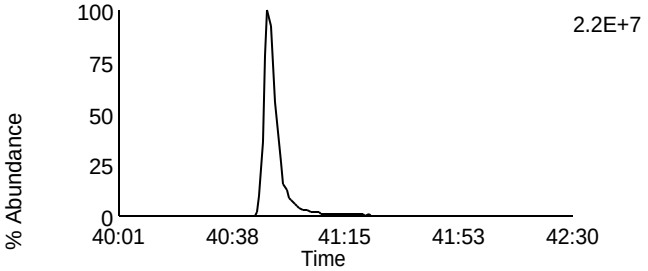
Data File: F131105A_04 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



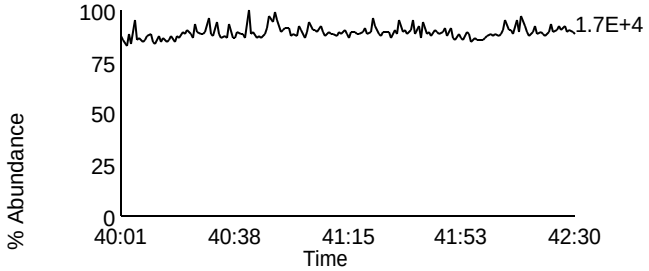
Data File: F131105A_04 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



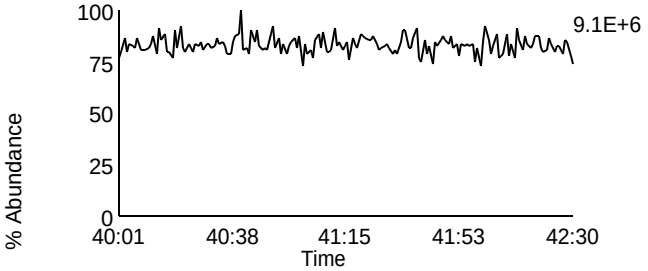
Data File: F131105A_04 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G5 C13 - 513.6775
CAL CS1-7604-273 - SMT



Data File: F131105A_04 G5 C2 - 430.9728
CAL CS1-7604-273 - SMT

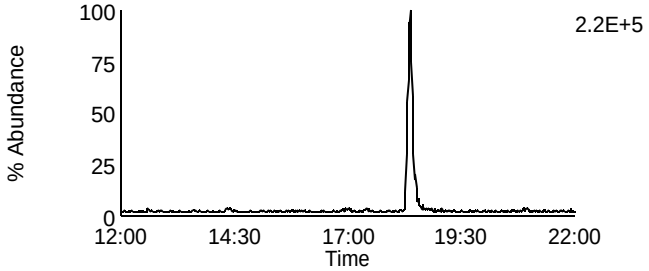


Homologue Group: Tetras

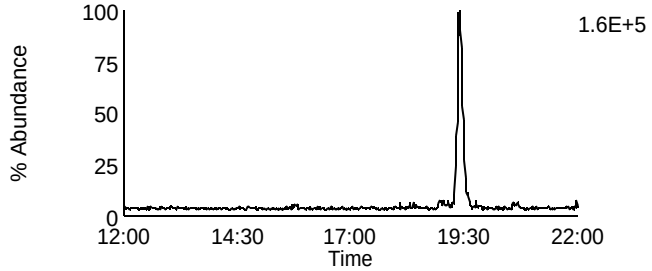
Data File Name: F131105A_03
Date Acquired: 11/5/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

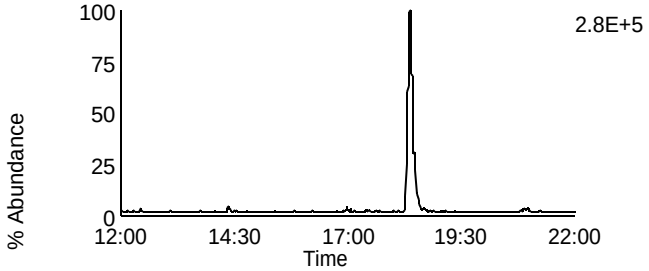
Data File: F131105A_03 G1 C1 - 303.9016
CAL CS2-7604-276 - SMT



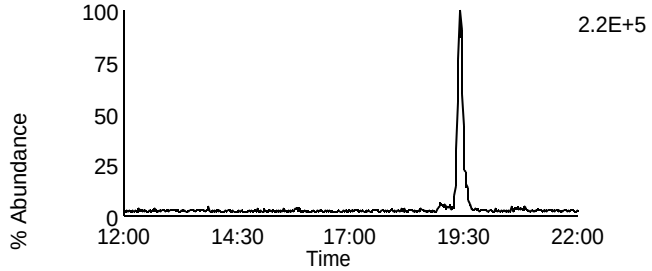
Data File: F131105A_03 G1 C7 - 319.8965
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G1 C2 - 305.8987
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G1 C8 - 321.8936
CAL CS2-7604-276 - SMT



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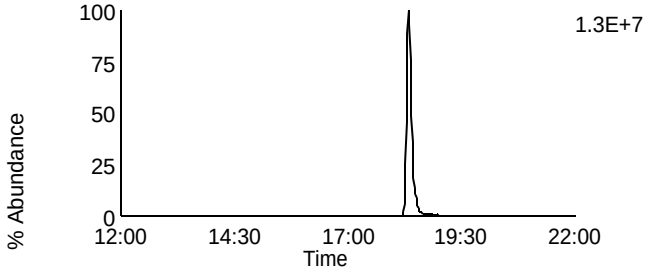
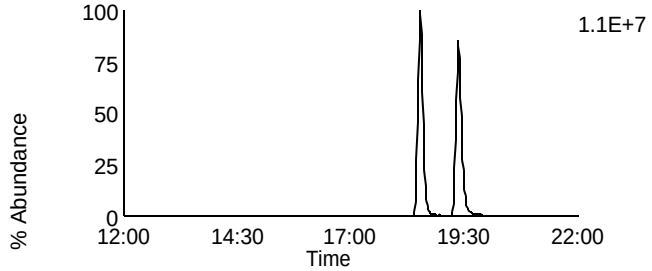
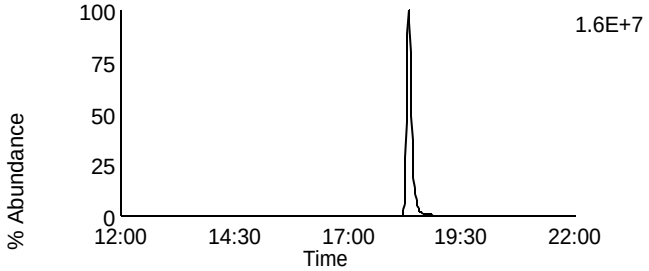
CAL CS2-7604-276 - SMT



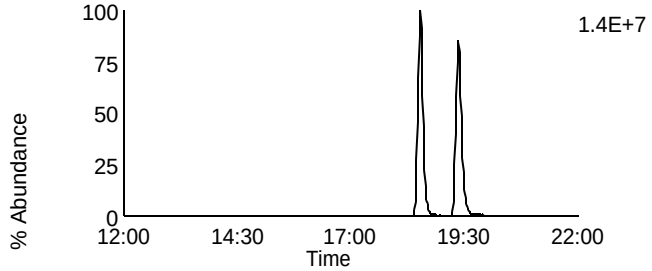
Data File: F131105A_03 G1 C10 - 331.9367
CAL CS2-7604-276 - SMT



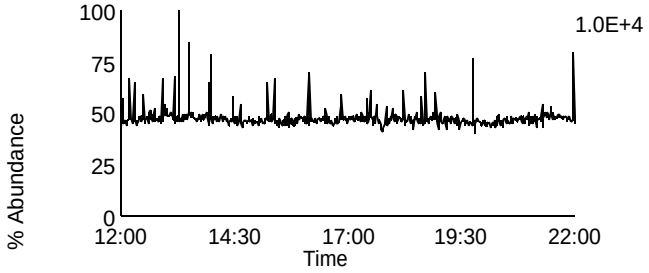
Data File: F131105A_03 G1 C4 - 317.9389
CAL CS2-7604-276 - SMT



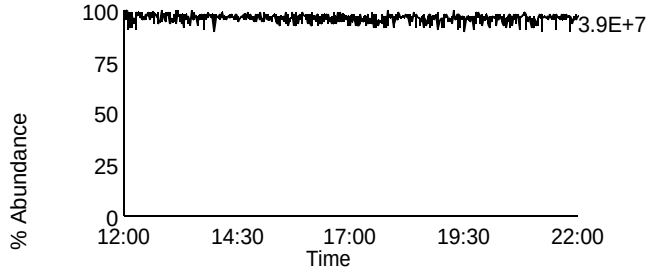
Data File: F131105A_03 G1 C11 - 333.9338
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G1 C14 - 375.8364
CAL CS2-7604-276 - SMT



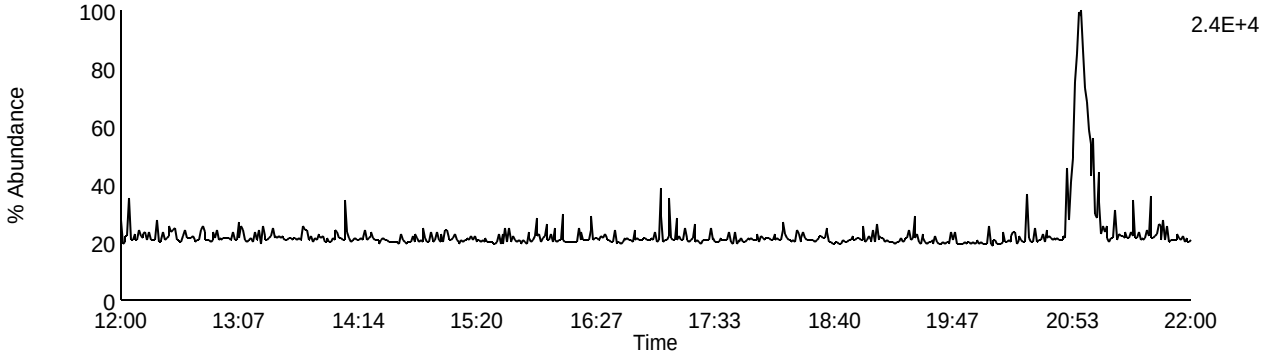
Data File: F131105A_03 G1 C5 - 318.9792
CAL CS2-7604-276 - SMT



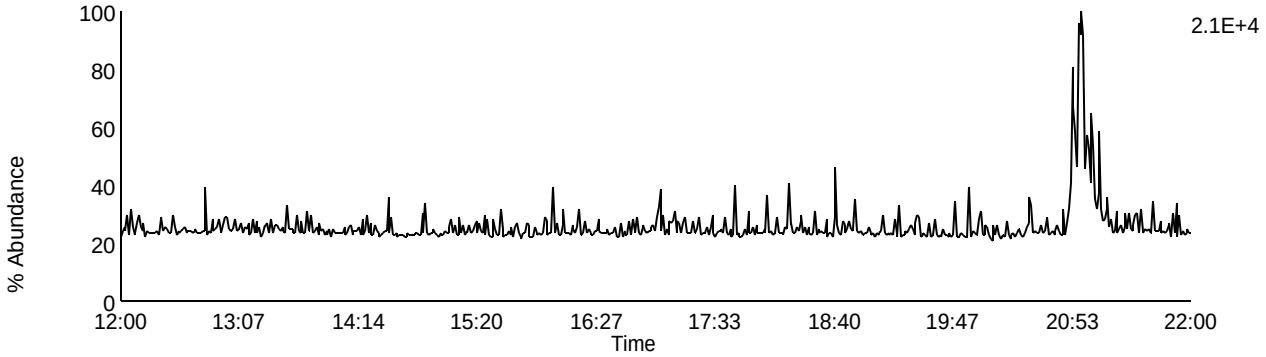
Homologue Group: Penta & Cleanup

Data File Name: F131105A_03	Lab Sample ID: CS2-7604-276
Date Acquired: 11/5/2013	Client Sample ID:
Sample Description: CAL CS2-7604-276 - SMT	Instrument: 10MSHR05 (F)

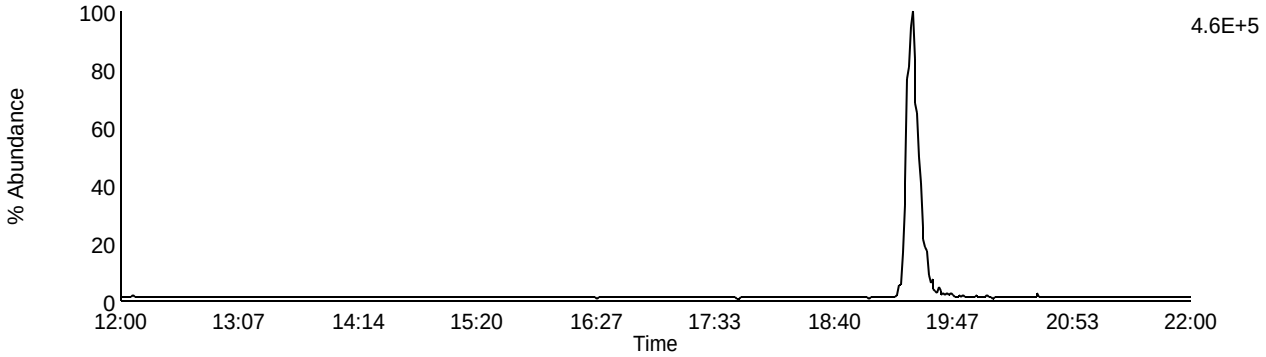
Data File: F131105A_03 G1 C12 - 339.8597
CAL CS2-7604-276 - SMT



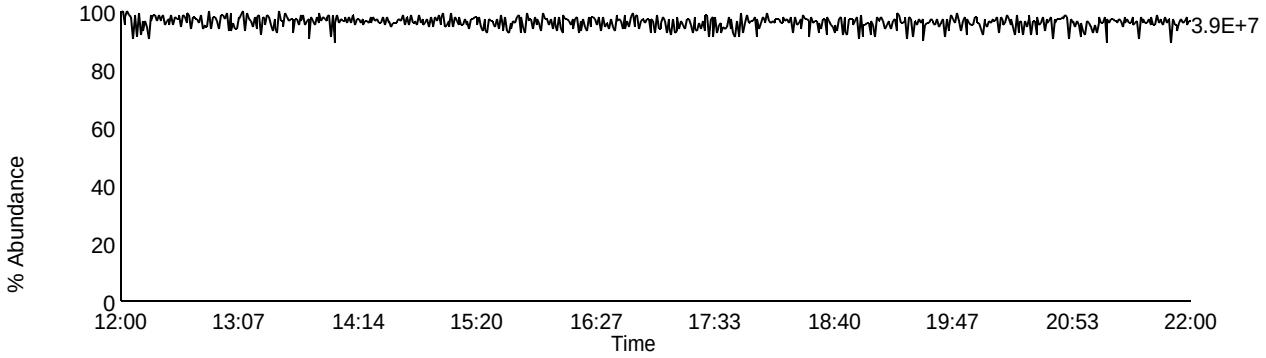
Data File: F131105A_03 G1 C13 - 341.8567
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G1 C9 - 327.8847
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G1 C5 - 318.9792
CAL CS2-7604-276 - SMT

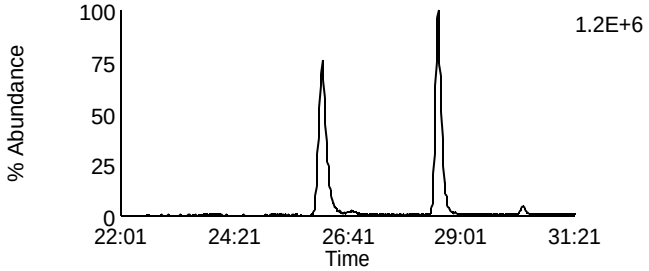


Homologue Group: Pentas

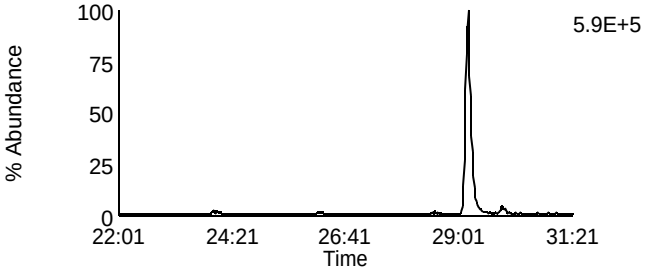
Data File Name: F131105A_03
Date Acquired: 11/5/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

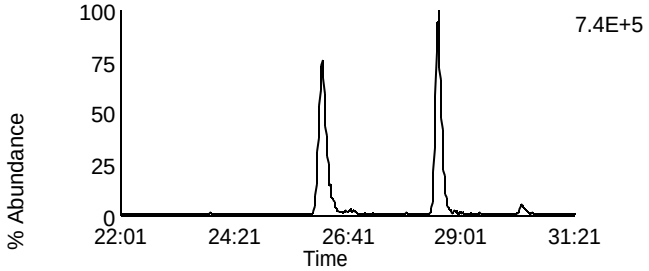
Data File: F131105A_03 G2 C1 - 339.8597
CAL CS2-7604-276 - SMT



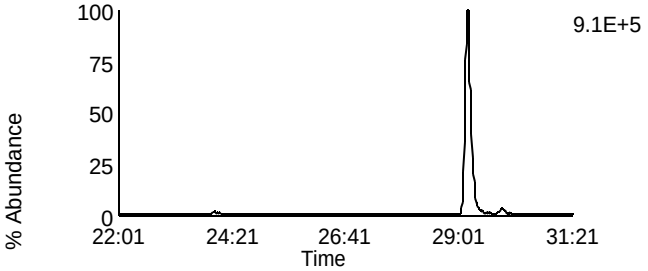
Data File: F131105A_03 G2 C4 - 353.8576
CAL CS2-7604-276 - SMT



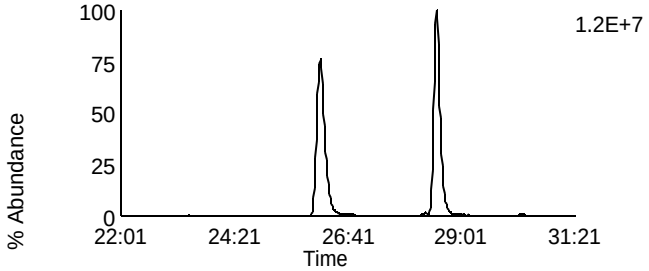
Data File: F131105A_03 G2 C2 - 341.8567
CAL CS2-7604-276 - SMT



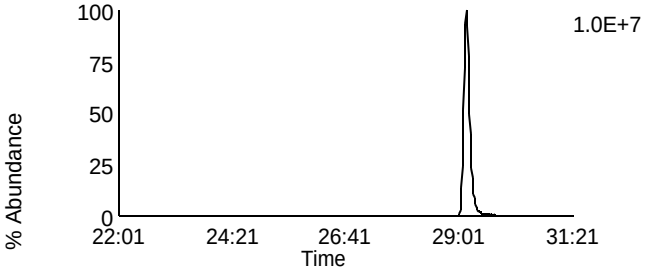
Data File: F131105A_03 G2 C8 - 355.8546
CAL CS2-7604-276 - SMT



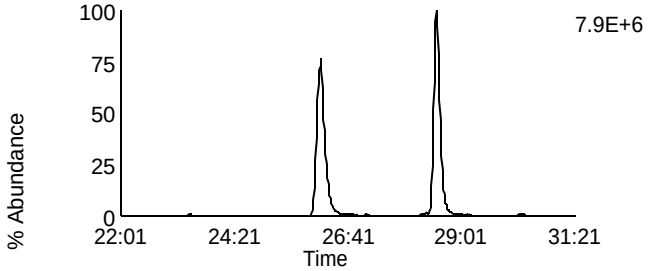
Data File: F131105A_03 G2 C3 - 351.8999
CAL CS2-7604-276 - SMT



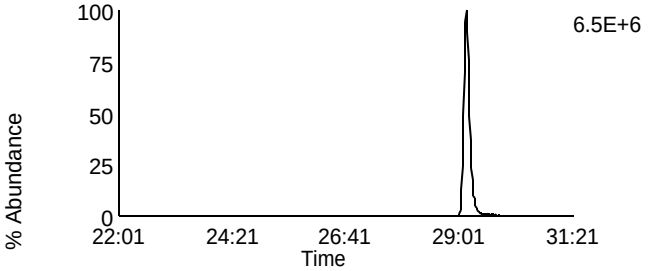
Data File: F131105A_03 G2 C10 - 367.8948
CAL CS2-7604-276 - SMT



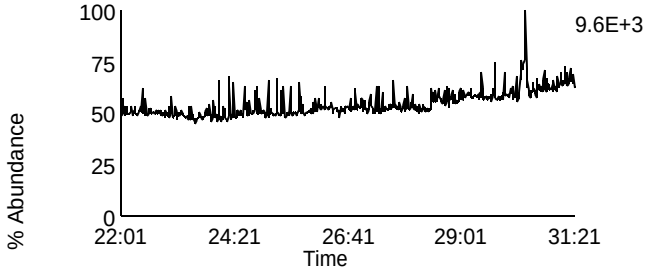
Data File: F131105A_03 G2 C5 - 353.8969
CAL CS2-7604-276 - SMT



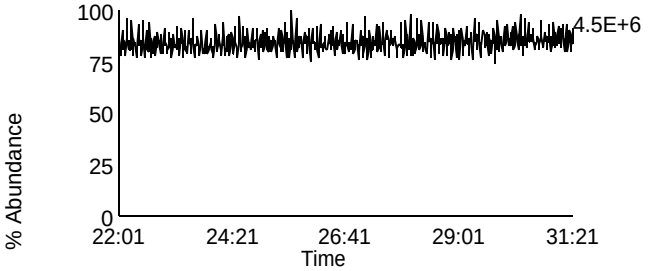
Data File: F131105A_03 G2 C11 - 369.8918
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G2 C12 - 409.7974
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G2 C6 - 354.9792
CAL CS2-7604-276 - SMT

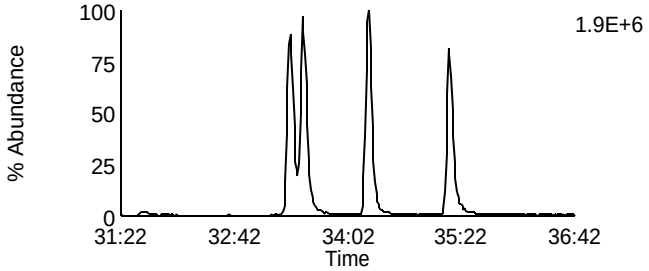


Homologue Group: Hexas

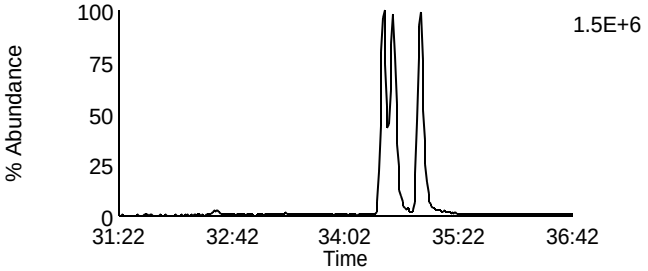
Data File Name: F131105A_03
Date Acquired: 11/5/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

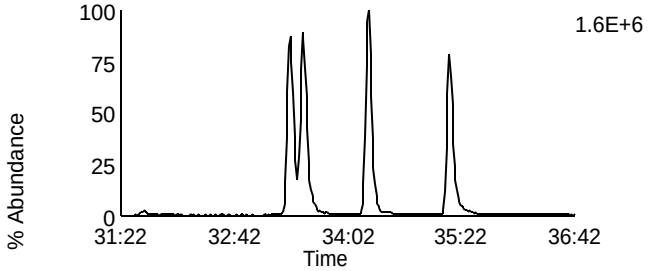
Data File: F131105A_03 G3 C1 - 373.8207
CAL CS2-7604-276 - SMT



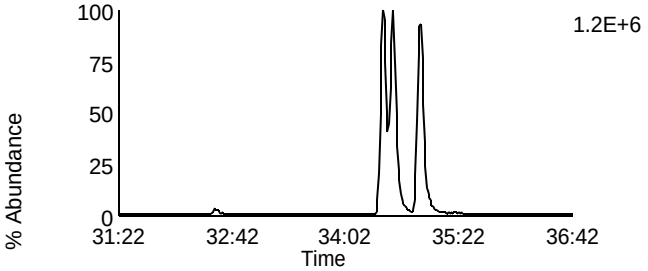
Data File: F131105A_03 G3 C7 - 389.8156
CAL CS2-7604-276 - SMT



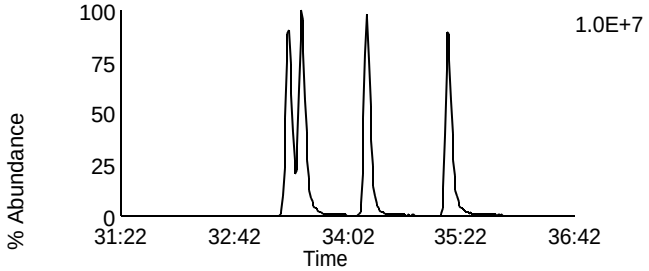
Data File: F131105A_03 G3 C2 - 375.8178
CAL CS2-7604-276 - SMT



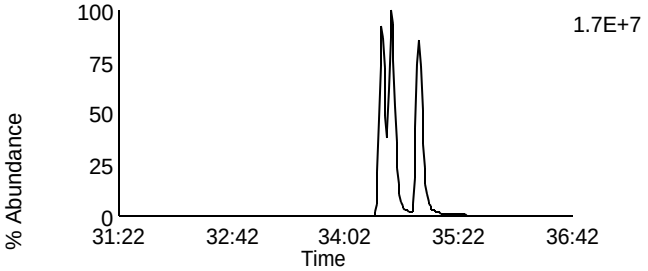
Data File: F131105A_03 G3 C8 - 391.8127
CAL CS2-7604-276 - SMT



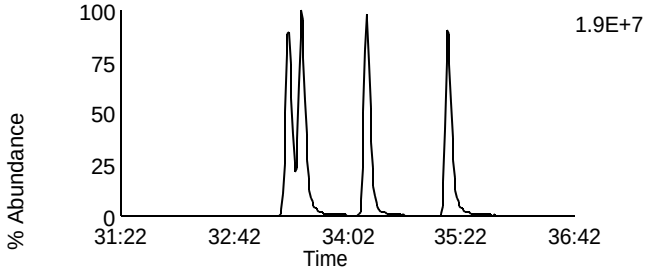
Data File: F131105A_03 G3 C5 - 383.8639
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G3 C9 - 401.8559
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G3 C6 - 385.861
CAL CS2-7604-276 - SMT



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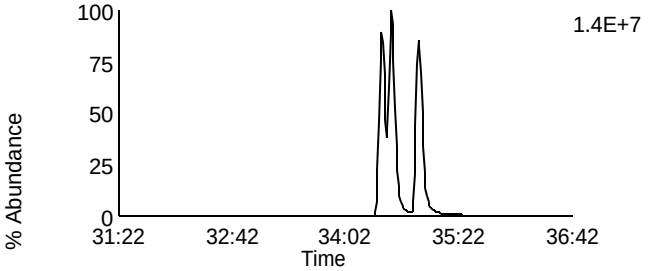
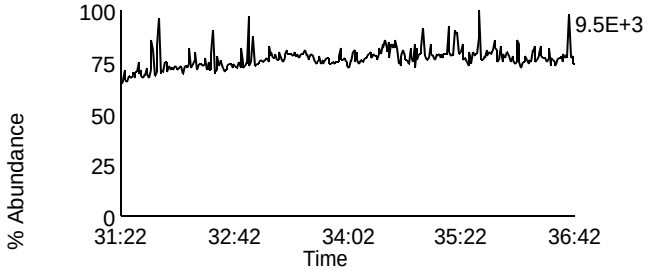
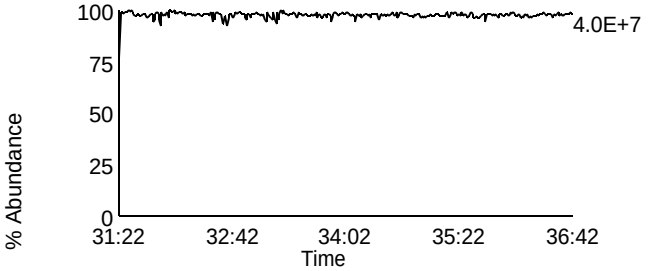
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G3 C11 - 445.7555
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G3 C3 - 380.976
CAL CS2-7604-276 - SMT

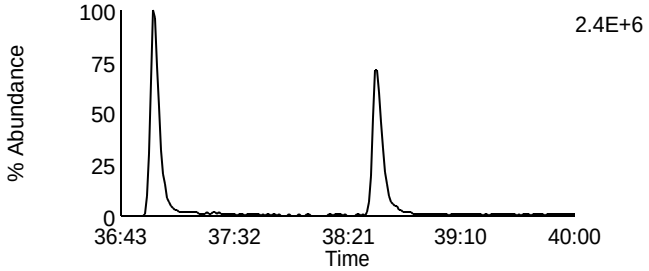


Homologue Group: Heptas

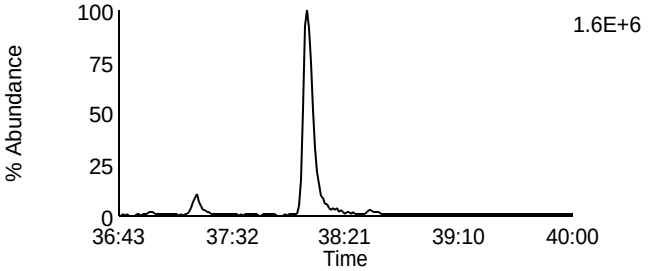
Data File Name: F131105A_03
Date Acquired: 11/5/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

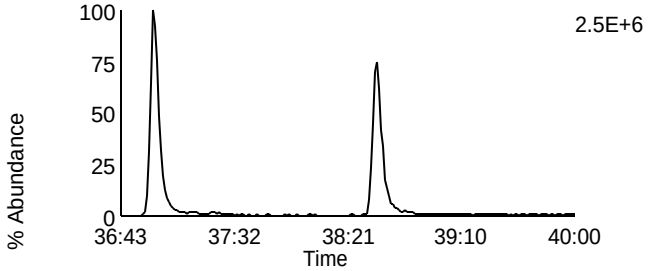
Data File: F131105A_03 G4 C3 - 407.7818
CAL CS2-7604-276 - SMT



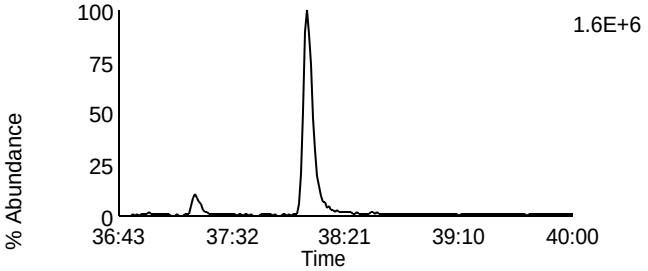
Data File: F131105A_03 G4 C8 - 423.7767
CAL CS2-7604-276 - SMT



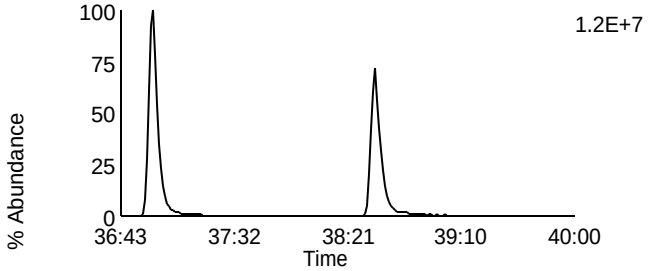
Data File: F131105A_03 G4 C4 - 409.7788
CAL CS2-7604-276 - SMT



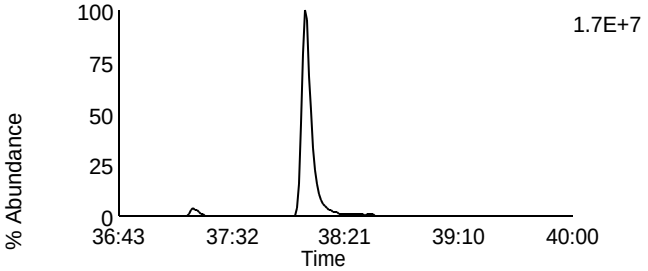
Data File: F131105A_03 G4 C9 - 425.7737
CAL CS2-7604-276 - SMT



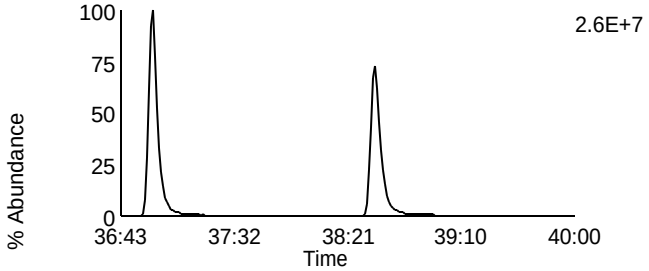
Data File: F131105A_03 G4 C6 - 417.825
CAL CS2-7604-276 - SMT



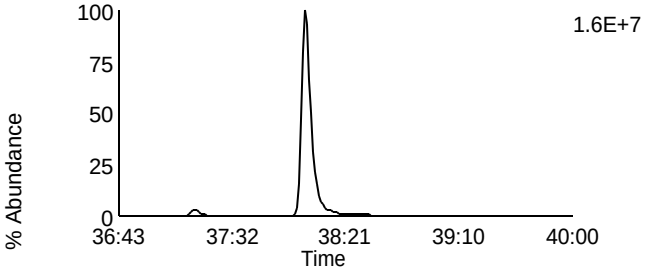
Data File: F131105A_03 G4 C11 - 435.8169
CAL CS2-7604-276 - SMT



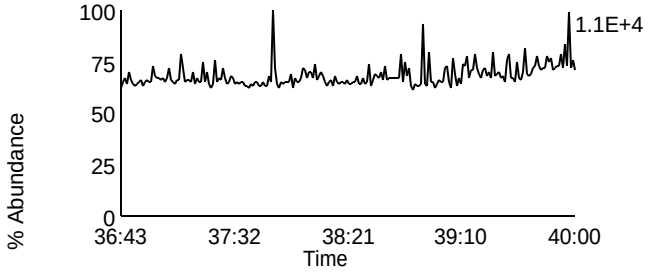
Data File: F131105A_03 G4 C7 - 419.822
CAL CS2-7604-276 - SMT



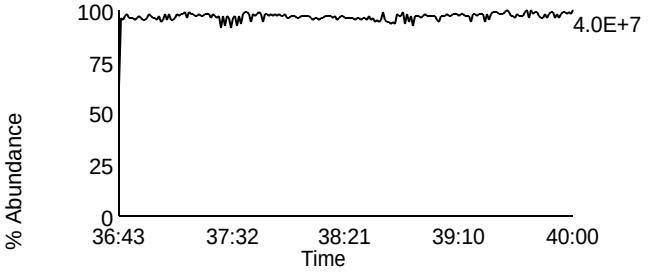
Data File: F131105A_03 G4 C12 - 437.814
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G4 C13 - 479.7165
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G4 C1 - 380.976
CAL CS2-7604-276 - SMT

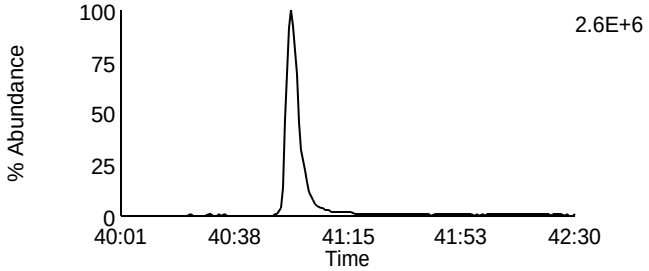


Homologue Group: Octas

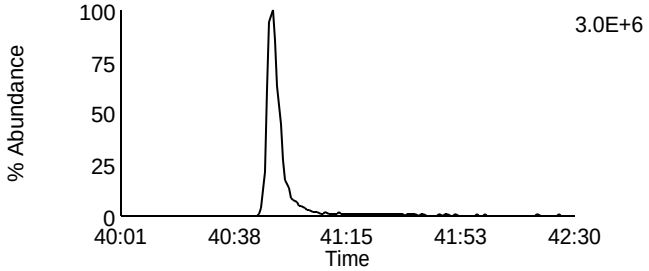
Data File Name: F131105A_03
Date Acquired: 11/5/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR05 (F)

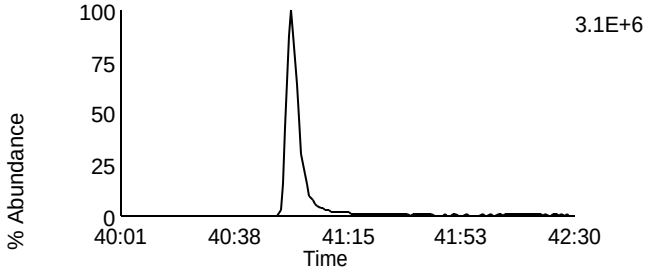
Data File: F131105A_03 G5 C4 - 441.7428
CAL CS2-7604-276 - SMT



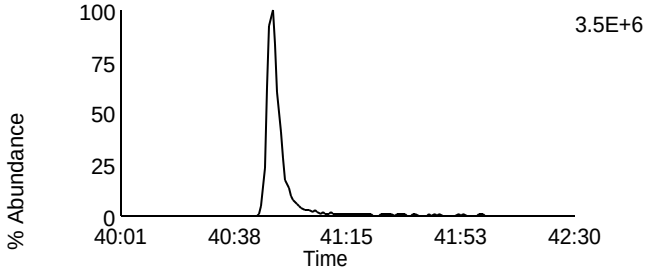
Data File: F131105A_03 G5 C8 - 457.7377
CAL CS2-7604-276 - SMT



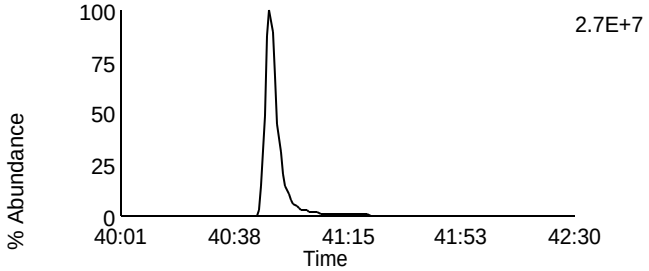
Data File: F131105A_03 G5 C5 - 443.7398
CAL CS2-7604-276 - SMT



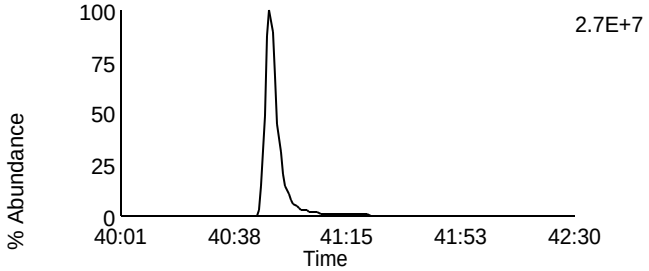
Data File: F131105A_03 G5 C9 - 459.7347
CAL CS2-7604-276 - SMT



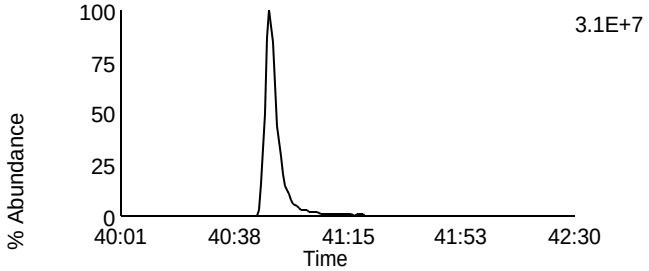
Data File: F131105A_03 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



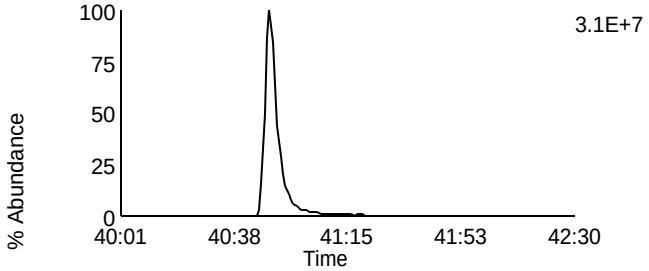
Data File: F131105A_03 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



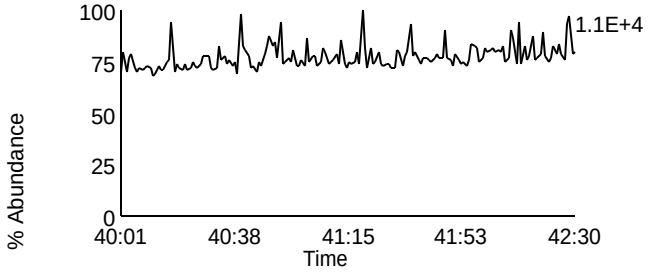
Data File: F131105A_03 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



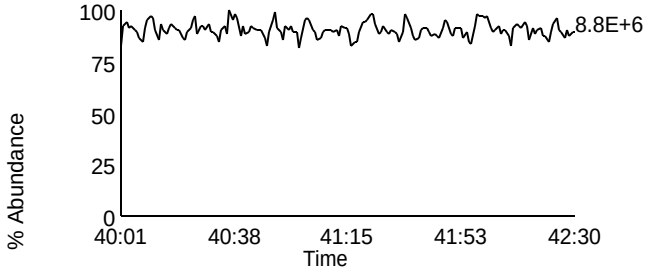
Data File: F131105A_03 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G5 C13 - 513.6775
CAL CS2-7604-276 - SMT



Data File: F131105A_03 G5 C2 - 430.9728
CAL CS2-7604-276 - SMT

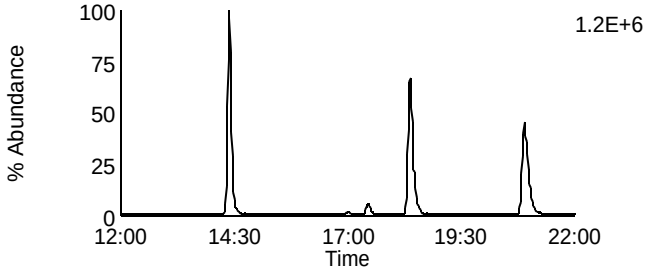


Homologue Group: Tetras

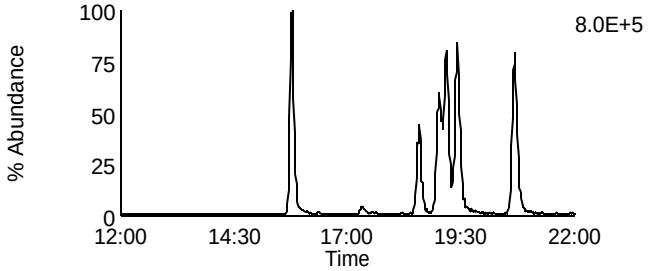
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

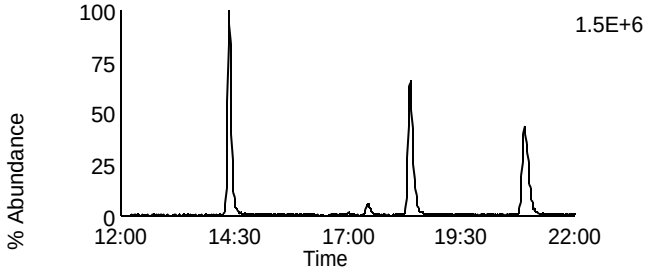
Data File: F131105A_02 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT



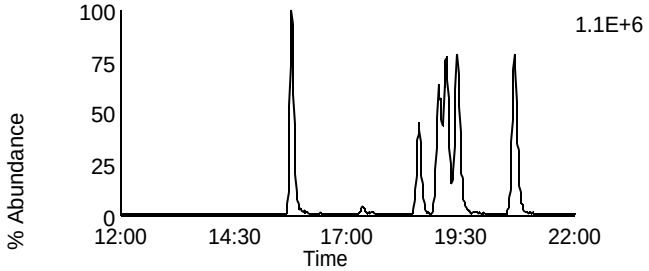
Data File: F131105A_02 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT



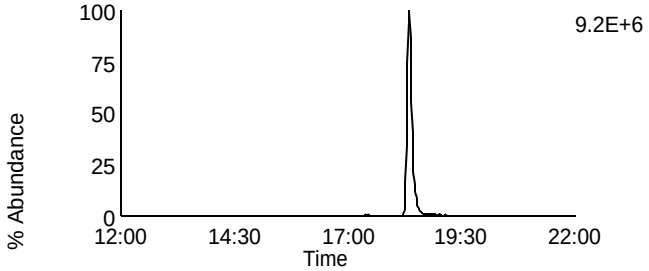
Data File: F131105A_02 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT



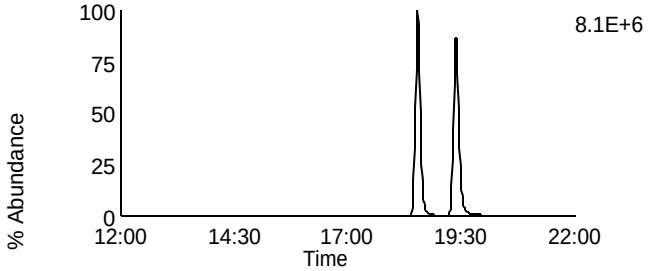
Data File: F131105A_02 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT



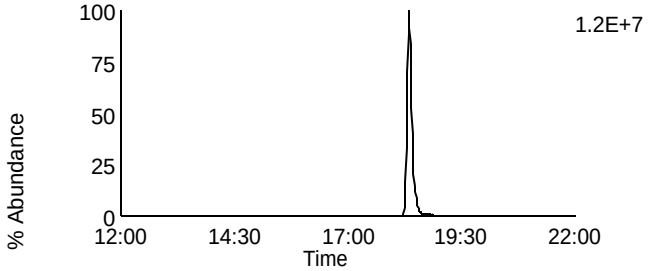
Data File: F131105A_02 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT



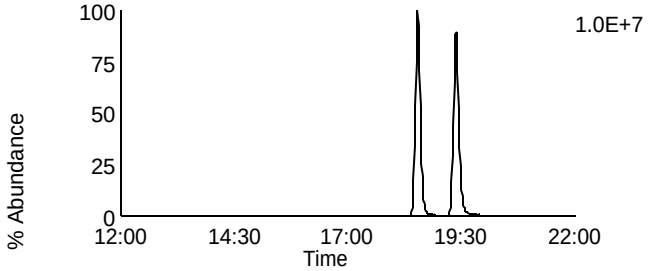
Data File: F131105A_02 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT



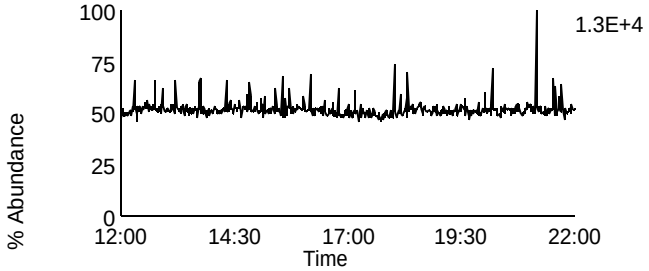
Data File: F131105A_02 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT



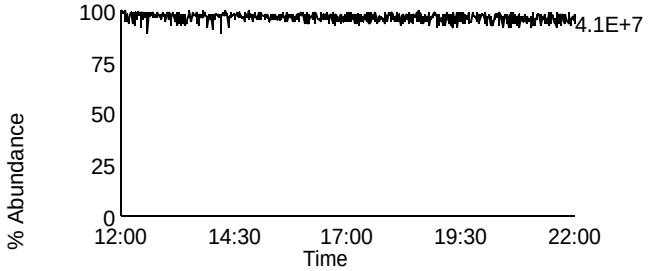
Data File: F131105A_02 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT



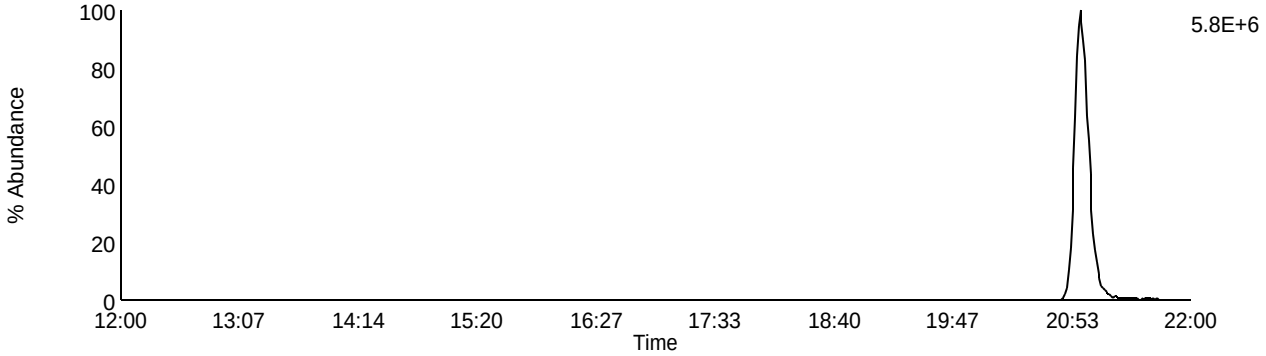
Data File: F131105A_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT



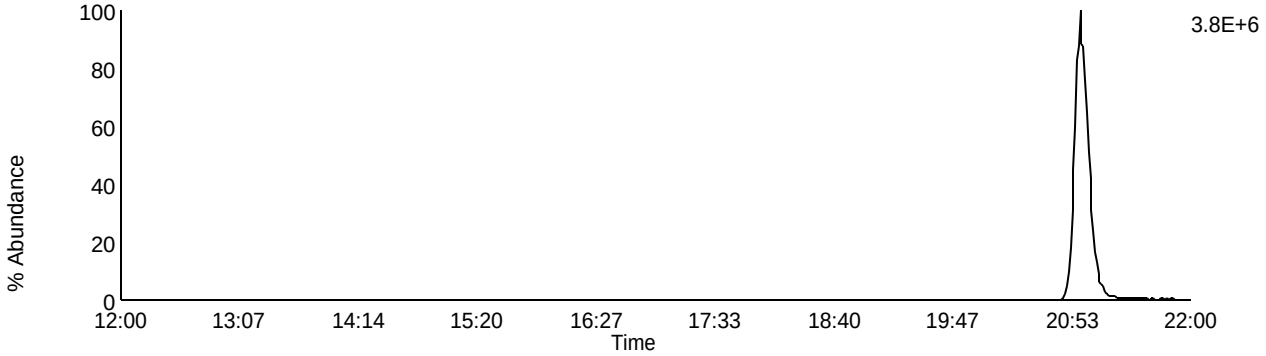
Homologue Group: Penta & Cleanup

Data File Name: F131105A_02	Lab Sample ID: CS3/CPM-7604-286
Date Acquired: 11/5/2013	Client Sample ID:
Sample Description: CAL CS3/CPM-7604-286 - SMT	Instrument: 10MSHR05 (F)

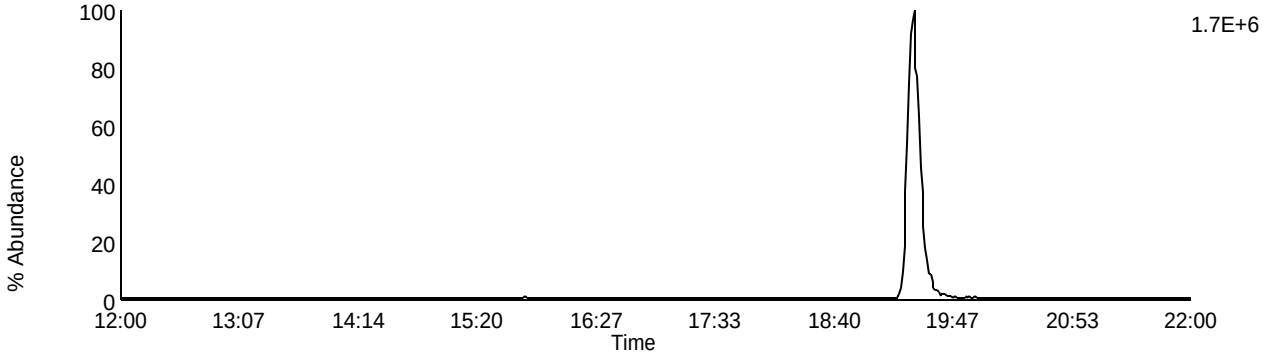
Data File: F131105A_02 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT



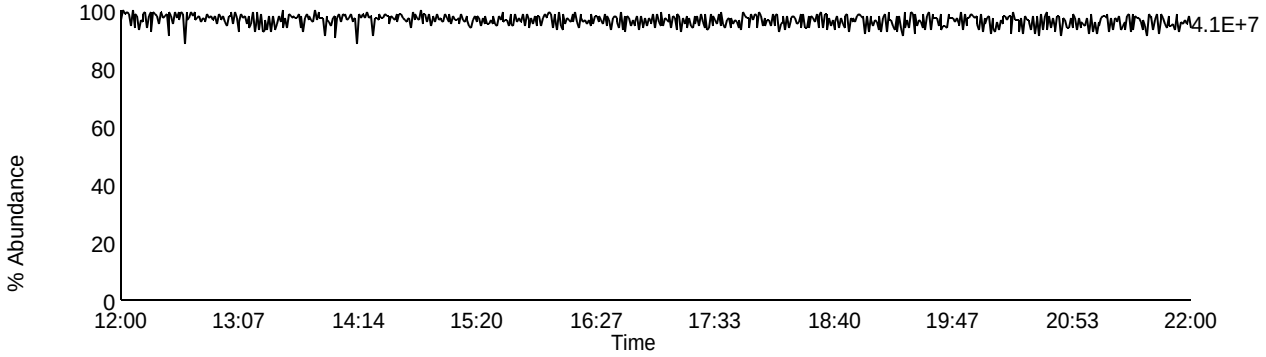
Data File: F131105A_02 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

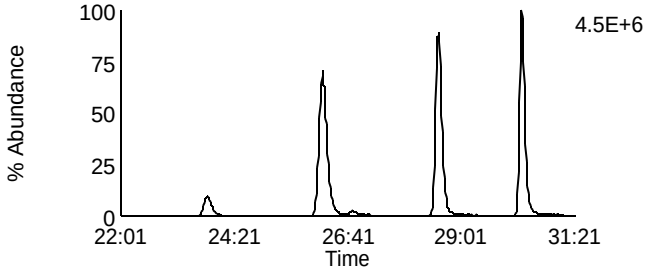


Homologue Group: Pentas

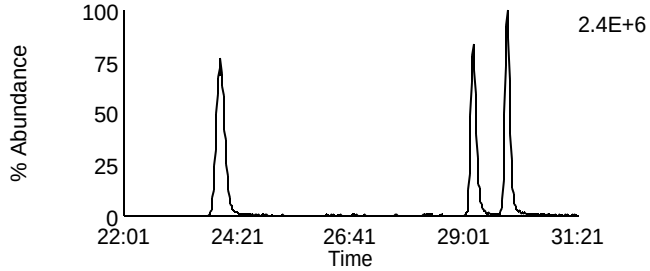
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

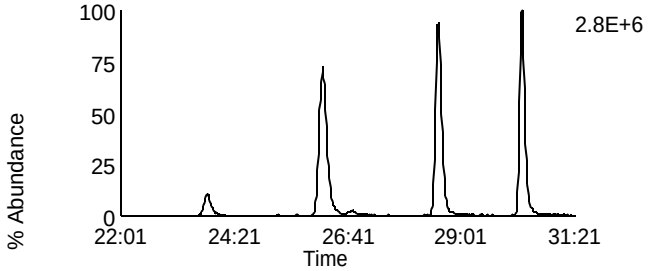
Data File: F131105A_02 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT



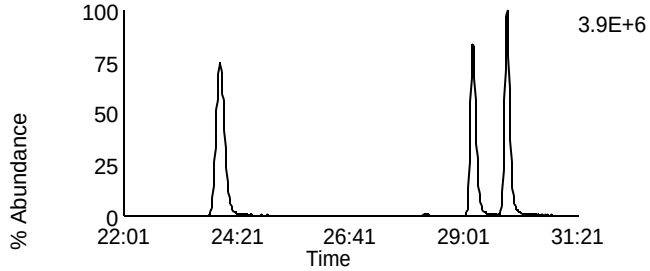
Data File: F131105A_02 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT



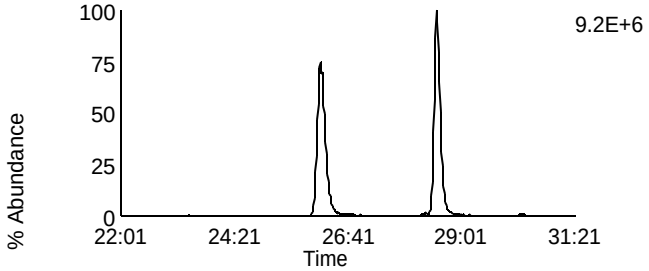
Data File: F131105A_02 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT



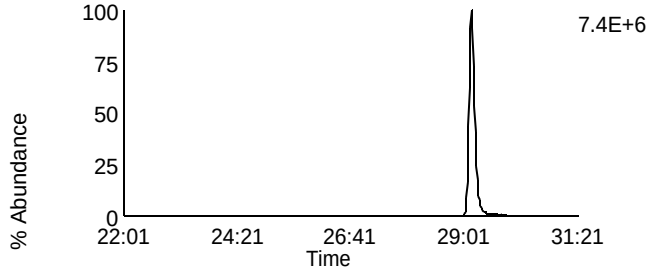
Data File: F131105A_02 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT



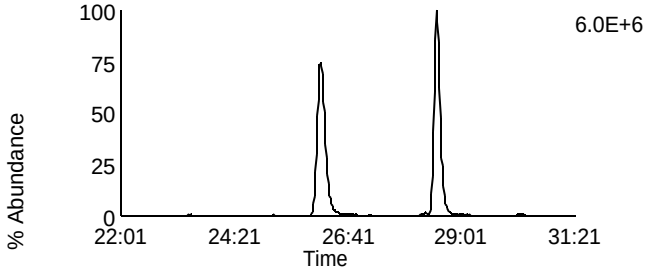
Data File: F131105A_02 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT



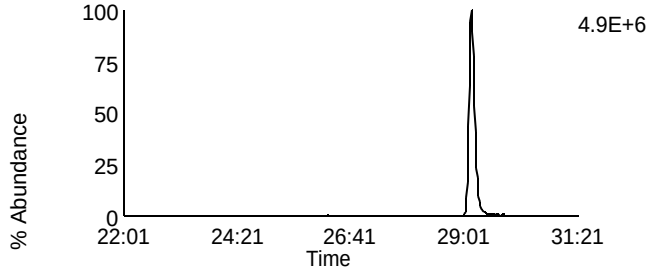
Data File: F131105A_02 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT



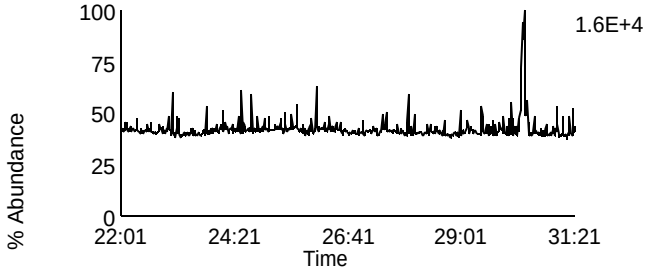
Data File: F131105A_02 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT



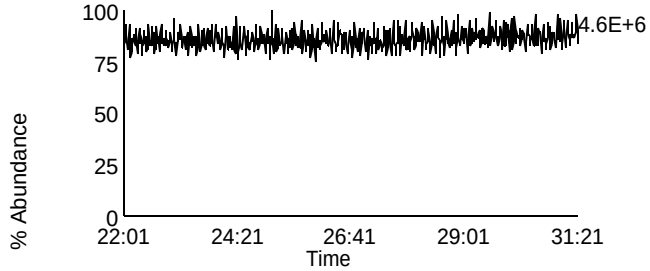
Data File: F131105A_02 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT

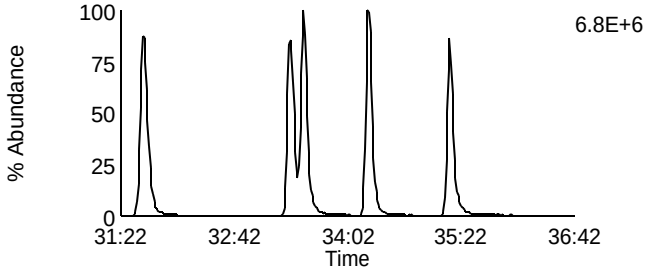


Homologue Group: Hexas

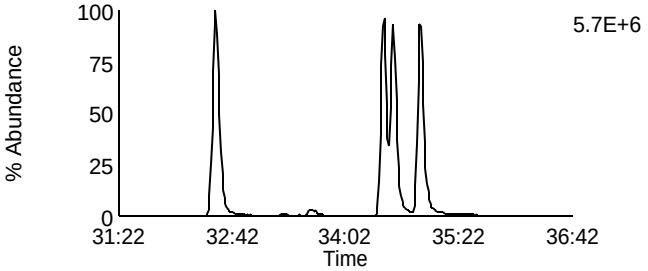
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

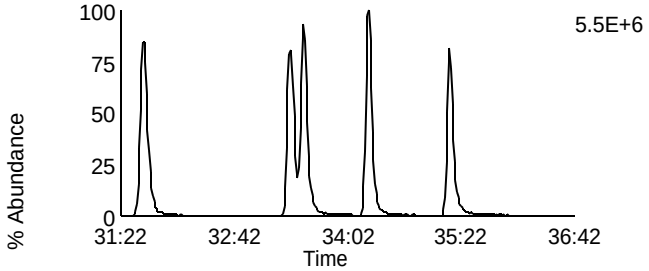
Data File: F131105A_02 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT



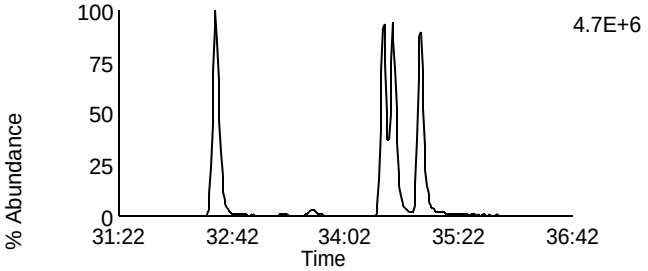
Data File: F131105A_02 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT



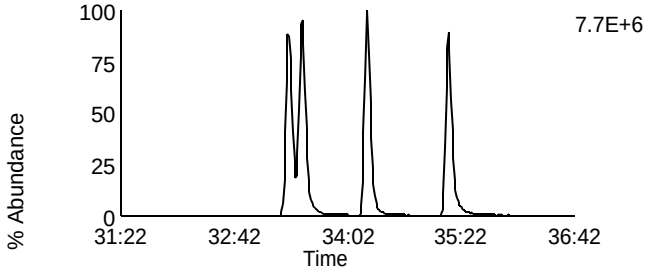
Data File: F131105A_02 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT



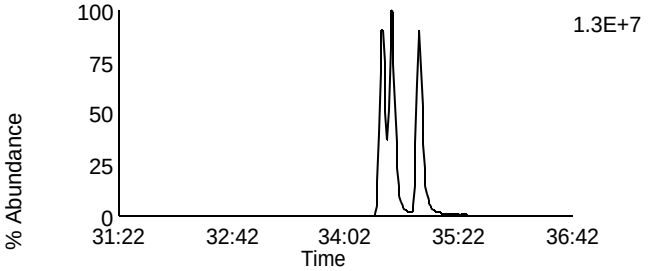
Data File: F131105A_02 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT



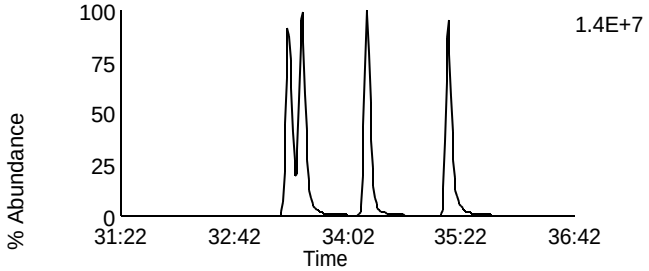
Data File: F131105A_02 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT



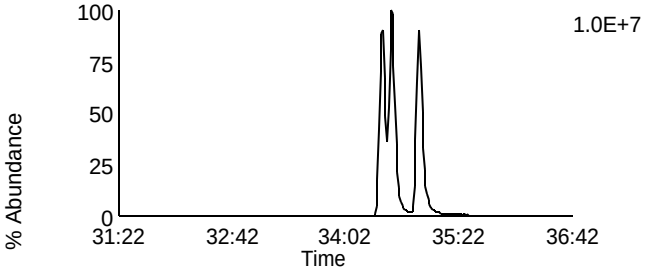
Data File: F131105A_02 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT



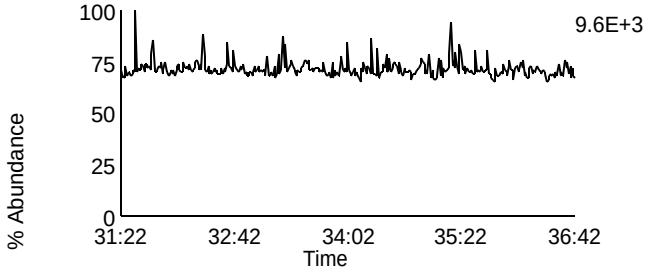
Data File: F131105A_02 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT



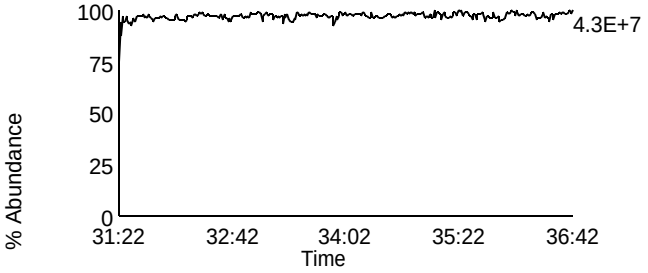
Data File: F131105A_02 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT

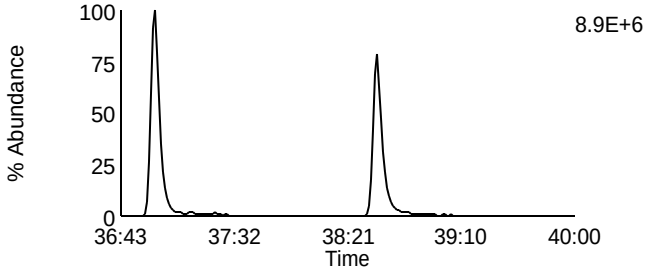


Homologue Group: Heptas

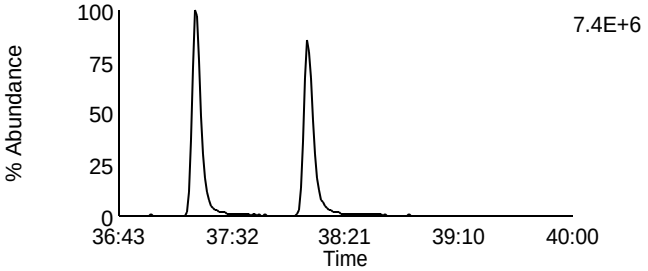
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

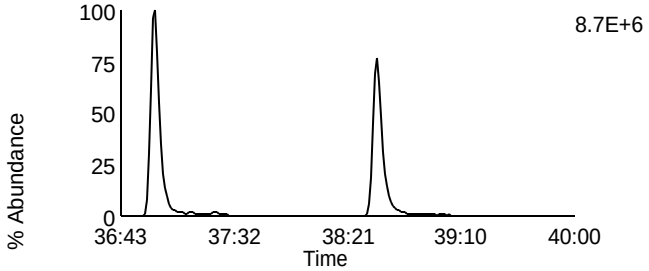
Data File: F131105A_02 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT



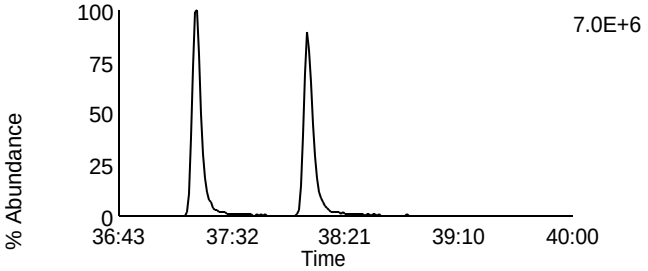
Data File: F131105A_02 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT



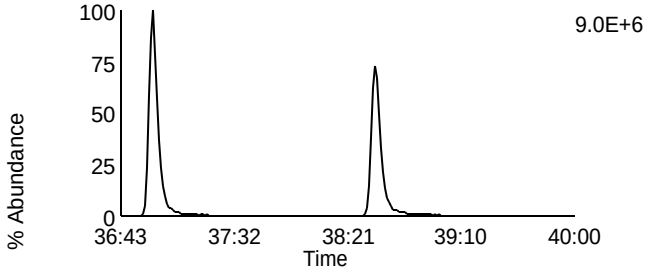
Data File: F131105A_02 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT



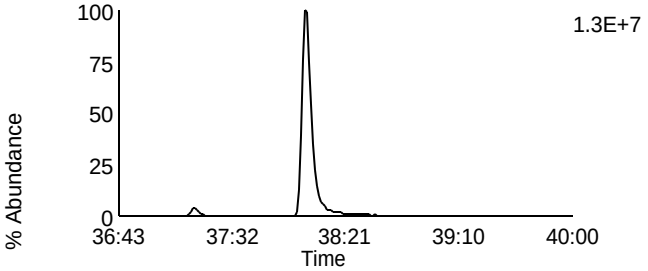
Data File: F131105A_02 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT



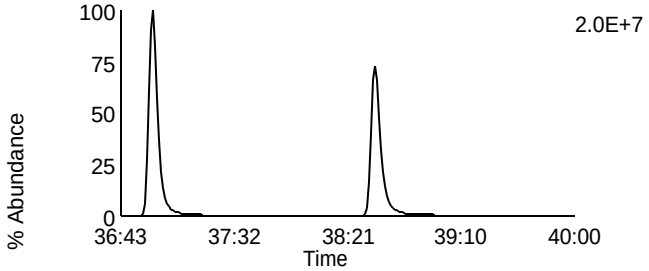
Data File: F131105A_02 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT



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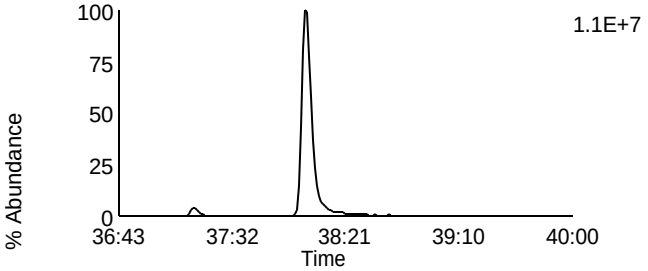
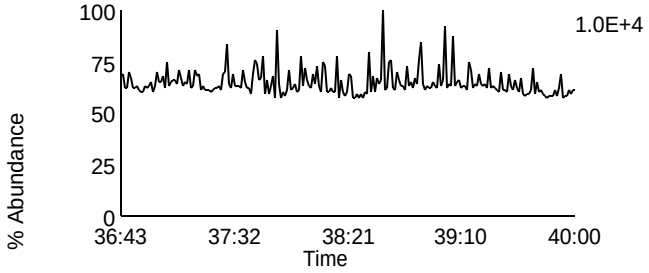
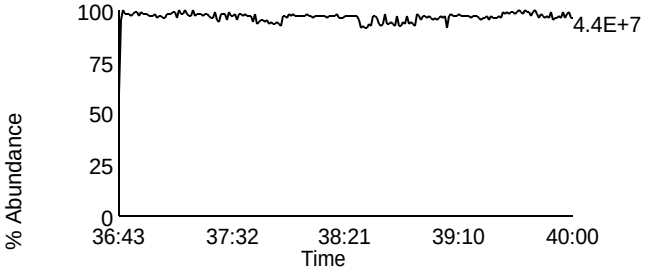
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT

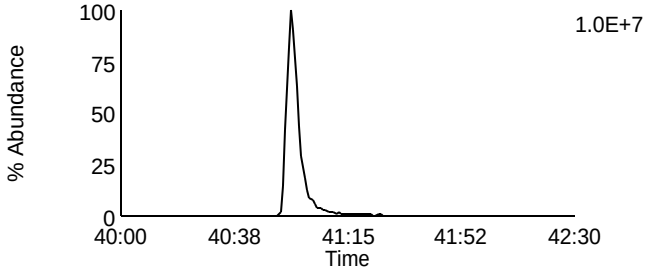


Homologue Group: Octas

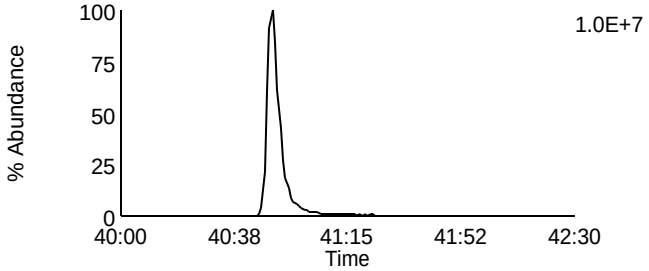
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

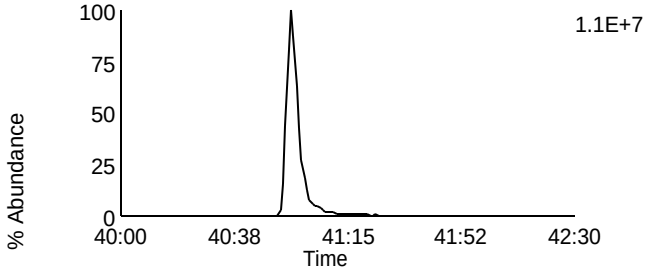
Data File: F131105A_02 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT



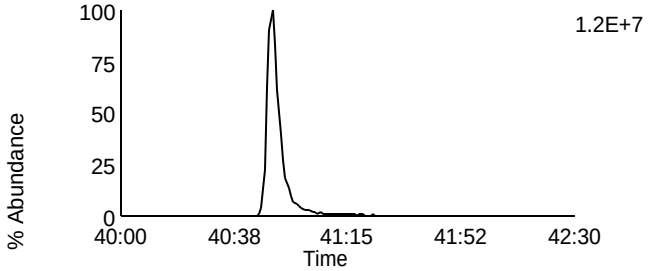
Data File: F131105A_02 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT



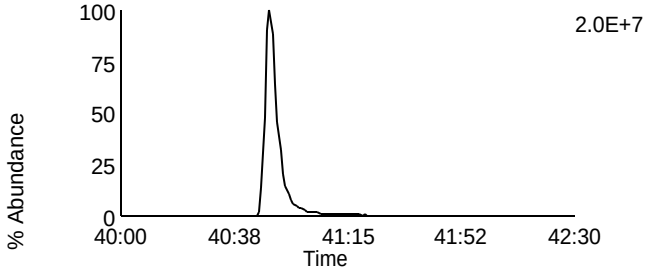
Data File: F131105A_02 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT



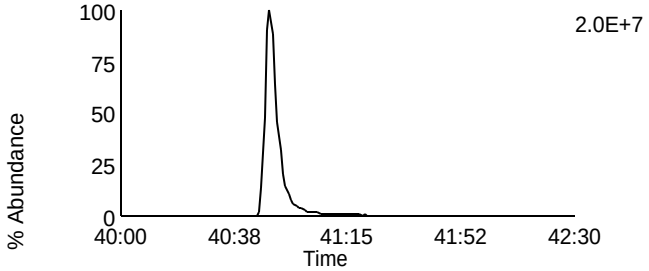
Data File: F131105A_02 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT



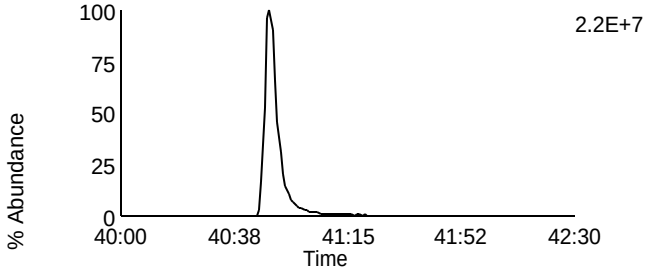
Data File: F131105A_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



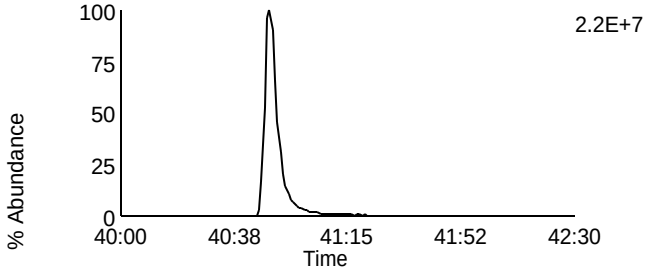
Data File: F131105A_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



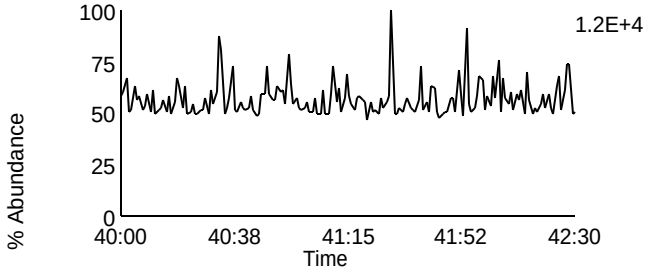
Data File: F131105A_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



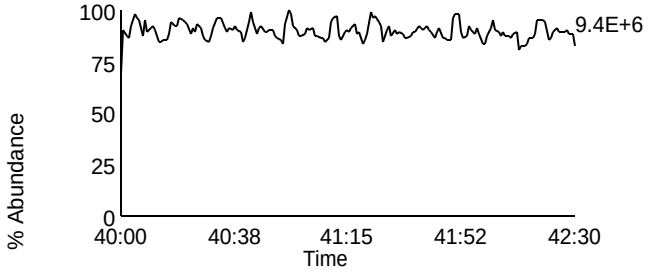
Data File: F131105A_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT

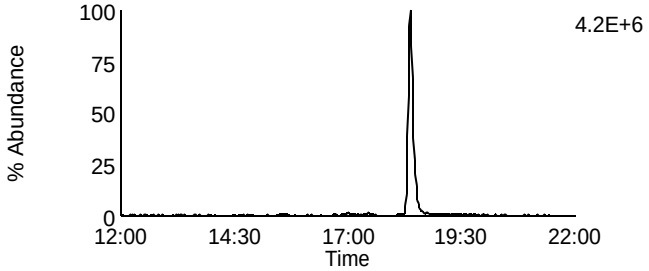


Homologue Group: Tetras

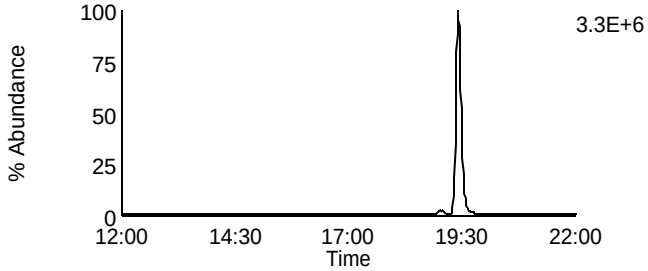
Data File Name: F131105A_06
Date Acquired: 11/5/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

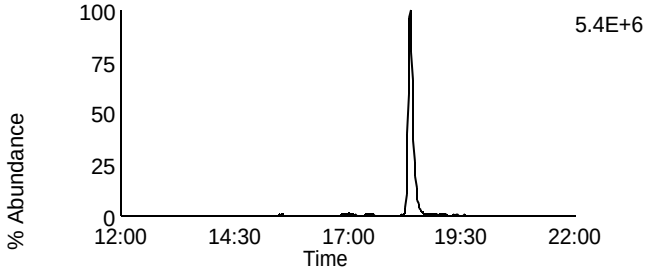
Data File: F131105A_06 G1 C1 - 303.9016
CAL CS4-7604-277 - SMT



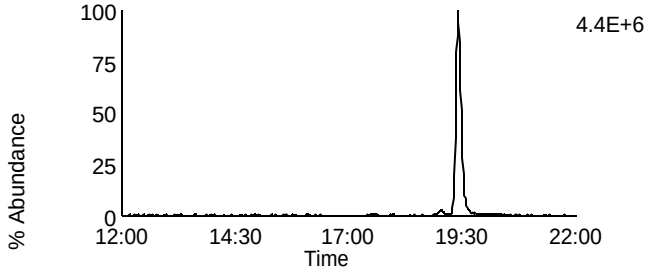
Data File: F131105A_06 G1 C7 - 319.8965
CAL CS4-7604-277 - SMT



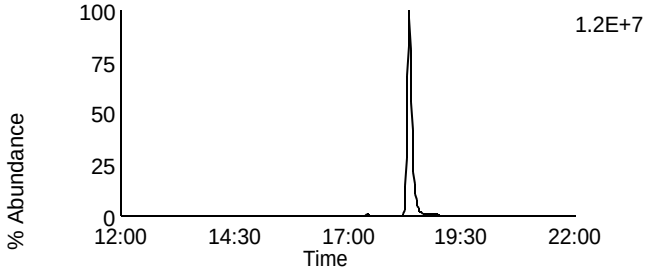
Data File: F131105A_06 G1 C2 - 305.8987
CAL CS4-7604-277 - SMT



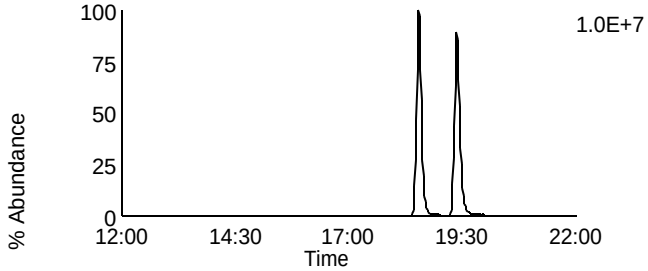
Data File: F131105A_06 G1 C8 - 321.8936
CAL CS4-7604-277 - SMT



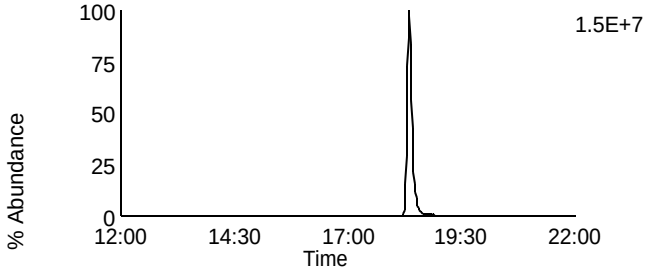
Data File: F131105A_06 G1 C3 - 315.9418
CAL CS4-7604-277 - SMT



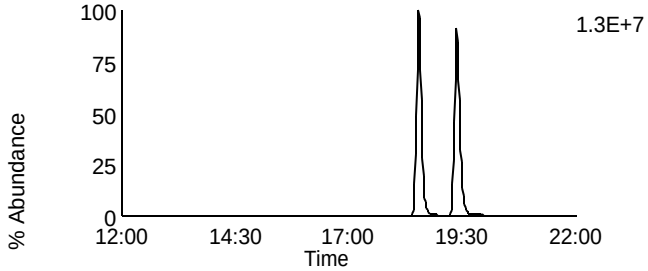
Data File: F131105A_06 G1 C10 - 331.9367
CAL CS4-7604-277 - SMT



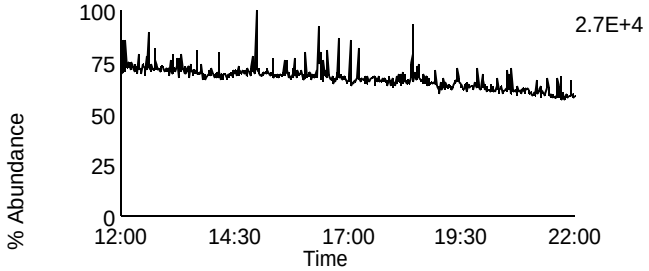
Data File: F131105A_06 G1 C4 - 317.9389
CAL CS4-7604-277 - SMT



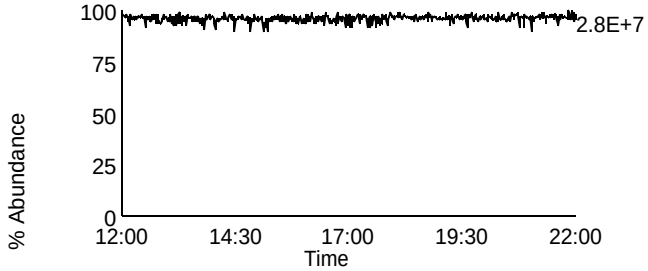
Data File: F131105A_06 G1 C11 - 333.9338
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G1 C14 - 375.8364
CAL CS4-7604-277 - SMT



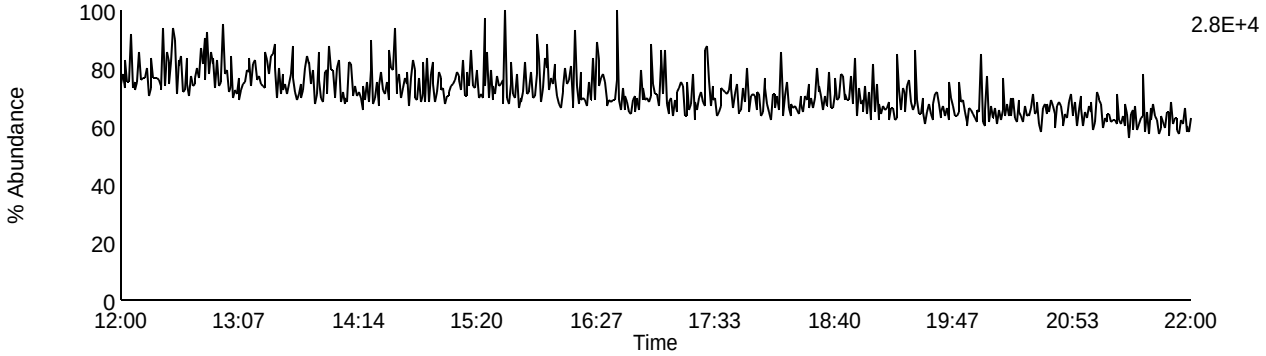
Data File: F131105A_06 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT



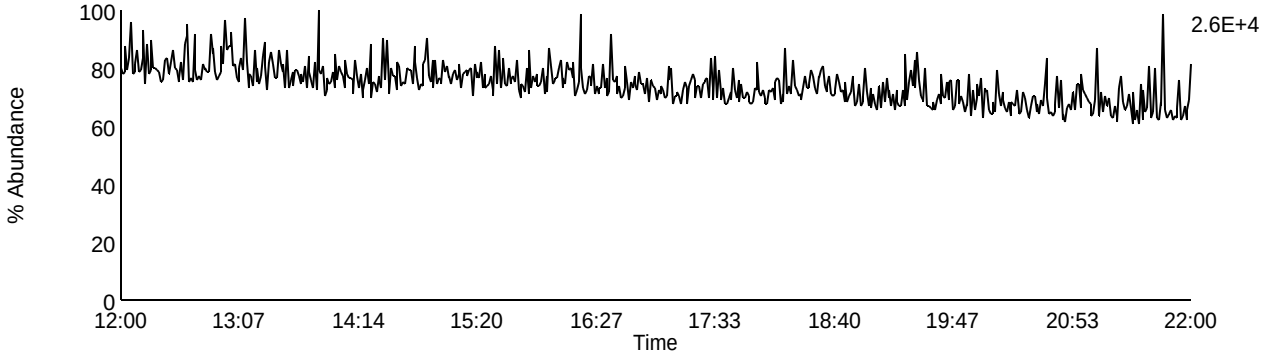
Homologue Group: Penta & Cleanup

Data File Name: F131105A_06	Lab Sample ID: CS4-7604-277
Date Acquired: 11/5/2013	Client Sample ID:
Sample Description: CAL CS4-7604-277 - SMT	Instrument: 10MSHR05 (F)

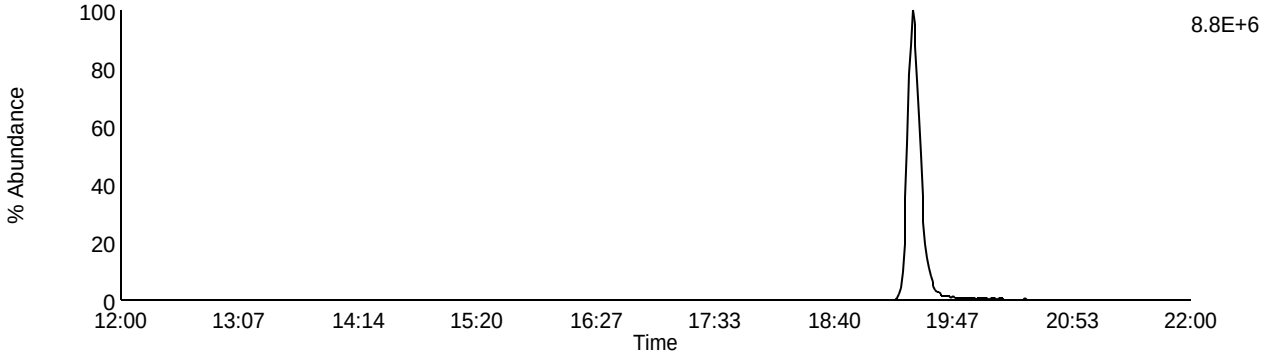
Data File: F131105A_06 G1 C12 - 339.8597
CAL CS4-7604-277 - SMT



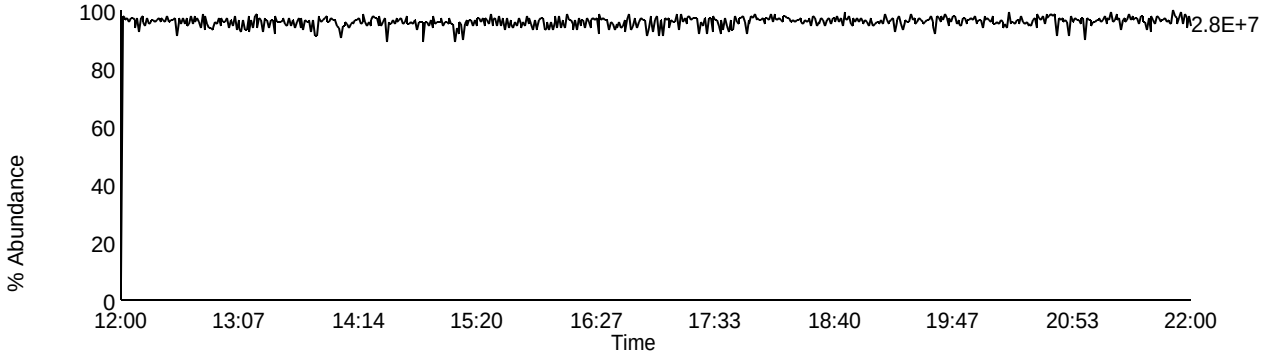
Data File: F131105A_06 G1 C13 - 341.8567
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G1 C9 - 327.8847
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT

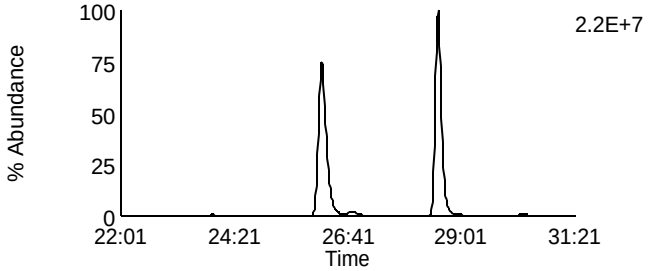


Homologue Group: Pentas

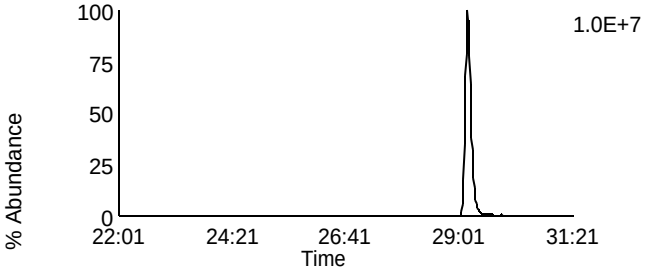
Data File Name: F131105A_06
Date Acquired: 11/5/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

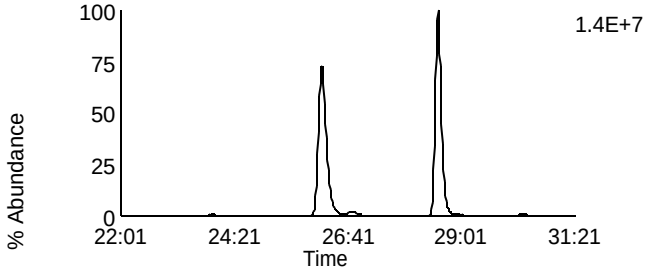
Data File: F131105A_06 G2 C1 - 339.8597
CAL CS4-7604-277 - SMT



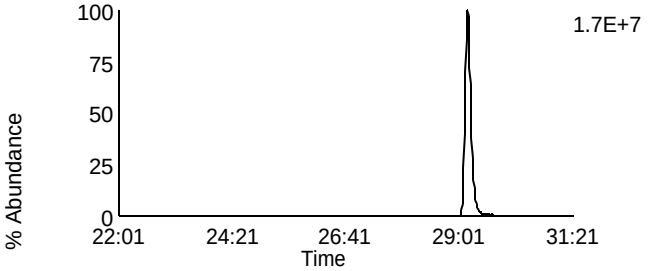
Data File: F131105A_06 G2 C4 - 353.8576
CAL CS4-7604-277 - SMT



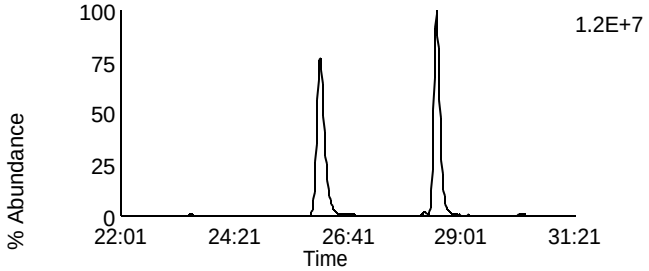
Data File: F131105A_06 G2 C2 - 341.8567
CAL CS4-7604-277 - SMT



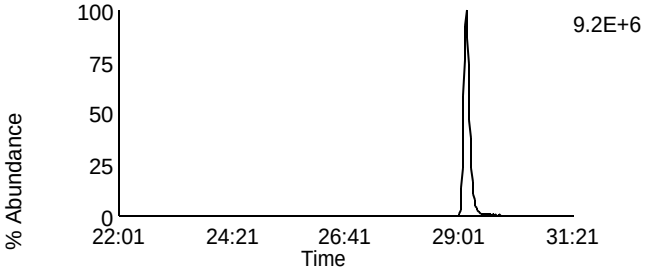
Data File: F131105A_06 G2 C8 - 355.8546
CAL CS4-7604-277 - SMT



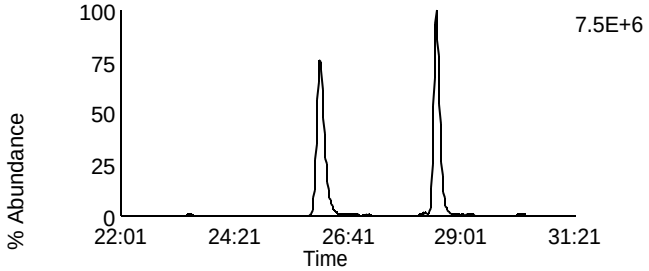
Data File: F131105A_06 G2 C3 - 351.8999
CAL CS4-7604-277 - SMT



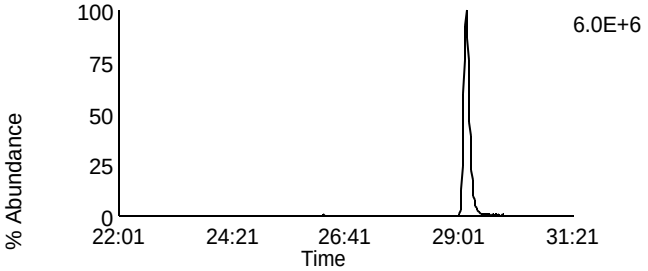
Data File: F131105A_06 G2 C10 - 367.8948
CAL CS4-7604-277 - SMT



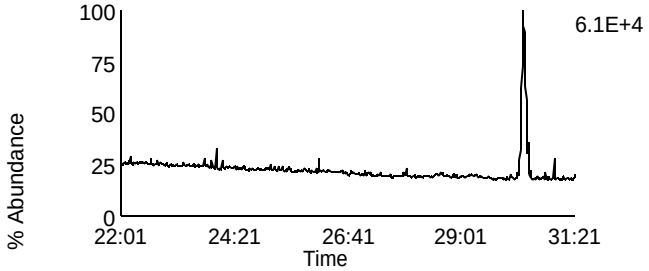
Data File: F131105A_06 G2 C5 - 353.8969
CAL CS4-7604-277 - SMT



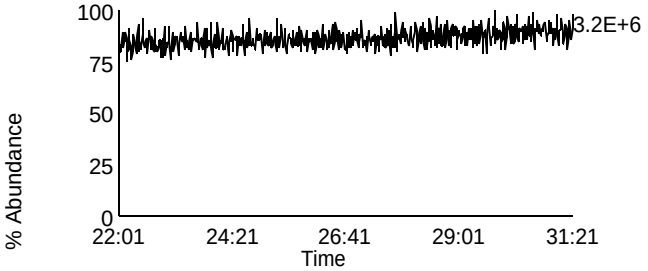
Data File: F131105A_06 G2 C11 - 369.8918
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G2 C12 - 409.7974
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G2 C6 - 354.9792
CAL CS4-7604-277 - SMT

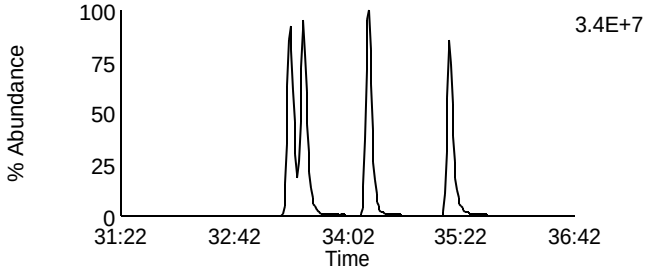


Homologue Group: Hexas

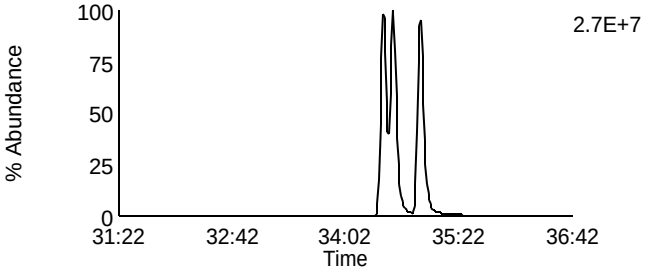
Data File Name: F131105A_06
Date Acquired: 11/5/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

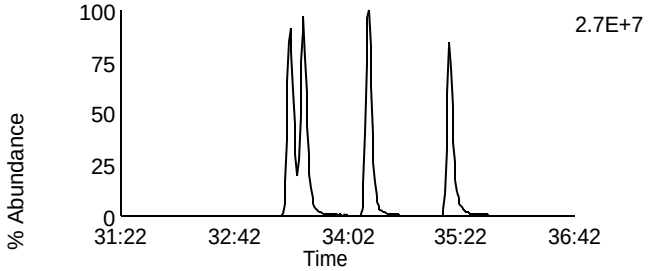
Data File: F131105A_06 G3 C1 - 373.8207
CAL CS4-7604-277 - SMT



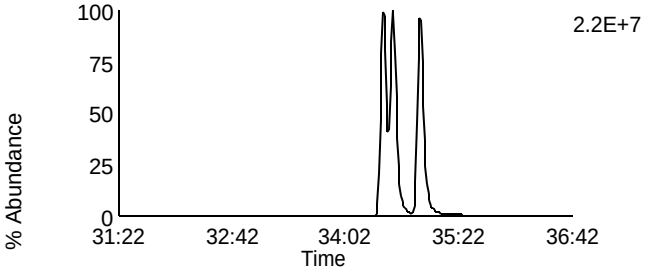
Data File: F131105A_06 G3 C7 - 389.8156
CAL CS4-7604-277 - SMT



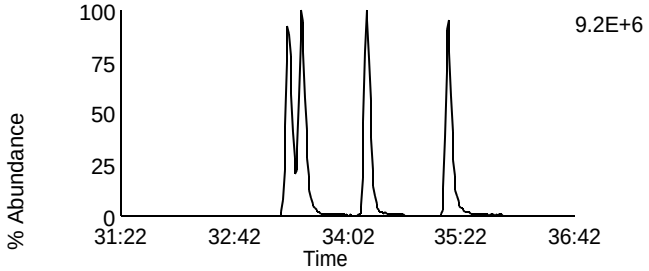
Data File: F131105A_06 G3 C2 - 375.8178
CAL CS4-7604-277 - SMT



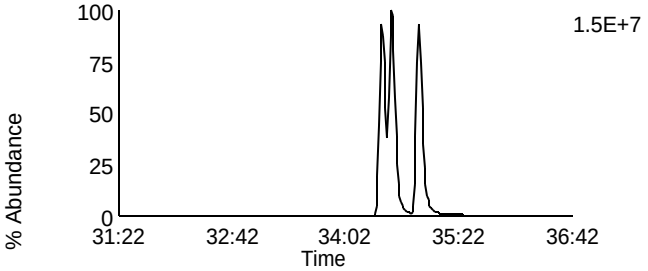
Data File: F131105A_06 G3 C8 - 391.8127
CAL CS4-7604-277 - SMT



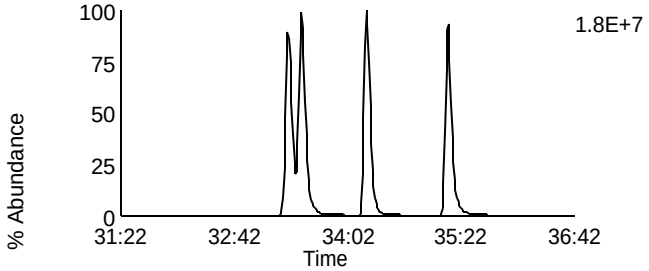
Data File: F131105A_06 G3 C5 - 383.8639
CAL CS4-7604-277 - SMT



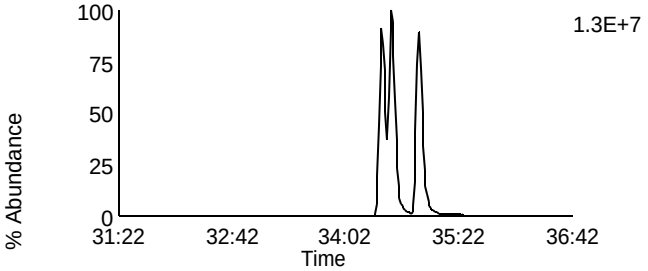
Data File: F131105A_06 G3 C9 - 401.8559
CAL CS4-7604-277 - SMT



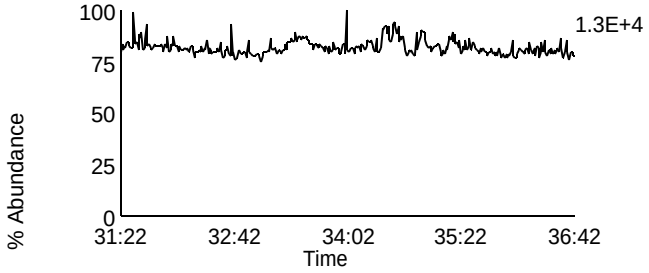
Data File: F131105A_06 G3 C6 - 385.861
CAL CS4-7604-277 - SMT



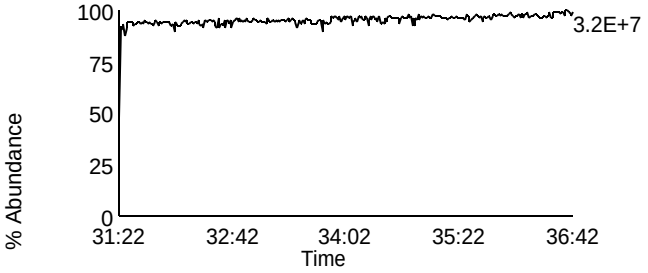
Data File: F131105A_06 G3 C10 - 403.8529
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G3 C11 - 445.7555
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G3 C3 - 380.976
CAL CS4-7604-277 - SMT

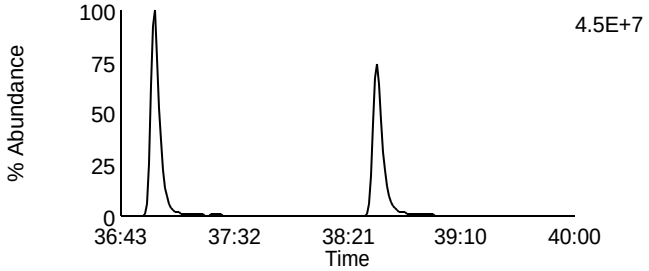


Homologue Group: Heptas

Data File Name: F131105A_06
Date Acquired: 11/5/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131105A_06 G4 C3 - 407.7818
CAL CS4-7604-277 - SMT



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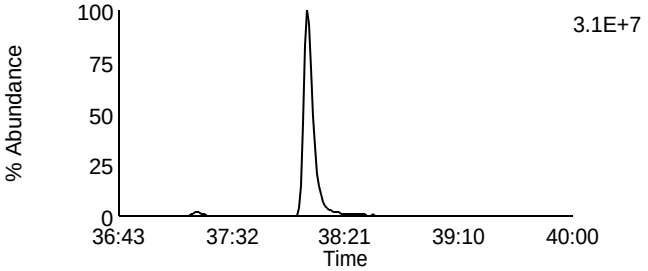
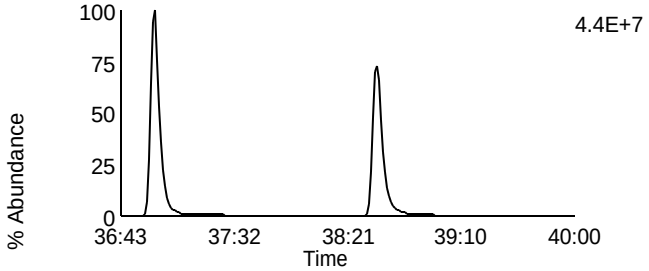
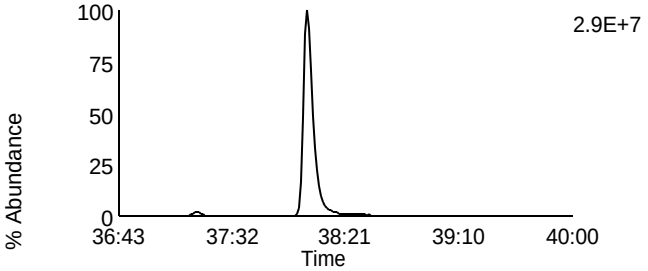
CAL CS4-7604-277 - SMT



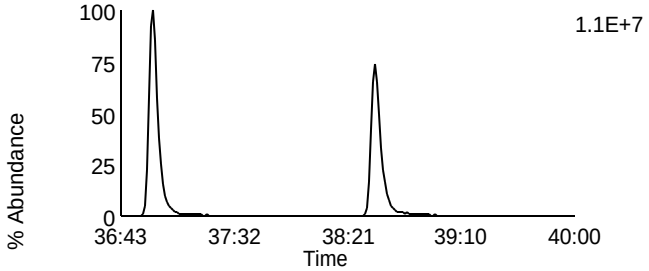
Data File: F131105A_06 G4 C4 - 409.7788
CAL CS4-7604-277 - SMT



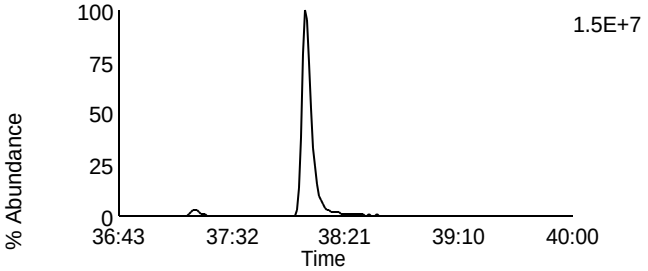
Data File: F131105A_06 G4 C9 - 425.7737
CAL CS4-7604-277 - SMT



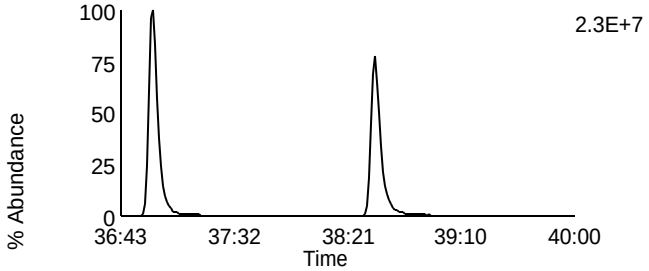
Data File: F131105A_06 G4 C6 - 417.825
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G4 C11 - 435.8169
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G4 C7 - 419.822
CAL CS4-7604-277 - SMT



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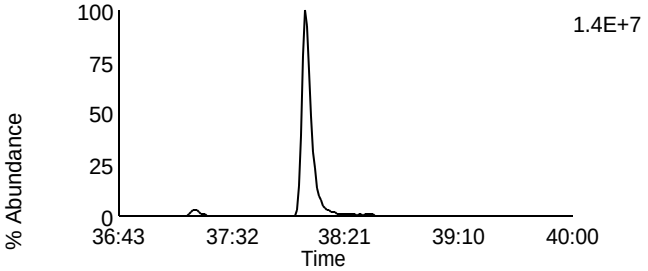
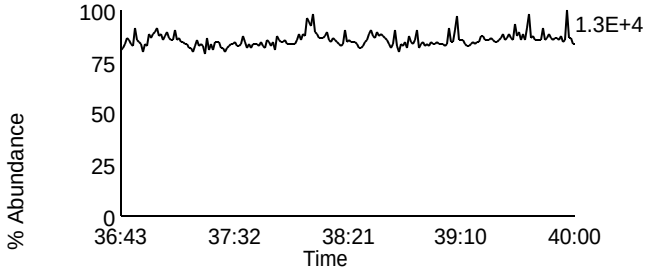
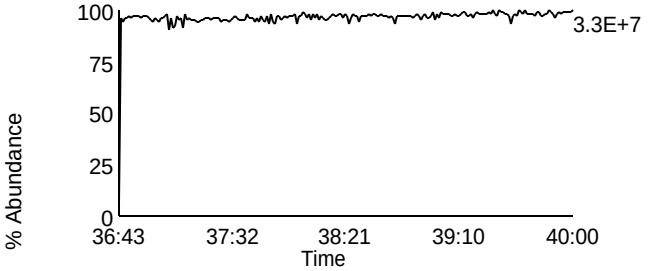
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G4 C13 - 479.7165
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G4 C1 - 380.976
CAL CS4-7604-277 - SMT

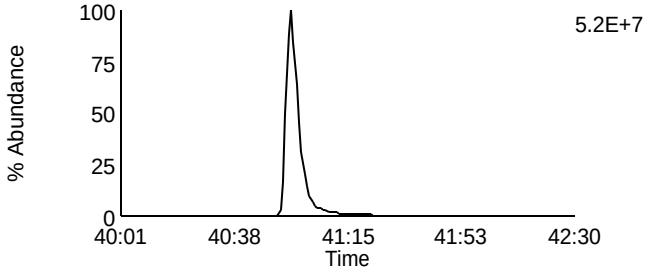


Homologue Group: Octas

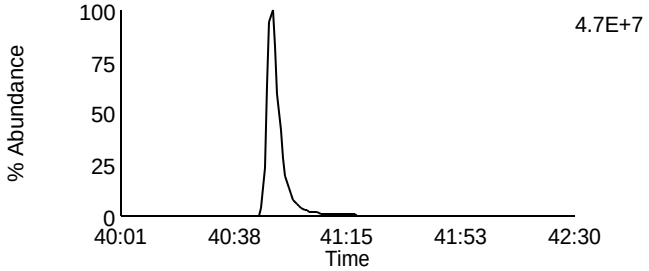
Data File Name: F131105A_06
Date Acquired: 11/5/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR05 (F)

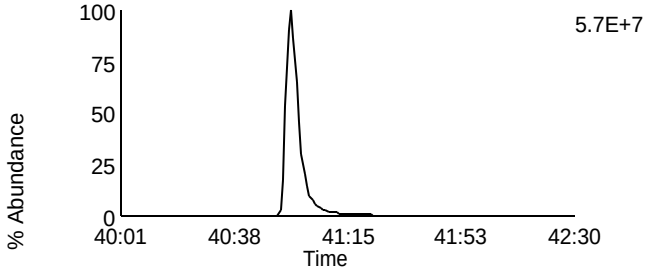
Data File: F131105A_06 G5 C4 - 441.7428
CAL CS4-7604-277 - SMT



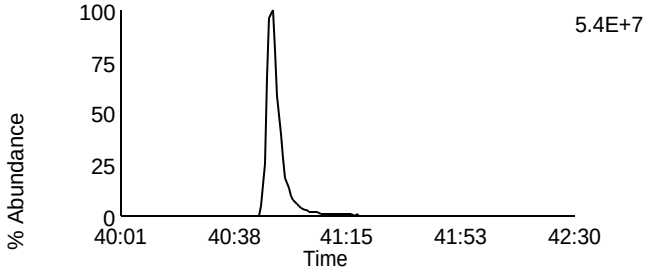
Data File: F131105A_06 G5 C8 - 457.7377
CAL CS4-7604-277 - SMT



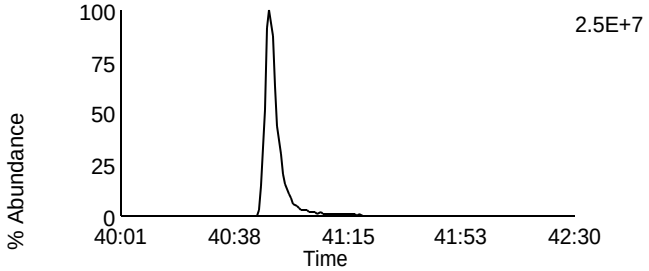
Data File: F131105A_06 G5 C5 - 443.7398
CAL CS4-7604-277 - SMT



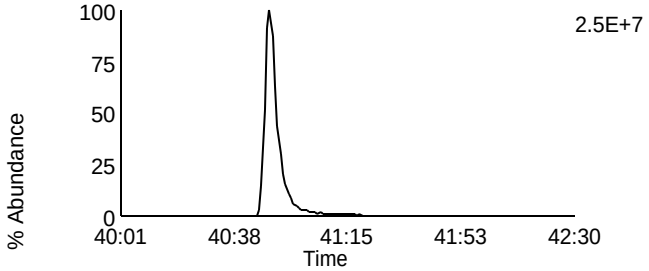
Data File: F131105A_06 G5 C9 - 459.7347
CAL CS4-7604-277 - SMT



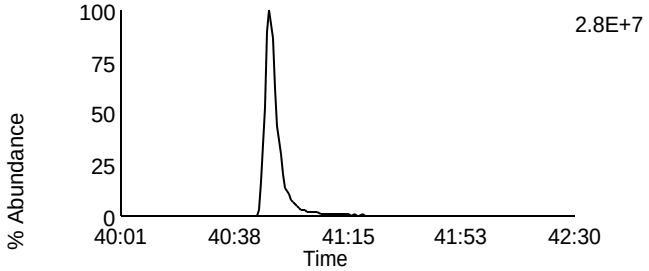
Data File: F131105A_06 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G5 C12 - 471.7749
CAL CS4-7604-277 - SMT



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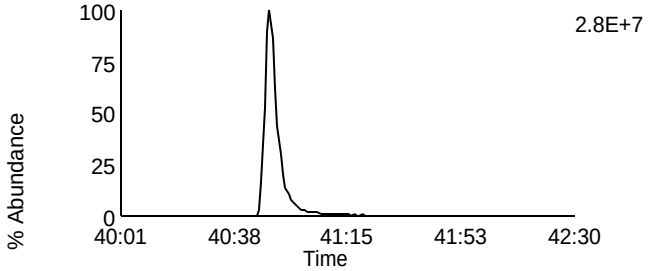
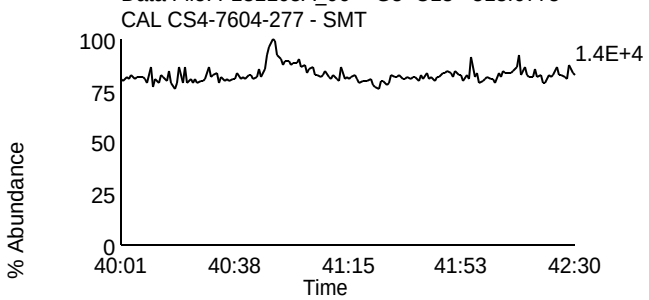
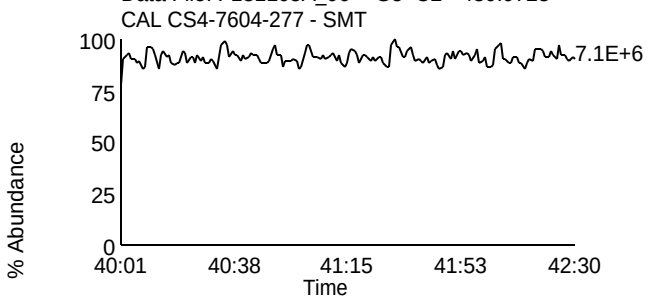
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G5 C13 - 513.6775
CAL CS4-7604-277 - SMT



Data File: F131105A_06 G5 C2 - 430.9728
CAL CS4-7604-277 - SMT

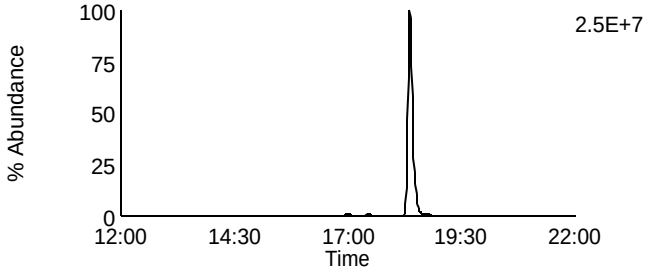


Homologue Group: Tetras

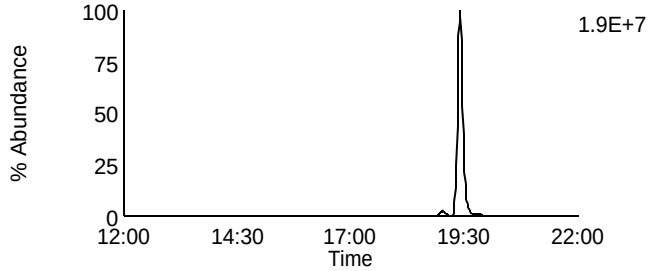
Data File Name: F131105A_05
Date Acquired: 11/5/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

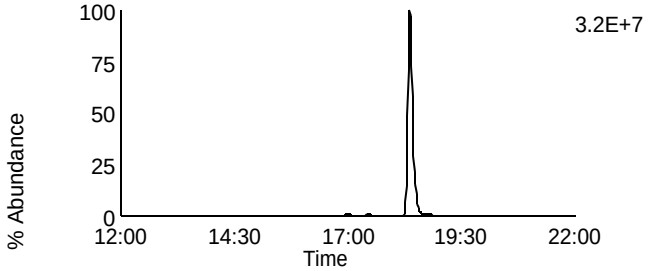
Data File: F131105A_05 G1 C1 - 303.9016
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G1 C7 - 319.8965
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G1 C2 - 305.8987
CAL CS5-7604-278 - SMT



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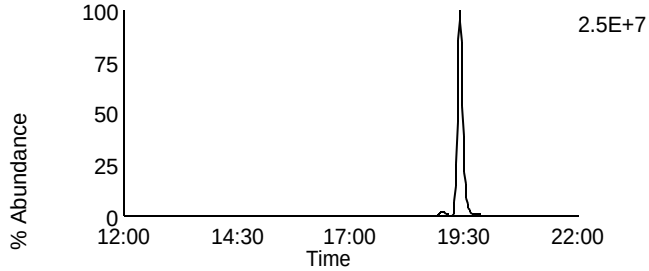
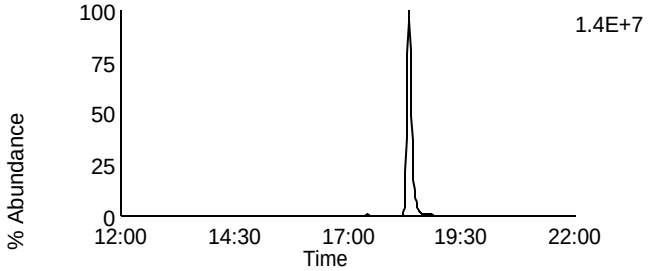
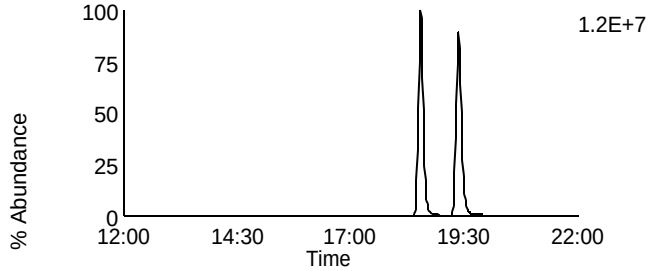
CAL CS5-7604-278 - SMT



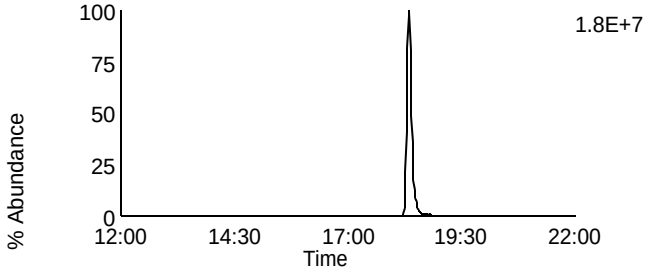
Data File: F131105A_05 G1 C3 - 315.9418
CAL CS5-7604-278 - SMT



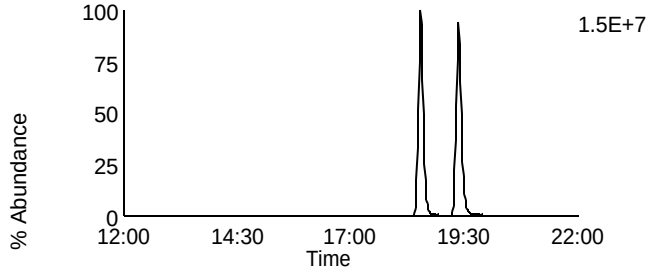
Data File: F131105A_05 G1 C10 - 331.9367
CAL CS5-7604-278 - SMT



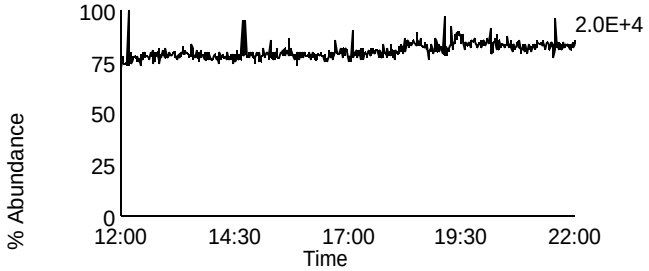
Data File: F131105A_05 G1 C4 - 317.9389
CAL CS5-7604-278 - SMT



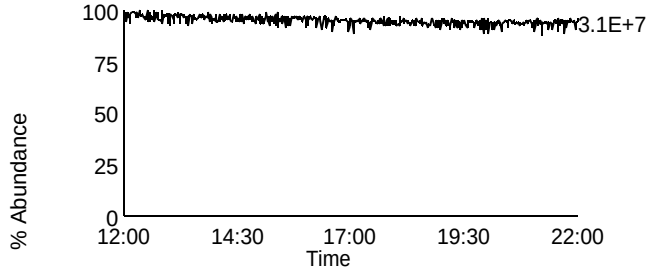
Data File: F131105A_05 G1 C11 - 333.9338
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G1 C14 - 375.8364
CAL CS5-7604-278 - SMT



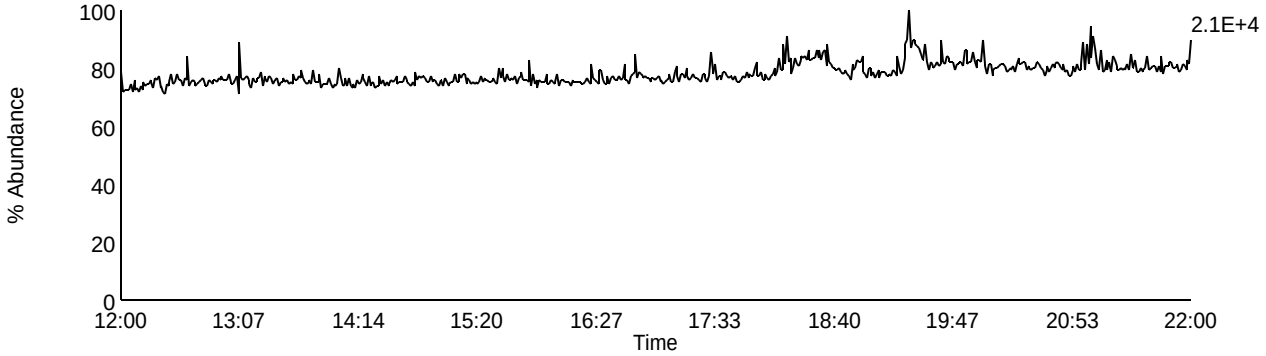
Data File: F131105A_05 G1 C5 - 318.9792
CAL CS5-7604-278 - SMT



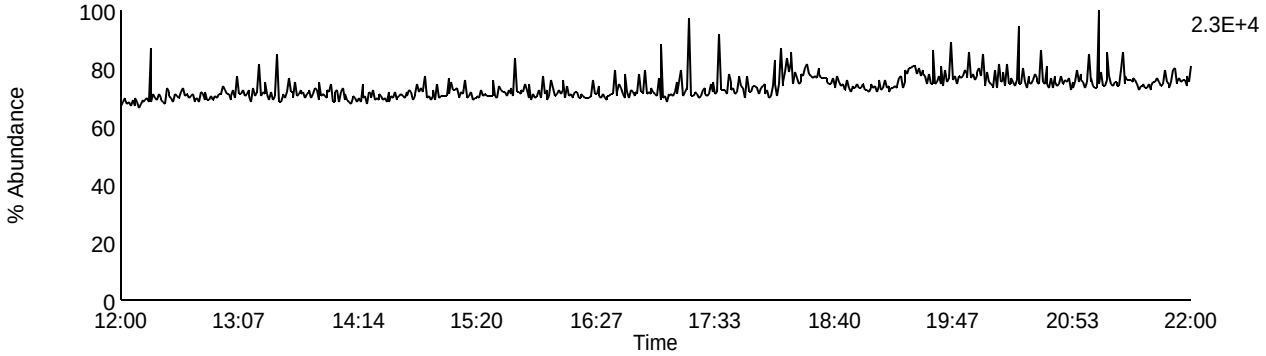
Homologue Group: Penta & Cleanup

Data File Name: F131105A_05	Lab Sample ID: CS5-7604-278
Date Acquired: 11/5/2013	Client Sample ID:
Sample Description: CAL CS5-7604-278 - SMT	Instrument: 10MSHR05 (F)

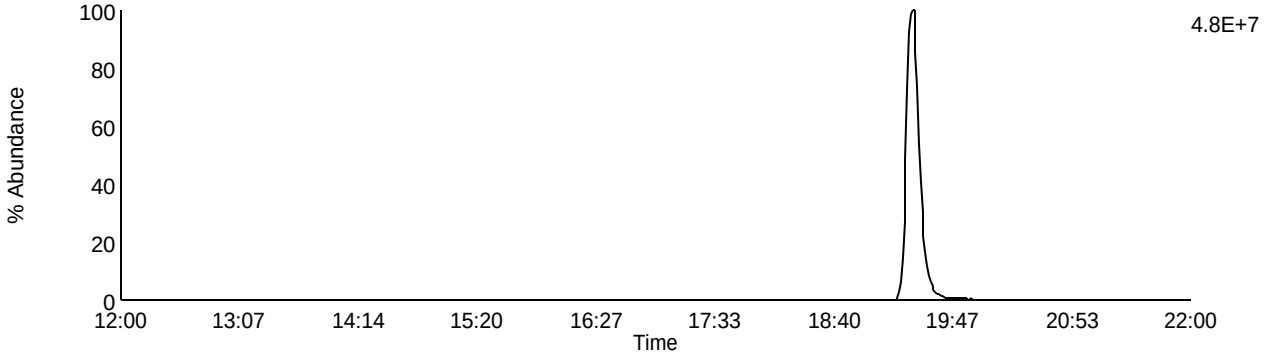
Data File: F131105A_05 G1 C12 - 339.8597
CAL CS5-7604-278 - SMT



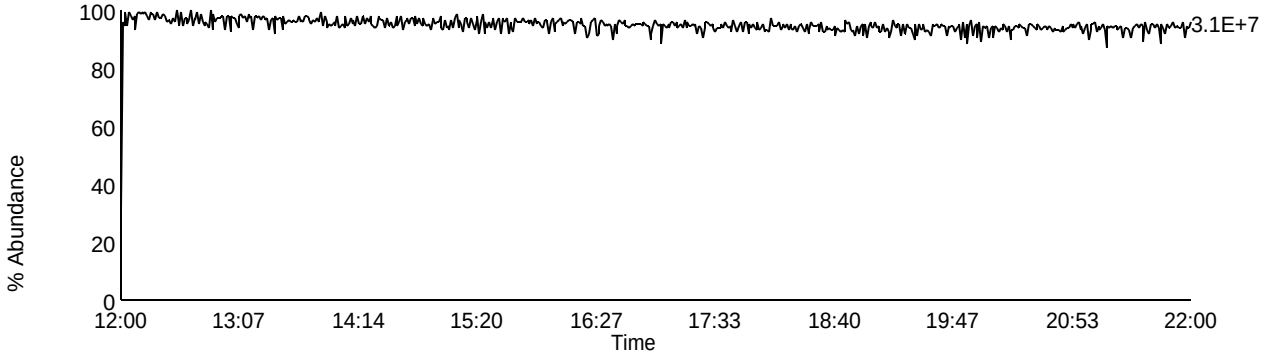
Data File: F131105A_05 G1 C13 - 341.8567
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G1 C9 - 327.8847
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G1 C5 - 318.9792
CAL CS5-7604-278 - SMT

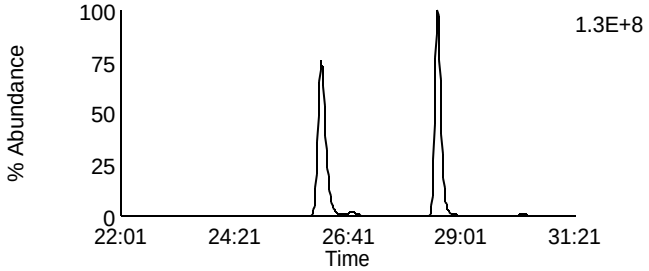


Homologue Group: Pentas

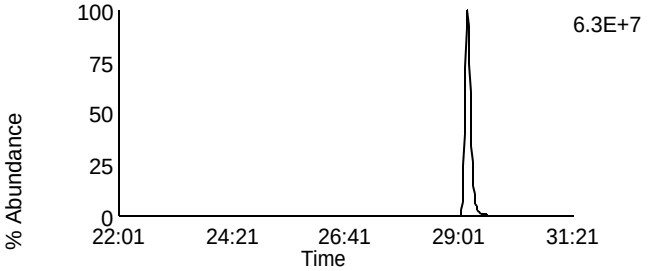
Data File Name: F131105A_05
Date Acquired: 11/5/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

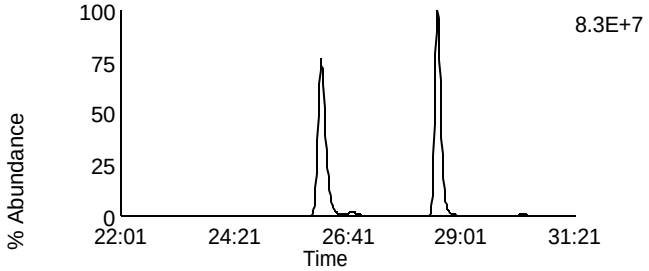
Data File: F131105A_05 G2 C1 - 339.8597
CAL CS5-7604-278 - SMT



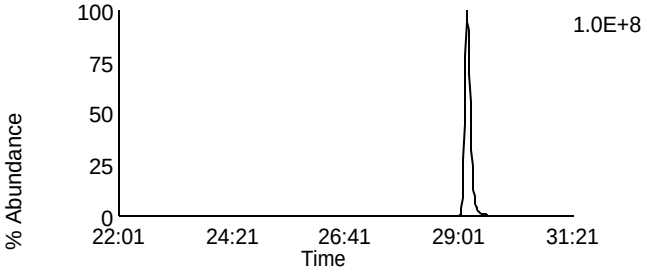
Data File: F131105A_05 G2 C4 - 353.8576
CAL CS5-7604-278 - SMT



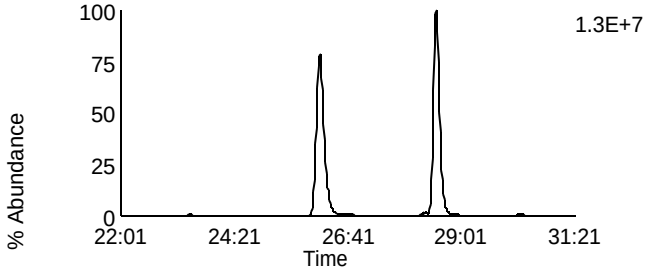
Data File: F131105A_05 G2 C2 - 341.8567
CAL CS5-7604-278 - SMT



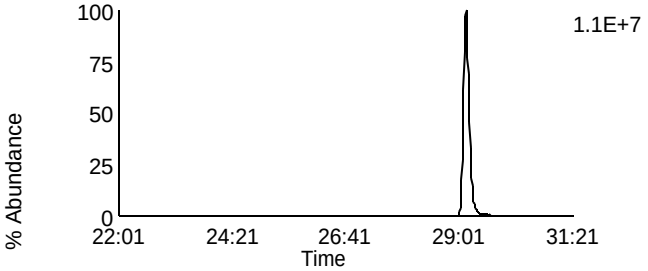
Data File: F131105A_05 G2 C8 - 355.8546
CAL CS5-7604-278 - SMT



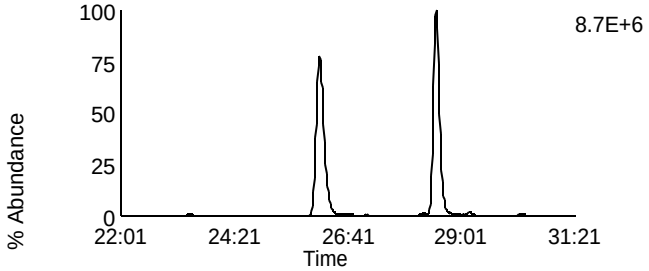
Data File: F131105A_05 G2 C3 - 351.8999
CAL CS5-7604-278 - SMT



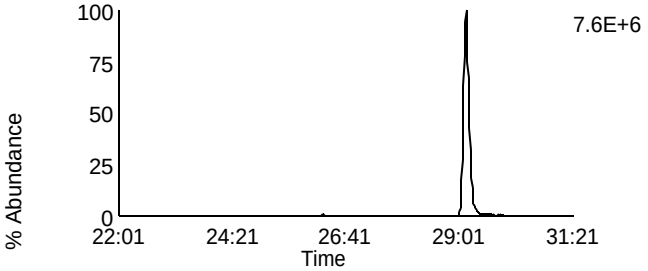
Data File: F131105A_05 G2 C10 - 367.8948
CAL CS5-7604-278 - SMT



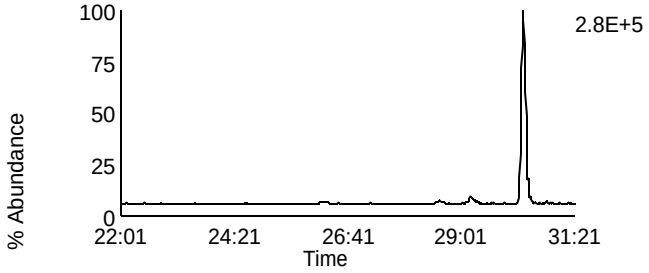
Data File: F131105A_05 G2 C5 - 353.8969
CAL CS5-7604-278 - SMT



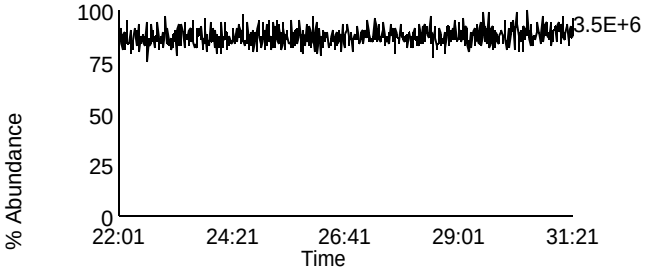
Data File: F131105A_05 G2 C11 - 369.8918
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G2 C12 - 409.7974
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G2 C6 - 354.9792
CAL CS5-7604-278 - SMT

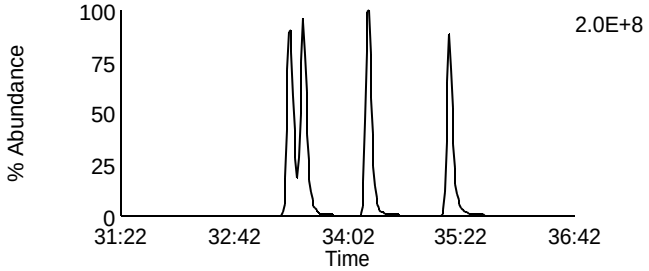


Homologue Group: Hexas

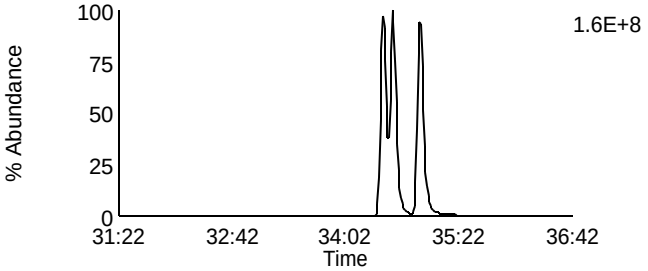
Data File Name: F131105A_05
Date Acquired: 11/5/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

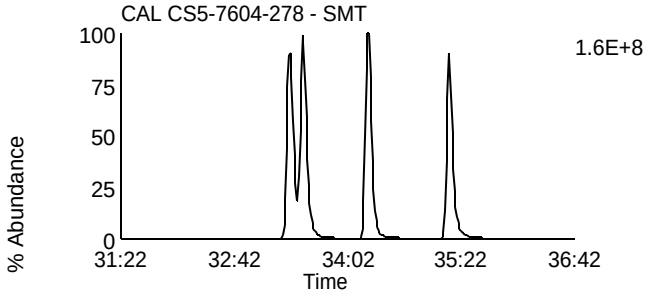
Data File: F131105A_05 G3 C1 - 373.8207
CAL CS5-7604-278 - SMT



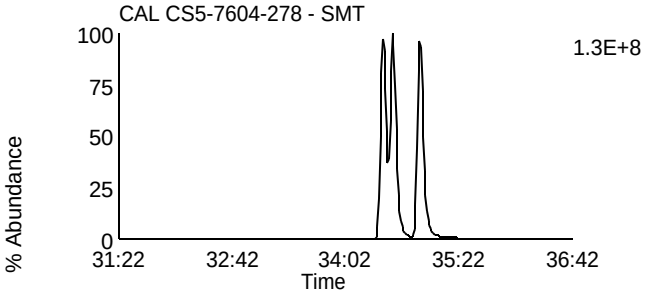
Data File: F131105A_05 G3 C7 - 389.8156
CAL CS5-7604-278 - SMT



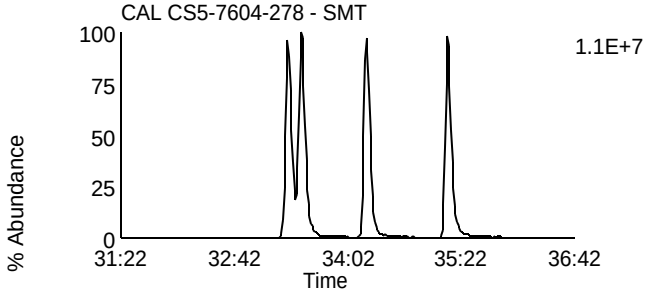
Data File: F131105A_05 G3 C2 - 375.8178
CAL CS5-7604-278 - SMT



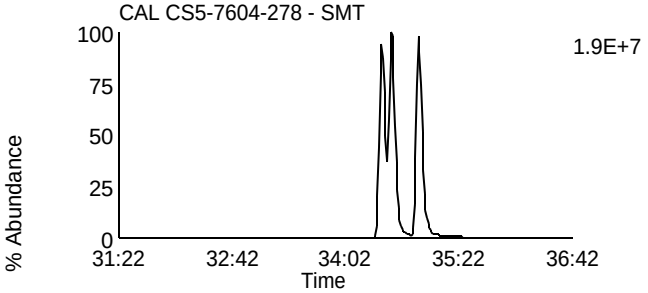
Data File: F131105A_05 G3 C8 - 391.8127
CAL CS5-7604-278 - SMT



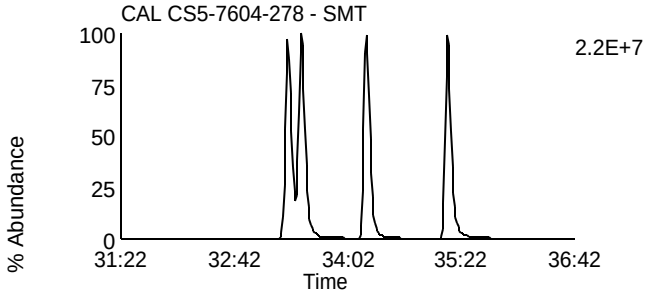
Data File: F131105A_05 G3 C5 - 383.8639
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G3 C9 - 401.8559
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G3 C6 - 385.861
CAL CS5-7604-278 - SMT



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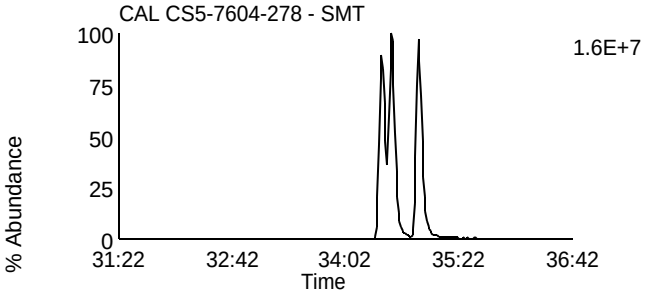
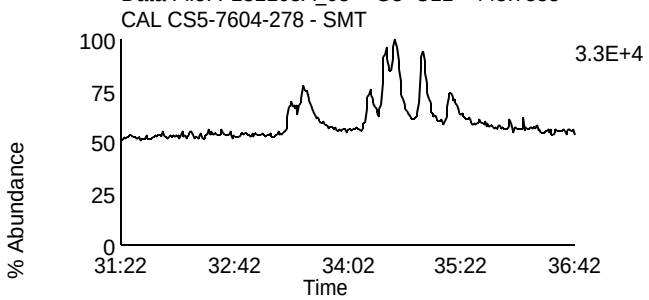
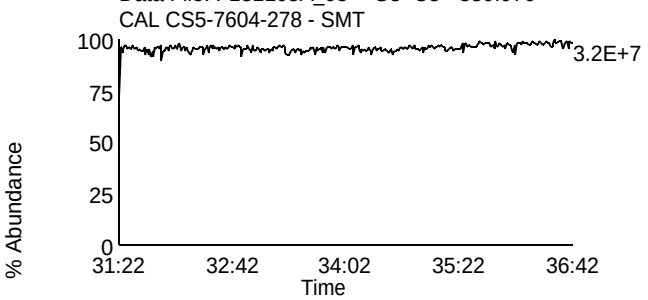
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G3 C11 - 445.7555
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G3 C3 - 380.976
CAL CS5-7604-278 - SMT

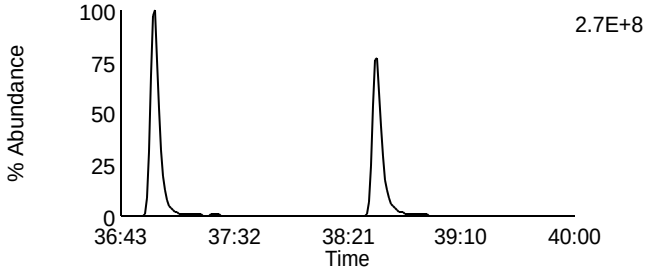


Homologue Group: Heptas

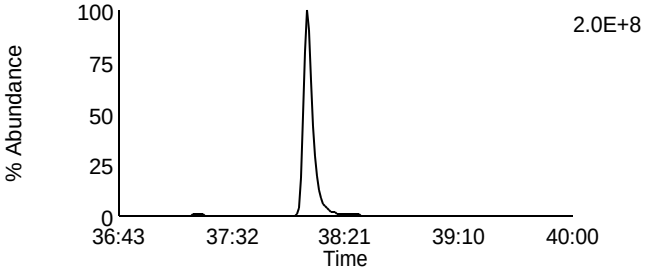
Data File Name: F131105A_05
Date Acquired: 11/5/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

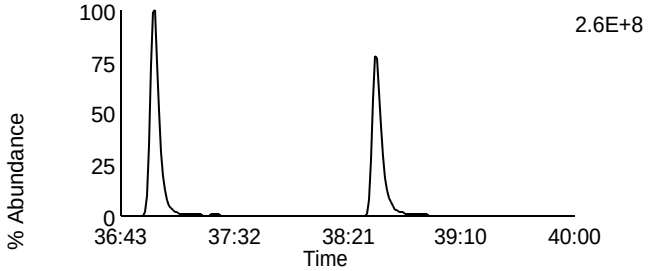
Data File: F131105A_05 G4 C3 - 407.7818
CAL CS5-7604-278 - SMT



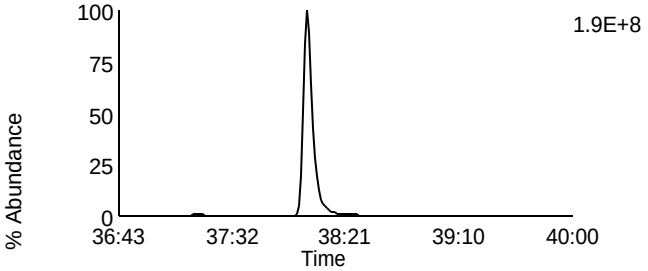
Data File: F131105A_05 G4 C8 - 423.7767
CAL CS5-7604-278 - SMT



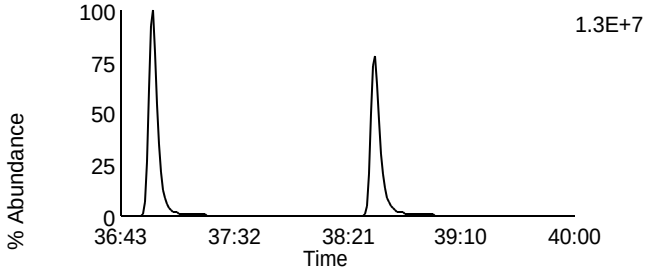
Data File: F131105A_05 G4 C4 - 409.7788
CAL CS5-7604-278 - SMT



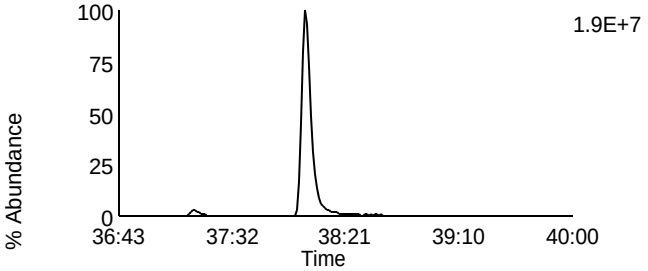
Data File: F131105A_05 G4 C9 - 425.7737
CAL CS5-7604-278 - SMT



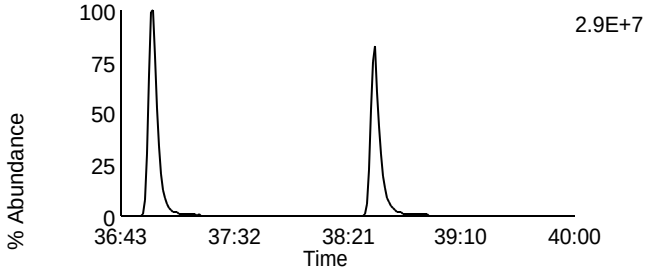
Data File: F131105A_05 G4 C6 - 417.825
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G4 C11 - 435.8169
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G4 C7 - 419.822
CAL CS5-7604-278 - SMT



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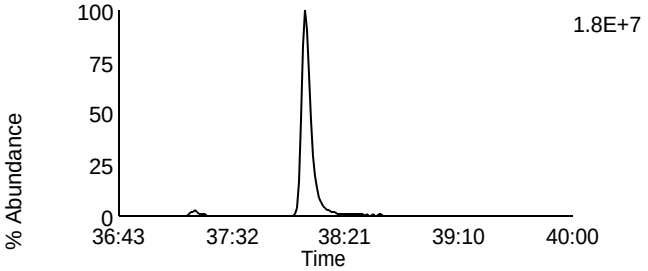
CAL CS5-7604-278 - SMT



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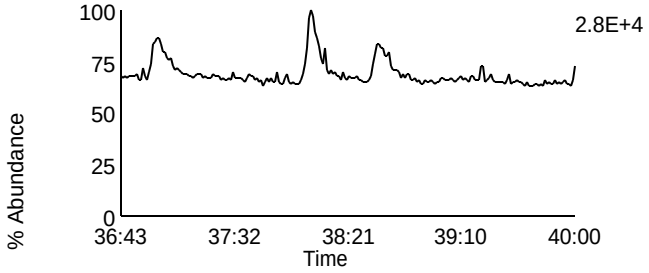
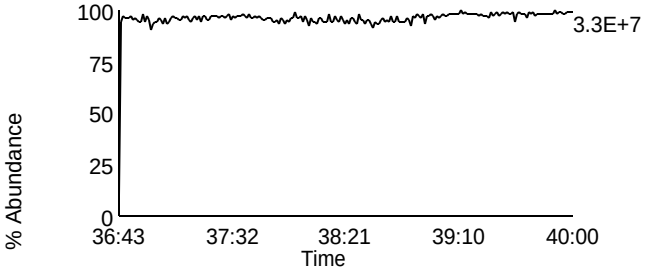
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G4 C1 - 380.976
CAL CS5-7604-278 - SMT

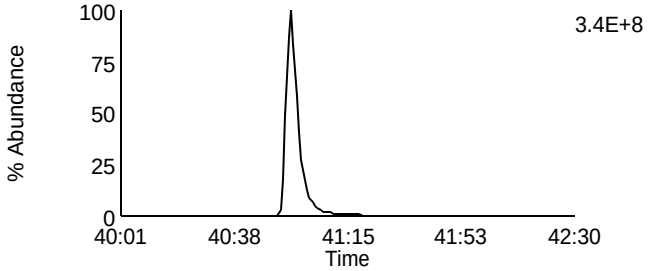


Homologue Group: Octas

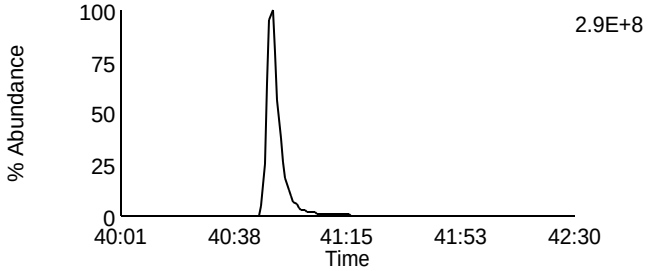
Data File Name: F131105A_05
Date Acquired: 11/5/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR05 (F)

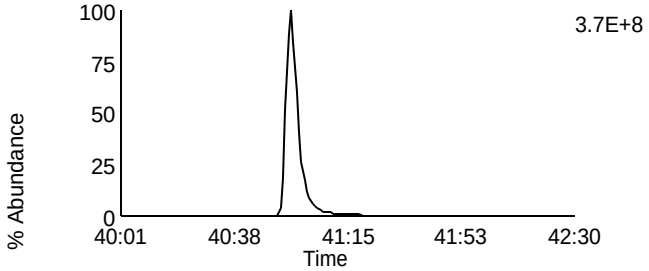
Data File: F131105A_05 G5 C4 - 441.7428
CAL CS5-7604-278 - SMT



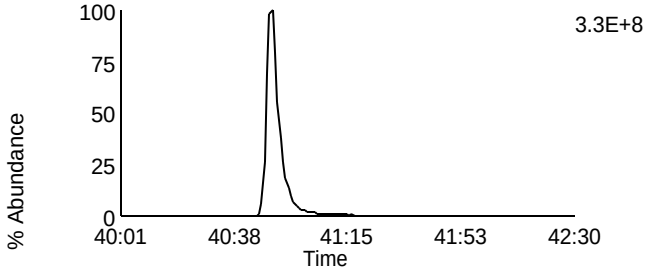
Data File: F131105A_05 G5 C8 - 457.7377
CAL CS5-7604-278 - SMT



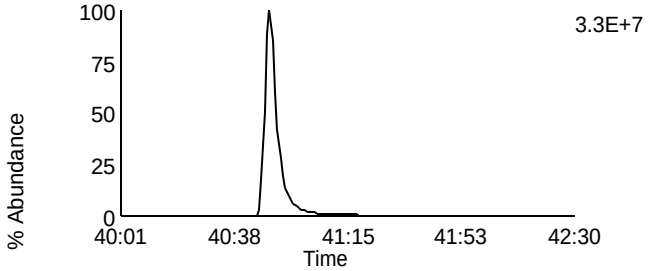
Data File: F131105A_05 G5 C5 - 443.7398
CAL CS5-7604-278 - SMT



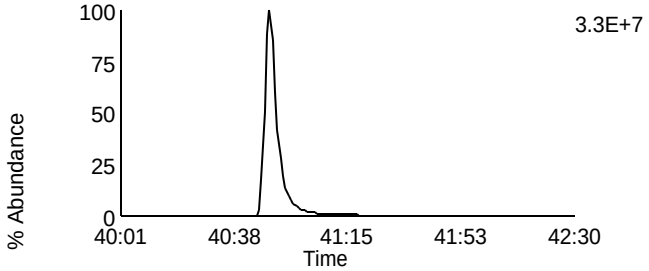
Data File: F131105A_05 G5 C9 - 459.7347
CAL CS5-7604-278 - SMT



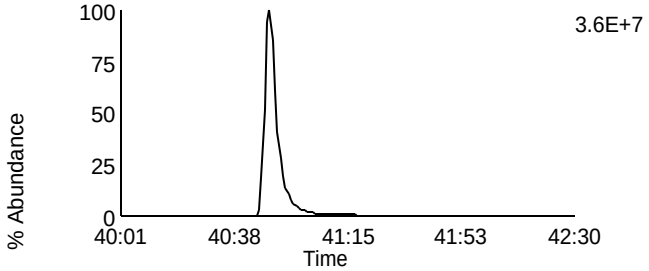
Data File: F131105A_05 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



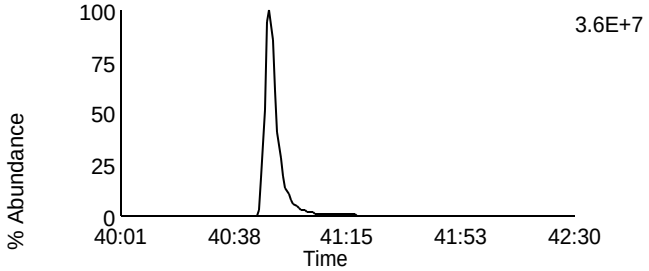
Data File: F131105A_05 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



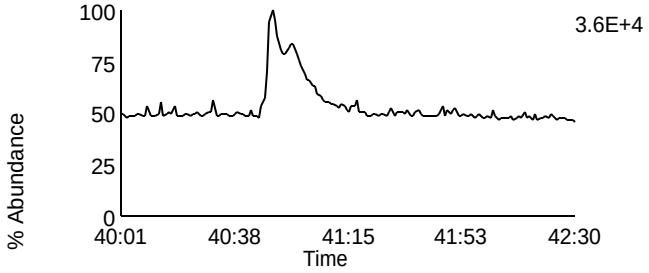
Data File: F131105A_05 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



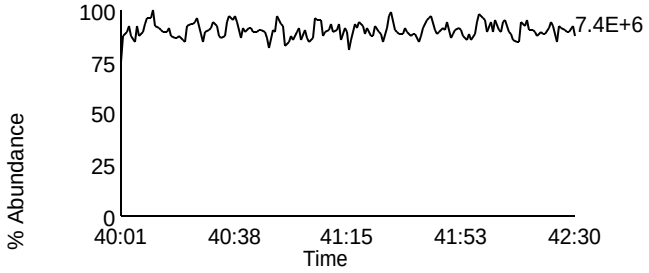
Data File: F131105A_05 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G5 C13 - 513.6775
CAL CS5-7604-278 - SMT



Data File: F131105A_05 G5 C2 - 430.9728
CAL CS5-7604-278 - SMT

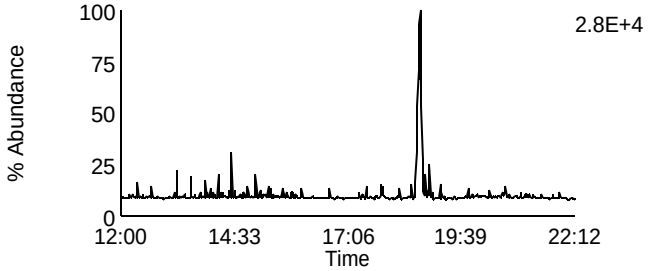


Homologue Group: Tetras

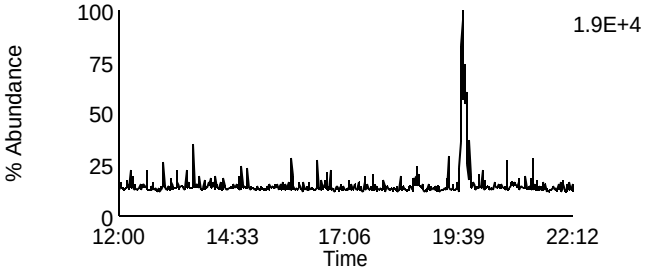
Data File Name: U131104A_08
Date Acquired: 11/4/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

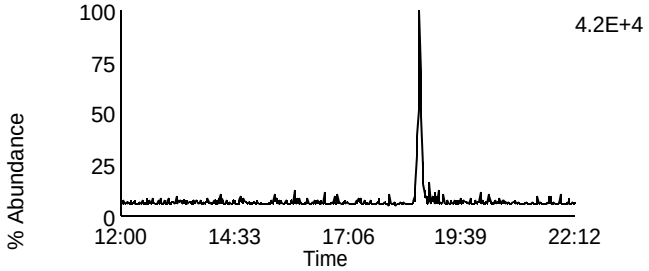
Data File: U131104A_08 G1 C1 - 303.9016
CAL CS1-7604-273 - SMT



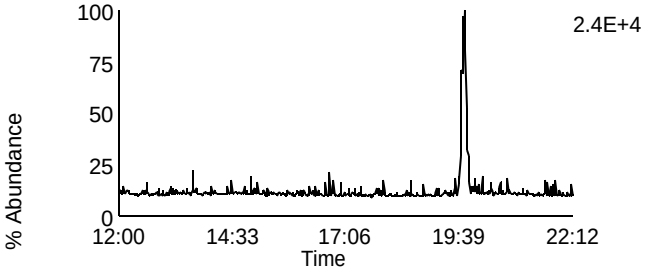
Data File: U131104A_08 G1 C7 - 319.8965
CAL CS1-7604-273 - SMT



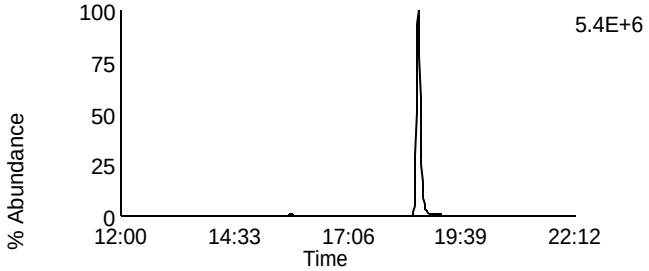
Data File: U131104A_08 G1 C2 - 305.8987
CAL CS1-7604-273 - SMT



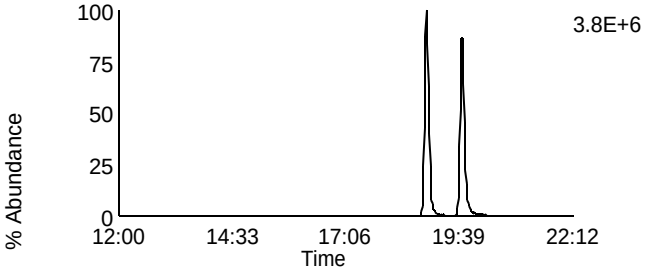
Data File: U131104A_08 G1 C8 - 321.8936
CAL CS1-7604-273 - SMT



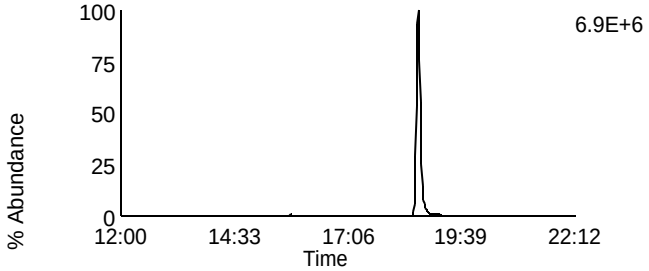
Data File: U131104A_08 G1 C3 - 315.9418
CAL CS1-7604-273 - SMT



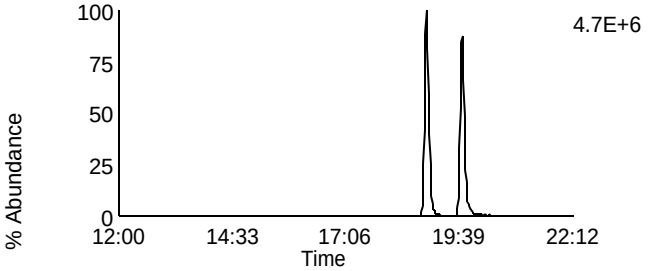
Data File: U131104A_08 G1 C10 - 331.9367
CAL CS1-7604-273 - SMT



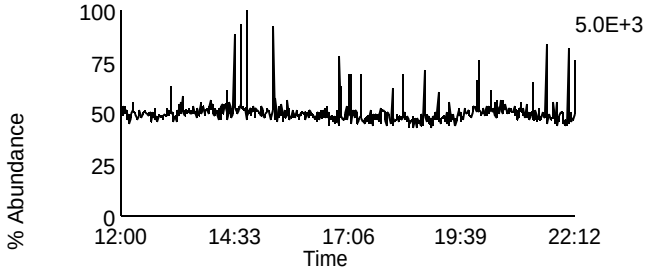
Data File: U131104A_08 G1 C4 - 317.9389
CAL CS1-7604-273 - SMT



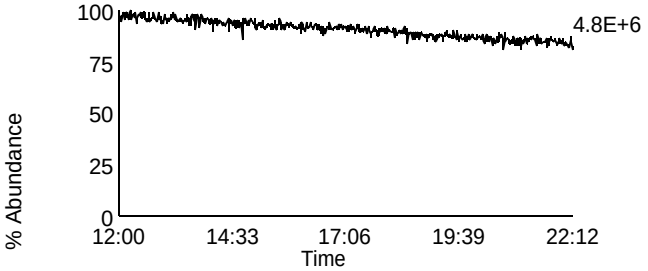
Data File: U131104A_08 G1 C11 - 333.9338
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G1 C14 - 375.8364
CAL CS1-7604-273 - SMT



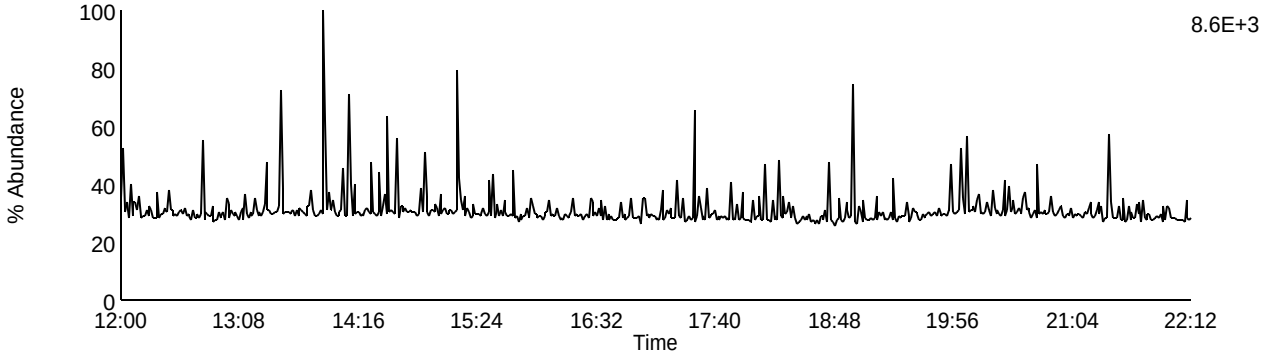
Data File: U131104A_08 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT



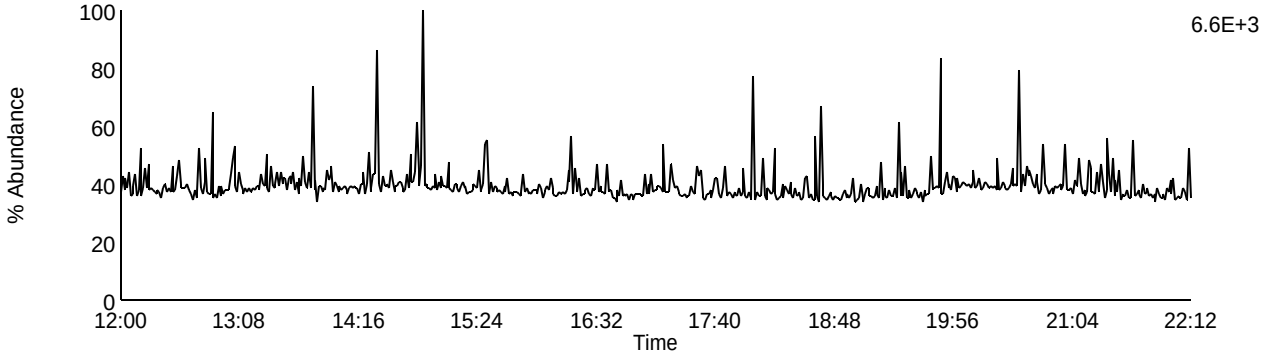
Homologue Group: Penta & Cleanup

Data File Name: U131104A_08	Lab Sample ID: CS1-7604-273
Date Acquired: 11/4/2013	Client Sample ID:
Sample Description: CAL CS1-7604-273 - SMT	Instrument: 10MSHR06 (U)

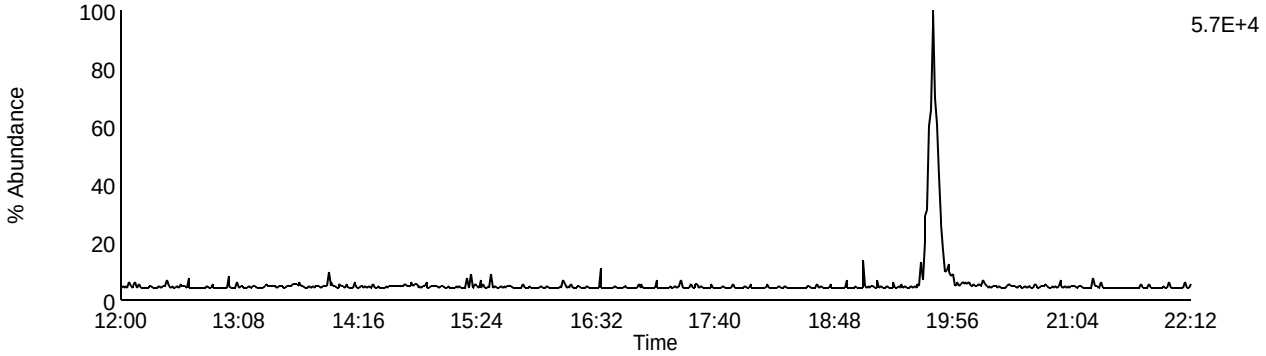
Data File: U131104A_08 G1 C12 - 339.8597
CAL CS1-7604-273 - SMT



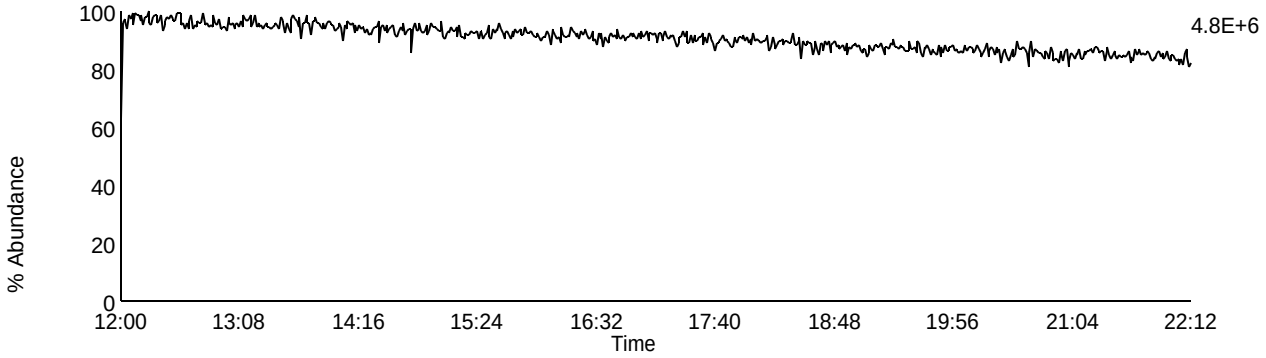
Data File: U131104A_08 G1 C13 - 341.8567
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G1 C9 - 327.8847
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G1 C5 - 318.9792
CAL CS1-7604-273 - SMT

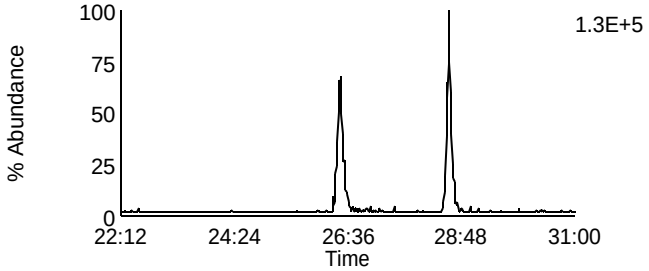


Homologue Group: Pentas

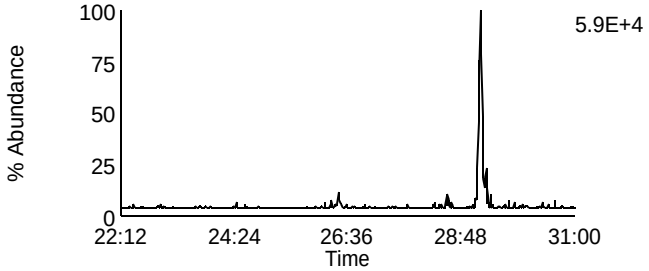
Data File Name: U131104A_08
Date Acquired: 11/4/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

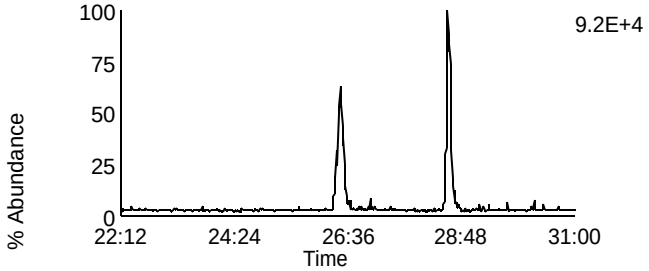
Data File: U131104A_08 G2 C1 - 339.8597
CAL CS1-7604-273 - SMT



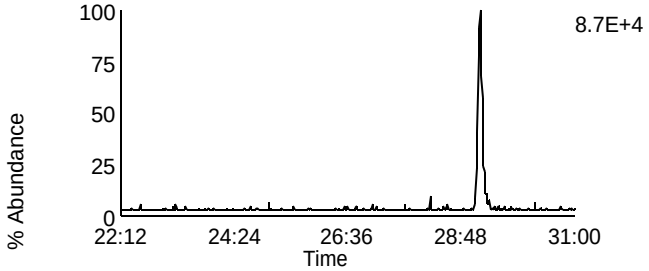
Data File: U131104A_08 G2 C4 - 353.8576
CAL CS1-7604-273 - SMT



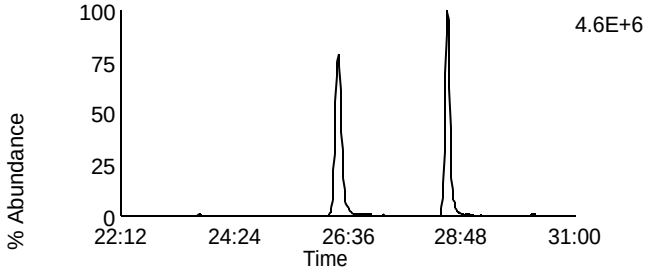
Data File: U131104A_08 G2 C2 - 341.8567
CAL CS1-7604-273 - SMT



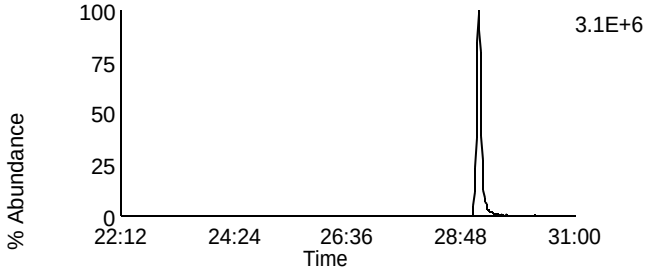
Data File: U131104A_08 G2 C8 - 355.8546
CAL CS1-7604-273 - SMT



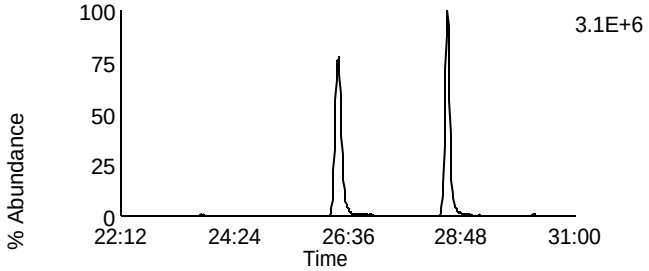
Data File: U131104A_08 G2 C3 - 351.8999
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G2 C10 - 367.8948
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G2 C5 - 353.8969
CAL CS1-7604-273 - SMT



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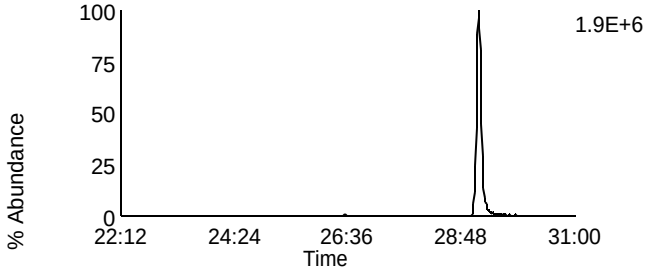
CAL CS1-7604-273 - SMT



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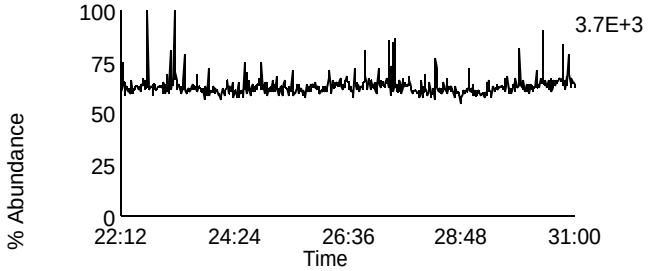
CAL CS1-7604-273 - SMT



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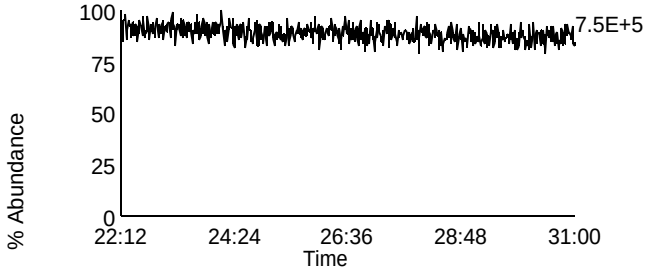
CAL CS1-7604-273 - SMT

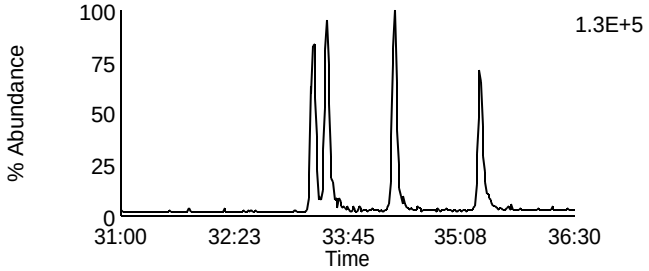


Homologue Group: Hexas

Data File Name: U131104A_08
Date Acquired: 11/4/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U131104A_08 G3 C1 - 373.8207
CAL CS1-7604-273 - SMT



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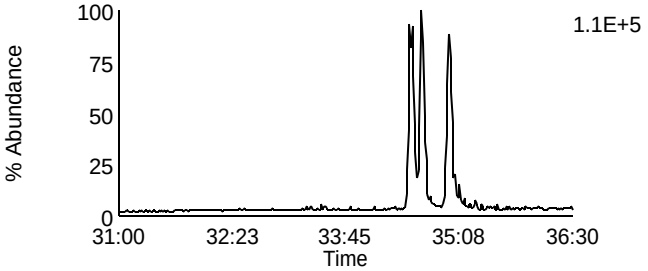
CAL CS1-7604-273 - SMT



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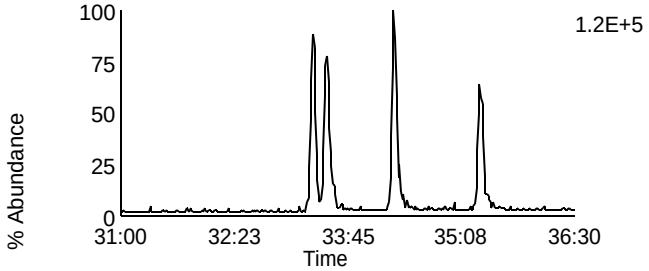
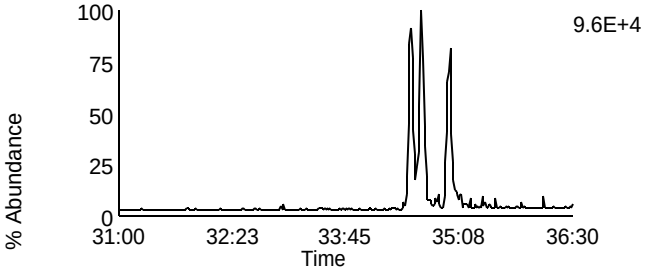
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G3 C8 - 391.8127
CAL CS1-7604-273 - SMT



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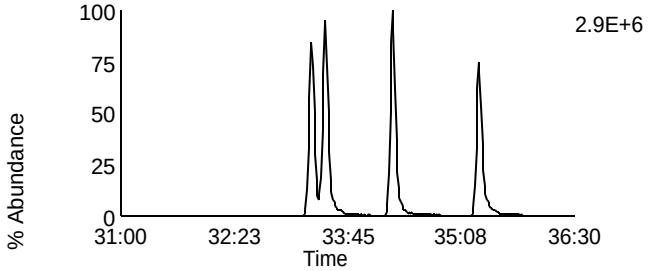
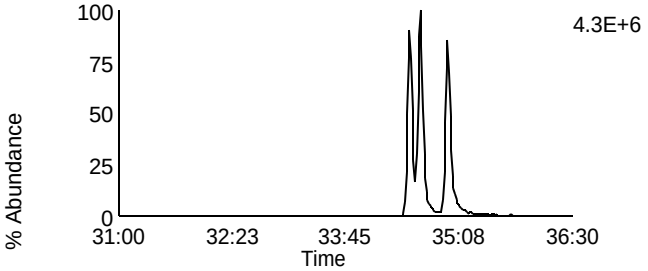
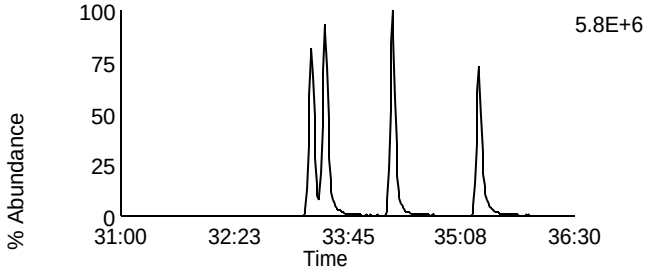
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G3 C9 - 401.8559
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G3 C6 - 385.861
CAL CS1-7604-273 - SMT



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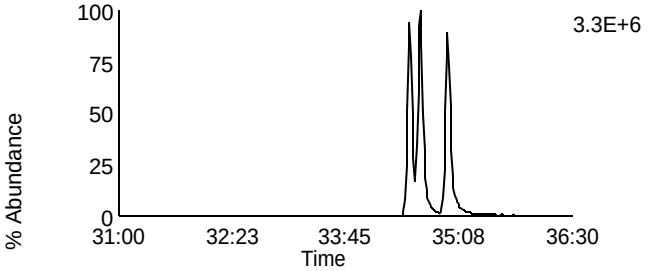
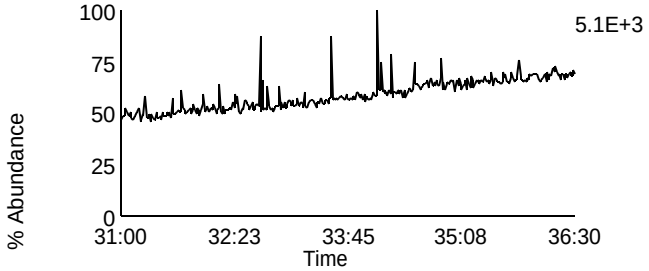
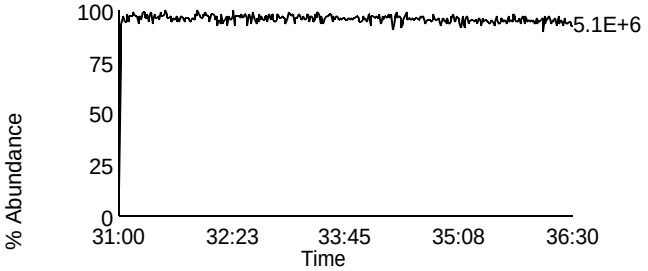
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G3 C11 - 445.7555
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G3 C3 - 380.976
CAL CS1-7604-273 - SMT

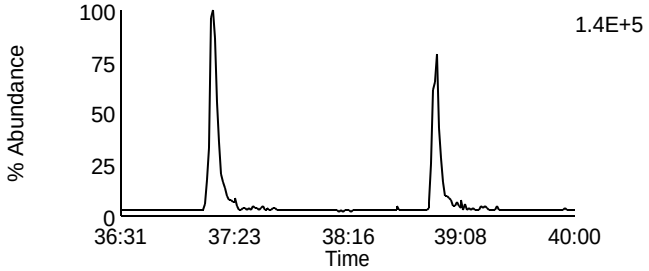


Homologue Group: Heptas

Data File Name: U131104A_08
Date Acquired: 11/4/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U131104A_08 G4 C3 - 407.7818
CAL CS1-7604-273 - SMT



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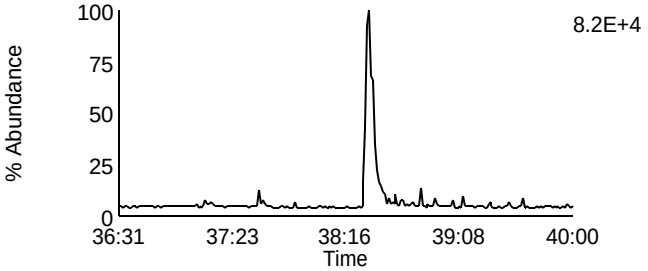
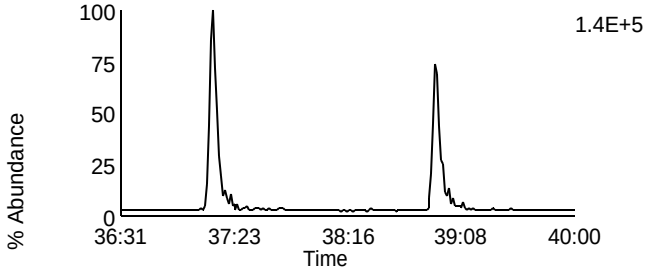
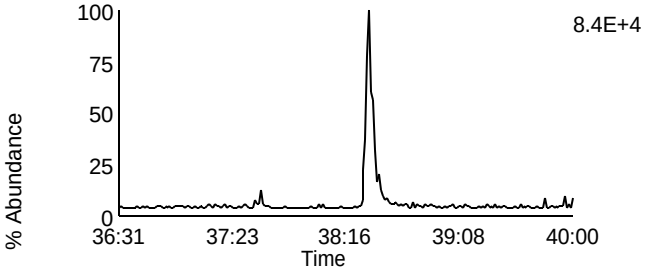
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G4 C4 - 409.7788
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G4 C9 - 425.7737
CAL CS1-7604-273 - SMT



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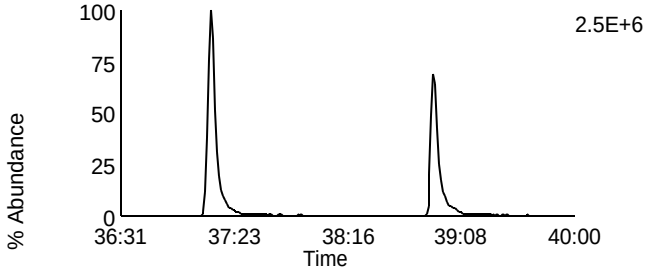
CAL CS1-7604-273 - SMT



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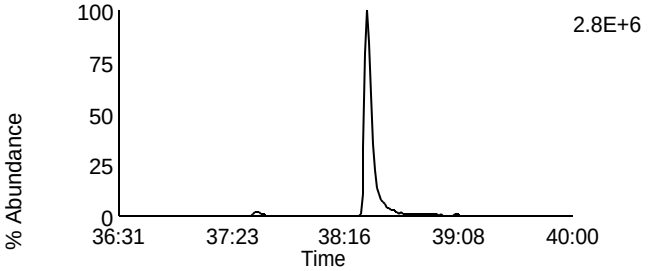
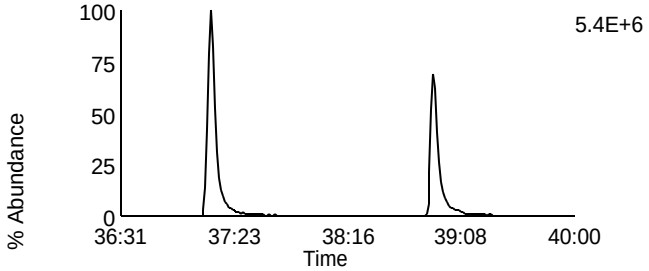
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G4 C7 - 419.822
CAL CS1-7604-273 - SMT



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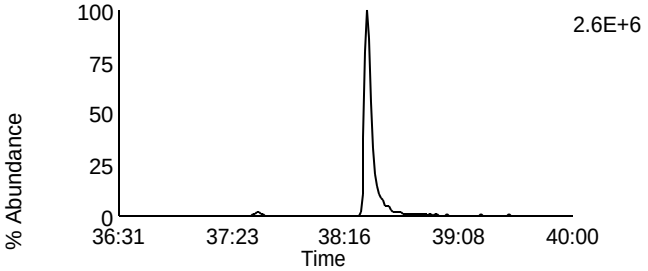
CAL CS1-7604-273 - SMT



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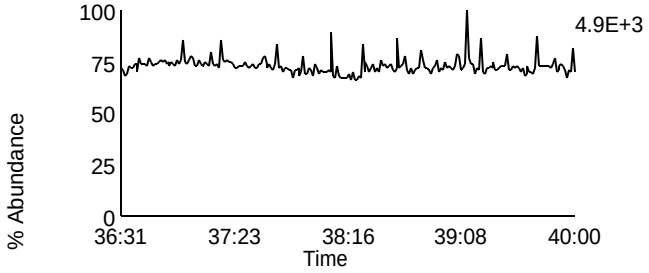
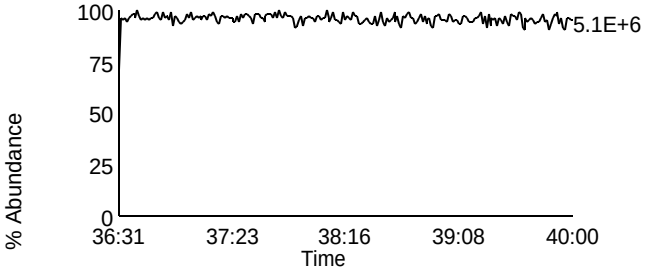
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G4 C1 - 380.976
CAL CS1-7604-273 - SMT

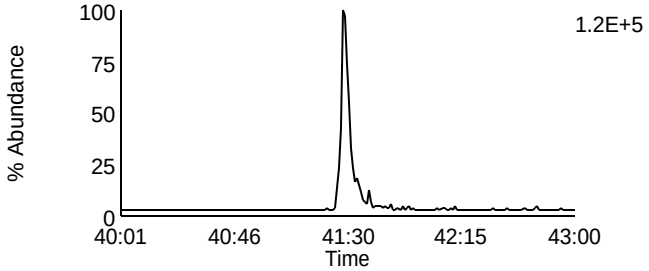


Homologue Group: Octas

Data File Name: U131104A_08
Date Acquired: 11/4/2013
Sample Description: CAL CS1-7604-273 - SMT

Lab Sample ID: CS1-7604-273
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U131104A_08 G5 C4 - 441.7428
CAL CS1-7604-273 - SMT



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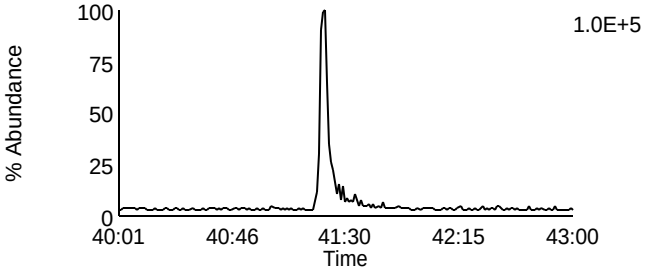
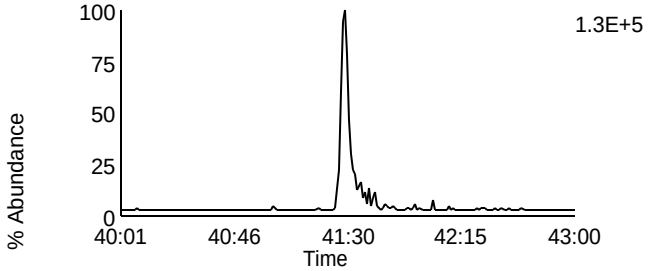
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G5 C5 - 443.7398
CAL CS1-7604-273 - SMT



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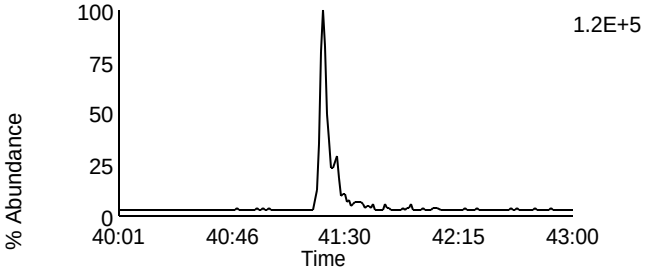
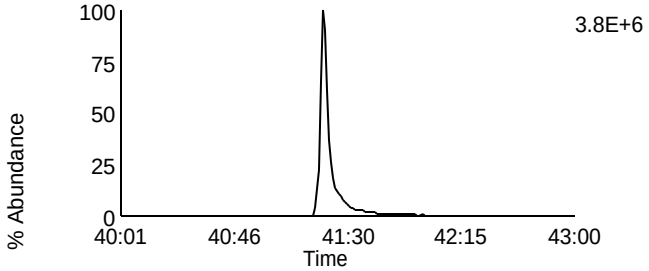
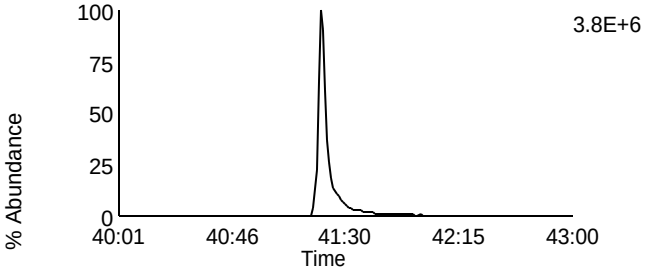
CAL CS1-7604-273 - SMT



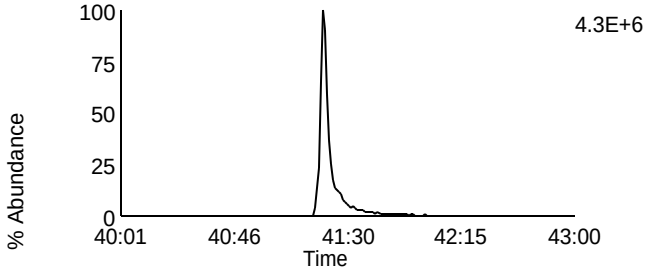
Data File: U131104A_08 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G5 C11 - 469.7779
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G5 C12 - 471.7749
CAL CS1-7604-273 - SMT



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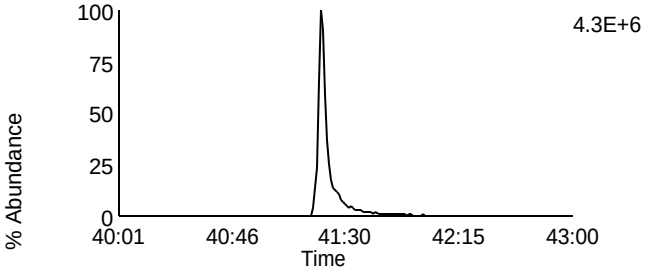
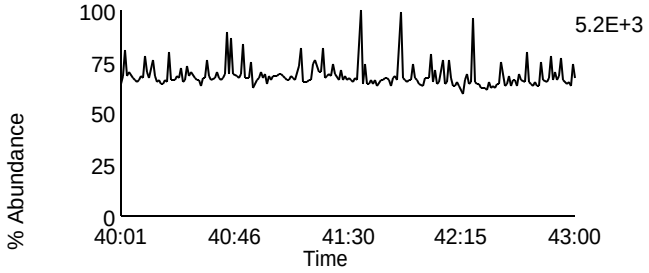
CAL CS1-7604-273 - SMT



Data File: U131104A_08 G5 C13 - 513.6775
CAL CS1-7604-273 - SMT



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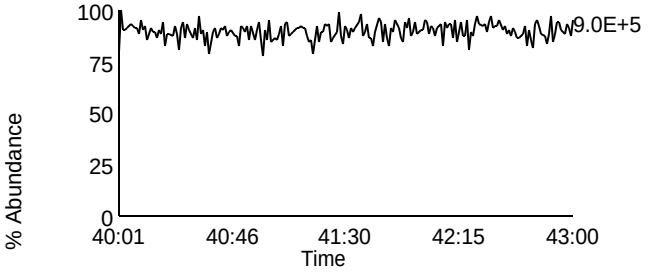
CAL CS1-7604-273 - SMT

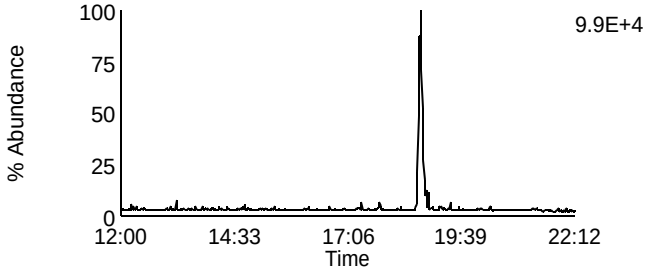


Homologue Group: Tetras

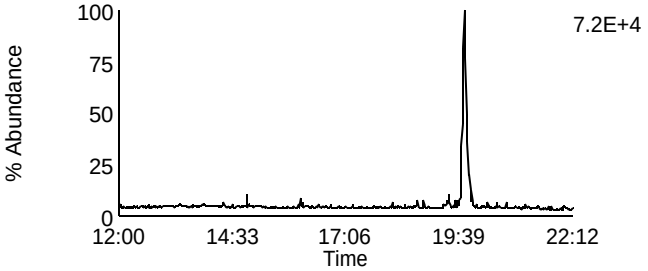
Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

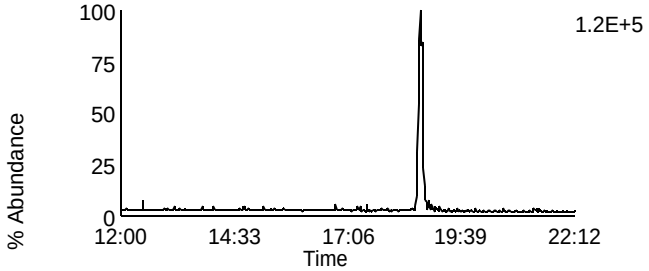
Data File: U131104A_02 G1 C1 - 303.9016
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G1 C7 - 319.8965
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G1 C2 - 305.8987
CAL CS2-7604-276 - SMT



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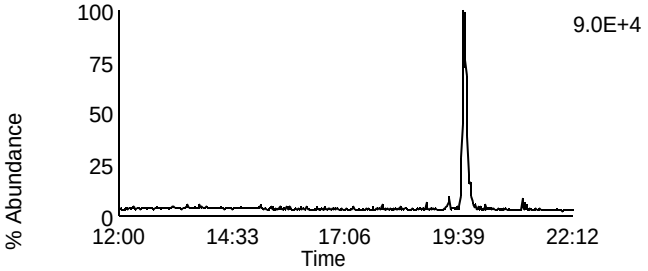
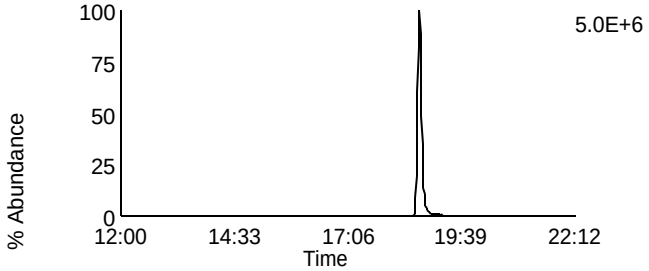
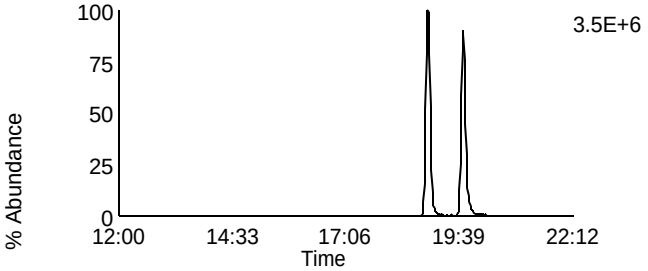
CAL CS2-7604-276 - SMT



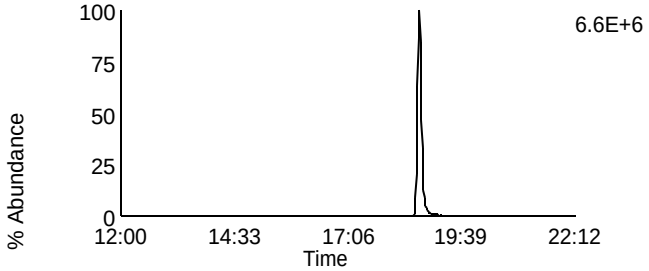
Data File: U131104A_02 G1 C3 - 315.9418
CAL CS2-7604-276 - SMT



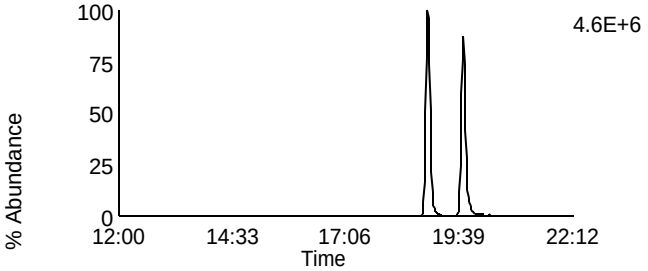
Data File: U131104A_02 G1 C10 - 331.9367
CAL CS2-7604-276 - SMT



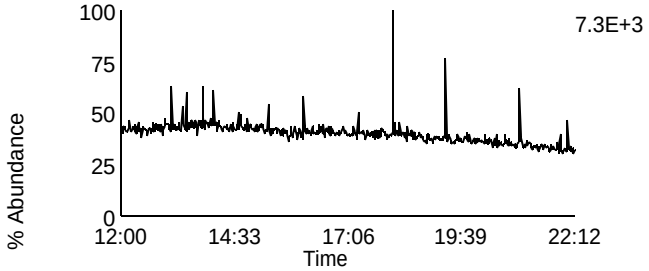
Data File: U131104A_02 G1 C4 - 317.9389
CAL CS2-7604-276 - SMT



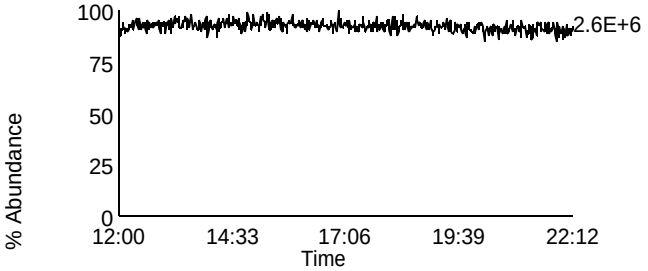
Data File: U131104A_02 G1 C11 - 333.9338
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G1 C14 - 375.8364
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G1 C5 - 318.9792
CAL CS2-7604-276 - SMT

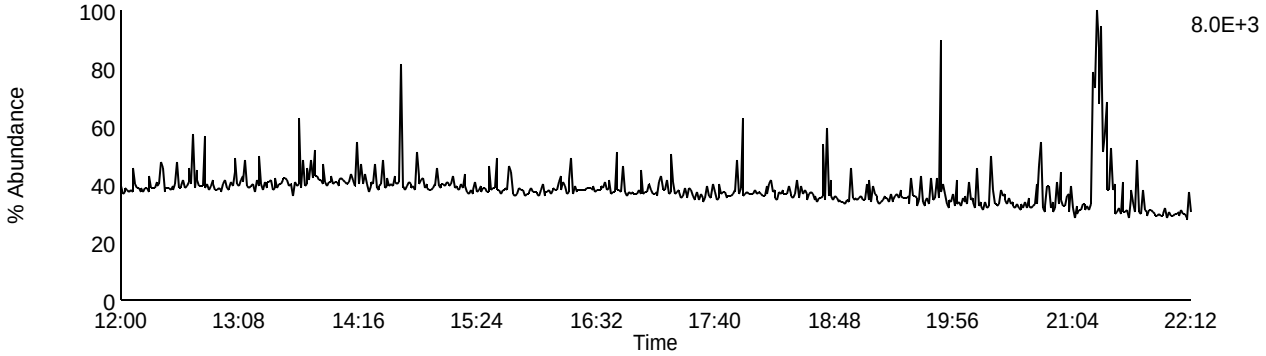


Homologue Group: Penta & Cleanup

Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

Data File: U131104A_02 G1 C12 - 339.8597
CAL CS2-7604-276 - SMT



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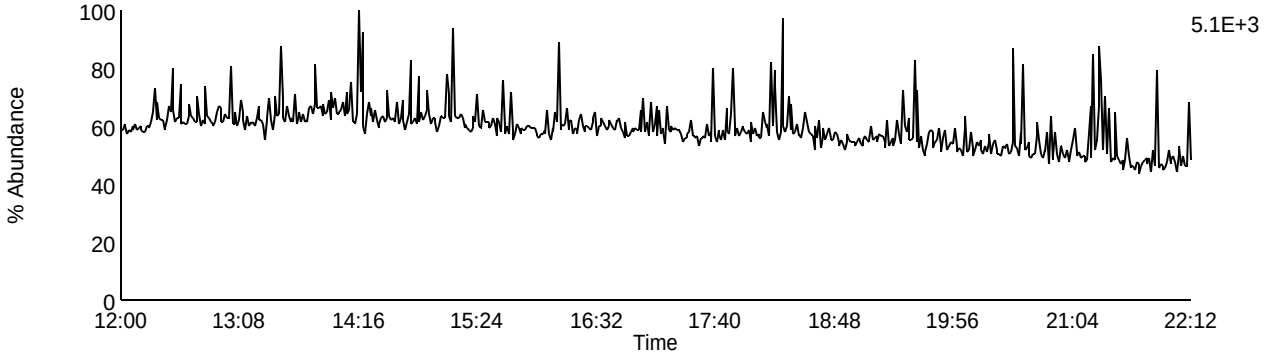
CAL CS2-7604-276 - SMT



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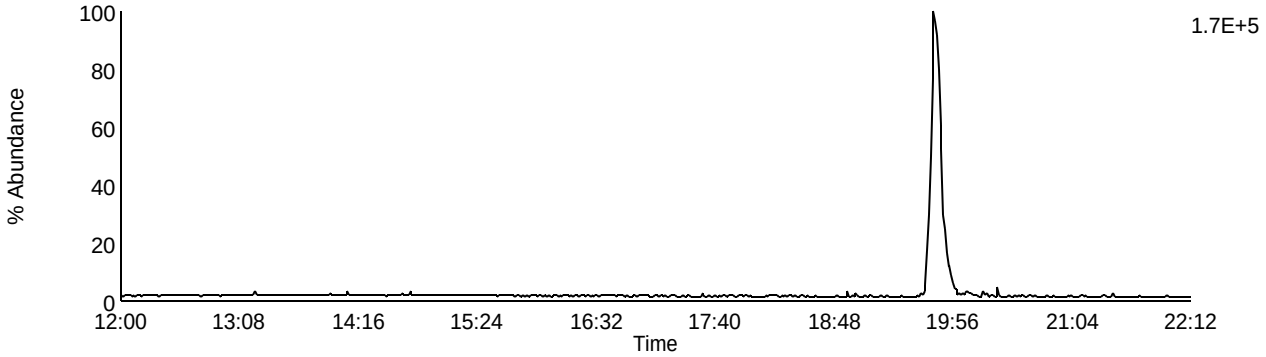
CAL CS2-7604-276 - SMT



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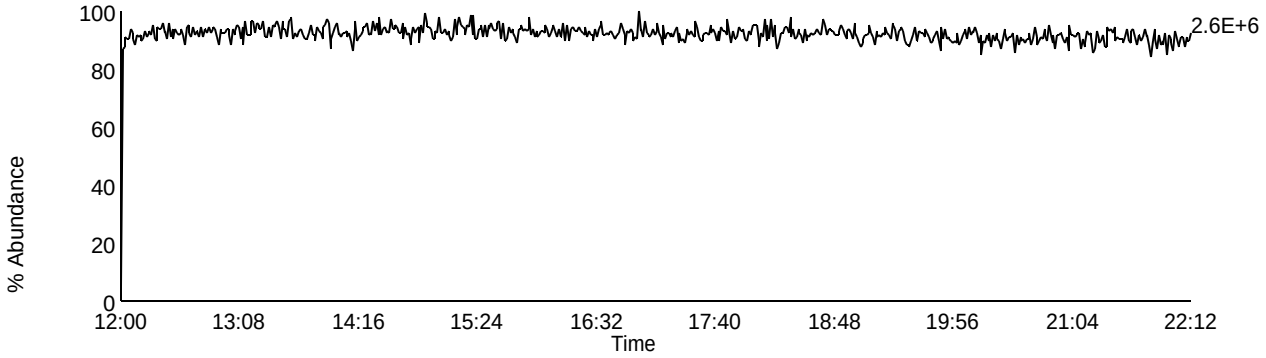
CAL CS2-7604-276 - SMT

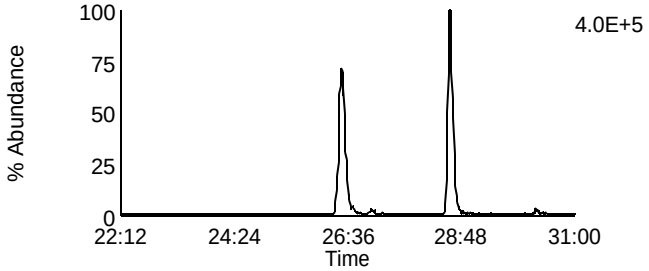


Homologue Group: Pentas

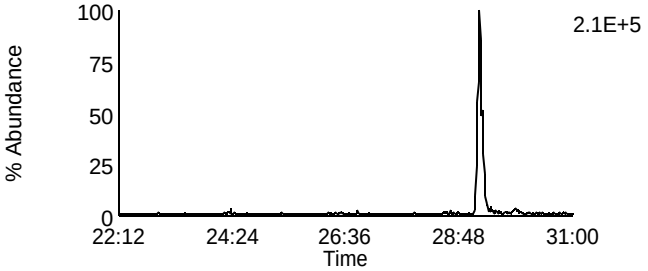
Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

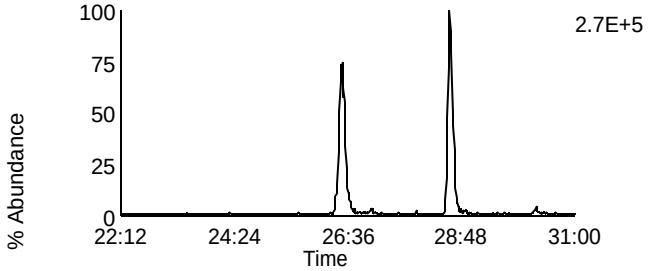
Data File: U131104A_02 G2 C1 - 339.8597
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G2 C4 - 353.8576
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G2 C2 - 341.8567
CAL CS2-7604-276 - SMT



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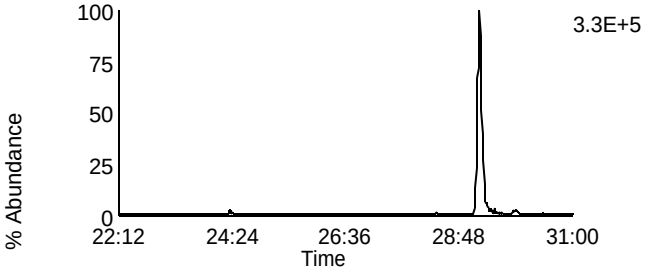
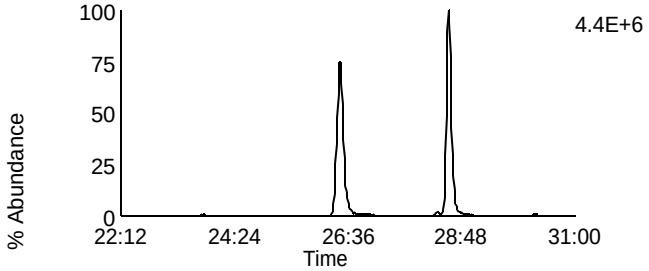
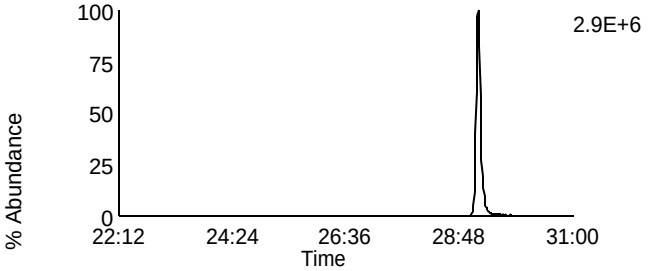
CAL CS2-7604-276 - SMT



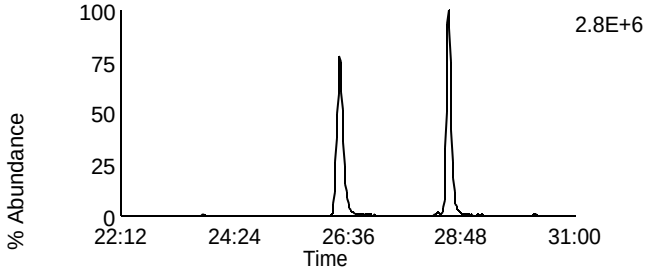
Data File: U131104A_02 G2 C3 - 351.8999
CAL CS2-7604-276 - SMT



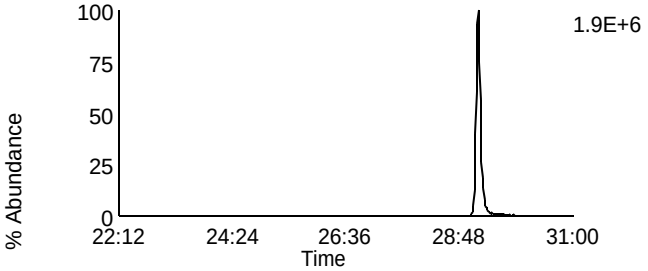
Data File: U131104A_02 G2 C10 - 367.8948
CAL CS2-7604-276 - SMT



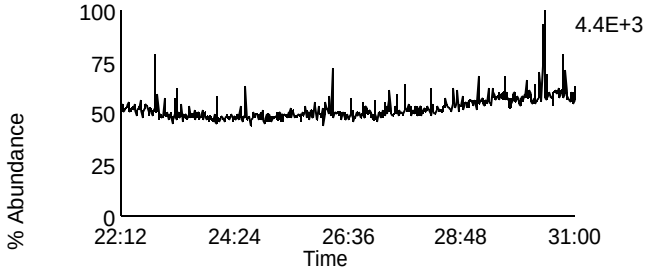
Data File: U131104A_02 G2 C5 - 353.8969
CAL CS2-7604-276 - SMT



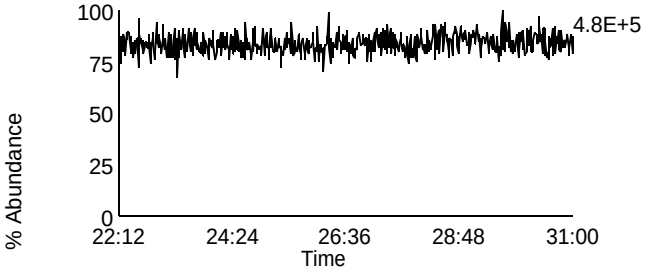
Data File: U131104A_02 G2 C11 - 369.8918
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G2 C12 - 409.7974
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G2 C6 - 354.9792
CAL CS2-7604-276 - SMT

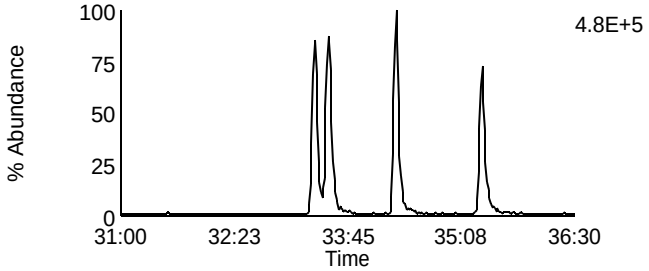


Homologue Group: Hexas

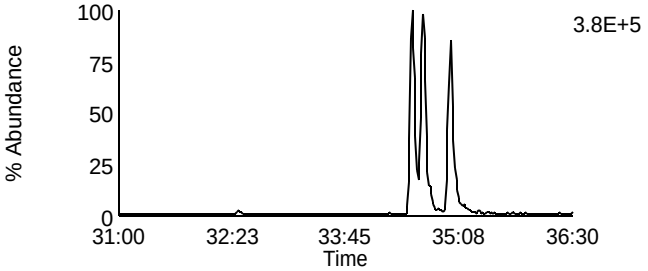
Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

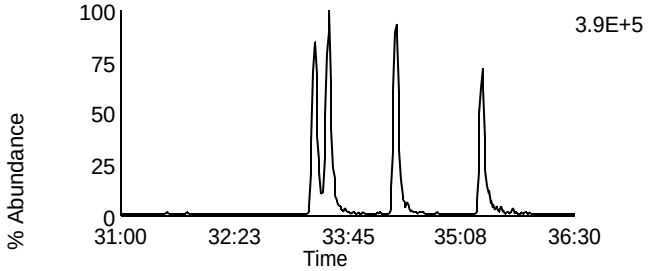
Data File: U131104A_02 G3 C1 - 373.8207
CAL CS2-7604-276 - SMT



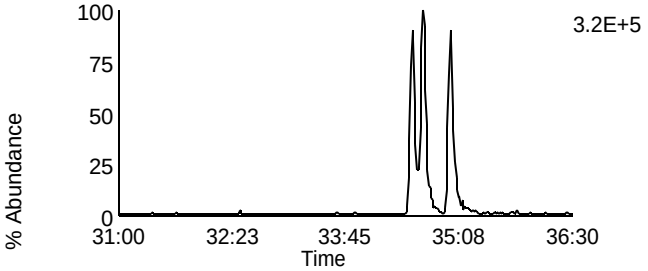
Data File: U131104A_02 G3 C7 - 389.8156
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G3 C2 - 375.8178
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G3 C8 - 391.8127
CAL CS2-7604-276 - SMT



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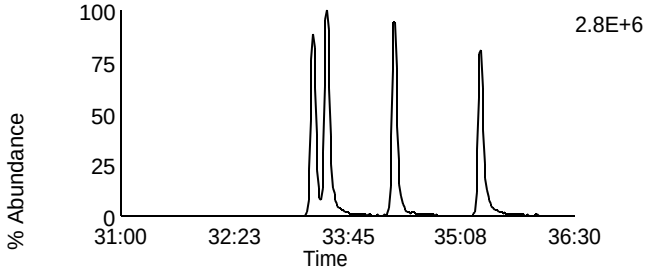
CAL CS2-7604-276 - SMT



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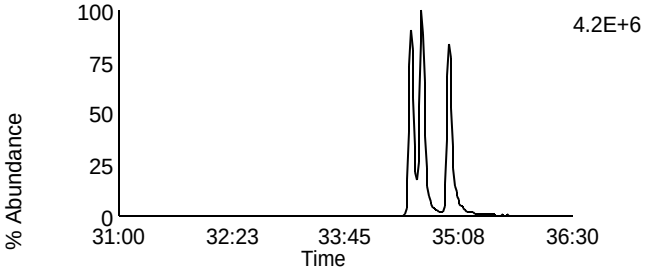
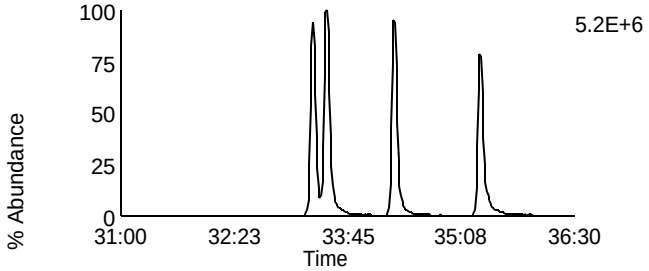
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G3 C6 - 385.861
CAL CS2-7604-276 - SMT



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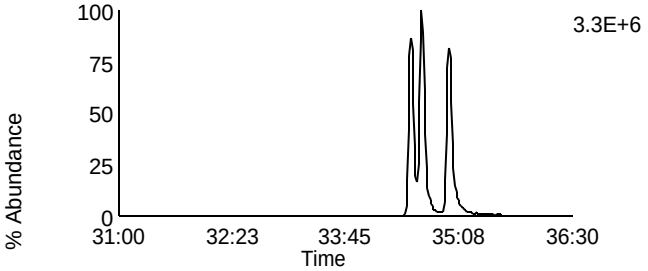
CAL CS2-7604-276 - SMT



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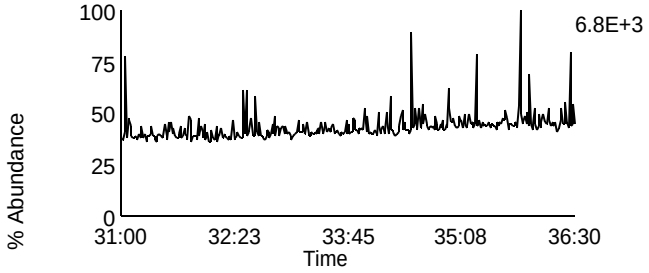
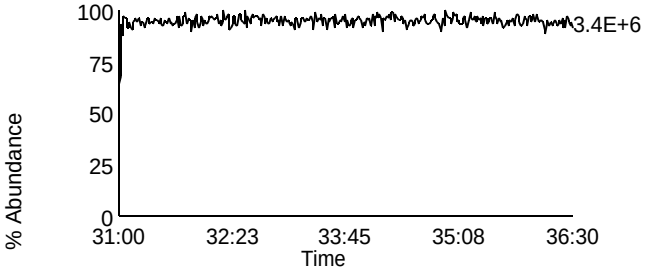
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G3 C3 - 380.976
CAL CS2-7604-276 - SMT

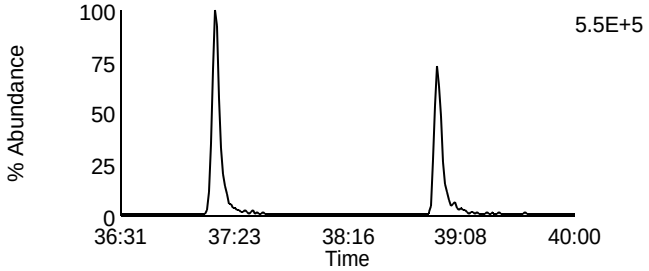


Homologue Group: Heptas

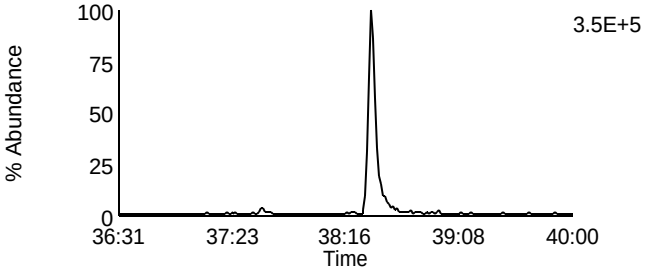
Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

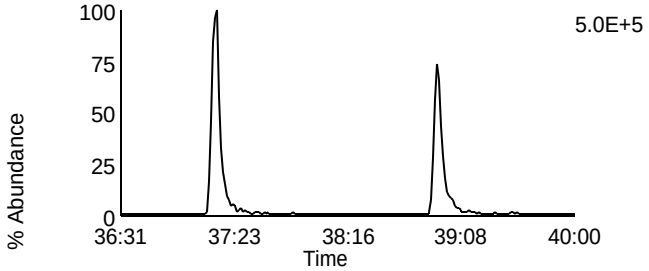
Data File: U131104A_02 G4 C3 - 407.7818
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G4 C8 - 423.7767
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G4 C4 - 409.7788
CAL CS2-7604-276 - SMT



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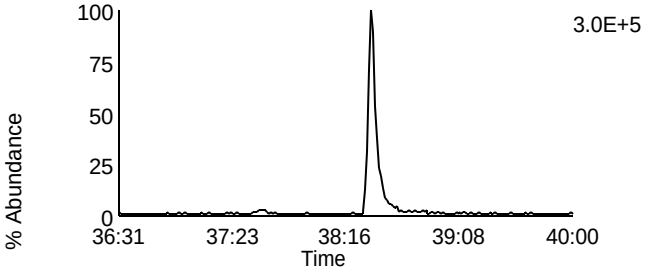
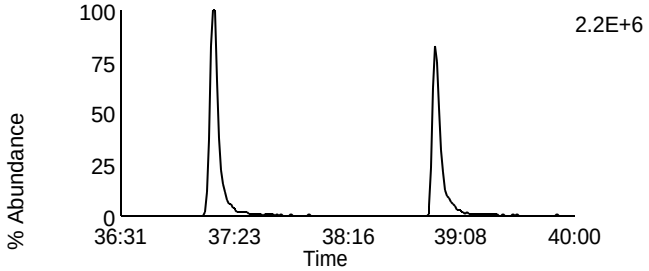
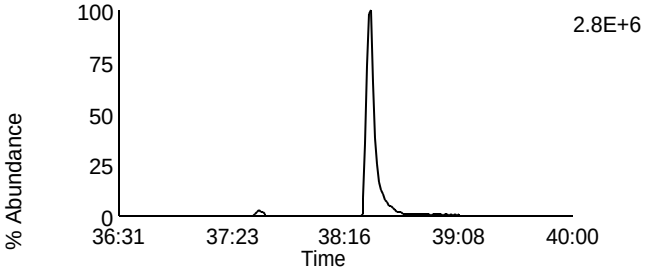
CAL CS2-7604-276 - SMT



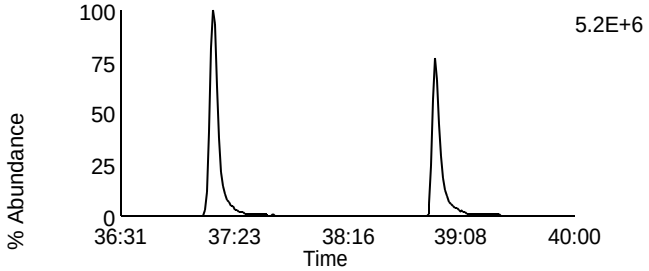
Data File: U131104A_02 G4 C6 - 417.825
CAL CS2-7604-276 - SMT



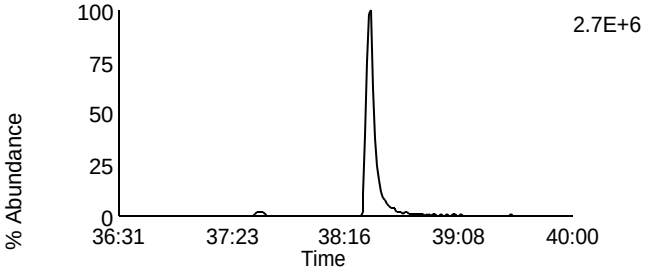
Data File: U131104A_02 G4 C11 - 435.8169
CAL CS2-7604-276 - SMT



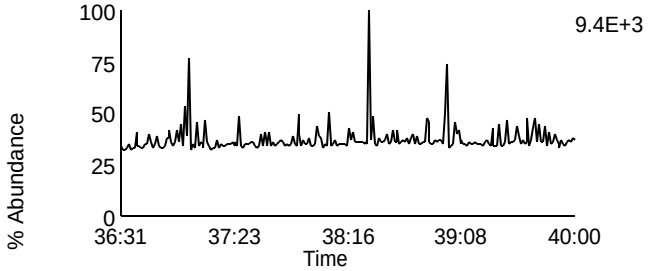
Data File: U131104A_02 G4 C7 - 419.822
CAL CS2-7604-276 - SMT



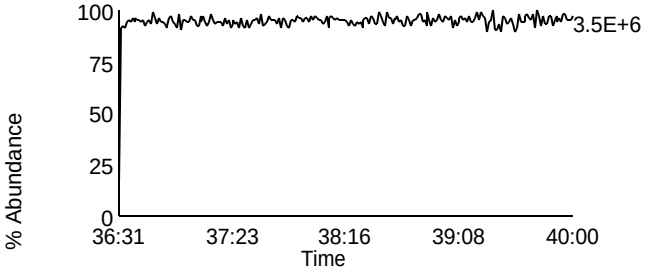
Data File: U131104A_02 G4 C12 - 437.814
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G4 C13 - 479.7165
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G4 C1 - 380.976
CAL CS2-7604-276 - SMT

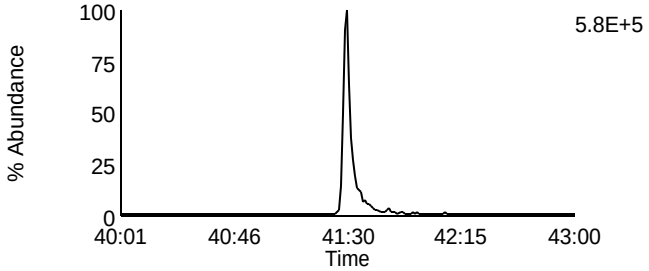


Homologue Group: Octas

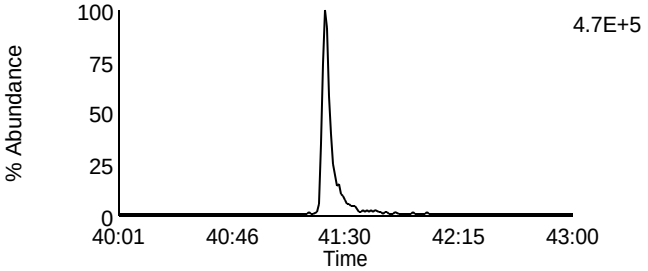
Data File Name: U131104A_02
Date Acquired: 11/4/2013
Sample Description: CAL CS2-7604-276 - SMT

Lab Sample ID: CS2-7604-276
Client Sample ID:
Instrument: 10MSHR06 (U)

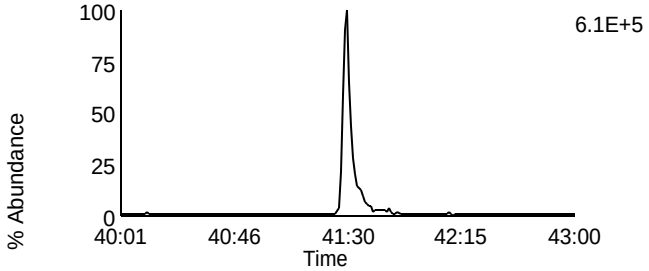
Data File: U131104A_02 G5 C4 - 441.7428
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G5 C8 - 457.7377
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G5 C5 - 443.7398
CAL CS2-7604-276 - SMT



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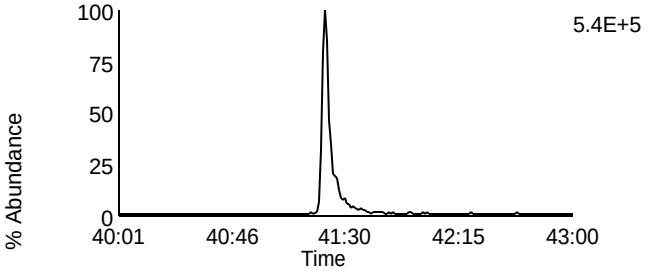
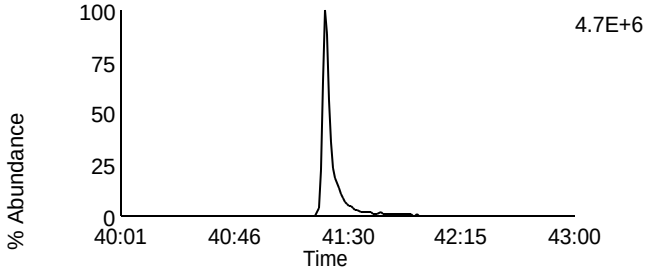
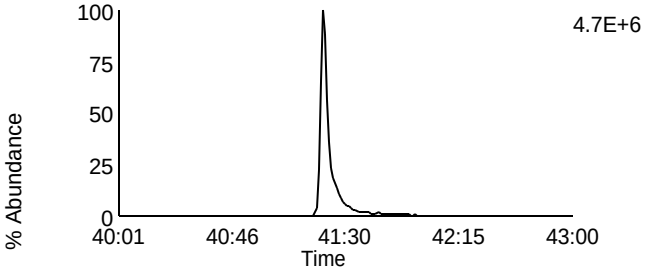
CAL CS2-7604-276 - SMT



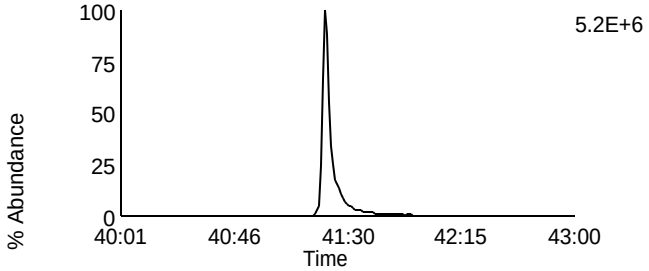
Data File: U131104A_02 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



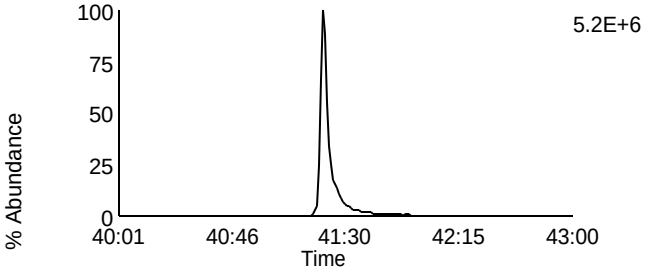
Data File: U131104A_02 G5 C11 - 469.7779
CAL CS2-7604-276 - SMT



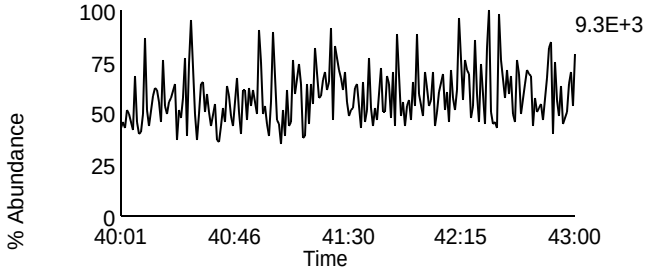
Data File: U131104A_02 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



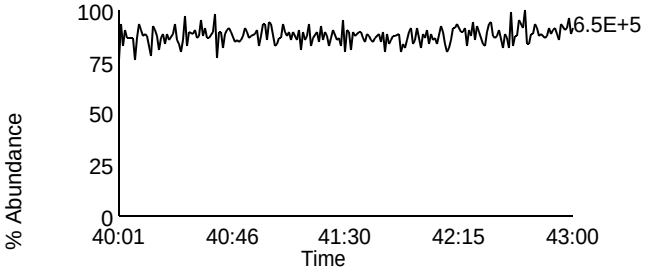
Data File: U131104A_02 G5 C12 - 471.7749
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G5 C13 - 513.6775
CAL CS2-7604-276 - SMT



Data File: U131104A_02 G5 C2 - 430.9728
CAL CS2-7604-276 - SMT

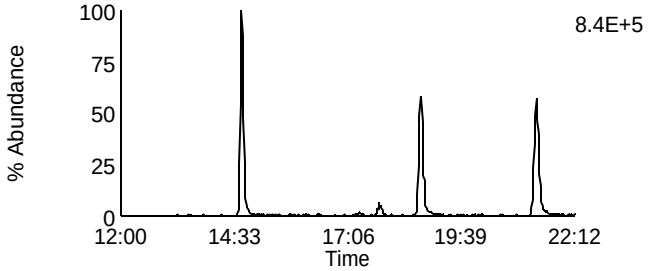


Homologue Group: Tetras

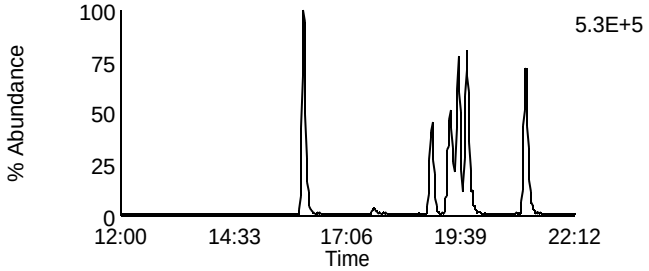
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

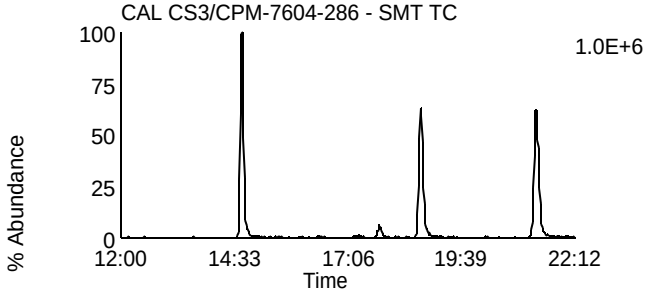
Data File: U131104A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT TC



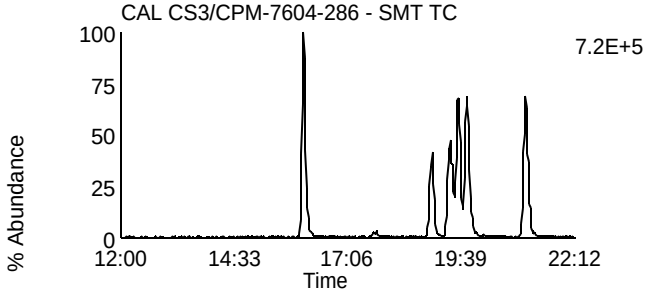
Data File: U131104A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT TC



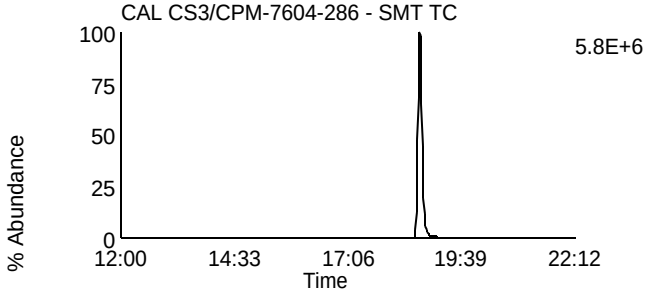
Data File: U131104A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT TC



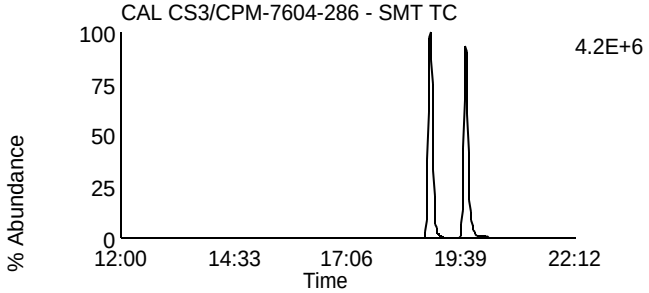
Data File: U131104A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT TC



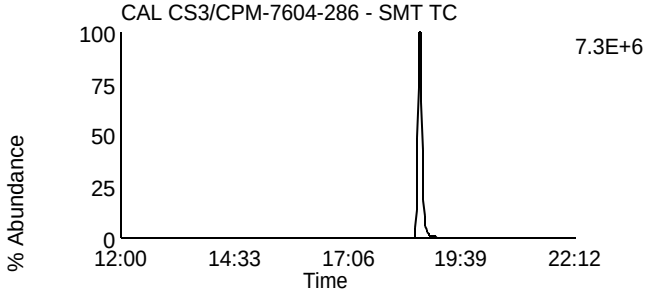
Data File: U131104A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT TC



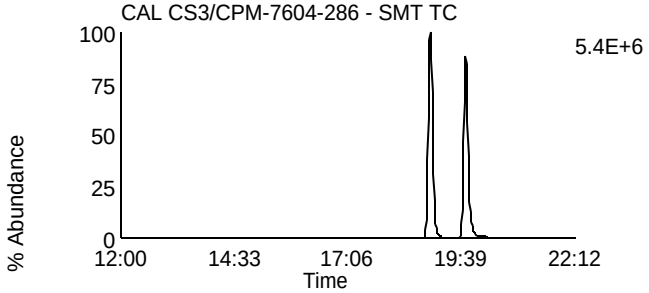
Data File: U131104A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT TC



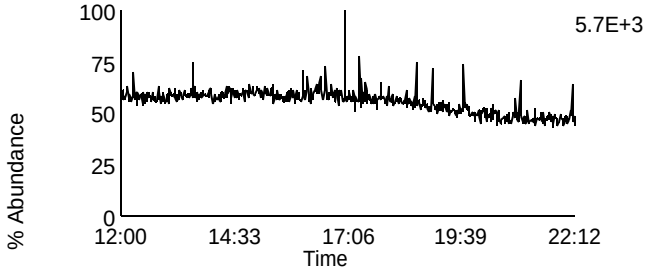
Data File: U131104A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT TC



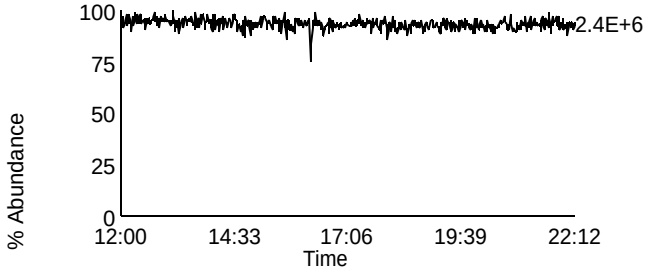
Data File: U131104A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT TC

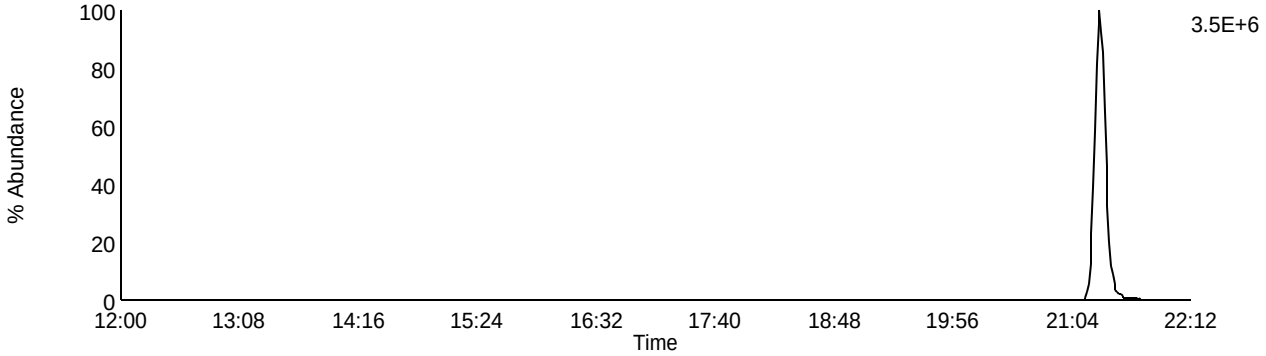


Homologue Group: Penta & Cleanup

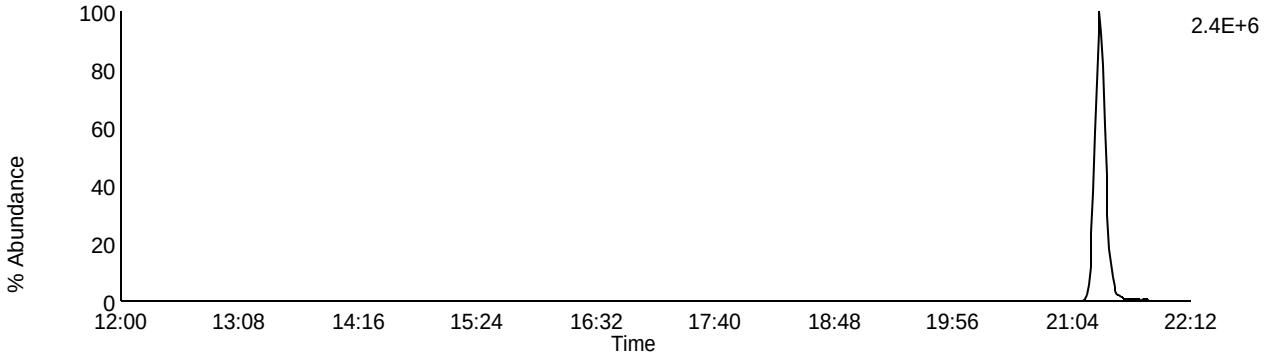
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

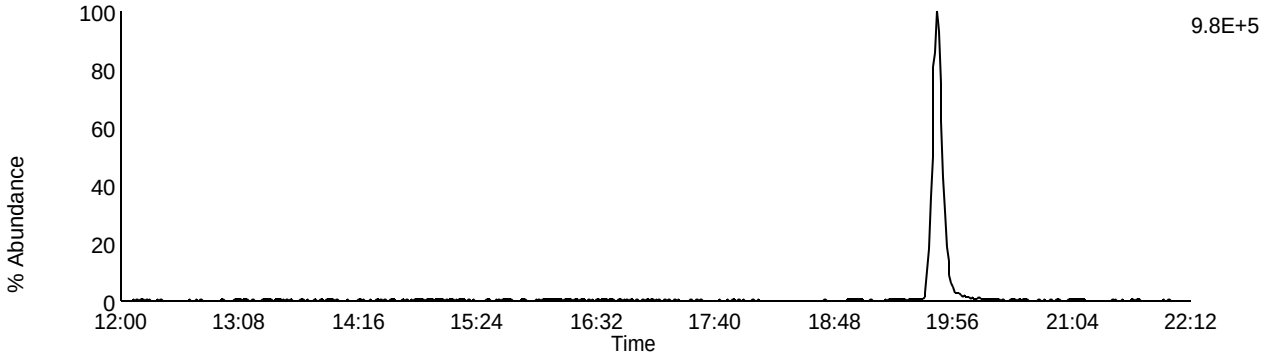
Data File: U131104A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT TC



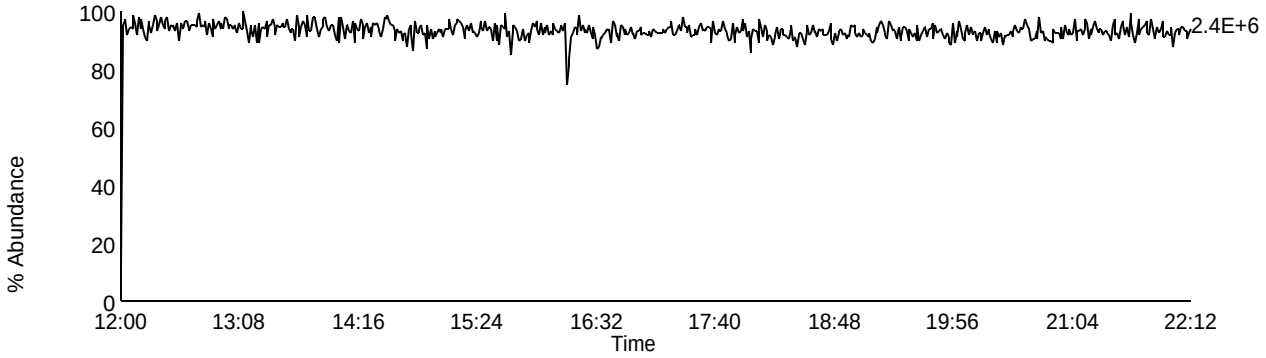
Data File: U131104A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT TC

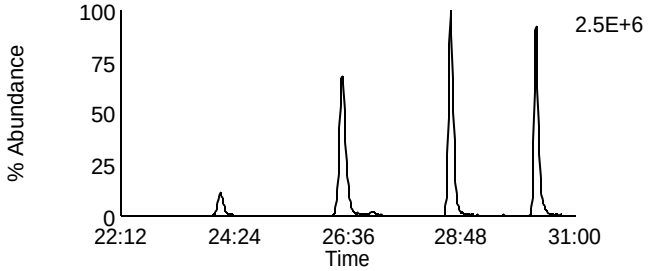


Homologue Group: Pentas

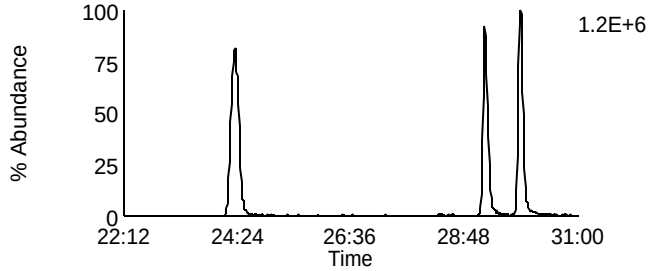
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

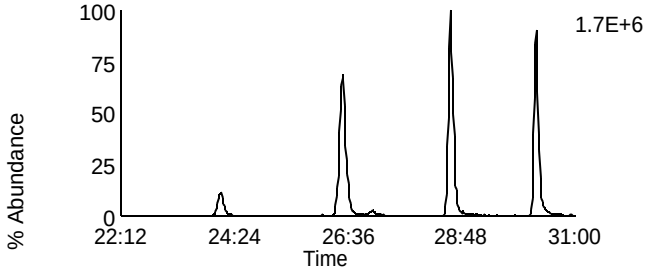
Data File: U131104A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT TC



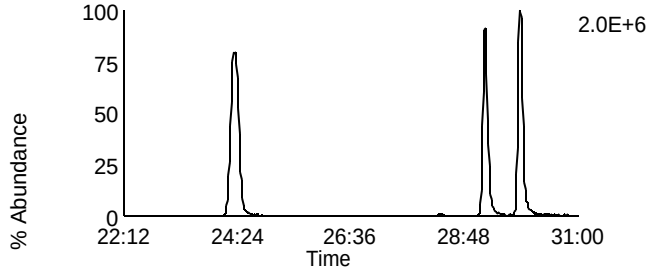
Data File: U131104A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT TC



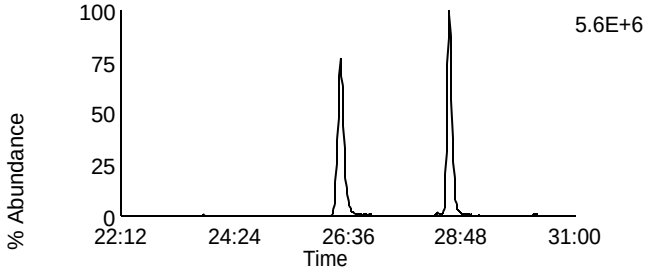
Data File: U131104A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT TC



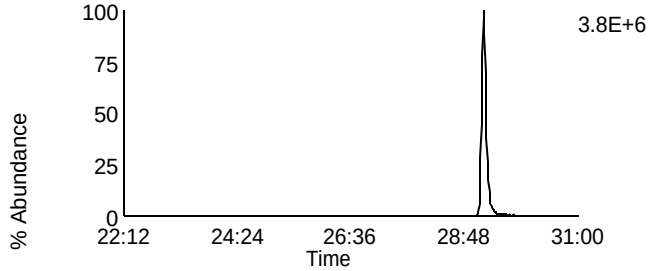
Data File: U131104A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT TC



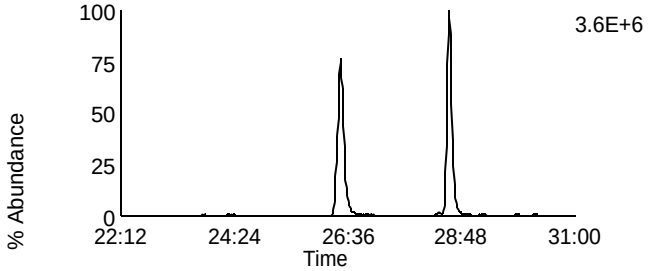
Data File: U131104A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT TC



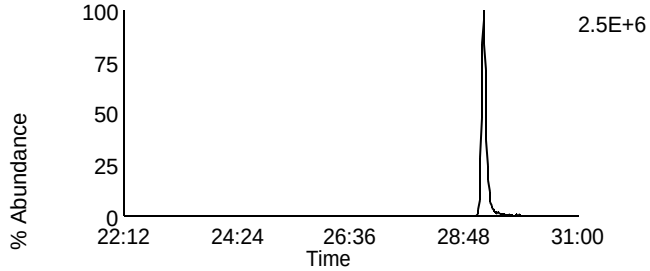
Data File: U131104A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT TC



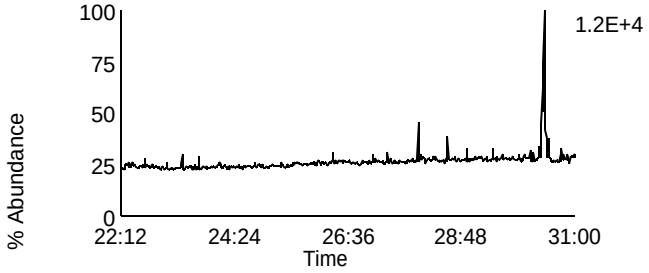
Data File: U131104A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT TC



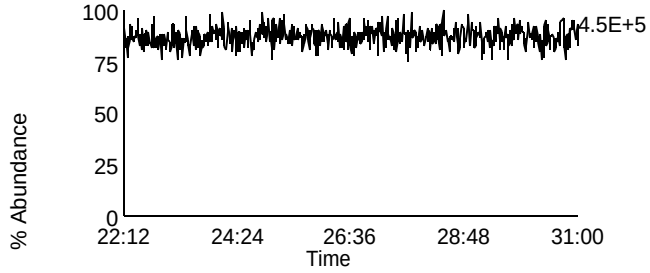
Data File: U131104A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT TC

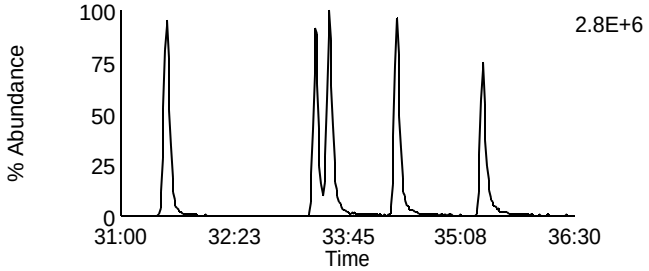


Homologue Group: Hexas

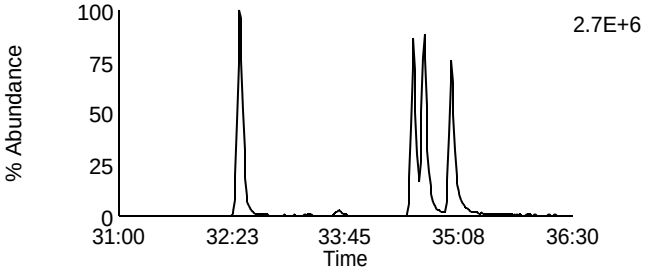
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

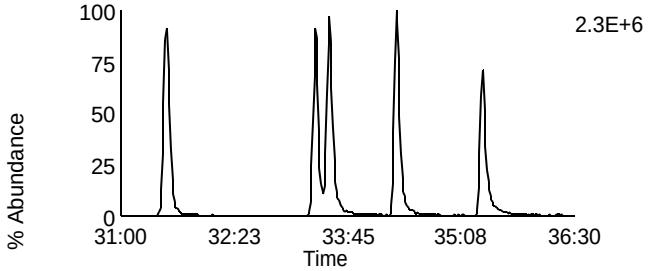
Data File: U131104A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT TC



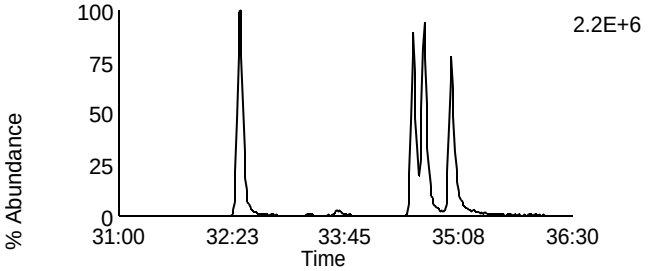
Data File: U131104A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT TC



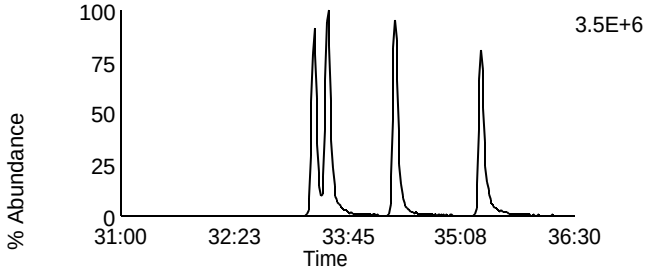
Data File: U131104A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT TC



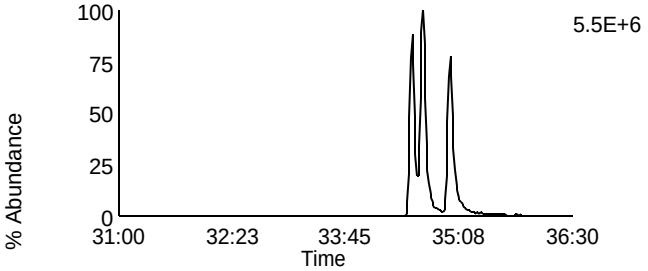
Data File: U131104A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT TC



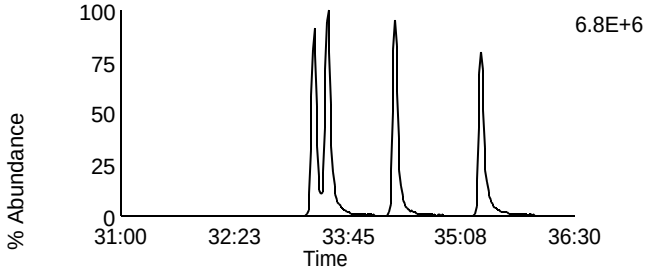
Data File: U131104A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT TC



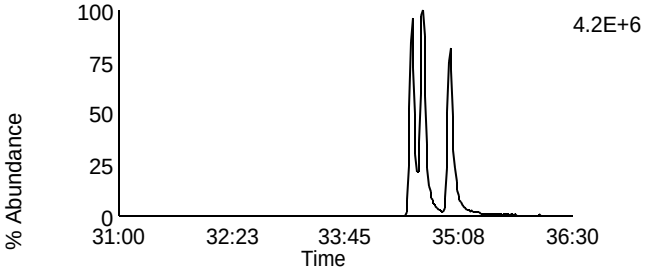
Data File: U131104A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT TC



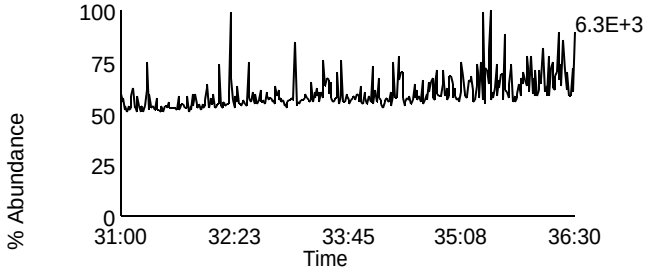
Data File: U131104A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT TC



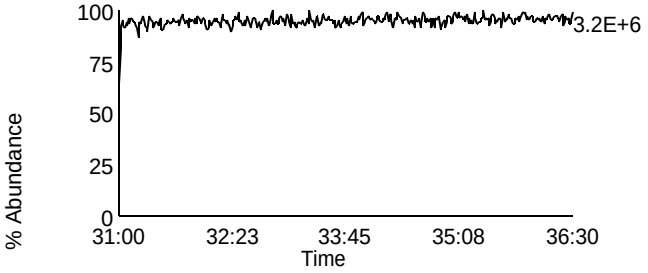
Data File: U131104A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT TC

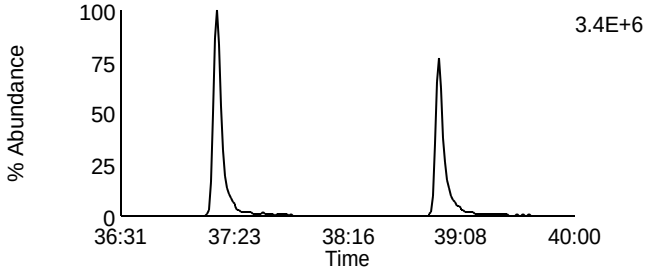


Homologue Group: Heptas

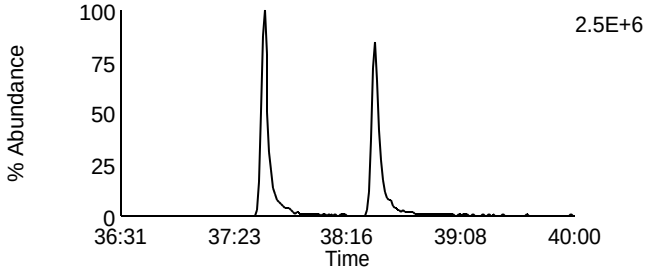
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

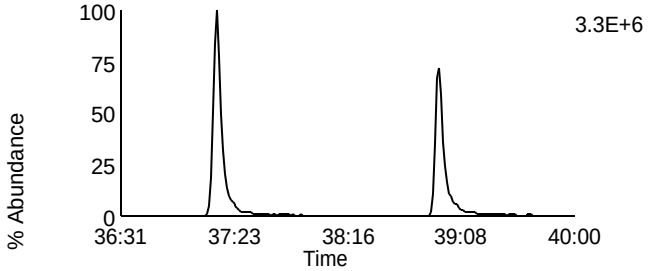
Data File: U131104A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT TC



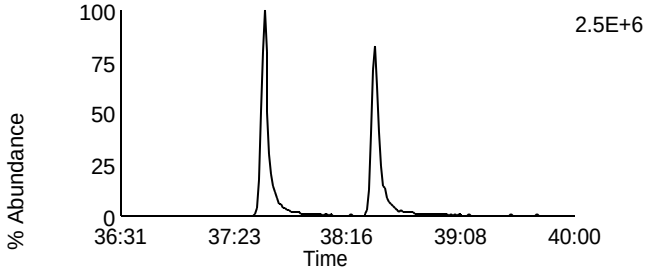
Data File: U131104A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT TC



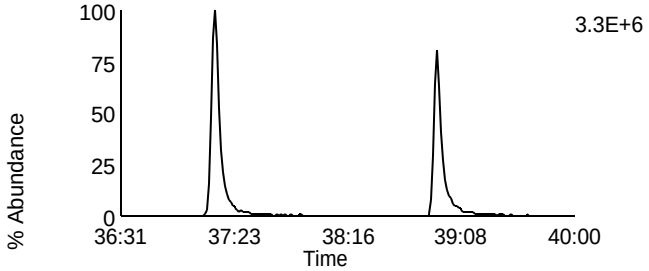
Data File: U131104A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT TC



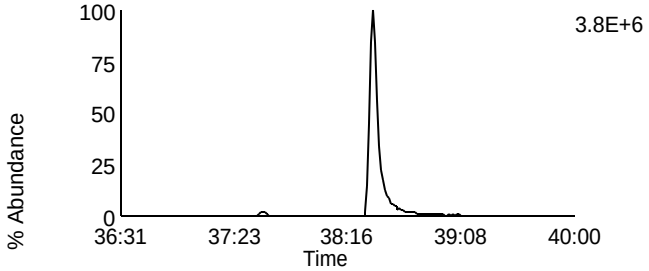
Data File: U131104A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT TC



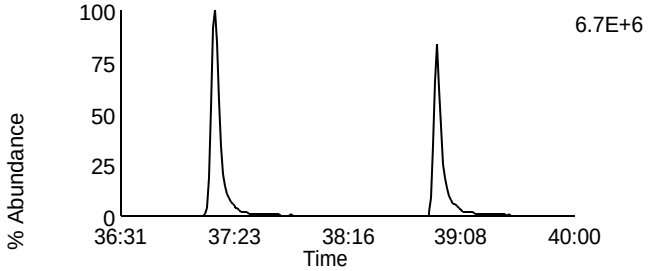
Data File: U131104A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT TC



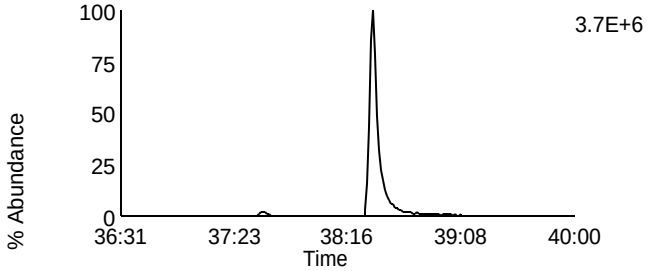
Data File: U131104A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT TC



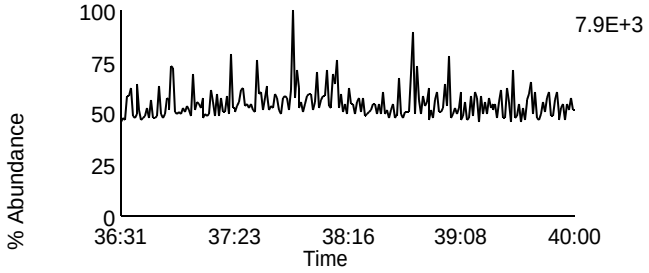
Data File: U131104A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT TC



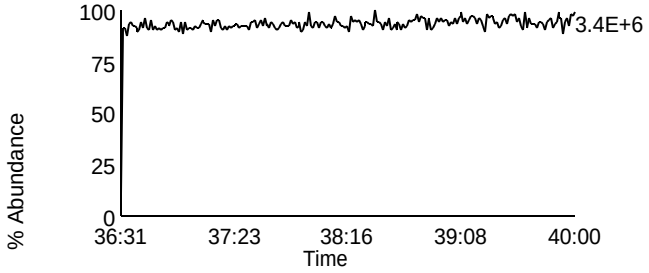
Data File: U131104A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT TC

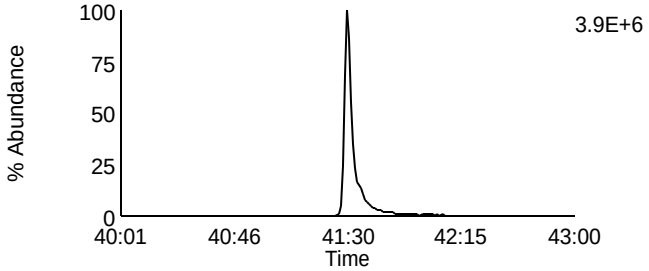


Homologue Group: Octas

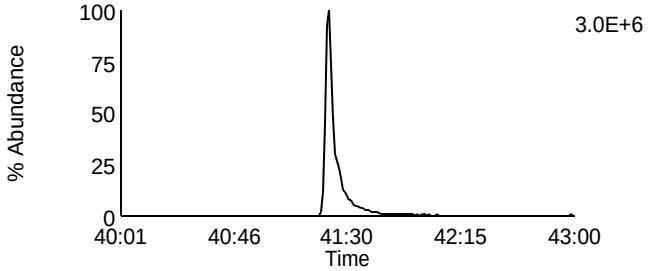
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

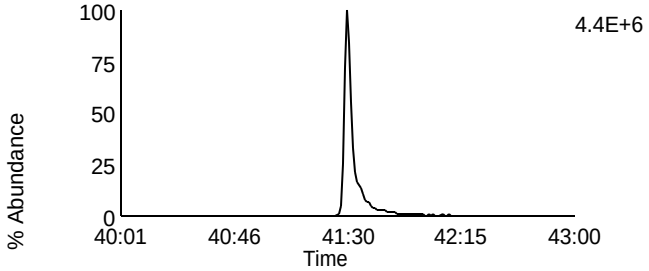
Data File: U131104A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT TC



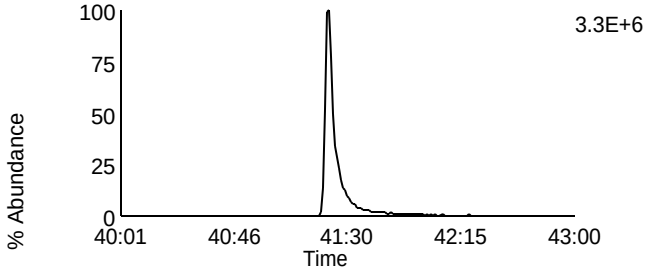
Data File: U131104A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT TC



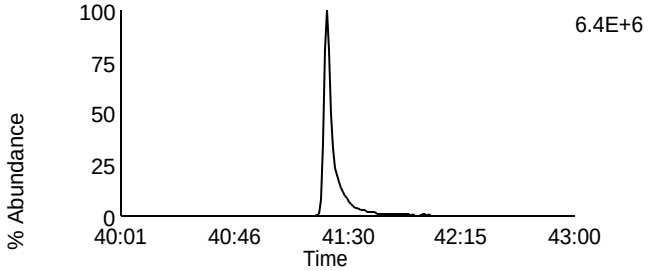
Data File: U131104A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT TC



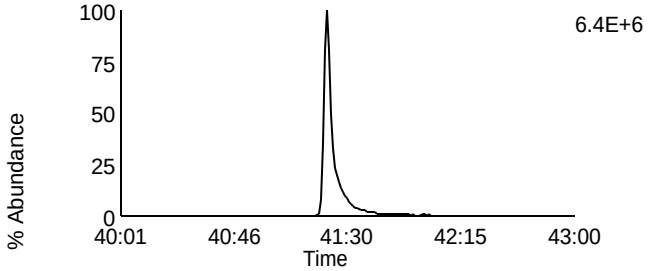
Data File: U131104A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT TC



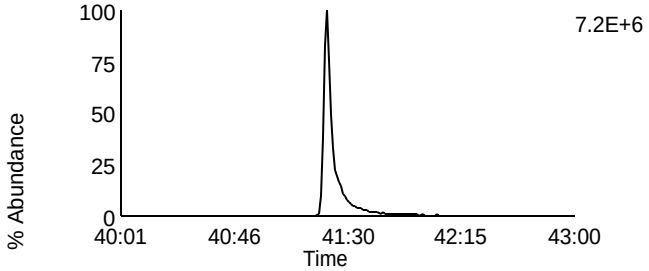
Data File: U131104A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT TC



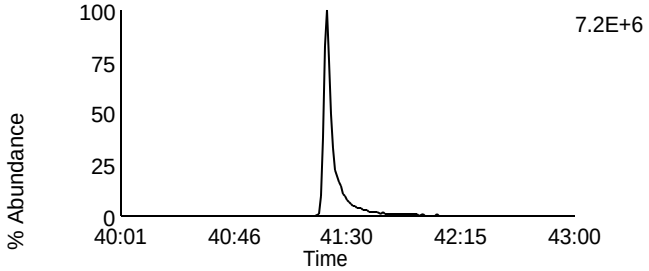
Data File: U131104A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT TC



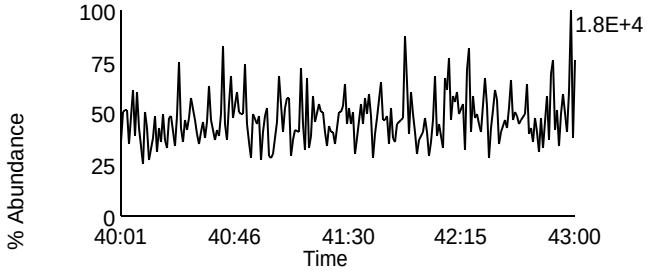
Data File: U131104A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT TC



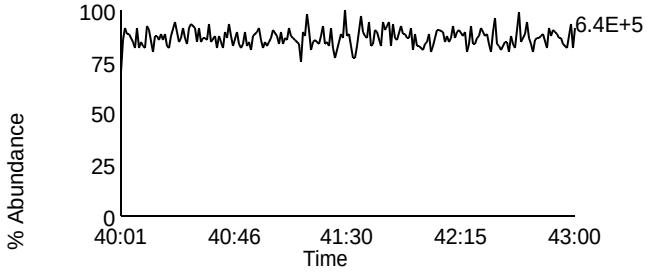
Data File: U131104A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT TC

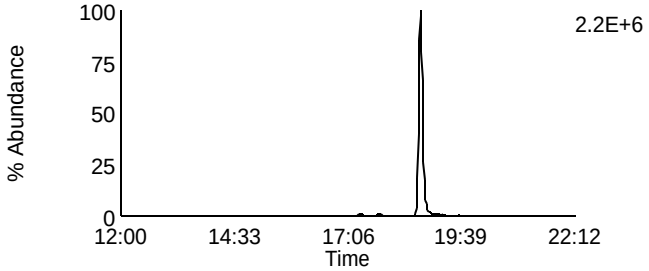


Homologue Group: Tetras

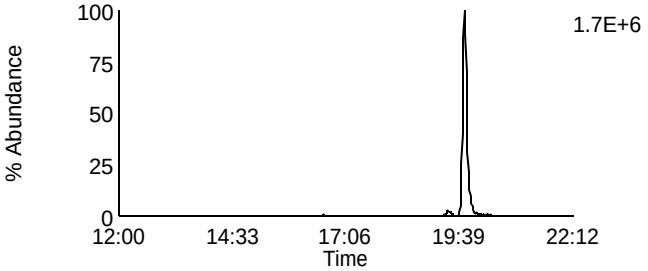
Data File Name: U131104A_05
Date Acquired: 11/4/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

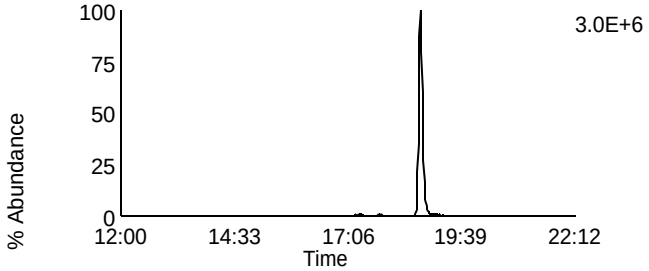
Data File: U131104A_05 G1 C1 - 303.9016
CAL CS4-7604-277 - SMT



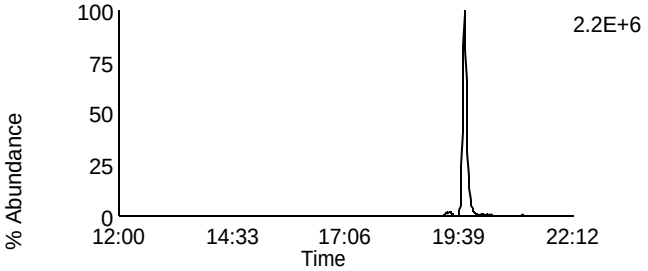
Data File: U131104A_05 G1 C7 - 319.8965
CAL CS4-7604-277 - SMT



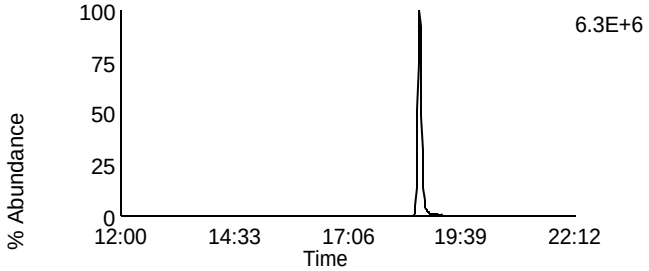
Data File: U131104A_05 G1 C2 - 305.8987
CAL CS4-7604-277 - SMT



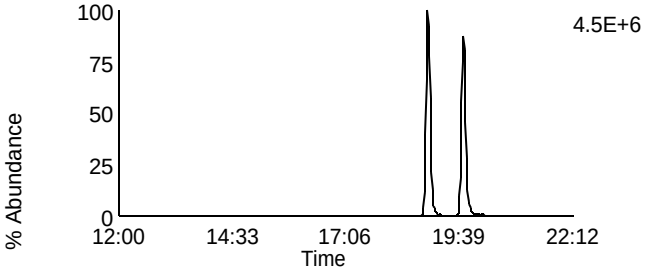
Data File: U131104A_05 G1 C8 - 321.8936
CAL CS4-7604-277 - SMT



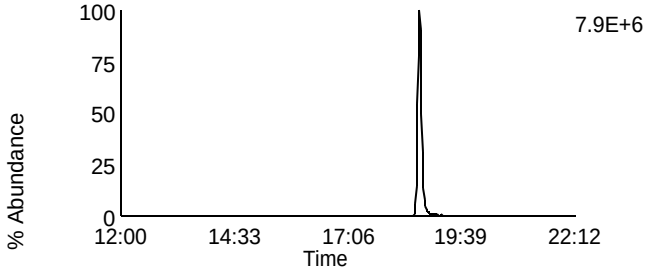
Data File: U131104A_05 G1 C3 - 315.9418
CAL CS4-7604-277 - SMT



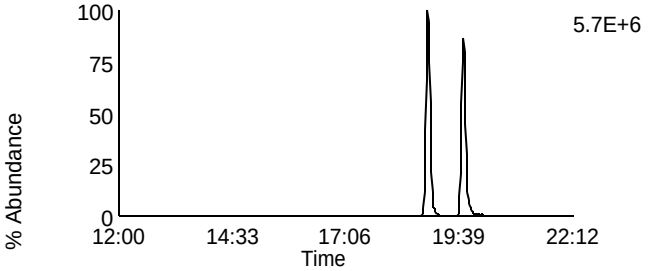
Data File: U131104A_05 G1 C10 - 331.9367
CAL CS4-7604-277 - SMT



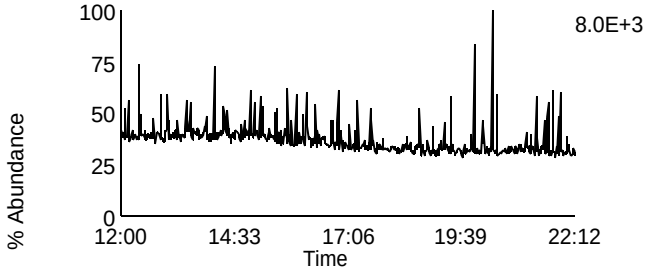
Data File: U131104A_05 G1 C4 - 317.9389
CAL CS4-7604-277 - SMT



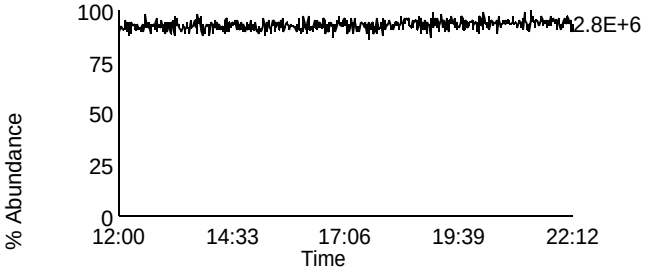
Data File: U131104A_05 G1 C11 - 333.9338
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G1 C14 - 375.8364
CAL CS4-7604-277 - SMT



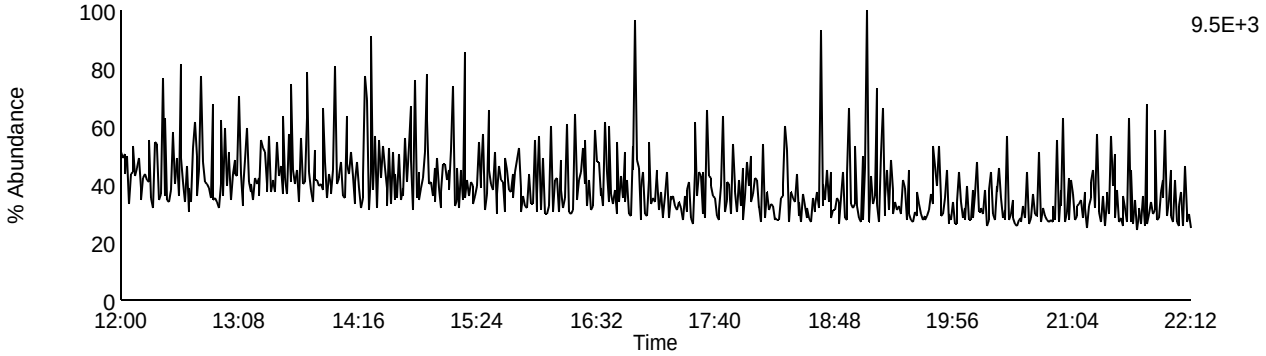
Data File: U131104A_05 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT



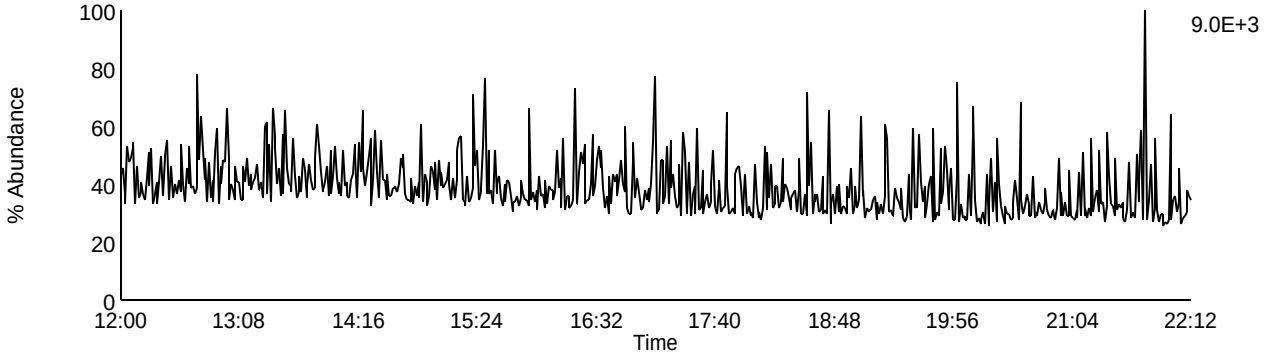
Homologue Group: Penta & Cleanup

Data File Name: U131104A_05	Lab Sample ID: CS4-7604-277
Date Acquired: 11/4/2013	Client Sample ID:
Sample Description: CAL CS4-7604-277 - SMT	Instrument: 10MSHR06 (U)

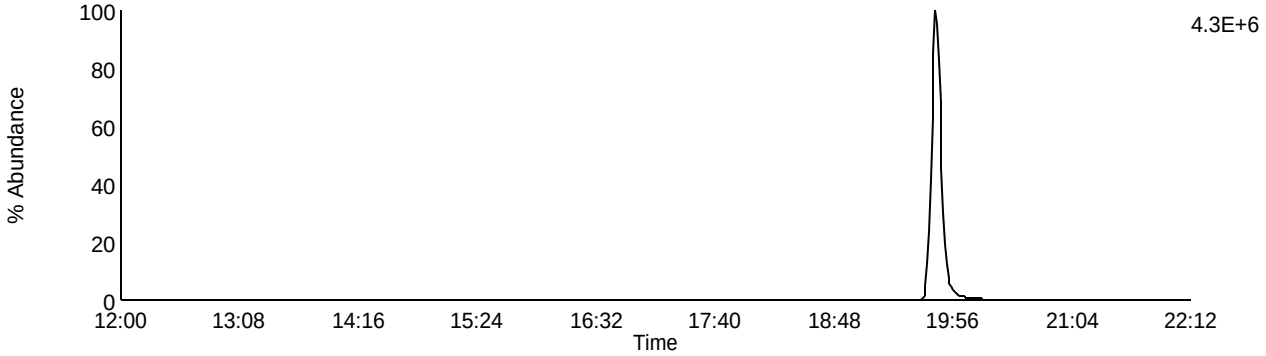
Data File: U131104A_05 G1 C12 - 339.8597
CAL CS4-7604-277 - SMT



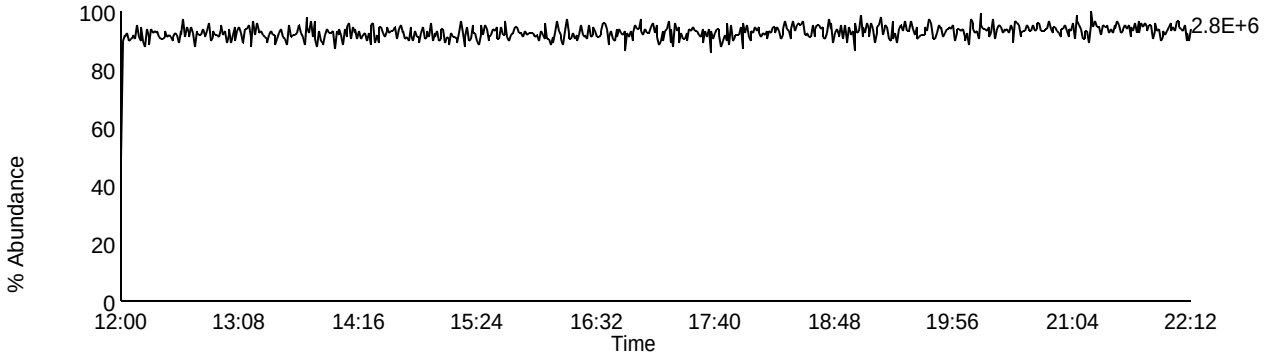
Data File: U131104A_05 G1 C13 - 341.8567
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G1 C9 - 327.8847
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G1 C5 - 318.9792
CAL CS4-7604-277 - SMT

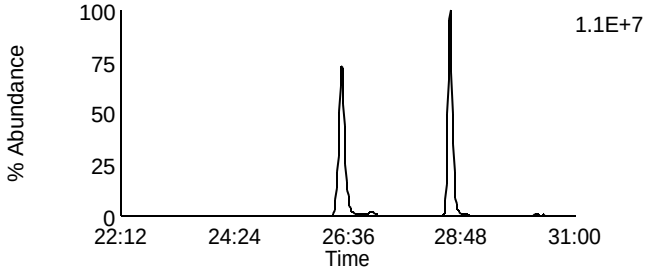


Homologue Group: Pentas

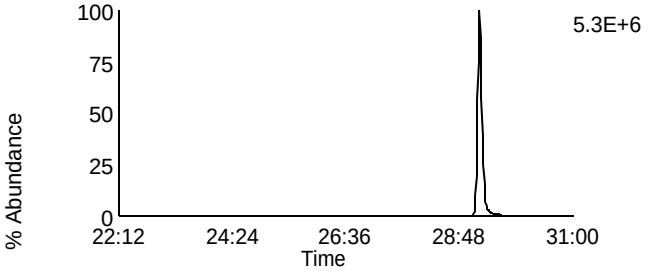
Data File Name: U131104A_05
Date Acquired: 11/4/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

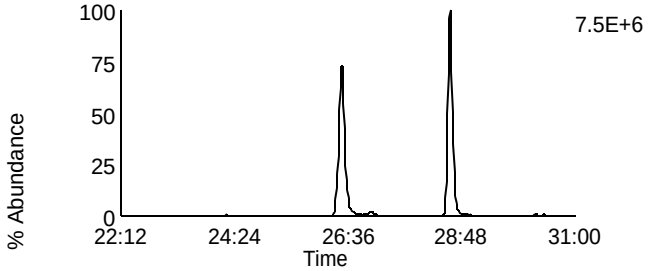
Data File: U131104A_05 G2 C1 - 339.8597
CAL CS4-7604-277 - SMT



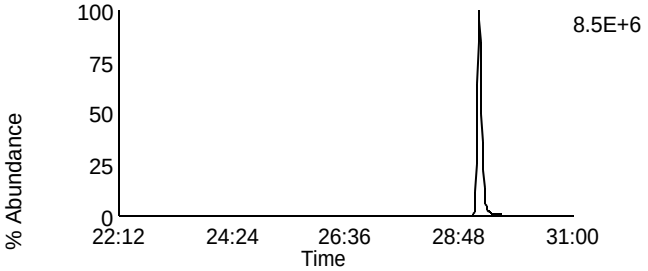
Data File: U131104A_05 G2 C4 - 353.8576
CAL CS4-7604-277 - SMT



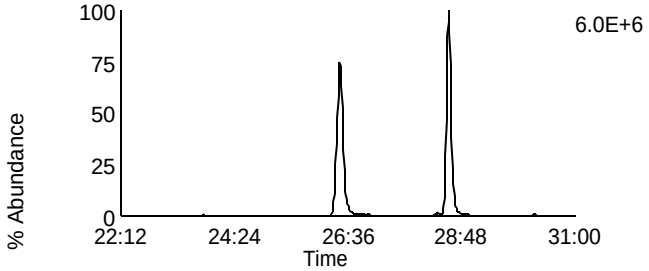
Data File: U131104A_05 G2 C2 - 341.8567
CAL CS4-7604-277 - SMT



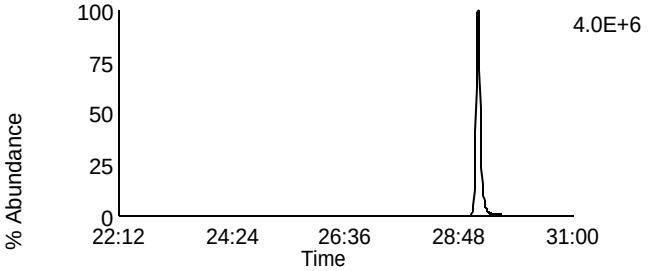
Data File: U131104A_05 G2 C8 - 355.8546
CAL CS4-7604-277 - SMT



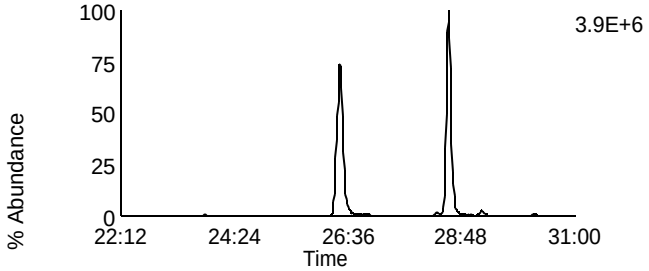
Data File: U131104A_05 G2 C3 - 351.8999
CAL CS4-7604-277 - SMT



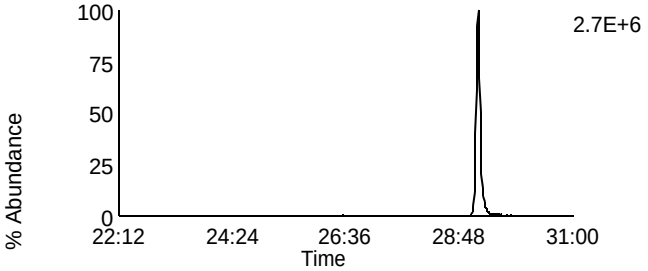
Data File: U131104A_05 G2 C10 - 367.8948
CAL CS4-7604-277 - SMT



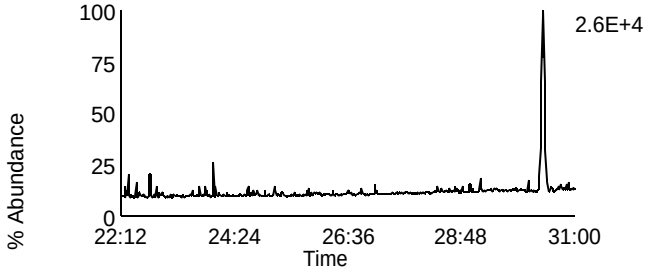
Data File: U131104A_05 G2 C5 - 353.8969
CAL CS4-7604-277 - SMT



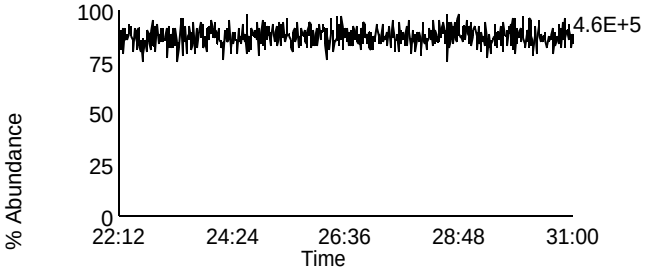
Data File: U131104A_05 G2 C11 - 369.8918
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G2 C12 - 409.7974
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G2 C6 - 354.9792
CAL CS4-7604-277 - SMT

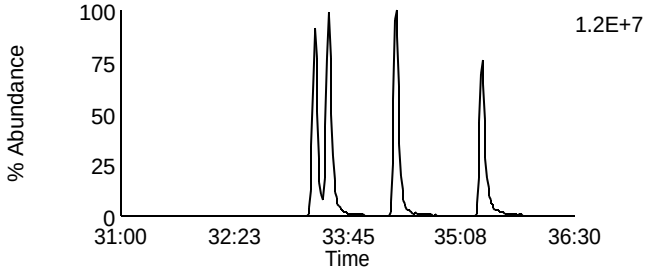


Homologue Group: Hexas

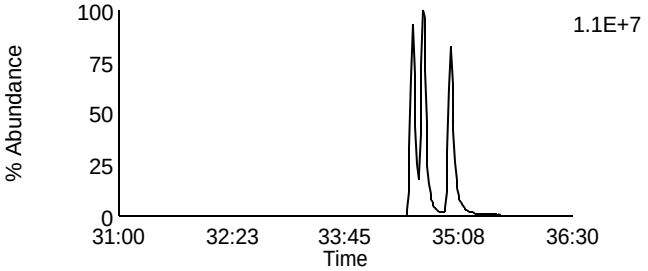
Data File Name: U131104A_05
Date Acquired: 11/4/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

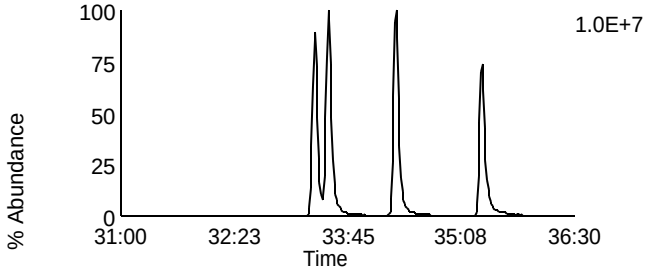
Data File: U131104A_05 G3 C1 - 373.8207
CAL CS4-7604-277 - SMT



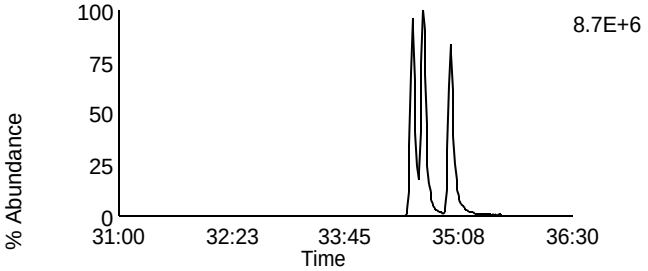
Data File: U131104A_05 G3 C7 - 389.8156
CAL CS4-7604-277 - SMT



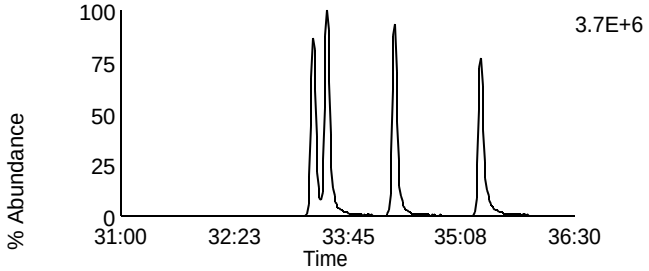
Data File: U131104A_05 G3 C2 - 375.8178
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G3 C8 - 391.8127
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G3 C5 - 383.8639
CAL CS4-7604-277 - SMT



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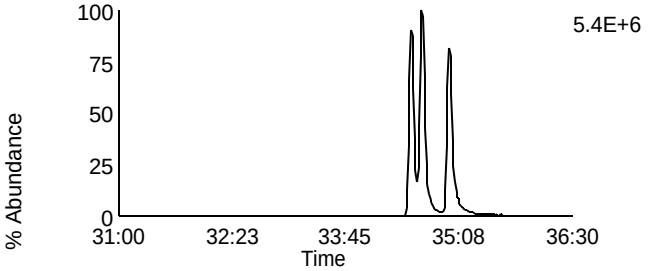
CAL CS4-7604-277 - SMT



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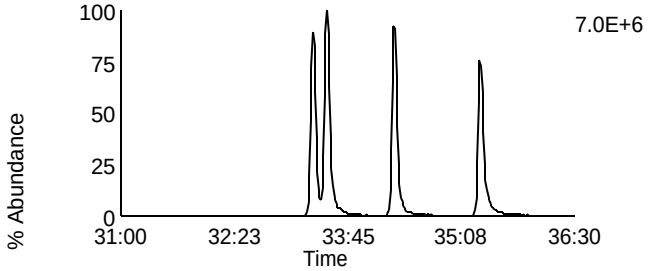
CAL CS4-7604-277 - SMT



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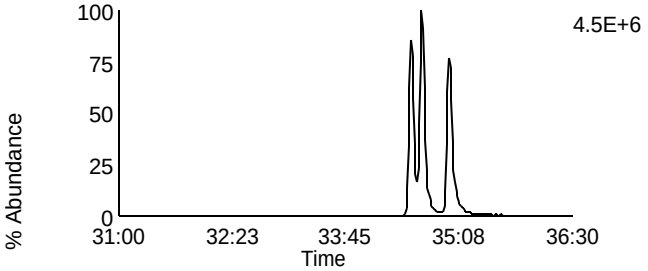
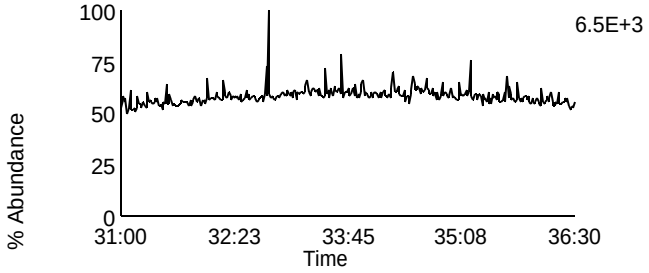
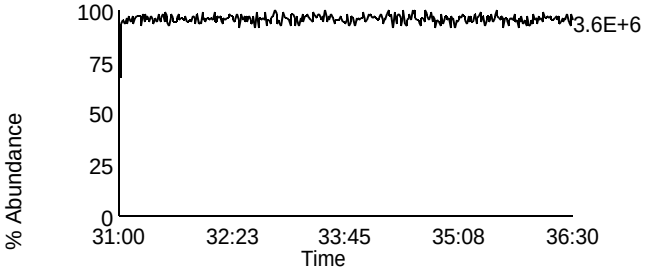
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G3 C11 - 445.7555
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G3 C3 - 380.976
CAL CS4-7604-277 - SMT

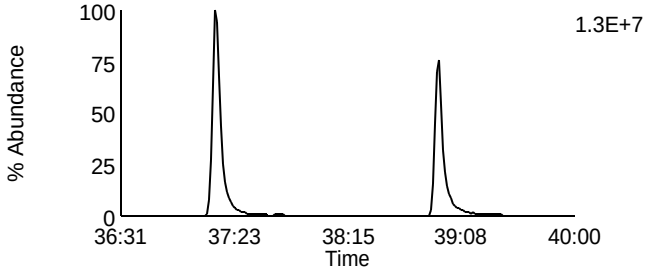


Homologue Group: Heptas

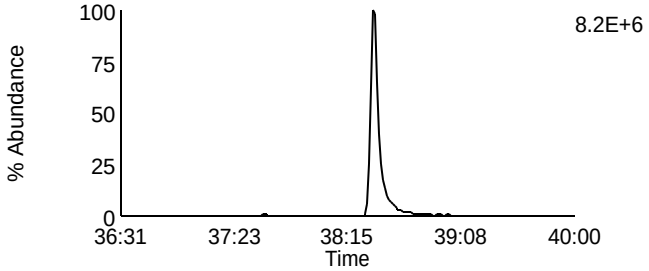
Data File Name: U131104A_05
Date Acquired: 11/4/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

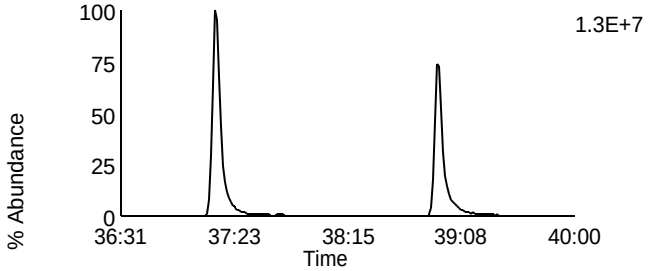
Data File: U131104A_05 G4 C3 - 407.7818
CAL CS4-7604-277 - SMT



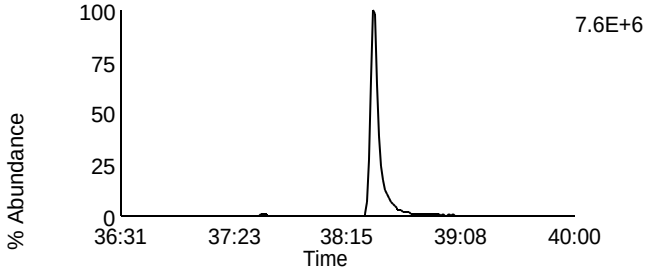
Data File: U131104A_05 G4 C8 - 423.7767
CAL CS4-7604-277 - SMT



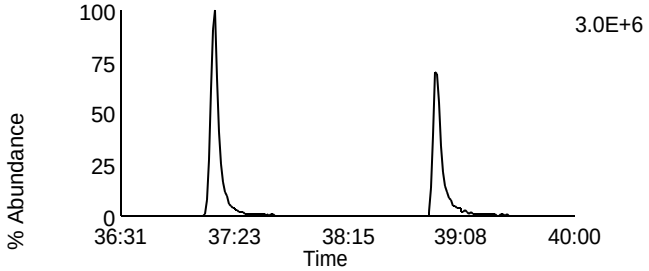
Data File: U131104A_05 G4 C4 - 409.7788
CAL CS4-7604-277 - SMT



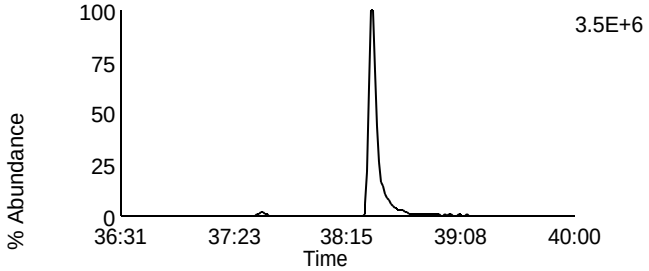
Data File: U131104A_05 G4 C9 - 425.7737
CAL CS4-7604-277 - SMT



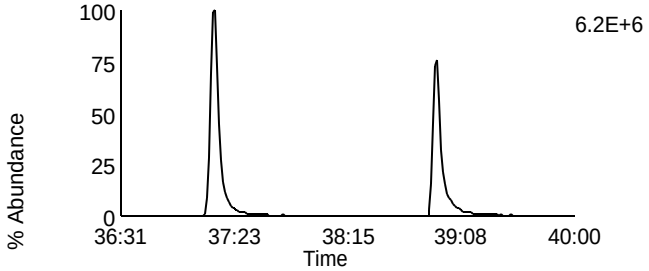
Data File: U131104A_05 G4 C6 - 417.825
CAL CS4-7604-277 - SMT



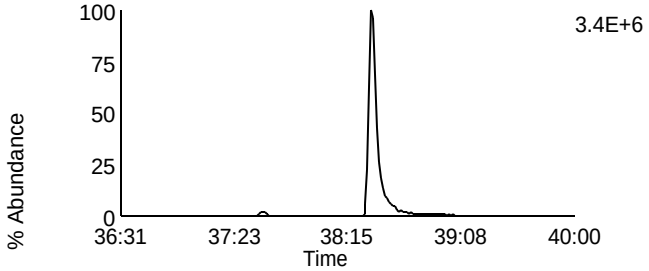
Data File: U131104A_05 G4 C11 - 435.8169
CAL CS4-7604-277 - SMT



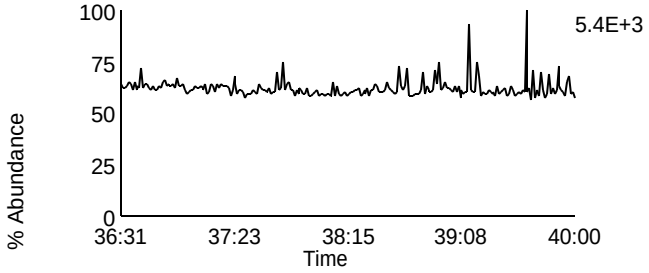
Data File: U131104A_05 G4 C7 - 419.822
CAL CS4-7604-277 - SMT



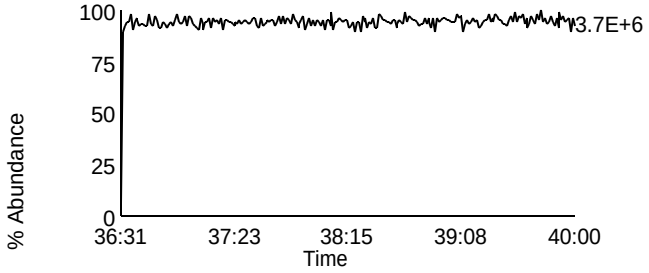
Data File: U131104A_05 G4 C12 - 437.814
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G4 C13 - 479.7165
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G4 C1 - 380.976
CAL CS4-7604-277 - SMT

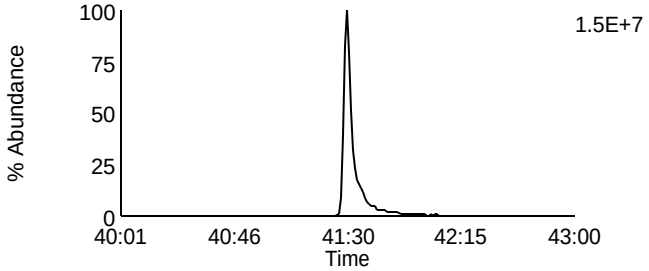


Homologue Group: Octas

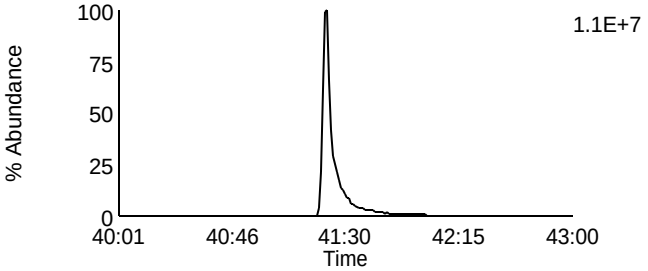
Data File Name: U131104A_05
Date Acquired: 11/4/2013
Sample Description: CAL CS4-7604-277 - SMT

Lab Sample ID: CS4-7604-277
Client Sample ID:
Instrument: 10MSHR06 (U)

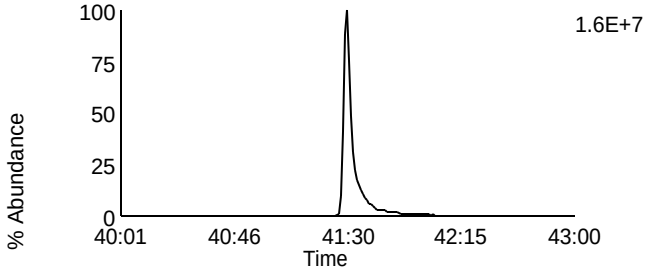
Data File: U131104A_05 G5 C4 - 441.7428
CAL CS4-7604-277 - SMT



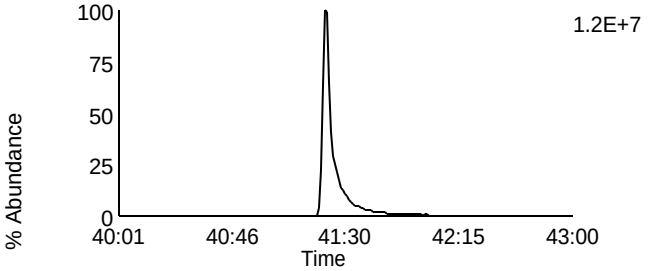
Data File: U131104A_05 G5 C8 - 457.7377
CAL CS4-7604-277 - SMT



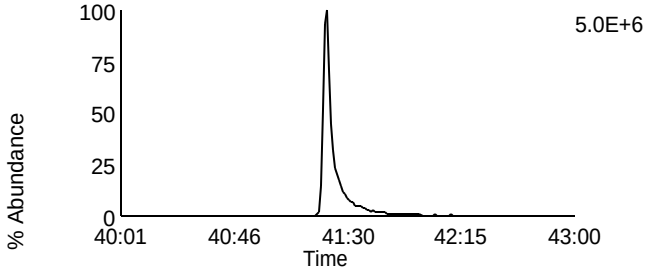
Data File: U131104A_05 G5 C5 - 443.7398
CAL CS4-7604-277 - SMT



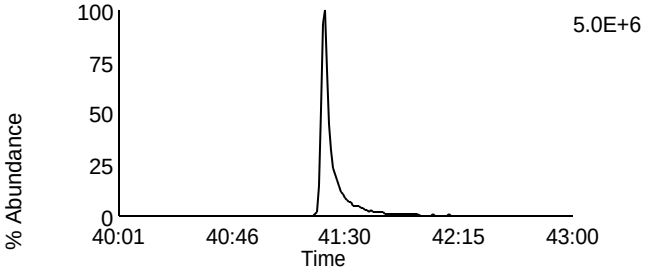
Data File: U131104A_05 G5 C9 - 459.7347
CAL CS4-7604-277 - SMT



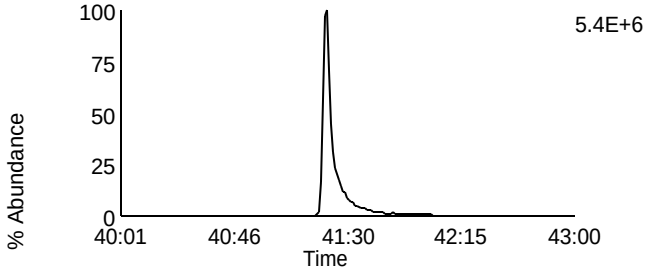
Data File: U131104A_05 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



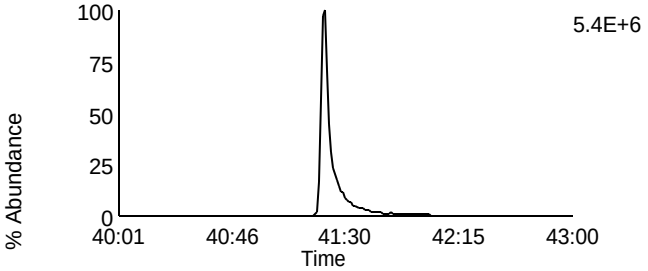
Data File: U131104A_05 G5 C11 - 469.7779
CAL CS4-7604-277 - SMT



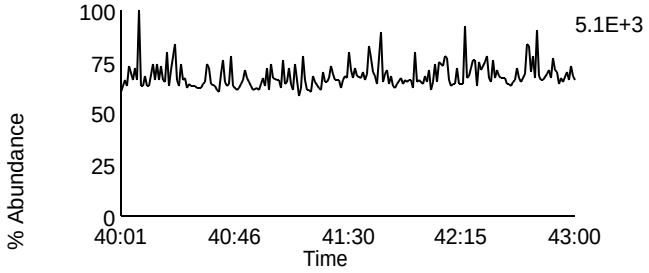
Data File: U131104A_05 G5 C12 - 471.7749
CAL CS4-7604-277 - SMT



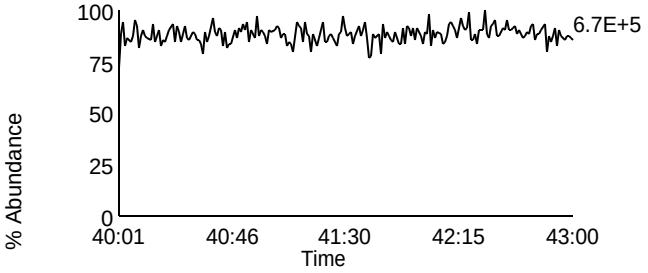
Data File: U131104A_05 G5 C12 - 471.7749
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G5 C13 - 513.6775
CAL CS4-7604-277 - SMT



Data File: U131104A_05 G5 C2 - 430.9728
CAL CS4-7604-277 - SMT

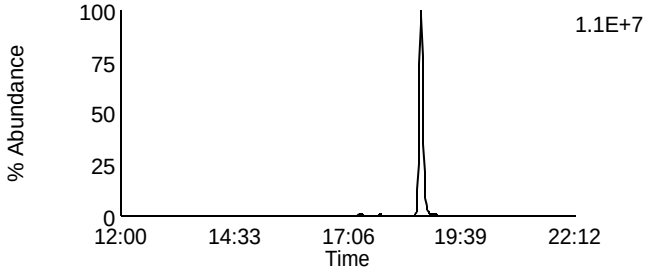


Homologue Group: Tetras

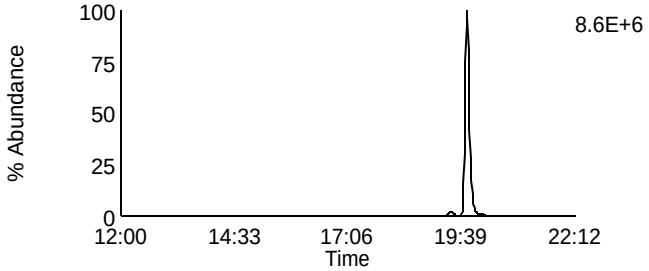
Data File Name: U131104A_04
Date Acquired: 11/4/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

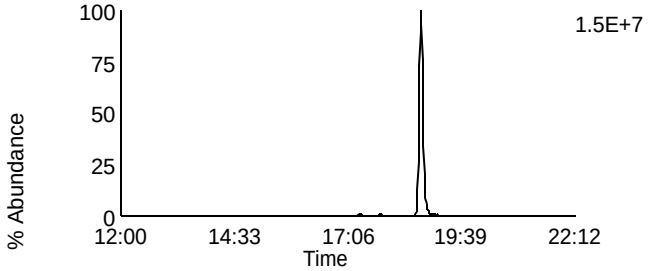
Data File: U131104A_04 G1 C1 - 303.9016
CAL CS5-7604-278 - SMT



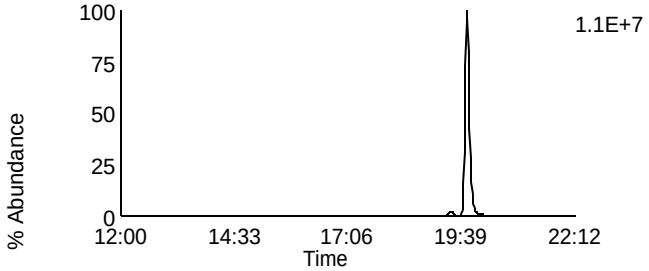
Data File: U131104A_04 G1 C7 - 319.8965
CAL CS5-7604-278 - SMT



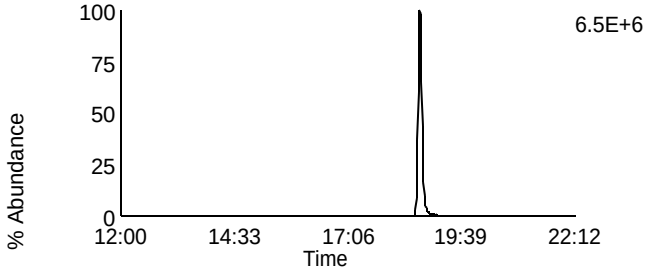
Data File: U131104A_04 G1 C2 - 305.8987
CAL CS5-7604-278 - SMT



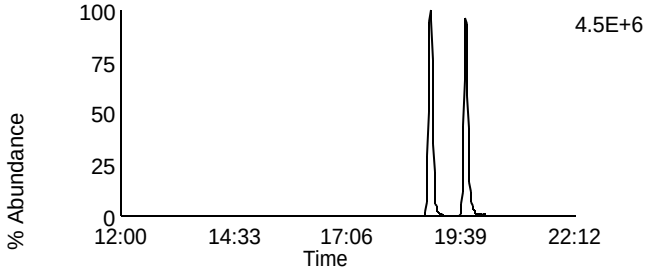
Data File: U131104A_04 G1 C8 - 321.8936
CAL CS5-7604-278 - SMT



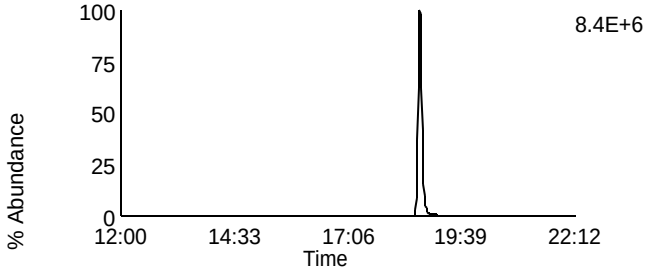
Data File: U131104A_04 G1 C3 - 315.9418
CAL CS5-7604-278 - SMT



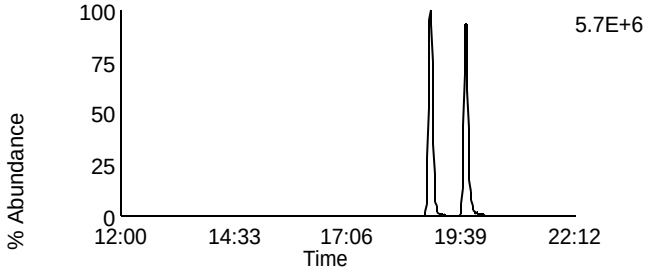
Data File: U131104A_04 G1 C10 - 331.9367
CAL CS5-7604-278 - SMT



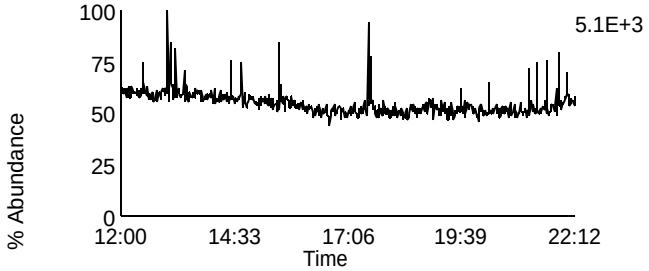
Data File: U131104A_04 G1 C4 - 317.9389
CAL CS5-7604-278 - SMT



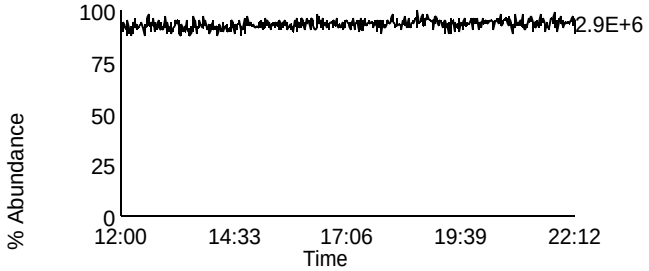
Data File: U131104A_04 G1 C11 - 333.9338
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G1 C14 - 375.8364
CAL CS5-7604-278 - SMT



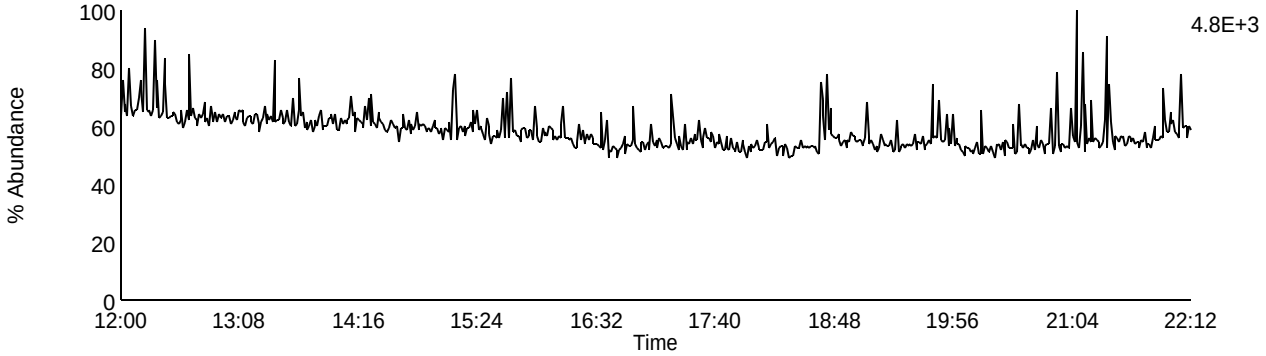
Data File: U131104A_04 G1 C5 - 318.9792
CAL CS5-7604-278 - SMT



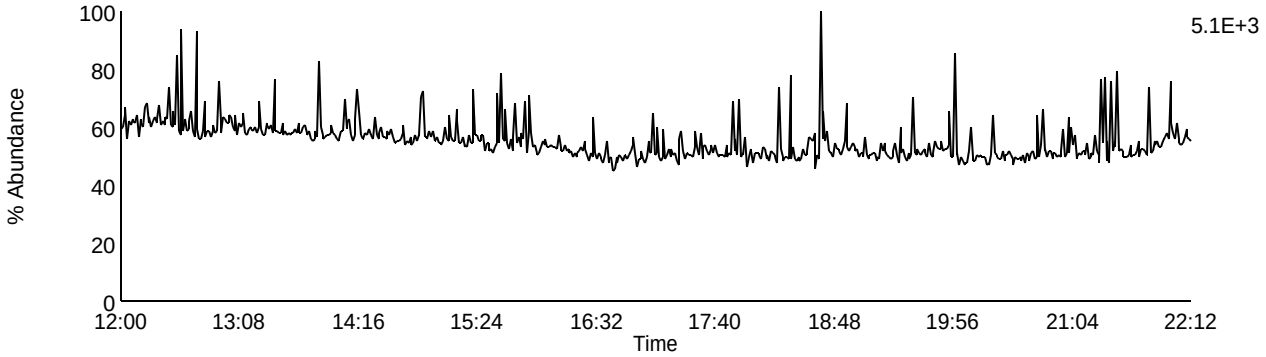
Homologue Group: Penta & Cleanup

Data File Name: U131104A_04	Lab Sample ID: CS5-7604-278
Date Acquired: 11/4/2013	Client Sample ID:
Sample Description: CAL CS5-7604-278 - SMT	Instrument: 10MSHR06 (U)

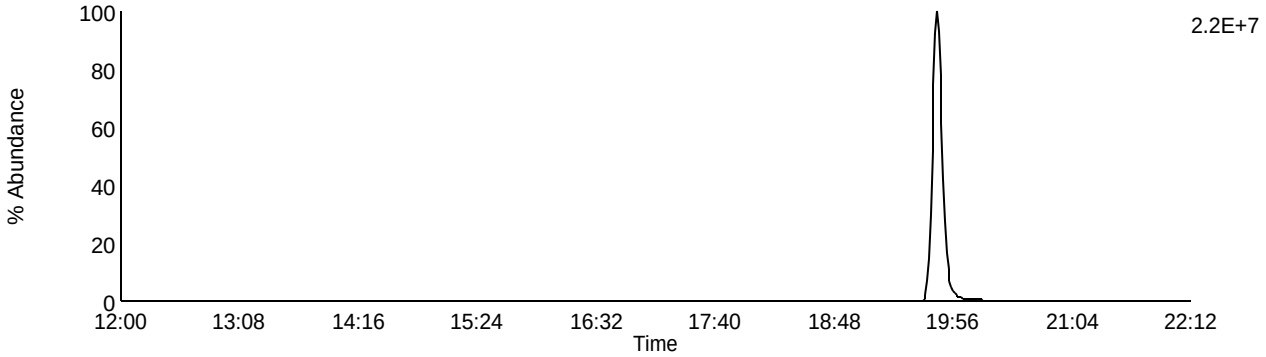
Data File: U131104A_04 G1 C12 - 339.8597
CAL CS5-7604-278 - SMT



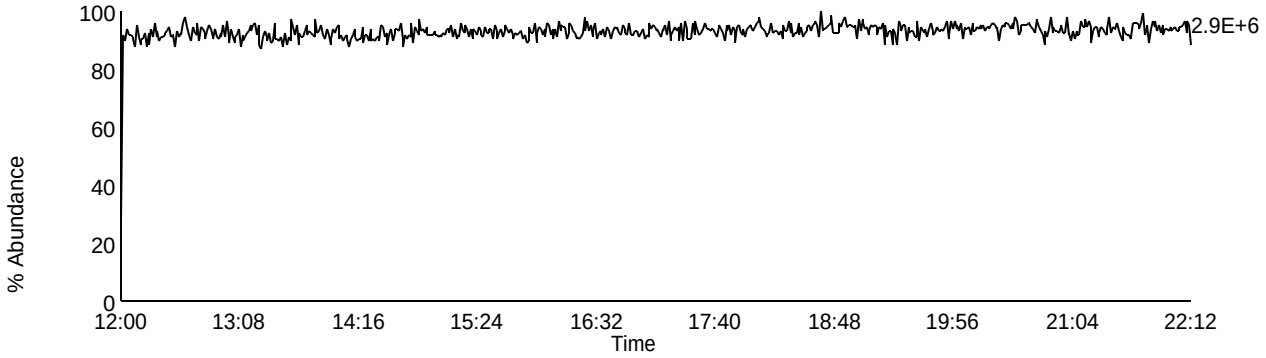
Data File: U131104A_04 G1 C13 - 341.8567
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G1 C9 - 327.8847
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G1 C5 - 318.9792
CAL CS5-7604-278 - SMT

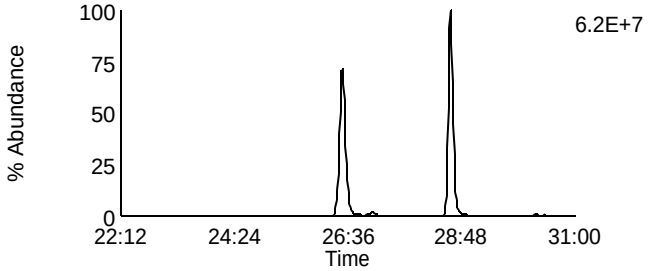


Homologue Group: Pentas

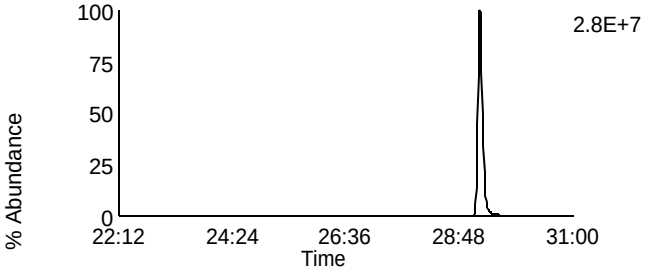
Data File Name: U131104A_04
Date Acquired: 11/4/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

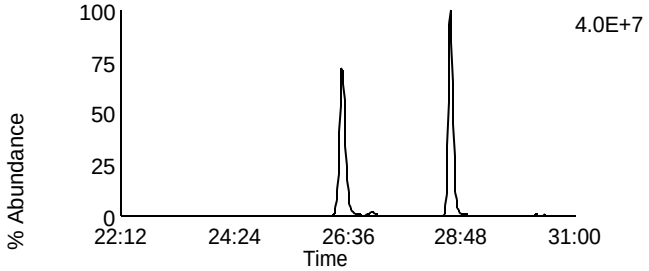
Data File: U131104A_04 G2 C1 - 339.8597
CAL CS5-7604-278 - SMT



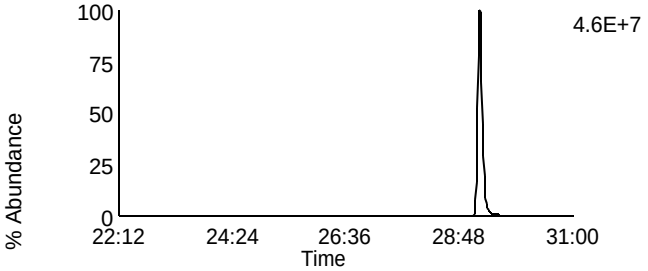
Data File: U131104A_04 G2 C4 - 353.8576
CAL CS5-7604-278 - SMT



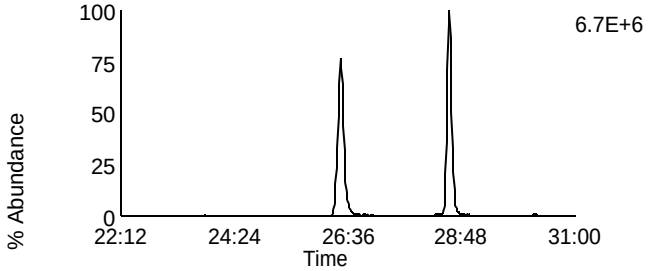
Data File: U131104A_04 G2 C2 - 341.8567
CAL CS5-7604-278 - SMT



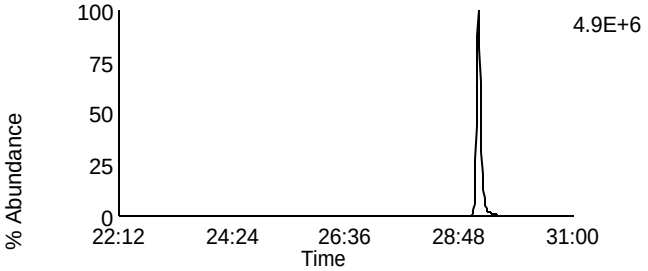
Data File: U131104A_04 G2 C8 - 355.8546
CAL CS5-7604-278 - SMT



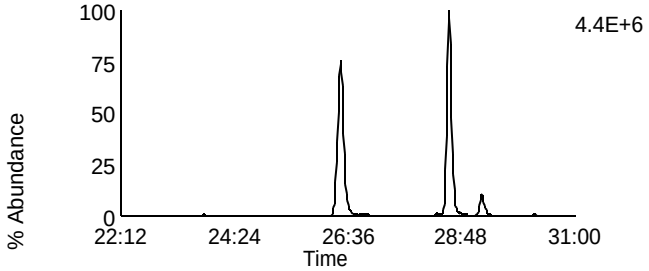
Data File: U131104A_04 G2 C3 - 351.8999
CAL CS5-7604-278 - SMT



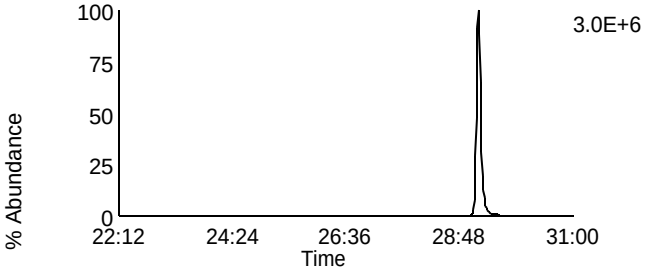
Data File: U131104A_04 G2 C10 - 367.8948
CAL CS5-7604-278 - SMT



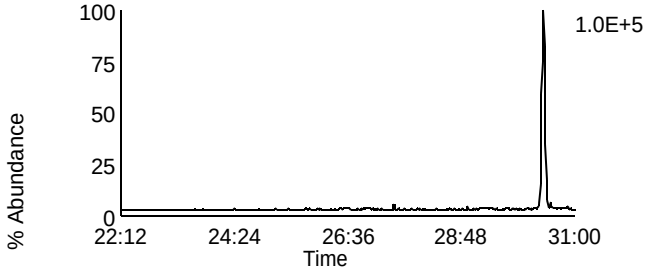
Data File: U131104A_04 G2 C5 - 353.8969
CAL CS5-7604-278 - SMT



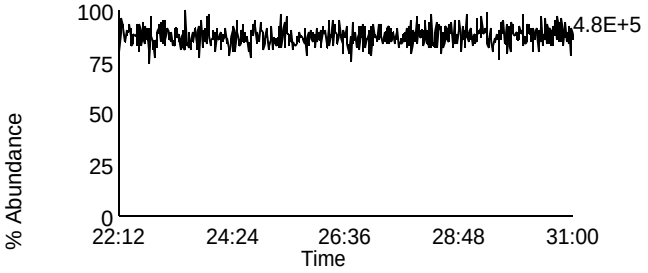
Data File: U131104A_04 G2 C11 - 369.8918
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G2 C12 - 409.7974
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G2 C6 - 354.9792
CAL CS5-7604-278 - SMT

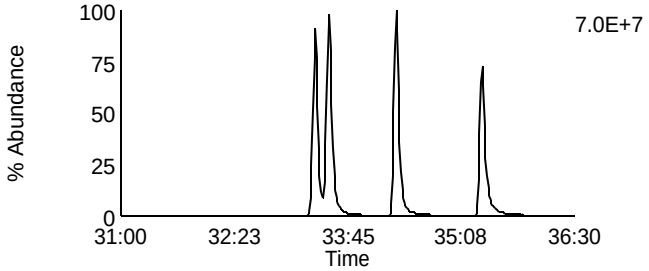


Homologue Group: Hexas

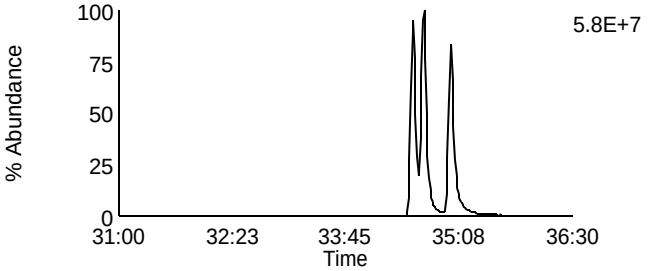
Data File Name: U131104A_04
Date Acquired: 11/4/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

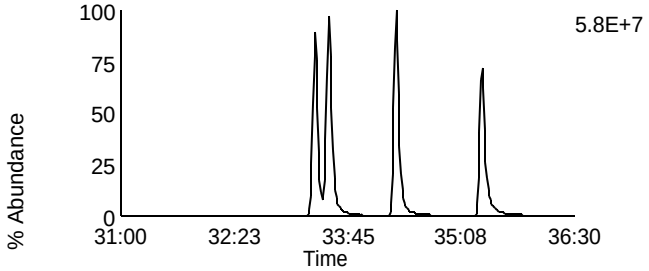
Data File: U131104A_04 G3 C1 - 373.8207
CAL CS5-7604-278 - SMT



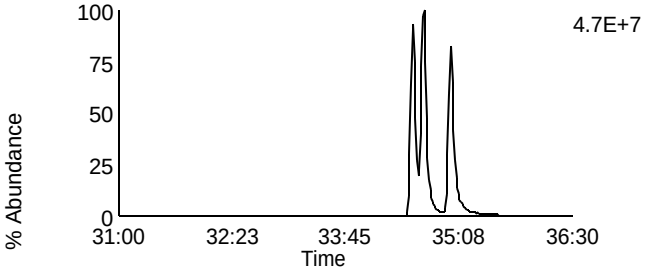
Data File: U131104A_04 G3 C7 - 389.8156
CAL CS5-7604-278 - SMT



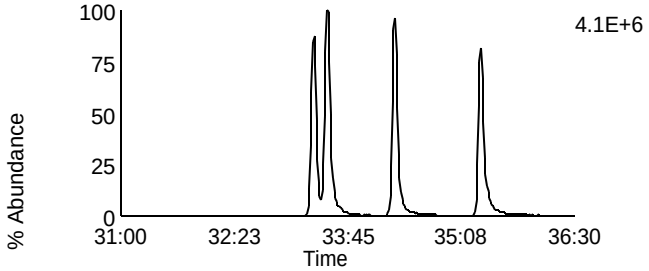
Data File: U131104A_04 G3 C2 - 375.8178
CAL CS5-7604-278 - SMT



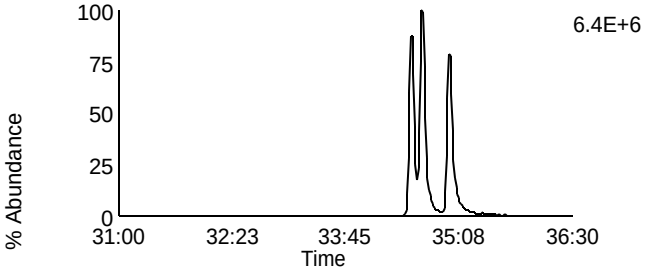
Data File: U131104A_04 G3 C8 - 391.8127
CAL CS5-7604-278 - SMT



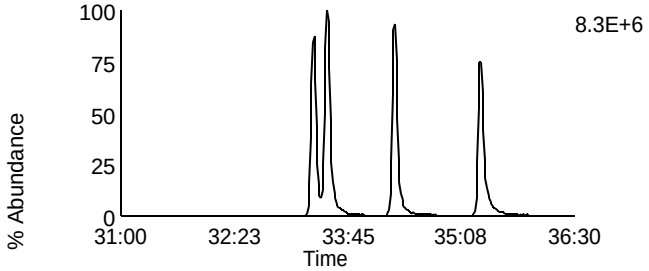
Data File: U131104A_04 G3 C5 - 383.8639
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G3 C9 - 401.8559
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G3 C6 - 385.861
CAL CS5-7604-278 - SMT



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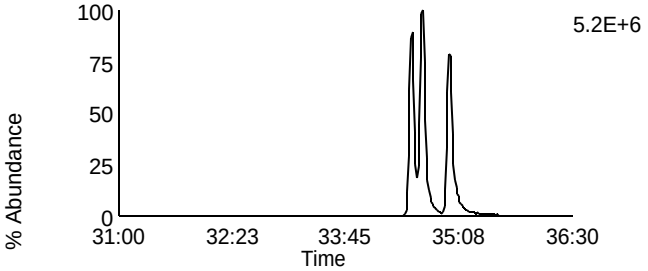
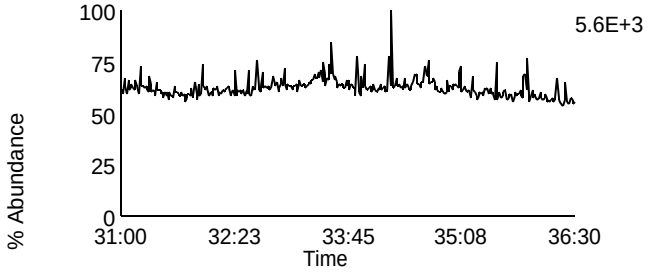
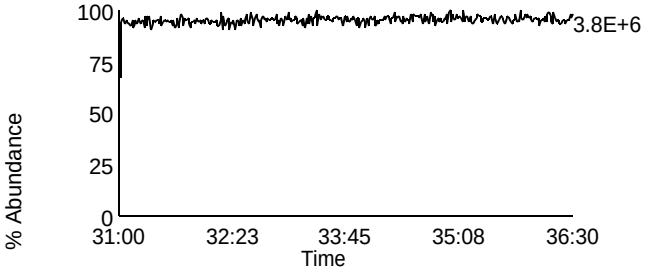
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G3 C11 - 445.7555
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G3 C3 - 380.976
CAL CS5-7604-278 - SMT

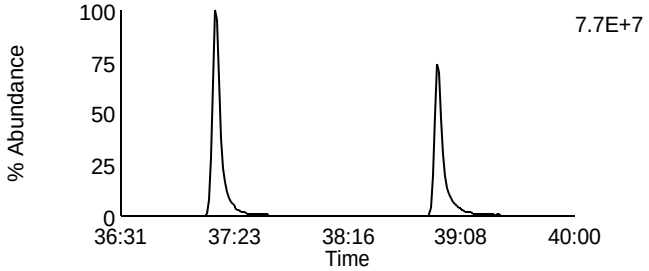


Homologue Group: Heptas

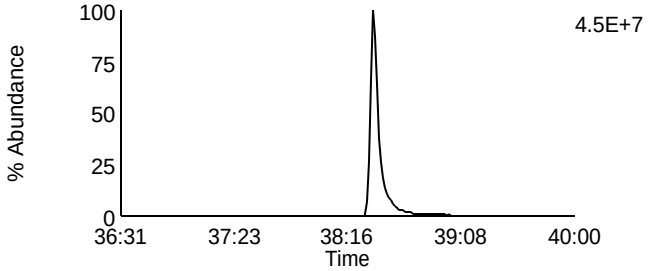
Data File Name: U131104A_04
Date Acquired: 11/4/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

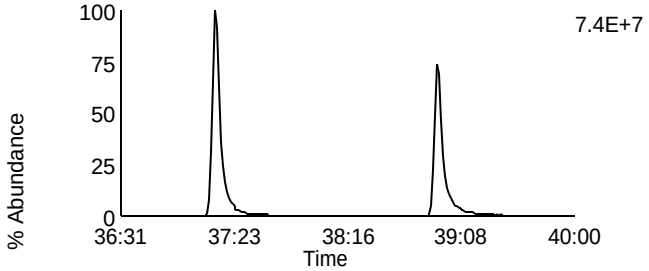
Data File: U131104A_04 G4 C3 - 407.7818
CAL CS5-7604-278 - SMT



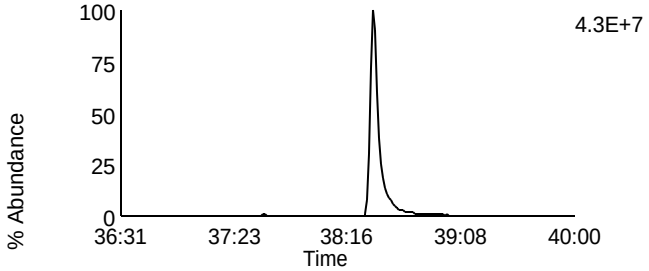
Data File: U131104A_04 G4 C8 - 423.7767
CAL CS5-7604-278 - SMT



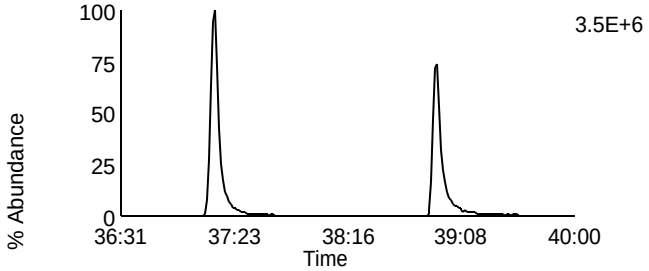
Data File: U131104A_04 G4 C4 - 409.7788
CAL CS5-7604-278 - SMT



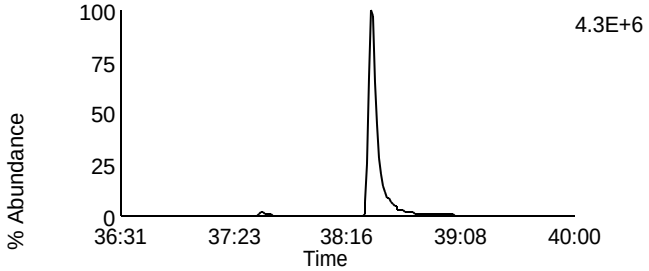
Data File: U131104A_04 G4 C9 - 425.7737
CAL CS5-7604-278 - SMT



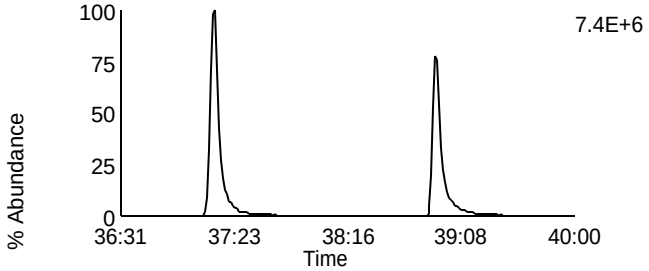
Data File: U131104A_04 G4 C6 - 417.825
CAL CS5-7604-278 - SMT



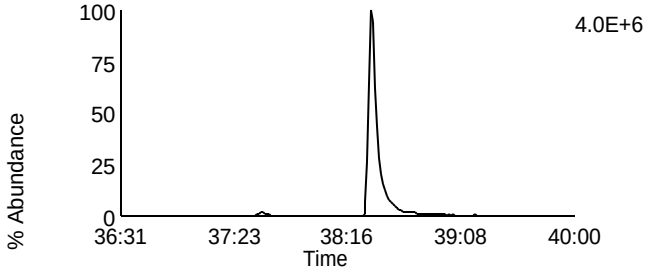
Data File: U131104A_04 G4 C11 - 435.8169
CAL CS5-7604-278 - SMT



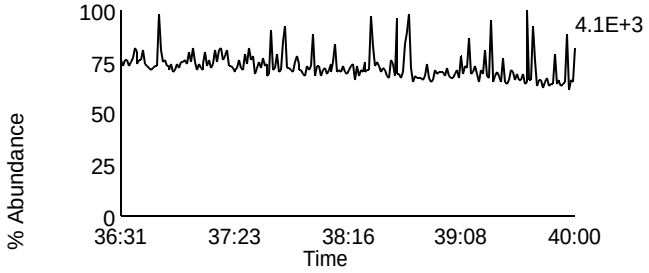
Data File: U131104A_04 G4 C7 - 419.822
CAL CS5-7604-278 - SMT



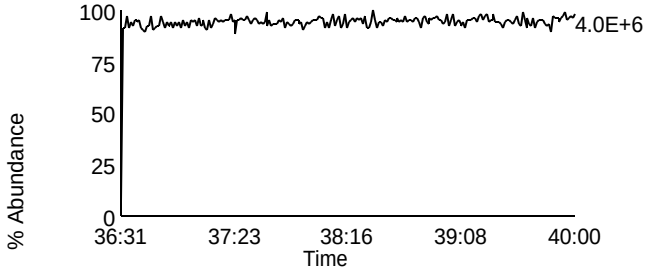
Data File: U131104A_04 G4 C12 - 437.814
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G4 C13 - 479.7165
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G4 C1 - 380.976
CAL CS5-7604-278 - SMT

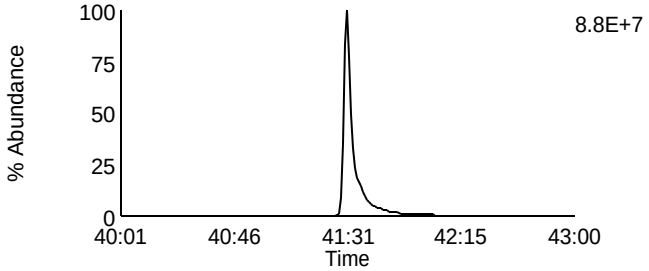


Homologue Group: Octas

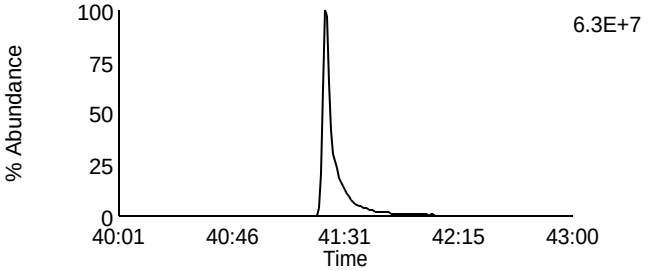
Data File Name: U131104A_04
Date Acquired: 11/4/2013
Sample Description: CAL CS5-7604-278 - SMT

Lab Sample ID: CS5-7604-278
Client Sample ID:
Instrument: 10MSHR06 (U)

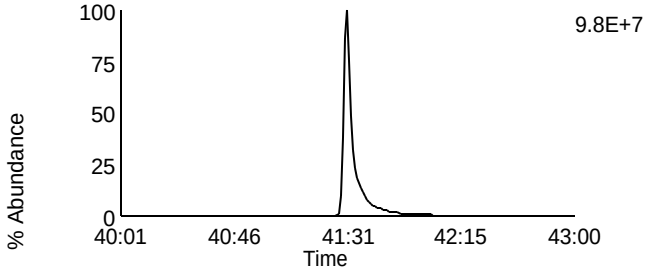
Data File: U131104A_04 G5 C4 - 441.7428
CAL CS5-7604-278 - SMT



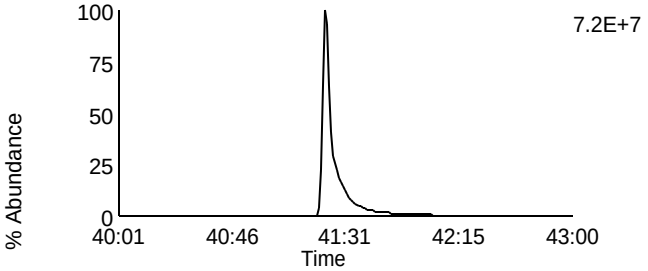
Data File: U131104A_04 G5 C8 - 457.7377
CAL CS5-7604-278 - SMT



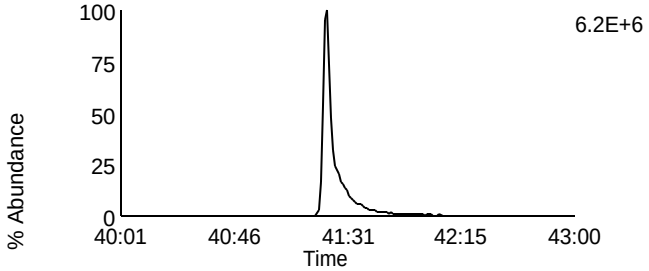
Data File: U131104A_04 G5 C5 - 443.7398
CAL CS5-7604-278 - SMT



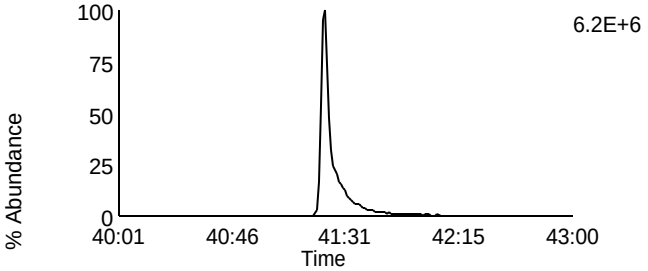
Data File: U131104A_04 G5 C9 - 459.7347
CAL CS5-7604-278 - SMT



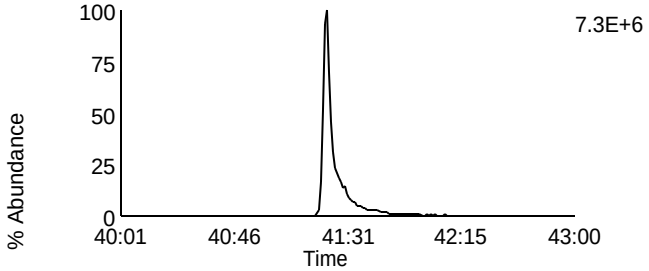
Data File: U131104A_04 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



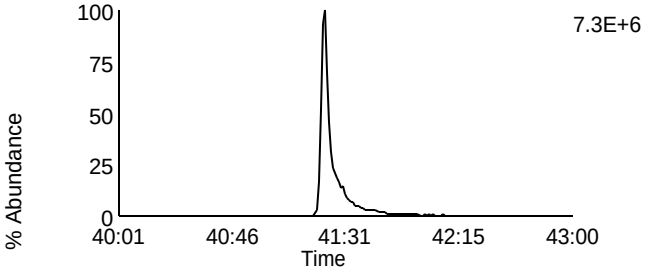
Data File: U131104A_04 G5 C11 - 469.7779
CAL CS5-7604-278 - SMT



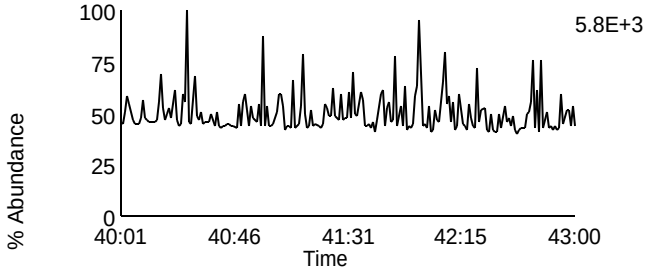
Data File: U131104A_04 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



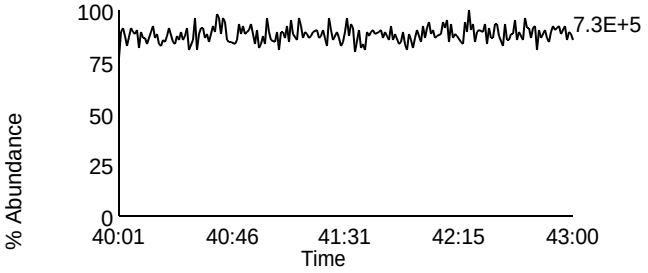
Data File: U131104A_04 G5 C12 - 471.7749
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G5 C13 - 513.6775
CAL CS5-7604-278 - SMT



Data File: U131104A_04 G5 C2 - 430.9728
CAL CS5-7604-278 - SMT

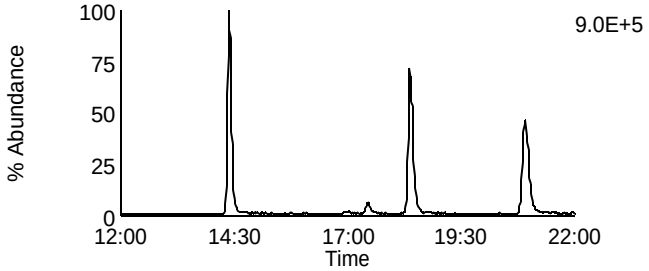


Homologue Group: Tetras

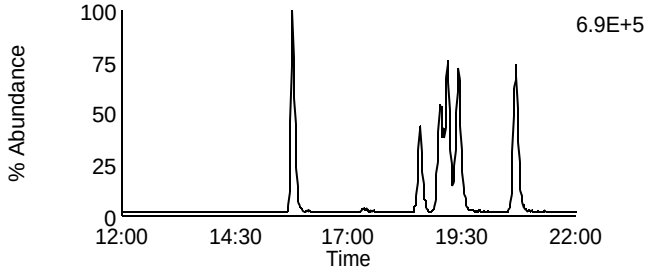
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

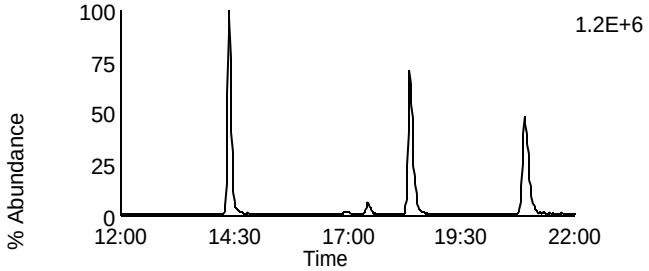
Data File: F131106A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - BAL TC



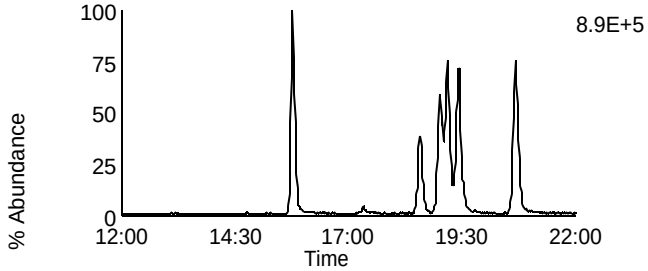
Data File: F131106A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - BAL TC



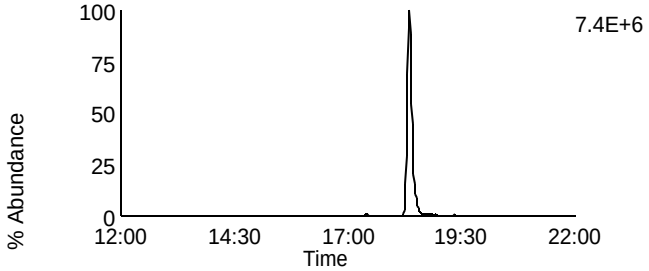
Data File: F131106A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - BAL TC



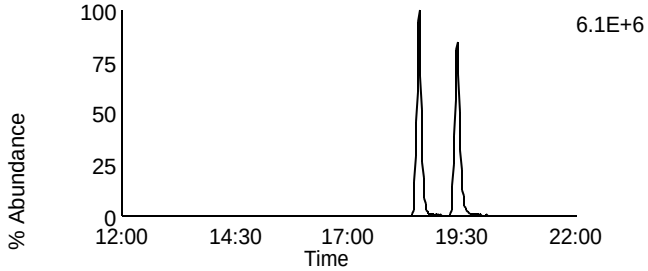
Data File: F131106A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - BAL TC



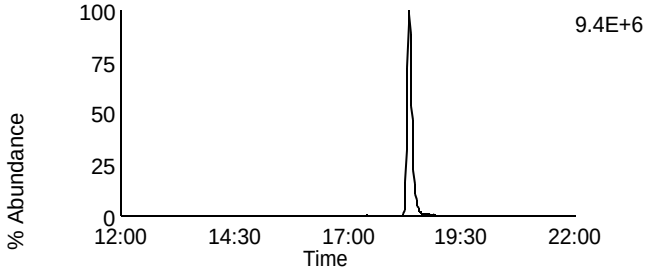
Data File: F131106A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - BAL TC



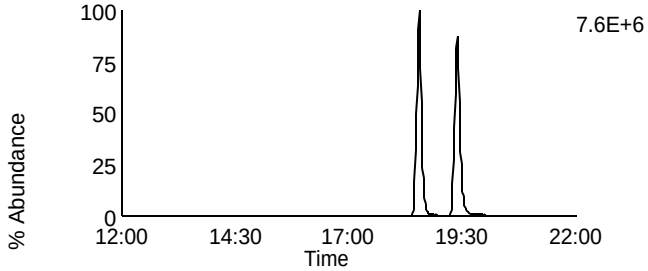
Data File: F131106A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - BAL TC



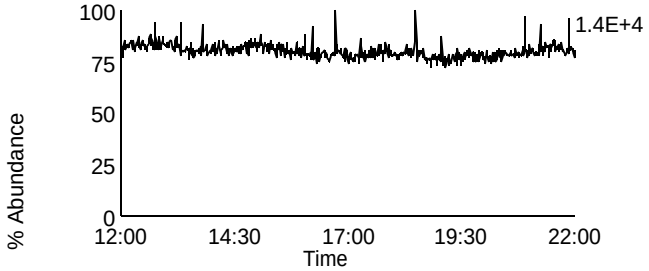
Data File: F131106A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - BAL TC



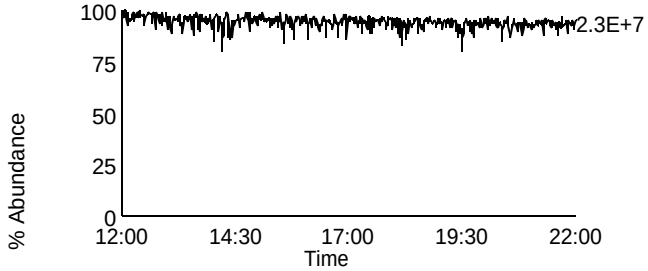
Data File: F131106A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL TC

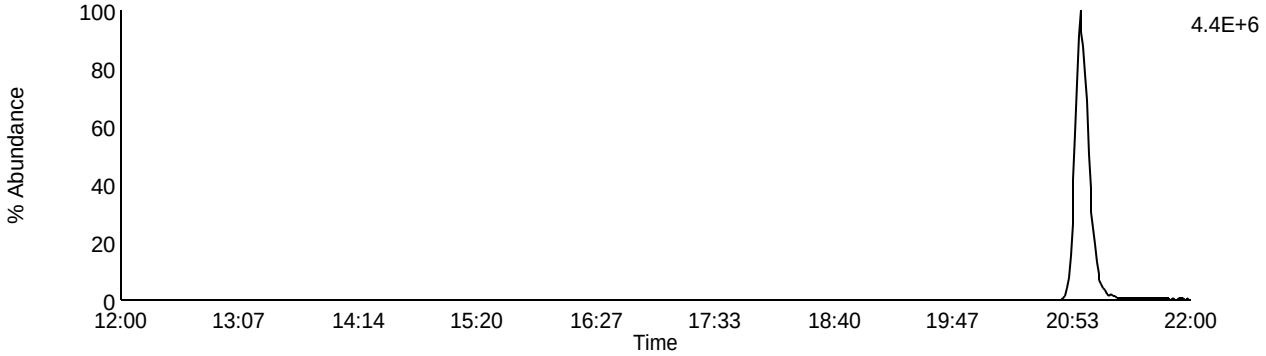


Homologue Group: Penta & Cleanup

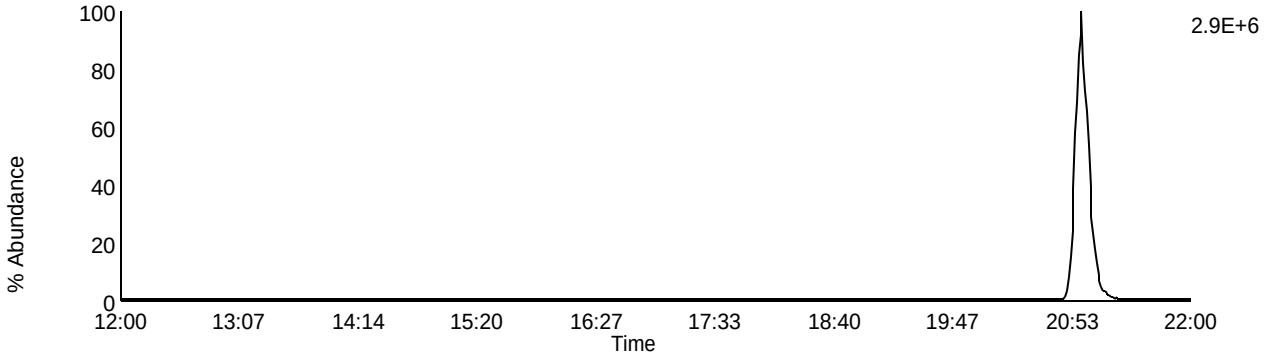
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

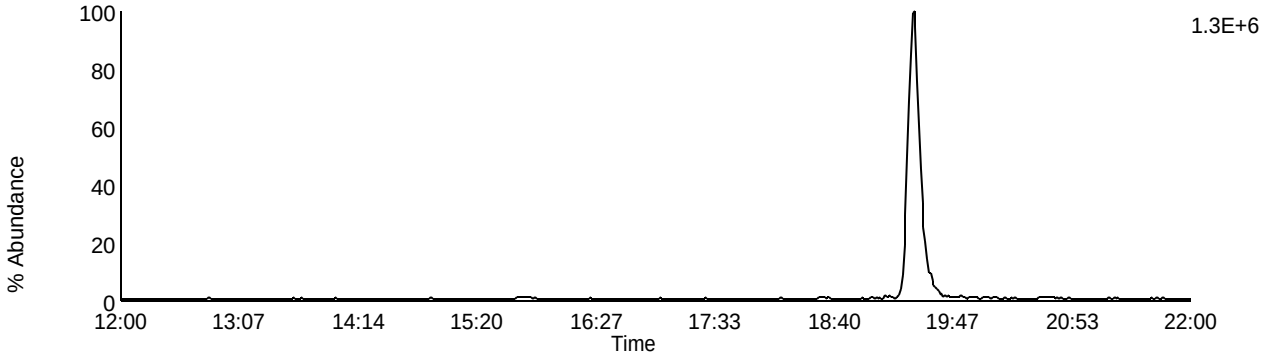
Data File: F131106A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - BAL TC



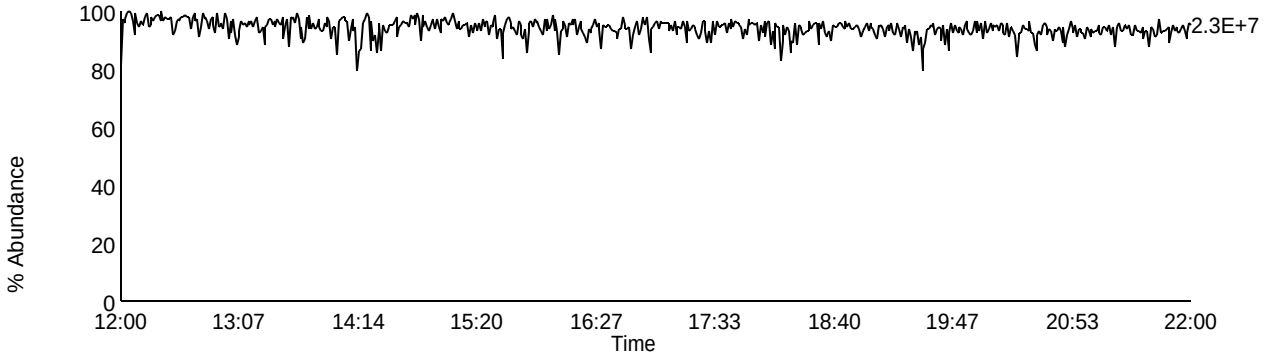
Data File: F131106A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL TC

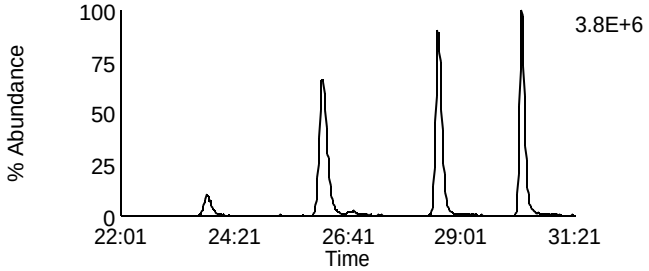


Homologue Group: Pentas

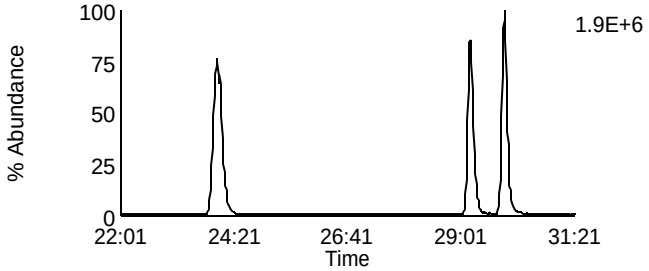
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

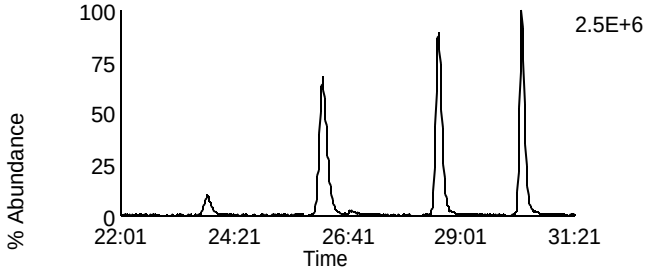
Data File: F131106A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - BAL TC



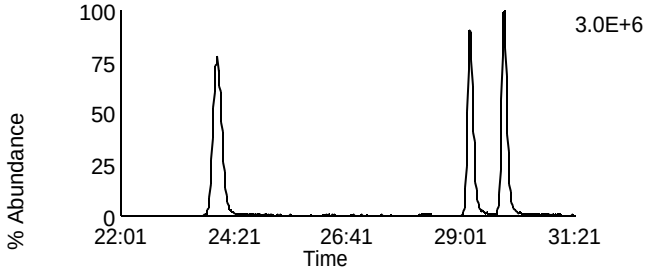
Data File: F131106A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - BAL TC



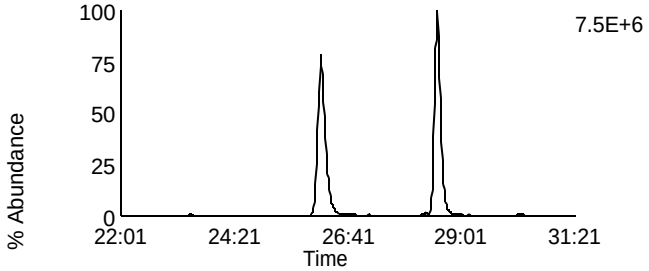
Data File: F131106A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - BAL TC



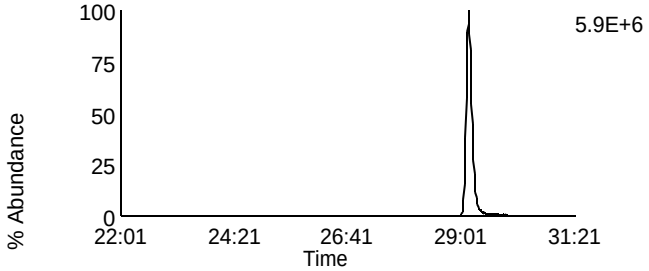
Data File: F131106A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - BAL TC



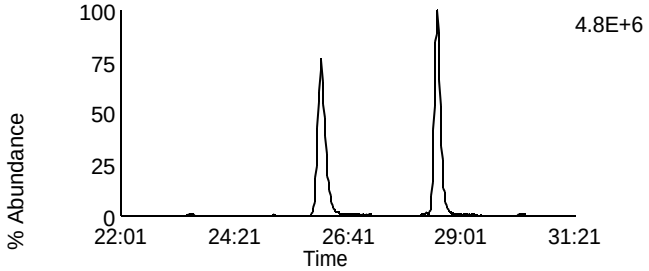
Data File: F131106A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - BAL TC



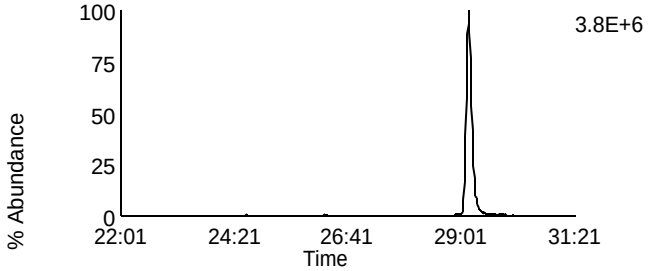
Data File: F131106A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - BAL TC



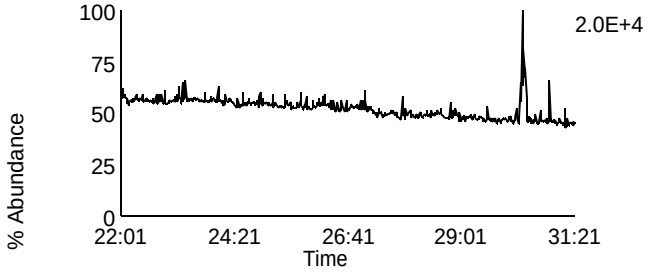
Data File: F131106A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - BAL TC



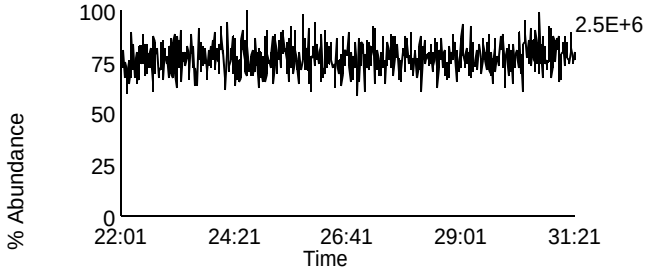
Data File: F131106A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - BAL TC

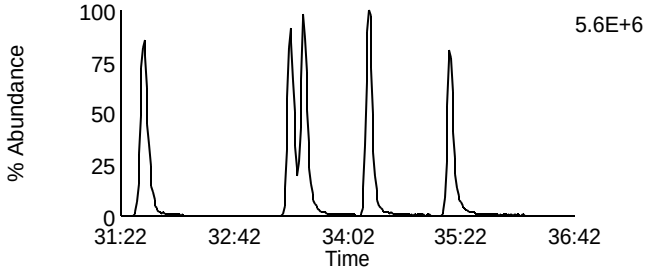


Homologue Group: Hexas

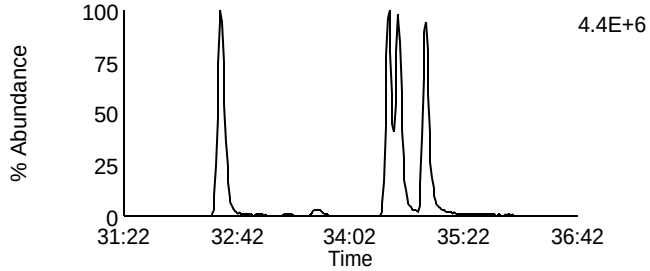
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

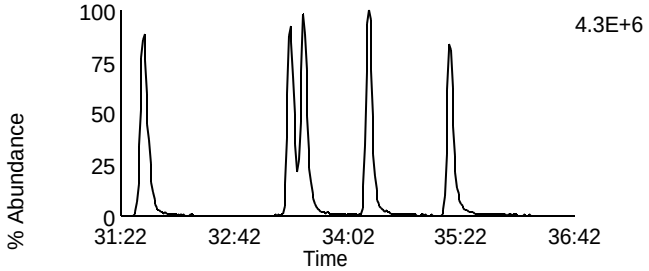
Data File: F131106A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - BAL TC



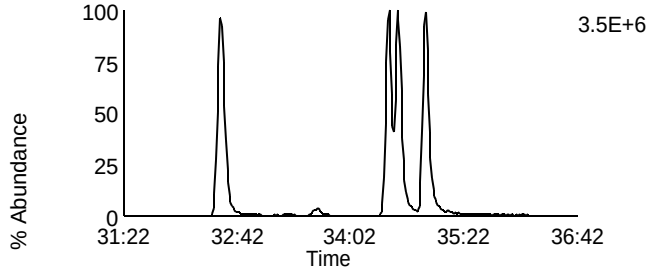
Data File: F131106A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - BAL TC



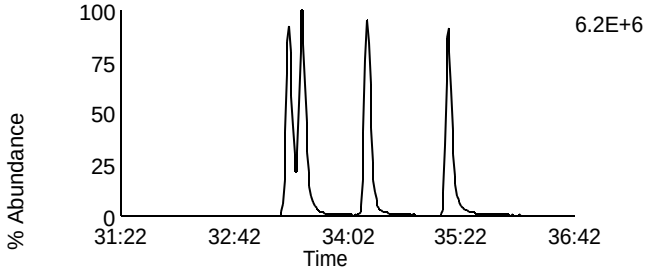
Data File: F131106A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - BAL TC



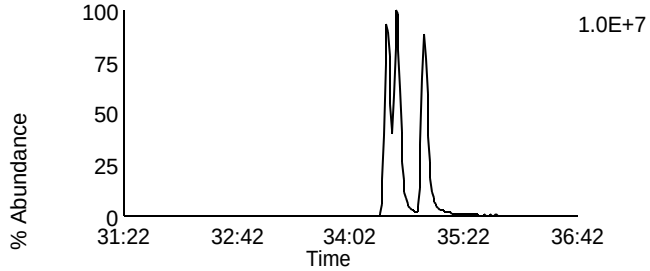
Data File: F131106A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - BAL TC



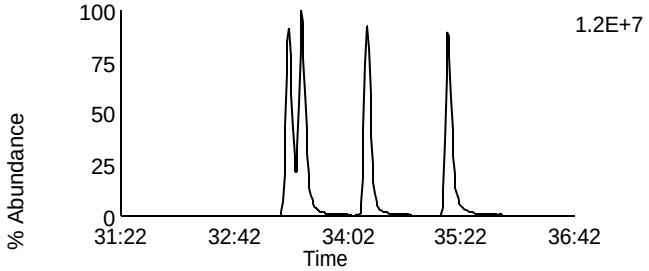
Data File: F131106A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - BAL TC



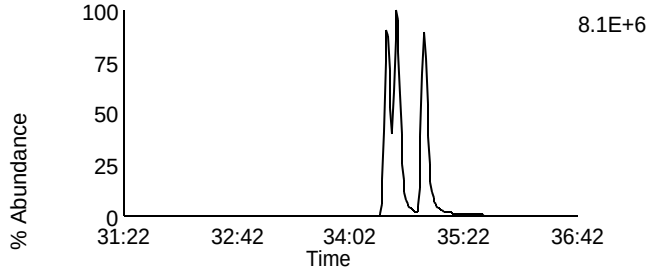
Data File: F131106A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - BAL TC



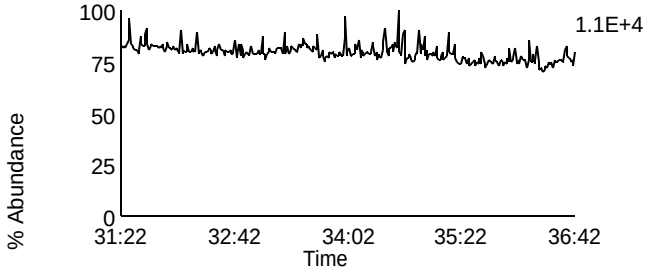
Data File: F131106A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - BAL TC



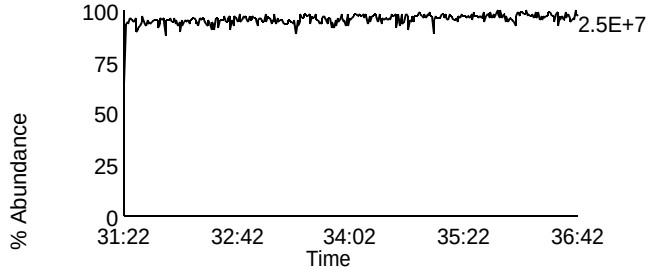
Data File: F131106A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - BAL TC

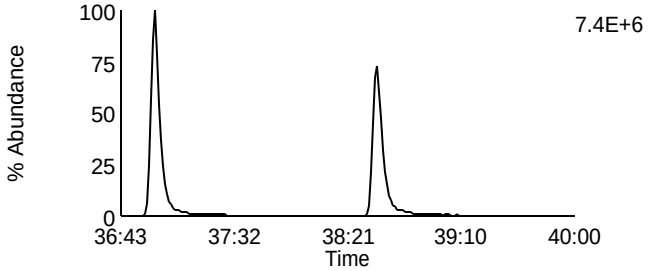


Homologue Group: Heptas

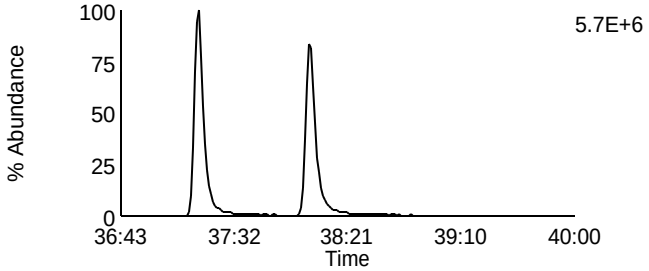
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

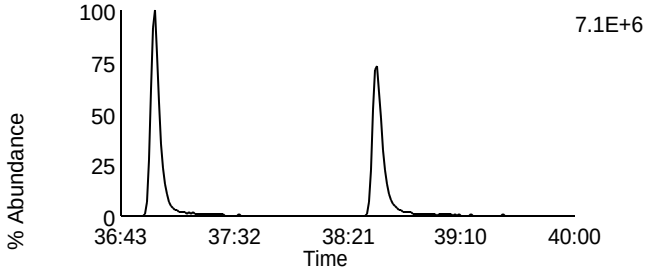
Data File: F131106A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - BAL TC



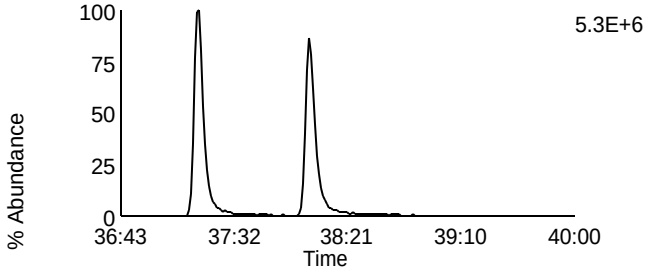
Data File: F131106A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - BAL TC



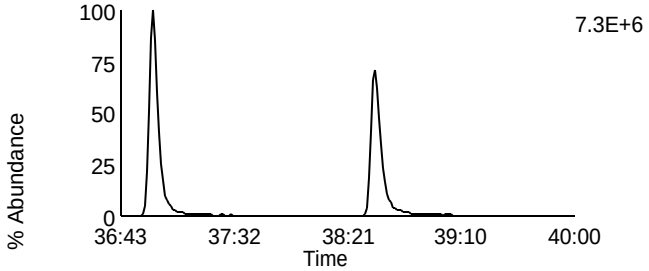
Data File: F131106A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - BAL TC



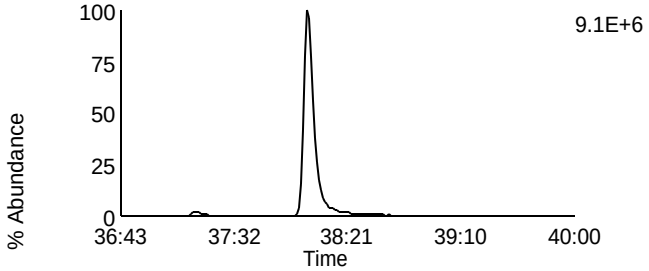
Data File: F131106A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - BAL TC



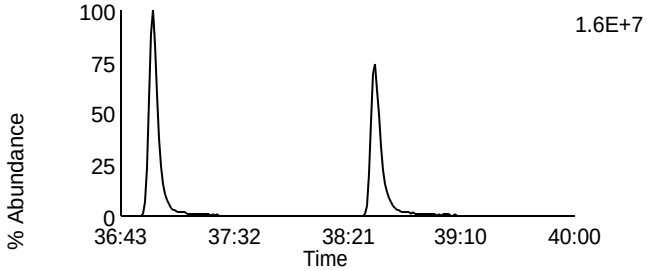
Data File: F131106A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - BAL TC



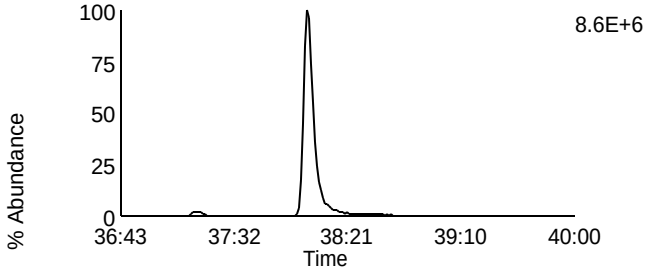
Data File: F131106A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - BAL TC



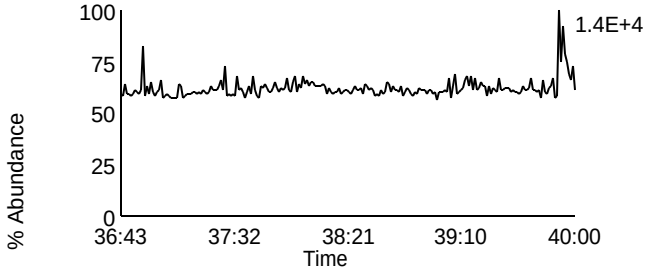
Data File: F131106A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - BAL TC



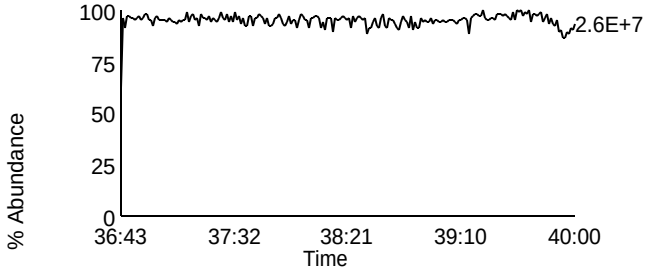
Data File: F131106A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - BAL TC

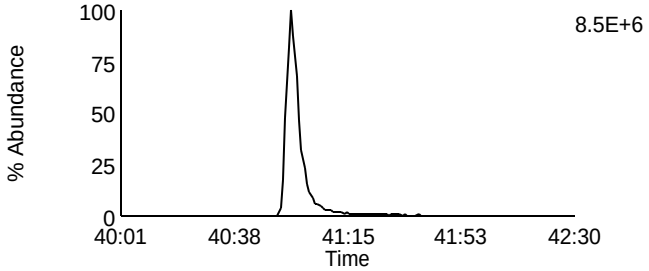


Homologue Group: Octas

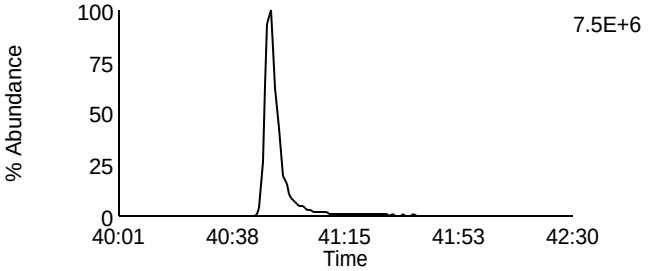
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

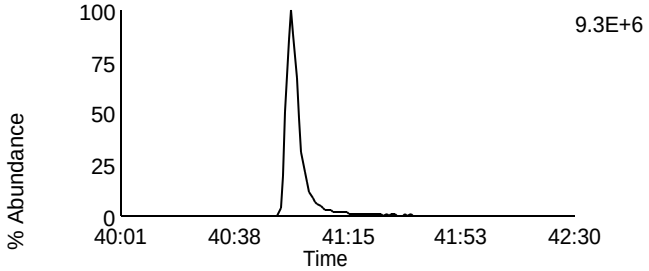
Data File: F131106A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - BAL TC



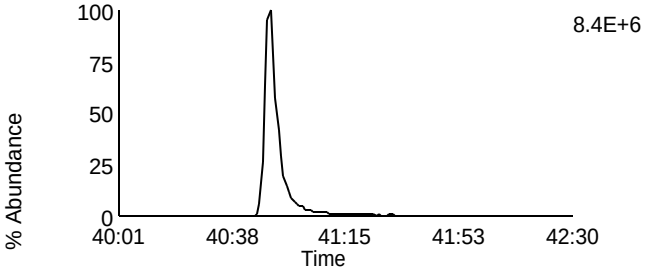
Data File: F131106A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - BAL TC



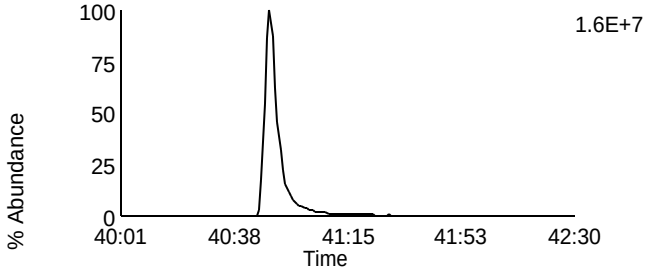
Data File: F131106A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - BAL TC



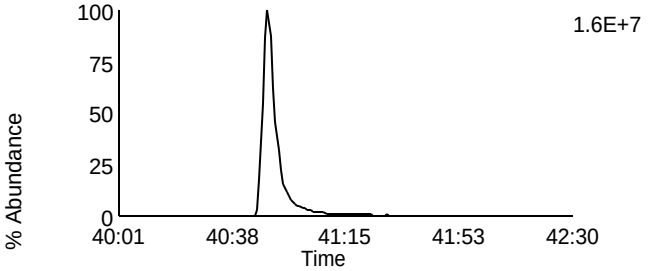
Data File: F131106A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - BAL TC



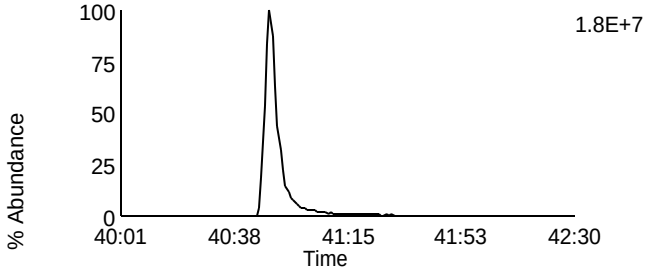
Data File: F131106A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL TC



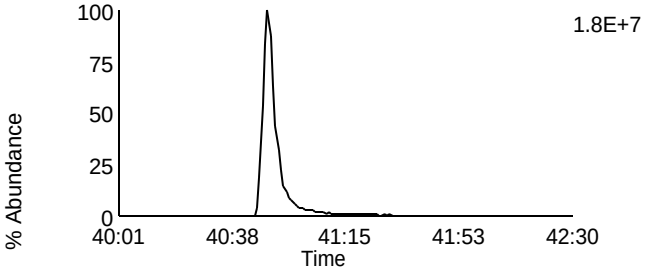
Data File: F131106A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL TC



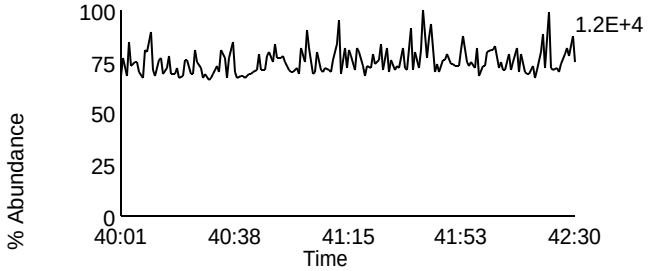
Data File: F131106A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL TC



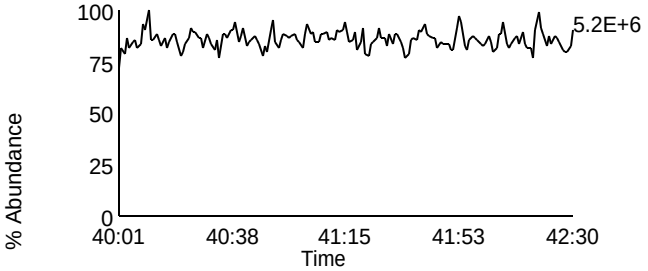
Data File: F131106A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - BAL TC

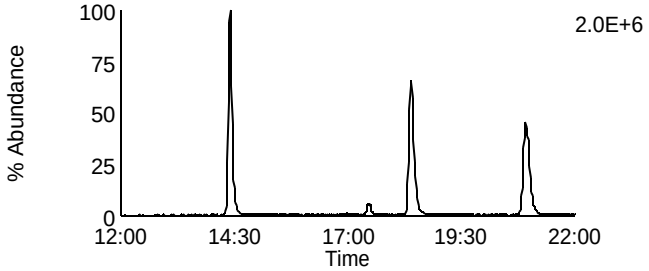


Homologue Group: Tetras

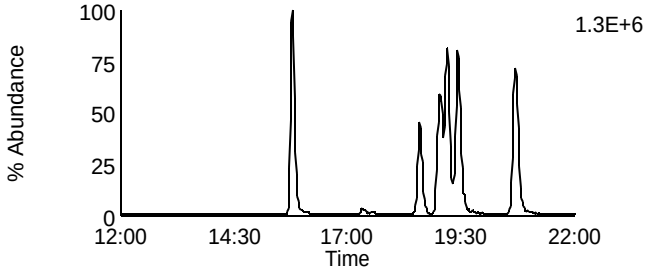
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

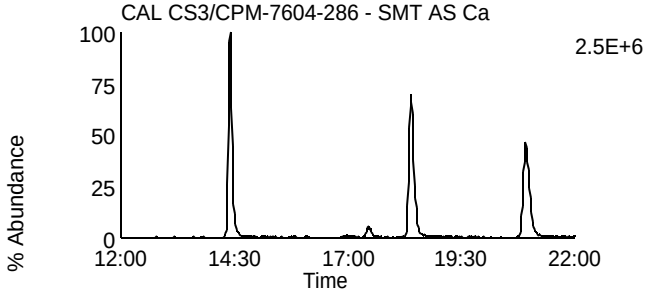
Data File: F131107A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT AS Ca



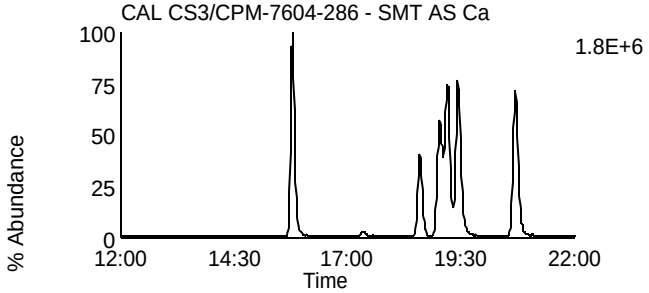
Data File: F131107A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT AS Ca



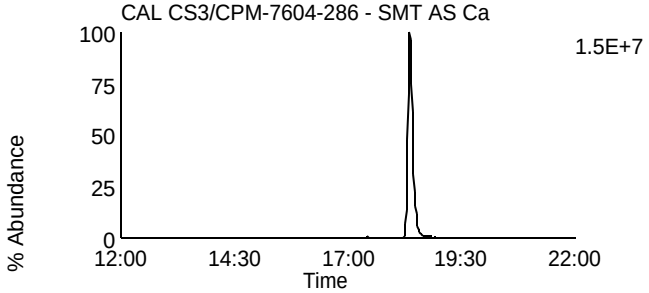
Data File: F131107A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT AS Ca



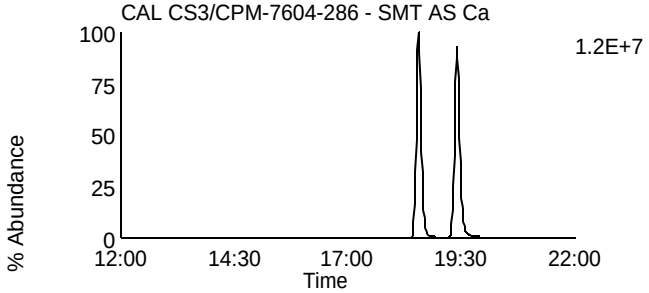
Data File: F131107A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT AS Ca



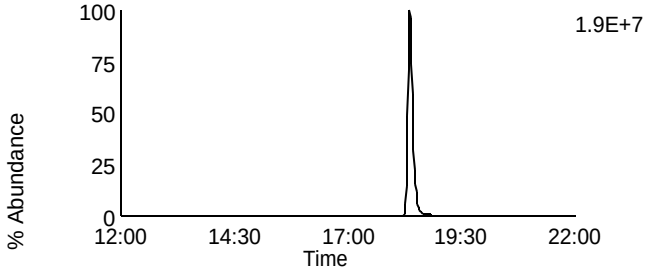
Data File: F131107A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT AS Ca



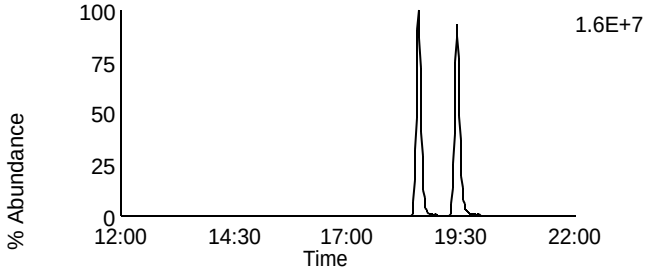
Data File: F131107A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT AS Ca



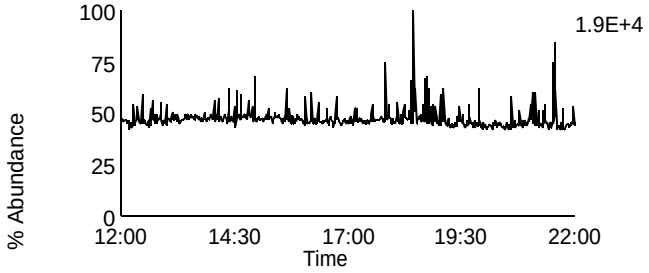
Data File: F131107A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT AS Ca



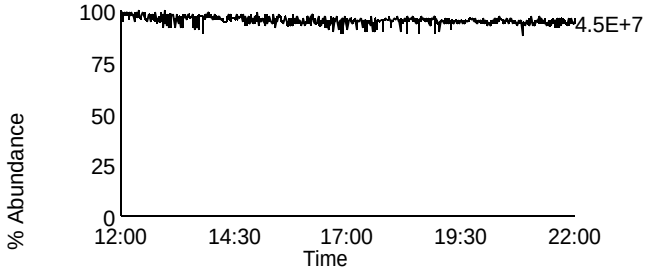
Data File: F131107A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

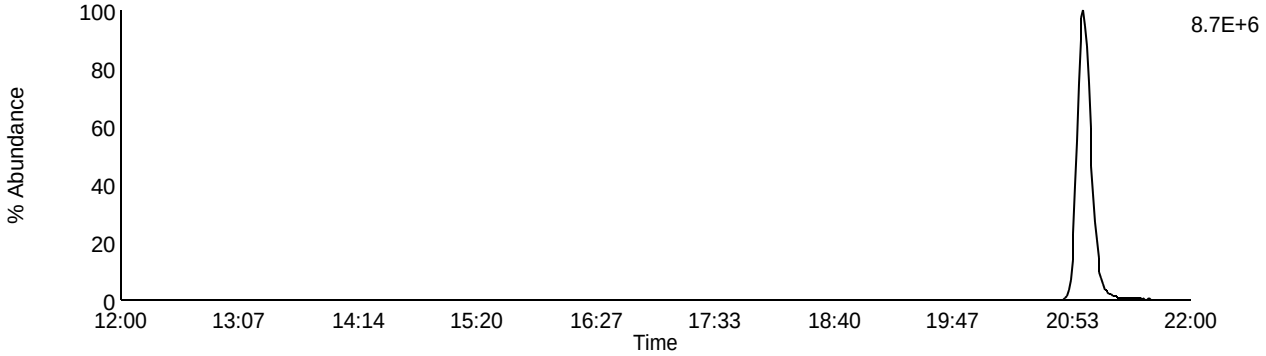


Homologue Group: Penta & Cleanup

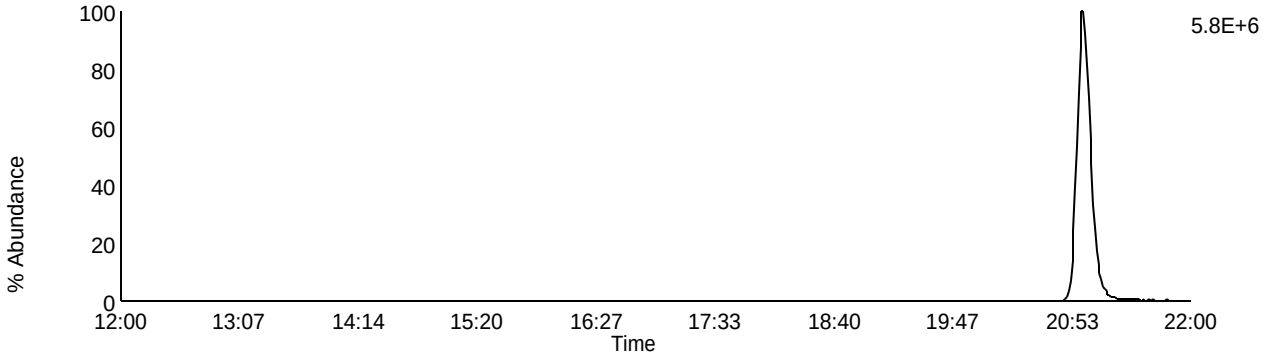
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

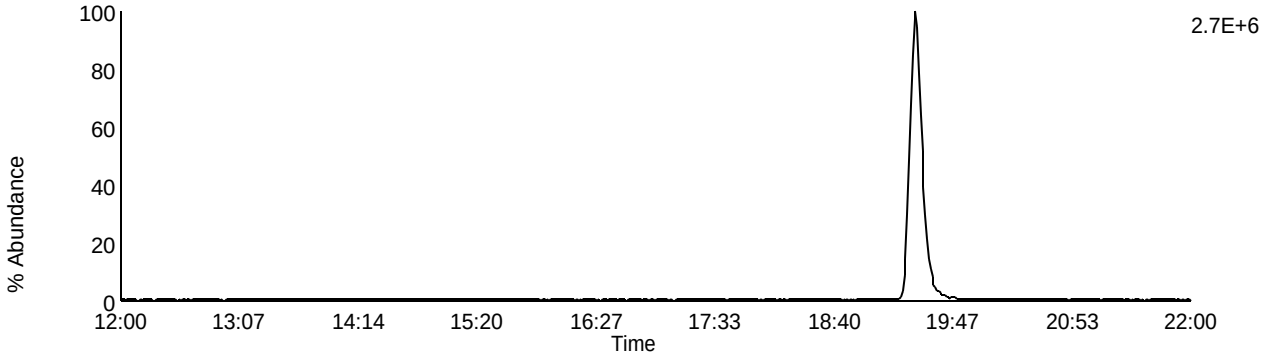
Data File: F131107A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT AS Ca



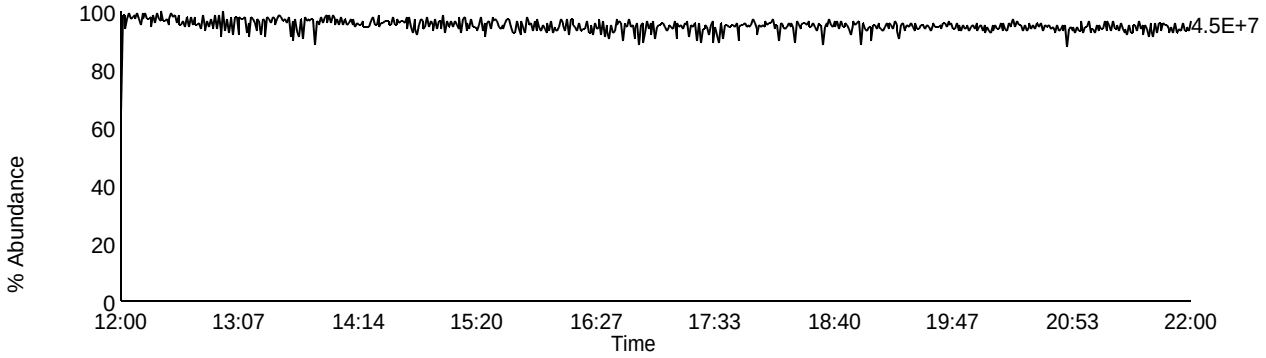
Data File: F131107A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

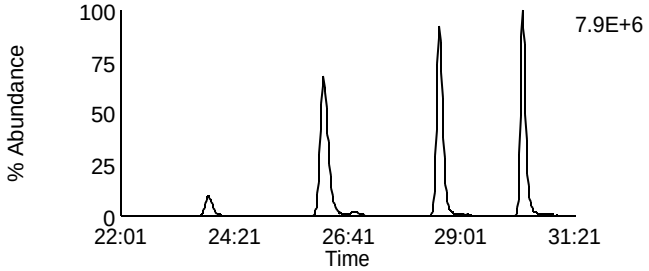


Homologue Group: Pentas

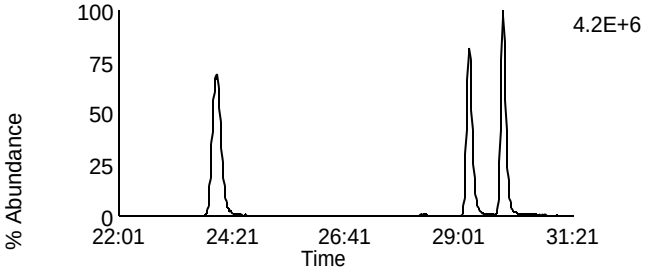
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

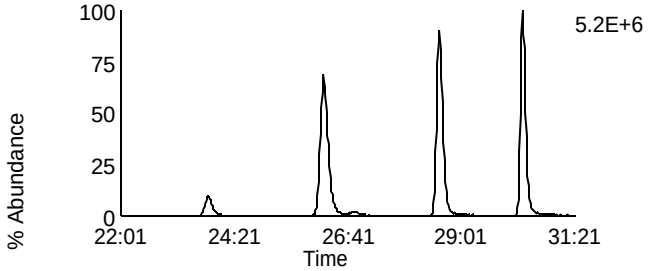
Data File: F131107A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT AS Ca



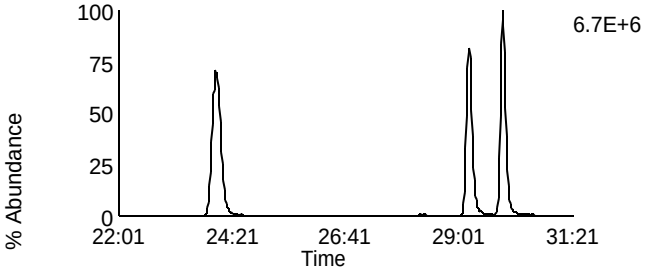
Data File: F131107A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT AS Ca



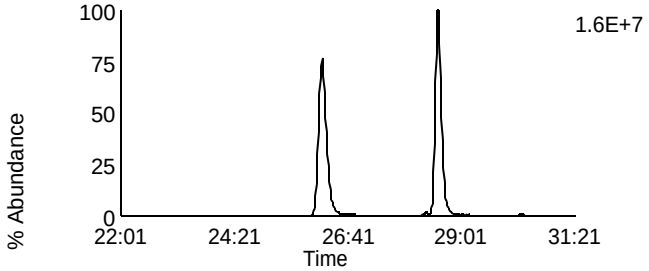
Data File: F131107A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT AS Ca



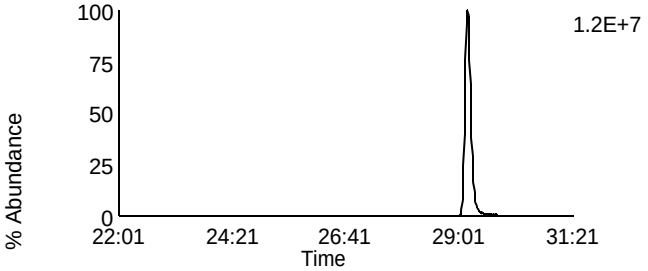
Data File: F131107A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT AS Ca



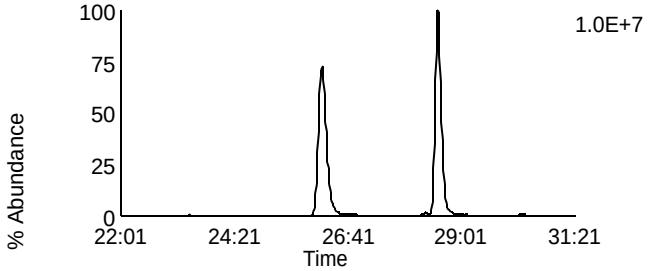
Data File: F131107A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT AS Ca



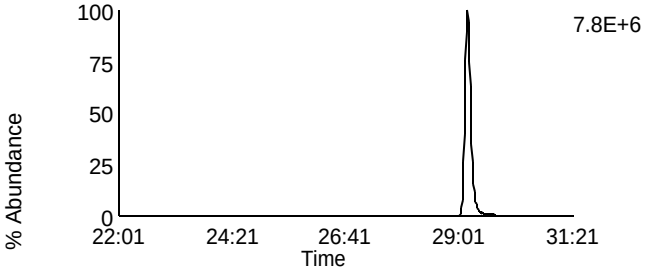
Data File: F131107A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT AS Ca



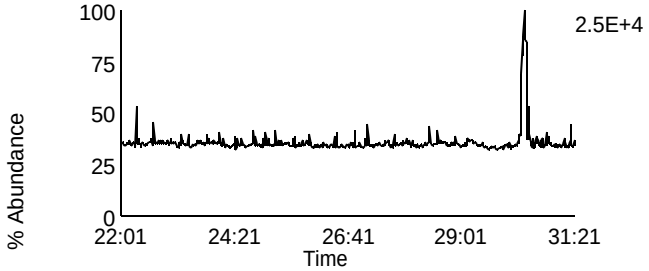
Data File: F131107A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT AS Ca



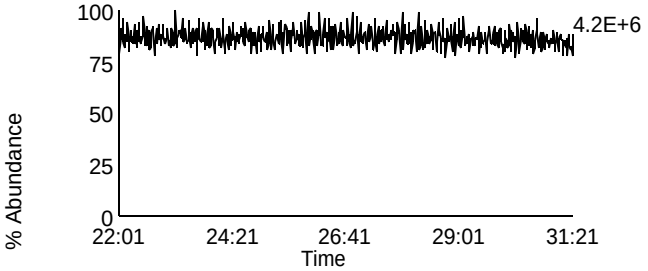
Data File: F131107A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

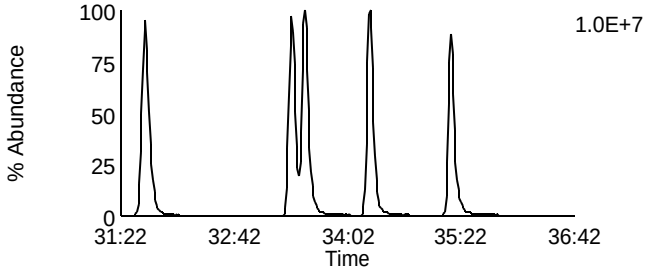


Homologue Group: Hexas

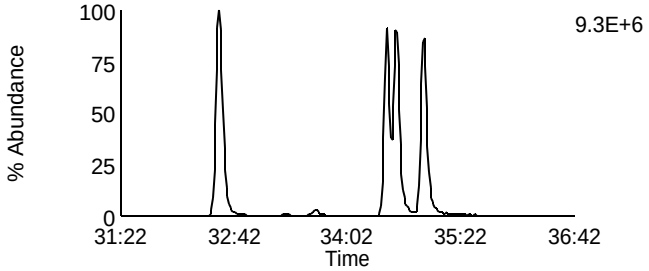
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

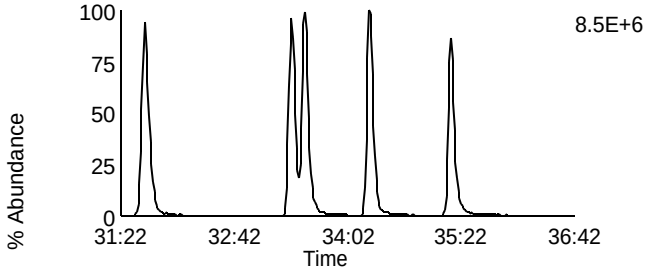
Data File: F131107A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT AS Ca



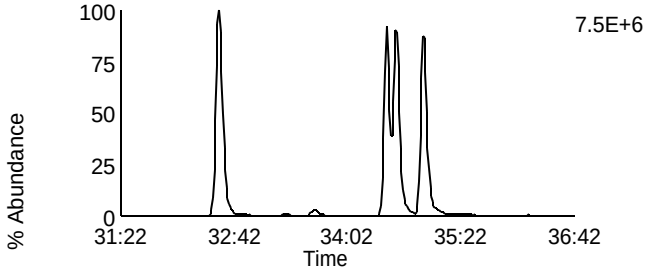
Data File: F131107A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT AS Ca



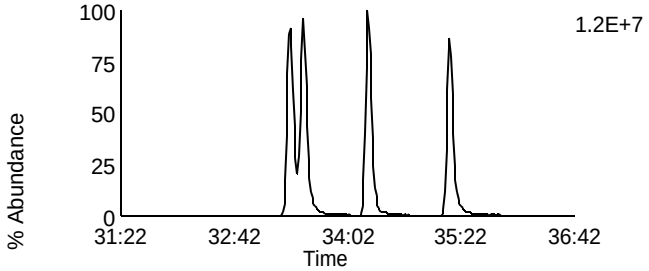
Data File: F131107A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT AS Ca



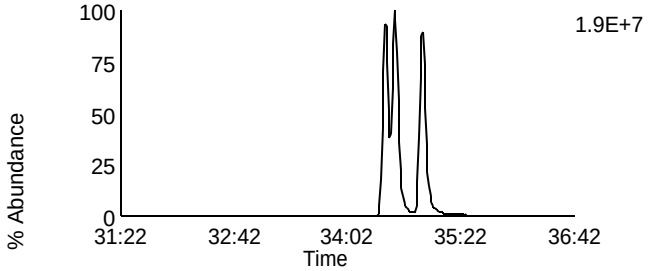
Data File: F131107A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT AS Ca



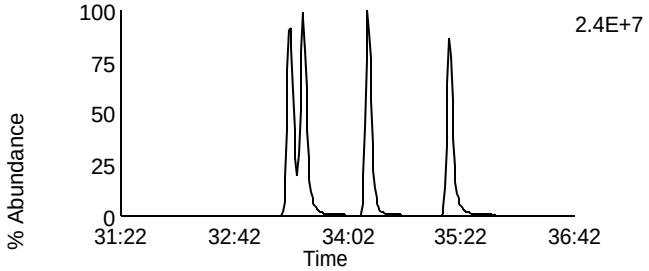
Data File: F131107A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT AS Ca



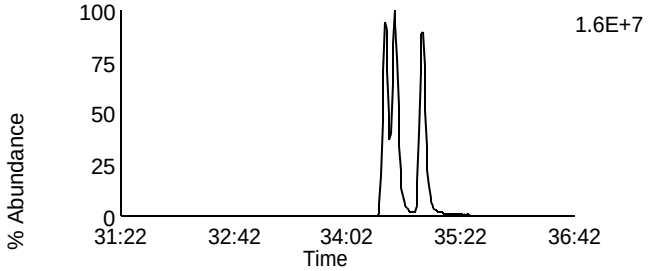
Data File: F131107A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT AS Ca



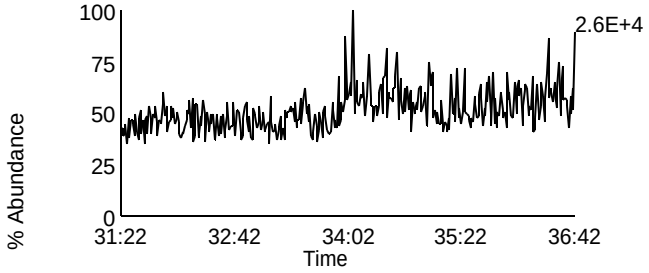
Data File: F131107A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT AS Ca



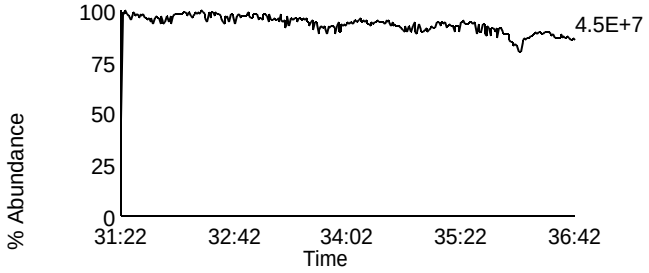
Data File: F131107A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT AS Ca

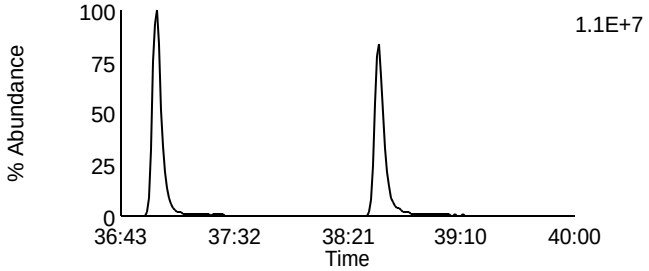


Homologue Group: Heptas

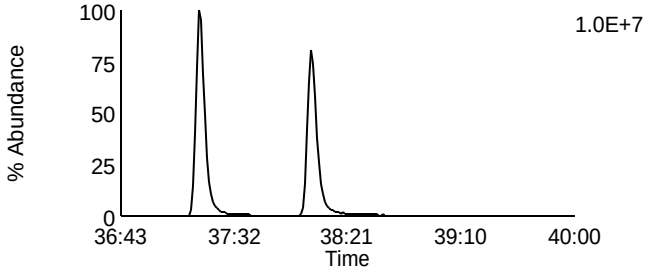
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

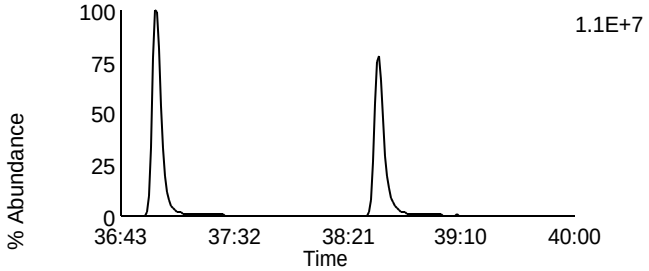
Data File: F131107A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT AS Ca



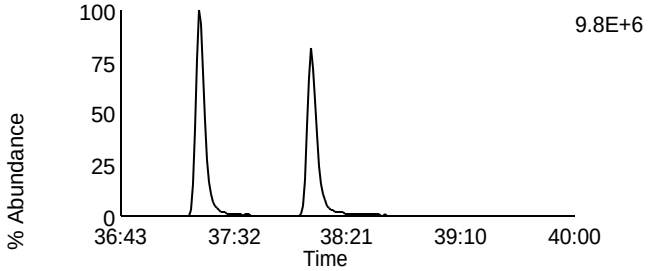
Data File: F131107A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT AS Ca



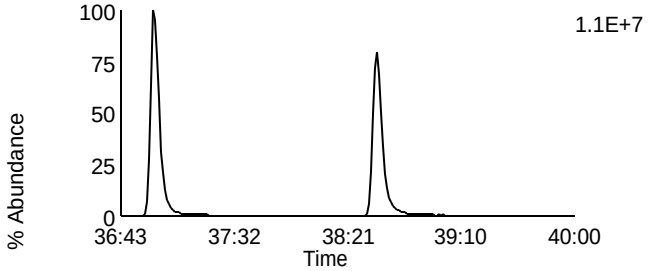
Data File: F131107A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT AS Ca



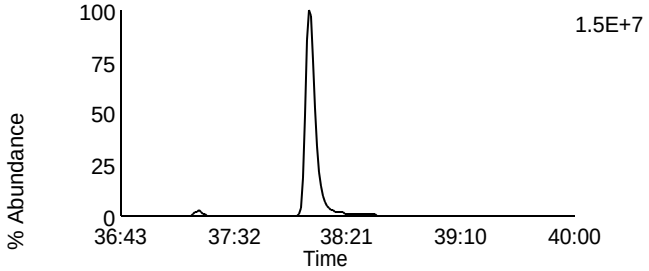
Data File: F131107A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT AS Ca



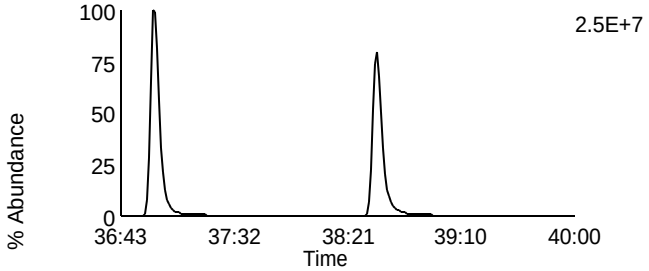
Data File: F131107A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT AS Ca



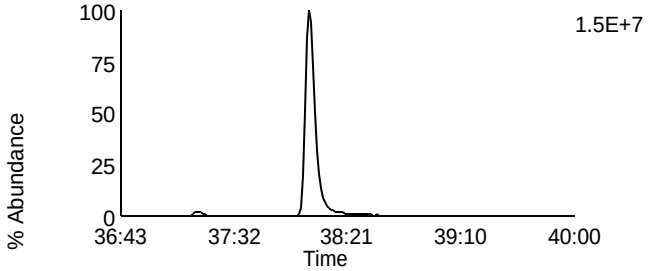
Data File: F131107A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT AS Ca



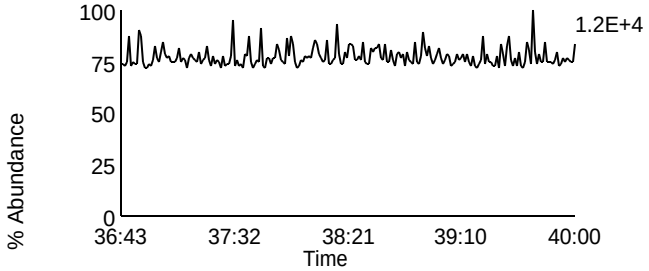
Data File: F131107A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT AS Ca



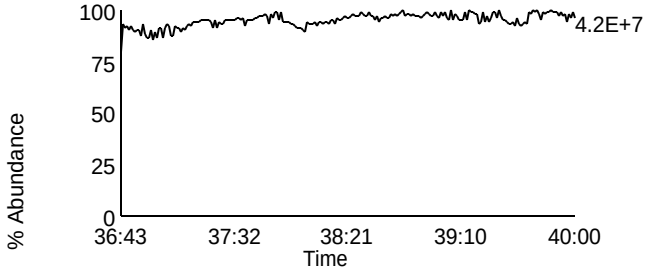
Data File: F131107A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT AS Ca

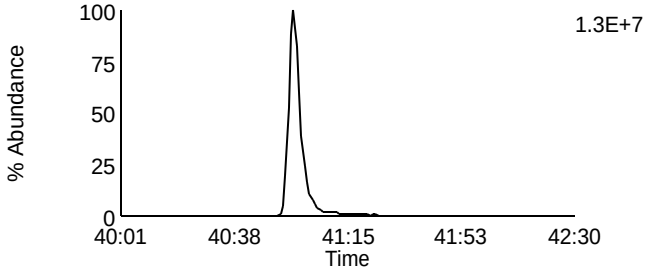


Homologue Group: Octas

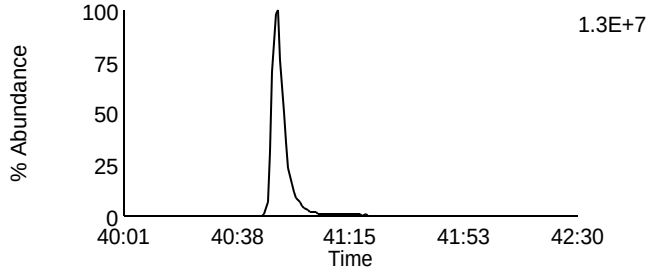
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

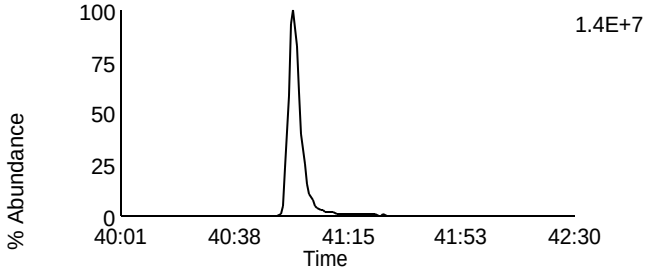
Data File: F131107A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT AS Ca



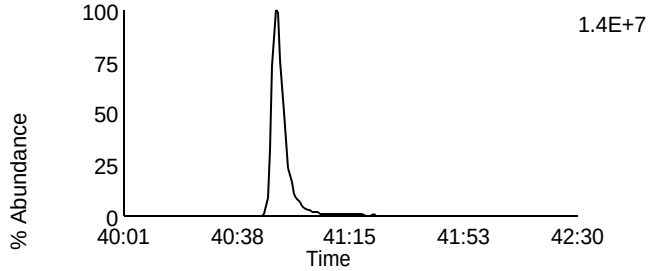
Data File: F131107A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT AS Ca



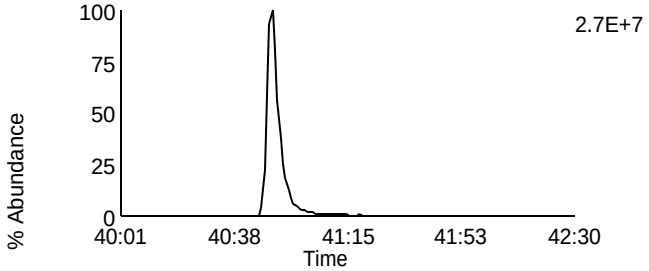
Data File: F131107A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT AS Ca



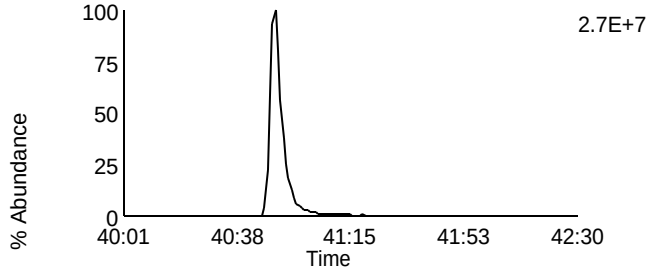
Data File: F131107A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT AS Ca



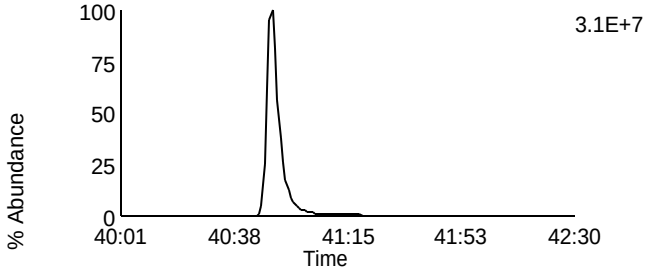
Data File: F131107A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT AS Ca



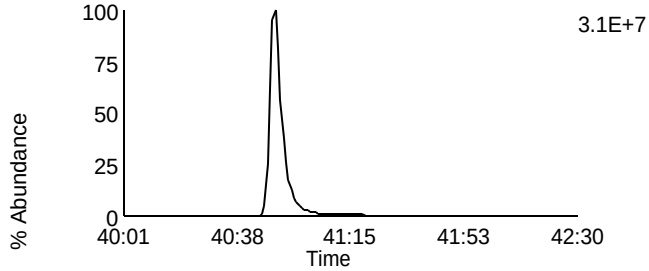
Data File: F131107A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT AS Ca



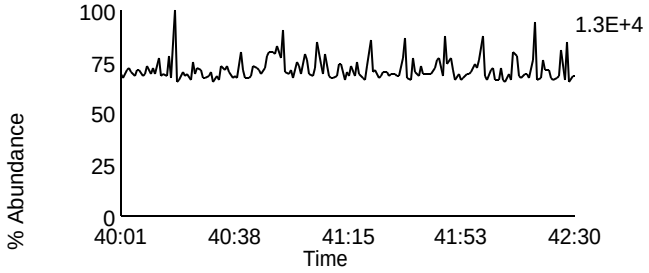
Data File: F131107A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT AS Ca



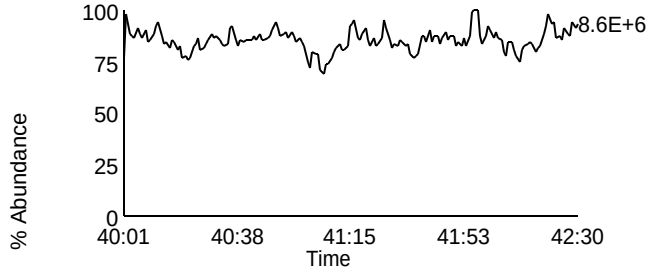
Data File: F131107A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT AS Ca

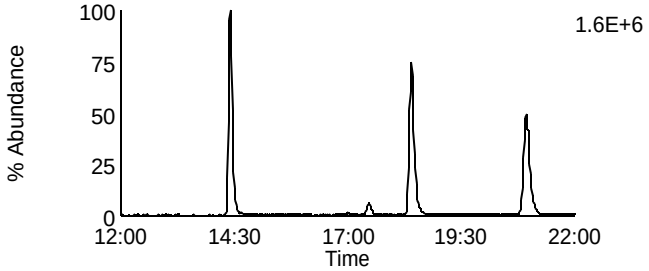


Homologue Group: Tetras

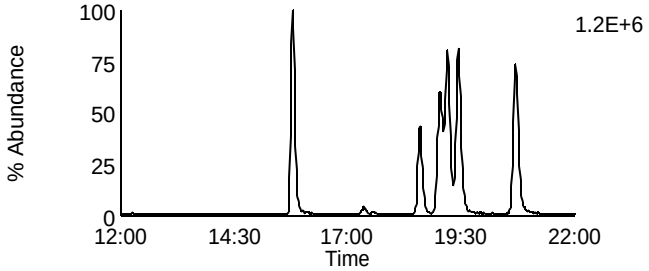
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

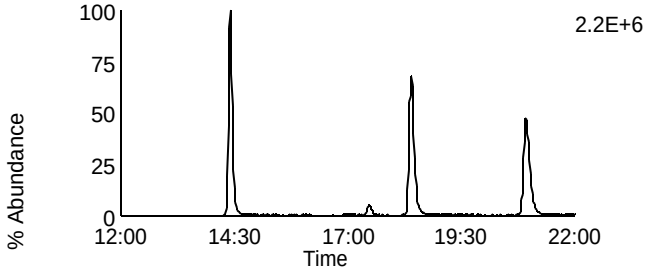
Data File: F131107B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT



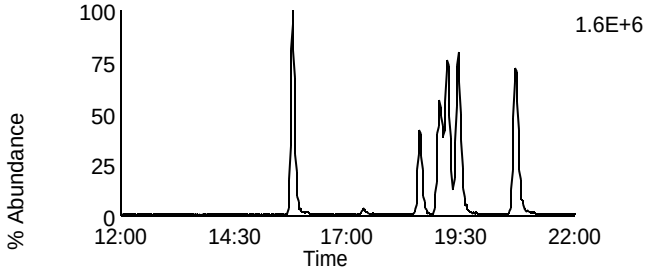
Data File: F131107B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT



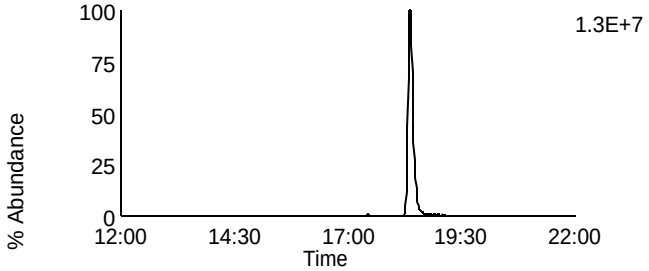
Data File: F131107B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT



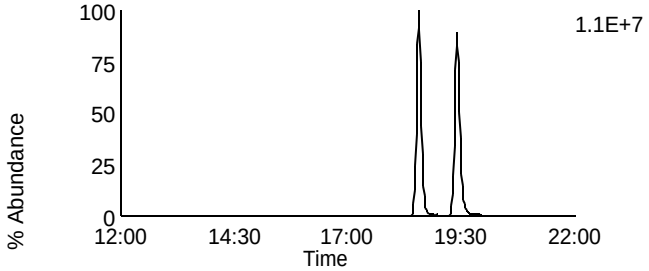
Data File: F131107B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT



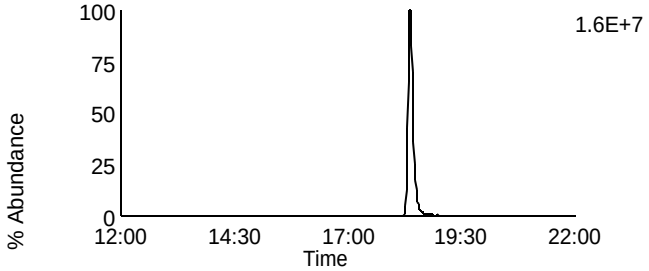
Data File: F131107B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT



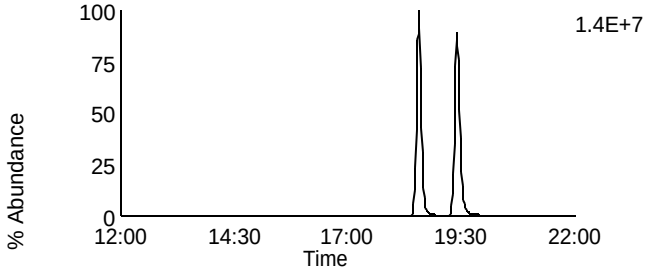
Data File: F131107B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT



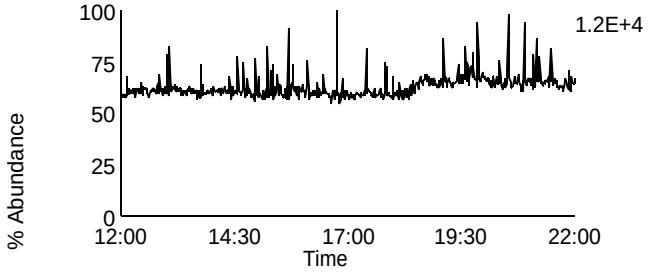
Data File: F131107B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT



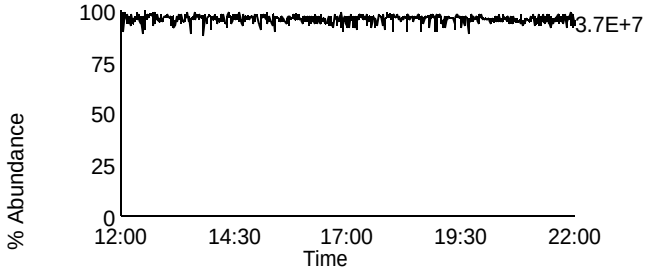
Data File: F131107B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

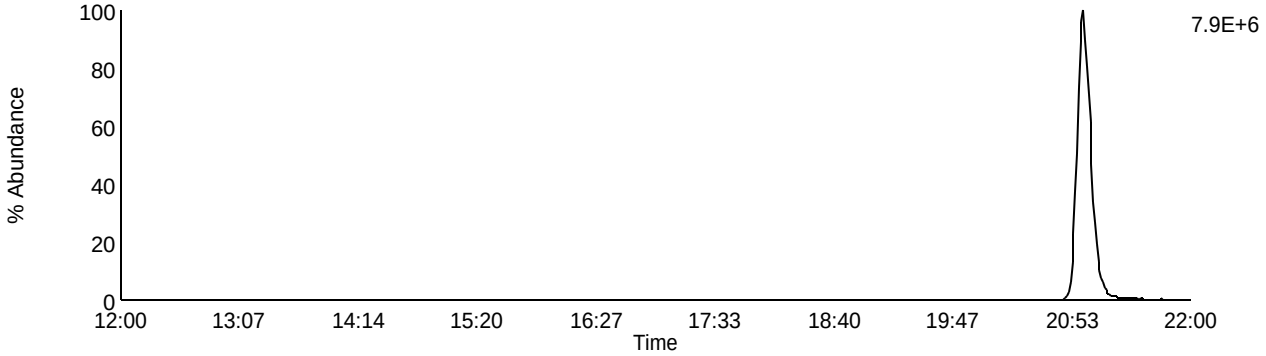


Homologue Group: Penta & Cleanup

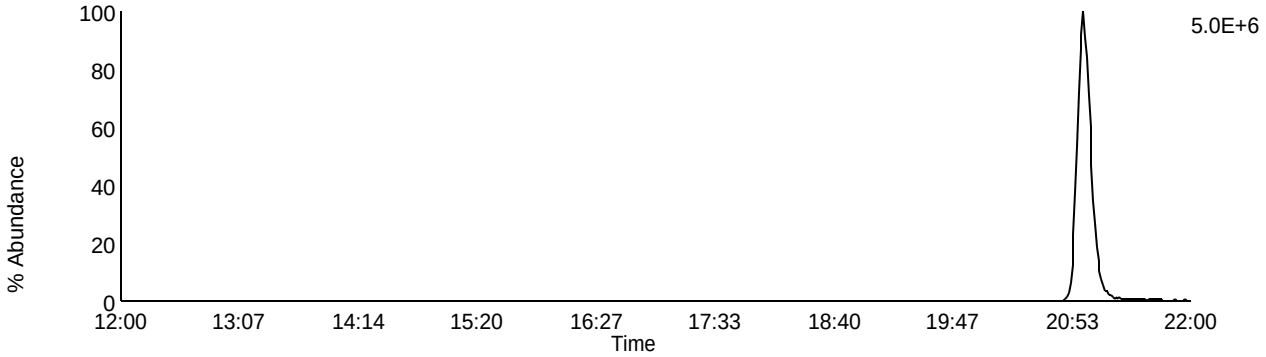
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

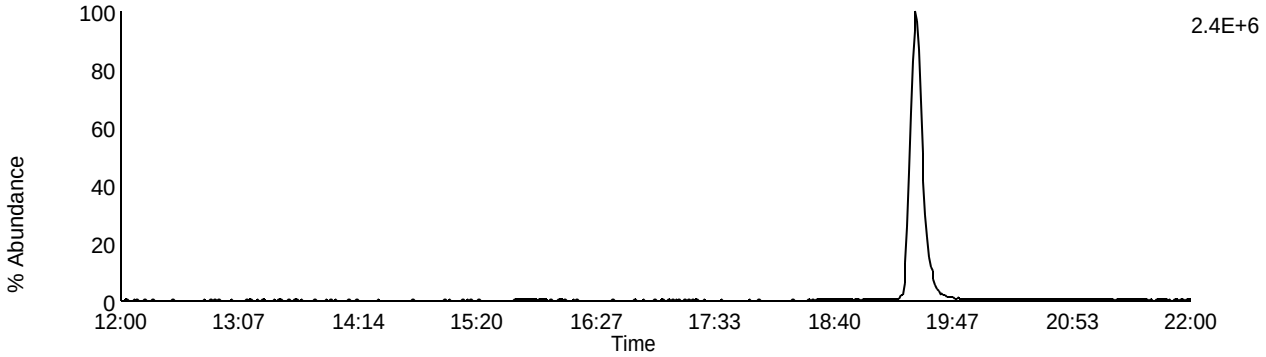
Data File: F131107B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT



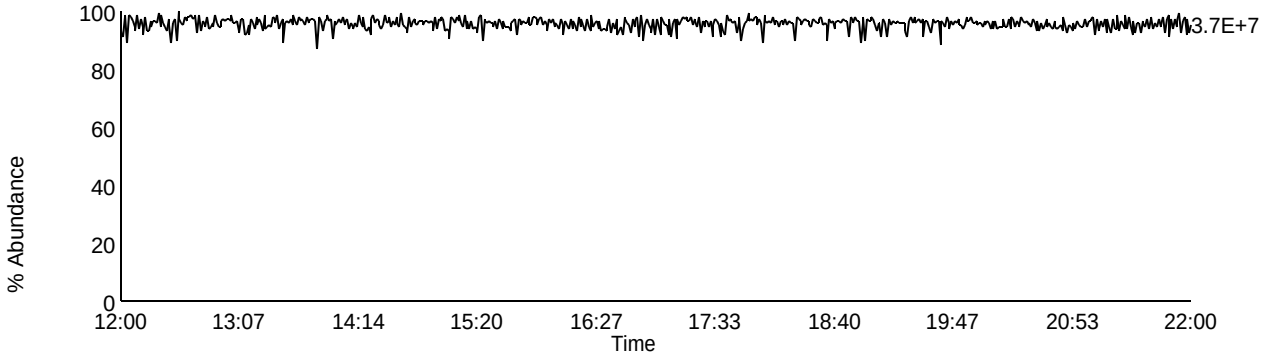
Data File: F131107B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

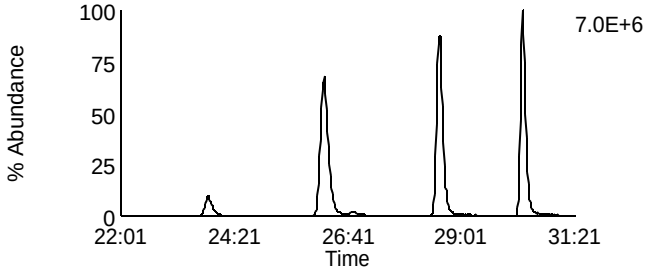


Homologue Group: Pentas

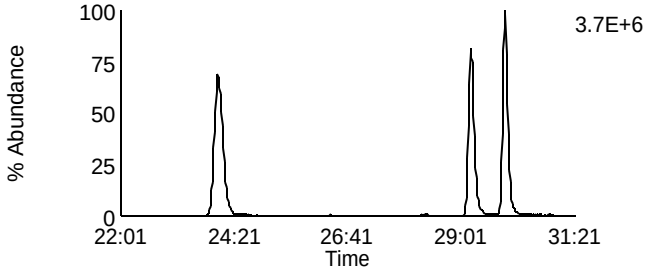
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

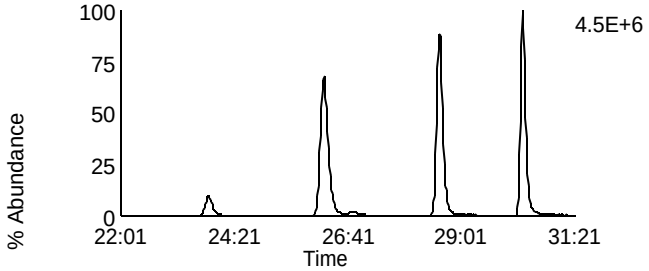
Data File: F131107B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT



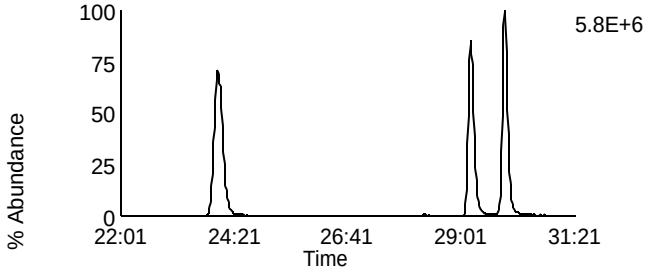
Data File: F131107B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT



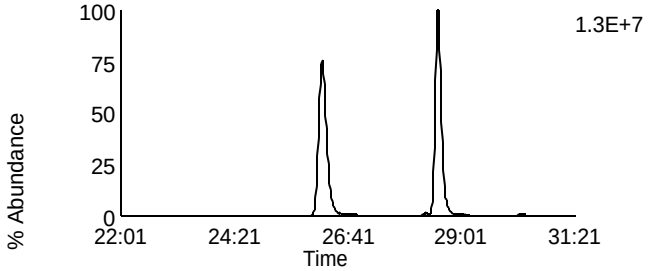
Data File: F131107B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT



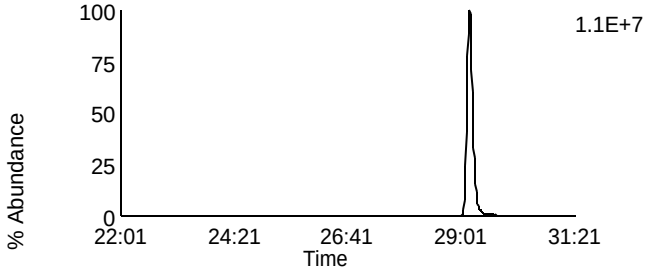
Data File: F131107B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT



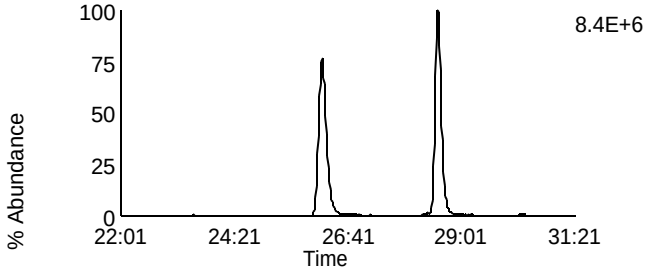
Data File: F131107B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT



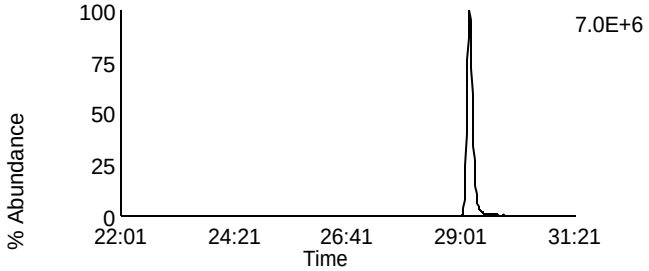
Data File: F131107B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT



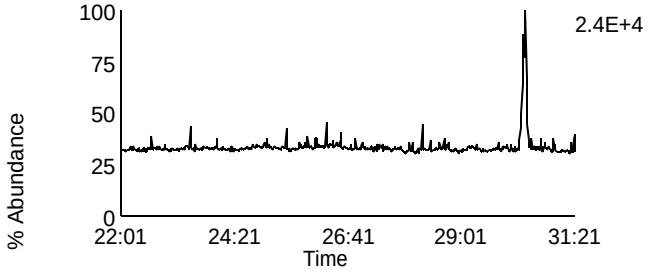
Data File: F131107B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT



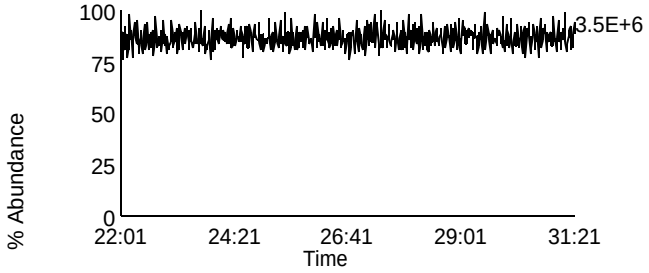
Data File: F131107B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT

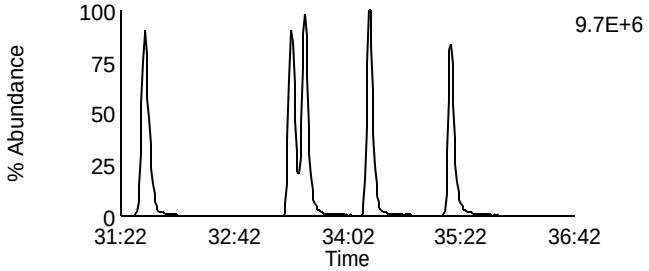


Homologue Group: Hexas

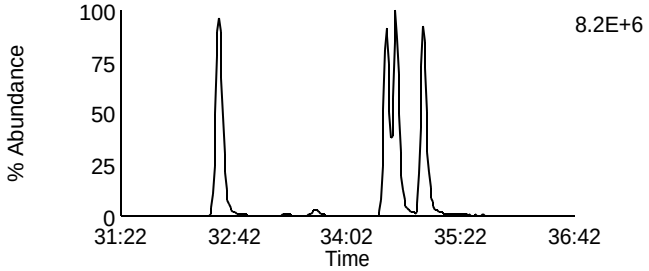
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

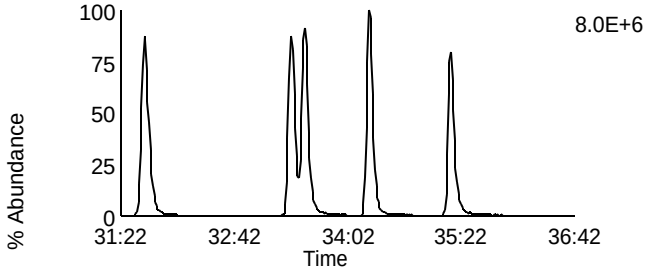
Data File: F131107B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT



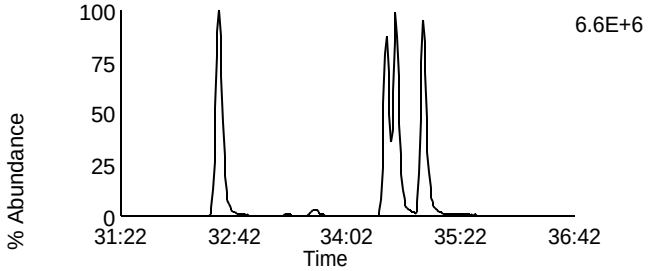
Data File: F131107B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT



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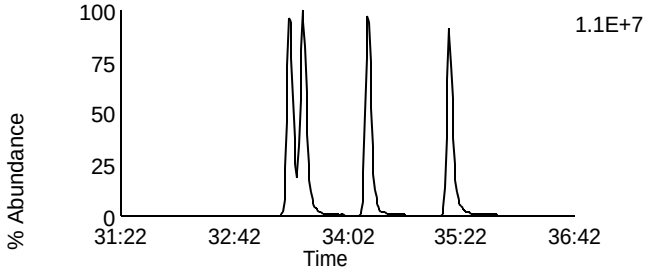
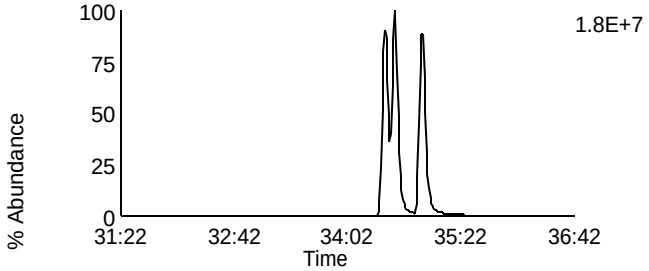
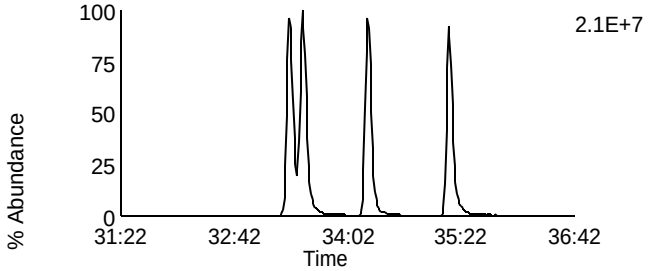
CAL CS3/CPM-7604-286 - SMT



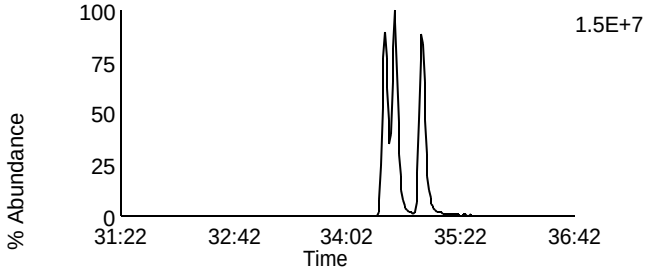
Data File: F131107B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT



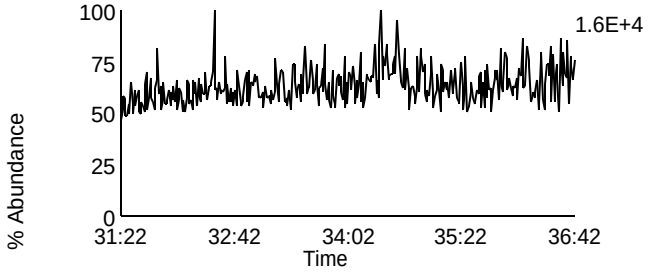
Data File: F131107B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT



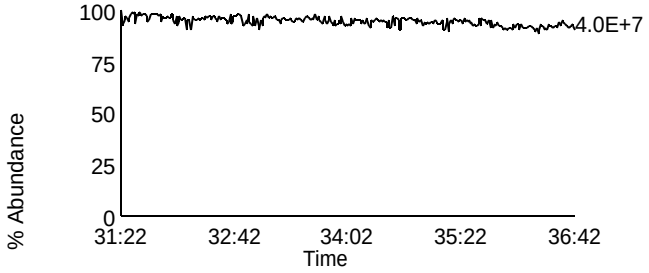
Data File: F131107B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT

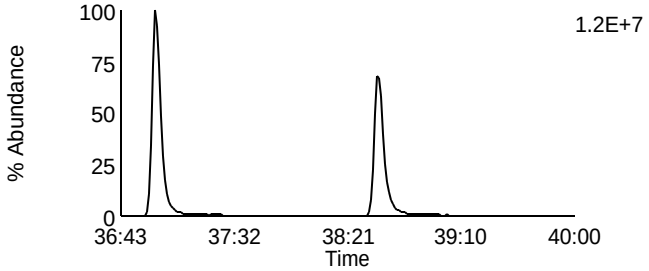


Homologue Group: Heptas

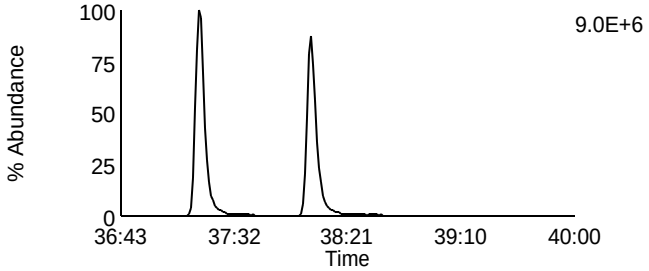
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

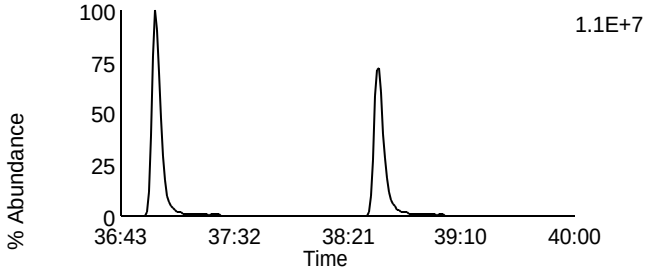
Data File: F131107B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT



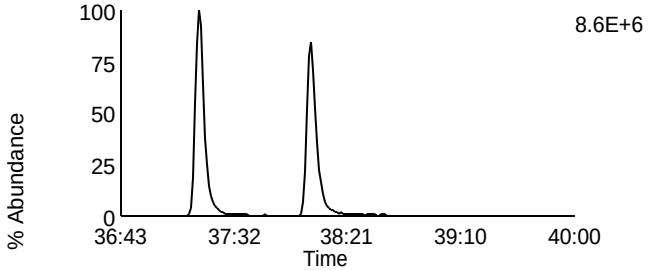
Data File: F131107B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT



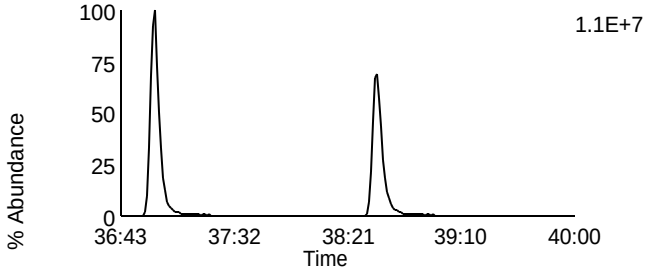
Data File: F131107B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT



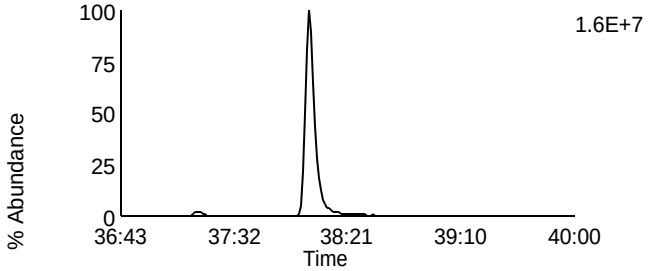
Data File: F131107B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT



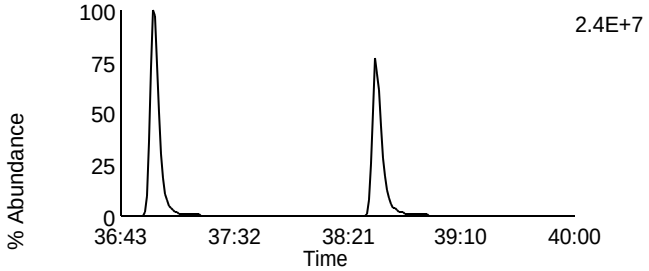
Data File: F131107B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT



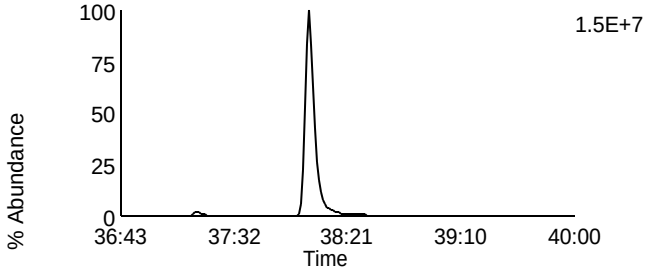
Data File: F131107B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT



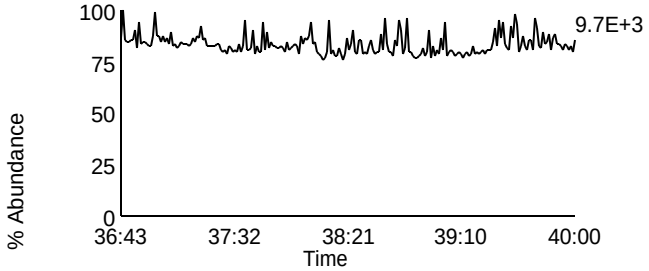
Data File: F131107B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT



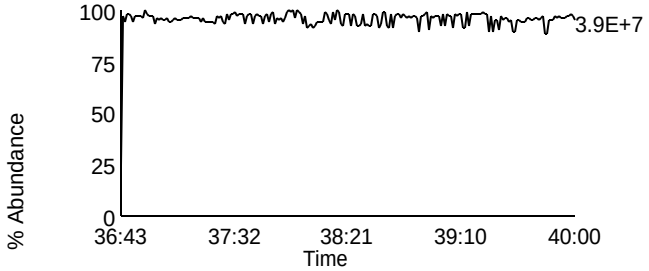
Data File: F131107B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT

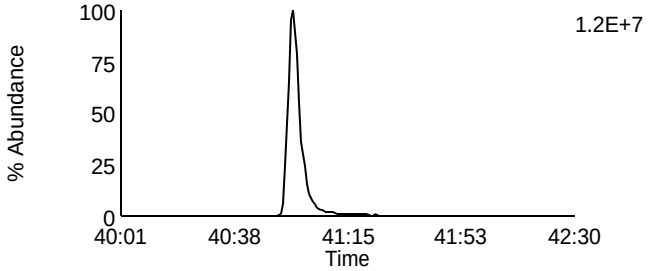


Homologue Group: Octas

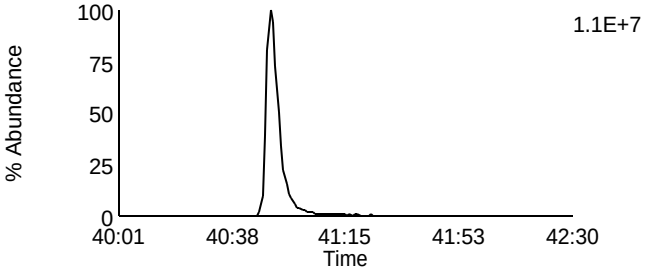
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR05 (F)

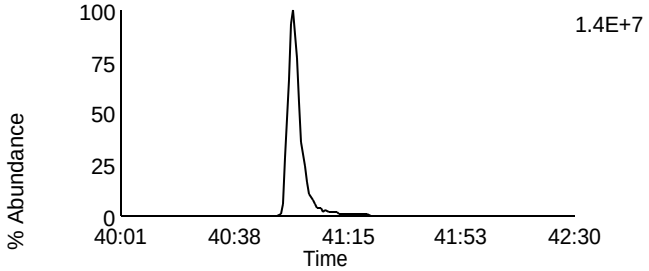
Data File: F131107B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT



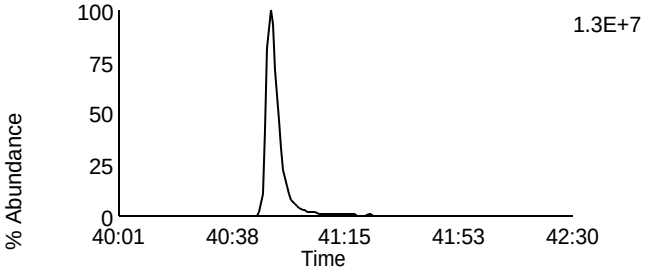
Data File: F131107B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT



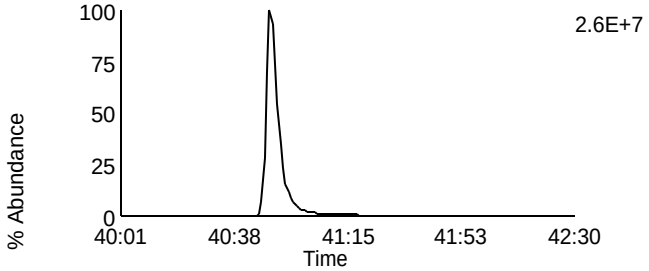
Data File: F131107B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT



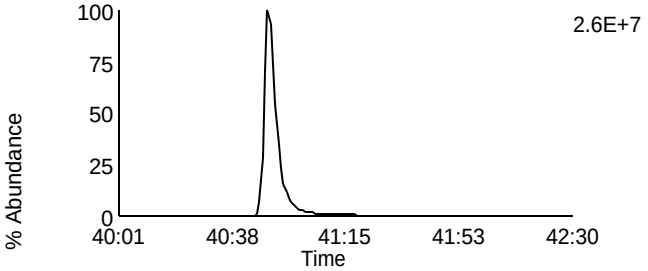
Data File: F131107B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT



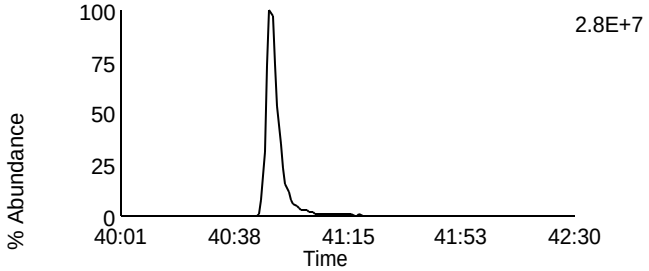
Data File: F131107B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



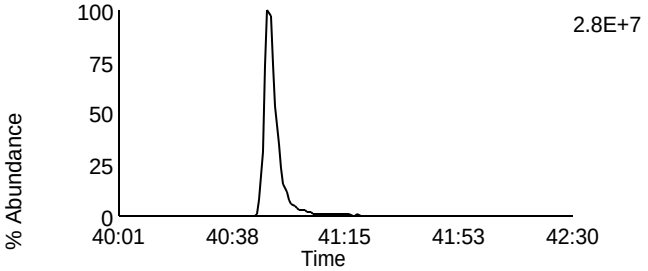
Data File: F131107B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



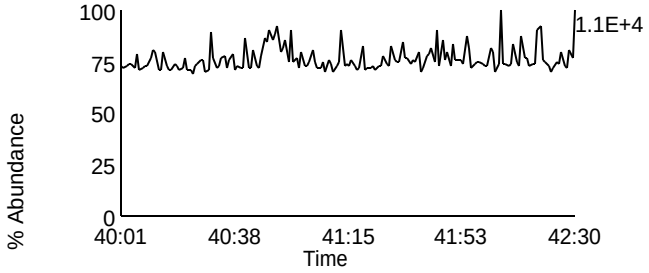
Data File: F131107B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



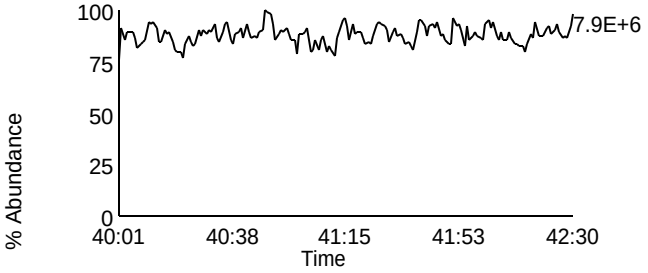
Data File: F131107B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT

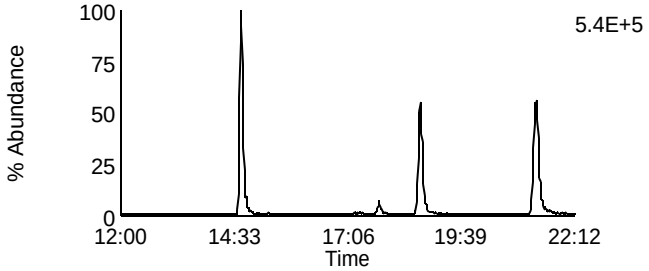


Homologue Group: Tetras

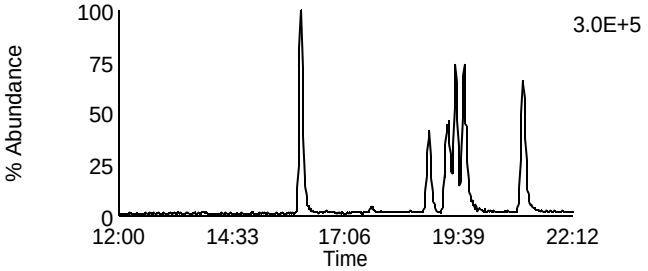
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

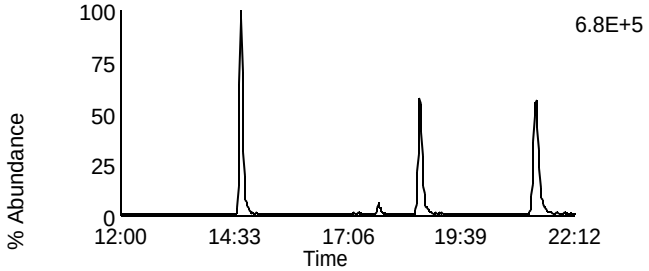
Data File: U131108A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - BAL



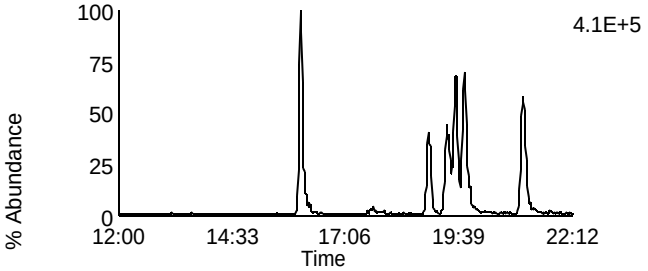
Data File: U131108A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - BAL



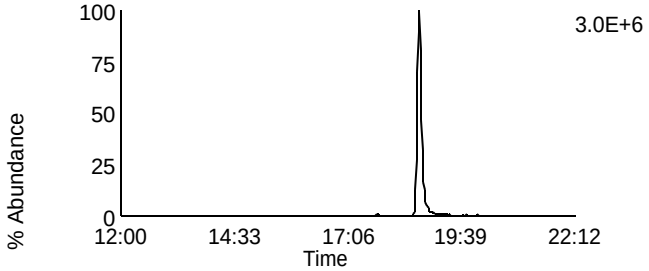
Data File: U131108A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - BAL



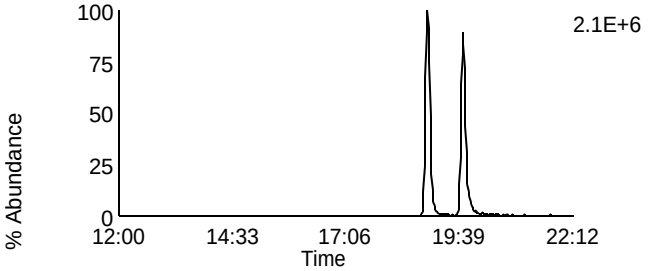
Data File: U131108A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - BAL



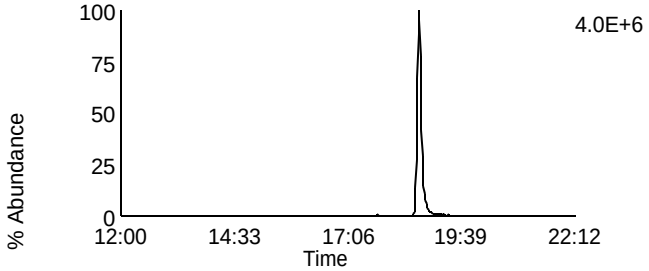
Data File: U131108A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - BAL



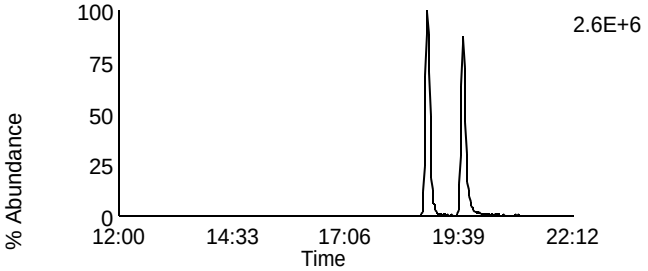
Data File: U131108A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - BAL



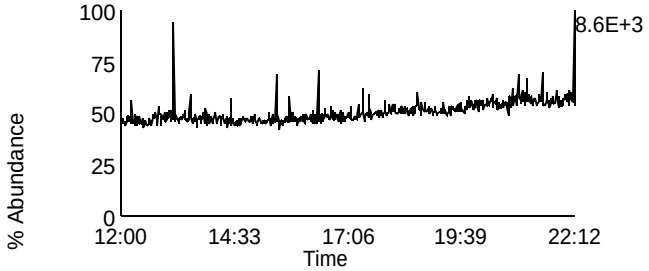
Data File: U131108A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - BAL



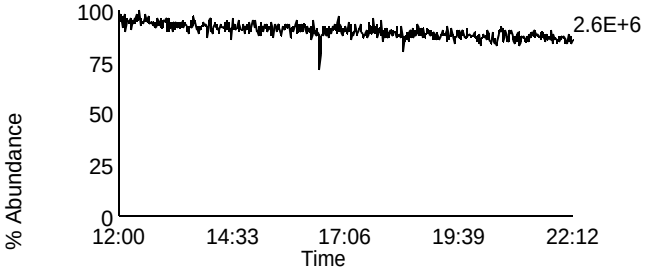
Data File: U131108A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL

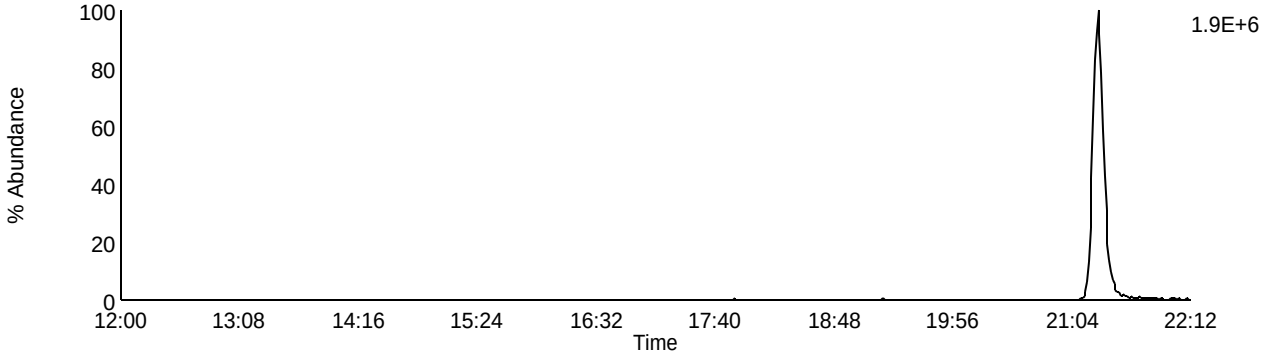


Homologue Group: Penta & Cleanup

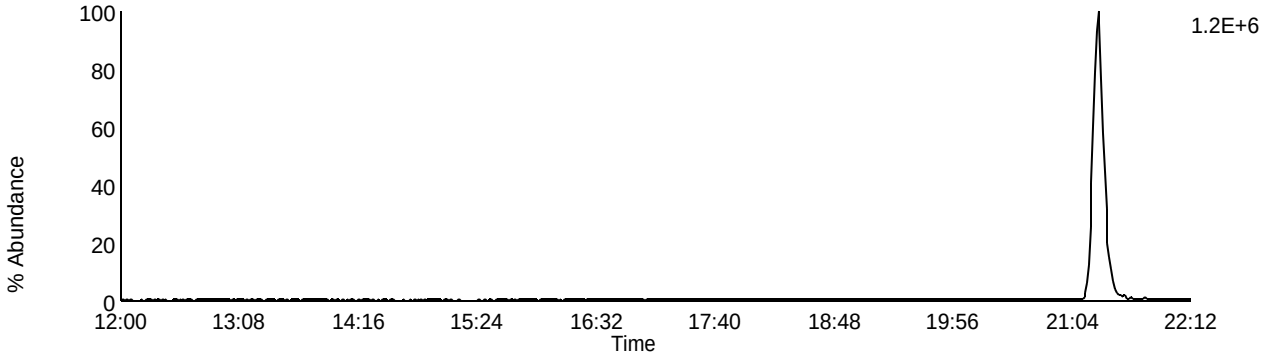
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

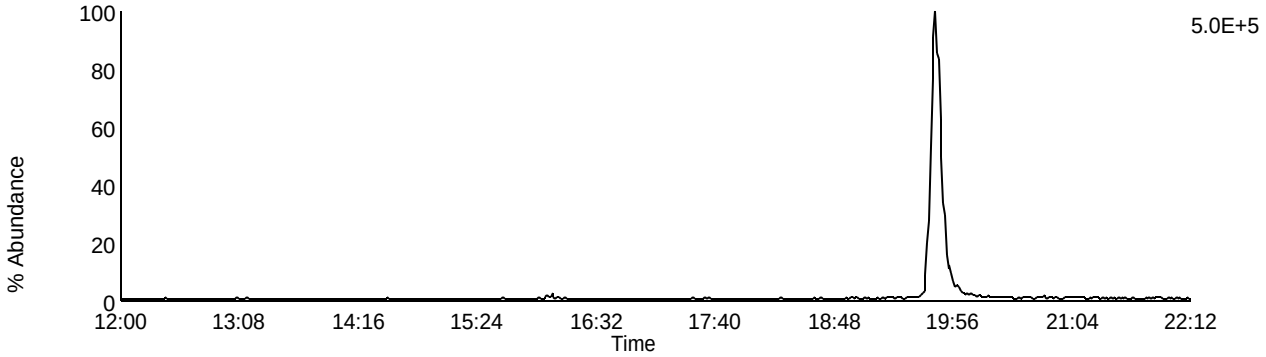
Data File: U131108A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - BAL



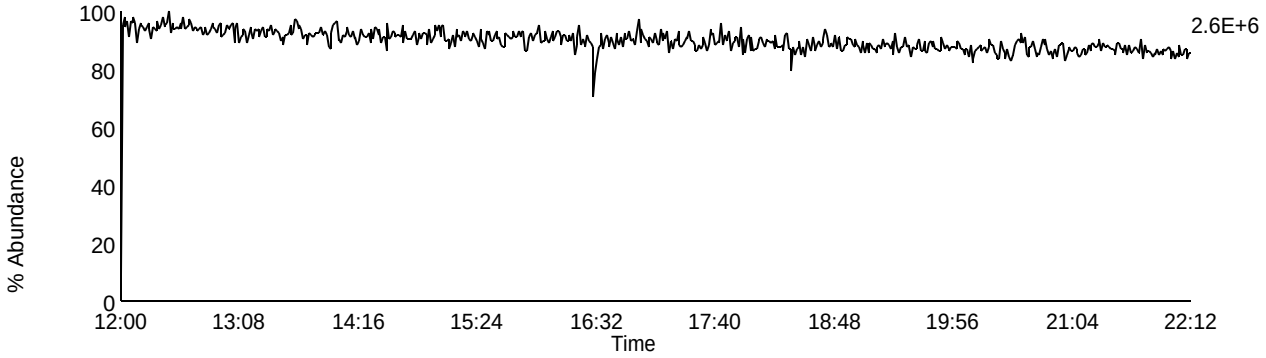
Data File: U131108A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL

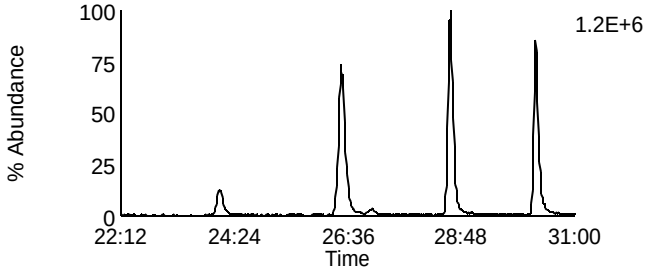


Homologue Group: Pentas

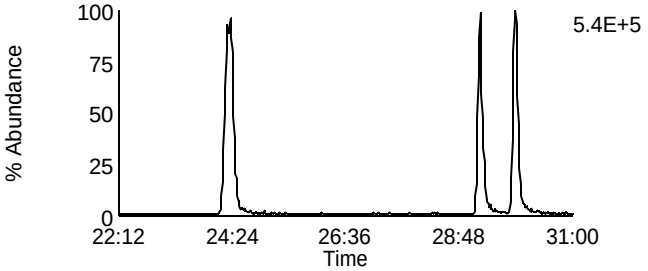
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

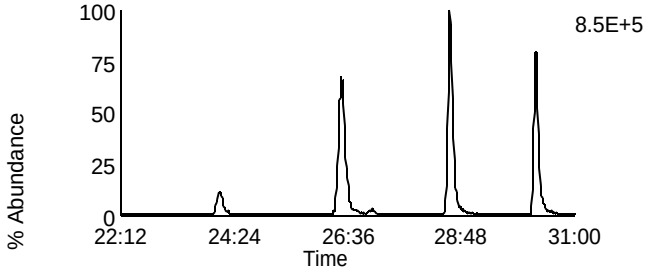
Data File: U131108A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - BAL



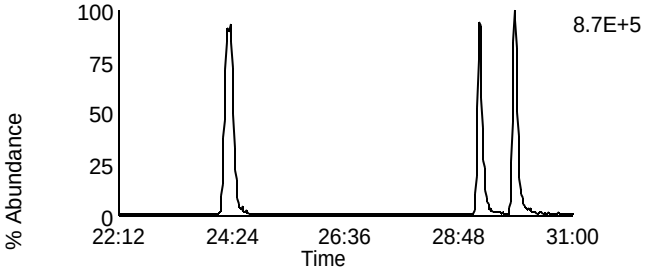
Data File: U131108A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - BAL



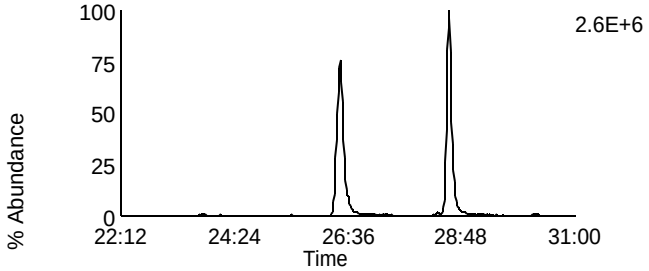
Data File: U131108A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - BAL



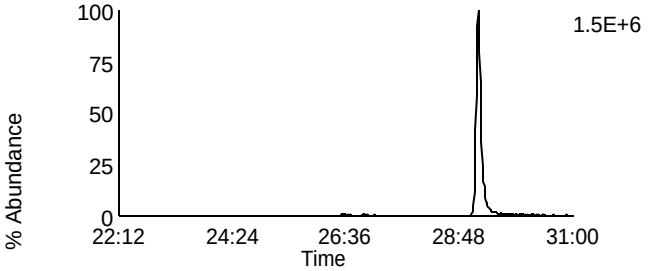
Data File: U131108A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - BAL



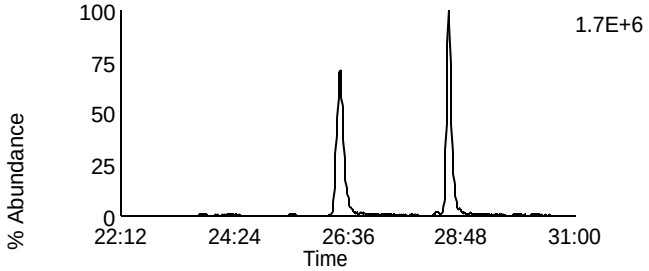
Data File: U131108A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - BAL



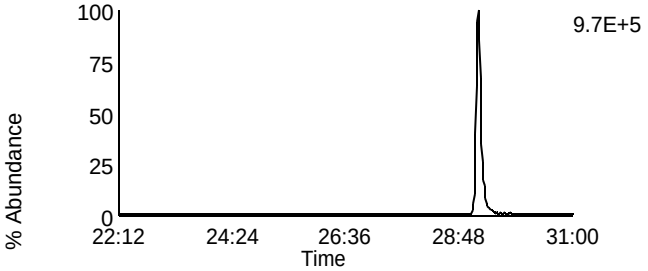
Data File: U131108A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - BAL



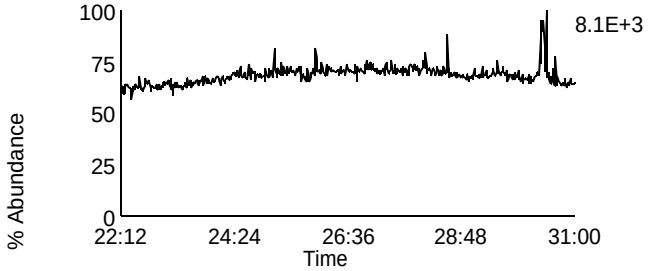
Data File: U131108A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - BAL



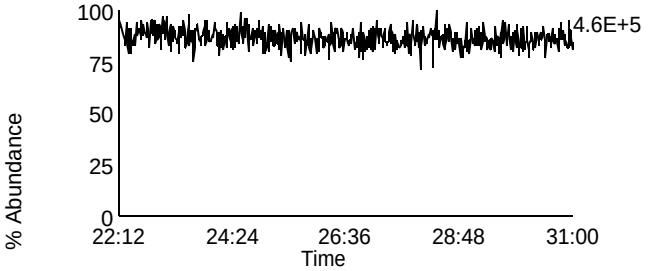
Data File: U131108A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - BAL

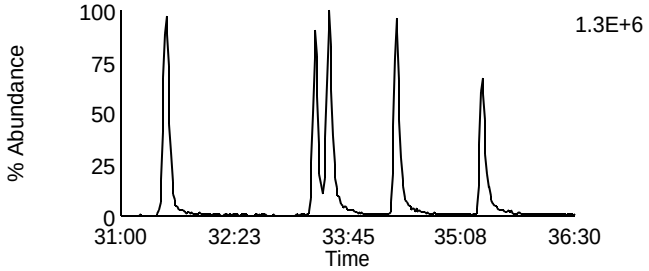


Homologue Group: Hexas

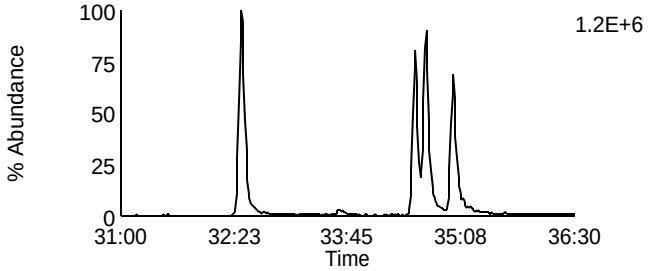
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

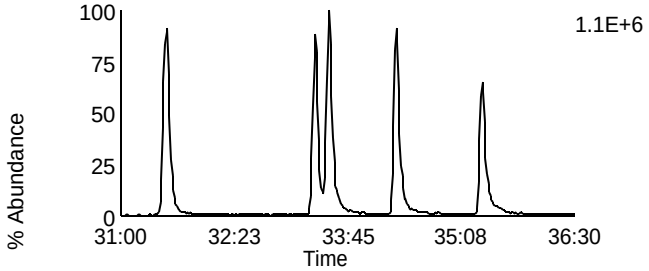
Data File: U131108A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - BAL



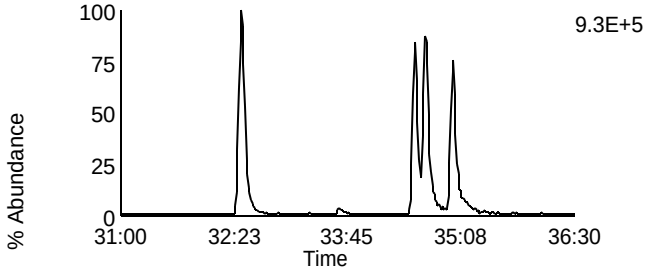
Data File: U131108A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - BAL



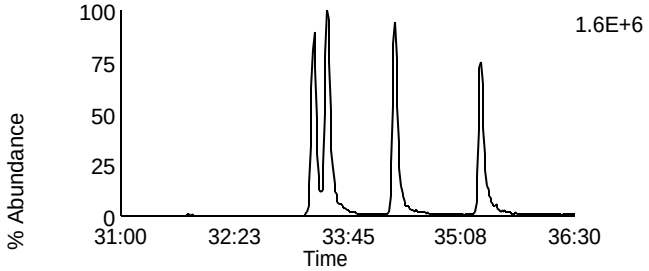
Data File: U131108A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - BAL



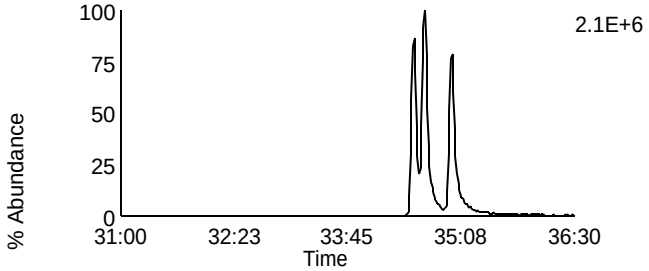
Data File: U131108A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - BAL



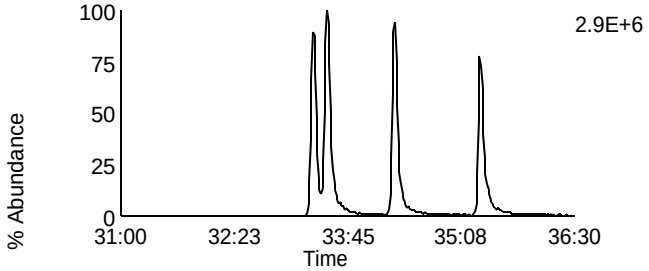
Data File: U131108A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - BAL



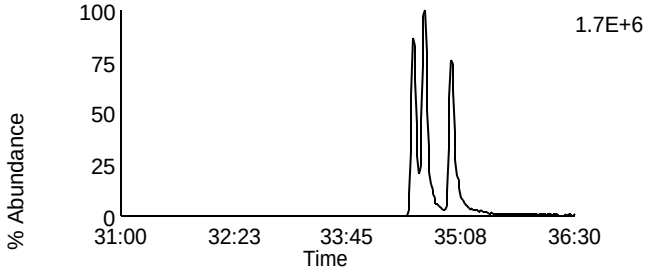
Data File: U131108A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - BAL



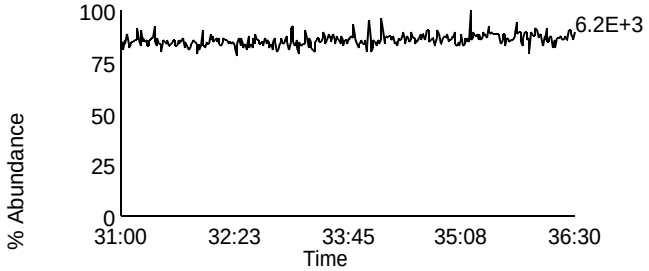
Data File: U131108A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - BAL



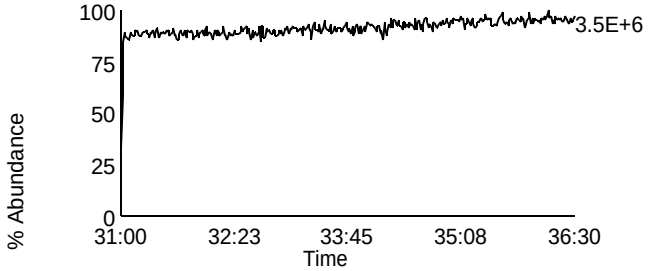
Data File: U131108A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - BAL

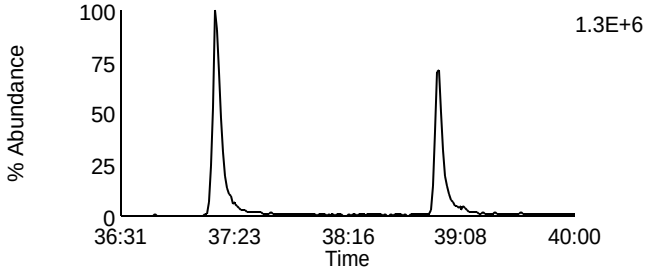


Homologue Group: Heptas

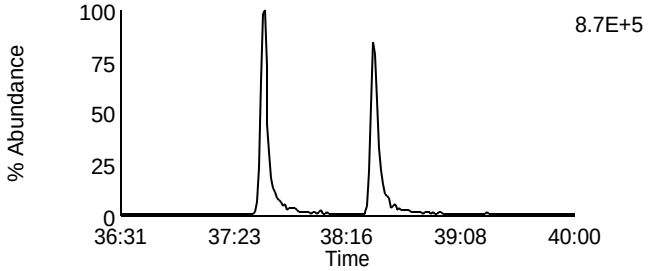
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

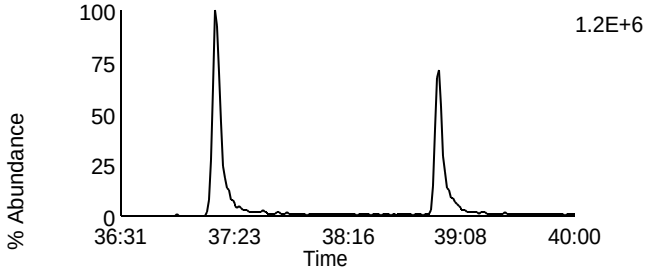
Data File: U131108A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - BAL



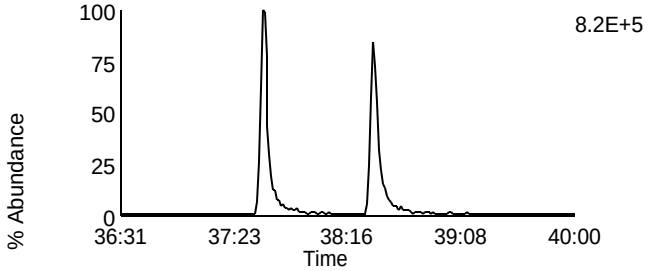
Data File: U131108A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - BAL



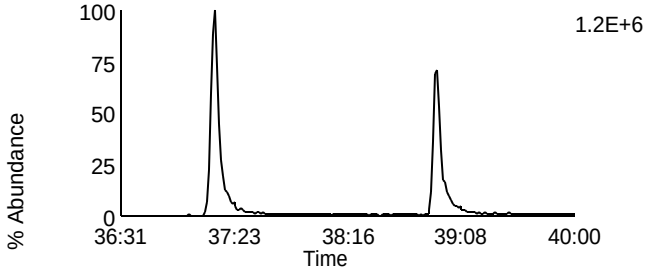
Data File: U131108A_03 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - BAL



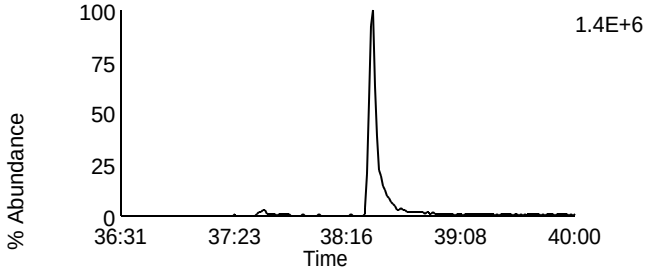
Data File: U131108A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - BAL



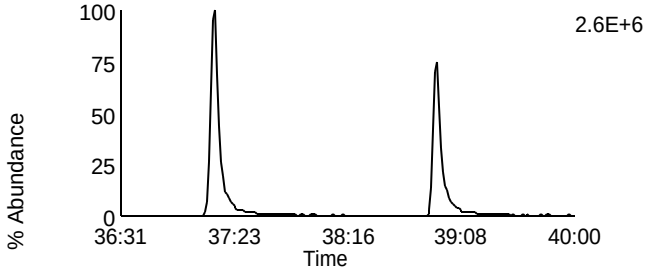
Data File: U131108A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - BAL



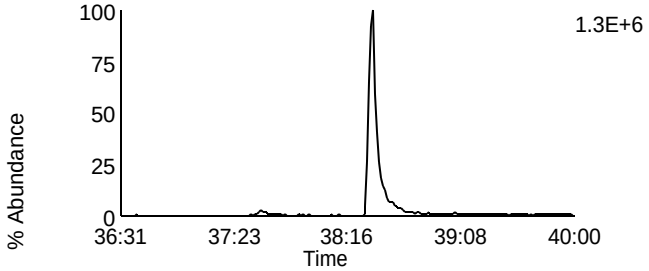
Data File: U131108A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - BAL



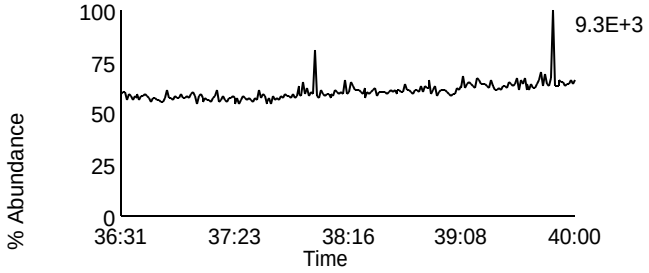
Data File: U131108A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - BAL



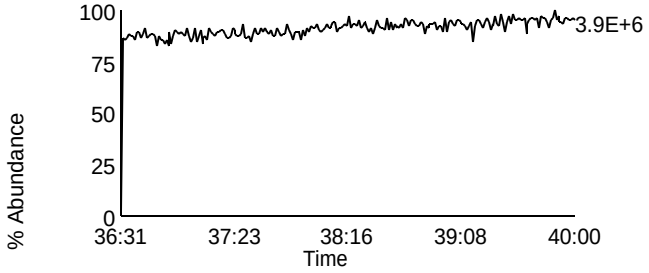
Data File: U131108A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - BAL

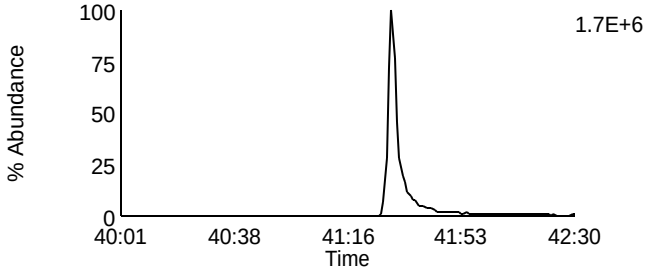


Homologue Group: Octas

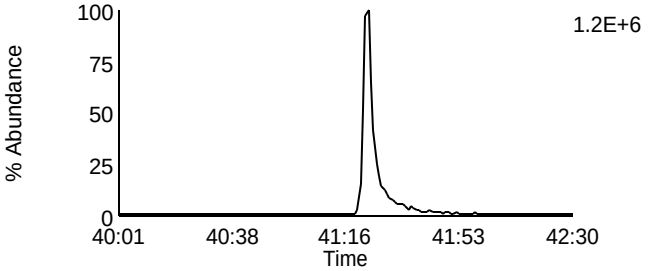
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID:
Instrument: 10MSHR06 (U)

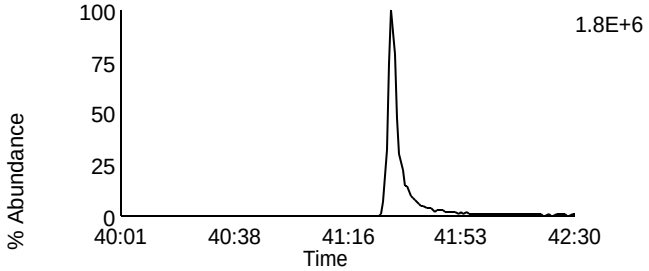
Data File: U131108A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - BAL



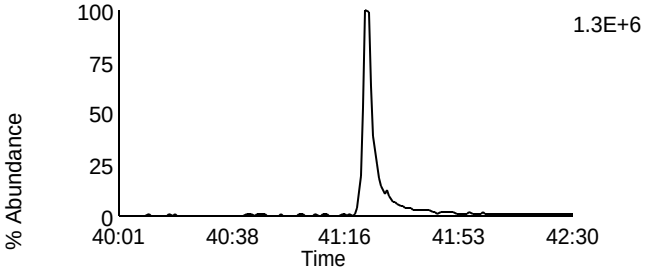
Data File: U131108A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - BAL



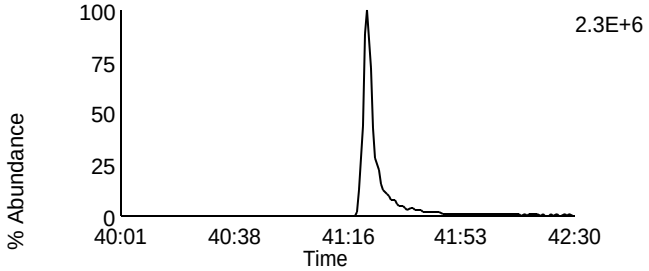
Data File: U131108A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - BAL



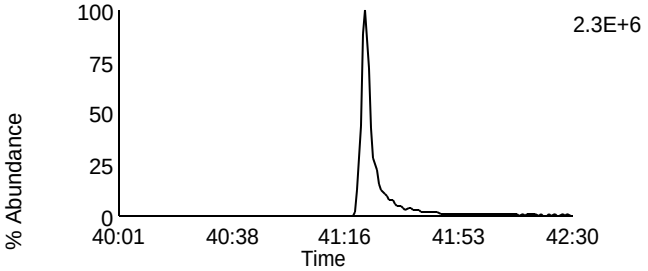
Data File: U131108A_03 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - BAL



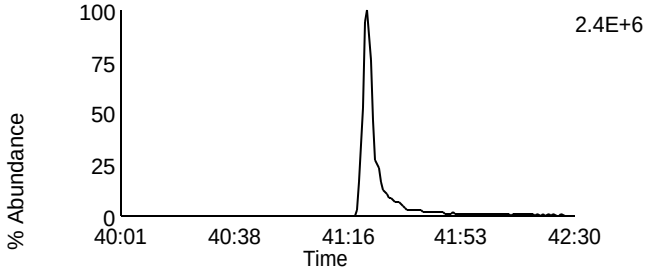
Data File: U131108A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL



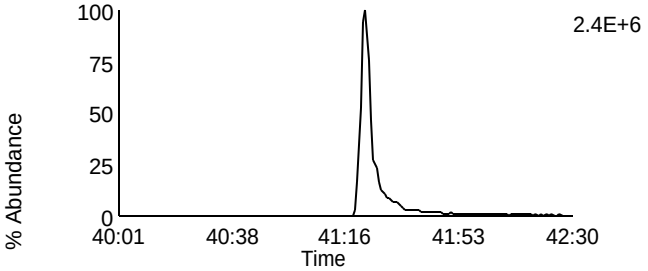
Data File: U131108A_03 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL



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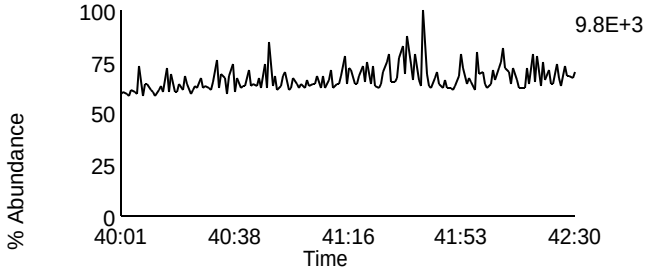
CAL CS3/CPM-7604-286 - BAL



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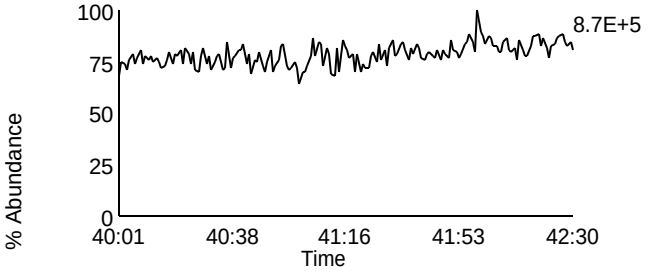

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR05 (F)
Filename	F131105A_04	GC Column ID	USD174324H
Analyzed	11/05/2013 09:53	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:22	8.22e7	1.09e8	1.08e7	1.41e7	-----	-----	0.76	
2,3,7,8-TCDF	18:25	3.11e5	4.70e5	4.20e4	6.02e4	1.152e3	1.390e3	0.66	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:33	6.59e7	8.50e7	8.95e6	1.13e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	19:23	6.42e7	8.28e7	7.53e6	9.67e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	19:25	7.11e5		8.35e4		-----	-----		
2,3,7,8-TCDD	19:24	2.92e5	3.78e5	4.28e4	5.30e4	1.183e3	1.710e3	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	26:08	8.86e7	5.60e7	7.48e6	4.84e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	28:31	8.62e7	5.65e7	9.50e6	5.88e6	-----	-----	1.52	
1,2,3,7,8-PeCDF	26:12	1.96e6	1.23e6	1.83e5	1.16e5	1.749e3	1.848e3	1.59	
2,3,4,7,8-PeCDF	28:33	2.05e6	1.33e6	2.66e5	1.51e5	1.628e3	1.160e3	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	29:11	6.71e7	4.35e7	7.46e6	5.12e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:12	9.28e5	1.57e6	3.82e4	1.70e5	7.426e3	2.258e3	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	33:21	3.62e7	7.08e7	6.86e6	1.35e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:30	4.68e7	8.88e7	7.82e6	1.47e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:16	4.36e7	8.39e7	8.69e6	1.64e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	4.01e7	7.87e7	7.34e6	1.43e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:21	1.70e6	1.31e6	3.10e5	2.53e5	2.253e3	1.386e3	1.30	
1,2,3,6,7,8-HxCDF	33:32	2.06e6	1.59e6	3.47e5	2.84e5	2.093e3	1.271e3	1.30	
2,3,4,6,7,8-HxCDF	34:17	1.97e6	1.50e6	3.85e5	3.00e5	3.229e3	1.964e3	1.31	
1,2,3,7,8,9-HxCDF	35:14	1.68e6	1.34e6	3.22e5	2.50e5	1.548e3	1.386e3	1.25	

REPORT OF LABORATORY ANALYSIS

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR05 (F)
Filename	F131105A_04	GC Column ID	USD174324H
Analyzed	11/05/2013 09:53	ICAL ID	F131105

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	34:28	5.60e7	4.44e7	1.19e7	9.41e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	34:34	7.02e7	5.72e7	1.29e7	1.03e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	34:54	6.51e7	5.36e7	1.25e7	1.01e7	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:29	1.45e6	1.11e6	2.95e5	2.61e5	2.026e3	-----	1.30	
1,2,3,6,7,8-HxCDD	34:35	1.67e6	1.29e6	3.19e5	2.52e5	2.398e3	1.783e3	1.29	
1,2,3,7,8,9-HxCDD	34:55	1.48e6	1.20e6	2.55e5	2.22e5	2.634e3	1.679e3	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	36:57	4.34e7	9.36e7	9.76e6	2.00e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:33	3.43e7	7.72e7	6.56e6	1.45e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	36:58	2.22e6	2.16e6	4.82e5	4.41e5	4.272e3	5.058e3	1.03	
1,2,3,4,7,8,9-HpCDF	38:34	1.81e6	1.83e6	3.59e5	3.53e5	5.332e3	1.056e3	0.99	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	6.34e7	5.83e7	1.26e7	1.14e7	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	38:05	1.84e6	1.81e6	3.39e5	3.68e5	4.011e3	1.257e3	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	2.86e6	3.05e6	5.79e5	6.22e5	2.216e3	2.098e2	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.03e8	1.15e8	2.00e7	2.21e7	-----	-----	0.90	
OCDD	40:51	3.55e6	3.96e6	7.11e5	7.45e5	1.119e3	7.336e2	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	CS2-7604-276	Instrument ID	10MSHR05 (F)
Filename	F131105A_03	GC Column ID	USD174324H
Analyzed	11/05/2013 09:09	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:20	9.90e7	1.28e8	1.26e7	1.60e7	-----	-----	0.77	
2,3,7,8-TCDF	18:23	1.63e6	2.21e6	2.13e5	2.75e5	-----	-----	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	18:31	8.35e7	1.06e8	1.10e7	1.40e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	19:22	7.91e7	1.03e8	9.42e6	1.19e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	19:24	3.62e6		4.58e5		-----	-----		
2,3,7,8-TCDD	19:24	1.33e6	1.81e6	1.58e5	2.13e5	-----	-----	0.73	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:08	1.12e8	7.12e7	9.42e6	6.10e6	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	28:30	1.12e8	7.19e7	1.23e7	7.93e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:10	9.87e6	6.31e6	8.88e5	5.56e5	-----	-----	1.56	
2,3,4,7,8-PeCDF	28:33	1.01e7	6.40e6	1.17e6	7.39e5	-----	-----	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	29:10	8.49e7	5.51e7	9.99e6	6.53e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:12	4.65e6	7.64e6	5.85e5	9.09e5	-----	-----	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	33:21	4.75e7	9.16e7	9.08e6	1.72e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:29	6.06e7	1.16e8	1.01e7	1.92e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:15	5.16e7	9.92e7	9.88e6	1.88e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:12	5.12e7	9.90e7	9.03e6	1.73e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:21	8.65e6	6.88e6	1.65e6	1.35e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	33:30	1.03e7	7.94e6	1.81e6	1.38e6	-----	-----	1.30	
2,3,4,6,7,8-HxCDF	34:17	9.77e6	7.68e6	1.87e6	1.55e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	35:13	8.37e6	6.92e6	1.52e6	1.22e6	-----	-----	1.21	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-276	Instrument ID	10MSHR05 (F)
Filename	F131105A_03	GC Column ID	USD174324H
Analyzed	11/05/2013 09:09	ICAL ID	F131105

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	34:27	6.82e7	5.55e7	1.55e7	1.24e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD-13C	34:34	9.35e7	7.68e7	1.68e7	1.38e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	34:53	8.34e7	6.73e7	1.43e7	1.19e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	34:29	6.27e6	5.12e6	1.47e6	1.19e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	34:35	8.09e6	6.67e6	1.44e6	1.19e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDD	34:55	7.59e6	6.15e6	1.46e6	1.11e6	-----	-----	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	36:57	5.55e7	1.20e8	1.19e7	2.61e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:33	4.26e7	9.85e7	8.53e6	1.88e7	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	36:57	1.10e7	1.13e7	2.39e6	2.44e6	-----	-----	0.98	
1,2,3,4,7,8,9-HpCDF	38:33	8.90e6	9.02e6	1.70e6	1.82e6	-----	-----	0.99	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:04	8.40e7	7.61e7	1.66e7	1.56e7	-----	-----	1.10	
1,2,3,4,6,7,8-HpCDD	38:05	8.38e6	8.25e6	1.63e6	1.63e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	1.31e7	1.48e7	2.61e6	3.05e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.36e8	1.53e8	2.67e7	3.08e7	-----	-----	0.89	
OCDD	40:51	1.50e7	1.71e7	2.98e6	3.45e6	-----	-----	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-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131105A_02	GC Column ID	USD174324H
Analyzed	11/05/2013 08:19	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:21	7.17e7	9.26e7	9.21e6	1.23e7	-----	-----	0.77	
2,3,7,8-TCDF	18:23	6.09e6	7.91e6	7.79e5	1.02e6	-----	-----	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	18:32	6.04e7	7.59e7	8.12e6	1.02e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	19:23	5.73e7	7.39e7	7.03e6	9.15e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	19:25	1.33e7		1.66e6		-----	-----		
2,3,7,8-TCDD	19:25	5.42e6	7.21e6	6.66e5	8.24e5	-----	-----	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	26:07	7.94e7	5.18e7	6.91e6	4.44e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	28:30	8.05e7	5.19e7	9.21e6	5.95e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:11	3.60e7	2.33e7	3.15e6	2.04e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	28:33	3.69e7	2.42e7	3.96e6	2.65e6	-----	-----	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	29:11	6.11e7	3.97e7	7.43e6	4.86e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:12	1.66e7	2.77e7	2.00e6	3.29e6	-----	-----	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	33:20	3.46e7	6.71e7	6.74e6	1.32e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	4.38e7	8.40e7	7.30e6	1.42e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:16	3.81e7	7.34e7	7.66e6	1.44e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	3.74e7	7.36e7	6.84e6	1.38e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:21	3.13e7	2.51e7	5.79e6	4.47e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:31	3.73e7	2.94e7	6.73e6	5.17e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	34:16	3.51e7	2.81e7	6.74e6	5.53e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	35:14	3.03e7	2.38e7	5.85e6	4.50e6	-----	-----	1.27	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131105A_02	GC Column ID	USD174324H
Analyzed	11/05/2013 08:19	ICAL ID	F131105

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	34:28	5.00e7	4.39e7	1.15e7	9.36e6	-----	-----	1.14	
1,2,3,6,7,8-HxCDD-13C	34:34	6.95e7	5.21e7	1.27e7	1.04e7	-----	-----	1.33	
1,2,3,7,8,9-HxCDD-13C	34:54	6.06e7	4.99e7	1.14e7	9.44e6	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:29	2.51e7	1.90e7	5.46e6	4.40e6	-----	-----	1.32	
1,2,3,6,7,8-HxCDD	34:35	2.79e7	2.42e7	5.29e6	4.43e6	-----	-----	1.15	
1,2,3,7,8,9-HxCDD	34:54	2.80e7	2.21e7	5.28e6	4.20e6	-----	-----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	36:57	4.05e7	9.14e7	9.01e6	1.95e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:33	3.23e7	7.21e7	6.55e6	1.42e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:58	4.13e7	4.12e7	8.86e6	8.70e6	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	38:34	3.33e7	3.29e7	6.98e6	6.65e6	-----	-----	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	38:04	6.32e7	5.78e7	1.25e7	1.11e7	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	38:05	3.25e7	3.11e7	6.38e6	6.27e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	4.77e7	5.37e7	1.01e7	1.14e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.02e8	1.14e8	2.00e7	2.19e7	-----	-----	0.90	
OCDD	40:51	5.07e7	5.82e7	1.01e7	1.16e7	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-277	Instrument ID	10MSHR05 (F)
Filename	F131105A_06	GC Column ID	USD174324H
Analyzed	11/05/2013 11:39	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:21	8.94e7	1.17e8	1.22e7	1.54e7	-----	-----	0.76	
2,3,7,8-TCDF	18:23	3.20e7	4.15e7	4.17e6	5.42e6	-----	-----	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	18:32	7.45e7	9.50e7	1.02e7	1.28e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	19:22	7.34e7	9.34e7	9.12e6	1.18e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:24	7.25e7		8.79e6		-----	-----		
2,3,7,8-TCDD	19:24	2.72e7	3.56e7	3.24e6	4.34e6	-----	-----	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	26:07	1.01e8	6.52e7	8.88e6	5.69e6	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	28:31	1.02e8	6.61e7	1.16e7	7.51e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:09	1.87e8	1.21e8	1.63e7	1.04e7	-----	-----	1.55	
2,3,4,7,8-PeCDF	28:33	1.94e8	1.26e8	2.18e7	1.43e7	-----	-----	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	29:10	7.87e7	5.15e7	9.18e6	6.01e6	-----	-----	1.53	
1,2,3,7,8-PeCDD	29:12	8.70e7	1.46e8	1.04e7	1.70e7	-----	-----	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	33:20	4.32e7	8.30e7	8.43e6	1.60e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:29	5.44e7	1.04e8	9.19e6	1.76e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:15	4.71e7	9.13e7	9.17e6	1.78e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	4.67e7	8.96e7	8.74e6	1.66e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:21	1.61e8	1.29e8	3.16e7	2.51e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:31	1.87e8	1.50e8	3.27e7	2.67e7	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	34:17	1.79e8	1.44e8	3.44e7	2.75e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	35:14	1.59e8	1.26e8	2.94e7	2.32e7	-----	-----	1.26	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-277	Instrument ID	10MSHR05 (F)
Filename	F131105A_06	GC Column ID	USD174324H
Analyzed	11/05/2013 11:39	ICAL ID	F131105

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	34:27	6.08e7	4.95e7	1.40e7	1.15e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD-13C	34:34	8.54e7	7.02e7	1.50e7	1.26e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	34:53	7.37e7	5.98e7	1.40e7	1.12e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:28	1.24e8	9.53e7	2.66e7	2.15e7	-----	-----	1.31	
1,2,3,6,7,8-HxCDD	34:35	1.42e8	1.24e8	2.70e7	2.17e7	-----	-----	1.15	
1,2,3,7,8,9-HxCDD	34:55	1.37e8	1.11e8	2.58e7	2.08e7	-----	-----	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	36:57	5.05e7	1.09e8	1.08e7	2.34e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:33	4.03e7	9.13e7	7.96e6	1.81e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	36:58	2.07e8	2.02e8	4.49e7	4.38e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:34	1.71e8	1.68e8	3.32e7	3.17e7	-----	-----	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	38:04	7.35e7	6.95e7	1.47e7	1.44e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:05	1.57e8	1.51e8	3.13e7	2.95e7	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	2.56e8	2.90e8	5.15e7	5.67e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.25e8	1.42e8	2.48e7	2.82e7	-----	-----	0.88	
OCDD	40:51	2.41e8	2.80e8	4.74e7	5.40e7	-----	-----	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR05 (F)
Filename	F131105A_05	GC Column ID	USD174324H
Analyzed	11/05/2013 10:56	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:21	1.04e8	1.36e8	1.38e7	1.78e7	-----	-----	0.77	
2,3,7,8-TCDF	18:22	1.84e8	2.41e8	2.48e7	3.17e7	-----	-----	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	18:32	8.45e7	1.08e8	1.17e7	1.50e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	19:22	8.51e7	1.11e8	1.05e7	1.42e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	19:25	4.15e8		4.85e7		-----	-----		
2,3,7,8-TCDD	19:24	1.55e8	2.05e8	1.89e7	2.50e7	-----	-----	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	26:07	1.19e8	7.78e7	1.05e7	6.72e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	28:30	1.22e8	7.86e7	1.35e7	8.68e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:08	1.10e9	7.15e8	9.77e7	6.34e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	28:32	1.15e9	7.40e8	1.29e8	8.27e7	-----	-----	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	29:10	9.38e7	6.19e7	1.13e7	7.56e6	-----	-----	1.52	
1,2,3,7,8-PeCDD	29:12	5.20e8	8.65e8	6.27e7	1.04e8	-----	-----	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	33:20	5.29e7	1.03e8	1.10e7	2.11e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:29	6.51e7	1.24e8	1.14e7	2.17e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:15	5.67e7	1.08e8	1.11e7	2.15e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:12	5.74e7	1.11e8	1.12e7	2.14e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:21	9.54e8	7.66e8	1.81e8	1.44e8	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:30	1.08e9	8.79e8	1.94e8	1.58e8	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	34:17	1.04e9	8.46e8	2.01e8	1.60e8	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:13	9.53e8	7.65e8	1.77e8	1.45e8	-----	-----	1.25	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR05 (F)
Filename	F131105A_05	GC Column ID	USD174324H
Analyzed	11/05/2013 10:56	ICAL ID	F131105

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	34:27	8.17e7	6.22e7	1.76e7	1.41e7	-----	-----	1.31	
1,2,3,6,7,8-HxCDD-13C	34:34	9.57e7	8.33e7	1.87e7	1.58e7	-----	-----	1.15	
1,2,3,7,8,9-HxCDD-13C	34:53	9.02e7	7.35e7	1.82e7	1.52e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:28	6.91e8	5.63e8	1.59e8	1.29e8	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	34:35	8.88e8	7.19e8	1.65e8	1.34e8	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	34:54	8.25e8	6.65e8	1.55e8	1.28e8	-----	-----	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	36:57	6.04e7	1.35e8	1.33e7	2.90e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:33	5.07e7	1.13e8	1.03e7	2.38e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:58	1.23e9	1.20e9	2.67e8	2.58e8	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	38:34	1.03e9	1.02e9	2.05e8	2.01e8	-----	-----	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	38:04	9.36e7	8.80e7	1.89e7	1.82e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:05	9.50e8	9.05e8	1.95e8	1.87e8	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	1.60e9	1.78e9	3.38e8	3.70e8	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.60e8	1.80e8	3.29e7	3.60e7	-----	-----	0.89	
OCDD	40:51	1.47e9	1.68e9	2.93e8	3.30e8	-----	-----	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	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U131104A_08	GC Column ID	USD227224H
Analyzed	11/04/2013 15:37	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:41	3.56e7	4.54e7	5.40e6	6.91e6	-----	-----	0.78	
2,3,7,8-TCDF	18:44	1.43e5	2.05e5	2.55e4	3.89e4	9.112e2	5.955e2	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	18:55	2.39e7	2.97e7	3.76e6	4.69e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	19:43	2.30e7	2.88e7	3.26e6	4.11e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	19:45	3.18e5		5.50e4		-----	-----		
2,3,7,8-TCDD	19:44	1.12e5	1.58e5	1.67e4	2.15e4	8.770e2	5.349e2	0.71	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:25	3.19e7	2.08e7	3.62e6	2.36e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	28:31	3.23e7	2.08e7	4.60e6	3.06e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:28	6.85e5	4.33e5	8.67e4	5.51e4	1.378e3	8.285e2	1.58	
2,3,4,7,8-PeCDF	28:34	7.51e5	5.25e5	1.29e5	8.89e4	2.368e3	9.009e2	1.43	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	29:08	2.02e7	1.31e7	3.11e6	1.93e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:10	2.99e5	5.59e5	4.78e4	8.40e4	1.661e3	6.540e2	0.53	

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	33:19	1.16e7	2.25e7	2.46e6	4.74e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	1.43e7	2.79e7	2.78e6	5.46e6	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:18	1.29e7	2.60e7	2.93e6	5.84e6	-----	-----	0.50	
1,2,3,7,8,9-HxCDF-13C	35:20	1.11e7	2.16e7	2.19e6	4.27e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:21	4.85e5	4.06e5	1.06e5	9.87e4	1.757e3	1.180e3	1.19	
1,2,3,6,7,8-HxCDF	33:31	5.45e5	4.42e5	1.21e5	8.61e4	2.550e3	1.153e3	1.23	
2,3,4,6,7,8-HxCDF	34:20	5.31e5	4.73e5	1.28e5	1.13e5	1.731e3	1.153e3	1.12	
1,2,3,7,8,9-HxCDF	35:21	4.14e5	3.62e5	8.95e4	7.04e4	1.548e3	1.153e3	1.15	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS1-7604-273	Instrument ID	10MSHR06 (U)
Filename	U131104A_08	GC Column ID	USD227224H
Analyzed	11/04/2013 15:37	ICAL ID	U131104

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	34:32	1.52e7	1.20e7	3.88e6	3.09e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	34:40	1.99e7	1.58e7	4.29e6	3.30e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	34:60	1.76e7	1.41e7	3.68e6	2.94e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:32	4.26e5	3.21e5	9.41e4	8.28e4	1.096e3	3.243e3	1.33	
1,2,3,6,7,8-HxCDD	34:41	4.21e5	3.93e5	1.01e5	9.15e4	9.009e2	1.615e3	1.07	
1,2,3,7,8,9-HxCDD	35:01	4.15e5	3.25e5	8.87e4	7.33e4	8.716e2	1.443e3	1.28	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:13	1.01e7	2.25e7	2.46e6	5.40e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:56	7.60e6	1.65e7	1.71e6	3.74e6	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	37:14	5.82e5	5.21e5	1.33e5	1.36e5	6.046e2	3.215e2	1.12	
1,2,3,4,7,8,9-HpCDF	38:57	4.04e5	3.88e5	1.04e5	9.94e4	1.522e3	1.038e3	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	38:26	1.21e7	1.11e7	2.78e6	2.60e6	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	38:27	3.20e5	3.05e5	7.65e4	8.09e4	4.038e3	5.648e2	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:29	5.20e5	5.70e5	1.18e5	1.26e5	2.592e2	1.367e3	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:21	1.72e7	1.92e7	3.80e6	4.28e6	-----	-----	0.90	
OCDD	41:23	4.46e5	5.18e5	10.00e4	1.19e5	4.148e2	8.427e2	0.86	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U131104A_02	GC Column ID	USD227224H
Analyzed	11/04/2013 10:24	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:43	3.37e7	4.34e7	5.04e6	6.57e6	-----	-----	0.78	
2,3,7,8-TCDF	18:45	6.03e5	7.64e5	9.66e4	1.14e5	-----	-----	0.79	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:57	2.30e7	2.97e7	3.54e6	4.62e6	-----	-----	0.77	
2,3,7,8-TCDD-13C	19:44	2.22e7	2.80e7	3.21e6	4.02e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:45	1.17e6		1.69e5		-----	-----		
2,3,7,8-TCDD	19:46	4.54e5	6.12e5	6.94e4	8.80e4	-----	-----	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	26:27	2.89e7	1.88e7	3.26e6	2.21e6	-----	-----	1.53	
2,3,4,7,8-PeCDF-13C	28:34	3.03e7	1.94e7	4.36e6	2.84e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:29	2.50e6	1.75e6	2.87e5	2.01e5	-----	-----	1.43	
2,3,4,7,8-PeCDF	28:35	2.70e6	1.77e6	4.02e5	2.67e5	-----	-----	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	29:10	1.92e7	1.21e7	2.89e6	1.90e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	29:12	1.22e6	1.95e6	2.04e5	3.27e5	-----	-----	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	33:20	1.15e7	2.20e7	2.45e6	4.92e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	1.43e7	2.79e7	2.78e6	5.24e6	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:20	1.22e7	2.45e7	2.63e6	5.00e6	-----	-----	0.50	
1,2,3,7,8,9-HxCDF-13C	35:22	1.15e7	2.19e7	2.23e6	4.13e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	1.91e6	1.54e6	4.09e5	3.28e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	33:31	2.17e6	1.87e6	4.19e5	3.86e5	-----	-----	1.16	
2,3,4,6,7,8-HxCDF	34:21	2.13e6	1.75e6	4.81e5	3.59e5	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	35:23	1.65e6	1.33e6	3.49e5	2.77e5	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS2-7604-276	Instrument ID	10MSHR06 (U)
Filename	U131104A_02	GC Column ID	USD227224H
Analyzed	11/04/2013 10:24	ICAL ID	U131104

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	34:33	1.57e7	1.24e7	3.80e6	2.88e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	34:41	1.97e7	1.58e7	4.21e6	3.33e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:01	1.75e7	1.42e7	3.50e6	2.72e6	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:34	1.50e6	1.14e6	3.79e5	2.89e5	-----	-----	1.32	
1,2,3,6,7,8-HxCDD	34:42	1.75e6	1.54e6	3.73e5	3.21e5	-----	-----	1.13	
1,2,3,7,8,9-HxCDD	35:02	1.56e6	1.34e6	3.24e5	2.90e5	-----	-----	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	37:14	1.02e7	2.35e7	2.22e6	5.16e6	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:56	8.15e6	1.75e7	1.83e6	3.97e6	-----	-----	0.47	
1,2,3,4,6,7,8-HpCDF	37:15	2.24e6	2.14e6	5.52e5	4.94e5	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	38:57	1.67e6	1.59e6	4.00e5	3.65e5	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:28	1.28e7	1.22e7	2.78e6	2.67e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	38:28	1.39e6	1.29e6	3.47e5	3.01e5	-----	-----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:31	2.33e6	2.55e6	5.73e5	6.02e5	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:22	2.04e7	2.24e7	4.73e6	5.20e6	-----	-----	0.91	
OCDD	41:23	2.06e6	2.32e6	4.63e5	5.39e5	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR06 (U)
Filename	U131104A_01	GC Column ID	USD227224H
Analyzed	11/04/2013 09:19	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:43	3.84e7	5.00e7	5.77e6	7.35e6	-----	-----	0.77	
2,3,7,8-TCDF	18:44	3.38e6	4.33e6	4.90e5	6.44e5	-----	-----	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	18:58	2.70e7	3.44e7	4.15e6	5.43e6	-----	-----	0.78	
2,3,7,8-TCDD-13C	19:45	2.65e7	3.36e7	3.87e6	4.78e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:47	6.60e6		9.77e5		-----	-----		
2,3,7,8-TCDD	19:47	2.81e6	3.48e6	4.20e5	4.96e5	-----	-----	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	26:27	3.67e7	2.36e7	4.28e6	2.78e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	28:34	3.83e7	2.46e7	5.58e6	3.63e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:30	1.56e7	1.05e7	1.72e6	1.18e6	-----	-----	1.49	
2,3,4,7,8-PeCDF	28:36	1.64e7	1.09e7	2.51e6	1.70e6	-----	-----	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	29:11	2.49e7	1.58e7	3.81e6	2.47e6	-----	-----	1.58	
1,2,3,7,8-PeCDD	29:12	7.26e6	1.19e7	1.13e6	1.79e6	-----	-----	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	33:21	1.44e7	2.82e7	3.19e6	6.23e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:31	1.83e7	3.56e7	3.51e6	6.81e6	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:20	1.61e7	3.12e7	3.32e6	6.49e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:22	1.41e7	2.87e7	2.83e6	5.42e6	-----	-----	0.49	
1,2,3,4,7,8-HxCDF	33:22	1.16e7	9.72e6	2.58e6	2.14e6	-----	-----	1.20	
1,2,3,6,7,8-HxCDF	33:32	1.43e7	1.18e7	2.83e6	2.28e6	-----	-----	1.20	
2,3,4,6,7,8-HxCDF	34:21	1.36e7	1.12e7	2.73e6	2.34e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	35:24	1.06e7	8.91e6	2.10e6	1.66e6	-----	-----	1.19	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR06 (U)
Filename	U131104A_01	GC Column ID	USD227224H
Analyzed	11/04/2013 09:19	ICAL ID	U131104

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	34:34	1.93e7	1.57e7	4.83e6	4.03e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDD-13C	34:42	2.74e7	2.16e7	5.48e6	4.19e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	35:01	2.23e7	1.87e7	4.25e6	3.41e6	-----	-----	1.19	
1,2,3,4,7,8-HxCDD	34:35	9.67e6	7.43e6	2.37e6	1.93e6	-----	-----	1.30	
1,2,3,6,7,8-HxCDD	34:42	1.18e7	9.88e6	2.42e6	2.02e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDD	35:02	1.11e7	8.76e6	2.07e6	1.68e6	-----	-----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:15	1.43e7	3.11e7	3.28e6	6.66e6	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:57	1.12e7	2.41e7	2.63e6	5.58e6	-----	-----	0.47	
1,2,3,4,6,7,8-HpCDF	37:16	1.51e7	1.47e7	3.39e6	3.34e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	38:58	1.15e7	1.12e7	2.60e6	2.39e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:28	1.74e7	1.65e7	3.82e6	3.69e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	38:29	9.18e6	9.04e6	2.09e6	2.05e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:31	1.68e7	1.89e7	3.91e6	4.38e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:23	2.87e7	3.31e7	6.38e6	7.17e6	-----	-----	0.87	
OCDD	41:24	1.39e7	1.57e7	3.01e6	3.25e6	-----	-----	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	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U131104A_05	GC Column ID	USD227224H
Analyzed	11/04/2013 13:13	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:43	3.92e7	5.08e7	6.27e6	7.90e6	-----	-----	0.77	
2,3,7,8-TCDF	18:45	1.40e7	1.87e7	2.23e6	2.96e6	-----	-----	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	18:57	2.67e7	3.40e7	4.48e6	5.68e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	19:45	2.64e7	3.34e7	3.90e6	4.91e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:46	2.81e7		4.29e6		-----	-----		
2,3,7,8-TCDD	19:46	1.14e7	1.47e7	1.70e6	2.22e6	-----	-----	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	26:27	3.84e7	2.47e7	4.51e6	2.84e6	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	28:34	3.91e7	2.51e7	6.03e6	3.86e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:29	7.05e7	4.63e7	8.34e6	5.46e6	-----	-----	1.52	
2,3,4,7,8-PeCDF	28:35	7.34e7	4.82e7	1.15e7	7.49e6	-----	-----	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	29:10	2.54e7	1.61e7	3.97e6	2.68e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	29:12	3.27e7	5.33e7	5.32e6	8.54e6	-----	-----	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	33:20	1.44e7	2.81e7	3.16e6	6.24e6	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:31	1.80e7	3.43e7	3.66e6	6.98e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:20	1.54e7	3.01e7	3.40e6	6.44e6	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:22	1.42e7	2.73e7	2.81e6	5.26e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	5.01e7	4.15e7	1.12e7	9.15e6	-----	-----	1.21	
1,2,3,6,7,8-HxCDF	33:31	6.05e7	5.07e7	1.21e7	1.03e7	-----	-----	1.19	
2,3,4,6,7,8-HxCDF	34:21	5.58e7	4.78e7	1.22e7	1.03e7	-----	-----	1.17	
1,2,3,7,8,9-HxCDF	35:23	4.66e7	3.89e7	9.24e6	7.59e6	-----	-----	1.20	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS4-7604-277	Instrument ID	10MSHR06 (U)
Filename	U131104A_05	GC Column ID	USD227224H
Analyzed	11/04/2013 13:13	ICAL ID	U131104

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	34:33	1.97e7	1.55e7	4.84e6	3.87e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	34:41	2.55e7	2.04e7	5.38e6	4.54e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	35:01	2.24e7	1.81e7	4.36e6	3.46e6	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:34	4.09e7	3.36e7	9.81e6	8.32e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	34:42	4.90e7	4.05e7	1.05e7	8.70e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDD	35:01	4.50e7	3.62e7	8.65e6	7.24e6	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:15	1.27e7	2.80e7	2.98e6	6.19e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:56	9.69e6	2.18e7	2.07e6	4.66e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:15	5.97e7	5.78e7	1.35e7	1.30e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:58	4.61e7	4.43e7	1.02e7	9.54e6	-----	-----	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	38:27	1.59e7	1.50e7	3.45e6	3.39e6	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:28	3.52e7	3.44e7	8.17e6	7.56e6	-----	-----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:30	6.65e7	7.53e7	1.46e7	1.64e7	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:23	2.44e7	2.72e7	4.99e6	5.43e6	-----	-----	0.90	
OCDD	41:23	5.48e7	6.06e7	1.11e7	1.23e7	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U131104A_04	GC Column ID	USD227224H
Analyzed	11/04/2013 12:28	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:43	4.14e7	5.23e7	6.52e6	8.40e6	-----	-----	0.79	
2,3,7,8-TCDF	18:45	7.01e7	9.24e7	1.12e7	1.50e7	-----	-----	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	18:58	2.79e7	3.54e7	4.48e6	5.69e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	19:45	2.84e7	3.66e7	4.28e6	5.31e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	19:47	1.48e8		2.20e7		-----	-----		
2,3,7,8-TCDD	19:47	5.83e7	7.60e7	8.57e6	1.11e7	-----	-----	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	26:27	4.33e7	2.81e7	5.13e6	3.32e6	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	28:34	4.43e7	2.88e7	6.72e6	4.40e6	-----	-----	1.54	
1,2,3,7,8-PeCDF	26:31	3.78e8	2.46e8	4.39e7	2.92e7	-----	-----	1.53	
2,3,4,7,8-PeCDF	28:36	3.95e8	2.60e8	6.15e7	4.04e7	-----	-----	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	29:10	2.96e7	1.92e7	4.87e6	3.03e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:12	1.81e8	2.97e8	2.83e7	4.60e7	-----	-----	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	33:21	1.66e7	3.32e7	3.61e6	7.22e6	-----	-----	0.50	
1,2,3,6,7,8-HxCDF-13C	33:31	2.14e7	4.24e7	4.14e6	8.28e6	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	34:20	1.84e7	3.49e7	3.97e6	7.74e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	35:22	1.74e7	3.37e7	3.37e6	6.18e6	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	2.73e8	2.25e8	6.39e7	5.21e7	-----	-----	1.21	
1,2,3,6,7,8-HxCDF	33:32	3.50e8	2.87e8	6.87e7	5.63e7	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	34:21	3.23e8	2.65e8	7.00e7	5.80e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDF	35:23	2.66e8	2.15e8	5.09e7	4.19e7	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID		Injected By	SMT
Lab ID	CS5-7604-278	Instrument ID	10MSHR06 (U)
Filename	U131104A_04	GC Column ID	USD227224H
Analyzed	11/04/2013 12:28	ICAL ID	U131104

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	34:33	2.35e7	1.88e7	5.62e6	4.64e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	34:41	3.16e7	2.56e7	6.44e6	5.17e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	35:01	2.71e7	2.18e7	5.06e6	4.06e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	34:35	2.28e8	1.84e8	5.53e7	4.42e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	34:43	2.83e8	2.31e8	5.80e7	4.72e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	35:02	2.58e8	2.09e8	4.83e7	3.89e7	-----	-----	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	37:15	1.57e7	3.47e7	3.53e6	7.39e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:57	1.25e7	2.76e7	2.62e6	5.74e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:15	3.40e8	3.25e8	7.73e7	7.42e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:57	2.65e8	2.56e8	5.73e7	5.46e7	-----	-----	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	38:27	2.00e7	1.85e7	4.26e6	4.03e6	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	38:28	2.05e8	2.00e8	4.52e7	4.31e7	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:31	4.18e8	4.65e8	8.81e7	9.83e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:23	3.34e7	3.74e7	6.25e6	7.29e6	-----	-----	0.89	
OCDD	41:23	3.29e8	3.72e8	6.32e7	7.24e7	-----	-----	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-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131106A_01	GC Column ID	USD174324H
Analyzed	11/06/2013 18:18	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:22	5.64e7	7.29e7	7.41e6	9.39e6	-----	-----	0.77	
2,3,7,8-TCDF	18:22	4.77e6	6.23e6	6.38e5	8.51e5	-----	-----	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	18:33	4.26e7	5.39e7	6.07e6	7.55e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	19:23	4.15e7	5.38e7	5.12e6	6.58e6	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	19:25	1.00e7		1.27e6		-----	-----		
2,3,7,8-TCDD	19:25	4.10e6	5.33e6	4.82e5	6.27e5	-----	-----	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	26:08	6.47e7	4.06e7	5.86e6	3.64e6	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	28:31	6.64e7	4.23e7	7.50e6	4.75e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:11	2.95e7	1.88e7	2.51e6	1.68e6	-----	-----	1.57	
2,3,4,7,8-PeCDF	28:32	3.09e7	1.99e7	3.43e6	2.22e6	-----	-----	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	29:11	4.86e7	3.05e7	5.85e6	3.83e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	29:12	1.33e7	2.20e7	1.58e6	2.65e6	-----	-----	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	33:21	3.01e7	5.91e7	5.75e6	1.11e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	33:29	3.71e7	7.07e7	6.23e6	1.21e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:15	3.29e7	6.30e7	5.94e6	1.13e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	3.21e7	6.26e7	5.68e6	1.09e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	33:21	2.60e7	2.08e7	5.06e6	3.95e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:31	3.16e7	2.48e7	5.41e6	4.21e6	-----	-----	1.28	
2,3,4,6,7,8-HxCDF	34:17	2.97e7	2.34e7	5.53e6	4.28e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	35:14	2.60e7	2.10e7	4.44e6	3.56e6	-----	-----	1.24	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131106A_01	GC Column ID	USD174324H
Analyzed	11/06/2013 18:18	ICAL ID	F131105

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	34:27	4.49e7	3.22e7	9.38e6	7.36e6	-----	-----	1.39	
1,2,3,6,7,8-HxCDD-13C	34:34	5.51e7	4.66e7	1.01e7	8.13e6	-----	-----	1.18	
1,2,3,7,8,9-HxCDD-13C	34:54	5.04e7	4.08e7	8.88e6	7.22e6	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	34:29	2.07e7	1.64e7	4.41e6	3.53e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	34:35	2.39e7	1.90e7	4.32e6	3.52e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	34:55	2.29e7	1.88e7	4.15e6	3.51e6	-----	-----	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	36:57	3.39e7	7.47e7	7.27e6	1.57e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:33	2.76e7	6.12e7	5.12e6	1.16e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:58	3.36e7	3.24e7	7.38e6	7.06e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:34	2.80e7	2.77e7	5.37e6	5.13e6	-----	-----	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	38:04	4.88e7	4.60e7	9.07e6	8.59e6	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	38:05	2.42e7	2.34e7	4.69e6	4.56e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:57	4.33e7	4.80e7	8.45e6	9.25e6	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	8.51e7	9.57e7	1.65e7	1.83e7	-----	-----	0.89	
OCDD	40:51	3.96e7	4.40e7	7.46e6	8.41e6	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

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Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131107A_01	GC Column ID	USD174324H
Analyzed	11/07/2013 08:24	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:22	1.17e8	1.50e8	1.51e7	1.94e7	-----	-----	0.78	
2,3,7,8-TCDF	18:24	1.01e7	1.33e7	1.28e6	1.74e6	-----	-----	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	18:34	9.03e7	1.17e8	1.19e7	1.55e7	-----	-----	0.77	
2,3,7,8-TCDD-13C	19:24	8.93e7	1.16e8	1.11e7	1.44e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	19:26	2.15e7		2.66e6		-----	-----		
2,3,7,8-TCDD	19:25	8.59e6	1.13e7	1.03e6	1.37e6	-----	-----	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	26:10	1.38e8	8.70e7	1.18e7	7.31e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	28:32	1.38e8	8.84e7	1.55e7	1.01e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:11	6.17e7	3.98e7	5.33e6	3.53e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	28:34	6.57e7	4.15e7	7.29e6	4.63e6	-----	-----	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	29:11	1.03e8	6.72e7	1.19e7	7.82e6	-----	-----	1.53	
1,2,3,7,8-PeCDD	29:14	2.87e7	4.70e7	3.44e6	5.43e6	-----	-----	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	33:21	5.98e7	1.10e8	1.12e7	2.15e7	-----	-----	0.54	
1,2,3,6,7,8-HxCDF-13C	33:31	6.83e7	1.36e8	1.19e7	2.32e7	-----	-----	0.50	
2,3,4,6,7,8-HxCDF-13C	34:16	6.20e7	1.18e8	1.23e7	2.36e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:14	5.91e7	1.15e8	1.07e7	2.04e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	5.12e7	4.13e7	1.02e7	8.16e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	33:32	6.04e7	4.75e7	1.05e7	8.39e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	34:18	5.67e7	4.53e7	1.04e7	8.46e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	35:15	4.88e7	3.81e7	9.29e6	7.33e6	-----	-----	1.28	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131107A_01	GC Column ID	USD174324H
Analyzed	11/07/2013 08:24	ICAL ID	F131105

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	34:28	7.90e7	6.46e7	1.81e7	1.50e7	-----	-----	1.22	
1,2,3,6,7,8-HxCDD-13C	34:35	1.07e8	8.69e7	1.94e7	1.60e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	34:55	9.16e7	7.55e7	1.73e7	1.42e7	-----	-----	1.21	
1,2,3,4,7,8-HxCDD	34:29	3.97e7	2.94e7	8.51e6	6.87e6	-----	-----	1.35	
1,2,3,6,7,8-HxCDD	34:36	4.45e7	3.78e7	8.35e6	6.73e6	-----	-----	1.18	
1,2,3,7,8,9-HxCDD	34:56	4.21e7	3.48e7	7.99e6	6.54e6	-----	-----	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	36:57	5.04e7	1.18e8	1.12e7	2.49e7	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:34	4.47e7	1.01e8	8.92e6	1.99e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	36:59	5.24e7	5.32e7	1.10e7	1.11e7	-----	-----	0.98	
1,2,3,4,7,8,9-HpCDF	38:35	4.60e7	4.45e7	9.18e6	8.58e6	-----	-----	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	38:05	7.89e7	7.57e7	1.51e7	1.47e7	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	38:06	4.09e7	3.95e7	8.23e6	7.96e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	6.29e7	6.96e7	1.34e7	1.45e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	1.33e8	1.53e8	2.74e7	3.08e7	-----	-----	0.87	
OCDD	40:52	6.25e7	7.01e7	1.27e7	1.41e7	-----	-----	0.89	

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Minneapolis, MN 55414

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131107B_01	GC Column ID	USD174324H
Analyzed	11/07/2013 19:37	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:23	1.02e8	1.31e8	1.27e7	1.64e7	-----	-----	0.78	
2,3,7,8-TCDF	18:25	8.95e6	1.15e7	1.21e6	1.47e6	-----	-----	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	18:34	8.11e7	1.01e8	1.12e7	1.41e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	19:24	8.05e7	1.03e8	9.97e6	1.26e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	19:26	1.91e7		2.35e6		-----	-----		
2,3,7,8-TCDD	19:26	7.40e6	1.02e7	9.32e5	1.23e6	-----	-----	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	26:10	1.16e8	7.39e7	9.93e6	6.40e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	28:32	1.18e8	7.59e7	1.32e7	8.39e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	26:12	5.48e7	3.47e7	4.77e6	3.01e6	-----	-----	1.58	
2,3,4,7,8-PeCDF	28:34	5.65e7	3.61e7	6.15e6	3.94e6	-----	-----	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	29:12	9.09e7	5.89e7	1.09e7	7.03e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:13	2.53e7	4.08e7	3.02e6	4.93e6	-----	-----	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	33:21	5.17e7	1.00e8	1.05e7	2.04e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	6.37e7	1.22e8	1.10e7	2.11e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:16	5.49e7	1.05e8	1.07e7	2.03e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	5.39e7	1.03e8	1.01e7	1.95e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	4.68e7	3.74e7	8.72e6	6.99e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:32	5.31e7	4.21e7	9.43e6	7.32e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	34:17	4.98e7	4.06e7	9.66e6	8.02e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:15	4.36e7	3.39e7	8.10e6	6.35e6	-----	-----	1.28	

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Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR05 (F)
Filename	F131107B_01	GC Column ID	USD174324H
Analyzed	11/07/2013 19:37	ICAL ID	F131105

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	34:28	7.39e7	5.91e7	1.62e7	1.33e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	34:35	9.52e7	7.81e7	1.80e7	1.49e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	34:54	8.55e7	6.96e7	1.59e7	1.32e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:29	3.41e7	2.69e7	7.46e6	5.71e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD	34:36	4.24e7	3.39e7	8.17e6	6.47e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	34:55	3.91e7	3.17e7	7.51e6	6.22e6	-----	-----	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	36:58	5.16e7	1.13e8	1.13e7	2.43e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	38:34	3.98e7	9.20e7	7.83e6	1.85e7	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	36:58	5.19e7	5.02e7	1.15e7	1.11e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:34	4.01e7	4.17e7	7.82e6	7.94e6	-----	-----	0.96	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	7.52e7	7.04e7	1.57e7	1.47e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	38:06	3.79e7	3.60e7	7.82e6	7.22e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	5.80e7	6.50e7	1.23e7	1.35e7	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:50	1.25e8	1.42e8	2.56e7	2.83e7	-----	-----	0.88	
OCDD	40:51	5.53e7	6.56e7	1.12e7	1.31e7	-----	-----	0.84	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR06 (U)
Filename	U131108A_03	GC Column ID	USD227224H
Analyzed	11/08/2013 13:53	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:42	2.15e7	2.76e7	3.03e6	4.02e6	-----	-----	0.78	
2,3,7,8-TCDF	18:44	2.02e6	2.50e6	2.95e5	3.83e5	-----	-----	0.81	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:57	1.46e7	1.80e7	2.12e6	2.63e6	-----	-----	0.81	
2,3,7,8-TCDD-13C	19:44	1.38e7	1.75e7	1.89e6	2.31e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:46	3.53e6		4.94e5		-----	-----		
2,3,7,8-TCDD	19:46	1.61e6	2.17e6	2.19e5	2.83e5	-----	-----	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	26:27	1.81e7	1.14e7	1.94e6	1.19e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	28:34	1.82e7	1.17e7	2.57e6	1.68e6	-----	-----	1.55	
1,2,3,7,8-PeCDF	26:28	8.33e6	5.41e6	9.01e5	5.72e5	-----	-----	1.54	
2,3,4,7,8-PeCDF	28:36	8.47e6	5.59e6	1.22e6	8.41e5	-----	-----	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	29:10	1.05e7	6.83e6	1.52e6	9.65e5	-----	-----	1.54	
1,2,3,7,8-PeCDD	29:13	3.44e6	5.54e6	5.36e5	8.12e5	-----	-----	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	33:21	6.30e6	1.20e7	1.38e6	2.56e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:31	8.57e6	1.61e7	1.55e6	2.88e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:20	7.09e6	1.38e7	1.46e6	2.72e6	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:22	6.19e6	1.17e7	1.15e6	2.24e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	33:22	5.30e6	4.50e6	1.18e6	9.64e5	-----	-----	1.18	
1,2,3,6,7,8-HxCDF	33:32	7.12e6	5.61e6	1.32e6	1.09e6	-----	-----	1.27	
2,3,4,6,7,8-HxCDF	34:21	6.30e6	4.97e6	1.27e6	9.97e5	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	35:23	4.67e6	3.97e6	8.73e5	7.11e5	-----	-----	1.18	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-286	Instrument ID	10MSHR06 (U)
Filename	U131108A_03	GC Column ID	USD227224H
Analyzed	11/08/2013 13:53	ICAL ID	U131104

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	34:34	7.51e6	6.12e6	1.79e6	1.46e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDD-13C	34:42	1.10e7	8.96e6	2.08e6	1.69e6	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	35:01	9.13e6	7.31e6	1.63e6	1.28e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:35	3.98e6	3.36e6	9.73e5	7.84e5	-----	-----	1.18	
1,2,3,6,7,8-HxCDD	34:42	5.56e6	4.15e6	1.09e6	8.09e5	-----	-----	1.34	
1,2,3,7,8,9-HxCDD	35:02	4.46e6	3.77e6	8.29e5	6.98e5	-----	-----	1.18	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:15	5.16e6	1.15e7	1.18e6	2.58e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:57	3.80e6	8.53e6	8.37e5	1.93e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:15	5.65e6	5.53e6	1.28e6	1.22e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	38:58	4.06e6	3.96e6	8.97e5	8.68e5	-----	-----	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	38:28	5.85e6	5.61e6	1.36e6	1.28e6	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	38:28	3.10e6	3.10e6	7.32e5	6.89e5	-----	-----	1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:31	6.95e6	7.36e6	1.68e6	1.75e6	-----	-----	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:23	1.02e7	1.14e7	2.29e6	2.41e6	-----	-----	0.89	
OCDD	41:24	5.11e6	5.62e6	1.16e6	1.28e6	-----	-----	0.91	

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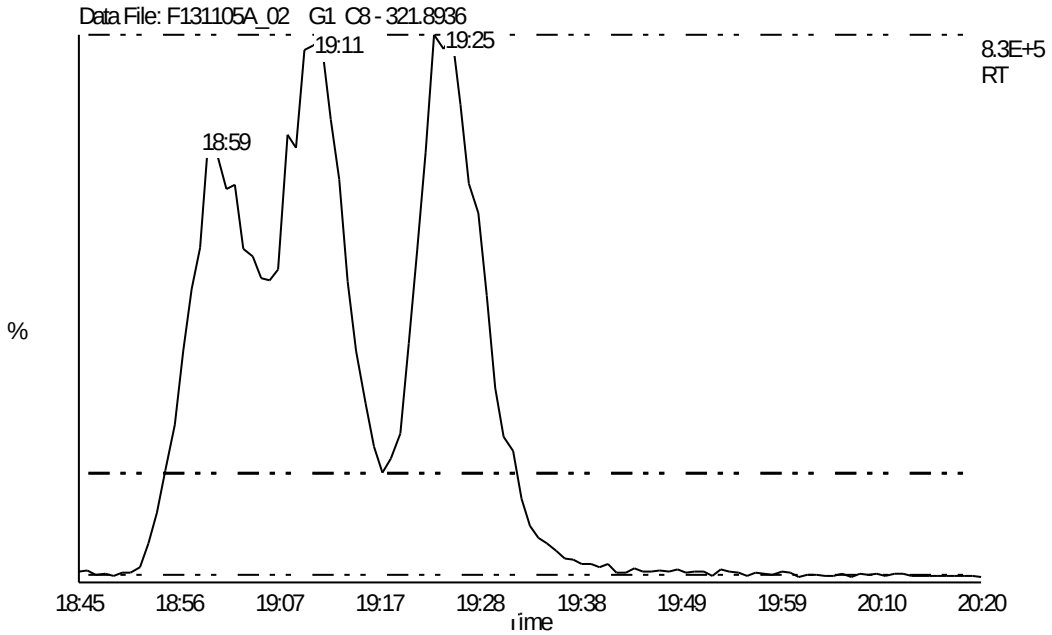
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	SMT	
Raw Data File	F131105A_02	Instrument ID	10MSHR05 (F)	
Date Analyzed	11/5/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	08:19	GC Column S/N	USD174324H	
Resolution	**18.8%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:23	20:53
PeCDF	341.8567	20:58	30:15
HxCDF	373.8207	31:38	35:13
HpCDF	407.7818	36:57	38:34
OCDF	441.7428	40:56	0:00
TCDD	321.8936	15:46	20:39
PeCDD	357.8517	23:59	29:52
HxCDD	391.8127	32:30	34:54
HpCDD	425.7737	37:16	38:04
OCDD	459.7347	40:50	0:00
1234-TCDD-13C(RS)	331.9367	18:32	0:00
123789-HxCDD-13C(RS)	401.8559	34:54	0:00

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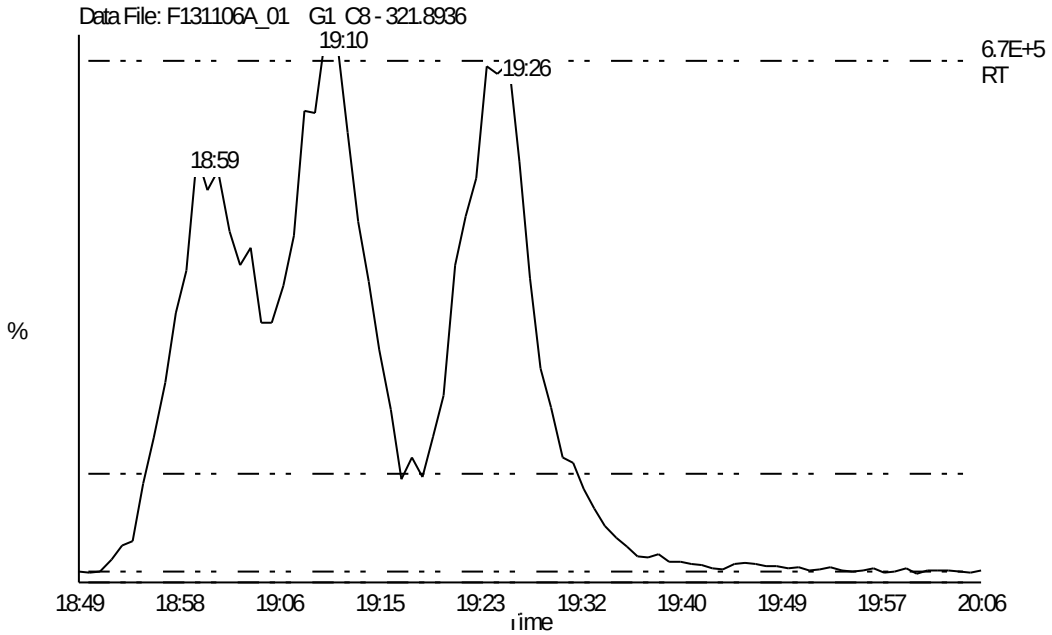
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	BAL	
Raw Data File	F131106A_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	11/6/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	18:18	GC Column S/N	USD174324H	
Resolution	**19.2%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:23	20:53
PeCDF	341.8567	20:58	30:15
HxCDF	373.8207	31:38	35:13
HpCDF	407.7818	36:57	38:34
OCDF	441.7428	40:56	0:00
TCDD	321.8936	15:46	20:39
PeCDD	357.8517	24:00	29:54
HxCDD	391.8127	32:30	34:54
HpCDD	425.7737	37:16	38:04
OCDD	459.7347	40:50	0:00
1234-TCDD-13C(RS)	331.9367	18:33	0:00
123789-HxCDD-13C(RS)	401.8559	0:00	34:54

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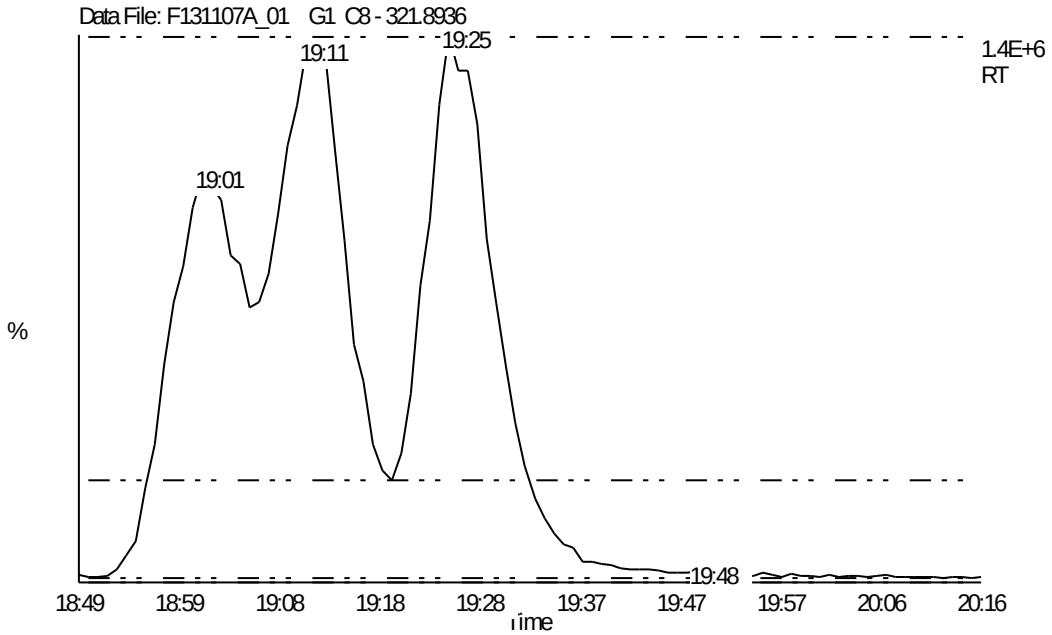
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	SMT	
Raw Data File	F131107A_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	11/7/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	08:24	GC Column S/N	USD174324H	
Resolution	**18.1%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:25	20:56
PeCDF	341.8567	20:59	30:15
HxCDF	373.8207	31:39	35:14
HpCDF	407.7818	36:58	38:35
OCDF	441.7428	40:57	0:00
TCDD	321.8936	15:48	20:41
PeCDD	357.8517	24:00	29:54
HxCDD	391.8127	32:31	34:55
HpCDD	425.7737	37:16	38:05
OCDD	459.7347	40:50	0:00
1234-TCDD-13C(RS)	331.9367	18:34	0:00
123789-HxCDD-13C(RS)	401.8559	34:54	0:00

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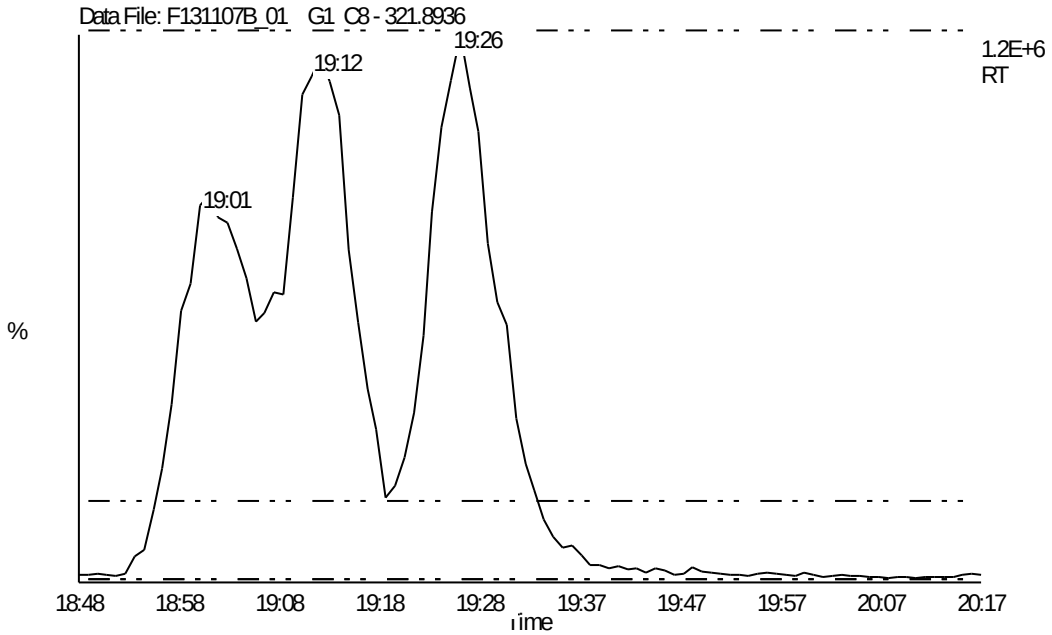
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	SMT	
Raw Data File	F131107B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	11/7/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	19:37	GC Column S/N	USD174324H	
Resolution	**14.3%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:25	20:56
PeCDF	341.8567	20:59	30:16
HxCDF	373.8207	31:39	35:14
HpCDF	407.7818	36:57	38:34
OCDF	441.7428	40:57	0:00
TCDD	321.8936	15:48	20:42
PeCDD	357.8517	24:00	29:54
HxCDD	391.8127	32:31	34:54
HpCDD	425.7737	37:16	38:05
OCDD	459.7347	40:50	0:00
1234-TCDD-13C(RS)	331.9367	18:34	0:00
123789-HxCDD-13C(RS)	401.8559	34:54	0:00

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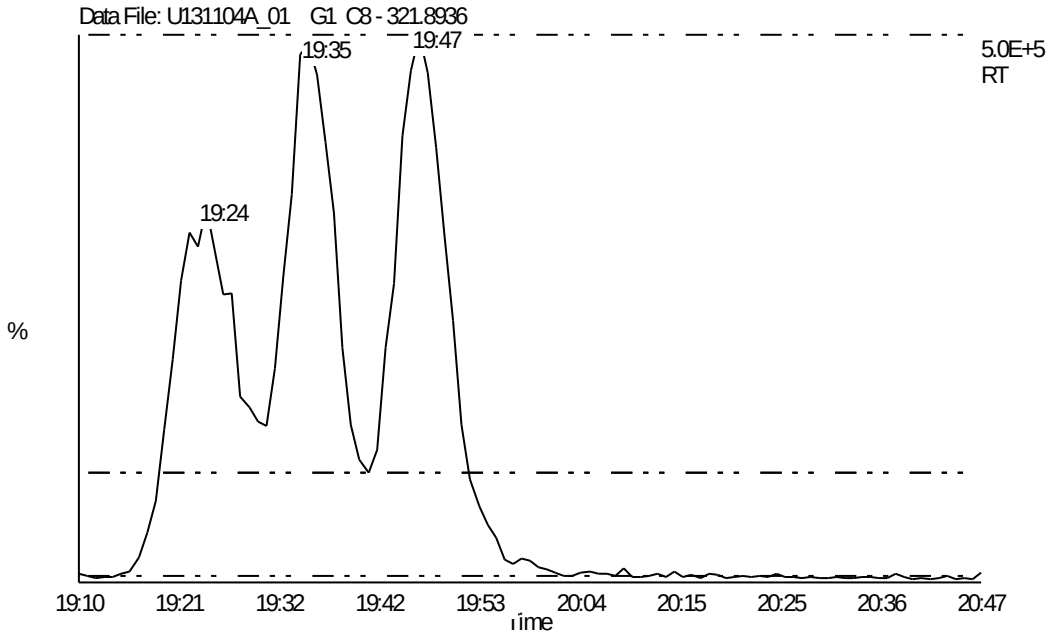
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	SMT	
Raw Data File	U131104A_01	Instrument ID	10MSHR06 (U)	
Date Analyzed	11/4/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	09:19	GC Column S/N	USD227224H	
Resolution	**19.0%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:42	21:20
PeCDF	341.8567	21:19	30:15
HxCDF	373.8207	31:34	35:23
HpCDF	407.7818	37:15	38:58
OCDF	441.7428	41:30	0:00
TCDD	321.8936	16:06	21:05
PeCDD	357.8517	24:21	29:52
HxCDD	391.8127	32:28	35:02
HpCDD	425.7737	37:37	38:28
OCDD	459.7347	41:23	0:00
1234-TCDD-13C(RS)	331.9367	18:56	0:00
123789-HxCDD-13C(RS)	401.8559	35:01	0:00

REPORT OF LABORATORY ANALYSIS

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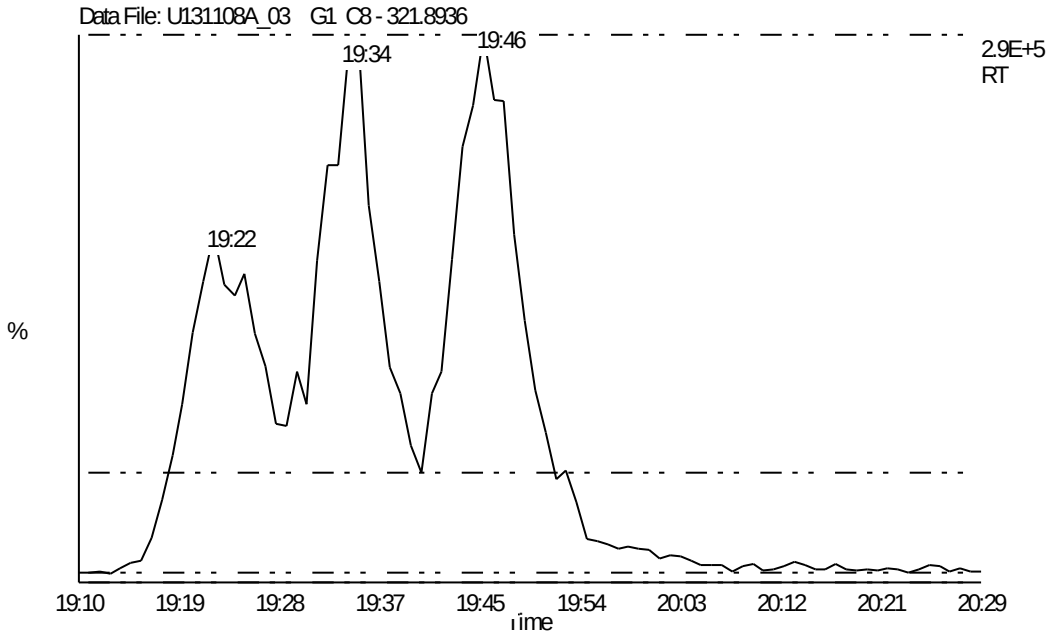
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-286	Injected By	BAL	
Raw Data File	U131108A_03	Instrument ID	10MSHR06 (U)	
Date Analyzed	11/8/2013	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	13:53	GC Column S/N	USD227224H	
Resolution	**18.7%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	14:42	21:19
PeCDF	341.8567	21:19	30:15
HxCDF	373.8207	31:33	35:23
HpCDF	407.7818	37:14	38:58
OCDF	441.7428	41:30	0:00
TCDD	321.8936	16:06	21:05
PeCDD	357.8517	24:20	29:53
HxCDD	391.8127	32:28	35:02
HpCDD	425.7737	37:36	38:27
OCDD	459.7347	41:22	0:00
1234-TCDD-13C(RS)	331.9367	18:56	0:00
123789-HxCDD-13C(RS)	401.8559	35:01	0:00

REPORT OF LABORATORY ANALYSIS

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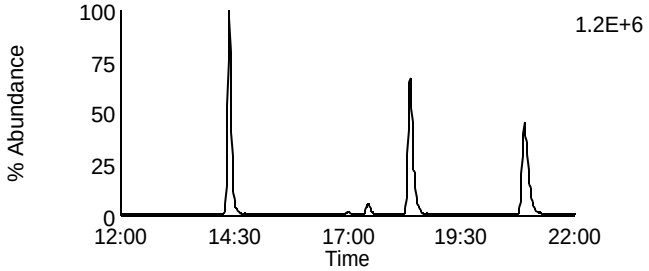
Homologue Group: Tetras

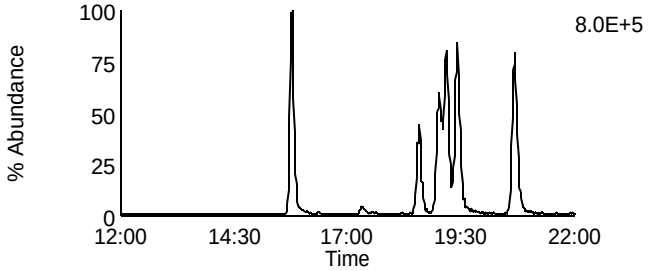
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

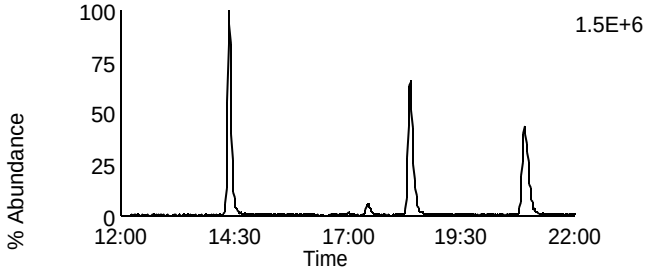
Data File: F131105A_02 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT



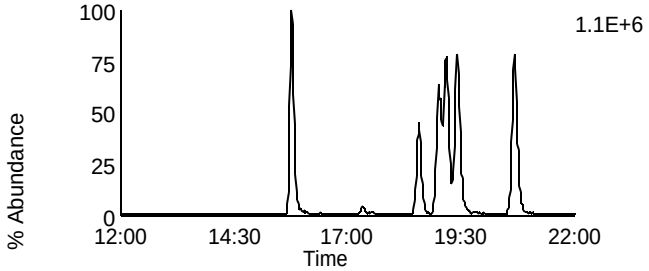
Data File: F131105A_02 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT



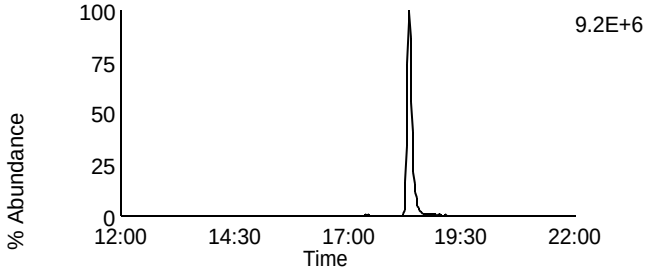
Data File: F131105A_02 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT



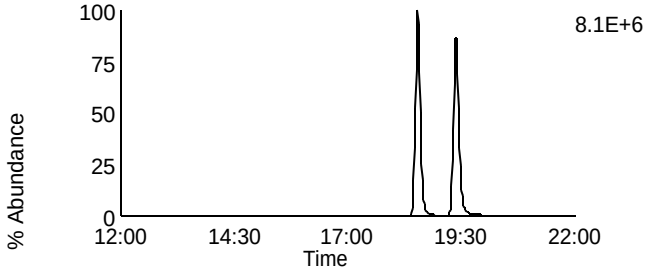
Data File: F131105A_02 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT



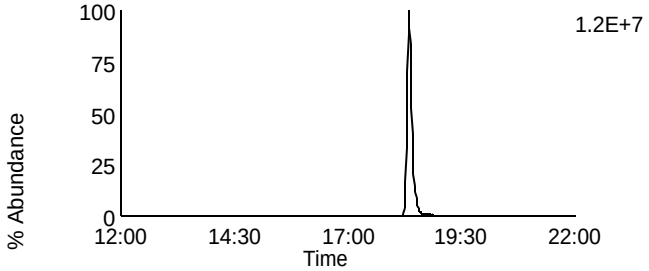
Data File: F131105A_02 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT



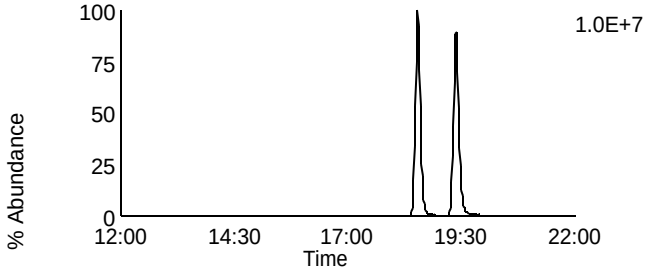
Data File: F131105A_02 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT



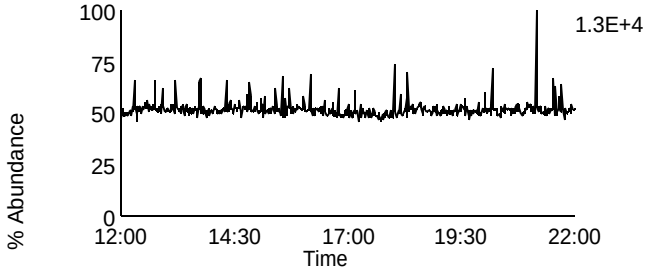
Data File: F131105A_02 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT



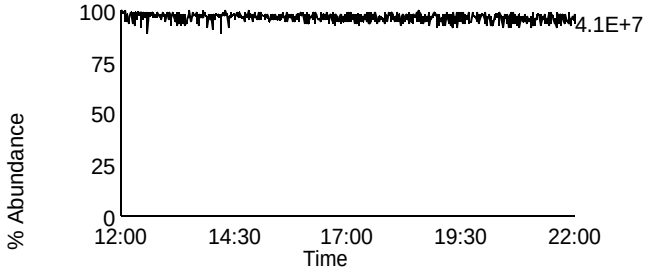
Data File: F131105A_02 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

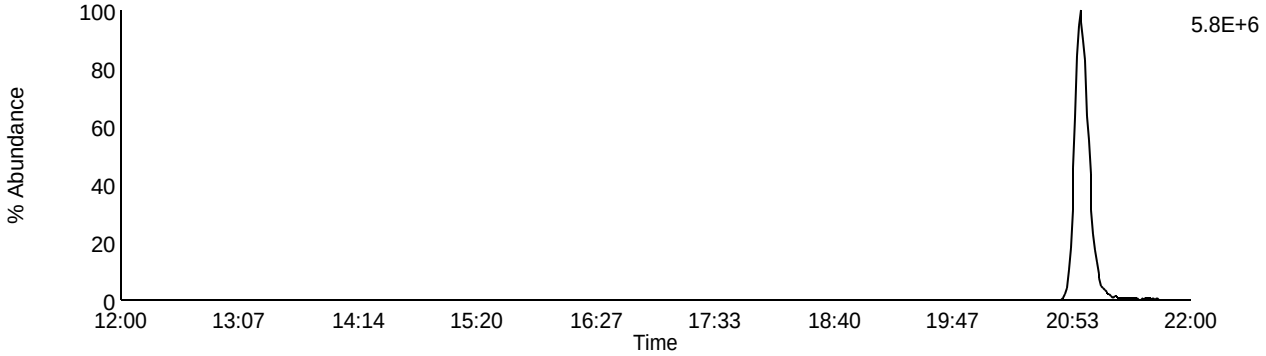


Homologue Group: Penta & Cleanup

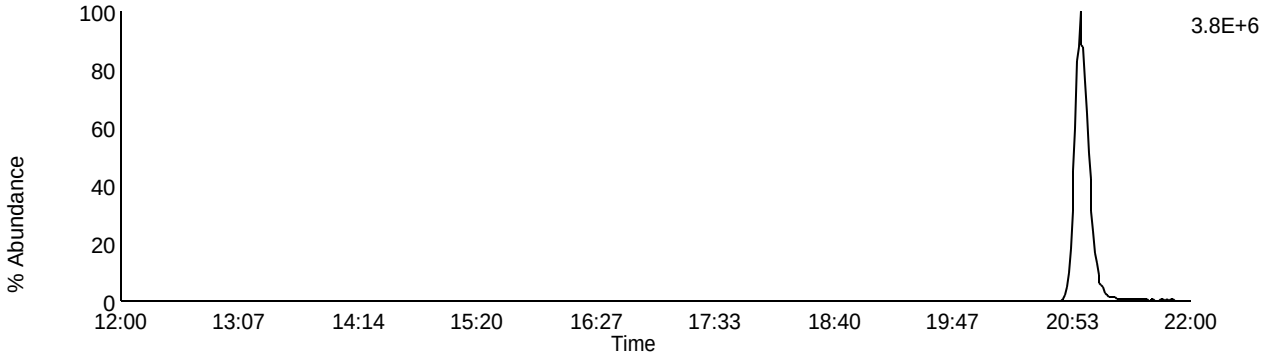
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

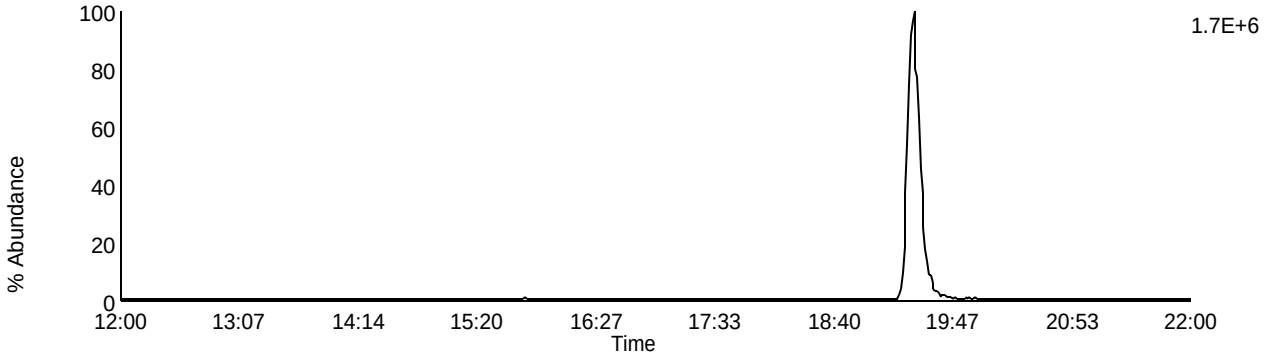
Data File: F131105A_02 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT



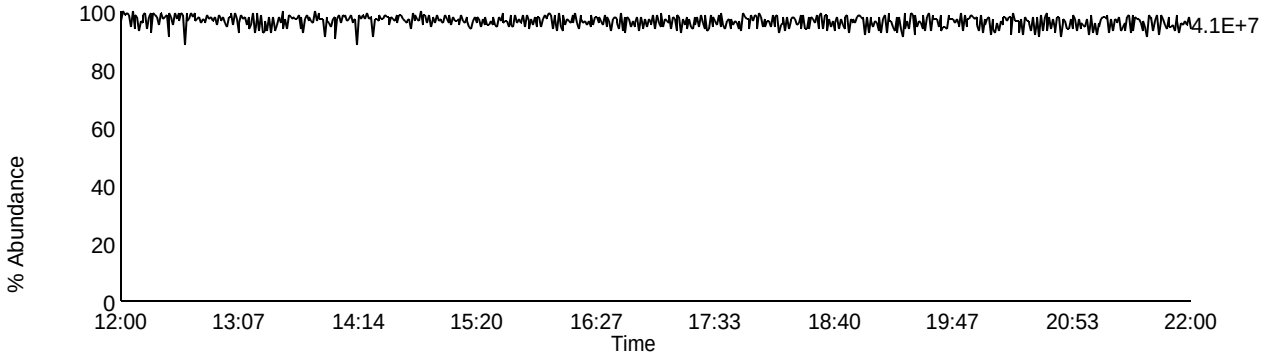
Data File: F131105A_02 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

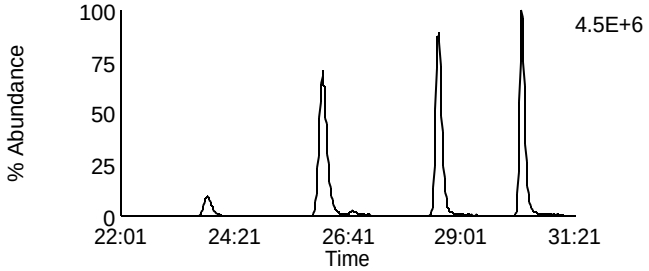


Homologue Group: Pentas

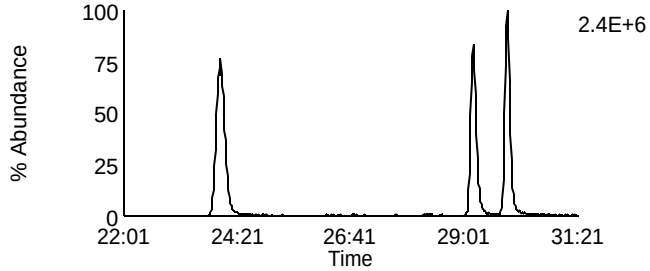
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

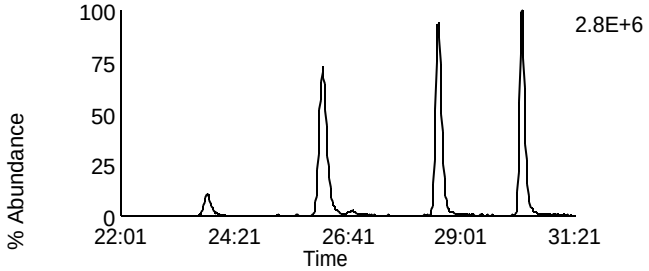
Data File: F131105A_02 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT



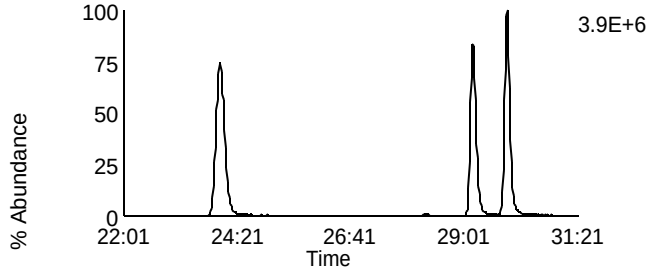
Data File: F131105A_02 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT



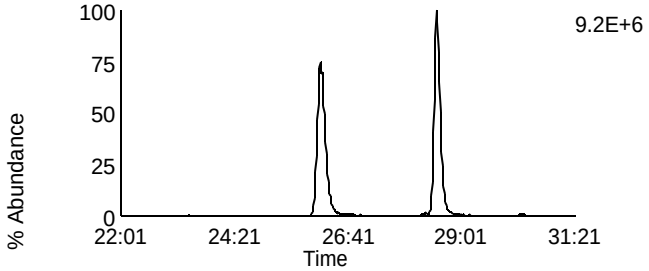
Data File: F131105A_02 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT



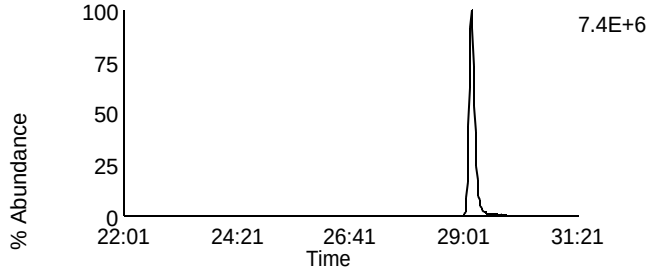
Data File: F131105A_02 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT



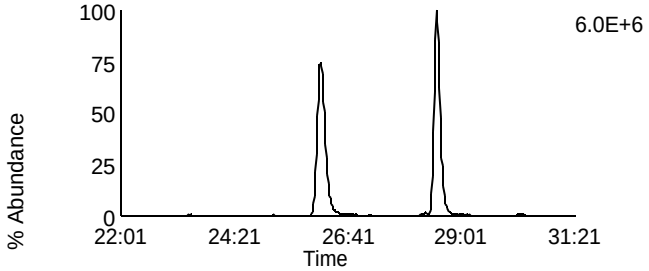
Data File: F131105A_02 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT



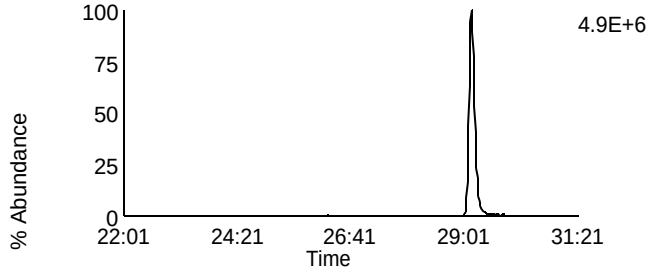
Data File: F131105A_02 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT



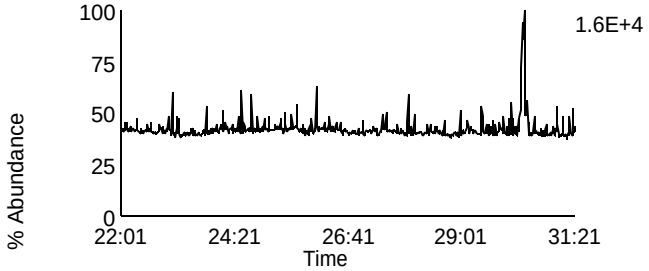
Data File: F131105A_02 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT



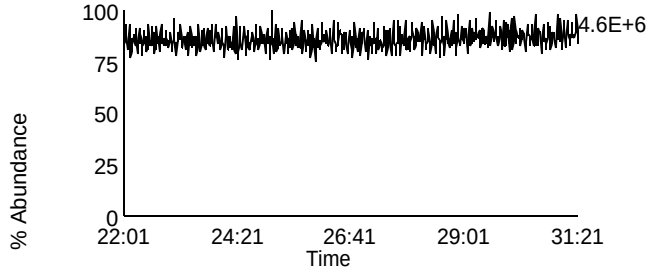
Data File: F131105A_02 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT

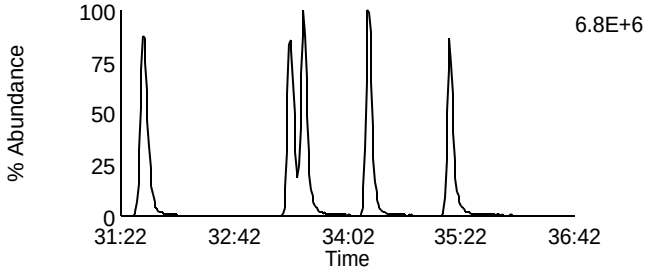


Homologue Group: Hexas

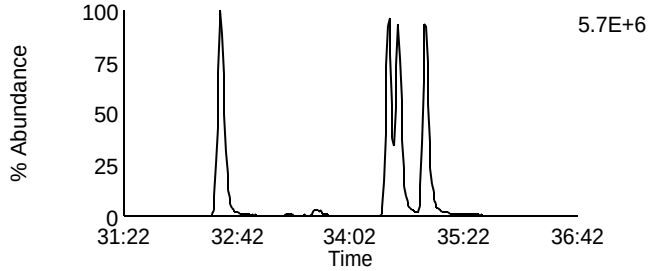
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

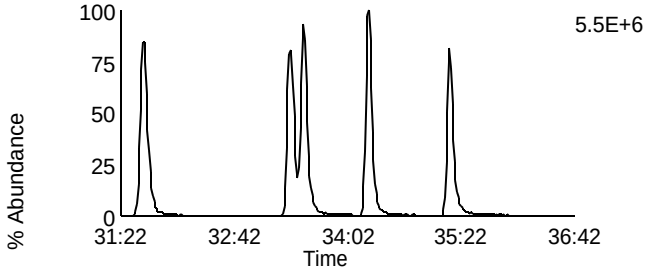
Data File: F131105A_02 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT



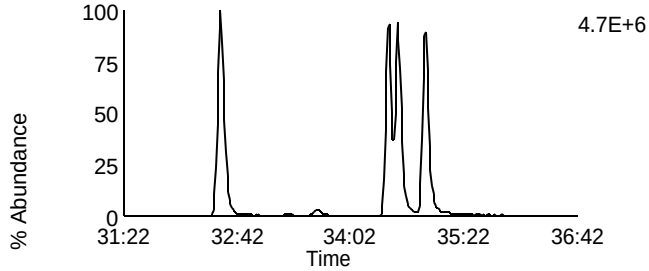
Data File: F131105A_02 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT



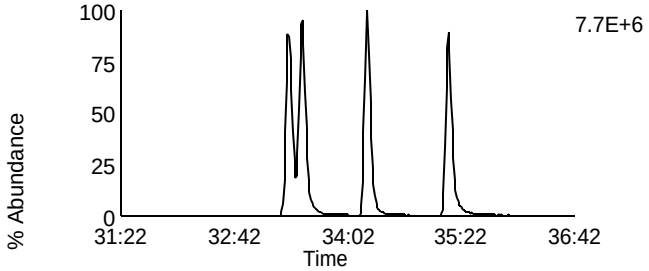
Data File: F131105A_02 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT



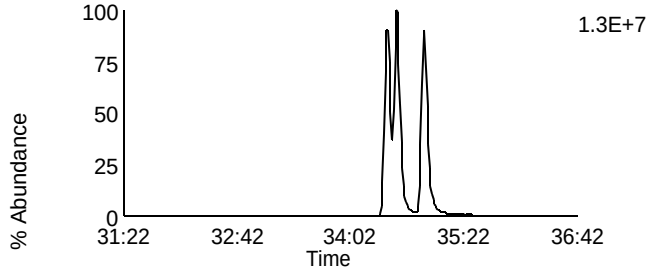
Data File: F131105A_02 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT



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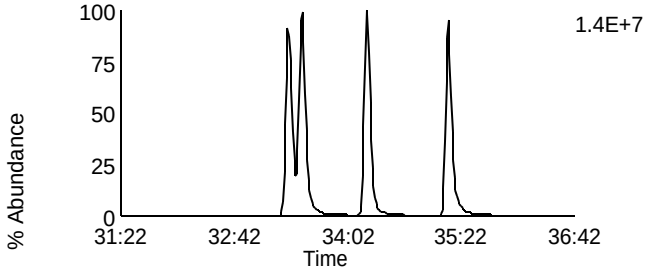
CAL CS3/CPM-7604-286 - SMT



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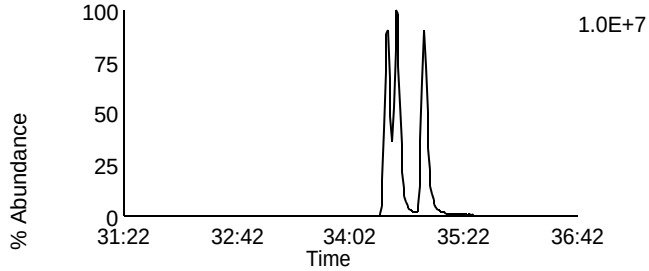
CAL CS3/CPM-7604-286 - SMT



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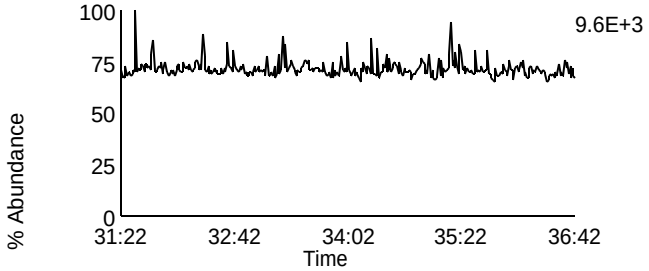
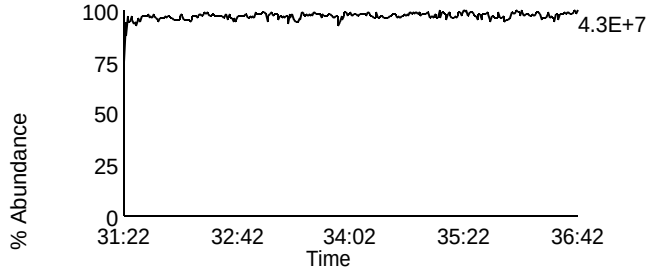
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT

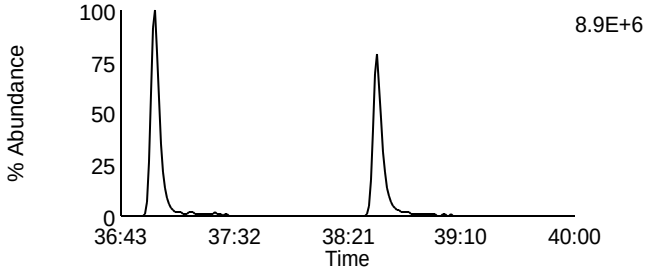


Homologue Group: Heptas

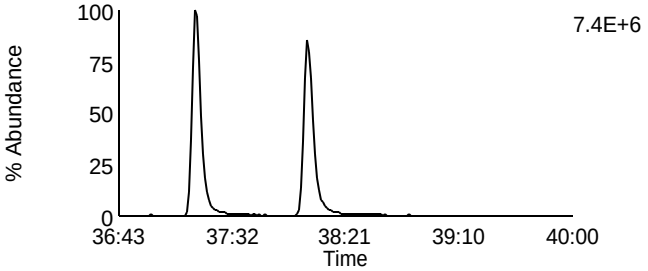
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

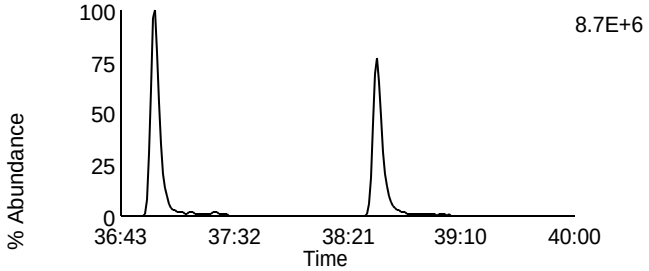
Data File: F131105A_02 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT



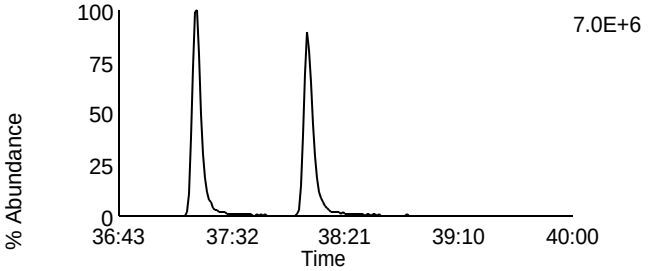
Data File: F131105A_02 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT



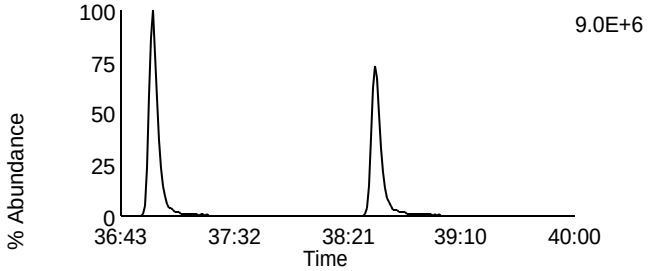
Data File: F131105A_02 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT



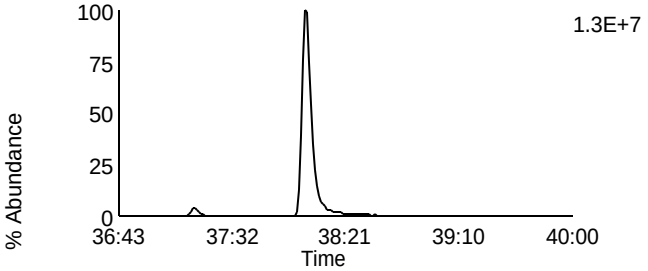
Data File: F131105A_02 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT



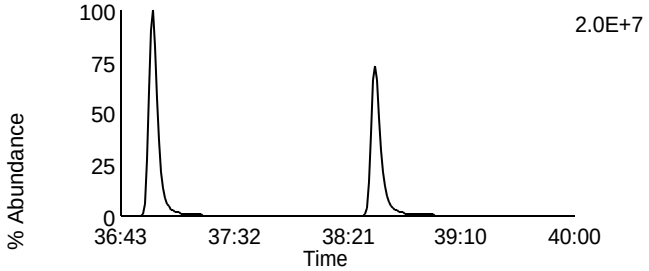
Data File: F131105A_02 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT



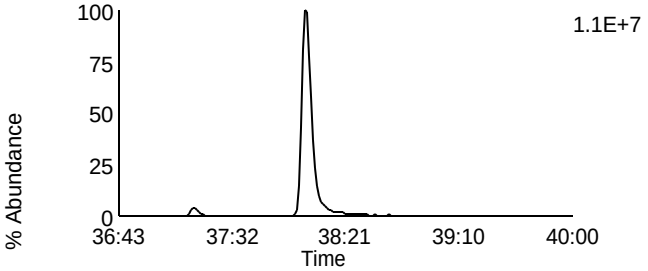
Data File: F131105A_02 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT



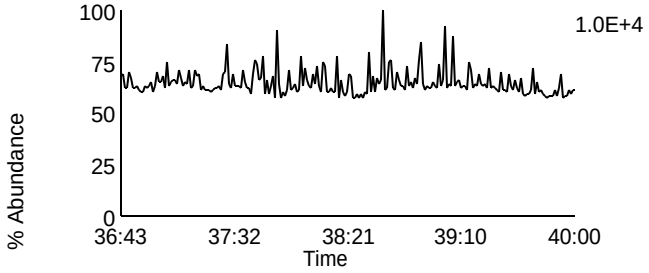
Data File: F131105A_02 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT



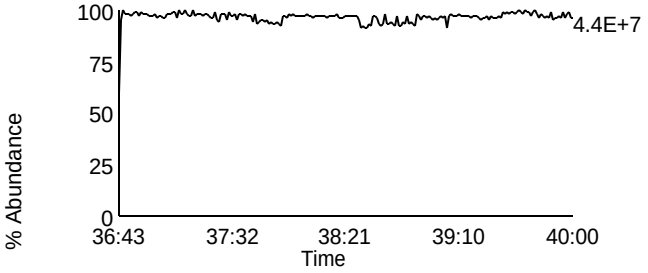
Data File: F131105A_02 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT

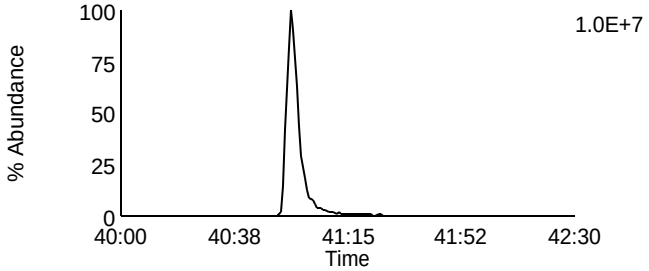


Homologue Group: Octas

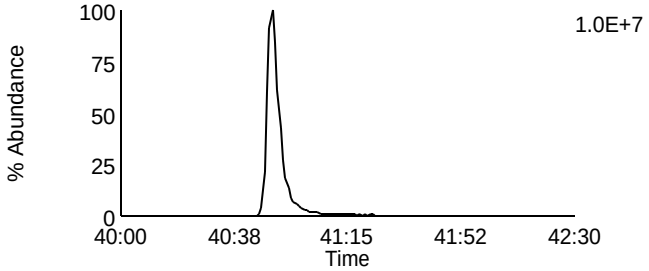
Data File Name: F131105A_02
Date Acquired: 11/5/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

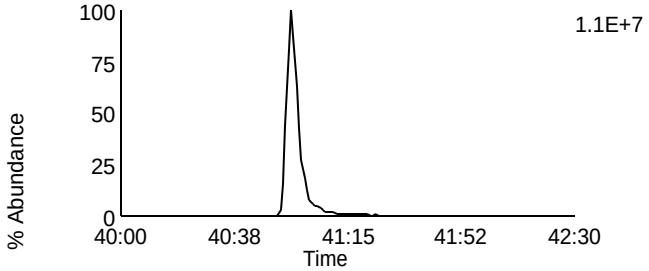
Data File: F131105A_02 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT



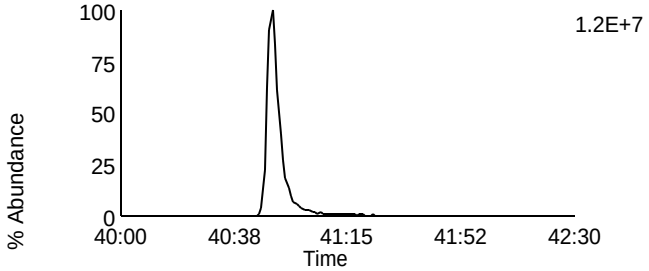
Data File: F131105A_02 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT



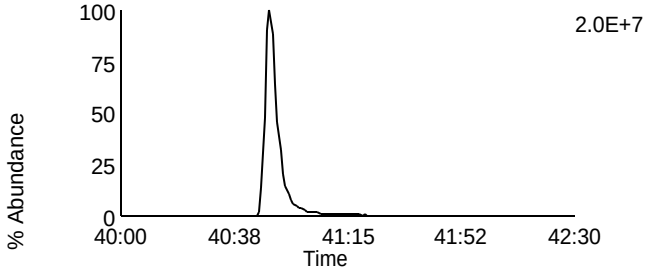
Data File: F131105A_02 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT



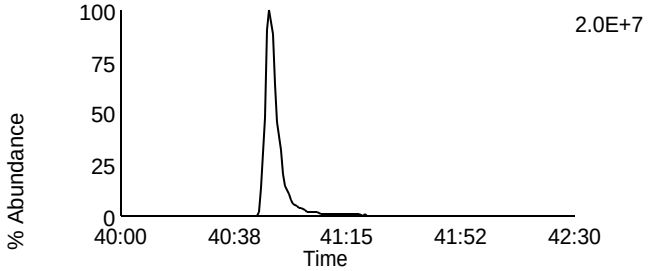
Data File: F131105A_02 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT



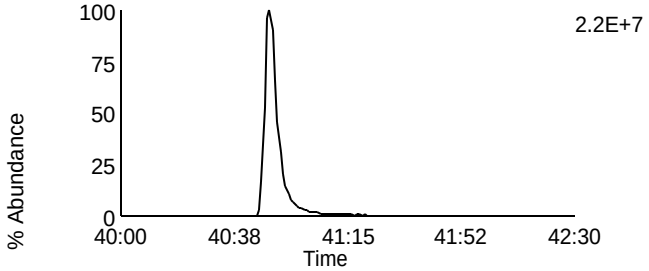
Data File: F131105A_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



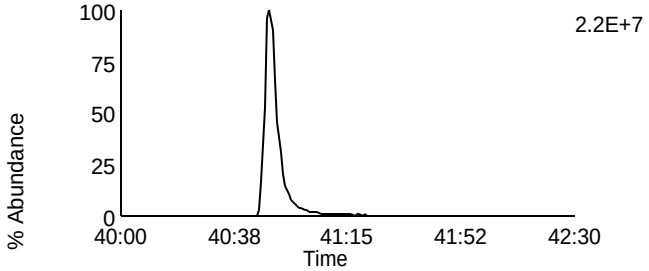
Data File: F131105A_02 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



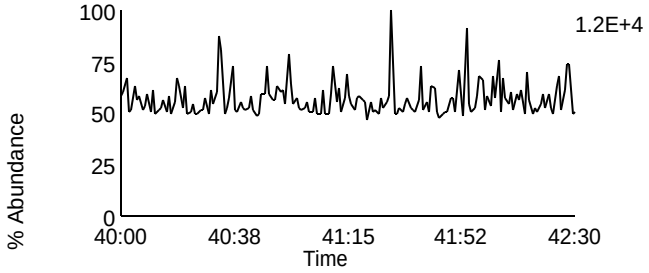
Data File: F131105A_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



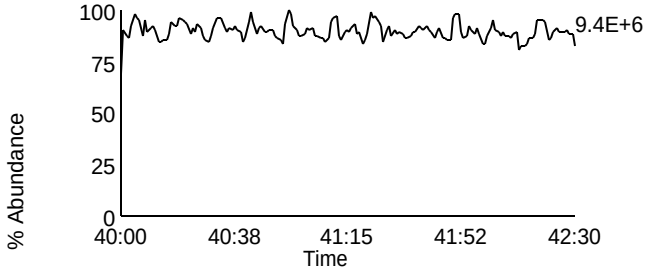
Data File: F131105A_02 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT



Data File: F131105A_02 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT

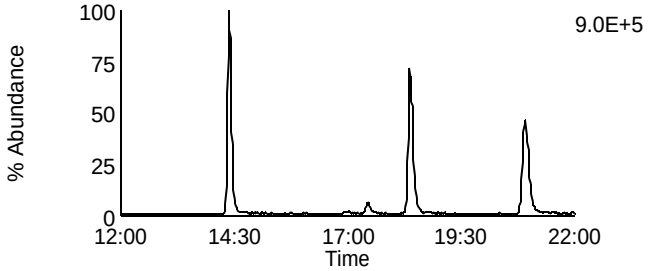


Homologue Group: Tetras

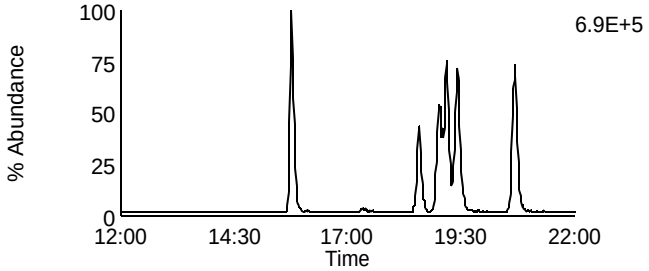
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

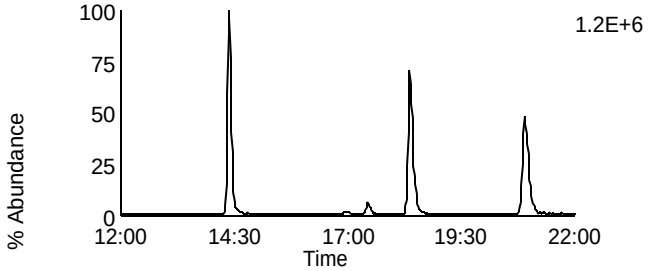
Data File: F131106A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - BAL TC



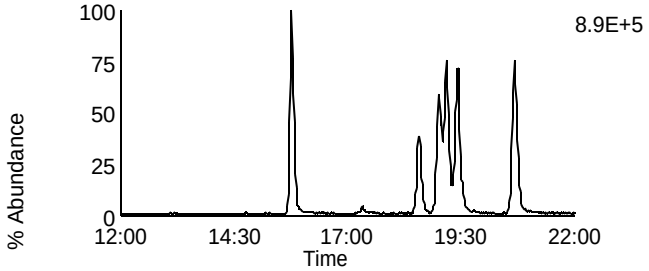
Data File: F131106A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - BAL TC



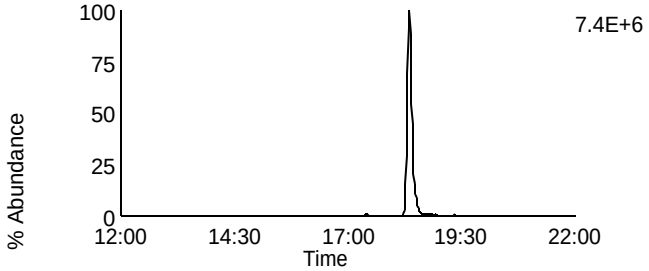
Data File: F131106A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - BAL TC



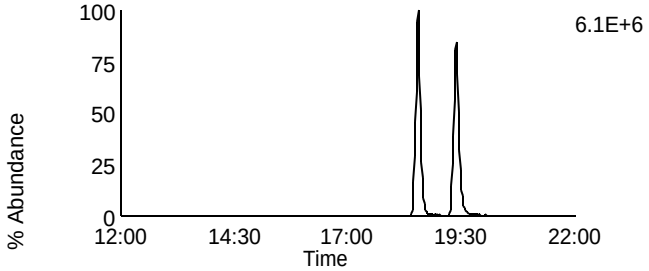
Data File: F131106A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - BAL TC



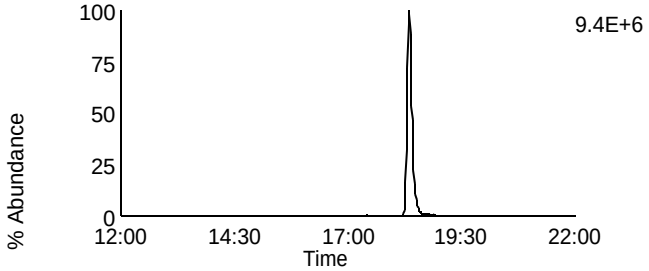
Data File: F131106A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - BAL TC



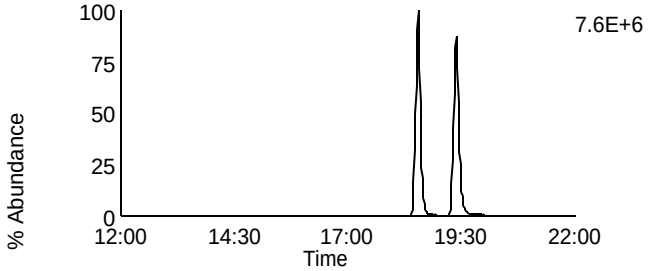
Data File: F131106A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - BAL TC



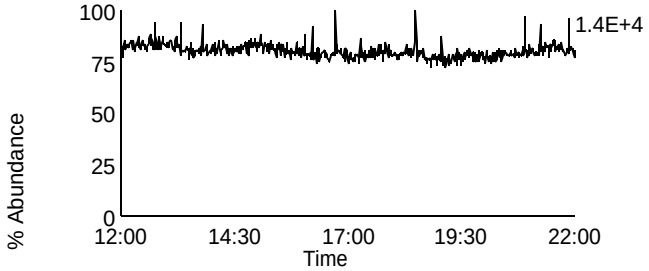
Data File: F131106A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - BAL TC



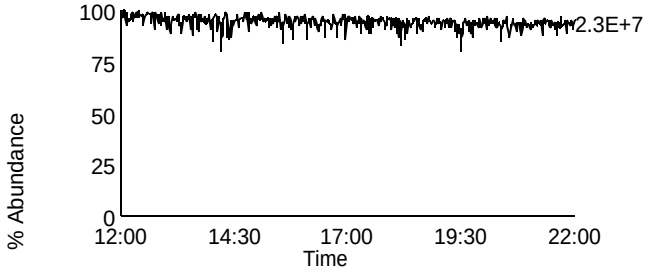
Data File: F131106A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL TC

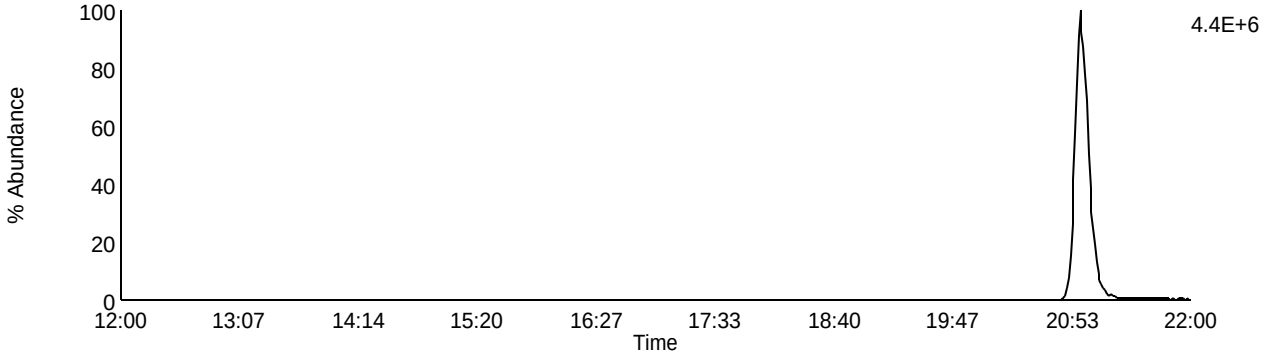


Homologue Group: Penta & Cleanup

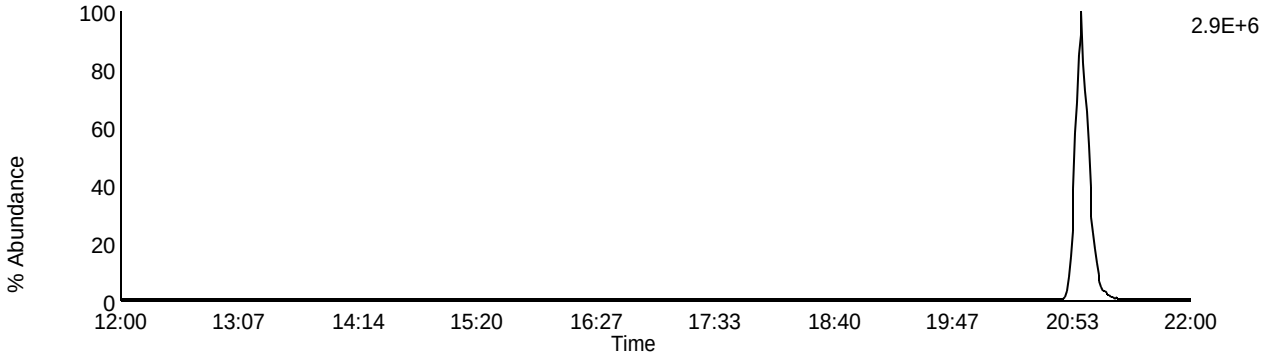
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

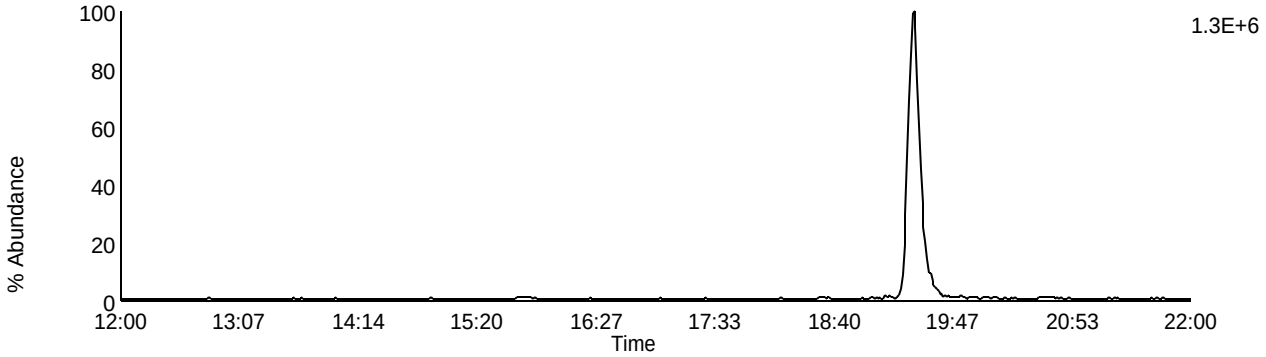
Data File: F131106A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - BAL TC



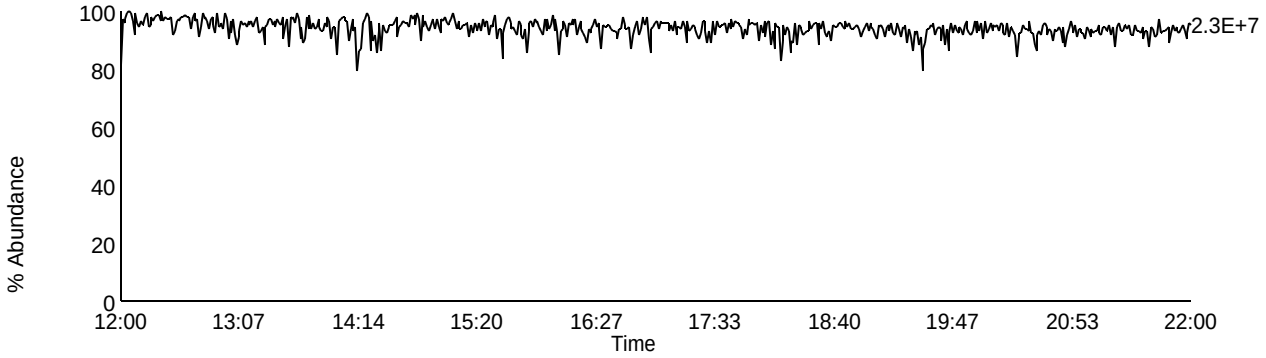
Data File: F131106A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL TC

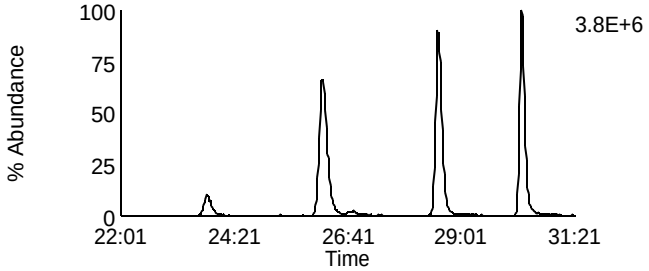


Homologue Group: Pentas

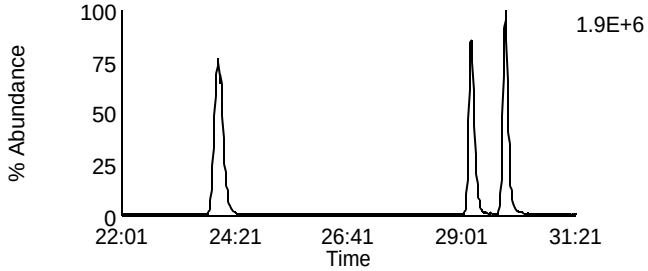
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

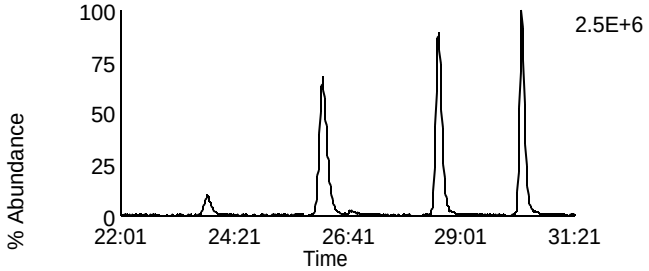
Data File: F131106A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - BAL TC



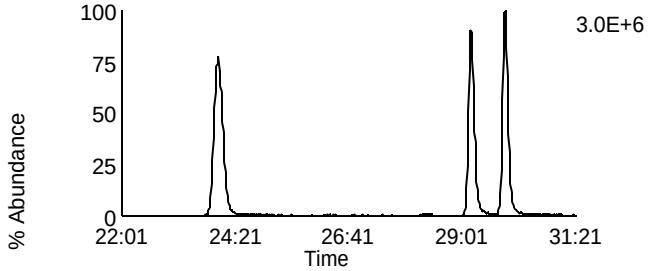
Data File: F131106A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - BAL TC



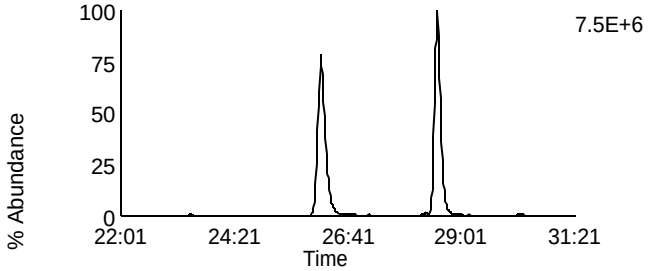
Data File: F131106A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - BAL TC



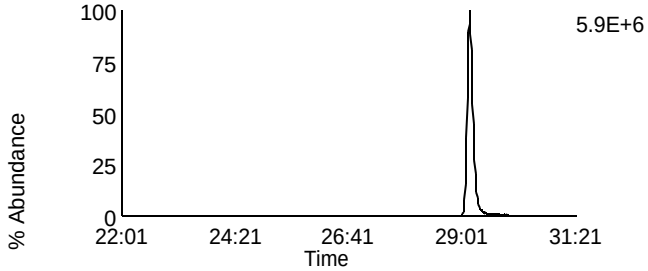
Data File: F131106A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - BAL TC



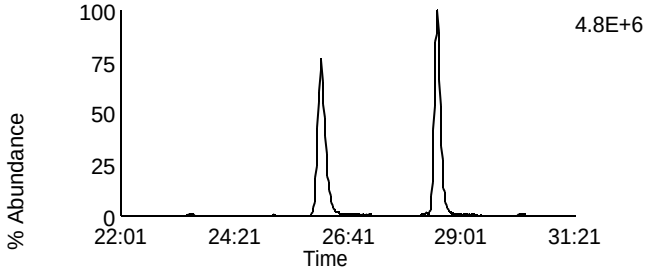
Data File: F131106A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - BAL TC



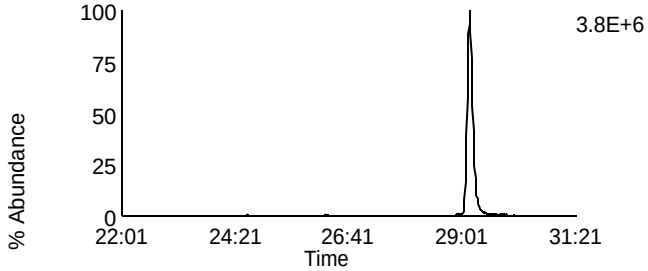
Data File: F131106A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - BAL TC



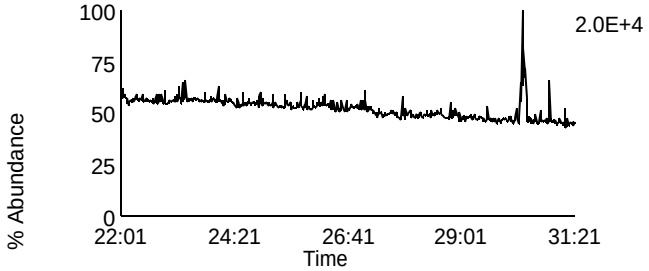
Data File: F131106A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - BAL TC



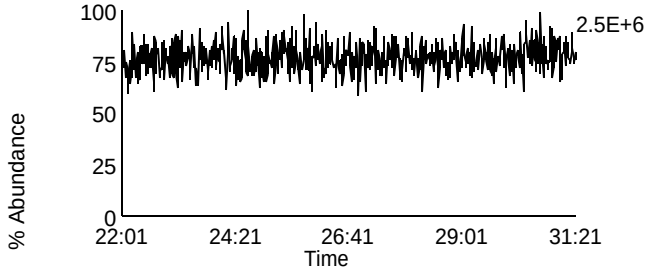
Data File: F131106A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - BAL TC

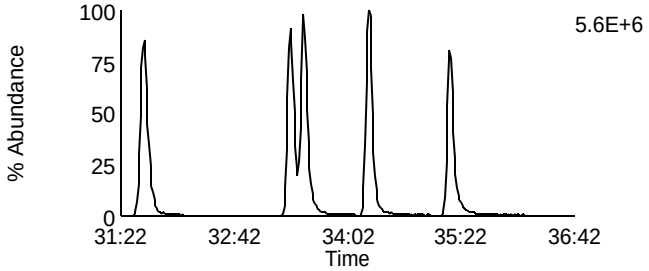


Homologue Group: Hexas

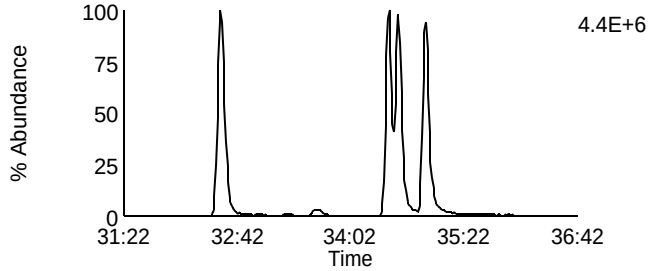
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

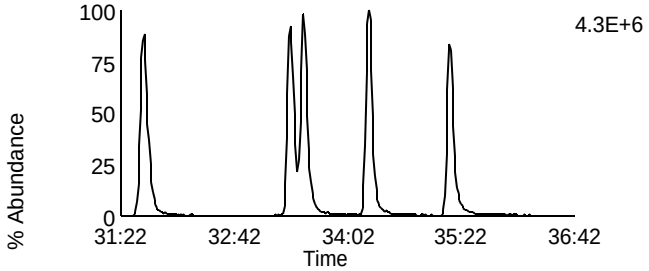
Data File: F131106A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - BAL TC



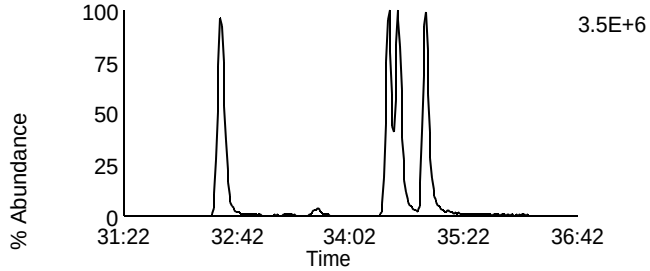
Data File: F131106A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - BAL TC



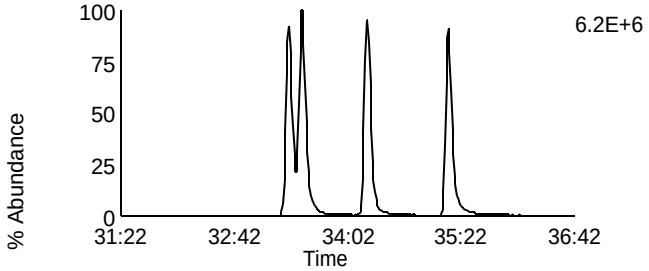
Data File: F131106A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - BAL TC



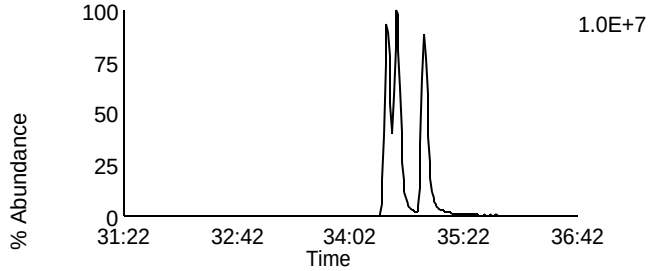
Data File: F131106A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - BAL TC



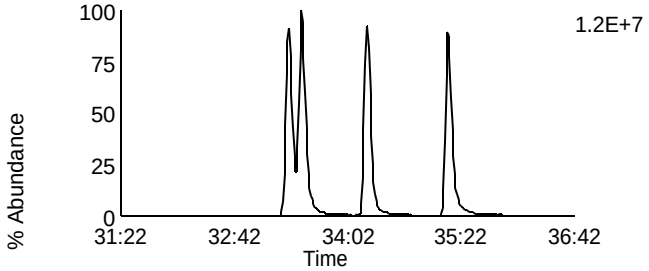
Data File: F131106A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - BAL TC



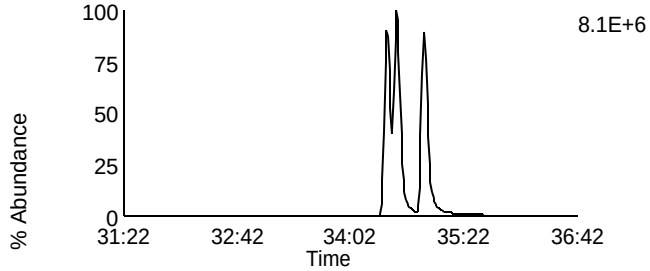
Data File: F131106A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - BAL TC



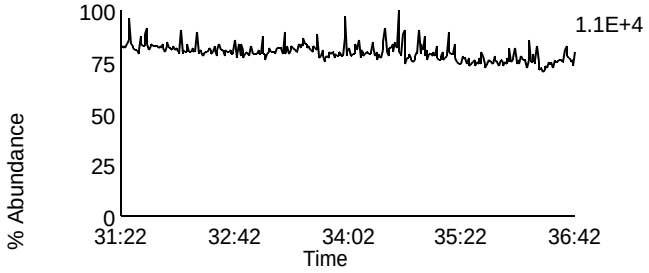
Data File: F131106A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - BAL TC



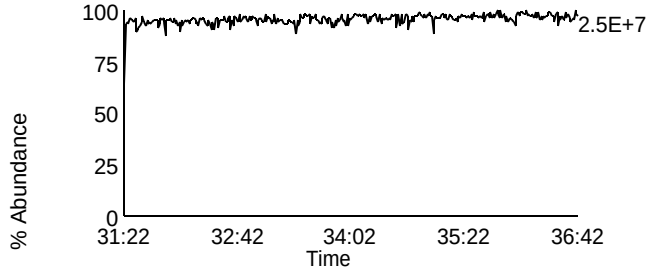
Data File: F131106A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - BAL TC

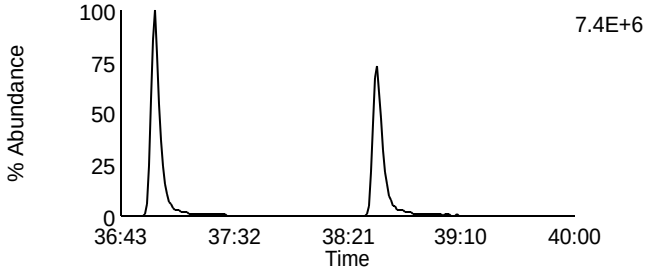


Homologue Group: Heptas

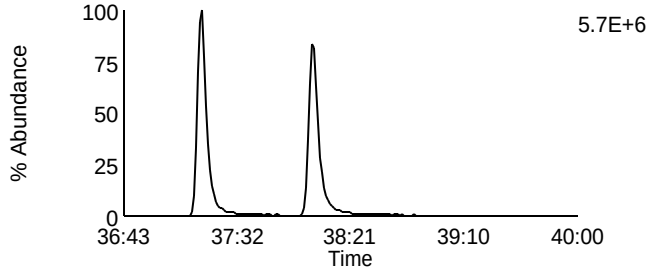
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

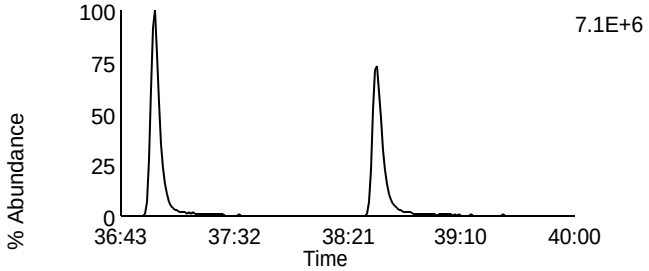
Data File: F131106A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - BAL TC



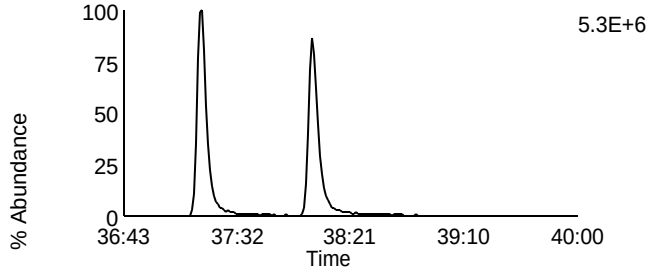
Data File: F131106A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - BAL TC



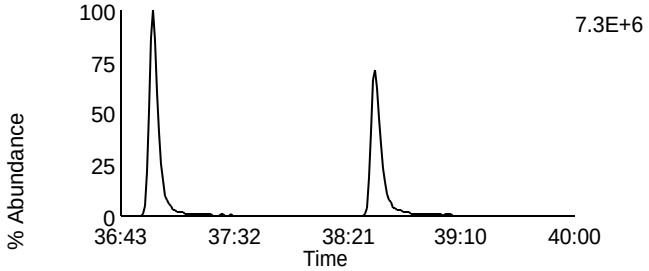
Data File: F131106A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - BAL TC



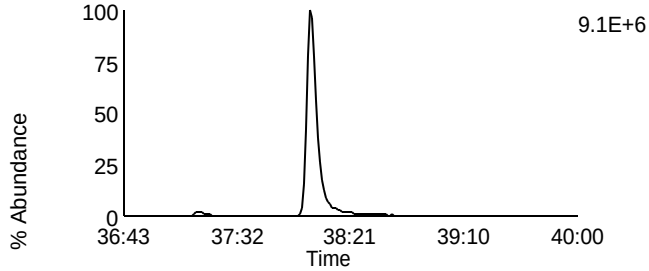
Data File: F131106A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - BAL TC



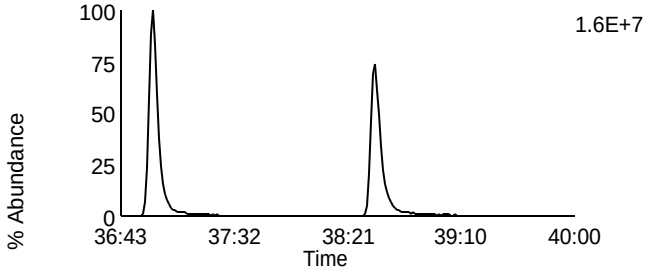
Data File: F131106A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - BAL TC



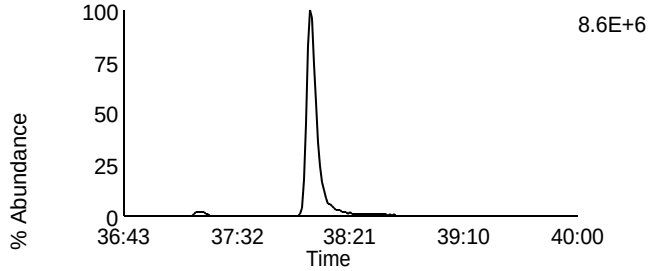
Data File: F131106A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - BAL TC



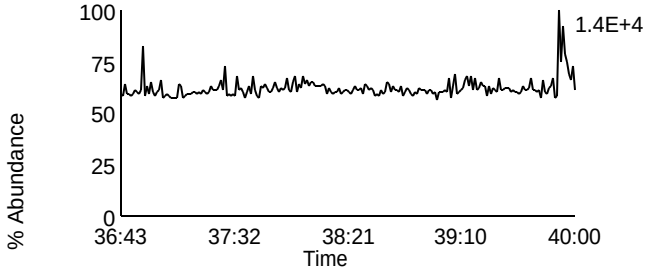
Data File: F131106A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - BAL TC



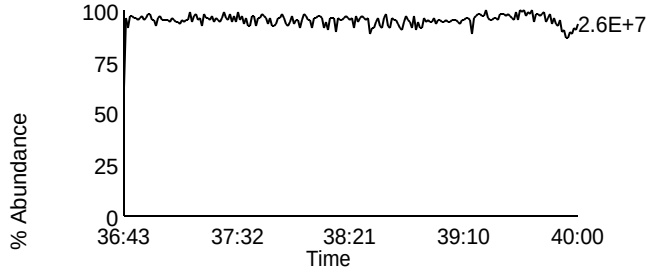
Data File: F131106A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - BAL TC

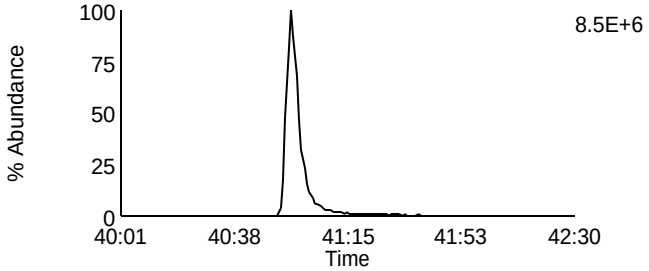


Homologue Group: Octas

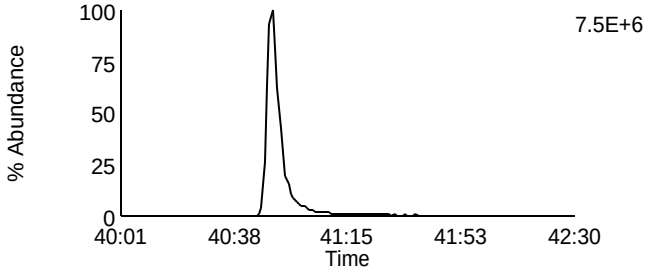
Data File Name: F131106A_01
Date Acquired: 11/6/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

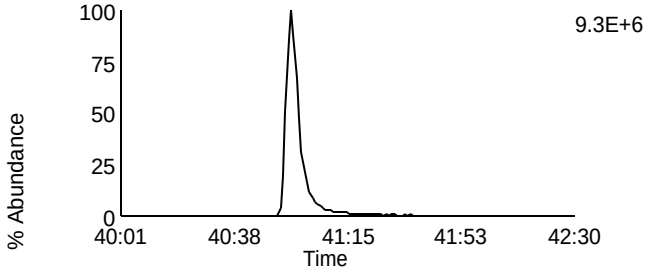
Data File: F131106A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - BAL TC



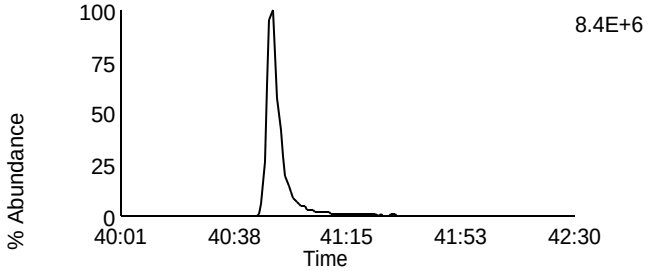
Data File: F131106A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - BAL TC



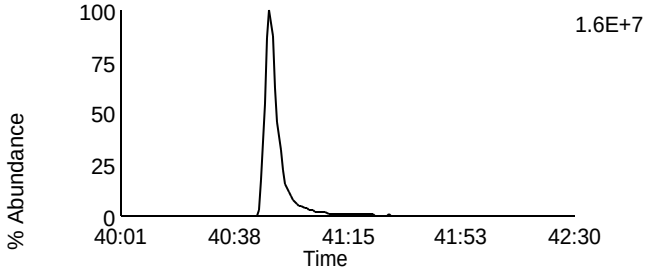
Data File: F131106A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - BAL TC



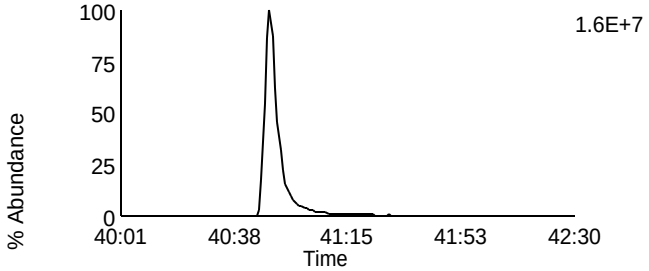
Data File: F131106A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - BAL TC



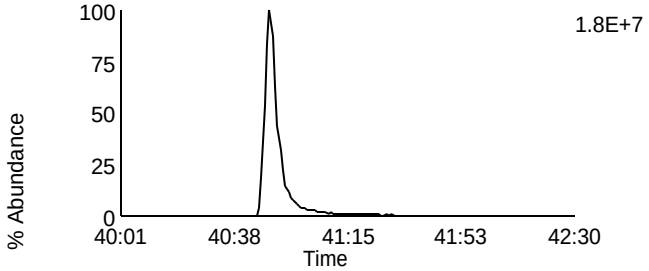
Data File: F131106A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL TC



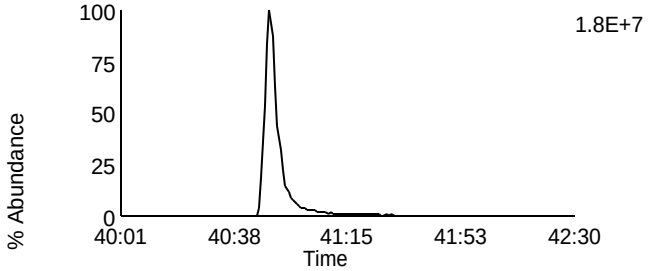
Data File: F131106A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - BAL TC



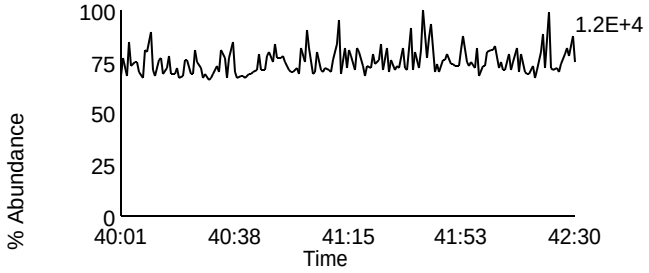
Data File: F131106A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL TC



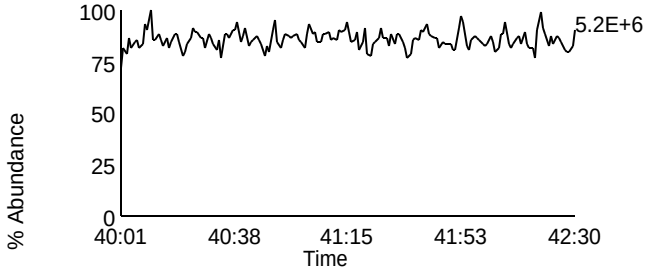
Data File: F131106A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - BAL TC



Data File: F131106A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - BAL TC

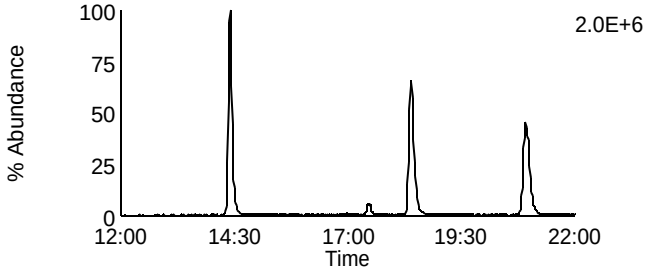


Homologue Group: Tetras

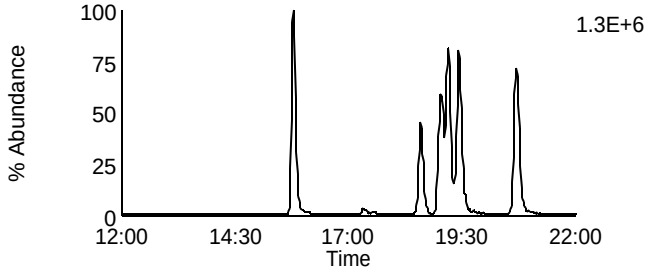
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

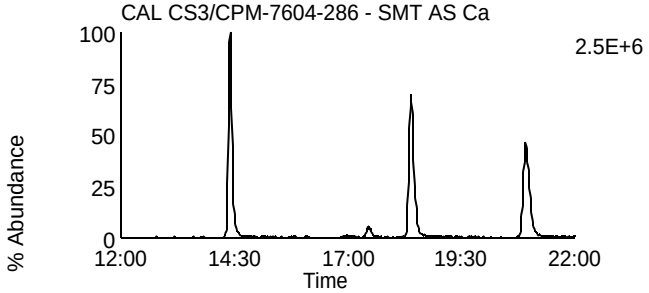
Data File: F131107A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT AS Ca



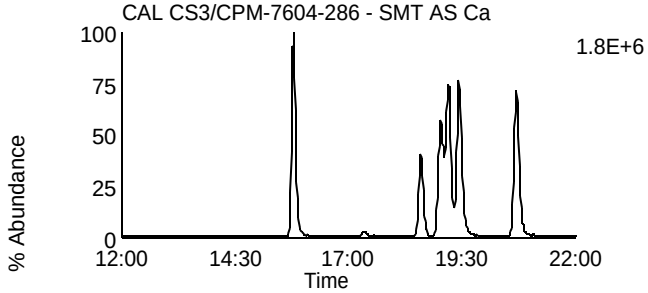
Data File: F131107A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT AS Ca



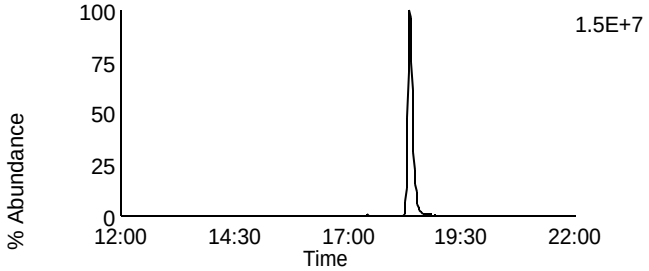
Data File: F131107A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT AS Ca



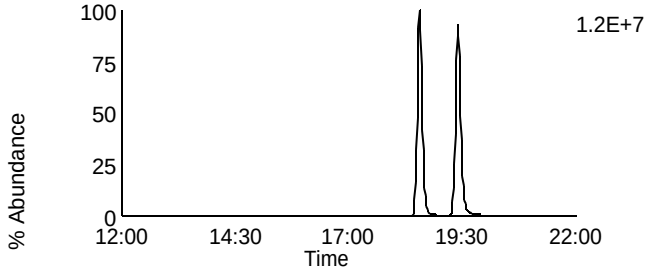
Data File: F131107A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT AS Ca



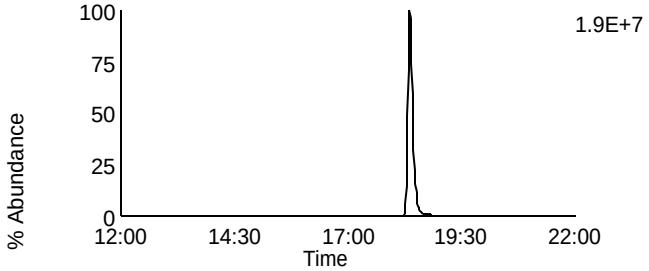
Data File: F131107A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT AS Ca



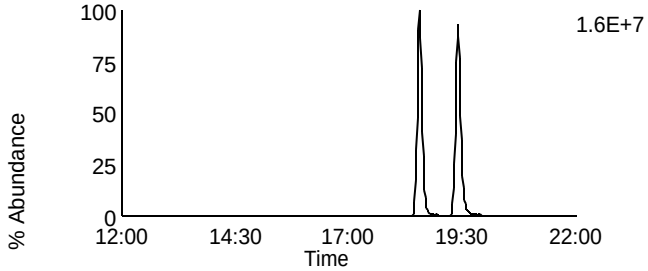
Data File: F131107A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT AS Ca



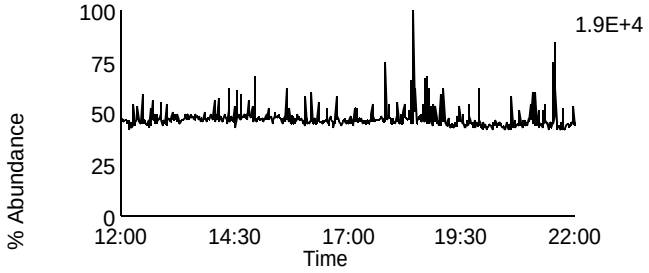
Data File: F131107A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT AS Ca



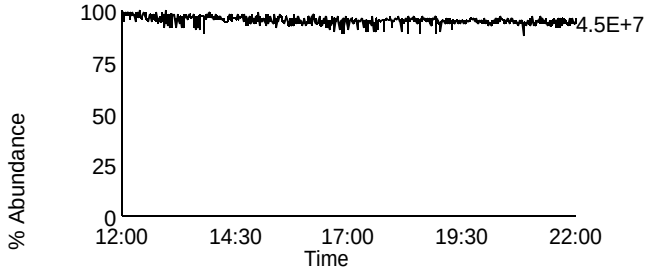
Data File: F131107A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

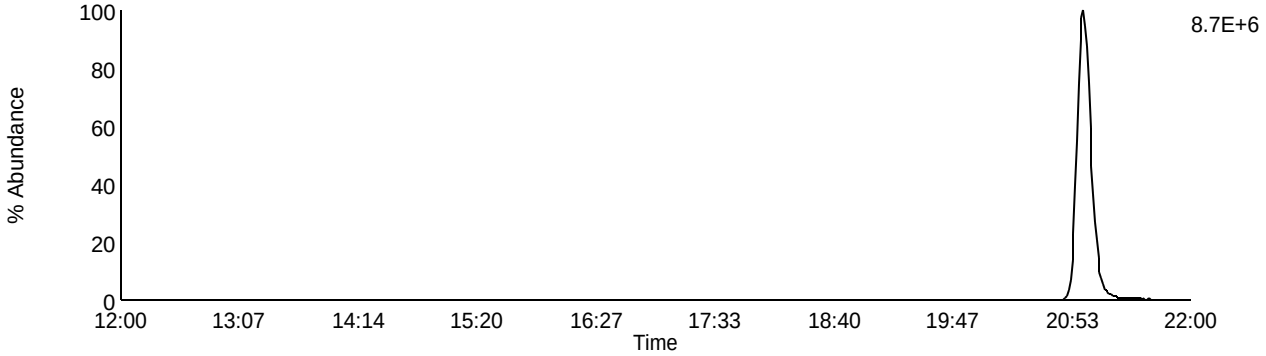


Homologue Group: Penta & Cleanup

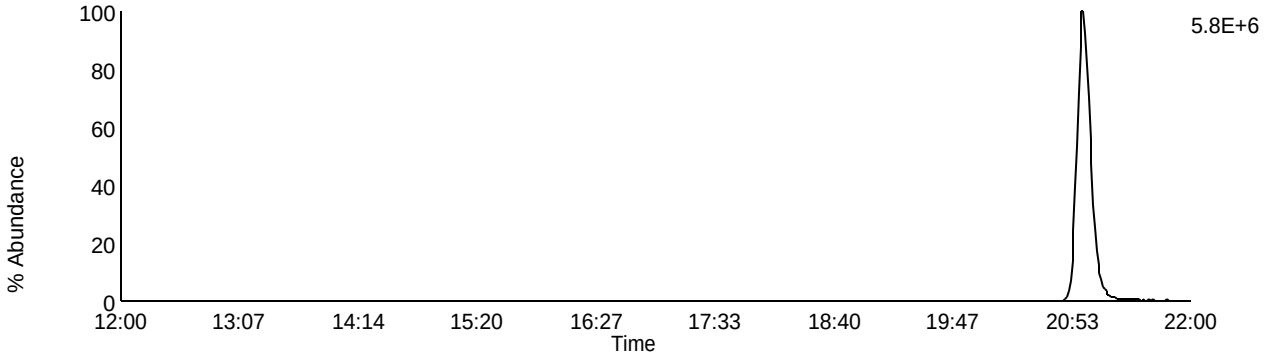
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

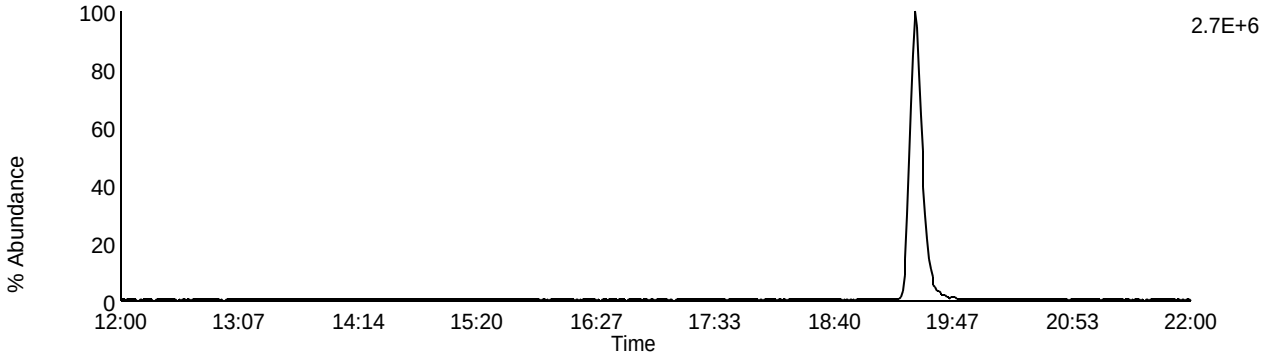
Data File: F131107A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT AS Ca



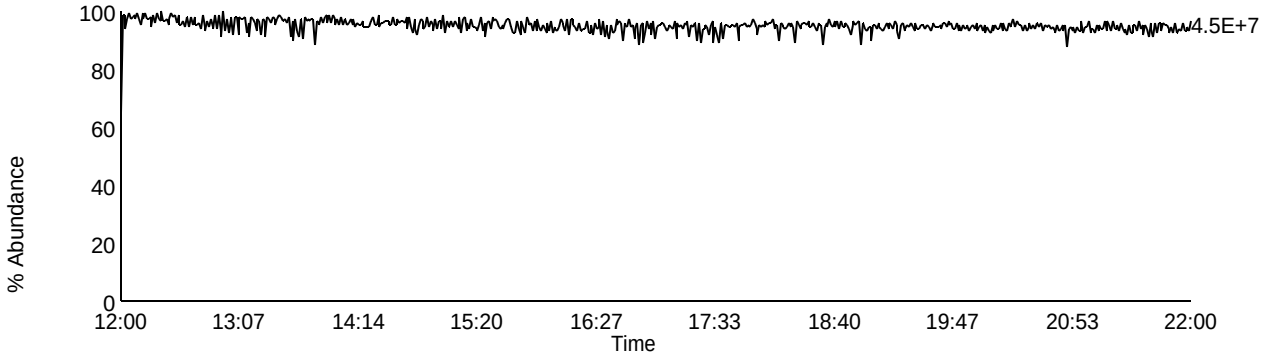
Data File: F131107A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

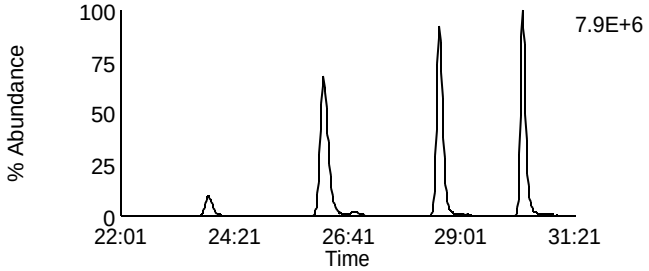


Homologue Group: Pentas

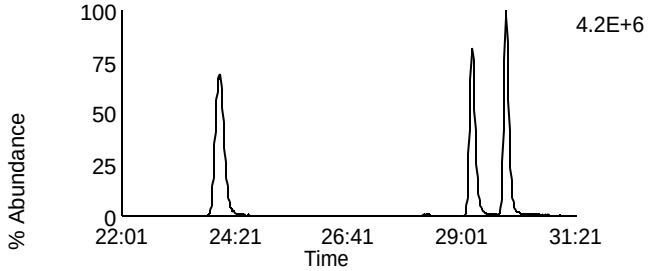
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

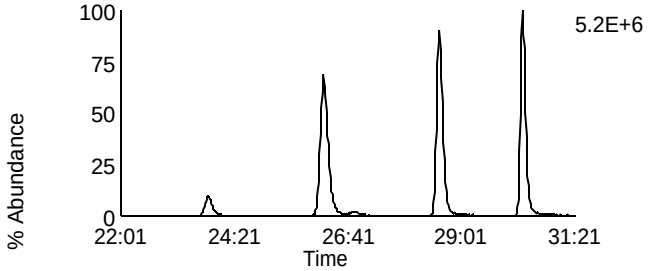
Data File: F131107A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT AS Ca



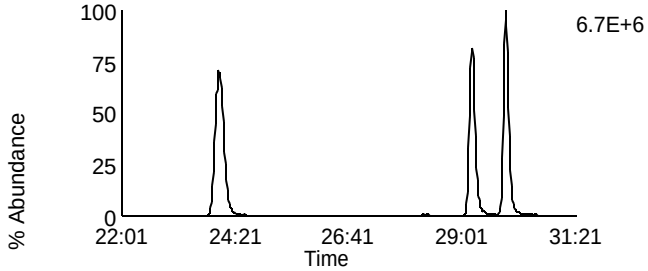
Data File: F131107A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT AS Ca



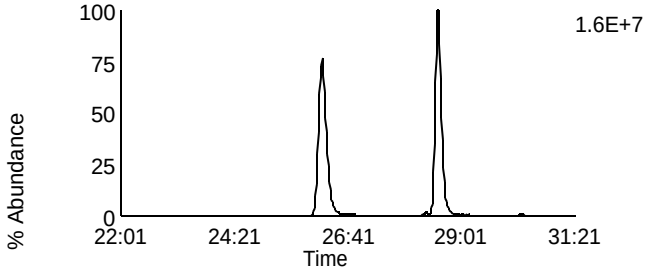
Data File: F131107A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT AS Ca



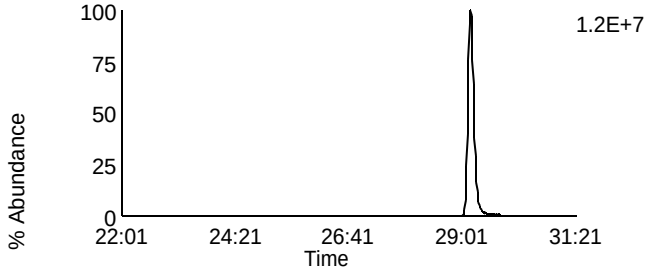
Data File: F131107A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT AS Ca



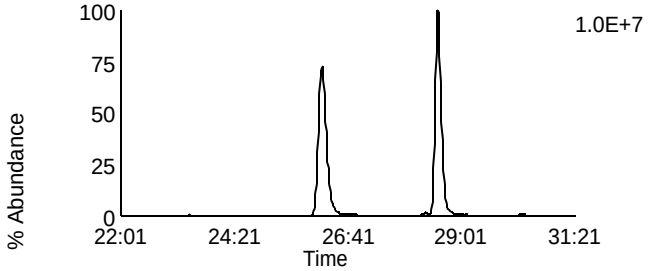
Data File: F131107A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT AS Ca



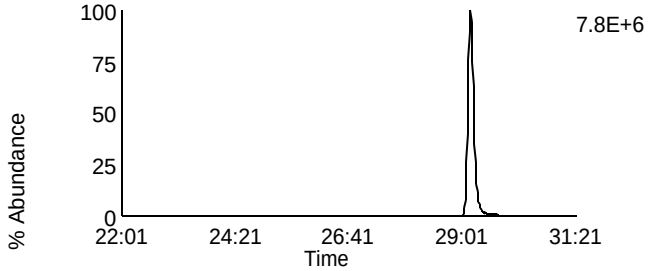
Data File: F131107A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT AS Ca



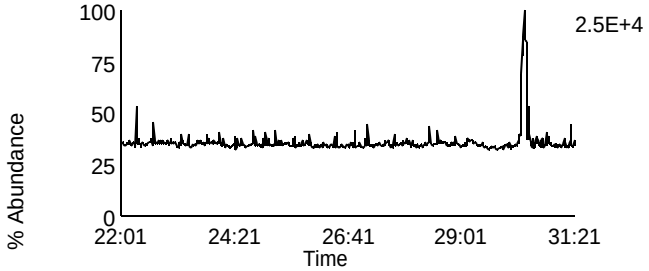
Data File: F131107A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT AS Ca



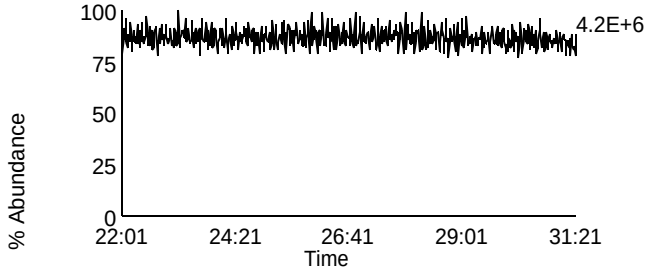
Data File: F131107A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT AS Ca

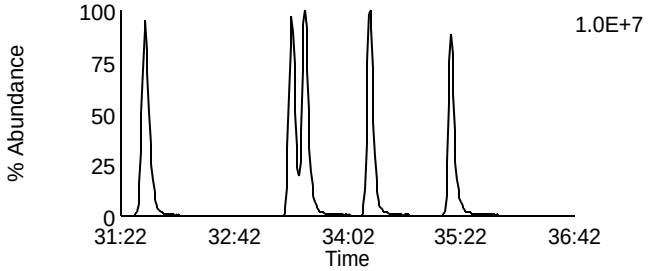


Homologue Group: Hexas

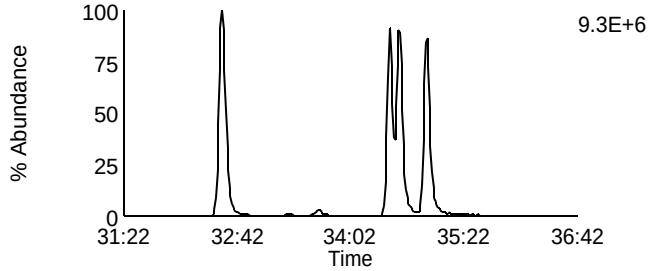
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

Data File: F131107A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT AS Ca



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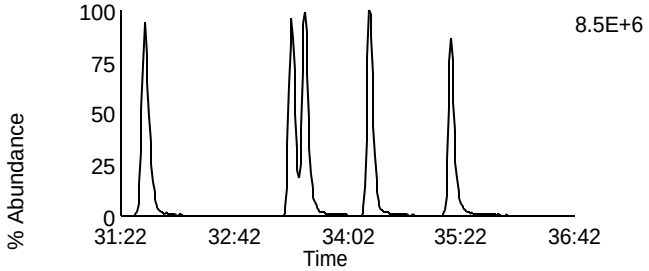
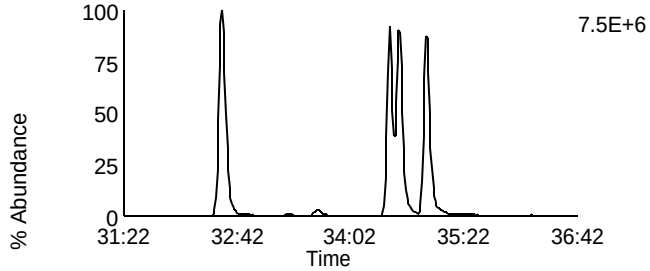
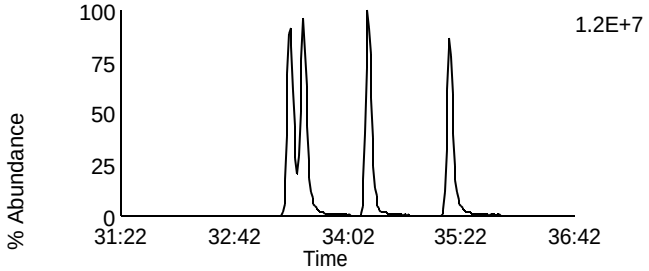
CAL CS3/CPM-7604-286 - SMT AS Ca



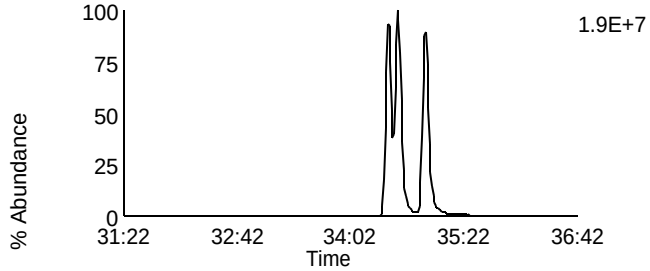
Data File: F131107A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT AS Ca



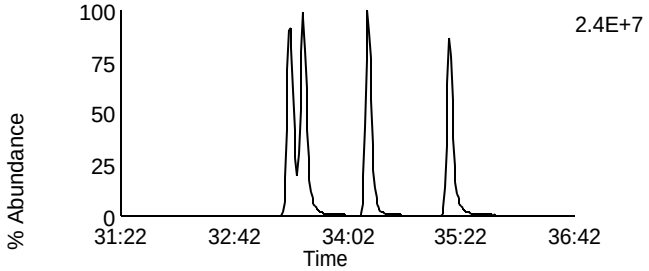
Data File: F131107A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT AS Ca



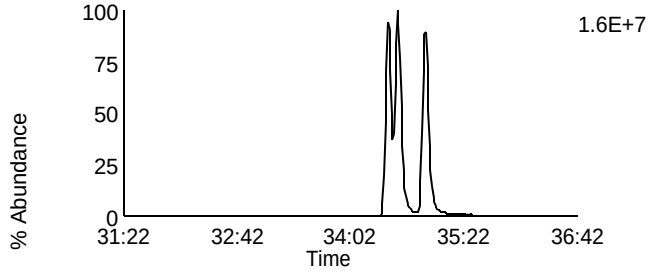
Data File: F131107A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT AS Ca



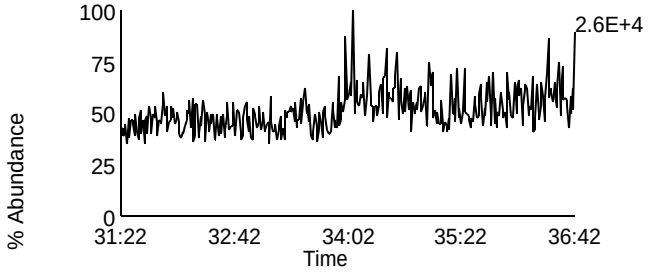
Data File: F131107A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT AS Ca



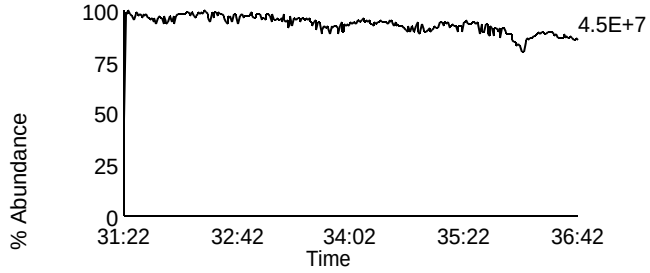
Data File: F131107A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT AS Ca

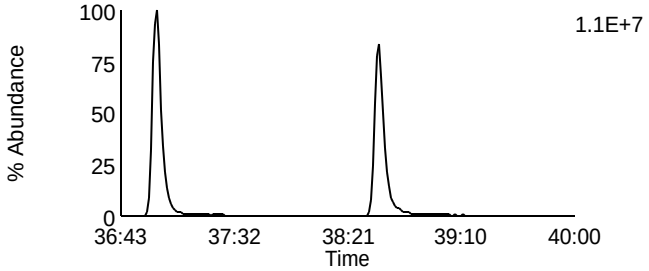


Homologue Group: Heptas

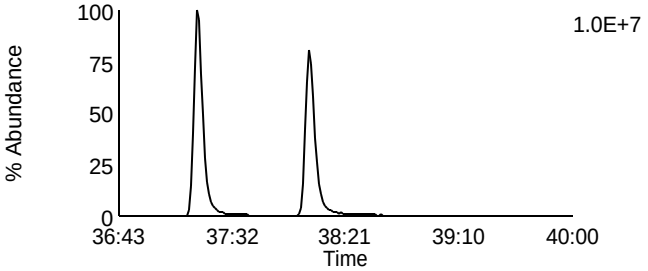
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

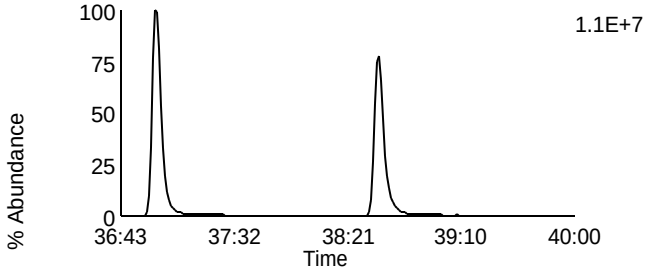
Data File: F131107A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT AS Ca



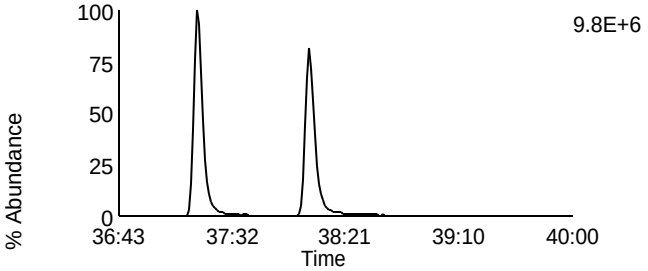
Data File: F131107A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT AS Ca



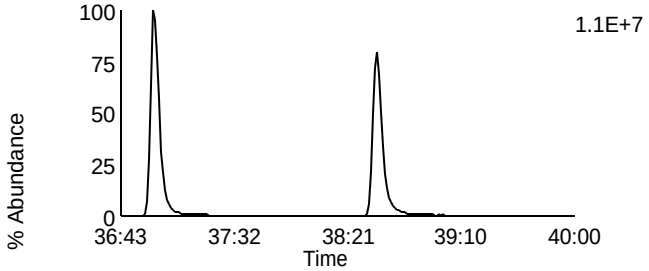
Data File: F131107A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT AS Ca



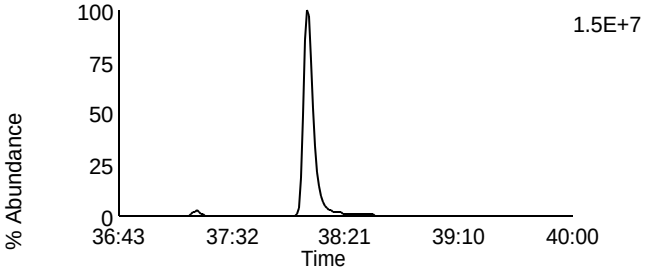
Data File: F131107A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT AS Ca



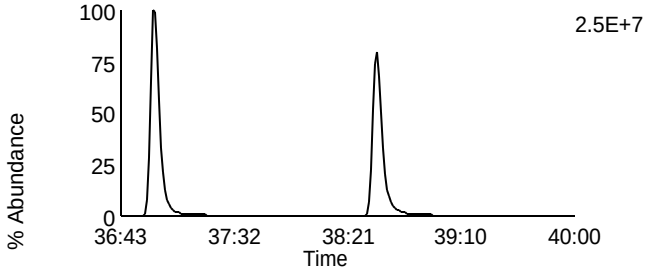
Data File: F131107A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT AS Ca



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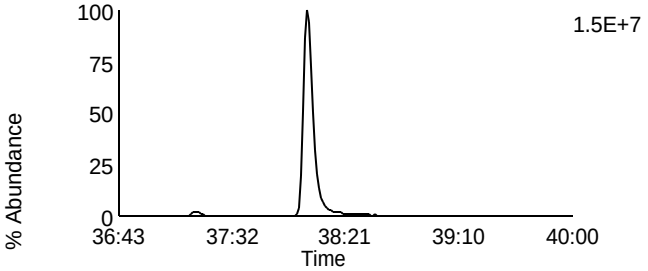
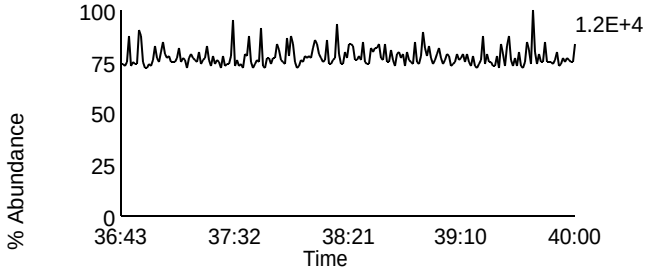
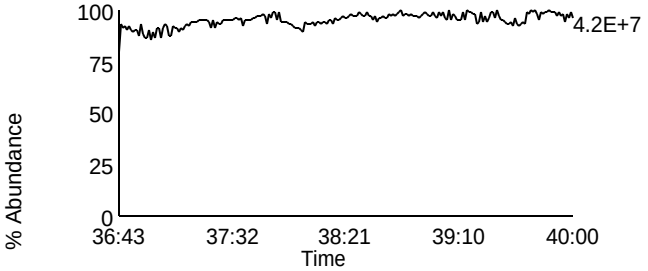
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT AS Ca

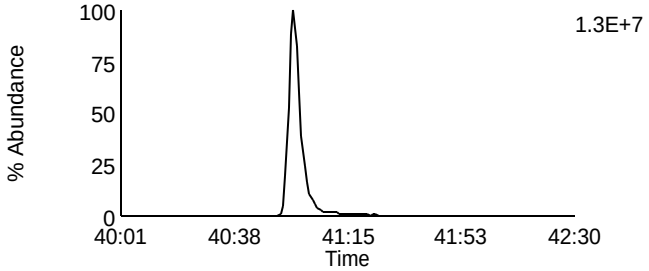


Homologue Group: Octas

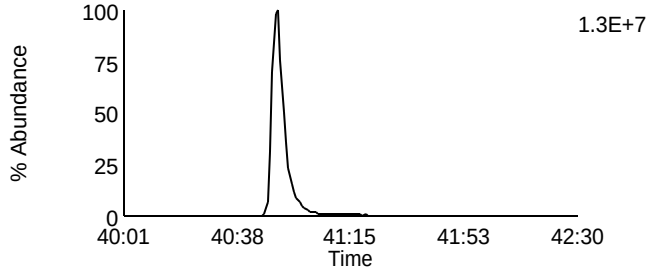
Data File Name: F131107A_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT AS Ca

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

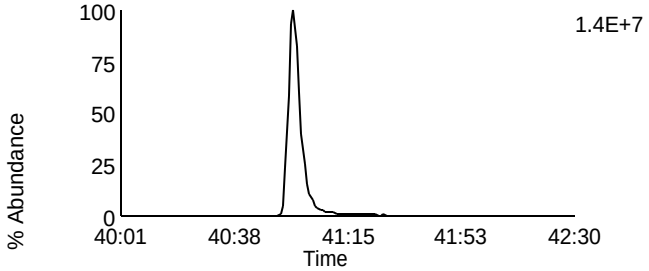
Data File: F131107A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT AS Ca



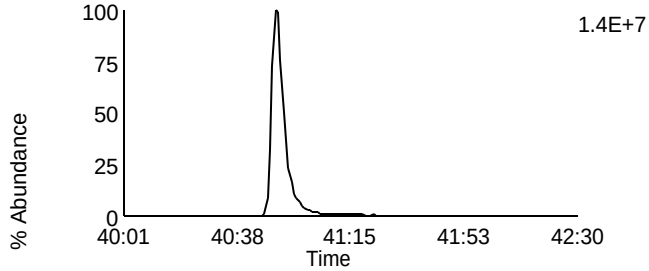
Data File: F131107A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT AS Ca



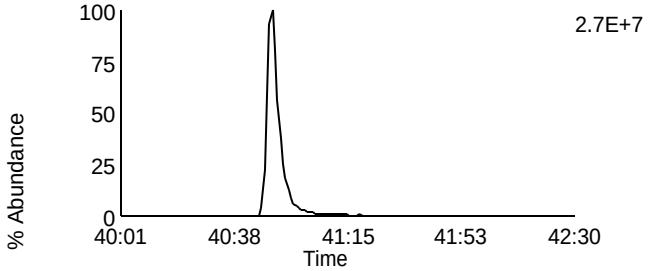
Data File: F131107A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT AS Ca



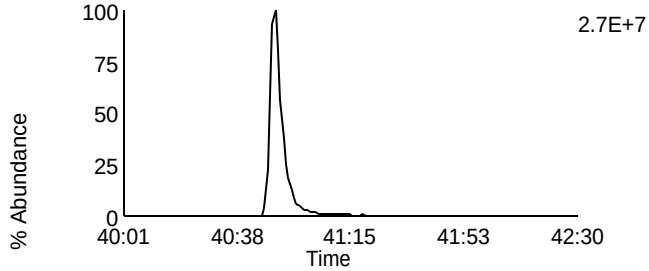
Data File: F131107A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT AS Ca



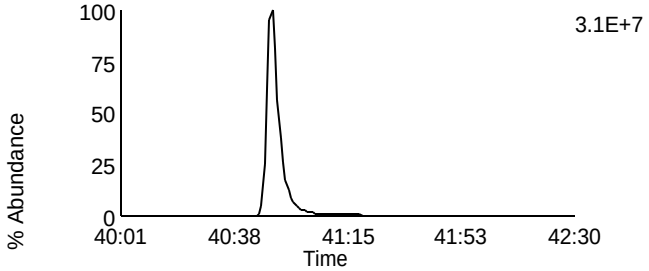
Data File: F131107A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT AS Ca



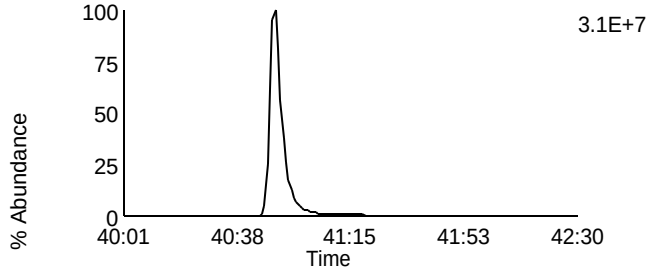
Data File: F131107A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT AS Ca



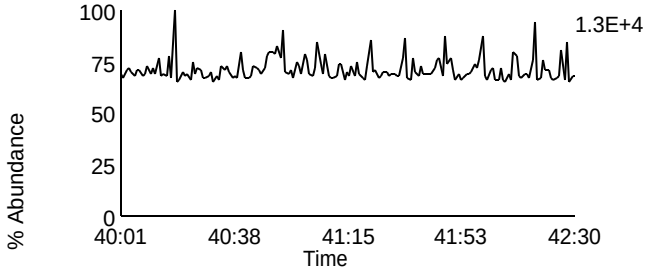
Data File: F131107A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT AS Ca



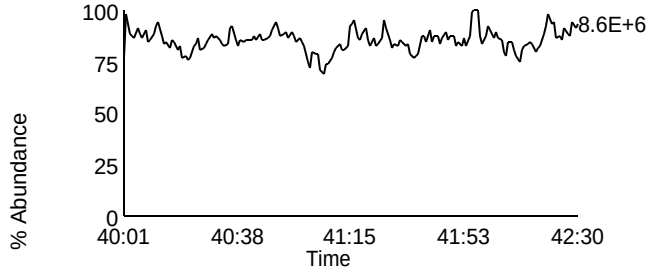
Data File: F131107A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT AS Ca



Data File: F131107A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT AS Ca

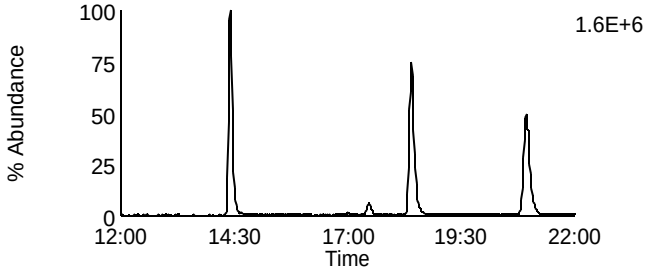


Homologue Group: Tetras

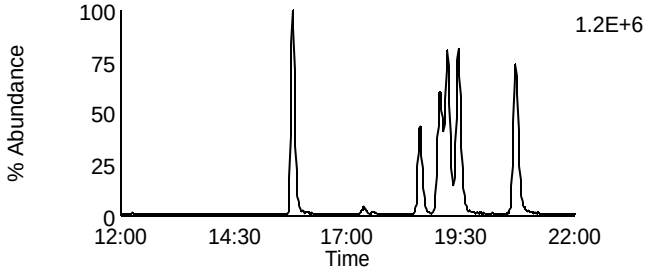
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

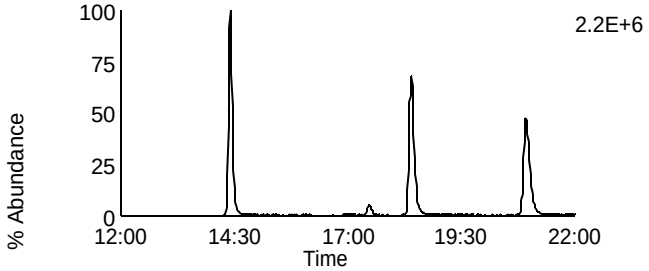
Data File: F131107B_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT



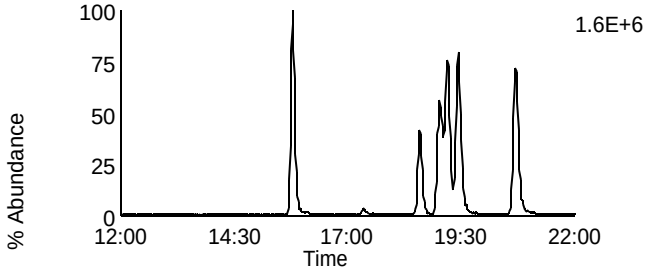
Data File: F131107B_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT



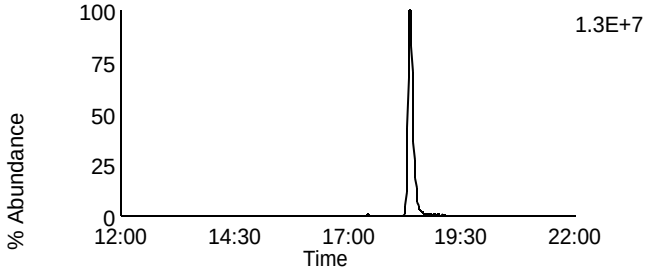
Data File: F131107B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT



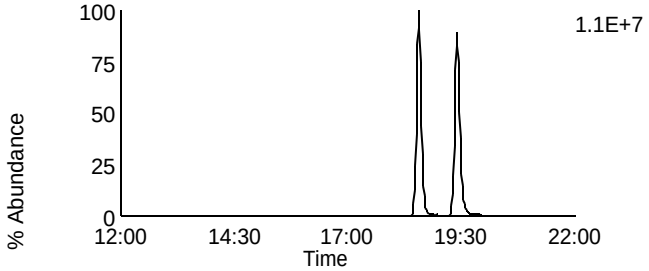
Data File: F131107B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT



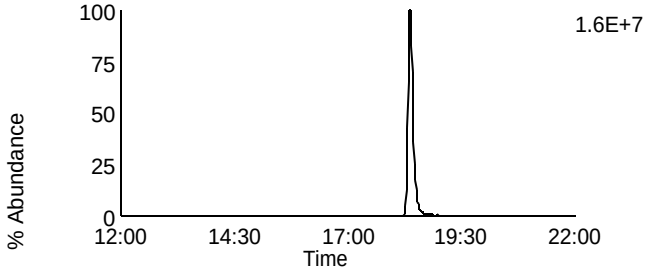
Data File: F131107B_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT



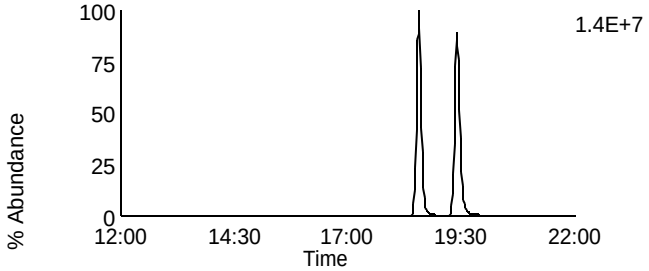
Data File: F131107B_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT



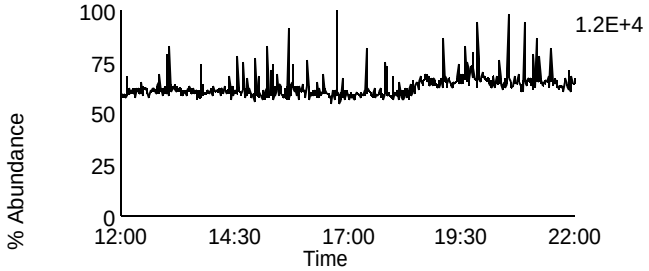
Data File: F131107B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT



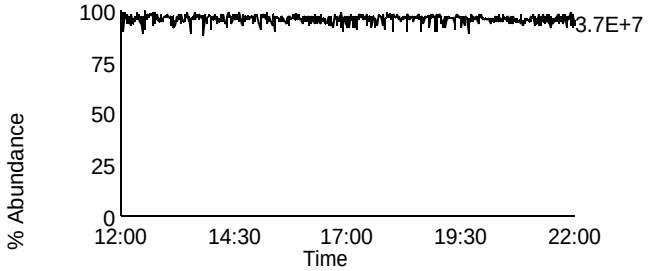
Data File: F131107B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

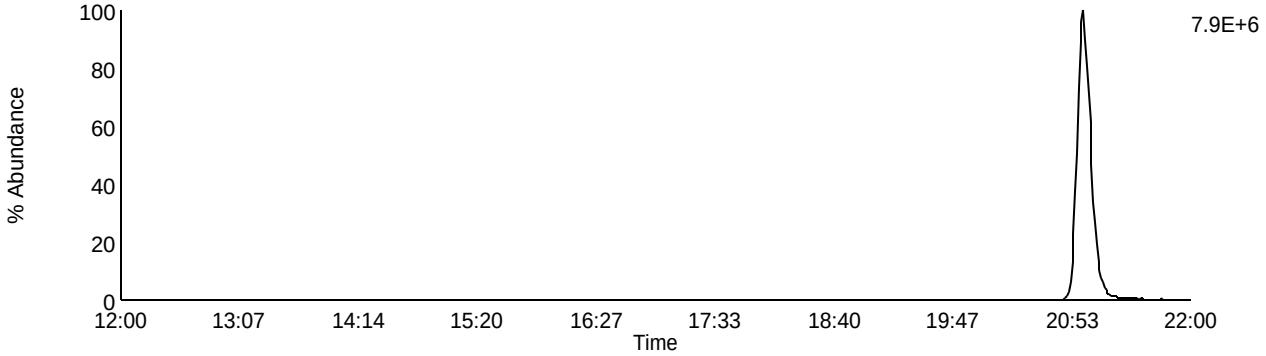


Homologue Group: Penta & Cleanup

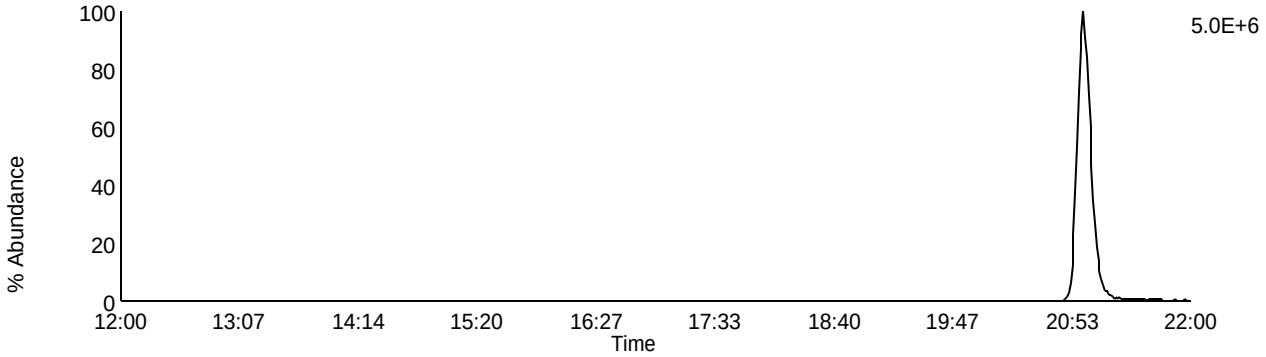
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

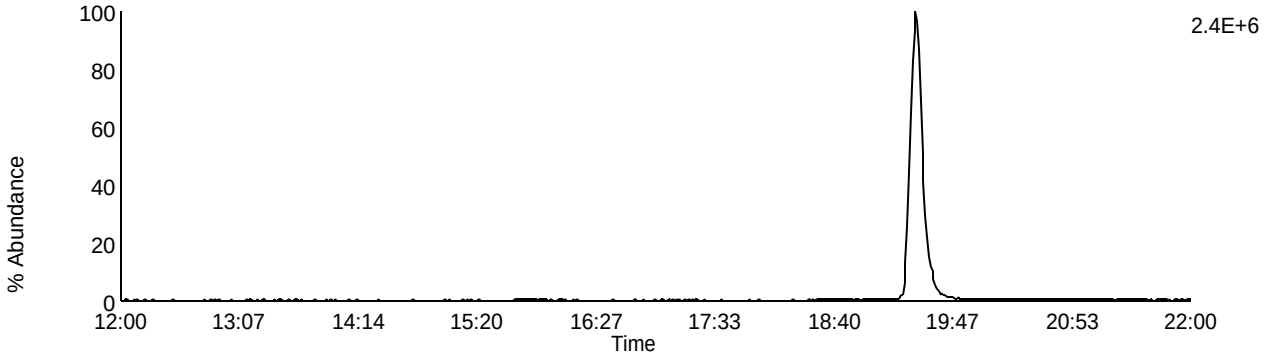
Data File: F131107B_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT



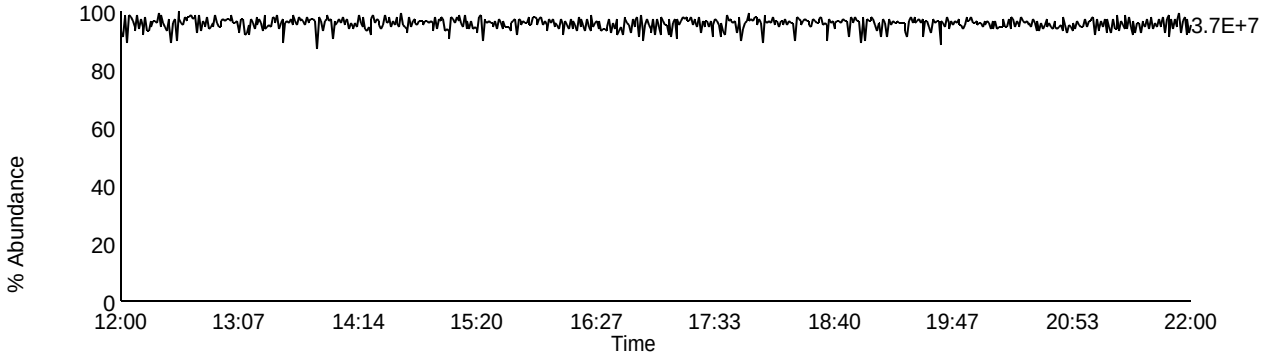
Data File: F131107B_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT

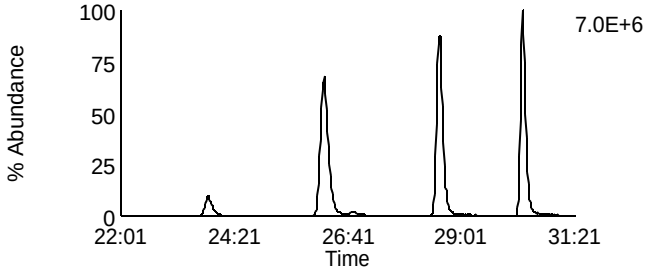


Homologue Group: Pentas

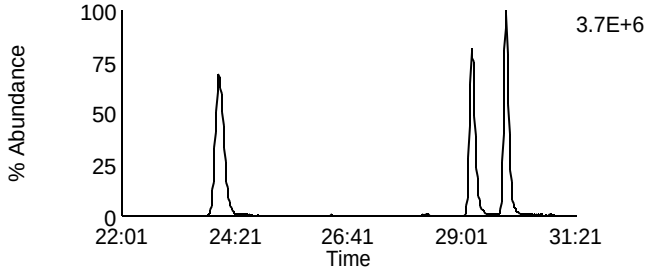
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

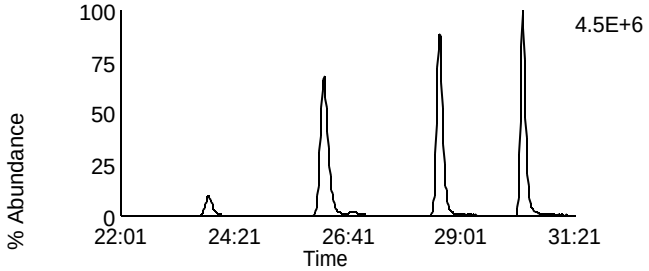
Data File: F131107B_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT



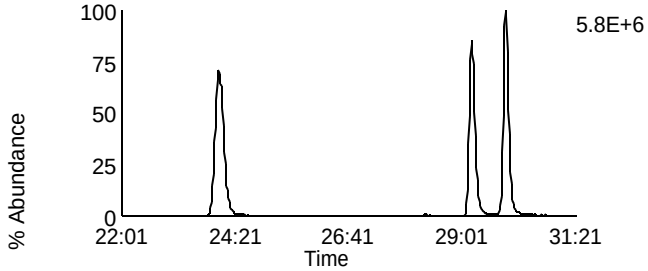
Data File: F131107B_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT



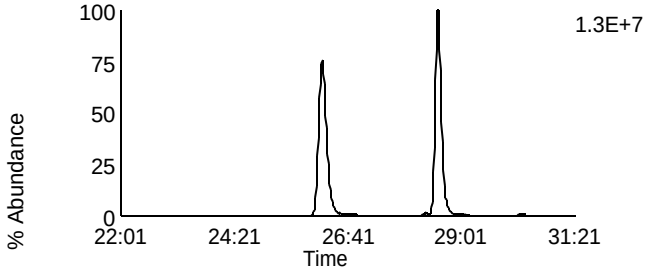
Data File: F131107B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT



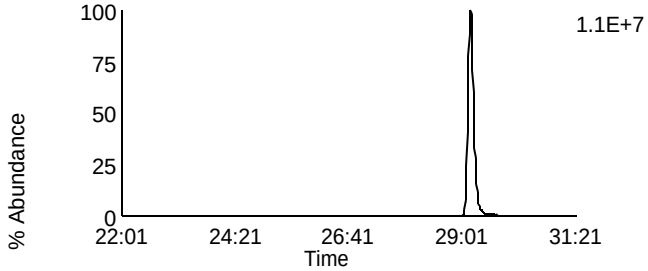
Data File: F131107B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT



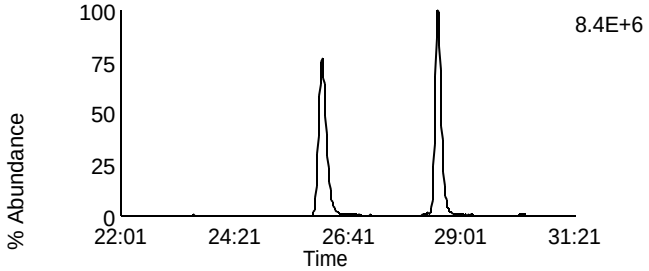
Data File: F131107B_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT



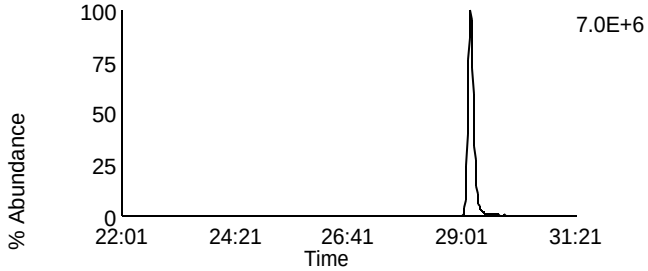
Data File: F131107B_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT



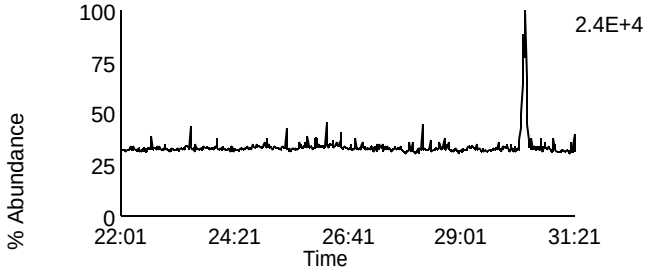
Data File: F131107B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT



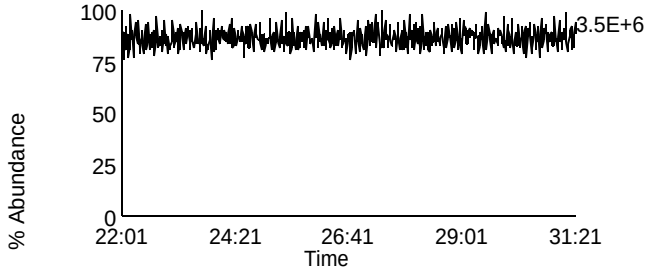
Data File: F131107B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT

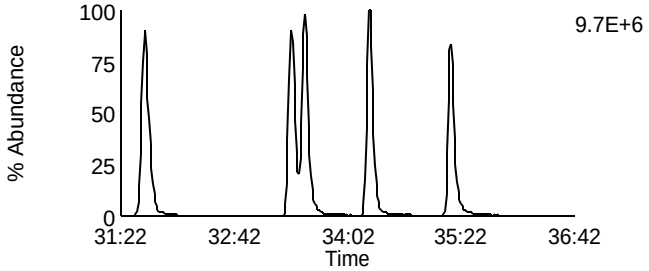


Homologue Group: Hexas

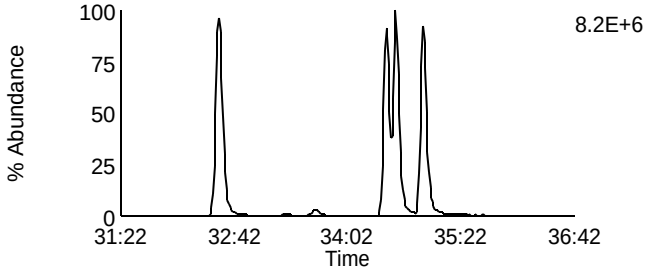
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

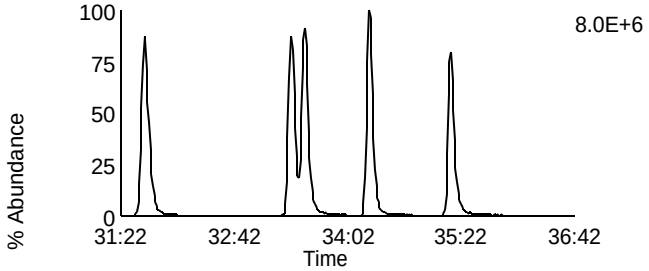
Data File: F131107B_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT



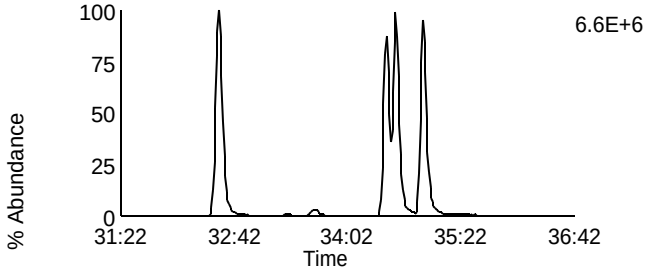
Data File: F131107B_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT



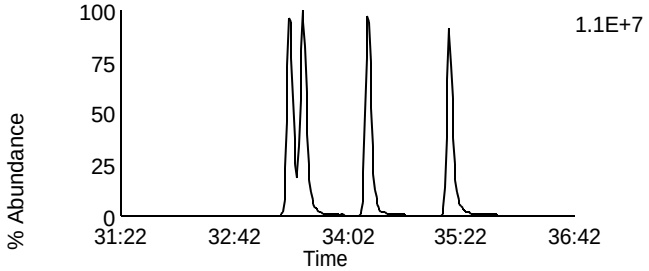
Data File: F131107B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT



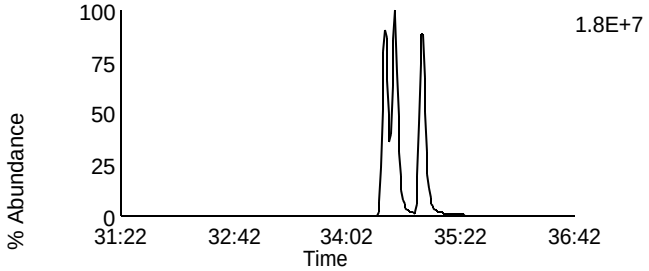
Data File: F131107B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT



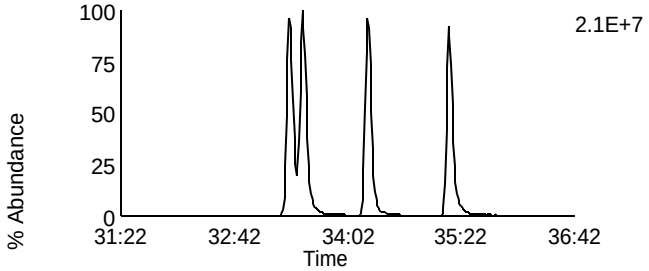
Data File: F131107B_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT



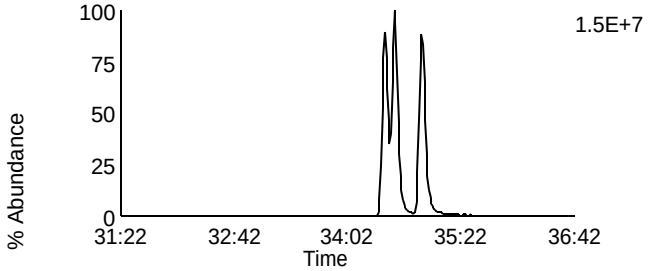
Data File: F131107B_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT



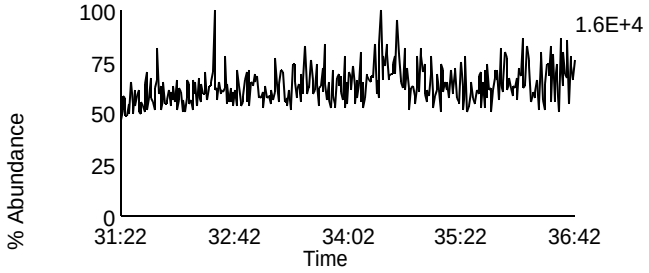
Data File: F131107B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT



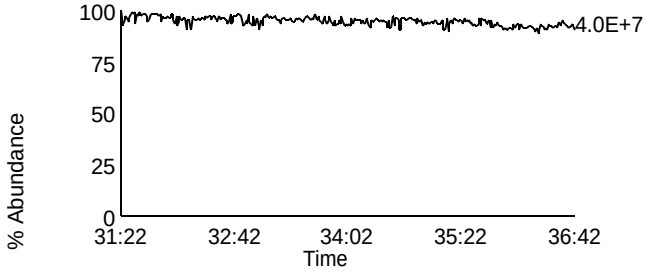
Data File: F131107B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT

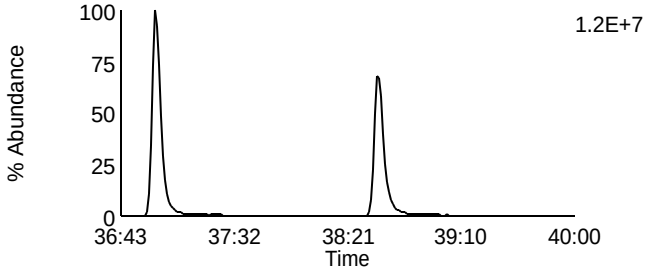


Homologue Group: Heptas

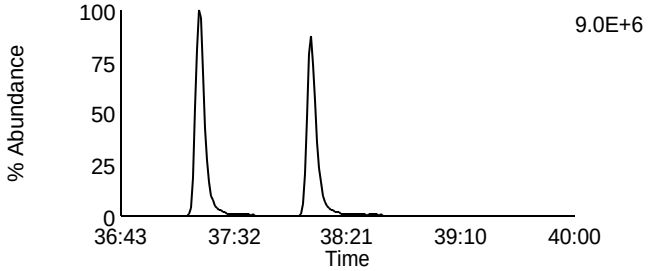
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

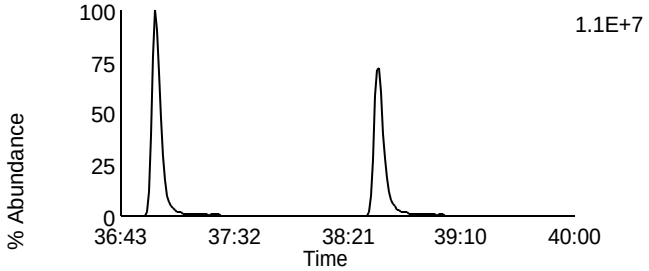
Data File: F131107B_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT



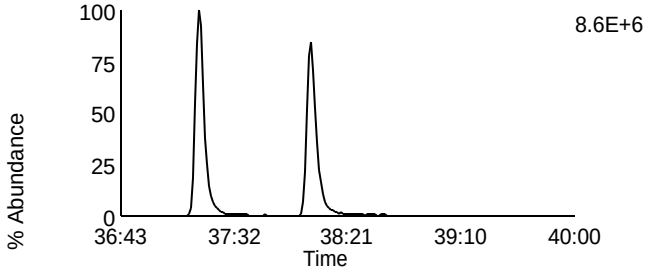
Data File: F131107B_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT



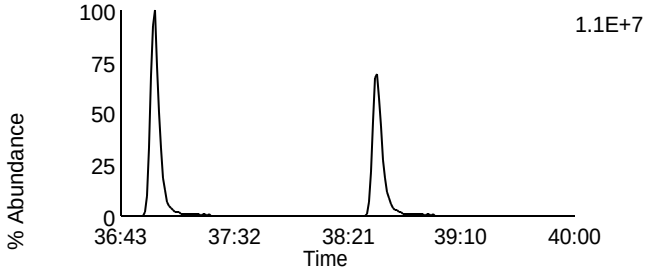
Data File: F131107B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT



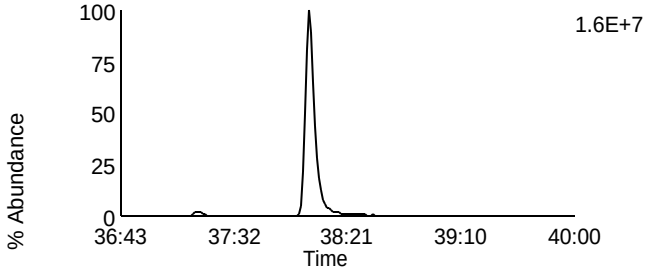
Data File: F131107B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT



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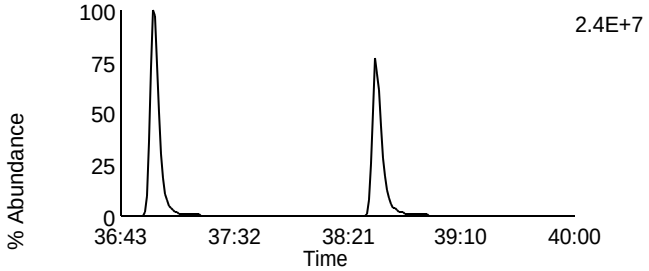
CAL CS3/CPM-7604-286 - SMT



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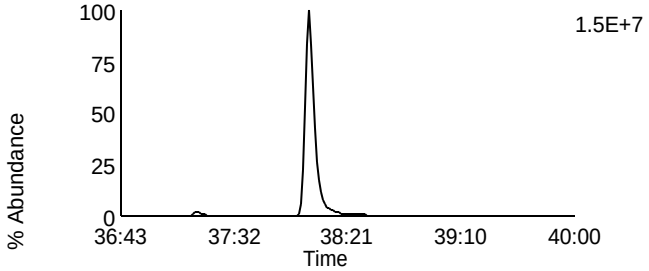
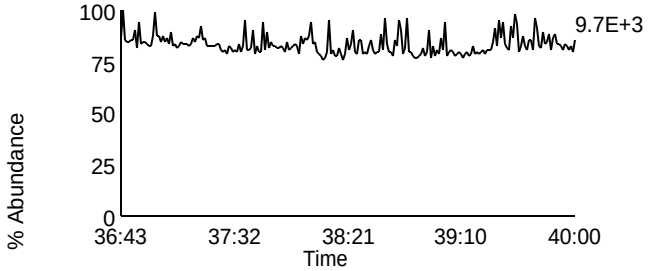
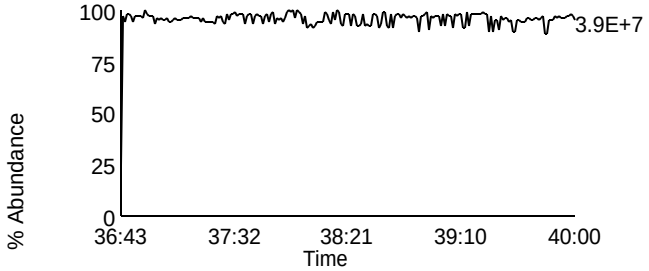
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT

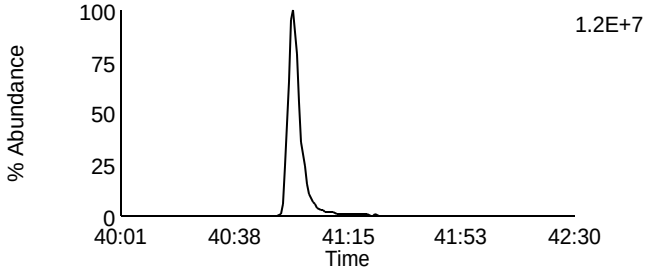


Homologue Group: Octas

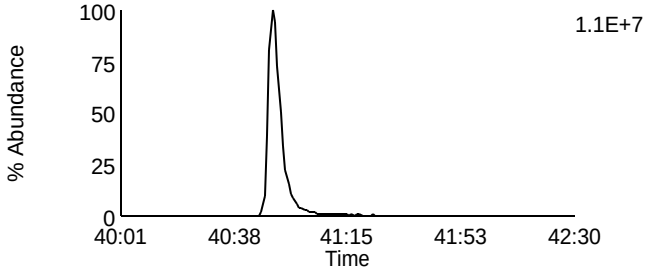
Data File Name: F131107B_01
Date Acquired: 11/7/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

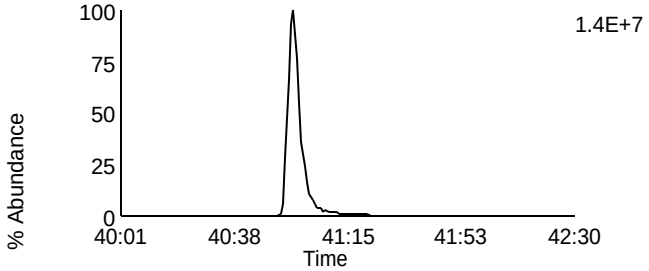
Data File: F131107B_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT



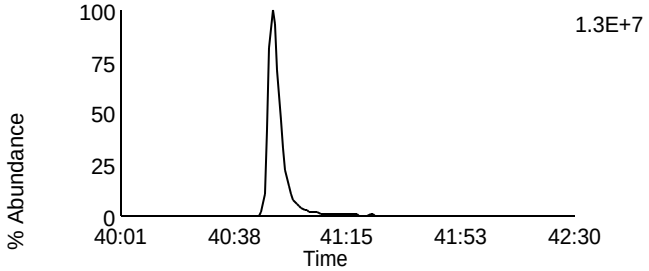
Data File: F131107B_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT



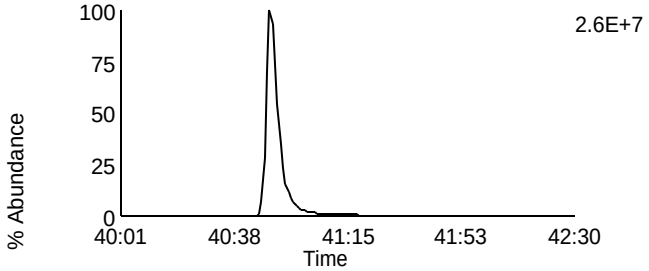
Data File: F131107B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT



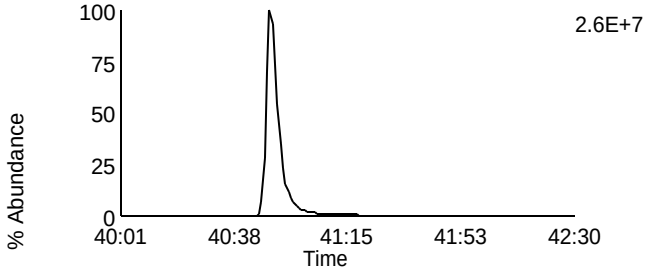
Data File: F131107B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT



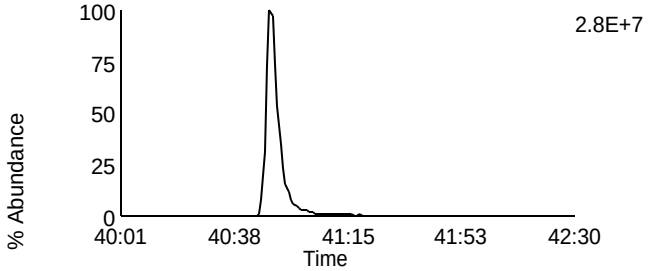
Data File: F131107B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



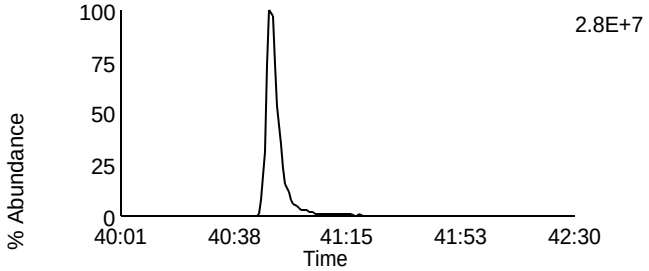
Data File: F131107B_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT



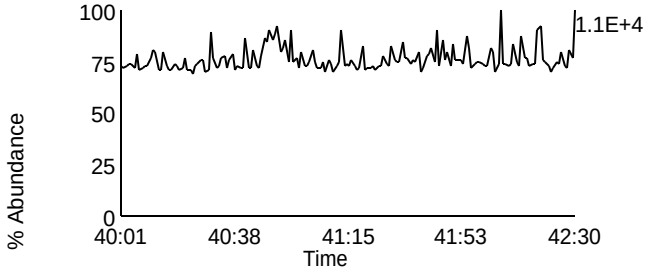
Data File: F131107B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



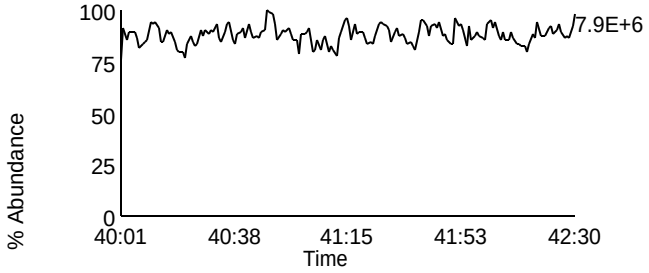
Data File: F131107B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT



Data File: F131107B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT

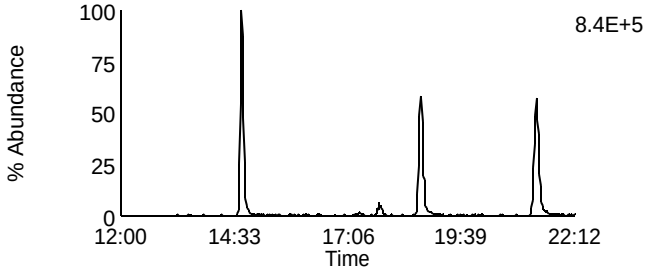


Homologue Group: Tetras

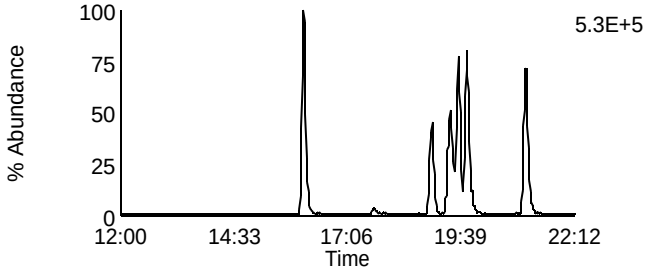
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

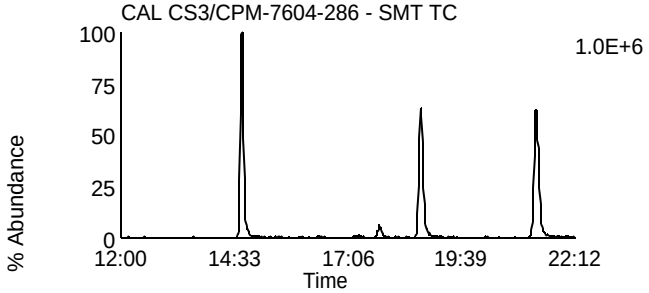
Data File: U131104A_01 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - SMT TC



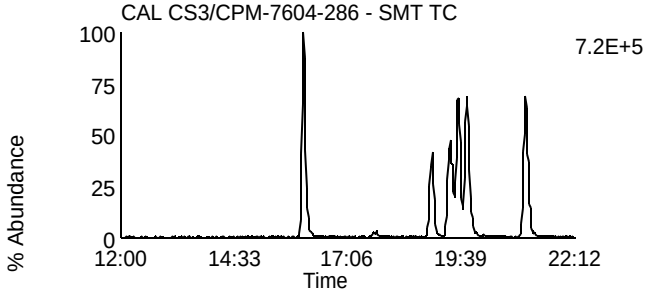
Data File: U131104A_01 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - SMT TC



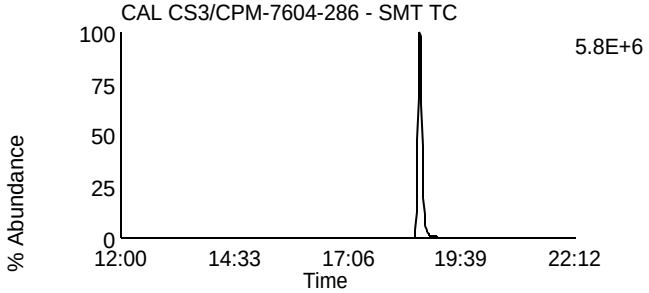
Data File: U131104A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - SMT TC



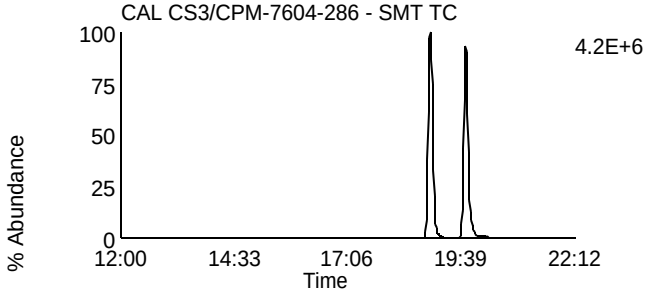
Data File: U131104A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - SMT TC



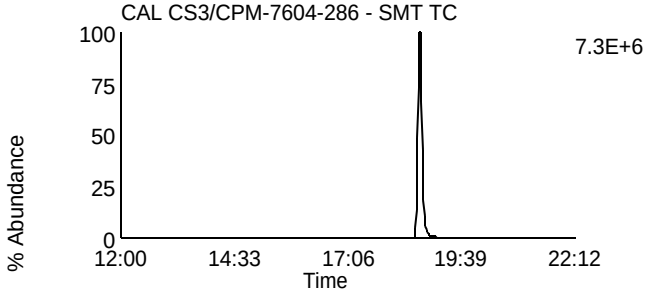
Data File: U131104A_01 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - SMT TC



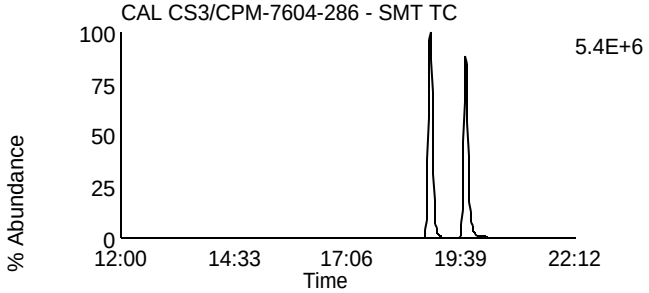
Data File: U131104A_01 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - SMT TC



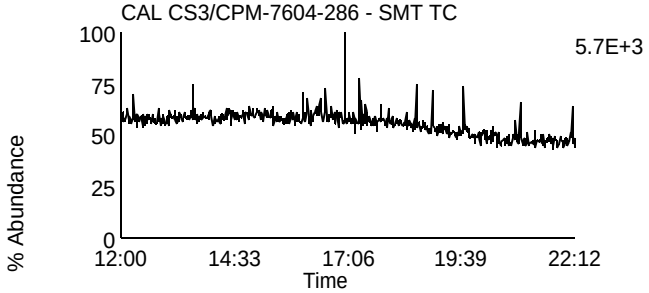
Data File: U131104A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - SMT TC



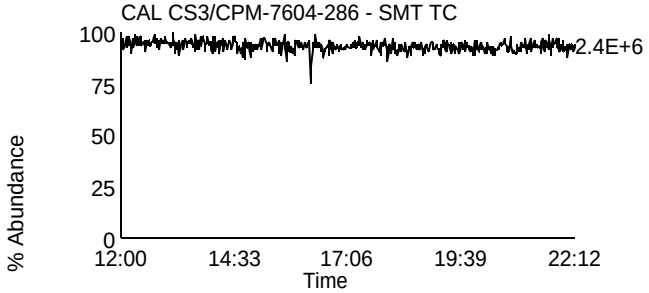
Data File: U131104A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT TC

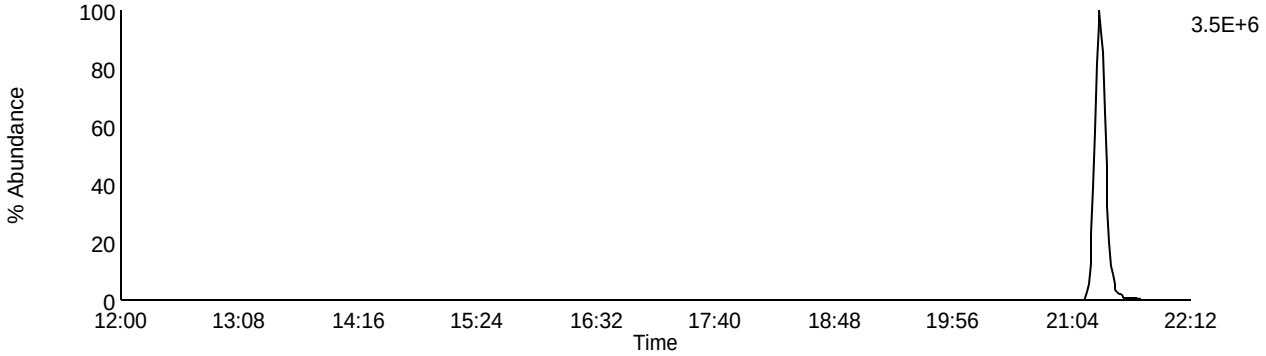


Homologue Group: Penta & Cleanup

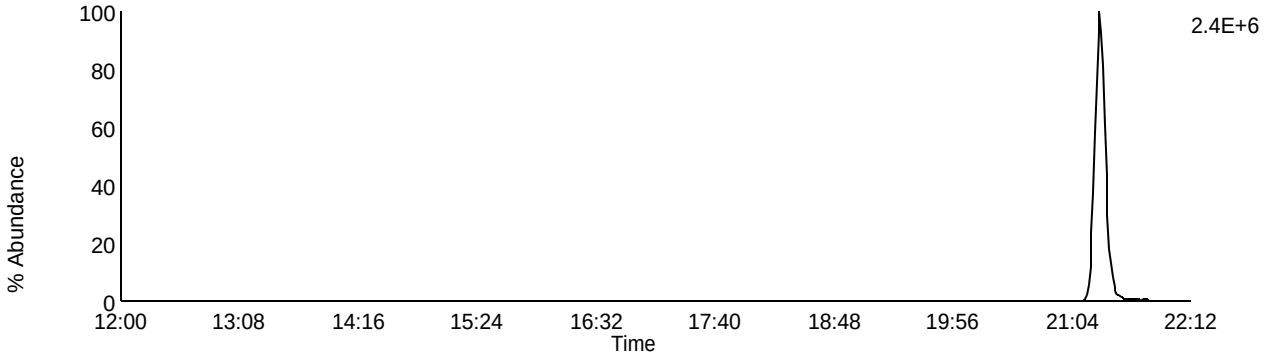
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

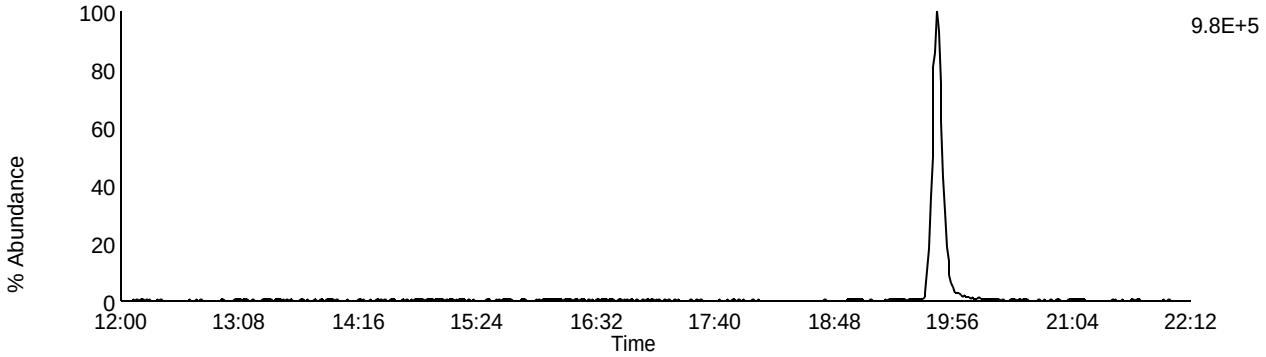
Data File: U131104A_01 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - SMT TC



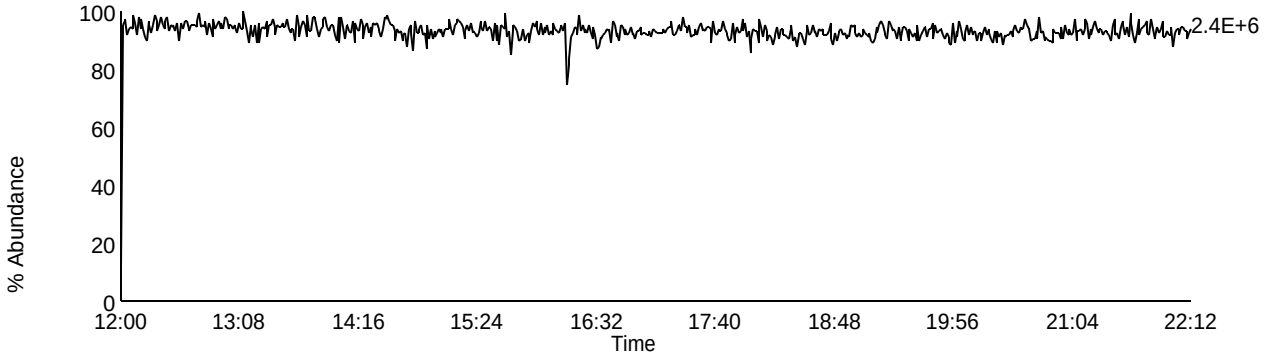
Data File: U131104A_01 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - SMT TC

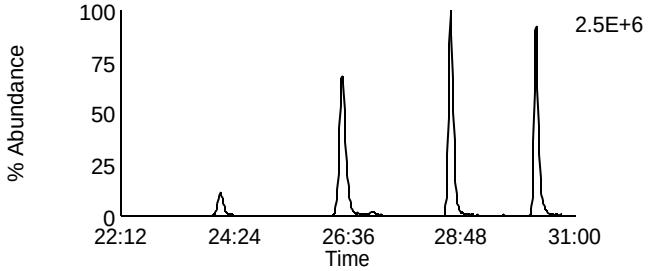


Homologue Group: Pentas

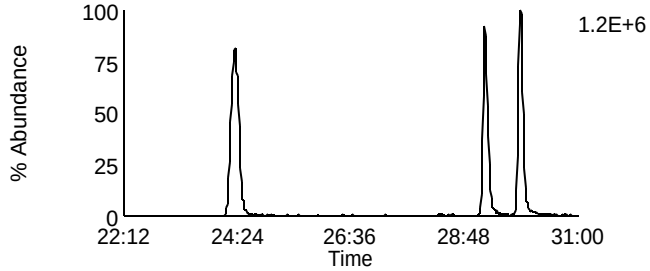
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

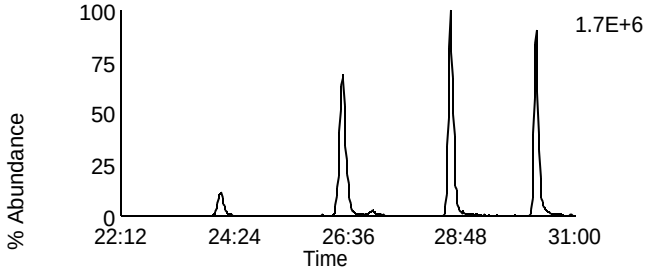
Data File: U131104A_01 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - SMT TC



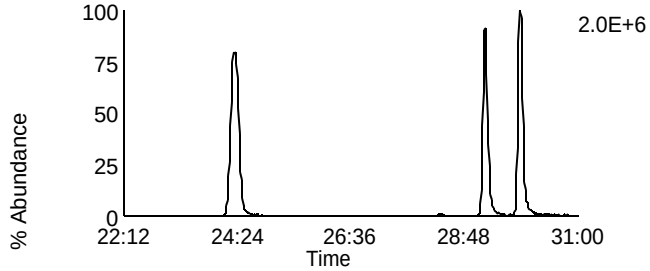
Data File: U131104A_01 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - SMT TC



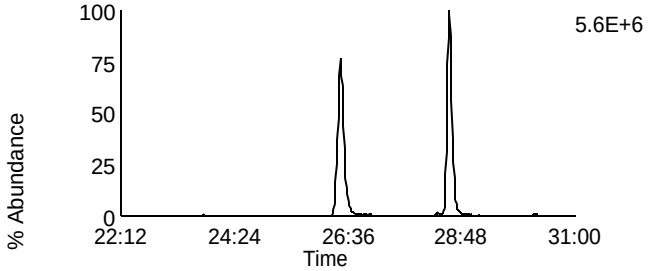
Data File: U131104A_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - SMT TC



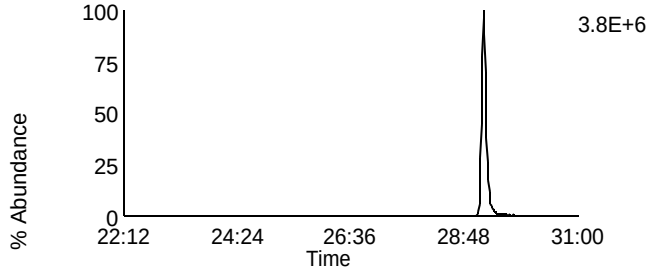
Data File: U131104A_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - SMT TC



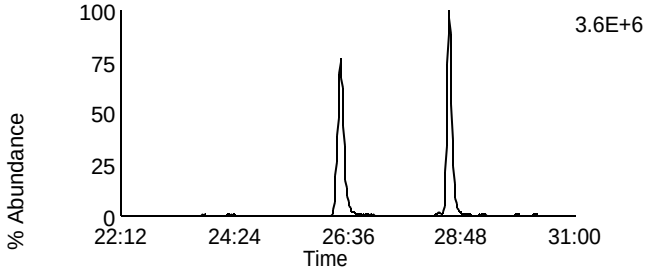
Data File: U131104A_01 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - SMT TC



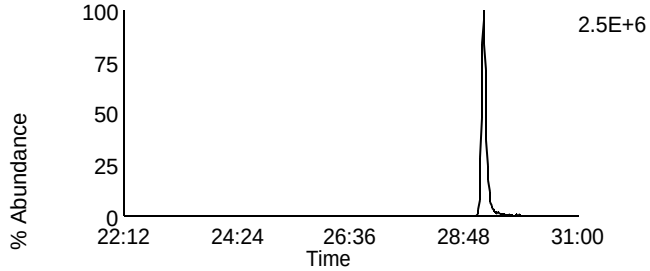
Data File: U131104A_01 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - SMT TC



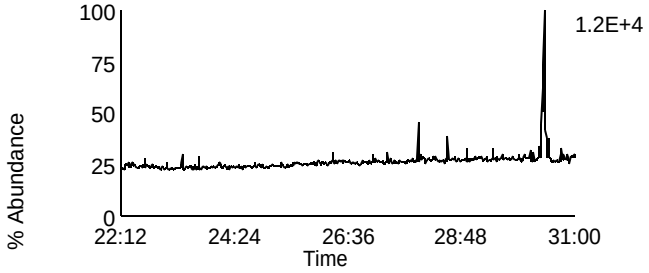
Data File: U131104A_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - SMT TC



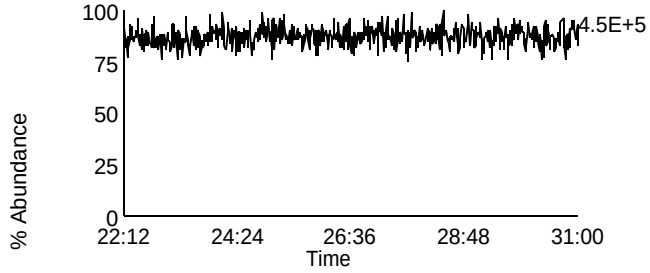
Data File: U131104A_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - SMT TC

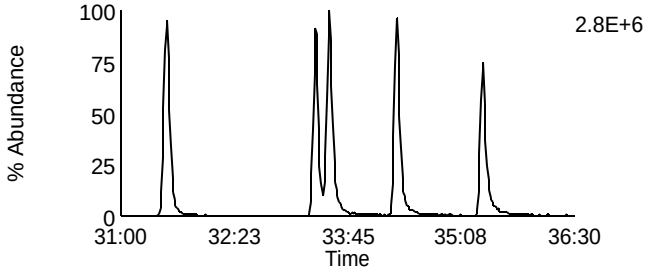


Homologue Group: Hexas

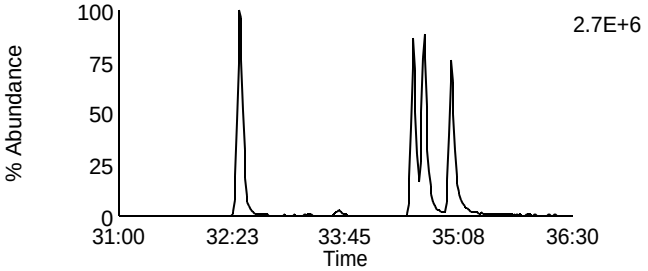
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

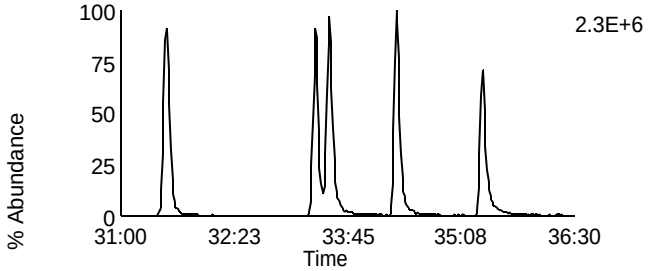
Data File: U131104A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - SMT TC



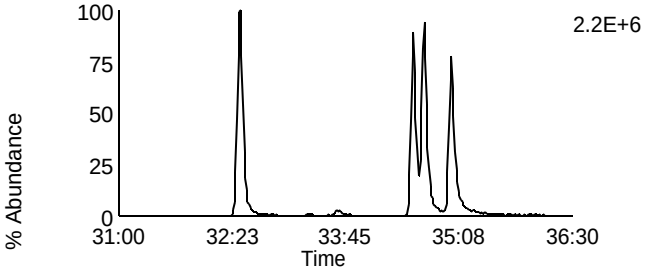
Data File: U131104A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - SMT TC



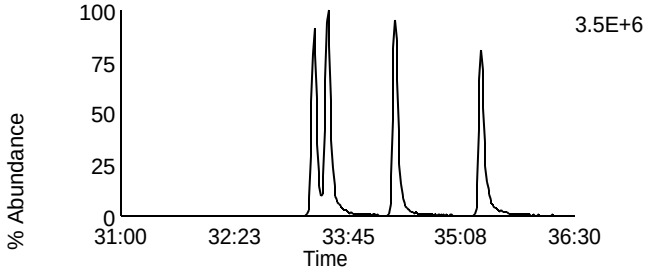
Data File: U131104A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - SMT TC



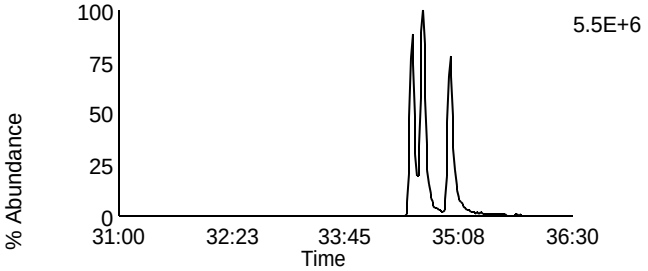
Data File: U131104A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - SMT TC



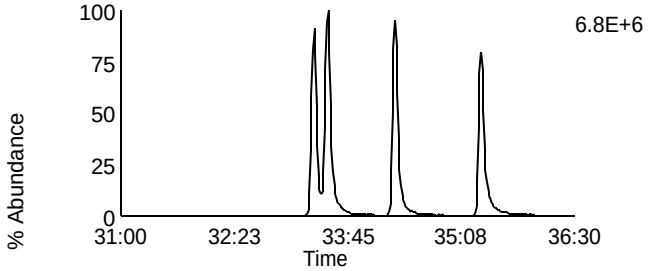
Data File: U131104A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - SMT TC



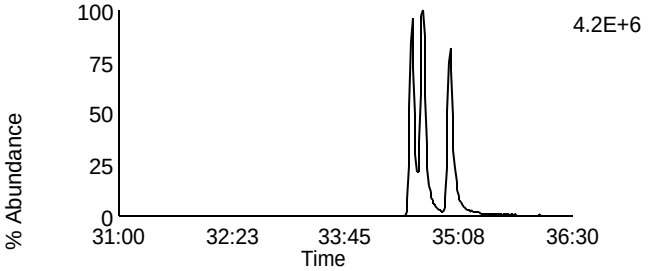
Data File: U131104A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - SMT TC



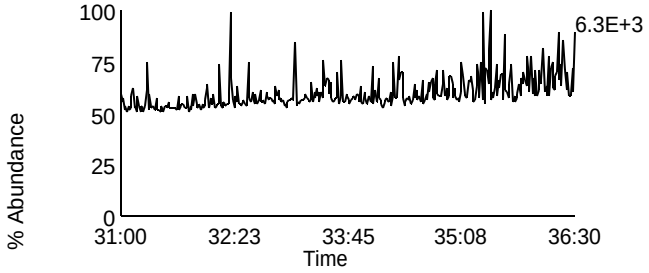
Data File: U131104A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - SMT TC



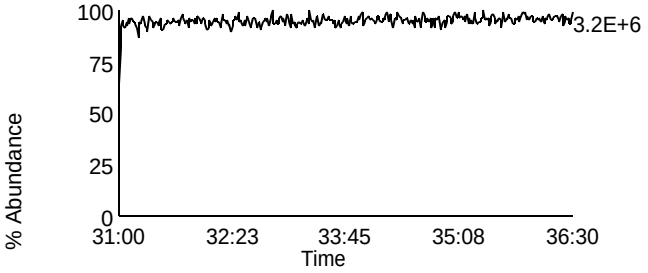
Data File: U131104A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - SMT TC

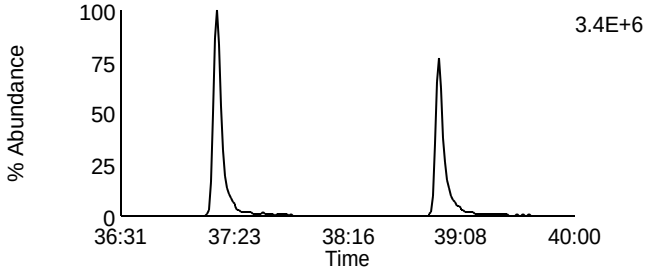


Homologue Group: Heptas

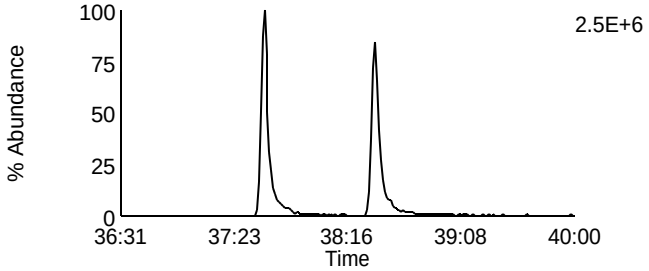
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

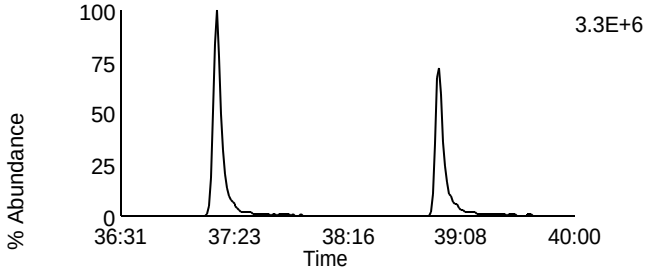
Data File: U131104A_01 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - SMT TC



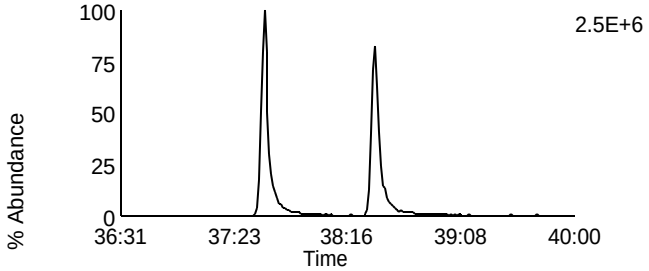
Data File: U131104A_01 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - SMT TC



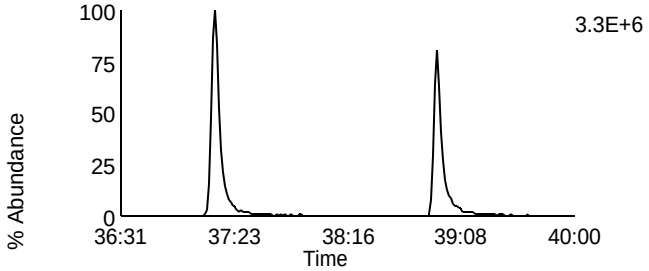
Data File: U131104A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - SMT TC



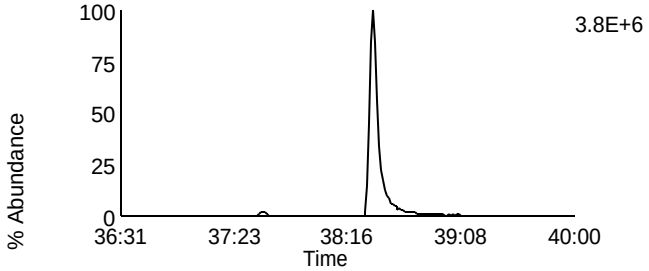
Data File: U131104A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - SMT TC



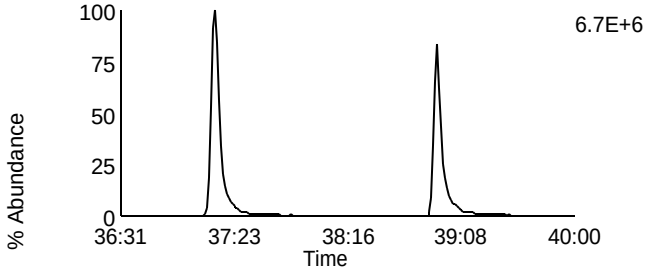
Data File: U131104A_01 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - SMT TC



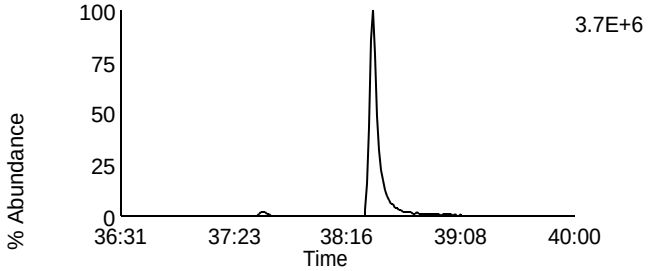
Data File: U131104A_01 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - SMT TC



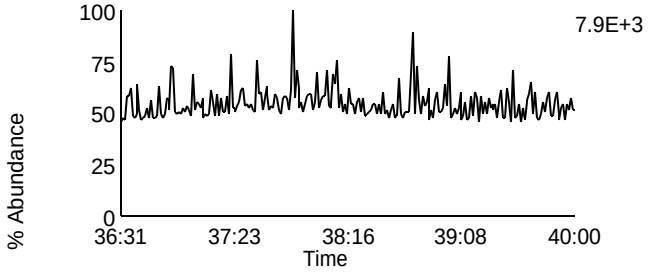
Data File: U131104A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - SMT TC



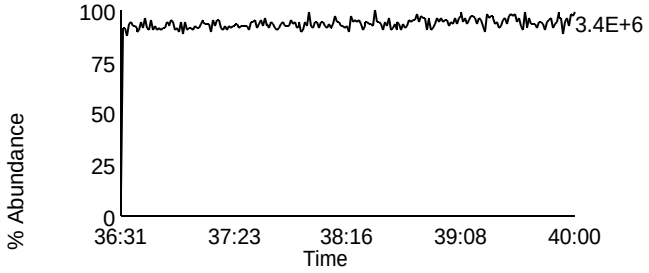
Data File: U131104A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - SMT TC

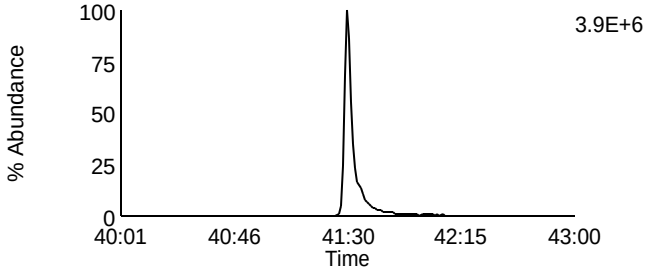


Homologue Group: Octas

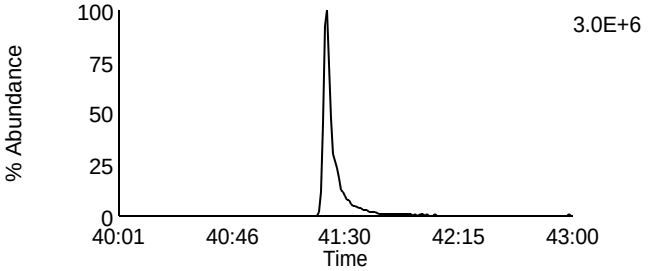
Data File Name: U131104A_01
Date Acquired: 11/4/2013
Sample Description: CAL CS3/CPM-7604-286 - SMT TC

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

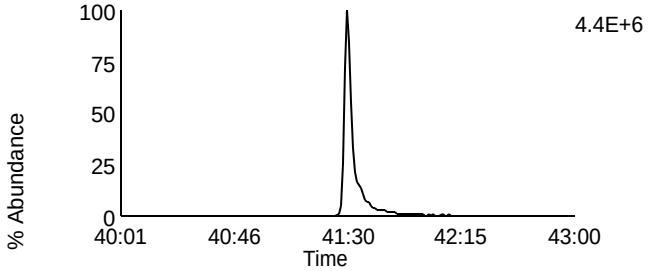
Data File: U131104A_01 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - SMT TC



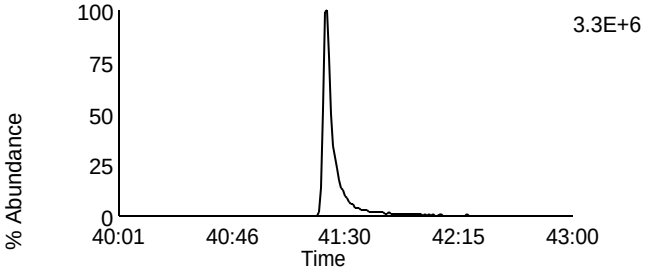
Data File: U131104A_01 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - SMT TC



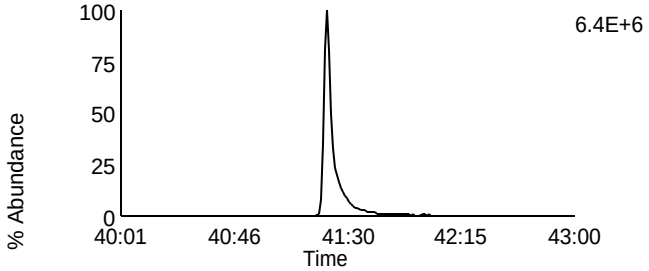
Data File: U131104A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - SMT TC



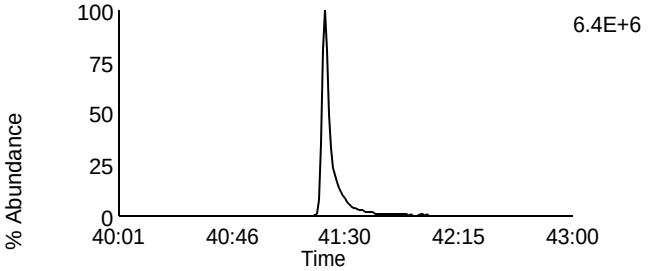
Data File: U131104A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-286 - SMT TC



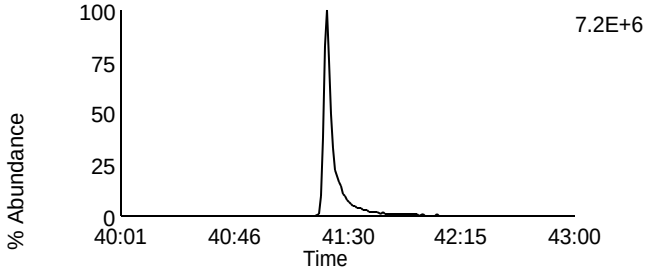
Data File: U131104A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT TC



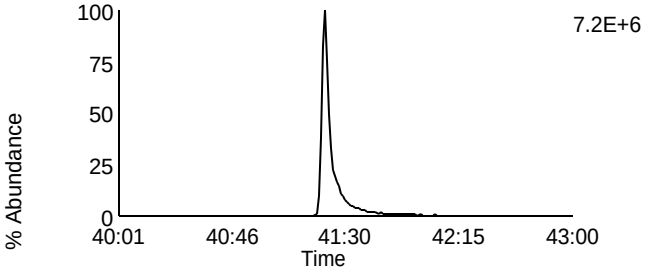
Data File: U131104A_01 G5 C11 - 469.7779
CAL CS3/CPM-7604-286 - SMT TC



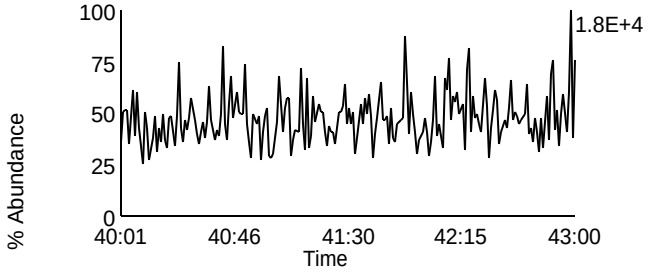
Data File: U131104A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT TC



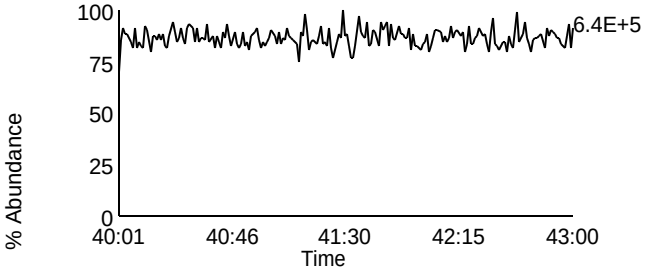
Data File: U131104A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-286 - SMT TC



Data File: U131104A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-286 - SMT TC

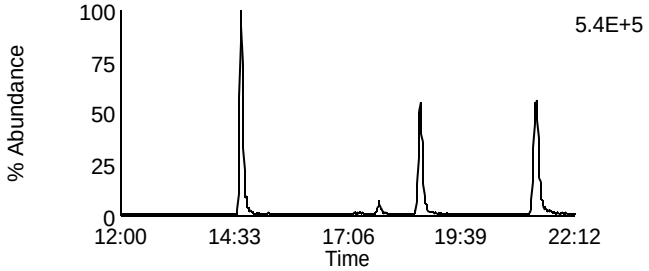


Homologue Group: Tetras

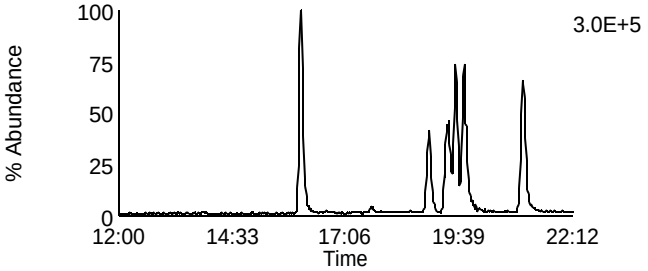
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

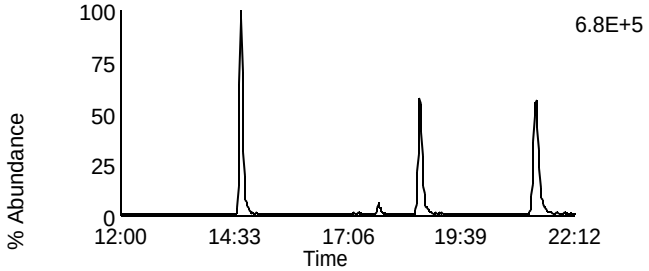
Data File: U131108A_03 G1 C1 - 303.9016
CAL CS3/CPM-7604-286 - BAL



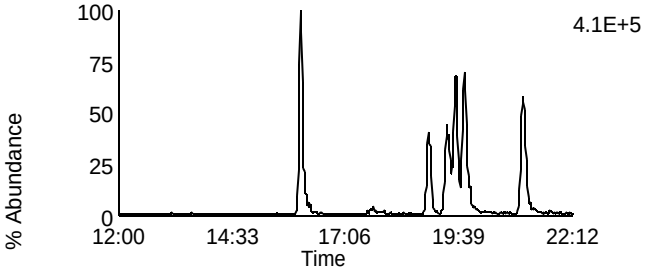
Data File: U131108A_03 G1 C7 - 319.8965
CAL CS3/CPM-7604-286 - BAL



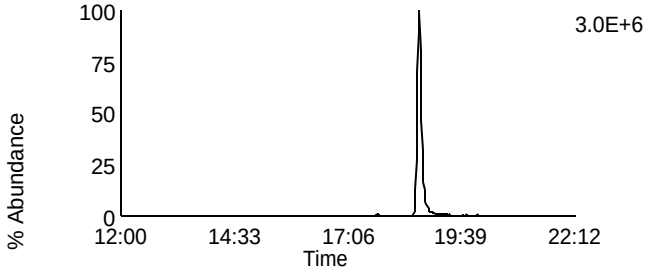
Data File: U131108A_03 G1 C2 - 305.8987
CAL CS3/CPM-7604-286 - BAL



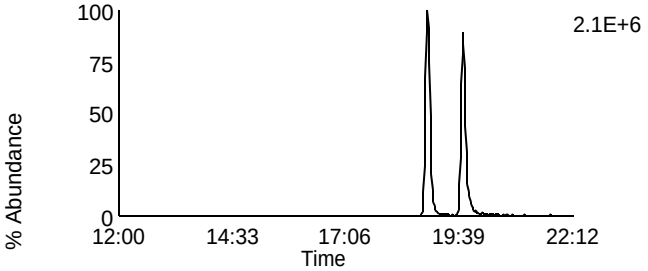
Data File: U131108A_03 G1 C8 - 321.8936
CAL CS3/CPM-7604-286 - BAL



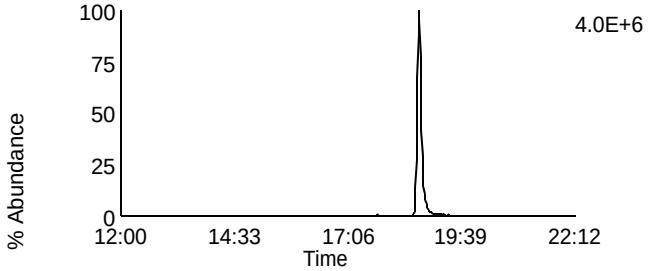
Data File: U131108A_03 G1 C3 - 315.9418
CAL CS3/CPM-7604-286 - BAL



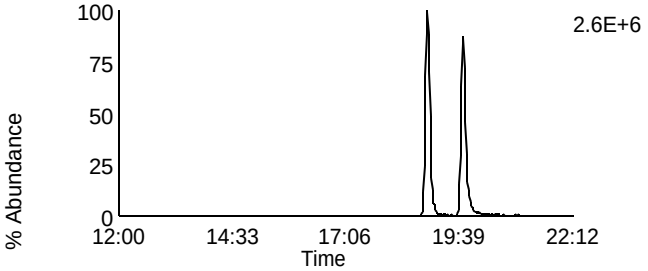
Data File: U131108A_03 G1 C10 - 331.9367
CAL CS3/CPM-7604-286 - BAL



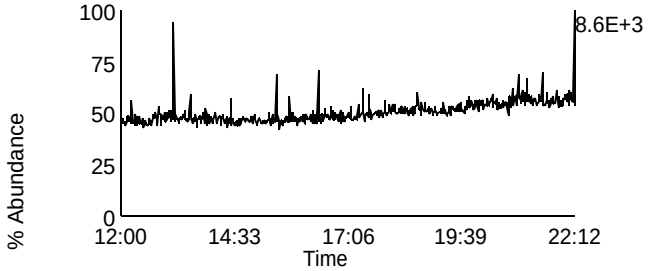
Data File: U131108A_03 G1 C4 - 317.9389
CAL CS3/CPM-7604-286 - BAL



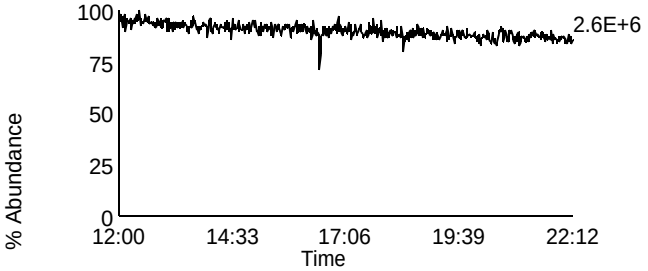
Data File: U131108A_03 G1 C11 - 333.9338
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C14 - 375.8364
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL

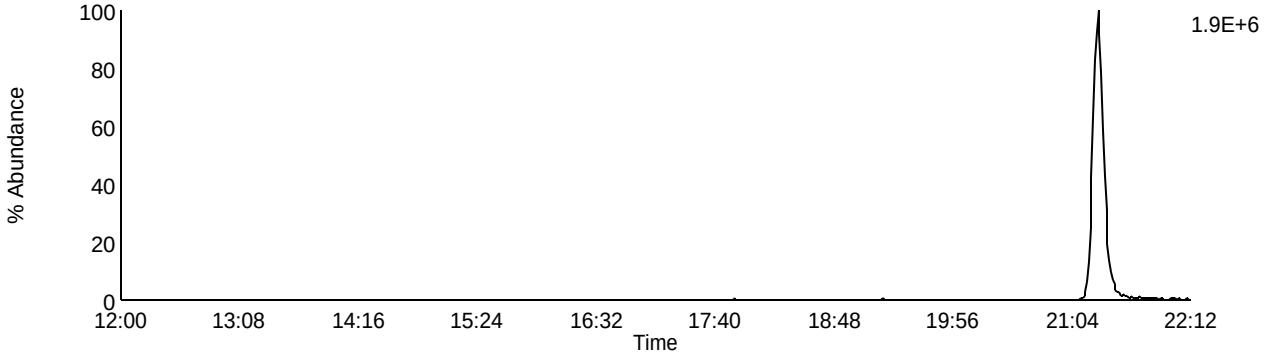


Homologue Group: Penta & Cleanup

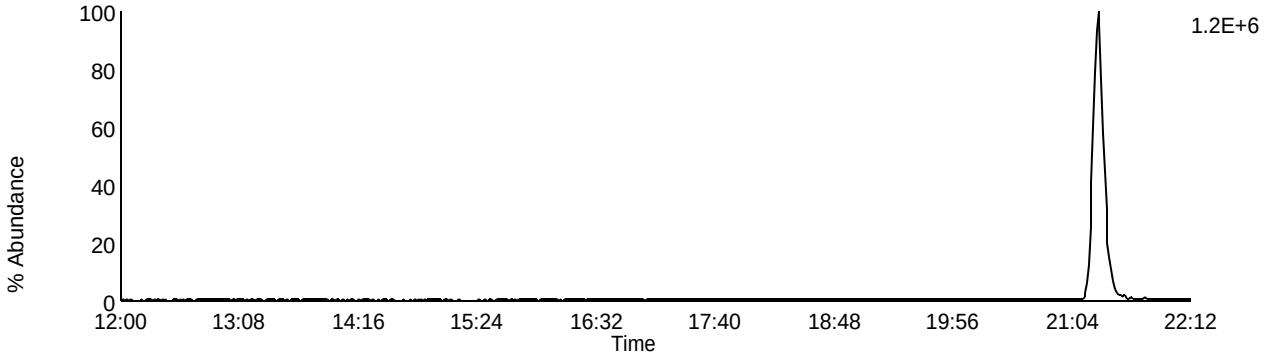
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

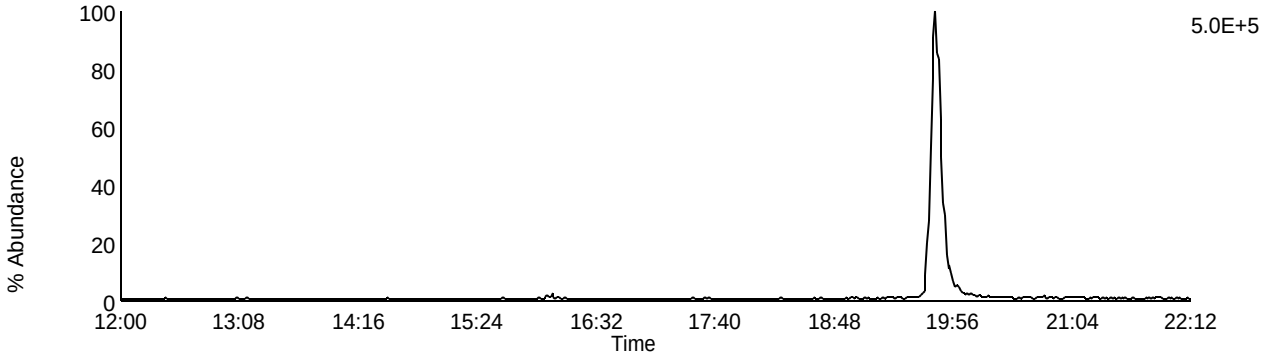
Data File: U131108A_03 G1 C12 - 339.8597
CAL CS3/CPM-7604-286 - BAL



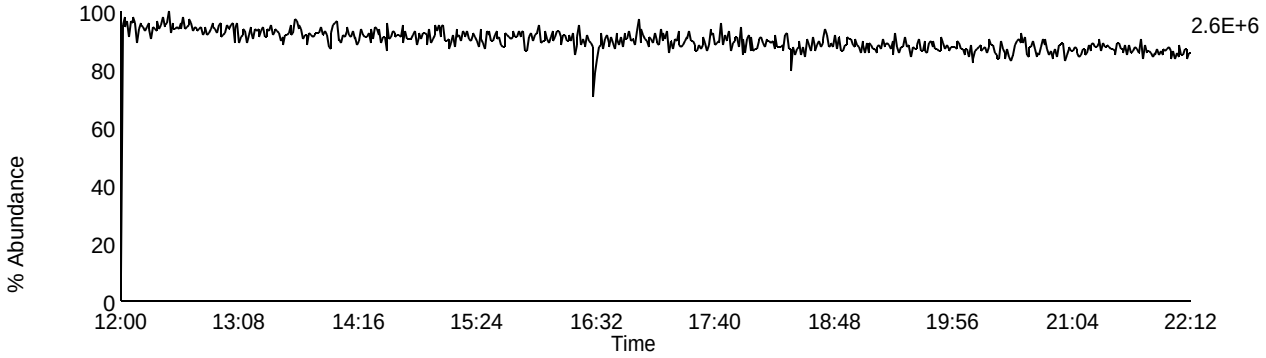
Data File: U131108A_03 G1 C13 - 341.8567
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C9 - 327.8847
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G1 C5 - 318.9792
CAL CS3/CPM-7604-286 - BAL

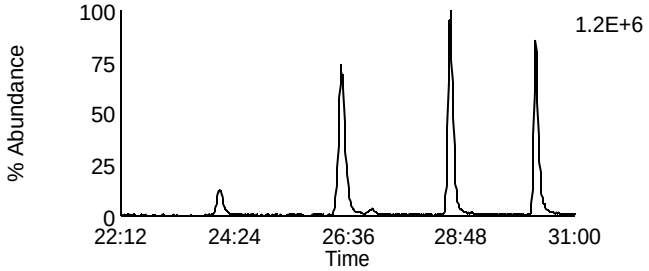


Homologue Group: Pentas

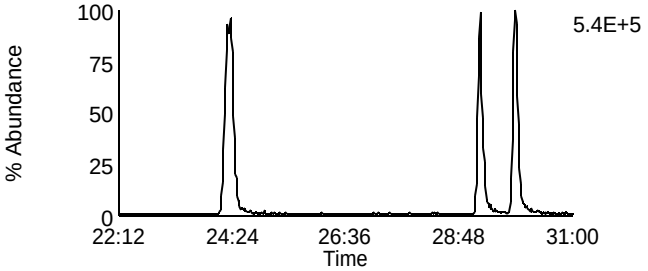
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

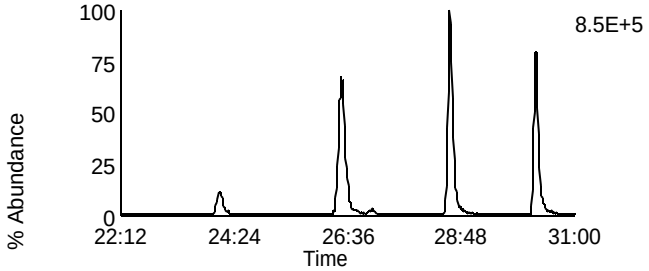
Data File: U131108A_03 G2 C1 - 339.8597
CAL CS3/CPM-7604-286 - BAL



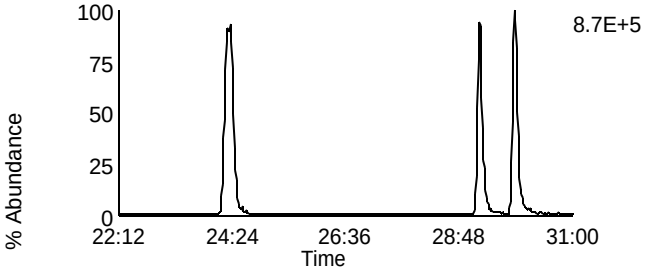
Data File: U131108A_03 G2 C4 - 353.8576
CAL CS3/CPM-7604-286 - BAL



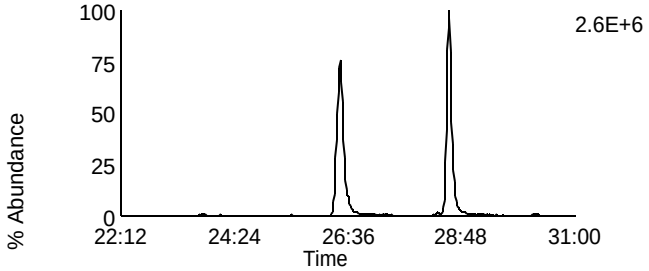
Data File: U131108A_03 G2 C2 - 341.8567
CAL CS3/CPM-7604-286 - BAL



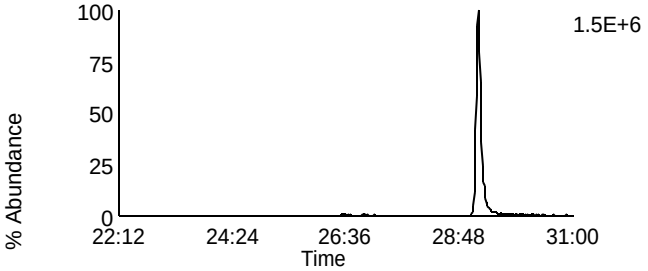
Data File: U131108A_03 G2 C8 - 355.8546
CAL CS3/CPM-7604-286 - BAL



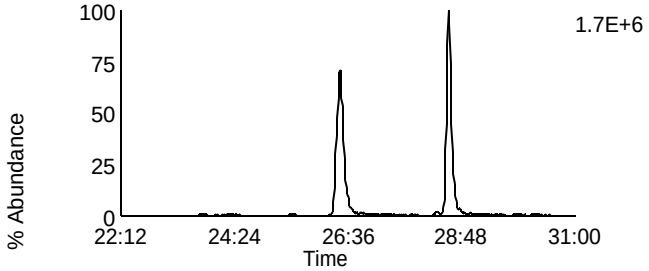
Data File: U131108A_03 G2 C3 - 351.8999
CAL CS3/CPM-7604-286 - BAL



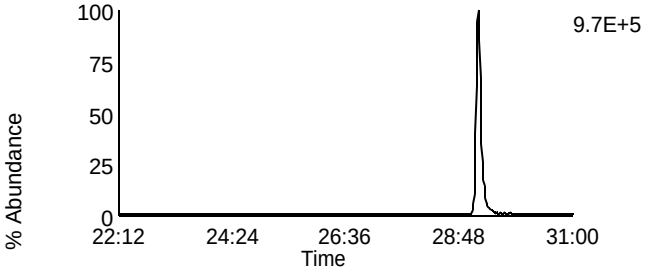
Data File: U131108A_03 G2 C10 - 367.8948
CAL CS3/CPM-7604-286 - BAL



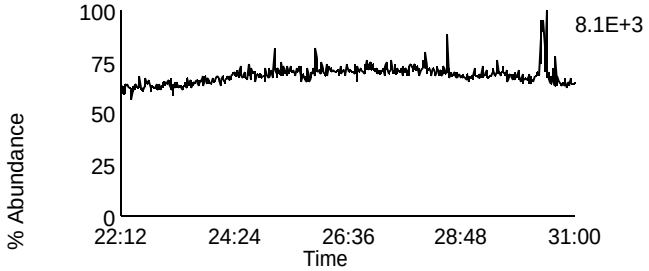
Data File: U131108A_03 G2 C5 - 353.8969
CAL CS3/CPM-7604-286 - BAL



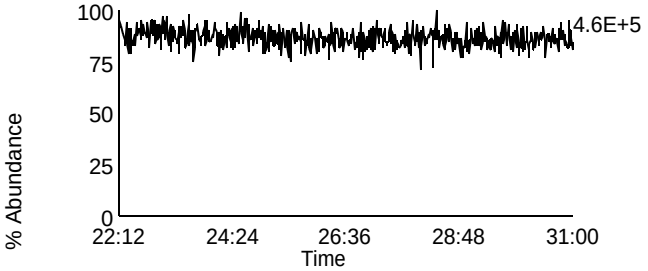
Data File: U131108A_03 G2 C11 - 369.8918
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G2 C12 - 409.7974
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G2 C6 - 354.9792
CAL CS3/CPM-7604-286 - BAL

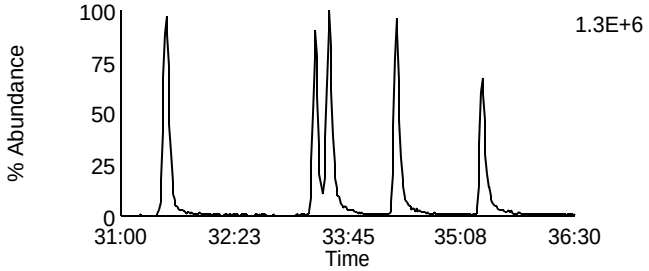


Homologue Group: Hexas

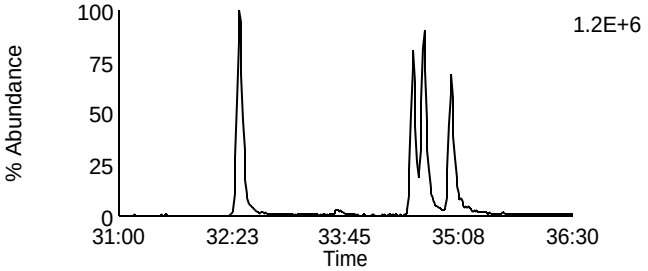
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

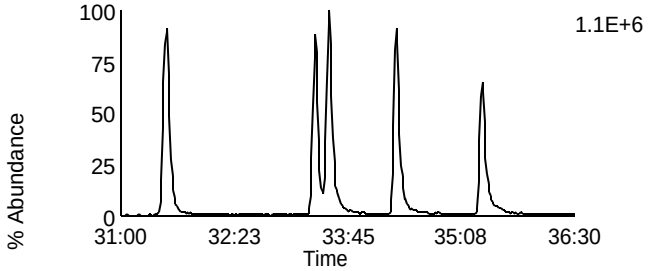
Data File: U131108A_03 G3 C1 - 373.8207
CAL CS3/CPM-7604-286 - BAL



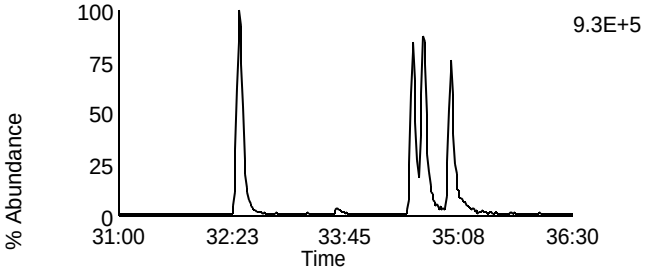
Data File: U131108A_03 G3 C7 - 389.8156
CAL CS3/CPM-7604-286 - BAL



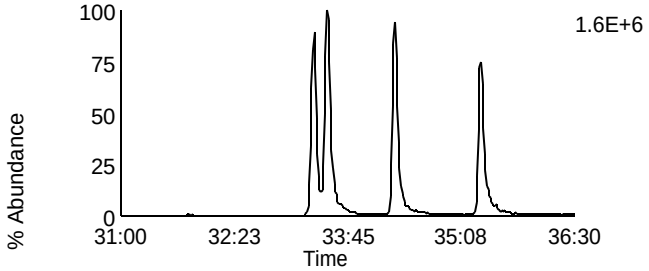
Data File: U131108A_03 G3 C2 - 375.8178
CAL CS3/CPM-7604-286 - BAL



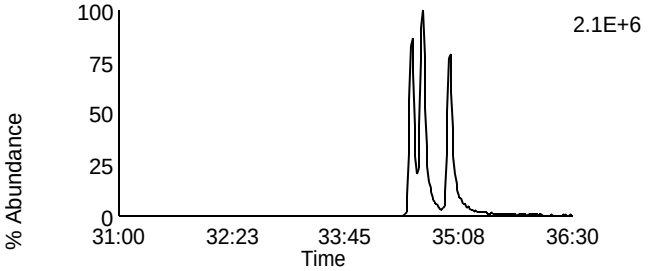
Data File: U131108A_03 G3 C8 - 391.8127
CAL CS3/CPM-7604-286 - BAL



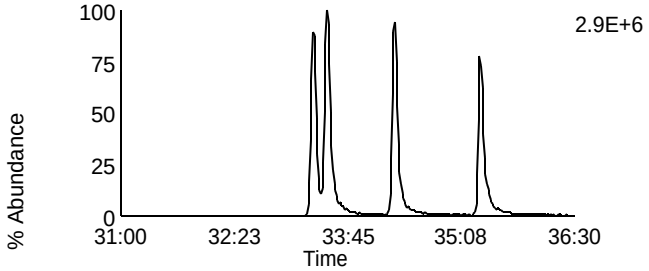
Data File: U131108A_03 G3 C5 - 383.8639
CAL CS3/CPM-7604-286 - BAL



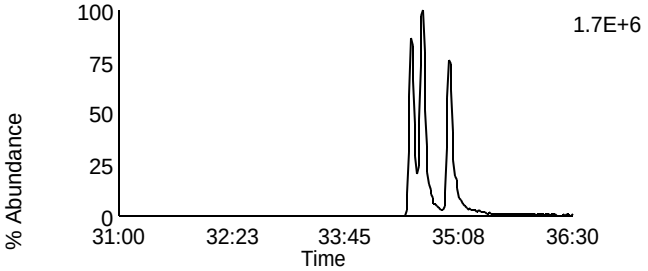
Data File: U131108A_03 G3 C9 - 401.8559
CAL CS3/CPM-7604-286 - BAL



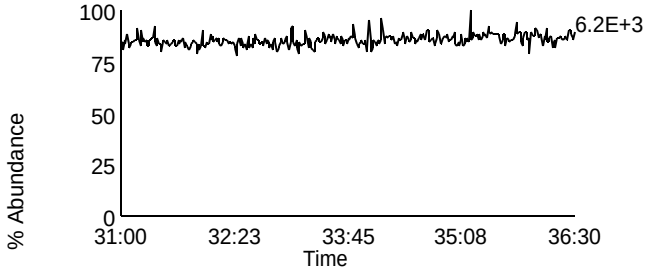
Data File: U131108A_03 G3 C6 - 385.861
CAL CS3/CPM-7604-286 - BAL



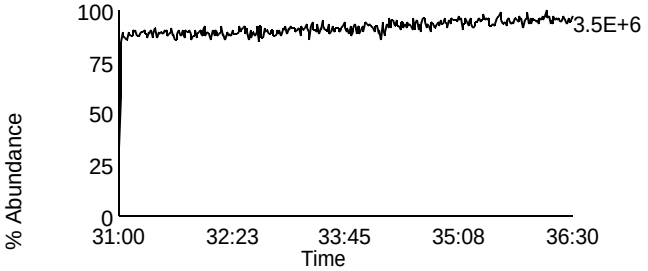
Data File: U131108A_03 G3 C10 - 403.8529
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G3 C11 - 445.7555
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G3 C3 - 380.976
CAL CS3/CPM-7604-286 - BAL

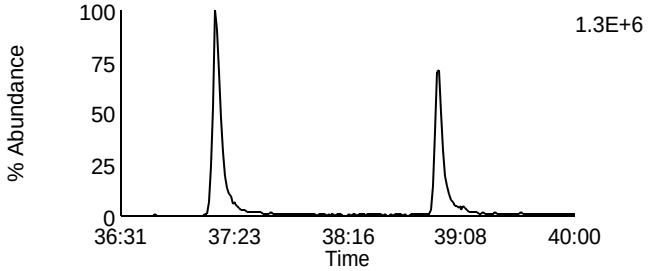


Homologue Group: Heptas

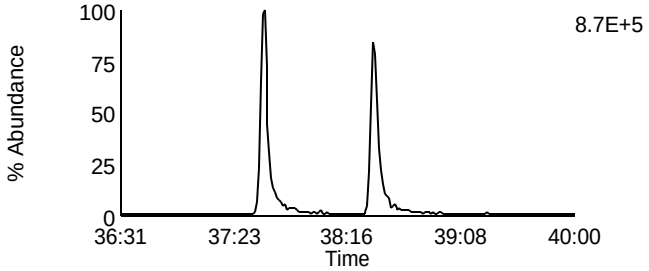
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

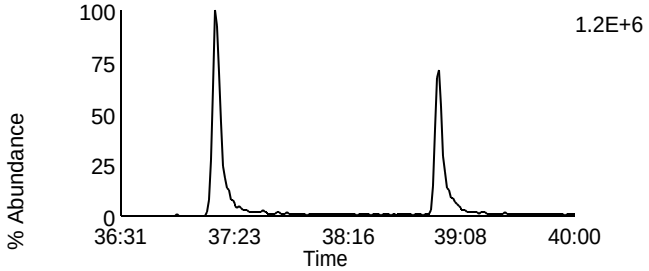
Data File: U131108A_03 G4 C3 - 407.7818
CAL CS3/CPM-7604-286 - BAL



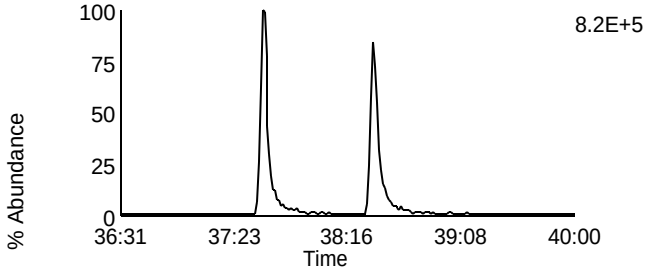
Data File: U131108A_03 G4 C8 - 423.7767
CAL CS3/CPM-7604-286 - BAL



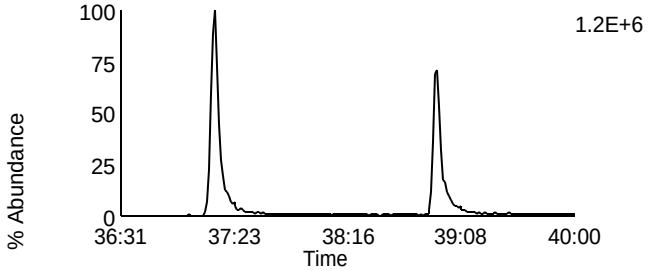
Data File: U131108A_03 G4 C4 - 409.7788
CAL CS3/CPM-7604-286 - BAL



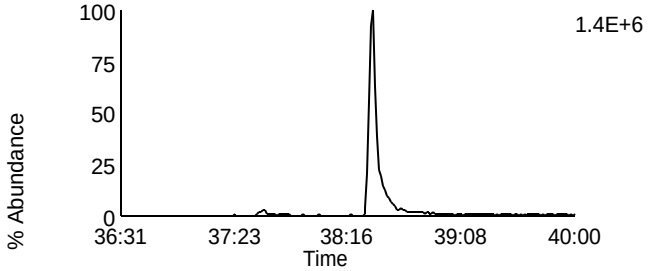
Data File: U131108A_03 G4 C9 - 425.7737
CAL CS3/CPM-7604-286 - BAL



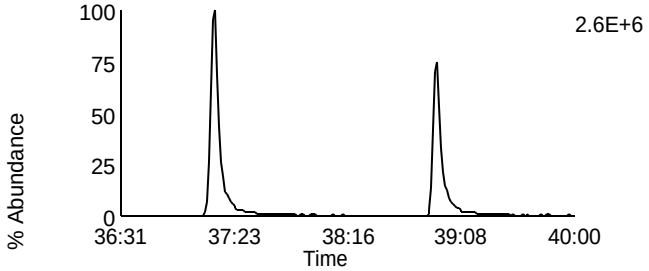
Data File: U131108A_03 G4 C6 - 417.825
CAL CS3/CPM-7604-286 - BAL



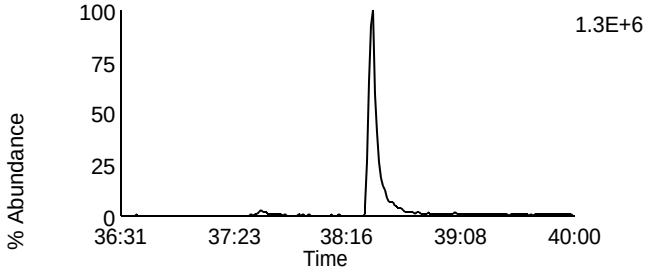
Data File: U131108A_03 G4 C11 - 435.8169
CAL CS3/CPM-7604-286 - BAL



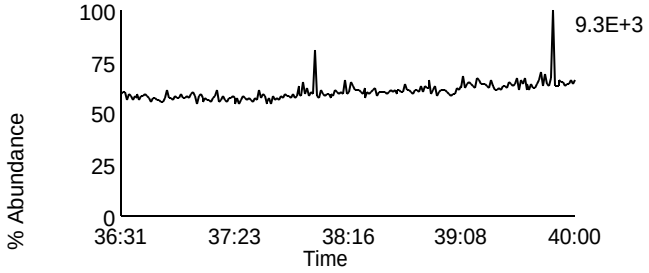
Data File: U131108A_03 G4 C7 - 419.822
CAL CS3/CPM-7604-286 - BAL



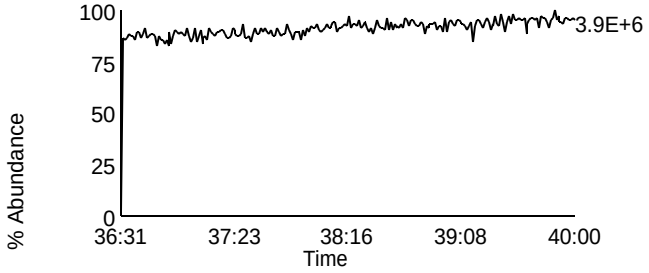
Data File: U131108A_03 G4 C12 - 437.814
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G4 C13 - 479.7165
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G4 C1 - 380.976
CAL CS3/CPM-7604-286 - BAL

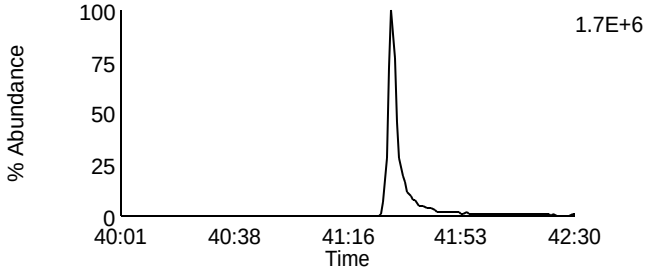


Homologue Group: Octas

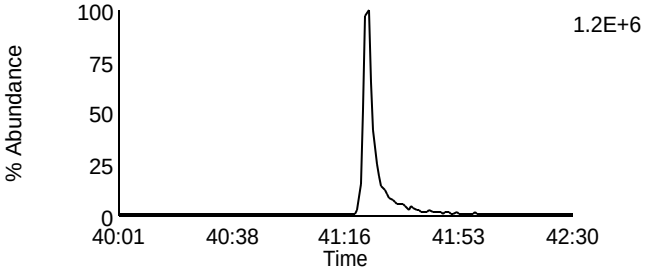
Data File Name: U131108A_03
Date Acquired: 11/8/2013
Sample Description: CAL CS3/CPM-7604-286 - BAL

Lab Sample ID: CS3/CPM-7604-286
Client Sample ID: CPM/WDM
Instrument: 10MSHR06 (U)

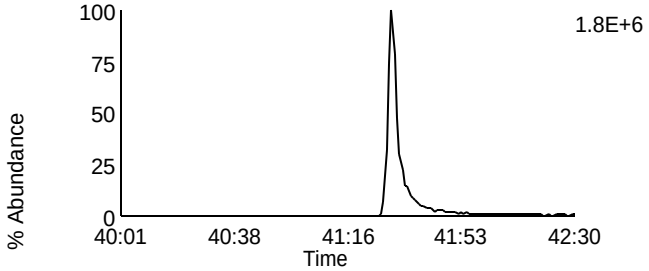
Data File: U131108A_03 G5 C4 - 441.7428
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G5 C8 - 457.7377
CAL CS3/CPM-7604-286 - BAL



Data File: U131108A_03 G5 C5 - 443.7398
CAL CS3/CPM-7604-286 - BAL



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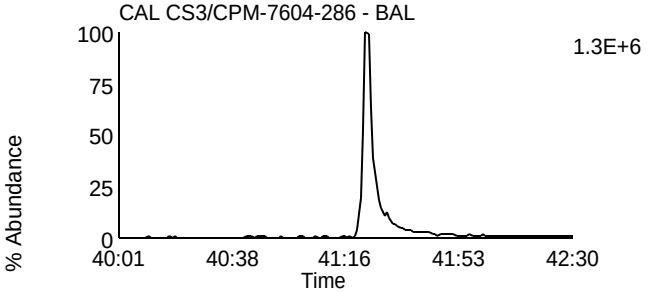
CAL CS3/CPM-7604-286 - BAL



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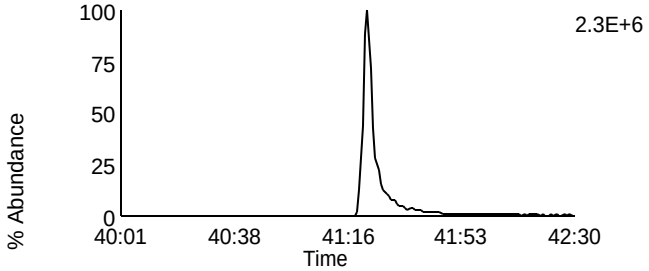
CAL CS3/CPM-7604-286 - BAL



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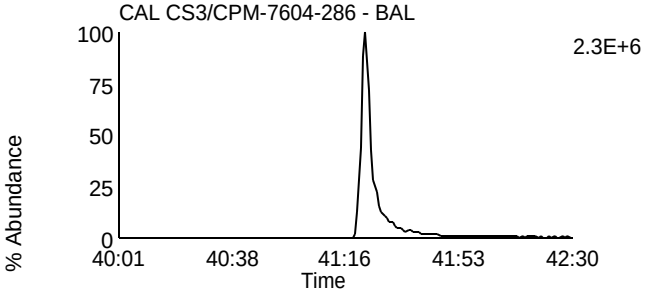

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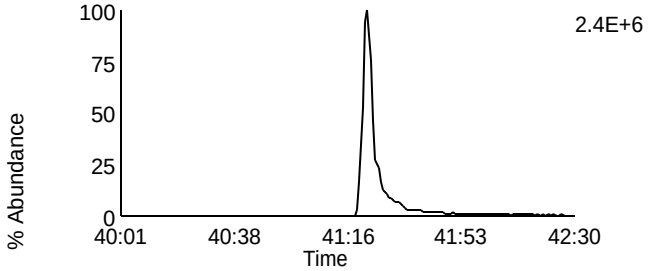
CAL CS3/CPM-7604-286 - BAL



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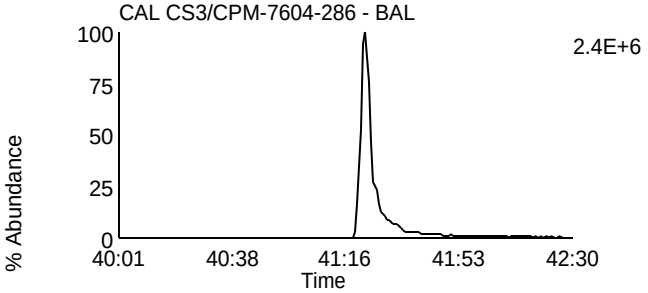

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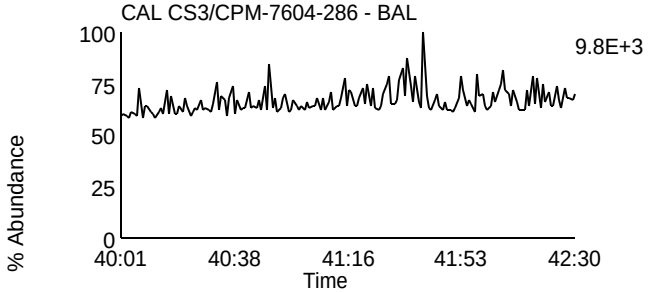
CAL CS3/CPM-7604-286 - BAL



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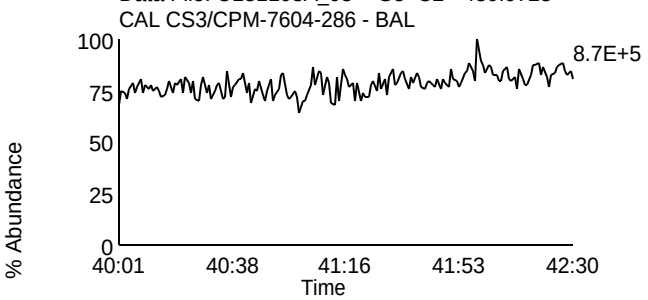
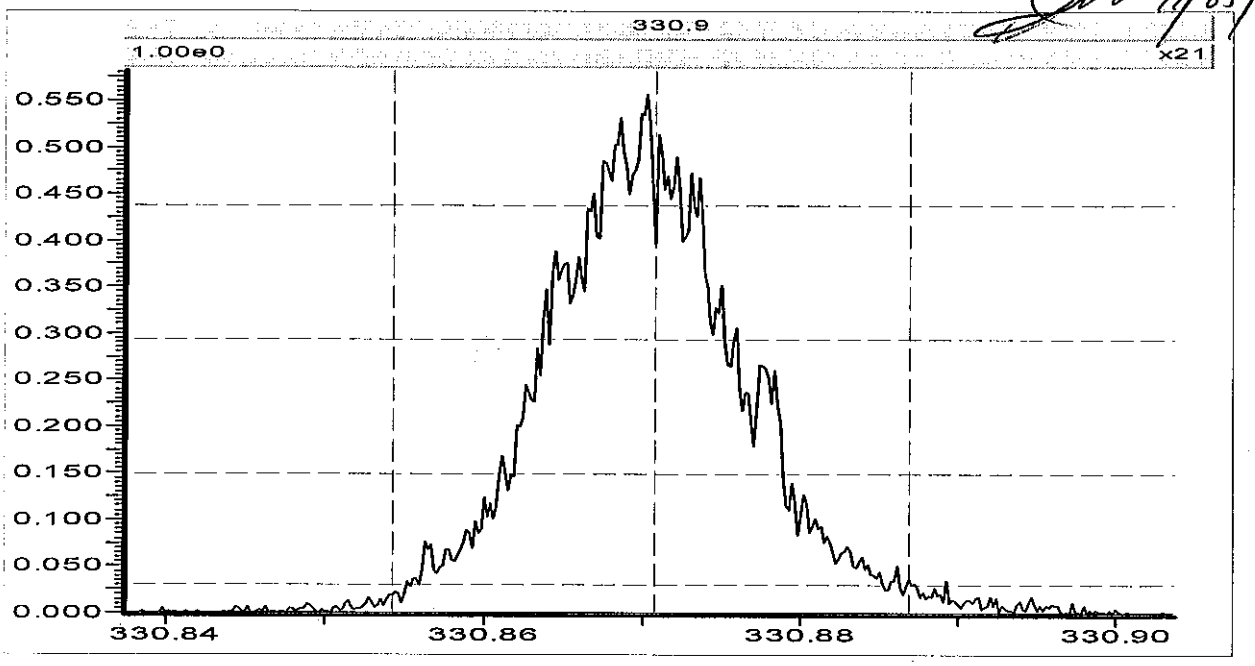


File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Tuesday, November 05, 2013 07:13:22 Central Standard Time

11/05/13

Sum 11/5/13



Source (EI+)

Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3839
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-0.4
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7988.55
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	13.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

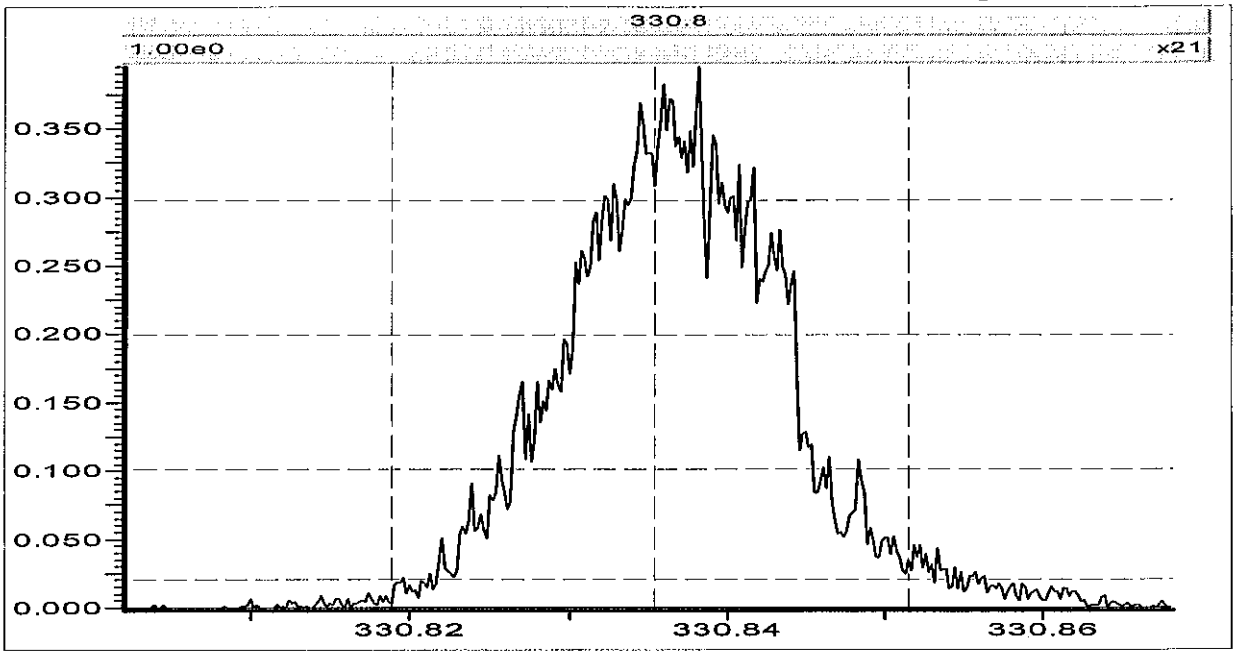
Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Tuesday, November 05, 2013 13:49:11 Central Standard Time

11/05/13

Sum 11/5/13



Source (EI+)

Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3839
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-0.4
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7989.41
Magnet Mass	330.8
Source Slit	29.20
Collector Slit	13.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

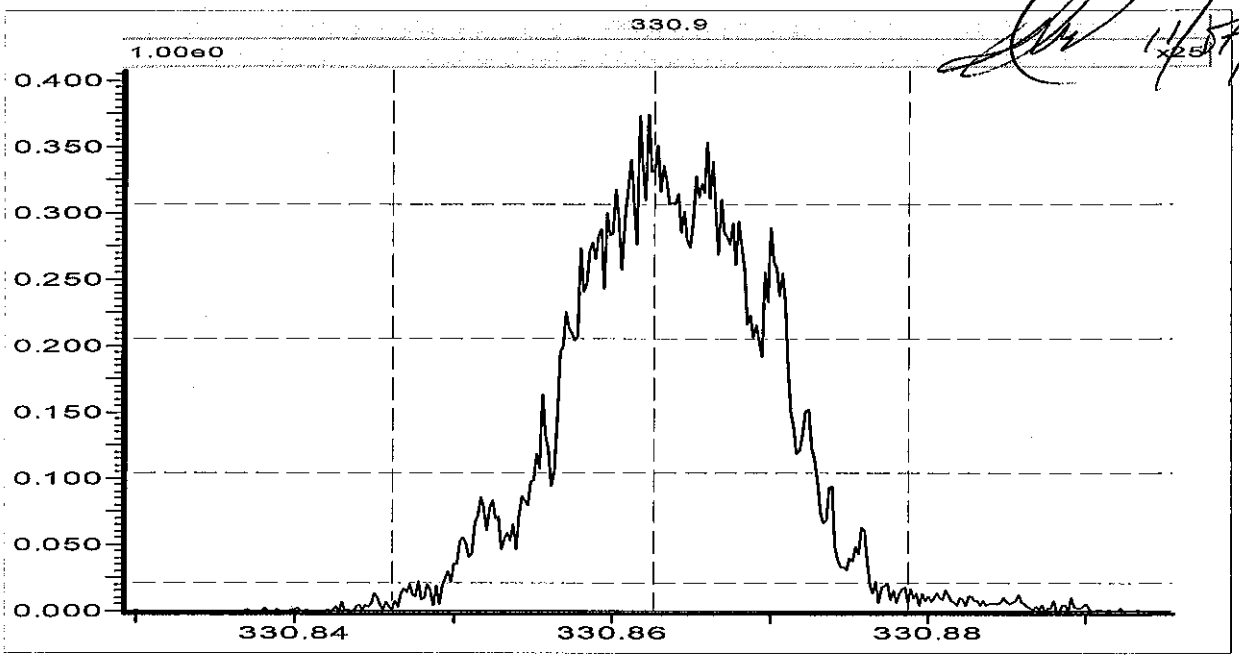
Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Wednesday, November 06, 2013 18:15:28 Central Standard Time

BAZ 11/6/13

11/27/13



Source (EI+)

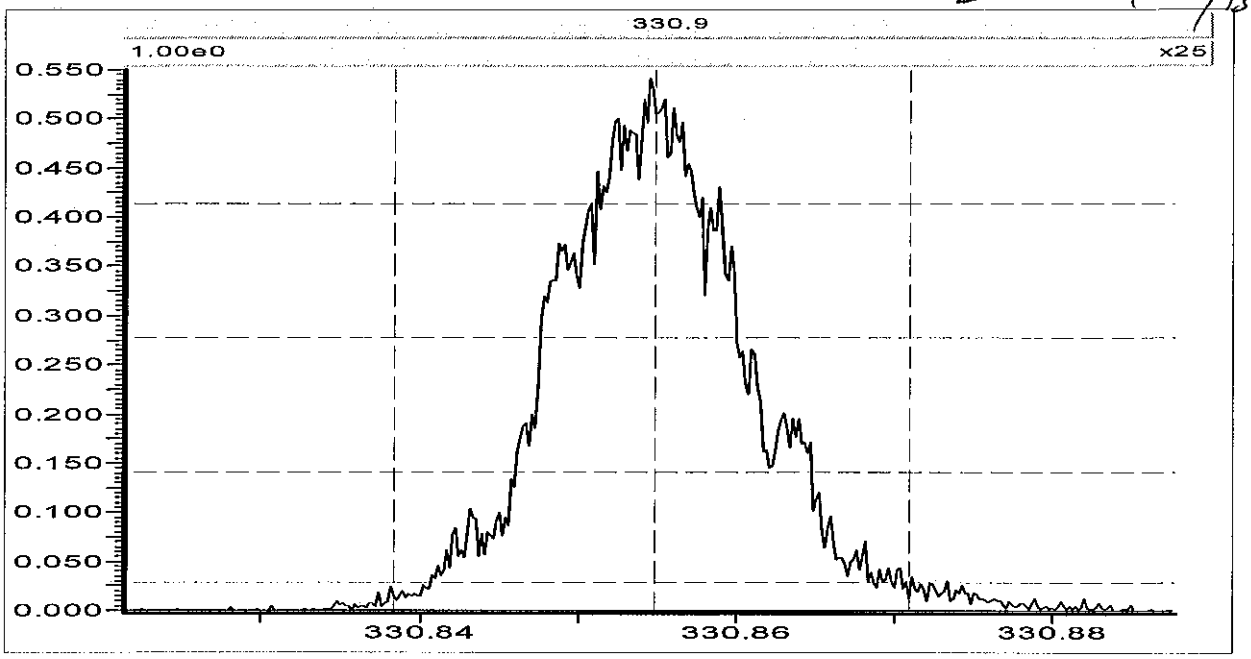
Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3767
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-5.2
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7992.46
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	13.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Thursday, November 07, 2013 08:17:57 Central Standard Time



Source (EI+)

Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3767
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-5.2
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7992.66
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	13.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

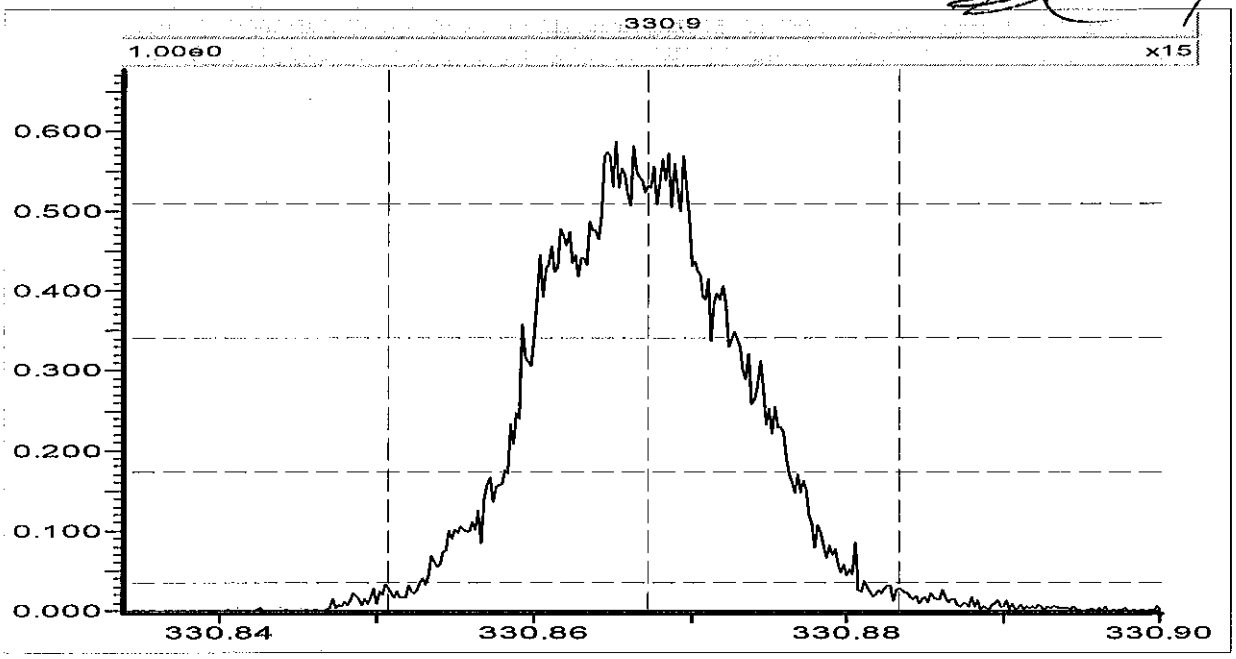
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Thursday, November 07, 2013 08:21:09 Central Standard Time

11/07/13



Source (EI+)

Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3767
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-5.2
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7992.34
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	14.42
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
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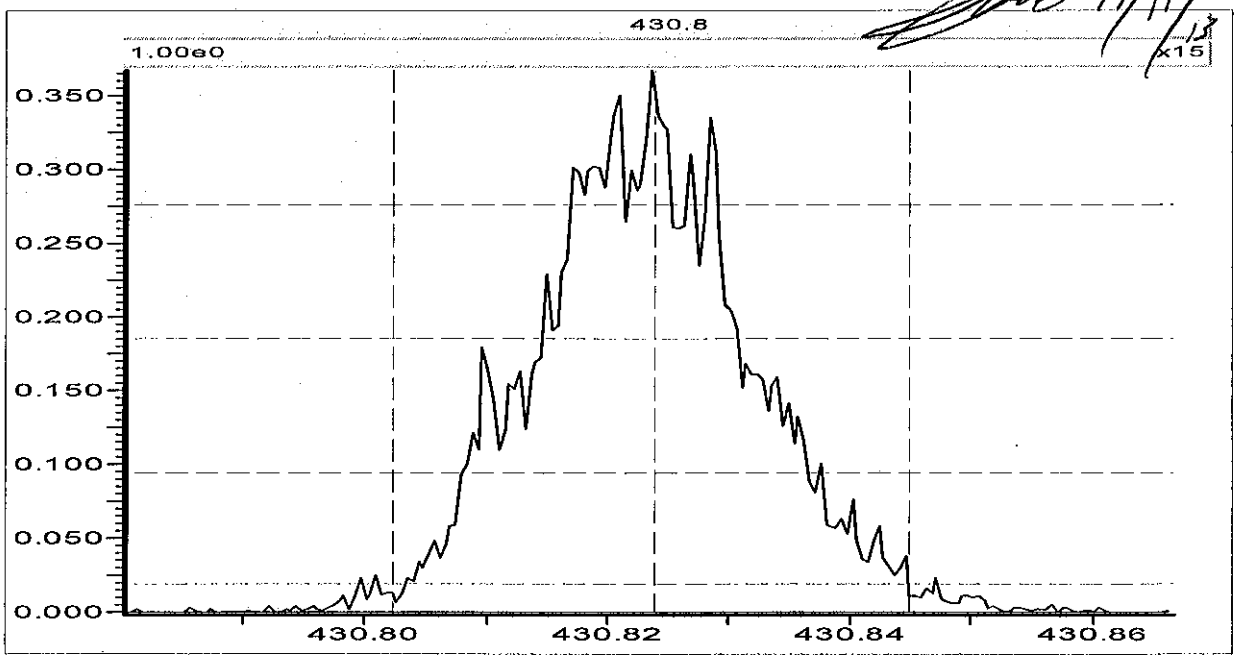
File: C:\MassLynx\Default.pro\Acqudb\F10MSHR05.ipr

Printed: Friday, November 08, 2013 06:51:21 Central Standard Time



Source (EI+)

Ion Repeller (V)	-9.93
Focus 1	809
Beam Centre	-18.1
Focus 2	3991
Temperature (C)	280
Elec Energy (eV)	36.0
Trap Current (uA)	500.0
Y Deflect 1	-129.4
Z Deflect 1	56.7
Z Deflect 2	33.9
Z Focus 2	2280
Z Focus 3	0
Z Deflect 3	1.5
Y Focus	3767
Rotate 2	-9.1
Curve 2	11.6
Curve 3	-5.2
Rotate 3	-22.7
Rotate 4	8.2
V Acc (V)	7992.34
Magnet Mass	330.9
Source Slit	29.20
Collector Slit	14.42
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
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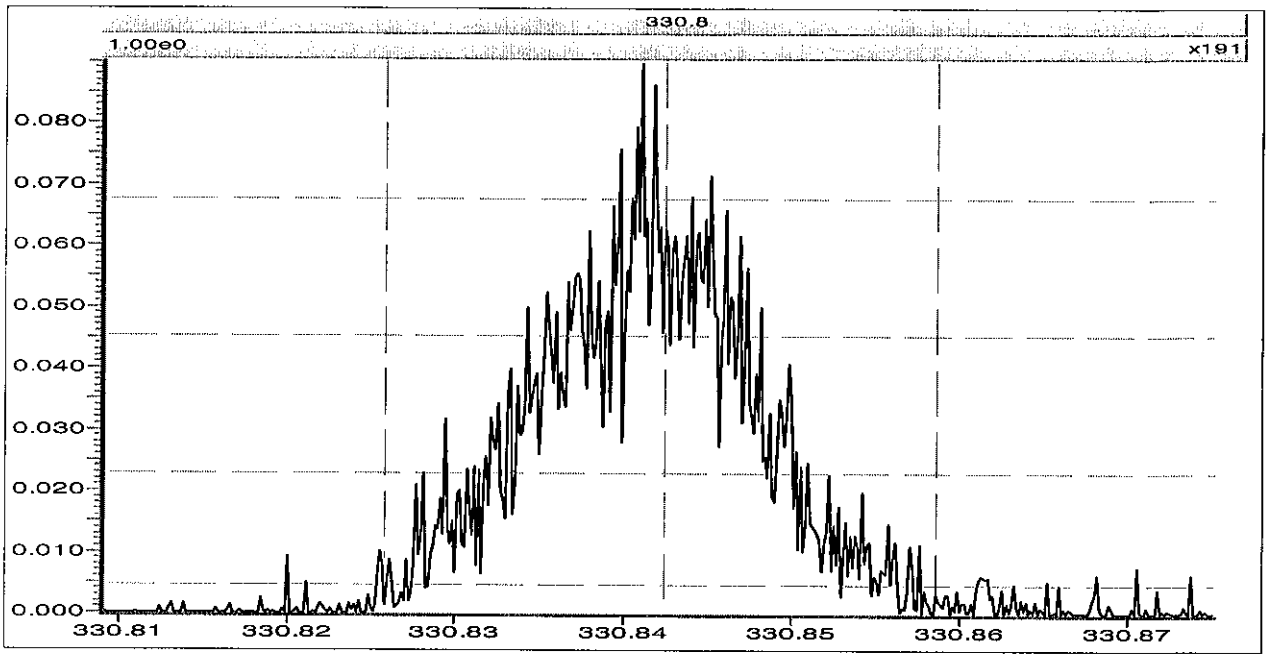
File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

Printed: Monday, November 04, 2013 09:18:25 Central Standard Time



Source (EI+)

Ion Repeller (V)	-5.14
Focus 1	784
Beam Centre	53.8
Focus 2	4067
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-90.0
Z Deflect 1	-65.4
Z Deflect 2	-49.5
Z Focus 2	2266
Z Focus 3	0
Z Deflect 3	-25.6
Y Focus	3808
Rotate 2	-21.5
Curve 2	-5.0
Curve 3	-3.8
Rotate 3	-5.1
Rotate 4	25.0
V Acc (V)	7991.59
Magnet Mass	330.8
Source Slit	19.72
Collector Slit	35.20
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

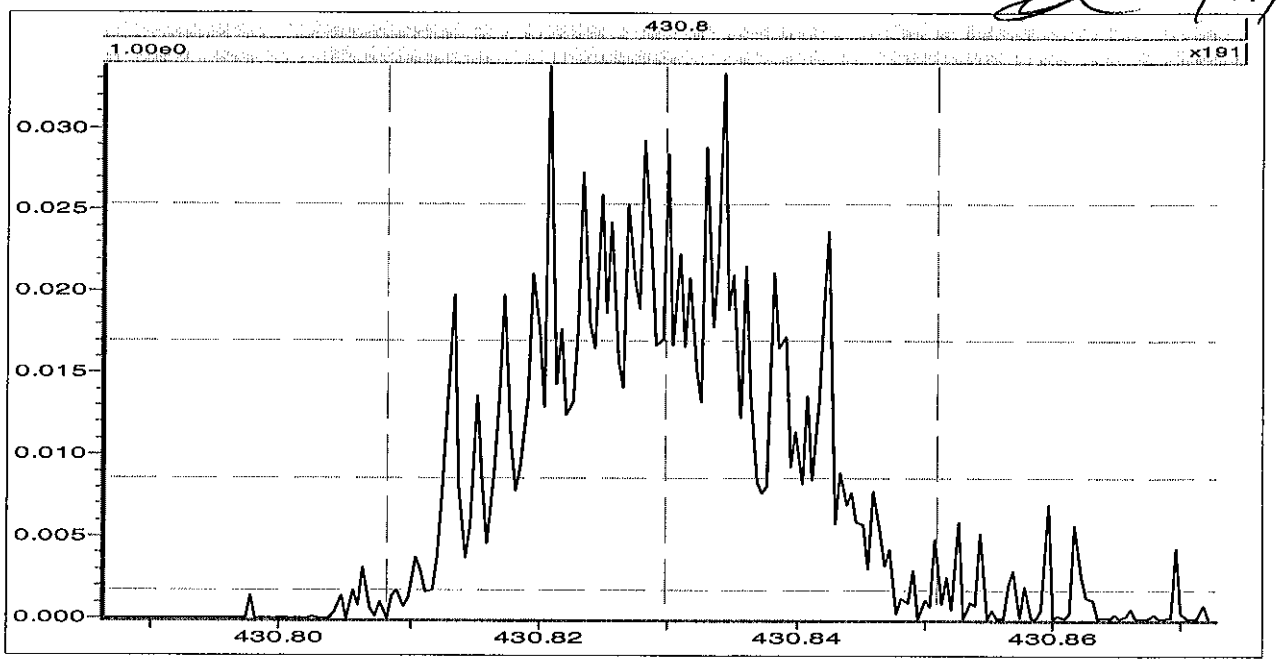
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.PRO\ACQUDB\U10MSHR06.IPR

Printed: Tuesday, November 05, 2013 06:43:49 Central Standard Time

11/05/13



11/5/13

Source (EI+)

Ion Repeller (V)	-5.14
Focus 1	784
Beam Centre	53.8
Focus 2	4067
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-90.0
Z Deflect 1	-65.4
Z Deflect 2	-49.5
Z Focus 2	2266
Z Focus 3	0
Z Deflect 3	-25.6
Y Focus	3808
Rotate 2	-21.5
Curve 2	-5.0
Curve 3	-3.8
Rotate 3	-5.1
Rotate 4	25.0
V Acc (V)	7991.59
Magnet Mass	330.8
Source Slit	19.72
Collector Slit	35.20
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

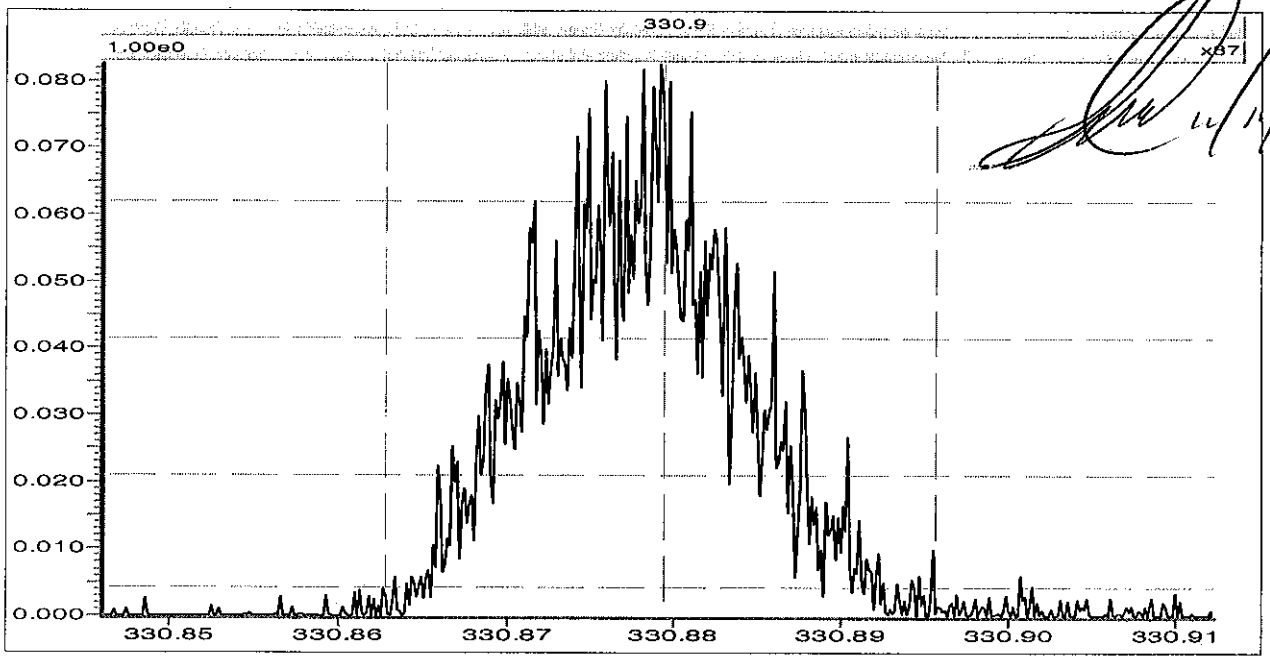
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\U10MSHR06.IPR

Printed: Friday, November 08, 2013 12:00:30 Central Standard Time

BAL 11/8/13



Source (EI+)

Ion Repeller (V)	-7.95
Focus 1	676
Beam Centre	40.3
Focus 2	3995
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-58.6
Z Deflect 1	-43.7
Z Deflect 2	-49.5
Z Focus 2	2302
Z Focus 3	0
Z Deflect 3	-30.3
Y Focus	3828
Rotate 2	-18.3
Curve 2	2.2
Curve 3	-5.7
Rotate 3	-3.9
Rotate 4	29.2
V Acc (V)	7989.52
Magnet Mass	330.9
Source Slit	19.72
Collector Slit	34.80
MIKES Slit	100.00
Alpha	60.00
Detector Voltage	350
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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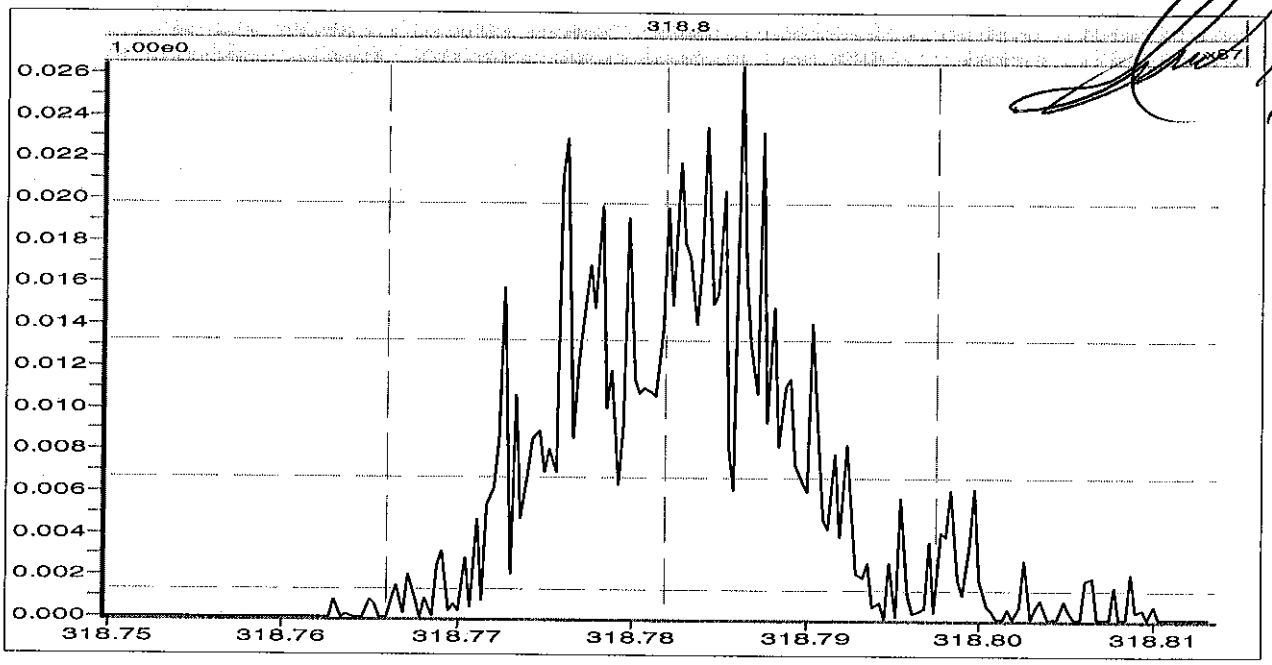
Printed: Saturday, November 09, 2013 11:23:22 Central Standard Time

BAL 11/9/13

11/14/13



Source (EI+)

Ion Repeller (V)	-7.95
Focus 1	676
Beam Centre	40.3
Focus 2	3995
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-58.6
Z Deflect 1	-43.7
Z Deflect 2	-49.5
Z Focus 2	2302
Z Focus 3	0
Z Deflect 3	-30.3
Y Focus	3828
Rotate 2	-18.3
Curve 2	2.2
Curve 3	-5.7
Rotate 3	-3.9
Rotate 4	29.2
V Acc (V)	7989.52
Magnet Mass	330.9
Source Slit	19.72
Collector Slit	34.80
MIKES Slit	100.00
Alpha	60.00
Detector Voltage	350
Ion Energy	-5.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

Appendix F

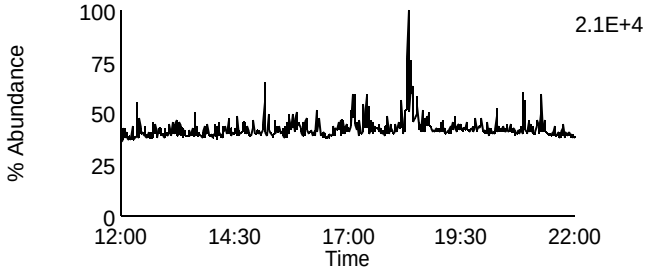
QC Raw Data

Homologue Group: Tetras

Data File Name: F131107A_06
Date Acquired: 11/7/2013
Sample Description: BLANK BLANK-38307 - SMT

Lab Sample ID: BLANK-38307
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131107A_06 G1 C1 - 303.9016
BLANK BLANK-38307 - SMT



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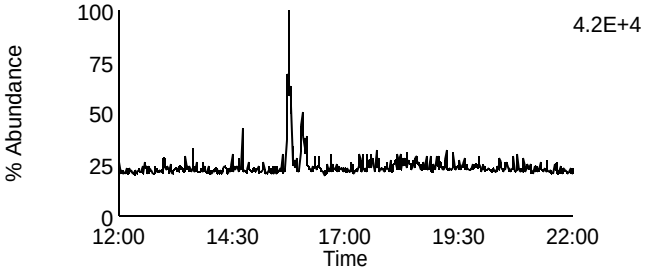
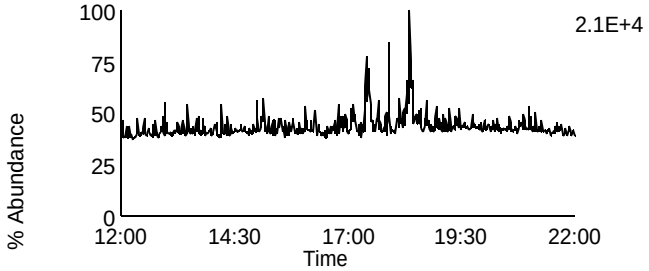
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G1 C2 - 305.8987
BLANK BLANK-38307 - SMT



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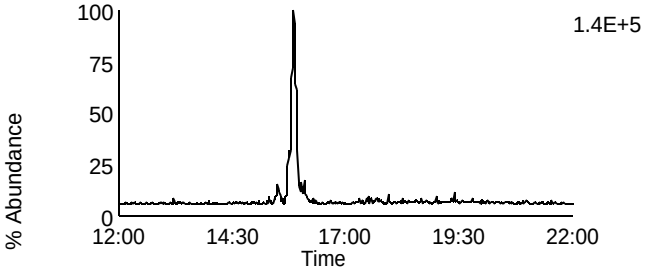
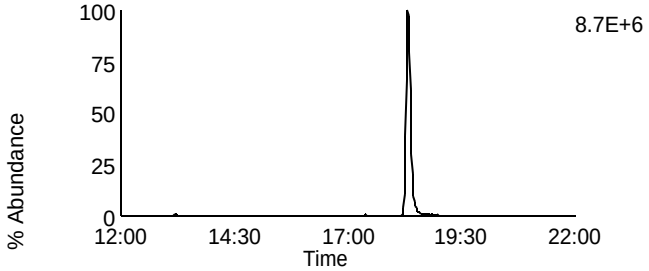
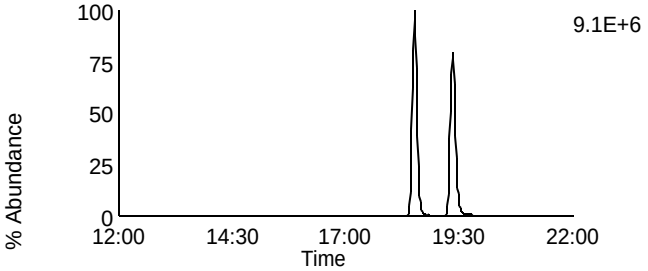
BLANK BLANK-38307 - SMT



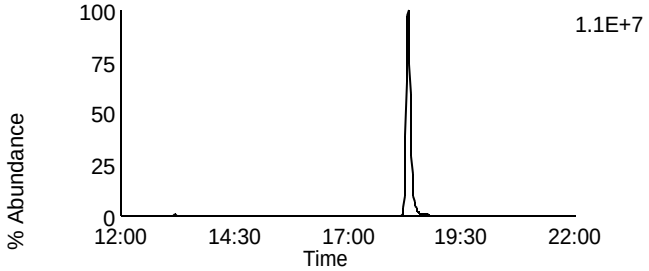
Data File: F131107A_06 G1 C3 - 315.9418
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G1 C10 - 331.9367
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G1 C4 - 317.9389
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G1 C11 - 333.9338
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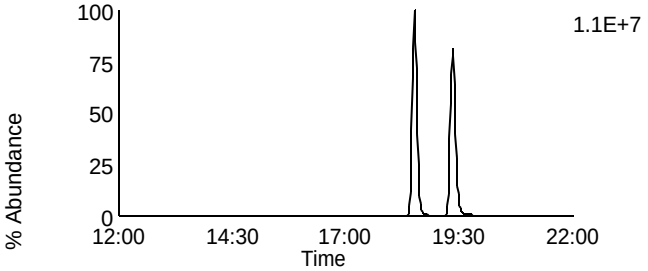

Data File: F131107A_06 G1 C14 - 375.8364
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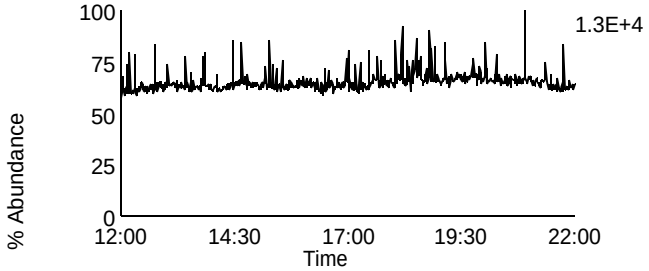
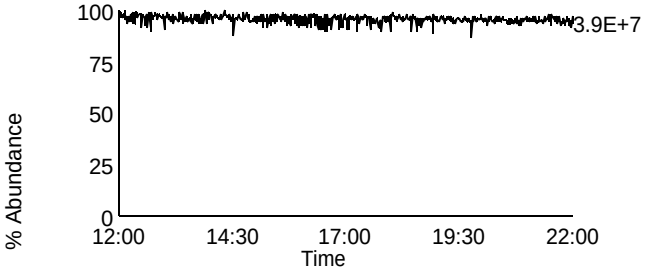


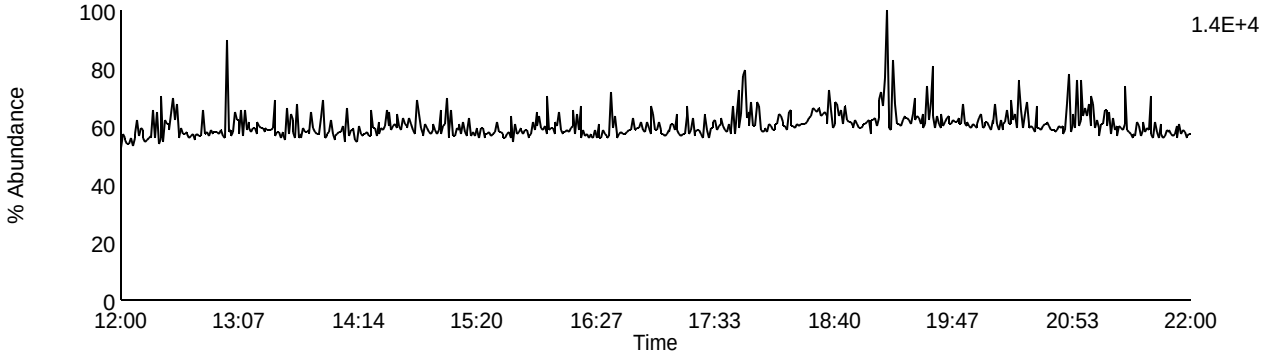
Data File: F131107A_06 G1 C5 - 318.9792
BLANK BLANK-38307 - SMT



Homologue Group: Penta & Cleanup

Data File Name: F131107A_06	Lab Sample ID: BLANK-38307
Date Acquired: 11/7/2013	Client Sample ID:
Sample Description: BLANK BLANK-38307 - SMT	Instrument: 10MSHR05 (F)

Data File: F131107A_06 G1 C12 - 339.8597
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G1 C13 - 341.8567
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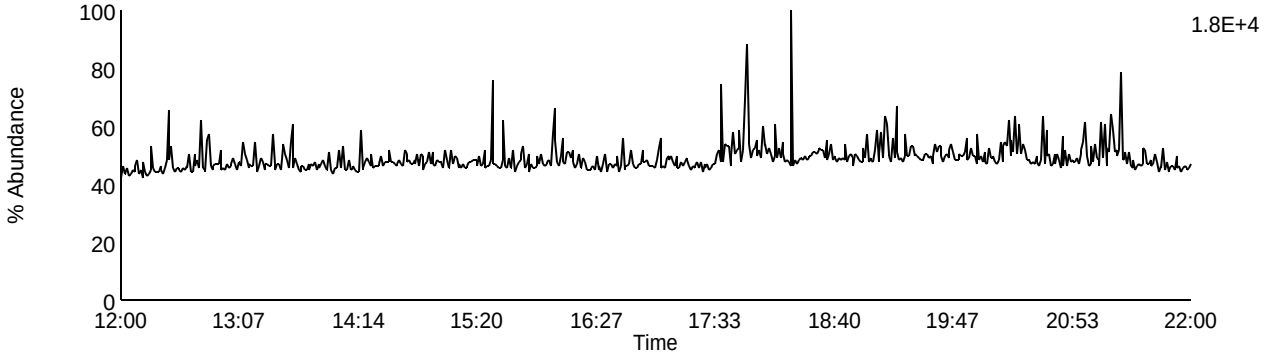

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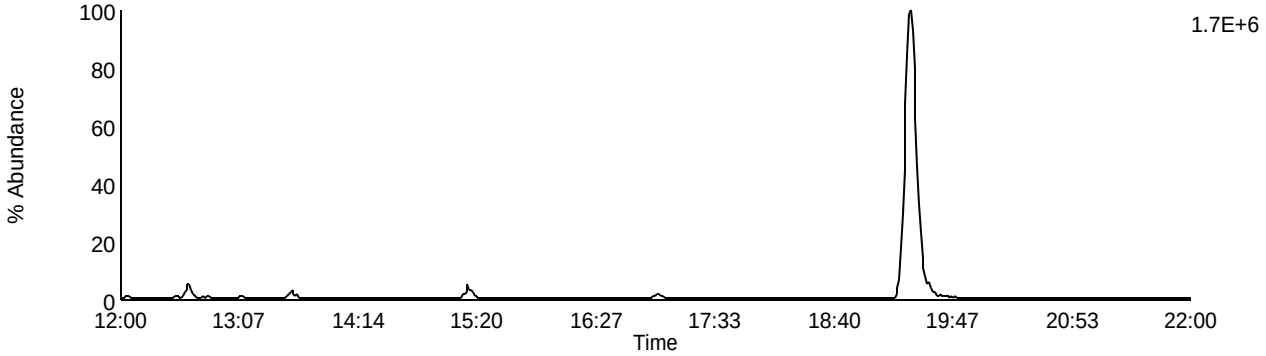

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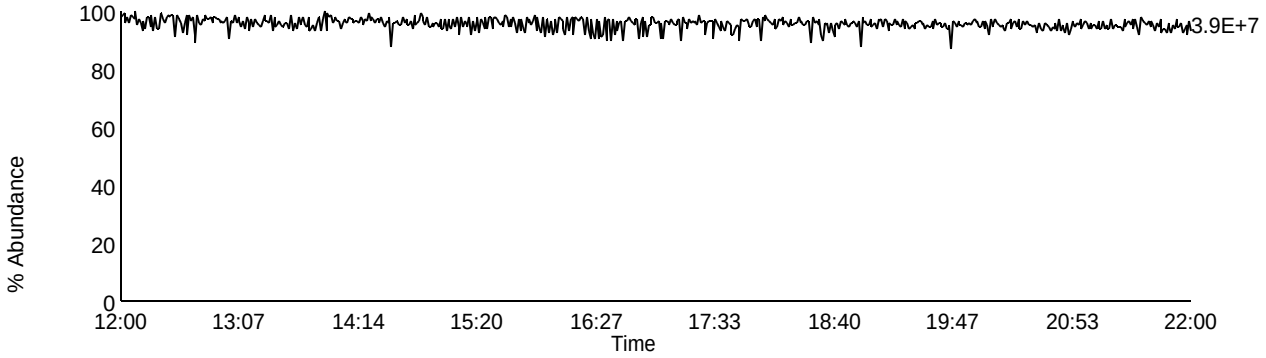
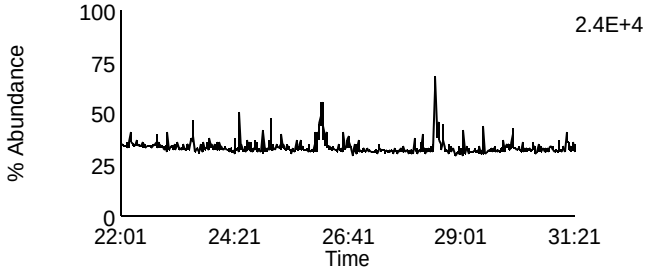


Homologue Group: Pentas

Data File Name: F131107A_06
Date Acquired: 11/7/2013
Sample Description: BLANK BLANK-38307 - SMT

Lab Sample ID: BLANK-38307
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131107A_06 G2 C1 - 339.8597
BLANK BLANK-38307 - SMT



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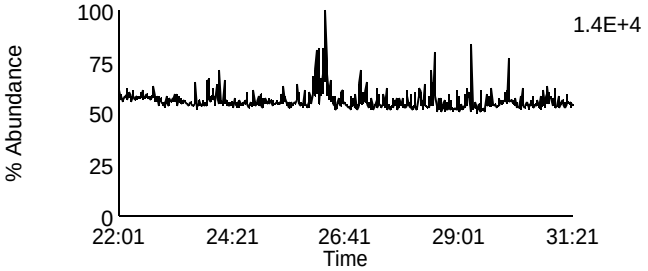

Data File: F131107A_06 G2 C2 - 341.8567
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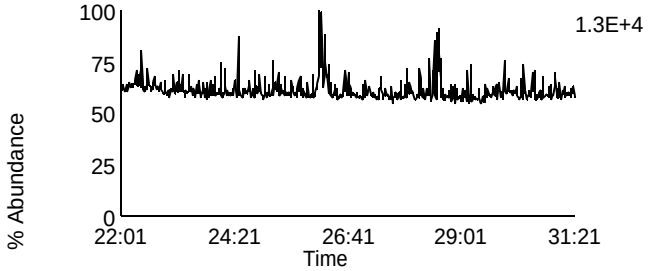

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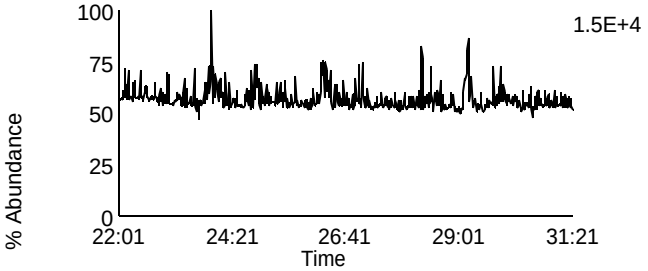
BLANK BLANK-38307 - SMT



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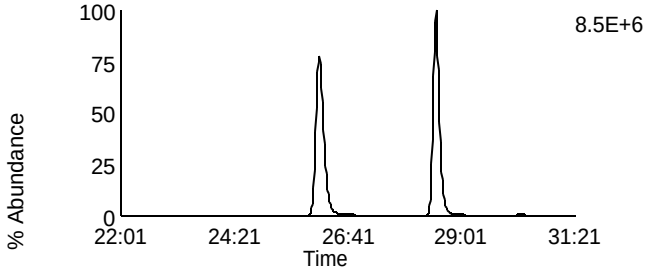
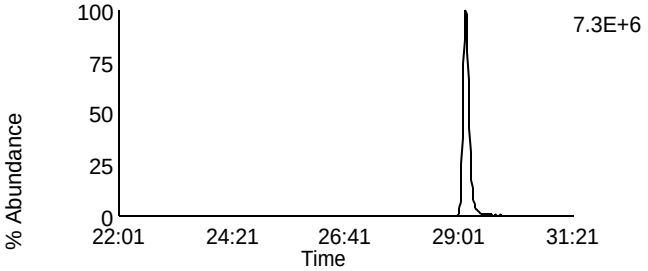
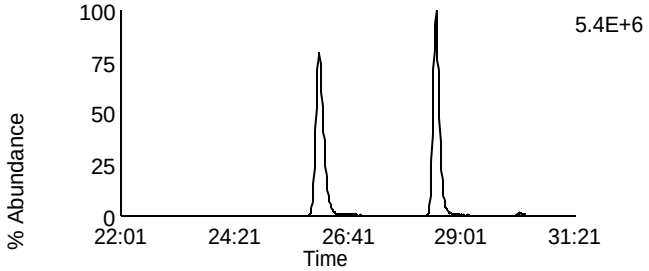
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G2 C10 - 367.8948
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G2 C5 - 353.8969
BLANK BLANK-38307 - SMT



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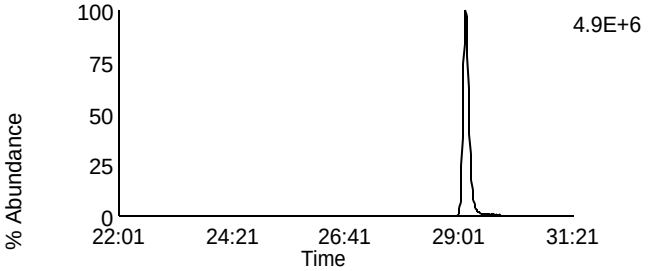
BLANK BLANK-38307 - SMT



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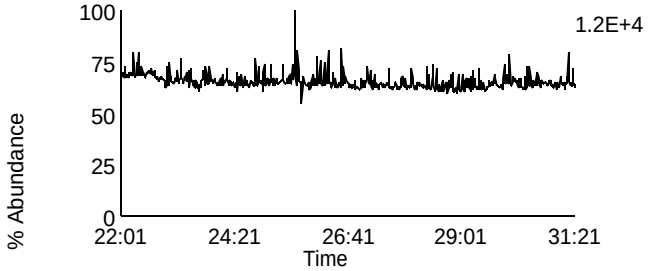
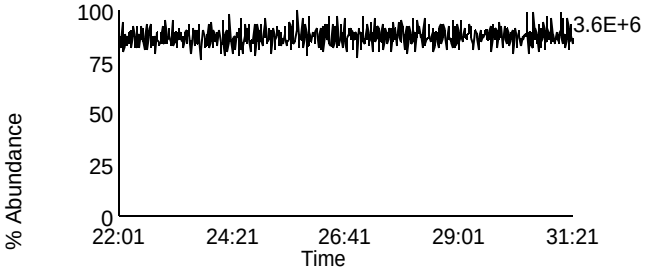
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G2 C6 - 354.9792
BLANK BLANK-38307 - SMT

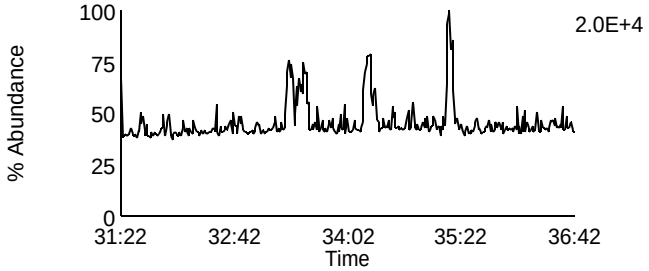


Homologue Group: Hexas

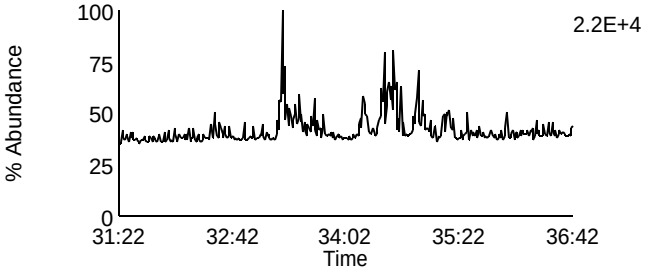
Data File Name: F131107A_06
Date Acquired: 11/7/2013
Sample Description: BLANK BLANK-38307 - SMT

Lab Sample ID: BLANK-38307
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131107A_06 G3 C1 - 373.8207
BLANK BLANK-38307 - SMT



Data File: F131107A_06 G3 C7 - 389.8156
BLANK BLANK-38307 - SMT



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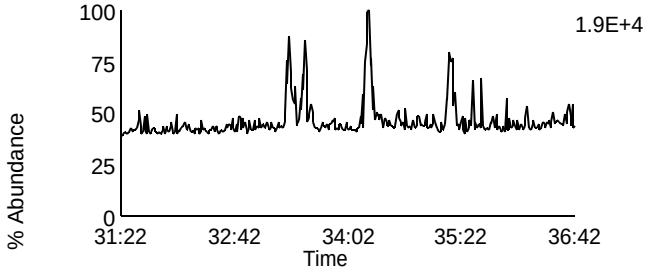

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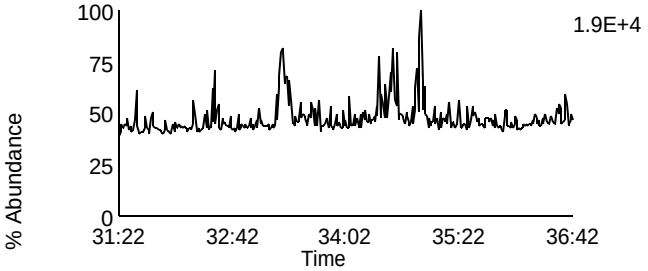
BLANK BLANK-38307 - SMT



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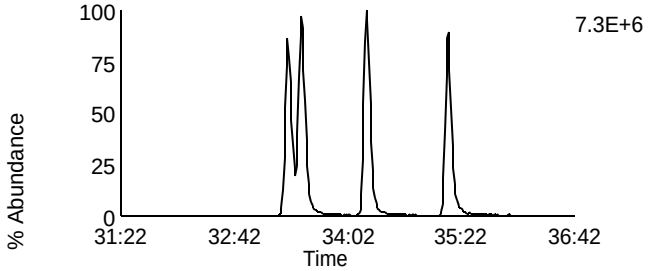

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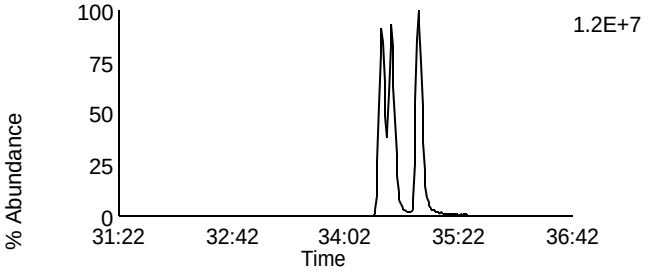

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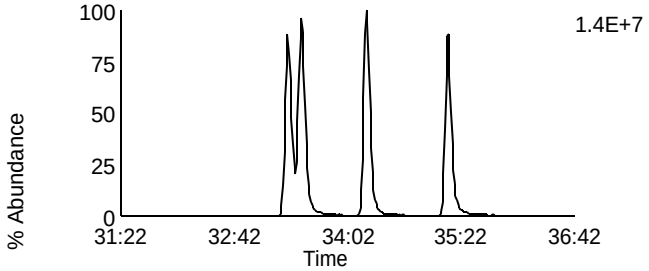

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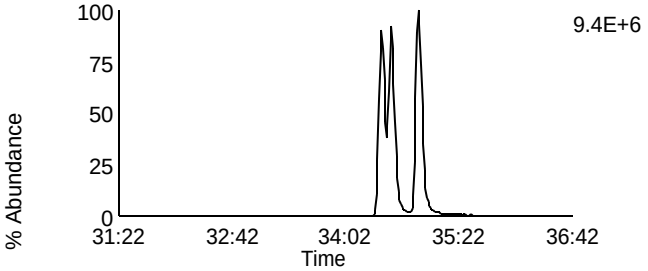

Data File: F131107A_06 G3 C11 - 445.7555
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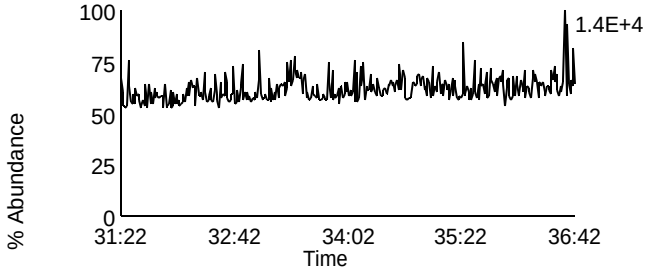

Data File: F131107A_06 G3 C3 - 380.976
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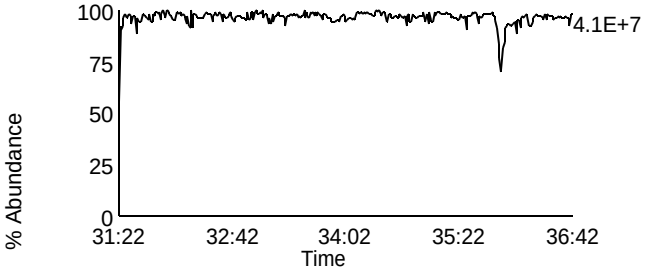
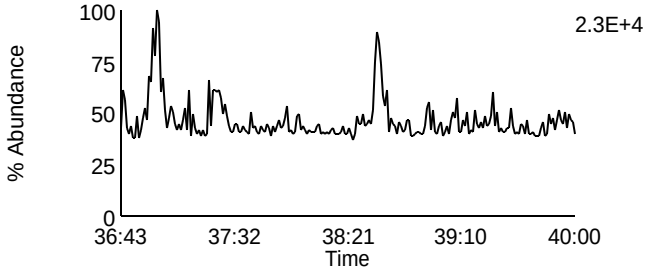


Homologue Group: Heptas

Data File Name: F131107A_06
Date Acquired: 11/7/2013
Sample Description: BLANK BLANK-38307 - SMT

Lab Sample ID: BLANK-38307
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131107A_06 G4 C3 - 407.7818
BLANK BLANK-38307 - SMT



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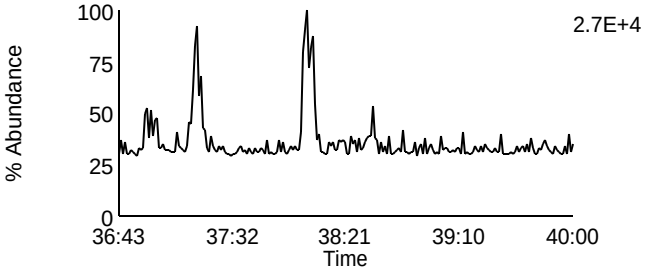

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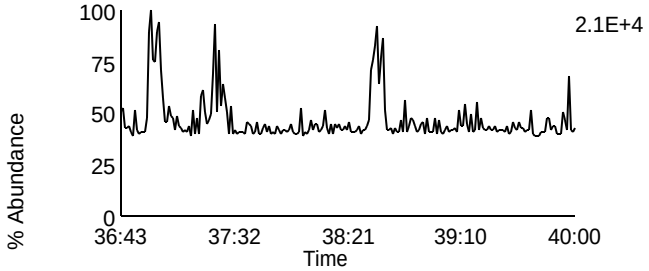

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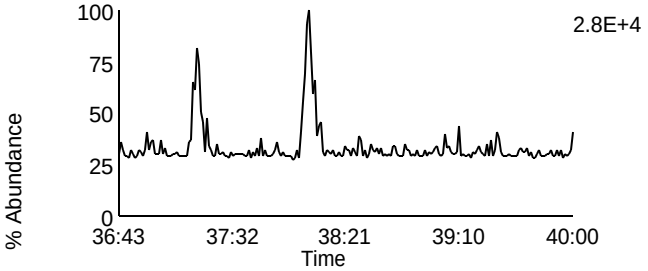

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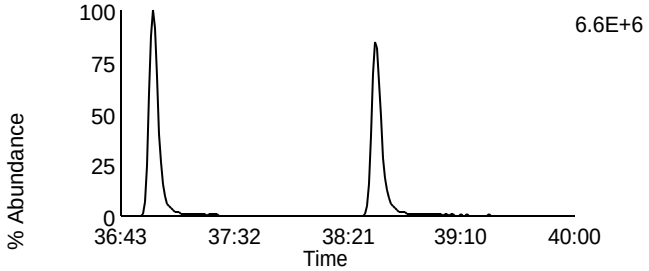

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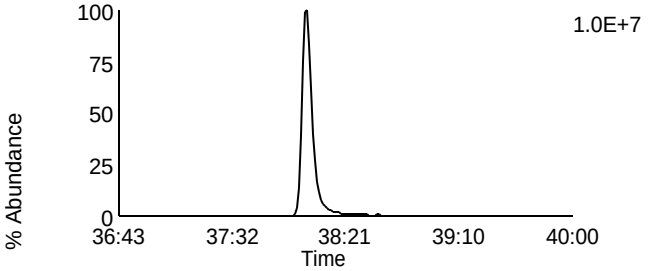
BLANK BLANK-38307 - SMT



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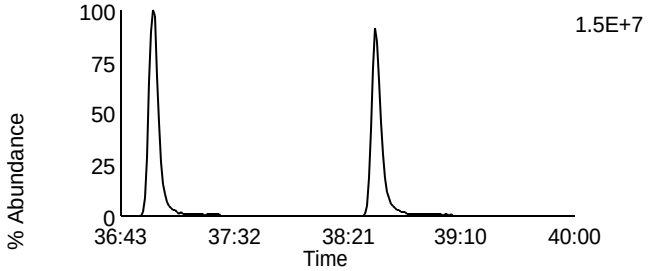

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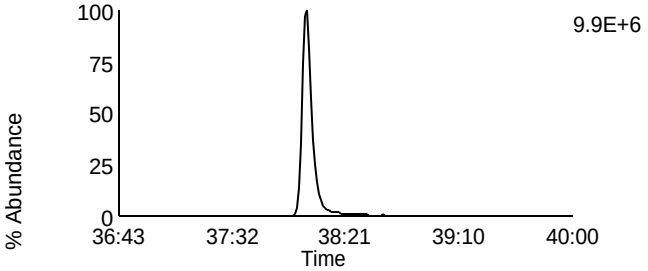

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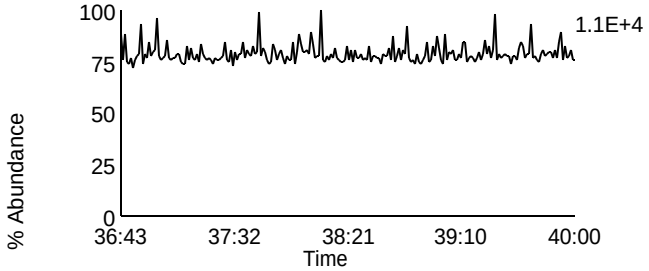
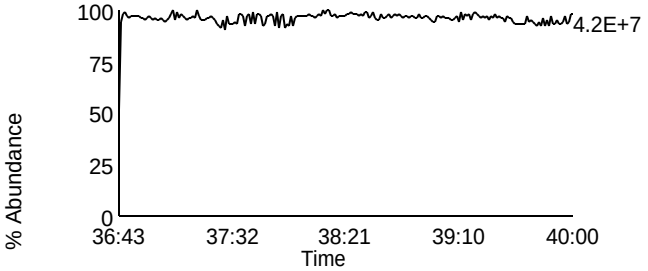


Data File: F131107A_06 G4 C1 - 380.976
BLANK BLANK-38307 - SMT

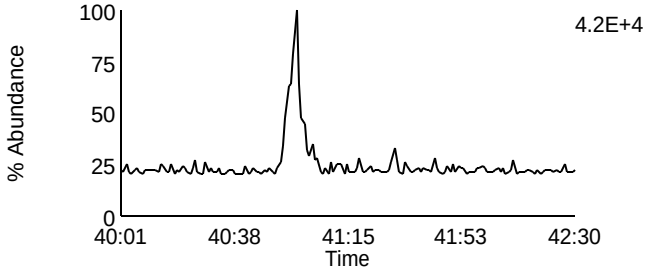


Homologue Group: Octas

Data File Name: F131107A_06
Date Acquired: 11/7/2013
Sample Description: BLANK BLANK-38307 - SMT

Lab Sample ID: BLANK-38307
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F131107A_06 G5 C4 - 441.7428
BLANK BLANK-38307 - SMT



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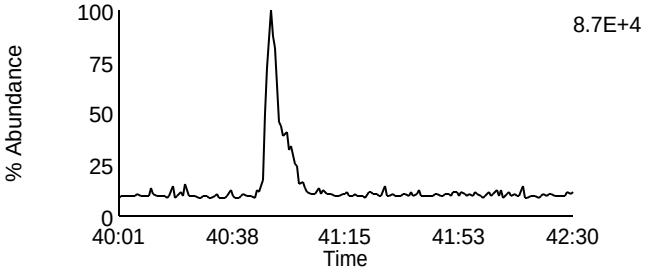

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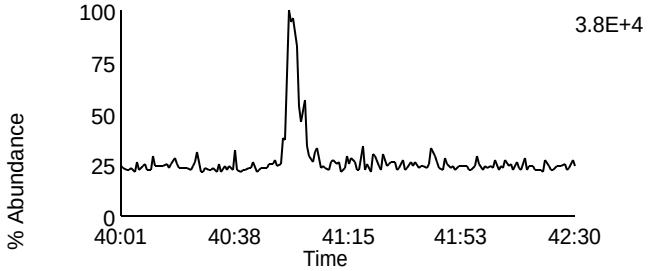

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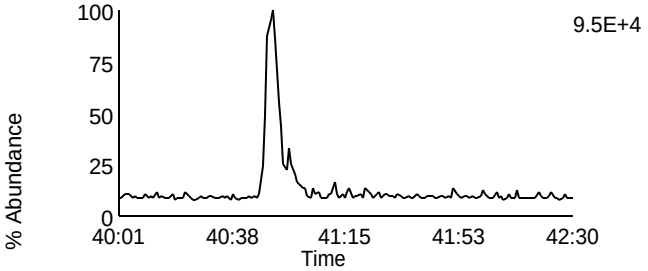

Data File: F131107A_06 G5 C11 - 469.7779
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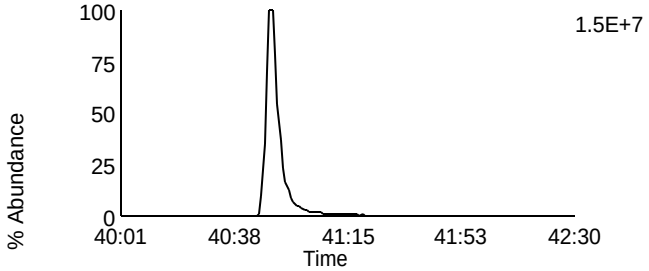

Data File: F131107A_06 G5 C11 - 469.7779
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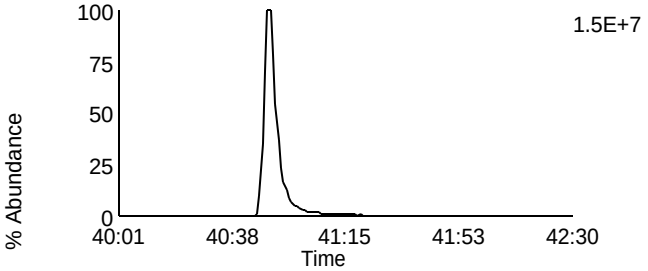

Data File: F131107A_06 G5 C12 - 471.7749
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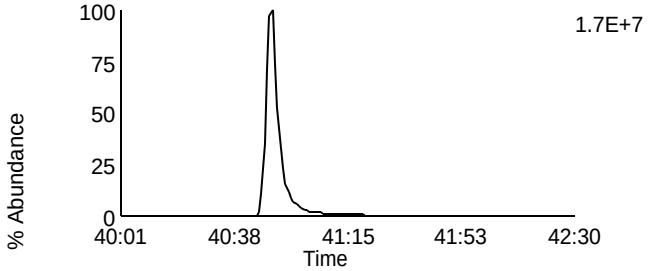

Data File: F131107A_06 G5 C12 - 471.7749
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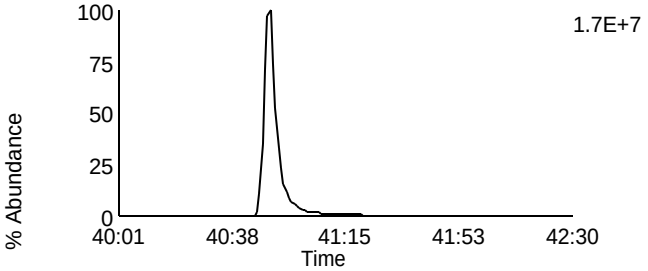
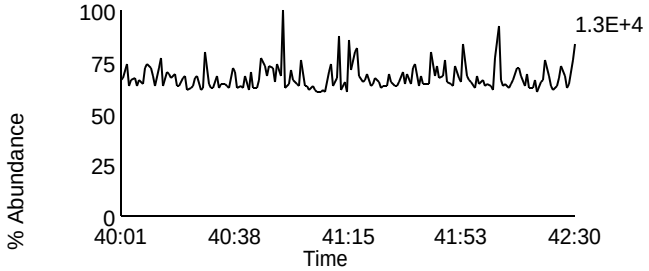


Data File: F131107A_06 G5 C13 - 513.6775
BLANK BLANK-38307 - SMT



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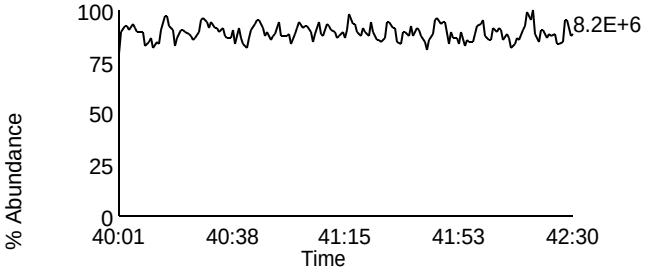
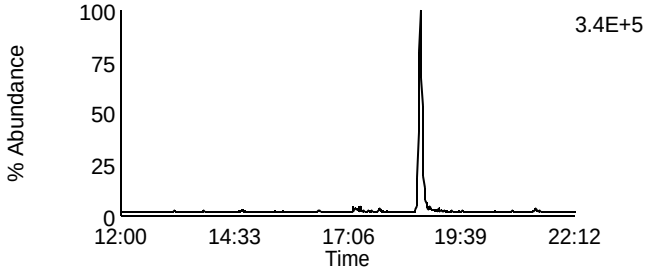


Homologue Group: Tetras

Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

Data File: U131108A_04 G1 C1 - 303.9016
LCS LCS-38308 - BAL



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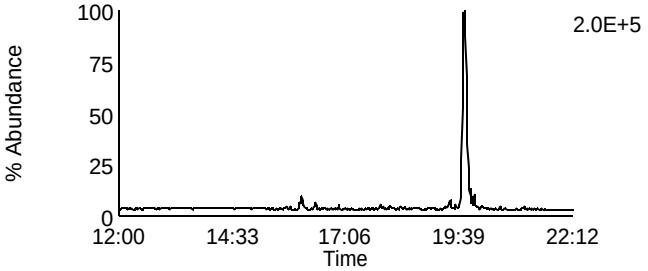
LCS LCS-38308 - BAL



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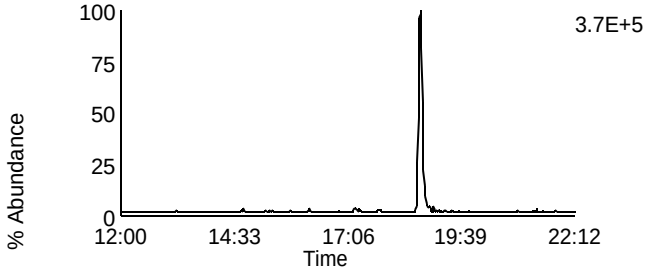
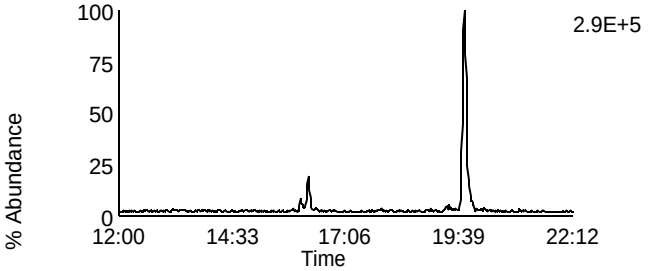
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C8 - 321.8936
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C3 - 315.9418
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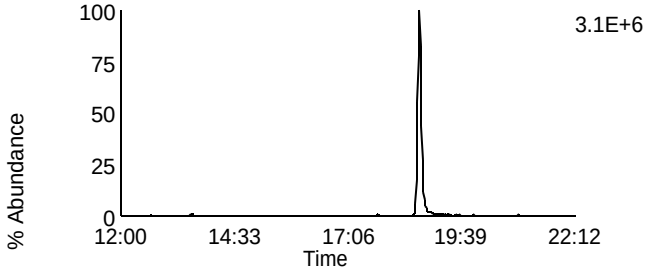
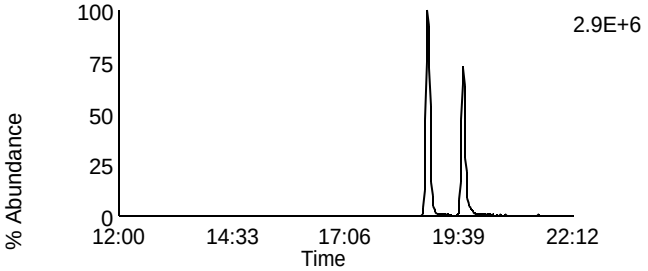
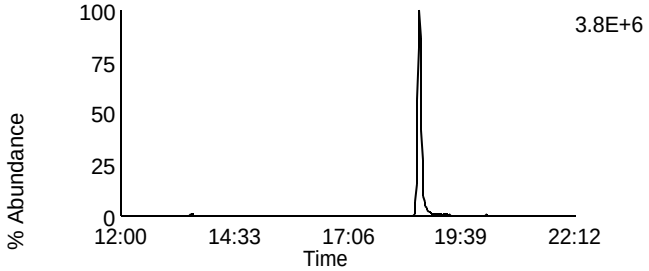


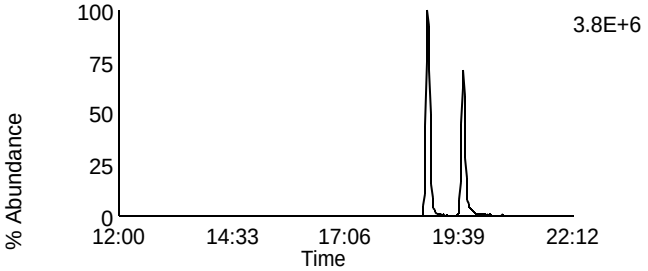
Data File: U131108A_04 G1 C10 - 331.9367
LCS LCS-38308 - BAL



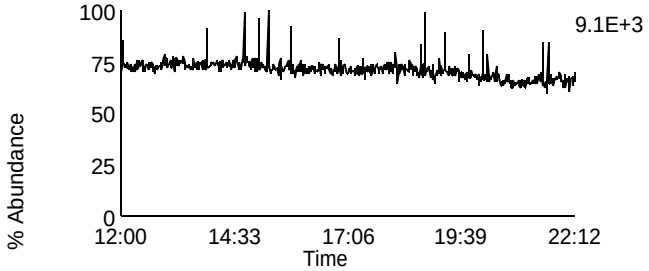
Data File: U131108A_04 G1 C4 - 317.9389
LCS LCS-38308 - BAL



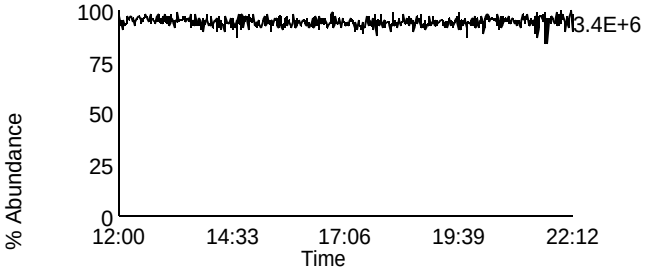
Data File: U131108A_04 G1 C11 - 333.9338
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C14 - 375.8364
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C5 - 318.9792
LCS LCS-38308 - BAL

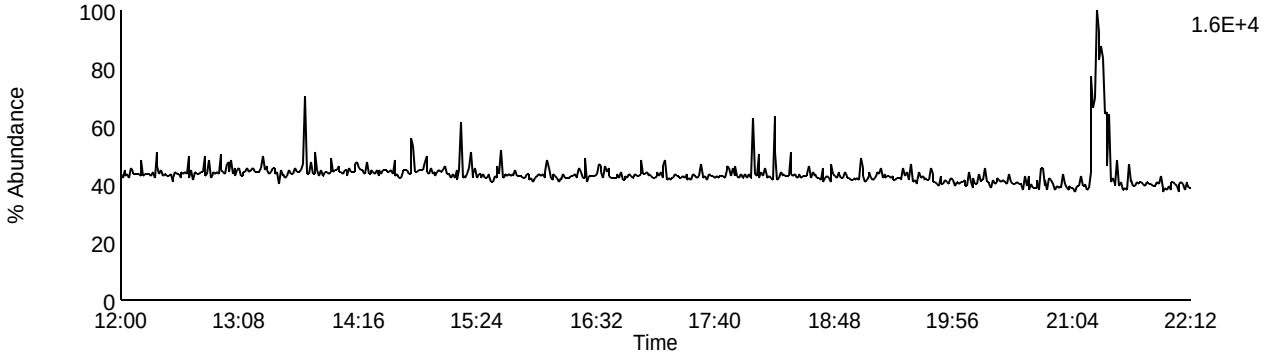


Homologue Group: Penta & Cleanup

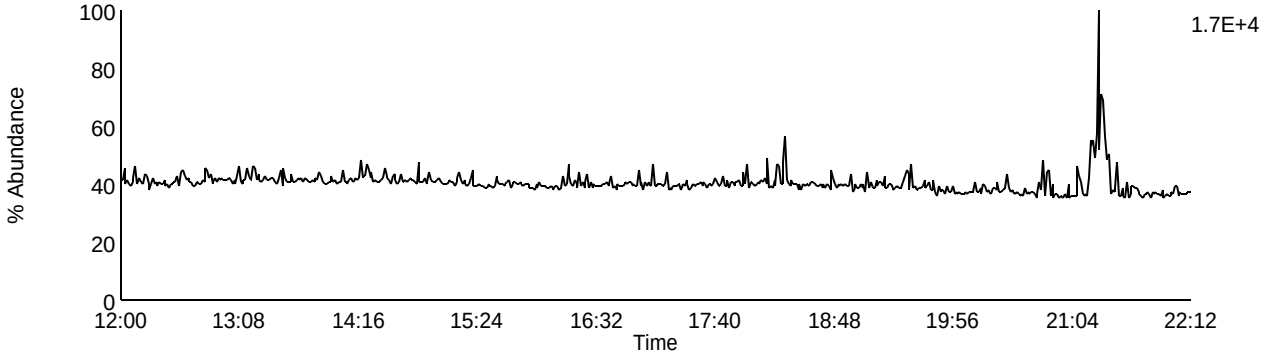
Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

Data File: U131108A_04 G1 C12 - 339.8597
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C13 - 341.8567
LCS LCS-38308 - BAL



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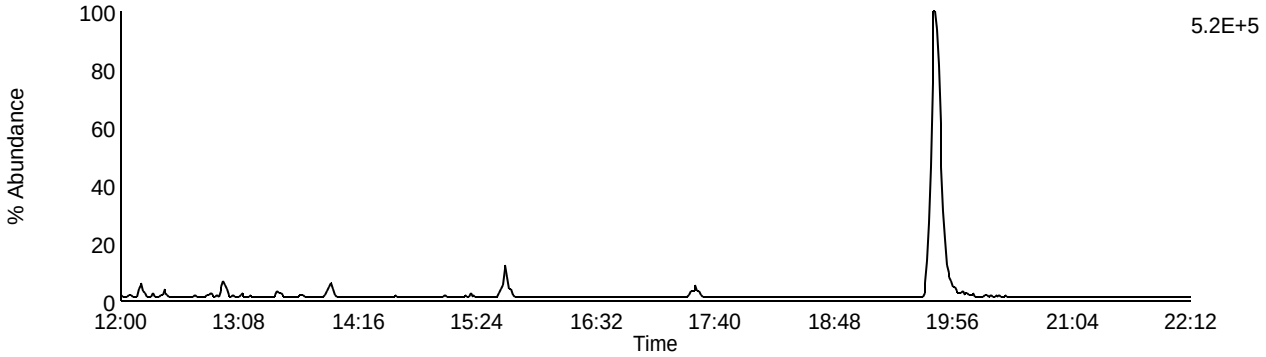
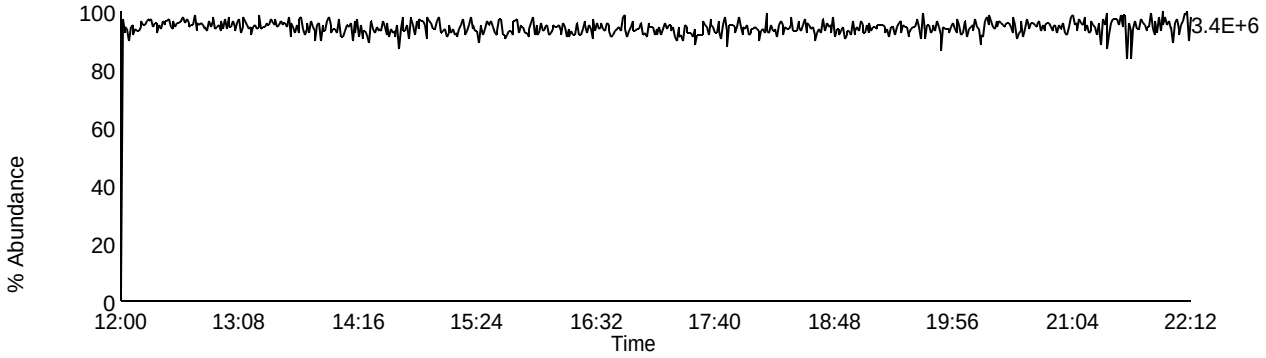
LCS LCS-38308 - BAL



Data File: U131108A_04 G1 C5 - 318.9792
LCS LCS-38308 - BAL

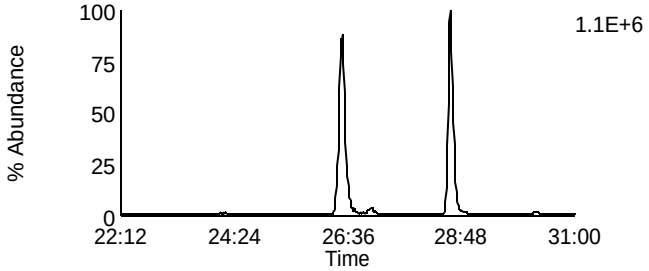


Homologue Group: Pentas

Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

Data File: U131108A_04 G2 C1 - 339.8597
LCS LCS-38308 - BAL



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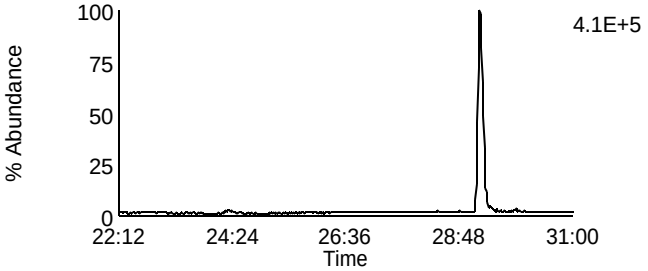
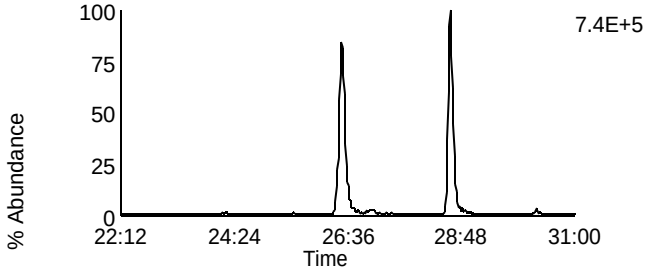
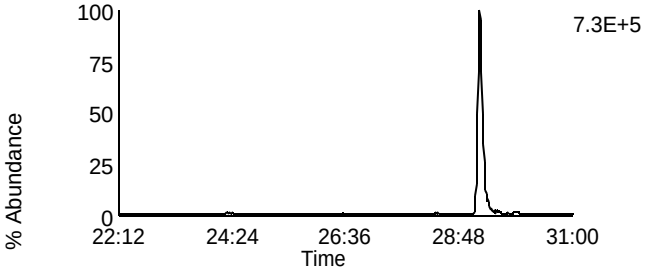
LCS LCS-38308 - BAL



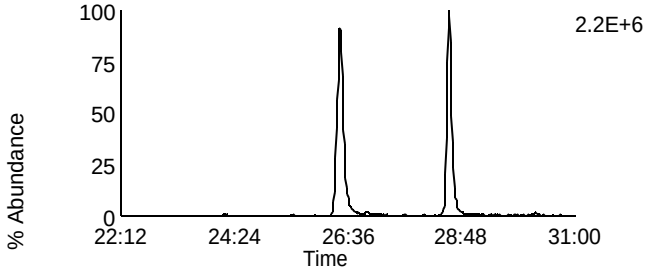
Data File: U131108A_04 G2 C2 - 341.8567
LCS LCS-38308 - BAL



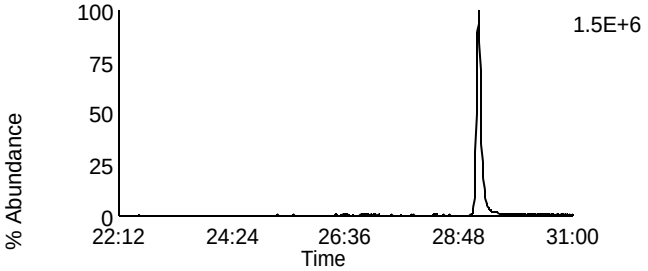
Data File: U131108A_04 G2 C8 - 355.8546
LCS LCS-38308 - BAL



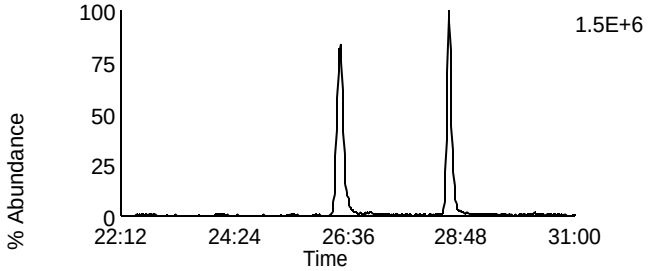
Data File: U131108A_04 G2 C3 - 351.8999
LCS LCS-38308 - BAL



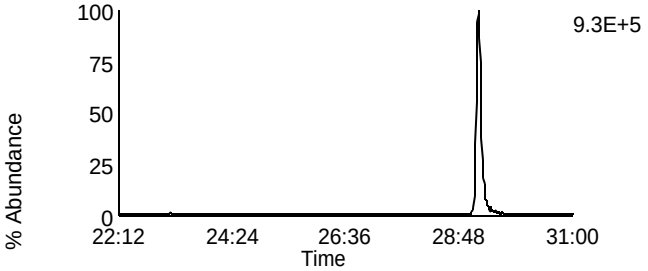
Data File: U131108A_04 G2 C10 - 367.8948
LCS LCS-38308 - BAL



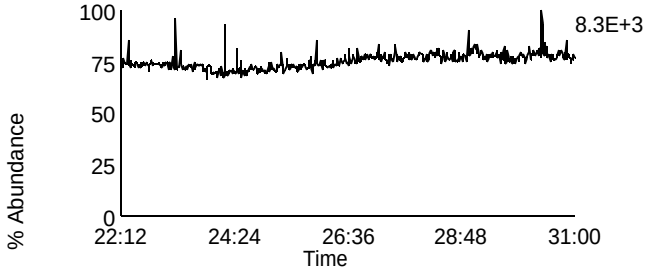
Data File: U131108A_04 G2 C5 - 353.8969
LCS LCS-38308 - BAL



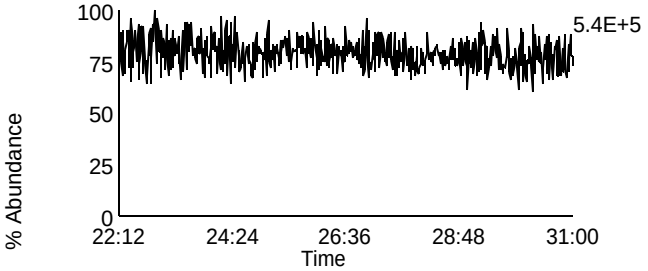
Data File: U131108A_04 G2 C11 - 369.8918
LCS LCS-38308 - BAL



Data File: U131108A_04 G2 C12 - 409.7974
LCS LCS-38308 - BAL



Data File: U131108A_04 G2 C6 - 354.9792
LCS LCS-38308 - BAL

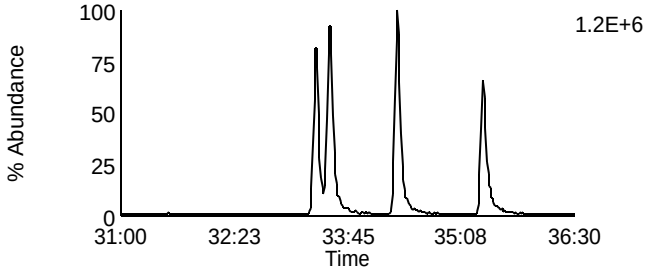


Homologue Group: Hexas

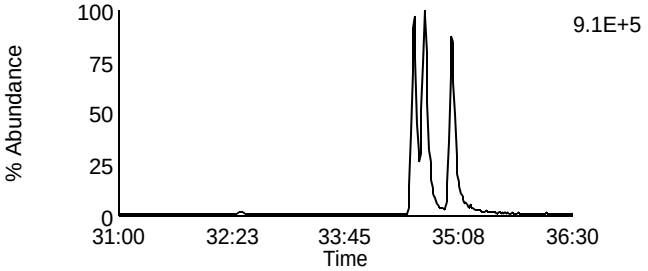
Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

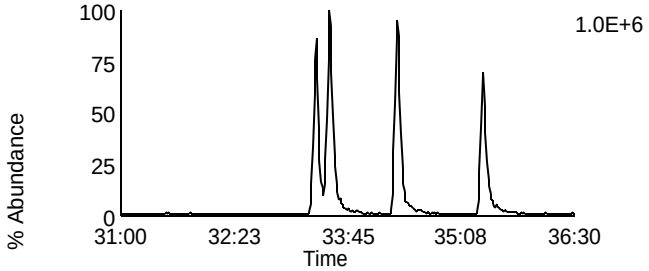
Data File: U131108A_04 G3 C1 - 373.8207
LCS LCS-38308 - BAL



Data File: U131108A_04 G3 C7 - 389.8156
LCS LCS-38308 - BAL



Data File: U131108A_04 G3 C2 - 375.8178
LCS LCS-38308 - BAL



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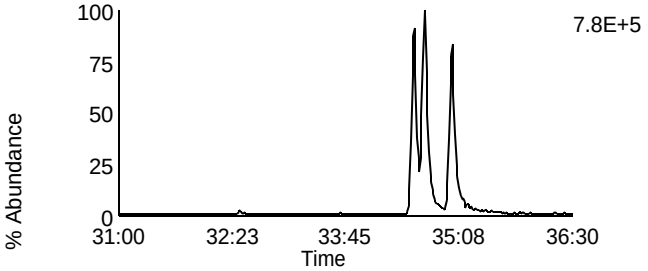
LCS LCS-38308 - BAL



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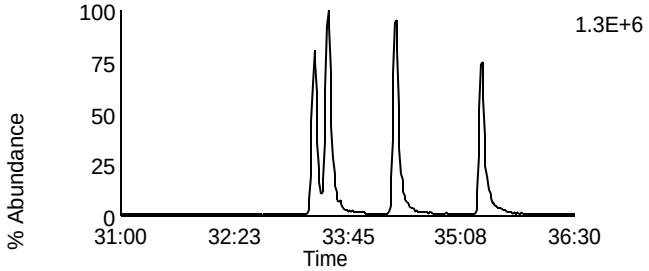
LCS LCS-38308 - BAL



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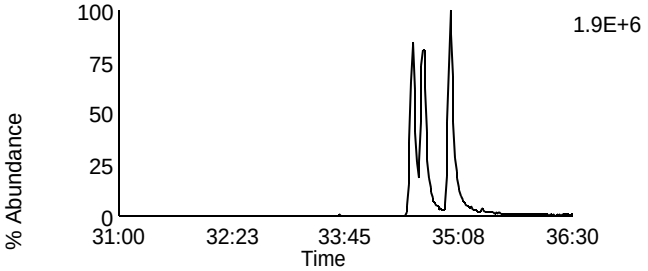
LCS LCS-38308 - BAL



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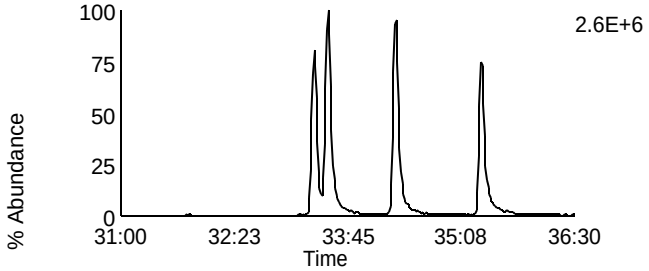
LCS LCS-38308 - BAL



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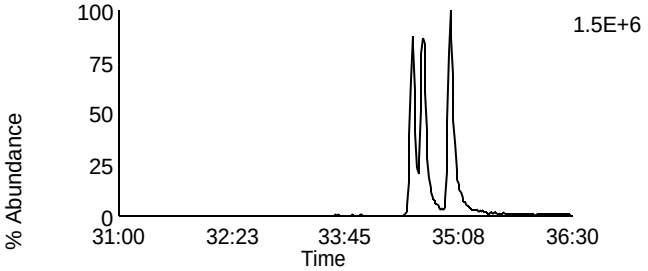
LCS LCS-38308 - BAL



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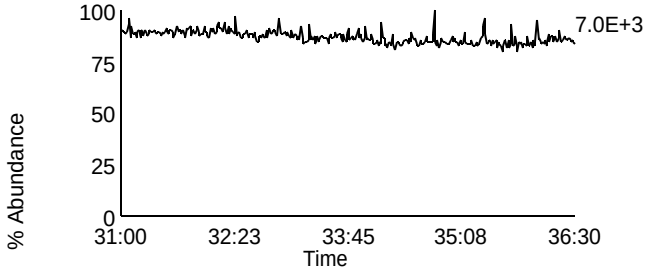
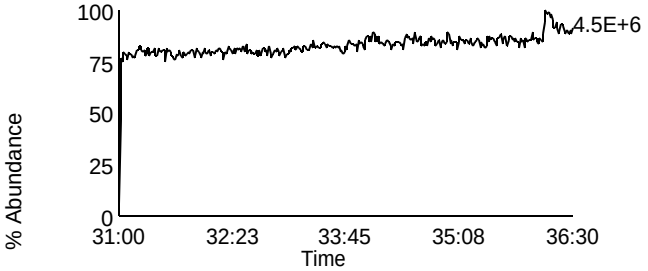
LCS LCS-38308 - BAL



Data File: U131108A_04 G3 C3 - 380.976
LCS LCS-38308 - BAL

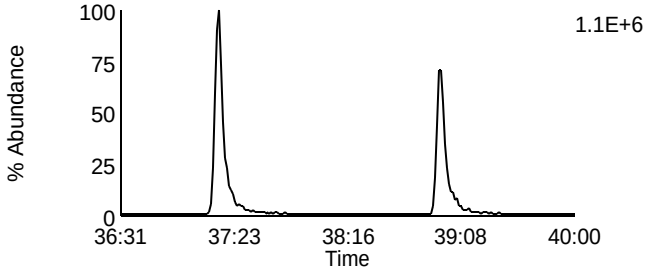


Homologue Group: Heptas

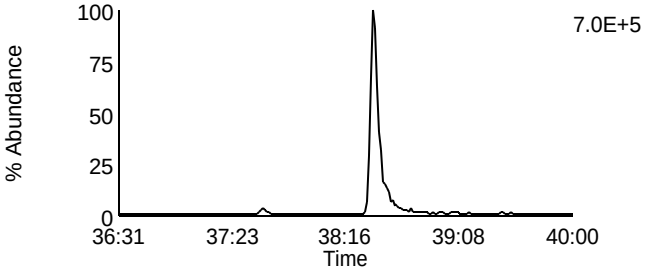
Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

Data File: U131108A_04 G4 C3 - 407.7818
LCS LCS-38308 - BAL



Data File: U131108A_04 G4 C8 - 423.7767
LCS LCS-38308 - BAL



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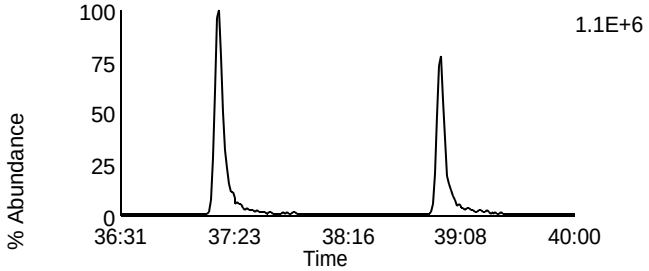
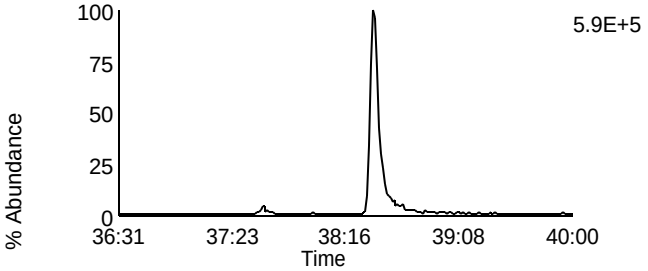
LCS LCS-38308 - BAL



Data File: U131108A_04 G4 C9 - 425.7737
LCS LCS-38308 - BAL



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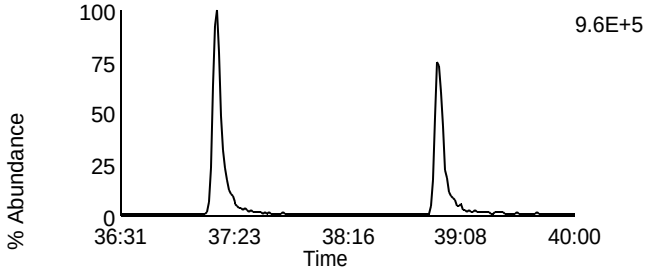
LCS LCS-38308 - BAL



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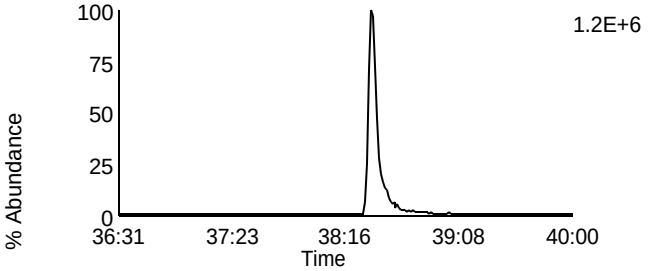
LCS LCS-38308 - BAL



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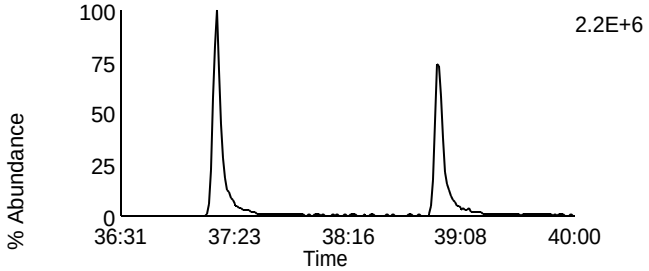
LCS LCS-38308 - BAL



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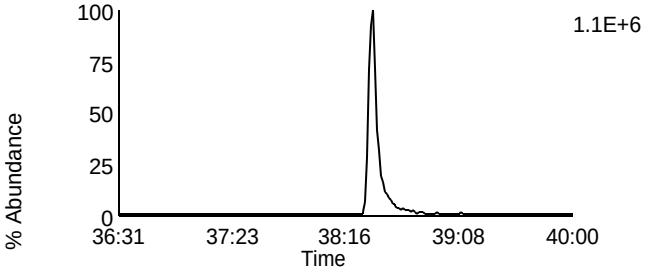
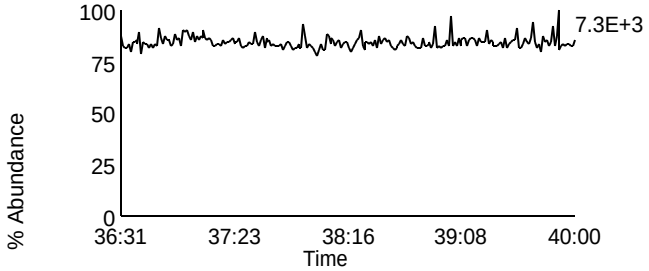
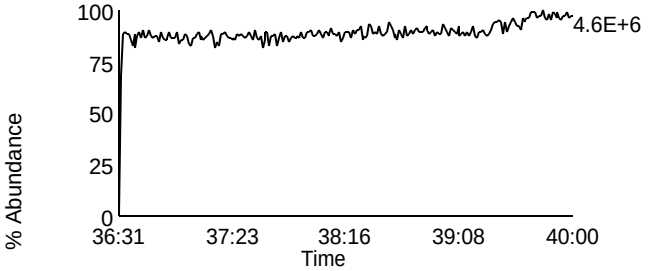
LCS LCS-38308 - BAL



Data File: U131108A_04 G4 C13 - 479.7165
LCS LCS-38308 - BAL



Data File: U131108A_04 G4 C1 - 380.976
LCS LCS-38308 - BAL

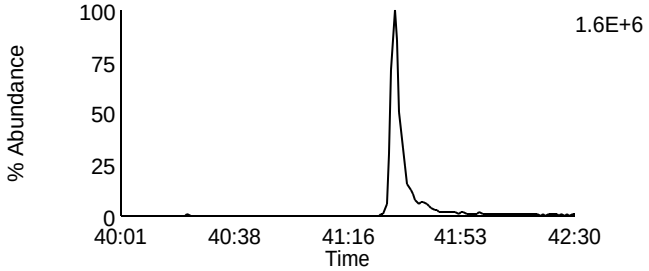


Homologue Group: Octas

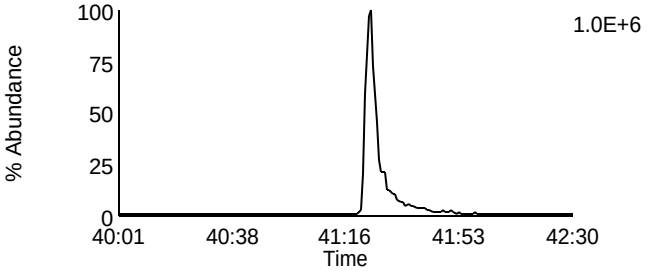
Data File Name: U131108A_04
Date Acquired: 11/8/2013
Sample Description: LCS LCS-38308 - BAL

Lab Sample ID: LCS-38308
Client Sample ID: LCSSV
Instrument: 10MSHR06 (U)

Data File: U131108A_04 G5 C4 - 441.7428
LCS LCS-38308 - BAL



Data File: U131108A_04 G5 C8 - 457.7377
LCS LCS-38308 - BAL



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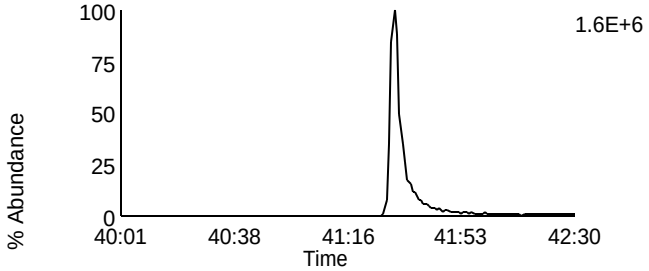
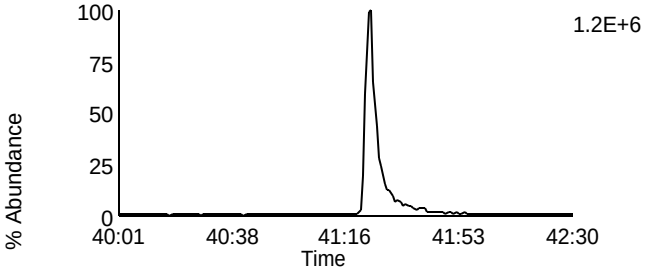
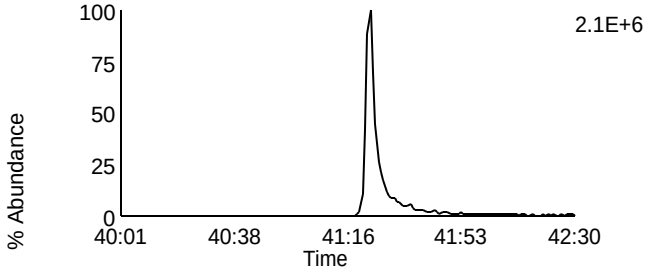
LCS LCS-38308 - BAL



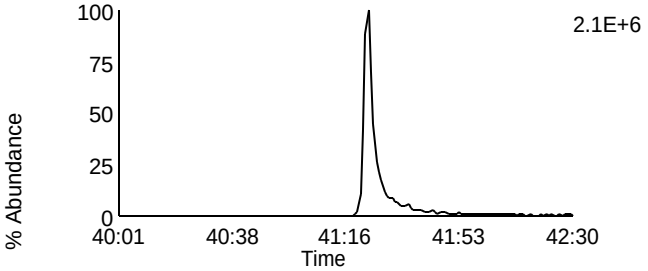
Data File: U131108A_04 G5 C9 - 459.7347
LCS LCS-38308 - BAL



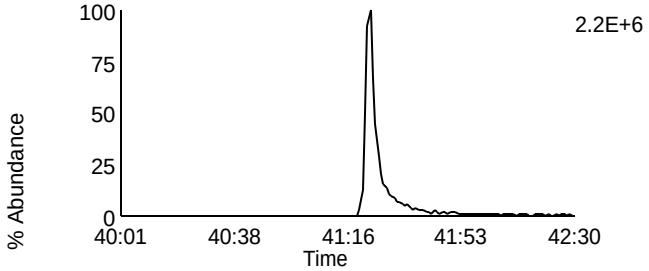
Data File: U131108A_04 G5 C11 - 469.7779
LCS LCS-38308 - BAL



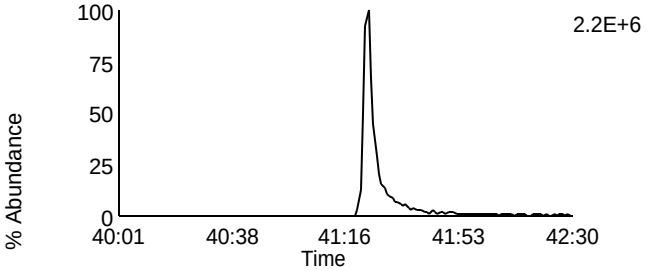
Data File: U131108A_04 G5 C11 - 469.7779
LCS LCS-38308 - BAL



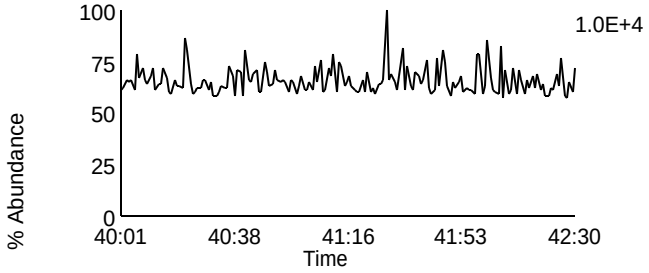
Data File: U131108A_04 G5 C12 - 471.7749
LCS LCS-38308 - BAL



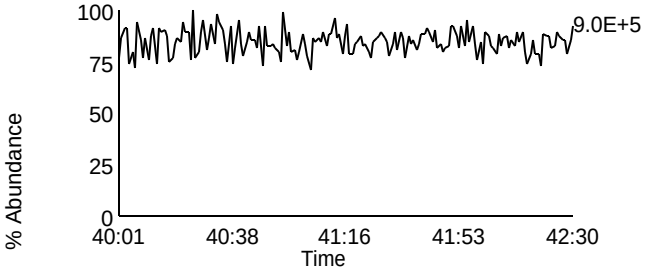
Data File: U131108A_04 G5 C12 - 471.7749
LCS LCS-38308 - BAL



Data File: U131108A_04 G5 C13 - 513.6775
LCS LCS-38308 - BAL



Data File: U131108A_04 G5 C2 - 430.9728
LCS LCS-38308 - BAL

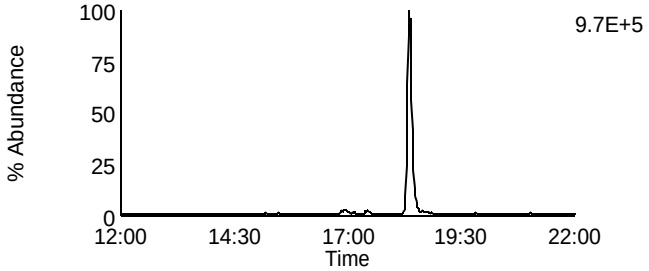


Homologue Group: Tetras

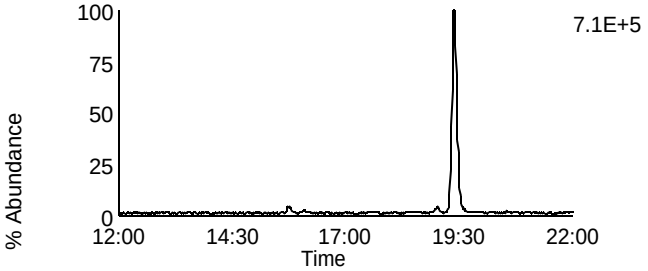
Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

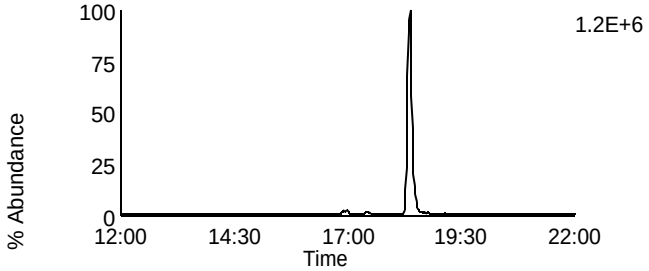
Data File: F131107A_03 G1 C1 - 303.9016
SAMP 10247063016-MS - SMT PASI-WI



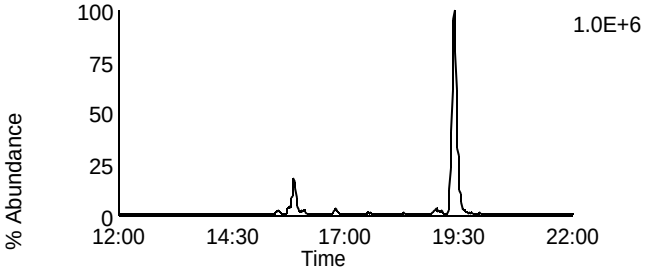
Data File: F131107A_03 G1 C7 - 319.8965
SAMP 10247063016-MS - SMT PASI-WI



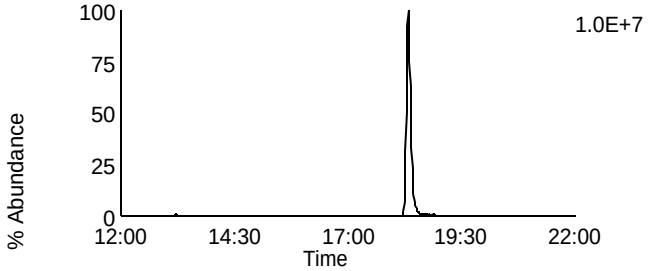
Data File: F131107A_03 G1 C2 - 305.8987
SAMP 10247063016-MS - SMT PASI-WI



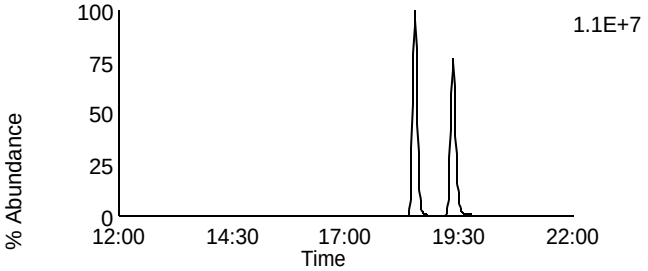
Data File: F131107A_03 G1 C8 - 321.8936
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C3 - 315.9418
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C10 - 331.9367
SAMP 10247063016-MS - SMT PASI-WI



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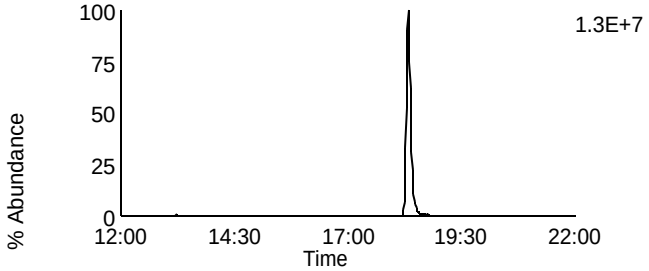
SAMP 10247063016-MS - SMT PASI-WI



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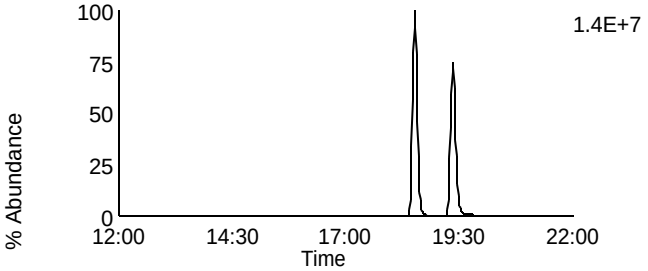
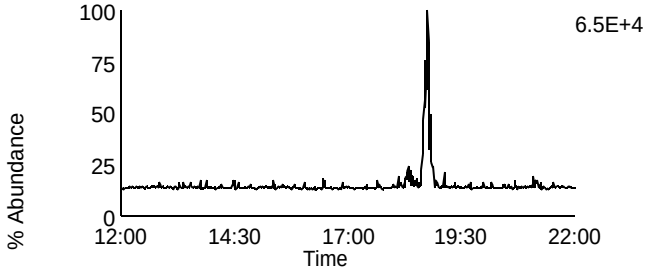
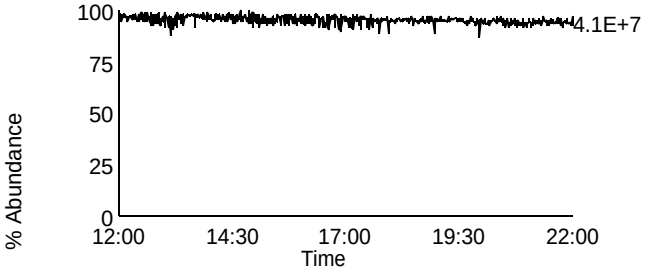
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C14 - 375.8364
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C5 - 318.9792
SAMP 10247063016-MS - SMT PASI-WI

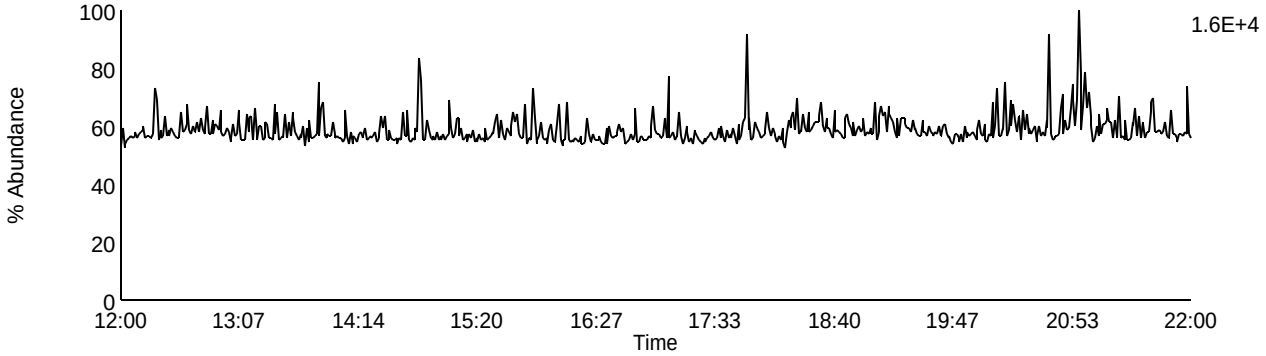


Homologue Group: Penta & Cleanup

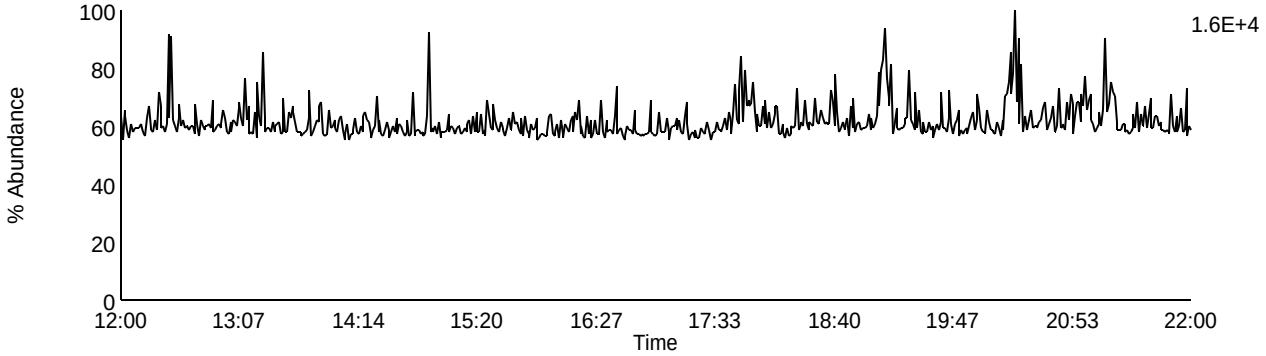
Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

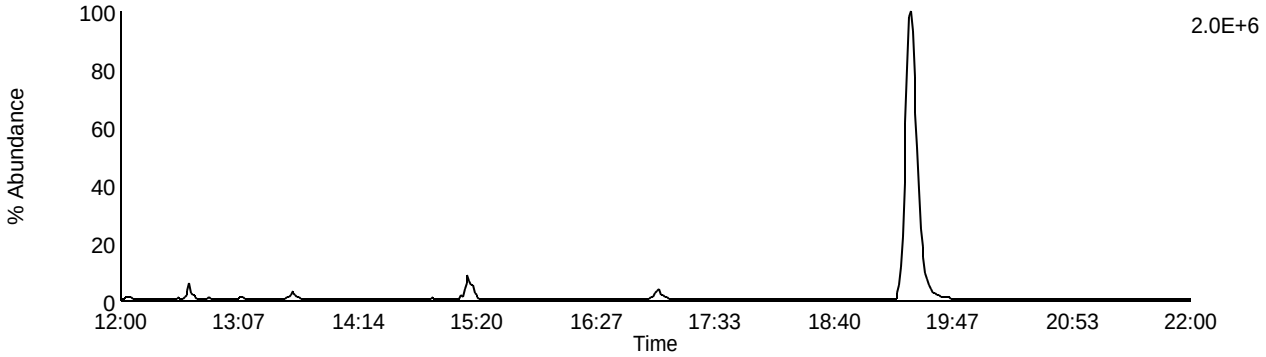
Data File: F131107A_03 G1 C12 - 339.8597
SAMP 10247063016-MS - SMT PASI-WI



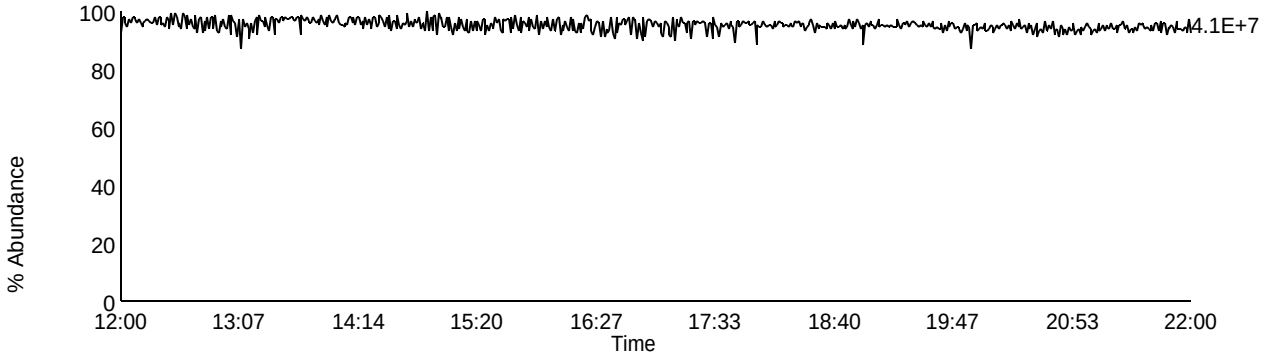
Data File: F131107A_03 G1 C13 - 341.8567
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C9 - 327.8847
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G1 C5 - 318.9792
SAMP 10247063016-MS - SMT PASI-WI

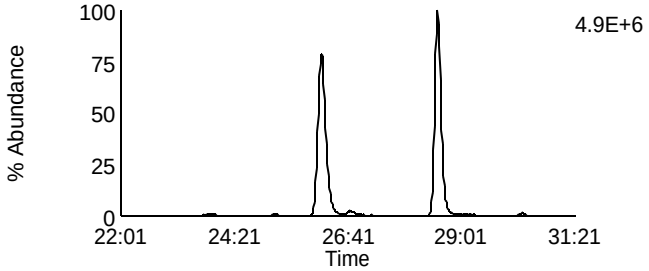


Homologue Group: Pentas

Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

Data File: F131107A_03 G2 C1 - 339.8597
SAMP 10247063016-MS - SMT PASI-WI



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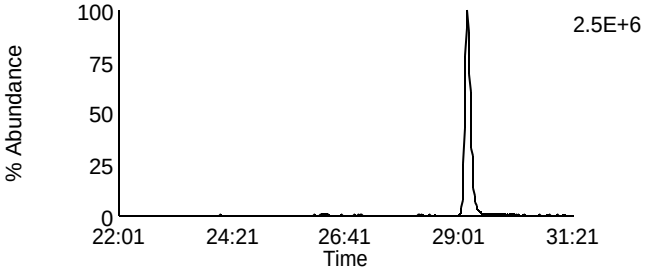
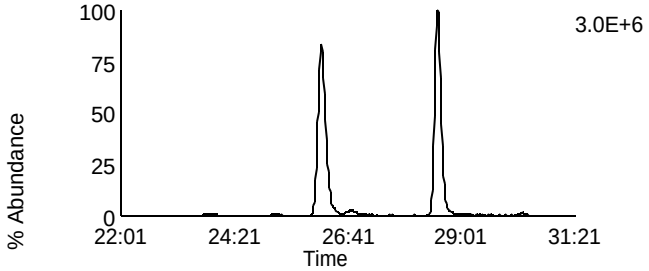
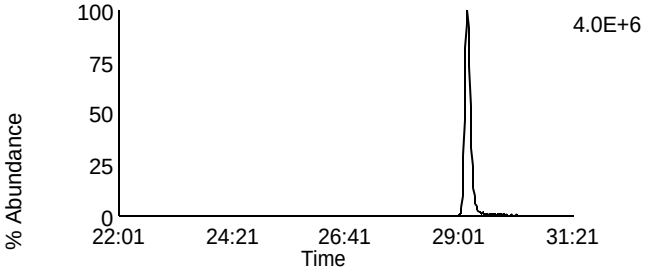
SAMP 10247063016-MS - SMT PASI-WI



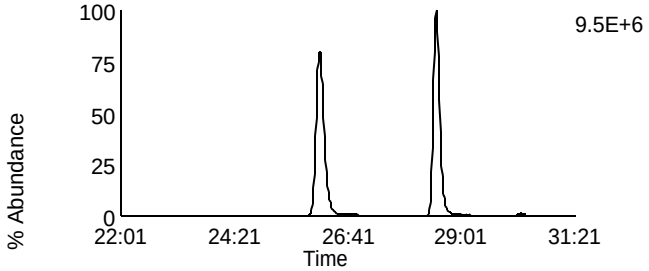
Data File: F131107A_03 G2 C2 - 341.8567
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G2 C8 - 355.8546
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G2 C3 - 351.8999
SAMP 10247063016-MS - SMT PASI-WI



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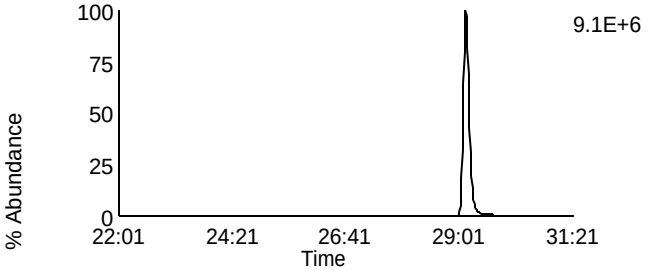
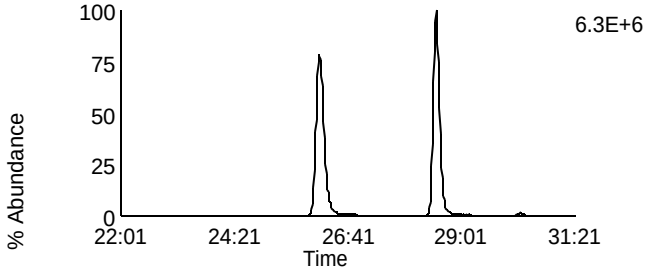
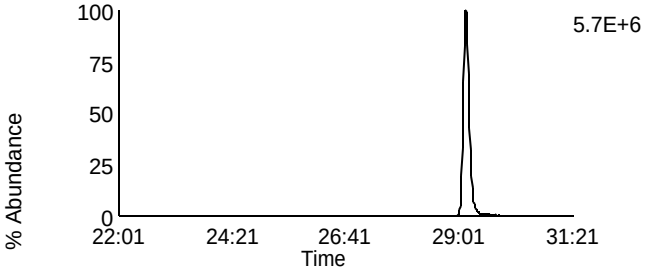
SAMP 10247063016-MS - SMT PASI-WI



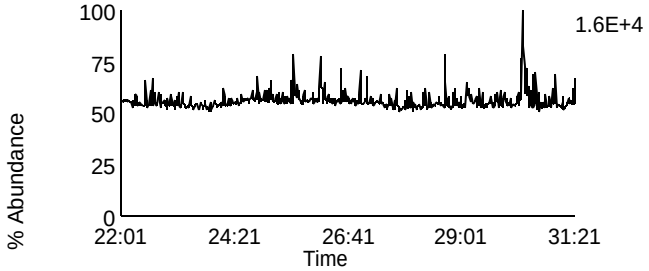
Data File: F131107A_03 G2 C5 - 353.8969
SAMP 10247063016-MS - SMT PASI-WI



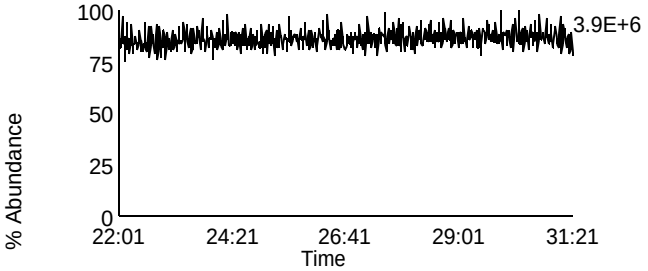
Data File: F131107A_03 G2 C11 - 369.8918
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G2 C12 - 409.7974
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G2 C6 - 354.9792
SAMP 10247063016-MS - SMT PASI-WI

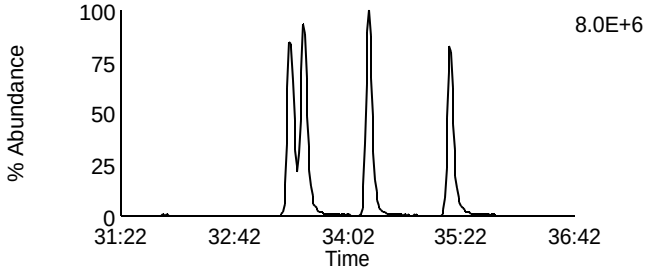


Homologue Group: Hexas

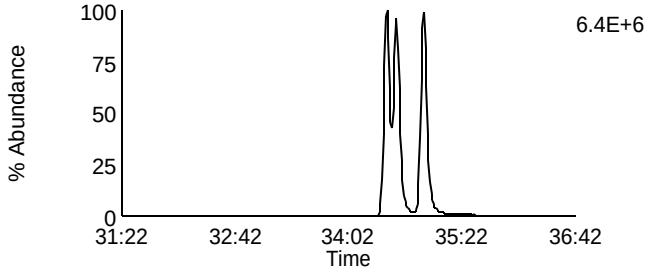
Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

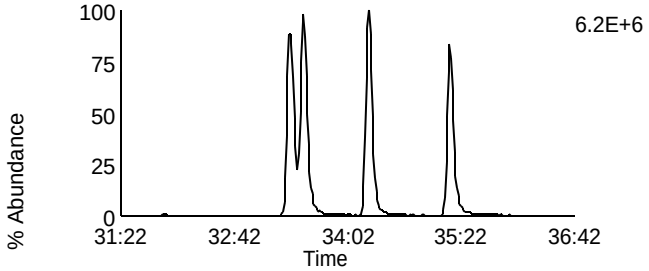
Data File: F131107A_03 G3 C1 - 373.8207
SAMP 10247063016-MS - SMT PASI-WI



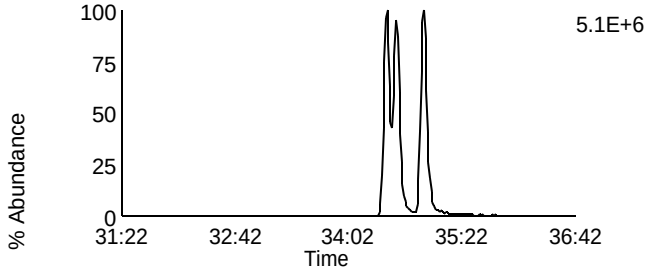
Data File: F131107A_03 G3 C7 - 389.8156
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G3 C2 - 375.8178
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G3 C8 - 391.8127
SAMP 10247063016-MS - SMT PASI-WI



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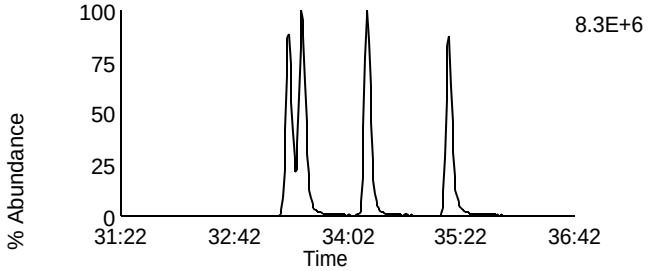
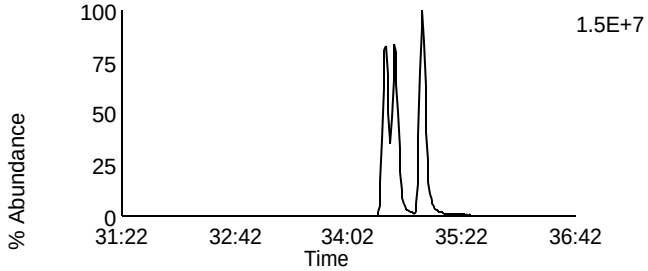
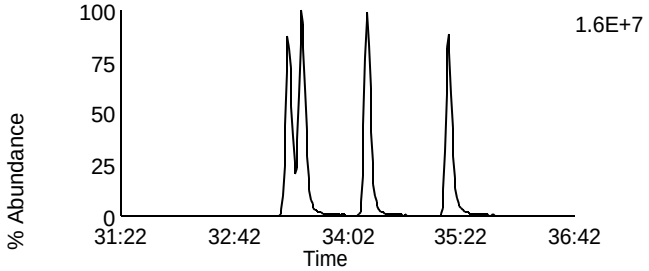
SAMP 10247063016-MS - SMT PASI-WI



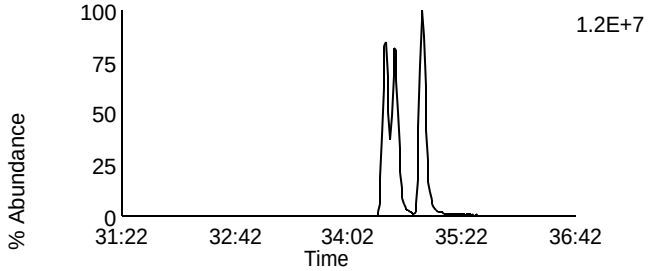
Data File: F131107A_03 G3 C9 - 401.8559
SAMP 10247063016-MS - SMT PASI-WI



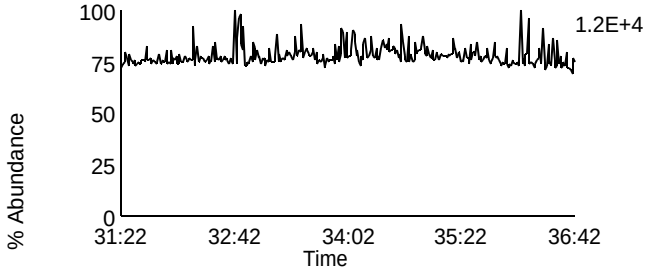
Data File: F131107A_03 G3 C6 - 385.861
SAMP 10247063016-MS - SMT PASI-WI



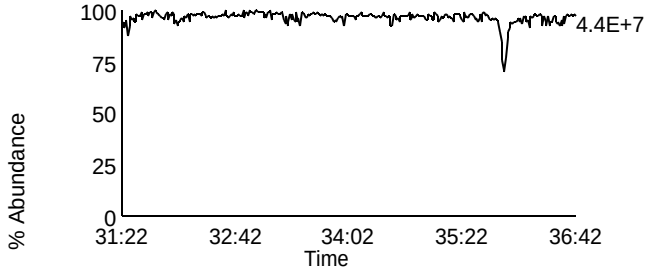
Data File: F131107A_03 G3 C10 - 403.8529
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G3 C11 - 445.7555
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G3 C3 - 380.976
SAMP 10247063016-MS - SMT PASI-WI

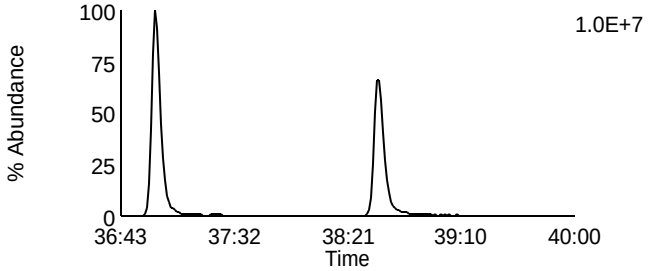


Homologue Group: Heptas

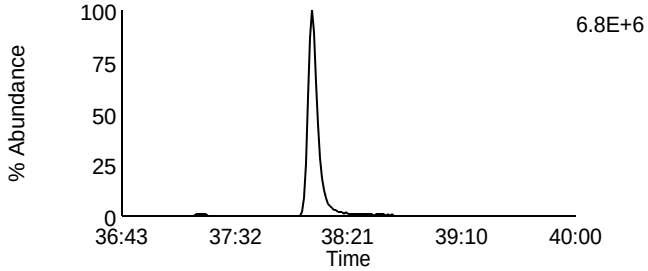
Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

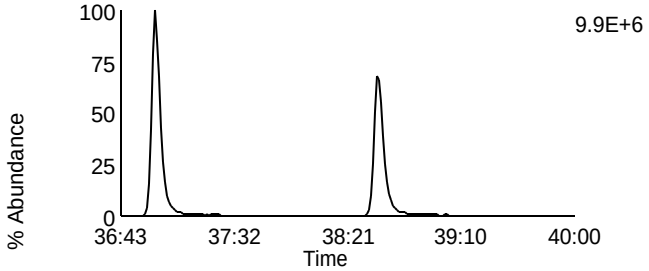
Data File: F131107A_03 G4 C3 - 407.7818
SAMP 10247063016-MS - SMT PASI-WI



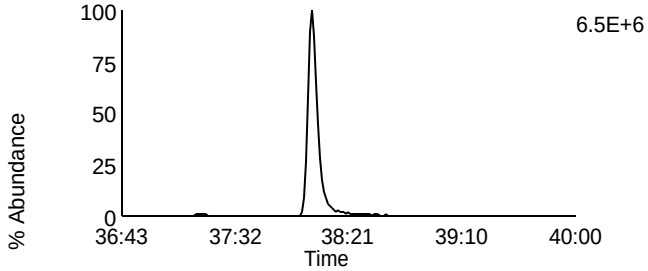
Data File: F131107A_03 G4 C8 - 423.7767
SAMP 10247063016-MS - SMT PASI-WI



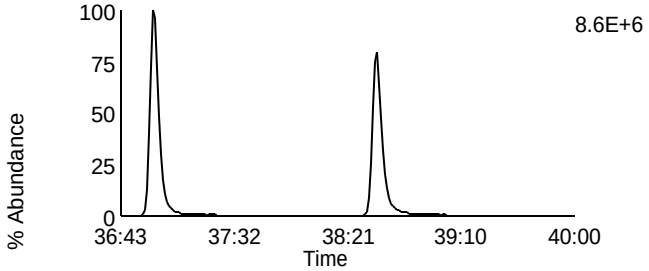
Data File: F131107A_03 G4 C4 - 409.7788
SAMP 10247063016-MS - SMT PASI-WI



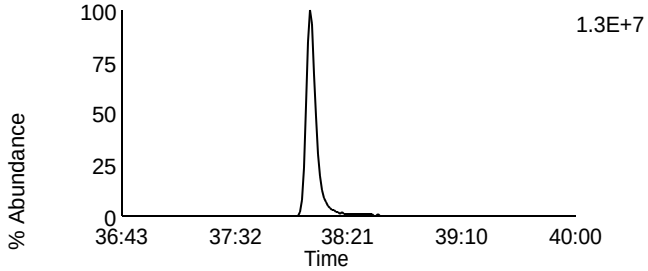
Data File: F131107A_03 G4 C9 - 425.7737
SAMP 10247063016-MS - SMT PASI-WI



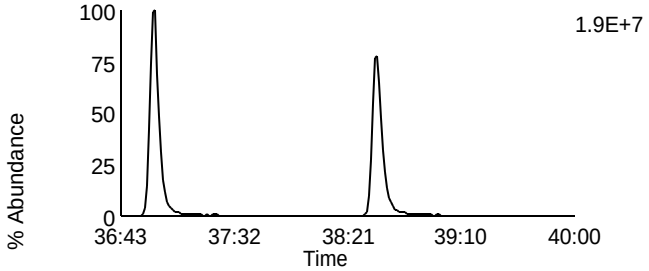
Data File: F131107A_03 G4 C6 - 417.825
SAMP 10247063016-MS - SMT PASI-WI



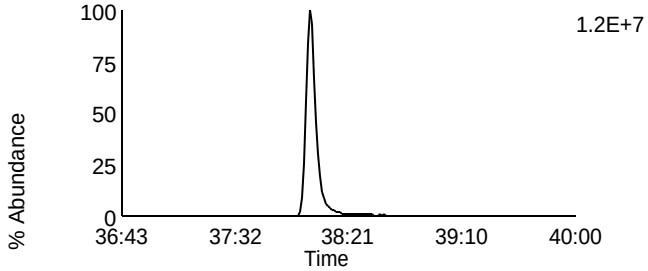
Data File: F131107A_03 G4 C11 - 435.8169
SAMP 10247063016-MS - SMT PASI-WI



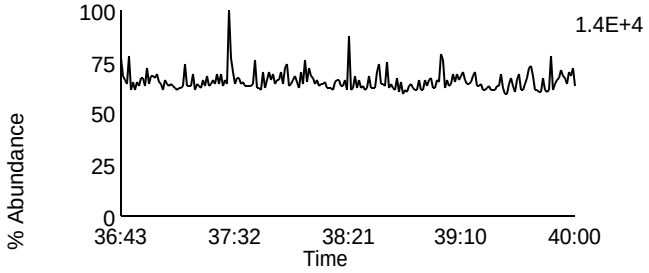
Data File: F131107A_03 G4 C7 - 419.822
SAMP 10247063016-MS - SMT PASI-WI



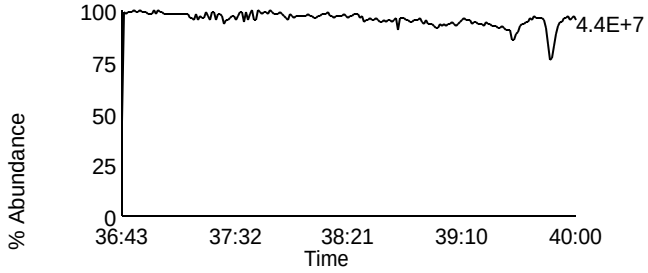
Data File: F131107A_03 G4 C12 - 437.814
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G4 C13 - 479.7165
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G4 C1 - 380.976
SAMP 10247063016-MS - SMT PASI-WI

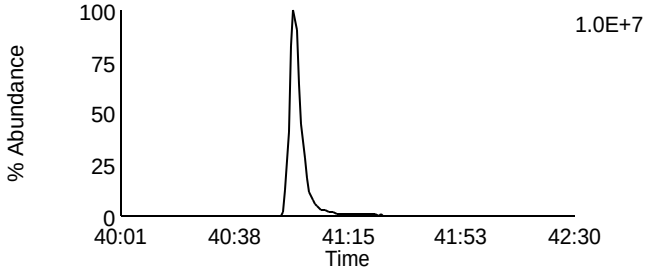


Homologue Group: Octas

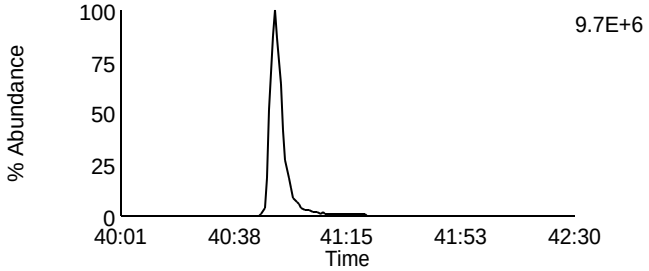
Data File Name: F131107A_03
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MS - SMT PASI-WI

Lab Sample ID: 10247063016-MS
Client Sample ID: MAK024O-MS
Instrument: 10MSHR05 (F)

Data File: F131107A_03 G5 C4 - 441.7428
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G5 C8 - 457.7377
SAMP 10247063016-MS - SMT PASI-WI



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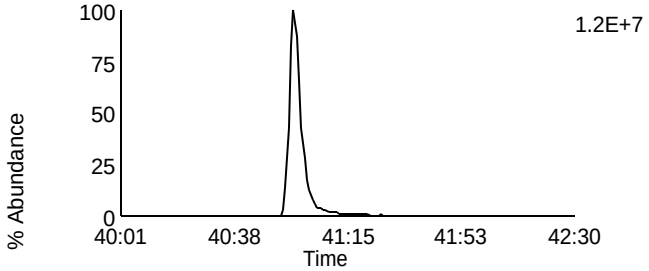
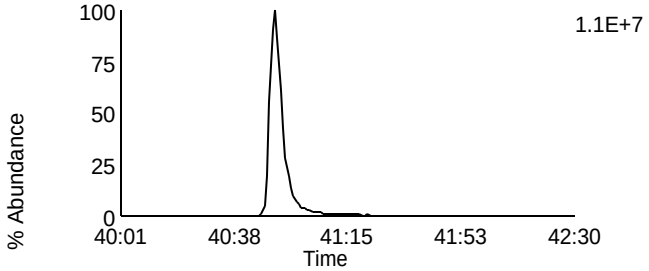
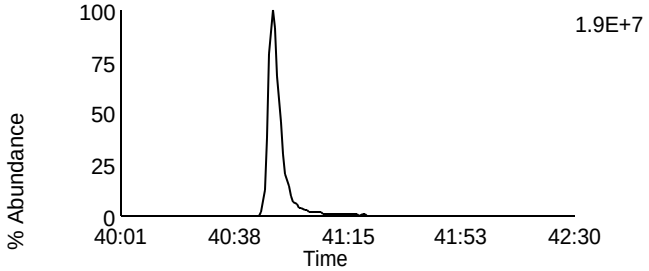
SAMP 10247063016-MS - SMT PASI-WI



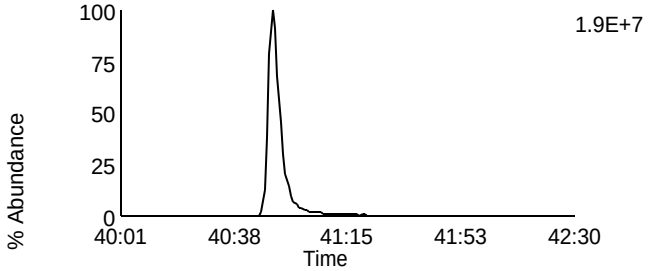
Data File: F131107A_03 G5 C9 - 459.7347
SAMP 10247063016-MS - SMT PASI-WI



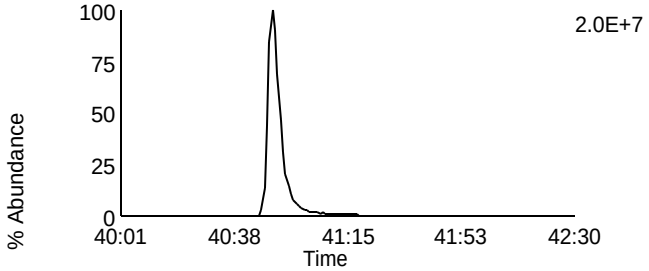
Data File: F131107A_03 G5 C11 - 469.7779
SAMP 10247063016-MS - SMT PASI-WI



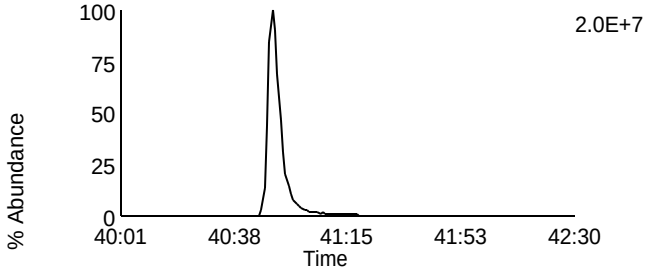
Data File: F131107A_03 G5 C11 - 469.7779
SAMP 10247063016-MS - SMT PASI-WI



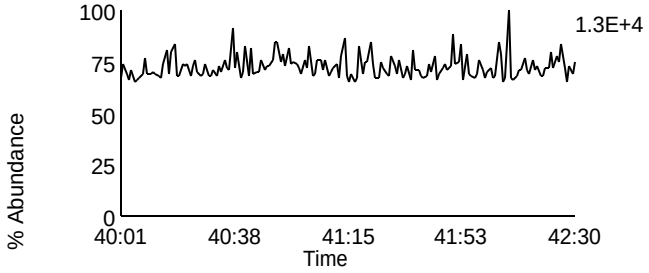
Data File: F131107A_03 G5 C12 - 471.7749
SAMP 10247063016-MS - SMT PASI-WI



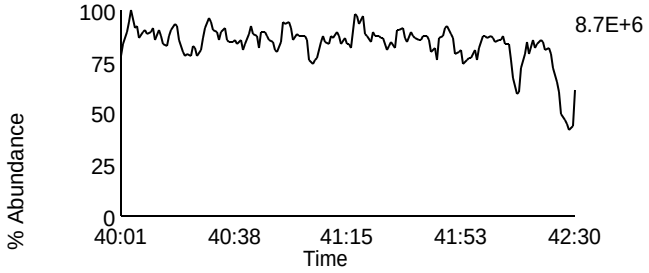
Data File: F131107A_03 G5 C12 - 471.7749
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G5 C13 - 513.6775
SAMP 10247063016-MS - SMT PASI-WI



Data File: F131107A_03 G5 C2 - 430.9728
SAMP 10247063016-MS - SMT PASI-WI

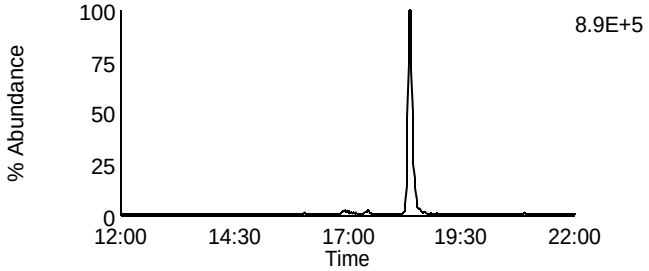


Homologue Group: Tetras

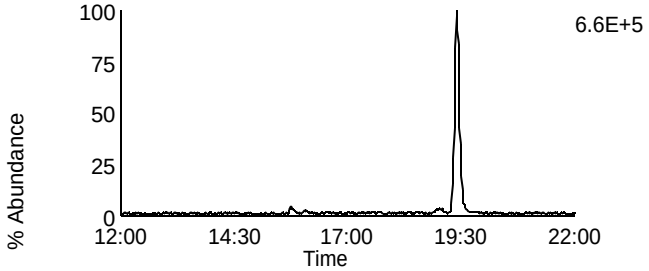
Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

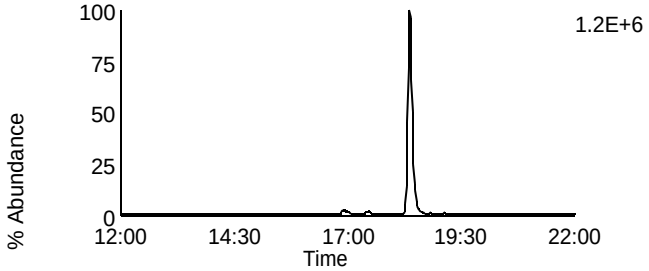
Data File: F131107A_04 G1 C1 - 303.9016
SAMP 10247063016-MSD - SMT PASI-WI



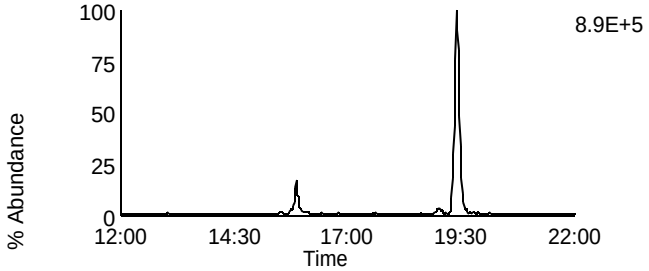
Data File: F131107A_04 G1 C7 - 319.8965
SAMP 10247063016-MSD - SMT PASI-WI



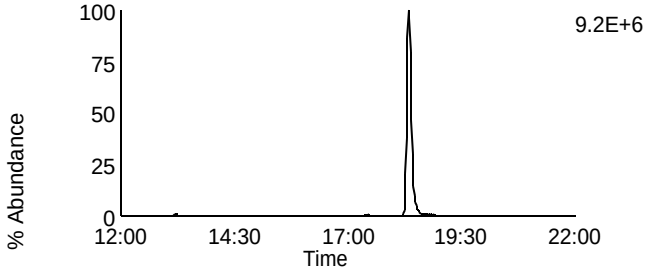
Data File: F131107A_04 G1 C2 - 305.8987
SAMP 10247063016-MSD - SMT PASI-WI



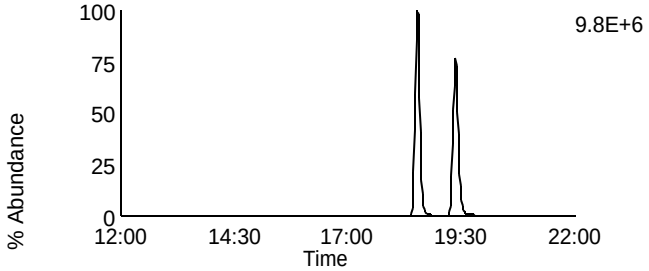
Data File: F131107A_04 G1 C8 - 321.8936
SAMP 10247063016-MSD - SMT PASI-WI



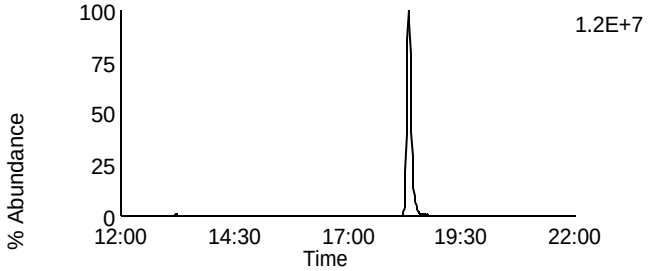
Data File: F131107A_04 G1 C3 - 315.9418
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G1 C10 - 331.9367
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G1 C4 - 317.9389
SAMP 10247063016-MSD - SMT PASI-WI



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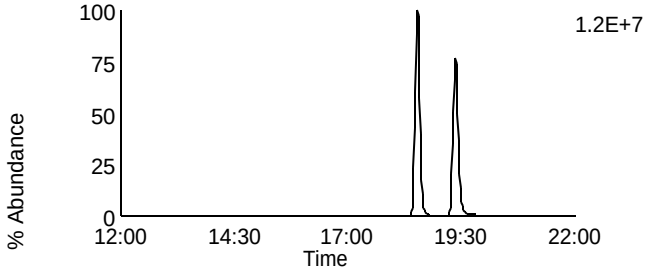
SAMP 10247063016-MSD - SMT PASI-WI



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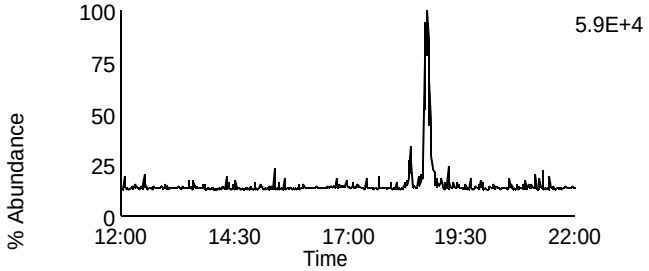
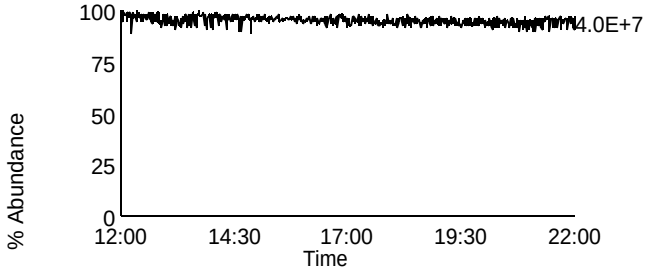
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G1 C5 - 318.9792
SAMP 10247063016-MSD - SMT PASI-WI

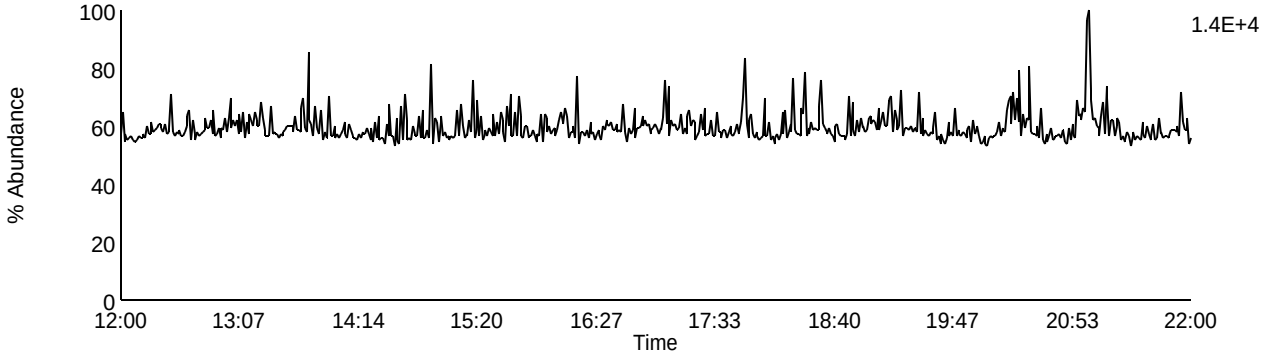


Homologue Group: Penta & Cleanup

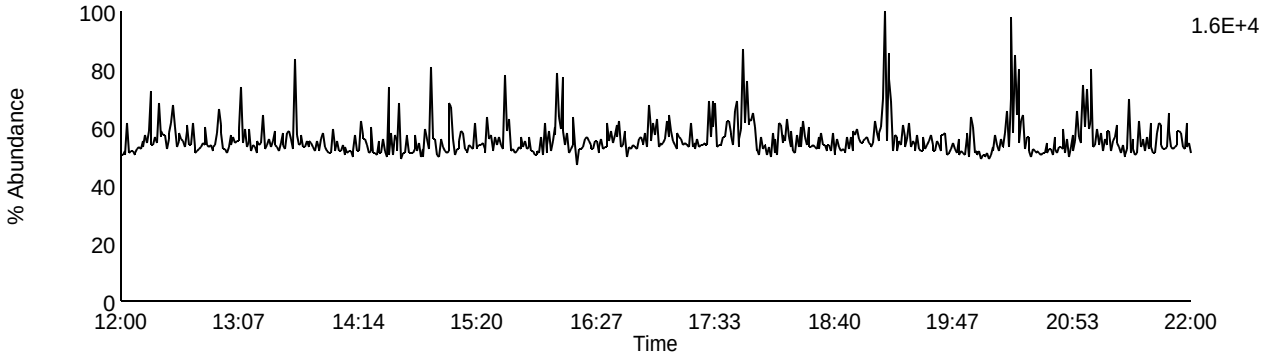
Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

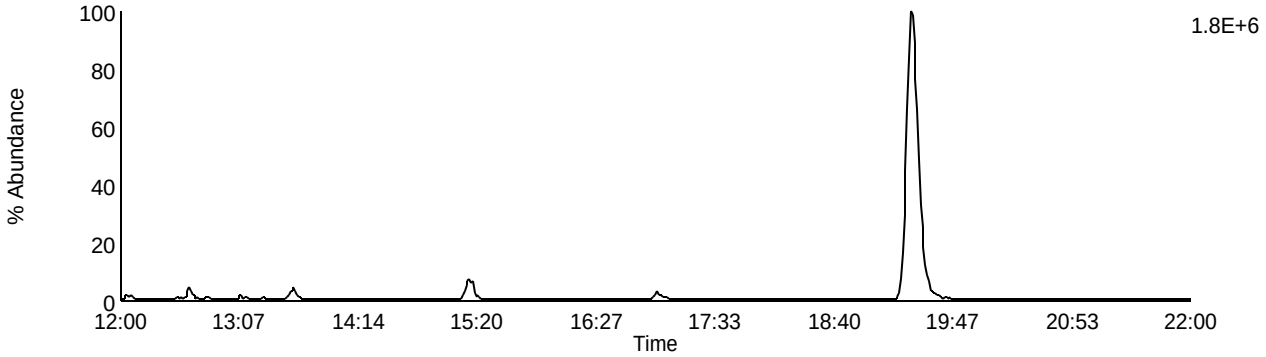
Data File: F131107A_04 G1 C12 - 339.8597
SAMP 10247063016-MSD - SMT PASI-WI



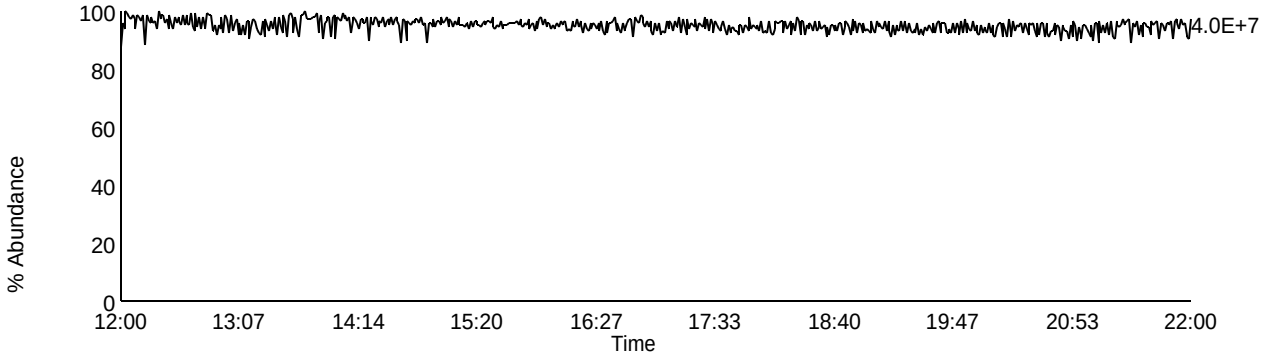
Data File: F131107A_04 G1 C13 - 341.8567
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G1 C9 - 327.8847
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G1 C5 - 318.9792
SAMP 10247063016-MSD - SMT PASI-WI

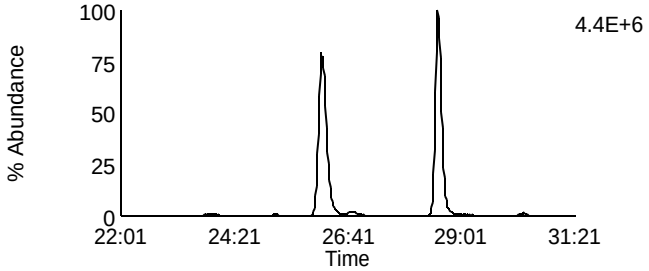


Homologue Group: Pentas

Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

Data File: F131107A_04 G2 C1 - 339.8597
SAMP 10247063016-MSD - SMT PASI-WI



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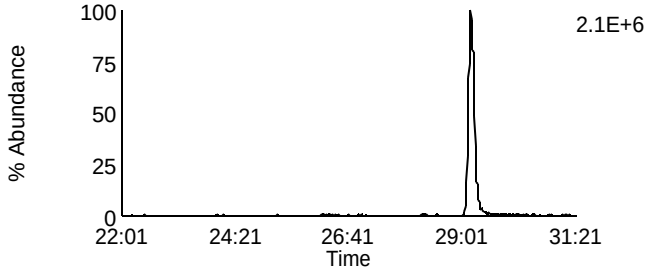
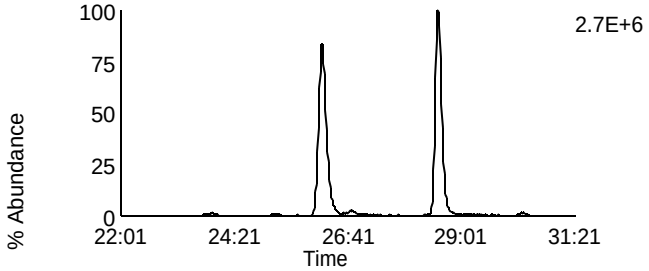
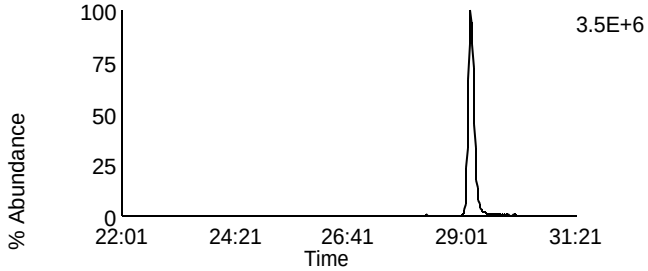
SAMP 10247063016-MSD - SMT PASI-WI



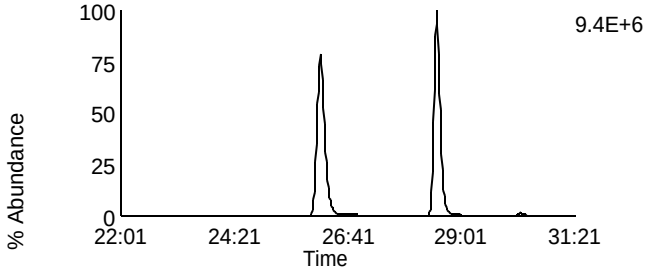
Data File: F131107A_04 G2 C2 - 341.8567
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G2 C8 - 355.8546
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G2 C3 - 351.8999
SAMP 10247063016-MSD - SMT PASI-WI



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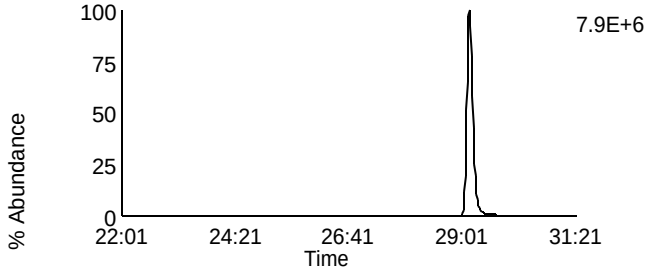
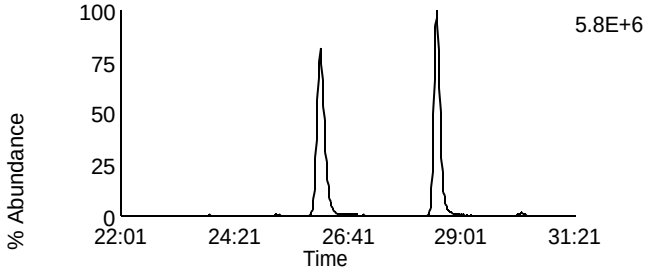
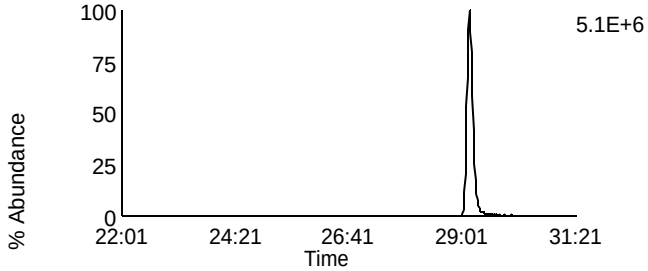
SAMP 10247063016-MSD - SMT PASI-WI



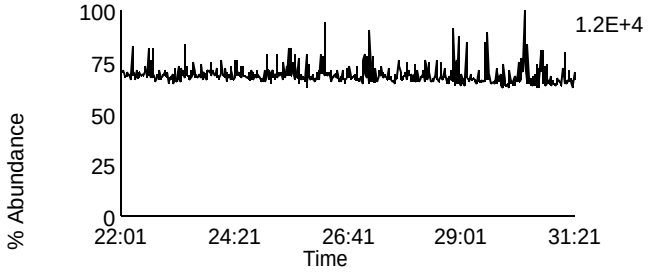
Data File: F131107A_04 G2 C5 - 353.8969
SAMP 10247063016-MSD - SMT PASI-WI



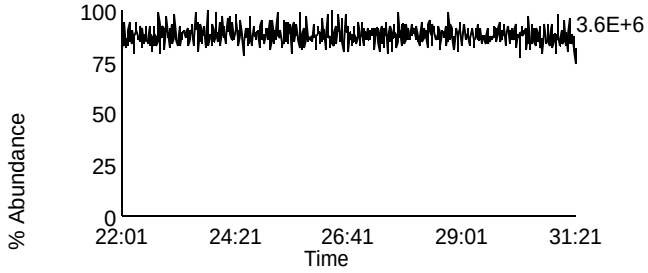
Data File: F131107A_04 G2 C11 - 369.8918
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G2 C12 - 409.7974
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G2 C6 - 354.9792
SAMP 10247063016-MSD - SMT PASI-WI

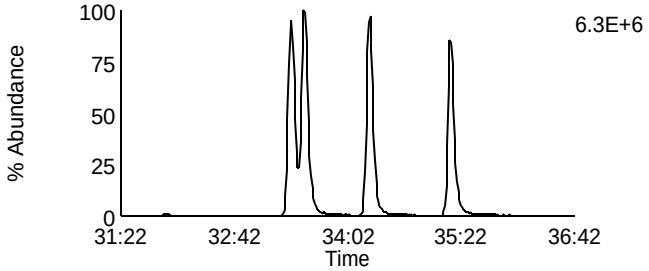


Homologue Group: Hexas

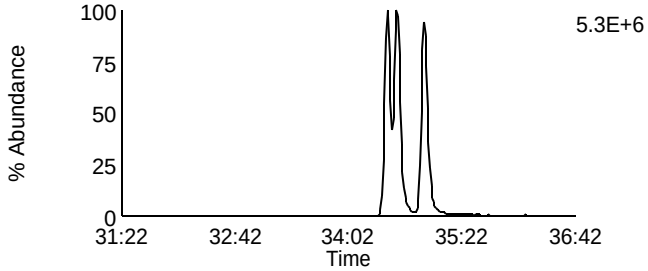
Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

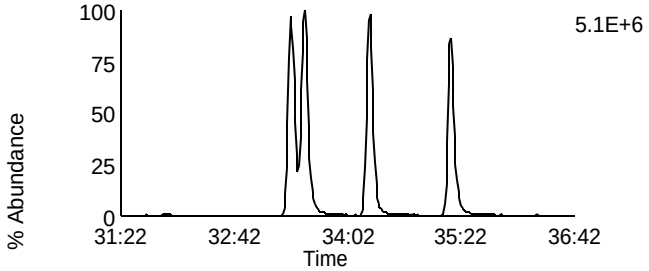
Data File: F131107A_04 G3 C1 - 373.8207
SAMP 10247063016-MSD - SMT PASI-WI



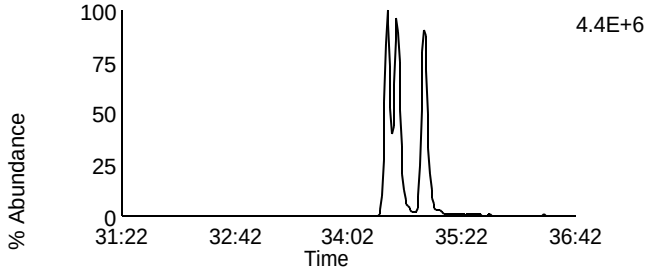
Data File: F131107A_04 G3 C7 - 389.8156
SAMP 10247063016-MSD - SMT PASI-WI



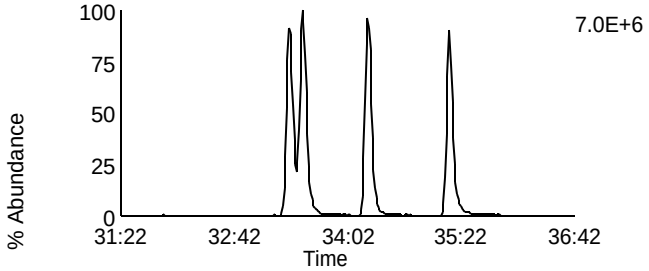
Data File: F131107A_04 G3 C2 - 375.8178
SAMP 10247063016-MSD - SMT PASI-WI



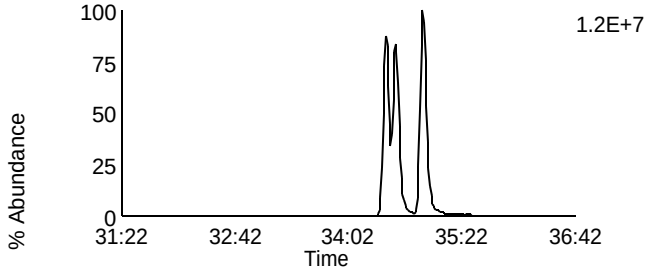
Data File: F131107A_04 G3 C8 - 391.8127
SAMP 10247063016-MSD - SMT PASI-WI



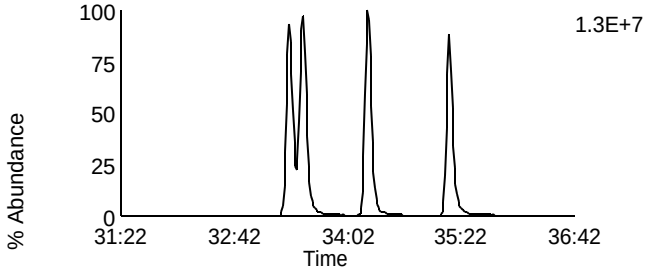
Data File: F131107A_04 G3 C5 - 383.8639
SAMP 10247063016-MSD - SMT PASI-WI



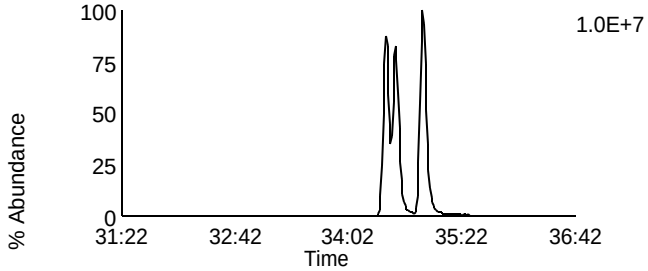
Data File: F131107A_04 G3 C9 - 401.8559
SAMP 10247063016-MSD - SMT PASI-WI



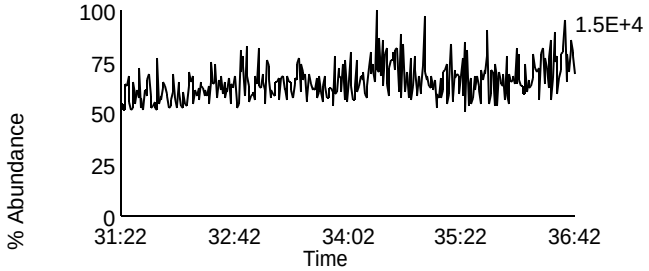
Data File: F131107A_04 G3 C6 - 385.861
SAMP 10247063016-MSD - SMT PASI-WI



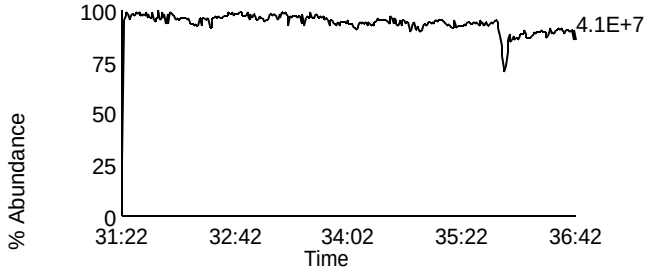
Data File: F131107A_04 G3 C10 - 403.8529
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G3 C11 - 445.7555
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G3 C3 - 380.976
SAMP 10247063016-MSD - SMT PASI-WI

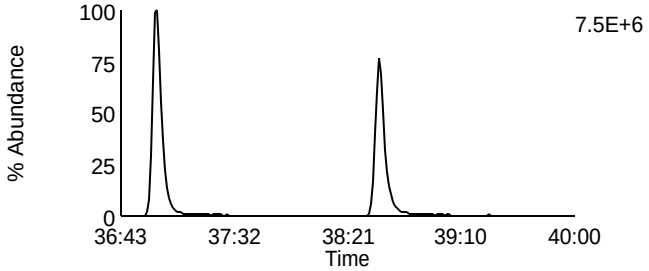


Homologue Group: Heptas

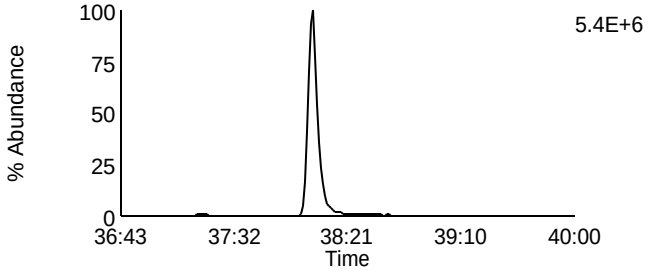
Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

Data File: F131107A_04 G4 C3 - 407.7818
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G4 C8 - 423.7767
SAMP 10247063016-MSD - SMT PASI-WI



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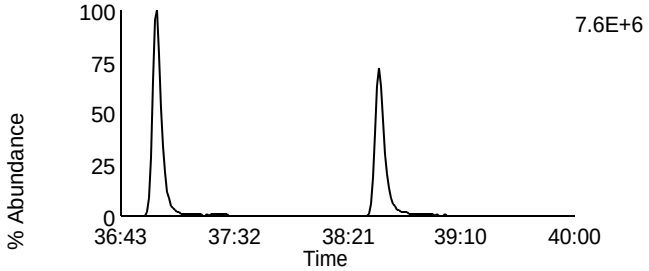
SAMP 10247063016-MSD - SMT PASI-WI



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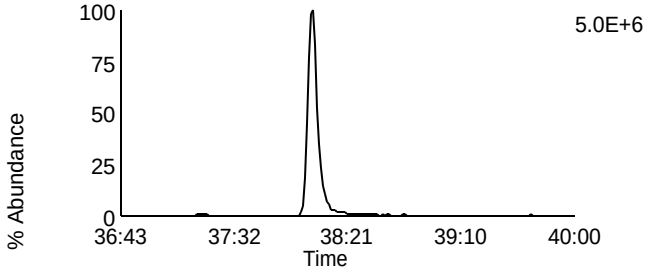
SAMP 10247063016-MSD - SMT PASI-WI



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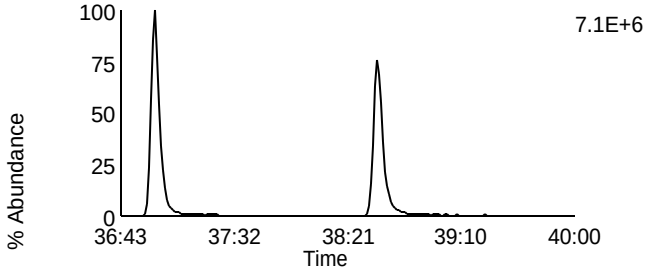
SAMP 10247063016-MSD - SMT PASI-WI



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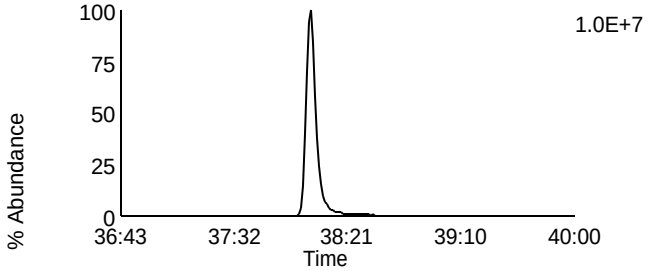
SAMP 10247063016-MSD - SMT PASI-WI



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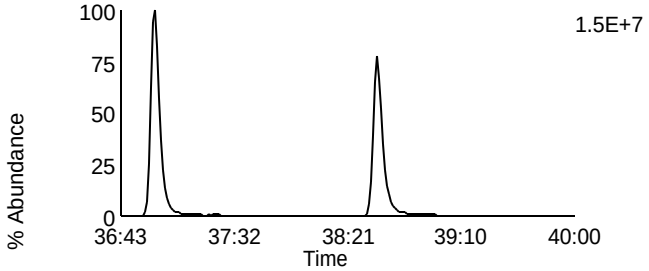
SAMP 10247063016-MSD - SMT PASI-WI



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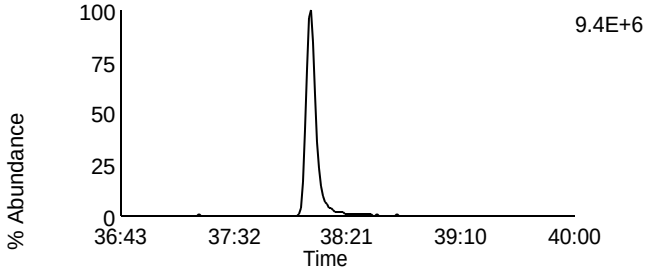
SAMP 10247063016-MSD - SMT PASI-WI



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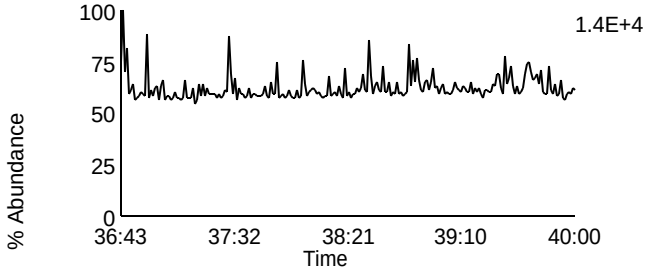
SAMP 10247063016-MSD - SMT PASI-WI



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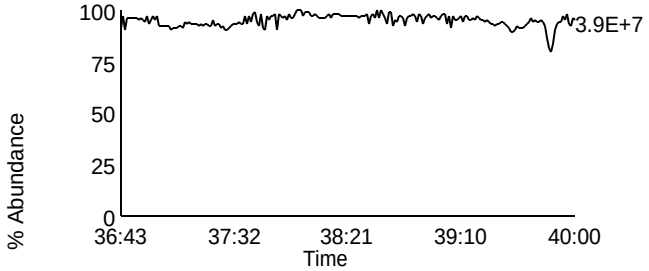
SAMP 10247063016-MSD - SMT PASI-WI

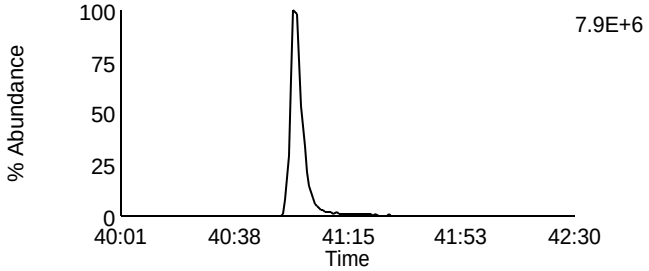


Homologue Group: Octas

Data File Name: F131107A_04
Date Acquired: 11/7/2013
Sample Description: SAMP 10247063016-MSD - SMT PASI-WI

Lab Sample ID: 10247063016-MSD
Client Sample ID: MAK024O-MSD
Instrument: 10MSHR05 (F)

Data File: F131107A_04 G5 C4 - 441.7428
SAMP 10247063016-MSD - SMT PASI-WI



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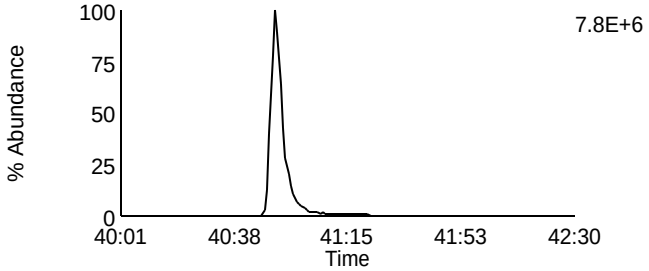
SAMP 10247063016-MSD - SMT PASI-WI



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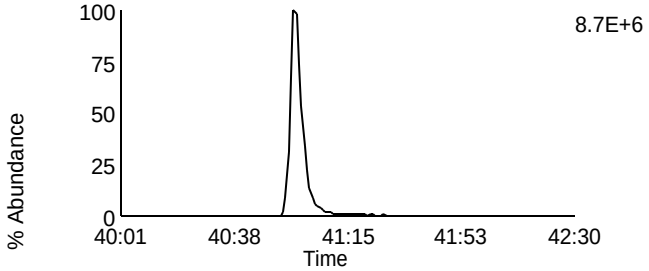
SAMP 10247063016-MSD - SMT PASI-WI



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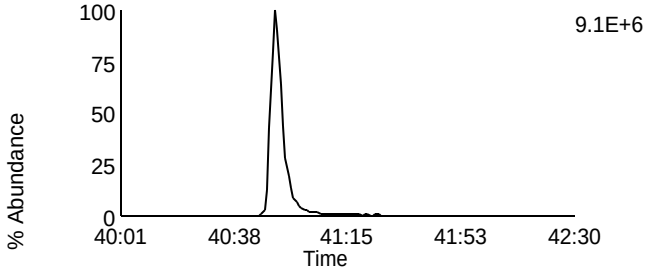
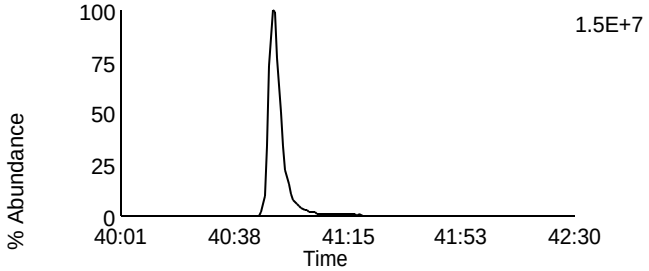
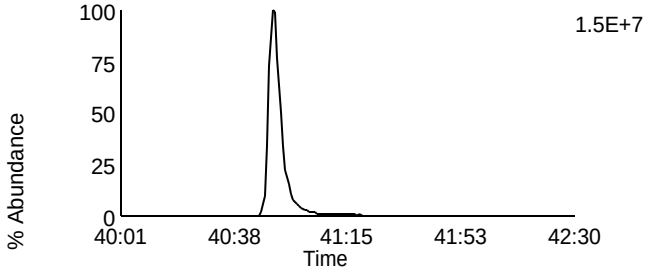
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G5 C11 - 469.7779
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G5 C11 - 469.7779
SAMP 10247063016-MSD - SMT PASI-WI



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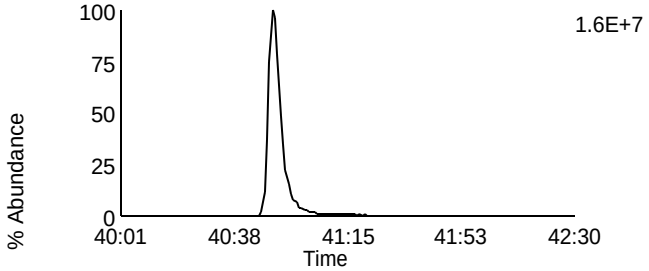
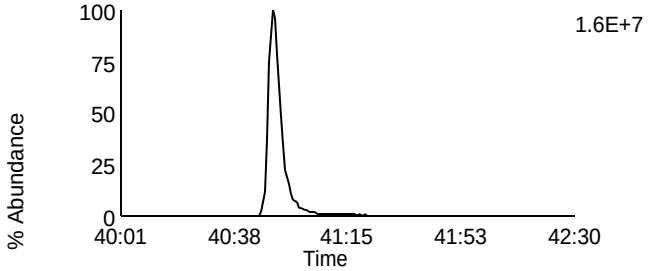
SAMP 10247063016-MSD - SMT PASI-WI



Data File: F131107A_04 G5 C12 - 471.7749
SAMP 10247063016-MSD - SMT PASI-WI



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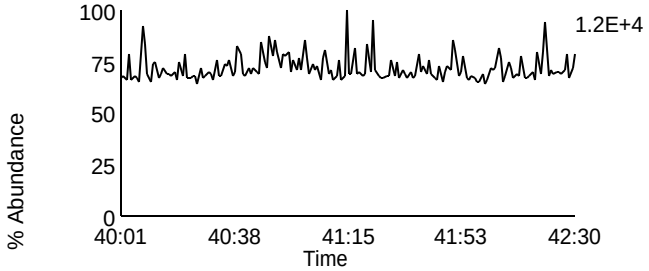
SAMP 10247063016-MSD - SMT PASI-WI



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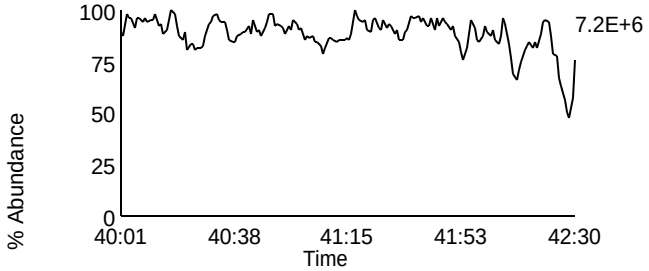
SAMP 10247063016-MSD - SMT PASI-WI



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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID		Injected By	SMT
Lab ID	BLANK-38307	Instrument ID	10MSHR05 (F)
Filename	F131107A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 12:07	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:20	6.37e7	8.28e7	8.73e6	1.15e7	1.055e4	8.152e3	0.77	
2,3,7,8-TCDF	18:20	5.02e4	4.81e4	1.19e4	1.16e4	1.331e3	1.519e3	1.05	I

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		18:31	6.13e7	7.80e7	9.05e6	1.14e7	5.632e3	3.029e3	0.79	
2,3,7,8-TCDD-13C		19:22	5.64e7	7.21e7	7.19e6	9.21e6	3.071e3	3.581e3	0.78	
2,3,7,8-TCDD-37Cl4		19:23	1.27e7		1.65e6		1.538e3	-----		
2,3,7,8-TCDD		19:22	ND	ND	ND	ND	2.004e3	1.966e3		
Other TCDD	1	15:45	1.42e5	1.87e5					0.76	
	2	16:03	6.87e4	9.66e4					0.71	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:06	7.69e7	4.93e7	6.58e6	4.30e6	1.224e4	4.282e3	1.56	
2,3,4,7,8-PeCDF-13C	28:30	7.62e7	4.85e7	8.49e6	5.41e6	5.842e3	7.324e3	1.57	
1,2,3,7,8-PeCDF	26:10	3.39e4	3.21e4	5.54e3	5.27e3	7.971e2	8.497e2	1.06	I
2,3,4,7,8-PeCDF	28:29	3.11e4	7.99e3	8.61e3	3.82e3	7.971e2	8.334e2	3.90	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	29:09	6.39e7	4.25e7	7.31e6	4.91e6	7.276e3	3.541e3	1.50	
1,2,3,7,8-PeCDD	29:12	ND	ND	ND	ND	1.210e3	1.237e3		

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	33:20	3.24e7	6.41e7	6.29e6	1.23e7	1.534e3	3.030e3	0.51	
1,2,3,6,7,8-HxCDF-13C	33:29	4.14e7	7.95e7	7.07e6	1.34e7	1.067e3	3.394e4	0.52	
2,3,4,6,7,8-HxCDF-13C	34:15	3.83e7	7.37e7	7.26e6	1.39e7	1.534e3	9.621e3	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	3.41e7	6.64e7	6.47e6	1.23e7	6.980e3	1.676e4	0.51	
1,2,3,4,7,8-HxCDF	33:21	2.99e4	3.42e4	6.37e3	8.39e3	1.541e3	1.220e3	0.87	I
1,2,3,6,7,8-HxCDF	33:31	3.74e4	2.56e4	6.28e3	7.98e3	1.352e3	1.220e3	1.46	I
2,3,4,6,7,8-HxCDF	34:18	4.53e4	4.70e4	6.78e3	1.07e4	1.371e3	1.220e3	0.97	I

REPORT OF LABORATORY ANALYSIS

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Client ID		Injected By	SMT
Lab ID	BLANK-38307	Instrument ID	10MSHR05 (F)
Filename	F131107A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 12:07	ICAL ID	F131105

1,2,3,7,8,9-HxCDF	35:14	5.49e4	3.74e4	1.13e4	6.60e3	1.201e3	1.118e3	1.47	I

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	34:27	4.82e7	3.88e7	1.06e7	8.50e6	5.206e3	2.137e3	1.24	
1,2,3,6,7,8-HxCDD-13C	34:34	5.80e7	4.67e7	1.09e7	8.63e6	6.304e3	2.099e3	1.24	
1,2,3,7,8,9-HxCDD-13C	34:53	6.21e7	5.05e7	1.17e7	9.39e6	7.349e3	4.189e3	1.23	
1,2,3,4,7,8-HxCDD	34:27	2.23e4	1.09e4	8.87e3	6.40e3	1.246e3	1.315e3	2.05	I
1,2,3,6,7,8-HxCDD	34:36	3.66e4	2.70e4	9.06e3	7.01e3	1.246e3	1.109e3	1.35	
1,2,3,7,8,9-HxCDD	34:53	2.49e4	3.64e4	6.58e3	1.02e4	1.514e3	1.497e3	0.69	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	36:57	3.22e7	7.38e7	6.62e6	1.45e7	5.027e3	1.488e4	0.44	
1,2,3,4,7,8,9-HpCDF-13C	38:33	2.87e7	6.62e7	5.59e6	1.33e7	6.022e3	1.120e4	0.43	
1,2,3,4,6,7,8-HpCDF	36:59	6.41e4	6.57e4	1.29e4	1.23e4	1.414e3	1.410e3	0.98	
1,2,3,4,7,8,9-HpCDF	38:34	4.47e4	5.16e4	1.04e4	1.05e4	1.926e3	1.535e3	0.87	I
Other HpCDF 1	37:24	3.60e4	3.93e4					0.92	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	38:05	5.41e7	5.11e7	1.03e7	9.90e6	3.160e4	2.714e4	1.06	
1,2,3,4,6,7,8-HpCDD	38:05	8.73e4	9.63e4	1.85e4	1.95e4	1.976e3	1.958e3	0.91	
Other HpCDD 1	37:17	6.30e4	6.33e4					1.00	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:59	1.41e5	1.39e5	3.26e4	2.81e4	1.861e3	2.634e3	1.02	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	7.86e7	8.63e7	1.54e7	1.70e7	1.018e3	8.490e2	0.91	
OCDD	40:51	3.67e5	4.27e5	7.81e4	8.56e4	2.745e3	3.003e3	0.86	

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Client ID		Injected By	SMT
Lab ID	BLANK-38307	Instrument ID	10MSHR05 (F)
Filename	F131107A_06	GC Column ID	USD174324H
Analyzed	11/07/2013 12:07	ICAL ID	F131105

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client ID	LCSSV	Injected By	BAL
Lab ID	LCS-38308	Instrument ID	10MSHR06 (U)
Filename	U131108A_04	GC Column ID	USD227224H
Analyzed	11/08/2013 14:58	ICAL ID	U131104

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:43	1.85e7	2.30e7	3.10e6	3.80e6	-----	-----	0.80	
2,3,7,8-TCDF	18:44	1.85e6	2.28e6	3.33e5	3.62e5	-----	-----	0.81	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:57	1.75e7	2.25e7	2.92e6	3.81e6	-----	-----	0.77	
2,3,7,8-TCDD-13C	19:44	1.39e7	1.77e7	2.11e6	2.68e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	19:45	3.48e6		5.12e5		-----	-----		
2,3,7,8-TCDD	19:47	1.31e6	1.81e6	1.93e5	2.82e5	-----	-----	0.73	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	26:27	1.79e7	1.12e7	2.03e6	1.22e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	28:34	1.51e7	9.55e6	2.21e6	1.47e6	-----	-----	1.58	
1,2,3,7,8-PeCDF	26:30	8.37e6	5.19e6	9.55e5	6.18e5	-----	-----	1.61	
2,3,4,7,8-PeCDF	28:35	7.08e6	4.67e6	1.08e6	7.36e5	-----	-----	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	29:11	1.00e7	6.43e6	1.46e6	9.25e5	-----	-----	1.56	
1,2,3,7,8-PeCDD	29:12	2.87e6	4.82e6	4.07e5	7.27e5	-----	-----	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	33:21	4.90e6	9.95e6	1.06e6	2.08e6	-----	-----	0.49	
1,2,3,6,7,8-HxCDF-13C	33:31	7.30e6	1.40e7	1.32e6	2.59e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:21	6.66e6	1.30e7	1.26e6	2.45e6	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:23	5.35e6	1.02e7	9.82e5	1.94e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	33:23	4.76e6	3.81e6	9.93e5	8.62e5	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	33:33	6.28e6	5.28e6	1.12e6	9.96e5	-----	-----	1.19	
2,3,4,6,7,8-HxCDF	34:22	6.03e6	4.91e6	1.21e6	9.43e5	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	35:23	4.36e6	3.56e6	8.03e5	6.96e5	-----	-----	1.23	

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Client ID	LCSSV	Injected By	BAL
Lab ID	LCS-38308	Instrument ID	10MSHR06 (U)
Filename	U131108A_04	GC Column ID	USD227224H
Analyzed	11/08/2013 14:58	ICAL ID	U131104

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	34:35	7.10e6	5.62e6	1.62e6	1.31e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	34:42	8.87e6	7.26e6	1.55e6	1.30e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	35:01	1.00e7	8.05e6	1.92e6	1.50e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	34:36	3.75e6	2.94e6	8.81e5	7.06e5	-----	-----	1.27	
1,2,3,6,7,8-HxCDD	34:42	5.01e6	4.07e6	9.05e5	7.71e5	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	35:02	4.27e6	3.42e6	7.90e5	6.40e5	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	37:16	4.46e6	9.45e6	9.53e5	2.20e6	-----	-----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	38:57	3.49e6	7.76e6	7.14e5	1.62e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	37:17	5.27e6	5.13e6	1.13e6	1.05e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	38:58	3.98e6	3.81e6	8.03e5	8.14e5	-----	-----	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	38:28	5.61e6	5.50e6	1.15e6	1.14e6	-----	-----	1.02	
1,2,3,4,6,7,8-HpCDD	38:29	3.14e6	2.81e6	6.91e5	5.81e5	-----	-----	1.12	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:31	6.59e6	7.44e6	1.56e6	1.59e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:24	9.17e6	9.51e6	2.07e6	2.16e6	-----	-----	0.96	
OCDD	41:24	5.13e6	5.64e6	1.04e6	1.22e6	-----	-----	0.91	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK024O-MS	Injected By	SMT
Lab ID	10247063016-MS	Instrument ID	10MSHR05 (F)
Filename	F131107A_03	GC Column ID	USD174324H
Analyzed	11/07/2013 09:52	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:20	7.21e7	9.27e7	1.05e7	1.35e7	-----	-----	0.78	
2,3,7,8-TCDF	18:21	6.96e6	9.14e6	9.57e5	1.23e6	-----	-----	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	18:31	7.53e7	9.75e7	1.09e7	1.42e7	-----	-----	0.77	
2,3,7,8-TCDD-13C	19:22	6.41e7	8.06e7	8.35e6	1.07e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	19:23	1.51e7		1.97e6		-----	-----		
2,3,7,8-TCDD	19:22	5.45e6	7.39e6	7.00e5	9.87e5	-----	-----	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	26:07	8.83e7	5.68e7	7.58e6	4.91e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	28:30	8.85e7	5.65e7	9.51e6	6.24e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:09	4.42e7	2.89e7	3.87e6	2.52e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	28:32	4.48e7	2.86e7	4.89e6	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	29:09	7.66e7	4.89e7	9.05e6	5.69e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	29:12	2.04e7	3.36e7	2.44e6	4.00e6	-----	-----	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	33:21	3.81e7	7.36e7	7.31e6	1.42e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:29	5.09e7	9.64e7	8.29e6	1.62e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	34:16	4.48e7	8.62e7	8.32e6	1.61e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	35:13	4.19e7	7.95e7	7.29e6	1.44e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	33:21	3.81e7	3.12e7	6.75e6	5.50e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDF	33:31	4.54e7	3.61e7	7.49e6	6.10e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	34:17	4.17e7	3.31e7	8.00e6	6.22e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	35:14	3.62e7	2.83e7	6.60e6	5.19e6	-----	-----	1.28	

REPORT OF LABORATORY ANALYSIS

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Client Name	PASI Wisconsin		
Client ID	MAK024O-MS	Injected By	SMT
Lab ID	10247063016-MS	Instrument ID	10MSHR05 (F)
Filename	F131107A_03	GC Column ID	USD174324H
Analyzed	11/07/2013 09:52	ICAL ID	F131105

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	34:28	6.03e7	4.83e7	1.25e7	1.00e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	34:34	6.65e7	5.29e7	1.26e7	9.71e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	34:54	7.98e7	6.44e7	1.51e7	1.19e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	34:29	3.01e7	2.42e7	6.37e6	5.08e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	34:36	3.33e7	2.67e7	6.11e6	4.85e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	34:55	3.31e7	2.72e7	6.31e6	5.08e6	-----	-----	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	36:57	3.98e7	8.81e7	8.60e6	1.86e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	38:34	3.45e7	7.61e7	6.82e6	1.45e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:58	4.65e7	4.47e7	1.00e7	9.88e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	38:35	3.53e7	3.47e7	6.66e6	6.74e6	-----	-----	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	38:05	6.53e7	6.08e7	1.29e7	1.20e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	38:06	3.45e7	3.24e7	6.83e6	6.51e6	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	4.86e7	5.41e7	1.04e7	1.15e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	8.92e7	1.02e8	1.88e7	2.03e7	-----	-----	0.88	
OCDD	40:52	4.74e7	5.44e7	9.73e6	1.10e7	-----	-----	0.87	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By_____ Date _____

Client Name	PASI Wisconsin		
Client ID	MAK024O-MSD	Injected By	SMT
Lab ID	10247063016-MSD	Instrument ID	10MSHR05 (F)
Filename	F131107A_04	GC Column ID	USD174324H
Analyzed	11/07/2013 10:37	ICAL ID	F131105

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	18:20	6.75e7	8.69e7	9.19e6	1.19e7	-----	-----	0.78	
2,3,7,8-TCDF	18:22	6.34e6	7.97e6	8.86e5	1.14e6	-----	-----	0.80	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	18:31	6.85e7	8.69e7	9.76e6	1.24e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	19:22	5.86e7	7.47e7	7.46e6	9.53e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	19:23	1.40e7		1.82e6		-----	-----		
2,3,7,8-TCDD	19:24	4.97e6	6.65e6	6.52e5	8.82e5	-----	-----	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	26:07	8.30e7	5.18e7	7.34e6	4.71e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	28:31	8.18e7	5.19e7	9.36e6	5.78e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	26:08	4.02e7	2.55e7	3.46e6	2.25e6	-----	-----	1.58	
2,3,4,7,8-PeCDF	28:32	3.99e7	2.58e7	4.36e6	2.68e6	-----	-----	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	29:10	6.90e7	4.41e7	7.90e6	5.13e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	29:12	1.78e7	2.99e7	2.13e6	3.44e6	-----	-----	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	33:21	3.31e7	6.41e7	6.38e6	1.25e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	33:30	4.22e7	8.20e7	6.98e6	1.31e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	34:16	3.68e7	7.24e7	6.69e6	1.34e7	-----	-----	0.51	
1,2,3,7,8,9-HxCDF-13C	35:14	3.41e7	6.56e7	6.29e6	1.18e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	33:22	3.29e7	2.56e7	5.99e6	4.91e6	-----	-----	1.28	
1,2,3,6,7,8-HxCDF	33:31	3.71e7	3.07e7	6.32e6	5.07e6	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	34:18	3.34e7	2.69e7	6.16e6	4.95e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	35:14	2.95e7	2.38e7	5.38e6	4.36e6	-----	-----	1.24	

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Client Name	PASI Wisconsin		
Client ID	MAK024O-MSD	Injected By	SMT
Lab ID	10247063016-MSD	Instrument ID	10MSHR05 (F)
Filename	F131107A_04	GC Column ID	USD174324H
Analyzed	11/07/2013 10:37	ICAL ID	F131105

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	34:28	4.91e7	4.00e7	1.09e7	8.88e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDD-13C	34:35	5.95e7	4.69e7	1.04e7	8.35e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDD-13C	34:54	6.71e7	5.47e7	1.25e7	1.02e7	-----	-----	1.23	
1,2,3,4,7,8-HxCDD	34:29	2.40e7	1.96e7	5.23e6	4.42e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	34:36	2.95e7	2.38e7	5.24e6	4.23e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	34:55	2.71e7	2.20e7	4.93e6	3.99e6	-----	-----	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	36:58	3.09e7	7.21e7	7.13e6	1.55e7	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	38:34	2.64e7	5.87e7	5.40e6	1.20e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	36:59	3.49e7	3.48e7	7.48e6	7.62e6	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	38:35	2.77e7	2.71e7	5.70e6	5.47e6	-----	-----	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	38:06	5.25e7	4.84e7	1.02e7	9.36e6	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	38:06	2.67e7	2.56e7	5.41e6	4.96e6	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	40:58	3.71e7	4.16e7	7.86e6	8.66e6	-----	-----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	40:51	7.44e7	7.96e7	1.49e7	1.59e7	-----	-----	0.93	
OCDD	40:52	3.68e7	4.31e7	7.80e6	9.08e6	-----	-----	0.85	

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