

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
 Data File : BF108406.D
 Acq On : 23 Aug 2018 3:32
 Operator : JU/SJ
 Sample : J4586-01 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP1-275-UST-SLUDGE

Manual Integrations
 APPROVED

Sohil
 8/23/2018 3:43:38 PM

Quant Time: Aug 23 08:16:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 22 11:01:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	142373	20.00	ng	0.00
21) Naphthalene-d8	8.29	136	498281	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	233892	20.00	ng	0.01
63) Phenanthrene-d10	11.56	188	370343	20.00	ng	0.01
75) Chrysene-d12	14.19	240	309305	20.00	ng	0.00
86) Perylene-d12	15.75	264	276881	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	74835	9.52	ng	-0.01
7) Phenol-d6	6.62	99	105222	10.07	ng	-0.01
23) Nitrobenzene-d5	7.56	82	98058	10.98	ng	-0.01
41) 2,4,6-Tribromophenol	10.86	330	13359	5.73	ng	0.01
44) 2-Fluorobiphenyl	9.37	172	107465	7.38	ng	0.00
78) Terphenyl-d14	13.13	244	86533	7.11	ng	0.00
Target Compounds						
37) 2-Methylnaphthalene	9.01	142	212552	13.257	ng	# 94
70) Phenanthrene	11.58	178	469738	26.892	ng	# 96
71) Anthracene	11.64	178	68139	3.806	ng	# 57
74) Fluoranthene	12.77	202	330837	17.354	ng	95
77) Pyrene	13.01	202	365772m	18.679	ng	
80) Benzo(a)anthracene	14.19	228	182752	10.295	ng	98
82) Chrysene	14.22	228	153067	9.406	ng	97
85) Indeno(1,2,3-cd)pyrene	17.35	276	57038	4.045	ng	# 89
87) Benzo(b)fluoranthene	15.28	252	190652m	11.523	ng	
88) Benzo(k)fluoranthene	15.31	252	59254m	3.896	ng	
89) Benzo(a)pyrene	15.68	252	123569	8.341	ng	95
91) Benzo(a,h,i)perylene	17.84	276	46202m	3.828	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

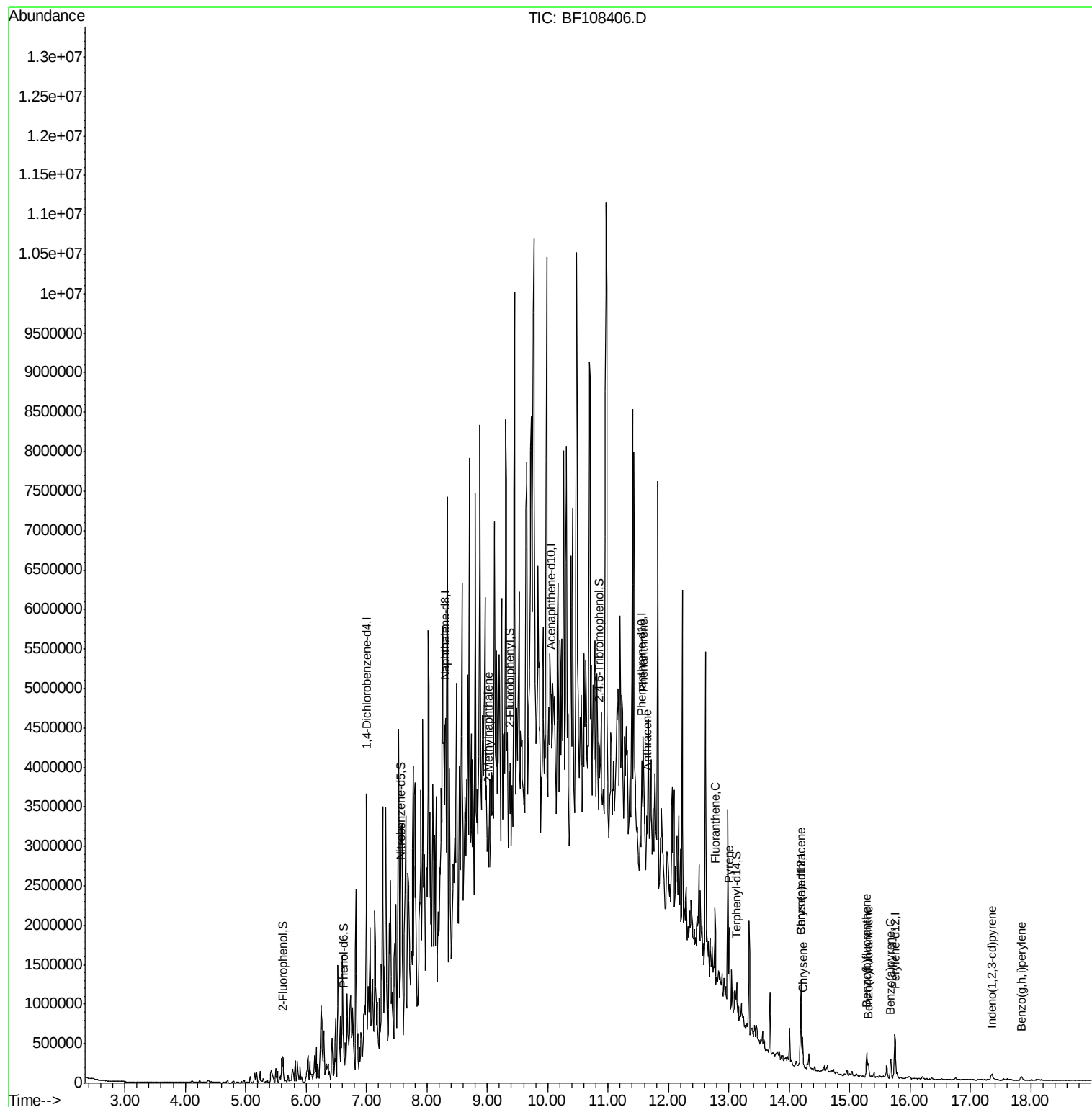
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
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Operator : JU/SJ
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#1

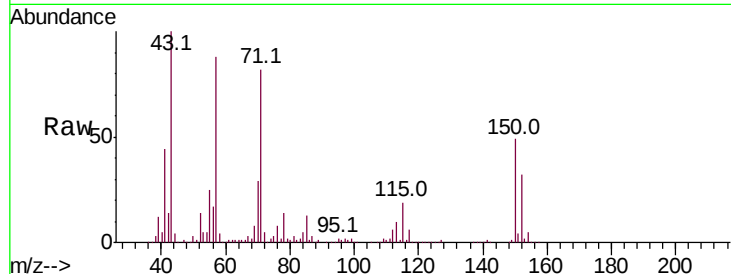
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
EP1-275-UST-SLUDGE

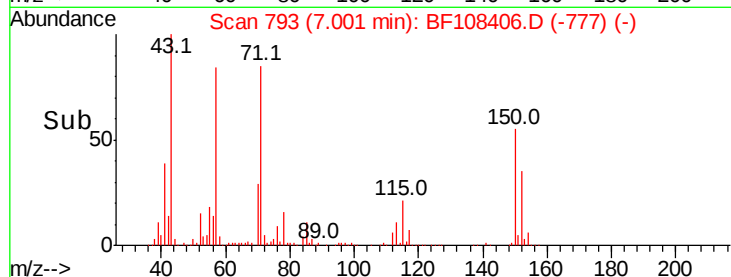
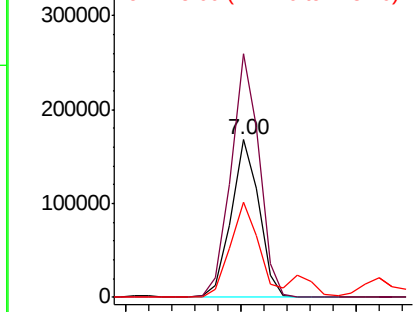
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.6	186.8
115	60.0	50.1	75.1

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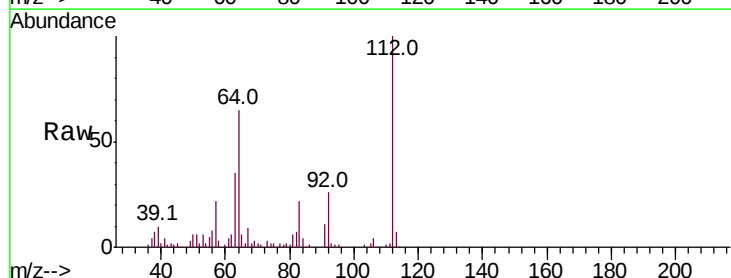
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



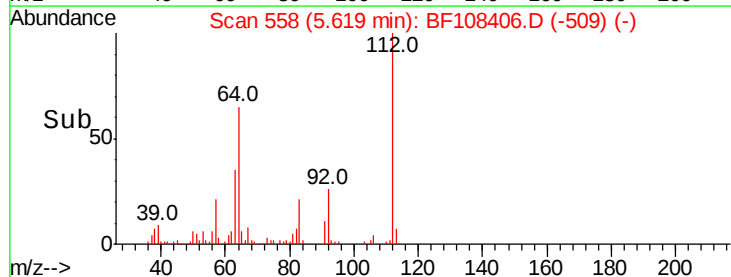
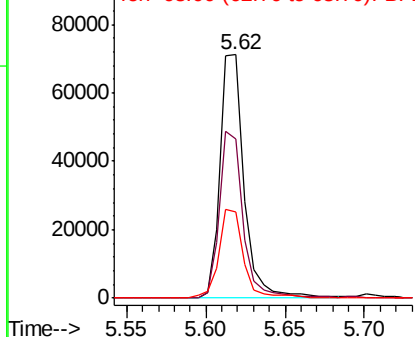
#5

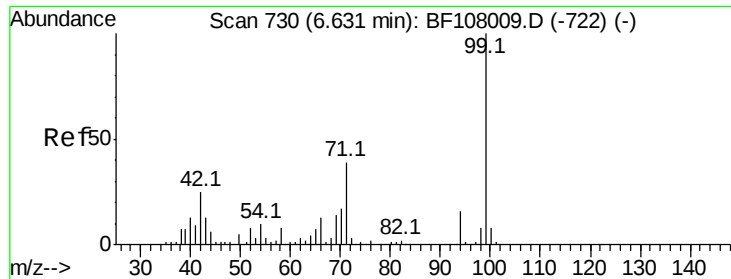
2-Fluorophenol
Concen: 9.516 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	47.9	71.9
63	35.1	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 10.069 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Instrument :

BNA_F

ClientSampleId :

EP1-275-UST-SLUDGE

Tot Ion: 99 Resp: 105222

Ion Ratio Lower Upper

99 100

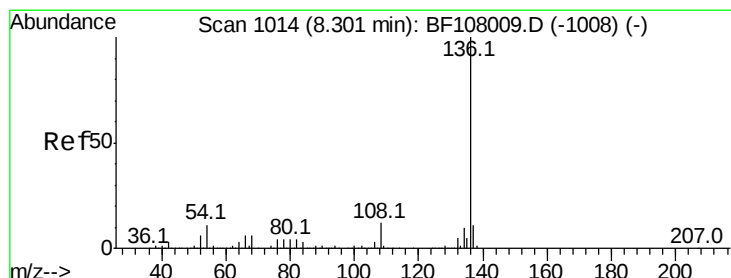
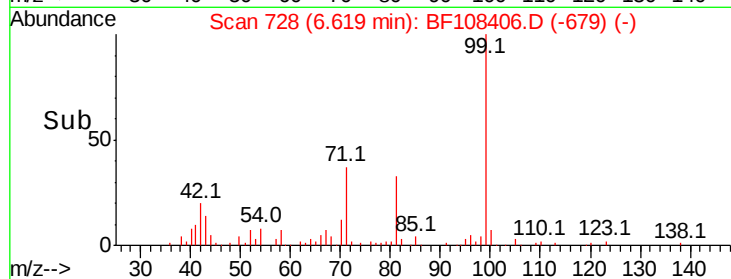
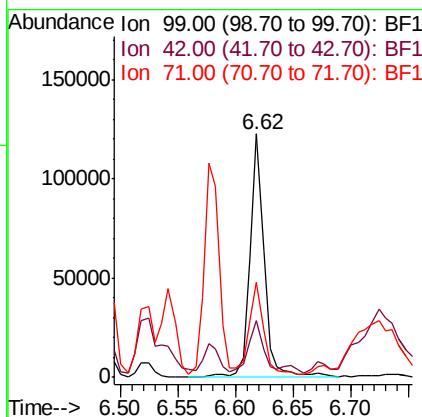
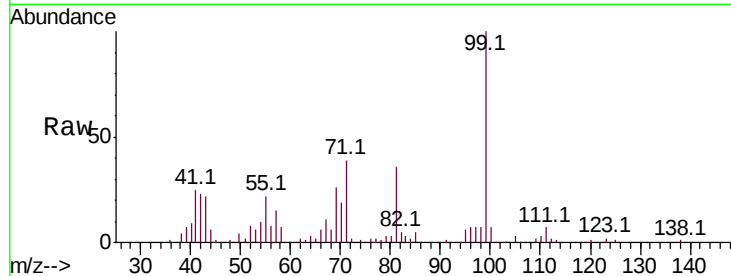
42 23.1 14.5 21.7#

71 39.3 25.4 38.0#

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1013

Delta R.T. 0.01 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Tgt Ion: 136 Resp: 498281

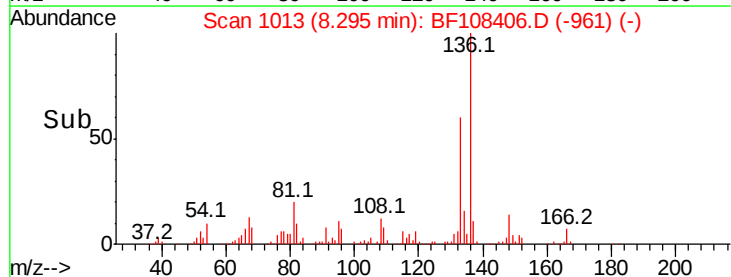
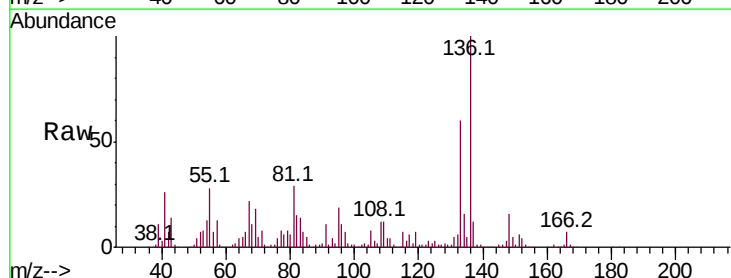
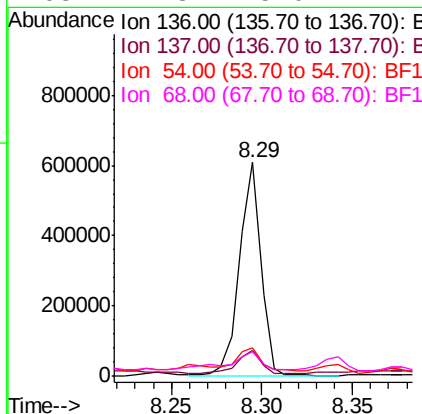
Ion Ratio Lower Upper

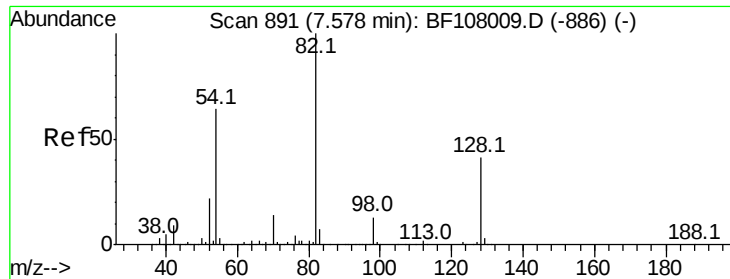
136 100

137 12.1 8.9 13.3

54 13.1 6.6 9.8#

68 11.3 5.0 7.4#





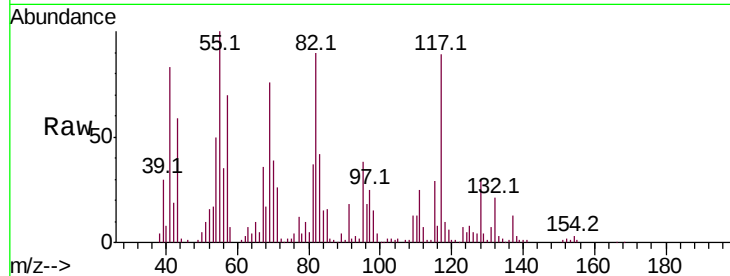
#23
Nitrobenzene-d5
Concen: 10.981 ng
RT: 7.56 min Scan# 888
Delta R.T. -0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	32.9	36.1	54.1#	
54	55.1	41.4	62.2	

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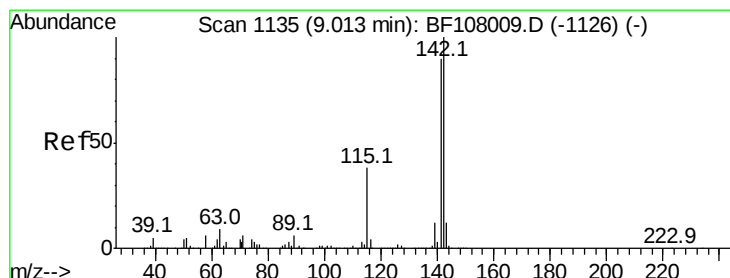
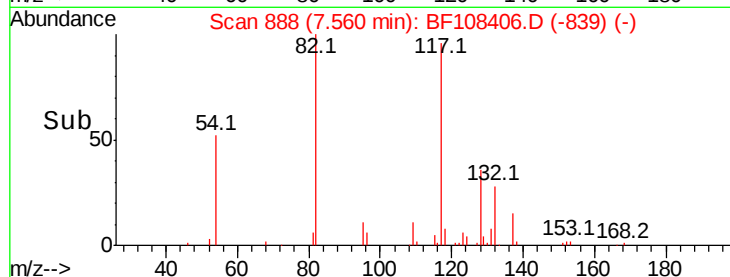
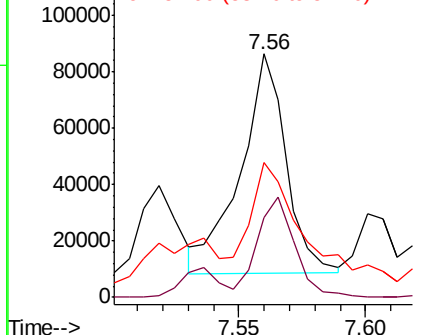


Abundance

Ion 82.00 (81.70 to 82.70): BF1

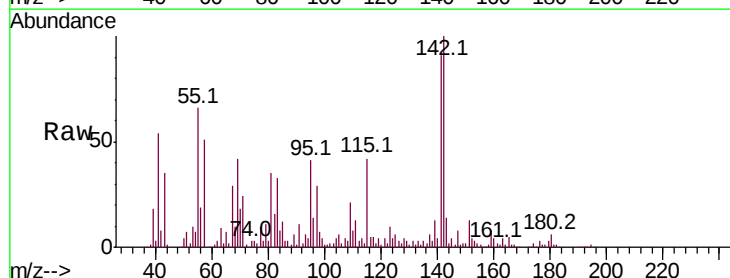
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#37
2-Methylnaphthalene
Concen: 13.257 ng
RT: 9.01 min Scan# 1135
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	91.0	70.8	106.2	
115	41.8	26.1	39.1#	

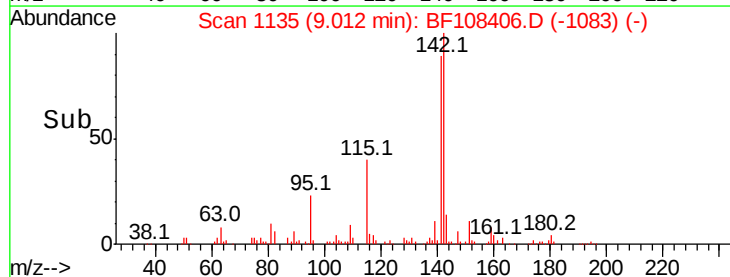
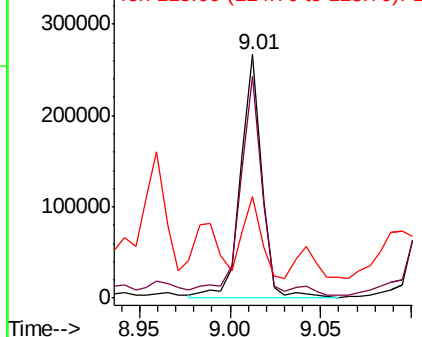


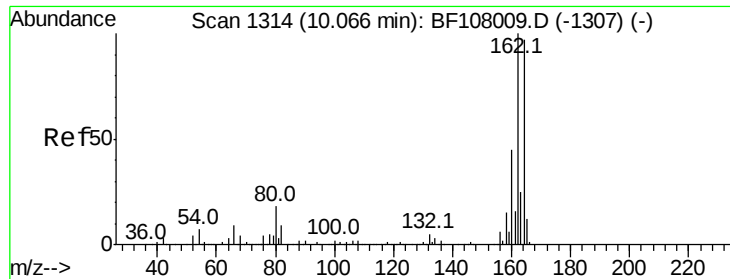
Abundance

Ion 142.00 (141.70 to 142.70): BF1

Ion 141.00 (140.70 to 141.70): BF1

Ion 115.00 (114.70 to 115.70): BF1





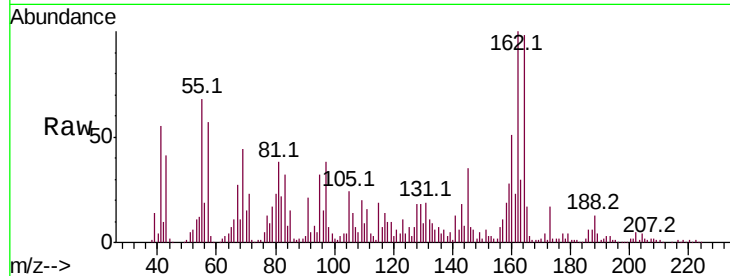
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.07 min Scan# 1314
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
EP1-275-UST-SLUDGE

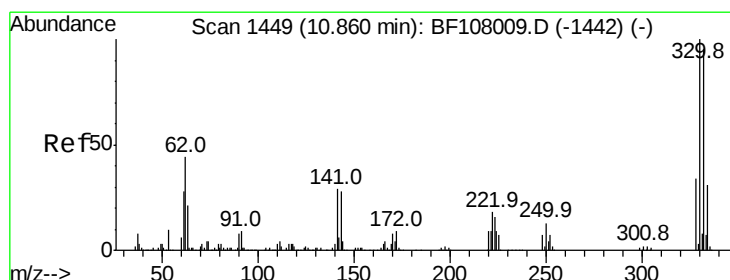
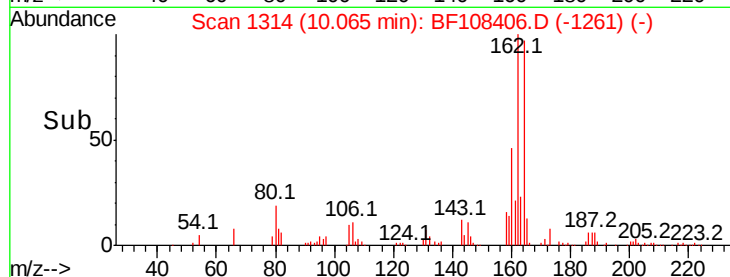
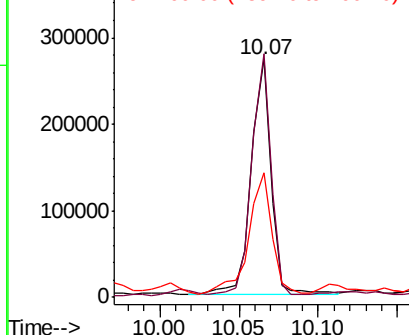
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.2	86.1	129.1	
160	52.1	38.3	57.5	

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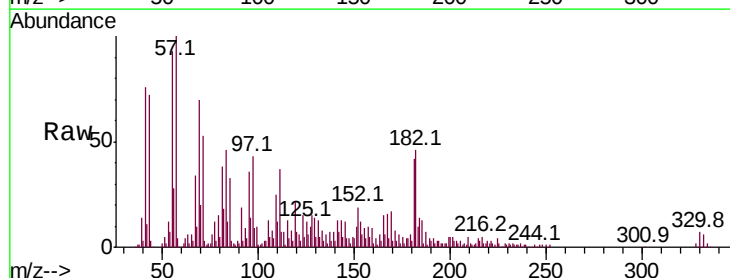


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

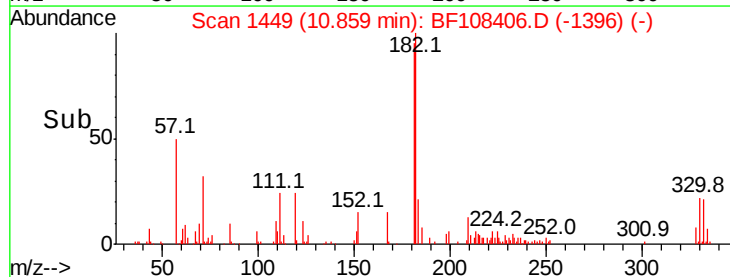
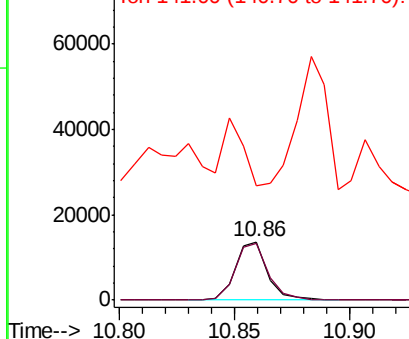


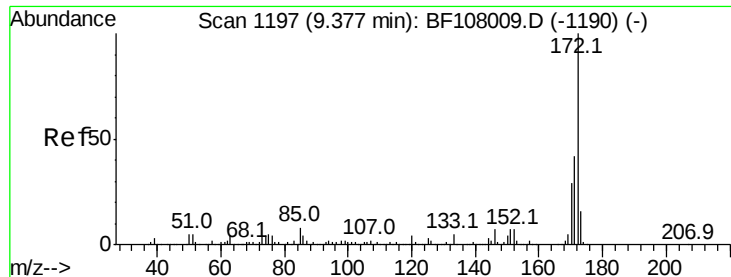
#41
2,4,6-Tribromophenol
Concen: 5.726 ng
RT: 10.86 min Scan# 1449
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.0	77.0	115.6	
141	66.5	29.9	44.9#	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





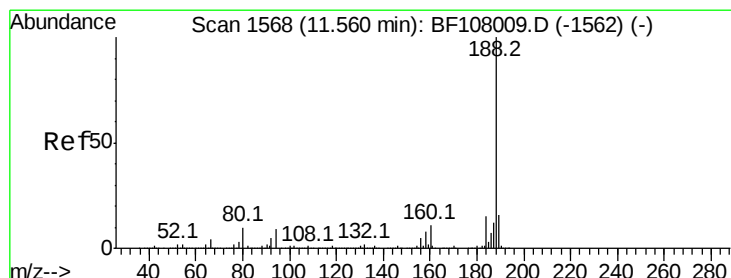
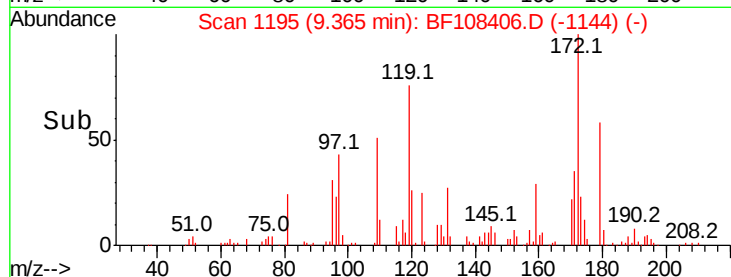
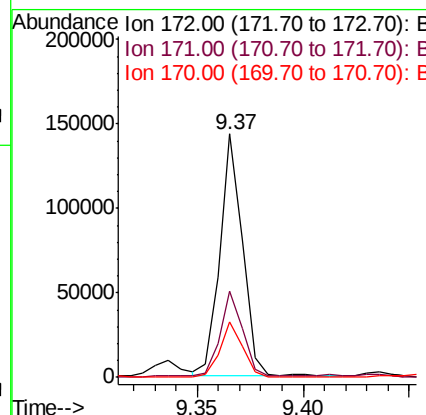
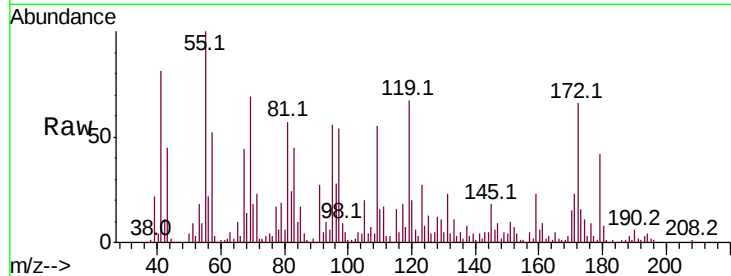
#44
2-Fluorobiphenyl
Concen: 7.377 ng
RT: 9.37 min Scan# 1195
Delta R.T. -0.00 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
EP1-275-UST-SLUDGE

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.7	44.5	
170	23.0	19.6	29.4	

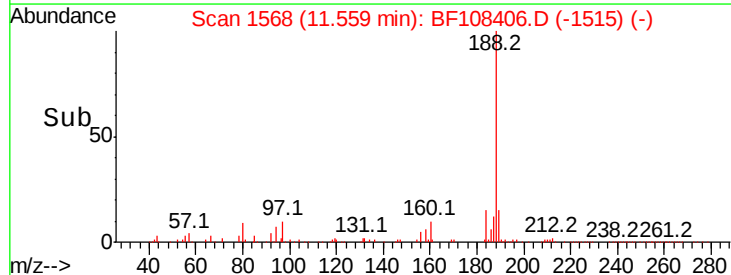
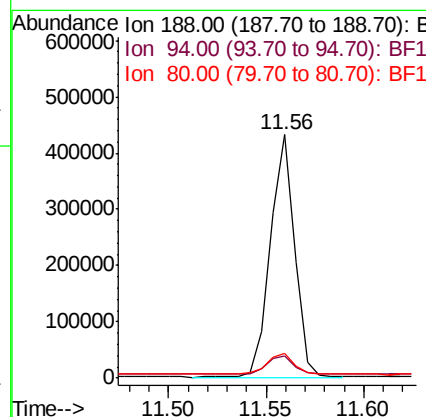
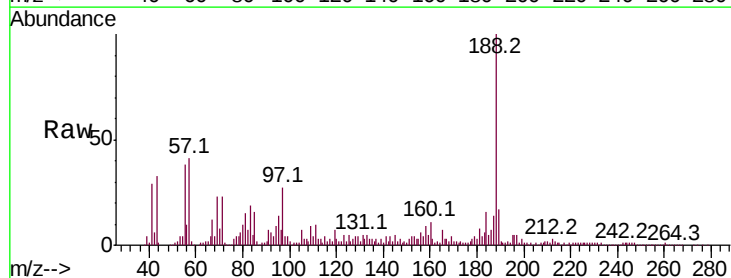
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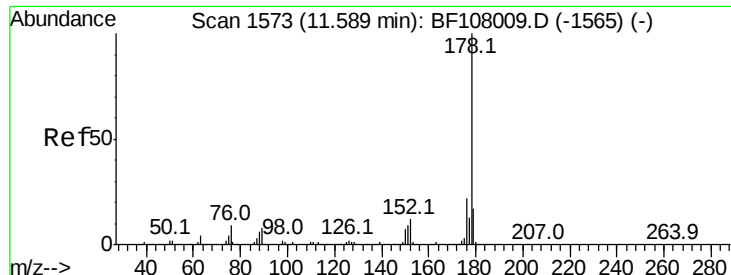
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#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.56 min Scan# 1568
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	9.3	8.5	12.7	
80	10.4	9.2	13.8	





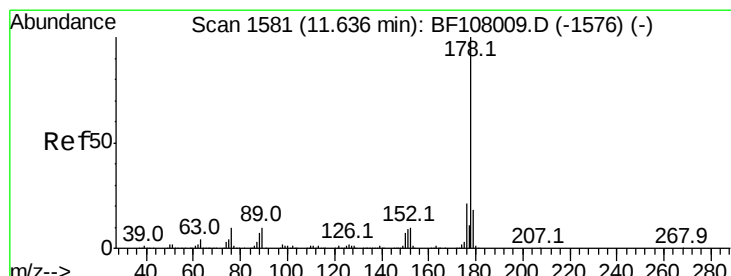
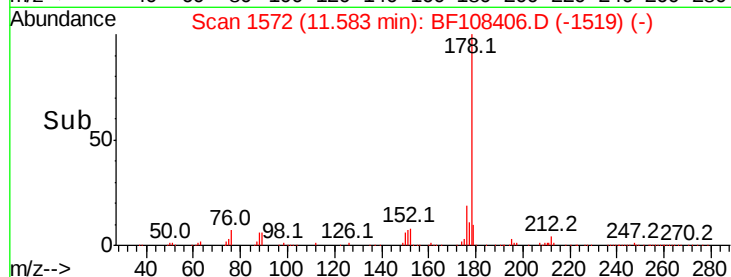
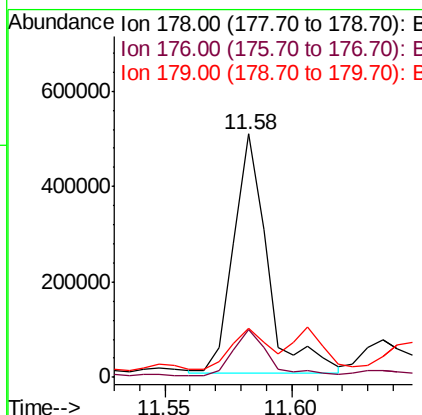
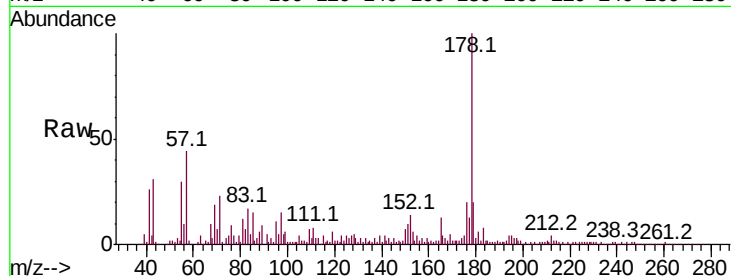
#70
Phenanthrene
Concen: 26.892 ng
RT: 11.58 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100				
176	19.8	15.8	23.8		
179	19.9	13.0	19.6		

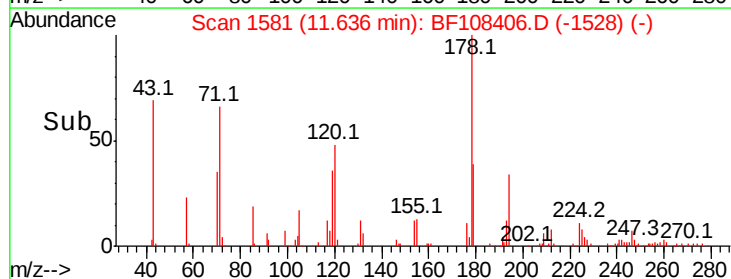
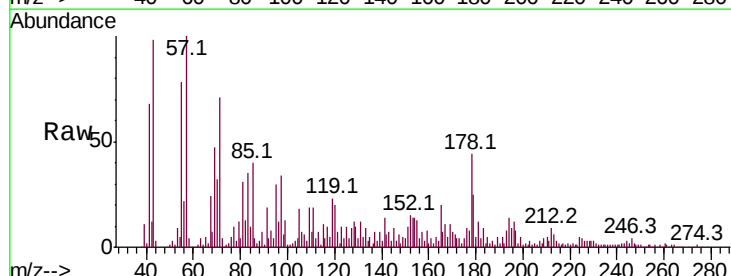
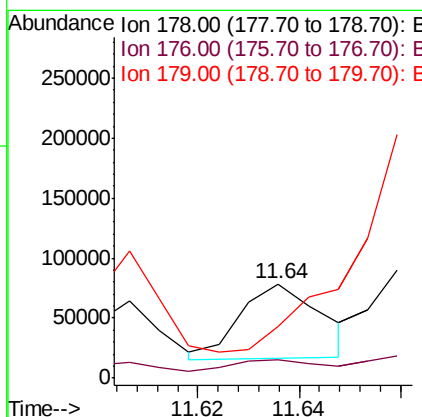
Manual Integrations
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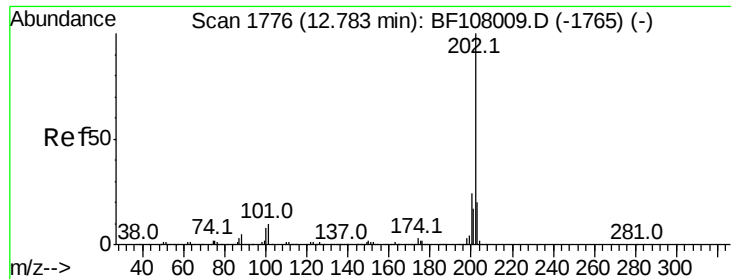
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#71
Anthracene
Concen: 3.806 ng
RT: 11.64 min Scan# 1581
Delta R.T. 0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100				
176	19.8	15.4	23.2		
179	55.3	12.6	19.0		





#74

Fluoranthene

Concen: 17.354 ng

RT: 12.77 min Scan# 1774

Delta R.T. 0.01 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Instrument :

BNA_F

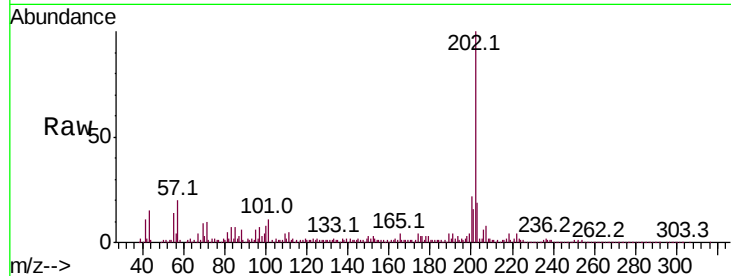
ClientSampleId :

EP1-275-UST-SLUDGE

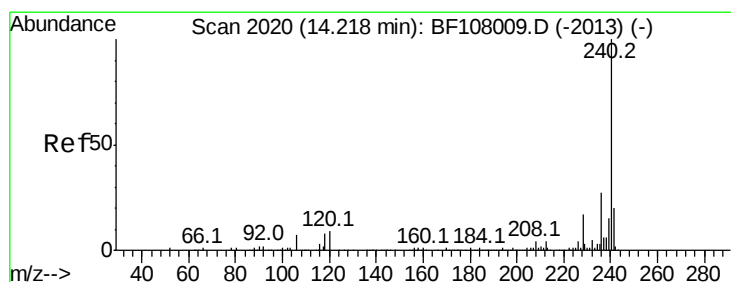
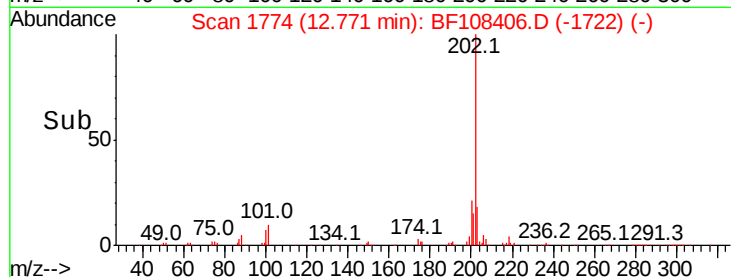
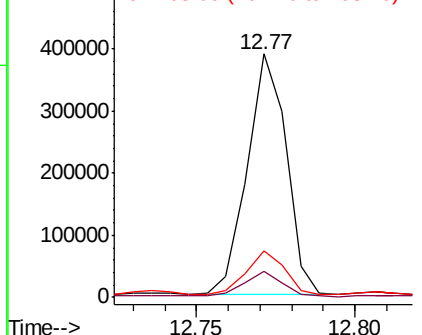
Tot Ion:	202	Resp:	330837
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	34.1
203	18.9	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

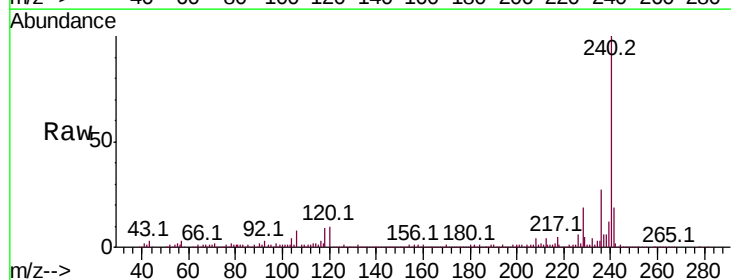
RT: 14.19 min Scan# 2016

Delta R.T. -0.01 min

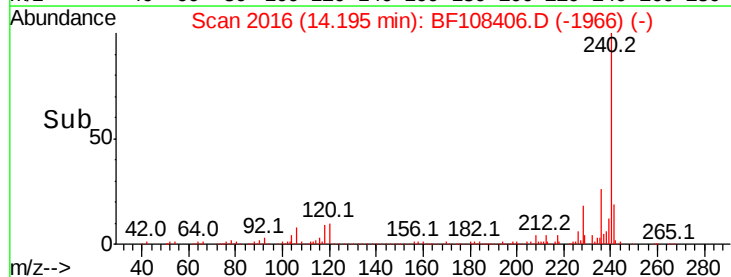
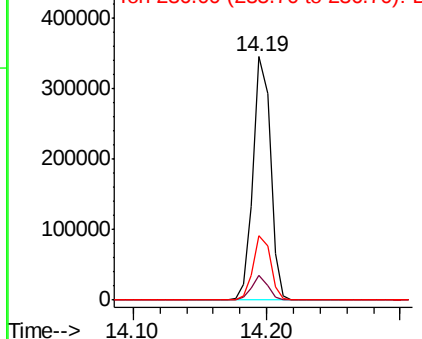
Lab File: BF108406.D

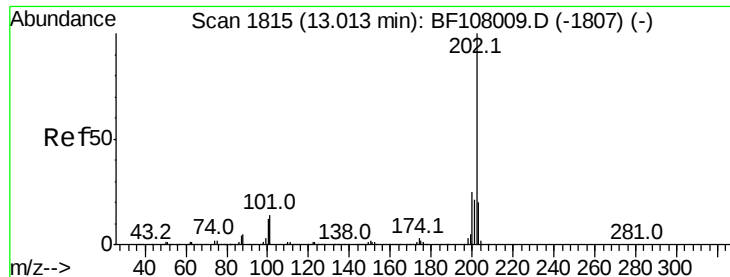
Acq: 23 Aug 2018 3:32

Tgt Ion:	240	Resp:	309305
Ion Ratio	Lower	Upper	
240	100		
120	10.4	9.5	14.3
236	26.6	20.7	31.1



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 18.679 ng/mL

RT: 13.01 min Scan# 1814

Delta R.T. 0.01 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Instrument :

BNA_F

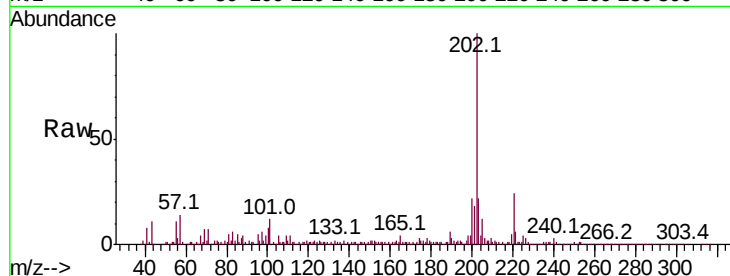
ClientSampleId :

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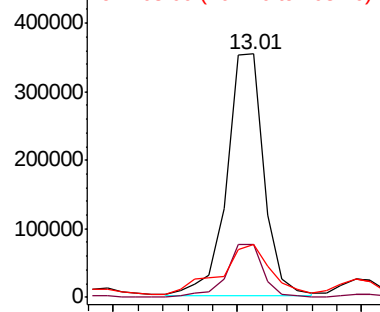
Tot Ion:	202	Resp:	365772
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	21.9	14.3	21.5#

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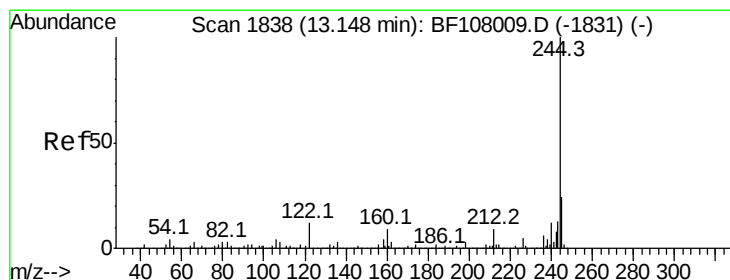
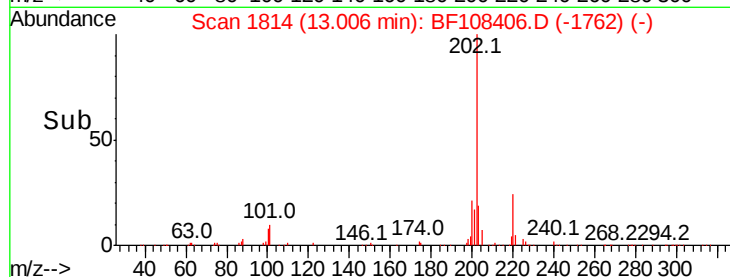
Sohil
8/23/2018 3:43:38 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 7.113 ng/mL

RT: 13.13 min Scan# 1835

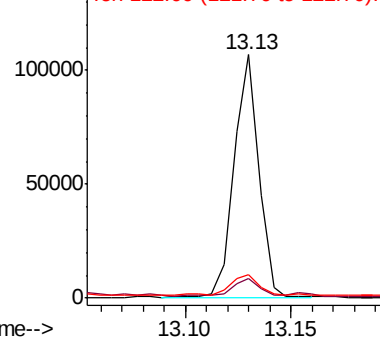
Delta R.T. -0.00 min

Lab File: BF108406.D

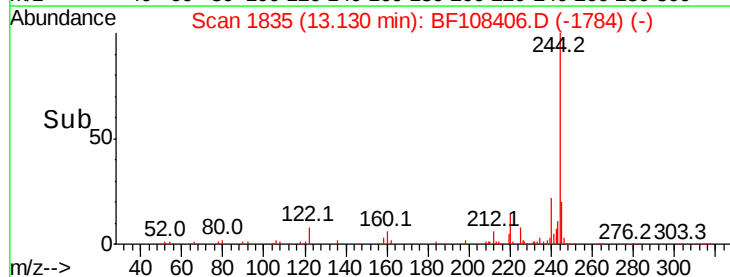
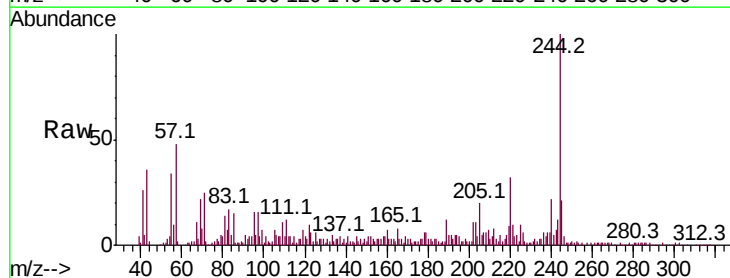
Acq: 23 Aug 2018 3:32

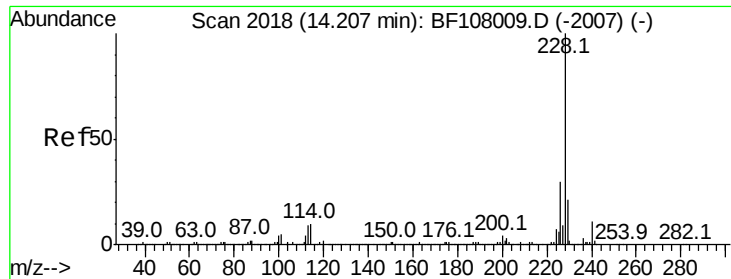
Tgt Ion:	244	Resp:	86533
Ion Ratio	Lower	Upper	
244	100		
212	7.9	5.4	8.0
122	9.7	11.0	16.4#

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





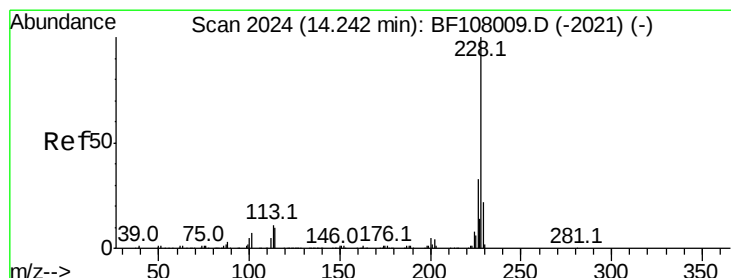
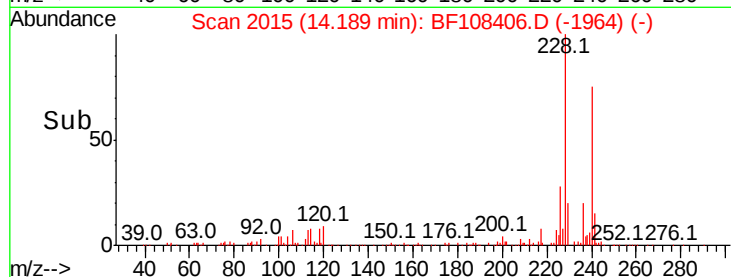
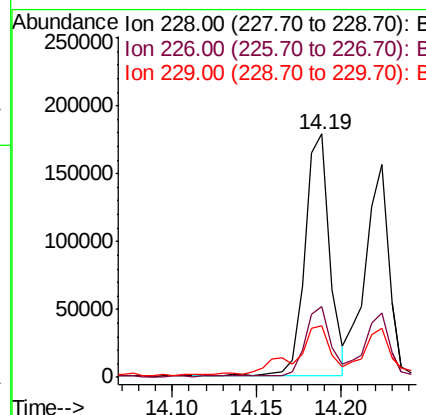
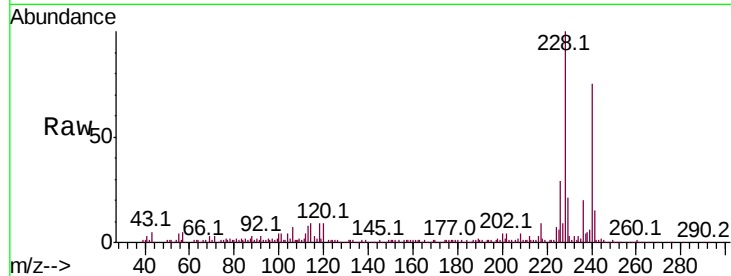
#80
Benzo(a)anthracene
Concen: 10.295 ng
RT: 14.19 min Scan# 2015
Delta R.T. -0.00 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
EP1-275-UST-SLUDGE

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.3	15.8	23.6

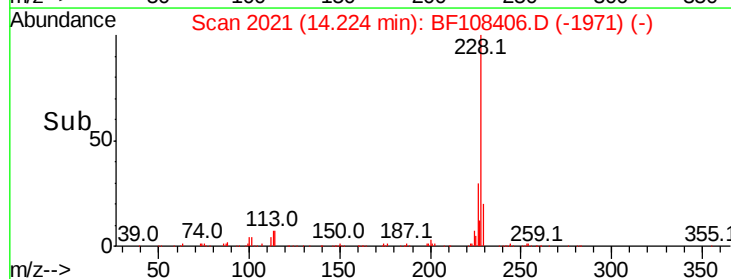
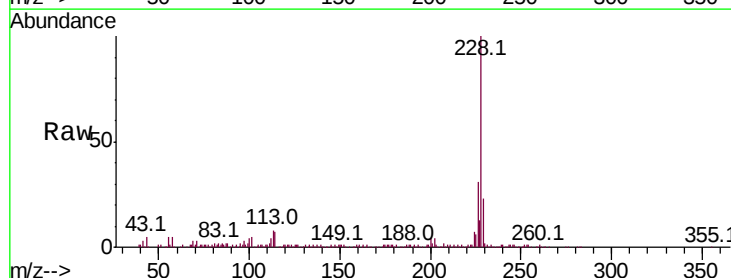
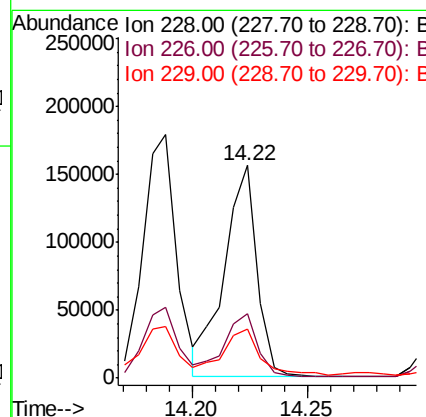
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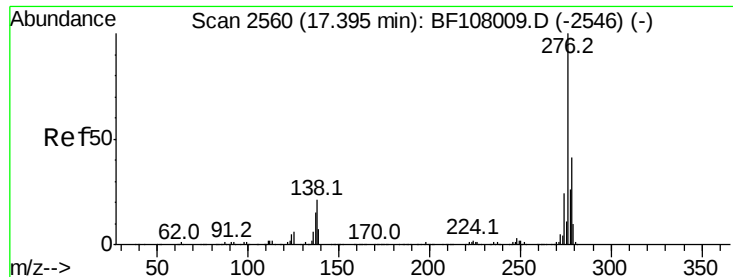
Sohil
8/23/2018 3:43:38 PM



#82
Chrysene
Concen: 9.406 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.9	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.045 ng

RT: 17.35 min Scan# 2553

Delta R.T. -0.02 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Instrument :

BNA_F

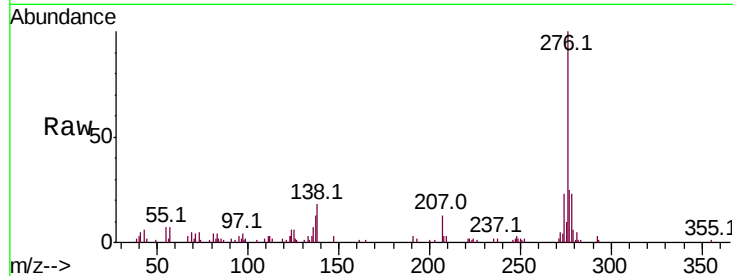
ClientSampleId :

EP1-275-UST-SLUDGE

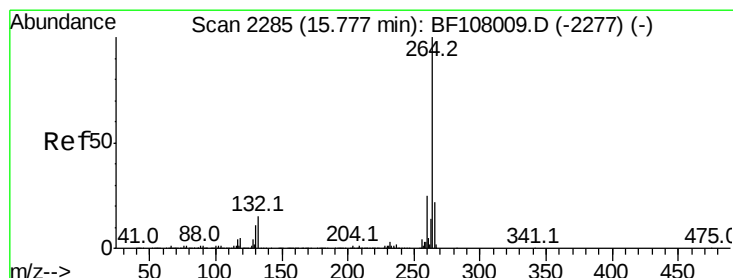
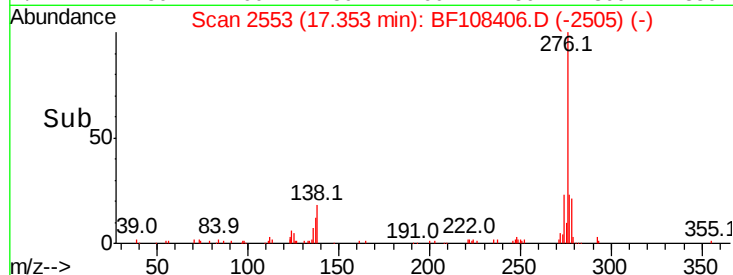
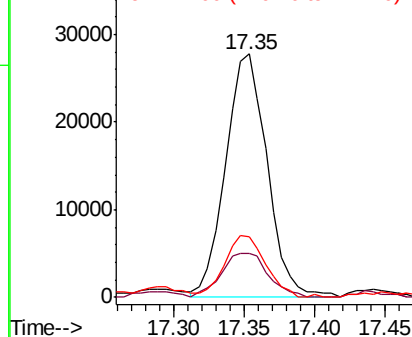
Tot Ion:	276	Resp:	57038
Ion Ratio	Lower	Upper	
276	100		
138	20.4	25.0	37.6#
277	24.6	20.1	30.1

Manual Integrations
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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

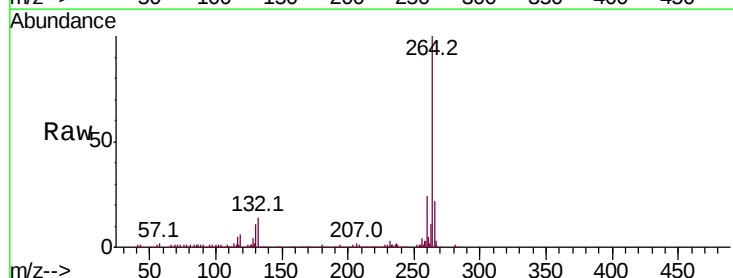
RT: 15.75 min Scan# 2280

Delta R.T. -0.01 min

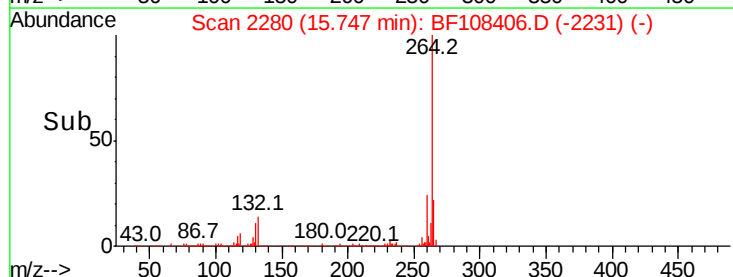
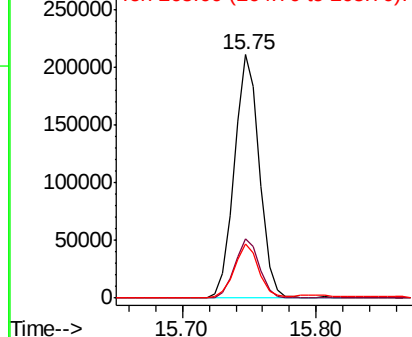
Lab File: BF108406.D

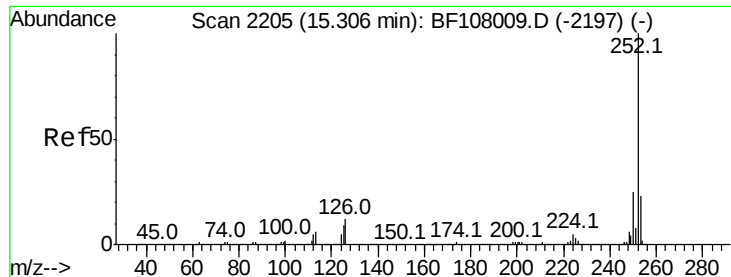
Acq: 23 Aug 2018 3:32

Tgt Ion:	264	Resp:	276881
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.2	28.8
265	22.2	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.523 ng m

RT: 15.28 min Scan# 2201

Delta R.T. -0.01 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Instrument :

BNA_F

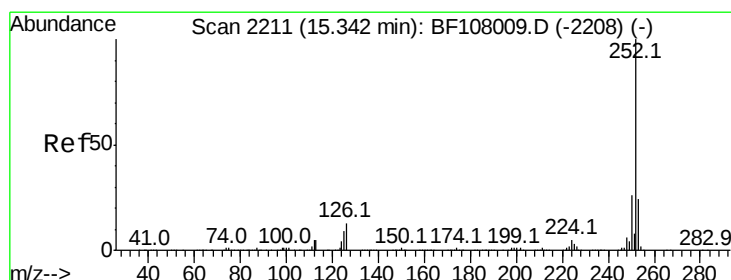
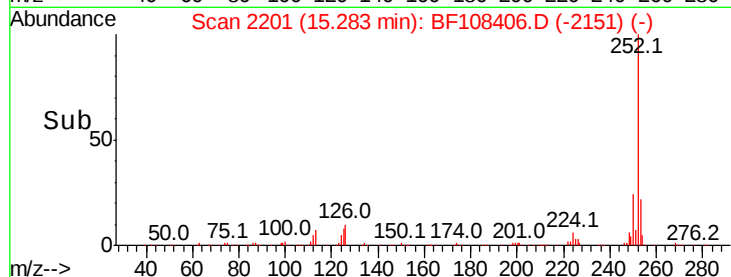
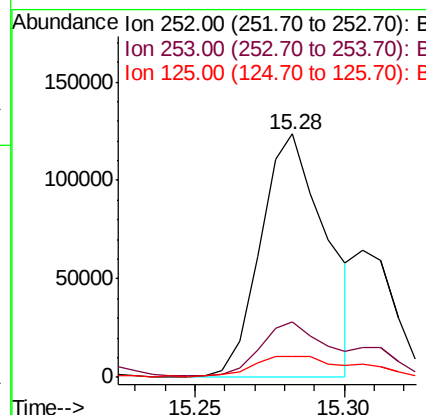
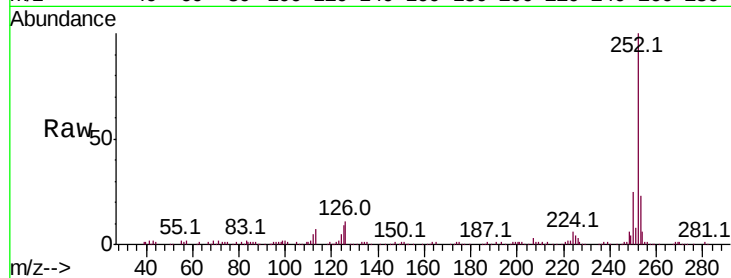
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	8.5	9.0	13.6#

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#88

Benzo(k)fluoranthene

Concen: 3.896 ng m

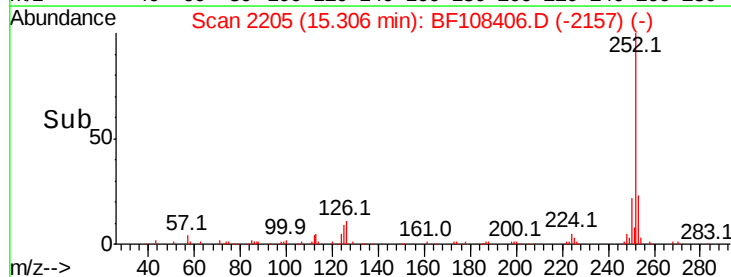
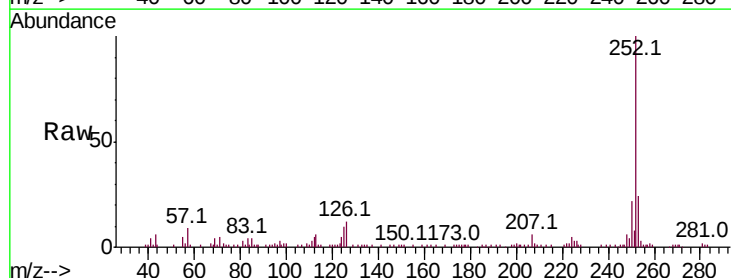
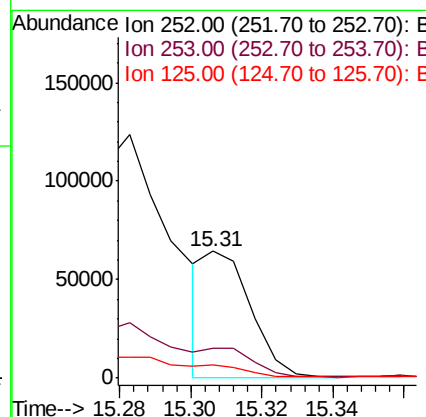
RT: 15.31 min Scan# 2205

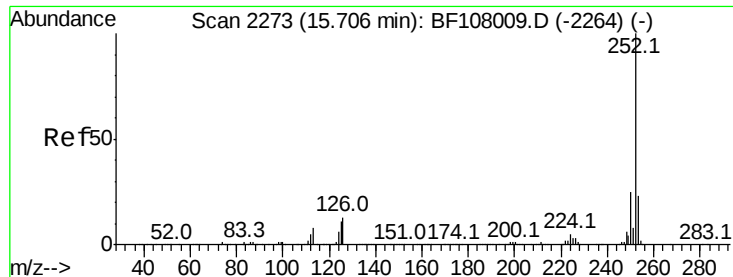
Delta R.T. -0.02 min

Lab File: BF108406.D

Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	10.1	10.2	15.2#





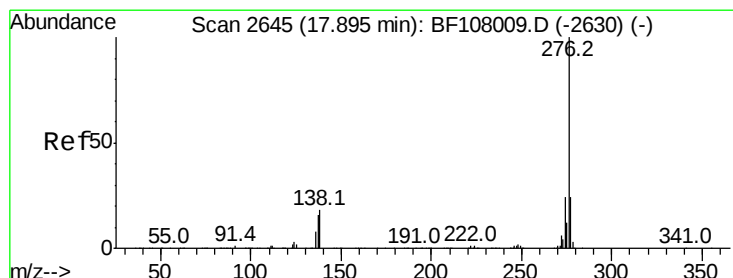
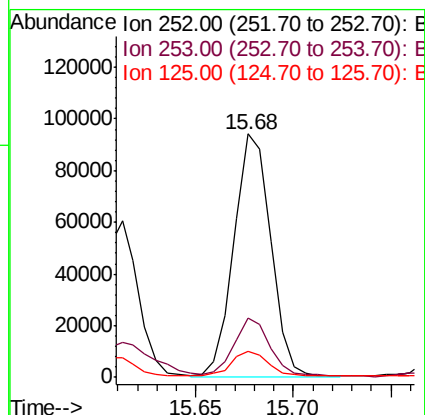
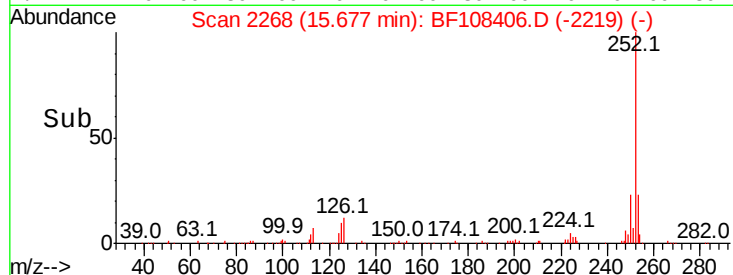
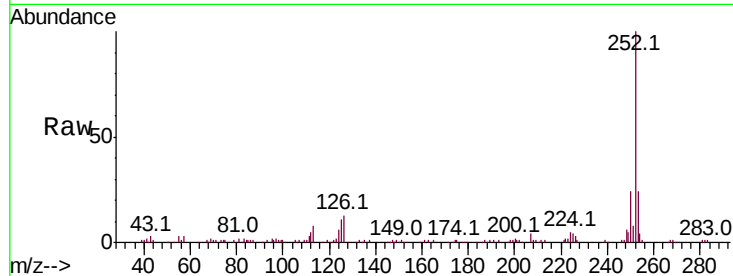
#89
Benzo(a)pyrene
Concen: 8.341 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Instrument :
BNA_F
ClientSampleId :
EP1-275-UST-SLUDGE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	10.7	9.8	14.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 3.828 ng m
RT: 17.84 min Scan# 2636
Delta R.T. -0.02 min
Lab File: BF108406.D
Acq: 23 Aug 2018 3:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	17.9	26.9
138	21.8	21.8	32.8#

