

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082318\
 Data File : BF108458.D
 Acq On : 24 Aug 2018 9:06
 Operator : JU/SJ
 Sample : J4535-06
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081618-NSW-15-038

Manual Integrations
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 8/24/2018 12:14:37 PM

Quant Time: Aug 24 11:11:04 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	135616	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	486598	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	208602	20.00	ng	-0.01
63) Phenanthrene-d10	11.54	188	313588	20.00	ng	0.00
75) Chrysene-d12	14.21	240	235742	20.00	ng	0.00
86) Perylene-d12	15.78	264	187771	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	797846	106.51	ng	0.00
7) Phenol-d6	6.62	99	1071763	107.67	ng	0.00
23) Nitrobenzene-d5	7.56	82	693180	79.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.84	330	202871	97.50	ng	0.00
44) 2-Fluorobiphenyl	9.36	172	1174563	90.40	ng	0.00
78) Terphenyl-d14	13.13	244	822276	88.69	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.30	128	89491	4.044	ng	99
37) 2-Methylnaphthalene	9.00	142	131357	8.390	ng	98
49) Dimethylphthalate	9.75	163	90363	6.219	ng	# 98
51) Acenaphthene	10.08	154	25281	2.148	ng	94
54) Dibenzofuran	10.25	168	43806	2.569	ng	# 86
57) Fluorene	10.60	166	31421	2.328	ng	# 92
70) Phenanthrene	11.57	178	359776	24.324	ng	99
71) Anthracene	11.62	178	76542	5.049	ng	98
72) Carbazole	11.77	167	34991	2.598	ng	# 87
74) Fluoranthene	12.77	202	514741	31.888	ng	95
77) Pyrene	13.00	202	478346	32.050	ng	99
80) Benzo(a)anthracene	14.19	228	274307	20.275	ng	# 95
82) Chrysene	14.23	228	301264m	24.289	ng	
85) Indeno(1,2,3-cd)pyrene	17.39	276	121838	11.337	ng	# 87
87) Benzo(b)fluoranthene	15.31	252	326143m	29.068	ng	
88) Benzo(k)fluoranthene	15.33	252	88098m	8.542	ng	
89) Benzo(a)pyrene	15.71	252	193702	19.279	ng	# 87
90) Dibenzo(a,h)anthracene	17.39	278	33284	4.004	ng	# 71
91) Benzo(a,h,i)perylene	17.88	276	121926	14.895	ng	# 90

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

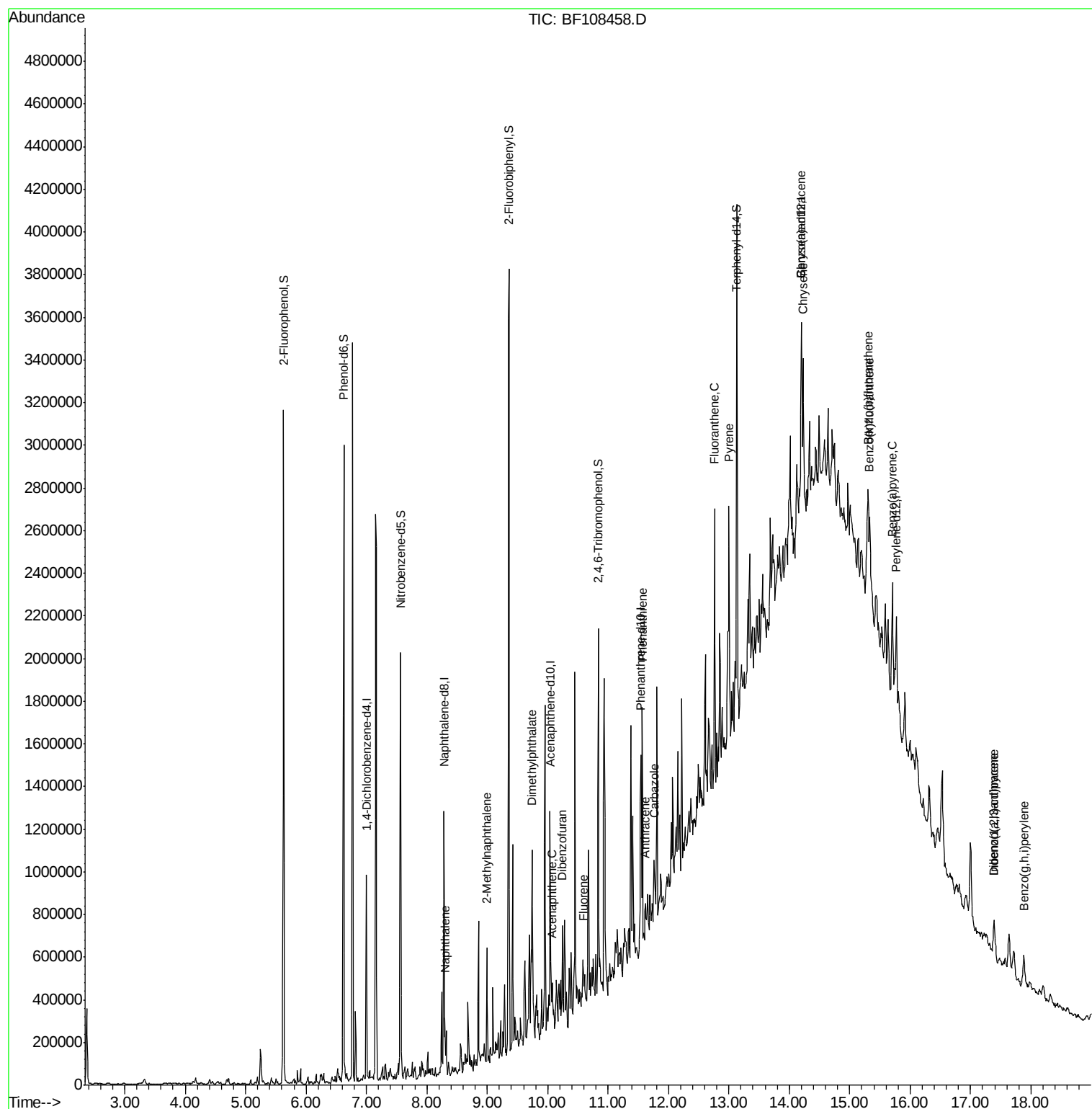
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082318\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.00 min Scan# 793

Delta R.T. -0.01 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

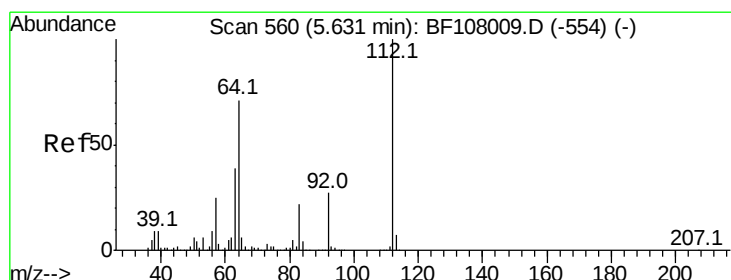
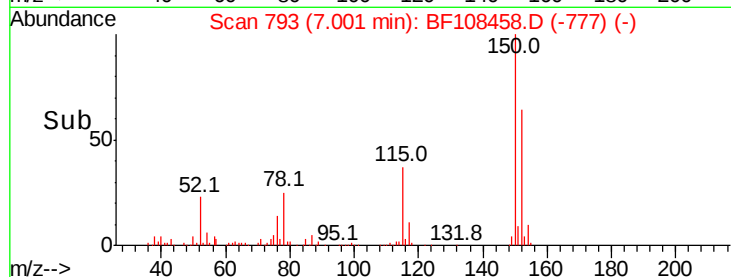
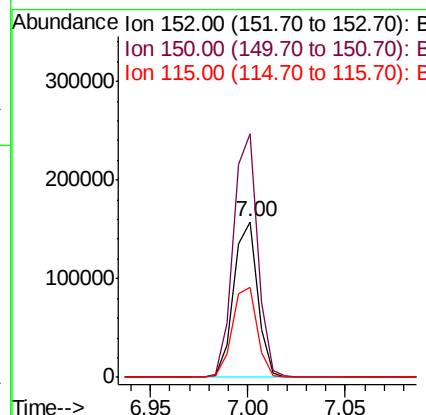
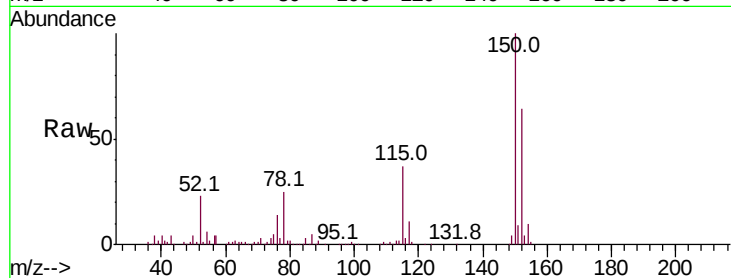
ClientSampleId :

RA-081618-NSW-15-038

Tot Ion:	152	Resp:	135616
Ion Ratio	Lower	Upper	
152	100		
150	156.3	124.6	186.8
115	57.6	50.1	75.1

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#5

2-Fluorophenol

Concen: 106.511 ng

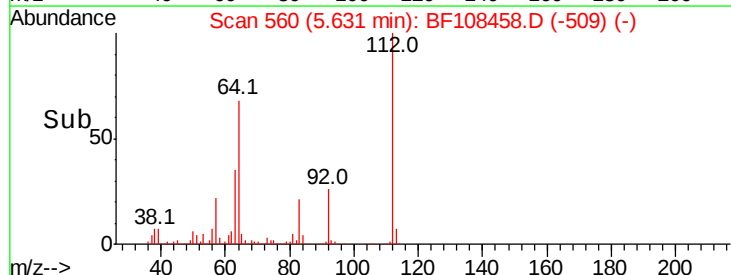
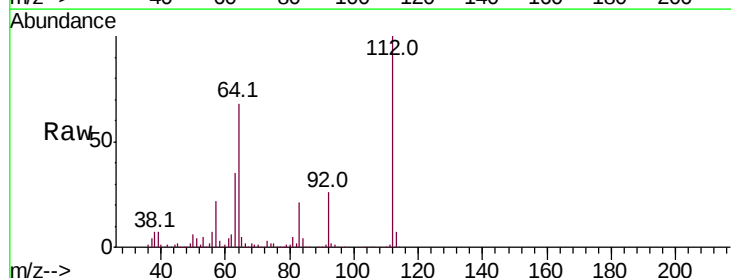
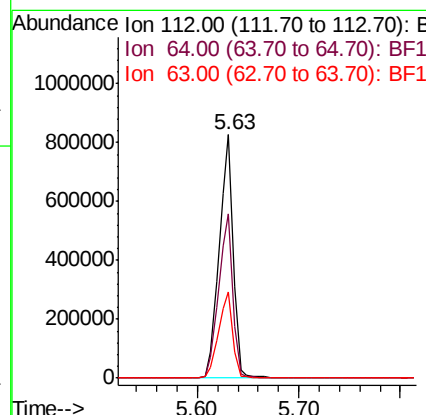
RT: 5.63 min Scan# 560

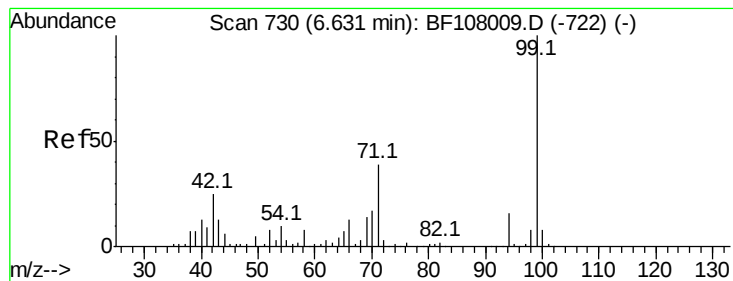
Delta R.T. -0.00 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Tgt Ion:	112	Resp:	797846
Ion Ratio	Lower	Upper	
112	100		
64	67.7	47.9	71.9
63	35.5	23.7	35.5





#7

Phenol-d6

Concen: 107.670 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

ClientSampleId :

RA-081618-NSW-15-038

Tot Ion: 99 Resp: 1071763

Ion Ratio Lower Upper

99 100

42 21.9 14.5 21.7#

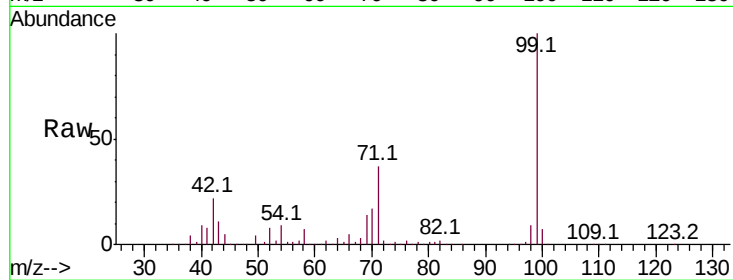
71 36.6 25.4 38.0

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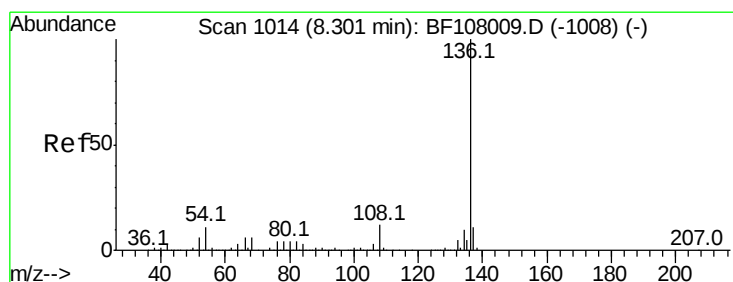
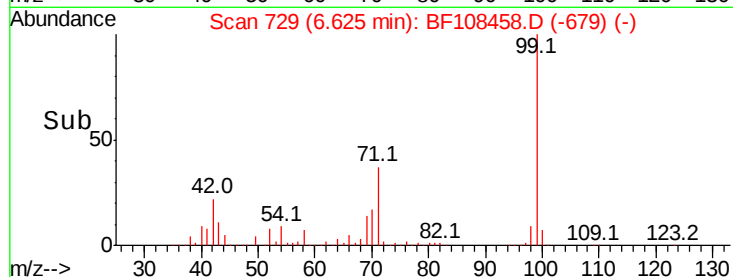
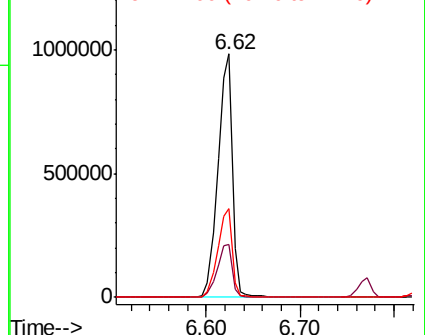
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Tgt Ion: 136 Resp: 486598

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 9.6 6.6 9.8

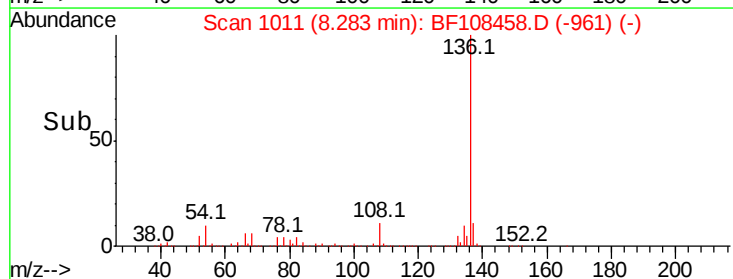
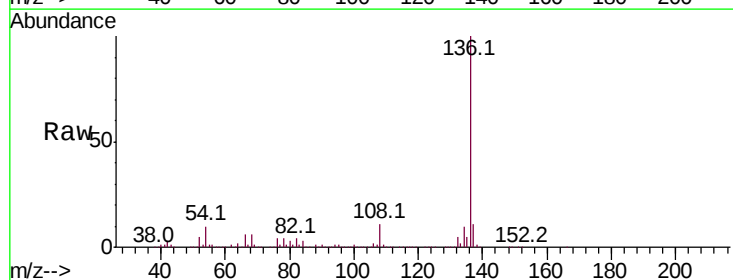
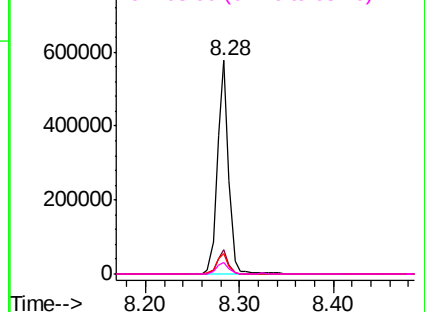
68 5.7 5.0 7.4

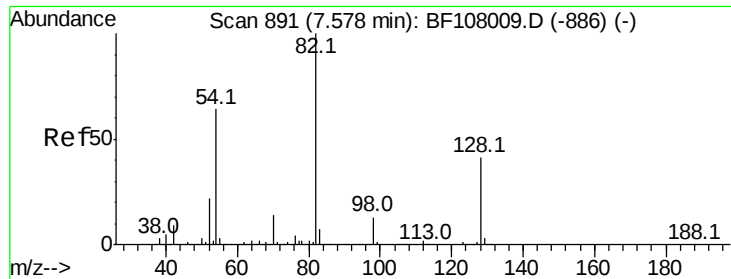
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





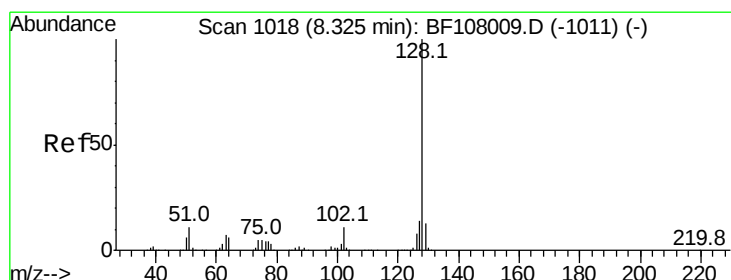
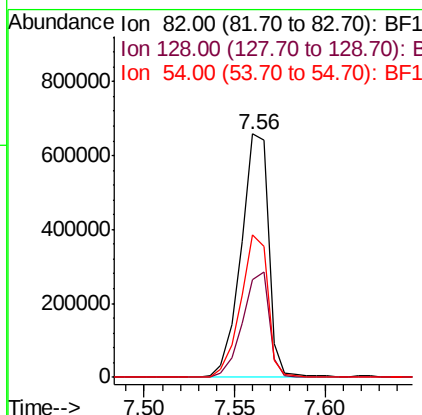
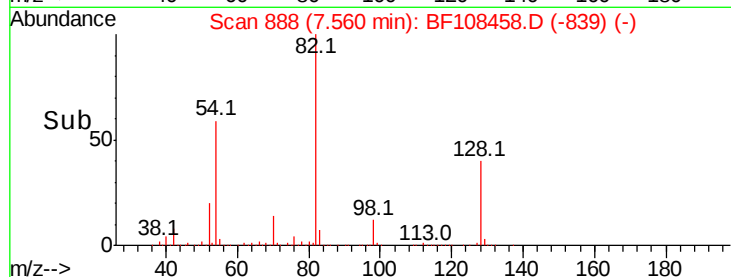
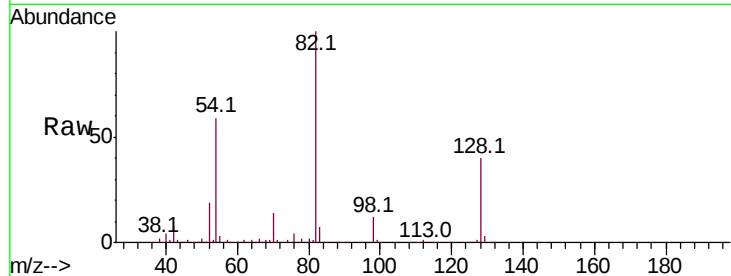
#23
 Nitrobenzene-d5
 Concen: 79.492 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.01 min
 Lab File: BF108458.D
 Acq: 24 Aug 2018 9:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081618-NSW-15-038

Tot Ion	Ratio	Resp	Lower	Upper
82	100	693180		
128	40.2	36.1	54.1	
54	58.7	41.4	62.2	

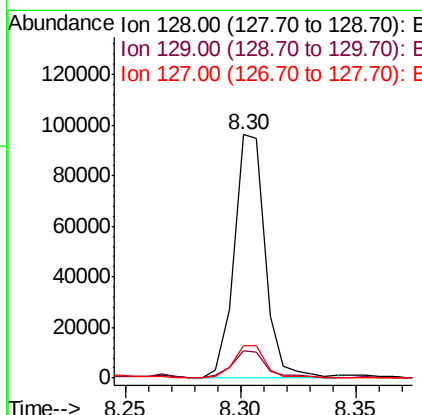
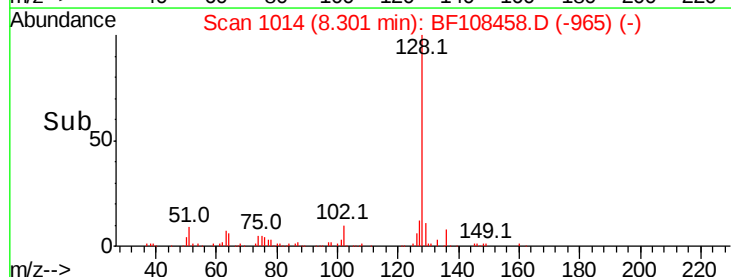
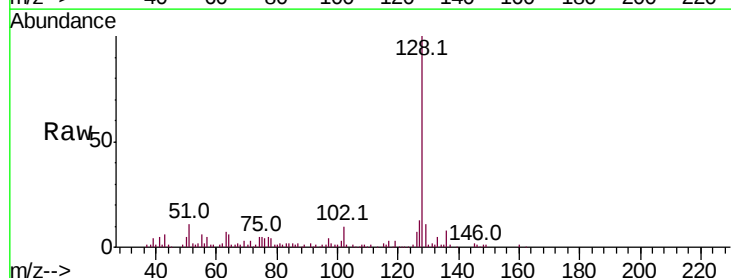
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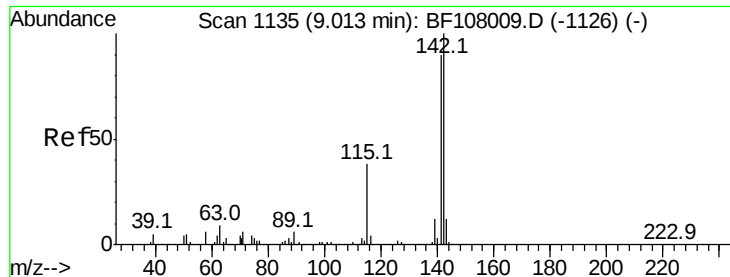
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#31
 Naphthalene
 Concen: 4.044 ng
 RT: 8.30 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BF108458.D
 Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	89491		
129	11.4	8.8	13.2	
127	13.1	10.9	16.3	





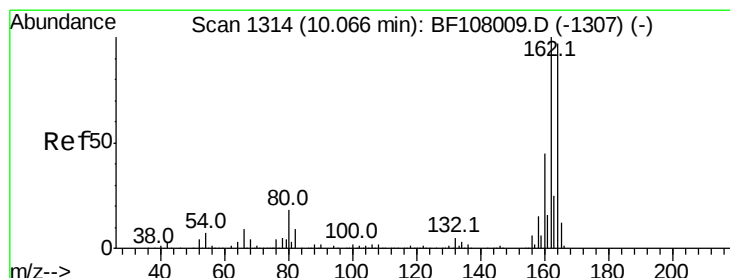
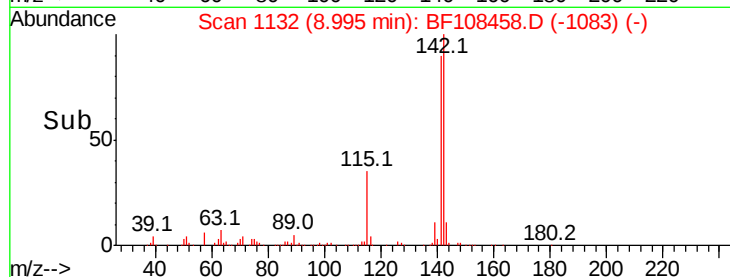
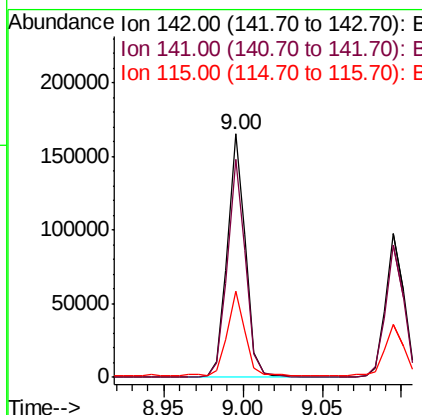
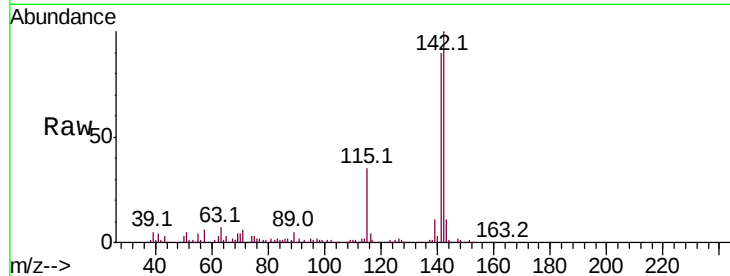
#37
2-Methylnaphthalene
Concen: 8.390 ng
RT: 9.00 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.8	106.2
115	35.3	26.1	39.1

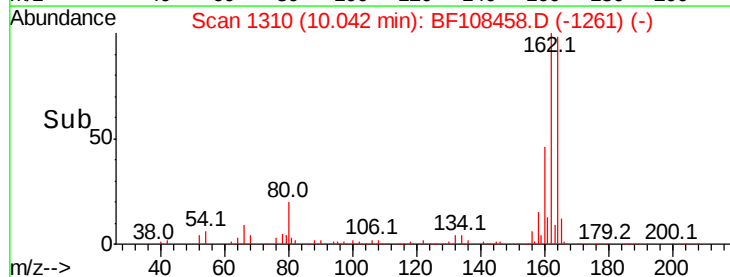
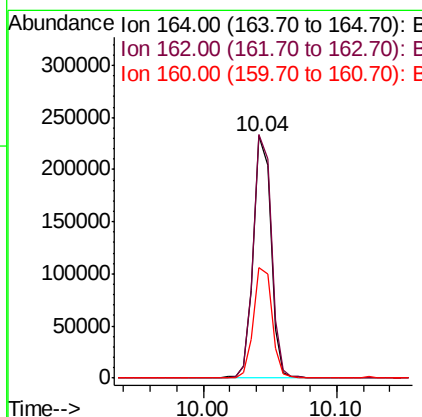
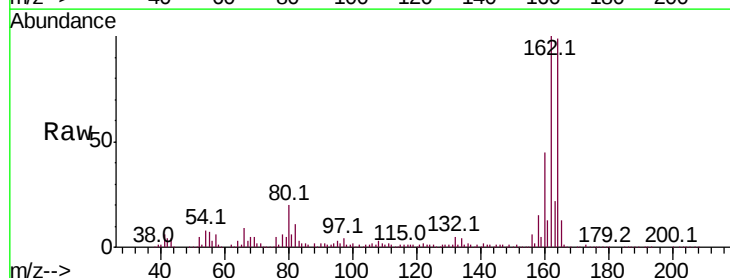
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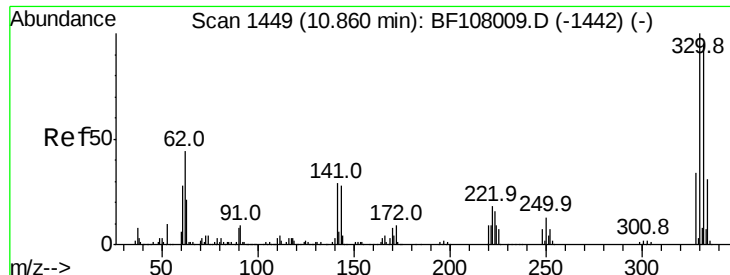
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.04 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.6	86.1	129.1
160	45.7	38.3	57.5





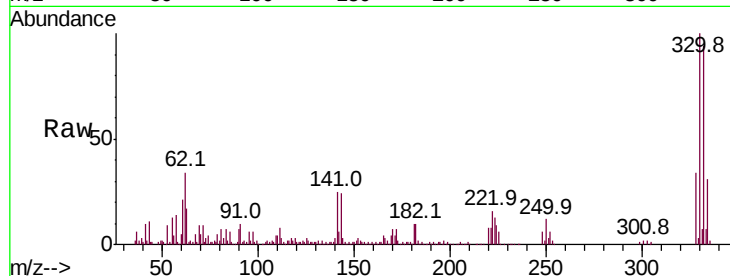
#41
 2,4,6-Tribromophenol
 Concen: 97.499 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.01 min
 Lab File: BF108458.D
 Acq: 24 Aug 2018 9:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081618-NSW-15-038

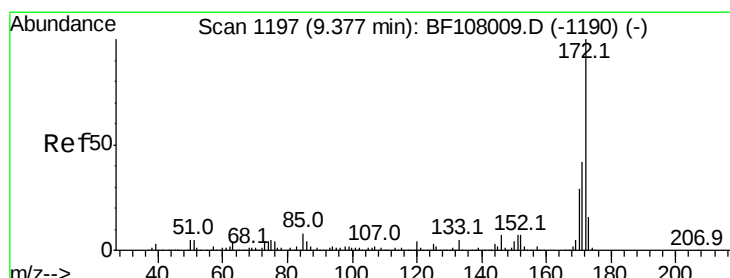
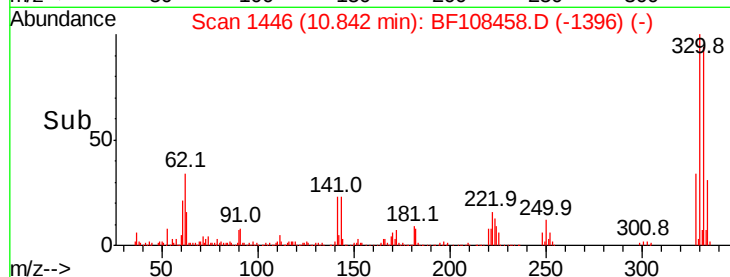
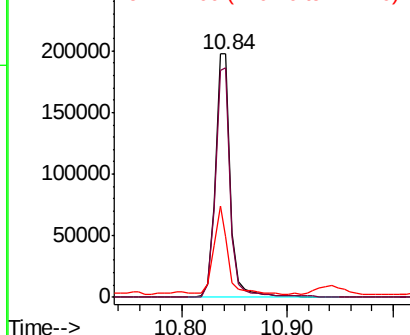
Tot Ion	Ratio	Resp	Lower	Upper
330	100	202871		
332	94.4	77.0	115.6	
141	33.1	29.9	44.9	

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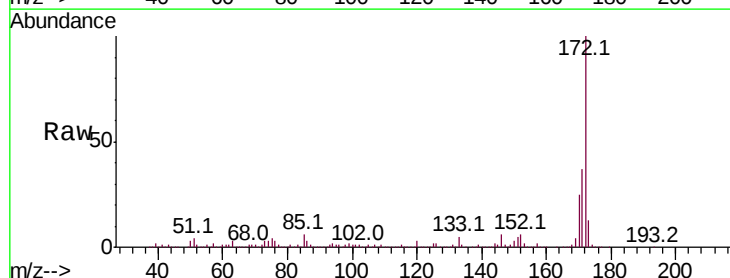


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

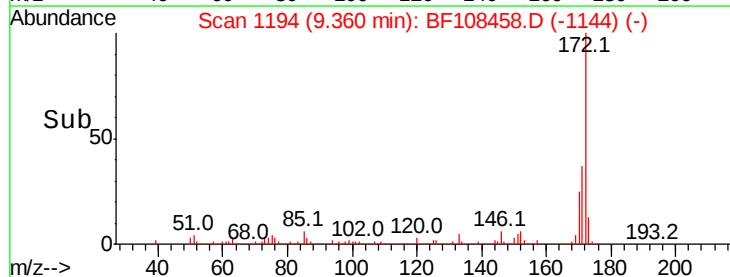
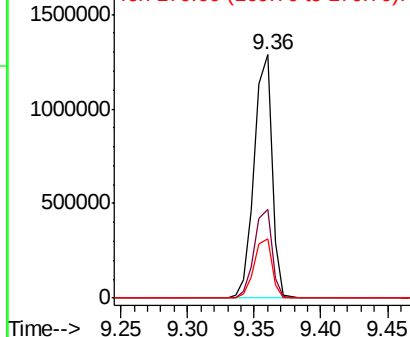


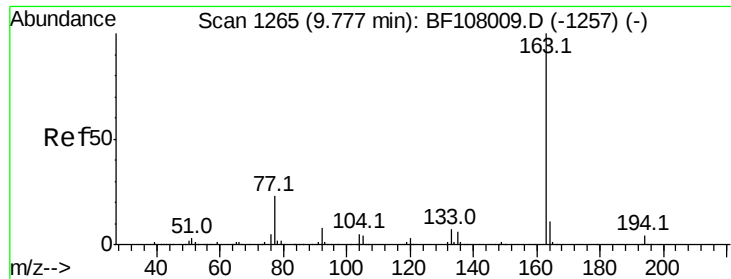
#44
 2-Fluorobiphenyl
 Concen: 90.398 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BF108458.D
 Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1174563		
171	36.6	29.7	44.5	
170	24.5	19.6	29.4	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





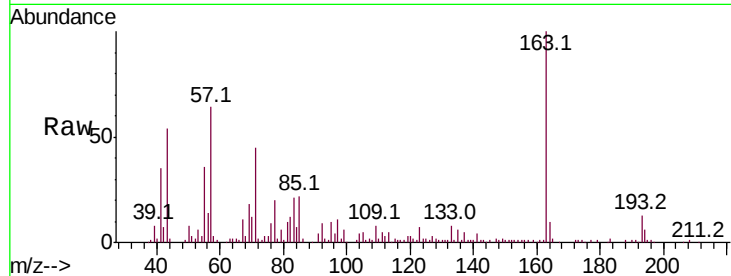
#49
Dimethylphthalate
Concen: 6.219 ng
RT: 9.75 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	6.0	2.7	4.1#	
164	10.2	8.2	12.2	

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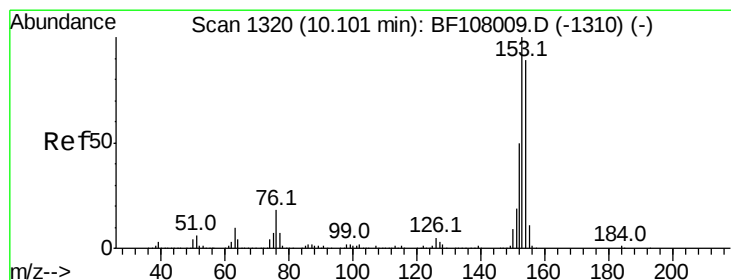
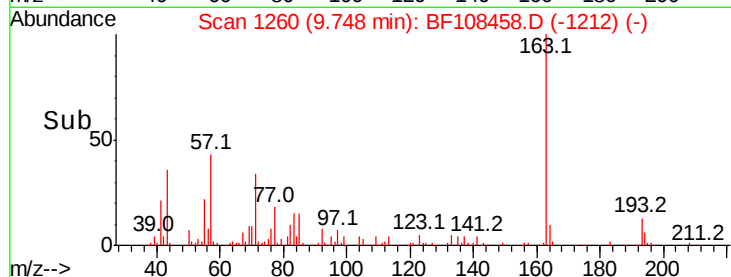
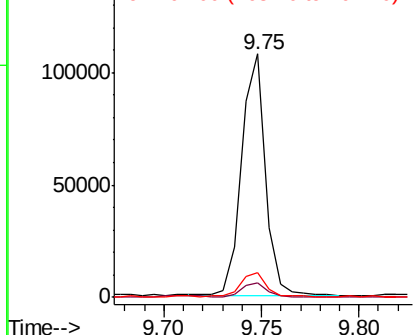


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 2.148 ng
RT: 10.08 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

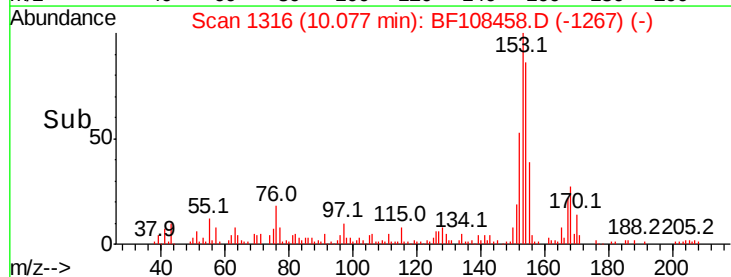
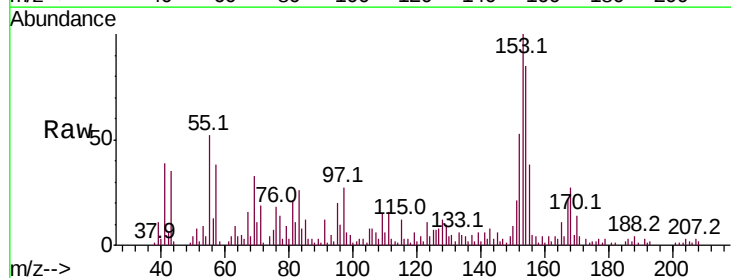
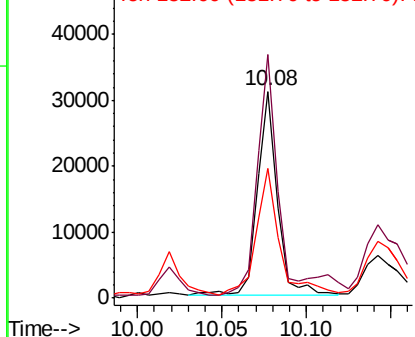
Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	117.6	91.2	136.8	
152	62.5	43.8	65.8	

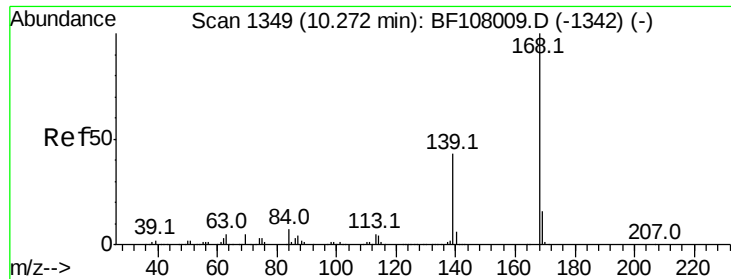
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





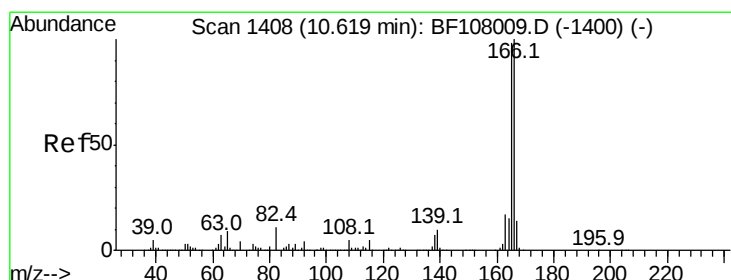
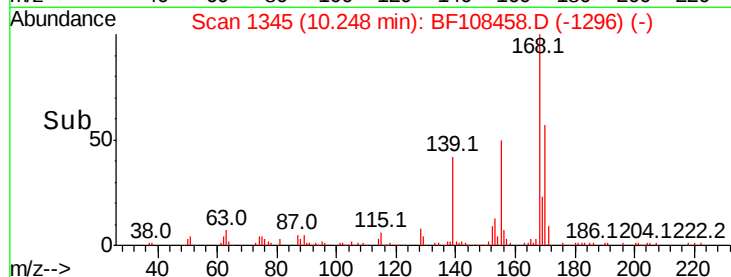
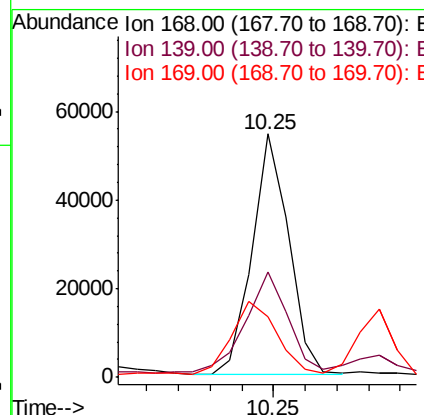
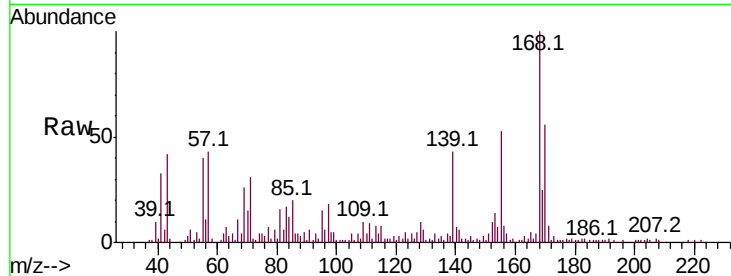
#54
Dibenzofuran
Concen: 2.569 ng
RT: 10.25 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
168	100		
139	43.1	30.1	45.1
169	25.0	10.9	16.3

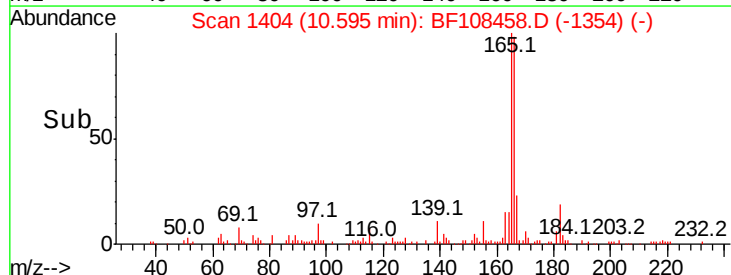
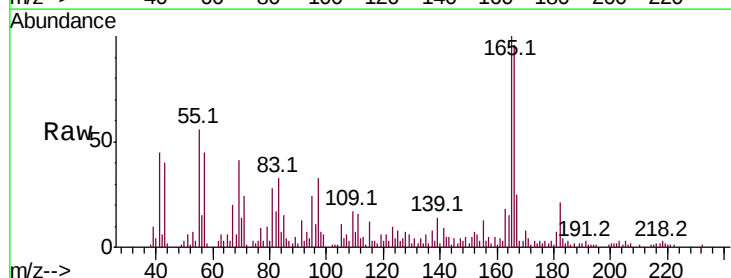
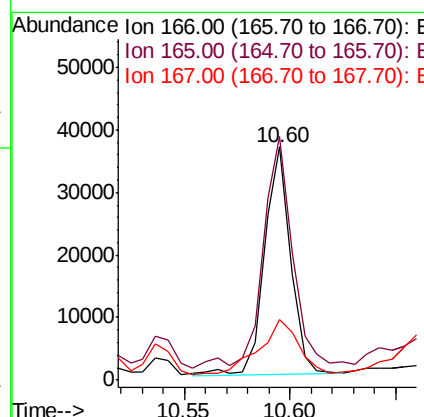
Manual Integrations
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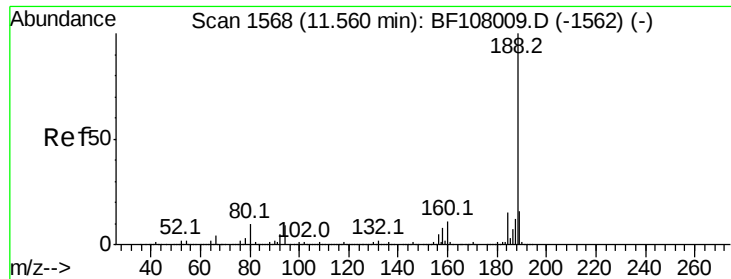
Sohil
8/24/2018 12:14:37 PM



#57
Fluorene
Concen: 2.328 ng
RT: 10.60 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Lower	Upper
166	100		
165	104.6	79.8	119.8
167	25.8	10.6	16.0





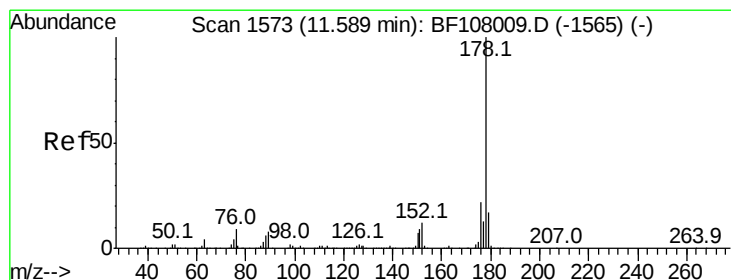
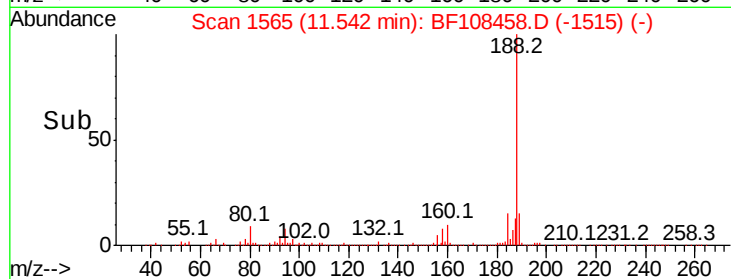
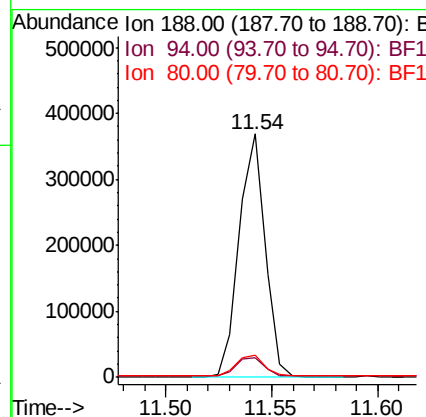
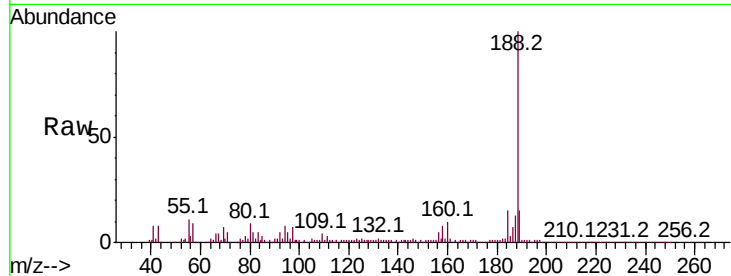
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.54 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.3	8.5	12.7#
80	9.1	9.2	13.8#

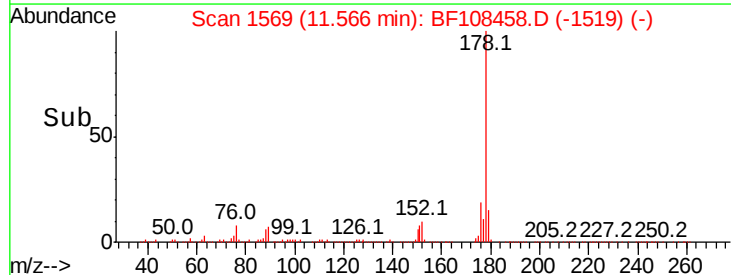
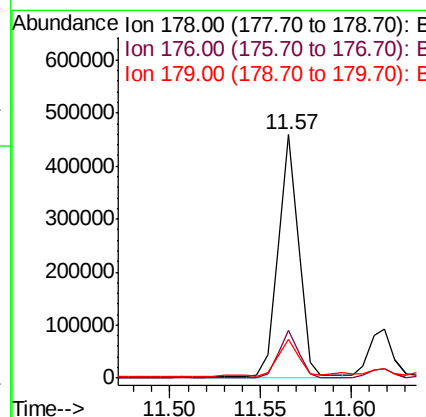
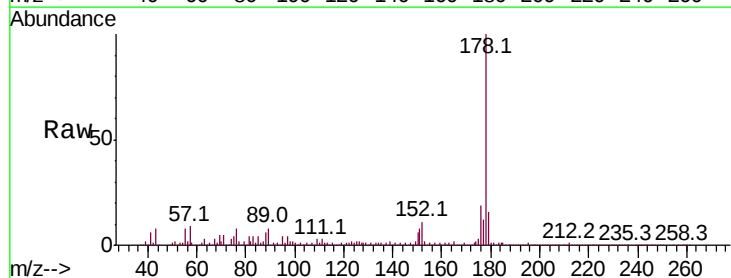
Manual Integrations
APPROVED

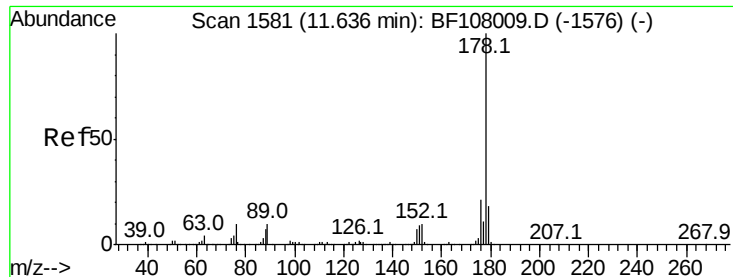
Sohil
8/24/2018 12:14:37 PM



#70
Phenanthrene
Concen: 24.324 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.9	13.0	19.6





#71

Anthracene

Concen: 5.049 ng

RT: 11.62 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

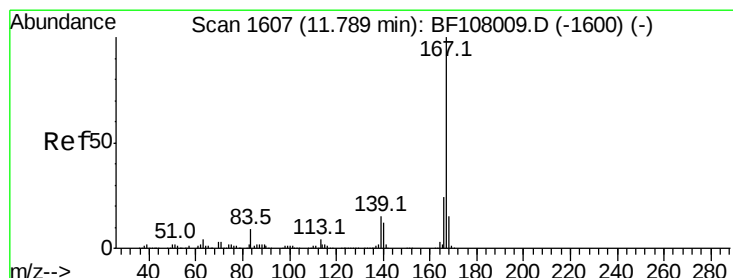
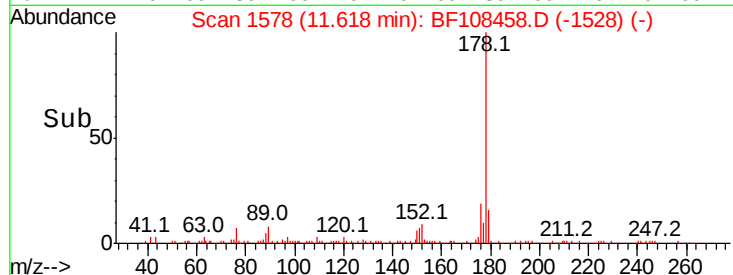
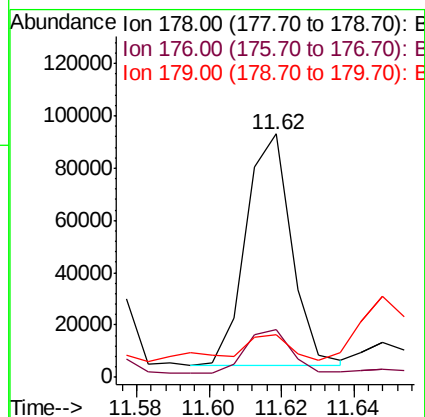
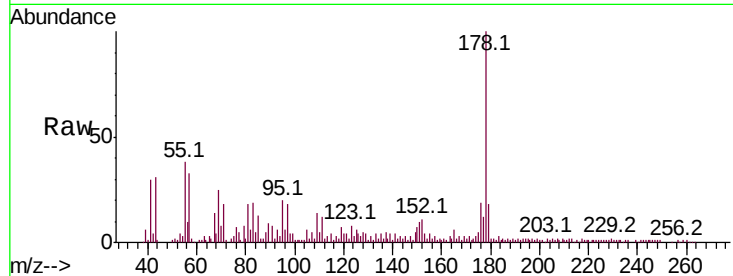
ClientSampleId :

RA-081618-NSW-15-038

Tot Ion:178	Resp:	76542
Ion Ratio	Lower	Upper
178 100		
176 19.4	15.4	23.2
179 17.7	12.6	19.0

Manual Integrations
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#72

Carbazole

Concen: 2.598 ng

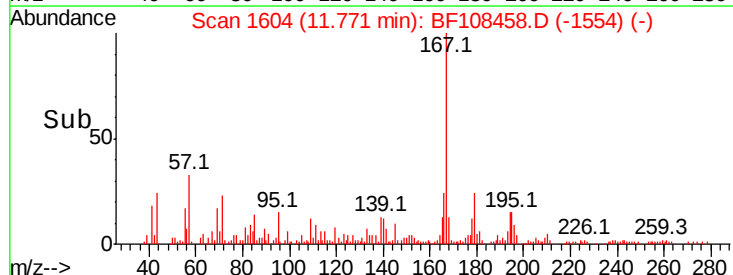
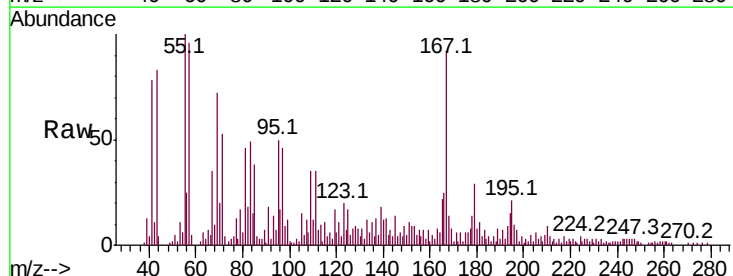
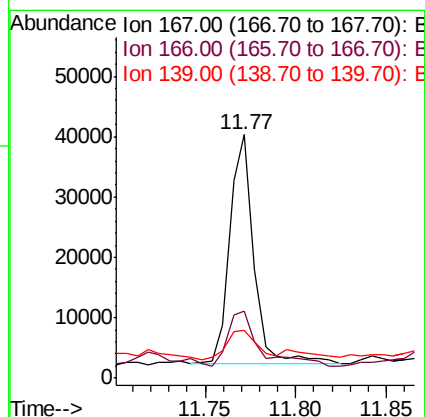
RT: 11.77 min Scan# 1604

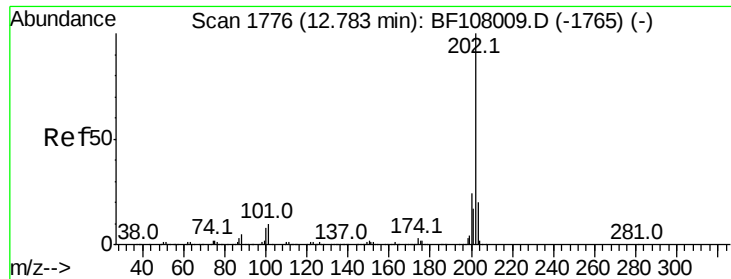
Delta R.T. -0.01 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Tgt Ion:167	Resp:	34991
Ion Ratio	Lower	Upper
167 100		
166 27.4	17.6	26.4#
139 19.6	10.9	16.3#





#74

Fluoranthene

Concen: 31.888 ng

RT: 12.77 min Scan# 1773

Delta R.T. -0.00 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

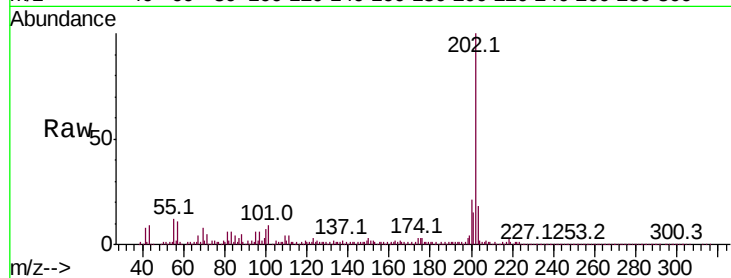
ClientSampleId :

RA-081618-NSW-15-038

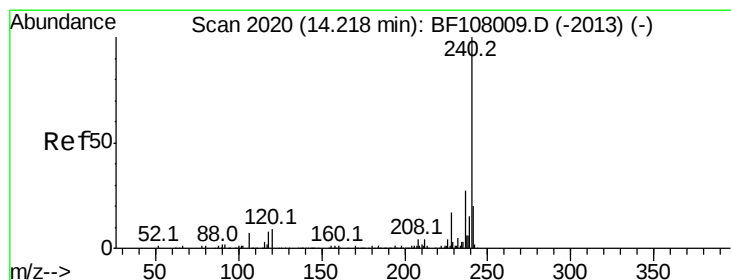
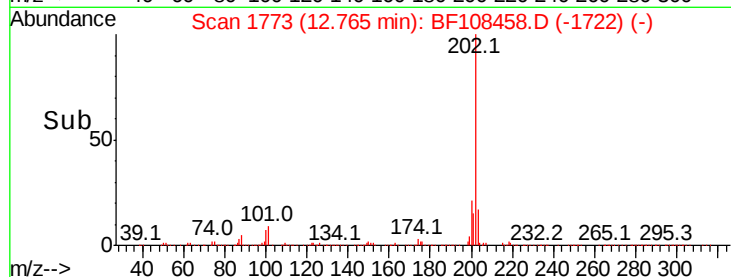
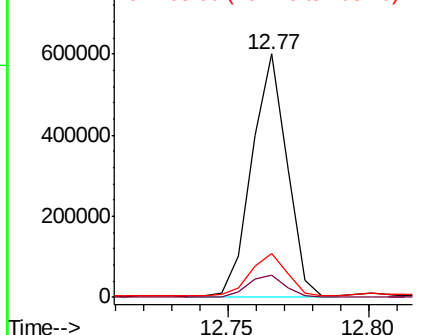
Tot Ion	Ratio	Resp	Lower	Upper
202	100	514741		
101	9.2	0.0	34.1	
203	17.9	0.0	38.1	

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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: 14.21 min Scan# 2018

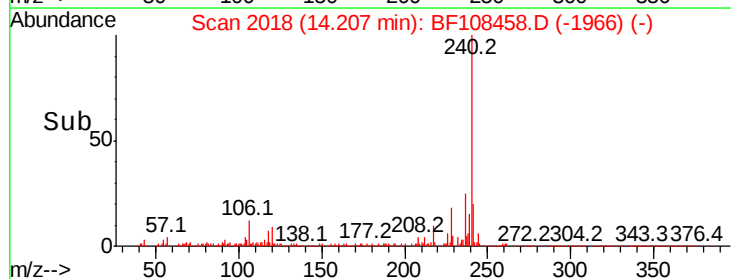
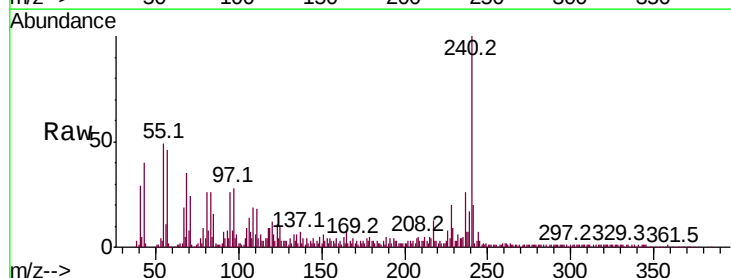
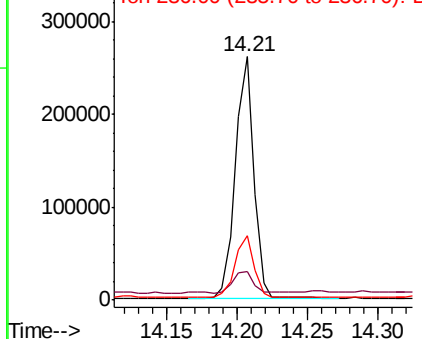
Delta R.T. 0.01 min

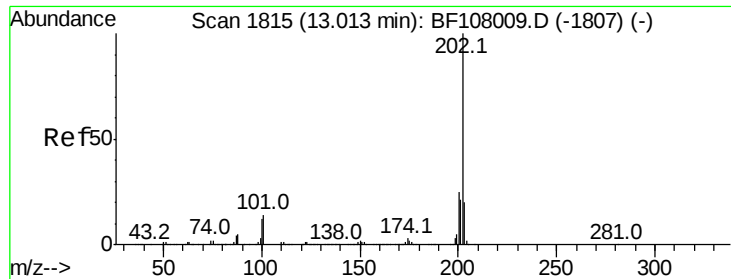
Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	235742		
120	11.8	9.5	14.3	
236	26.4	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: 32.050 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.00 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

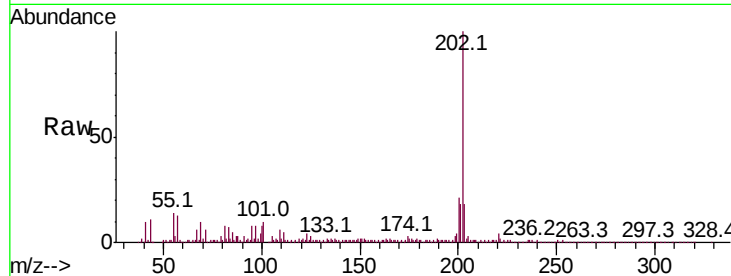
ClientSampleId :

RA-081618-NSW-15-038

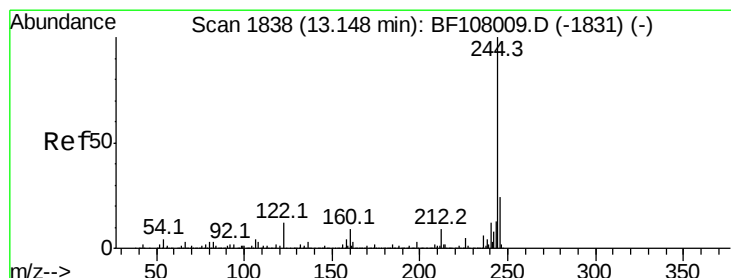
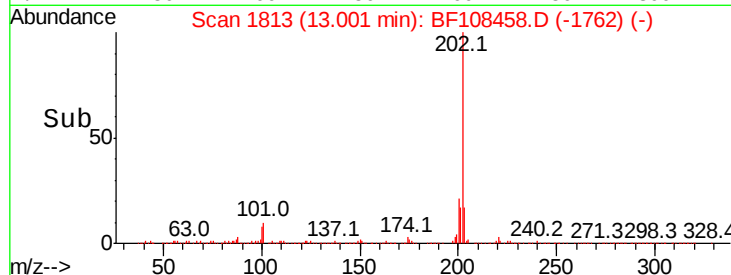
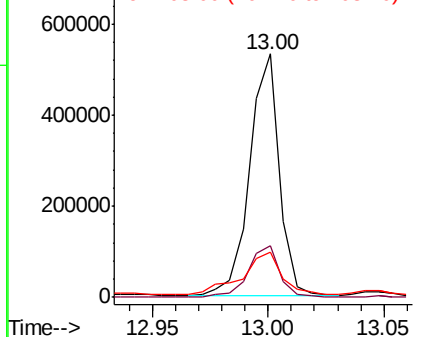
Tot Ion:	202	Resp:	478346
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	18.4	14.3	21.5

Manual Integrations
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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



#78

Terphenyl-d14

Concen: 88.686 ng

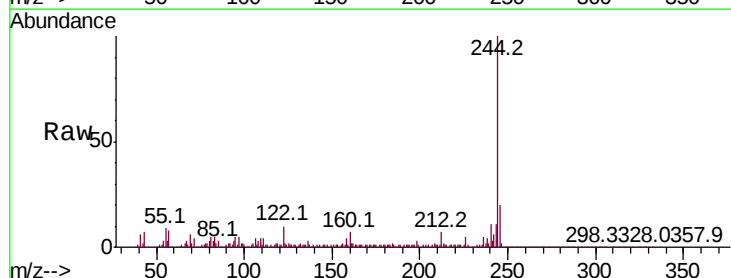
RT: 13.13 min Scan# 1835

Delta R.T. -0.00 min

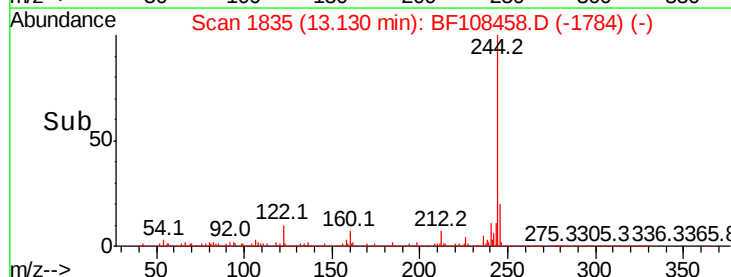
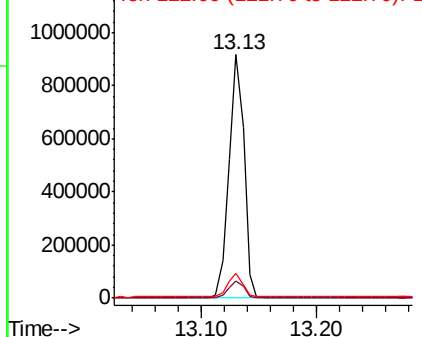
Lab File: BF108458.D

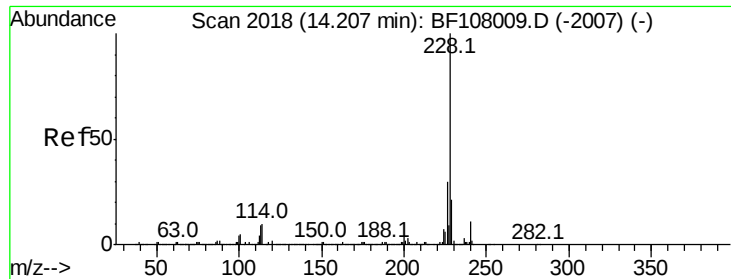
Acq: 24 Aug 2018 9:06

Tgt Ion:	244	Resp:	822276
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.4	8.0
122	10.4	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





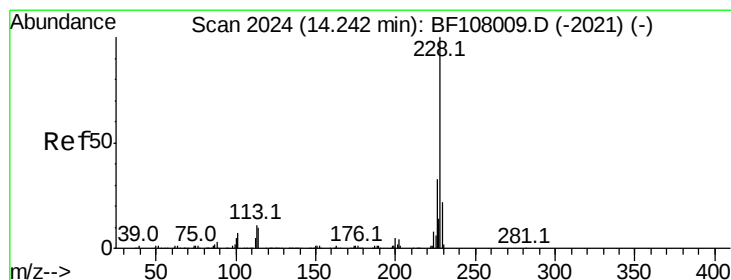
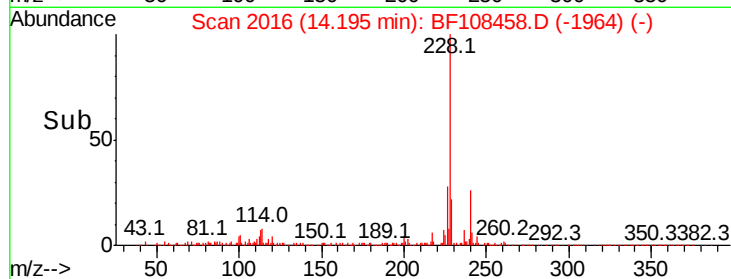
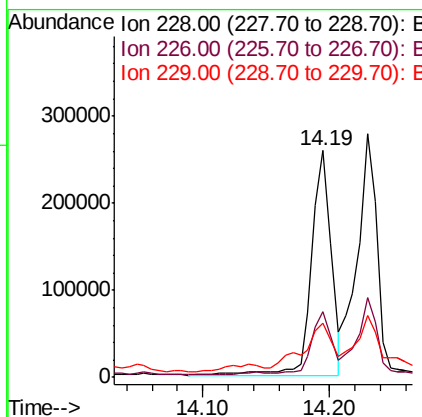
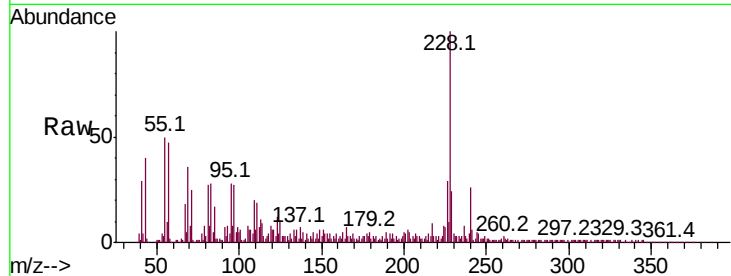
#80
Benzo(a)anthracene
Concen: 20.275 ng
RT: 14.19 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	24.2	15.8	23.6

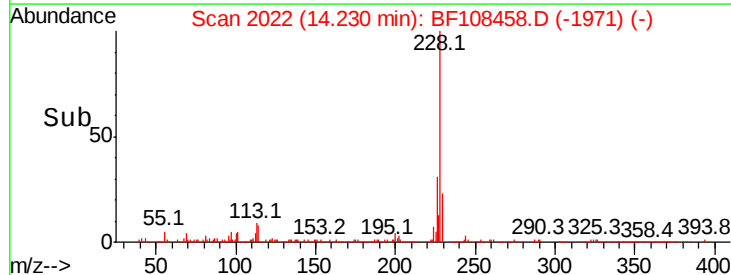
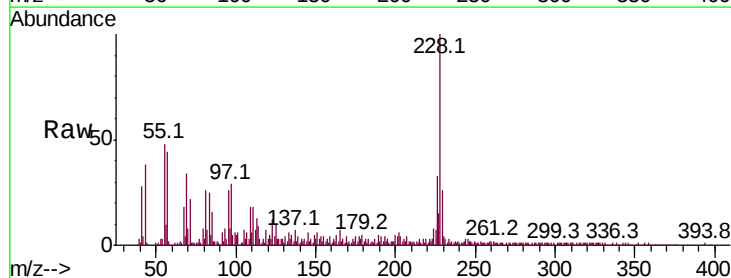
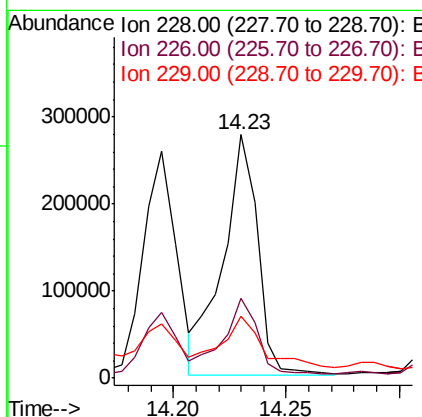
Manual Integrations
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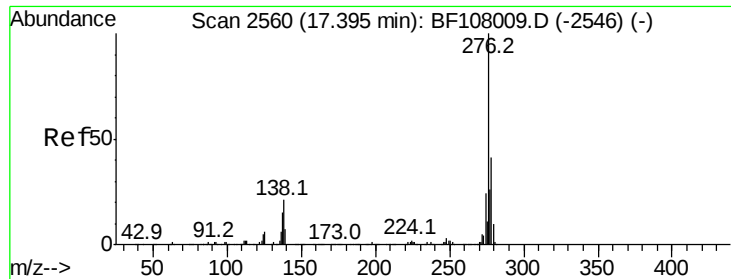
Sohil
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#82
Chrysene
Concen: 24.289 ng m
RT: 14.23 min Scan# 2022
Delta R.T. -0.00 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	25.0	37.6
229	25.6	16.2	24.4





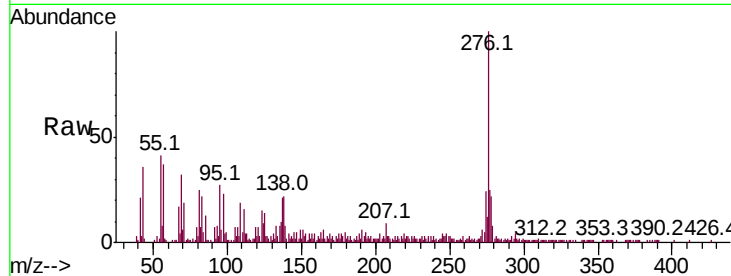
#85
Indeno(1,2,3-cd)pyrene
Concen: 11.337 ng
RT: 17.39 min Scan# 2559
Delta R.T. 0.02 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.3	25.0	37.6#
277	24.9	20.1	30.1

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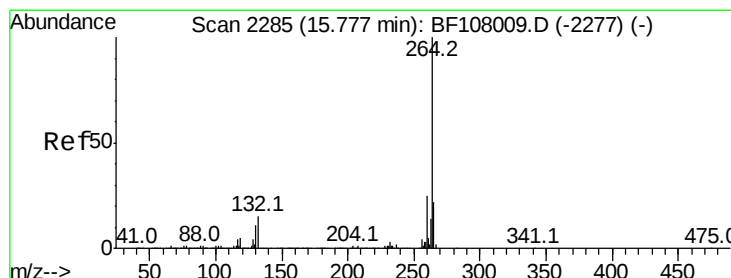
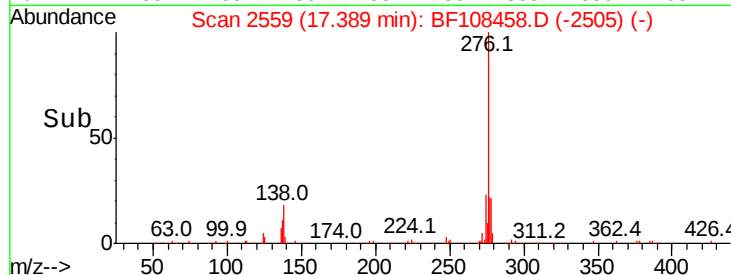
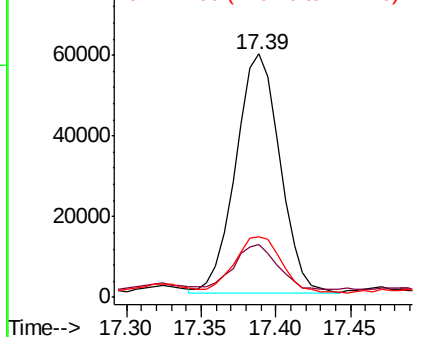


Abundance

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: 15.78 min Scan# 2285
Delta R.T. 0.02 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

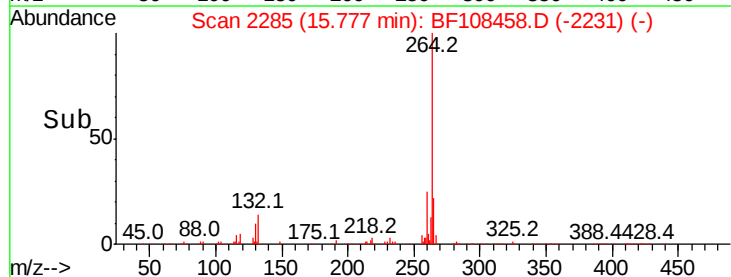
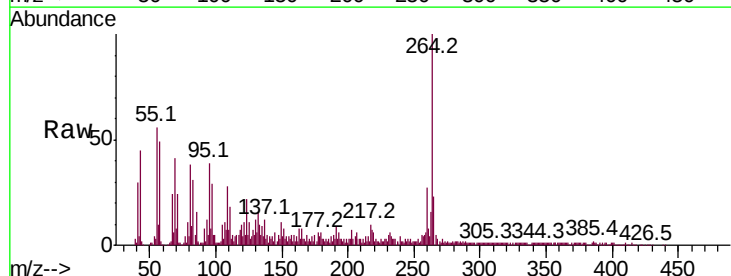
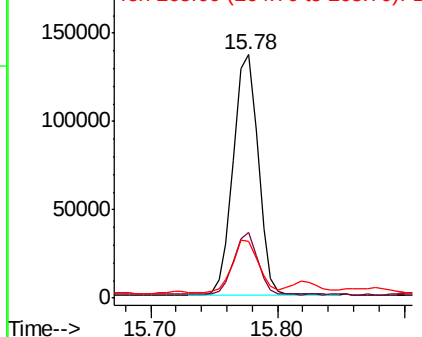
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.9	19.2	28.8
265	23.3	17.5	26.3

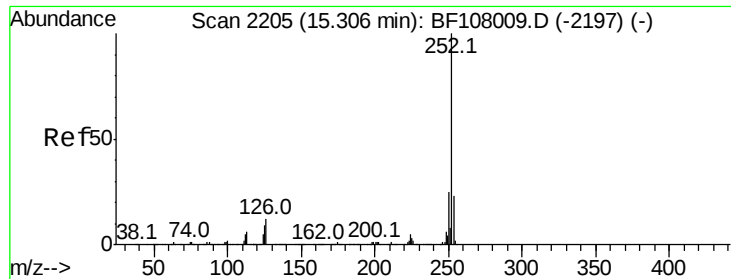
Abundance

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





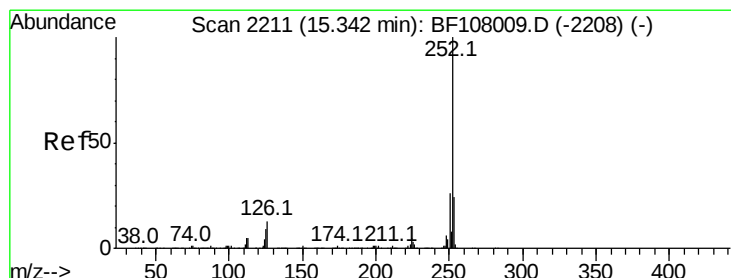
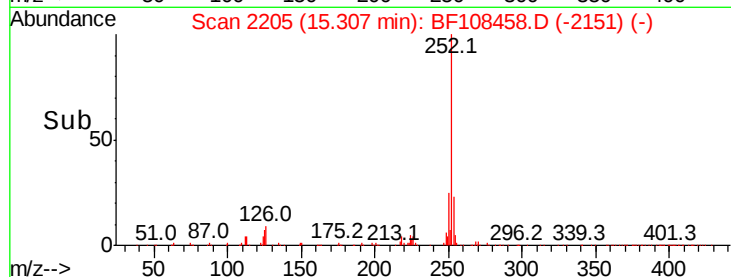
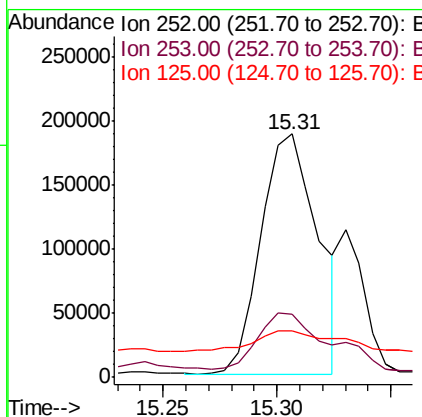
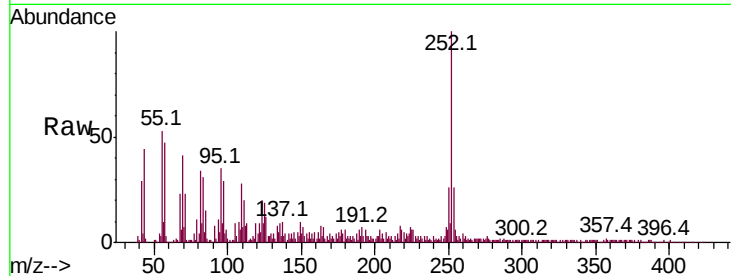
#87
Benzo(b)fluoranthene
Concen: 29.068 ng m
RT: 15.31 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Instrument :
BNA_F
ClientSampleId :
RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.0	25.6#
125	19.0	9.0	13.6#

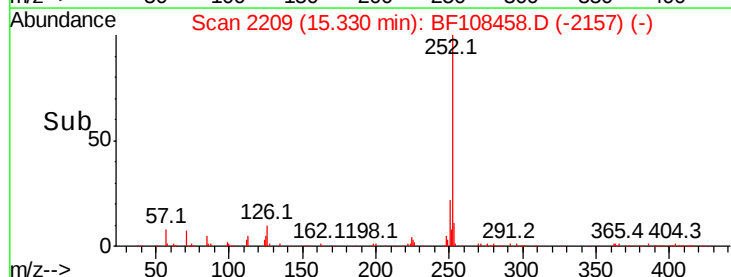
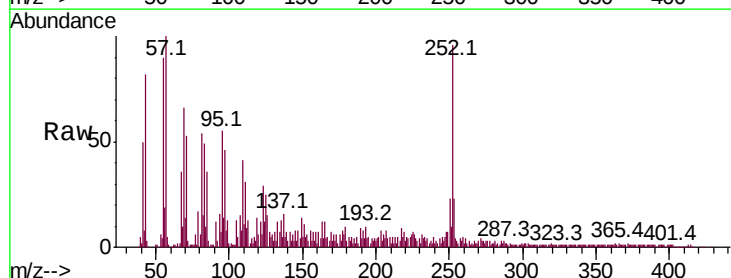
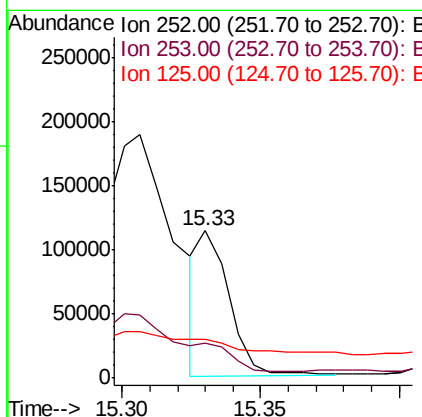
Manual Integrations
APPROVED

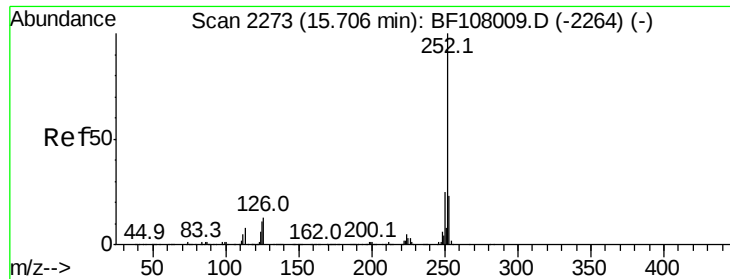
Sohil
8/24/2018 12:14:37 PM



#88
Benzo(k)fluoranthene
Concen: 8.542 ng m
RT: 15.33 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF108458.D
Acq: 24 Aug 2018 9:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	26.3	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 19.279 ng

RT: 15.71 min Scan# 2273

Delta R.T. 0.02 min

Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Instrument :

BNA_F

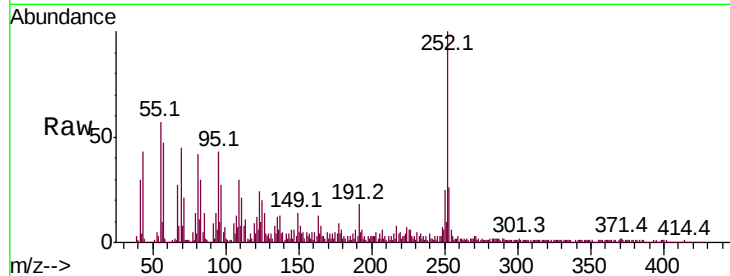
ClientSampleId :

RA-081618-NSW-15-038

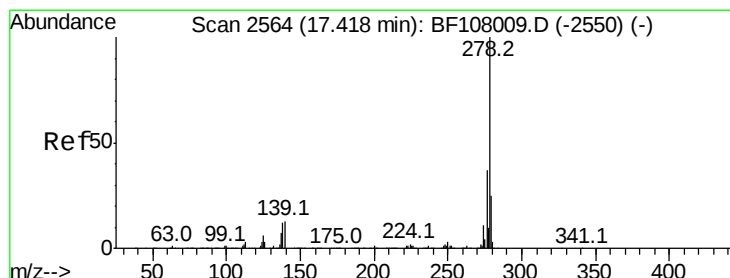
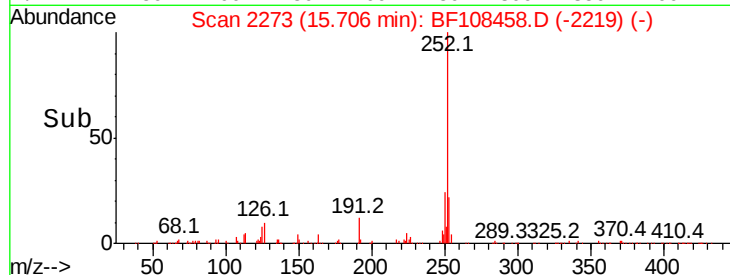
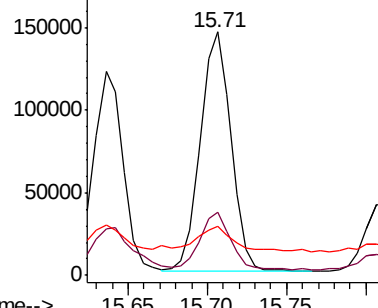
Tot Ion:	252	Resp:	193702
Ion Ratio	Lower	Upper	
252	100		
253	25.7	17.1	25.7#
125	20.3	9.8	14.6#

Manual Integrations
APPROVED

Sohil
8/24/2018 12:14:37 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 4.004 ng

RT: 17.39 min Scan# 2560

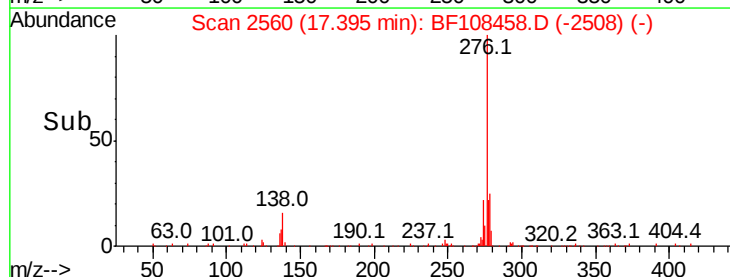
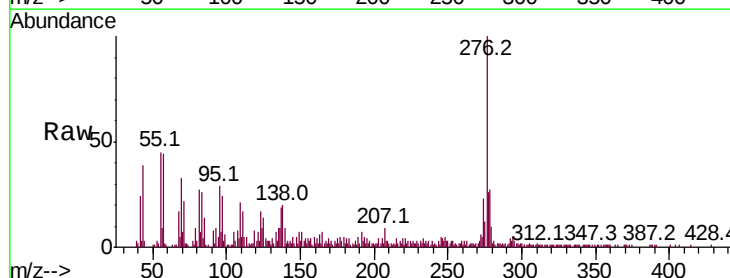
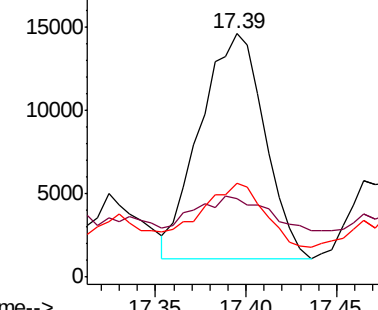
Delta R.T. 0.01 min

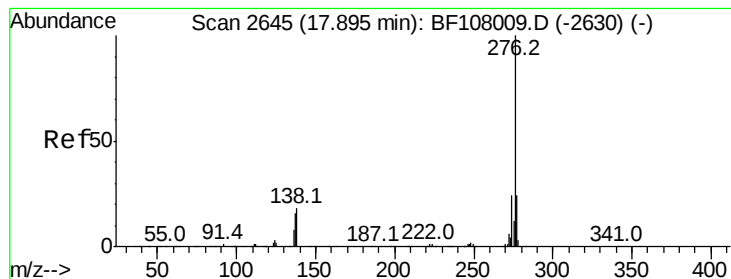
Lab File: BF108458.D

Acq: 24 Aug 2018 9:06

Tgt Ion:	278	Resp:	33284
Ion Ratio	Lower	Upper	
278	100		
139	32.0	15.9	23.9#
279	38.8	19.0	28.4#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 14.895 ng
 RT: 17.88 min Scan# 2643
 Delta R.T. 0.02 min
 Lab File: BF108458.D
 Acq: 24 Aug 2018 9:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081618-NSW-15-038

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.2	17.9	26.9
138	20.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 8/24/2018 12:14:37 PM

