

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
 Data File : BF108398.D
 Acq On : 22 Aug 2018 22:06
 Operator : JU/SJ
 Sample : J4573-07 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 23 02:17:42 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	154704	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	599323	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	277311	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	447116	20.00	ng	0.00
75) Chrysene-d12	14.19	240	308649	20.00	ng	0.00
86) Perylene-d12	15.75	264	275807	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.62	112	155566	18.21	ng	-0.01
7) Phenol-d6	6.61	99	218425	19.24	ng	-0.02
23) Nitrobenzene-d5	7.56	82	136039	12.67	ng	-0.01
41) 2,4,6-Tribromophenol	10.84	330	36178	13.08	ng	-0.01
44) 2-Fluorobiphenyl	9.35	172	242400	14.03	ng	-0.01
78) Terphenyl-d14	13.12	244	166478	13.71	ng	0.00

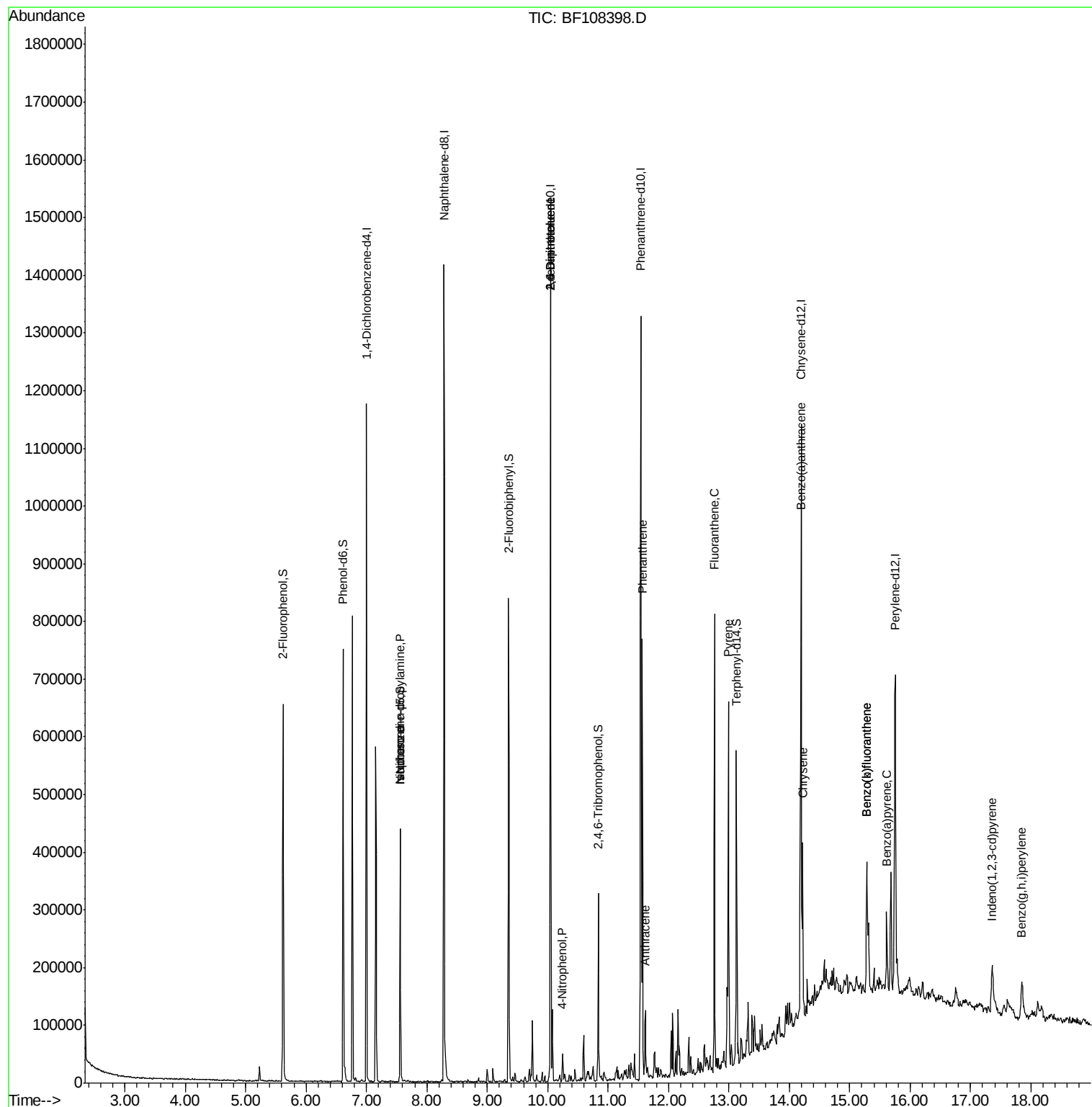
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.56	70	17540	2.284	ng	# 84
25) Isophorone	7.56	82	136038	6.645	ng	# 64
50) 2,6-Dinitrotoluene	10.05	165	36427	9.013	ng	# 26
55) 4-Nitrophenol	10.25	139	7066	2.110	ng	# 9
56) 2,4-Dinitrotoluene	10.05	165	36427	7.002	ng	# 24
70) Phenanthrene	11.57	178	247402	11.731	ng	98
71) Anthracene	11.62	178	45365	2.099	ng	100
74) Fluoranthene	12.76	202	290606	12.626	ng	95
77) Pyrene	12.99	202	259237	13.267	ng	98
80) Benzo(a)anthracene	14.18	228	124686	7.039	ng	98
82) Chrysene	14.22	228	108347	6.672	ng	96
85) Indeno(1,2,3-cd)pyrene	17.36	276	50939	3.620	ng	# 90
87) Benzo(b)fluoranthene	15.28	252	184139	11.173	ng	99
88) Benzo(k)fluoranthene	15.28	252	184139	12.155	ng	# 96
89) Benzo(a)pyrene	15.61	252	67398	4.567	ng	96
91) Benzo(g,h,i)perylene	17.85	276	49890	4.149	ng	97

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

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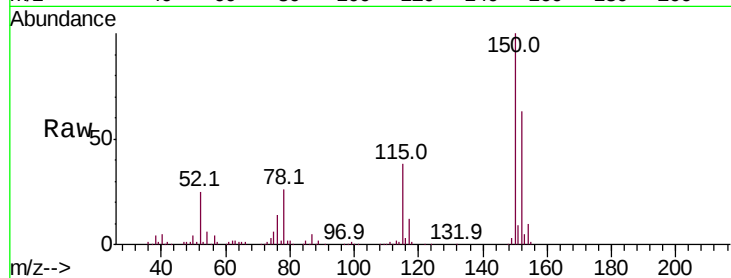


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.6	186.8
115	59.7	50.1	75.1

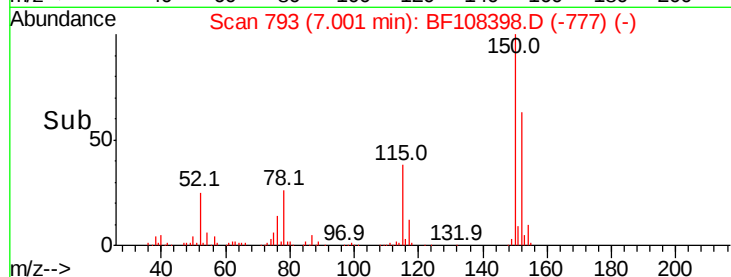
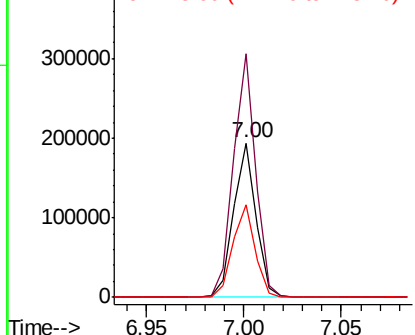


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

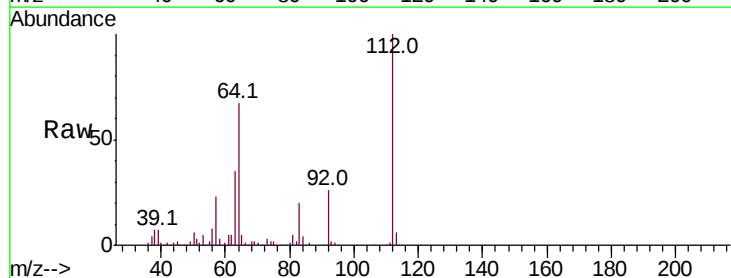
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 18.205 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	47.9	71.9
63	35.2	23.7	35.5

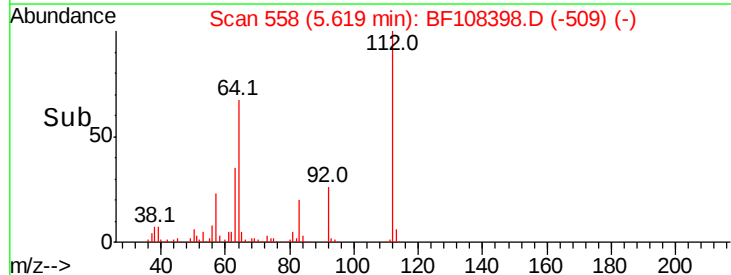
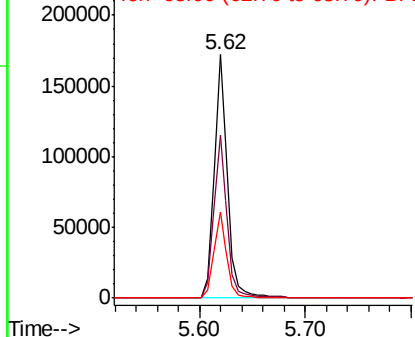


Abundance

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: 19.236 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

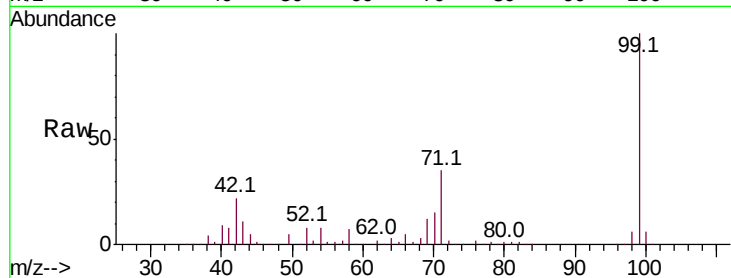
Tot Ion: 99 Resp: 218425

Ion Ratio Lower Upper

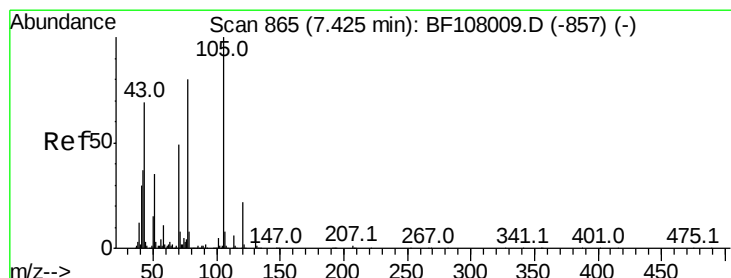
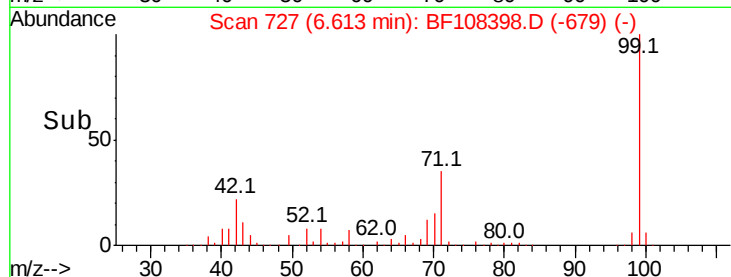
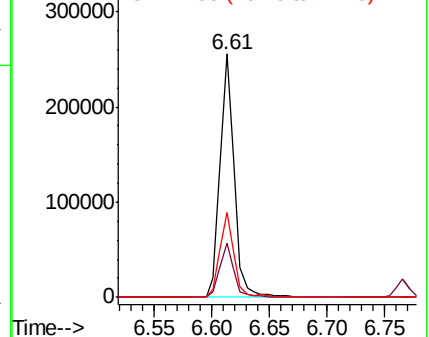
99 100

42 22.1 14.5 21.7#

71 35.0 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.284 ng

RT: 7.56 min Scan# 888

Delta R.T. 0.15 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Tgt Ion: 70 Resp: 17540

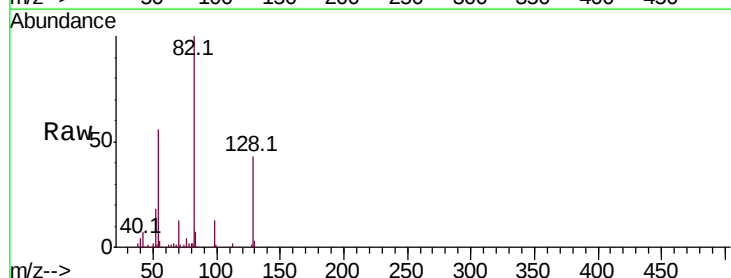
Ion Ratio Lower Upper

70 100

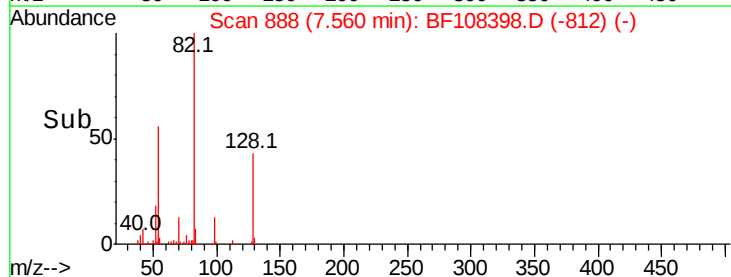
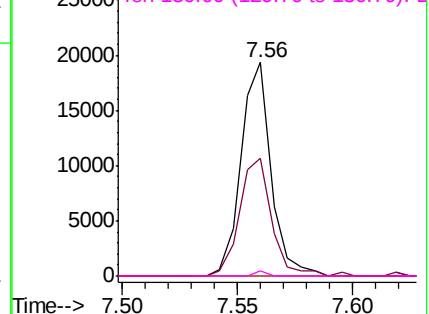
42 54.9 47.5 71.3

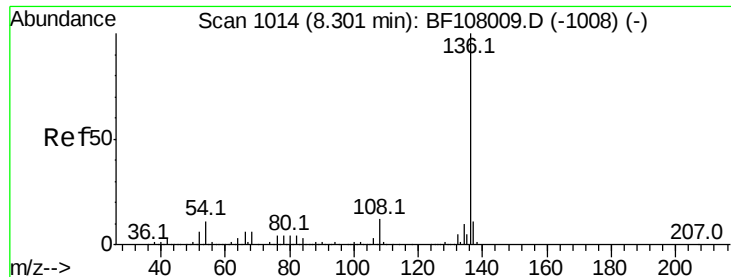
101 0.0 7.4 11.2#

130 2.2 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1

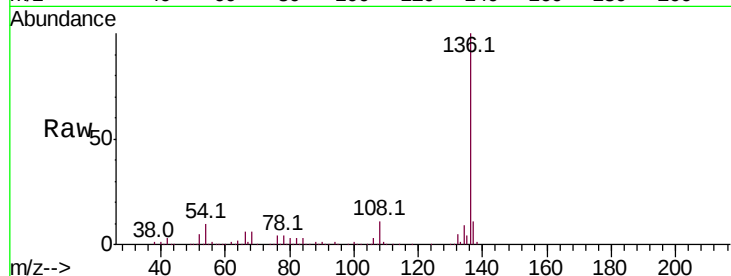




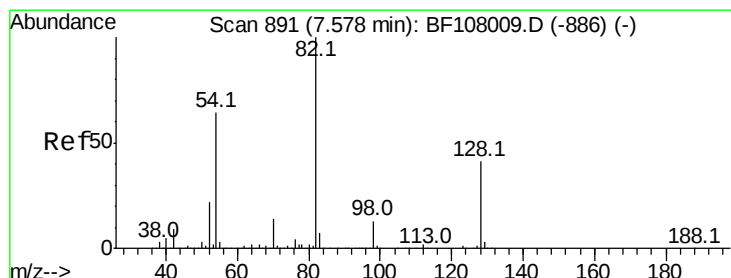
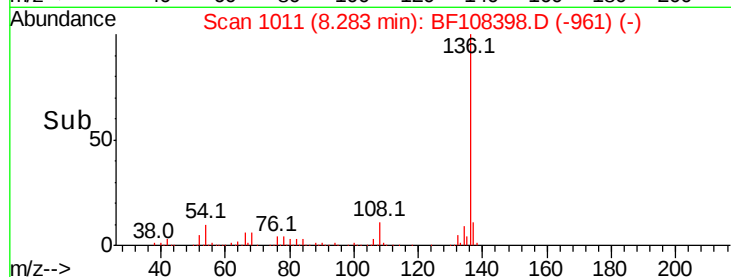
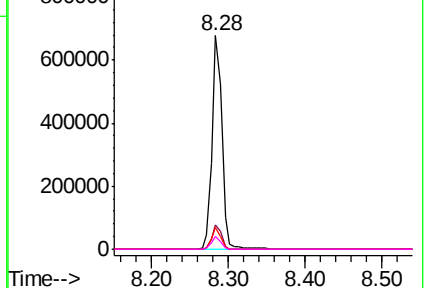
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.28 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	599323
Ion Ratio	Lower	Upper
136	100	
137	11.3	8.9 13.3
54	10.0	6.6 9.8#
68	5.8	5.0 7.4

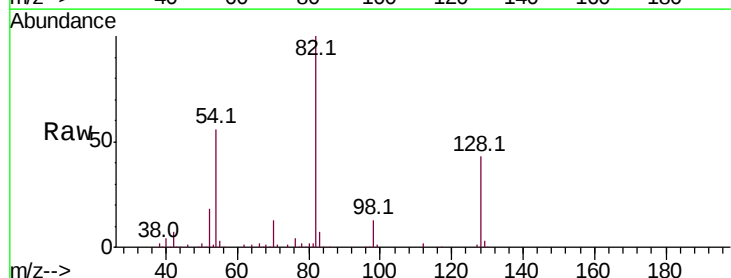


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

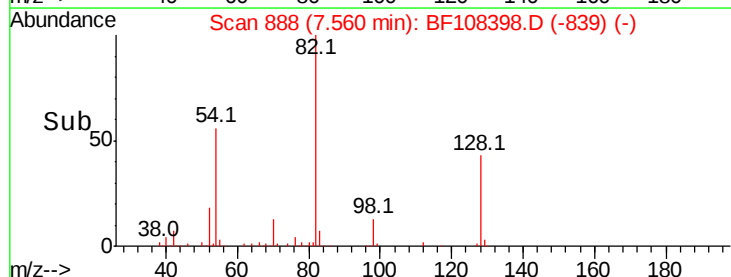
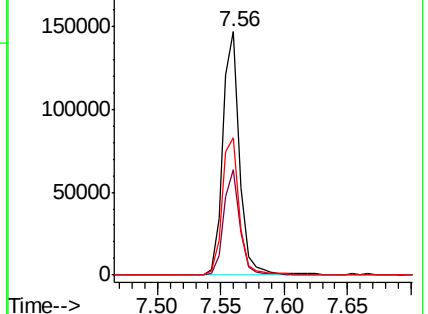


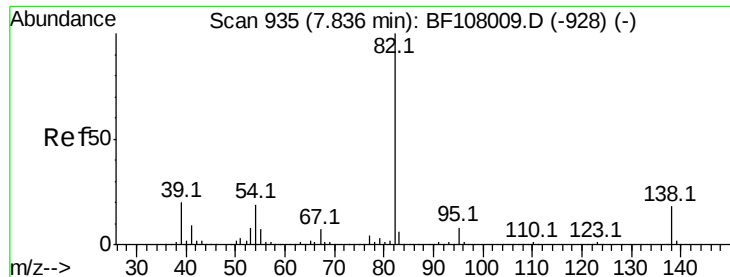
#23
Nitrobenzene-d5
Concen: 12.666 ng
RT: 7.56 min Scan# 888
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Tgt Ion: 82	Resp:	136039
Ion Ratio	Lower	Upper
82	100	
128	43.3	36.1 54.1
54	56.2	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.645 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.26 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampled :

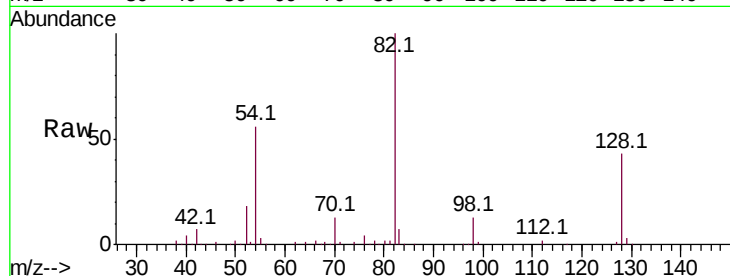
Tot Ion: 82 Resp: 136038

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

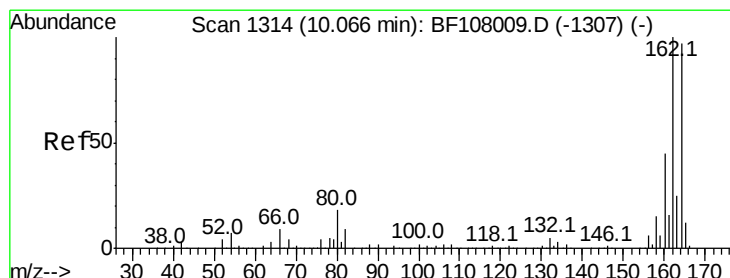
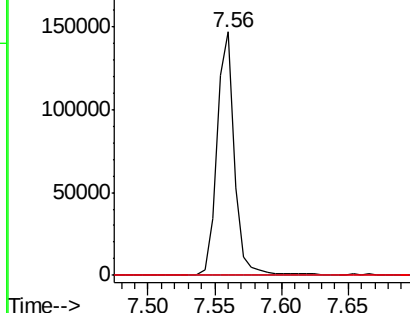
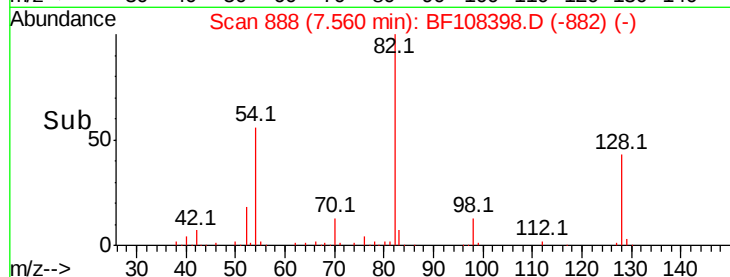
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

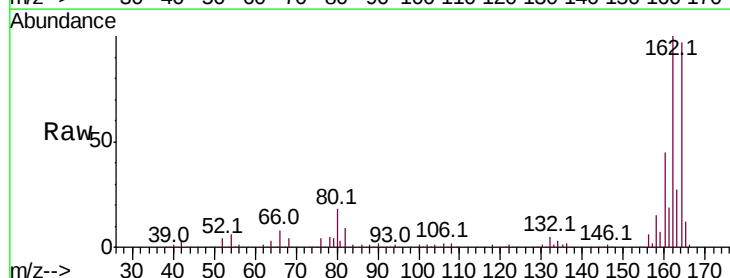
Tgt Ion:164 Resp: 277311

Ion Ratio Lower Upper

164 100

162 103.5 86.1 129.1

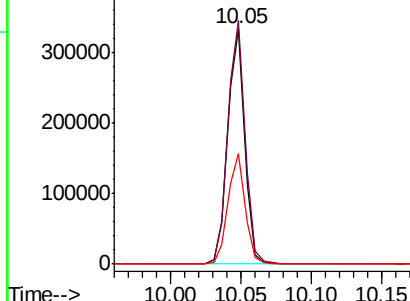
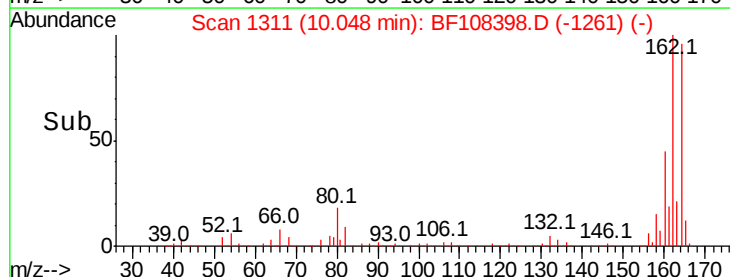
160 46.7 38.3 57.5

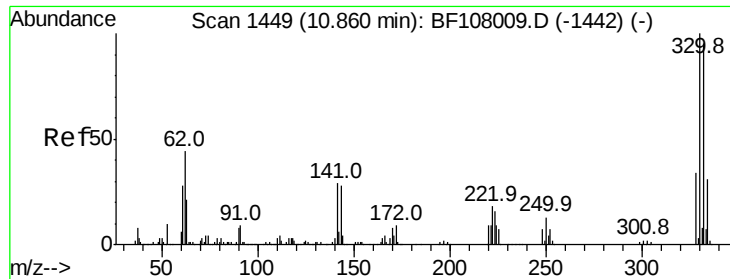


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

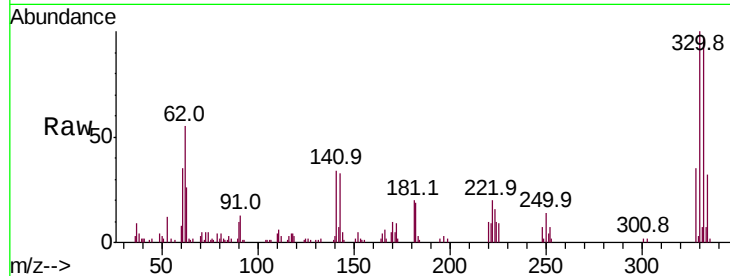




#41
 2,4,6-Tribromophenol
 Concen: 13.079 ng
 RT: 10.84 min Scan# 1445
 Delta R.T. -0.01 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.3	77.0	115.6
141	33.1	29.9	44.9

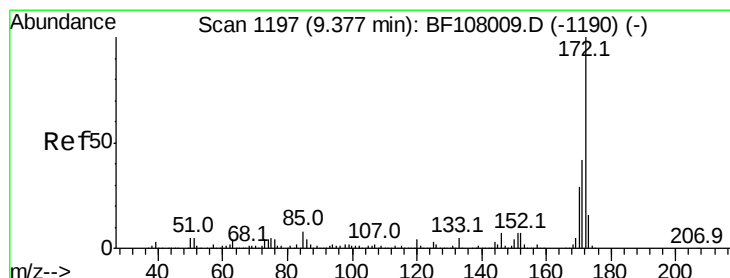
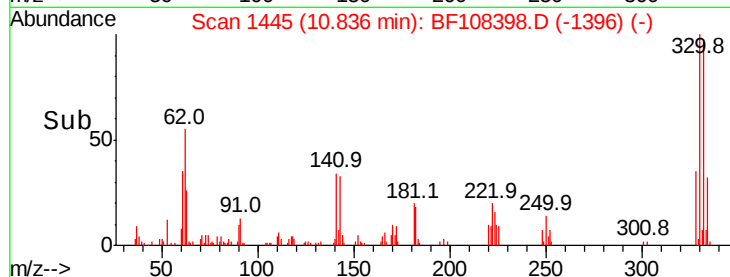
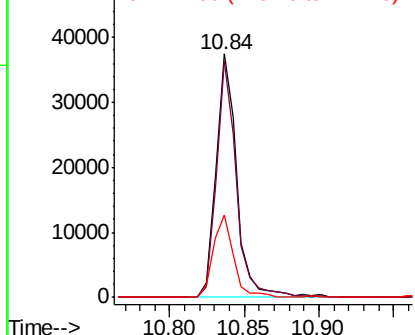


Abundance

Ion 329.80 (329.50 to 330.50): E

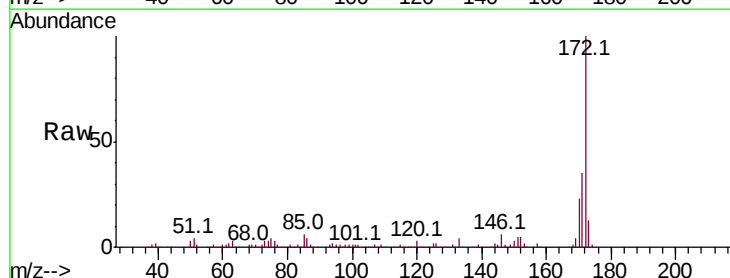
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 14.034 ng
 RT: 9.35 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	23.0	19.6	29.4

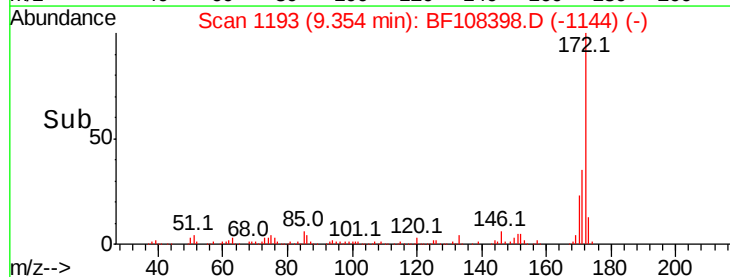
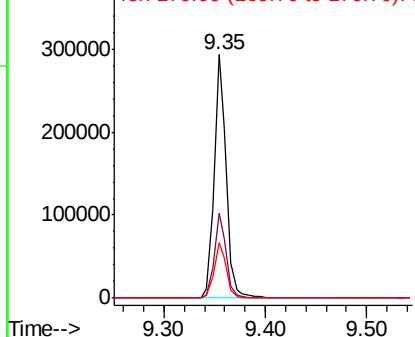


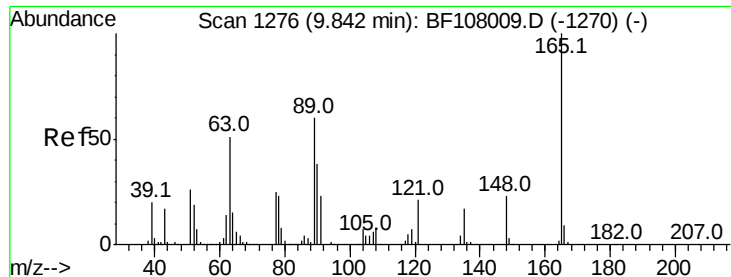
Abundance

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

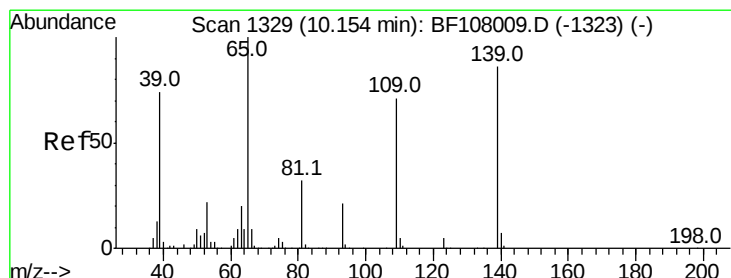
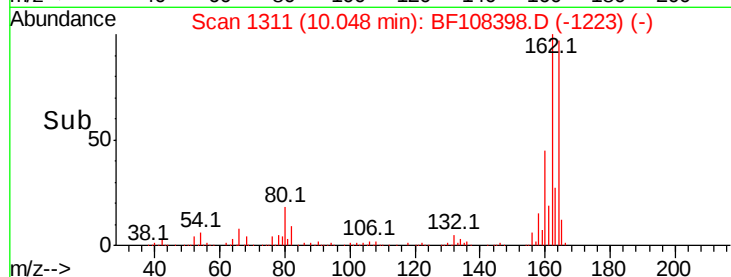
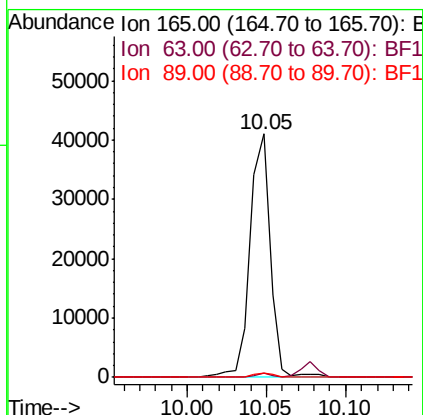
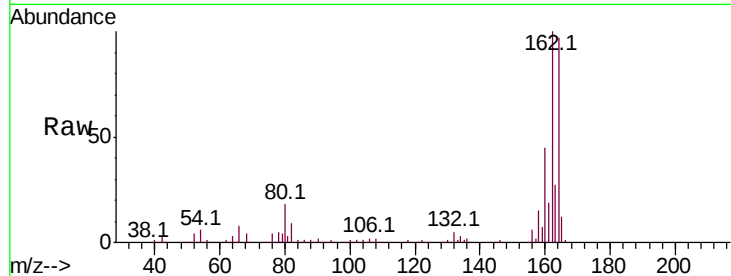




#50
 2,6-Dinitrotoluene
 Concen: 9.013 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. 0.22 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

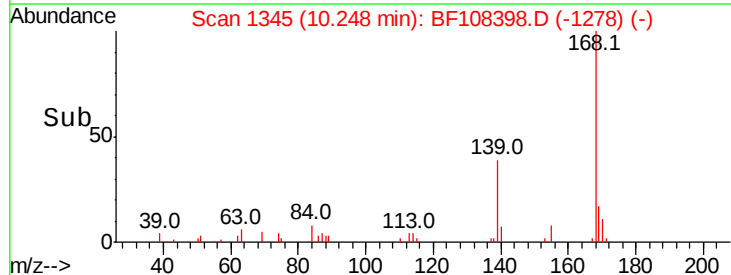
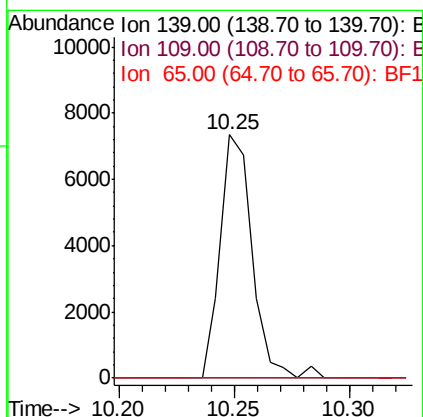
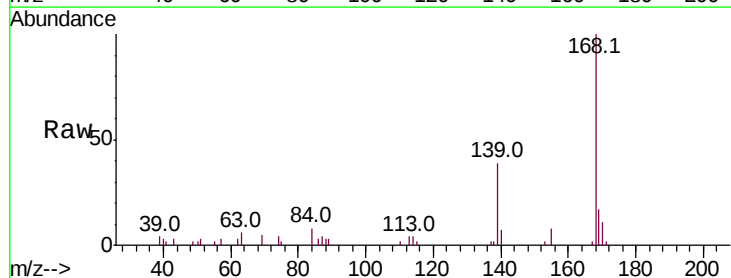
Instrument :
 BNA_F
 ClientSampleId :

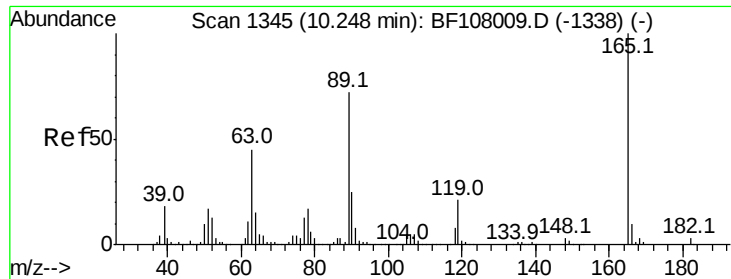
Tot Ion	Ratio	Lower	Upper
165	100		
63	2.0	44.7	67.1#
89	1.8	44.0	66.0#



#55
 4-Nitrophenol
 Concen: 2.110 ng
 RT: 10.25 min Scan# 1345
 Delta R.T. 0.09 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	0.0	72.6	112.6#

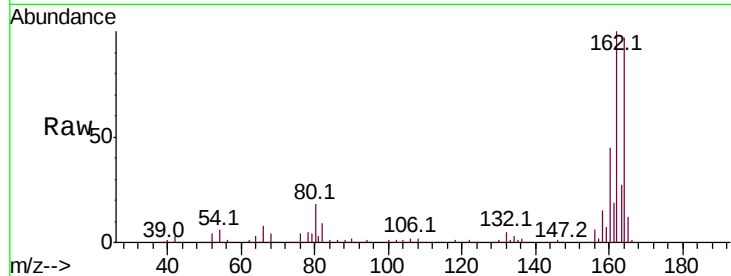




#56
 2,4-Dinitrotoluene
 Concen: 7.002 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.19 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	2.0	36.4	54.6#
89	1.8	57.8	86.6#
182	0.0	1.6	2.4#



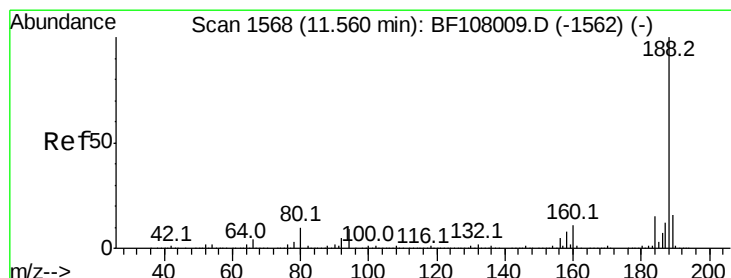
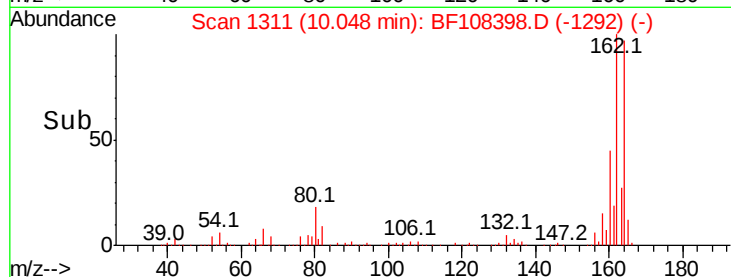
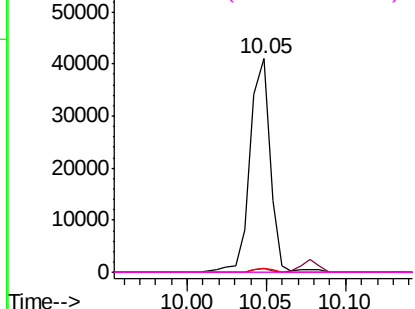
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

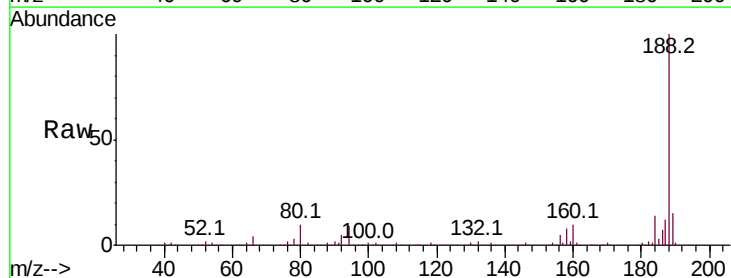
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: BF108398.D
 Acq: 22 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.5	12.7
80	9.6	9.2	13.8

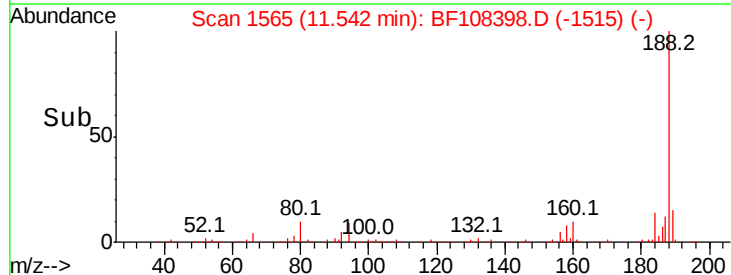
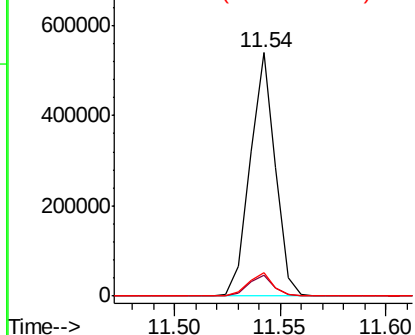


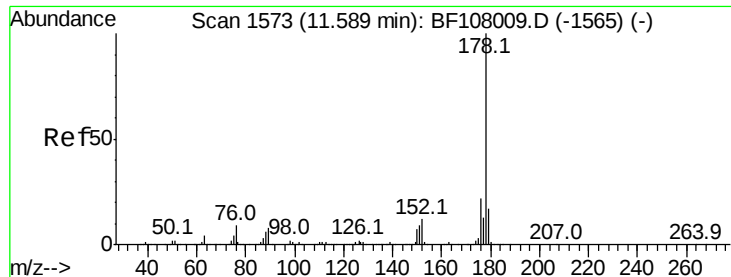
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 11.731 ng

RT: 11.57 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

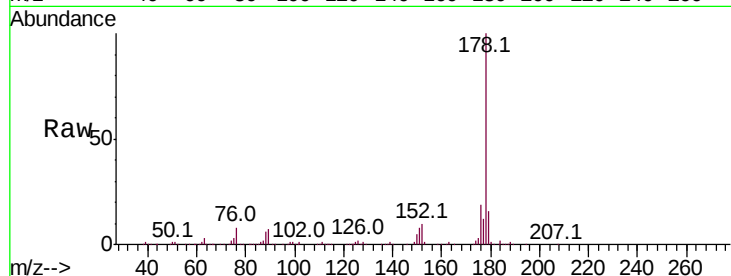
Tot Ion:178 Resp: 247402

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.8

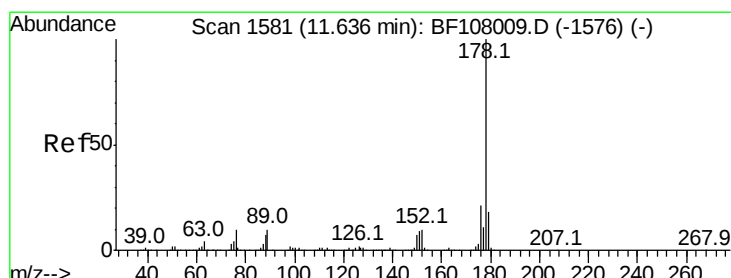
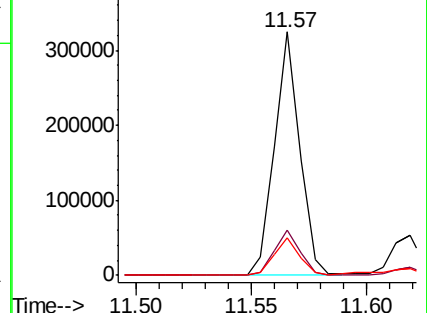
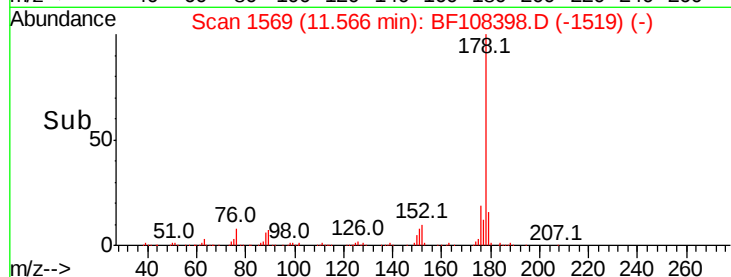
179 15.5 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.099 ng

RT: 11.62 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

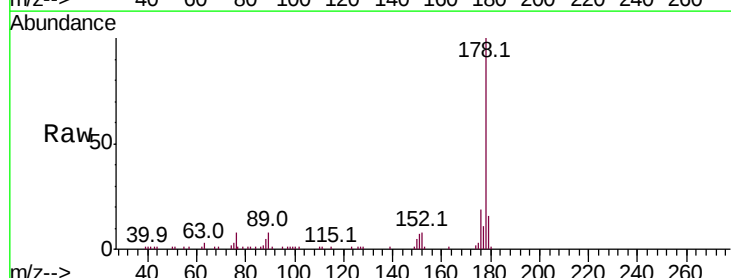
Tgt Ion:178 Resp: 45365

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

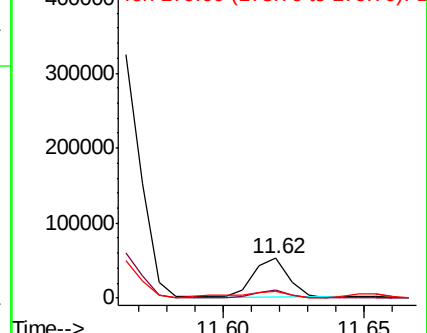
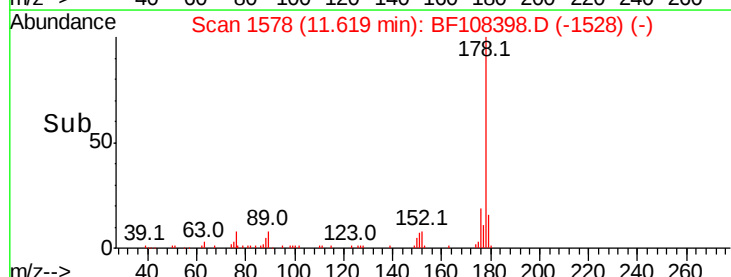
179 15.8 12.6 19.0

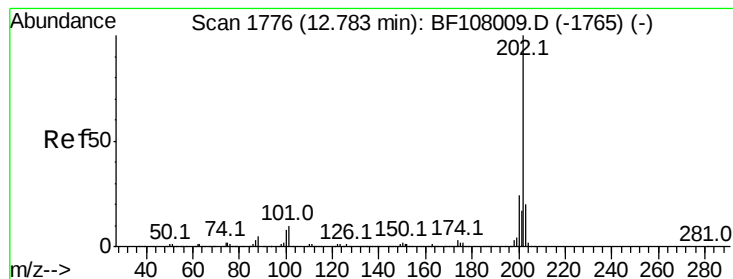


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 12.626 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

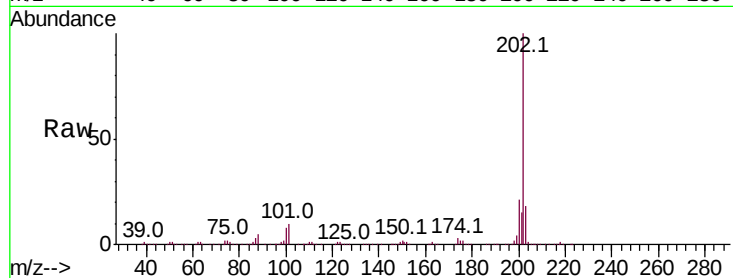
Tot Ion:202 Resp: 290606

Ion Ratio Lower Upper

202 100

101 10.1 0.0 34.1

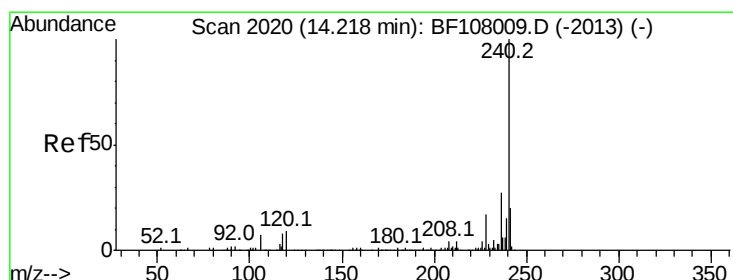
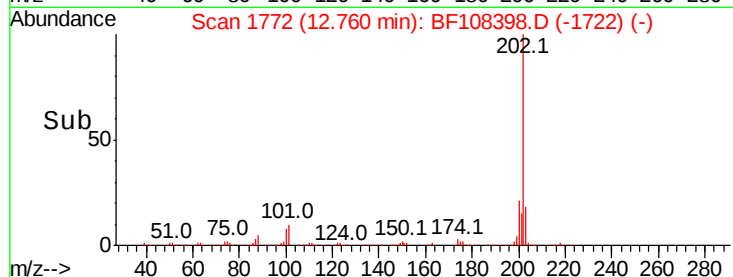
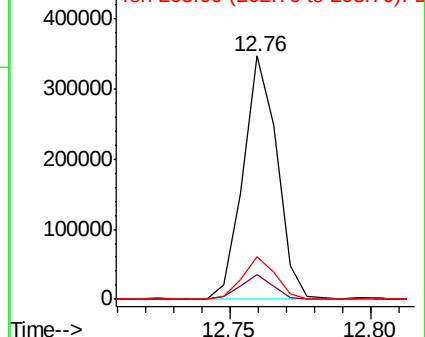
203 17.6 0.0 38.1



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: BF108398.D

Acq: 22 Aug 2018 22:06

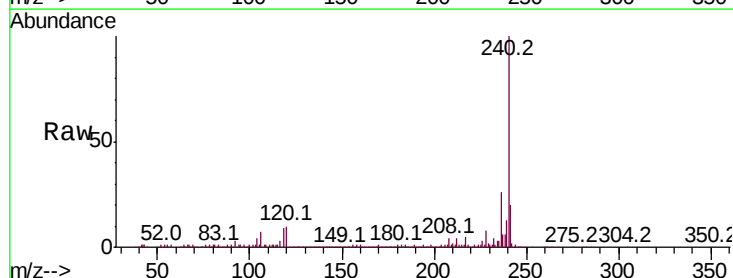
Tgt Ion:240 Resp: 308649

Ion Ratio Lower Upper

240 100

120 9.5 9.5 14.3

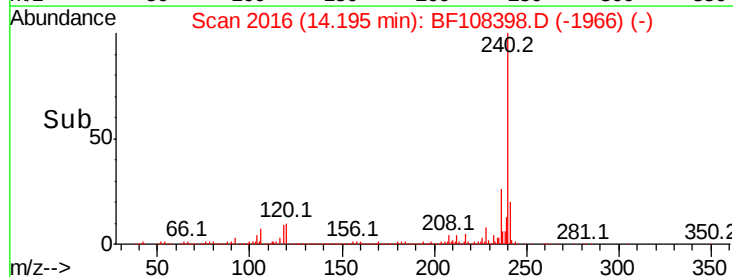
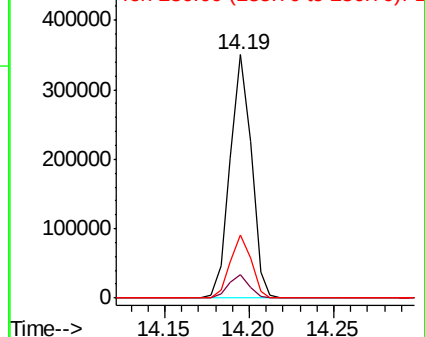
236 26.2 20.7 31.1

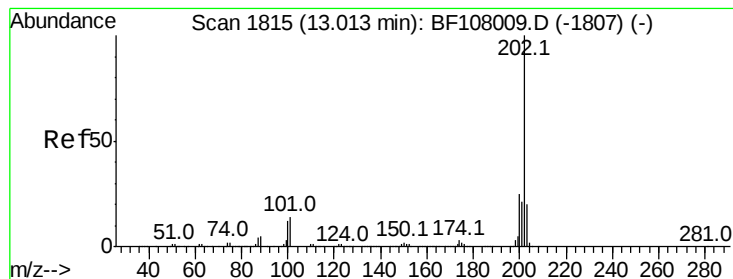


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.267 ng

RT: 12.99 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF108398.D

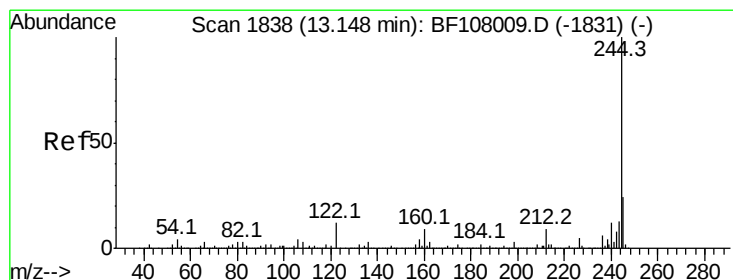
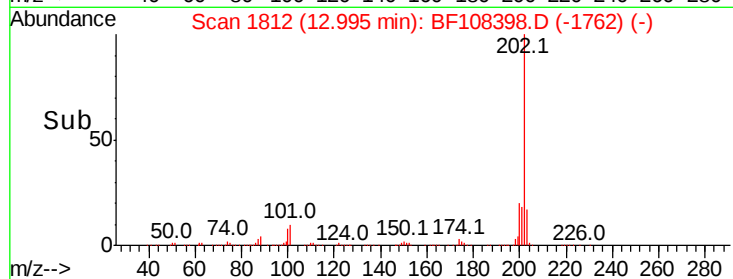
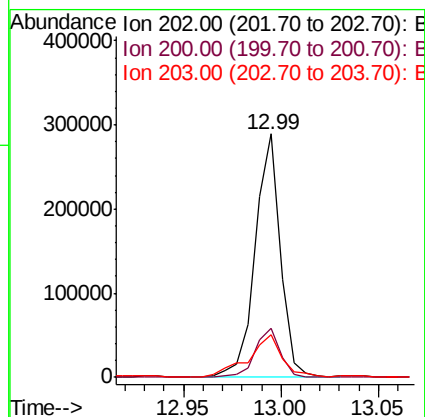
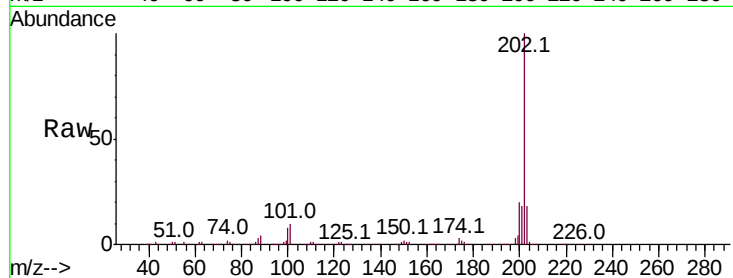
Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	259237
Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.4	26.2
203	17.7	14.3	21.5



#78

Terphenyl-d14

Concen: 13.714 ng

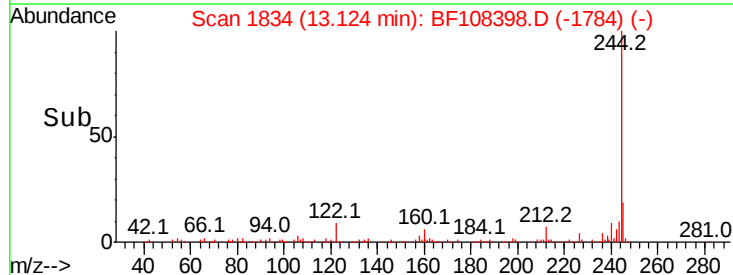
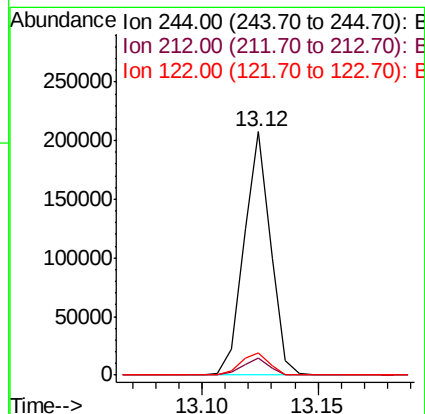
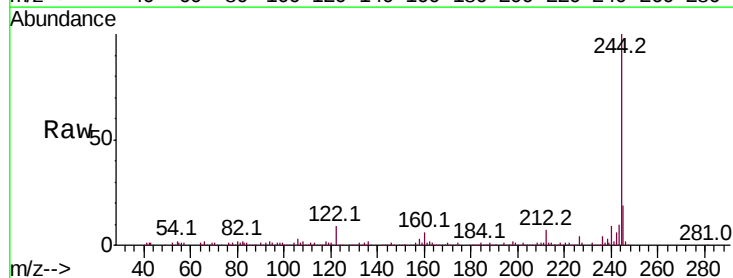
RT: 13.12 min Scan# 1834

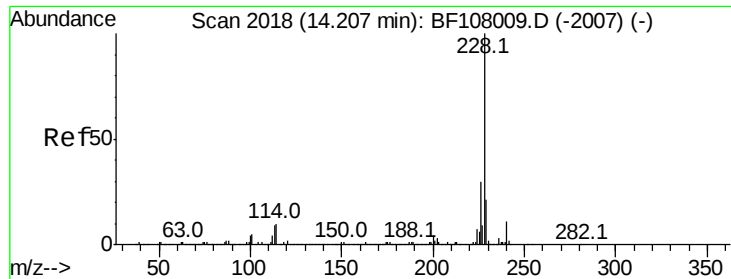
Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Tgt Ion:	244	Resp:	166478
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	8.9	11.0	16.4#

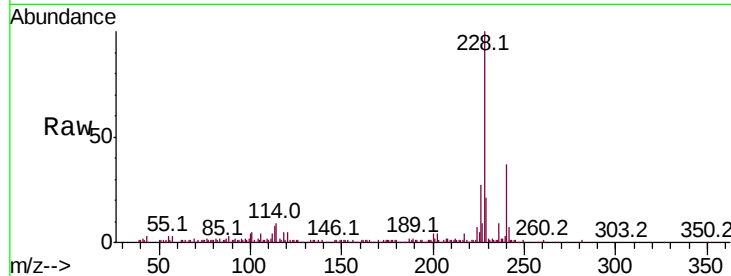




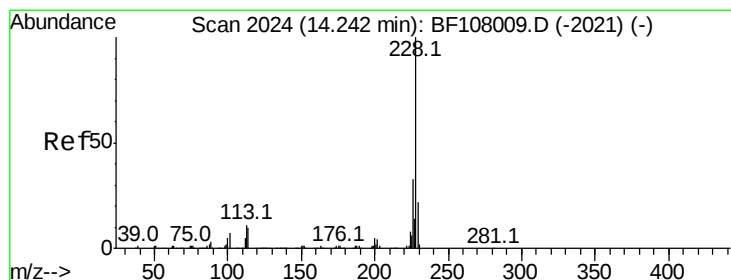
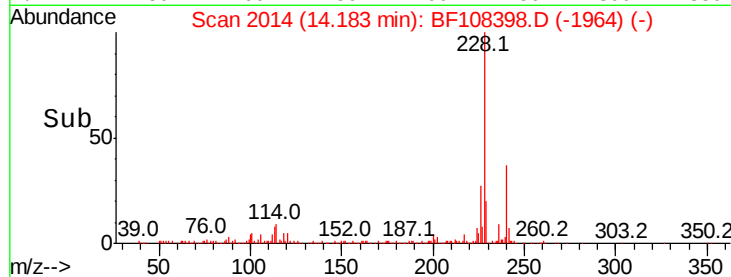
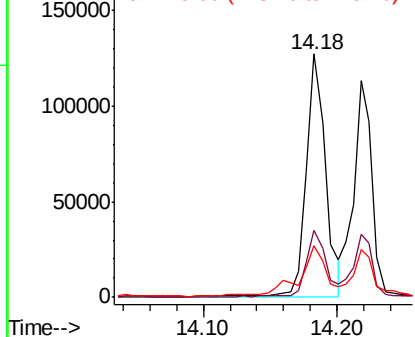
#80
Benzo(a)anthracene
Concen: 7.039 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.6	33.8
229	21.0	15.8	23.6

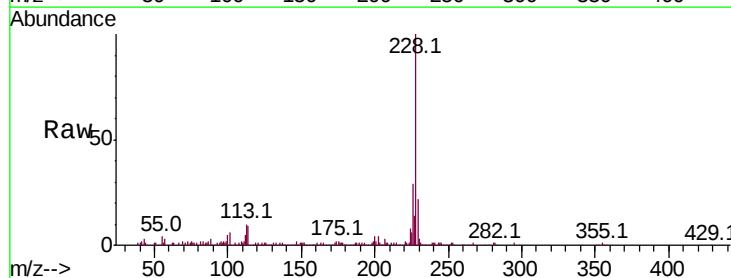


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

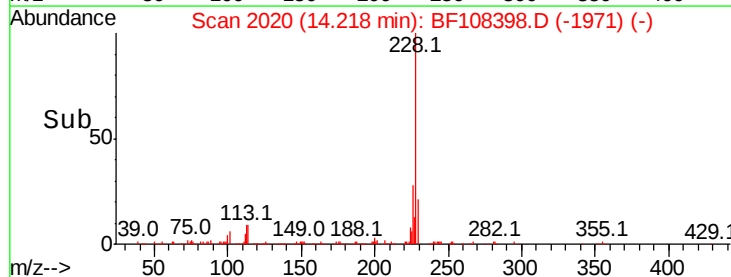
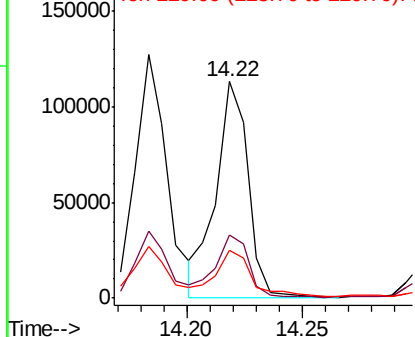


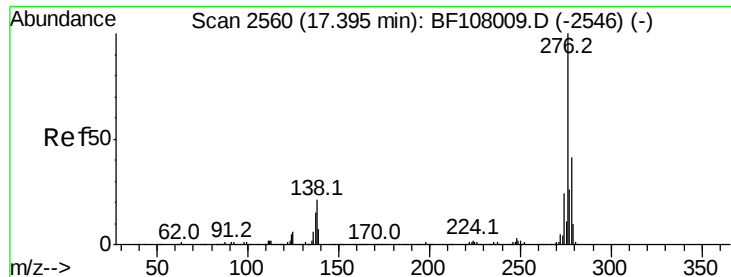
#82
Chrysene
Concen: 6.672 ng
RT: 14.22 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF108398.D
Acq: 22 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	25.0	37.6
229	21.9	16.2	24.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.620 ng

RT: 17.36 min Scan# 2554

Delta R.T. -0.01 min

Lab File: BF108398.D

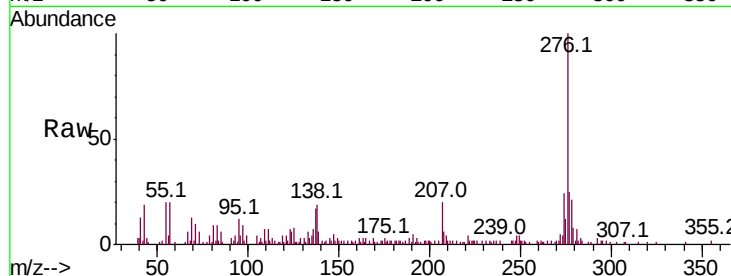
Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

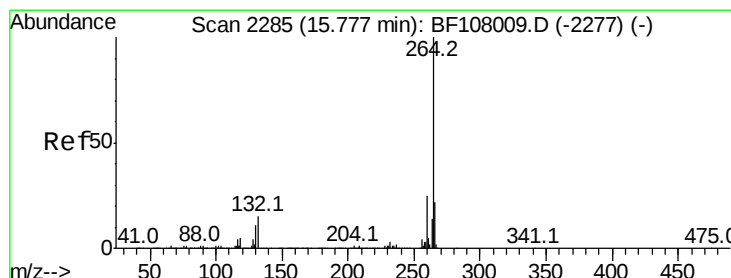
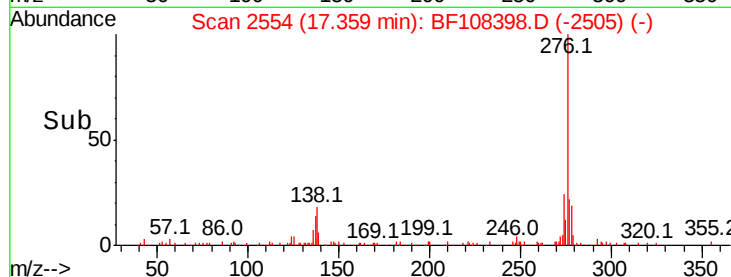
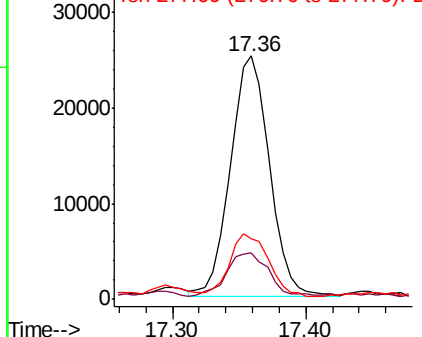
Tot Ion:	276	Resp:	50939
Ion	Ratio	Lower	Upper
276	100		
138	21.7	25.0	37.6#
277	25.4	20.1	30.1



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

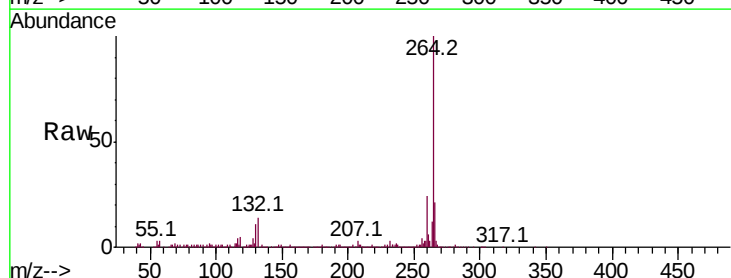
RT: 15.75 min Scan# 2281

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

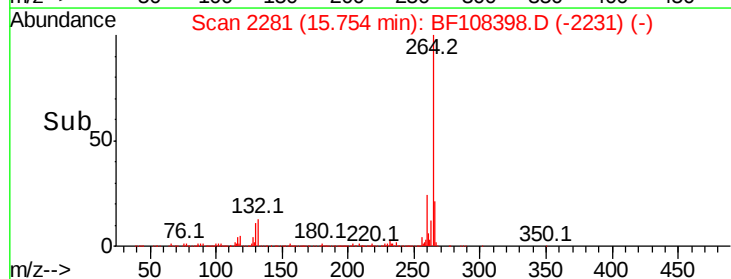
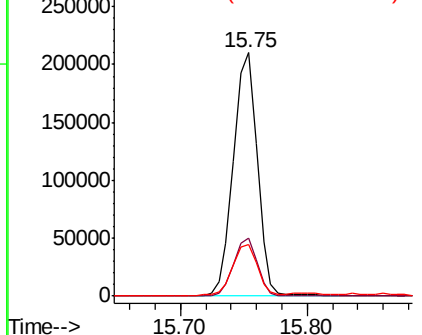
Tgt Ion:	264	Resp:	275807
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.5	26.3

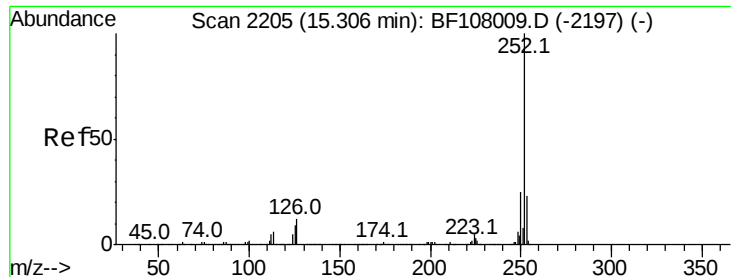


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.173 ng

RT: 15.28 min Scan# 2201

Delta R.T. -0.01 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampleId :

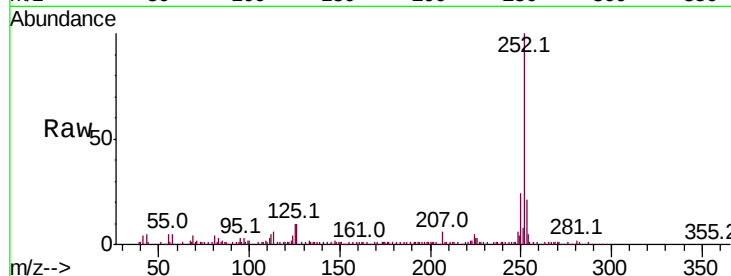
Tot Ion:252 Resp: 184139

Ion Ratio Lower Upper

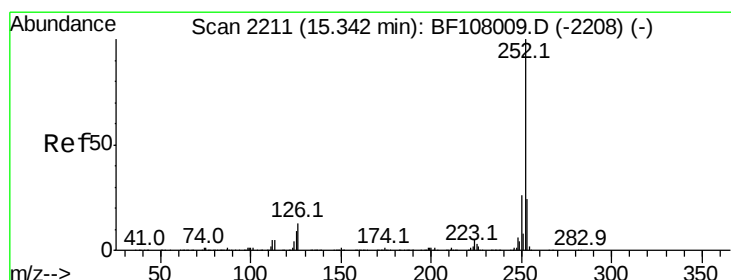
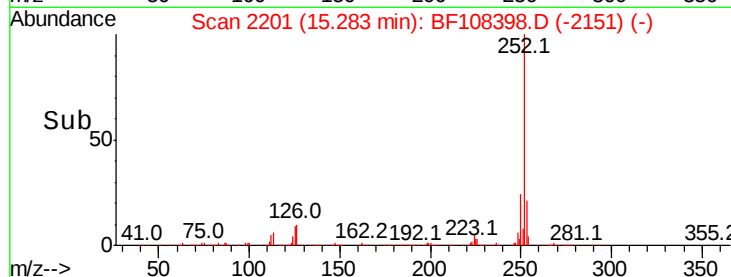
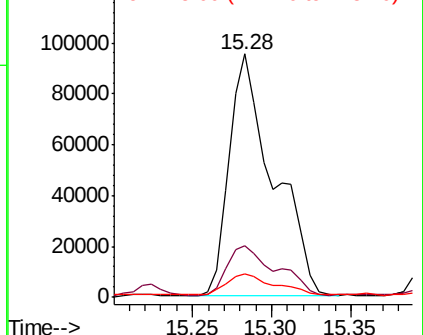
252 100

253 21.3 17.0 25.6

125 9.8 9.0 13.6



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



#88

Benzo(k)fluoranthene

Concen: 12.155 ng

RT: 15.28 min Scan# 2201

Delta R.T. -0.04 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

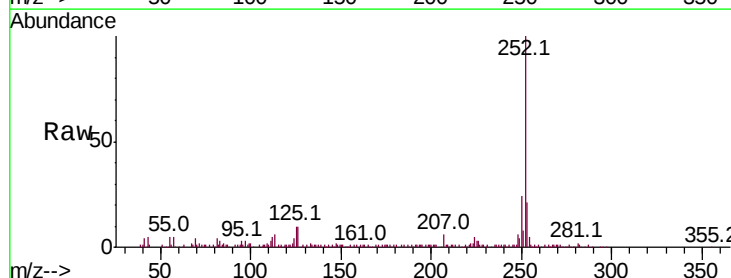
Tgt Ion:252 Resp: 184139

Ion Ratio Lower Upper

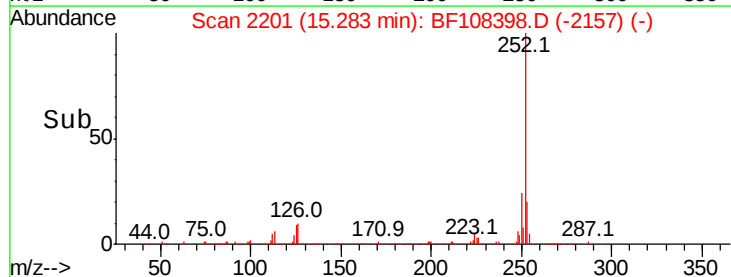
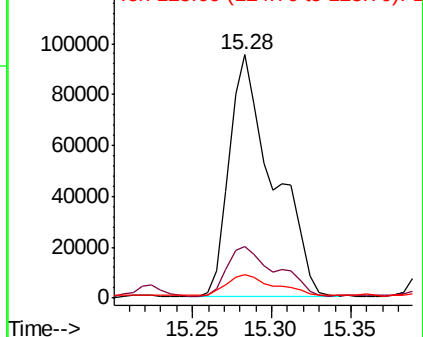
252 100

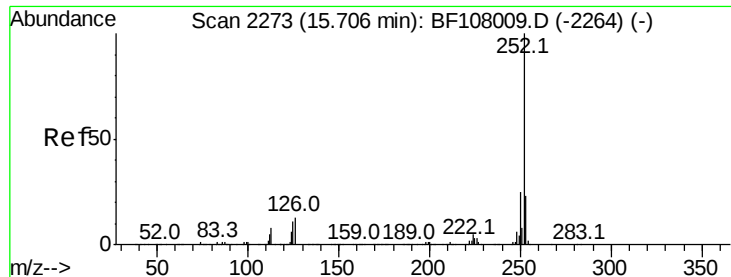
253 21.3 17.9 26.9

125 9.8 10.2 15.2#



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





#89

Benzo(a)pyrene

Concen: 4.567 ng

RT: 15.61 min Scan# 2257

Delta R.T. -0.08 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

Instrument :

BNA_F

ClientSampled :

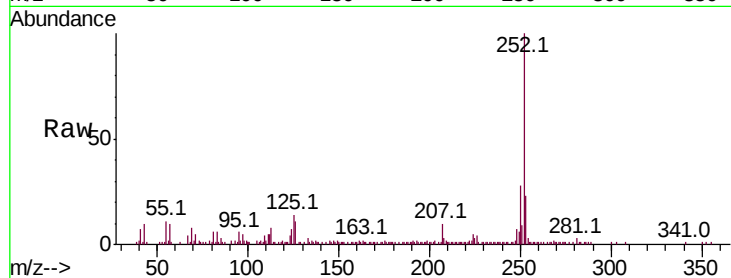
Tot Ion:252 Resp: 67398

Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

125 13.8 9.8 14.6

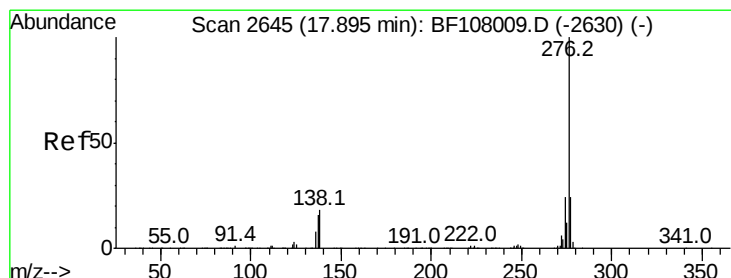
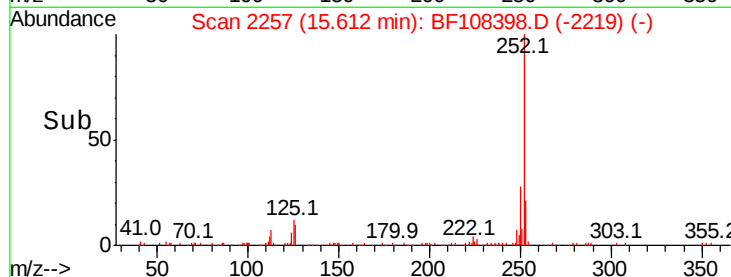
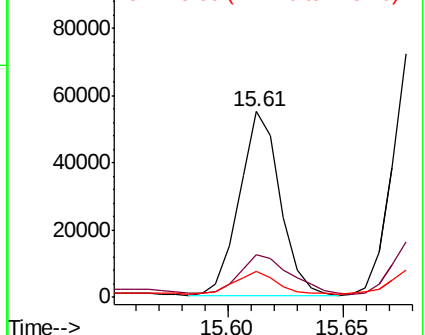


Abundance

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



#91

Benzo(g,h,i)perylene

Concen: 4.149 ng

RT: 17.85 min Scan# 2637

Delta R.T. -0.02 min

Lab File: BF108398.D

Acq: 22 Aug 2018 22:06

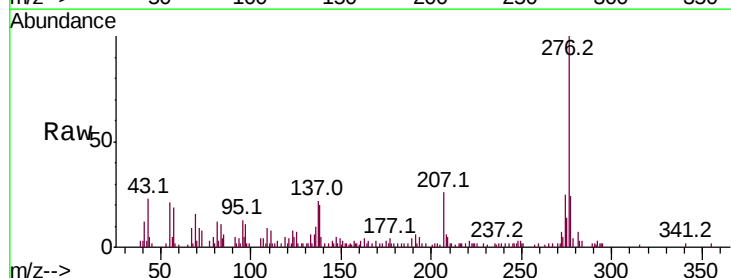
Tgt Ion:276 Resp: 49890

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 25.5 21.8 32.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

