

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082018\
 Data File : BF108298.D
 Acq On : 20 Aug 2018 18:57
 Operator : JU/SJ
 Sample : J4521-25
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11988

Quant Time: Aug 21 00:53:15 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 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	166231	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	580109	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	245615	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	404591	20.00	ng	0.00
75) Chrysene-d12	14.22	240	296176	20.00	ng	0.00
86) Perylene-d12	15.79	264	228817	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.65	112	862264	93.91	ng	0.02
7) Phenol-d6	6.64	99	1123669	92.09	ng	0.00
23) Nitrobenzene-d5	7.58	82	725112	69.75	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	219417	89.56	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	1181417	77.22	ng	0.00
78) Terphenyl-d14	13.15	244	957954	82.24	ng	0.00

Target Compounds

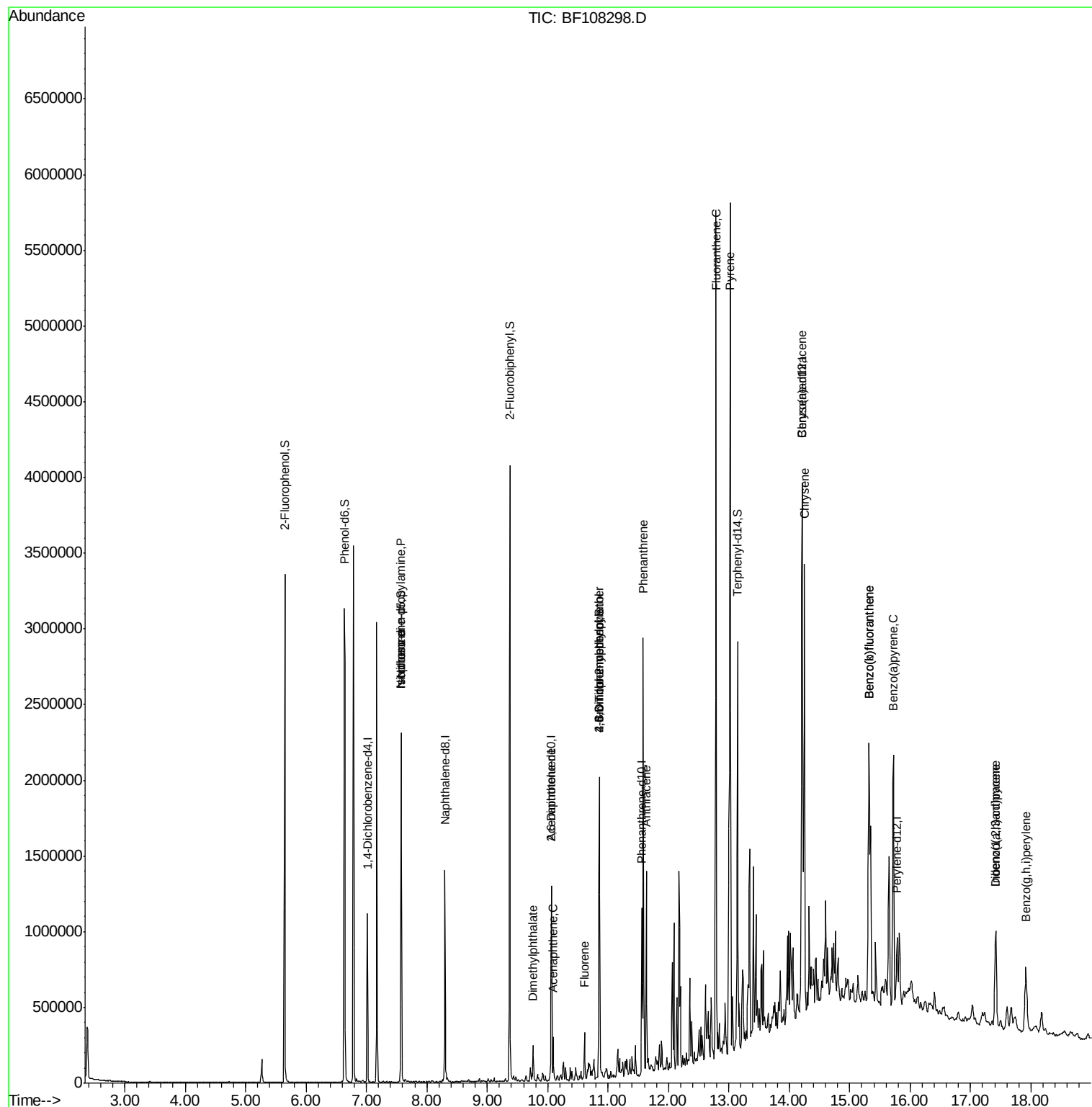
						Qvalue
19) n-Nitroso-di-n-propylamine	7.58	70	98460	11.933	ng	# 82
25) Isophorone	7.58	82	725095	36.593	ng	# 64
49) Dimethylphthalate	9.76	163	78330	4.578	ng	# 97
50) 2,6-Dinitrotoluene	10.06	165	33468	9.350	ng	# 26
51) Acenaphthene	10.10	154	54683	3.946	ng	95
57) Fluorene	10.61	166	82203	5.172	ng	98
64) 4,6-Dinitro-2-methylphenol	10.85	198	522	5.664	ng	# 1
66) 4-Bromophenyl-phenylether	10.85	248	14956	3.402	ng	# 1
70) Phenanthrene	11.59	178	1152256	60.381	ng	99
71) Anthracene	11.64	178	470034	24.032	ng	99
74) Fluoranthene	12.79	202	2685797	128.958	ng	96
77) Pyrene	13.02	202	2527019	134.767	ng	95
80) Benzo(a)anthracene	14.21	228	1384123	81.431	ng	97
82) Chrysene	14.25	228	1156263	74.200	ng	97
85) Indeno(1,2,3-cd)pyrene	17.42	276	456294	33.794	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	1605359	117.413	ng	96
88) Benzo(k)fluoranthene	15.32	252	1605359	127.728	ng	# 96
89) Benzo(a)pyrene	15.72	252	858404	70.111	ng	94
90) Dibenzo(a,h)anthracene	17.42	278	124826	12.322	ng	93
91) Benzo(g,h,i)perylene	17.92	276	405192	40.620	ng	# 90

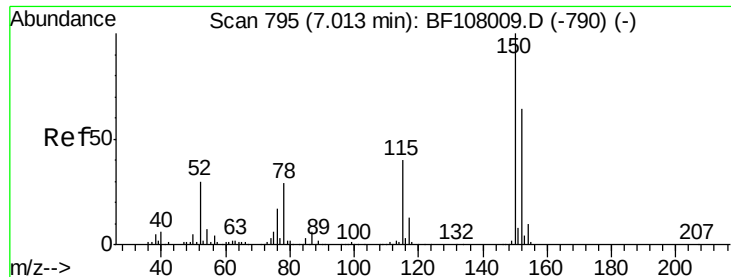
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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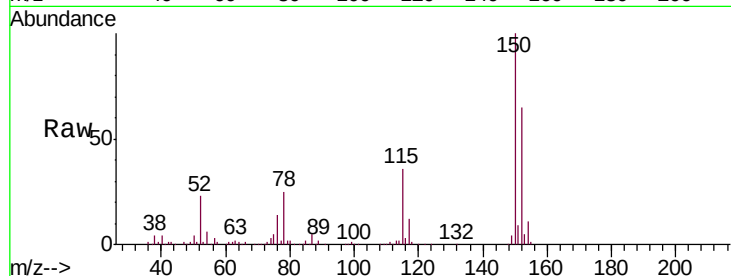


#1

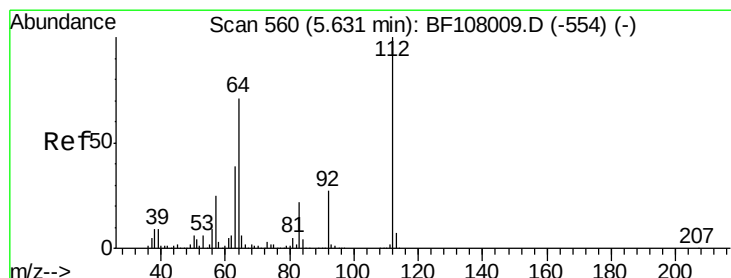
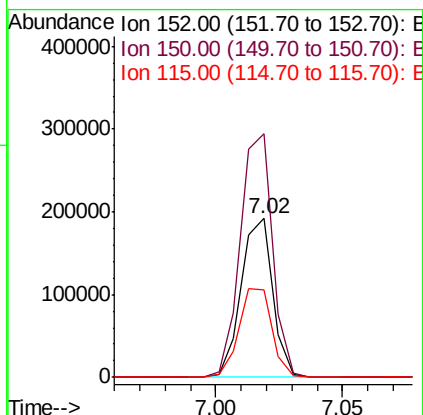
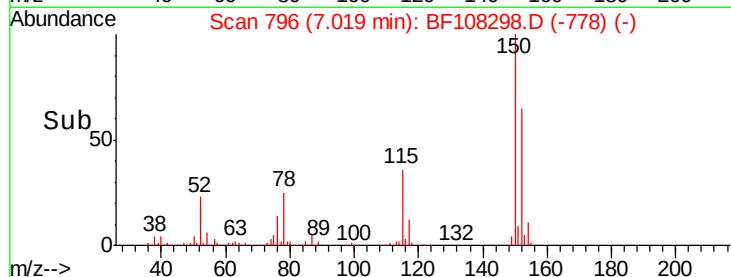
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Instrument :
BNA_F
ClientSampleId :
72-11988

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.6	186.8
115	55.3	50.1	75.1



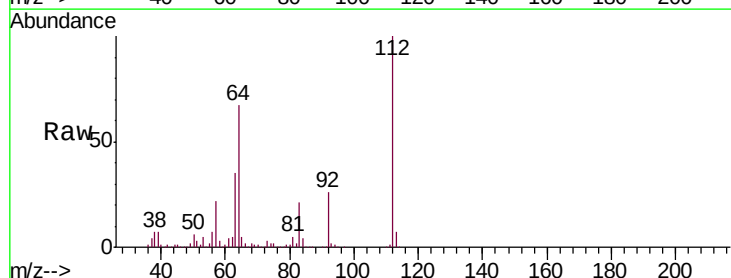
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



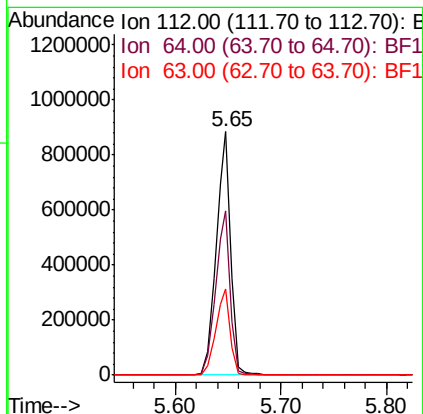
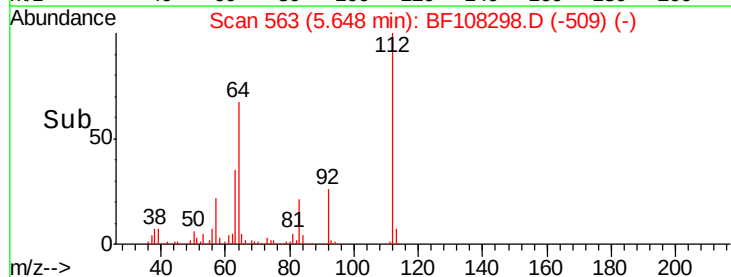
#5

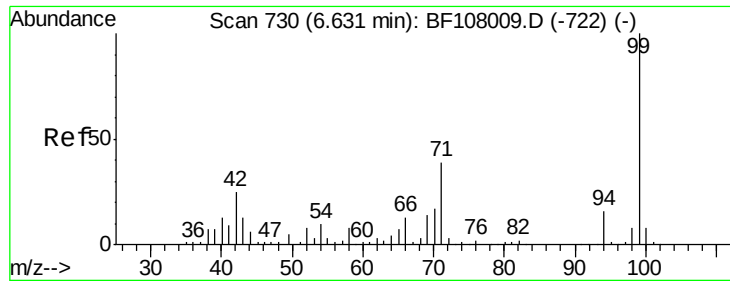
2-Fluorophenol
Concen: 93.911 ng
RT: 5.65 min Scan# 563
Delta R.T. 0.02 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.3	47.9	71.9
63	35.4	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: 92.094 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

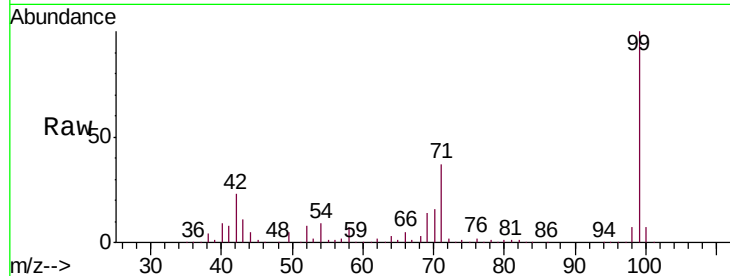
Tgt Ion: 99 Resp: 1123669

Ion Ratio Lower Upper

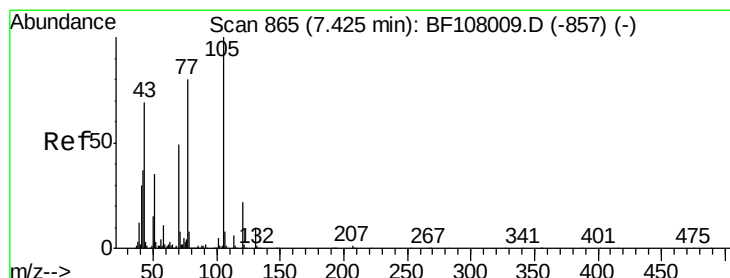
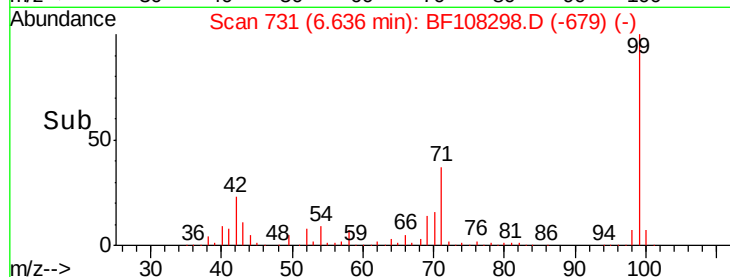
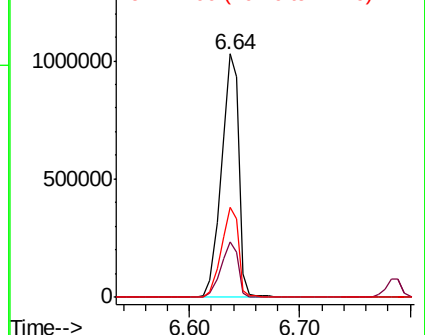
99 100

42 22.6 14.5 21.7#

71 37.1 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: 11.933 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Tgt Ion: 70 Resp: 98460

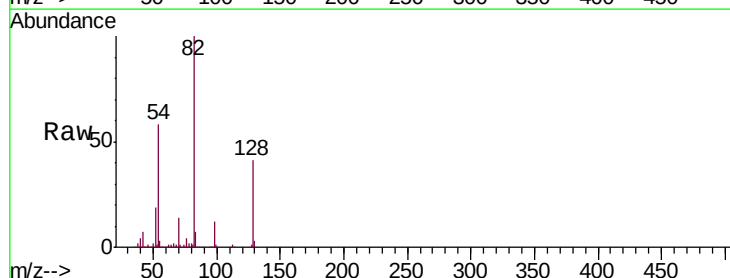
Ion Ratio Lower Upper

70 100

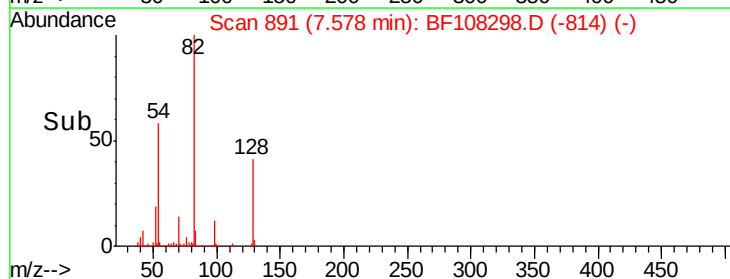
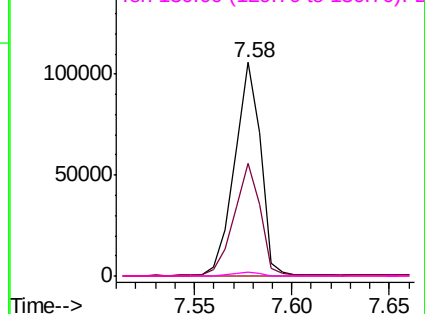
42 52.7 47.5 71.3

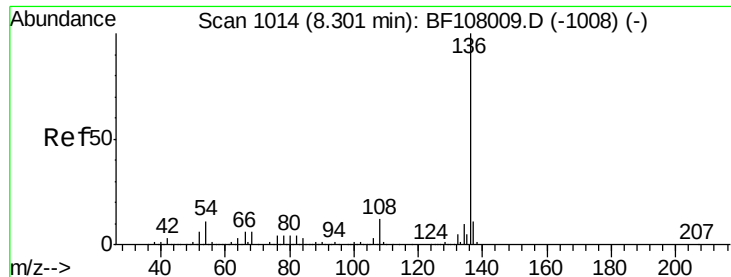
101 0.0 7.4 11.2#

130 2.1 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

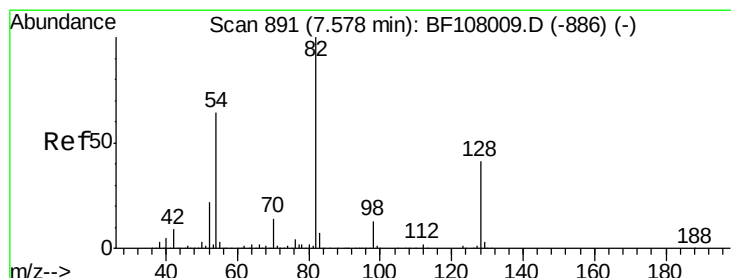
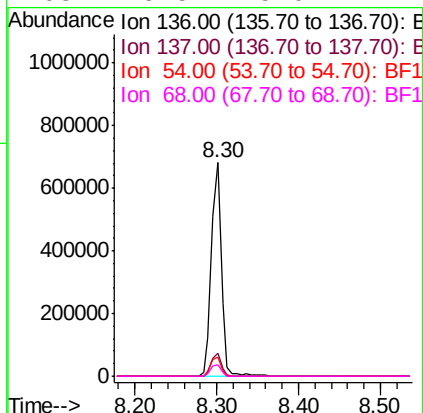
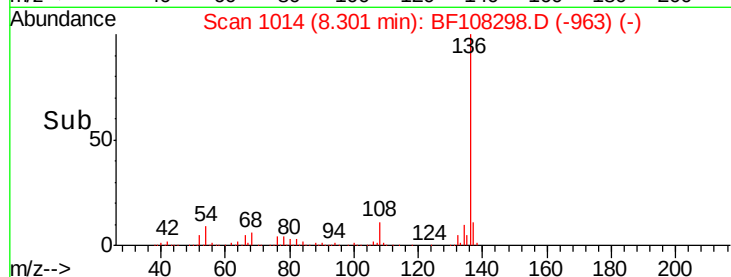
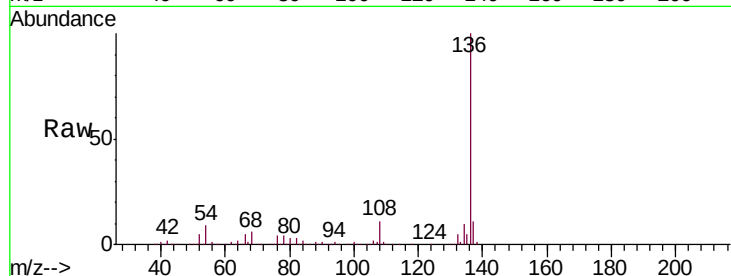




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.30 min Scan# 1014
Delta R.T. 0.00 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

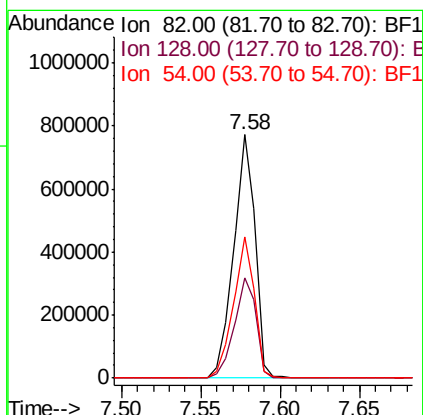
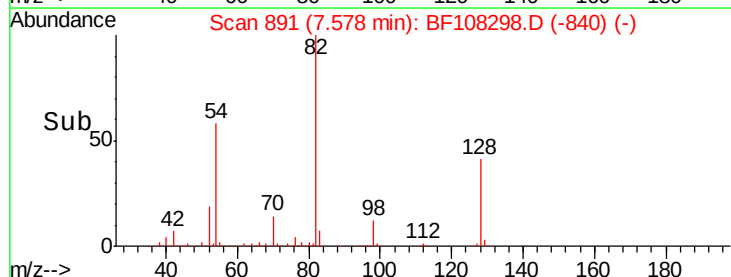
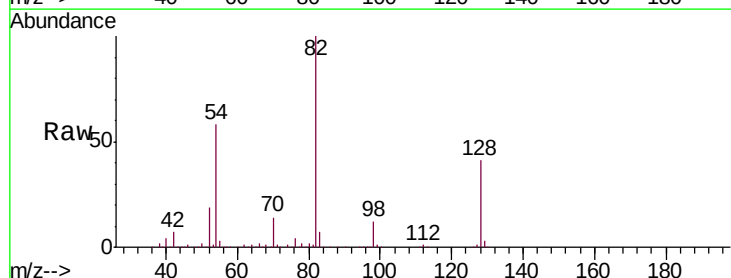
Instrument :
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72-11988

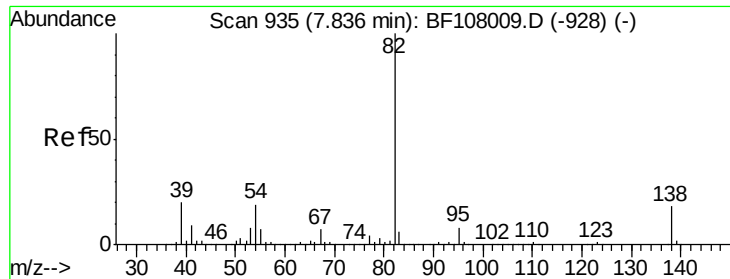
Tgt Ion:	136	Resp:	580109
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	9.0	6.6	9.8
68	5.5	5.0	7.4



#23
Nitrobenzene-d5
Concen: 69.749 ng
RT: 7.58 min Scan# 891
Delta R.T. 0.00 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion:	82	Resp:	725112
Ion	Ratio	Lower	Upper
82	100		
128	41.3	36.1	54.1
54	57.9	41.4	62.2





#25

Isophorone

Concen: 36.593 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

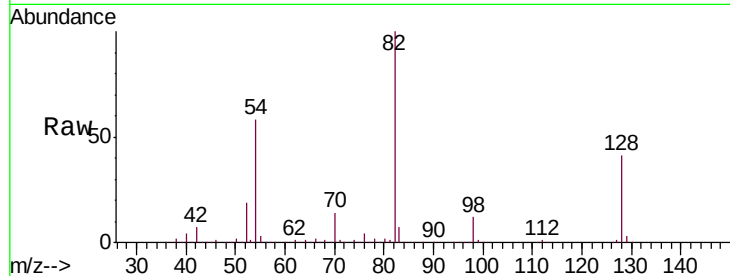
Tgt Ion: 82 Resp: 725095

Ion Ratio Lower Upper

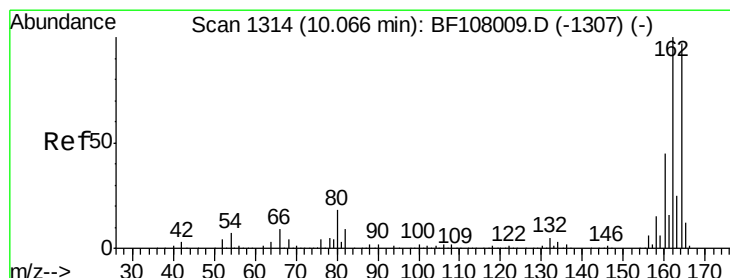
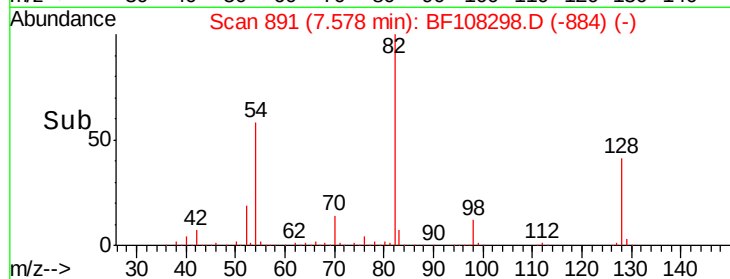
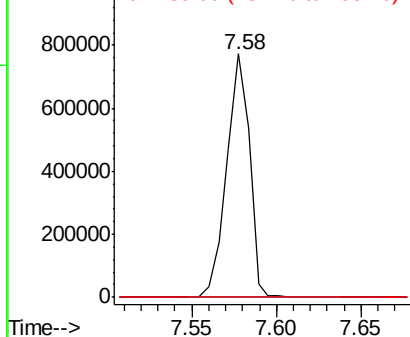
82 100

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: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

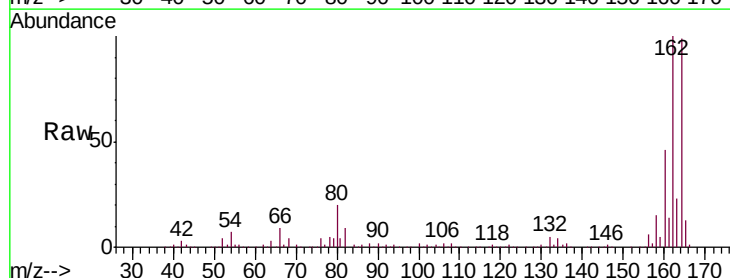
Tgt Ion: 164 Resp: 245615

Ion Ratio Lower Upper

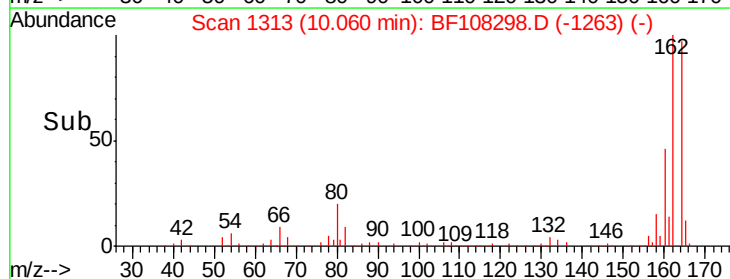
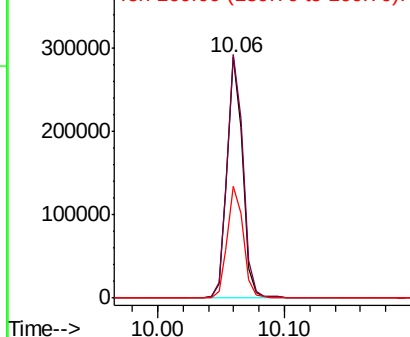
164 100

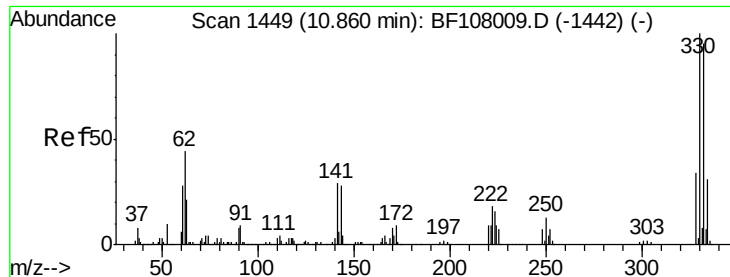
162 101.1 86.1 129.1

160 46.2 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

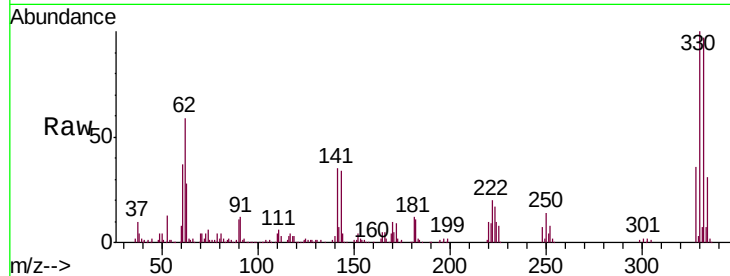




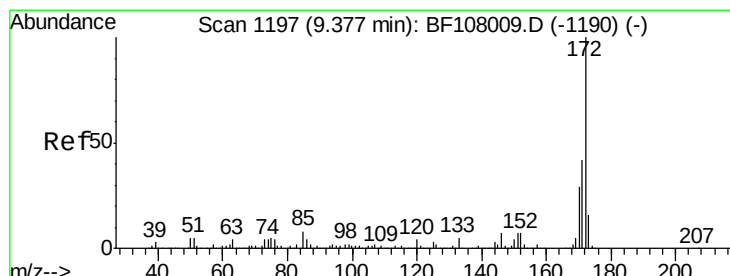
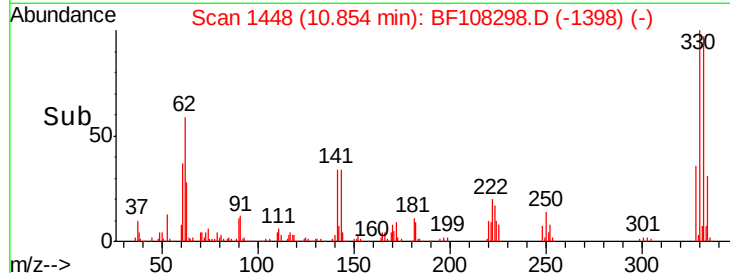
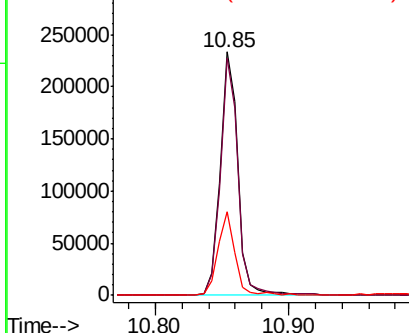
#41
 2,4,6-Tribromophenol
 Concen: 89.560 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

Instrument :
 BNA_F
 ClientSampleId :
 72-11988

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.0	115.6
141	32.7	29.9	44.9

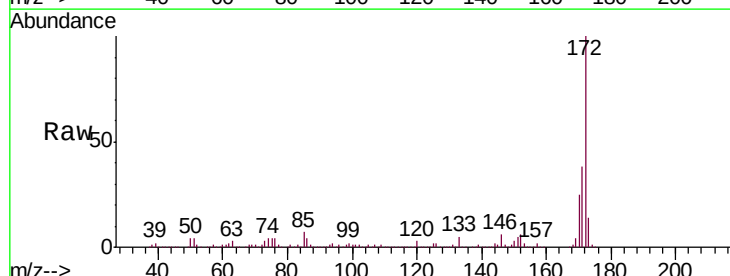


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

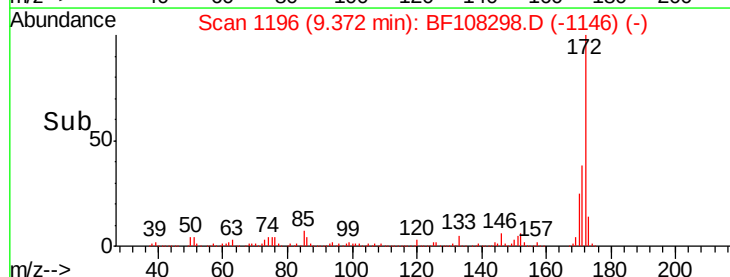
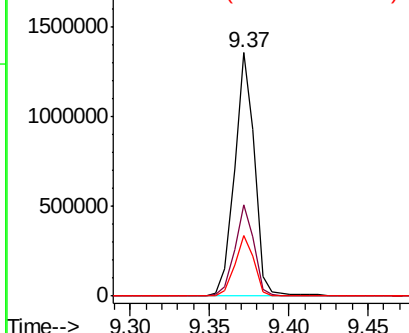


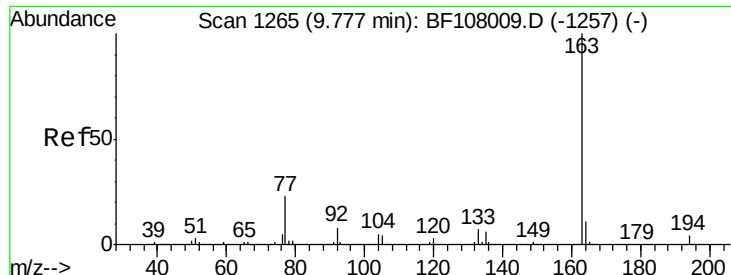
#44
 2-Fluorobiphenyl
 Concen: 77.224 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.7	44.5
170	24.8	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

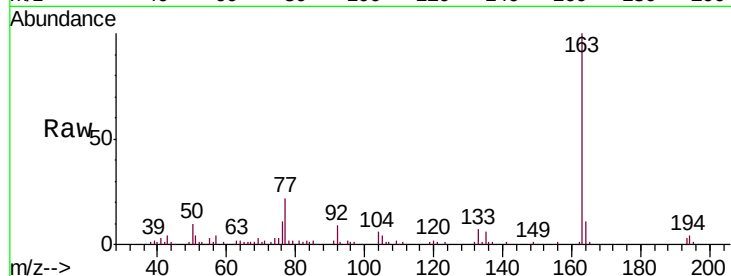




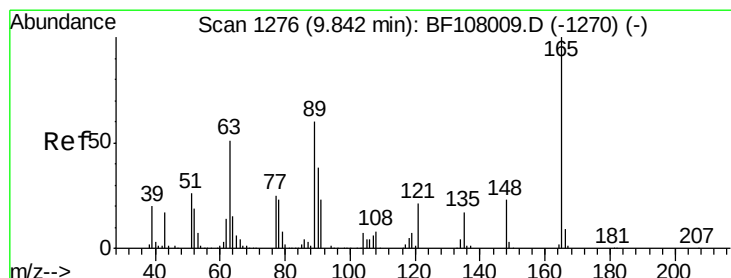
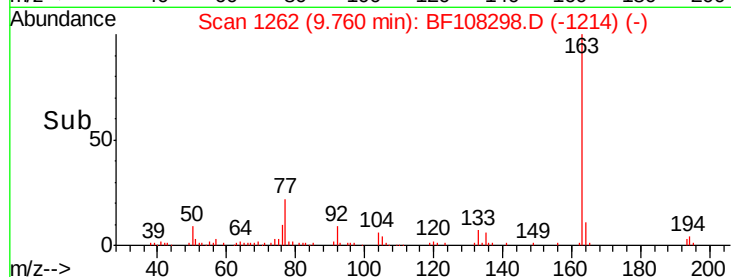
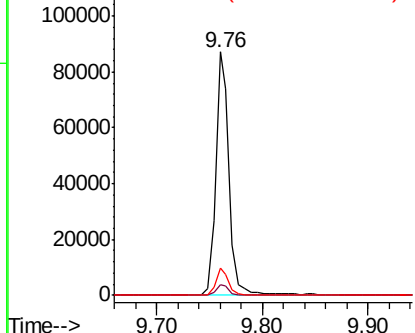
#49
Dimethylphthalate
Concen: 4.578 ng
RT: 9.76 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Instrument :
BNA_F
ClientSampleId :
72-11988

Tgt Ion:163 Resp: 78330
Ion Ratio Lower Upper
163 100
194 4.3 2.7 4.1#
164 11.1 8.2 12.2

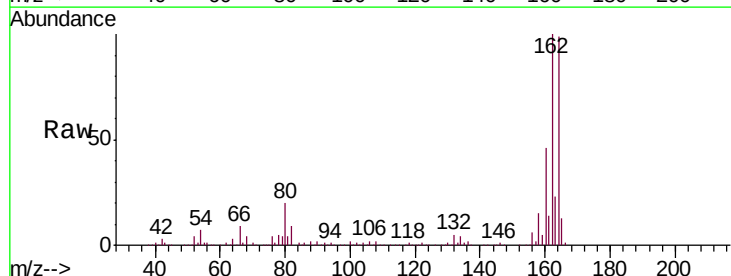


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

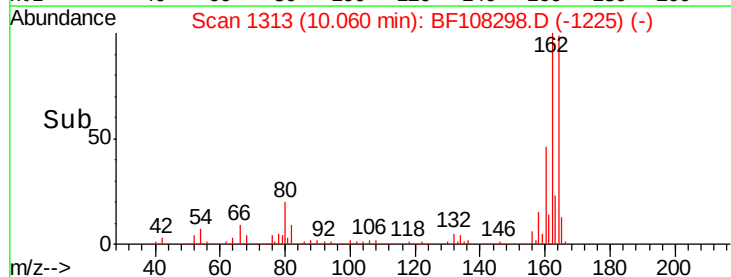
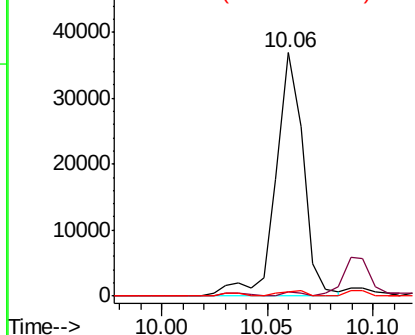


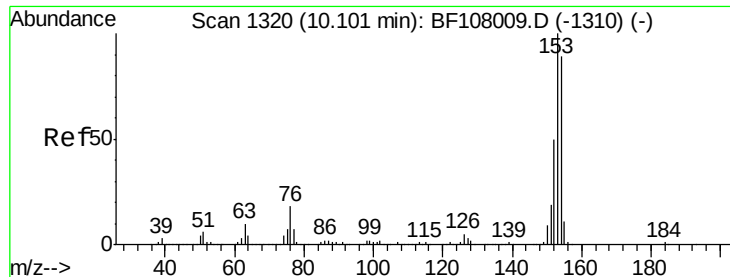
#50
2,6-Dinitrotoluene
Concen: 9.350 ng
RT: 10.06 min Scan# 1313
Delta R.T. 0.22 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion:165 Resp: 33468
Ion Ratio Lower Upper
165 100
63 1.6 44.7 67.1#
89 1.7 44.0 66.0#



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





#51

Acenaphthene

Concen: 3.946 ng

RT: 10.10 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

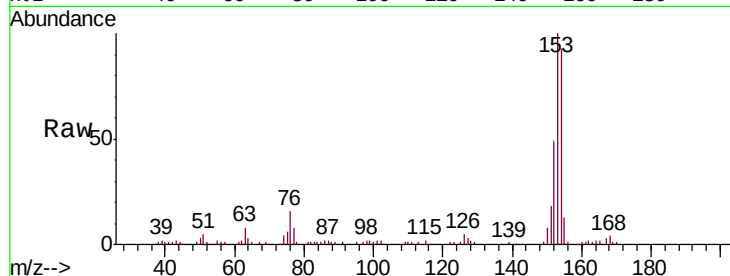
Tgt Ion:154 Resp: 54683

Ion Ratio Lower Upper

154 100

153 107.9 91.2 136.8

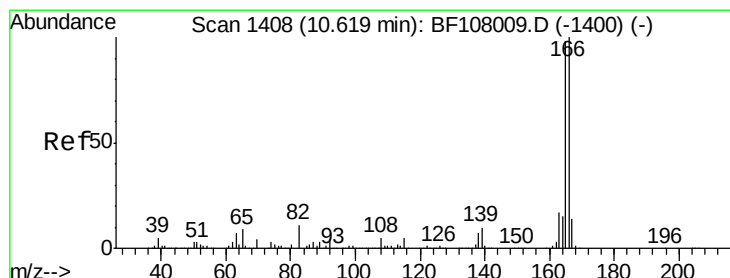
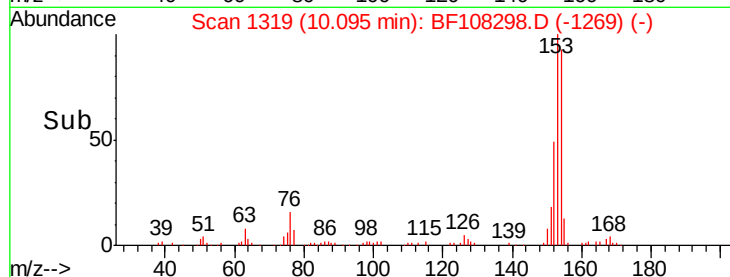
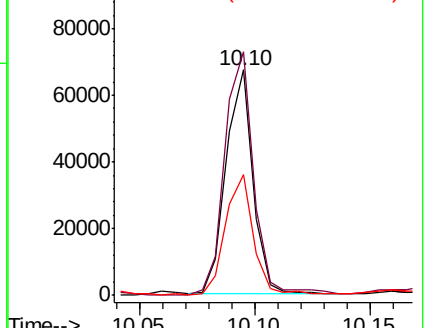
152 53.3 43.8 65.8



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



#57

Fluorene

Concen: 5.172 ng

RT: 10.61 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

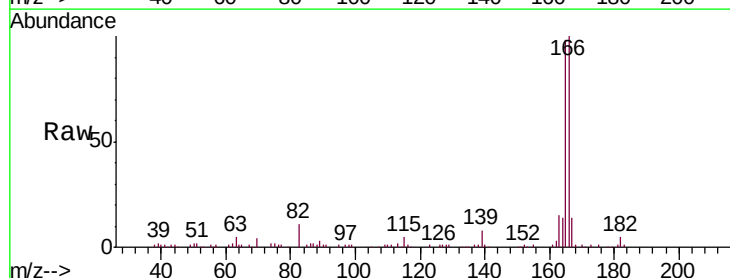
Tgt Ion:166 Resp: 82203

Ion Ratio Lower Upper

166 100

165 97.7 79.8 119.8

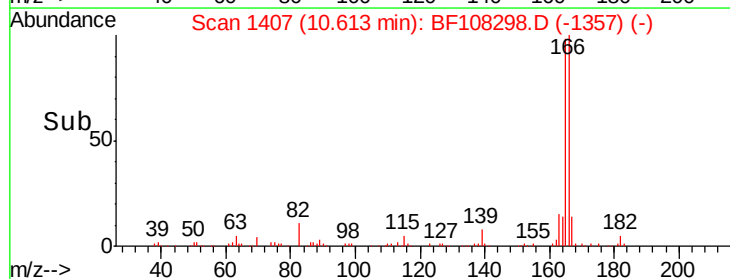
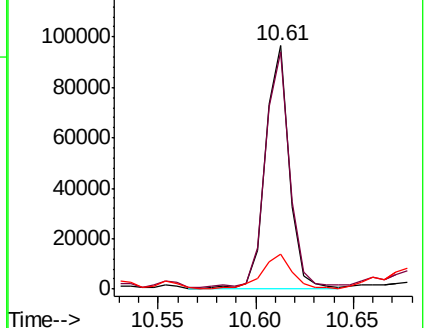
167 14.5 10.6 16.0

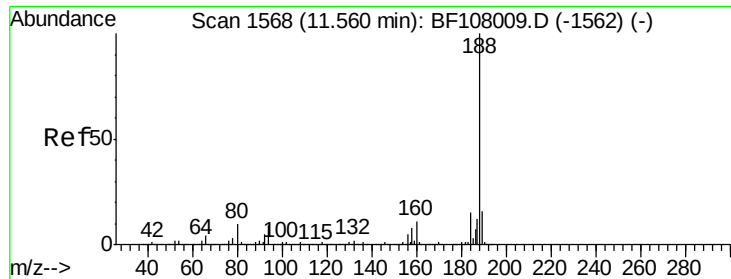


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

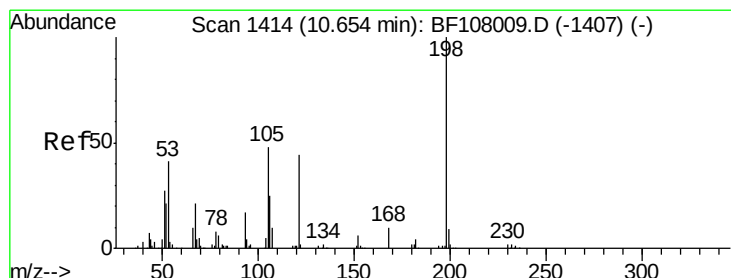
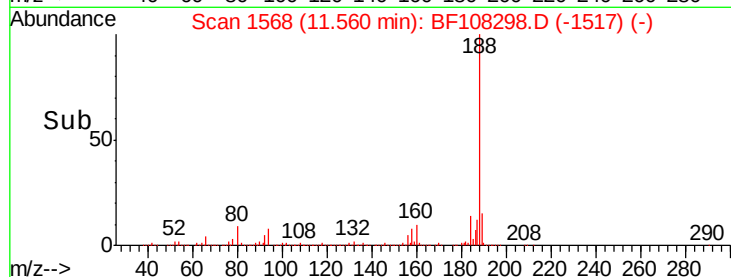
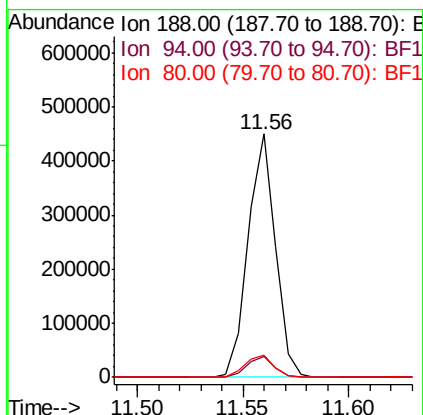
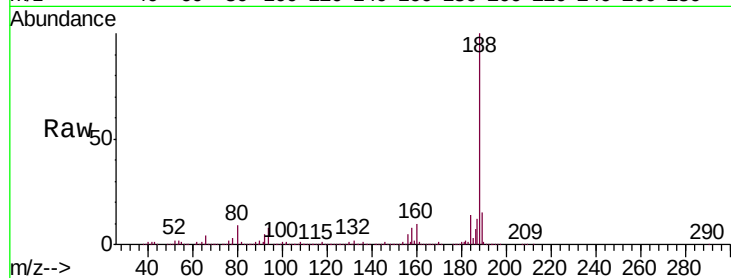




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.56 min Scan# 1568
Delta R.T. 0.00 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

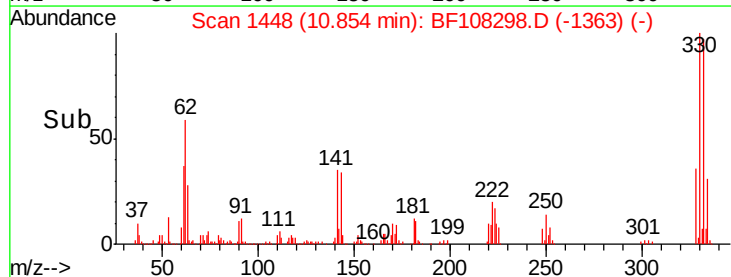
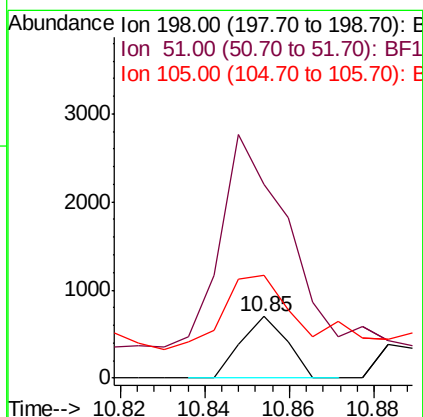
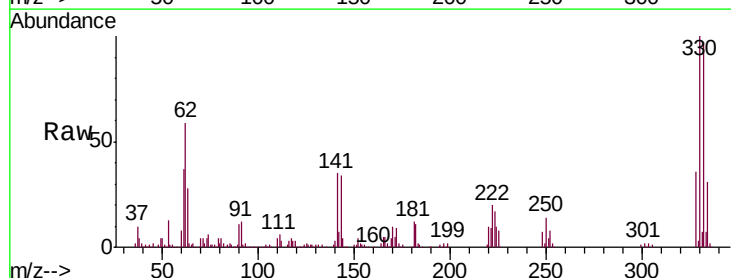
Instrument :
BNA_F
ClientSampleId :
72-11988

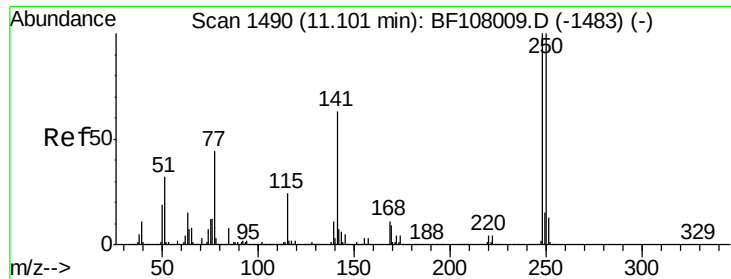
Tgt Ion:188 Resp: 404591
Ion Ratio Lower Upper
188 100
94 8.5 8.5 12.7#
80 9.0 9.2 13.8#



#64
4,6-Dinitro-2-methylphenol
Concen: 5.664 ng
RT: 10.85 min Scan# 1448
Delta R.T. 0.20 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion:198 Resp: 522
Ion Ratio Lower Upper
198 100
51 316.8 37.7 77.7#
105 166.8 36.3 76.3#

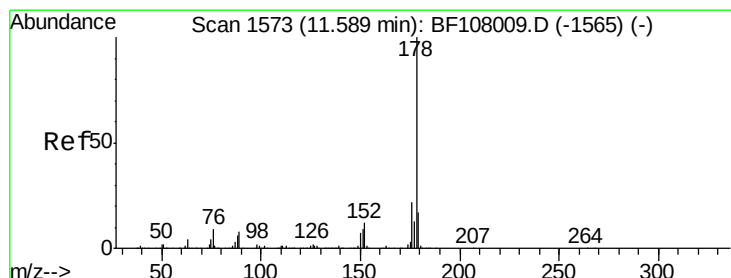
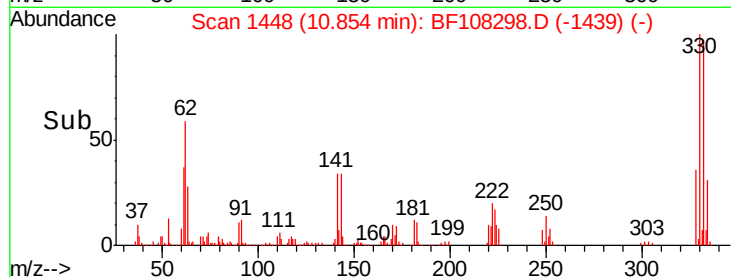
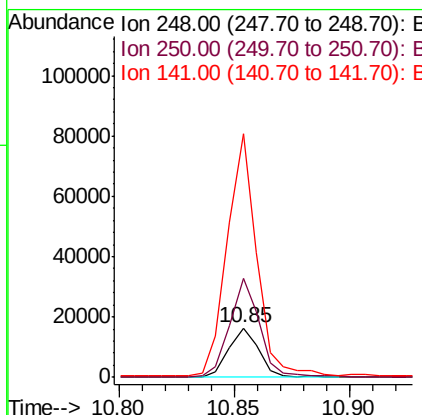
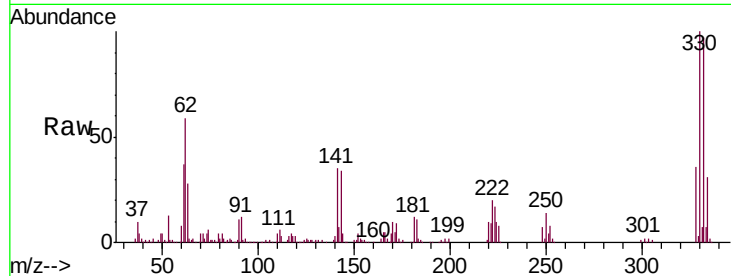




#66
 4-Bromophenyl-phenylether
 Concen: 3.402 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.25 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

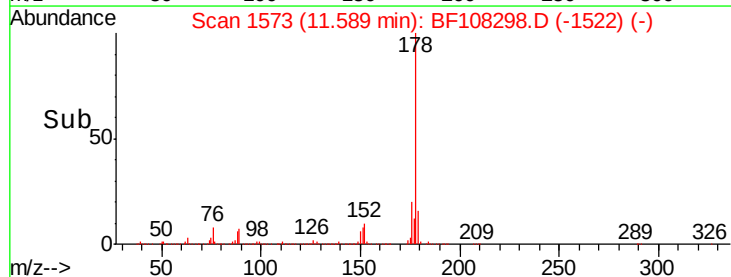
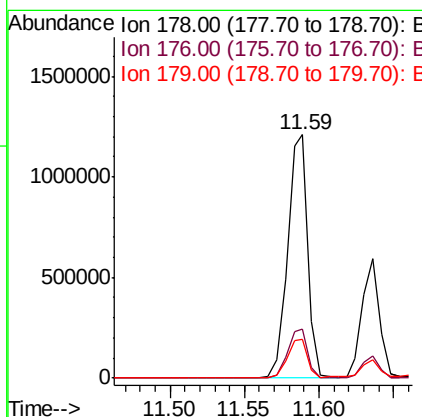
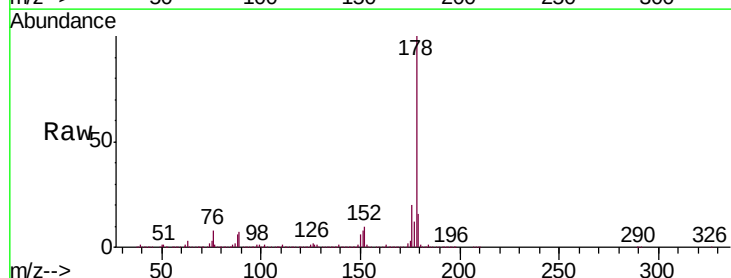
Instrument :
 BNA_F
 ClientSampleId :
 72-11988

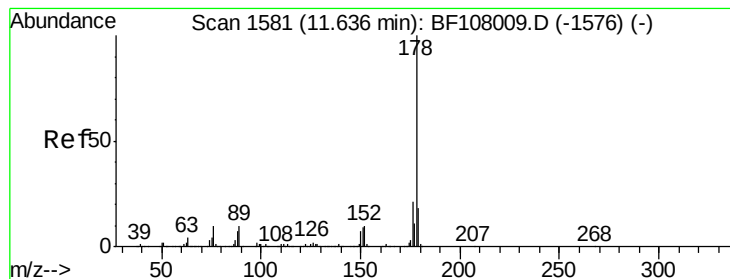
Tgt Ion:248 Resp: 14956
 Ion Ratio Lower Upper
 248 100
 250 200.6 76.9 115.3#
 141 495.5 74.4 111.6#



#70
 Phenanthrene
 Concen: 60.381 ng
 RT: 11.59 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

Tgt Ion:178 Resp: 1152256
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.8 23.8
 179 15.9 13.0 19.6





#71

Anthracene

Concen: 24.032 ng

RT: 11.64 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

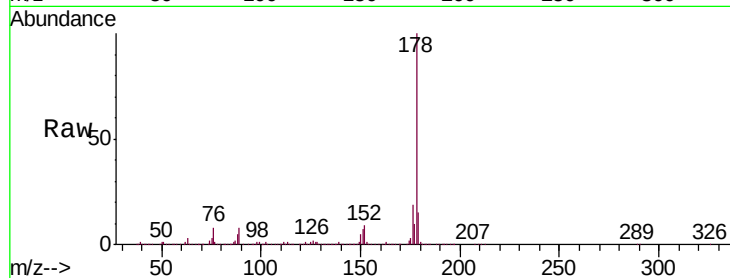
Tgt Ion:178 Resp: 470034

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

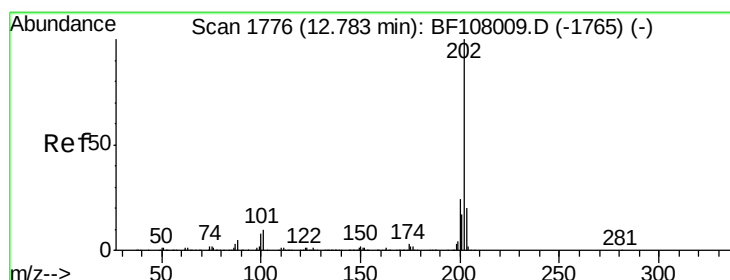
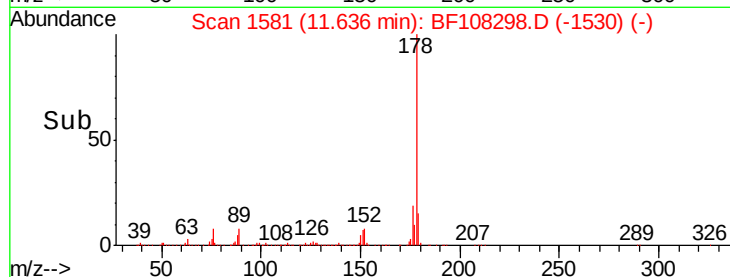
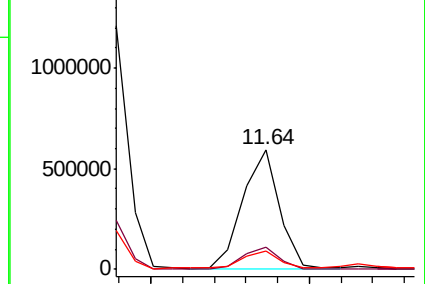
179 15.4 12.6 19.0



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: 128.958 ng

RT: 12.79 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

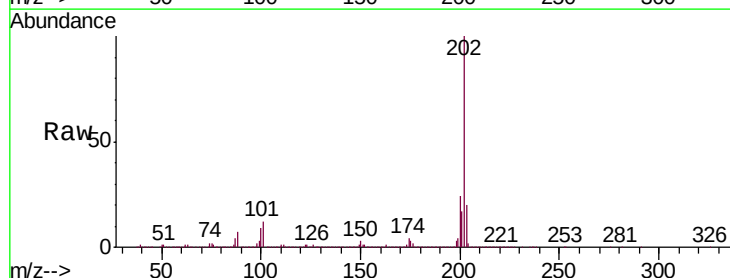
Tgt Ion:202 Resp: 2685797

Ion Ratio Lower Upper

202 100

101 12.3 0.0 34.1

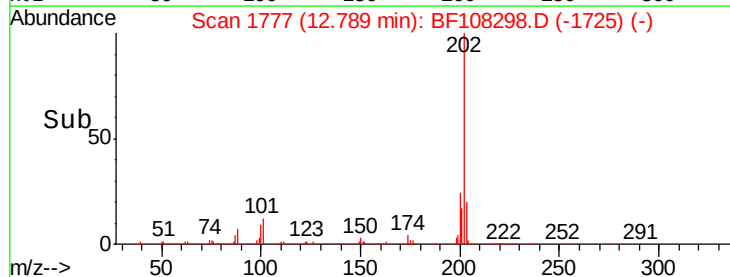
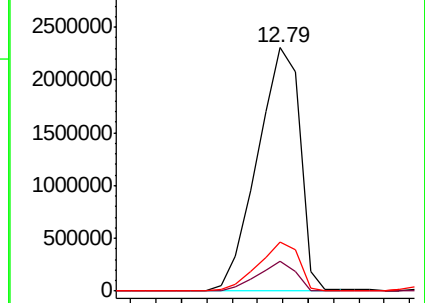
203 19.9 0.0 38.1

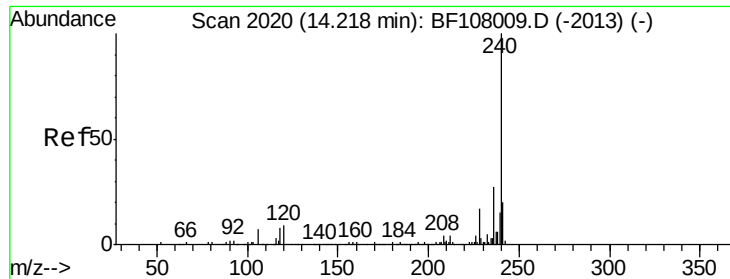


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

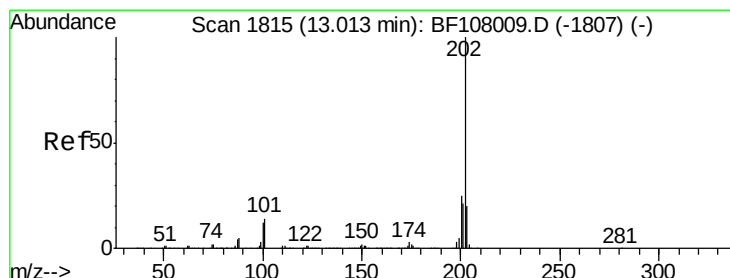
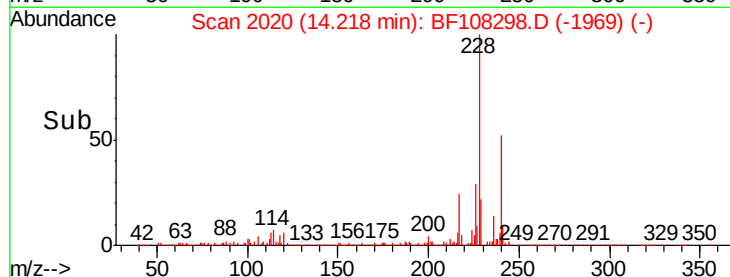
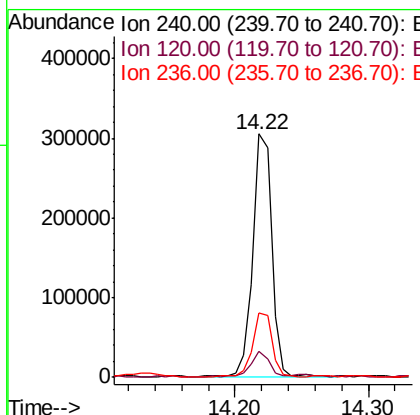
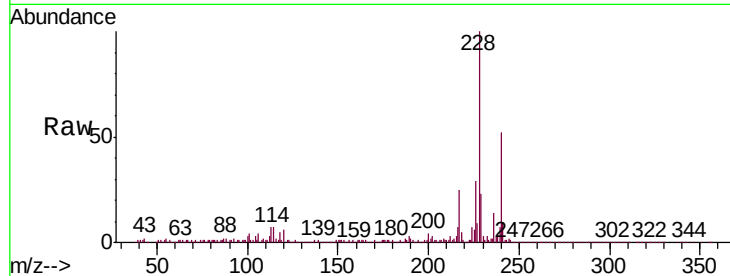




#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.22 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

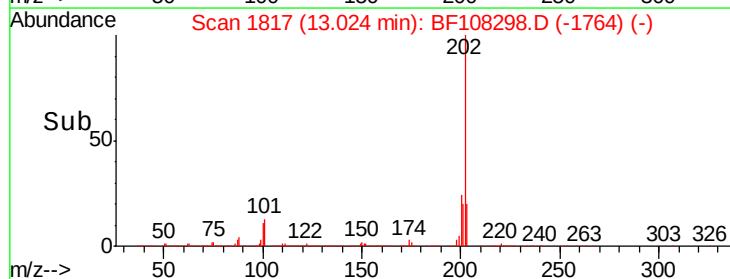
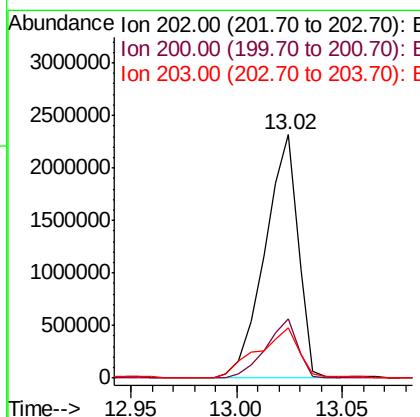
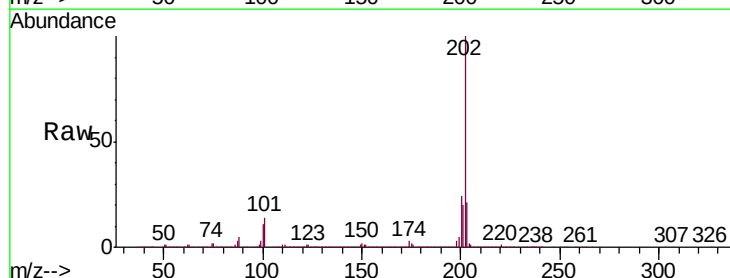
Instrument :
 BNA_F
 ClientSampleId :
 72-11988

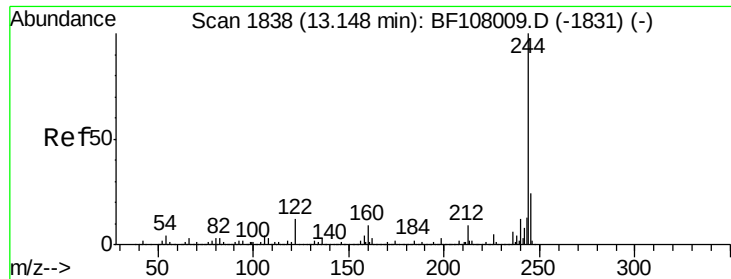
Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.5	14.3
236	26.3	20.7	31.1



#77
 Pyrene
 Concen: 134.767 ng
 RT: 13.02 min Scan# 1817
 Delta R.T. 0.01 min
 Lab File: BF108298.D
 Acq: 20 Aug 2018 18:57

Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.2	17.4	26.2
203	20.6	14.3	21.5





#78

Terphenyl-d14

Concen: 82.237 ng

RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

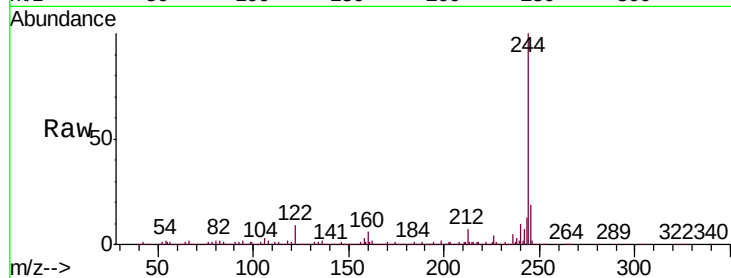
Tgt Ion:244 Resp: 957954

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

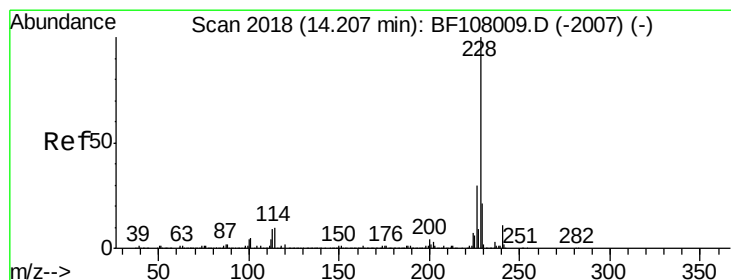
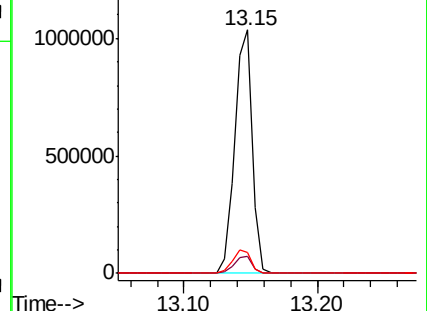
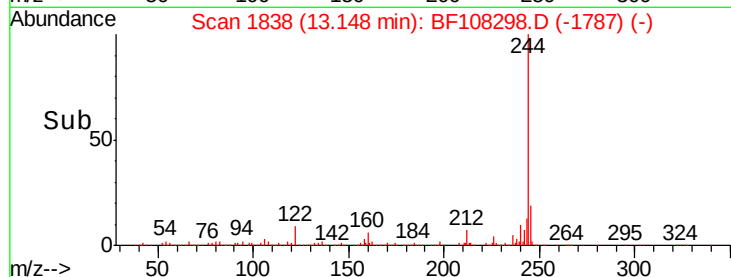
122 8.7 11.0 16.4#



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



#80

Benzo(a)anthracene

Concen: 81.431 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

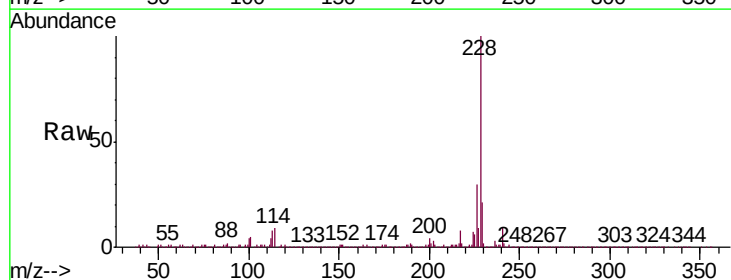
Tgt Ion:228 Resp: 1384123

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

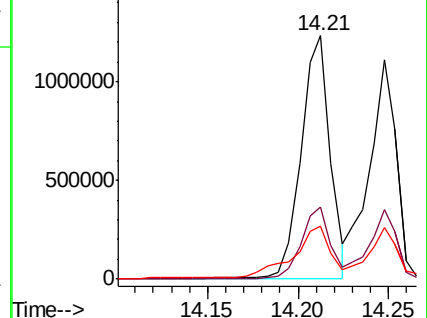
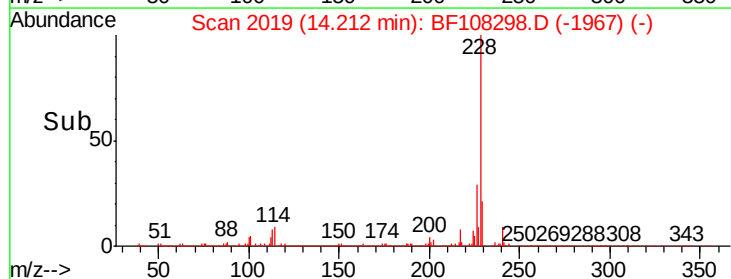
229 21.5 15.8 23.6

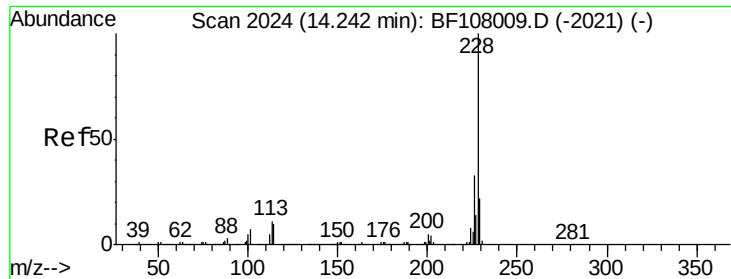


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 74.200 ng

RT: 14.25 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

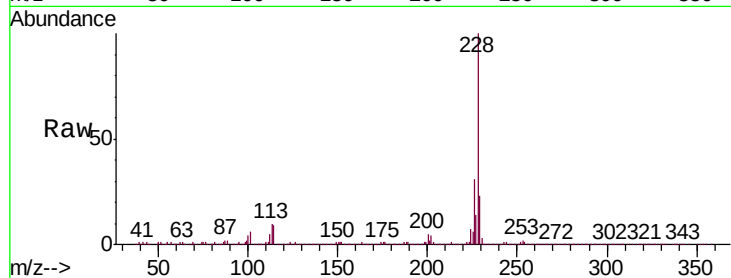
Tgt Ion:228 Resp: 1156263

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.6

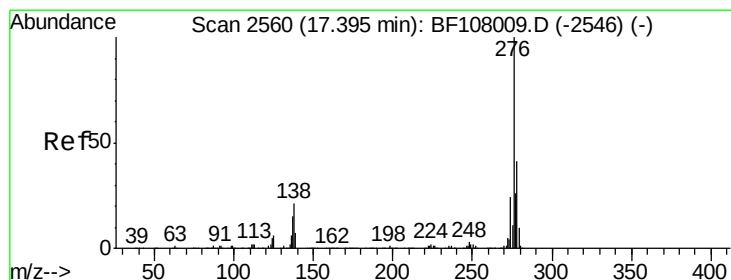
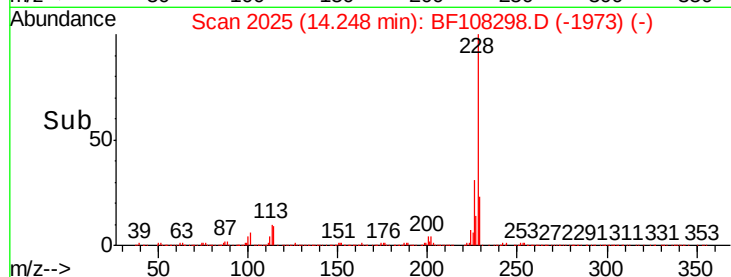
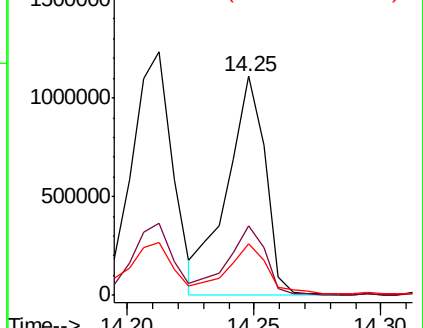
229 23.4 16.2 24.4



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: 33.794 ng

RT: 17.42 min Scan# 2564

Delta R.T. 0.02 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

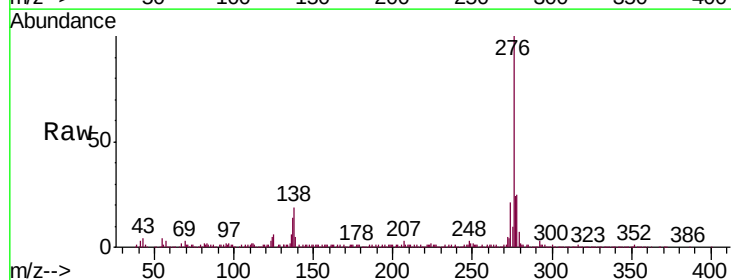
Tgt Ion:276 Resp: 456294

Ion Ratio Lower Upper

276 100

138 18.7 25.0 37.6#

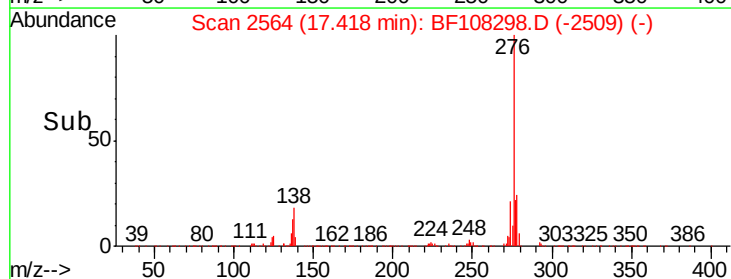
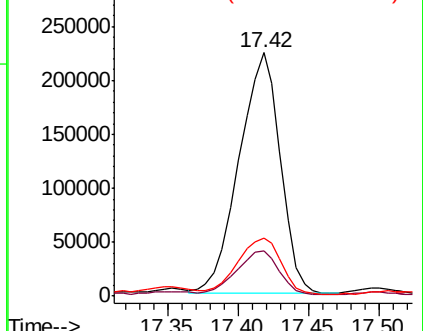
277 24.8 20.1 30.1

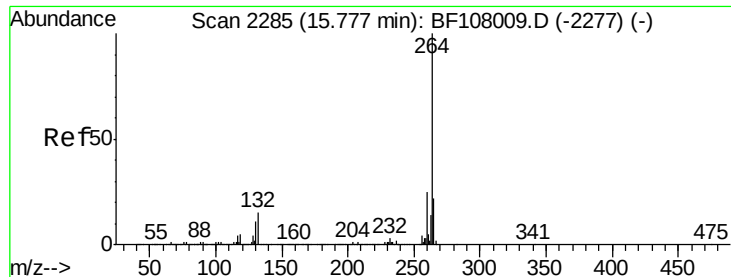


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



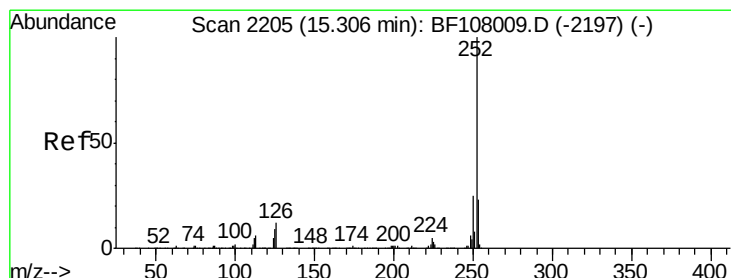
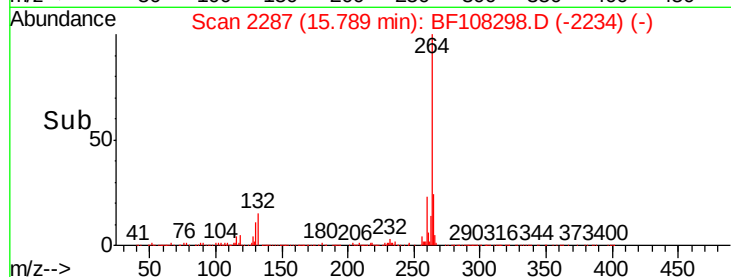
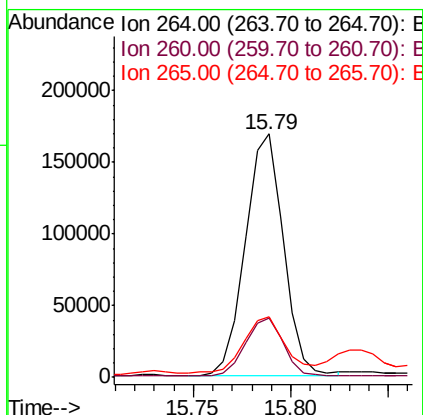
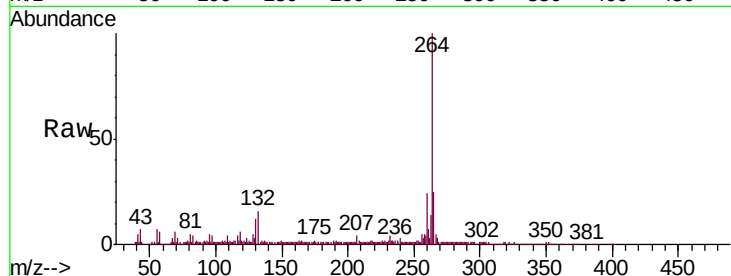


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Instrument :
BNA_F
ClientSampleId :
72-11988

Tgt Ion: 264 Resp: 228817

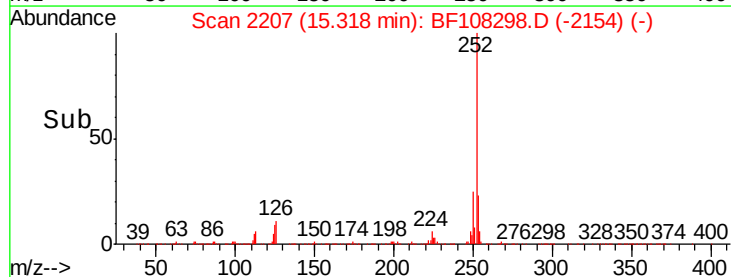
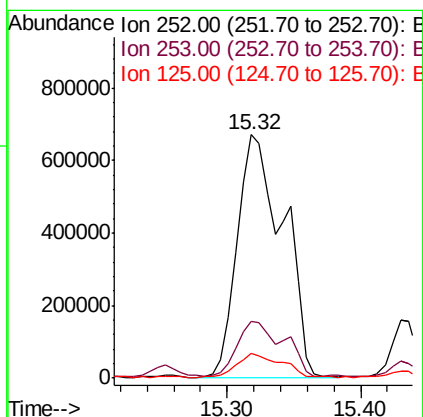
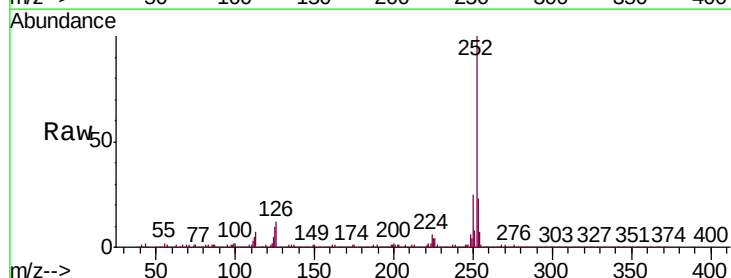
Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	24.9	17.5	26.3

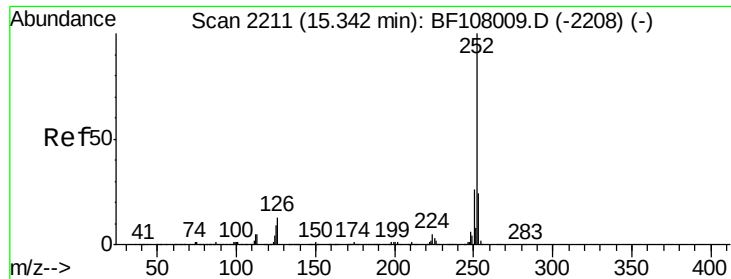


#87
Benzo(b)fluoranthene
Concen: 117.413 ng
RT: 15.32 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion: 252 Resp: 1605359

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	9.9	9.0	13.6

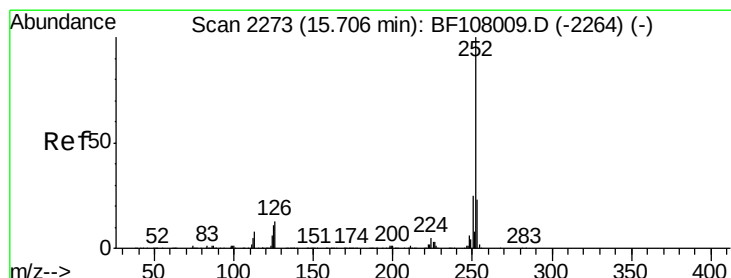
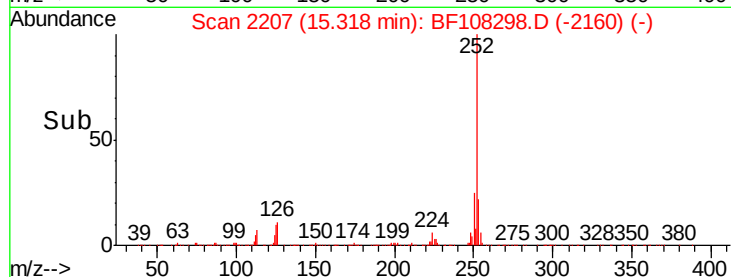
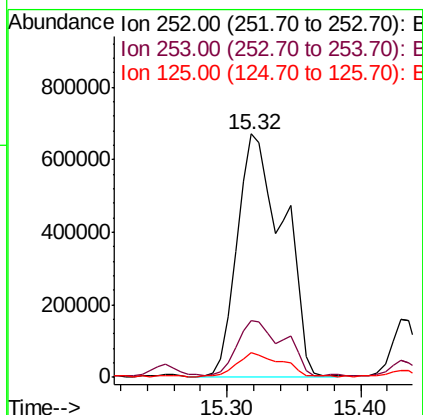
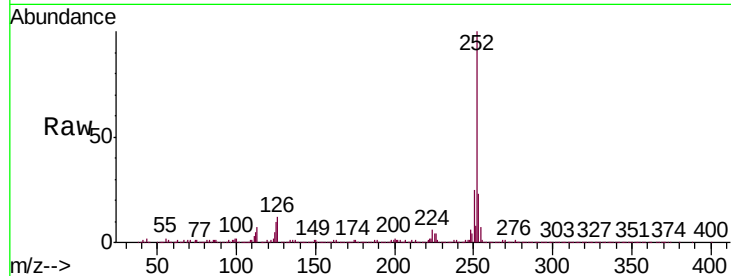




#88
Benzo(k)fluoranthene
Concen: 127.728 ng
RT: 15.32 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

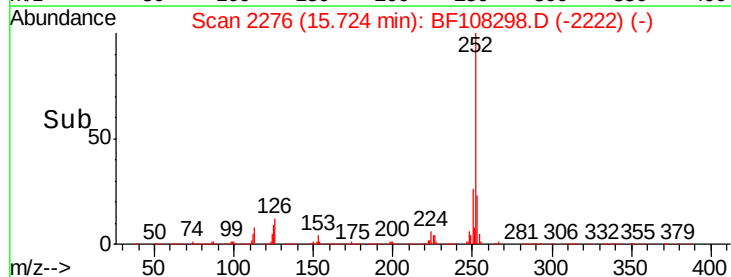
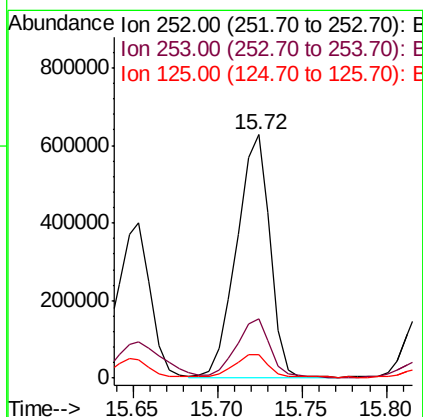
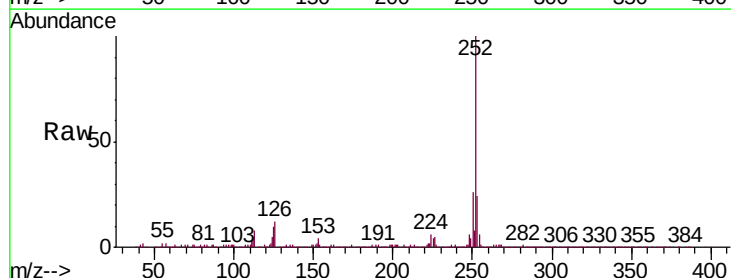
Instrument :
BNA_F
ClientSampleId :
72-11988

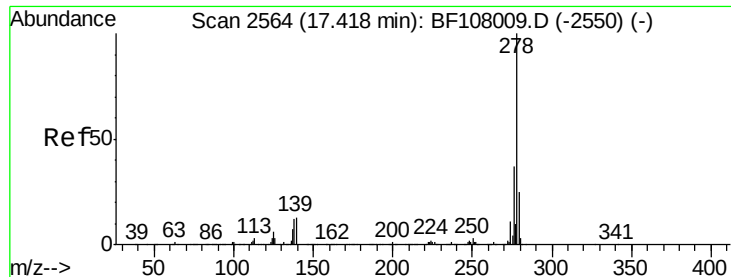
Tgt Ion:252 Resp: 1605359
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 9.9 10.2 15.2#



#89
Benzo(a)pyrene
Concen: 70.111 ng
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF108298.D
Acq: 20 Aug 2018 18:57

Tgt Ion:252 Resp: 858404
Ion Ratio Lower Upper
252 100
253 24.2 17.1 25.7
125 9.9 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 12.322 ng

RT: 17.42 min Scan# 2565

Delta R.T. 0.01 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

Instrument :

BNA_F

ClientSampleId :

72-11988

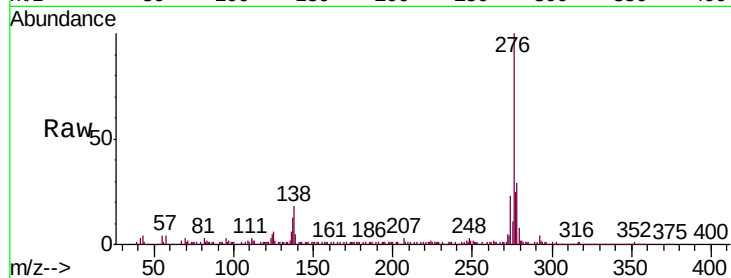
Tgt Ion:278 Resp: 124826

Ion Ratio Lower Upper

278 100

139 17.7 15.9 23.9

279 28.2 19.0 28.4

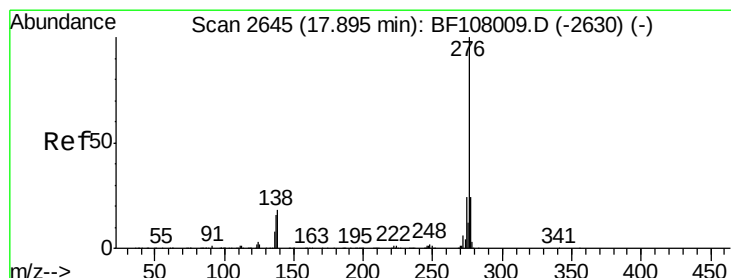
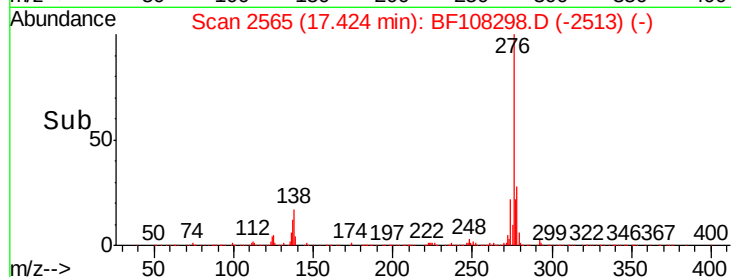
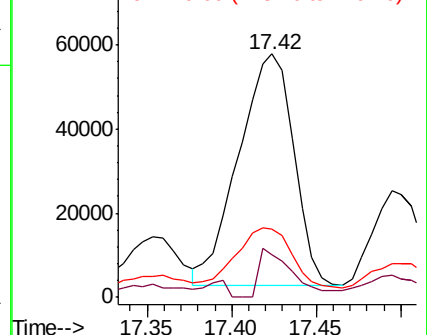


Abundance

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(g,h,i)perylene

Concen: 40.620 ng

RT: 17.92 min Scan# 2649

Delta R.T. 0.02 min

Lab File: BF108298.D

Acq: 20 Aug 2018 18:57

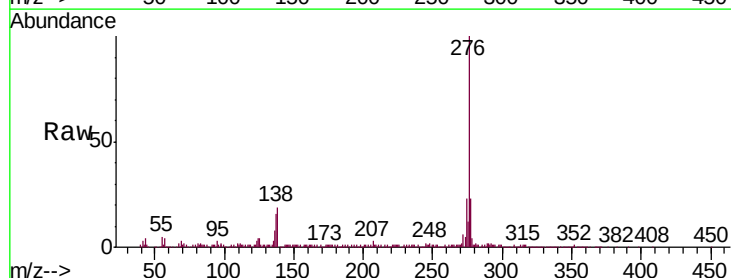
Tgt Ion:276 Resp: 405192

Ion Ratio Lower Upper

276 100

277 23.2 17.9 26.9

138 18.8 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

