

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082018\
 Data File : BF108300.D
 Acq On : 20 Aug 2018 19:51
 Operator : JU/SJ
 Sample : J4521-19 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11967

Quant Time: Aug 21 00:53:36 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

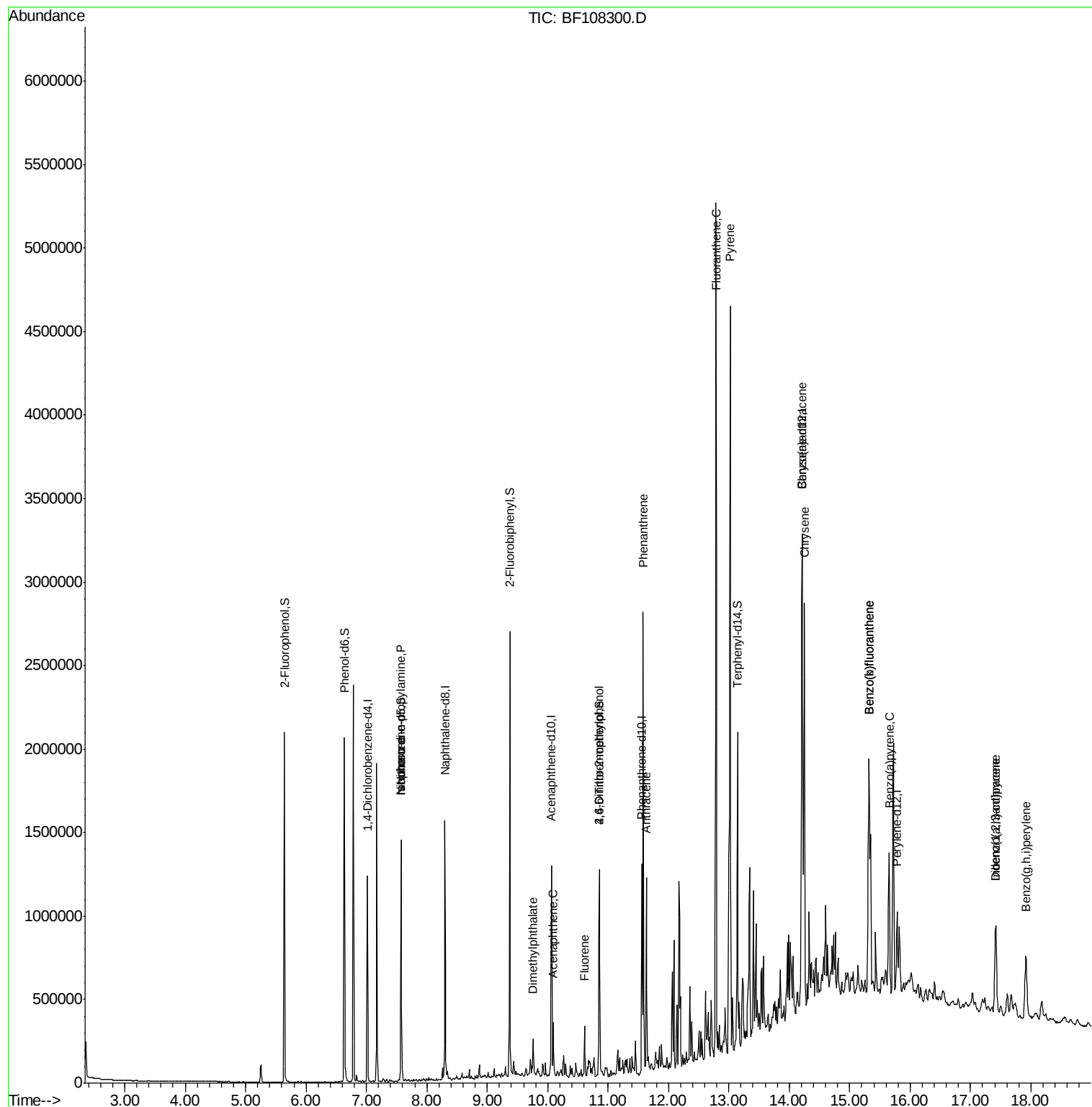
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	174146	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	614909	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	259086	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	451624	20.00	ng	0.00
75) Chrysene-d12	14.22	240	316646	20.00	ng	0.00
86) Perylene-d12	15.79	264	251025	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	515925	53.64	ng	0.01
7) Phenol-d6	6.64	99	683674	53.49	ng	0.00
23) Nitrobenzene-d5	7.58	82	429296	38.96	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	134508	52.05	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	754619	46.76	ng	0.00
78) Terphenyl-d14	13.14	244	613922	49.30	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.58	70	56189	6.501	ng	# 84
25) Isophorone	7.58	82	429289	20.439	ng	# 64
49) Dimethylphthalate	9.76	163	59209	3.281	ng	# 97
51) Acenaphthene	10.10	154	55733	3.812	ng	97
57) Fluorene	10.61	166	80745	4.816	ng	97
64) 4,6-Dinitro-2-methylphenol	10.85	198	122	5.423	ng	# 1
70) Phenanthrene	11.58	178	1036843	48.675	ng	100
71) Anthracene	11.64	178	412714	18.904	ng	99
74) Fluoranthene	12.79	202	2241251	96.406	ng	96
77) Pyrene	13.02	202	2111457	105.325	ng	96
80) Benzo(a)anthracene	14.21	228	1110148	61.090	ng	97
82) Chrysene	14.25	228	917528	55.073	ng	98
85) Indeno(1,2,3-cd)pyrene	17.42	276	398158	27.582	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	1335886	89.060	ng	95
88) Benzo(k)fluoranthene	15.32	252	1335886	96.884	ng	# 95
89) Benzo(a)pyrene	15.65	252	460186	34.261	ng	96
90) Dibenzo(a,h)anthracene	17.42	278	110587	9.951	ng	# 73
91) Benzo(g,h,i)perylene	17.92	276	354606	32.404	ng	# 89

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

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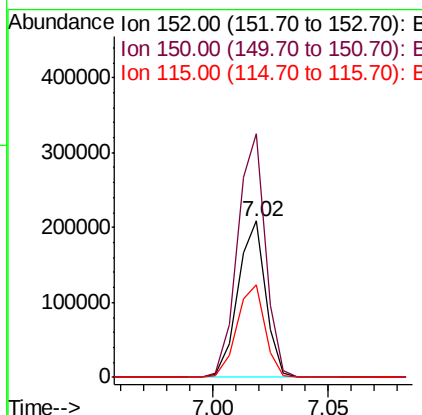
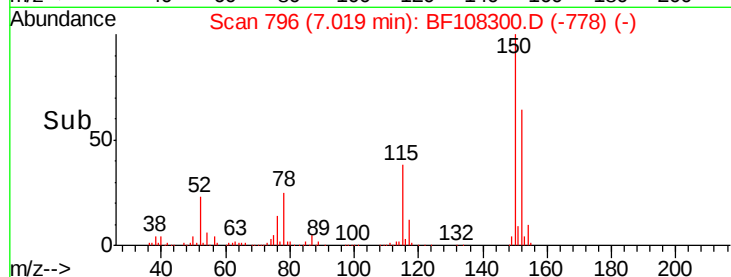
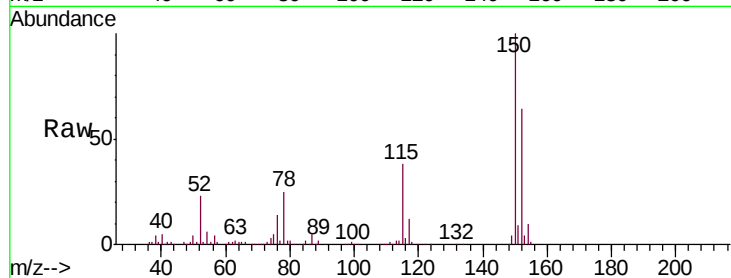


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Instrument :
BNA_F
ClientSampleId :
72-11967

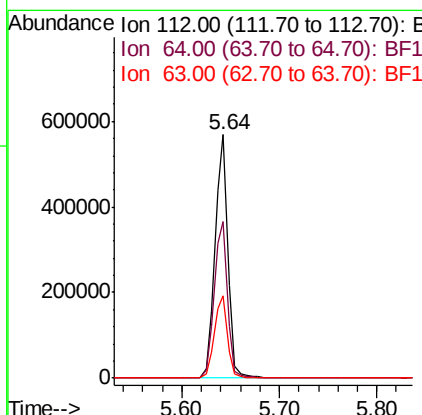
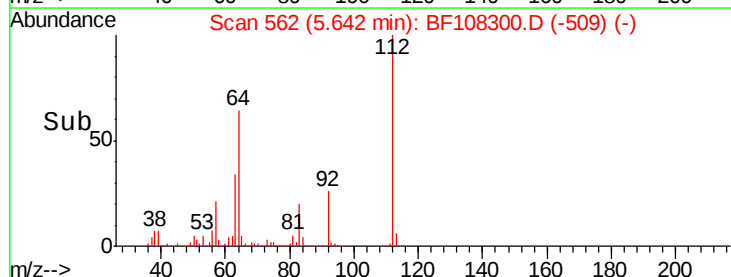
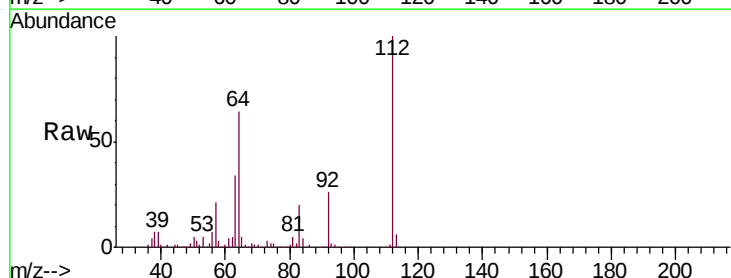
Tgt Ion:152 Resp: 174146
Ion Ratio Lower Upper
152 100
150 156.0 124.6 186.8
115 59.0 50.1 75.1



#5

2-Fluorophenol
Concen: 53.637 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Tgt Ion:112 Resp: 515925
Ion Ratio Lower Upper
112 100
64 64.2 47.9 71.9
63 33.7 23.7 35.5





#7

Phenol-d6

Concen: 53.486 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

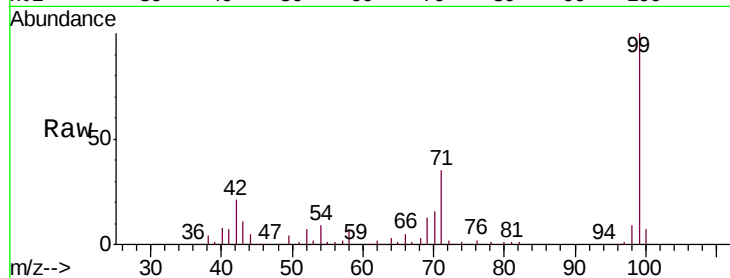
Tgt Ion: 99 Resp: 683674

Ion Ratio Lower Upper

99 100

42 20.7 14.5 21.7

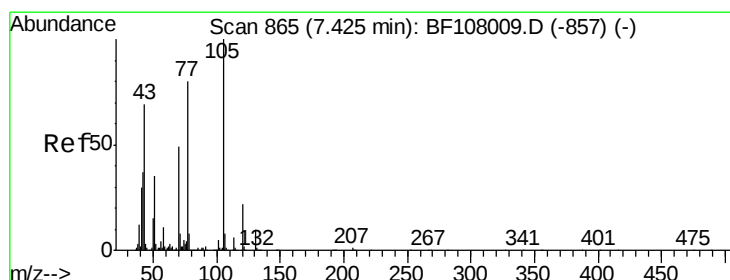
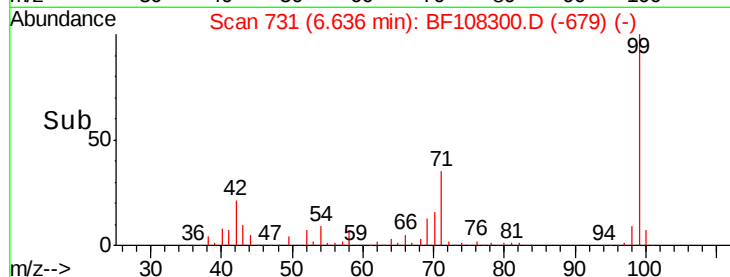
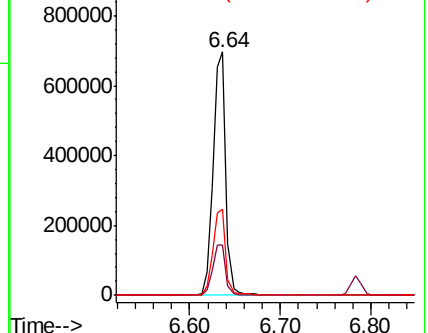
71 35.3 25.4 38.0



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: 6.501 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Tgt Ion: 70 Resp: 56189

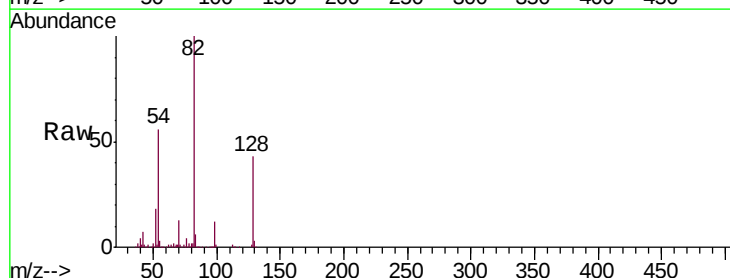
Ion Ratio Lower Upper

70 100

42 54.7 47.5 71.3

101 0.0 7.4 11.2#

130 1.9 16.6 25.0#

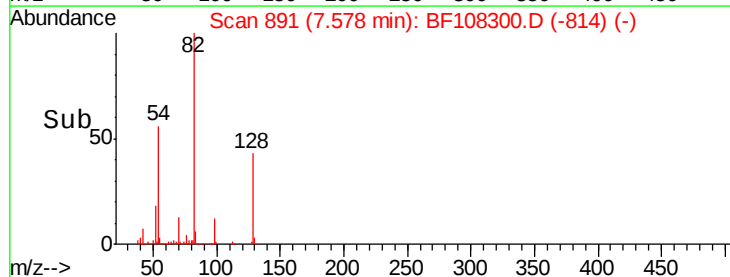
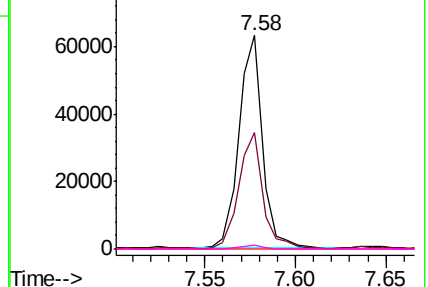


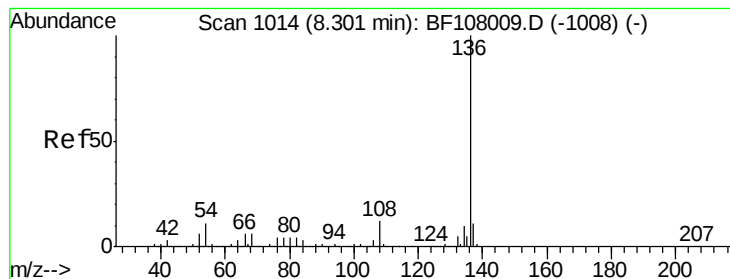
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

Tgt Ion:136 Resp: 614909

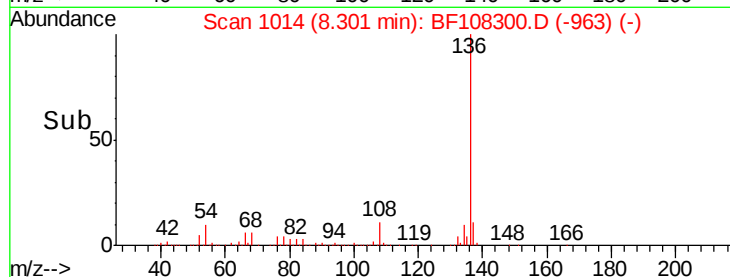
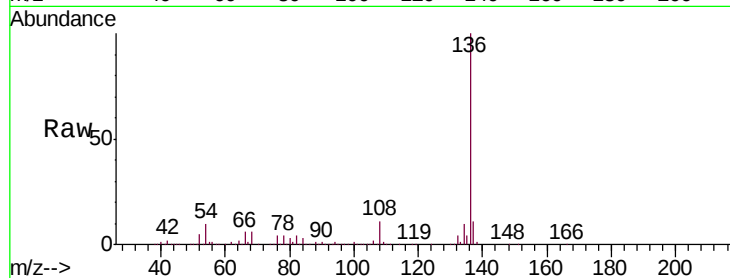
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 9.8 6.6 9.8

68 6.0 5.0 7.4

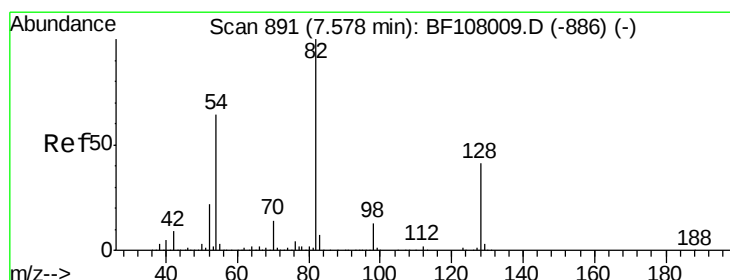
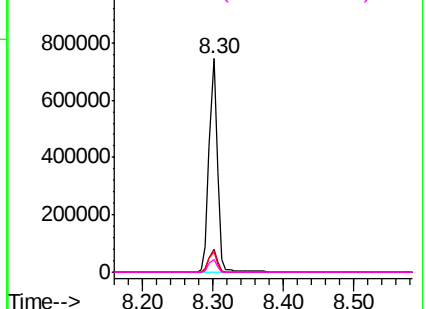


Abundance Ion 136.00 (135.70 to 136.70): E

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: 38.958 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.00 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

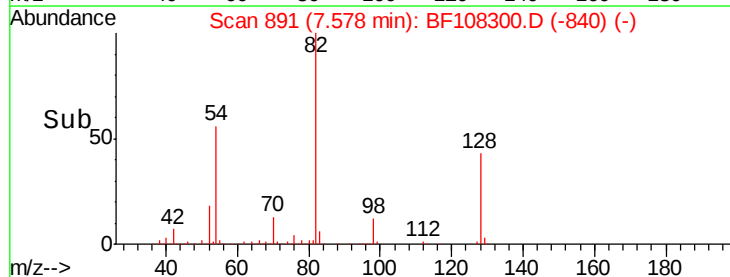
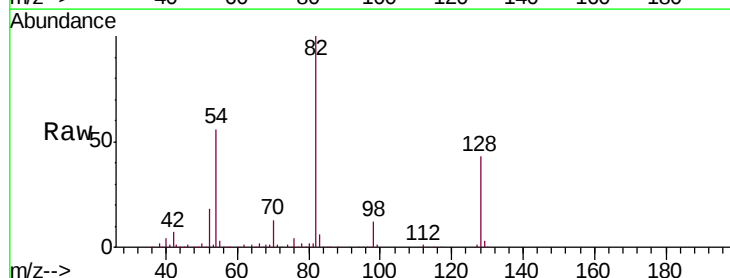
Tgt Ion: 82 Resp: 429296

Ion Ratio Lower Upper

82 100

128 42.9 36.1 54.1

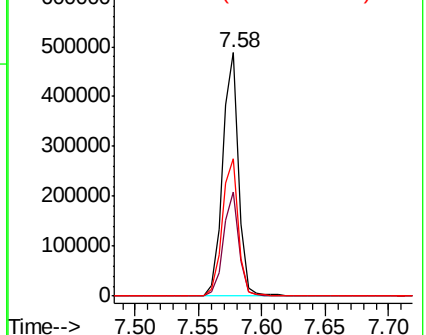
54 56.2 41.4 62.2



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

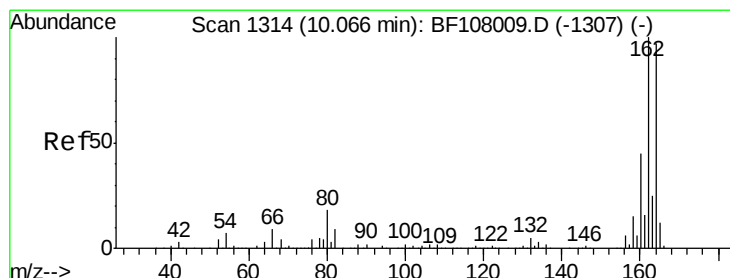
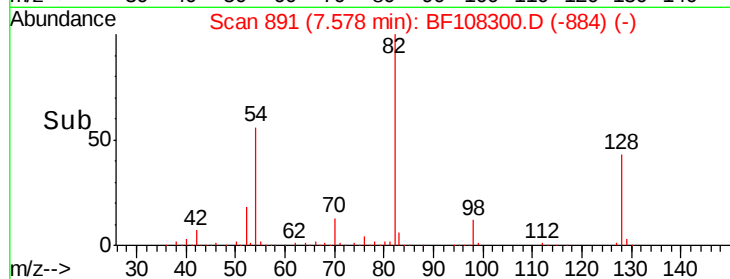
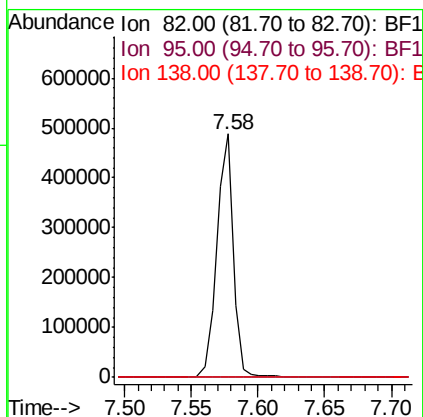
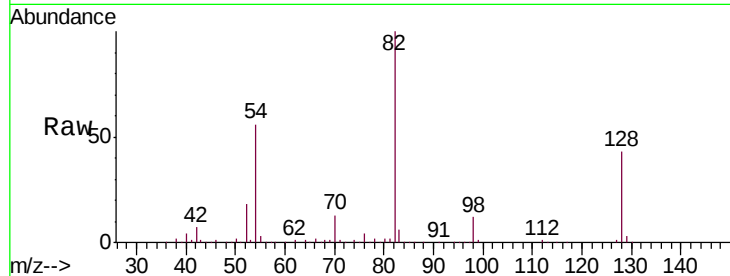




#25
Isophorone
Concen: 20.439 ng
RT: 7.58 min Scan# 891
Delta R.T. -0.26 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

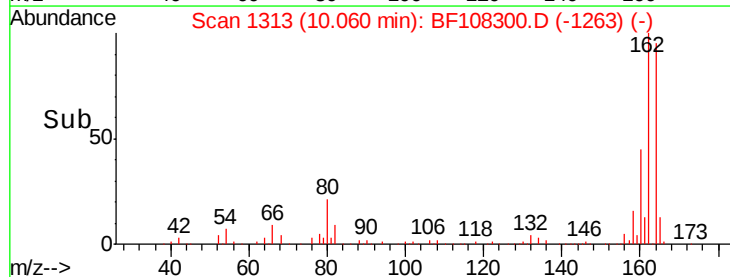
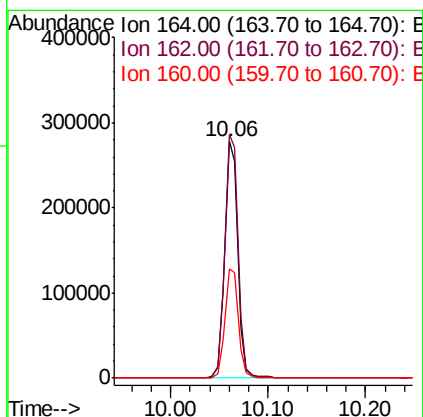
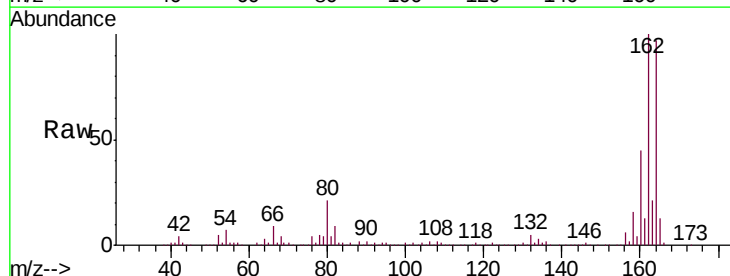
Instrument :
BNA_F
ClientSampleId :
72-11967

Tgt Ion: 82 Resp: 429289
Ion Ratio Lower Upper
82 100
95 0.1 5.2 7.8#
138 0.0 14.9 22.3#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.06 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Tgt Ion: 164 Resp: 259086
Ion Ratio Lower Upper
164 100
162 102.9 86.1 129.1
160 46.3 38.3 57.5

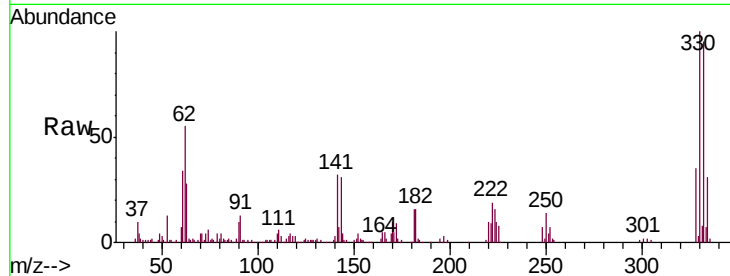




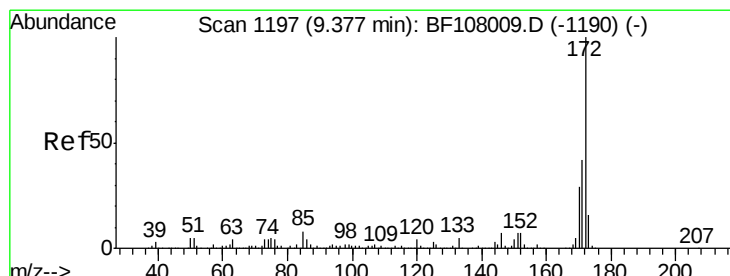
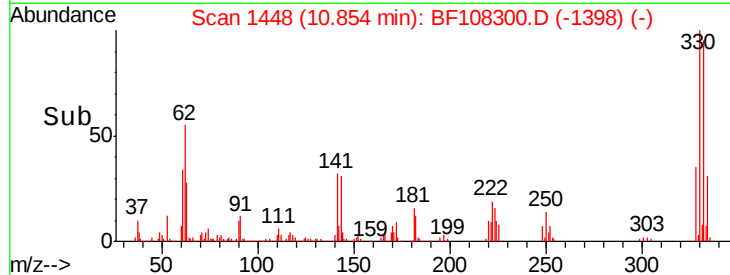
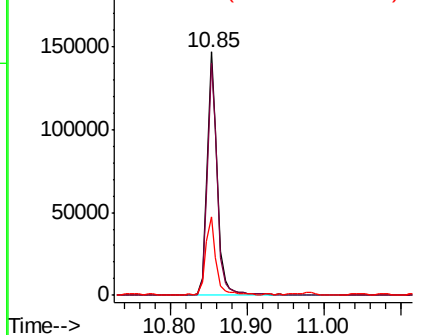
#41
 2,4,6-Tribromophenol
 Concen: 52.048 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Instrument :
 BNA_F
 ClientSampleId :
 72-11967

Tgt Ion:	330	Resp:	134508
Ion	Ratio	Lower	Upper
330	100		
332	94.5	77.0	115.6
141	32.1	29.9	44.9

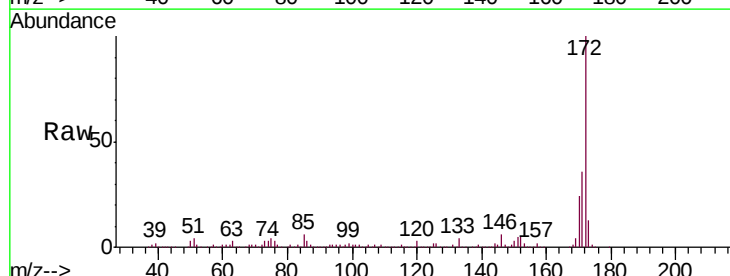


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

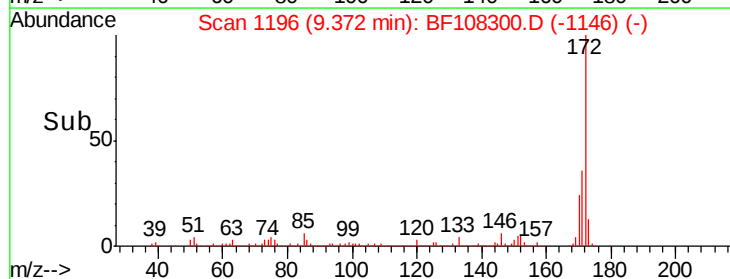
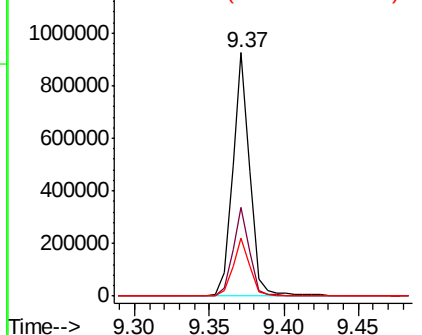


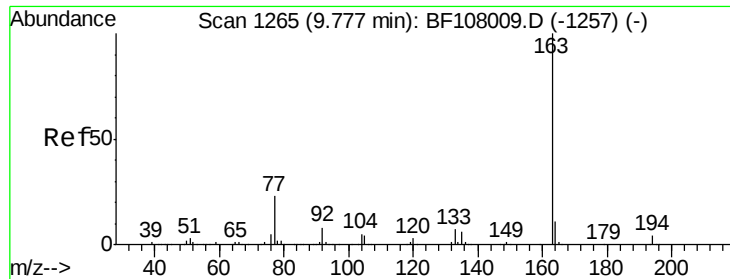
#44
 2-Fluorobiphenyl
 Concen: 46.761 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Tgt Ion:	172	Resp:	754619
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.7	44.5
170	23.7	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

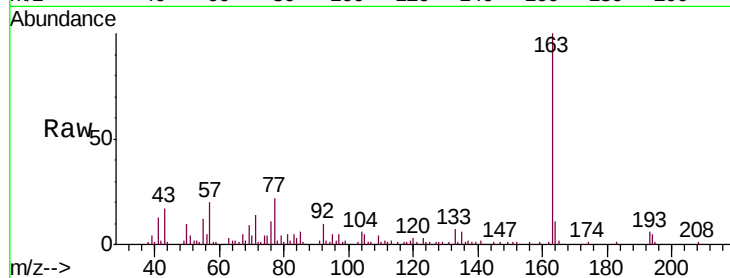




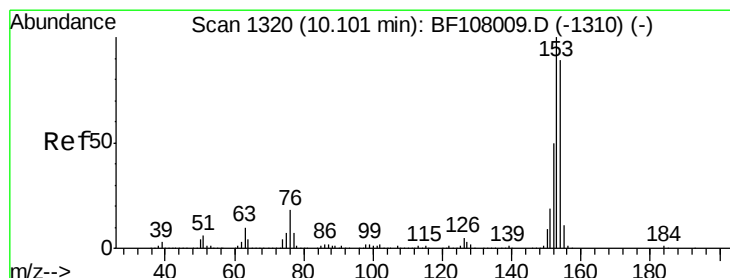
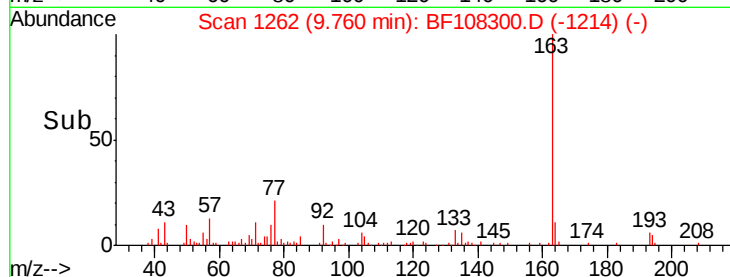
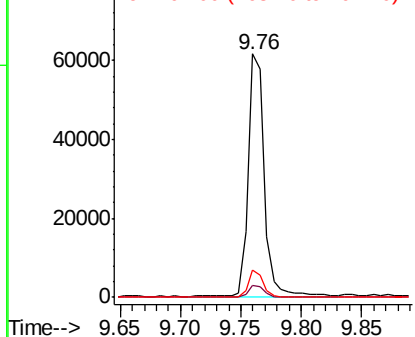
#49
Dimethylphthalate
Concen: 3.281 ng
RT: 9.76 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Instrument :
BNA_F
ClientSampleId :
72-11967

Tgt Ion:163 Resp: 59209
Ion Ratio Lower Upper
163 100
194 5.0 2.7 4.1#
164 11.2 8.2 12.2

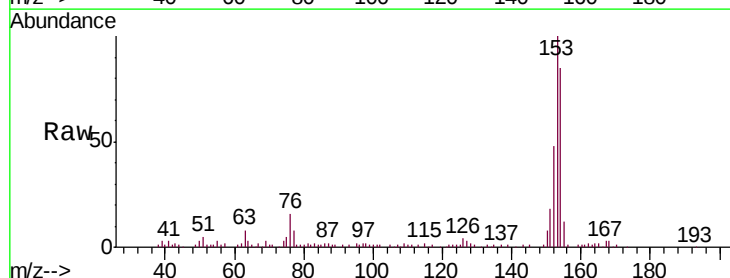


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

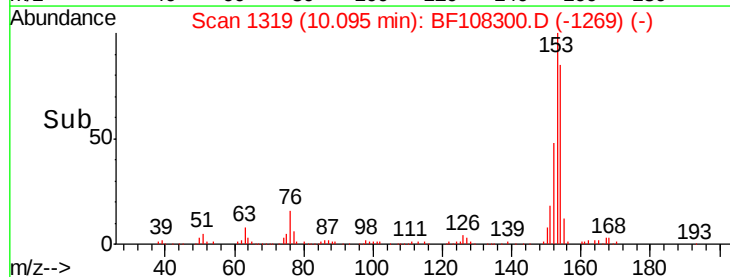
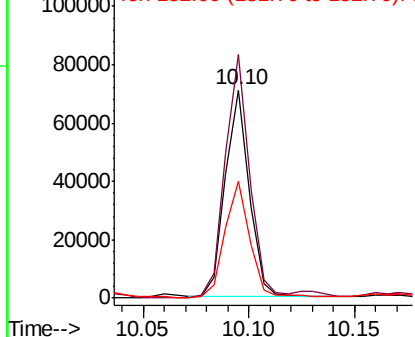


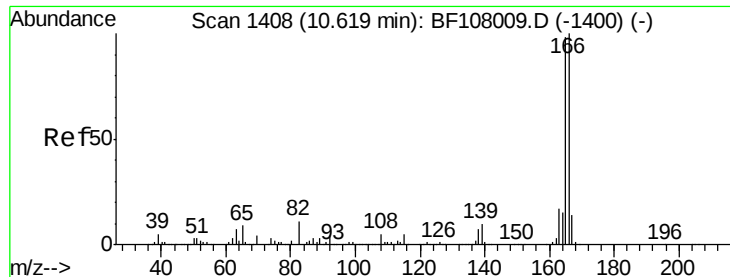
#51
Acenaphthene
Concen: 3.812 ng
RT: 10.10 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Tgt Ion:154 Resp: 55733
Ion Ratio Lower Upper
154 100
153 117.1 91.2 136.8
152 56.2 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

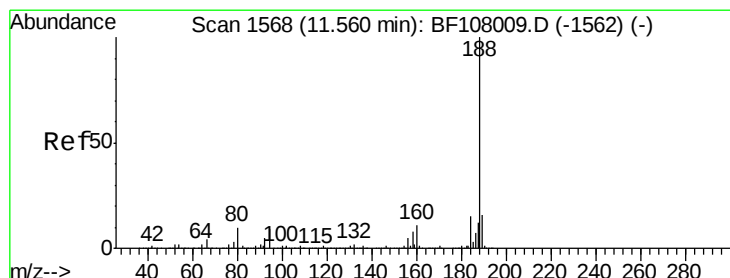
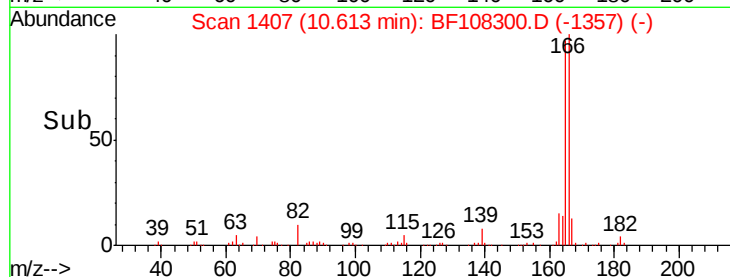
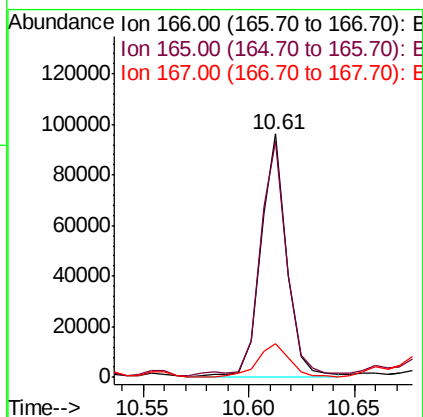
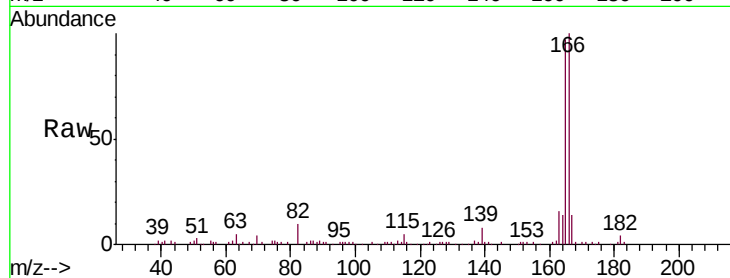




#57
 Fluorene
 Concen: 4.816 ng
 RT: 10.61 min Scan# 1407
 Delta R.T. -0.01 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

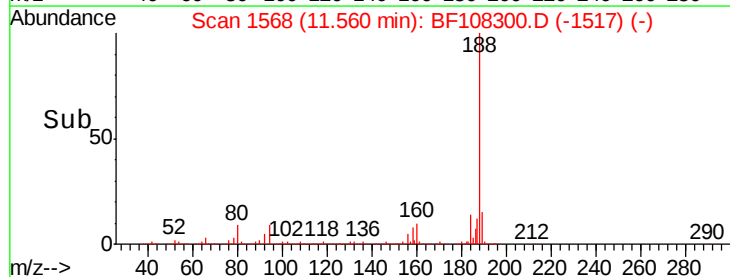
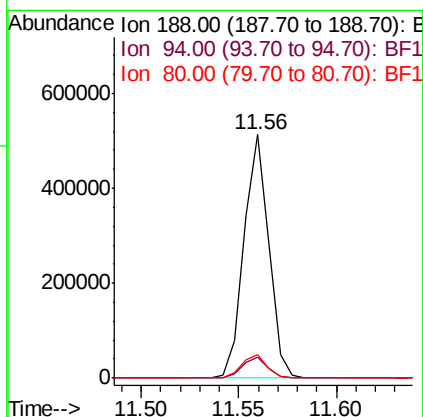
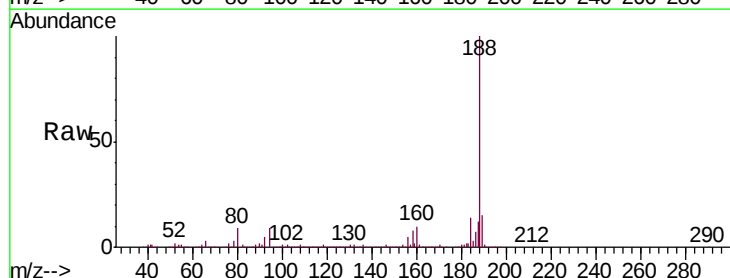
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Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.1	79.8	119.8
167	13.8	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.5	12.7
80	9.4	9.2	13.8

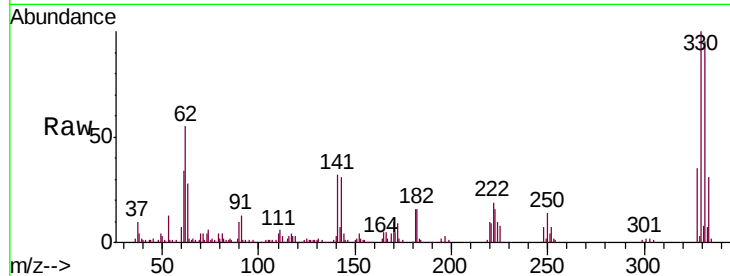




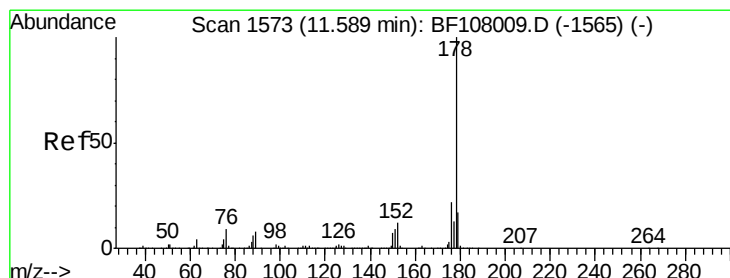
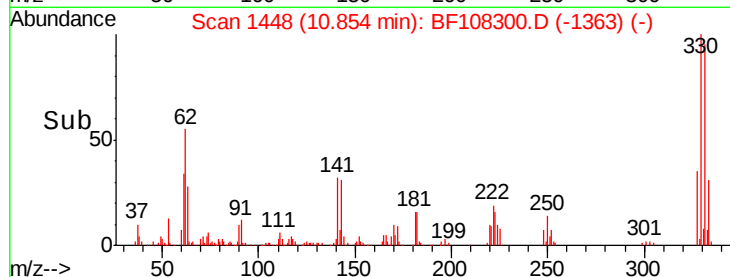
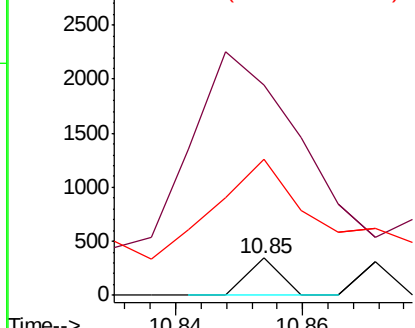
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.423 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. 0.20 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Instrument :
 BNA_F
 ClientSampleId :
 72-11967

Tgt Ion:198 Resp: 122
 Ion Ratio Lower Upper
 198 100
 51 562.4 37.7 77.7#
 105 365.0 36.3 76.3#

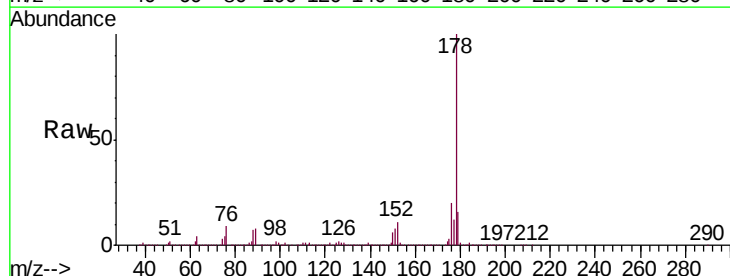


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

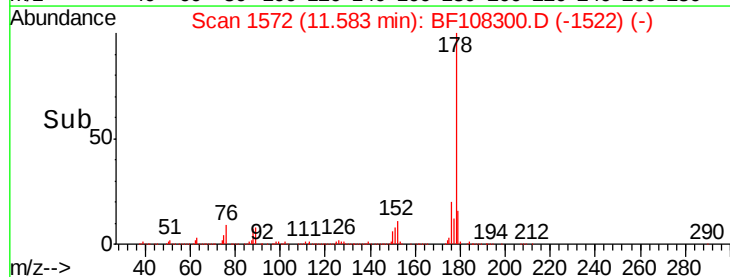
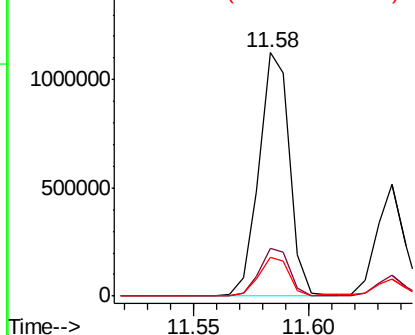


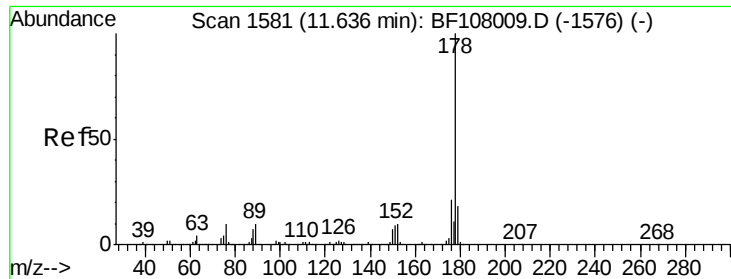
#70
 Phenanthrene
 Concen: 48.675 ng
 RT: 11.58 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Tgt Ion:178 Resp: 1036843
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.8 23.8
 179 16.0 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

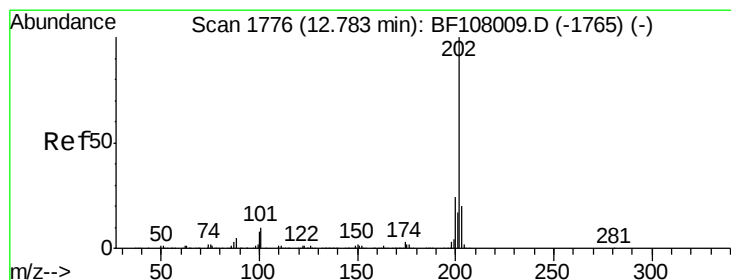
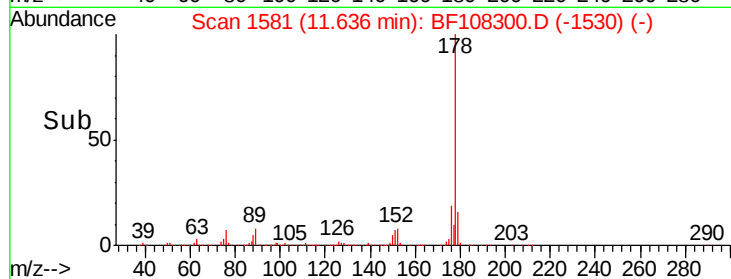
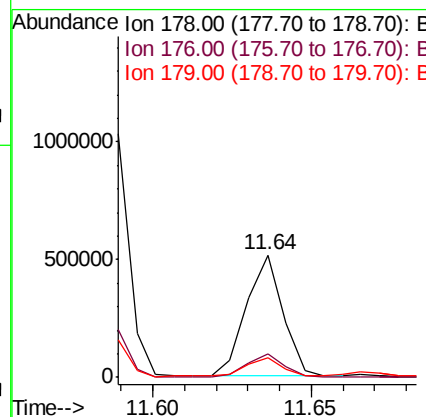
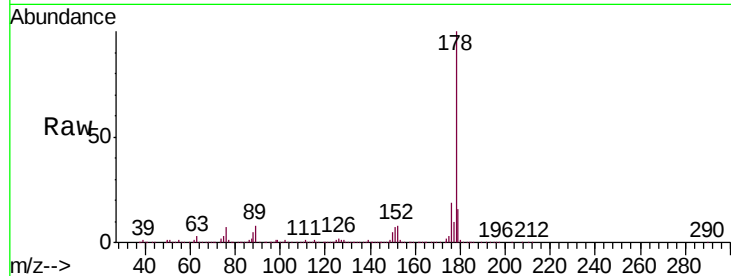




#71
 Anthracene
 Concen: 18.904 ng
 RT: 11.64 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

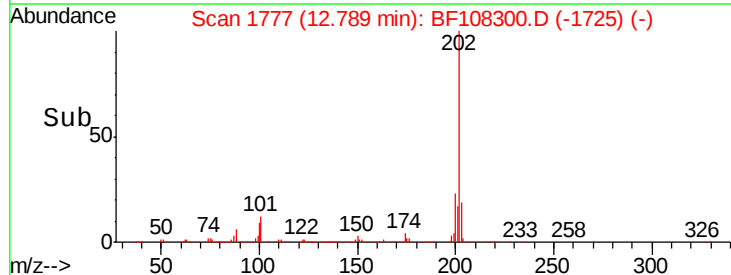
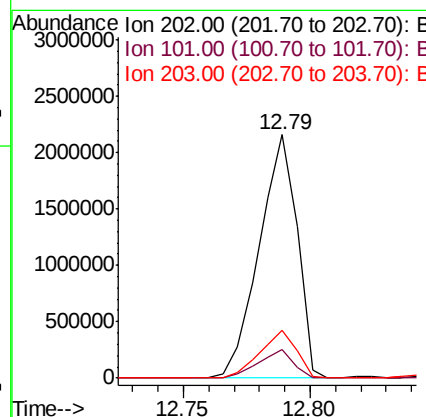
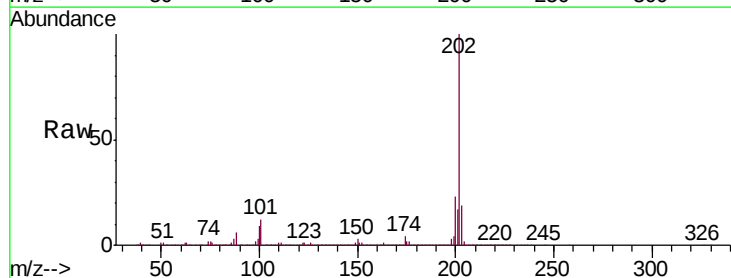
Instrument :
 BNA_F
 ClientSampleId :
 72-11967

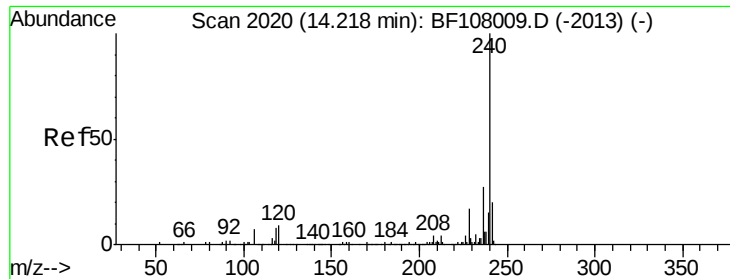
Tgt Ion:178 Resp: 412714
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.4 23.2
 179 15.6 12.6 19.0



#74
 Fluoranthene
 Concen: 96.406 ng
 RT: 12.79 min Scan# 1777
 Delta R.T. 0.01 min
 Lab File: BF108300.D
 Acq: 20 Aug 2018 19:51

Tgt Ion:202 Resp: 2241251
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 34.1
 203 19.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

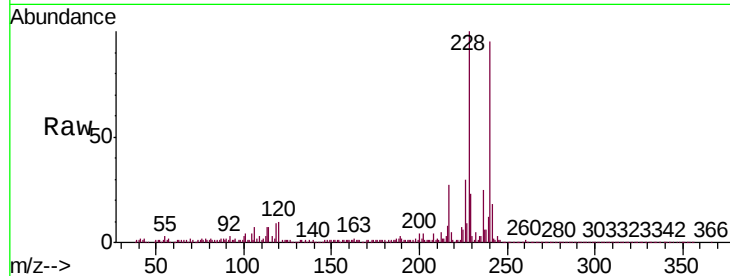
Tgt Ion:240 Resp: 316646

Ion Ratio Lower Upper

240 100

120 10.8 9.5 14.3

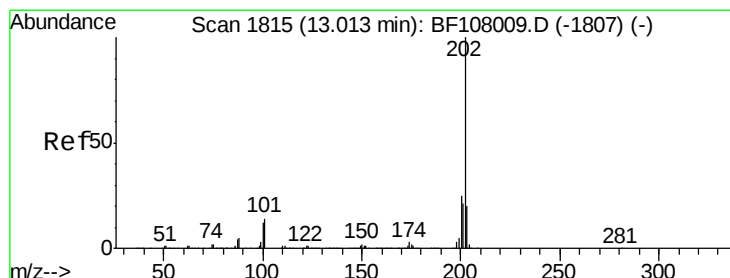
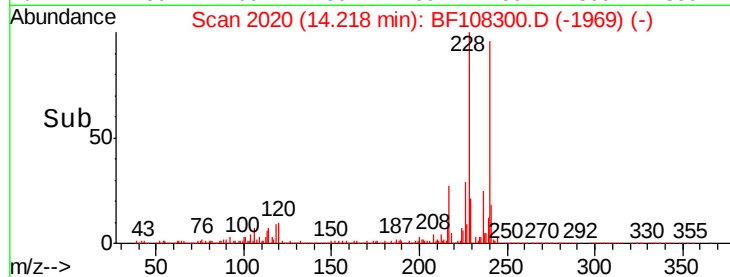
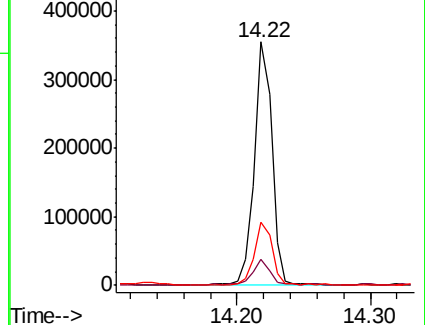
236 26.2 20.7 31.1



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

Pyrene

Concen: 105.325 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

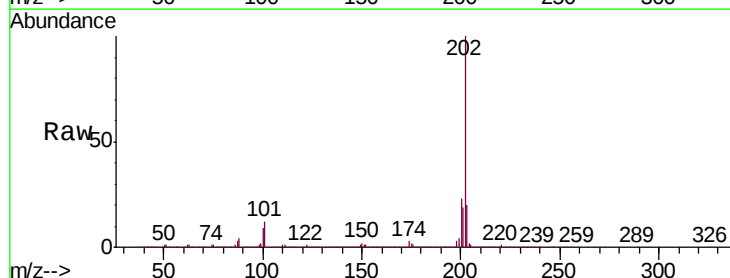
Tgt Ion:202 Resp: 2111457

Ion Ratio Lower Upper

202 100

200 23.4 17.4 26.2

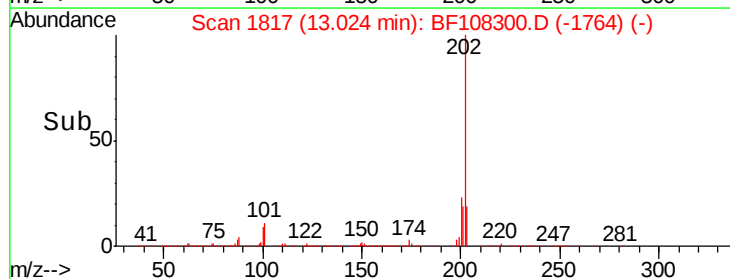
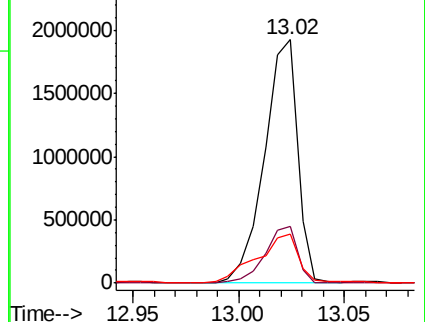
203 20.1 14.3 21.5

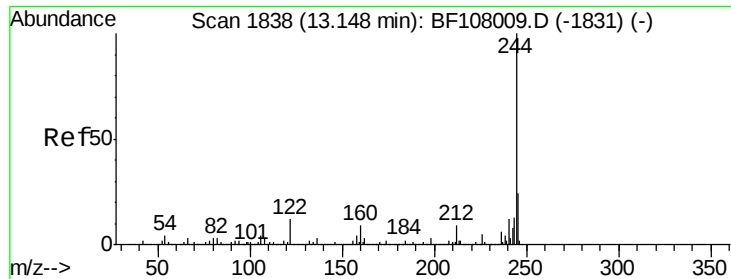


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 49.296 ng

RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

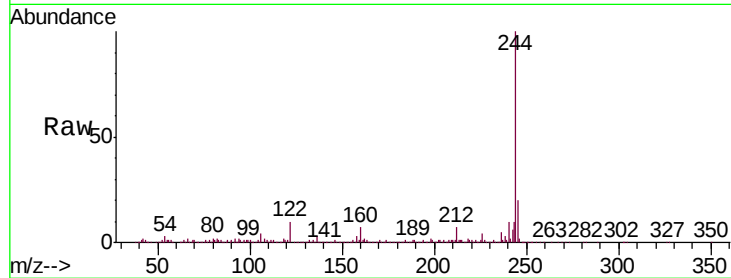
Tgt Ion:244 Resp: 613922

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

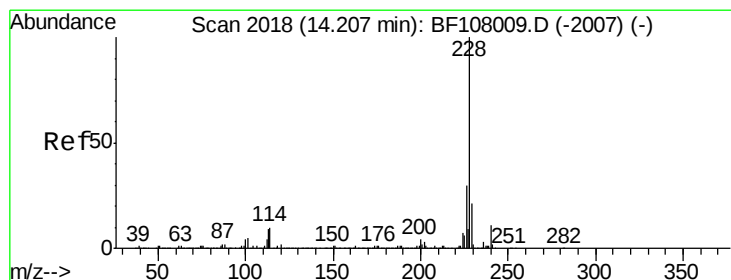
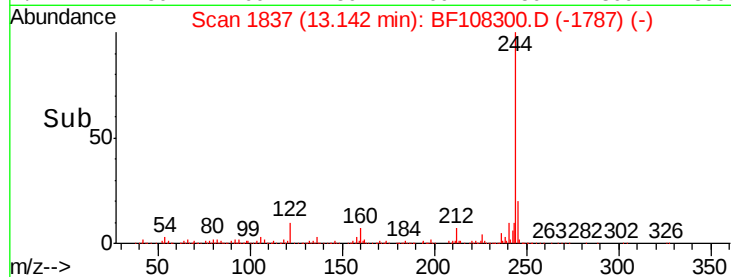
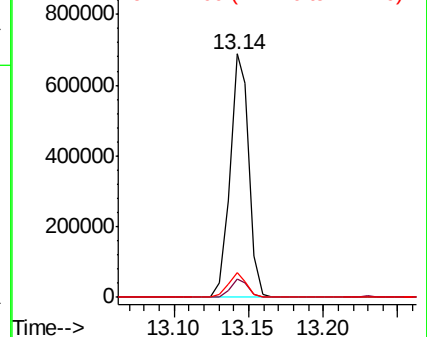
122 10.2 11.0 16.4#



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: 61.090 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

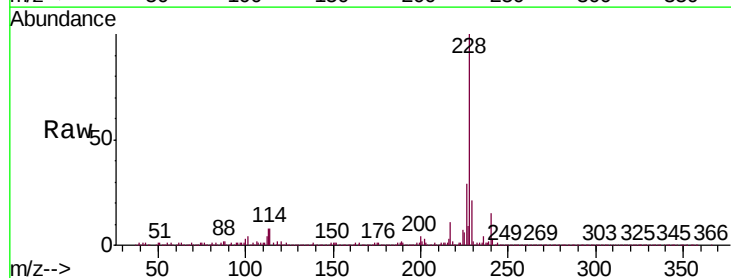
Tgt Ion:228 Resp: 1110148

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

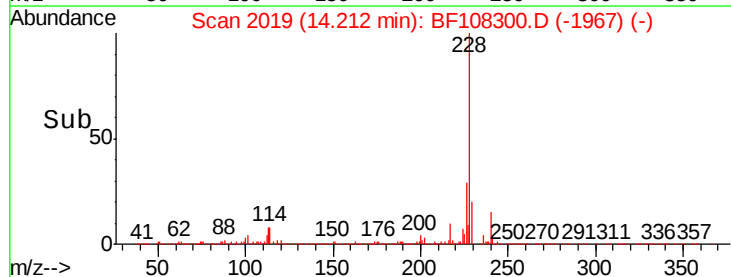
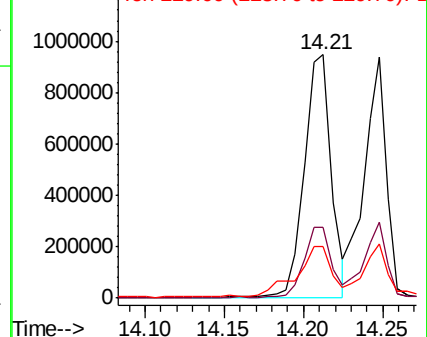
229 21.2 15.8 23.6

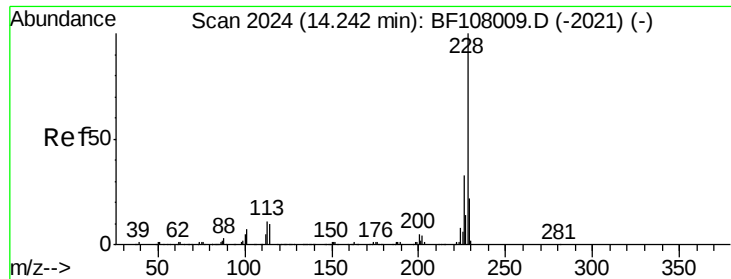


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 55.073 ng

RT: 14.25 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

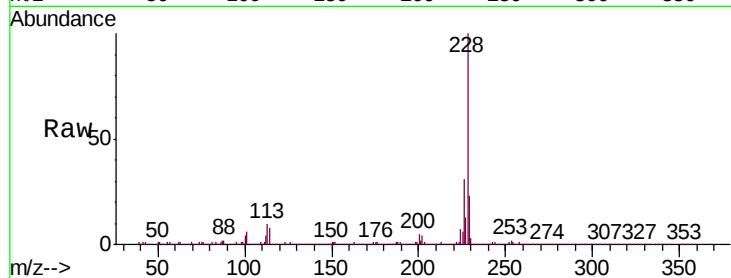
Tgt Ion:228 Resp: 917528

Ion Ratio Lower Upper

228 100

226 31.4 25.0 37.6

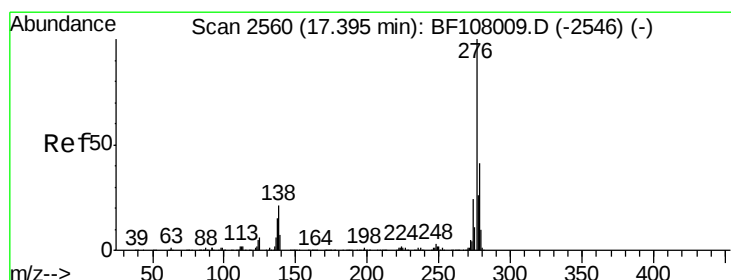
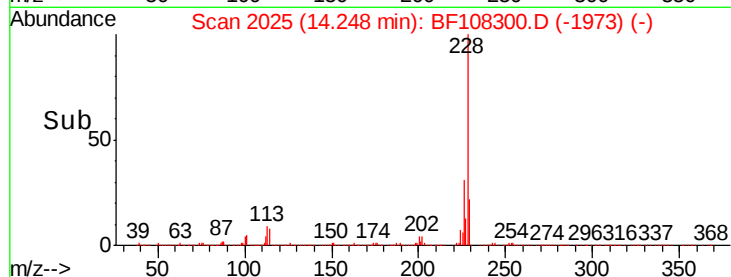
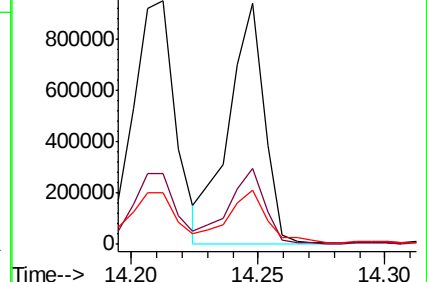
229 22.5 16.2 24.4



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: 27.582 ng

RT: 17.42 min Scan# 2564

Delta R.T. 0.02 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

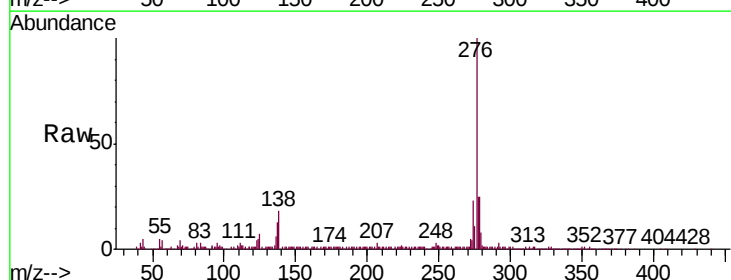
Tgt Ion:276 Resp: 398158

Ion Ratio Lower Upper

276 100

138 18.5 25.0 37.6#

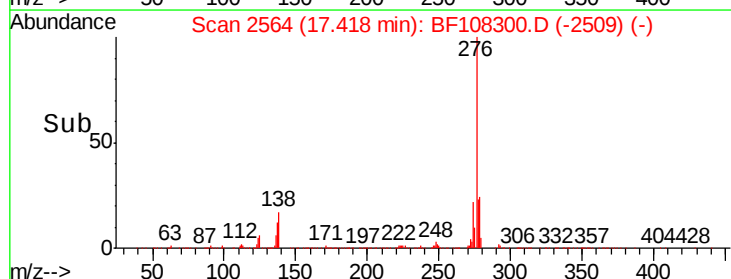
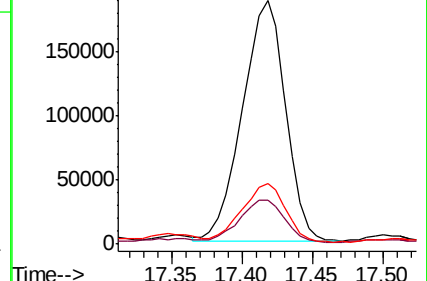
277 25.2 20.1 30.1

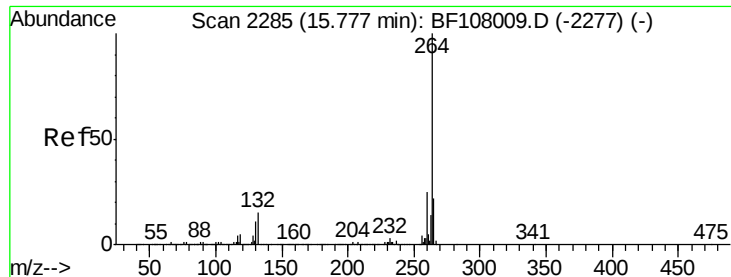


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

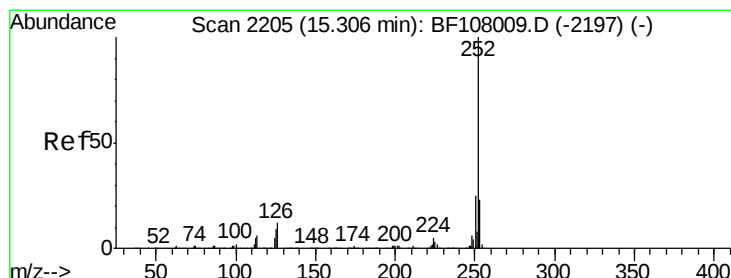
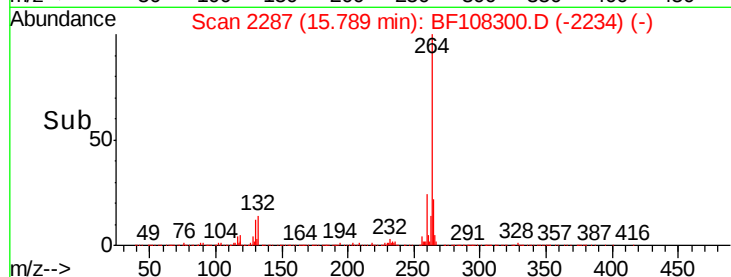
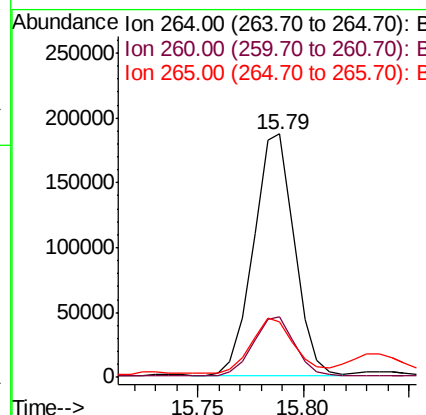
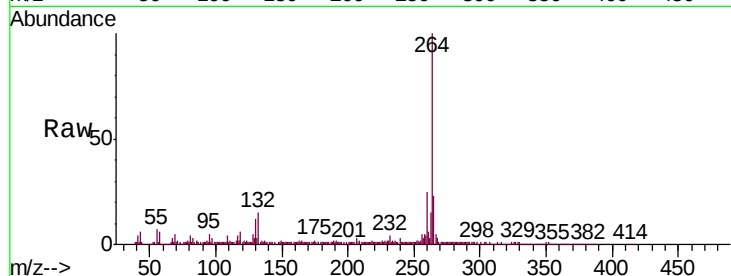




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

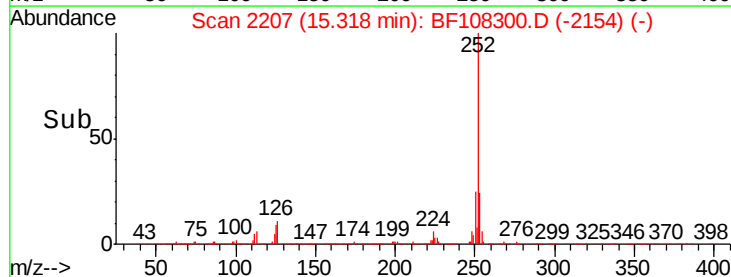
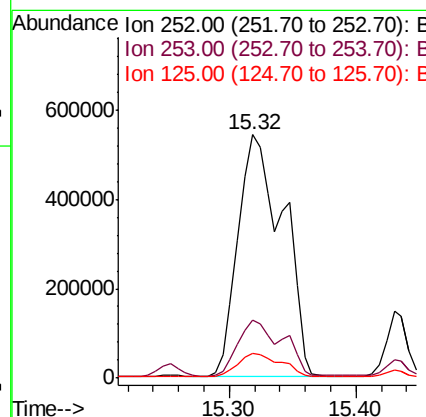
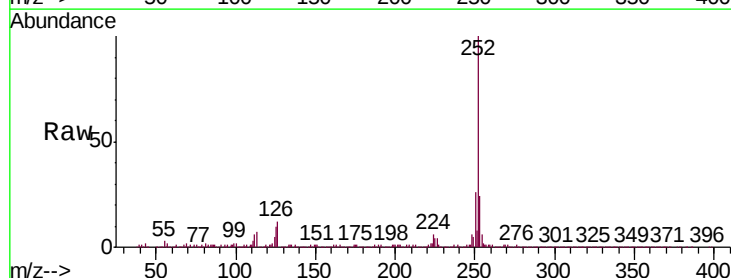
Instrument :
BNA_F
ClientSampleId :
72-11967

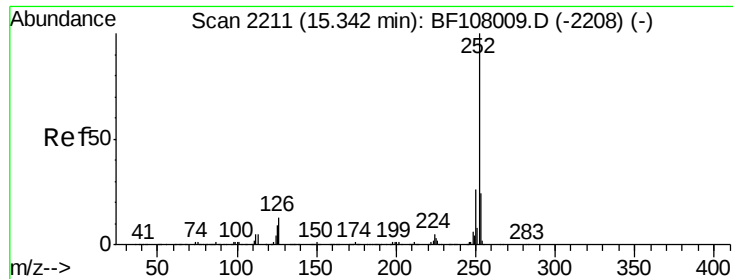
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	22.5	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 89.060 ng
RT: 15.32 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.0	25.6
125	10.0	9.0	13.6

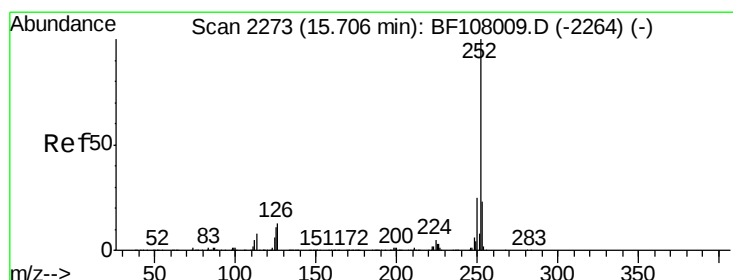
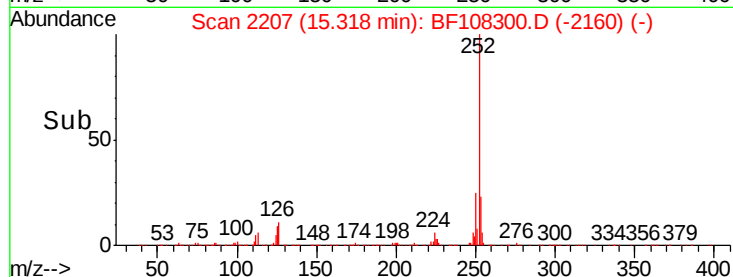
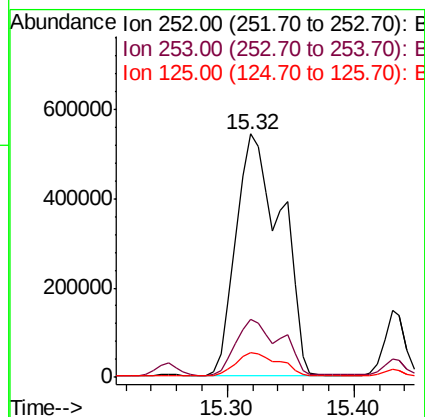
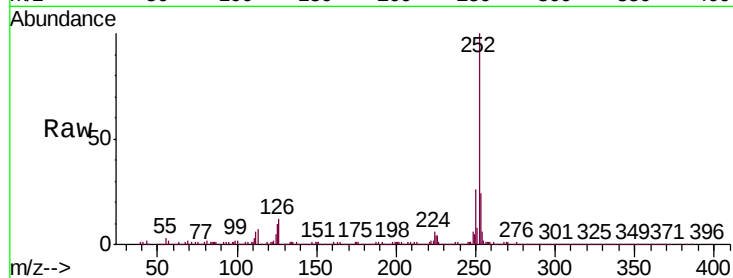




#88
Benzo(k)fluoranthene
Concen: 96.884 ng
RT: 15.32 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

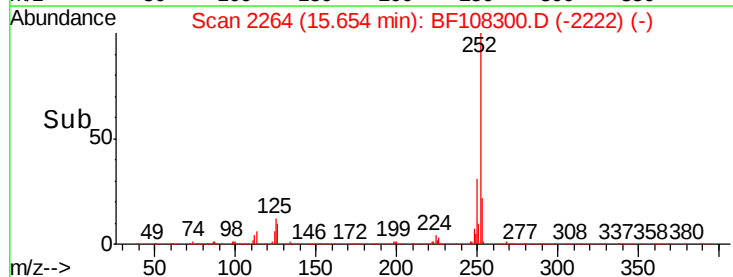
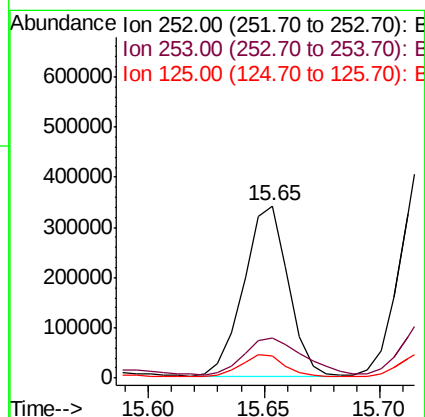
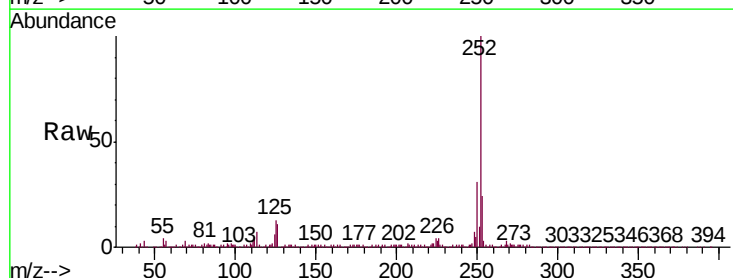
Instrument :
BNA_F
ClientSampleId :
72-11967

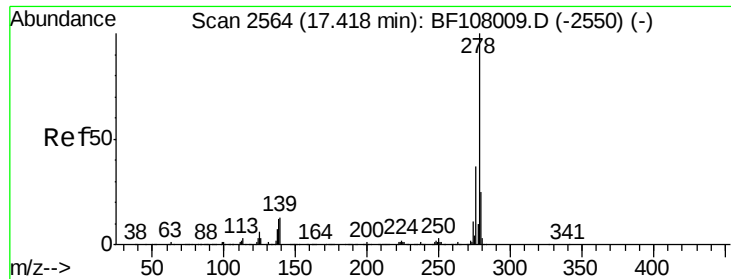
Tgt Ion:252 Resp: 1335886
Ion Ratio Lower Upper
252 100
253 24.1 17.9 26.9
125 10.0 10.2 15.2#



#89
Benzo(a)pyrene
Concen: 34.261 ng
RT: 15.65 min Scan# 2264
Delta R.T. -0.05 min
Lab File: BF108300.D
Acq: 20 Aug 2018 19:51

Tgt Ion:252 Resp: 460186
Ion Ratio Lower Upper
252 100
253 23.6 17.1 25.7
125 12.8 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 9.951 ng

RT: 17.42 min Scan# 2565

Delta R.T. 0.01 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

Instrument :

BNA_F

ClientSampleId :

72-11967

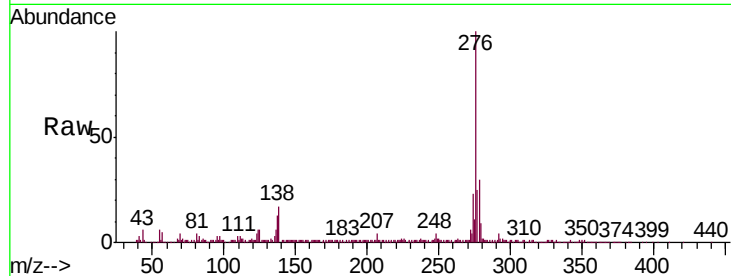
Tgt Ion:278 Resp: 110587

Ion Ratio Lower Upper

278 100

139 0.0 15.9 23.9#

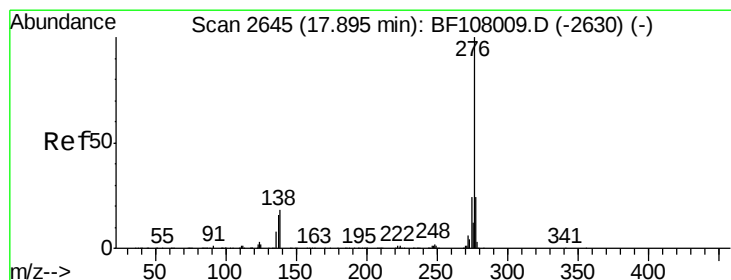
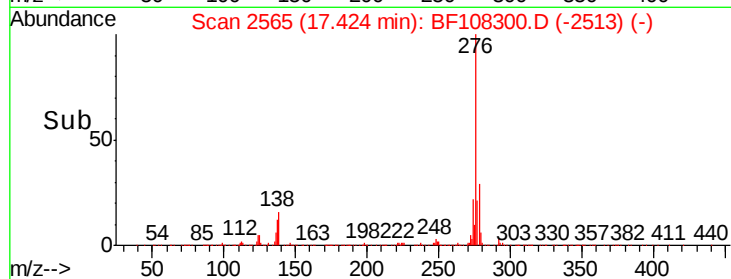
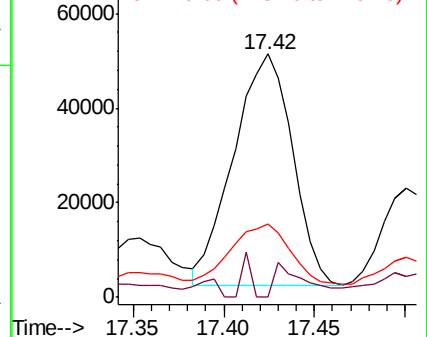
279 30.0 19.0 28.4#



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: 32.404 ng

RT: 17.92 min Scan# 2649

Delta R.T. 0.02 min

Lab File: BF108300.D

Acq: 20 Aug 2018 19:51

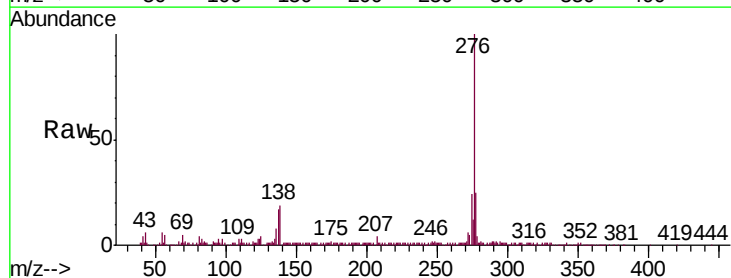
Tgt Ion:276 Resp: 354606

Ion Ratio Lower Upper

276 100

277 24.8 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

