

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102948.D
 Acq On : 13 Feb 2018 4:33
 Operator : SJ/JU
 Sample : J1519-03 20X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 06:14:46 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	168296	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	681450	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	271349	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	378803	20.00	ng	0.00
75) Chrysene-d12	14.05	240	301473	20.00	ng	0.00
86) Perylene-d12	15.54	264	271870	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	52965	4.78	ng	0.00
7) Phenol-d6	6.50	99	64043	4.80	ng	0.00
23) Nitrobenzene-d5	7.44	82	40928	4.17	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	6935	3.18	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	68290	4.18	ng	0.00
78) Terphenyl-d14	12.99	244	42712	3.35	ng	0.00

Target Compounds

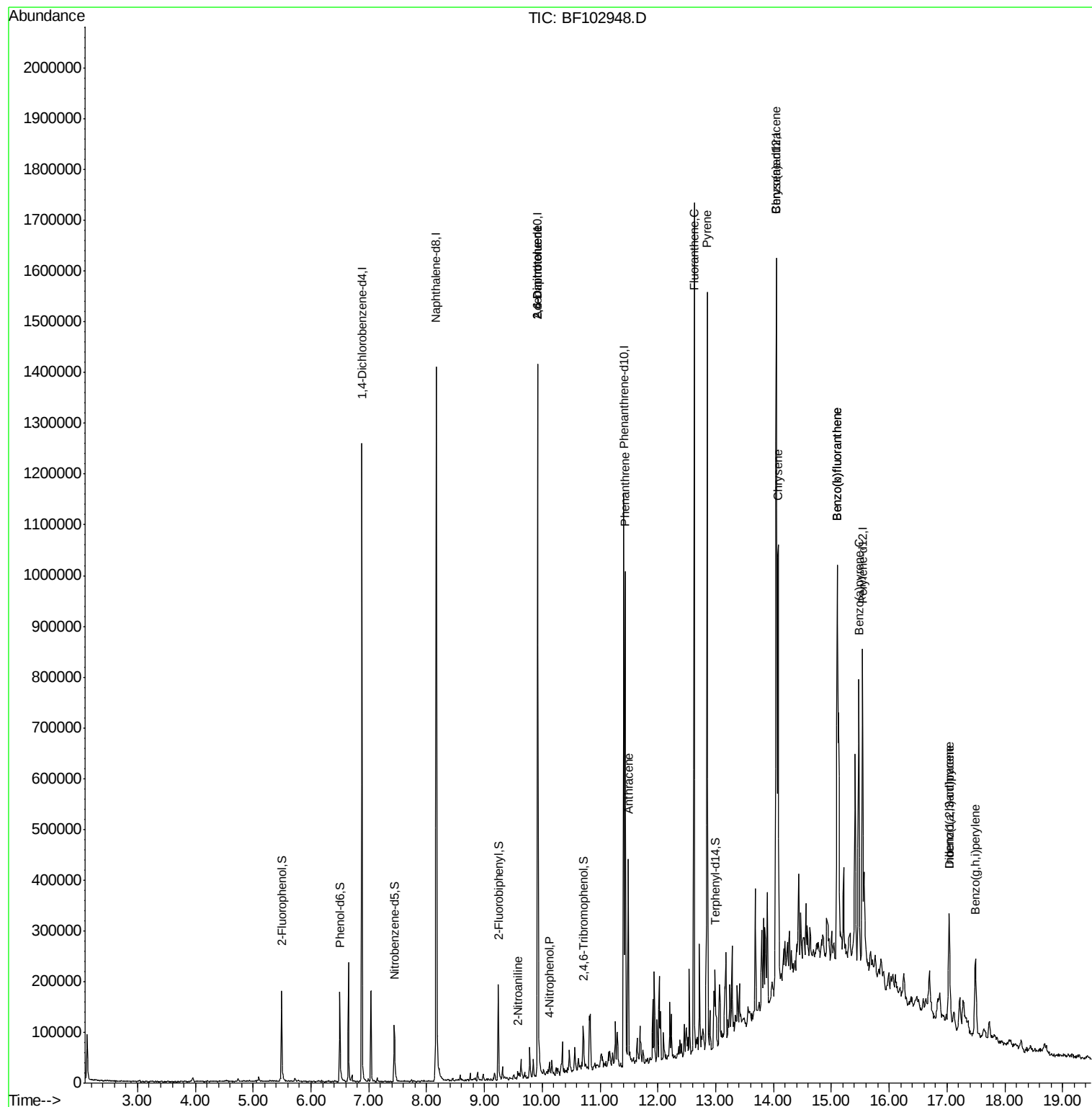
						Qvalue
24) Nitrobenzene	7.29	77	257	Below Cal	#	38
47) 2-Nitroaniline	9.57	65	123	3.49 ng	#	2
50) 2,6-Dinitrotoluene	9.92	165	34519	8.58 ng	#	26
55) 4-Nitrophenol	10.13	139	3647	4.87 ng	#	14
56) 2,4-Dinitrotoluene	9.92	165	34519	9.06 ng	#	24
70) Phenanthrene	11.43	178	312692	14.82 ng		99
71) Anthracene	11.49	178	152079	7.09 ng		98
74) Fluoranthene	12.63	202	657551	30.98 ng		98
77) Pyrene	12.86	202	565002	23.90 ng		99
80) Benzo(a)anthracene	14.04	228	377308	19.90 ng		93
82) Chrysene	14.08	228	340725	17.83 ng		97
85) Indeno(1,2,3-cd)pyrene	17.04	276	136894	8.64 ng		97
87) Benzo(b)fluoranthene	15.10	252	595984	33.81 ng	#	95
88) Benzo(k)fluoranthene	15.10	252	595984	35.39 ng		98
89) Benzo(a)pyrene	15.47	252	265613	16.74 ng		97
90) Dibenzo(a,h)anthracene	17.04	278	36756	2.85 ng	#	76
91) Benzo(g,h,i)perylene	17.49	276	113448	9.00 ng		98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 815

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

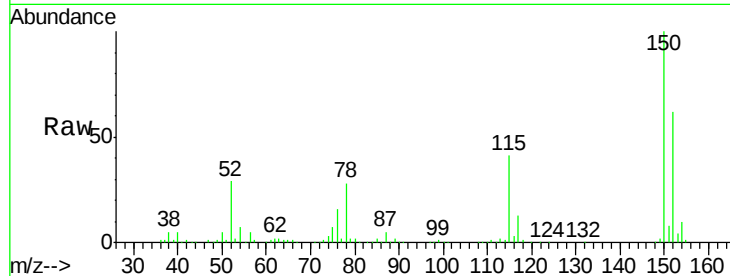
Tot Ion:152 Resp: 168296

Ion Ratio Lower Upper

152 100

150 161.5 124.6 186.8

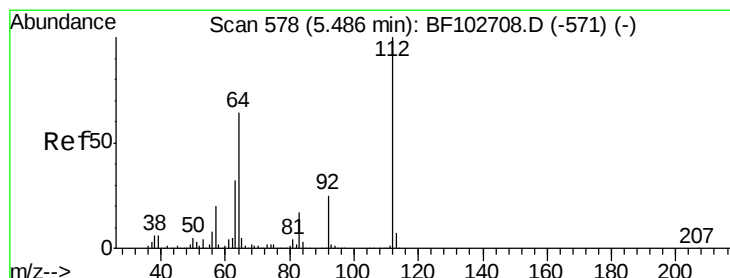
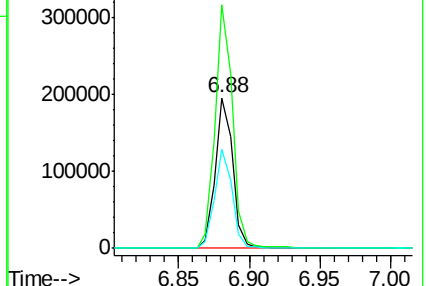
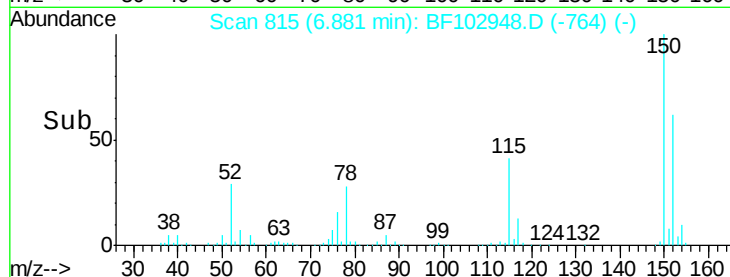
115 65.8 50.1 75.1



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: 4.78 ng

RT: 5.49 min Scan# 579

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

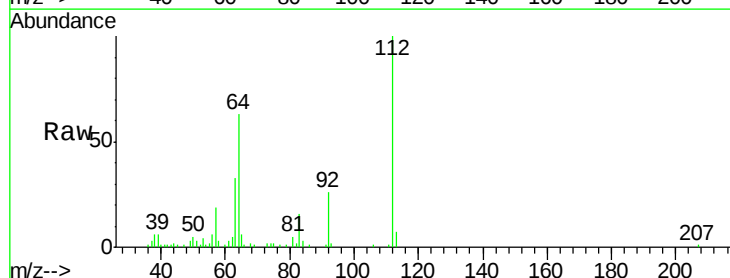
Tgt Ion:112 Resp: 52965

Ion Ratio Lower Upper

112 100

64 62.5 47.9 71.9

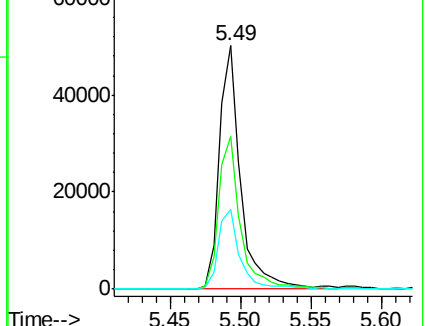
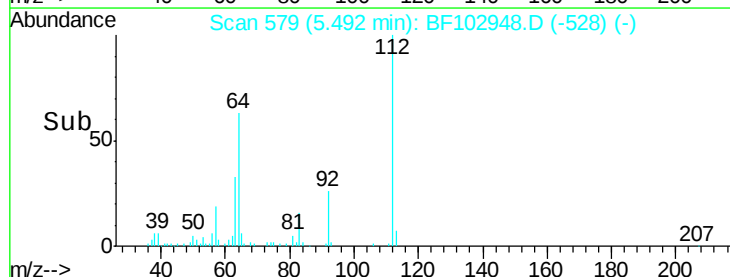
63 32.6 23.7 35.5



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: 4.80 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

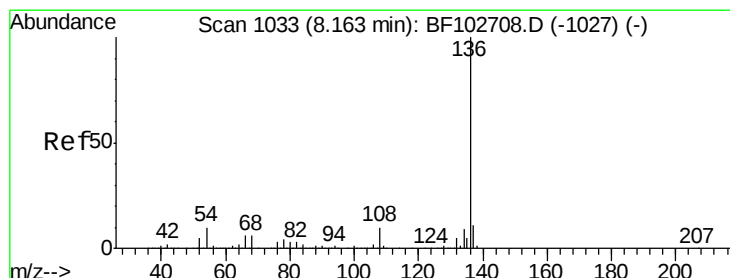
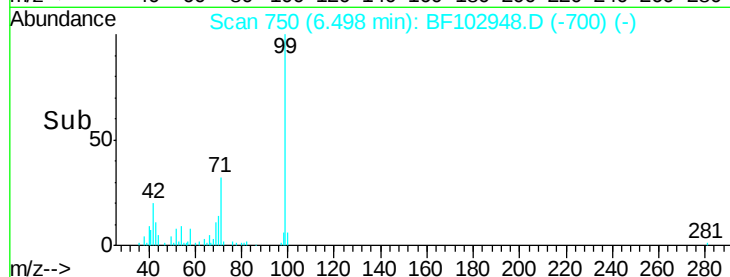
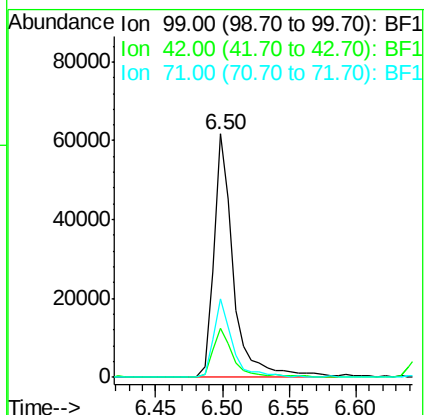
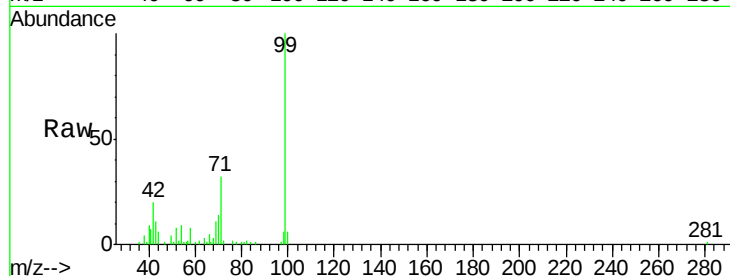
Tot Ion: 99 Resp: 64043

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

71 32.3 25.4 38.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Tgt Ion: 136 Resp: 681450

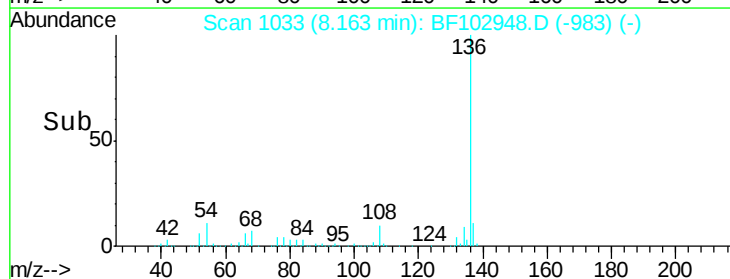
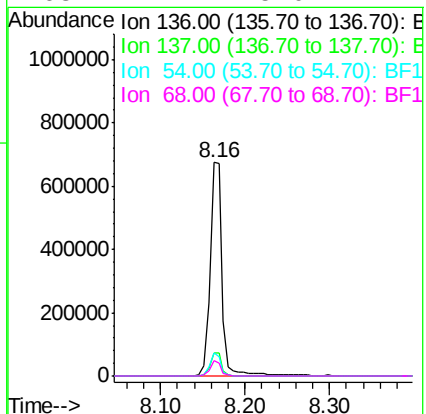
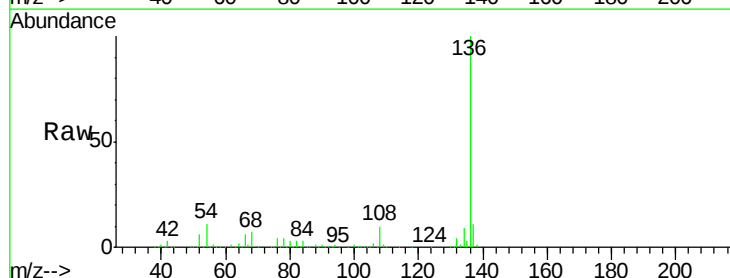
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 10.6 6.6 9.8#

68 7.1 5.0 7.4

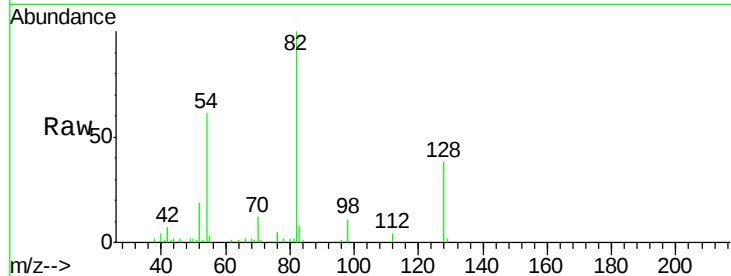




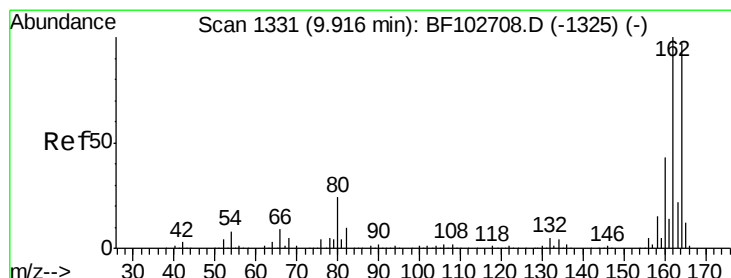
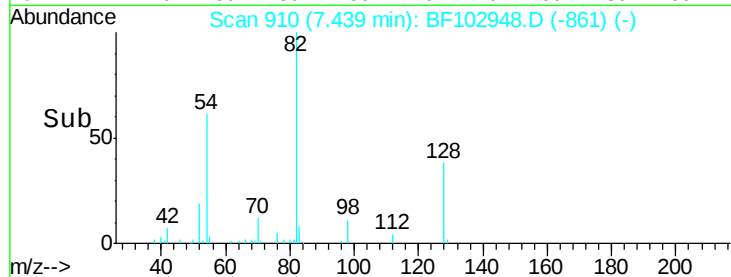
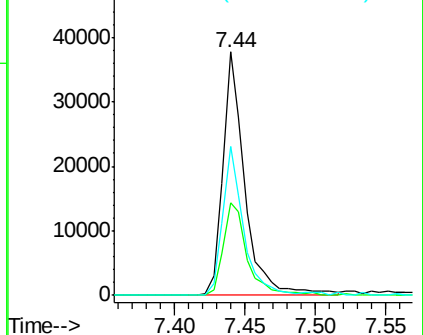
#23
Nitrobenzene-d5
Concen: 4.17 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	40928
Ion Ratio	100	Lower	Upper
128	38.2	36.1	54.1
54	60.9	41.4	62.2

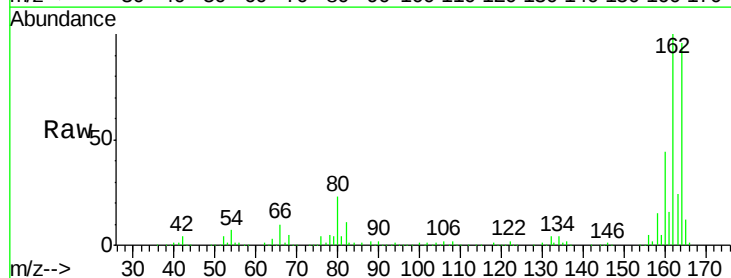


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

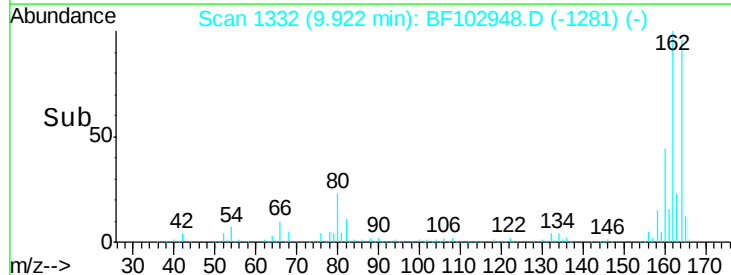
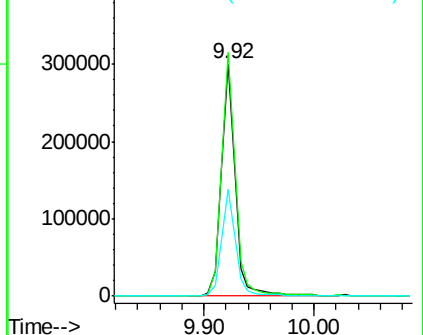


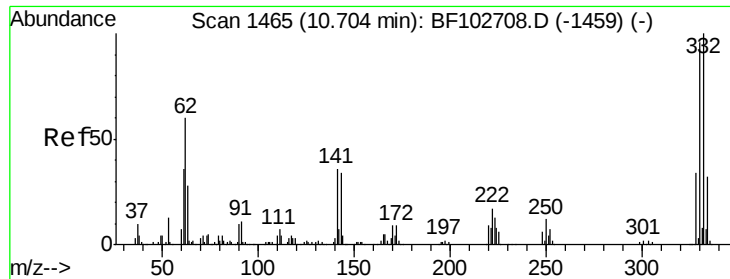
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Tgt Ion	164	Resp	271349
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	104.6	86.1	129.1
160	46.1	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

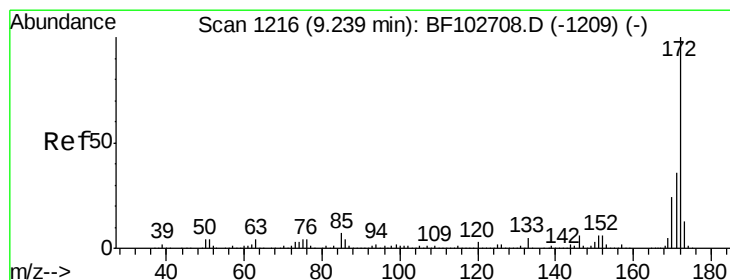
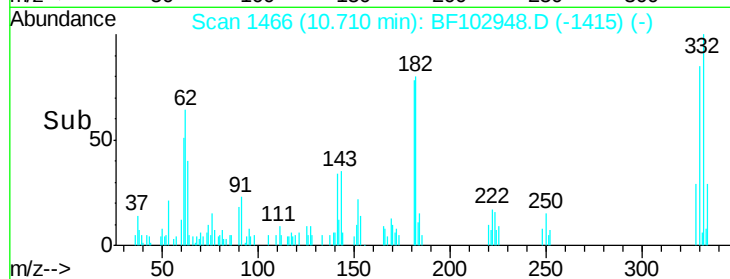
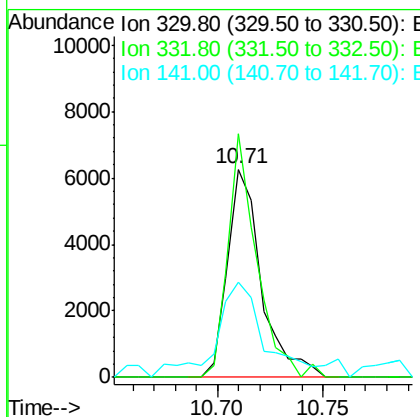
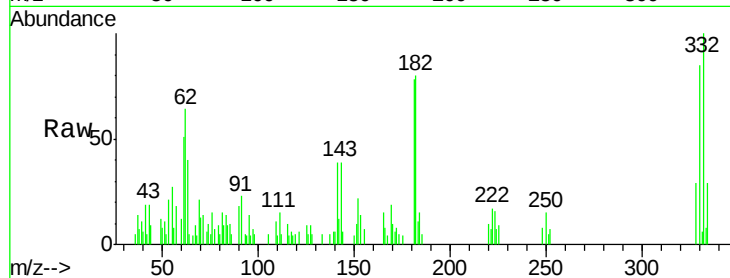




#41
 2,4,6-Tribromophenol
 Concen: 3.18 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: BF102948.D
 Acq: 13 Feb 2018 4:33

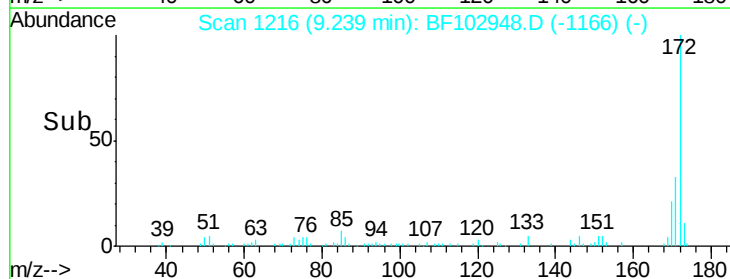
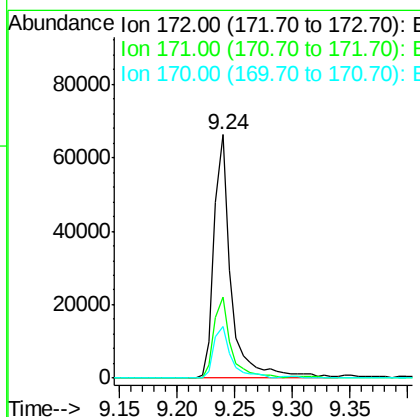
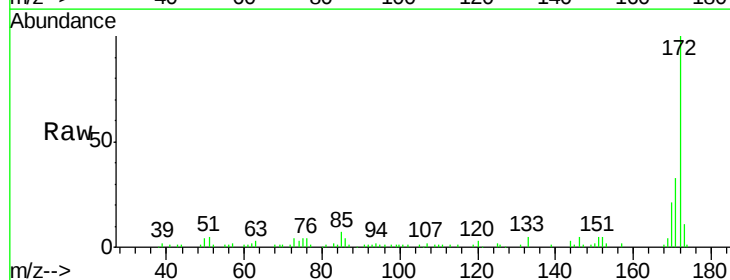
Instrument :
 BNA_F
 ClientSampleId :

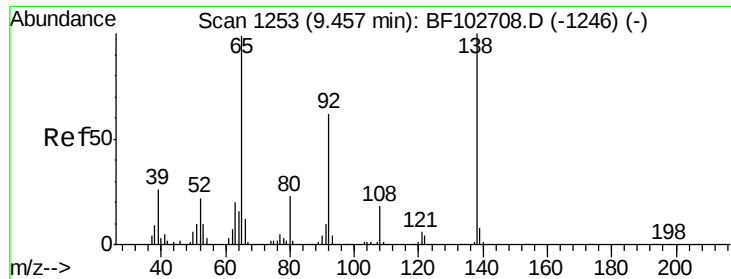
Tot Ion	Ratio	Lower	Upper
330	100		
332	99.7	77.0	115.6
141	69.7	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 4.18 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF102948.D
 Acq: 13 Feb 2018 4:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.1	29.7	44.5
170	21.2	19.6	29.4

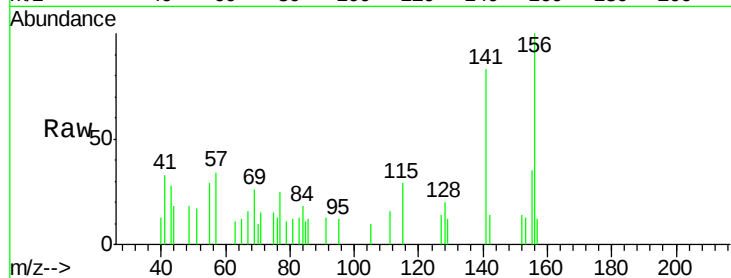




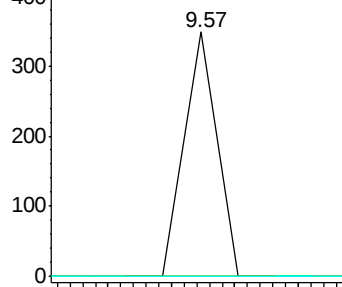
#47
2-Nitroaniline
Concen: 3.49 ng
RT: 9.57 min Scan# 1273
Delta R.T. 0.11 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Instrument :
BNA_F
ClientSampleId :

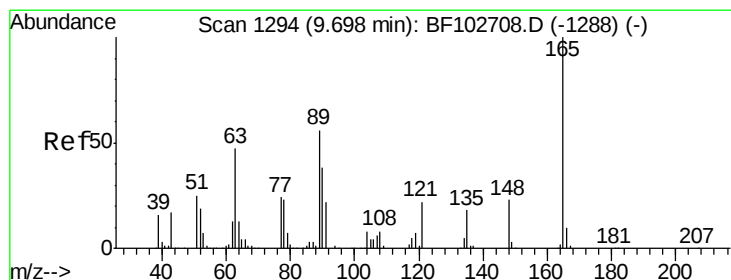
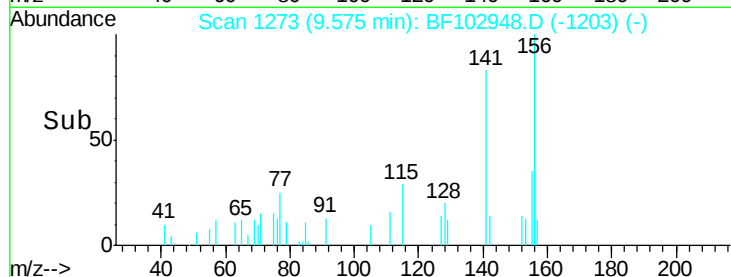
Tot Ion	Ratio	Lower	Upper
65	100		
92	0.0	55.8	83.6#
138	0.0	91.2	136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

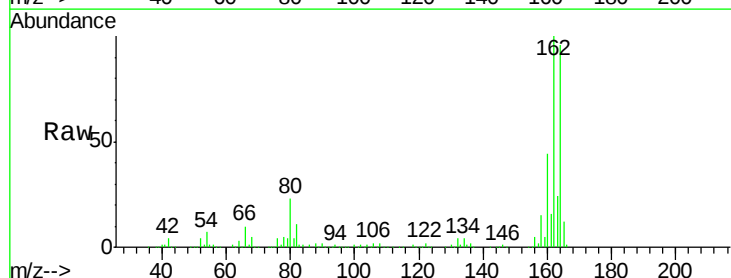


Time-->

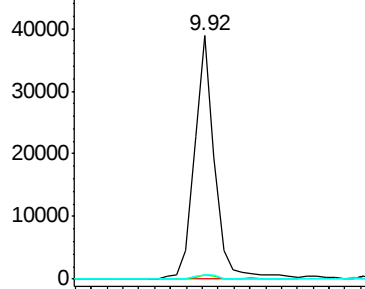


#50
2,6-Dinitrotoluene
Concen: 8.58 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.22 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

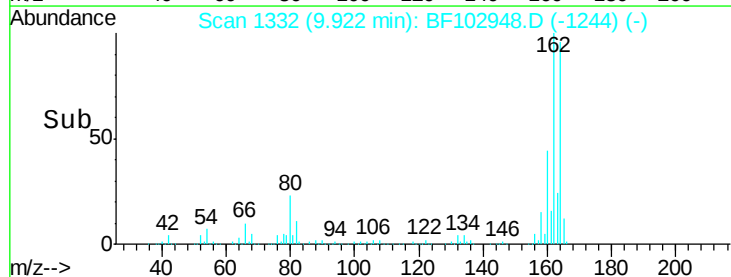
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	44.7	67.1#
89	1.7	44.0	66.0#

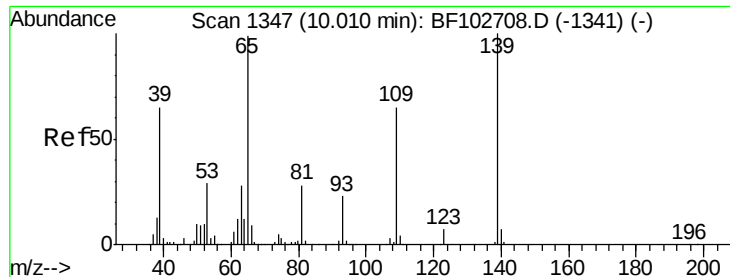


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1



Time-->





#55

4-Nitrophenol

Concen: 4.87 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.11 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

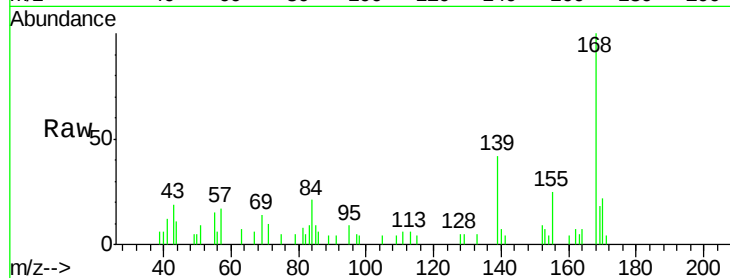
Tot Ion:139 Resp: 3647

Ion Ratio Lower Upper

139 100

109 10.1 48.4 88.4#

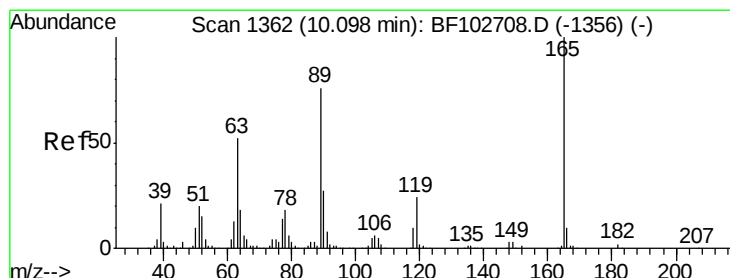
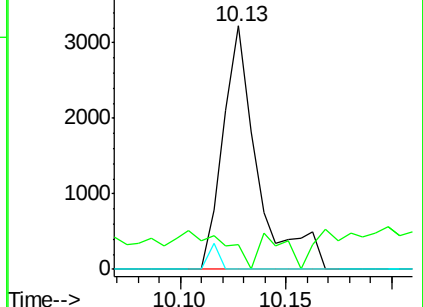
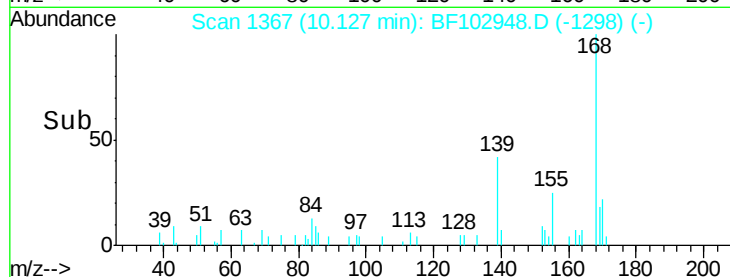
65 0.0 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#56

2,4-Dinitrotoluene

Concen: 9.06 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.18 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Tgt Ion:165 Resp: 34519

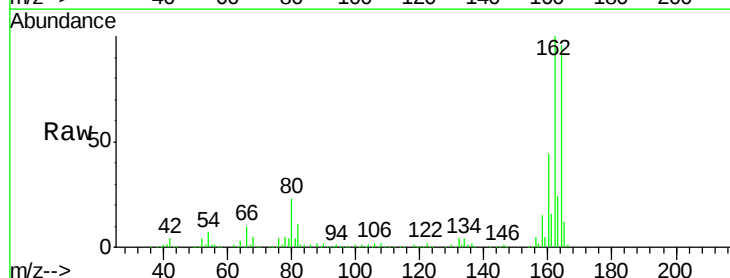
Ion Ratio Lower Upper

165 100

63 1.8 36.4 54.6#

89 1.7 57.8 86.6#

182 0.0 1.6 2.4#

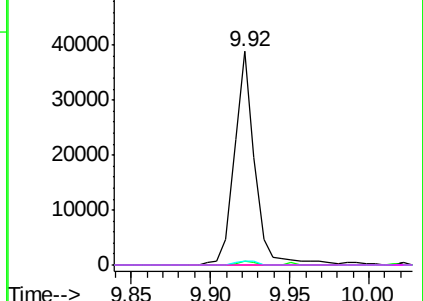
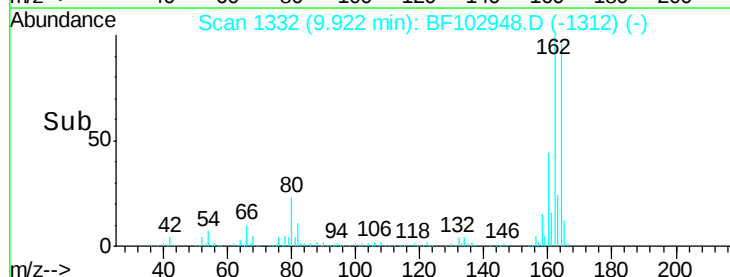


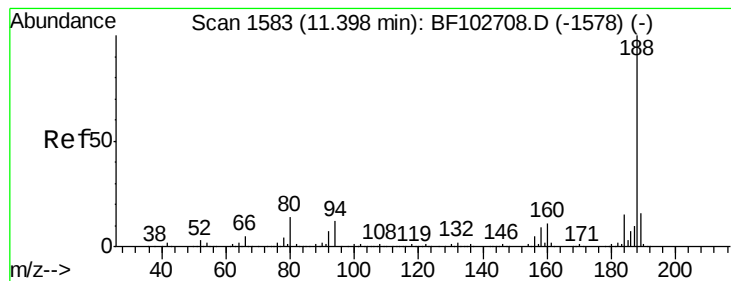
Abundance Ion 165.00 (164.70 to 165.70): E

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: 20.00 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

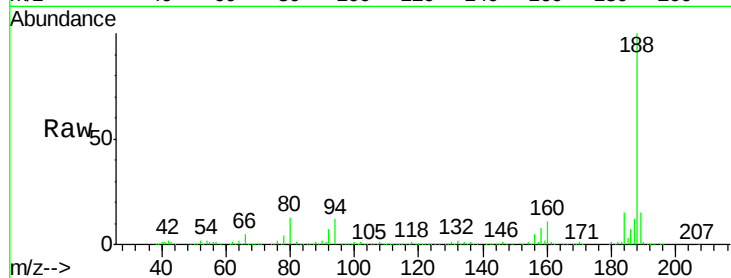
Tot Ion:188 Resp: 378803

Ion Ratio Lower Upper

188 100

94 12.5 8.5 12.7

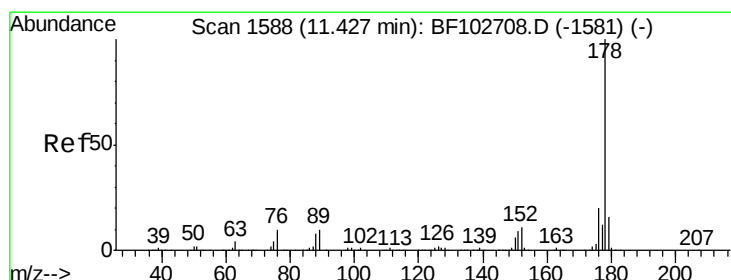
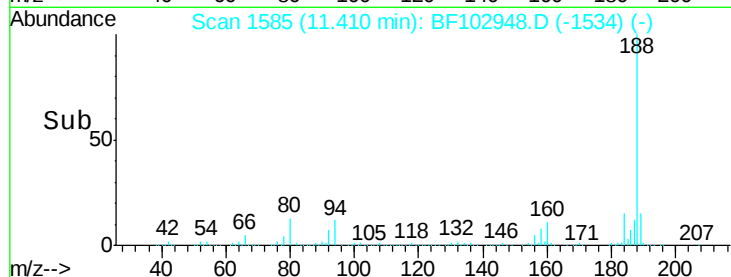
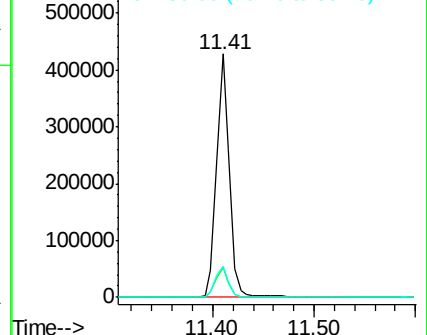
80 13.0 9.2 13.8



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: 14.82 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

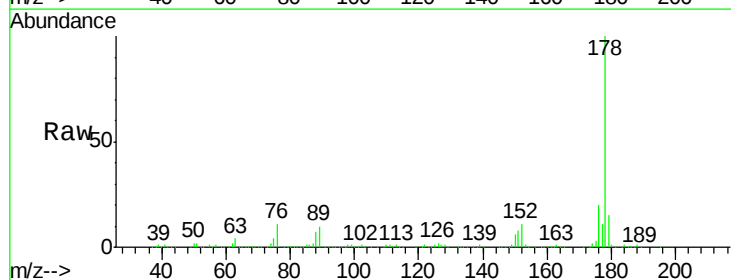
Tgt Ion:178 Resp: 312692

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

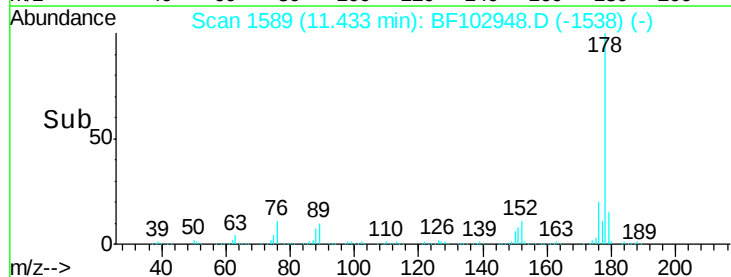
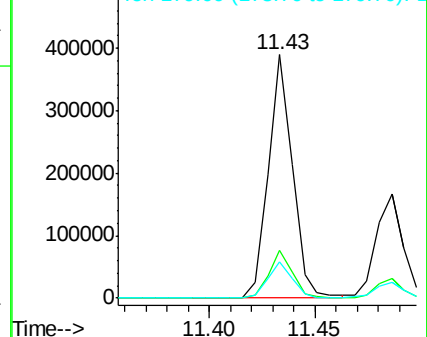
179 15.0 13.0 19.6

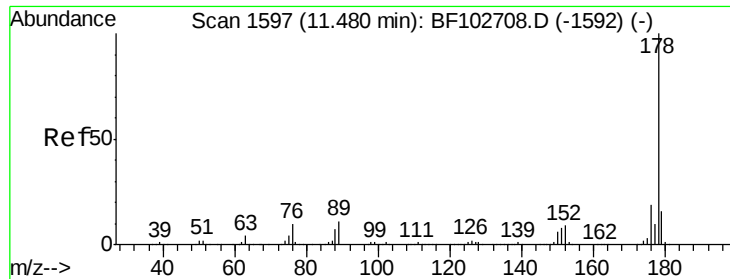


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 7.09 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampled :

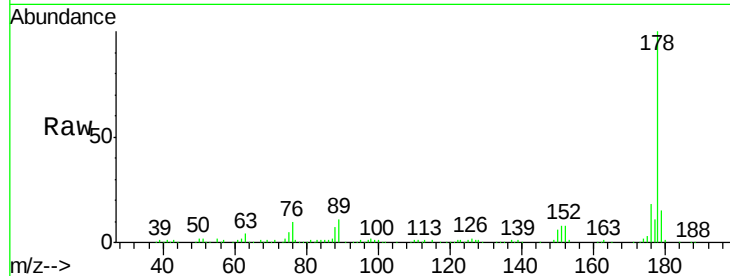
Tot Ion:178 Resp: 152079

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

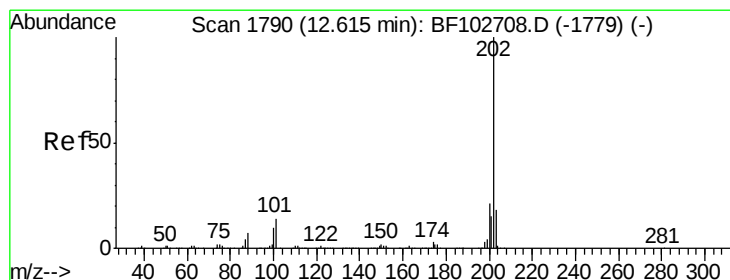
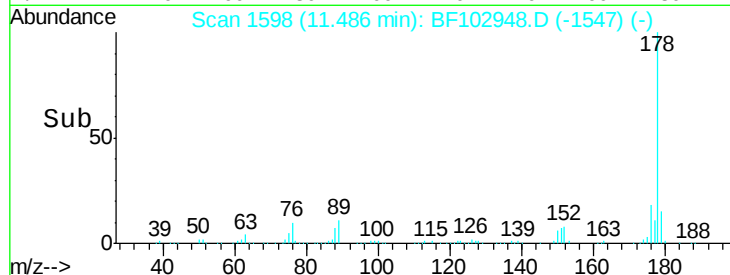
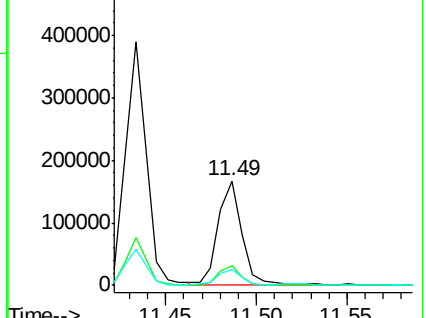
179 14.9 12.6 19.0



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: 30.98 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

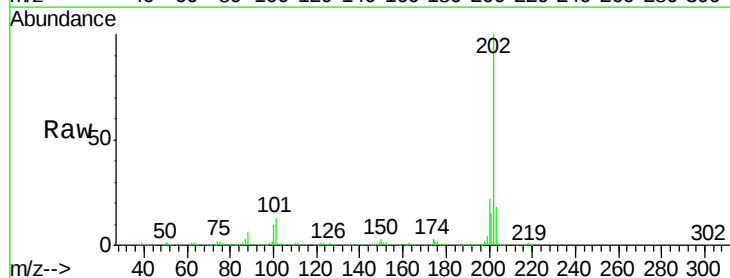
Tgt Ion:202 Resp: 657551

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

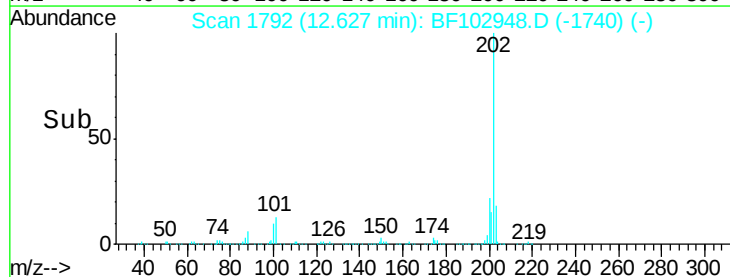
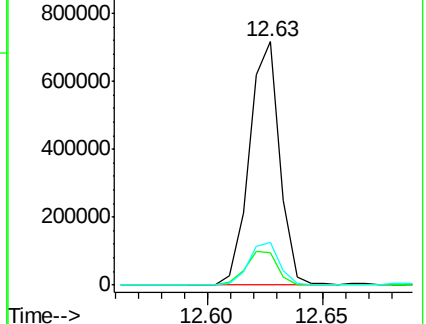
203 17.5 0.0 38.1

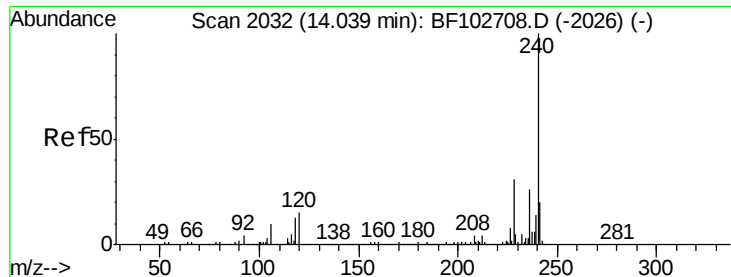


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

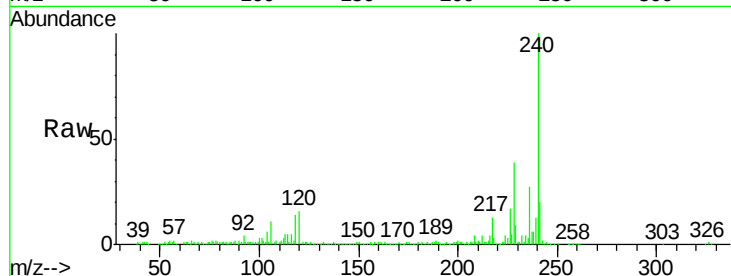
Tot Ion:240 Resp: 301473

Ion Ratio Lower Upper

240 100

120 16.0 9.5 14.3#

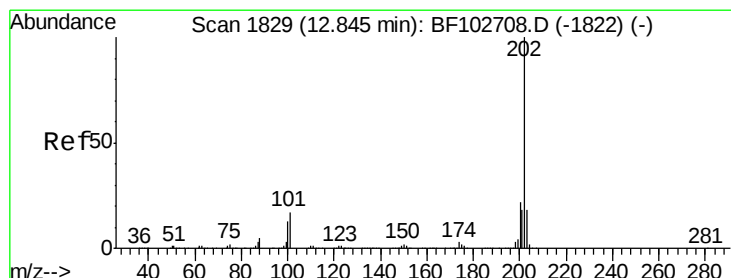
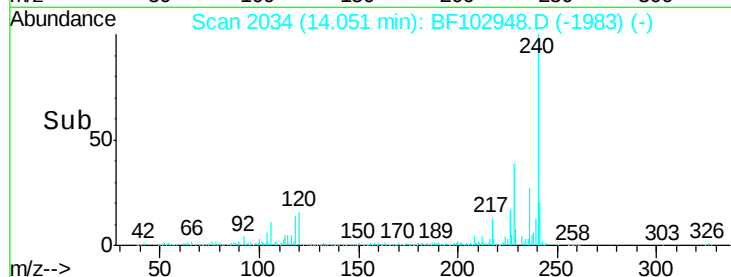
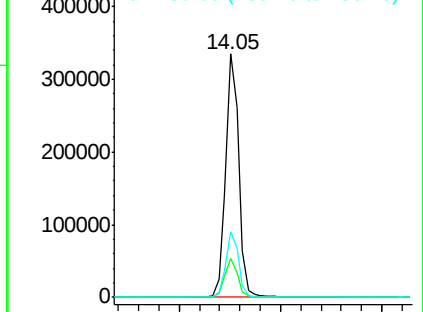
236 27.0 20.7 31.1



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: 23.90 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

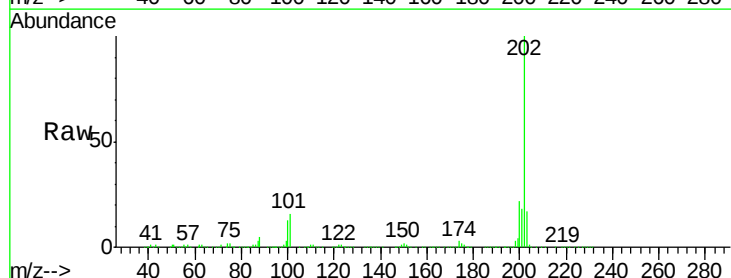
Tgt Ion:202 Resp: 565002

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

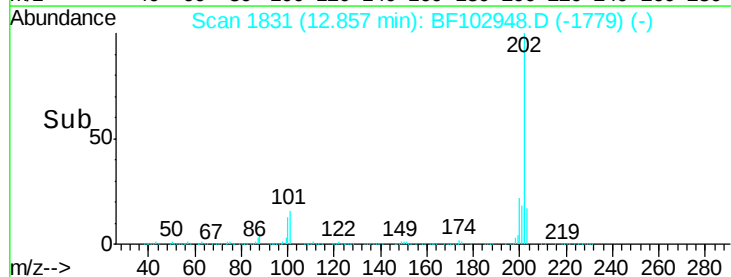
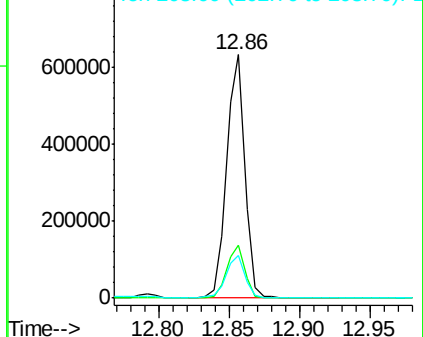
203 17.4 14.3 21.5

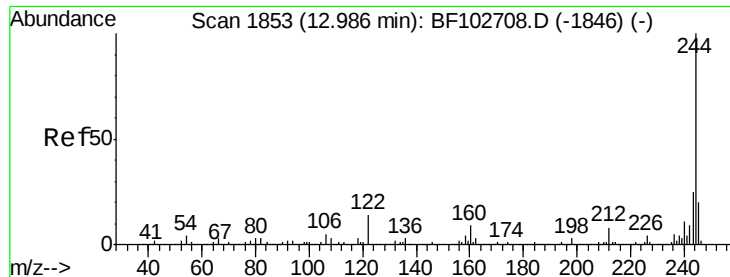


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

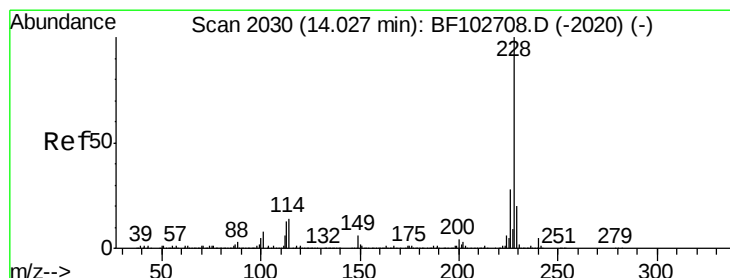
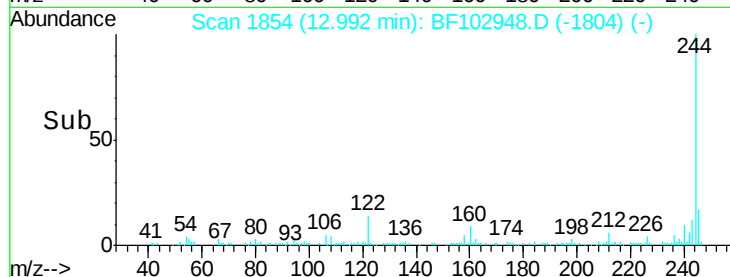
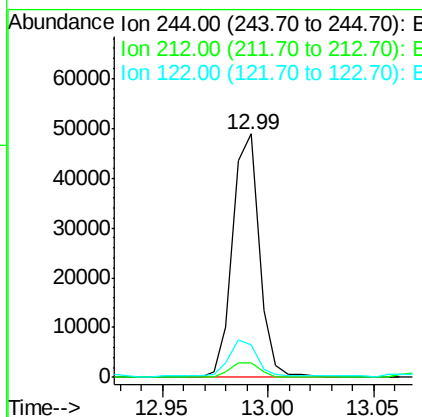
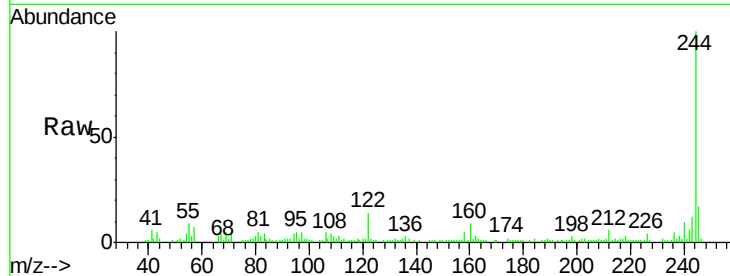




#78
 Terphenyl-d14
 Concen: 3.35 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF102948.D
 Acq: 13 Feb 2018 4:33

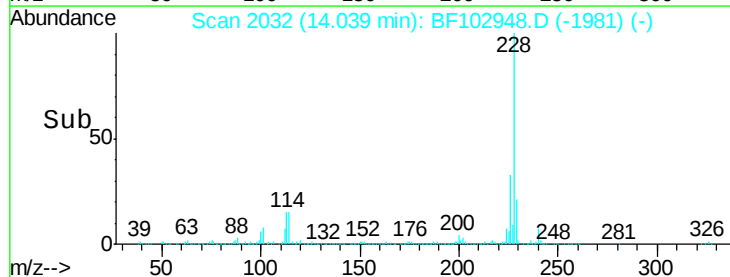
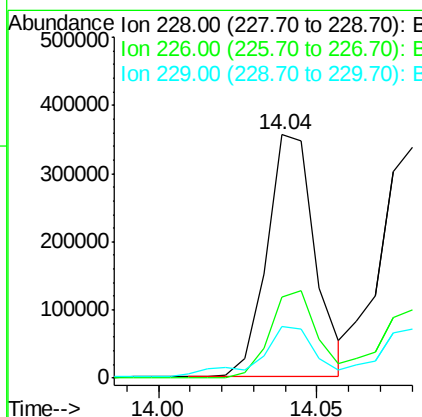
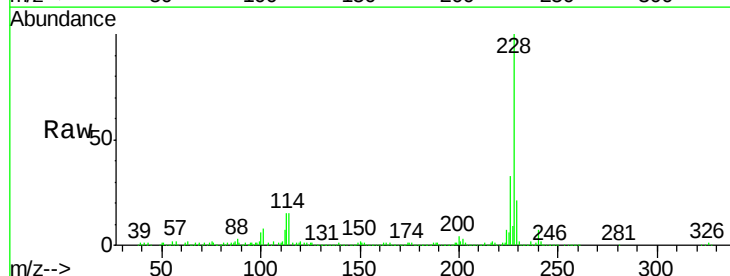
Instrument :
 BNA_F
 ClientSampleId :

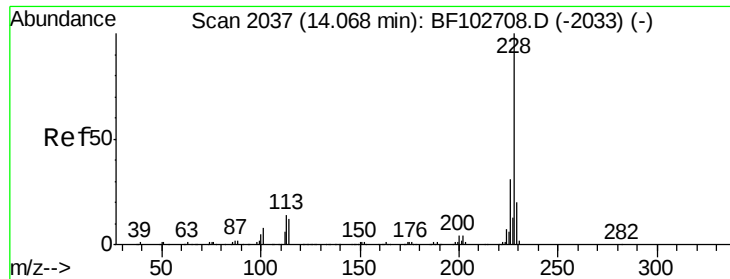
Tot Ion:244 Resp: 42712
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.4 8.0
 122 13.6 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 19.90 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.00 min
 Lab File: BF102948.D
 Acq: 13 Feb 2018 4:33

Tgt Ion:228 Resp: 377308
 Ion Ratio Lower Upper
 228 100
 226 33.1 22.6 33.8
 229 21.2 15.8 23.6





#82

Chrysene

Concen: 17.83 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

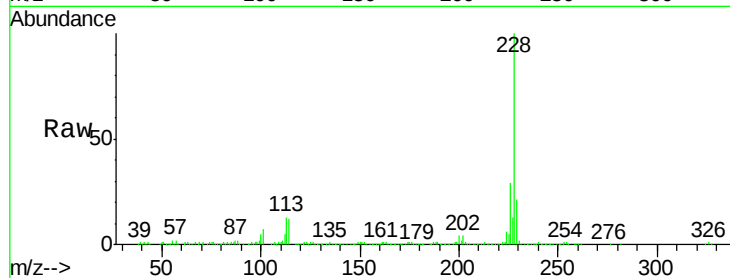
Instrument :

BNA_F

ClientSampled :

Tot Ion:228 Resp: 340725

Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.0	37.6
229	21.1	16.2	24.4

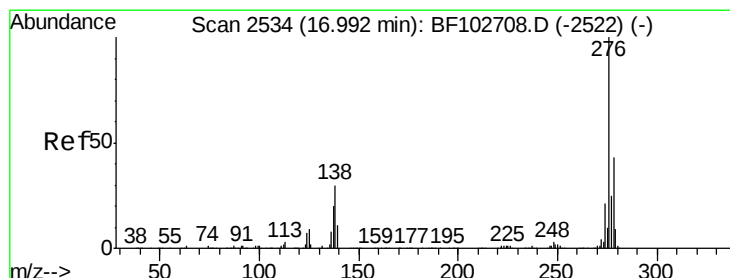
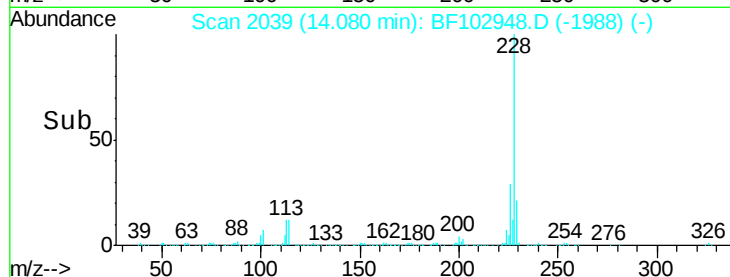
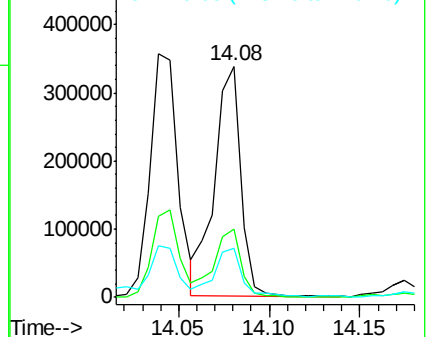


Abundance

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: 8.64 ng

RT: 17.04 min Scan# 2542

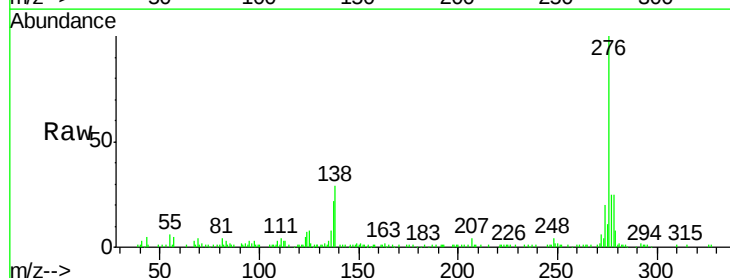
Delta R.T. 0.02 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Tgt Ion:276 Resp: 136894

Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.0	37.6
277	23.5	20.1	30.1

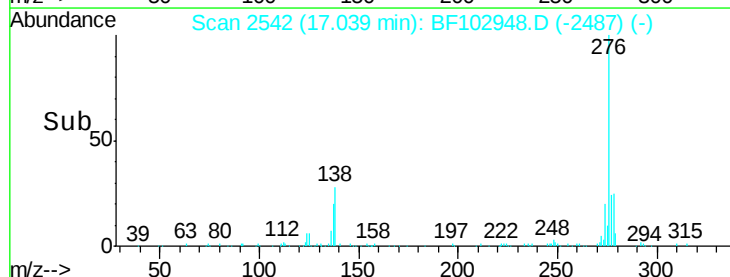
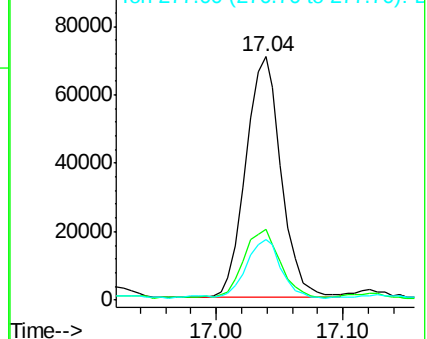


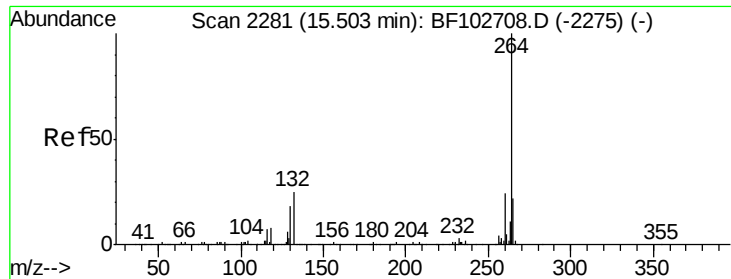
Abundance

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

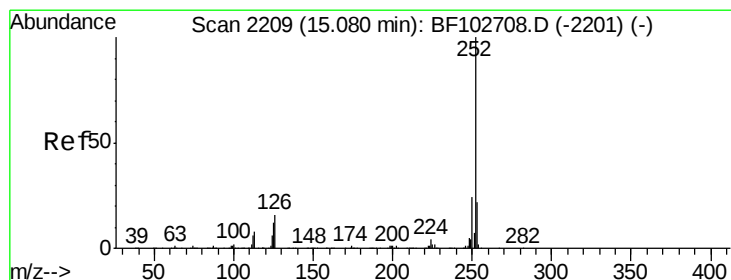
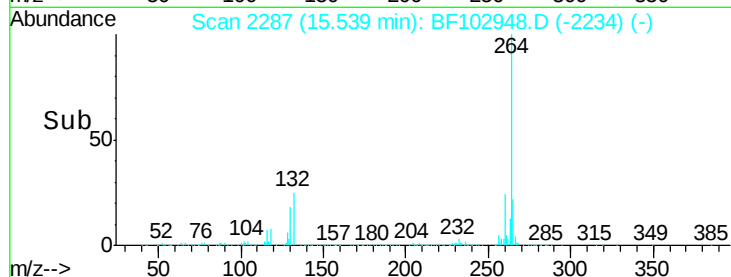
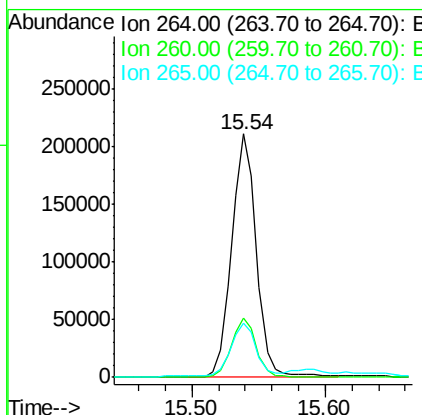
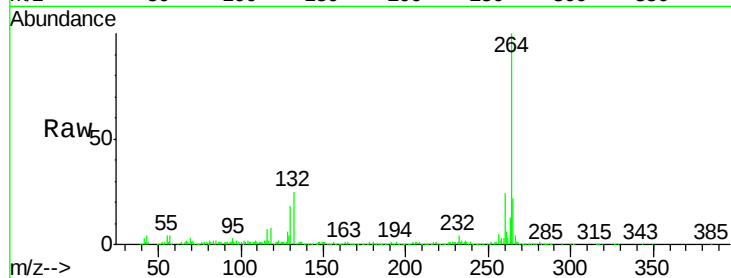




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

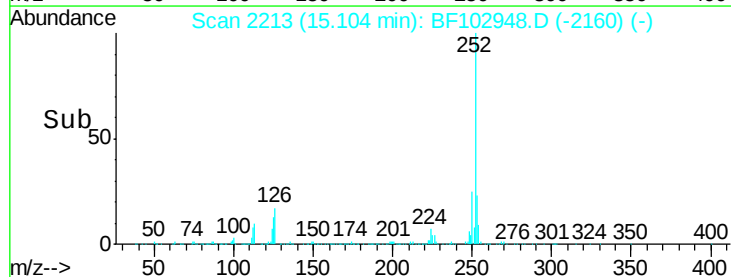
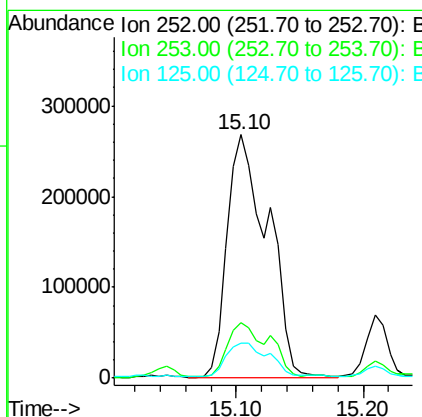
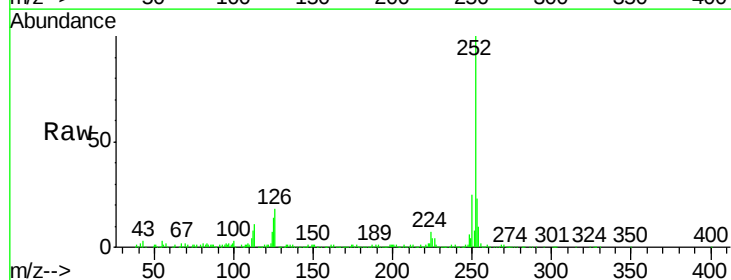
Instrument :
BNA_F
ClientSampleId :

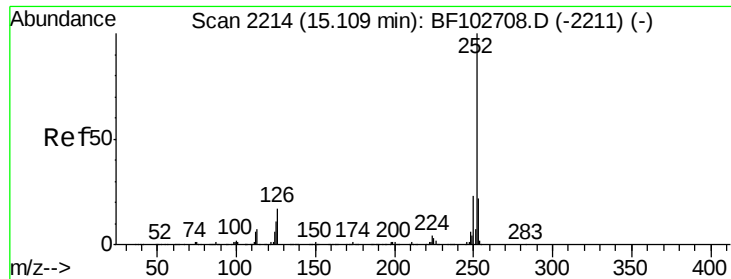
Tot Ion:264 Resp: 271870
Ion Ratio Lower Upper
264 100
260 24.2 19.2 28.8
265 22.4 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 33.81 ng
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Tgt Ion:252 Resp: 595984
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.6
125 14.2 9.0 13.6#

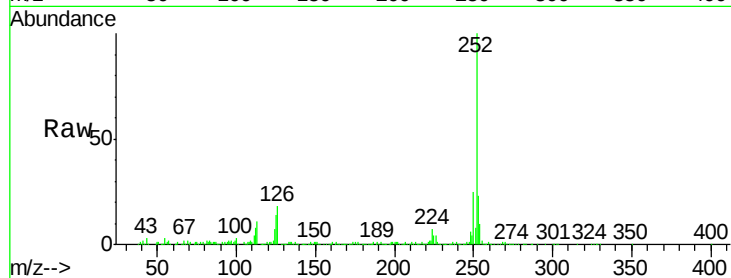




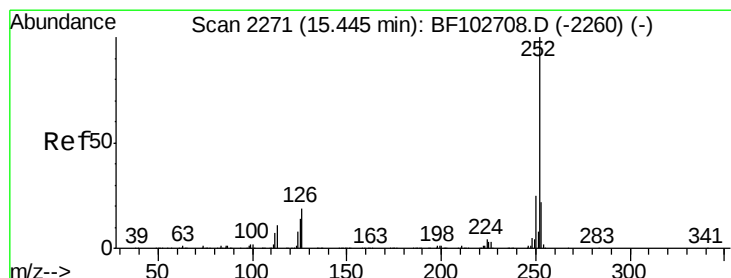
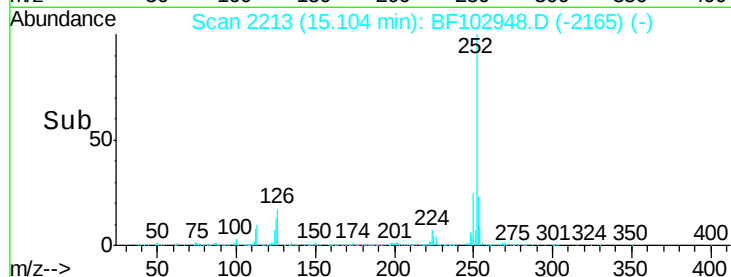
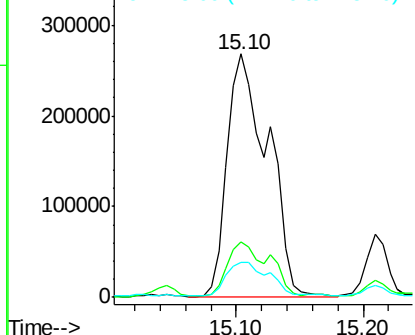
#88
Benzo(k)fluoranthene
Concen: 35.39 ng
RT: 15.10 min Scan# 2213
Delta R.T. -0.02 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	14.2	10.2	15.2

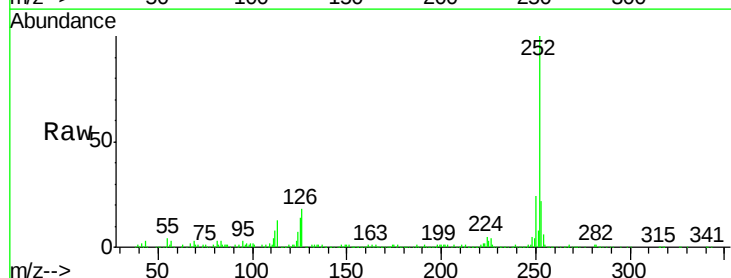


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

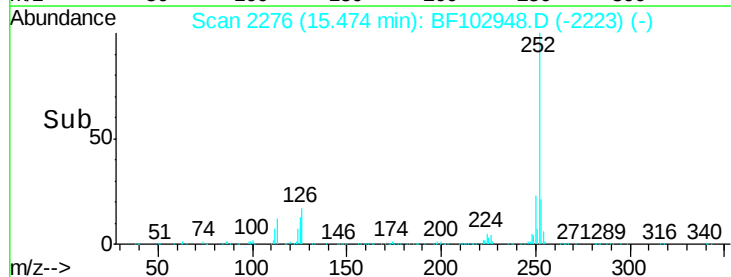
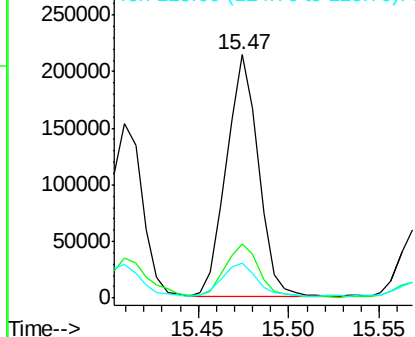


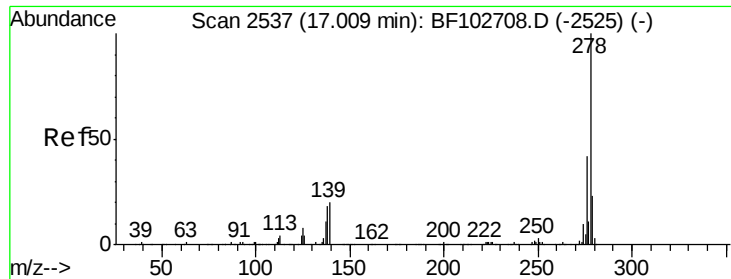
#89
Benzo(a)pyrene
Concen: 16.74 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF102948.D
Acq: 13 Feb 2018 4:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	14.1	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





#90

Dibenzo(a,h)anthracene

Concen: 2.85 ng

RT: 17.04 min Scan# 2543

Delta R.T. 0.01 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

Instrument :

BNA_F

ClientSampleId :

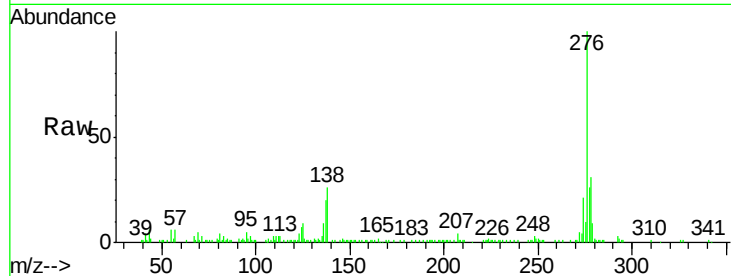
Tot Ion:278 Resp: 36756

Ion Ratio Lower Upper

278 100

139 0.0 15.9 23.9#

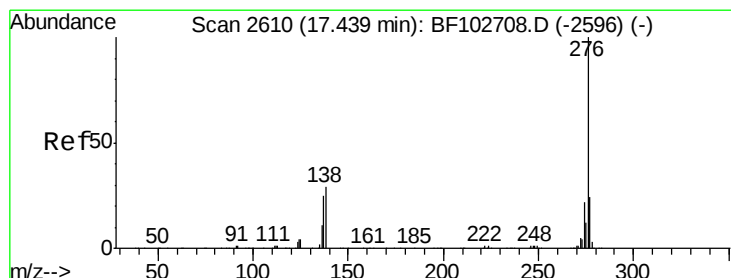
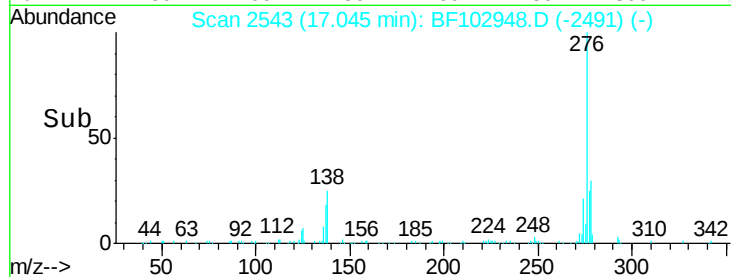
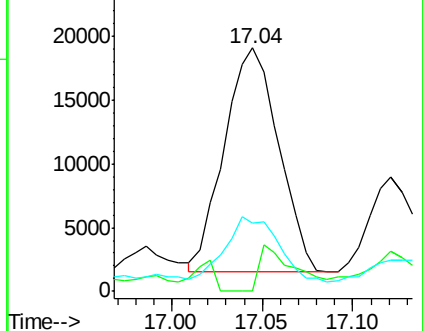
279 27.8 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 9.00 ng

RT: 17.49 min Scan# 2619

Delta R.T. 0.02 min

Lab File: BF102948.D

Acq: 13 Feb 2018 4:33

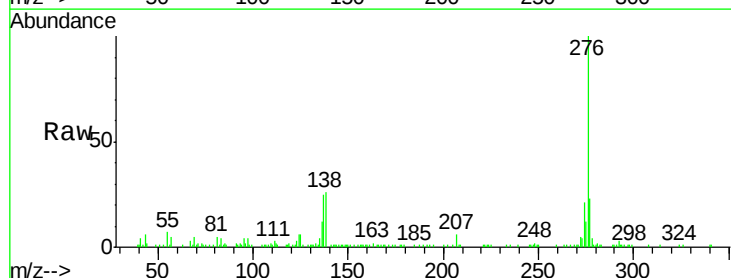
Tgt Ion:276 Resp: 113448

Ion Ratio Lower Upper

276 100

277 23.3 17.9 26.9

138 26.3 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

