

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022618\
 Data File : BF103239.D
 Acq On : 27 Feb 2018 1:02
 Operator : SJ/JU
 Sample : J1660-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 27 02:27:42 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 02:43:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	142181	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	563941	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	215634	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	329833	20.00	ng	0.00
75) Chrysene-d12	14.06	240	226100	20.00	ng	0.00
86) Perylene-d12	15.56	264	164056	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	827467	88.02	ng	0.01
7) Phenol-d6	6.51	99	966135	83.99	ng	0.00
23) Nitrobenzene-d5	7.44	82	543357	55.02	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	135232	74.09	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	848064	63.76	ng	0.00
78) Terphenyl-d14	12.99	244	614213	65.30	ng	0.00

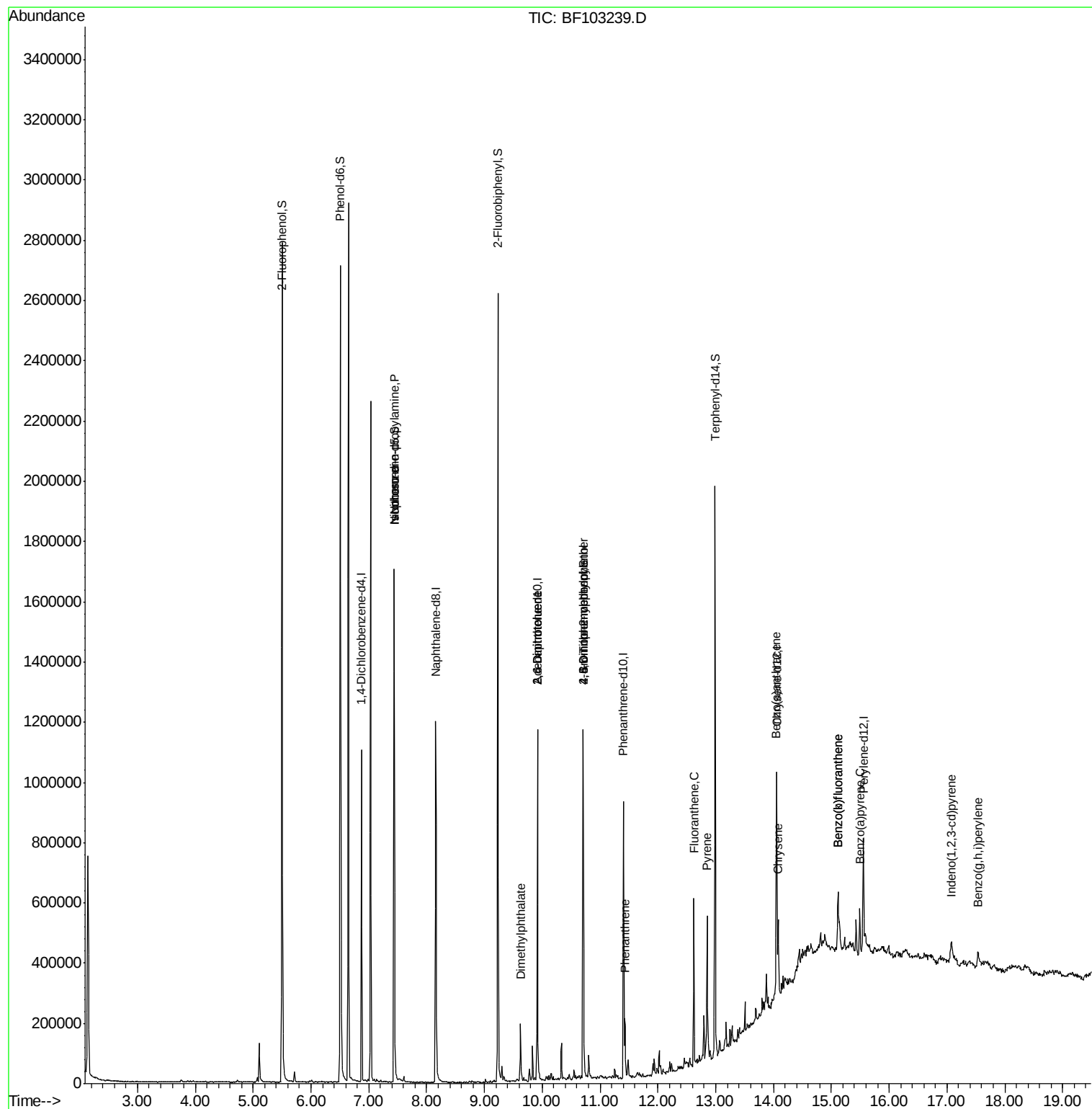
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	71241	9.95	ng	# 82
25) Isophorone	7.44	82	543351	27.94	ng	# 64
49) Dimethylphthalate	9.62	163	71953	4.16	ng	98
50) 2,6-Dinitrotoluene	9.92	165	27685	7.63	ng	# 26
56) 2,4-Dinitrotoluene	9.92	165	27685	6.03	ng	# 24
64) 4,6-Dinitro-2-methylphenol	10.71	198	159	5.02	ng	# 1
66) 4-Bromophenyl-phenylether	10.71	248	8728	2.54	ng	# 1
70) Phenanthrene	11.43	178	67579	3.72	ng	99
74) Fluoranthene	12.62	202	199135	10.92	ng	98
77) Pyrene	12.86	202	198747	11.27	ng	98
80) Benzo(a)anthracene	14.04	228	105621	7.20	ng	97
82) Chrysene	14.08	228	92519	6.50	ng	99
85) Indeno(1,2,3-cd)pyrene	17.07	276	37040	3.28	ng	97
87) Benzo(b)fluoranthene	15.12	252	145446	13.48	ng	# 91
88) Benzo(k)fluoranthene	15.12	252	145446	14.32	ng	# 94
89) Benzo(a)pyrene	15.49	252	72982	7.58	ng	# 93
91) Benzo(a,h,i)perylene	17.54	276	37427	5.15	ng	95

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

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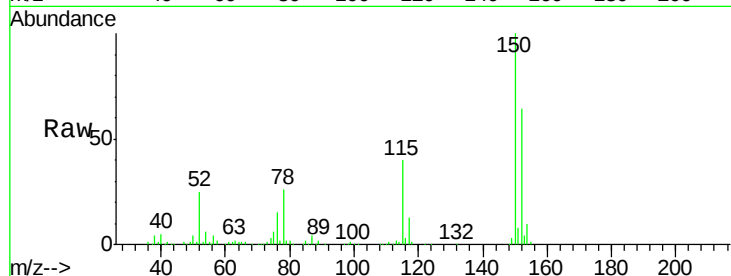


#1

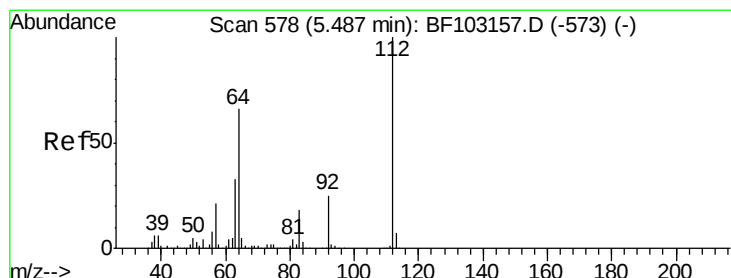
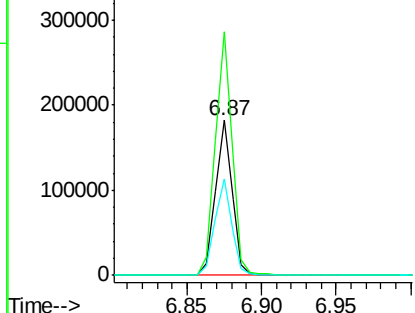
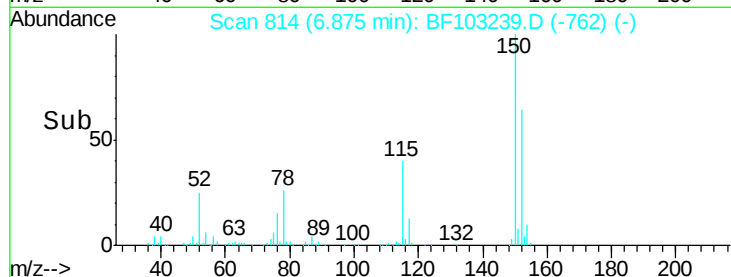
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 814
Delta R.T. 0.01 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	152	Resp	142181
Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	62.1	50.1	75.1



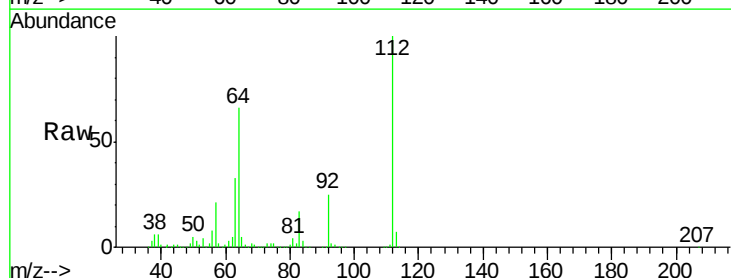
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



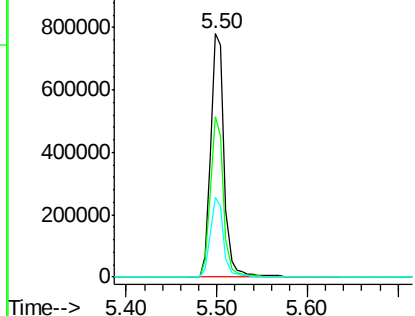
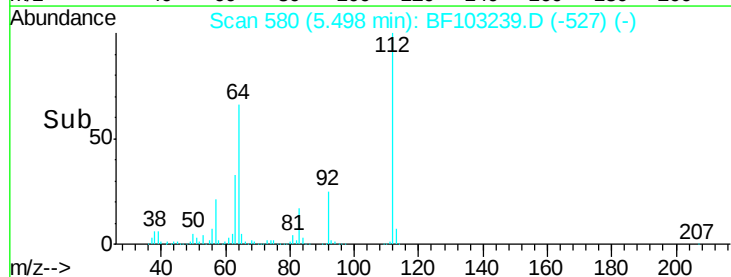
#5

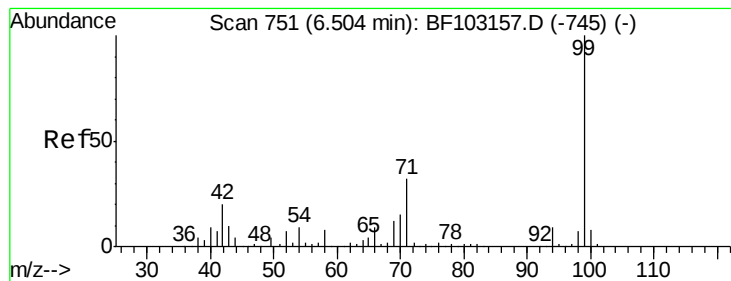
2-Fluorophenol
Concen: 88.02 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

Tgt Ion	112	Resp	827467
Ion	Ratio	Lower	Upper
112	100		
64	66.0	47.9	71.9
63	32.8	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: 83.99 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

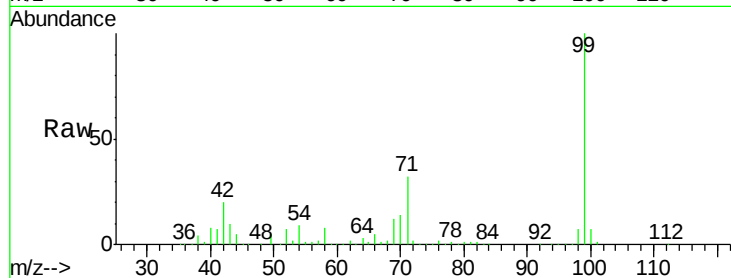
Tot Ion: 99 Resp: 966135

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

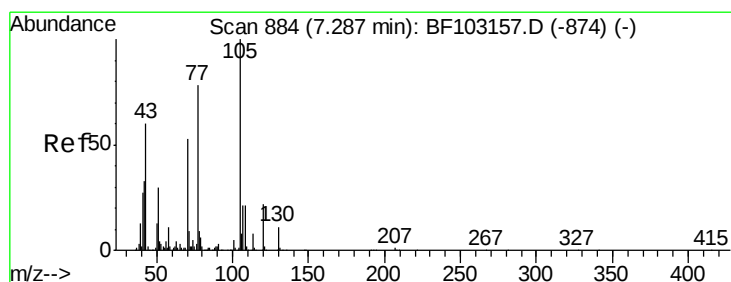
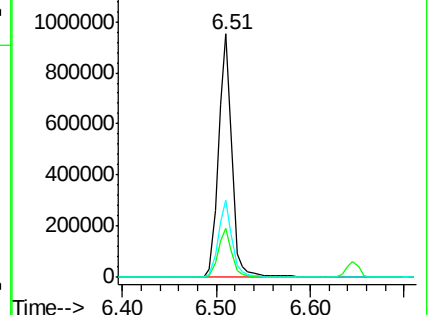
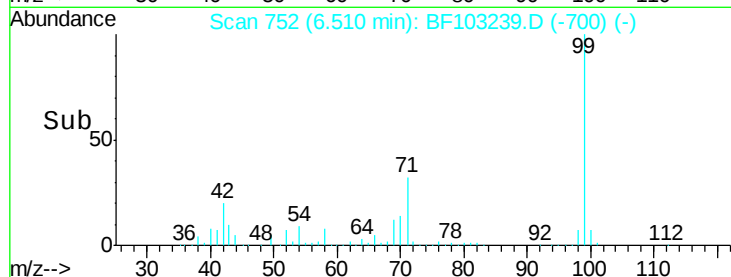
71 31.8 25.4 38.0



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: 9.95 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Tgt Ion: 70 Resp: 71241

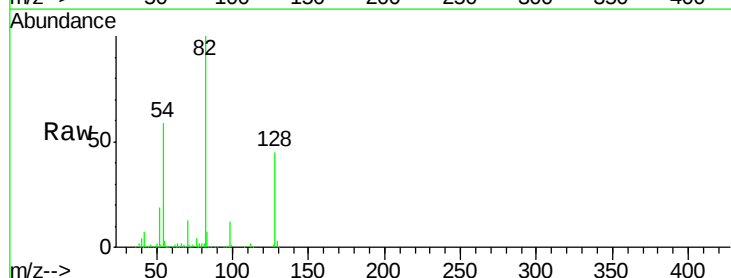
Ion Ratio Lower Upper

70 100

42 52.6 47.5 71.3

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#

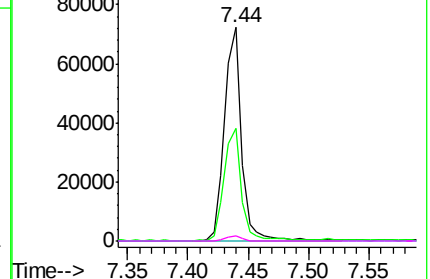
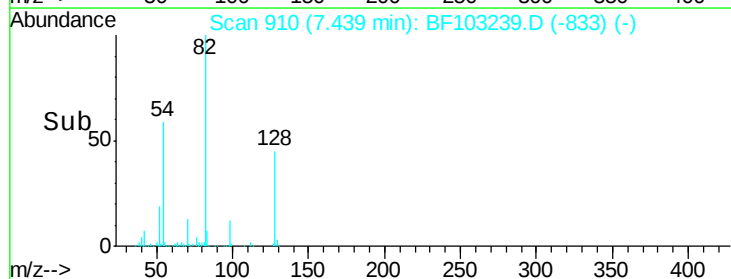


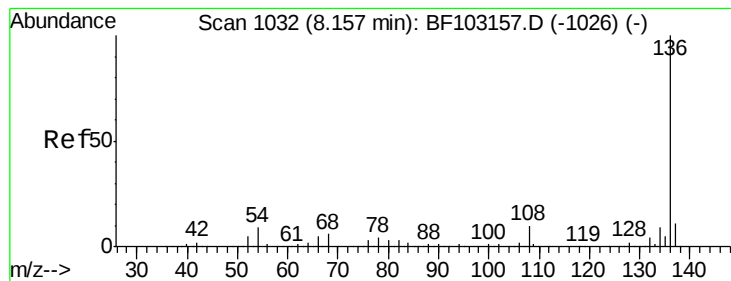
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.00 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 563941

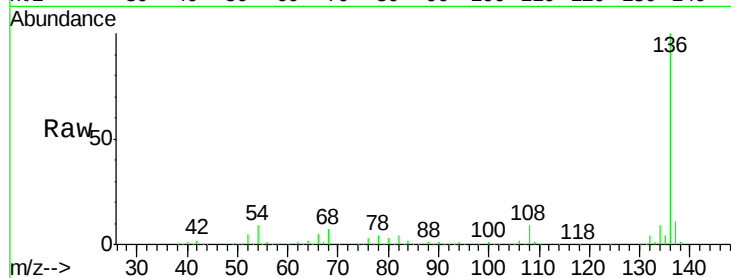
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.4 6.6 9.8

68 6.8 5.0 7.4

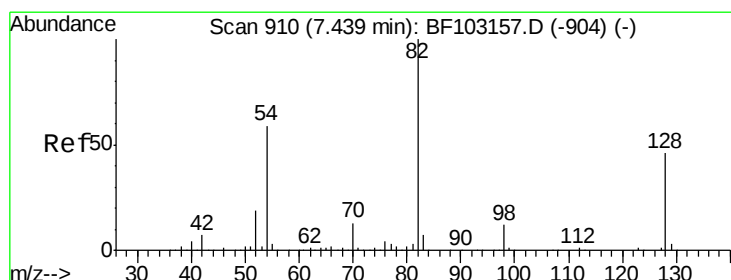
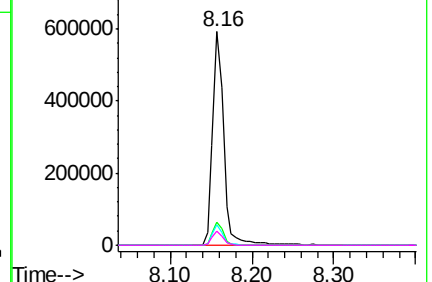
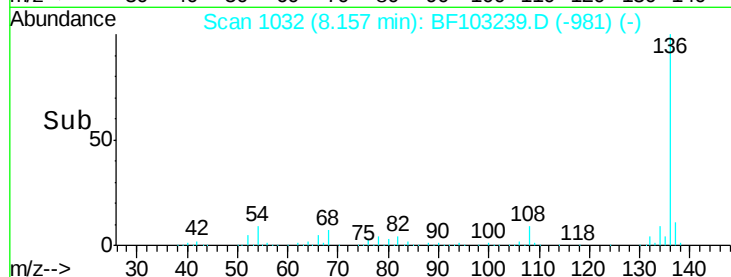


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 55.02 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.00 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

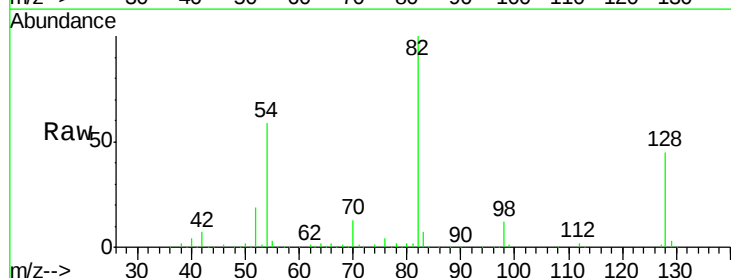
Tgt Ion: 82 Resp: 543357

Ion Ratio Lower Upper

82 100

128 45.4 36.1 54.1

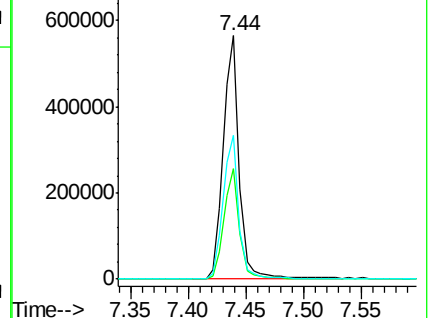
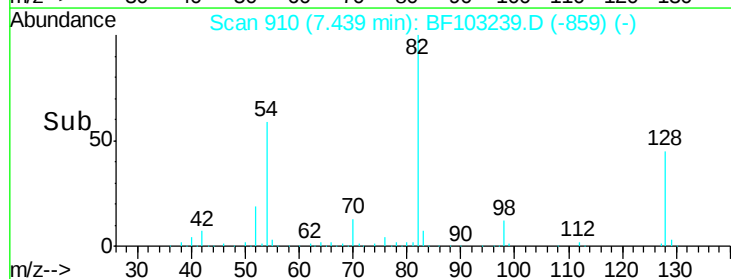
54 58.8 41.4 62.2

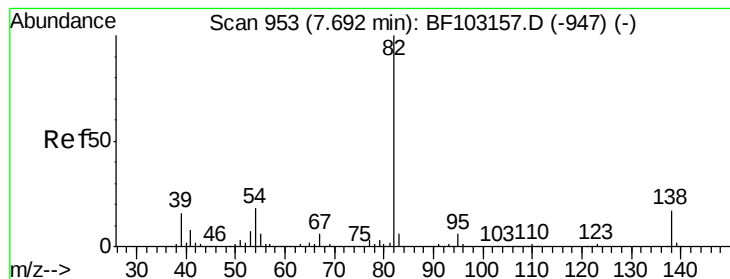


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 27.94 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.25 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

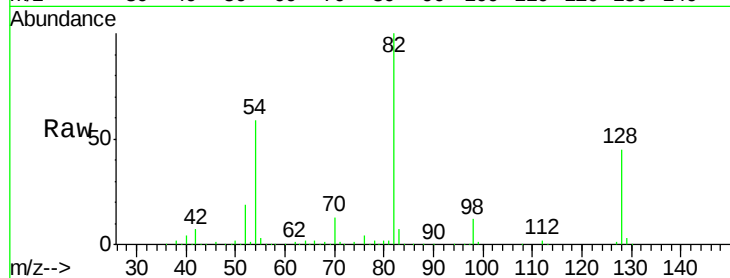
Tot Ion: 82 Resp: 543351

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

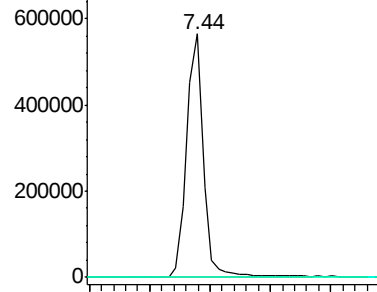
138 0.0 14.9 22.3#



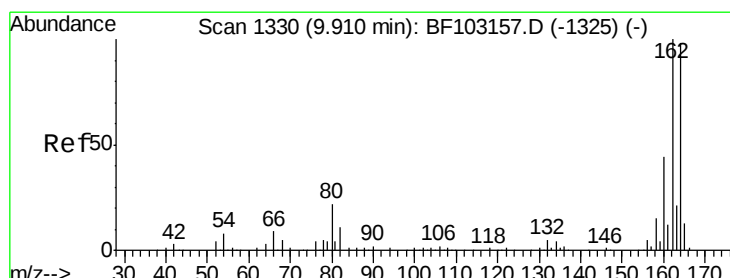
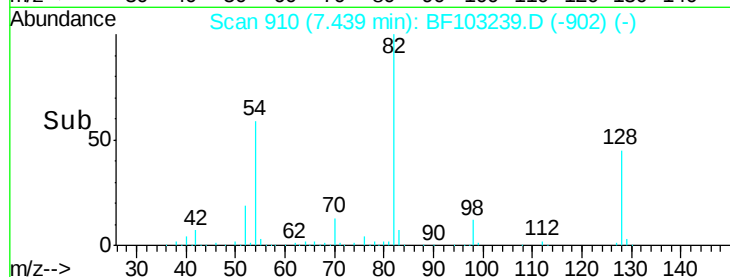
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



Time--> 7.35 7.40 7.45 7.50 7.55



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

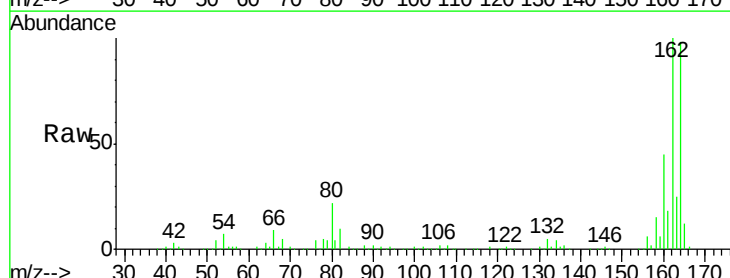
Tgt Ion: 164 Resp: 215634

Ion Ratio Lower Upper

164 100

162 102.3 86.1 129.1

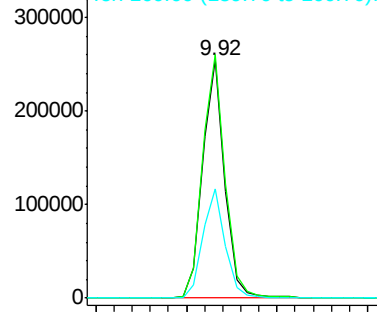
160 46.1 38.3 57.5



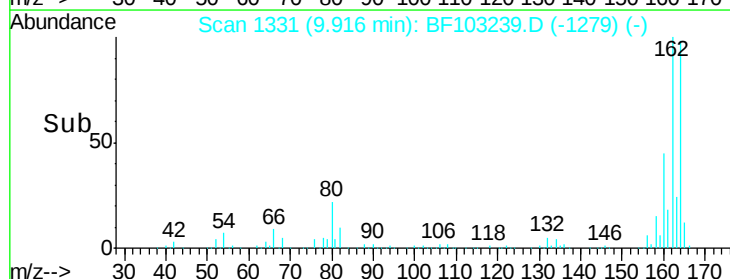
Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1



Time--> 9.85 9.90 9.95

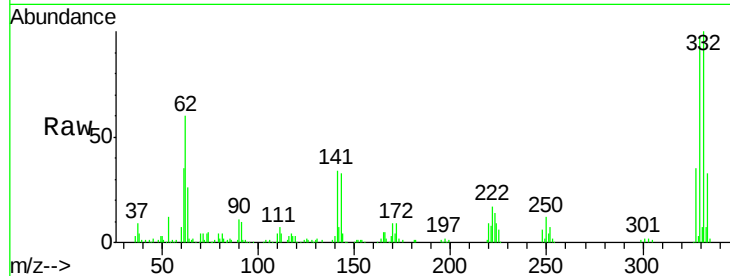




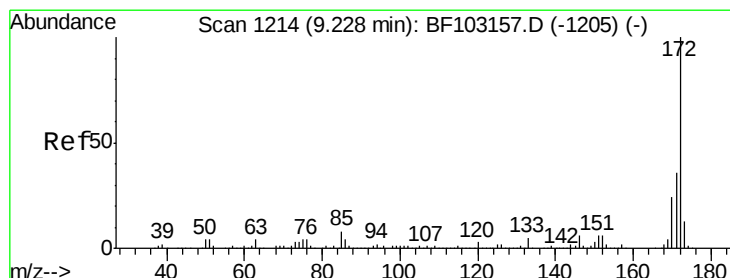
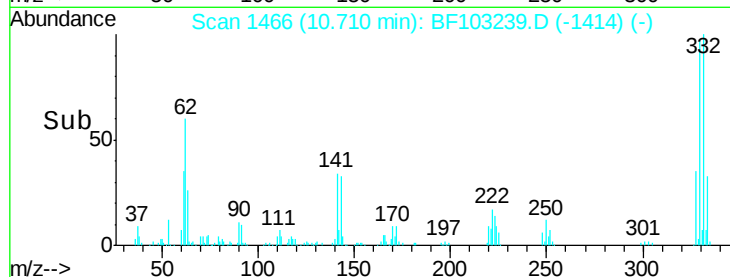
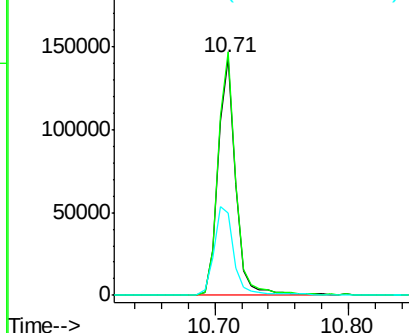
#41
 2,4,6-Tribromophenol
 Concen: 74.09 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.01 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	103.1	77.0	115.6
141	42.6	29.9	44.9

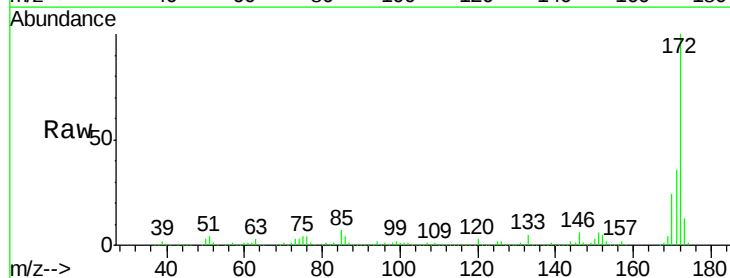


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

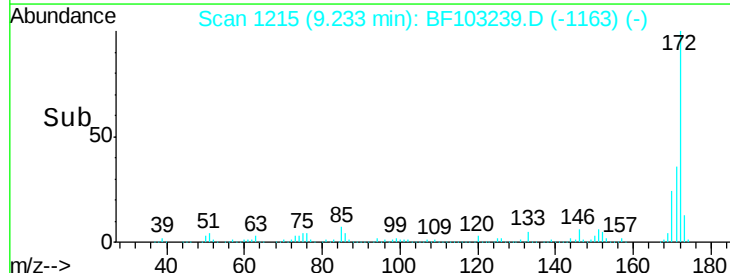
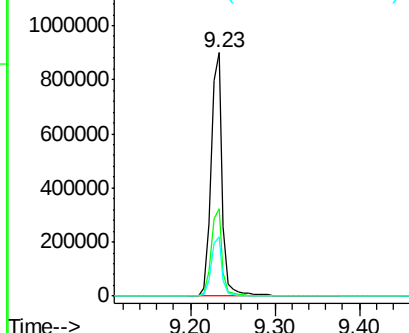


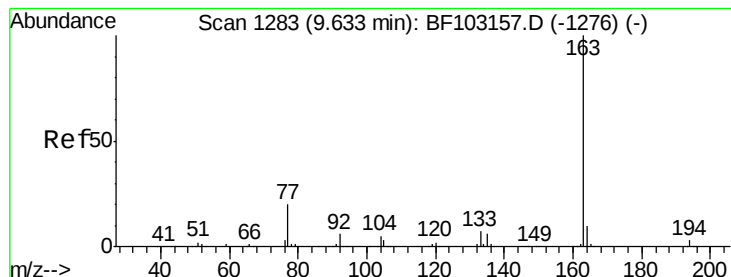
#44
 2-Fluorobiphenyl
 Concen: 63.76 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. 0.01 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.7	44.5
170	24.4	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: 4.16 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampled :

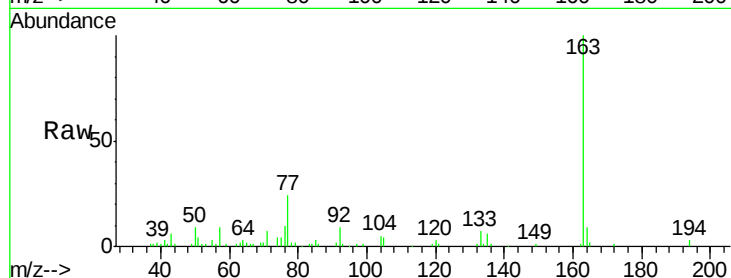
Tot Ion:163 Resp: 71953

Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

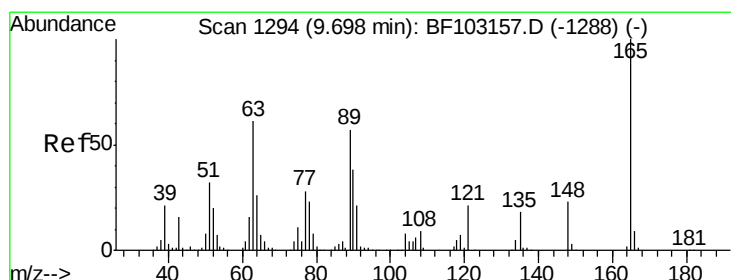
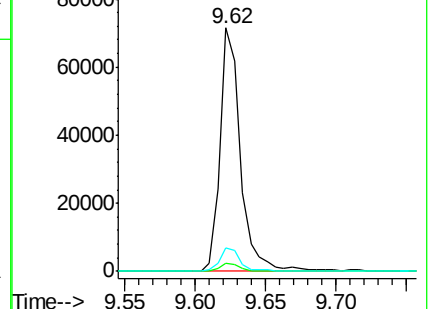
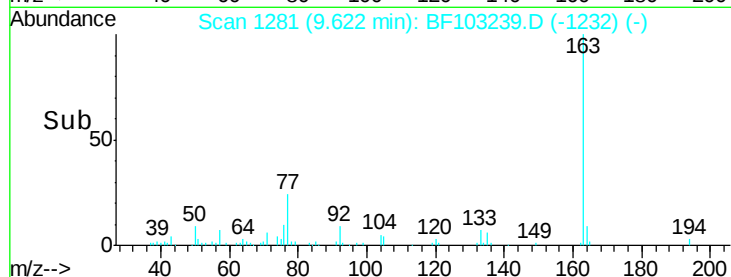
164 9.4 8.2 12.2



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: 7.63 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.22 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

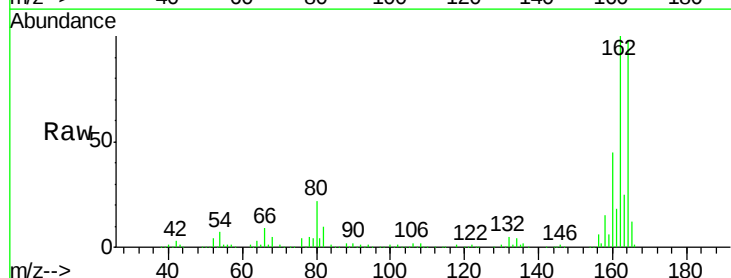
Tgt Ion:165 Resp: 27685

Ion Ratio Lower Upper

165 100

63 1.9 44.7 67.1#

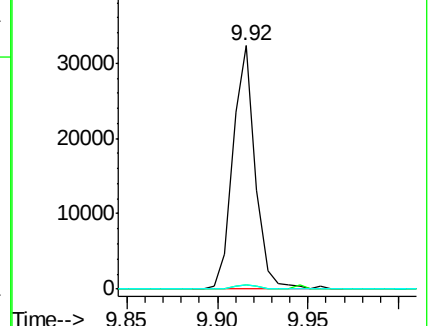
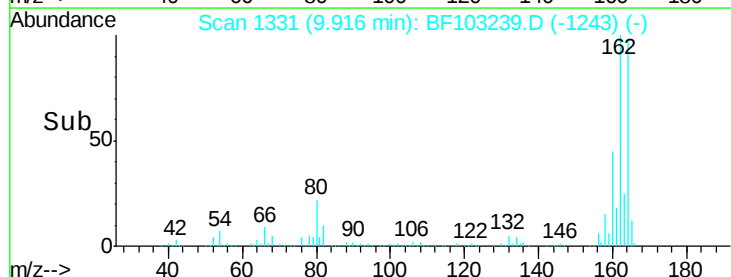
89 1.6 44.0 66.0#

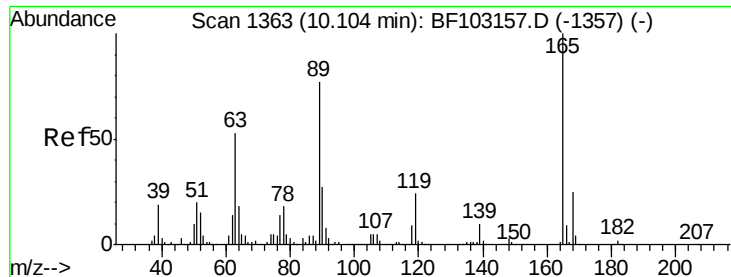


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

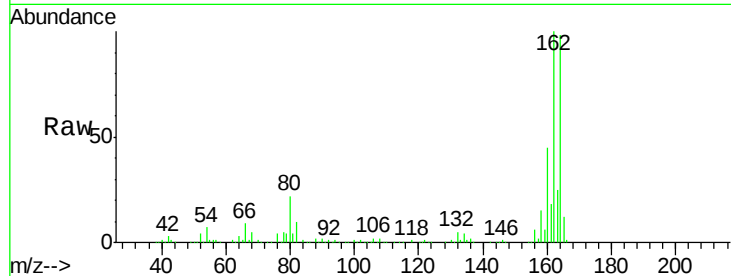




#56
 2,4-Dinitrotoluene
 Concen: 6.03 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.19 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	36.4	54.6#
89	1.6	57.8	86.6#
182	0.0	1.6	2.4#

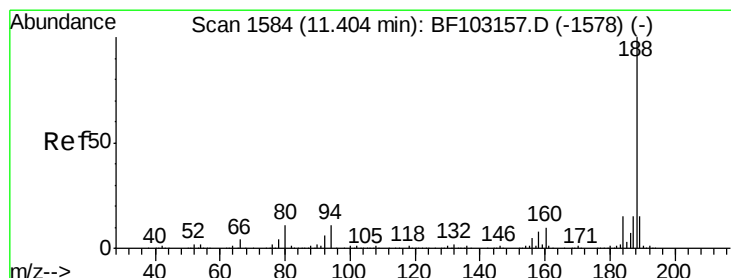
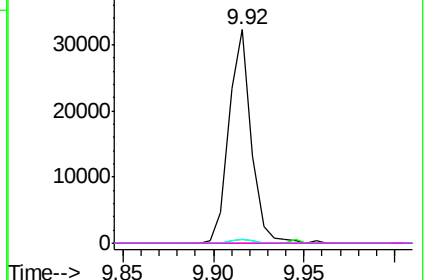
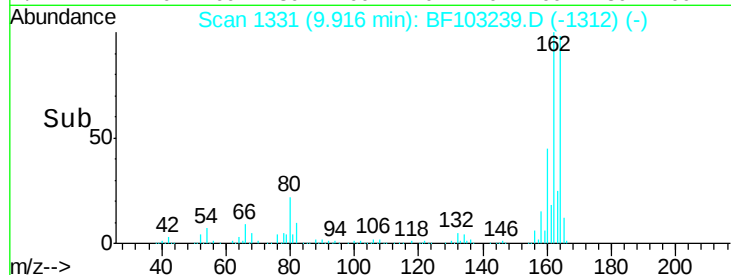


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

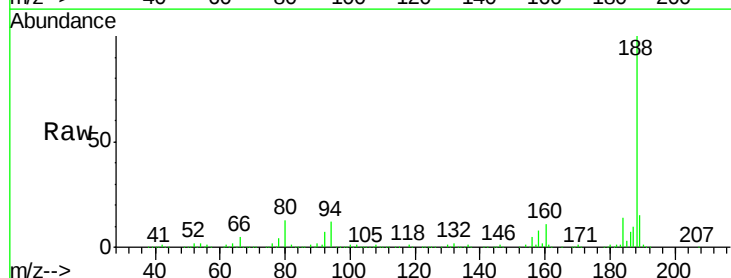
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

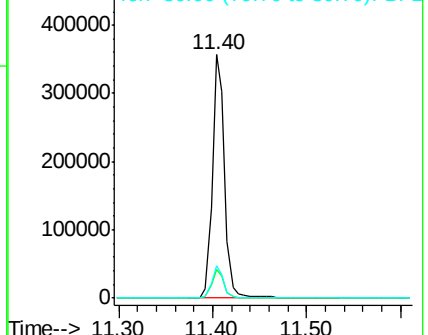
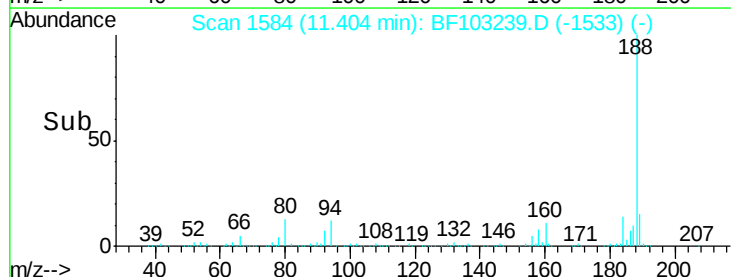
Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	8.5	12.7
80	13.2	9.2	13.8

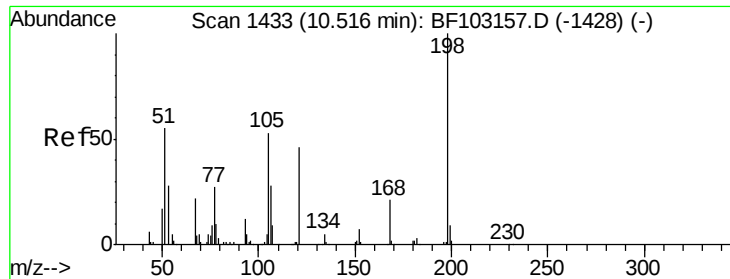


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

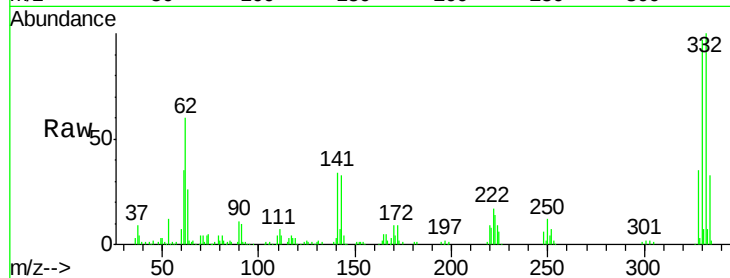




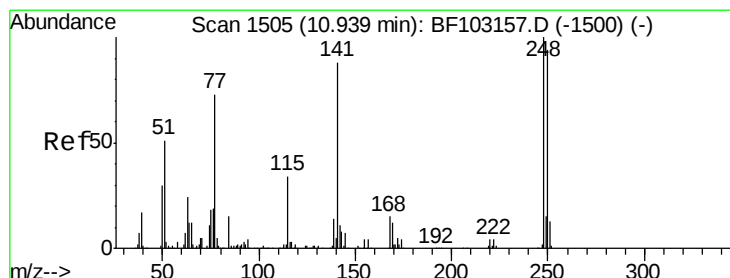
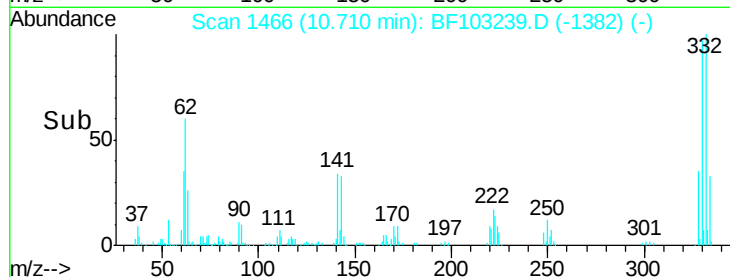
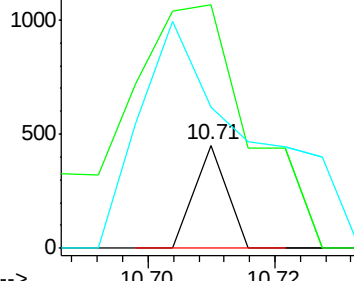
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.02 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.19 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:198 Resp: 159
 Ion Ratio Lower Upper
 198 100
 51 235.8 37.7 77.7#
 105 136.9 36.3 76.3#

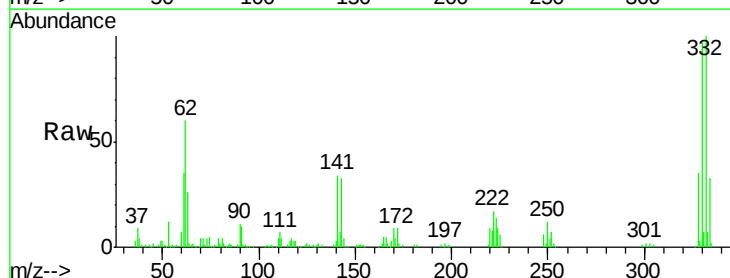


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

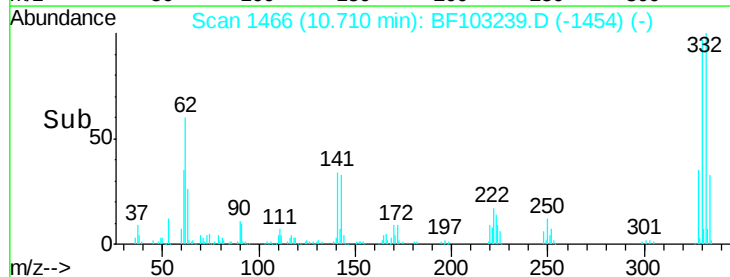
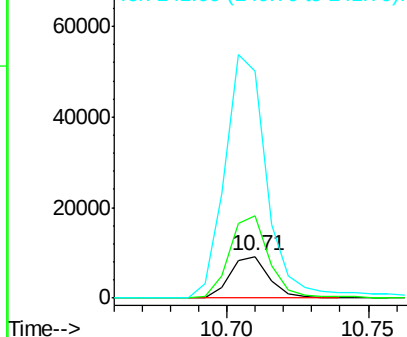


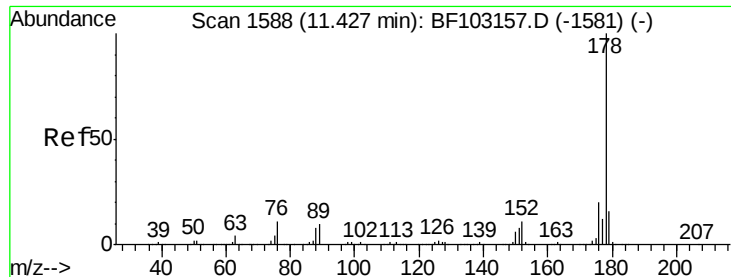
#66
 4-Bromophenyl-phenylether
 Concen: 2.54 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.23 min
 Lab File: BF103239.D
 Acq: 27 Feb 2018 1:02

Tgt Ion:248 Resp: 8728
 Ion Ratio Lower Upper
 248 100
 250 200.6 76.9 115.3#
 141 548.3 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 3.72 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

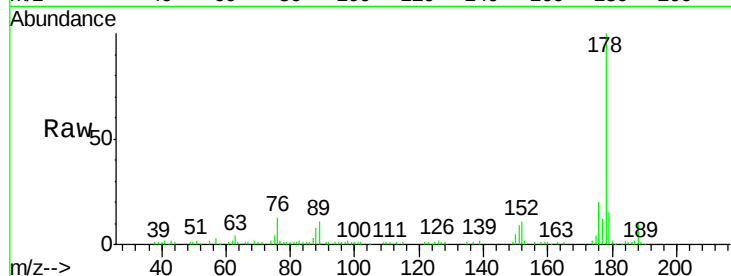
Tot Ion:178 Resp: 67579

Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

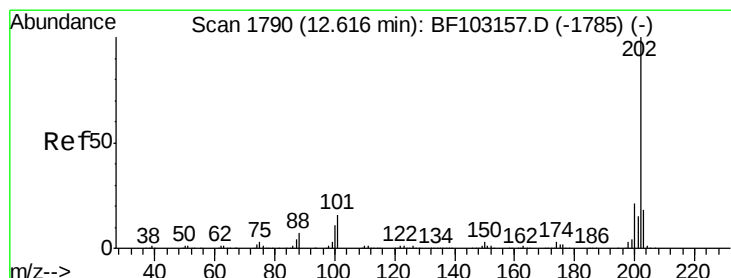
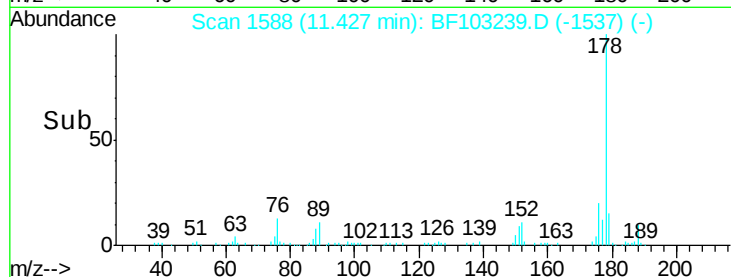
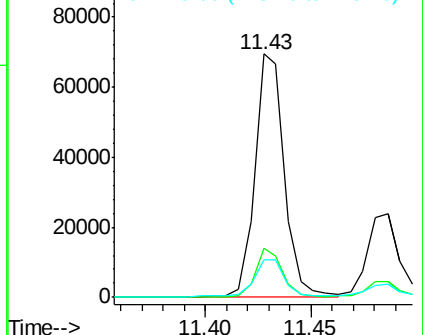
179 15.4 13.0 19.6



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



#74

Fluoranthene

Concen: 10.92 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

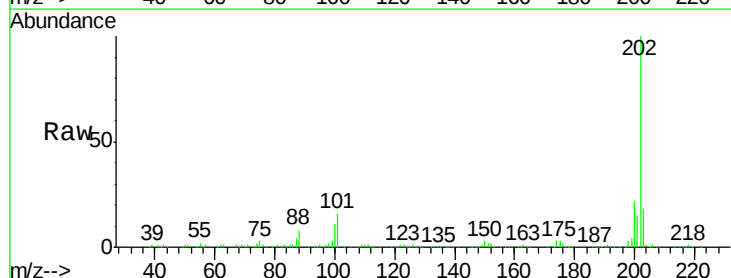
Tgt Ion:202 Resp: 199135

Ion Ratio Lower Upper

202 100

101 15.9 0.0 34.1

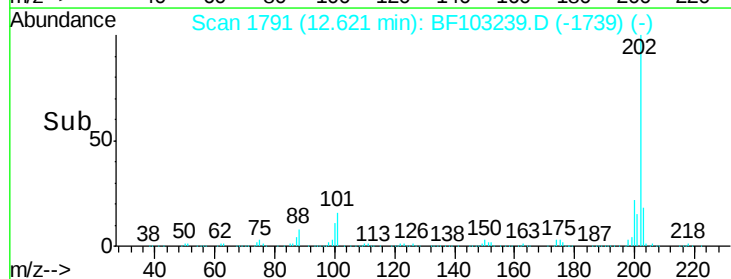
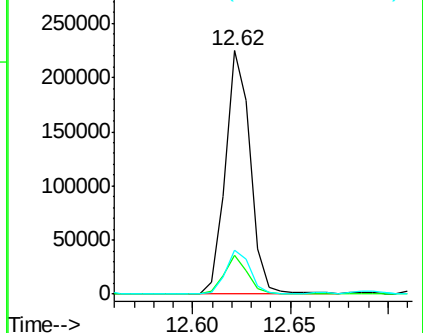
203 18.1 0.0 38.1

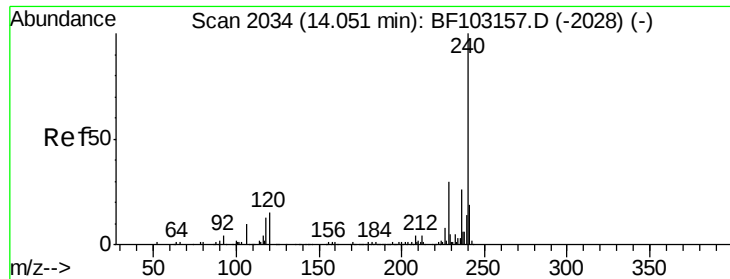


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

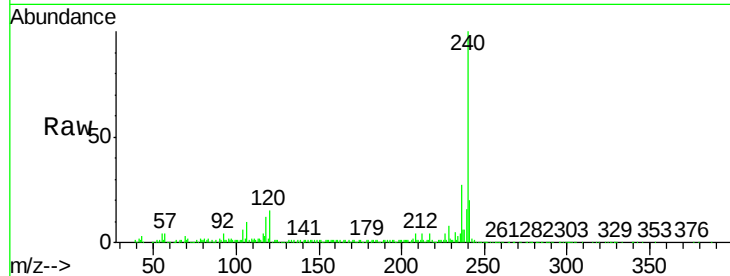
Tot Ion:240 Resp: 226100

Ion Ratio Lower Upper

240 100

120 14.7 9.5 14.3#

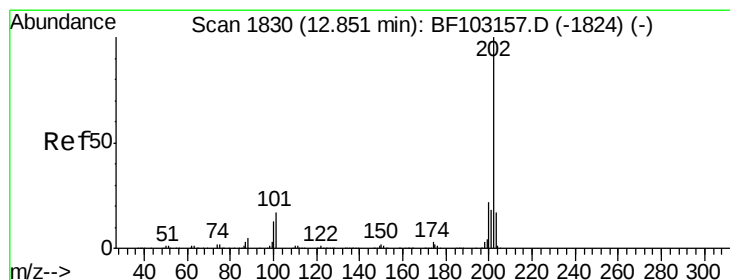
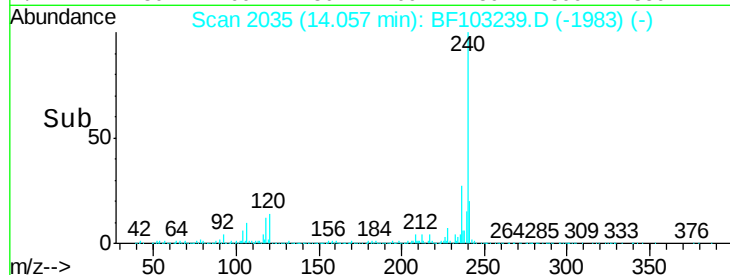
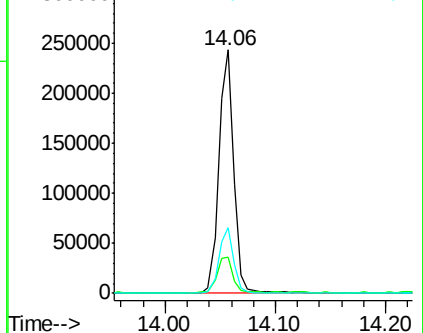
236 27.0 20.7 31.1



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: 11.27 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

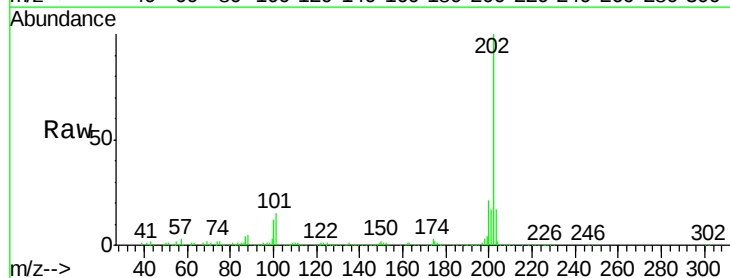
Tgt Ion:202 Resp: 198747

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

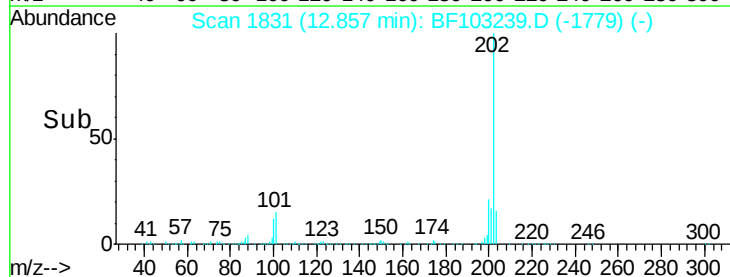
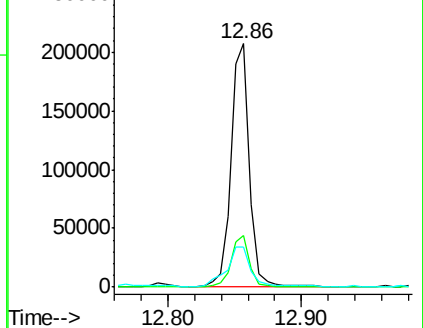
203 16.6 14.3 21.5

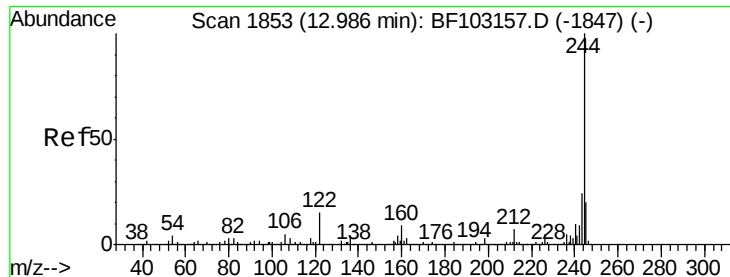


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 65.30 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

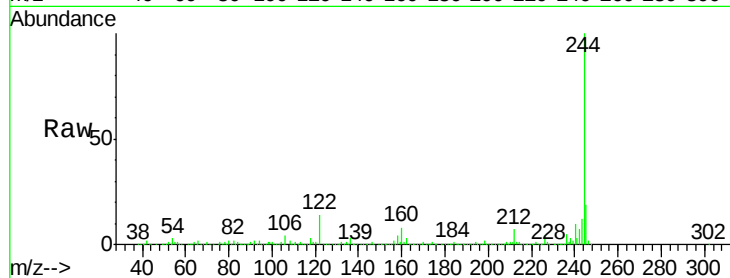
Tot Ion:244 Resp: 614213

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

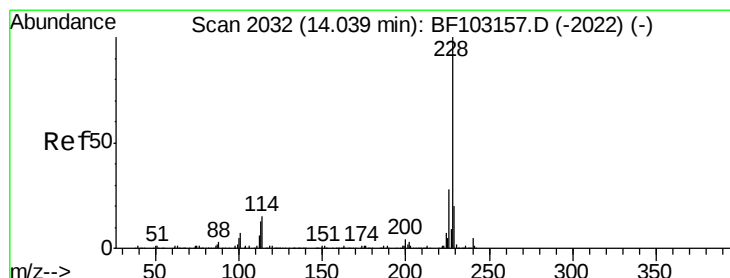
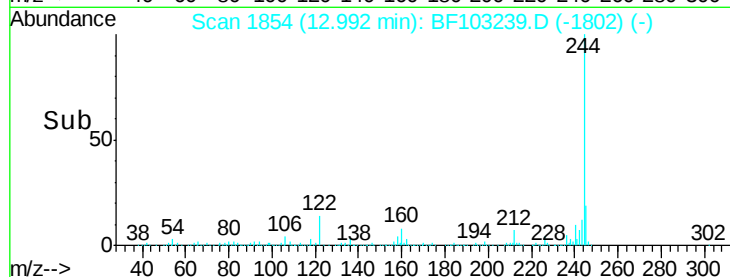
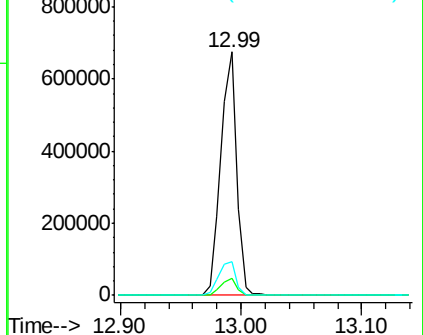
122 14.0 11.0 16.4



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: 7.20 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

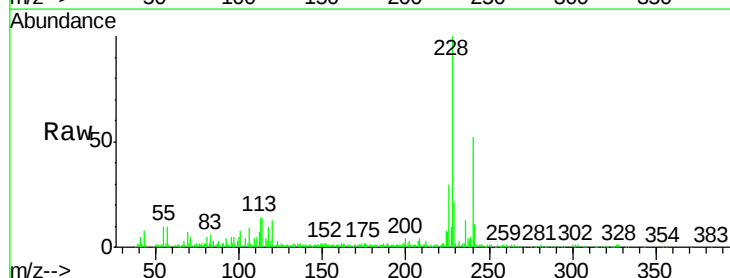
Tgt Ion:228 Resp: 105621

Ion Ratio Lower Upper

228 100

226 29.9 22.6 33.8

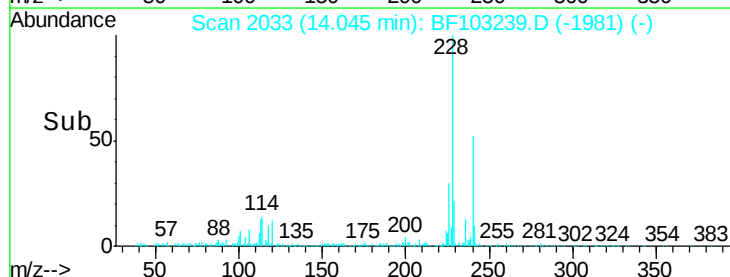
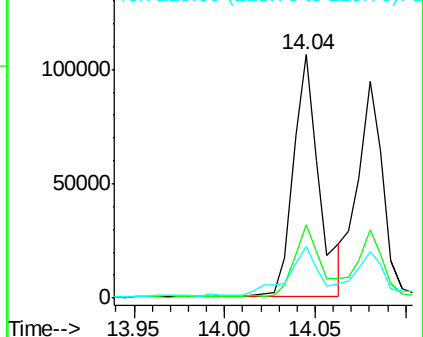
229 21.2 15.8 23.6

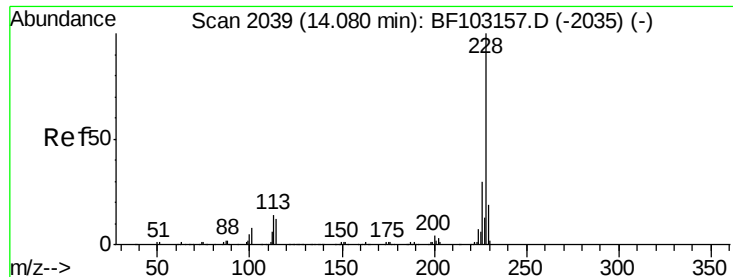


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.50 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.00 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

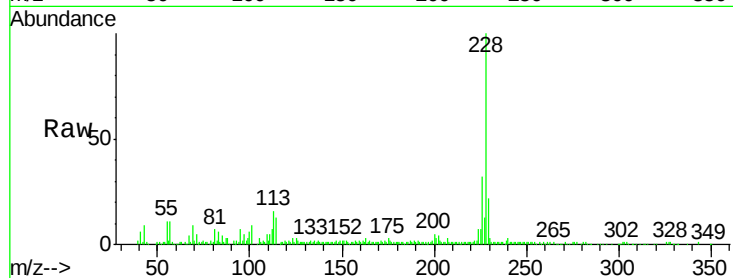
Tot Ion:228 Resp: 92519

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.6

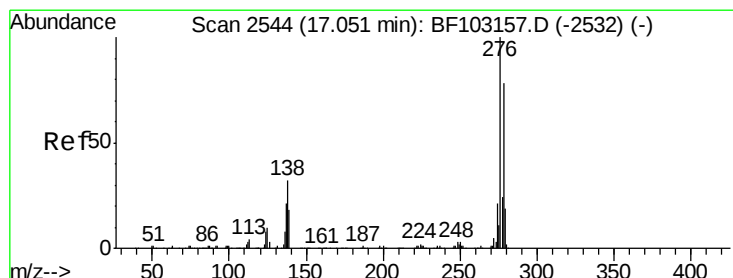
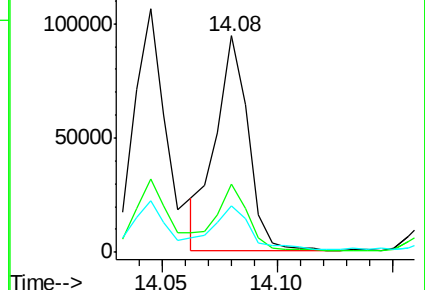
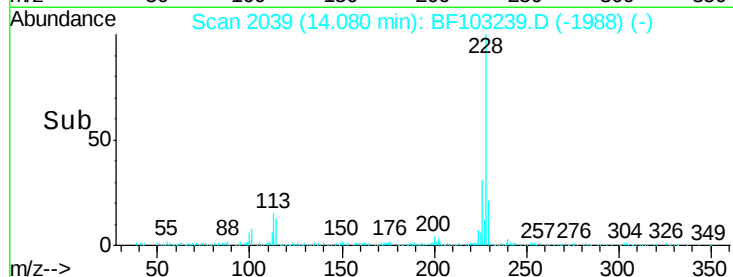
229 21.7 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.28 ng

RT: 17.07 min Scan# 2548

Delta R.T. 0.02 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

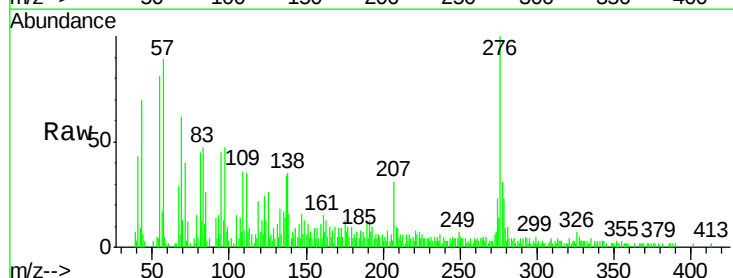
Tgt Ion:276 Resp: 37040

Ion Ratio Lower Upper

276 100

138 30.5 25.0 37.6

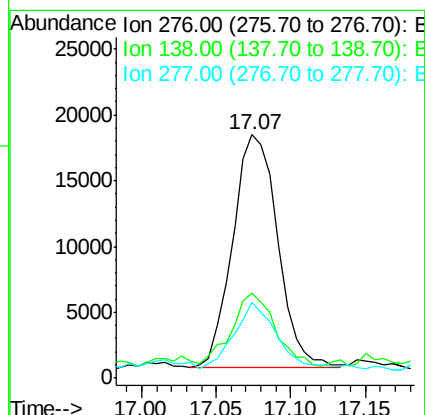
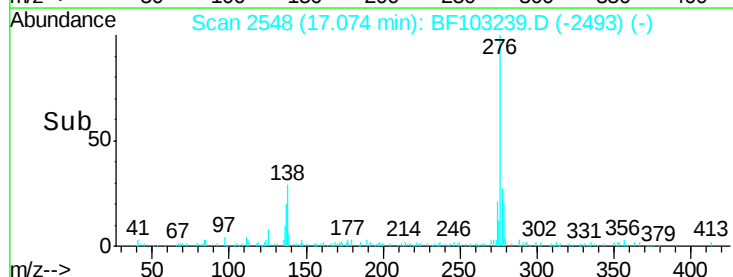
277 27.9 20.1 30.1

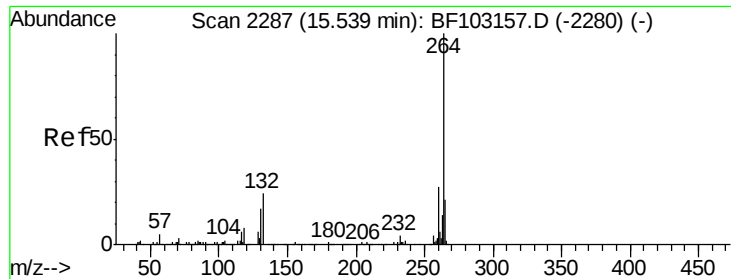


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

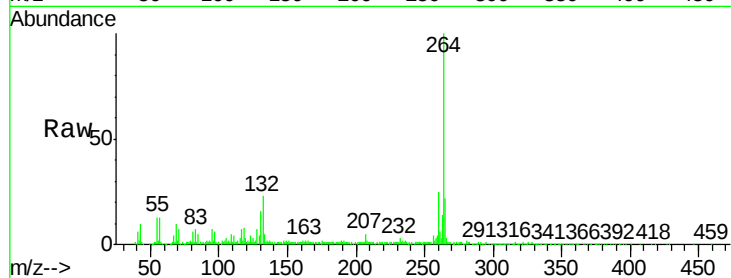




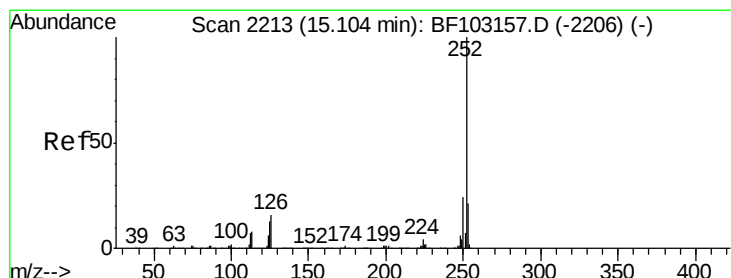
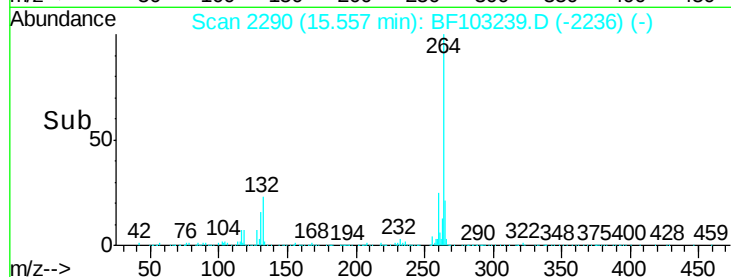
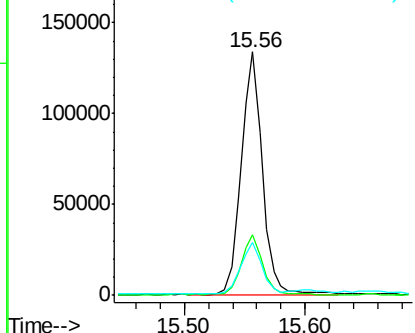
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.56 min Scan# 2290
Delta R.T. 0.02 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 164056
Ion Ratio Lower Upper
264 100
260 25.0 19.2 28.8
265 21.7 17.5 26.3

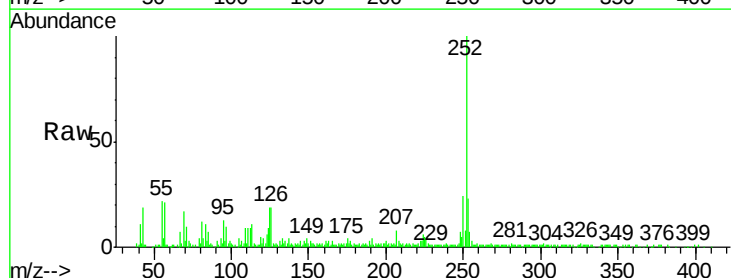


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

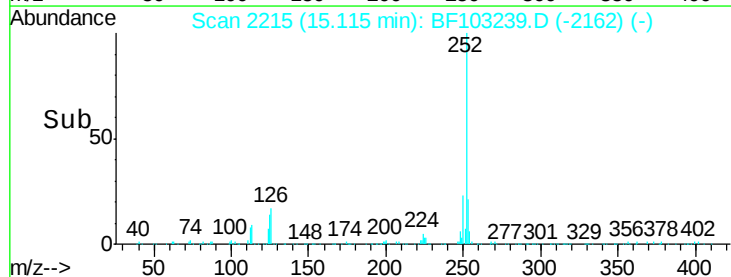
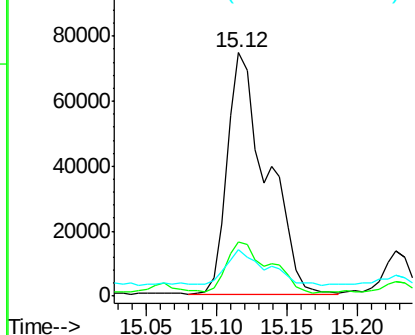


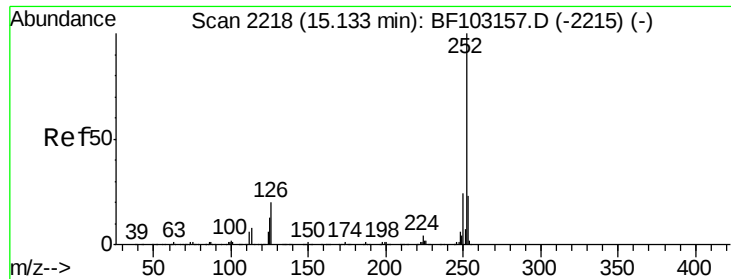
#87
Benzo(b)fluoranthene
Concen: 13.48 ng
RT: 15.12 min Scan# 2215
Delta R.T. 0.01 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

Tgt Ion:252 Resp: 145446
Ion Ratio Lower Upper
252 100
253 22.5 17.0 25.6
125 19.3 9.0 13.6#



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

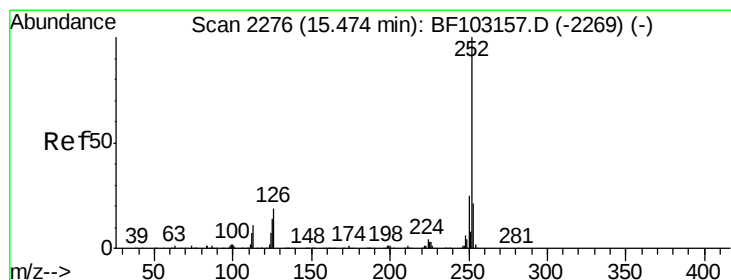
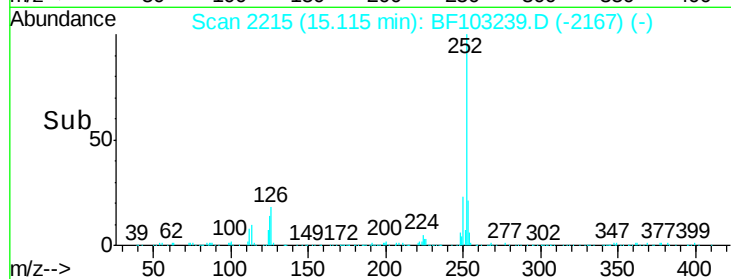
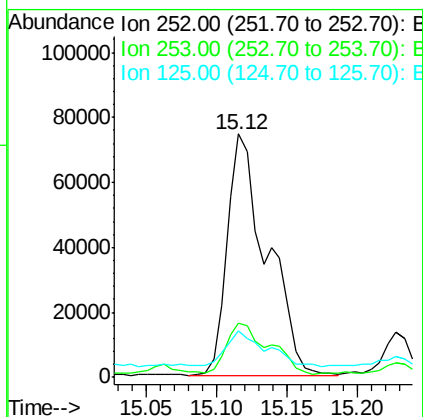
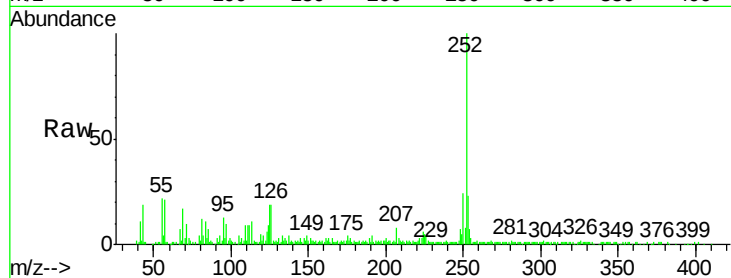




#88
Benzo(k)fluoranthene
Concen: 14.32 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.02 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

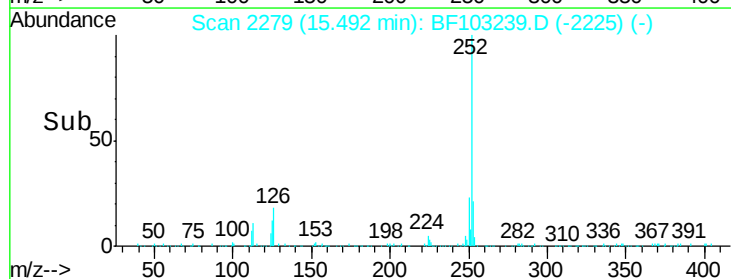
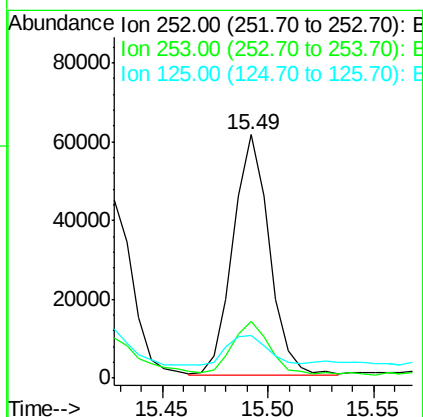
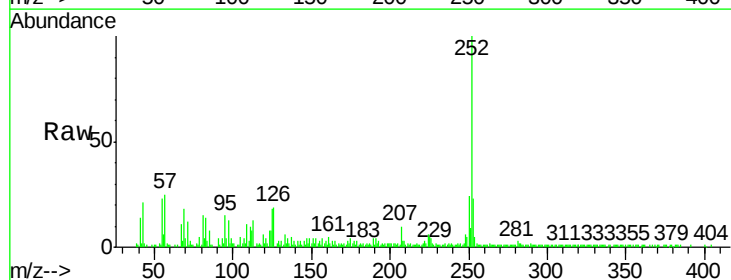
Instrument :
BNA_F
ClientSampleId :

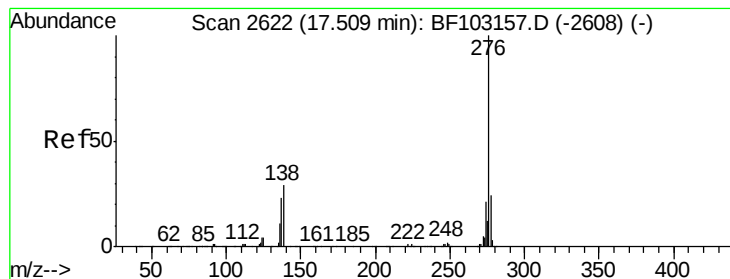
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	19.3	10.2	15.2



#89
Benzo(a)pyrene
Concen: 7.58 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.02 min
Lab File: BF103239.D
Acq: 27 Feb 2018 1:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	17.6	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 5.15 ng

RT: 17.54 min Scan# 2628

Delta R.T. 0.04 min

Lab File: BF103239.D

Acq: 27 Feb 2018 1:02

Instrument :

BNA_F

ClientSampleId :

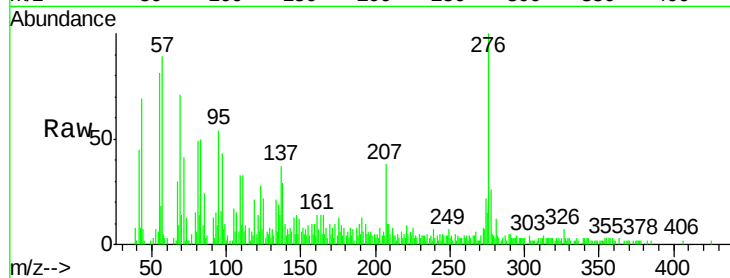
Tot Ion:276 Resp: 37427

Ion Ratio Lower Upper

276 100

277 25.9 17.9 26.9

138 28.9 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

