

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\
 Data File : BF088270.D
 Acq On : 23 Jun 2016 1:08
 Operator : UM/SJ
 Sample : H3514-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 23 04:27:38 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	83533	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	314446	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	129468	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	186120	20.00	ng	0.00
75) Chrysene-d12	13.75	240	158611	20.00	ng	0.00
86) Perylene-d12	15.12	264	105081	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.19	112	656978	134.45	ng	0.01
7) Phenol-d6	6.26	99	872581	147.35	ng	0.00
23) Nitrobenzene-d5	7.18	82	468809	87.06	ng	0.00
41) 2,4,6-Tribromophenol	10.43	330	137544	100.61	ng	0.00
44) 2-Fluorobiphenyl	8.97	172	745811	90.88	ng	0.00
78) Terphenyl-d14	12.70	244	528991	75.89	ng	0.00

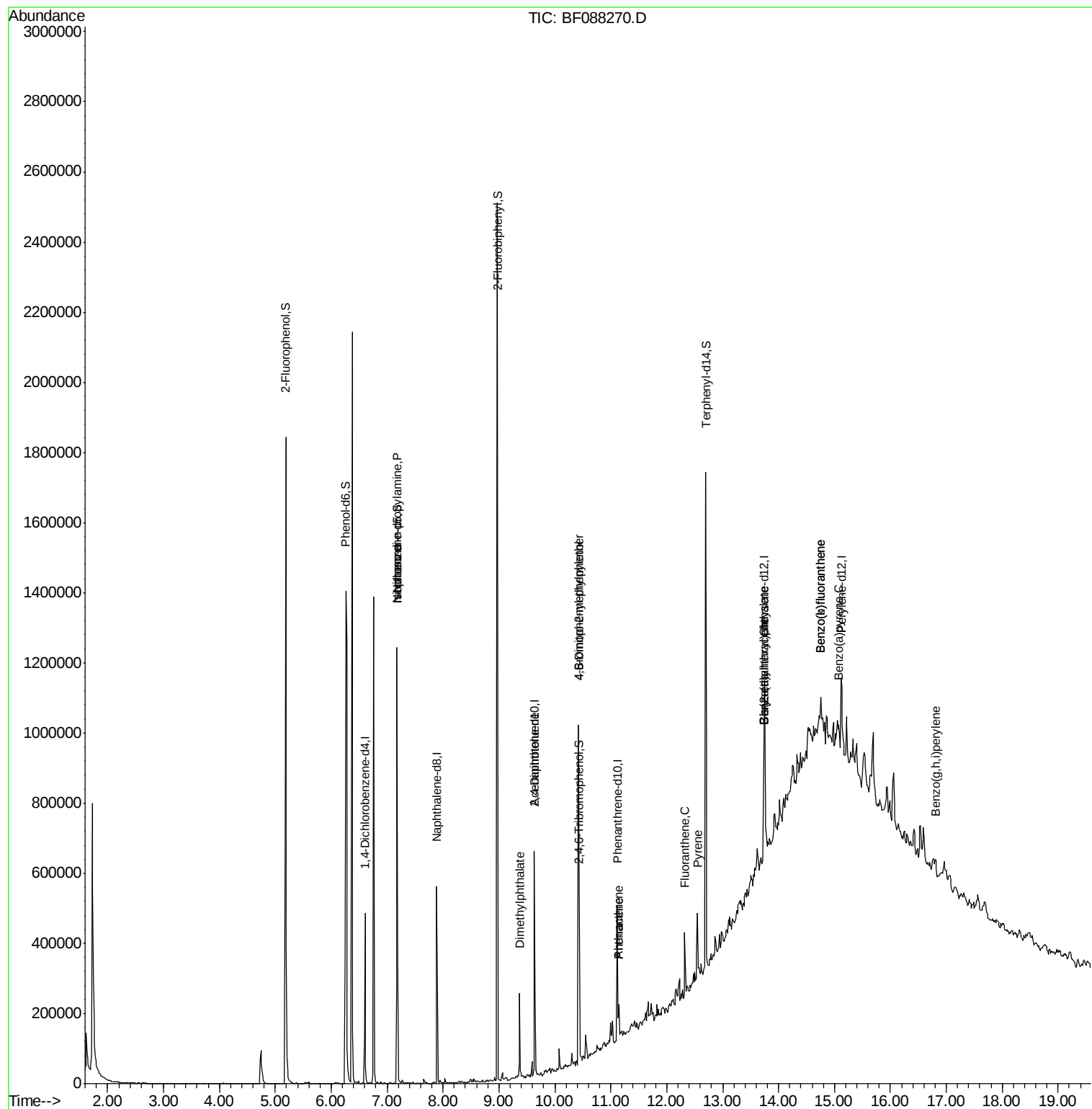
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.28	94	5282	Below Cal	#	59
19) n-Nitroso-di-n-propylamine	7.18	70	61332	16.19	ng	70
25) Isophorone	7.18	82	468799	47.00	ng	65
45) 1,1'-Biphenyl	9.07	154	430	Below Cal	#	43
49) Dimethylphthalate	9.37	163	96500	10.29	ng	99
56) 2,4-Dinitrotoluene	9.63	165	16897	6.12	ng	36
57) Fluorene	10.18	166	3662	Below Cal	#	96
64) 4,6-Dinitro-2-methylphenol	10.42	198	245	2.36	ng	1
66) 4-Bromophenyl-phenylether	10.42	248	8263	4.14	ng	1
70) Phenanthrene	11.14	178	42087	4.31	ng	98
71) Anthracene	11.14	178	42087	4.27	ng	98
74) Fluoranthene	12.32	202	79142	7.68	ng	95
77) Pvrene	12.55	202	80887	6.87	ng	99
80) Benzo(a)anthracene	13.74	228	50199	5.55	ng	94
82) Chrysene	13.74	228	50199	5.90	ng	92
83) Bis(2-ethylhexyl)phthalate	13.74	149	36979	5.84	ng	96
87) Benzo(b)fluoranthene	14.75	252	56019	7.65	ng	55
88) Benzo(k)fluoranthene	14.75	252	56019	10.14	ng	60
89) Benzo(a)pvrene	15.07	252	25642	4.33	ng	53
91) Benzo(a,h,i)perylene	16.81	276	16483	2.91	ng	71

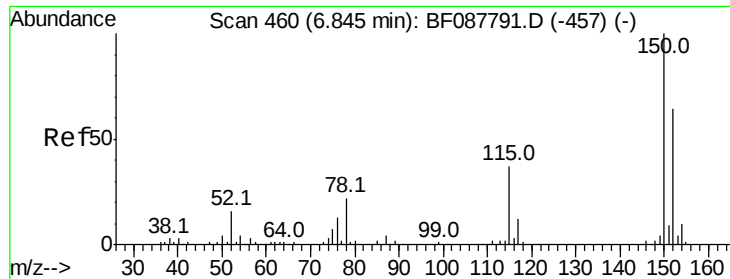
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 439

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

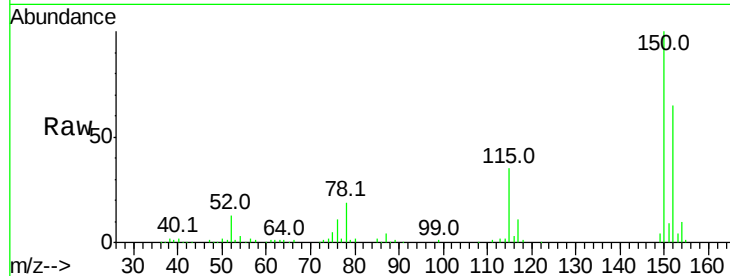
Tot Ion:152 Resp: 83533

Ion Ratio Lower Upper

152 100

150 154.2 123.8 185.6

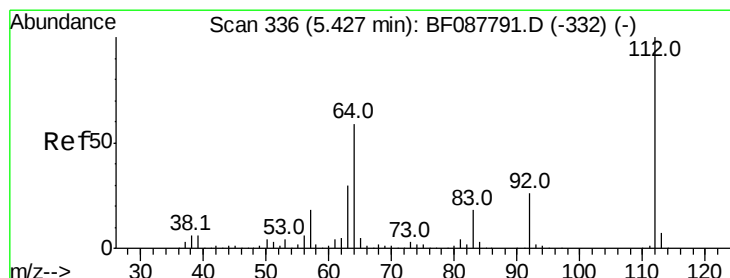
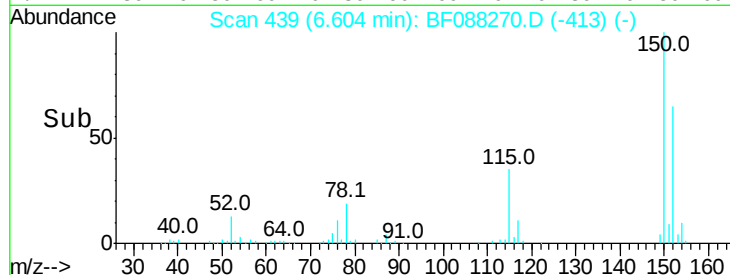
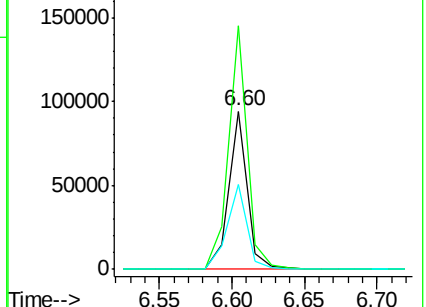
115 53.8 39.6 59.4



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: 134.45 ng

RT: 5.19 min Scan# 315

Delta R.T. 0.01 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

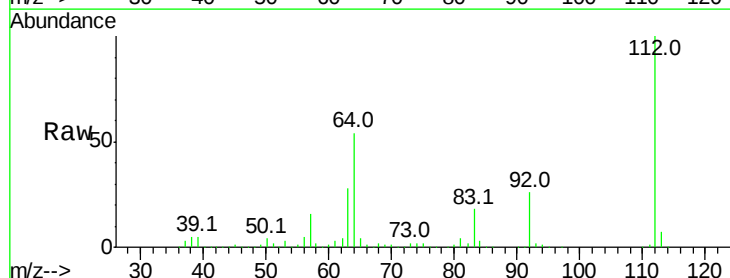
Tgt Ion:112 Resp: 656978

Ion Ratio Lower Upper

112 100

64 54.1 42.2 63.2

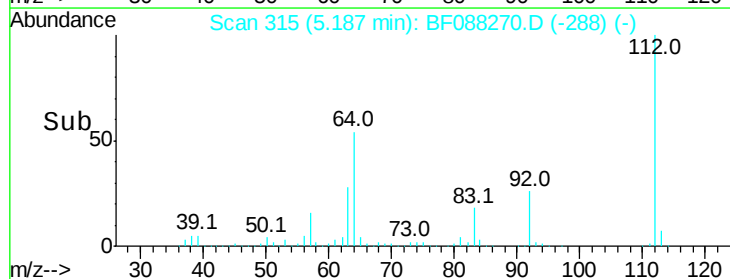
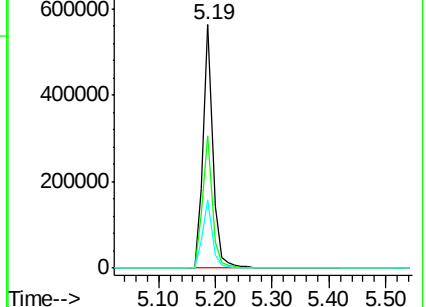
63 28.2 21.8 32.8

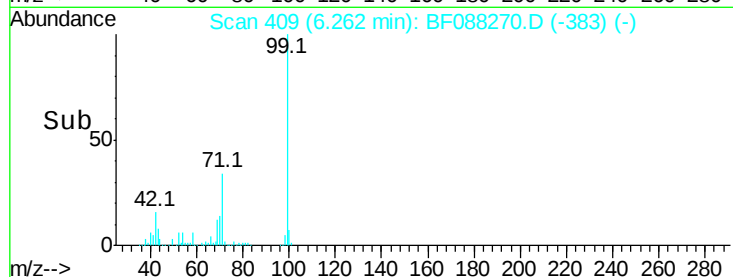
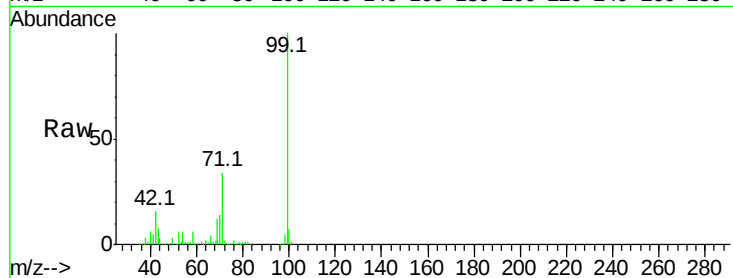
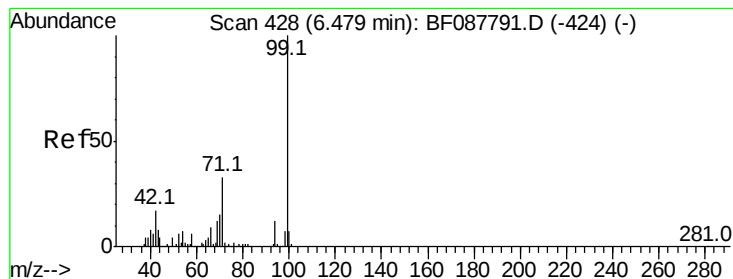


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 147.35 ng

RT: 6.26 min Scan# 409

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

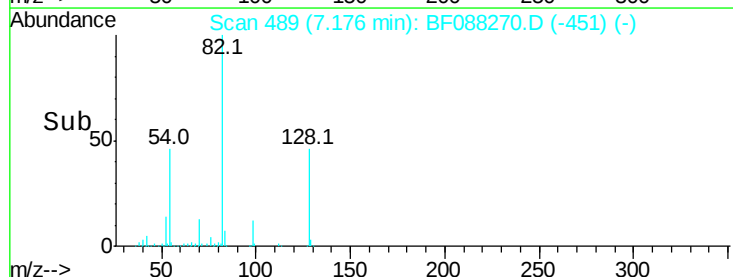
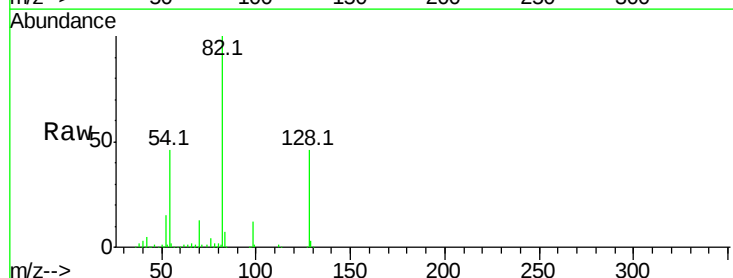
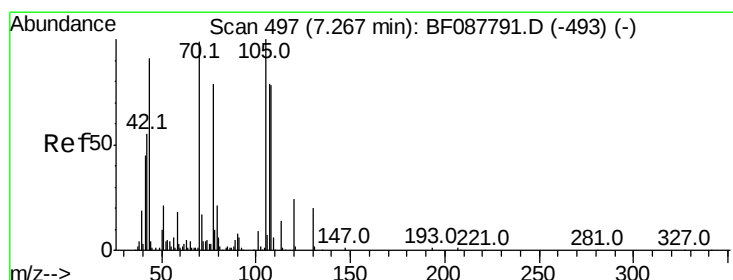
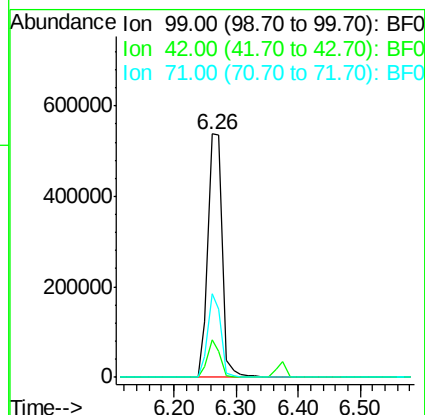
Tot Ion: 99 Resp: 872581

Ion Ratio Lower Upper

99 100

42 15.5 12.2 18.2

71 34.2 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 16.19 ng

RT: 7.18 min Scan# 489

Delta R.T. 0.14 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Tgt Ion: 70 Resp: 61332

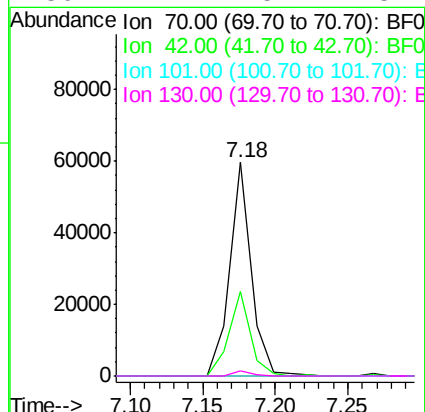
Ion Ratio Lower Upper

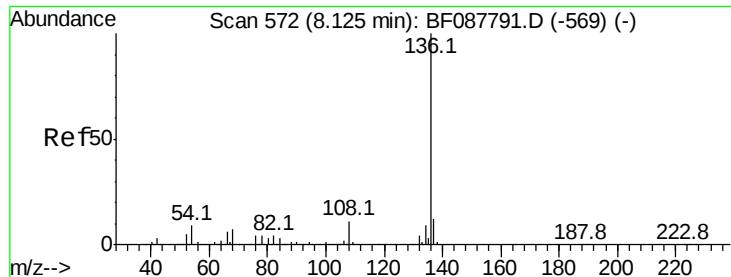
70 100

42 39.8 49.6 74.4#

101 0.0 7.1 10.7#

130 2.2 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 314446

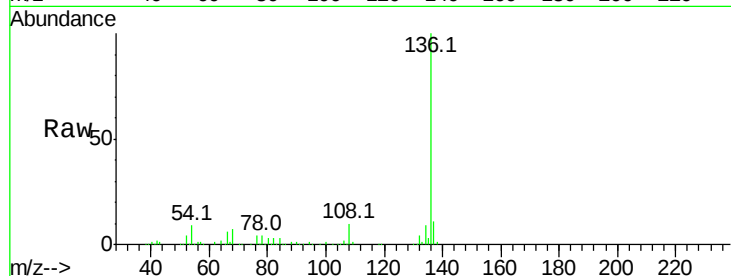
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 8.7 6.6 10.0

68 7.0 5.1 7.7

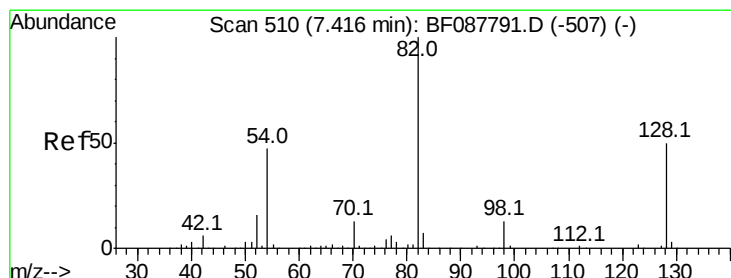
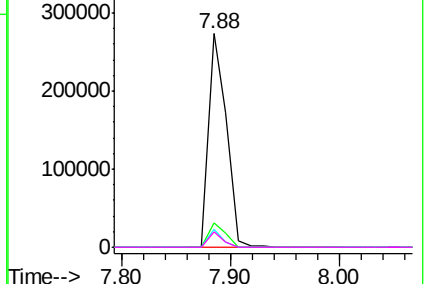
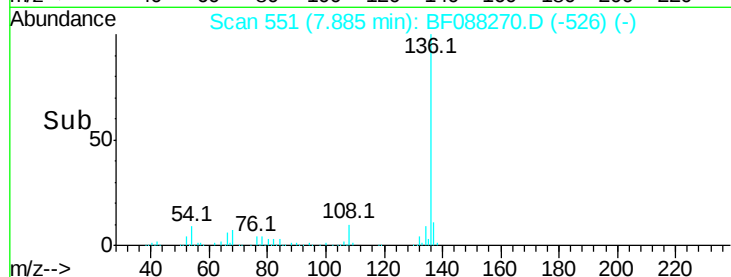


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 87.06 ng

RT: 7.18 min Scan# 489

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

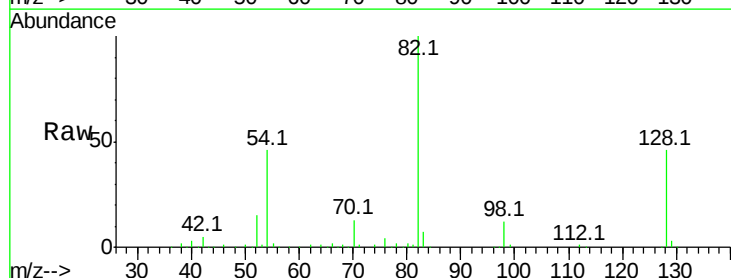
Tgt Ion: 82 Resp: 468809

Ion Ratio Lower Upper

82 100

128 45.9 35.9 53.9

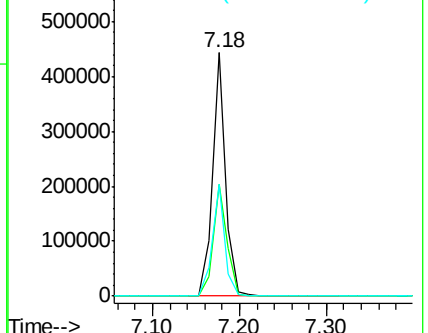
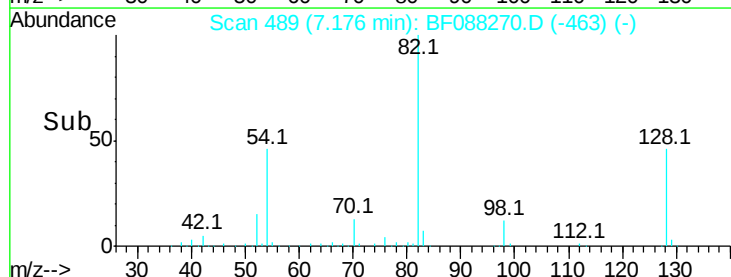
54 46.1 40.9 61.3

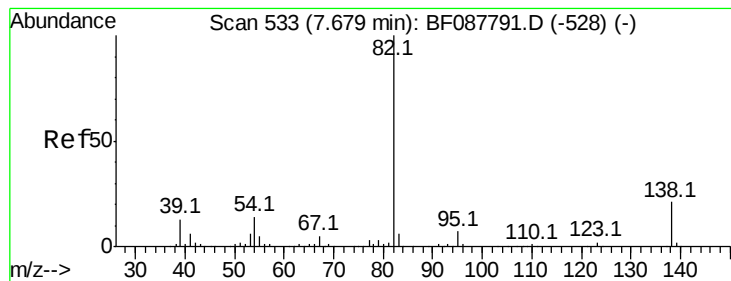


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 47.00 ng

RT: 7.18 min Scan# 489

Delta R.T. -0.26 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

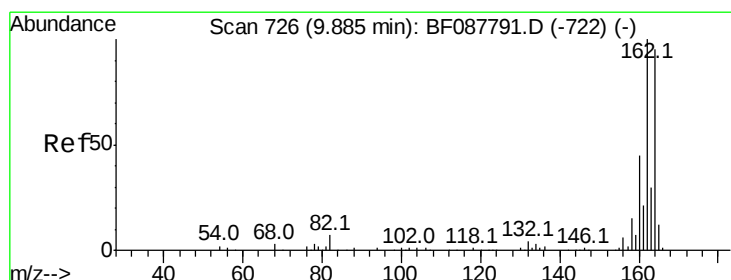
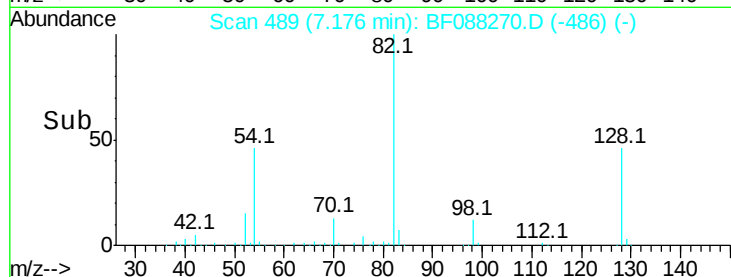
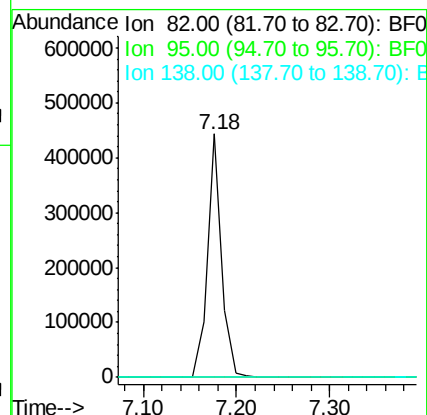
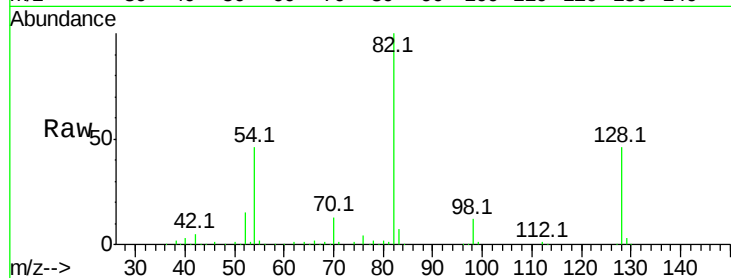
Tot Ion: 82 Resp: 468799

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

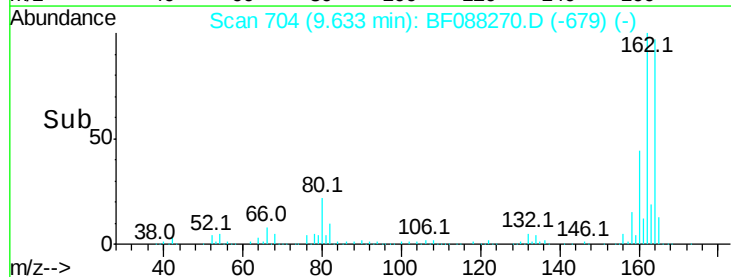
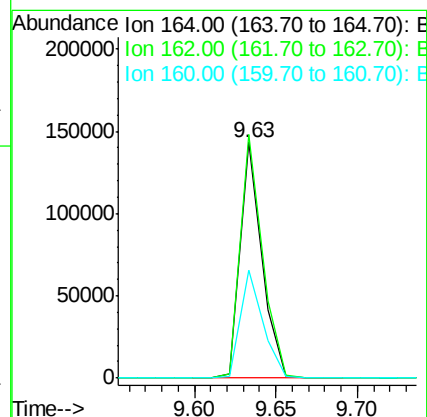
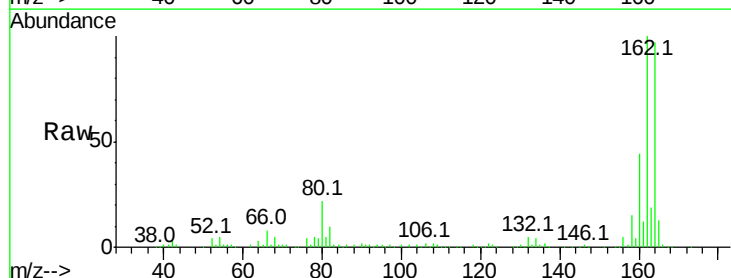
Tgt Ion:164 Resp: 129468

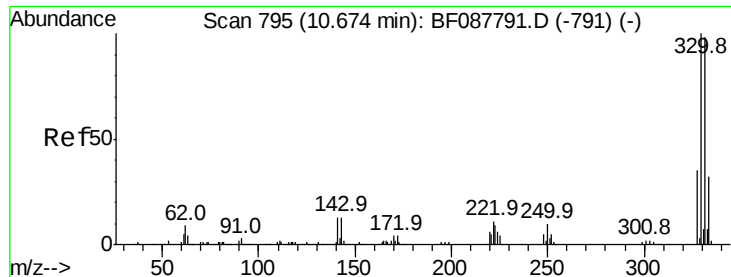
Ion Ratio Lower Upper

164 100

162 103.3 85.4 128.2

160 45.8 39.5 59.3

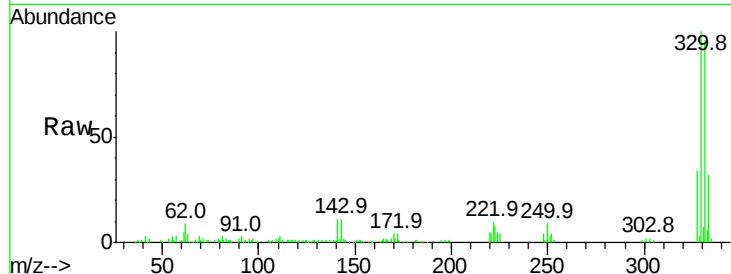




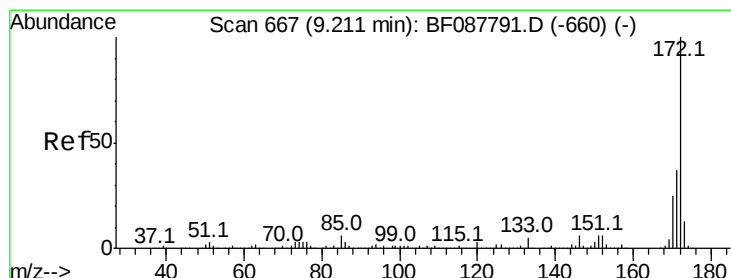
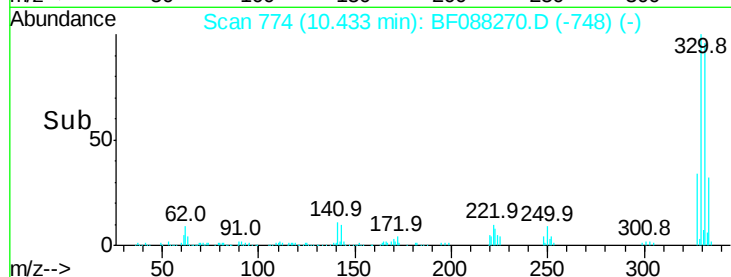
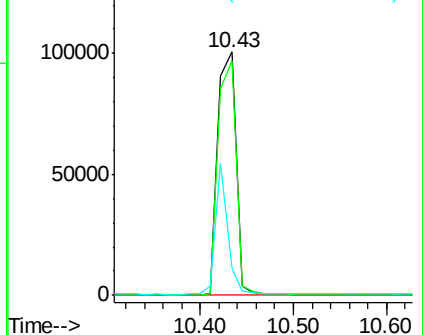
#41
 2,4,6-Tribromophenol
 Concen: 100.61 ng
 RT: 10.43 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	0.0	0.0#
141	36.4	0.0	0.0#

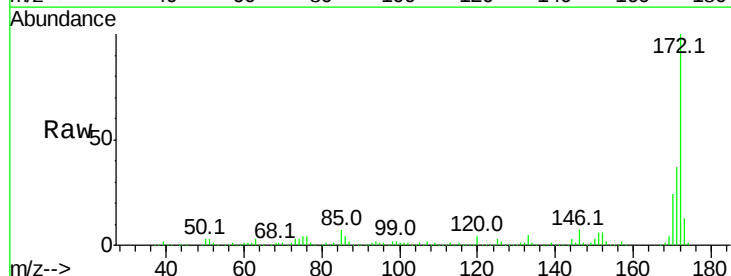


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

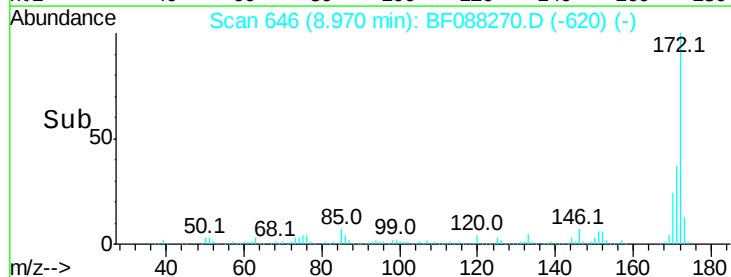
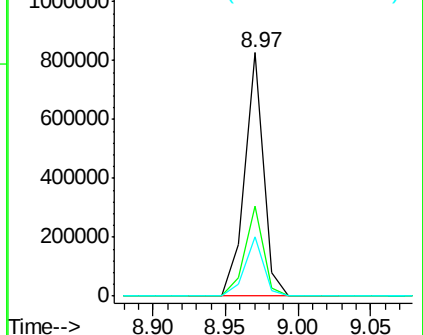


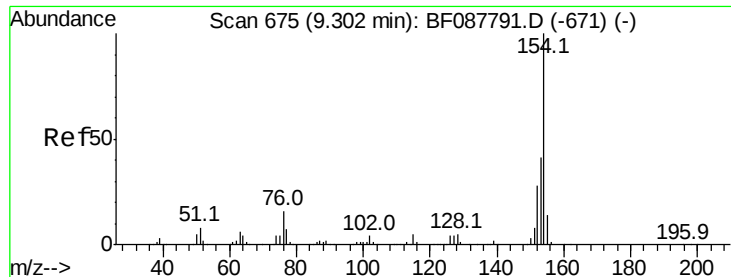
#44
 2-Fluorobiphenyl
 Concen: 90.88 ng
 RT: 8.97 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.6	43.0
170	24.5	19.2	28.8



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.07 min Scan# 655

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampled :

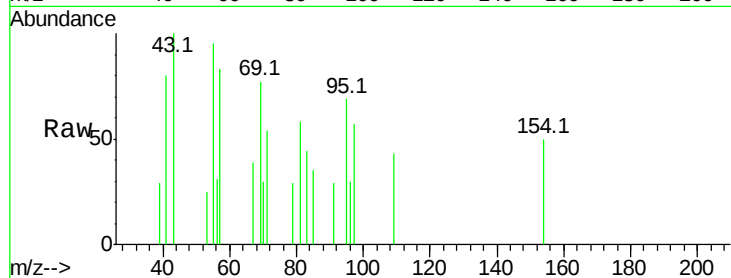
Tot Ion:154 Resp: 430

Ion Ratio Lower Upper

154 100

153 0.0 20.6 60.6#

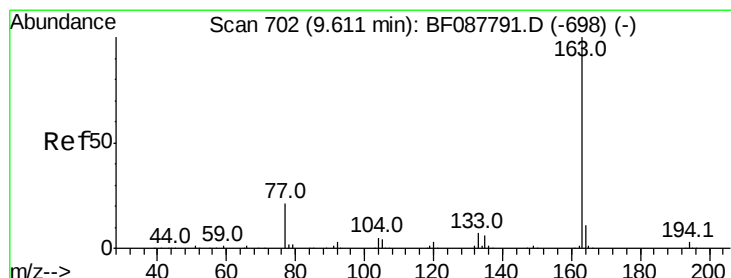
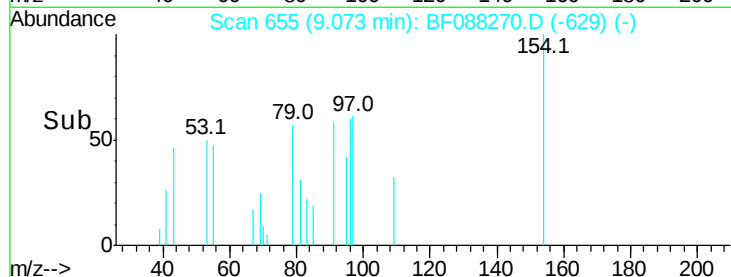
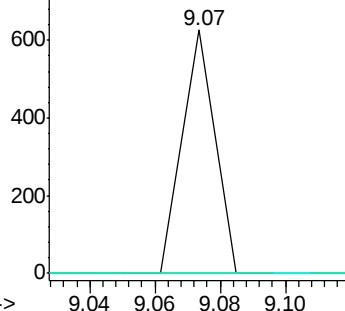
76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 10.29 ng

RT: 9.37 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

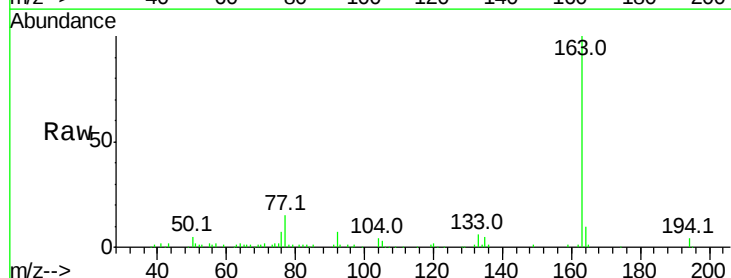
Tgt Ion:163 Resp: 96500

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

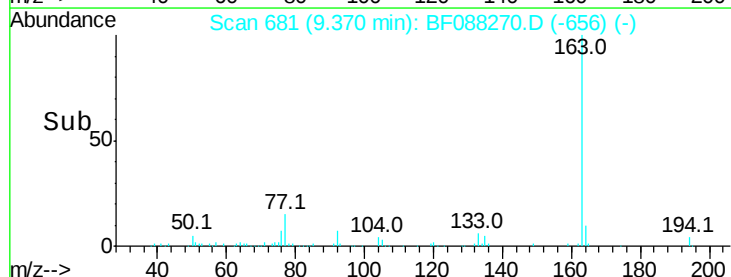
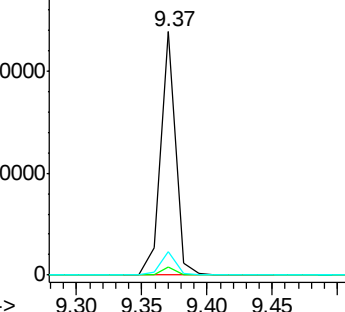
164 9.7 8.3 12.5

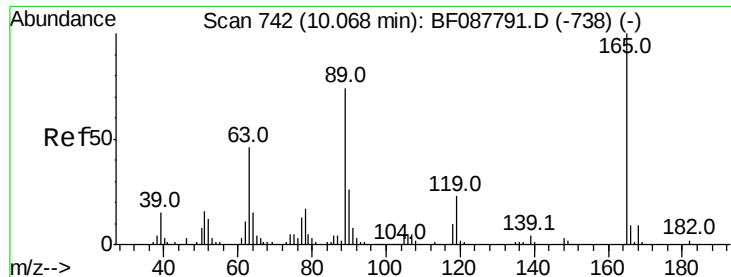


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

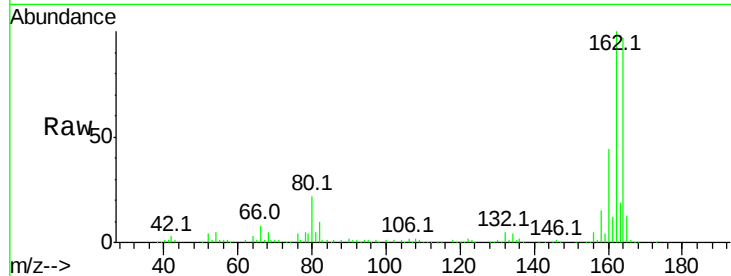




#56
2,4-Dinitrotoluene
Concen: 6.12 ng
RT: 9.63 min Scan# 704
Delta R.T. -0.22 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

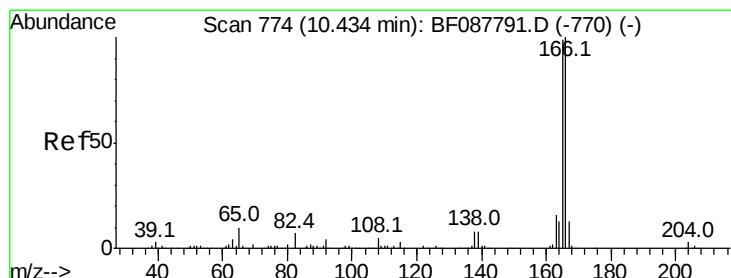
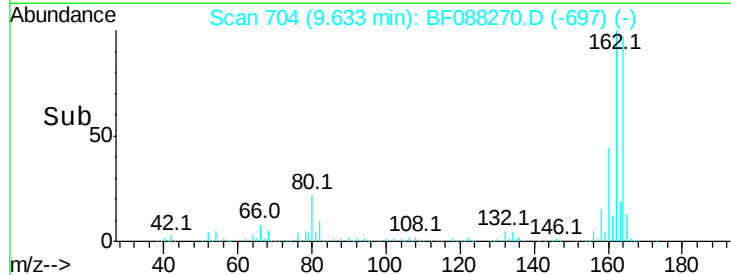
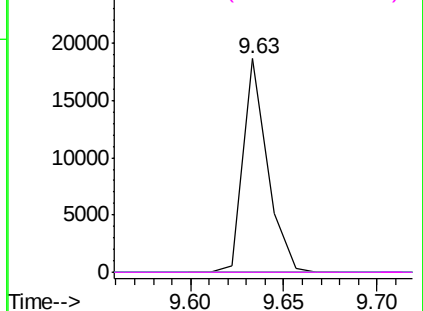


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

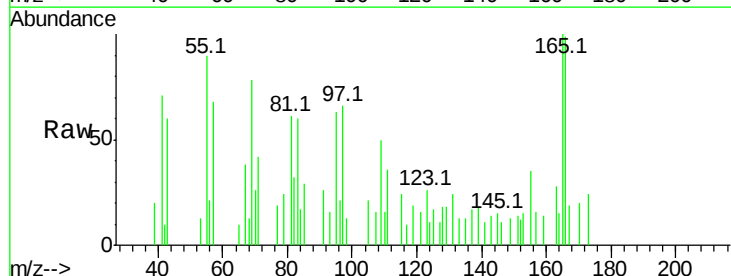
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: Below Cal
RT: 10.18 min Scan# 752
Delta R.T. -0.01 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

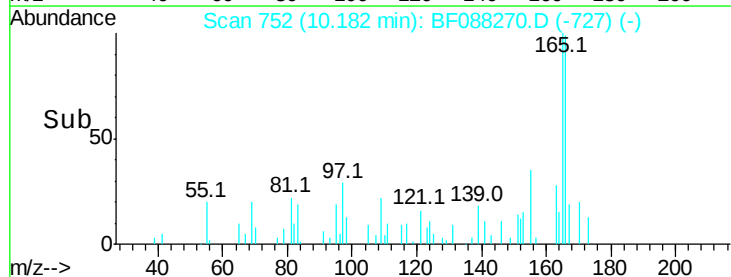
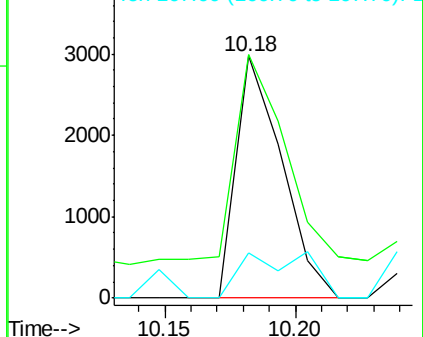
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.5	77.8	116.8
167	18.9	11.2	16.8#

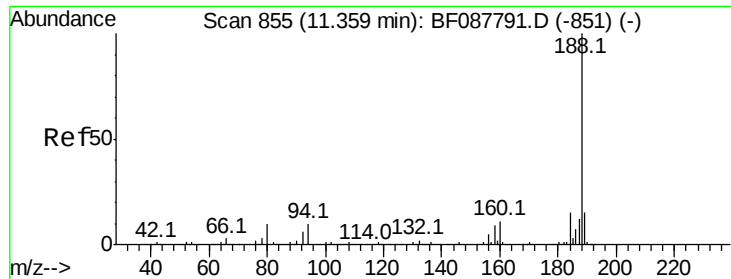


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

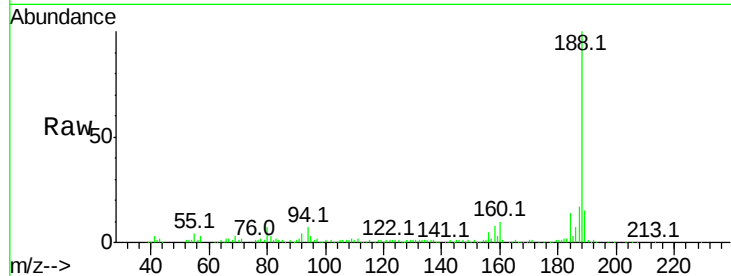
Tot Ion:188 Resp: 186120

Ion Ratio Lower Upper

188 100

94 7.4 9.0 13.6#

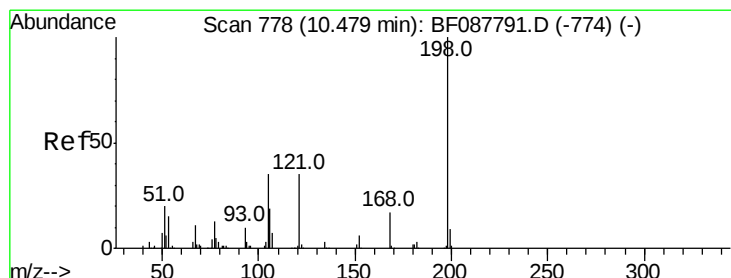
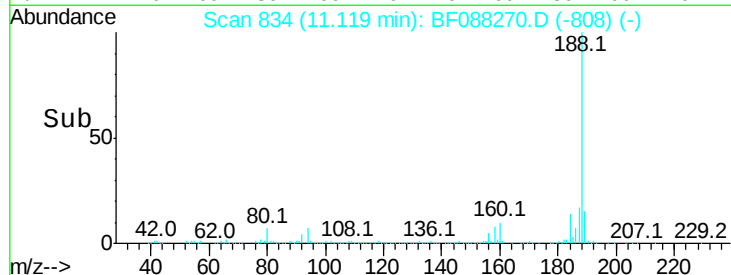
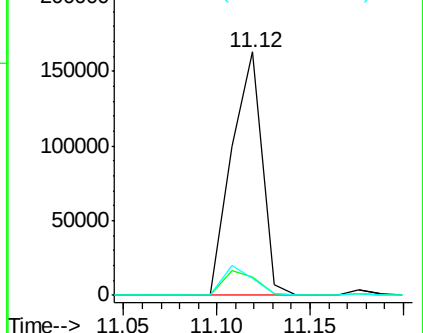
80 7.2 10.0 15.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#64

4,6-Dinitro-2-methylphenol

Concen: 2.36 ng

RT: 10.42 min Scan# 773

Delta R.T. 0.16 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

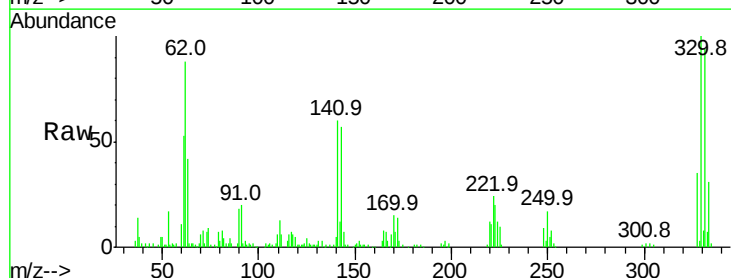
Tgt Ion:198 Resp: 245

Ion Ratio Lower Upper

198 100

51 215.1 39.6 79.6#

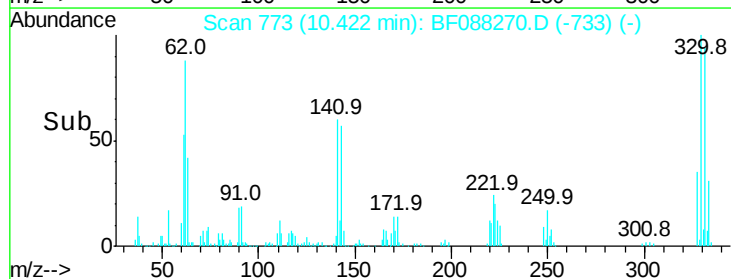
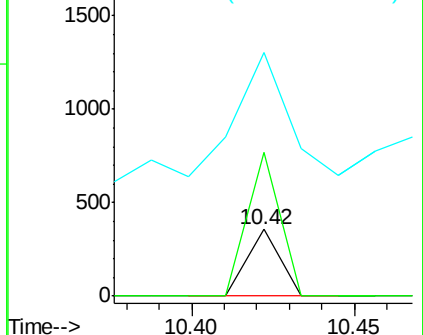
105 365.0 36.6 76.6#

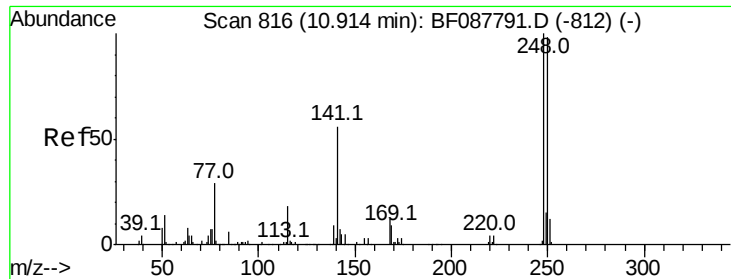


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

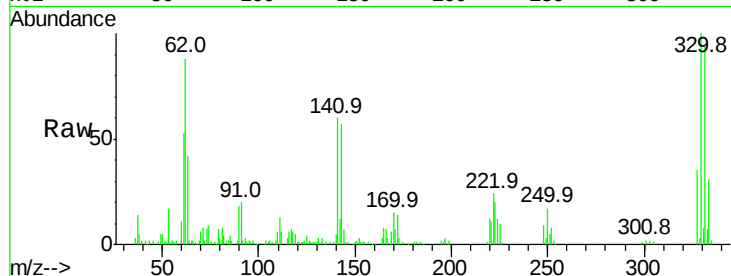




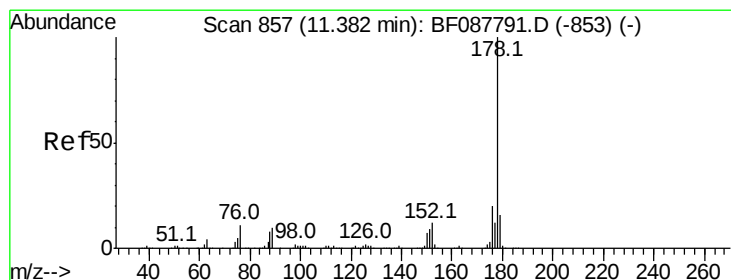
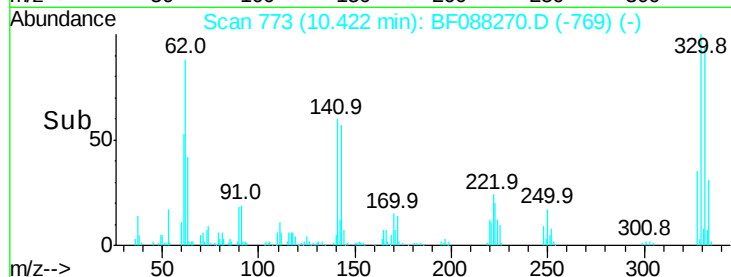
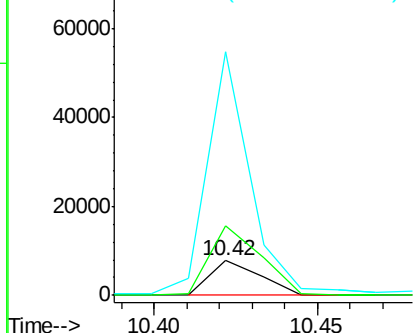
#66
 4-Bromophenyl-phenylether
 Concen: 4.14 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.25 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 8263
 Ion Ratio Lower Upper
 248 100
 250 200.5 77.1 115.7#
 141 699.8 50.6 76.0#

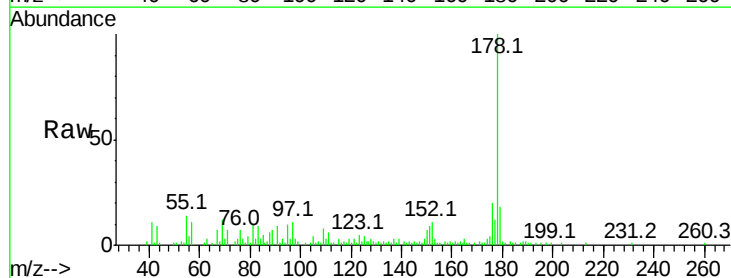


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

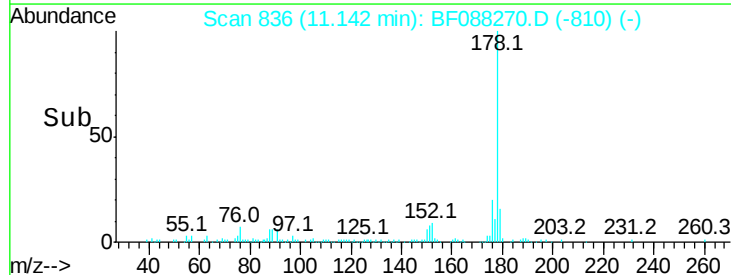
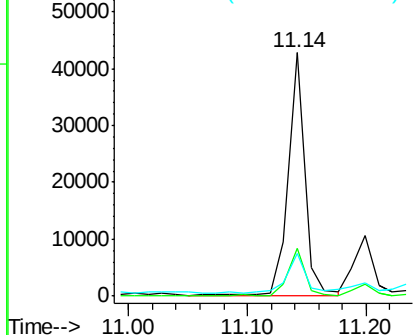


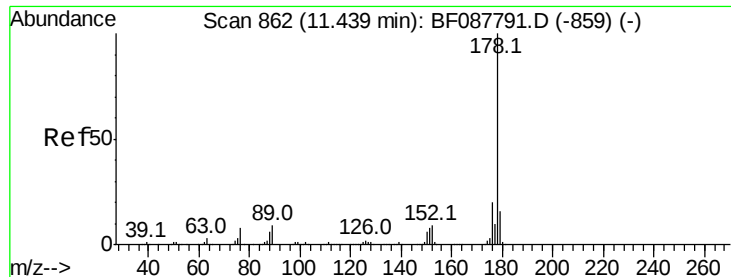
#70
 Phenanthrene
 Concen: 4.31 ng
 RT: 11.14 min Scan# 836
 Delta R.T. 0.00 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Tgt Ion:178 Resp: 42087
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.6
 179 17.8 13.0 19.4



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

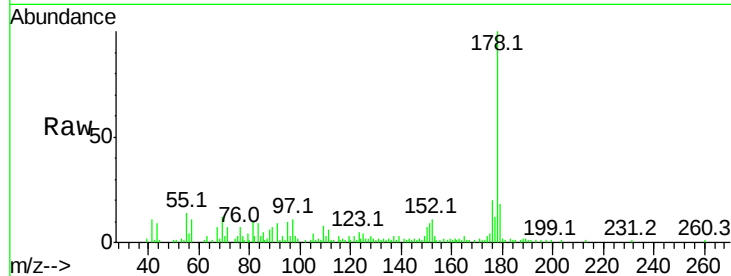




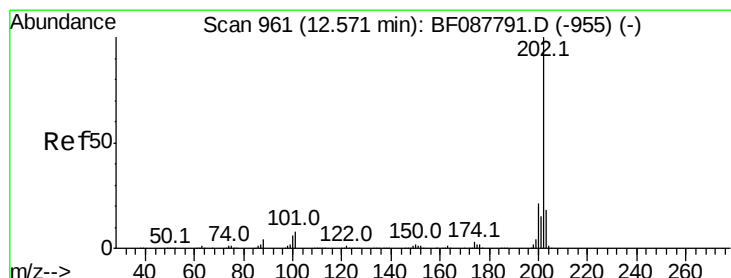
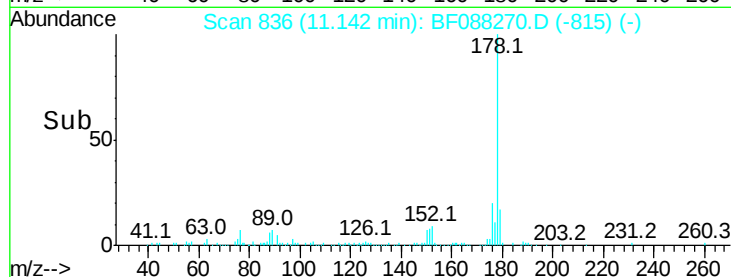
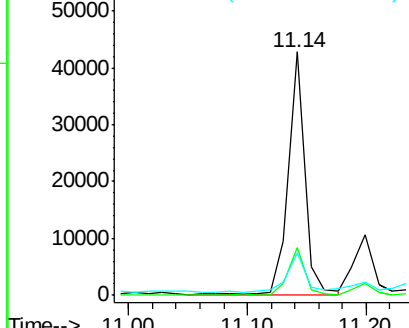
#71
 Anthracene
 Concen: 4.27 ng
 RT: 11.14 min Scan# 836
 Delta R.T. -0.06 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 42087
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.6 23.4
 179 17.8 12.8 19.2

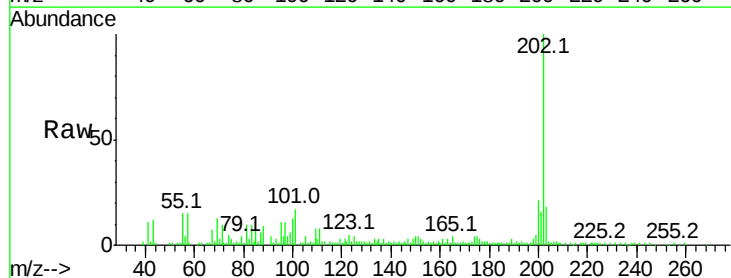


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

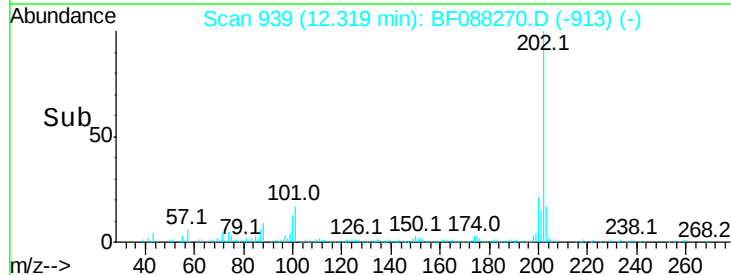
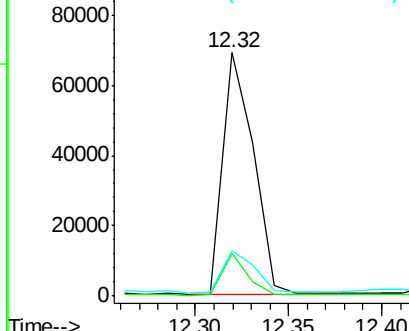


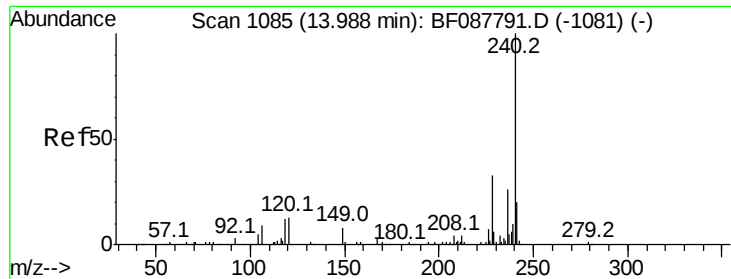
#74
 Fluoranthene
 Concen: 7.68 ng
 RT: 12.32 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Tgt Ion:202 Resp: 79142
 Ion Ratio Lower Upper
 202 100
 101 17.3 0.0 33.1
 203 18.5 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: 13.75 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

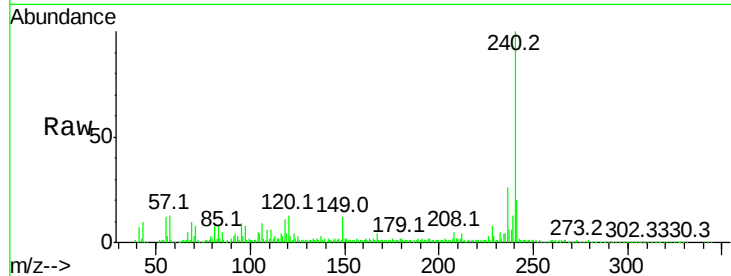
Tot Ion:240 Resp: 158611

Ion Ratio Lower Upper

240 100

120 13.0 6.8 10.2#

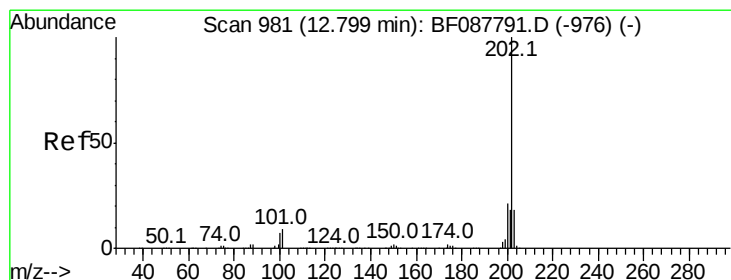
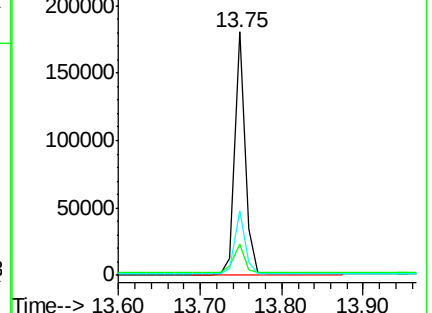
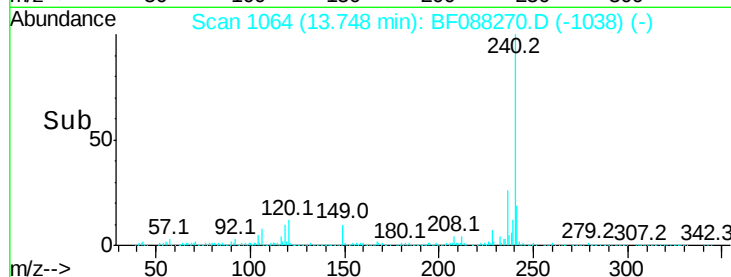
236 26.3 20.2 30.2



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: 6.87 ng

RT: 12.55 min Scan# 959

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

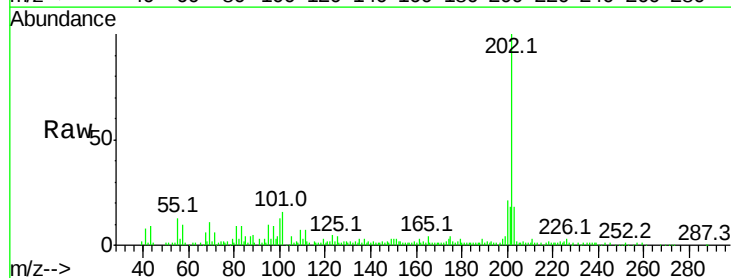
Tgt Ion:202 Resp: 80887

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

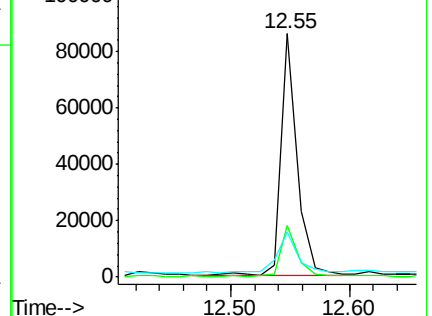
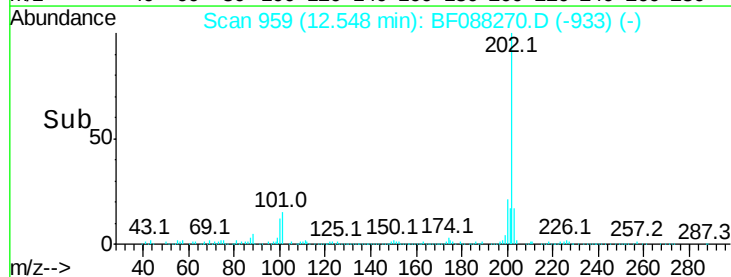
203 18.4 14.5 21.7

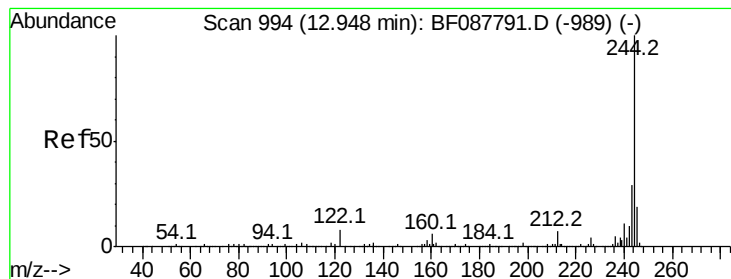


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 75.89 ng

RT: 12.70 min Scan# 972

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

Instrument :

BNA_F

ClientSampleId :

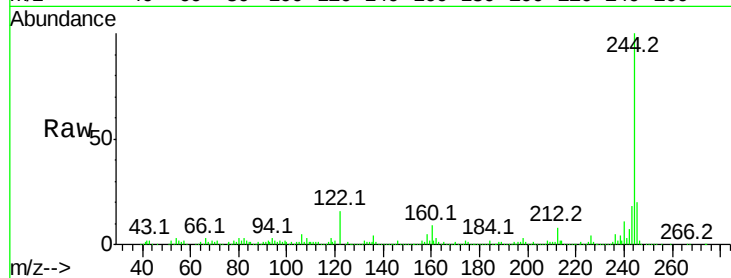
Tot Ion:244 Resp: 528991

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

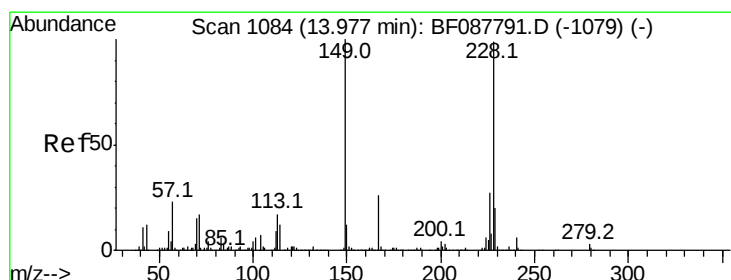
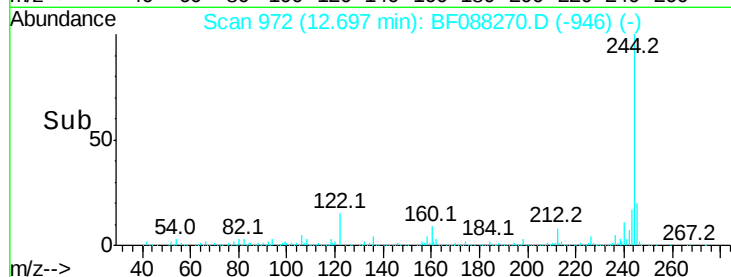
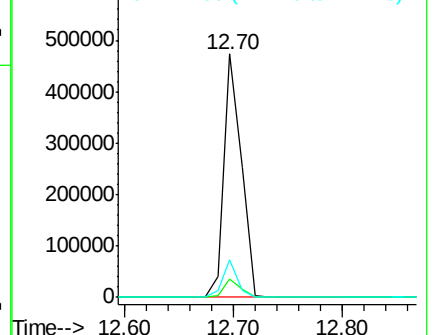
122 15.5 11.2 16.8



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: 5.55 ng

RT: 13.74 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BF088270.D

Acq: 23 Jun 2016 1:08

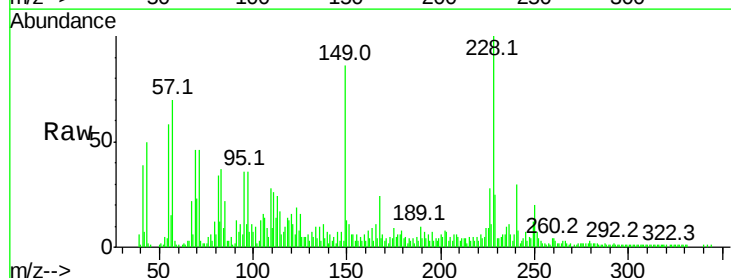
Tgt Ion:228 Resp: 50199

Ion Ratio Lower Upper

228 100

226 28.5 22.3 33.5

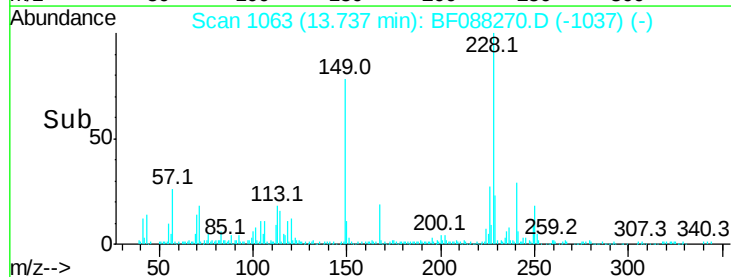
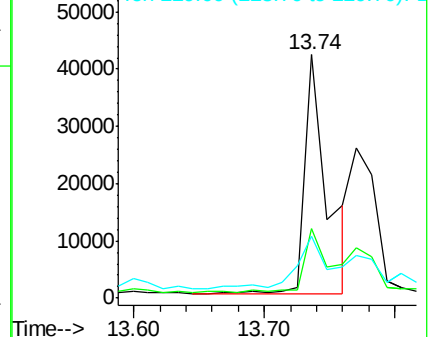
229 25.5 16.0 24.0#

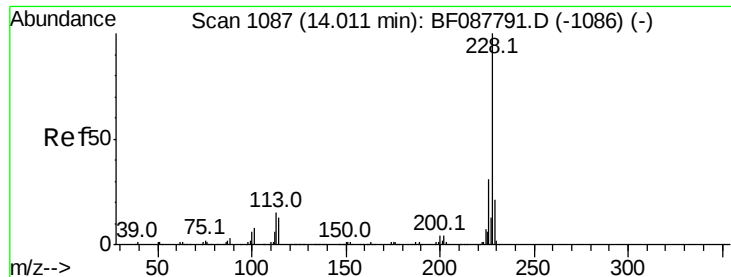


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

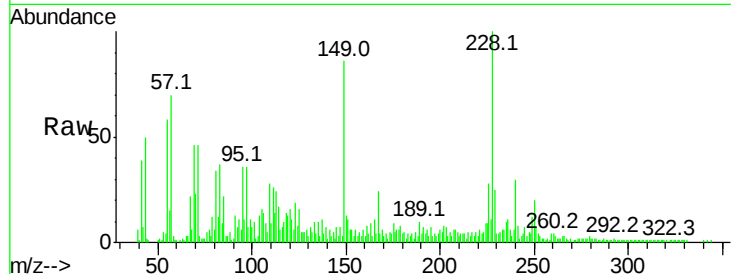




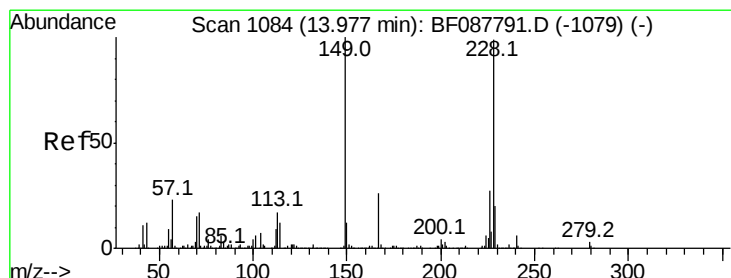
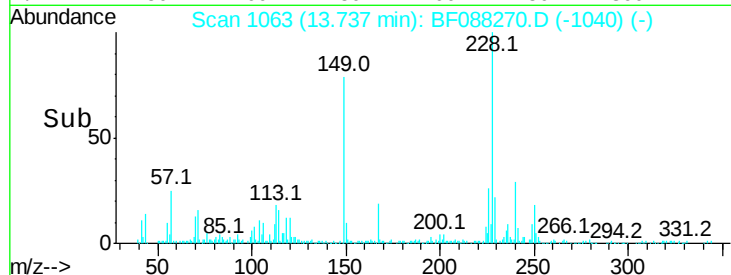
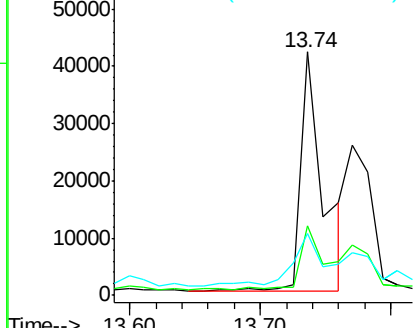
#82
Chrysene
Concen: 5.90 ng
RT: 13.74 min Scan# 1063
Delta R.T. -0.03 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Instrument :
BNA_F
ClientSampled :

Tot Ion:228 Resp: 50199
Ion Ratio Lower Upper
228 100
226 28.5 25.4 38.2
229 25.5 16.3 24.5#

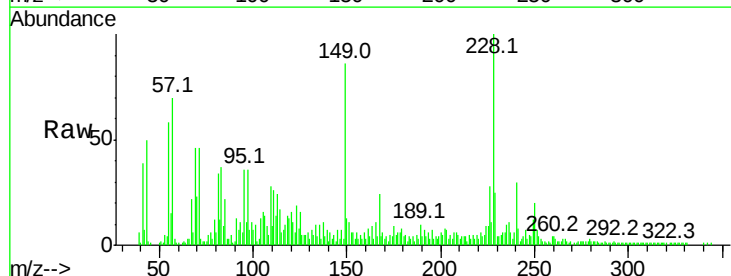


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

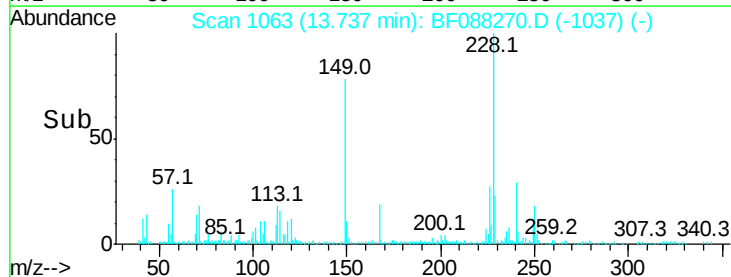
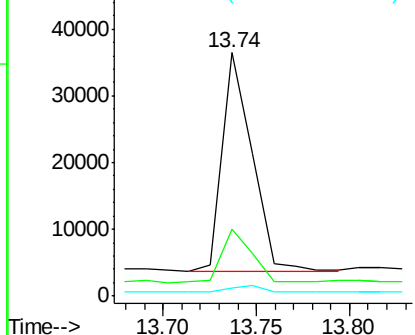


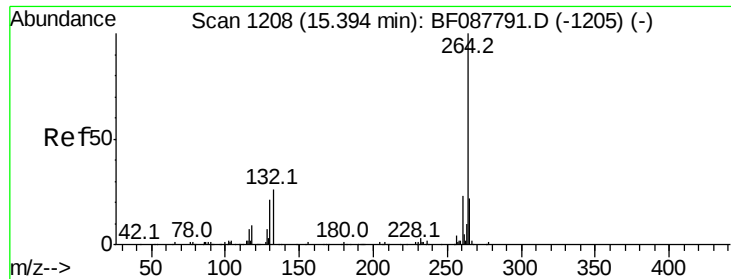
#83
Bis(2-ethylhexyl)phthalate
Concen: 5.84 ng
RT: 13.74 min Scan# 1063
Delta R.T. 0.00 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Tgt Ion:149 Resp: 36979
Ion Ratio Lower Upper
149 100
167 27.5 20.5 30.7
279 3.3 2.0 3.0#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E

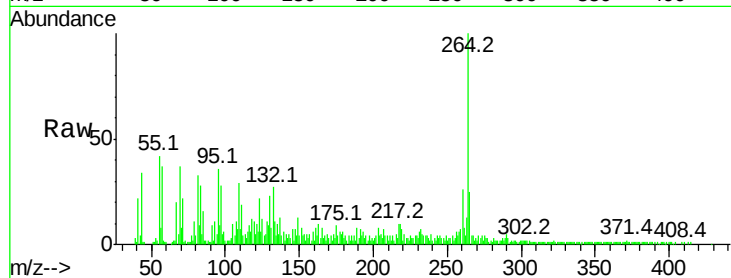




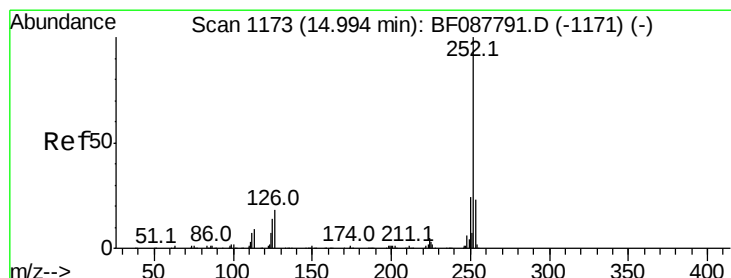
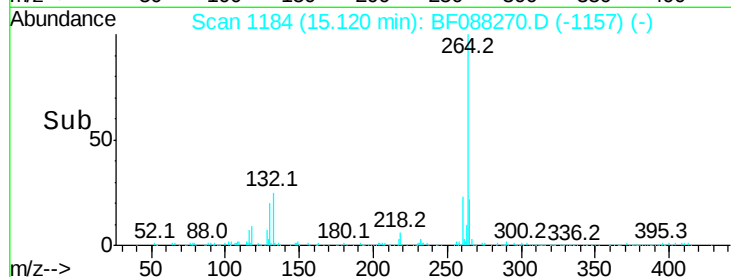
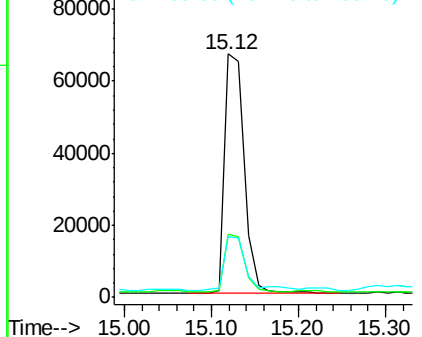
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. 0.01 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 105081
Ion Ratio Lower Upper
264 100
260 25.7 19.2 28.8
265 24.9 16.9 25.3

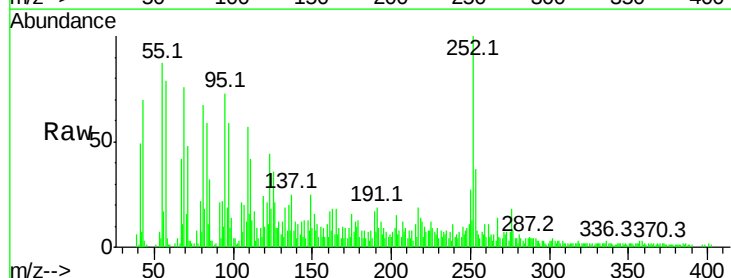


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

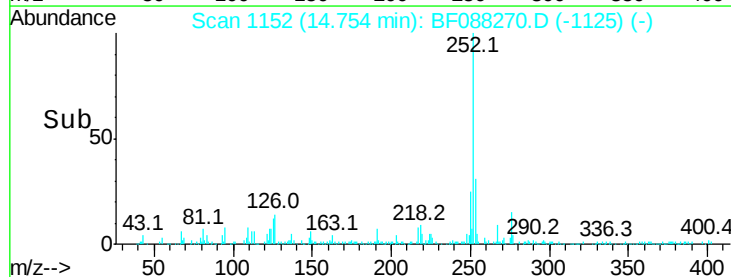
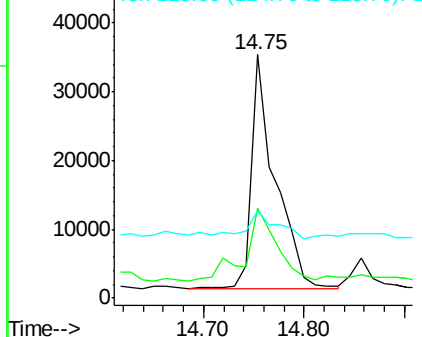


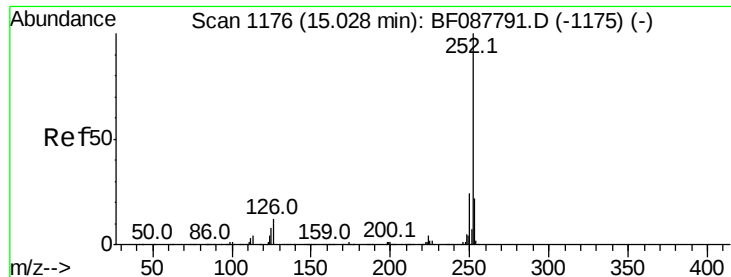
#87
Benzo(b)fluoranthene
Concen: 7.65 ng
RT: 14.75 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Tgt Ion:252 Resp: 56019
Ion Ratio Lower Upper
252 100
253 37.2 17.4 26.2#
125 36.1 7.1 10.7#



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

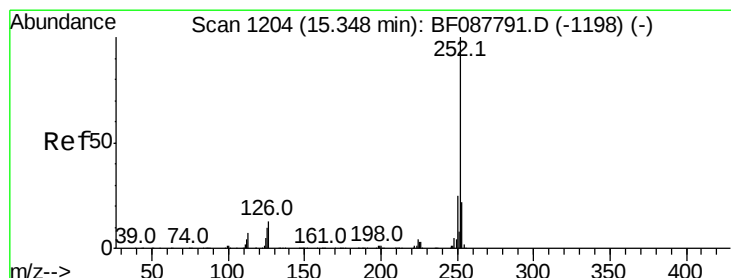
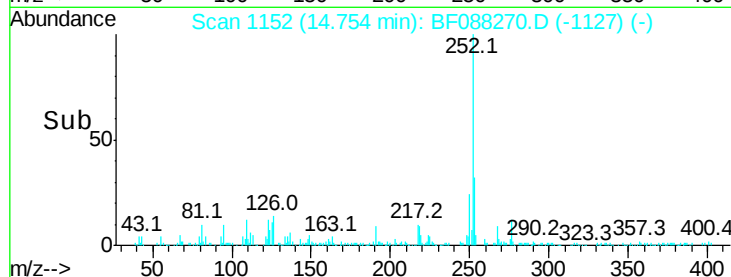
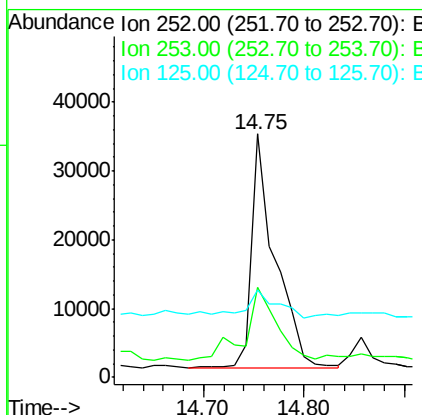
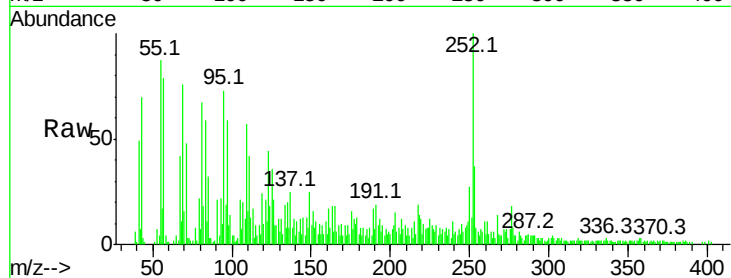




#88
Benzo(k)fluoranthene
Concen: 10.14 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.01 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

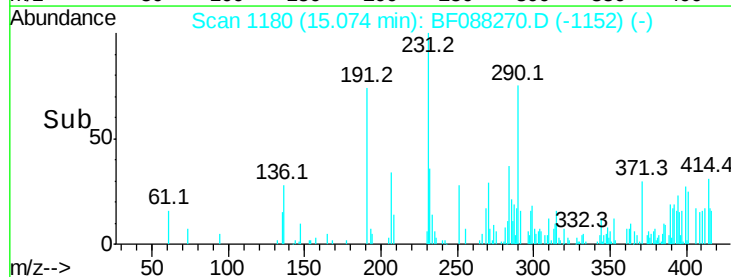
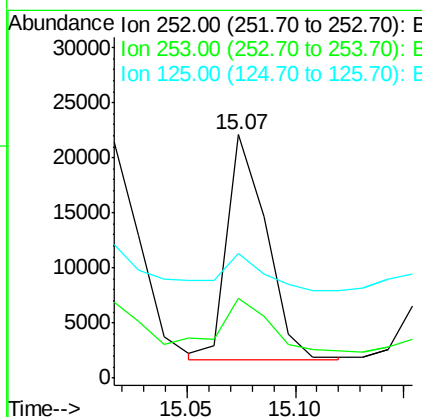
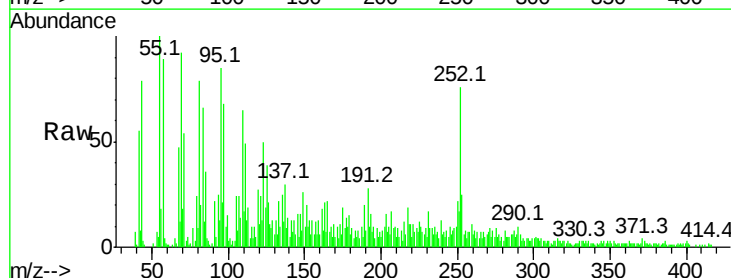
Instrument :
BNA_F
ClientSampleId :

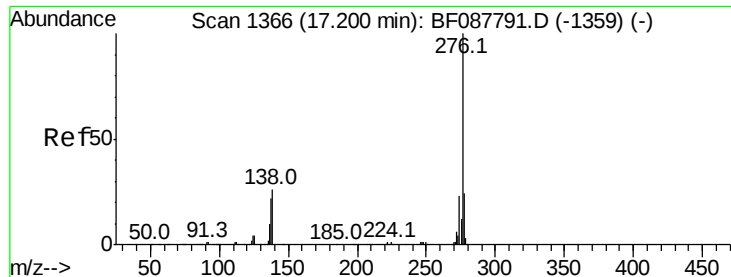
Tot Ion	Ratio	Lower	Upper
252	100		
253	37.2	18.0	27.0#
125	36.1	11.2	16.8#



#89
Benzo(a)pyrene
Concen: 4.33 ng
RT: 15.07 min Scan# 1180
Delta R.T. 0.02 min
Lab File: BF088270.D
Acq: 23 Jun 2016 1:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.9	17.9	26.9#
125	51.1	12.5	18.7#





#91
 Benzo(a,h,i)perylene
 Concen: 2.91 ng
 RT: 16.81 min Scan# 1332
 Delta R.T. 0.07 min
 Lab File: BF088270.D
 Acq: 23 Jun 2016 1:08

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	37.2	18.9	28.3	#
138	42.7	21.4	32.2	#

