

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110215\
 Data File : BF082637.D
 Acq On : 2 Nov 2015 18:08
 Operator : UM/IZ
 Sample : G4227-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTYSF-002

Quant Time: Nov 03 02:28:58 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 31 00:17:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	231772	20.00	ng	-0.02
21) Naphthalene-d8	8.17	136	776947	20.00	ng	-0.02
38) Acenaphthene-d10	9.93	164	380960	20.00	ng	-0.02
63) Phenanthrene-d10	11.41	188	709706	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	519892	20.00	ng	-0.02
86) Perylene-d12	15.51	264	445448	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	2145533	139.42	ng	0.00
7) Phenol-d6	6.52	99	2527985	123.66	ng	-0.01
23) Nitrobenzene-d5	7.45	82	1663649	87.44	ng	-0.02
41) 2,4,6-Tribromophenol	10.72	330	610519	146.43	ng	-0.02
44) 2-Fluorobiphenyl	9.25	172	2578797	96.11	ng	-0.02
78) Terphenyl-d14	13.01	244	2428971	102.25	ng	-0.01

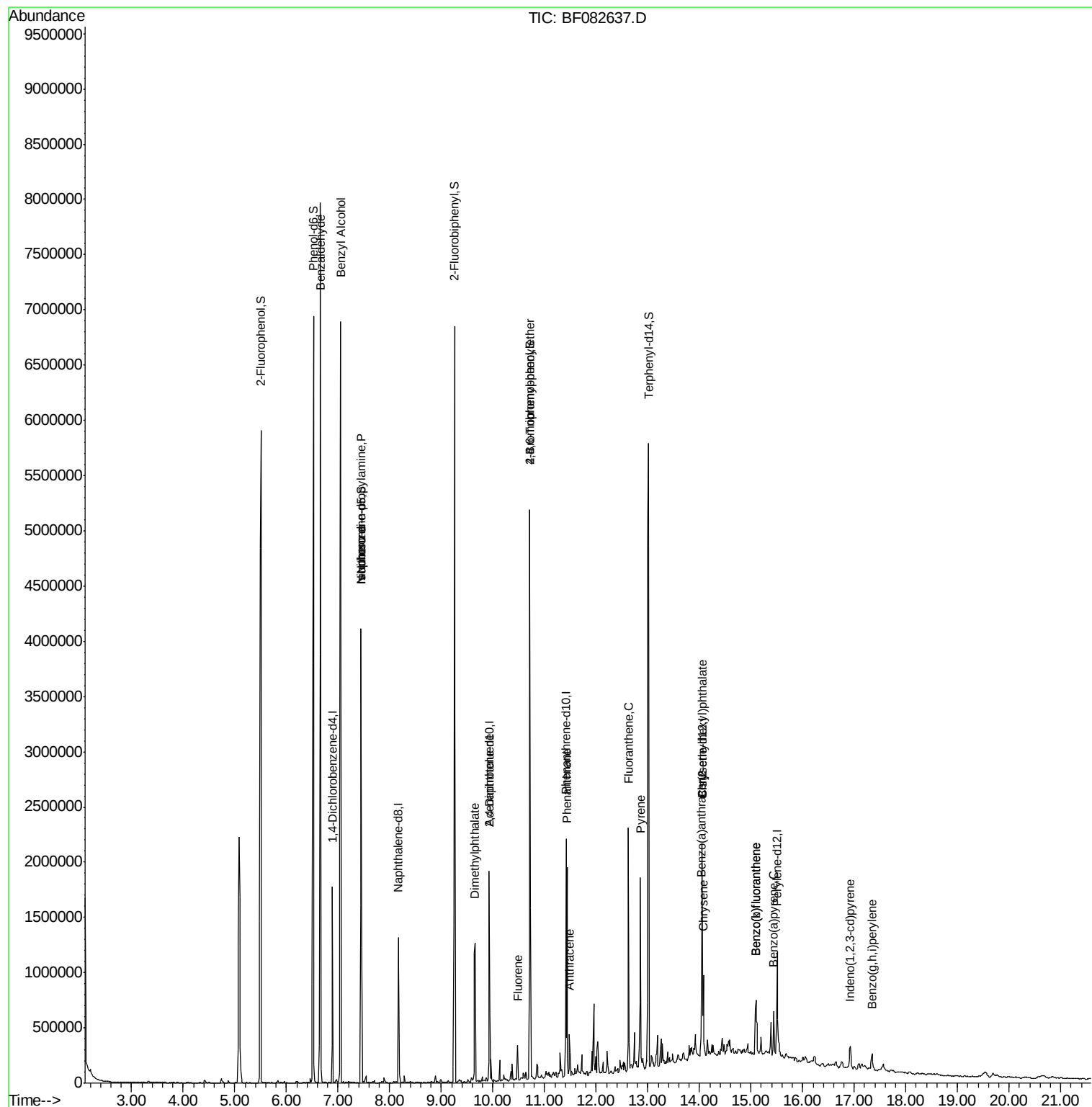
Target Compounds						Qvalue
9) Benzaldehyde	6.66	77	63792	4.57	ng	88
15) Benzyl Alcohol	7.05	79	42557	2.23	ng	# 52
19) n-Nitroso-di-n-propylamine	7.45	70	234328	15.12	ng	# 74
25) Isophorone	7.45	82	1249959	35.71	ng	# 70
49) Dimethylphthalate	9.65	163	749236	24.08	ng	98
56) 2,4-Dinitrotoluene	9.93	165	48454	5.56	ng	# 16
57) Fluorene	10.48	166	79754	2.86	ng	97
66) 4-Bromophenyl-phenylether	10.72	248	40065	4.98	ng	# 1
70) Phenanthrene	11.44	178	619651	15.48	ng	97
71) Anthracene	11.48	178	172551	4.28	ng	96
74) Fluoranthene	12.63	202	789593	19.30	ng	98
77) Pyrene	12.85	202	685767	17.81	ng	98
80) Benzo(a)anthracene	14.04	228	376452	11.40	ng	100
82) Chrysene	14.08	228	236085	7.89	ng	96
83) Bis(2-ethylhexyl)phthalate	14.05	149	52623	2.41	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.92	276	147848	5.99	ng	92
87) Benzo(b)fluoranthene	15.09	252	431651	14.05	ng	# 99
88) Benzo(k)fluoranthene	15.09	252	431651	18.45	ng	# 98
89) Benzo(a)pyrene	15.44	252	239175	9.89	ng	93
91) Benzo(g,h,i)perylene	17.35	276	139453	6.38	ng	97

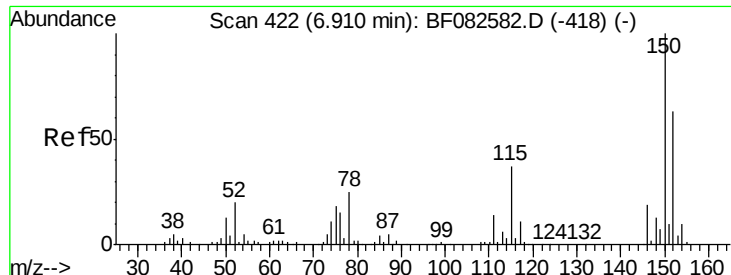
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

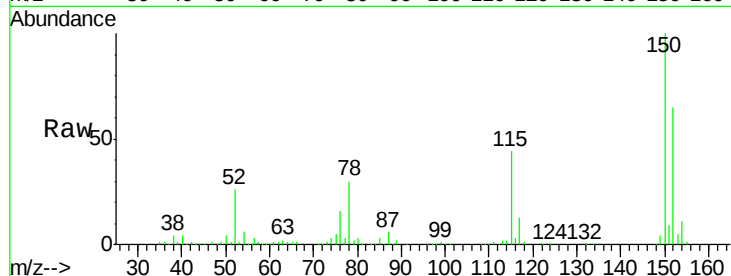
Tgt Ion:152 Resp: 231772

Ion Ratio Lower Upper

152 100

150 153.4 127.0 190.4

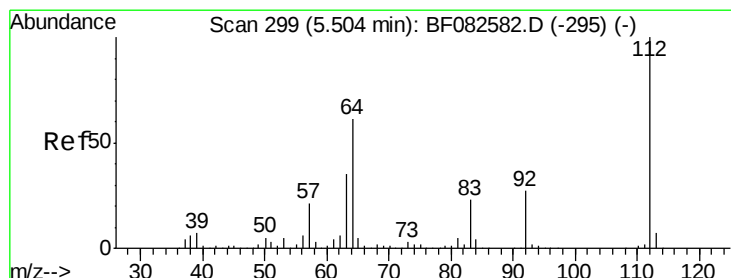
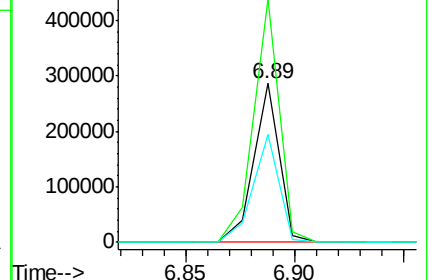
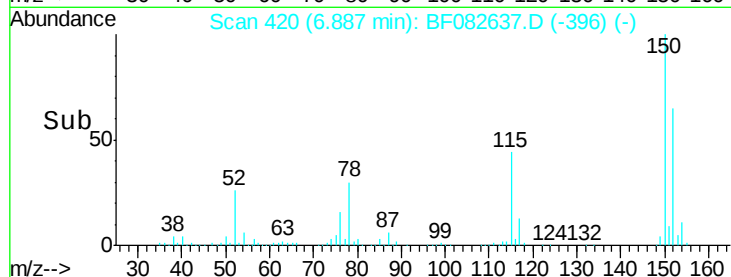
115 67.7 47.0 70.6



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: 139.42 ng

RT: 5.50 min Scan# 299

Delta R.T. 0.00 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

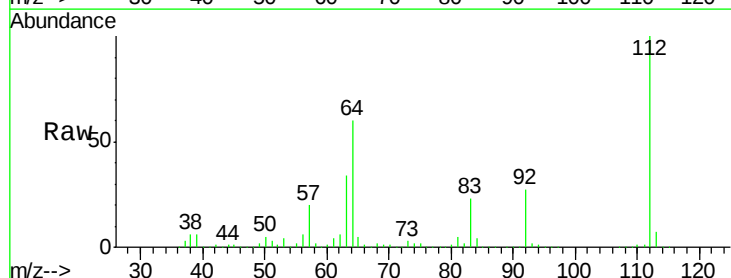
Tgt Ion:112 Resp: 2145533

Ion Ratio Lower Upper

112 100

64 59.9 48.9 73.3

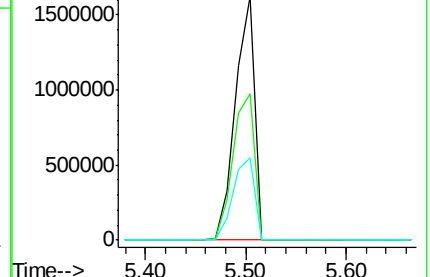
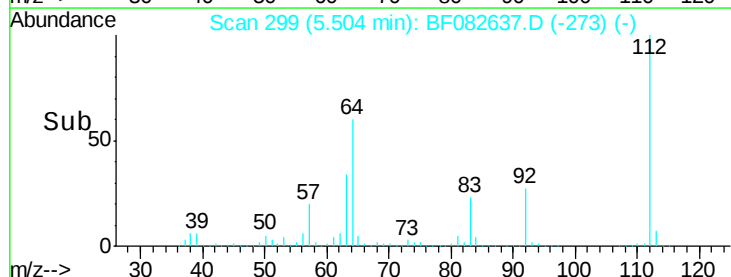
63 33.7 28.1 42.1



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: 123.66 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

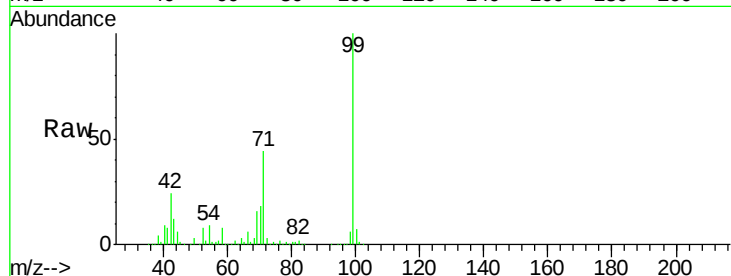
Tgt Ion: 99 Resp: 2527985

Ion Ratio Lower Upper

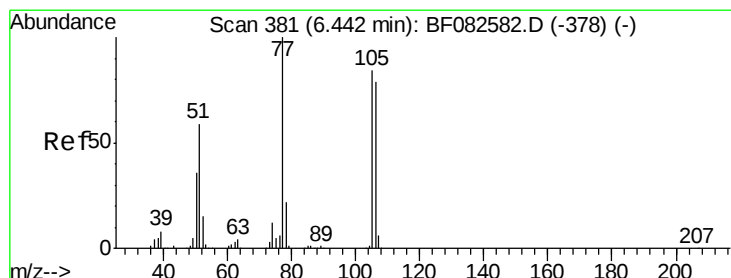
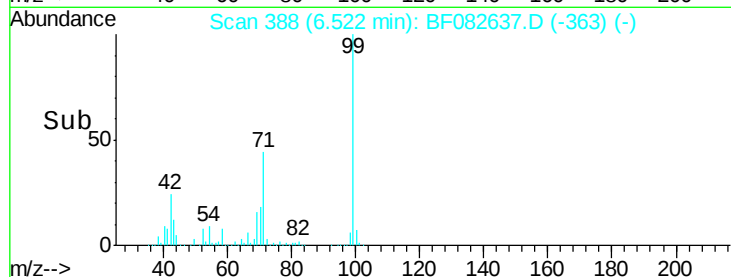
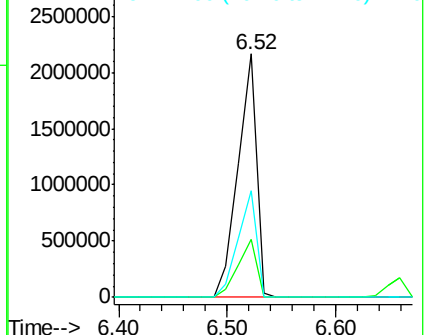
99 100

42 23.6 19.2 28.8

71 44.0 35.0 52.4



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.57 ng

RT: 6.66 min Scan# 400

Delta R.T. 0.22 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

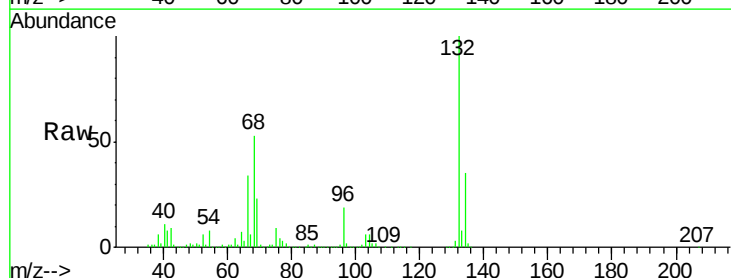
Tgt Ion: 77 Resp: 63792

Ion Ratio Lower Upper

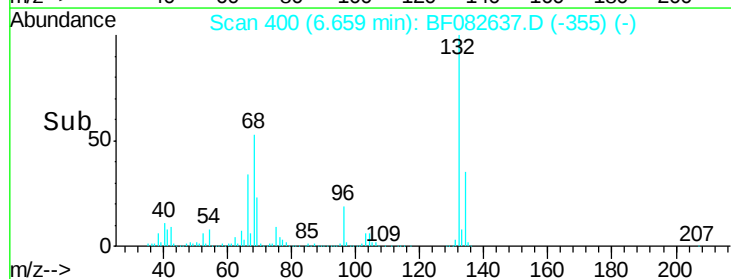
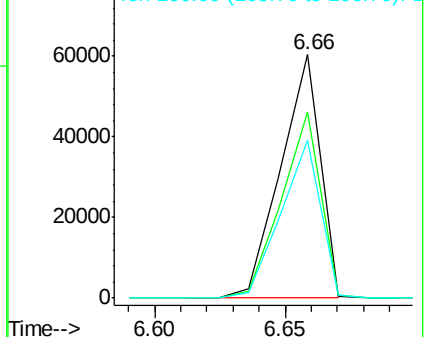
77 100

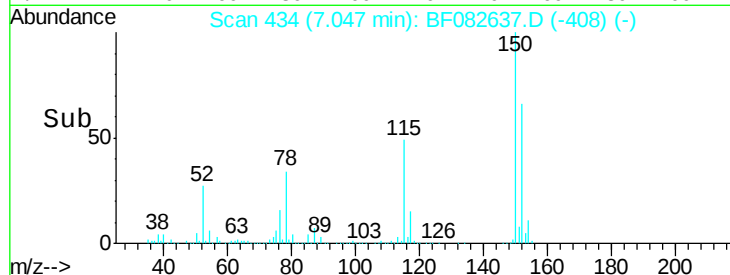
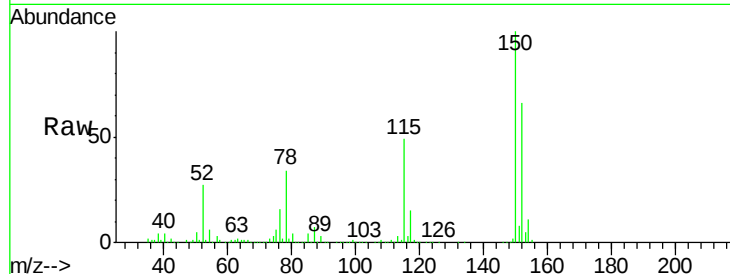
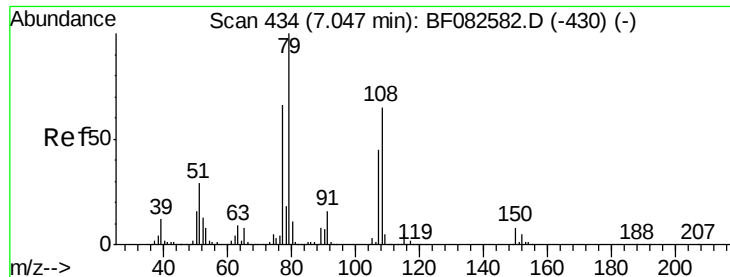
105 76.3 63.5 103.5

106 64.8 59.3 99.3



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): BF0
Ion 106.00 (105.70 to 106.70): BF0

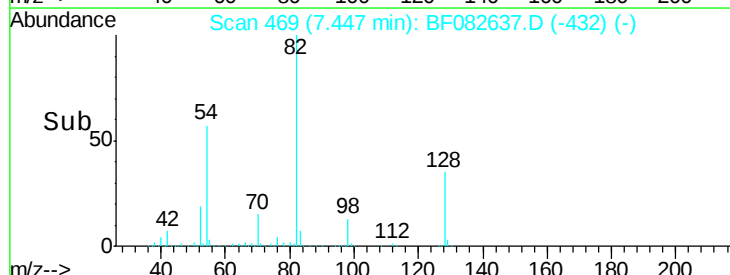
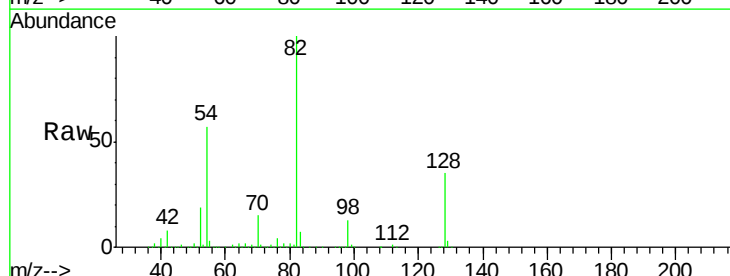
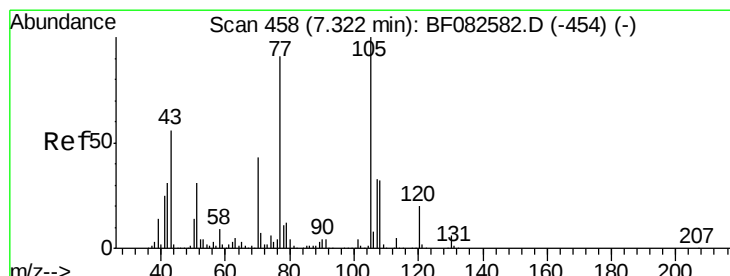
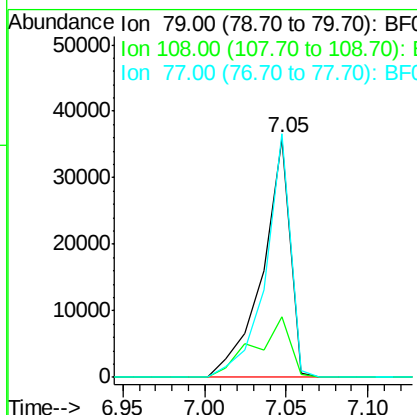




#15
Benzyl Alcohol
Concen: 2.23 ng
RT: 7.05 min Scan# 434
Delta R.T. 0.00 min
Lab File: BF082637.D
Acq: 2 Nov 2015 18:08

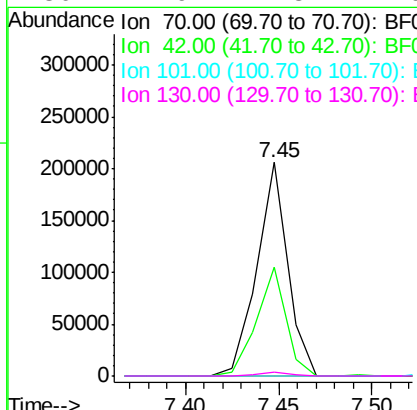
Instrument :
BNA_F
ClientSampleId :
LIBERTYSF-002

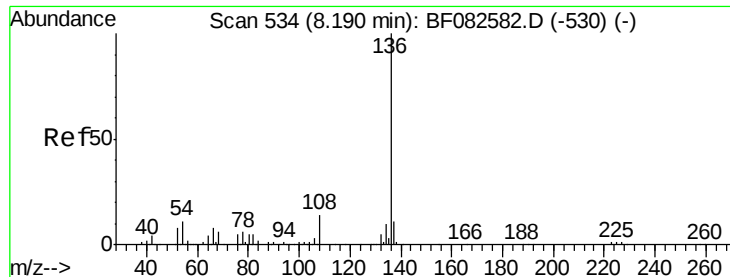
Tgt Ion: 79 Resp: 42557
Ion Ratio Lower Upper
79 100
108 25.5 52.2 78.4#
77 101.8 52.7 79.1#



#19
n-Nitroso-di-n-propylamine
Concen: 15.12 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.13 min
Lab File: BF082637.D
Acq: 2 Nov 2015 18:08

Tgt Ion: 70 Resp: 234328
Ion Ratio Lower Upper
70 100
42 51.0 57.7 86.5#
101 0.0 7.0 10.6#
130 1.9 11.8 17.6#

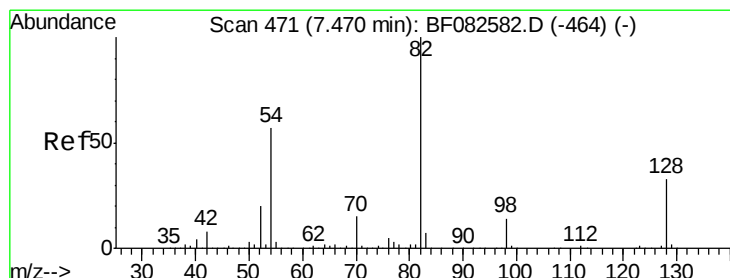
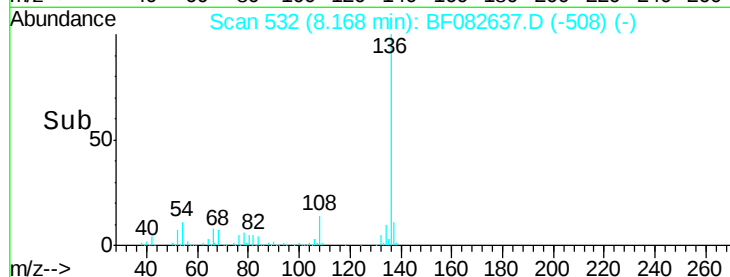
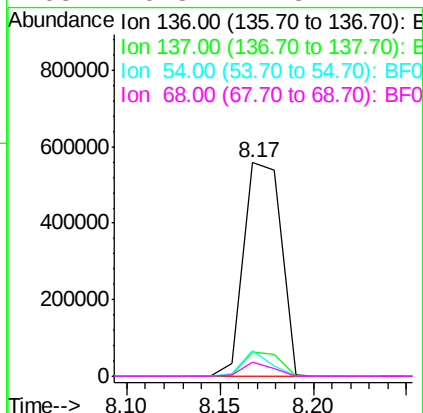
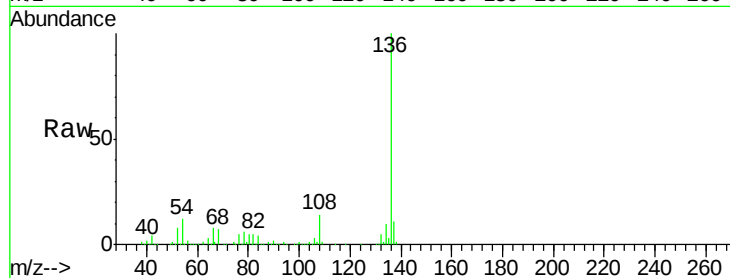




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.17 min Scan# 532
Delta R.T. -0.02 min
Lab File: BF082637.D
Acq: 2 Nov 2015 18:08

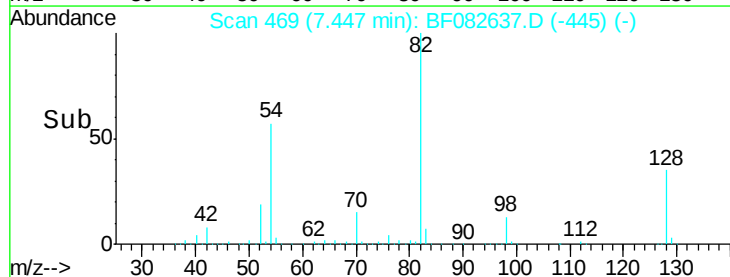
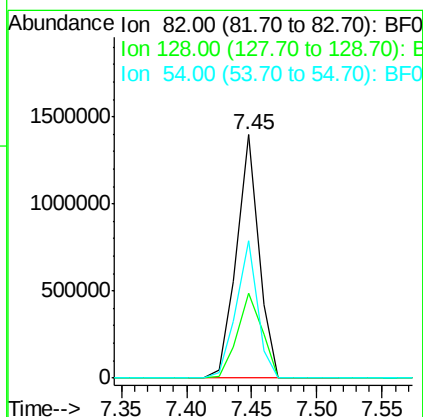
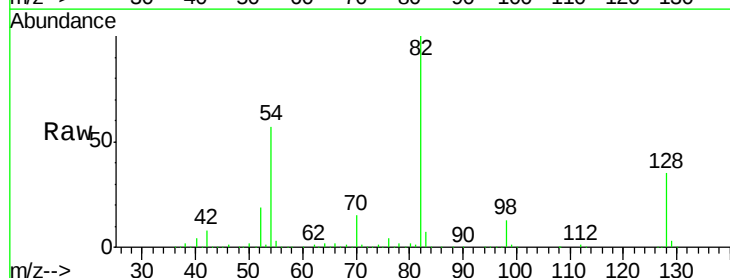
Instrument :
BNA_F
ClientSampleId :
LIBERTYSF-002

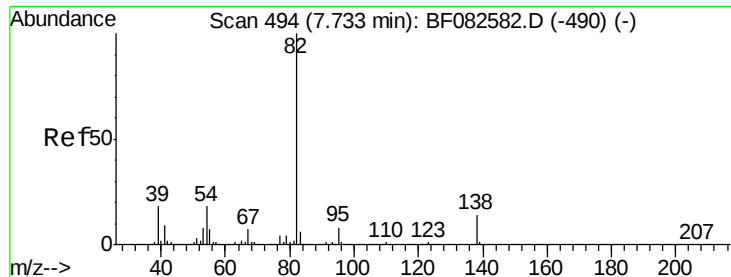
Tgt Ion:	136	Resp:	776947
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	11.7	9.1	13.7
68	6.8	4.8	7.2



#23
Nitrobenzene-d5
Concen: 87.44 ng
RT: 7.45 min Scan# 469
Delta R.T. -0.02 min
Lab File: BF082637.D
Acq: 2 Nov 2015 18:08

Tgt Ion:	82	Resp:	1663649
Ion	Ratio	Lower	Upper
82	100		
128	35.0	26.8	40.2
54	56.7	45.7	68.5





#25

Isophorone

Concen: 35.71 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.29 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

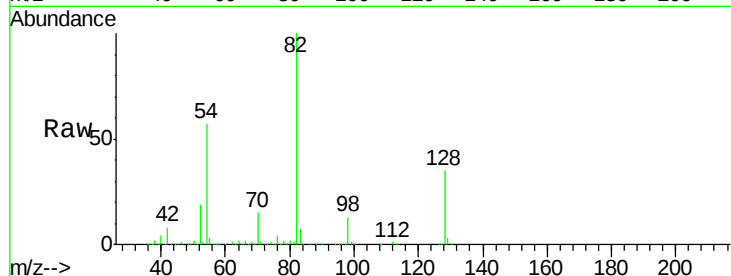
Tgt Ion: 82 Resp: 1249959

Ion Ratio Lower Upper

82 100

95 0.0 6.6 9.8#

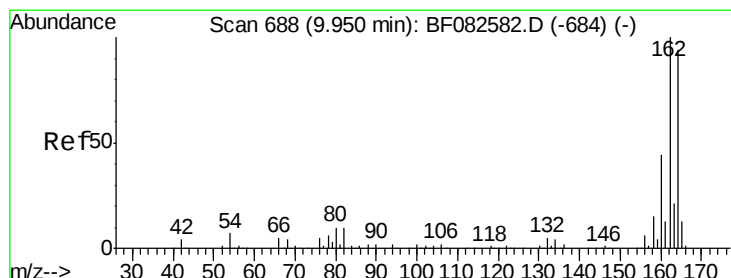
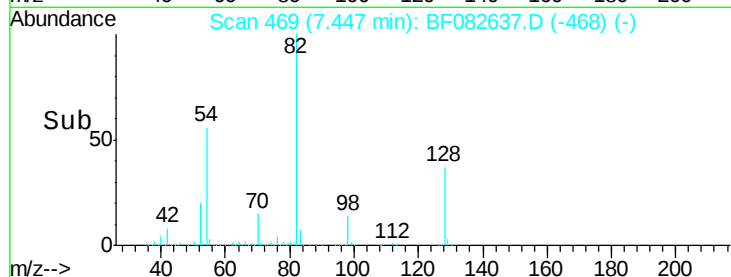
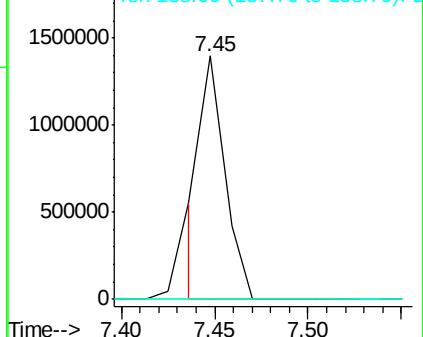
138 0.0 11.4 17.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

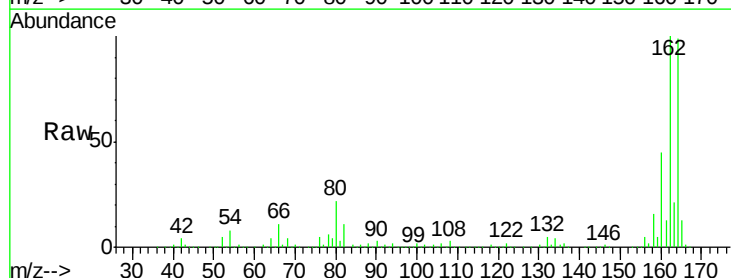
Tgt Ion: 164 Resp: 380960

Ion Ratio Lower Upper

164 100

162 100.9 84.9 127.3

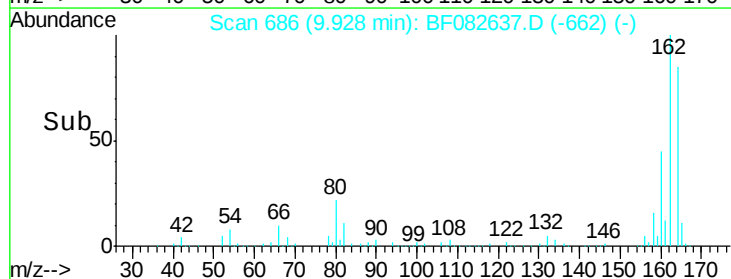
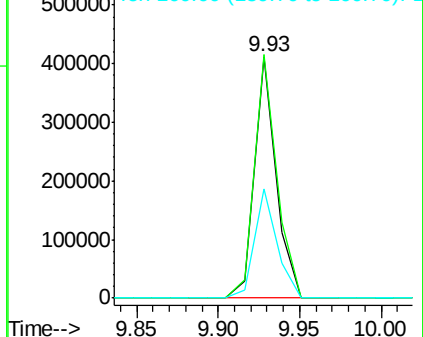
160 45.2 37.5 56.3

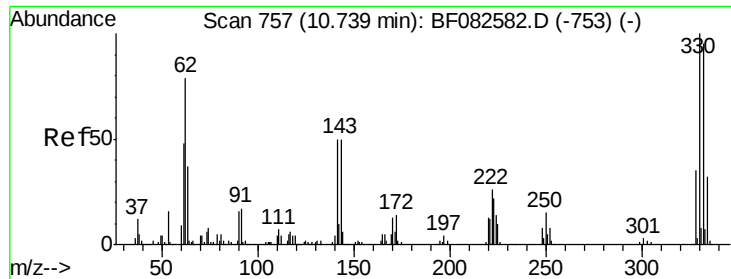


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

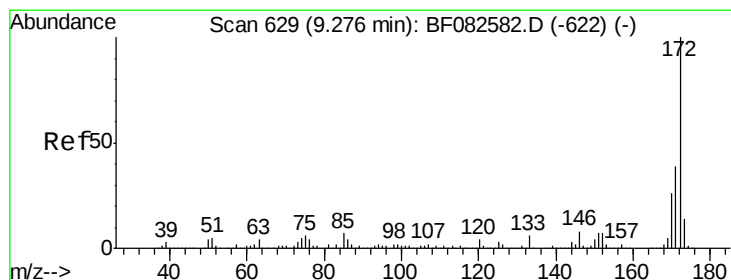
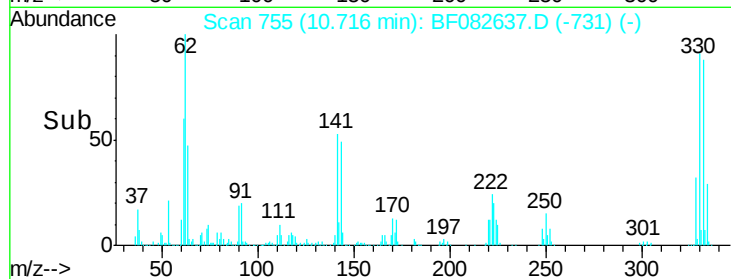
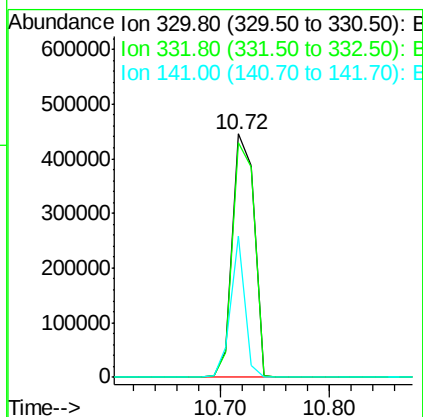
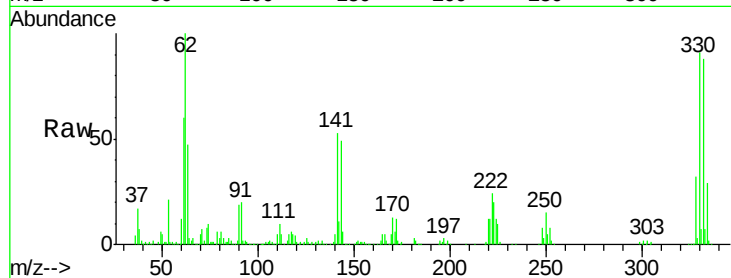




#41
 2,4,6-Tribromophenol
 Concen: 146.43 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.02 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

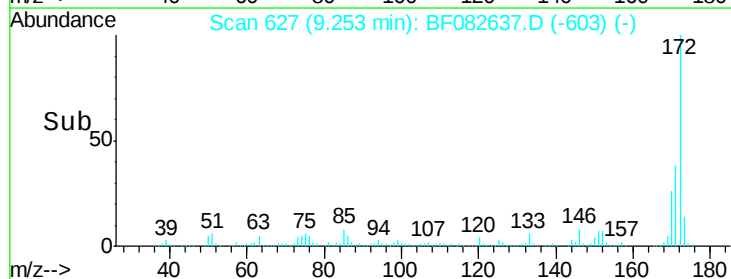
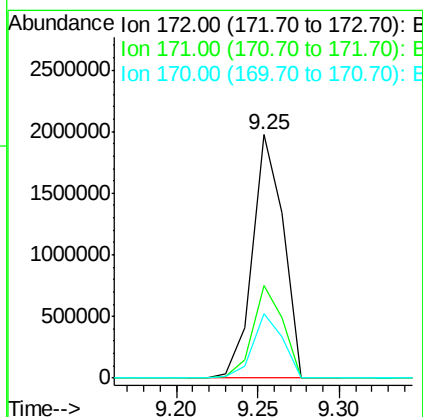
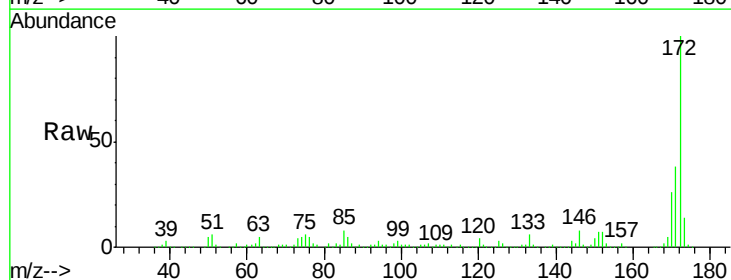
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTYSF-002

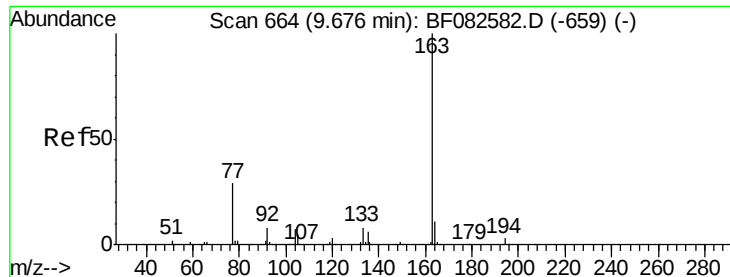
Tgt Ion: 330 Resp: 610519
 Ion Ratio Lower Upper
 330 100
 332 98.1 76.6 114.8
 141 38.8 41.2 61.8#



#44
 2-Fluorobiphenyl
 Concen: 96.11 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.02 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

Tgt Ion: 172 Resp: 2578797
 Ion Ratio Lower Upper
 172 100
 171 38.0 30.8 46.2
 170 26.3 21.2 31.8





#49

Dimethylphthalate

Concen: 24.08 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

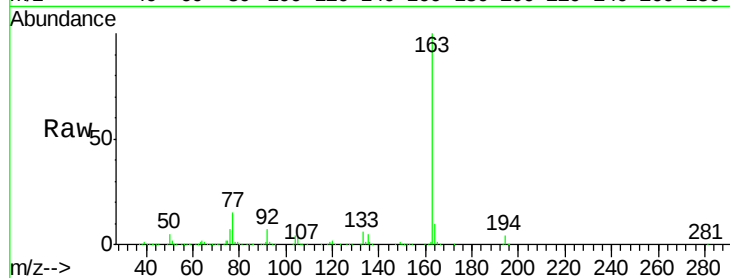
Tgt Ion:163 Resp: 749236

Ion Ratio Lower Upper

163 100

194 3.9 2.6 4.0

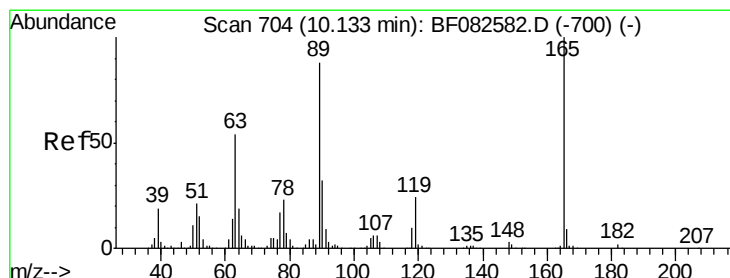
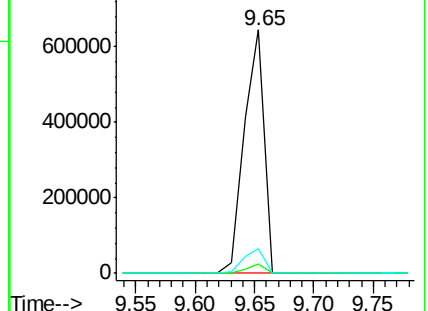
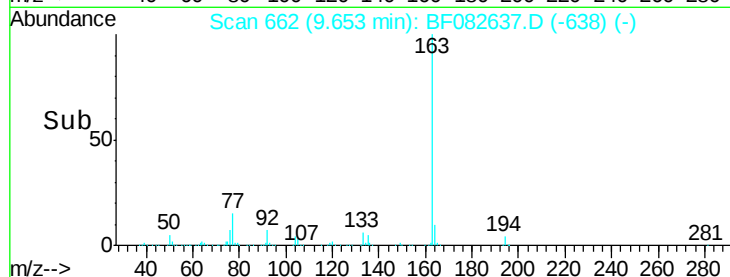
164 10.1 8.7 13.1



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: 5.56 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.21 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Tgt Ion:165 Resp: 48454

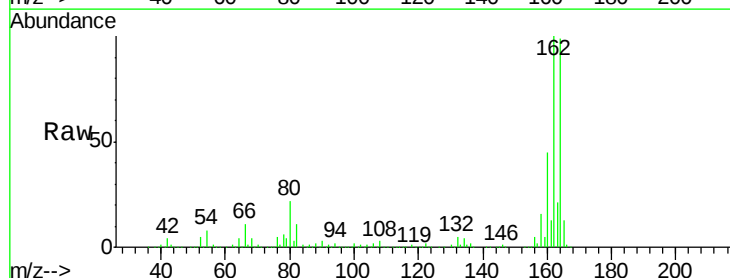
Ion Ratio Lower Upper

165 100

63 2.4 43.4 65.0#

89 1.7 70.6 106.0#

182 0.0 1.5 2.3#

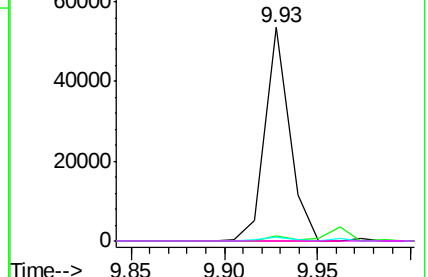
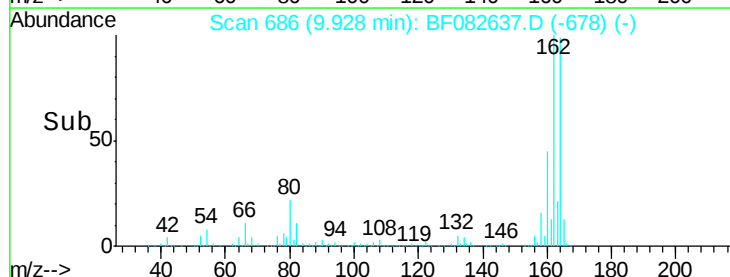


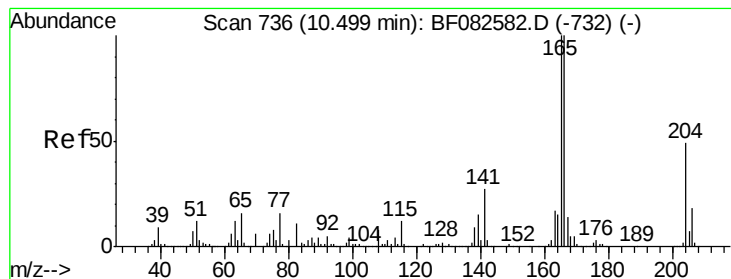
Abundance Ion 165.00 (164.70 to 165.70): E

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: 2.86 ng

RT: 10.48 min Scan# 734

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

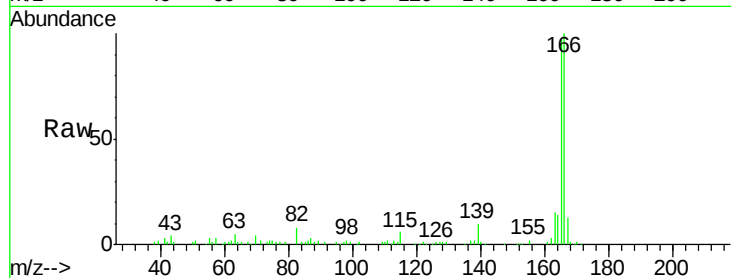
Tgt Ion:166 Resp: 79754

Ion Ratio Lower Upper

166 100

165 96.8 80.2 120.4

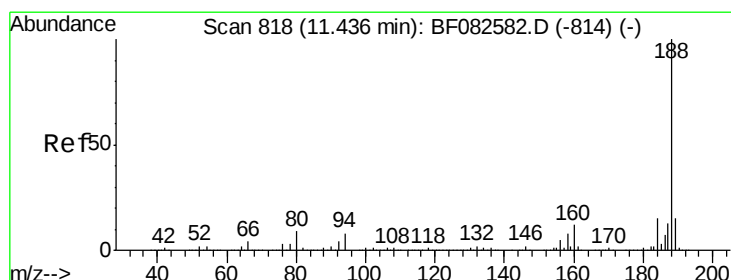
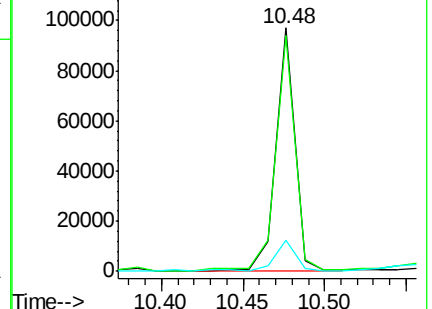
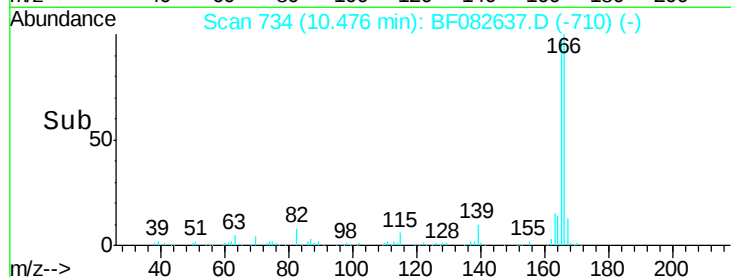
167 12.6 11.2 16.8



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: 11.41 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

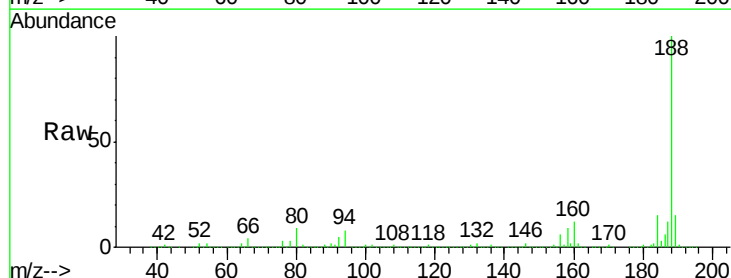
Tgt Ion:188 Resp: 709706

Ion Ratio Lower Upper

188 100

94 8.4 6.1 9.1

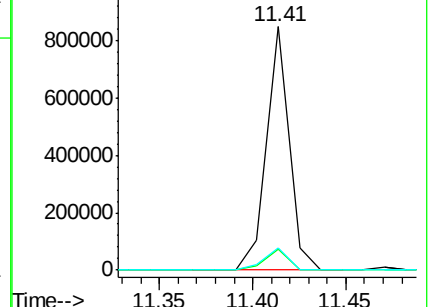
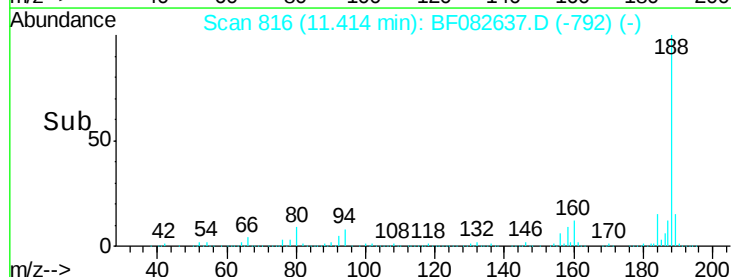
80 9.3 7.0 10.6

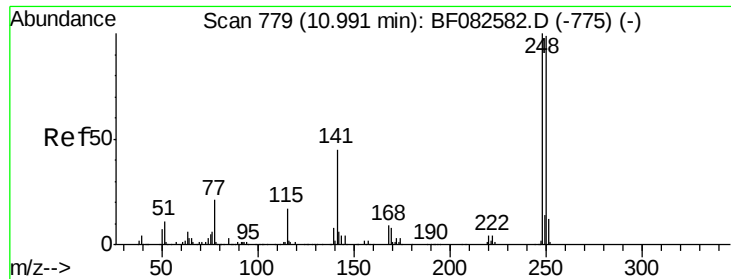


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

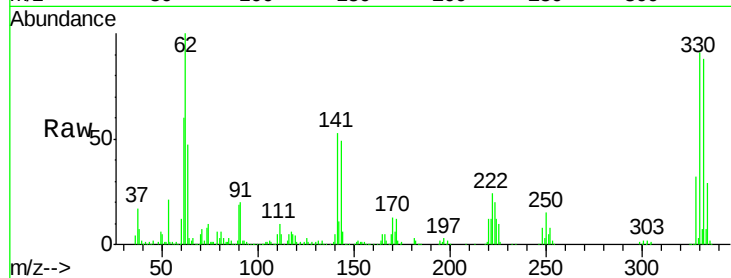




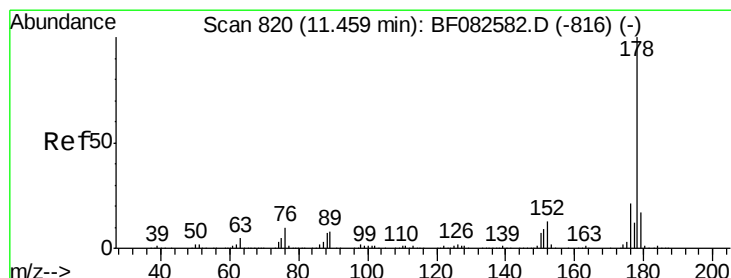
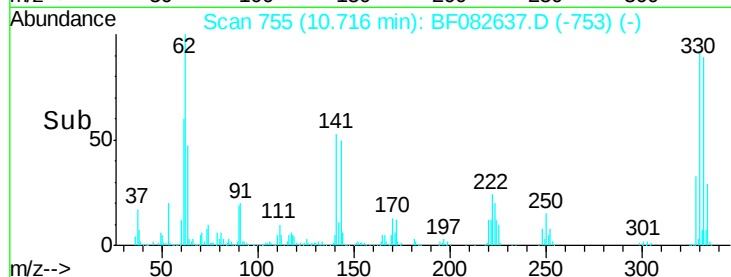
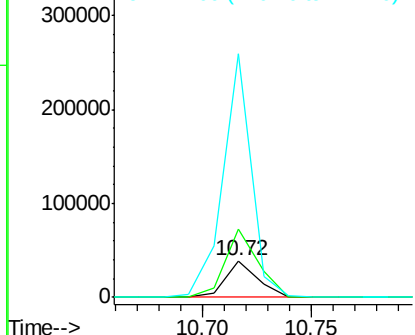
#66
 4-Bromophenyl-phenylether
 Concen: 4.98 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.27 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTYSF-002

Tgt Ion:248 Resp: 40065
 Ion Ratio Lower Upper
 248 100
 250 186.6 79.4 119.2#
 141 664.9 36.3 54.5#

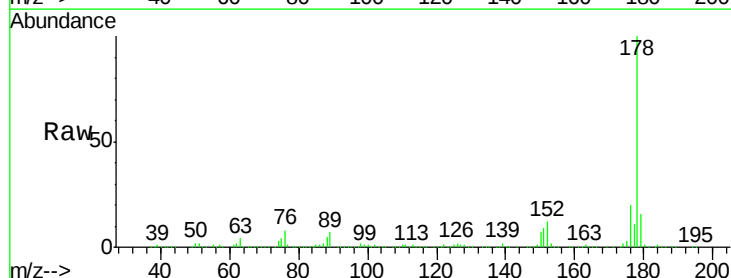


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

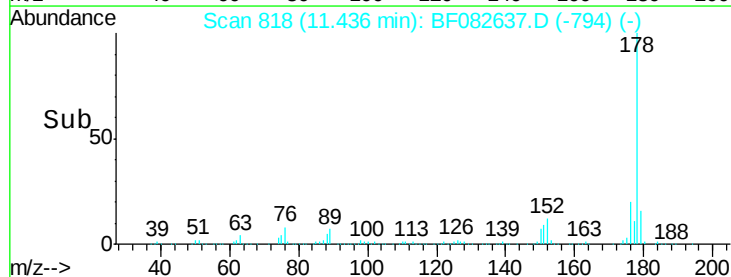
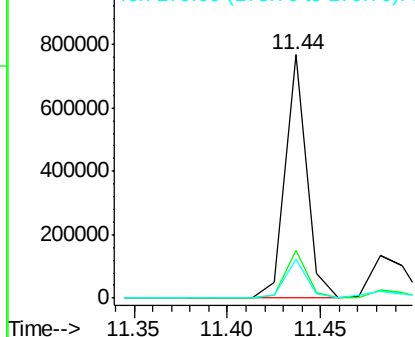


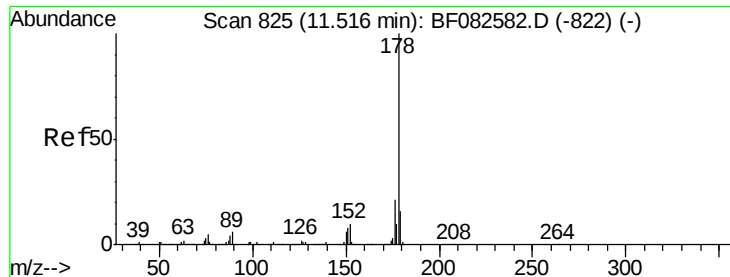
#70
 Phenanthrene
 Concen: 15.48 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.02 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

Tgt Ion:178 Resp: 619651
 Ion Ratio Lower Upper
 178 100
 176 19.6 17.0 25.4
 179 15.9 13.4 20.0



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

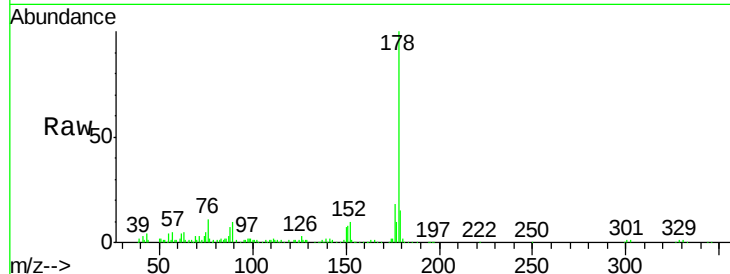




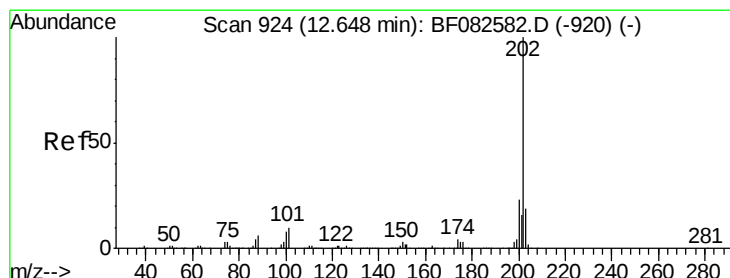
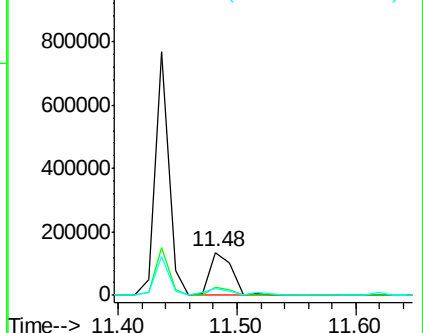
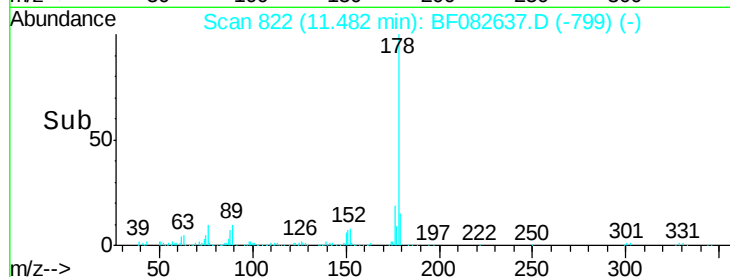
#71
 Anthracene
 Concen: 4.28 ng
 RT: 11.48 min Scan# 822
 Delta R.T. -0.03 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTYSF-002

Tgt Ion:178 Resp: 172551
 Ion Ratio Lower Upper
 178 100
 176 18.5 16.5 24.7
 179 14.9 13.2 19.8

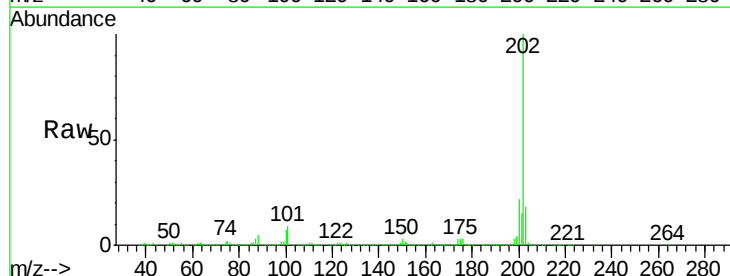


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

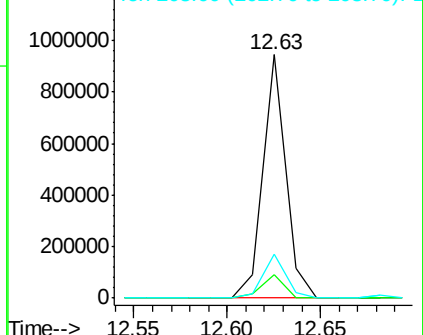
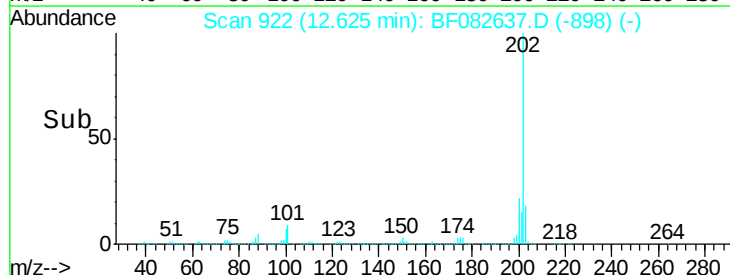


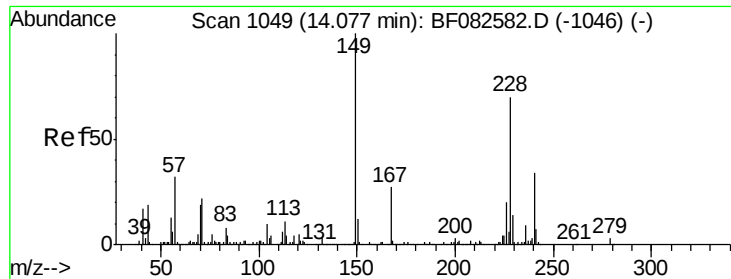
#74
 Fluoranthene
 Concen: 19.30 ng
 RT: 12.63 min Scan# 922
 Delta R.T. -0.02 min
 Lab File: BF082637.D
 Acq: 2 Nov 2015 18:08

Tgt Ion:202 Resp: 789593
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 30.5
 203 18.1 0.0 38.5



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# 1047

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

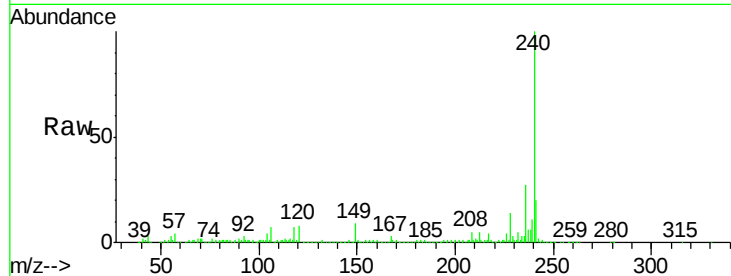
Tgt Ion:240 Resp: 519892

Ion Ratio Lower Upper

240 100

120 8.0 10.9 16.3#

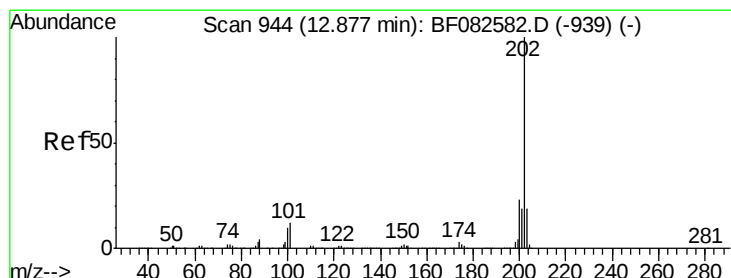
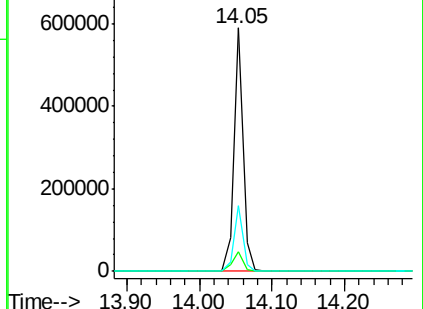
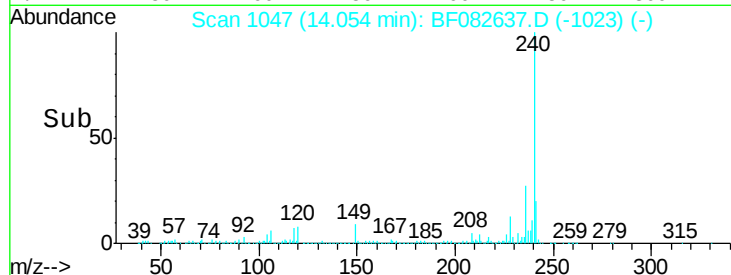
236 26.7 21.6 32.4



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: 17.81 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

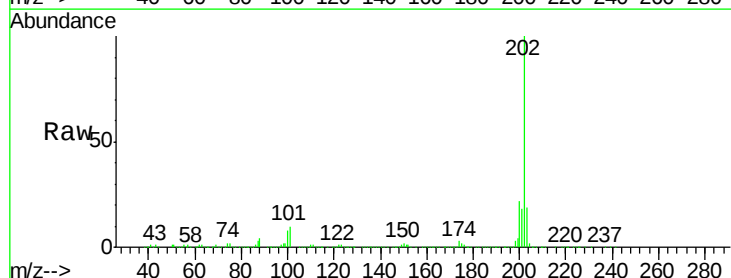
Tgt Ion:202 Resp: 685767

Ion Ratio Lower Upper

202 100

200 21.7 18.7 28.1

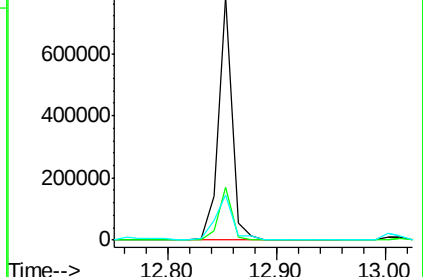
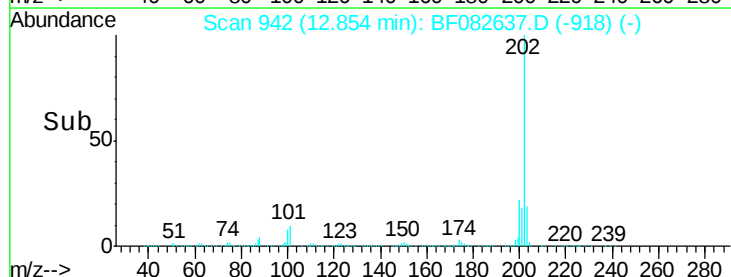
203 18.7 14.8 22.2

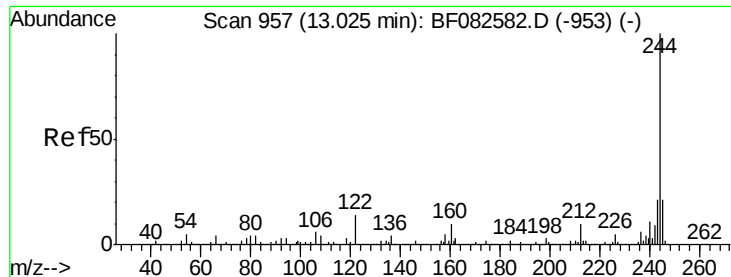


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 102.25 ng

RT: 13.01 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

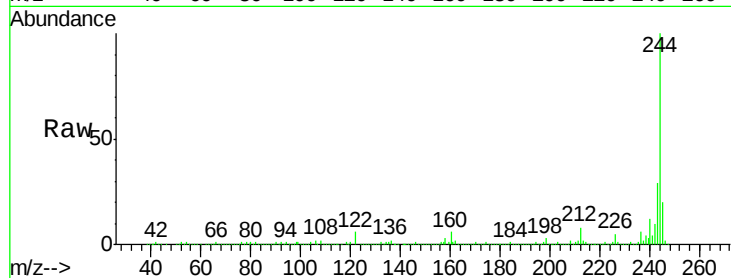
Tgt Ion:244 Resp: 2428971

Ion Ratio Lower Upper

244 100

212 8.0 7.6 11.4

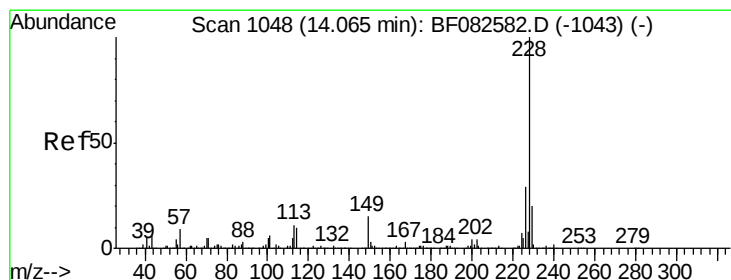
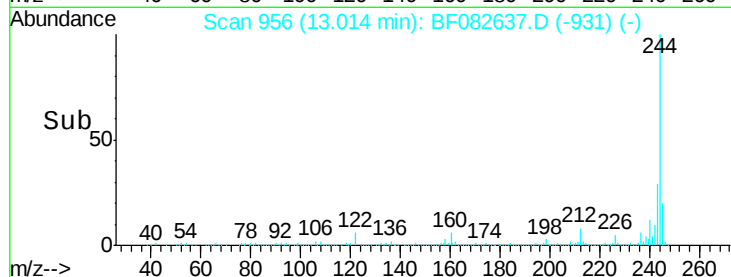
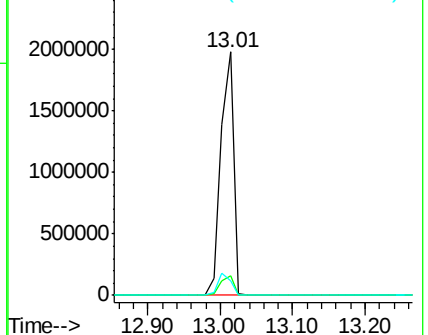
122 5.8 11.3 16.9#



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: 11.40 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

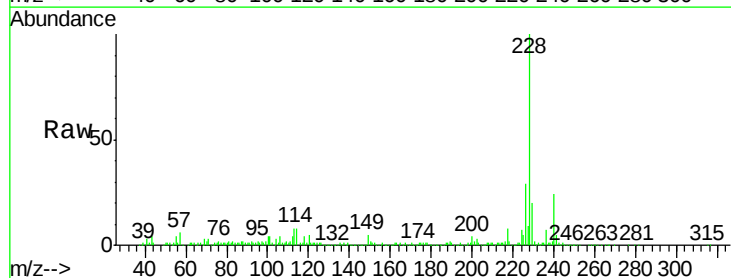
Tgt Ion:228 Resp: 376452

Ion Ratio Lower Upper

228 100

226 29.2 23.4 35.2

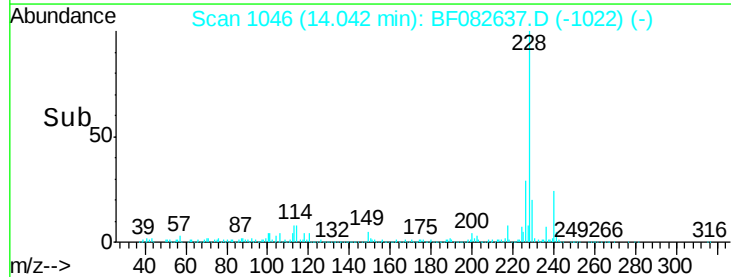
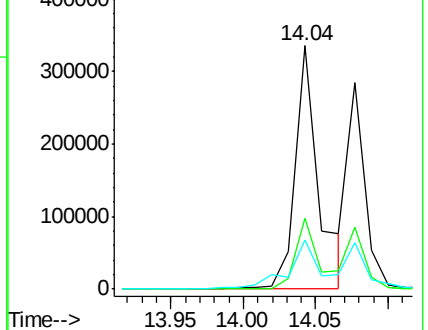
229 20.0 16.3 24.5

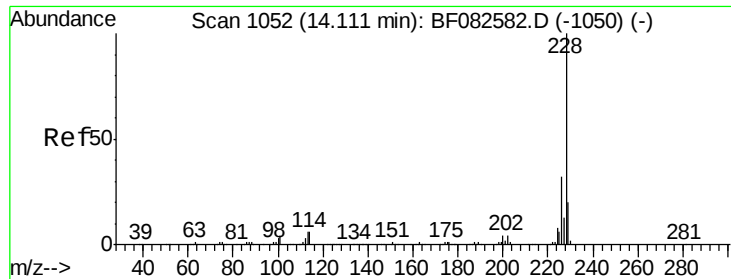


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.89 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.03 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

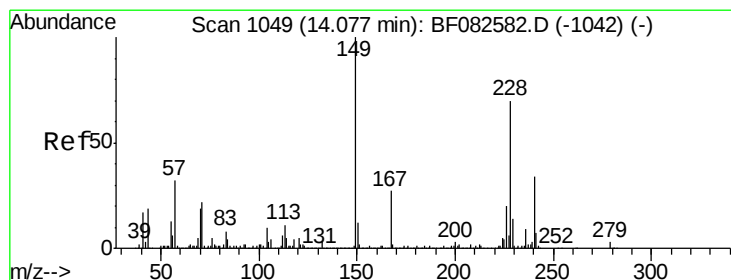
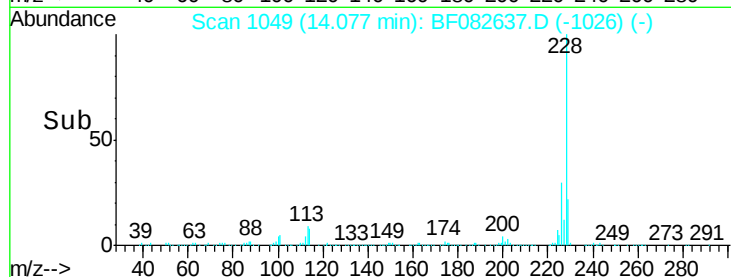
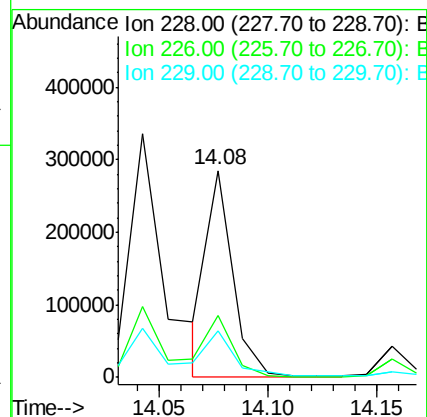
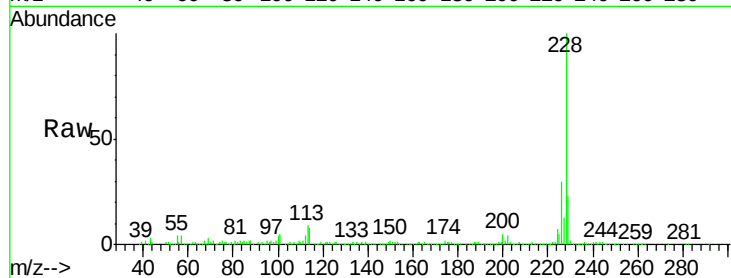
Tgt Ion:228 Resp: 236085

Ion Ratio Lower Upper

228 100

226 30.0 25.5 38.3

229 22.7 16.3 24.5



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.41 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

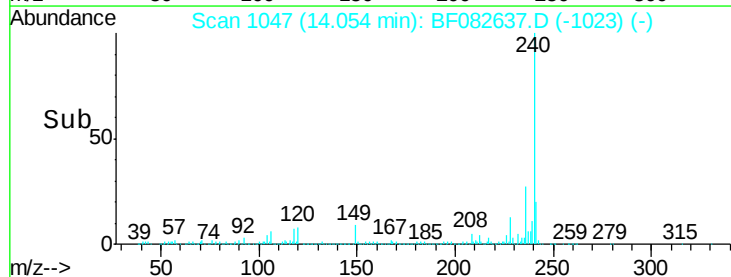
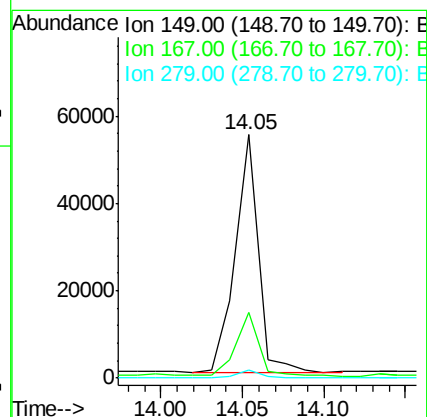
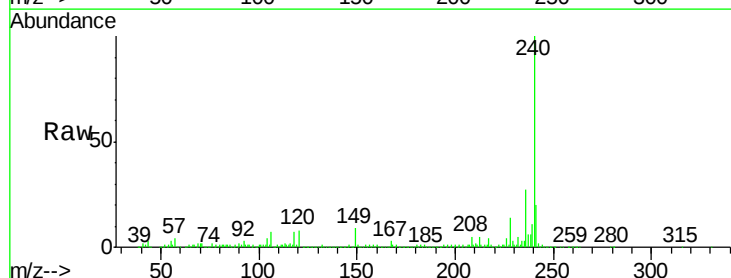
Tgt Ion:149 Resp: 52623

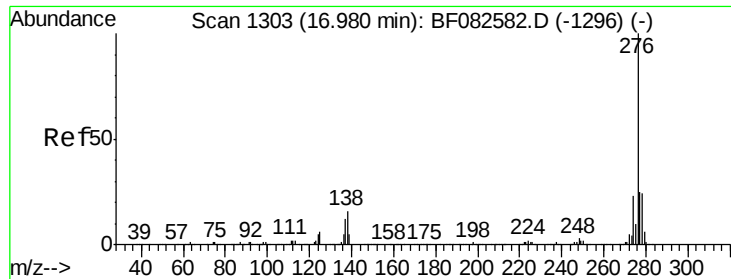
Ion Ratio Lower Upper

149 100

167 26.8 21.2 31.8

279 3.3 2.2 3.2#





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.99 ng

RT: 16.92 min Scan# 1298

Delta R.T. -0.06 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

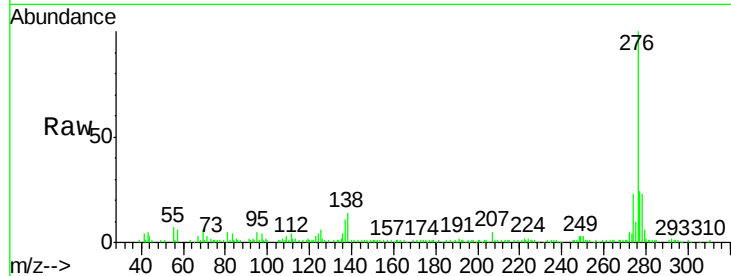
Tgt Ion:276 Resp: 147848

Ion Ratio Lower Upper

276 100

138 16.6 15.3 22.9

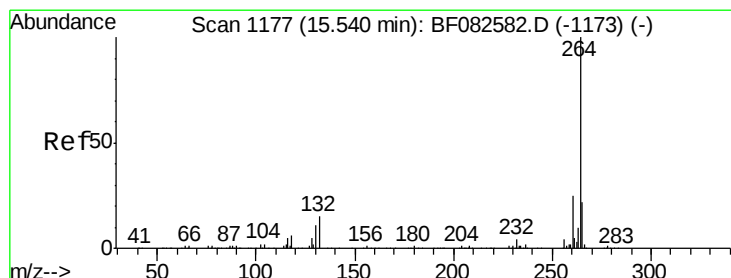
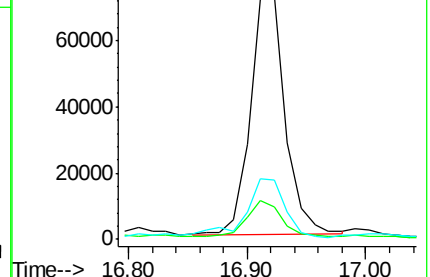
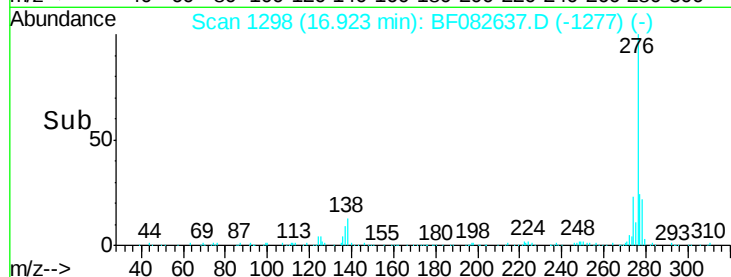
277 30.1 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.51 min Scan# 1174

Delta R.T. -0.03 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

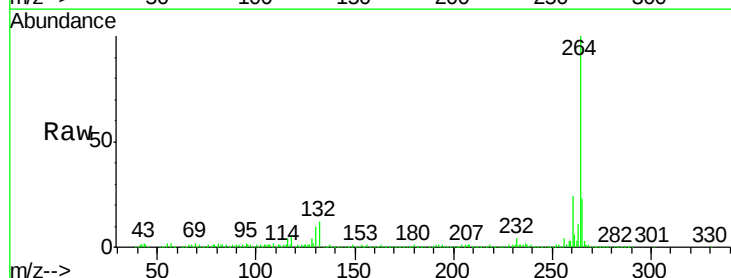
Tgt Ion:264 Resp: 445448

Ion Ratio Lower Upper

264 100

260 23.9 19.8 29.6

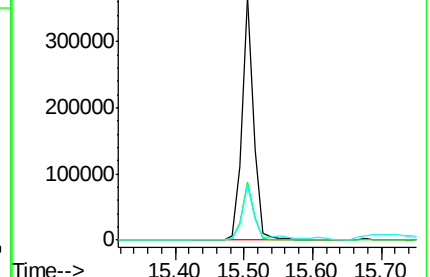
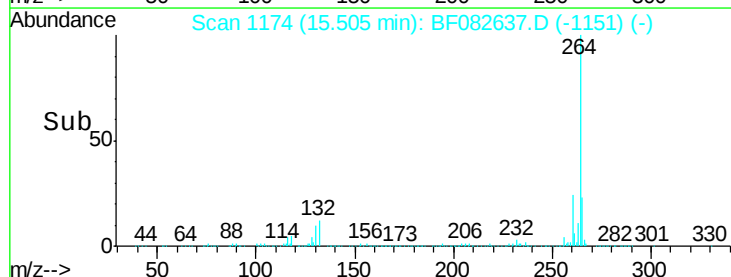
265 22.7 17.4 26.0

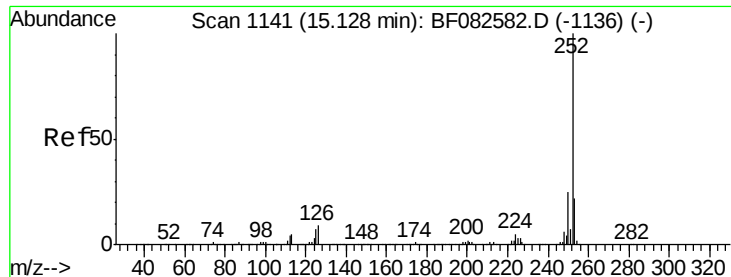


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 14.05 ng

RT: 15.09 min Scan# 1138

Delta R.T. -0.03 min

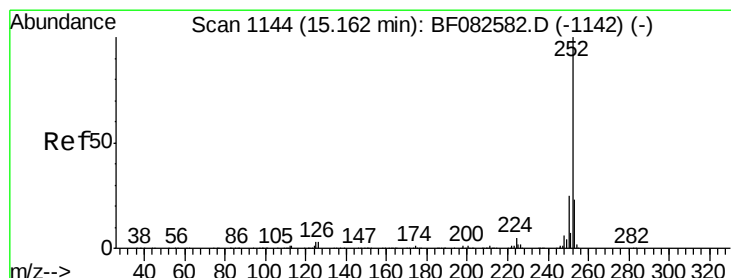
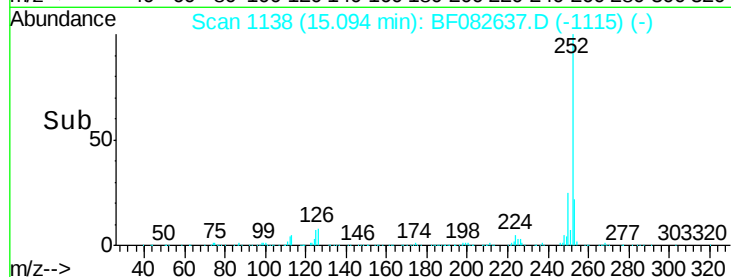
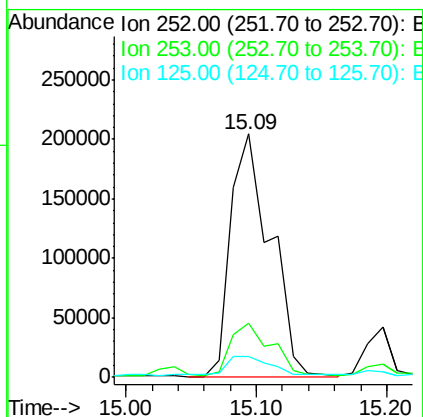
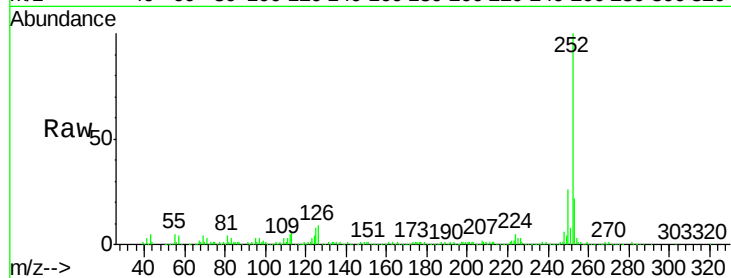
Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Instrument :
BNA_F
ClientSampleId :
LIBERTYSF-002

Tgt Ion: 252 Resp: 431651

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	8.3	5.4	8.2#



#88

Benzo(k)fluoranthene

Concen: 18.45 ng

RT: 15.09 min Scan# 1138

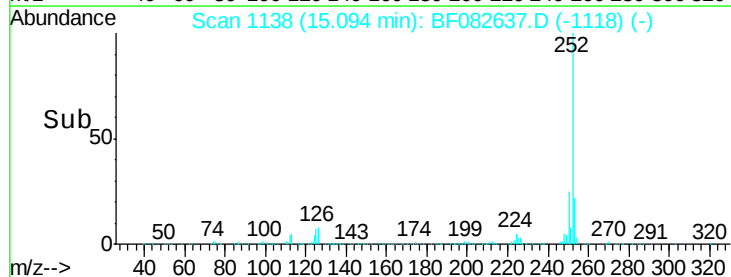
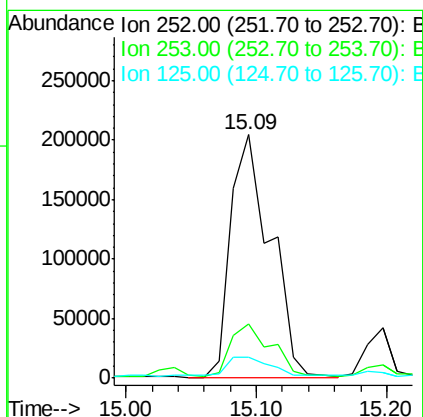
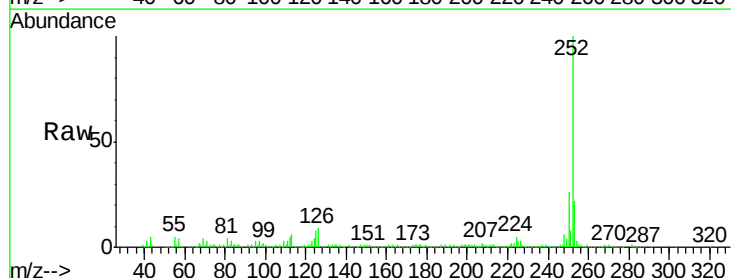
Delta R.T. -0.07 min

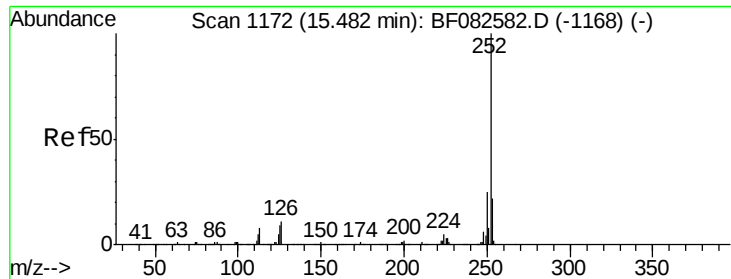
Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Tgt Ion: 252 Resp: 431651

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	8.3	3.5	5.3#





#89

Benzo(a)pyrene

Concen: 9.89 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.05 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

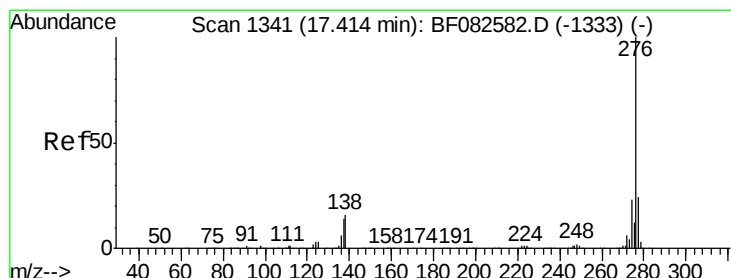
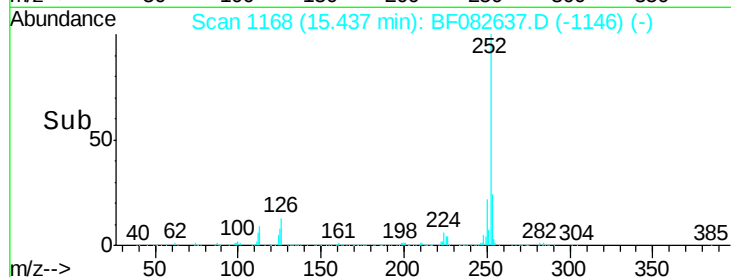
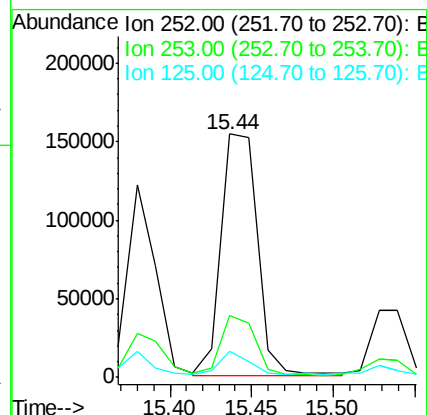
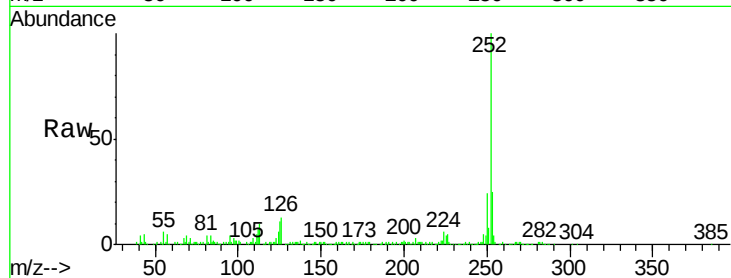
Instrument :

BNA_F

ClientSampleId :

LIBERTYSF-002

Tgt Ion:	252	Resp:	239175
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.3	25.9
125	10.6	7.1	10.7



#91

Benzo(g,h,i)perylene

Concen: 6.38 ng

RT: 17.35 min Scan# 1335

Delta R.T. -0.07 min

Lab File: BF082637.D

Acq: 2 Nov 2015 18:08

Tgt Ion:	276	Resp:	139453
Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.2	28.8
138	14.7	13.1	19.7

