

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
 Data File : BF083857.D
 Acq On : 16 Dec 2015 19:25
 Operator : UM/SJ
 Sample : G4836-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Quant Time: Dec 17 03:24:53 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

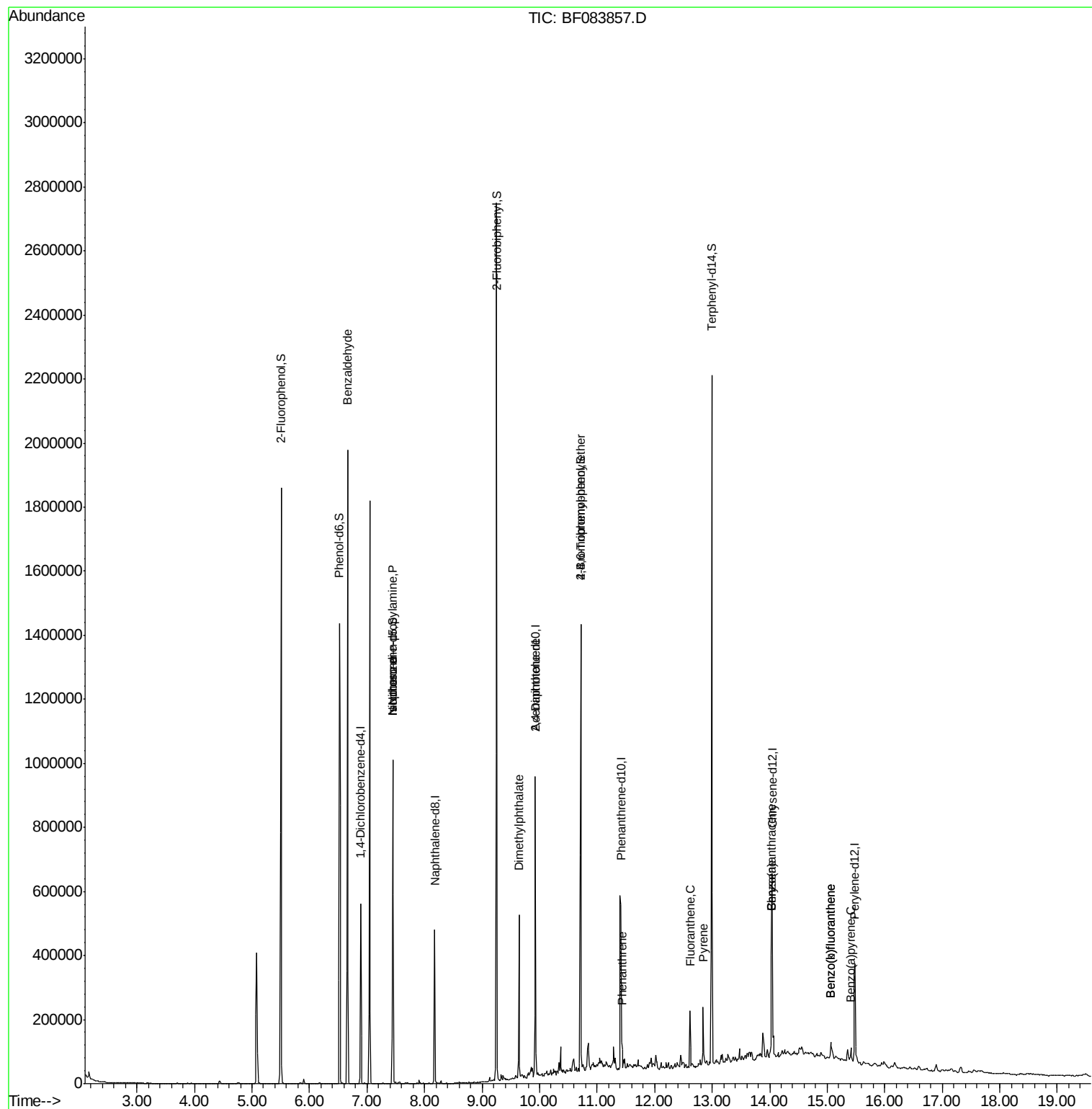
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	84754	20.00	ng	-0.03
21) Naphthalene-d8	8.18	136	338927	20.00	ng	-0.03
38) Acenaphthene-d10	9.93	164	173273	20.00	ng	-0.03
63) Phenanthrene-d10	11.41	188	290347	20.00	ng	-0.03
75) Chrysene-d12	14.04	240	204128	20.00	ng	-0.03
86) Perylene-d12	15.48	264	166120	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	557240	106.07	ng	-0.02
7) Phenol-d6	6.52	99	705903	106.10	ng	-0.02
23) Nitrobenzene-d5	7.45	82	421681	69.61	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	195845	110.92	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	891819	72.06	ng	-0.03
78) Terphenyl-d14	12.99	244	681646	71.83	ng	-0.03
Target Compounds						Qvalue
9) Benzaldehyde	6.66	77	12669	3.55	ng	92
19) n-Nitroso-di-n-propylamine	7.45	70	55340	13.58	ng	# 71
25) Isophorone	7.45	82	387768	32.63	ng	# 69
49) Dimethylphthalate	9.64	163	173393	12.84	ng	99
56) 2,4-Dinitrotoluene	9.93	165	22093	5.90	ng	# 12
66) 4-Bromophenyl-phenylether	10.72	248	13125	4.04	ng	# 1
70) Phenanthrene	11.44	178	40116	2.60	ng	98
74) Fluoranthene	12.61	202	70479	4.42	ng	94
77) Pyrene	12.84	202	71349	4.42	ng	99
80) Benzo(a)anthracene	14.03	228	33228	2.86	ng	98
82) Chrysene	14.03	228	33228	2.93	ng	95
87) Benzo(b)fluoranthene	15.06	252	35086	3.31	ng	# 91
88) Benzo(k)fluoranthene	15.06	252	35086	3.65	ng	# 94
89) Benzo(a)pyrene	15.41	252	19441	2.06	ng	# 89

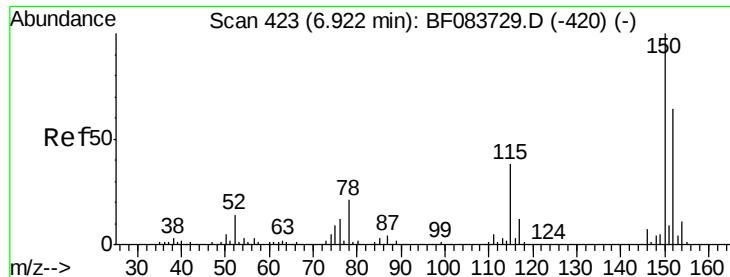
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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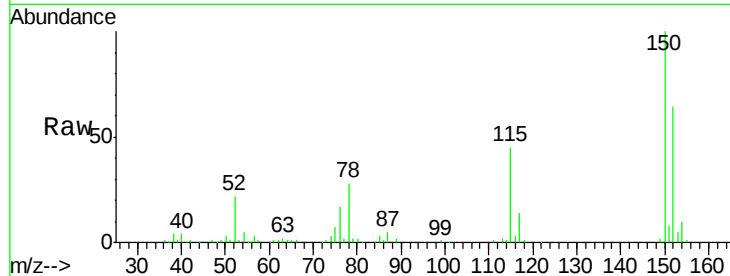




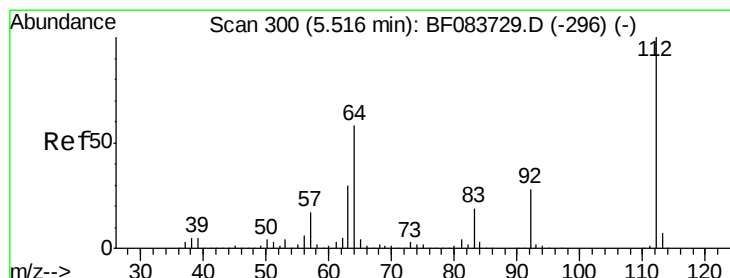
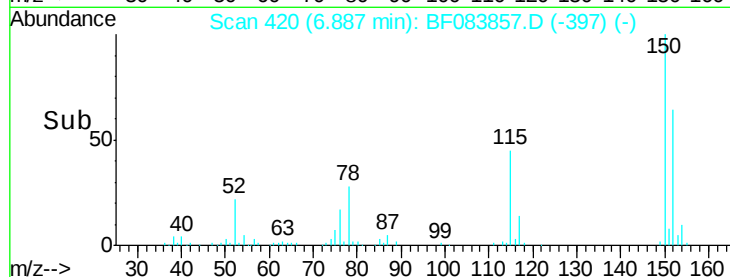
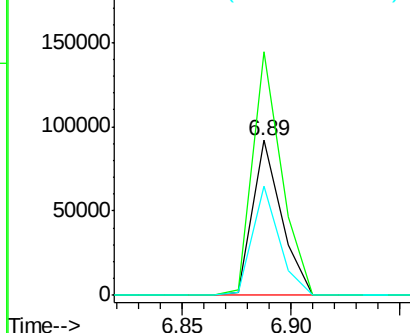
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.89 min Scan# 420
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Tgt Ion:152 Resp: 84754
 Ion Ratio Lower Upper
 152 100
 150 157.4 126.5 189.7
 115 70.8 52.3 78.5

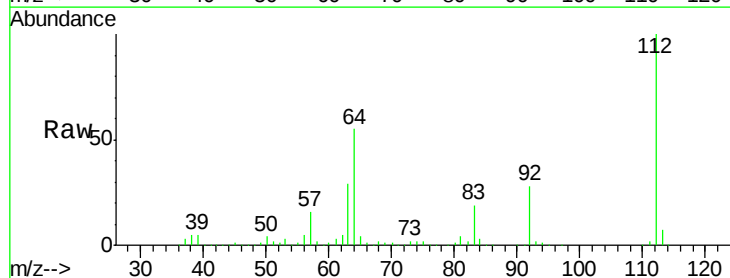


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

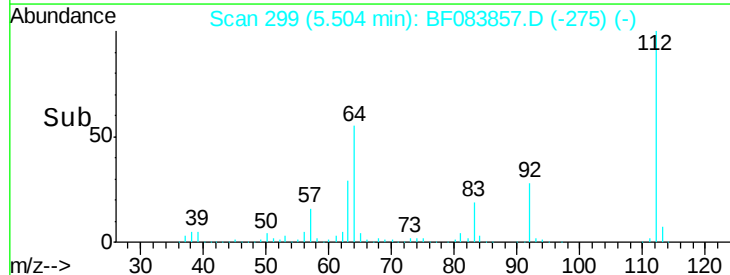
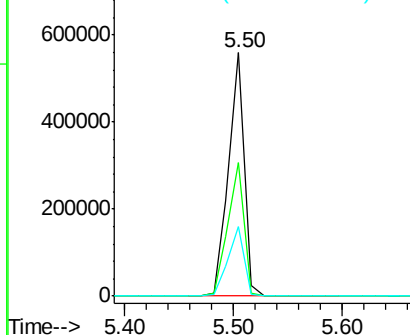


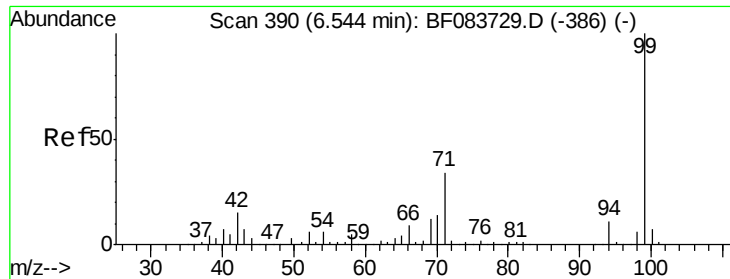
#5
 2-Fluorophenol
 Concen: 106.07 ng
 RT: 5.50 min Scan# 299
 Delta R.T. -0.02 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion:112 Resp: 557240
 Ion Ratio Lower Upper
 112 100
 64 54.6 50.5 75.7
 63 28.8 25.8 38.6



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: 106.10 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-004

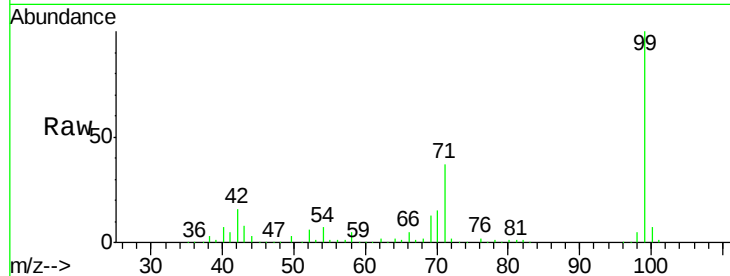
Tgt Ion: 99 Resp: 705903

Ion Ratio Lower Upper

99 100

42 16.3 17.3 25.9#

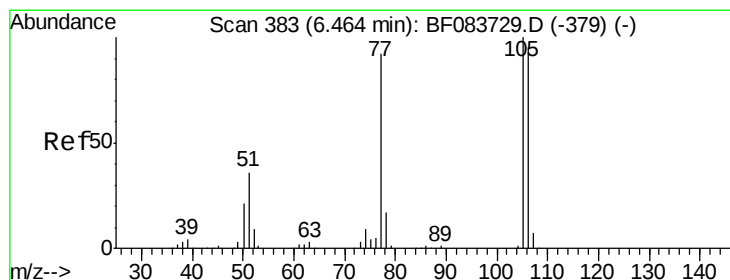
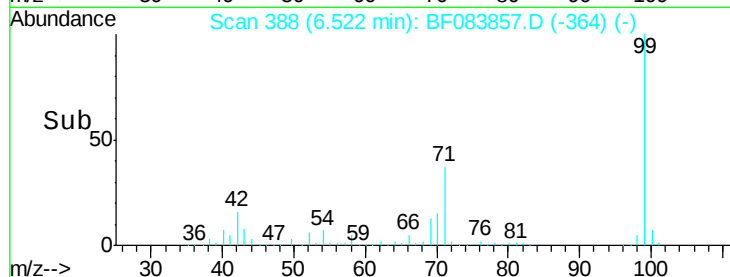
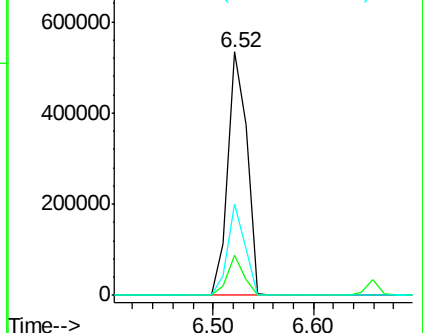
71 37.3 26.6 40.0



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: 3.55 ng

RT: 6.66 min Scan# 400

Delta R.T. 0.19 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

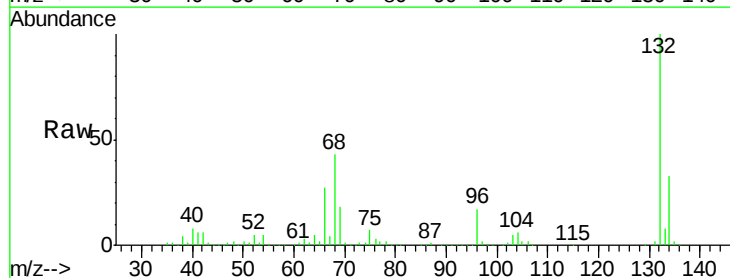
Tgt Ion: 77 Resp: 12669

Ion Ratio Lower Upper

77 100

105 81.0 71.8 111.8

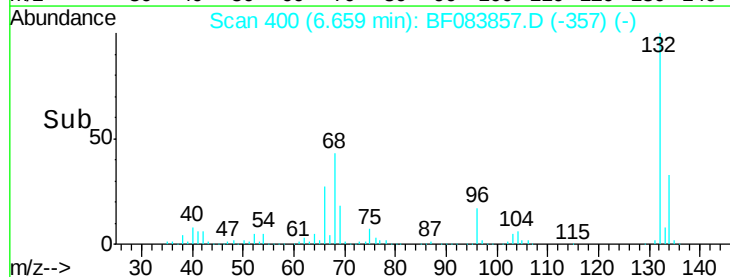
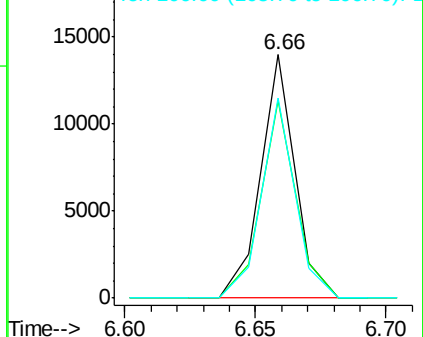
106 81.9 66.8 106.8

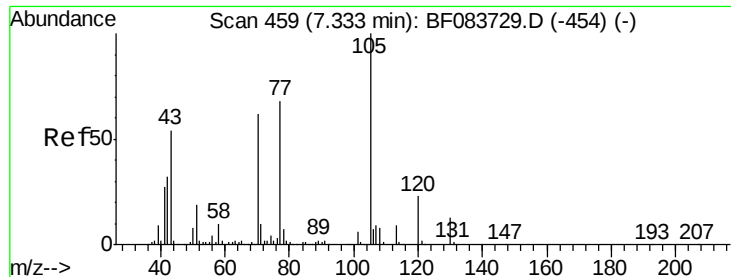


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

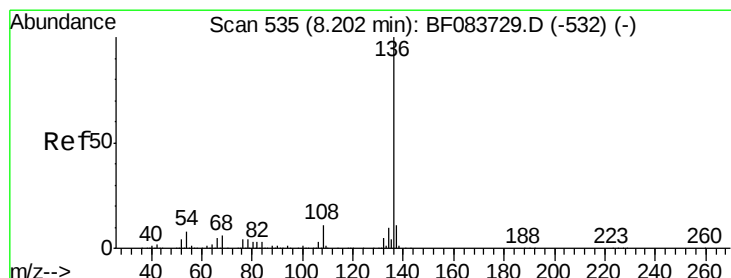
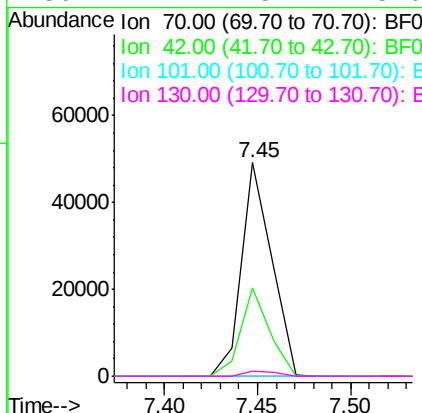
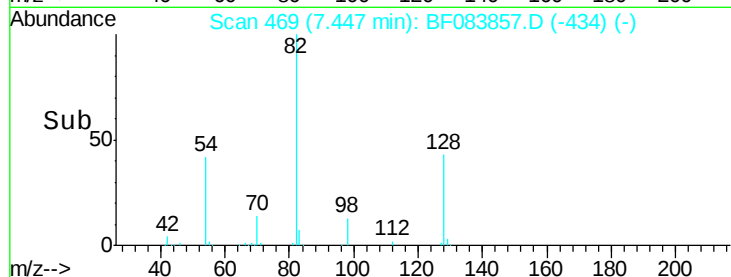
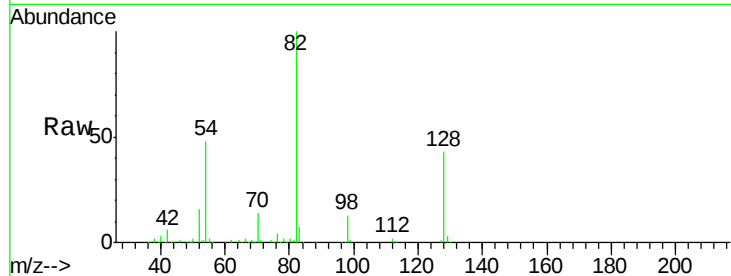




#19
n-Nitroso-di-n-propylamine
Concen: 13.58 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.10 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

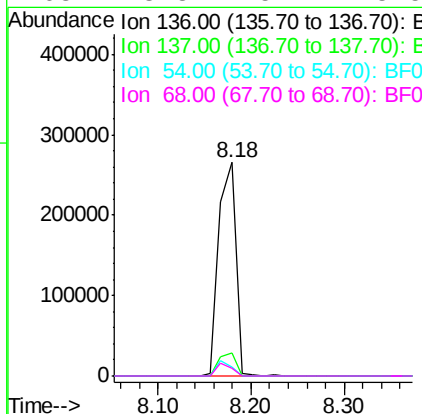
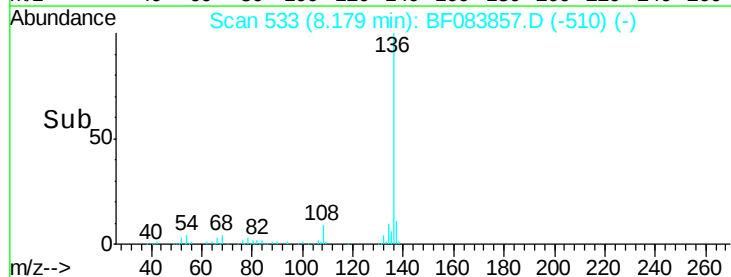
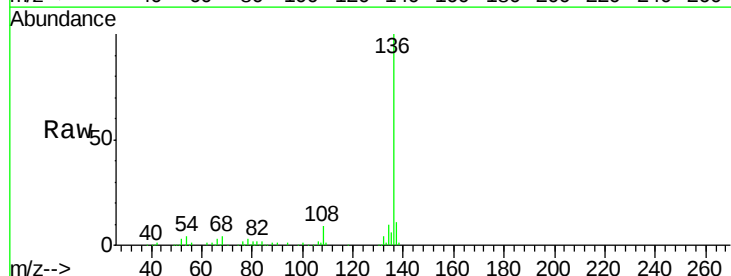
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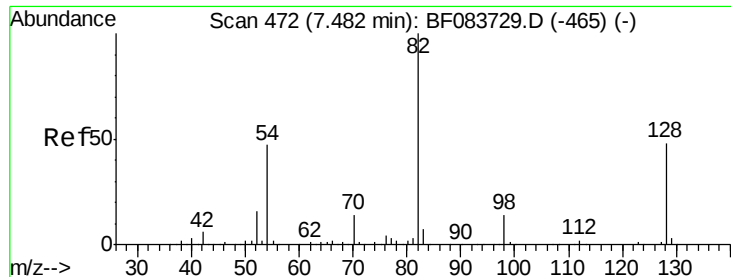
Tgt Ion: 70 Resp: 55340
Ion Ratio Lower Upper
70 100
42 41.2 49.2 73.8#
101 0.0 7.1 10.7#
130 2.2 15.4 23.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion: 136 Resp: 338927
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 4.3 7.8 11.6#
68 3.8 5.7 8.5#

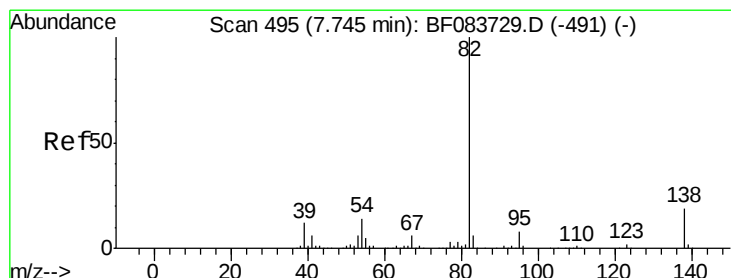
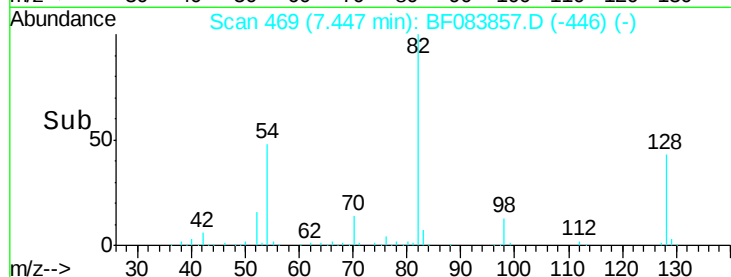
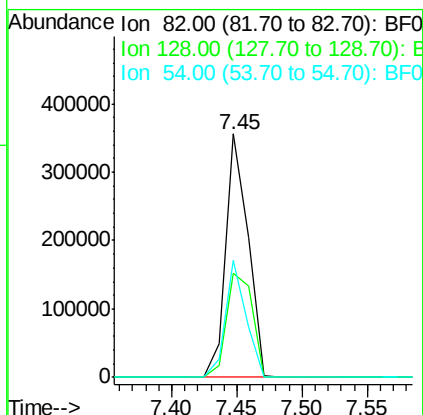
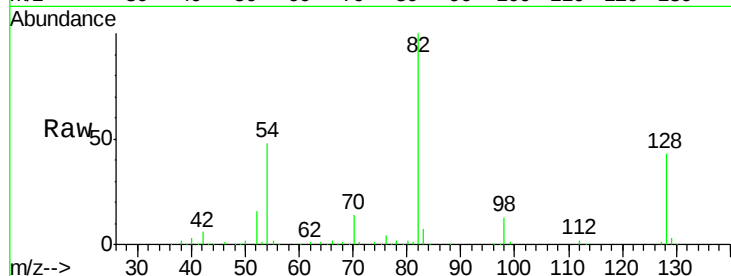




#23
 Nitrobenzene-d5
 Concen: 69.61 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

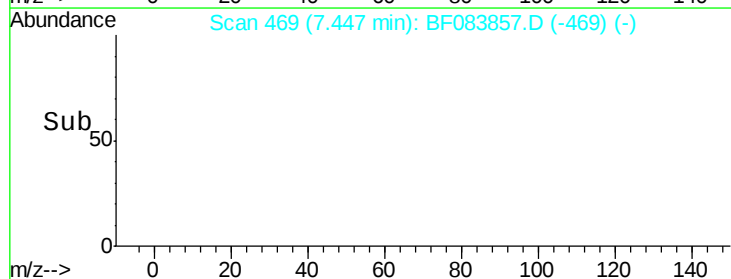
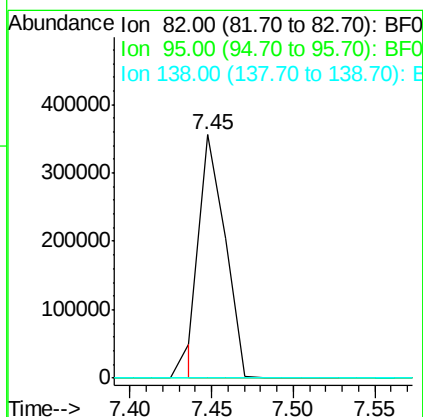
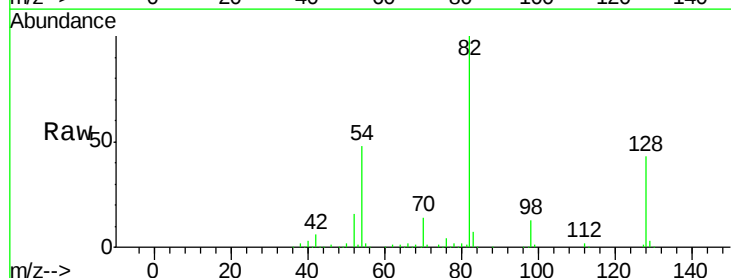
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

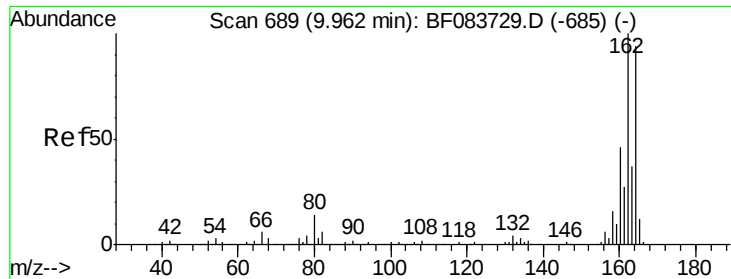
Tgt Ion: 82 Resp: 421681
 Ion Ratio Lower Upper
 82 100
 128 42.6 30.7 46.1
 54 47.8 42.5 63.7



#25
 Isophorone
 Concen: 32.63 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.30 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion: 82 Resp: 387768
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.0 7.4#
 138 0.0 12.1 18.1#

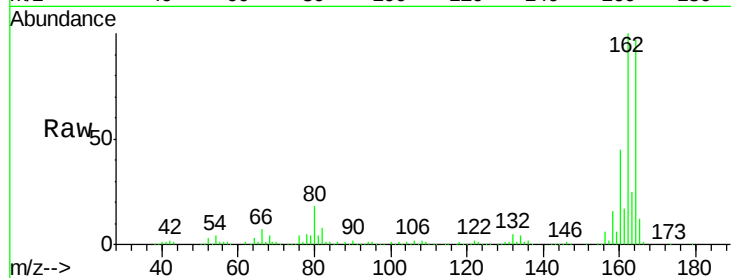




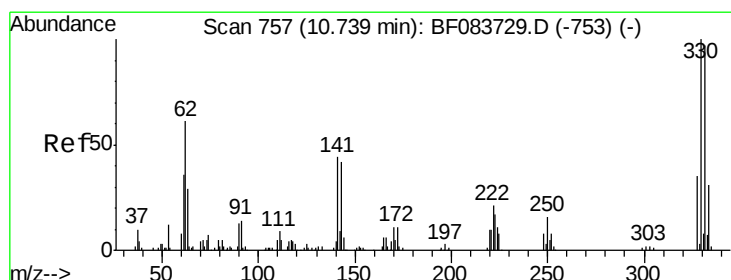
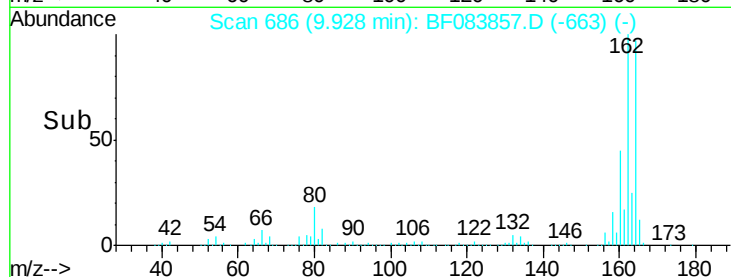
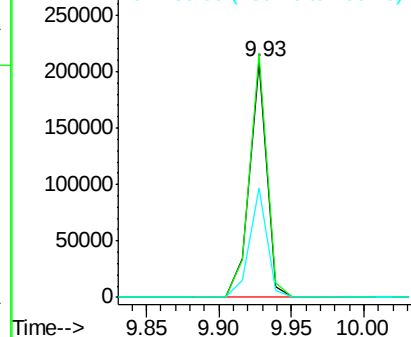
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

Tgt Ion:164 Resp: 173273
Ion Ratio Lower Upper
164 100
162 103.5 78.8 118.2
160 46.5 33.4 50.2

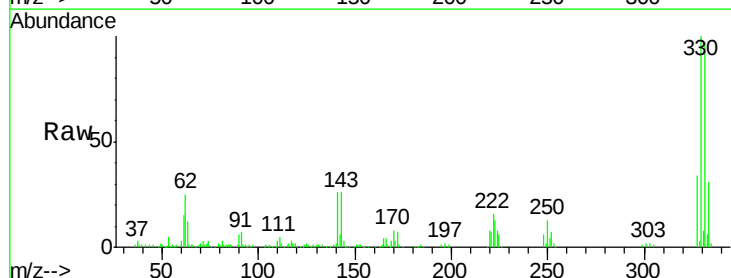


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

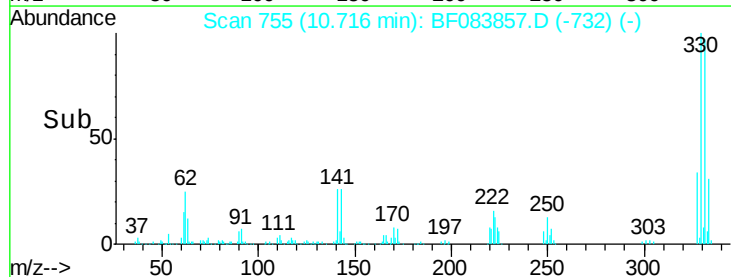
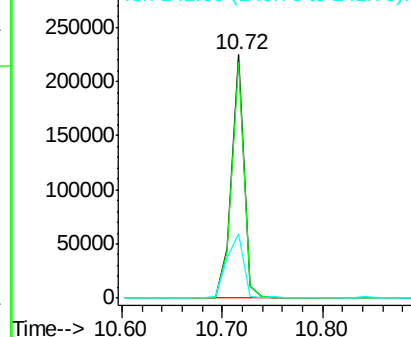


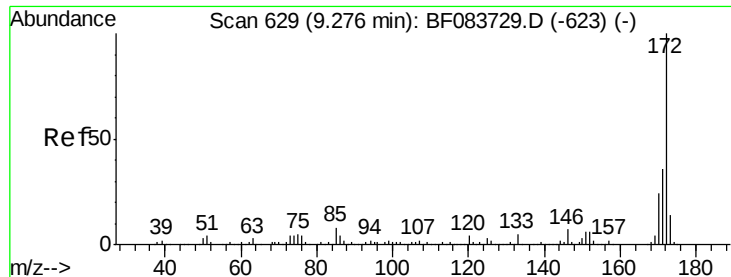
#41
2,4,6-Tribromophenol
Concen: 110.92 ng
RT: 10.72 min Scan# 755
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion:330 Resp: 195845
Ion Ratio Lower Upper
330 100
332 96.5 0.0 0.0#
141 35.0 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

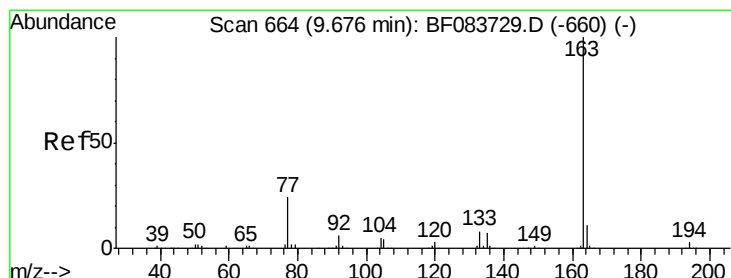
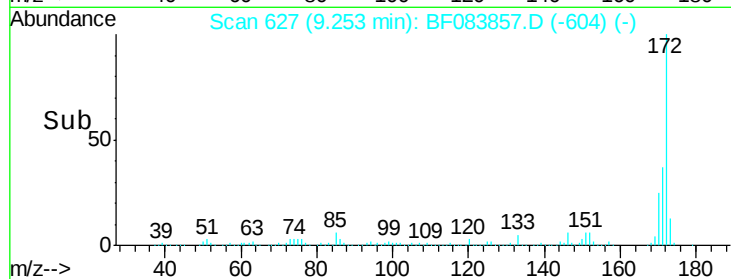
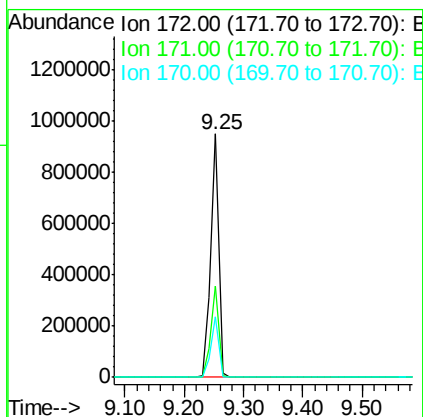
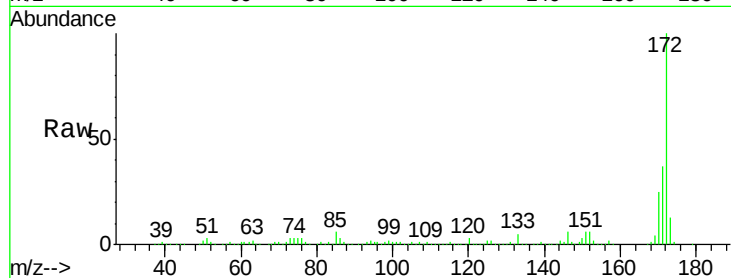




#44
 2-Fluorobiphenyl
 Concen: 72.06 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

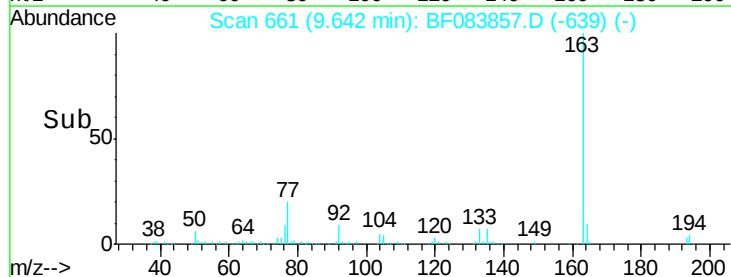
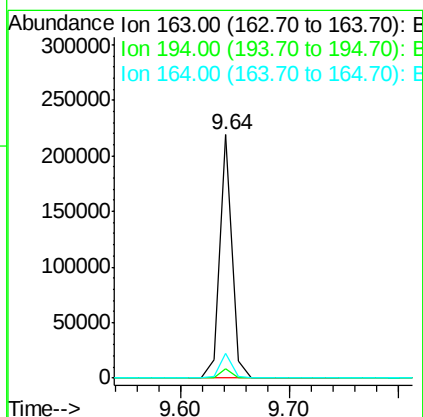
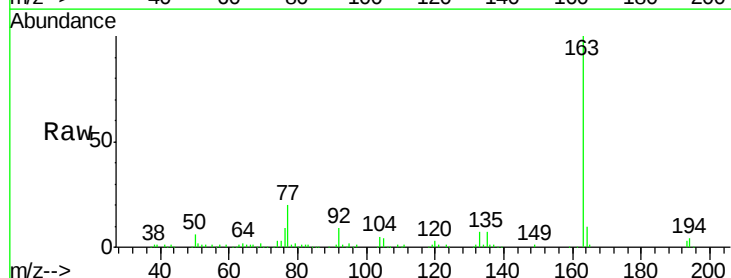
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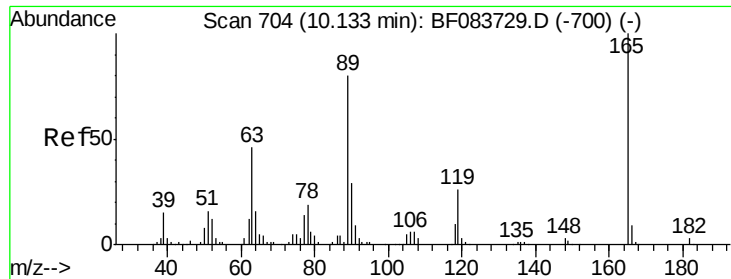
Tgt Ion:172 Resp: 891819
 Ion Ratio Lower Upper
 172 100
 171 37.4 28.6 42.8
 170 24.8 19.4 29.0



#49
 Dimethylphthalate
 Concen: 12.84 ng
 RT: 9.64 min Scan# 661
 Delta R.T. -0.05 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion:163 Resp: 173393
 Ion Ratio Lower Upper
 163 100
 194 3.7 2.8 4.2
 164 10.1 8.6 13.0

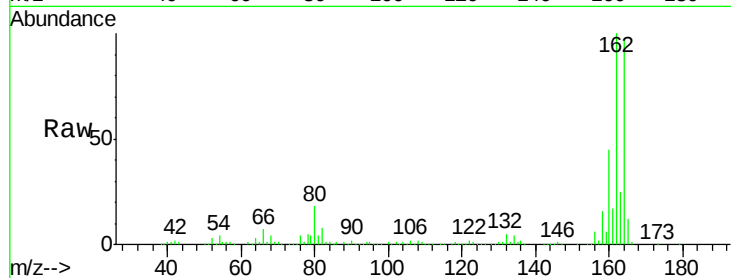




#56
 2,4-Dinitrotoluene
 Concen: 5.90 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.22 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	51.4	77.2#
89	1.2	72.6	108.8#
182	0.0	1.4	2.0#

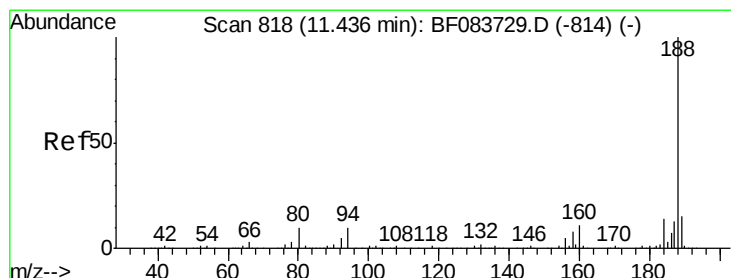
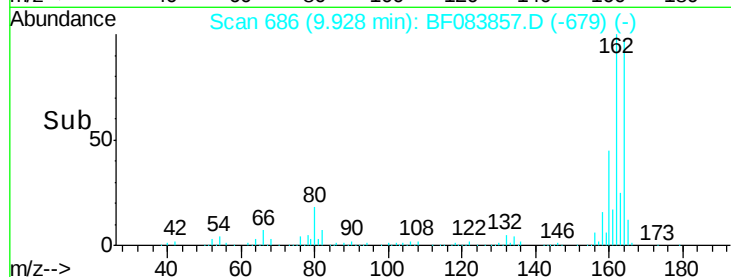
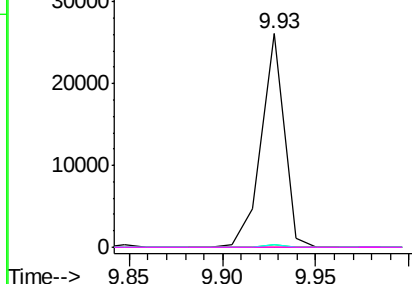


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

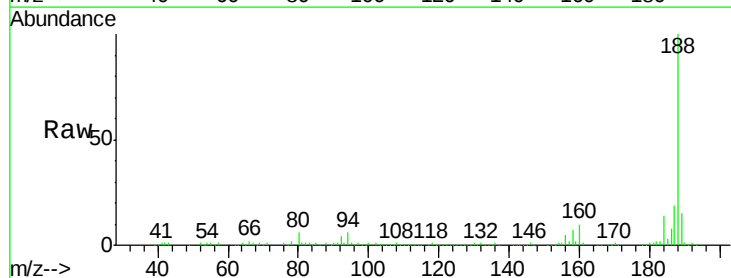
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

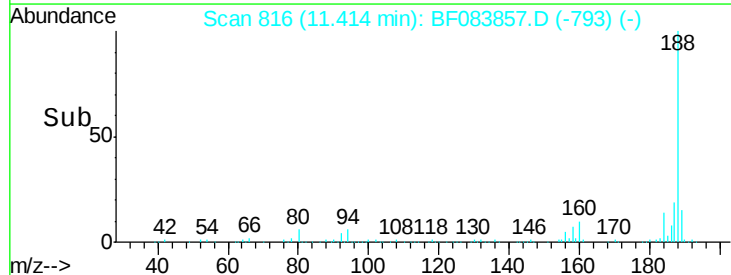
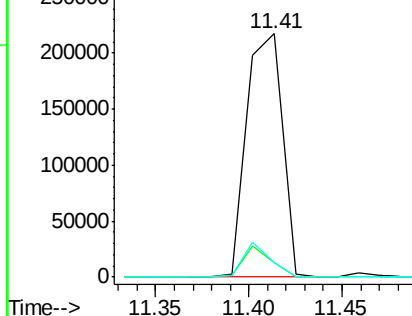
Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.1	9.4	14.2#
80	6.0	10.6	16.0#

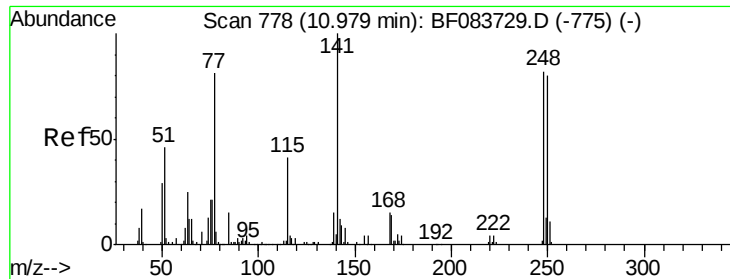


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

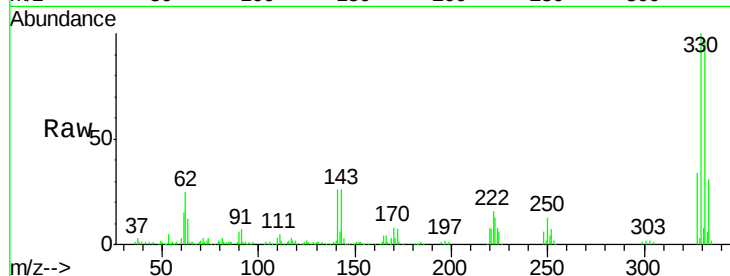




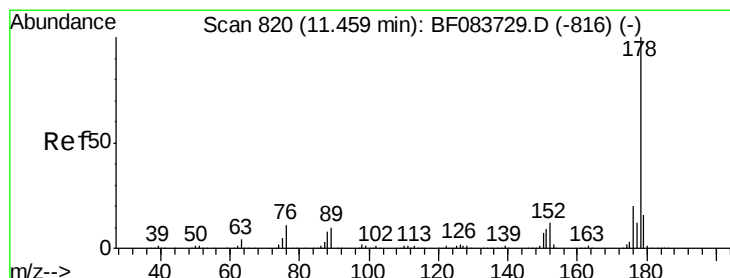
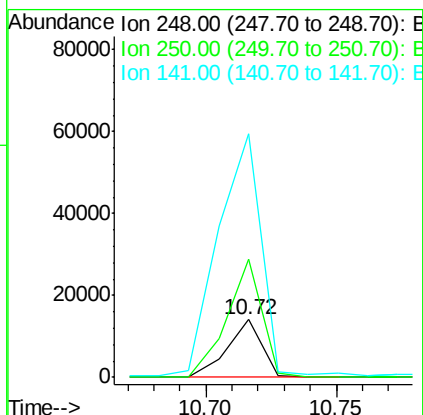
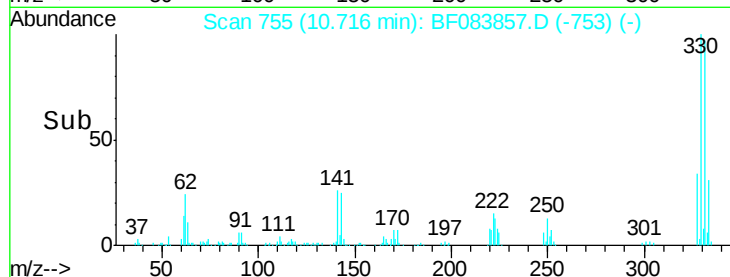
#66
 4-Bromophenyl-phenylether
 Concen: 4.04 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.27 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

Tgt Ion:248 Resp: 13125
 Ion Ratio Lower Upper
 248 100
 250 203.7 79.2 118.8#
 141 420.3 58.2 87.4#

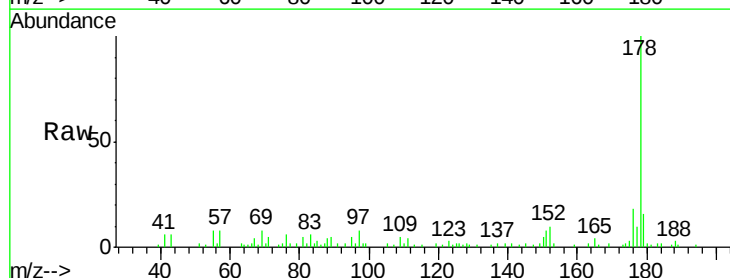


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

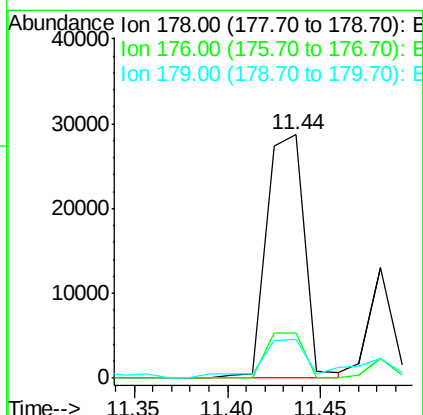
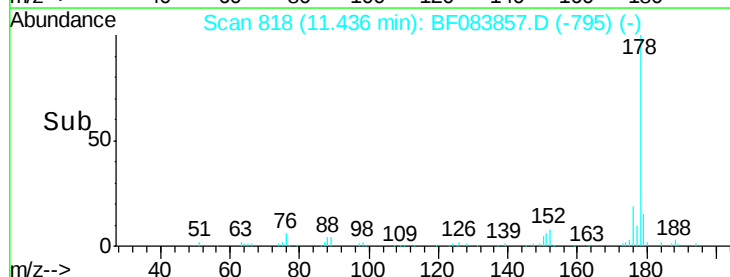


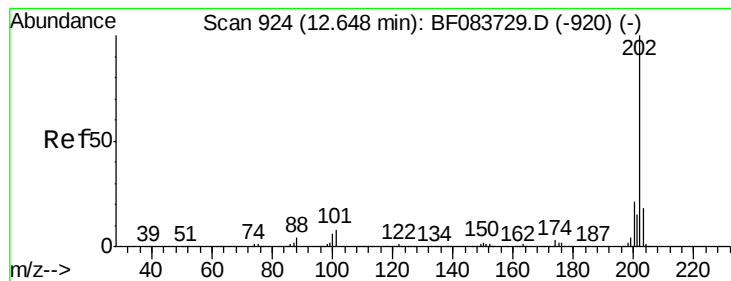
#70
 Phenanthrene
 Concen: 2.60 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion:178 Resp: 40116
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.7 23.5
 179 16.1 12.2 18.4



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





#74

Fluoranthene

Concen: 4.42 ng

RT: 12.61 min Scan# 921

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-004

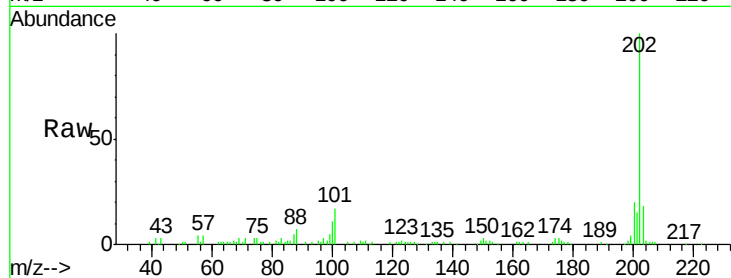
Tgt Ion:202 Resp: 70479

Ion Ratio Lower Upper

202 100

101 16.5 0.0 31.5

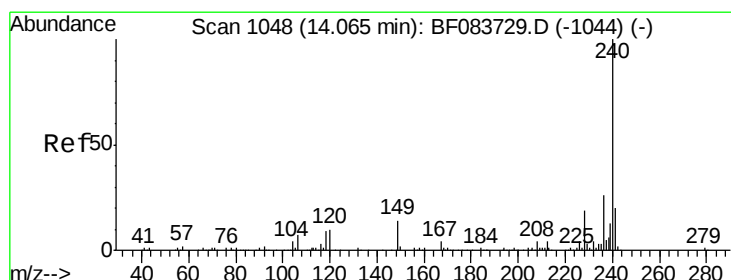
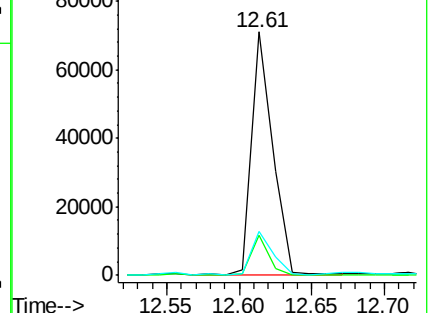
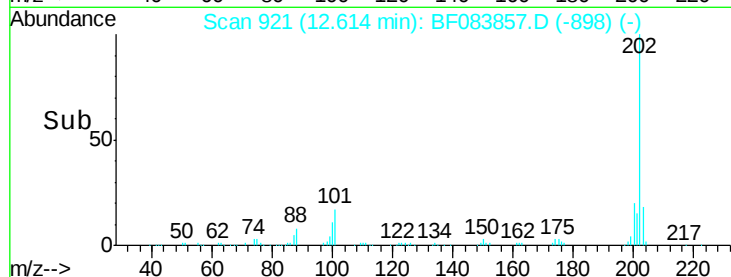
203 18.3 0.0 37.6



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: 14.04 min Scan# 1046

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

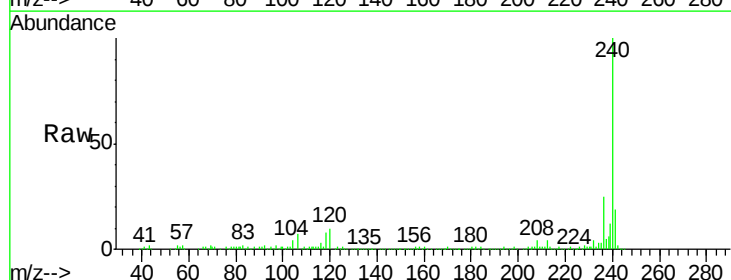
Tgt Ion:240 Resp: 204128

Ion Ratio Lower Upper

240 100

120 9.9 8.1 12.1

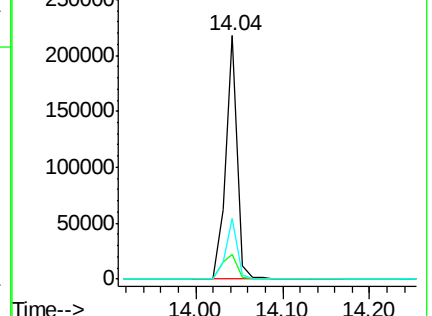
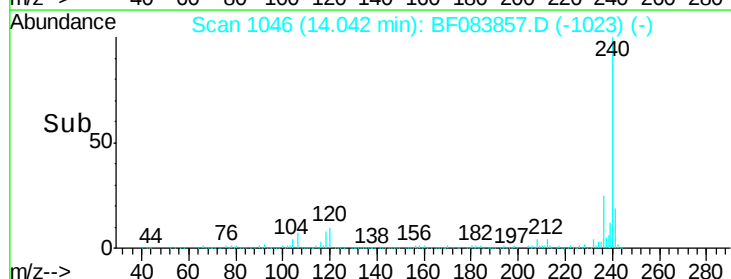
236 24.9 20.8 31.2

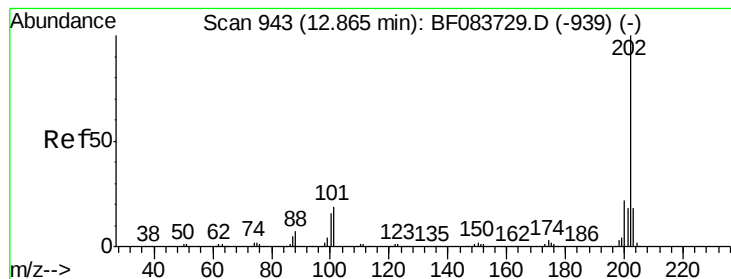


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 4.42 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-004

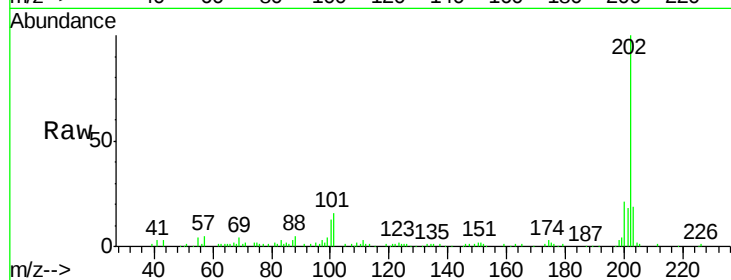
Tgt Ion:202 Resp: 71349

Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

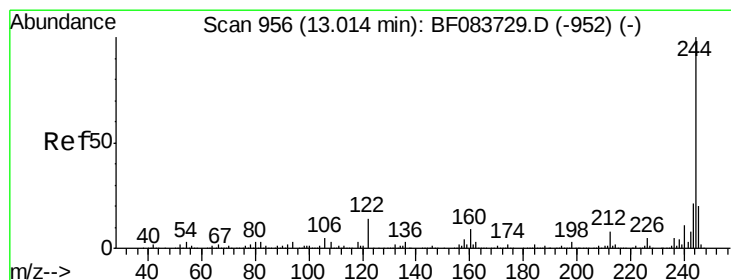
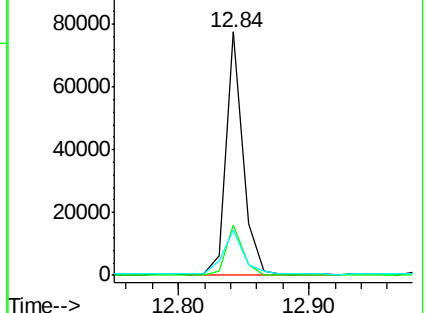
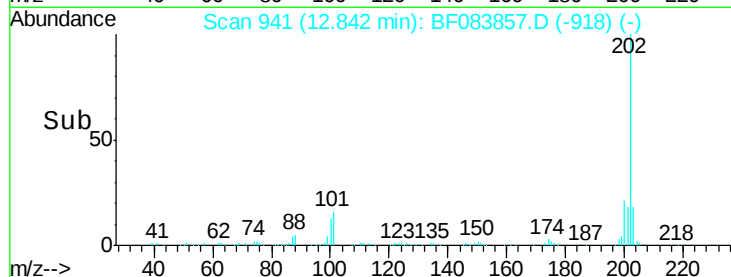
203 18.6 14.3 21.5



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: 71.83 ng

RT: 12.99 min Scan# 954

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

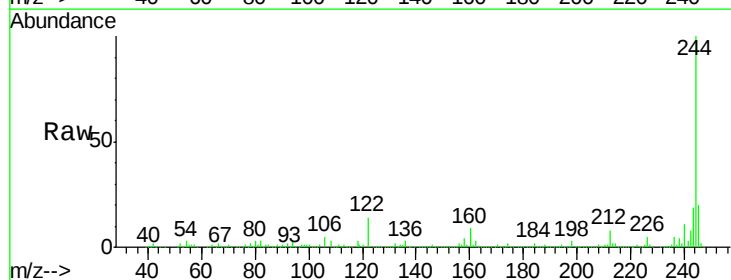
Tgt Ion:244 Resp: 681646

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

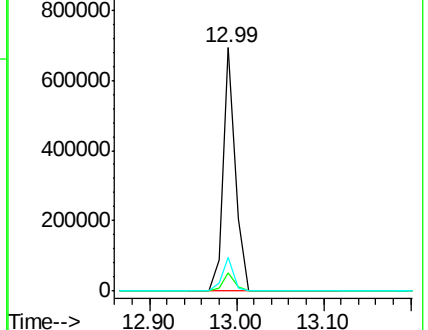
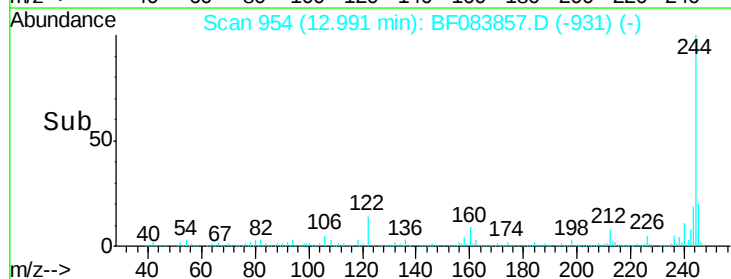
122 13.8 11.0 16.6

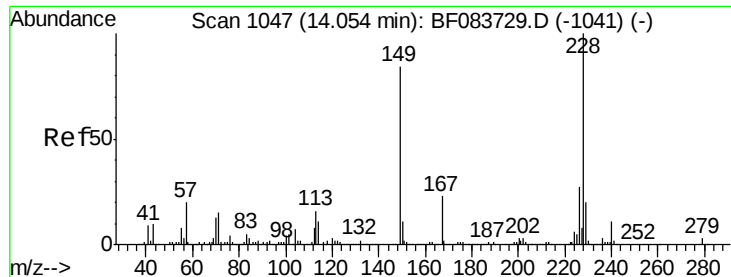


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

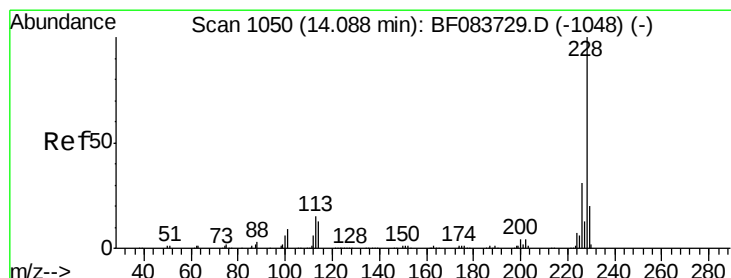
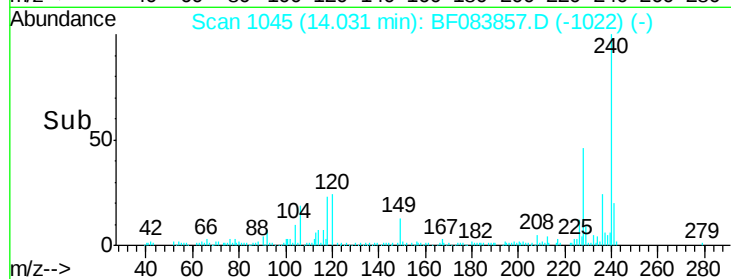
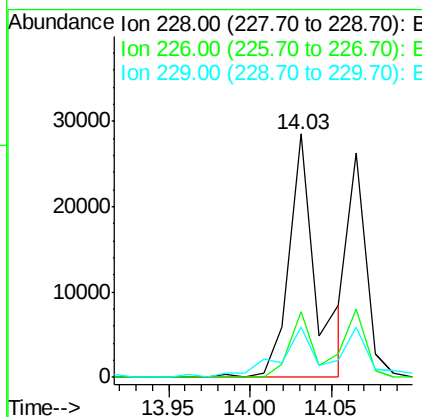
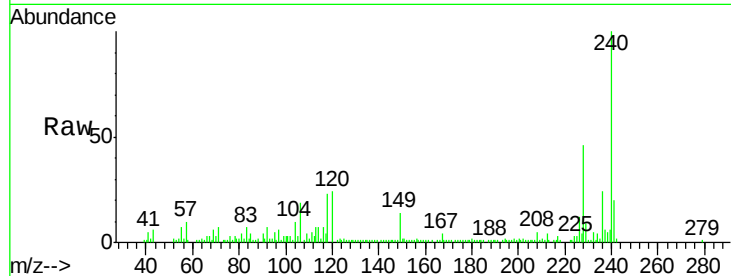




#80
 Benzo(a)anthracene
 Concen: 2.86 ng
 RT: 14.03 min Scan# 1045
 Delta R.T. -0.03 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

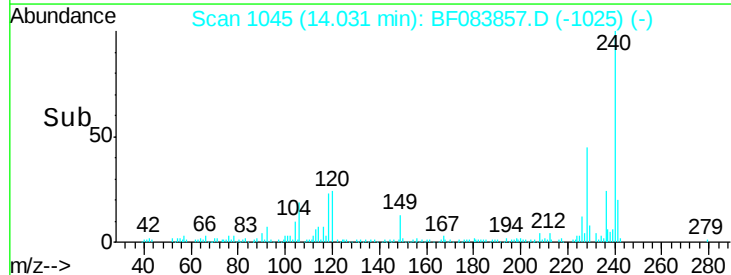
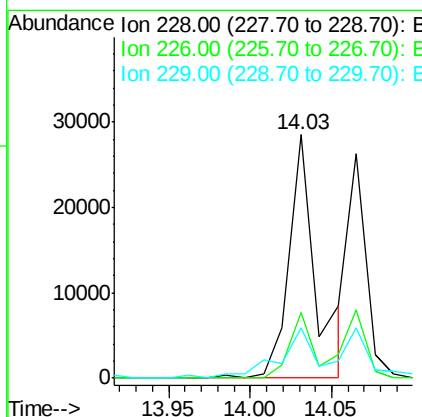
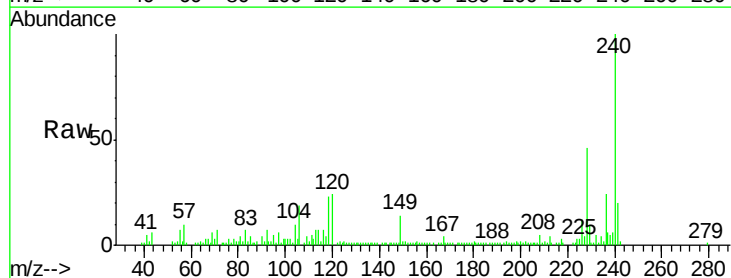
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-004

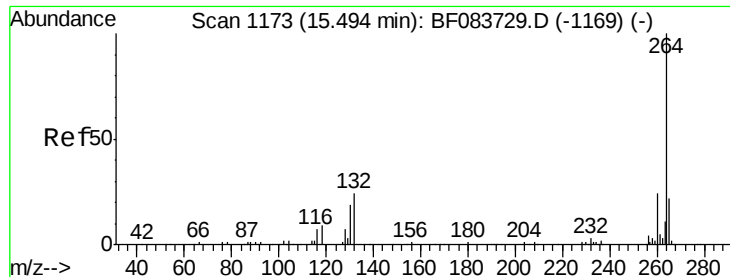
Tgt Ion:	228	Resp:	33228
Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.3	33.5
229	20.5	15.7	23.5



#82
 Chrysene
 Concen: 2.93 ng
 RT: 14.03 min Scan# 1045
 Delta R.T. -0.07 min
 Lab File: BF083857.D
 Acq: 16 Dec 2015 19:25

Tgt Ion:	228	Resp:	33228
Ion	Ratio	Lower	Upper
228	100		
226	26.8	24.7	37.1
229	20.5	16.3	24.5

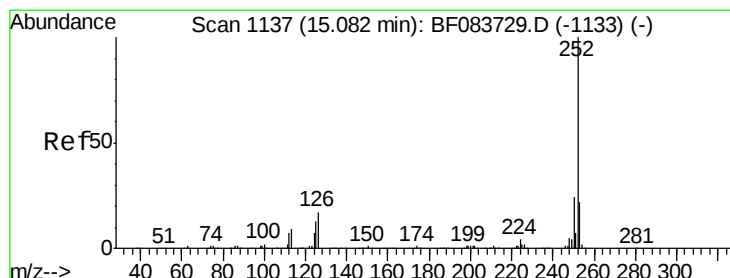
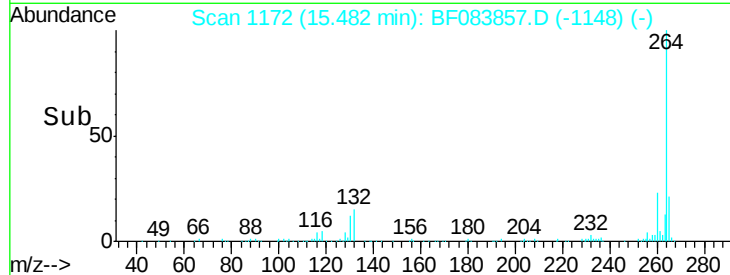
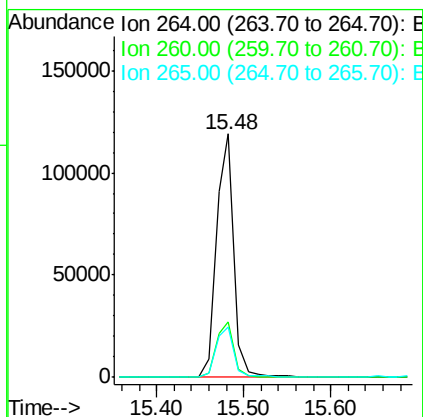
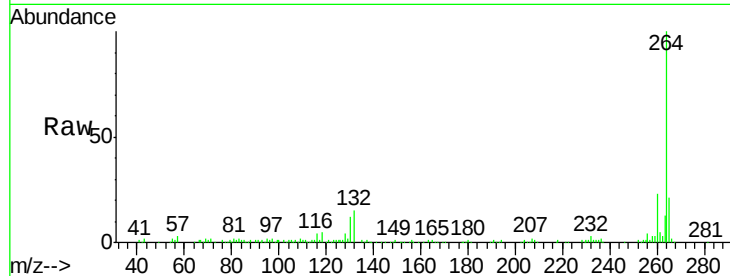




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.48 min Scan# 1172
Delta R.T. -0.02 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

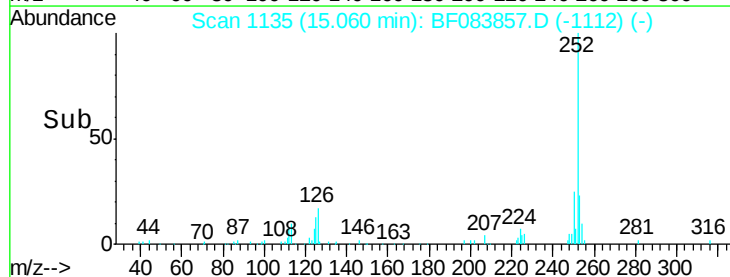
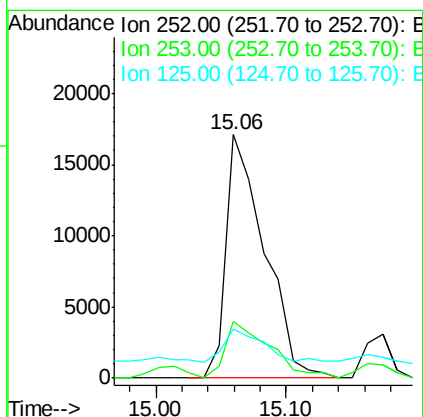
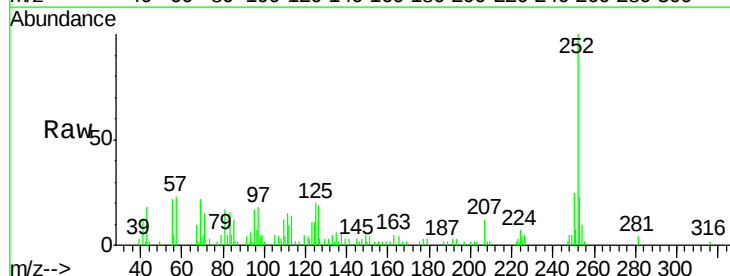
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-004

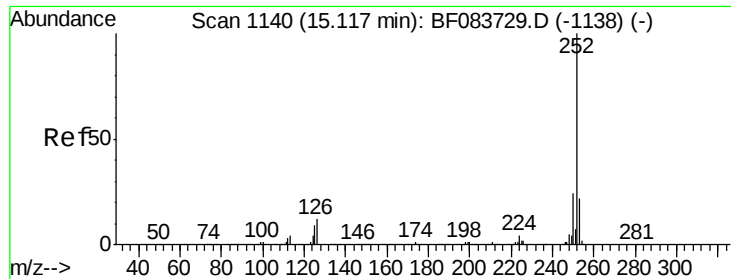
Tgt Ion:264 Resp: 166120
Ion Ratio Lower Upper
264 100
260 22.9 19.4 29.0
265 20.9 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 3.31 ng
RT: 15.06 min Scan# 1135
Delta R.T. -0.03 min
Lab File: BF083857.D
Acq: 16 Dec 2015 19:25

Tgt Ion:252 Resp: 35086
Ion Ratio Lower Upper
252 100
253 23.4 18.2 27.4
125 20.4 8.2 12.4#





#88

Benzo(k)fluoranthene

Concen: 3.65 ng

RT: 15.06 min Scan# 1135

Delta R.T. -0.07 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-004

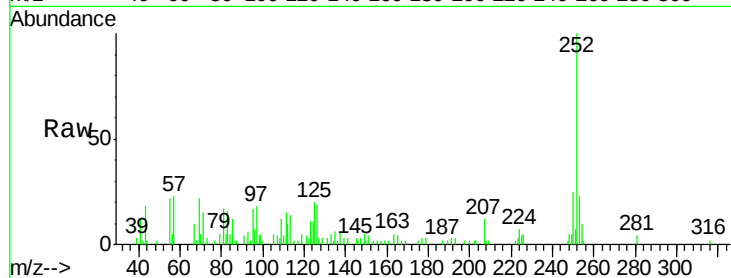
Tgt Ion:252 Resp: 35086

Ion Ratio Lower Upper

252 100

253 23.4 18.6 27.8

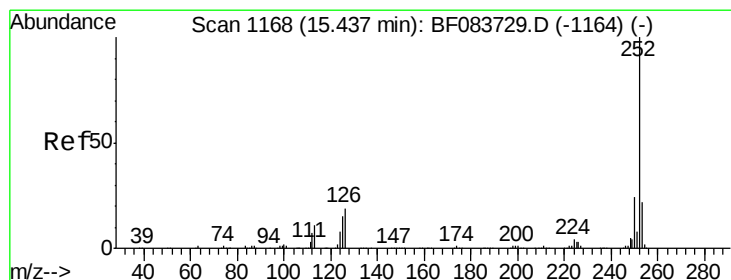
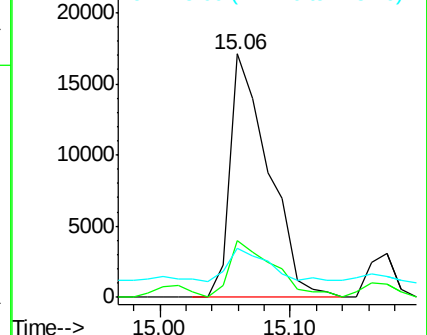
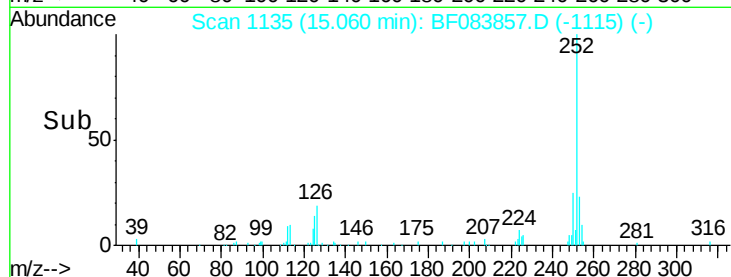
125 20.4 11.5 17.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 2.06 ng

RT: 15.41 min Scan# 1166

Delta R.T. -0.03 min

Lab File: BF083857.D

Acq: 16 Dec 2015 19:25

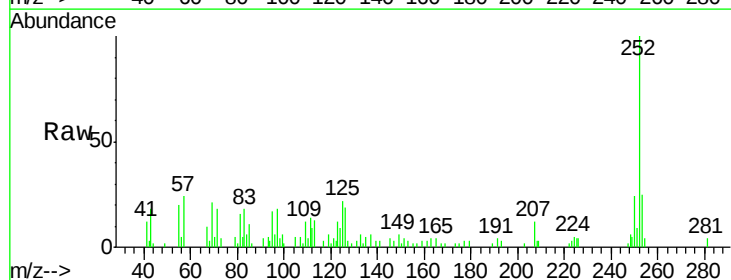
Tgt Ion:252 Resp: 19441

Ion Ratio Lower Upper

252 100

253 24.8 17.5 26.3

125 21.6 11.0 16.6#



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

