

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
 Data File : BF083856.D
 Acq On : 16 Dec 2015 18:57
 Operator : UM/SJ
 Sample : G4836-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

Quant Time: Dec 17 03:24:39 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

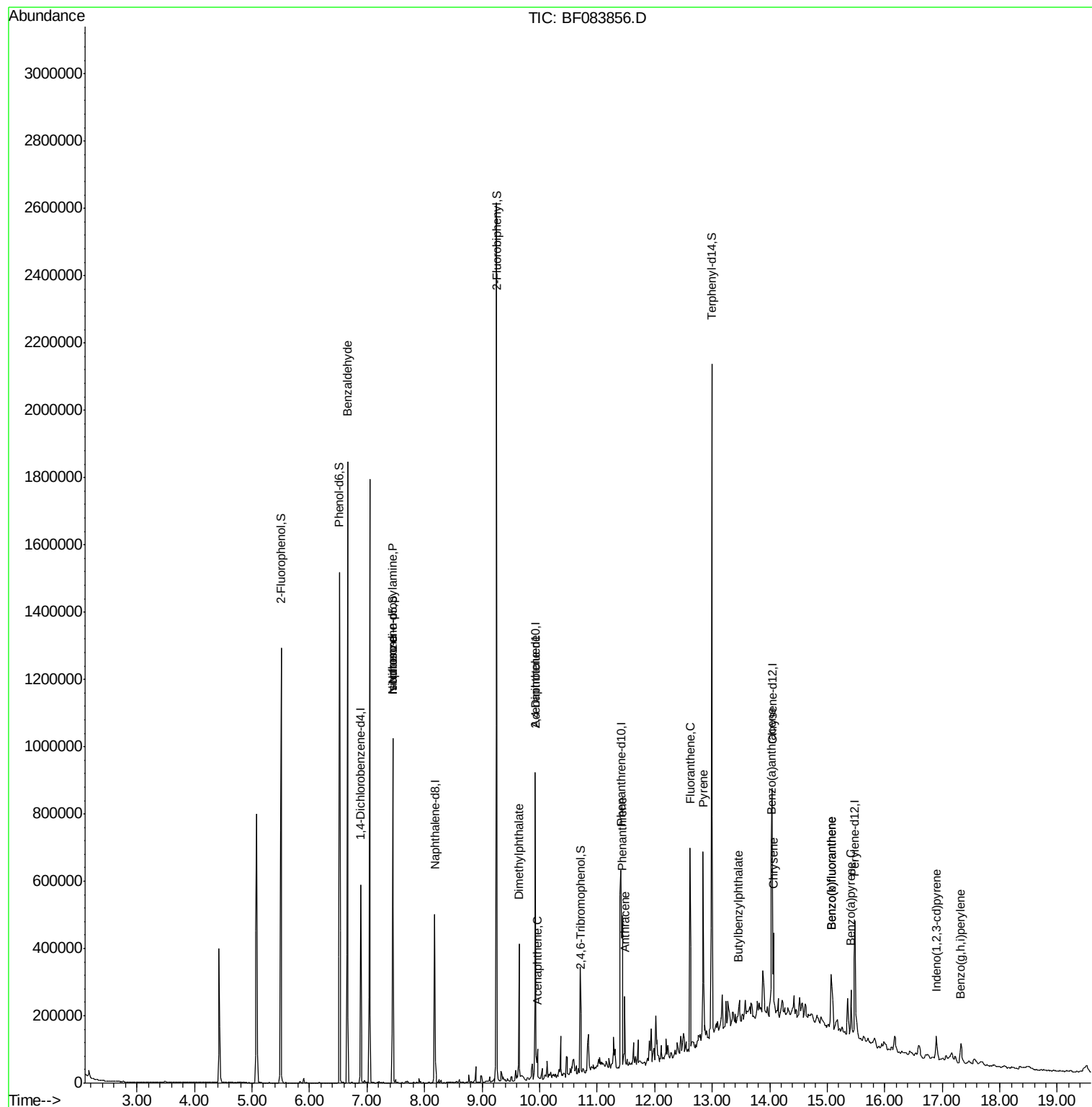
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	87345	20.00	ng	-0.03
21) Naphthalene-d8	8.18	136	353084	20.00	ng	-0.03
38) Acenaphthene-d10	9.93	164	176408	20.00	ng	-0.03
63) Phenanthrene-d10	11.41	188	307628	20.00	ng	-0.03
75) Chrysene-d12	14.04	240	202912	20.00	ng	-0.03
86) Perylene-d12	15.48	264	168278	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	438816	81.05	ng	-0.02
7) Phenol-d6	6.52	99	614664	89.65	ng	-0.02
23) Nitrobenzene-d5	7.45	82	410991	65.12	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	39915	22.21	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	876159	68.77	ng	-0.03
78) Terphenyl-d14	12.99	244	668453	70.86	ng	-0.03
Target Compounds						Qvalue
9) Benzaldehyde	6.66	77	11001	2.99	ng	95
19) n-Nitroso-di-n-propylamine	7.45	70	53613	12.77	ng	# 72
25) Isophorone	7.45	82	375690	30.34	ng	# 69
49) Dimethylphthalate	9.64	163	149372	10.86	ng	99
51) Acenaphthene	9.96	154	23649	2.01	ng	98
56) 2,4-Dinitrotoluene	9.93	165	23877	6.26	ng	# 13
70) Phenanthrene	11.44	178	239943	14.68	ng	98
71) Anthracene	11.48	178	75555	4.45	ng	98
74) Fluoranthene	12.61	202	273974	16.22	ng	96
77) Pyrene	12.84	202	238597	14.88	ng	99
79) Butylbenzylphthalate	13.46	149	14460	2.10	ng	# 79
80) Benzo(a)anthracene	14.03	228	116286	10.08	ng	99
82) Chrysene	14.07	228	76319	6.78	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	49024	4.44	ng	# 100
87) Benzo(b)fluoranthene	15.07	252	128665	11.98	ng	# 95
88) Benzo(k)fluoranthene	15.07	252	128665	13.23	ng	98
89) Benzo(a)pyrene	15.41	252	68625	7.16	ng	# 94
91) Benzo(g,h,i)perylene	17.32	276	47545	4.86	ng	97

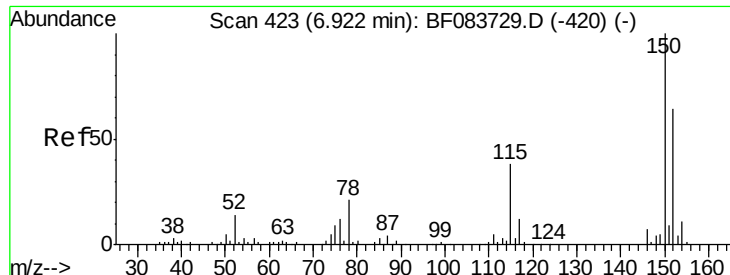
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

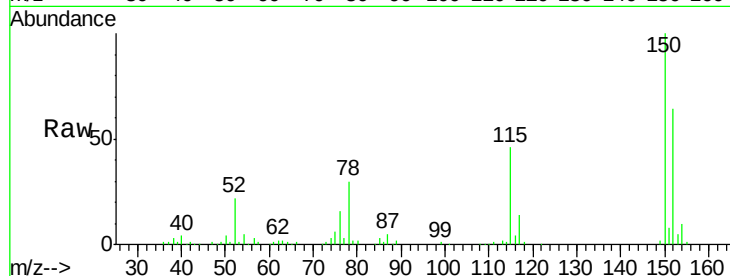
Tgt Ion:152 Resp: 87345

Ion Ratio Lower Upper

152 100

150 157.0 126.5 189.7

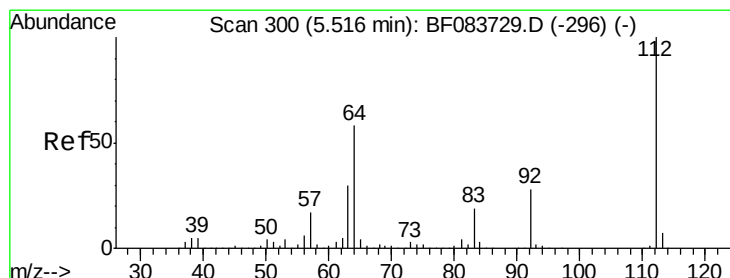
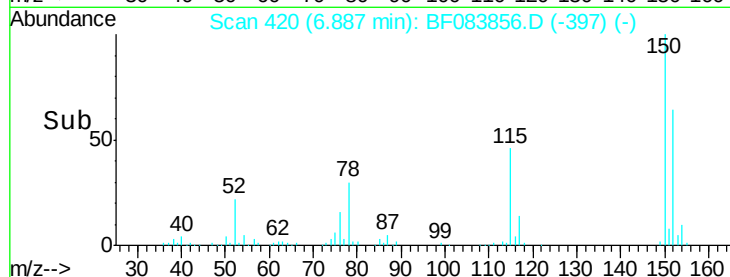
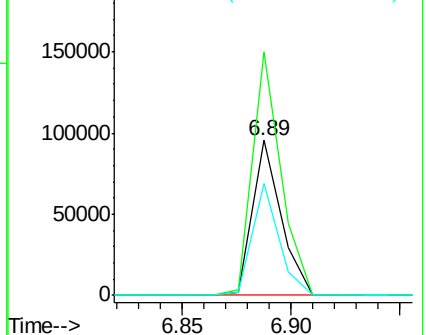
115 71.8 52.3 78.5



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: 81.05 ng

RT: 5.50 min Scan# 299

Delta R.T. -0.02 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

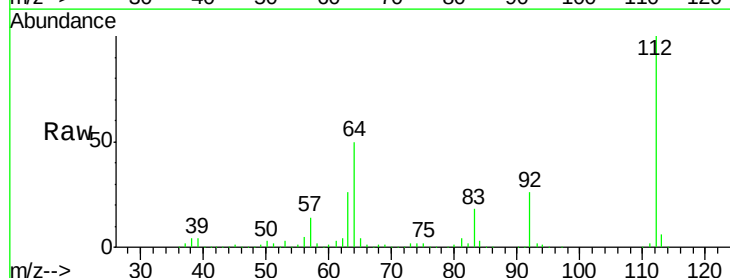
Tgt Ion:112 Resp: 438816

Ion Ratio Lower Upper

112 100

64 50.3 50.5 75.7#

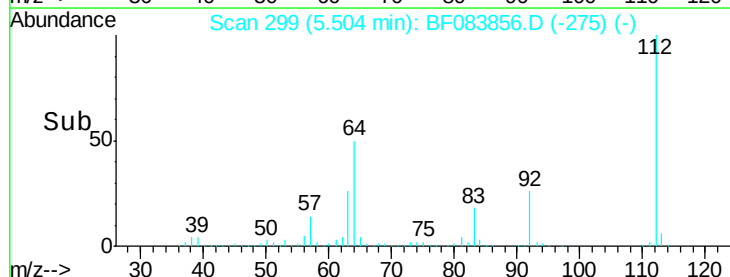
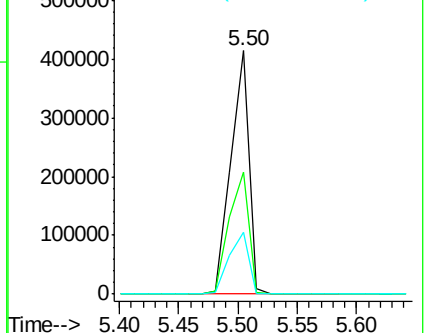
63 25.5 25.8 38.6#

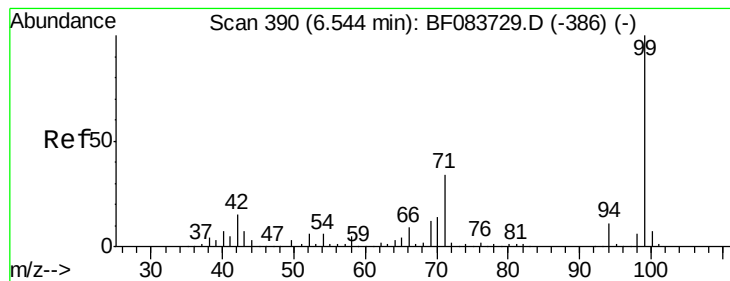


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 89.65 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

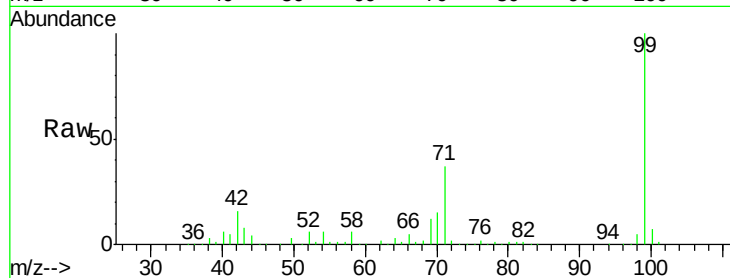
Tgt Ion: 99 Resp: 614664

Ion Ratio Lower Upper

99 100

42 16.4 17.3 25.9#

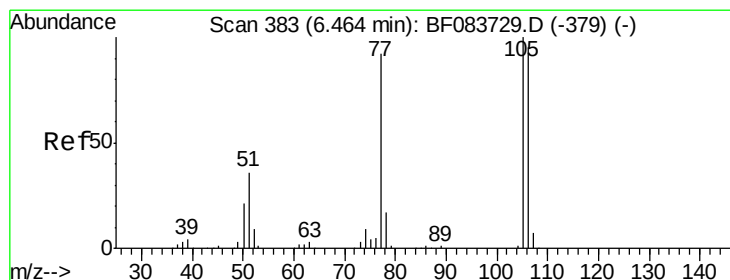
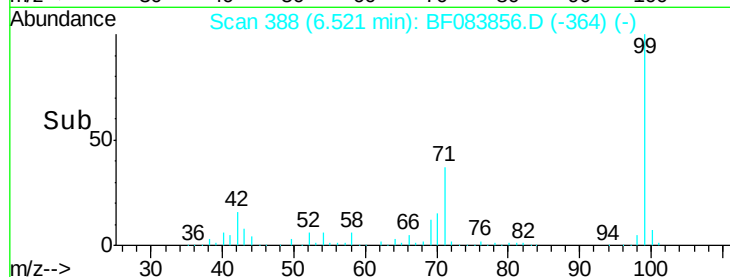
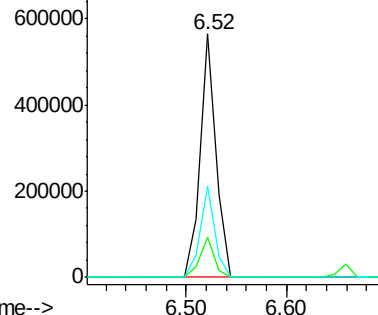
71 37.4 26.6 40.0



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: 2.99 ng

RT: 6.66 min Scan# 400

Delta R.T. 0.19 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

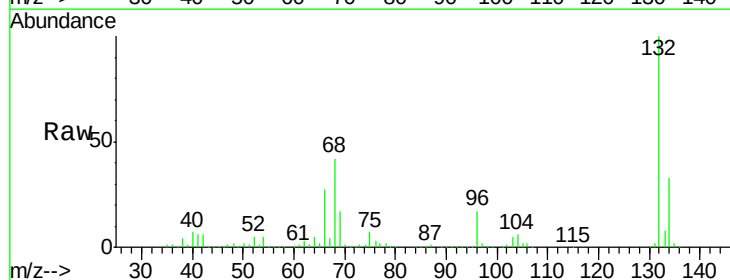
Tgt Ion: 77 Resp: 11001

Ion Ratio Lower Upper

77 100

105 85.1 71.8 111.8

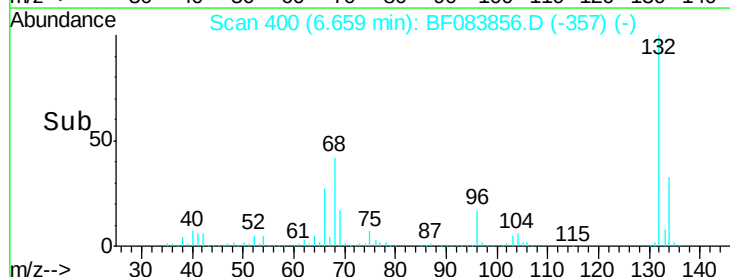
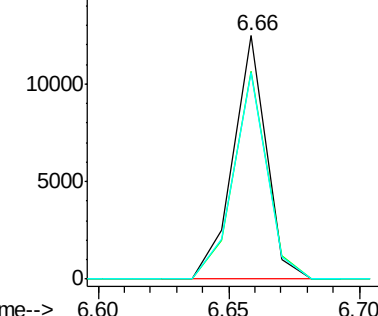
106 85.1 66.8 106.8

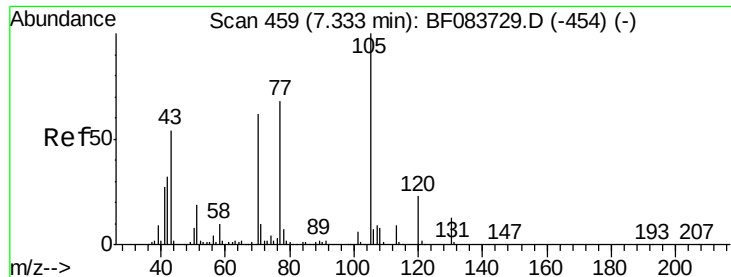


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

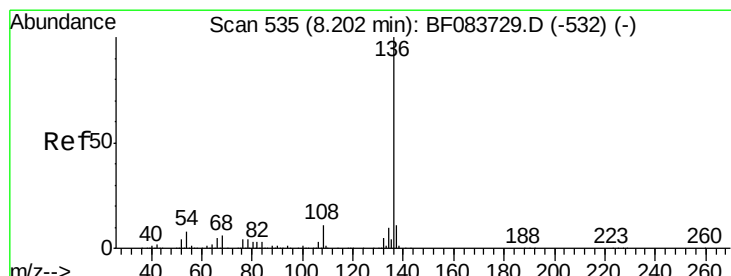
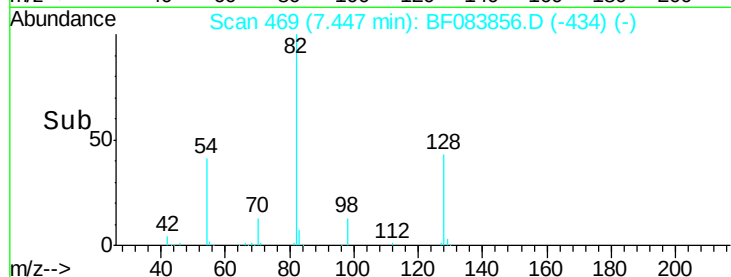
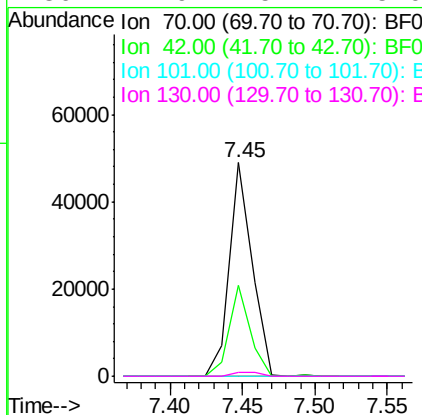
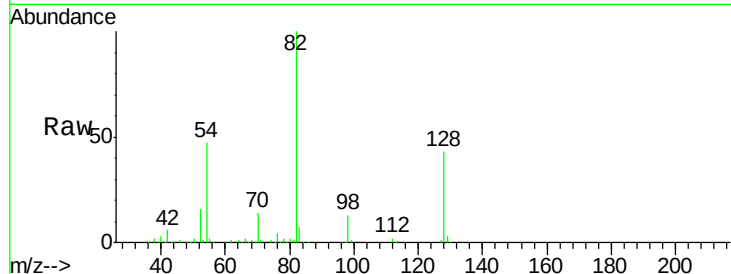




#19
n-Nitroso-di-n-propylamine
Concen: 12.77 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.10 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

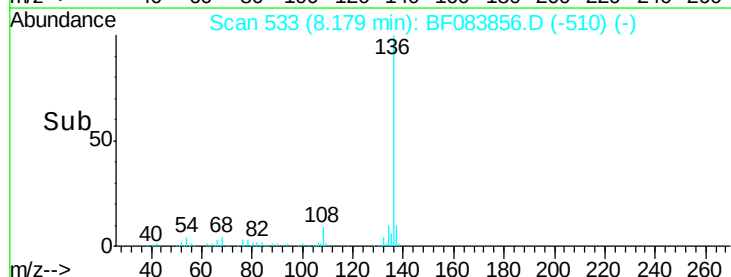
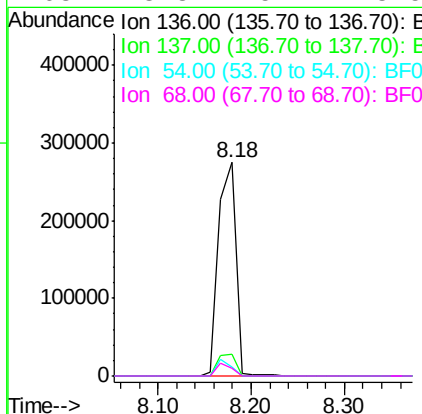
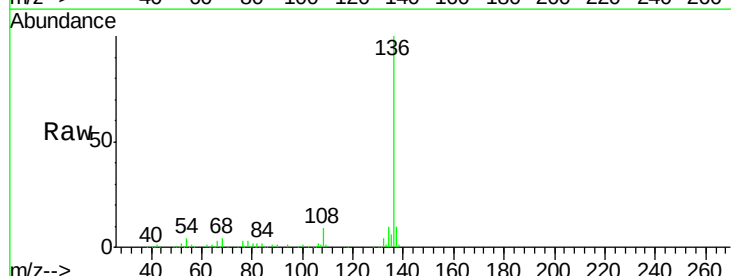
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

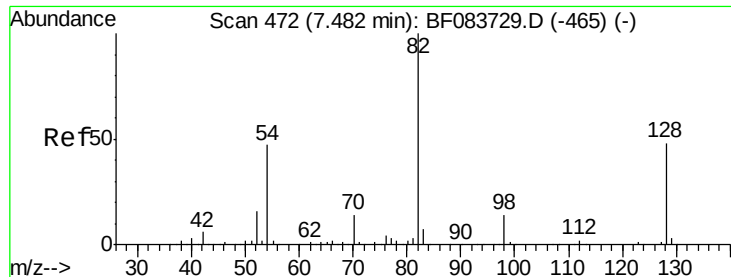
Tgt Ion: 70 Resp: 53613
Ion Ratio Lower Upper
70 100
42 42.3 49.2 73.8#
101 0.0 7.1 10.7#
130 1.9 15.4 23.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion: 136 Resp: 353084
Ion Ratio Lower Upper
136 100
137 10.4 8.7 13.1
54 4.3 7.8 11.6#
68 3.8 5.7 8.5#

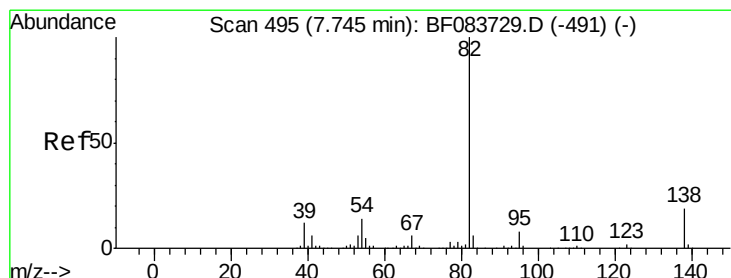
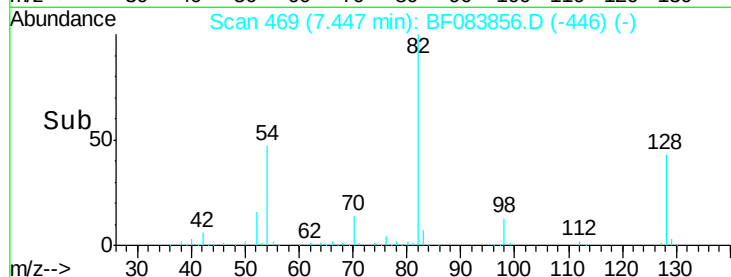
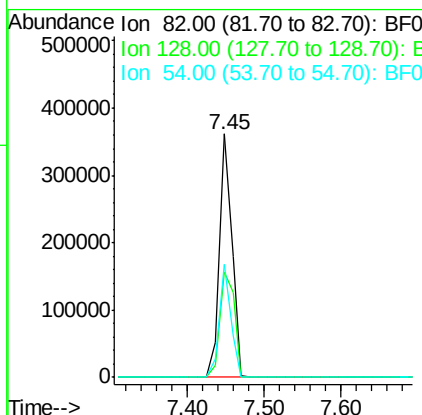
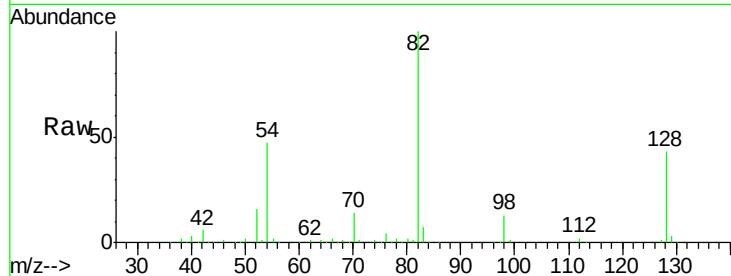




#23
 Nitrobenzene-d5
 Concen: 65.12 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

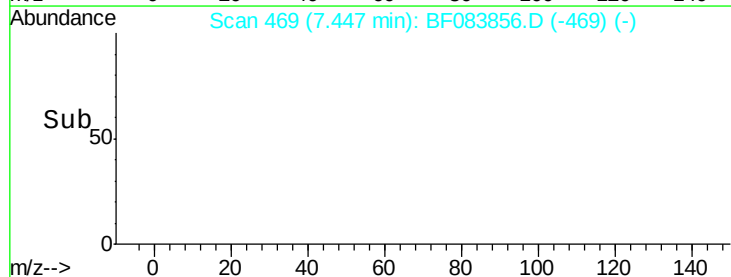
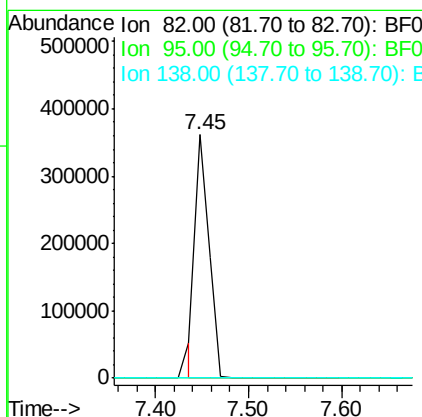
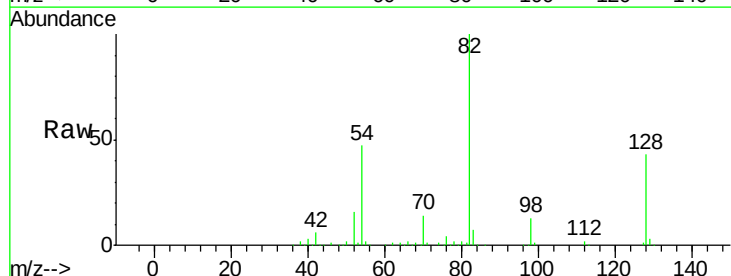
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

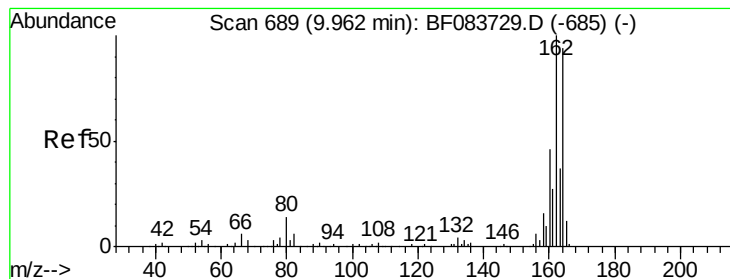
Tgt Ion: 82 Resp: 410991
 Ion Ratio Lower Upper
 82 100
 128 43.4 30.7 46.1
 54 46.5 42.5 63.7



#25
 Isophorone
 Concen: 30.34 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.30 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion: 82 Resp: 375690
 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: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

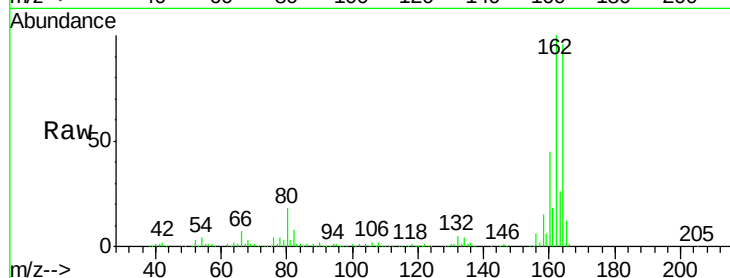
Tgt Ion:164 Resp: 176408

Ion Ratio Lower Upper

164 100

162 104.7 78.8 118.2

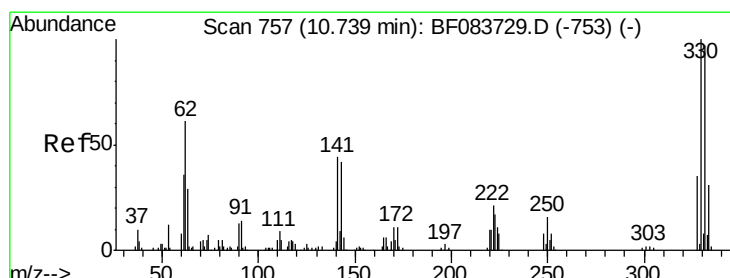
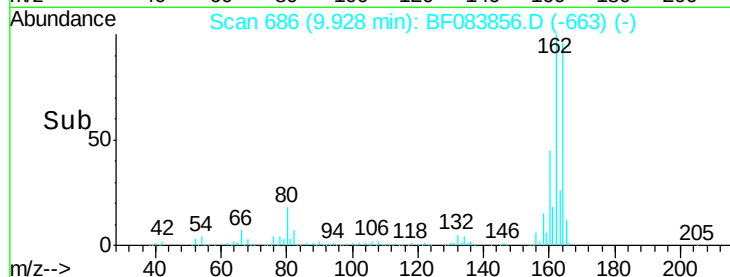
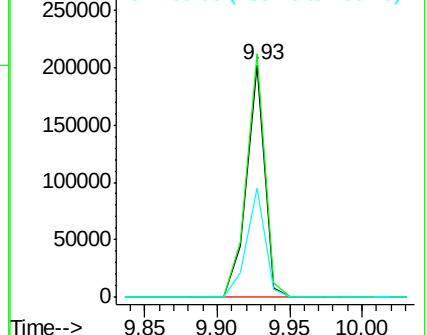
160 46.7 33.4 50.2



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: 22.21 ng

RT: 10.72 min Scan# 755

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

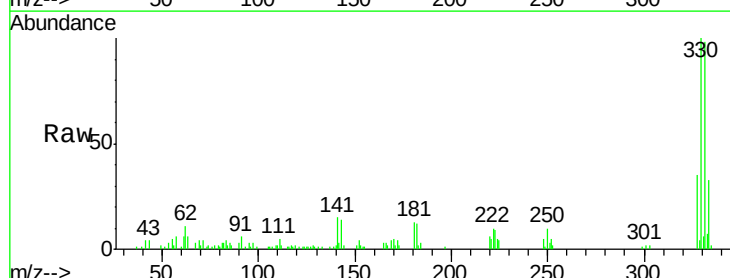
Tgt Ion:330 Resp: 39915

Ion Ratio Lower Upper

330 100

332 97.9 0.0 0.0#

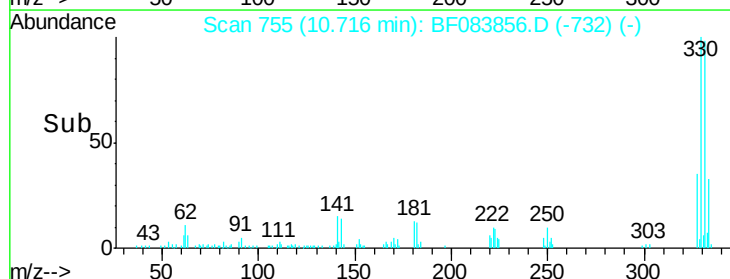
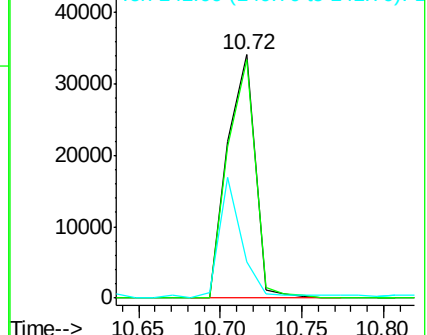
141 45.0 0.0 0.0#

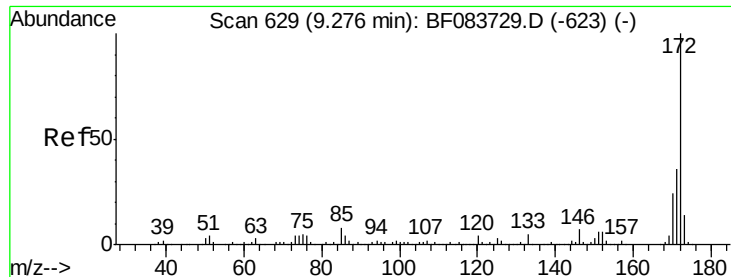


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

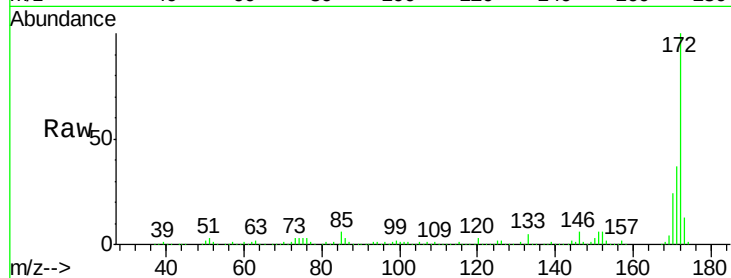




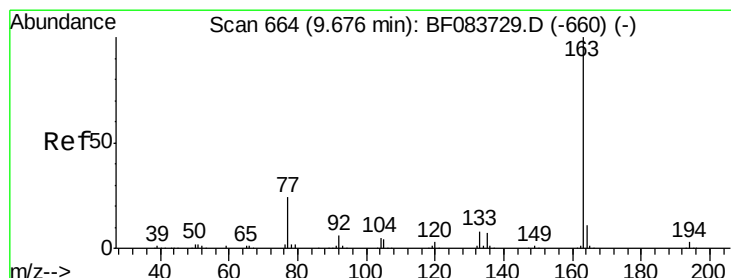
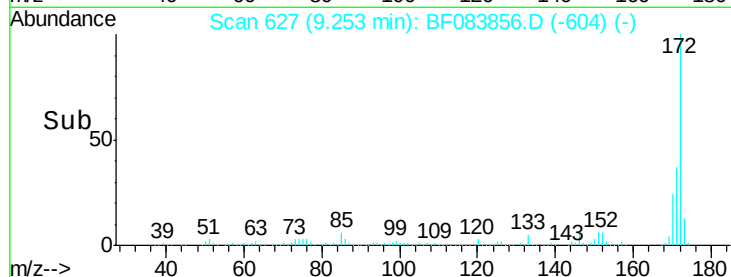
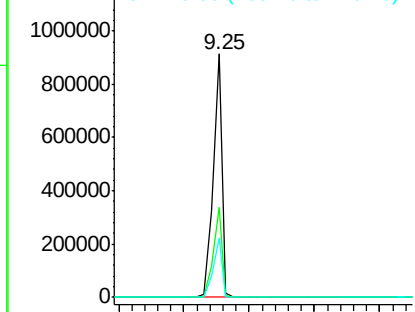
#44
 2-Fluorobiphenyl
 Concen: 68.77 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Instrument :
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Tgt Ion:172 Resp: 876159
 Ion Ratio Lower Upper
 172 100
 171 37.0 28.6 42.8
 170 24.1 19.4 29.0

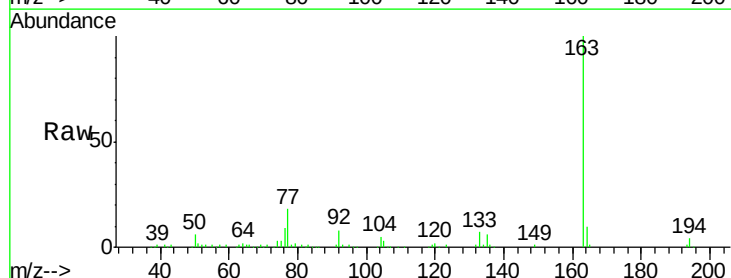


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

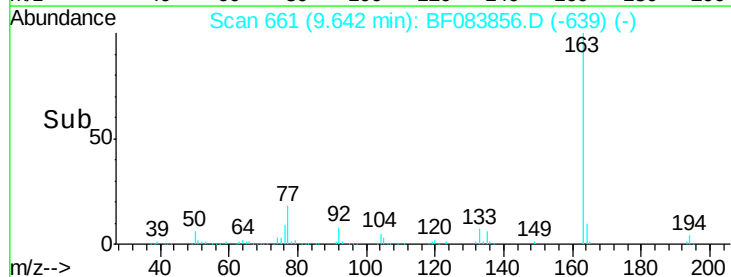
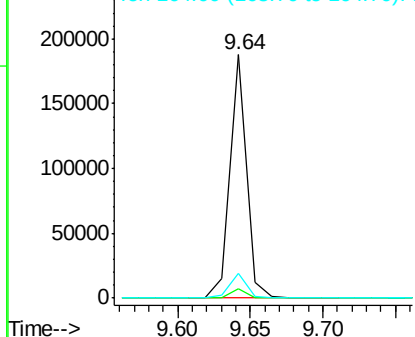


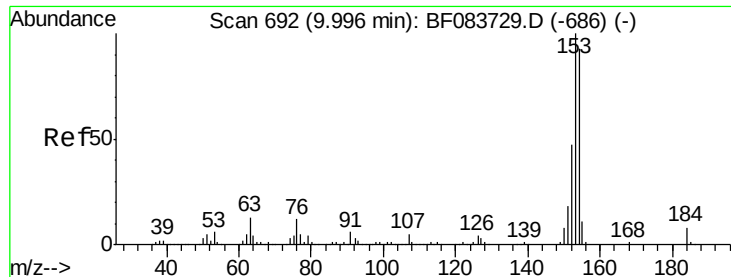
#49
 Dimethylphthalate
 Concen: 10.86 ng
 RT: 9.64 min Scan# 661
 Delta R.T. -0.05 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion:163 Resp: 149372
 Ion Ratio Lower Upper
 163 100
 194 3.6 2.8 4.2
 164 10.1 8.6 13.0



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





#51

Acenaphthene

Concen: 2.01 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

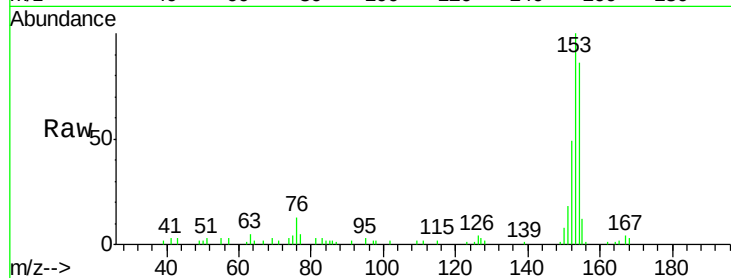
Tgt Ion:154 Resp: 23649

Ion Ratio Lower Upper

154 100

153 116.0 91.4 137.0

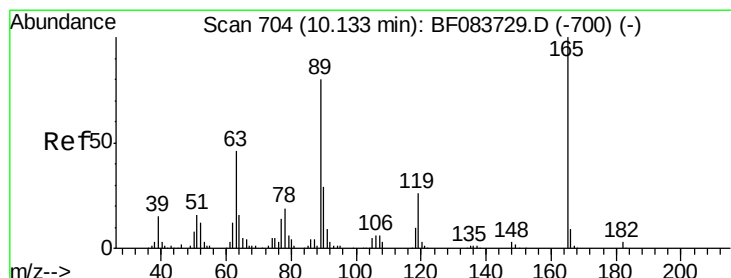
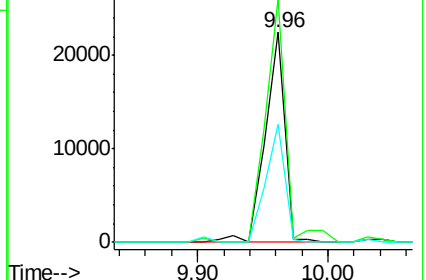
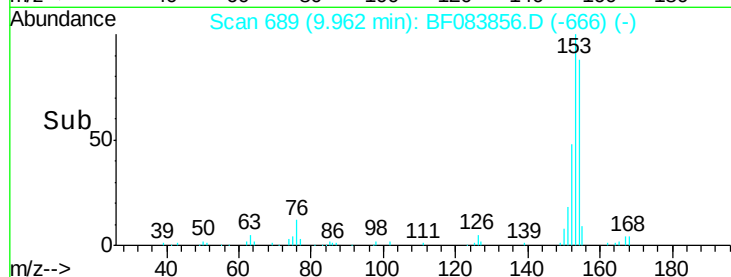
152 56.5 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

2,4-Dinitrotoluene

Concen: 6.26 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.22 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Tgt Ion:165 Resp: 23877

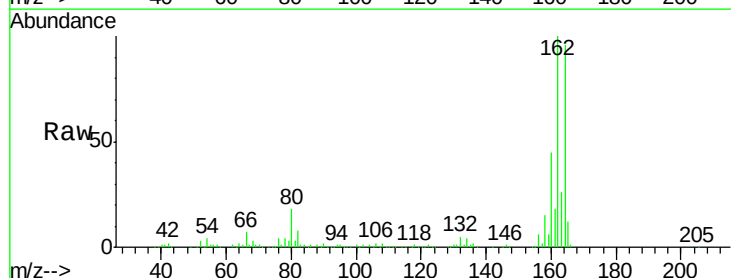
Ion Ratio Lower Upper

165 100

63 1.3 51.4 77.2#

89 1.7 72.6 108.8#

182 0.0 1.4 2.0#

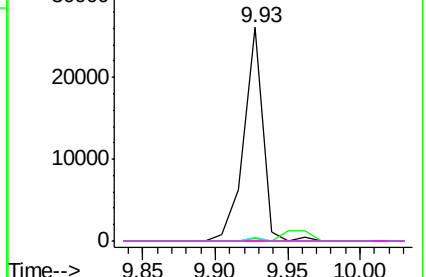
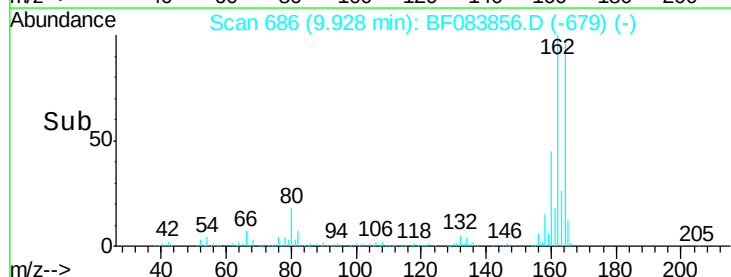


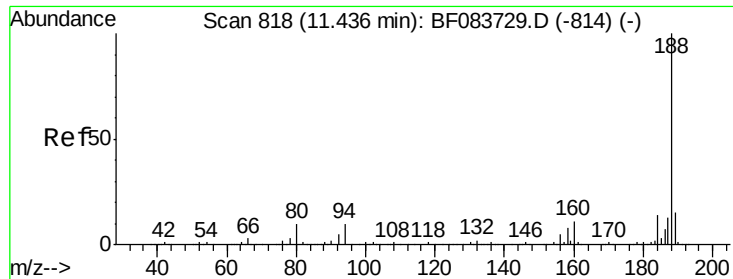
Abundance Ion 165.00 (164.70 to 165.70): E

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

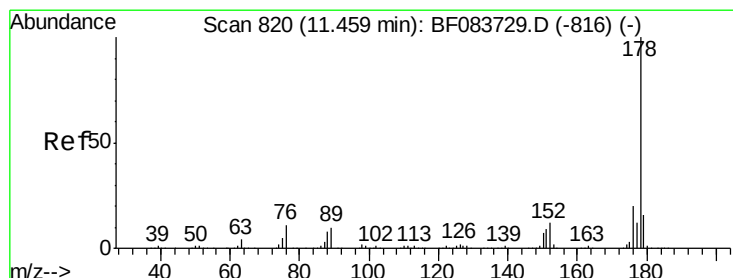
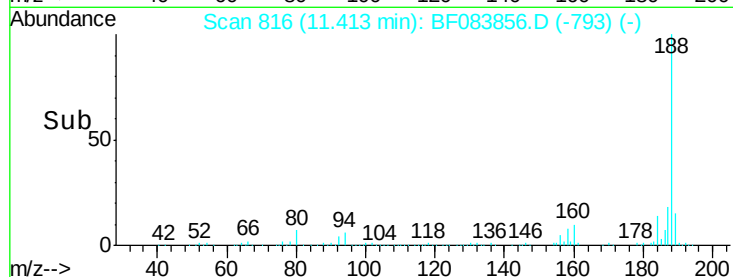
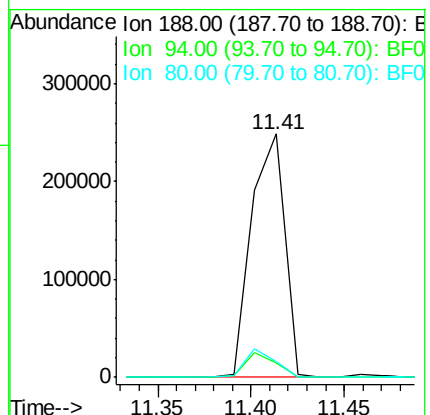
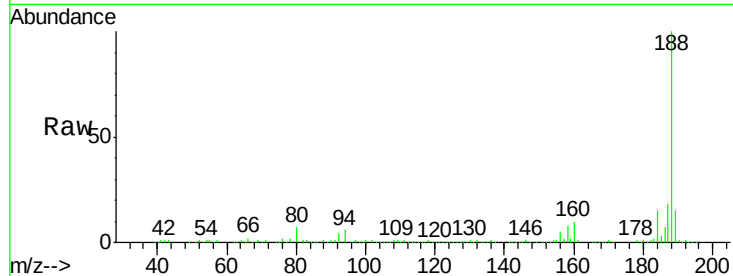




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

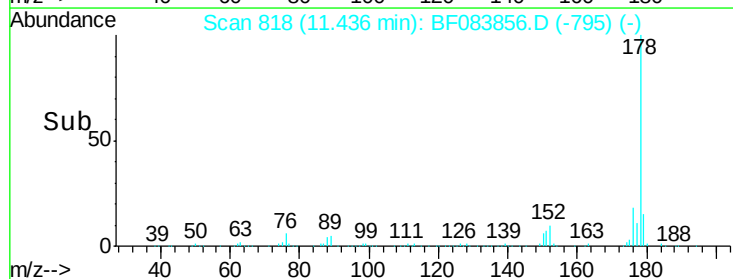
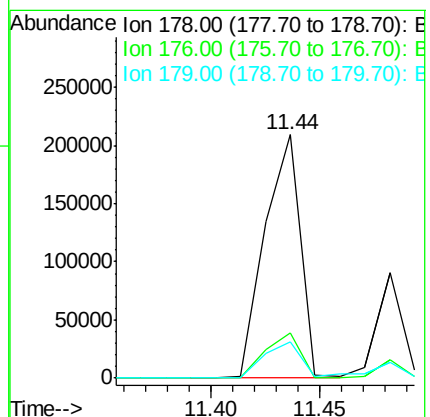
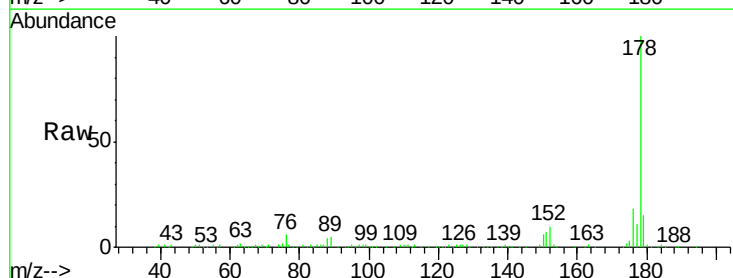
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

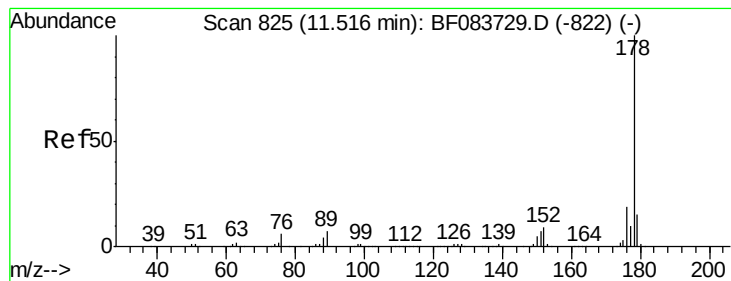
Tgt Ion:188 Resp: 307628
Ion Ratio Lower Upper
188 100
94 6.0 9.4 14.2#
80 6.6 10.6 16.0#



#70
Phenanthrene
Concen: 14.68 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion:178 Resp: 239943
Ion Ratio Lower Upper
178 100
176 18.4 15.7 23.5
179 14.7 12.2 18.4





#71

Anthracene

Concen: 4.45 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

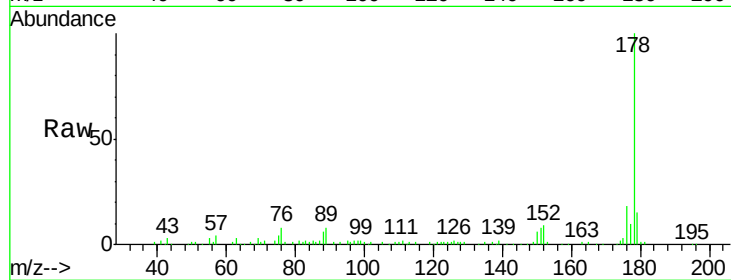
Tgt Ion:178 Resp: 75555

Ion Ratio Lower Upper

178 100

176 17.8 15.2 22.8

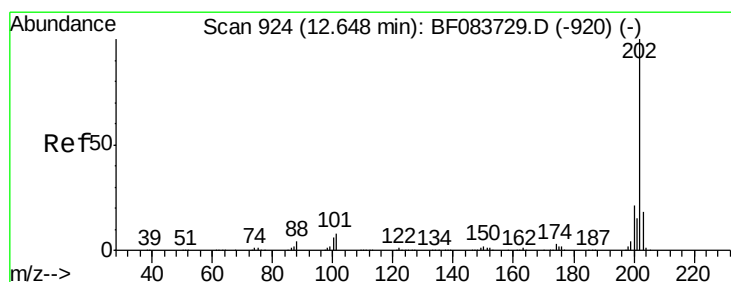
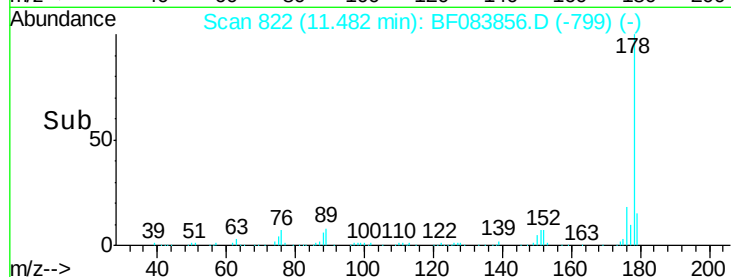
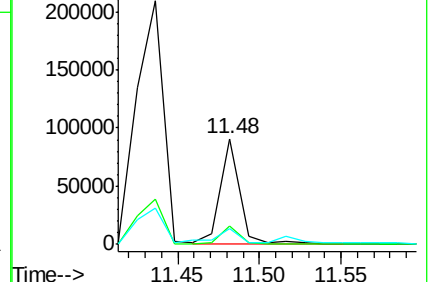
179 15.5 12.6 18.8



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: 16.22 ng

RT: 12.61 min Scan# 921

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

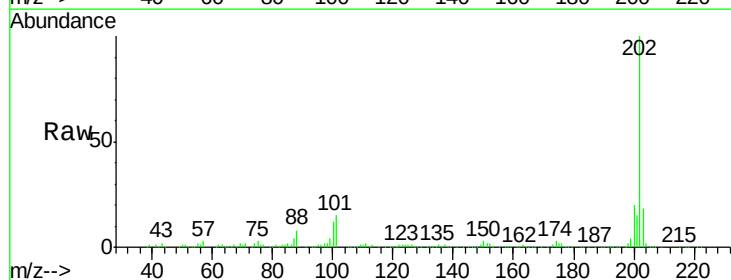
Tgt Ion:202 Resp: 273974

Ion Ratio Lower Upper

202 100

101 15.0 0.0 31.5

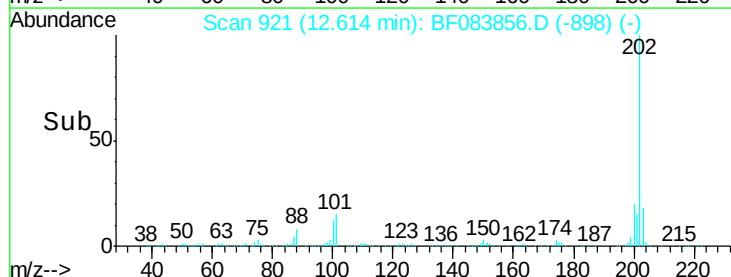
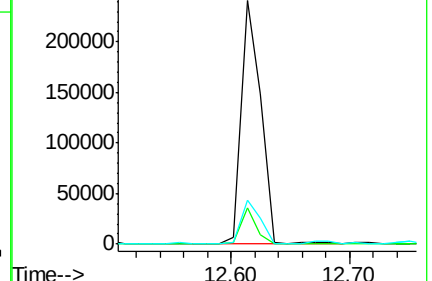
203 17.8 0.0 37.6

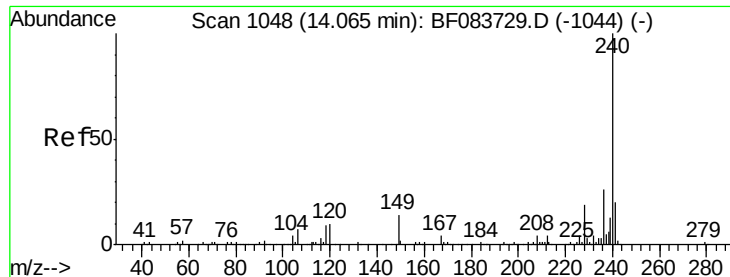


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

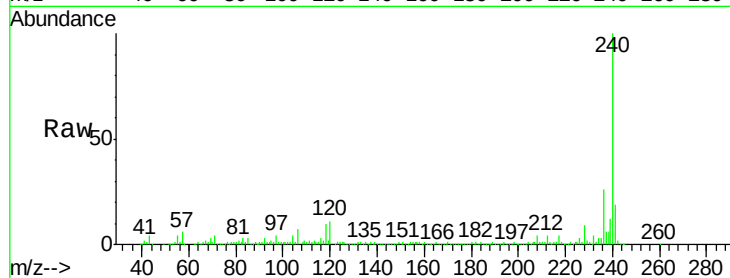
Tgt Ion:240 Resp: 202912

Ion Ratio Lower Upper

240 100

120 10.7 8.1 12.1

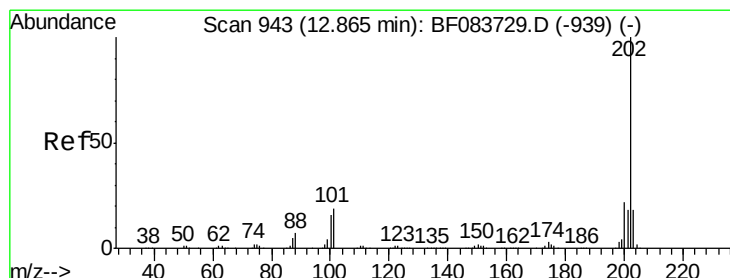
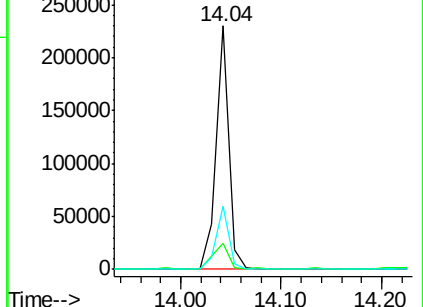
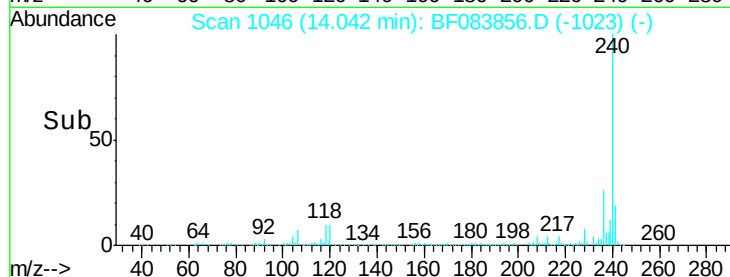
236 26.0 20.8 31.2



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: 14.88 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

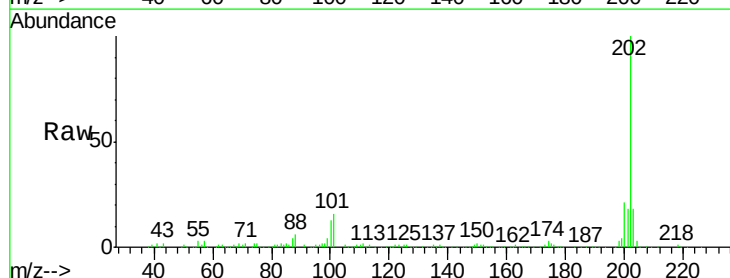
Tgt Ion:202 Resp: 238597

Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

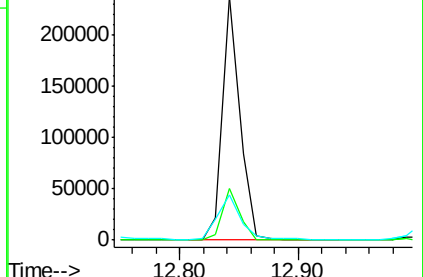
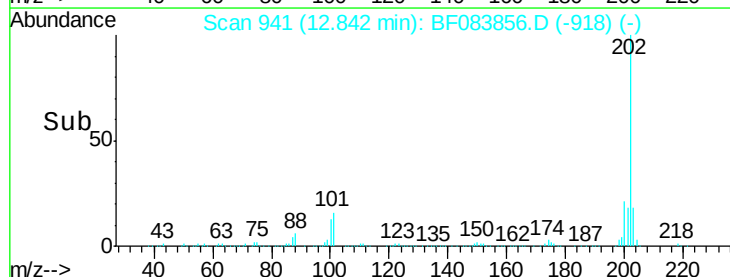
203 18.4 14.3 21.5

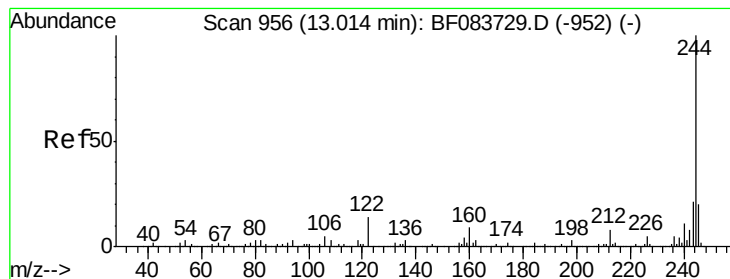


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 70.86 ng

RT: 12.99 min Scan# 954

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

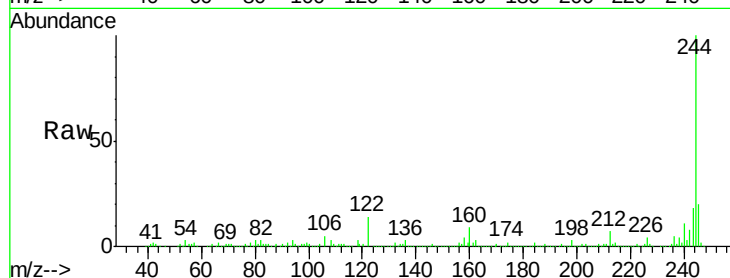
Tgt Ion:244 Resp: 668453

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

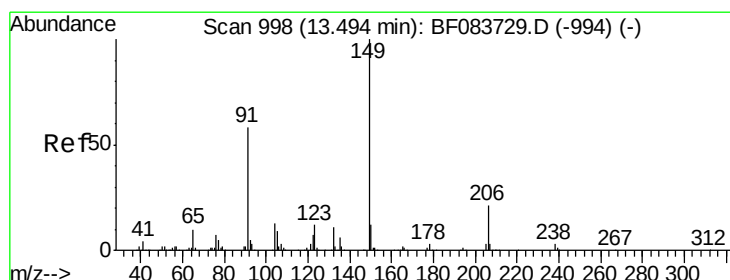
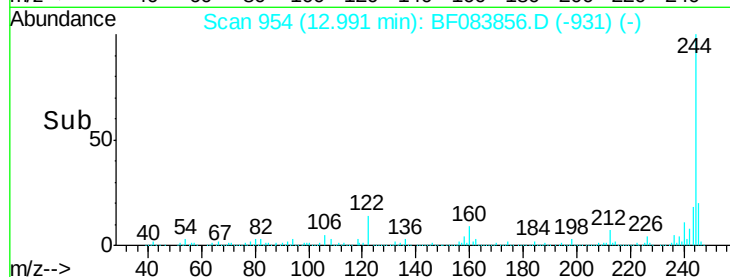
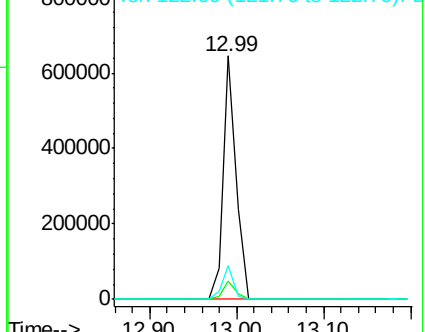
122 13.8 11.0 16.6



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



#79

Butylbenzylphthalate

Concen: 2.10 ng

RT: 13.46 min Scan# 995

Delta R.T. -0.04 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

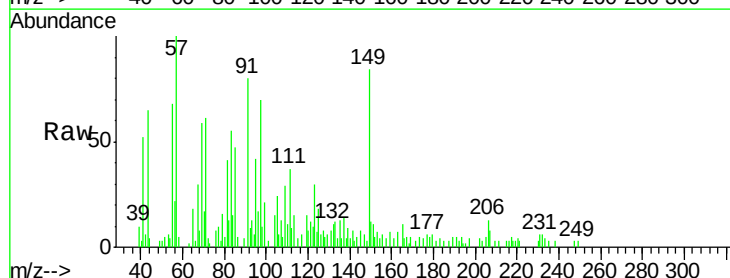
Tgt Ion:149 Resp: 14460

Ion Ratio Lower Upper

149 100

91 95.0 60.0 90.0#

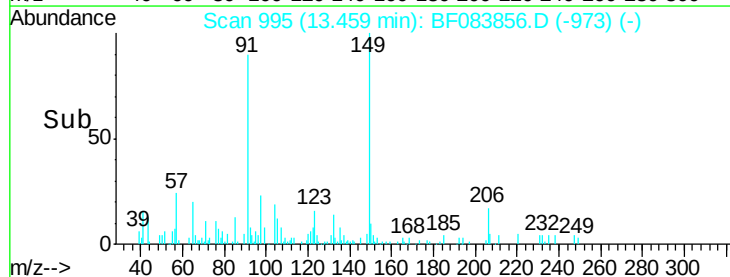
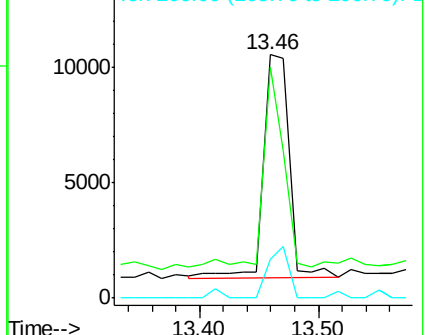
206 15.8 16.2 24.4#

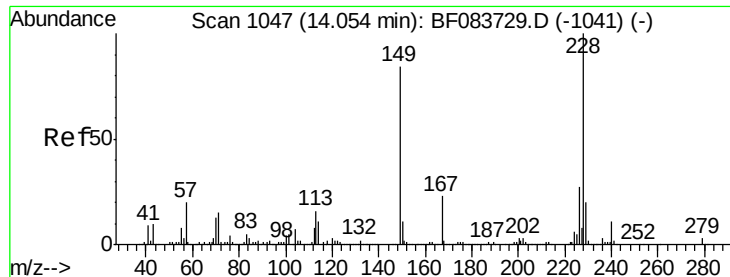


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 10.08 ng

RT: 14.03 min Scan# 1045

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-003

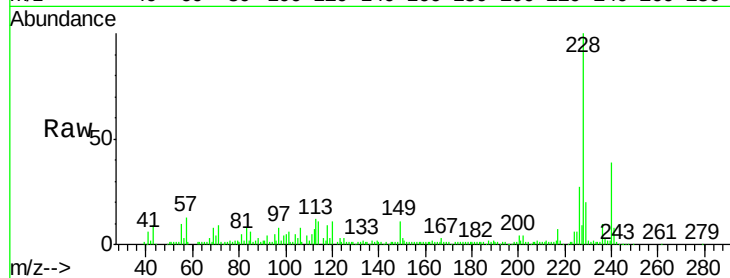
Tgt Ion:228 Resp: 116286

Ion Ratio Lower Upper

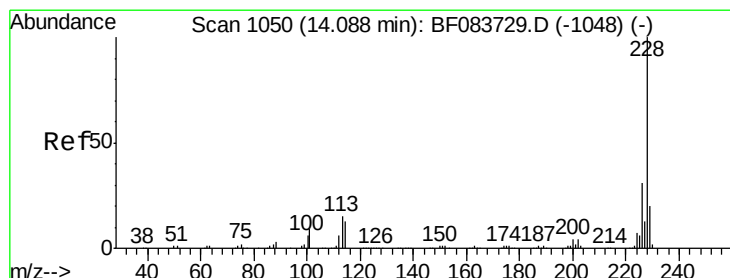
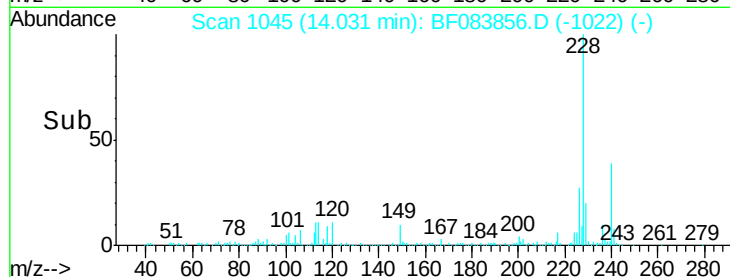
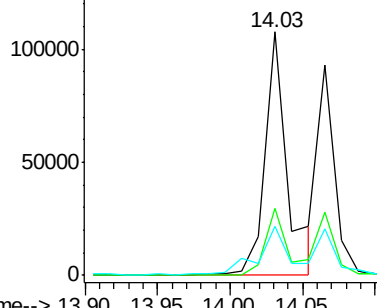
228 100

226 27.4 22.3 33.5

229 20.1 15.7 23.5



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: 6.78 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.03 min

Lab File: BF083856.D

Acq: 16 Dec 2015 18:57

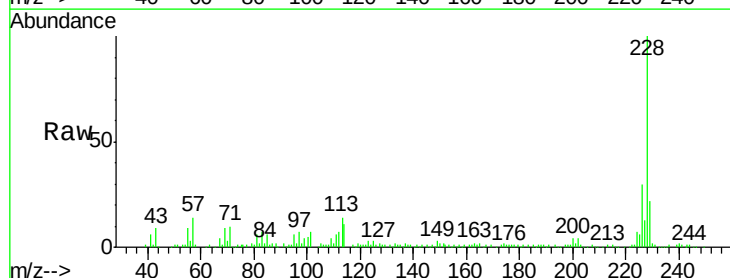
Tgt Ion:228 Resp: 76319

Ion Ratio Lower Upper

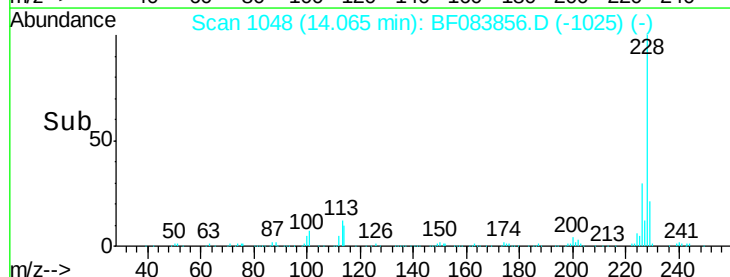
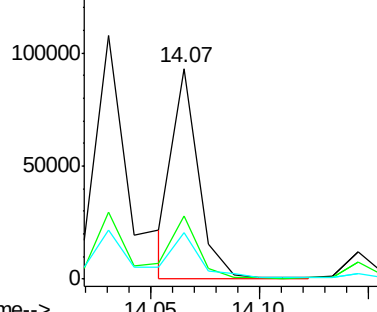
228 100

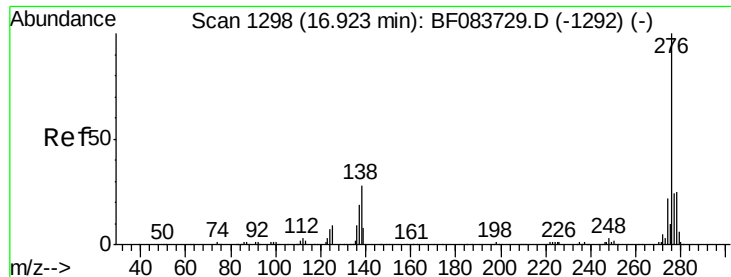
226 30.2 24.7 37.1

229 22.1 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

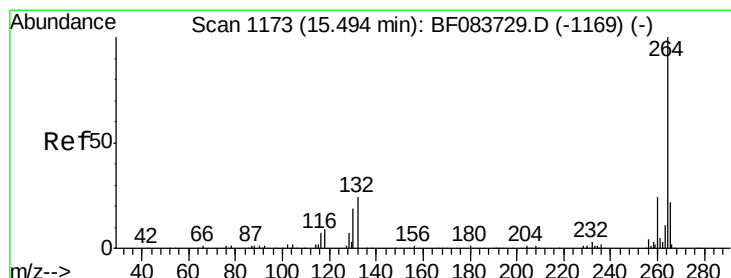
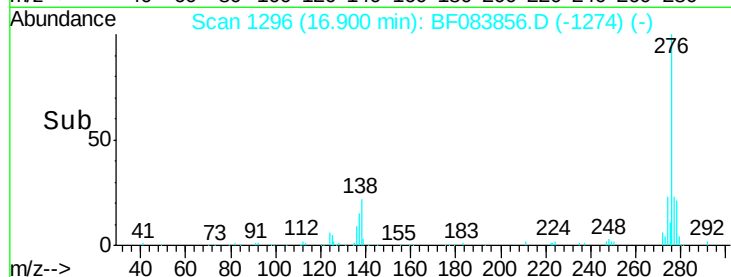
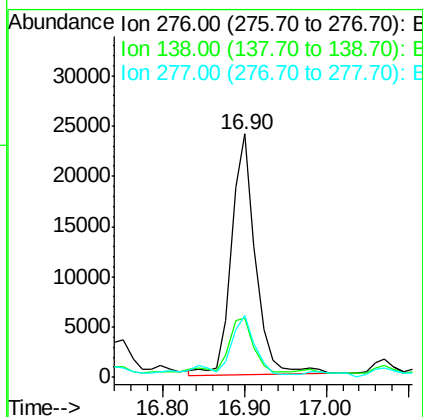
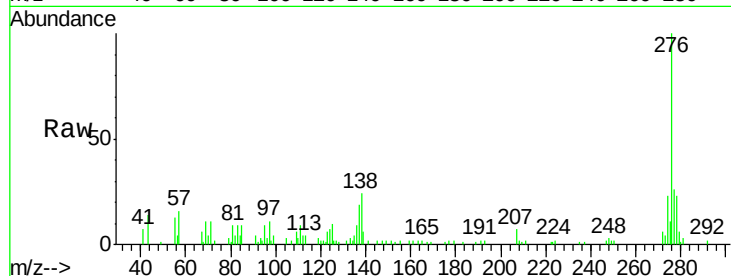




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.44 ng
 RT: 16.90 min Scan# 1296
 Delta R.T. -0.05 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

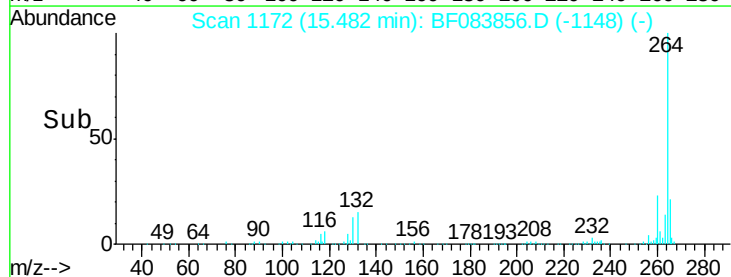
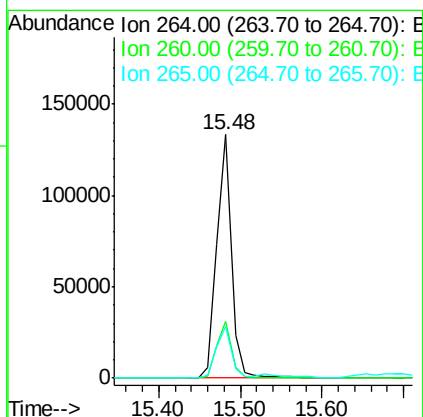
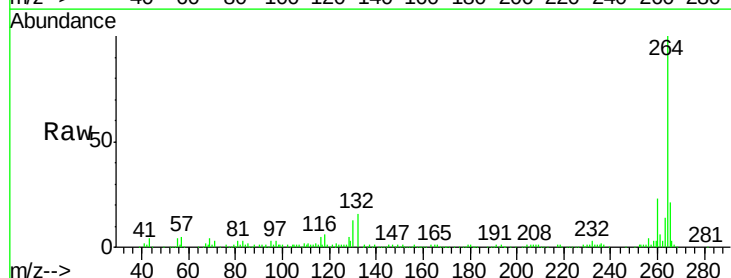
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

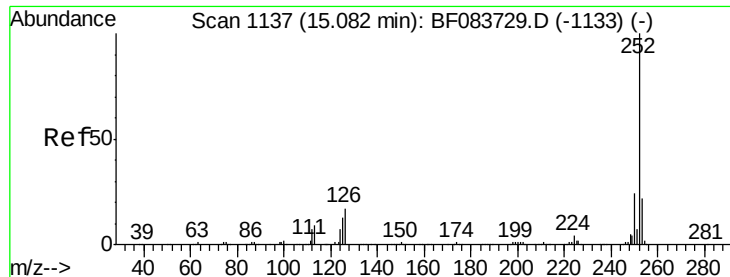
Tgt Ion:276 Resp: 49024
 Ion Ratio Lower Upper
 276 100
 138 25.1 0.0 0.0#
 277 22.9 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.48 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF083856.D
 Acq: 16 Dec 2015 18:57

Tgt Ion:264 Resp: 168278
 Ion Ratio Lower Upper
 264 100
 260 23.1 19.4 29.0
 265 21.4 17.8 26.6

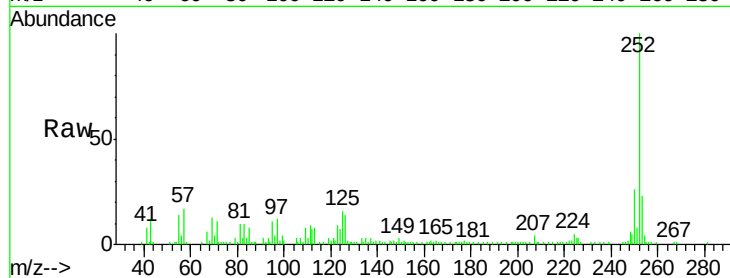




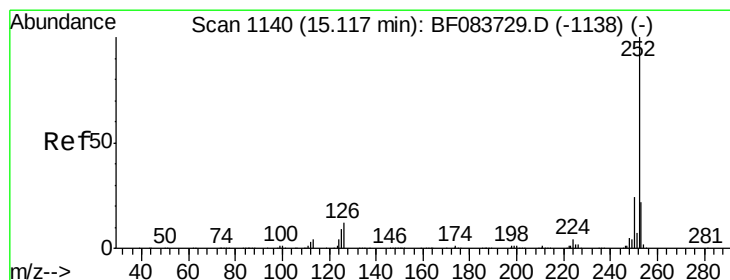
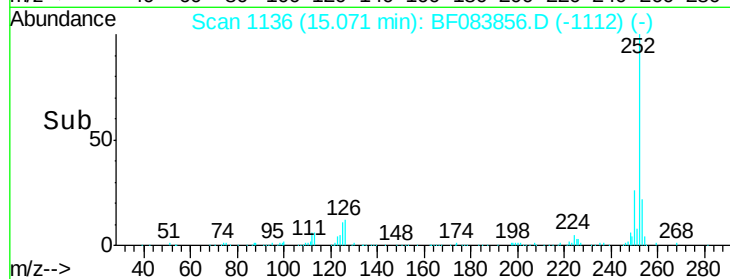
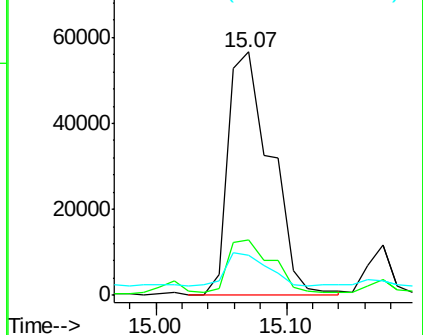
#87
Benzo(b)fluoranthene
Concen: 11.98 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.4
125	16.3	8.2	12.4#

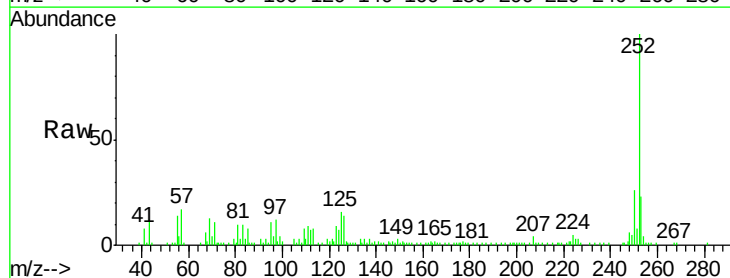


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

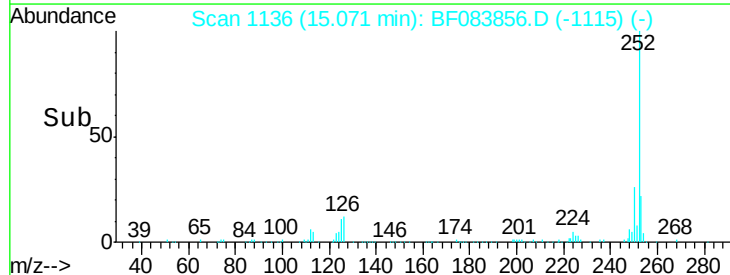
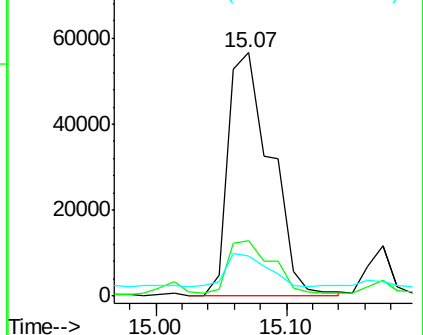


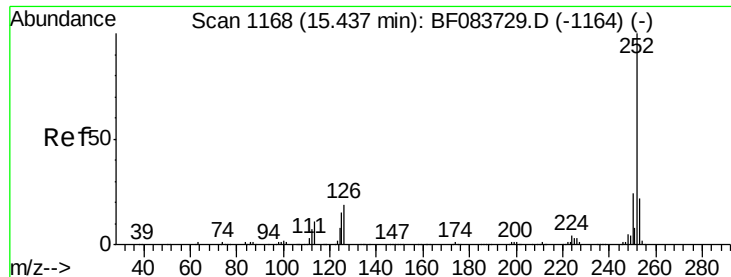
#88
Benzo(k)fluoranthene
Concen: 13.23 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.06 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.6	27.8
125	16.3	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

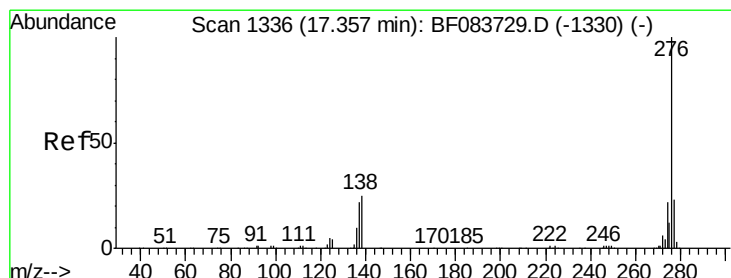
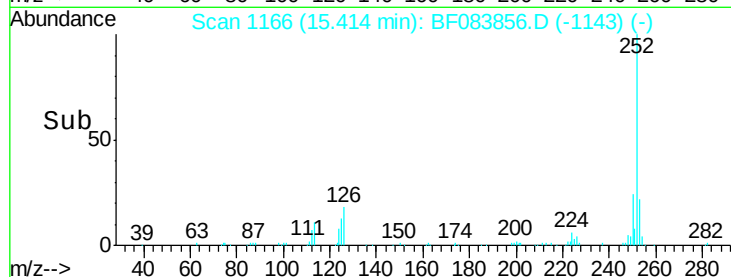
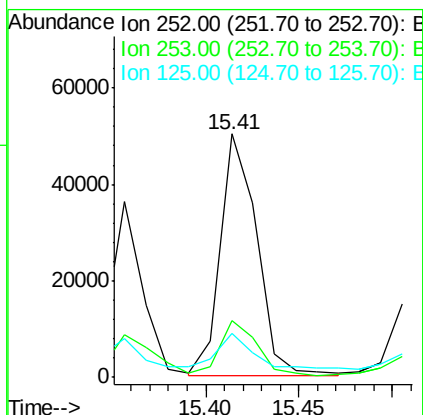
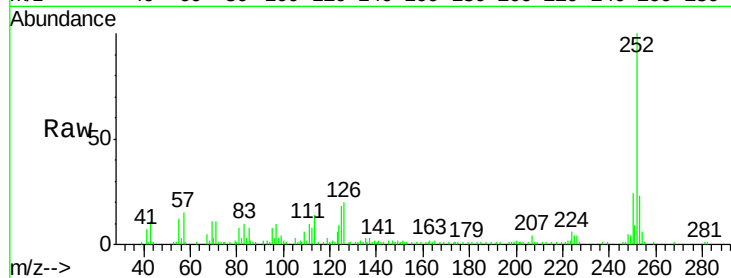




#89
Benzo(a)pyrene
Concen: 7.16 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.03 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Tgt Ion: 252 Resp: 68625
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 18.2 11.0 16.6#



#91
Benzo(g,h,i)perylene
Concen: 4.86 ng
RT: 17.32 min Scan# 1333
Delta R.T. -0.06 min
Lab File: BF083856.D
Acq: 16 Dec 2015 18:57

Tgt Ion: 276 Resp: 47545
Ion Ratio Lower Upper
276 100
277 24.8 19.2 28.8
138 26.3 19.5 29.3

