

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122915\
 Data File : BM003827.D
 Acq On : 28 Dec 2015 14:16
 Operator : UM/SJ
 Sample : G4836-11
 Misc :
 ALS Vial : 4 Sample Multiplier: 4

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-003

Quant Time: Dec 29 12:51:28 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM122415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 24 10:08:49 2015
 Response via : Initial Calibration

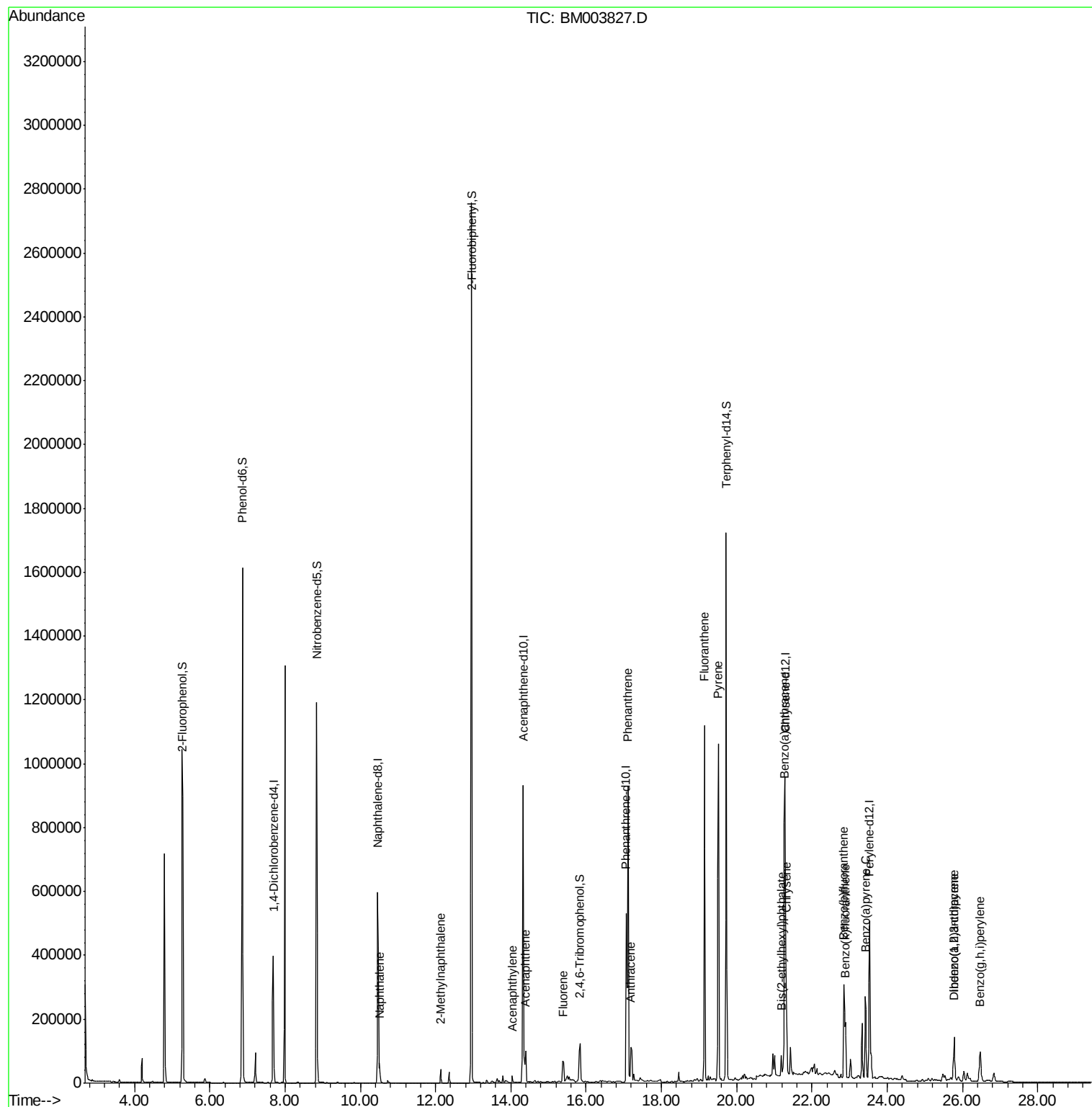
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	229357	20.00	ng	0.00
7) Naphthalene-d8	10.46	136	959090	20.00	ng	-0.02
13) Acenaphthene-d10	14.33	164	536145	20.00	ng	0.00
19) Phenanthrene-d10	17.06	188	949631	20.00	ng	0.00
26) Chrysene-d12	21.29	240	926409	20.00	ng	0.00
35) Perylene-d12	23.53	264	663898	20.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.28	112	1085793	80.14	ng	0.02
5) Phenol-d6	6.87	99	1790111	107.89	ng	0.00
8) Nitrobenzene-d5	8.85	82	1113149	87.61	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	102053	24.35	ng	0.00
15) 2-Fluorobiphenyl	12.95	172	2709934	66.09	ng	0.00
29) Terphenyl-d14	19.72	244	1905147	52.47	ng	0.00
Target Compounds						Qvalue
10) Naphthalene	10.51	128	82257	1.50	ng	99
12) 2-Methylnaphthalene	12.13	142	34764	0.95	ng	# 88
16) Acenaphthylene	14.04	152	20435	0.34	ng	# 94
17) Acenaphthene	14.39	154	75236	2.05	ng	96
18) Fluorene	15.39	166	78436m	1.71	ng	
23) Phenanthrene	17.11	178	1107608	17.47	ng	98
24) Anthracene	17.19	178	236265m	4.21	ng	
25) Fluoranthene	19.14	202	1319853	17.37	ng	100
28) Pyrene	19.52	202	1214868	15.79	ng	# 92
30) Benzo(a)anthracene	21.27	228	630210m	9.07	ng	
32) Chrysene	21.31	228	420787m	6.30	ng	
33) Bis(2-ethylhexyl)phthalate	21.19	149	69426	2.09	ng	# 99
34) Indeno(1,2,3-cd)pyrene	25.78	276	197650	4.05	ng	94
36) Benzo(b)fluoranthene	22.85	252	514763m	9.49	ng	
37) Benzo(k)fluoranthene	22.89	252	170688m	3.41	ng	
38) Benzo(a)pyrene	23.42	252	353493	7.61	ng	# 95
39) Dibenzo(a,h)anthracene	25.79	278	49044	1.35	ng	# 83
40) Benzo(g,h,i)perylene	26.47	276	188174	4.94	ng	96

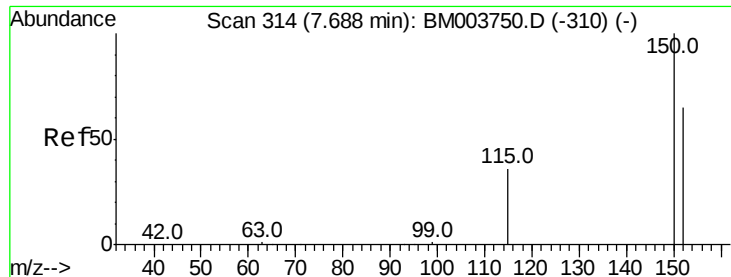
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.69 min Scan# 314

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

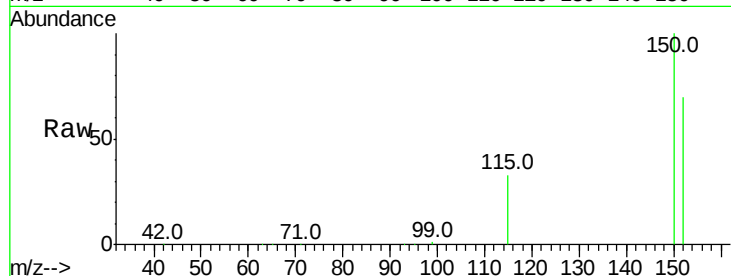
Tot Ion:152 Resp: 229357

Ion Ratio Lower Upper

152 100

150 142.8 122.9 184.3

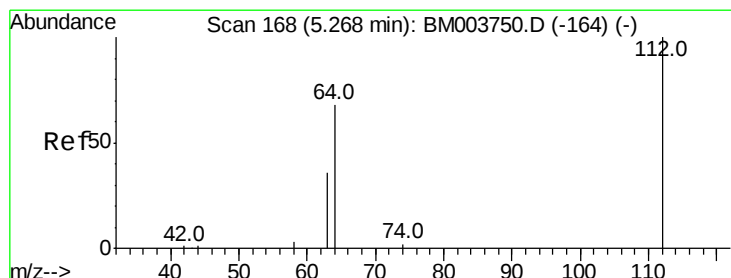
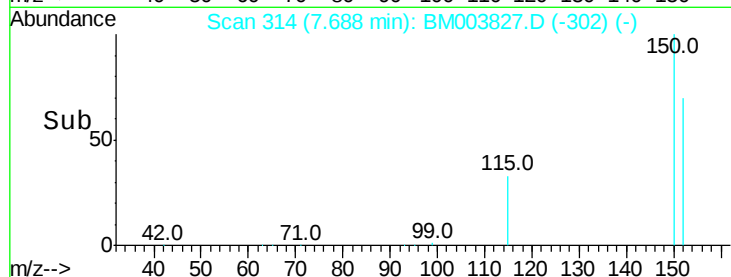
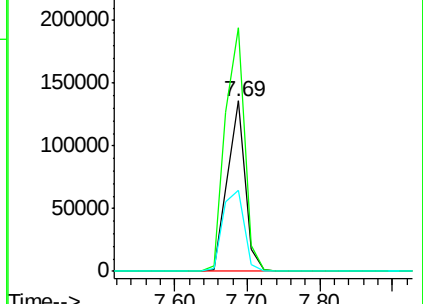
115 47.7 44.4 66.6



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



#4

2-Fluorophenol

Concen: 80.14 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

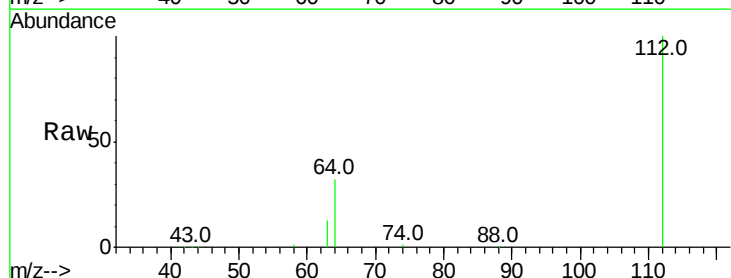
Tgt Ion:112 Resp: 1085793

Ion Ratio Lower Upper

112 100

64 51.7 41.8 62.8

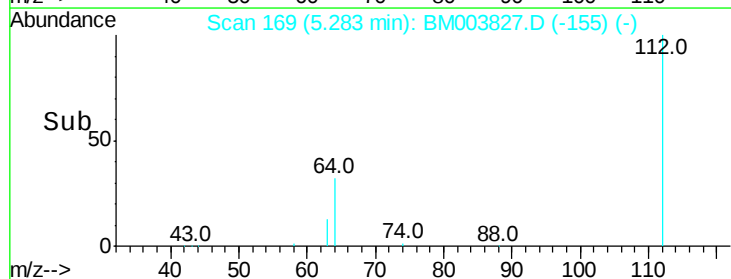
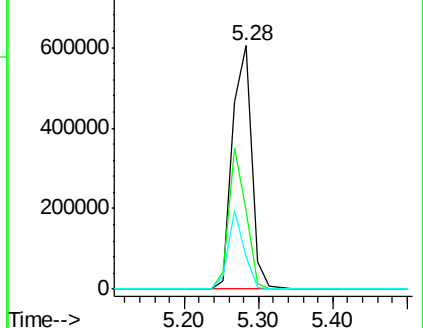
63 27.0 22.1 33.1

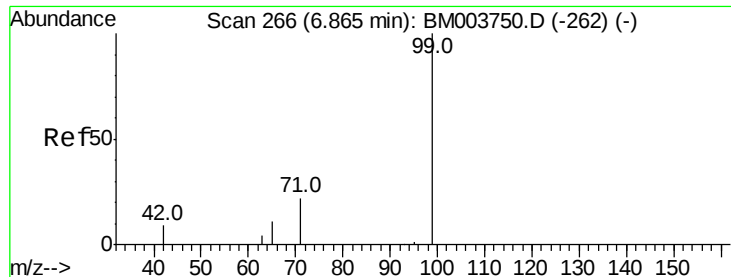


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 107.89 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

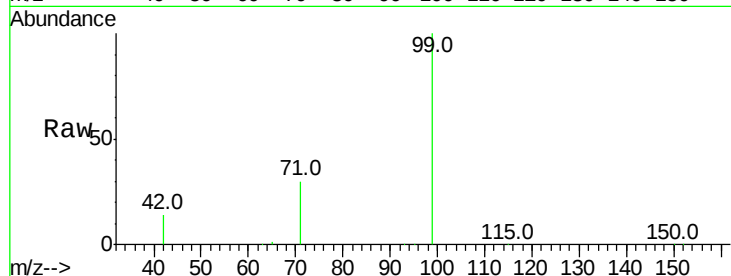
Tot Ion: 99 Resp: 1790111

Ion Ratio Lower Upper

99 100

42 18.6 16.2 24.2

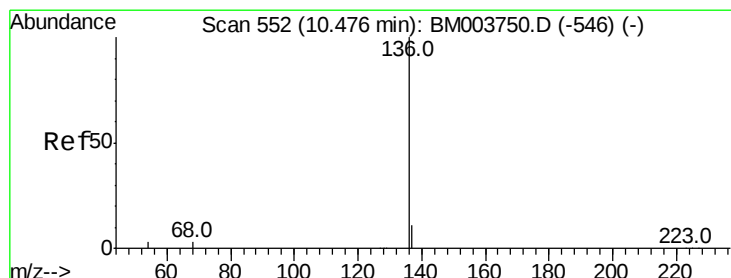
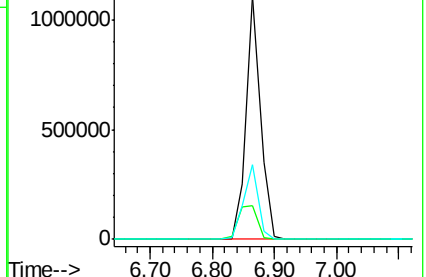
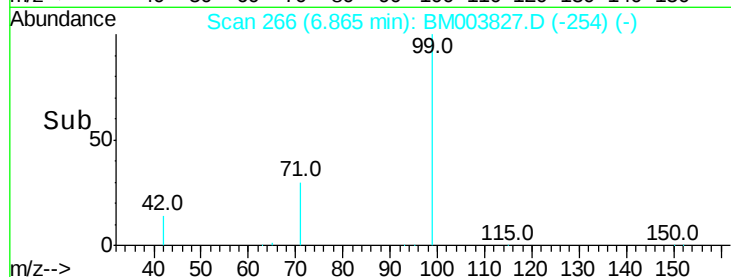
71 31.0 24.4 36.6



Abundance Ion 99.00 (98.70 to 99.70): BM003827.D (-254) (-)

Ion 42.00 (41.70 to 42.70): BM003827.D (-254) (-)

Ion 71.00 (70.70 to 71.70): BM003827.D (-254) (-)



#7

Naphthalene-d8

Concen: 20.00 ng

RT: 10.46 min Scan# 551

Delta R.T. -0.02 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Tgt Ion: 136 Resp: 959090

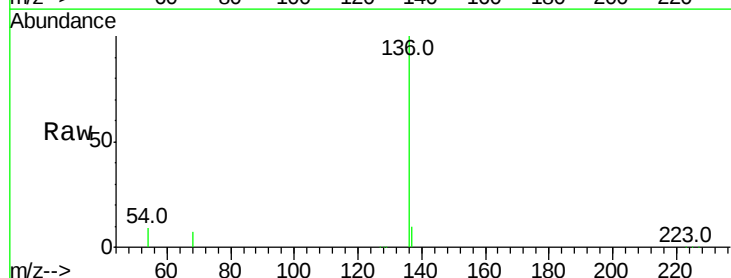
Ion Ratio Lower Upper

136 100

137 10.3 9.2 13.8

54 9.0 2.8 4.2#

68 6.6 2.5 3.7#

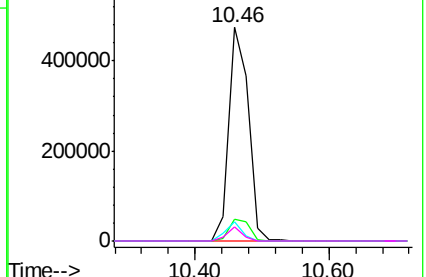
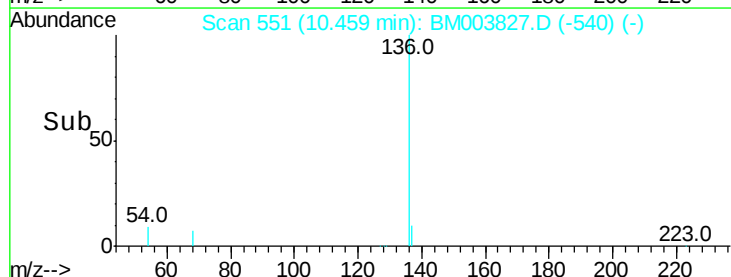


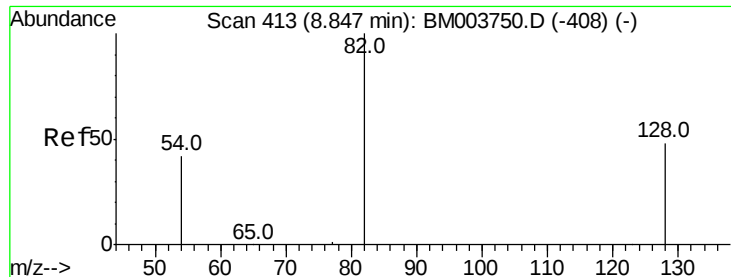
Abundance Ion 136.00 (135.70 to 136.70): BM003827.D (-540) (-)

Ion 137.00 (136.70 to 137.70): BM003827.D (-540) (-)

Ion 54.00 (53.70 to 54.70): BM003827.D (-540) (-)

Ion 68.00 (67.70 to 68.70): BM003827.D (-540) (-)





#8

Nitrobenzene-d5

Concen: 87.61 ng

RT: 8.85 min Scan# 413

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

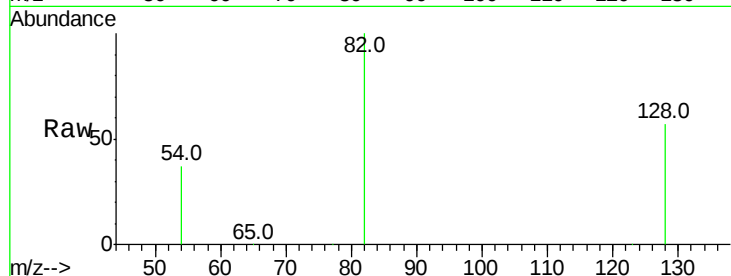
Tot Ion: 82 Resp: 1113149

Ion Ratio Lower Upper

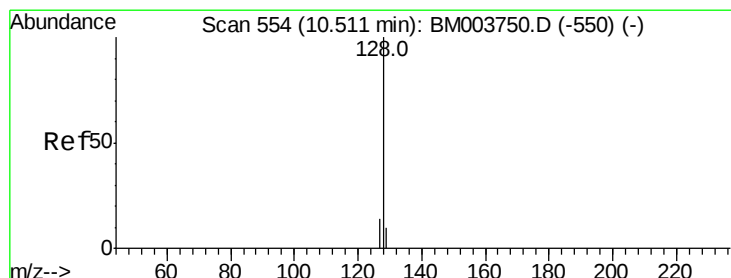
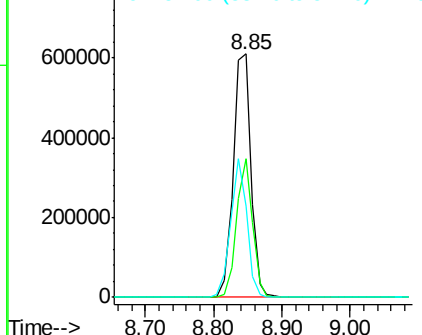
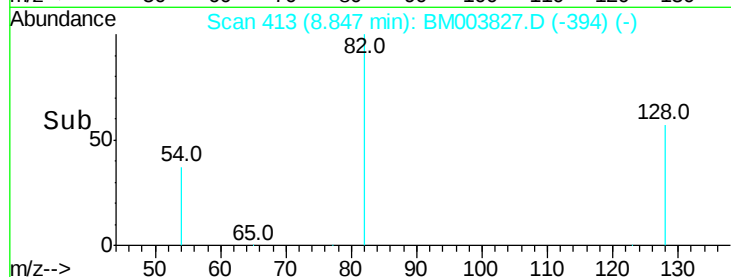
82 100

128 56.9 39.1 58.7

54 37.4 34.8 52.2



Abundance Ion 82.00 (81.70 to 82.70): BM003827.D (-394) (-)



#10

Naphthalene

Concen: 1.50 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

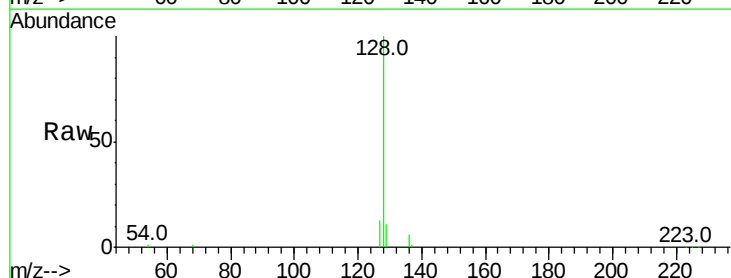
Tgt Ion: 128 Resp: 82257

Ion Ratio Lower Upper

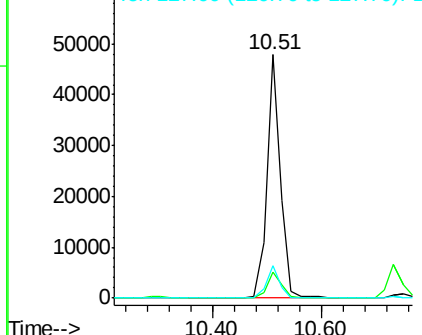
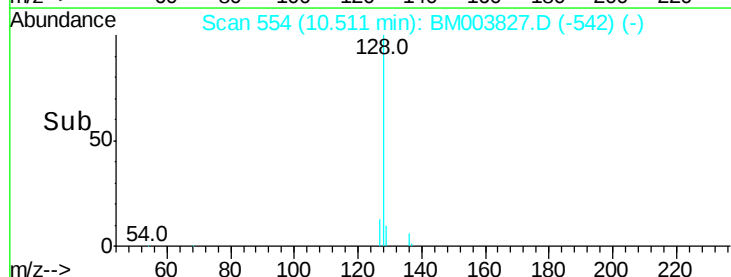
128 100

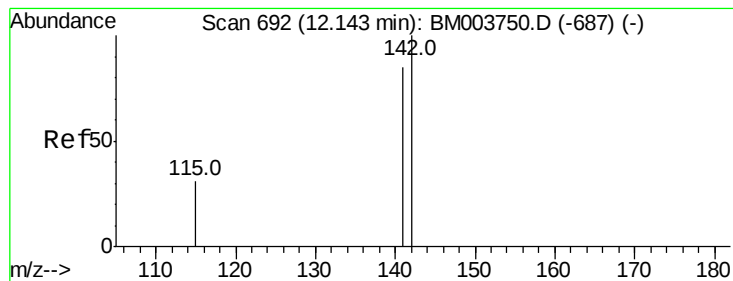
129 10.8 8.5 12.7

127 13.1 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): BM003827.D (-542) (-)





#12

2-Methylnaphthalene

Concen: 0.95 ng

RT: 12.13 min Scan# 691

Delta R.T. -0.01 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

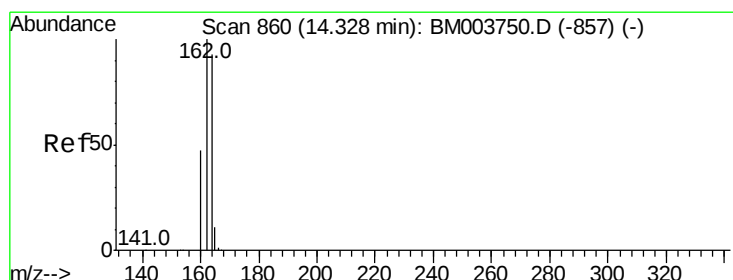
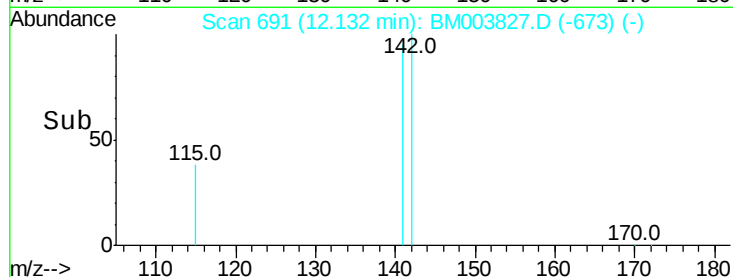
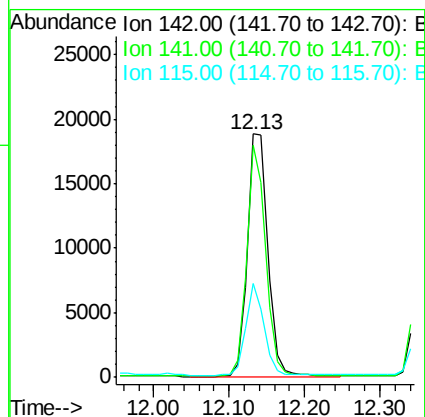
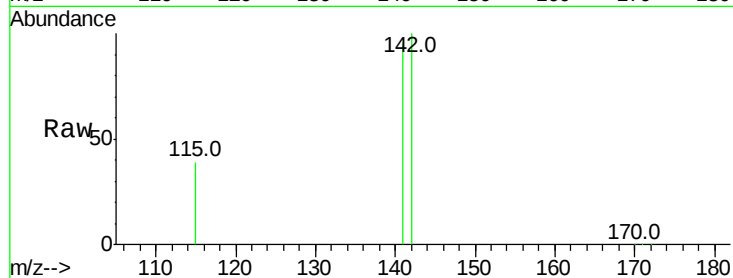
Tot Ion:142 Resp: 34764

Ion Ratio Lower Upper

142 100

141 95.3 67.8 101.8

115 38.8 25.3 37.9#



#13

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

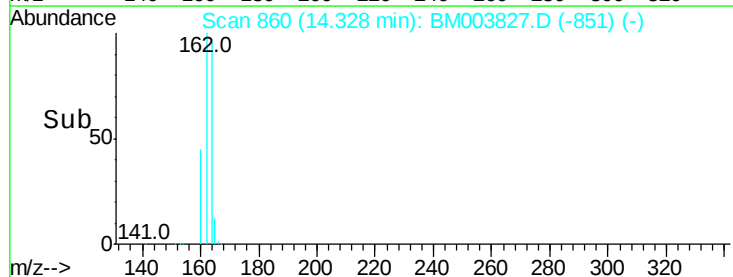
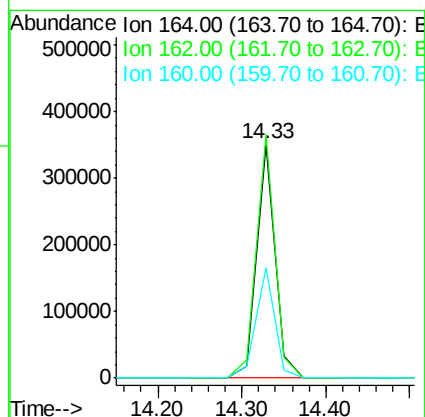
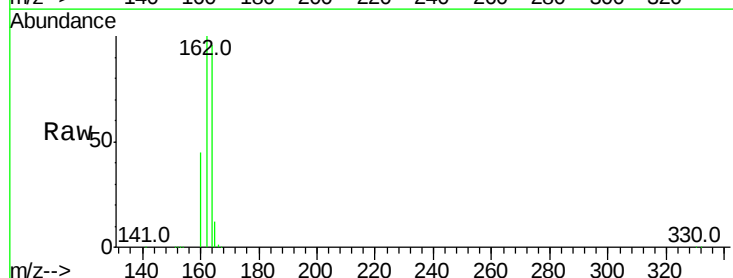
Tgt Ion:164 Resp: 536145

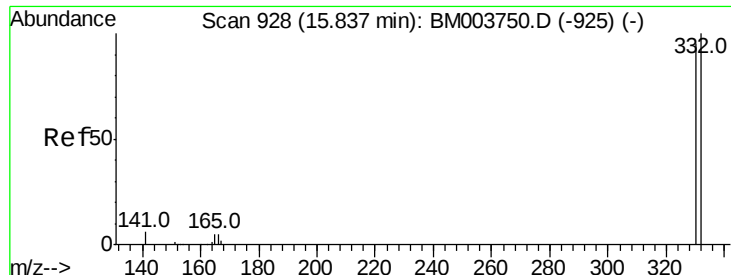
Ion Ratio Lower Upper

164 100

162 104.3 86.0 129.0

160 47.3 40.3 60.5

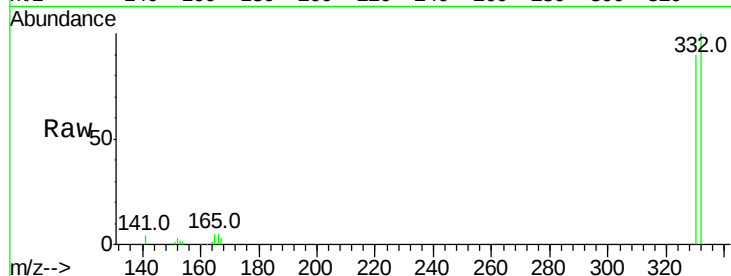




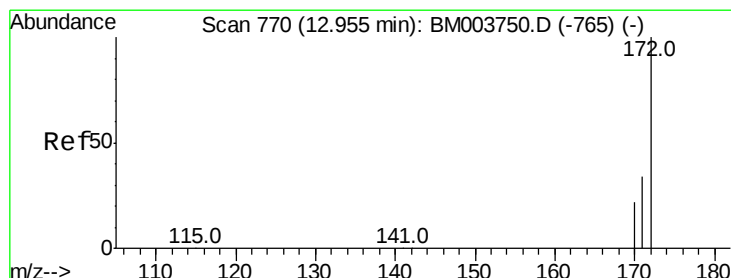
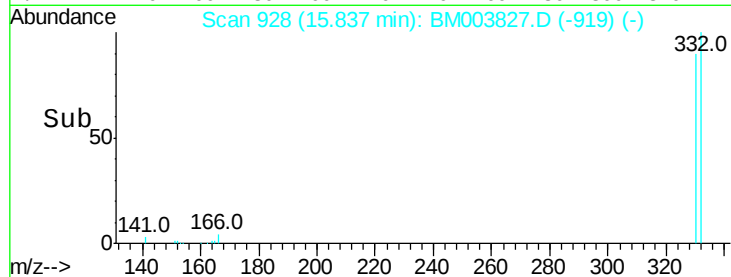
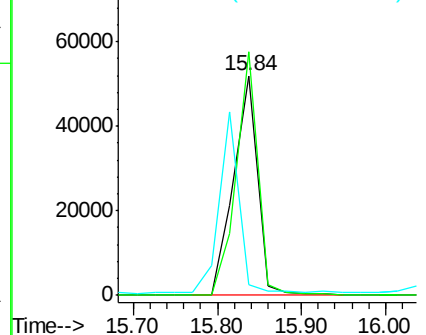
#14
 2,4,6-Tribromophenol
 Concen: 24.35 ng
 RT: 15.84 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-003

Tot Ion:330 Resp: 102053
 Ion Ratio Lower Upper
 330 100
 332 99.2 79.0 118.4
 141 0.0 0.0 0.0

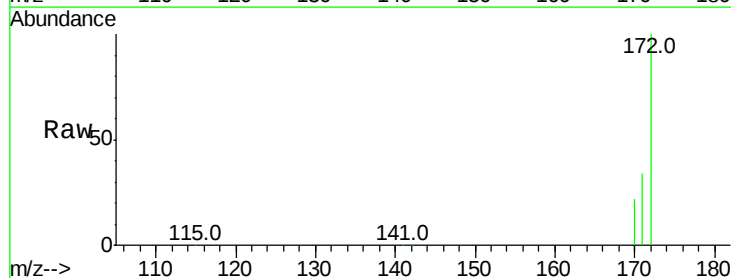


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

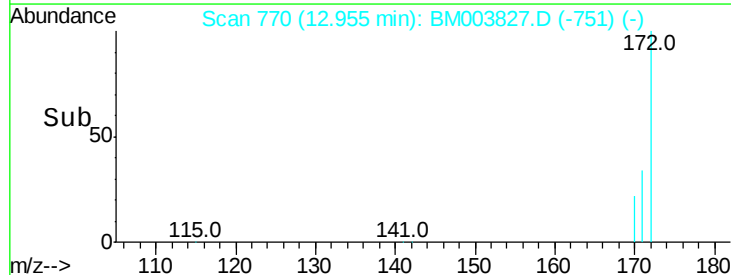
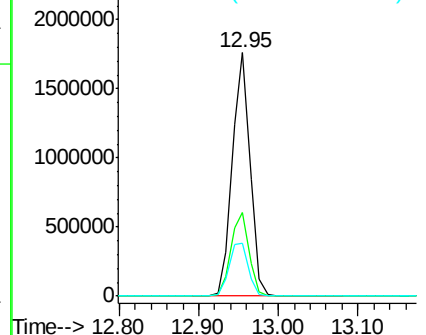


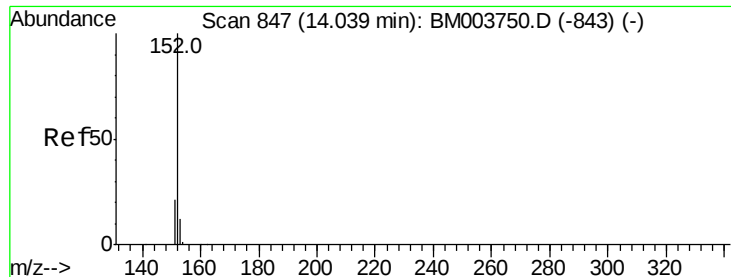
#15
 2-Fluorobiphenyl
 Concen: 66.09 ng
 RT: 12.95 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

Tgt Ion:172 Resp: 2709934
 Ion Ratio Lower Upper
 172 100
 171 34.2 27.0 40.6
 170 21.9 17.9 26.9



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

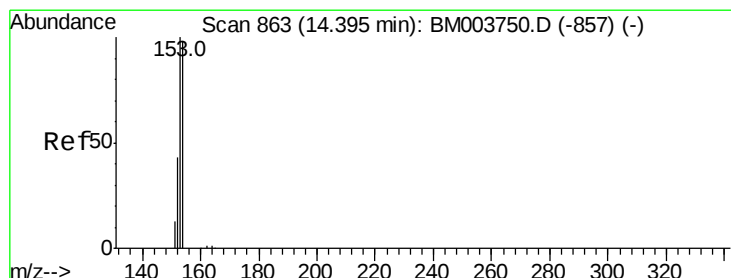
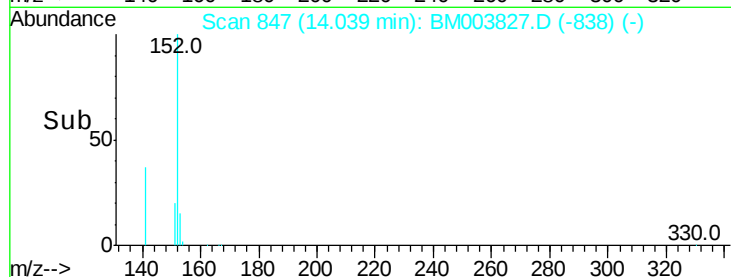
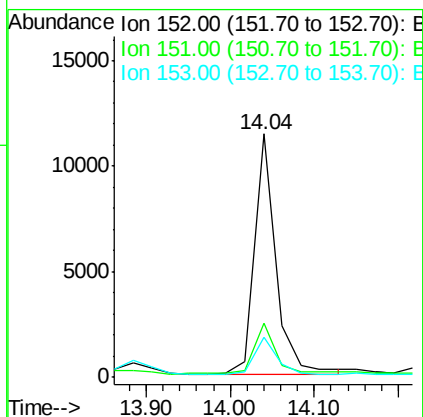
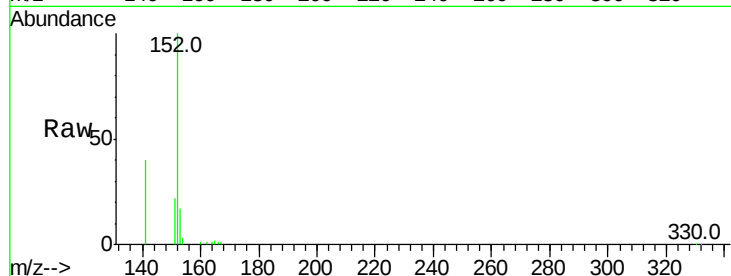




#16
Acenaphthylene
Concen: 0.34 ng
RT: 14.04 min Scan# 847
Delta R.T. 0.00 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

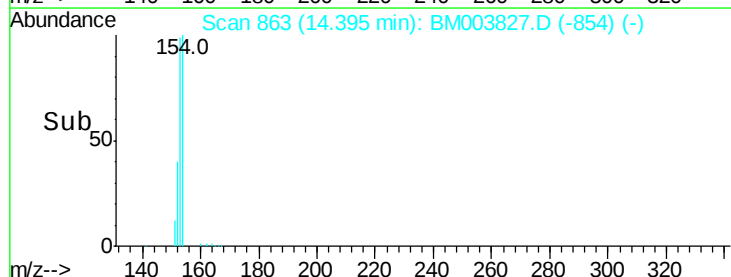
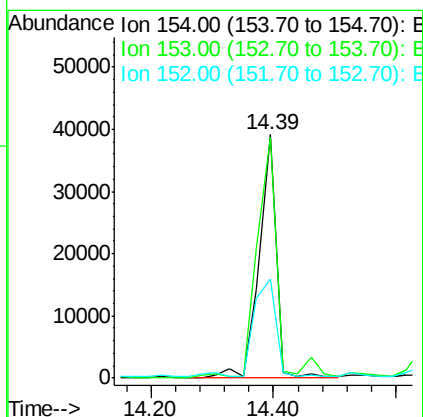
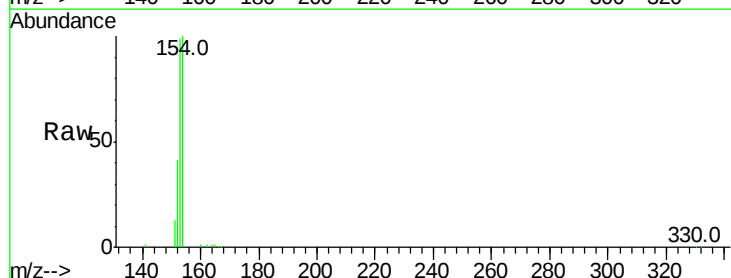
Instrument :
BNA_M
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LIBERTY-SF-003

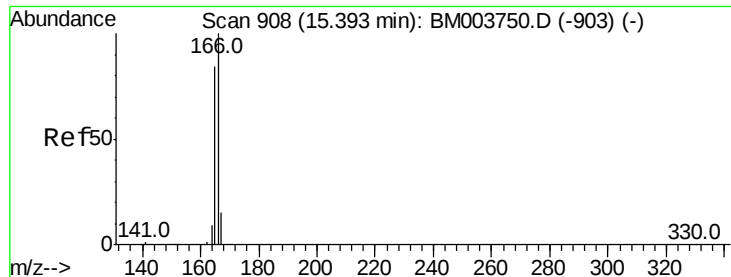
Tot Ion:152 Resp: 20435
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.8
153 17.2 10.2 15.4#



#17
Acenaphthene
Concen: 2.05 ng
RT: 14.39 min Scan# 863
Delta R.T. 0.00 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

Tgt Ion:154 Resp: 75236
Ion Ratio Lower Upper
154 100
153 109.7 85.4 128.2
152 54.2 40.6 60.8





#18

Fluorene

Concen: 1.71 ng/mL

RT: 15.39 min Scan# 908

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

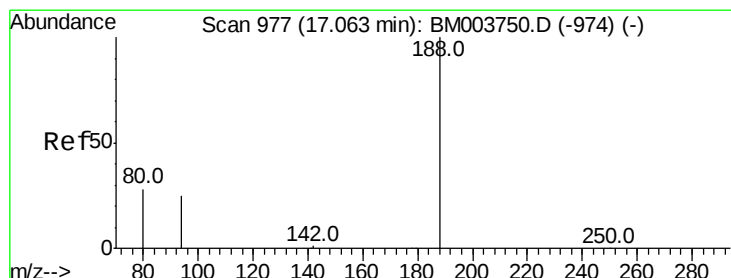
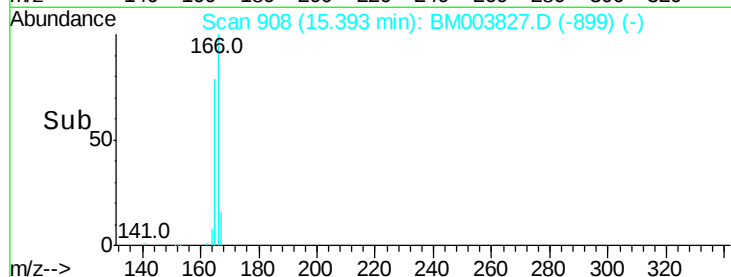
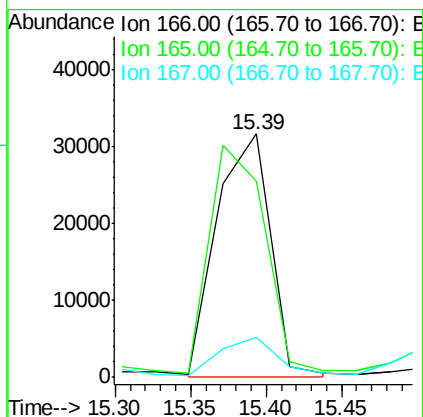
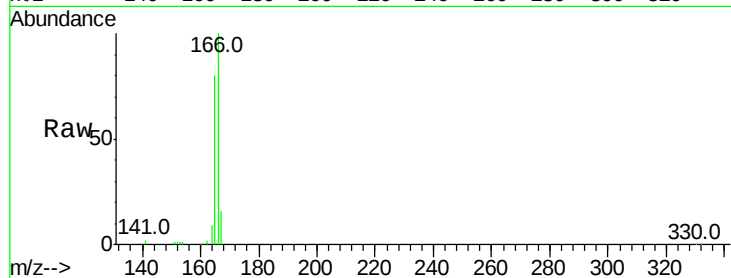
Tot Ion:166 Resp: 78436

Ion Ratio Lower Upper

166 100

165 0.0 77.2 115.8#

167 0.0 11.0 16.6#



#19

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.06 min Scan# 977

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

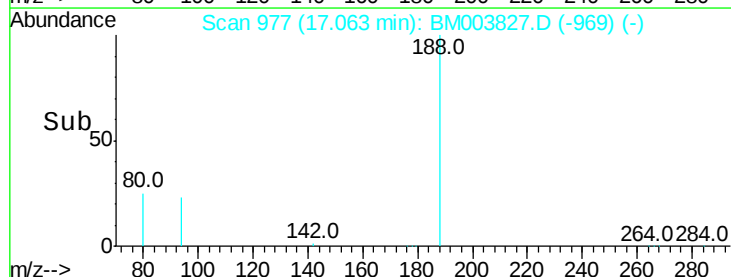
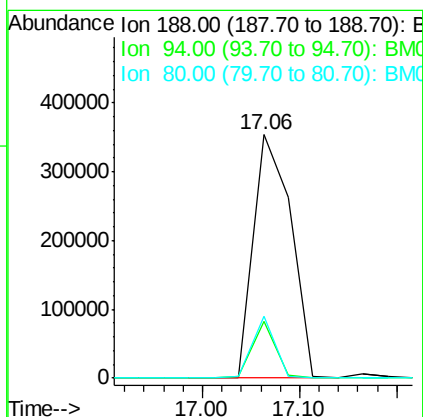
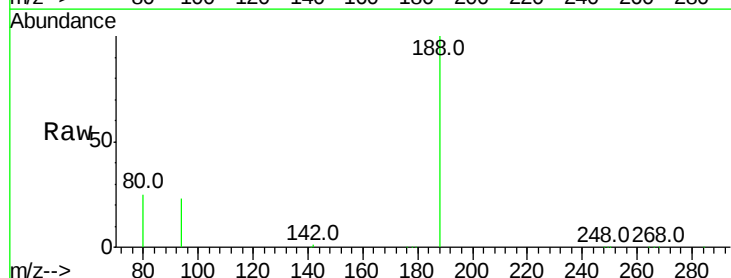
Tgt Ion:188 Resp: 949631

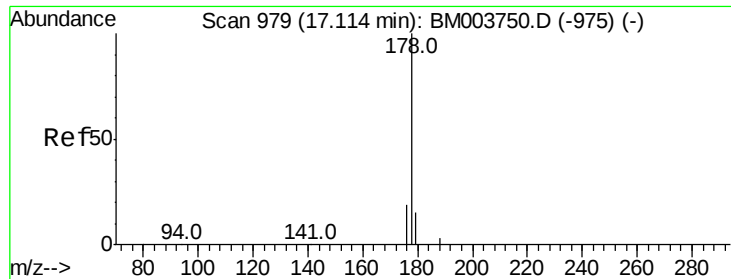
Ion Ratio Lower Upper

188 100

94 23.1 20.3 30.5

80 25.3 22.2 33.4

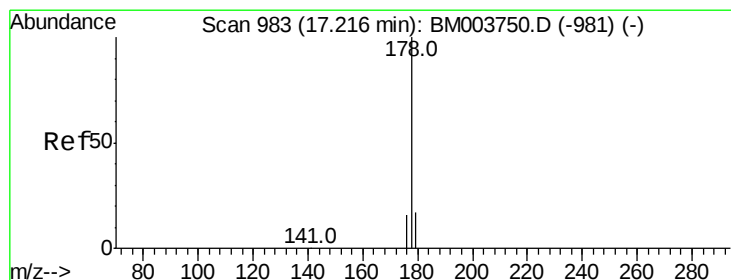
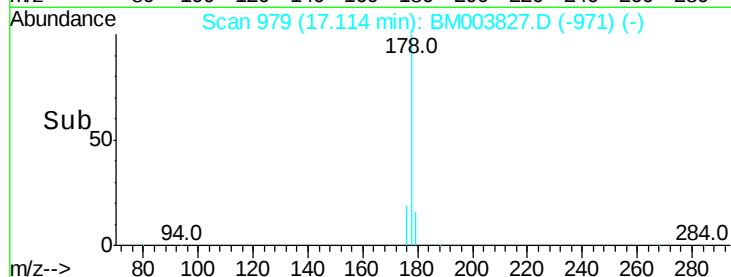
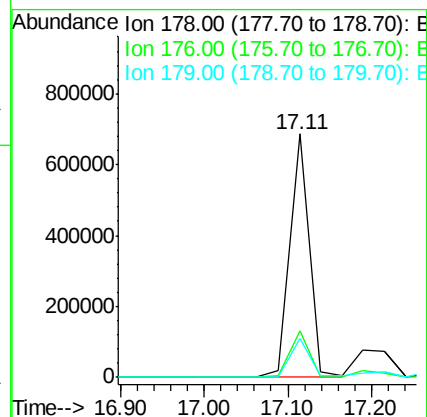
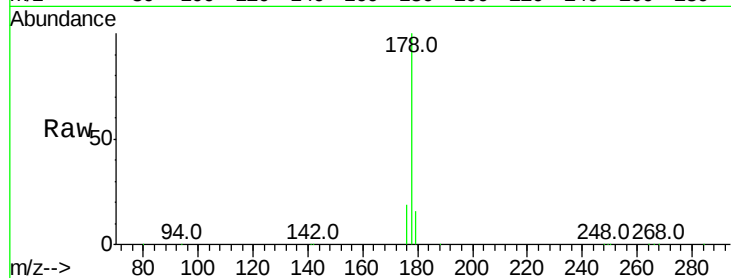




#23
Phenanthrene
Concen: 17.47 ng
RT: 17.11 min Scan# 979
Delta R.T. 0.00 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

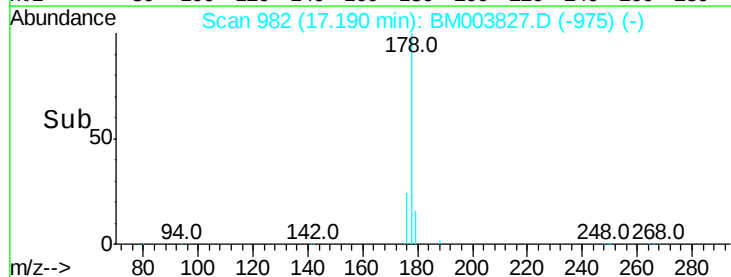
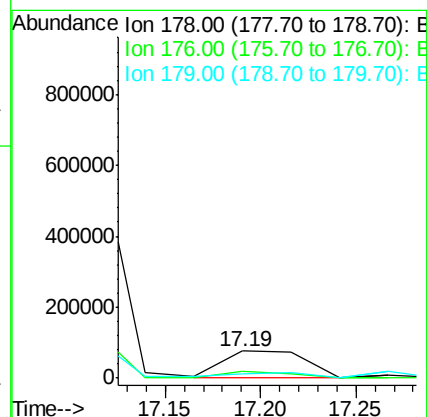
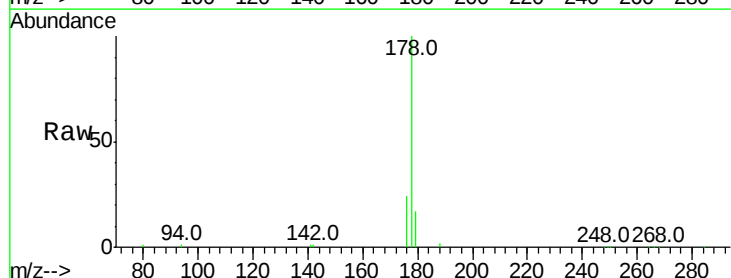
Instrument :
BNA_M
ClientSampleId :
LIBERTY-SF-003

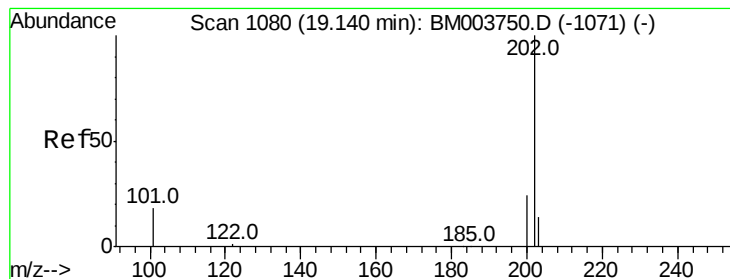
Tot Ion:178 Resp: 1107608
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 16.6 12.2 18.4



#24
Anthracene
Concen: 4.21 ng m
RT: 17.19 min Scan# 982
Delta R.T. -0.02 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

Tgt Ion:178 Resp: 236265
Ion Ratio Lower Upper
178 100
176 88.9 14.6 21.8#
179 76.8 12.6 19.0#





#25

Fluoranthene

Concen: 17.37 ng

RT: 19.14 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

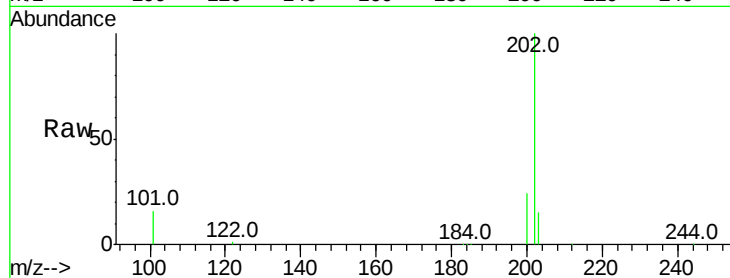
Tot Ion:202 Resp: 1319853

Ion Ratio Lower Upper

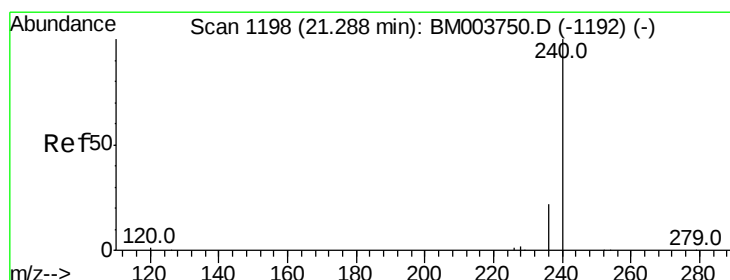
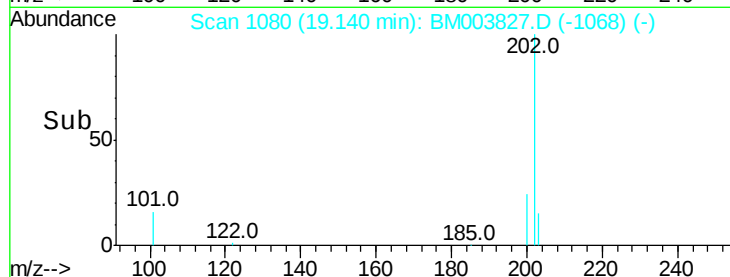
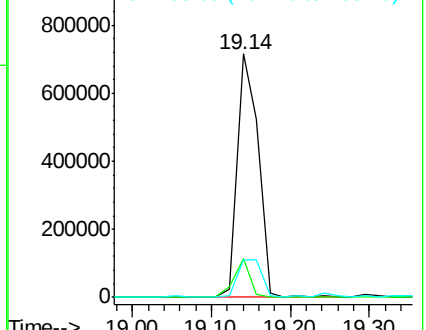
202 100

101 12.0 9.7 14.5

203 17.5 13.8 20.8



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



#26

Chrysene-d12

Concen: 20.00 ng

RT: 21.29 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

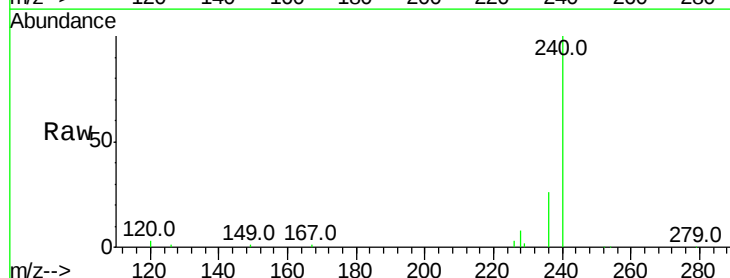
Tgt Ion:240 Resp: 926409

Ion Ratio Lower Upper

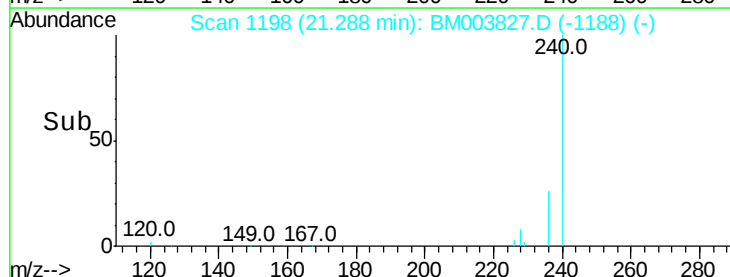
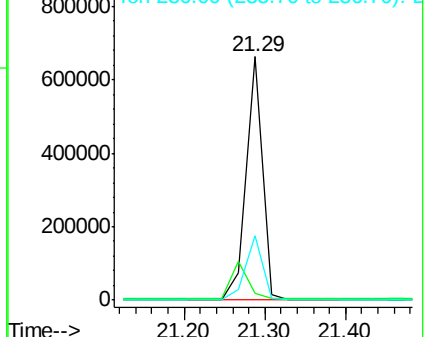
240 100

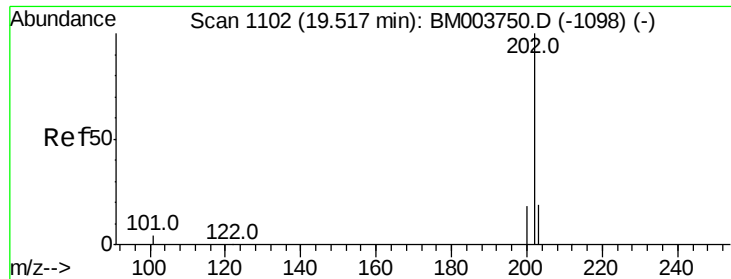
120 2.9 0.9 1.3#

236 26.4 17.3 25.9#



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

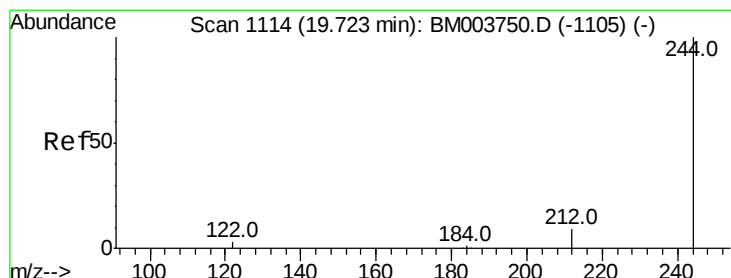
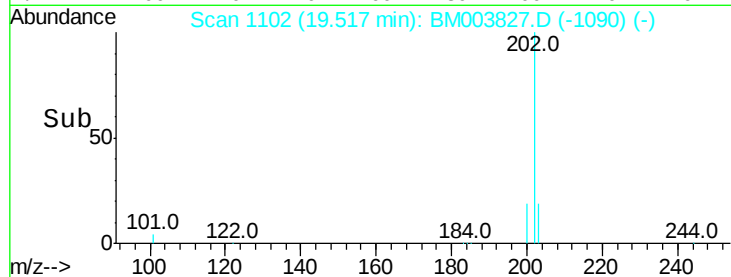
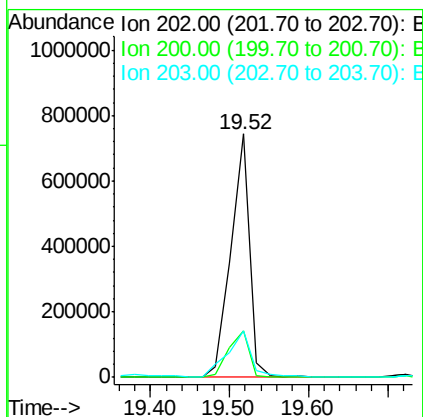
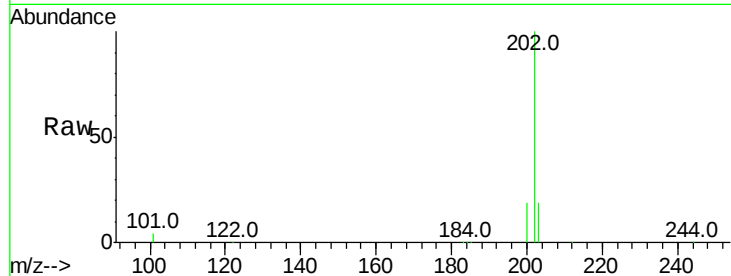




#28
Pvrene
Concen: 15.79 ng
RT: 19.52 min Scan# 1102
Delta R.T. 0.00 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

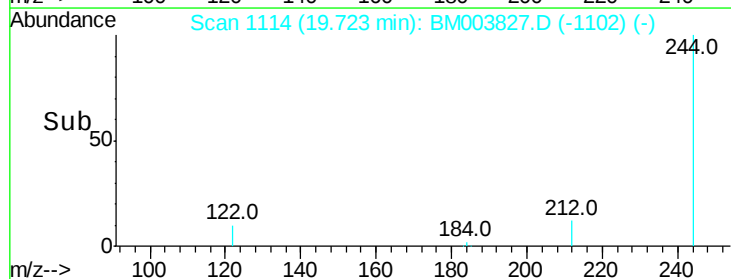
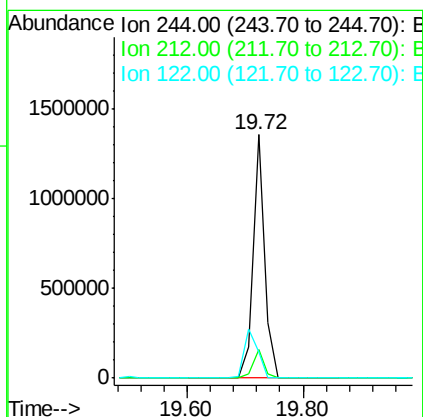
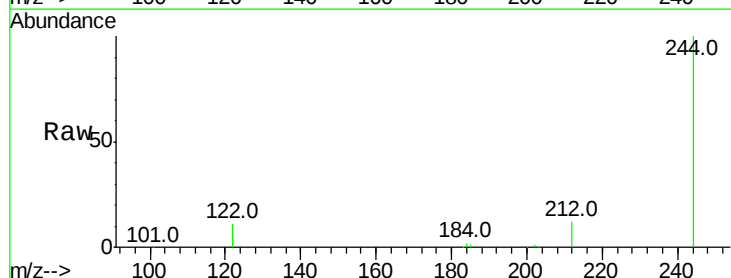
Instrument :
BNA_M
ClientSampleId :
LIBERTY-SF-003

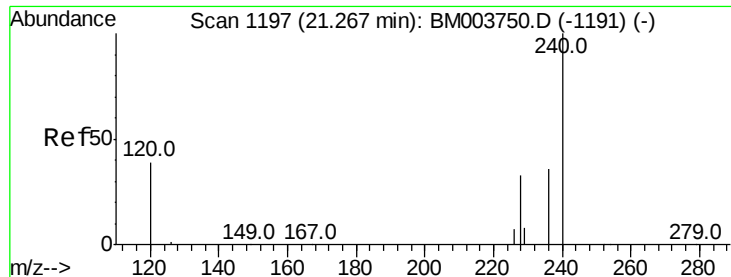
Tot Ion:202 Resp: 1214868
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 24.3 14.0 21.0#



#29
Terphenyl-d14
Concen: 52.47 ng
RT: 19.72 min Scan# 1114
Delta R.T. 0.00 min
Lab File: BM003827.D
Acq: 28 Dec 2015 14:16

Tgt Ion:244 Resp: 1905147
Ion Ratio Lower Upper
244 100
212 12.0 7.0 10.6#
122 10.5 3.0 4.6#





#30

Benzo(a)anthracene

Concen: 9.07 ng m

RT: 21.27 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

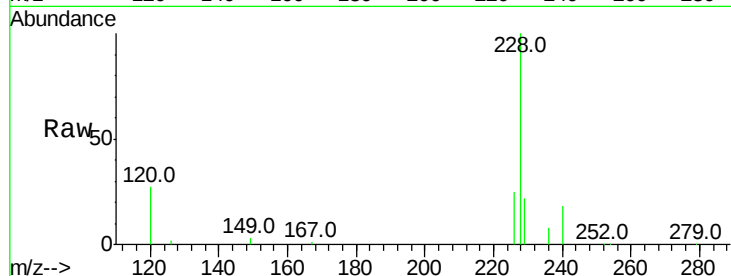
Tot Ion:228 Resp: 630210

Ion Ratio Lower Upper

228 100

226 25.3 17.2 25.8

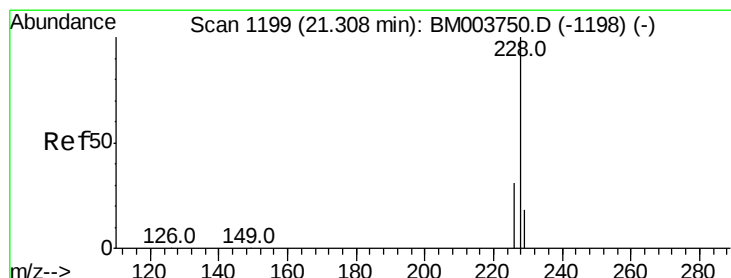
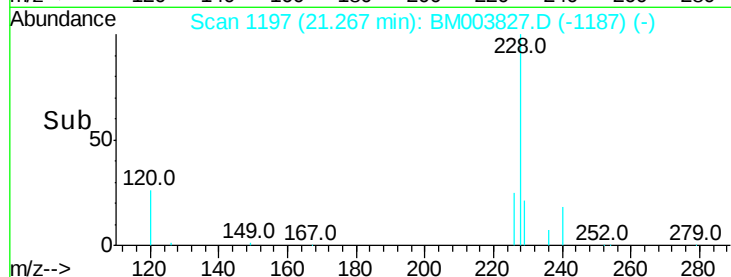
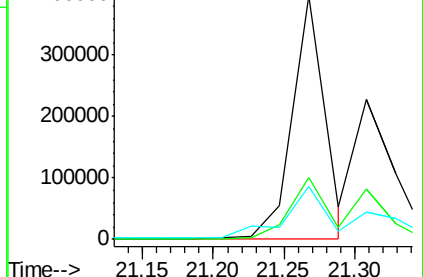
229 21.7 18.7 28.1



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



#32

Chrysene

Concen: 6.30 ng m

RT: 21.31 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

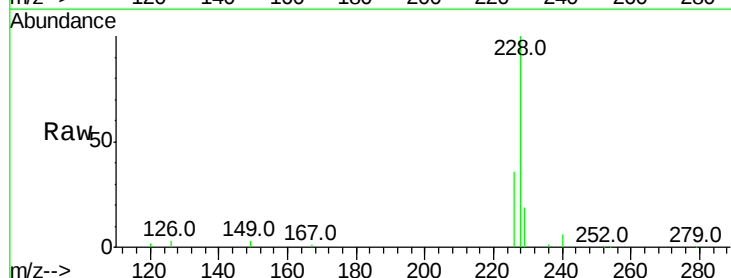
Tgt Ion:228 Resp: 420787

Ion Ratio Lower Upper

228 100

226 35.8 25.3 37.9

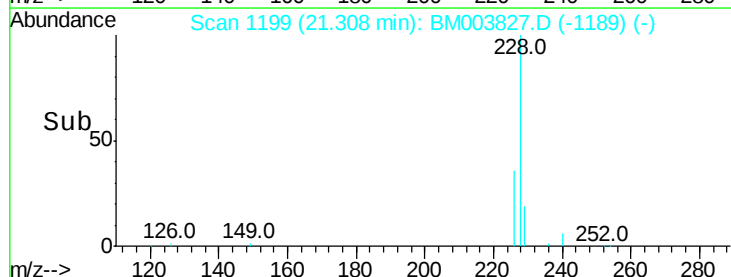
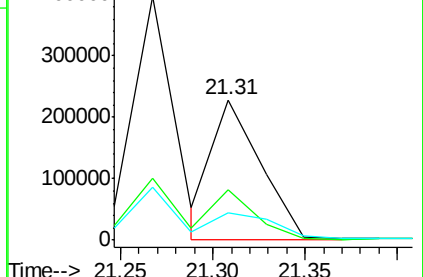
229 19.5 14.5 21.7

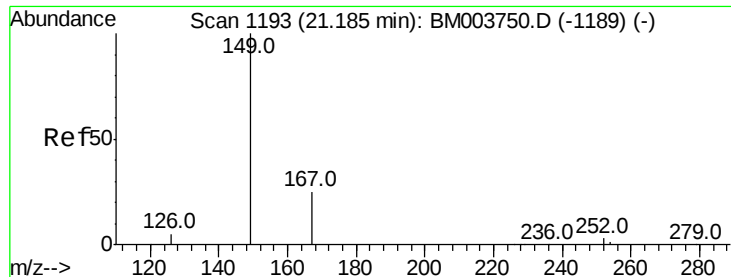


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Bis(2-ethylhexyl)phthalate

Concen: 2.09 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

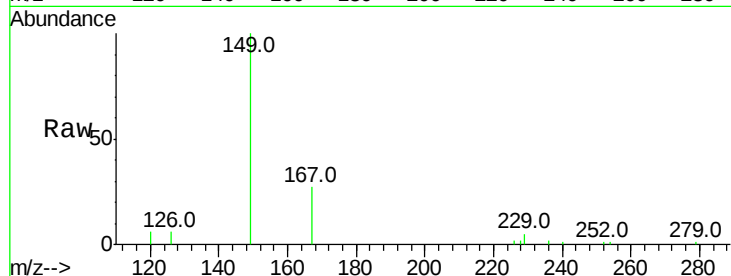
Tot Ion:149 Resp: 69426

Ion Ratio Lower Upper

149 100

167 24.6 20.1 30.1

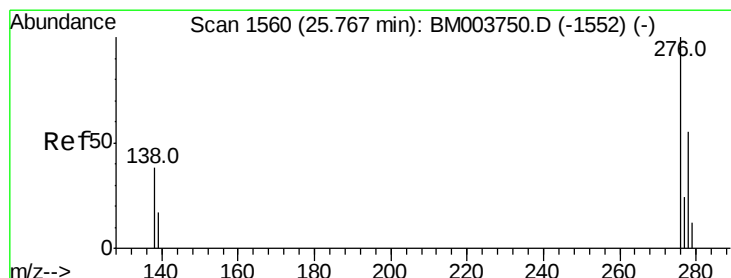
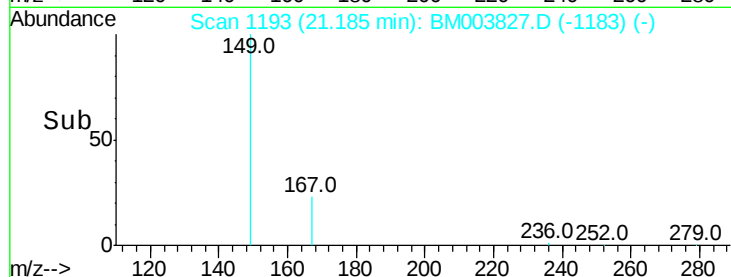
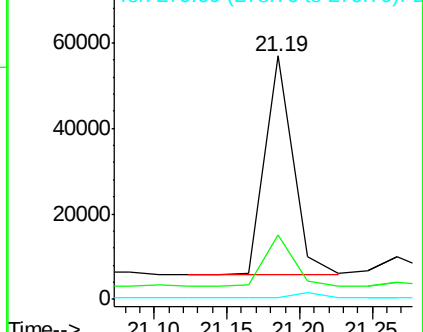
279 0.0 0.0 0.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34

Indeno(1,2,3-cd)pyrene

Concen: 4.05 ng

RT: 25.78 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

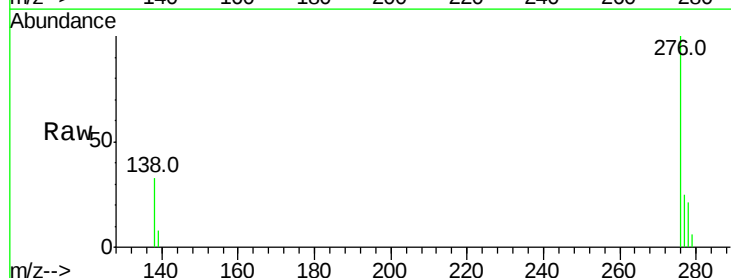
Tgt Ion:276 Resp: 197650

Ion Ratio Lower Upper

276 100

138 32.3 30.2 45.2

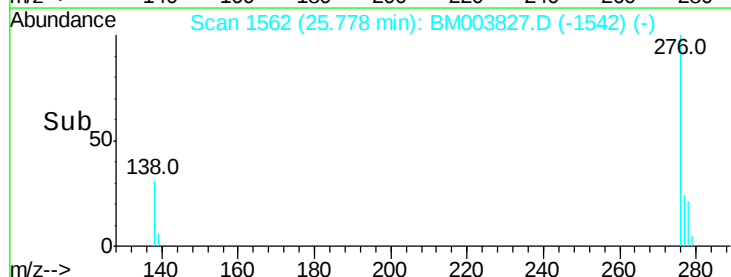
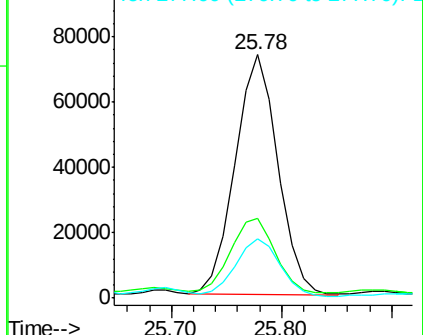
277 24.4 19.8 29.8

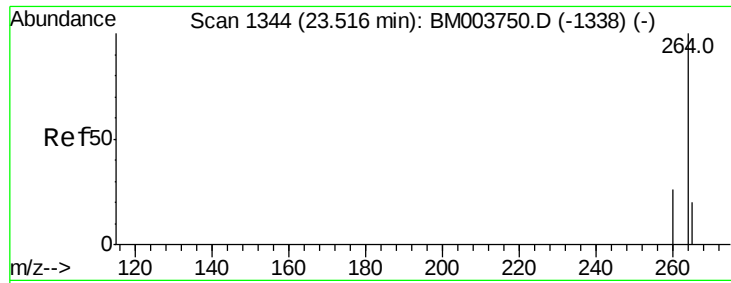


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

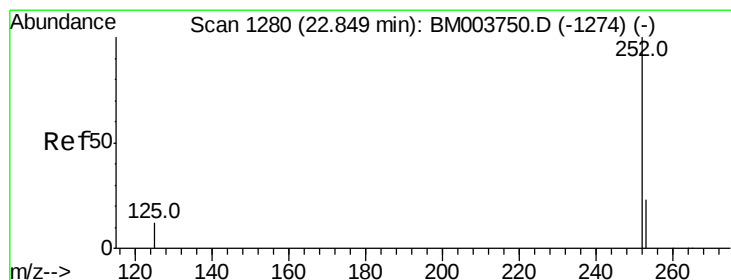
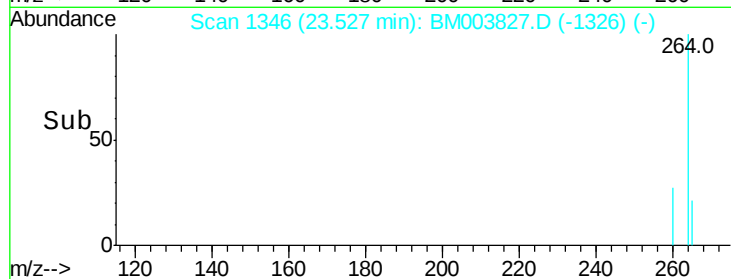
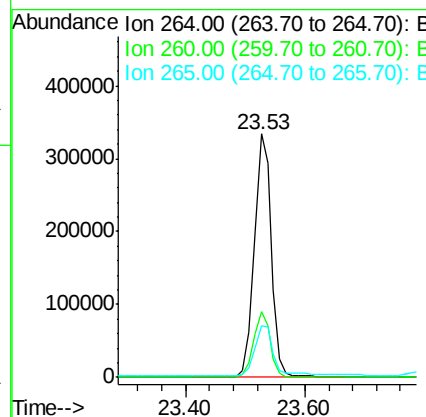
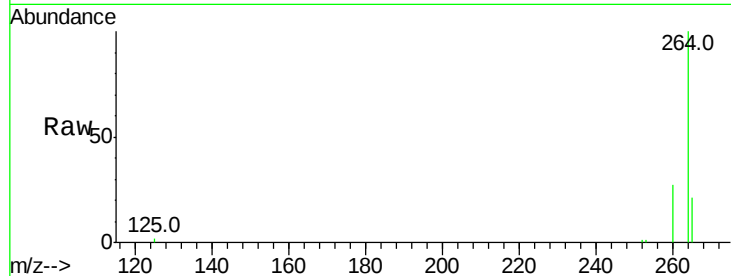




#35
 Pervlene-d12
 Concen: 20.00 ng
 RT: 23.53 min Scan# 1346
 Delta R.T. 0.01 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

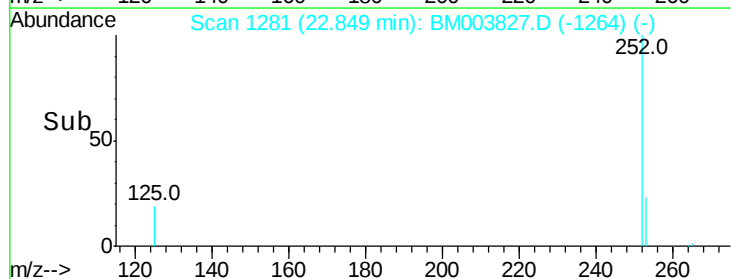
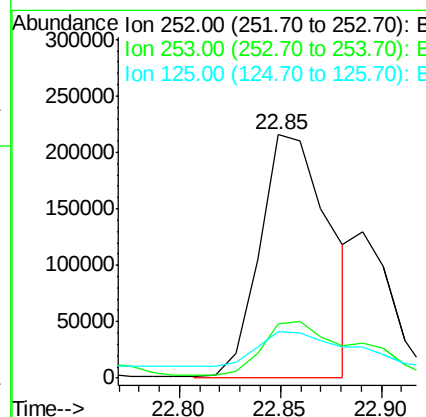
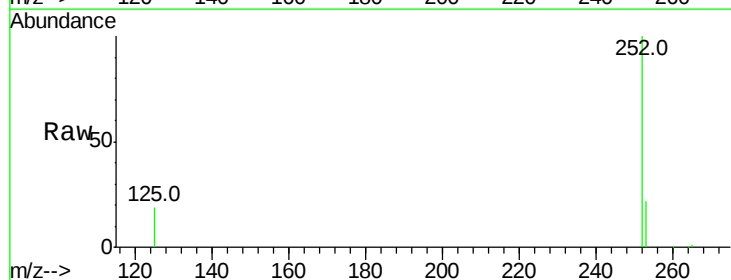
Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-003

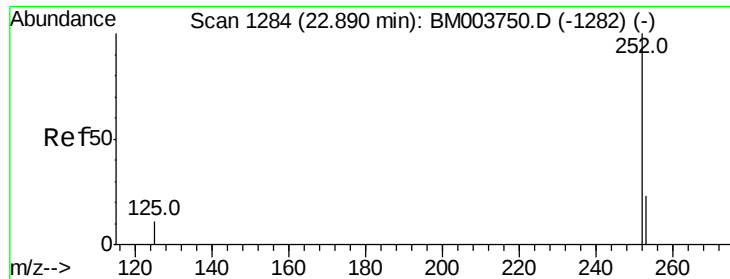
Tot Ion:264 Resp: 663898
 Ion Ratio Lower Upper
 264 100
 260 26.9 21.2 31.8
 265 21.2 16.7 25.1



#36
 Benzo(b)fluoranthene
 Concen: 9.49 ng m
 RT: 22.85 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

Tgt Ion:252 Resp: 514763
 Ion Ratio Lower Upper
 252 100
 253 22.5 18.8 28.2
 125 18.9 10.2 15.4#





#37

Benzo(k)fluoranthene

Concen: 3.41 ng/mL

RT: 22.89 min Scan# 1285

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

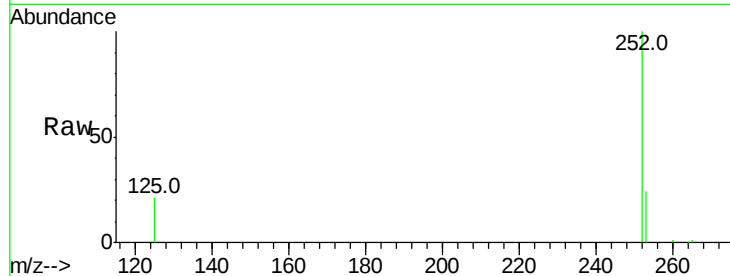
Tot Ion:252 Resp: 170688

Ion Ratio Lower Upper

252 100

253 23.9 18.3 27.5

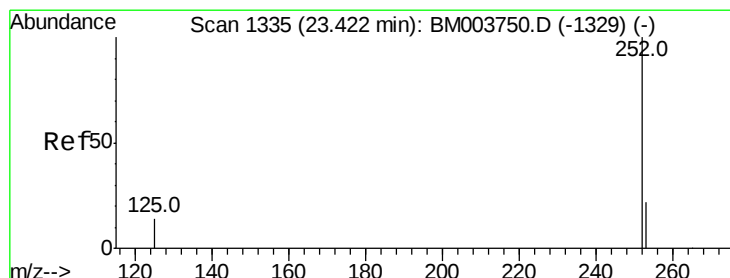
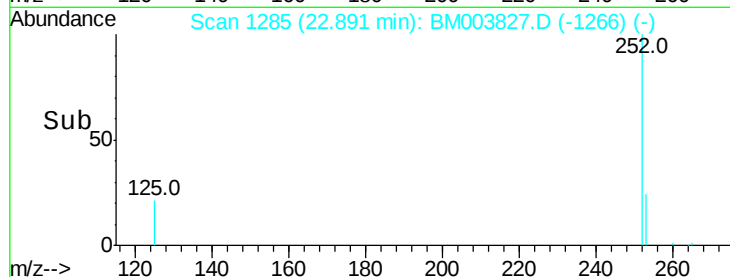
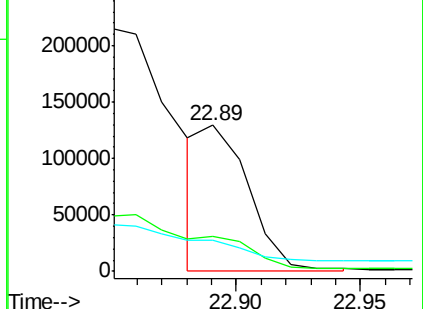
125 21.2 10.6 15.8#



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



#38

Benzo(a)pyrene

Concen: 7.61 ng/mL

RT: 23.42 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

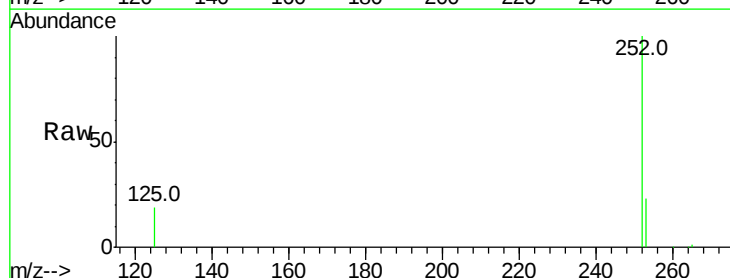
Tgt Ion:252 Resp: 353493

Ion Ratio Lower Upper

252 100

253 22.9 18.7 28.1

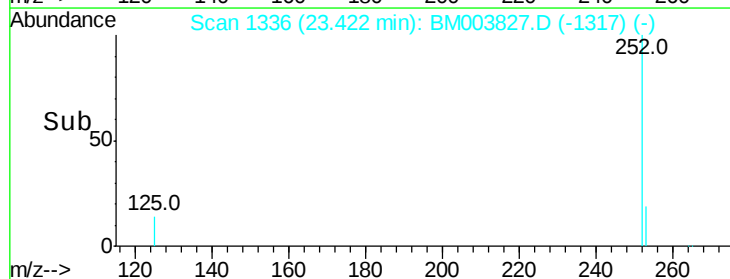
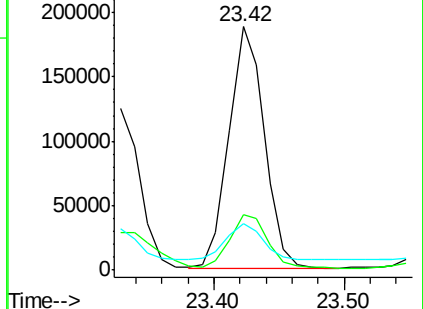
125 19.3 11.8 17.8#

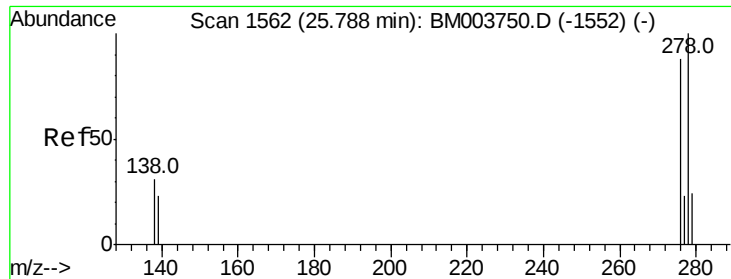


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 1.35 ng

RT: 25.79 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

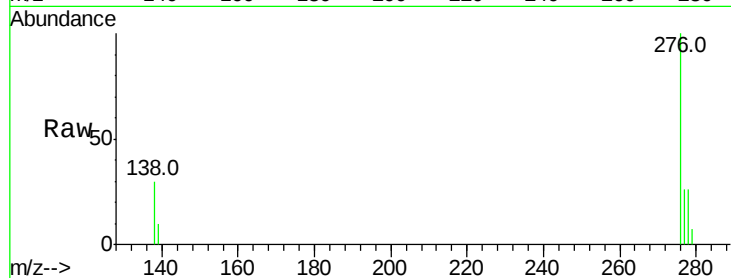
Tot Ion:278 Resp: 49044

Ion Ratio Lower Upper

278 100

139 36.2 19.0 28.6#

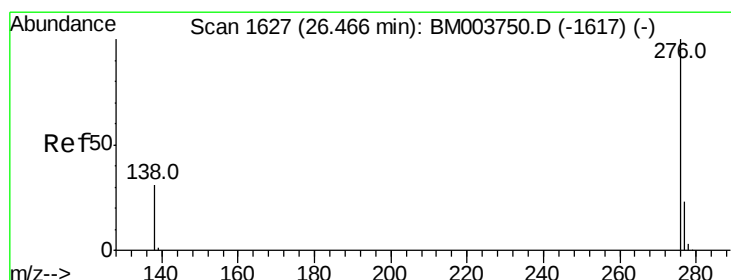
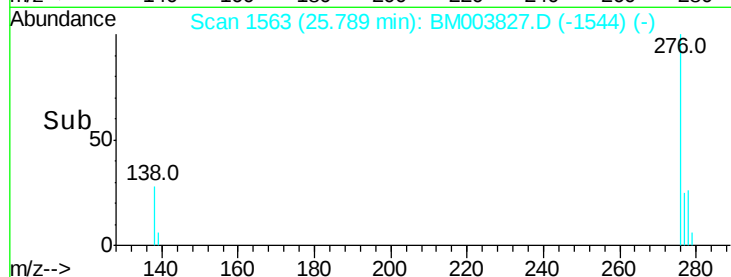
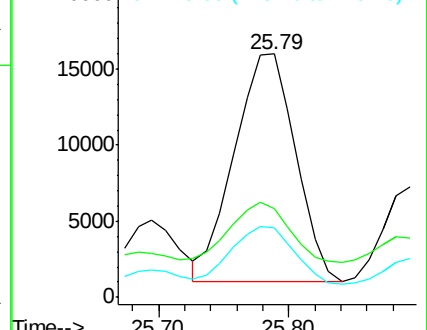
279 28.5 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#40

Benzo(g,h,i)perylene

Concen: 4.94 ng

RT: 26.47 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

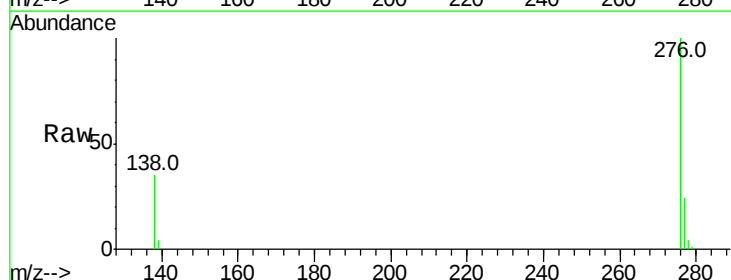
Tgt Ion:276 Resp: 188174

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 34.7 25.0 37.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

