

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
 Data File : BE091442.D
 Acq On : 3 Mar 2016 3:40
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 03 07:18:40 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 03 01:34:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	30492	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	137465	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	82886	5.00	ng	0.00
13) Phenanthrene-d10	16.08	188	201626	5.00	ng	0.00
19) Chrysene-d12	20.21	240	265004	5.00	ng	0.00
25) Perylene-d12	22.09	264	277017	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.18	82	2660	0.35	ng	0.00
9) 2-Fluorobiphenyl	12.01	172	8073	0.35	ng	0.00
21) Terphenyl-d14	18.62	244	13426	0.35	ng	0.00

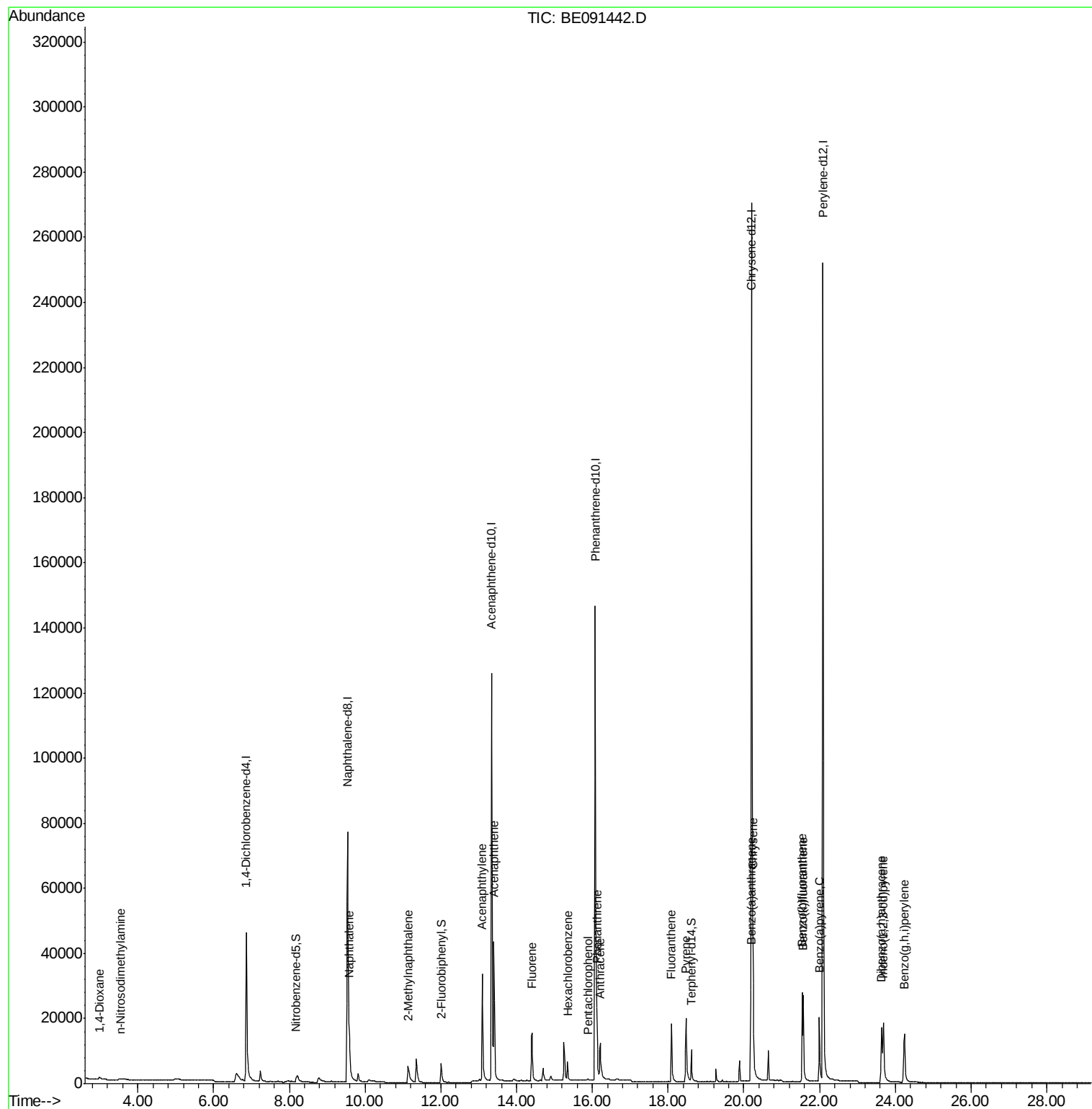
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.97	88	1261	0.41	ng	85
3) n-Nitrosodimethylamine	3.54	42	576	0.23	ng	# 81
6) Naphthalene	9.58	128	13404	0.39	ng	99
7) 2-Methylnaphthalene	11.14	142	7200	0.36	ng	100
10) Acenaphthylene	13.09	152	52833	0.37	ng	100
11) Acenaphthene	13.41	154	9816	0.38	ng	99
12) Fluorene	14.40	166	12680	0.37	ng	99
14) Hexachlorobenzene	15.35	284	4078	0.38	ng	99
15) Pentachlorophenol	15.88	266	462	0.29	ng	94
16) Phenanthrene	16.12	178	23098	0.38	ng	99
17) Anthracene	16.21	178	19198	0.36	ng	99
18) Fluoranthene	18.09	202	23623	0.37	ng	99
20) Pyrene	18.47	202	24310	0.37	ng	100
22) Benzo(a)anthracene	20.18	228	23197	0.34	ng	98
23) Chrysene	20.24	228	33441	0.38	ng	99
24) Indeno(1,2,3-cd)pyrene	23.68	276	27588	0.32	ng	98
26) Benzo(b)fluoranthene	21.54	252	27488	0.36	ng	99
27) Benzo(k)fluoranthene	21.57	252	30553	0.35	ng	100
28) Benzo(a)pyrene	21.99	252	24905	0.35	ng	99
29) Dibenzo(a,h)anthracene	23.64	278	25782	0.32	ng	99
30) Benzo(g,h,i)perylene	24.24	276	28131	0.32	ng	98

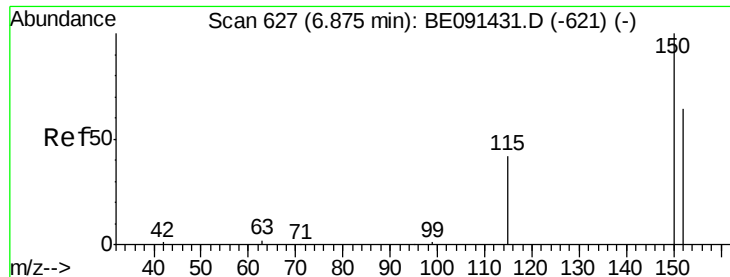
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. 0.01 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampled :

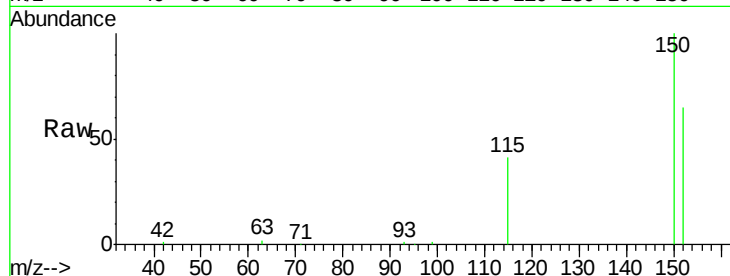
Tgt Ion:152 Resp: 30492

Ion Ratio Lower Upper

152 100

150 153.6 122.1 183.1

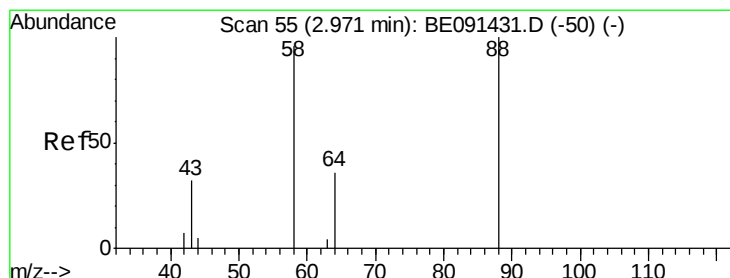
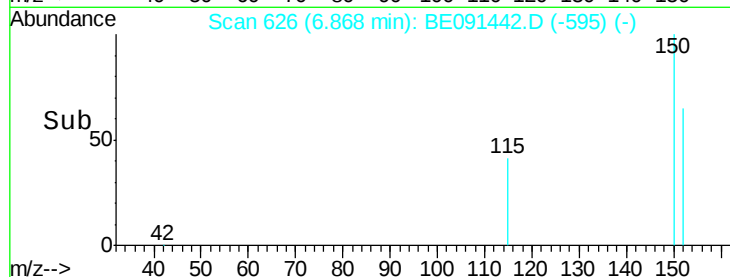
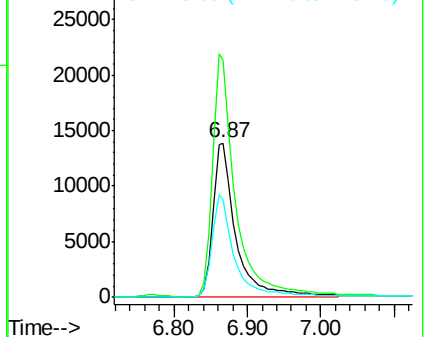
115 62.8 50.3 75.5



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



#2

1,4-Dioxane

Concen: 0.41 ng

RT: 2.97 min Scan# 55

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

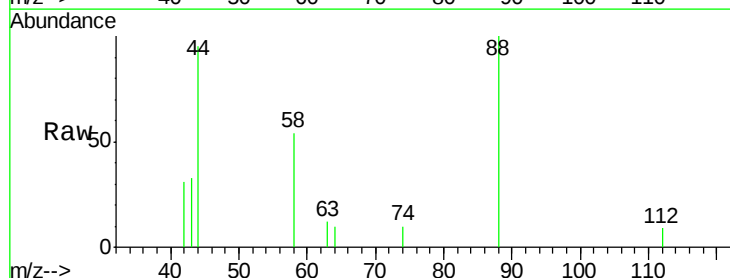
Tgt Ion: 88 Resp: 1261

Ion Ratio Lower Upper

88 100

58 93.3 88.8 133.2

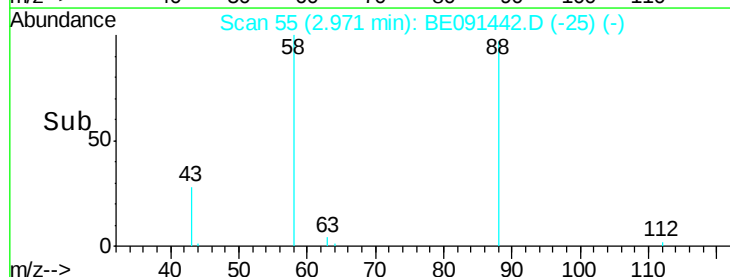
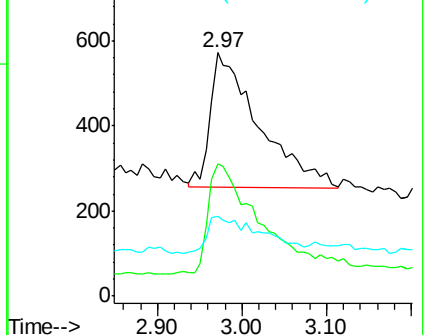
43 31.5 30.2 45.4

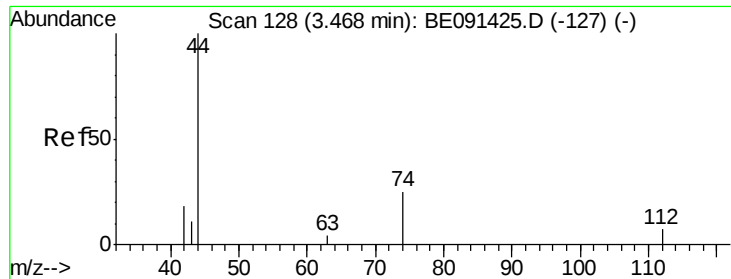


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.23 ng

RT: 3.54 min Scan# 139

Delta R.T. 0.05 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

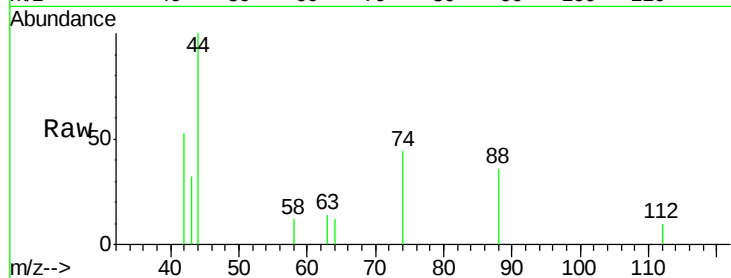
Tgt Ion: 42 Resp: 576

Ion Ratio Lower Upper

42 100

74 93.1 91.1 136.7

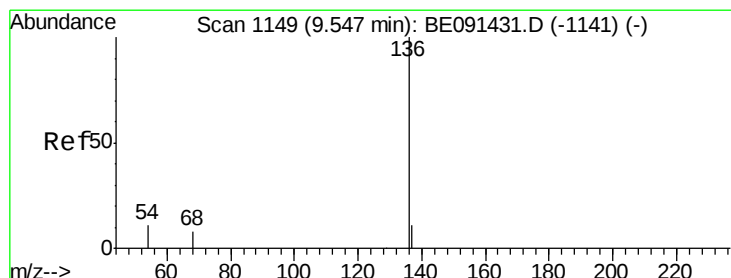
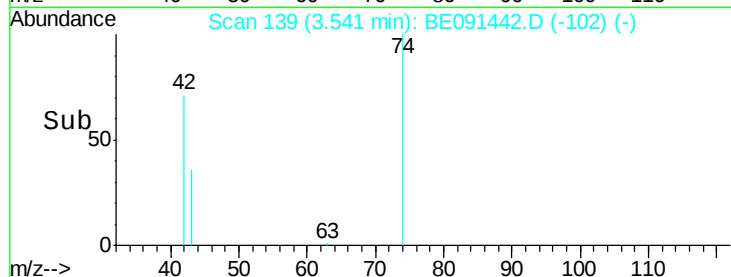
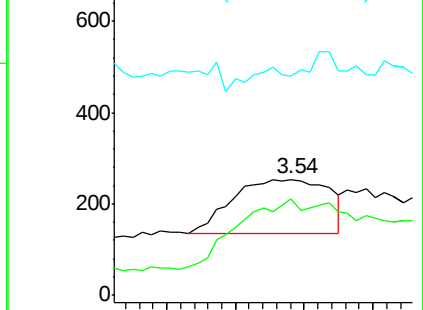
44 7.5 4.7 7.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

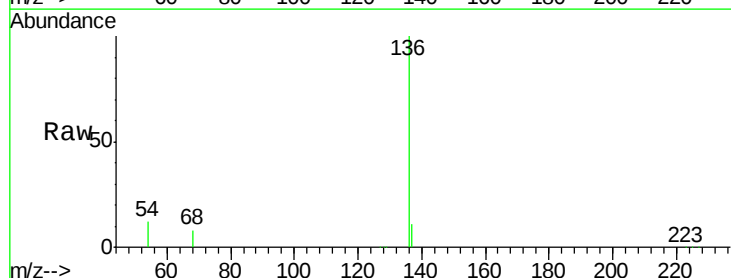
Tgt Ion: 136 Resp: 137465

Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

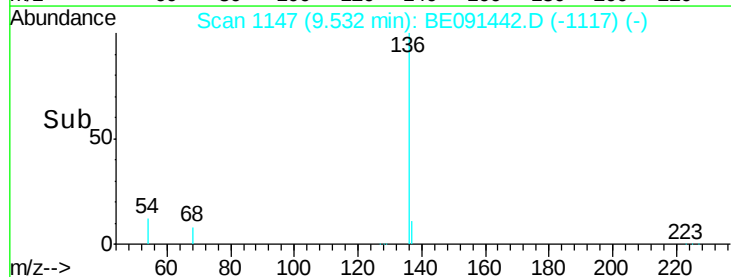
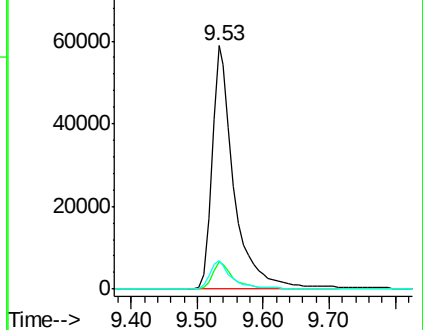
54 11.8 9.1 13.7

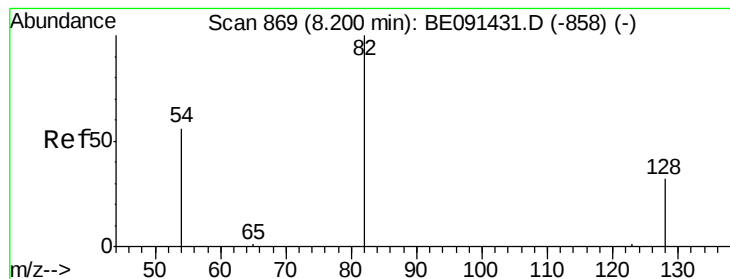


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.35 ng

RT: 8.18 min Scan# 864

Delta R.T. -0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

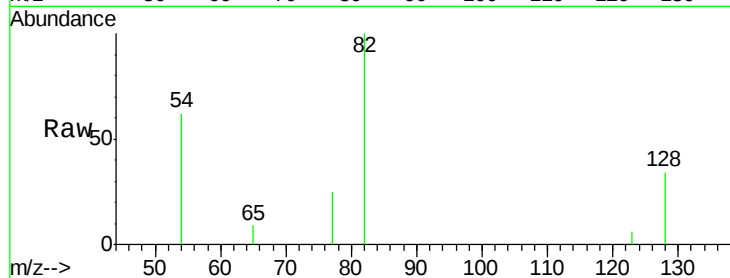
Tgt Ion: 82 Resp: 2660

Ion Ratio Lower Upper

82 100

128 34.2 31.4 47.0

54 62.1 45.5 68.3

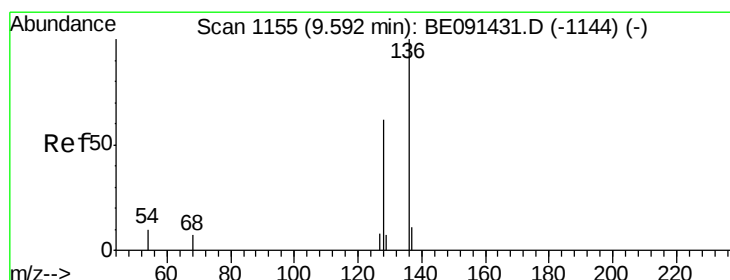
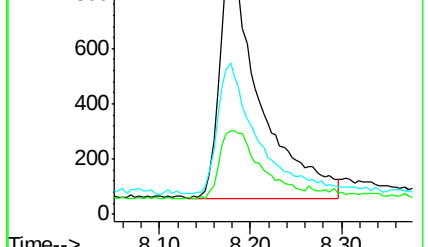
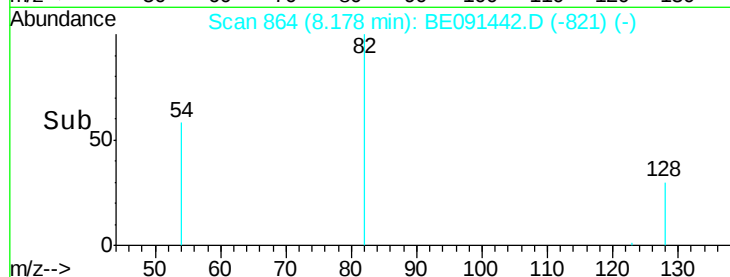


Abundance Ion 82.00 (81.70 to 82.70): BE091442.D (-821) (-)

Ion 128.00 (127.70 to 128.70): BE091442.D (-821) (-)

Ion 54.00 (53.70 to 54.70): BE091442.D (-821) (-)

Time-->



#6

Naphthalene

Concen: 0.39 ng

RT: 9.58 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

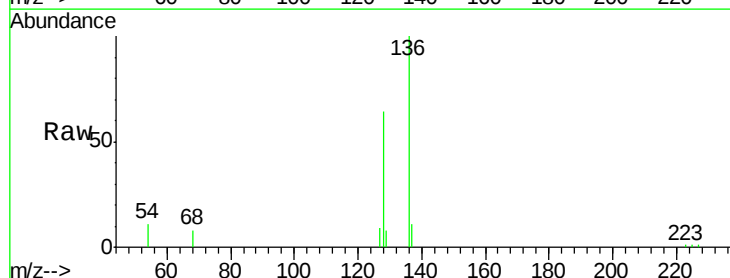
Tgt Ion: 128 Resp: 13404

Ion Ratio Lower Upper

128 100

129 12.2 9.4 14.0

127 14.2 11.0 16.6

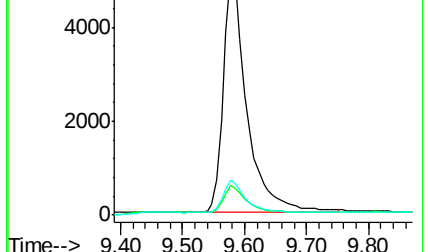
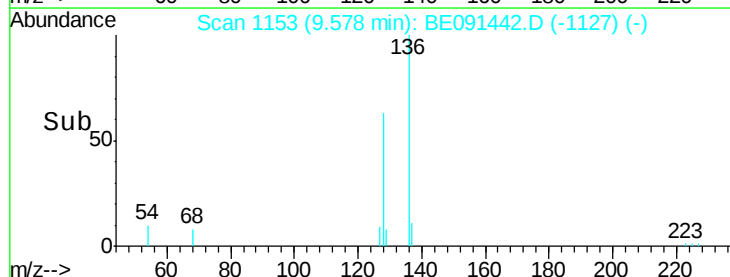


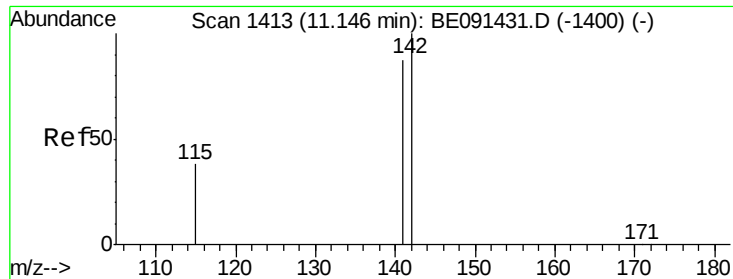
Abundance Ion 128.00 (127.70 to 128.70): BE091442.D (-1127) (-)

Ion 129.00 (128.70 to 129.70): BE091442.D (-1127) (-)

Ion 127.00 (126.70 to 127.70): BE091442.D (-1127) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 0.36 ng

RT: 11.14 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

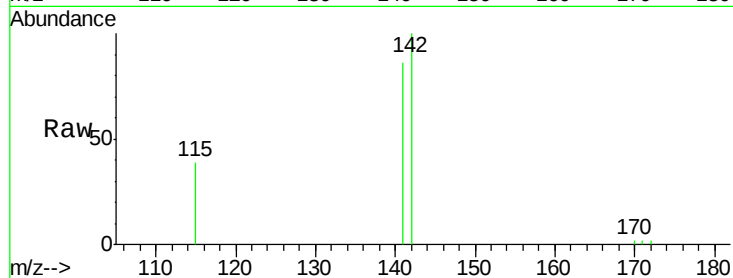
Tgt Ion:142 Resp: 7200

Ion Ratio Lower Upper

142 100

141 85.6 68.8 103.2

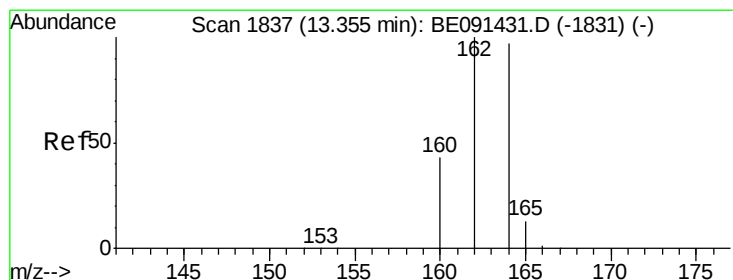
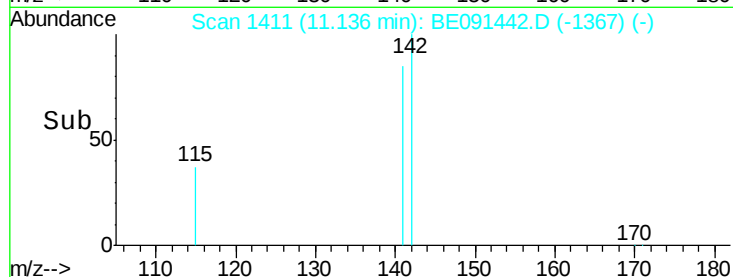
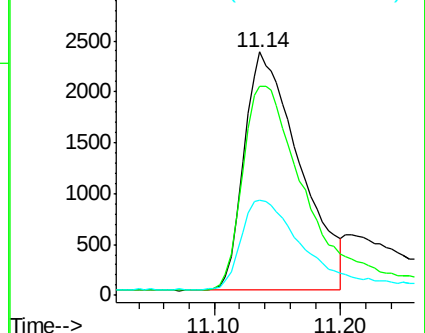
115 39.0 31.0 46.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 1836

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

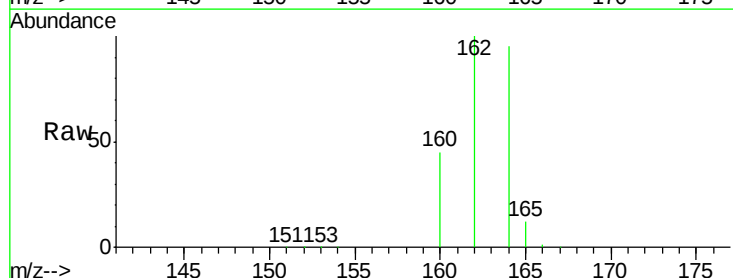
Tgt Ion:164 Resp: 82886

Ion Ratio Lower Upper

164 100

162 105.4 83.4 125.0

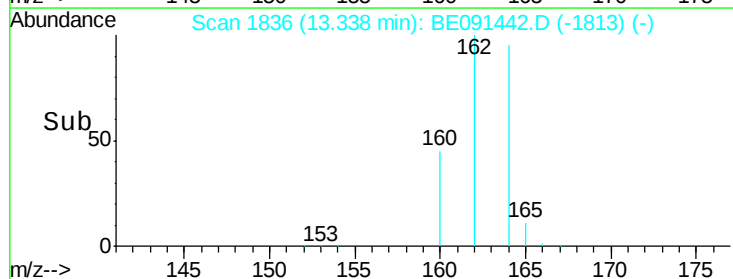
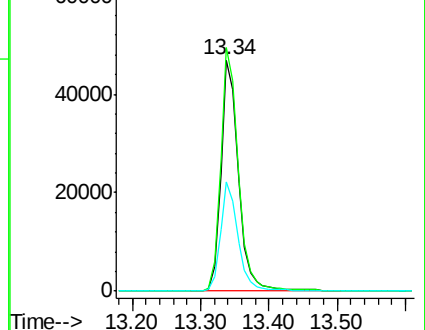
160 47.4 37.8 56.8

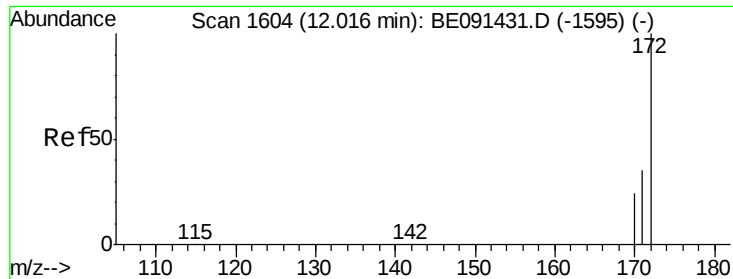


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.35 ng

RT: 12.01 min Scan# 1603

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

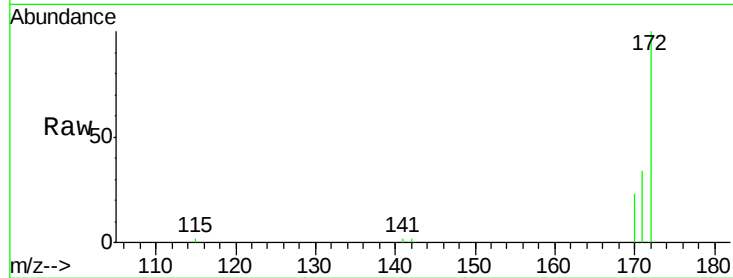
Tgt Ion:172 Resp: 8073

Ion Ratio Lower Upper

172 100

171 34.4 27.8 41.8

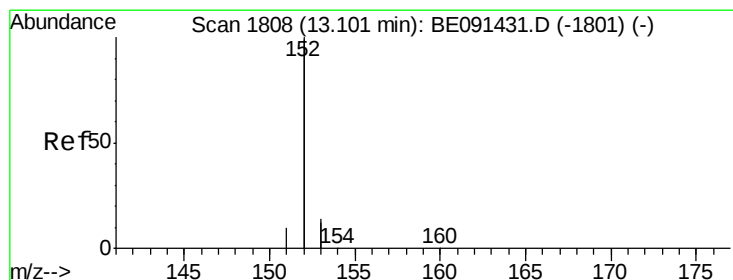
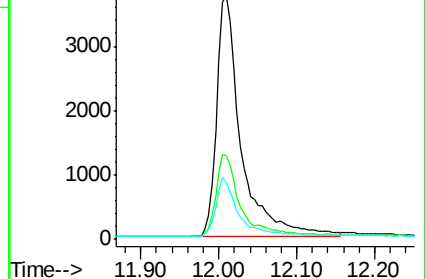
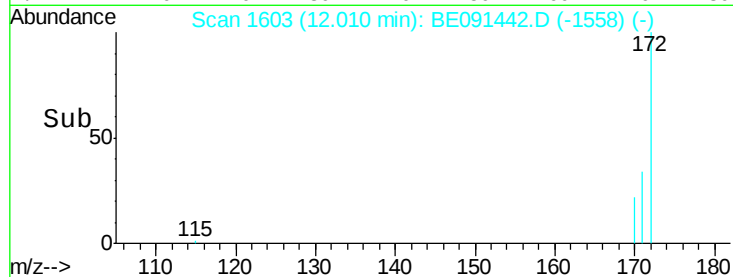
170 23.4 19.3 28.9



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



#10

Acenaphthylene

Concen: 0.37 ng

RT: 13.09 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

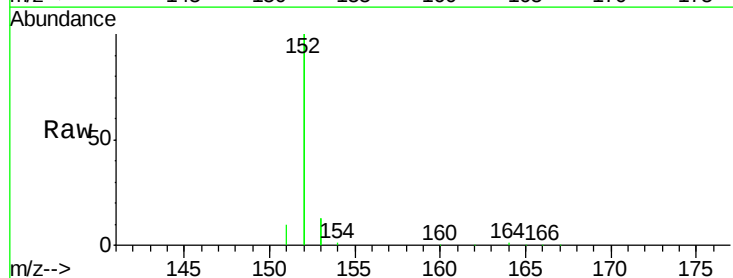
Tgt Ion:152 Resp: 52833

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

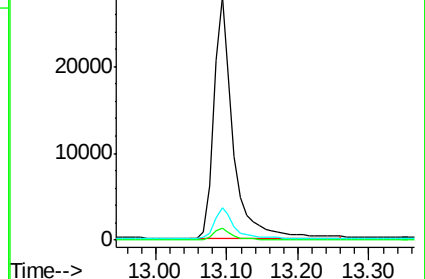
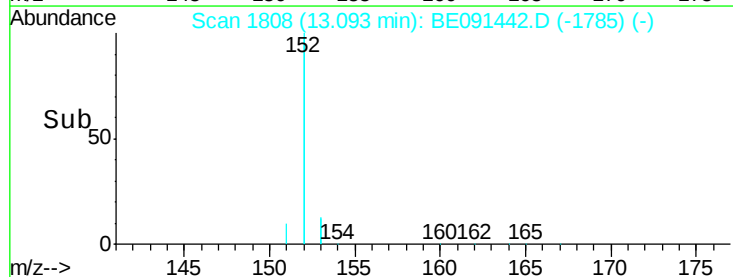
153 12.9 10.4 15.6

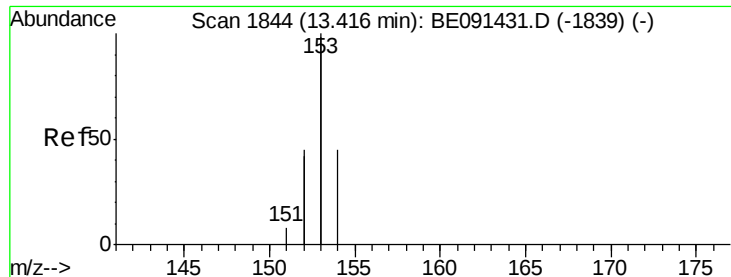


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.38 ng

RT: 13.41 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

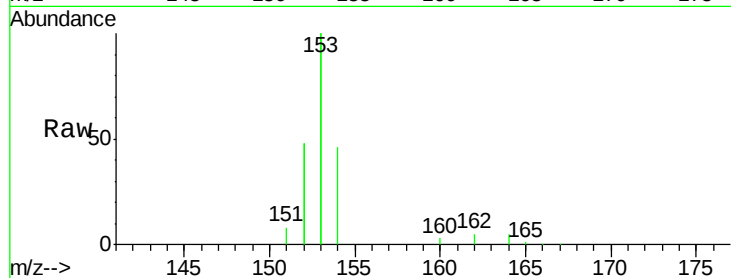
Tgt Ion:154 Resp: 9816

Ion Ratio Lower Upper

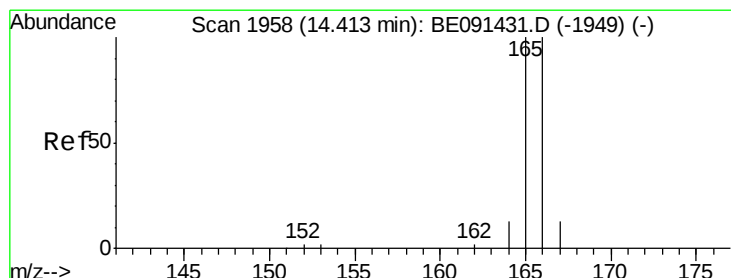
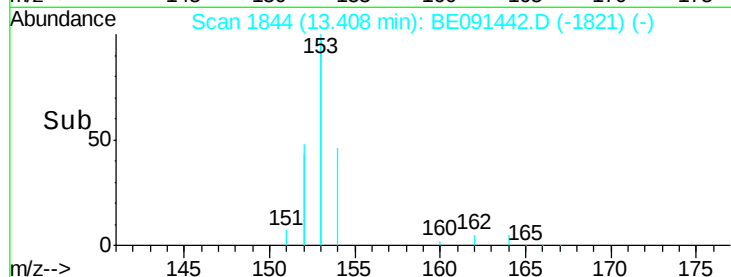
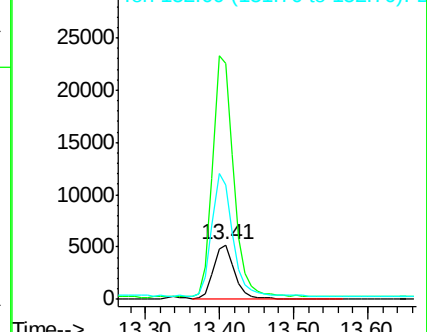
154 100

153 456.3 362.3 543.5

152 227.7 182.6 273.8



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



#12

Fluorene

Concen: 0.37 ng

RT: 14.40 min Scan# 1958

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

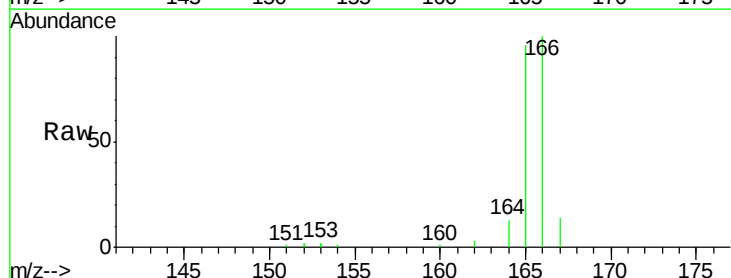
Tgt Ion:166 Resp: 12680

Ion Ratio Lower Upper

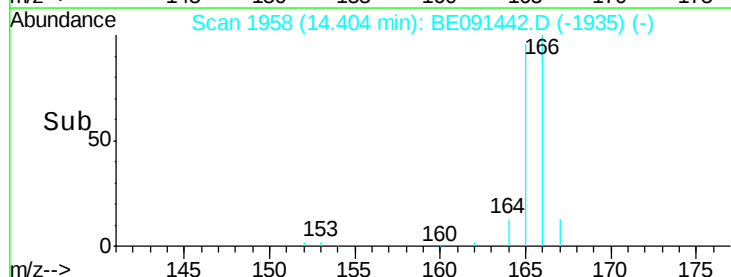
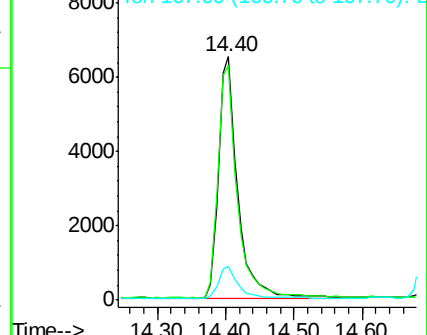
166 100

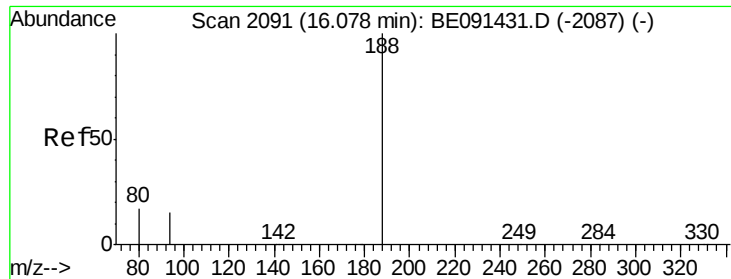
165 97.6 79.1 118.7

167 13.2 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

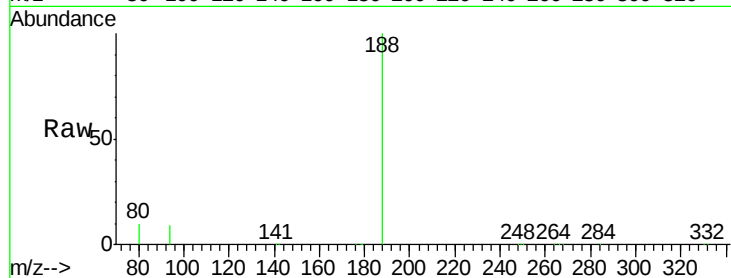
Tgt Ion:188 Resp: 201626

Ion Ratio Lower Upper

188 100

94 9.3 7.0 10.6

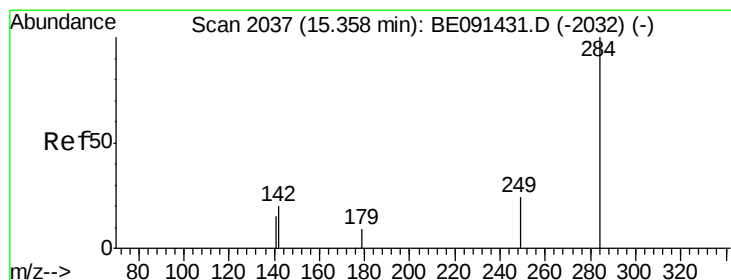
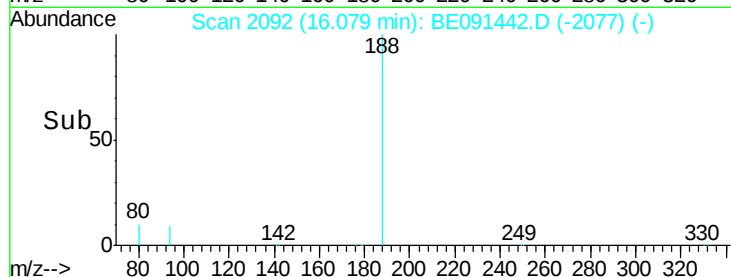
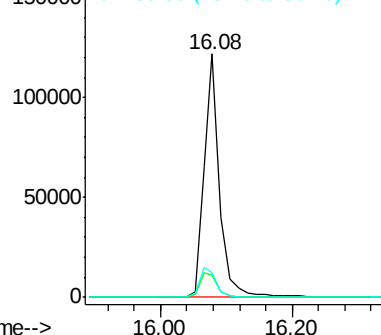
80 10.0 7.5 11.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.38 ng

RT: 15.35 min Scan# 2037

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

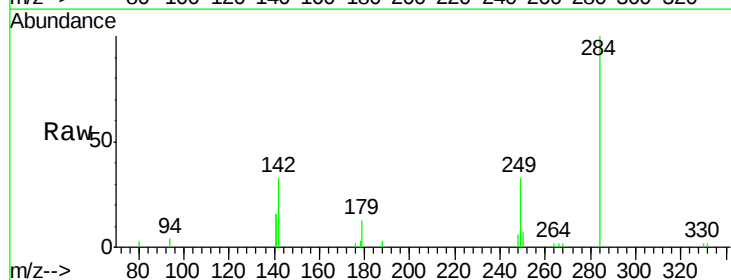
Tgt Ion:284 Resp: 4078

Ion Ratio Lower Upper

284 100

142 37.9 30.4 45.6

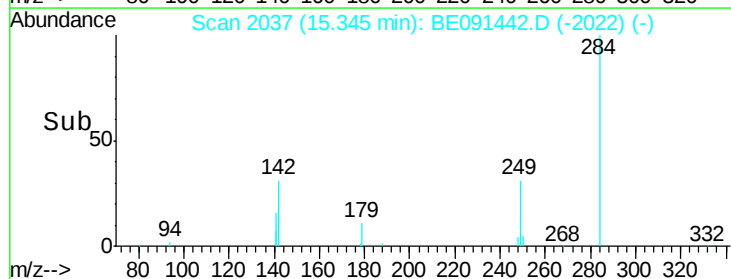
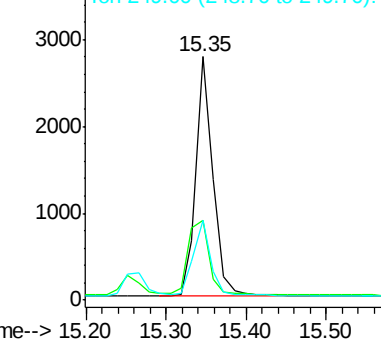
249 32.4 26.5 39.7

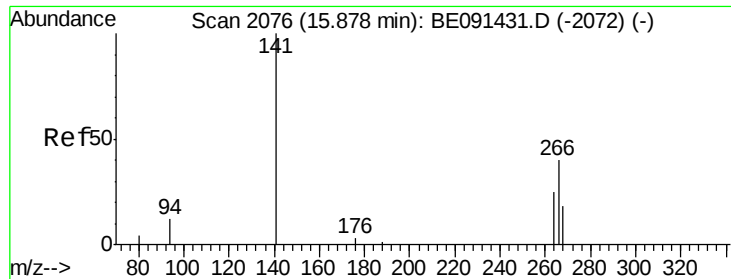


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

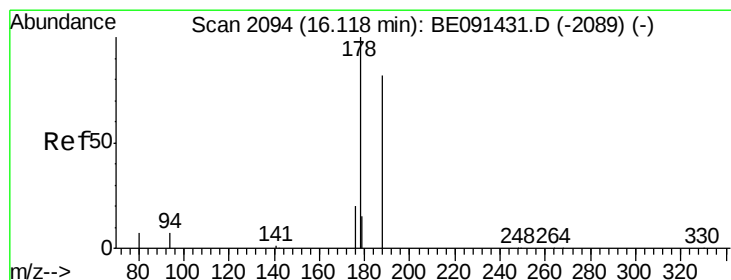
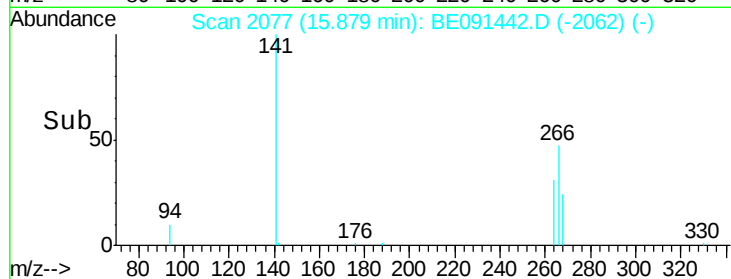
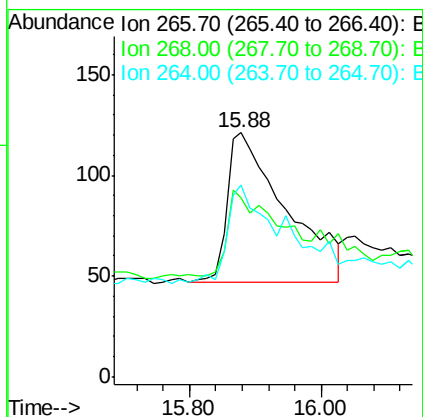
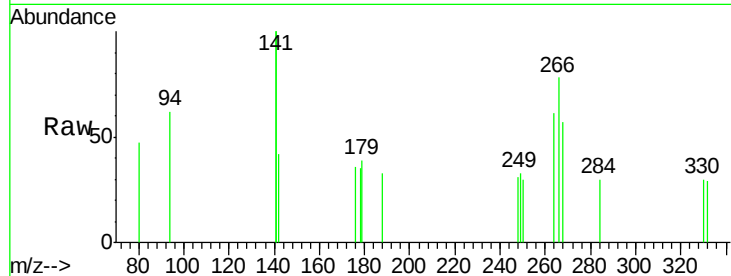




#15
 Pentachlorophenol
 Concen: 0.29 ng
 RT: 15.88 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: BE091442.D
 Acq: 3 Mar 2016 3:40

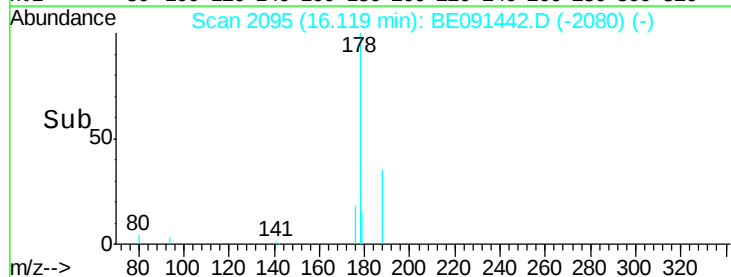
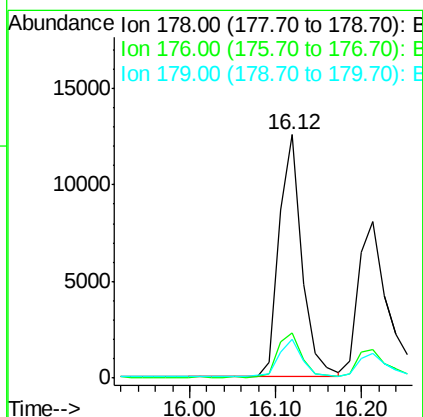
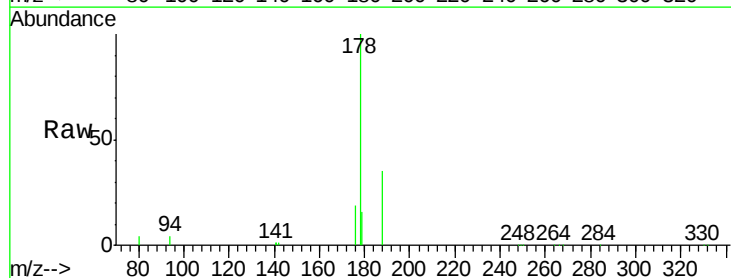
Instrument :
 BNA_F
 ClientSampleId :

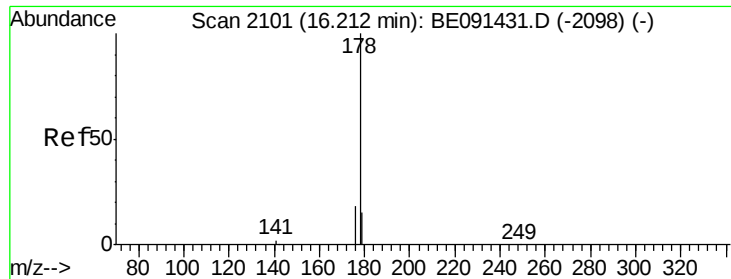
Tgt Ion: 266 Resp: 462
 Ion Ratio Lower Upper
 266 100
 268 73.6 65.4 98.2
 264 78.5 61.2 91.8



#16
 Phenanthrene
 Concen: 0.38 ng
 RT: 16.12 min Scan# 2095
 Delta R.T. 0.00 min
 Lab File: BE091442.D
 Acq: 3 Mar 2016 3:40

Tgt Ion: 178 Resp: 23098
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.0 22.4
 179 16.0 12.6 19.0

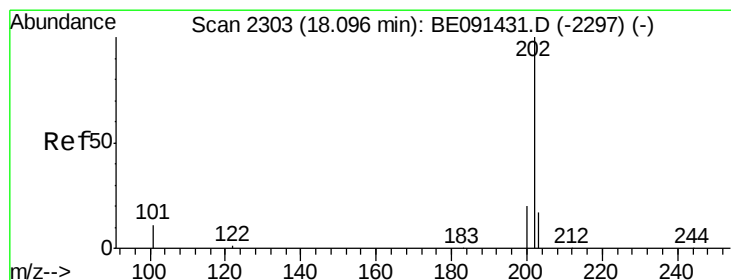
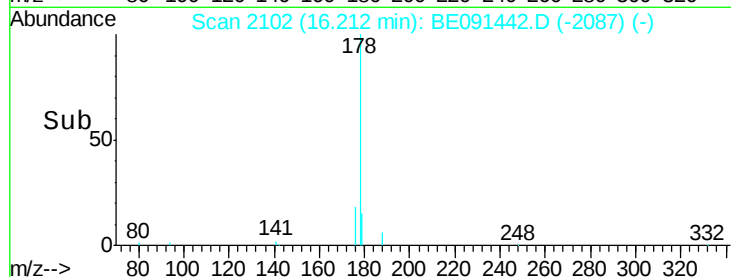
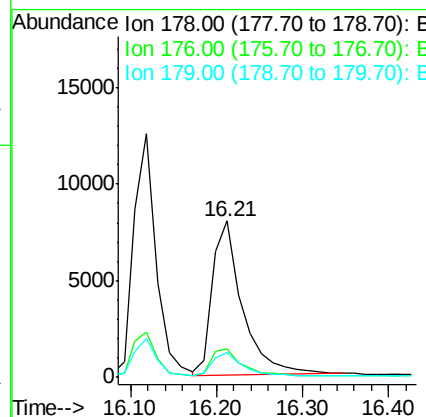
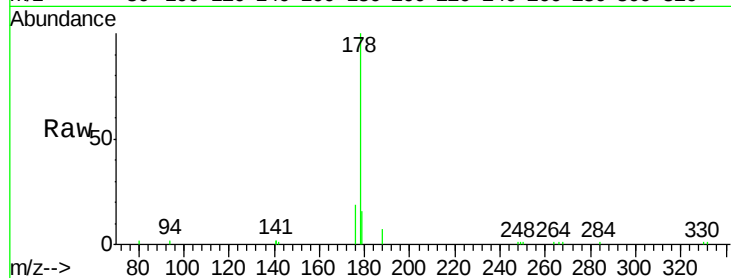




#17
 Anthracene
 Concen: 0.36 ng
 RT: 16.21 min Scan# 2102
 Delta R.T. 0.00 min
 Lab File: BE091442.D
 Acq: 3 Mar 2016 3:40

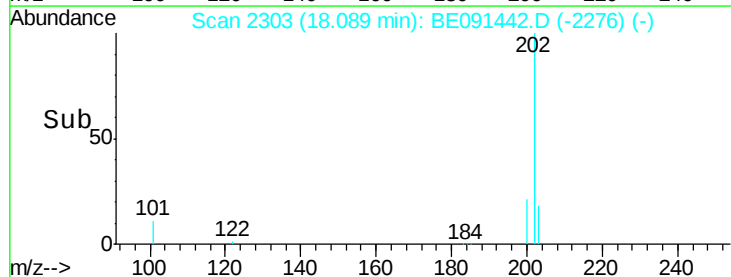
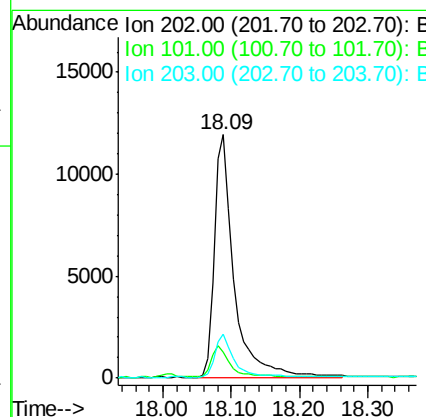
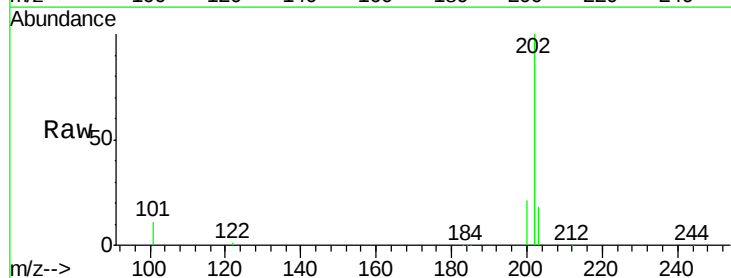
Instrument :
 BNA_F
 ClientSampleId :

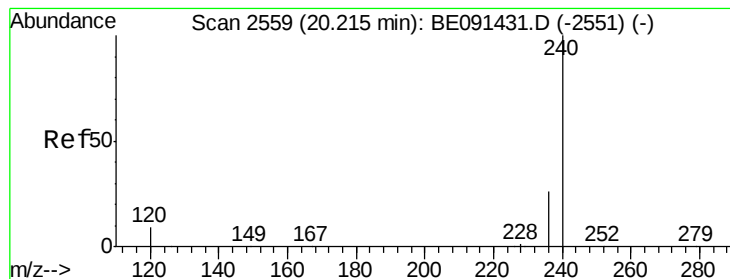
Tgt Ion:178 Resp: 19198
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.7 22.1
 179 15.9 13.0 19.4



#18
 Fluoranthene
 Concen: 0.37 ng
 RT: 18.09 min Scan# 2303
 Delta R.T. 0.00 min
 Lab File: BE091442.D
 Acq: 3 Mar 2016 3:40

Tgt Ion:202 Resp: 23623
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.3 15.5
 203 17.3 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

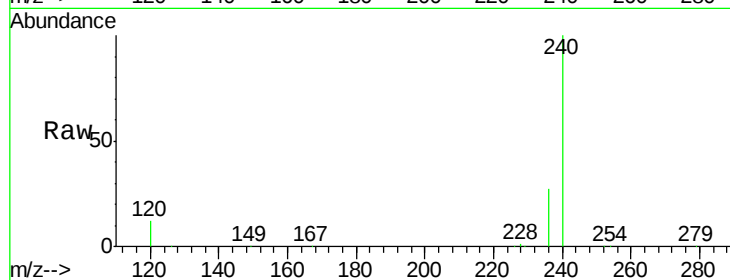
Tgt Ion:240 Resp: 265004

Ion Ratio Lower Upper

240 100

120 11.7 9.4 14.2

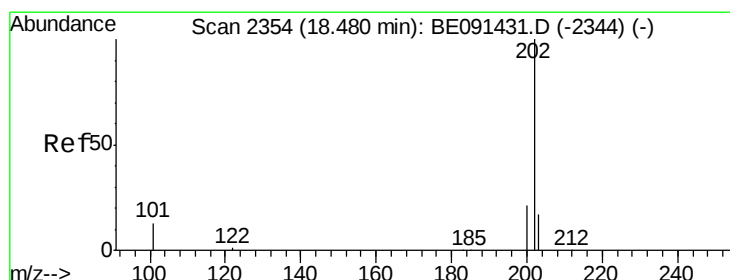
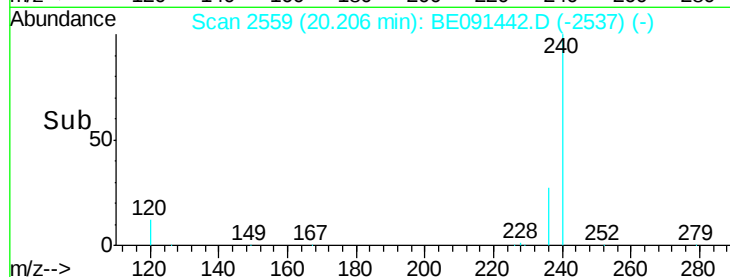
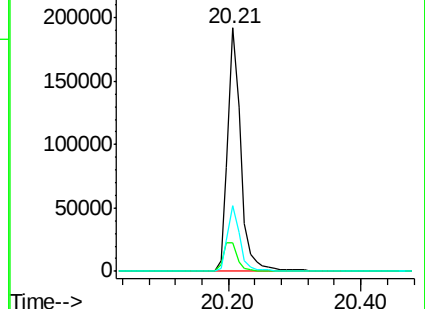
236 27.0 21.5 32.3



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



#20

Pyrene

Concen: 0.37 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.01 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

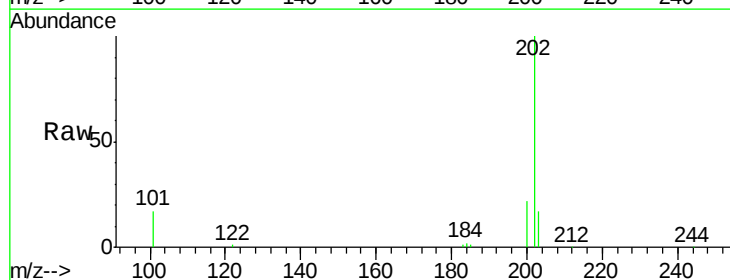
Tgt Ion:202 Resp: 24310

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

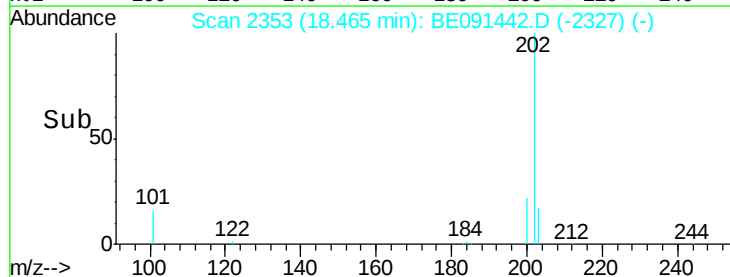
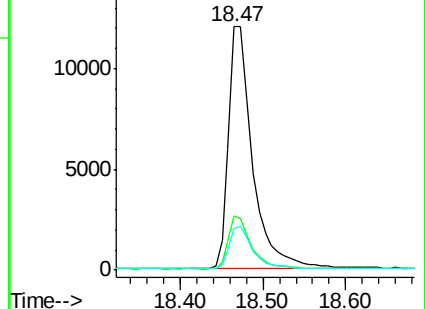
203 17.7 13.9 20.9

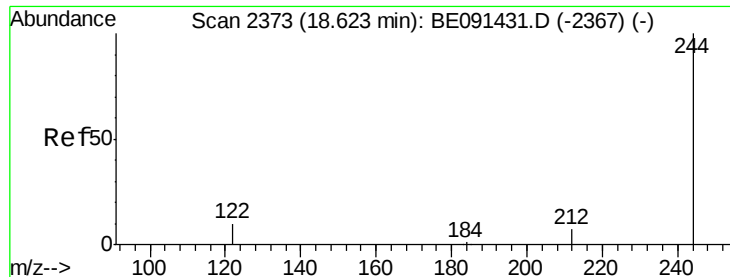


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.35 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.00 min

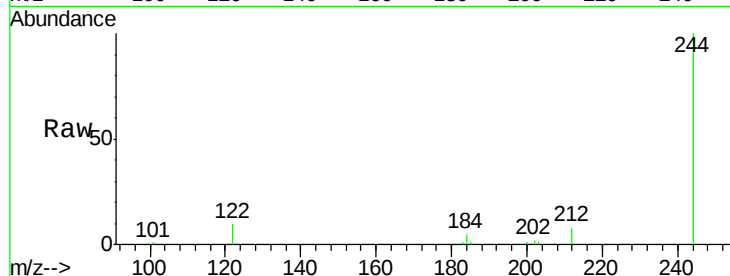
Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampled :



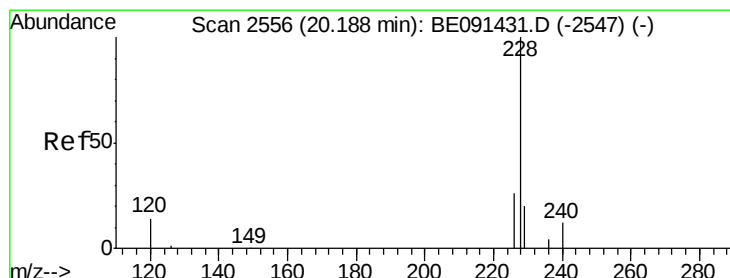
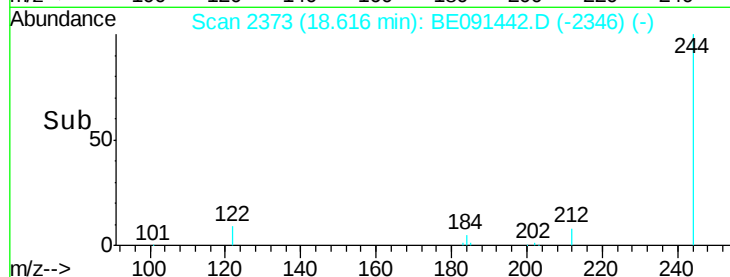
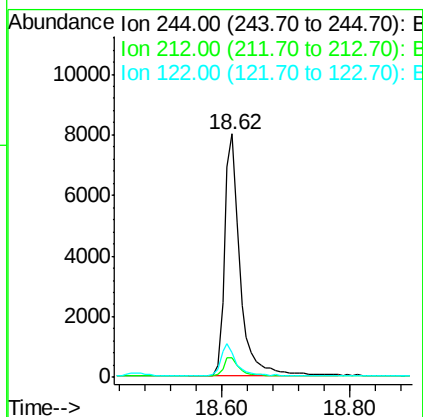
Tgt Ion:244 Resp: 13426

Ion Ratio Lower Upper

244 100

212 8.2 7.2 10.8

122 10.0 11.1 16.7#



#22

Benzo(a)anthracene

Concen: 0.34 ng

RT: 20.18 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

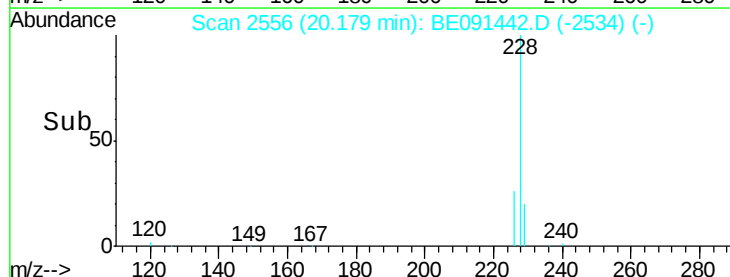
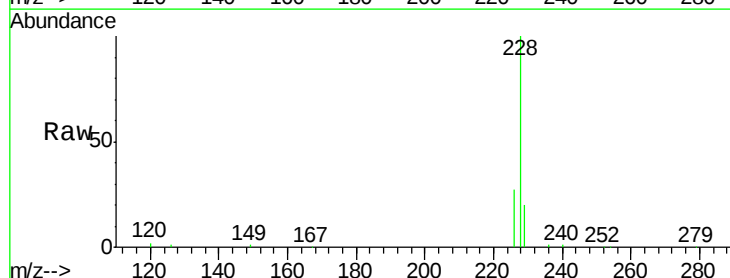
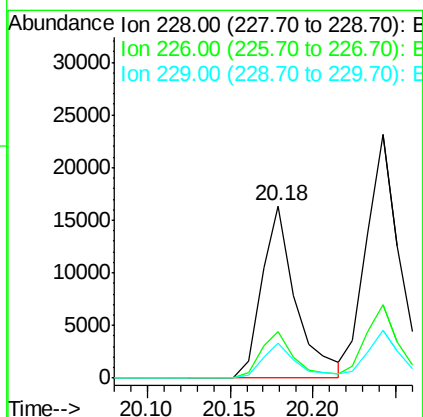
Tgt Ion:228 Resp: 23197

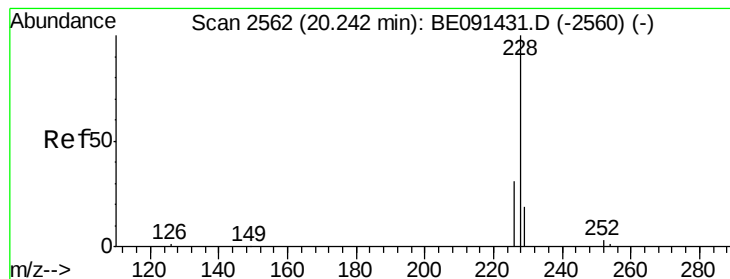
Ion Ratio Lower Upper

228 100

226 26.7 20.8 31.2

229 20.0 16.6 25.0





#23

Chrysene

Concen: 0.38 ng

RT: 20.24 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

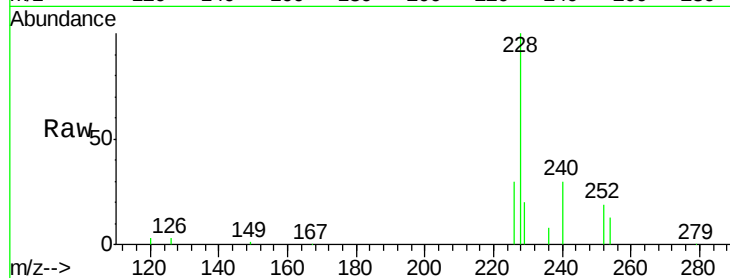
Tgt Ion:228 Resp: 33441

Ion Ratio Lower Upper

228 100

226 30.0 24.1 36.1

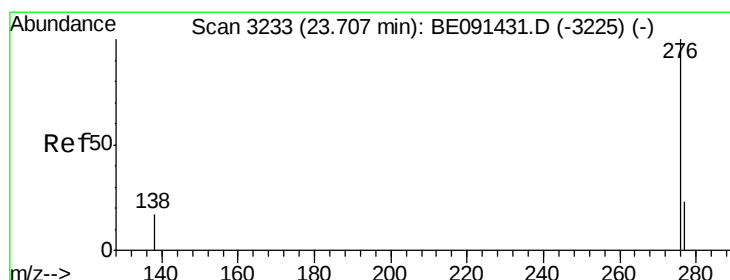
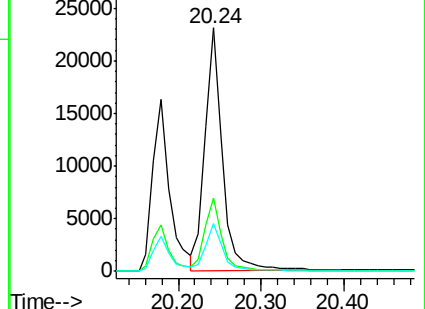
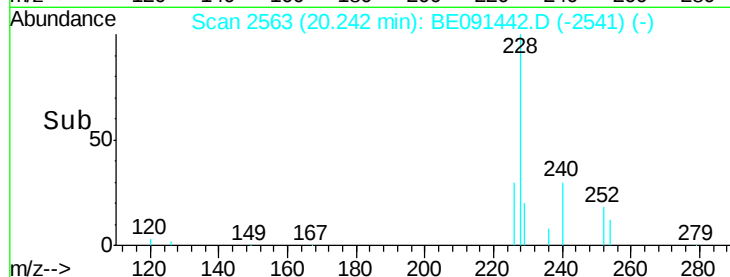
229 19.7 15.4 23.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.32 ng

RT: 23.68 min Scan# 3229

Delta R.T. -0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

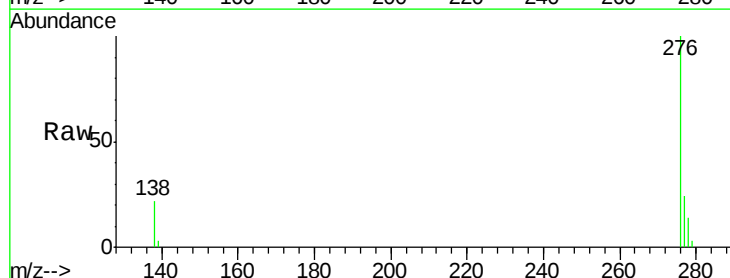
Tgt Ion:276 Resp: 27588

Ion Ratio Lower Upper

276 100

138 20.5 16.3 24.5

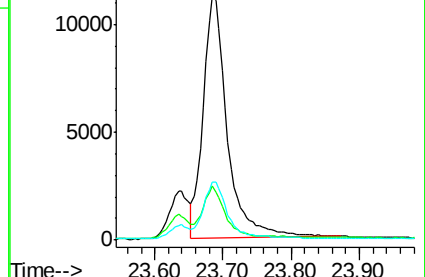
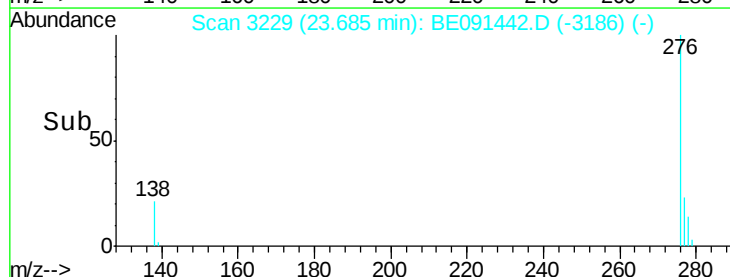
277 24.0 18.1 27.1

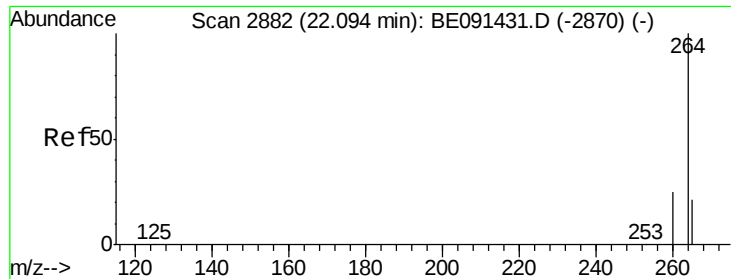


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Perylene-d12

Concen: 5.00 ng

RT: 22.09 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

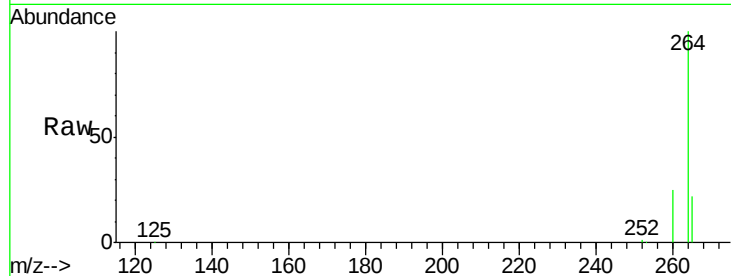
Tgt Ion:264 Resp: 277017

Ion Ratio Lower Upper

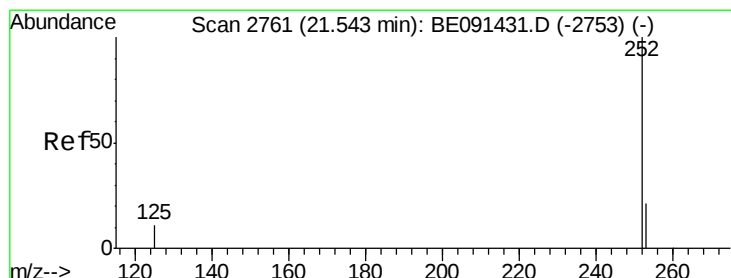
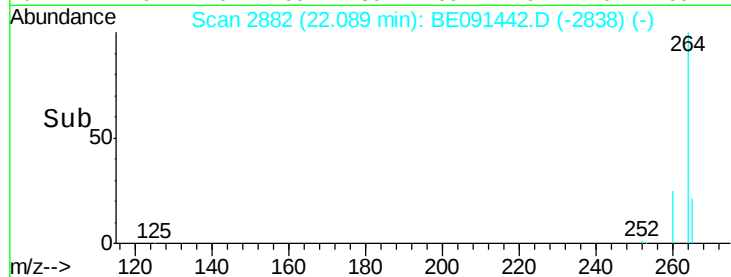
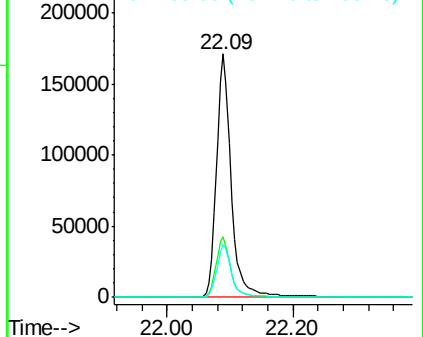
264 100

260 24.8 20.2 30.2

265 21.6 17.2 25.8



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



#26

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 21.54 min Scan# 2762

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

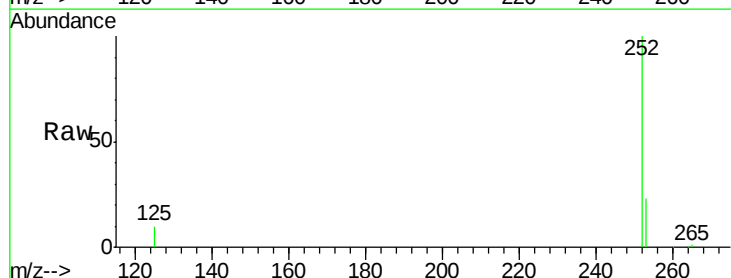
Tgt Ion:252 Resp: 27488

Ion Ratio Lower Upper

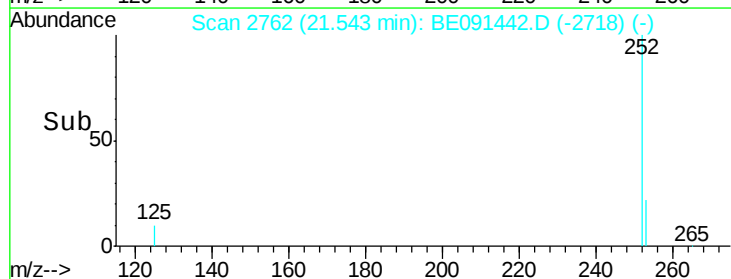
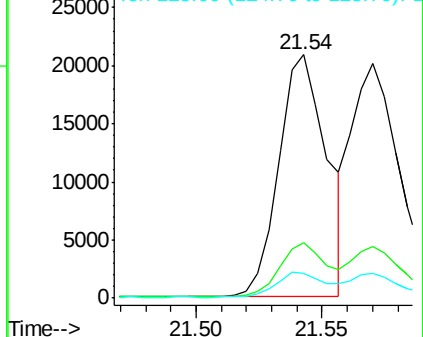
252 100

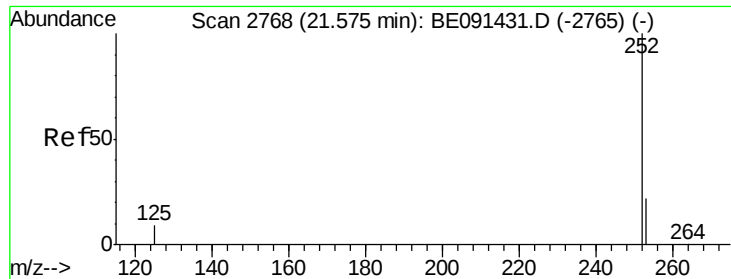
253 22.9 17.8 26.6

125 10.2 8.6 12.8



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

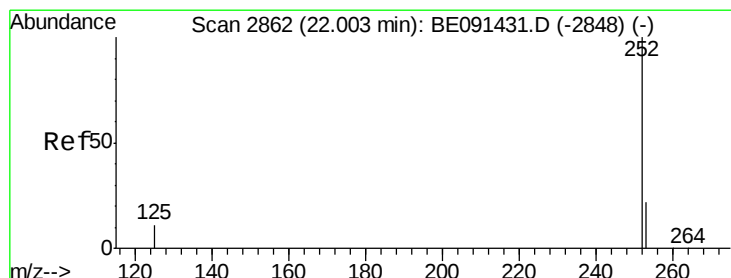
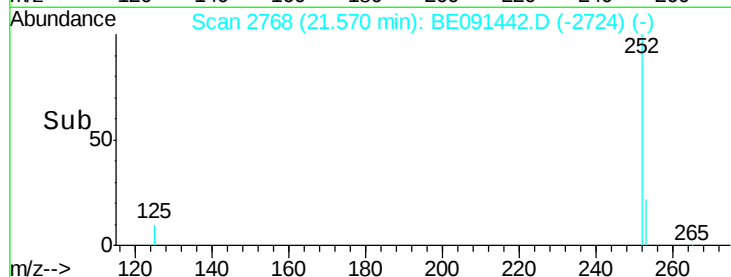
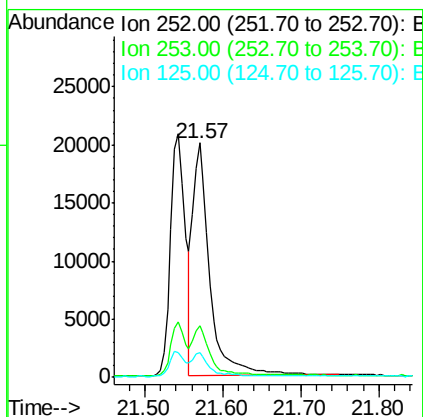
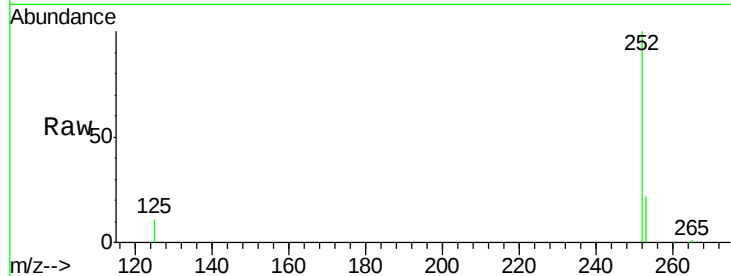




#27
Benzo(k)fluoranthene
Concen: 0.35 ng
RT: 21.57 min Scan# 2768
Delta R.T. 0.00 min
Lab File: BE091442.D
Acq: 3 Mar 2016 3:40

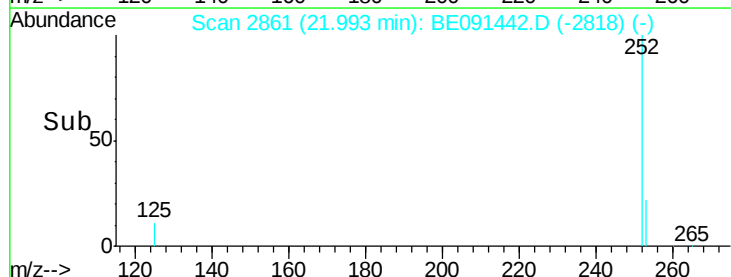
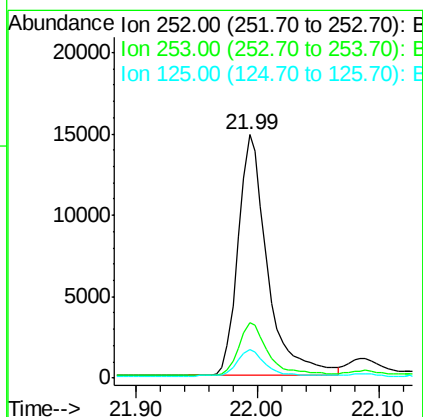
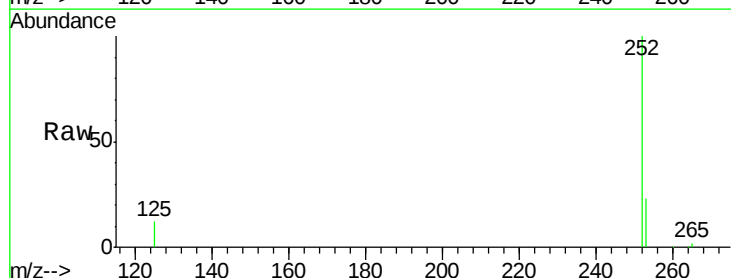
Instrument :
BNA_F
ClientSampleId :

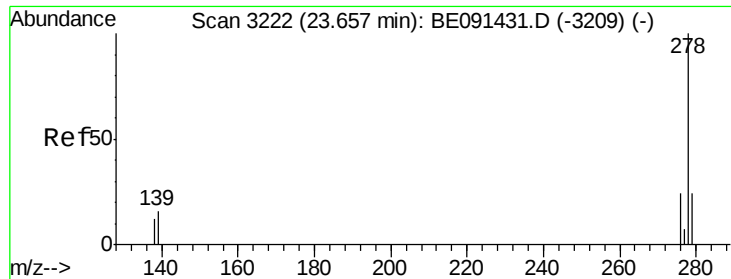
Tgt Ion:252 Resp: 30553
Ion Ratio Lower Upper
252 100
253 22.3 17.9 26.9
125 10.6 8.4 12.6



#28
Benzo(a)pyrene
Concen: 0.35 ng
RT: 21.99 min Scan# 2861
Delta R.T. -0.00 min
Lab File: BE091442.D
Acq: 3 Mar 2016 3:40

Tgt Ion:252 Resp: 24905
Ion Ratio Lower Upper
252 100
253 22.6 18.8 28.2
125 11.7 9.3 13.9





#29

Dibenzo(a,h)anthracene

Concen: 0.32 ng

RT: 23.64 min Scan# 3219

Delta R.T. 0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

Instrument :

BNA_F

ClientSampleId :

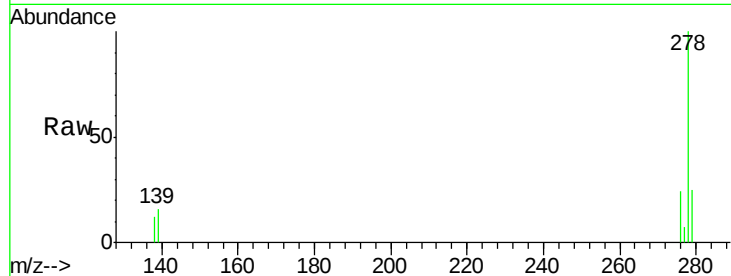
Tgt Ion: 278 Resp: 25782

Ion Ratio Lower Upper

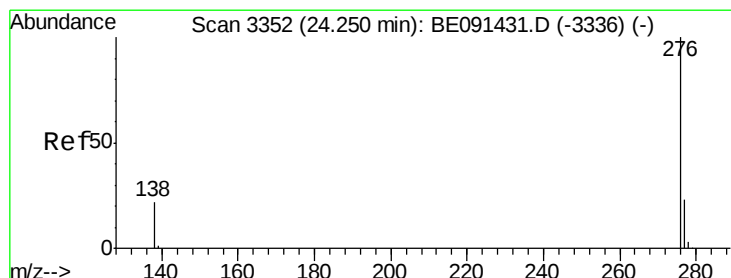
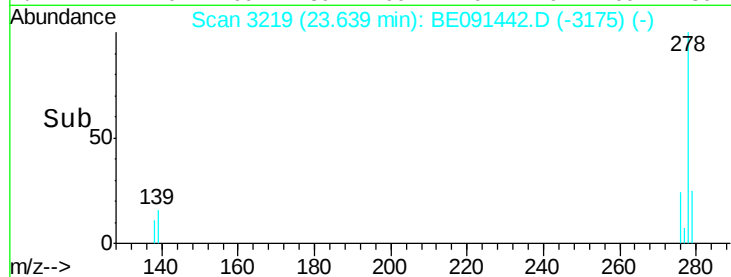
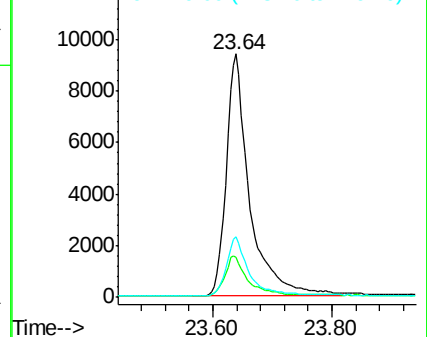
278 100

139 16.4 13.4 20.0

279 25.0 19.3 28.9



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



#30

Benzo(g,h,i)perylene

Concen: 0.32 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.00 min

Lab File: BE091442.D

Acq: 3 Mar 2016 3:40

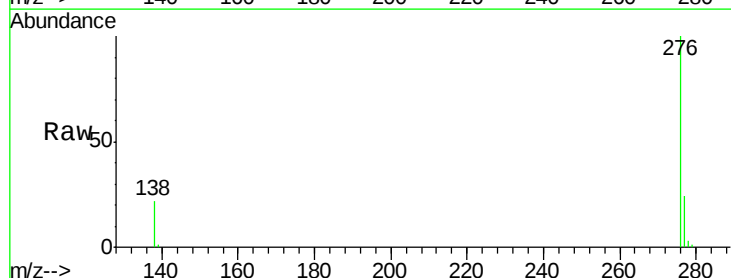
Tgt Ion: 276 Resp: 28131

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 22.4 18.6 28.0



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

