

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089677.D
 Acq On : 24 Feb 2015 18:56
 Operator : TP/JJ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Quant Time: Feb 25 04:19:30 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

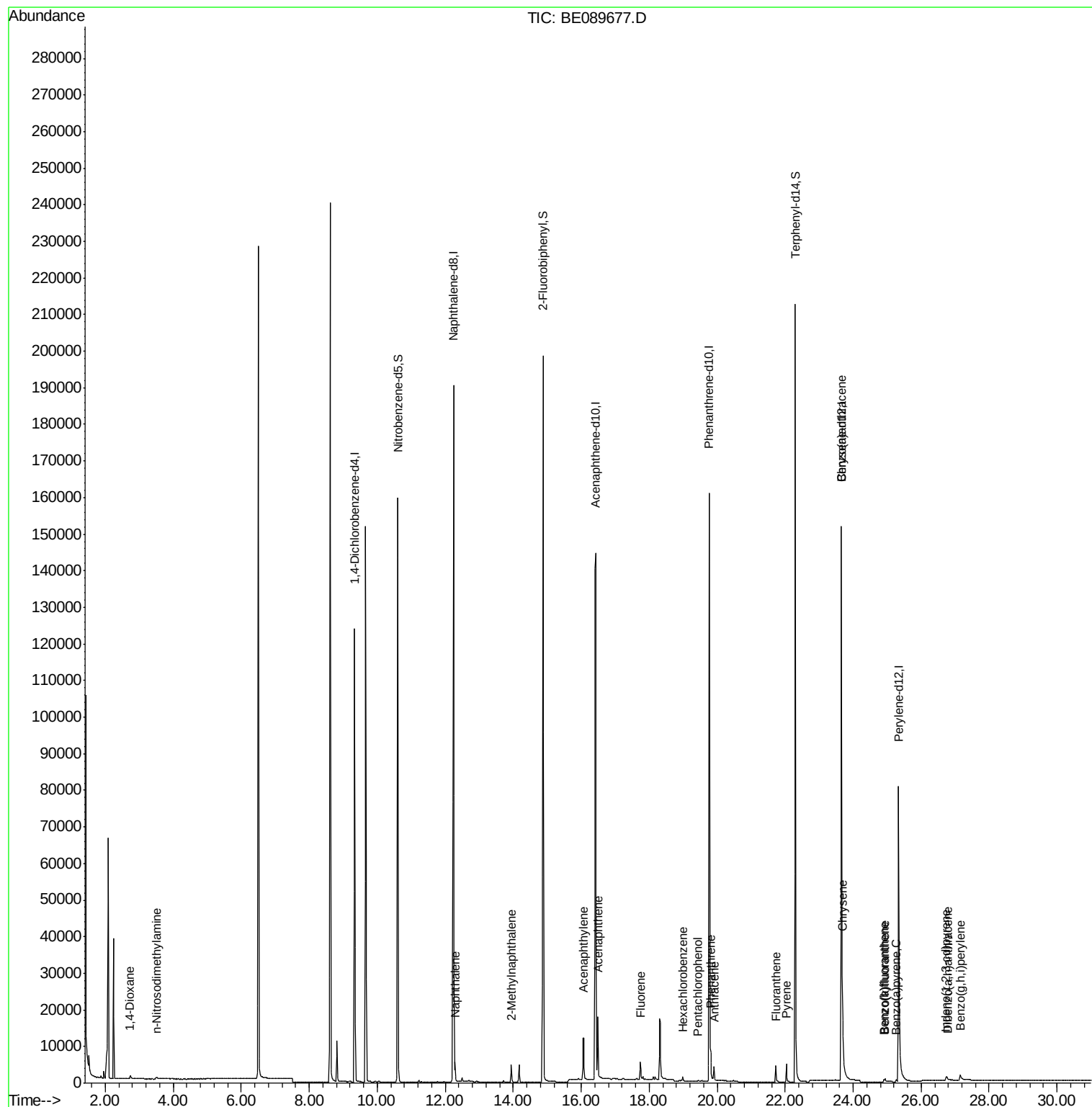
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	54805	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	227972	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	99946	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	179253	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134141	5.00	ng	0.00
25) Perylene-d12	25.34	264	98563	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	112499	8.32	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	192312	8.65	ng	0.00
21) Terphenyl-d14	22.30	244	170906	10.86	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	874	0.13	ng	# 81
3) n-Nitrosodimethylamine	3.50	42	894	0.17	ng	# 89
6) Naphthalene	12.29	128	6606	0.15	ng	98
7) 2-Methylnaphthalene	13.95	142	3394	0.14	ng	99
10) Acenaphthylene	16.06	152	17645	0.12	ng	99
11) Acenaphthene	16.49	154	3269	0.14	ng	97
12) Fluorene	17.74	166	3522	0.14	ng	100
14) Hexachlorobenzene	18.99	284	696	0.15	ng	98
15) Pentachlorophenol	19.44	266	35	0.29	ng	# 74
16) Phenanthrene	19.81	178	5658	0.15	ng	97
17) Anthracene	19.91	178	4173	0.13	ng	99
18) Fluoranthene	21.72	202	3892	0.12	ng	98
20) Pyrene	22.04	202	4242	0.13	ng	99
22) Benzo(a)anthracene	23.65	228	12269	0.14	ng	95
23) Chrysene	23.68	228	19285	0.16	ng	96
24) Indeno(1,2,3-cd)pyrene	26.73	276	2469	0.29	ng	# 52
26) Benzo(b)fluoranthene	24.91	252	625	0.36	ng	# 89
27) Benzo(k)fluoranthene	24.94	252	1829	0.21	ng	# 88
28) Benzo(a)pyrene	25.27	252	716	0.13	ng	# 86
29) Dibenzo(a,h)anthracene	26.77	278	431	0.34	ng	# 81
30) Benzo(g,h,i)perylene	27.15	276	3912	0.38	ng	# 86

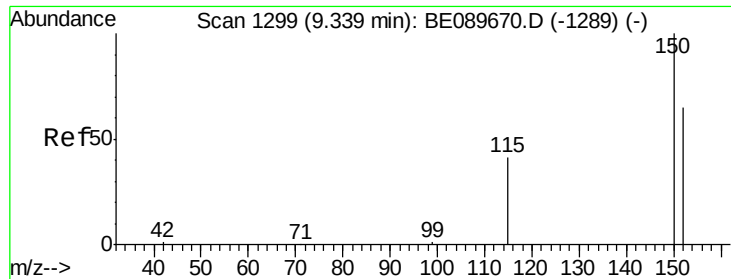
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

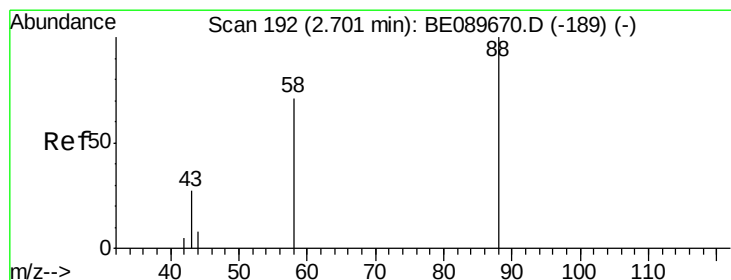
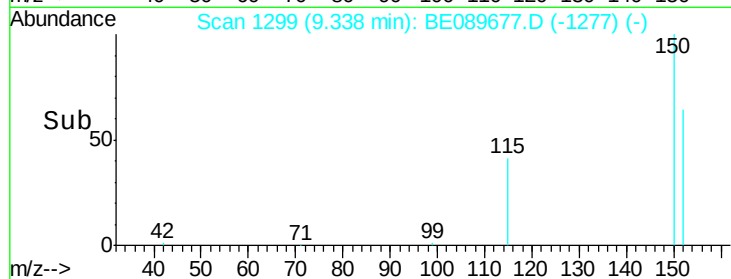
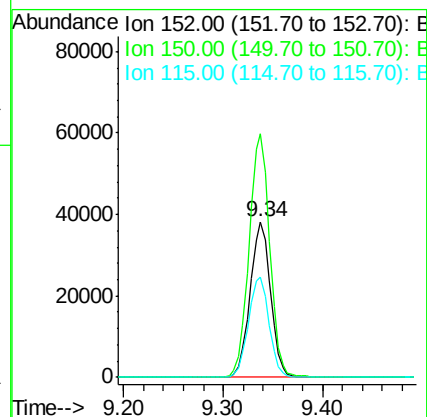
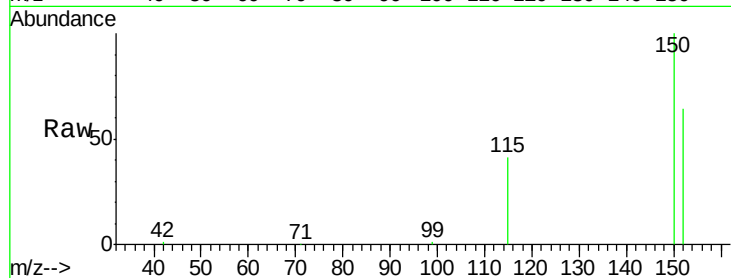
Tgt Ion:152 Resp: 54805

Ion Ratio Lower Upper

152 100

150 156.3 123.4 185.0

115 64.6 50.8 76.2



#2

1,4-Dioxane

Concen: 0.13 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.03 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

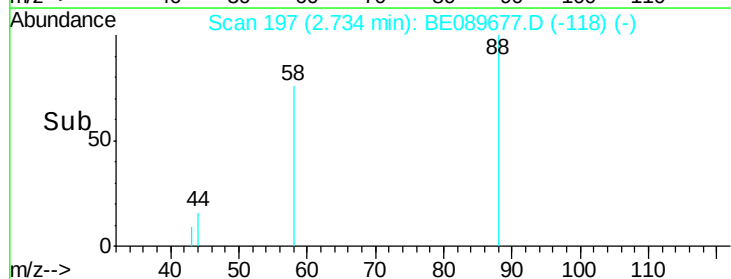
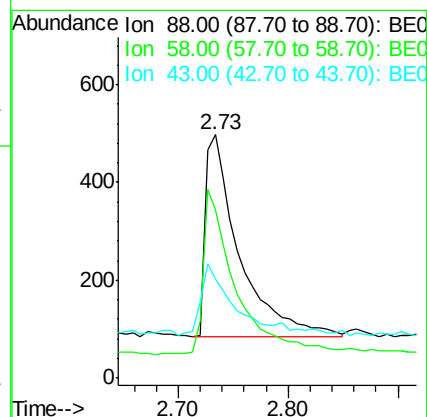
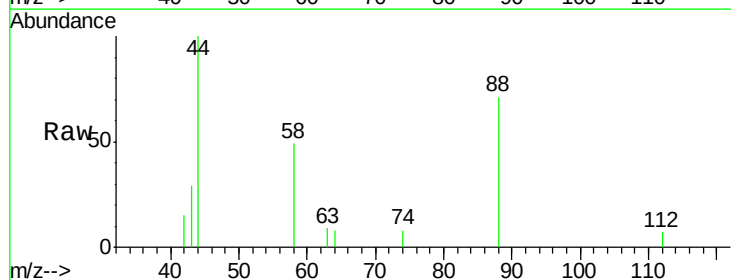
Tgt Ion: 88 Resp: 874

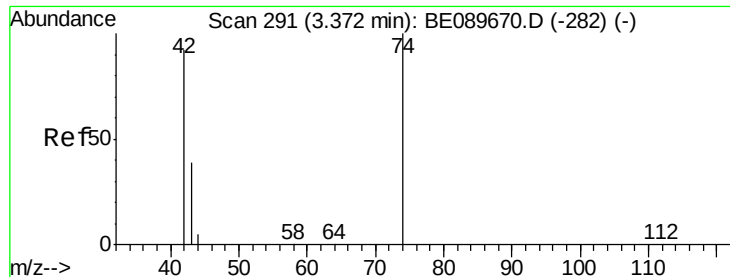
Ion Ratio Lower Upper

88 100

58 79.7 62.4 93.6

43 0.0 26.6 40.0#





#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.50 min Scan# 310

Delta R.T. 0.13 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

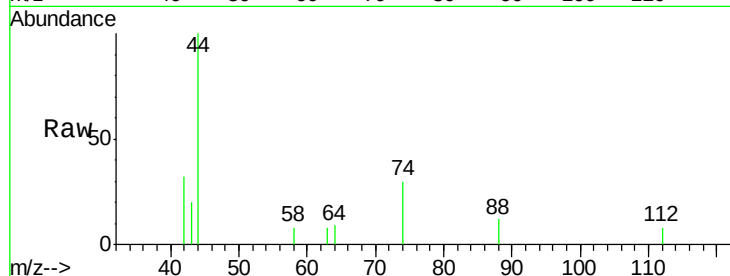
Tgt Ion: 42 Resp: 894

Ion Ratio Lower Upper

42 100

74 125.5 91.1 136.7

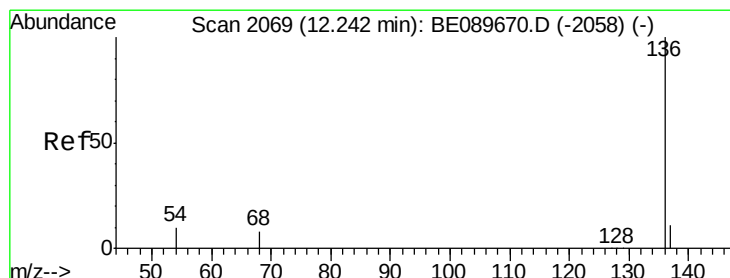
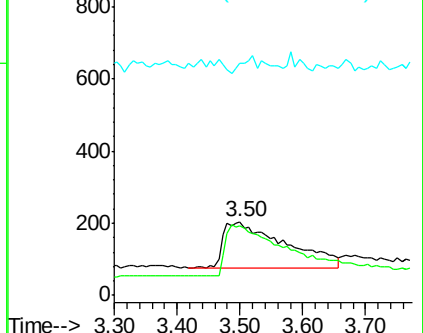
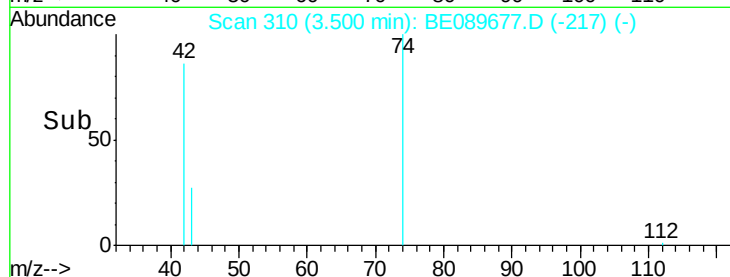
44 0.0 4.7 7.1#



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: 12.24 min Scan# 2069

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

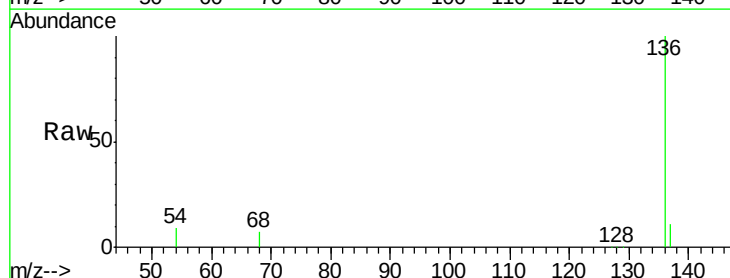
Tgt Ion: 136 Resp: 227972

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

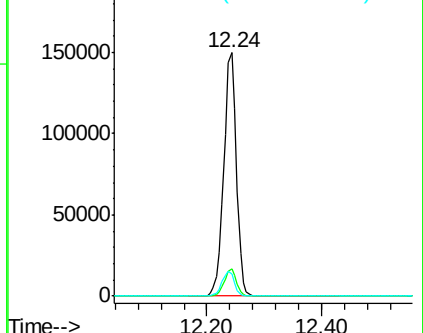
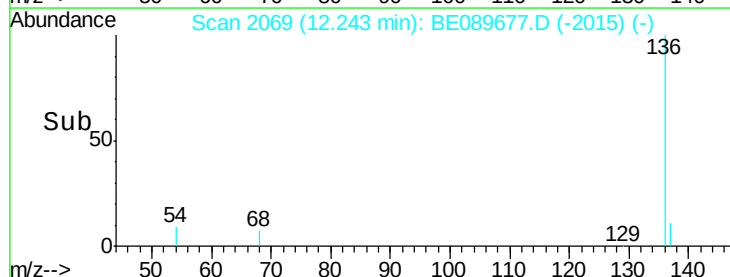
54 8.9 7.8 11.8

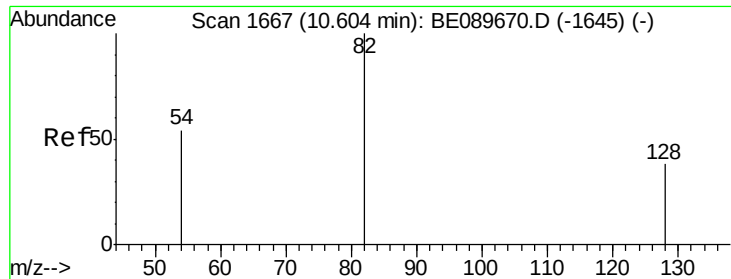


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 8.32 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

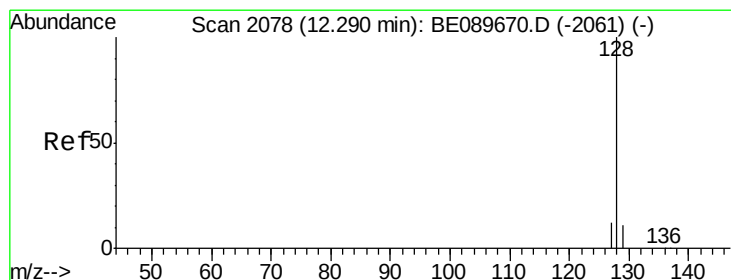
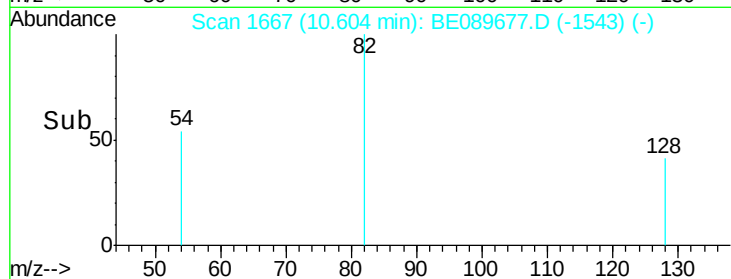
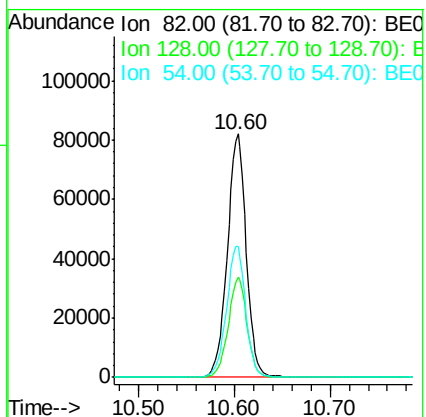
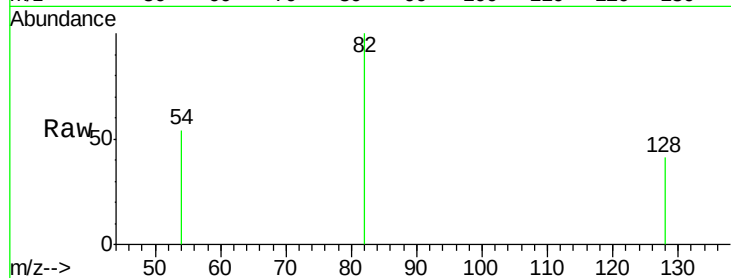
Tgt Ion: 82 Resp: 112499

Ion Ratio Lower Upper

82 100

128 41.0 30.6 46.0

54 54.0 43.6 65.4



#6

Naphthalene

Concen: 0.15 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

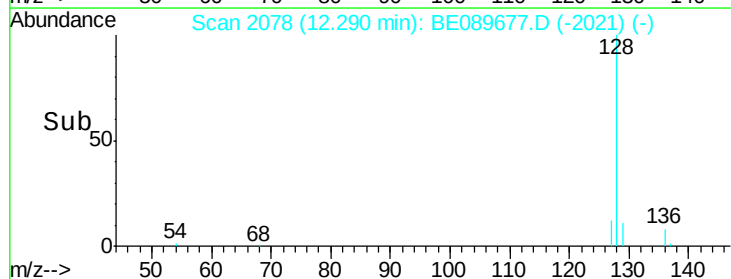
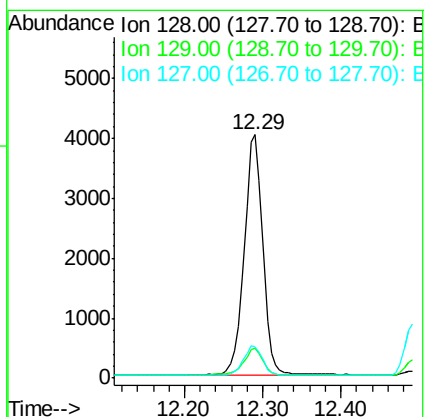
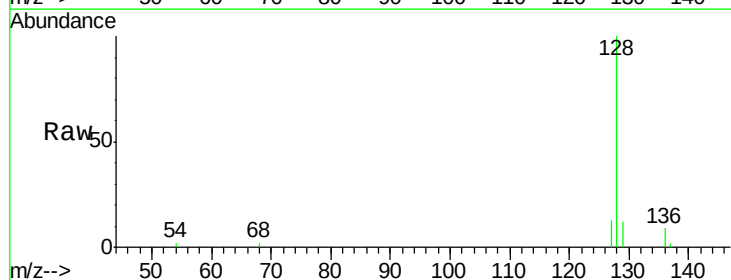
Tgt Ion: 128 Resp: 6606

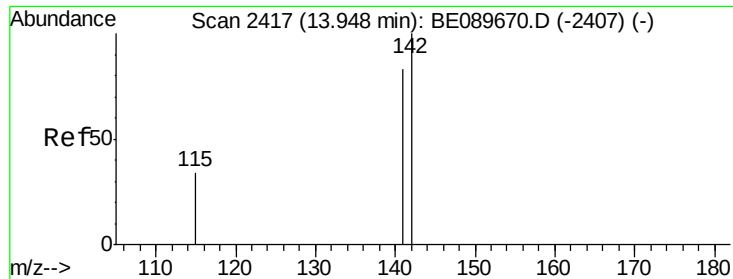
Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

127 13.0 9.7 14.5





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

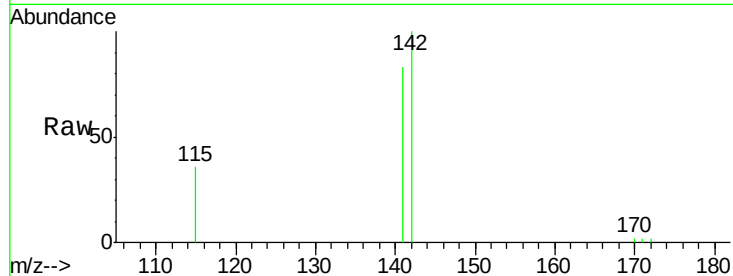
Tgt Ion:142 Resp: 3394

Ion Ratio Lower Upper

142 100

141 82.5 66.0 99.0

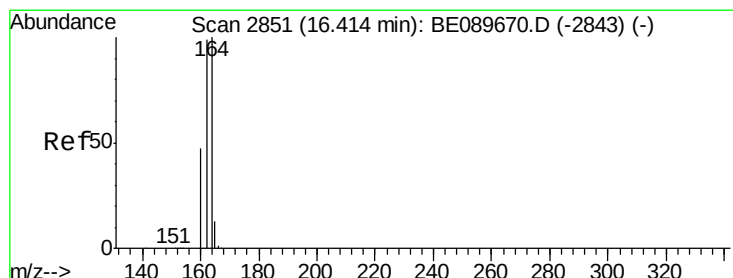
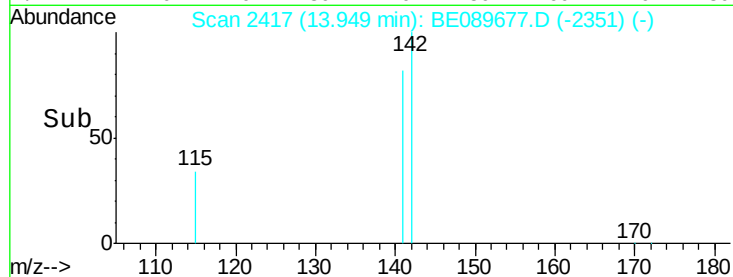
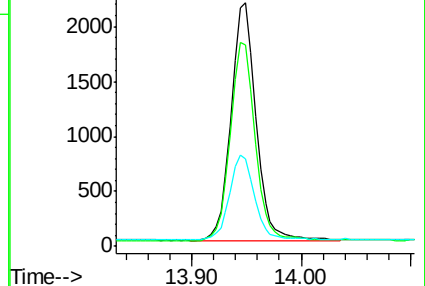
115 35.9 27.4 41.0



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: 16.42 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

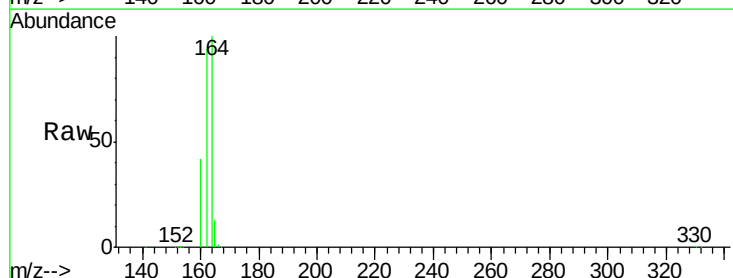
Tgt Ion:164 Resp: 99946

Ion Ratio Lower Upper

164 100

162 93.6 79.4 119.2

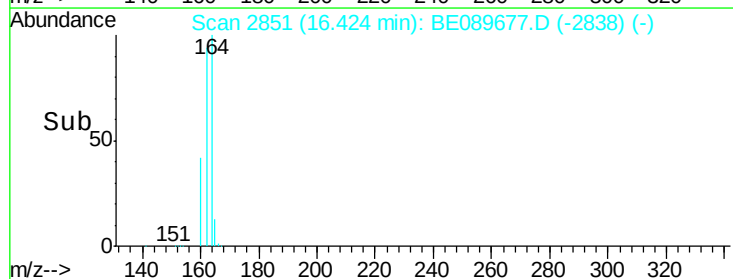
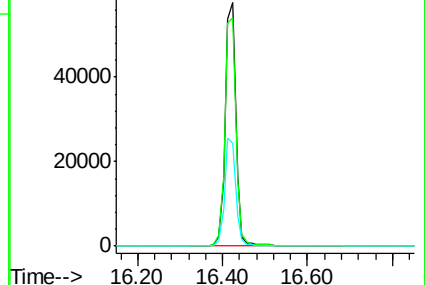
160 42.2 37.6 56.4

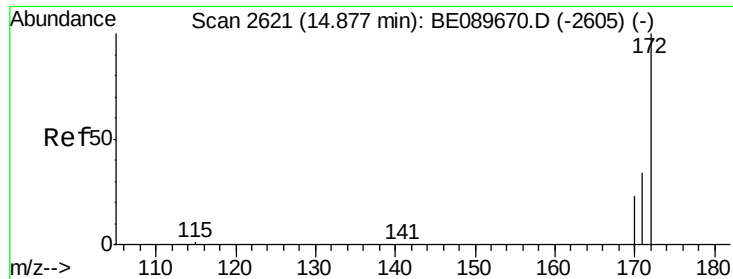


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.65 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

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ClientSampleId :

MDL-03-S

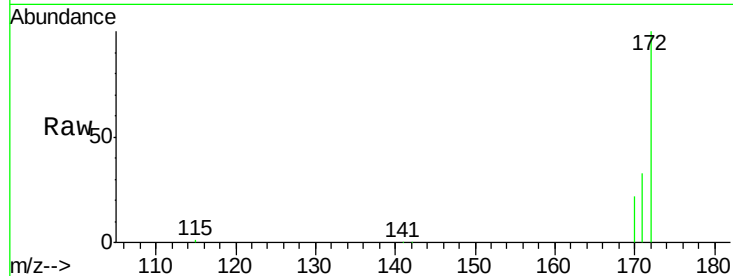
Tgt Ion:172 Resp: 192312

Ion Ratio Lower Upper

172 100

171 32.8 27.3 40.9

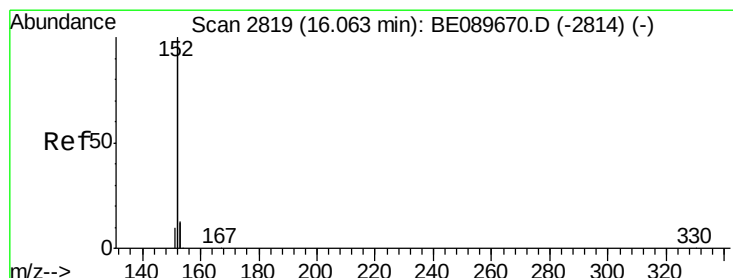
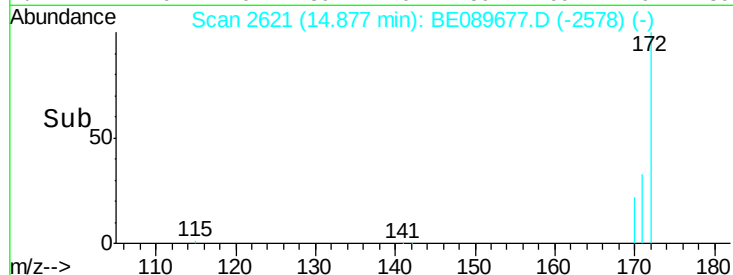
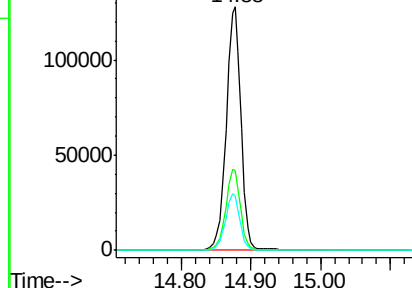
170 22.0 18.5 27.7



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: 0.12 ng

RT: 16.06 min Scan# 2818

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

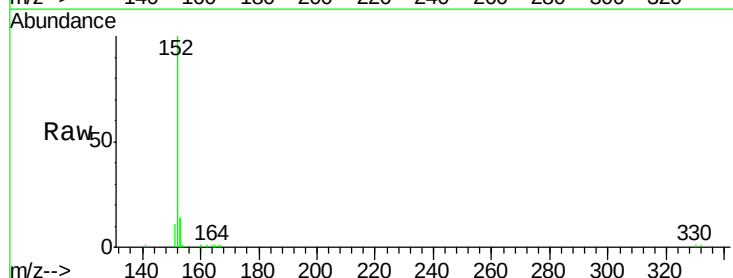
Tgt Ion:152 Resp: 17645

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.6

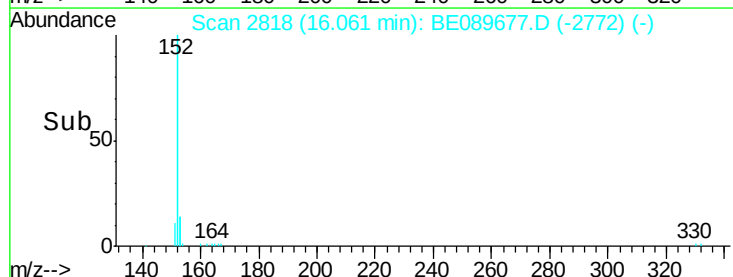
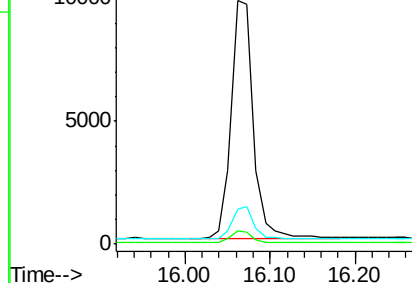
153 13.6 10.4 15.6

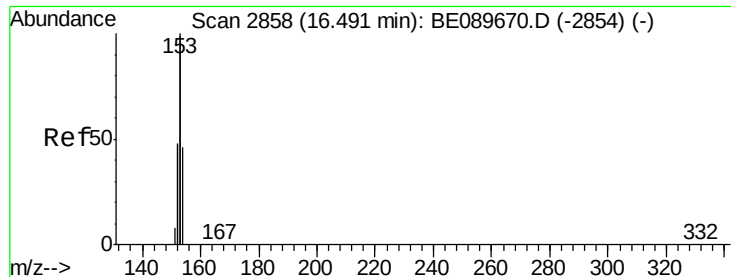


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.14 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

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ClientSampleId :

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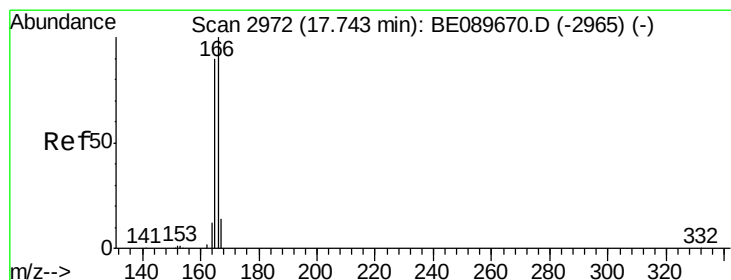
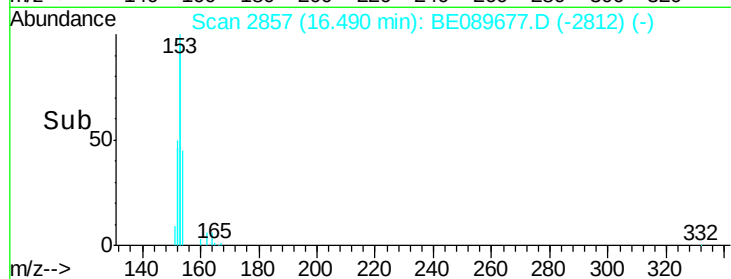
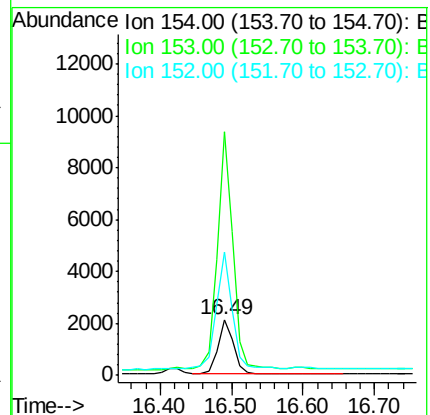
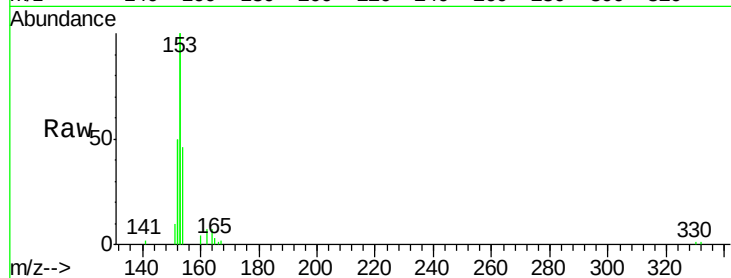
Tgt Ion:154 Resp: 3269

Ion Ratio Lower Upper

154 100

153 435.9 345.8 518.8

152 221.3 168.6 252.8



#12

Fluorene

Concen: 0.14 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

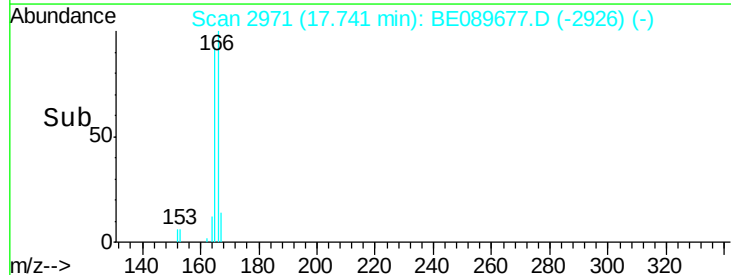
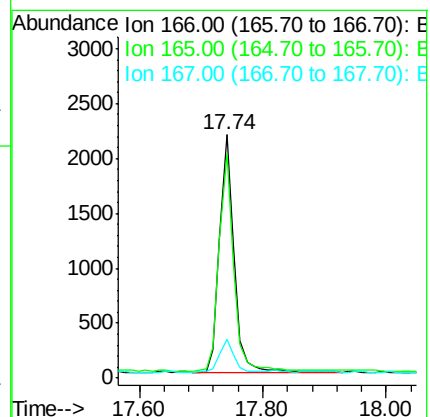
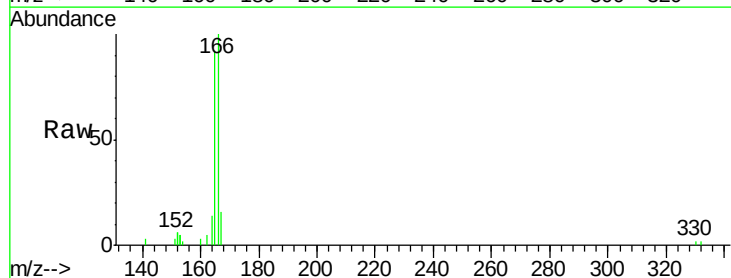
Tgt Ion:166 Resp: 3522

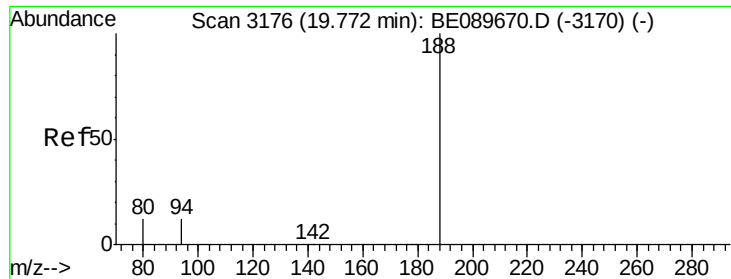
Ion Ratio Lower Upper

166 100

165 91.5 73.6 110.4

167 13.3 10.6 16.0

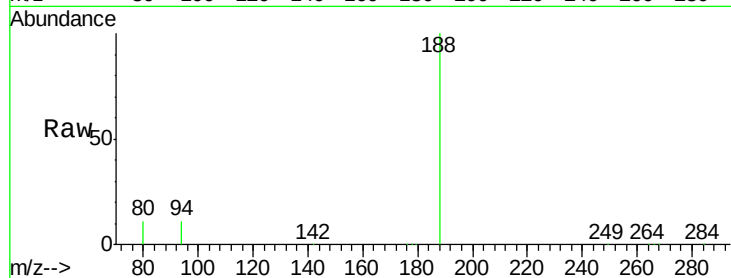




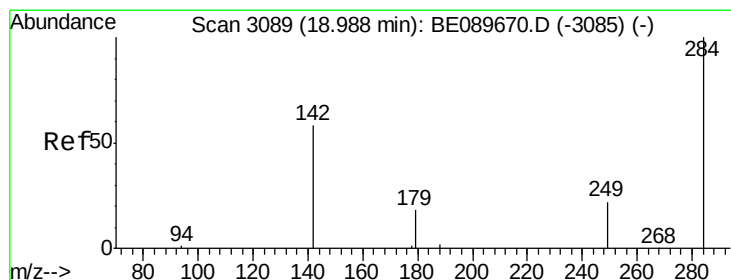
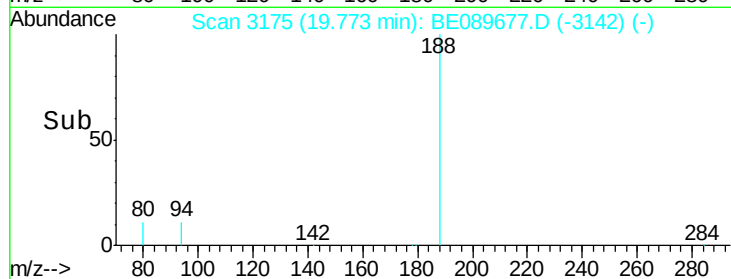
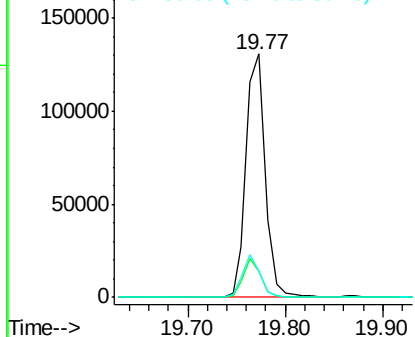
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Instrument :
BNA_E
ClientSampleId :
MDL-03-S

Tgt Ion:188 Resp: 179253
Ion Ratio Lower Upper
188 100
94 10.8 9.4 14.2
80 10.8 9.5 14.3

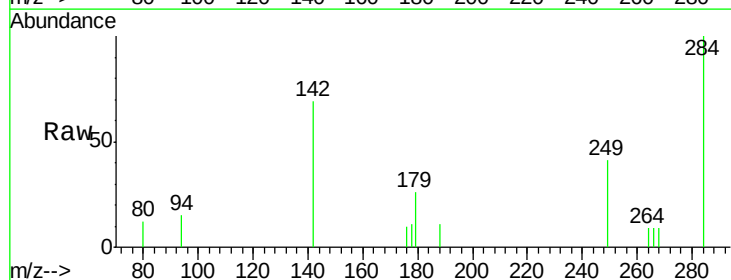


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

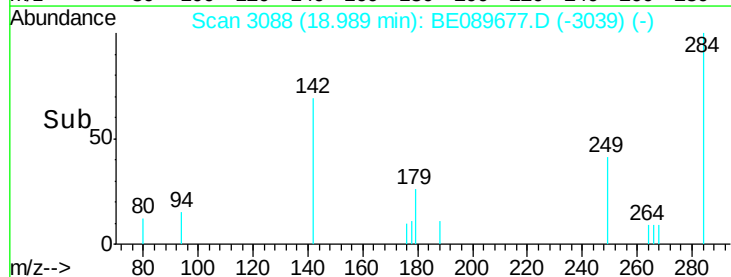
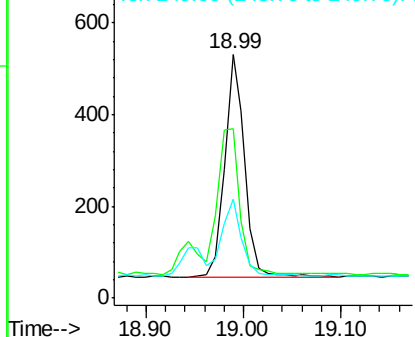


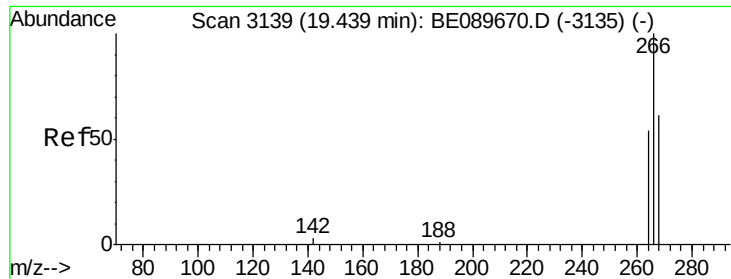
#14
Hexachlorobenzene
Concen: 0.15 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Tgt Ion:284 Resp: 696
Ion Ratio Lower Upper
284 100
142 71.0 55.4 83.2
249 33.2 27.2 40.8



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: 19.44 min Scan# 3138

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

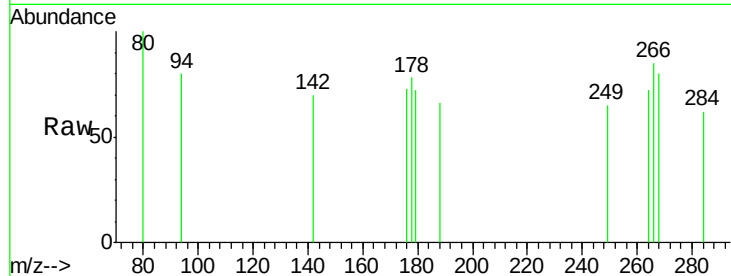
Tgt Ion:266 Resp: 35

Ion Ratio Lower Upper

266 100

268 93.7 56.3 84.5#

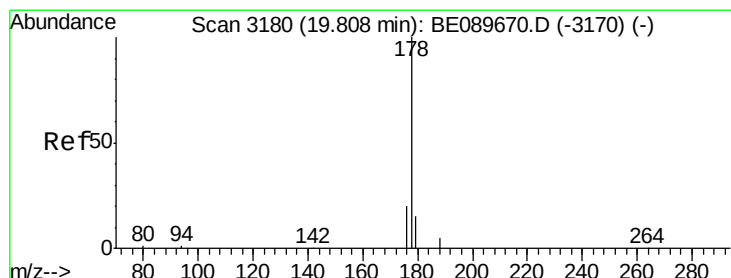
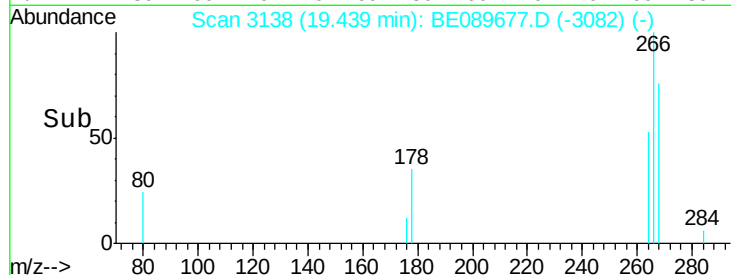
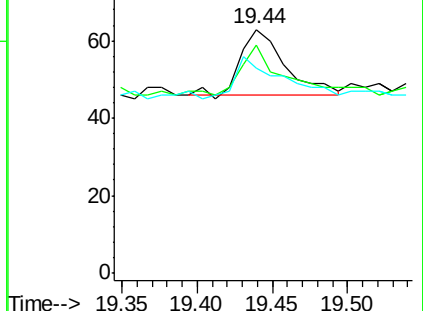
264 84.1 51.8 77.8#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 0.15 ng

RT: 19.81 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

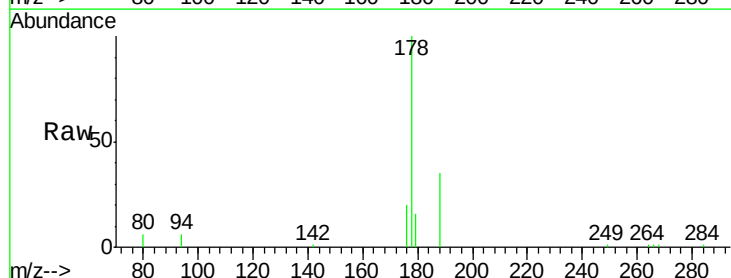
Tgt Ion:178 Resp: 5658

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

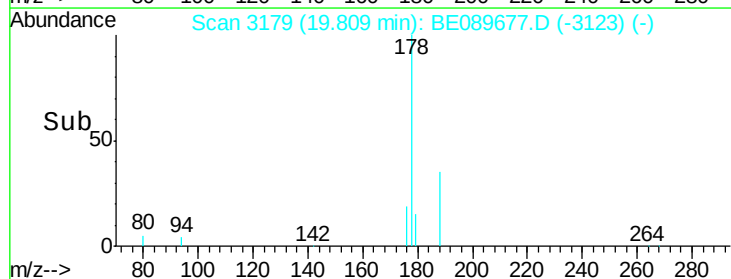
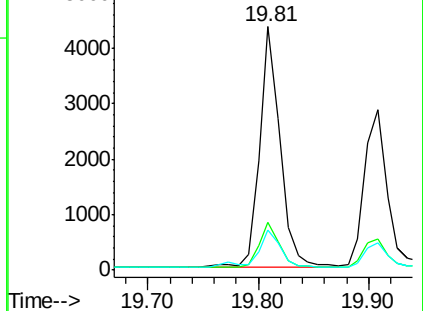
179 17.4 12.5 18.7

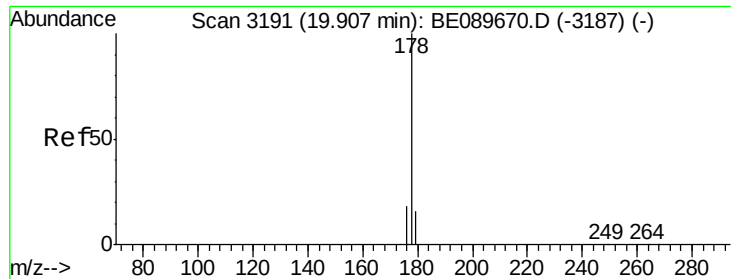


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.13 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

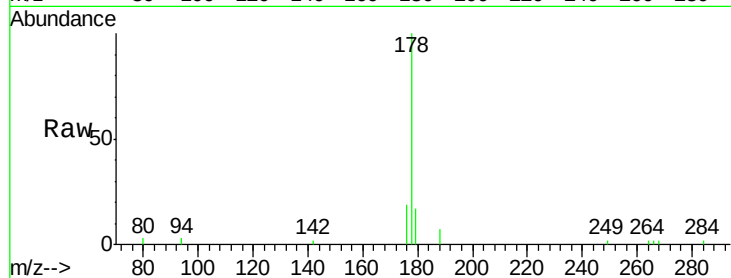
Tgt Ion:178 Resp: 4173

Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

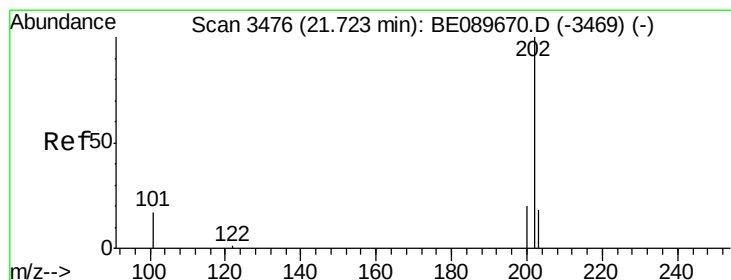
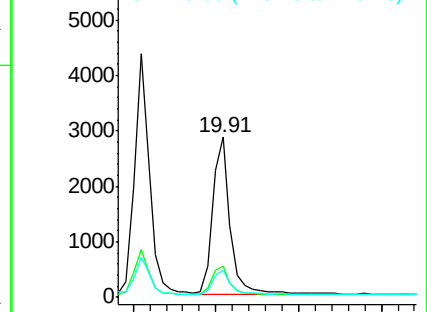
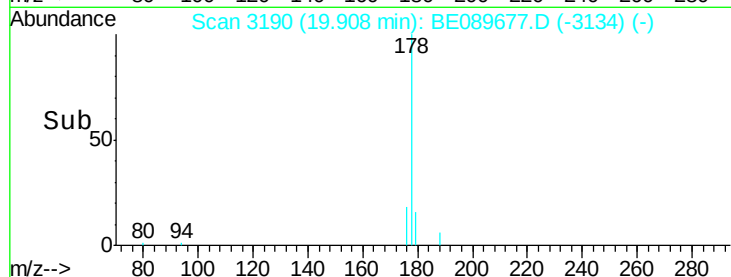
179 14.7 12.2 18.2



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



#18

Fluoranthene

Concen: 0.12 ng

RT: 21.72 min Scan# 3474

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

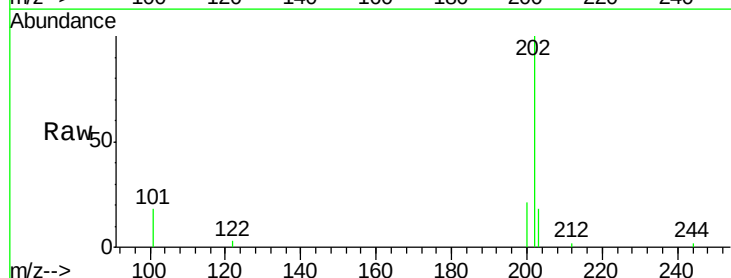
Tgt Ion:202 Resp: 3892

Ion Ratio Lower Upper

202 100

101 17.5 14.9 22.3

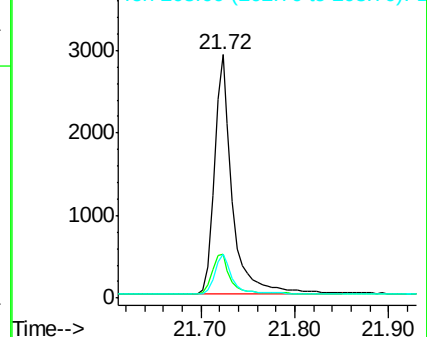
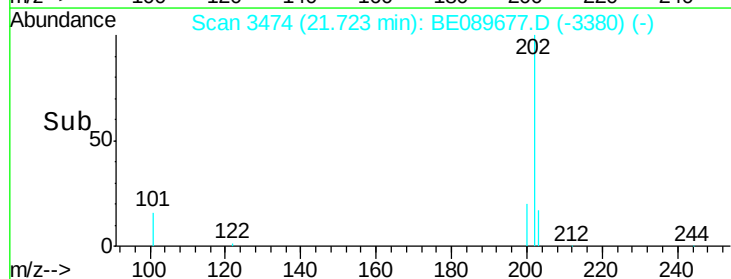
203 16.9 13.8 20.6

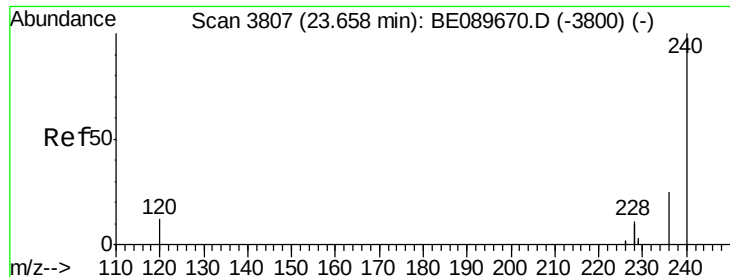


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

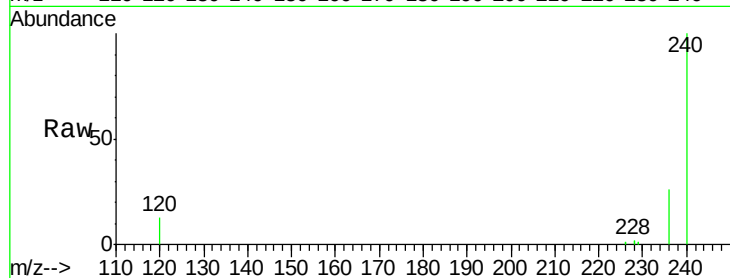
Tgt Ion:240 Resp: 134141

Ion Ratio Lower Upper

240 100

120 13.1 9.4 14.0

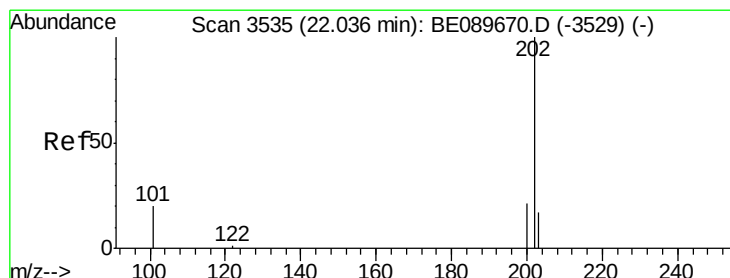
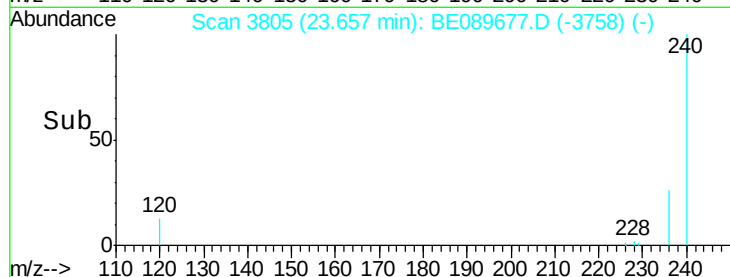
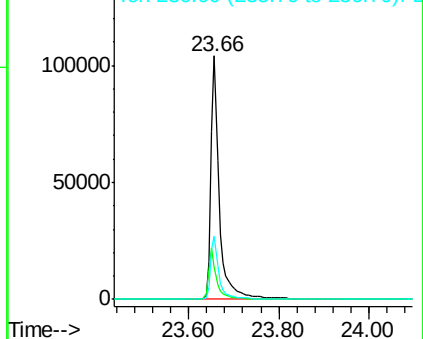
236 25.8 19.9 29.9



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



#20

Pyrene

Concen: 0.13 ng

RT: 22.04 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

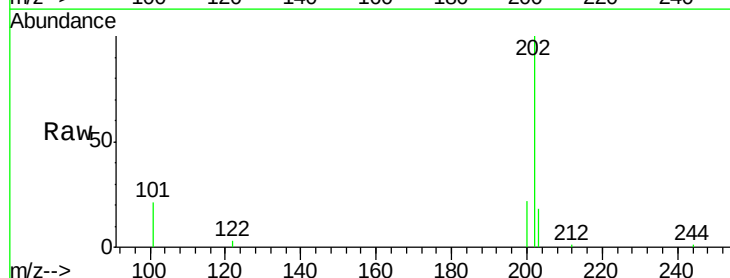
Tgt Ion:202 Resp: 4242

Ion Ratio Lower Upper

202 100

200 20.1 16.4 24.6

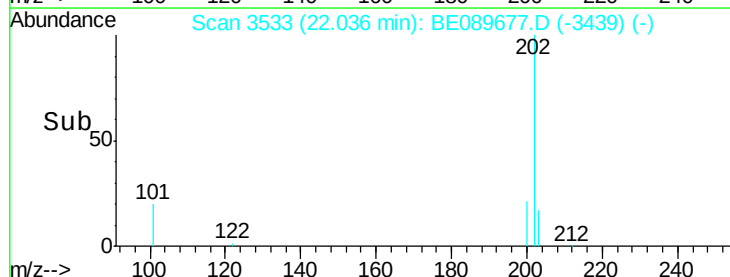
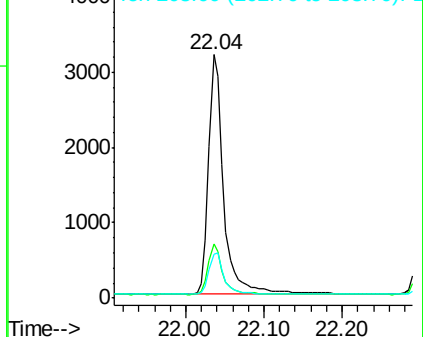
203 17.7 13.9 20.9

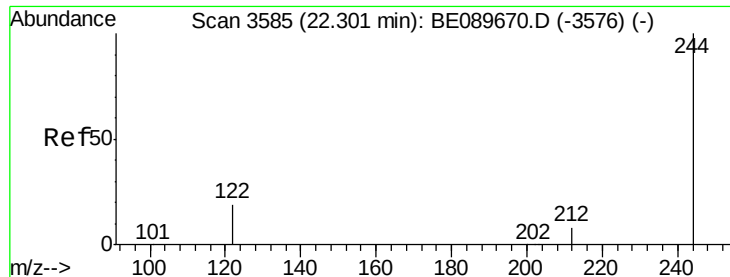


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 10.86 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

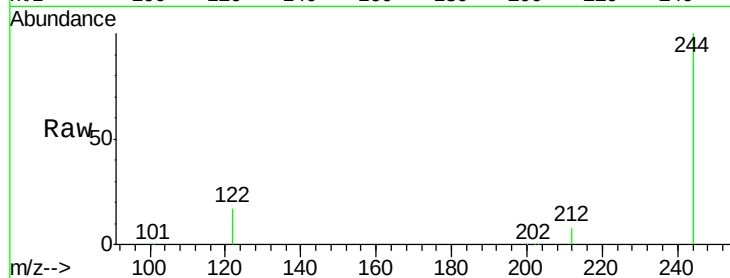
Tgt Ion:244 Resp: 170906

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

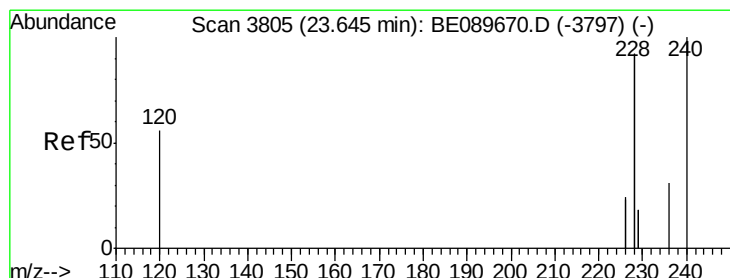
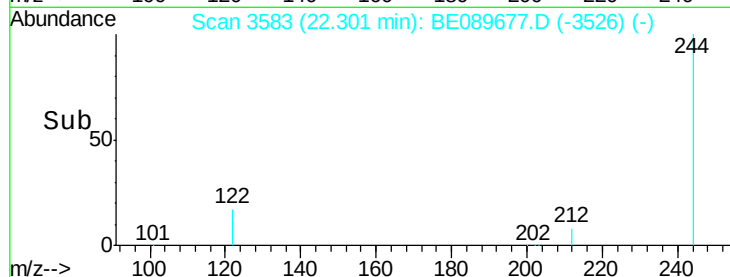
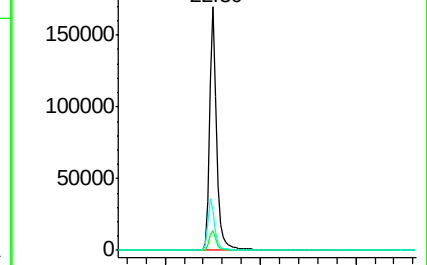
122 16.6 15.4 23.0



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



#22

Benzo(a)anthracene

Concen: 0.14 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

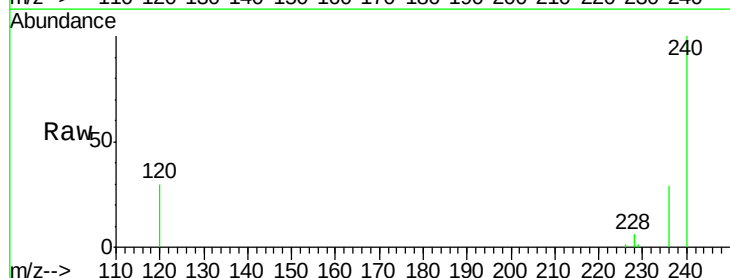
Tgt Ion:228 Resp: 12269

Ion Ratio Lower Upper

228 100

226 23.9 20.6 31.0

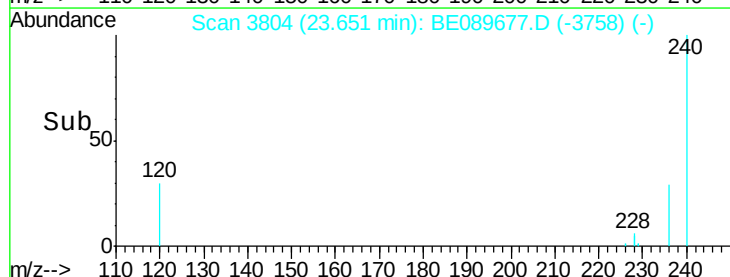
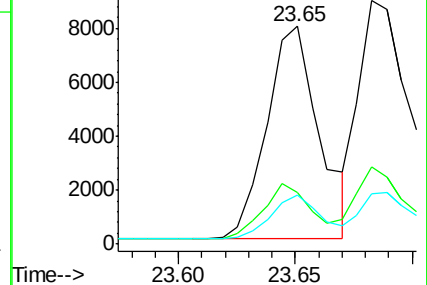
229 22.7 15.8 23.6

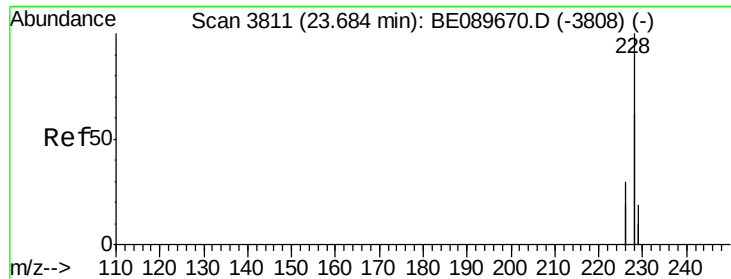


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.16 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

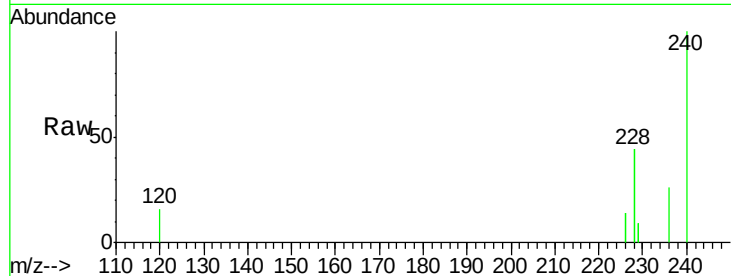
Tgt Ion:228 Resp: 19285

Ion Ratio Lower Upper

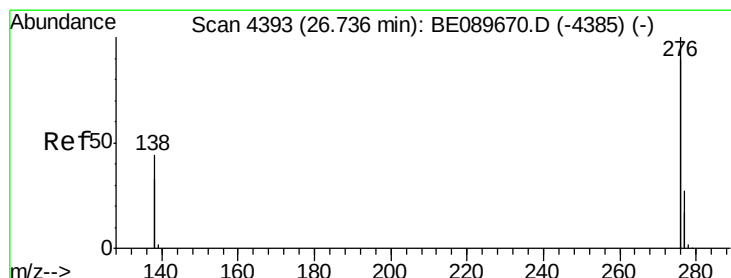
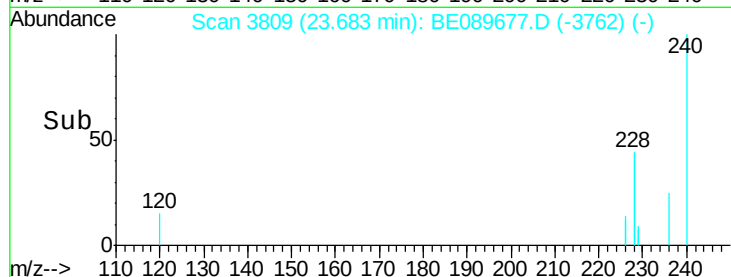
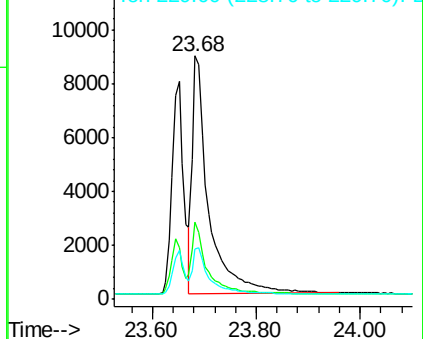
228 100

226 32.0 23.6 35.4

229 20.5 15.3 22.9



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: 0.29 ng

RT: 26.73 min Scan# 4391

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

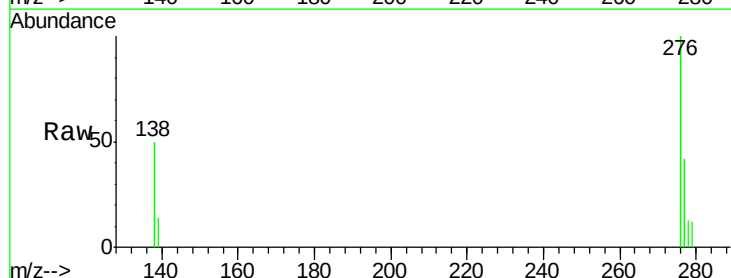
Tgt Ion:276 Resp: 2469

Ion Ratio Lower Upper

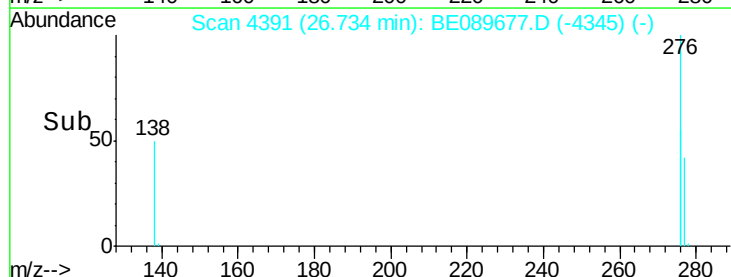
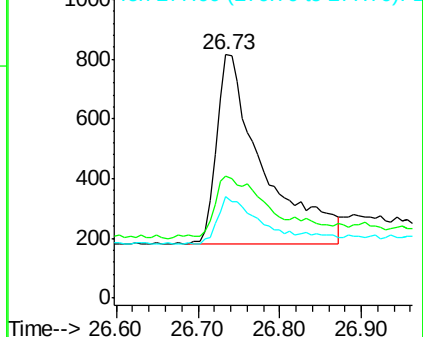
276 100

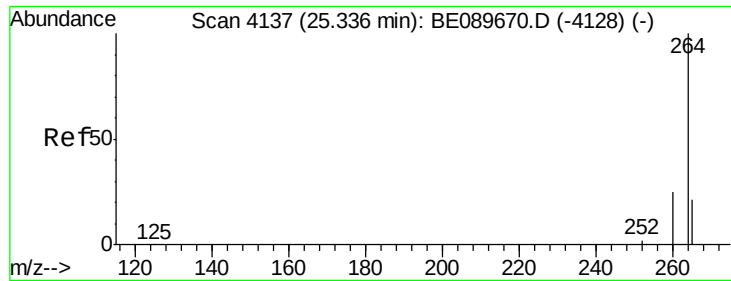
138 32.6 0.0 0.0#

277 22.7 5.2 7.8#



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

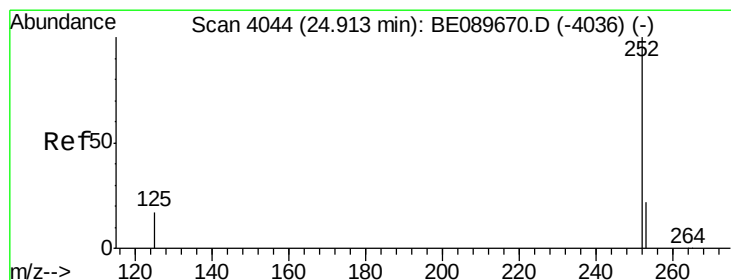
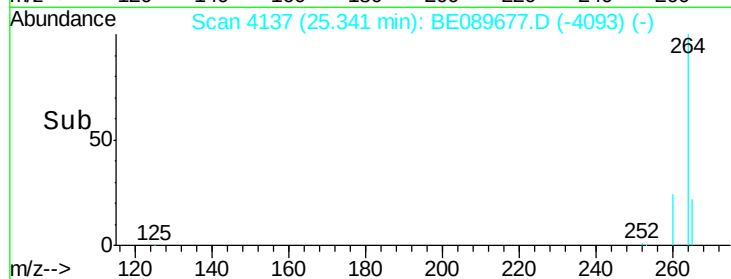
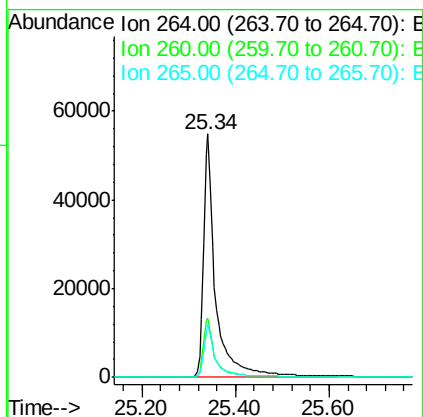
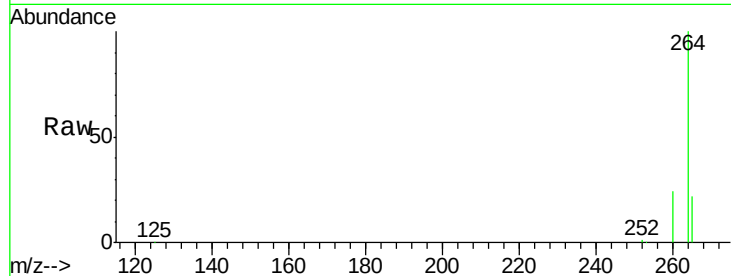




#25
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089677.D
 Acq: 24 Feb 2015 18:56

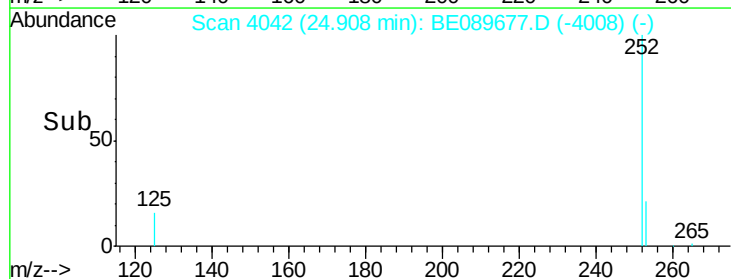
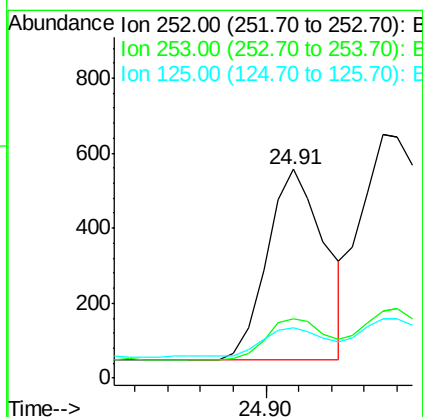
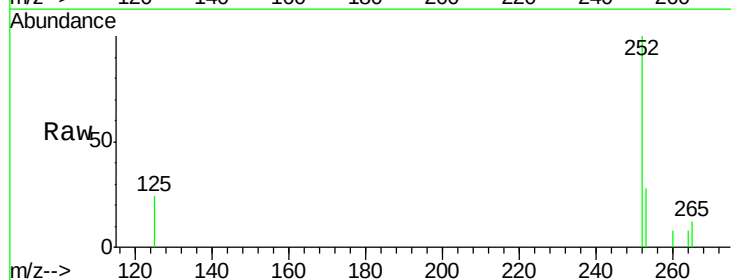
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

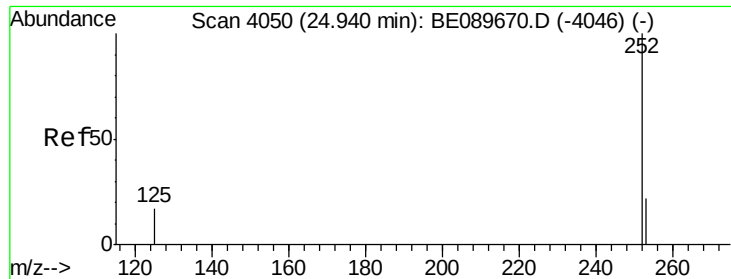
Tgt Ion: 264 Resp: 98563
 Ion Ratio Lower Upper
 264 100
 260 24.3 20.2 30.4
 265 21.7 17.0 25.4



#26
Benzo(b)fluoranthene
 Concen: 0.36 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. -0.00 min
 Lab File: BE089677.D
 Acq: 24 Feb 2015 18:56

Tgt Ion: 252 Resp: 625
 Ion Ratio Lower Upper
 252 100
 253 28.2 18.6 27.8#
 125 24.5 15.0 22.6#

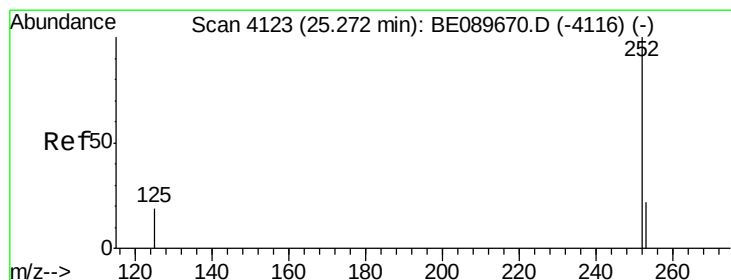
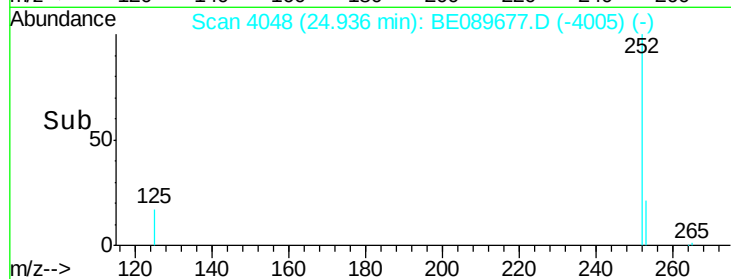
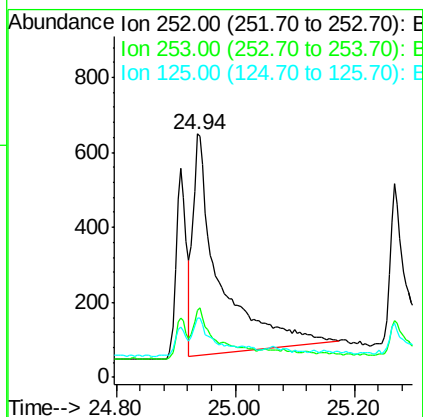
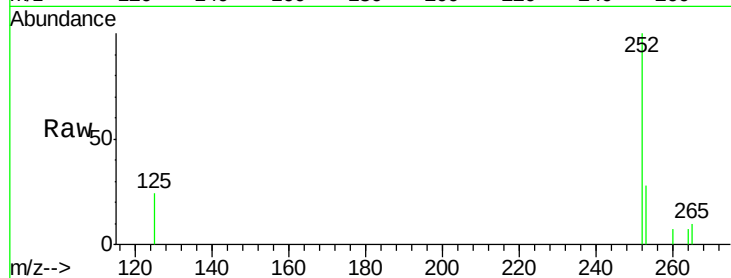




#27
Benzo(k)fluoranthene
Concen: 0.21 ng
RT: 24.94 min Scan# 4048
Delta R.T. -0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

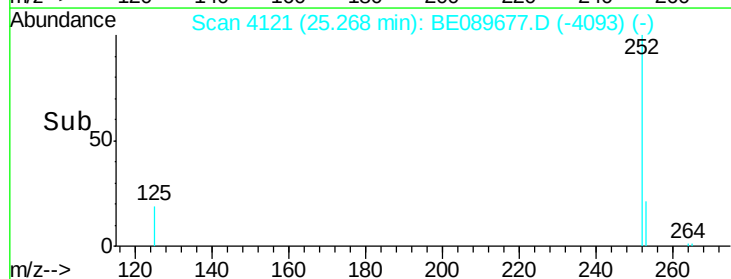
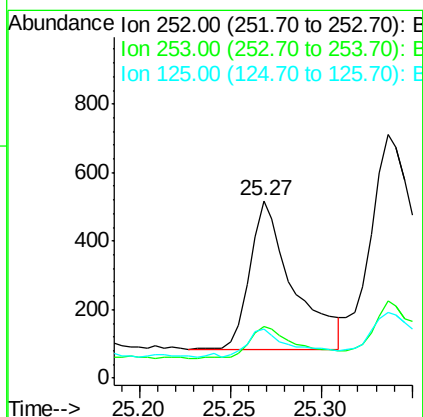
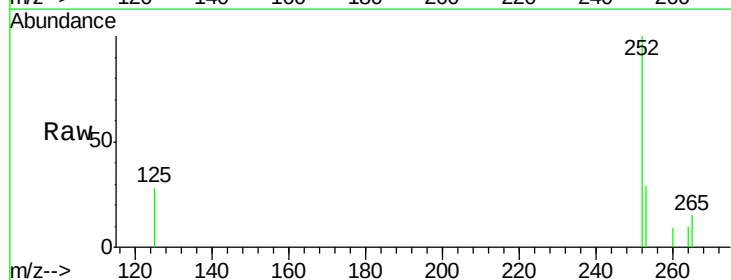
Instrument :
BNA_E
ClientSampleId :
MDL-03-S

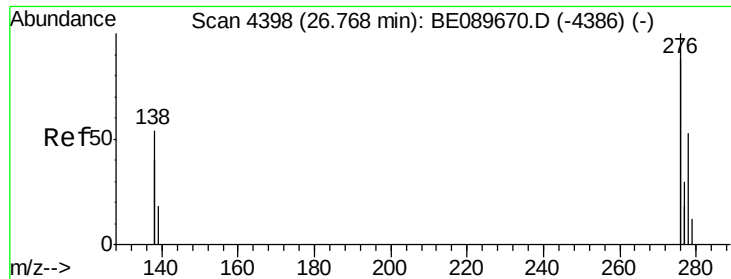
Tgt Ion: 252 Resp: 1829
Ion Ratio Lower Upper
252 100
253 27.6 18.0 27.0#
125 24.2 14.3 21.5#



#28
Benzo(a)pyrene
Concen: 0.13 ng
RT: 25.27 min Scan# 4121
Delta R.T. -0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Tgt Ion: 252 Resp: 716
Ion Ratio Lower Upper
252 100
253 29.4 18.8 28.2#
125 28.0 16.6 24.8#





#29

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.77 min Scan# 4397

Delta R.T. 0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

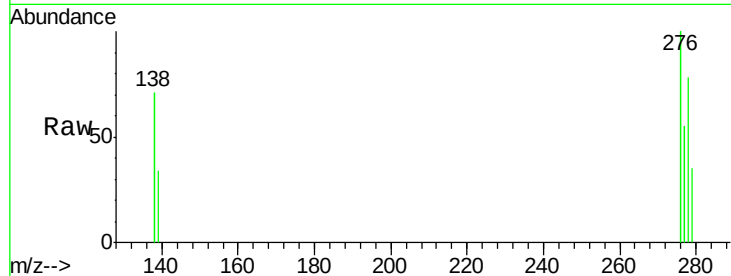
Tgt Ion: 278 Resp: 431

Ion Ratio Lower Upper

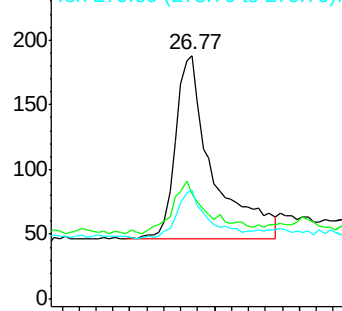
278 100

139 43.1 30.4 45.6

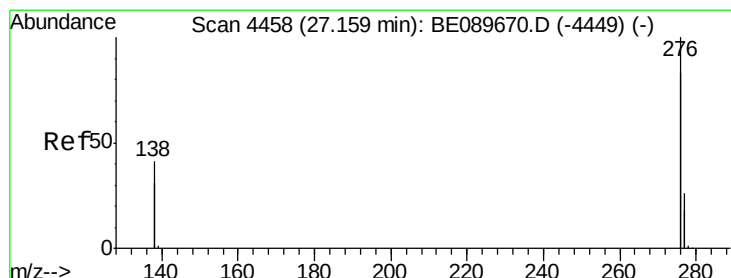
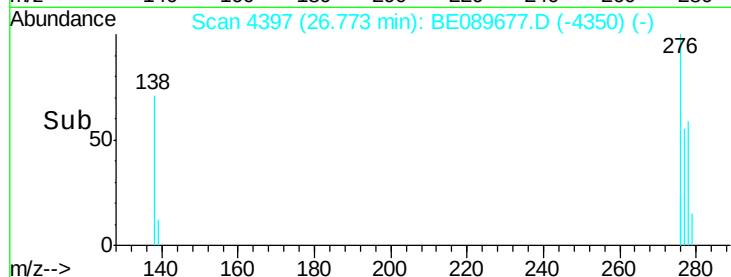
279 44.7 22.0 33.0#



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



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.38 ng

RT: 27.15 min Scan# 4455

Delta R.T. -0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

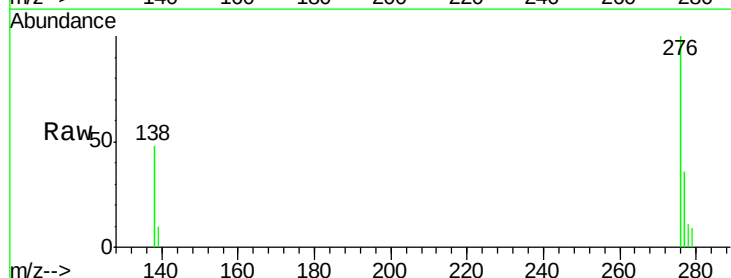
Tgt Ion: 276 Resp: 3912

Ion Ratio Lower Upper

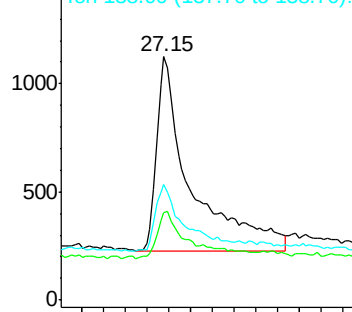
276 100

277 36.1 21.0 31.6#

138 47.6 33.0 49.4



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



Time-->

