

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089657.D
 Acq On : 24 Feb 2015 2:04
 Operator : TP/JJ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 04:07:58 2015

Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE022315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 24 03:46:57 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	46326	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	195622	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	87620	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	159594	5.00	ng	0.00
19) Chrysene-d12	23.65	240	123177	5.00	ng	0.00
25) Perylene-d12	25.34	264	96844	5.00	ng	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	10.60	82	104436	8.84	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	183868	9.32	ng	0.00
21) Terphenyl-d14	22.30	244	174215	9.90	ng	0.00

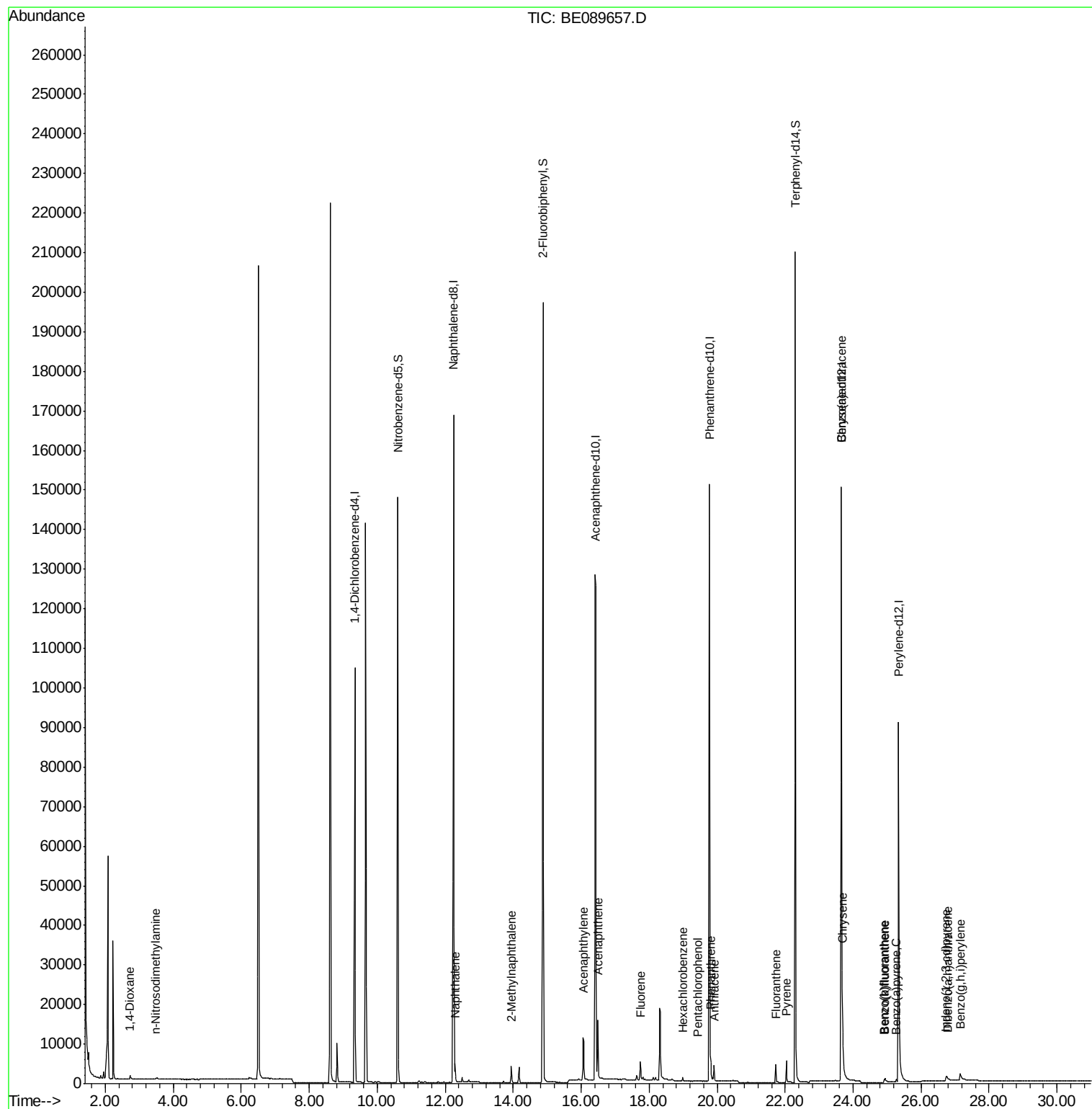
Target Compounds

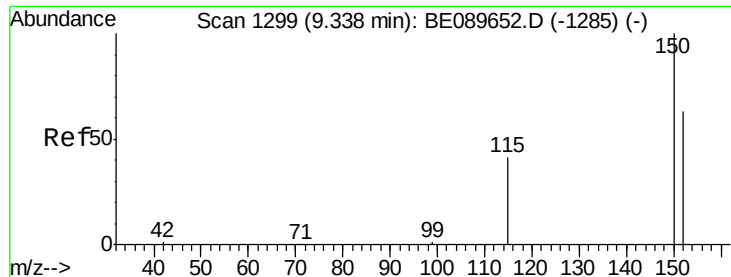
						Ovalue
2) 1,4-Dioxane	2.72	88	786	0.13	ng	# 80
3) n-Nitrosodimethylamine	3.49	42	703	0.14	ng	# 77
6) Naphthalene	12.29	128	5755	0.14	ng	97
7) 2-Methylnaphthalene	13.95	142	2893	0.13	ng	98
10) Acenaphthylene	16.06	152	15871	0.12	ng	100
11) Acenaphthene	16.49	154	2889	0.14	ng	99
12) Fluorene	17.74	166	3153	0.14	ng	98
14) Hexachlorobenzene	18.99	284	636	0.15	ng	98
15) Pentachlorophenol	19.44	266	54	0.26	ng	# 80
16) Phenanthrene	19.81	178	5118	0.15	ng	98
17) Anthracene	19.91	178	3923	0.13	ng	99
18) Fluoranthene	21.72	202	3791	0.13	ng	99
20) Pyrene	22.04	202	4095	0.13	ng	100
22) Benzo(a)anthracene	23.65	228	13022	0.15	ng	98
23) Chrysene	23.68	228	18448	0.16	ng	97
24) Indeno(1,2,3-cd)pyrene	26.74	276	3334	0.40	ng	# 89
26) Benzo(b)fluoranthene	24.91	252	833	0.42	ng	# 89
27) Benzo(k)fluoranthene	24.94	252	2230m	0.11	ng	
28) Benzo(a)pyrene	25.27	252	938	0.37	ng	# 84
29) Dibenzo(a,h)anthracene	26.77	278	477	0.39	ng	# 67
30) Benzo(g,h,i)perylene	27.15	276	4702	0.28	ng	# 84

(#) = 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: BE089657.D

Acq: 24 Feb 2015 2:04

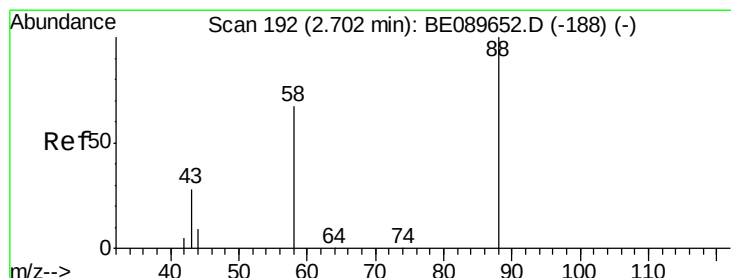
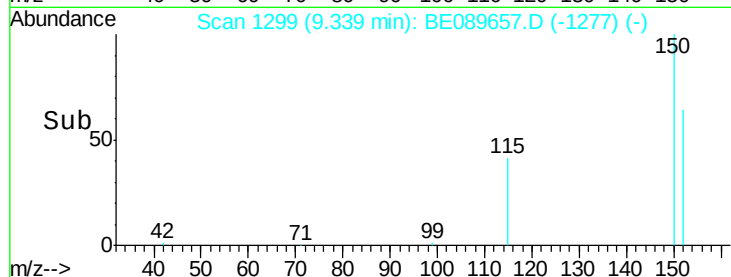
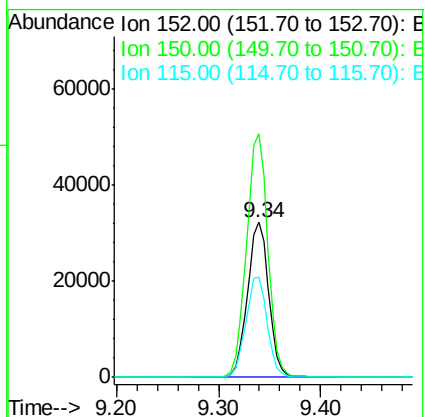
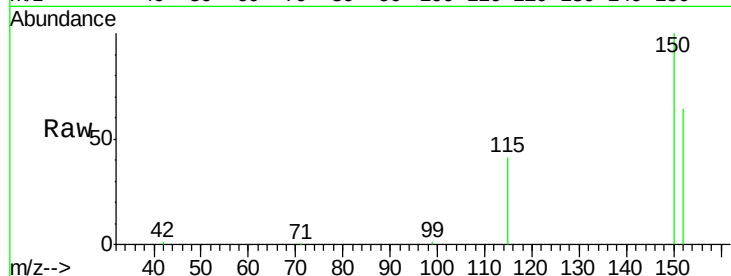
Tot Ion: 152 Resp: 46326

Ion Ratio Lower Upper

152 100

150 157.0 127.0 190.6

115 64.4 52.4 78.6



#2

1,4-Dioxane

Concen: 0.13 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

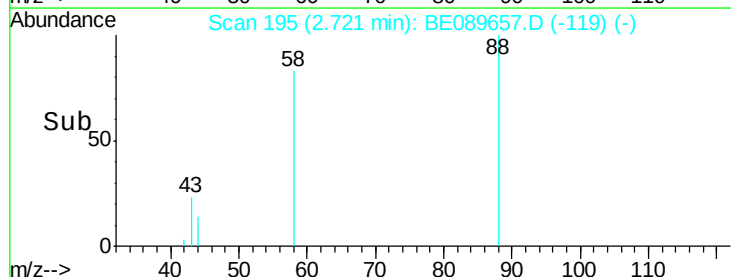
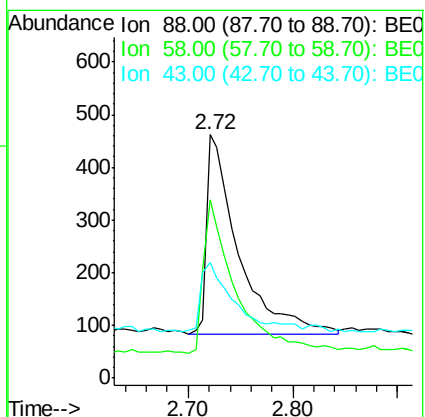
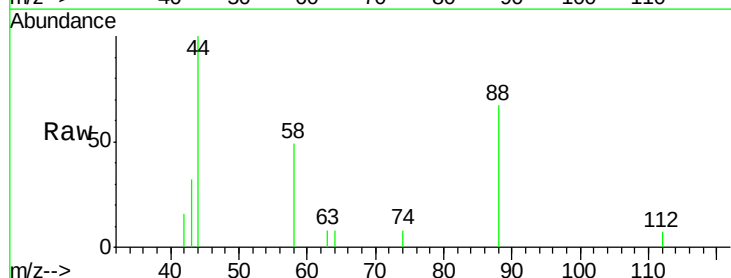
Tgt Ion: 88 Resp: 786

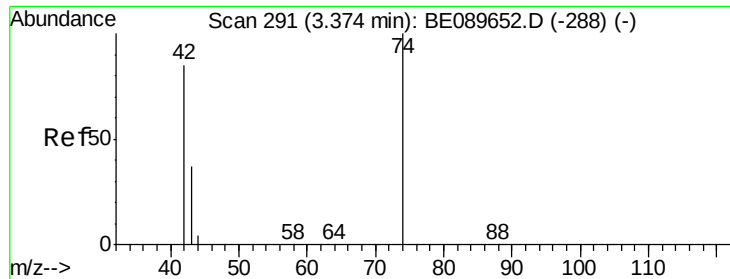
Ion Ratio Lower Upper

88 100

58 79.9 61.8 92.6

43 0.0 26.4 39.6

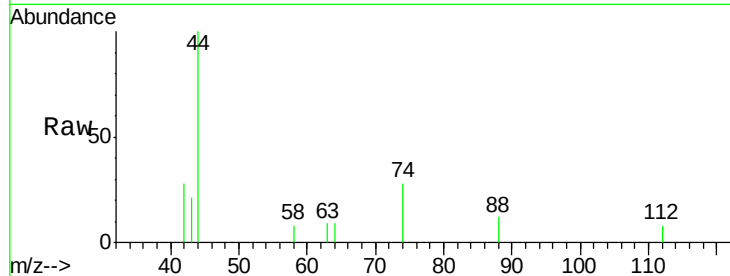




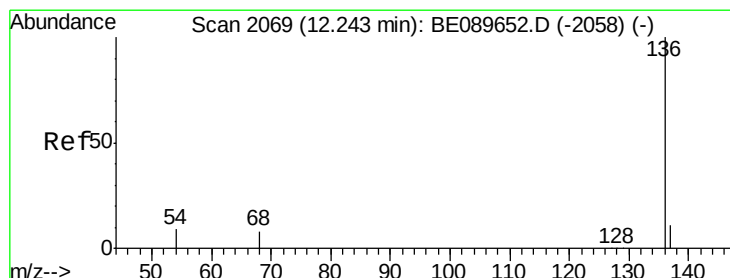
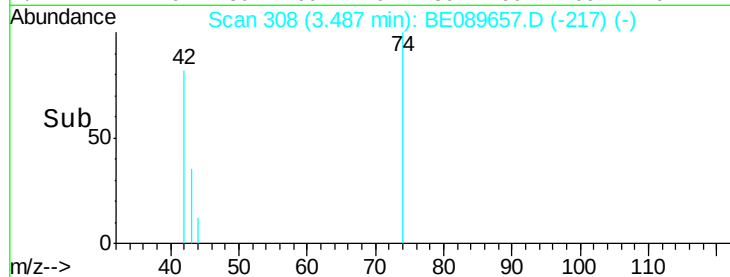
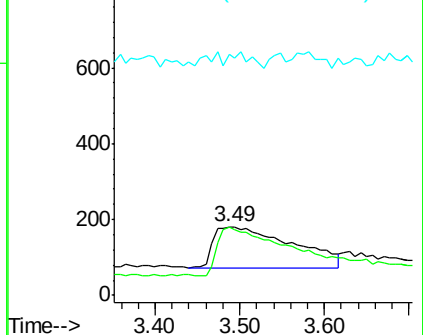
#3

n-Nitrosodimethylamine
Concen: 0.14 ng
RT: 3.49 min Scan# 308
Delta R.T. 0.11 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tot Ion: 42 Resp: 703
Ion Ratio Lower Upper
42 100
74 141.0 92.5 138.7#
44 9.5 4.9 7.3#



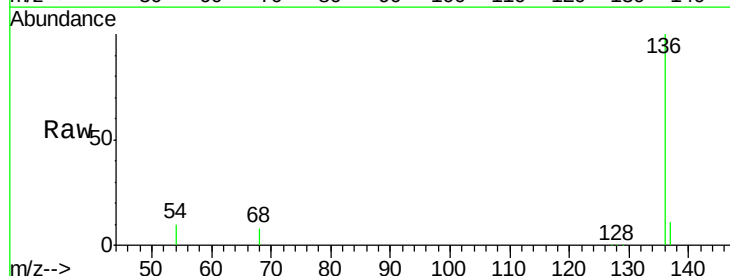
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



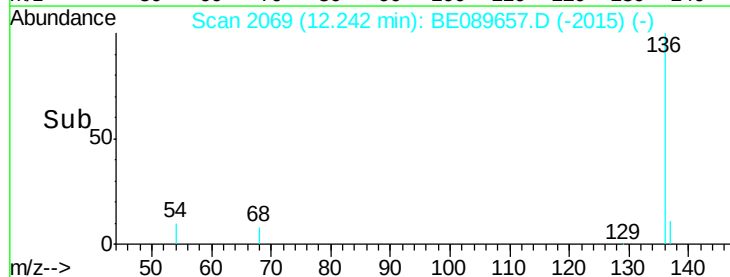
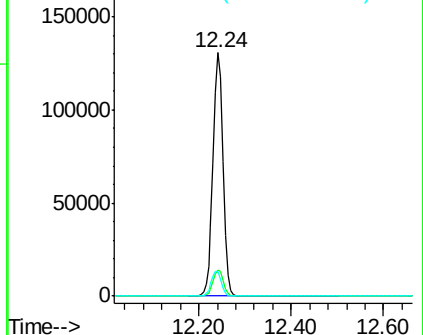
#4

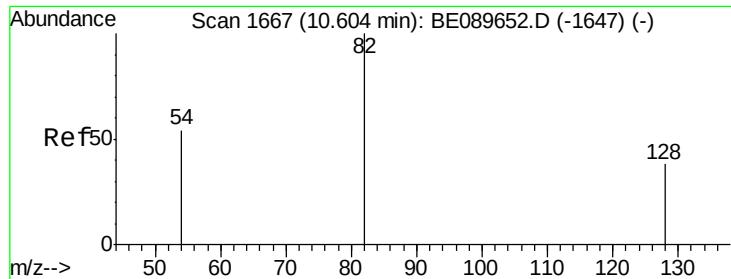
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. -0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tgt Ion: 136 Resp: 195622
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 10.0 7.5 11.3



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: 8.84 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

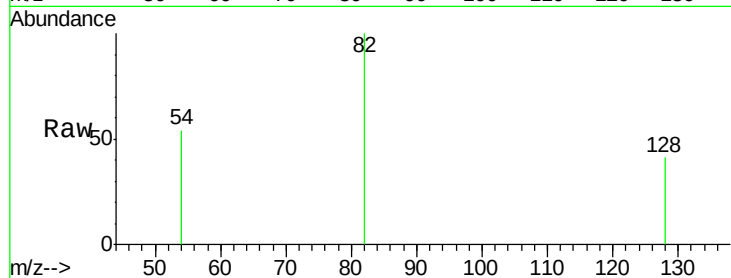
Tot Ion: 82 Resp: 104436

Ion	Ratio	Lower	Upper
82	100		
128	41.3	31.0	46.4
54	54.0	43.8	65.8

82 100

128 41.3 31.0 46.4

54 54.0 43.8 65.8

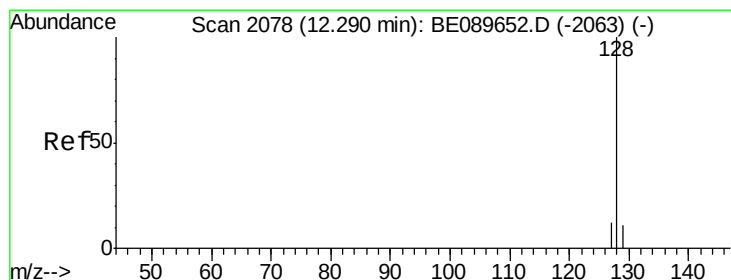
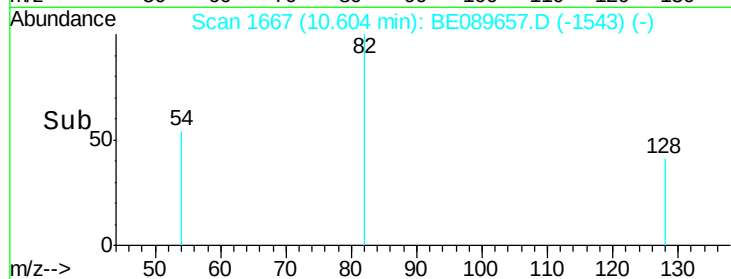
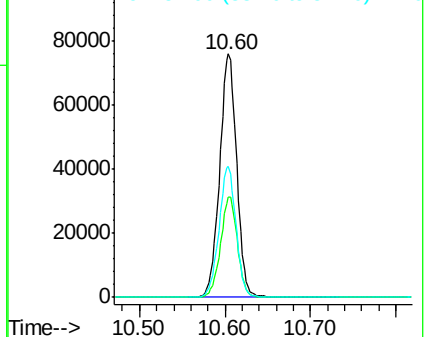


Abundance

Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.14 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

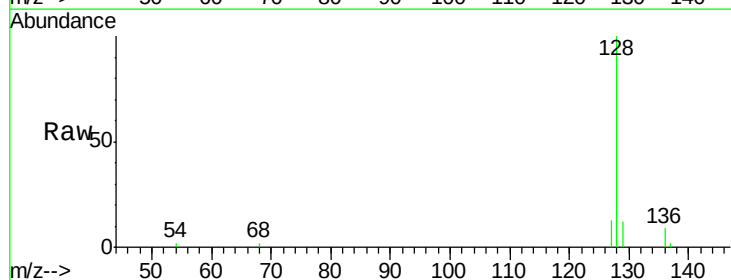
Tgt Ion: 128 Resp: 5755

Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	13.4	9.8	14.6

128 100

129 11.7 8.8 13.2

127 13.4 9.8 14.6

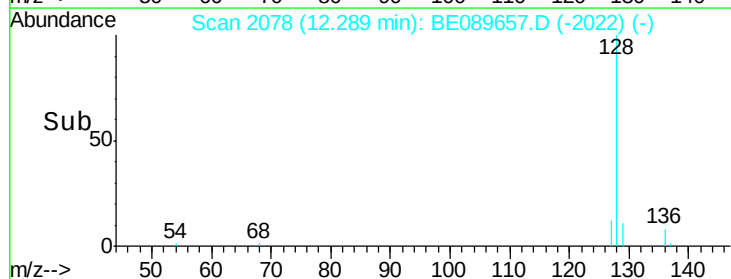
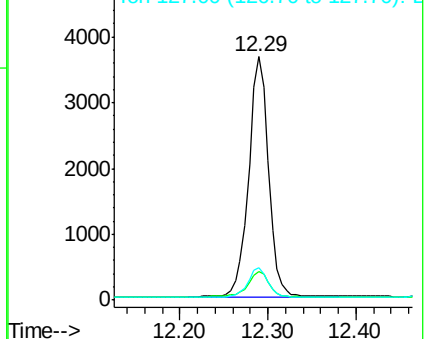


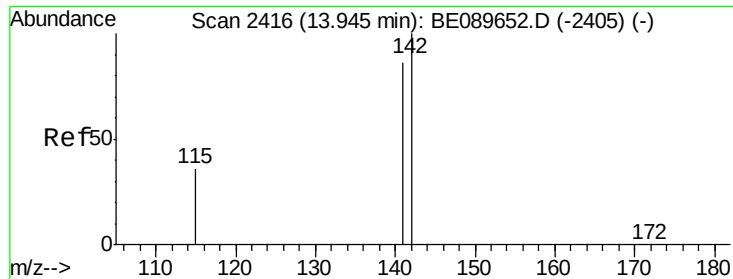
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.13 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

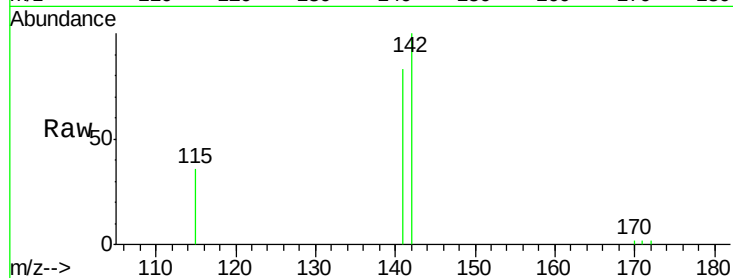
Tot Ion:142 Resp: 2893

Ion Ratio Lower Upper

142 100

141 83.2 68.6 103.0

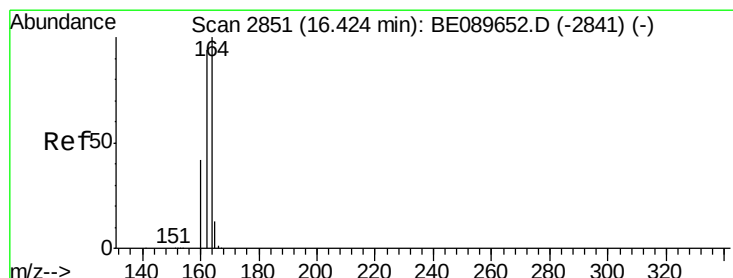
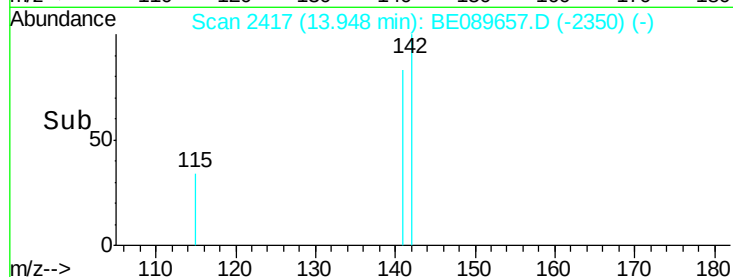
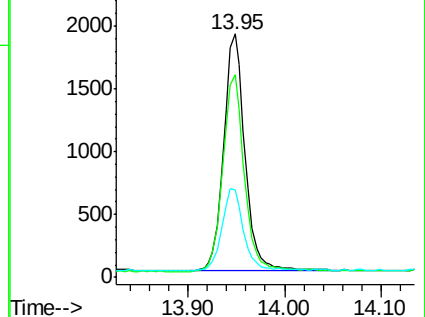
115 36.0 29.0 43.6



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: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

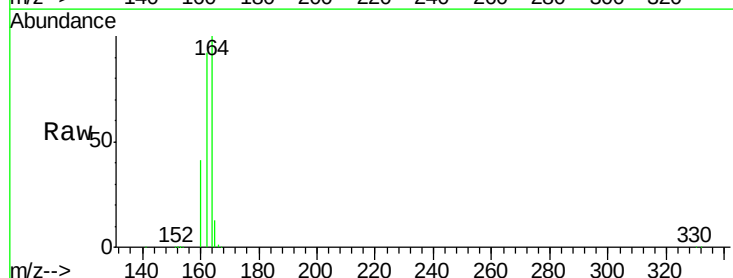
Tgt Ion:164 Resp: 87620

Ion Ratio Lower Upper

164 100

162 92.4 75.4 113.2

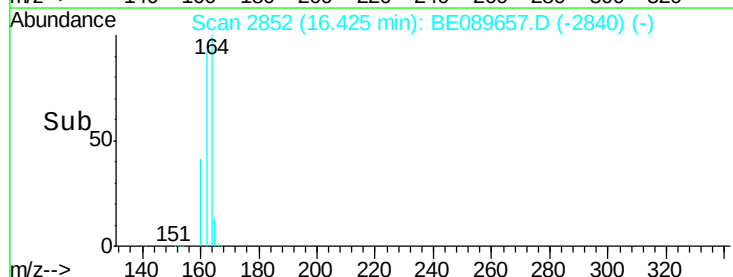
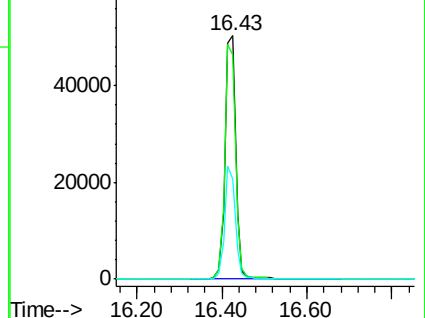
160 41.4 33.7 50.5

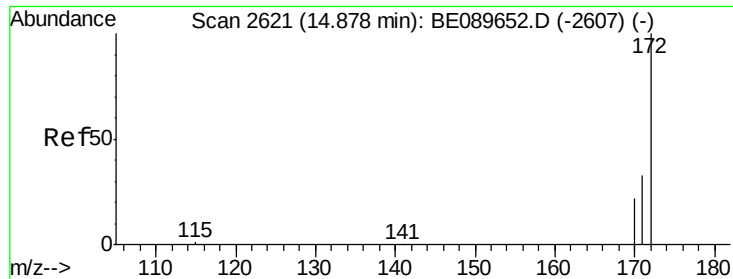


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.32 ng

RT: 14.88 min Scan# 2621

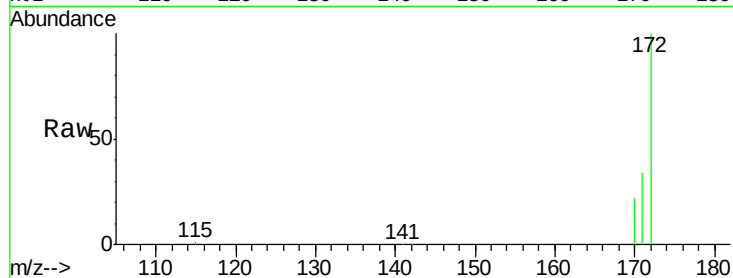
Delta R.T. -0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

Tot Ion:172 Resp: 183868

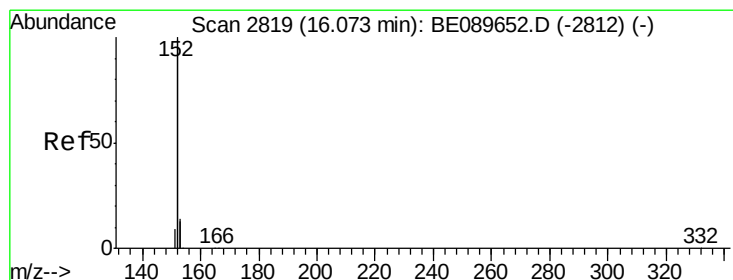
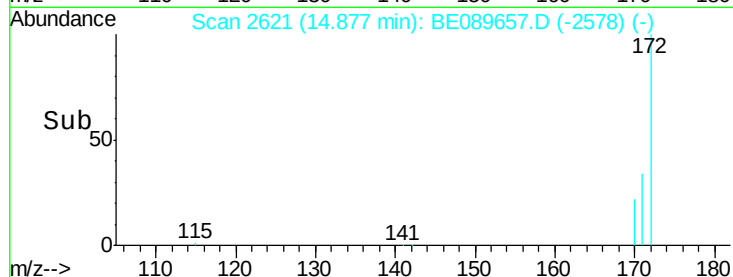
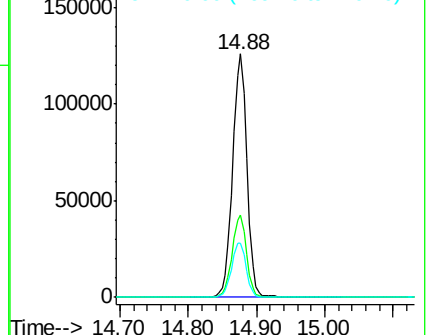
Ion	Ratio	Lower	Upper
172	100		
171	33.6	26.2	39.4
170	22.3	17.7	26.5



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# 2819

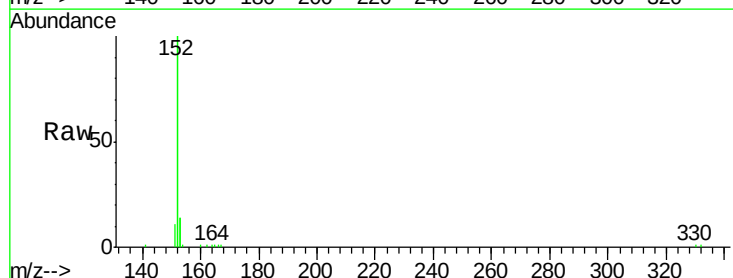
Delta R.T. -0.01 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

Tgt Ion:152 Resp: 15871

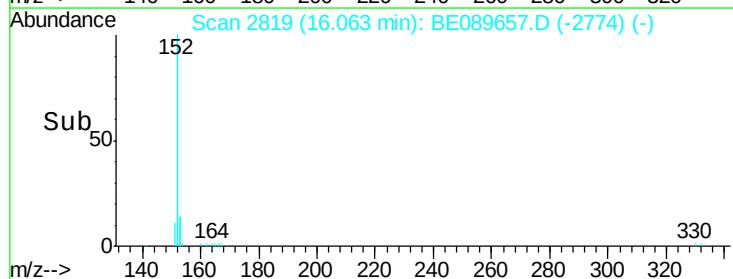
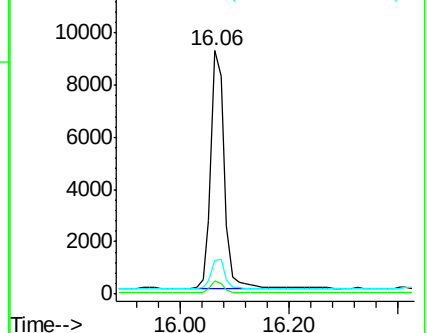
Ion	Ratio	Lower	Upper
152	100		
151	4.7	3.8	5.6
153	12.8	10.4	15.6

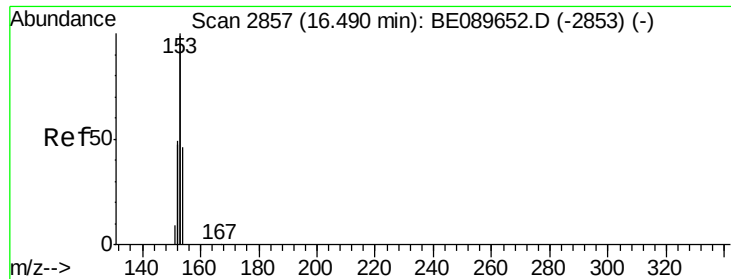


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

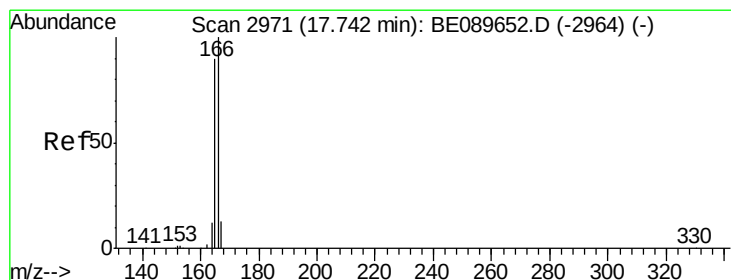
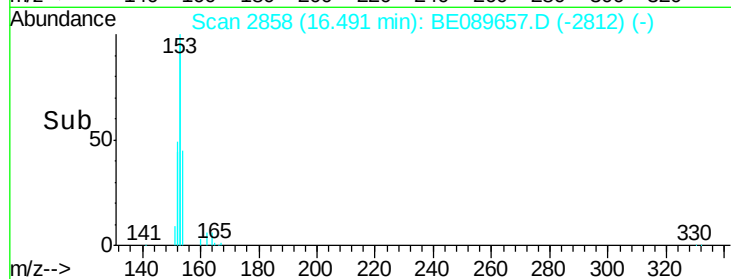
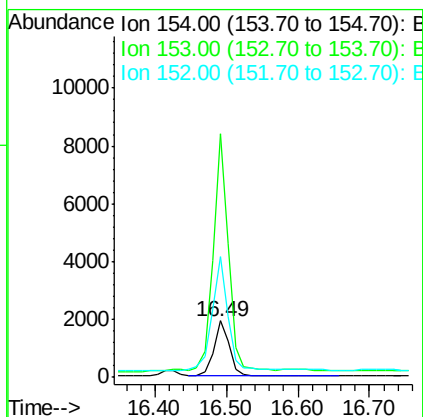
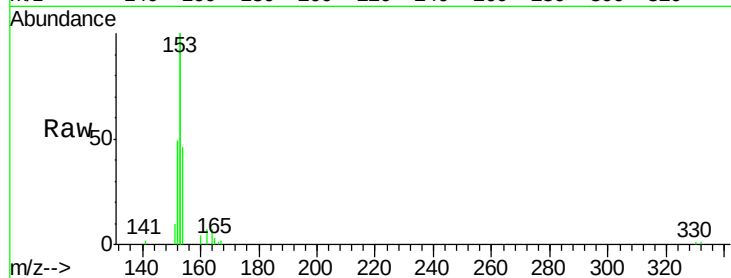
Ion 153.00 (152.70 to 153.70): E





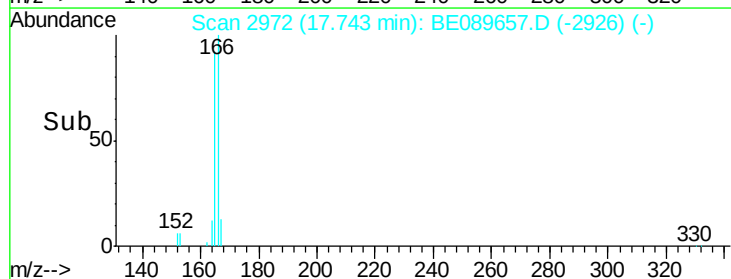
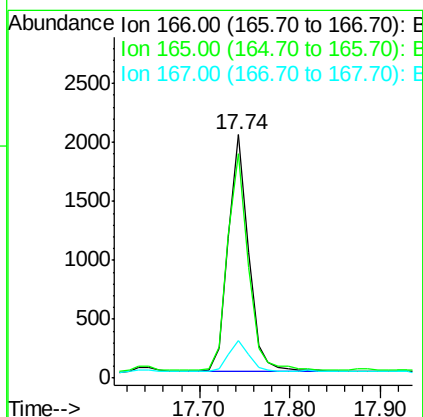
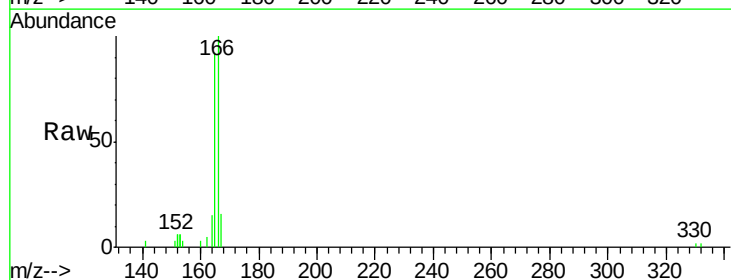
#11
Acenaphthene
Concen: 0.14 ng
RT: 16.49 min Scan# 2858
Delta R.T. 0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

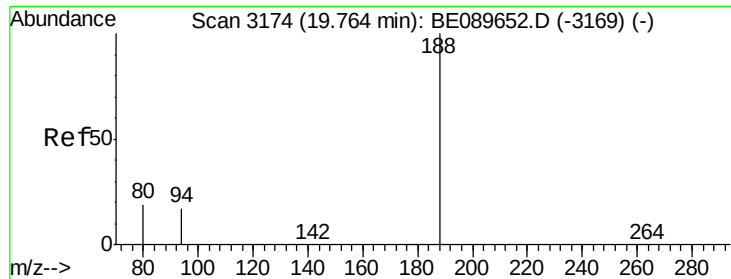
Tot Ion:154 Resp: 2889
Ion Ratio Lower Upper
154 100
153 429.0 343.0 514.4
152 212.0 165.8 248.8



#12
Fluorene
Concen: 0.14 ng
RT: 17.74 min Scan# 2972
Delta R.T. 0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

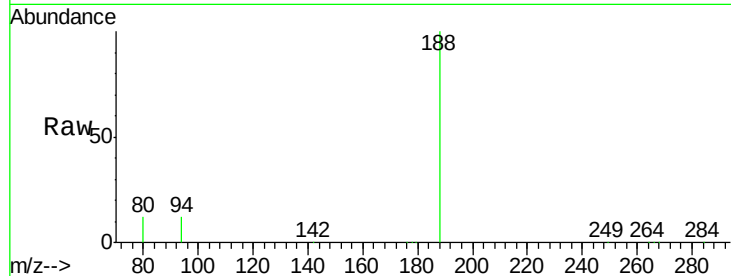
Tgt Ion:166 Resp: 3153
Ion Ratio Lower Upper
166 100
165 93.5 73.6 110.4
167 13.9 10.5 15.7



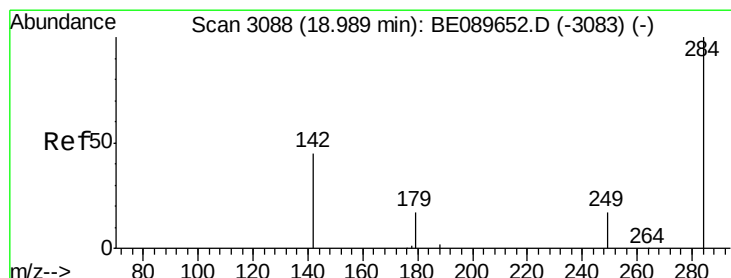
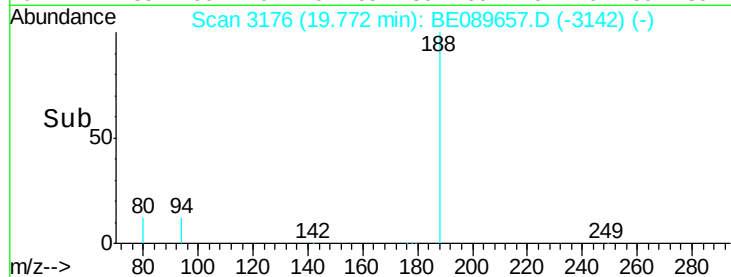
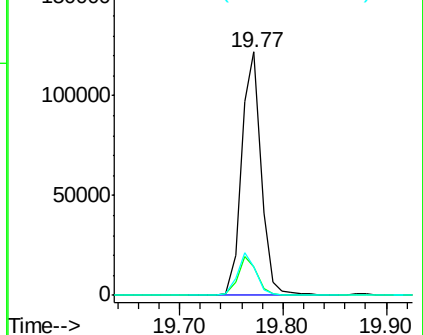


#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.01 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tot Ion:188 Resp: 159594
Ion Ratio Lower Upper
188 100
94 11.6 13.8 20.8#
80 11.8 15.0 22.6#

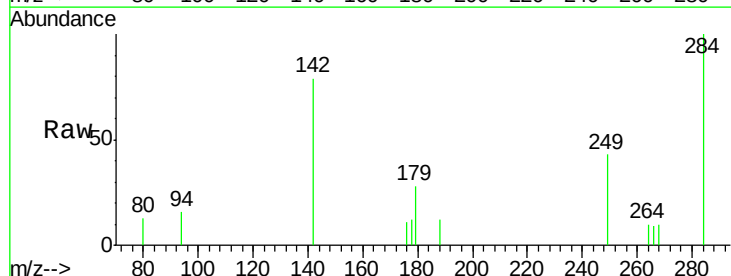


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

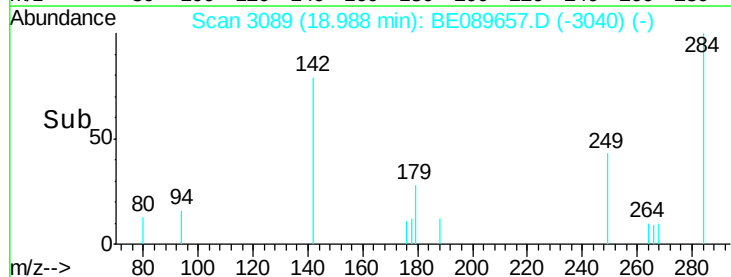
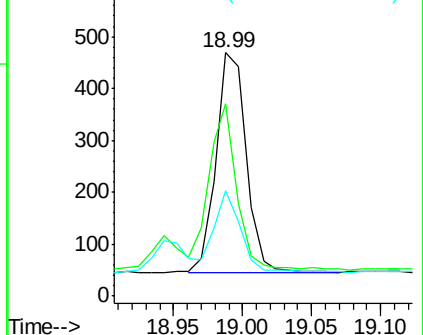


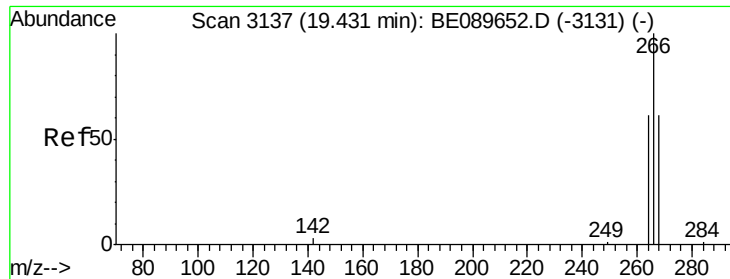
#14
Hexachlorobenzene
Concen: 0.15 ng
RT: 18.99 min Scan# 3089
Delta R.T. -0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tgt Ion:284 Resp: 636
Ion Ratio Lower Upper
284 100
142 70.4 55.0 82.6
249 32.9 26.1 39.1



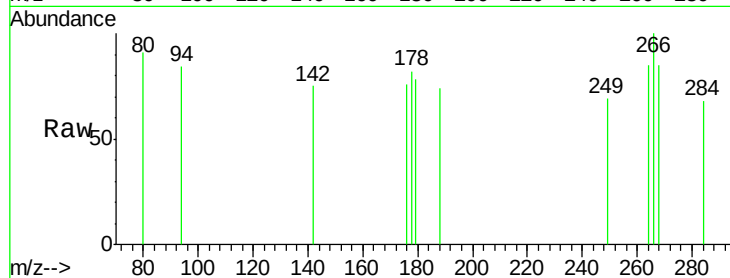
Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



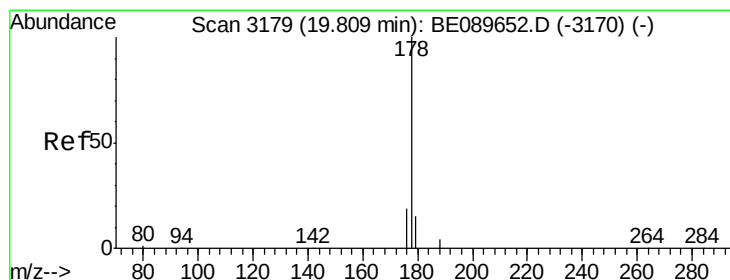
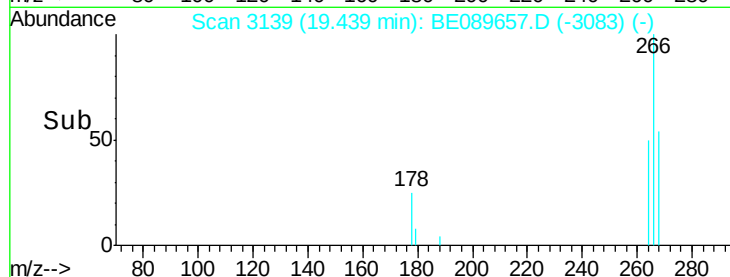
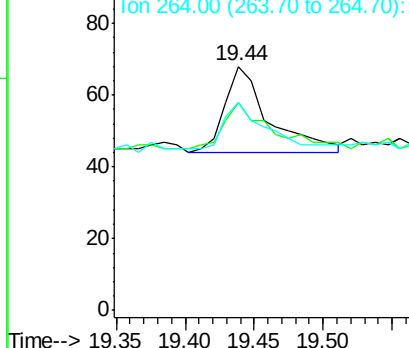


#15
 Pentachlorophenol
 Concen: 0.26 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.01 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

Tot Ion	Ratio	Lower	Upper
266	100		
268	85.3	54.7	82.1#
264	85.3	55.4	83.0#

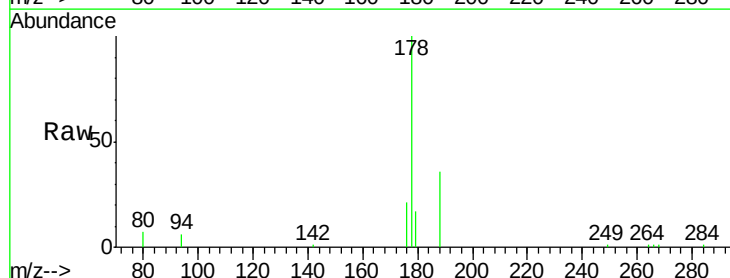


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

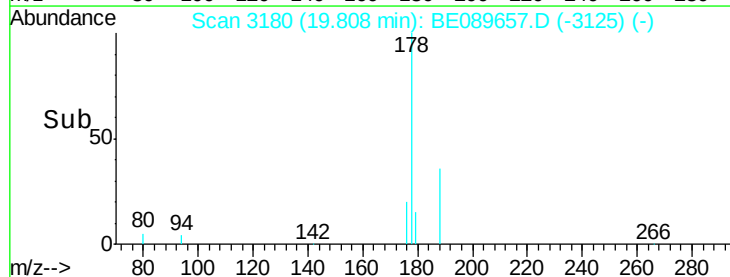
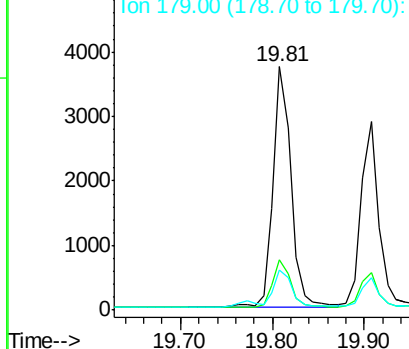


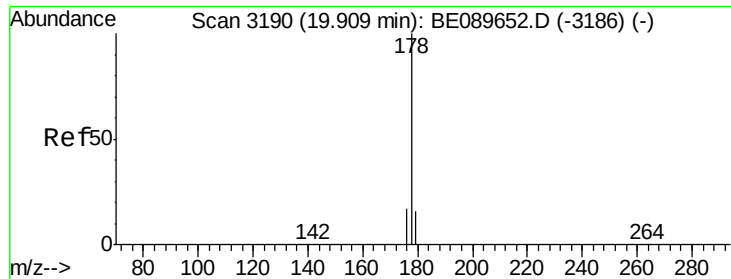
#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	17.2	12.3	18.5



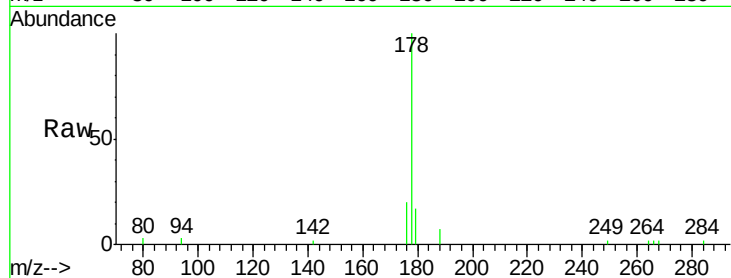
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



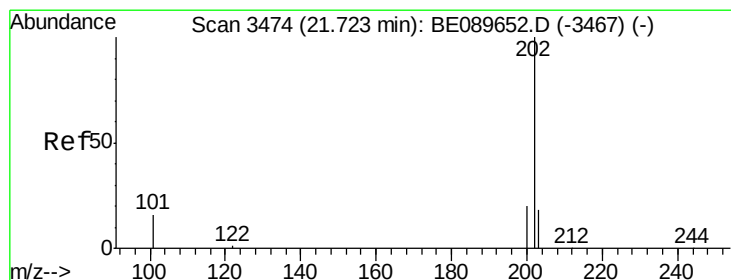
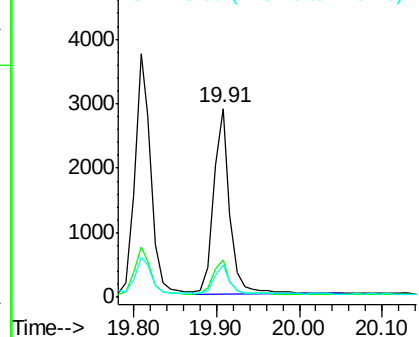
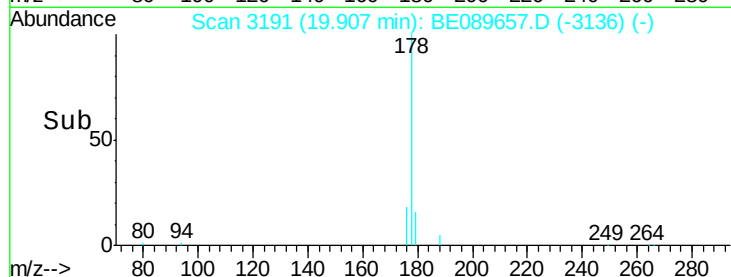


#17
 Anthracene
 Concen: 0.13 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

Tot Ion:178 Resp: 3923
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.3 21.5
 179 14.6 12.1 18.1

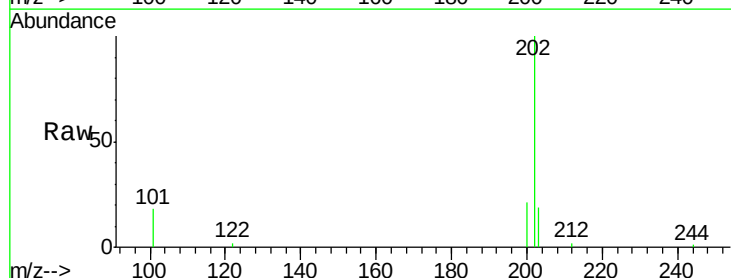


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

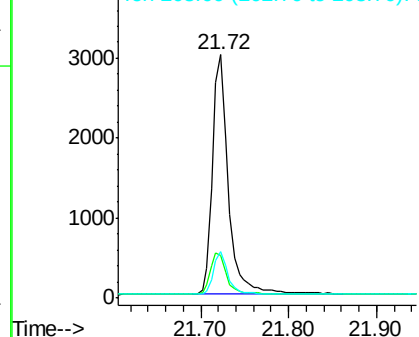
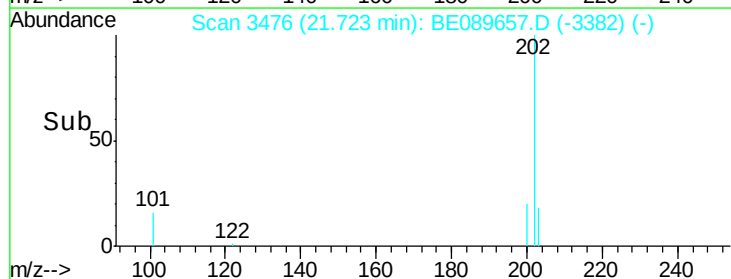


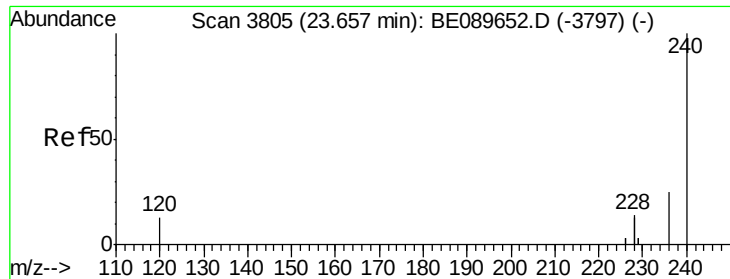
#18
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

Tgt Ion:202 Resp: 3791
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.9 22.3
 203 16.8 13.7 20.5



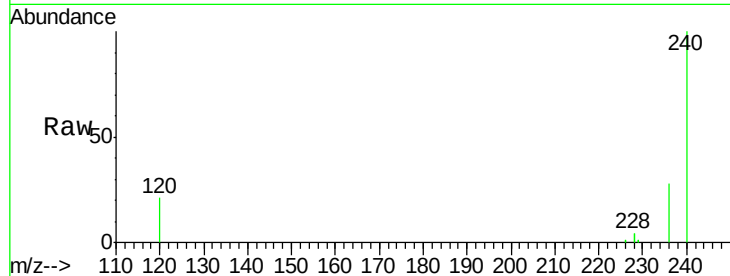
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



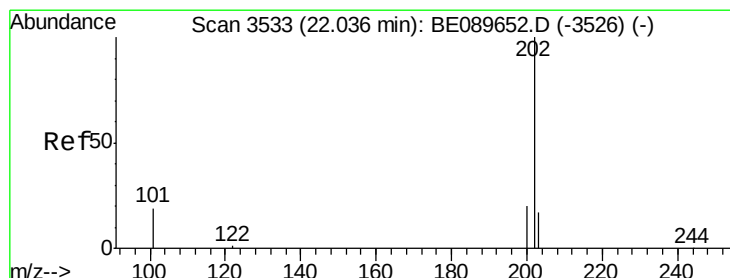
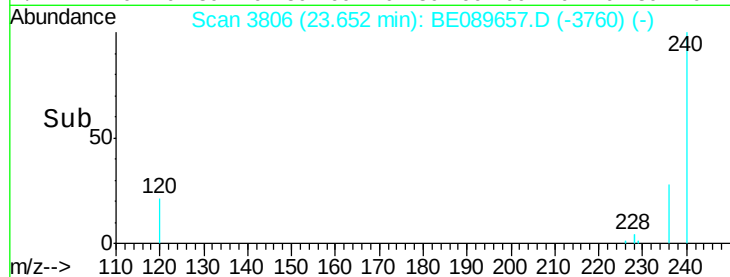
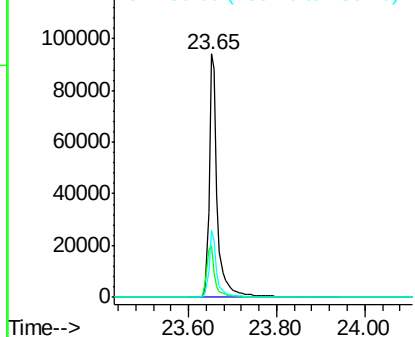


#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.65 min Scan# 3806
Delta R.T. -0.01 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tot Ion:240 Resp: 123177
Ion Ratio Lower Upper
240 100
120 21.2 10.6 15.8#
236 27.7 20.3 30.5

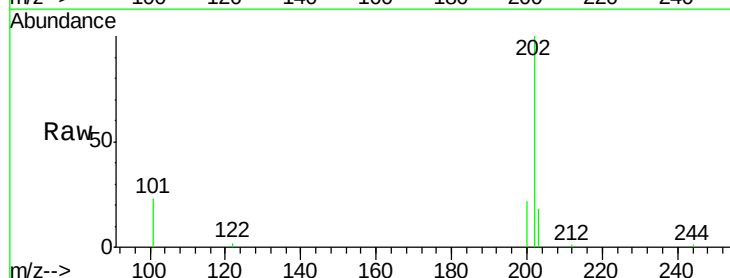


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

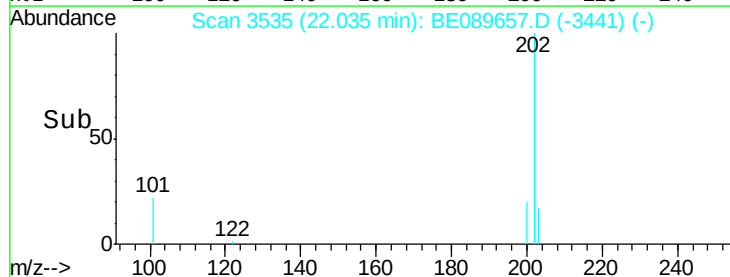
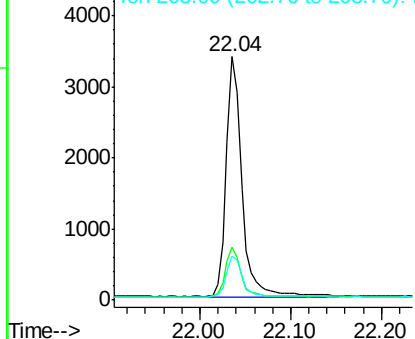


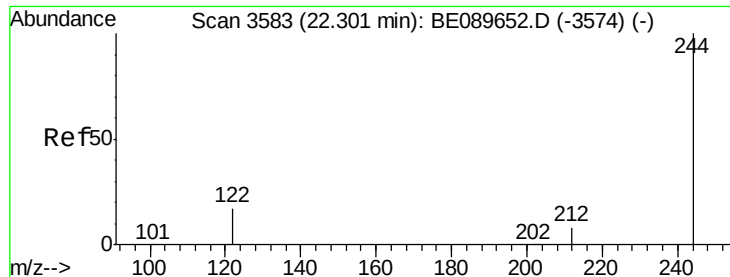
#20
Pyrene
Concen: 0.13 ng
RT: 22.04 min Scan# 3535
Delta R.T. -0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tgt Ion:202 Resp: 4095
Ion Ratio Lower Upper
202 100
200 20.5 16.5 24.7
203 17.4 13.8 20.6



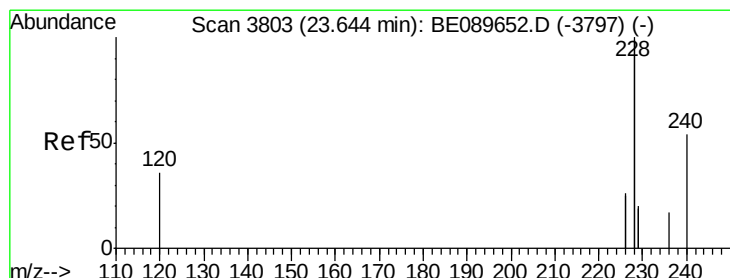
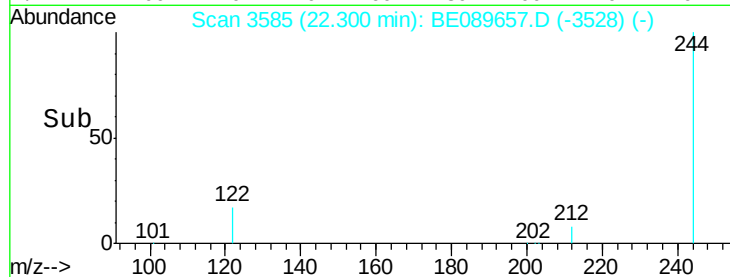
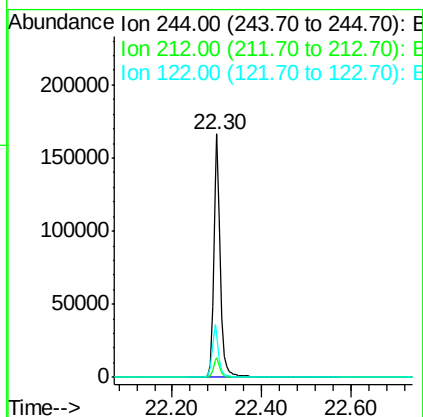
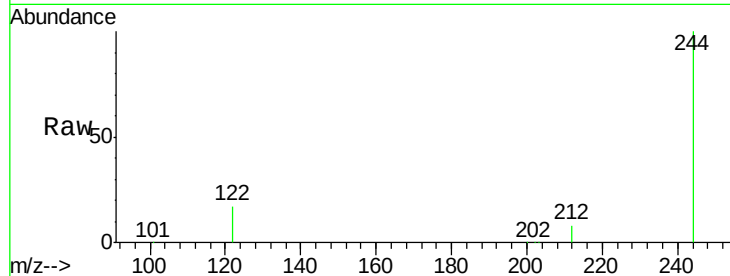
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





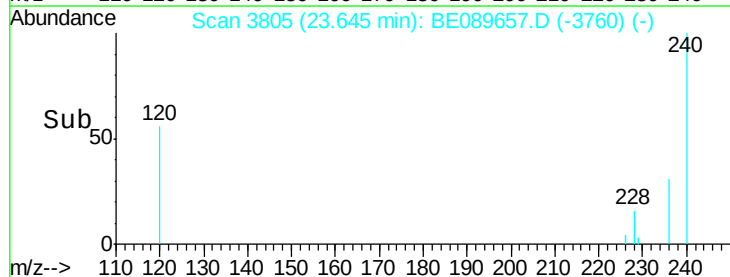
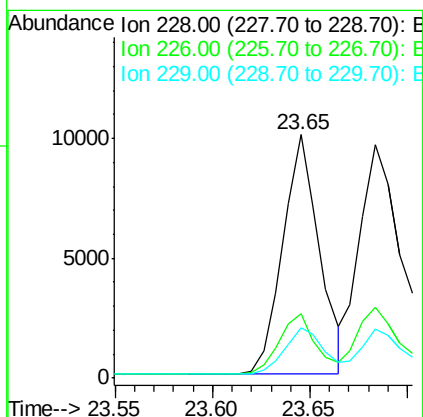
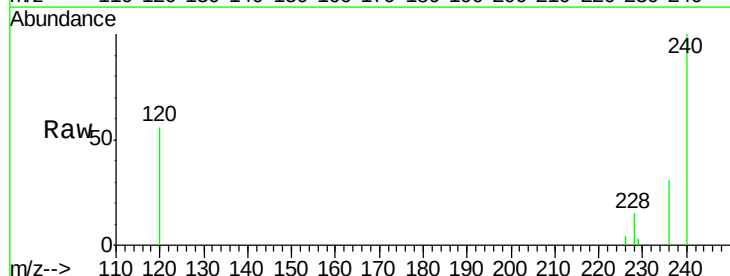
#21
 Terphenyl-d14
 Concen: 9.90 ng
 RT: 22.30 min Scan# 3585
 Delta R.T. -0.00 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

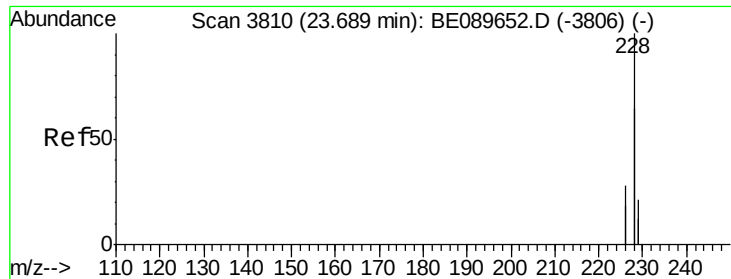
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.6	10.0
122	17.3	13.7	20.5



#22
 Benzo(a)anthracene
 Concen: 0.15 ng
 RT: 23.65 min Scan# 3805
 Delta R.T. 0.00 min
 Lab File: BE089657.D
 Acq: 24 Feb 2015 2:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	20.9	31.3
229	20.7	15.8	23.6





#23

Chrysene

Concen: 0.16 ng

RT: 23.68 min Scan# 3811

Delta R.T. -0.01 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

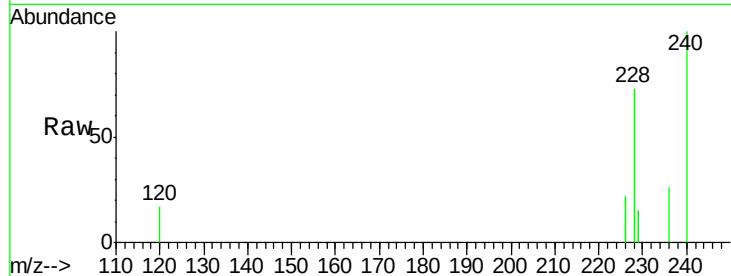
Tot Ion:228 Resp: 18448

Ion Ratio Lower Upper

228 100

226 30.1 22.0 33.0

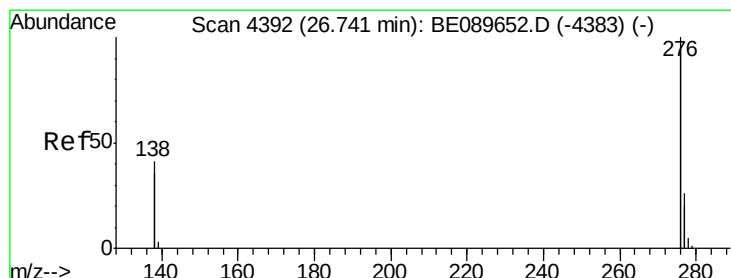
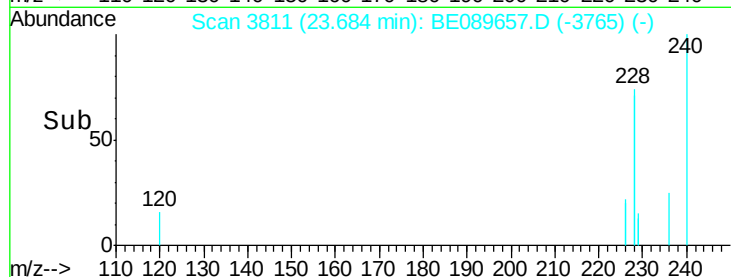
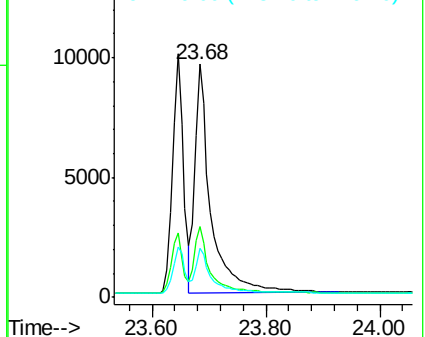
229 20.8 16.6 24.8



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: 0.40 ng

RT: 26.74 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

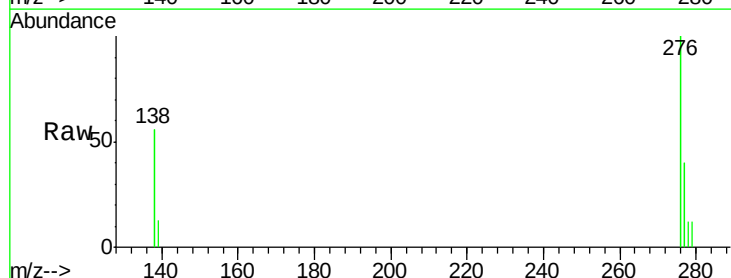
Tgt Ion:276 Resp: 3334

Ion Ratio Lower Upper

276 100

138 41.5 36.2 54.4

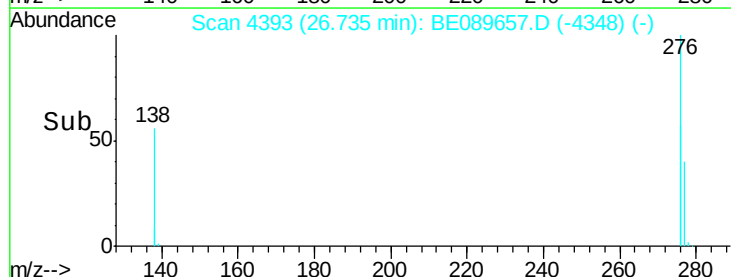
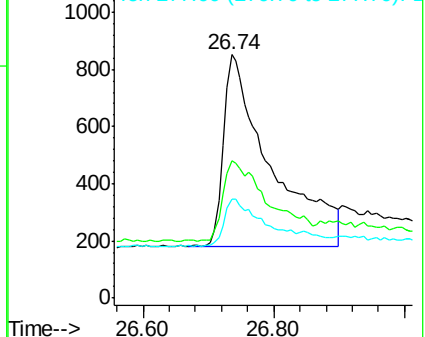
277 21.5 5.4 8.2#

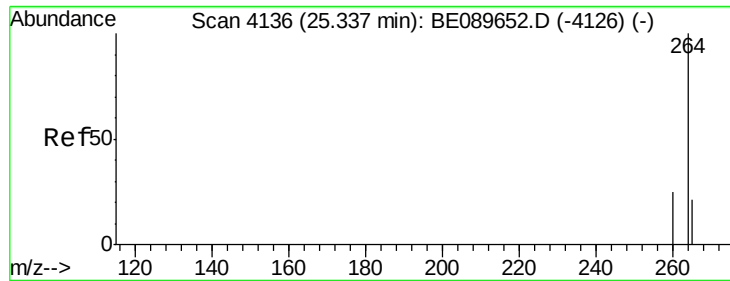


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

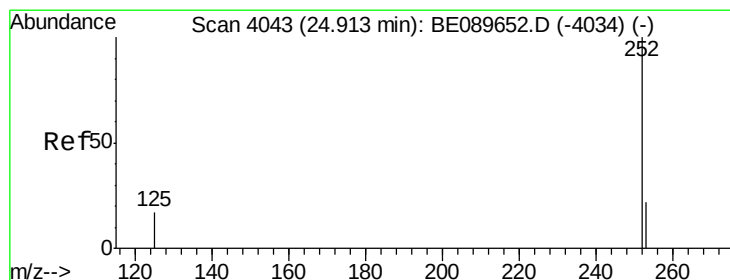
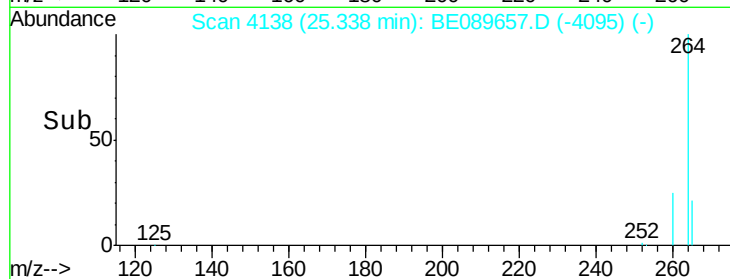
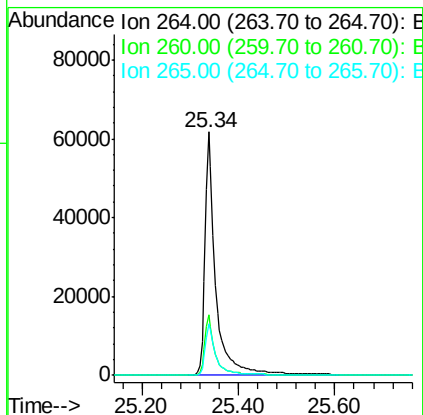
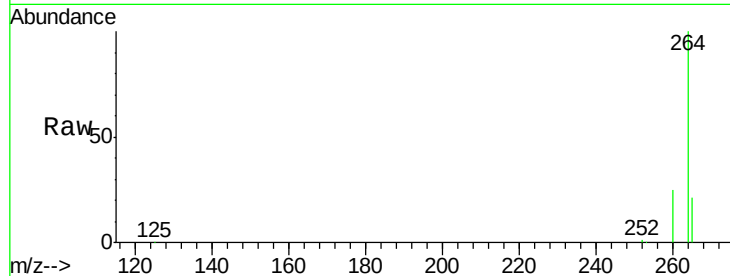
Ion 277.00 (276.70 to 277.70): E





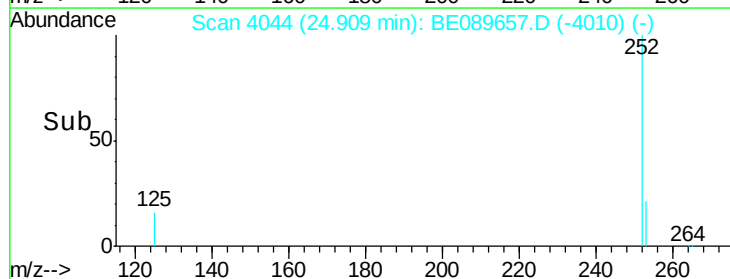
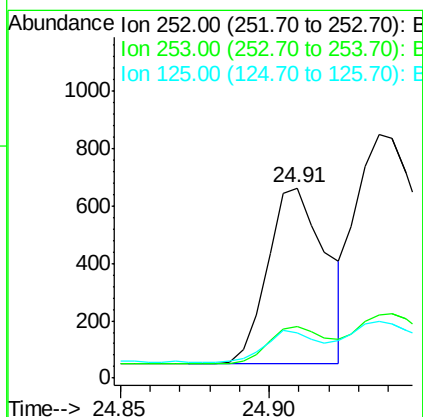
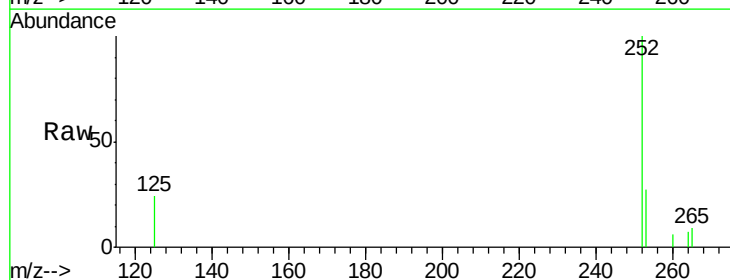
#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

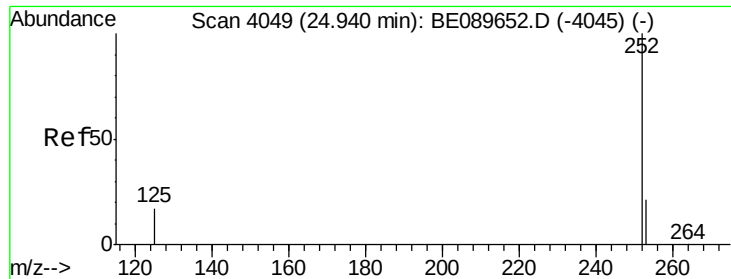
Tot Ion: 264 Resp: 96844
Ion Ratio Lower Upper
264 100
260 24.9 20.0 30.0
265 21.3 16.8 25.2



#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089657.D
Acq: 24 Feb 2015 2:04

Tgt Ion: 252 Resp: 833
Ion Ratio Lower Upper
252 100
253 27.5 18.3 27.5#
125 23.9 14.6 22.0#





#27

Benzo(k)fluoranthene

Concen: 0.11 ng m

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

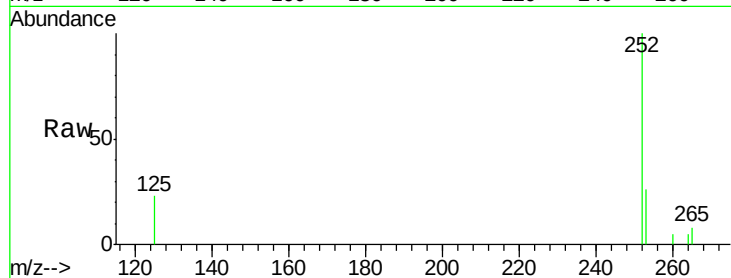
Tot Ion:252 Resp: 2230

Ion Ratio Lower Upper

252 100

253 26.2 17.8 26.8

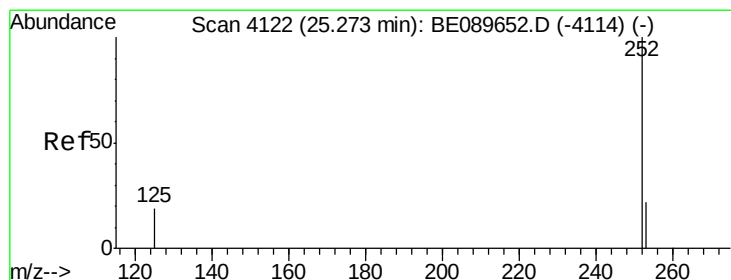
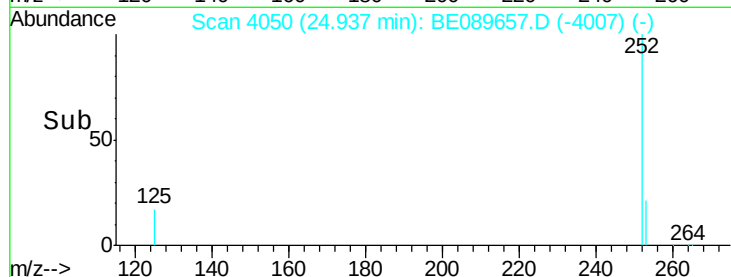
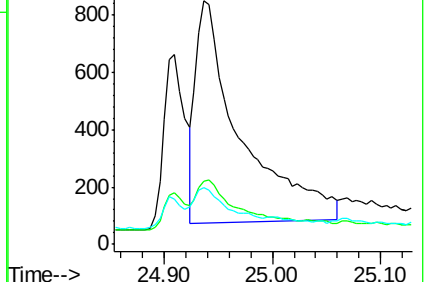
125 23.2 14.3 21.5#



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



#28

Benzo(a)pyrene

Concen: 0.37 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

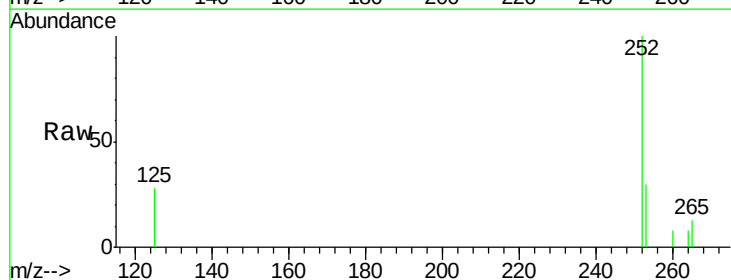
Tgt Ion:252 Resp: 938

Ion Ratio Lower Upper

252 100

253 29.7 18.4 27.6#

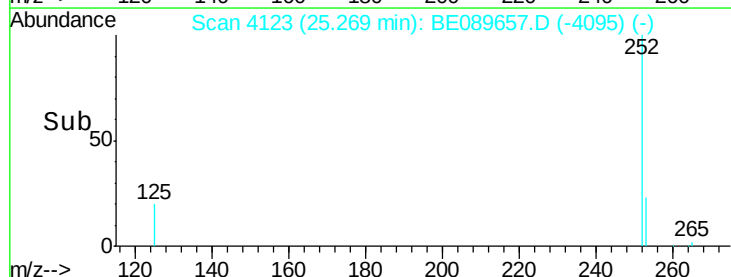
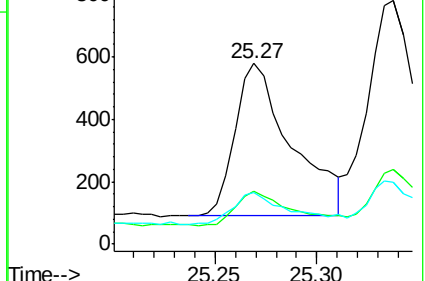
125 28.4 15.9 23.9#

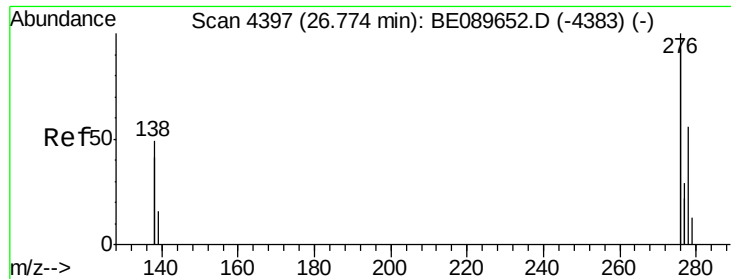


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 26.77 min Scan# 4399

Delta R.T. 0.00 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

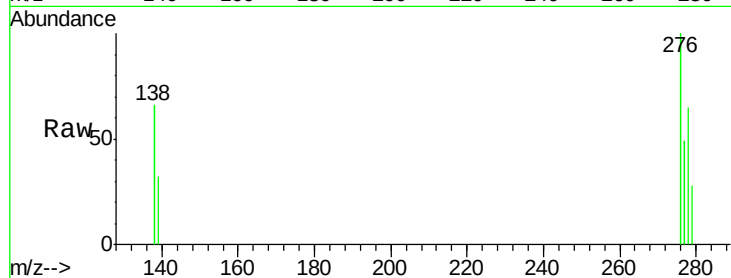
Tot Ion:278 Resp: 477

Ion Ratio Lower Upper

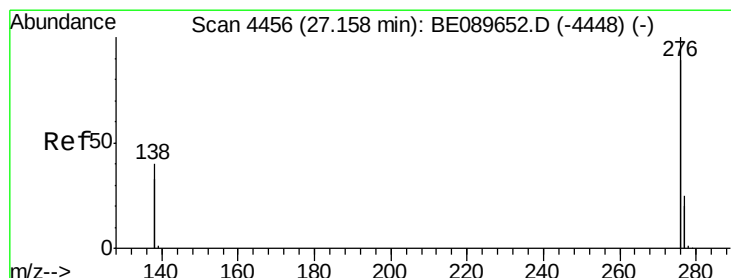
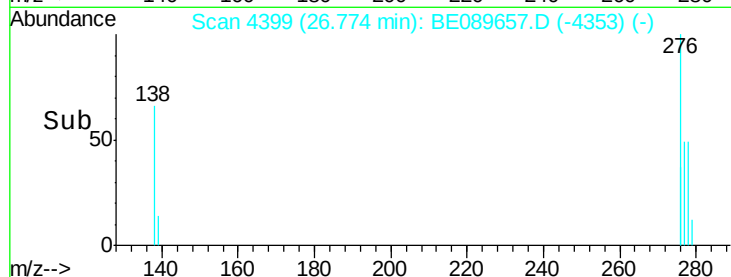
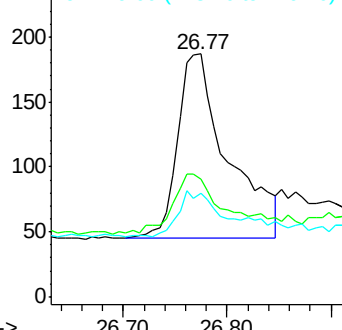
278 100

139 48.7 25.4 38.2#

279 42.8 20.0 30.0#



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



#30

Benzo(g,h,i)perylene

Concen: 0.28 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089657.D

Acq: 24 Feb 2015 2:04

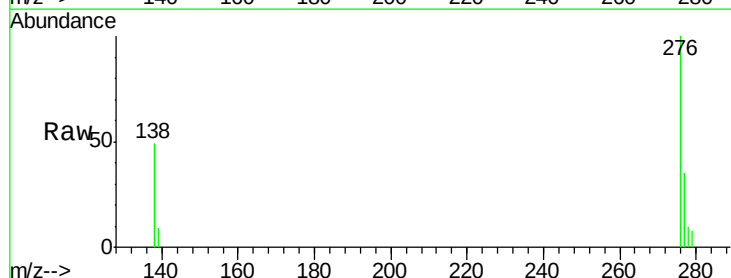
Tgt Ion:276 Resp: 4702

Ion Ratio Lower Upper

276 100

277 34.9 20.2 30.2#

138 49.4 32.4 48.6#



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

