

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089662.D
 Acq On : 24 Feb 2015 5:18
 Operator : TP/JJ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 24 07:04:11 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	46850	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	182938	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	81931	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	148119	5.00	ng	0.00
19) Chrysene-d12	23.66	240	112014	5.00	ng	0.00
25) Perylene-d12	25.34	264	86565	5.00	ng	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	10.60	82	106509	9.63	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	175113	9.50	ng	0.00
21) Terphenyl-d14	22.30	244	157821	9.87	ng	0.00

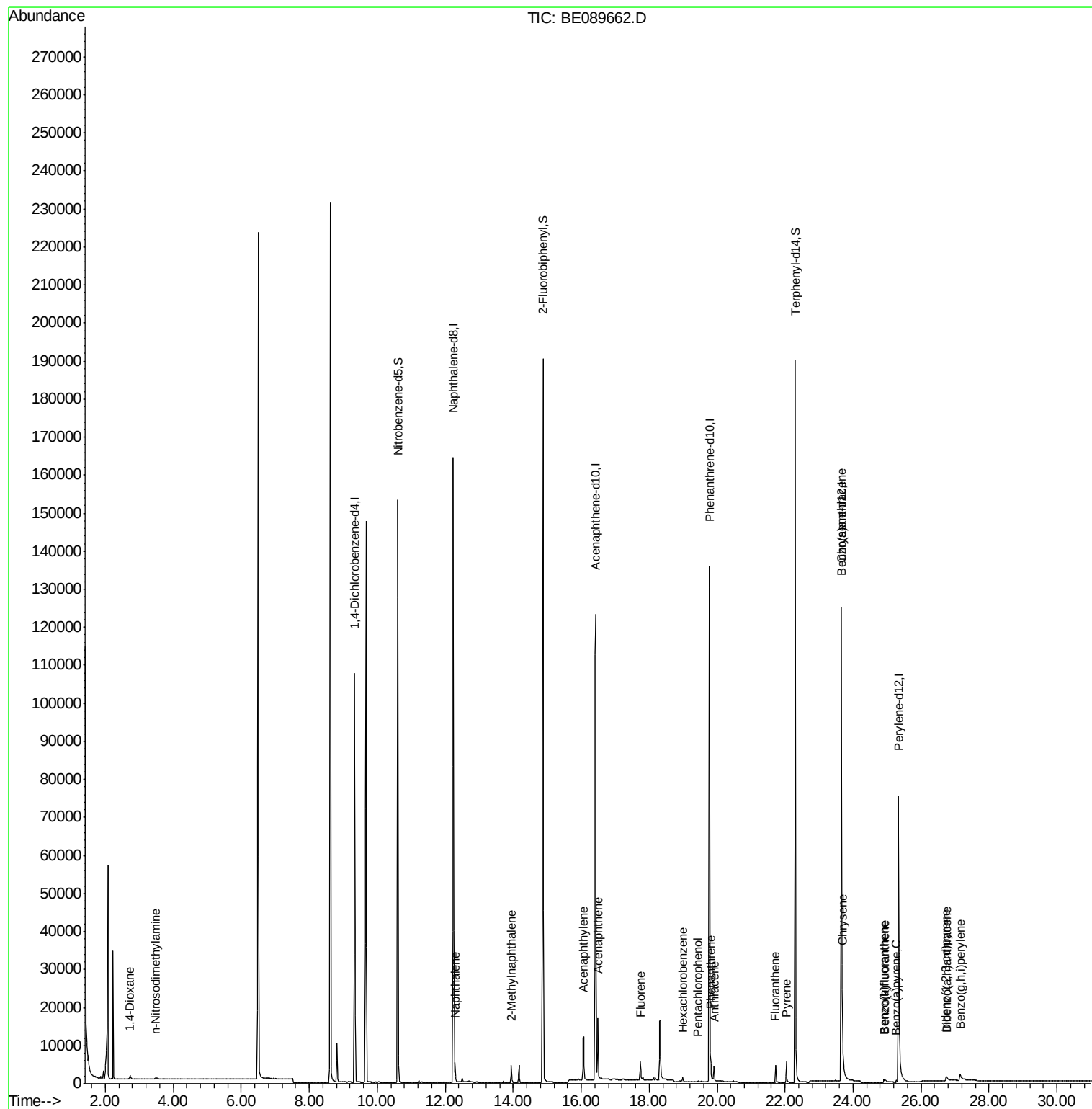
Target Compounds

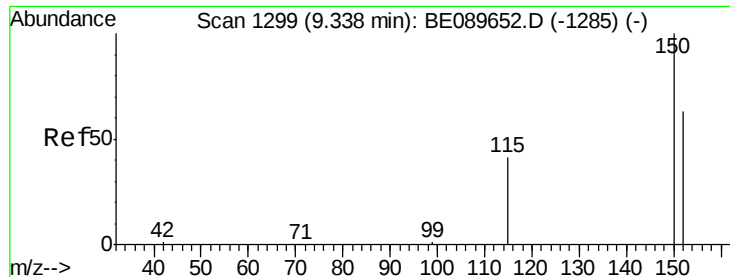
						Ovalue
2) 1,4-Dioxane	2.72	88	873	0.15	ng	# 80
3) n-Nitrosodimethylamine	3.49	42	889	0.16	ng	# 94
6) Naphthalene	12.29	128	6078	0.16	ng	98
7) 2-Methylnaphthalene	13.95	142	3213	0.15	ng	96
10) Acenaphthylene	16.07	152	17377	0.14	ng	100
11) Acenaphthene	16.49	154	3114	0.16	ng	97
12) Fluorene	17.74	166	3391	0.16	ng	100
14) Hexachlorobenzene	18.99	284	693	0.17	ng	96
15) Pentachlorophenol	19.44	266	45	0.25	ng	# 80
16) Phenanthrene	19.81	178	5418	0.17	ng	98
17) Anthracene	19.91	178	4213	0.15	ng	99
18) Fluoranthene	21.72	202	3950	0.15	ng	99
20) Pyrene	22.04	202	4239	0.15	ng	99
22) Benzo(a)anthracene	23.64	228	11792	0.15	ng	97
23) Chrysene	23.68	228	19025	0.18	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	3131	0.40	ng	# 89
26) Benzo(b)fluoranthene	24.91	252	736	0.42	ng	# 85
27) Benzo(k)fluoranthene	24.94	252	2211m	0.12	ng	
28) Benzo(a)pyrene	25.27	252	892	0.38	ng	# 86
29) Dibenzo(a,h)anthracene	26.77	278	486	0.40	ng	# 62
30) Benzo(g,h,i)perylene	27.15	276	5238	0.30	ng	# 81

(#) = 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: BE089662.D

Acq: 24 Feb 2015 5:18

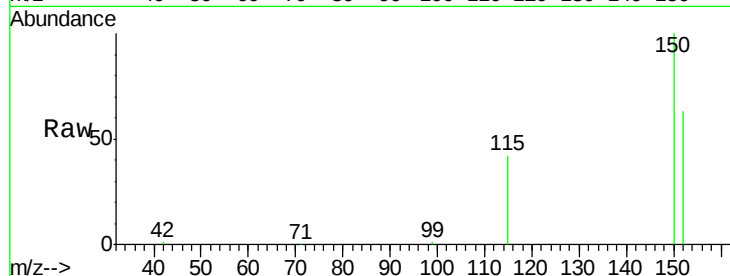
Tot Ion: 152 Resp: 46850

Ion Ratio Lower Upper

152 100

150 159.1 127.0 190.6

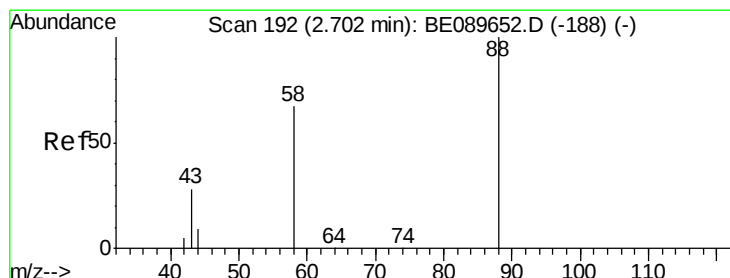
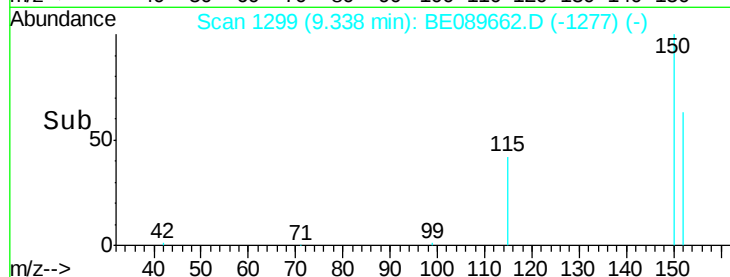
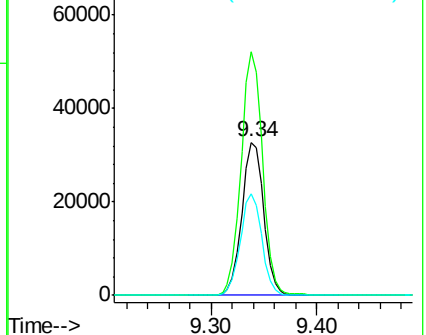
115 66.4 52.4 78.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.15 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

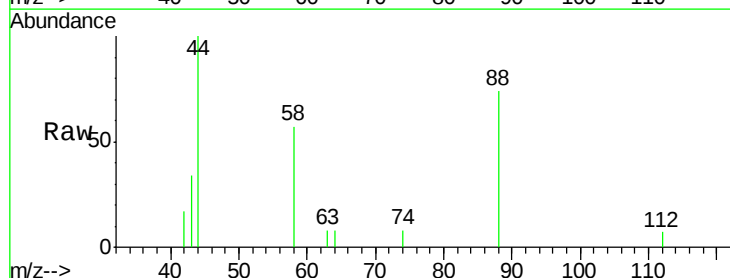
Tgt Ion: 88 Resp: 873

Ion Ratio Lower Upper

88 100

58 80.3 61.8 92.6

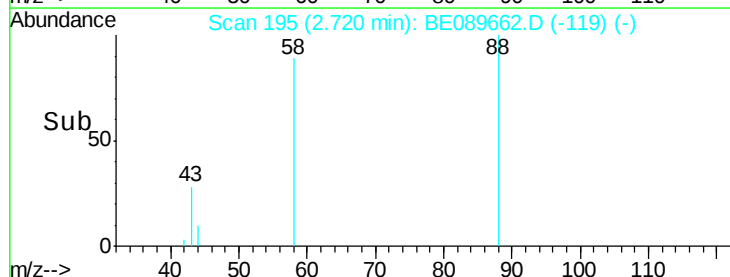
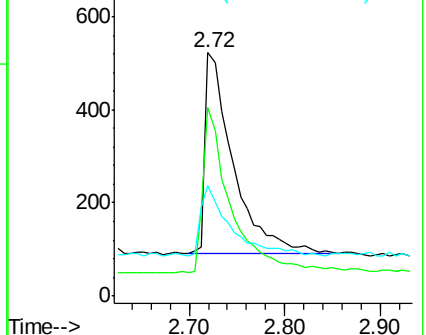
43 0.0 26.4 39.6

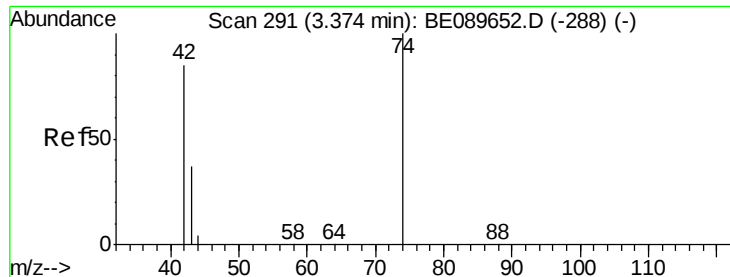


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

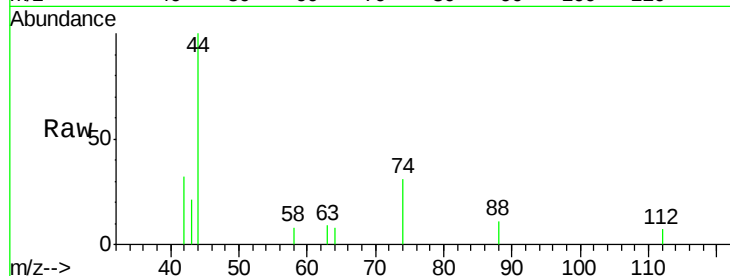




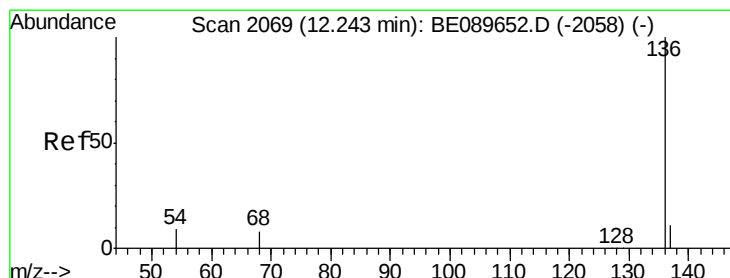
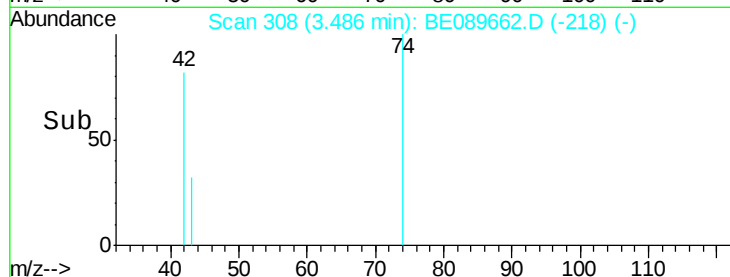
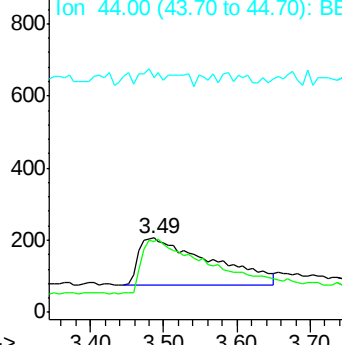
#3

n-Nitrosodimethylamine
Concen: 0.16 ng
RT: 3.49 min Scan# 308
Delta R.T. 0.11 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

Tot Ion: 42 Resp: 889
Ion Ratio Lower Upper
42 100
74 122.5 92.5 138.7
44 7.4 4.9 7.3#



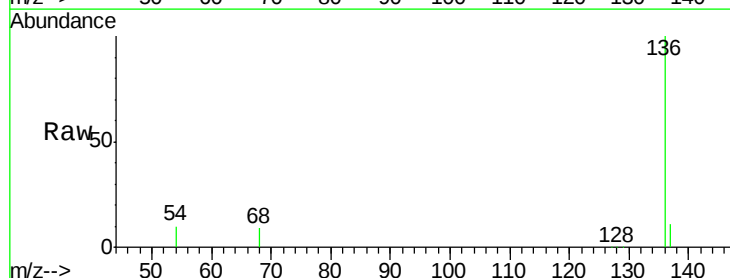
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



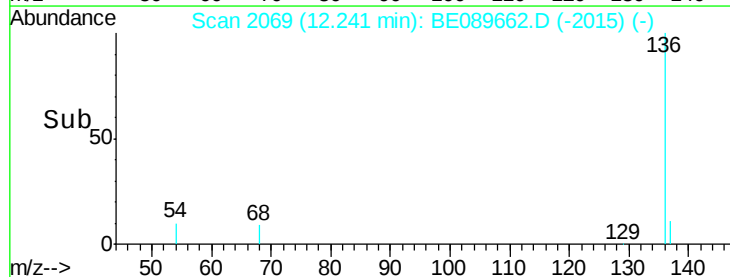
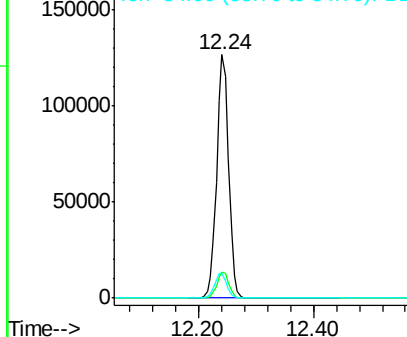
#4

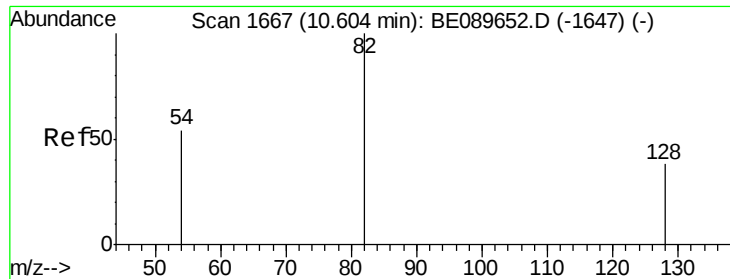
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. -0.00 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

Tgt Ion: 136 Resp: 182938
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 10.3 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: 9.63 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

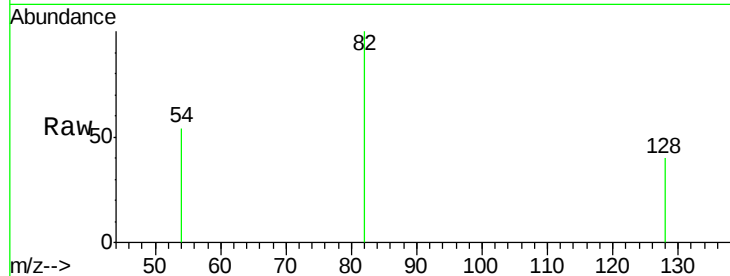
Tot Ion: 82 Resp: 106509

Ion Ratio Lower Upper

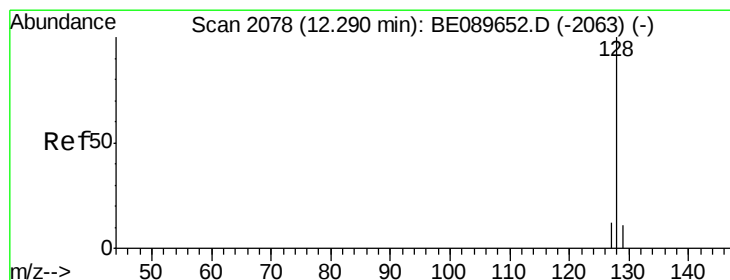
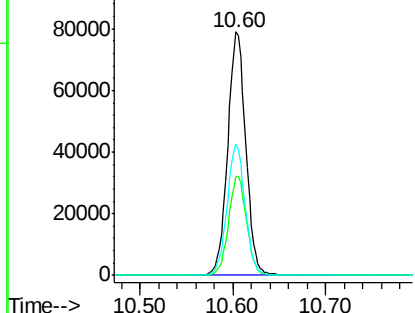
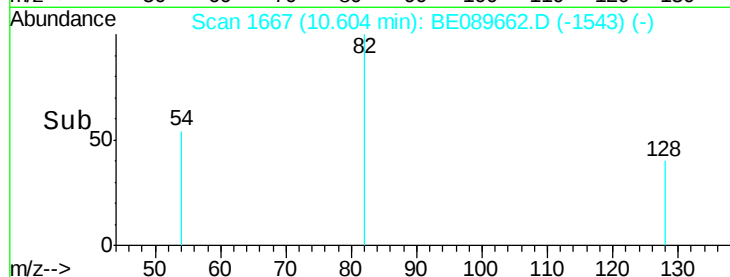
82 100

128 40.5 31.0 46.4

54 53.7 43.8 65.8



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.16 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

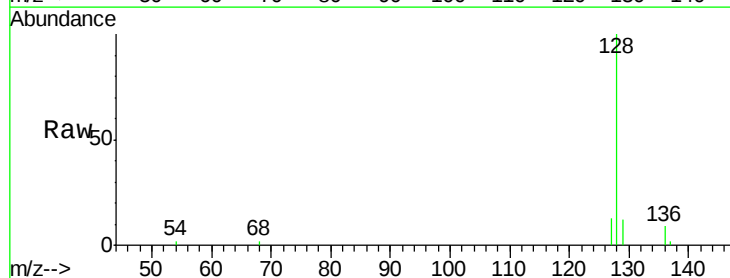
Tgt Ion: 128 Resp: 6078

Ion Ratio Lower Upper

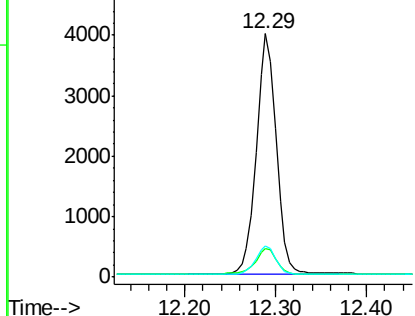
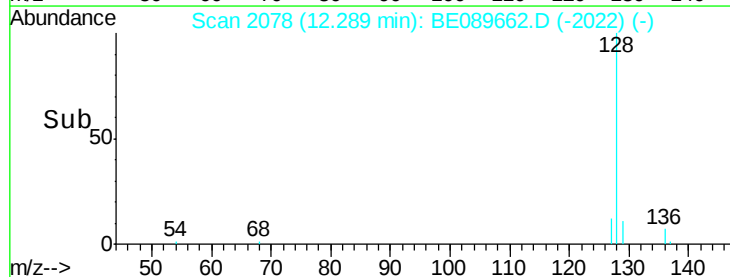
128 100

129 12.0 8.8 13.2

127 13.0 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: 0.15 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

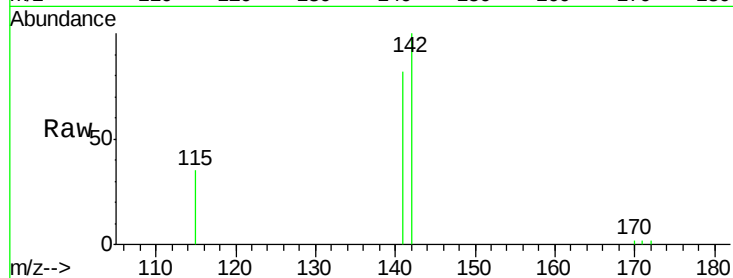
Tot Ion:142 Resp: 3213

Ion Ratio Lower Upper

142 100

141 81.7 68.6 103.0

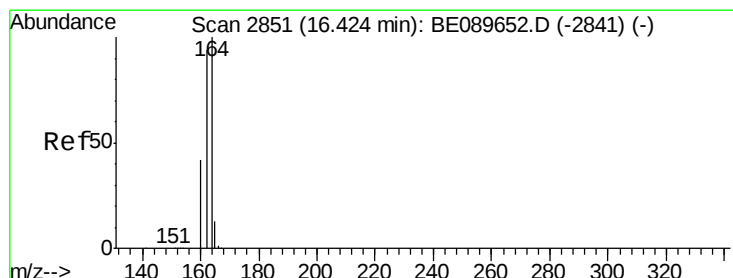
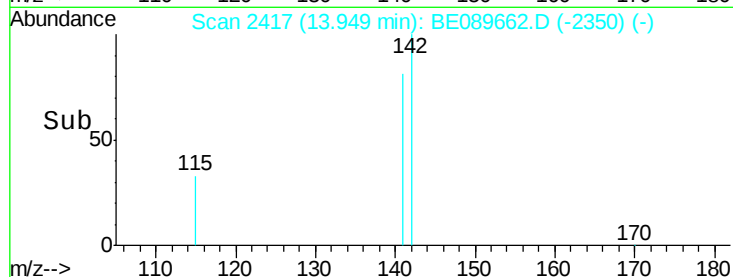
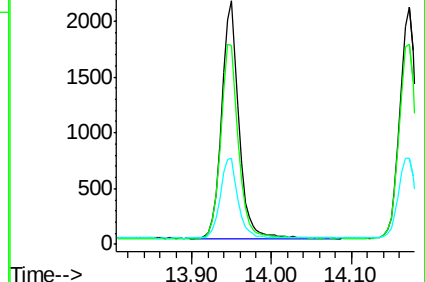
115 35.4 29.0 43.6



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: 16.42 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

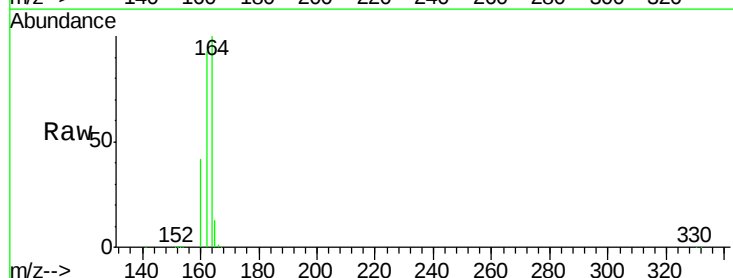
Tgt Ion:164 Resp: 81931

Ion Ratio Lower Upper

164 100

162 92.9 75.4 113.2

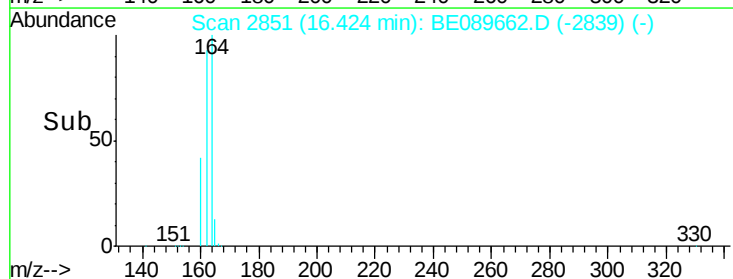
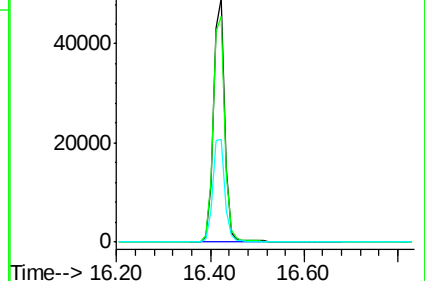
160 42.3 33.7 50.5



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: 9.50 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

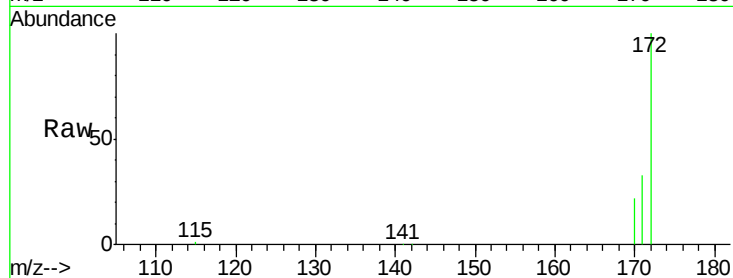
Tot Ion:172 Resp: 175113

Ion Ratio Lower Upper

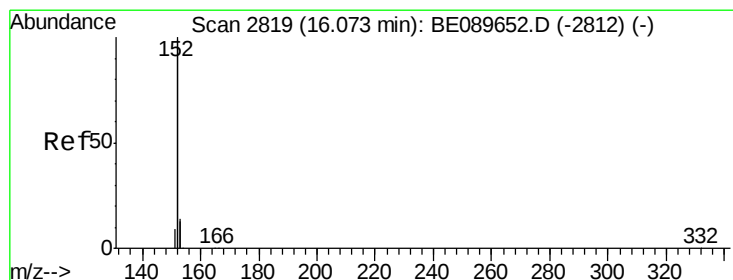
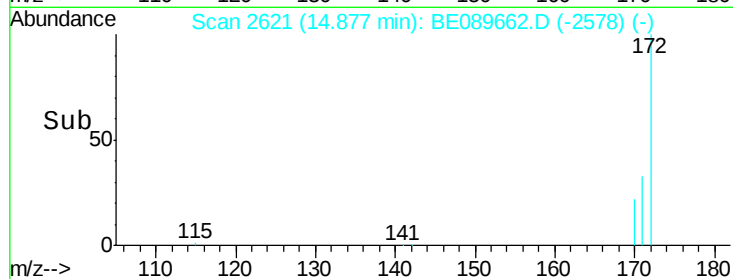
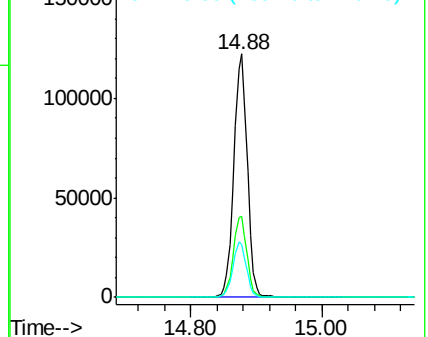
172 100

171 33.1 26.2 39.4

170 21.9 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: 0.14 ng

RT: 16.07 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

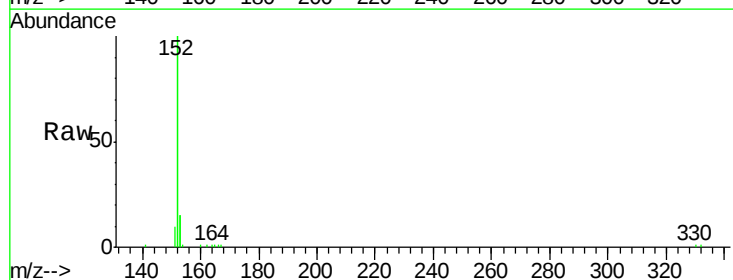
Tgt Ion:152 Resp: 17377

Ion Ratio Lower Upper

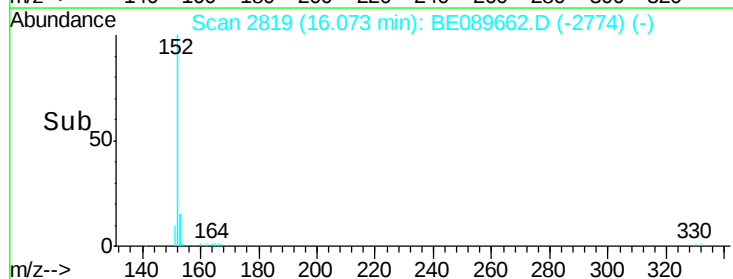
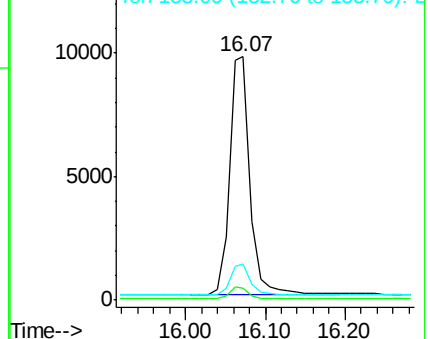
152 100

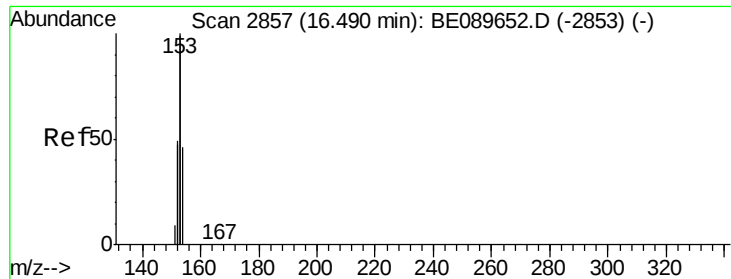
151 4.7 3.8 5.6

153 13.1 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: 0.16 ng

RT: 16.49 min Scan# 2857

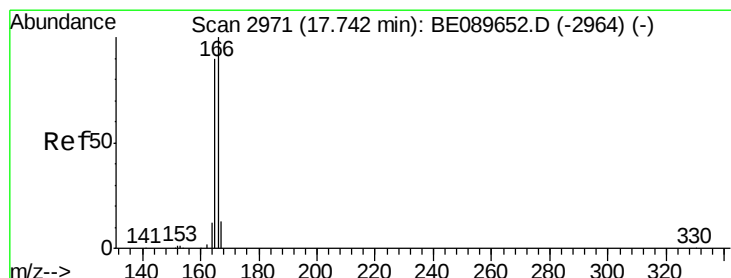
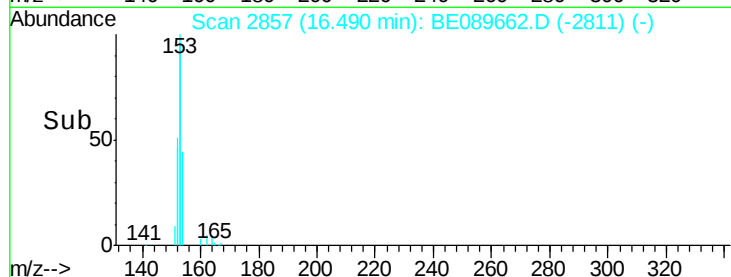
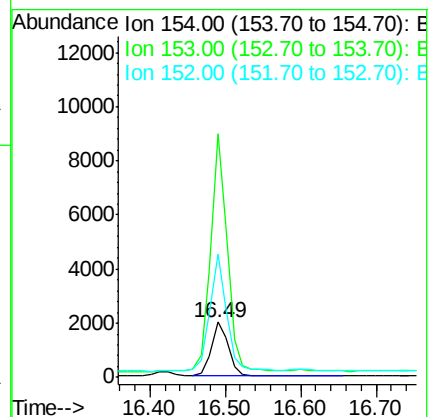
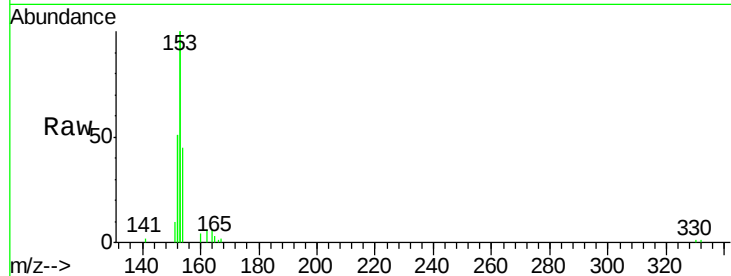
Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

Tot Ion:154 Resp: 3114

Ion	Ratio	Lower	Upper
154	100		
153	432.3	343.0	514.4
152	217.7	165.8	248.8



#12

Fluorene

Concen: 0.16 ng

RT: 17.74 min Scan# 2971

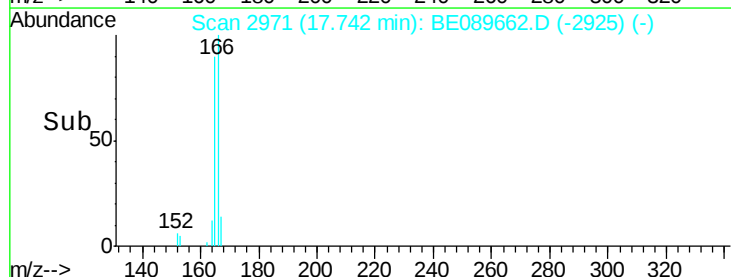
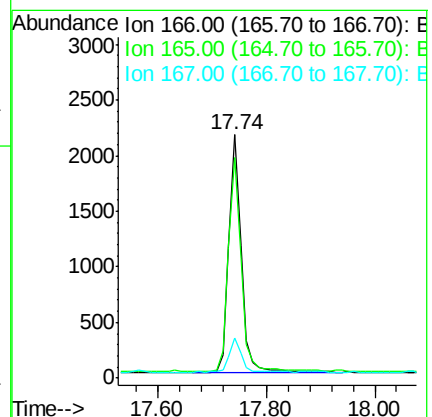
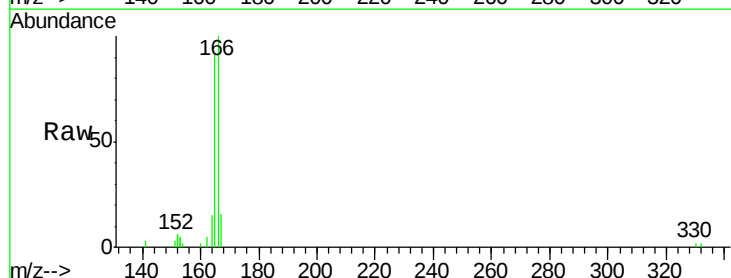
Delta R.T. -0.00 min

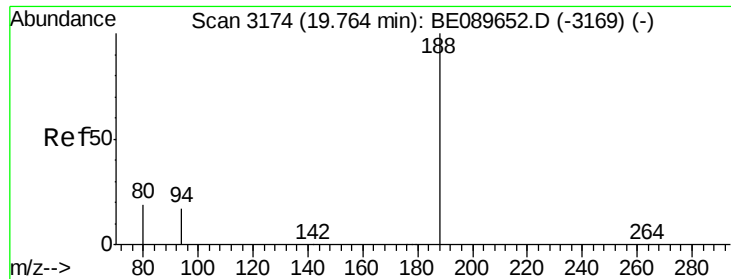
Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

Tgt Ion:166 Resp: 3391

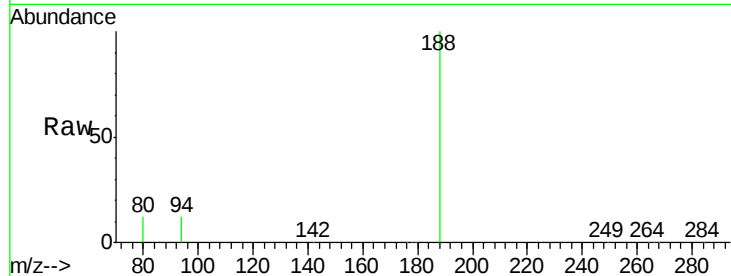
Ion	Ratio	Lower	Upper
166	100		
165	92.1	73.6	110.4
167	13.6	10.5	15.7



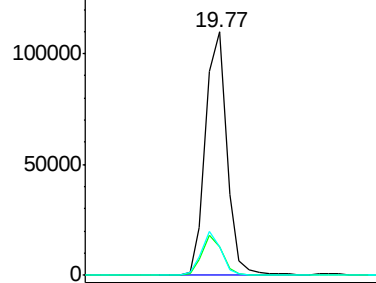


#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.01 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

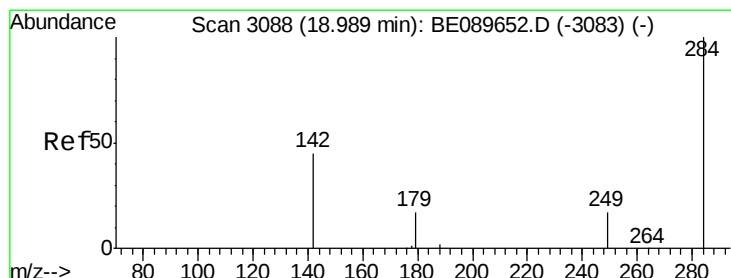
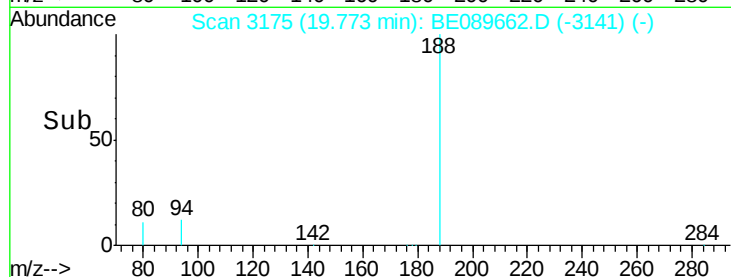
Tot Ion:188 Resp: 148119
Ion Ratio Lower Upper
188 100
94 11.6 13.8 20.8#
80 11.5 15.0 22.6#



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

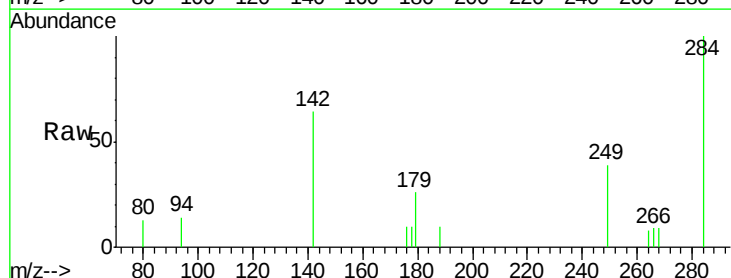


Time-->

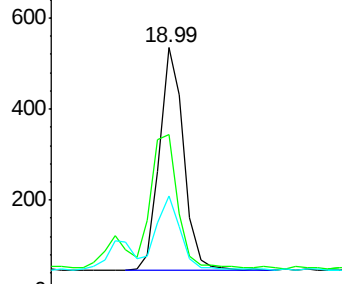


#14
Hexachlorobenzene
Concen: 0.17 ng
RT: 18.99 min Scan# 3088
Delta R.T. -0.00 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

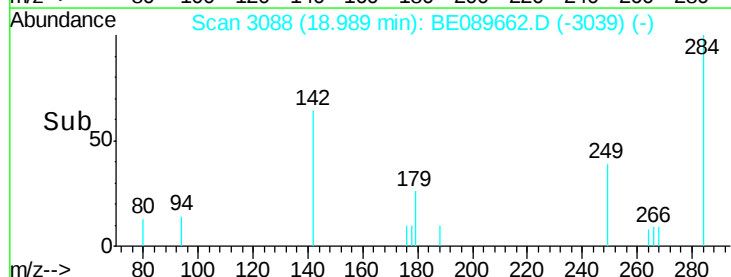
Tgt Ion:284 Resp: 693
Ion Ratio Lower Upper
284 100
142 64.9 55.0 82.6
249 33.9 26.1 39.1

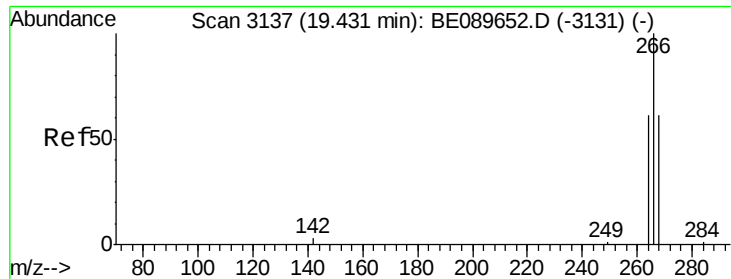


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



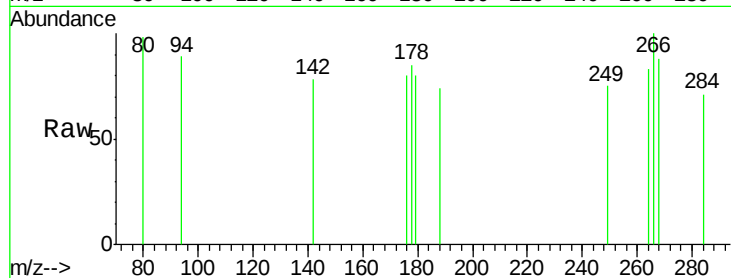
Time-->



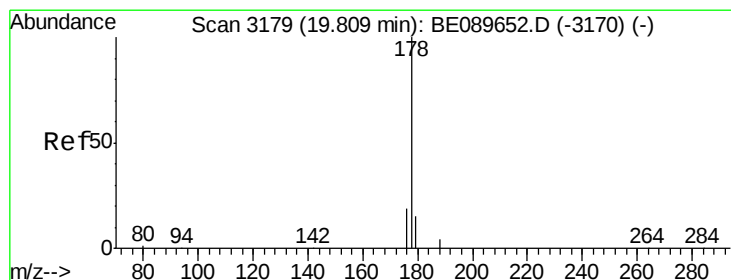
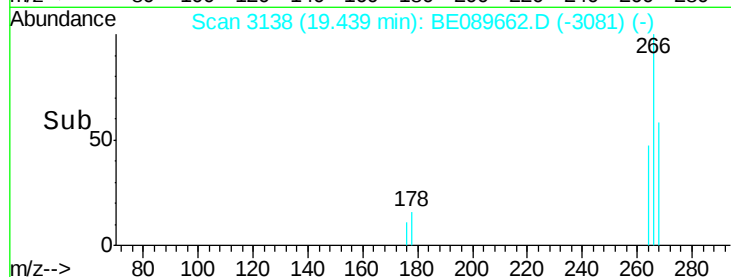
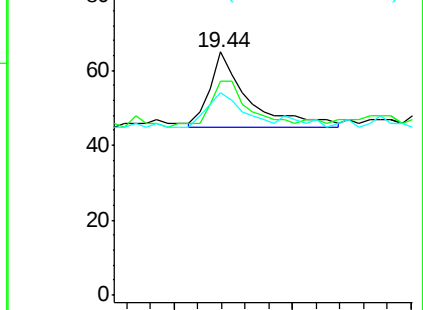


#15
 Pentachlorophenol
 Concen: 0.25 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.01 min
 Lab File: BE089662.D
 Acq: 24 Feb 2015 5:18

Tot Ion: 266 Resp: 45
 Ion Ratio Lower Upper
 266 100
 268 87.7 54.7 82.1#
 264 83.1 55.4 83.0#

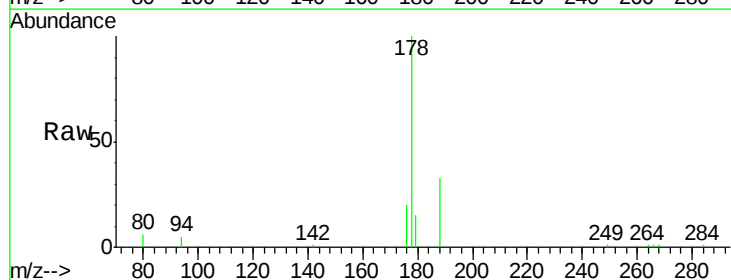


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

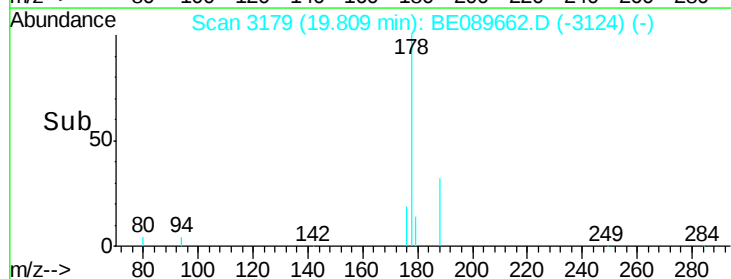
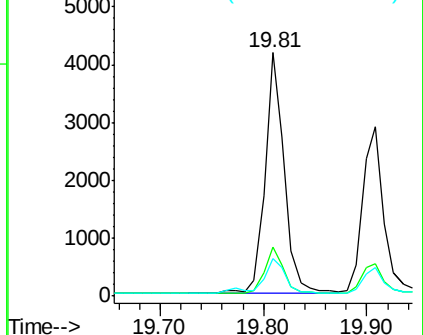


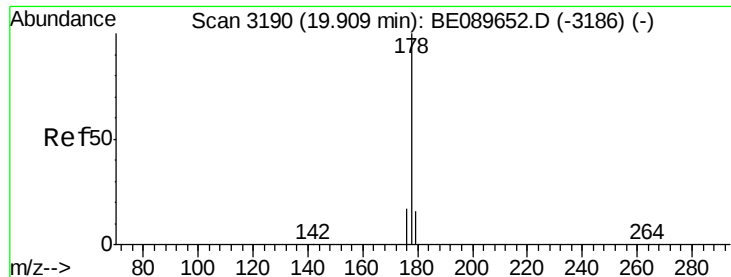
#16
 Phenanthrene
 Concen: 0.17 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: BE089662.D
 Acq: 24 Feb 2015 5:18

Tgt Ion: 178 Resp: 5418
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.3 22.9
 179 16.9 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: 0.15 ng

RT: 19.91 min Scan# 3190

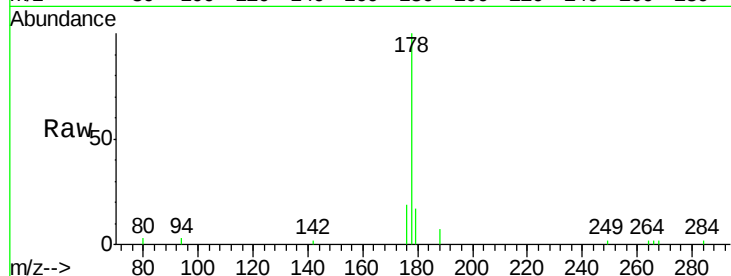
Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

Tot Ion:178 Resp: 4213

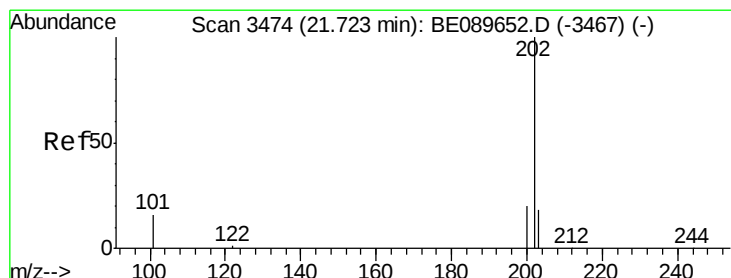
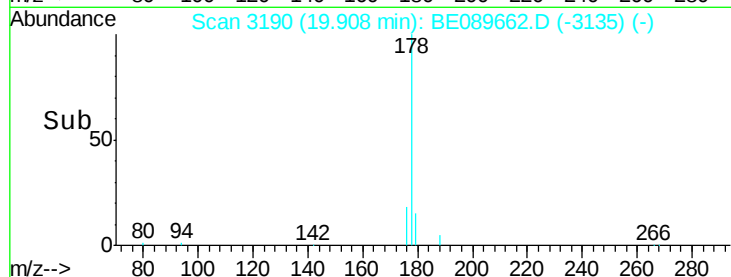
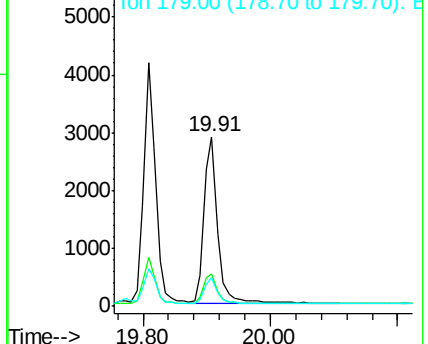
Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.3	21.5
179	14.5	12.1	18.1



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: 0.15 ng

RT: 21.72 min Scan# 3474

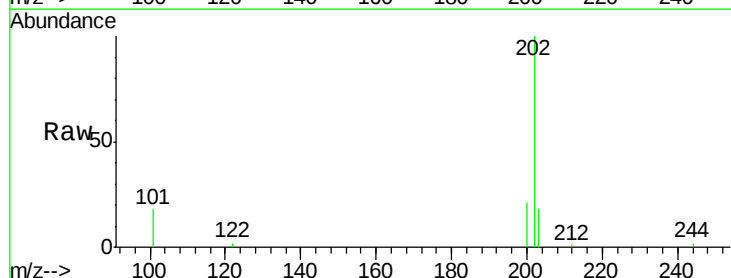
Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

Tgt Ion:202 Resp: 3950

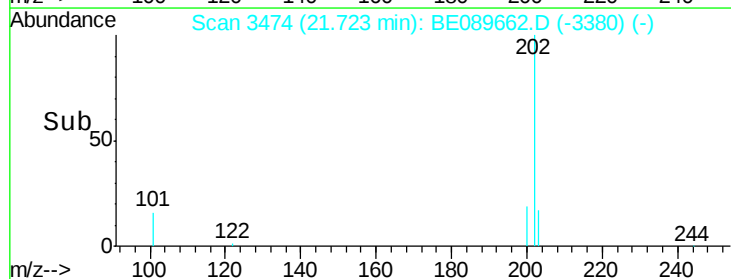
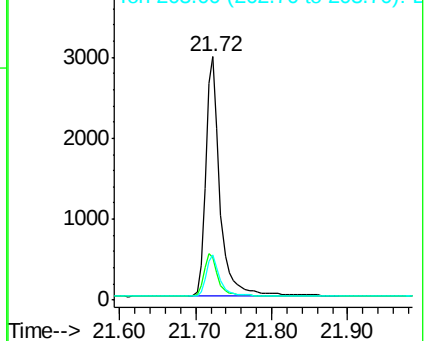
Ion	Ratio	Lower	Upper
202	100		
101	18.2	14.9	22.3
203	16.6	13.7	20.5

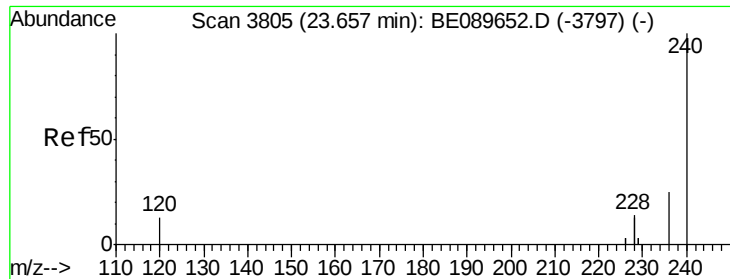


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.66 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

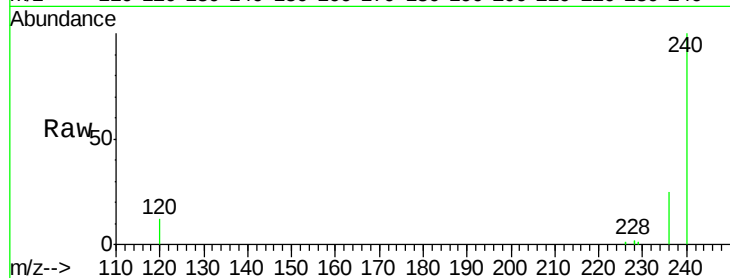
Tot Ion:240 Resp: 112014

Ion Ratio Lower Upper

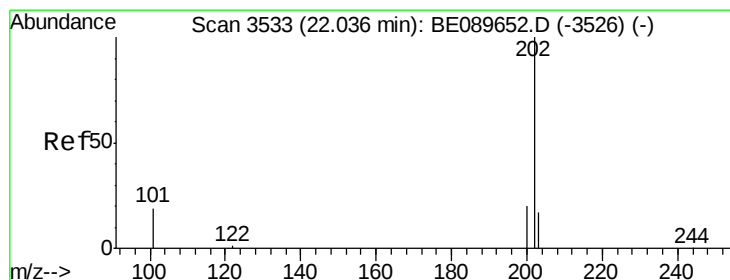
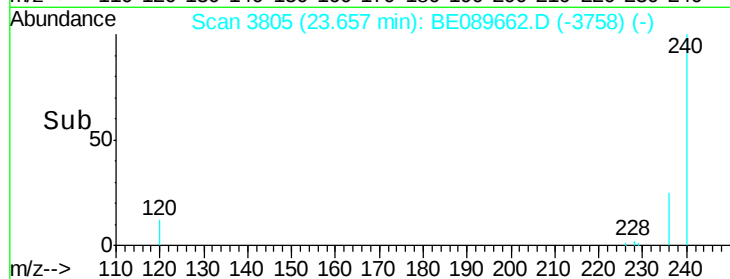
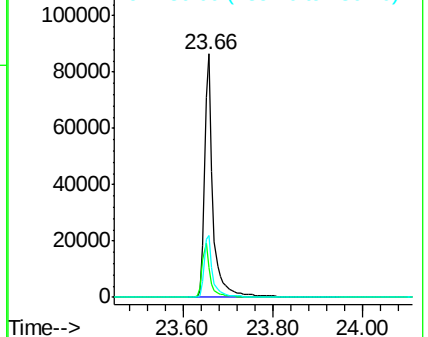
240 100

120 12.2 10.6 15.8

236 25.3 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: 0.15 ng

RT: 22.04 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

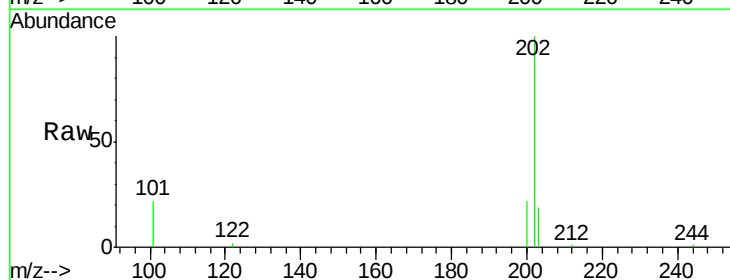
Tgt Ion:202 Resp: 4239

Ion Ratio Lower Upper

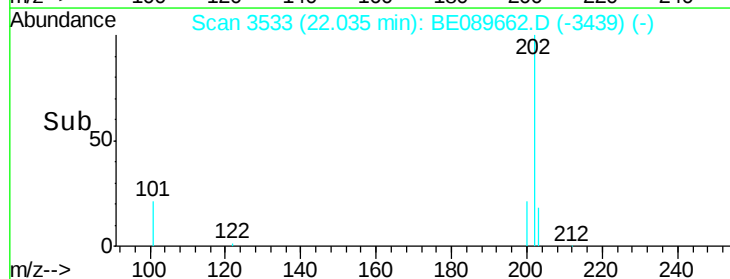
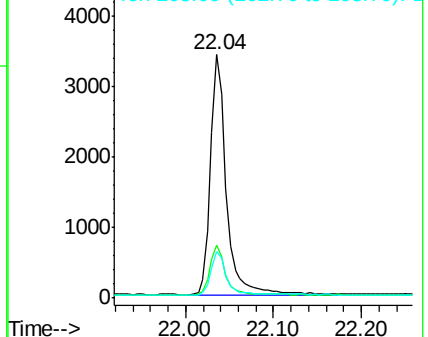
202 100

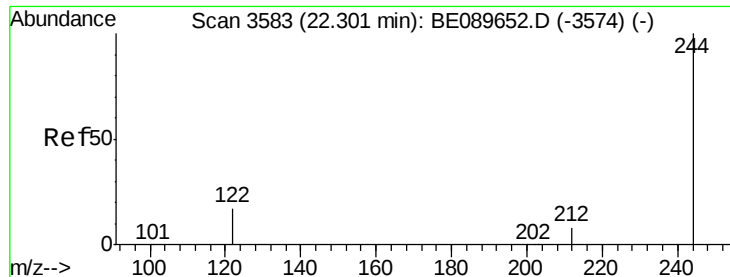
200 20.0 16.5 24.7

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: 9.87 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

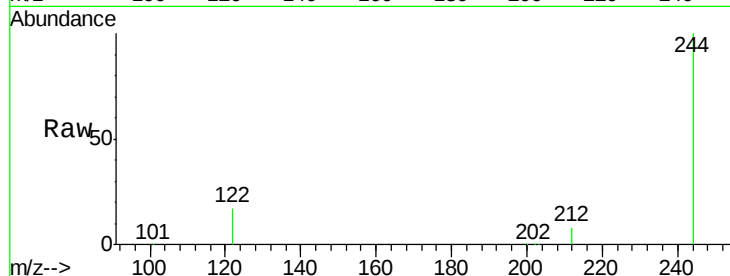
Tot Ion:244 Resp: 157821

Ion Ratio Lower Upper

244 100

212 8.1 6.6 10.0

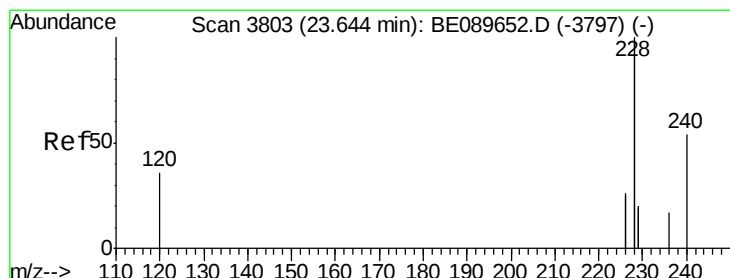
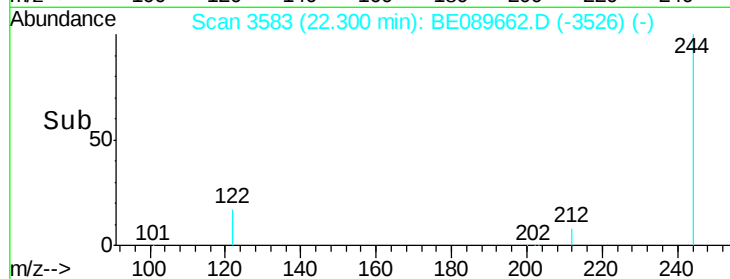
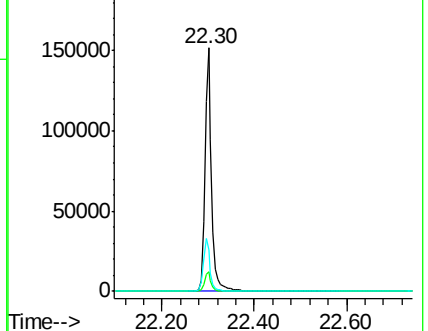
122 16.8 13.7 20.5



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: 0.15 ng

RT: 23.64 min Scan# 3803

Delta R.T. 0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

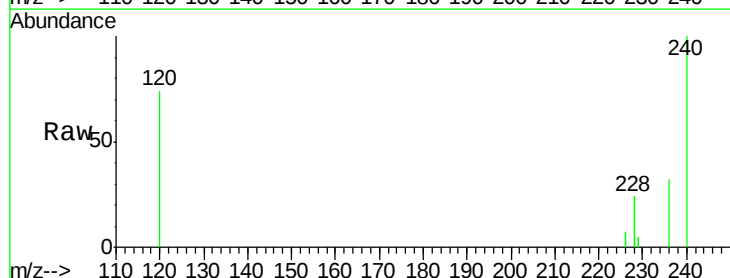
Tgt Ion:228 Resp: 11792

Ion Ratio Lower Upper

228 100

226 28.1 20.9 31.3

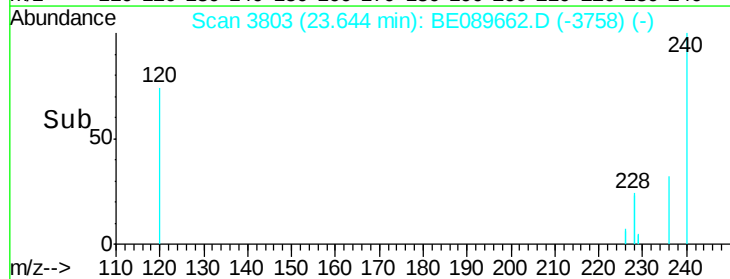
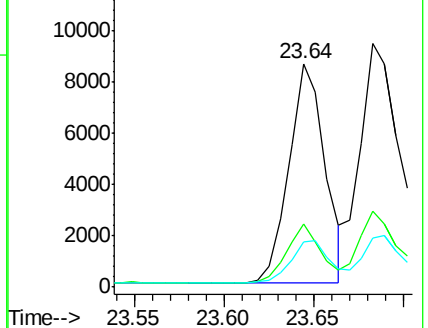
229 20.3 15.8 23.6

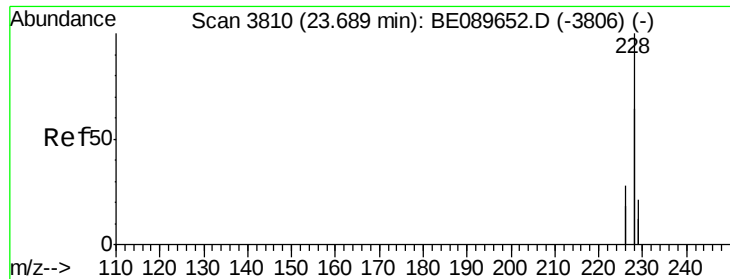


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.18 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.01 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

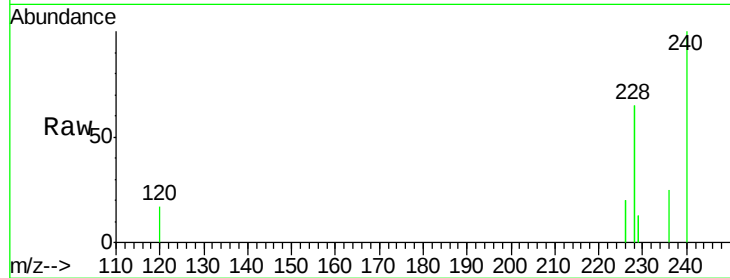
Tot Ion:228 Resp: 19025

Ion Ratio Lower Upper

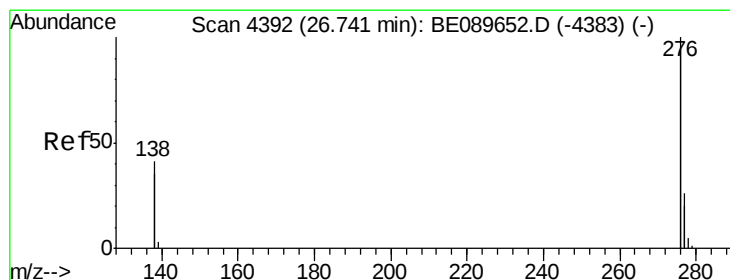
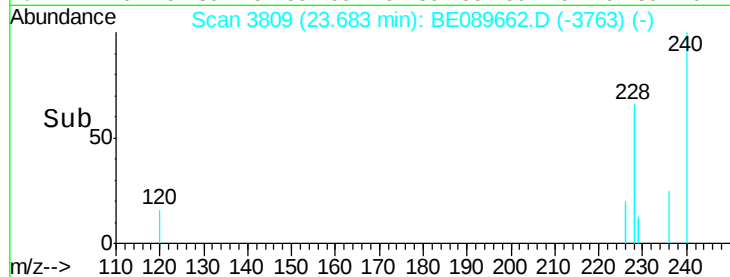
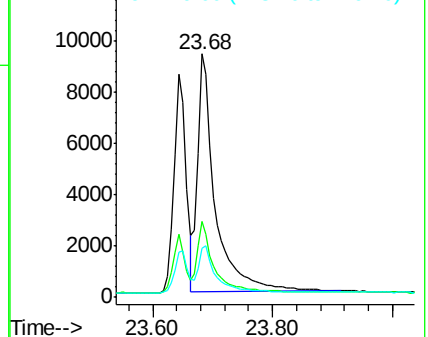
228 100

226 31.2 22.0 33.0

229 20.2 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# 4392

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

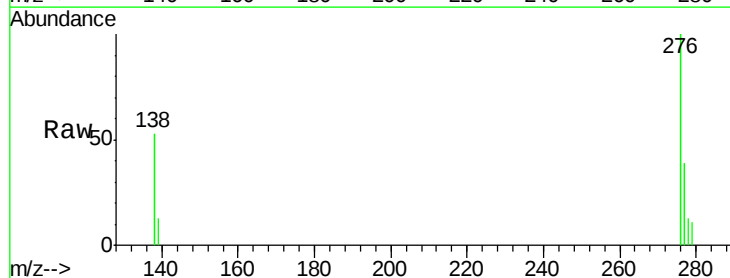
Tgt Ion:276 Resp: 3131

Ion Ratio Lower Upper

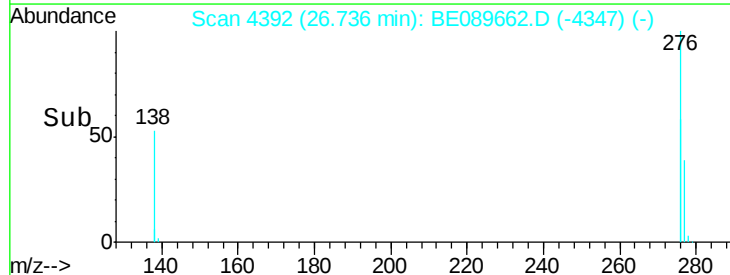
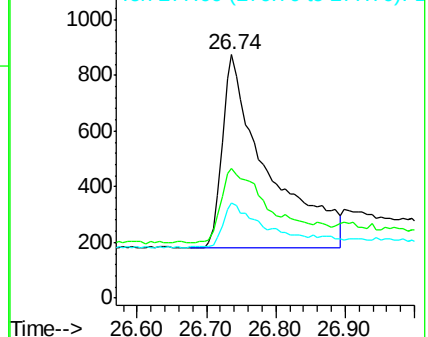
276 100

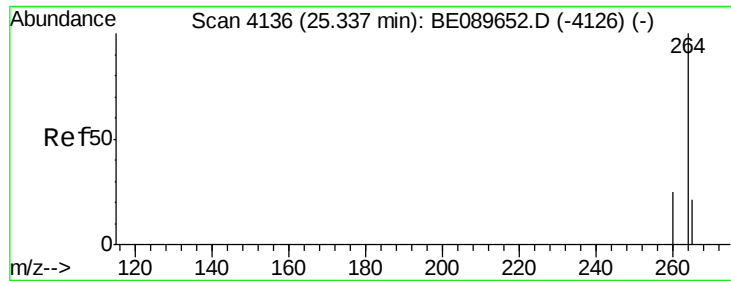
138 41.2 36.2 54.4

277 21.4 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

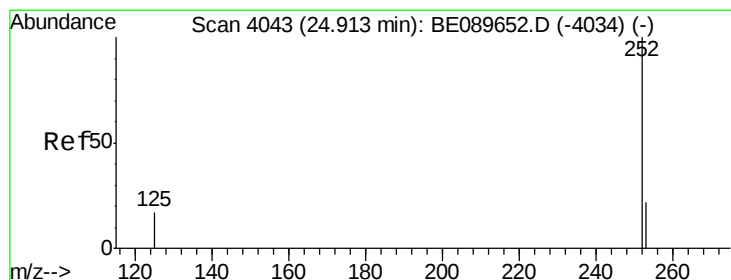
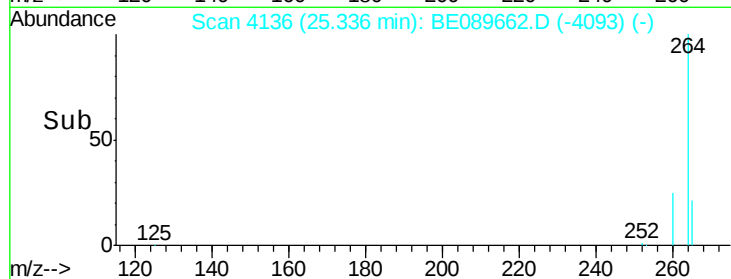
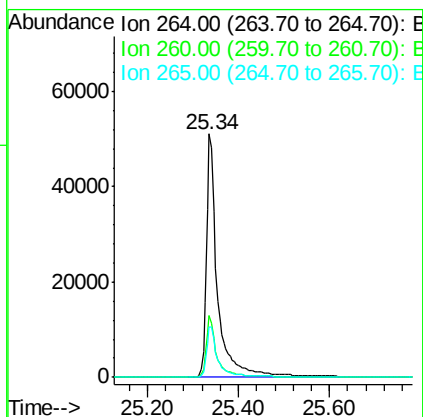
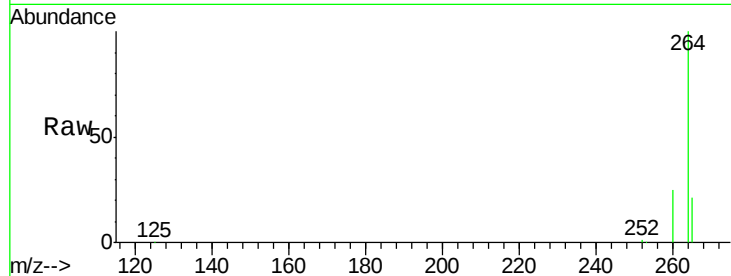




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4136
Delta R.T. -0.00 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

Tot Ion:264 Resp: 86565

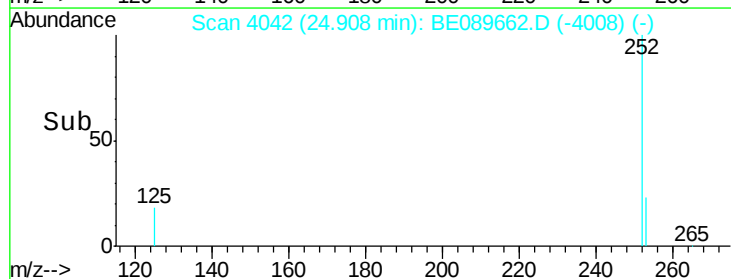
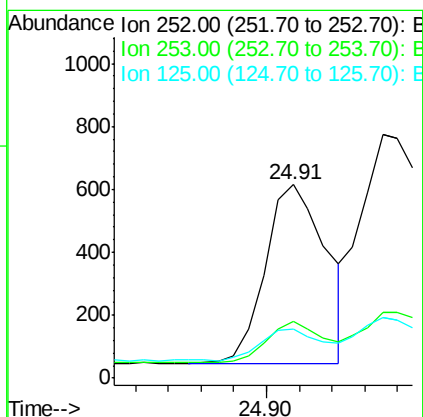
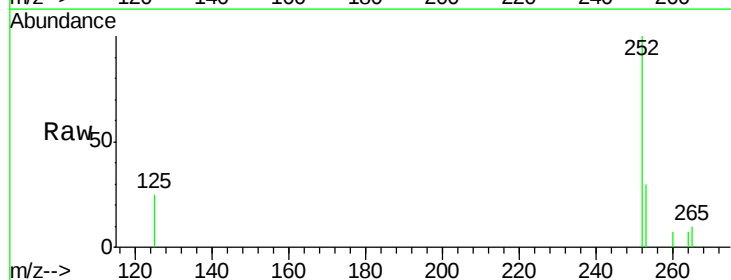
Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.0	30.0
265	20.8	16.8	25.2

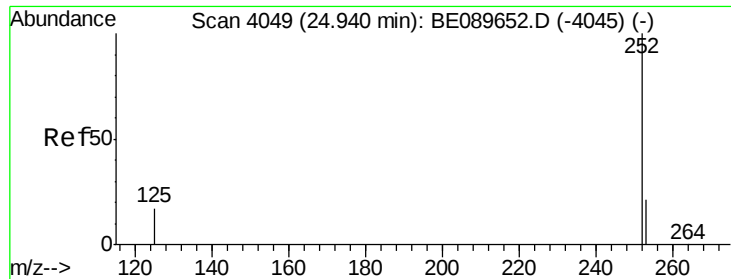


#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4042
Delta R.T. -0.00 min
Lab File: BE089662.D
Acq: 24 Feb 2015 5:18

Tgt Ion:252 Resp: 736

Ion	Ratio	Lower	Upper
252	100		
253	29.6	18.3	27.5#
125	25.4	14.6	22.0#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 24.94 min Scan# 4048

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

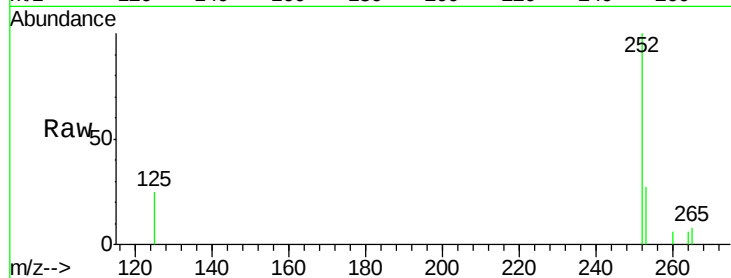
Tot Ion: 252 Resp: 2211

Ion Ratio Lower Upper

252 100

253 27.3 17.8 26.8#

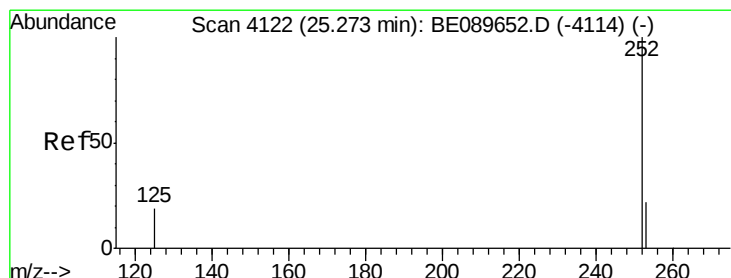
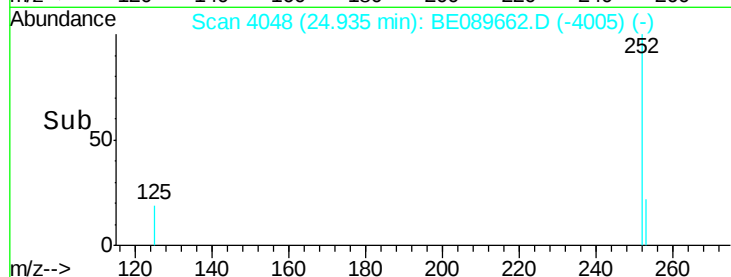
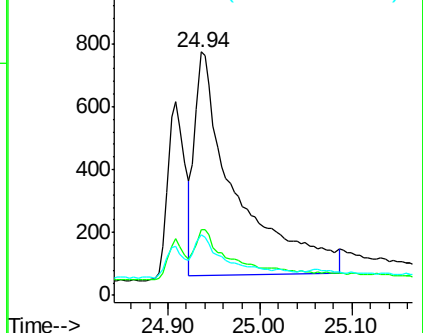
125 25.1 14.3 21.5#



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: 0.38 ng

RT: 25.27 min Scan# 4121

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

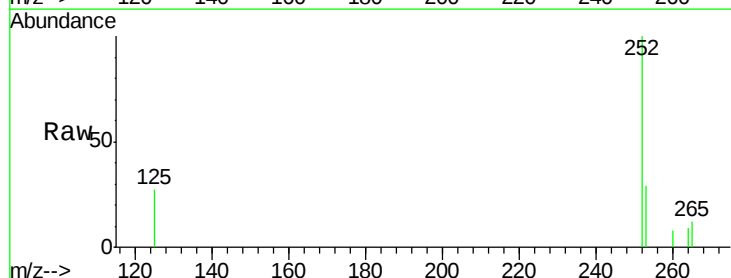
Tgt Ion: 252 Resp: 892

Ion Ratio Lower Upper

252 100

253 29.2 18.4 27.6#

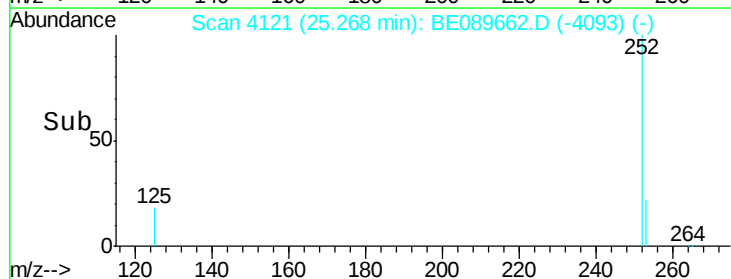
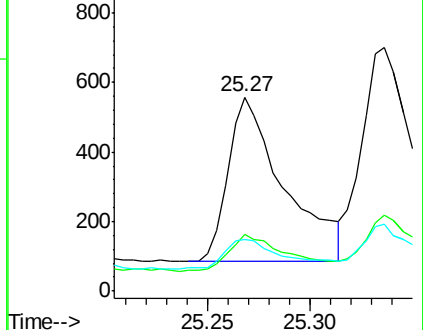
125 26.9 15.9 23.9#

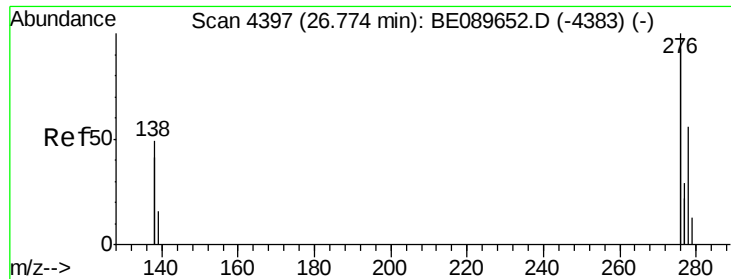


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

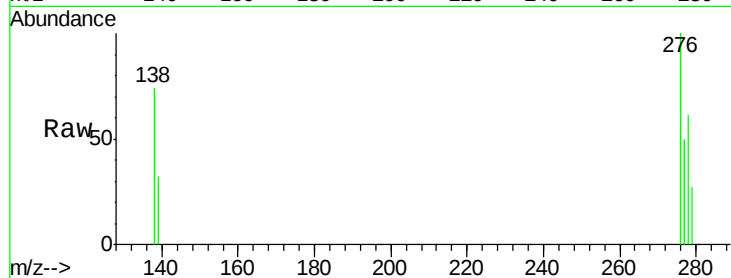
Tot Ion:278 Resp: 486

Ion Ratio Lower Upper

278 100

139 52.9 25.4 38.2#

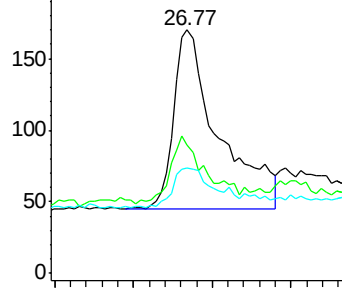
279 43.5 20.0 30.0#



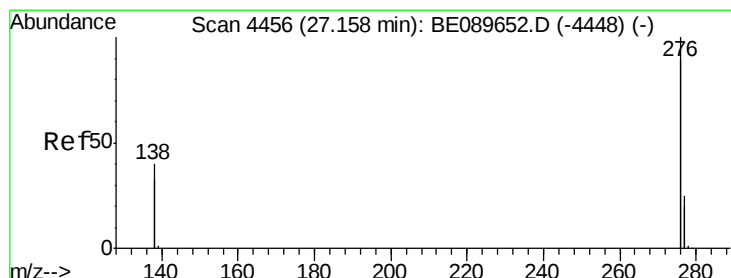
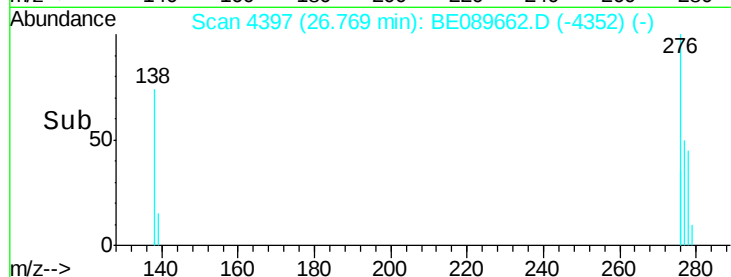
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time--> 26.60 26.70 26.80 26.90



#30

Benzo(g,h,i)perylene

Concen: 0.30 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.00 min

Lab File: BE089662.D

Acq: 24 Feb 2015 5:18

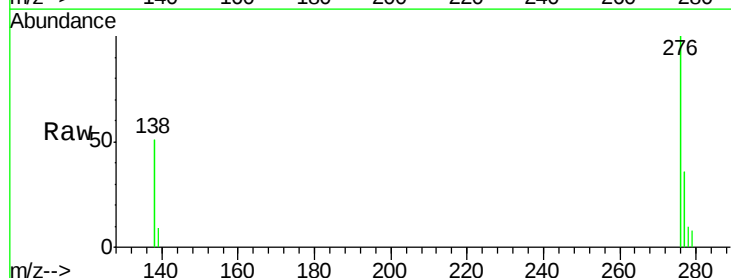
Tgt Ion:276 Resp: 5238

Ion Ratio Lower Upper

276 100

277 35.7 20.2 30.2#

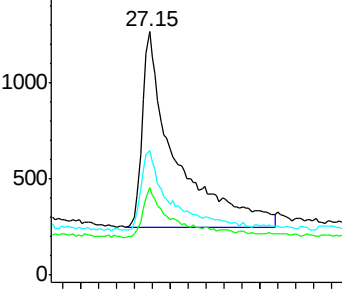
138 51.3 32.4 48.6#



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



Time--> 27.00 27.20 27.40

