

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089660.D
 Acq On : 24 Feb 2015 4:01
 Operator : TP/JJ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 05:46:33 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

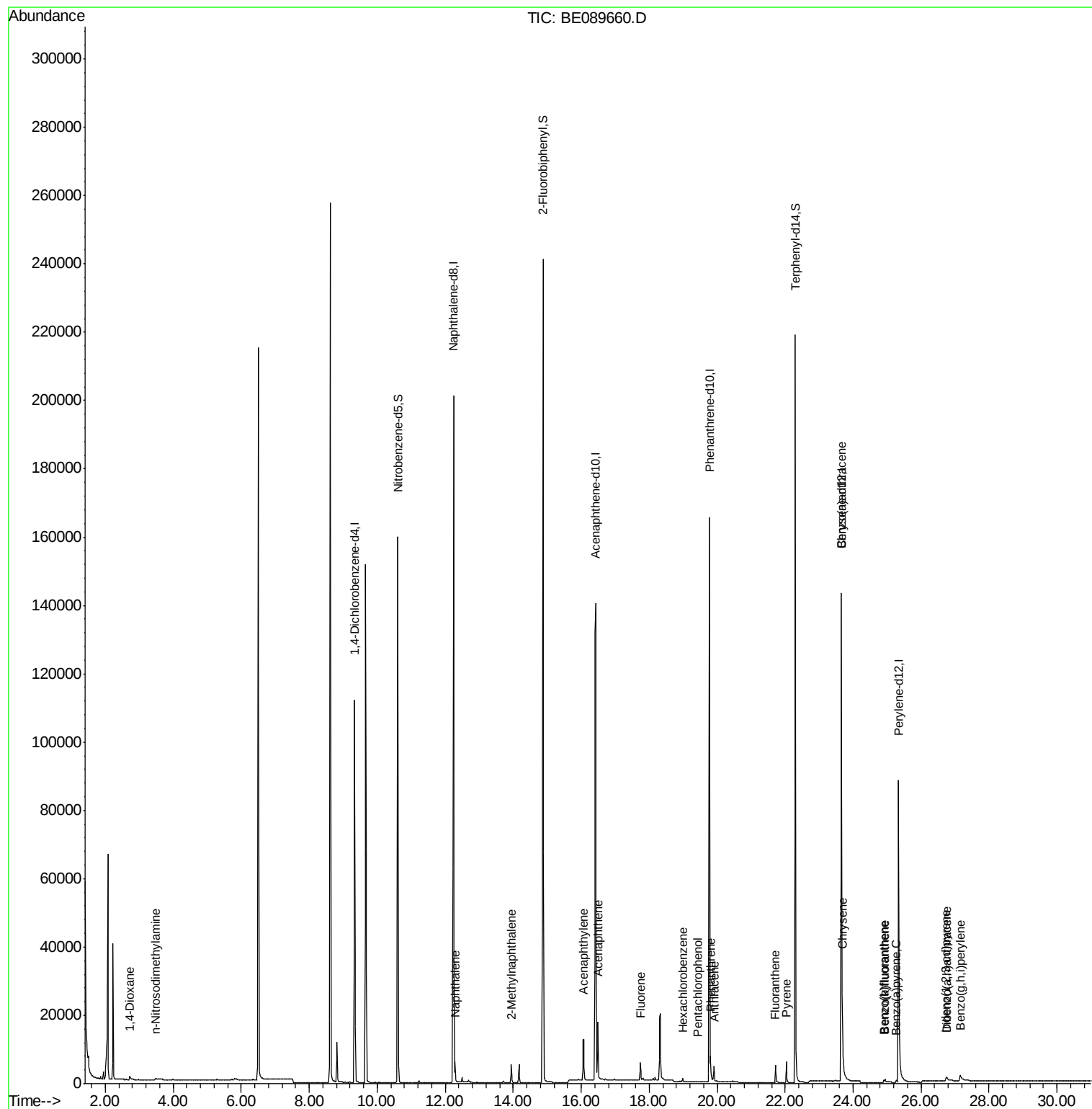
Response via : Initial Calibration

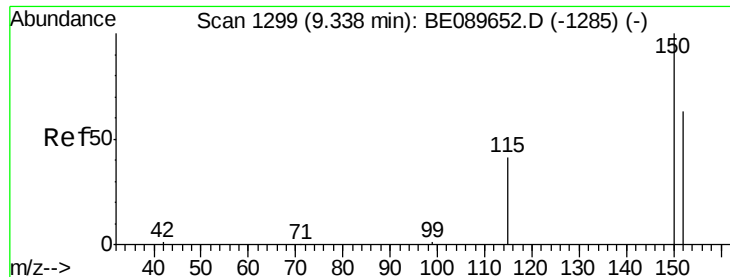
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	48967	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	225074	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	93940	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	168333	5.00	ng	0.00
19) Chrysene-d12	23.66	240	125451	5.00	ng	0.00
25) Perylene-d12	25.34	264	96318	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	110504	8.14	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	220256	10.43	ng	0.00
21) Terphenyl-d14	22.30	244	178907	9.99	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.72	88	966	0.15	ng	# 82
3) n-Nitrosodimethylamine	3.47	42	863	0.15	ng	96
6) Naphthalene	12.29	128	6970	0.15	ng	98
7) 2-Methylnaphthalene	13.95	142	3819	0.15	ng	97
10) Acenaphthylene	16.07	152	18731	0.14	ng	100
11) Acenaphthene	16.49	154	3361	0.15	ng	96
12) Fluorene	17.74	166	3644	0.15	ng	100
14) Hexachlorobenzene	18.99	284	748	0.16	ng	97
15) Pentachlorophenol	19.44	266	49	0.24	ng	# 80
16) Phenanthrene	19.81	178	5826	0.16	ng	97
17) Anthracene	19.91	178	4556	0.15	ng	99
18) Fluoranthene	21.72	202	4253	0.14	ng	99
20) Pyrene	22.03	202	4632	0.15	ng	99
22) Benzo(a)anthracene	23.64	228	12933	0.15	ng	98
23) Chrysene	23.68	228	20210	0.17	ng	96
24) Indeno(1,2,3-cd)pyrene	26.73	276	3268	0.39	ng	# 89
26) Benzo(b)fluoranthene	24.91	252	826	0.42	ng	# 85
27) Benzo(k)fluoranthene	24.94	252	2446m	0.12	ng	
28) Benzo(a)pyrene	25.27	252	952	0.37	ng	# 87
29) Dibenzo(a,h)anthracene	26.77	278	478	0.39	ng	# 67
30) Benzo(g,h,i)perylene	27.15	276	4487	0.28	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: BE089660.D

Acq: 24 Feb 2015 4:01

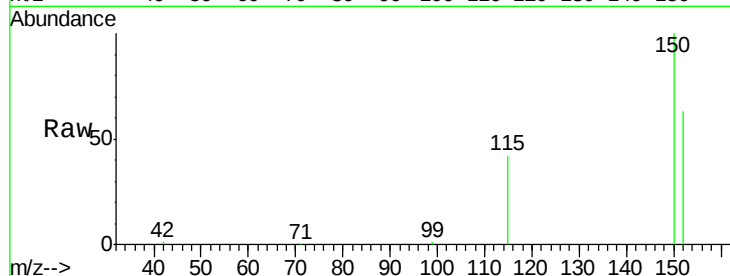
Tot Ion: 152 Resp: 48967

Ion Ratio Lower Upper

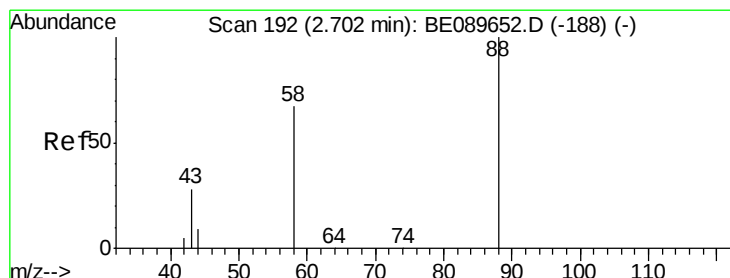
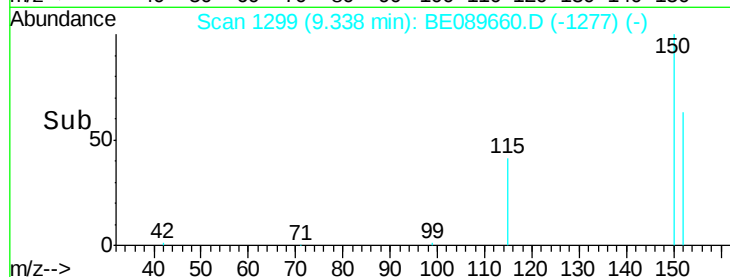
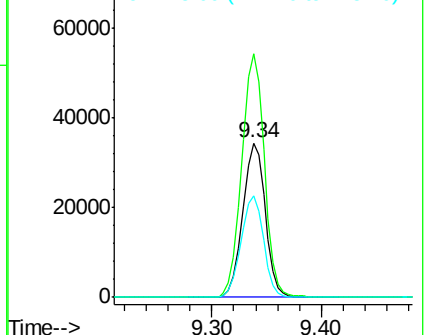
152 100

150 157.5 127.0 190.6

115 65.4 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: BE089660.D

Acq: 24 Feb 2015 4:01

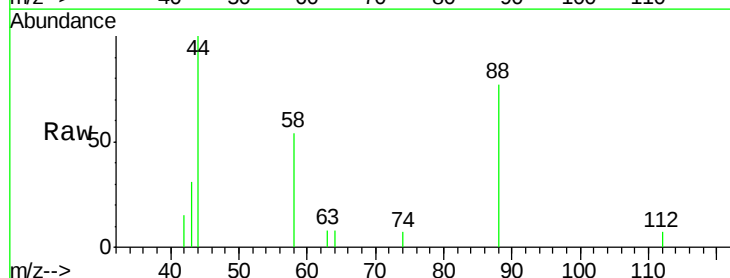
Tgt Ion: 88 Resp: 966

Ion Ratio Lower Upper

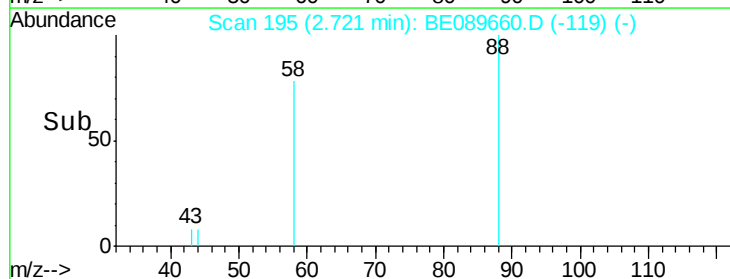
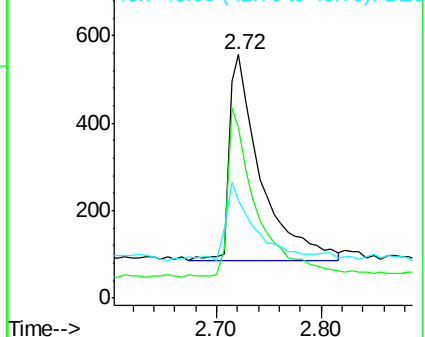
88 100

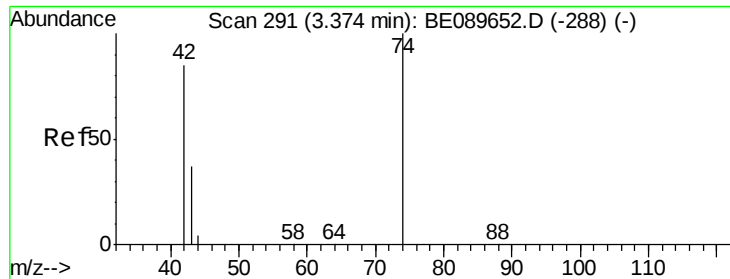
58 78.4 61.8 92.6

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

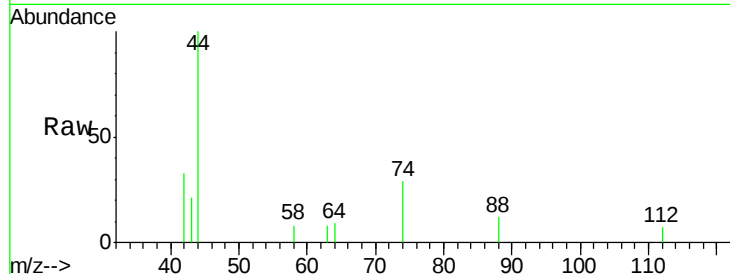




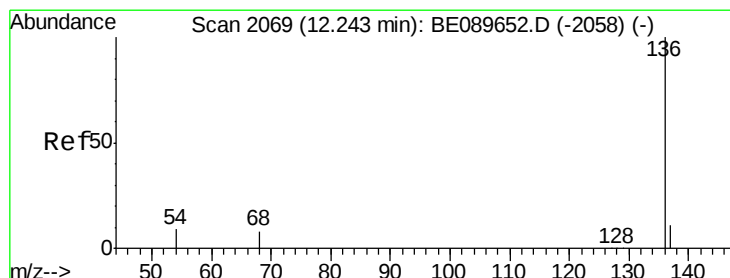
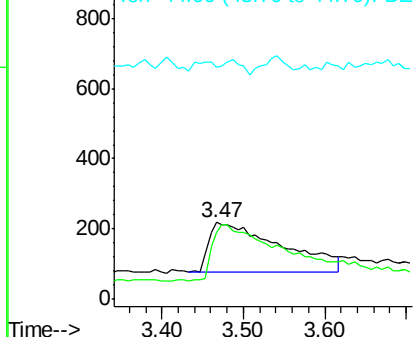
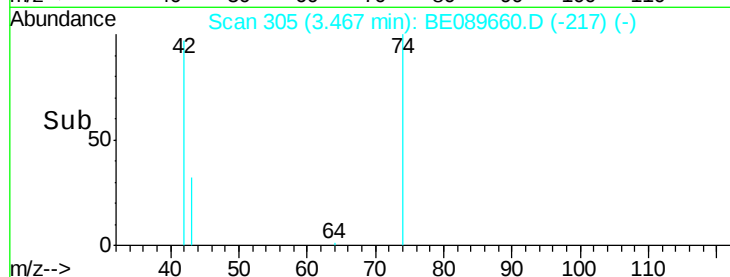
#3

n-Nitrosodimethylamine
Concen: 0.15 ng
RT: 3.47 min Scan# 305
Delta R.T. 0.09 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

Tot Ion: 42 Resp: 863
Ion Ratio Lower Upper
42 100
74 111.6 92.5 138.7
44 5.2 4.9 7.3



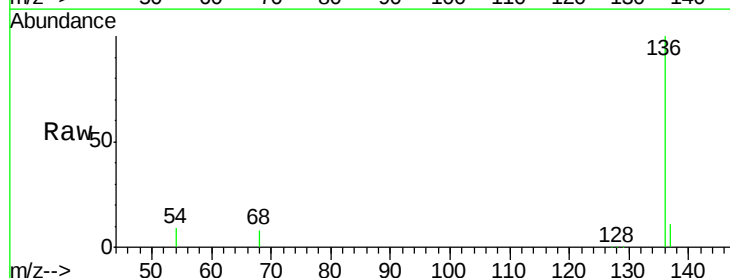
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



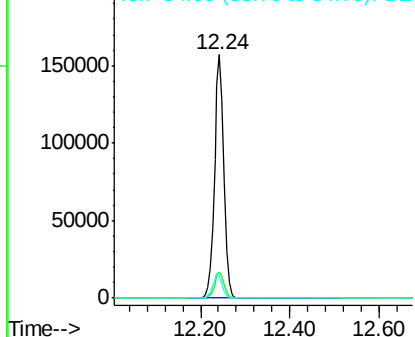
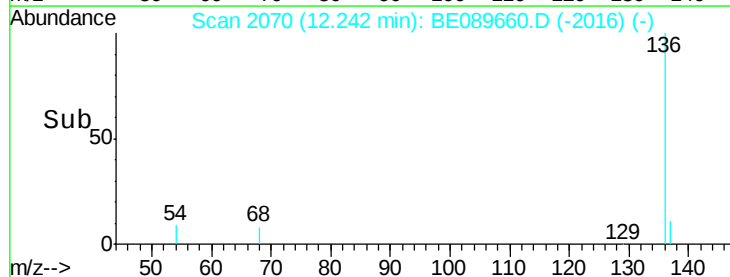
#4

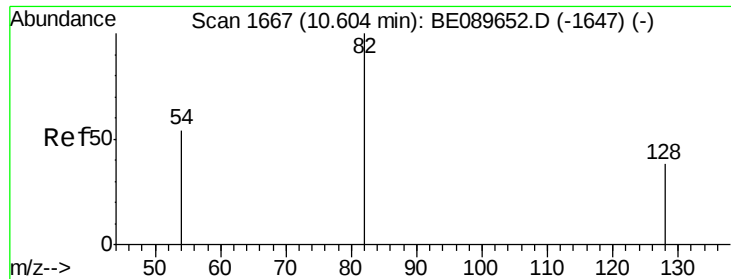
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

Tgt Ion: 136 Resp: 225074
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 9.3 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: 8.14 ng

RT: 10.60 min Scan# 1668

Delta R.T. 0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

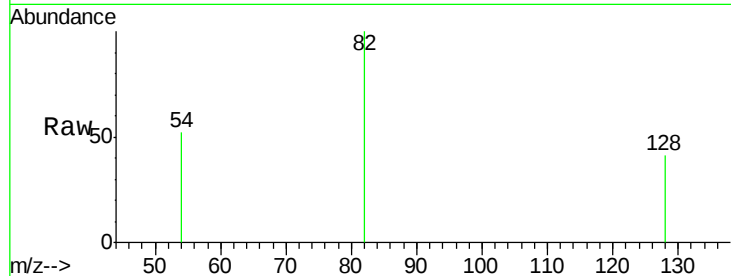
Tot Ion: 82 Resp: 110504

Ion Ratio Lower Upper

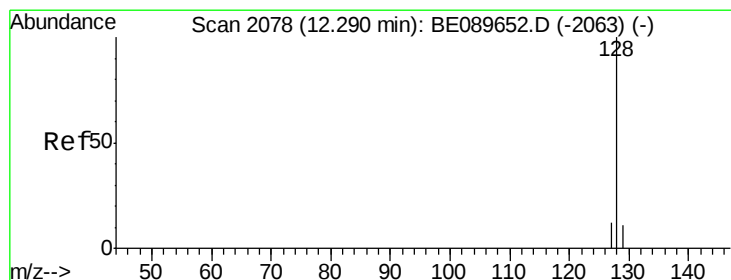
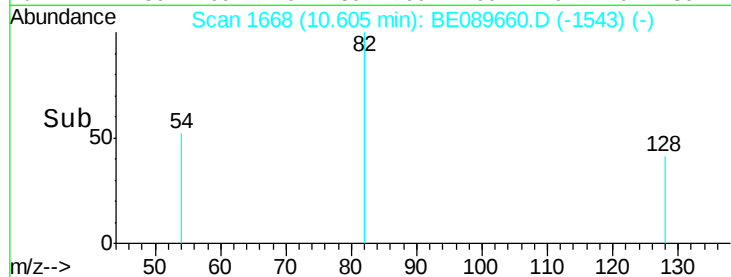
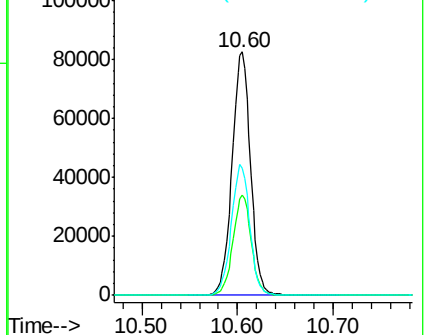
82 100

128 41.3 31.0 46.4

54 52.5 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: 0.15 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

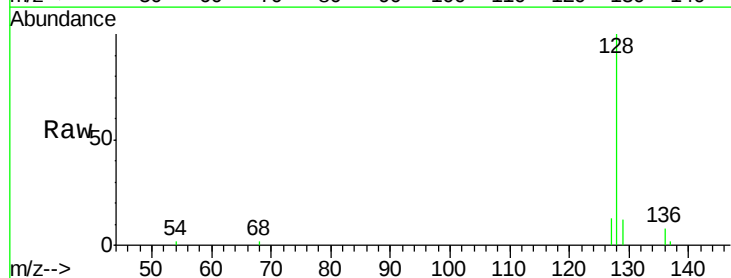
Tgt Ion: 128 Resp: 6970

Ion Ratio Lower Upper

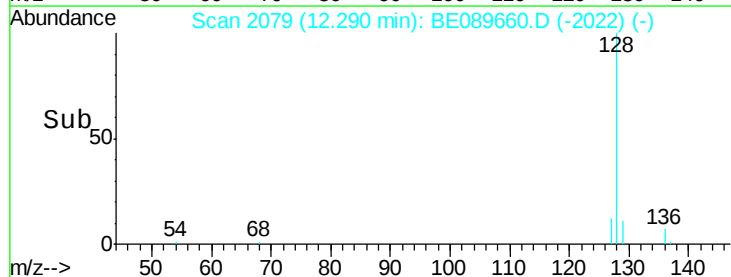
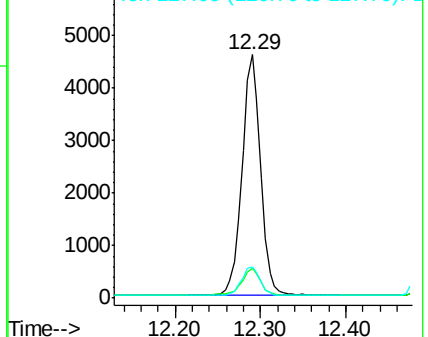
128 100

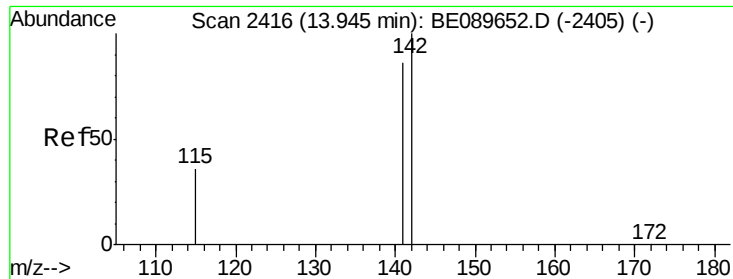
129 12.2 8.8 13.2

127 12.6 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# 2418

Delta R.T. 0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

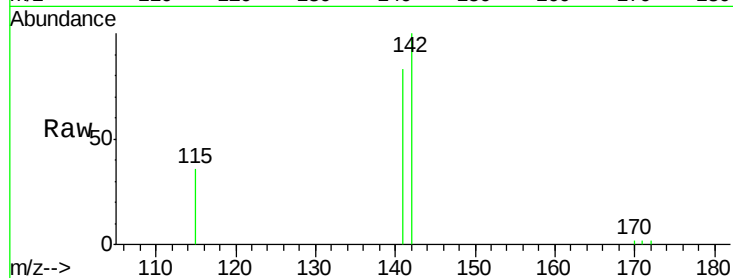
Tot Ion:142 Resp: 3819

Ion Ratio Lower Upper

142 100

141 82.8 68.6 103.0

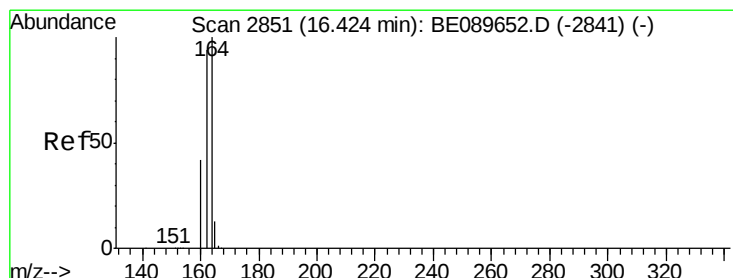
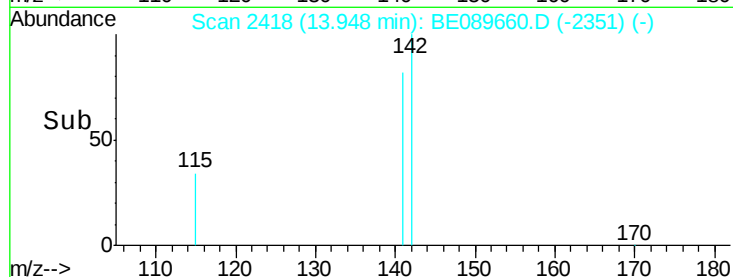
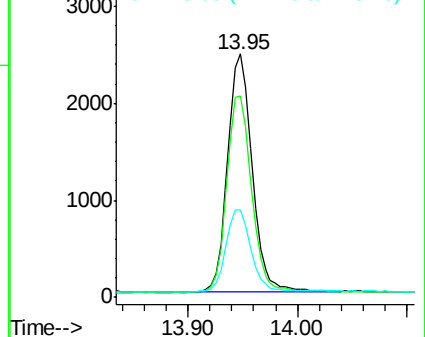
115 35.8 29.0 43.6



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# 2853

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

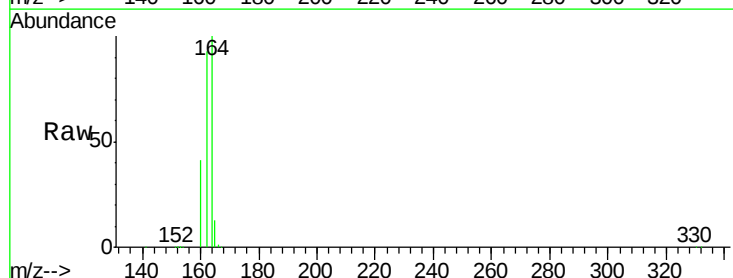
Tgt Ion:164 Resp: 93940

Ion Ratio Lower Upper

164 100

162 92.9 75.4 113.2

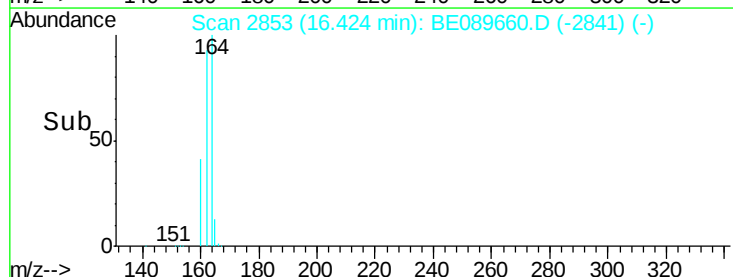
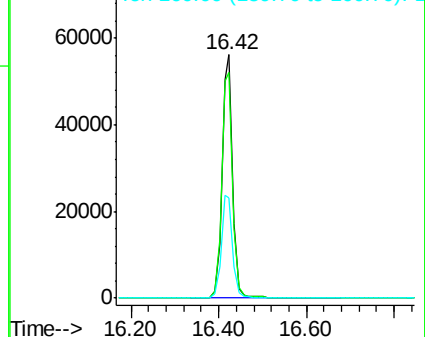
160 41.3 33.7 50.5

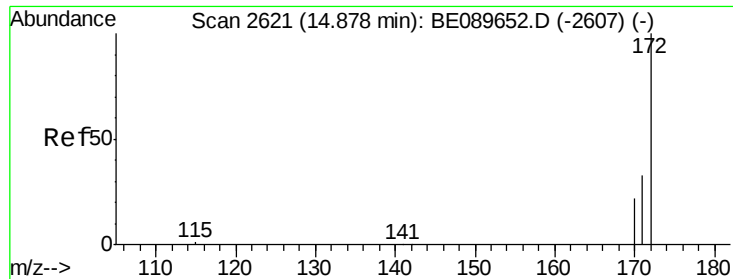


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

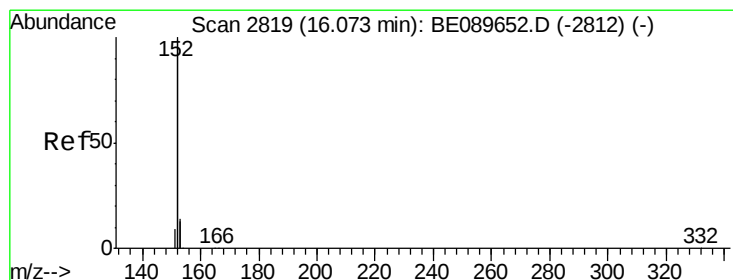
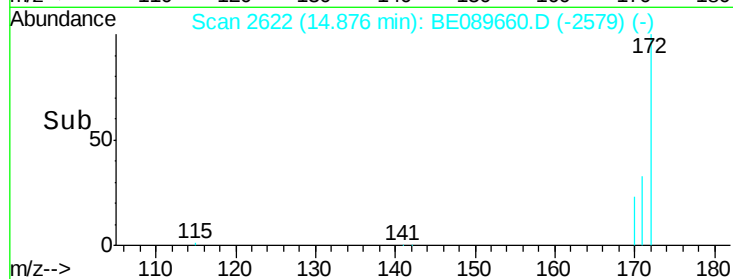
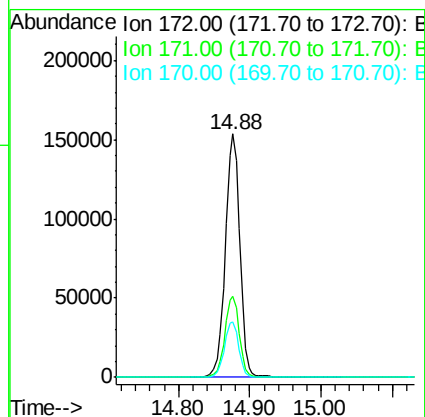
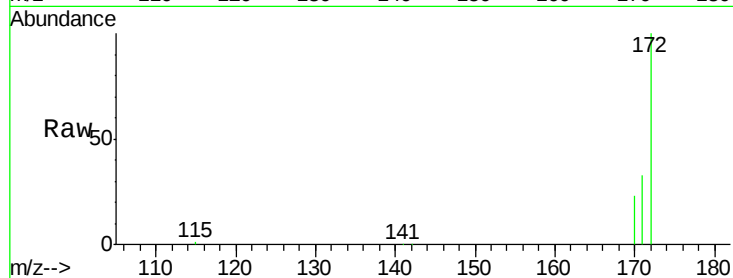
Ion 160.00 (159.70 to 160.70): E





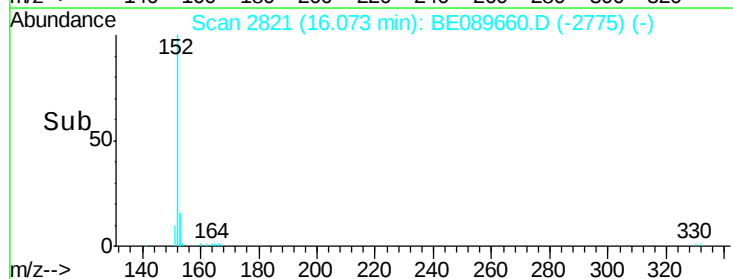
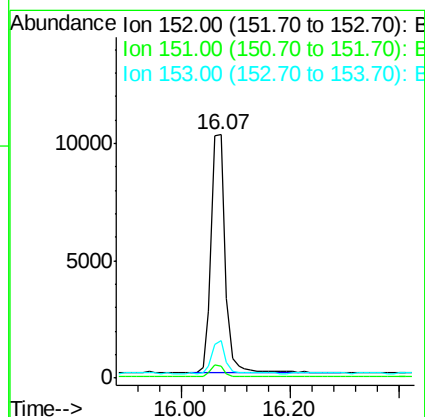
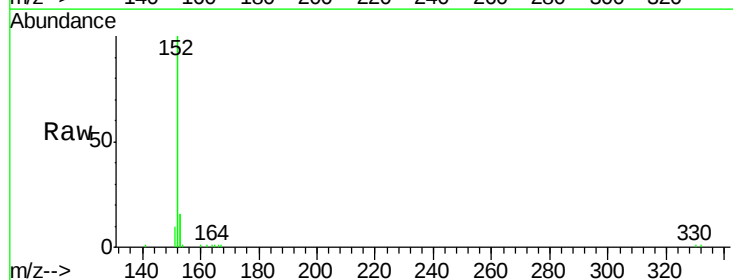
#9
2-Fluorobiphenyl
Concen: 10.43 ng
RT: 14.88 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

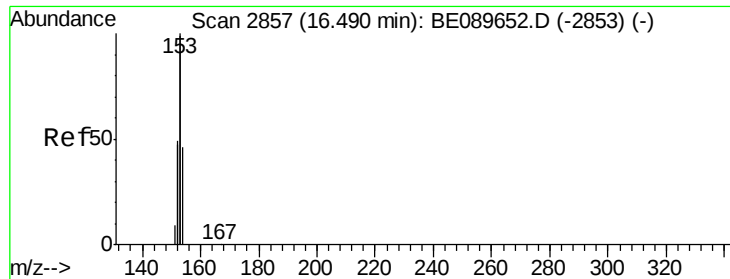
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.4	26.2	39.4
170	22.8	17.7	26.5



#10
Acenaphthylene
Concen: 0.14 ng
RT: 16.07 min Scan# 2821
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.7	3.8	5.6
153	13.0	10.4	15.6





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

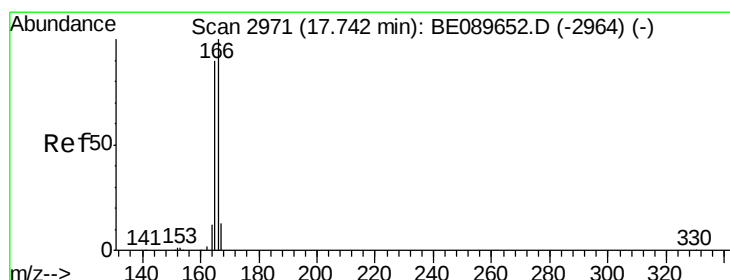
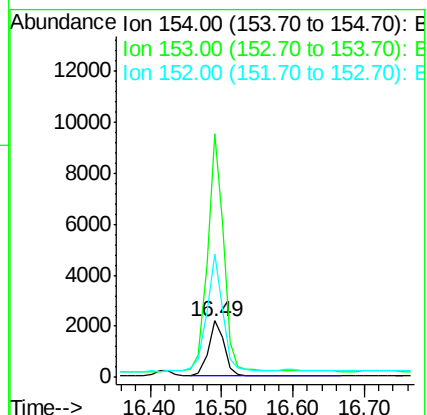
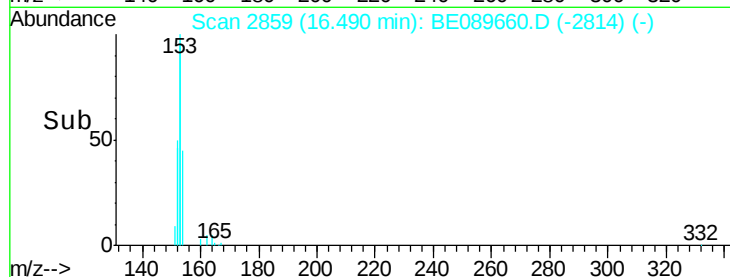
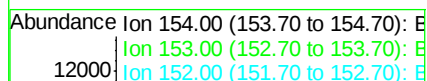
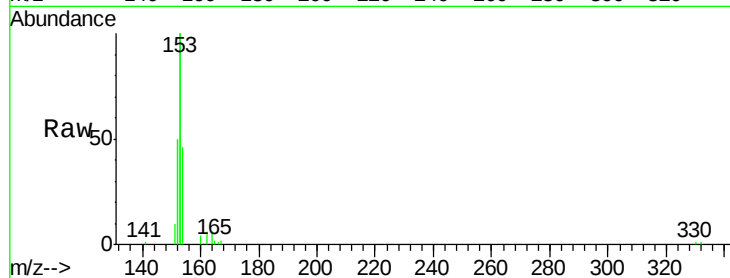
Tot Ion:154 Resp: 3361

Ion Ratio Lower Upper

154 100

153 438.1 343.0 514.4

152 215.6 165.8 248.8



#12

Fluorene

Concen: 0.15 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

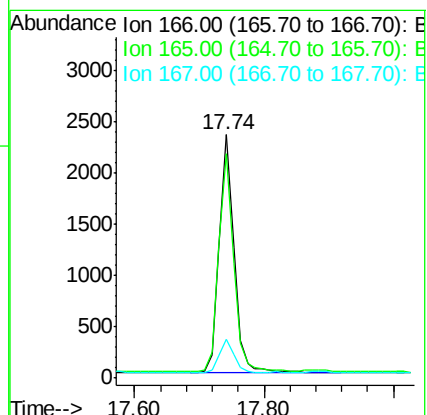
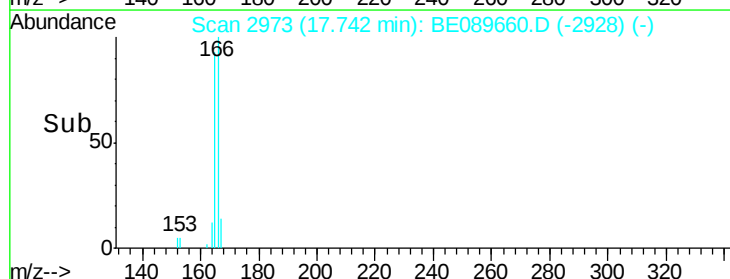
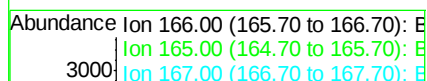
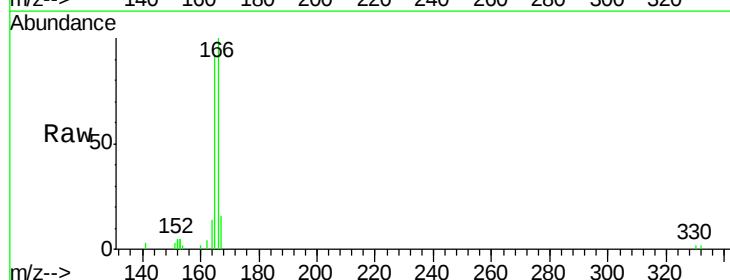
Tgt Ion:166 Resp: 3644

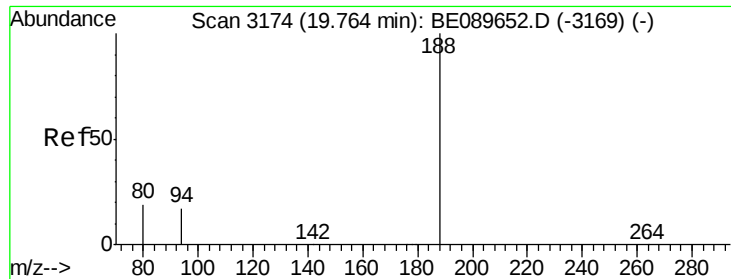
Ion Ratio Lower Upper

166 100

165 91.8 73.6 110.4

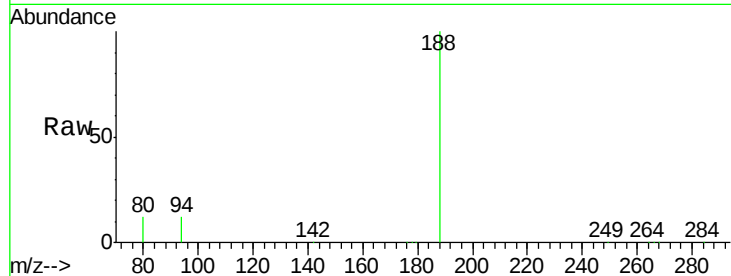
167 14.1 10.5 15.7





#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3177
Delta R.T. 0.01 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

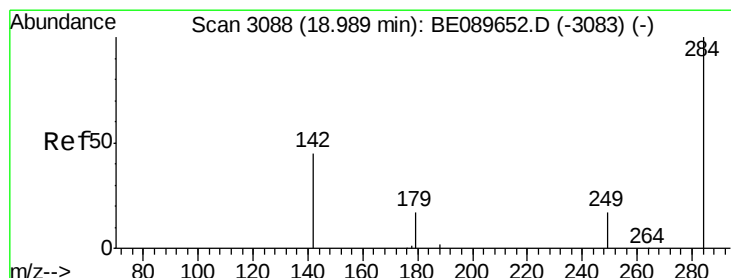
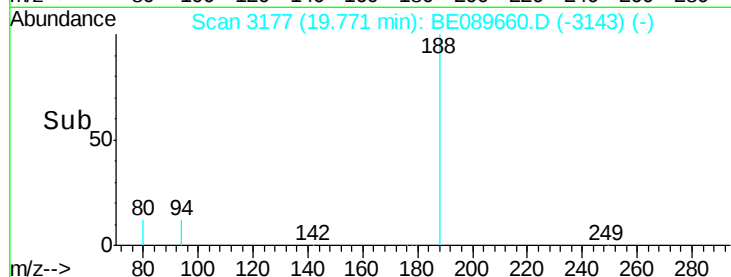
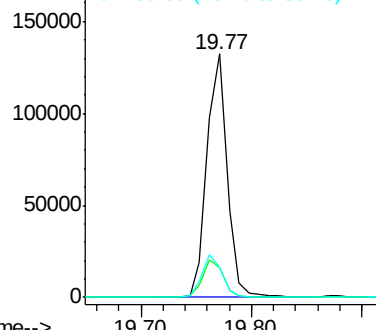
Tot Ion	Ratio	Lower	Upper
188	100		
94	12.2	13.8	20.8#
80	12.5	15.0	22.6#



Abundance Ion 188.00 (187.70 to 188.70): E

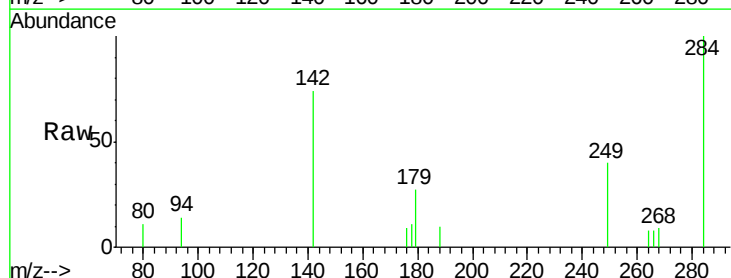
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

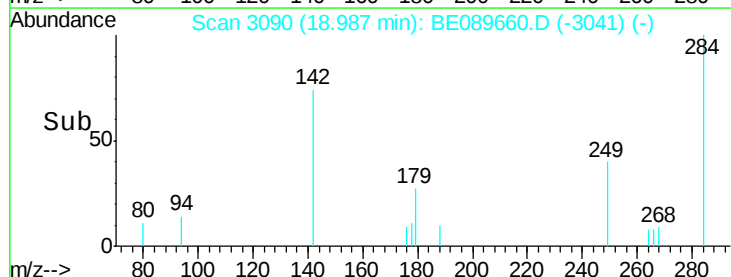
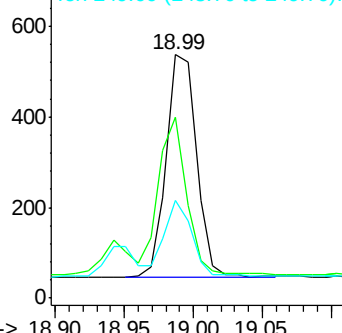
Tgt Ion	Ratio	Lower	Upper
284	100		
142	66.2	55.0	82.6
249	30.3	26.1	39.1

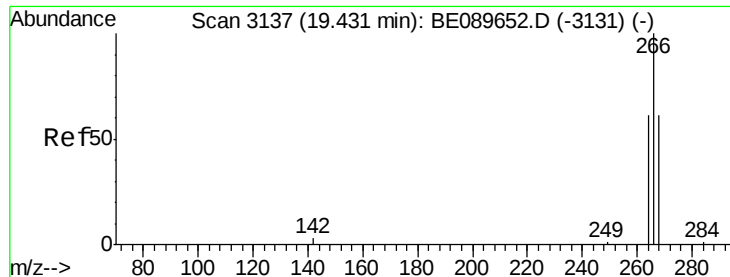


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

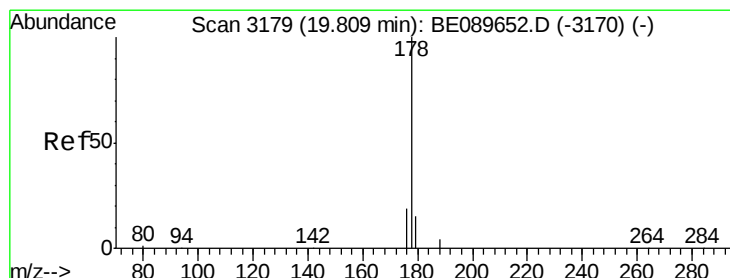
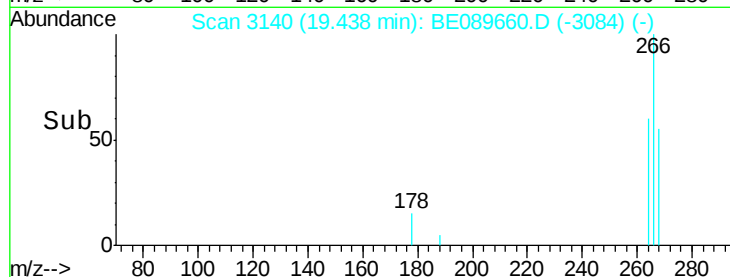
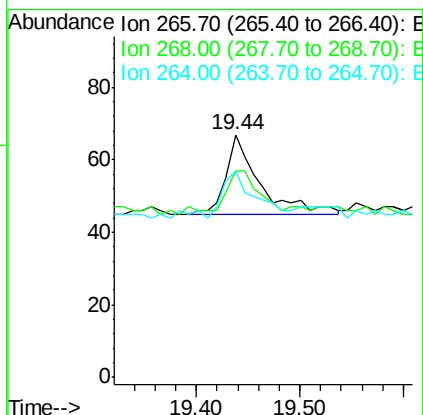
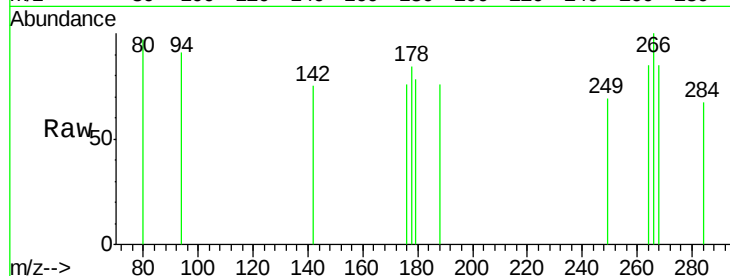
Ion 249.00 (248.70 to 249.70): E





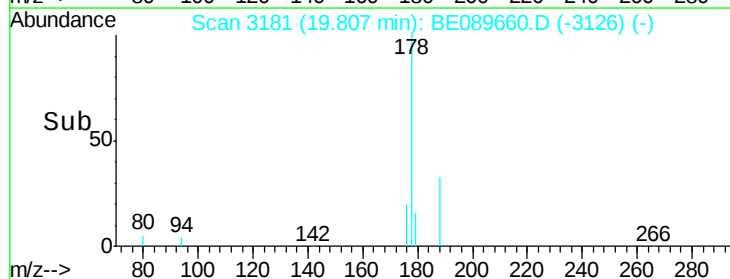
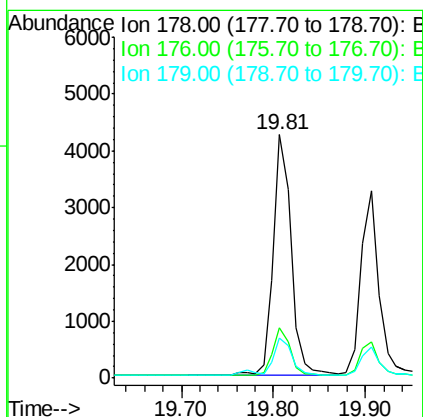
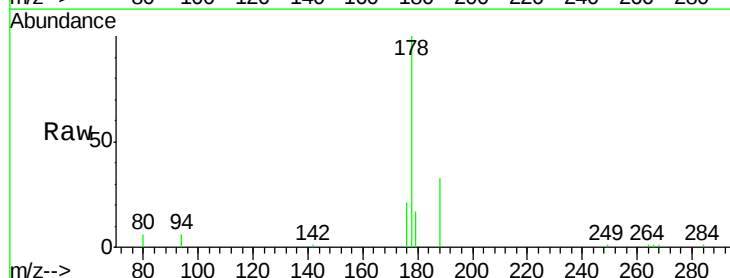
#15
 Pentachlorophenol
 Concen: 0.24 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089660.D
 Acq: 24 Feb 2015 4:01

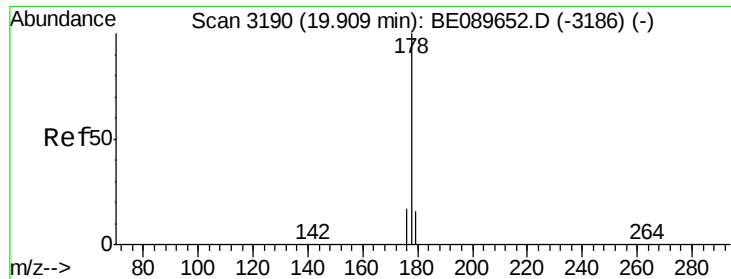
Tot Ion	Ratio	Lower	Upper
266	100		
268	85.1	54.7	82.1#
264	85.1	55.4	83.0#



#16
 Phenanthrene
 Concen: 0.16 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089660.D
 Acq: 24 Feb 2015 4:01

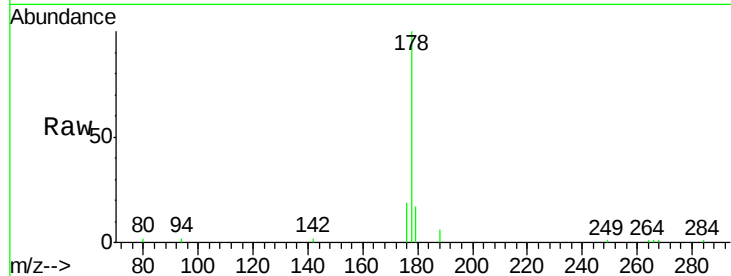
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	17.6	12.3	18.5



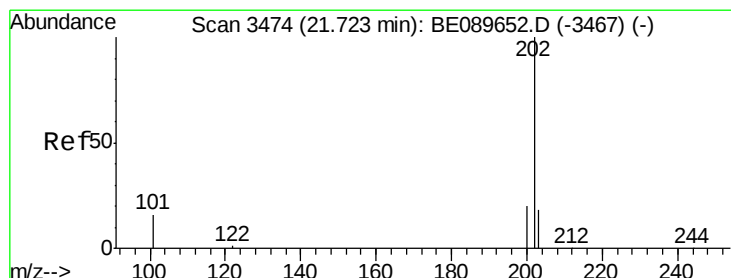
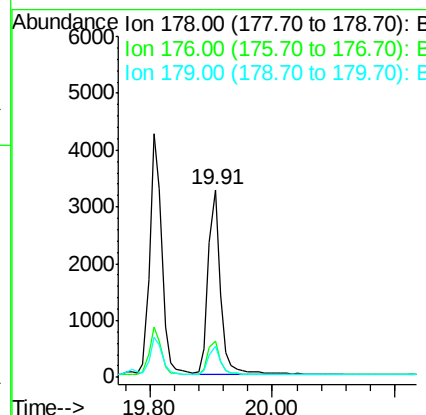
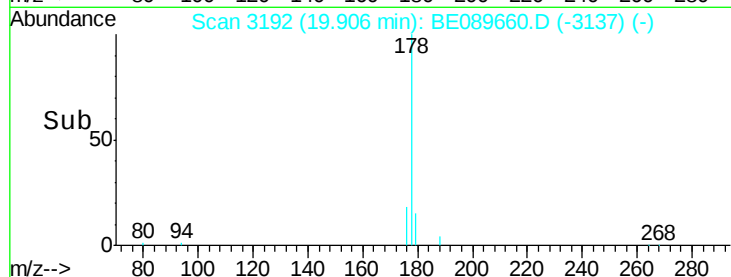


#17
 Anthracene
 Concen: 0.15 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089660.D
 Acq: 24 Feb 2015 4:01

Tot Ion:178 Resp: 4556
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.3 21.5
 179 14.8 12.1 18.1

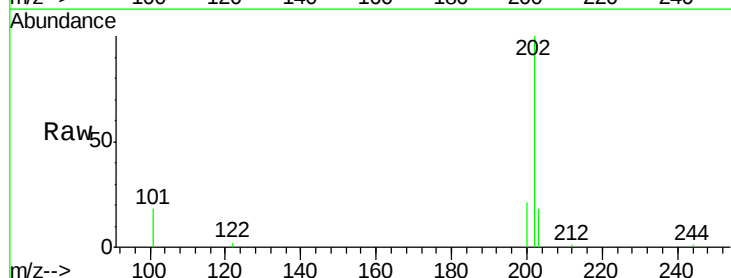


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

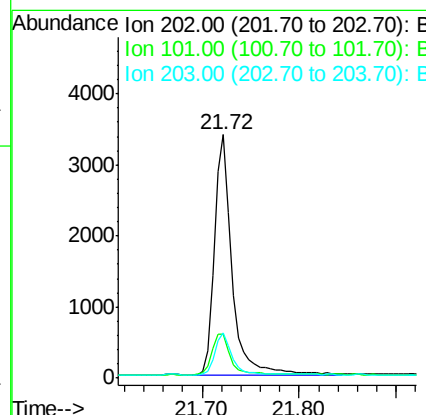
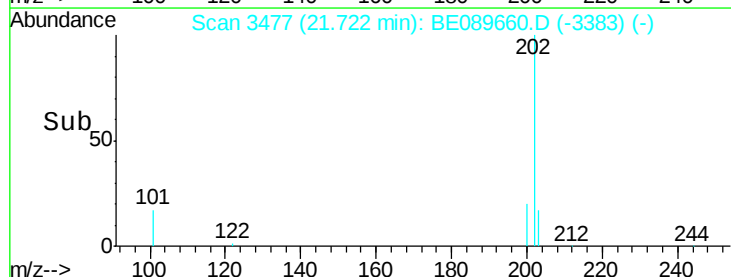


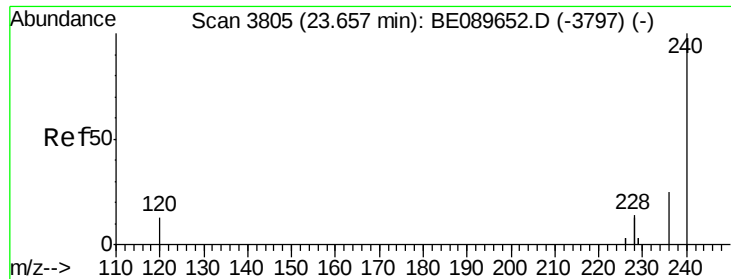
#18
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089660.D
 Acq: 24 Feb 2015 4:01

Tgt Ion:202 Resp: 4253
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.9 22.3
 203 16.9 13.7 20.5



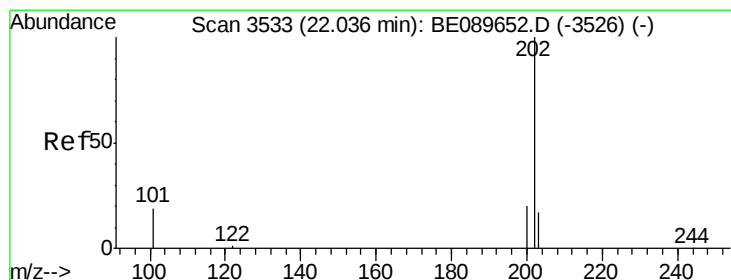
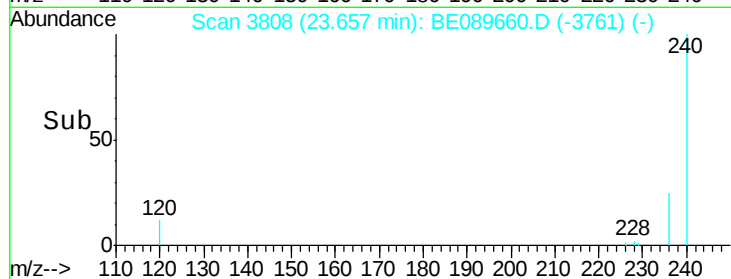
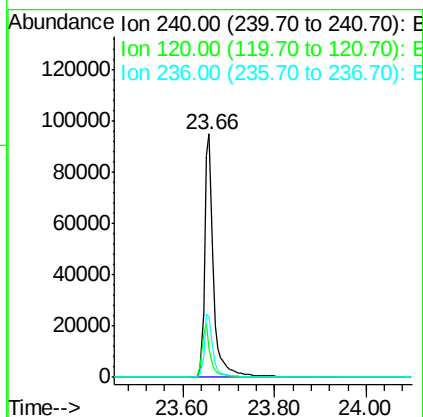
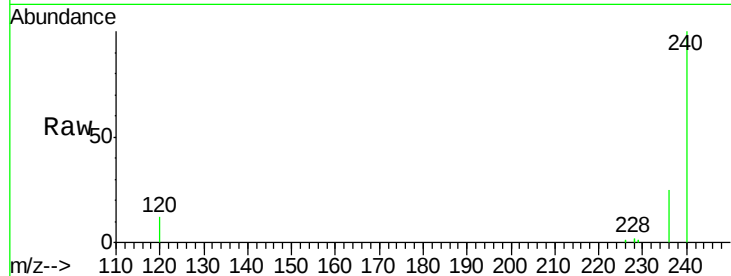
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





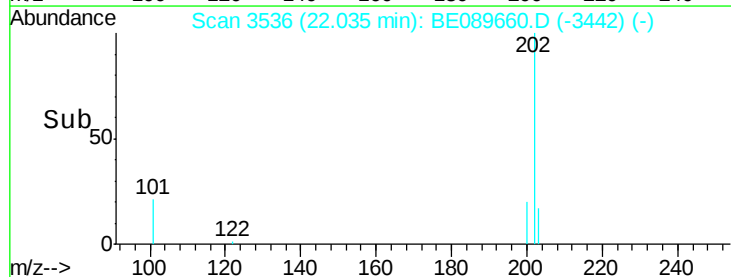
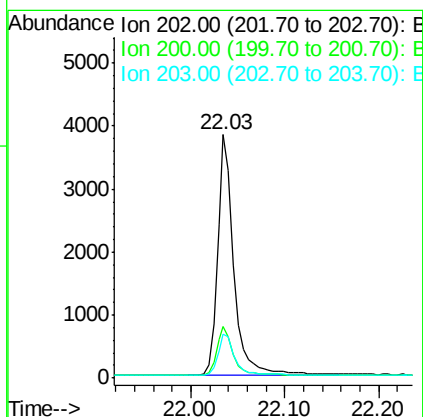
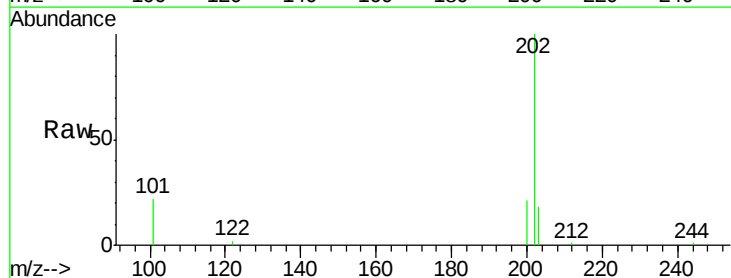
#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3808
Delta R.T. 0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

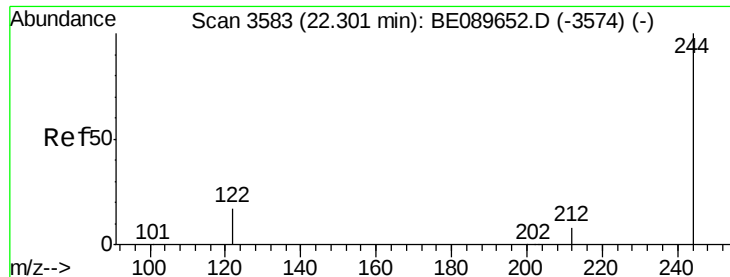
Tot Ion:240 Resp: 125451
Ion Ratio Lower Upper
240 100
120 11.8 10.6 15.8
236 25.0 20.3 30.5



#20
Pyrene
Concen: 0.15 ng
RT: 22.03 min Scan# 3536
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

Tgt Ion:202 Resp: 4632
Ion Ratio Lower Upper
202 100
200 20.2 16.5 24.7
203 17.7 13.8 20.6





#21

Terphenyl-d14

Concen: 9.99 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

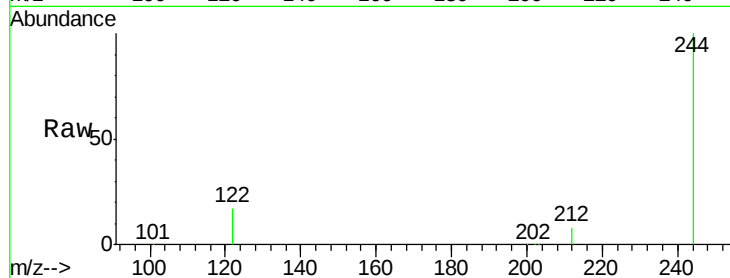
Tot Ion:244 Resp: 178907

Ion Ratio Lower Upper

244 100

212 8.0 6.6 10.0

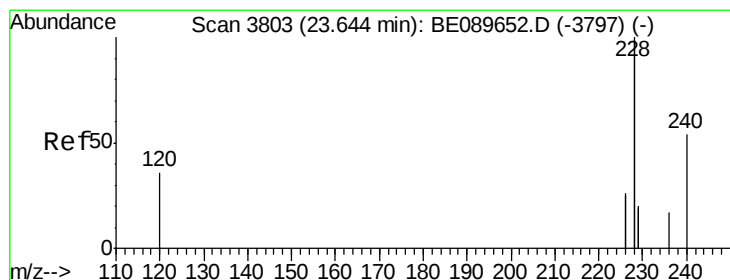
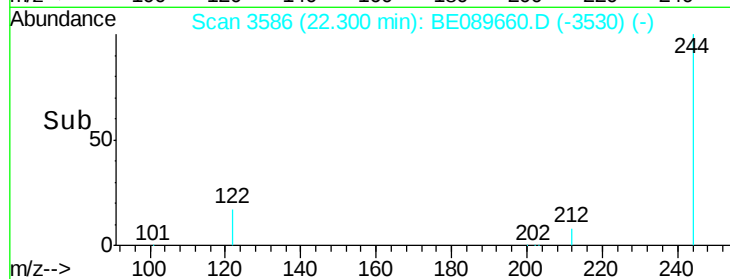
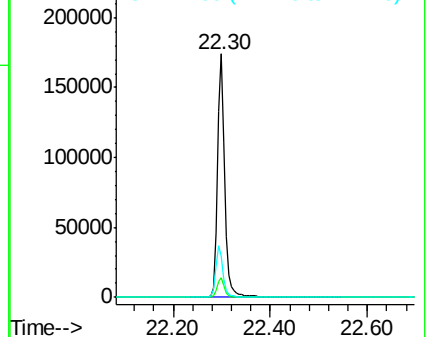
122 17.2 13.7 20.5



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# 3806

Delta R.T. 0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

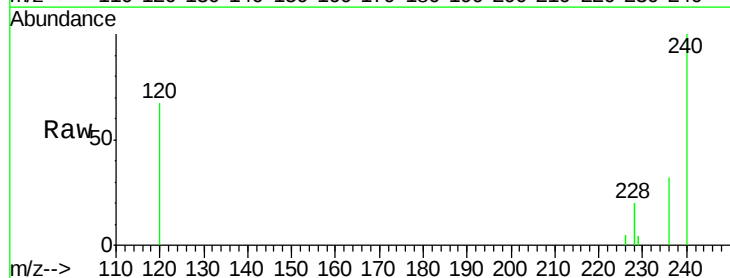
Tgt Ion:228 Resp: 12933

Ion Ratio Lower Upper

228 100

226 27.0 20.9 31.3

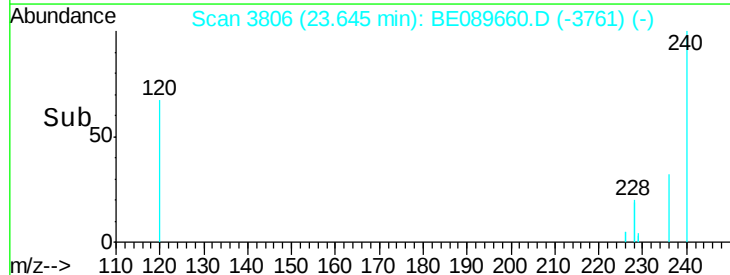
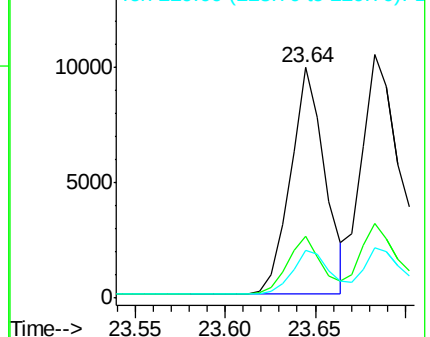
229 20.6 15.8 23.6

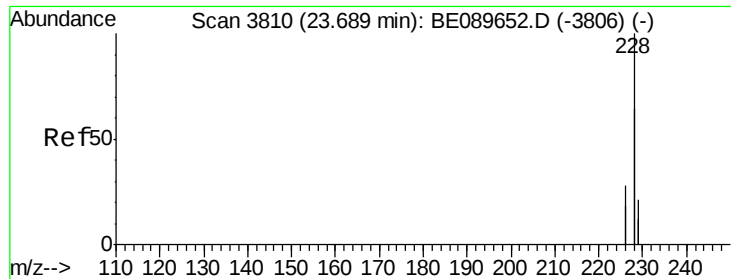


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.17 ng

RT: 23.68 min Scan# 3812

Delta R.T. -0.01 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

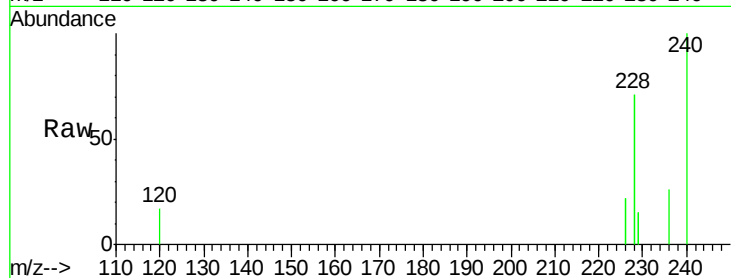
Tot Ion:228 Resp: 20210

Ion Ratio Lower Upper

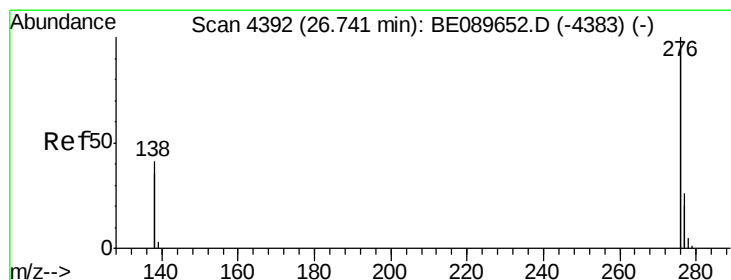
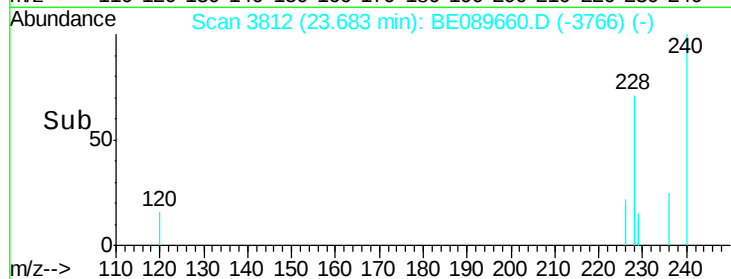
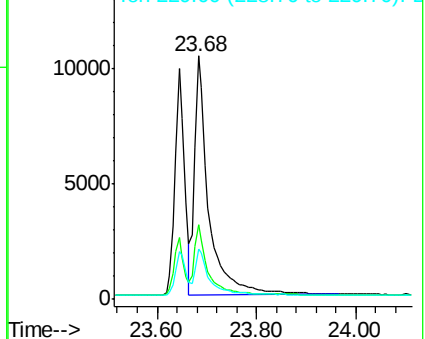
228 100

226 30.7 22.0 33.0

229 20.6 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: 0.39 ng

RT: 26.73 min Scan# 4394

Delta R.T. -0.01 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

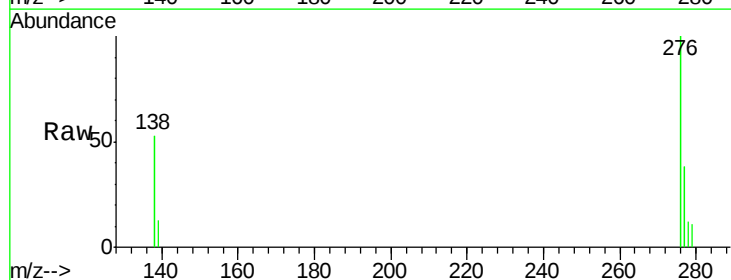
Tgt Ion:276 Resp: 3268

Ion Ratio Lower Upper

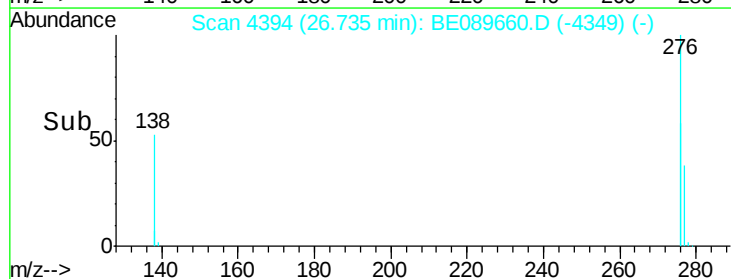
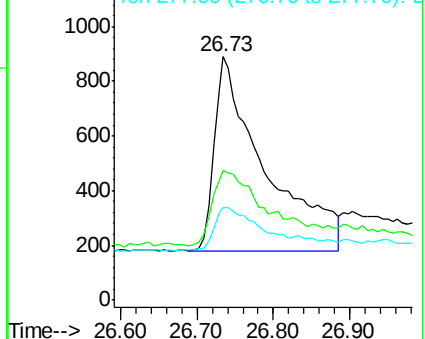
276 100

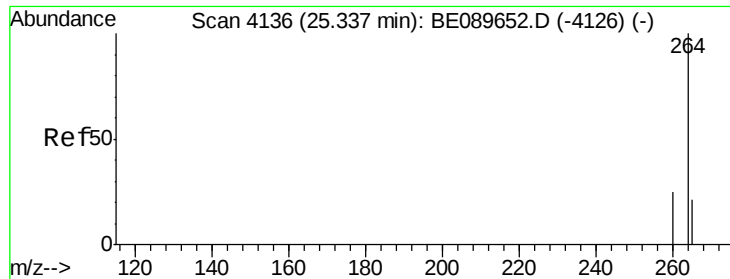
138 40.6 36.2 54.4

277 20.2 5.4 8.2#



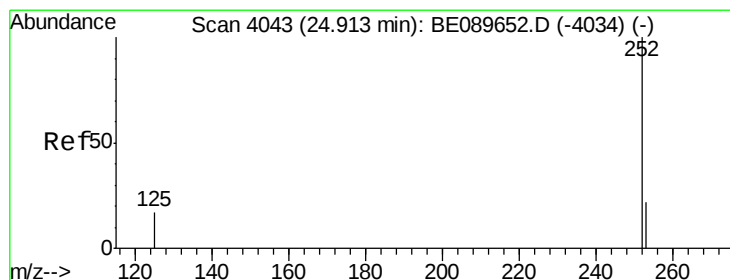
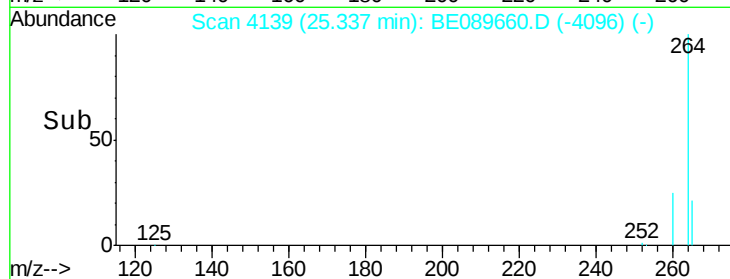
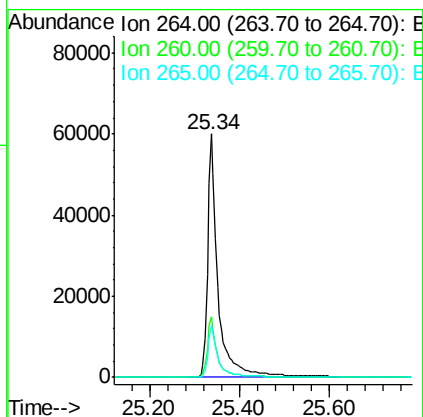
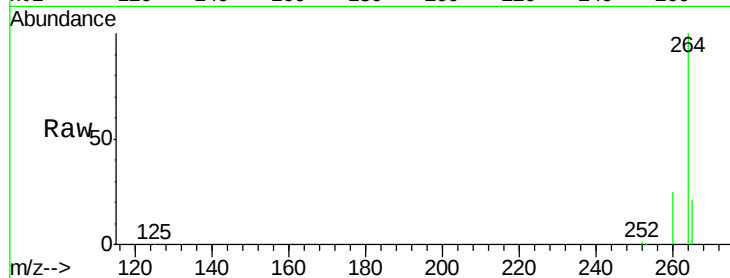
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





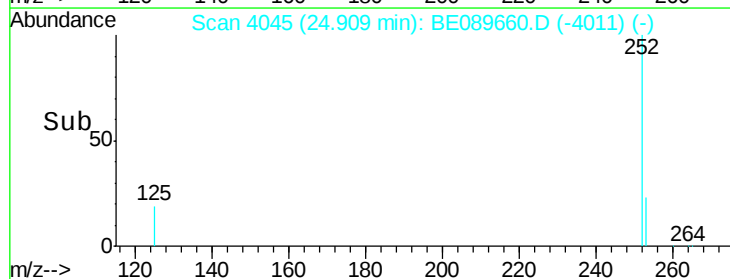
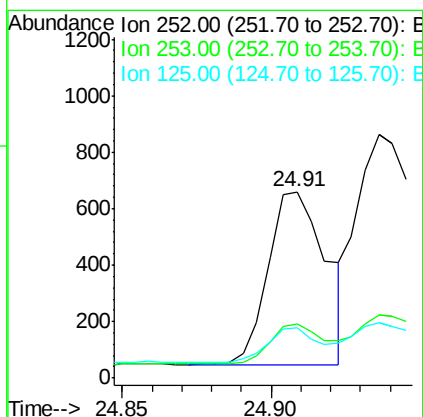
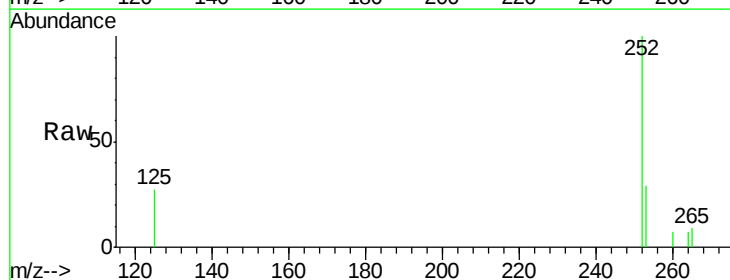
#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. 0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

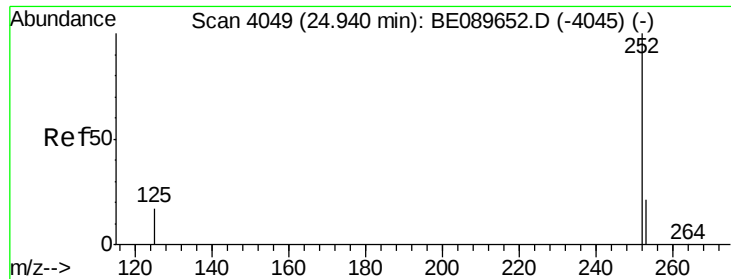
Tot Ion: 264 Resp: 96318
Ion Ratio Lower Upper
264 100
260 24.7 20.0 30.0
265 21.4 16.8 25.2



#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089660.D
Acq: 24 Feb 2015 4:01

Tgt Ion: 252 Resp: 826
Ion Ratio Lower Upper
252 100
253 28.8 18.3 27.5#
125 26.7 14.6 22.0#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng m

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

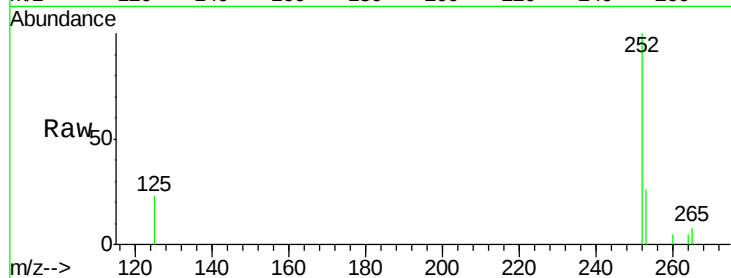
Tot Ion:252 Resp: 2446

Ion Ratio Lower Upper

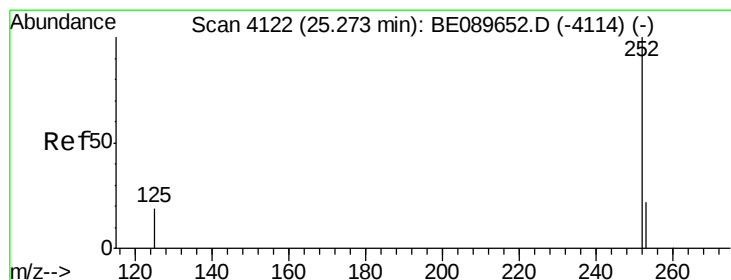
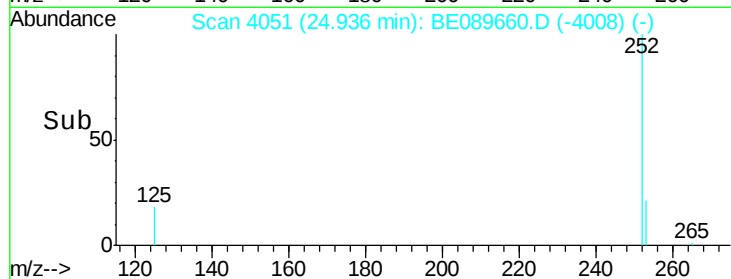
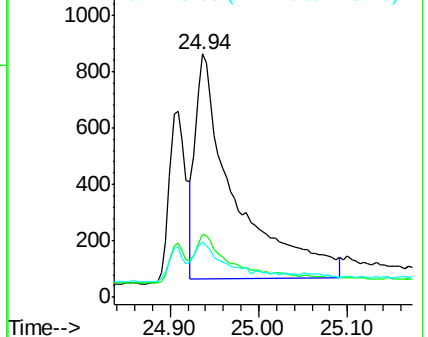
252 100

253 25.9 17.8 26.8

125 23.0 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# 4124

Delta R.T. -0.00 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

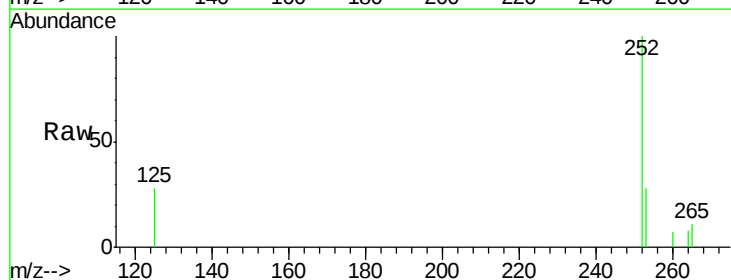
Tgt Ion:252 Resp: 952

Ion Ratio Lower Upper

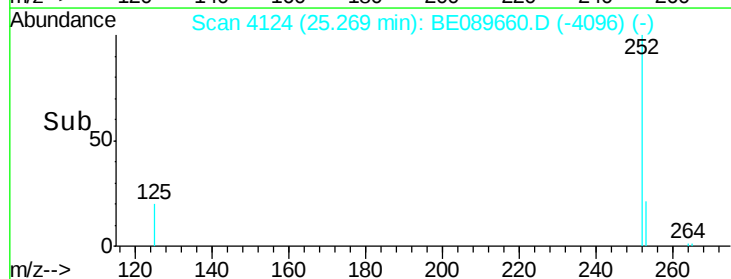
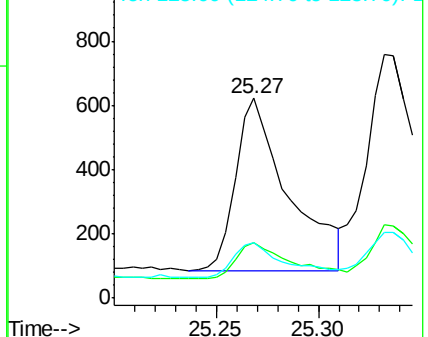
252 100

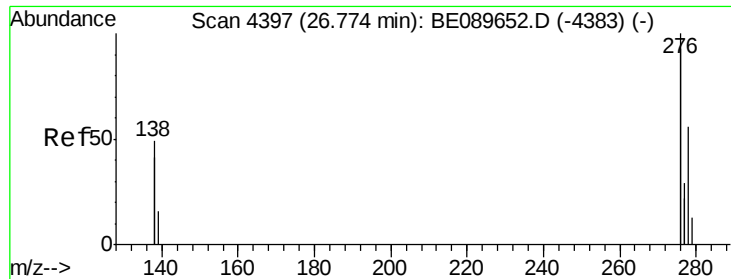
253 27.5 18.4 27.6

125 27.7 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. -0.01 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

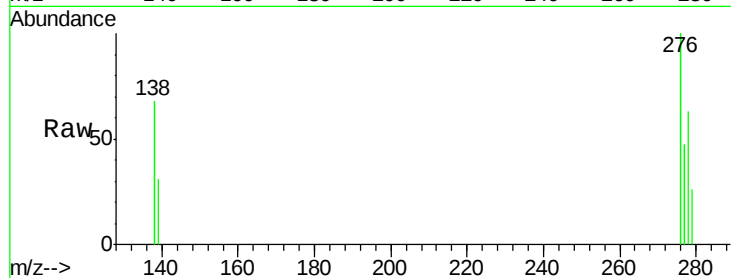
Tot Ion:278 Resp: 478

Ion Ratio Lower Upper

278 100

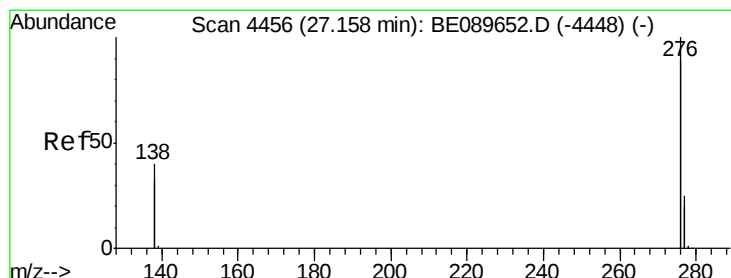
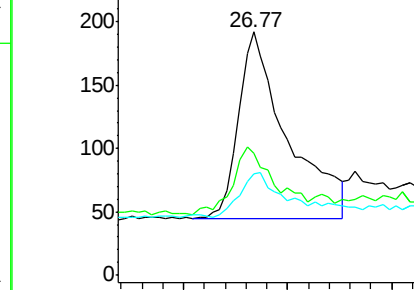
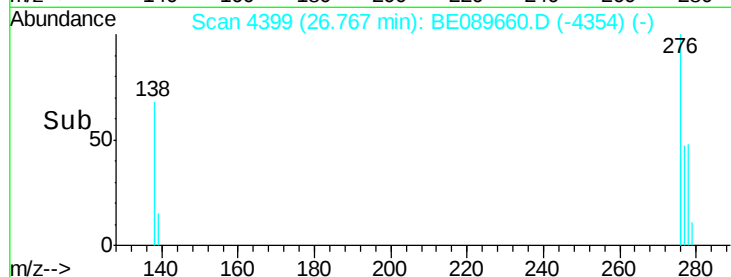
139 50.0 25.4 38.2#

279 41.7 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

26.77



#30

Benzo(g,h,i)perylene

Concen: 0.28 ng

RT: 27.15 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089660.D

Acq: 24 Feb 2015 4:01

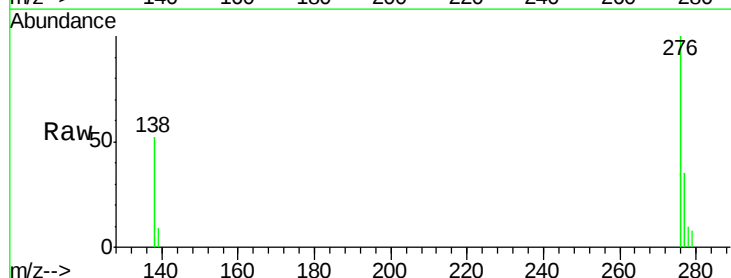
Tgt Ion:276 Resp: 4487

Ion Ratio Lower Upper

276 100

277 35.2 20.2 30.2#

138 51.8 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

27.15

