

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089679.D
 Acq On : 24 Feb 2015 20:13
 Operator : TP/JJ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Quant Time: Feb 25 04:20:01 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	52944	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	222783	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	100160	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	180280	5.00	ng	0.00
19) Chrysene-d12	23.66	240	131391	5.00	ng	0.00
25) Perylene-d12	25.34	264	96509	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	122055	9.22	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	215433	9.67	ng	0.00
21) Terphenyl-d14	22.30	244	194648	12.63	ng	0.00

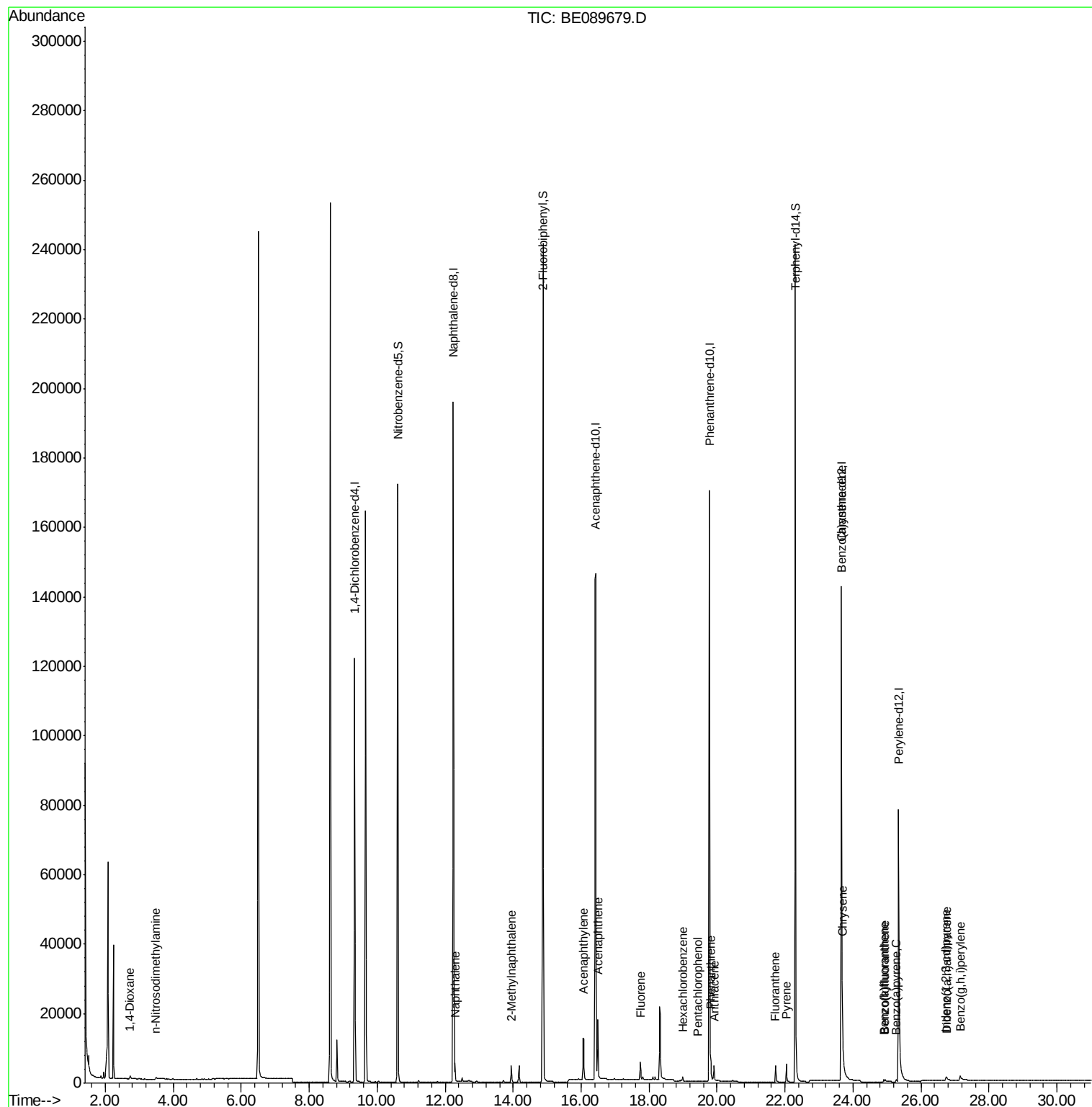
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	883	0.13	ng	# 80
3) n-Nitrosodimethylamine	3.48	42	1022	0.19	ng	# 65
6) Naphthalene	12.29	128	6565	0.15	ng	97
7) 2-Methylnaphthalene	13.95	142	3484	0.14	ng	98
10) Acenaphthylene	16.06	152	18663	0.13	ng	100
11) Acenaphthene	16.49	154	3419	0.15	ng	98
12) Fluorene	17.74	166	3645	0.14	ng	100
14) Hexachlorobenzene	18.99	284	749	0.16	ng	97
15) Pentachlorophenol	19.44	266	51	0.32	ng	# 72
16) Phenanthrene	19.81	178	5950	0.15	ng	98
17) Anthracene	19.91	178	4436	0.14	ng	99
18) Fluoranthene	21.72	202	4099	0.13	ng	98
20) Pyrene	22.03	202	4491	0.14	ng	99
22) Benzo(a)anthracene	23.65	228	11707	0.14	ng	96
23) Chrysene	23.68	228	20514	0.17	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	2731	0.30	ng	# 61
26) Benzo(b)fluoranthene	24.91	252	644	0.36	ng	# 87
27) Benzo(k)fluoranthene	24.94	252	1529	0.21	ng	# 88
28) Benzo(a)pyrene	25.27	252	768	0.14	ng	# 85
29) Dibenzo(a,h)anthracene	26.77	278	407	0.34	ng	# 81
30) Benzo(g,h,i)perylene	27.15	276	3395	0.37	ng	# 88

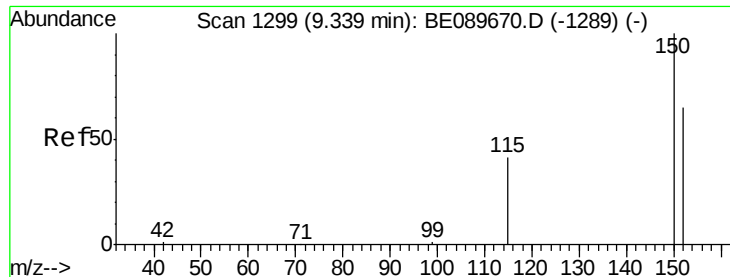
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

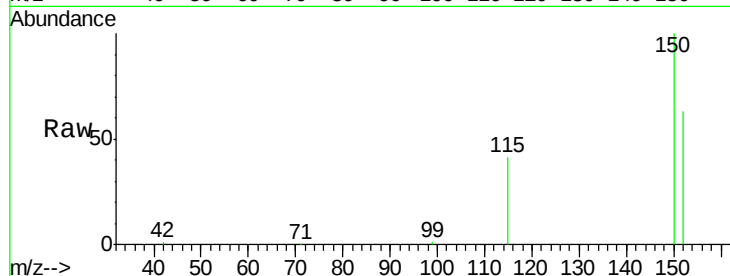
Tgt Ion:152 Resp: 52944

Ion Ratio Lower Upper

152 100

150 158.2 123.4 185.0

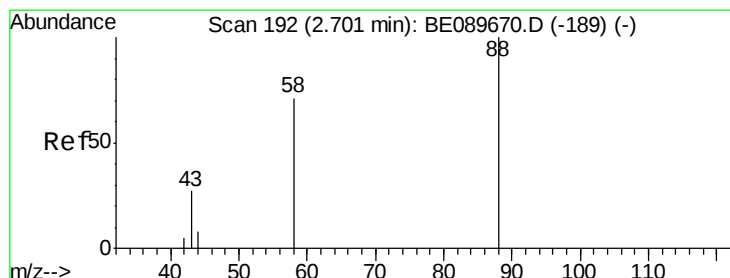
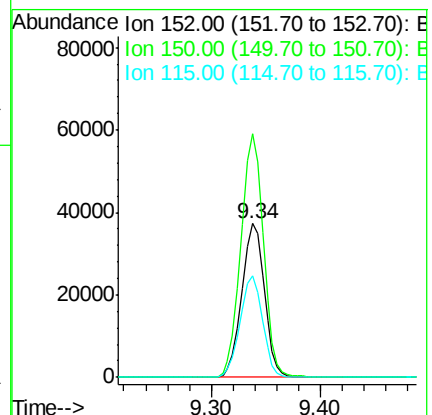
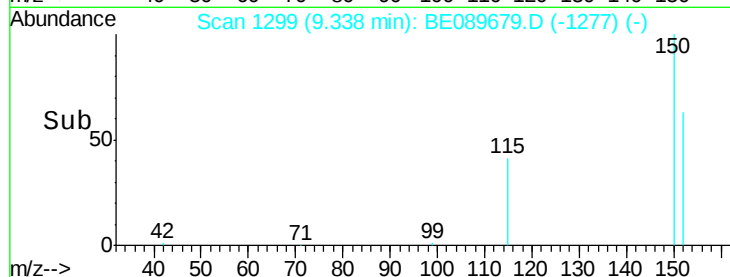
115 65.6 50.8 76.2



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: 0.13 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.03 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

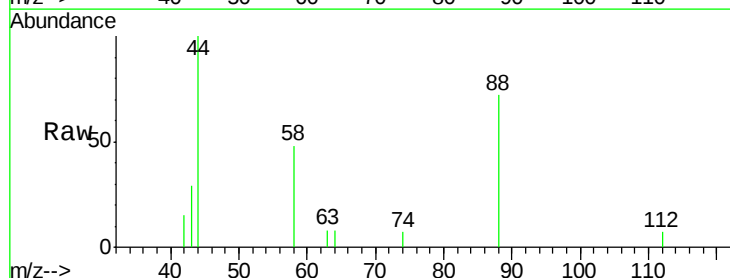
Tgt Ion: 88 Resp: 883

Ion Ratio Lower Upper

88 100

58 75.2 62.4 93.6

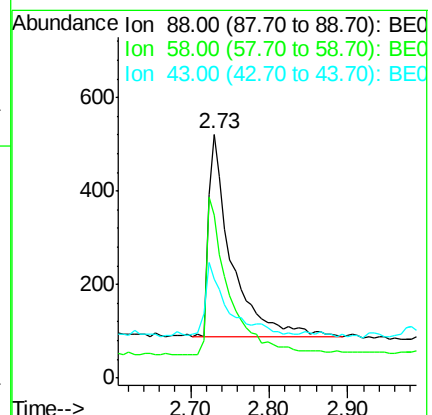
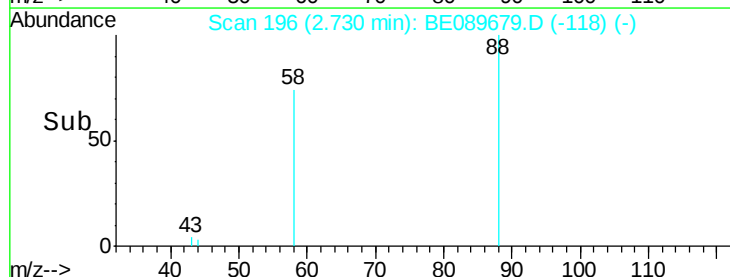
43 0.0 26.6 40.0#

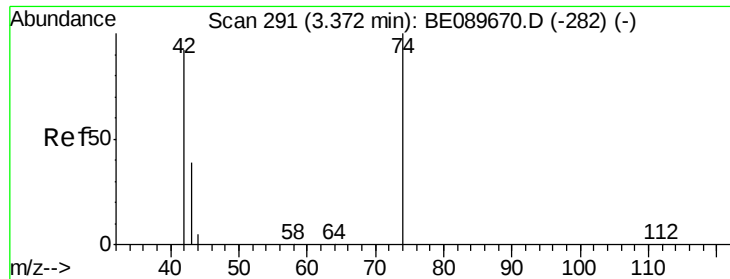


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.19 ng

RT: 3.48 min Scan# 307

Delta R.T. 0.11 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

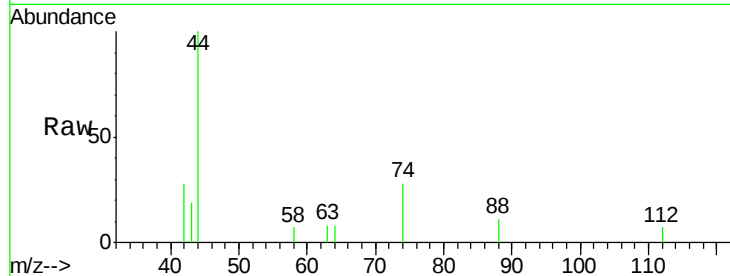
Tgt Ion: 42 Resp: 1022

Ion Ratio Lower Upper

42 100

74 74.1 91.1 136.7#

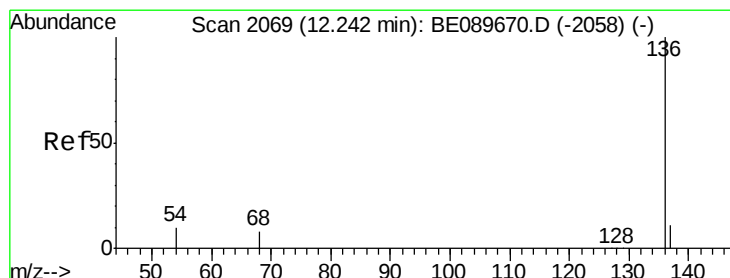
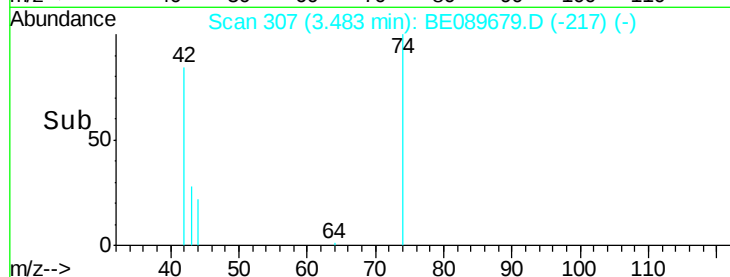
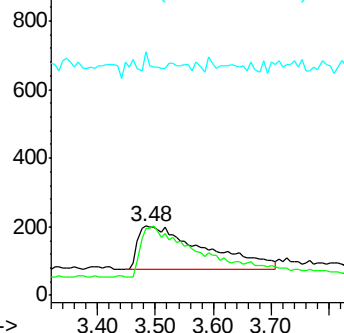
44 3.6 4.7 7.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2069

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

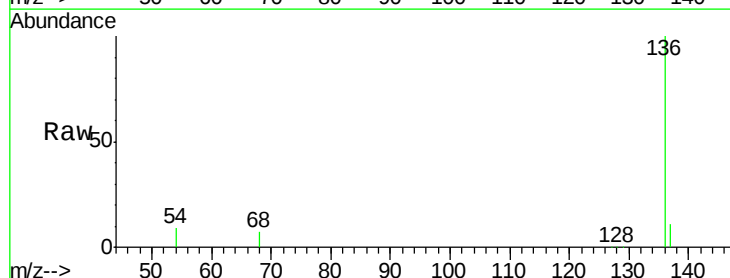
Tgt Ion: 136 Resp: 222783

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

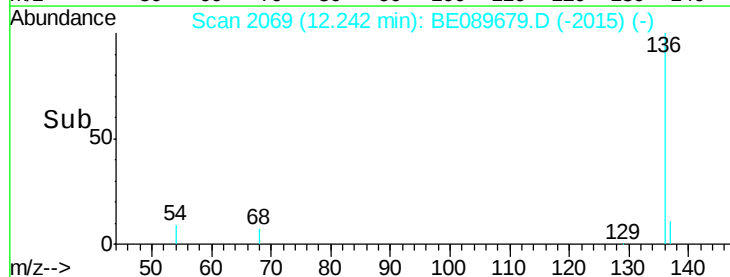
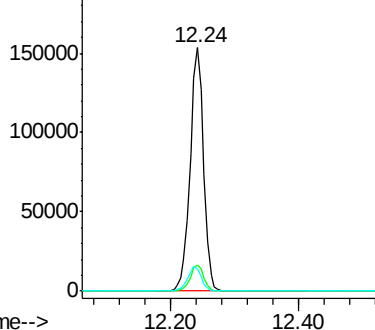
54 9.2 7.8 11.8

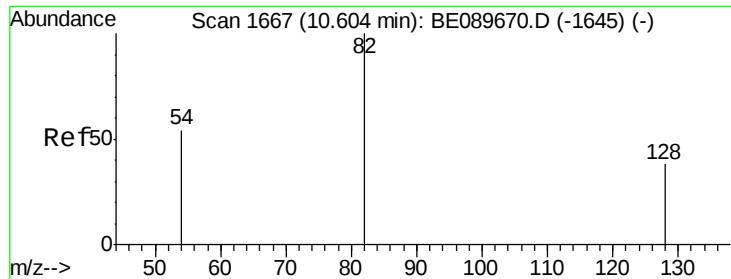


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.22 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

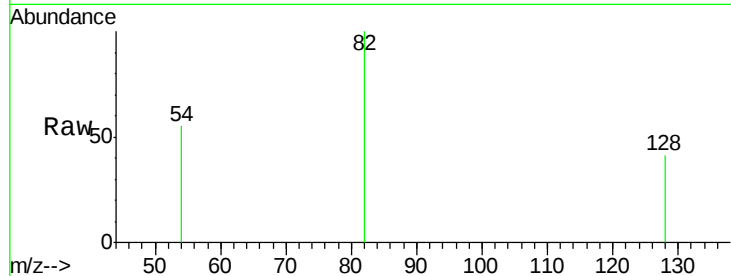
Tgt Ion: 82 Resp: 122055

Ion Ratio Lower Upper

82 100

128 41.2 30.6 46.0

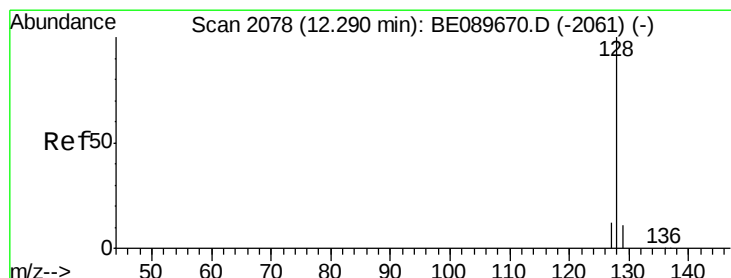
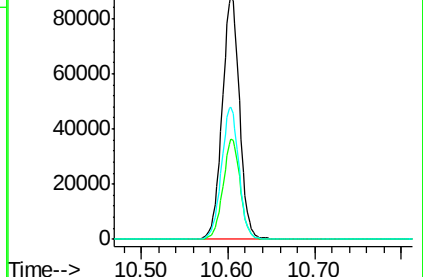
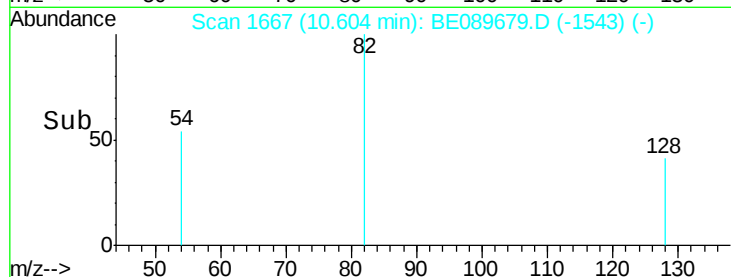
54 54.5 43.6 65.4



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: 0.15 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

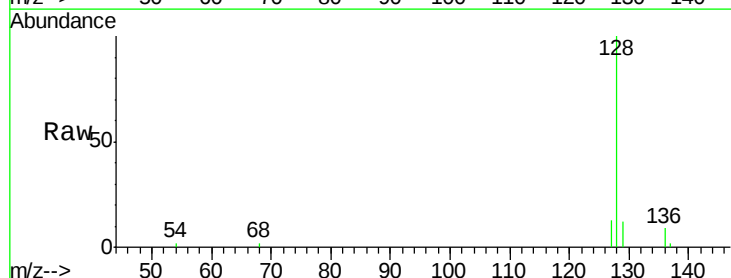
Tgt Ion: 128 Resp: 6565

Ion Ratio Lower Upper

128 100

129 11.8 8.9 13.3

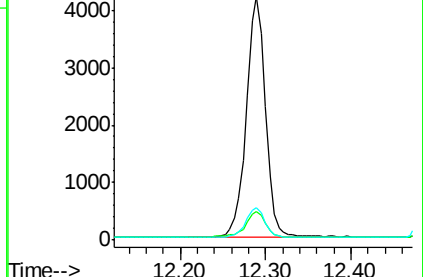
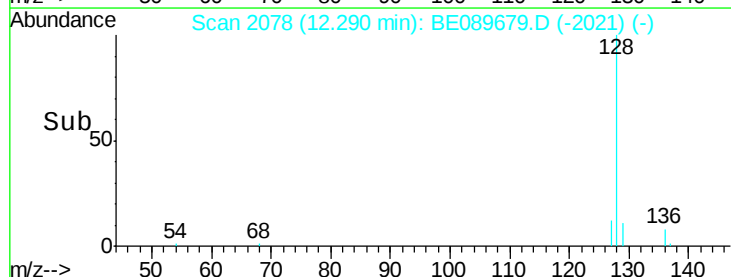
127 13.3 9.7 14.5

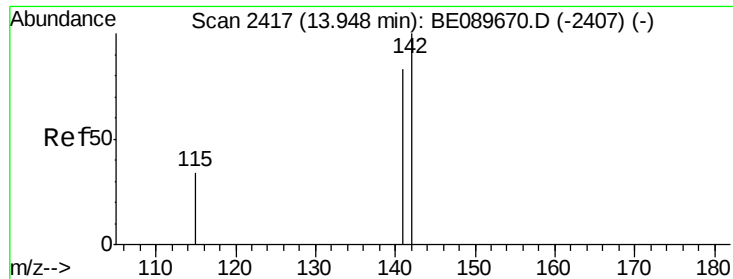


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

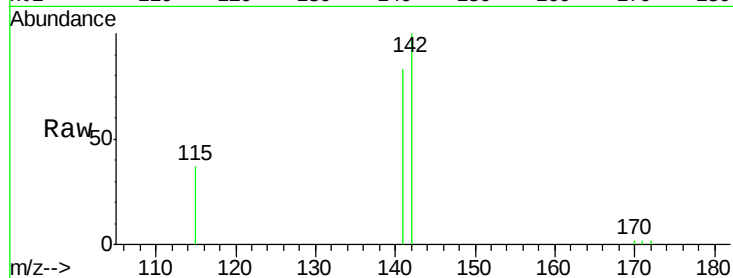
Tgt Ion:142 Resp: 3484

Ion Ratio Lower Upper

142 100

141 83.1 66.0 99.0

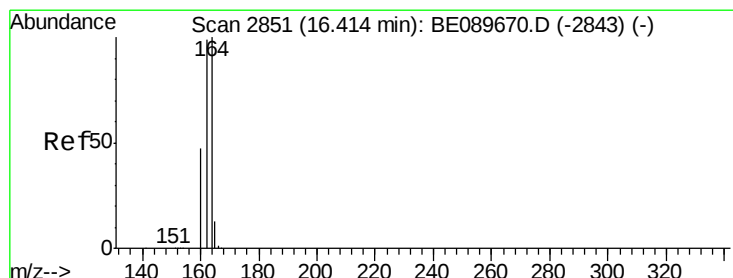
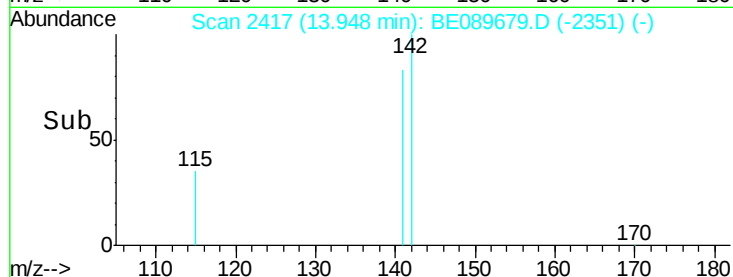
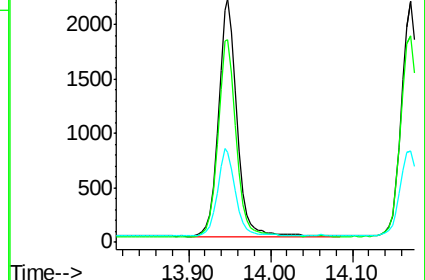
115 36.8 27.4 41.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

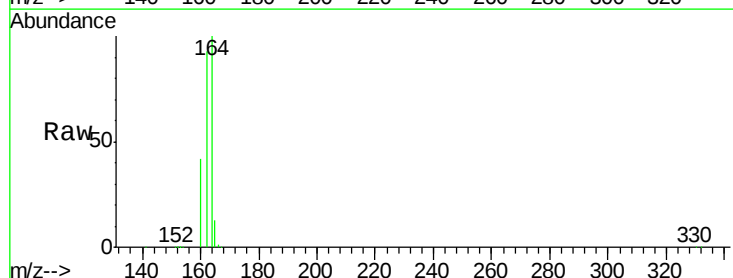
Tgt Ion:164 Resp: 100160

Ion Ratio Lower Upper

164 100

162 93.2 79.4 119.2

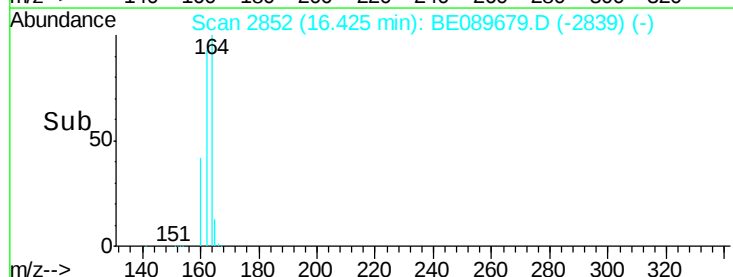
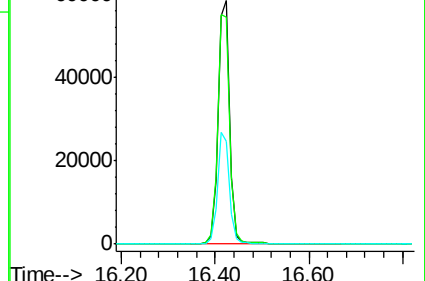
160 42.1 37.6 56.4

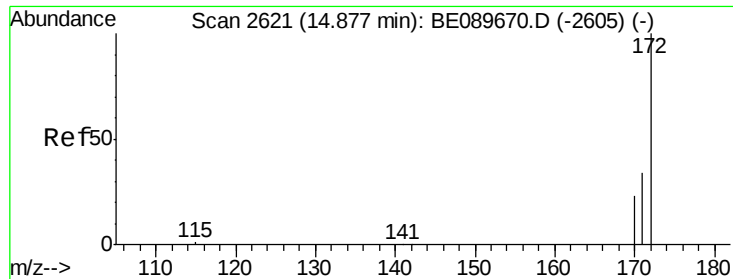


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.67 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

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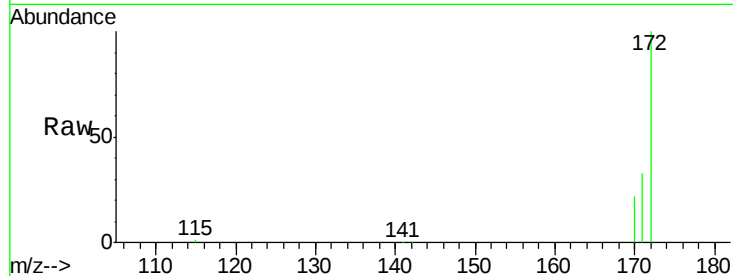
Tgt Ion:172 Resp: 215433

Ion Ratio Lower Upper

172 100

171 33.1 27.3 40.9

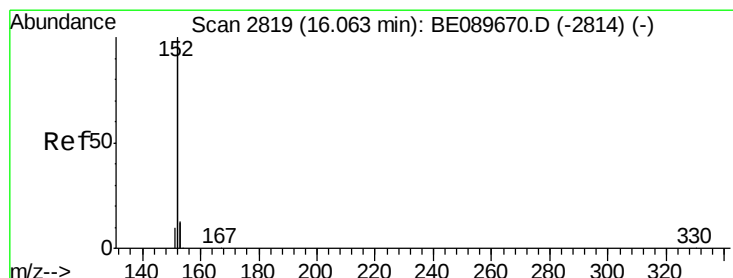
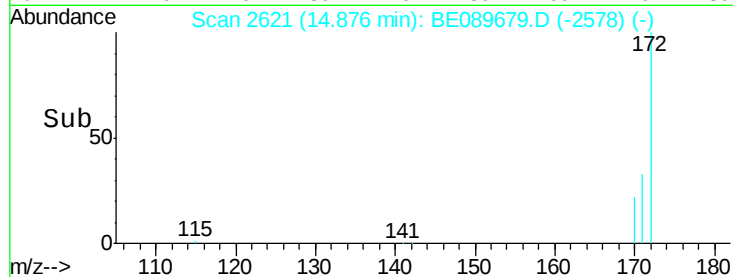
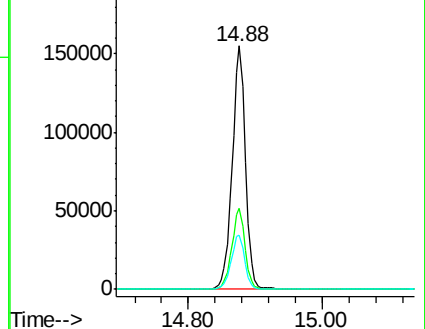
170 22.2 18.5 27.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.13 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

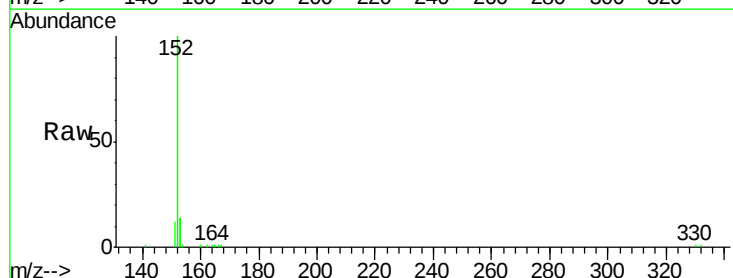
Tgt Ion:152 Resp: 18663

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

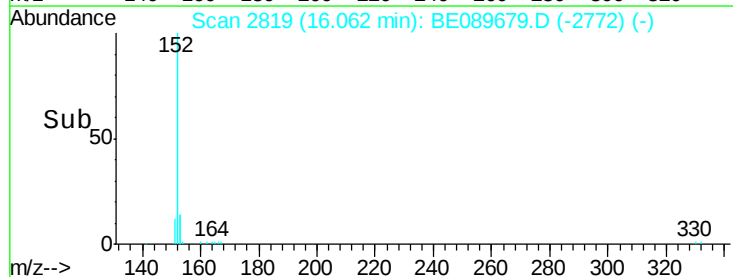
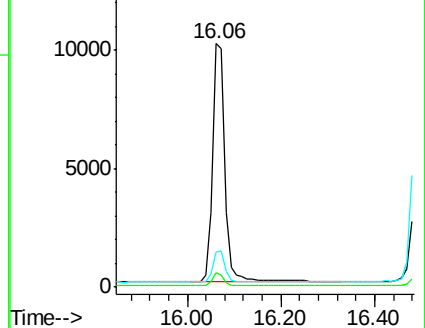
153 12.9 10.4 15.6

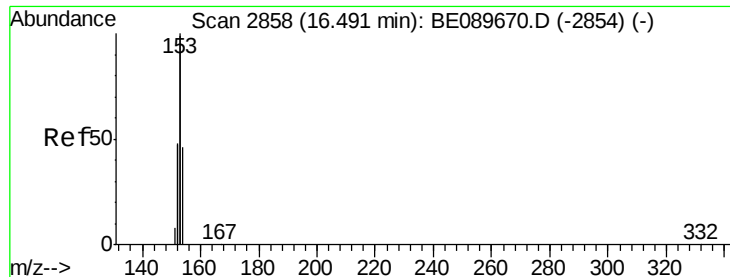


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

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ClientSampleId :

MDL-05-S

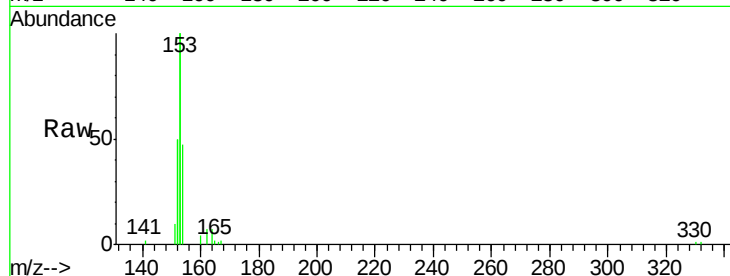
Tgt Ion:154 Resp: 3419

Ion Ratio Lower Upper

154 100

153 436.4 345.8 518.8

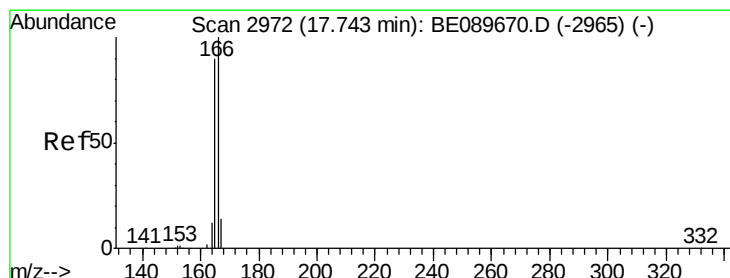
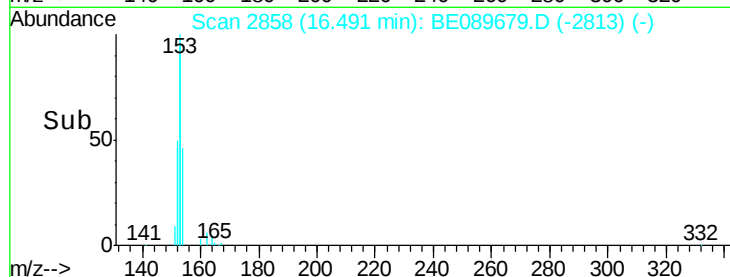
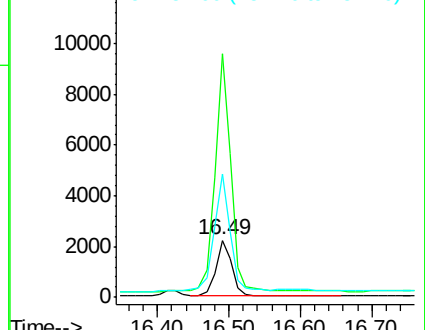
152 212.6 168.6 252.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 0.14 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

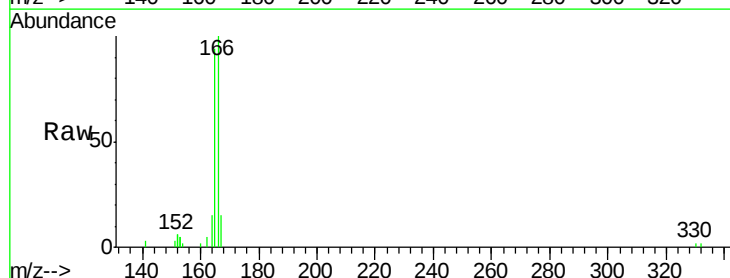
Tgt Ion:166 Resp: 3645

Ion Ratio Lower Upper

166 100

165 92.3 73.6 110.4

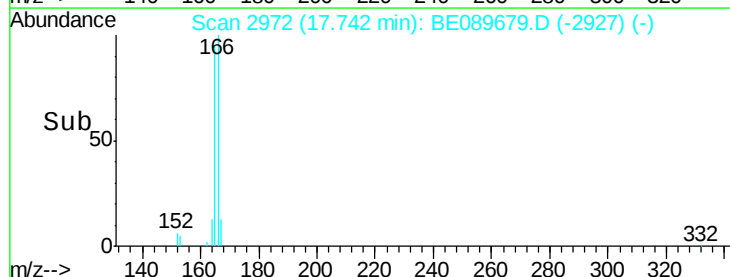
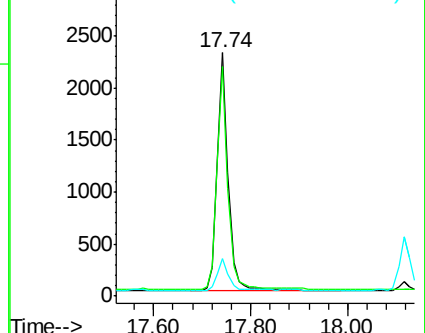
167 13.6 10.6 16.0

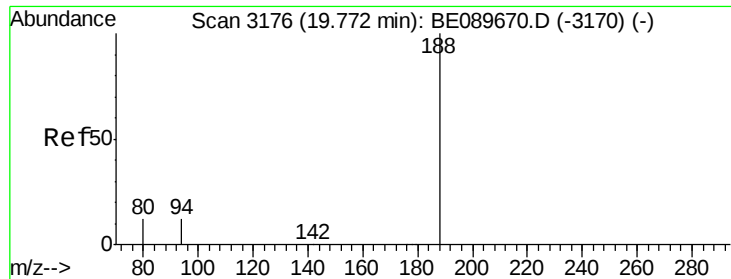


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

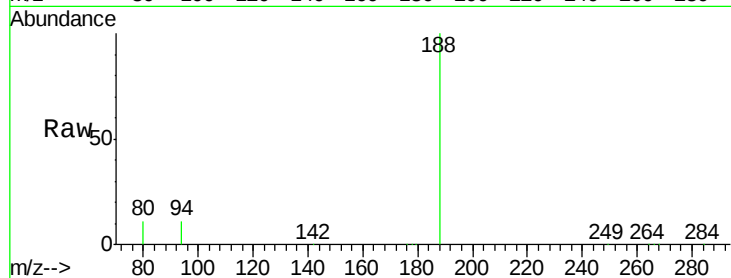




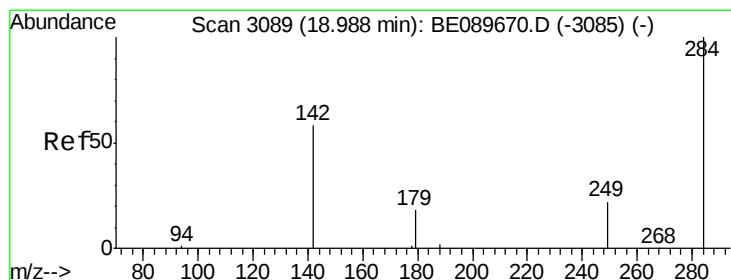
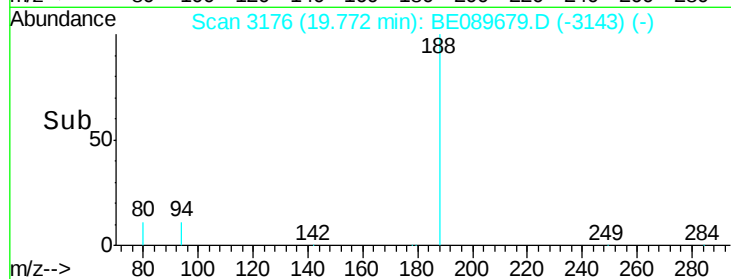
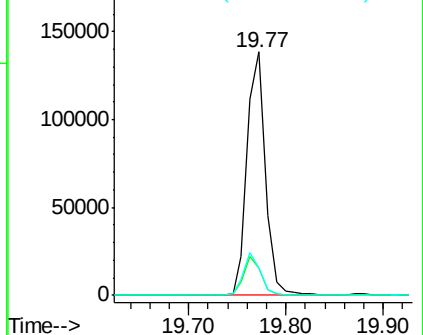
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Instrument :
BNA_E
ClientSampleId :
MDL-05-S

Tgt Ion:188 Resp: 180280
Ion Ratio Lower Upper
188 100
94 11.3 9.4 14.2
80 11.3 9.5 14.3

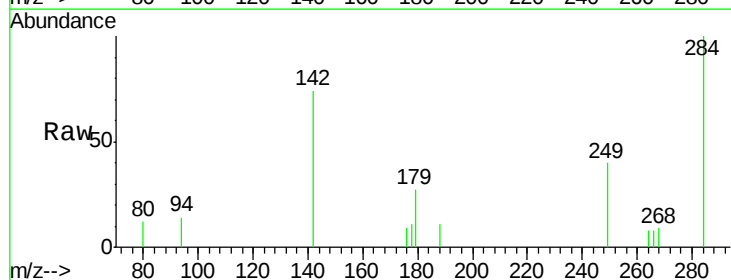


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

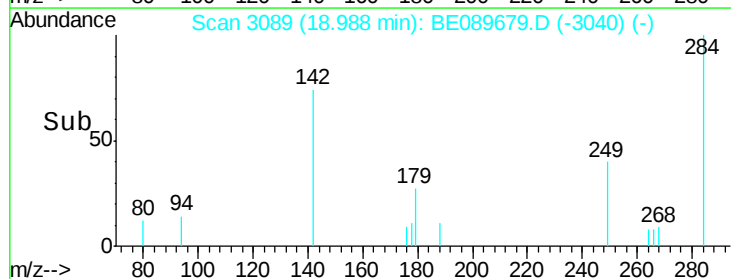
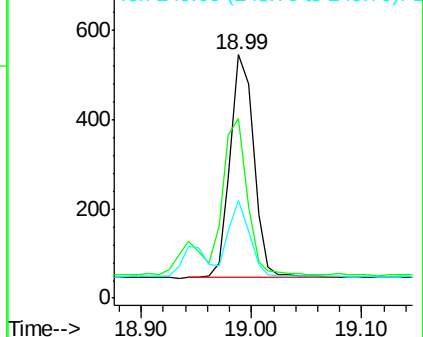


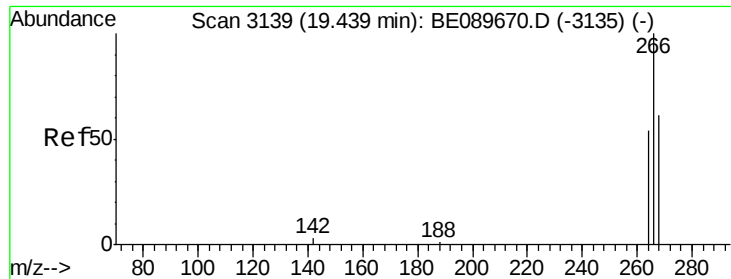
#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Tgt Ion:284 Resp: 749
Ion Ratio Lower Upper
284 100
142 70.2 55.4 83.2
249 29.2 27.2 40.8



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





#15

Pentachlorophenol

Concen: 0.32 ng

RT: 19.44 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

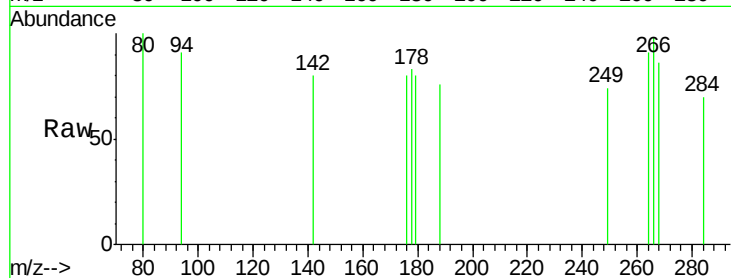
Tgt Ion:266 Resp: 51

Ion Ratio Lower Upper

266 100

268 87.7 56.3 84.5#

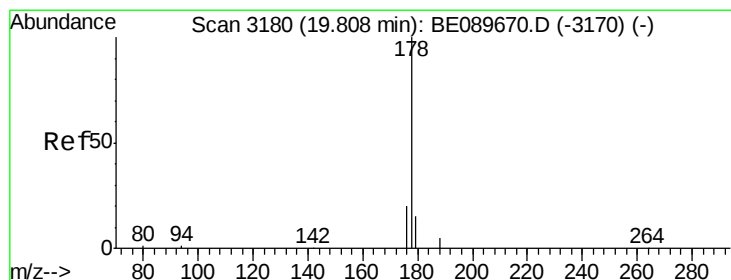
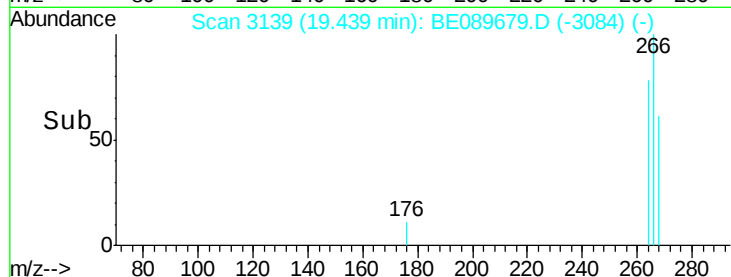
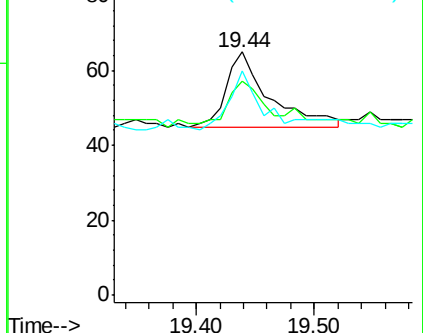
264 92.3 51.8 77.8#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 0.15 ng

RT: 19.81 min Scan# 3180

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

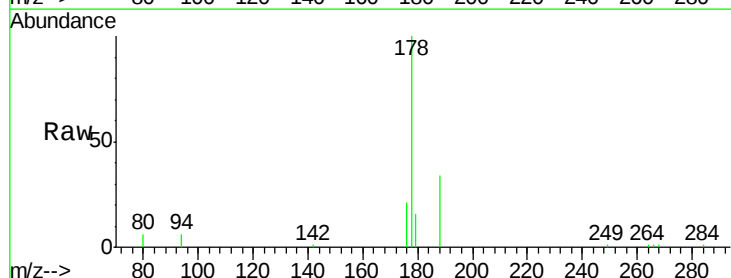
Tgt Ion:178 Resp: 5950

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

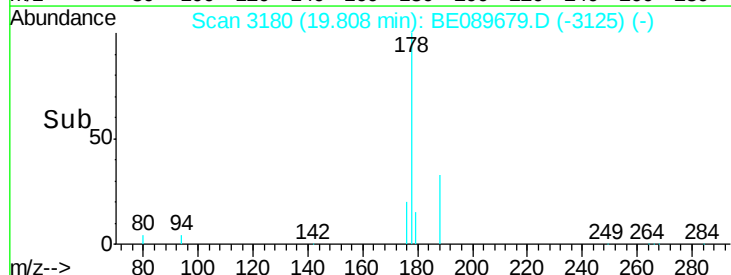
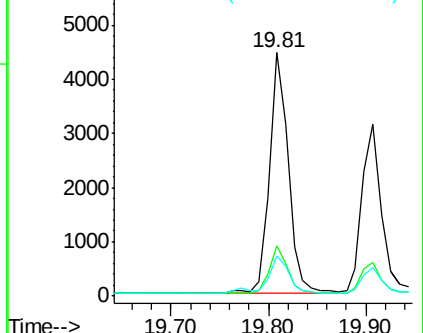
179 17.5 12.5 18.7

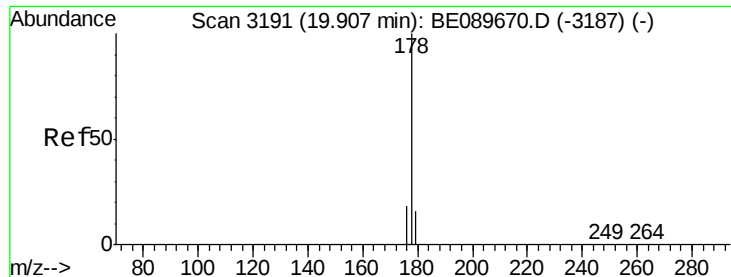


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.14 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

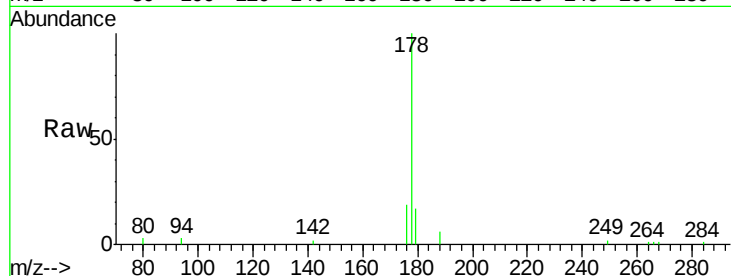
Tgt Ion:178 Resp: 4436

Ion Ratio Lower Upper

178 100

176 18.3 14.8 22.2

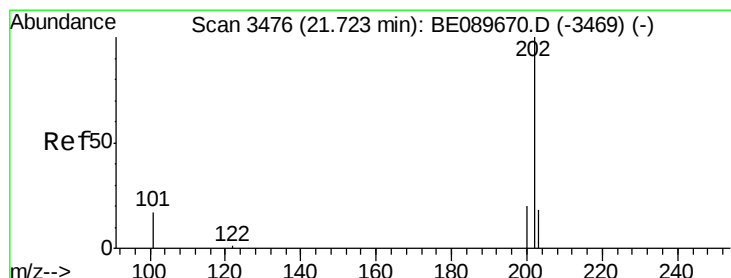
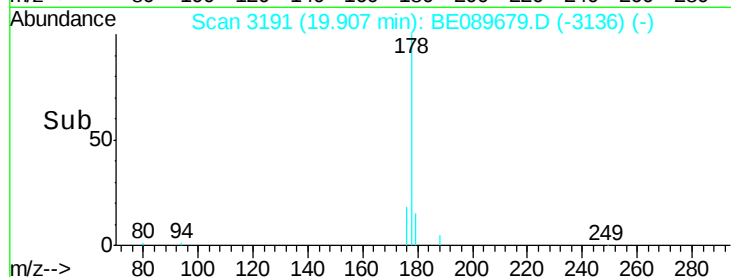
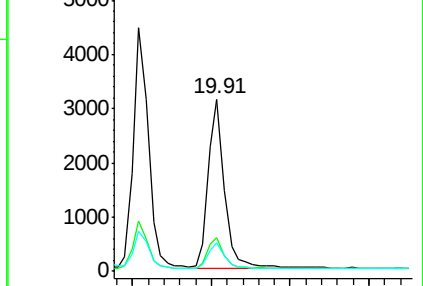
179 14.8 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#18

Fluoranthene

Concen: 0.13 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

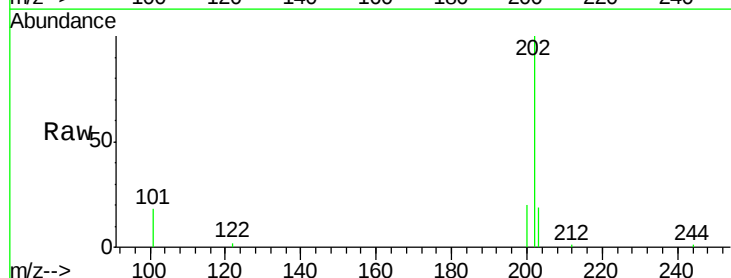
Tgt Ion:202 Resp: 4099

Ion Ratio Lower Upper

202 100

101 16.8 14.9 22.3

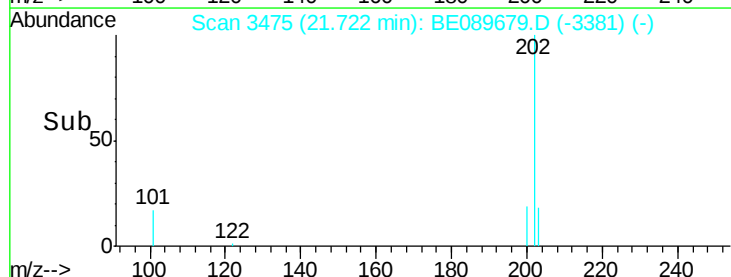
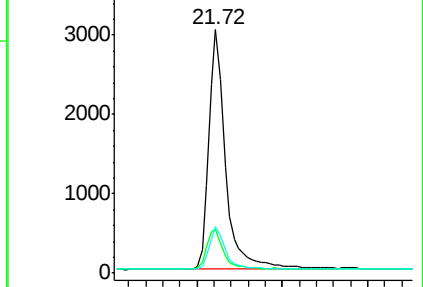
203 17.5 13.8 20.6

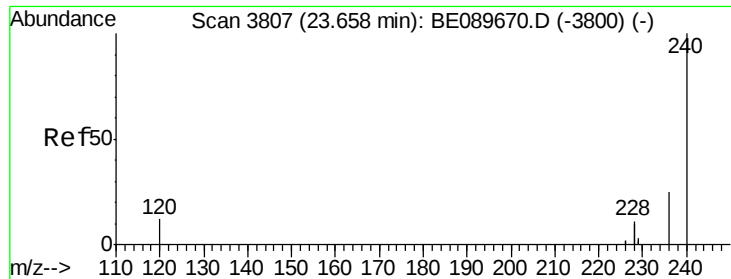


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

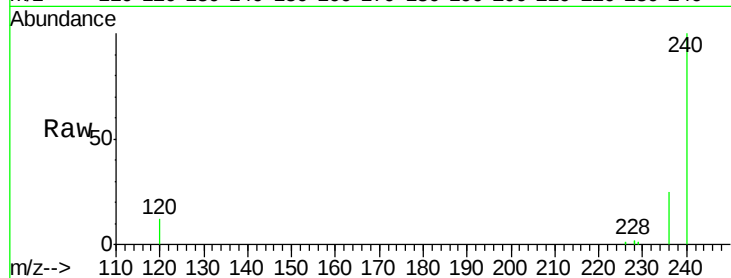
Tgt Ion:240 Resp: 131391

Ion Ratio Lower Upper

240 100

120 12.0 9.4 14.0

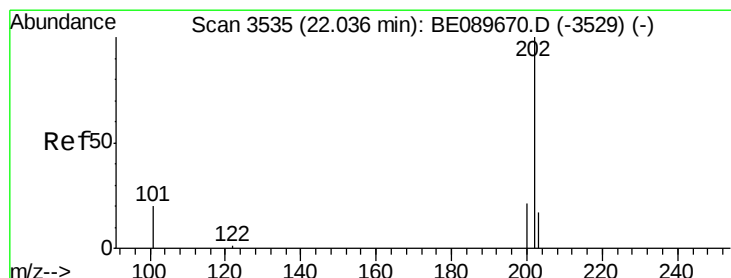
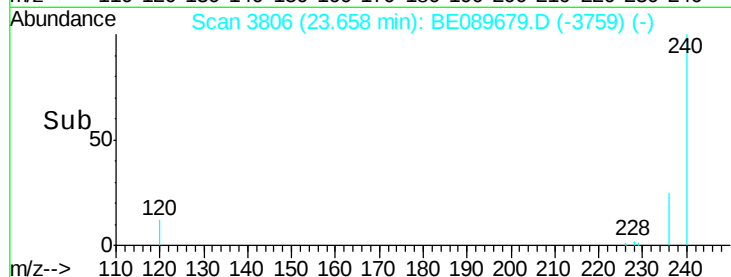
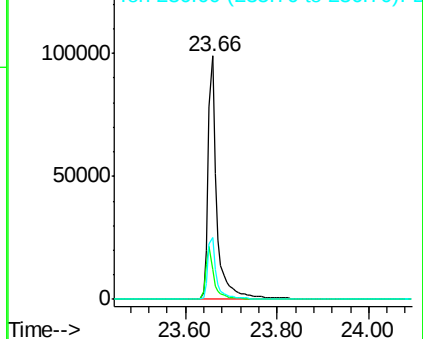
236 25.2 19.9 29.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.14 ng

RT: 22.03 min Scan# 3534

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

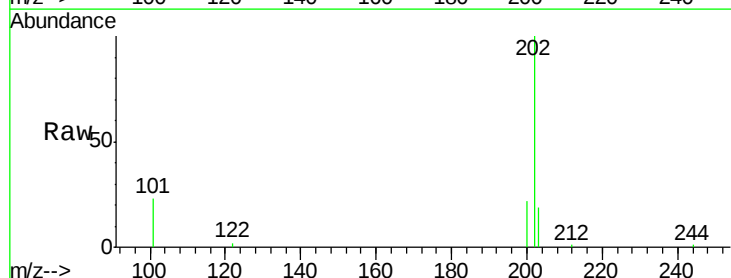
Tgt Ion:202 Resp: 4491

Ion Ratio Lower Upper

202 100

200 20.3 16.4 24.6

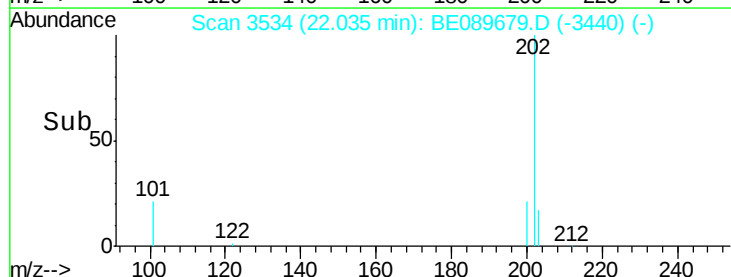
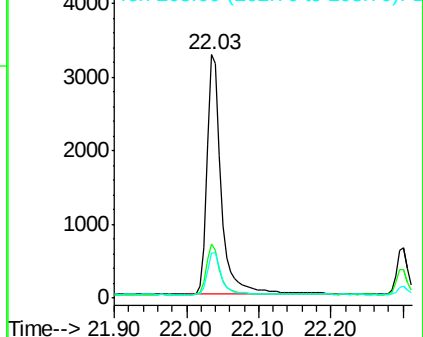
203 17.8 13.9 20.9

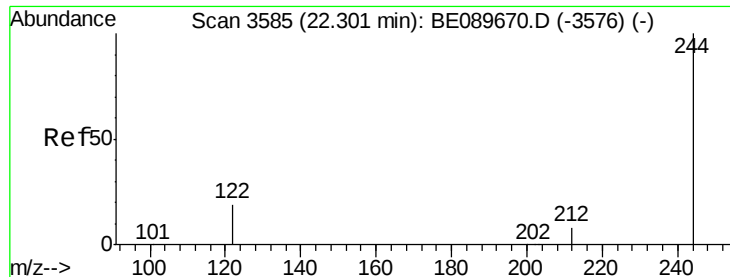


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 12.63 ng

RT: 22.30 min Scan# 3584

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

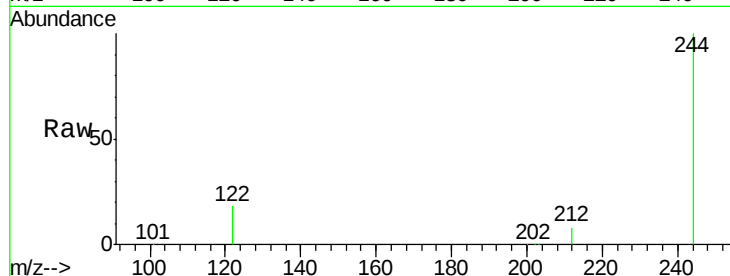
Tgt Ion:244 Resp: 194648

Ion Ratio Lower Upper

244 100

212 8.3 7.0 10.6

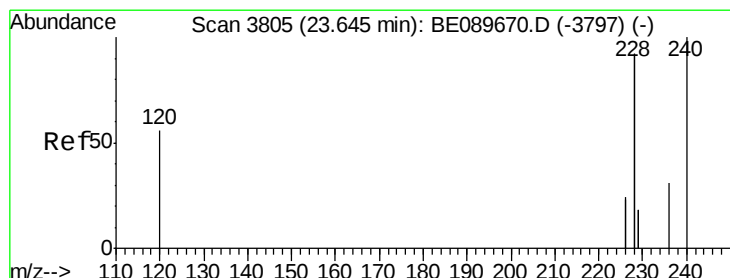
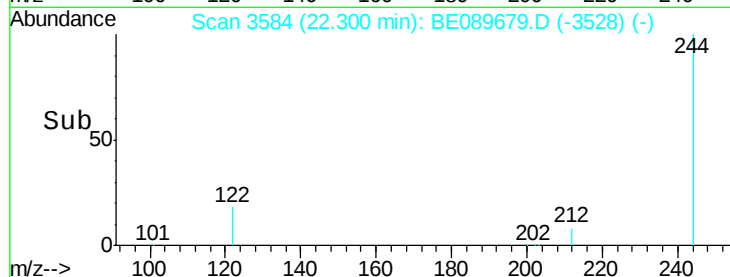
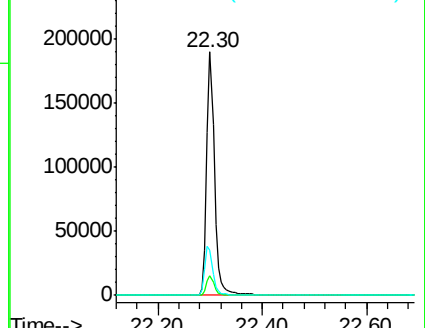
122 18.3 15.4 23.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.14 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

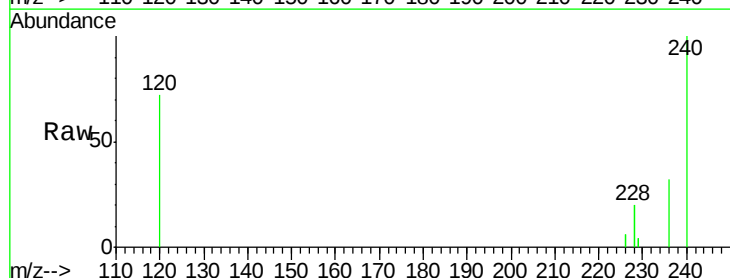
Tgt Ion:228 Resp: 11707

Ion Ratio Lower Upper

228 100

226 28.4 20.6 31.0

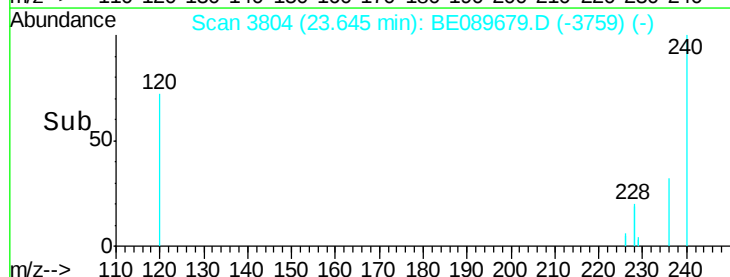
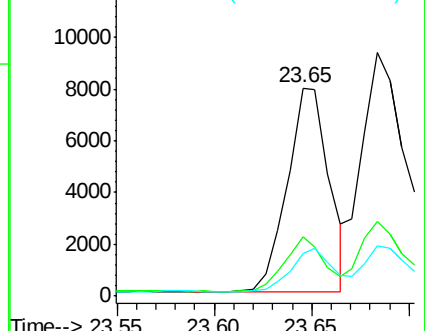
229 20.6 15.8 23.6

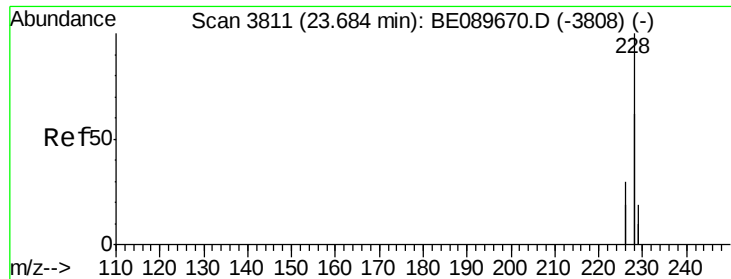


Abundance Ion 228.00 (227.70 to 228.70): E

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# 3810

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

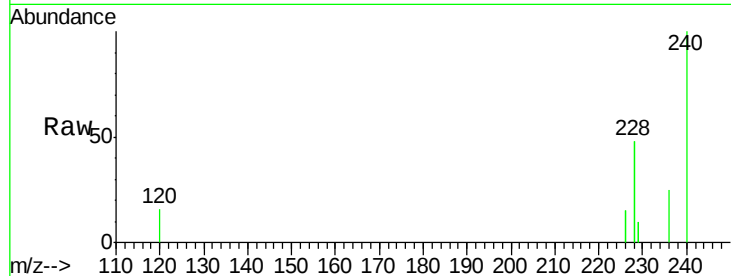
Tgt Ion:228 Resp: 20514

Ion Ratio Lower Upper

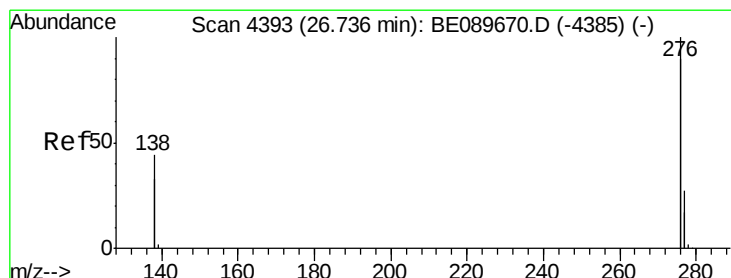
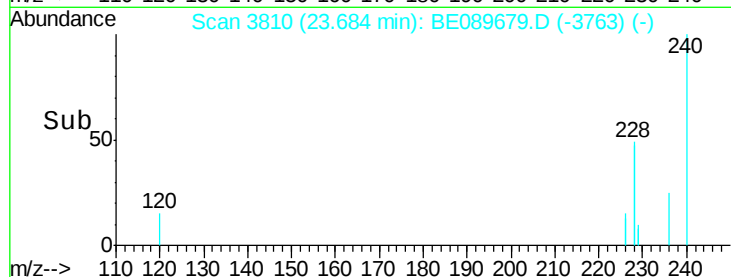
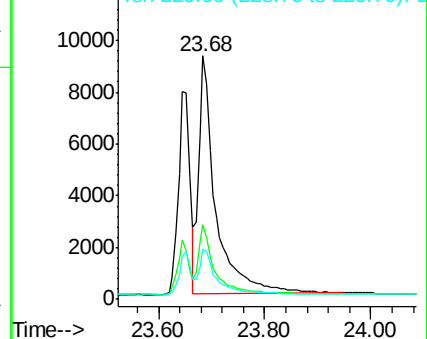
228 100

226 30.6 23.6 35.4

229 20.6 15.3 22.9



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.30 ng

RT: 26.74 min Scan# 4392

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

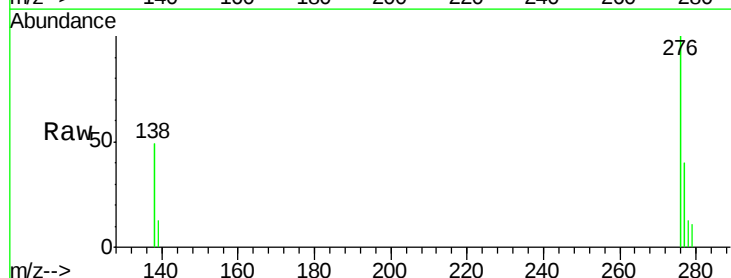
Tgt Ion:276 Resp: 2731

Ion Ratio Lower Upper

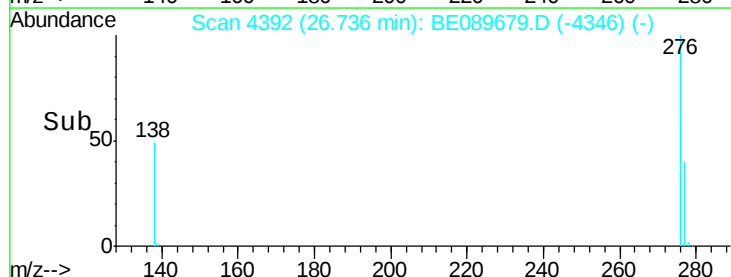
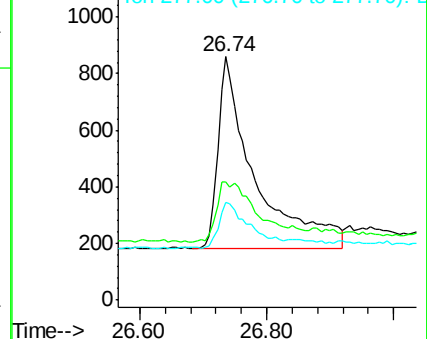
276 100

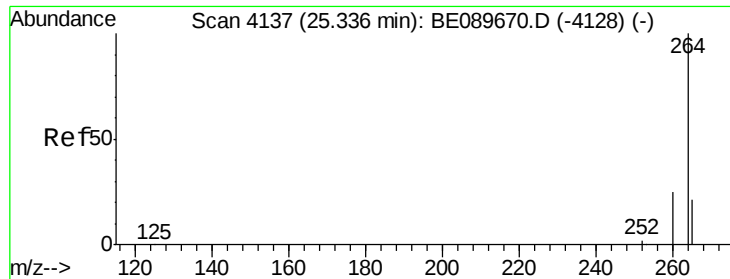
138 37.0 0.0 0.0#

277 19.9 5.2 7.8#



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

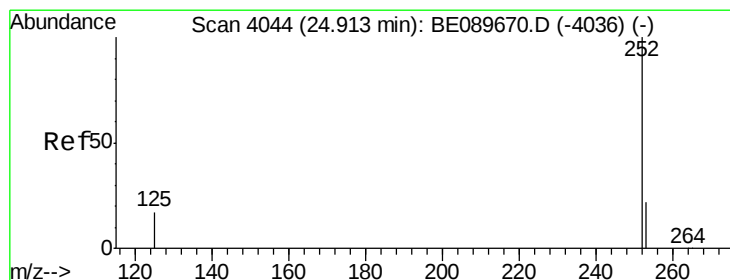
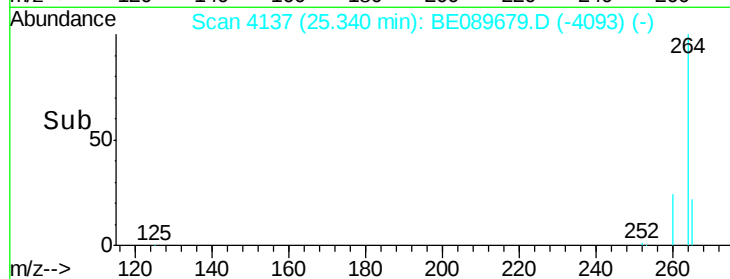
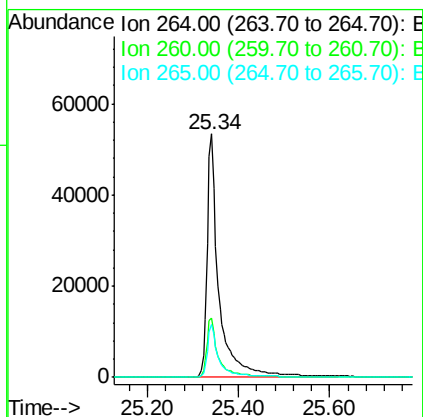
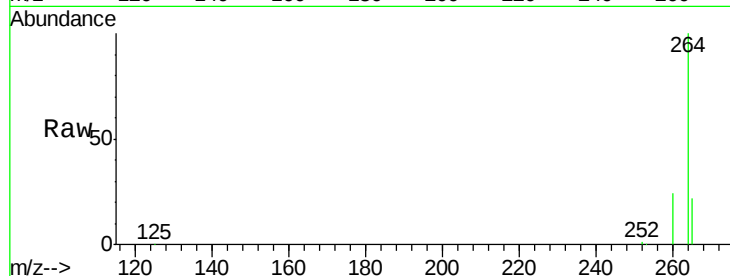




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

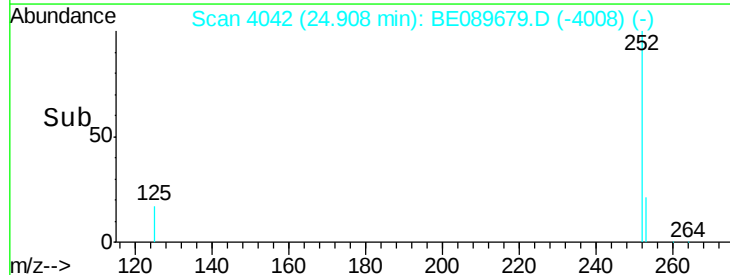
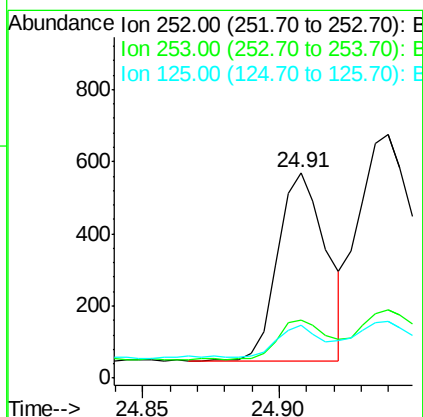
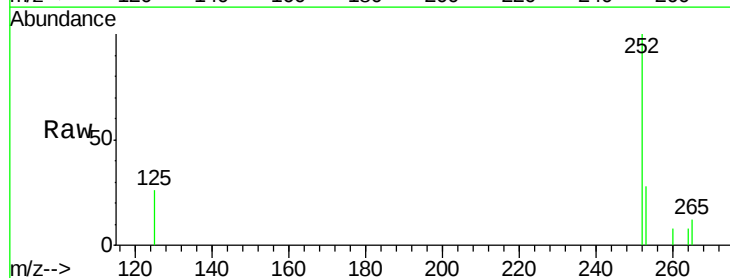
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

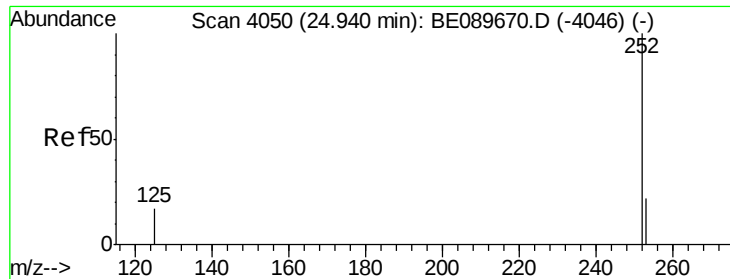
Tgt Ion: 264 Resp: 96509
 Ion Ratio Lower Upper
 264 100
 260 24.2 20.2 30.4
 265 21.6 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.36 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. -0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Tgt Ion: 252 Resp: 644
 Ion Ratio Lower Upper
 252 100
 253 28.2 18.6 27.8#
 125 25.6 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.21 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

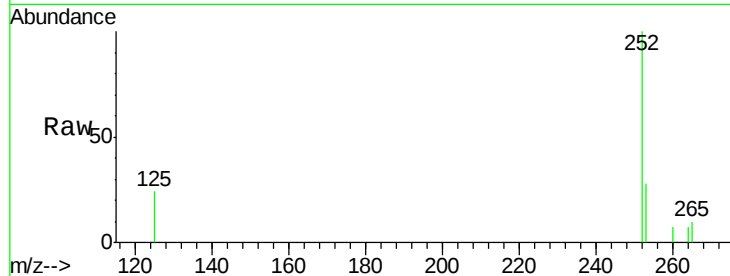
Tgt Ion:252 Resp: 1529

Ion Ratio Lower Upper

252 100

253 28.3 18.0 27.0#

125 23.6 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

24.94

600

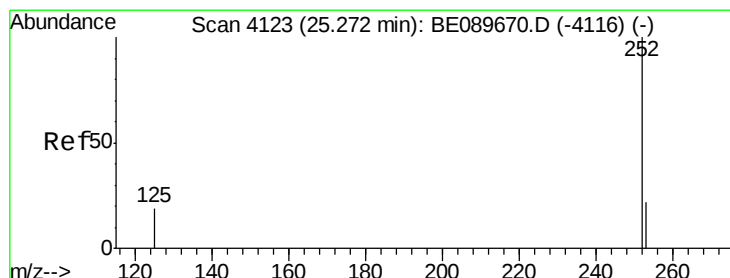
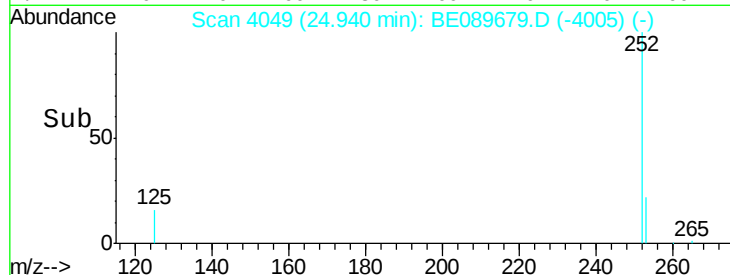
400

200

0

24.90 25.00 25.10

Time-->



#28

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.27 min Scan# 4121

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

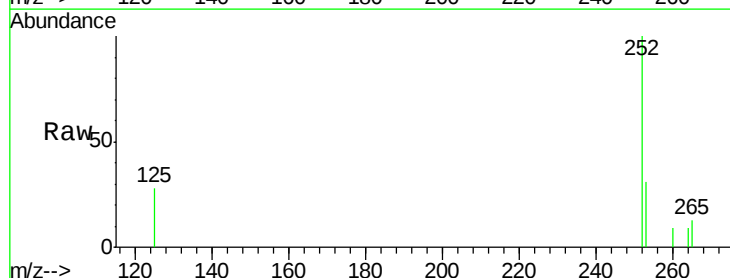
Tgt Ion:252 Resp: 768

Ion Ratio Lower Upper

252 100

253 30.6 18.8 28.2#

125 27.7 16.6 24.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

25.27

600

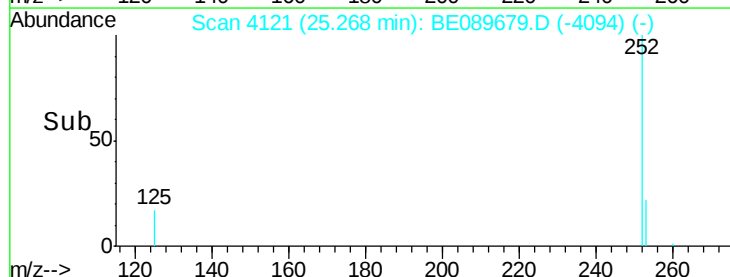
400

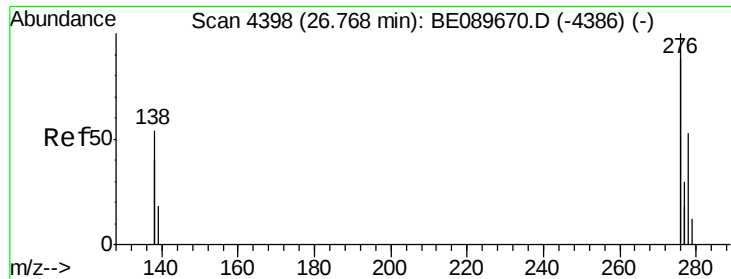
200

0

25.20 25.25 25.30

Time-->





#29

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.77 min Scan# 4397

Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

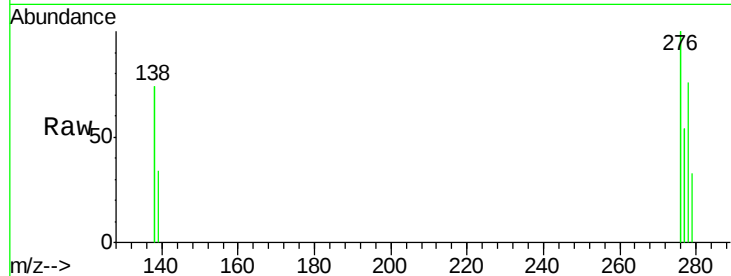
Tgt Ion:278 Resp: 407

Ion Ratio Lower Upper

278 100

139 44.1 30.4 45.6

279 43.6 22.0 33.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

26.77

200

150

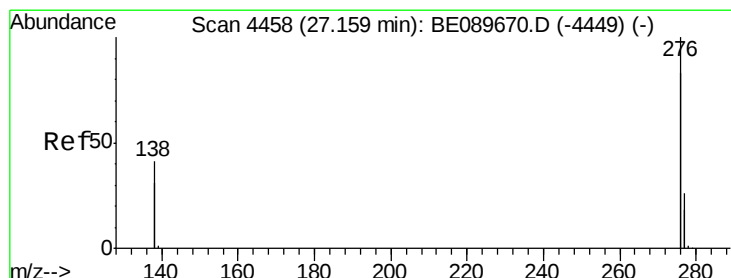
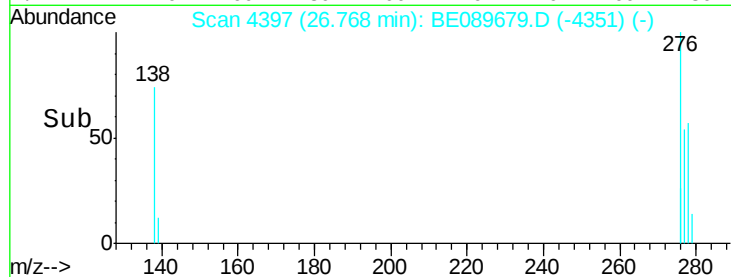
100

50

0

26.70 26.80 26.90

Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.37 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

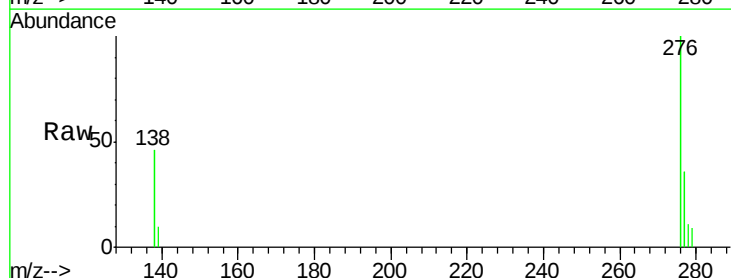
Tgt Ion:276 Resp: 3395

Ion Ratio Lower Upper

276 100

277 36.2 21.0 31.6#

138 45.9 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

27.15

1500

1000

500

0

27.00 27.10 27.20 27.30

Time-->

