

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089635.D
 Acq On : 19 Feb 2015 4:07
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

Quant Time: Feb 19 05:47:01 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	41004	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	163322	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	81195	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	157430	5.00	ng	0.00
19) Chrysene-d12	23.66	240	140421	5.00	ng	0.00
25) Perylene-d12	25.34	264	117848	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	67892	9.56	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	179179	8.24	ng	0.00
21) Terphenyl-d14	22.30	244	206110	10.21	ng	0.00

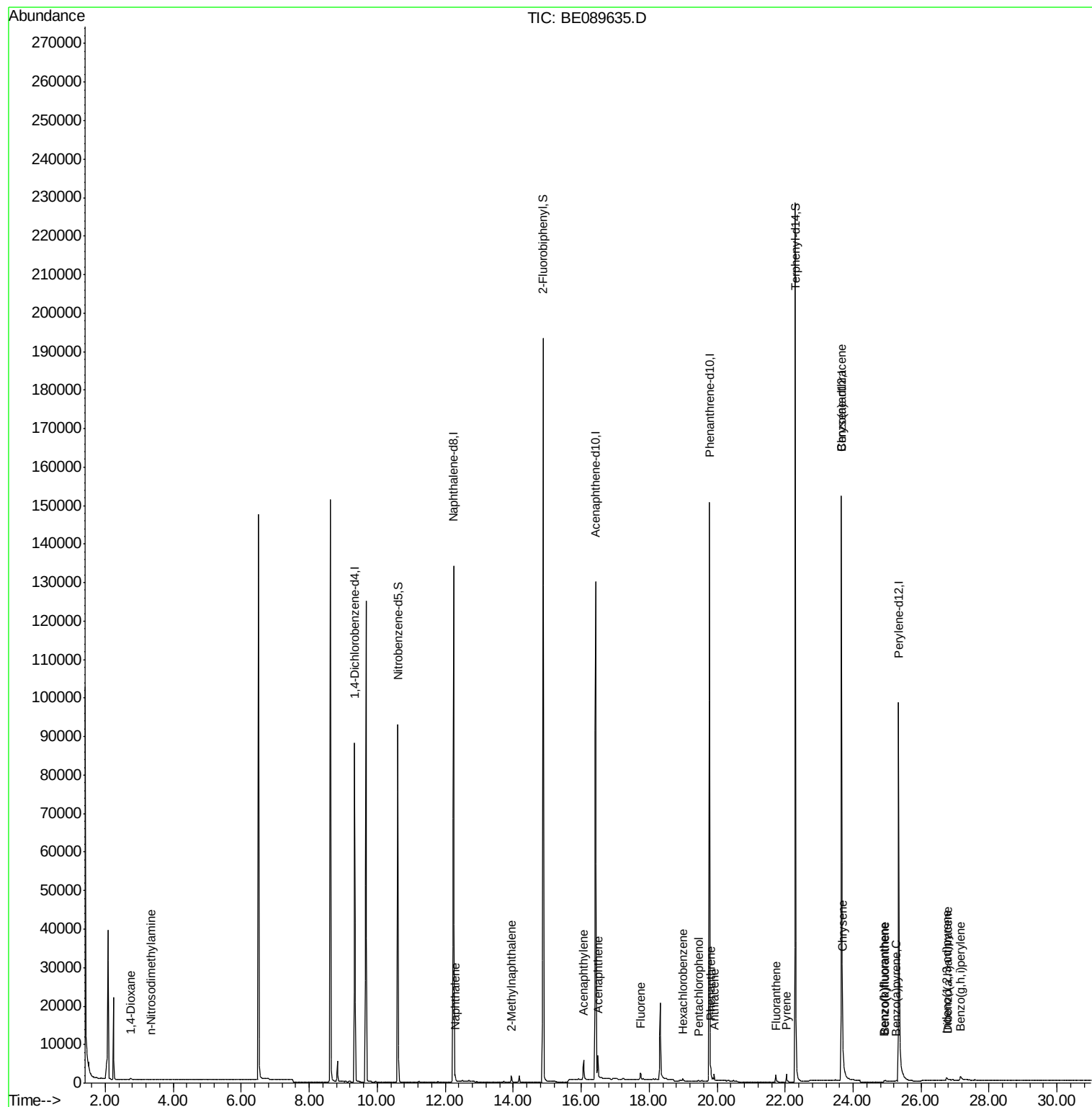
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.74	88	318	0.06	ng	# 81
3) n-Nitrosodimethylamine	3.36	42	8	0.00	ng	# 1
6) Naphthalene	12.29	128	2275	0.06	ng	# 92
7) 2-Methylnaphthalene	13.95	142	1240	0.06	ng	97
10) Acenaphthylene	16.07	152	6867	0.05	ng	99
11) Acenaphthene	16.50	154	1243	0.06	ng	88
12) Fluorene	17.74	166	1385	0.06	ng	98
14) Hexachlorobenzene	19.00	284	439	0.06	ng	93
15) Pentachlorophenol	19.45	266	38	0.00	ng	# 68
16) Phenanthrene	19.81	178	2384	0.06	ng	99
17) Anthracene	19.91	178	1651	0.05	ng	99
18) Fluoranthene	21.72	202	1725	0.05	ng	99
20) Pyrene	22.04	202	1818	0.05	ng	99
22) Benzo(a)anthracene	23.65	228	6302	0.05	ng	95
23) Chrysene	23.69	228	10207	0.07	ng	95
24) Indeno(1,2,3-cd)pyrene	26.74	276	1976	0.19	ng	93
26) Benzo(b)fluoranthene	24.91	252	419	0.28	ng	# 75
27) Benzo(k)fluoranthene	24.94	252	750	0.02	ng	# 76
28) Benzo(a)pyrene	25.27	252	445	0.26	ng	# 75
29) Dibenzo(a,h)anthracene	26.77	278	335	0.24	ng	# 48
30) Benzo(g,h,i)perylene	27.16	276	3044	0.16	ng	# 68

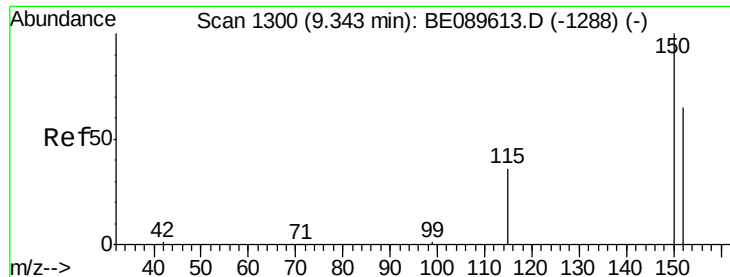
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampled :

MDL-04-S

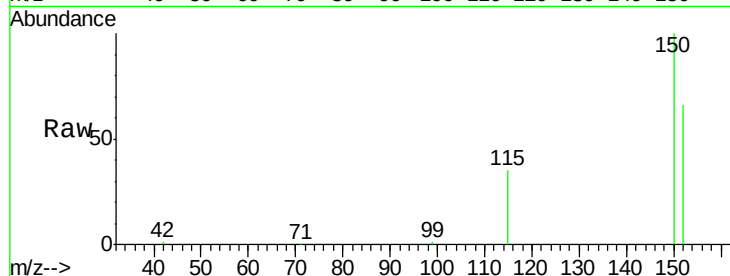
Tgt Ion: 152 Resp: 41004

Ion Ratio Lower Upper

152 100

150 151.7 122.4 183.6

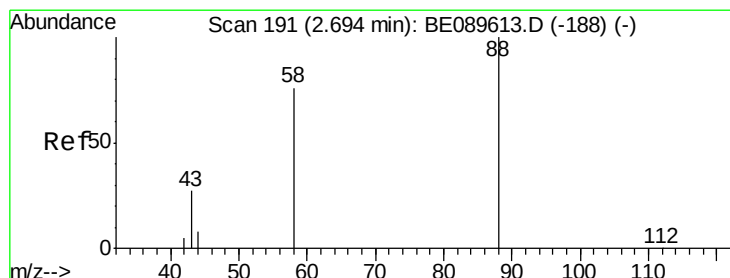
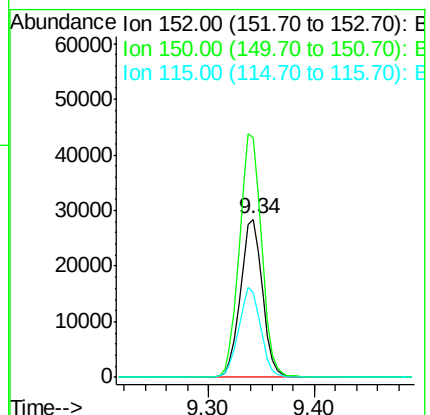
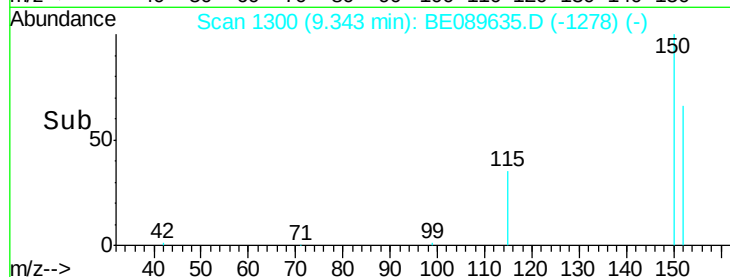
115 53.5 44.2 66.2



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: 0.06 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

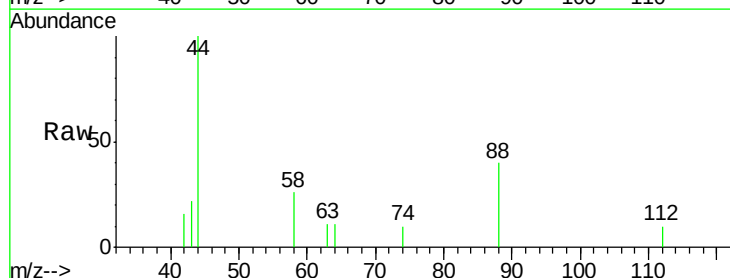
Tgt Ion: 88 Resp: 318

Ion Ratio Lower Upper

88 100

58 62.3 54.6 81.8

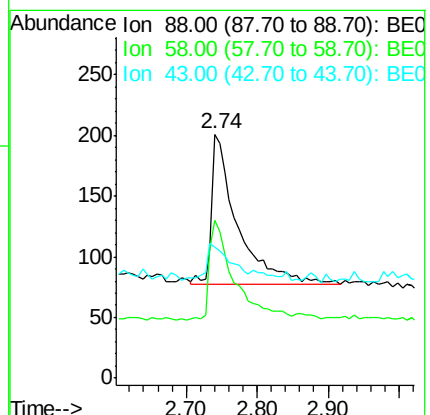
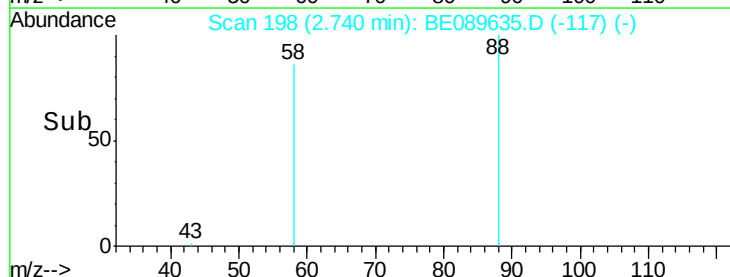
43 0.0 20.6 30.8#

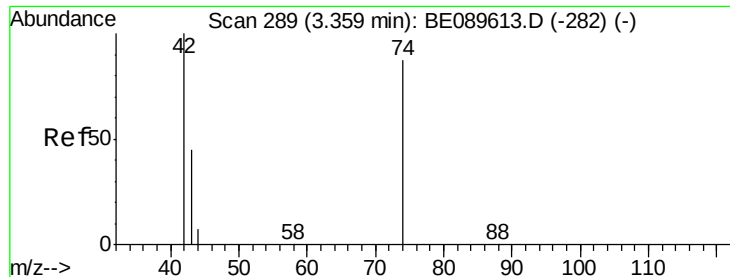


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 3.36 min Scan# 289

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

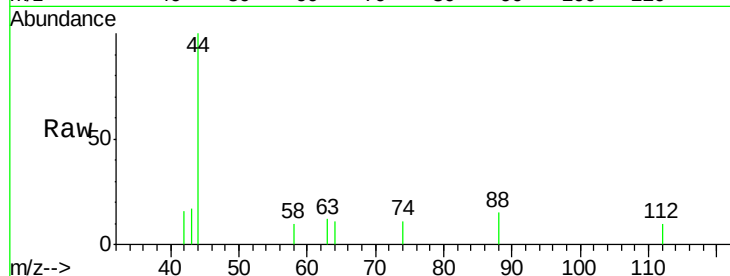
Tgt Ion: 42 Resp: 8

Ion Ratio Lower Upper

42 100

74 0.0 121.4 182.0#

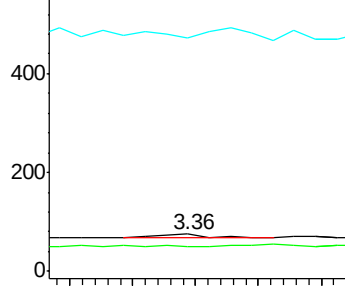
44 300.0 4.5 6.7#



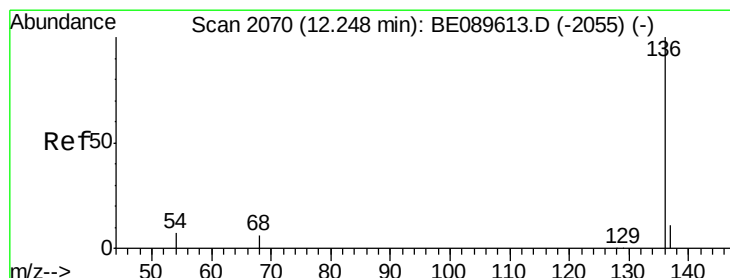
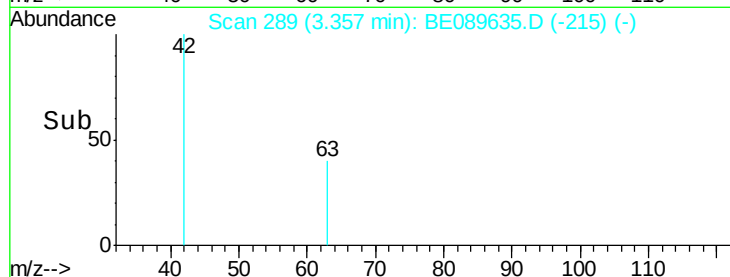
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time--> 3.32 3.34 3.36 3.38 3.40



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2069

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

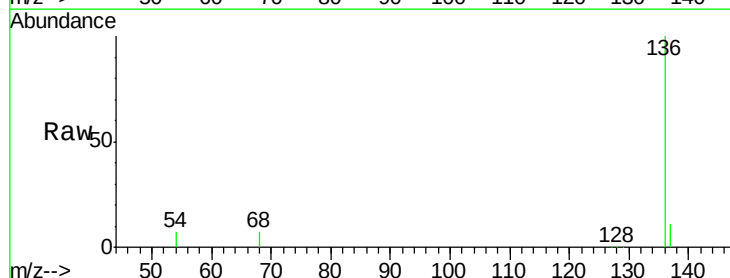
Tgt Ion: 136 Resp: 163322

Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

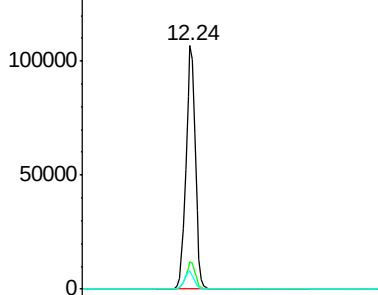
54 7.5 5.3 7.9



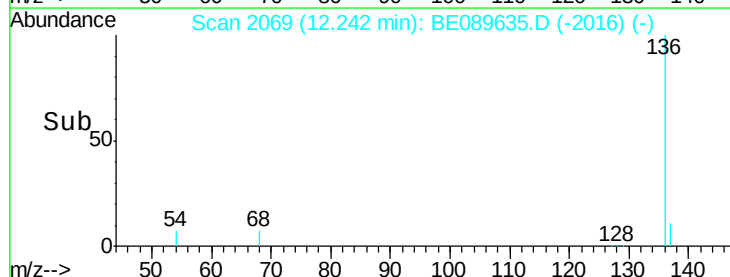
Abundance Ion 136.00 (135.70 to 136.70): E

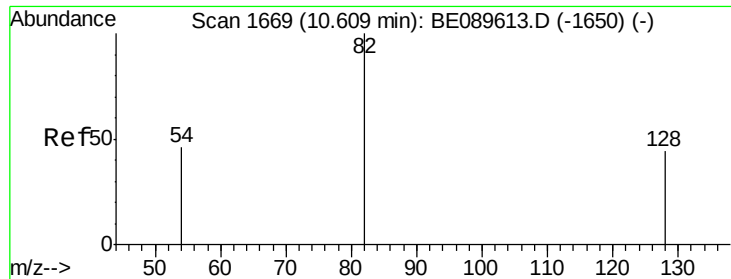
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time--> 12.00 12.20 12.40 12.60





#5

Nitrobenzene-d5

Concen: 9.56 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

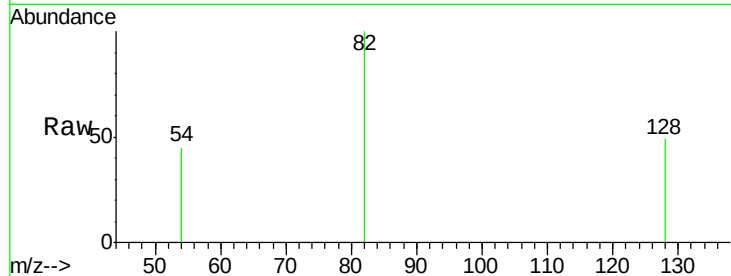
Tgt Ion: 82 Resp: 67892

Ion Ratio Lower Upper

82 100

128 48.8 35.5 53.3

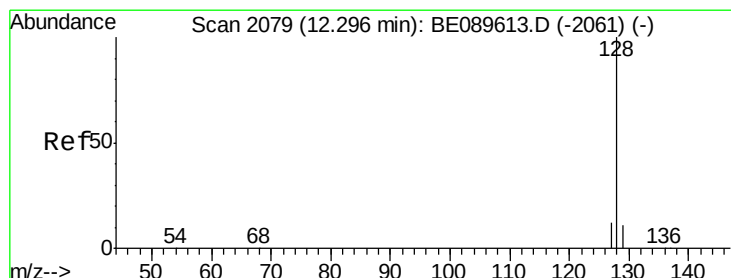
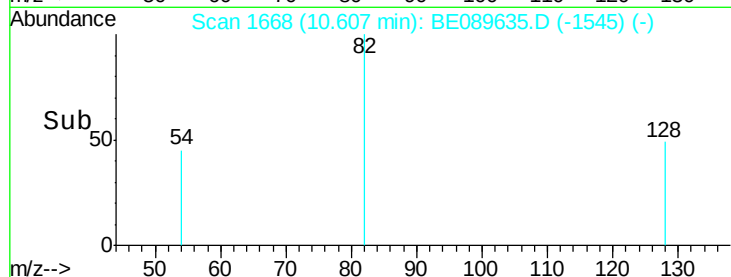
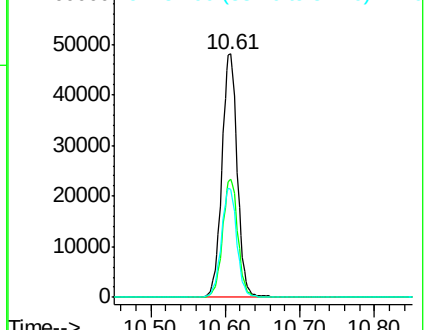
54 44.6 37.5 56.3



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: 0.06 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

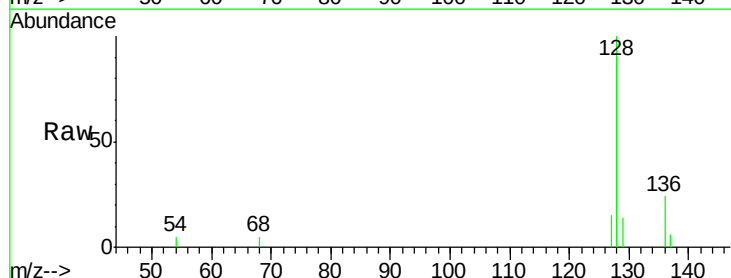
Tgt Ion: 128 Resp: 2275

Ion Ratio Lower Upper

128 100

129 14.3 8.9 13.3#

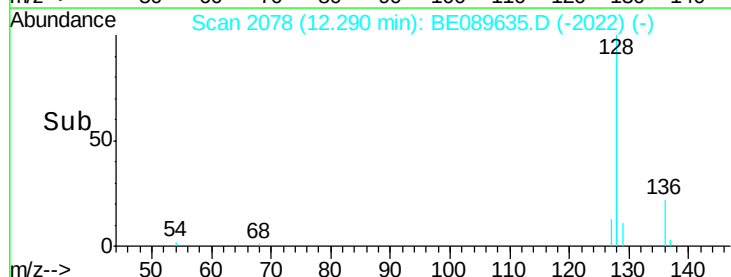
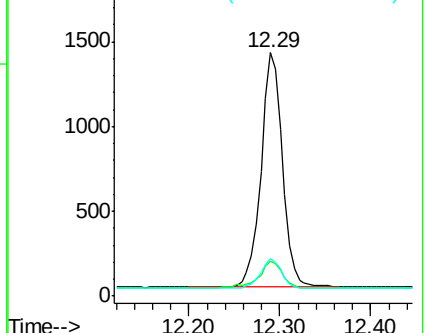
127 15.3 9.8 14.8#

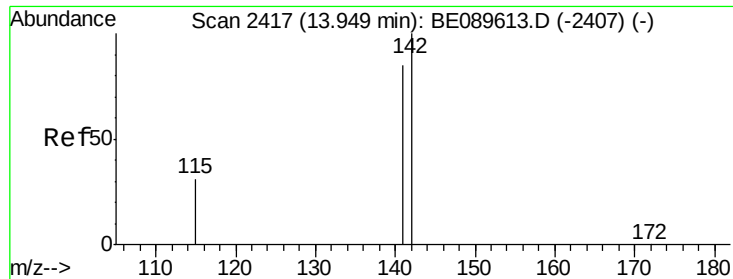


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

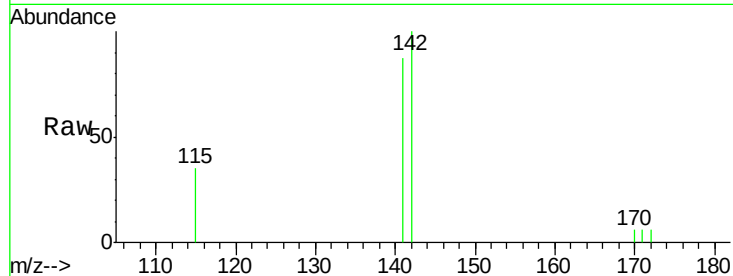
Tgt Ion:142 Resp: 1240

Ion Ratio Lower Upper

142 100

141 87.2 68.3 102.5

115 34.6 25.1 37.7



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

13.95

800

600

400

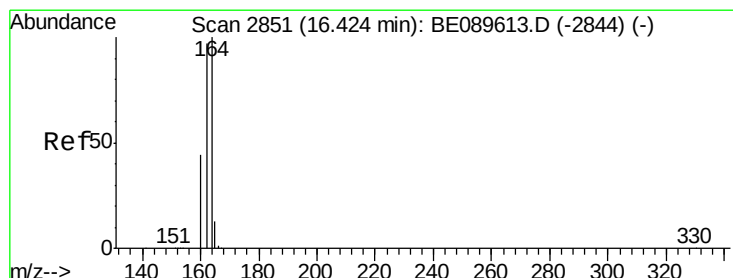
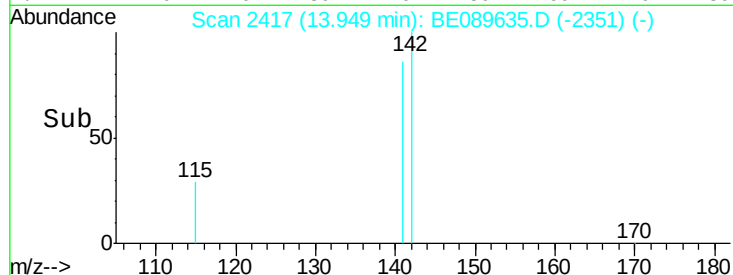
200

0

13.90

14.00

Time-->



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

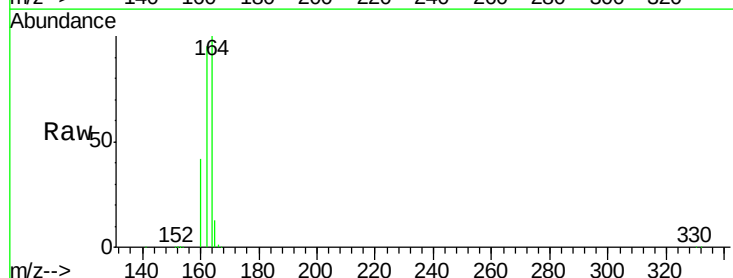
Tgt Ion:164 Resp: 81195

Ion Ratio Lower Upper

164 100

162 94.9 77.5 116.3

160 42.1 35.5 53.3



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

16.42

60000

40000

20000

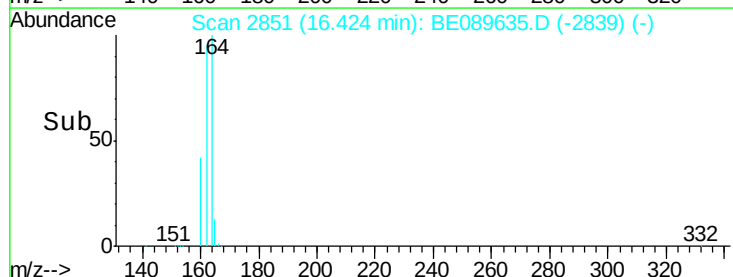
0

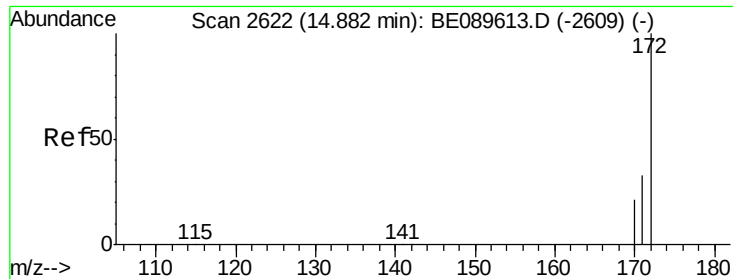
16.20

16.40

16.60

Time-->





#9

2-Fluorobiphenyl

Concen: 8.24 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

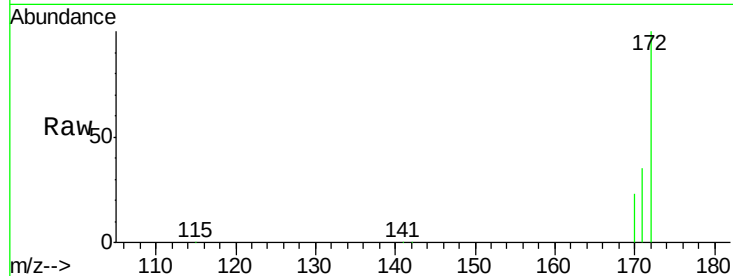
Tgt Ion:172 Resp: 179179

Ion Ratio Lower Upper

172 100

171 34.6 26.9 40.3

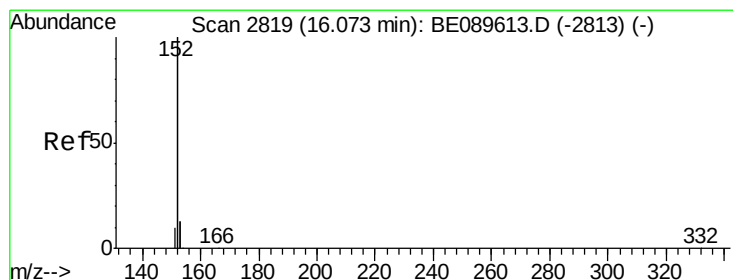
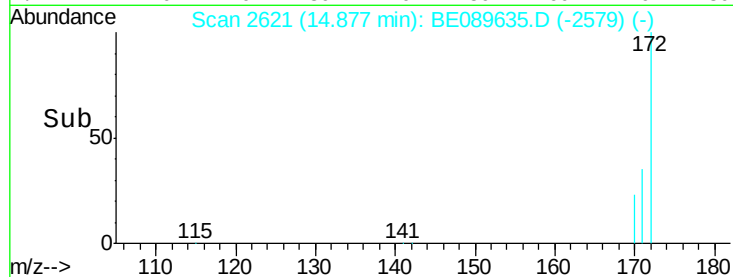
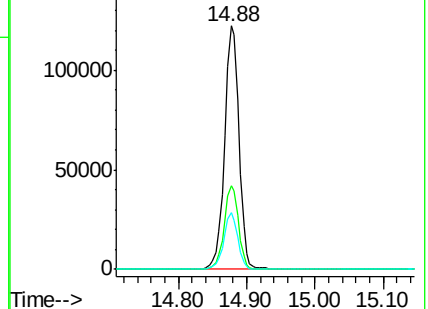
170 23.1 17.4 26.0



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: 0.05 ng

RT: 16.07 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

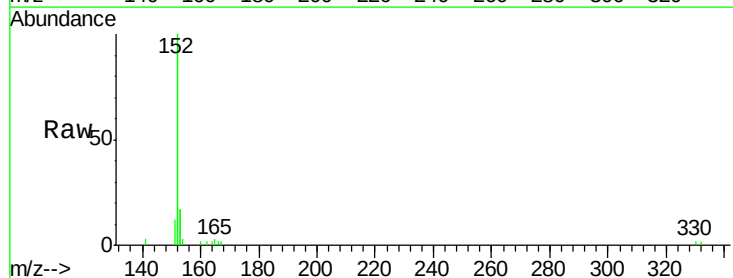
Tgt Ion:152 Resp: 6867

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

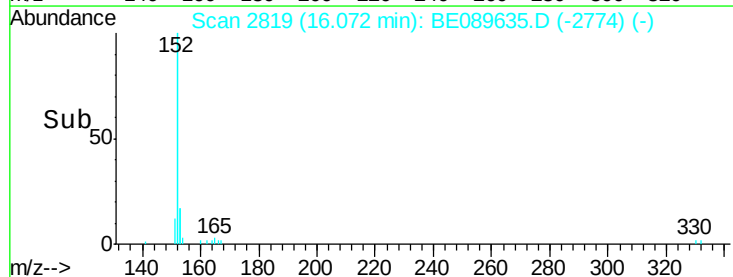
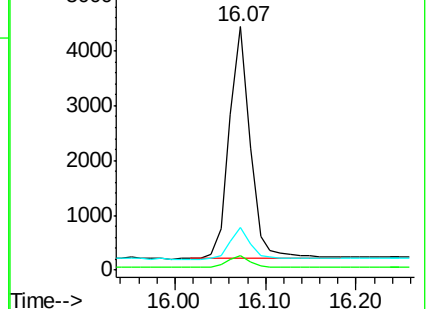
153 13.5 10.5 15.7

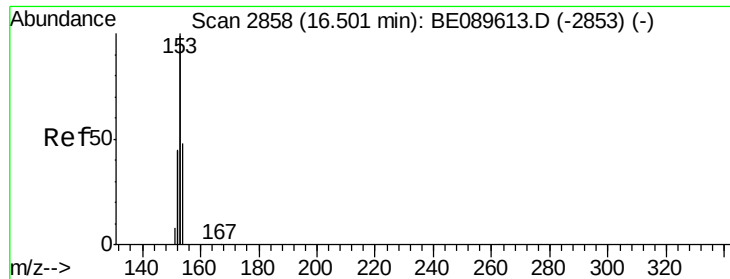


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.06 ng

RT: 16.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

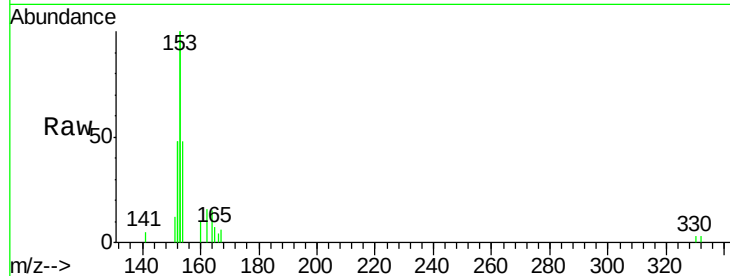
Tgt Ion:154 Resp: 1243

Ion Ratio Lower Upper

154 100

153 453.4 348.9 523.3

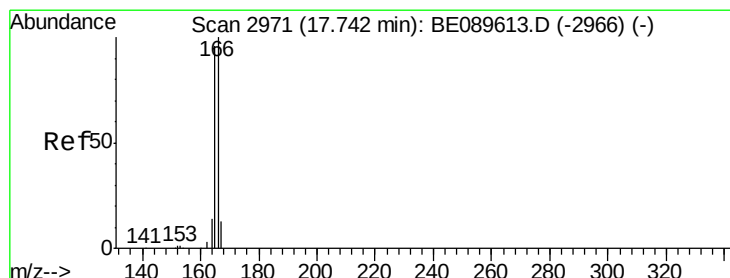
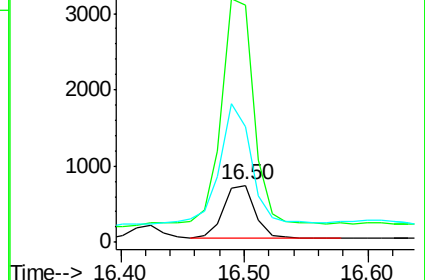
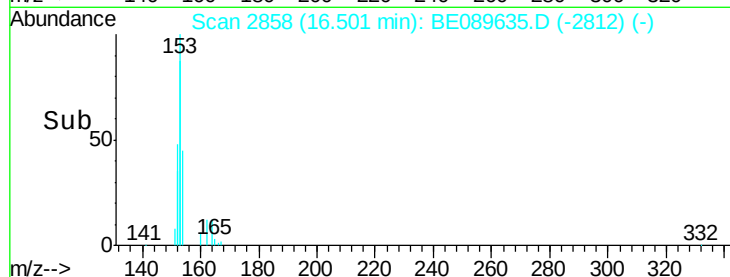
152 242.2 166.6 249.8



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: 0.06 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

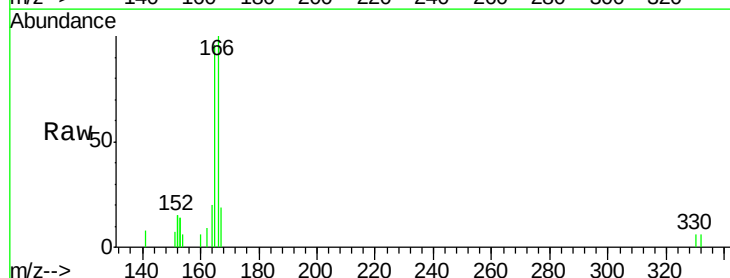
Tgt Ion:166 Resp: 1385

Ion Ratio Lower Upper

166 100

165 91.5 74.7 112.1

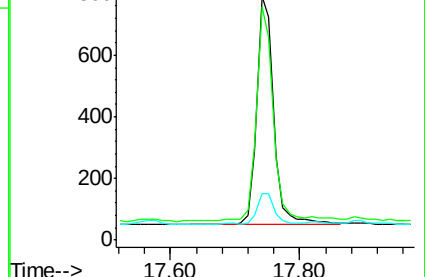
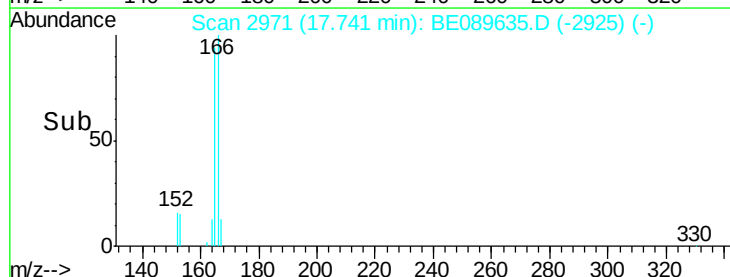
167 14.5 10.5 15.7

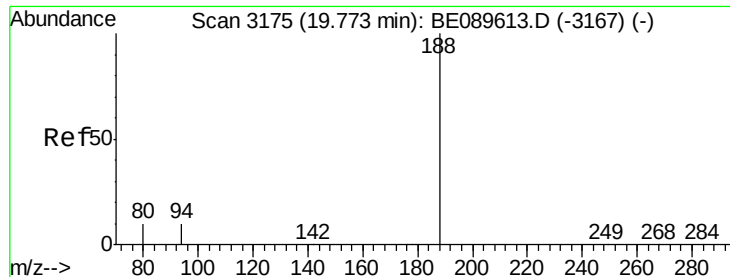


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

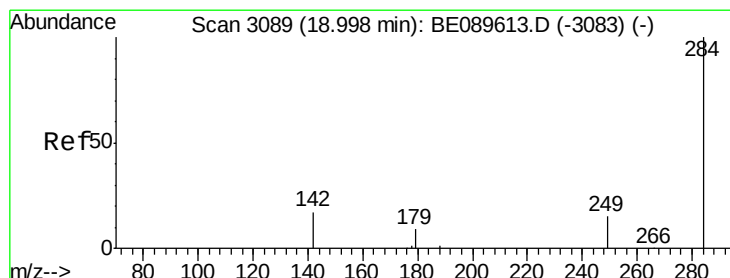
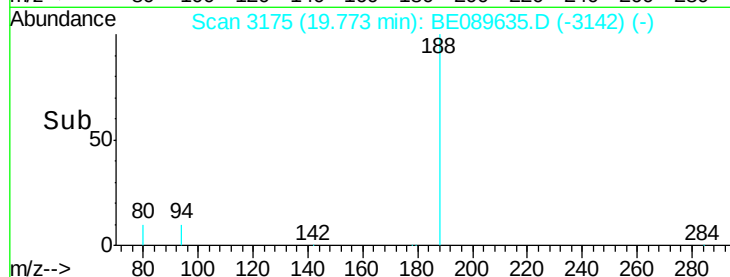
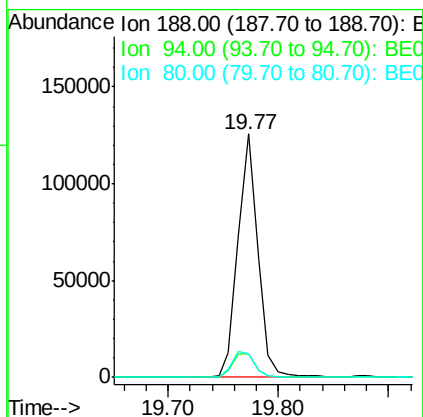
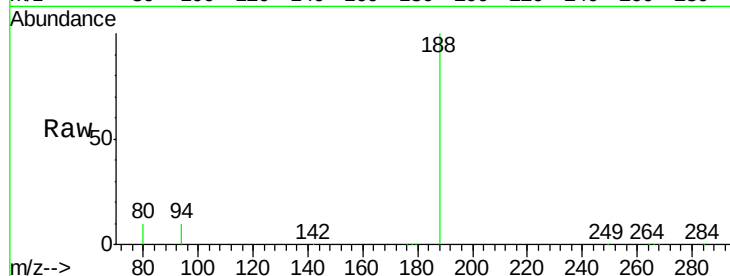




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 4:07

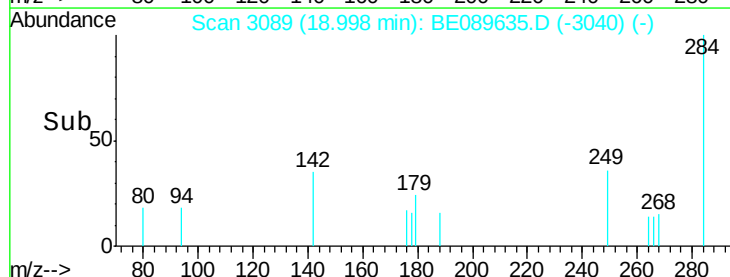
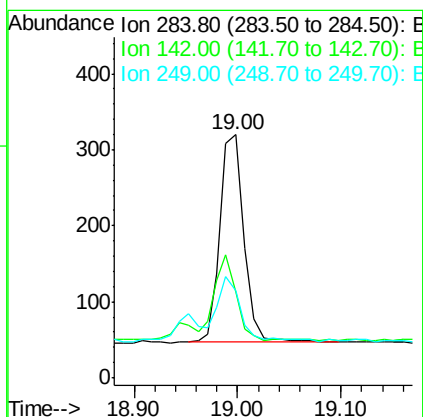
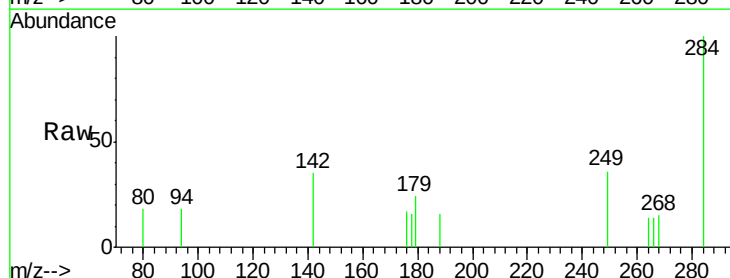
Instrument :
BNA_E
ClientSampleId :
MDL-04-S

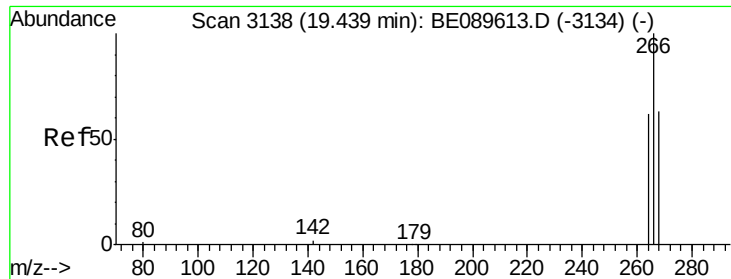
Tgt Ion:188 Resp: 157430
Ion Ratio Lower Upper
188 100
94 9.8 8.2 12.4
80 9.6 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.06 ng
RT: 19.00 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089635.D
Acq: 19 Feb 2015 4:07

Tgt Ion:284 Resp: 439
Ion Ratio Lower Upper
284 100
142 46.0 32.3 48.5
249 29.8 22.3 33.5





#15

Pentachlorophenol

Concen: 0.00 ng

RT: 19.45 min Scan# 3139

Delta R.T. 0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

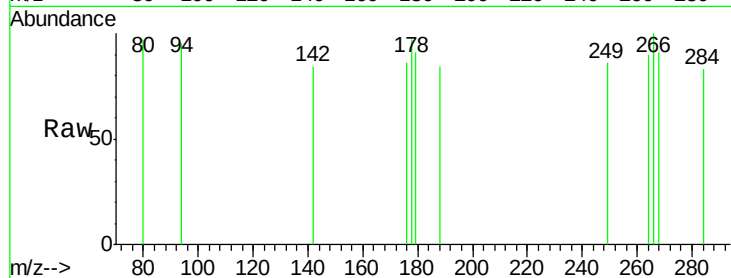
Tgt Ion: 266 Resp: 38

Ion Ratio Lower Upper

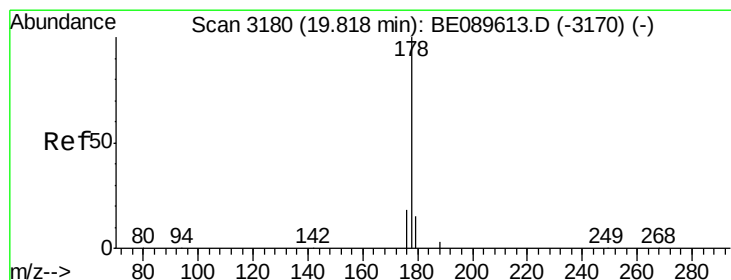
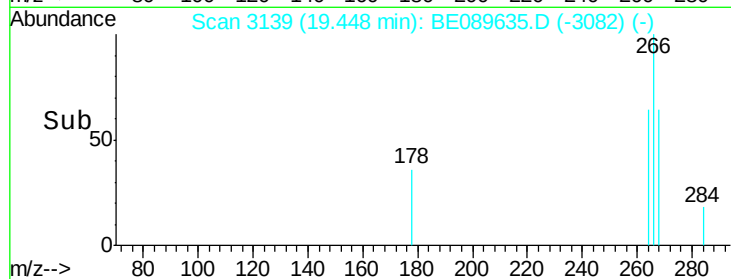
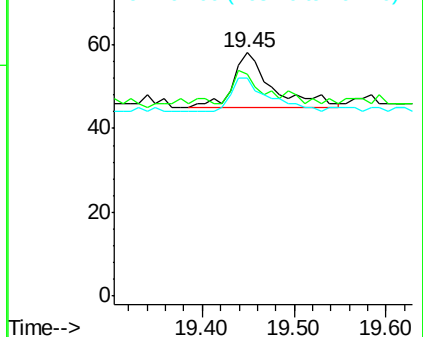
266 100

268 91.4 52.6 79.0#

264 89.7 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: 0.06 ng

RT: 19.81 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

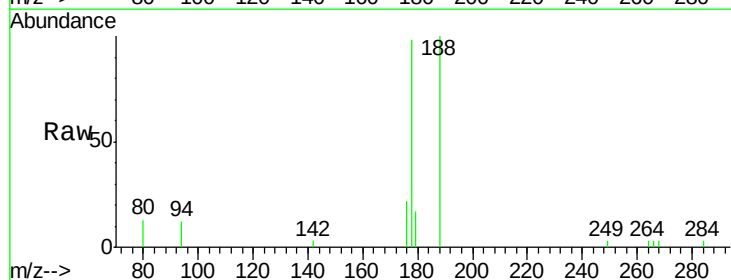
Tgt Ion: 178 Resp: 2384

Ion Ratio Lower Upper

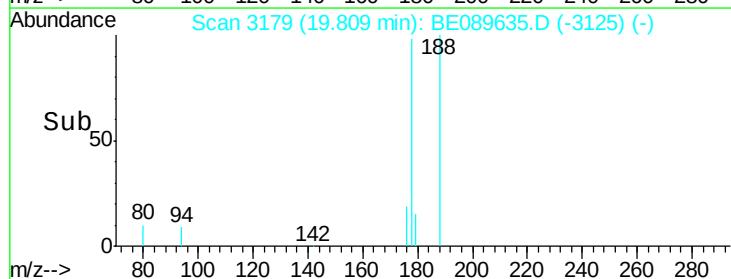
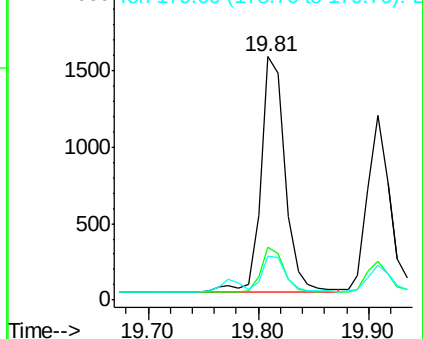
178 100

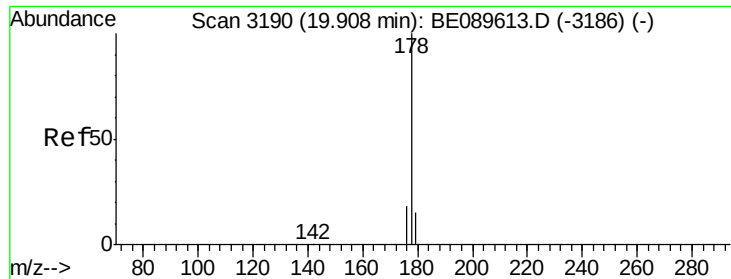
176 18.5 15.1 22.7

179 15.0 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: 0.05 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

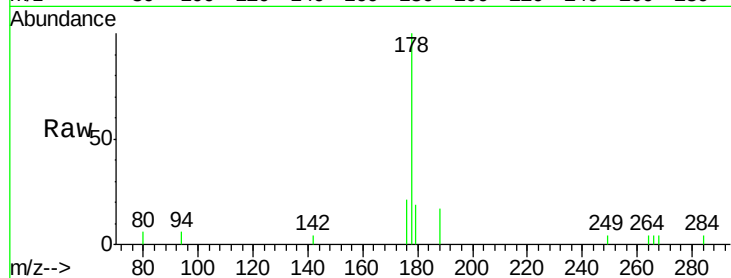
Tgt Ion:178 Resp: 1651

Ion Ratio Lower Upper

178 100

176 17.9 14.6 22.0

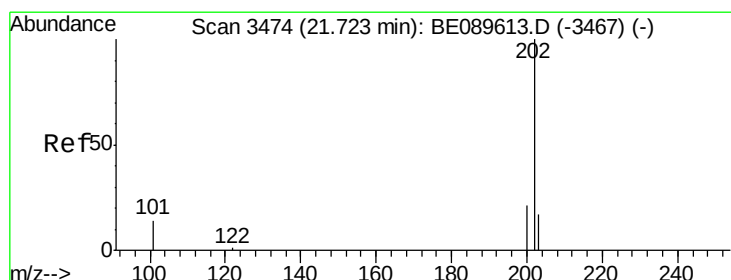
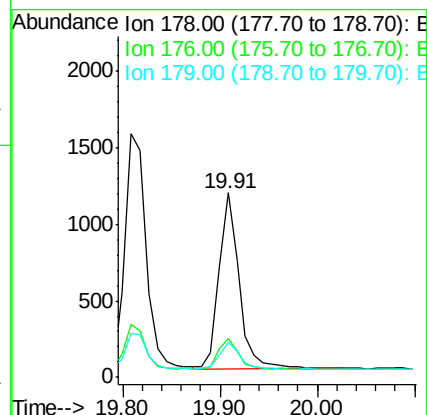
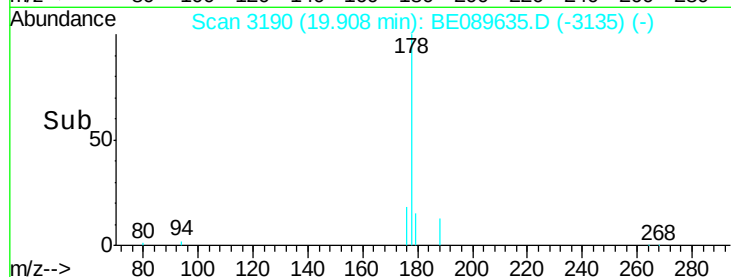
179 15.8 12.3 18.5



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



#18

Fluoranthene

Concen: 0.05 ng

RT: 21.72 min Scan# 3474

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

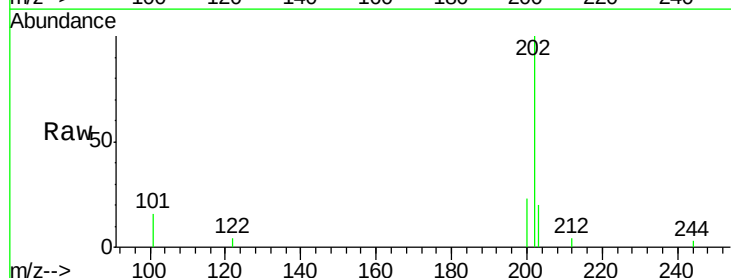
Tgt Ion:202 Resp: 1725

Ion Ratio Lower Upper

202 100

101 12.3 10.4 15.6

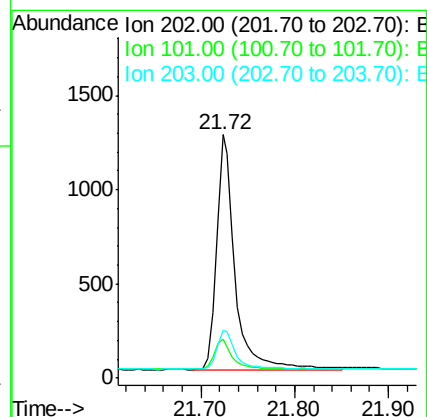
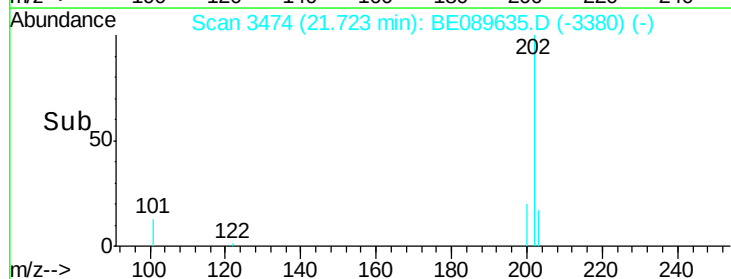
203 17.5 13.9 20.9

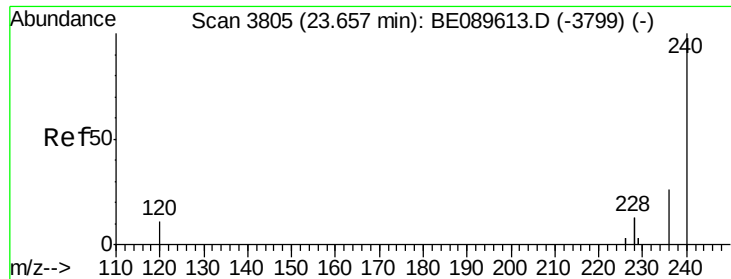


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

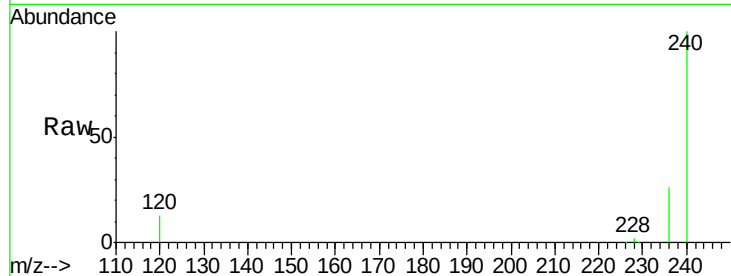
Tgt Ion:240 Resp: 140421

Ion Ratio Lower Upper

240 100

120 12.7 9.0 13.4

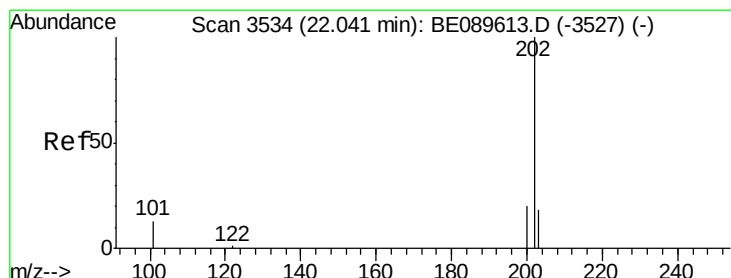
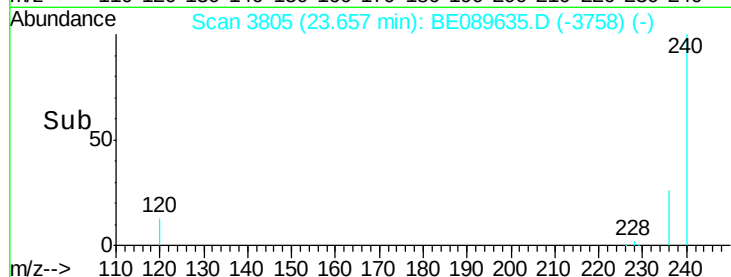
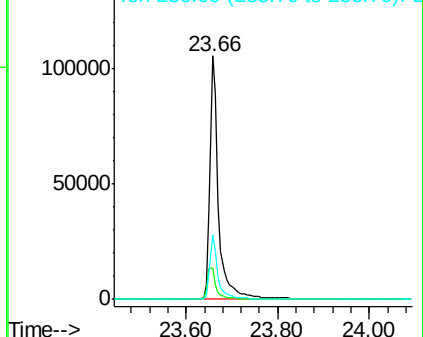
236 26.4 21.0 31.6



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: 0.05 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

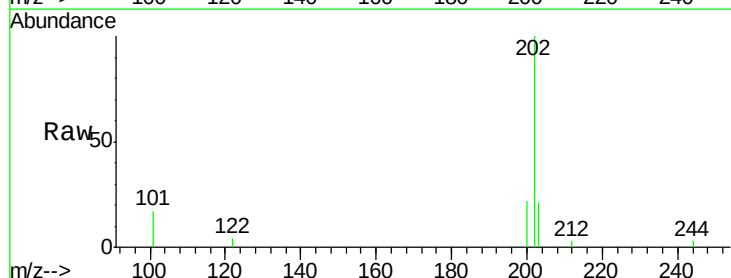
Tgt Ion:202 Resp: 1818

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

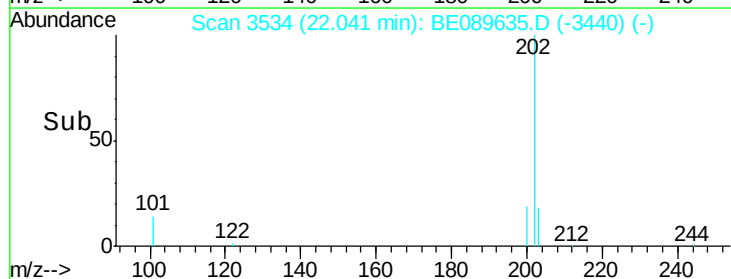
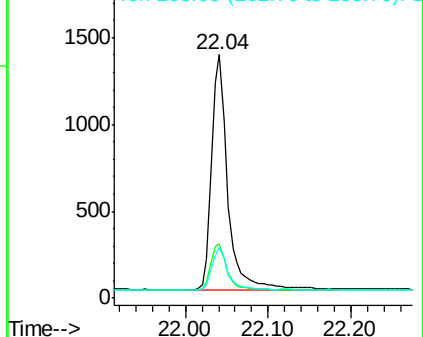
203 17.8 13.8 20.8

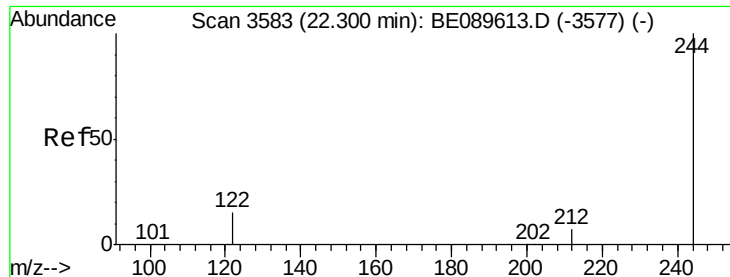


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 10.21 ng

RT: 22.30 min Scan# 3583

Delta R.T. 0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

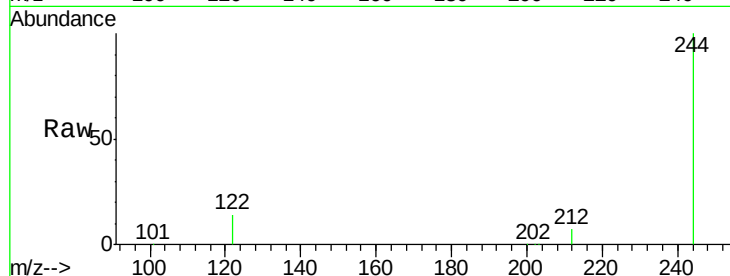
Tgt Ion:244 Resp: 206110

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

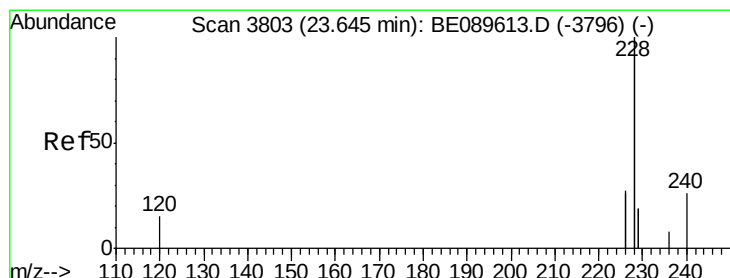
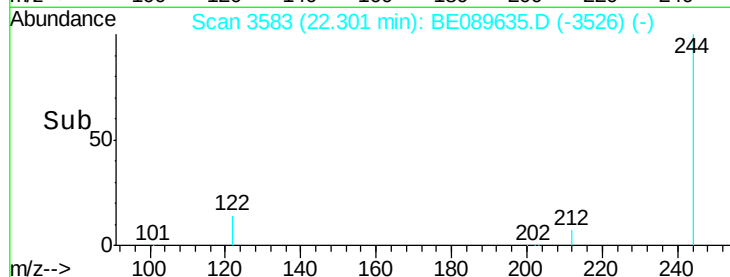
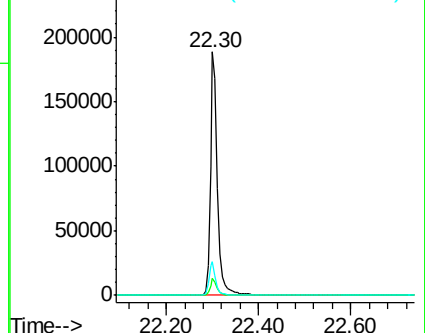
122 13.7 11.8 17.8



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: 0.05 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

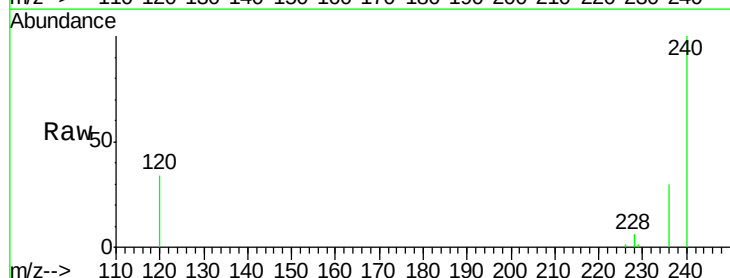
Tgt Ion:228 Resp: 6302

Ion Ratio Lower Upper

228 100

226 25.3 21.2 31.8

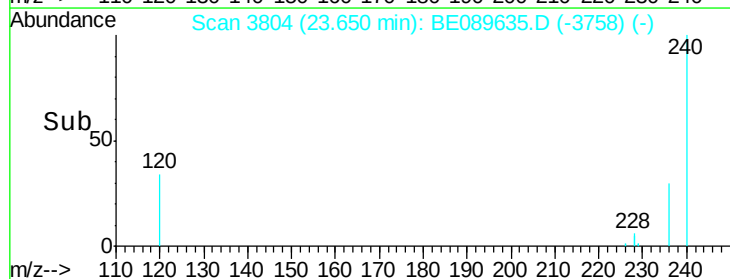
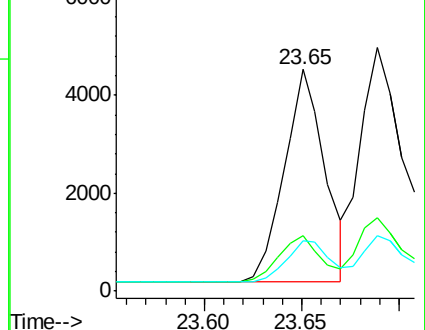
229 22.7 15.2 22.8

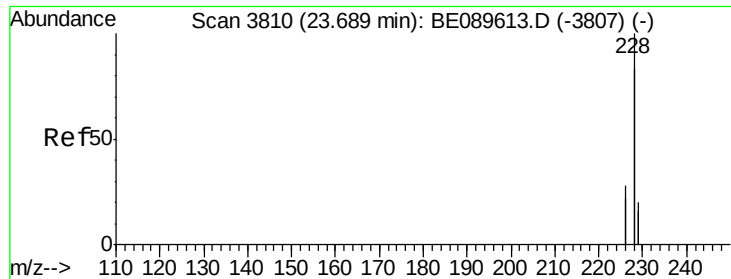


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.07 ng

RT: 23.69 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

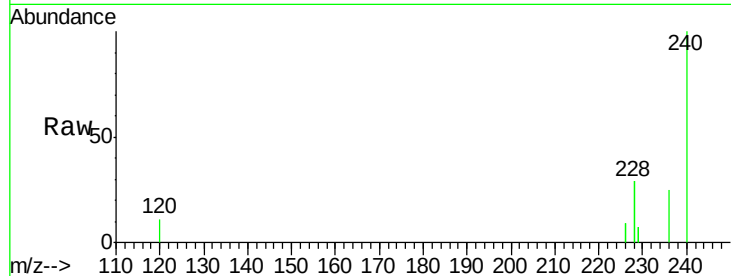
Tgt Ion:228 Resp: 10207

Ion Ratio Lower Upper

228 100

226 30.1 22.2 33.4

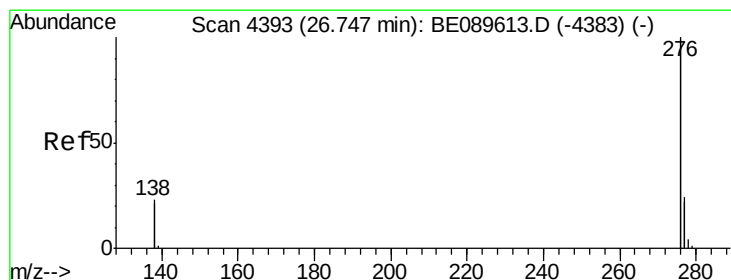
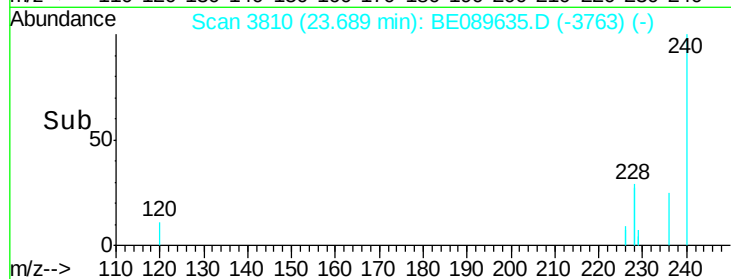
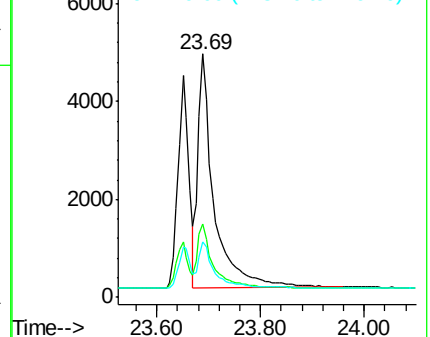
229 22.9 16.0 24.0



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: 0.19 ng

RT: 26.74 min Scan# 4392

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

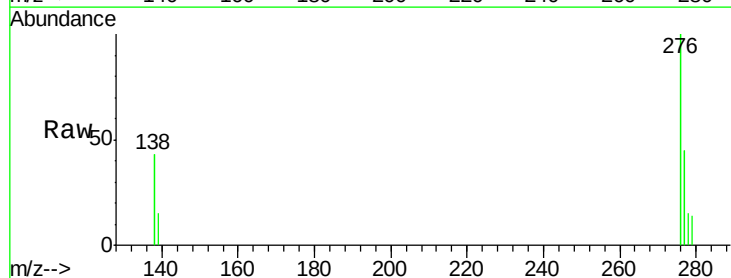
Tgt Ion:276 Resp: 1976

Ion Ratio Lower Upper

276 100

138 22.1 21.4 32.2

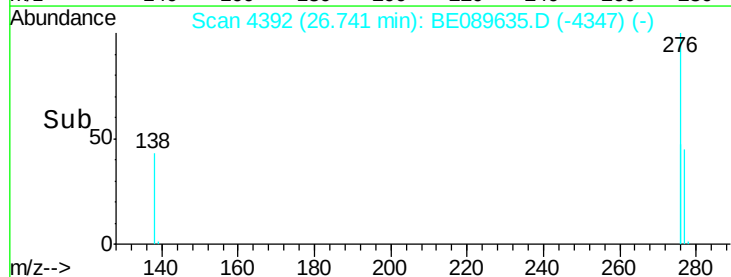
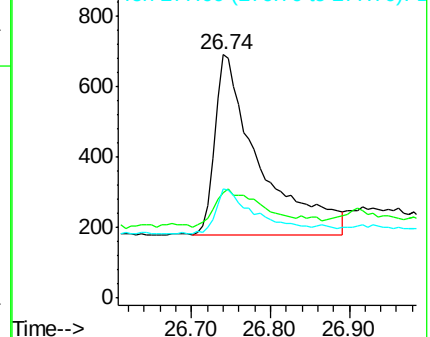
277 22.9 19.9 29.9

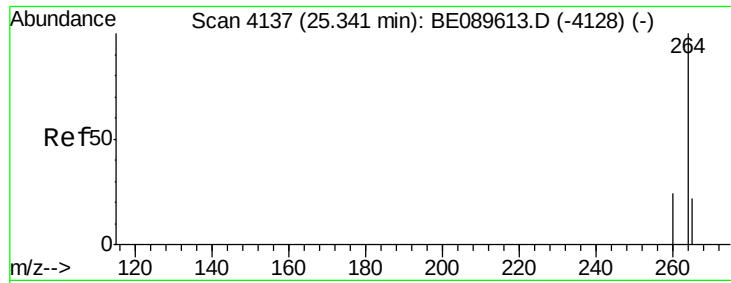


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

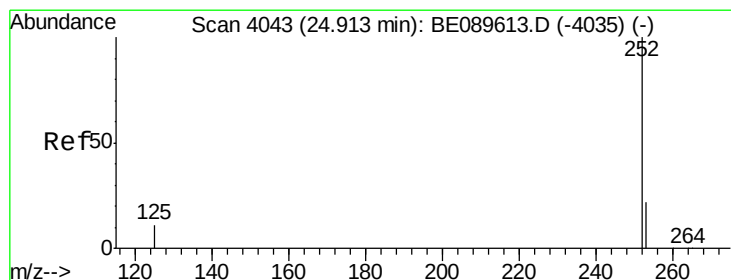
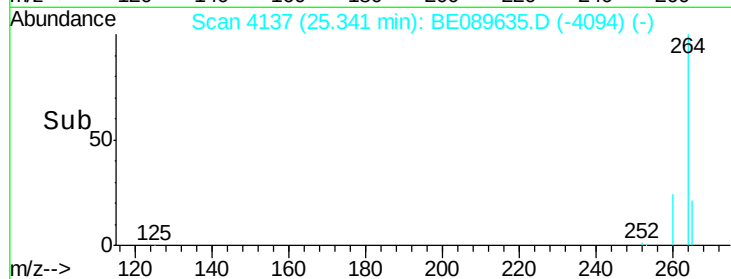
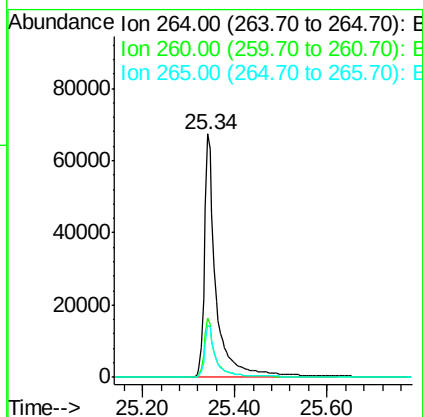
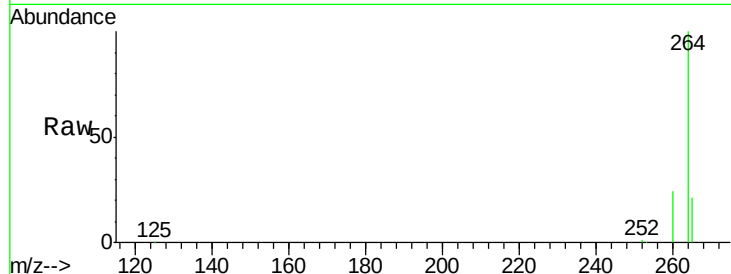




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 4:07

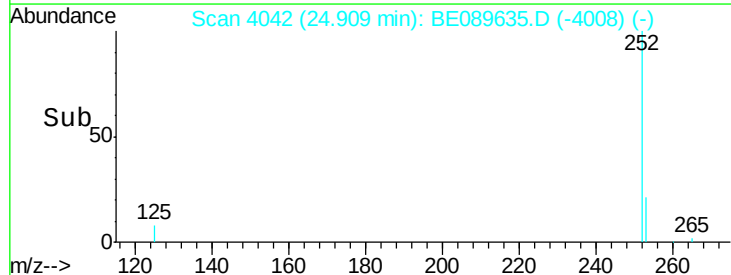
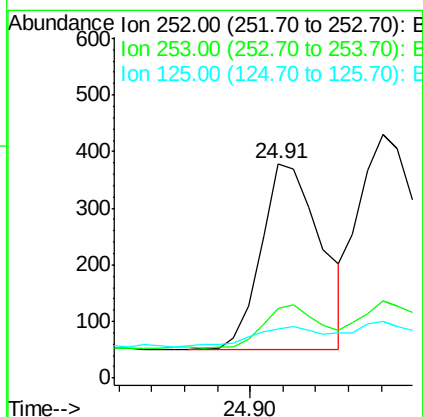
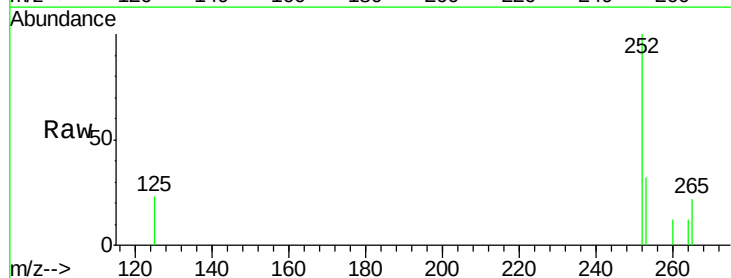
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

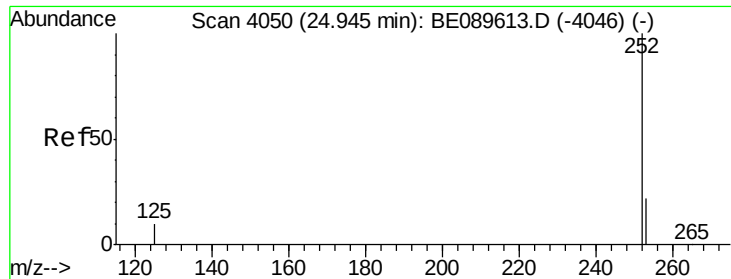
Tgt Ion: 264 Resp: 117848
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.0 28.6
 265 21.1 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.28 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. -0.00 min
 Lab File: BE089635.D
 Acq: 19 Feb 2015 4:07

Tgt Ion: 252 Resp: 419
 Ion Ratio Lower Upper
 252 100
 253 32.5 17.6 26.4#
 125 23.0 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

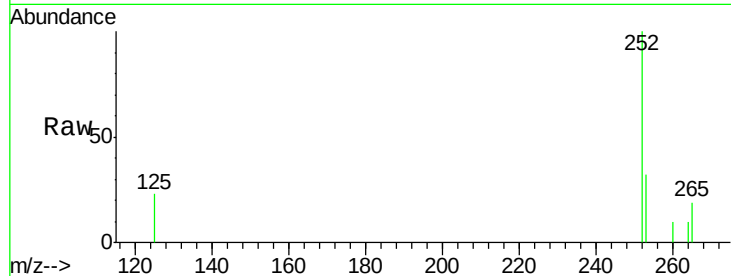
Tgt Ion:252 Resp: 750

Ion Ratio Lower Upper

252 100

253 31.6 17.7 26.5#

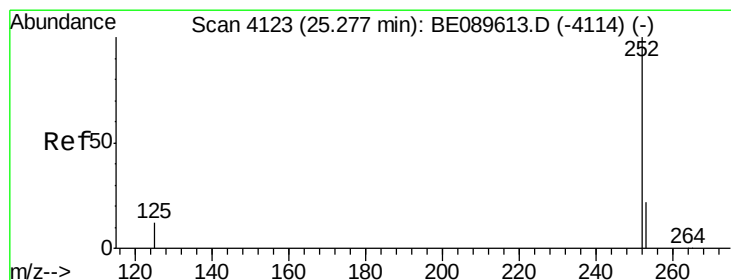
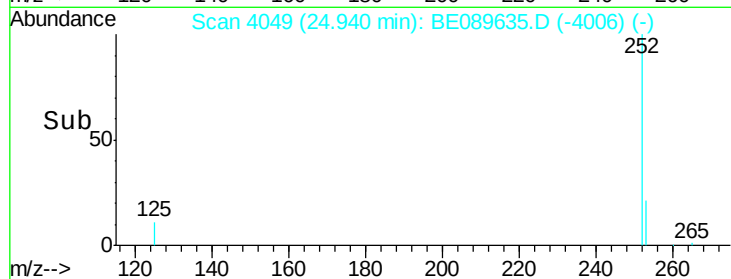
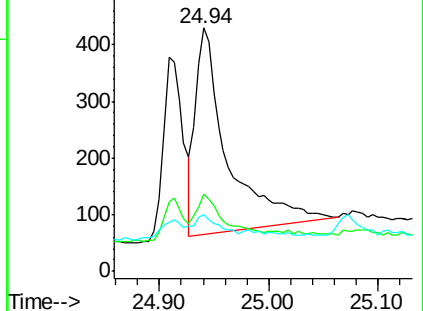
125 23.3 8.8 13.2#



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: 0.26 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

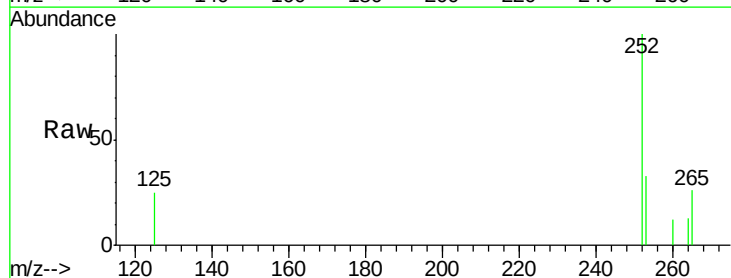
Tgt Ion:252 Resp: 445

Ion Ratio Lower Upper

252 100

253 32.7 18.1 27.1#

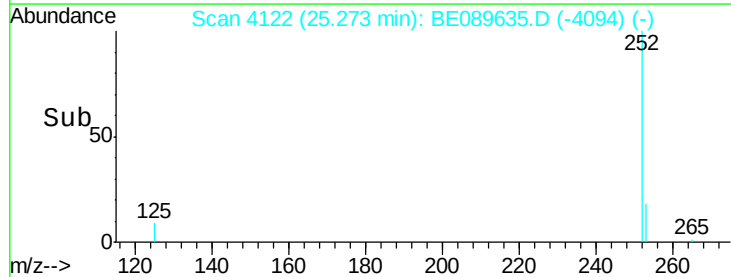
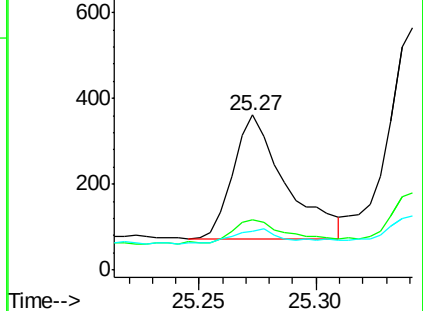
125 25.2 9.6 14.4#

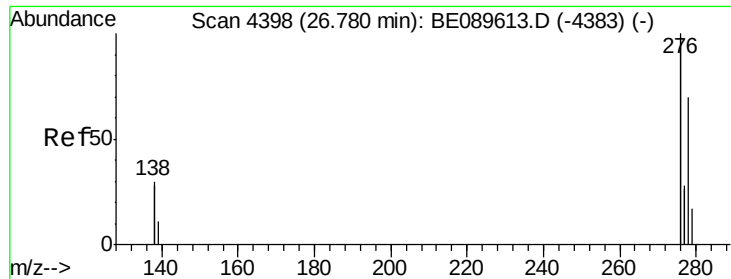


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.24 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

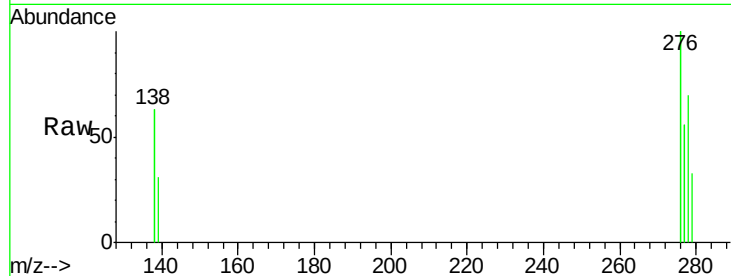
Tgt Ion:278 Resp: 335

Ion Ratio Lower Upper

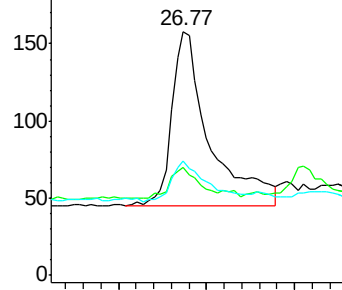
278 100

139 44.3 13.7 20.5#

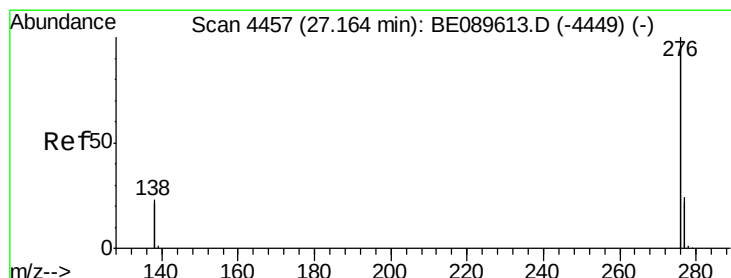
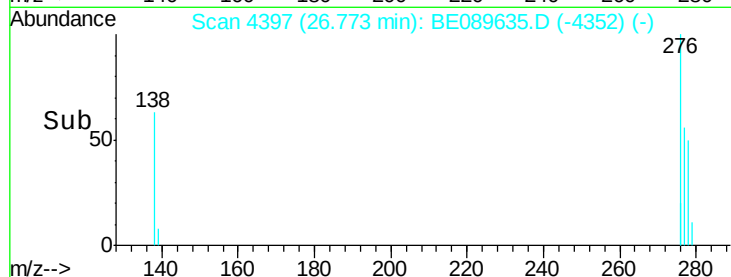
279 46.8 19.7 29.5#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089635.D

Acq: 19 Feb 2015 4:07

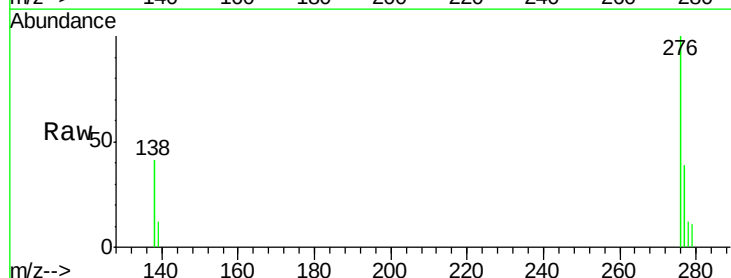
Tgt Ion:276 Resp: 3044

Ion Ratio Lower Upper

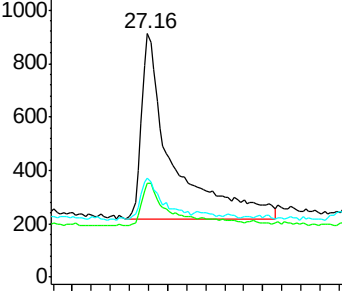
276 100

277 38.6 19.1 28.7#

138 40.6 18.7 28.1#



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-->

