

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091432.D
 Acq On : 3 Mar 2016 20:58
 Operator : UM/IZ
 Sample : MDL-01-S
 Misc : 0.08PPM
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-S

Quant Time: Mar 04 07:50:51 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 06:35:39 2016
 Response via : Initial Calibration

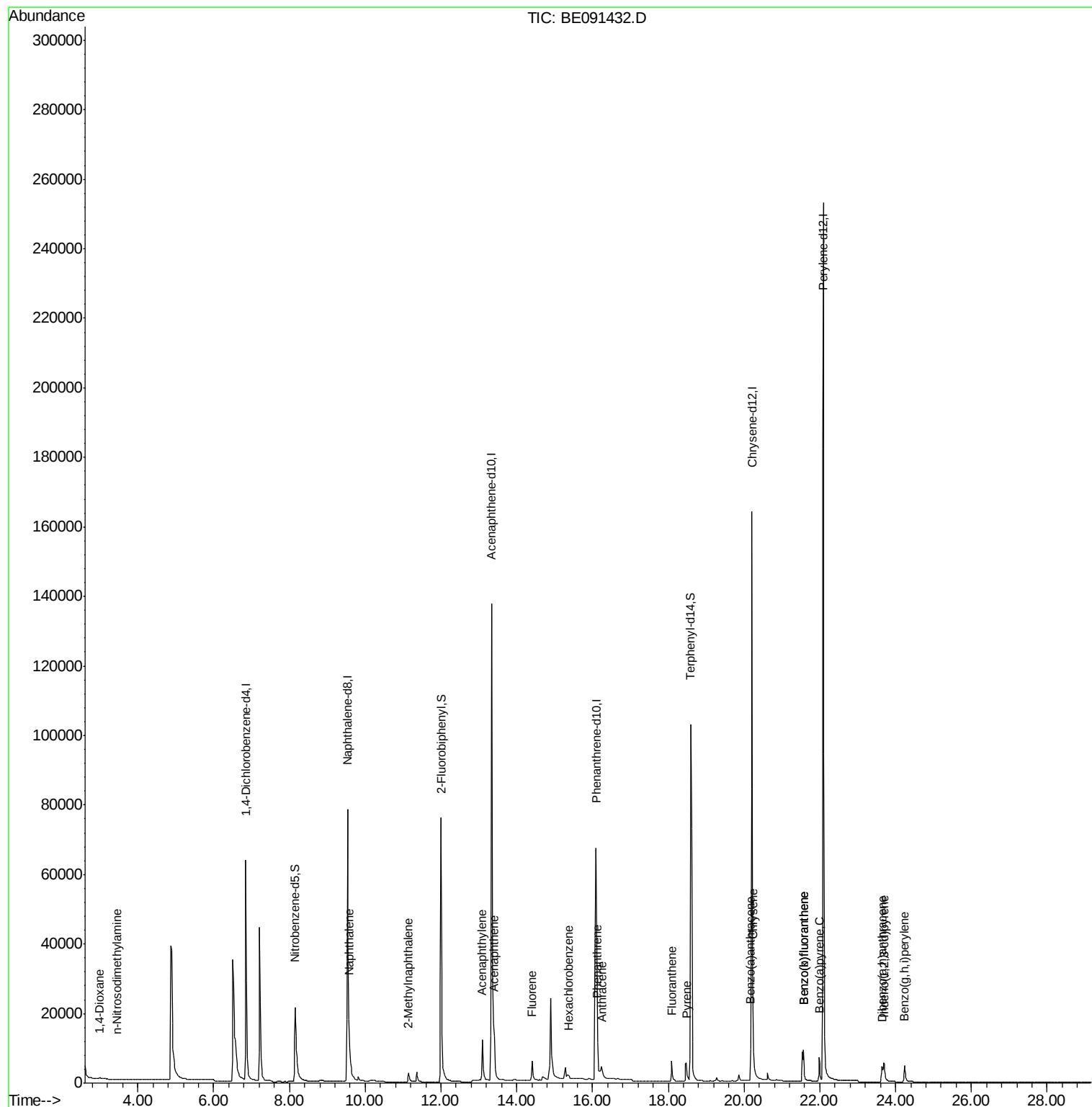
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	35558	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	156442	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	98353	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	158429	5.00	ng	0.00
19) Chrysene-d12	20.21	240	264836	5.00	ng	0.00
25) Perylene-d12	22.09	264	296397	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	38757	4.00	ng	-0.03
9) 2-Fluorobiphenyl	12.00	172	110312	4.62	ng	0.00
21) Terphenyl-d14	18.59	244	186606	4.63	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	445	0.14	ng	94
3) n-Nitrosodimethylamine	3.45	42	40	0.06	ng	# 1
6) Naphthalene	9.57	128	5386	0.15	ng	96
7) 2-Methylnaphthalene	11.15	142	3315	0.16	ng	92
10) Acenaphthylene	13.09	152	20539	0.12	ng	100
11) Acenaphthene	13.41	154	4250	0.14	ng	# 100
12) Fluorene	14.41	166	5066	0.13	ng	98
14) Hexachlorobenzene	15.38	284	1605	0.17	ng	# 100
15) Pentachlorophenol	15.93	266	134	Below Cal		98
16) Phenanthrene	16.13	178	8703	0.16	ng	100
17) Anthracene	16.24	178	4563	0.23	ng	# 83
18) Fluoranthene	18.09	202	9183	0.21	ng	99
20) Pyrene	18.48	202	9645	0.13	ng	99
22) Benzo(a)anthracene	20.17	228	11444	0.13	ng	99
23) Chrysene	20.24	228	14365	0.15	ng	100
24) Indeno(1,2,3-cd)pyrene	23.69	276	10946	0.14	ng	# 89
26) Benzo(b)fluoranthene	21.57	252	21585	0.26	ng	96
27) Benzo(k)fluoranthene	21.57	252	21798	0.27	ng	98
28) Benzo(a)pyrene	21.99	252	9003	0.13	ng	97
29) Dibenzo(a,h)anthracene	23.64	278	8469	0.12	ng	# 94
30) Benzo(g,h,i)perylene	24.24	276	9853	0.13	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

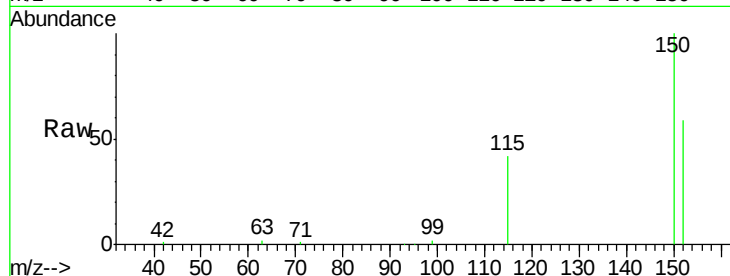
Tgt Ion: 152 Resp: 35558

Ion Ratio Lower Upper

152 100

150 168.3 115.0 172.4

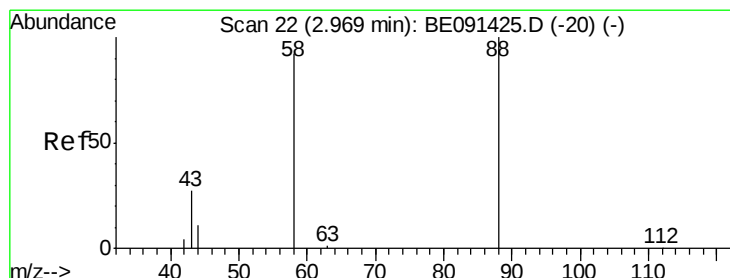
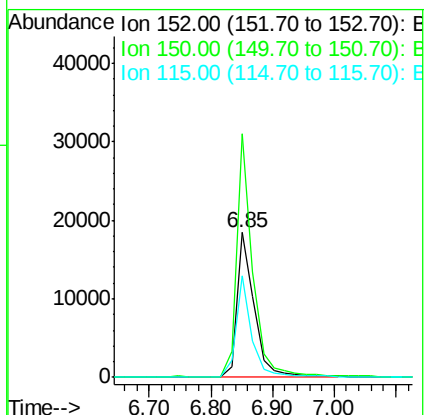
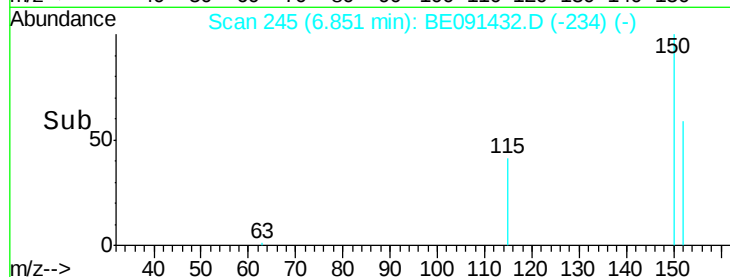
115 69.9 42.2 63.4#



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: 0.14 ng

RT: 2.99 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

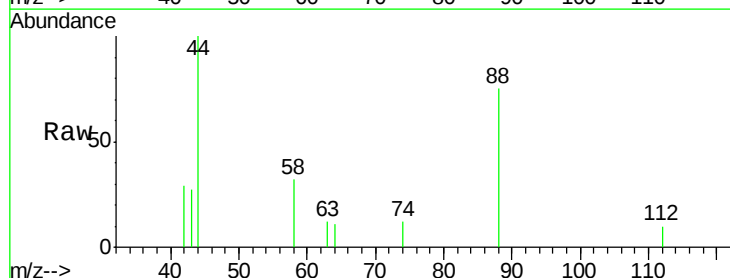
Tgt Ion: 88 Resp: 445

Ion Ratio Lower Upper

88 100

58 114.2 97.9 146.9

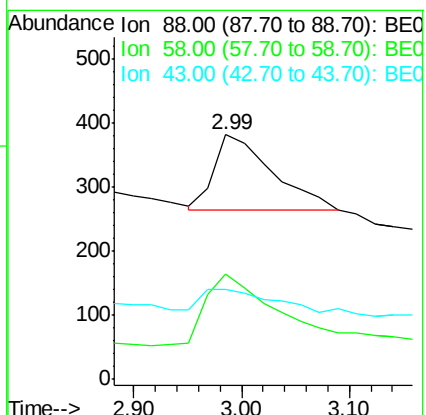
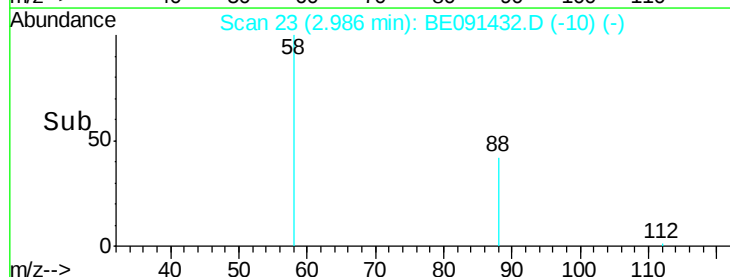
43 35.5 29.0 43.4

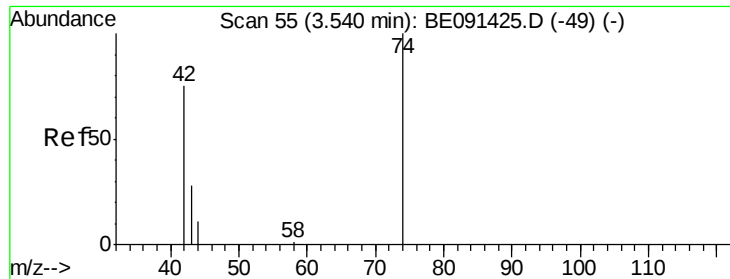


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.06 ng

RT: 3.45 min Scan# 50

Delta R.T. -0.09 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

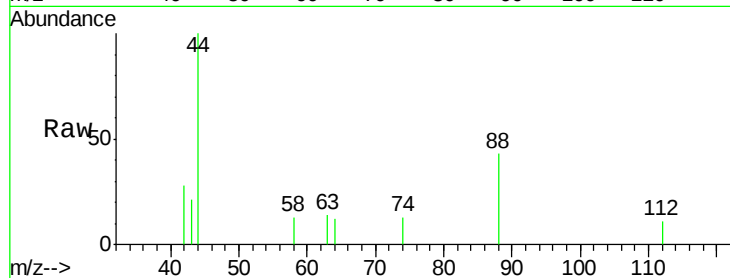
Tgt Ion: 42 Resp: 40

Ion Ratio Lower Upper

42 100

74 0.0 93.8 140.6#

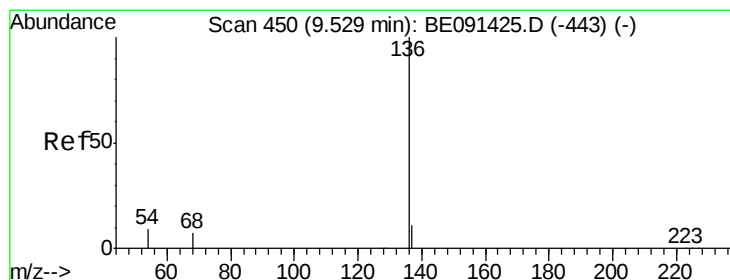
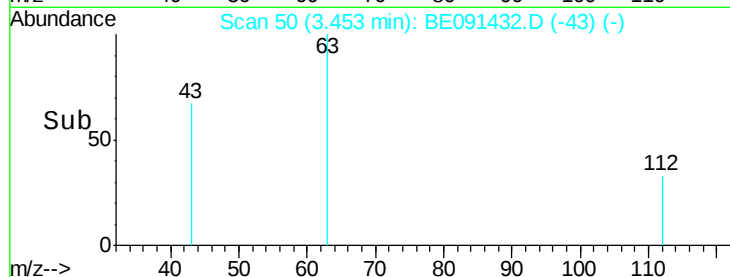
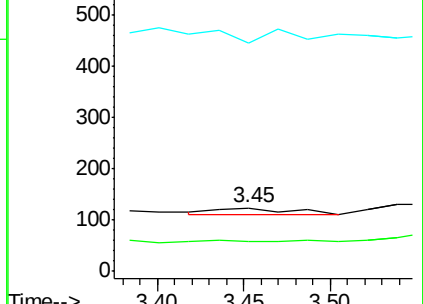
44 202.5 0.0 0.0#



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: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

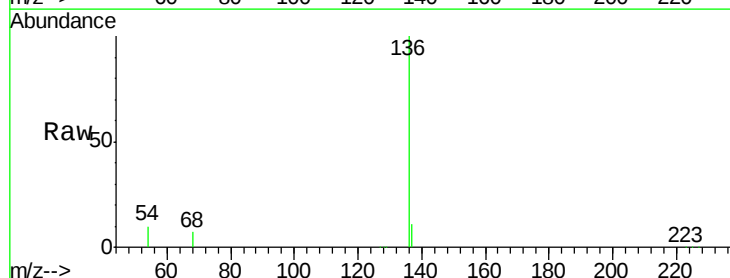
Tgt Ion: 136 Resp: 156442

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

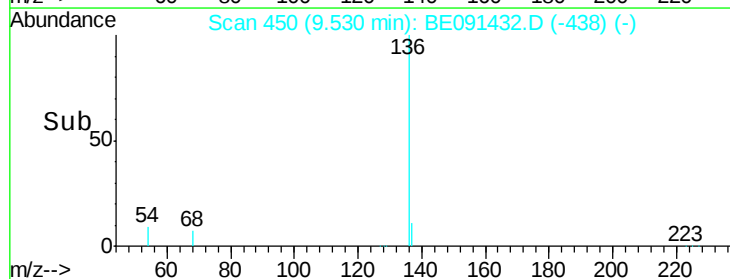
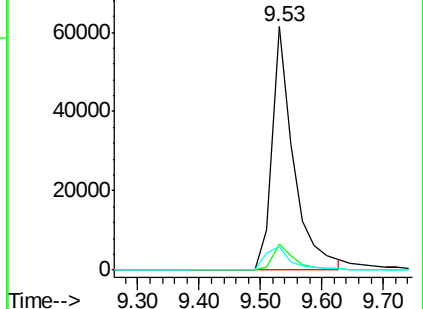
54 9.6 6.9 10.3

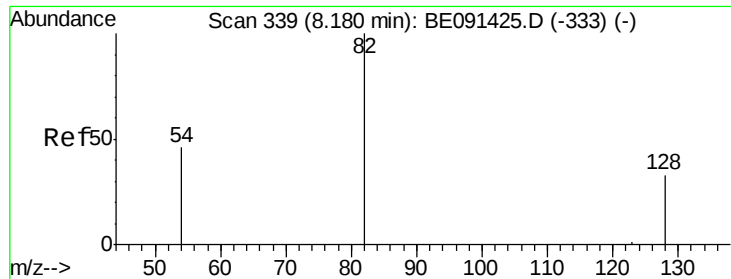


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.00 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

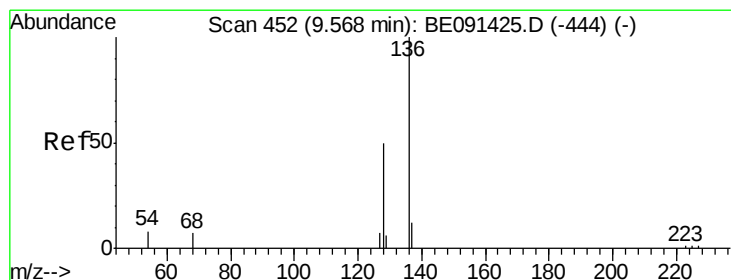
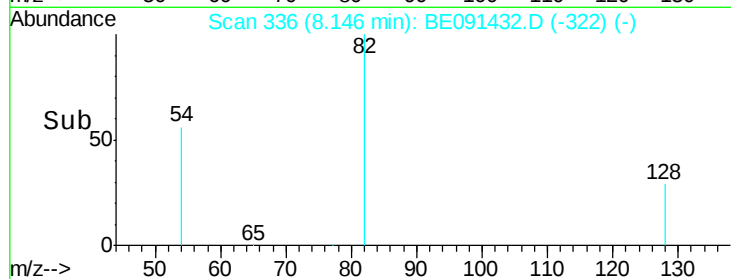
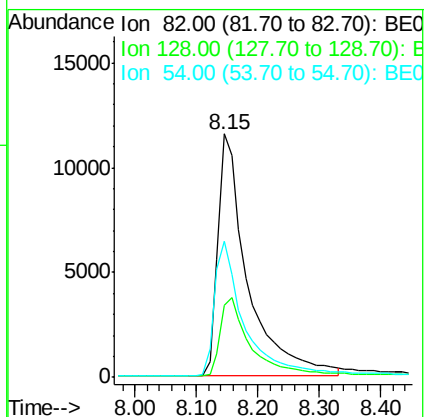
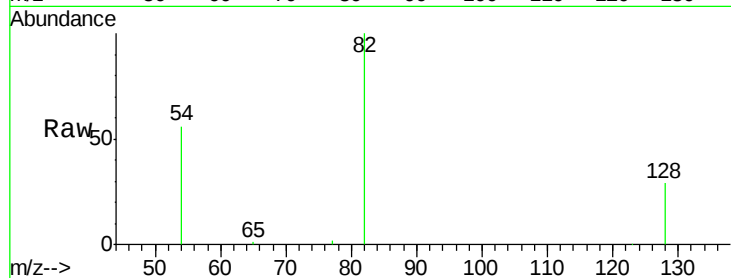
Tgt Ion: 82 Resp: 38757

Ion Ratio Lower Upper

82 100

128 29.4 30.0 45.0#

54 55.9 41.5 62.3



#6

Naphthalene

Concen: 0.15 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

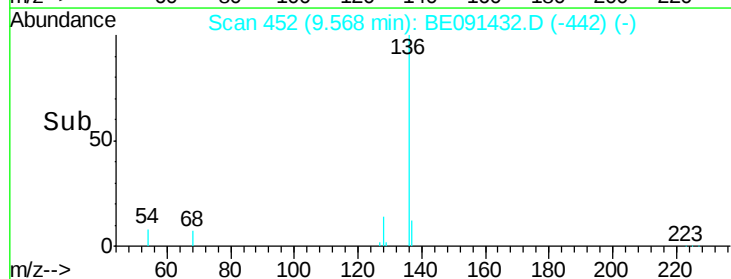
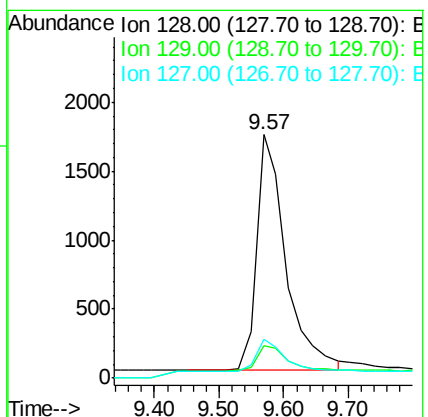
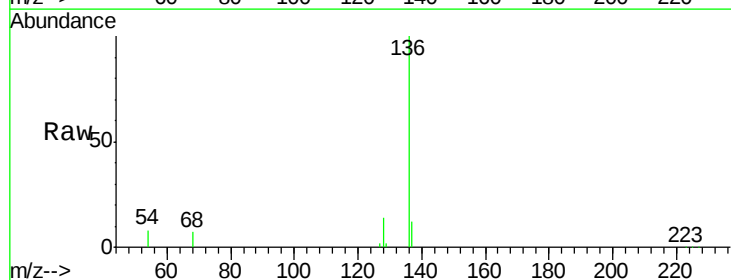
Tgt Ion: 128 Resp: 5386

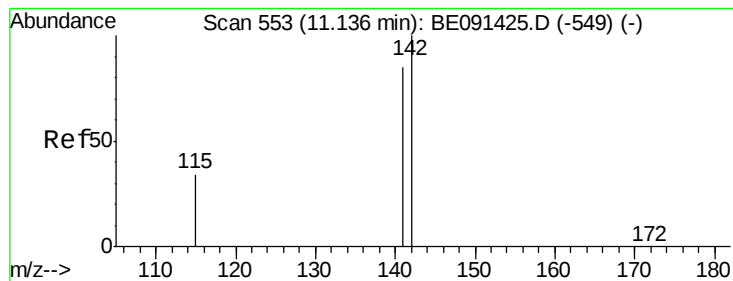
Ion Ratio Lower Upper

128 100

129 13.2 9.5 14.3

127 16.0 11.4 17.0





#7

2-Methylnaphthalene

Concen: 0.16 ng

RT: 11.15 min Scan# 554

Delta R.T. 0.01 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

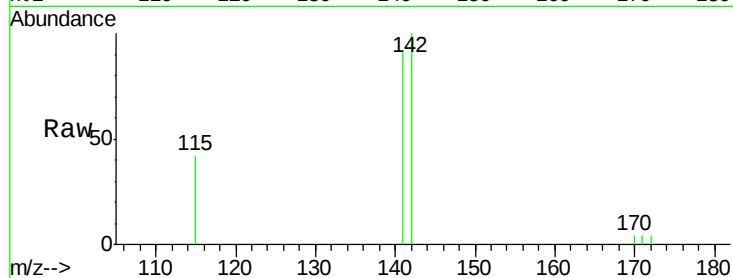
Tgt Ion:142 Resp: 3315

Ion Ratio Lower Upper

142 100

141 91.5 68.3 102.5

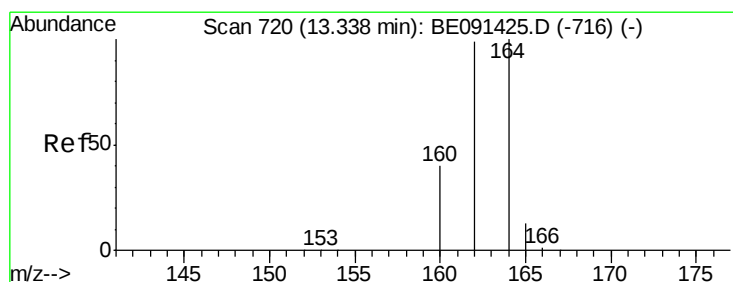
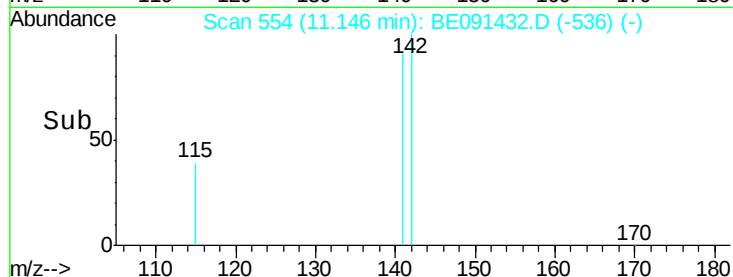
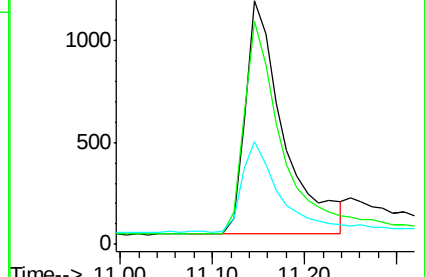
115 42.3 28.9 43.3



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: 13.34 min Scan# 720

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

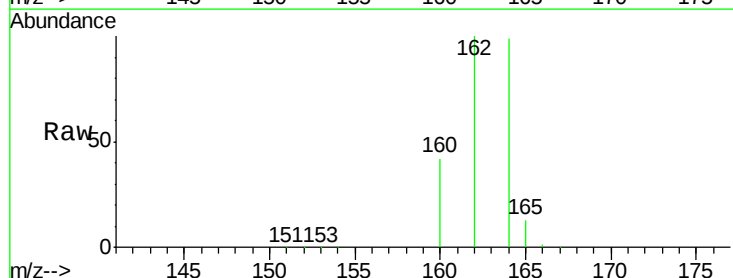
Tgt Ion:164 Resp: 98353

Ion Ratio Lower Upper

164 100

162 100.7 79.1 118.7

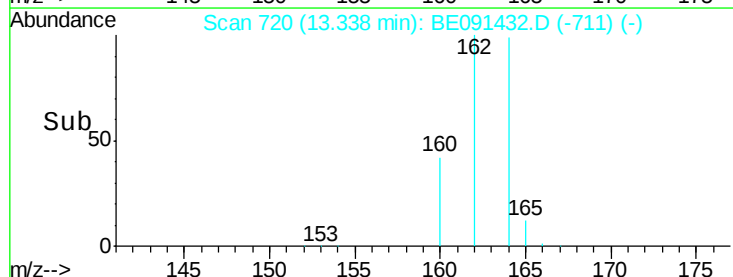
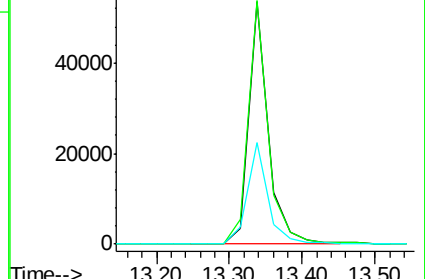
160 41.9 32.4 48.6

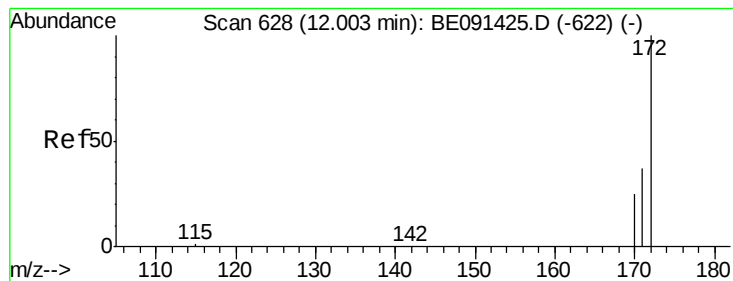


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.62 ng

RT: 12.00 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

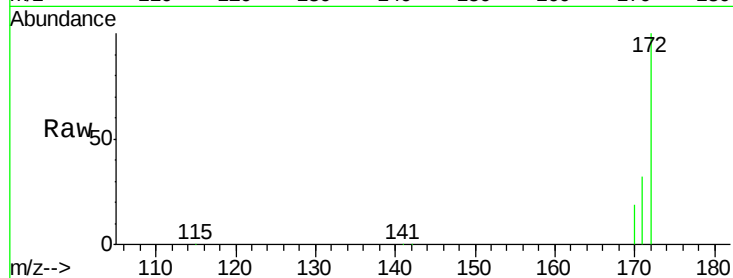
Tgt Ion:172 Resp: 110312

Ion Ratio Lower Upper

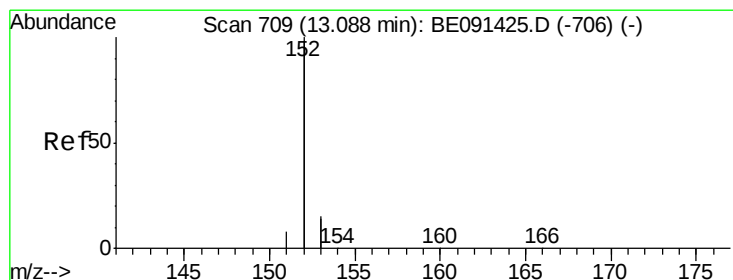
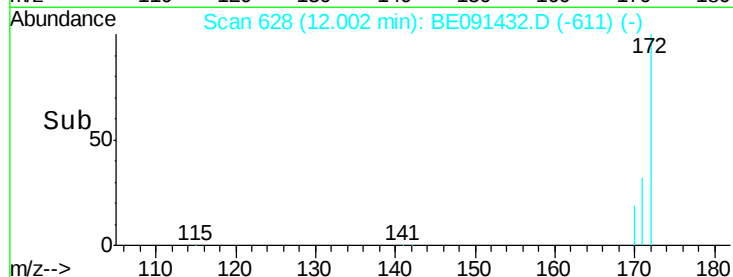
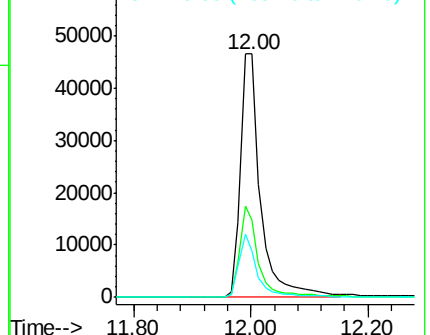
172 100

171 31.6 30.2 45.4

170 19.2 20.9 31.3#



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.12 ng

RT: 13.09 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

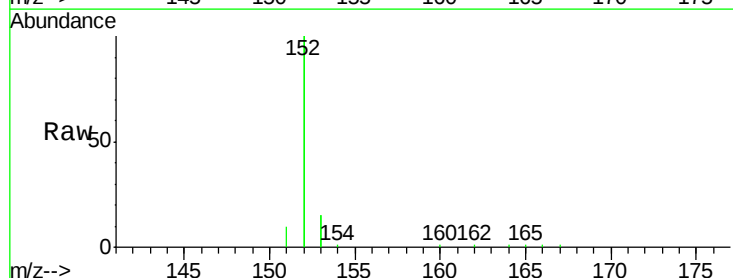
Tgt Ion:152 Resp: 20539

Ion Ratio Lower Upper

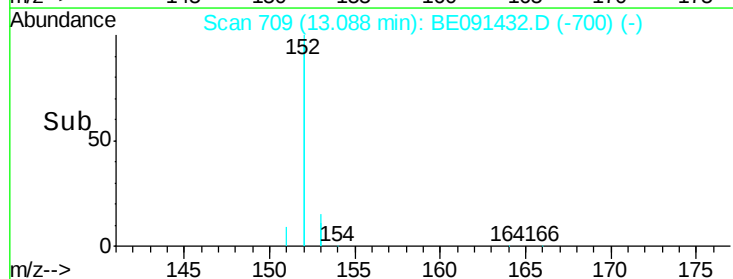
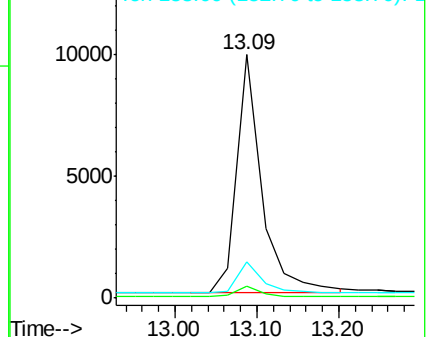
152 100

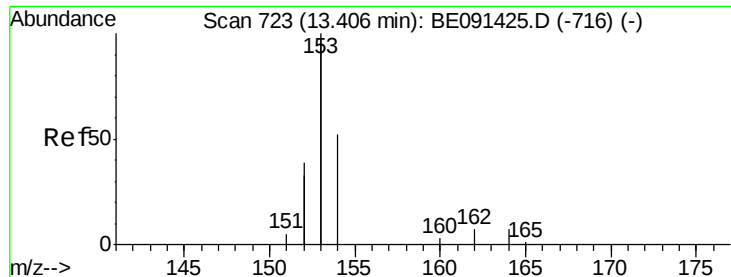
151 4.7 3.9 5.9

153 13.3 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

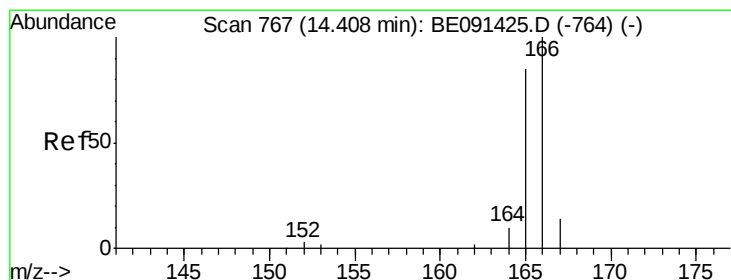
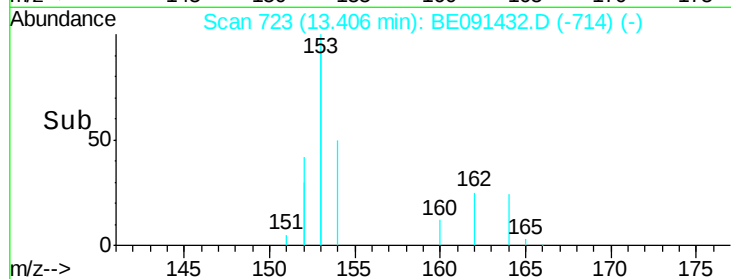
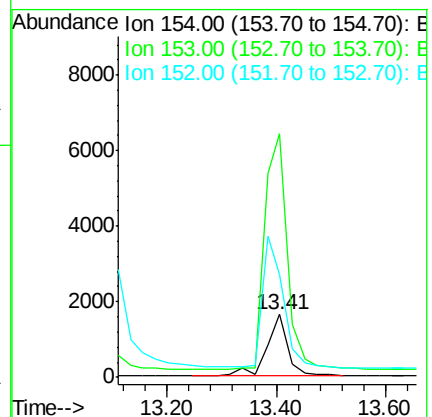
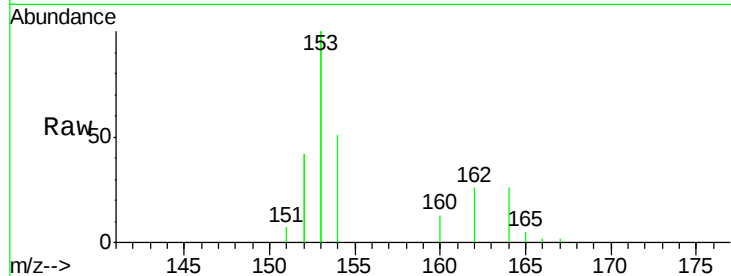




#11
Acenaphthene
Concen: 0.14 ng
RT: 13.41 min Scan# 723
Delta R.T. -0.00 min
Lab File: BE091432.D
Acq: 3 Mar 2016 20:58

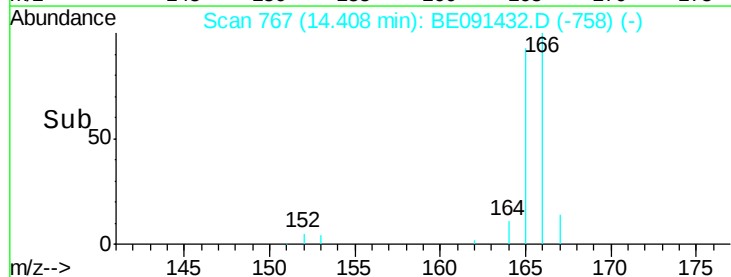
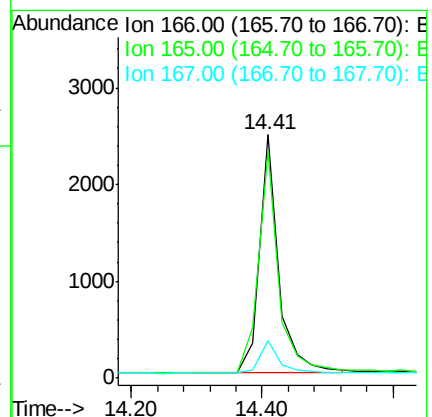
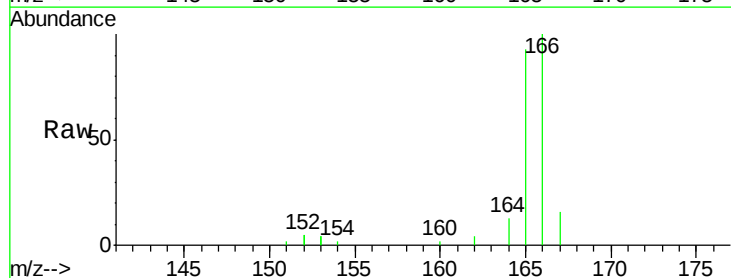
Instrument :
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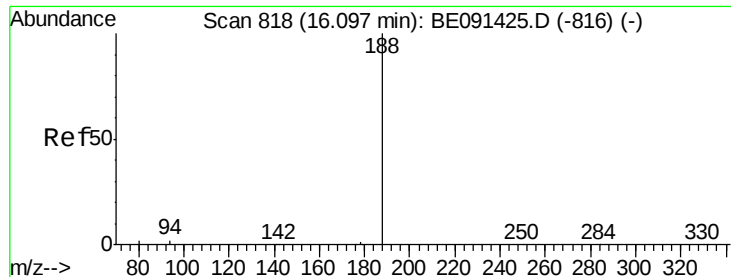
Tgt Ion:154 Resp: 4250
Ion Ratio Lower Upper
154 100
153 424.1 0.0 0.0#
152 0.0 0.0 0.0



#12
Fluorene
Concen: 0.13 ng
RT: 14.41 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE091432.D
Acq: 3 Mar 2016 20:58

Tgt Ion:166 Resp: 5066
Ion Ratio Lower Upper
166 100
165 97.3 79.4 119.2
167 13.8 10.7 16.1





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

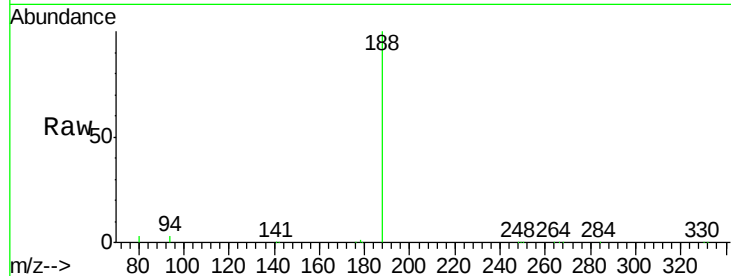
Tgt Ion:188 Resp: 158429

Ion Ratio Lower Upper

188 100

94 3.2 2.1 3.1#

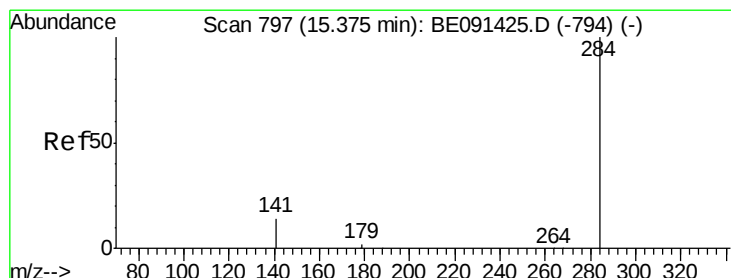
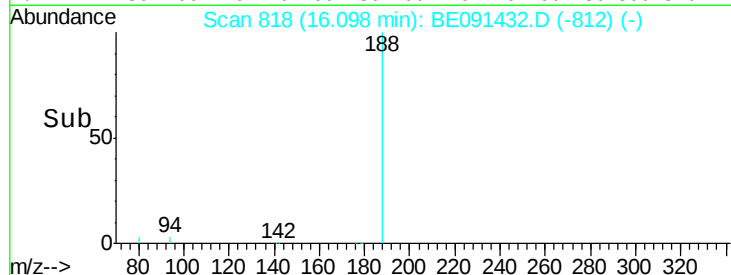
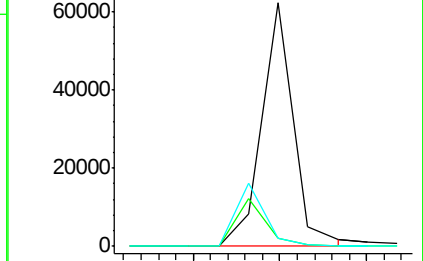
80 3.1 1.9 2.9#



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: 0.17 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

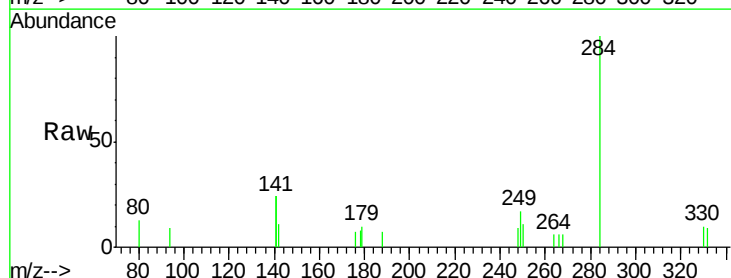
Tgt Ion:284 Resp: 1605

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

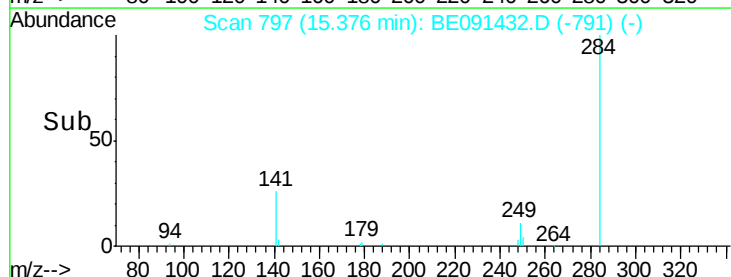
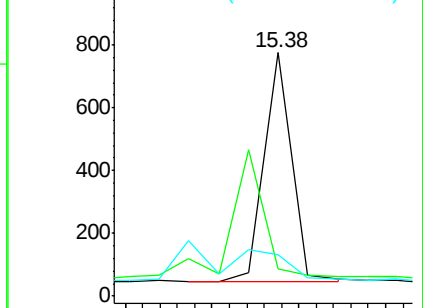
249 0.0 0.0 0.0

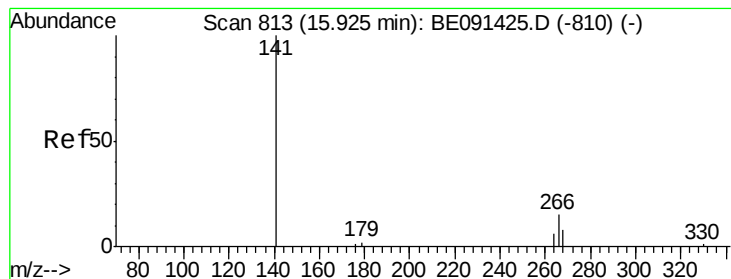


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: Below Cal

RT: 15.93 min Scan# 813

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

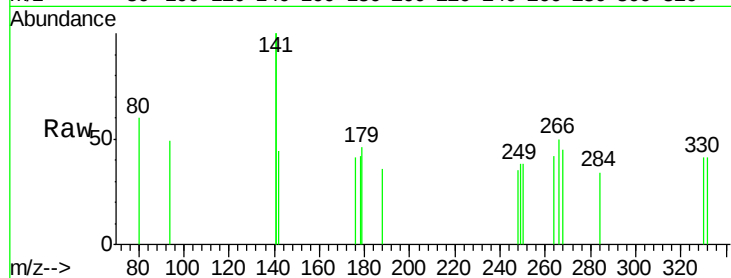
Tgt Ion:266 Resp: 134

Ion Ratio Lower Upper

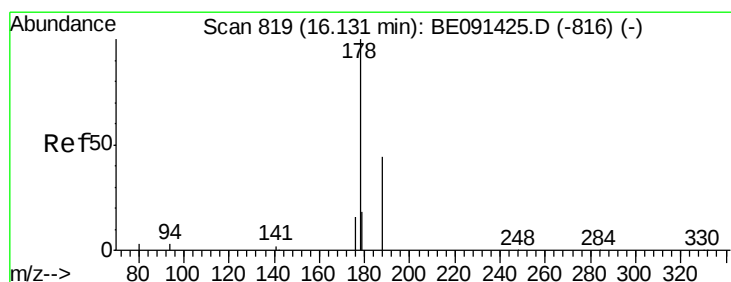
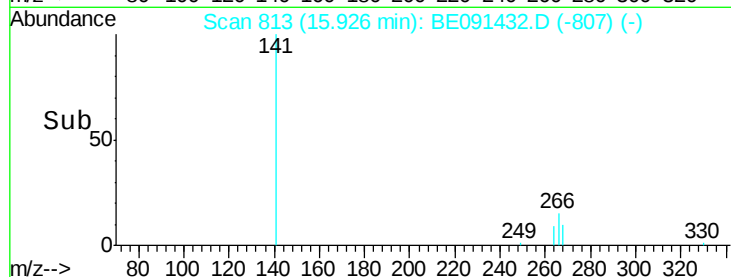
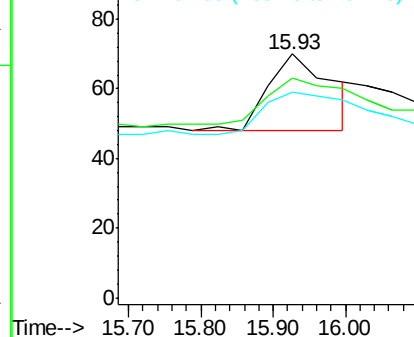
266 100

268 90.0 73.0 109.6

264 84.3 66.1 99.1



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: 0.16 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

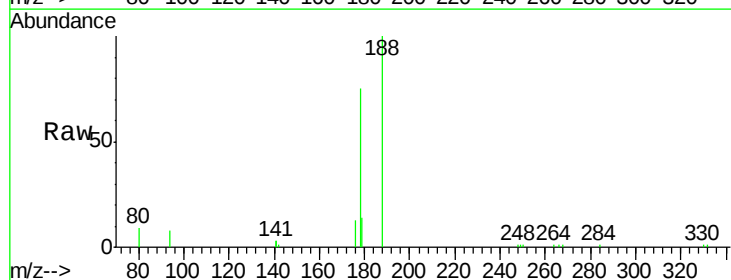
Tgt Ion:178 Resp: 8703

Ion Ratio Lower Upper

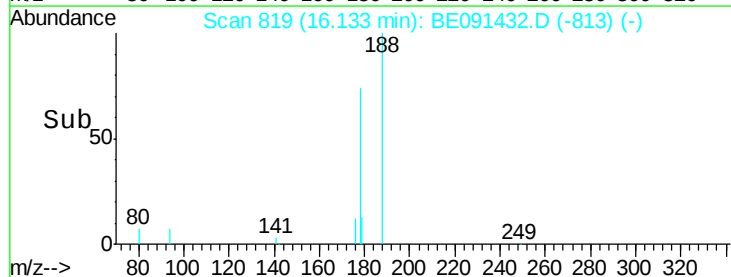
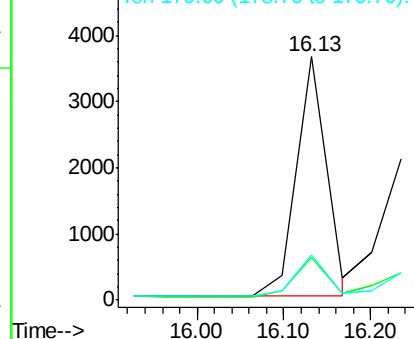
178 100

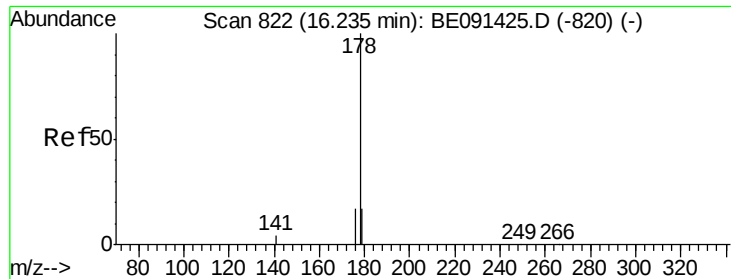
176 17.5 13.8 20.8

179 18.0 14.2 21.4



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

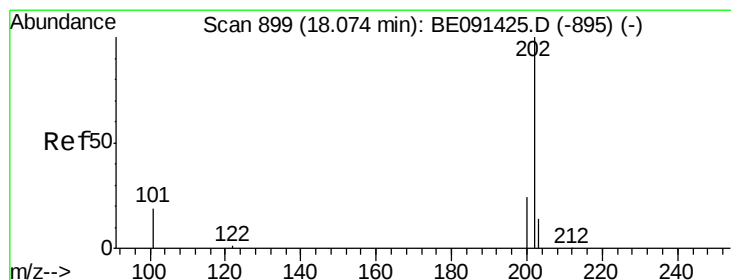
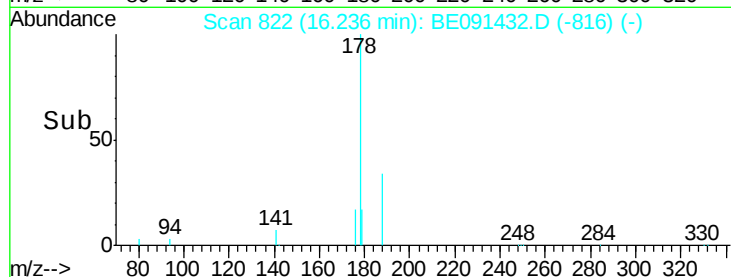
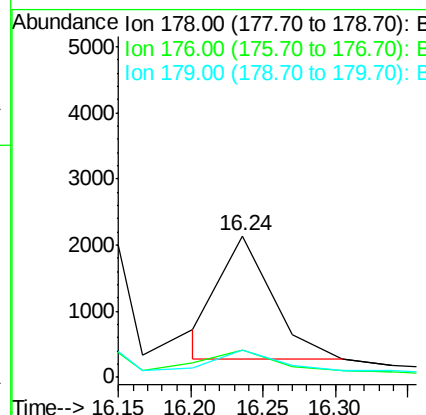
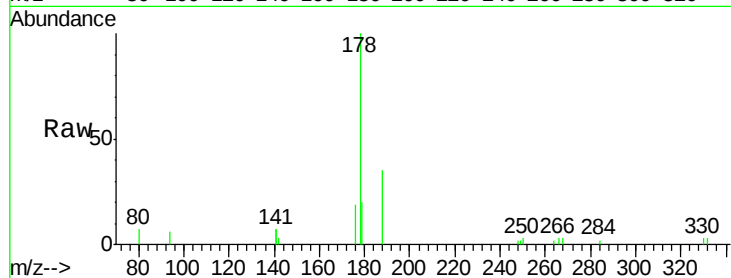




#17
 Anthracene
 Concen: 0.23 ng
 RT: 16.24 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BE091432.D
 Acq: 3 Mar 2016 20:58

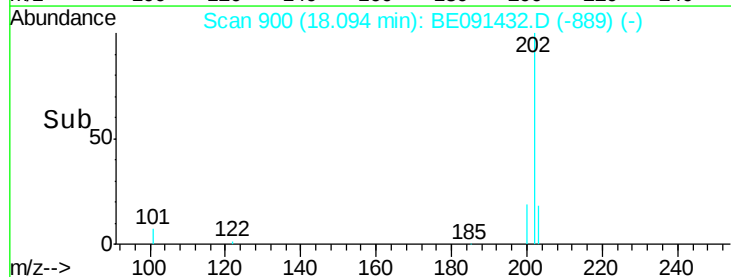
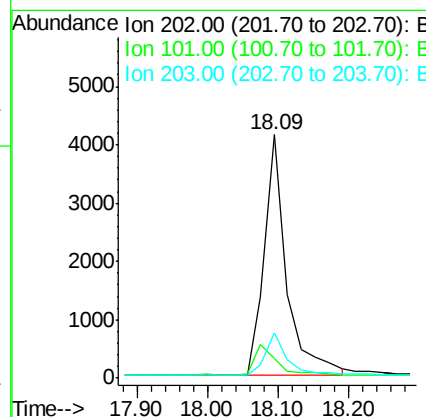
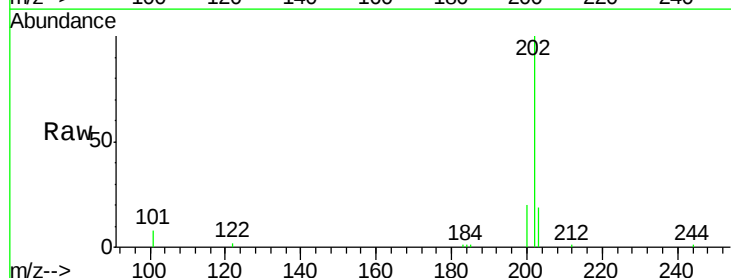
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-S

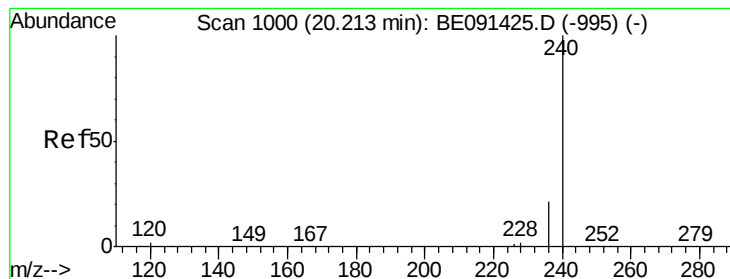
Tgt Ion:178 Resp: 4563
 Ion Ratio Lower Upper
 178 100
 176 16.9 24.4 36.6#
 179 16.8 14.8 22.2



#18
 Fluoranthene
 Concen: 0.21 ng
 RT: 18.09 min Scan# 900
 Delta R.T. 0.02 min
 Lab File: BE091432.D
 Acq: 3 Mar 2016 20:58

Tgt Ion:202 Resp: 9183
 Ion Ratio Lower Upper
 202 100
 101 13.7 11.0 16.6
 203 17.6 13.7 20.5





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

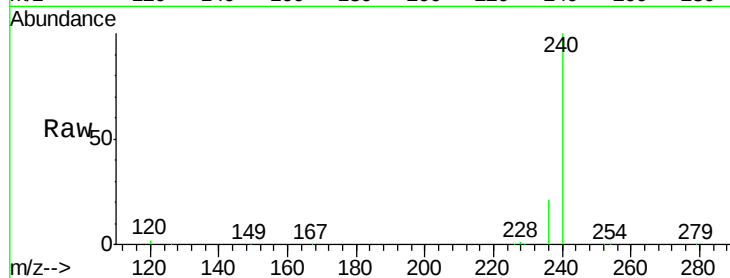
Tgt Ion:240 Resp: 264836

Ion Ratio Lower Upper

240 100

120 1.9 1.4 2.0

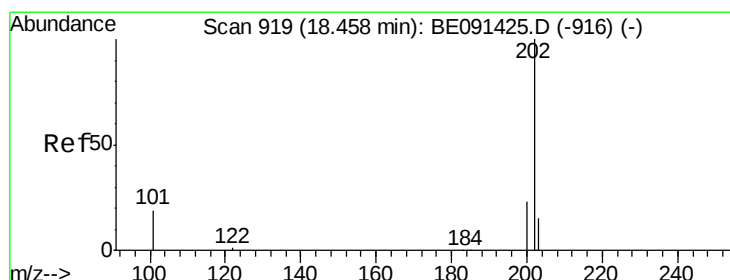
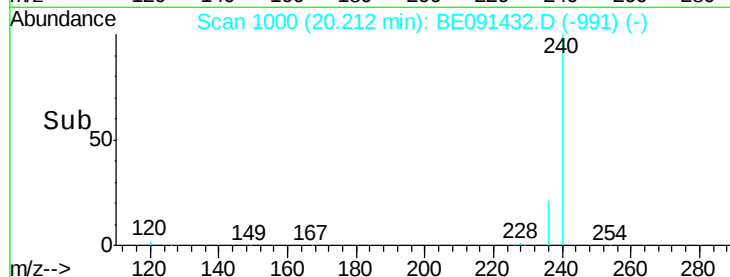
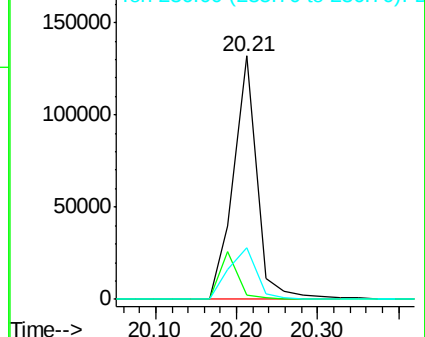
236 21.1 16.7 25.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.13 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

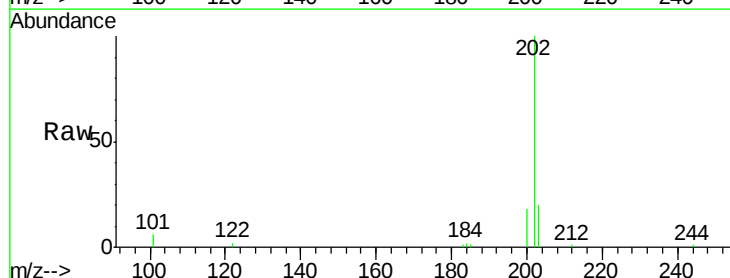
Tgt Ion:202 Resp: 9645

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

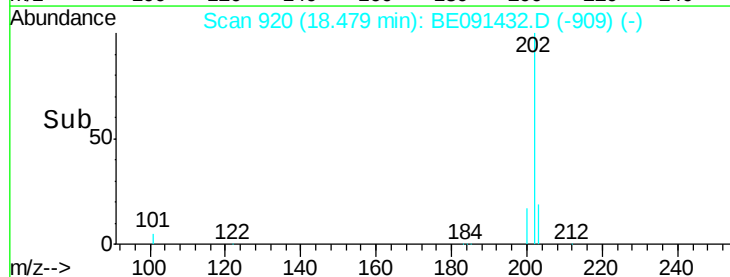
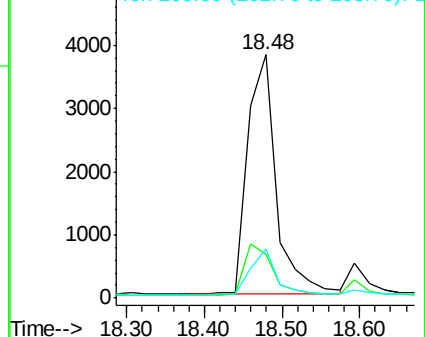
203 17.9 13.8 20.6

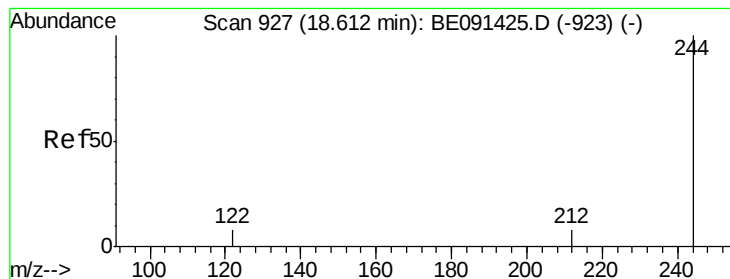


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 4.63 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

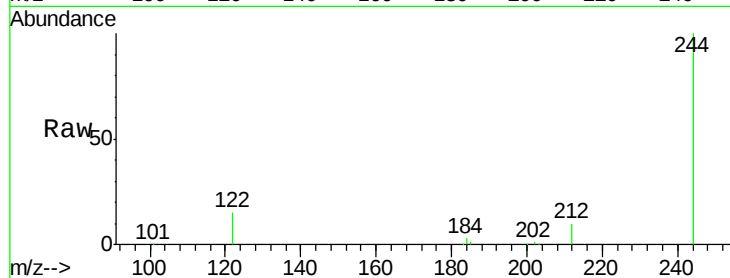
Tgt Ion:244 Resp: 186606

Ion Ratio Lower Upper

244 100

212 9.6 7.0 10.6

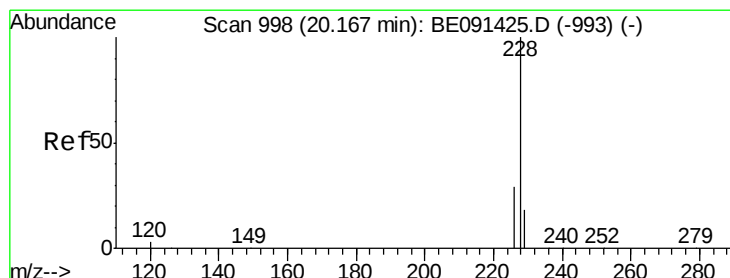
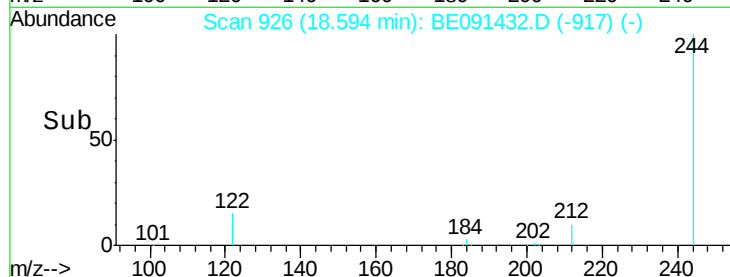
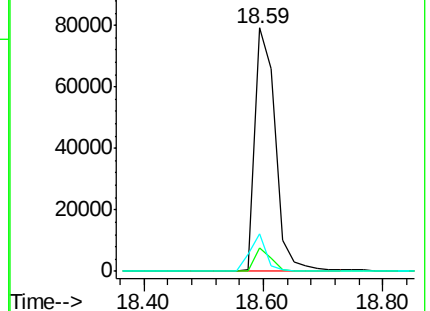
122 15.5 6.8 10.2#



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: 0.13 ng

RT: 20.17 min Scan# 998

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

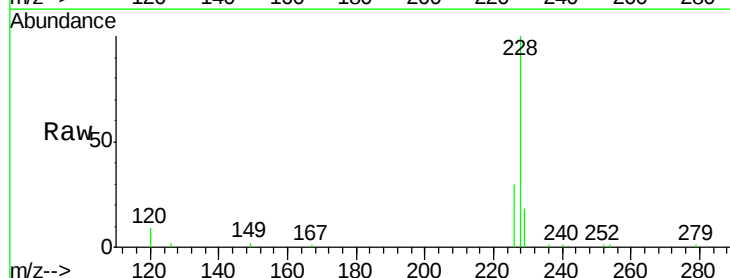
Tgt Ion:228 Resp: 11444

Ion Ratio Lower Upper

228 100

226 30.0 23.1 34.7

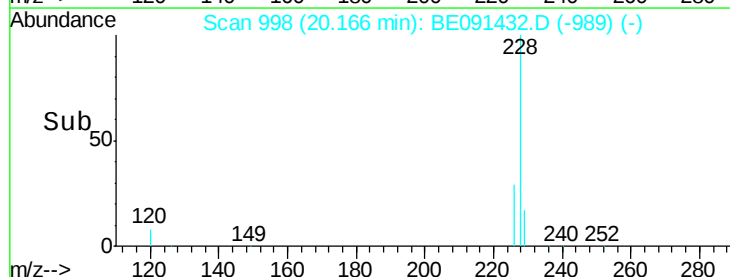
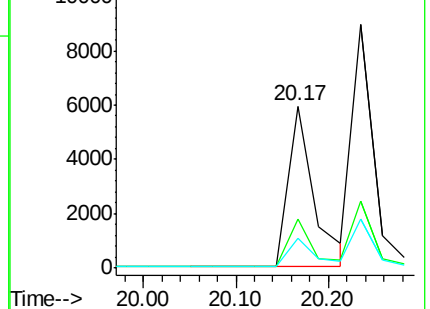
229 18.1 14.5 21.7

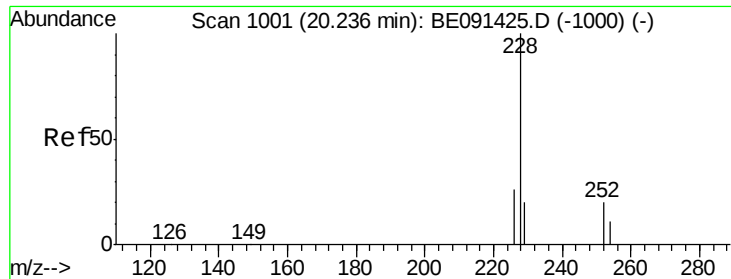


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

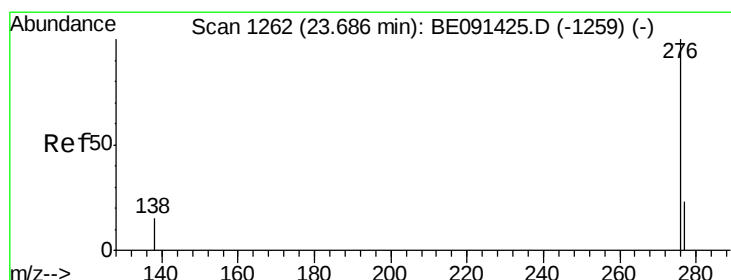
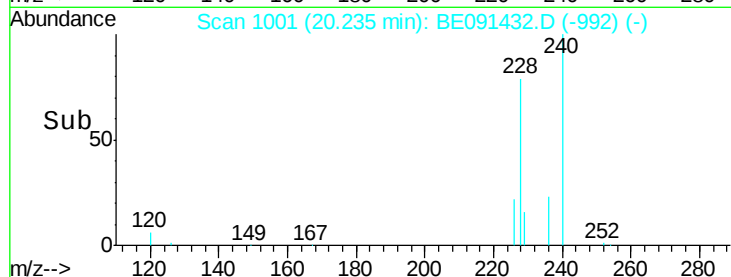
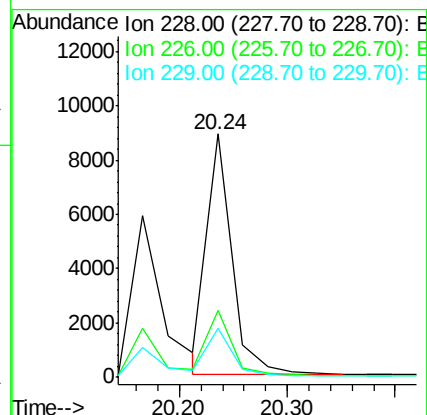
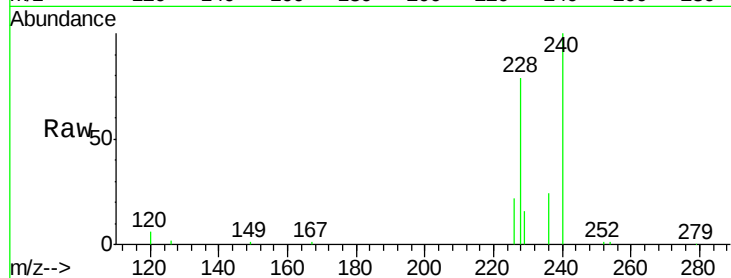




#23
Chrysene
Concen: 0.15 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091432.D
Acq: 3 Mar 2016 20:58

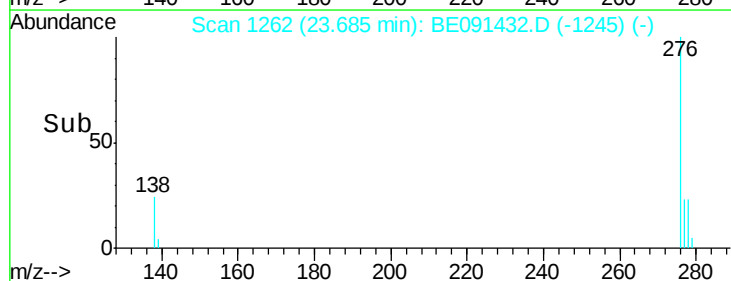
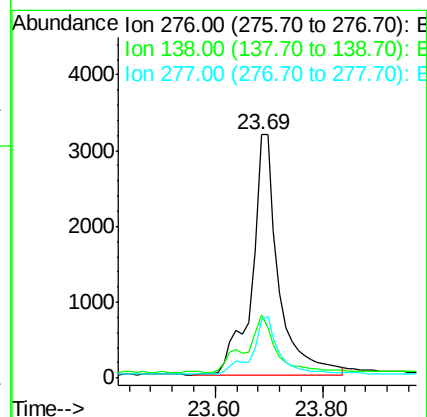
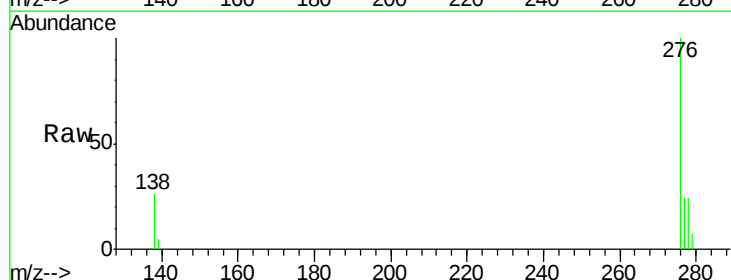
Instrument :
BNA_E
ClientSampleId :
MDL-01-S

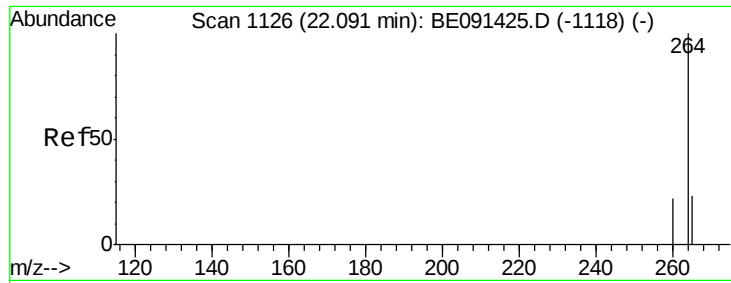
Tgt Ion:228 Resp: 14365
Ion Ratio Lower Upper
228 100
226 27.7 22.0 33.0
229 20.2 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.14 ng
RT: 23.69 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091432.D
Acq: 3 Mar 2016 20:58

Tgt Ion:276 Resp: 10946
Ion Ratio Lower Upper
276 100
138 26.7 16.1 24.1#
277 24.5 22.9 34.3

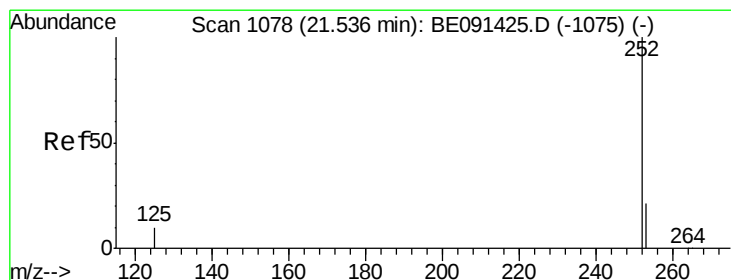
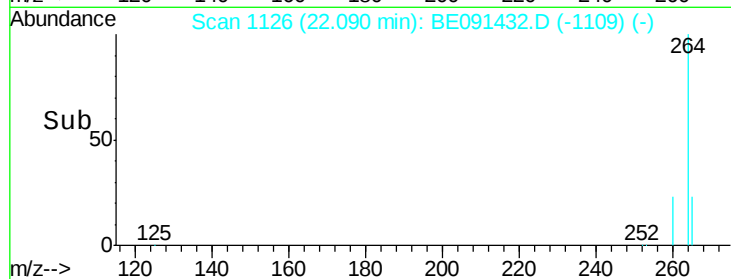
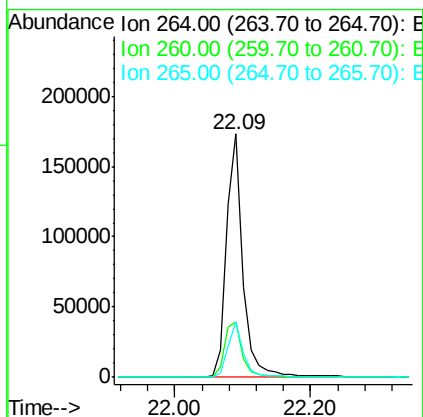
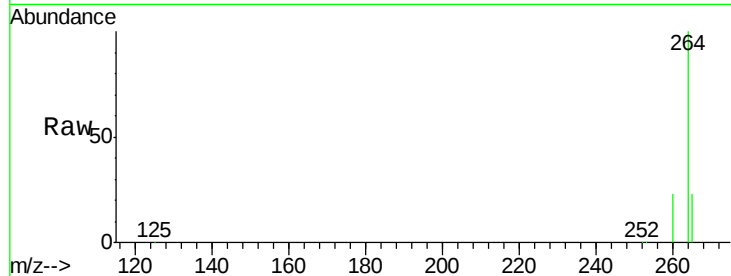




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091432.D
 Acq: 3 Mar 2016 20:58

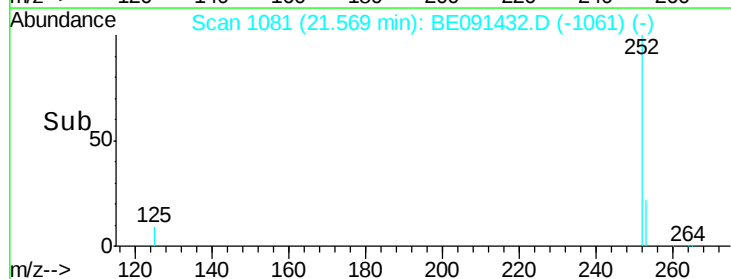
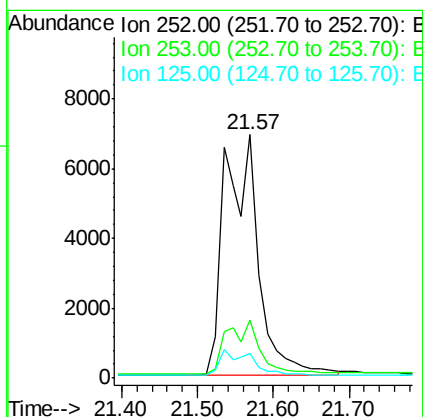
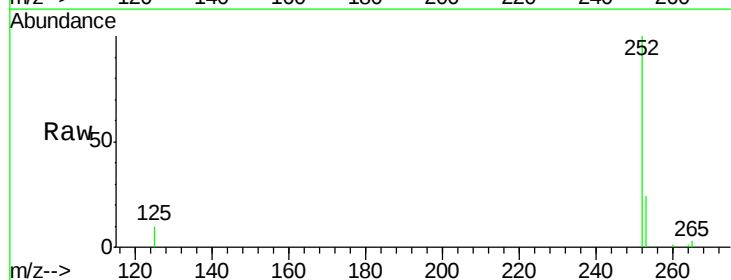
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-S

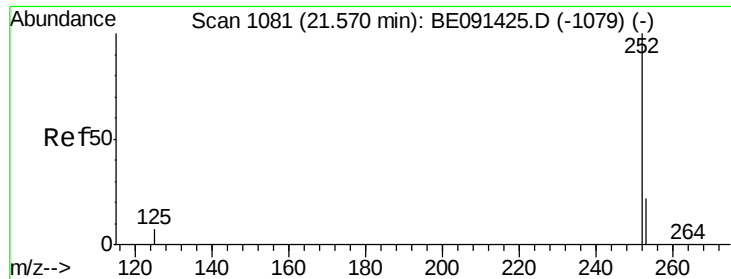
Tgt Ion: 264 Resp: 296397
 Ion Ratio Lower Upper
 264 100
 260 22.6 18.0 27.0
 265 22.9 18.2 27.4



#26
 Benzo(b)fluoranthene
 Concen: 0.26 ng
 RT: 21.57 min Scan# 1081
 Delta R.T. 0.03 min
 Lab File: BE091432.D
 Acq: 3 Mar 2016 20:58

Tgt Ion: 252 Resp: 21585
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.0 25.4
 125 10.4 8.3 12.5





#27

Benzo(k)fluoranthene

Concen: 0.27 ng

RT: 21.57 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

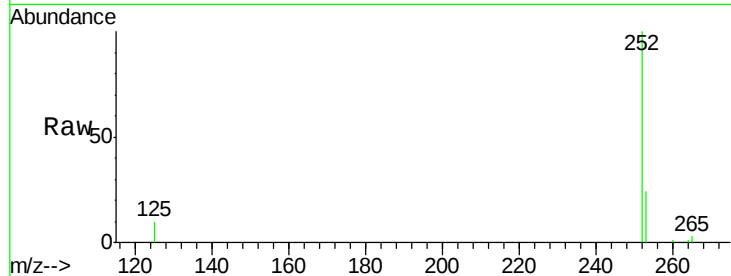
Tgt Ion:252 Resp: 21798

Ion Ratio Lower Upper

252 100

253 23.8 19.5 29.3

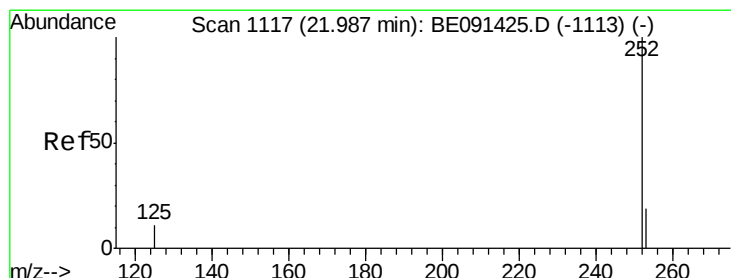
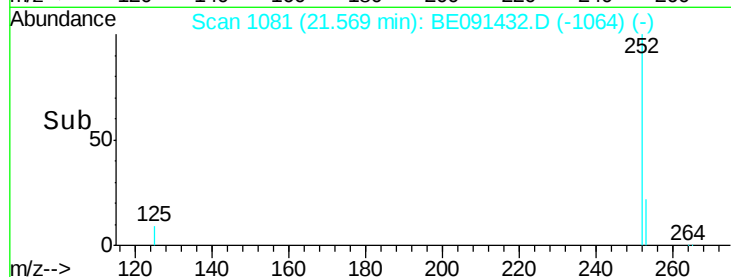
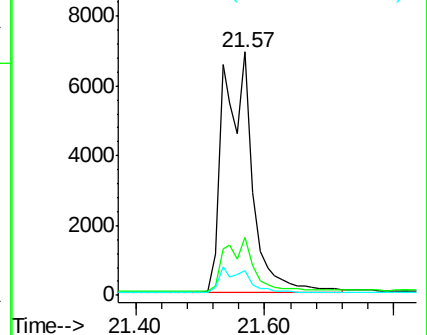
125 10.4 7.3 10.9



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



#28

Benzo(a)pyrene

Concen: 0.13 ng

RT: 21.99 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

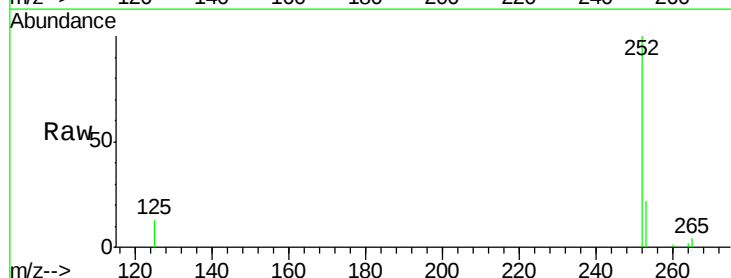
Tgt Ion:252 Resp: 9003

Ion Ratio Lower Upper

252 100

253 21.8 16.2 24.4

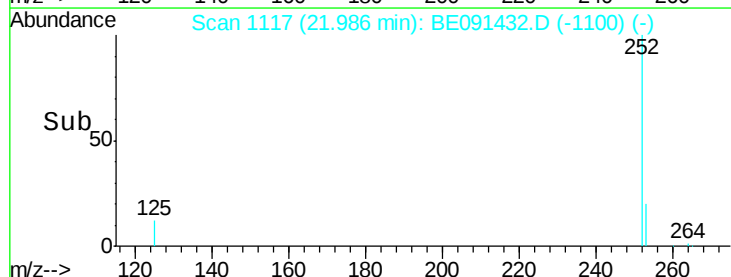
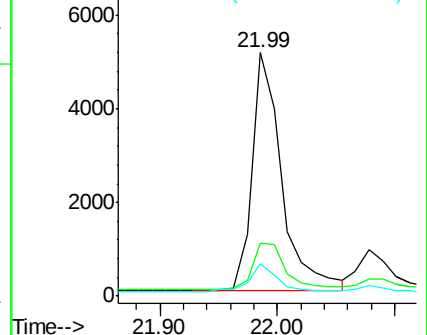
125 13.3 9.6 14.4

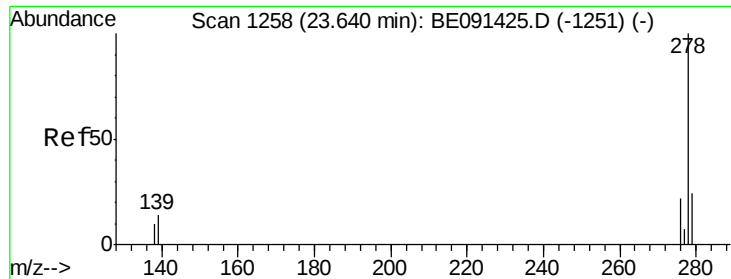


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

Instrument :

BNA_E

ClientSampleId :

MDL-01-S

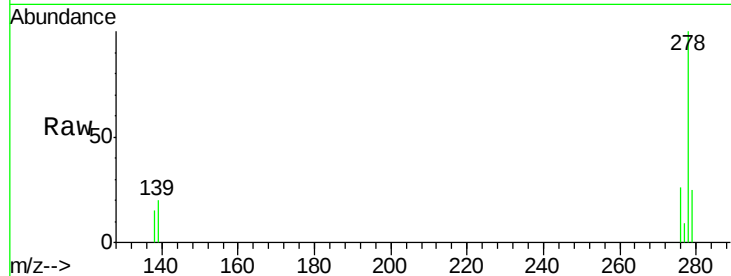
Tgt Ion: 278 Resp: 8469

Ion Ratio Lower Upper

278 100

139 20.2 12.1 18.1#

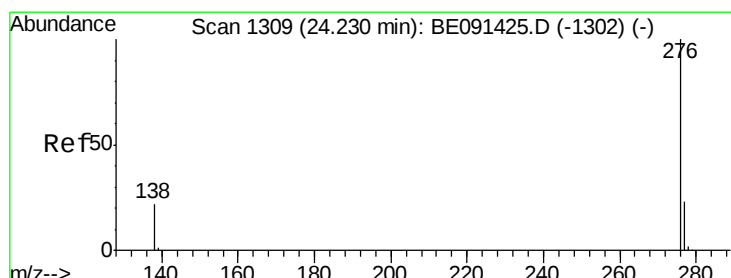
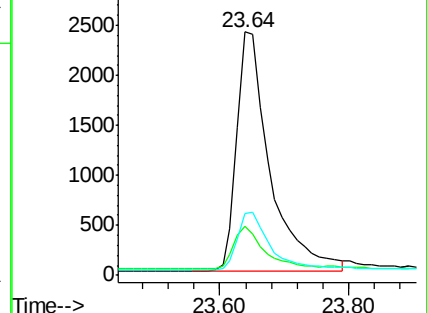
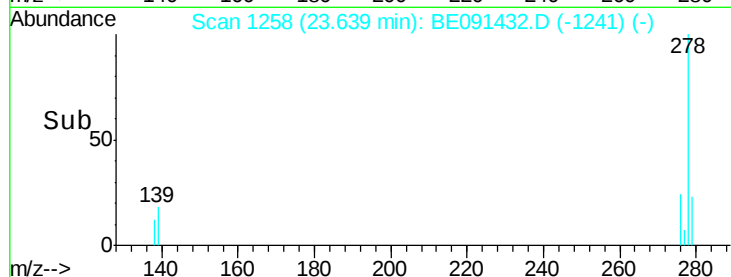
279 25.3 19.4 29.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 0.13 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091432.D

Acq: 3 Mar 2016 20:58

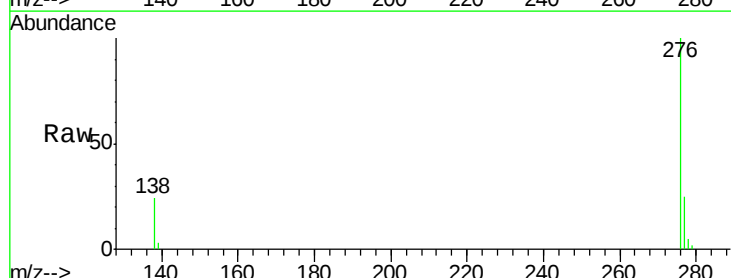
Tgt Ion: 276 Resp: 9853

Ion Ratio Lower Upper

276 100

277 24.9 19.0 28.6

138 24.4 18.2 27.4



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

