

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091437.D
 Acq On : 4 Mar 2016 00:00
 Operator : UM/IZ
 Sample : MDL-06-S
 Misc : 0.008 PPM
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

Quant Time: Mar 04 07:52:12 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	34195	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	147300	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	92260	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	152496	5.00	ng	0.00
19) Chrysene-d12	20.21	240	237976	5.00	ng	0.00
25) Perylene-d12	22.09	264	283626	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	8.15	82	37429	4.10	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	107564	4.80	ng	-0.01
21) Terphenyl-d14	18.59	244	181716	5.02	ng	-0.02

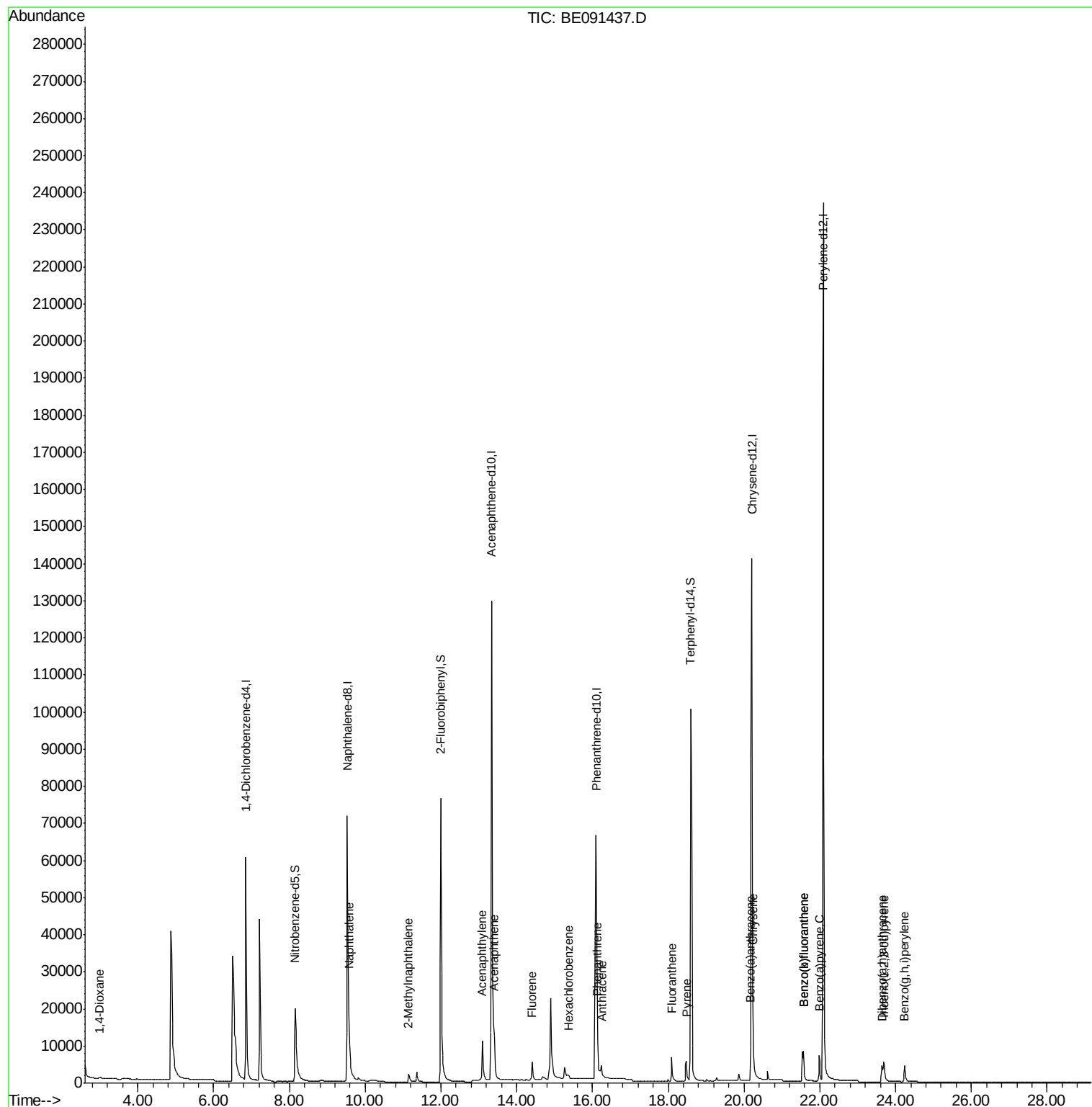
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.99	88	410	0.14	ng	91
6) Naphthalene	9.57	128	4836	0.14	ng	94
7) 2-Methylnaphthalene	11.15	142	2885	0.14	ng	93
10) Acenaphthylene	13.09	152	18935	0.12	ng	100
11) Acenaphthene	13.41	154	3988	0.14	ng	# 100
12) Fluorene	14.41	166	4487	0.13	ng	97
14) Hexachlorobenzene	15.38	284	1378	0.15	ng	# 100
15) Pentachlorophenol	15.96	266	103	Below Cal		97
16) Phenanthrene	16.13	178	8145	0.15	ng	100
17) Anthracene	16.24	178	4332	0.23	ng	# 83
18) Fluoranthene	18.09	202	8947	0.21	ng	97
20) Pyrene	18.48	202	9055	0.13	ng	99
22) Benzo(a)anthracene	20.17	228	11174	0.14	ng	99
23) Chrysene	20.24	228	12875	0.15	ng	98
24) Indeno(1,2,3-cd)pyrene	23.69	276	10262	0.14	ng	# 90
26) Benzo(b)fluoranthene	21.57	252	20216	0.26	ng	96
27) Benzo(k)fluoranthene	21.57	252	20408	0.27	ng	98
28) Benzo(a)pyrene	21.99	252	9002	0.13	ng	97
29) Dibenzo(a,h)anthracene	23.64	278	8083	0.12	ng	# 95
30) Benzo(g,h,i)perylene	24.24	276	9161	0.13	ng	98

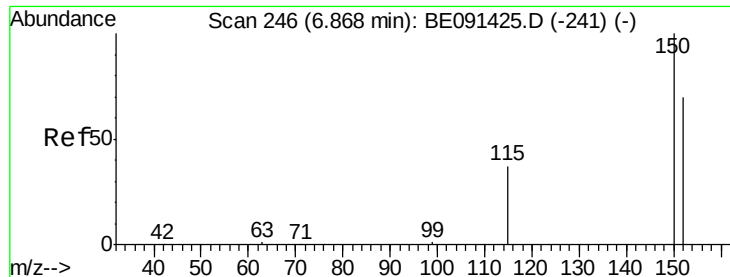
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

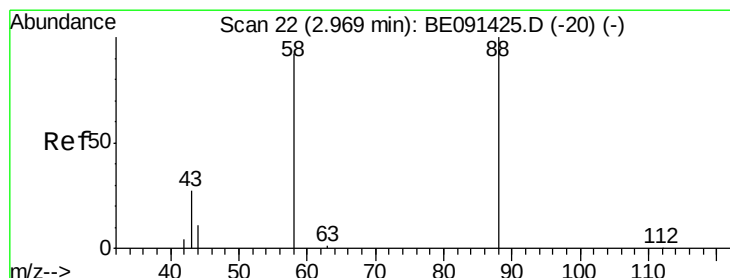
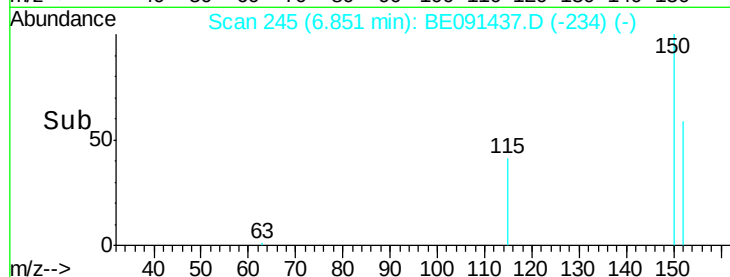
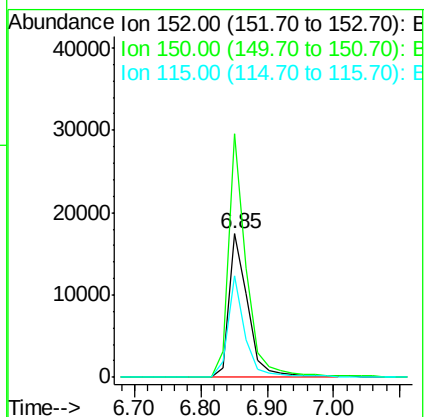
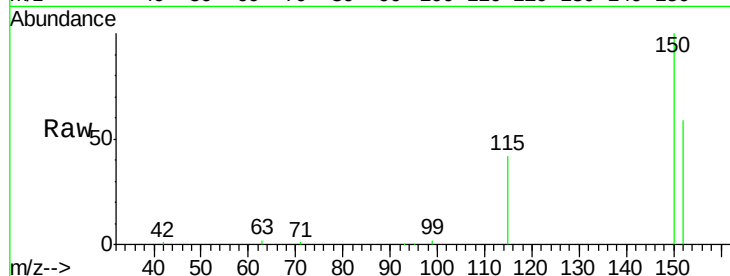
Tgt Ion:152 Resp: 34195

Ion Ratio Lower Upper

152 100

150 169.4 115.0 172.4

115 70.4 42.2 63.4#



#2

1,4-Dioxane

Concen: 0.14 ng

RT: 2.99 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

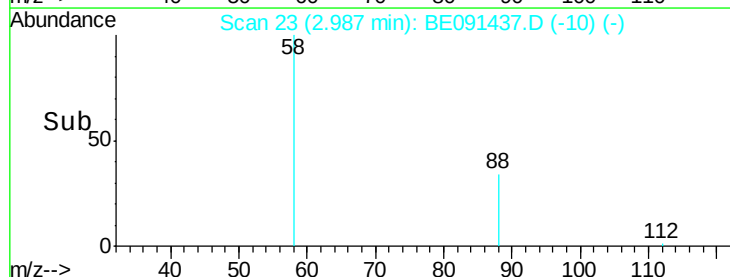
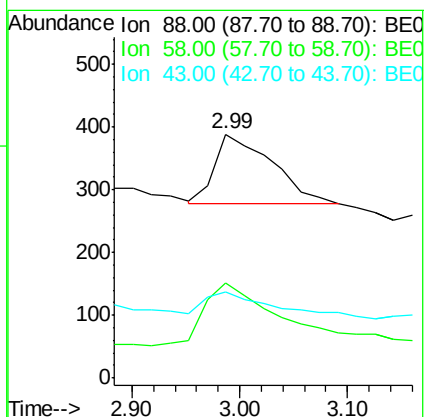
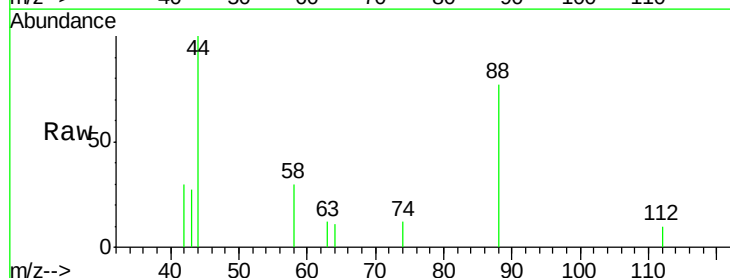
Tgt Ion: 88 Resp: 410

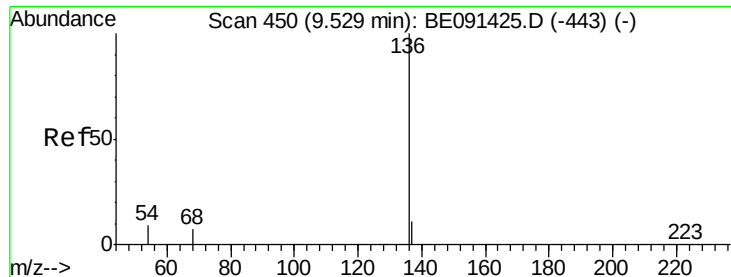
Ion Ratio Lower Upper

88 100

58 112.4 97.9 146.9

43 29.5 29.0 43.4





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

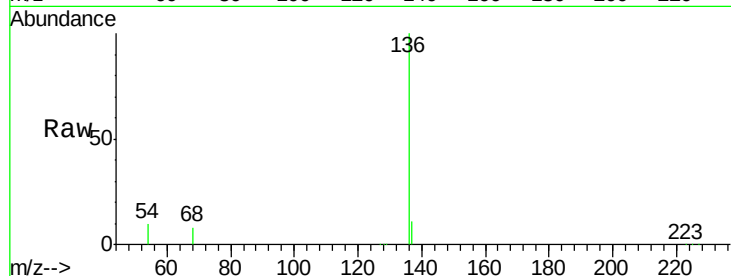
Tgt Ion:136 Resp: 147300

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

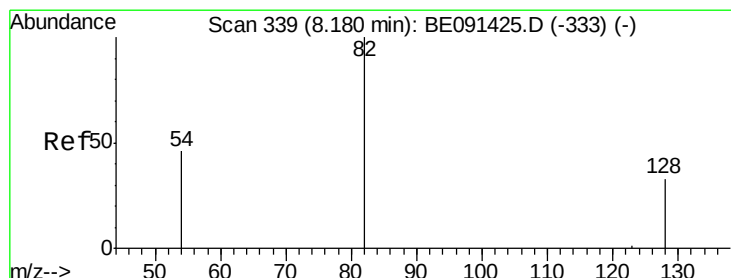
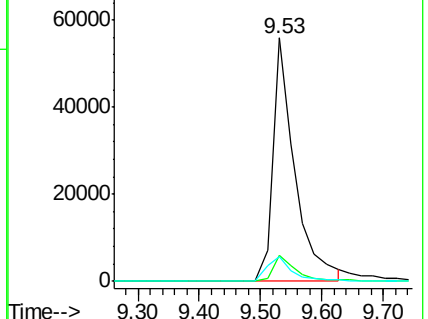
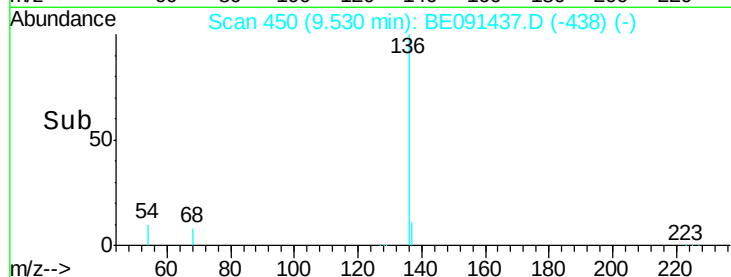
54 10.2 6.9 10.3



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: 4.10 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

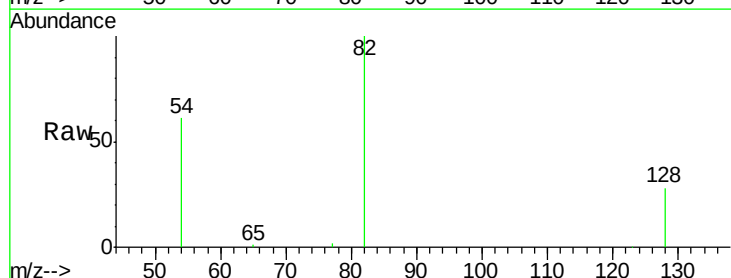
Tgt Ion: 82 Resp: 37429

Ion Ratio Lower Upper

82 100

128 28.2 30.0 45.0#

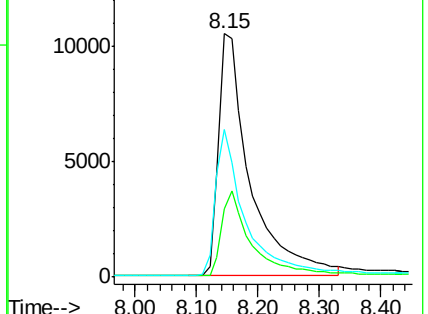
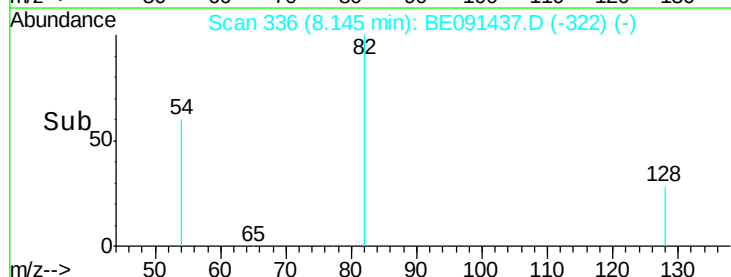
54 60.6 41.5 62.3

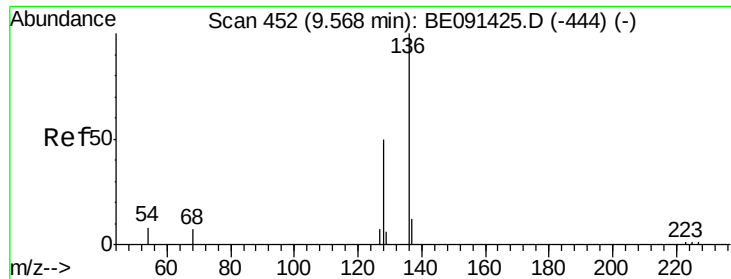


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.14 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

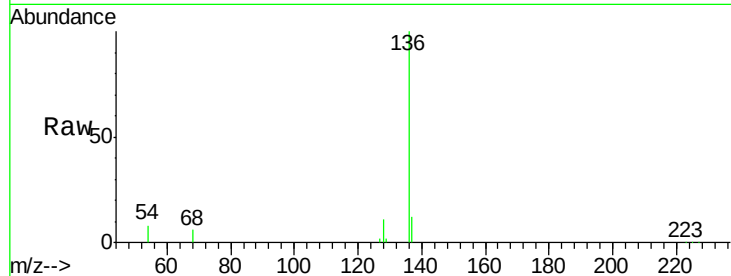
Tgt Ion:128 Resp: 4836

Ion Ratio Lower Upper

128 100

129 13.8 9.5 14.3

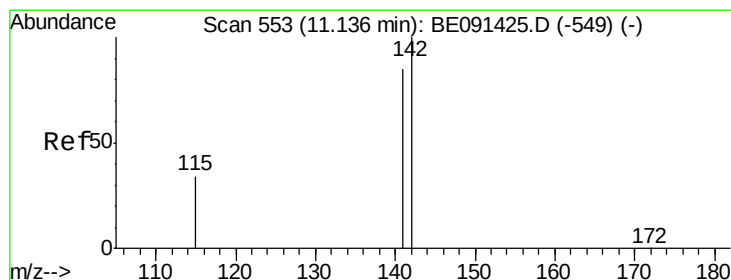
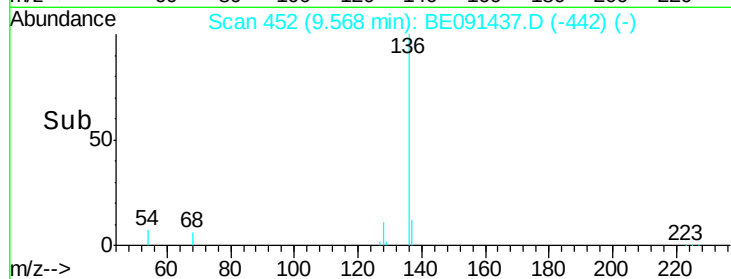
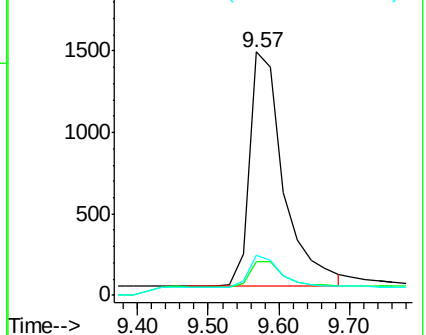
127 16.7 11.4 17.0



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: 11.15 min Scan# 554

Delta R.T. 0.01 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

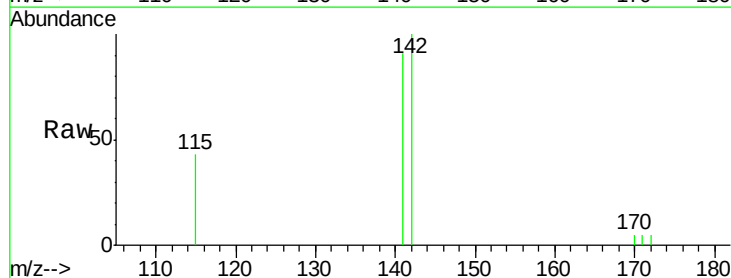
Tgt Ion:142 Resp: 2885

Ion Ratio Lower Upper

142 100

141 90.5 68.3 102.5

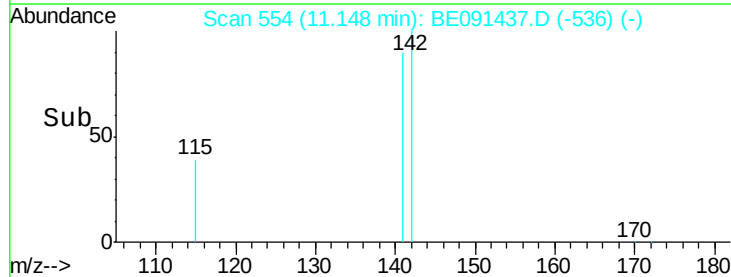
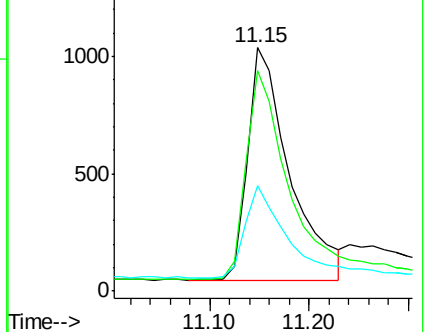
115 43.1 28.9 43.3

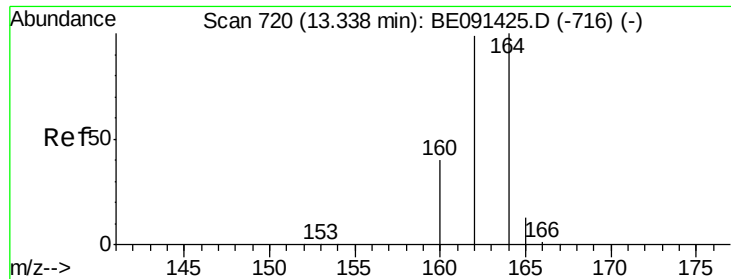


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

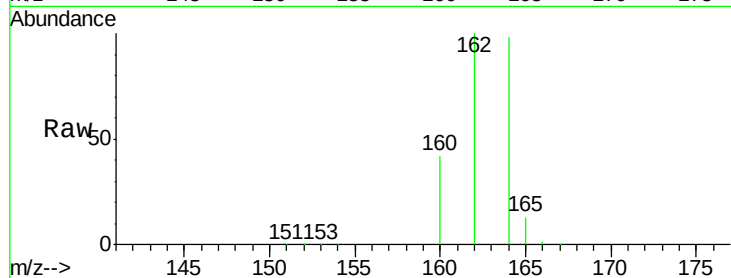
Tgt Ion:164 Resp: 92260

Ion Ratio Lower Upper

164 100

162 102.3 79.1 118.7

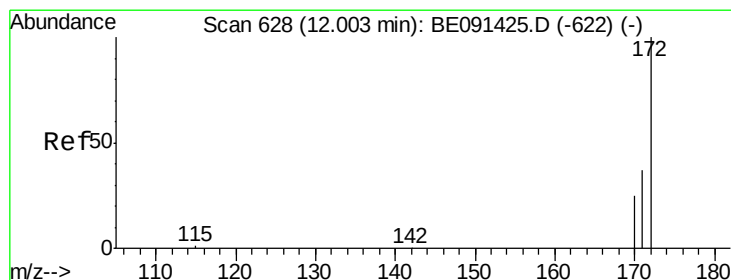
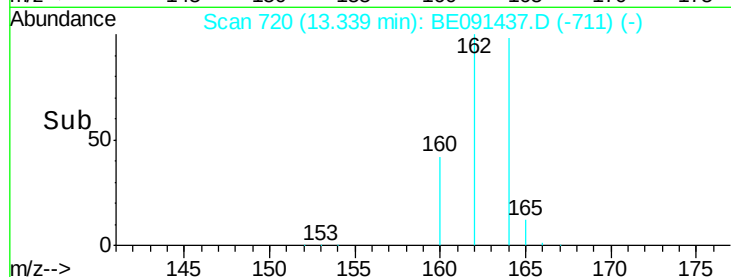
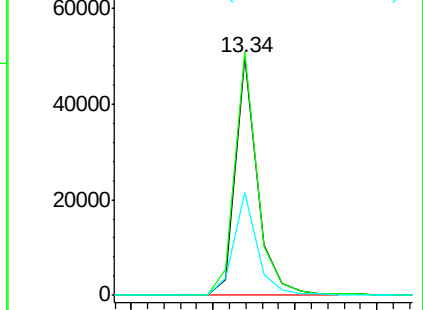
160 43.4 32.4 48.6



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: 4.80 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

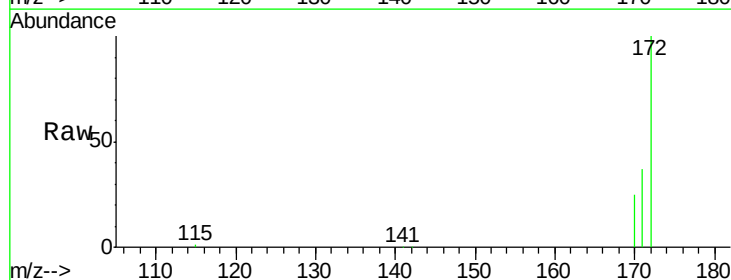
Tgt Ion:172 Resp: 107564

Ion Ratio Lower Upper

172 100

171 36.6 30.2 45.4

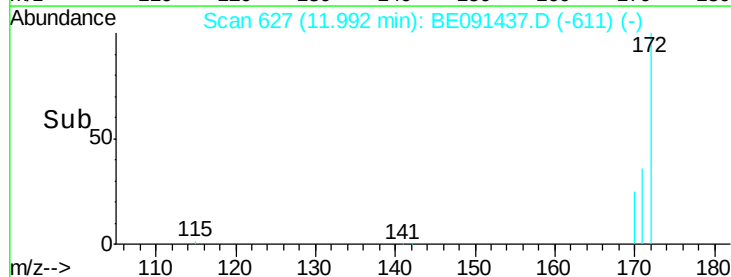
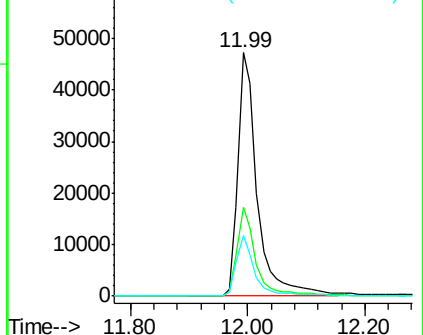
170 25.1 20.9 31.3

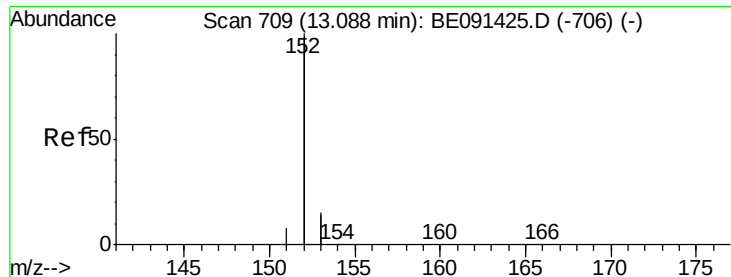


Abundance Ion 172.00 (171.70 to 172.70): E

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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

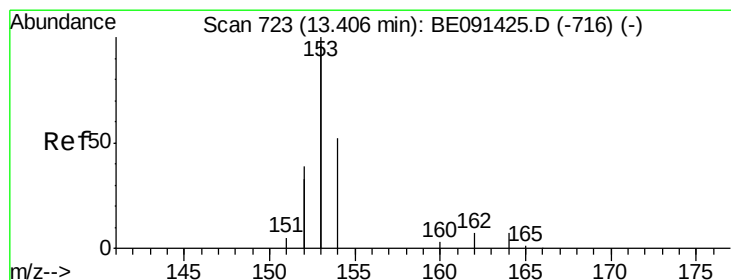
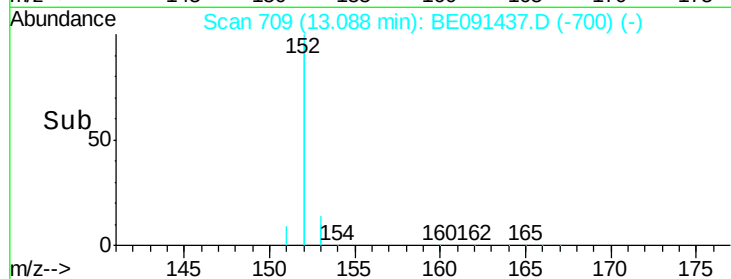
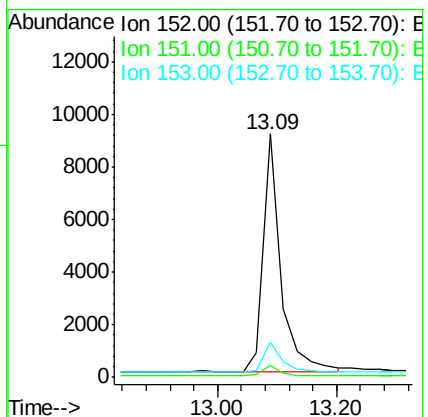
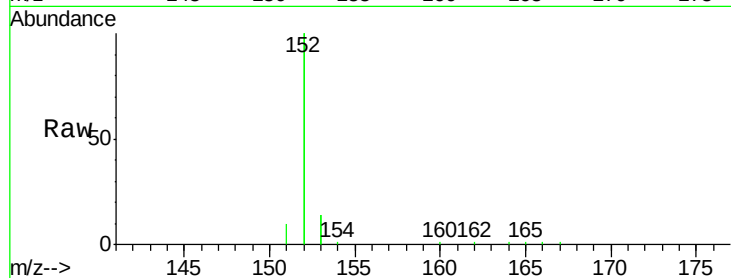
Tgt Ion:152 Resp: 18935

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

153 13.0 10.5 15.7



#11

Acenaphthene

Concen: 0.14 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

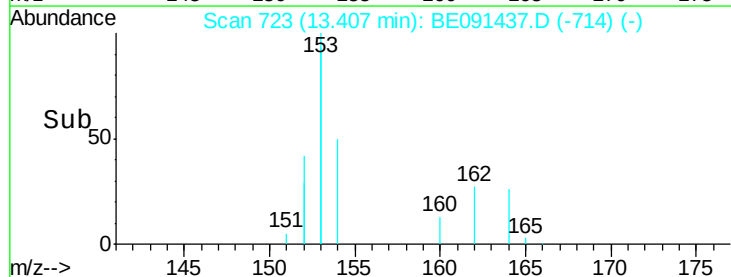
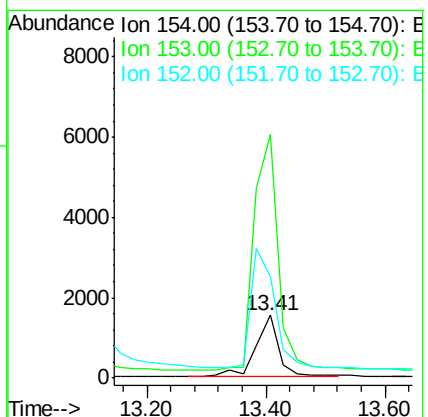
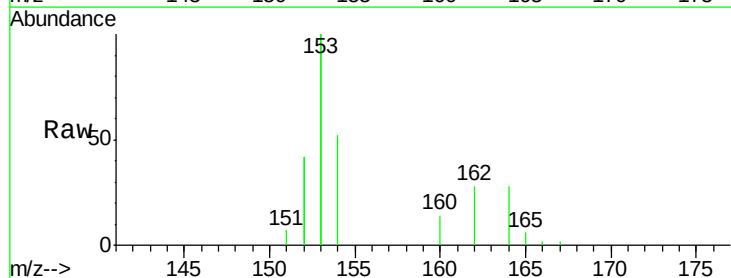
Tgt Ion:154 Resp: 3988

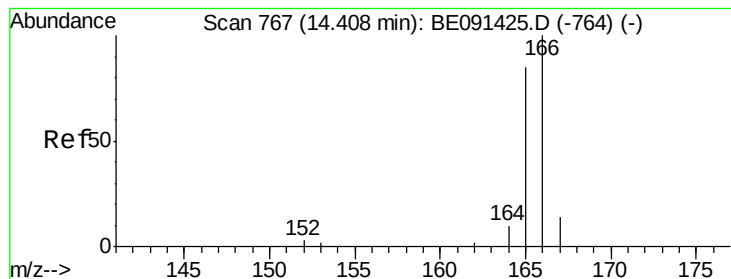
Ion Ratio Lower Upper

154 100

153 411.9 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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

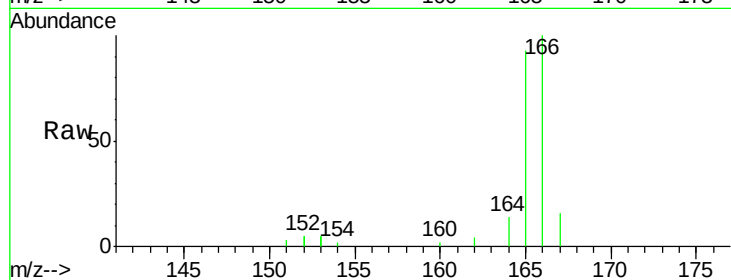
Tgt Ion:166 Resp: 4487

Ion Ratio Lower Upper

166 100

165 96.4 79.4 119.2

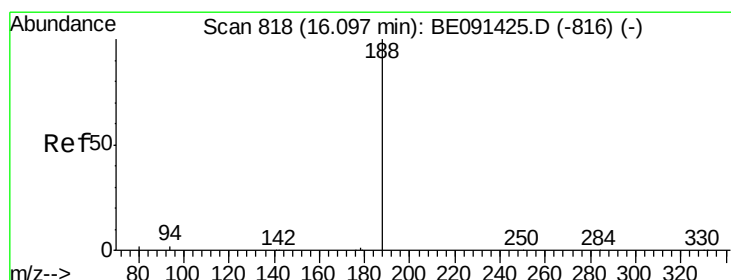
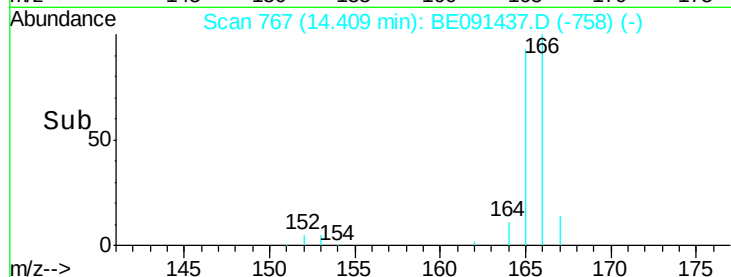
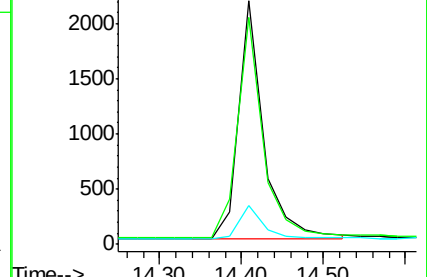
167 13.9 10.7 16.1



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: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

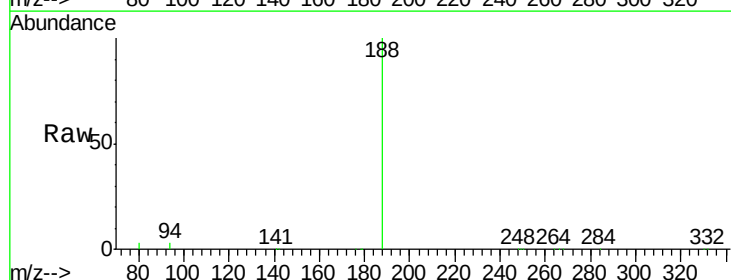
Tgt Ion:188 Resp: 152496

Ion Ratio Lower Upper

188 100

94 3.5 2.1 3.1#

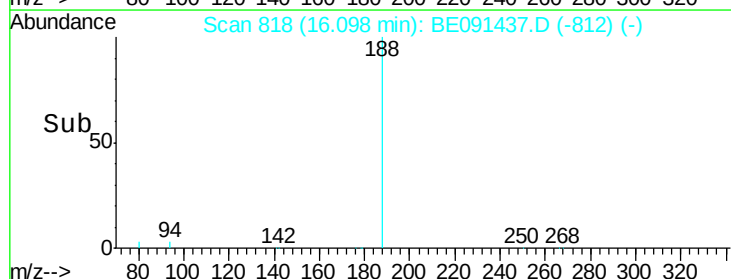
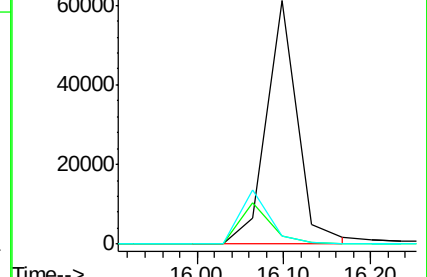
80 3.4 1.9 2.9#

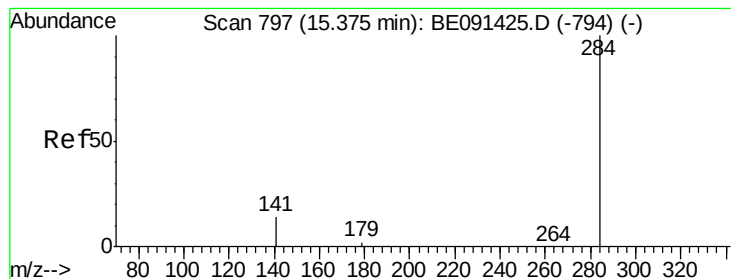


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#14

Hexachlorobenzene

Concen: 0.15 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

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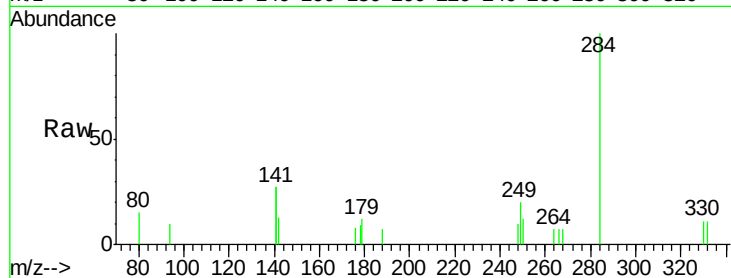
Tgt Ion:284 Resp: 1378

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

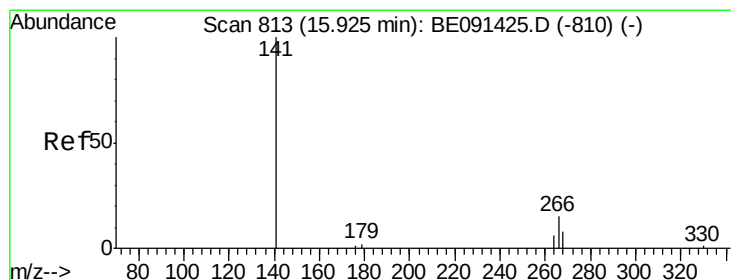
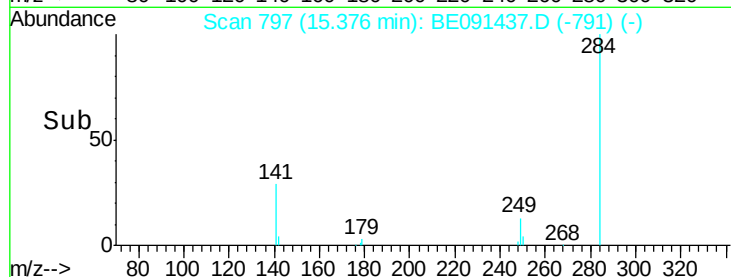
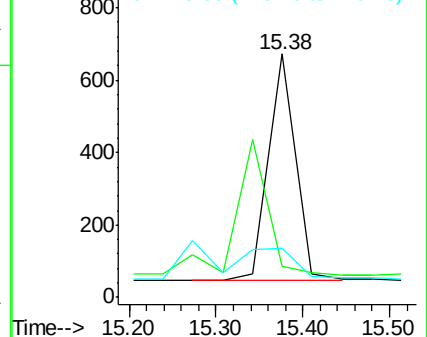
249 0.0 0.0 0.0



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: 15.96 min Scan# 814

Delta R.T. 0.04 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

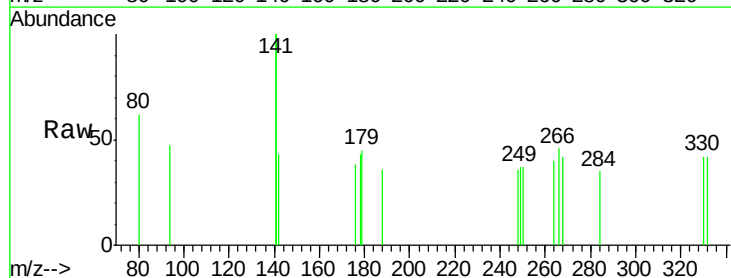
Tgt Ion:266 Resp: 103

Ion Ratio Lower Upper

266 100

268 90.5 73.0 109.6

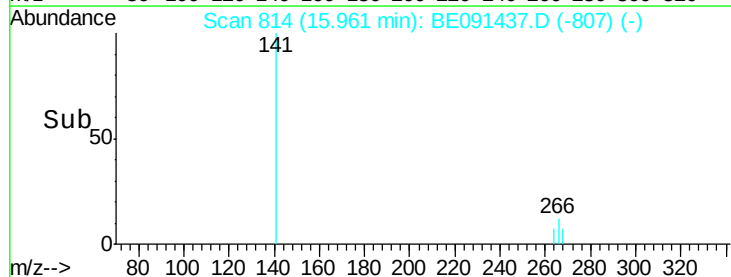
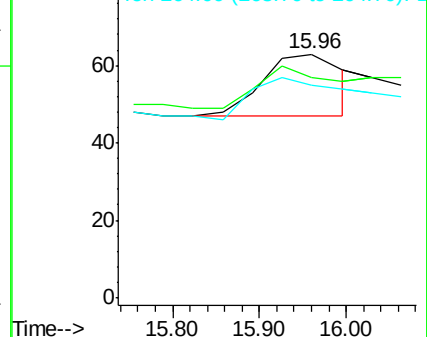
264 87.3 66.1 99.1

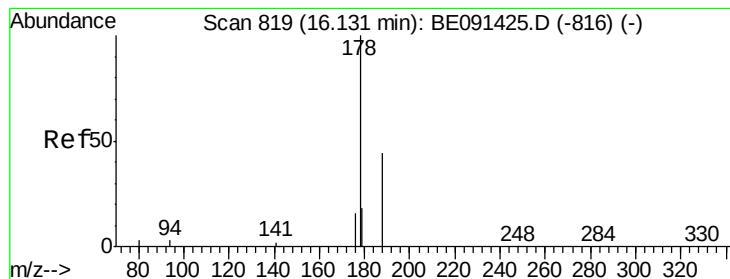


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 0.15 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

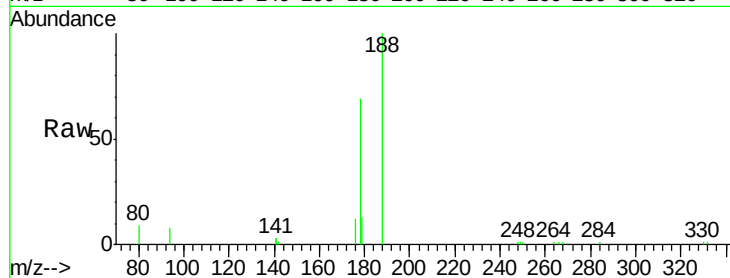
Tgt Ion:178 Resp: 8145

Ion Ratio Lower Upper

178 100

176 17.6 13.8 20.8

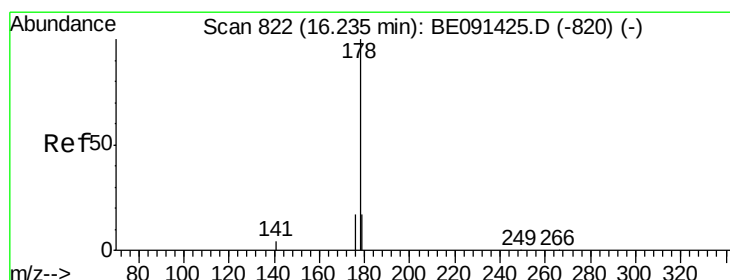
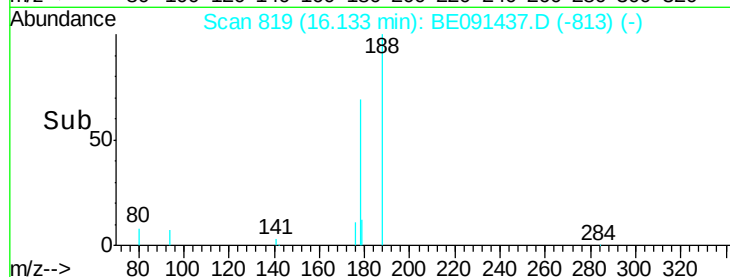
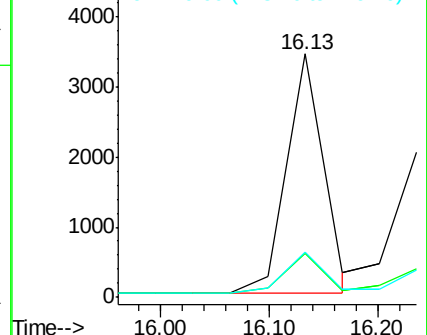
179 17.9 14.2 21.4



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: BE091437.D

Acq: 4 Mar 2016 00:00

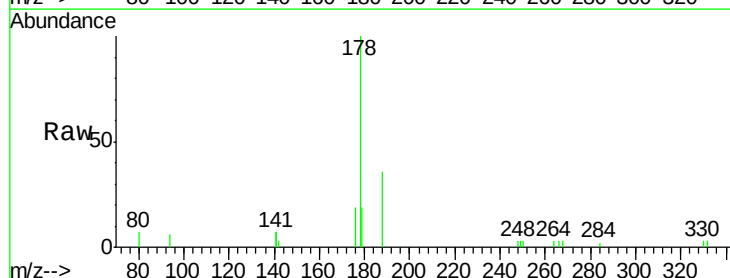
Tgt Ion:178 Resp: 4332

Ion Ratio Lower Upper

178 100

176 17.1 24.4 36.6#

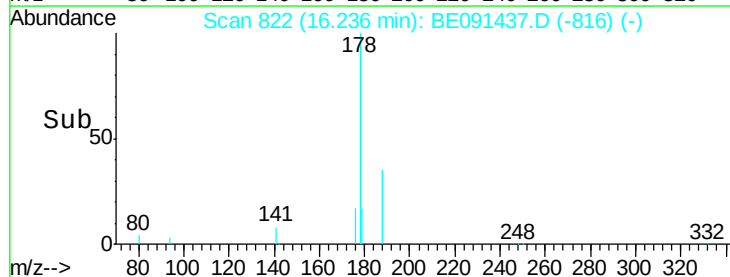
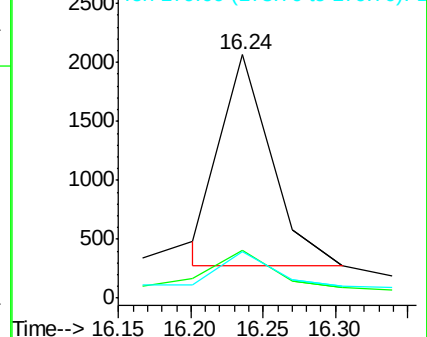
179 16.7 14.8 22.2

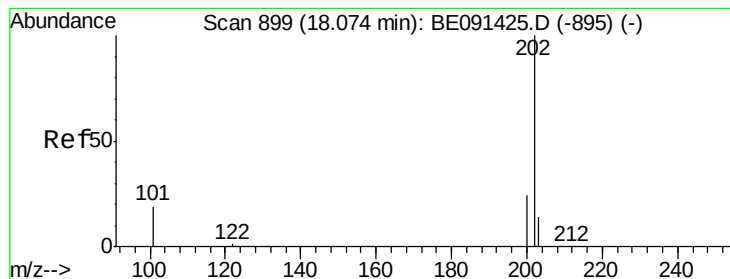


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#18

Fluoranthene

Concen: 0.21 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

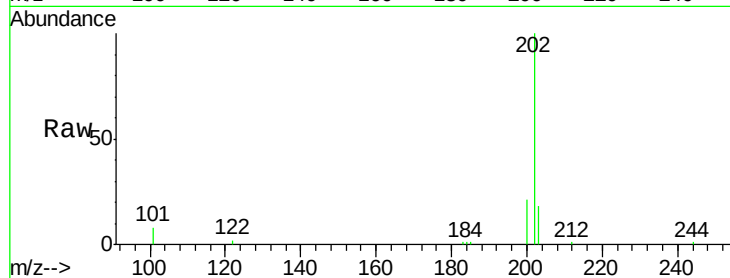
Tgt Ion:202 Resp: 8947

Ion Ratio Lower Upper

202 100

101 12.3 11.0 16.6

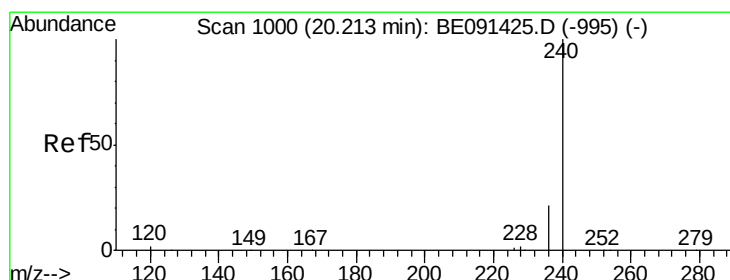
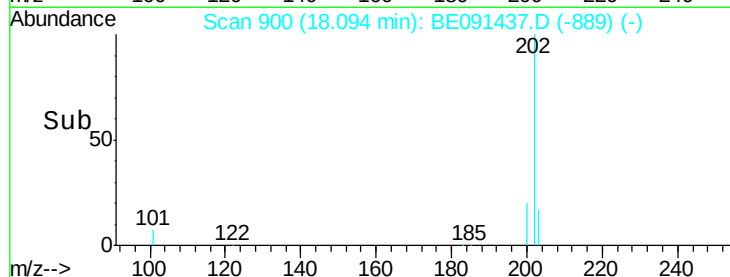
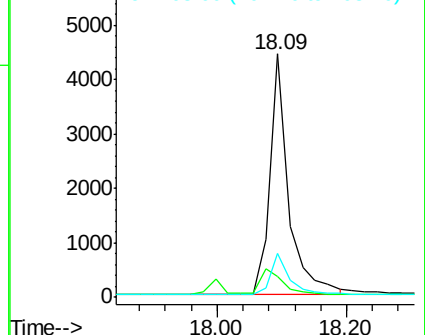
203 17.8 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

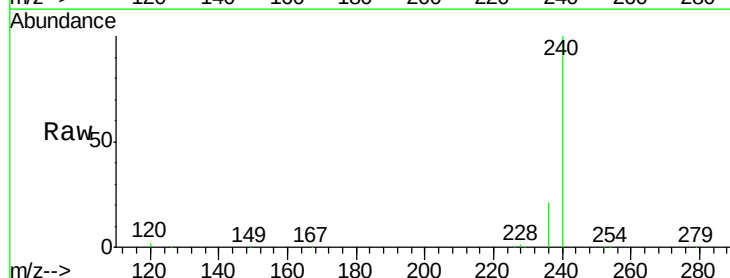
Tgt Ion:240 Resp: 237976

Ion Ratio Lower Upper

240 100

120 1.9 1.4 2.0

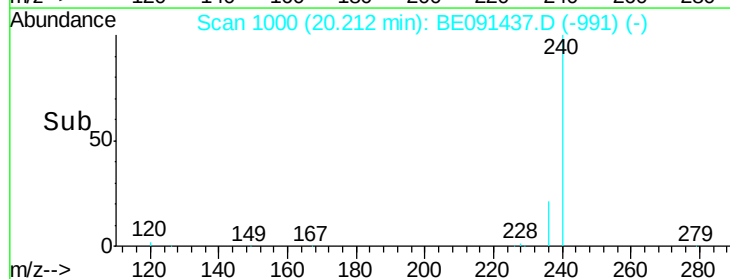
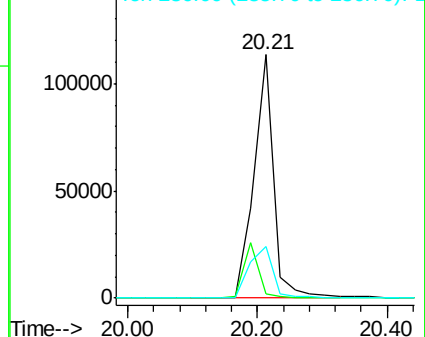
236 21.1 16.7 25.1

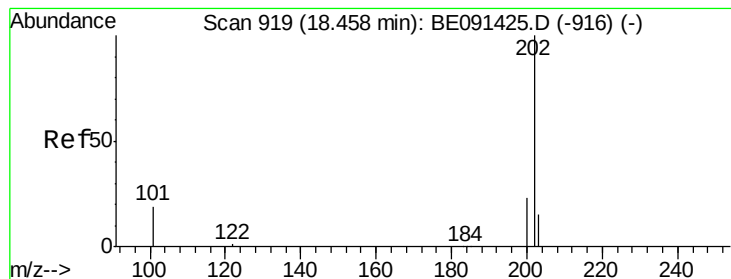


Abundance Ion 240.00 (239.70 to 240.70): E

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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

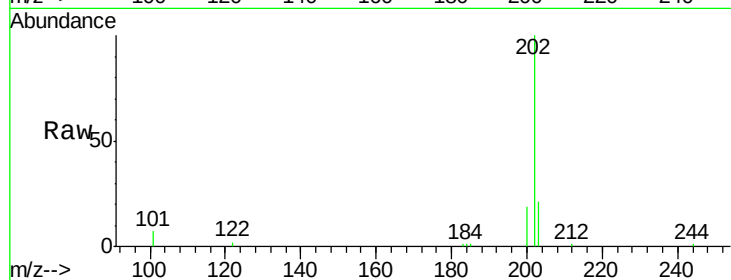
Tgt Ion:202 Resp: 9055

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

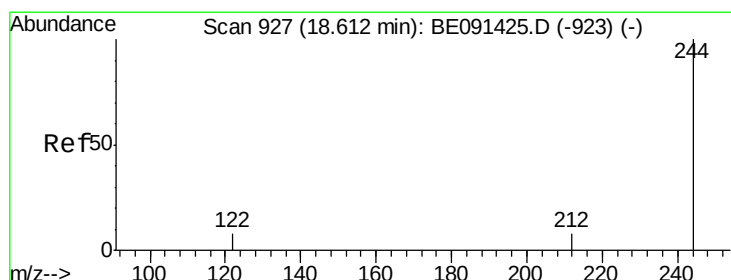
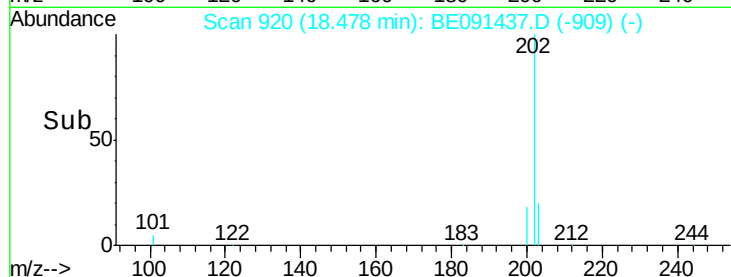
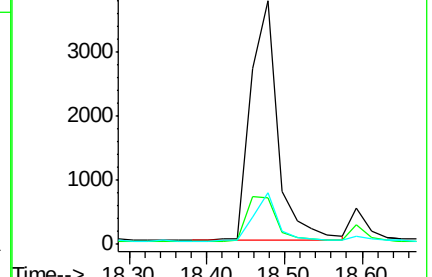
203 18.0 13.8 20.6



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: 5.02 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091437.D

Acq: 4 Mar 2016 00:00

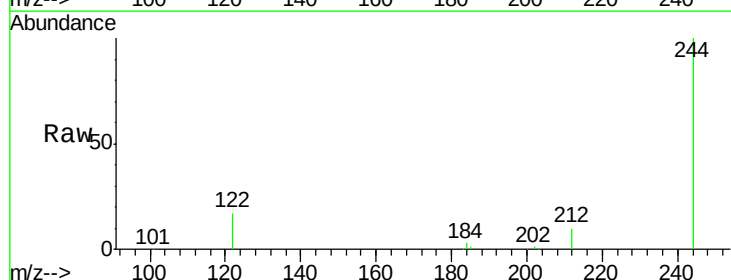
Tgt Ion:244 Resp: 181716

Ion Ratio Lower Upper

244 100

212 9.8 7.0 10.6

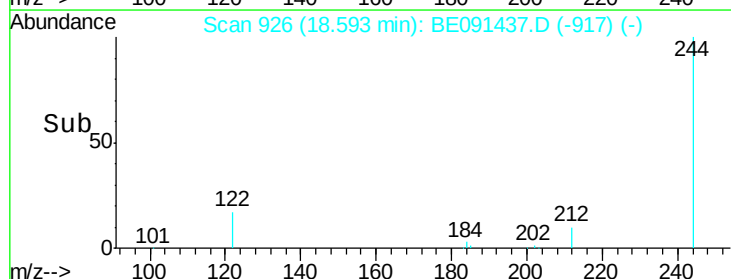
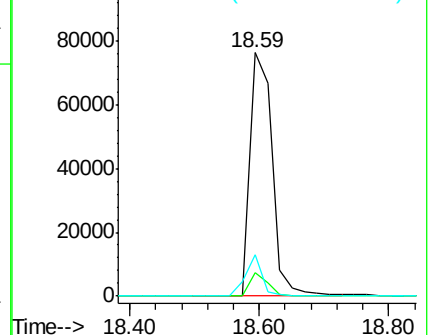
122 16.7 6.8 10.2#

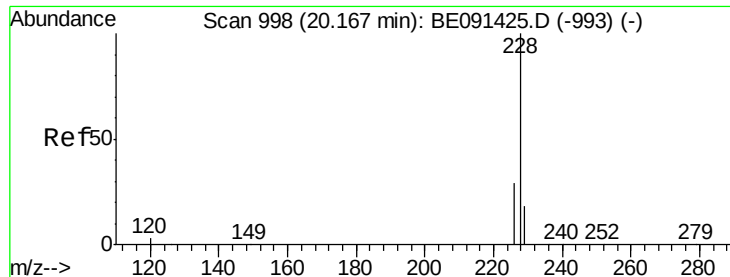


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

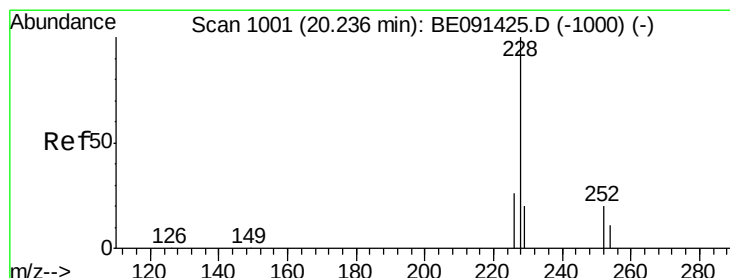
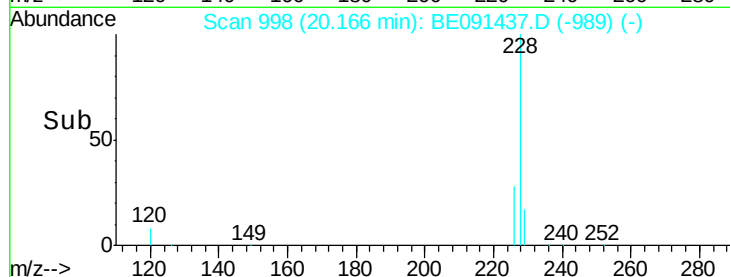
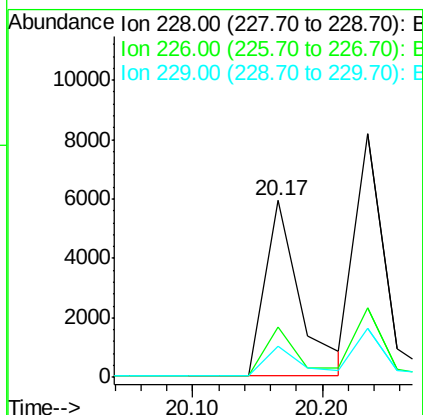
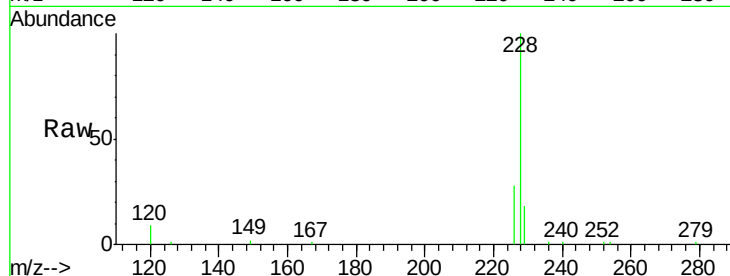




#22
Benzo(a)anthracene
Concen: 0.14 ng
RT: 20.17 min Scan# 998
Delta R.T. -0.00 min
Lab File: BE091437.D
Acq: 4 Mar 2016 00:00

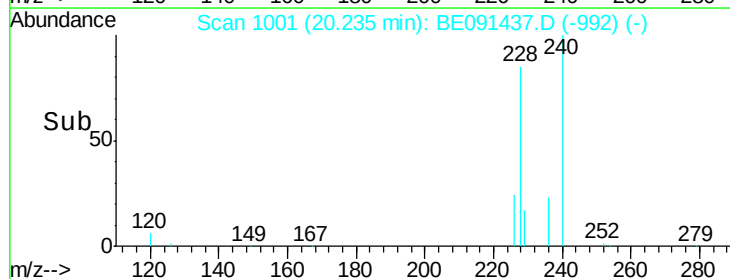
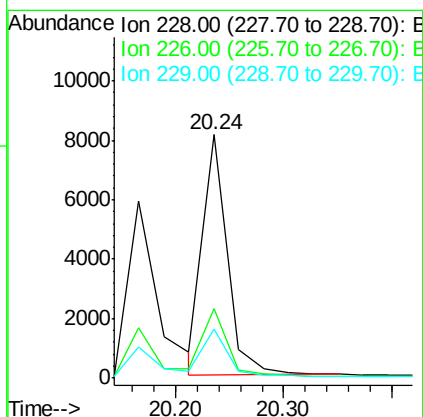
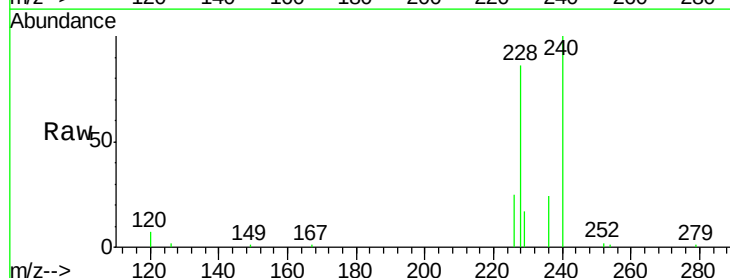
Instrument :
BNA_E
ClientSampled :
MDL-06-S

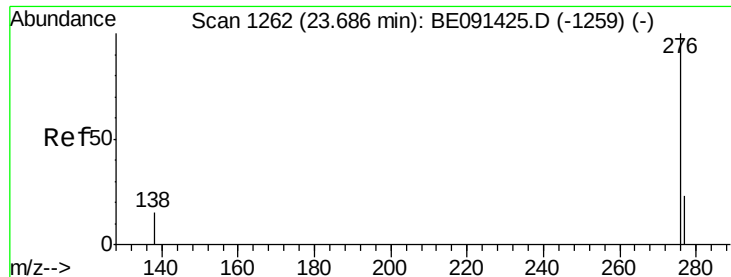
Tgt Ion:228 Resp: 11174
Ion Ratio Lower Upper
228 100
226 28.3 23.1 34.7
229 17.8 14.5 21.7



#23
Chrysene
Concen: 0.15 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091437.D
Acq: 4 Mar 2016 00:00

Tgt Ion:228 Resp: 12875
Ion Ratio Lower Upper
228 100
226 28.7 22.0 33.0
229 19.9 16.2 24.2

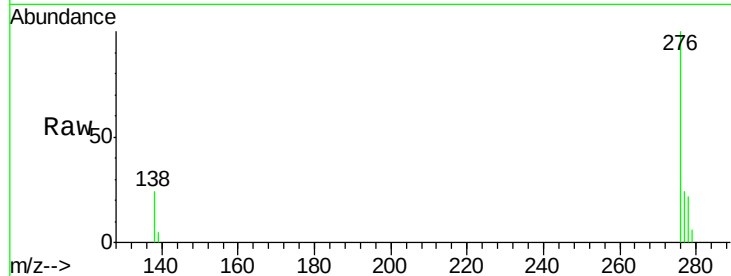




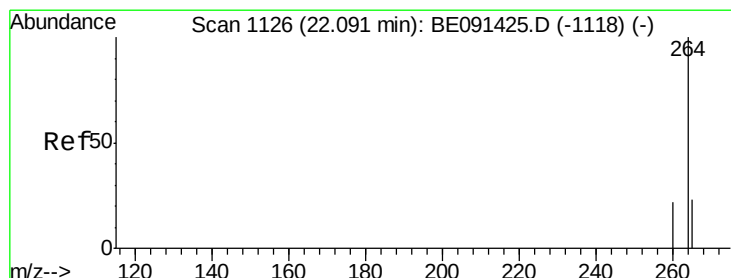
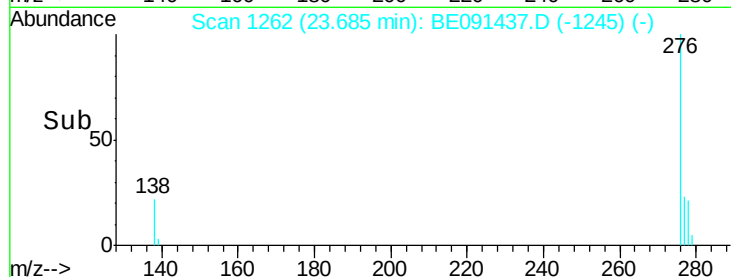
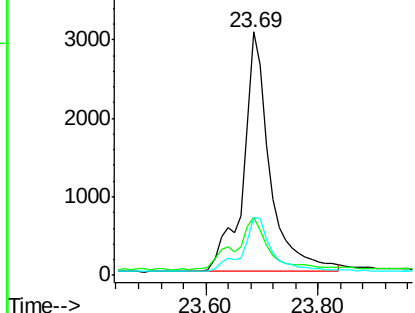
#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.14 ng
 RT: 23.69 min Scan# 1262
 Delta R.T. -0.00 min
 Lab File: BE091437.D
 Acq: 4 Mar 2016 00:00

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

Tgt Ion: 276 Resp: 10262
 Ion Ratio Lower Upper
 276 100
 138 26.5 16.1 24.1#
 277 25.1 22.9 34.3

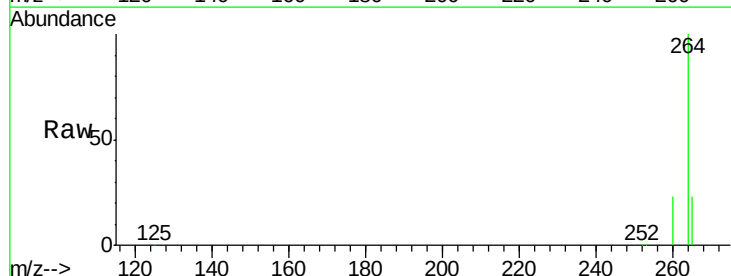


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

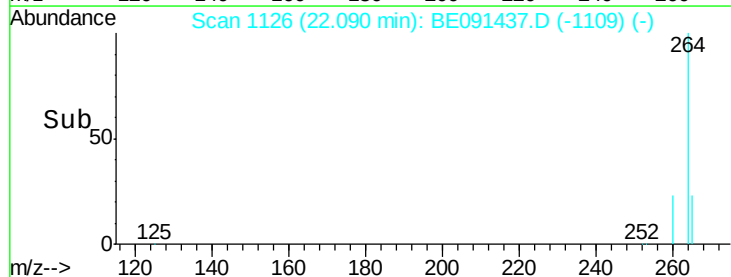
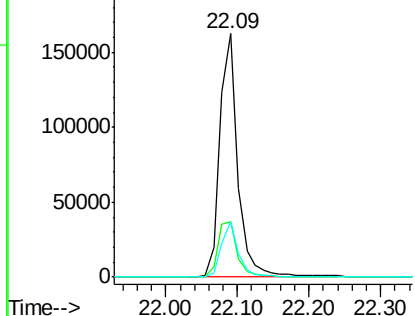


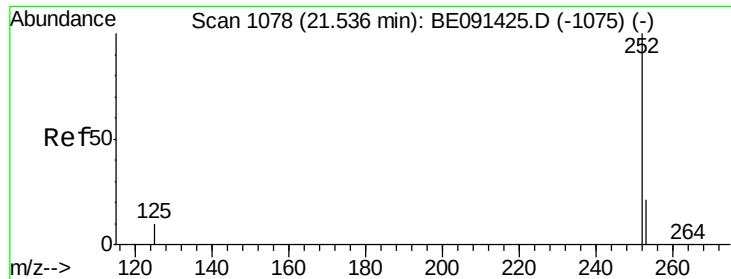
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091437.D
 Acq: 4 Mar 2016 00:00

Tgt Ion: 264 Resp: 283626
 Ion Ratio Lower Upper
 264 100
 260 22.5 18.0 27.0
 265 22.8 18.2 27.4



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

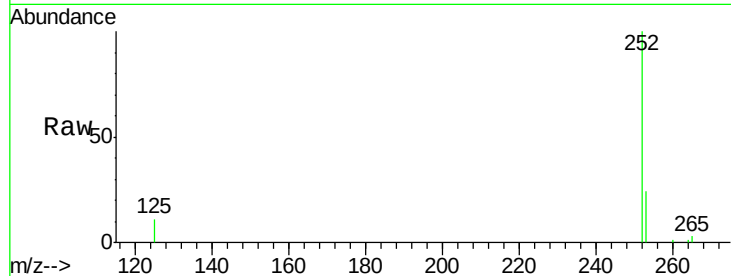




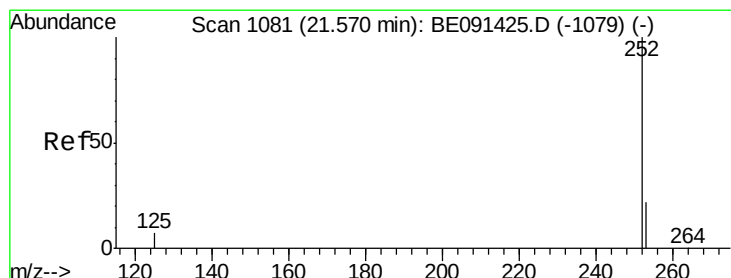
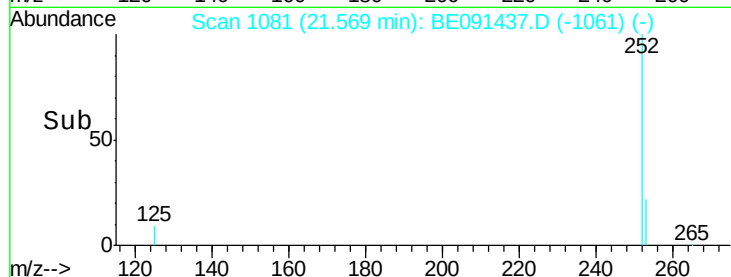
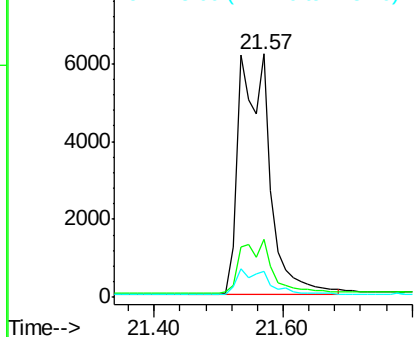
#26
Benzo(b)fluoranthene
Concen: 0.26 ng
RT: 21.57 min Scan# 1081
Delta R.T. 0.03 min
Lab File: BE091437.D
Acq: 4 Mar 2016 00:00

Instrument :
BNA_E
ClientSampleId :
MDL-06-S

Tgt Ion:252 Resp: 20216
Ion Ratio Lower Upper
252 100
253 24.0 17.0 25.4
125 10.6 8.3 12.5

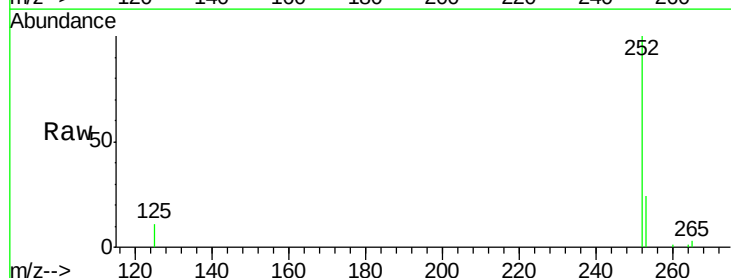


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

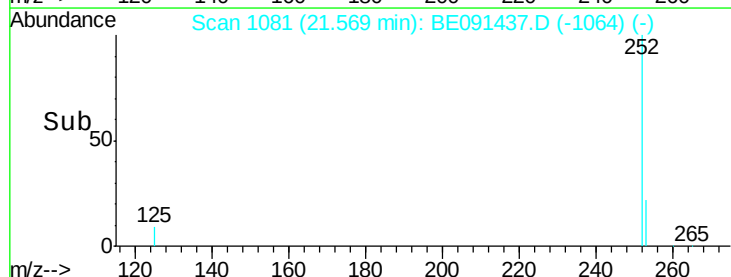
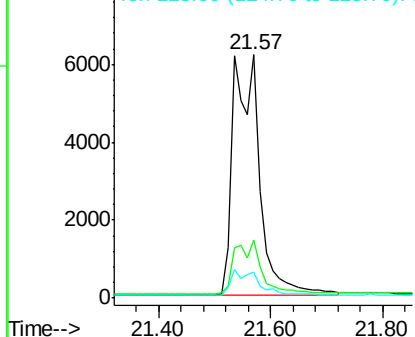


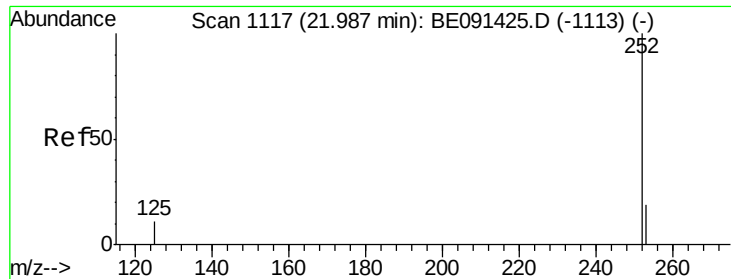
#27
Benzo(k)fluoranthene
Concen: 0.27 ng
RT: 21.57 min Scan# 1081
Delta R.T. -0.00 min
Lab File: BE091437.D
Acq: 4 Mar 2016 00:00

Tgt Ion:252 Resp: 20408
Ion Ratio Lower Upper
252 100
253 24.0 19.5 29.3
125 10.6 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: BE091437.D

Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

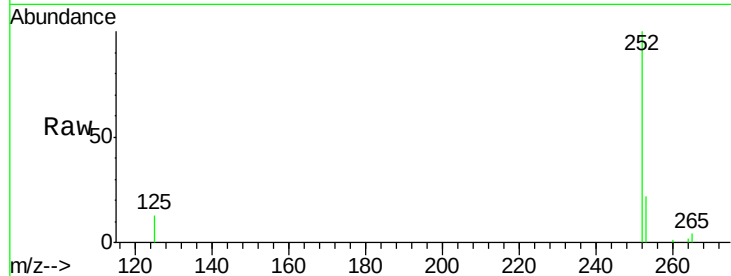
Tgt Ion:252 Resp: 9002

Ion Ratio Lower Upper

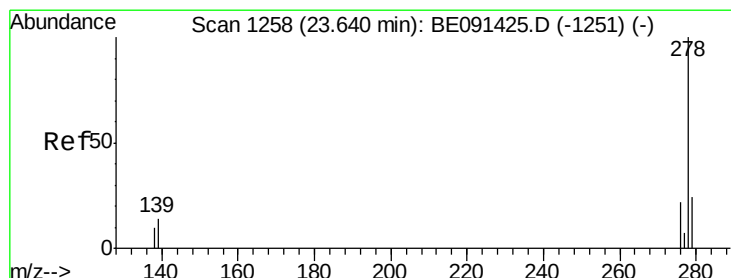
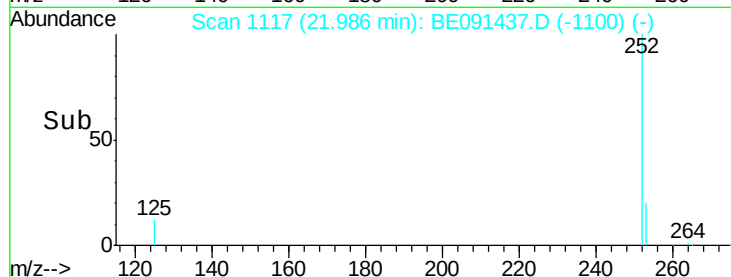
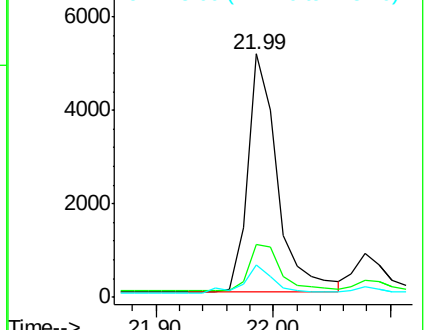
252 100

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: BE091437.D

Acq: 4 Mar 2016 00:00

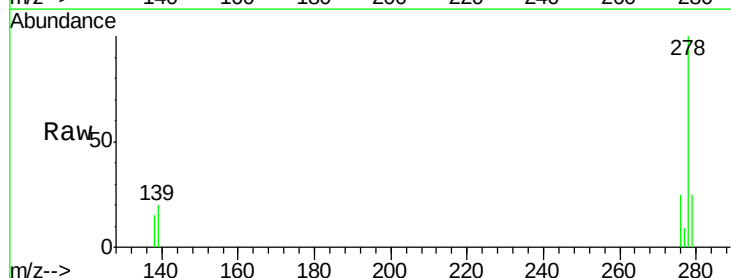
Tgt Ion:278 Resp: 8083

Ion Ratio Lower Upper

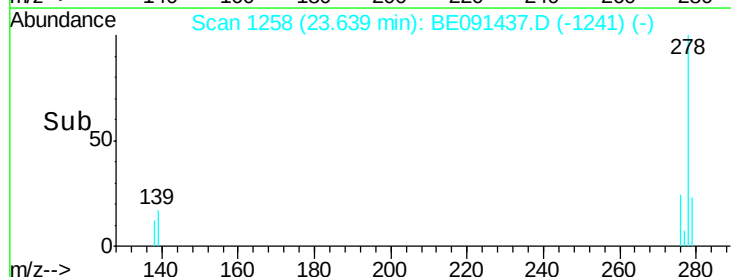
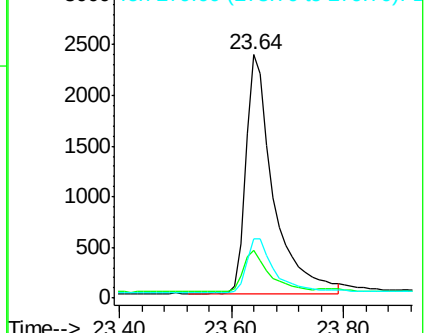
278 100

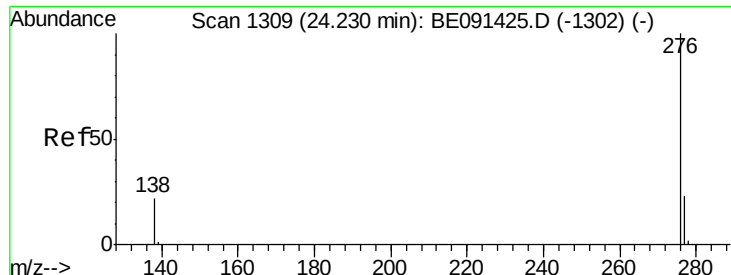
139 19.7 12.1 18.1#

279 24.5 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: BE091437.D

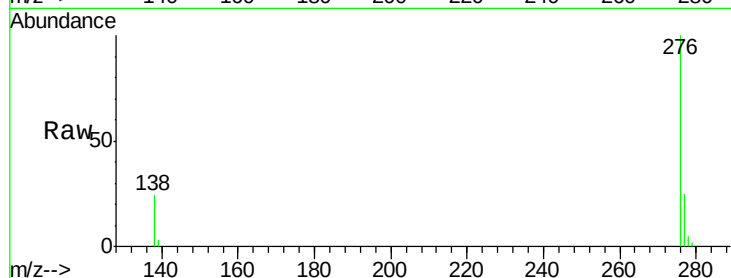
Acq: 4 Mar 2016 00:00

Instrument :

BNA_E

ClientSampleId :

MDL-06-S



Tgt Ion: 276 Resp: 9161

Ion Ratio Lower Upper

276 100

277 24.7 19.0 28.6

138 24.0 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

