

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091436.D
 Acq On : 3 Mar 2016 23:24
 Operator : UM/IZ
 Sample : MDL-05-S
 Misc : 0.008PPM
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Quant Time: Mar 04 08:04:53 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	33412	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	143622	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	90730	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	171868	5.00	ng	0.00
19) Chrysene-d12	20.21	240	237238	5.00	ng	0.00
25) Perylene-d12	22.09	264	277482	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.16	82	36797	4.14	ng	-0.02
9) 2-Fluorobiphenyl	12.00	172	106505	4.84	ng	0.00
21) Terphenyl-d14	18.61	244	177744	4.92	ng	0.00

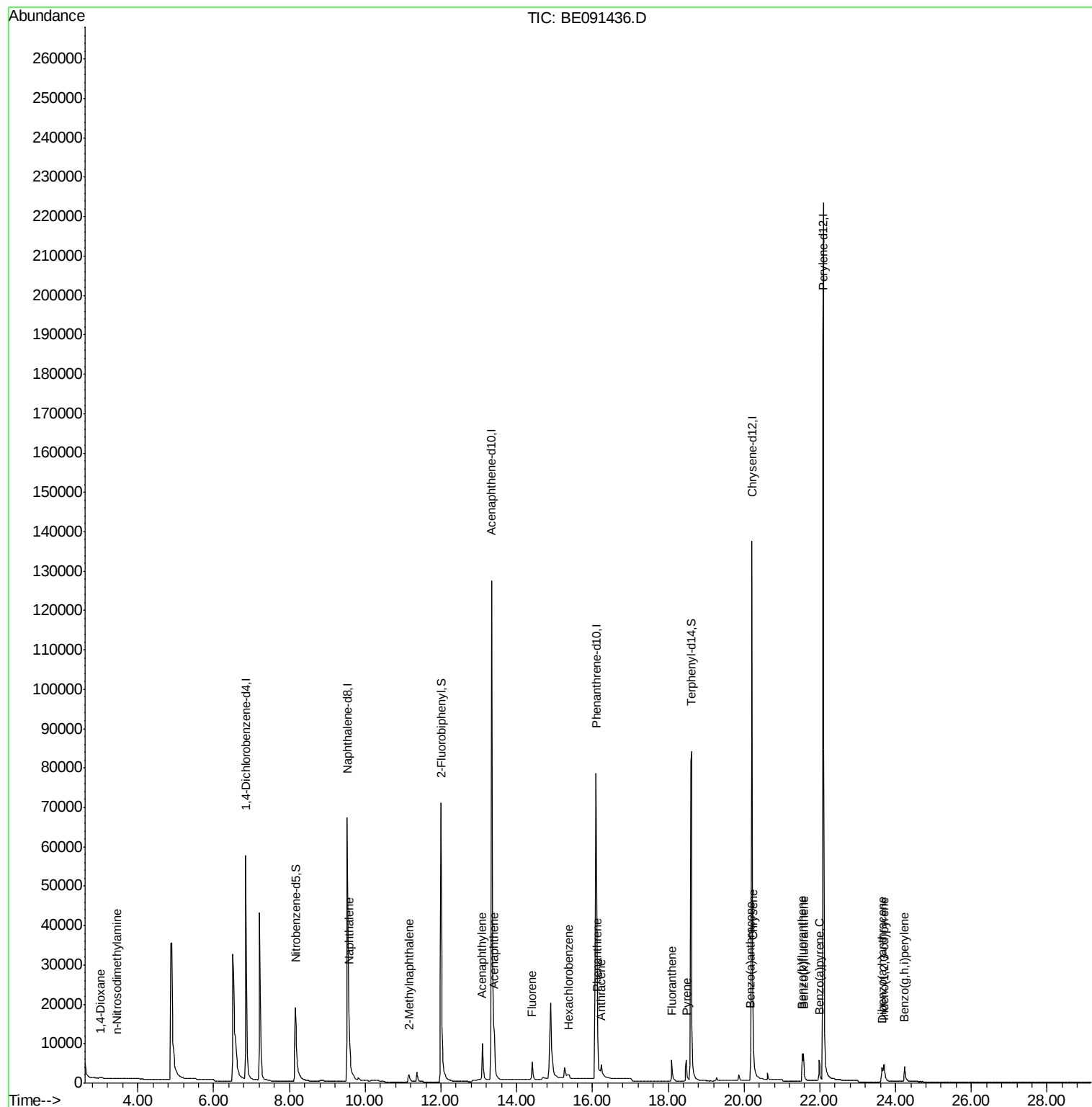
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	373	0.13	ng	95
3) n-Nitrosodimethylamine	3.44	42	11	0.05	ng	# 84
6) Naphthalene	9.57	128	4464	0.13	ng	# 94
7) 2-Methylnaphthalene	11.16	142	2684	0.14	ng	98
10) Acenaphthylene	13.09	152	17083	0.11	ng	100
11) Acenaphthene	13.41	154	3660	0.13	ng	# 100
12) Fluorene	14.41	166	4243	0.12	ng	97
14) Hexachlorobenzene	15.38	284	1541	0.15	ng	# 100
15) Pentachlorophenol	15.96	266	68	Below Cal		94
16) Phenanthrene	16.13	178	8615	0.14	ng	99
17) Anthracene	16.23	178	7080m	0.24	ng	
18) Fluoranthene	18.09	202	7582	0.19	ng	99
20) Pyrene	18.48	202	8049	0.12	ng	98
22) Benzo(a)anthracene	20.17	228	9082	0.11	ng	99
23) Chrysene	20.24	228	11110	0.13	ng	99
24) Indeno(1,2,3-cd)pyrene	23.70	276	7925m	0.11	ng	
26) Benzo(b)fluoranthene	21.54	252	10250m	0.13	ng	
27) Benzo(k)fluoranthene	21.57	252	8311m	0.11	ng	
28) Benzo(a)pyrene	21.99	252	7294	0.11	ng	94
29) Dibenzo(a,h)anthracene	23.64	278	6866	0.11	ng	# 94
30) Benzo(g,h,i)perylene	24.24	276	8128	0.12	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: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

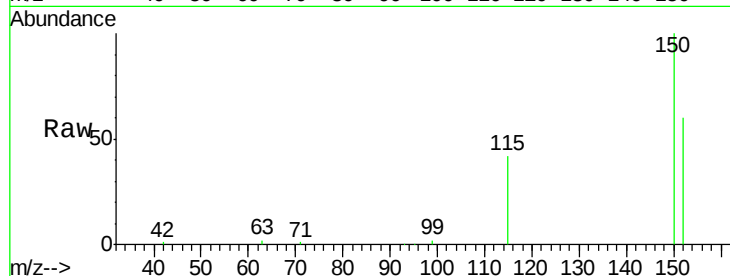
Tgt Ion:152 Resp: 33412

Ion Ratio Lower Upper

152 100

150 167.0 115.0 172.4

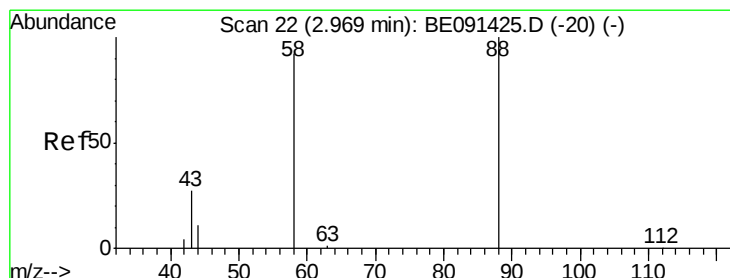
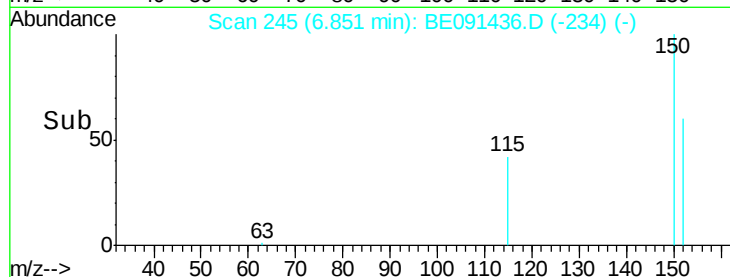
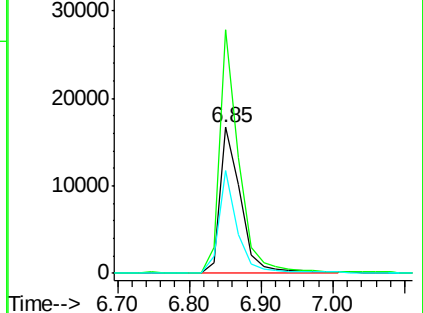
115 70.1 42.2 63.4#



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: 0.13 ng

RT: 3.00 min Scan# 24

Delta R.T. 0.03 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

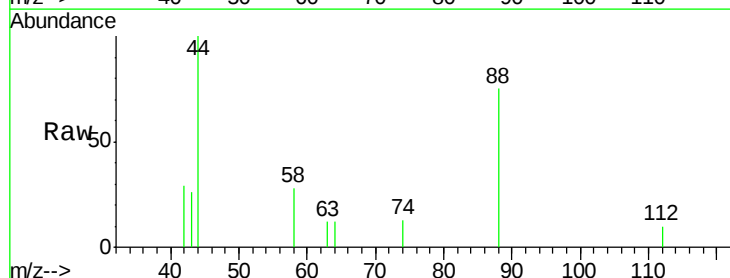
Tgt Ion: 88 Resp: 373

Ion Ratio Lower Upper

88 100

58 116.1 97.9 146.9

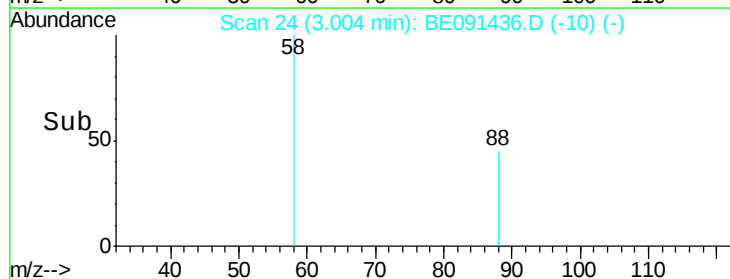
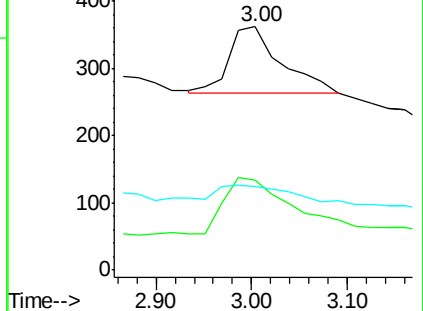
43 33.8 29.0 43.4

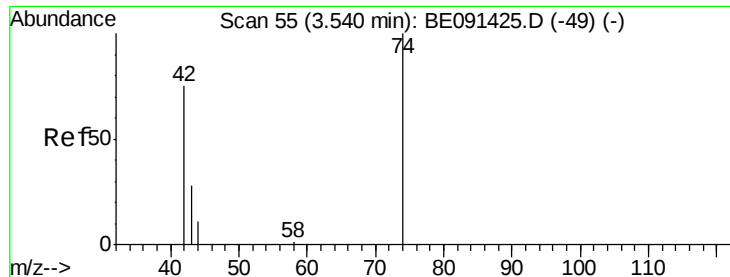


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.44 min Scan# 49

Delta R.T. -0.10 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

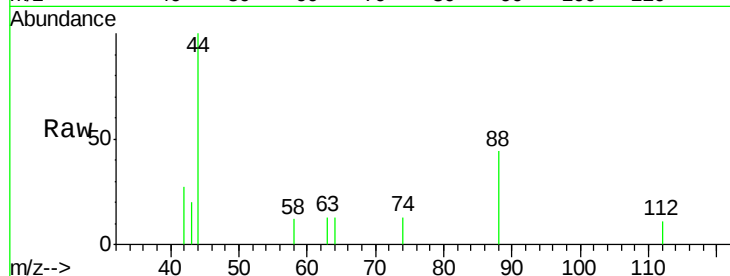
Tgt Ion: 42 Resp: 11

Ion Ratio Lower Upper

42 100

74 100.0 93.8 140.6

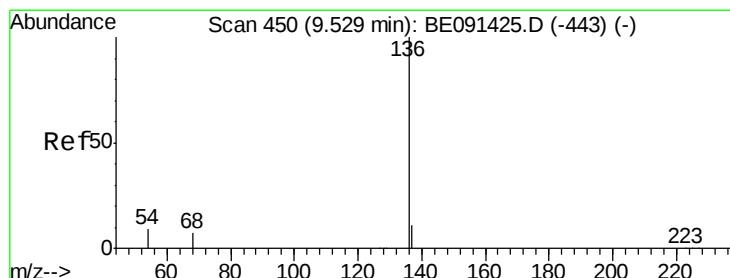
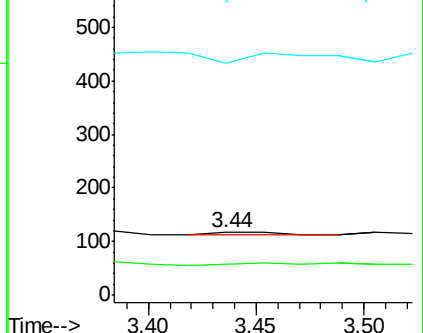
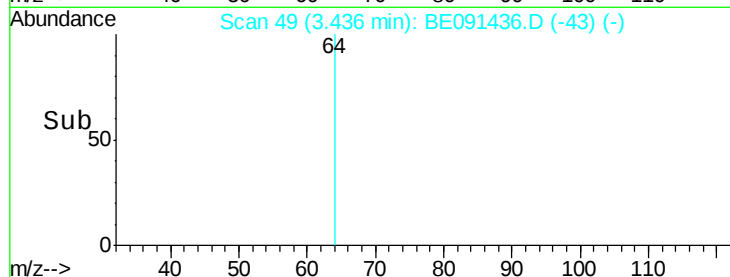
44 454.5 0.0 0.0#



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: BE091436.D

Acq: 3 Mar 2016 23:24

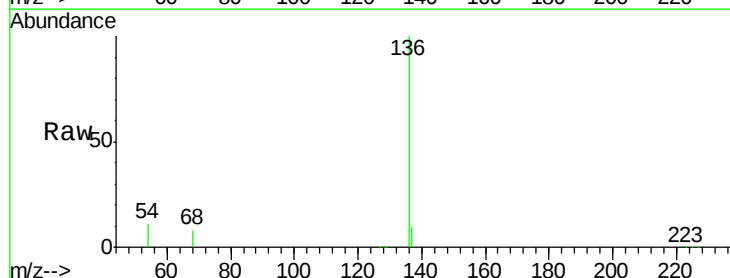
Tgt Ion: 136 Resp: 143622

Ion Ratio Lower Upper

136 100

137 10.4 8.7 13.1

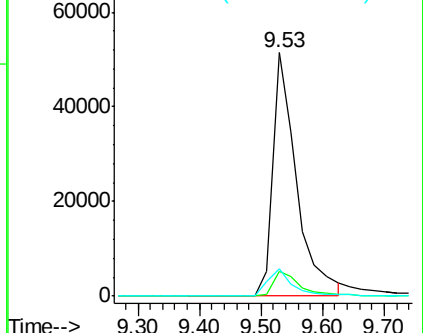
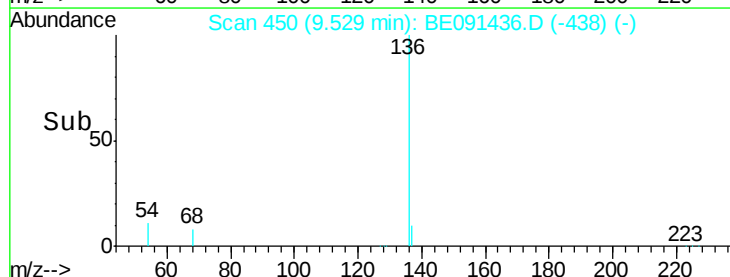
54 11.5 6.9 10.3#

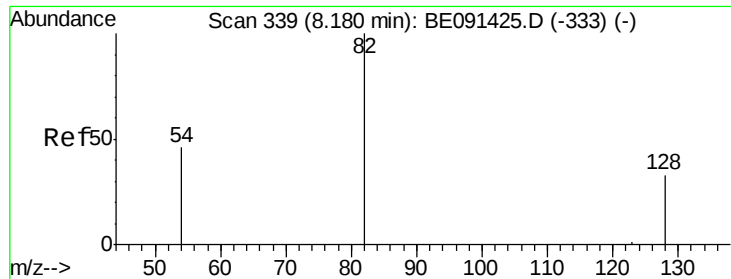


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.14 ng

RT: 8.16 min Scan# 337

Delta R.T. -0.02 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampled :

MDL-05-S

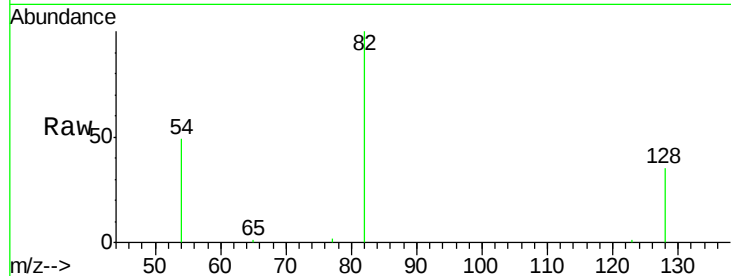
Tgt Ion: 82 Resp: 36797

Ion Ratio Lower Upper

82 100

128 34.7 30.0 45.0

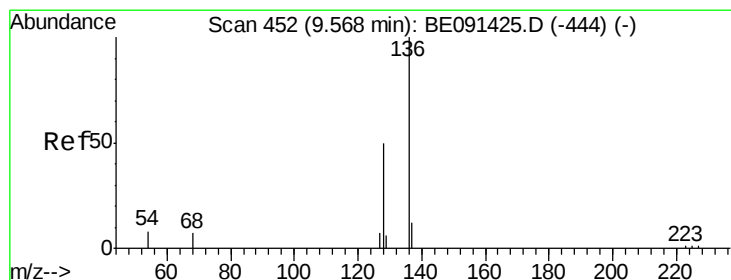
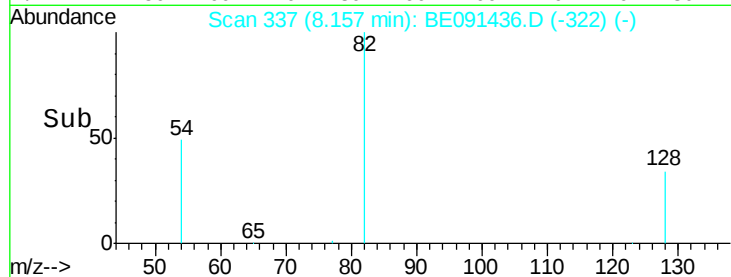
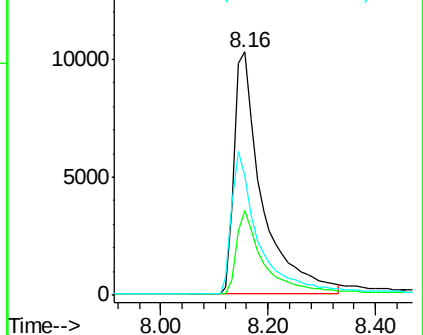
54 49.0 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091436.D (-337) (-)

Ion 128.00 (127.70 to 128.70): BE091436.D (-337) (-)

Ion 54.00 (53.70 to 54.70): BE091436.D (-337) (-)



#6

Naphthalene

Concen: 0.13 ng

RT: 9.57 min Scan# 452

Delta R.T. -0.00 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

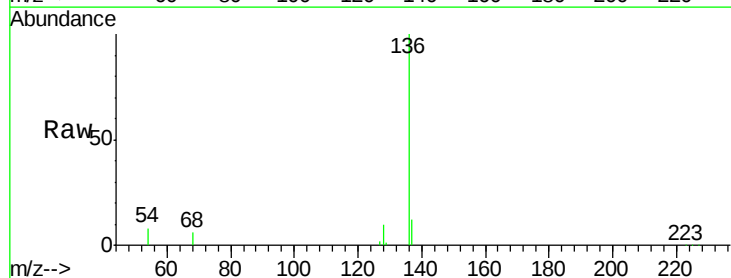
Tgt Ion: 128 Resp: 4464

Ion Ratio Lower Upper

128 100

129 13.5 9.5 14.3

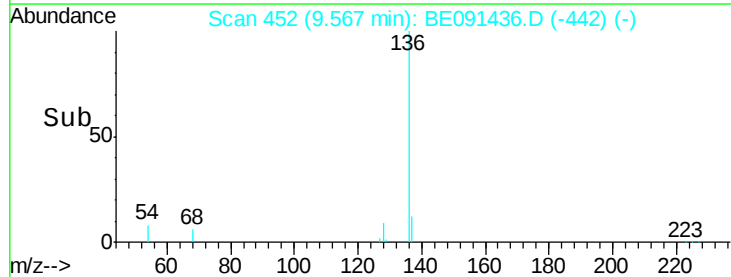
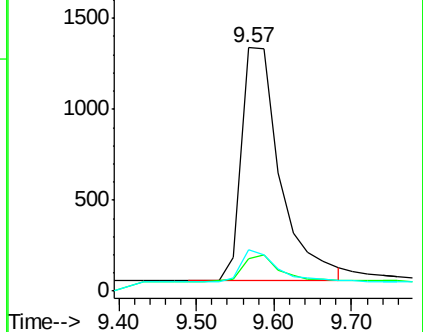
127 17.1 11.4 17.0#

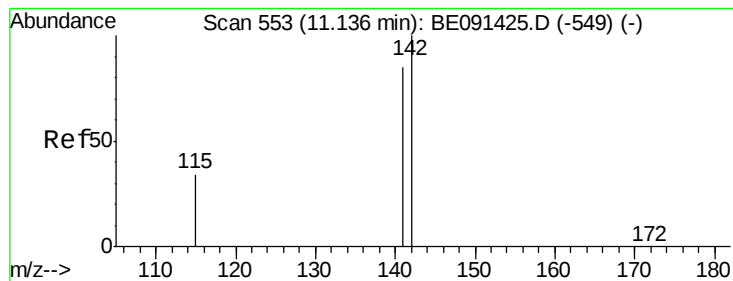


Abundance Ion 128.00 (127.70 to 128.70): BE091436.D (-442) (-)

Ion 129.00 (128.70 to 129.70): BE091436.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091436.D (-442) (-)





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 11.16 min Scan# 555

Delta R.T. 0.02 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

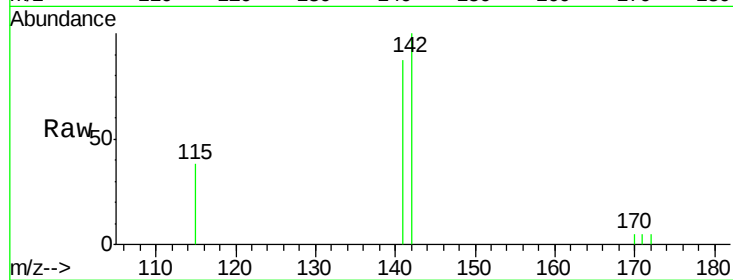
Tgt Ion:142 Resp: 2684

Ion Ratio Lower Upper

142 100

141 86.6 68.3 102.5

115 37.5 28.9 43.3



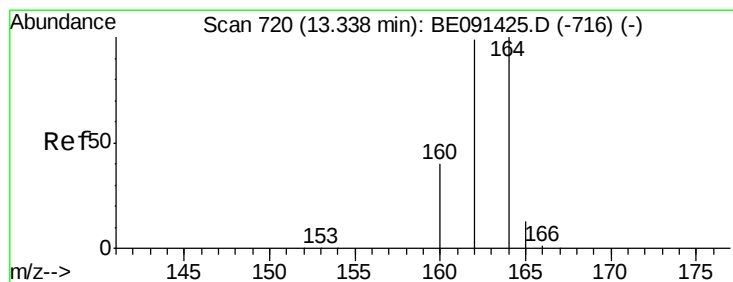
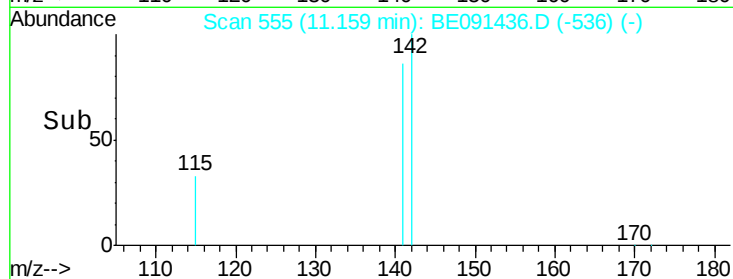
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.16

Time--> 11.00 11.10 11.20



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 720

Delta R.T. -0.00 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

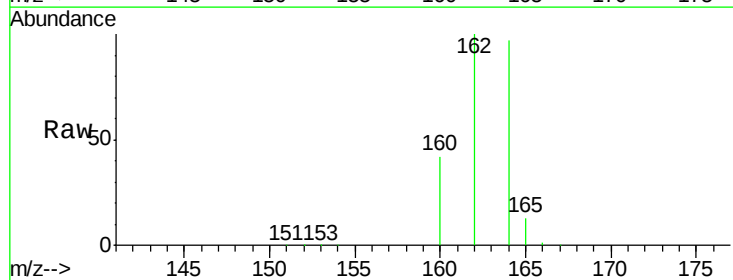
Tgt Ion:164 Resp: 90730

Ion Ratio Lower Upper

164 100

162 103.2 79.1 118.7

160 43.6 32.4 48.6



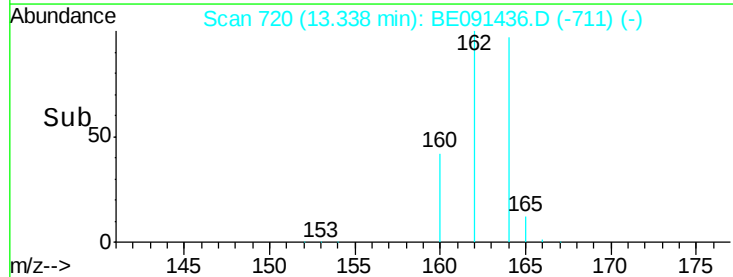
Abundance Ion 164.00 (163.70 to 164.70): E

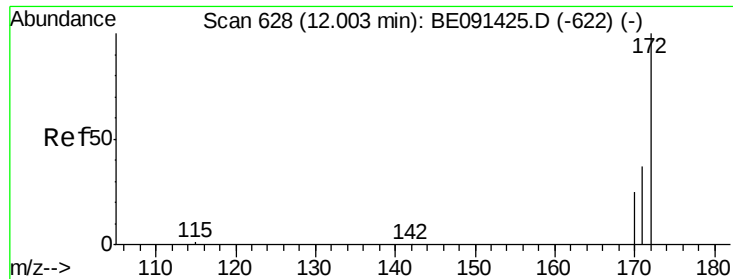
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

13.34

Time--> 13.20 13.30 13.40 13.50

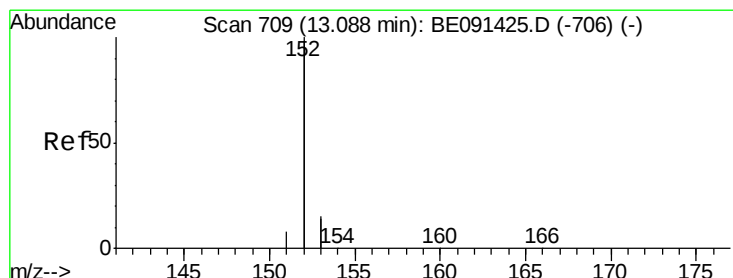
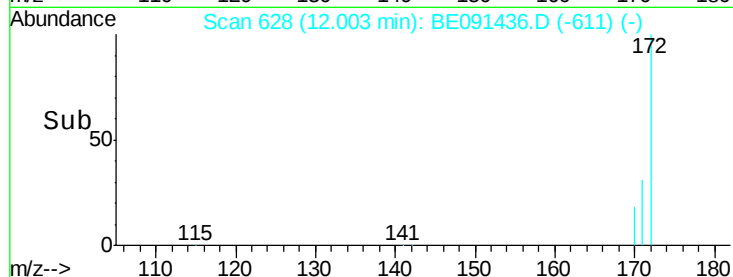
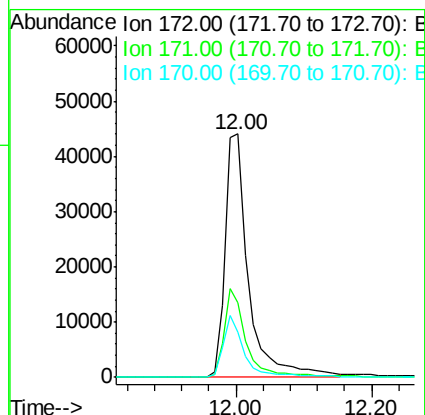
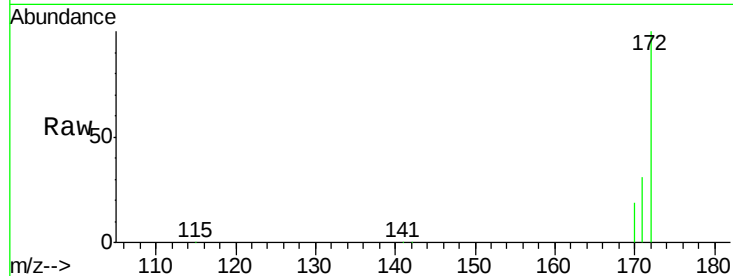




#9
2-Fluorobiphenyl
Concen: 4.84 ng
RT: 12.00 min Scan# 628
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

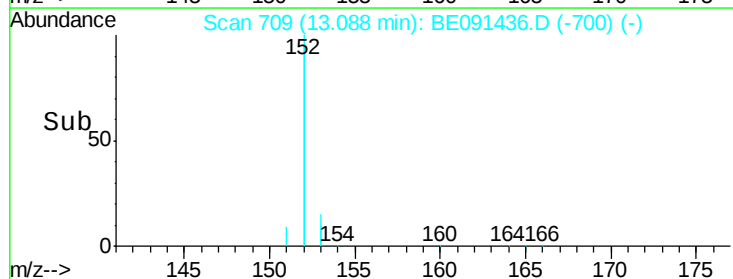
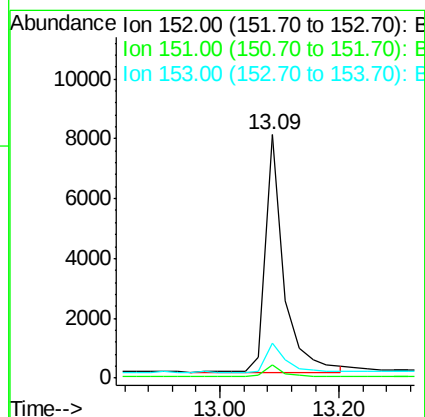
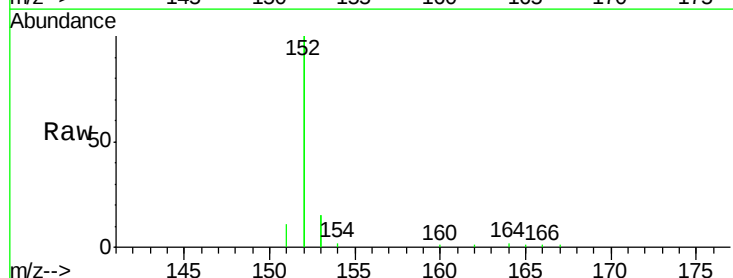
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

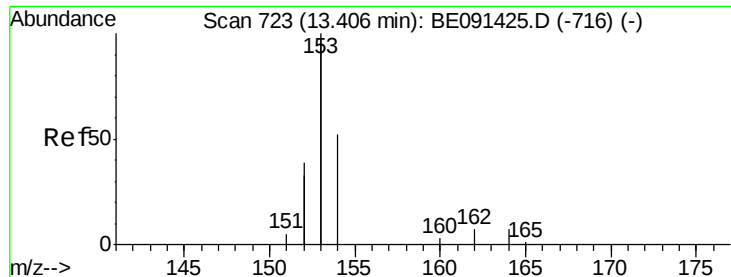
Tgt Ion:172 Resp: 106505
Ion Ratio Lower Upper
172 100
171 30.6 30.2 45.4
170 18.6 20.9 31.3#



#10
Acenaphthylene
Concen: 0.11 ng
RT: 13.09 min Scan# 709
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

Tgt Ion:152 Resp: 17083
Ion Ratio Lower Upper
152 100
151 5.0 3.9 5.9
153 12.9 10.5 15.7





#11

Acenaphthene

Concen: 0.13 ng

RT: 13.41 min Scan# 723

Delta R.T. -0.00 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

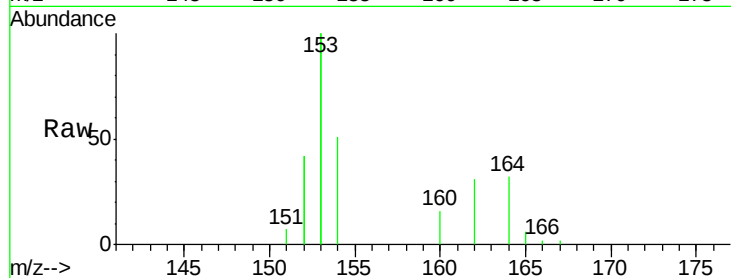
Tgt Ion:154 Resp: 3660

Ion Ratio Lower Upper

154 100

153 412.4 0.0 0.0#

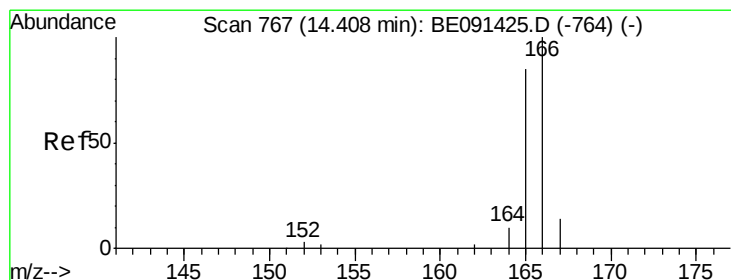
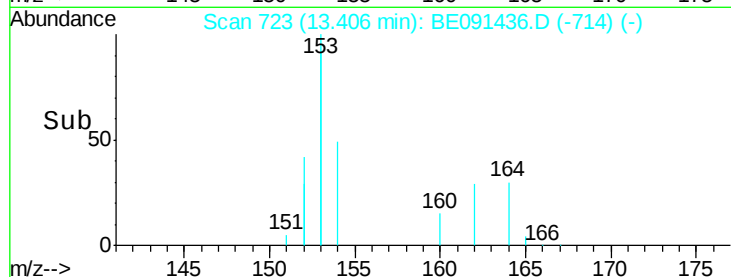
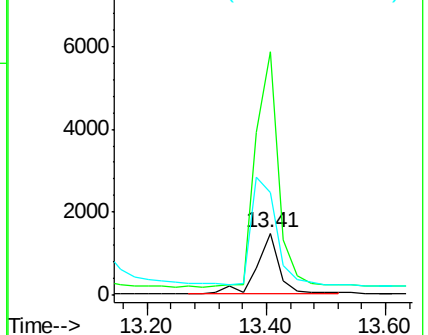
152 0.0 0.0 0.0



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: 0.12 ng

RT: 14.41 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

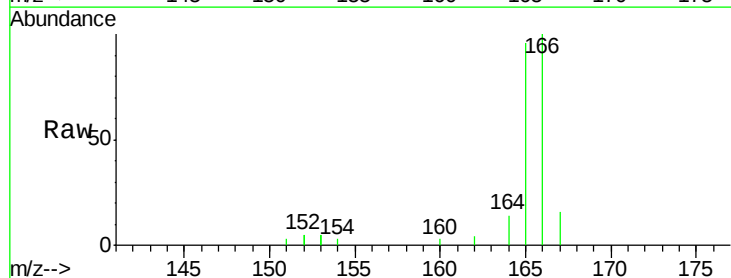
Tgt Ion:166 Resp: 4243

Ion Ratio Lower Upper

166 100

165 96.8 79.4 119.2

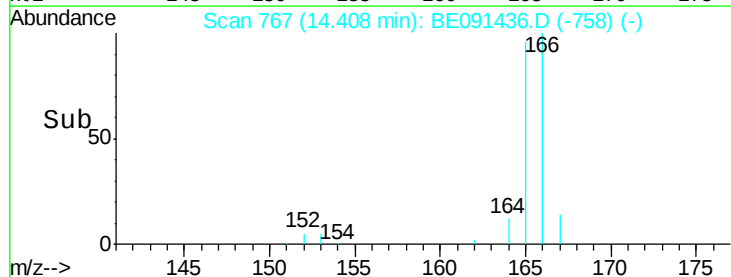
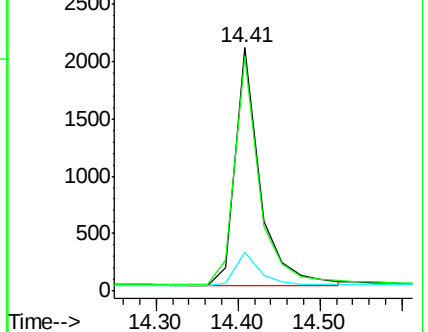
167 14.9 10.7 16.1

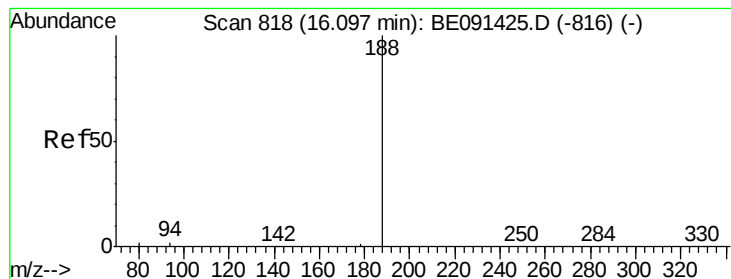


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

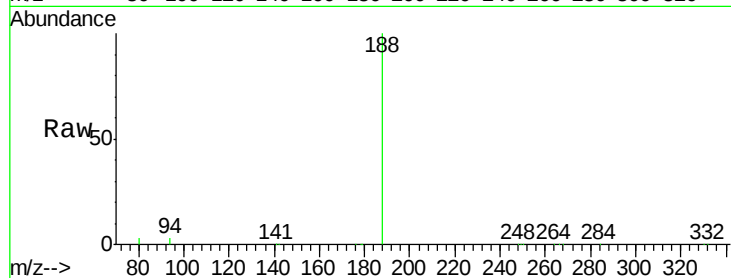
Tgt Ion:188 Resp: 171868

Ion Ratio Lower Upper

188 100

94 3.4 2.1 3.1#

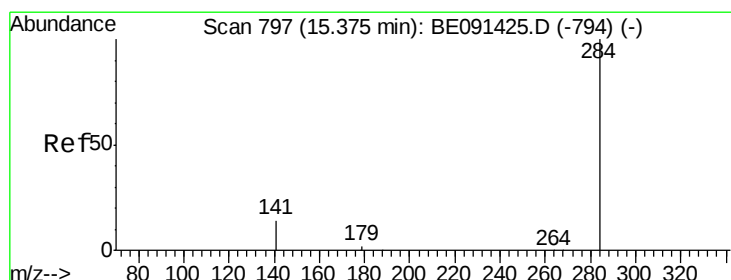
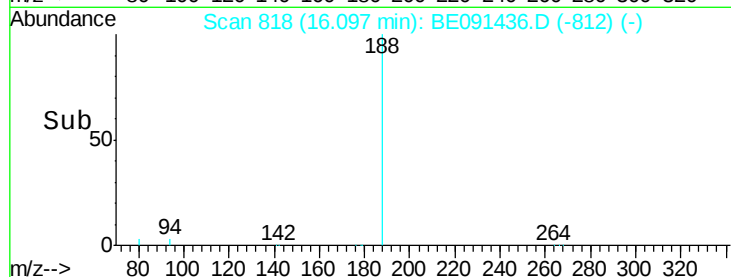
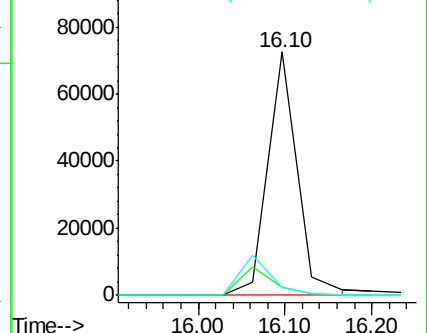
80 3.3 1.9 2.9#



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: BE091436.D

Acq: 3 Mar 2016 23:24

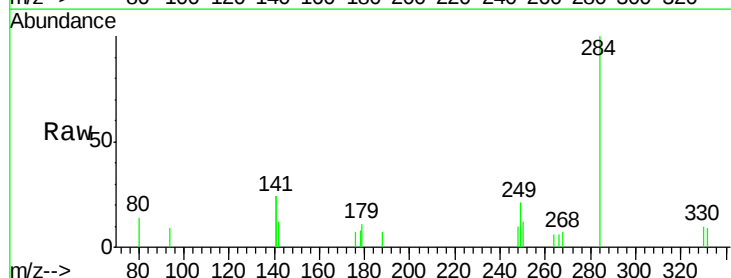
Tgt Ion:284 Resp: 1541

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

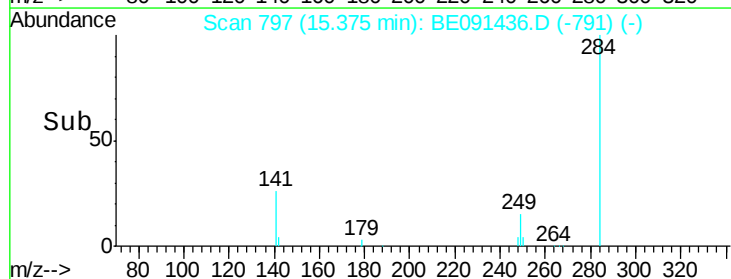
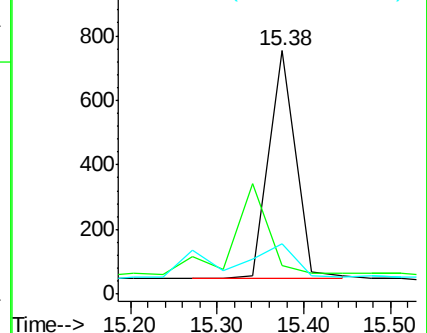
249 35.9 0.0 0.0#

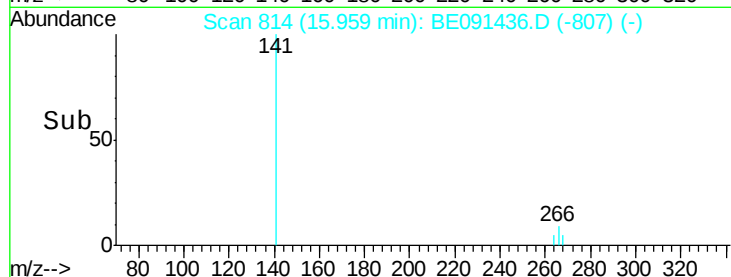
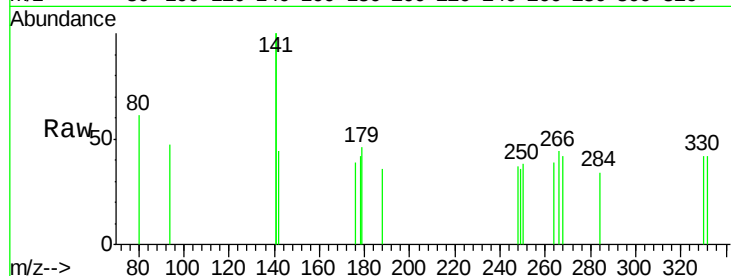
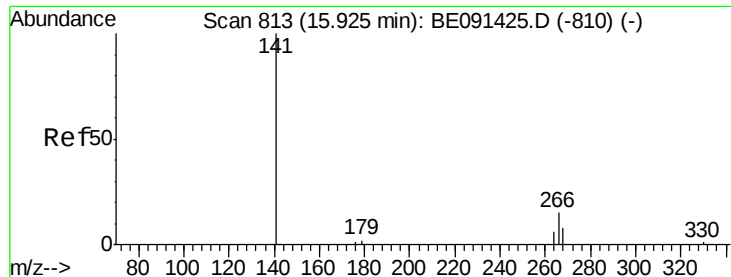


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

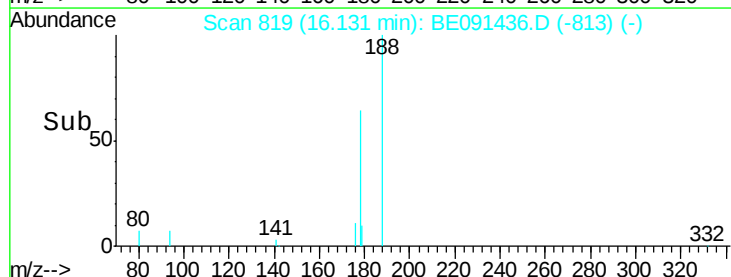
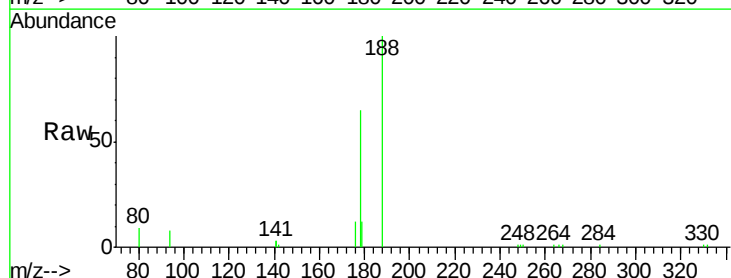
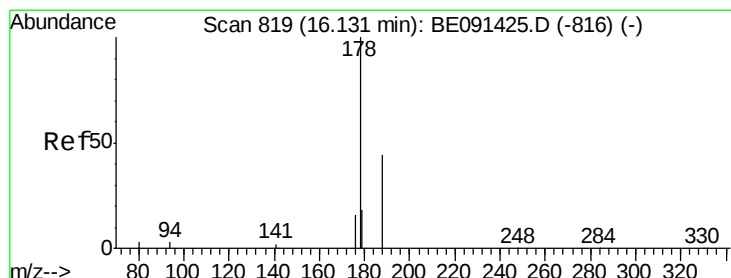
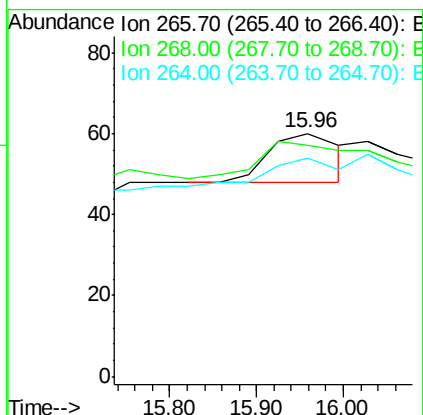




#15
Pentachlorophenol
Concen: Below Cal
RT: 15.96 min Scan# 814
Delta R.T. 0.03 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

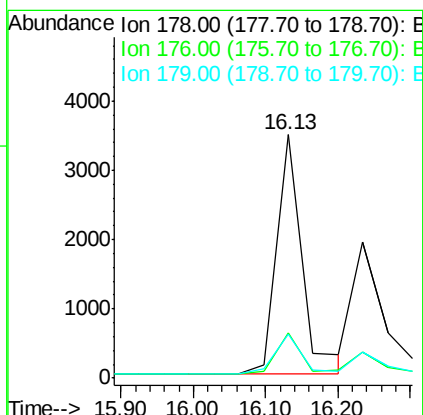
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

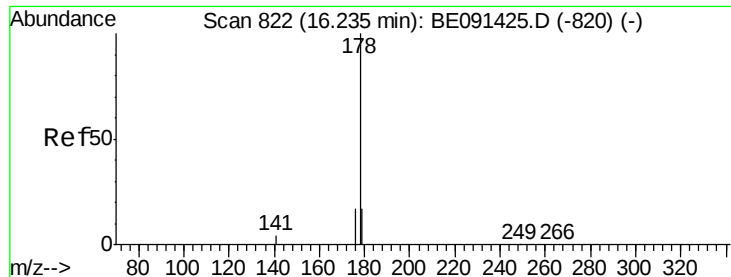
Tgt Ion: 266 Resp: 68
Ion Ratio Lower Upper
266 100
268 95.0 73.0 109.6
264 90.0 66.1 99.1



#16
Phenanthrene
Concen: 0.14 ng
RT: 16.13 min Scan# 819
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

Tgt Ion: 178 Resp: 8615
Ion Ratio Lower Upper
178 100
176 16.6 13.8 20.8
179 17.5 14.2 21.4

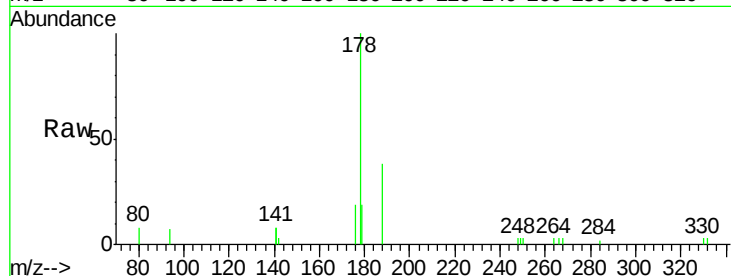




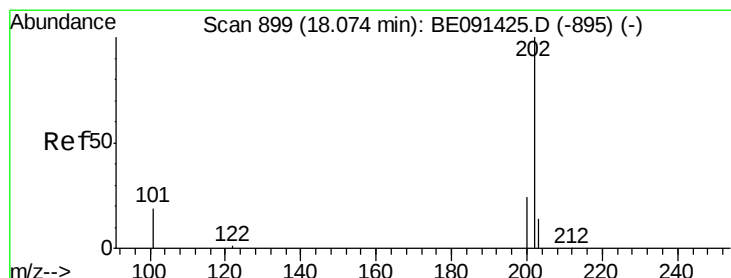
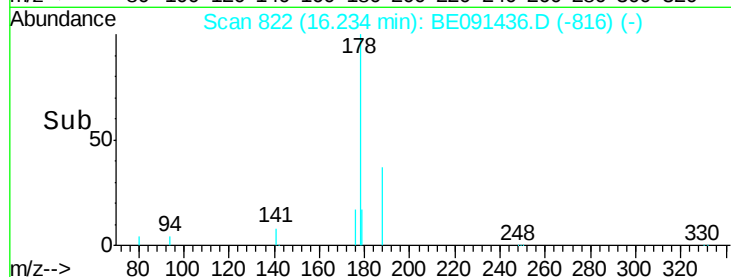
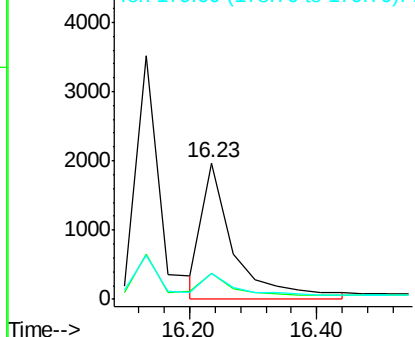
#17
 Anthracene
 Concen: 0.24 ng m
 RT: 16.23 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BE091436.D
 Acq: 3 Mar 2016 23:24

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Tgt Ion:178 Resp: 7080
 Ion Ratio Lower Upper
 178 100
 176 10.3 24.4 36.6#
 179 10.3 14.8 22.2#

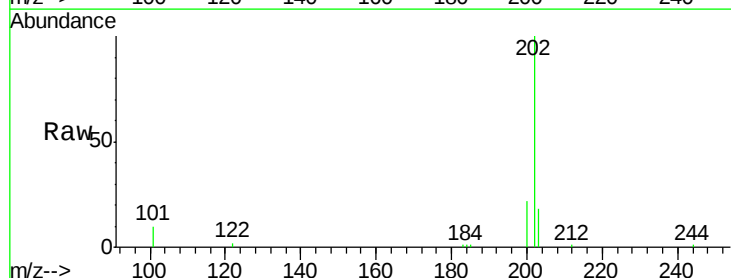


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

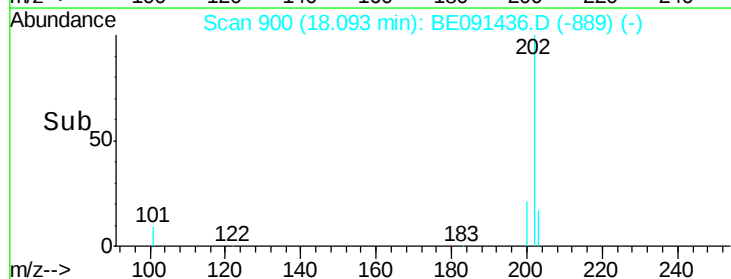
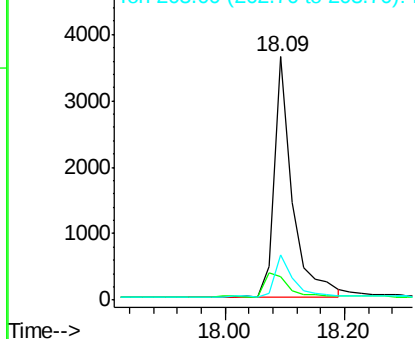


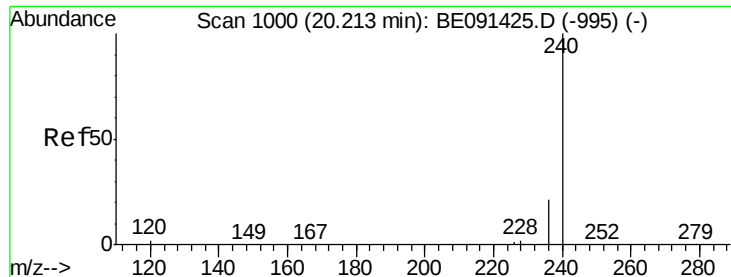
#18
 Fluoranthene
 Concen: 0.19 ng
 RT: 18.09 min Scan# 900
 Delta R.T. 0.02 min
 Lab File: BE091436.D
 Acq: 3 Mar 2016 23:24

Tgt Ion:202 Resp: 7582
 Ion Ratio Lower Upper
 202 100
 101 13.5 11.0 16.6
 203 17.7 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: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

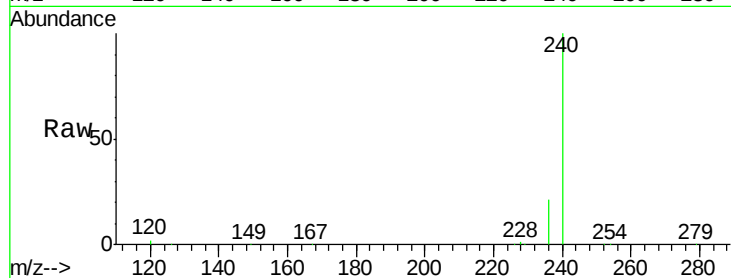
Tgt Ion:240 Resp: 237238

Ion Ratio Lower Upper

240 100

120 2.2 1.4 2.0#

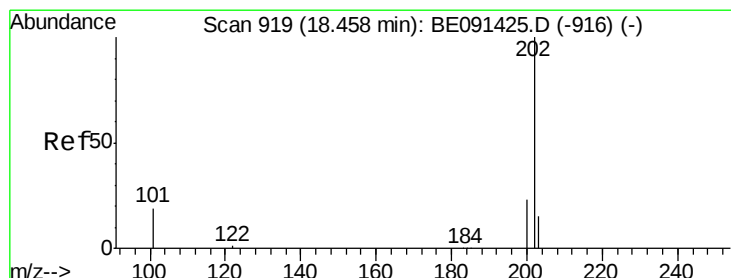
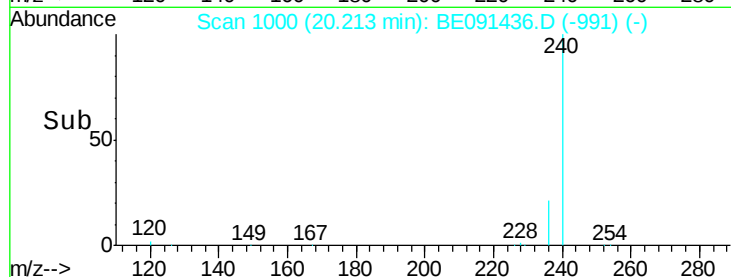
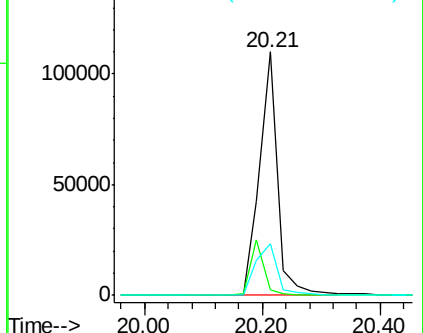
236 21.3 16.7 25.1



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: 0.12 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

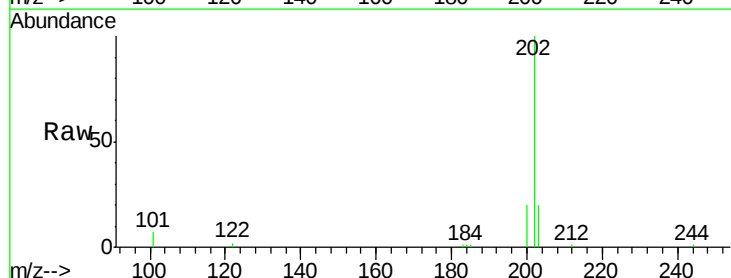
Tgt Ion:202 Resp: 8049

Ion Ratio Lower Upper

202 100

200 21.3 16.5 24.7

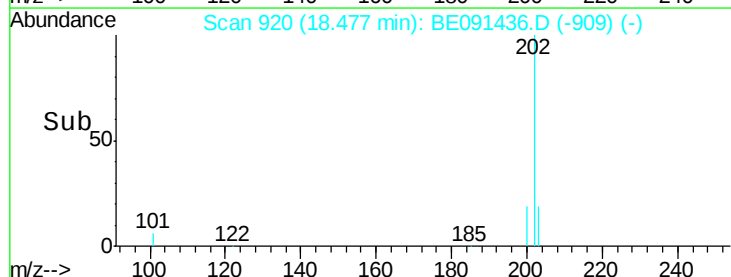
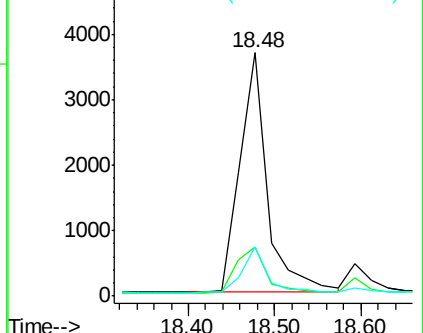
203 18.0 13.8 20.6

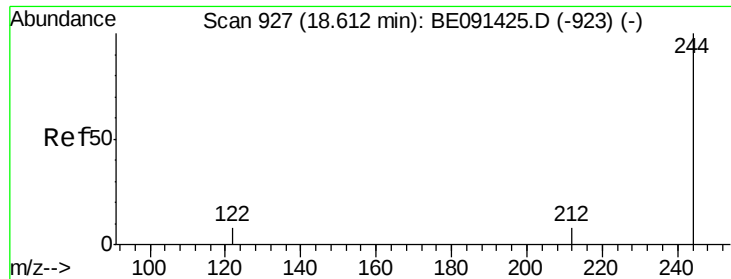


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

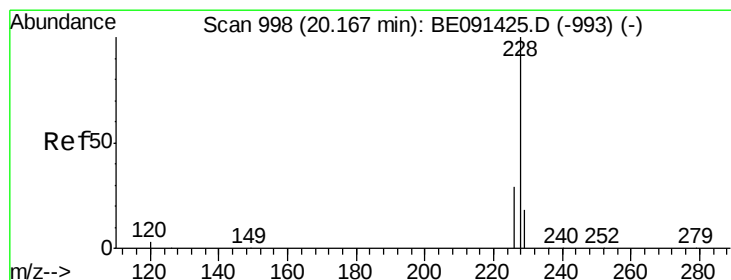
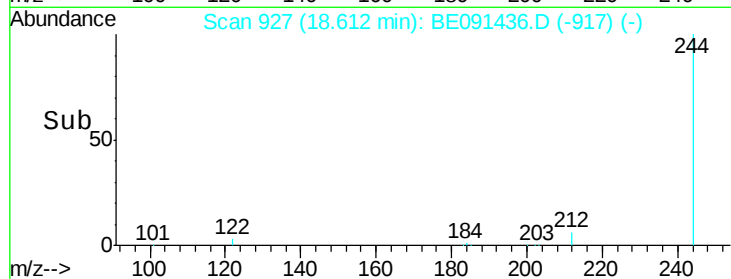
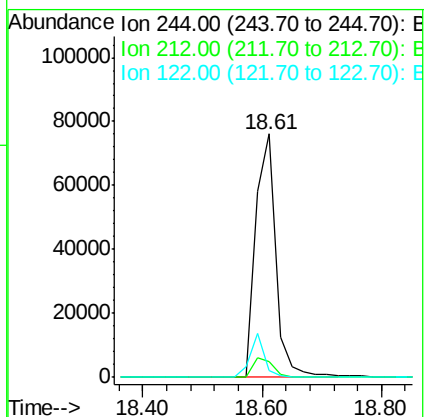
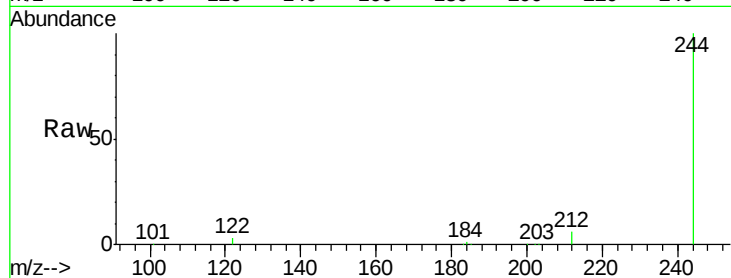




#21
 Terphenyl-d14
 Concen: 4.92 ng
 RT: 18.61 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: BE091436.D
 Acq: 3 Mar 2016 23:24

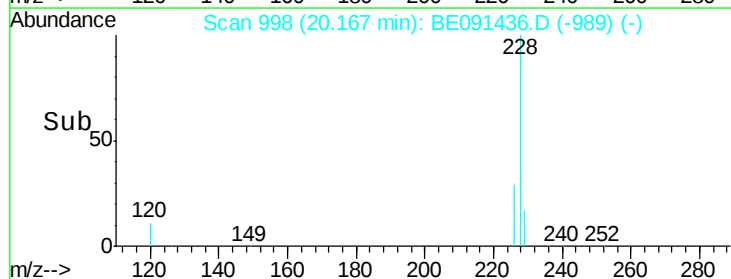
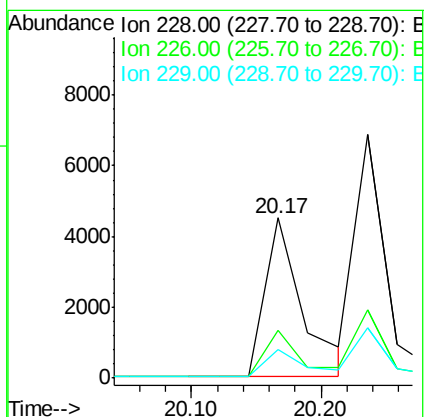
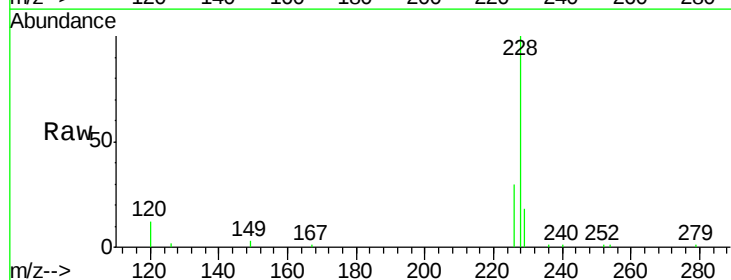
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

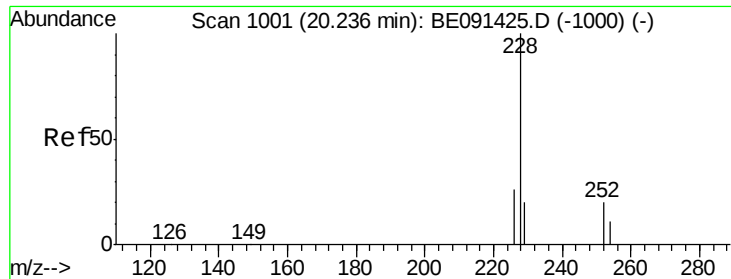
Tgt Ion:244 Resp: 177744
 Ion Ratio Lower Upper
 244 100
 212 6.5 7.0 10.6#
 122 2.7 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.11 ng
 RT: 20.17 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: BE091436.D
 Acq: 3 Mar 2016 23:24

Tgt Ion:228 Resp: 9082
 Ion Ratio Lower Upper
 228 100
 226 29.8 23.1 34.7
 229 18.2 14.5 21.7

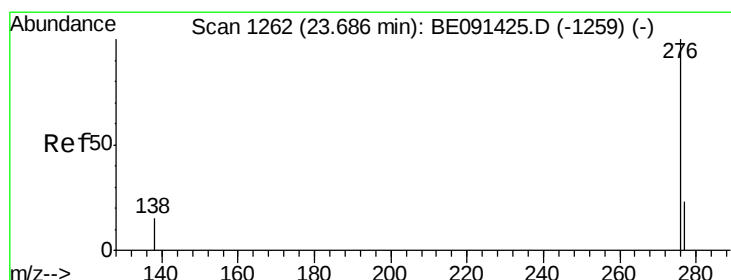
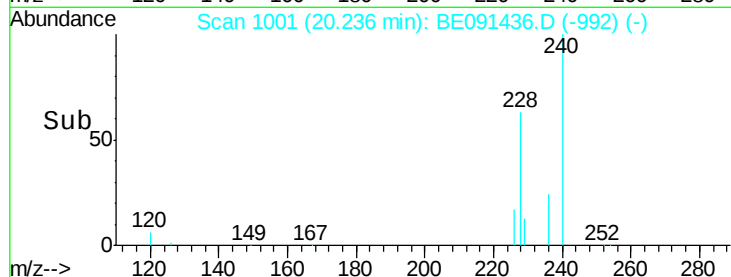
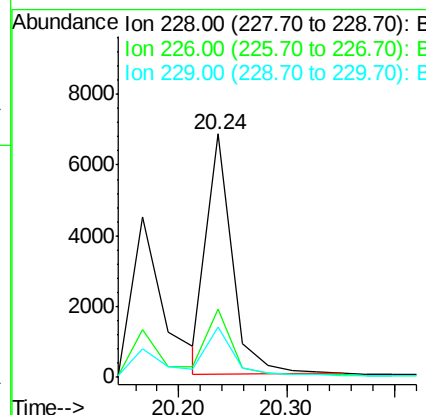
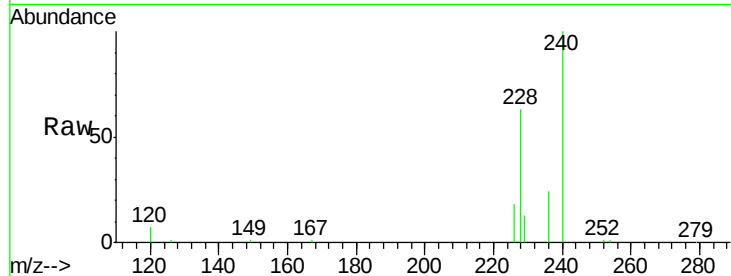




#23
Chrysene
Concen: 0.13 ng
RT: 20.24 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

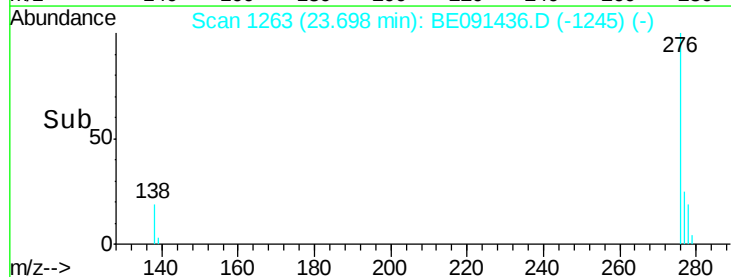
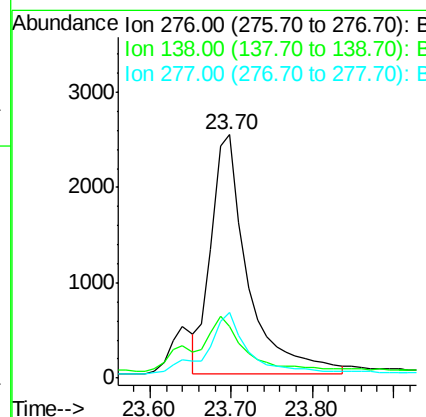
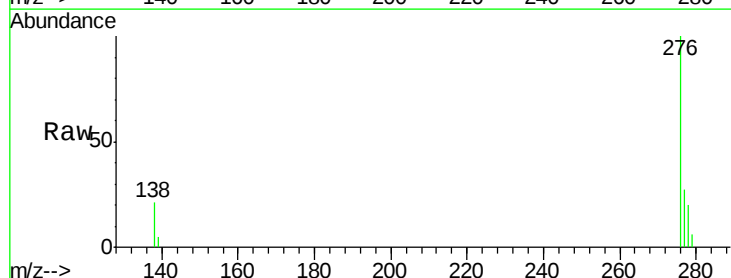
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

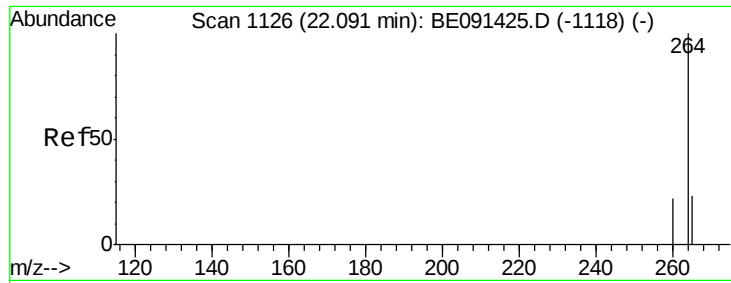
Tgt Ion: 228 Resp: 11110
Ion Ratio Lower Upper
228 100
226 27.8 22.0 33.0
229 20.9 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.11 ng m
RT: 23.70 min Scan# 1263
Delta R.T. 0.01 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

Tgt Ion: 276 Resp: 7925
Ion Ratio Lower Upper
276 100
138 29.9 16.1 24.1#
277 27.9 22.9 34.3

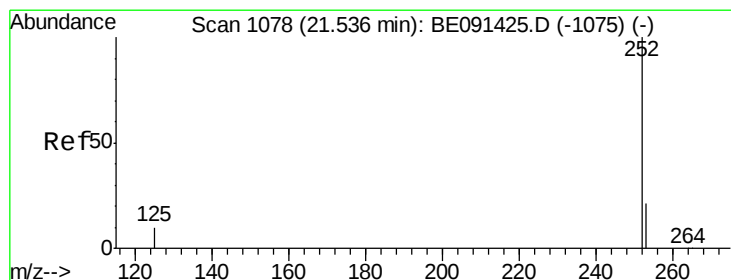
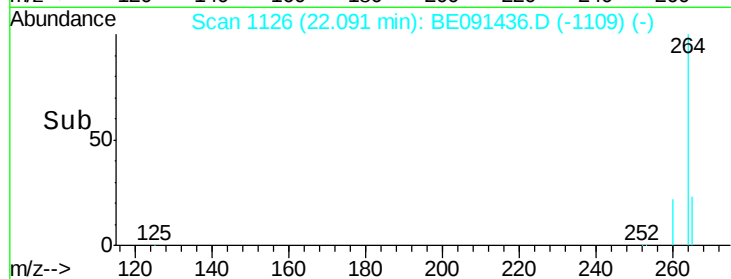
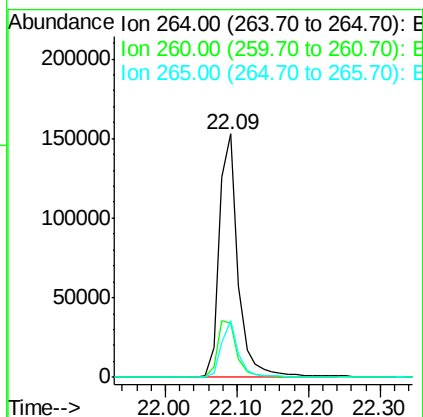
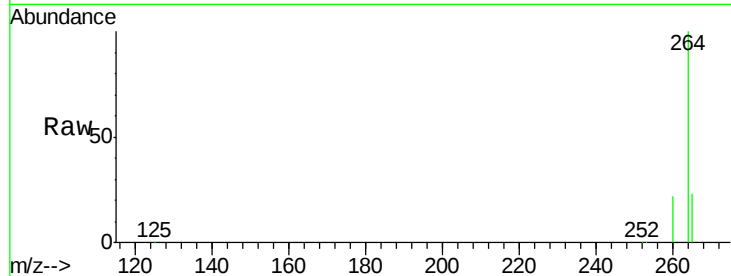




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

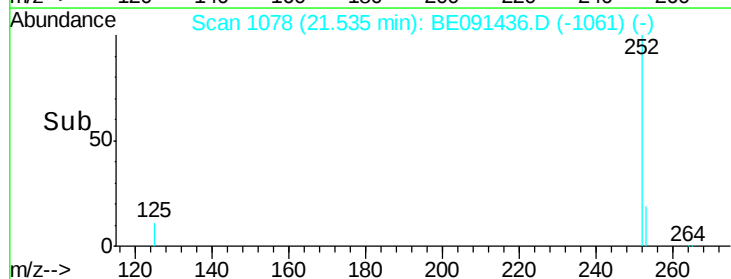
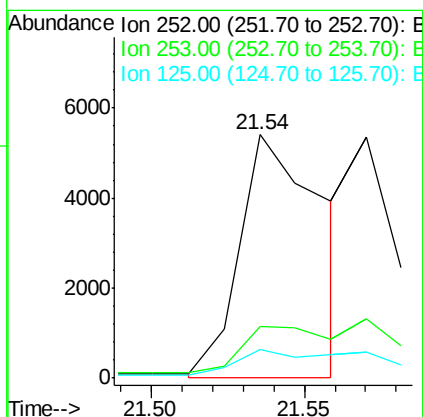
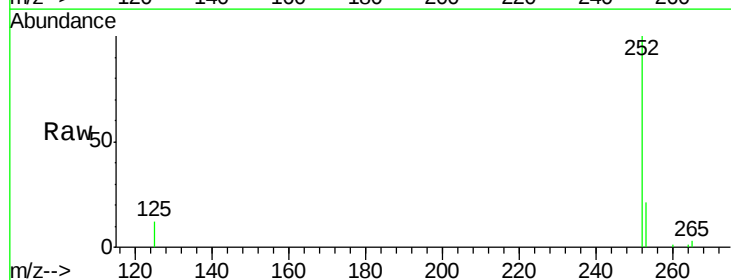
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

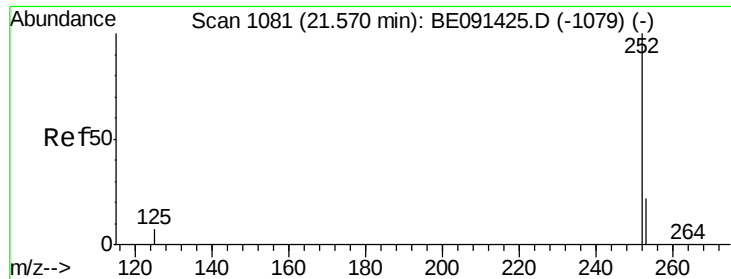
Tgt Ion:264 Resp: 277482
Ion Ratio Lower Upper
264 100
260 22.4 18.0 27.0
265 23.1 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 0.13 ng m
RT: 21.54 min Scan# 1078
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

Tgt Ion:252 Resp: 10250
Ion Ratio Lower Upper
252 100
253 21.1 17.0 25.4
125 11.8 8.3 12.5

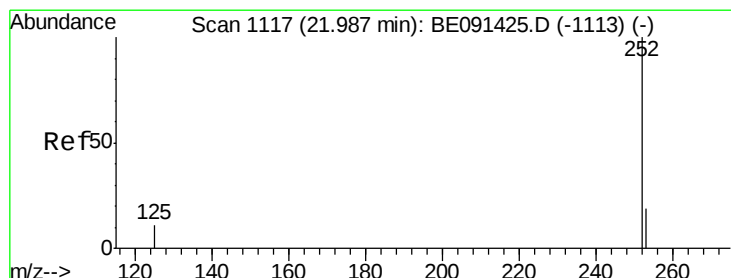
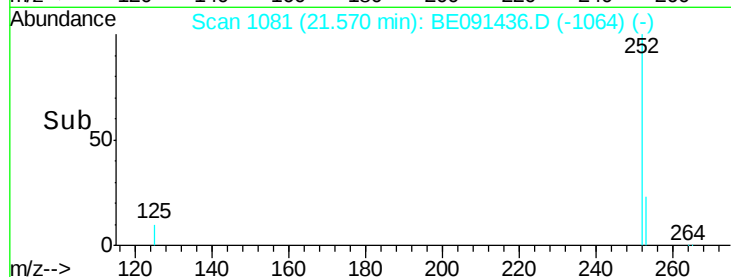
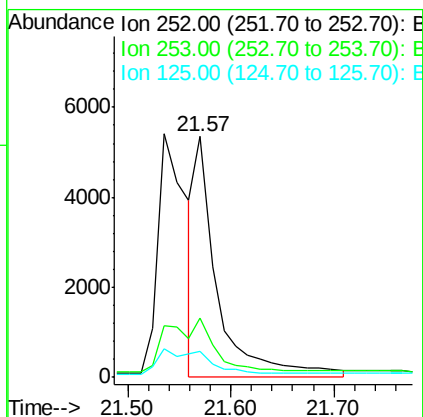
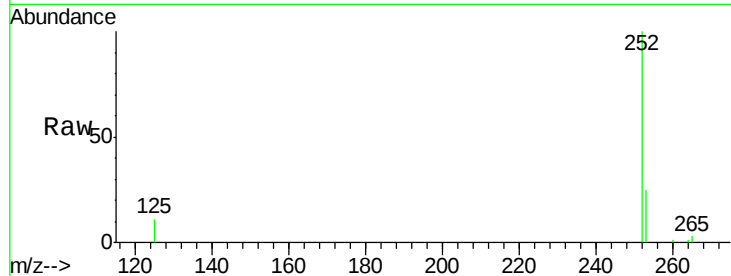




#27
Benzo(k)fluoranthene
Concen: 0.11 ng m
RT: 21.57 min Scan# 1081
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

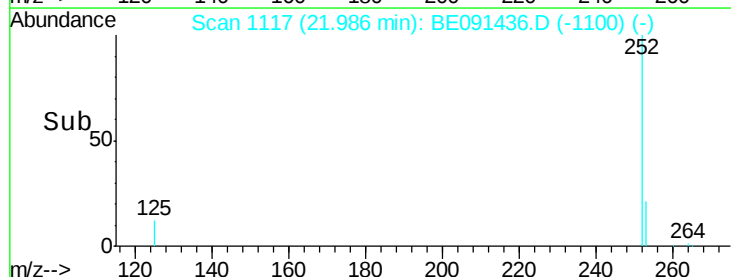
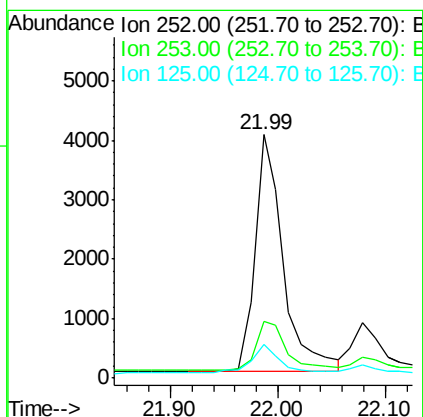
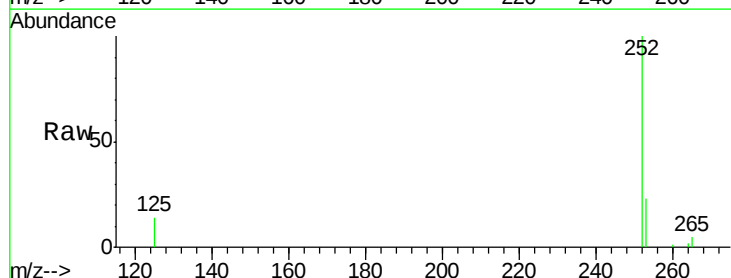
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

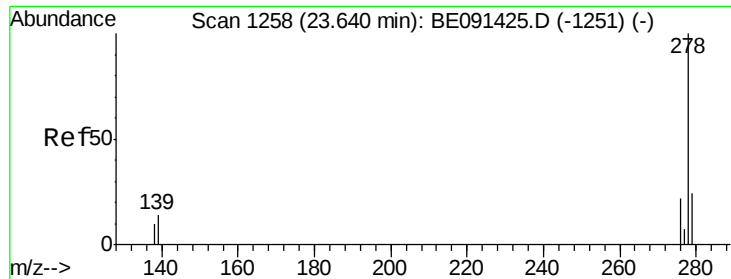
Tgt Ion: 252 Resp: 8311
Ion Ratio Lower Upper
252 100
253 24.7 19.5 29.3
125 10.7 7.3 10.9



#28
Benzo(a)pyrene
Concen: 0.11 ng
RT: 21.99 min Scan# 1117
Delta R.T. -0.00 min
Lab File: BE091436.D
Acq: 3 Mar 2016 23:24

Tgt Ion: 252 Resp: 7294
Ion Ratio Lower Upper
252 100
253 23.5 16.2 24.4
125 13.9 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 0.11 ng

RT: 23.64 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

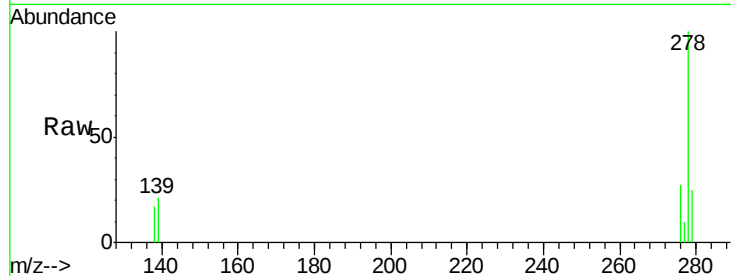
Tgt Ion: 278 Resp: 6866

Ion Ratio Lower Upper

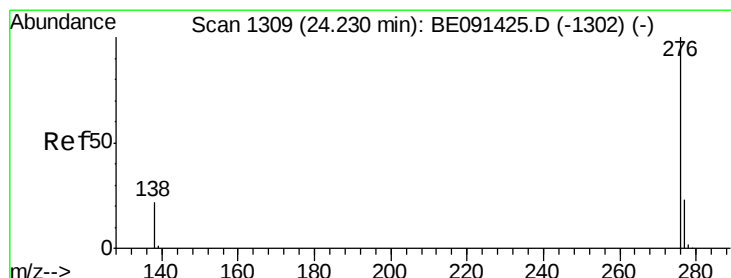
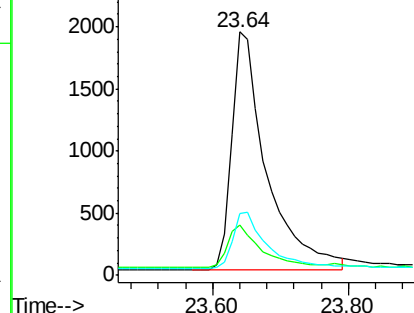
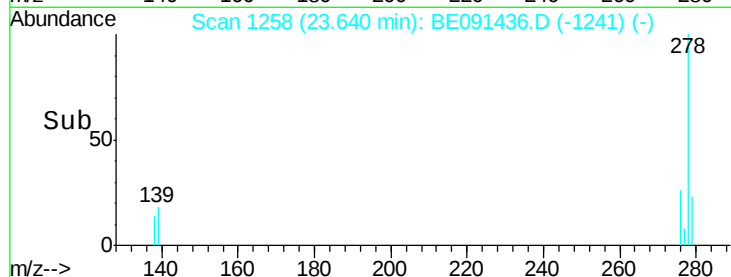
278 100

139 20.7 12.1 18.1#

279 25.2 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: 0.12 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091436.D

Acq: 3 Mar 2016 23:24

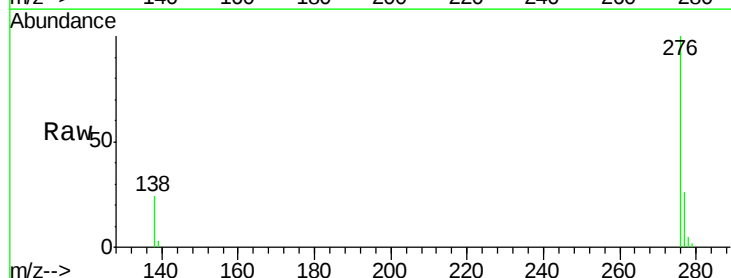
Tgt Ion: 276 Resp: 8128

Ion Ratio Lower Upper

276 100

277 25.5 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

