

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091447.D
 Acq On : 4 Mar 2016 6:10
 Operator : UM/IZ
 Sample : MDL-05-S
 Misc : 0.16PPM
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 04 07:54:29 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

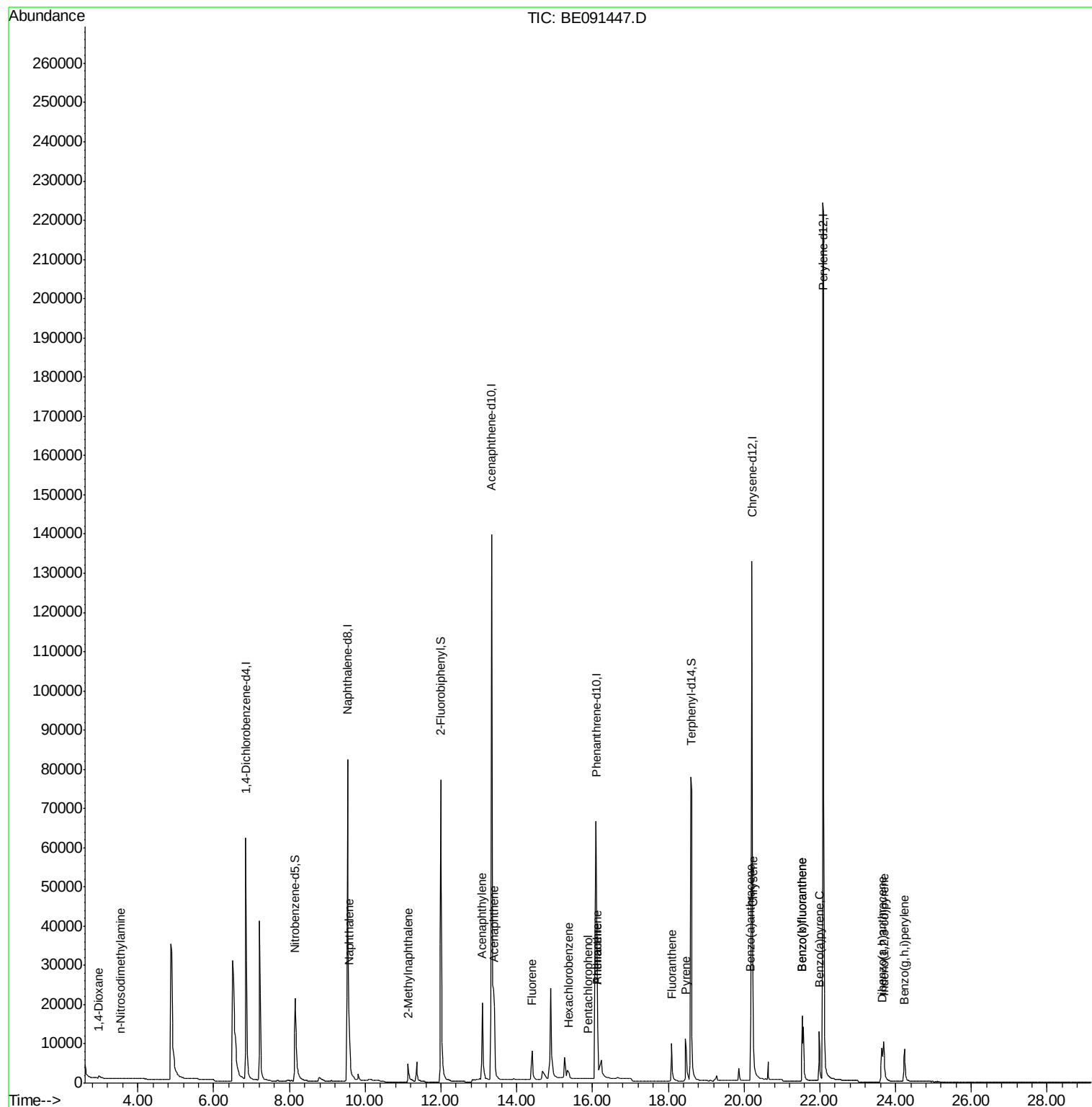
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	35561	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	159158	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	95151	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	153017	5.00	ng	0.00
19) Chrysene-d12	20.21	240	242467	5.00	ng	0.00
25) Perylene-d12	22.08	264	294760	5.00	ng	-0.01
System Monitoring Compounds						
5) Nitrobenzene-d5	8.14	82	35654	3.63	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	101152	4.38	ng	-0.01
21) Terphenyl-d14	18.61	244	160416	4.35	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	825	0.26	ng	93
3) n-Nitrosodimethylamine	3.54	42	523	0.23	ng	# 80
6) Naphthalene	9.57	128	10097	0.27	ng	100
7) 2-Methylnaphthalene	11.14	142	5670	0.26	ng	92
10) Acenaphthylene	13.09	152	34655	0.22	ng	99
11) Acenaphthene	13.41	154	6971	0.24	ng	# 100
12) Fluorene	14.41	166	8221	0.22	ng	99
14) Hexachlorobenzene	15.38	284	2471	0.27	ng	# 100
15) Pentachlorophenol	15.89	266	262	0.52	ng	93
16) Phenanthrene	16.13	178	14515	0.27	ng	99
17) Anthracene	16.13	178	14302	0.30	ng	93
18) Fluoranthene	18.09	202	15760	0.27	ng	99
20) Pyrene	18.46	202	16856	0.24	ng	99
22) Benzo(a)anthracene	20.17	228	19947	0.24	ng	98
23) Chrysene	20.24	228	21443	0.24	ng	99
24) Indeno(1,2,3-cd)pyrene	23.69	276	19585	0.27	ng	94
26) Benzo(b)fluoranthene	21.54	252	37198	0.45	ng	99
27) Benzo(k)fluoranthene	21.54	252	37534	0.47	ng	95
28) Benzo(a)pyrene	21.99	252	15905	0.22	ng	98
29) Dibenzo(a,h)anthracene	23.64	278	15053	0.22	ng	98
30) Benzo(g,h,i)perylene	24.23	276	17400	0.24	ng	98

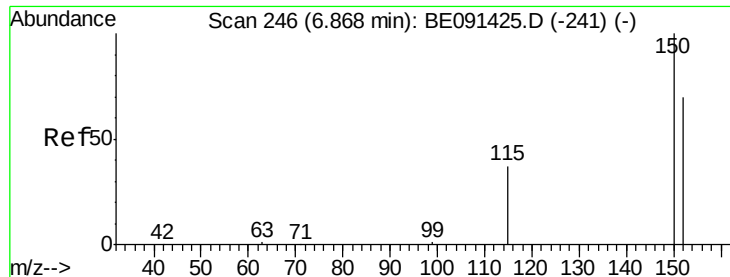
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

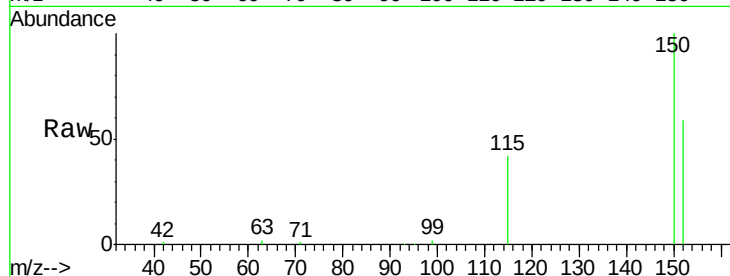
Tgt Ion: 152 Resp: 35561

Ion Ratio Lower Upper

152 100

150 170.1 115.0 172.4

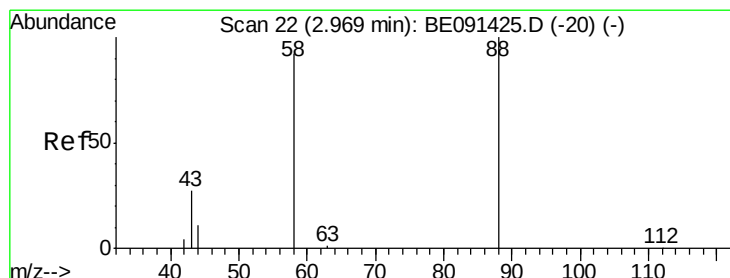
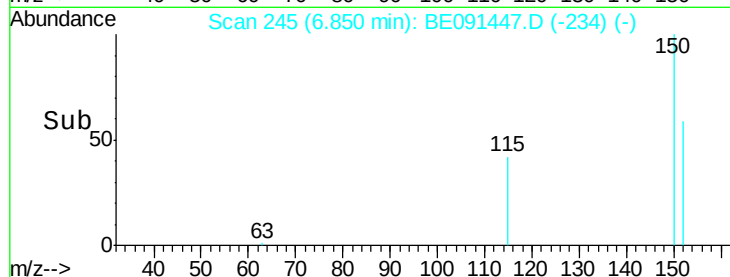
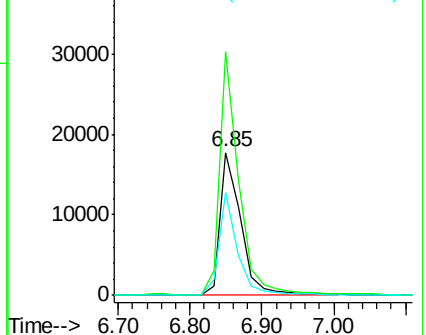
115 71.4 42.2 63.4#



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: 0.26 ng

RT: 2.97 min Scan# 22

Delta R.T. -0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

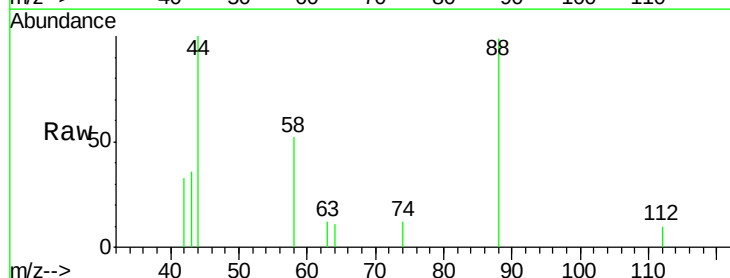
Tgt Ion: 88 Resp: 825

Ion Ratio Lower Upper

88 100

58 112.4 97.9 146.9

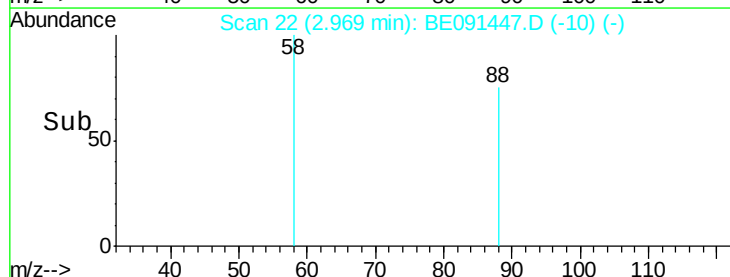
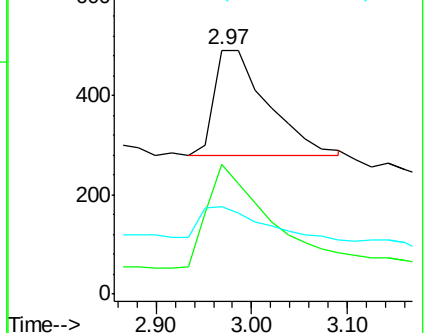
43 36.5 29.0 43.4

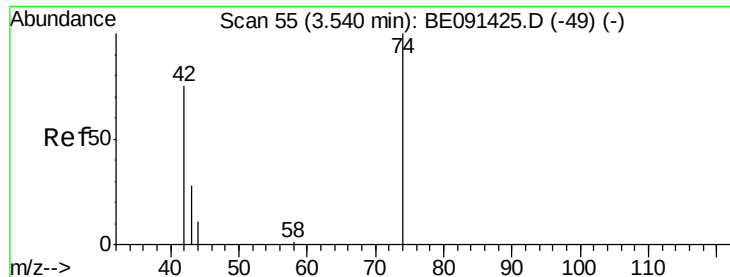


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.23 ng

RT: 3.54 min Scan# 55

Delta R.T. -0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

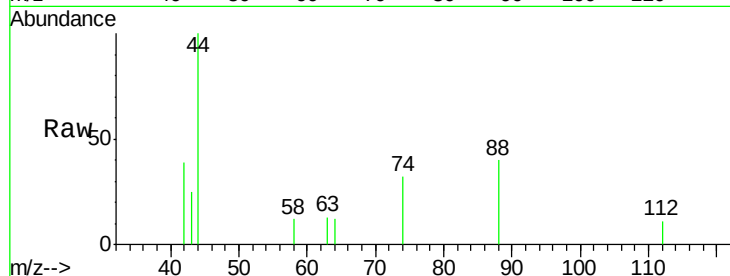
Tgt Ion: 42 Resp: 523

Ion Ratio Lower Upper

42 100

74 139.4 93.8 140.6

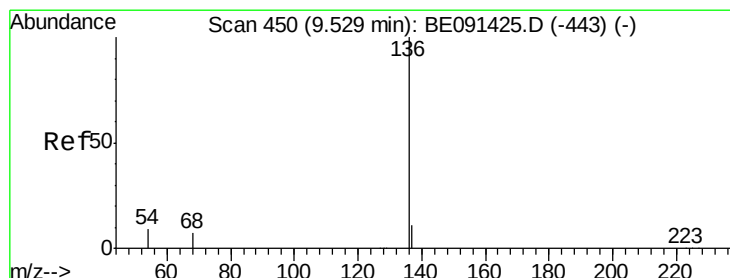
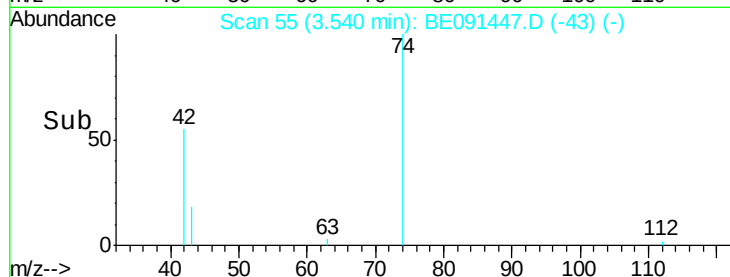
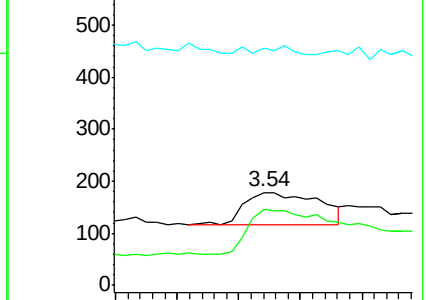
44 0.0 0.0 0.0



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: BE091447.D

Acq: 4 Mar 2016 6:10

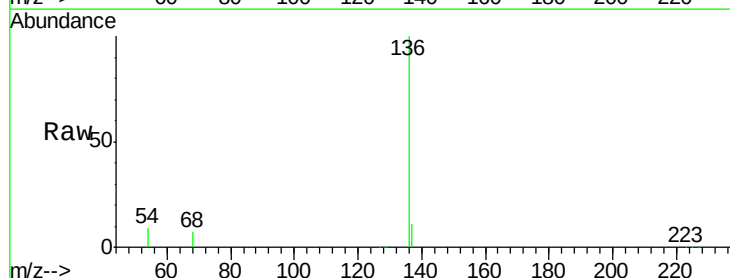
Tgt Ion: 136 Resp: 159158

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

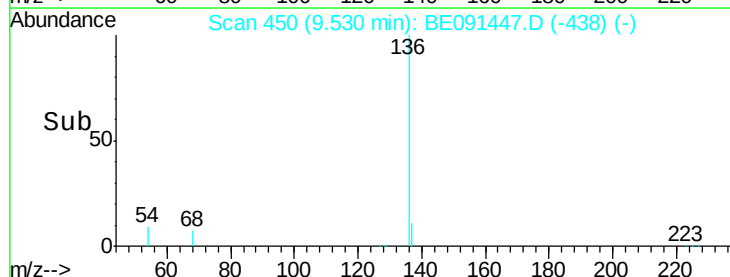
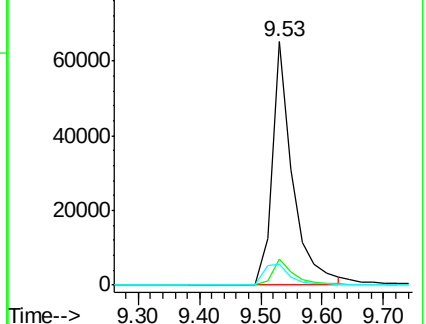
54 8.7 6.9 10.3

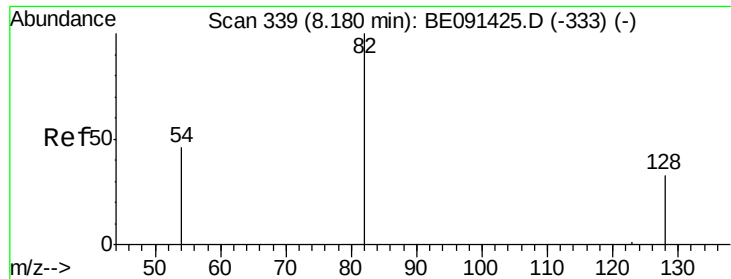


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.63 ng

RT: 8.14 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

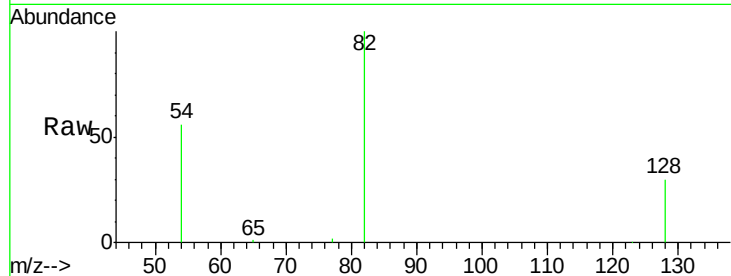
Tgt Ion: 82 Resp: 35654

Ion Ratio Lower Upper

82 100

128 30.1 30.0 45.0

54 55.9 41.5 62.3

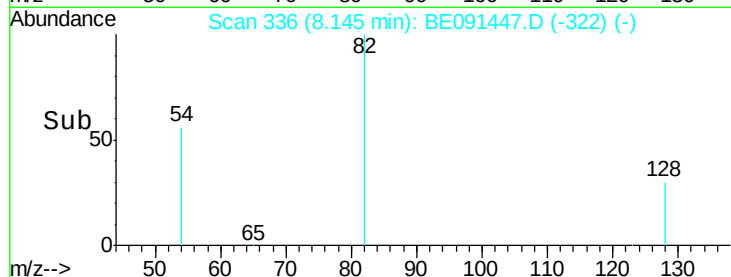


Abundance Ion 82.00 (81.70 to 82.70): BE091447.D (-336) (-)

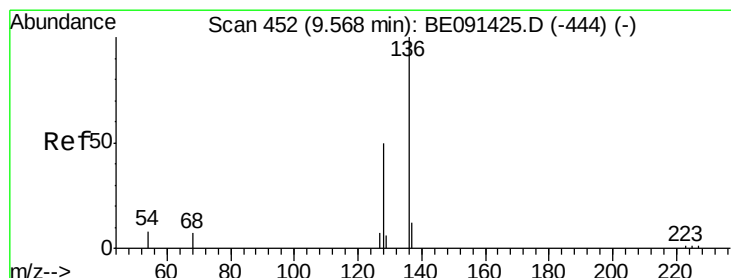
Ion 128.00 (127.70 to 128.70): BE091447.D (-336) (-)

Ion 54.00 (53.70 to 54.70): BE091447.D (-336) (-)

Time-->



Time-->



#6

Naphthalene

Concen: 0.27 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

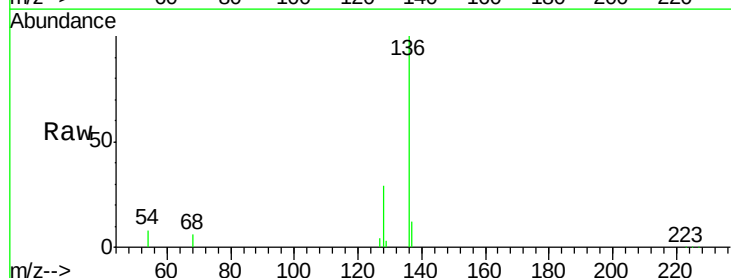
Tgt Ion: 128 Resp: 10097

Ion Ratio Lower Upper

128 100

129 12.0 9.5 14.3

127 14.5 11.4 17.0

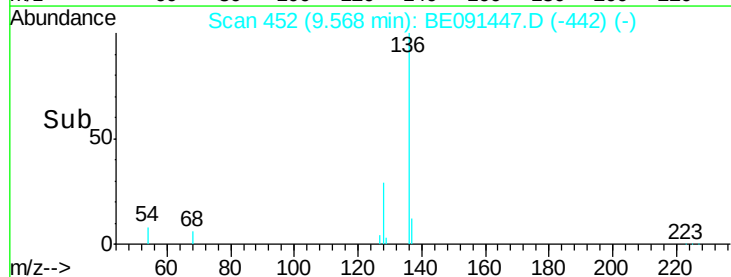


Abundance Ion 128.00 (127.70 to 128.70): BE091447.D (-442) (-)

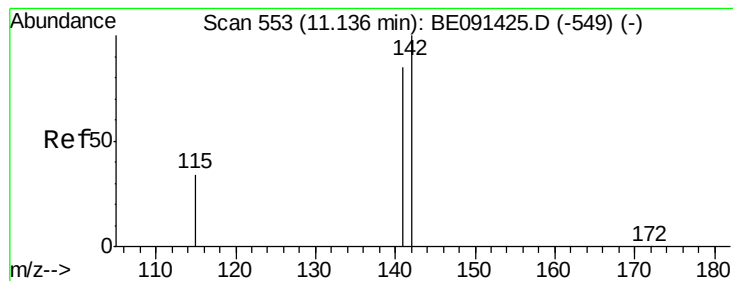
Ion 129.00 (128.70 to 129.70): BE091447.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091447.D (-442) (-)

Time-->



Time-->



#7

2-Methylnaphthalene

Concen: 0.26 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

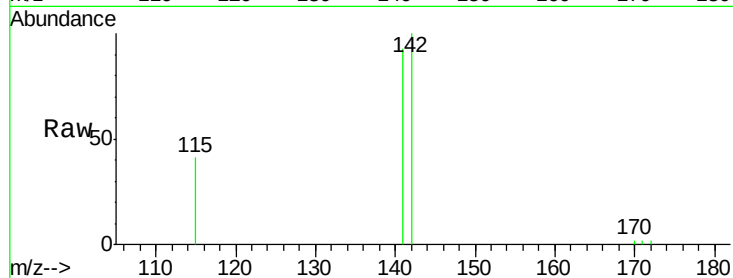
Tgt Ion:142 Resp: 5670

Ion Ratio Lower Upper

142 100

141 93.1 68.3 102.5

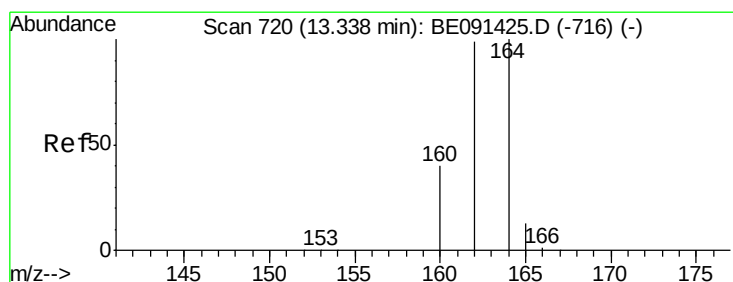
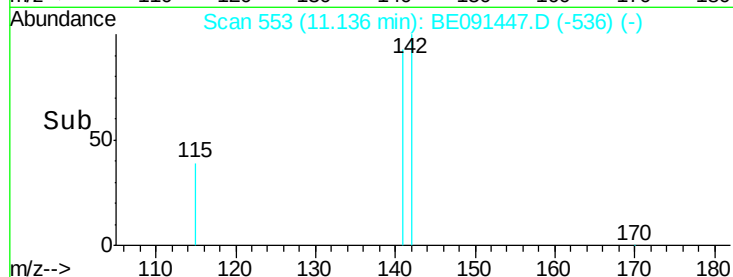
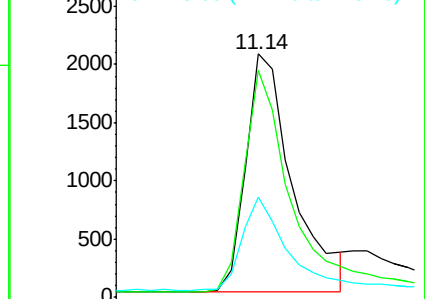
115 41.1 28.9 43.3



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: BE091447.D

Acq: 4 Mar 2016 6:10

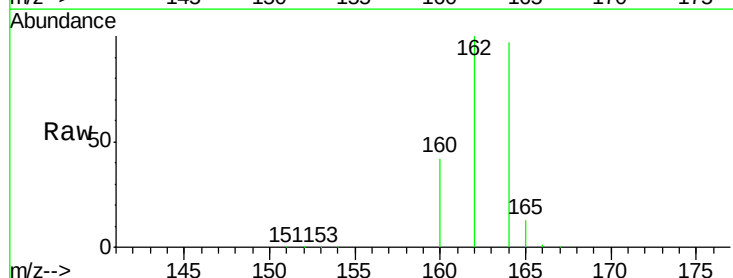
Tgt Ion:164 Resp: 95151

Ion Ratio Lower Upper

164 100

162 102.7 79.1 118.7

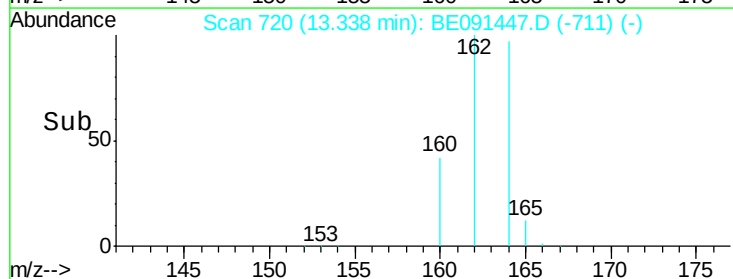
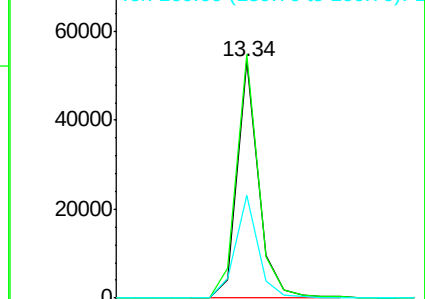
160 43.3 32.4 48.6

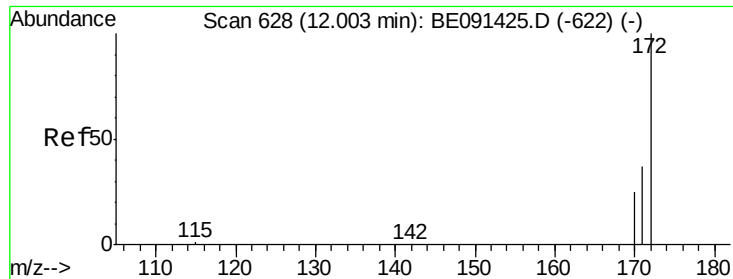


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.38 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091447.D

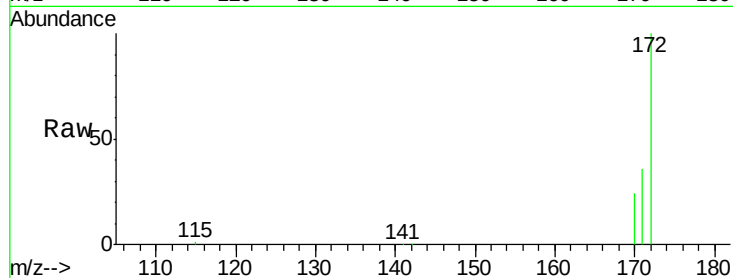
Acq: 4 Mar 2016 6:10

Instrument :

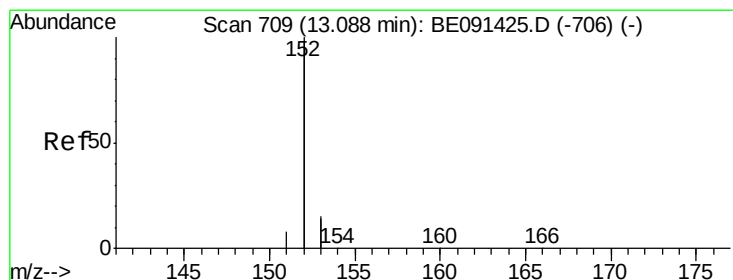
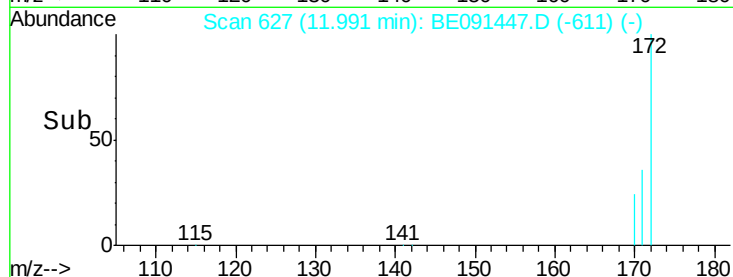
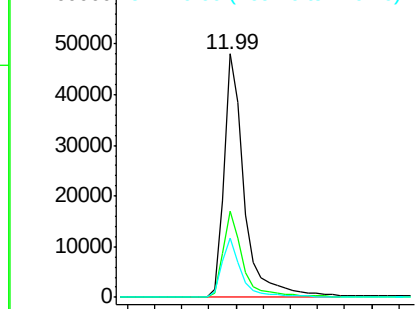
BNA_E

ClientSampleId :

Tgt Ion:	172	Resp:	101152
Ion	Ratio	Lower	Upper
172	100		
171	35.6	30.2	45.4
170	24.3	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: 0.22 ng

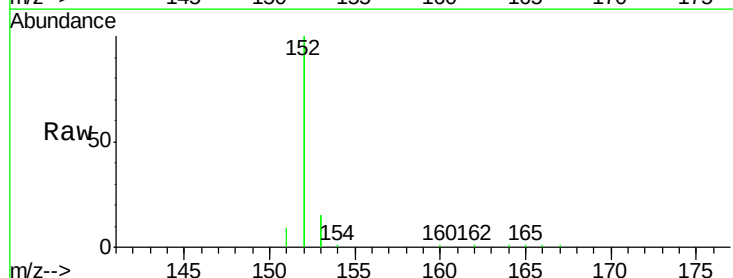
RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

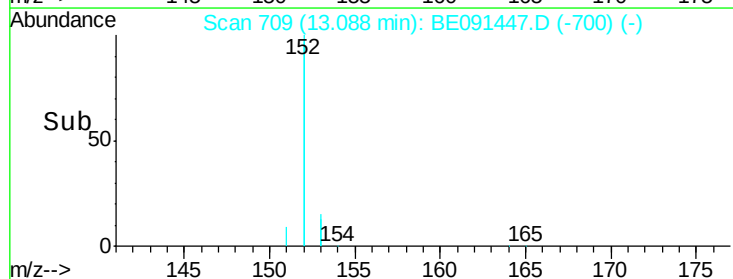
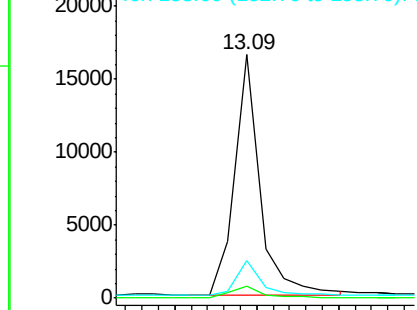
Lab File: BE091447.D

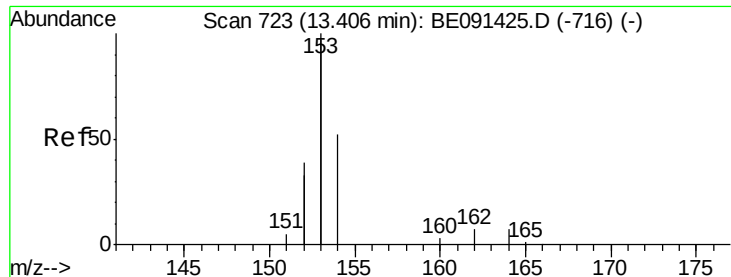
Acq: 4 Mar 2016 6:10

Tgt Ion:	152	Resp:	34655
Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.4	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: 0.24 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampled :

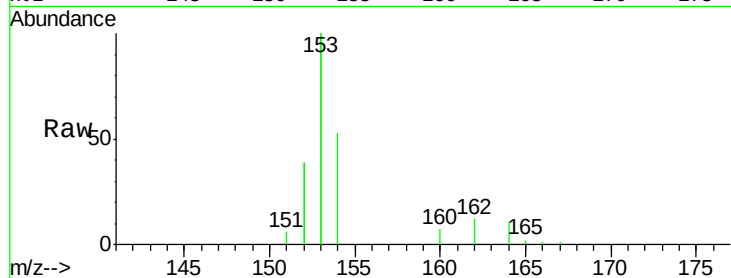
Tgt Ion:154 Resp: 6971

Ion Ratio Lower Upper

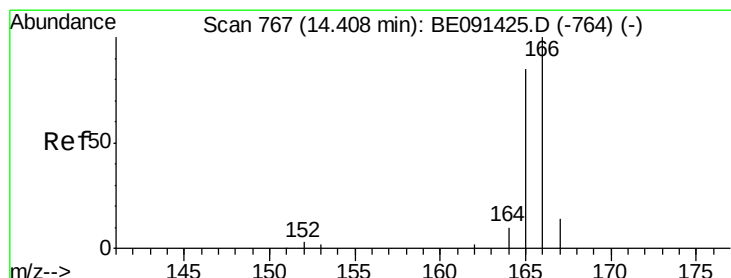
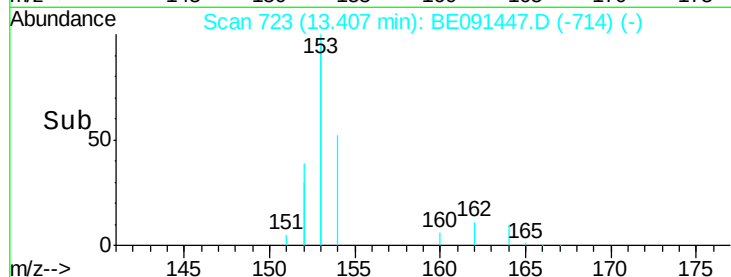
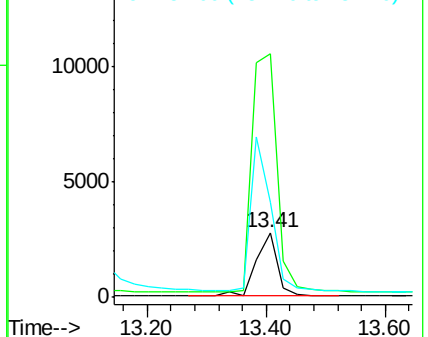
154 100

153 437.0 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: 0.22 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

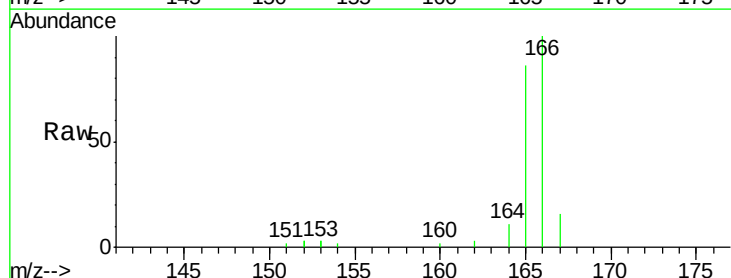
Tgt Ion:166 Resp: 8221

Ion Ratio Lower Upper

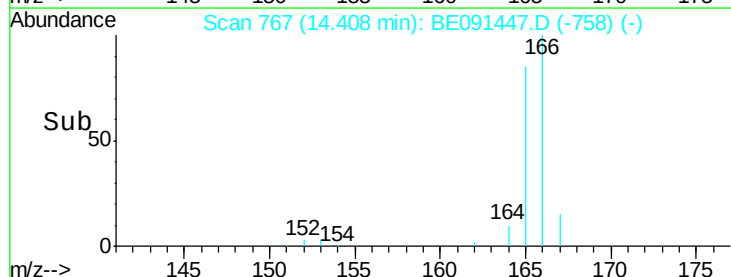
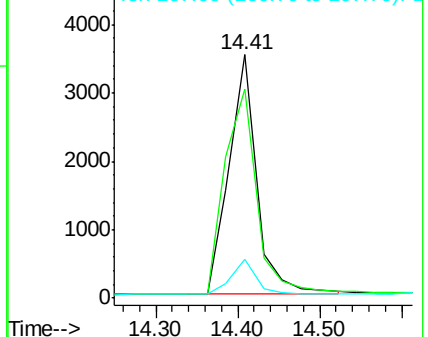
166 100

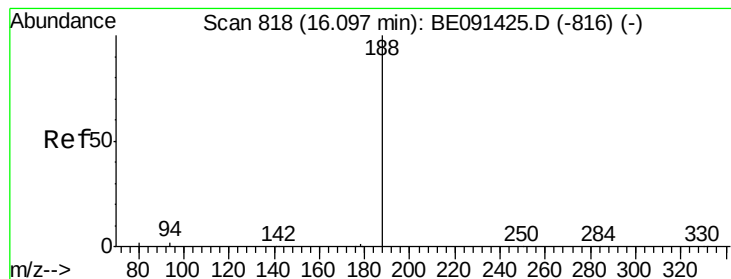
165 98.2 79.4 119.2

167 13.8 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: BE091447.D

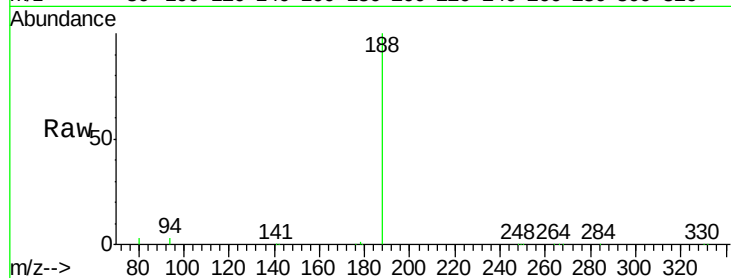
Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

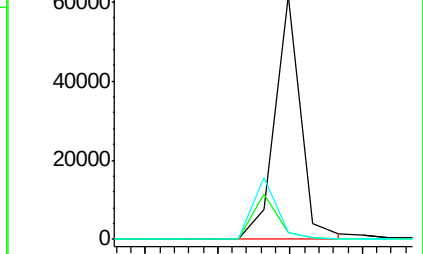
Tgt Ion:	188	Resp:	153017
Ion Ratio	Lower	Upper	
188	100		
94	2.8	2.1	3.1
80	2.7	1.9	2.9



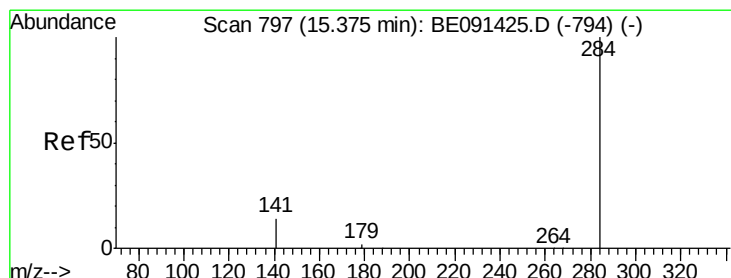
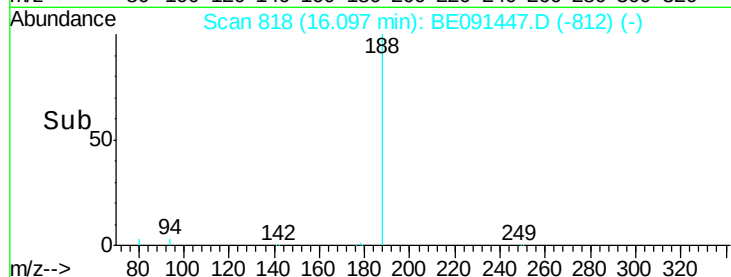
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->



#14

Hexachlorobenzene

Concen: 0.27 ng

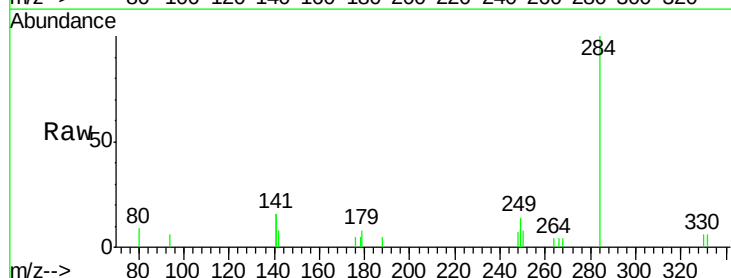
RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

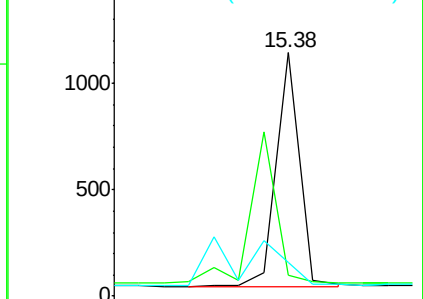
Tgt Ion:	284	Resp:	2471
Ion Ratio	Lower	Upper	
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0



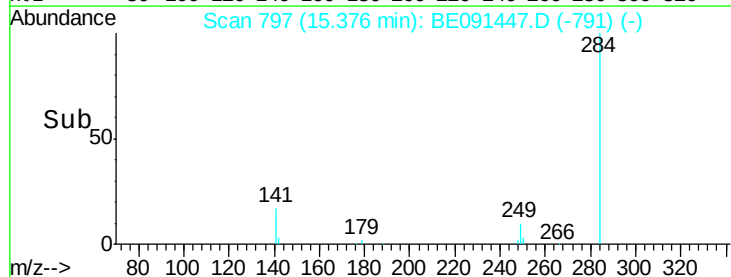
Abundance Ion 283.80 (283.50 to 284.50): E

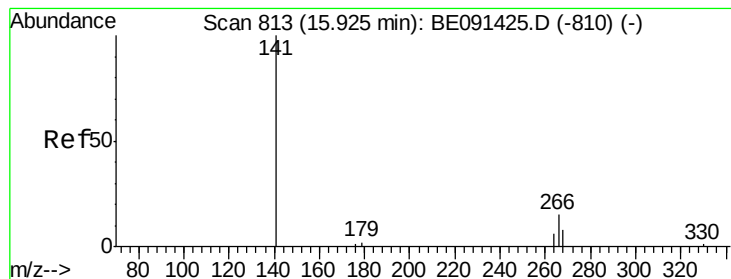
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->





#15

Pentachlorophenol

Concen: 0.52 ng

RT: 15.89 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

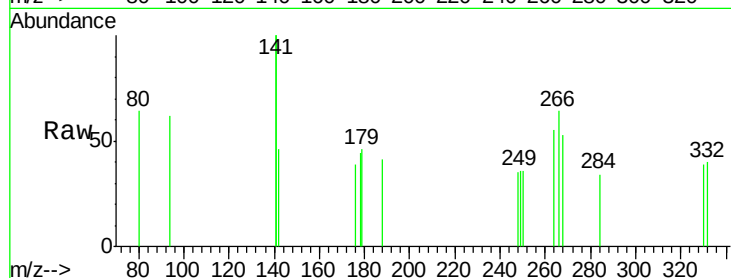
Tgt Ion: 266 Resp: 262

Ion Ratio Lower Upper

266 100

268 82.2 73.0 109.6

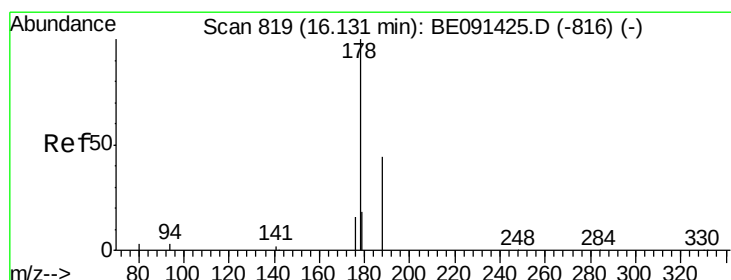
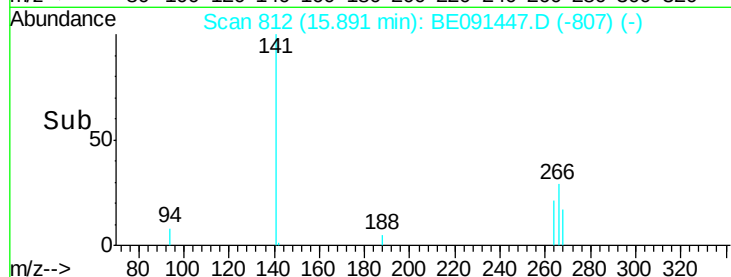
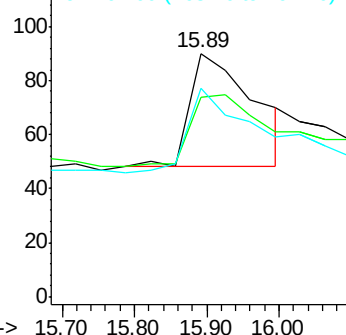
264 85.6 66.1 99.1



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: 0.27 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

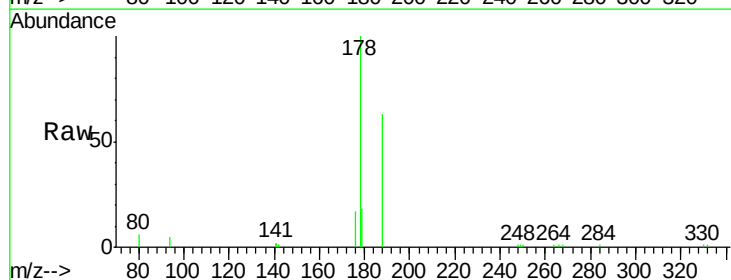
Tgt Ion: 178 Resp: 14515

Ion Ratio Lower Upper

178 100

176 17.1 13.8 20.8

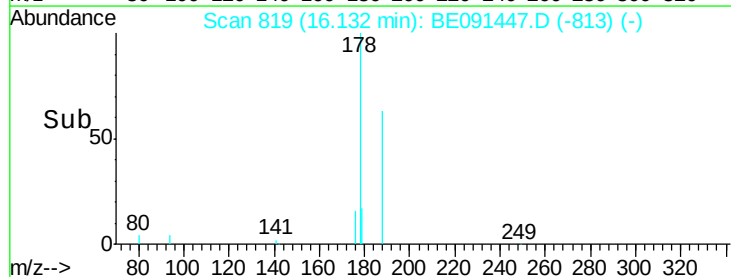
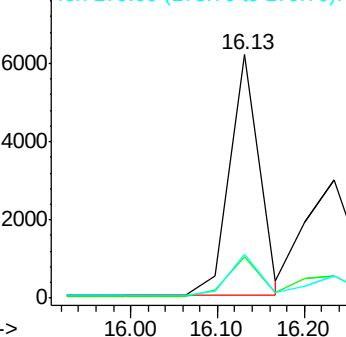
179 17.5 14.2 21.4

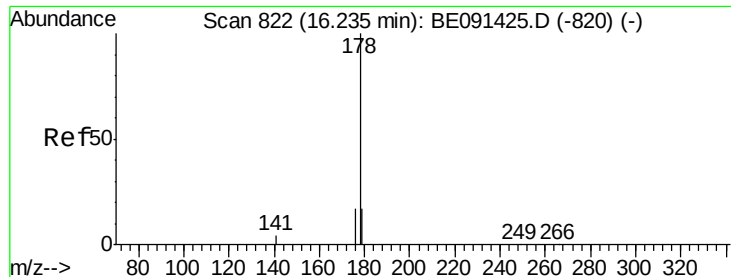


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

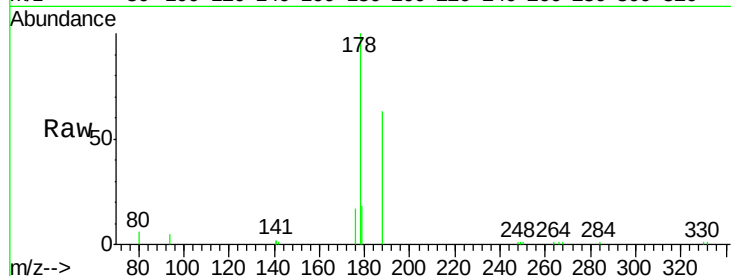




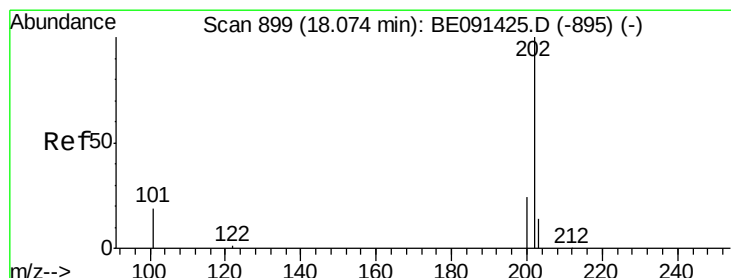
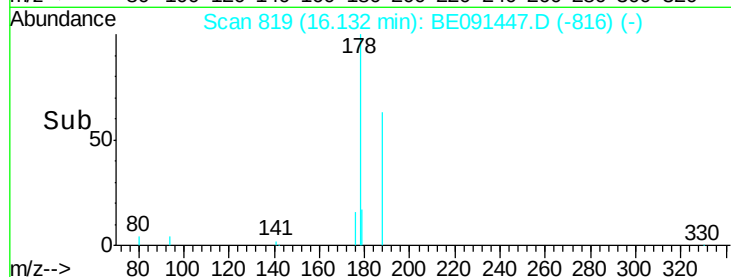
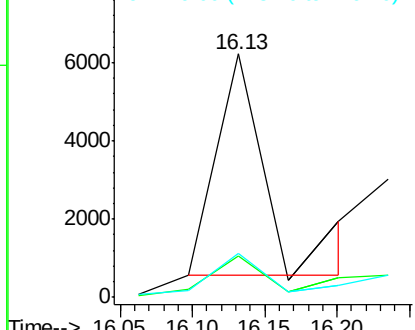
#17
 Anthracene
 Concen: 0.30 ng
 RT: 16.13 min Scan# 819
 Delta R.T. -0.10 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:178 Resp: 14302
 Ion Ratio Lower Upper
 178 100
 176 26.8 24.4 36.6
 179 15.4 14.8 22.2

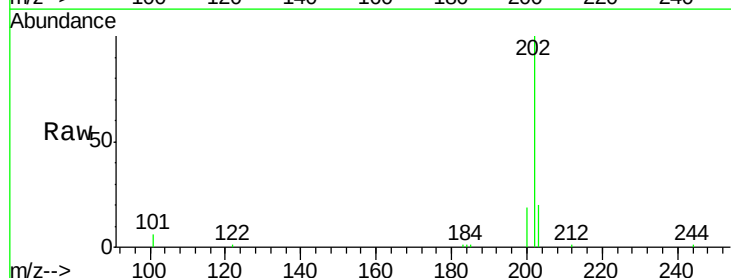


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

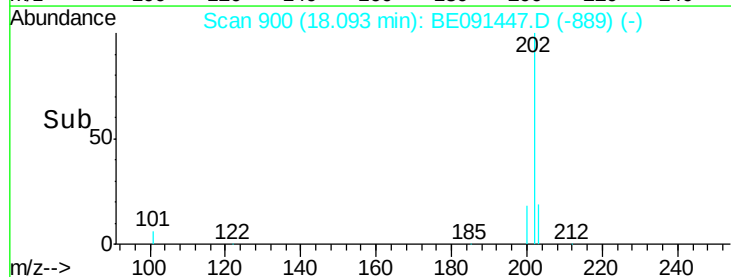
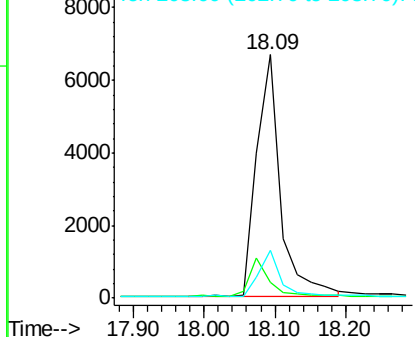


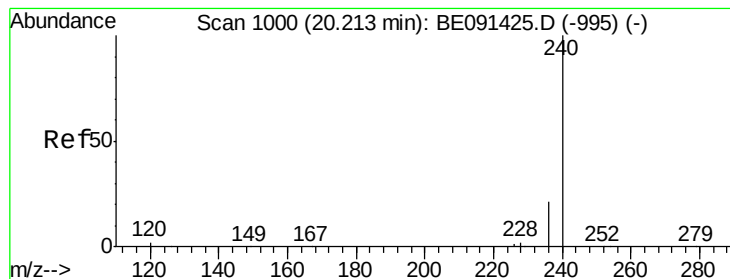
#18
 Fluoranthene
 Concen: 0.27 ng
 RT: 18.09 min Scan# 900
 Delta R.T. 0.02 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

Tgt Ion:202 Resp: 15760
 Ion Ratio Lower Upper
 202 100
 101 13.6 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: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :

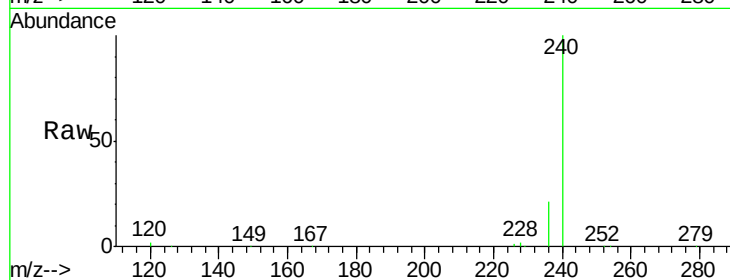
Tgt Ion:240 Resp: 242467

Ion Ratio Lower Upper

240 100

120 1.9 1.4 2.0

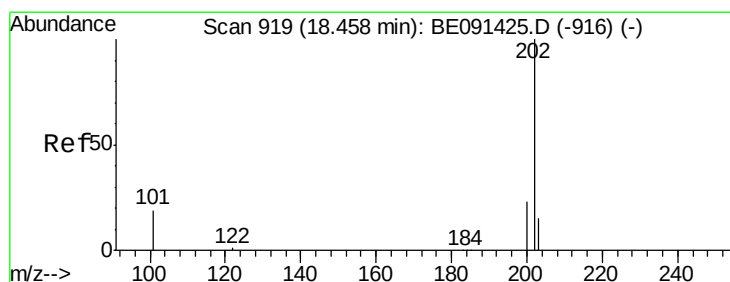
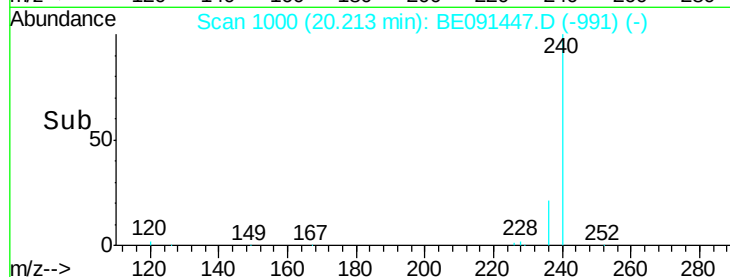
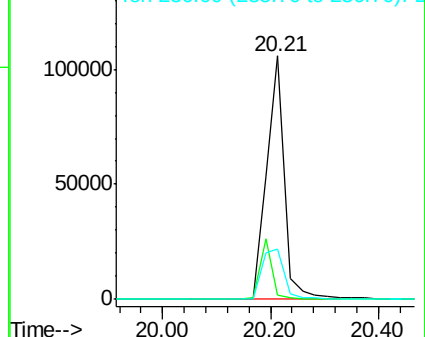
236 20.8 16.7 25.1



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: 0.24 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

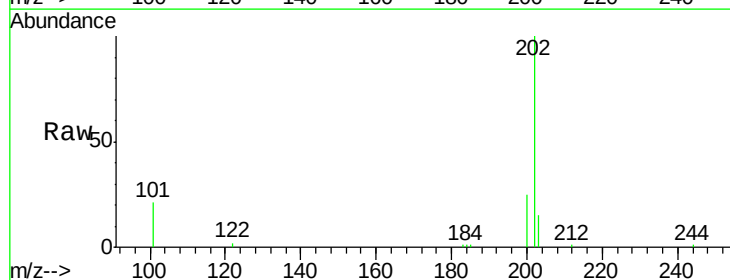
Tgt Ion:202 Resp: 16856

Ion Ratio Lower Upper

202 100

200 21.4 16.5 24.7

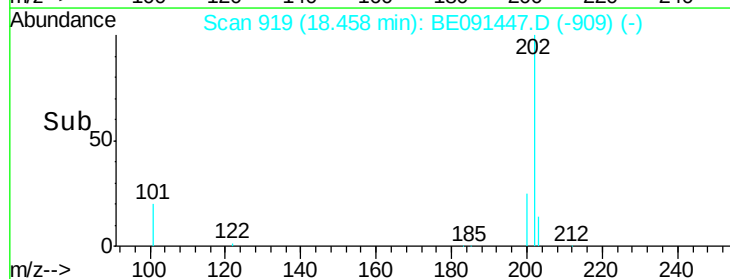
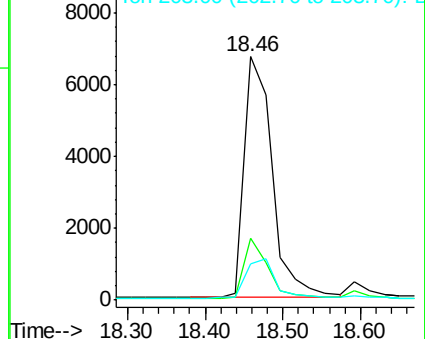
203 17.5 13.8 20.6

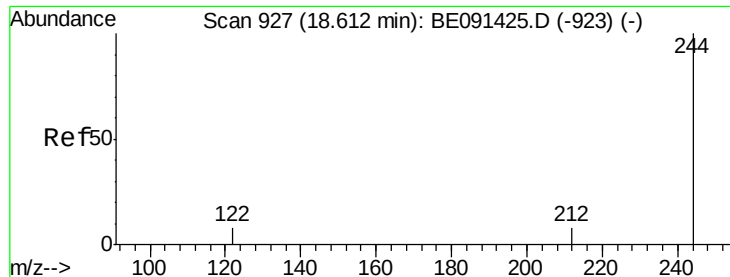


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

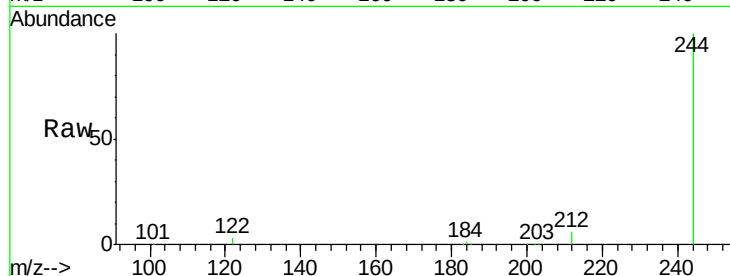




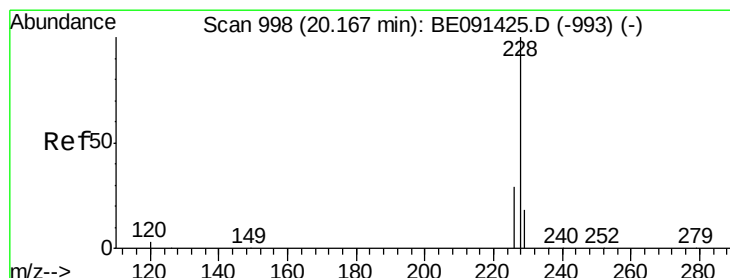
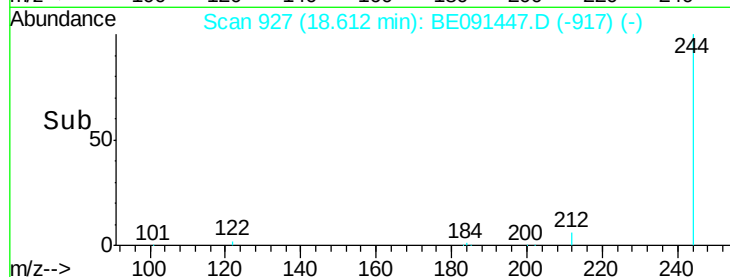
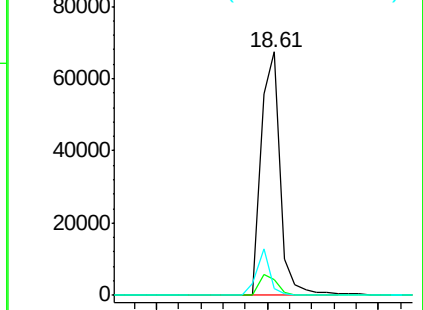
#21
 Terphenyl-d14
 Concen: 4.35 ng
 RT: 18.61 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:244 Resp: 160416
 Ion Ratio Lower Upper
 244 100
 212 6.3 7.0 10.6#
 122 2.5 6.8 10.2#

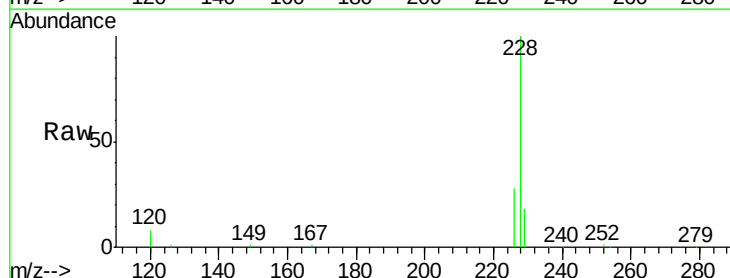


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

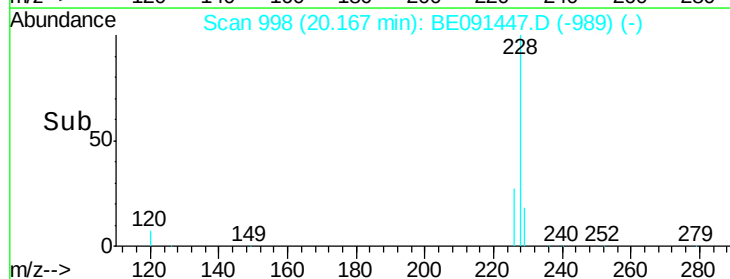
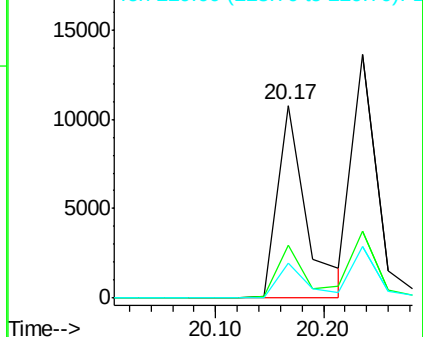


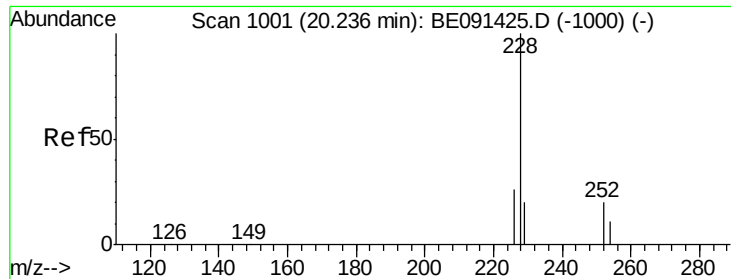
#22
 Benzo(a)anthracene
 Concen: 0.24 ng
 RT: 20.17 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

Tgt Ion:228 Resp: 19947
 Ion Ratio Lower Upper
 228 100
 226 27.7 23.1 34.7
 229 18.4 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

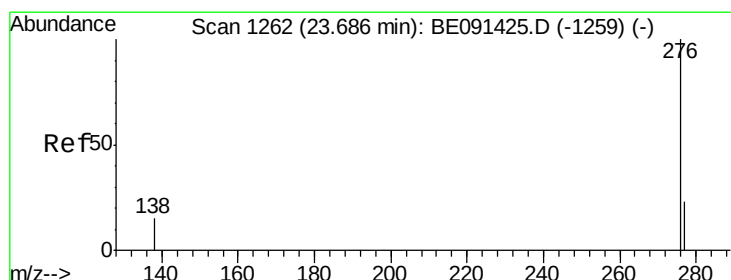
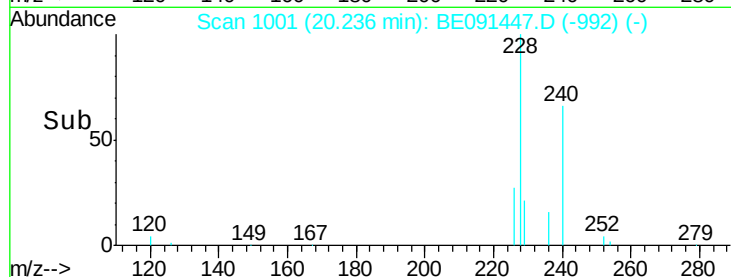
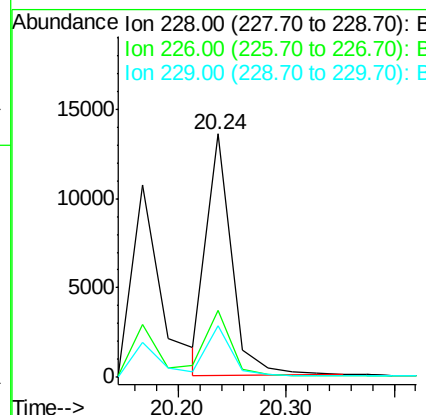
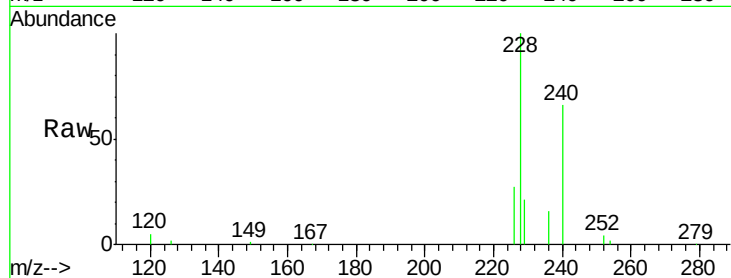




#23
Chrysene
Concen: 0.24 ng
RT: 20.24 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BE091447.D
Acq: 4 Mar 2016 6:10

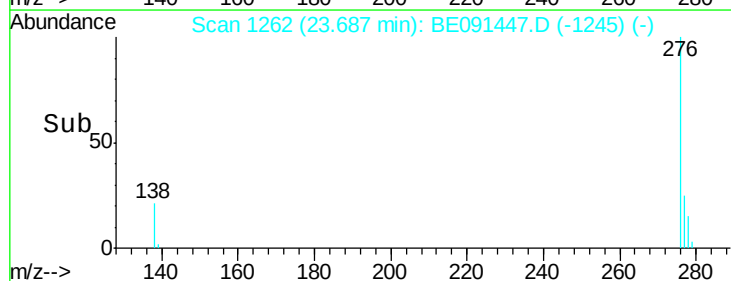
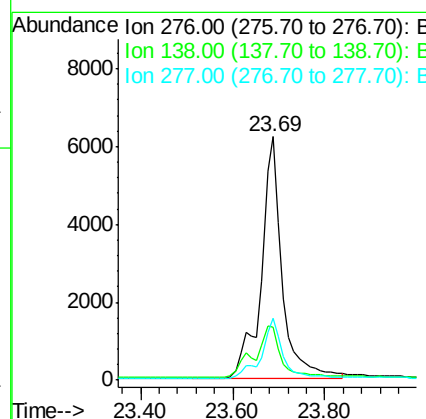
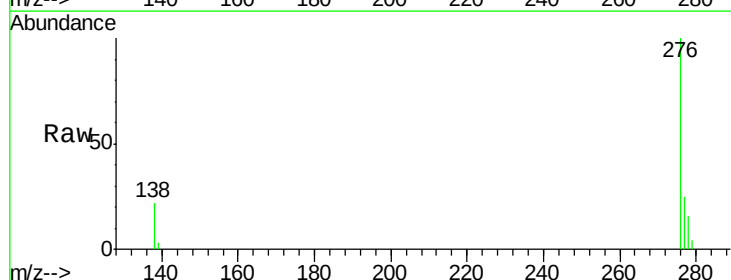
Instrument :
BNA_E
ClientSampleId :

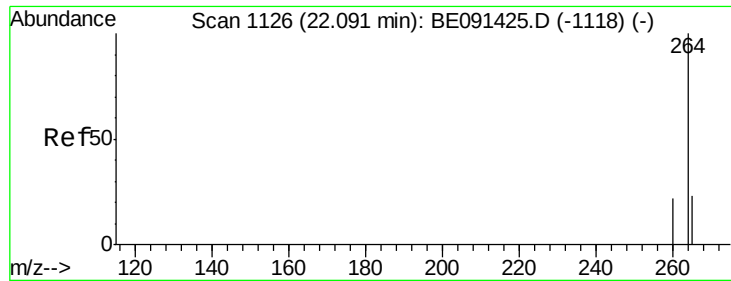
Tgt Ion: 228 Resp: 21443
Ion Ratio Lower Upper
228 100
226 27.4 22.0 33.0
229 21.0 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.27 ng
RT: 23.69 min Scan# 1262
Delta R.T. 0.00 min
Lab File: BE091447.D
Acq: 4 Mar 2016 6:10

Tgt Ion: 276 Resp: 19585
Ion Ratio Lower Upper
276 100
138 17.6 16.1 24.1
277 25.2 22.9 34.3

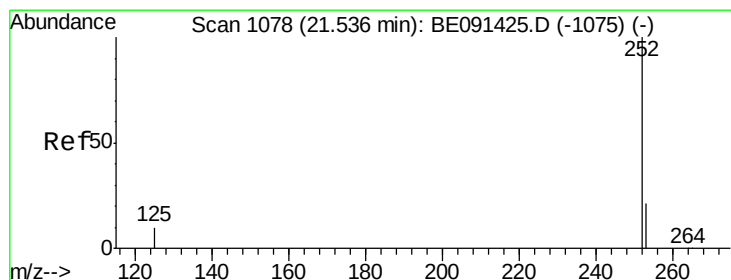
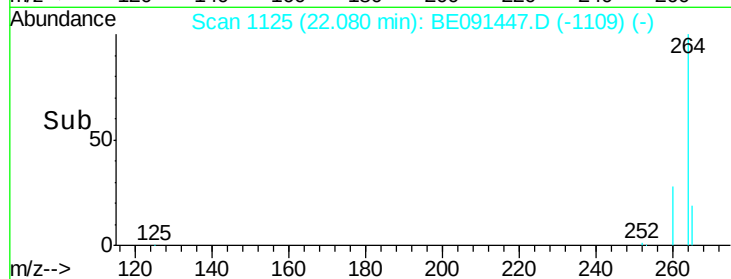
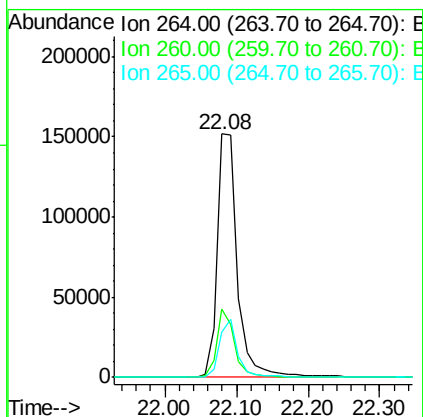
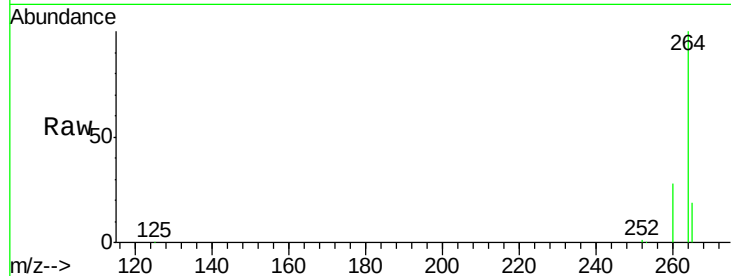




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.08 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

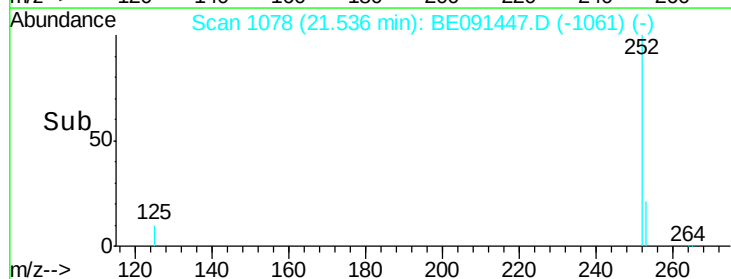
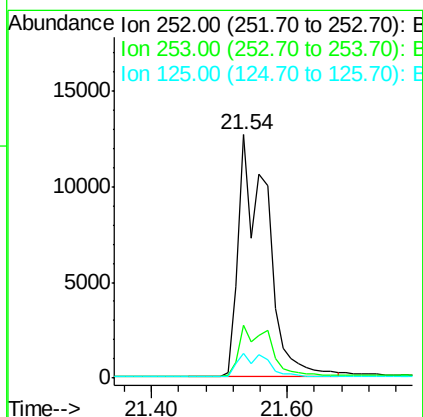
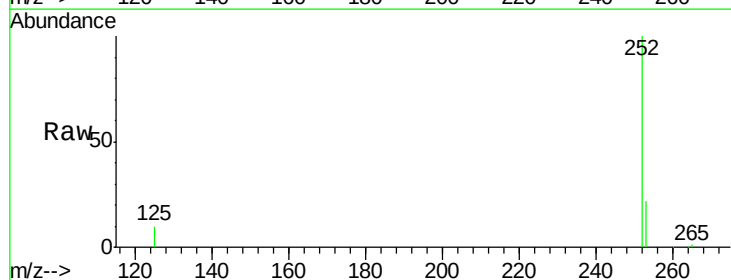
Instrument :
 BNA_E
 ClientSampleId :

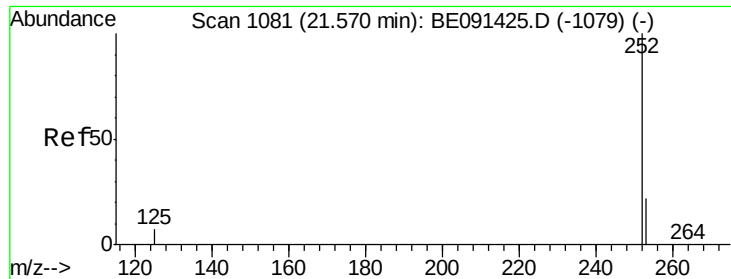
Tgt Ion: 264 Resp: 294760
 Ion Ratio Lower Upper
 264 100
 260 27.8 18.0 27.0#
 265 18.8 18.2 27.4



#26
 Benzo(b)fluoranthene
 Concen: 0.45 ng
 RT: 21.54 min Scan# 1078
 Delta R.T. 0.00 min
 Lab File: BE091447.D
 Acq: 4 Mar 2016 6:10

Tgt Ion: 252 Resp: 37198
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.0 25.4
 125 10.4 8.3 12.5

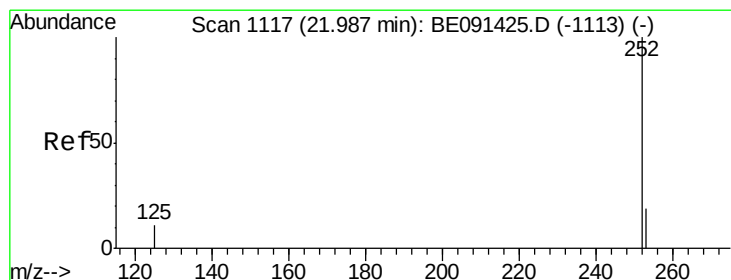
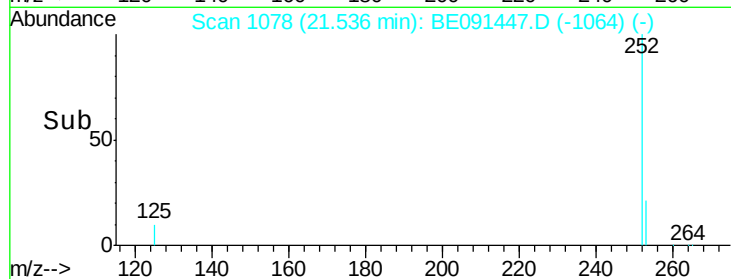
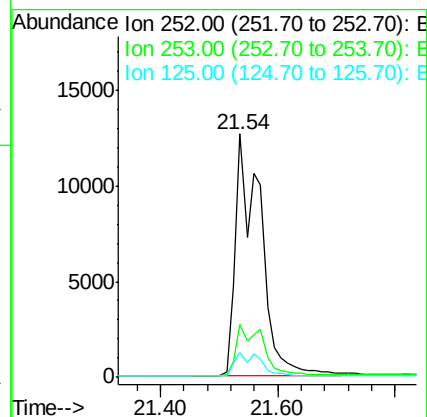
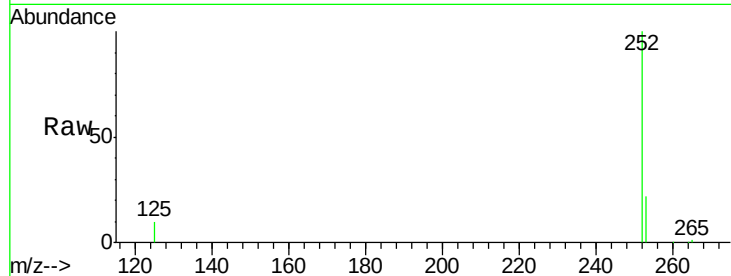




#27
Benzo(k)fluoranthene
Concen: 0.47 ng
RT: 21.54 min Scan# 1078
Delta R.T. -0.03 min
Lab File: BE091447.D
Acq: 4 Mar 2016 6:10

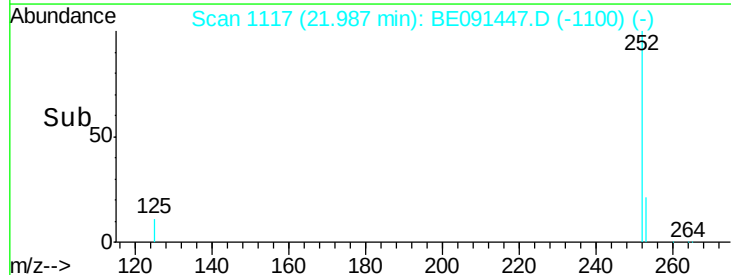
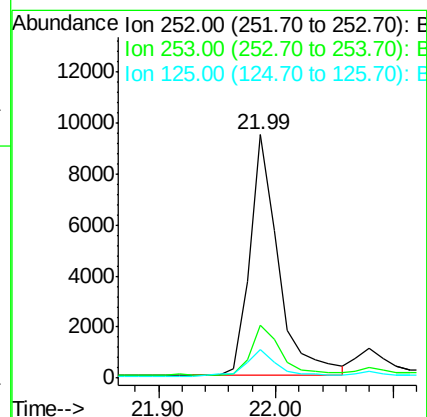
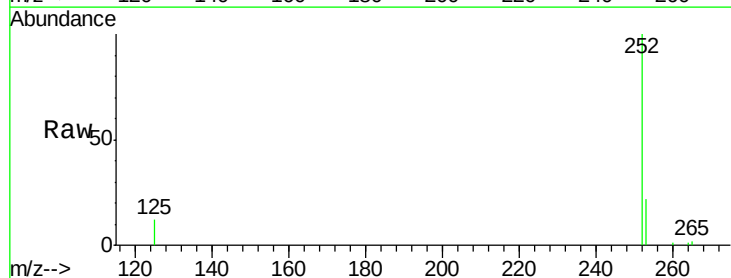
Instrument :
BNA_E
ClientSampleId :

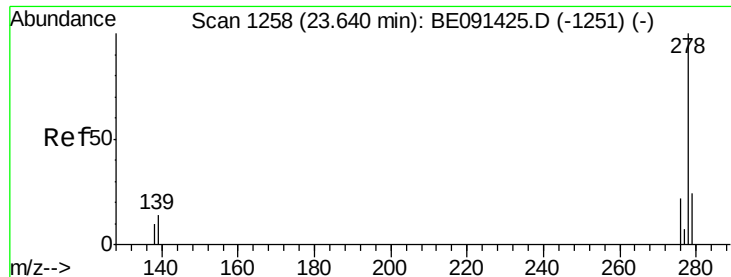
Tgt Ion: 252 Resp: 37534
Ion Ratio Lower Upper
252 100
253 21.9 19.5 29.3
125 10.4 7.3 10.9



#28
Benzo(a)pyrene
Concen: 0.22 ng
RT: 21.99 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE091447.D
Acq: 4 Mar 2016 6:10

Tgt Ion: 252 Resp: 15905
Ion Ratio Lower Upper
252 100
253 21.9 16.2 24.4
125 11.7 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 0.22 ng

RT: 23.64 min Scan# 1258

Delta R.T. 0.00 min

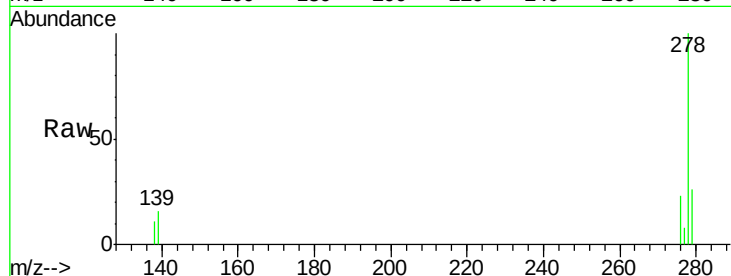
Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Instrument :

BNA_E

ClientSampleId :



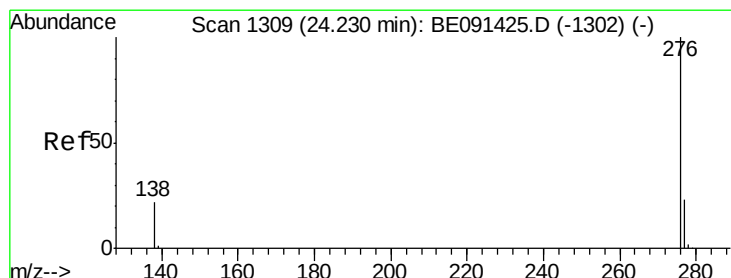
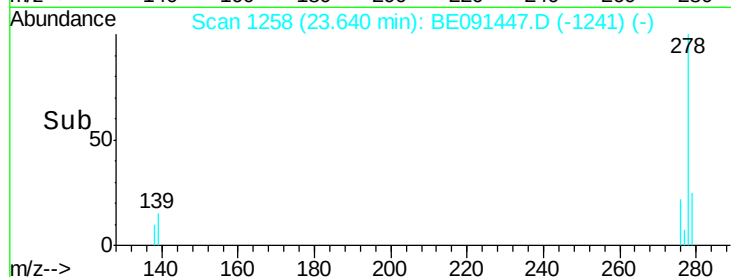
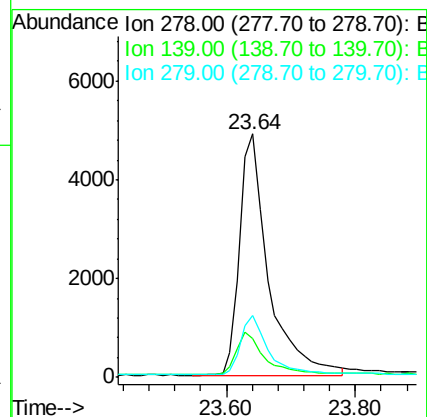
Tgt Ion: 278 Resp: 15053

Ion Ratio Lower Upper

278 100

139 15.8 12.1 18.1

279 25.6 19.4 29.0



#30

Benzo(g,h,i)perylene

Concen: 0.24 ng

RT: 24.23 min Scan# 1309

Delta R.T. 0.00 min

Lab File: BE091447.D

Acq: 4 Mar 2016 6:10

Tgt Ion: 276 Resp: 17400

Ion Ratio Lower Upper

276 100

277 23.4 19.0 28.6

138 24.3 18.2 27.4

