

Data Path : Z:\HPCHEM1\BNA E\DATA\BE052516\
 Data File : BE091863.D
 Acq On : 25 May 2016 17:54
 Operator : UM/SJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 25 18:23:12 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE052516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 18:07:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	22698	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	105119	5.00	ng	0.00
15) Acenaphthene-d10	14.40	164	63701	5.00	ng	0.00
24) Phenanthrene-d10	17.14	188	193476	5.00	ng	0.00
31) Chrysene-d12	21.29	240	268651	5.00	ng	0.00
40) Perylene-d12	23.71	264	231296	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	755	0.12	ng	0.00
5) Phenol-d6	6.95	99	942	0.11	ng	0.00
9) Nitrobenzene-d5	8.94	82	864	0.10	ng	0.00
16) 2,4,6-Tribromophenol	15.89	330	307	0.12	ng	0.00
17) 2-Fluorobiphenyl	13.03	172	2296	0.13	ng	0.00
34) Terphenyl-d14	19.74	244	4605	0.13	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.32	88	531	0.18	ng	# 81
3) n-Nitrosodimethylamine	3.63	42	522	0.13	ng	86
6) bis(2-Chloroethyl)ether	7.20	93	814	0.12	ng	99
7) n-Nitroso-di-n-propylamine	8.57	70	767	0.12	ng	# 81
10) Nitrobenzene	8.96	77	872	0.11	ng	# 94
11) bis(2-Chloroethoxy)methane	9.98	93	2001	0.22	ng	88
12) Naphthalene	10.61	128	2765	0.13	ng	# 94
13) Hexachlorobutadiene	10.90	225	419	0.13	ng	98
14) 2-Methylnaphthalene	12.22	142	1723	0.12	ng	# 92
18) Acenaphthylene	14.10	152	4122	0.15	ng	# 84
19) 2,6-Dinitrotoluene	13.98	165	416	0.10	ng	# 85
20) Acenaphthene	14.44	154	2203	0.14	ng	95
21) 2,4-Dinitrotoluene	14.78	165	447	0.09	ng	# 1
22) Fluorene	15.44	166	2674	0.13	ng	99
23) 4-Chlorophenyl-phenylether	15.44	204	1339	0.13	ng	100
25) 4-Bromophenyl-phenylether	16.31	248	856	0.14	ng	98
26) Hexachlorobenzene	16.44	284	820	0.14	ng	98
27) Pentachlorophenol	16.80	266	230	0.09	ng	89
28) Phenanthrene	17.17	178	5413	0.15	ng	97
29) Anthracene	17.26	178	4614	0.13	ng	100
30) Fluoranthene	19.19	202	6112	0.14	ng	99
32) Benzidine	19.38	184	1620	0.08	ng	# 81
33) Pyrene	19.53	202	6404	0.12	ng	98
35) Benzo(a)anthracene	21.27	228	15768	0.18	ng	98
36) 3,3'-Dichlorobenzidine	21.22	252	4734	0.14	ng	# 92
37) Chrysene	21.27	228	15849	0.18	ng	90
38) Bis(2-ethylhexyl)phthalate	21.17	149	2994	0.13	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.26	276	7663	0.13	ng	99
41) Benzo(b)fluoranthene	22.97	252	7461	0.13	ng	# 90
42) Benzo(k)fluoranthene	23.02	252	6574	0.12	ng	# 93
43) Benzo(a)pyrene	23.60	252	6601	0.13	ng	# 88
44) Dibenzo(a,h)anthracene	26.29	278	6258	0.12	ng	# 92
45) Benzo(a,h,i)perylene	27.05	276	6507	0.13	ng	94

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QLast Update : Wed May 25 18:07:24 2016
Response via : Initial Calibration

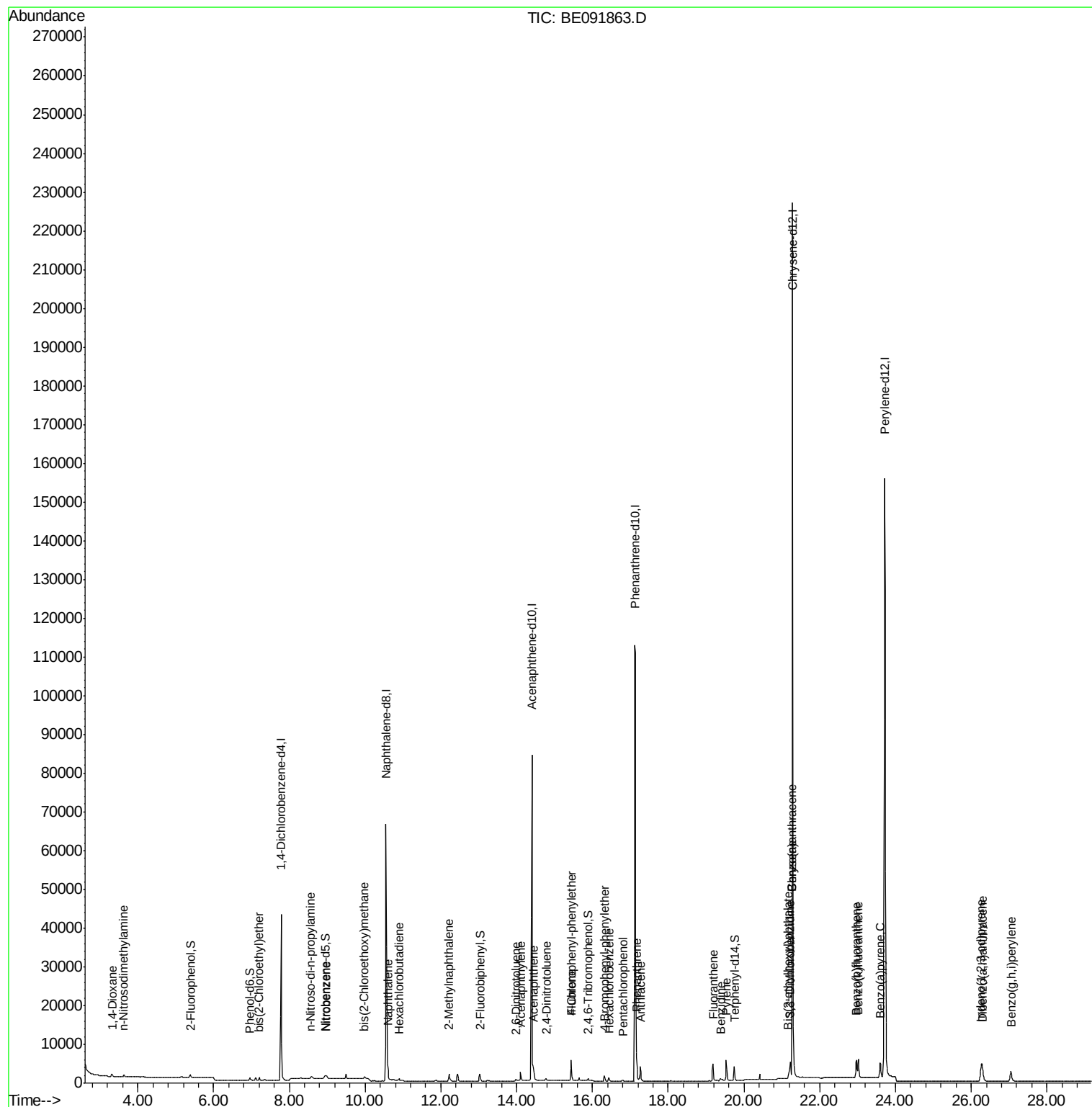
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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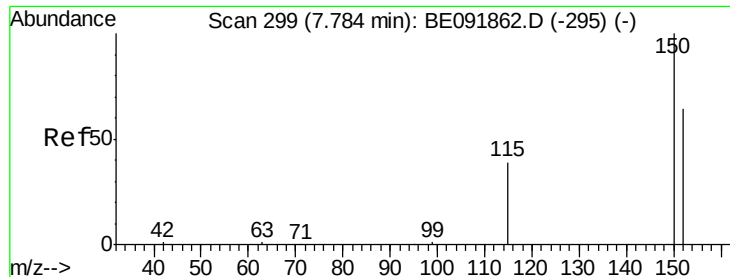
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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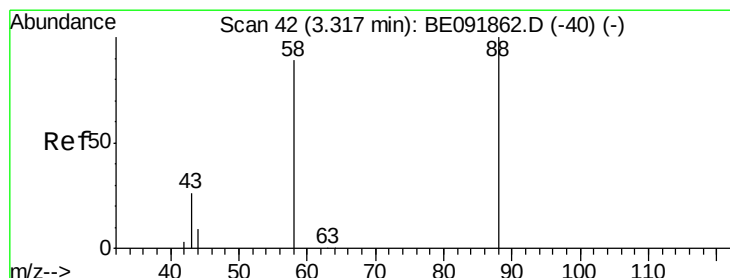
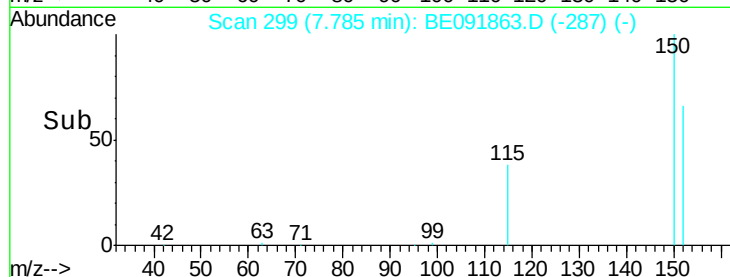
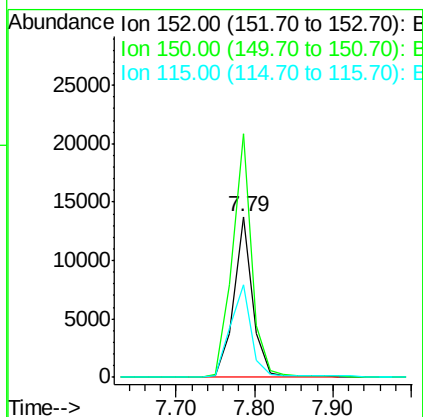
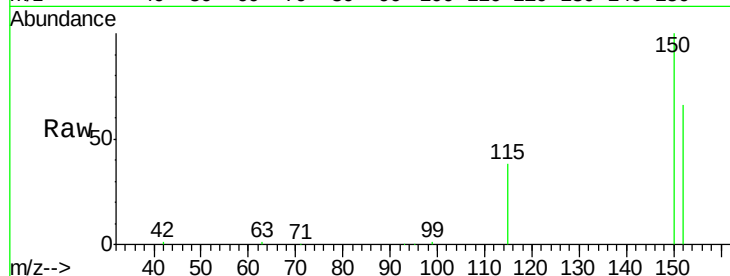


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.79 min Scan# 299
Delta R.T. 0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Instrument :
BNA_E
ClientSampleId :

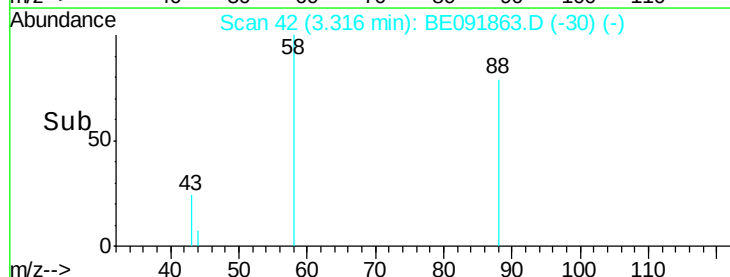
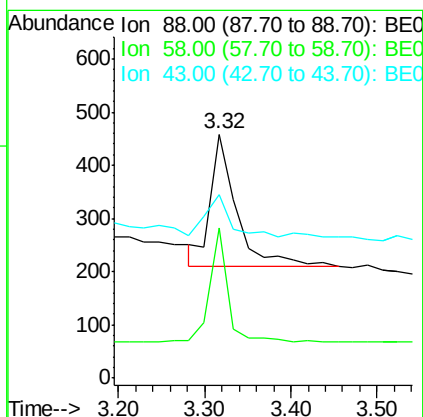
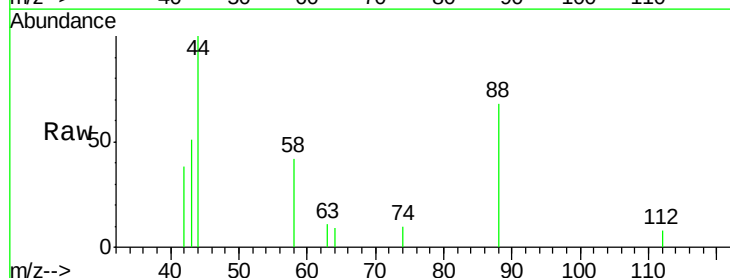
Tot Ion:152 Resp: 22698
Ion Ratio Lower Upper
152 100
150 151.8 123.9 185.9
115 58.1 48.3 72.5

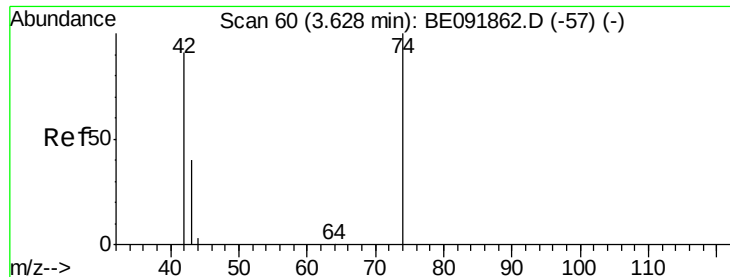


#2

1,4-Dioxane
Concen: 0.18 ng
RT: 3.32 min Scan# 42
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion: 88 Resp: 531
Ion Ratio Lower Upper
88 100
58 58.9 63.0 94.4#
43 29.8 29.1 43.7



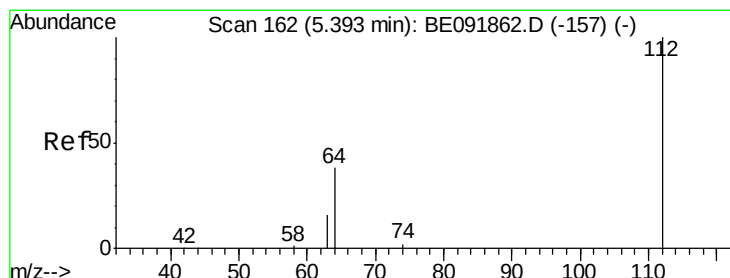
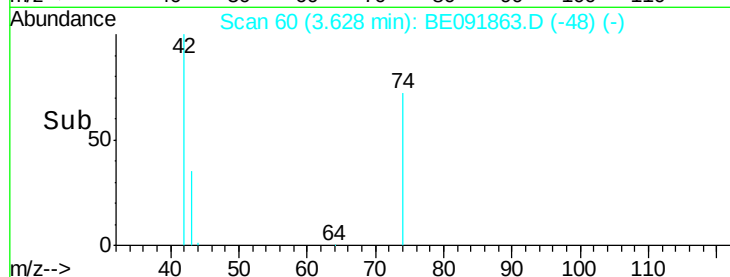
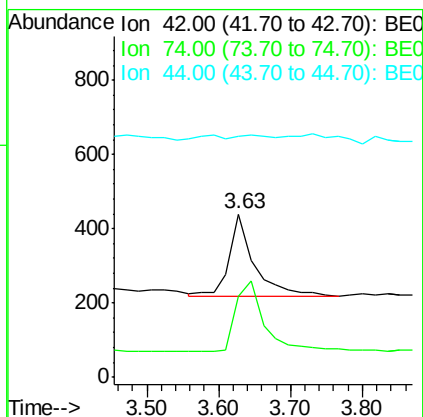
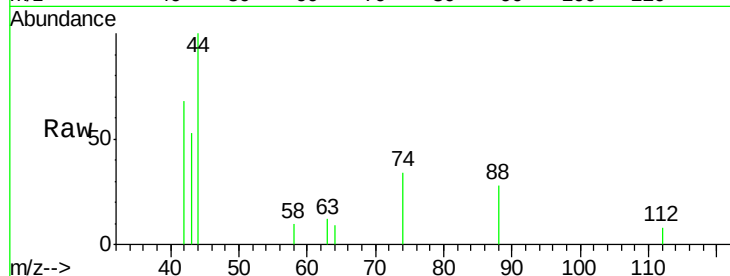


#3

n-Nitrosodimethylamine
Concen: 0.13 ng
RT: 3.63 min Scan# 60
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Instrument :
BNA_E
ClientSampleId :

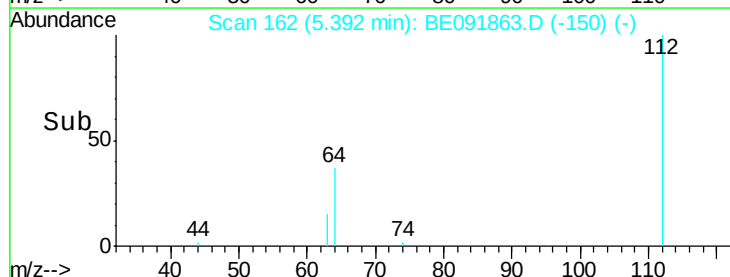
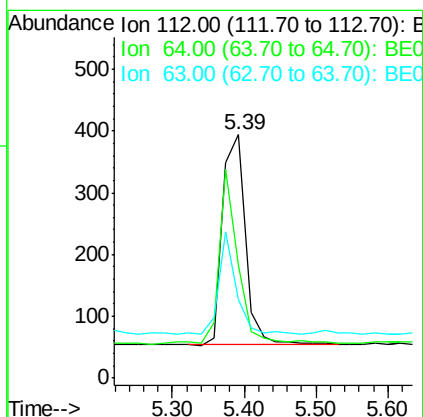
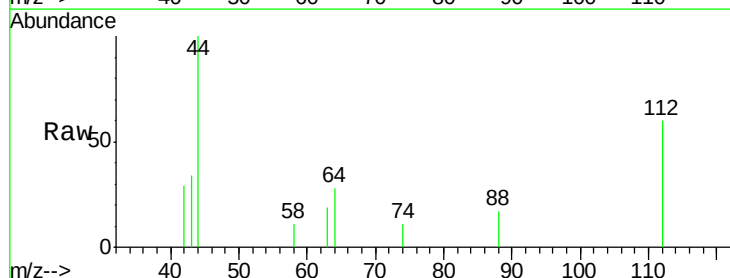
Tot Ion: 42 Resp: 522
Ion Ratio Lower Upper
42 100
74 100.0 93.4 140.0
44 6.3 5.0 7.6

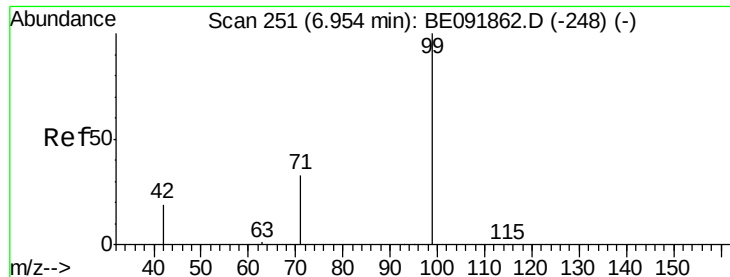


#4

2-Fluorophenol
Concen: 0.12 ng
RT: 5.39 min Scan# 162
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion: 112 Resp: 755
Ion Ratio Lower Upper
112 100
64 68.2 53.7 80.5
63 35.9 29.5 44.3





#5

Phenol-d6

Concen: 0.11 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

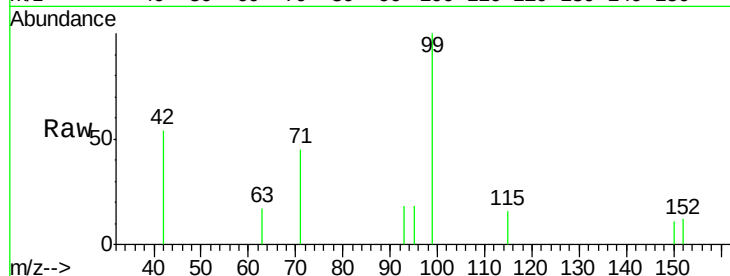
Tot Ion: 99 Resp: 942

Ion Ratio Lower Upper

99 100

42 25.9 19.6 29.4

71 36.7 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

6.95

500

400

300

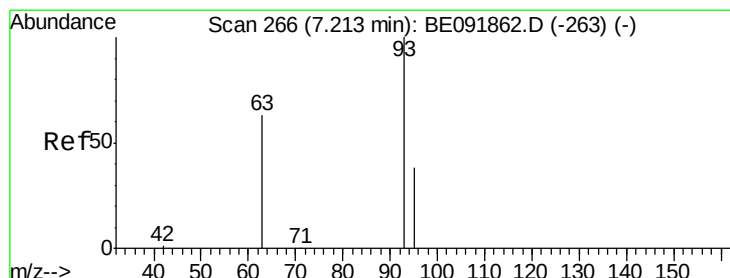
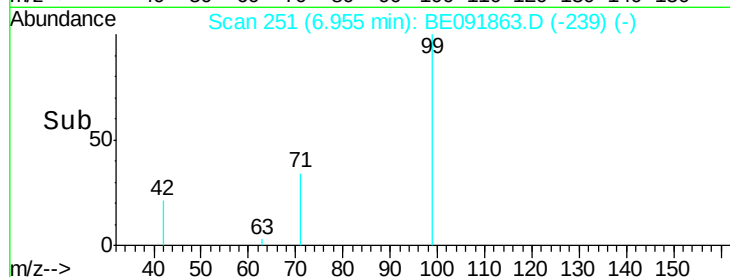
200

100

0

6.80 7.00

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.12 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.02 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

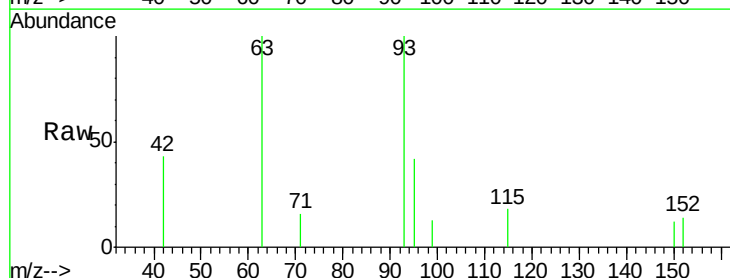
Tgt Ion: 93 Resp: 814

Ion Ratio Lower Upper

93 100

63 84.2 66.2 99.4

95 31.4 25.5 38.3



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

7.20

800

600

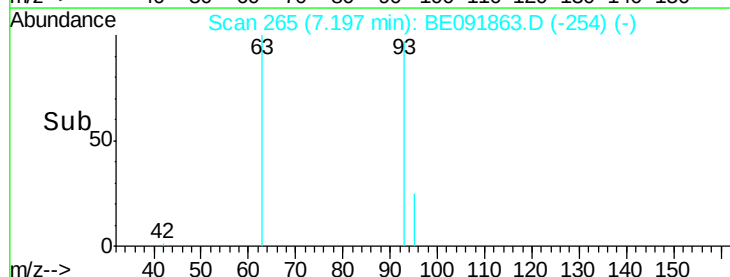
400

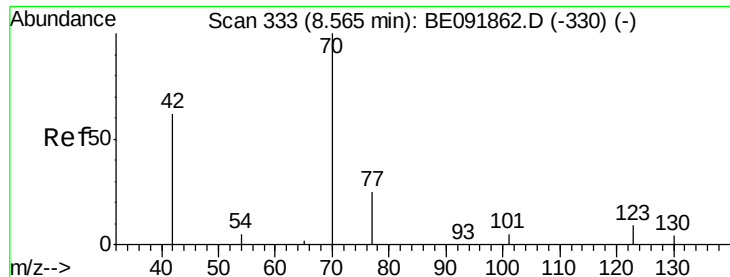
200

0

7.10 7.20 7.30

Time-->





#7

n-Nitroso-di-n-propylamine

Concen: 0.12 ng

RT: 8.57 min Scan# 333

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 70 Resp: 767

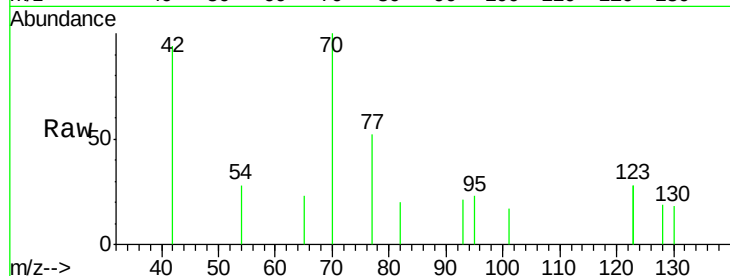
Ion Ratio Lower Upper

70 100

42 57.2 58.4 87.6#

101 0.0 6.4 9.6#

130 0.0 0.0 0.0

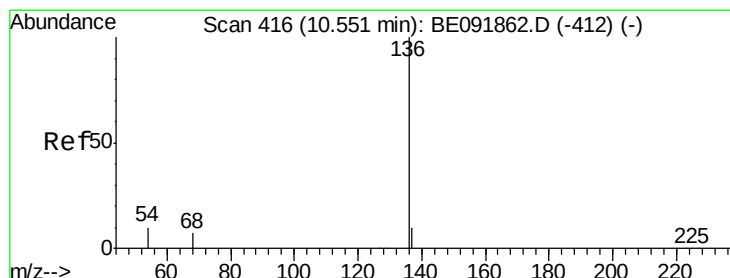
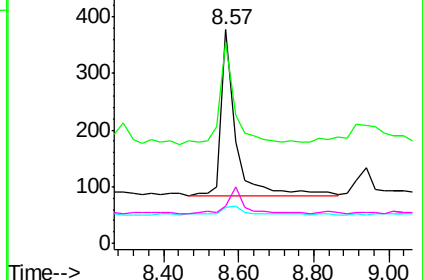
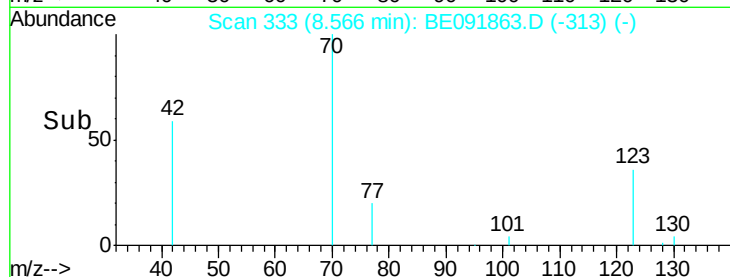


Abundance Ion 70.00 (69.70 to 70.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Tgt Ion: 136 Resp: 105119

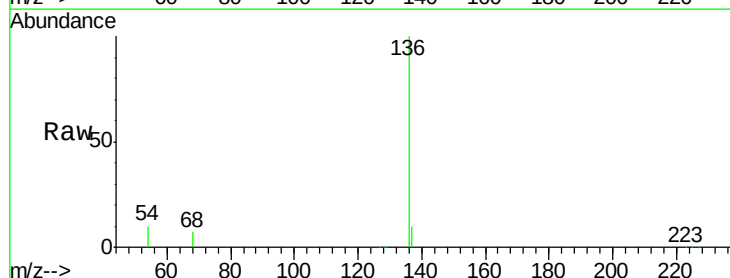
Ion Ratio Lower Upper

136 100

137 10.2 8.3 12.5

54 10.2 8.2 12.4

68 7.3 5.9 8.9

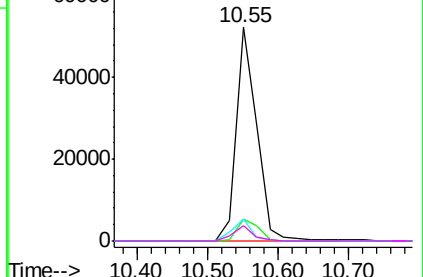
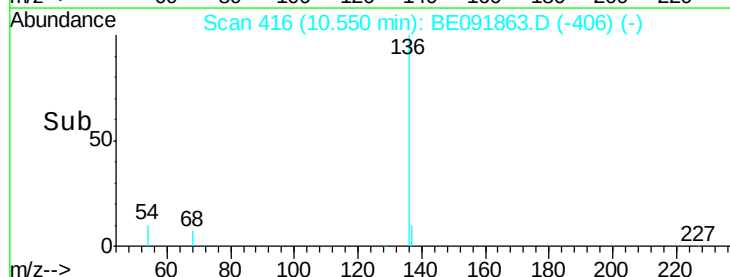


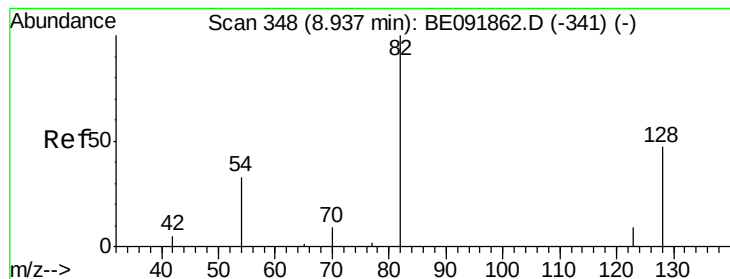
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#9

Nitrobenzene-d5

Concen: 0.10 ng

RT: 8.94 min Scan# 348

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampled :

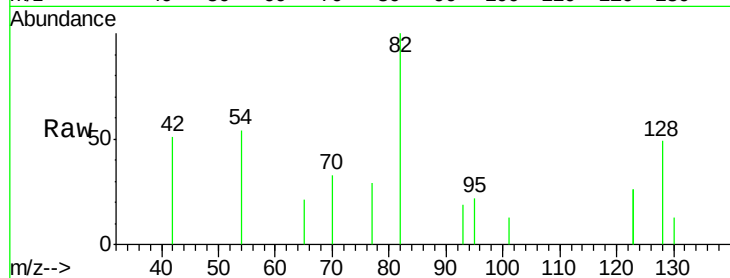
Tot Ion: 82 Resp: 864

Ion Ratio Lower Upper

82 100

128 48.6 39.5 59.3

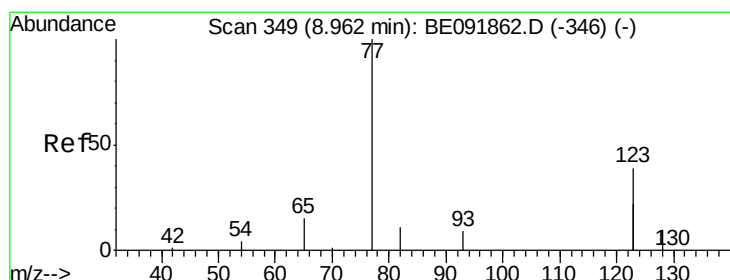
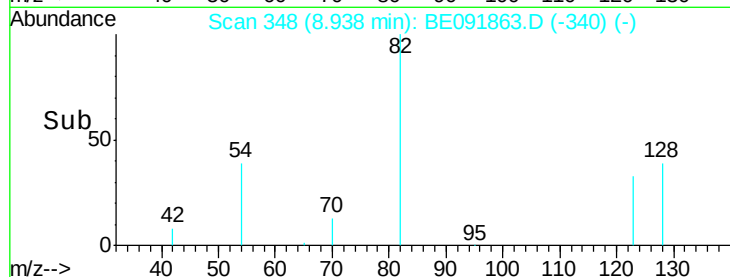
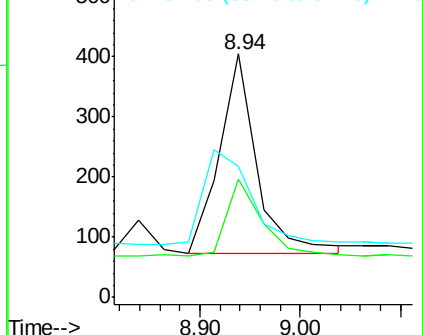
54 53.8 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#10

Nitrobenzene

Concen: 0.11 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

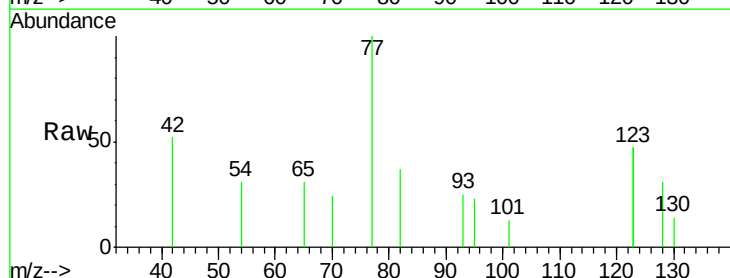
Tgt Ion: 77 Resp: 872

Ion Ratio Lower Upper

77 100

123 0.0 0.0 0.0

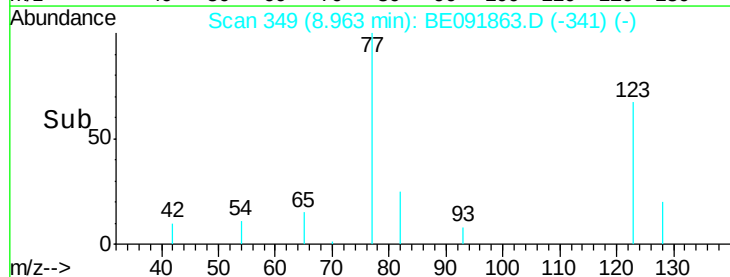
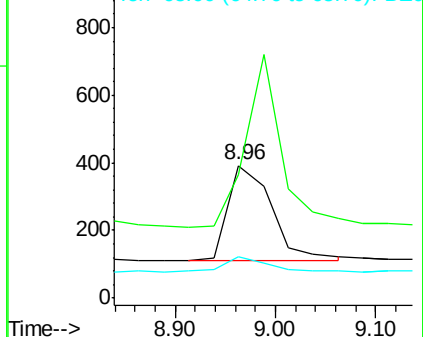
65 16.5 11.1 16.7

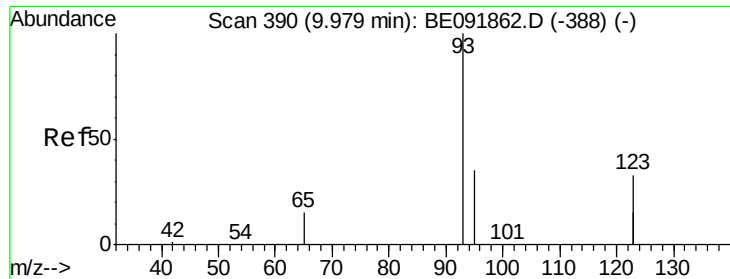


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

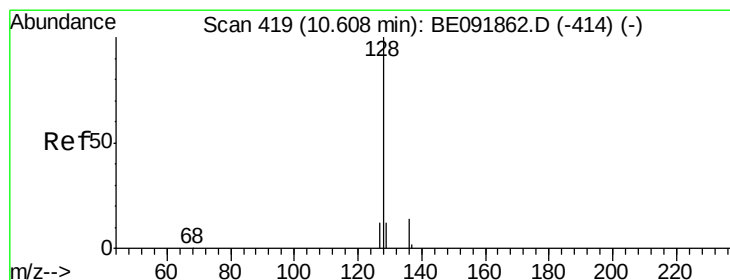
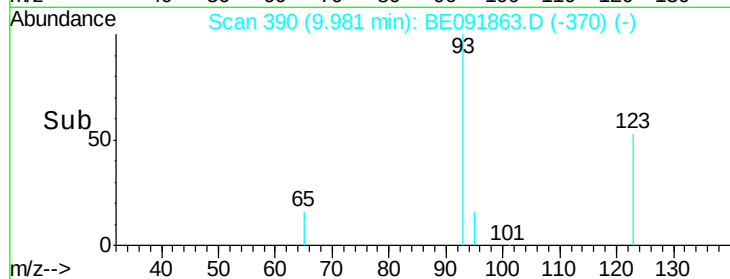
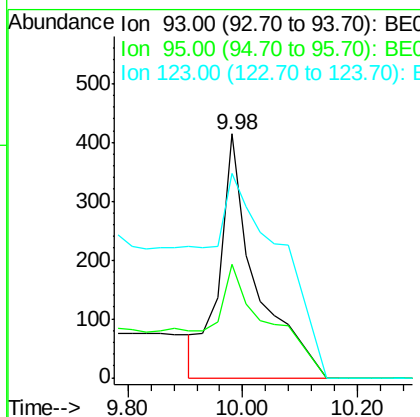
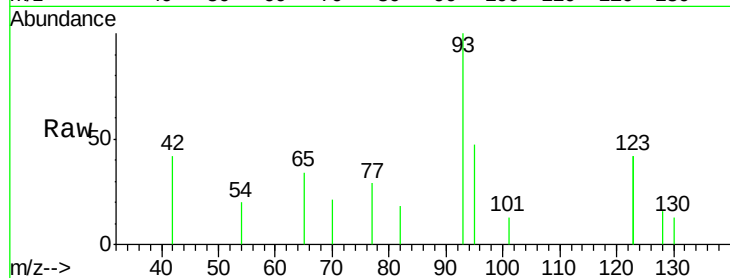




#11
bis(2-Chloroethoxy)methane
Concen: 0.22 ng
RT: 9.98 min Scan# 390
Delta R.T. 0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

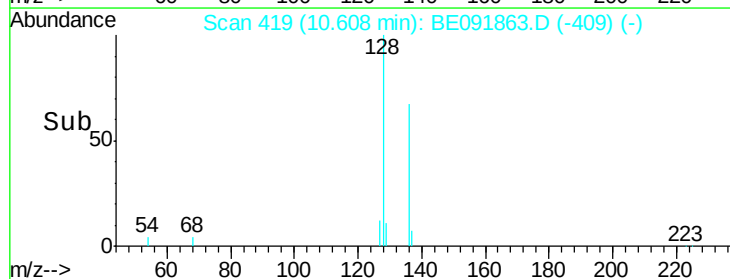
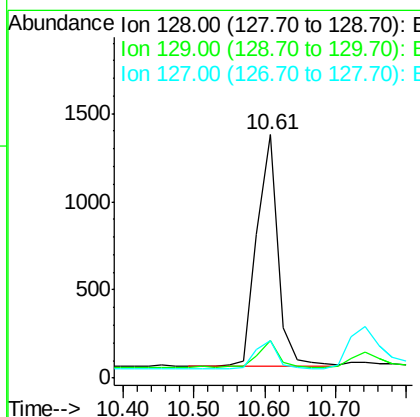
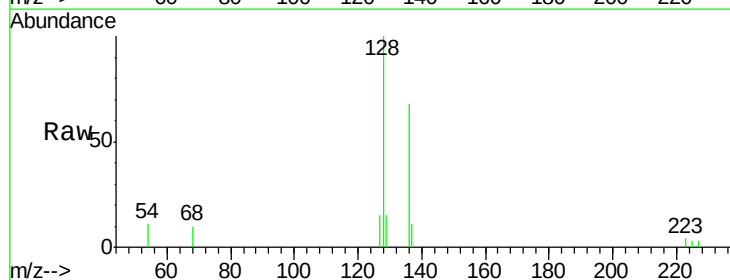
Instrument :
BNA_E
ClientSampleId :

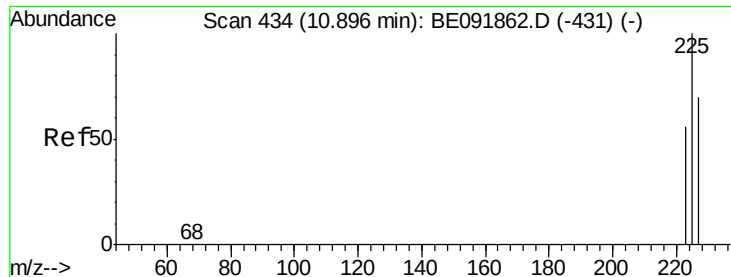
Tot Ion: 93 Resp: 2001
Ion Ratio Lower Upper
93 100
95 60.6 57.6 86.4
123 137.5 100.2 150.4



#12
Naphthalene
Concen: 0.13 ng
RT: 10.61 min Scan# 419
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion: 128 Resp: 2765
Ion Ratio Lower Upper
128 100
129 15.2 10.4 15.6
127 15.4 10.2 15.2#

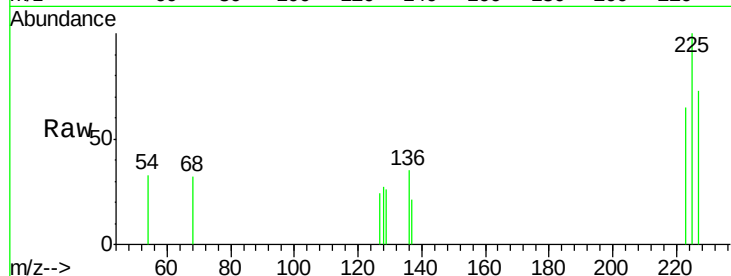




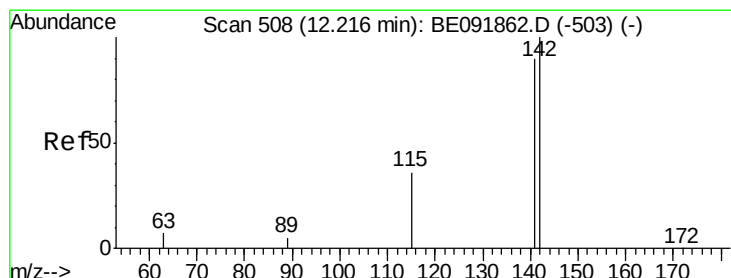
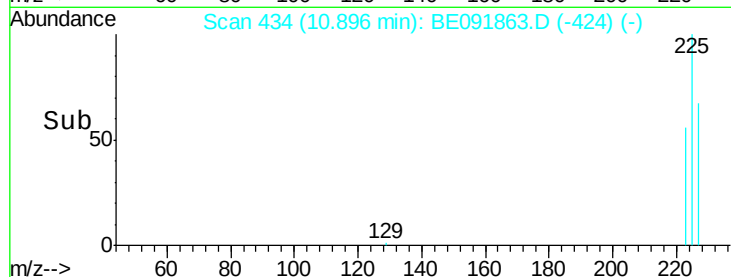
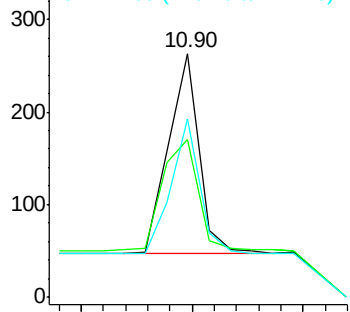
#13
Hexachlorobutadiene
Concen: 0.13 ng
RT: 10.90 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:225 Resp: 419
Ion Ratio Lower Upper
225 100
223 65.2 49.8 74.8
227 63.2 50.6 75.8

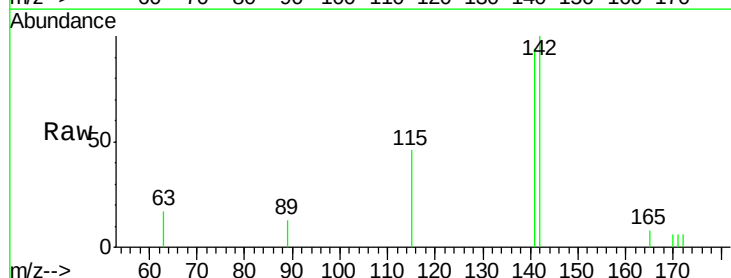


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

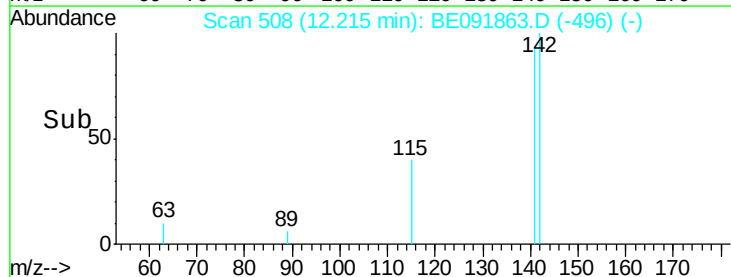
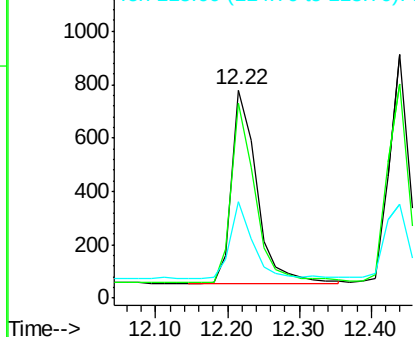


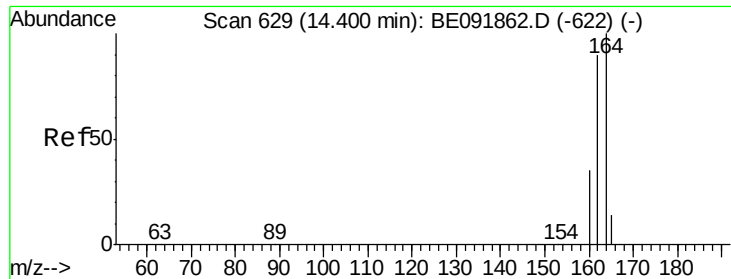
#14
2-Methylnaphthalene
Concen: 0.12 ng
RT: 12.22 min Scan# 508
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion:142 Resp: 1723
Ion Ratio Lower Upper
142 100
141 94.1 71.9 107.9
115 46.5 29.9 44.9#



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





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 629

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

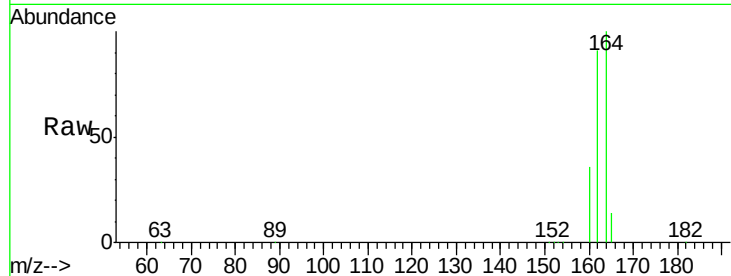
Tot Ion:164 Resp: 63701

Ion Ratio Lower Upper

164 100

162 91.3 71.8 107.8

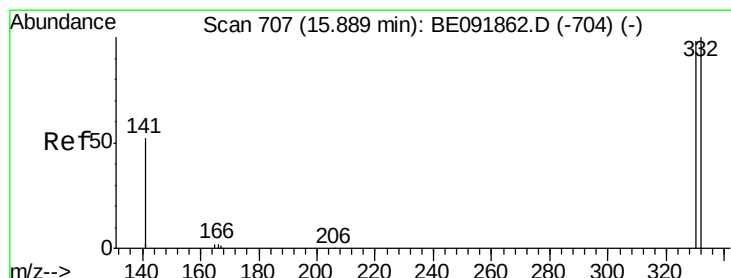
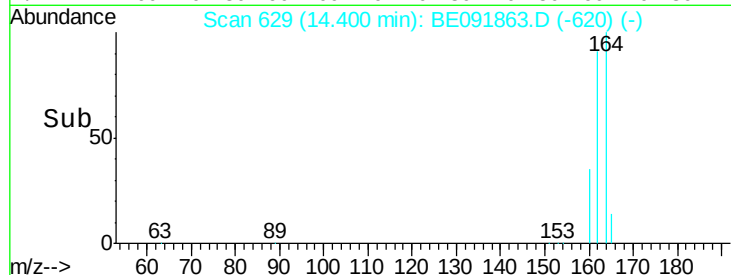
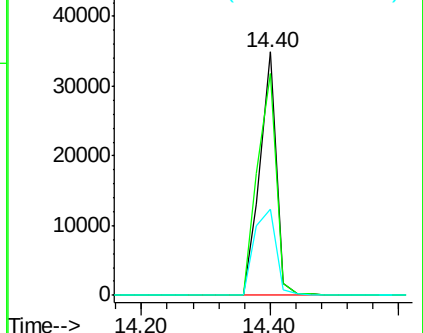
160 35.5 28.0 42.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#16

2,4,6-Tribromophenol

Concen: 0.12 ng

RT: 15.89 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

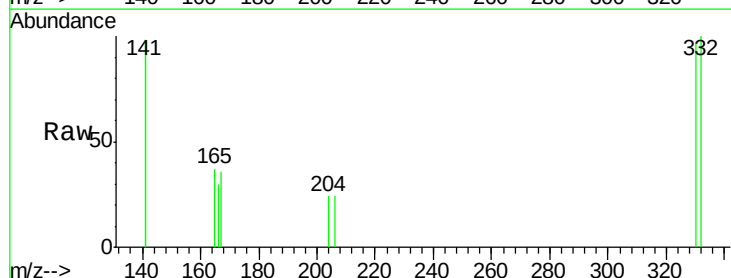
Tgt Ion:330 Resp: 307

Ion Ratio Lower Upper

330 100

332 97.7 77.0 115.6

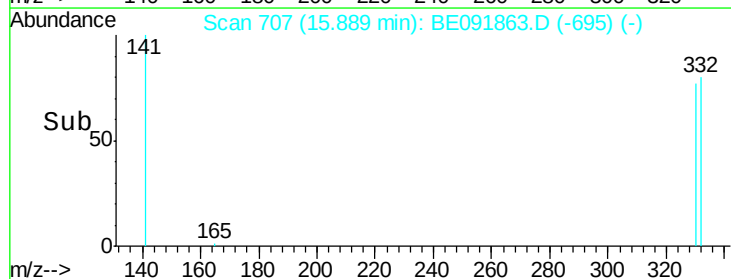
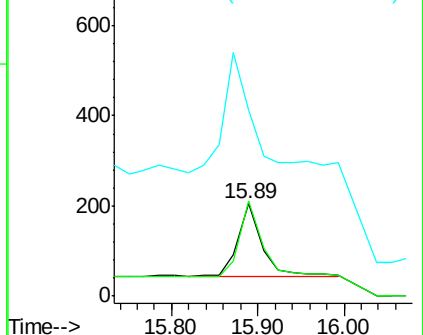
141 205.5 138.4 207.6

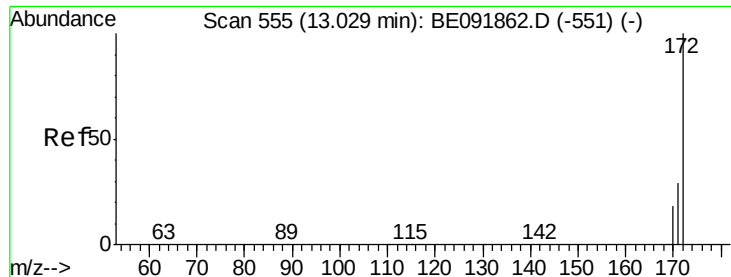


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

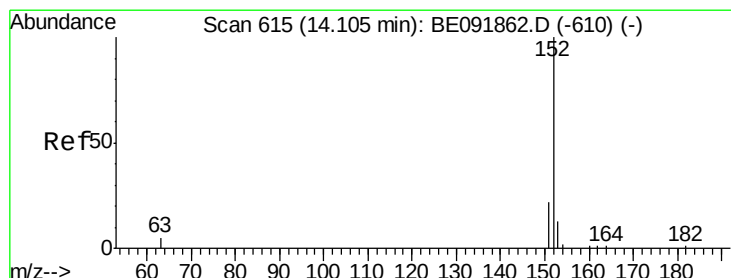
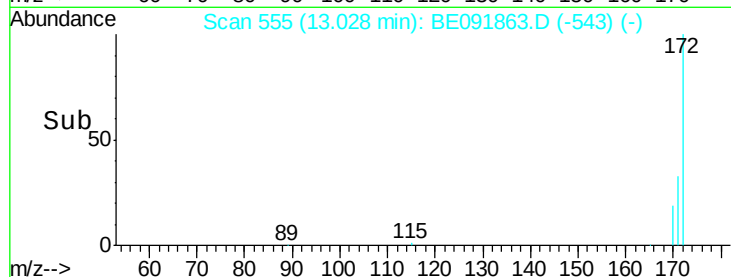
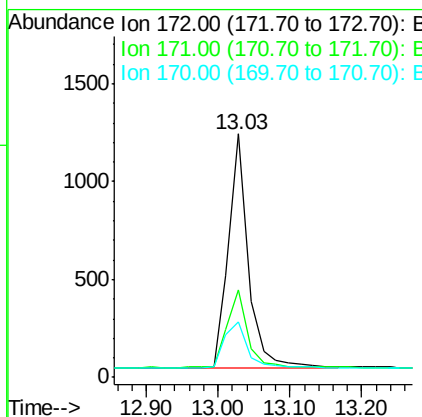
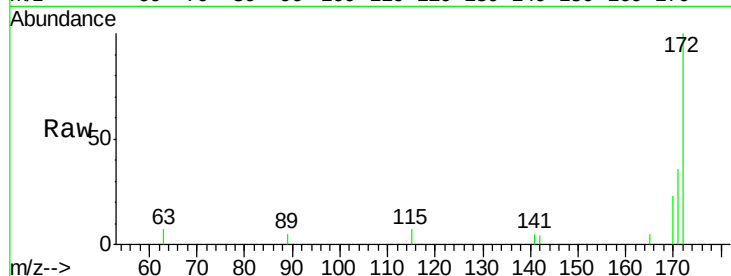




#17
2-Fluorobiphenyl
Concen: 0.13 ng
RT: 13.03 min Scan# 555
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

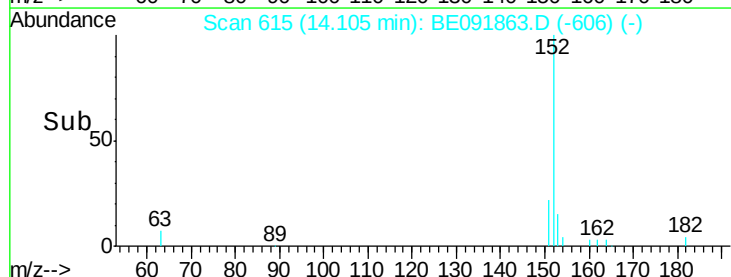
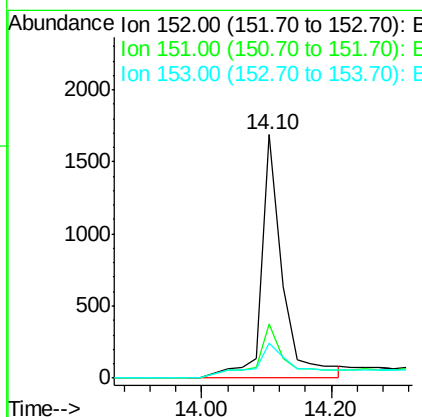
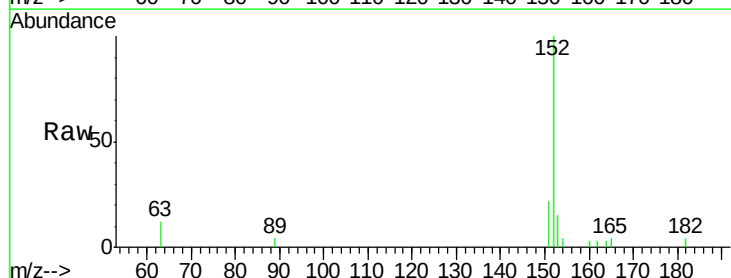
Instrument :
BNA_E
ClientSampleId :

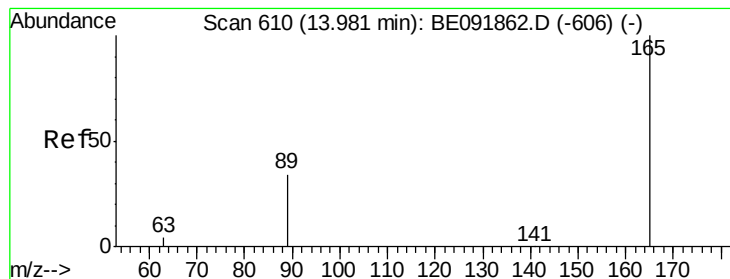
Tot Ion:172 Resp: 2296
Ion Ratio Lower Upper
172 100
171 35.7 24.3 36.5
170 22.7 14.9 22.3#



#18
Acenaphthylene
Concen: 0.15 ng
RT: 14.10 min Scan# 615
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion:152 Resp: 4122
Ion Ratio Lower Upper
152 100
151 31.6 19.4 29.2#
153 25.7 14.4 21.6#





#19

2,6-Dinitrotoluene

Concen: 0.10 ng

RT: 13.98 min Scan# 610

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampled :

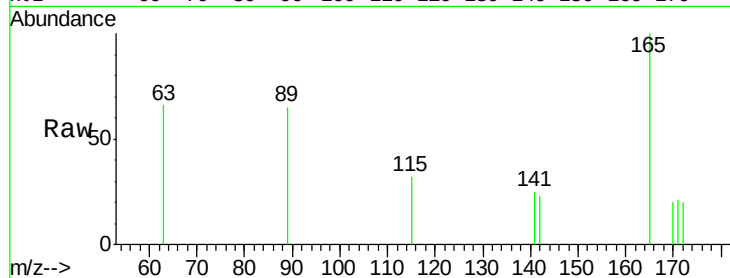
Tot Ion:165 Resp: 416

Ion Ratio Lower Upper

165 100

63 102.9 65.9 98.9#

89 78.8 59.1 88.7



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

13.98

250

200

150

100

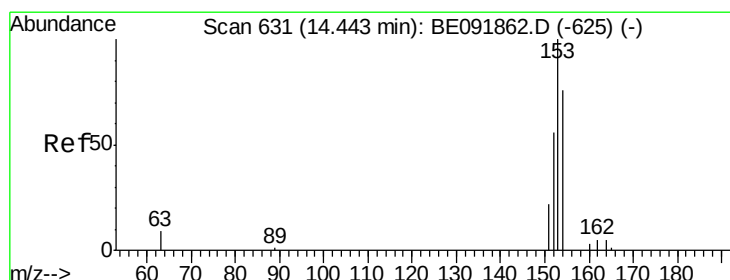
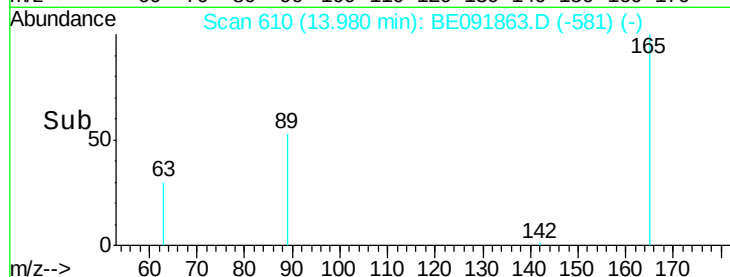
50

0

14.00

14.20

Time-->



#20

Acenaphthene

Concen: 0.14 ng

RT: 14.44 min Scan# 631

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

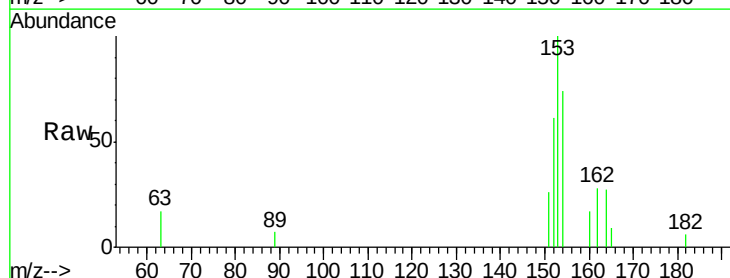
Tgt Ion:154 Resp: 2203

Ion Ratio Lower Upper

154 100

153 103.5 88.1 132.1

152 52.7 44.2 66.2



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

14.44

1500

1000

500

0

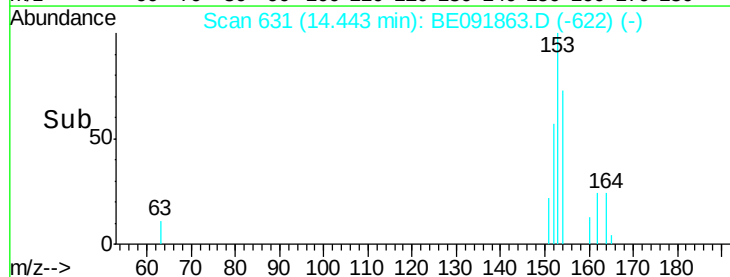
14.30

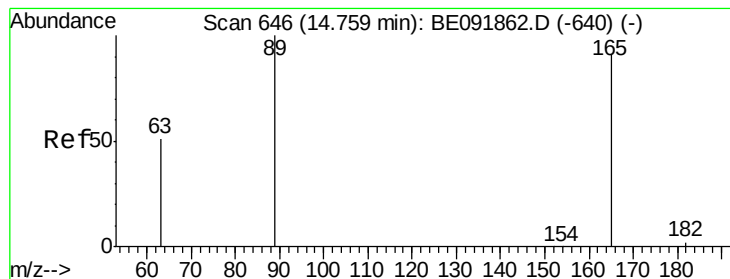
14.40

14.50

14.60

Time-->





#21

2,4-Dinitrotoluene

Concen: 0.09 ng

RT: 14.78 min Scan# 647

Delta R.T. 0.02 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

Tot Ion:165 Resp: 447

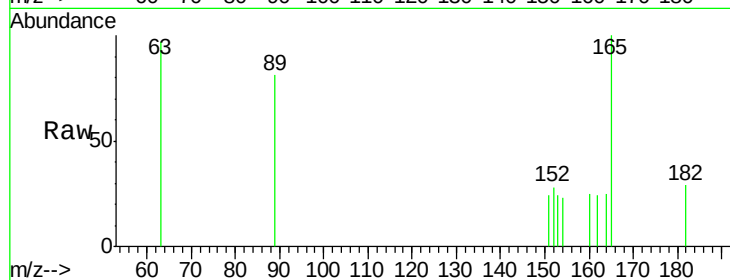
Ion Ratio Lower Upper

165 100

63 100.4 0.0 0.0#

89 0.0 99.8 149.8#

182 0.0 0.0 0.0

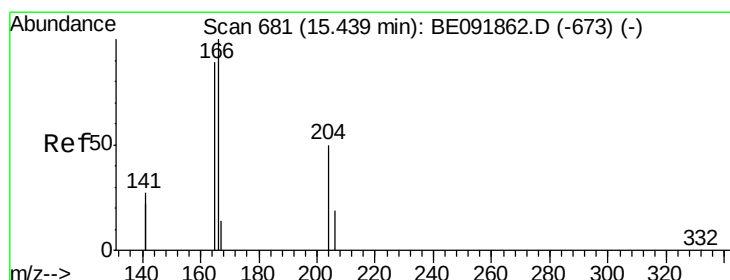
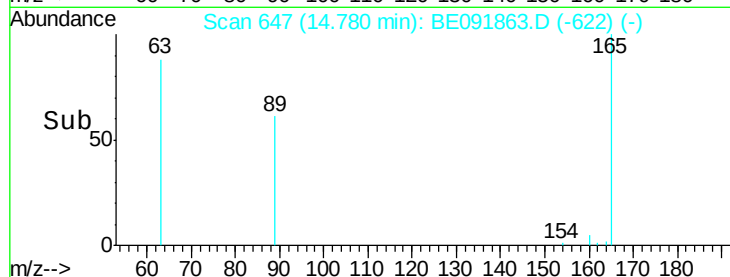
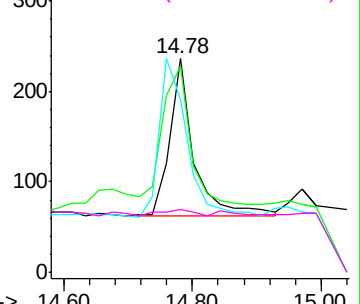


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E



#22

Fluorene

Concen: 0.13 ng

RT: 15.44 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

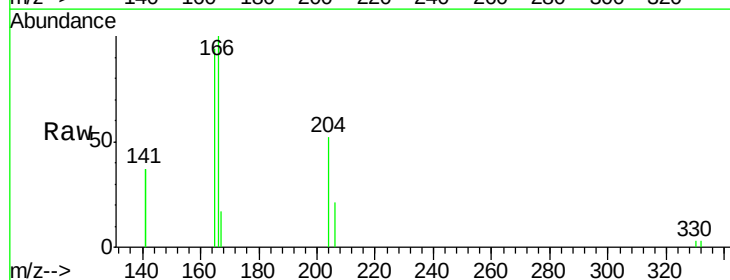
Tgt Ion:166 Resp: 2674

Ion Ratio Lower Upper

166 100

165 98.9 78.6 117.8

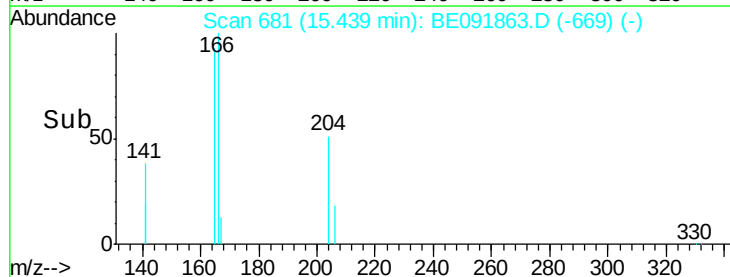
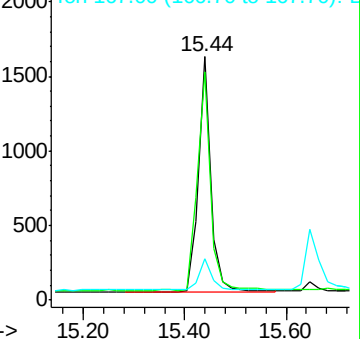
167 13.1 10.8 16.2

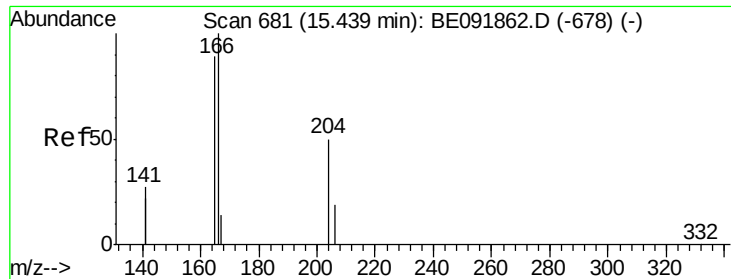


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#23

4-Chlorophenyl-phenylether

Concen: 0.13 ng

RT: 15.44 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

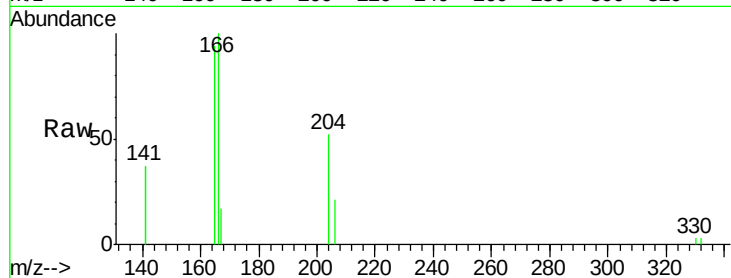
Tot Ion:204 Resp: 1339

Ion Ratio Lower Upper

204 100

206 34.9 27.8 41.6

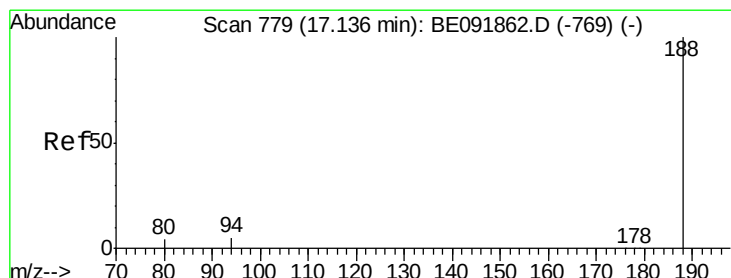
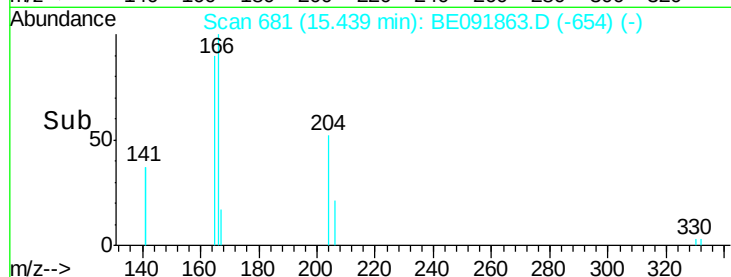
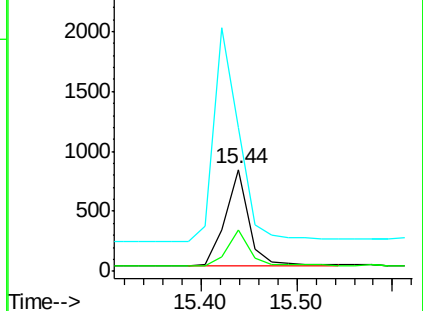
141 247.1 197.6 296.4



Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 779

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

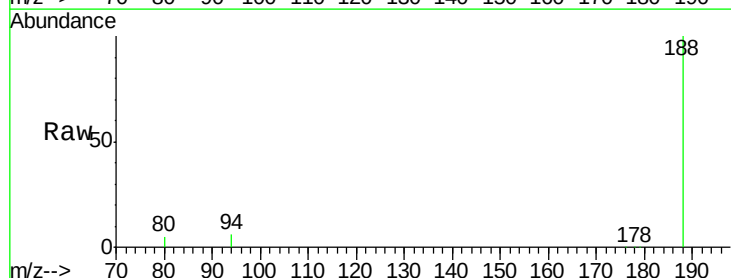
Tgt Ion:188 Resp: 193476

Ion Ratio Lower Upper

188 100

94 5.8 4.1 6.1

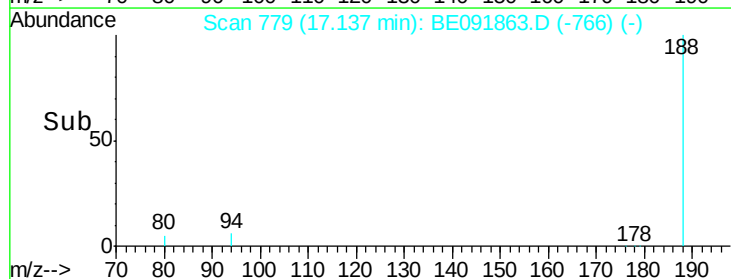
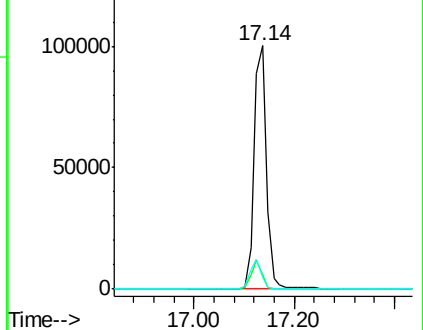
80 4.8 3.4 5.2

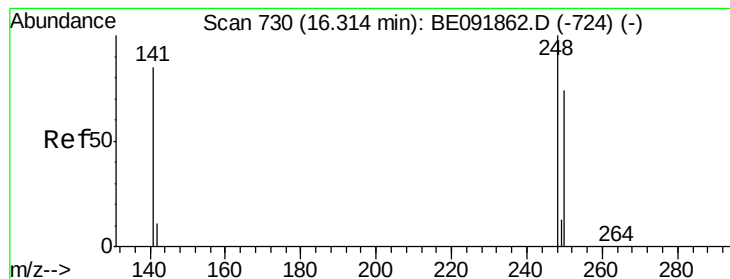


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#25

4-Bromophenyl-phenylether

Concen: 0.14 ng

RT: 16.31 min Scan# 730

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

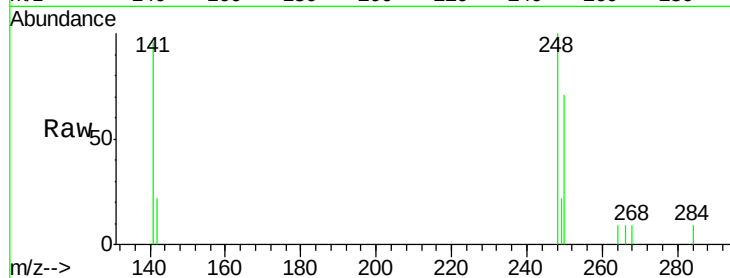
Tot Ion:248 Resp: 856

Ion Ratio Lower Upper

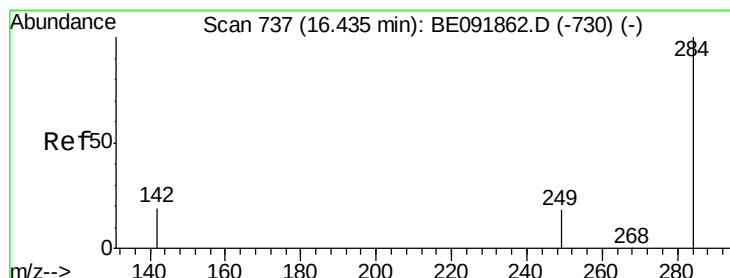
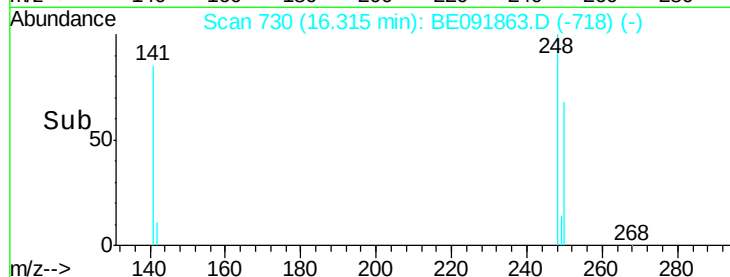
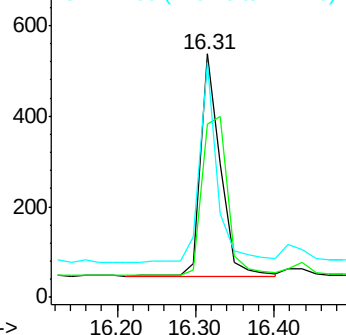
248 100

250 93.0 75.7 113.5

141 83.6 64.6 97.0



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E



#26

Hexachlorobenzene

Concen: 0.14 ng

RT: 16.44 min Scan# 737

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

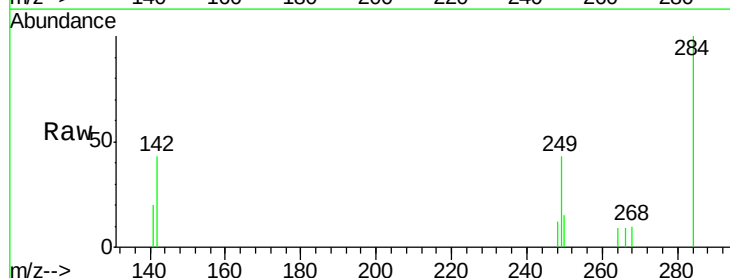
Tgt Ion:284 Resp: 820

Ion Ratio Lower Upper

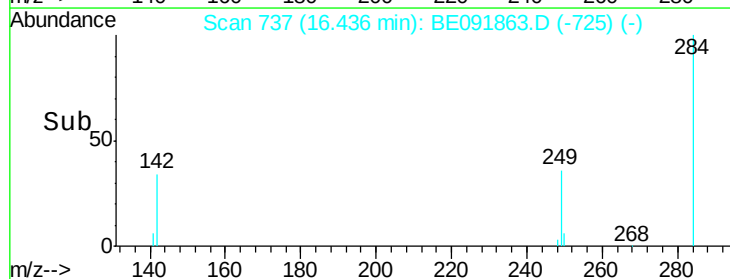
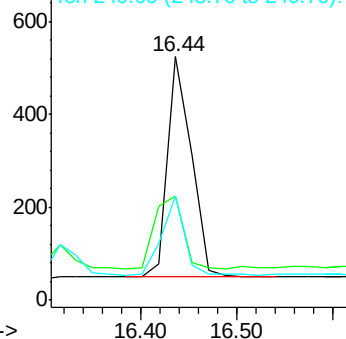
284 100

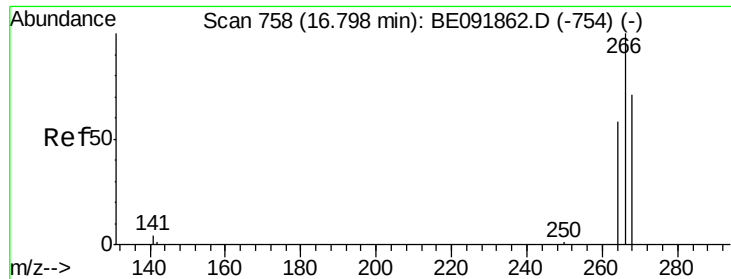
142 39.5 31.4 47.2

249 34.0 25.3 37.9



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





#27

Pentachlorophenol

Concen: 0.09 ng

RT: 16.80 min Scan# 758

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

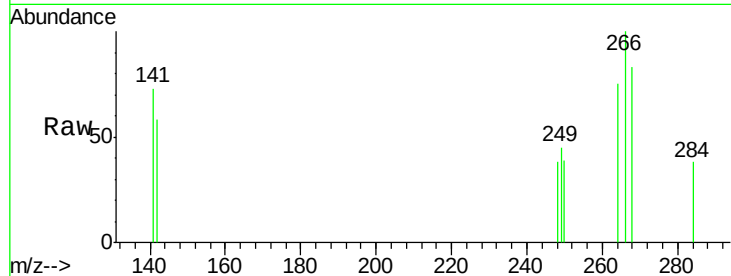
Tot Ion:266 Resp: 230

Ion Ratio Lower Upper

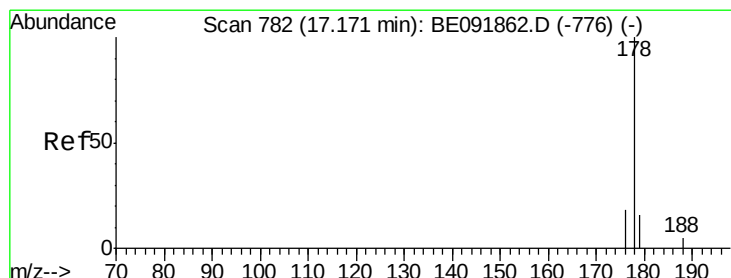
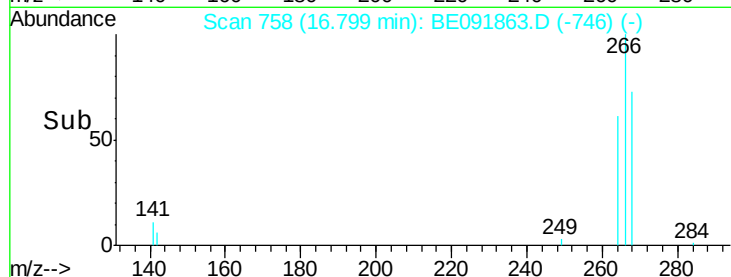
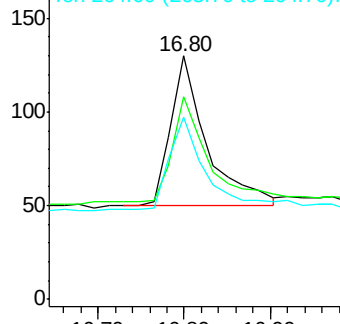
266 100

268 83.1 60.5 90.7

264 74.6 51.0 76.4



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



#28

Phenanthrene

Concen: 0.15 ng

RT: 17.17 min Scan# 782

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

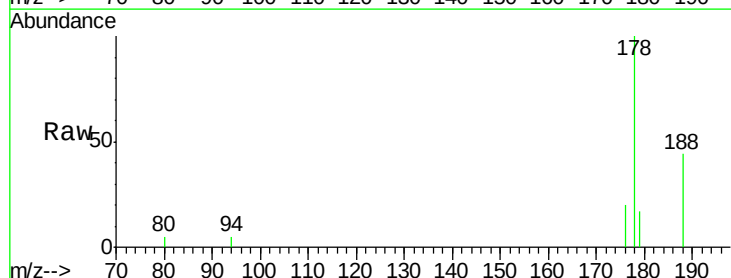
Tgt Ion:178 Resp: 5413

Ion Ratio Lower Upper

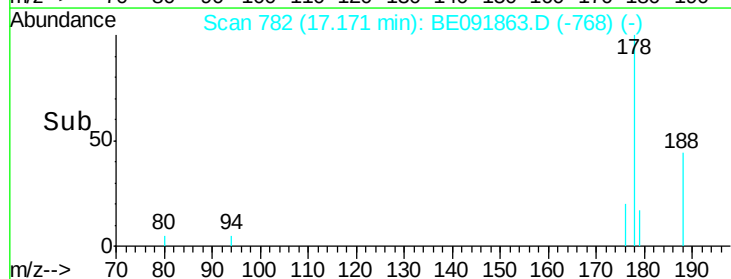
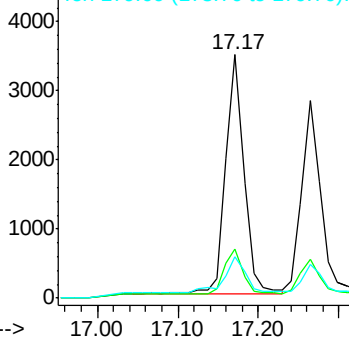
178 100

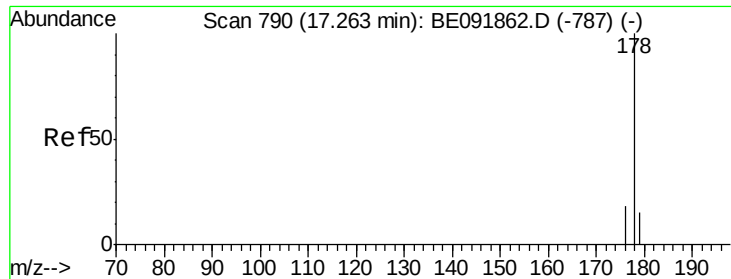
176 18.8 15.4 23.2

179 18.0 12.9 19.3



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





#29

Anthracene

Concen: 0.13 ng

RT: 17.26 min Scan# 790

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

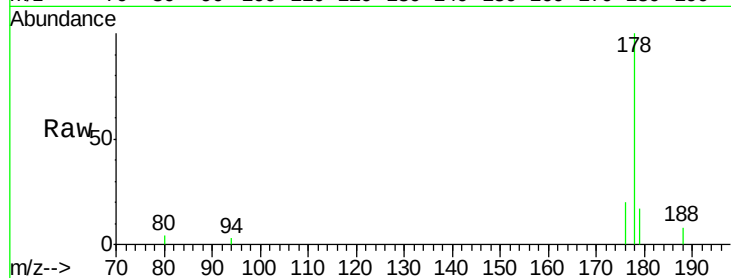
Tot Ion:178 Resp: 4614

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

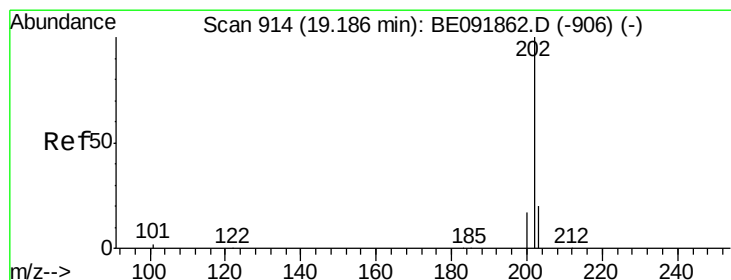
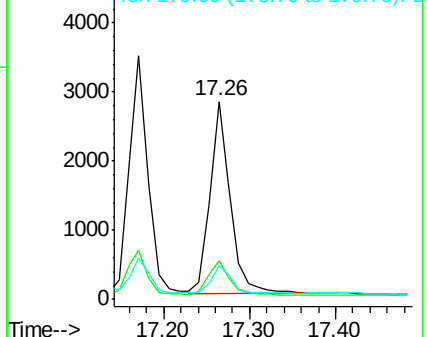
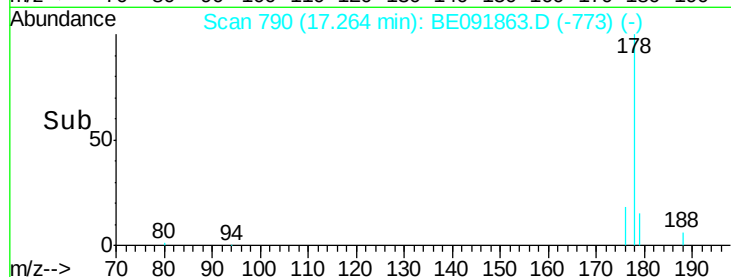
179 15.0 12.1 18.1



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



#30

Fluoranthene

Concen: 0.14 ng

RT: 19.19 min Scan# 914

Delta R.T. 0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

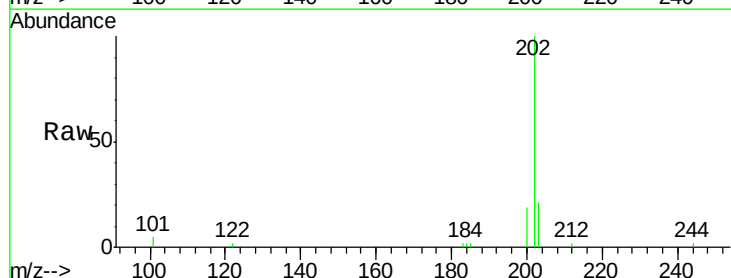
Tgt Ion:202 Resp: 6112

Ion Ratio Lower Upper

202 100

101 11.5 9.4 14.0

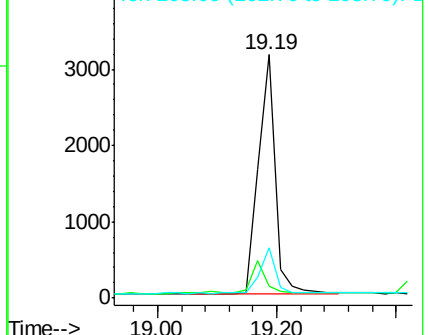
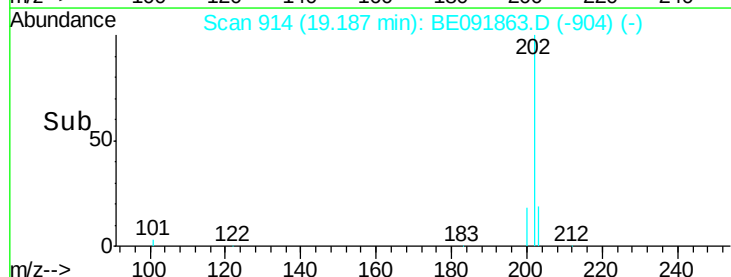
203 18.2 14.3 21.5

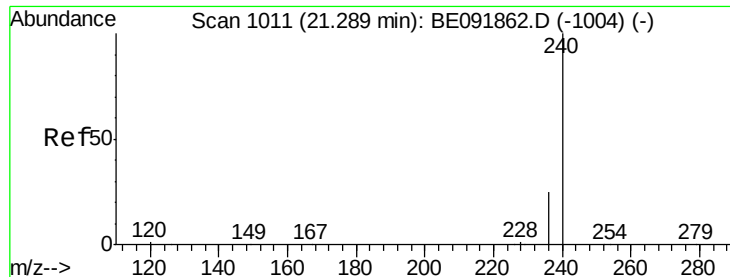


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

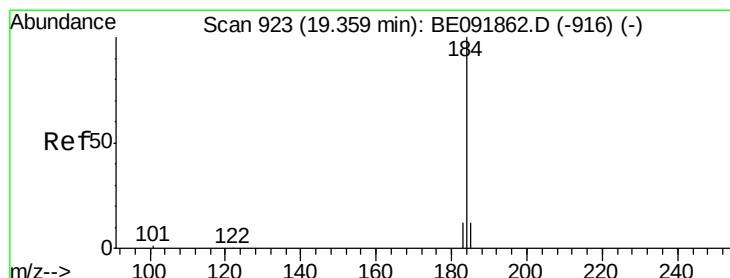
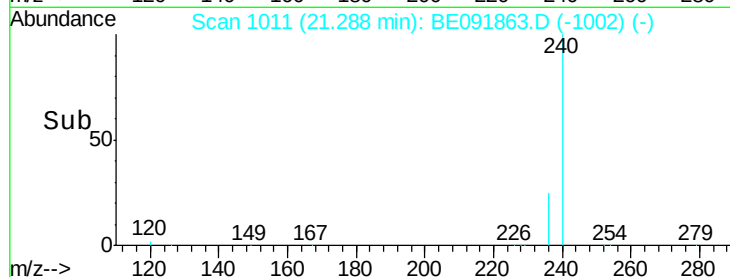
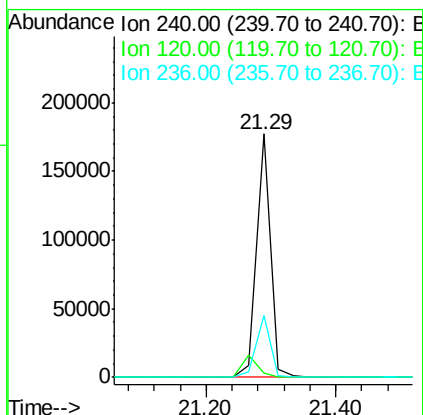
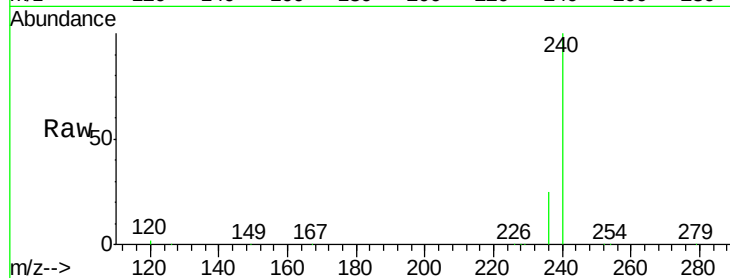




#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.29 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

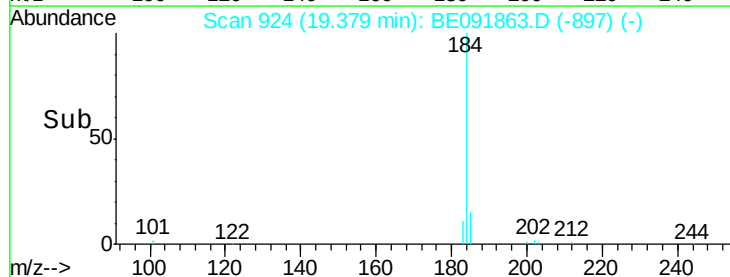
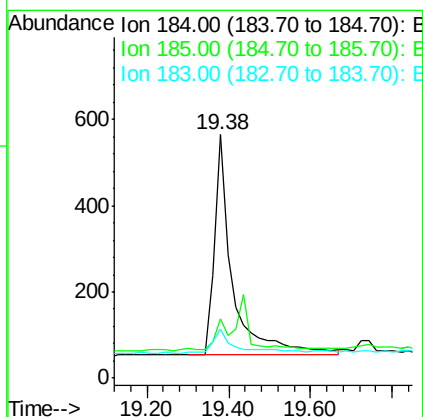
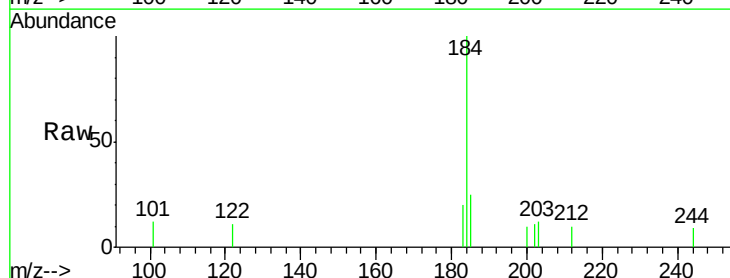
Instrument :
BNA_E
ClientSampleId :

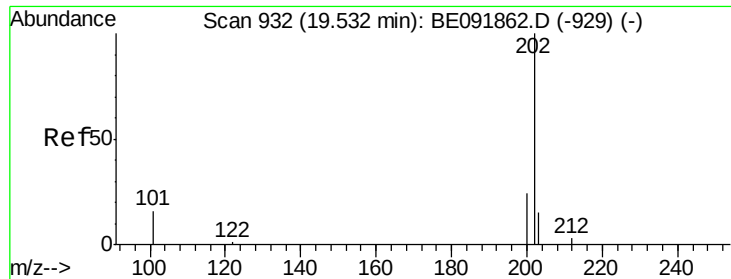
Tot Ion:240 Resp: 268651
Ion Ratio Lower Upper
240 100
120 1.6 1.2 1.8
236 25.3 19.8 29.8



#32
Benzidine
Concen: 0.08 ng
RT: 19.38 min Scan# 924
Delta R.T. 0.02 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion:184 Resp: 1620
Ion Ratio Lower Upper
184 100
185 24.6 11.4 17.2#
183 20.0 11.8 17.6#

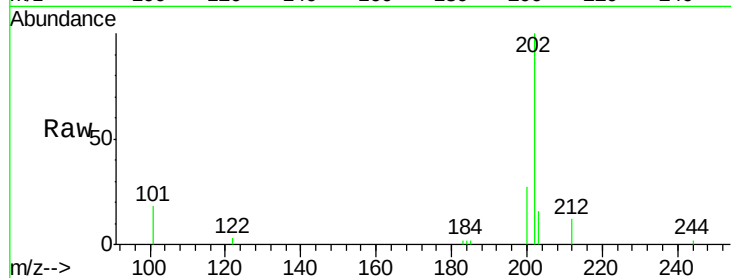




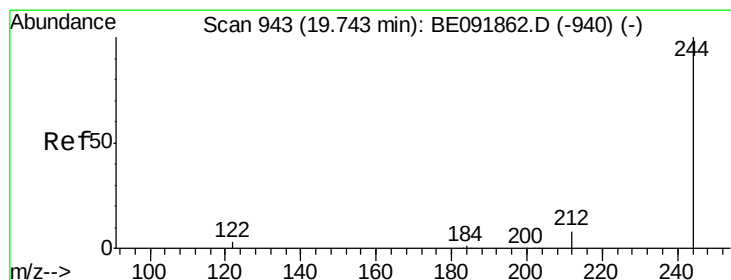
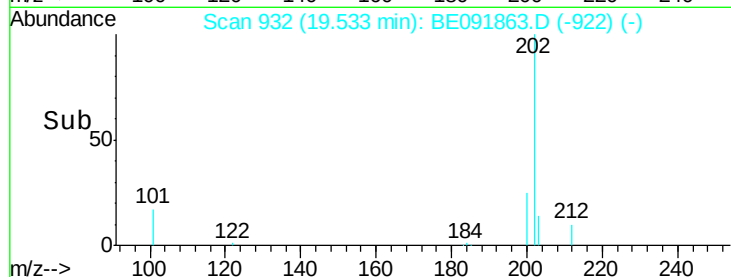
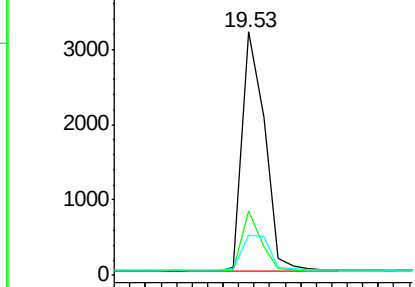
#33
Pvrene
Concen: 0.12 ng
RT: 19.53 min Scan# 932
Delta R.T. 0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 6404
Ion Ratio Lower Upper
202 100
200 21.9 16.9 25.3
203 18.2 14.1 21.1

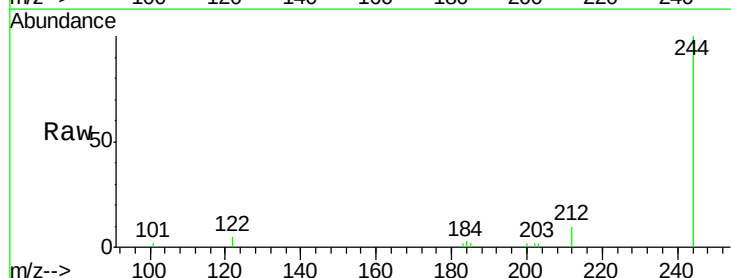


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

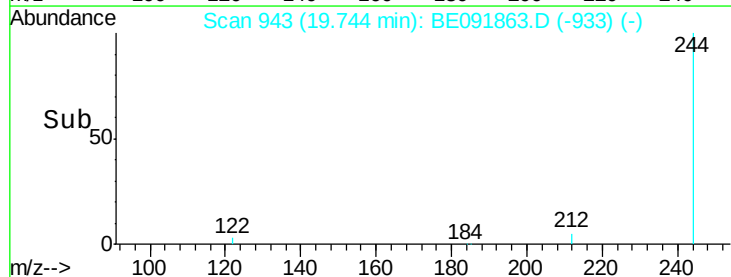
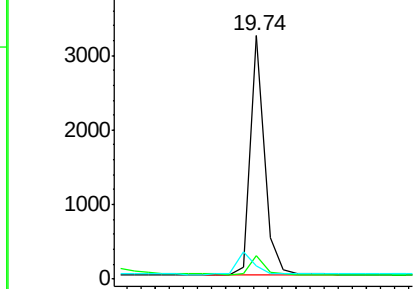


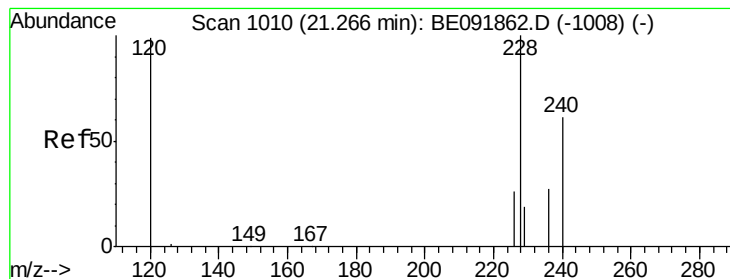
#34
Terphenyl-d14
Concen: 0.13 ng
RT: 19.74 min Scan# 943
Delta R.T. 0.00 min
Lab File: BE091863.D
Acq: 25 May 2016 17:54

Tgt Ion:244 Resp: 4605
Ion Ratio Lower Upper
244 100
212 9.5 6.5 9.7
122 5.5 2.9 4.3#



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





#35

Benzo(a)anthracene

Concen: 0.18 ng

RT: 21.27 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

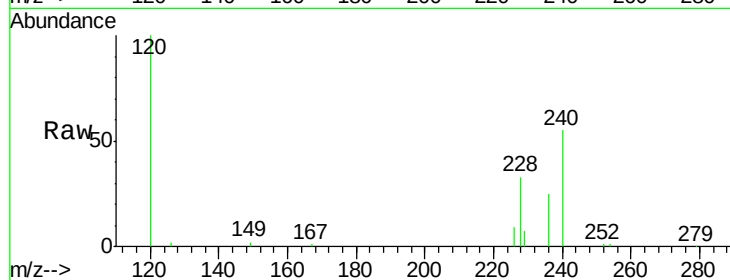
Tot Ion:228 Resp: 15768

Ion Ratio Lower Upper

228 100

226 27.1 21.0 31.4

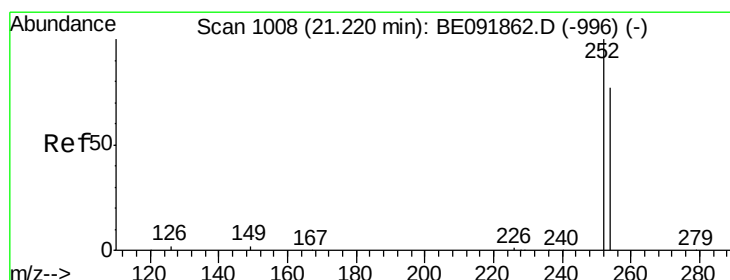
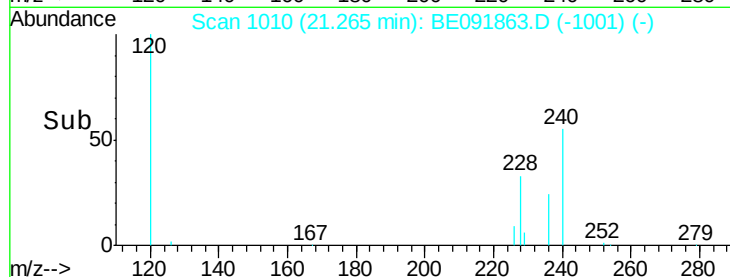
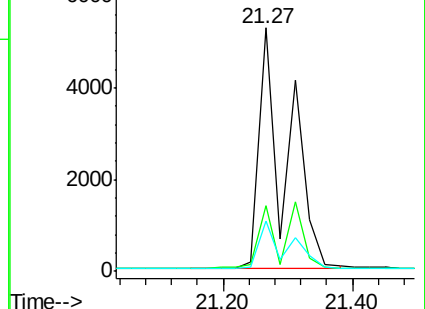
229 20.4 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#36

3,3'-Dichlorobenzidine

Concen: 0.14 ng

RT: 21.22 min Scan# 1008

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

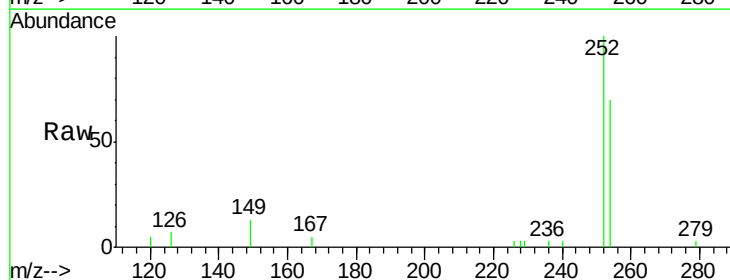
Tgt Ion:252 Resp: 4734

Ion Ratio Lower Upper

252 100

254 70.3 61.5 92.3

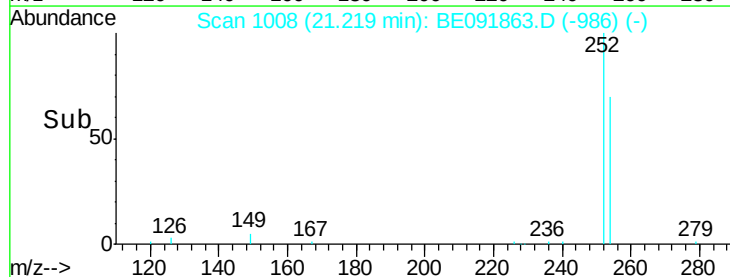
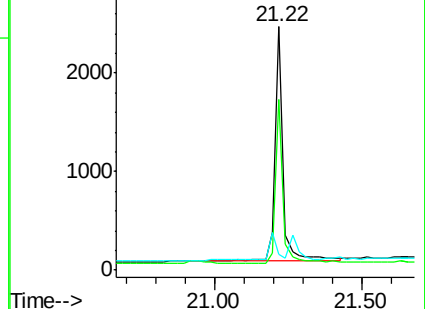
126 6.6 2.5 3.7#

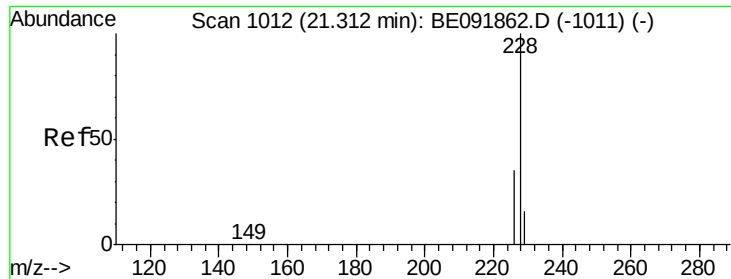


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

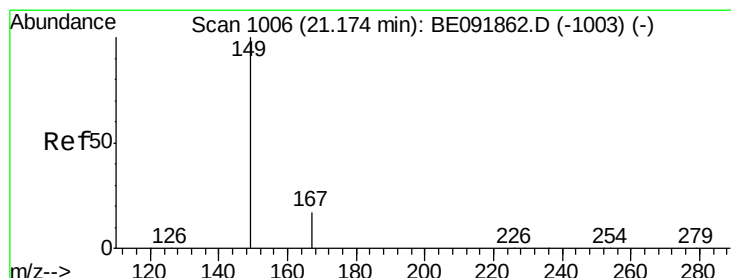
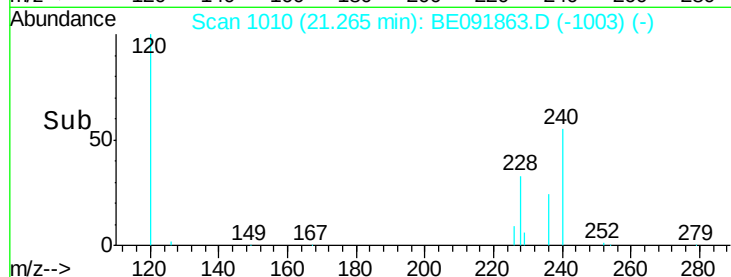
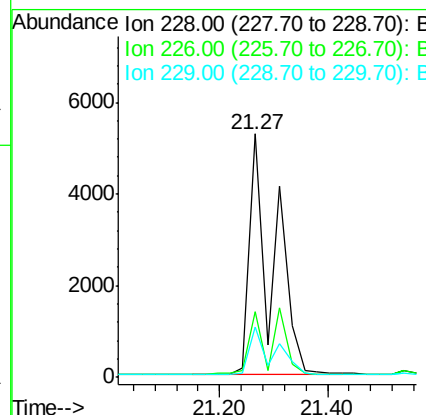
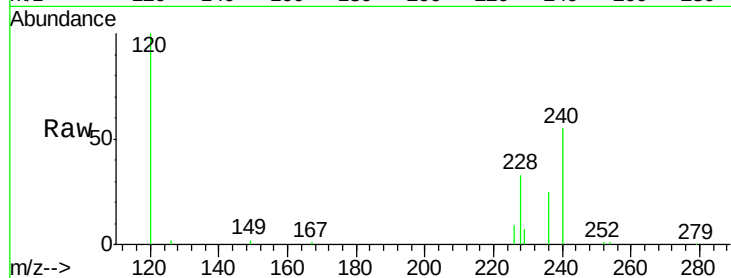




#37
 Chrysene
 Concen: 0.18 ng
 RT: 21.27 min Scan# 1010
 Delta R.T. -0.05 min
 Lab File: BE091863.D
 Acq: 25 May 2016 17:54

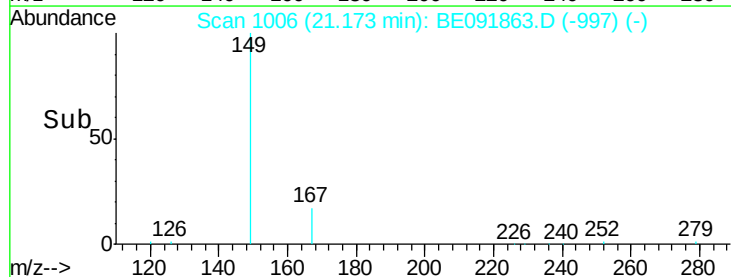
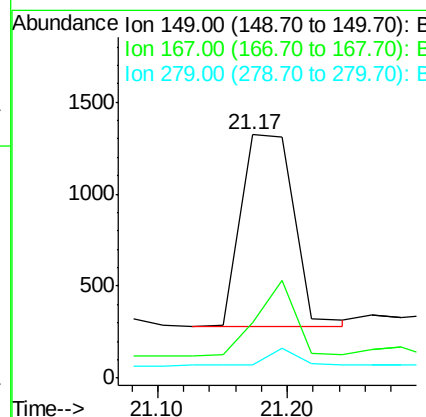
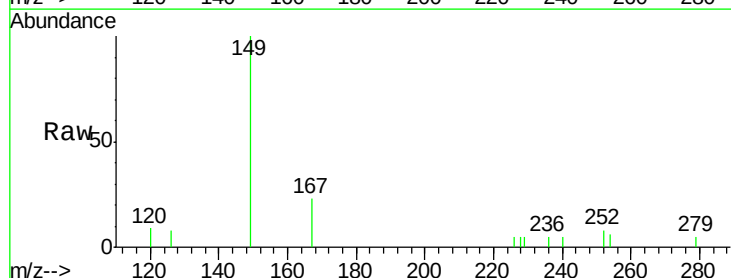
Instrument :
 BNA_E
 ClientSampleId :

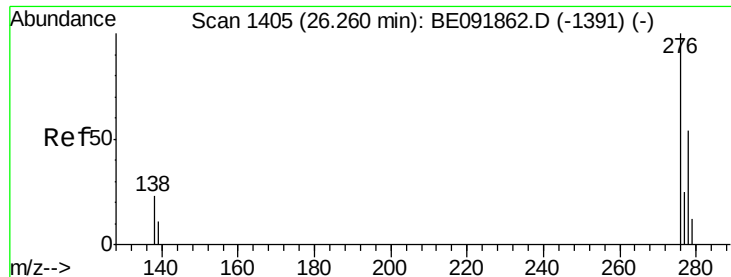
Tot Ion:228 Resp: 15849
 Ion Ratio Lower Upper
 228 100
 226 27.1 27.0 40.6
 229 20.4 13.8 20.8



#38
 Bis(2-ethylhexyl)phthalate
 Concen: 0.13 ng
 RT: 21.17 min Scan# 1006
 Delta R.T. -0.00 min
 Lab File: BE091863.D
 Acq: 25 May 2016 17:54

Tgt Ion:149 Resp: 2994
 Ion Ratio Lower Upper
 149 100
 167 0.0 0.0 0.0
 279 0.0 0.0 0.0





#39

Indeno(1,2,3-cd)pyrene

Concen: 0.13 ng

RT: 26.26 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

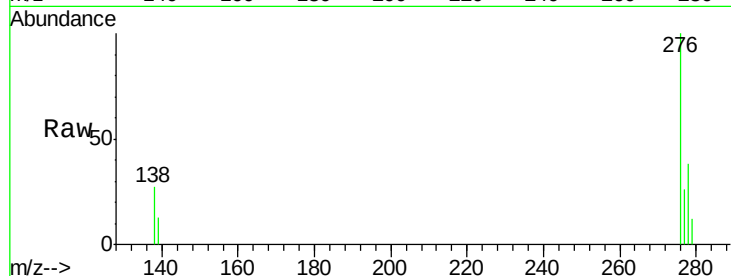
Tot Ion:276 Resp: 7663

Ion Ratio Lower Upper

276 100

138 25.2 19.7 29.5

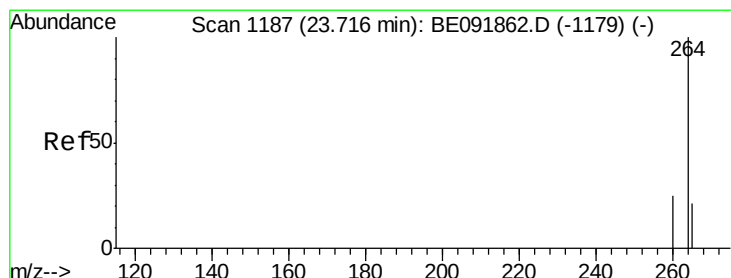
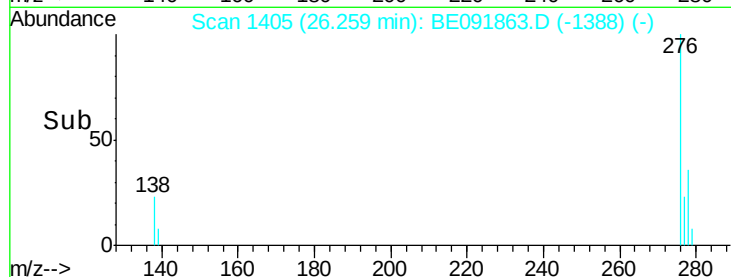
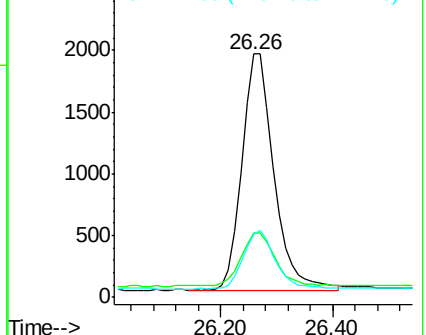
277 24.6 20.1 30.1



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

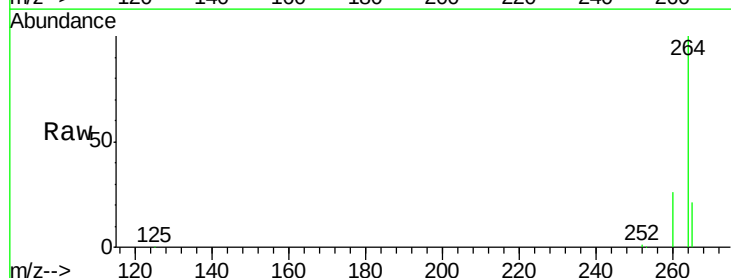
Tgt Ion:264 Resp: 231296

Ion Ratio Lower Upper

264 100

260 25.7 20.3 30.5

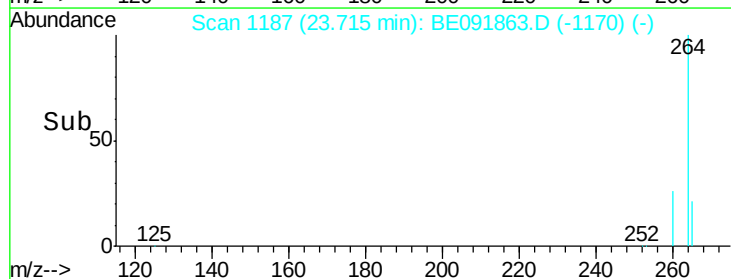
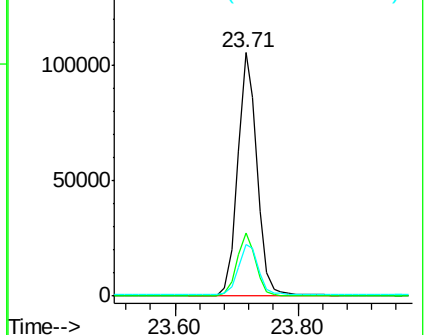
265 21.4 17.6 26.4

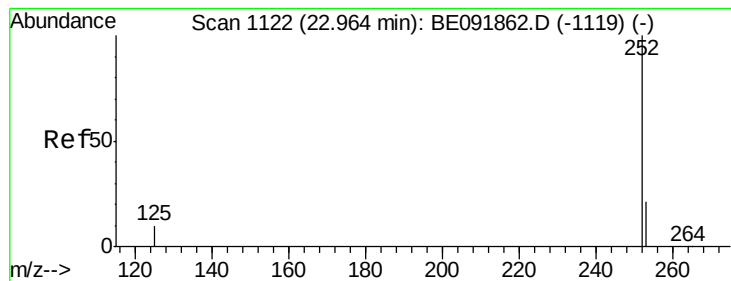


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 0.13 ng

RT: 22.97 min Scan# 1123

Delta R.T. 0.01 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

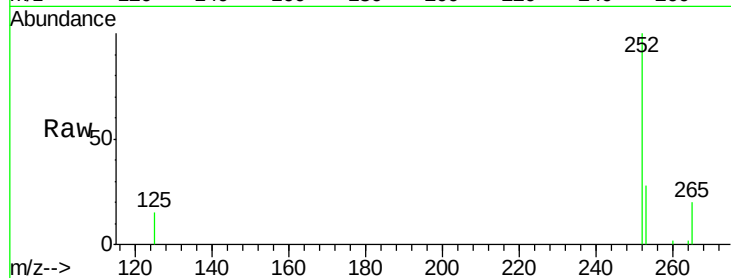
Tot Ion:252 Resp: 7461

Ion Ratio Lower Upper

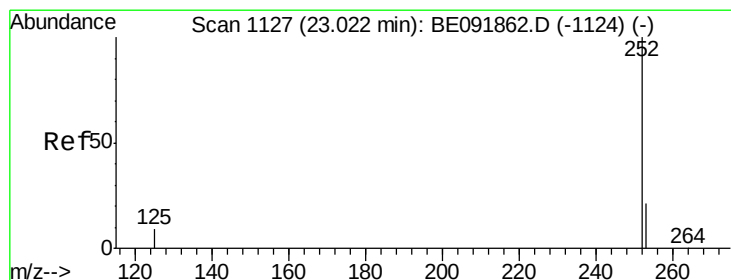
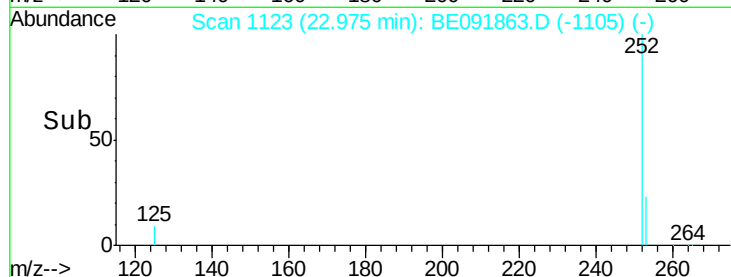
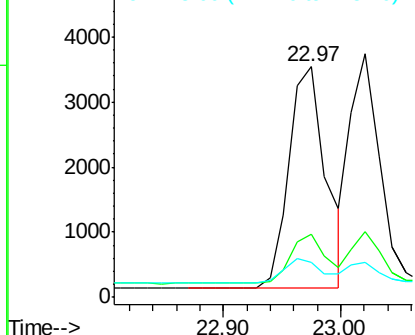
252 100

253 27.6 17.8 26.6#

125 14.9 9.4 14.2#



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



#42

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 23.02 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

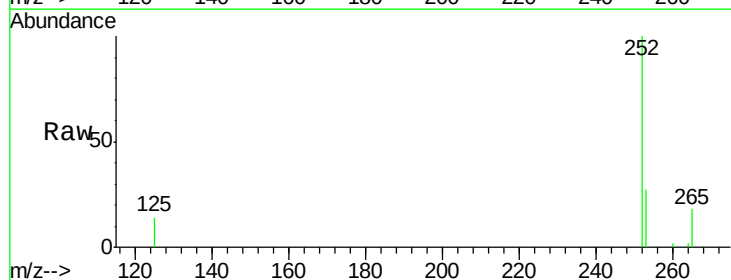
Tgt Ion:252 Resp: 6574

Ion Ratio Lower Upper

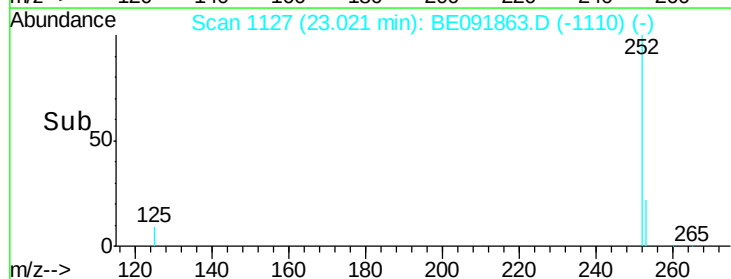
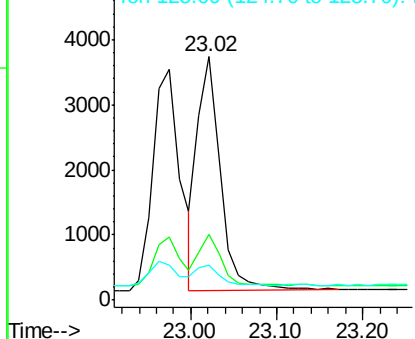
252 100

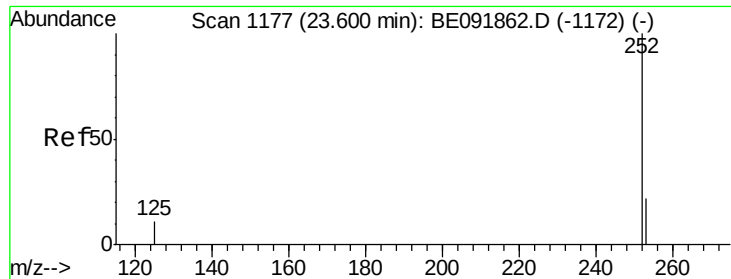
253 27.1 19.4 29.2

125 14.4 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





#43

Benzo(a)pyrene

Concen: 0.13 ng

RT: 23.60 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :

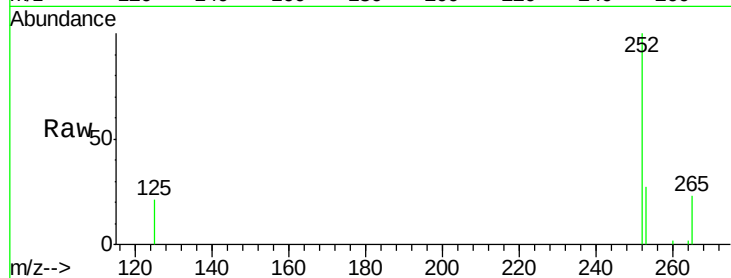
Tot Ion:252 Resp: 6601

Ion Ratio Lower Upper

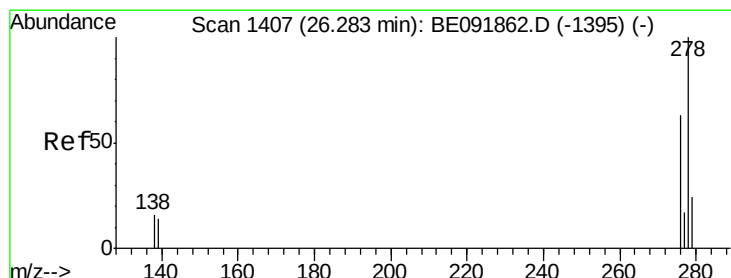
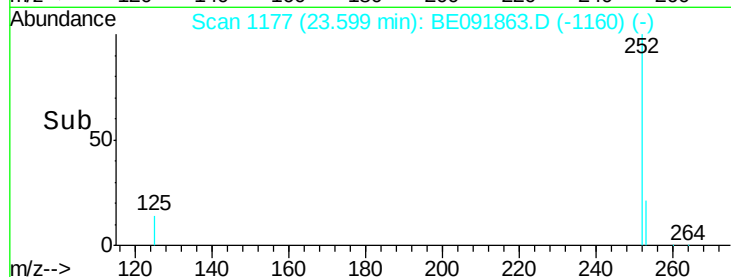
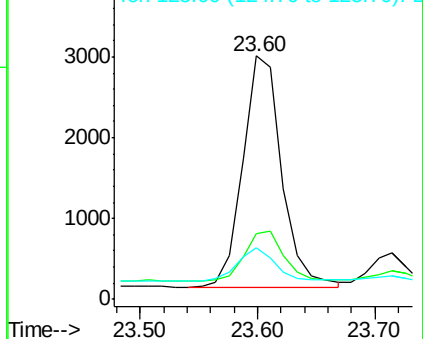
252 100

253 27.2 18.9 28.3

125 20.9 10.5 15.7#



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



#44

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 26.29 min Scan# 1408

Delta R.T. 0.01 min

Lab File: BE091863.D

Acq: 25 May 2016 17:54

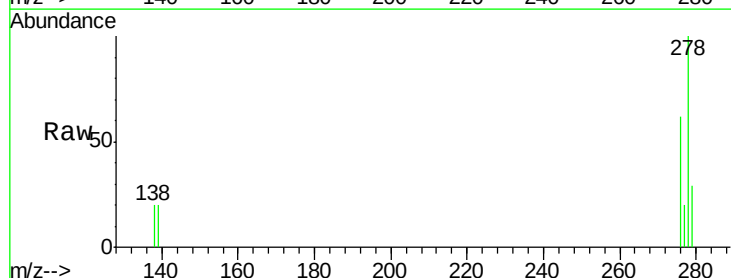
Tgt Ion:278 Resp: 6258

Ion Ratio Lower Upper

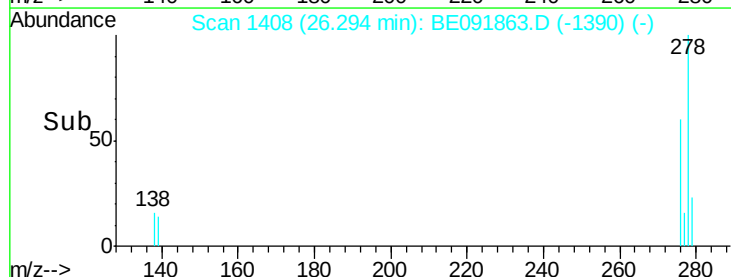
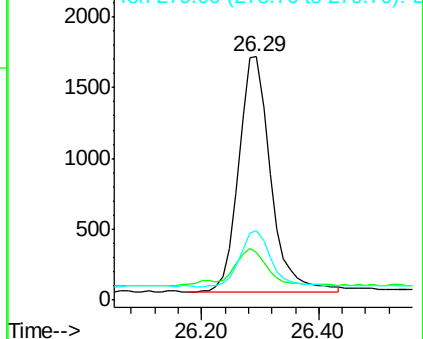
278 100

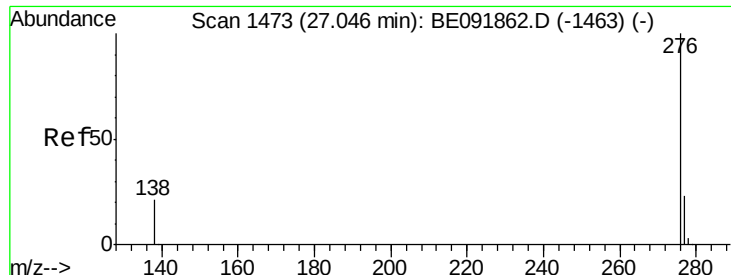
139 19.8 12.6 18.8#

279 28.5 20.0 30.0



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





#45

Benzo(a,h,i)perylene

Concen: 0.13 ng

RT: 27.05 min Scan# 1473

Delta R.T. -0.00 min

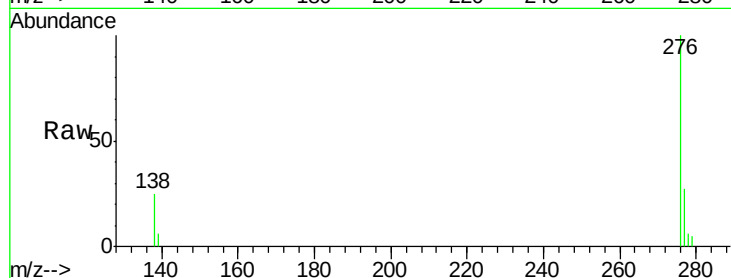
Lab File: BE091863.D

Acq: 25 May 2016 17:54

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 6507

Ion Ratio Lower Upper

276 100

277 27.3 19.5 29.3

138 25.2 17.7 26.5

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

