

Data Path : Z:\HPCHEM1\BNA_E\Data\BE061616\
 Data File : BE091937.D
 Acq On : 16 Jun 2016 13:48
 Operator : UM/SJ
 Sample : H3559-01MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OM-SPN-001-160531MSD

Quant Time: Jun 16 17:34:53 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 15 12:00:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	30815	5.00	ng	0.00
8) Naphthalene-d8	10.99	136	139844	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	114433	5.00	ng	0.00
24) Phenanthrene-d10	17.59	188	226361	5.00	ng	-0.01
31) Chrysene-d12	21.76	240	372634	5.00	ng	0.00
40) Perylene-d12	24.16	264	271205	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.72	112	42409	7.04	ng	0.00
5) Phenol-d6	7.37	99	62742	6.37	ng	0.02
9) Nitrobenzene-d5	9.37	82	36657	3.80	ng	0.00
16) 2,4,6-Tribromophenol	16.35	330	21738	7.31	ng	0.00
17) 2-Fluorobiphenyl	13.48	172	90860	3.13	ng	0.00
34) Terphenyl-d14	20.22	244	146264	3.21	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.47	88	11083	2.55	ng	98
3) n-Nitrosodimethylamine	3.82	42	17345	3.51	ng	96
6) bis(2-Chloroethyl)ether	7.61	93	31599	3.58	ng	98
7) n-Nitroso-di-n-propylamine	9.00	70	27928	3.34	ng	# 98
10) Nitrobenzene	9.40	77	38237	3.50	ng	# 99
11) bis(2-Chloroethoxy)methane	10.42	93	42468	3.47	ng	# 19
12) Naphthalene	11.04	128	105561	3.46	ng	# 94
13) Hexachlorobutadiene	11.34	225	16660	3.37	ng	99
14) 2-Methylnaphthalene	12.68	142	78424	3.79	ng	97
18) Acenaphthylene	14.56	152	417476	3.59	ng	# 61
19) 2,6-Dinitrotoluene	14.44	165	84491	3.40	ng	# 37
20) Acenaphthene	14.92	154	106123	3.32	ng	# 1
21) 2,4-Dinitrotoluene	15.22	165	97357	4.27	ng	# 72
22) Fluorene	15.90	166	110199	3.46	ng	99
23) 4-Chlorophenyl-phenylether	15.90	204	51466	3.28	ng	97
25) 4-Bromophenyl-phenylether	16.78	248	32070	3.66	ng	99
26) Hexachlorobenzene	16.90	284	31448	3.50	ng	98
27) Pentachlorophenol	17.25	266	31799	6.62	ng	# 88
28) Phenanthrene	17.64	178	197157	3.48	ng	99
29) Anthracene	17.73	178	189513	3.78	ng	100
30) Fluoranthene	19.65	202	881149	3.64	ng	# 87
32) Benzidine	19.86	184	944	0.16	ng	# 8
33) Pyrene	19.99	202	911158	3.59	ng	# 64
35) Benzo(a)anthracene	21.73	228	272264	4.65	ng	# 90
36) 3,3'-Dichlorobenzidine	21.67	252	41646	4.39	ng	# 64
37) Chrysene	21.73	228	272307	3.18	ng	97
38) Bis(2-ethylhexyl)phthalate	21.64	149	308613	5.06	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.68	276	1071832	3.66	ng	98
41) Benzo(b)fluoranthene	23.42	252	253475	3.64	ng	98
42) Benzo(k)fluoranthene	23.47	252	254002	3.99	ng	96
43) Benzo(a)pyrene	24.06	252	238808	3.93	ng	# 97
44) Dibenzo(a,h)anthracene	26.70	278	222941	3.77	ng	98
45) Benzo(g,h,i)perylene	27.45	276	910830	3.73	ng	98

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QLast Update : Wed Jun 15 12:00:38 2016
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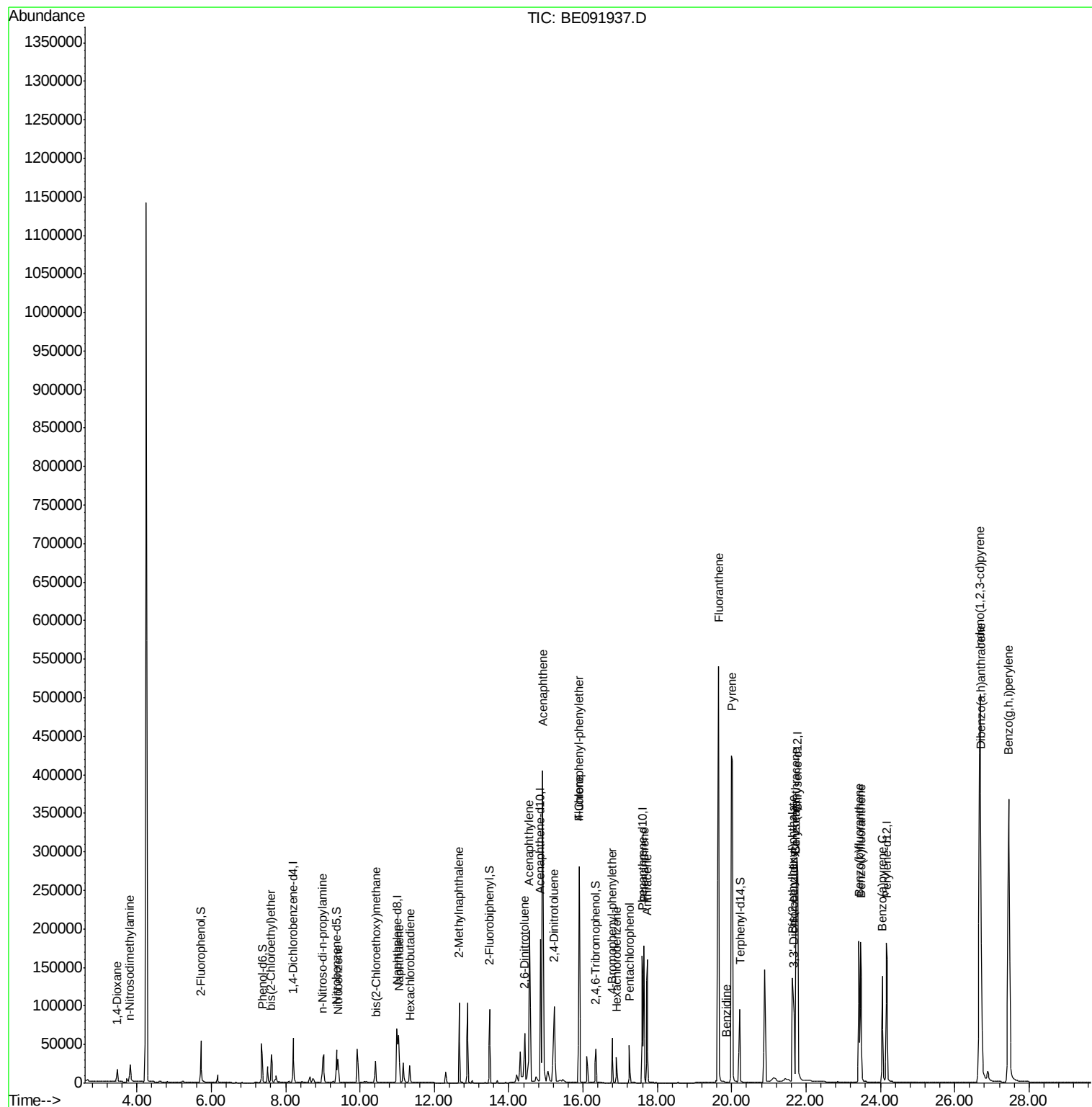
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

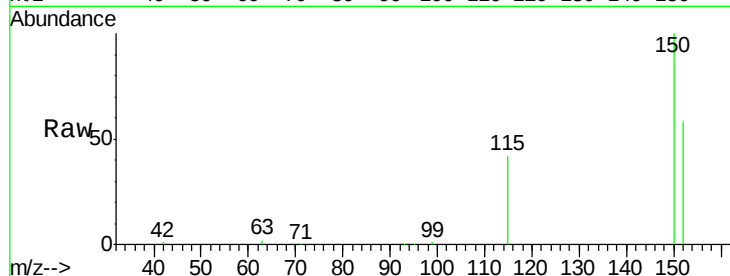
Tgt Ion:152 Resp: 30815

Ion Ratio Lower Upper

152 100

150 172.4 123.9 185.9

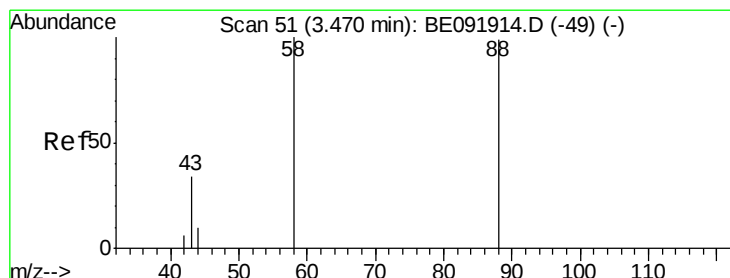
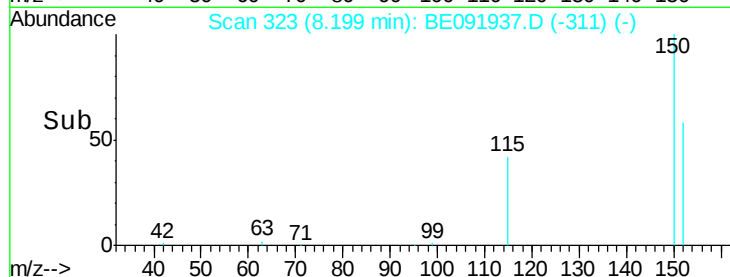
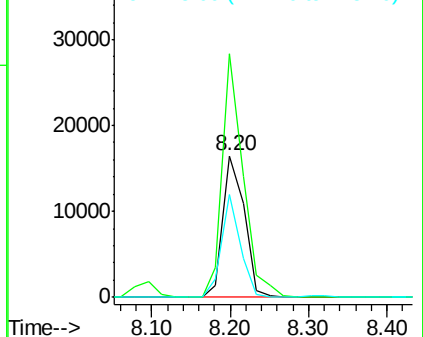
115 73.0 48.3 72.5#



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: 2.55 ng

RT: 3.47 min Scan# 51

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

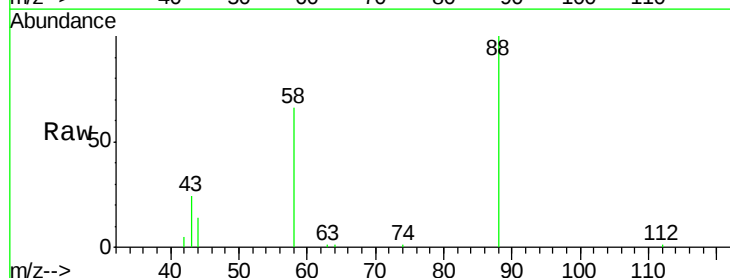
Tgt Ion: 88 Resp: 11083

Ion Ratio Lower Upper

88 100

58 81.1 63.0 94.4

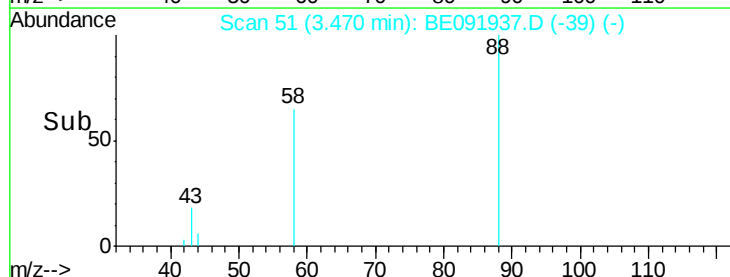
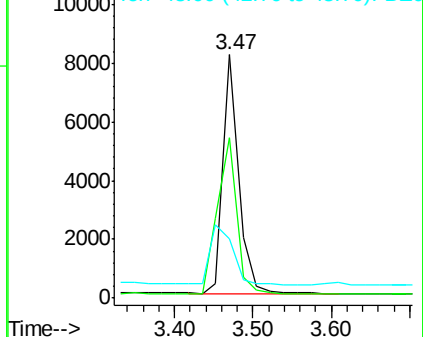
43 36.5 29.1 43.7



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: 3.51 ng

RT: 3.82 min Scan# 71

Delta R.T. 0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

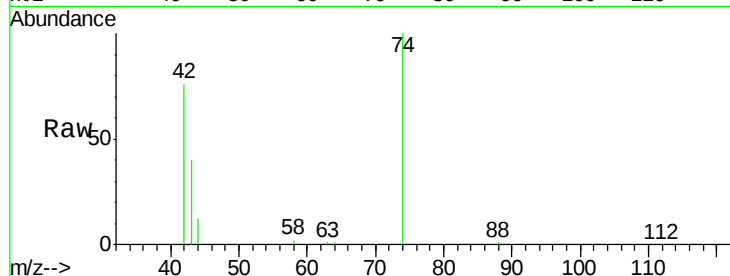
Tgt Ion: 42 Resp: 17345

Ion Ratio Lower Upper

42 100

74 111.6 93.4 140.0

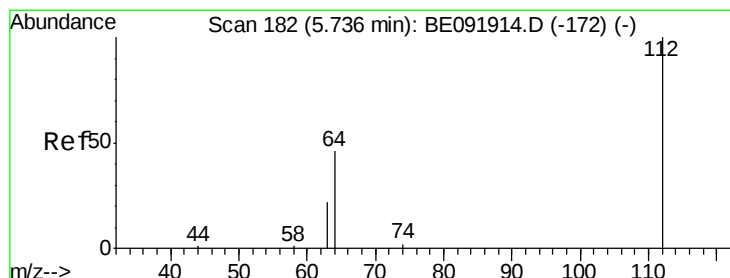
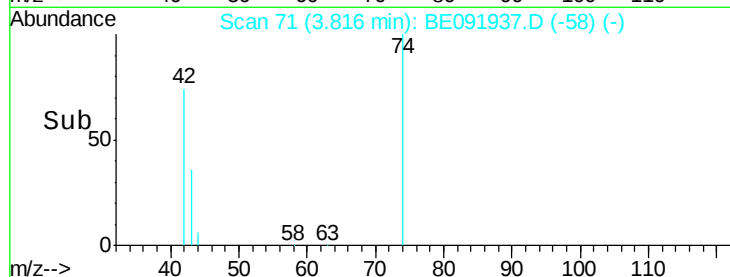
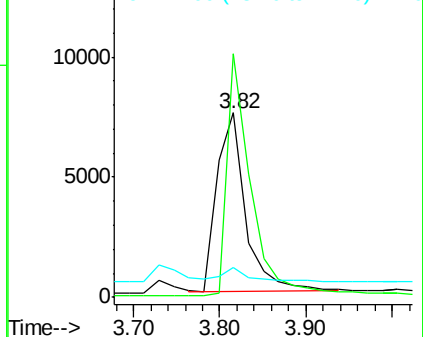
44 6.9 5.0 7.6



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

2-Fluorophenol

Concen: 7.04 ng

RT: 5.72 min Scan# 181

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

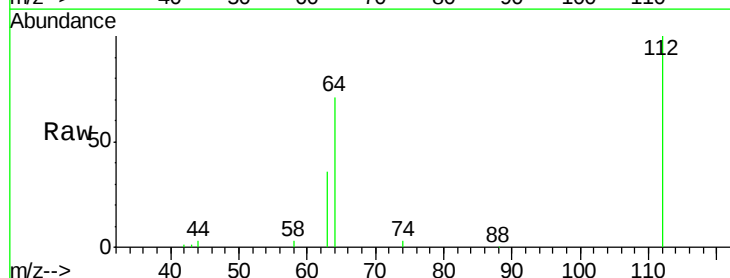
Tgt Ion: 112 Resp: 42409

Ion Ratio Lower Upper

112 100

64 67.5 53.7 80.5

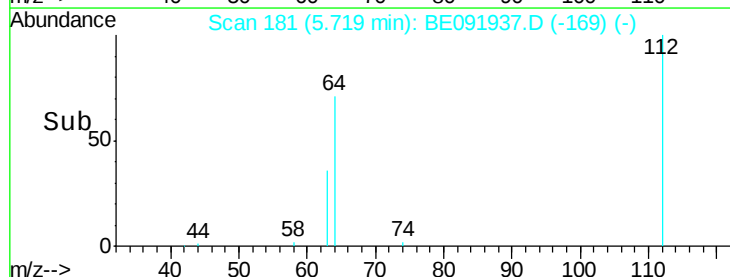
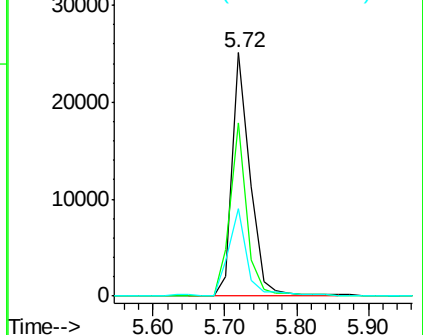
63 37.0 29.5 44.3

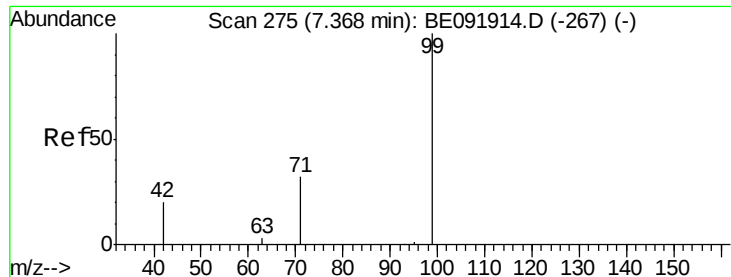


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 6.37 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

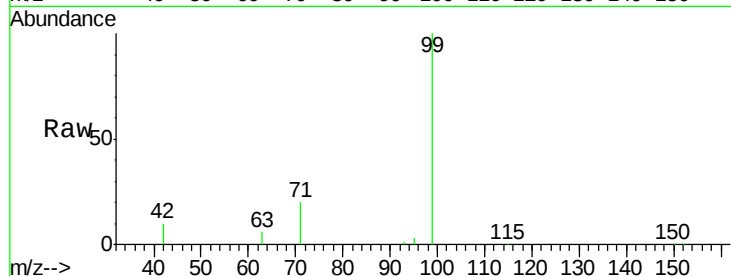
Tgt Ion: 99 Resp: 62742

Ion Ratio Lower Upper

99 100

42 25.9 19.6 29.4

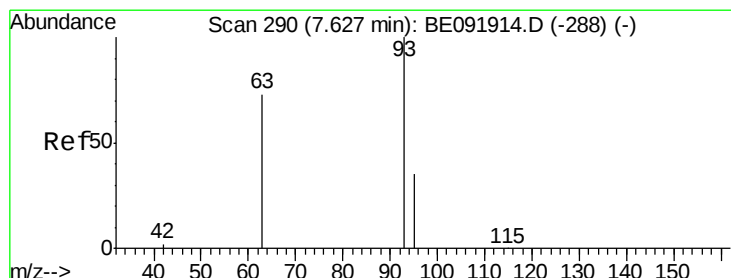
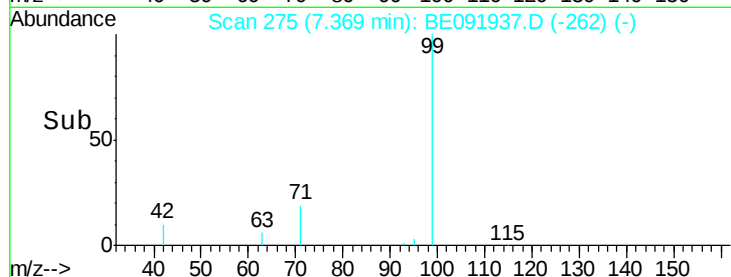
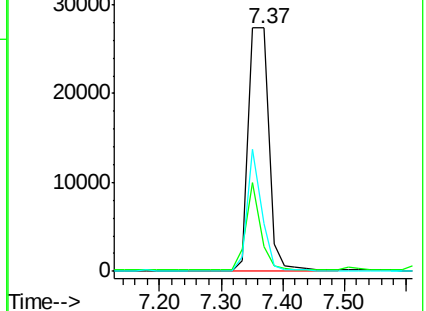
71 35.8 28.1 42.1



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

bis(2-Chloroethyl)ether

Concen: 3.58 ng

RT: 7.61 min Scan# 289

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

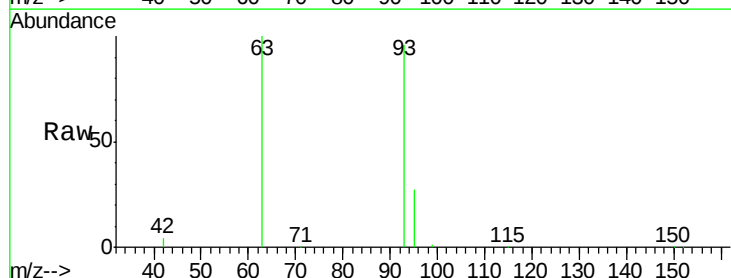
Tgt Ion: 93 Resp: 31599

Ion Ratio Lower Upper

93 100

63 84.6 66.2 99.4

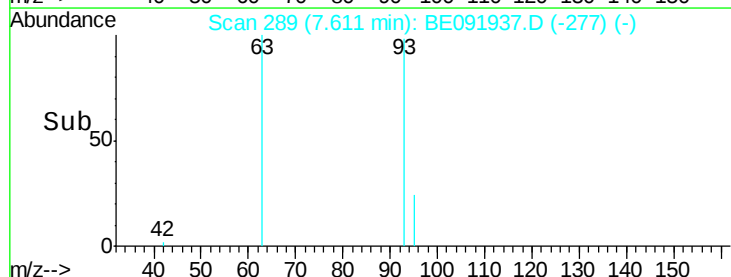
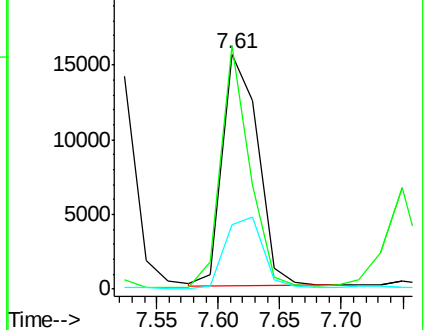
95 32.6 25.5 38.3

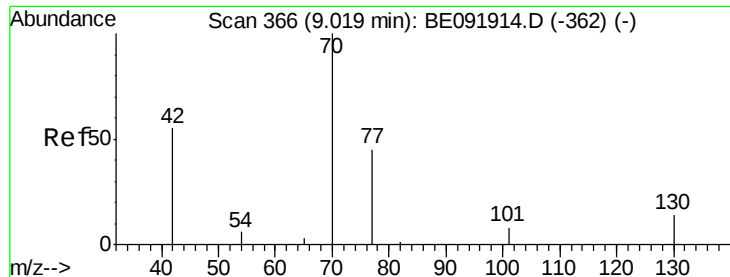


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 3.34 ng

RT: 9.00 min Scan# 365

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

Tgt Ion: 70 Resp: 27928

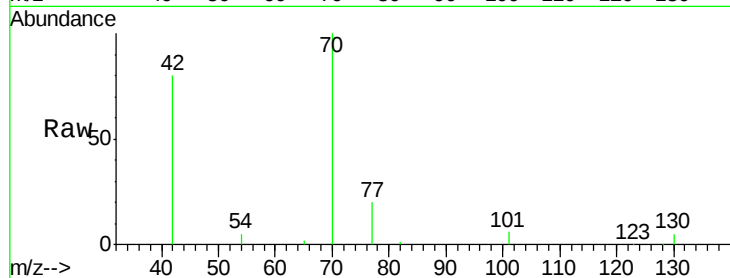
Ion Ratio Lower Upper

70 100

42 74.6 58.4 87.6

101 8.4 6.4 9.6

130 17.2 0.0 0.0#

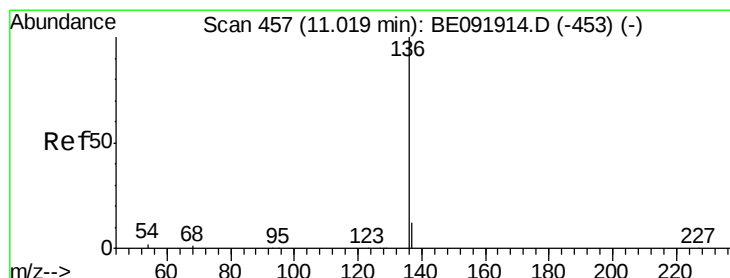
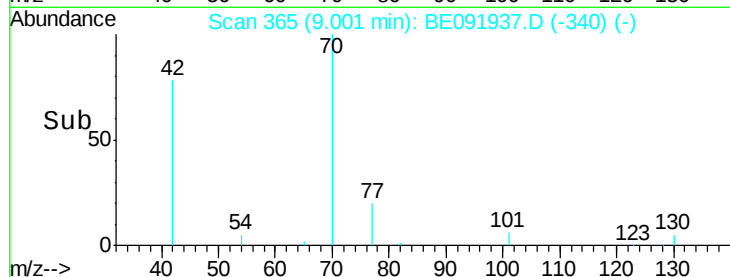
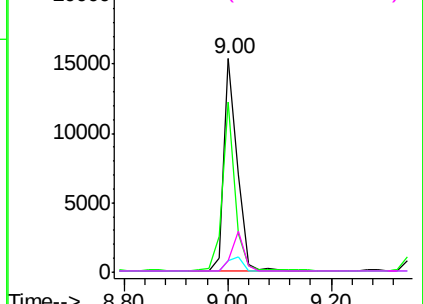


Abundance Ion 70.00 (69.70 to 70.70): BE0

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: 10.99 min Scan# 456

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion: 136 Resp: 139844

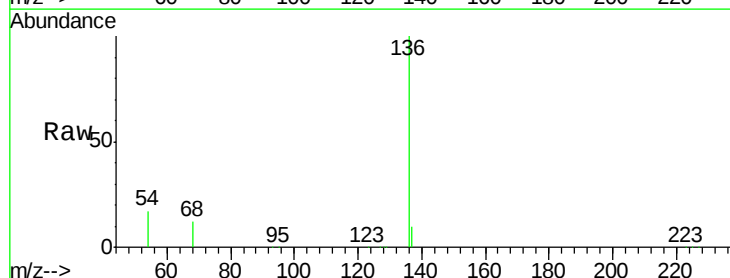
Ion Ratio Lower Upper

136 100

137 9.6 8.3 12.5

54 16.9 8.2 12.4#

68 11.8 5.9 8.9#

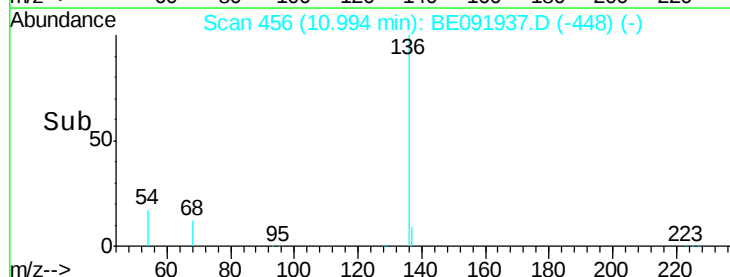
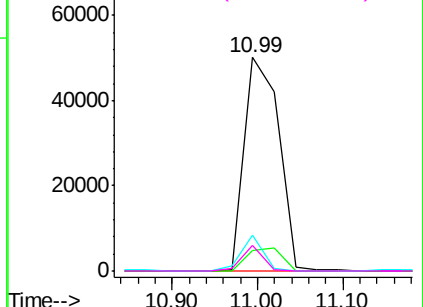


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.80 ng

RT: 9.37 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE091937.D

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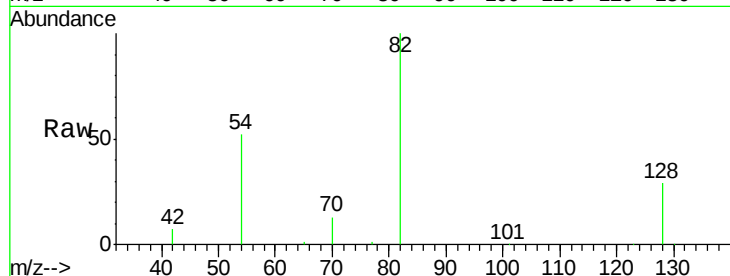
Tgt Ion: 82 Resp: 36657

Ion Ratio Lower Upper

82 100

128 29.4 39.5 59.3#

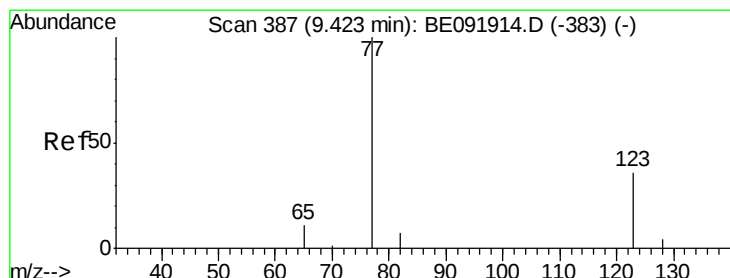
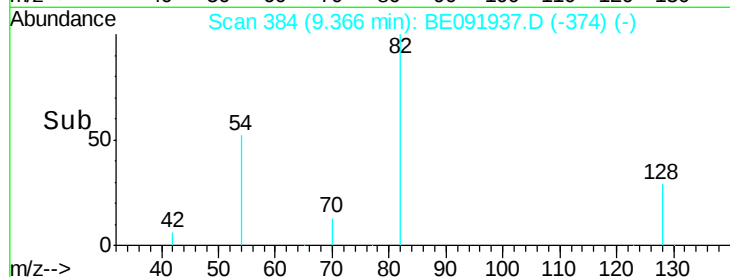
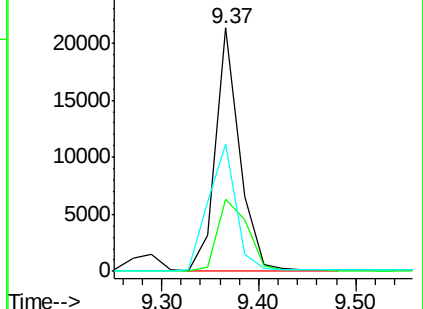
54 52.1 30.3 45.5#



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: 3.50 ng

RT: 9.40 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

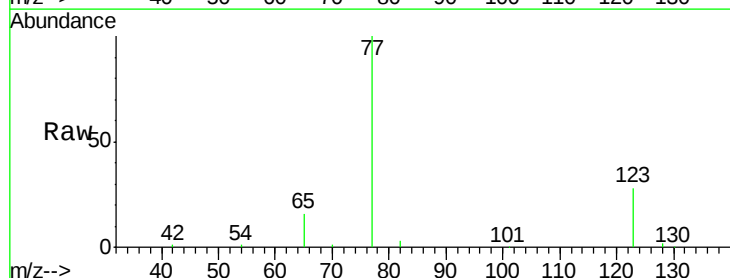
Tgt Ion: 77 Resp: 38237

Ion Ratio Lower Upper

77 100

123 38.6 0.0 0.0#

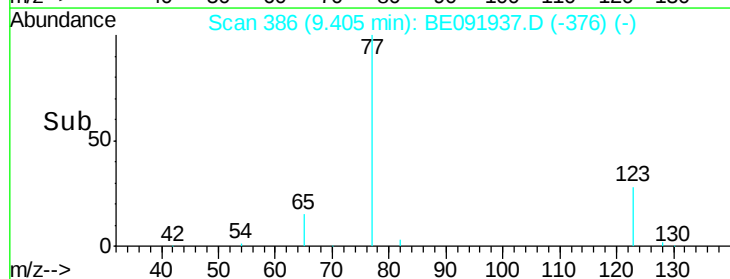
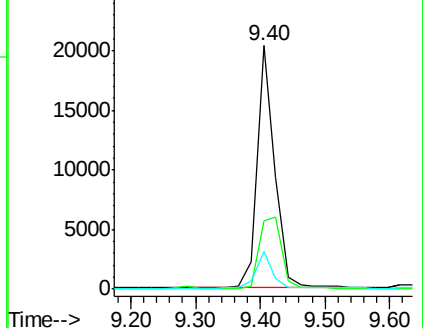
65 14.3 11.1 16.7

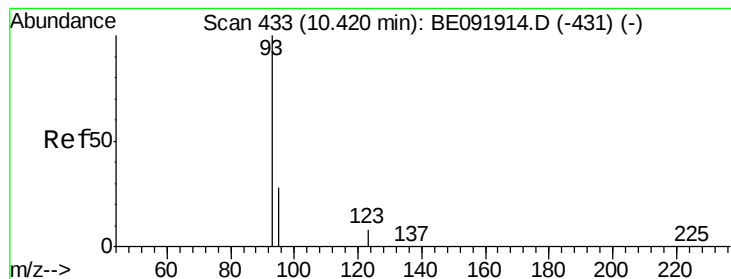


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#11

bis(2-Chloroethoxy)methane

Concen: 3.47 ng

RT: 10.42 min Scan# 433

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

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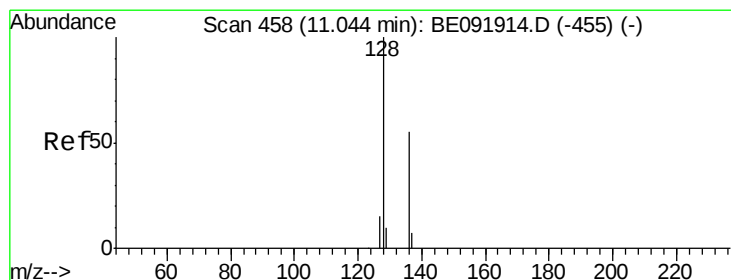
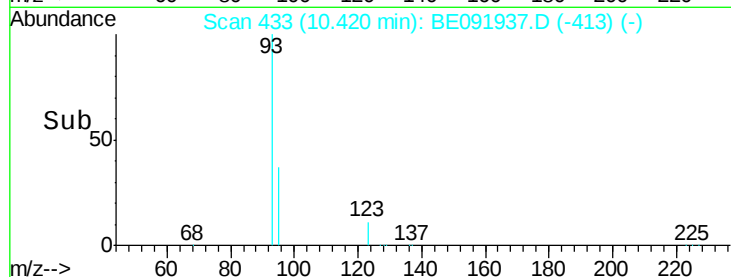
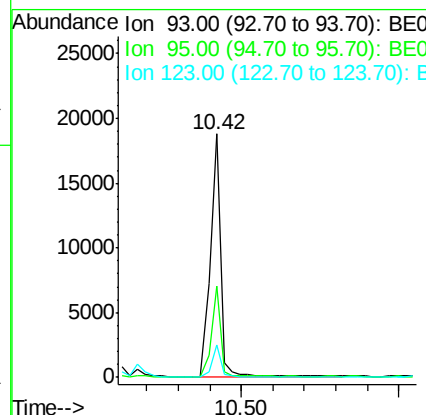
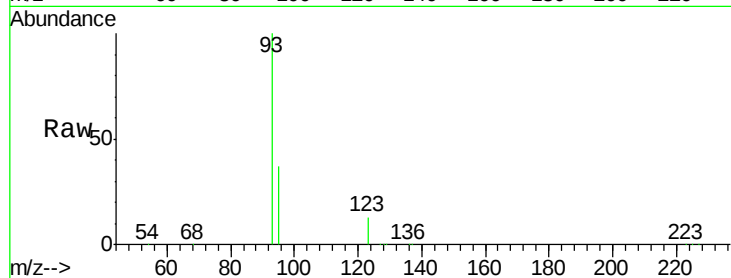
Tgt Ion: 93 Resp: 42468

Ion Ratio Lower Upper

93 100

95 33.1 57.6 86.4#

123 10.6 100.2 150.4#



#12

Naphthalene

Concen: 3.46 ng

RT: 11.04 min Scan# 458

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

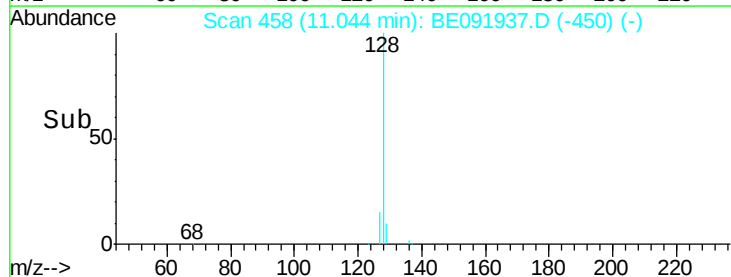
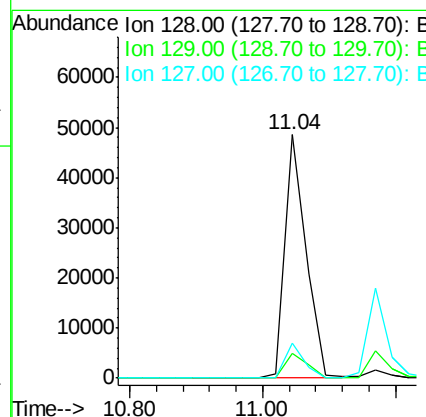
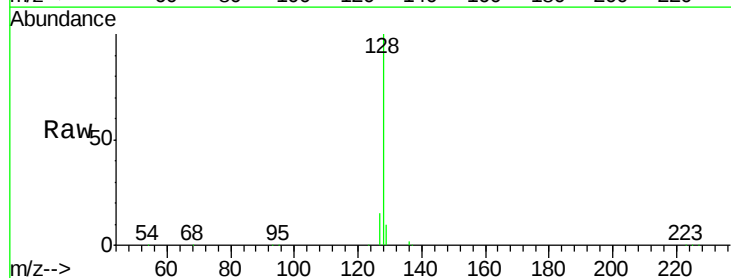
Tgt Ion: 128 Resp: 105561

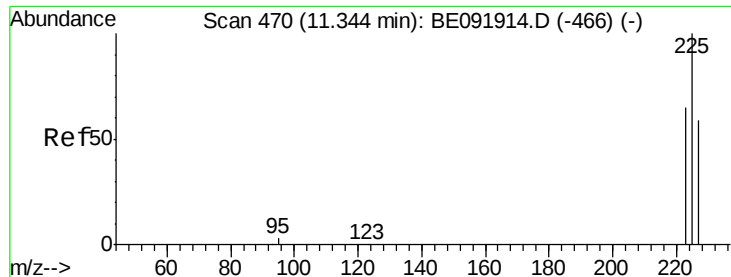
Ion Ratio Lower Upper

128 100

129 10.1 10.4 15.6#

127 14.6 10.2 15.2

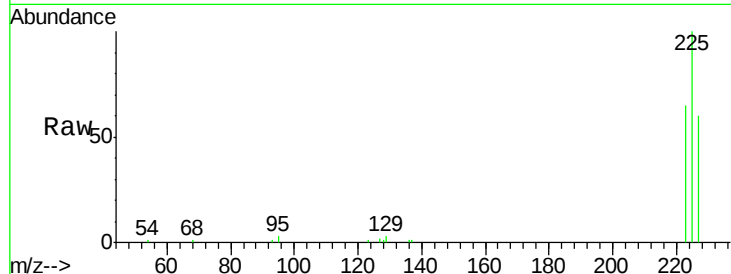




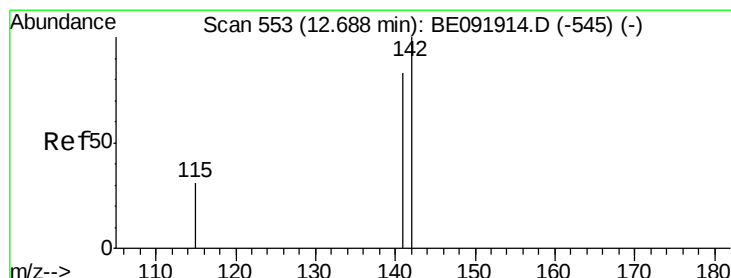
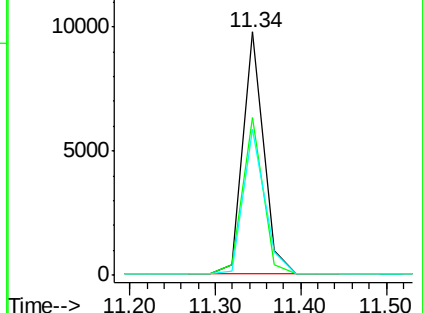
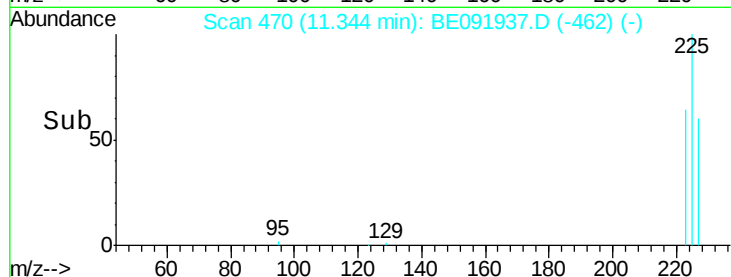
#13
Hexachlorobutadiene
Concen: 3.37 ng
RT: 11.34 min Scan# 470
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Instrument :
BNA_F
ClientSampleId :
OM-SPN-001-160531MSD

Tgt Ion: 225 Resp: 16660
Ion Ratio Lower Upper
225 100
223 63.7 49.8 74.8
227 62.4 50.6 75.8

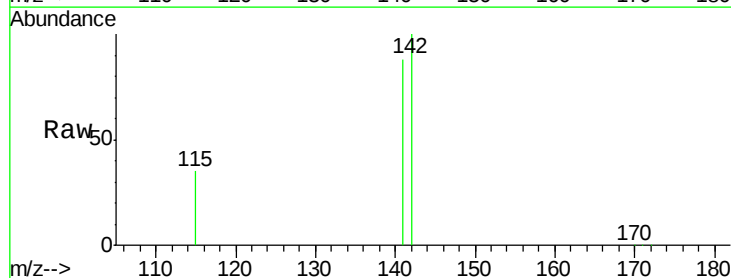


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

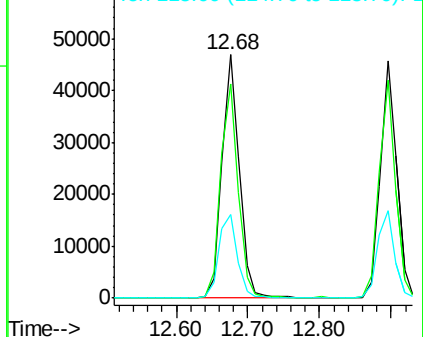
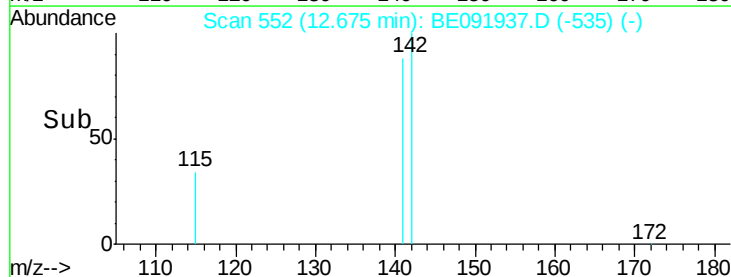


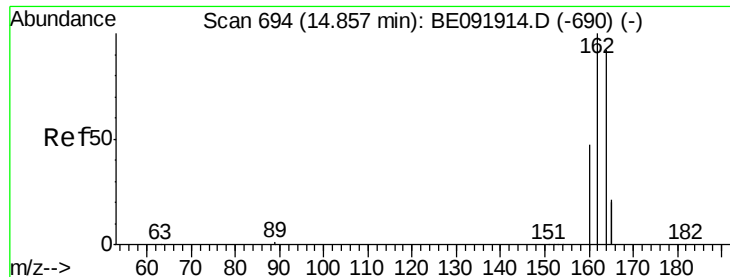
#14
2-Methylnaphthalene
Concen: 3.79 ng
RT: 12.68 min Scan# 552
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion: 142 Resp: 78424
Ion Ratio Lower Upper
142 100
141 88.0 71.9 107.9
115 34.5 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: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

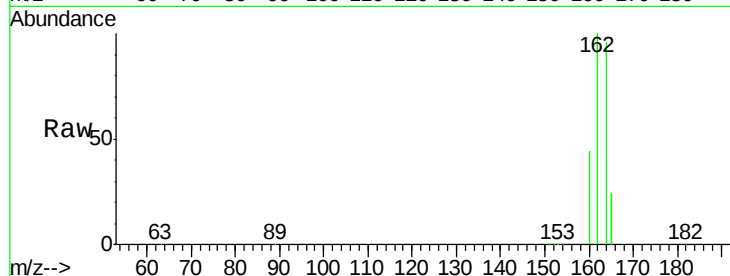
Tgt Ion:164 Resp: 114433

Ion Ratio Lower Upper

164 100

162 103.8 71.8 107.8

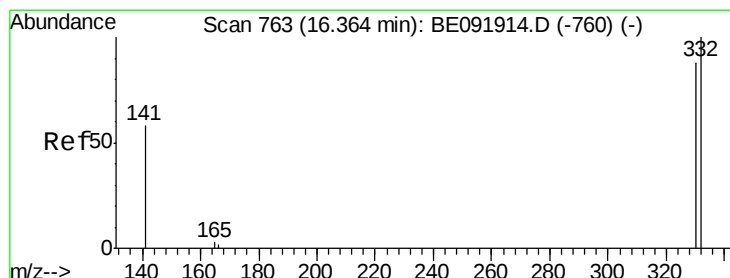
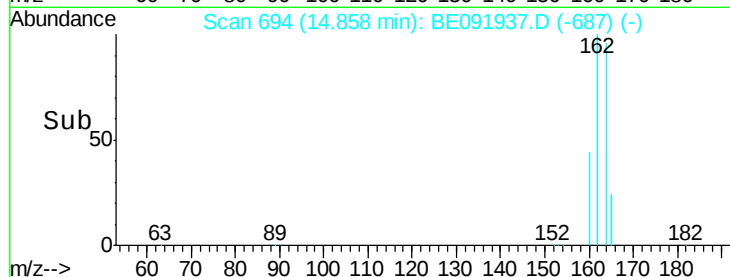
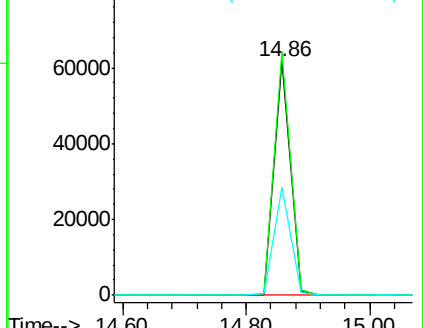
160 46.2 28.0 42.0#



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: 7.31 ng

RT: 16.35 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

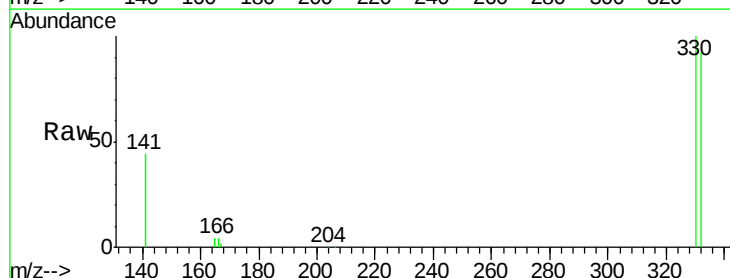
Tgt Ion:330 Resp: 21738

Ion Ratio Lower Upper

330 100

332 96.8 77.0 115.6

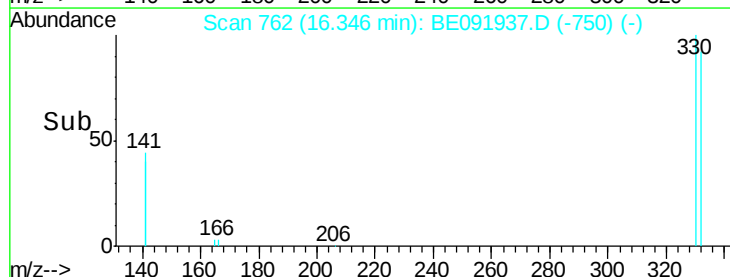
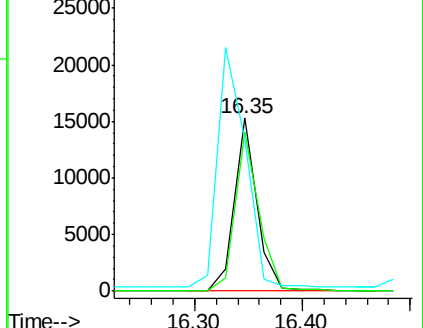
141 174.5 138.4 207.6

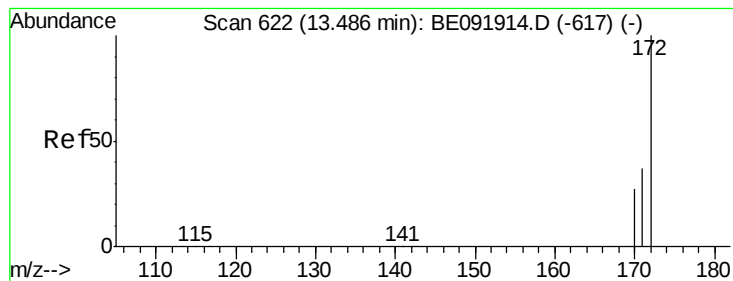


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#17

2-Fluorobiphenyl

Concen: 3.13 ng

RT: 13.48 min Scan# 622

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

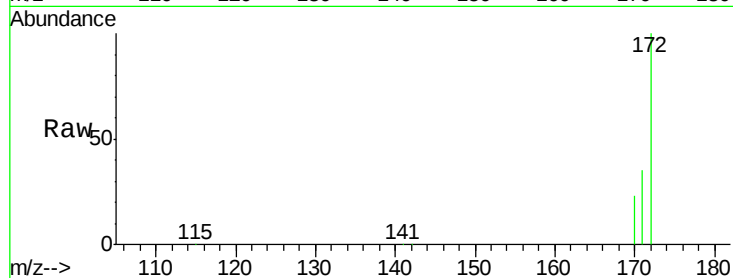
Tgt Ion:172 Resp: 90860

Ion Ratio Lower Upper

172 100

171 34.6 24.3 36.5

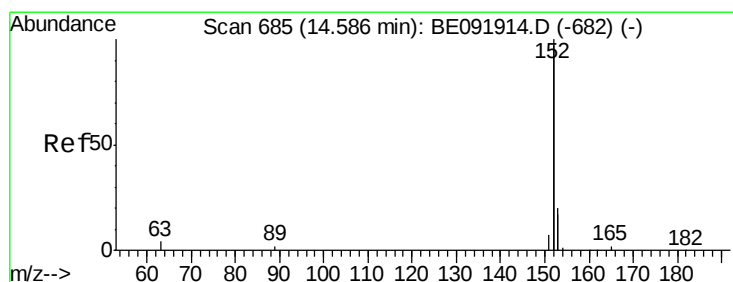
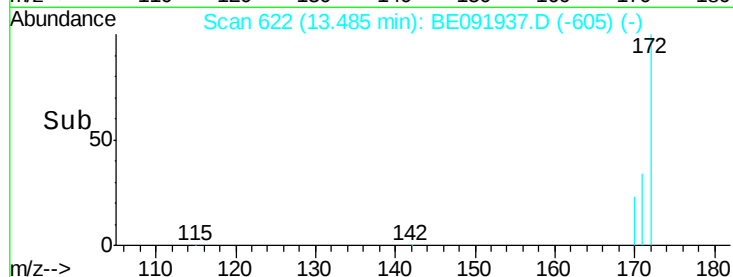
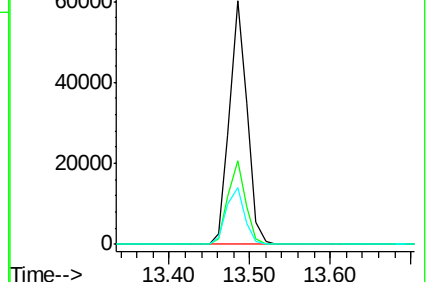
170 23.1 14.9 22.3#



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



#18

Acenaphthylene

Concen: 3.59 ng

RT: 14.56 min Scan# 684

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

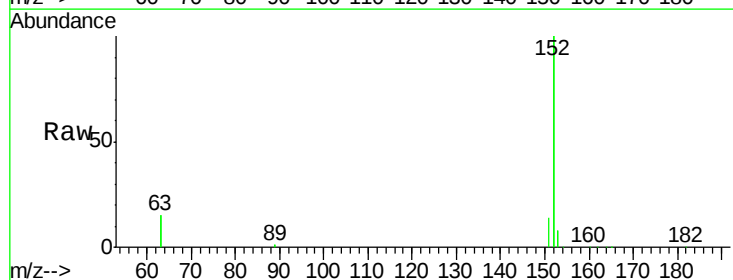
Tgt Ion:152 Resp: 417476

Ion Ratio Lower Upper

152 100

151 5.4 19.4 29.2#

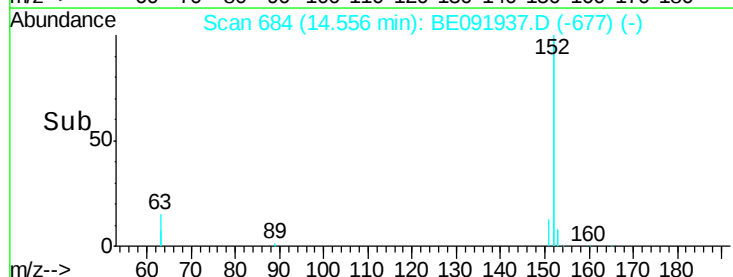
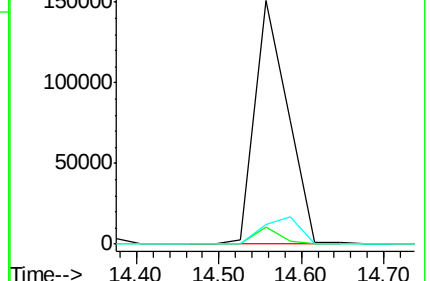
153 0.0 14.4 21.6#

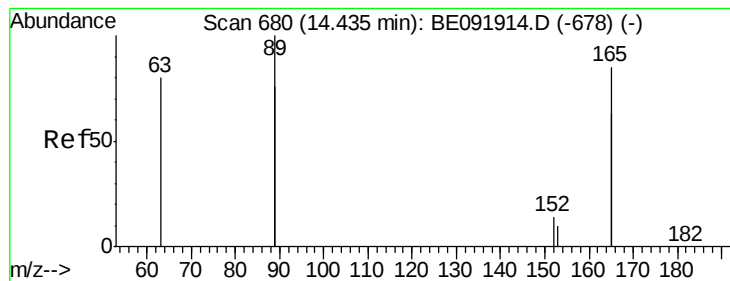


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

2,6-Dinitrotoluene

Concen: 3.40 ng

RT: 14.44 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

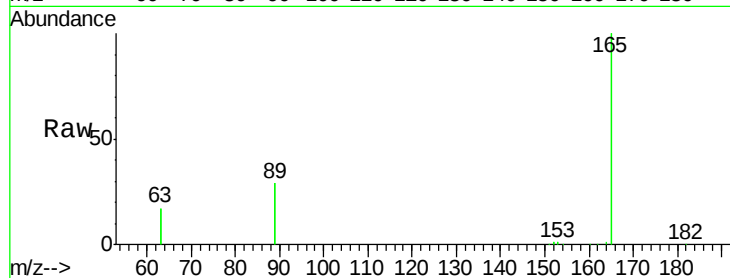
Tgt Ion:165 Resp: 84491

Ion Ratio Lower Upper

165 100

63 0.0 65.9 98.9#

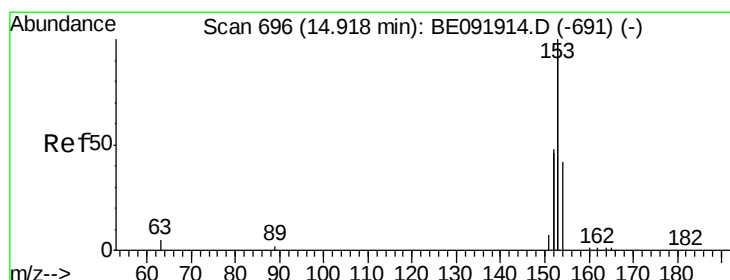
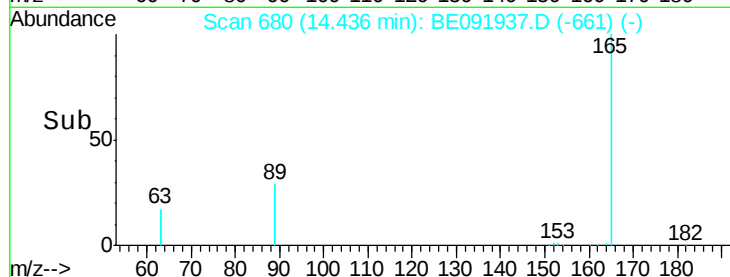
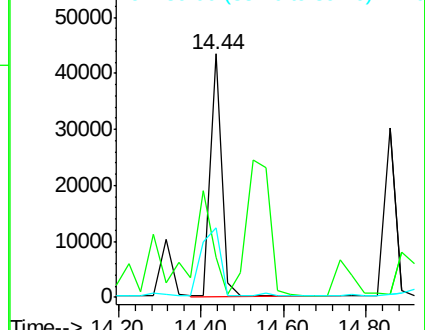
89 48.3 59.1 88.7#



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



#20

Acenaphthene

Concen: 3.32 ng

RT: 14.92 min Scan# 696

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

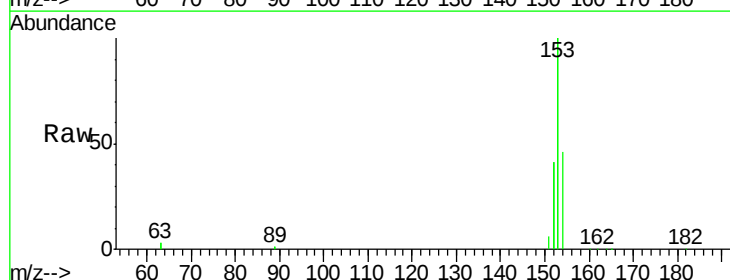
Tgt Ion:154 Resp: 106123

Ion Ratio Lower Upper

154 100

153 415.3 88.1 132.1#

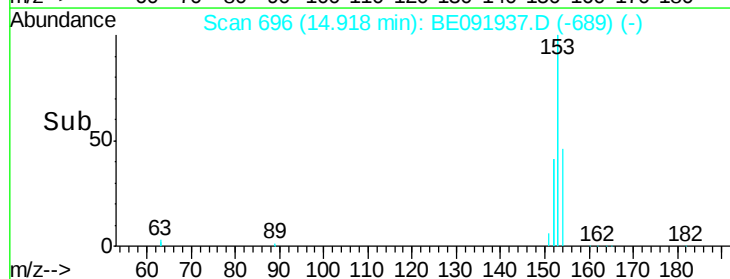
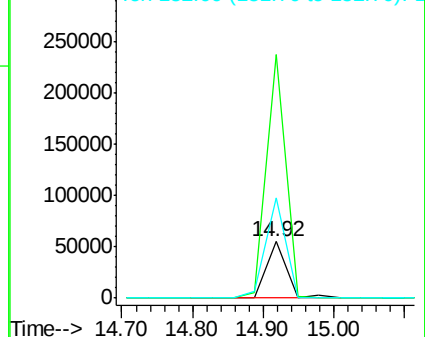
152 178.0 44.2 66.2#

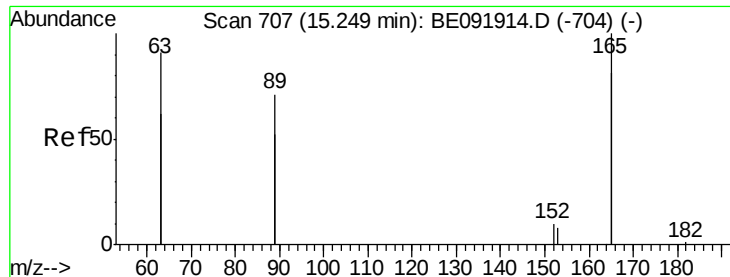


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

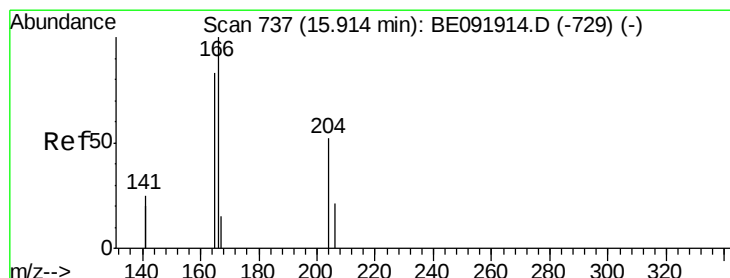
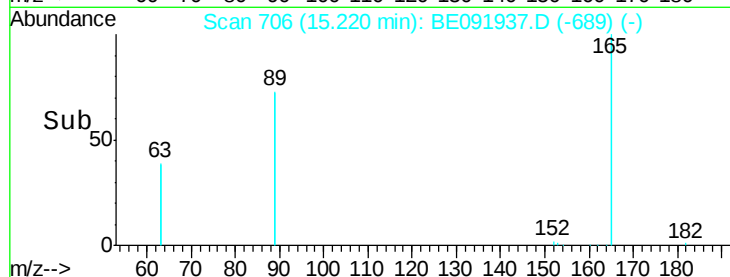
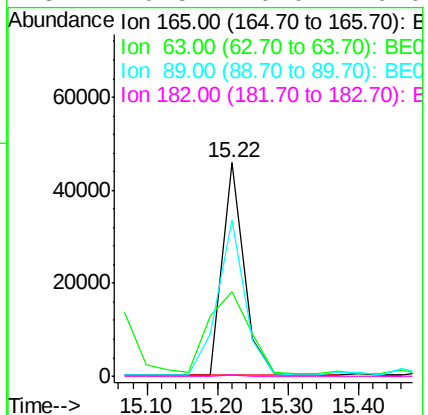
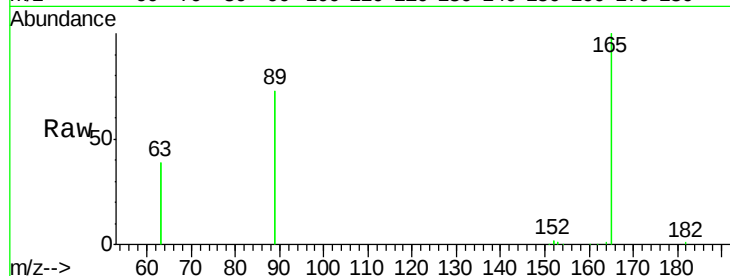




#21
2,4-Dinitrotoluene
Concen: 4.27 ng
RT: 15.22 min Scan# 706
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

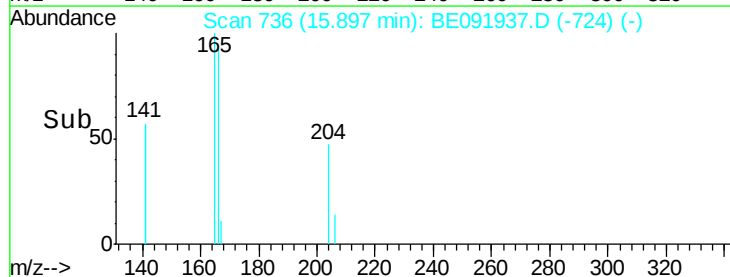
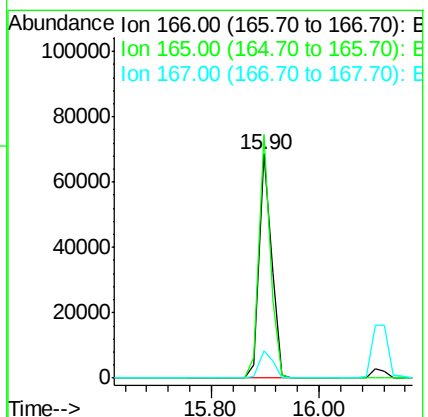
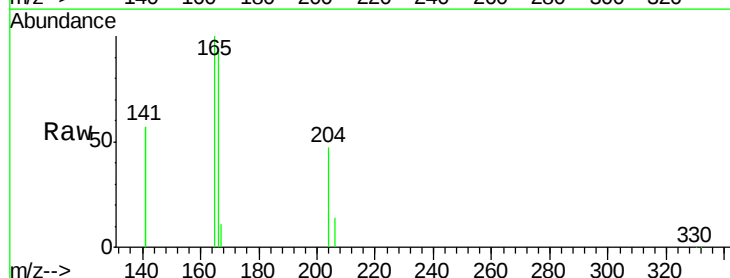
Instrument :
BNA_F
ClientSampleId :
OM-SPN-001-160531MSD

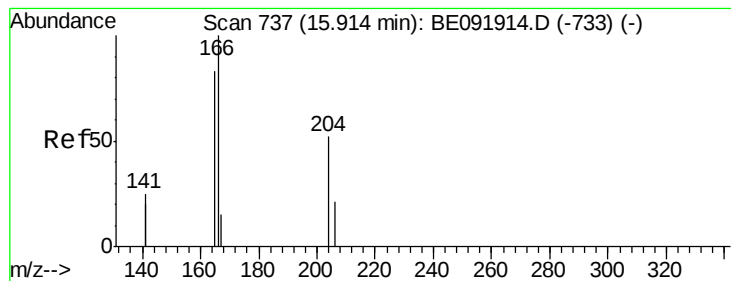
Tgt Ion:165 Resp: 97357
Ion Ratio Lower Upper
165 100
63 72.4 0.0 0.0#
89 92.9 99.8 149.8#
182 0.5 0.0 0.0#



#22
Fluorene
Concen: 3.46 ng
RT: 15.90 min Scan# 736
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion:166 Resp: 110199
Ion Ratio Lower Upper
166 100
165 99.6 78.6 117.8
167 13.4 10.8 16.2





#23

4-Chlorophenyl-phenylether

Concen: 3.28 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

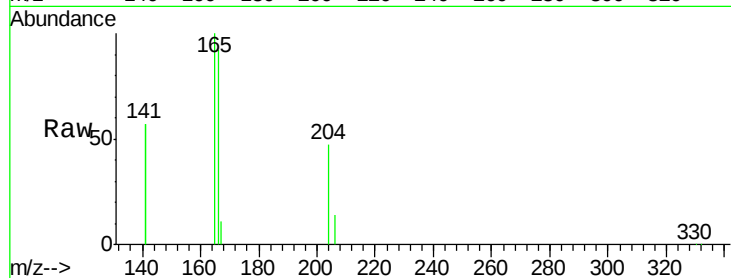
Tgt Ion:204 Resp: 51466

Ion Ratio Lower Upper

204 100

206 33.8 27.8 41.6

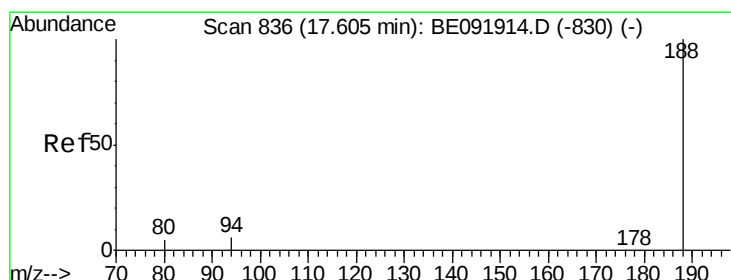
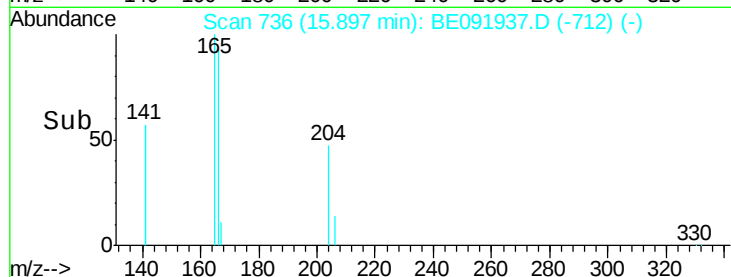
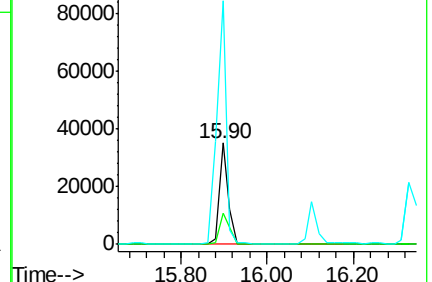
141 252.7 197.6 296.4



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: 17.59 min Scan# 835

Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

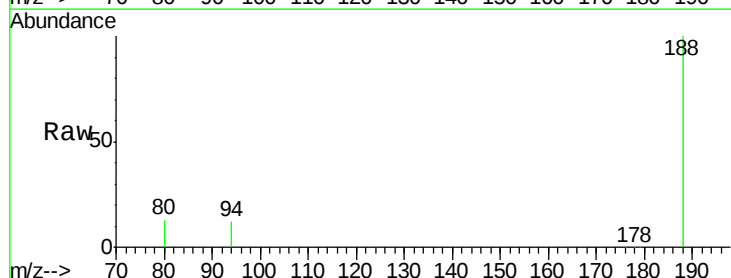
Tgt Ion:188 Resp: 226361

Ion Ratio Lower Upper

188 100

94 12.4 4.1 6.1#

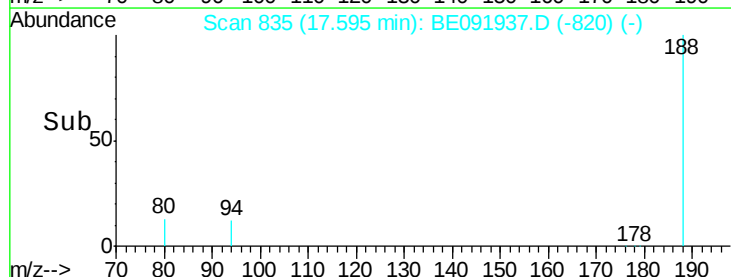
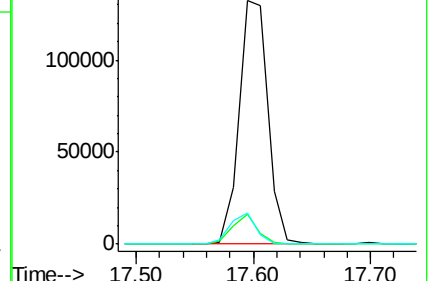
80 12.6 3.4 5.2#

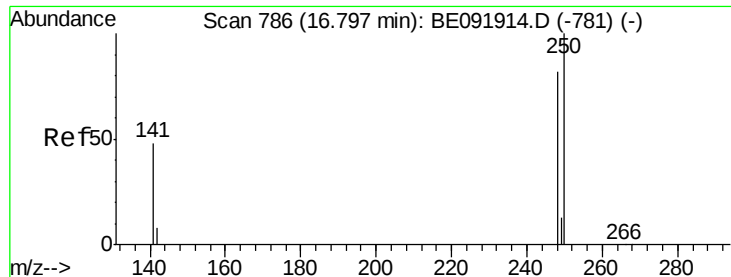


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#25

4-Bromophenyl-phenylether

Concen: 3.66 ng

RT: 16.78 min Scan# 785

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

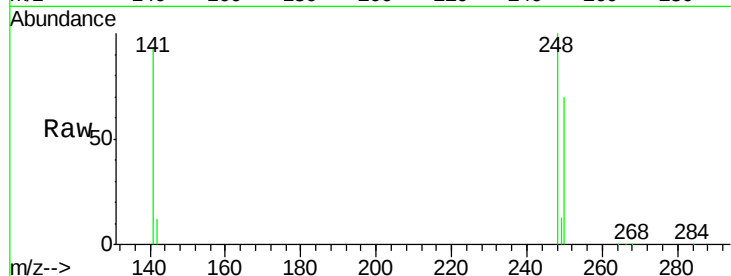
Tgt Ion:248 Resp: 32070

Ion Ratio Lower Upper

248 100

250 96.2 75.7 113.5

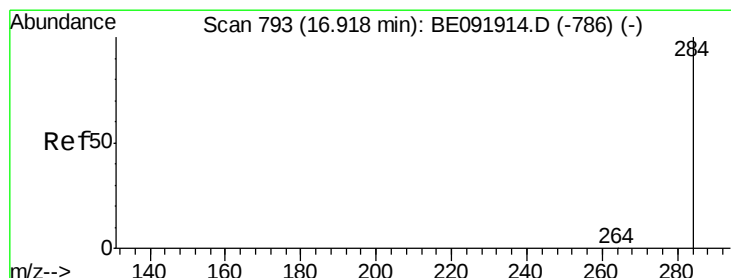
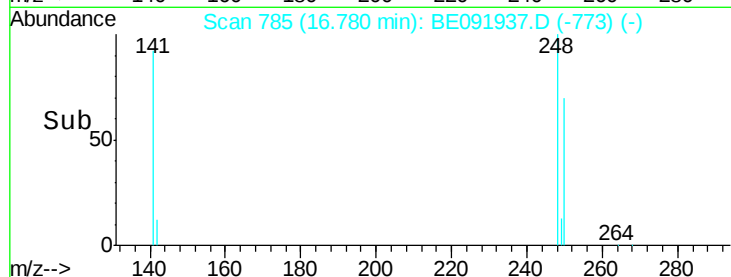
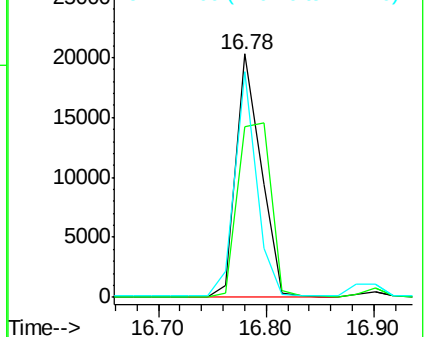
141 81.2 64.6 97.0



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: 3.50 ng

RT: 16.90 min Scan# 792

Delta R.T. -0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

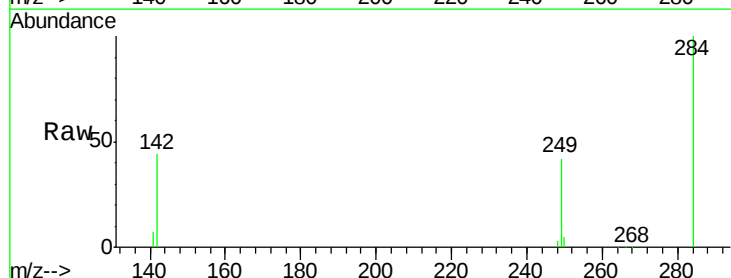
Tgt Ion:284 Resp: 31448

Ion Ratio Lower Upper

284 100

142 40.8 31.4 47.2

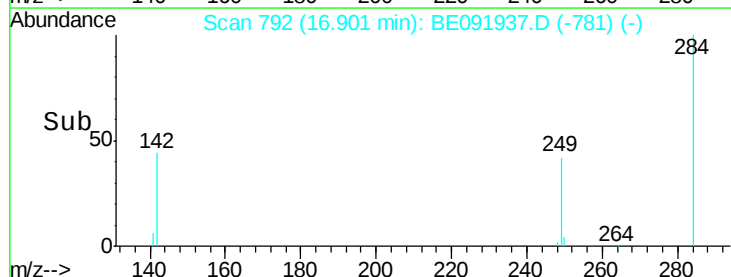
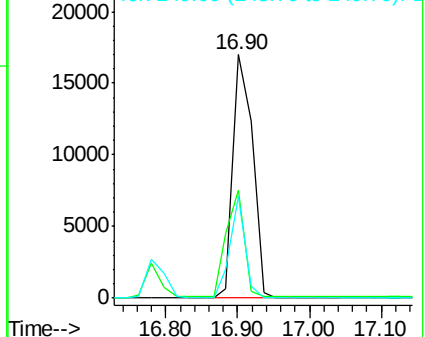
249 32.3 25.3 37.9

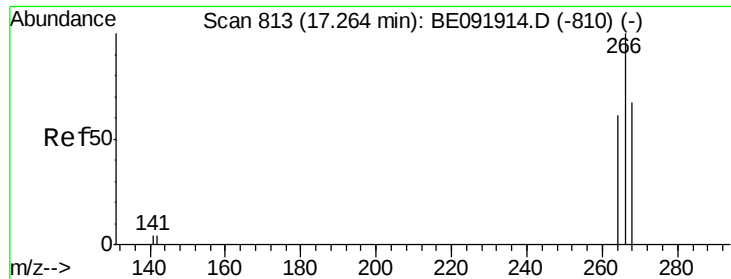


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#27

Pentachlorophenol

Concen: 6.62 ng

RT: 17.25 min Scan# 812

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

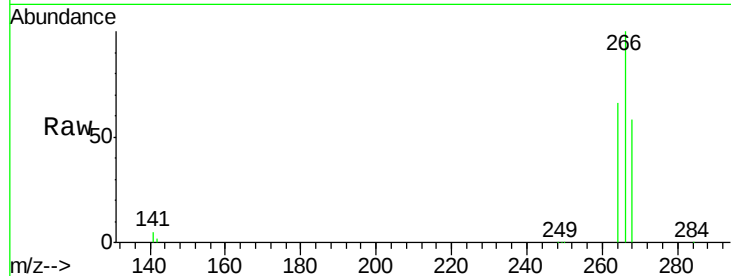
Tgt Ion:266 Resp: 31799

Ion Ratio Lower Upper

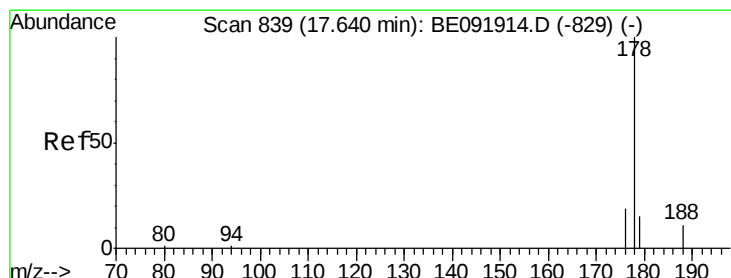
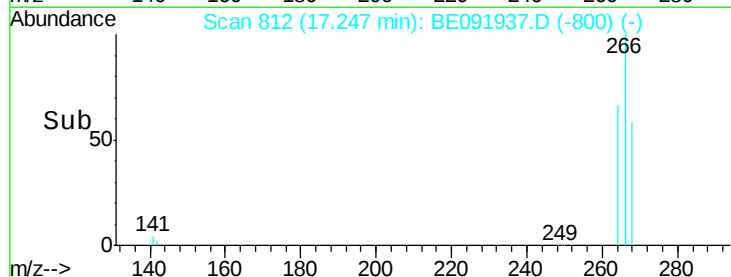
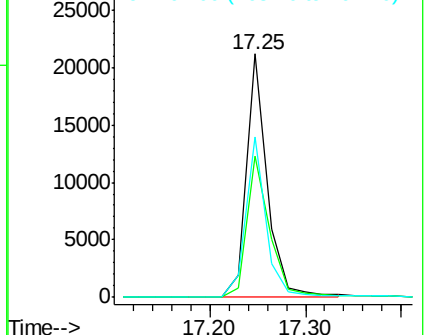
266 100

268 58.2 60.5 90.7#

264 65.7 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: 3.48 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

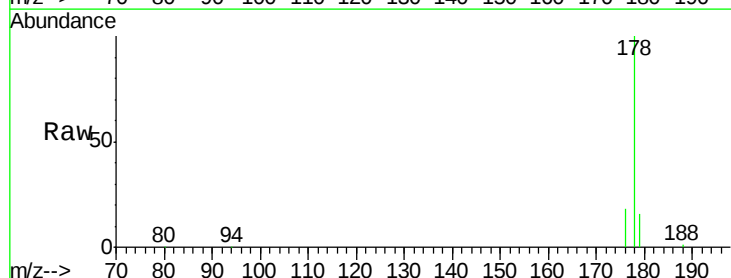
Tgt Ion:178 Resp: 197157

Ion Ratio Lower Upper

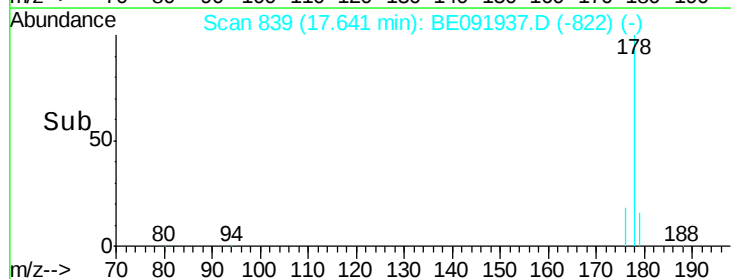
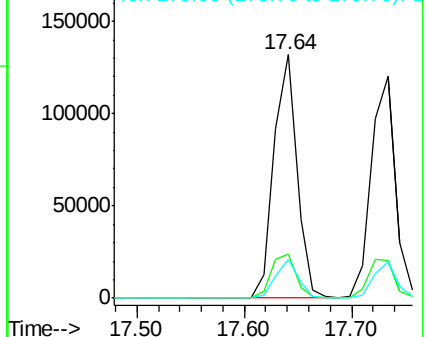
178 100

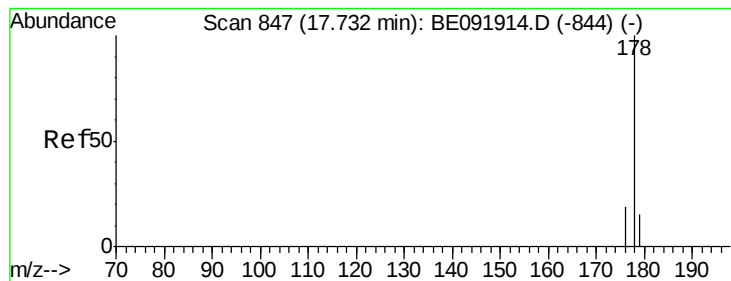
176 19.6 15.4 23.2

179 15.5 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: 3.78 ng

RT: 17.73 min Scan# 847

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

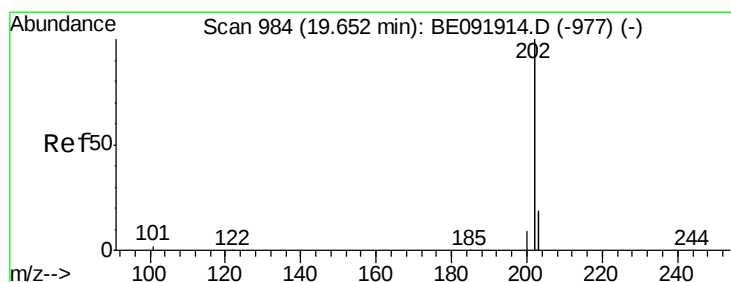
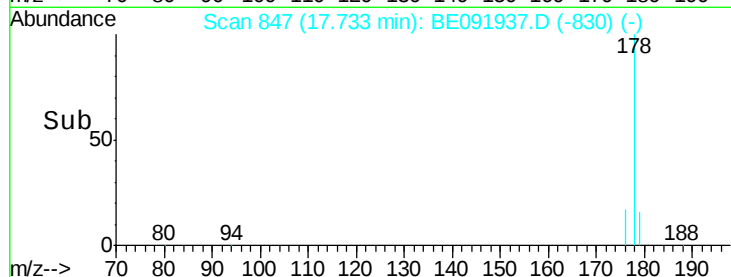
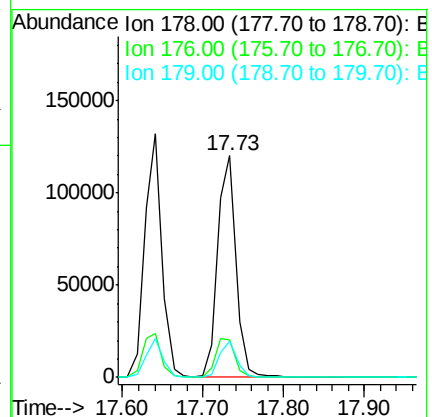
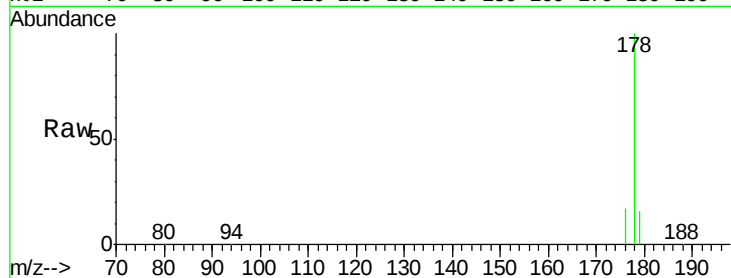
Tgt Ion:178 Resp: 189513

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.5 12.1 18.1



#30

Fluoranthene

Concen: 3.64 ng

RT: 19.65 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

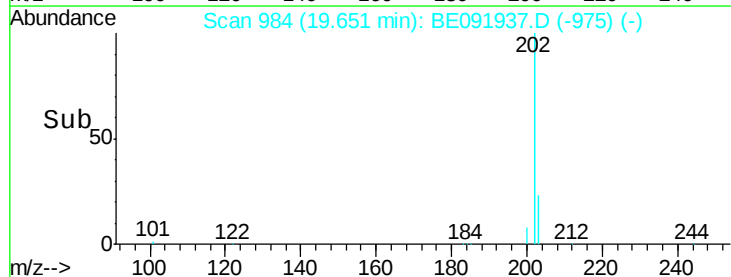
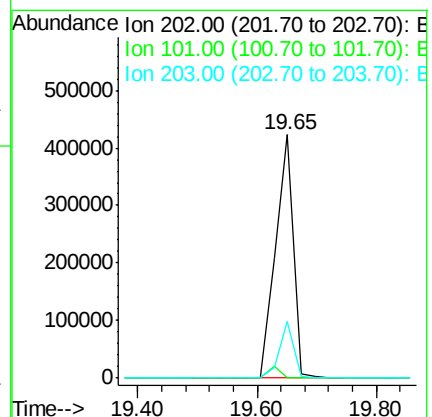
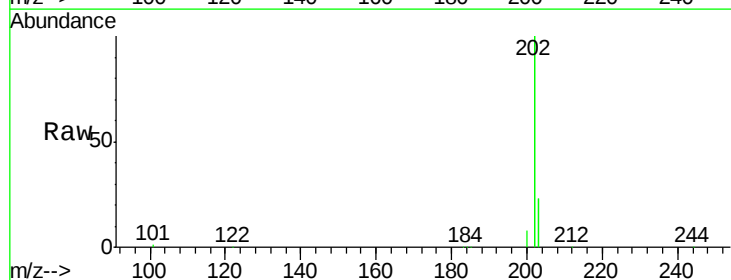
Tgt Ion:202 Resp: 881149

Ion Ratio Lower Upper

202 100

101 0.0 9.4 14.0#

203 18.9 14.3 21.5





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

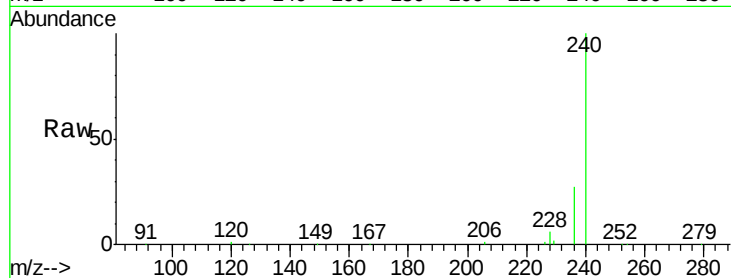
Tgt Ion:240 Resp: 372634

Ion Ratio Lower Upper

240 100

120 1.4 1.2 1.8

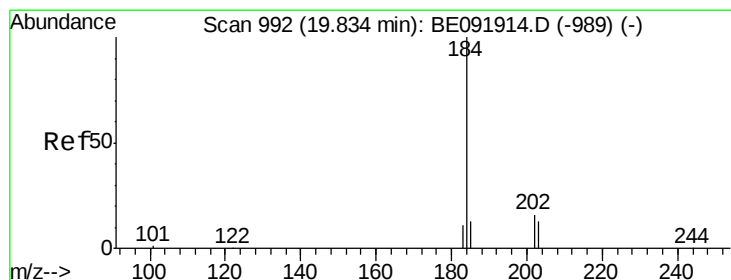
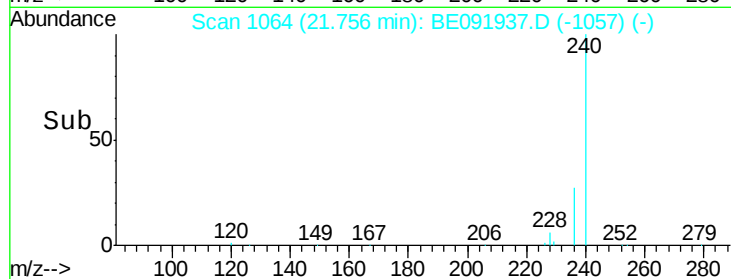
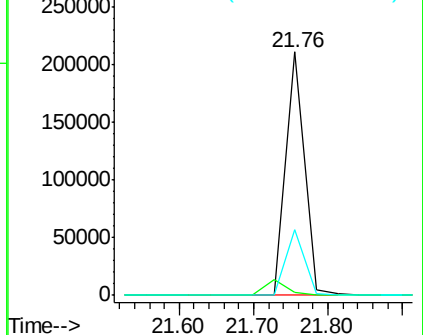
236 27.2 19.8 29.8



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



#32

Benzidine

Concen: 0.16 ng

RT: 19.86 min Scan# 993

Delta R.T. 0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

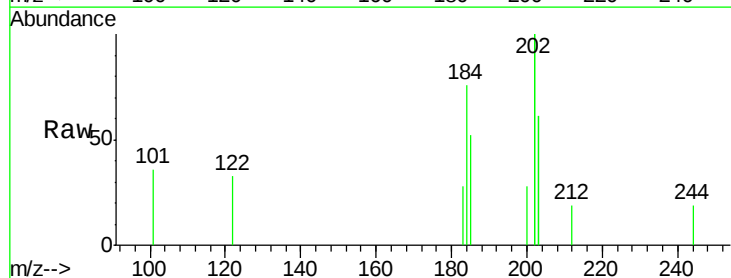
Tgt Ion:184 Resp: 944

Ion Ratio Lower Upper

184 100

185 68.3 11.4 17.2#

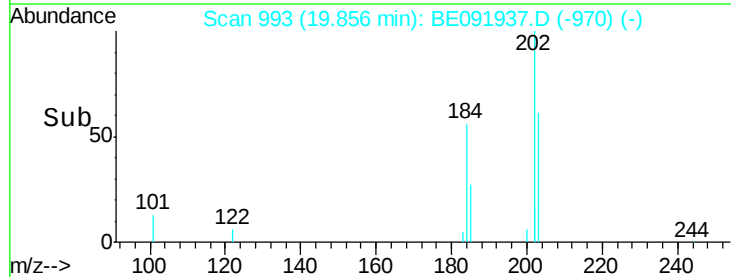
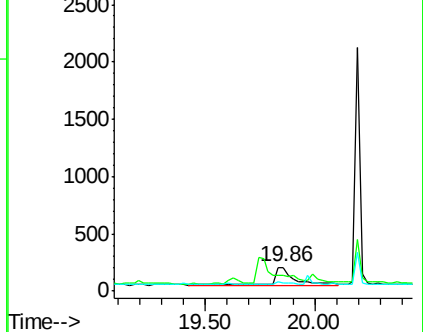
183 36.6 11.8 17.6#

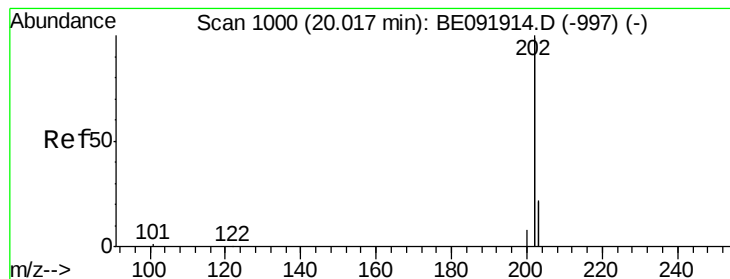


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#33

Pyrene

Concen: 3.59 ng

RT: 19.99 min Scan# 999

Delta R.T. -0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

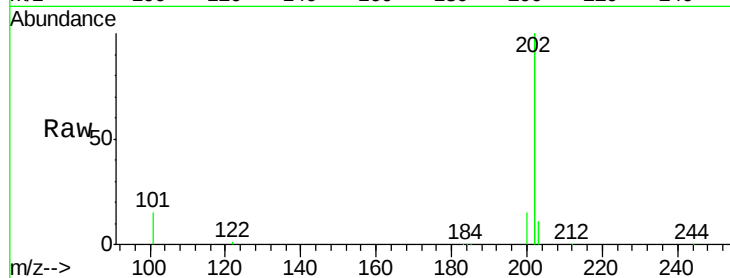
Tgt Ion: 202 Resp: 911158

Ion Ratio Lower Upper

202 100

200 5.6 16.9 25.3#

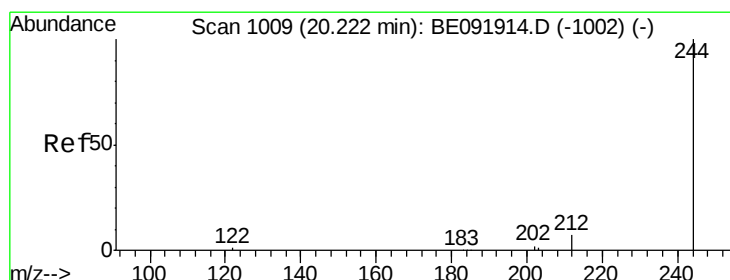
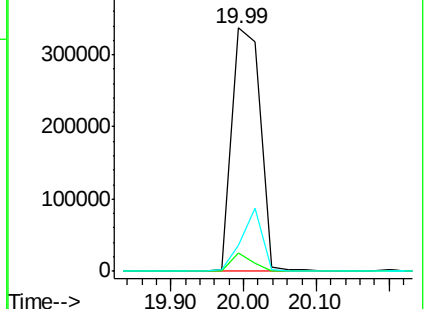
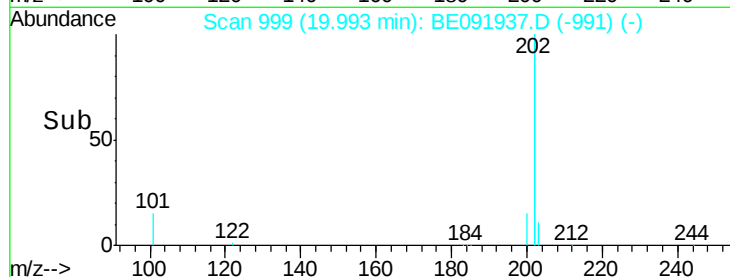
203 0.0 14.1 21.1#



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: 3.21 ng

RT: 20.22 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

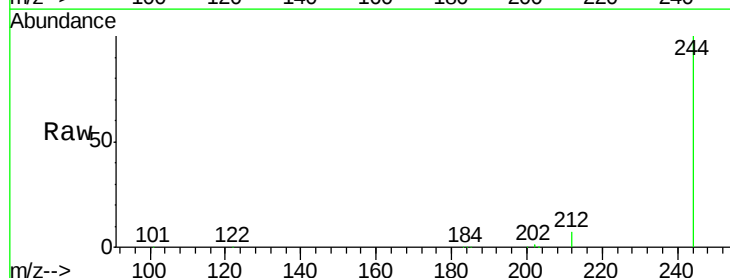
Tgt Ion: 244 Resp: 146264

Ion Ratio Lower Upper

244 100

212 6.7 6.5 9.7

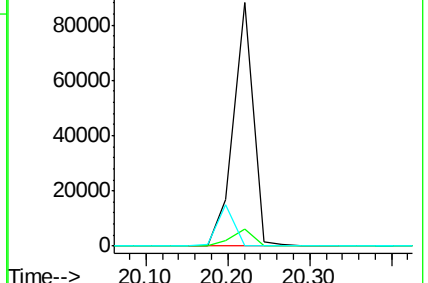
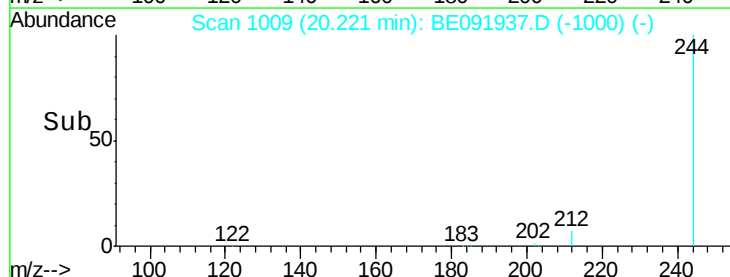
122 0.4 2.9 4.3#

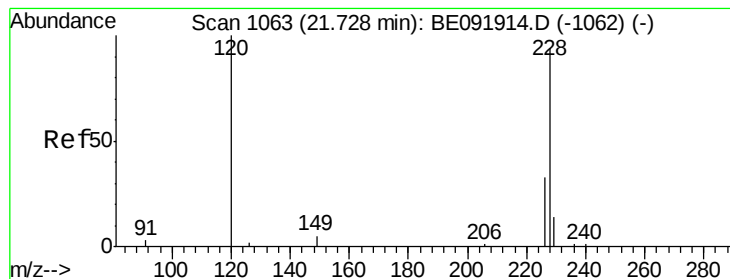


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Benzo(a)anthracene

Concen: 4.65 ng

RT: 21.73 min Scan# 1063

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

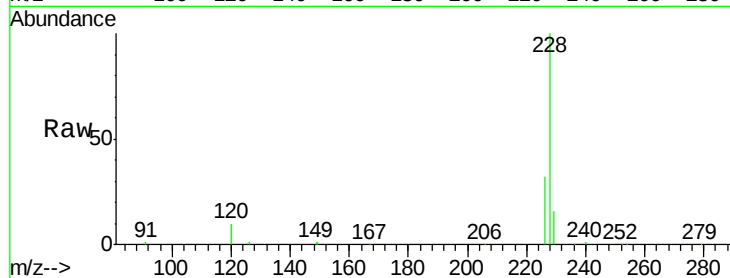
Tgt Ion:228 Resp: 272264

Ion Ratio Lower Upper

228 100

226 32.3 21.0 31.4#

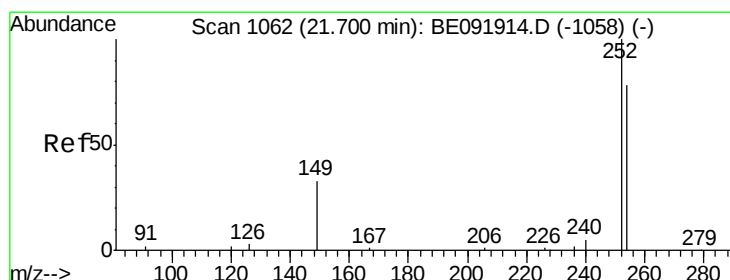
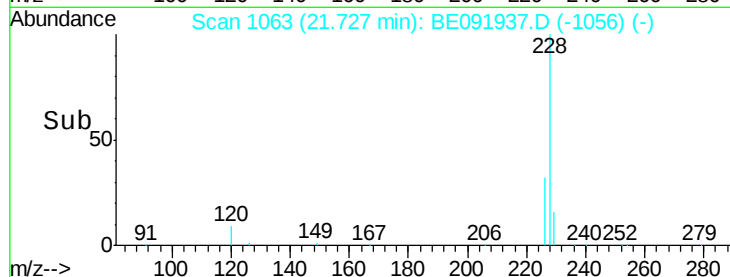
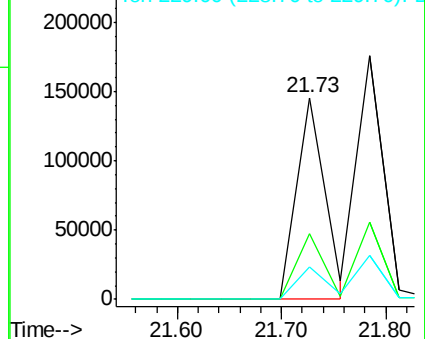
229 16.2 15.8 23.8



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: 4.39 ng

RT: 21.67 min Scan# 1061

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

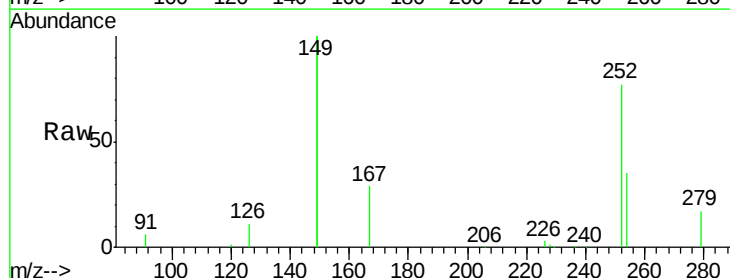
Tgt Ion:252 Resp: 41646

Ion Ratio Lower Upper

252 100

254 45.4 61.5 92.3#

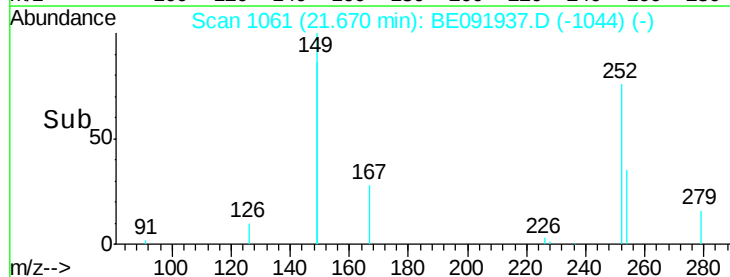
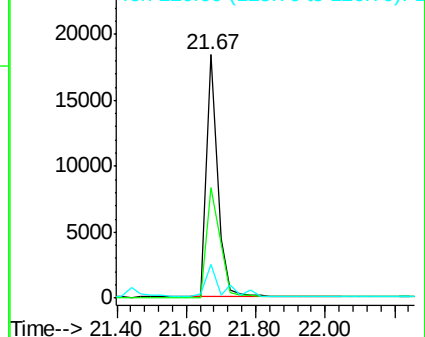
126 14.1 2.5 3.7#

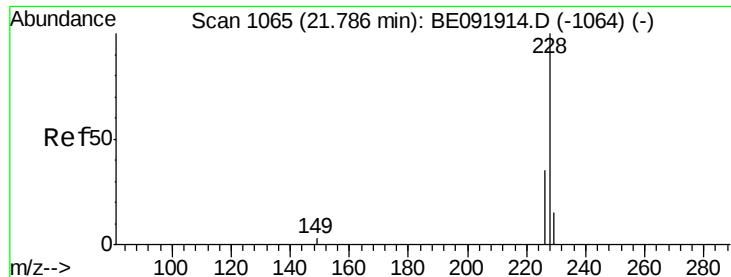


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#37

Chrysene

Concen: 3.18 ng

RT: 21.73 min Scan# 1063

Delta R.T. -0.06 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

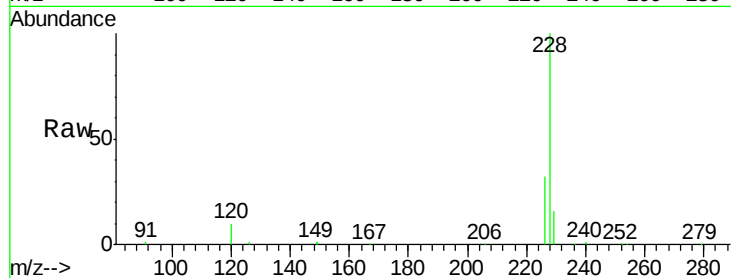
Tgt Ion:228 Resp: 272307

Ion Ratio Lower Upper

228 100

226 32.3 27.0 40.6

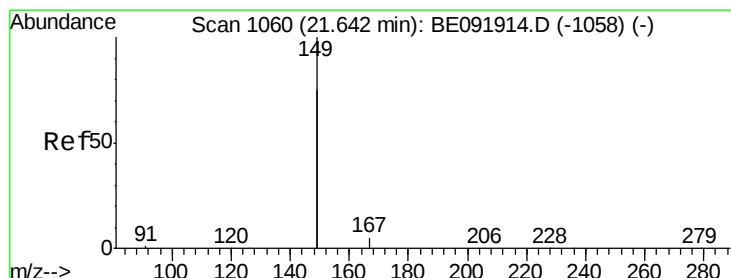
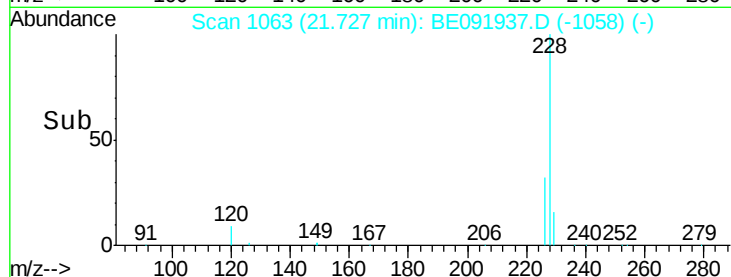
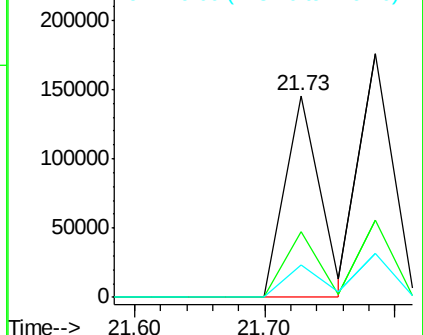
229 16.2 13.8 20.8



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 5.06 ng

RT: 21.64 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

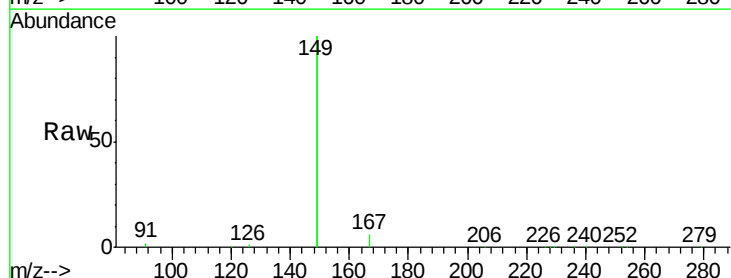
Tgt Ion:149 Resp: 308613

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

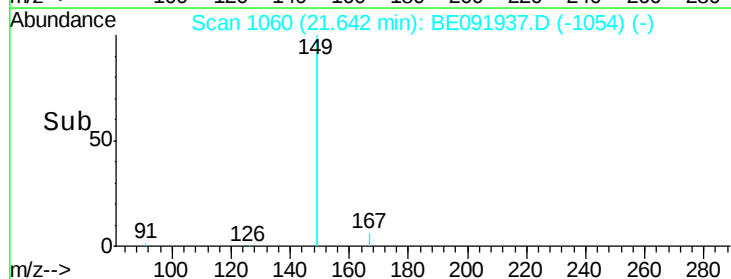
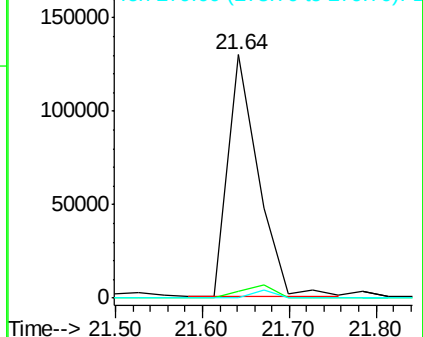
279 0.0 0.0 0.0

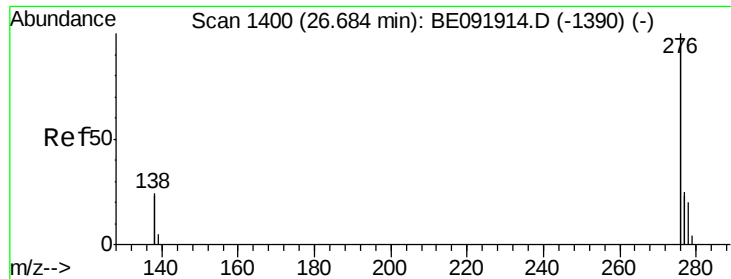


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: 3.66 ng

RT: 26.68 min Scan# 1401

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

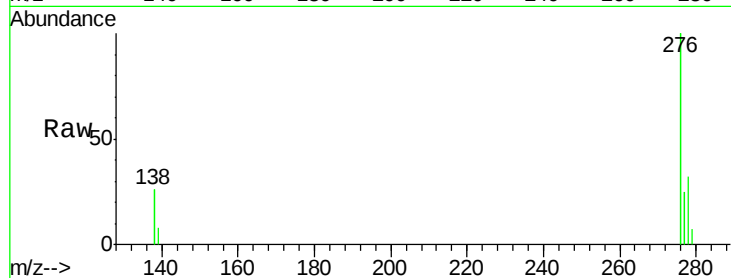
Tgt Ion:276 Resp: 1071832

Ion Ratio Lower Upper

276 100

138 26.2 19.7 29.5

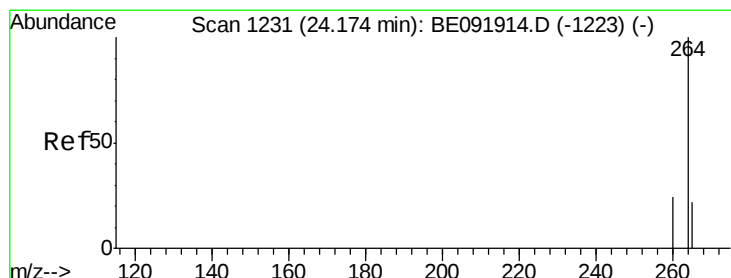
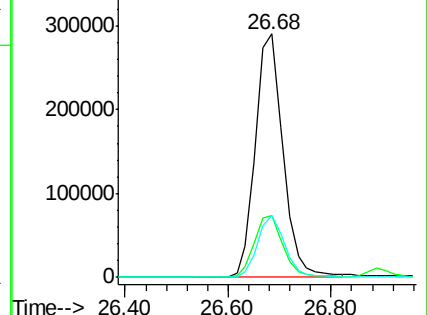
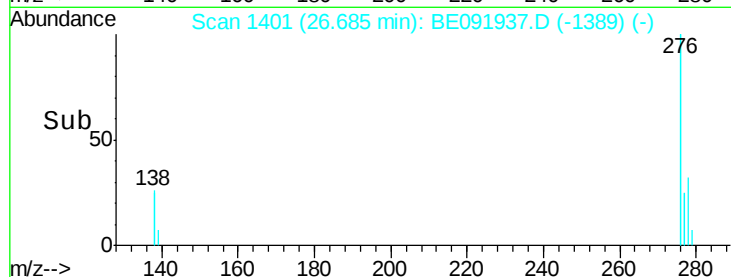
277 24.8 20.1 30.1



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: 24.16 min Scan# 1231

Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

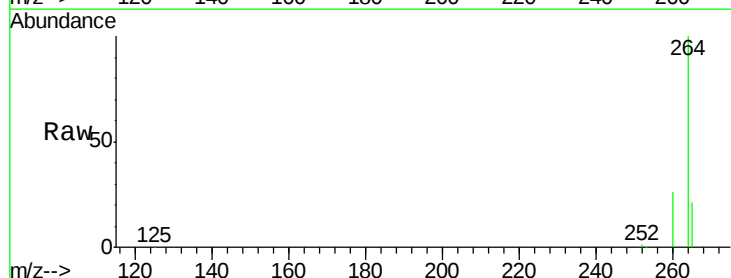
Tgt Ion:264 Resp: 271205

Ion Ratio Lower Upper

264 100

260 25.8 20.3 30.5

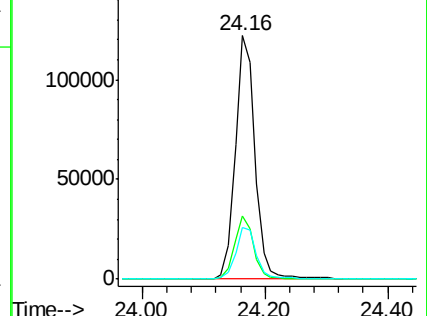
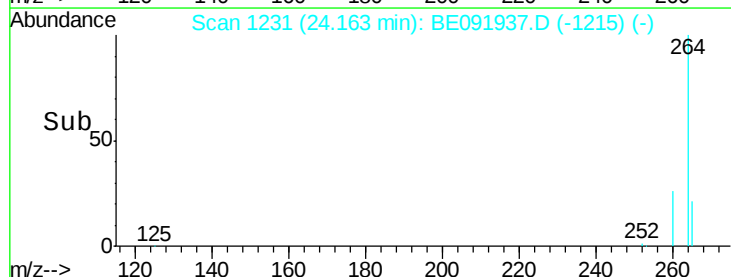
265 21.3 17.6 26.4

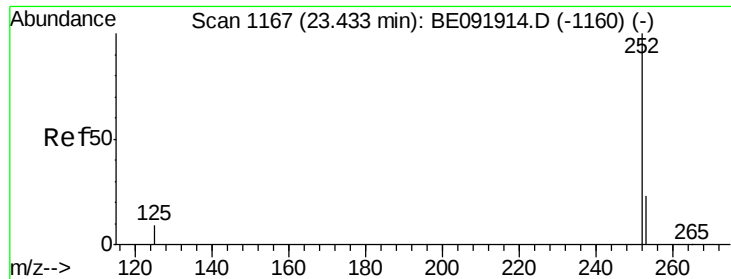


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 3.64 ng

RT: 23.42 min Scan# 1167

Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

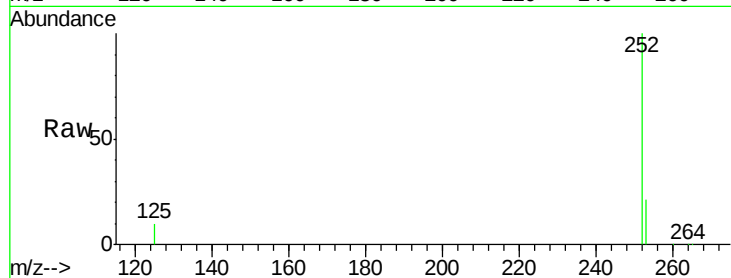
Tgt Ion:252 Resp: 253475

Ion Ratio Lower Upper

252 100

253 21.5 17.8 26.6

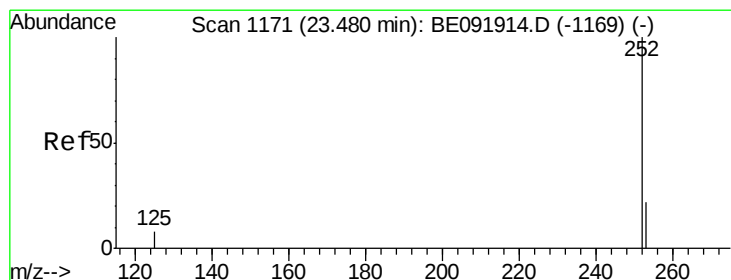
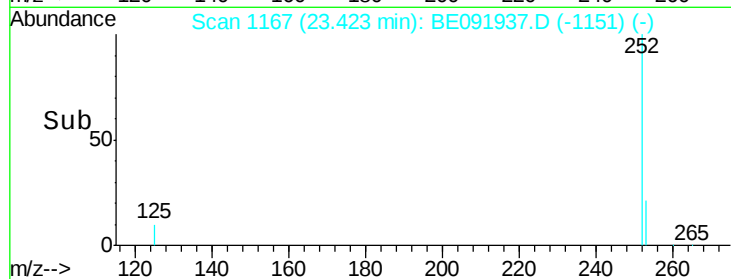
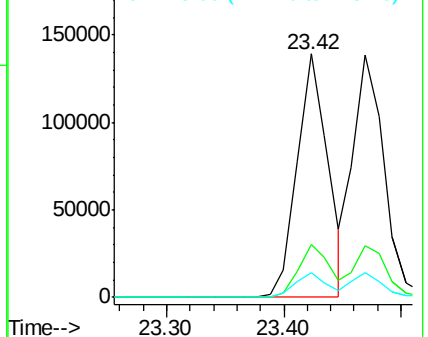
125 10.3 9.4 14.2



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: 3.99 ng

RT: 23.47 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

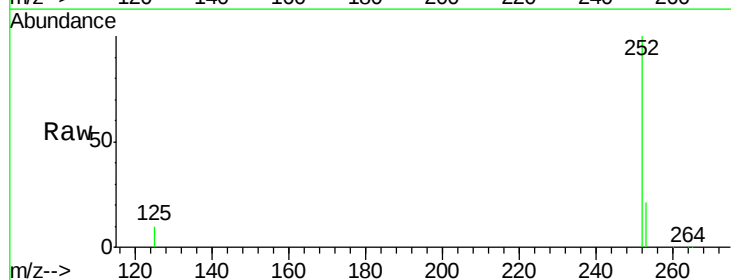
Tgt Ion:252 Resp: 254002

Ion Ratio Lower Upper

252 100

253 21.3 19.4 29.2

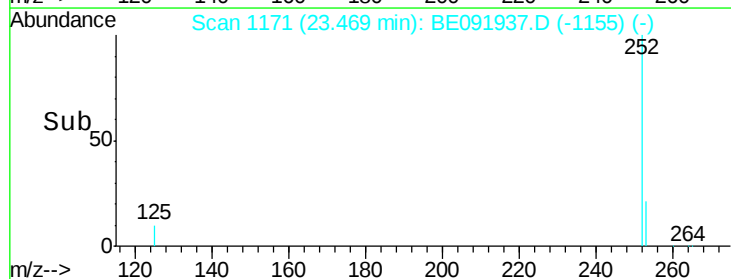
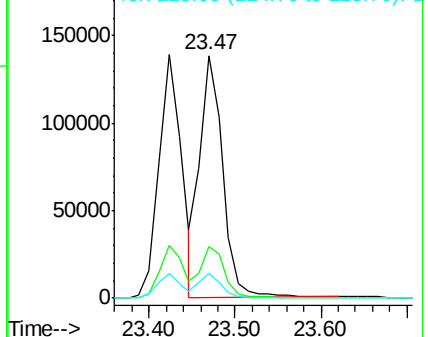
125 10.3 8.3 12.5



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: 3.93 ng

RT: 24.06 min Scan# 1222

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD

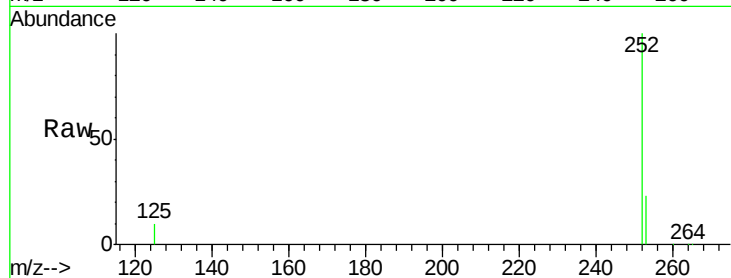
Tgt Ion: 252 Resp: 238808

Ion Ratio Lower Upper

252 100

253 22.9 18.9 28.3

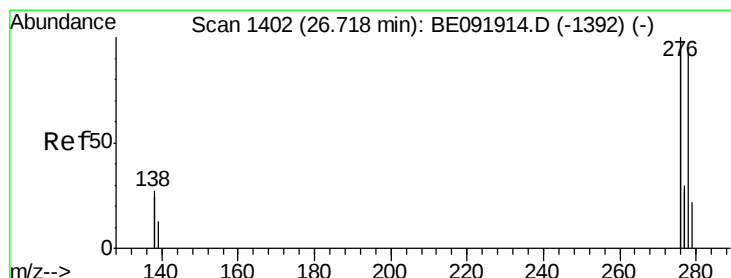
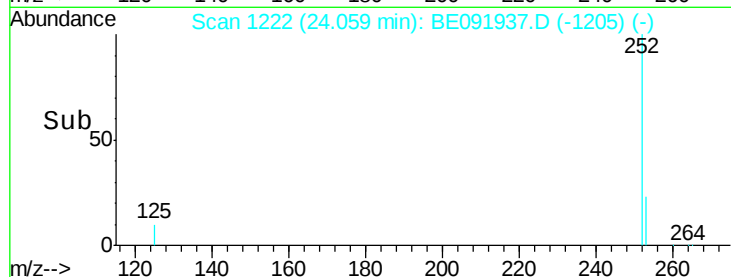
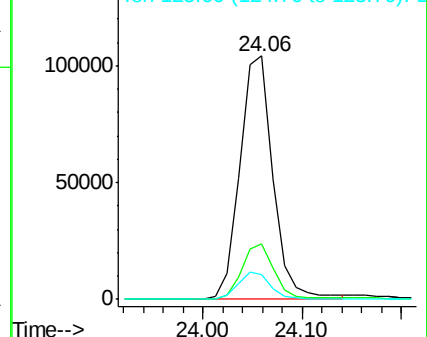
125 10.4 10.5 15.7#



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: 3.77 ng

RT: 26.70 min Scan# 1402

Delta R.T. -0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

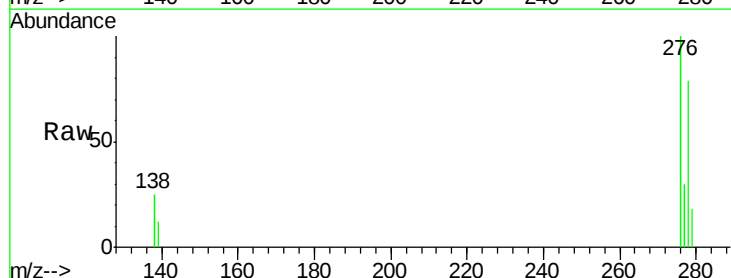
Tgt Ion: 278 Resp: 222941

Ion Ratio Lower Upper

278 100

139 15.5 12.6 18.8

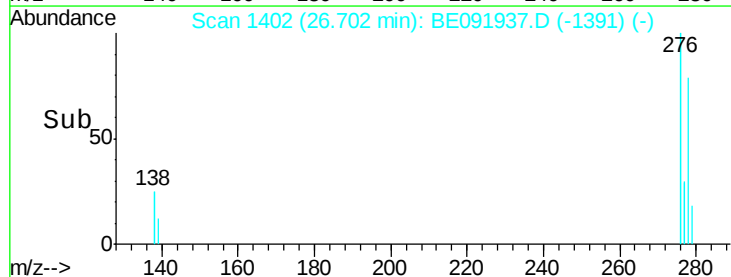
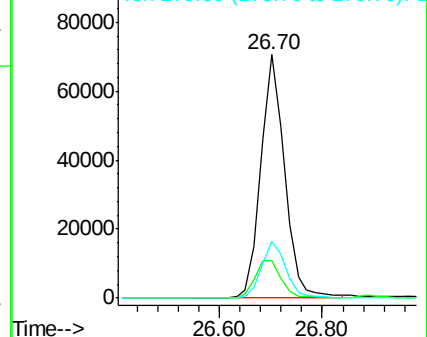
279 23.5 20.0 30.0

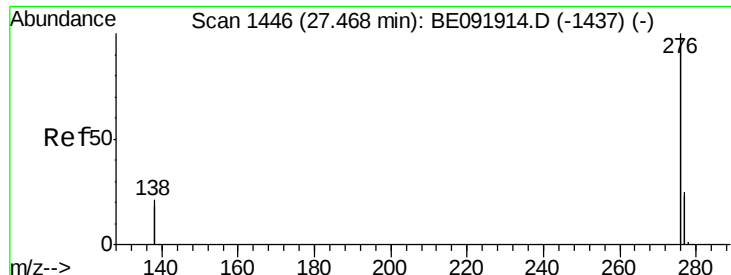


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#45

Benzo(g,h,i)perylene

Concen: 3.73 ng

RT: 27.45 min Scan# 1446

Delta R.T. -0.02 min

Lab File: BE091937.D

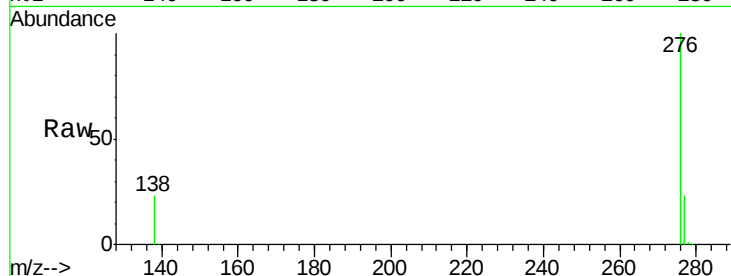
Acq: 16 Jun 2016 13:48

Instrument :

BNA_F

ClientSampleId :

OM-SPN-001-160531MSD



Tgt Ion: 276 Resp: 910830

Ion Ratio Lower Upper

276 100

277 22.8 19.5 29.3

138 22.8 17.7 26.5

