

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE033116\
 Data File : BE091575.D
 Acq On : 31 Mar 2016 4:08
 Operator : UM/SJ
 Sample : H1946-12
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-4

Quant Time: Mar 31 05:03:54 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	38090	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	184608	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	116084	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	285686	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	387479	5.00	ng	-0.02
28) Perylene-d12	23.76	264	335160	5.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	28296	2.84	ng	-0.02
5) Phenol-d6	6.97	99	26901	1.99	ng	-0.02
7) Nitrobenzene-d5	8.96	82	45951	3.71	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	38129	7.41	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	127967	3.88	ng	-0.02
24) Terphenyl-d14	19.76	244	228865	4.65	ng	-0.02

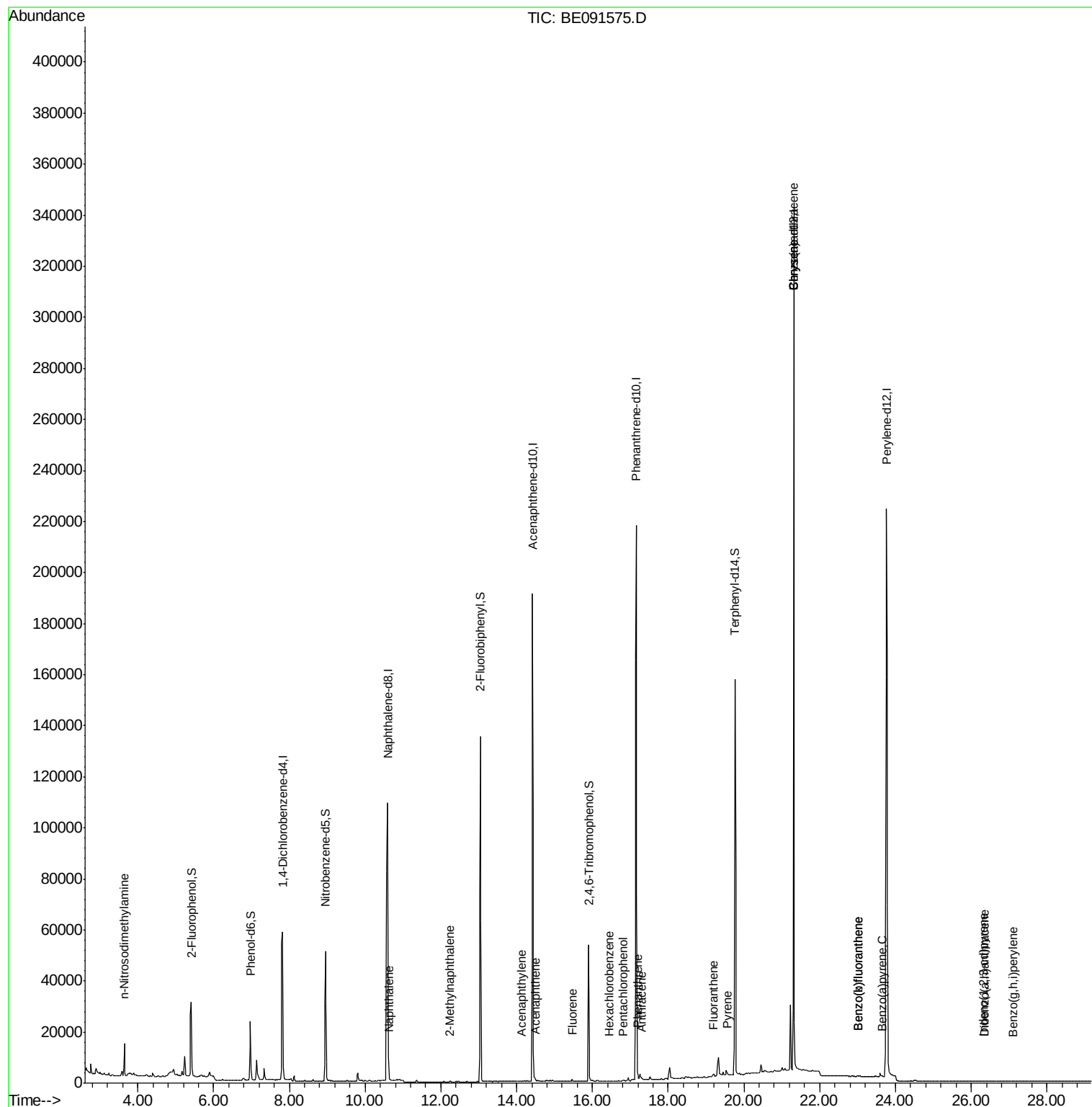
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.64	42	820	0.12	ng	# 1
8) Naphthalene	10.63	128	942	0.02	ng	# 73
9) 2-Methylnaphthalene	12.24	142	327	0.01	ng	# 59
13) Acenaphthylene	14.14	152	389	0.01	ng	# 60
14) Acenaphthene	14.49	154	496	0.02	ng	# 92
15) Fluorene	15.47	166	765	0.02	ng	# 86
17) Hexachlorobenzene	16.45	284	7	0.00	ng	# 1
18) Pentachlorophenol	16.81	266	311	0.05	ng	# 88
19) Phenanthrene	17.19	178	2149	0.03	ng	# 91
20) Anthracene	17.29	178	913	0.01	ng	# 94
21) Fluoranthene	19.21	202	1035	0.01	ng	# 42
23) Pyrene	19.57	202	904	0.01	ng	# 89
25) Benzo(a)anthracene	21.31	228	1719	0.02	ng	# 57
26) Chrysene	21.31	228	1757	0.02	ng	# 49
27) Indeno(1,2,3-cd)pyrene	26.32	276	208	0.00	ng	# 76
29) Benzo(b)fluoranthene	23.01	252	407	0.01	ng	# 1
30) Benzo(k)fluoranthene	23.01	252	407	0.01	ng	# 1
31) Benzo(a)pyrene	23.65	252	219	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.34	278	126	0.00	ng	# 1
33) Benzo(g,h,i)perylene	27.11	276	238	0.00	ng	# 1

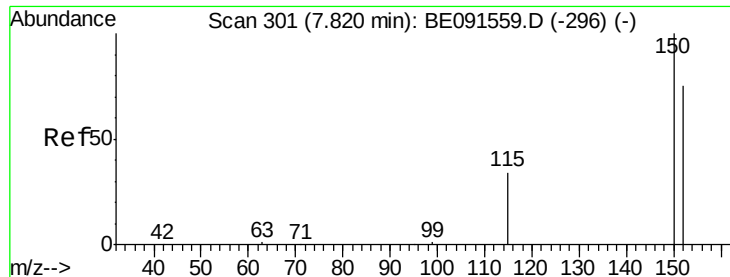
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

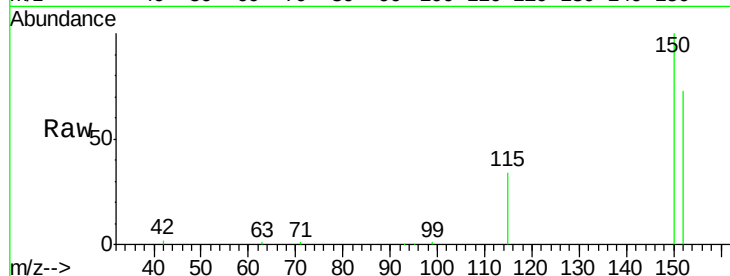
Tgt Ion:152 Resp: 38090

Ion Ratio Lower Upper

152 100

150 136.8 122.2 183.2

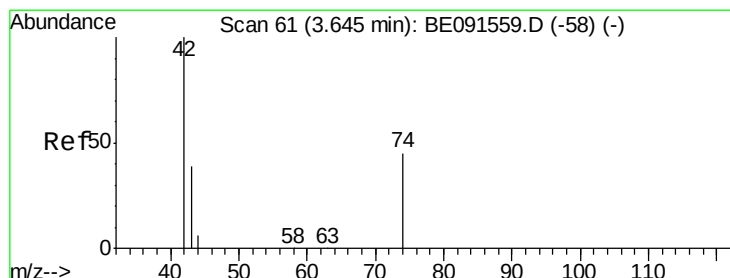
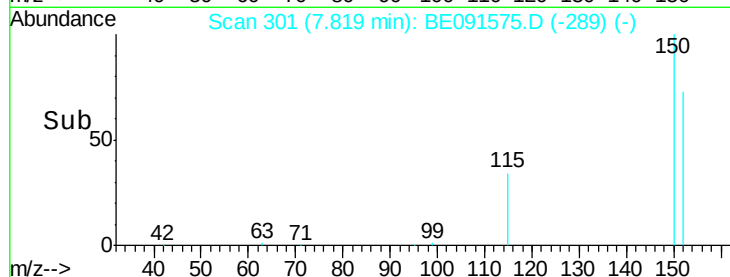
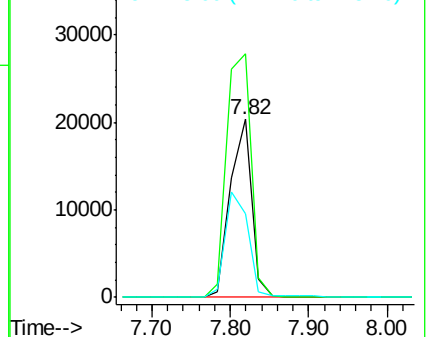
115 46.8 45.9 68.9



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



#3

n-Nitrosodimethylamine

Concen: 0.12 ng

RT: 3.64 min Scan# 61

Delta R.T. -0.03 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

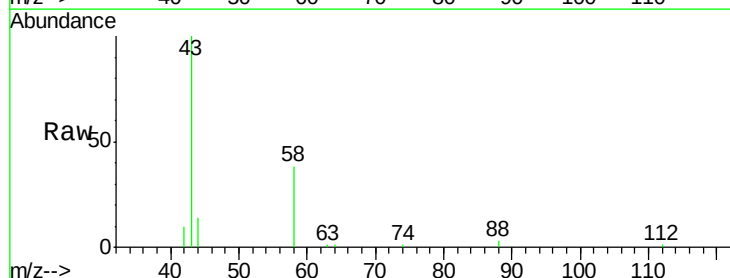
Tgt Ion: 42 Resp: 820

Ion Ratio Lower Upper

42 100

74 0.0 84.3 126.5#

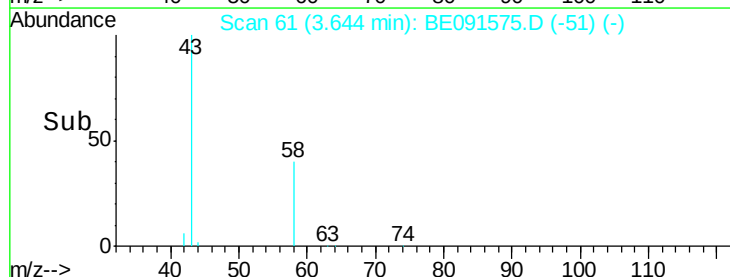
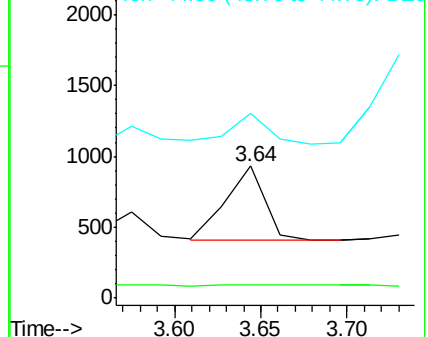
44 37.3 6.7 10.1#

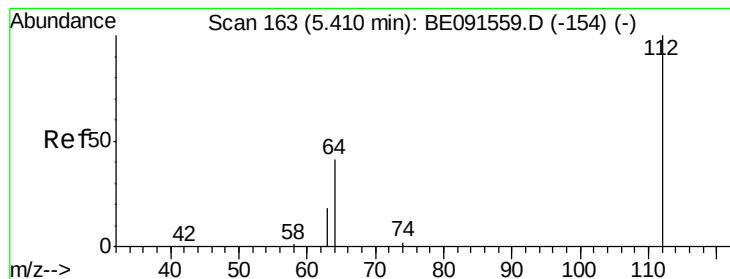


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 2.84 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

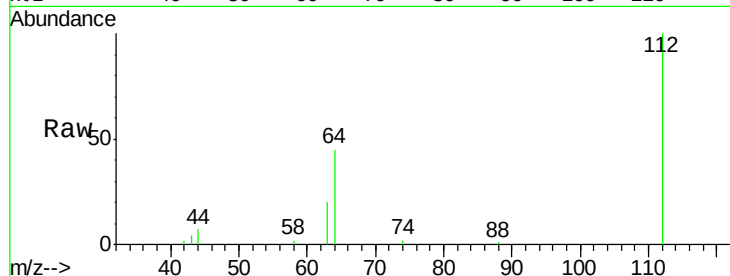
Tgt Ion: 112 Resp: 28296

Ion Ratio Lower Upper

112 100

64 68.4 53.3 79.9

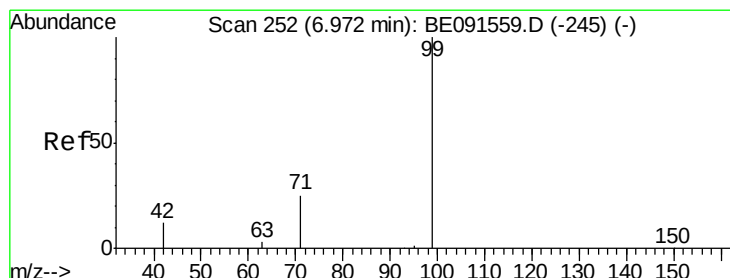
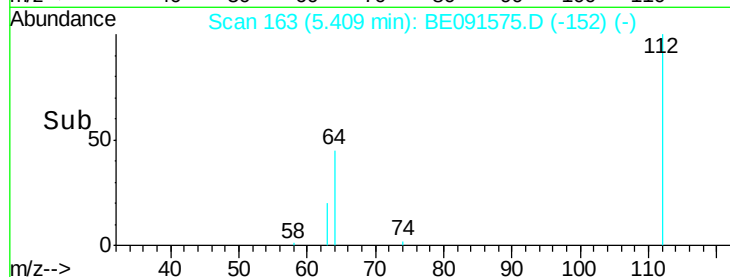
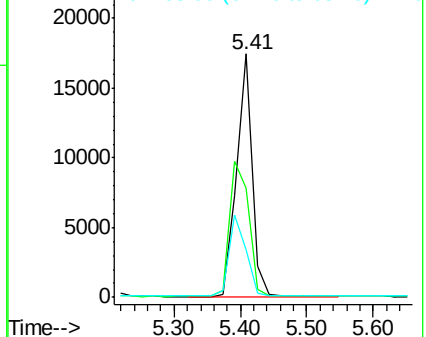
63 36.3 29.8 44.8



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: 1.99 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

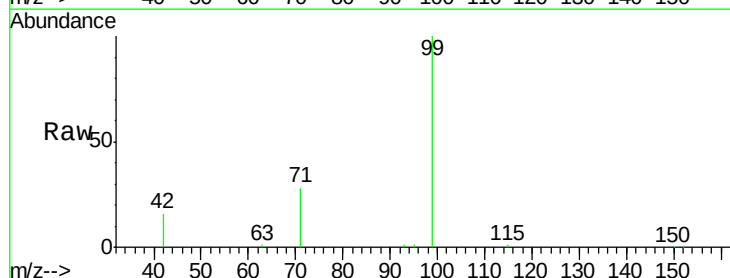
Tgt Ion: 99 Resp: 26901

Ion Ratio Lower Upper

99 100

42 24.8 20.6 30.8

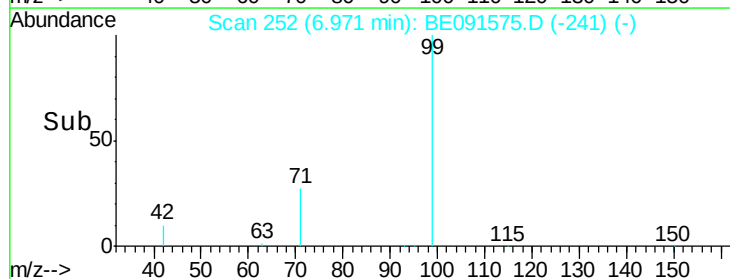
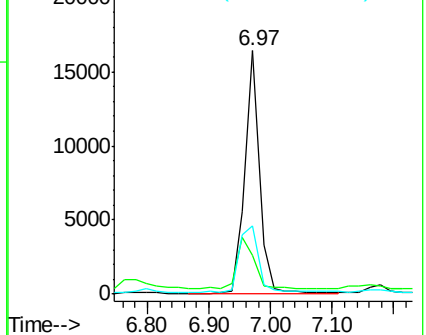
71 36.5 29.0 43.4

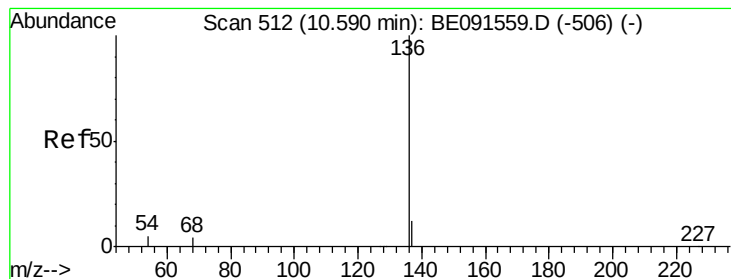


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

Tgt Ion:136 Resp: 184608

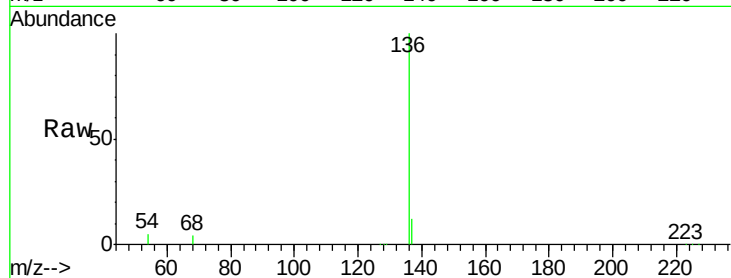
Ion Ratio Lower Upper

136 100

137 11.9 8.8 13.2

54 4.5 5.2 7.8#

68 3.8 4.1 6.1#

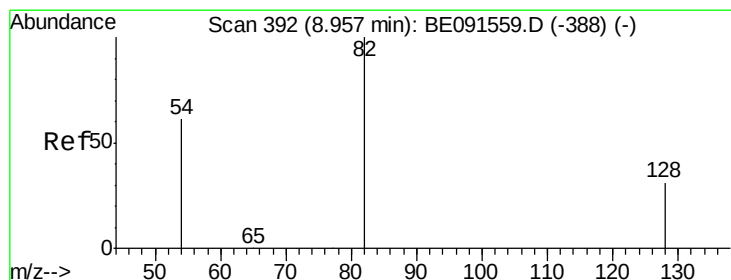
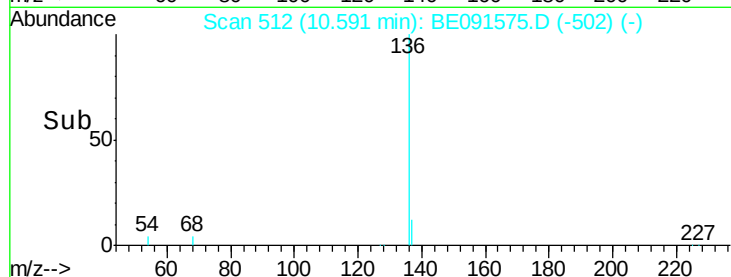
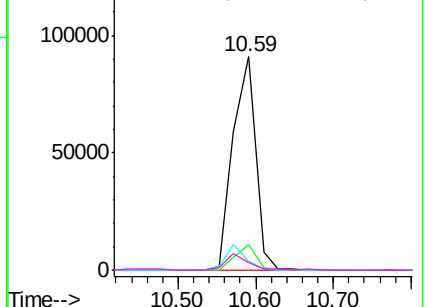


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.71 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

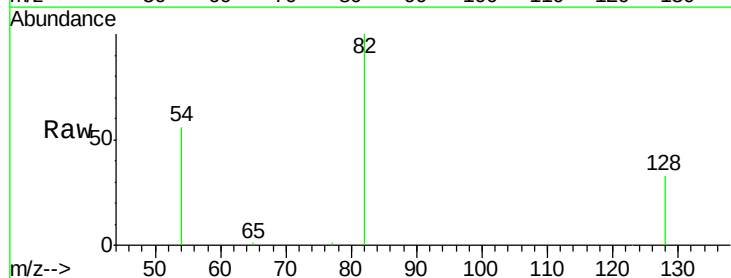
Tgt Ion: 82 Resp: 45951

Ion Ratio Lower Upper

82 100

128 32.6 23.5 35.3

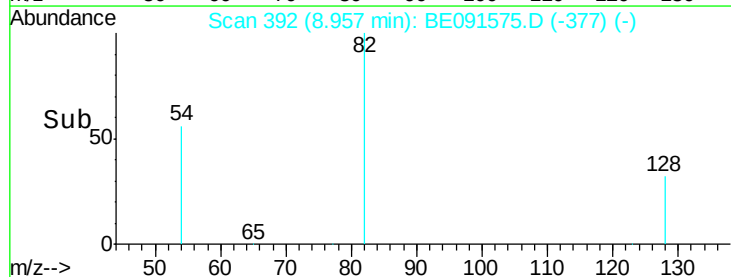
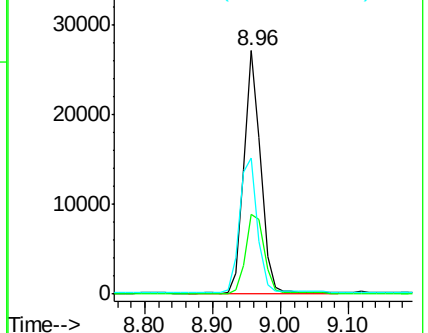
54 56.1 52.4 78.6

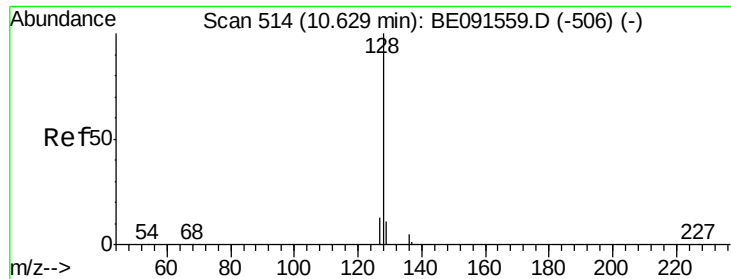


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.02 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

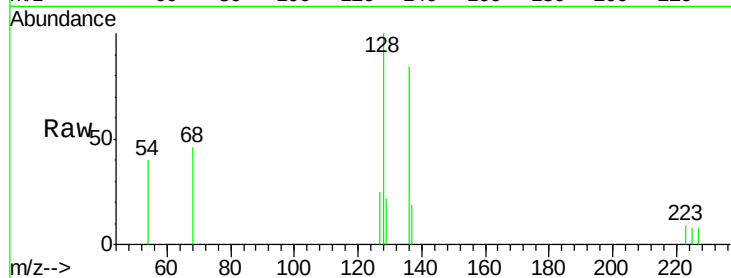
Tgt Ion:128 Resp: 942

Ion Ratio Lower Upper

128 100

129 21.9 8.2 12.2#

127 24.9 11.8 17.8#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.63

600

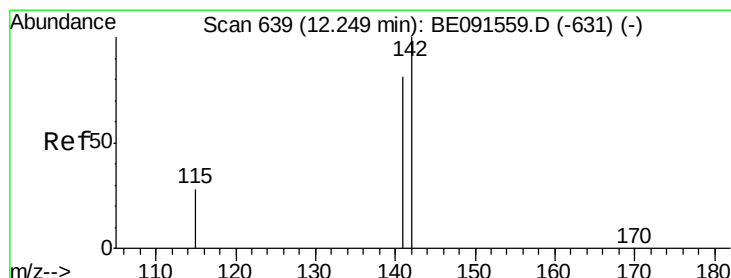
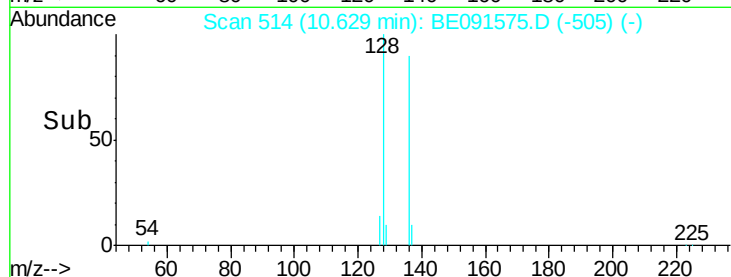
400

200

100

0

Time--> 10.50 10.60 10.70



#9

2-Methylnaphthalene

Concen: 0.01 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

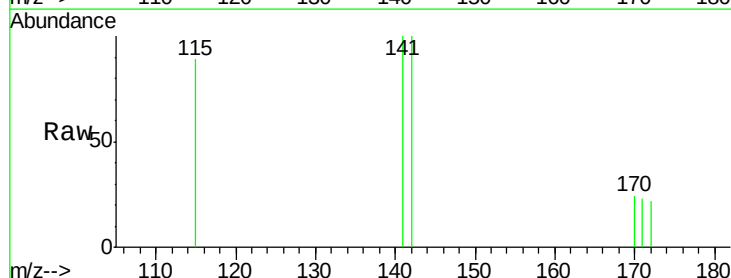
Tgt Ion:142 Resp: 327

Ion Ratio Lower Upper

142 100

141 99.6 66.9 100.3

115 88.6 25.1 37.7#



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

12.24

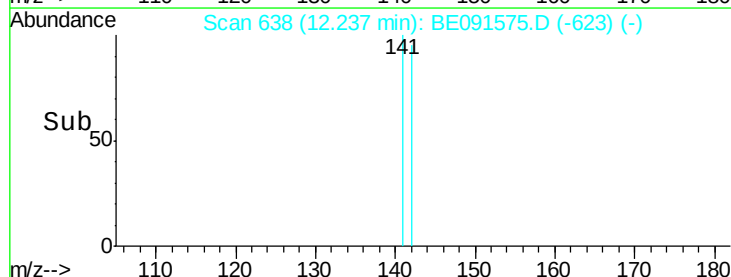
300

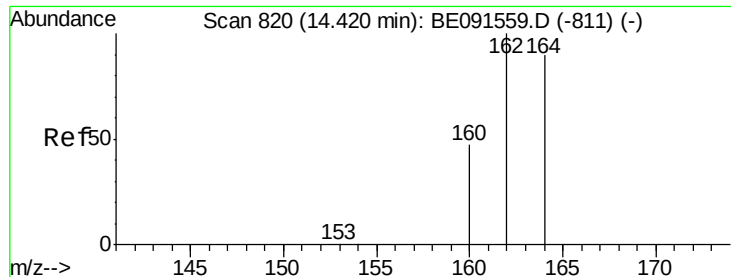
200

100

0

Time--> 12.20 12.25 12.30





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

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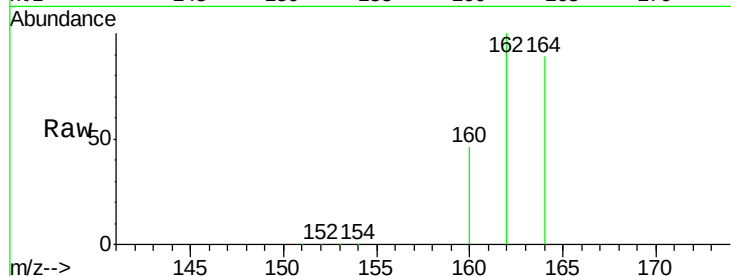
Tgt Ion:164 Resp: 116084

Ion Ratio Lower Upper

164 100

162 111.8 84.4 126.6

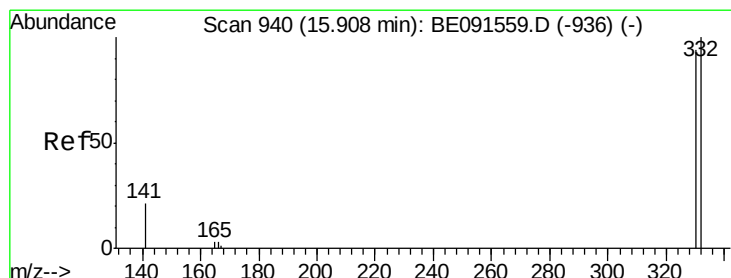
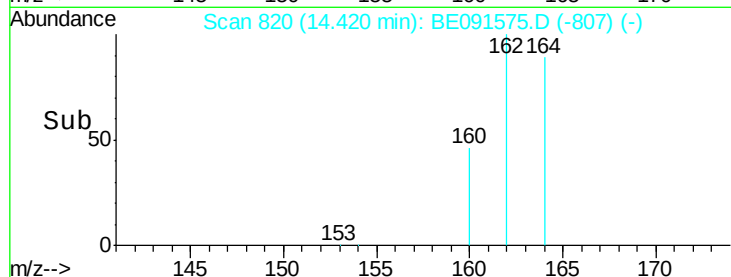
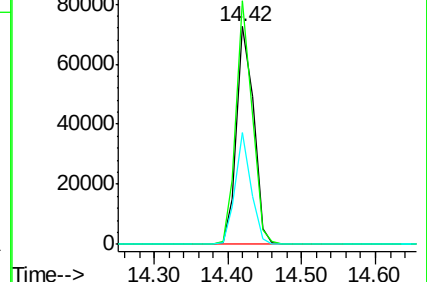
160 51.5 37.7 56.5



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



#11

2,4,6-Tribromophenol

Concen: 7.41 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

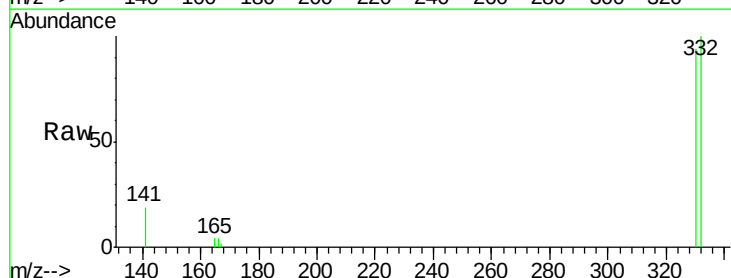
Tgt Ion:330 Resp: 38129

Ion Ratio Lower Upper

330 100

332 96.2 79.2 118.8

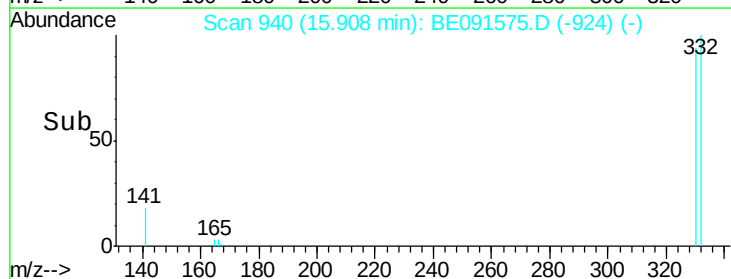
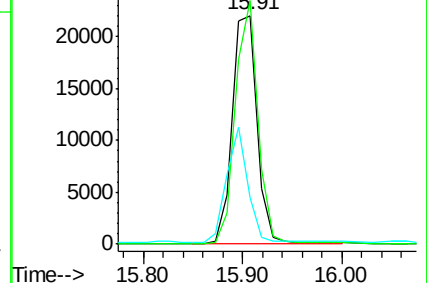
141 42.8 28.1 42.1#

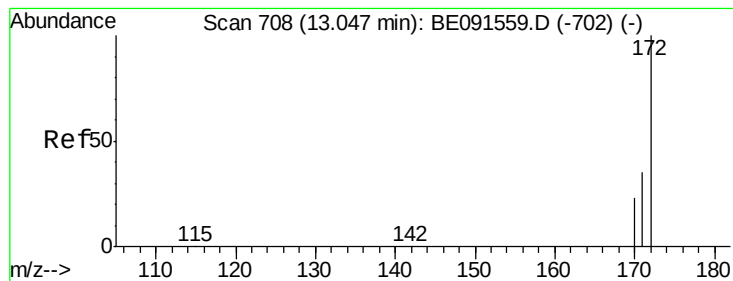


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#12

2-Fluorobiphenyl

Concen: 3.88 ng

RT: 13.05 min Scan# 708

Delta R.T. -0.02 min

Lab File: BE091575.D

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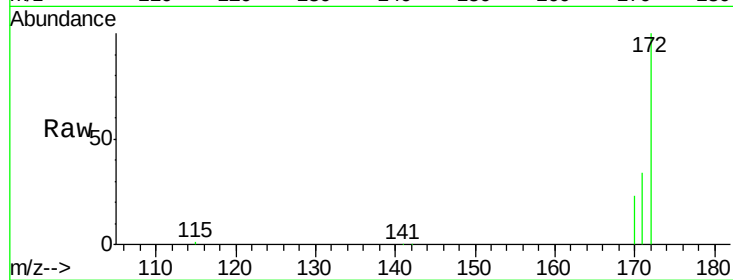
Tgt Ion:172 Resp: 127967

Ion Ratio Lower Upper

172 100

171 34.4 29.8 44.8

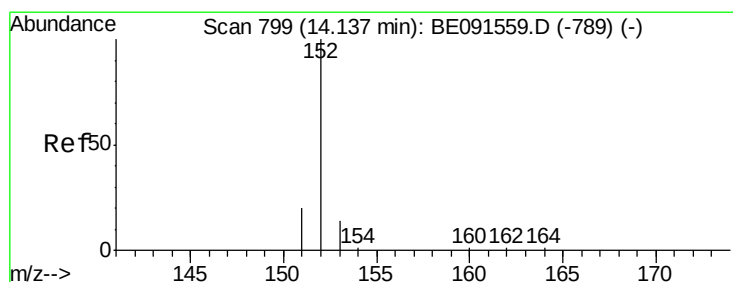
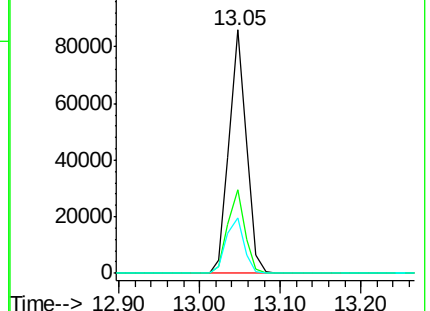
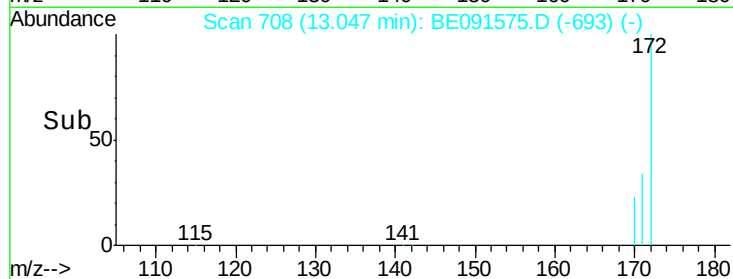
170 22.8 21.4 32.2



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



#13

Acenaphthylene

Concen: 0.01 ng

RT: 14.14 min Scan# 799

Delta R.T. -0.01 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

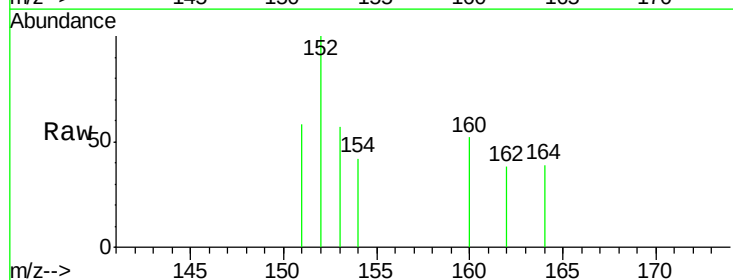
Tgt Ion:152 Resp: 389

Ion Ratio Lower Upper

152 100

151 0.0 16.3 24.5#

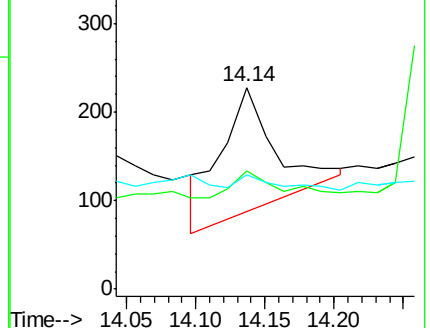
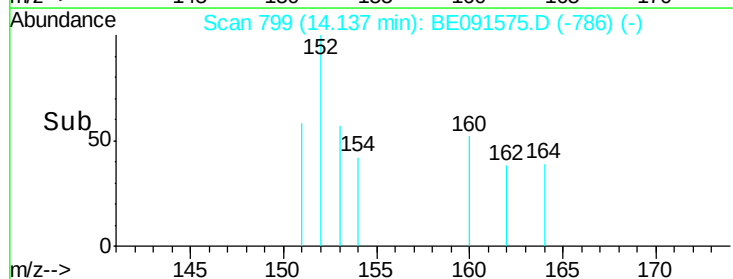
153 0.0 11.1 16.7#

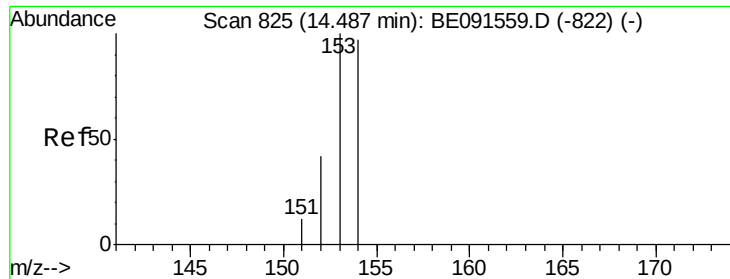


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

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ClientSampleId :

MW-4

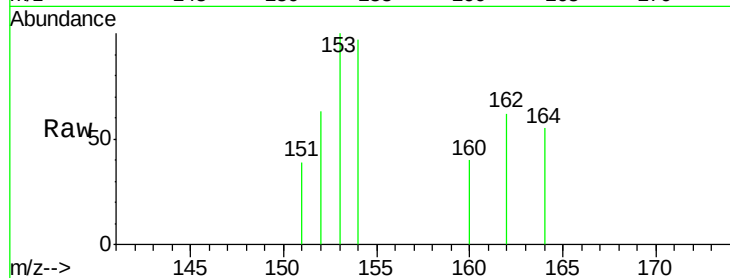
Tgt Ion:154 Resp: 496

Ion Ratio Lower Upper

154 100

153 115.3 87.3 130.9

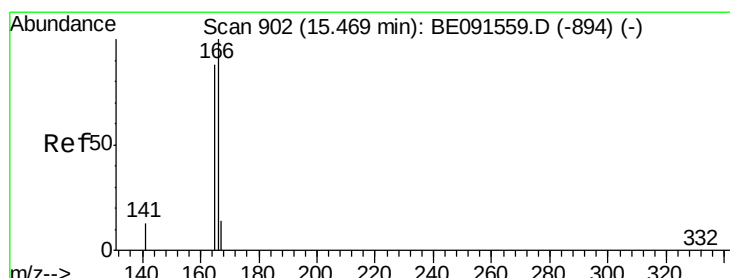
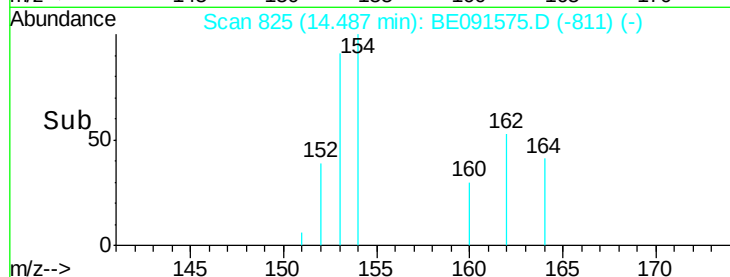
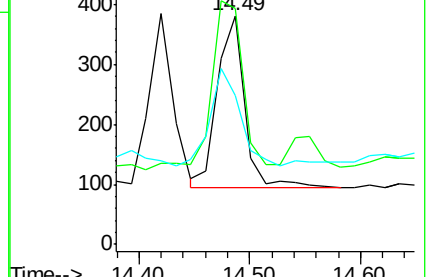
152 61.3 42.9 64.3



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



#15

Fluorene

Concen: 0.02 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

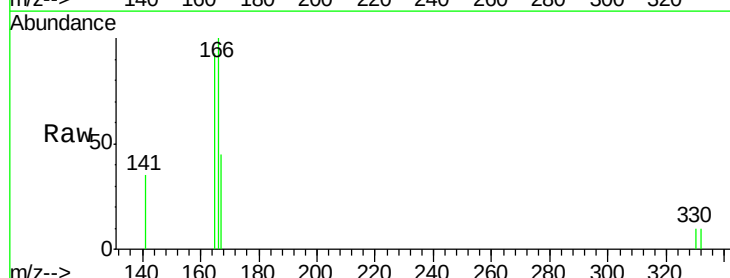
Tgt Ion:166 Resp: 765

Ion Ratio Lower Upper

166 100

165 85.2 79.2 118.8

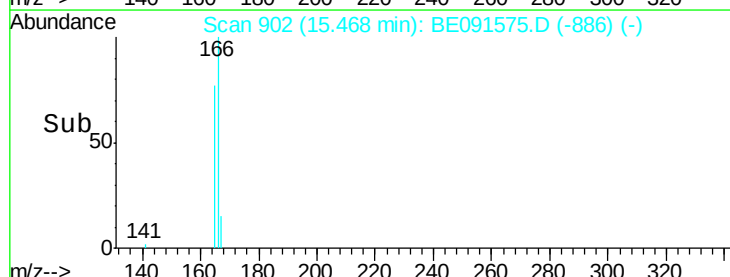
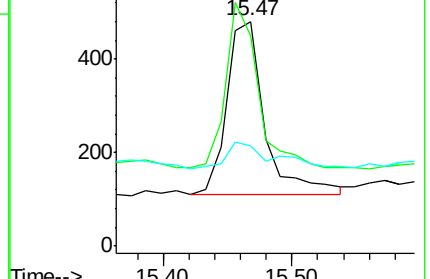
167 20.0 10.8 16.2#

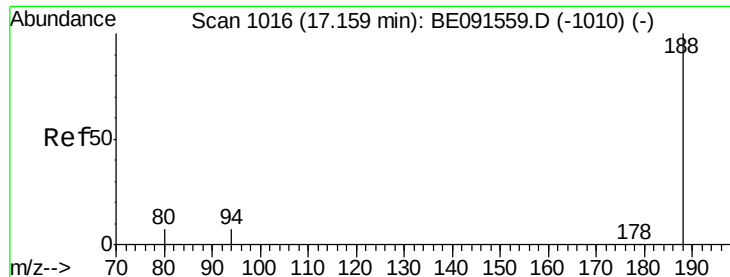


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

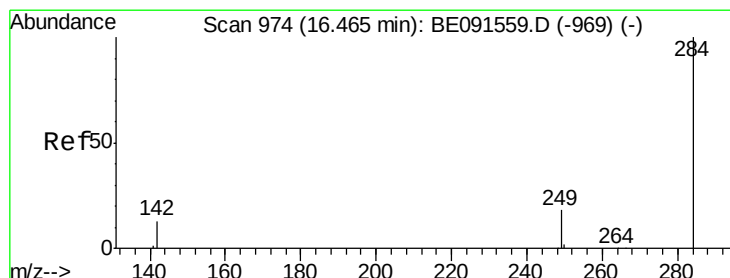
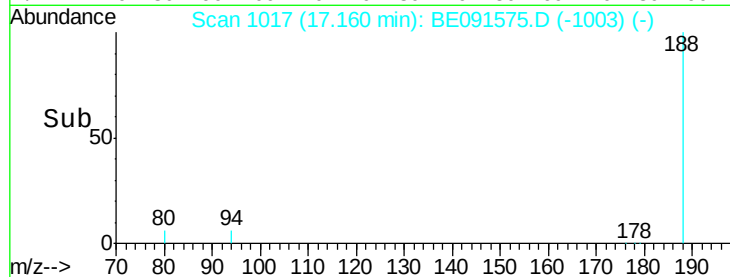
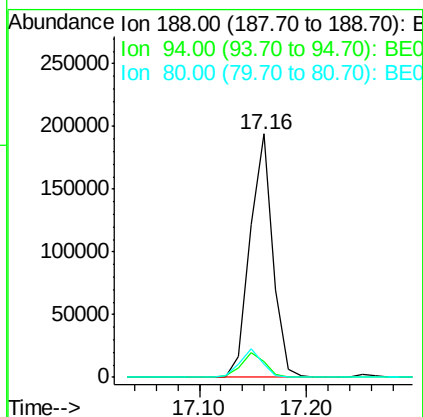
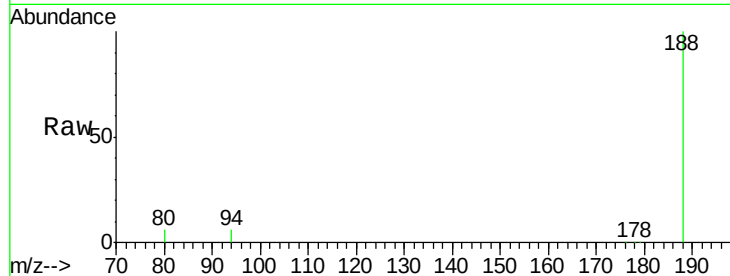




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091575.D
Acq: 31 Mar 2016 4:08

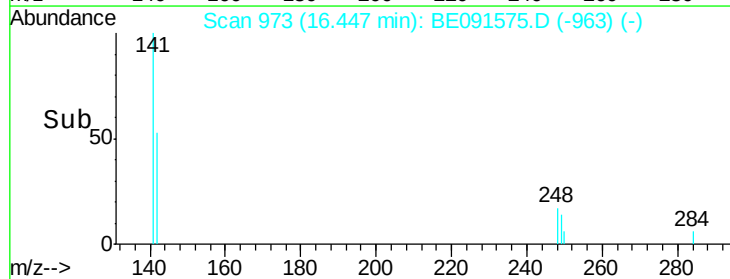
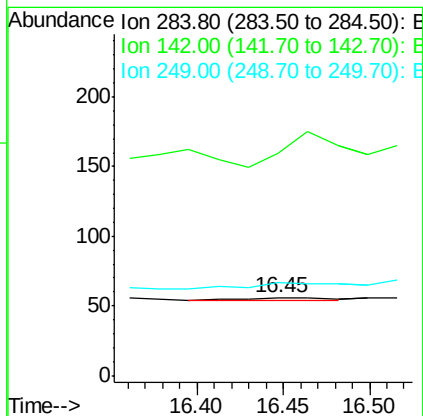
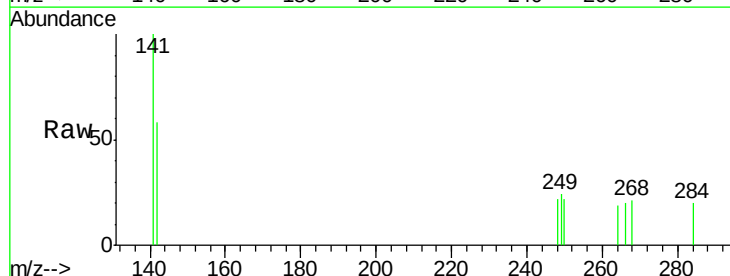
Instrument :
BNA_E
ClientSampleId :
MW-4

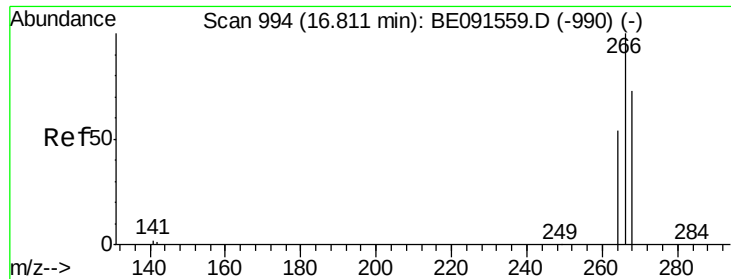
Tgt Ion:188 Resp: 285686
Ion Ratio Lower Upper
188 100
94 6.5 5.4 8.2
80 5.6 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.45 min Scan# 973
Delta R.T. -0.03 min
Lab File: BE091575.D
Acq: 31 Mar 2016 4:08

Tgt Ion:284 Resp: 7
Ion Ratio Lower Upper
284 100
142 928.6 31.0 46.4#
249 285.7 25.8 38.8#

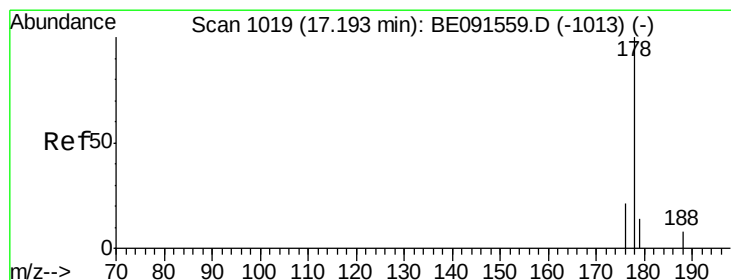
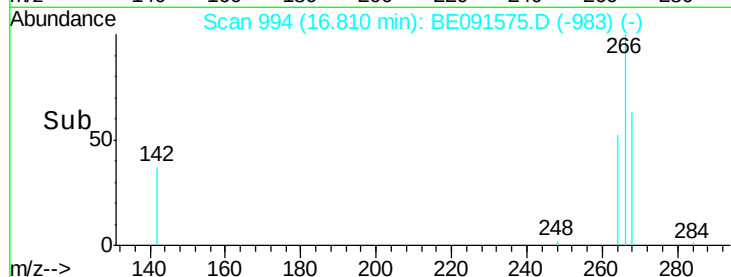
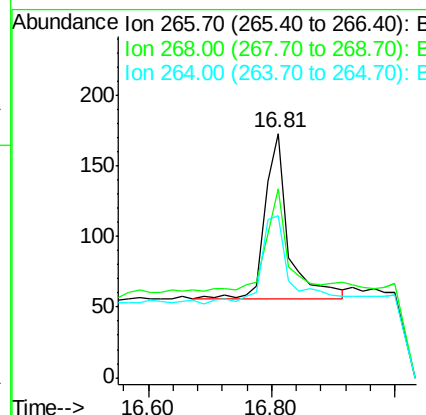
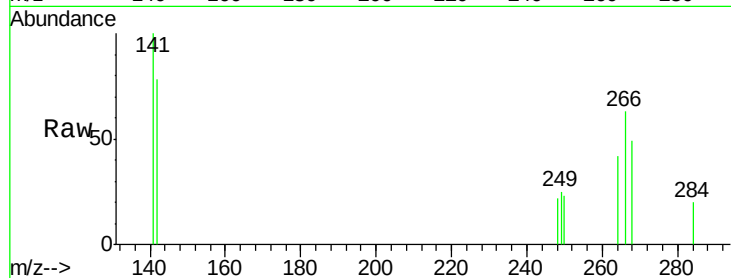




#18
 Pentachlorophenol
 Concen: 0.05 ng
 RT: 16.81 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BE091575.D
 Acq: 31 Mar 2016 4:08

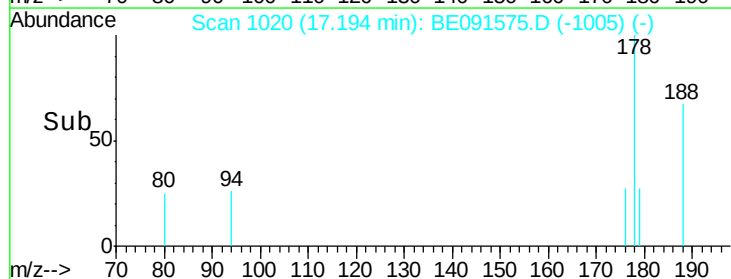
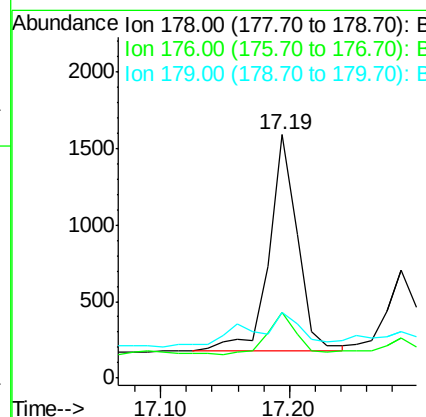
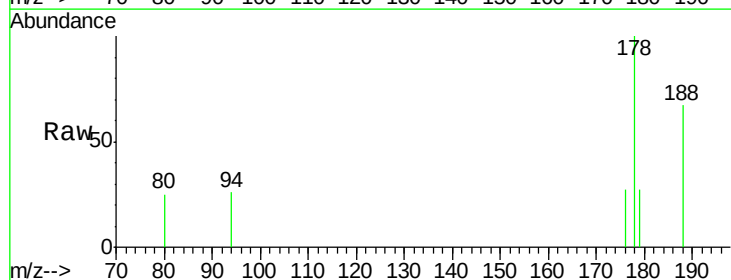
Instrument :
 BNA_E
 ClientSampleId :
 MW-4

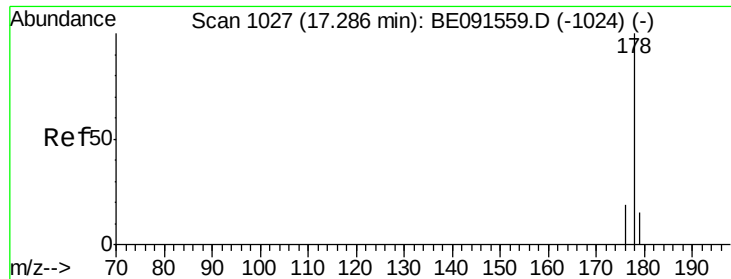
Tgt Ion:266 Resp: 311
 Ion Ratio Lower Upper
 266 100
 268 77.5 48.2 72.2#
 264 66.5 52.1 78.1



#19
 Phenanthrene
 Concen: 0.03 ng
 RT: 17.19 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BE091575.D
 Acq: 31 Mar 2016 4:08

Tgt Ion:178 Resp: 2149
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.5 23.3
 179 24.7 13.1 19.7#





#20

Anthracene

Concen: 0.01 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

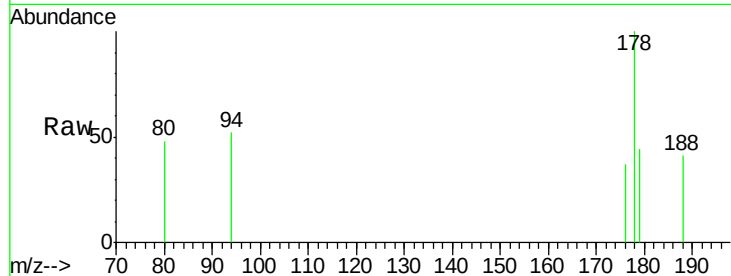
Tgt Ion:178 Resp: 913

Ion Ratio Lower Upper

178 100

176 17.3 14.9 22.3

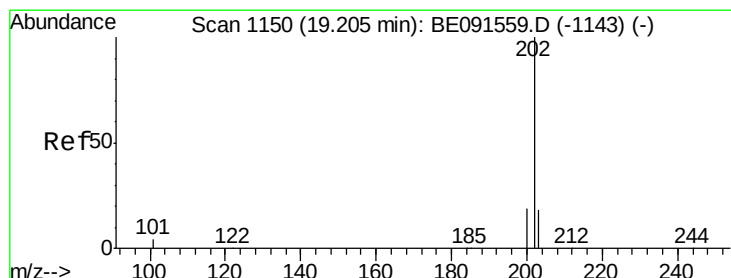
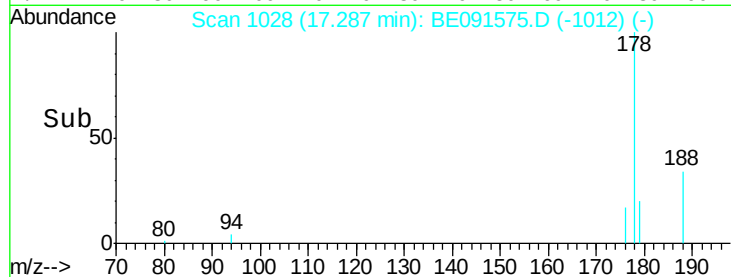
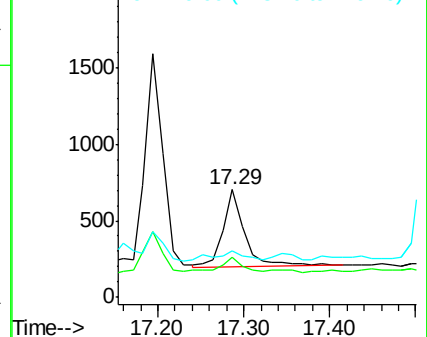
179 19.3 12.2 18.4#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#21

Fluoranthene

Concen: 0.01 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

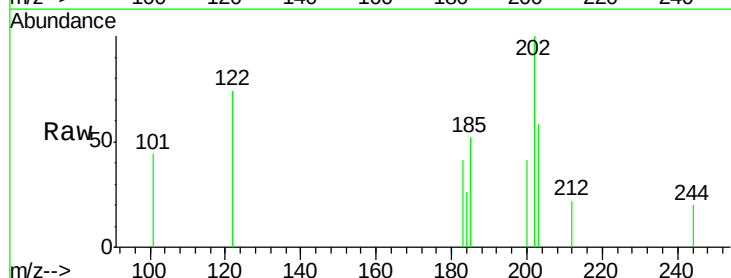
Tgt Ion:202 Resp: 1035

Ion Ratio Lower Upper

202 100

101 42.9 8.3 12.5#

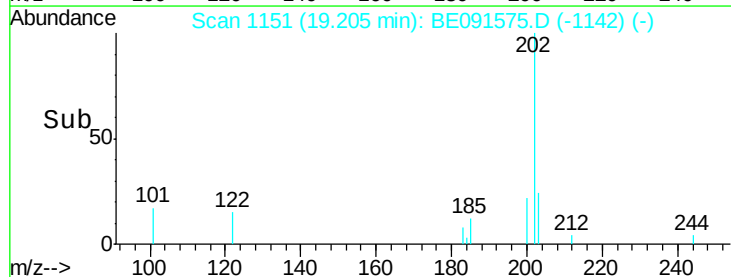
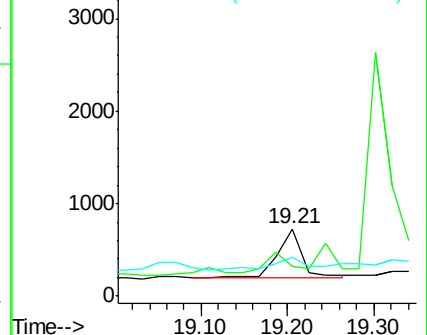
203 35.3 13.9 20.9#

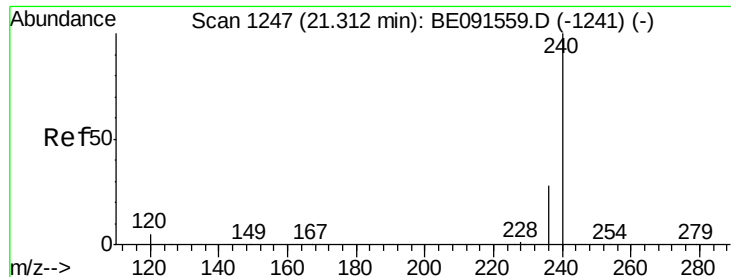


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

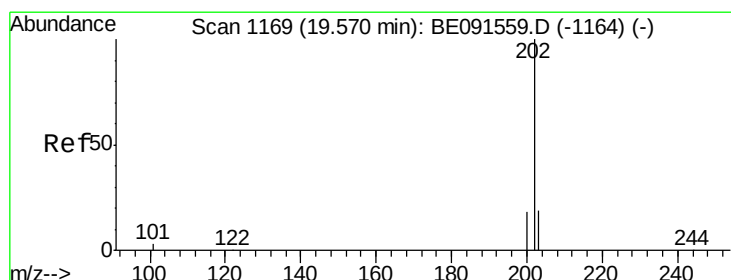
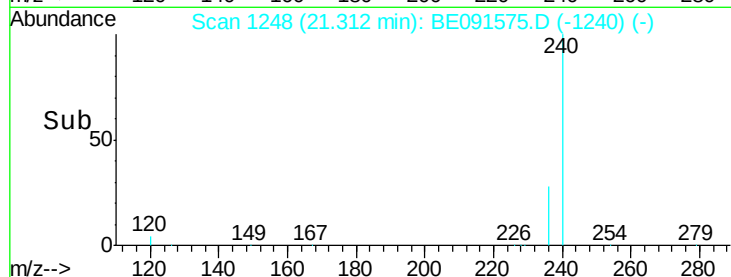
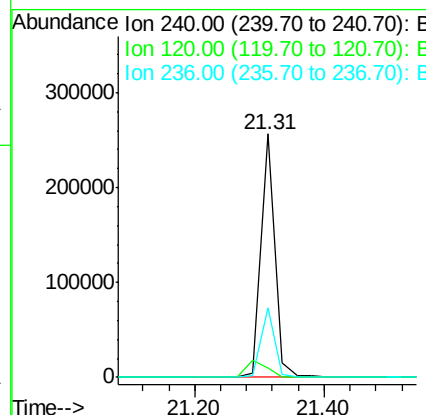
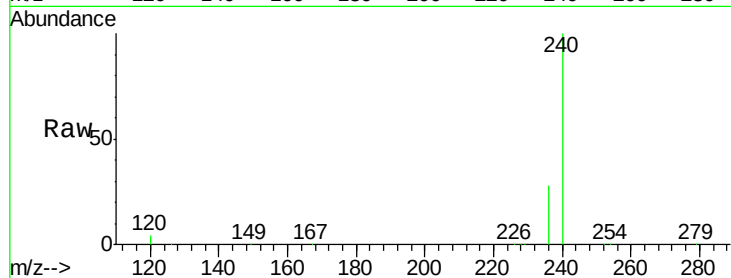




#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091575.D
Acq: 31 Mar 2016 4:08

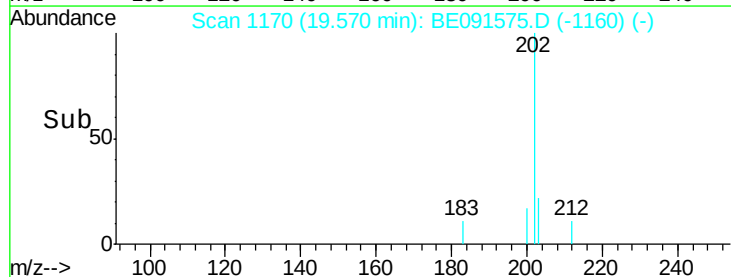
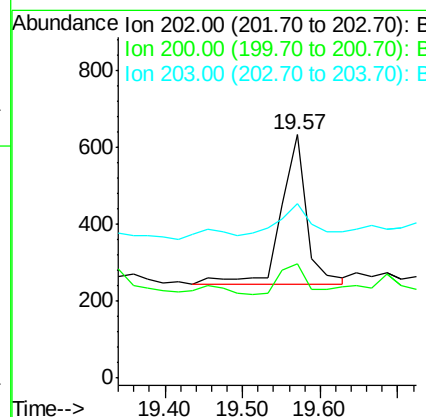
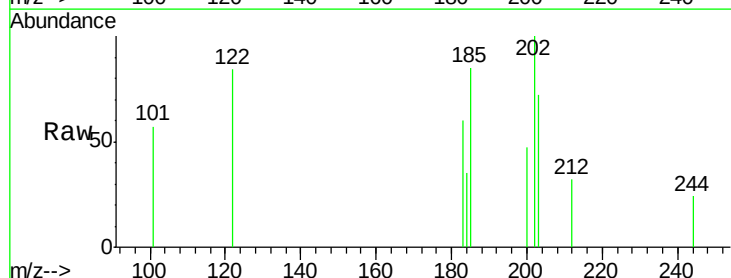
Instrument :
BNA_E
ClientSampleId :
MW-4

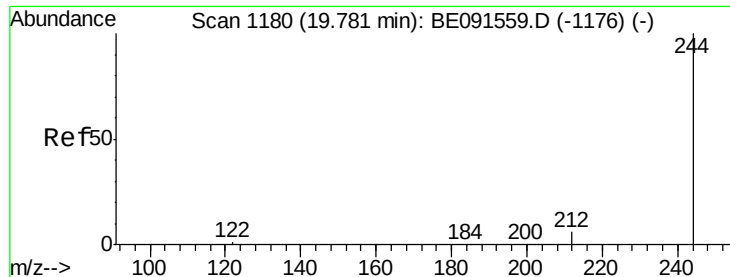
Tgt Ion:240 Resp: 387479
Ion Ratio Lower Upper
240 100
120 3.8 4.0 6.0#
236 28.4 23.0 34.4



#23
Pyrene
Concen: 0.01 ng
RT: 19.57 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BE091575.D
Acq: 31 Mar 2016 4:08

Tgt Ion:202 Resp: 904
Ion Ratio Lower Upper
202 100
200 22.3 16.4 24.6
203 26.7 14.6 21.8#





#24

Terphenyl-d14

Concen: 4.65 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

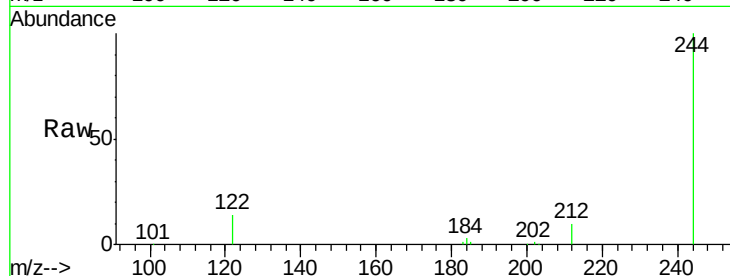
Tgt Ion:244 Resp: 228865

Ion Ratio Lower Upper

244 100

212 9.9 5.8 8.8#

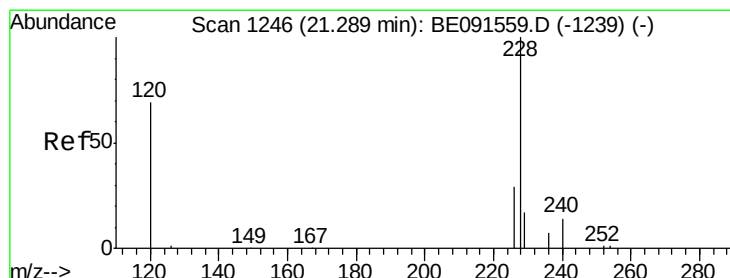
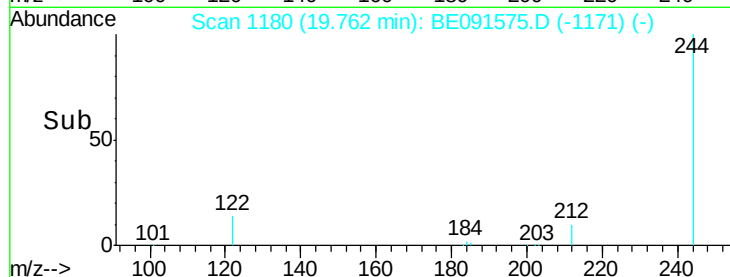
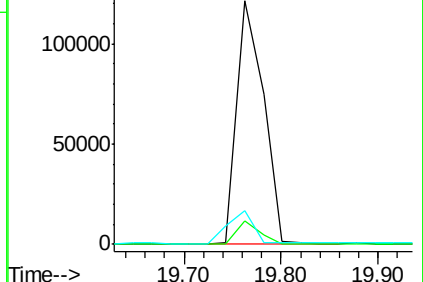
122 14.1 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

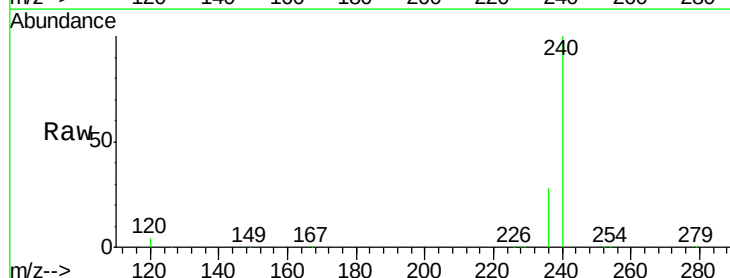
Tgt Ion:228 Resp: 1719

Ion Ratio Lower Upper

228 100

226 33.6 24.0 36.0

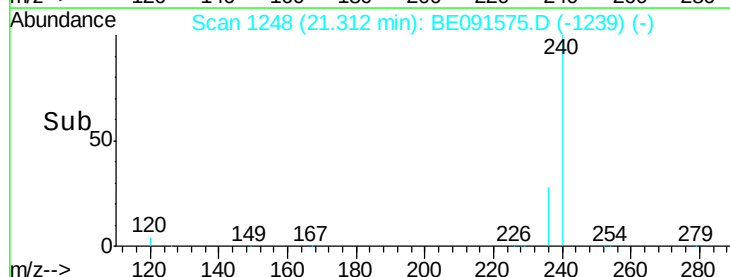
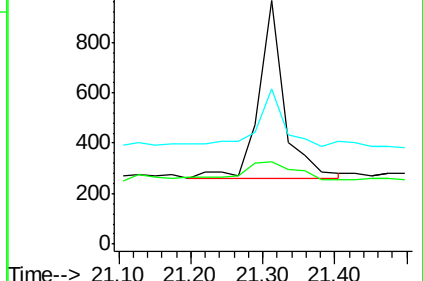
229 63.5 13.8 20.6#

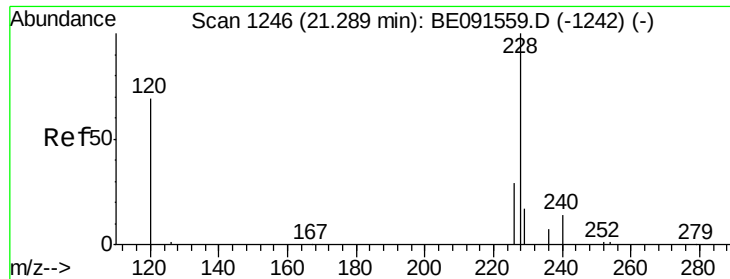


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 0.02 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.05 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampled :

MW-4

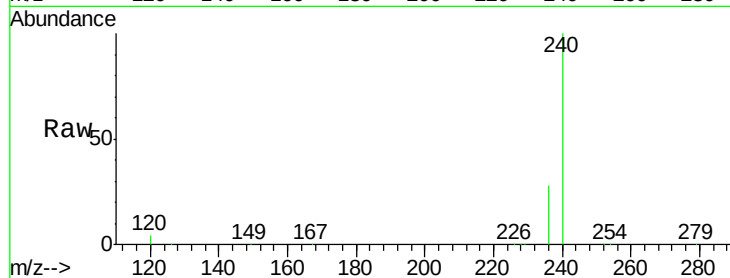
Tgt Ion:228 Resp: 1757

Ion Ratio Lower Upper

228 100

226 33.6 18.9 28.3#

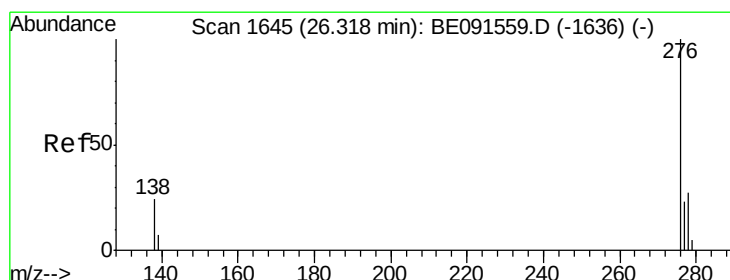
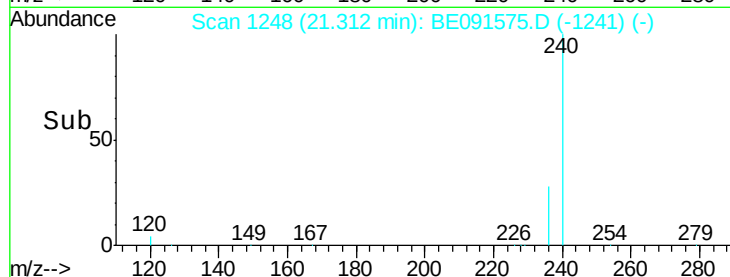
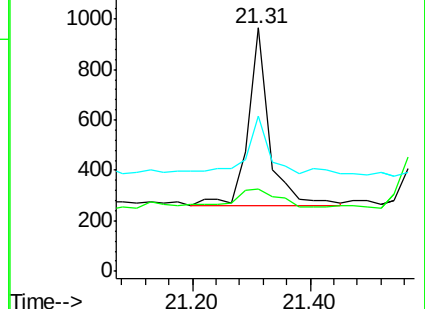
229 63.5 19.1 28.7#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng

RT: 26.32 min Scan# 1646

Delta R.T. -0.06 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

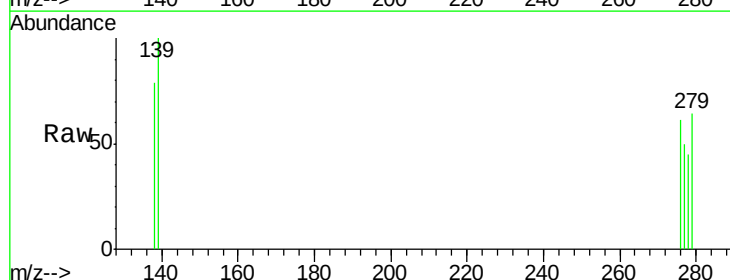
Tgt Ion:276 Resp: 208

Ion Ratio Lower Upper

276 100

138 45.2 20.2 30.4#

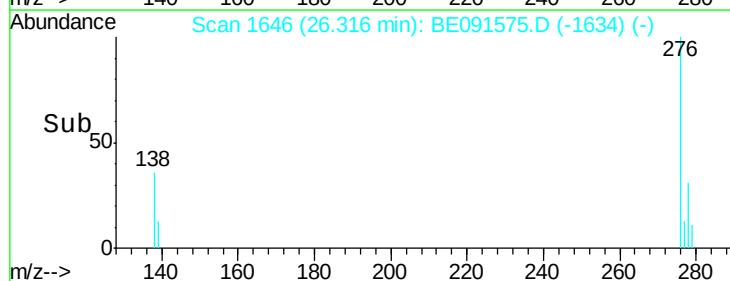
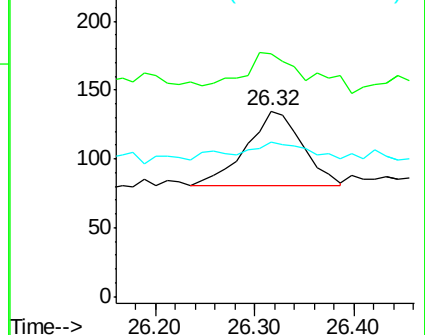
277 29.3 19.8 29.8

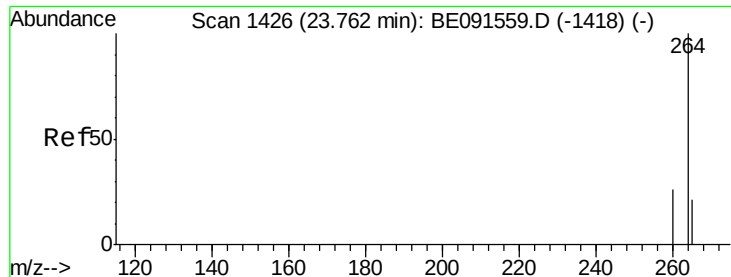


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

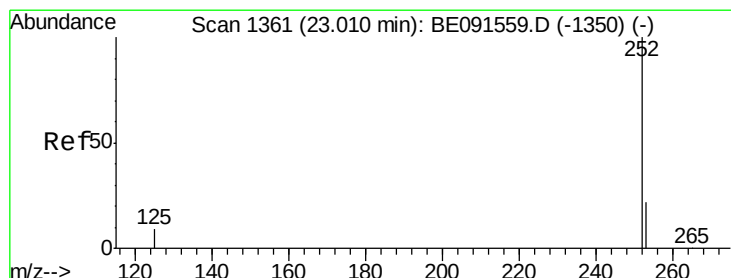
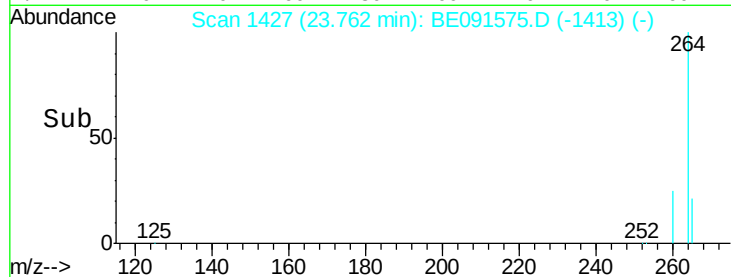
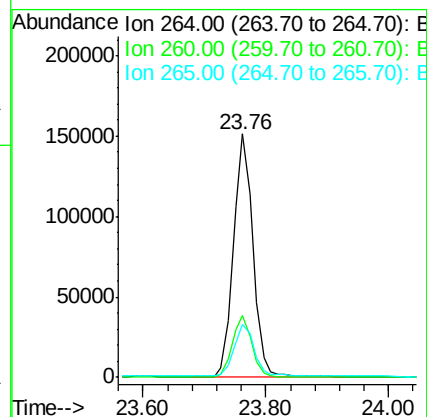
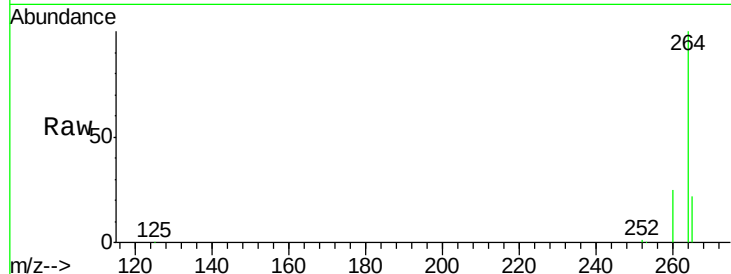




#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. -0.03 min
 Lab File: BE091575.D
 Acq: 31 Mar 2016 4:08

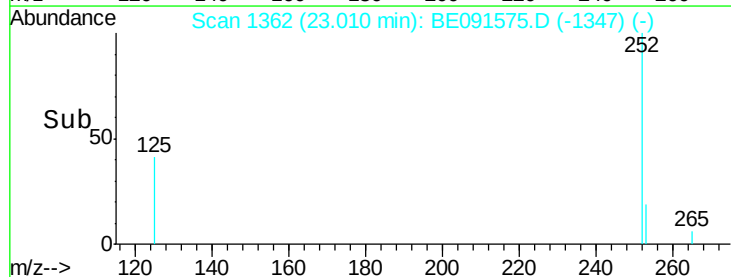
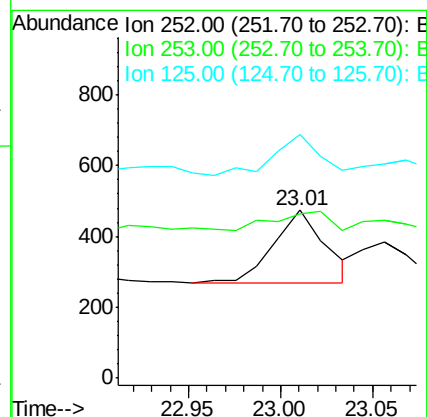
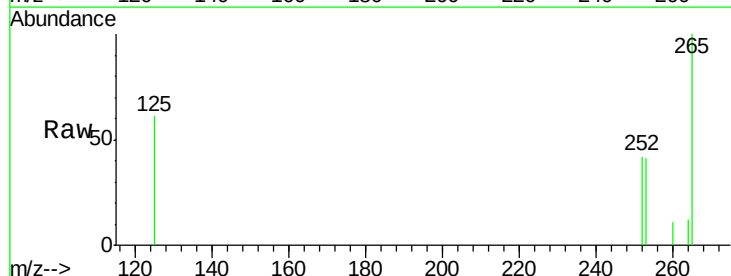
Instrument :
 BNA_E
 ClientSampleId :
 MW-4

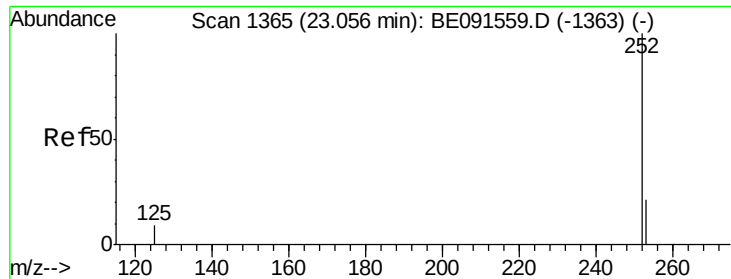
Tgt Ion: 264 Resp: 335160
 Ion Ratio Lower Upper
 264 100
 260 25.3 20.1 30.1
 265 22.0 18.3 27.5



#29
 Benzo(b)fluoranthene
 Concen: 0.01 ng
 RT: 23.01 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: BE091575.D
 Acq: 31 Mar 2016 4:08

Tgt Ion: 252 Resp: 407
 Ion Ratio Lower Upper
 252 100
 253 97.9 18.7 28.1#
 125 145.1 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.07 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

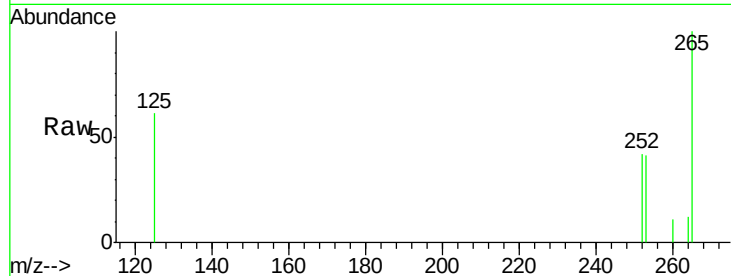
Tgt Ion:252 Resp: 407

Ion Ratio Lower Upper

252 100

253 97.9 20.2 30.4#

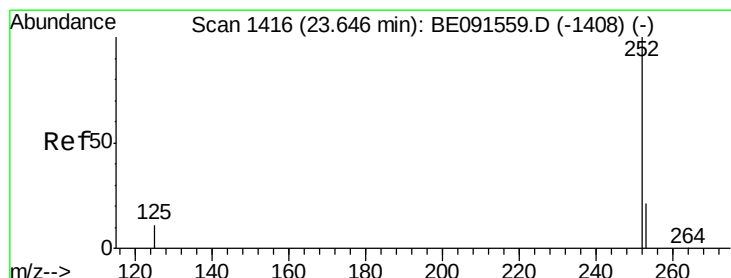
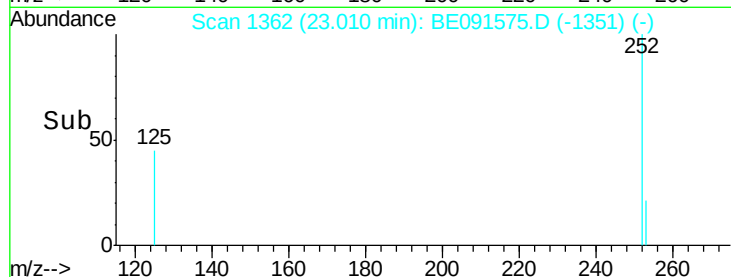
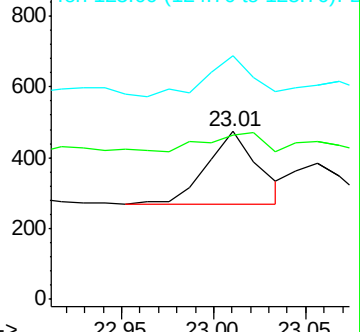
125 145.1 9.4 14.2#



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



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

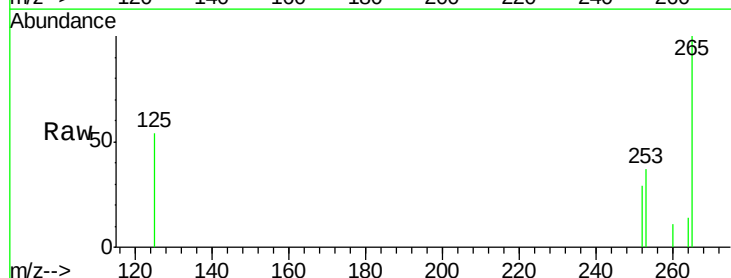
Tgt Ion:252 Resp: 219

Ion Ratio Lower Upper

252 100

253 128.0 19.4 29.0#

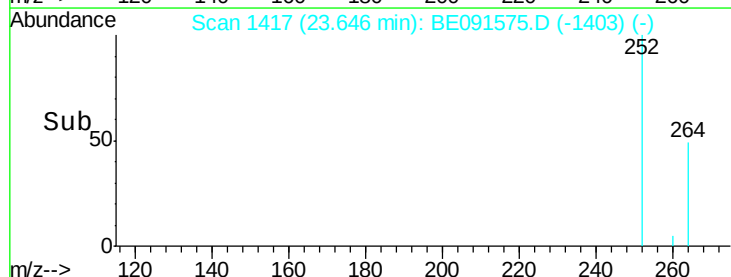
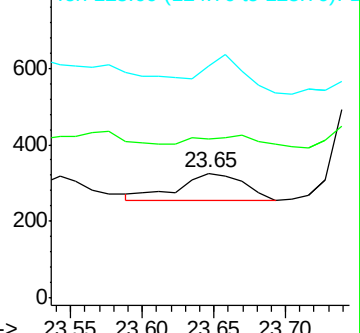
125 185.8 11.4 17.2#

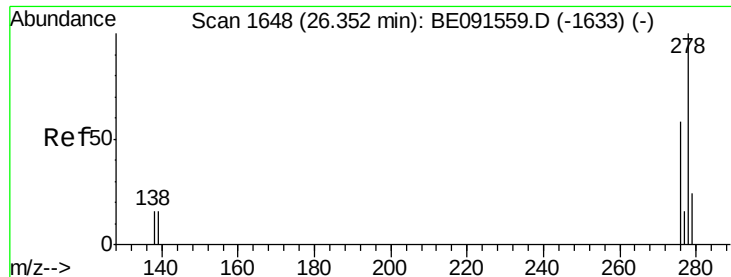


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#32

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.34 min Scan# 1648

Delta R.T. -0.06 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

Instrument :

BNA_E

ClientSampleId :

MW-4

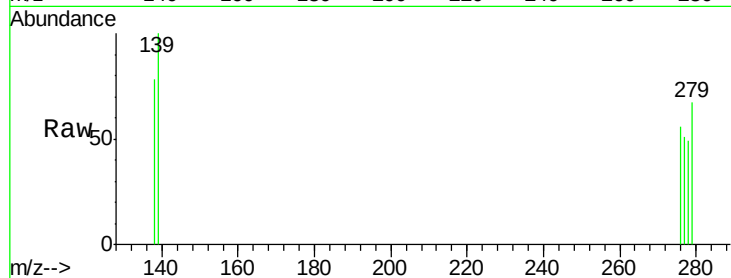
Tgt Ion: 278 Resp: 126

Ion Ratio Lower Upper

278 100

139 202.8 14.2 21.4#

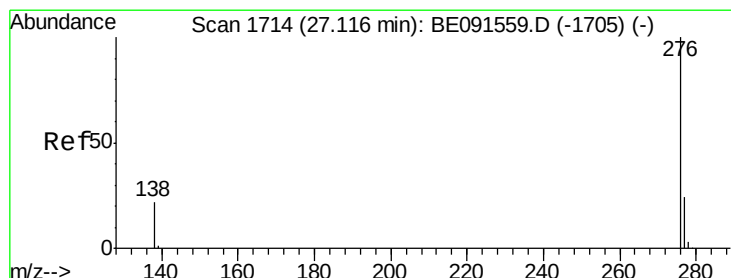
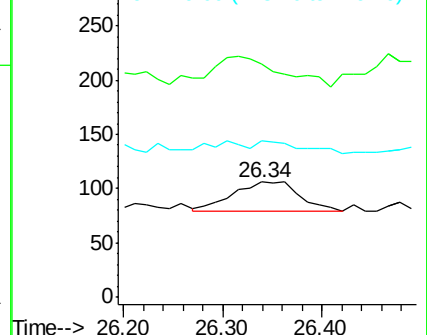
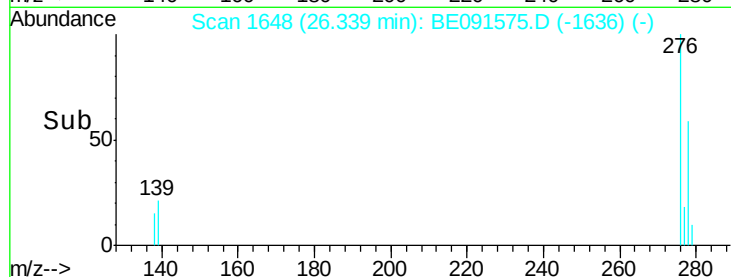
279 135.8 19.6 29.4#



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



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091575.D

Acq: 31 Mar 2016 4:08

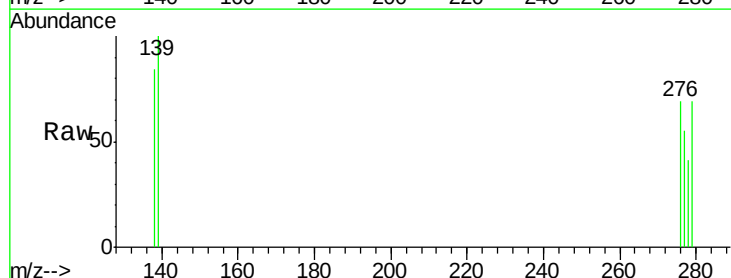
Tgt Ion: 276 Resp: 238

Ion Ratio Lower Upper

276 100

277 80.0 19.4 29.2#

138 121.5 18.2 27.4#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

