

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080316\
 Data File : BE092160.D
 Acq On : 4 Aug 2016 00:30
 Operator : UM/SJ
 Sample : H4176-23
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-23-12.0-15.0

Quant Time: Aug 04 03:58:26 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10127	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	46337	5.00	ng	-0.02
10) Acenaphthene-d10	14.83	164	27455	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	65498	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	84324	5.00	ng	0.00
28) Perylene-d12	24.14	264	83320	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.69	112	184011	70.75	ng	0.00
5) Phenol-d6	7.34	99	175097	50.53	ng	-0.01
7) Nitrobenzene-d5	9.34	82	319958	87.51	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	138764	155.65	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	596456	68.56	ng	0.00
24) Terphenyl-d14	20.21	244	800670	66.12	ng	0.00

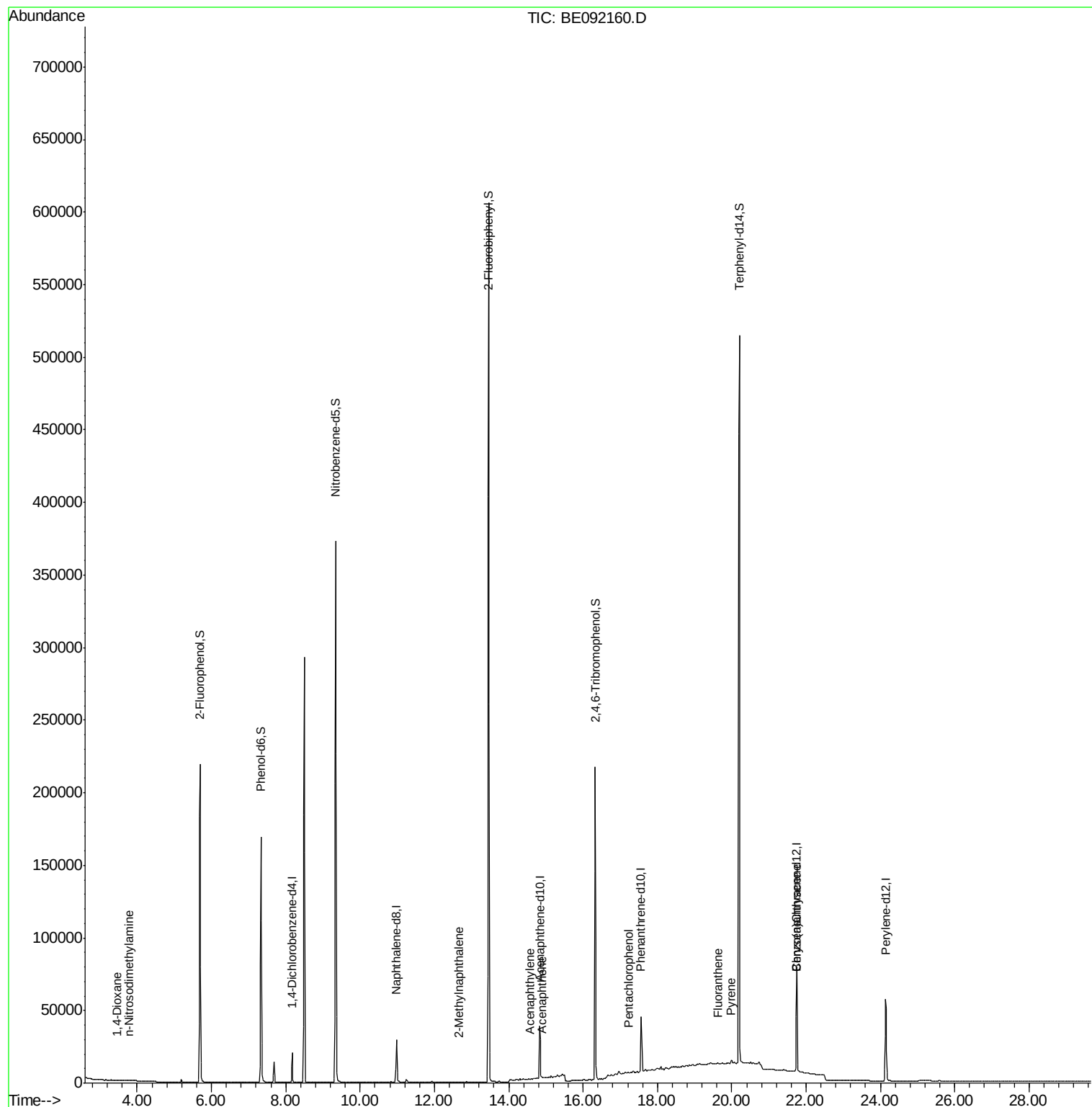
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.45	88	43	0.03	ng	# 20
3) n-Nitrosodimethylamine	3.77	42	19	0.10	ng	# 15
9) 2-Methylnaphthalene	12.65	142	66	0.02	ng	# 1
13) Acenaphthylene	14.56	152	1036	0.02	ng	# 62
14) Acenaphthene	14.90	154	222	0.03	ng	# 1
18) Pentachlorophenol	17.21	266	289	0.43	ng	# 17
21) Fluoranthene	19.63	202	2533	0.03	ng	# 59
23) Pyrene	19.99	202	3696	0.04	ng	# 56
25) Benzo(a)anthracene	21.73	228	2980	0.03	ng	# 1
26) Chrysene	21.73	228	3296	0.04	ng	# 1
30) Benzo(k)fluoranthene	23.46	252	119	Below Cal		# 1

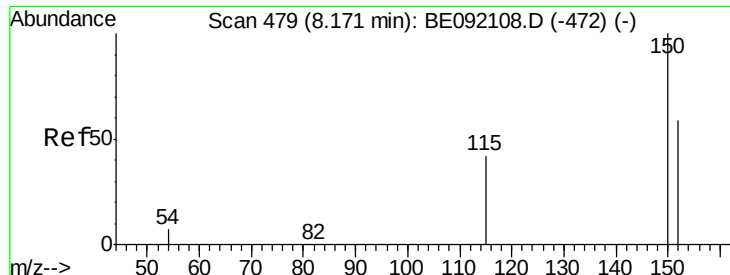
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

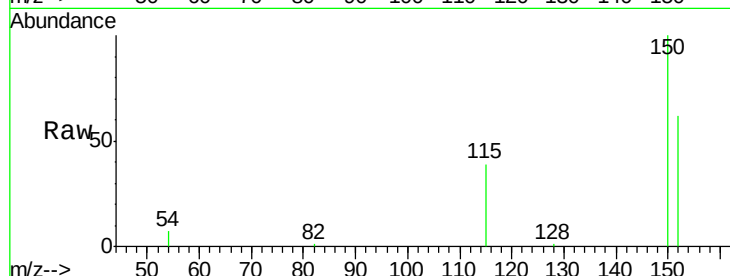
Tgt Ion:152 Resp: 10127

Ion Ratio Lower Upper

152 100

150 161.3 106.0 159.0#

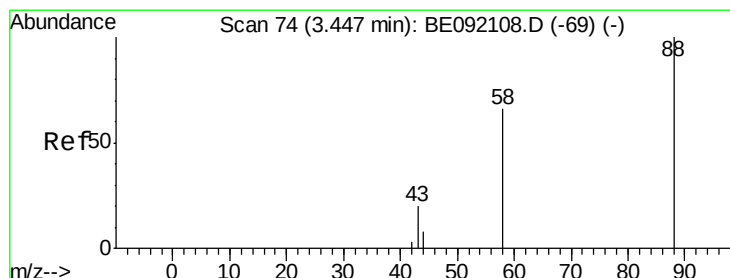
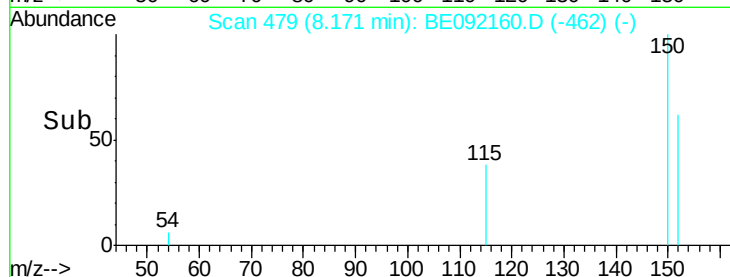
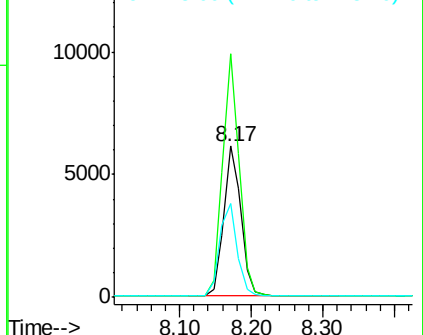
115 62.6 36.9 55.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.03 ng

RT: 3.45 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

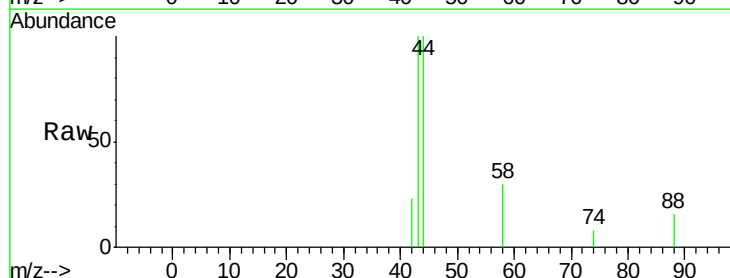
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

58 0.0 62.1 93.1#

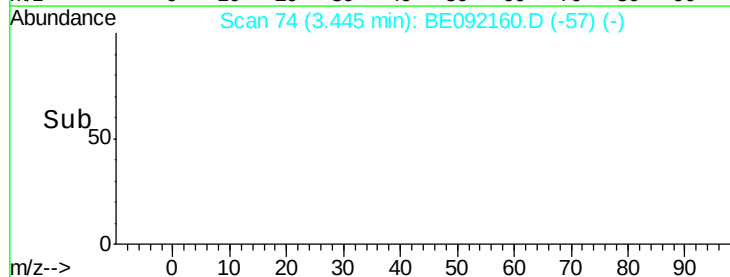
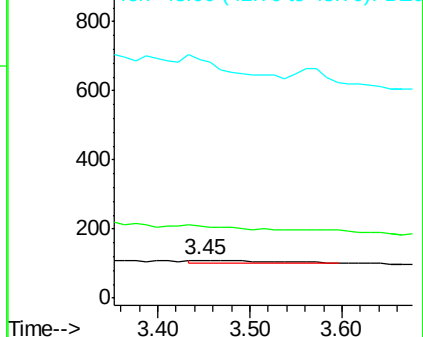
43 0.0 27.2 40.8#

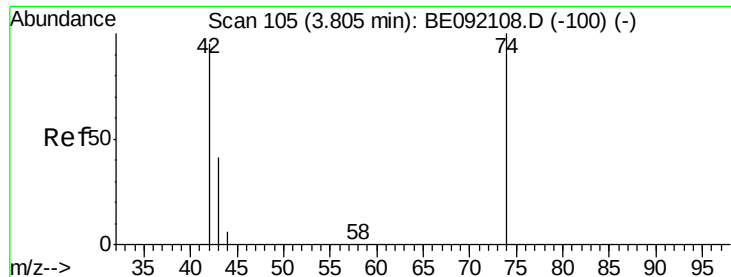


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.10 ng

RT: 3.77 min Scan# 102

Delta R.T. -0.04 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

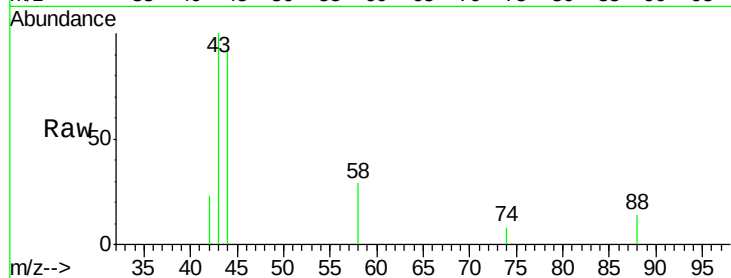
Tgt Ion: 42 Resp: 19

Ion Ratio Lower Upper

42 100

74 10.5 82.8 124.2#

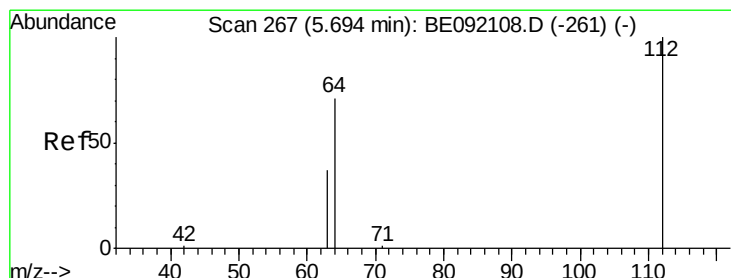
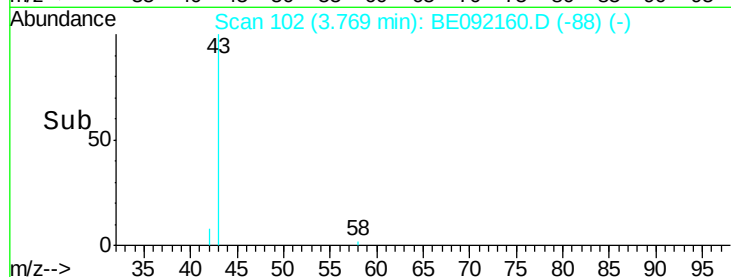
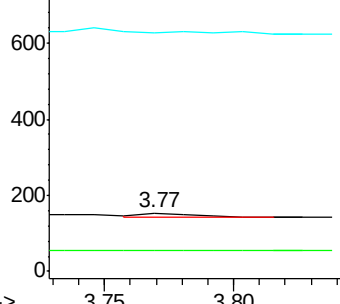
44 0.0 9.0 13.4#



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: 70.75 ng

RT: 5.69 min Scan# 267

Delta R.T. -0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

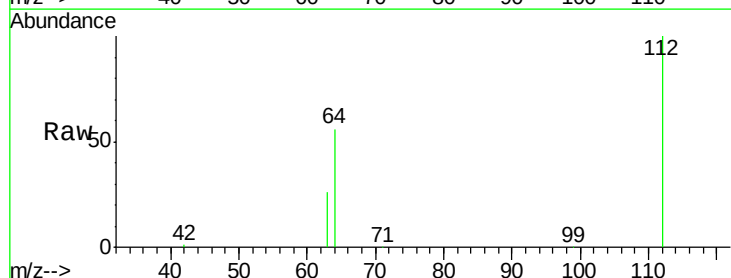
Tgt Ion: 112 Resp: 184011

Ion Ratio Lower Upper

112 100

64 68.6 55.9 83.9

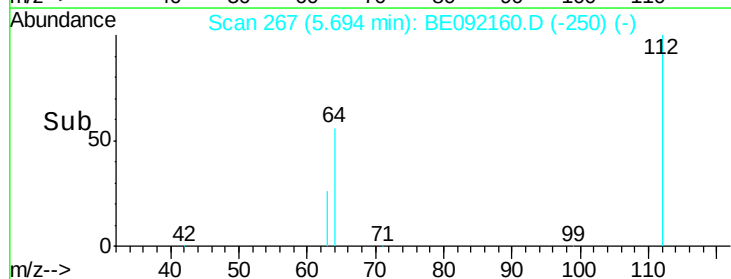
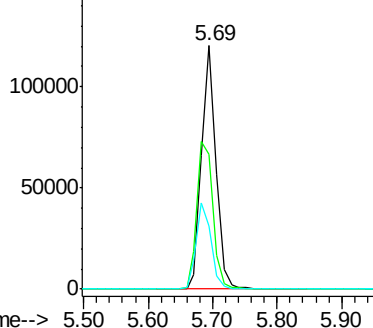
63 36.8 31.1 46.7

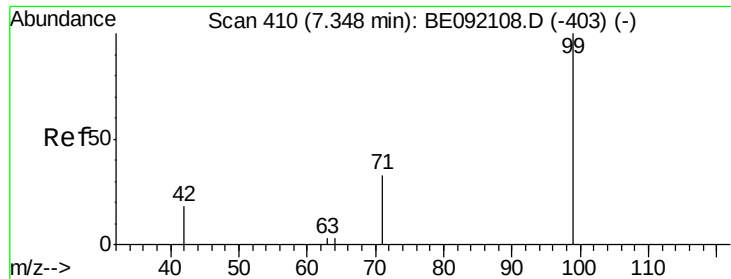


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 50.53 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

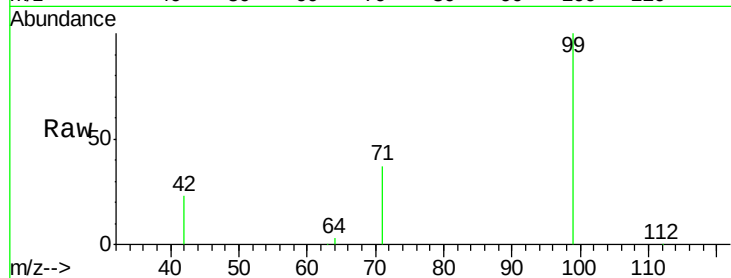
Tgt Ion: 99 Resp: 175097

Ion Ratio Lower Upper

99 100

42 24.5 22.4 33.6

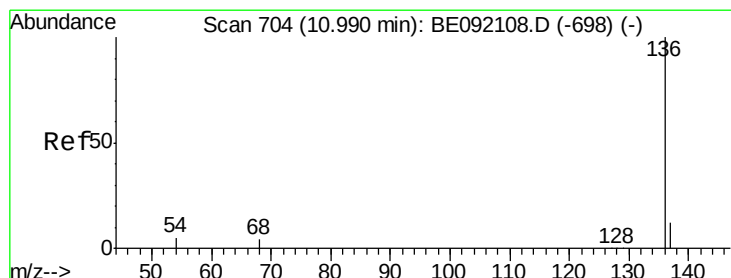
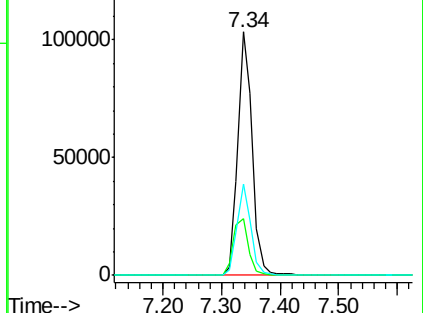
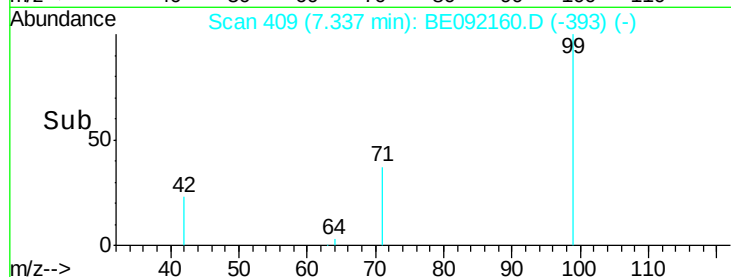
71 36.0 28.9 43.3



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: 10.98 min Scan# 703

Delta R.T. -0.02 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Tgt Ion: 136 Resp: 46337

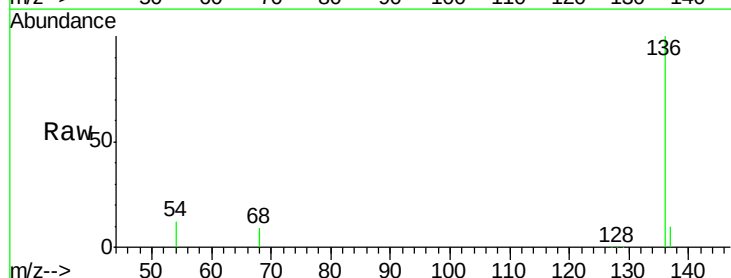
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 12.2 2.7 4.1#

68 9.0 2.2 3.4#

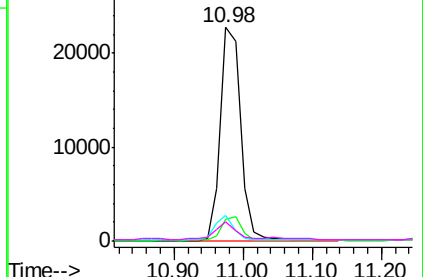
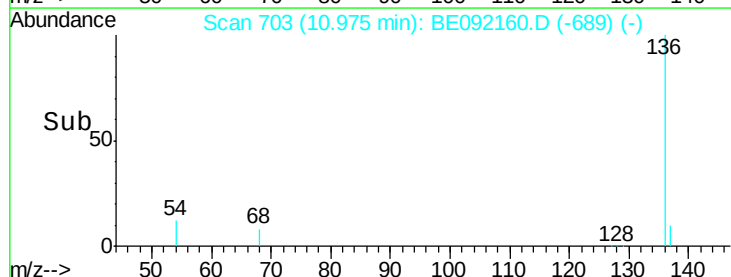


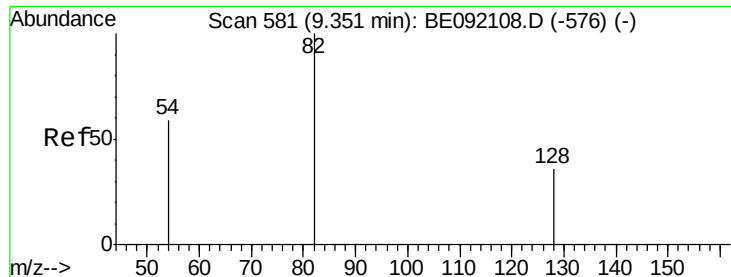
Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.51 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

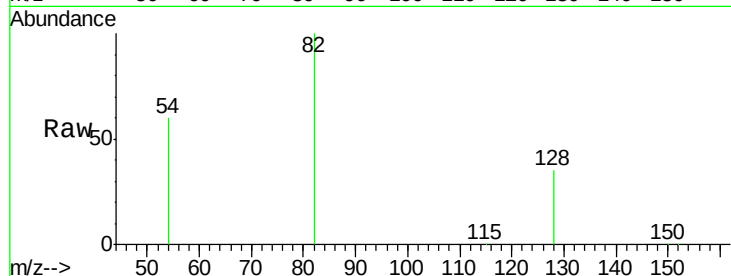
Tgt Ion: 82 Resp: 319958

Ion Ratio Lower Upper

82 100

128 34.9 33.0 49.4

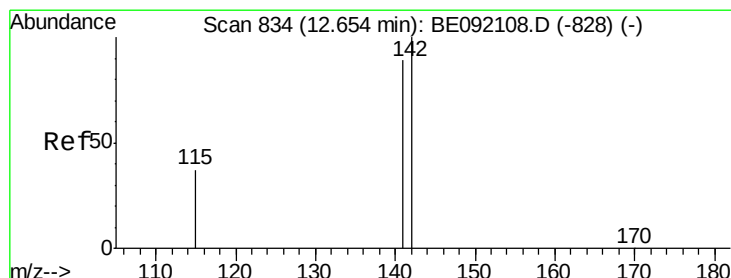
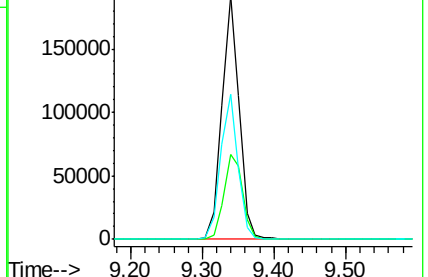
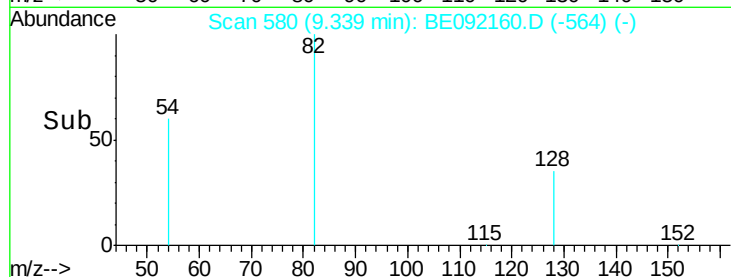
54 59.8 42.6 63.8



Abundance Ion 82.00 (81.70 to 82.70): BE092108.D (-576) (-)

Ion 128.00 (127.70 to 128.70): BE092108.D (-576) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-576) (-)



#9

2-Methylnaphthalene

Concen: 0.02 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

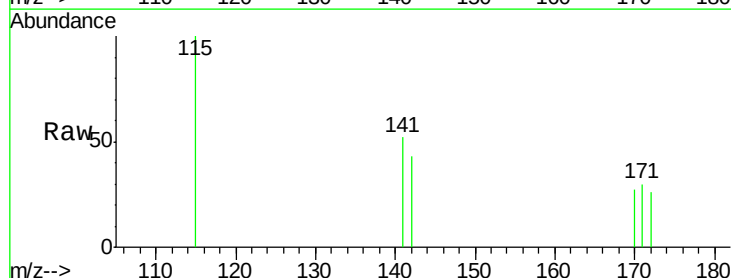
Tgt Ion: 142 Resp: 66

Ion Ratio Lower Upper

142 100

141 120.0 65.1 97.7#

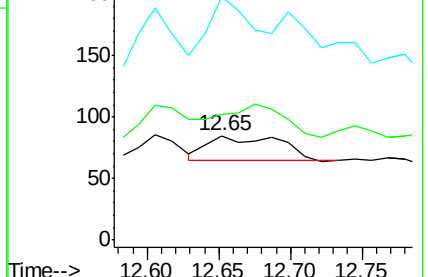
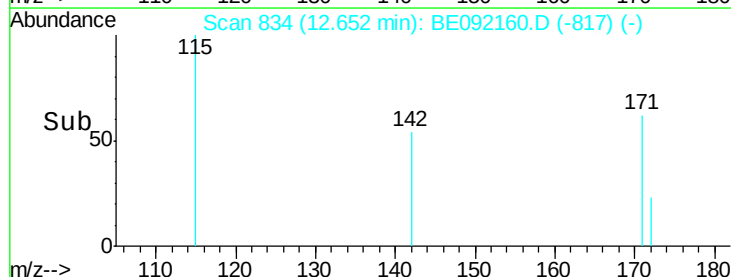
115 232.9 27.0 40.4#

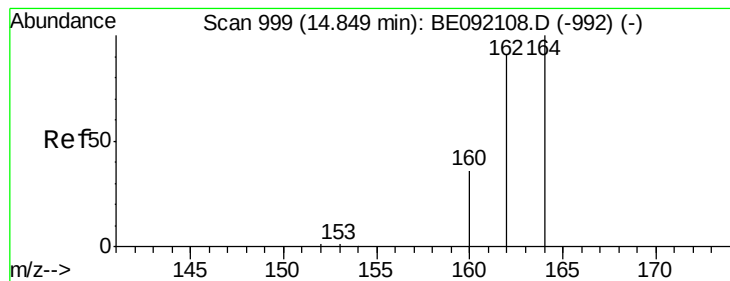


Abundance Ion 142.00 (141.70 to 142.70): BE092108.D (-828) (-)

Ion 141.00 (140.70 to 141.70): BE092108.D (-828) (-)

Ion 115.00 (114.70 to 115.70): BE092108.D (-828) (-)





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

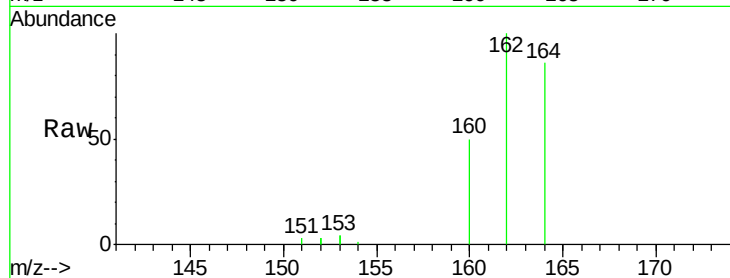
Tgt Ion:164 Resp: 27455

Ion Ratio Lower Upper

164 100

162 115.8 69.5 104.3#

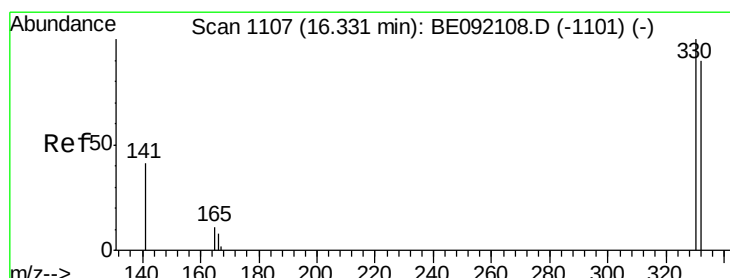
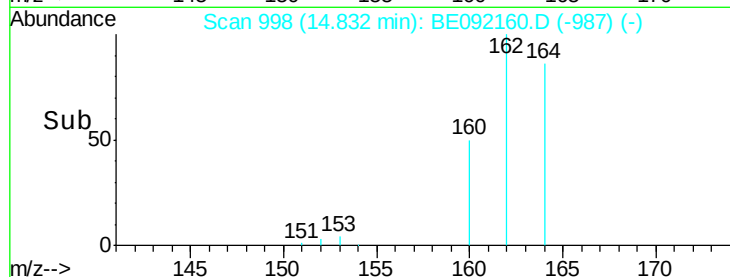
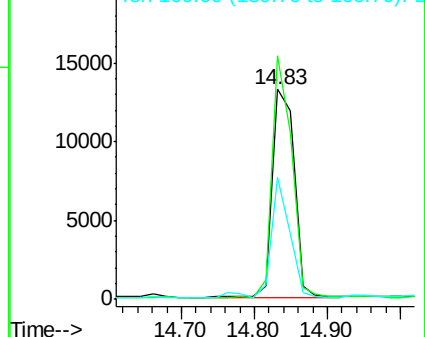
160 58.1 27.6 41.4#



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: 155.65 ng

RT: 16.33 min Scan# 1107

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

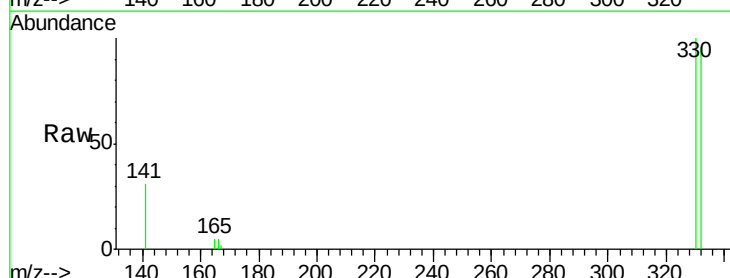
Tgt Ion:330 Resp: 138764

Ion Ratio Lower Upper

330 100

332 96.6 74.2 111.4

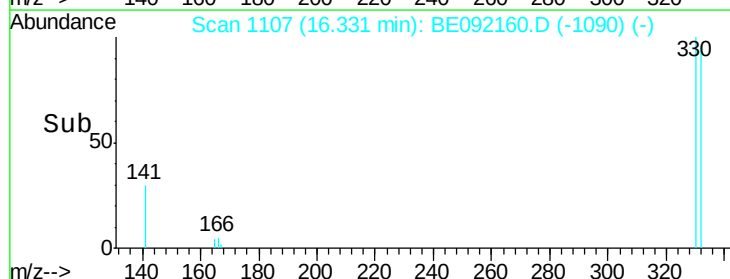
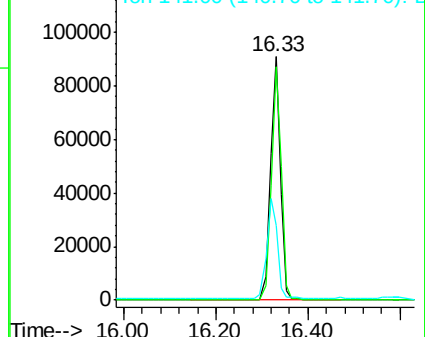
141 43.8 139.8 209.8#

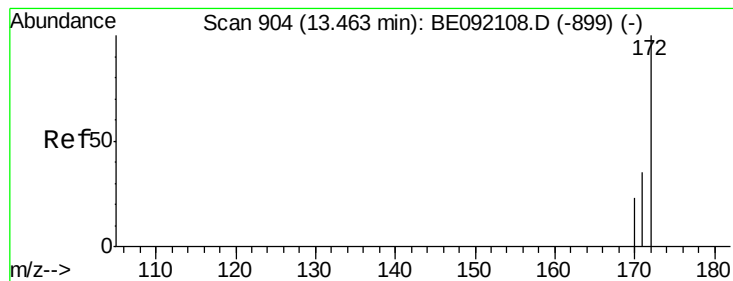


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#12

2-Fluorobiphenyl

Concen: 68.56 ng

RT: 13.46 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

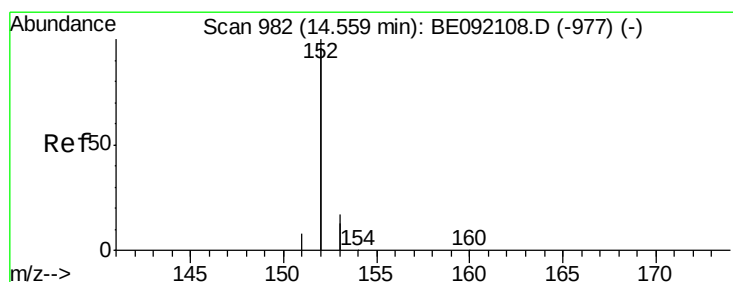
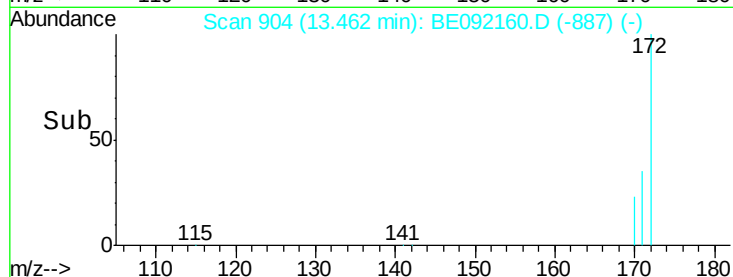
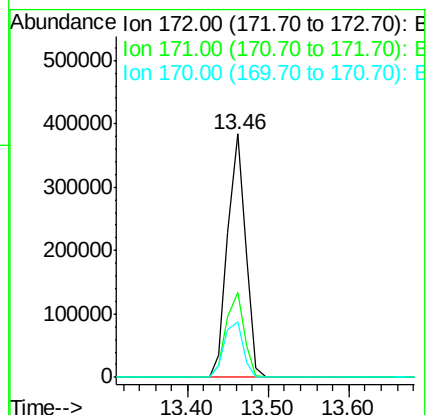
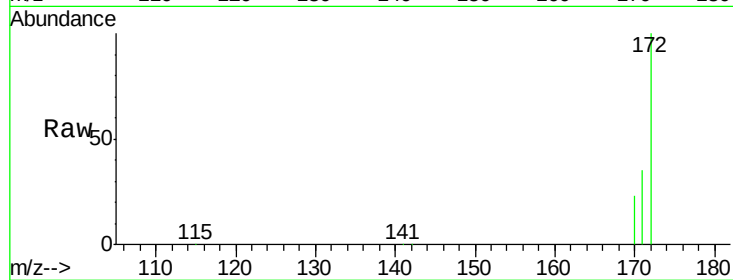
Tgt Ion:172 Resp: 596456

Ion Ratio Lower Upper

172 100

171 34.7 30.3 45.5

170 22.7 21.6 32.4



#13

Acenaphthylene

Concen: 0.02 ng

RT: 14.56 min Scan# 982

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

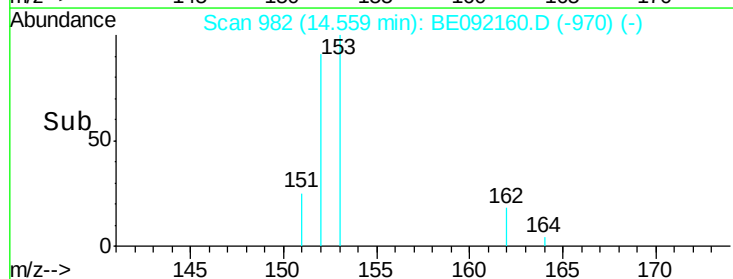
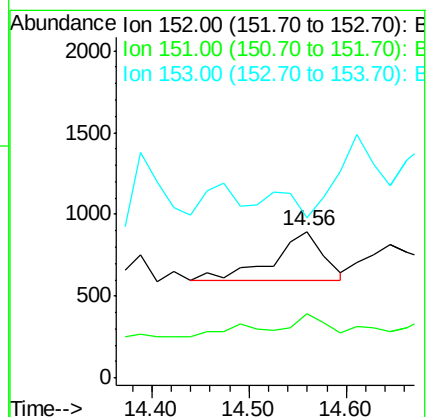
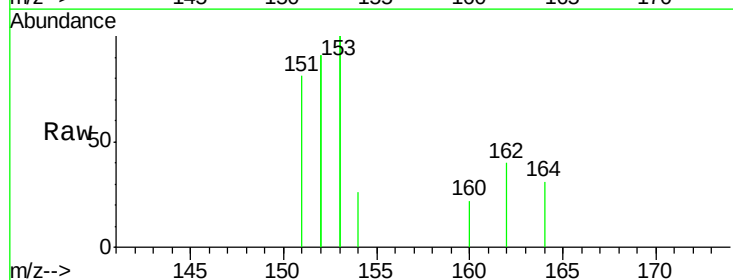
Tgt Ion:152 Resp: 1036

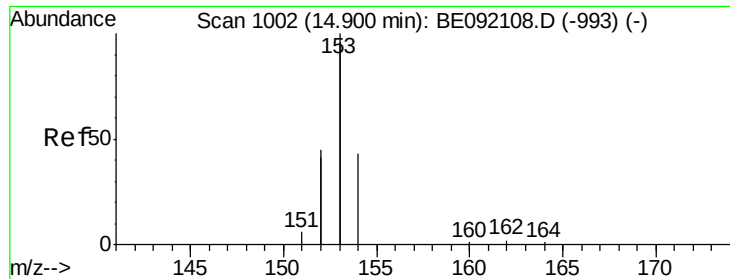
Ion Ratio Lower Upper

152 100

151 23.6 4.0 6.0#

153 0.0 9.6 14.4#





#14

Acenaphthene

Concen: 0.03 ng

RT: 14.90 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

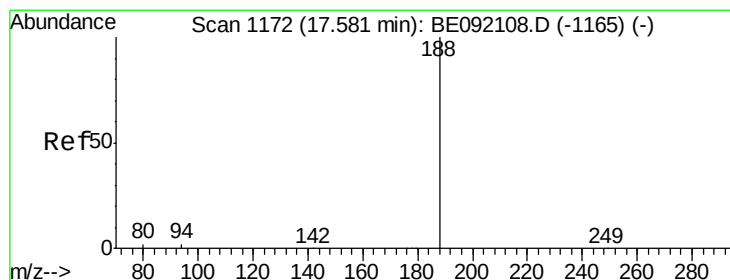
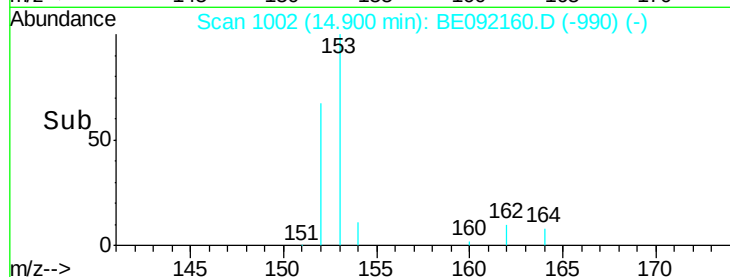
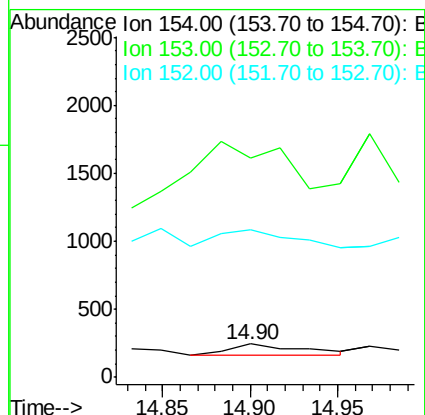
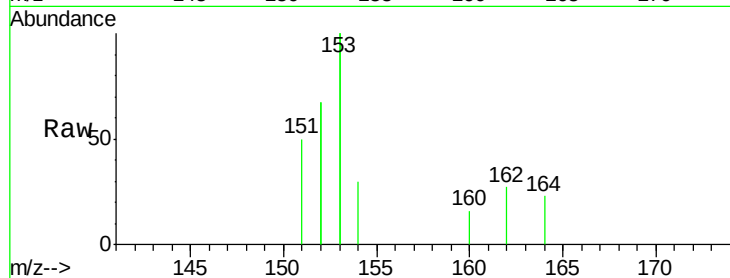
Tgt Ion:154 Resp: 222

Ion Ratio Lower Upper

154 100

153 971.2 345.1 517.7#

152 0.0 0.0 0.0



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

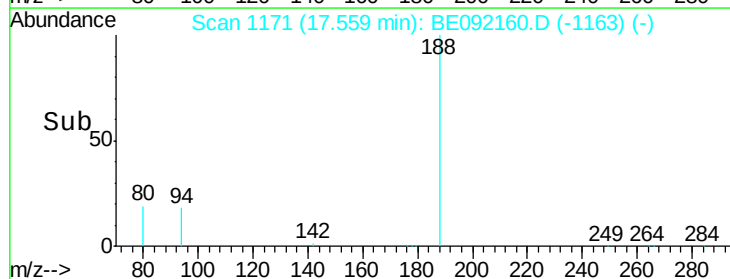
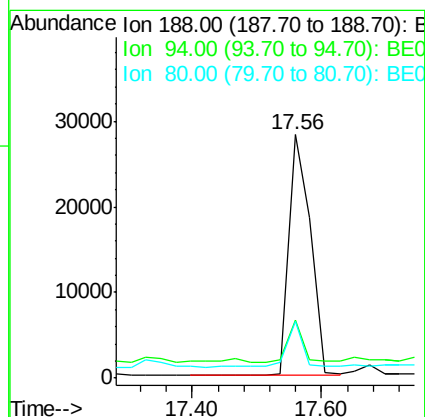
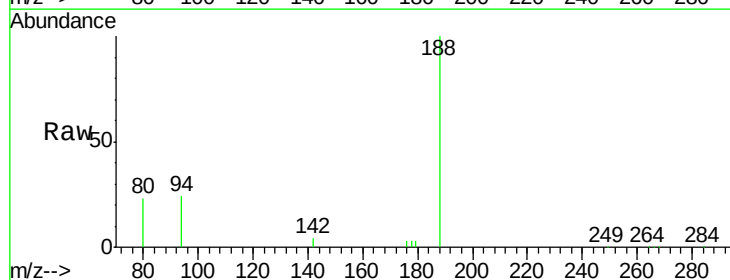
Tgt Ion:188 Resp: 65498

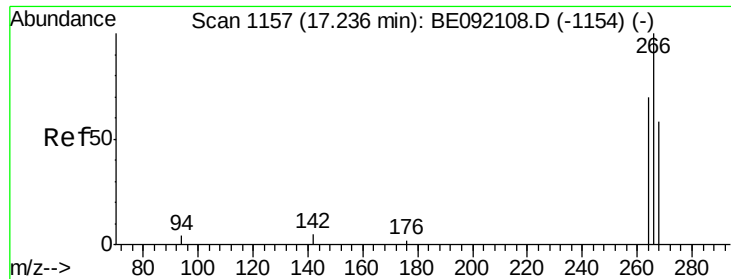
Ion Ratio Lower Upper

188 100

94 23.8 3.9 5.9#

80 23.5 3.4 5.0#

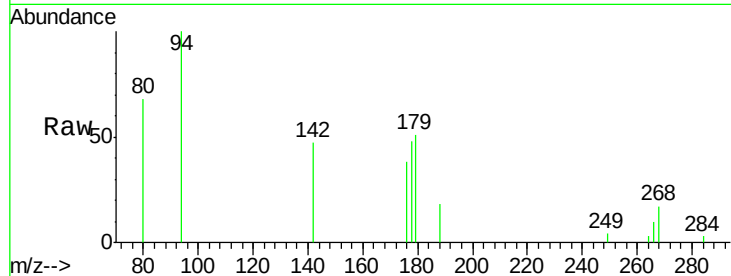




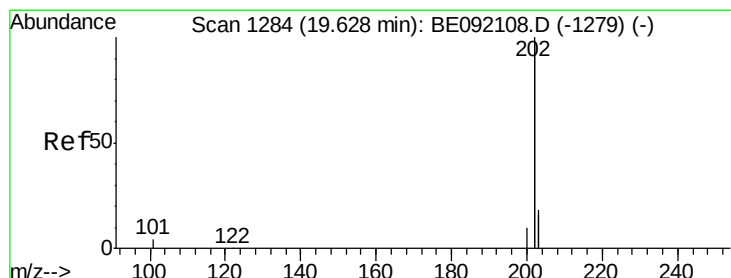
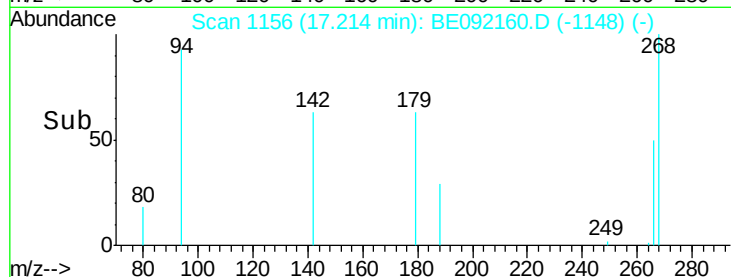
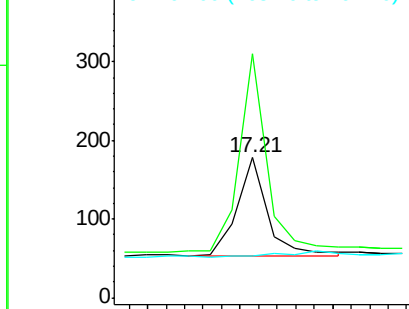
#18
 Pentachlorophenol
 Concen: 0.43 ng
 RT: 17.21 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: BE092160.D
 Acq: 4 Aug 2016 00:30

Instrument :
 BNA_E
 ClientSampleId :
 GW-23-12.0-15.0

Tgt Ion	Ratio	Lower	Upper
266	100		
268	174.2	62.7	94.1#
264	29.8	63.5	95.3#

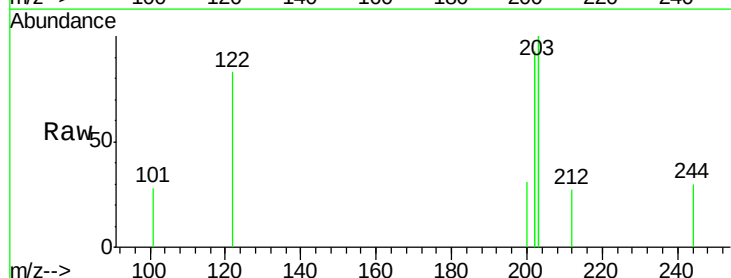


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

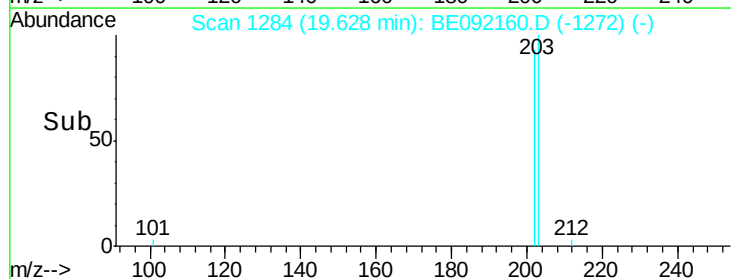
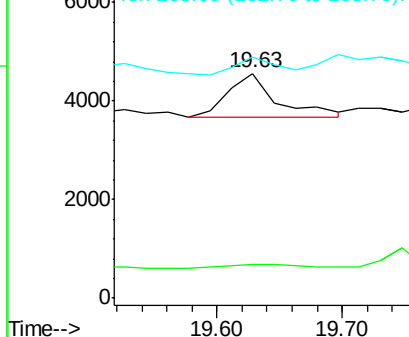


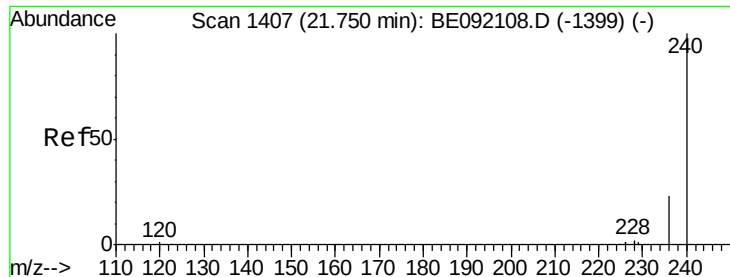
#21
 Fluoranthene
 Concen: 0.03 ng
 RT: 19.63 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: BE092160.D
 Acq: 4 Aug 2016 00:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	2.2	3.2#
203	34.3	13.0	19.4#



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: 21.75 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

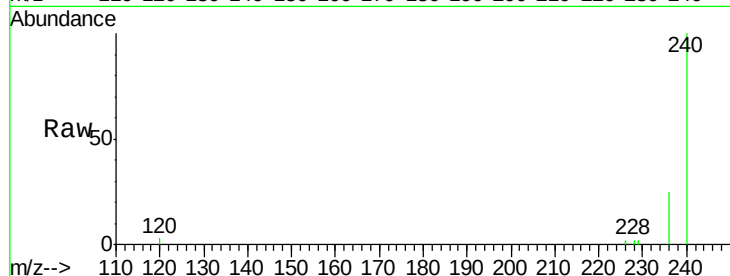
Tgt Ion:240 Resp: 84324

Ion Ratio Lower Upper

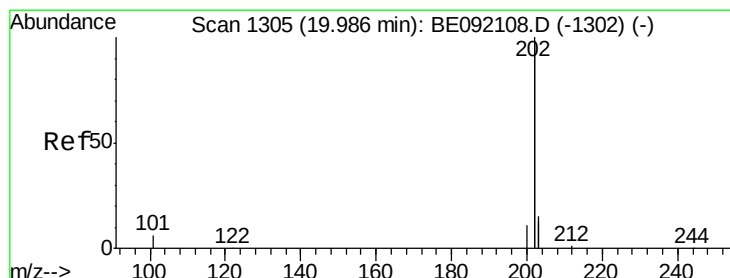
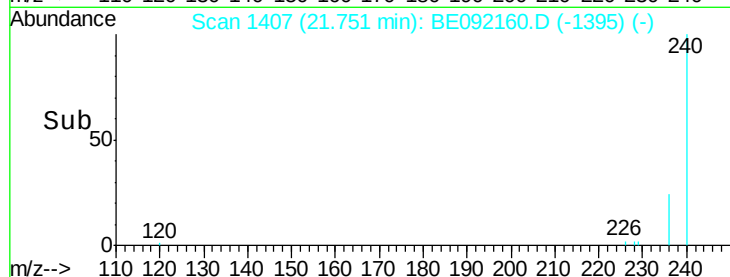
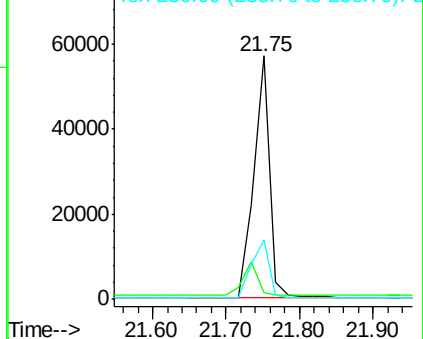
240 100

120 2.8 0.6 1.0#

236 24.5 18.2 27.4



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



#23

Pyrene

Concen: 0.04 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

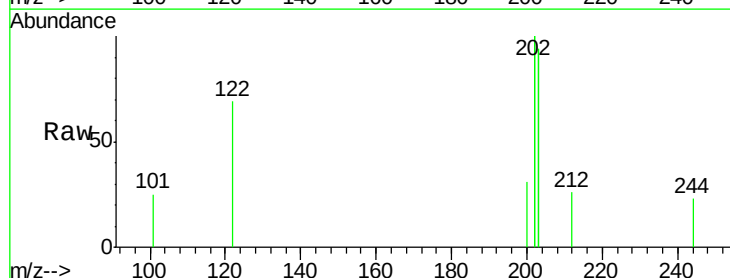
Tgt Ion:202 Resp: 3696

Ion Ratio Lower Upper

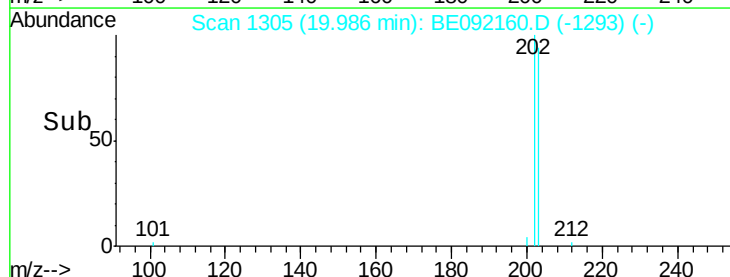
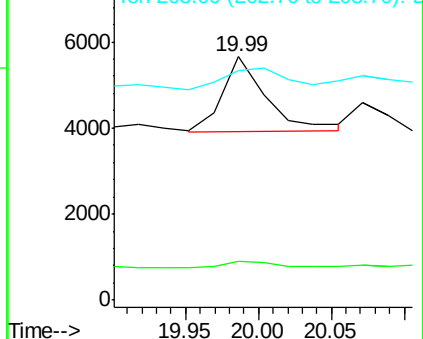
202 100

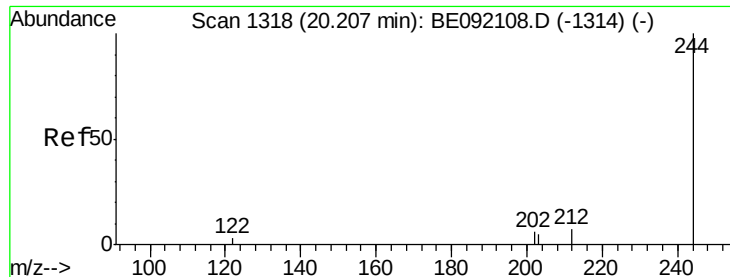
200 9.1 4.4 6.6#

203 40.3 13.4 20.0#



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





#24

Terphenyl-d14

Concen: 66.12 ng

RT: 20.21 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

Instrument :

BNA_E

ClientSampleId :

GW-23-12.0-15.0

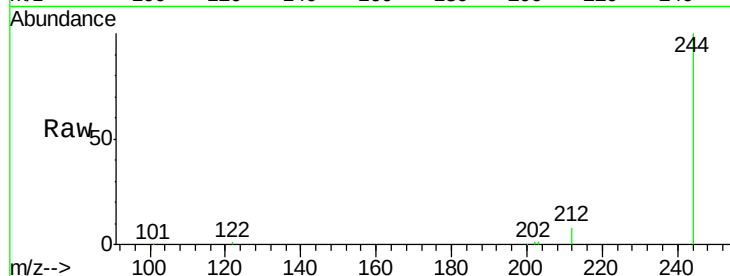
Tgt Ion:244 Resp: 800670

Ion Ratio Lower Upper

244 100

212 7.8 9.1 13.7#

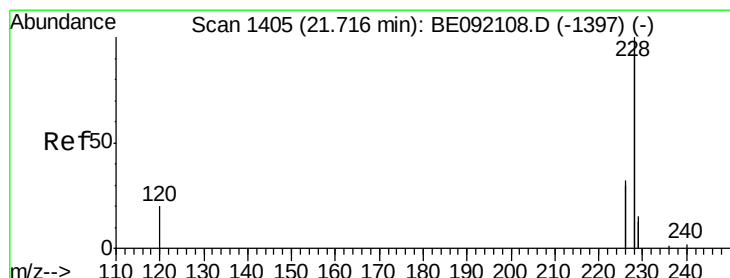
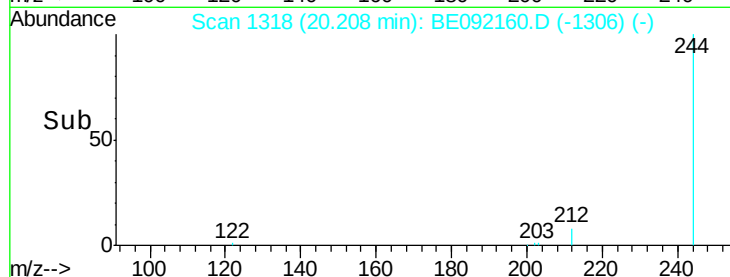
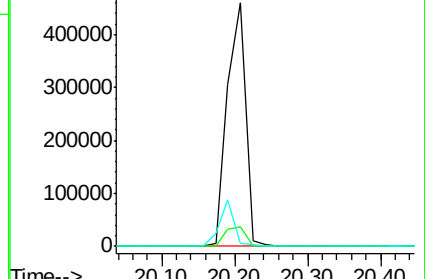
122 1.4 11.0 16.4#



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: 0.03 ng

RT: 21.73 min Scan# 1406

Delta R.T. 0.02 min

Lab File: BE092160.D

Acq: 4 Aug 2016 00:30

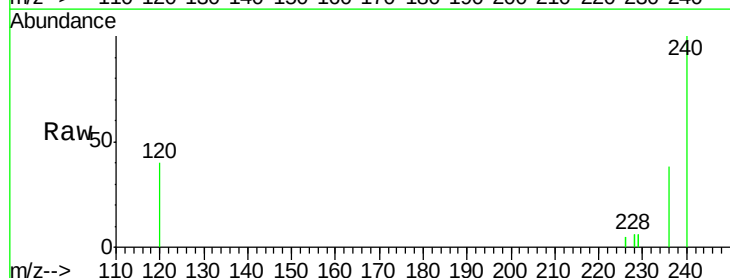
Tgt Ion:228 Resp: 2980

Ion Ratio Lower Upper

228 100

226 79.0 22.1 33.1#

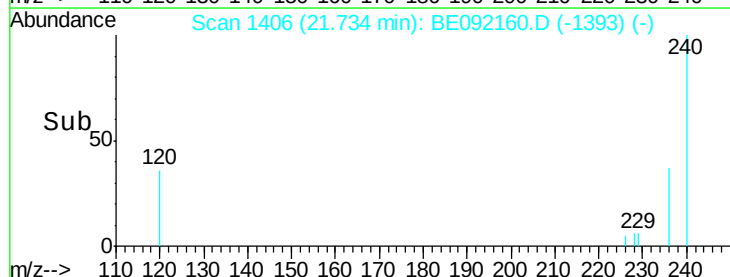
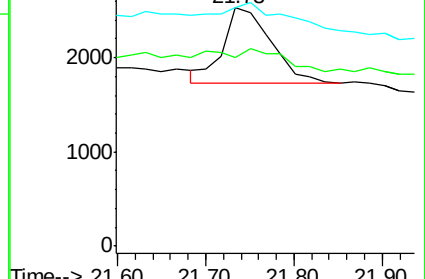
229 100.3 15.1 22.7#

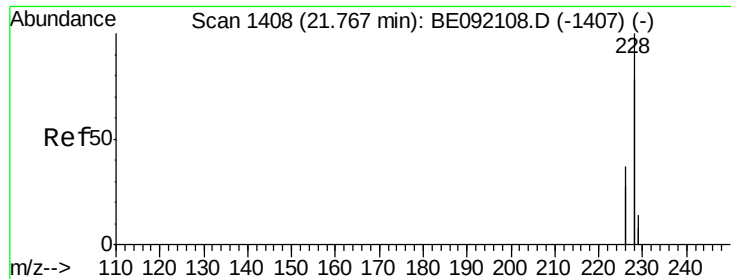


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

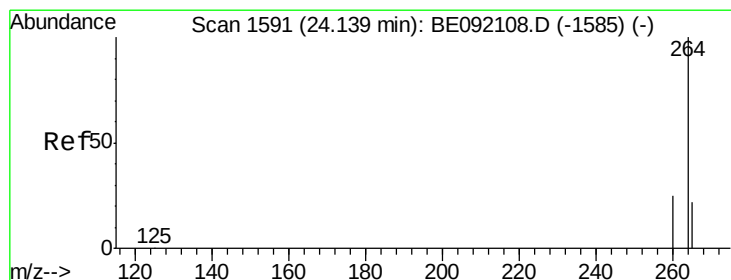
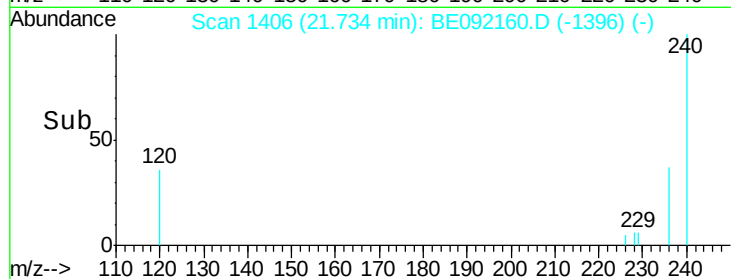
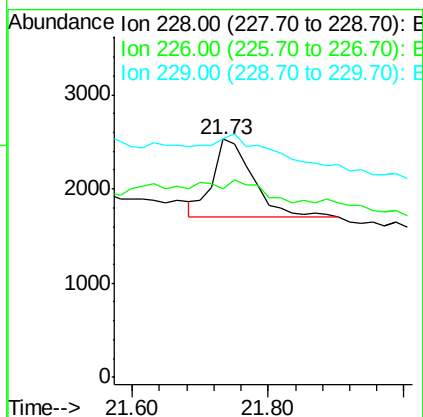
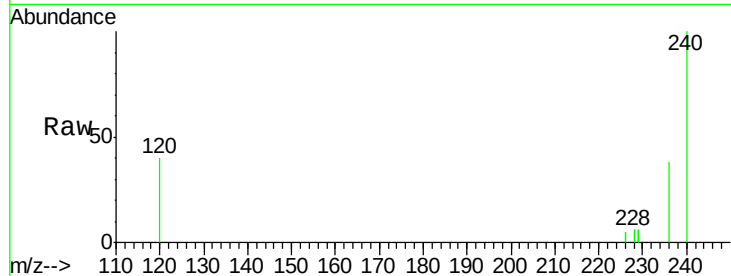




#26
Chrysene
Concen: 0.04 ng
RT: 21.73 min Scan# 1406
Delta R.T. -0.03 min
Lab File: BE092160.D
Acq: 4 Aug 2016 00:30

Instrument :
BNA_E
ClientSampleId :
GW-23-12.0-15.0

Tgt Ion:228 Resp: 3296
Ion Ratio Lower Upper
228 100
226 79.0 22.3 33.5#
229 100.3 16.9 25.3#



#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092160.D
Acq: 4 Aug 2016 00:30

Tgt Ion:264 Resp: 83320
Ion Ratio Lower Upper
264 100
260 26.5 20.8 31.2
265 21.6 16.6 25.0

