

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080216\
 Data File : BE092125.D
 Acq On : 2 Aug 2016 23:56
 Operator : UM/SJ
 Sample : H4152-10
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-16-7.0-15.0

Quant Time: Aug 03 03:55:00 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	11143	5.00	ng	0.00
6) Naphthalene-d8	10.99	136	49867	5.00	ng	0.00
10) Acenaphthene-d10	14.85	164	27468	5.00	ng	0.00
16) Phenanthrene-d10	17.56	188	62127	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	78929	5.00	ng	0.00
28) Perylene-d12	24.14	264	82665	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.69	112	13731	4.80	ng	0.00
5) Phenol-d6	7.34	99	11793	3.09	ng	-0.01
7) Nitrobenzene-d5	9.34	82	15191	3.86	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	8960	10.05	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	34488	3.96	ng	0.00
24) Terphenyl-d14	20.19	244	53057	4.68	ng	-0.02

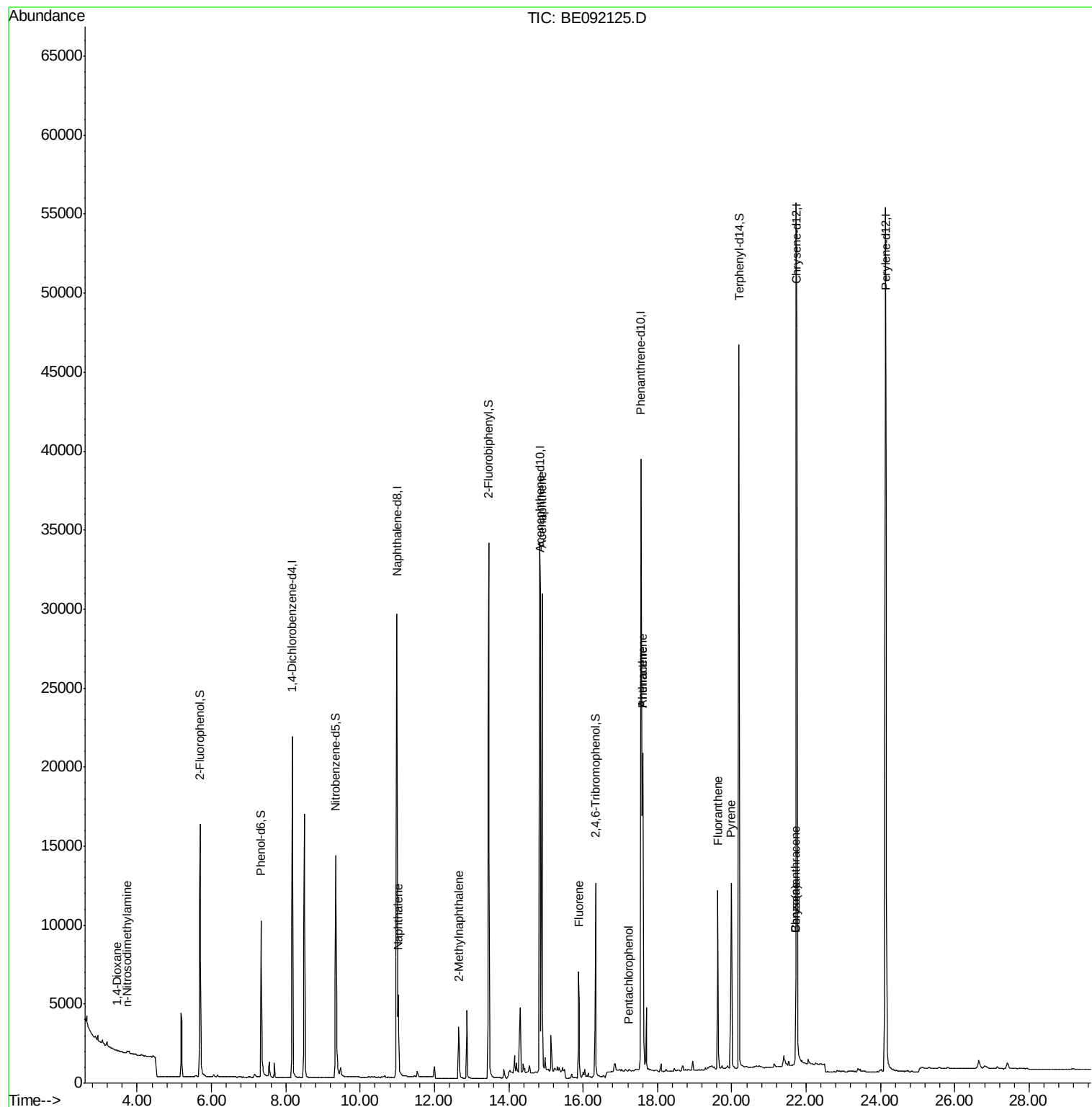
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.44	88	54	0.04	ng	# 20
3) n-Nitrosodimethylamine	3.72	42	70	0.12	ng	# 1
8) Naphthalene	11.03	128	6893	0.63	ng	97
9) 2-Methylnaphthalene	12.65	142	2822	0.41	ng	95
14) Acenaphthene	14.90	154	6352	0.82	ng	# 97
15) Fluorene	15.88	166	4944	0.50	ng	100
18) Pentachlorophenol	17.24	266	25	0.21	ng	# 83
19) Phenanthrene	17.61	178	22810	1.32	ng	100
20) Anthracene	17.61	178	22748	1.38	ng	99
21) Fluoranthene	19.63	202	15533	0.20	ng	99
23) Pyrene	19.99	202	14069	0.17	ng	# 86
25) Benzo(a)anthracene	21.72	228	4063	0.05	ng	# 70
26) Chrysene	21.72	228	4061	0.05	ng	# 73
30) Benzo(k)fluoranthene	23.46	252	178	Below Cal		# 1

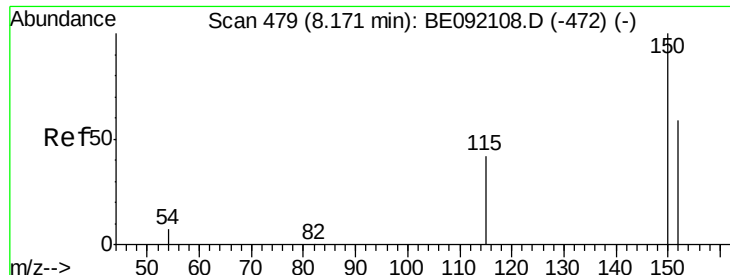
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

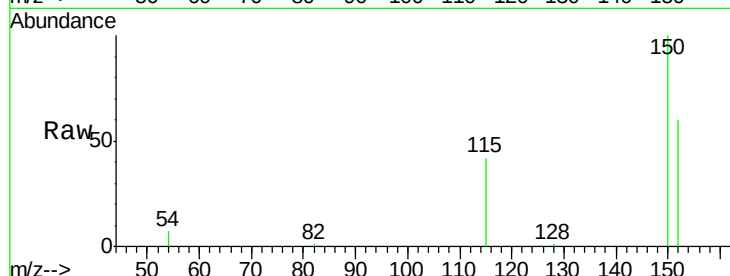
Tgt Ion:152 Resp: 11143

Ion Ratio Lower Upper

152 100

150 166.3 106.0 159.0#

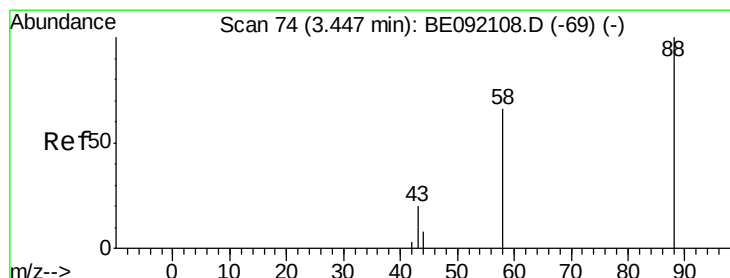
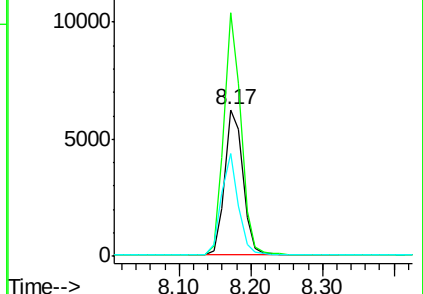
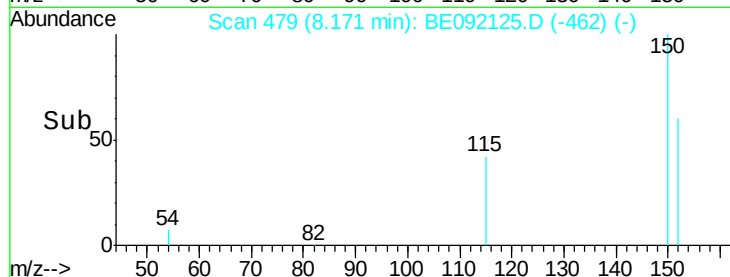
115 70.0 36.9 55.3#



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: 0.04 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

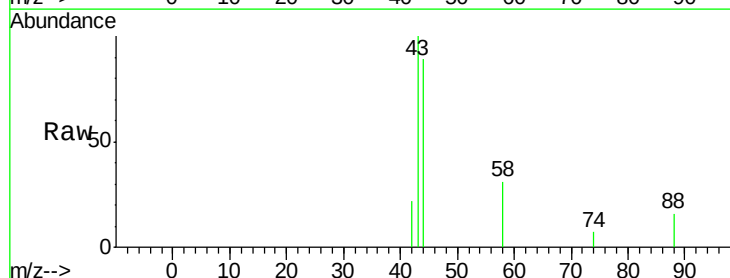
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

58 0.0 62.1 93.1#

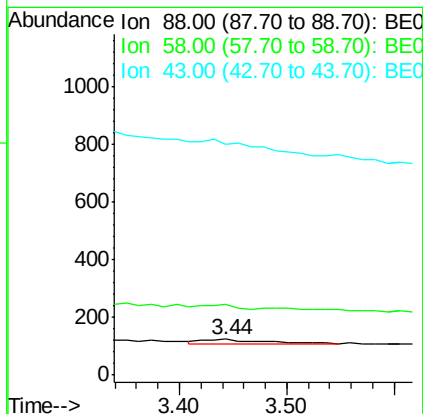
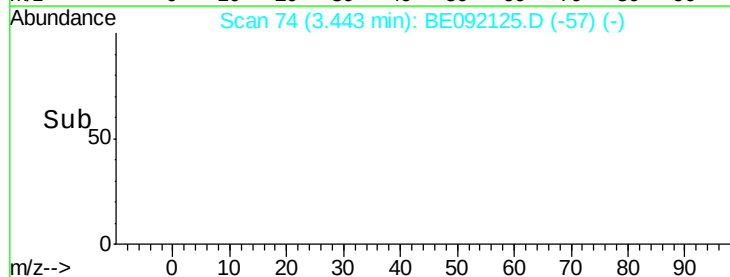
43 0.0 27.2 40.8#

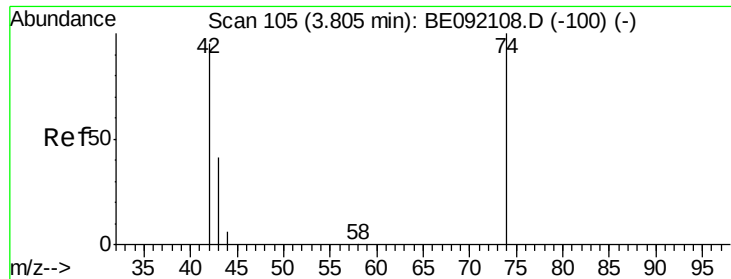


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.12 ng

RT: 3.72 min Scan# 98

Delta R.T. -0.08 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

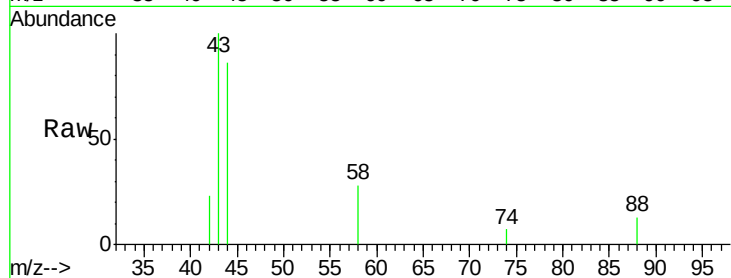
Tgt Ion: 42 Resp: 70

Ion Ratio Lower Upper

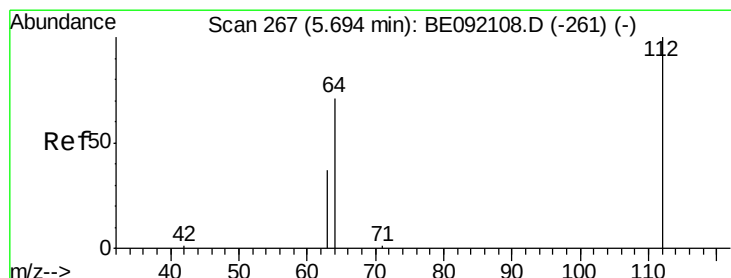
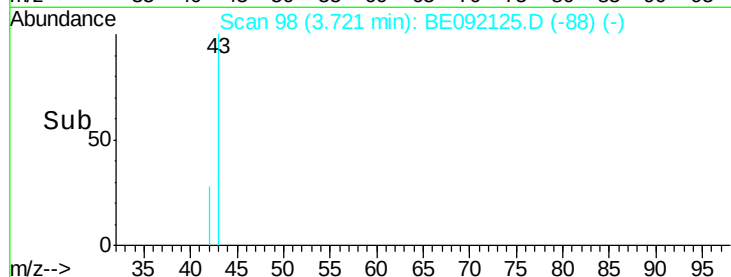
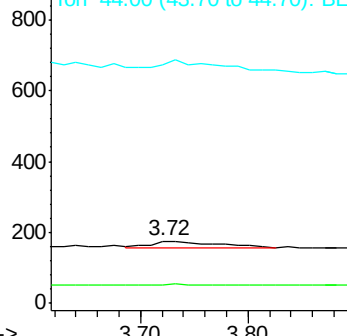
42 100

74 8.6 82.8 124.2#

44 577.1 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: 4.80 ng

RT: 5.69 min Scan# 267

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

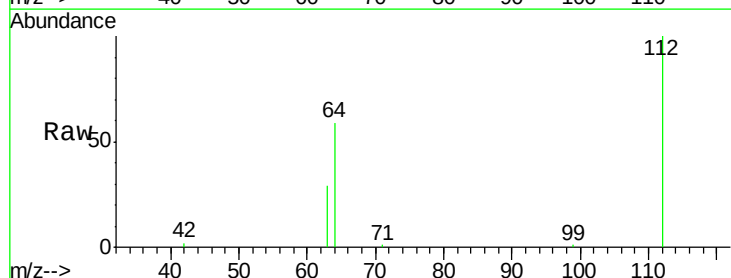
Tgt Ion: 112 Resp: 13731

Ion Ratio Lower Upper

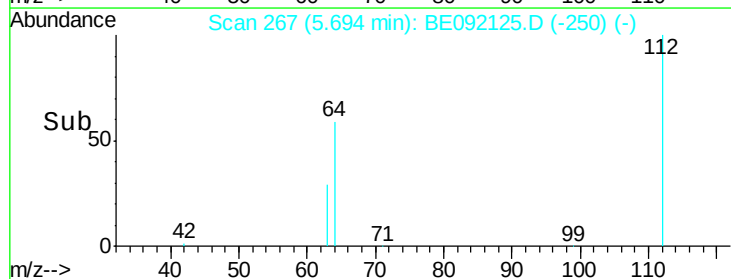
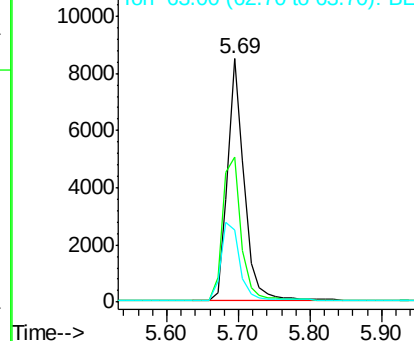
112 100

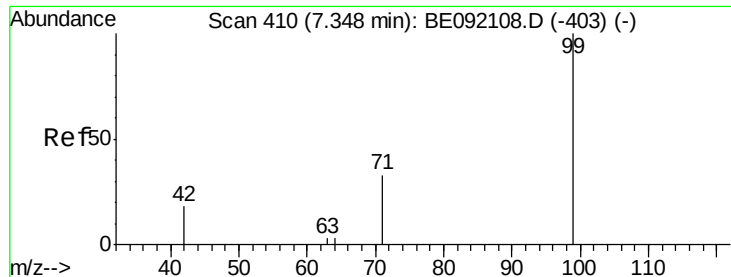
64 66.8 55.9 83.9

63 36.0 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: 3.09 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

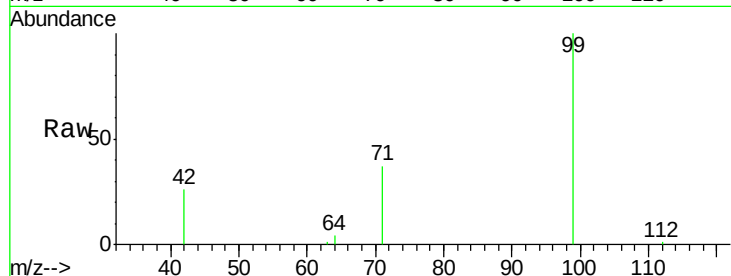
Tgt Ion: 99 Resp: 11793

Ion Ratio Lower Upper

99 100

42 24.2 22.4 33.6

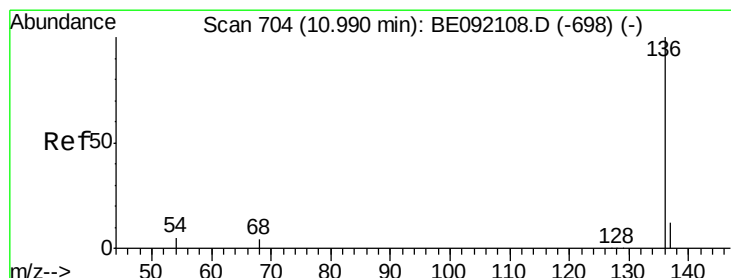
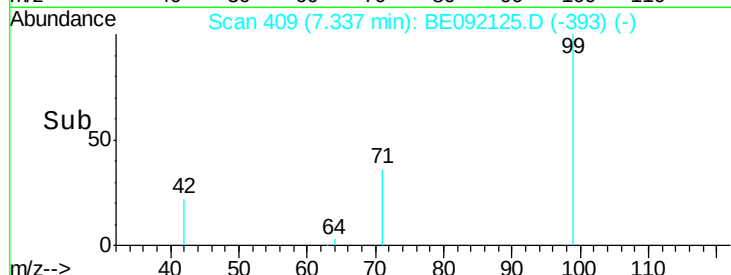
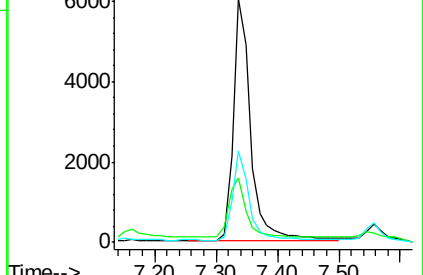
71 35.2 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 704

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Tgt Ion: 136 Resp: 49867

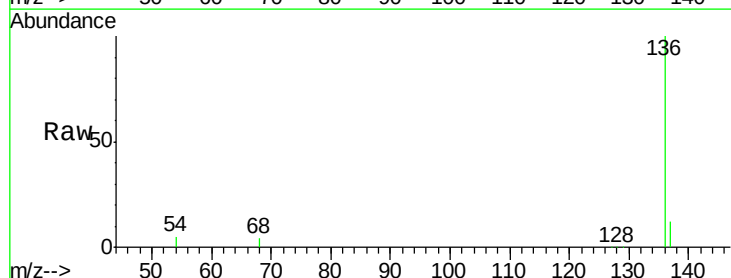
Ion Ratio Lower Upper

136 100

137 11.7 9.1 13.7

54 5.0 2.7 4.1#

68 3.9 2.2 3.4#

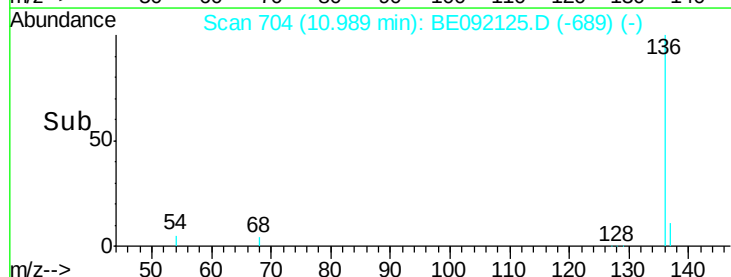
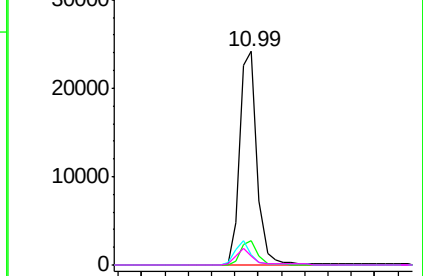


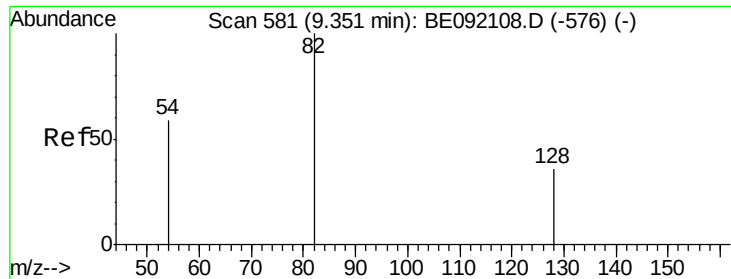
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 3.86 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

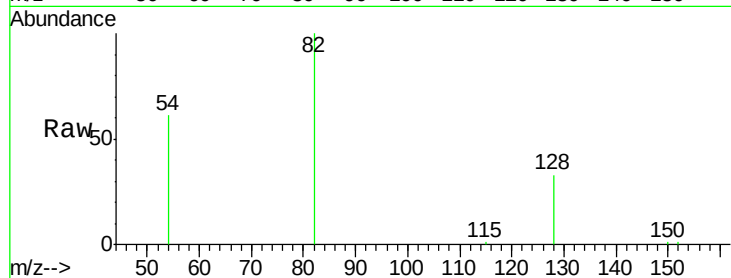
Tgt Ion: 82 Resp: 15191

Ion Ratio Lower Upper

82 100

128 33.2 33.0 49.4

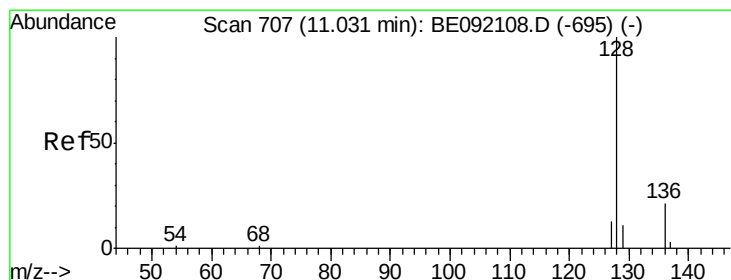
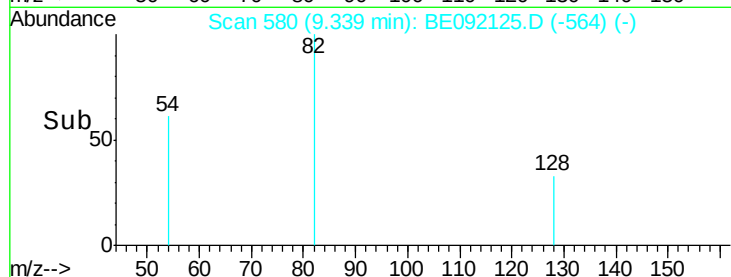
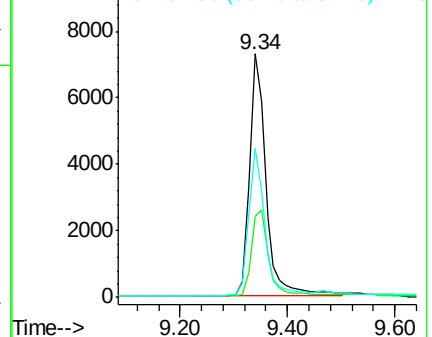
54 61.2 42.6 63.8



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) (-)



#8

Naphthalene

Concen: 0.63 ng

RT: 11.03 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

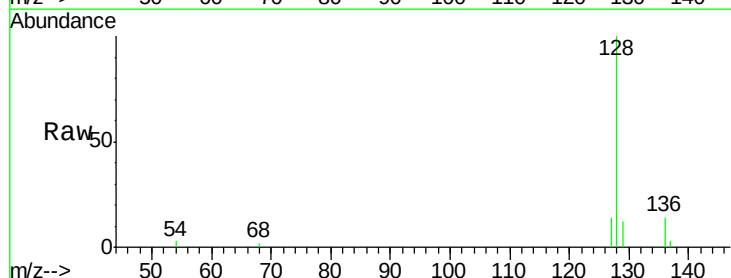
Tgt Ion: 128 Resp: 6893

Ion Ratio Lower Upper

128 100

129 12.0 11.1 16.7

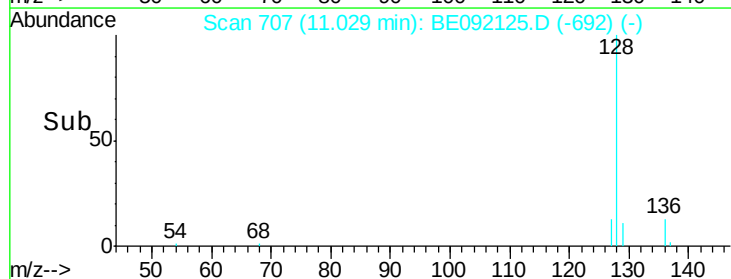
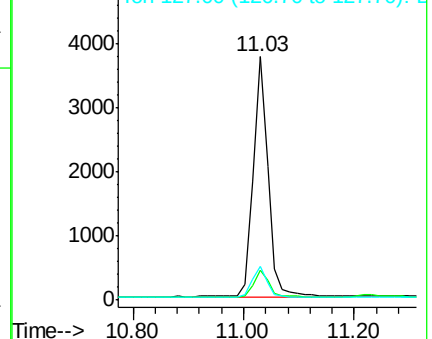
127 13.8 11.3 16.9

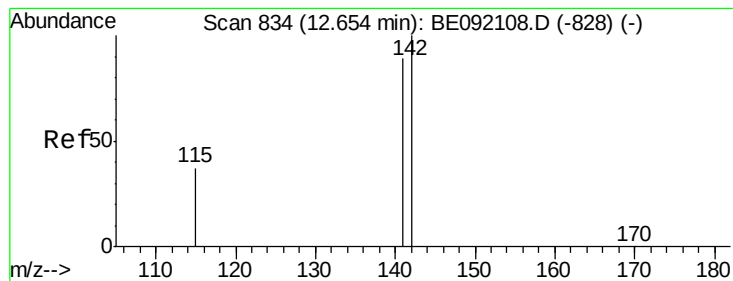


Abundance Ion 128.00 (127.70 to 128.70): BE092108.D (-695) (-)

Ion 129.00 (128.70 to 129.70): BE092108.D (-695) (-)

Ion 127.00 (126.70 to 127.70): BE092108.D (-695) (-)





#9

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

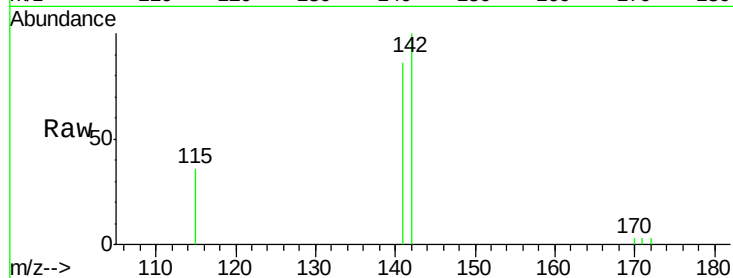
Tgt Ion:142 Resp: 2822

Ion Ratio Lower Upper

142 100

141 86.2 65.1 97.7

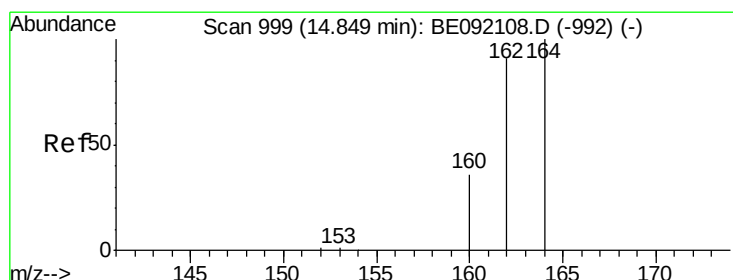
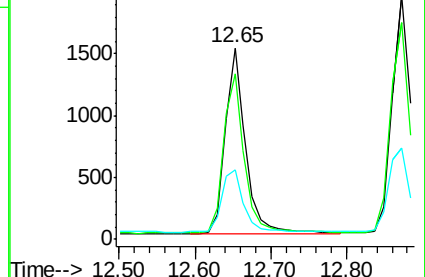
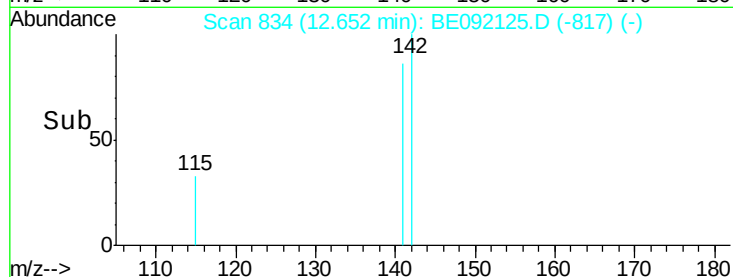
115 36.4 27.0 40.4



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.85 min Scan# 999

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

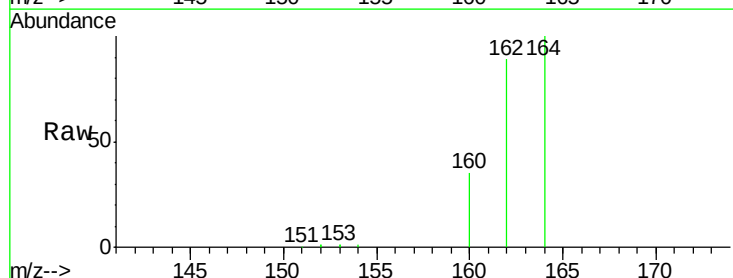
Tgt Ion:164 Resp: 27468

Ion Ratio Lower Upper

164 100

162 89.2 69.5 104.3

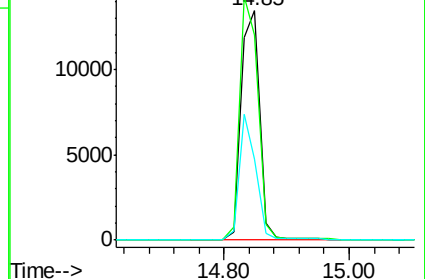
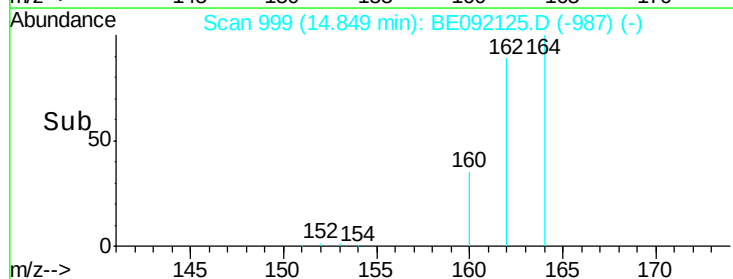
160 35.3 27.6 41.4

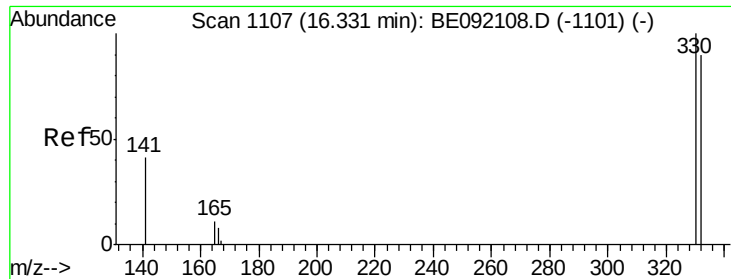


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

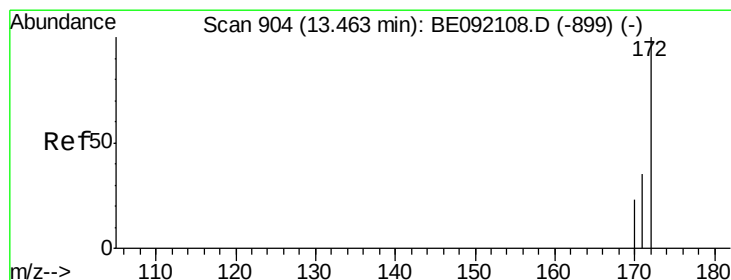
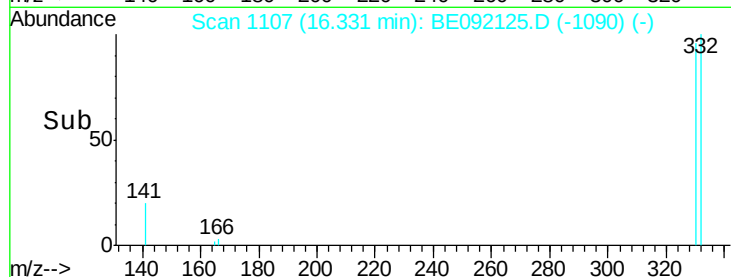
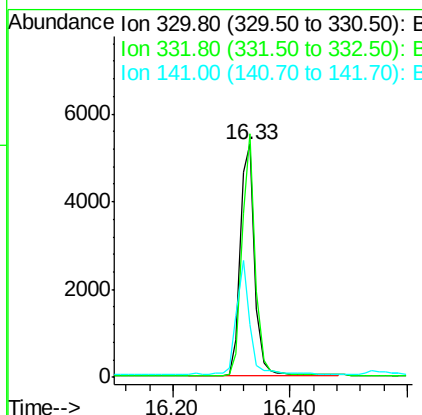
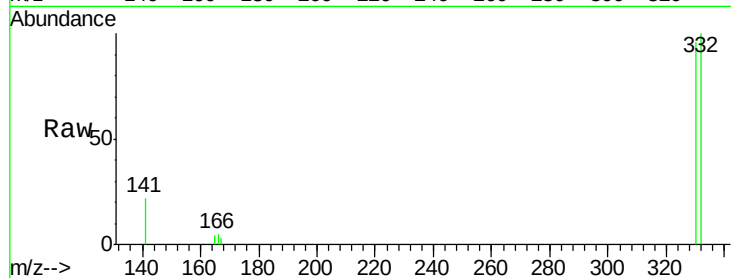




#11
 2,4,6-Tribromophenol
 Concen: 10.05 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092125.D
 Acq: 2 Aug 2016 23:56

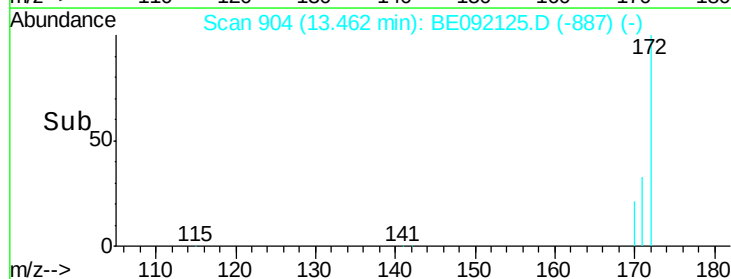
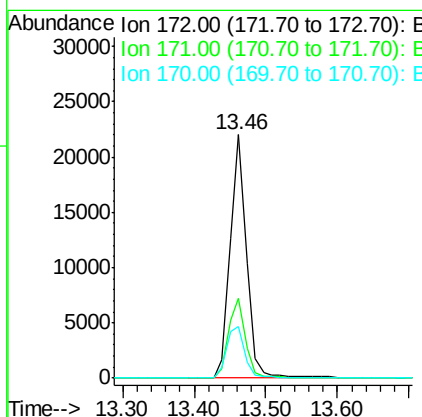
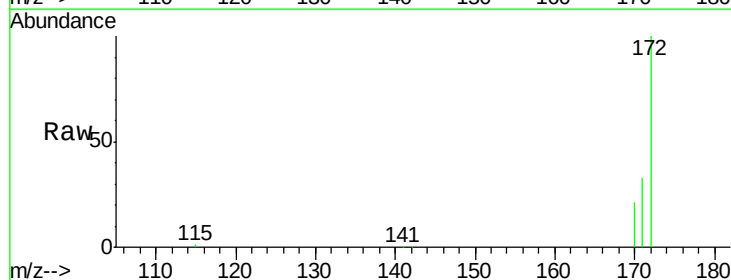
Instrument :
 BNA_E
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 GW-16-7.0-15.0

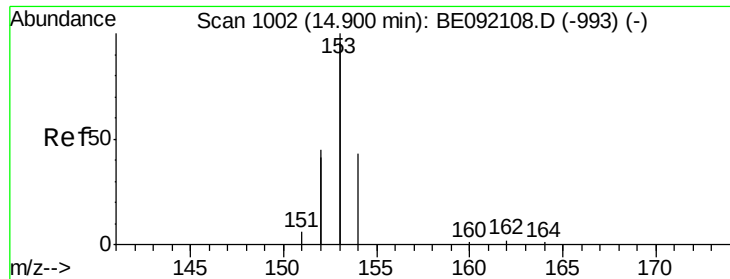
Tgt Ion:330 Resp: 8960
 Ion Ratio Lower Upper
 330 100
 332 95.9 74.2 111.4
 141 45.4 139.8 209.8#



#12
 2-Fluorobiphenyl
 Concen: 3.96 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092125.D
 Acq: 2 Aug 2016 23:56

Tgt Ion:172 Resp: 34488
 Ion Ratio Lower Upper
 172 100
 171 32.8 30.3 45.5
 170 21.2 21.6 32.4#





#14

Acenaphthene

Concen: 0.82 ng

RT: 14.90 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

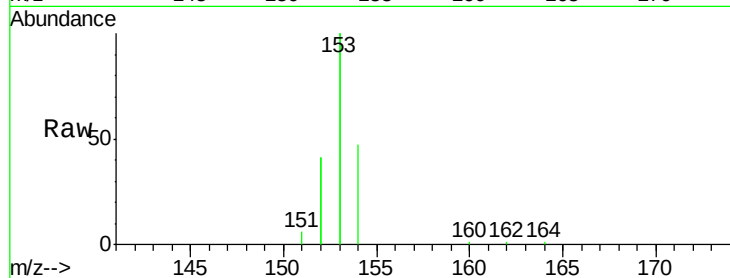
Tgt Ion:154 Resp: 6352

Ion Ratio Lower Upper

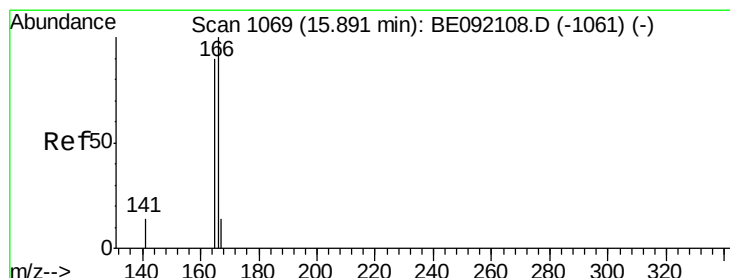
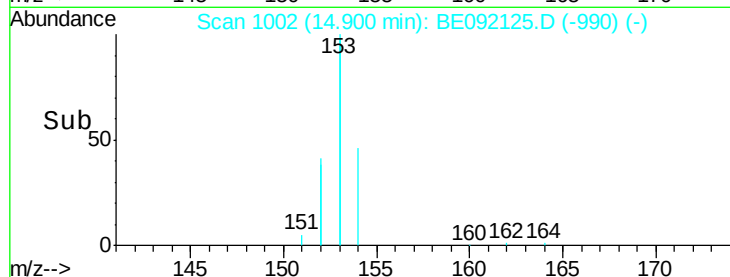
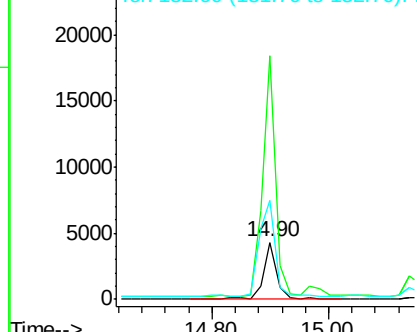
154 100

153 439.6 345.1 517.7

152 218.3 0.0 0.0#



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#15

Fluorene

Concen: 0.50 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

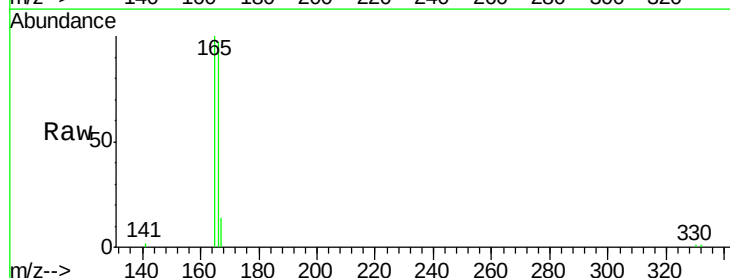
Tgt Ion:166 Resp: 4944

Ion Ratio Lower Upper

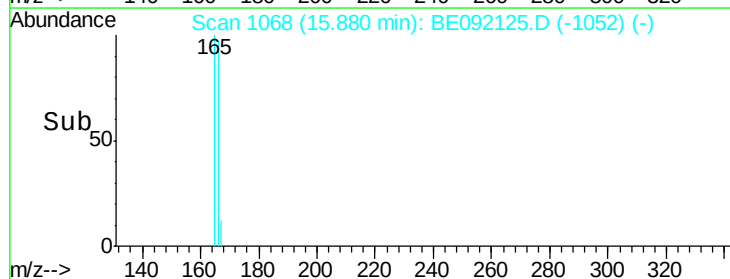
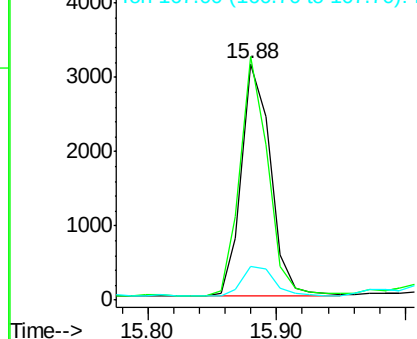
166 100

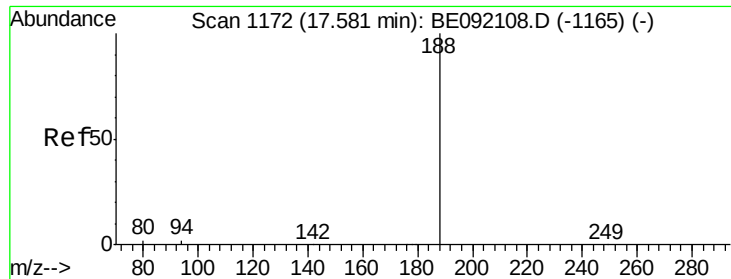
165 98.1 78.6 118.0

167 14.8 11.1 16.7



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

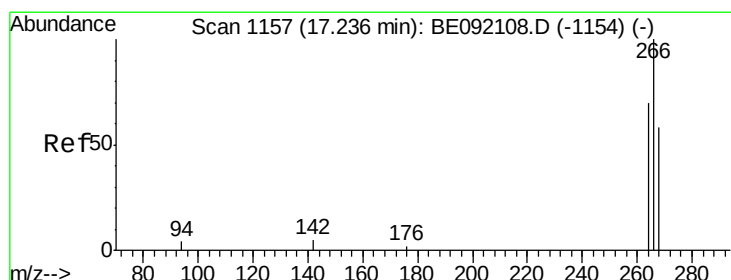
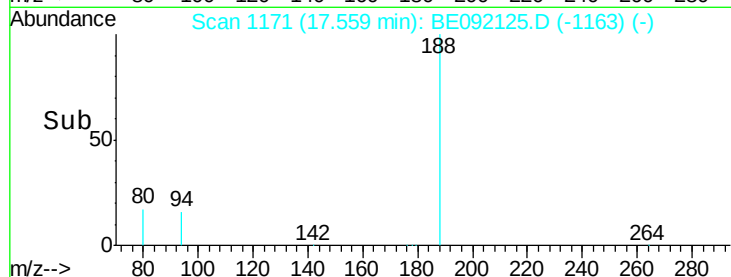
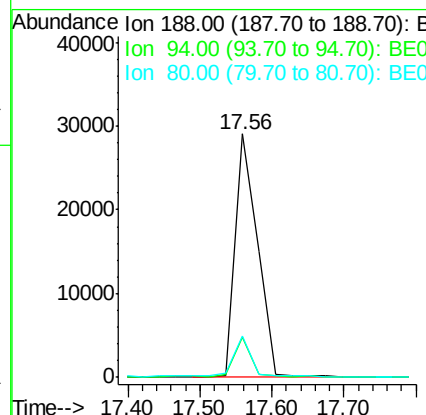
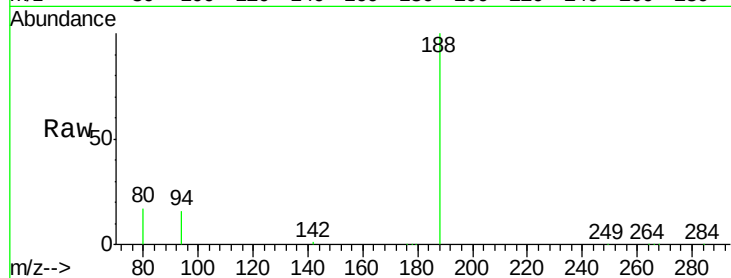




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092125.D
Acq: 2 Aug 2016 23:56

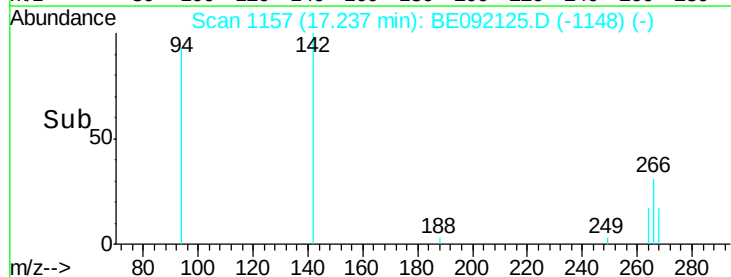
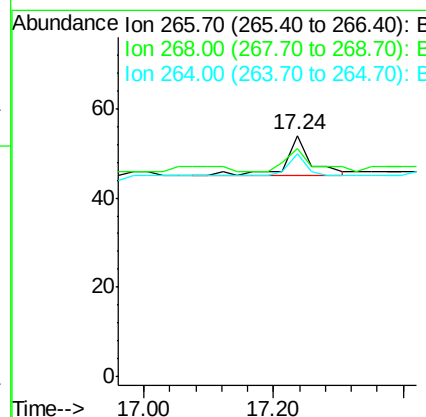
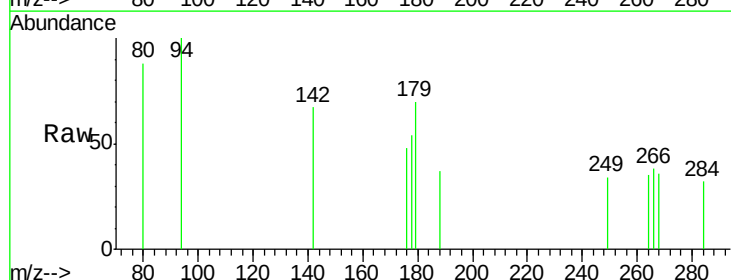
Instrument :
BNA_E
ClientSampleId :
GW-16-7.0-15.0

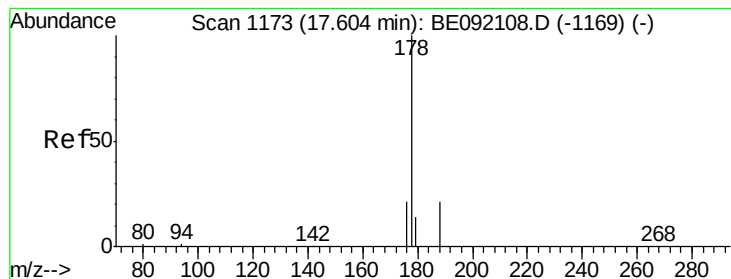
Tgt Ion:188 Resp: 62127
Ion Ratio Lower Upper
188 100
94 16.4 3.9 5.9#
80 17.1 3.4 5.0#



#18
Pentachlorophenol
Concen: 0.21 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092125.D
Acq: 2 Aug 2016 23:56

Tgt Ion:266 Resp: 25
Ion Ratio Lower Upper
266 100
268 94.4 62.7 94.1#
264 92.6 63.5 95.3





#19

Phenanthrene

Concen: 1.32 ng

RT: 17.61 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

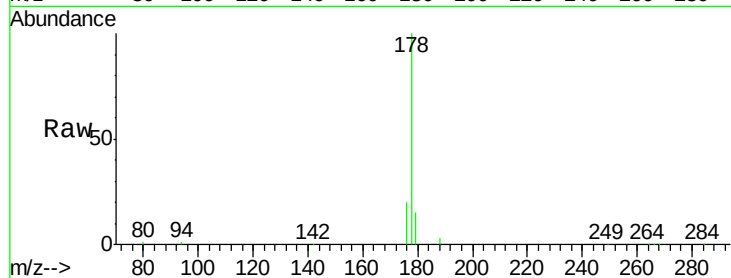
Tgt Ion:178 Resp: 22810

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

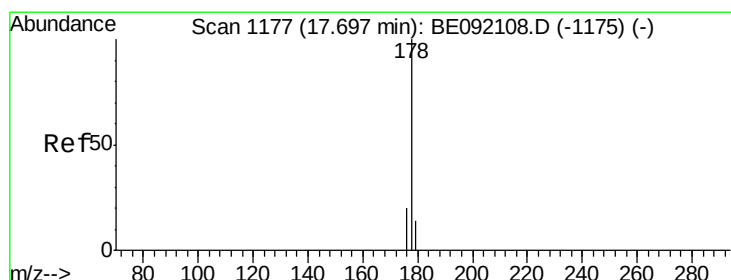
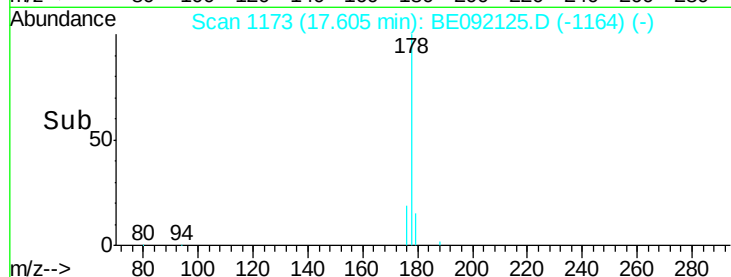
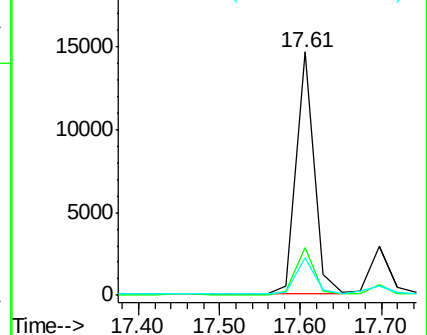
179 15.6 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#20

Anthracene

Concen: 1.38 ng

RT: 17.61 min Scan# 1173

Delta R.T. -0.09 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

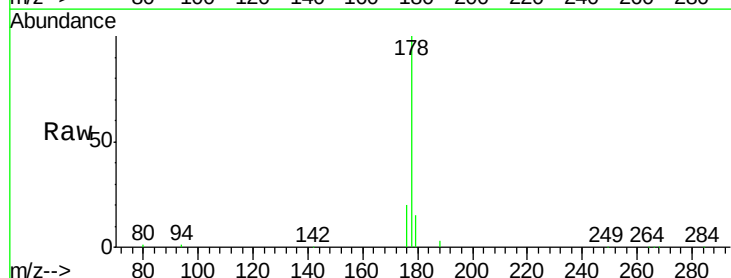
Tgt Ion:178 Resp: 22748

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

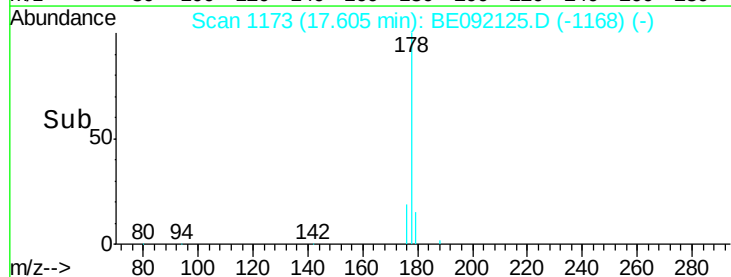
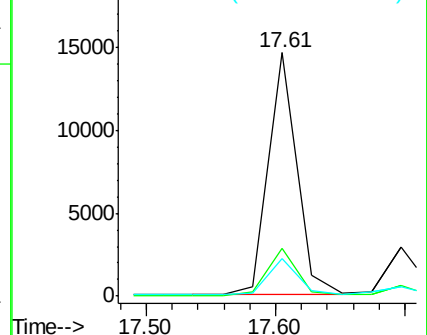
179 15.7 12.2 18.4

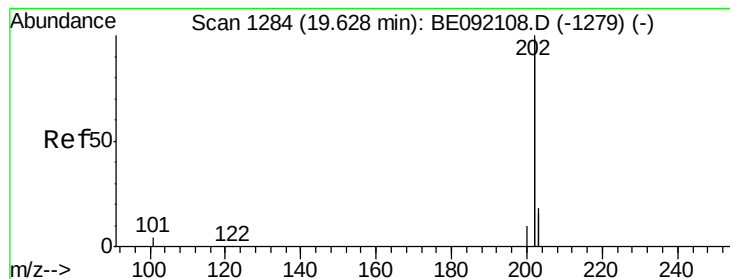


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 0.20 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

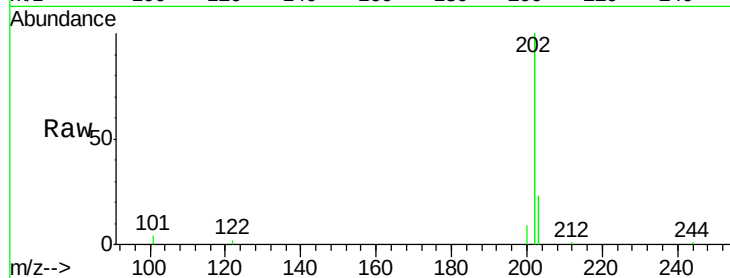
Tgt Ion:202 Resp: 15533

Ion Ratio Lower Upper

202 100

101 3.2 2.2 3.2

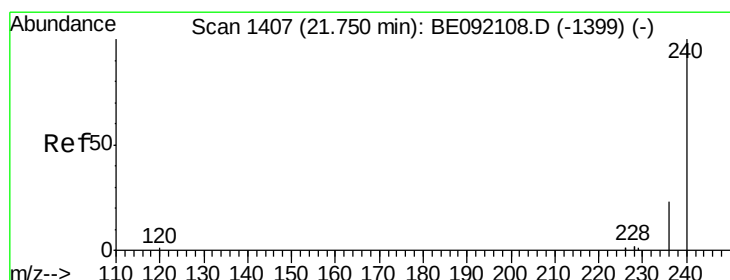
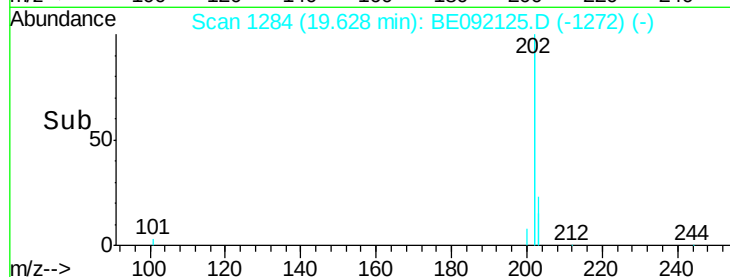
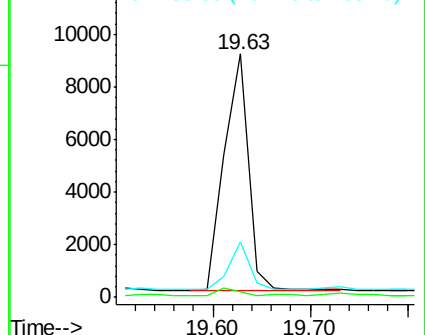
203 16.8 13.0 19.4



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: BE092125.D

Acq: 2 Aug 2016 23:56

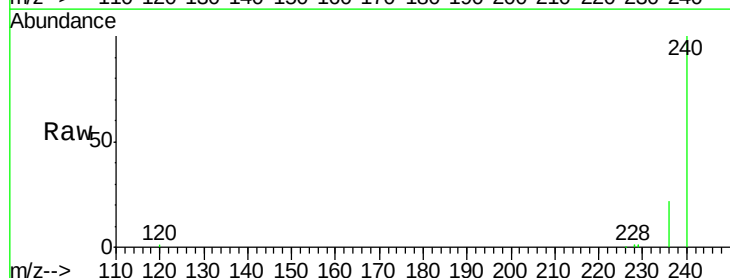
Tgt Ion:240 Resp: 78929

Ion Ratio Lower Upper

240 100

120 1.3 0.6 1.0#

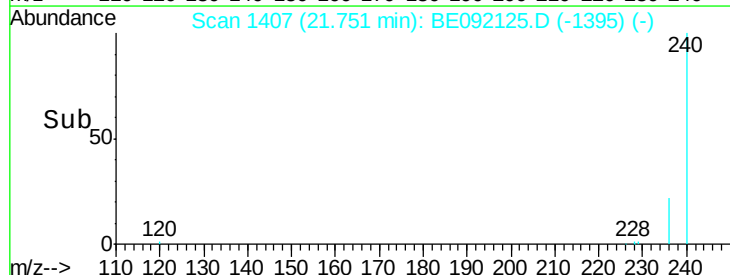
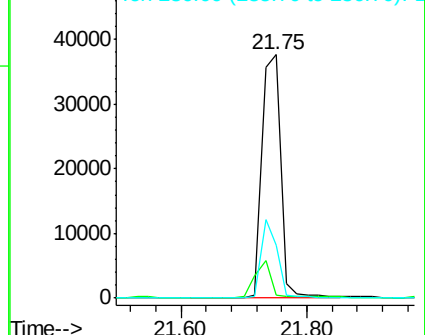
236 21.7 18.2 27.4

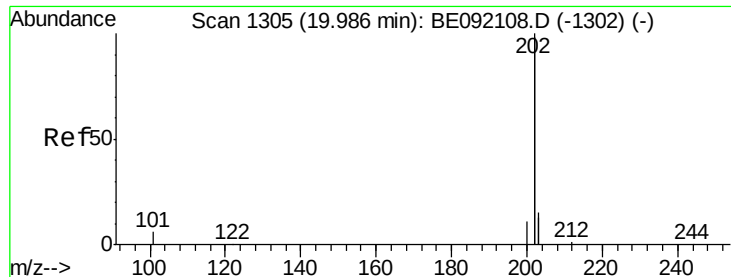


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

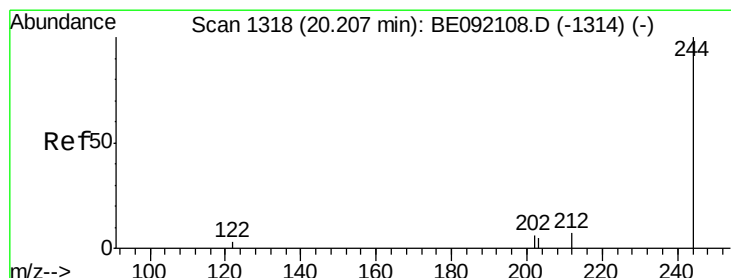
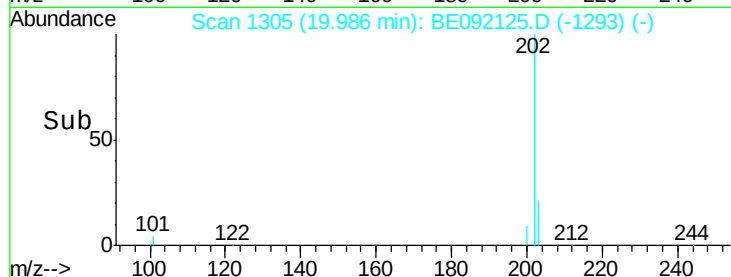
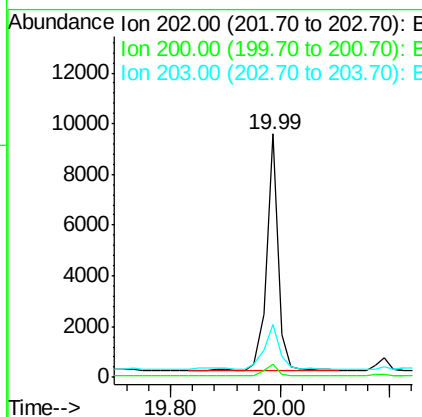
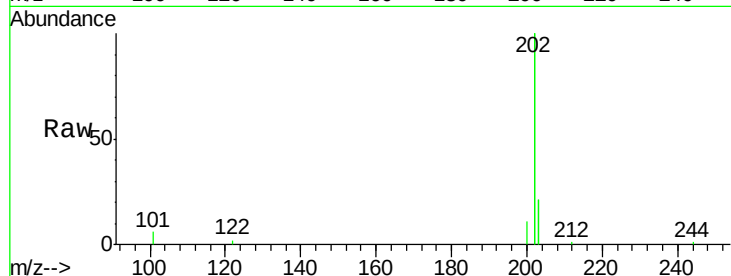




#23
 Pyrene
 Concen: 0.17 ng
 RT: 19.99 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: BE092125.D
 Acq: 2 Aug 2016 23:56

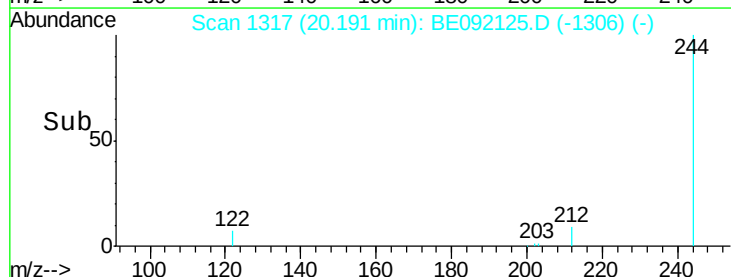
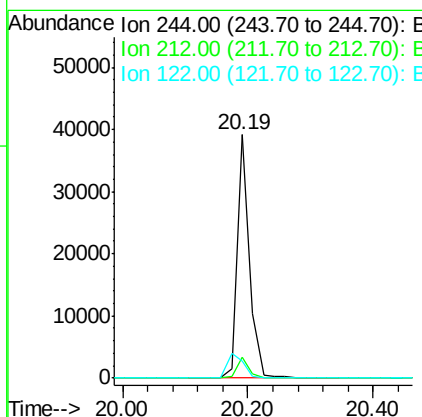
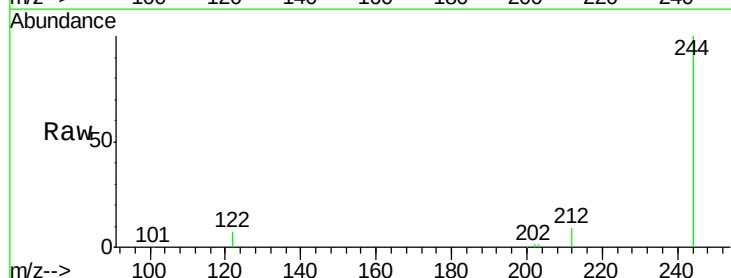
Instrument :
 BNA_E
 ClientSampleId :
 GW-16-7.0-15.0

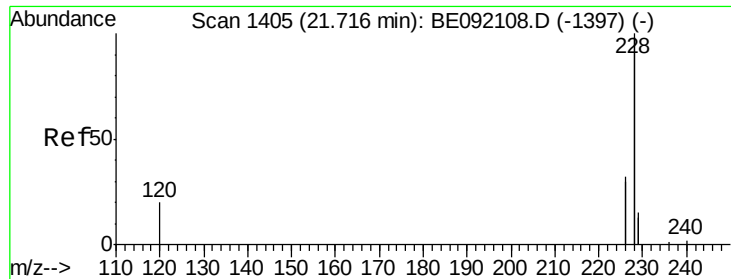
Tgt Ion: 202 Resp: 14069
 Ion Ratio Lower Upper
 202 100
 200 5.2 4.4 6.6
 203 24.8 13.4 20.0#



#24
 Terphenyl-d14
 Concen: 4.68 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092125.D
 Acq: 2 Aug 2016 23:56

Tgt Ion: 244 Resp: 53057
 Ion Ratio Lower Upper
 244 100
 212 8.8 9.1 13.7#
 122 7.0 11.0 16.4#

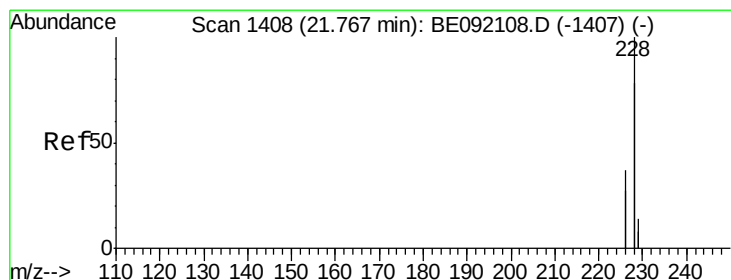
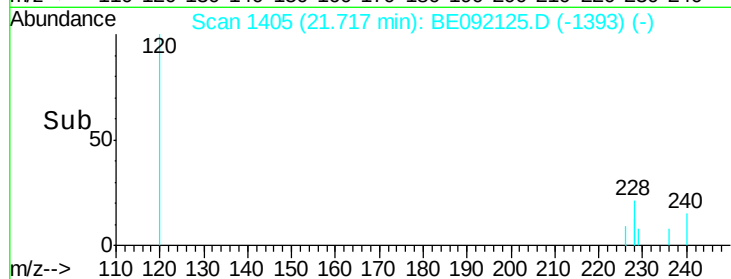
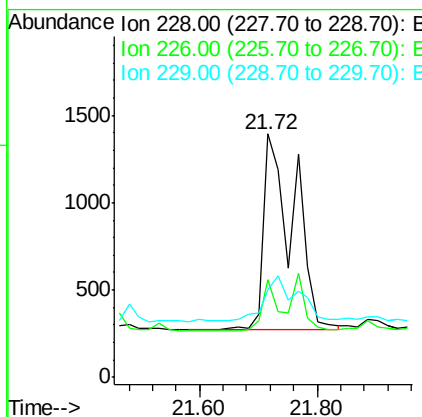
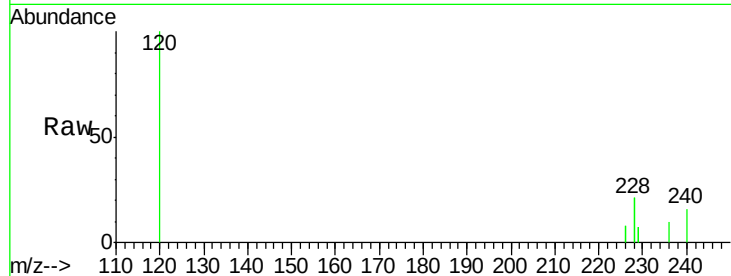




#25
Benzo(a)anthracene
Concen: 0.05 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092125.D
Acq: 2 Aug 2016 23:56

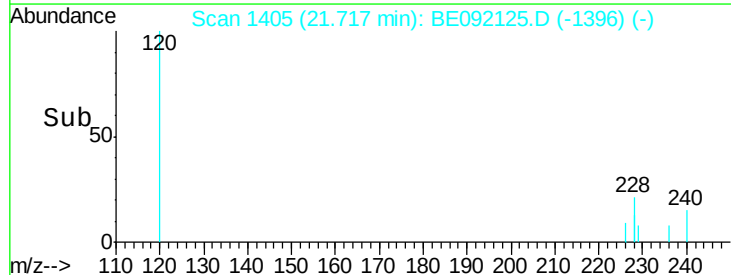
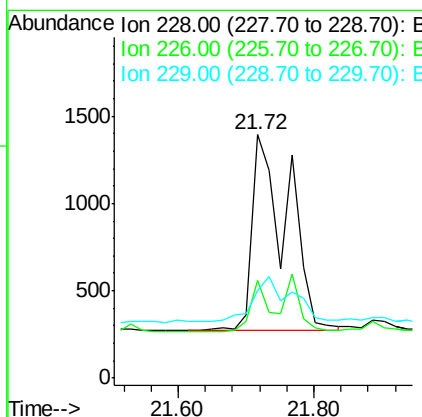
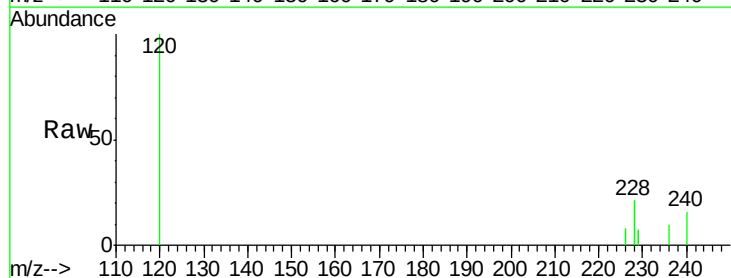
Instrument :
BNA_E
ClientSampleId :
GW-16-7.0-15.0

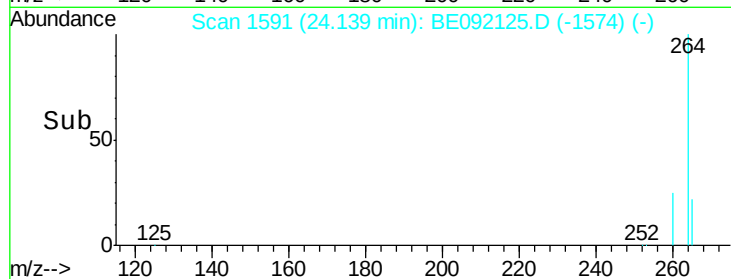
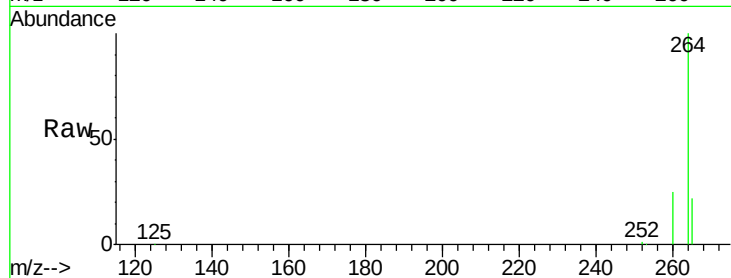
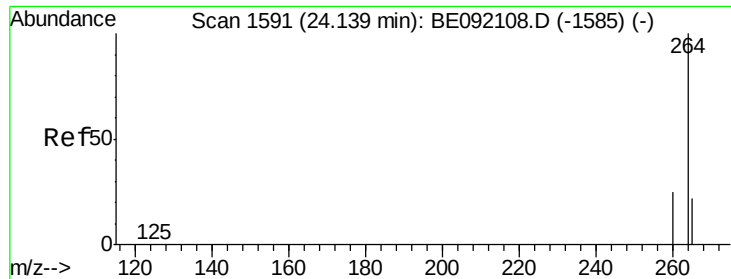
Tgt Ion:228 Resp: 4063
Ion Ratio Lower Upper
228 100
226 39.9 22.1 33.1#
229 36.2 15.1 22.7#



#26
Chrysene
Concen: 0.05 ng
RT: 21.72 min Scan# 1405
Delta R.T. -0.05 min
Lab File: BE092125.D
Acq: 2 Aug 2016 23:56

Tgt Ion:228 Resp: 4061
Ion Ratio Lower Upper
228 100
226 39.9 22.3 33.5#
229 36.2 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: BE092125.D

Acq: 2 Aug 2016 23:56

Instrument :

BNA_E

ClientSampleId :

GW-16-7.0-15.0

Tgt Ion: 264 Resp: 82665

Ion Ratio Lower Upper

264 100

260 24.8 20.8 31.2

265 22.2 16.6 25.0

