

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060815\
 Data File : BG017562.D
 Acq On : 9 Jun 2015 6:37
 Operator : TP/IZ
 Sample : G2450-32 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 AVE-E-NBS13.1(3)

Quant Time: Jun 09 07:13:15 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 09 02:10:45 2015
 Response via : Initial Calibration

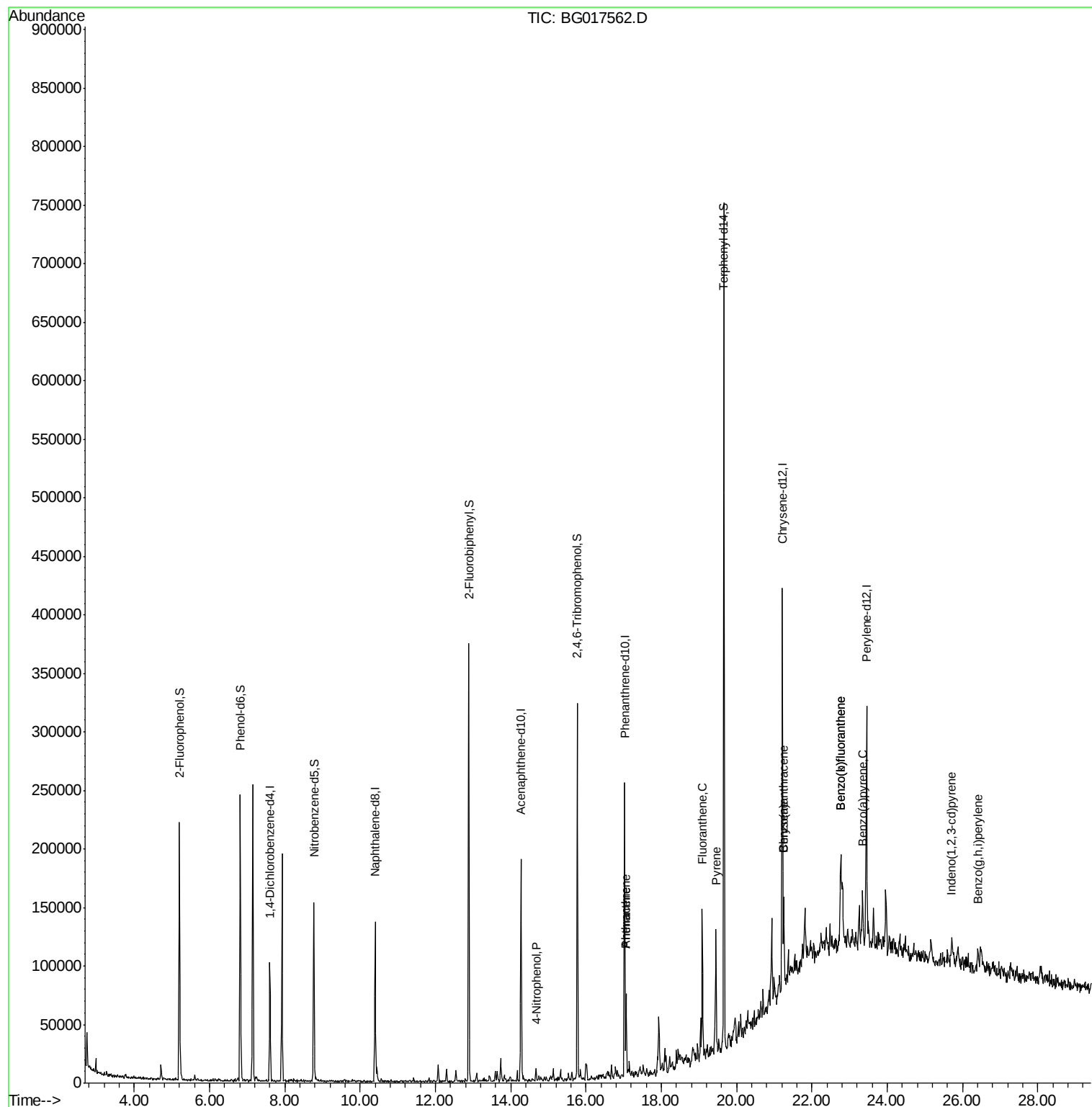
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	22791	20.00	ng	-0.01
21) Naphthalene-d8	10.40	136	94154	20.00	ng	0.00
38) Acenaphthene-d10	14.27	164	59031	20.00	ng	-0.02
63) Phenanthrene-d10	17.02	188	124621	20.00	ng	-0.02
75) Chrysene-d12	21.22	240	140501	20.00	ng	-0.02
86) Perylene-d12	23.45	264	143060	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	75291	58.20	ng	0.00
7) Phenol-d6	6.82	99	98392	55.83	ng	0.00
23) Nitrobenzene-d5	8.77	82	77600	41.14	ng	0.00
41) 2,4,6-Tribromophenol	15.77	330	42965	52.40	ng	-0.01
44) 2-Fluorobiphenyl	12.89	172	164751	42.10	ng	-0.01
78) Terphenyl-d14	19.66	244	242574	35.68	ng	-0.02
Target Compounds						Qvalue
55) 4-Nitrophenol	14.67	139	2258	3.04	ng	# 1
70) Phenanthrene	17.06	178	36579	5.26	ng	97
71) Anthracene	17.06	178	36579	5.27	ng	99
74) Fluoranthene	19.09	202	64682	7.12	ng	99
77) Pyrene	19.45	202	57703	6.67	ng	95
80) Benzo(a)anthracene	21.25	228	35833	4.15	ng	92
82) Chrysene	21.25	228	35833	4.58	ng	95
85) Indeno(1,2,3-cd)pyrene	25.71	276	21285	2.17	ng	# 60
87) Benzo(b)fluoranthene	22.78	252	46496	5.13	ng	92
88) Benzo(k)fluoranthene	22.78	252	46496	5.36	ng	94
89) Benzo(a)pyrene	23.35	252	31178	3.75	ng	# 89
91) Benzo(g,h,i)perylene	26.41	276	19295	2.35	ng	94

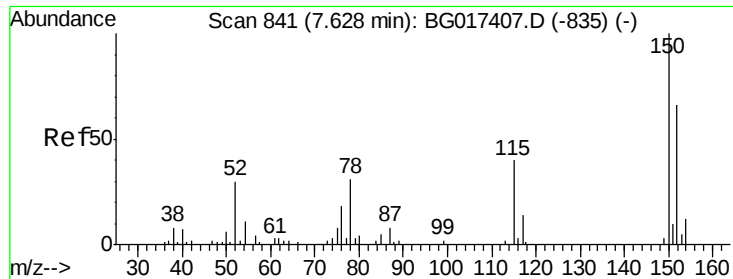
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060815\
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Quant Time: Jun 09 07:13:15 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 09 02:10:45 2015
Response via : Initial Calibration

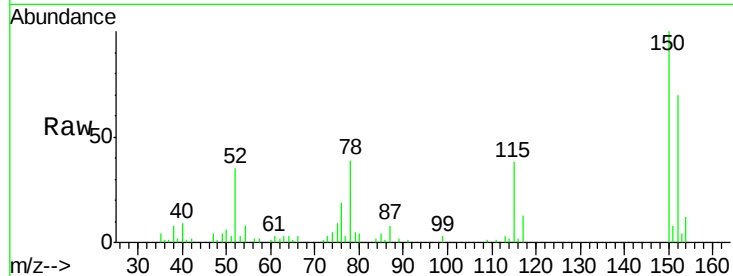




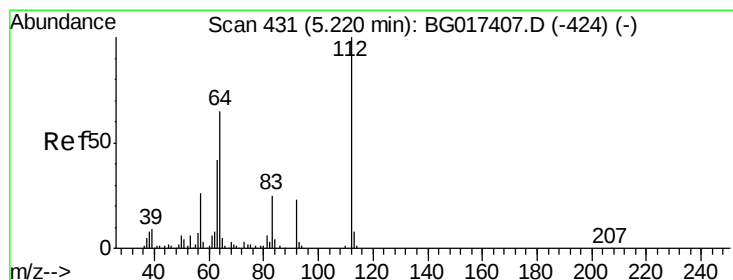
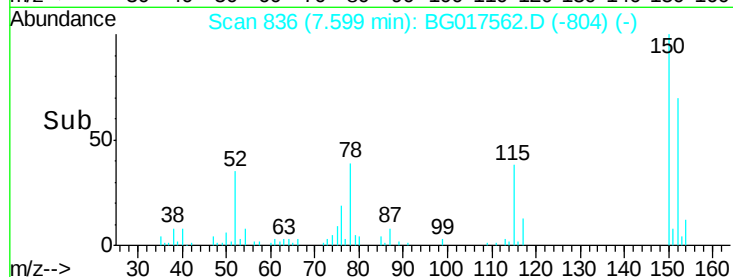
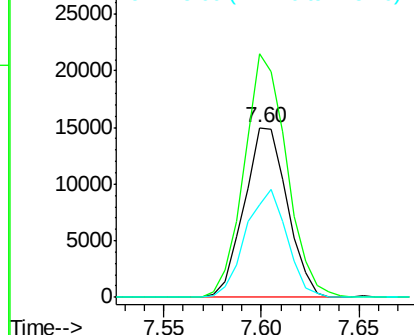
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.60 min Scan# 836
 Delta R.T. -0.01 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

Instrument :
 BNA_G
 ClientSampleId :
 AVE-E-NBS13.1(3)

Tgt Ion:152 Resp: 22791
 Ion Ratio Lower Upper
 152 100
 150 143.5 121.7 182.5
 115 54.7 48.6 73.0

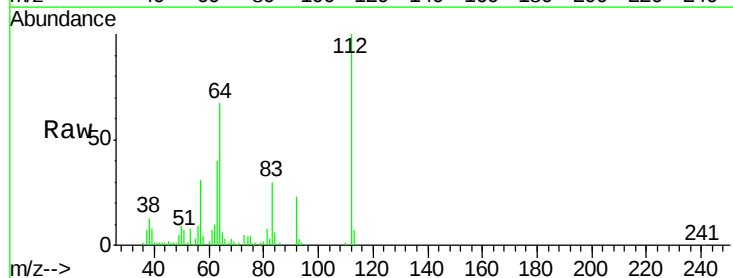


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

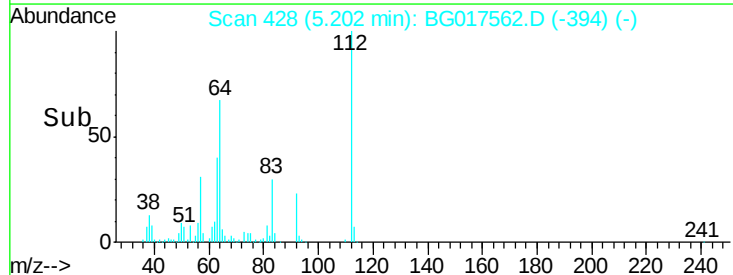
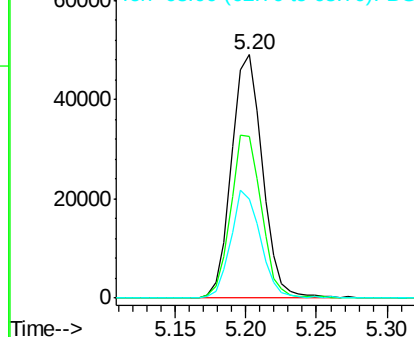


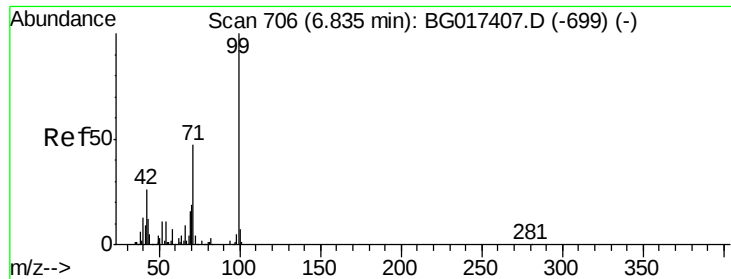
#5
 2-Fluorophenol
 Concen: 58.20 ng
 RT: 5.20 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

Tgt Ion:112 Resp: 75291
 Ion Ratio Lower Upper
 112 100
 64 66.6 51.6 77.4
 63 40.5 33.3 49.9



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BGC
 Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 55.83 ng

RT: 6.82 min Scan# 703

Delta R.T. -0.00 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

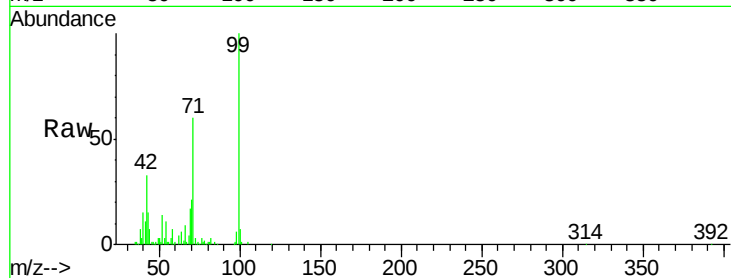
Tgt Ion: 99 Resp: 98392

Ion Ratio Lower Upper

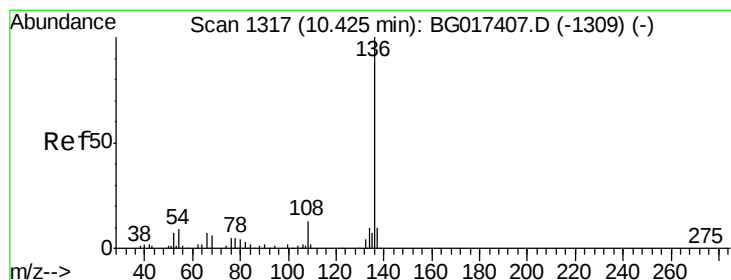
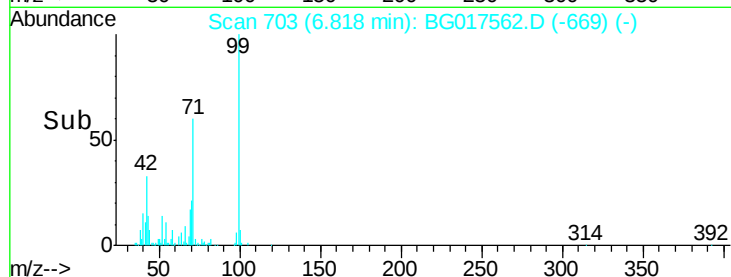
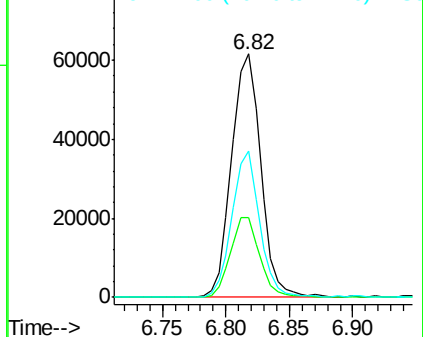
99 100

42 32.6 21.0 31.6#

71 60.3 37.2 55.8#



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.40 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Tgt Ion: 136 Resp: 94154

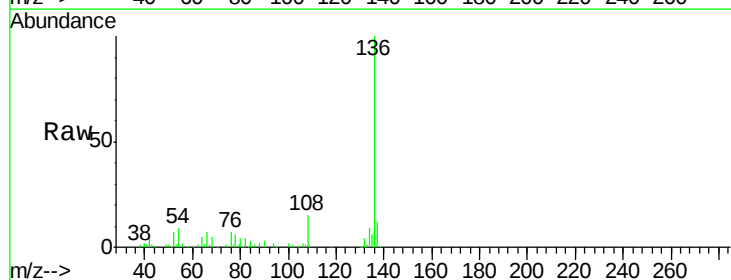
Ion Ratio Lower Upper

136 100

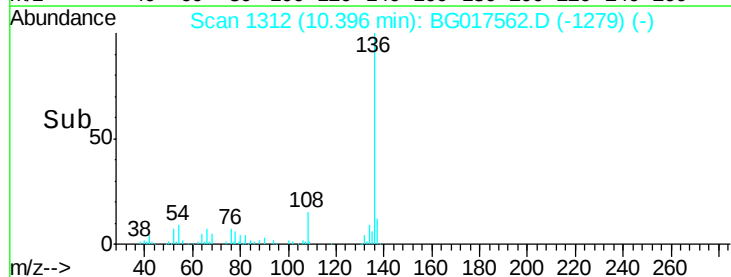
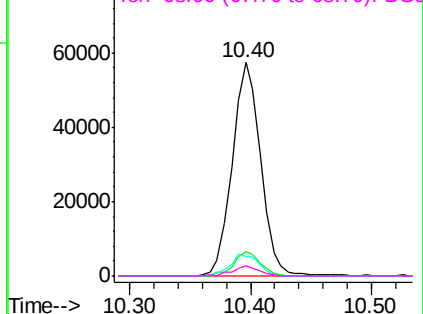
137 11.7 7.9 11.9

54 9.0 7.2 10.8

68 4.9 4.5 6.7



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

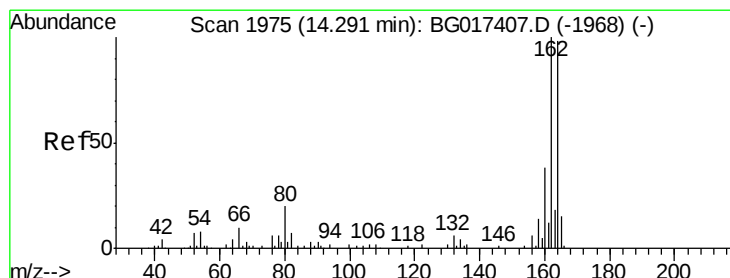
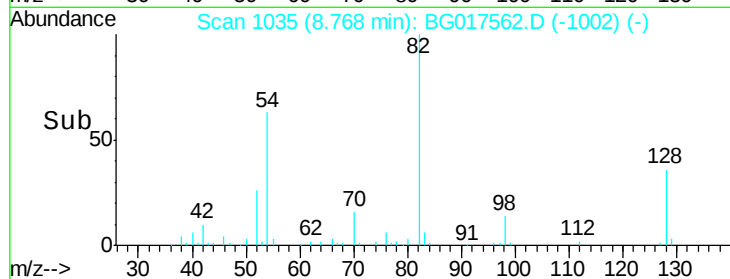
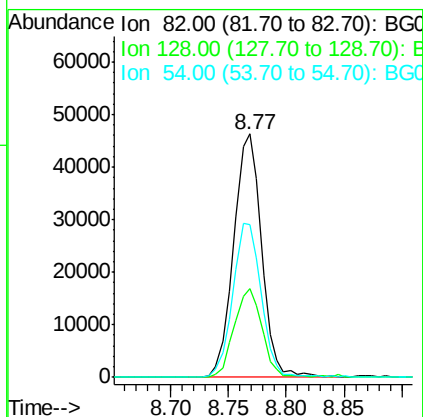
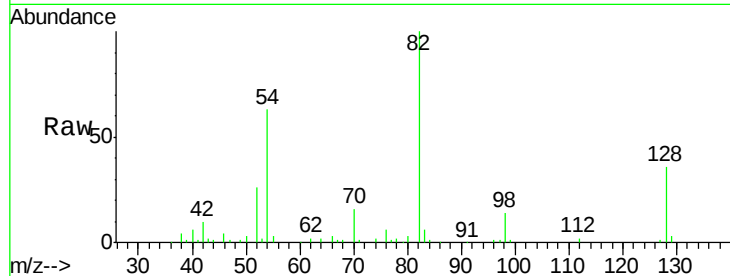




#23
 Nitrobenzene-d5
 Concen: 41.14 ng
 RT: 8.77 min Scan# 1035
 Delta R.T. -0.01 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

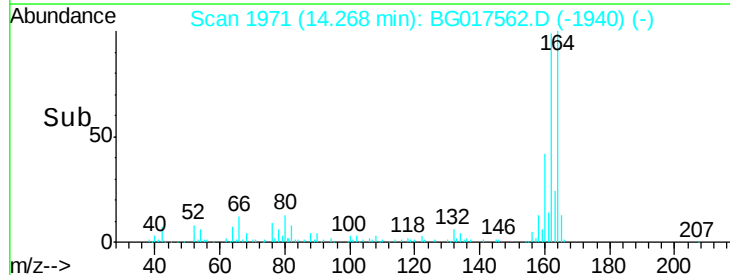
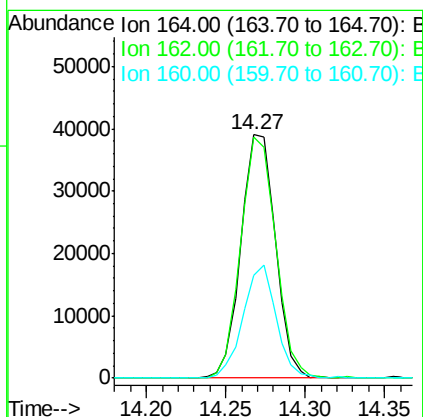
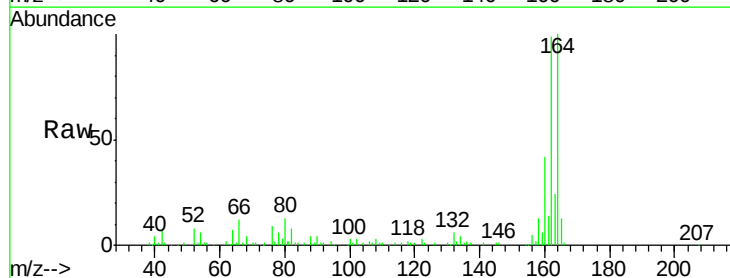
Instrument :
 BNA_G
 ClientSampleId :
 AVE-E-NBS13.1(3)

Tgt Ion: 82 Resp: 77600
 Ion Ratio Lower Upper
 82 100
 128 36.4 32.2 48.4
 54 62.8 47.4 71.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.27 min Scan# 1971
 Delta R.T. -0.02 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

Tgt Ion: 164 Resp: 59031
 Ion Ratio Lower Upper
 164 100
 162 98.9 81.8 122.6
 160 42.3 31.0 46.4

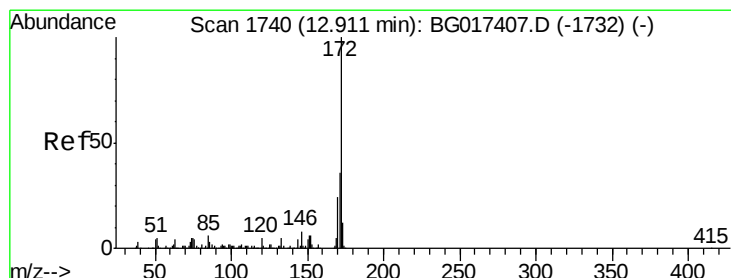
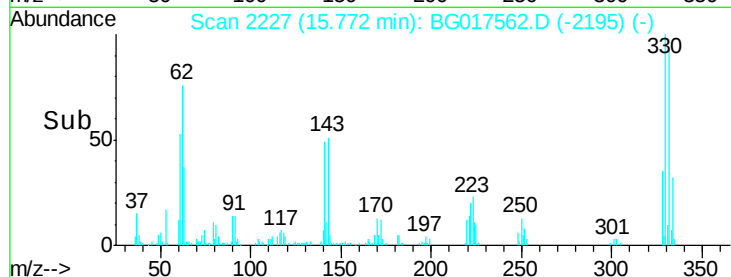
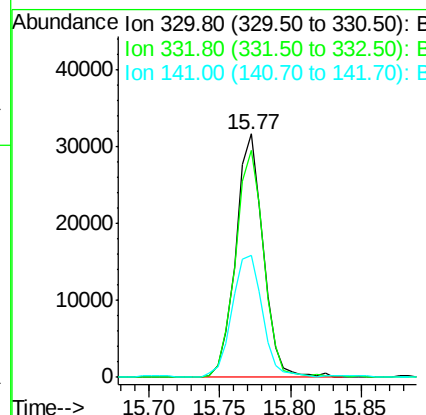
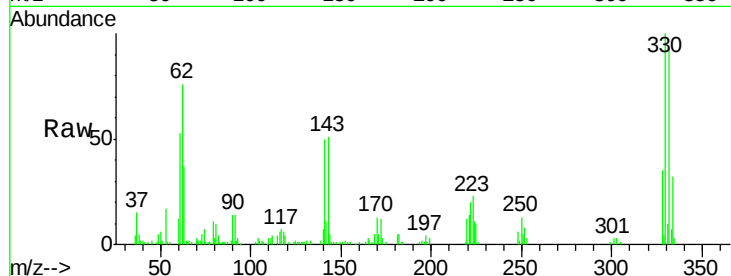




#41
 2,4,6-Tribromophenol
 Concen: 52.40 ng
 RT: 15.77 min Scan# 2227
 Delta R.T. -0.01 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

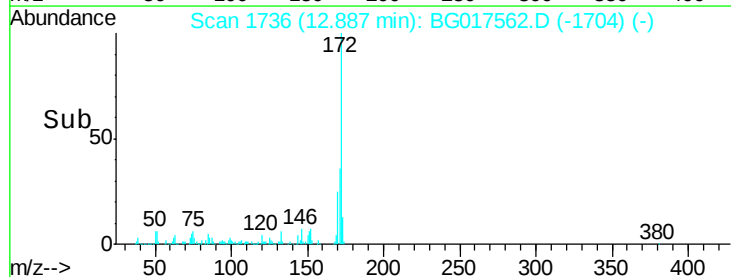
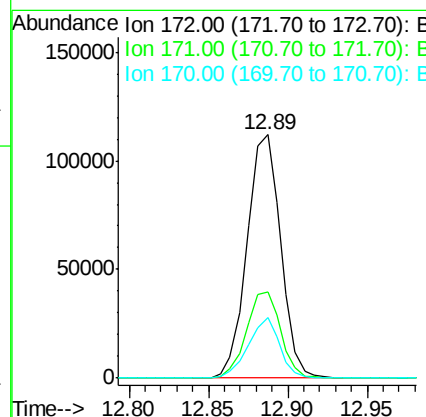
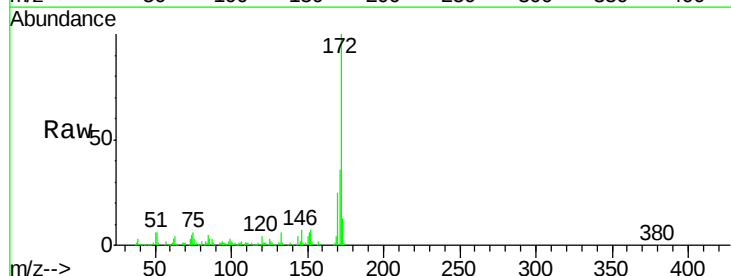
Instrument :
 BNA_G
 ClientSampleId :
 AVE-E-NBS13.1(3)

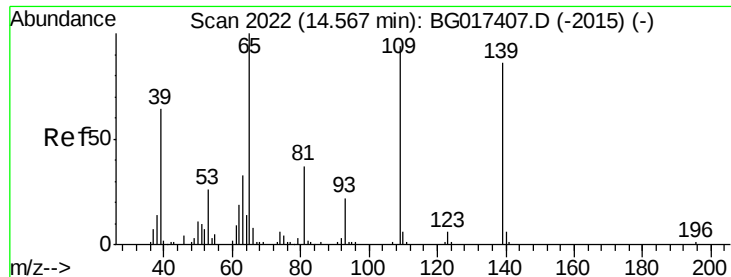
Tgt Ion: 330 Resp: 42965
 Ion Ratio Lower Upper
 330 100
 332 95.3 75.9 113.9
 141 55.3 40.2 60.4



#44
 2-Fluorobiphenyl
 Concen: 42.10 ng
 RT: 12.89 min Scan# 1736
 Delta R.T. -0.01 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

Tgt Ion: 172 Resp: 164751
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.0 43.6
 170 24.8 18.9 28.3

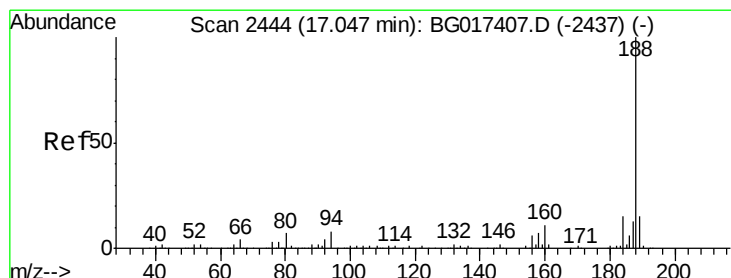
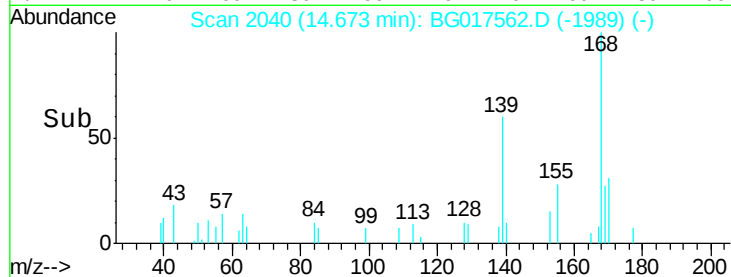
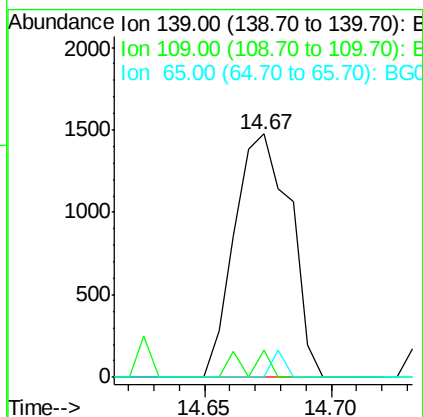
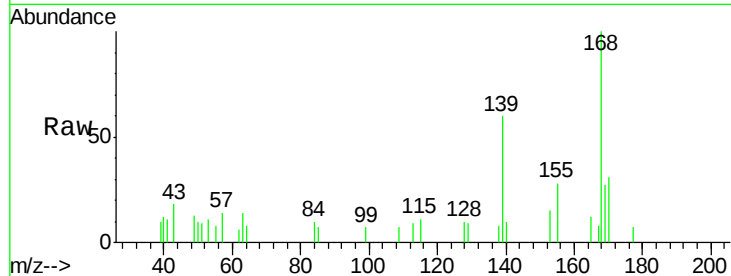




#55
4-Nitrophenol
Concen: 3.04 ng
RT: 14.67 min Scan# 2040
Delta R.T. 0.10 min
Lab File: BG017562.D
Acq: 9 Jun 2015 6:37

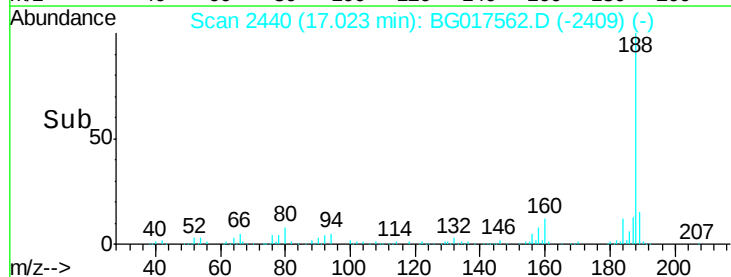
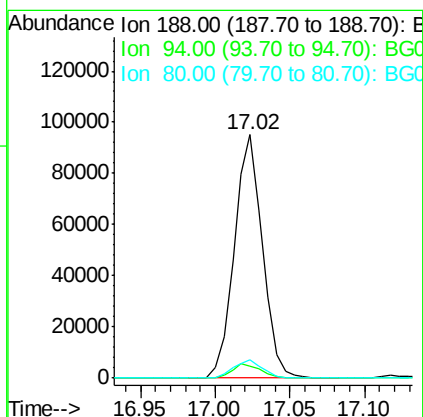
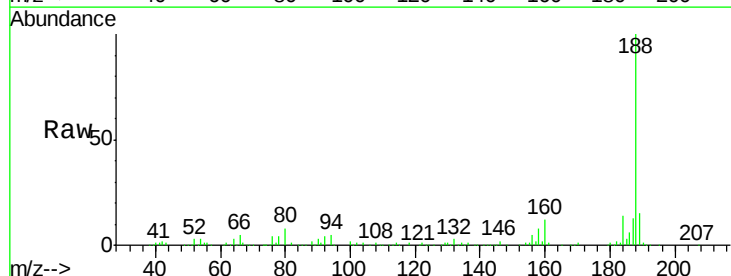
Instrument :
BNA_G
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AVE-E-NBS13.1(3)

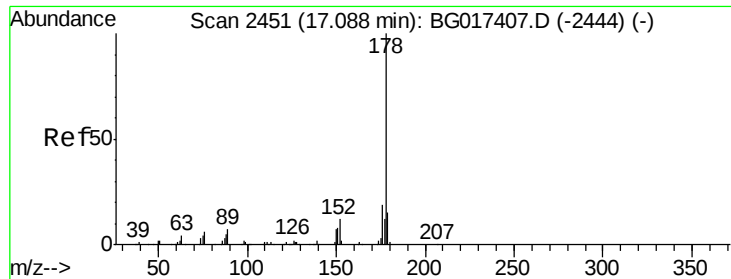
Tgt Ion:139 Resp: 2258
Ion Ratio Lower Upper
139 100
109 11.0 89.5 129.5#
65 0.0 95.9 135.9#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.02 min Scan# 2440
Delta R.T. -0.02 min
Lab File: BG017562.D
Acq: 9 Jun 2015 6:37

Tgt Ion:188 Resp: 124621
Ion Ratio Lower Upper
188 100
94 4.9 6.3 9.5#
80 7.6 5.2 7.8





#70

Phenanthrene

Concen: 5.26 ng

RT: 17.06 min Scan# 2447

Delta R.T. -0.02 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

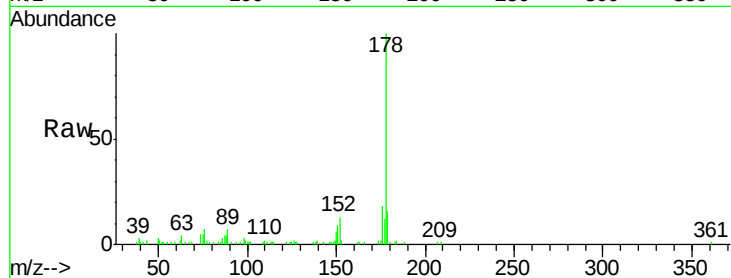
Tgt Ion:178 Resp: 36579

Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

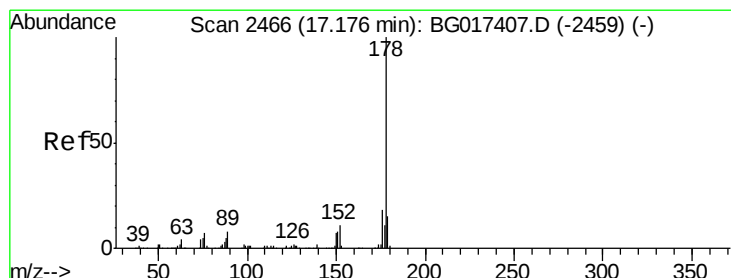
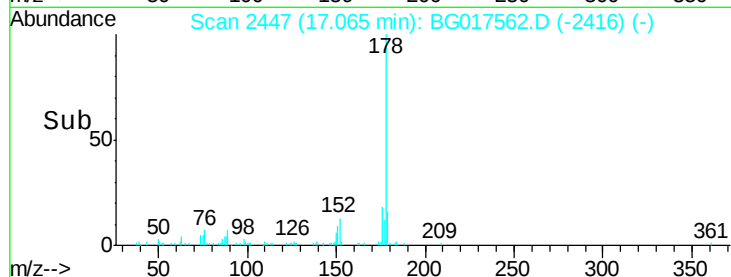
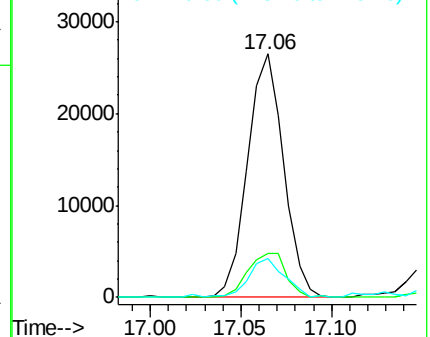
179 16.2 12.2 18.2



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



#71

Anthracene

Concen: 5.27 ng

RT: 17.06 min Scan# 2447

Delta R.T. -0.11 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

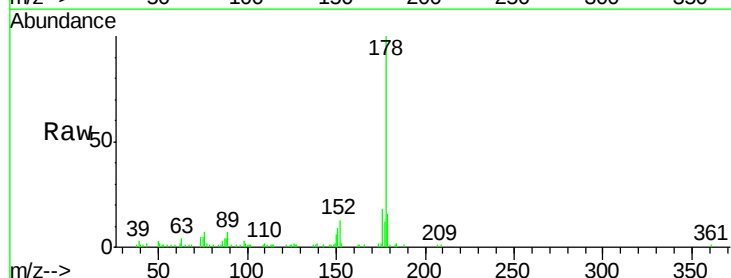
Tgt Ion:178 Resp: 36579

Ion Ratio Lower Upper

178 100

176 18.1 14.2 21.2

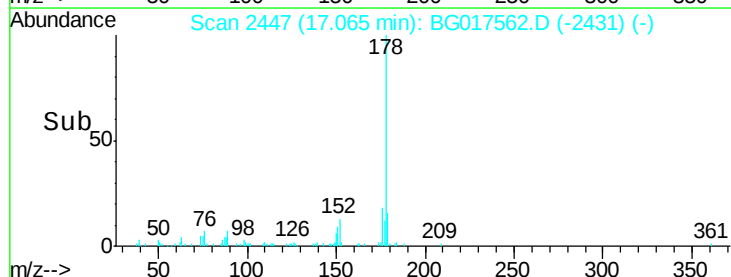
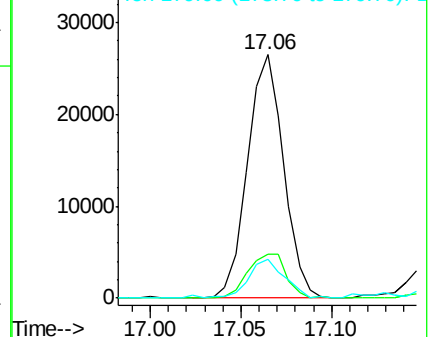
179 16.2 12.2 18.4

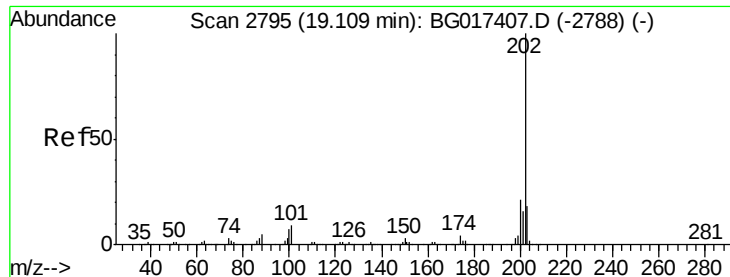


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.12 ng

RT: 19.09 min Scan# 2791

Delta R.T. -0.02 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

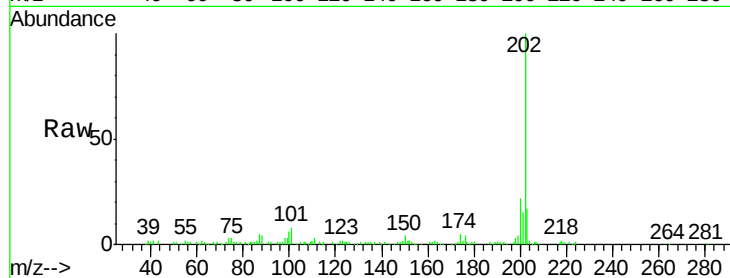
Tgt Ion:202 Resp: 64682

Ion Ratio Lower Upper

202 100

101 8.5 0.0 28.8

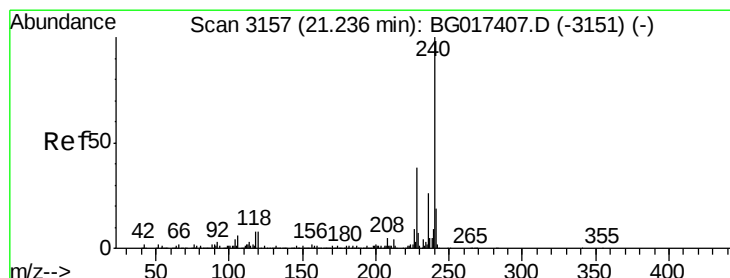
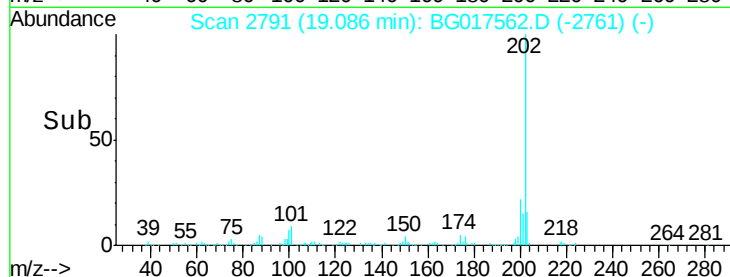
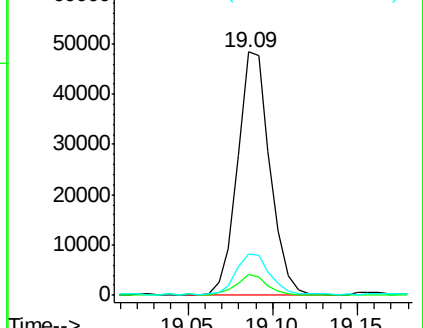
203 16.9 0.0 37.6



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.22 min Scan# 3154

Delta R.T. -0.02 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

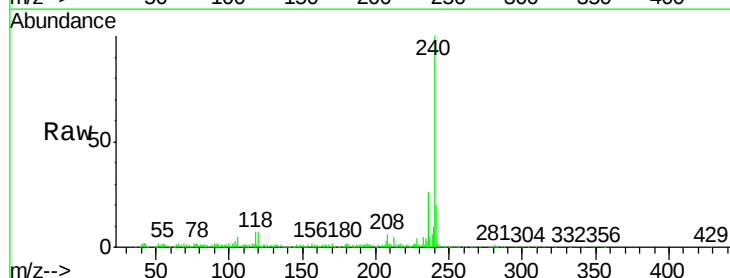
Tgt Ion:240 Resp: 140501

Ion Ratio Lower Upper

240 100

120 7.4 6.5 9.7

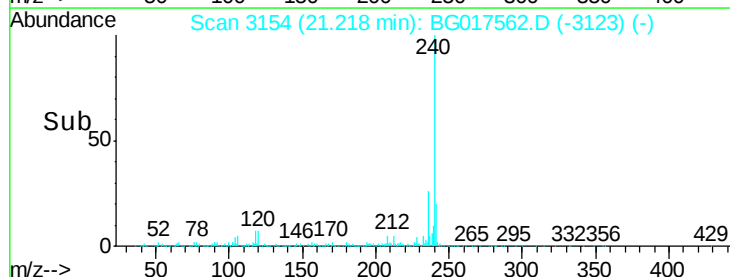
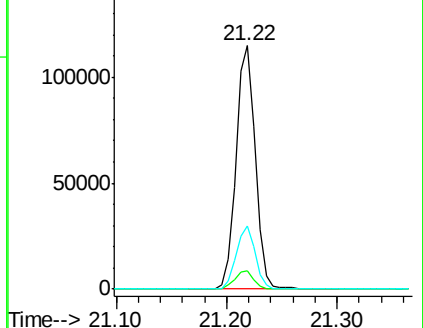
236 25.7 20.8 31.2

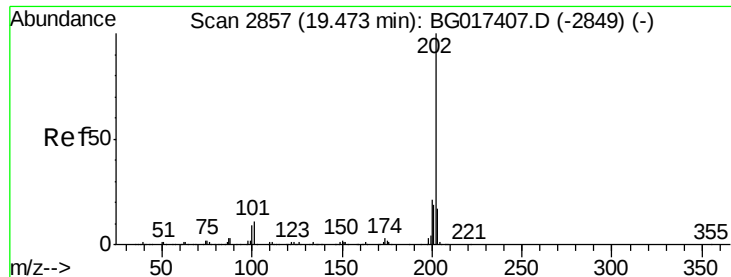


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

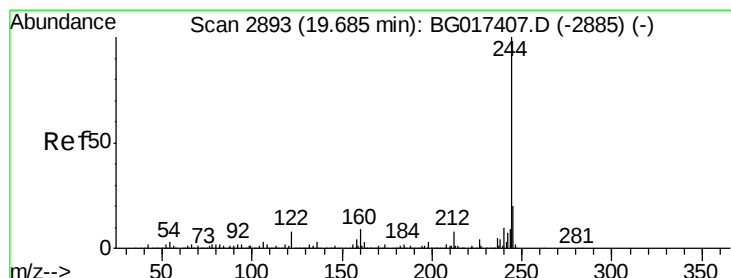
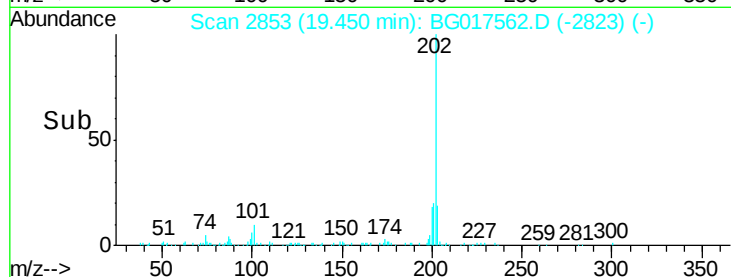
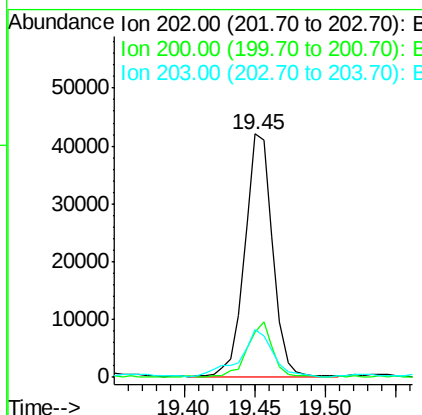
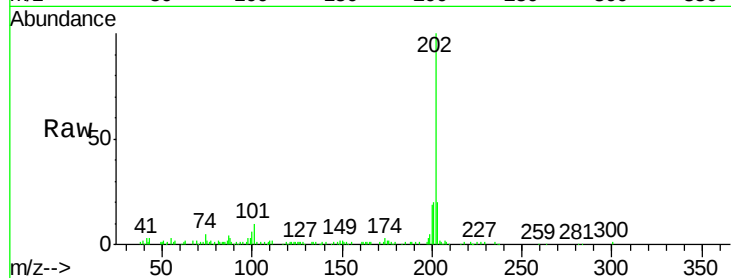




#77
 Pyrene
 Concen: 6.67 ng
 RT: 19.45 min Scan# 2853
 Delta R.T. -0.02 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

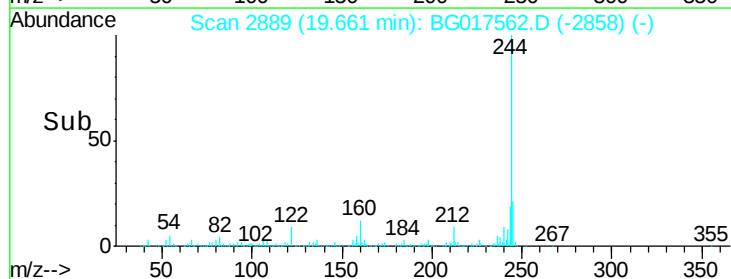
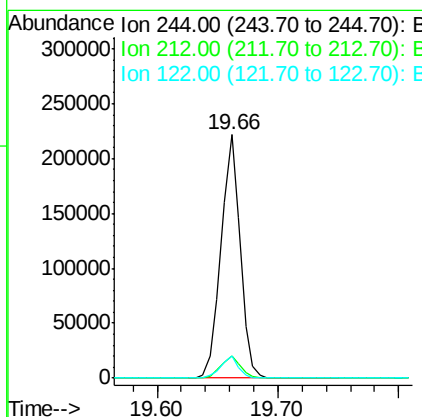
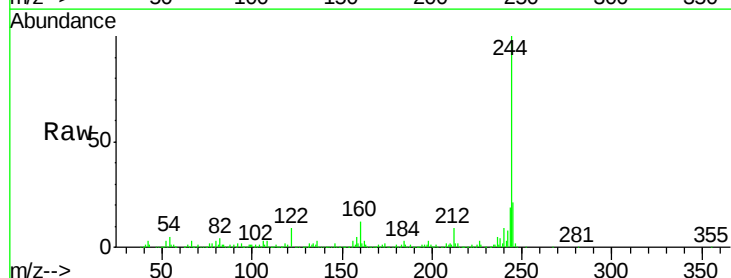
Instrument :
 BNA_G
 ClientSampleId :
 AVE-E-NBS13.1(3)

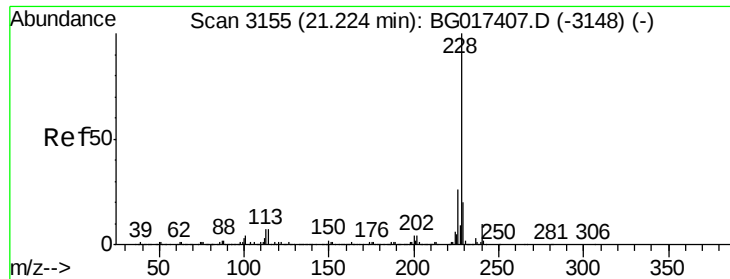
Tgt Ion	Ratio	Lower	Upper
202	100		
200	18.8	17.0	25.4
203	19.6	13.9	20.9



#78
 Terphenyl-d14
 Concen: 35.68 ng
 RT: 19.66 min Scan# 2889
 Delta R.T. -0.02 min
 Lab File: BG017562.D
 Acq: 9 Jun 2015 6:37

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	6.4	9.6
122	8.9	6.6	10.0





#80

Benzo(a)anthracene

Concen: 4.15 ng

RT: 21.25 min Scan# 3160

Delta R.T. 0.03 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

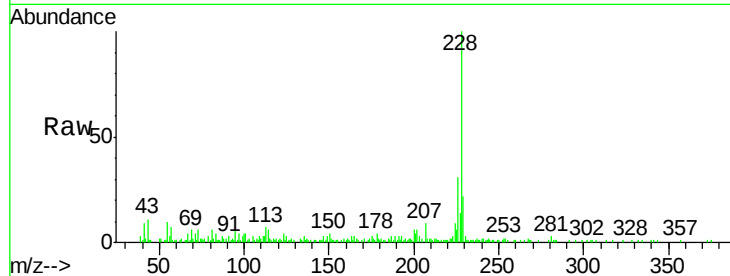
Tgt Ion:228 Resp: 35833

Ion Ratio Lower Upper

228 100

226 31.1 21.0 31.6

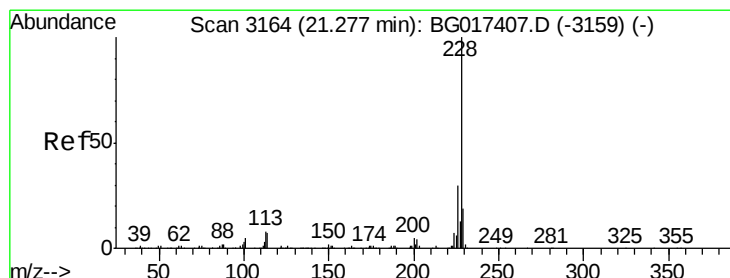
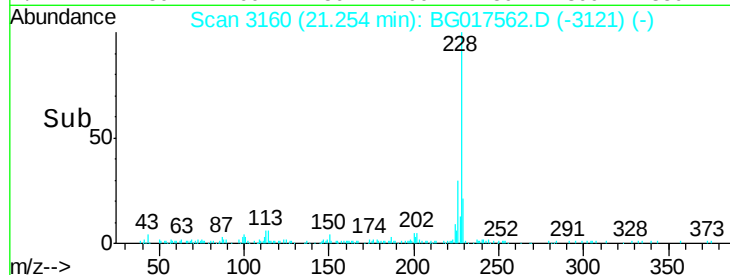
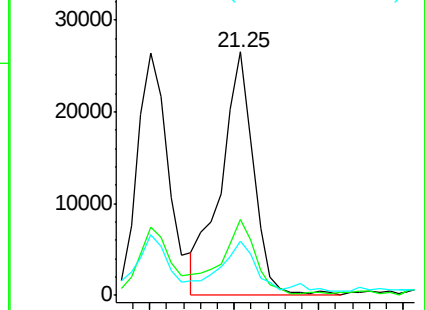
229 22.5 15.7 23.5



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



#82

Chrysene

Concen: 4.58 ng

RT: 21.25 min Scan# 3160

Delta R.T. -0.02 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

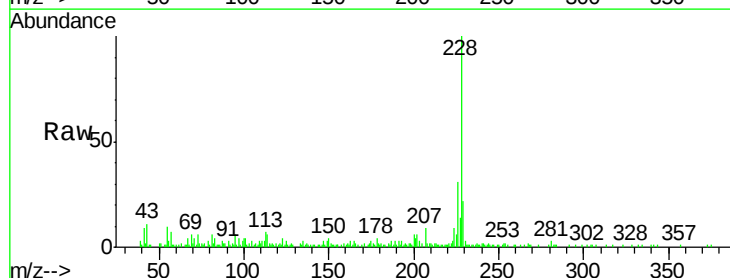
Tgt Ion:228 Resp: 35833

Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

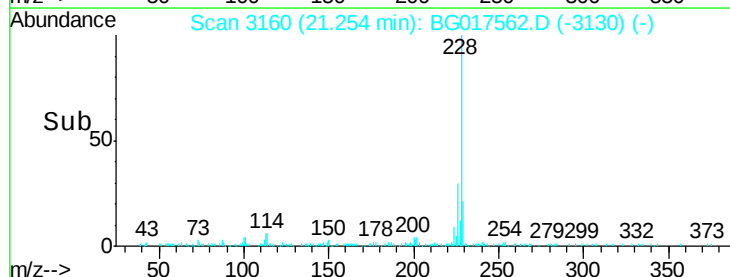
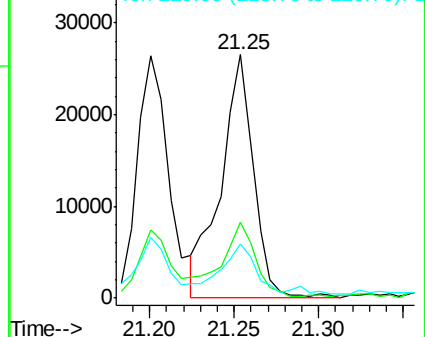
229 22.5 15.2 22.8

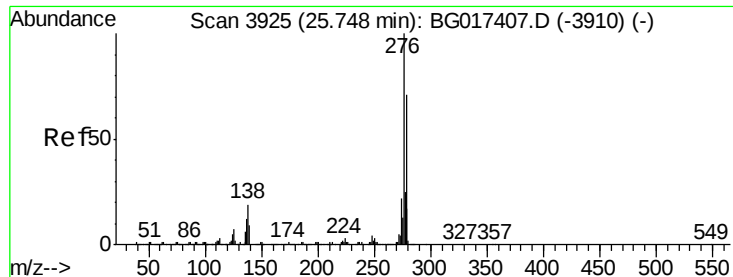


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.17 ng

RT: 25.71 min Scan# 3918

Delta R.T. -0.06 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

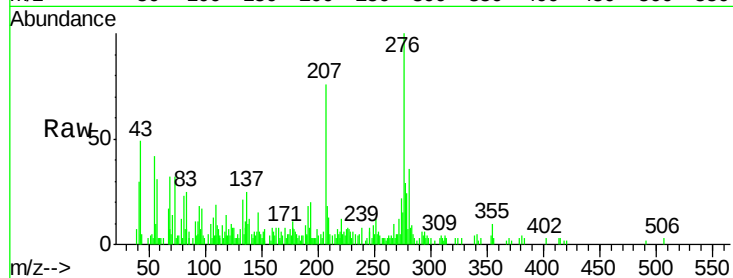
Tgt Ion:276 Resp: 21285

Ion Ratio Lower Upper

276 100

138 7.0 15.4 23.0#

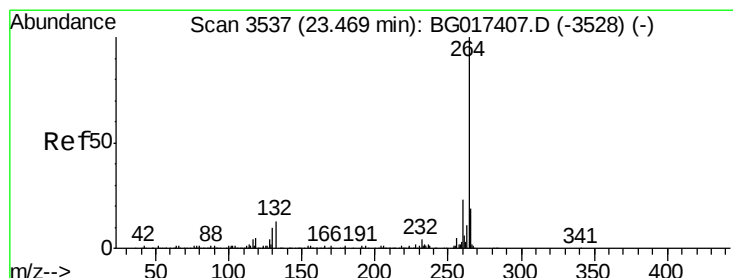
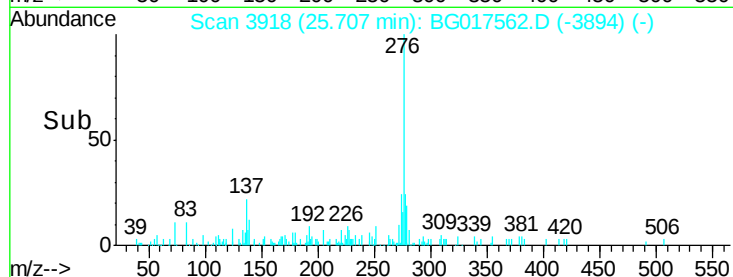
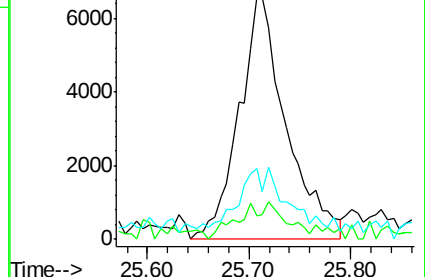
277 0.0 20.5 30.7#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.45 min Scan# 3534

Delta R.T. -0.02 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

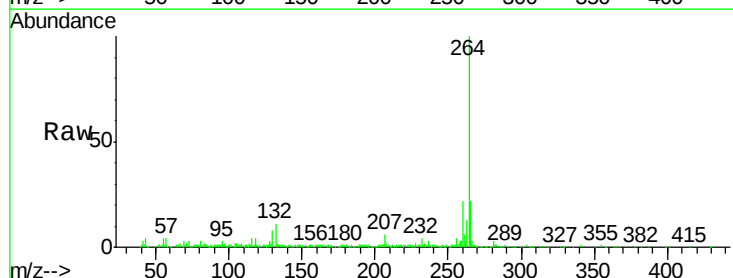
Tgt Ion:264 Resp: 143060

Ion Ratio Lower Upper

264 100

260 21.8 18.2 27.4

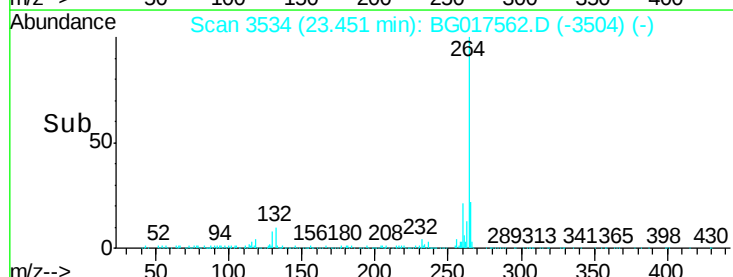
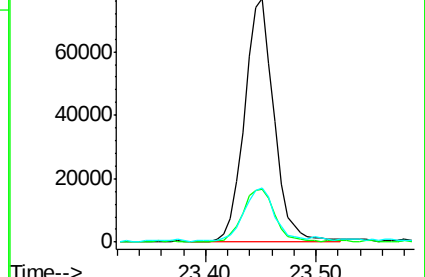
265 22.1 15.8 23.6

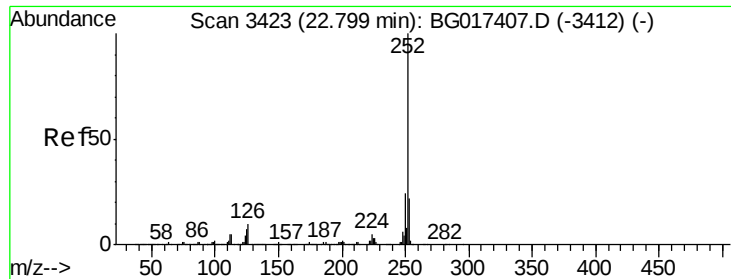


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.13 ng

RT: 22.78 min Scan# 3419

Delta R.T. -0.03 min

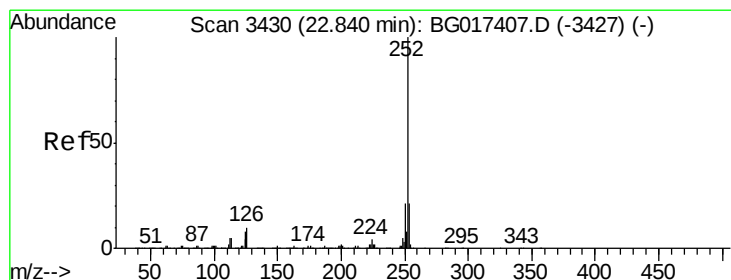
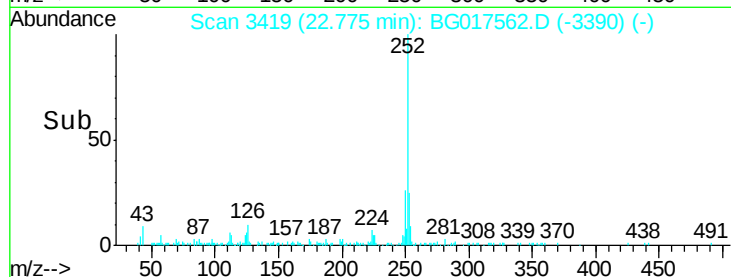
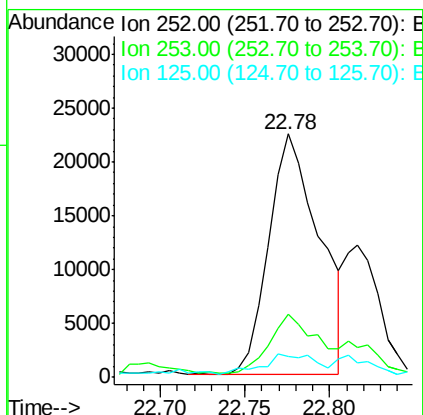
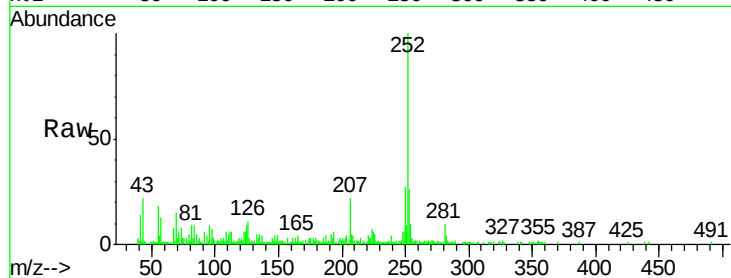
Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :
BNA_G
ClientSampleId :
AVE-E-NBS13.1(3)

Tgt Ion:252 Resp: 46496

Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.4	26.2
125	8.7	5.8	8.8



#88

Benzo(k)fluoranthene

Concen: 5.36 ng

RT: 22.78 min Scan# 3419

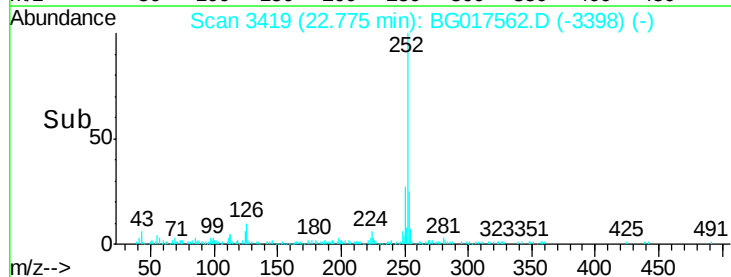
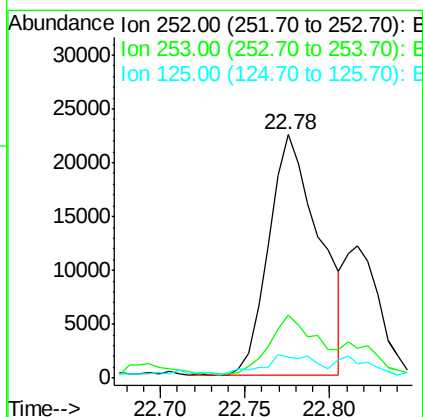
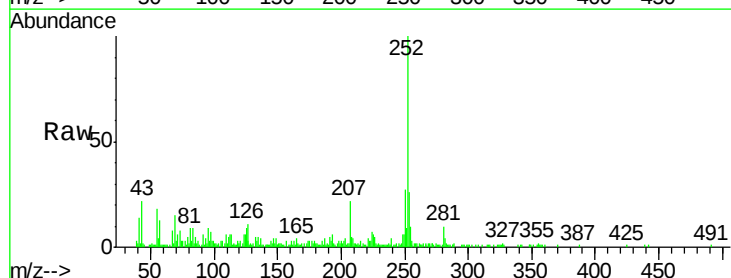
Delta R.T. -0.08 min

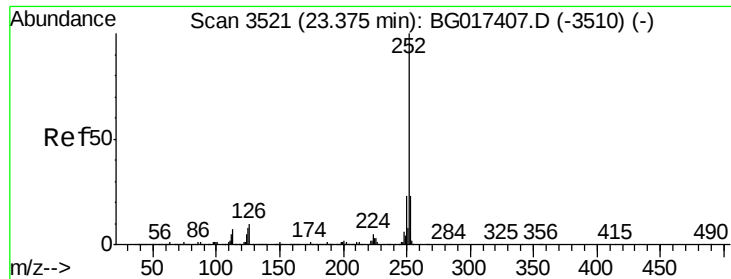
Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Tgt Ion:252 Resp: 46496

Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.7	26.5
125	8.7	6.5	9.7





#89

Benzo(a)pyrene

Concen: 3.75 ng

RT: 23.35 min Scan# 3516

Delta R.T. -0.04 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

Instrument :

BNA_G

ClientSampleId :

AVE-E-NBS13.1(3)

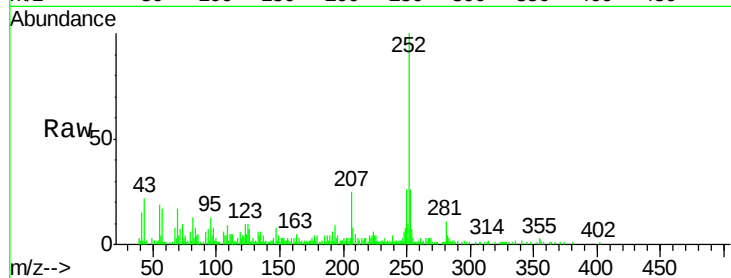
Tgt Ion:252 Resp: 31178

Ion Ratio Lower Upper

252 100

253 26.0 18.1 27.1

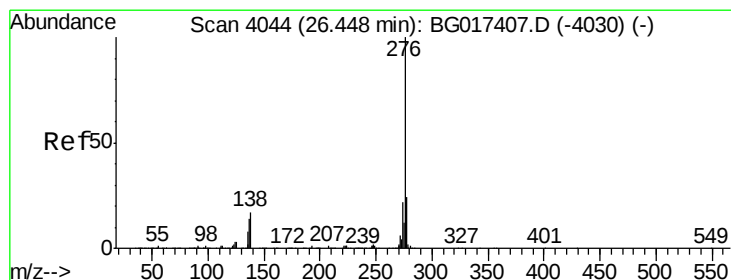
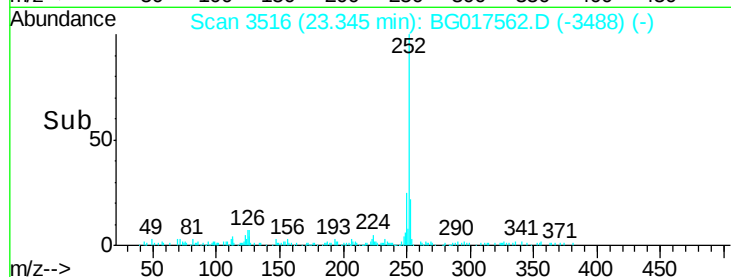
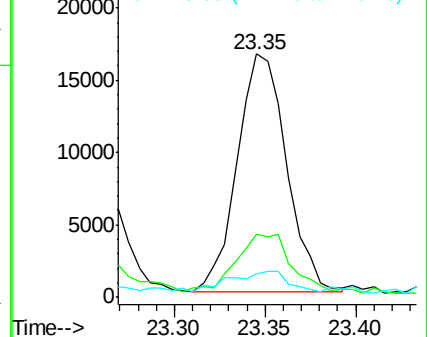
125 16.3 6.5 9.7#



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



#91

Benzo(g,h,i)perylene

Concen: 2.35 ng

RT: 26.41 min Scan# 4037

Delta R.T. -0.07 min

Lab File: BG017562.D

Acq: 9 Jun 2015 6:37

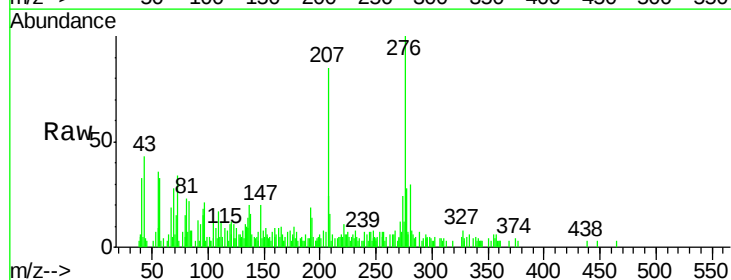
Tgt Ion:276 Resp: 19295

Ion Ratio Lower Upper

276 100

277 28.2 19.2 28.8

138 15.9 13.5 20.3



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

