

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082517\
 Data File : BG082500.D
 Acq On : 25 Aug 2017 21:01
 Operator : SJ/JU
 Sample : I4885-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B0AS7

Quant Time: Aug 26 01:56:14 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Aug 26 01:54:26 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.34	152	39175	20.00	ng/ul	0.00
18) Naphthalene-d8	11.16	136	175499	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.95	164	119070	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.70	188	277779	20.00	ng/ul	0.00
75) Chrysene-d12	22.04	240	355020	20.00	ng/ul	0.00
83) Perylene-d12	25.54	264	339440	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.82	96	4802	5.71	ng/uL	0.00
5) Phenol-d5	7.49	99	111957	26.02	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.65	67	70776	25.98	ng/ul	0.00
9) 2-Chlorophenol-d4	7.88	132	84306	31.06	ng/ul	0.00
13) 4-Methylphenol-d8	9.03	113	88318	24.56	ng/ul	0.00
19) Nitrobenzene-d5	9.51	128	44763	32.62	ng/ul	0.00
22) 2-Nitrophenol-d4	10.23	143	54459	36.19	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.78	165	103055	33.10	ng/ul	0.00
29) 4-Chloroaniline-d4	11.29	131	67059	19.35	ng/ul	0.00
43) Dimethylphthalate-d6	14.34	166	339742	32.08	ng/ul	0.00
46) Acenaphthylene-d8	14.65	160	393325	32.94	ng/ul	0.00
51) 4-Nitrophenol-d4	15.15	143	44825	26.62	ng/ul	0.00
57) Fluorene-d10	15.94	176	292136	30.75	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.06	200	45543	25.24	ng/ul	0.00
70) Anthracene-d10	17.80	188	462536	34.72	ng/ul	0.00
76) Pyrene-d10	20.08	212	556094	30.54	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.31	264	543951	34.23	ng/ul	0.02

Target Compounds

					Ovalue	
4) Benzaldehyde	7.48	77	4913	1.976	ng/ul#	1
6) Phenol	7.52	94	8972	2.098	ng/ul#	95
15) N-Nitroso-di-n-propylamine	9.04	70	3191	1.095	ng/ul#	1
16) 4-Methylphenol	9.10	108	5158	1.514	ng/ul	88
17) Hexachloroethane	9.44	117	1982	1.808	ng/ul#	1
28) Naphthalene	11.21	128	117243	13.489	ng/ul	97
34) 2-Methylnaphthalene	12.79	142	159683	22.872	ng/ul	86
40) 1,1'-Biphenyl	13.78	154	24296	2.794	ng/ul#	95
44) Dimethylphthalate	14.39	163	216371	22.189	ng/ul	99
47) Acenaphthylene	14.68	152	31503	2.761	ng/ul#	81
49) Acenaphthene	15.01	153	22887	2.973	ng/ul	89
53) Dibenzofuran	15.34	168	28387	2.529	ng/ul	95
58) Fluorene	16.00	166	31152	3.135	ng/ul#	95
69) Phenanthrene	17.75	178	517460	37.016	ng/ul	98
71) Anthracene	17.84	178	114280	7.999	ng/ul	98
72) Carbazole	18.11	167	63144	5.082	ng/ul	99
74) Fluoranthene	19.74	202	1242008	73.106	ng/ul	99
77) Pyrene	20.11	202	1139599	53.803	ng/ul	99
80) Benzo(a)anthracene	22.02	228	873428	42.580	ng/ul	97
82) Chrysene	22.09	228	820268	44.401	ng/ul	96
85) Benzo(b)fluoranthene	24.49	252	382640	18.838	ng/ul	94
86) Benzo(k)fluoranthene	24.49	252	380928	19.199	ng/ul	96
88) Benzo(a)pyrene	25.39	252	892222	45.366	ng/ul	97

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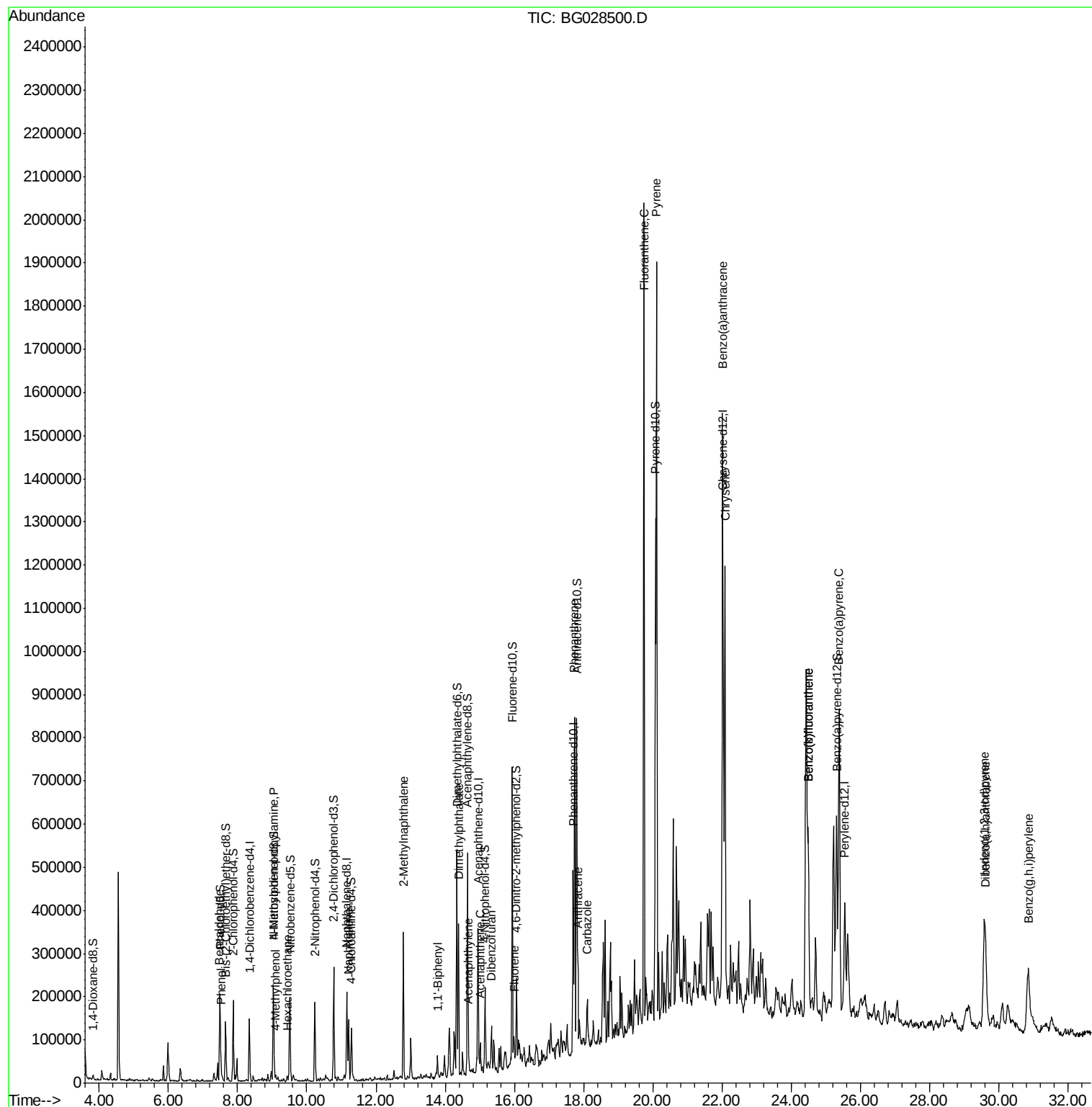
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	29.59	276	550980	23.923	ng/ul	95
90) Dibenzo(a,h)anthracene	29.62	278	149447	7.742	ng/ul#	90
91) Benzo(q,h,i)perylene	30.86	276	416883	22.002	ng/ul	97

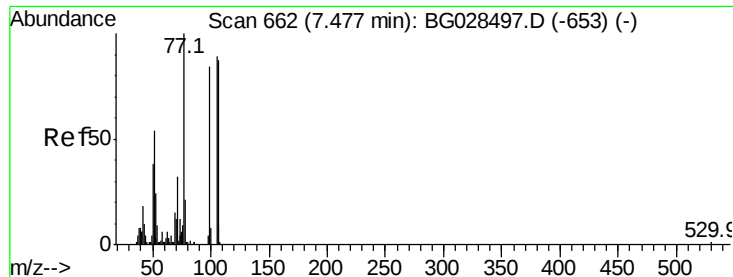
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.976 ng/ul

RT: 7.48 min Scan# 662

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

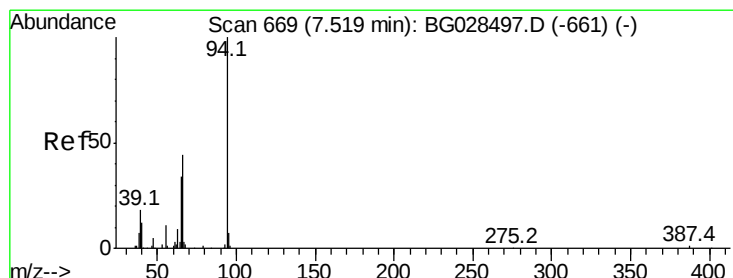
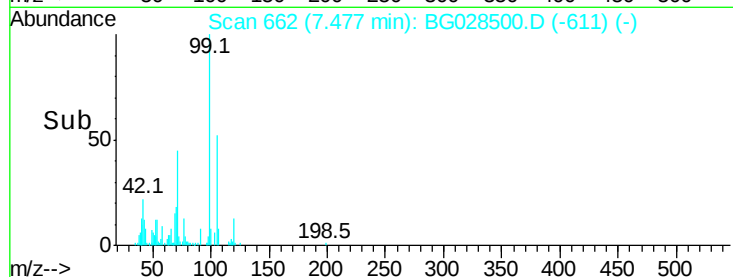
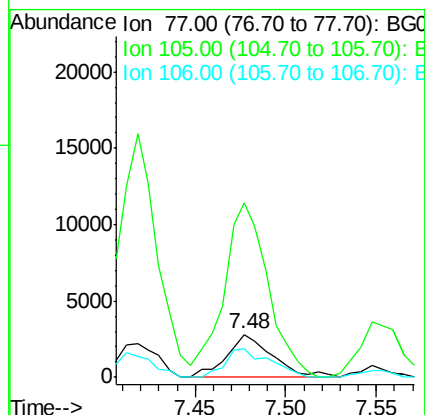
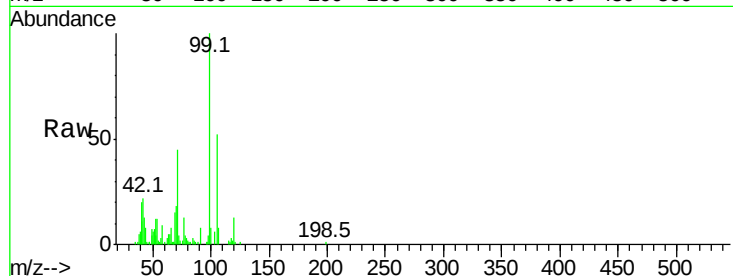
Tot Ion: 77 Resp: 4913

Ion Ratio Lower Upper

77 100

105 405.9 62.0 93.0#

106 65.1 60.2 90.4



#6

Phenol

Concen: 2.098 ng/ul

RT: 7.52 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

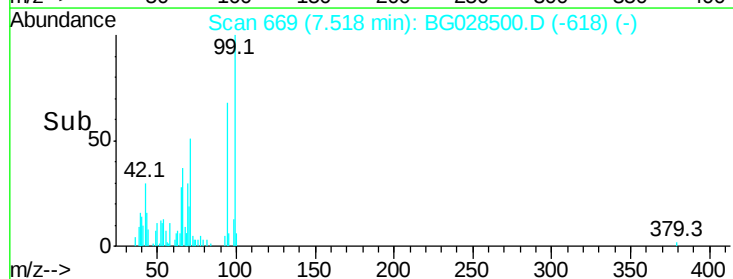
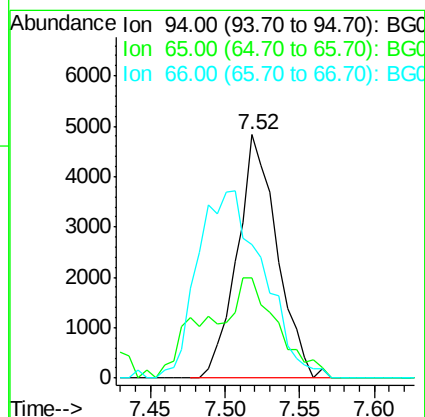
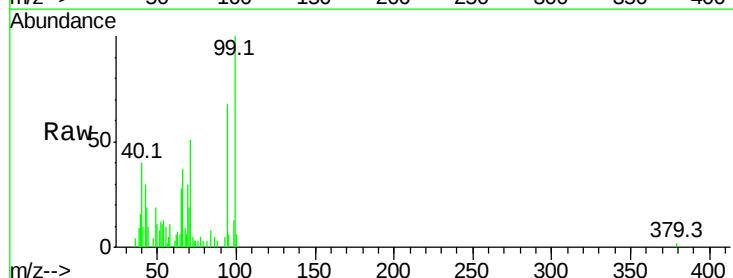
Tgt Ion: 94 Resp: 8972

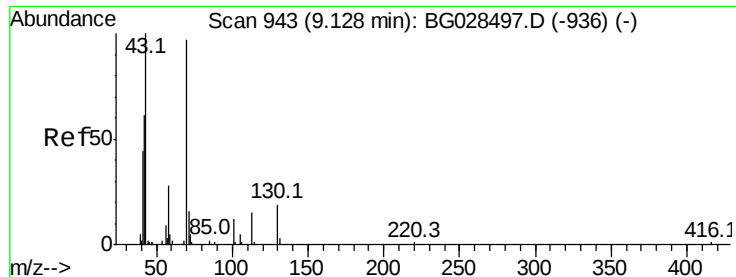
Ion Ratio Lower Upper

94 100

65 40.9 26.8 40.2#

66 54.9 44.4 66.6





#15

N-Nitroso-di-n-propylamine

Concen: 1.095 ng/ul

RT: 9.04 min Scan# 928

Delta R.T. -0.09 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

Tot Ion: 70 Resp: 3191

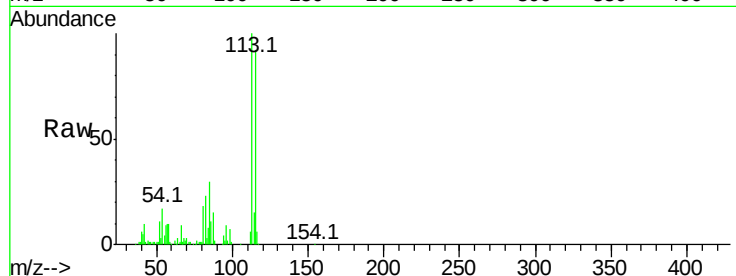
Ion Ratio Lower Upper

70 100

42 313.2 59.0 88.6#

101 0.0 6.6 9.8#

130 0.0 15.6 23.4#

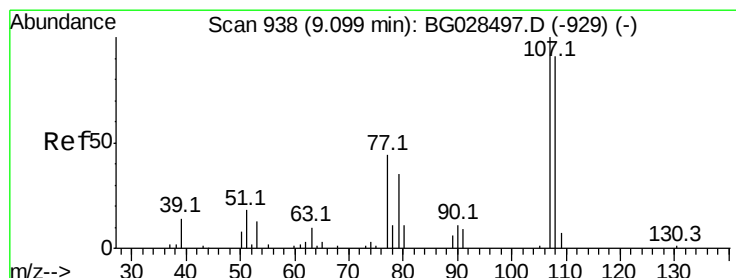
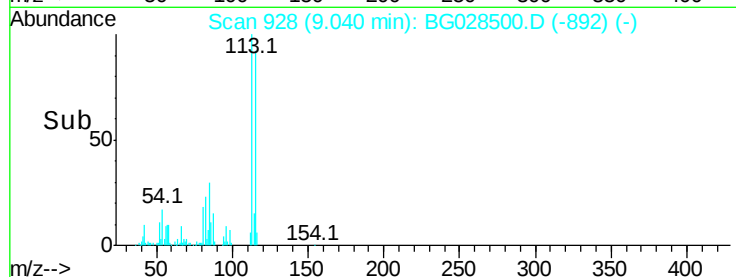
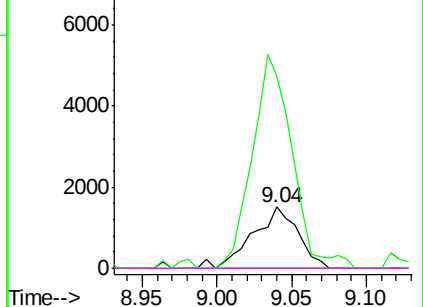


Abundance Ion 70.00 (69.70 to 70.70): BG0

Ion 42.00 (41.70 to 42.70): BG0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#16

4-Methylphenol

Concen: 1.514 ng/ul

RT: 9.10 min Scan# 939

Delta R.T. 0.01 min

Lab File: BG028500.D

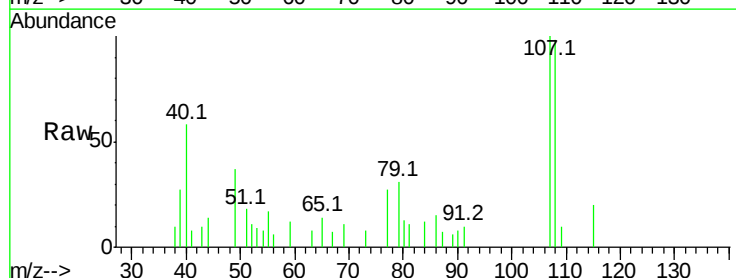
Acq: 25 Aug 2017 21:01

Tgt Ion: 108 Resp: 5158

Ion Ratio Lower Upper

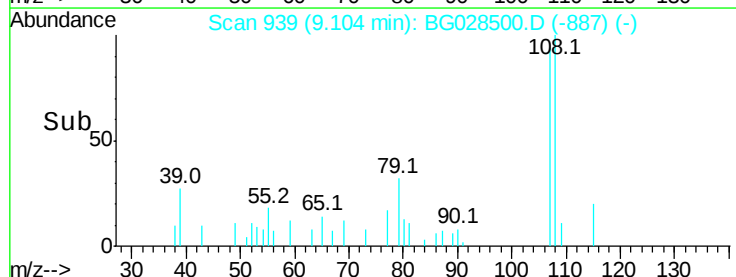
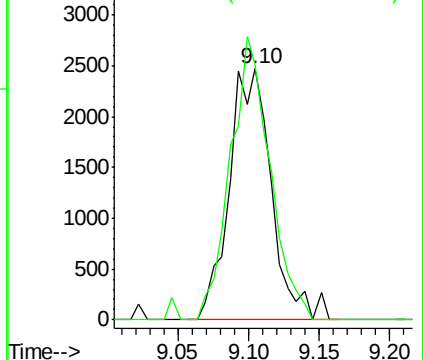
108 100

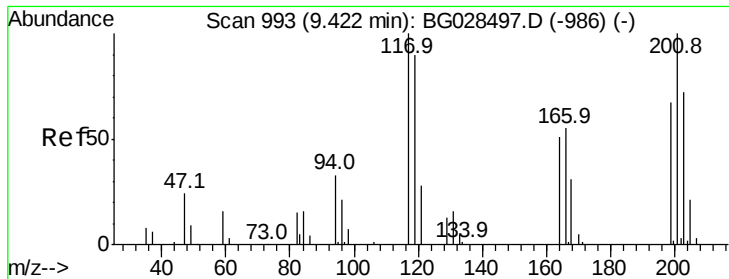
107 102.0 91.7 137.5



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

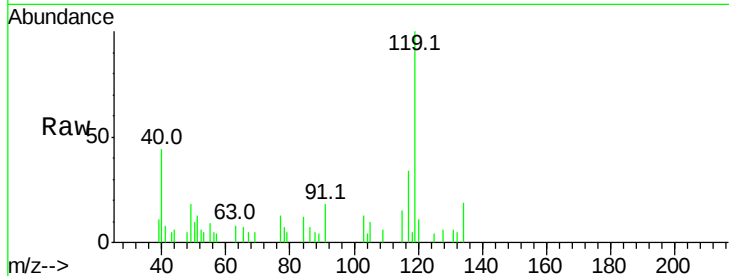




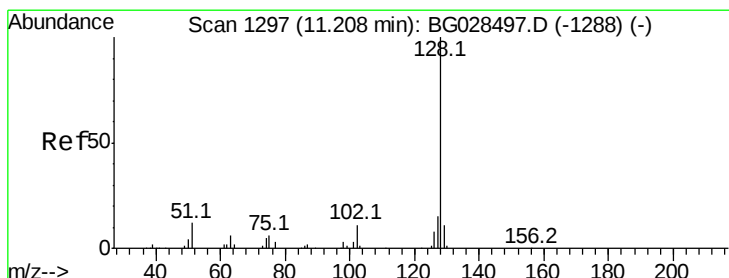
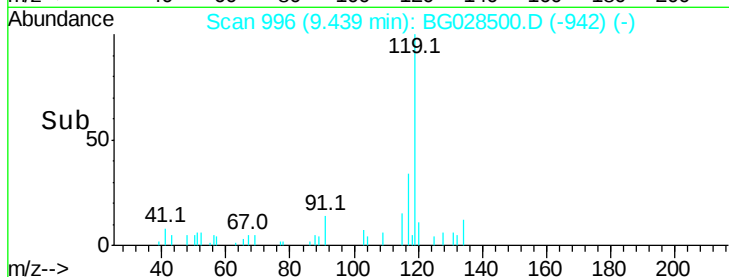
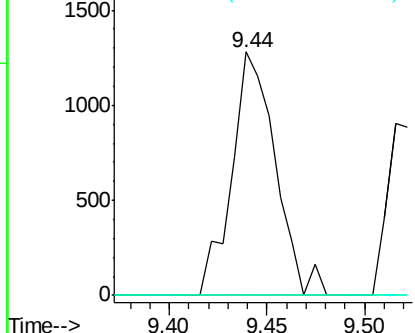
#17
Hexachloroethane
Concen: 1.808 ng/ul
RT: 9.44 min Scan# 996
Delta R.T. 0.02 min
Lab File: BG028500.D
Acq: 25 Aug 2017 21:01

Instrument :
BNA_G
ClientSampleId :
B0AS7

Tot Ion:117 Resp: 1982
Ion Ratio Lower Upper
117 100
201 0.0 91.9 137.9#
199 0.0 64.3 96.5#

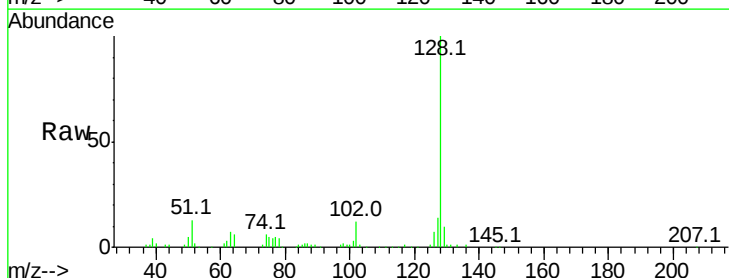


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

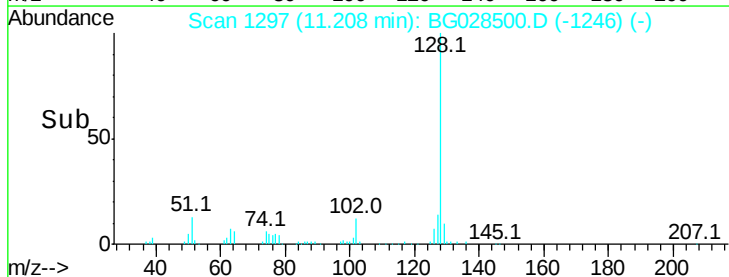
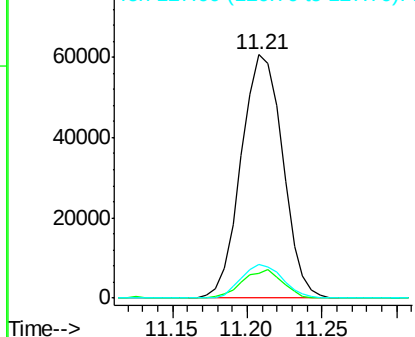


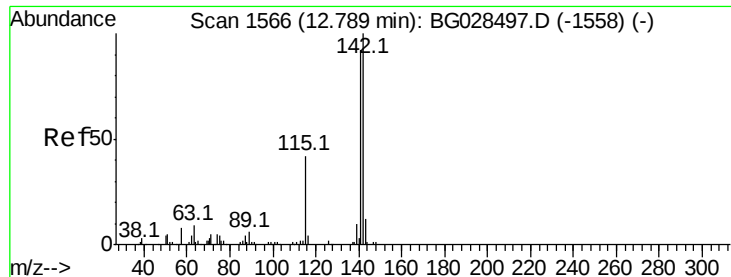
#28
Naphthalene
Concen: 13.489 ng/ul
RT: 11.21 min Scan# 1297
Delta R.T. -0.00 min
Lab File: BG028500.D
Acq: 25 Aug 2017 21:01

Tgt Ion:128 Resp: 117243
Ion Ratio Lower Upper
128 100
129 10.3 9.4 14.2
127 13.8 10.3 15.5



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

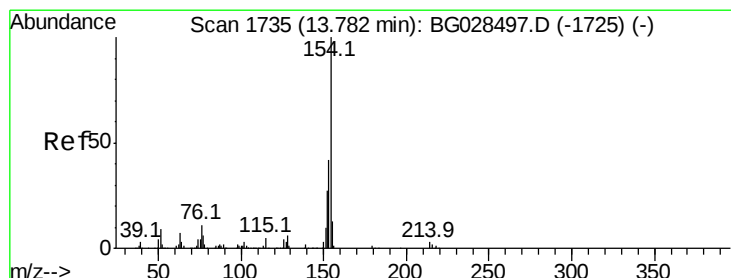
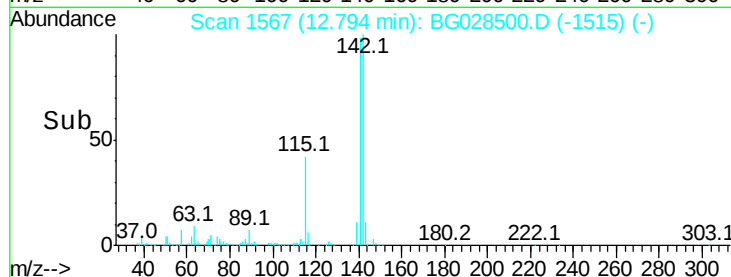
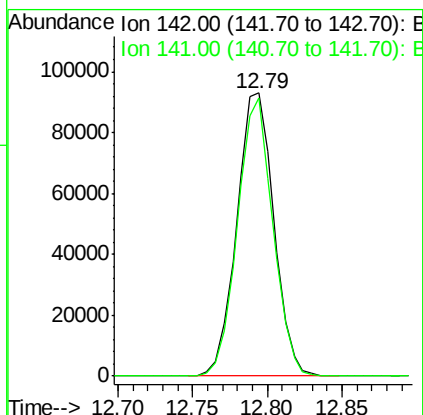
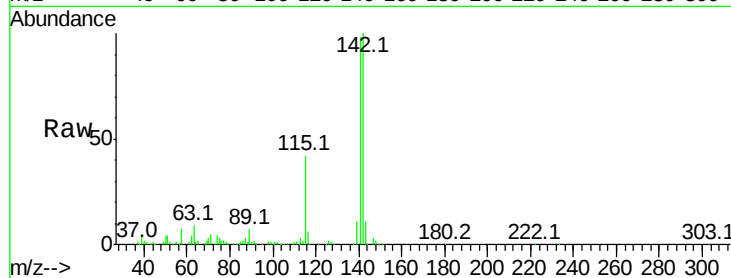




#34
 2-Methylnaphthalene
 Concen: 22.872 ng/ul
 RT: 12.79 min Scan# 1567
 Delta R.T. 0.01 min
 Lab File: BG028500.D
 Acq: 25 Aug 2017 21:01

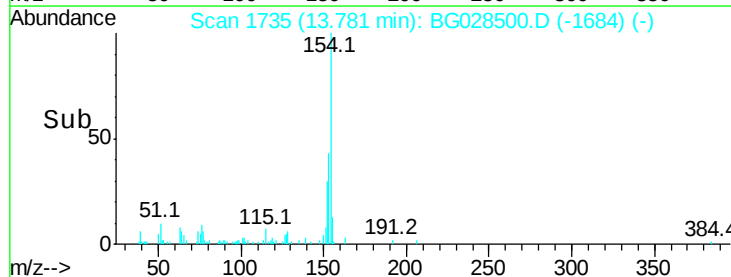
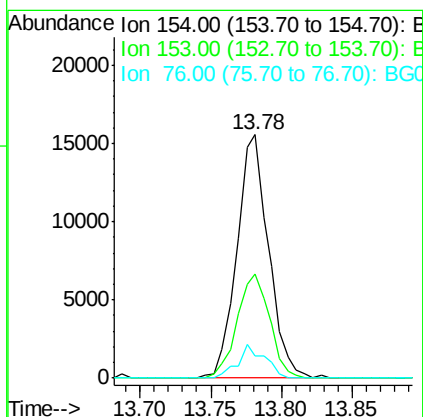
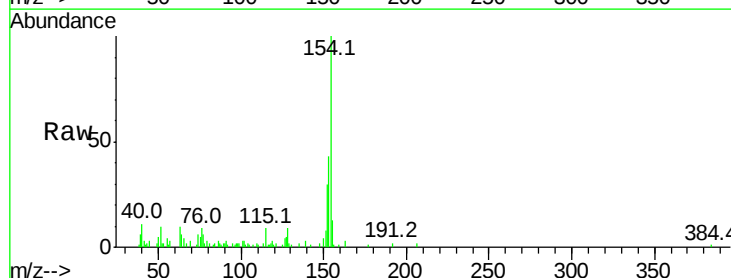
Instrument :
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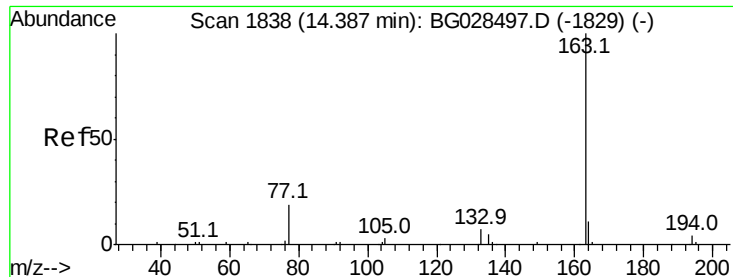
Tot Ion:142 Resp: 159683
 Ion Ratio Lower Upper
 142 100
 141 98.4 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 2.794 ng/ul
 RT: 13.78 min Scan# 1735
 Delta R.T. -0.00 min
 Lab File: BG028500.D
 Acq: 25 Aug 2017 21:01

Tgt Ion:154 Resp: 24296
 Ion Ratio Lower Upper
 154 100
 153 43.0 32.2 48.2
 76 8.9 9.6 14.4#





#44

Dimethylphthalate

Concen: 22.189 ng/ul

RT: 14.39 min Scan# 1838

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

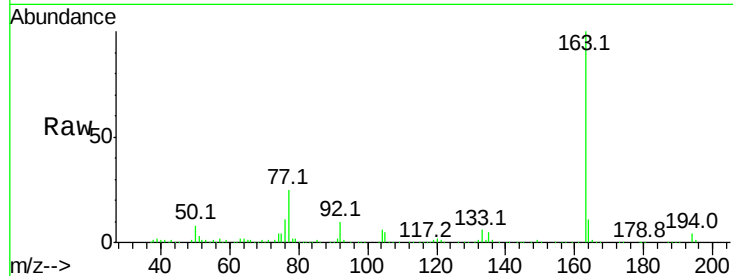
Tot Ion:163 Resp: 216371

Ion Ratio Lower Upper

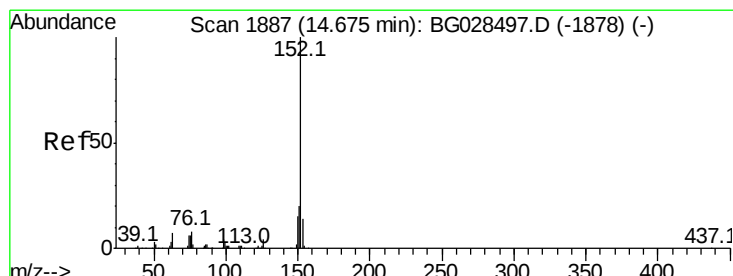
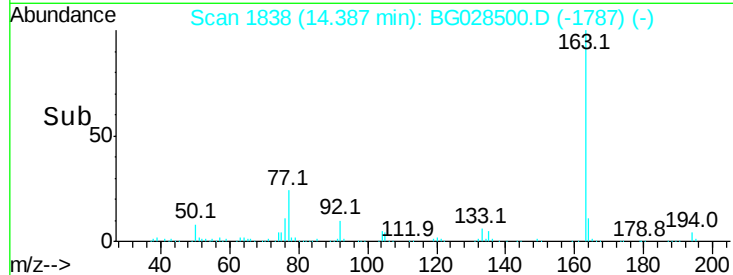
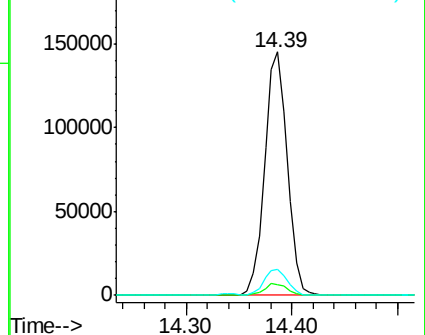
163 100

194 4.4 3.4 5.0

164 10.7 9.0 13.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 2.761 ng/ul

RT: 14.68 min Scan# 1888

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

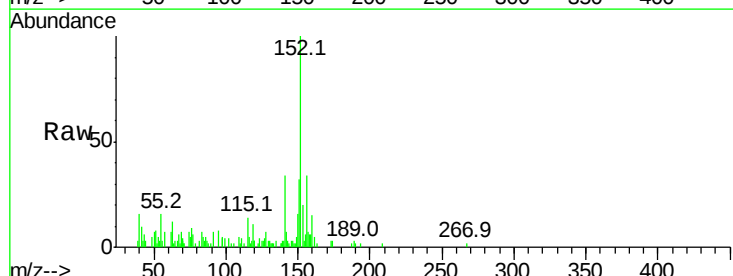
Tgt Ion:152 Resp: 31503

Ion Ratio Lower Upper

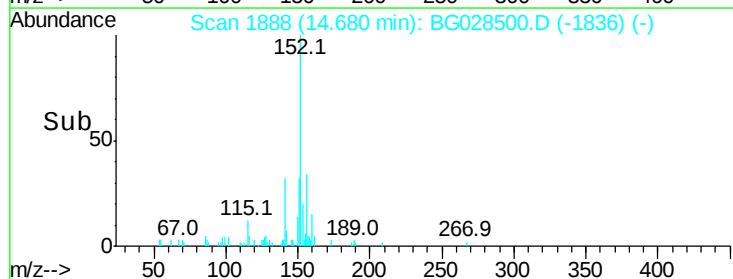
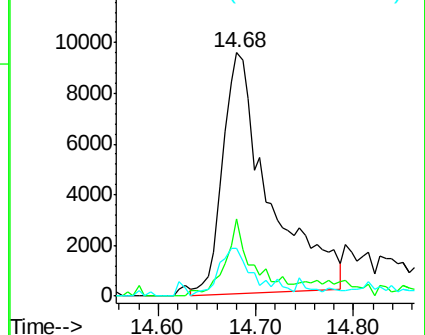
152 100

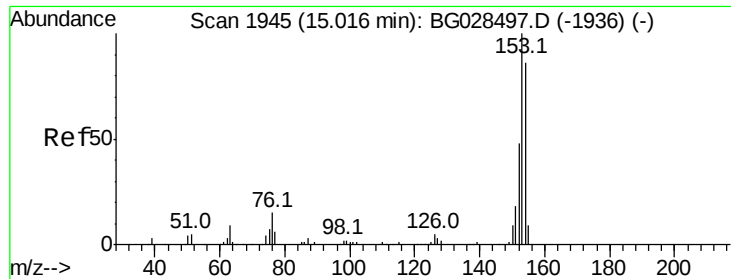
151 31.6 16.7 25.1#

153 19.8 11.4 17.2#



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





#49

Acenaphthene

Concen: 2.973 ng/ul

RT: 15.01 min Scan# 1944

Delta R.T. -0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

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ClientSampleId :

B0AS7

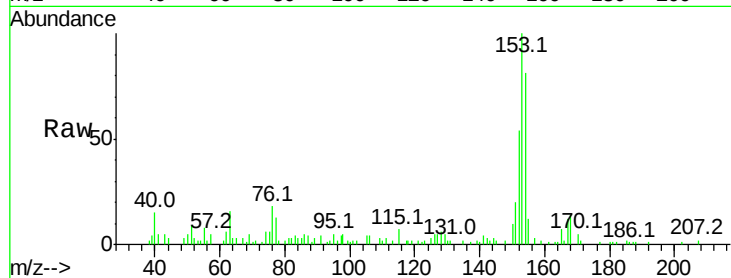
Tot Ion:153 Resp: 22887

Ion	Ratio	Lower	Upper
153	100		
152	54.1	36.5	54.7
154	80.8	72.3	108.5

153 100

152 54.1 36.5 54.7

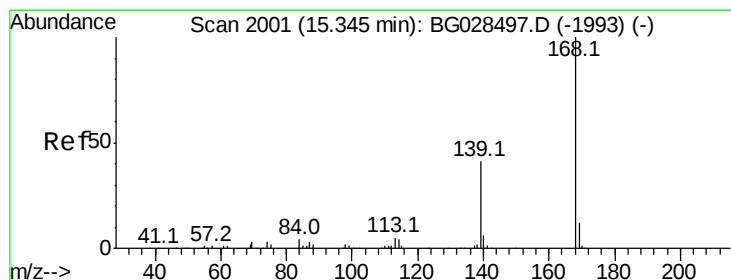
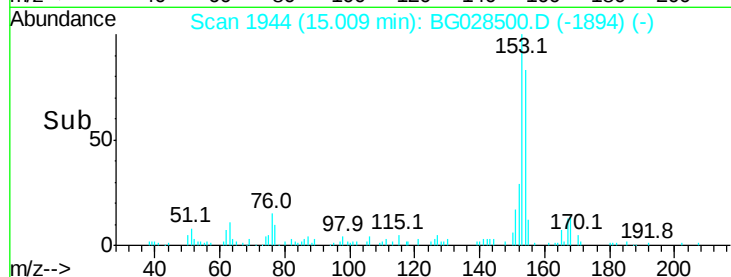
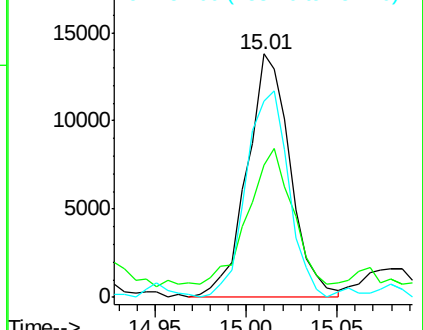
154 80.8 72.3 108.5



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 2.529 ng/ul

RT: 15.34 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BG028500.D

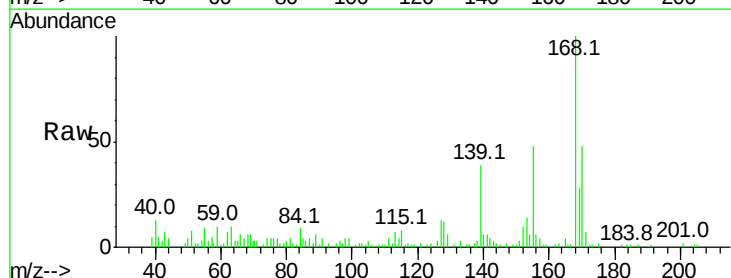
Acq: 25 Aug 2017 21:01

Tgt Ion:168 Resp: 28387

Ion	Ratio	Lower	Upper
168	100		
139	39.2	33.8	50.8

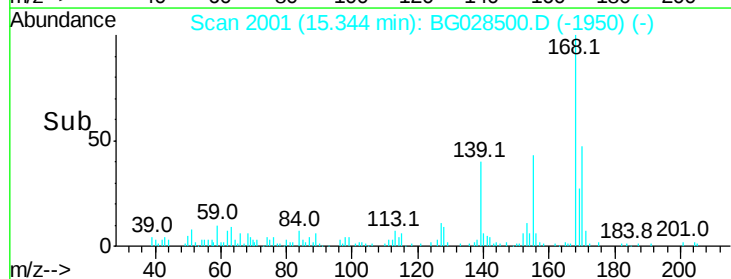
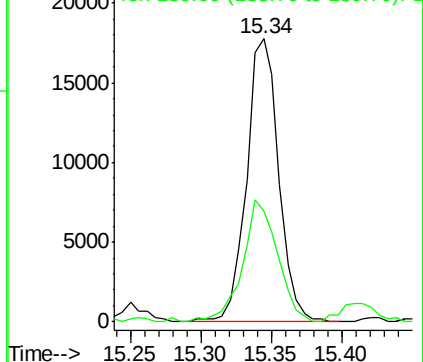
168 100

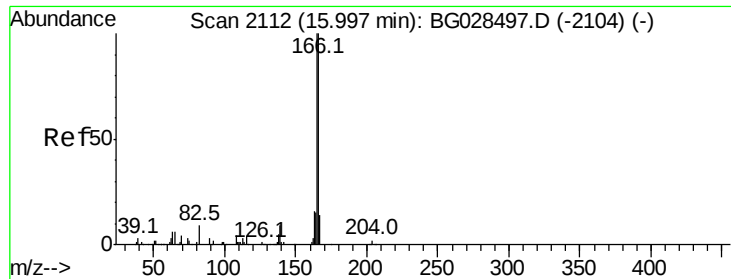
139 39.2 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 3.135 ng/ul

RT: 16.00 min Scan# 2112

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

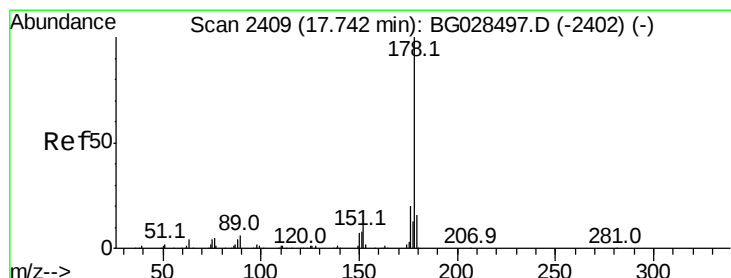
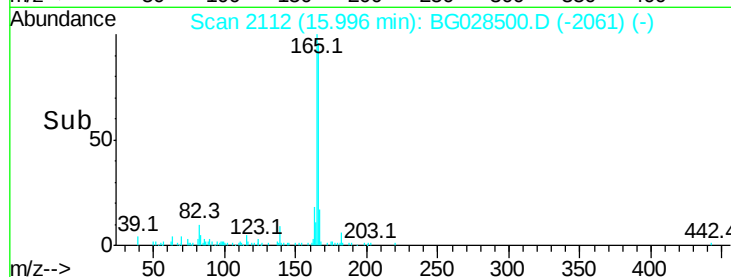
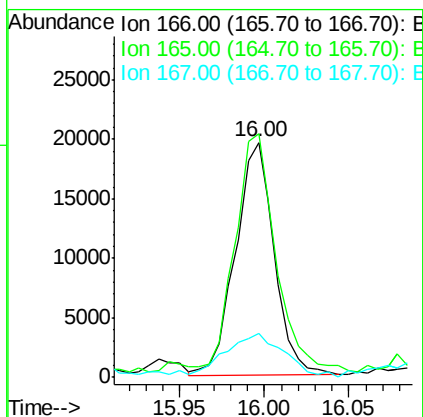
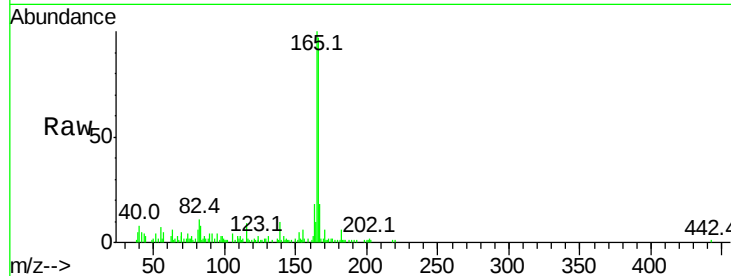
Tot Ion:166 Resp: 31152

Ion Ratio Lower Upper

166 100

165 103.6 79.7 119.5

167 18.4 11.4 17.2#



#69

Phenanthrene

Concen: 37.016 ng/ul

RT: 17.75 min Scan# 2410

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

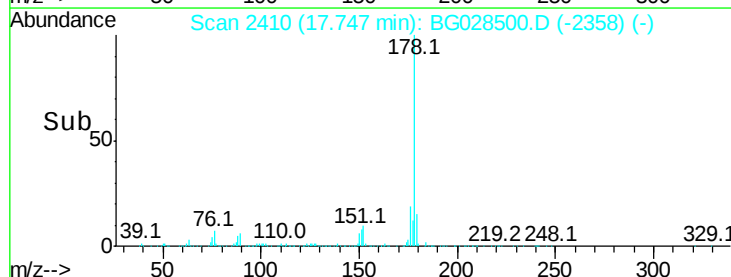
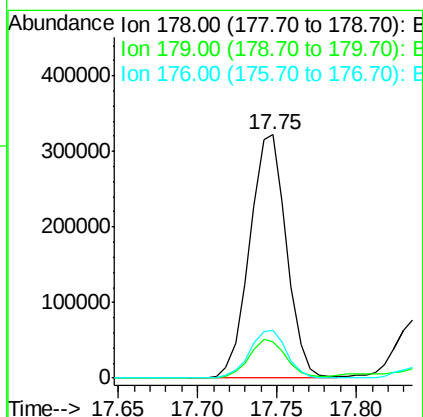
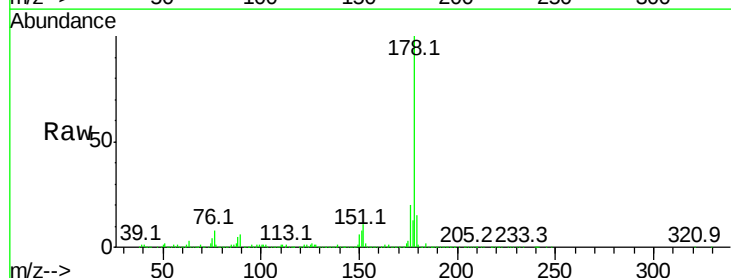
Tgt Ion:178 Resp: 517460

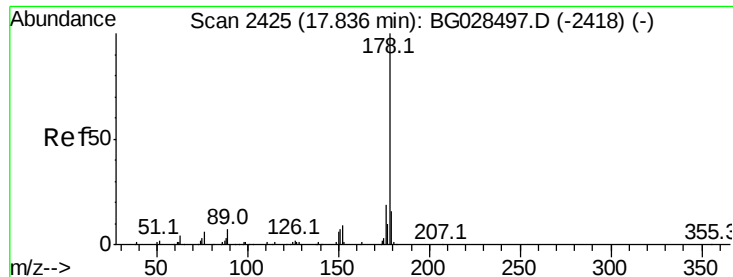
Ion Ratio Lower Upper

178 100

179 15.1 12.4 18.6

176 19.6 16.5 24.7





#71

Anthracene

Concen: 7.999 ng/ul

RT: 17.84 min Scan# 2425

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

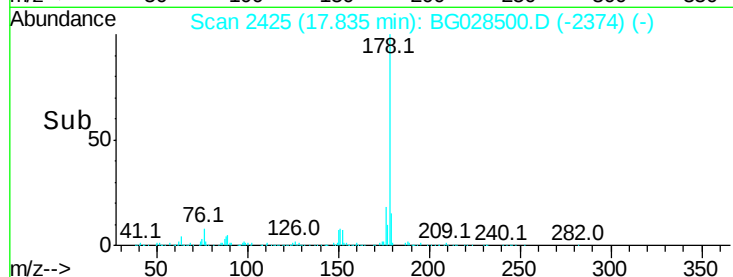
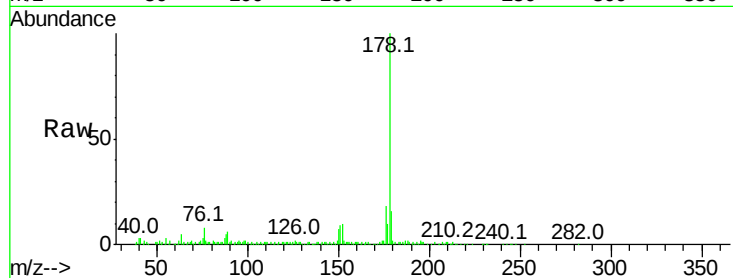
Tot Ion:178 Resp: 114280

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	19.0
176	18.3	15.9	23.9

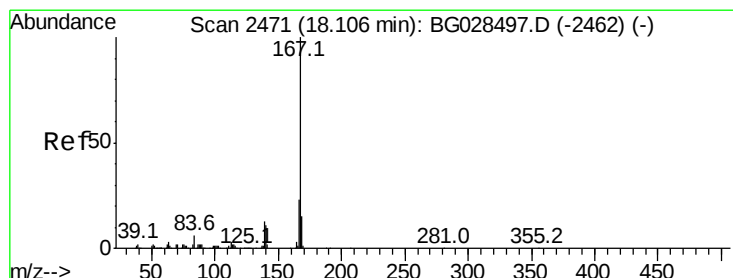
178 100

179 15.7 12.6 19.0

176 18.3 15.9 23.9



Time--> 17.75 17.80 17.85



#72

Carbazole

Concen: 5.082 ng/ul

RT: 18.11 min Scan# 2471

Delta R.T. -0.00 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

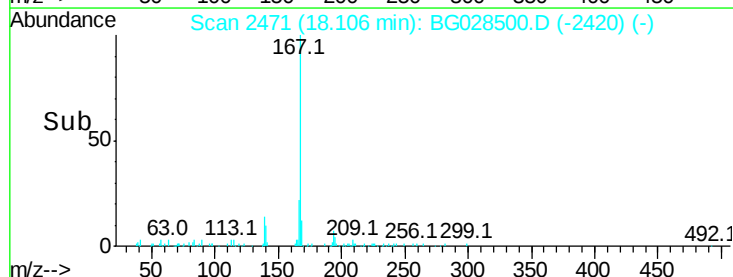
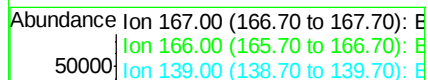
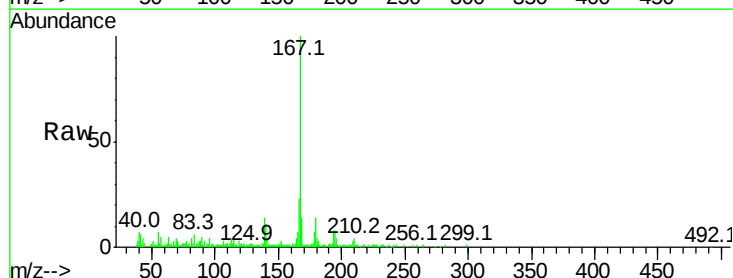
Tgt Ion:167 Resp: 63144

Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.9	26.9
139	13.8	10.5	15.7

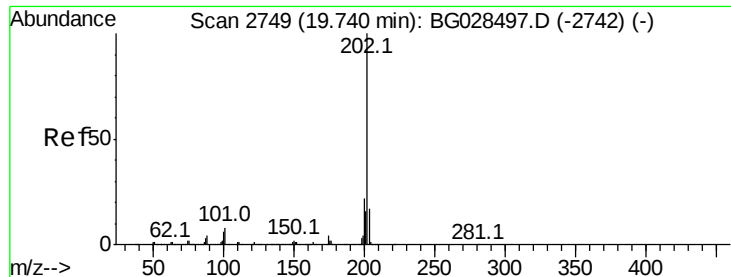
167 100

166 22.8 17.9 26.9

139 13.8 10.5 15.7



Time--> 18.00 18.10 18.20



#74

Fluoranthene

Concen: 73.106 ng/ul

RT: 19.74 min Scan# 2750

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

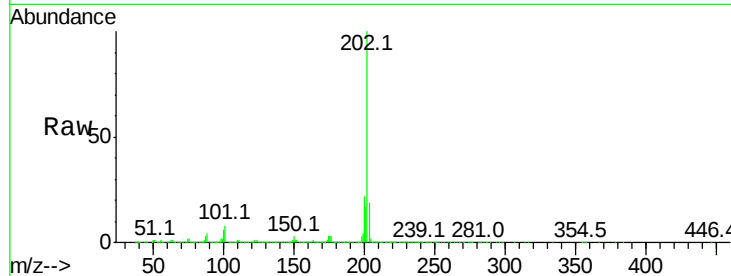
Tot Ion:202 Resp: 1242008

Ion Ratio Lower Upper

202 100

101 7.5 6.2 9.2

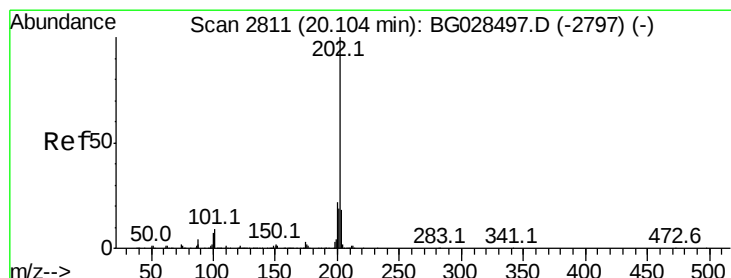
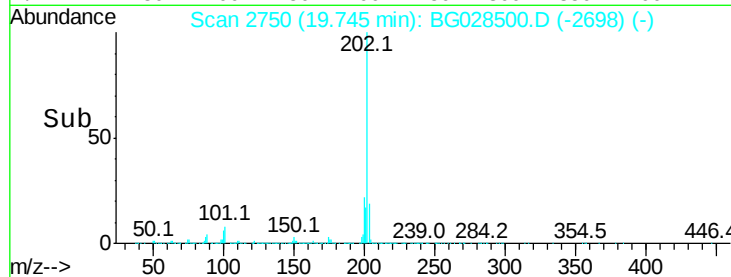
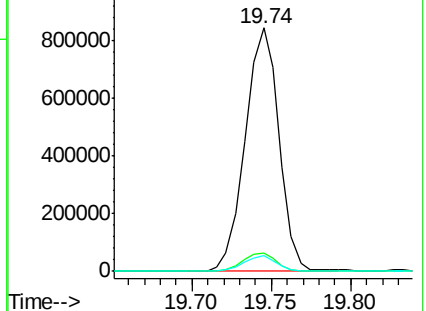
100 6.2 5.2 7.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 53.803 ng/ul

RT: 20.11 min Scan# 2812

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

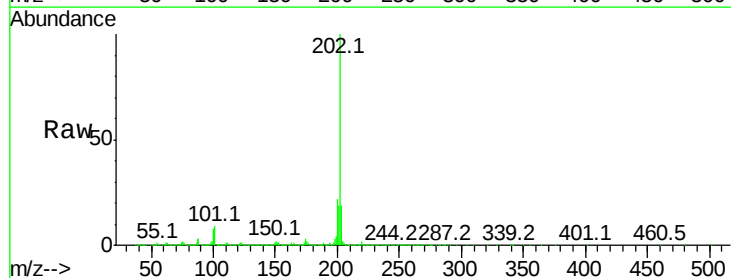
Tgt Ion:202 Resp: 1139599

Ion Ratio Lower Upper

202 100

101 8.9 6.9 10.3

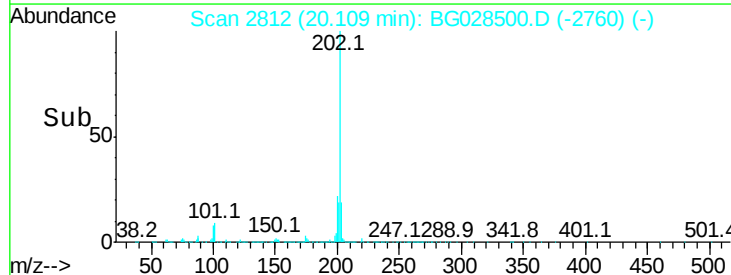
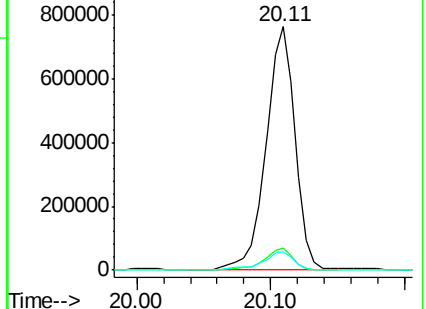
100 7.6 6.6 10.0

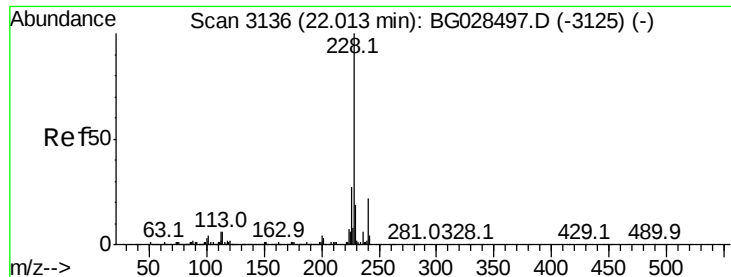


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 42.580 ng/ul

RT: 22.02 min Scan# 3137

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

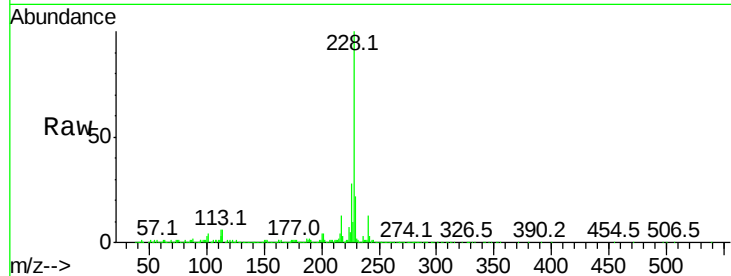
Tot Ion:228 Resp: 873428

Ion Ratio Lower Upper

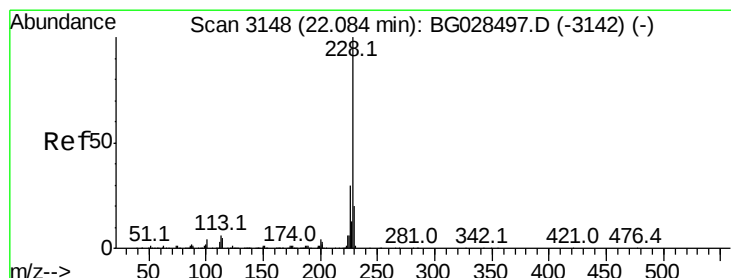
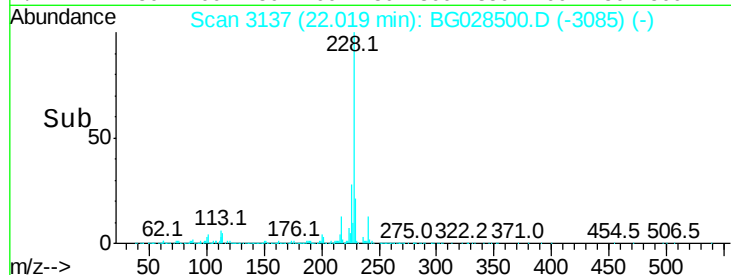
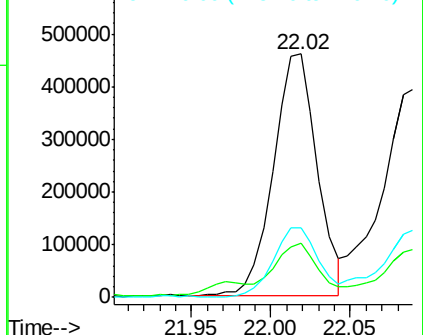
228 100

229 22.2 16.3 24.5

226 28.4 21.9 32.9



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 44.401 ng/ul

RT: 22.09 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

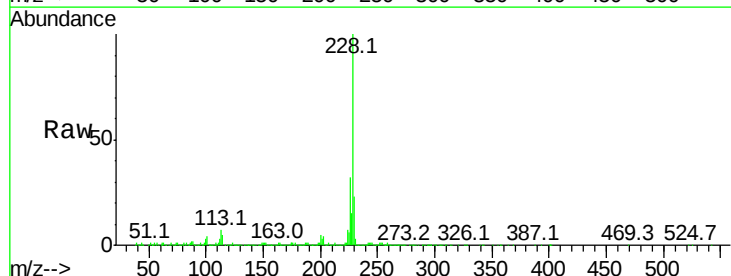
Tgt Ion:228 Resp: 820268

Ion Ratio Lower Upper

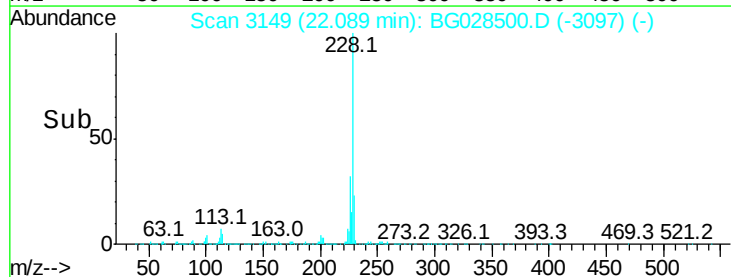
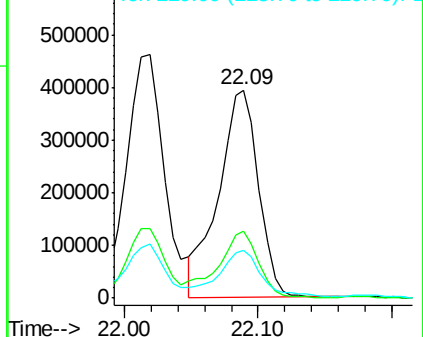
228 100

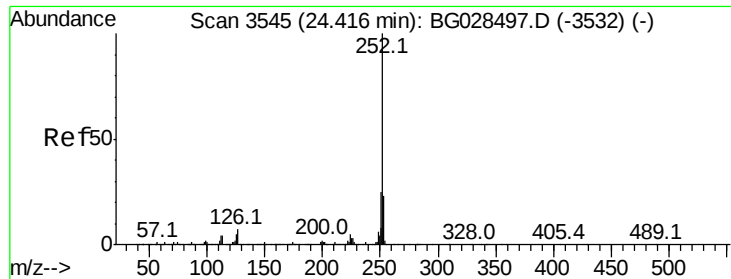
226 32.3 24.0 36.0

229 23.1 16.9 25.3



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

Benzo(b)fluoranthene

Concen: 18.838 ng/ul

RT: 24.49 min Scan# 3558

Delta R.T. 0.08 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

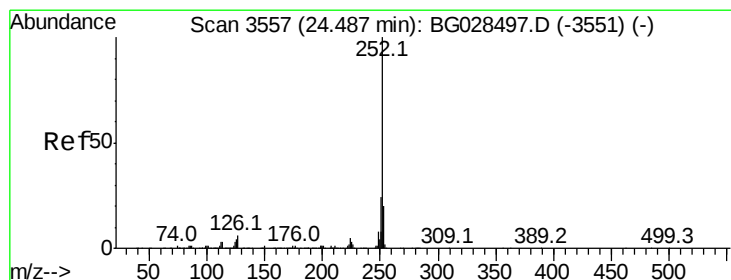
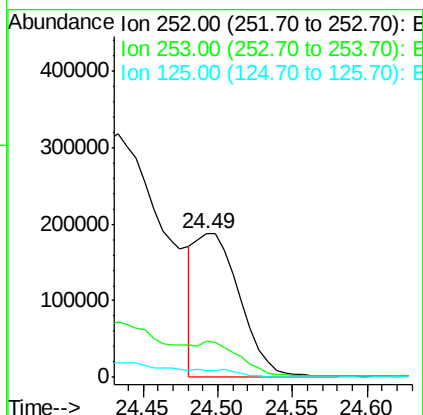
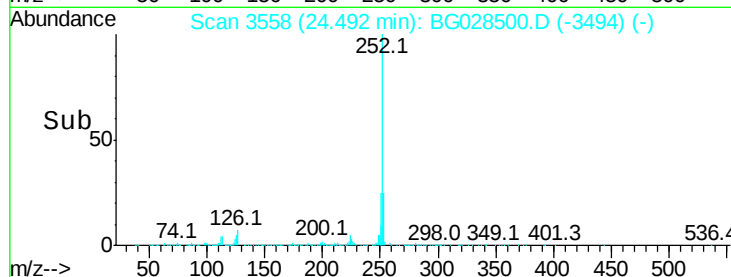
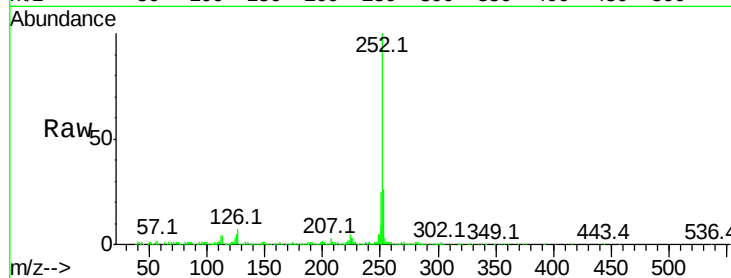
Tot Ion:252 Resp: 382640

Ion Ratio Lower Upper

252 100

253 25.5 17.7 26.5

125 5.1 4.0 6.0



#86

Benzo(k)fluoranthene

Concen: 19.199 ng/ul

RT: 24.49 min Scan# 3558

Delta R.T. 0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

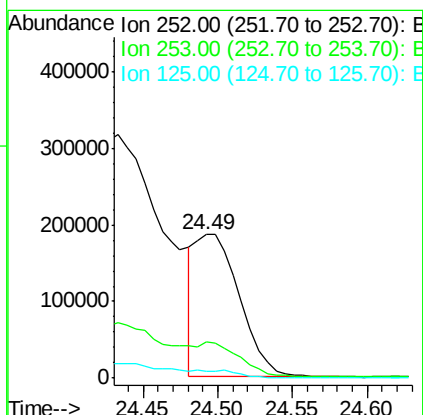
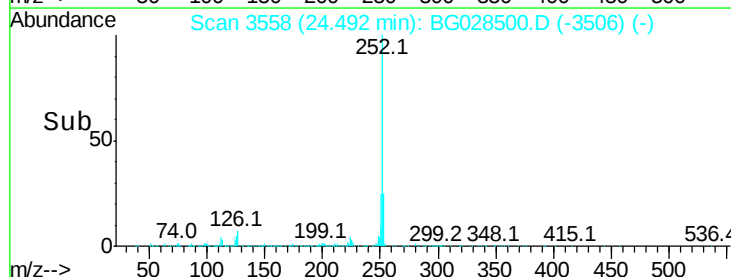
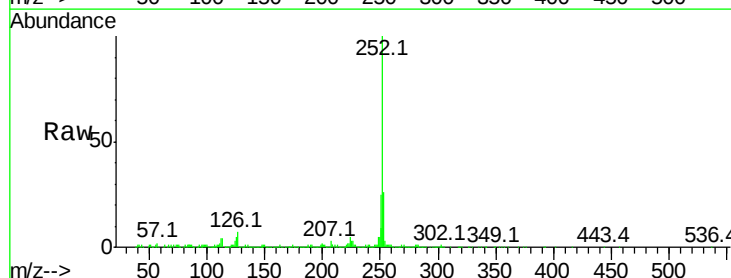
Tgt Ion:252 Resp: 380928

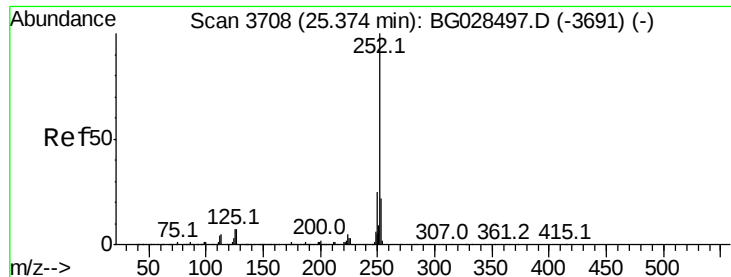
Ion Ratio Lower Upper

252 100

253 25.5 18.5 27.7

125 5.1 4.1 6.1





#88

Benzo(a)pyrene

Concen: 45.366 ng/ul

RT: 25.39 min Scan# 3711

Delta R.T. 0.02 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

BNA_G

ClientSampleId :

B0AS7

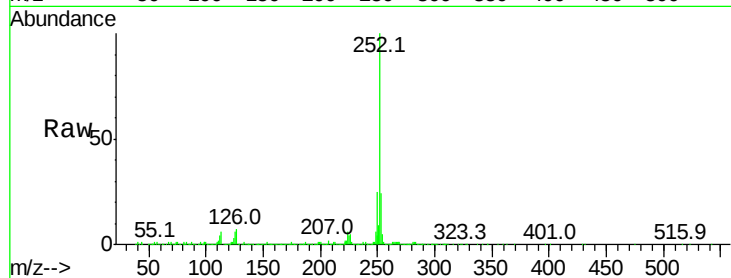
Tot Ion:252 Resp: 892222

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.6

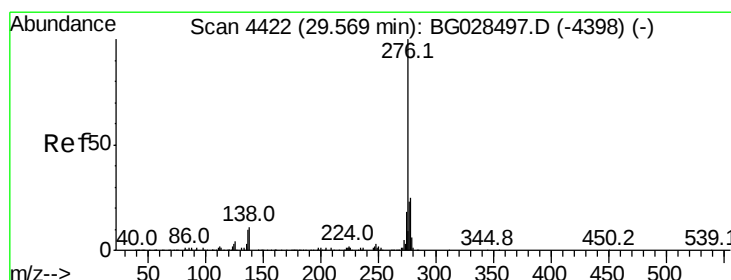
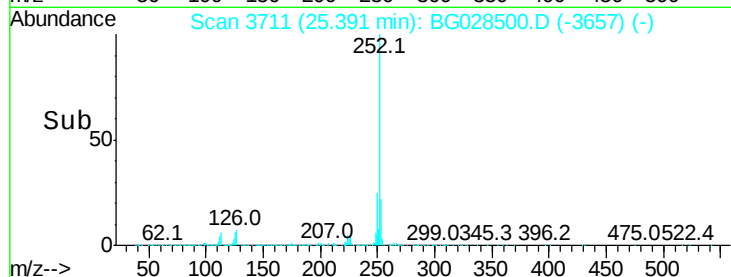
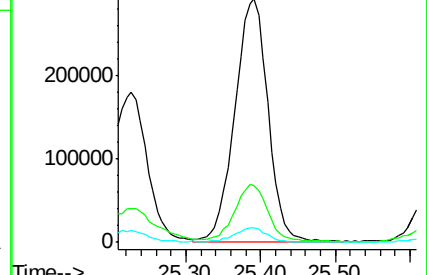
125 6.1 5.4 8.0



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 23.923 ng/ul

RT: 29.59 min Scan# 4425

Delta R.T. 0.02 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

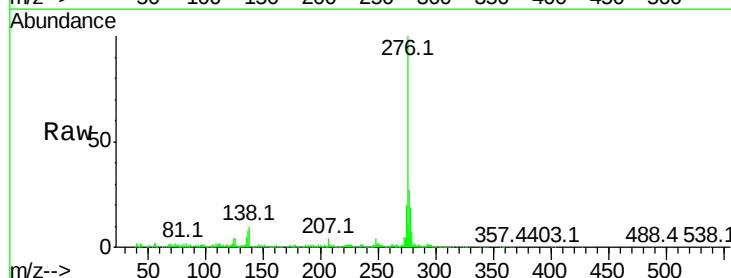
Tgt Ion:276 Resp: 550980

Ion Ratio Lower Upper

276 100

138 10.2 8.2 12.4

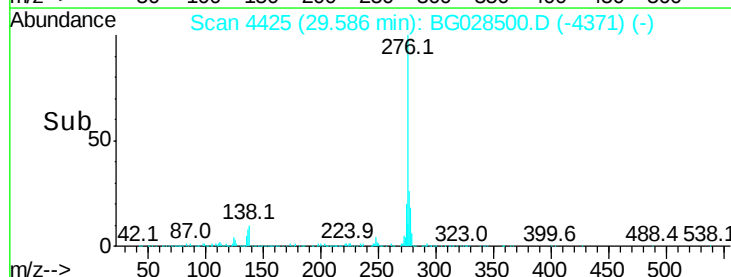
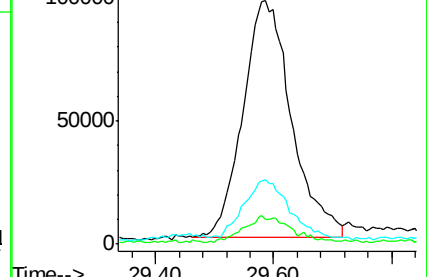
277 26.6 18.6 28.0

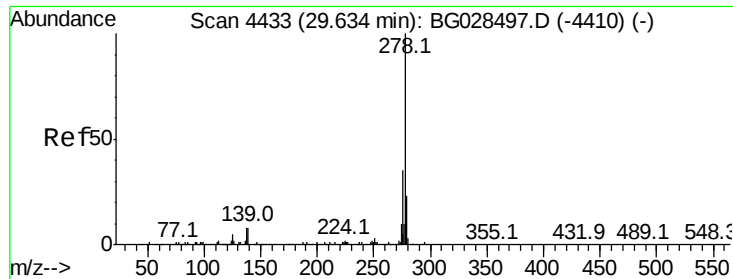


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 7.742 ng/ul

RT: 29.62 min Scan# 4431

Delta R.T. -0.01 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Instrument :

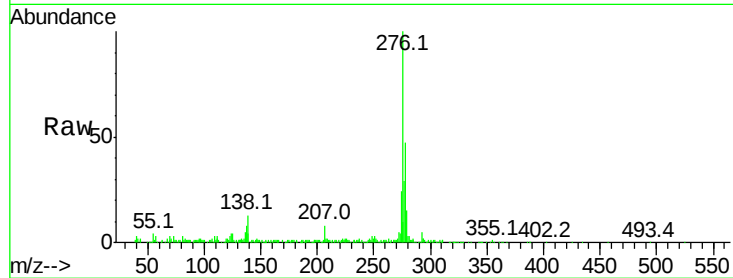
BNA_G

ClientSampleId :

B0AS7

Tot Ion:278 Resp: 149447

Ion	Ratio	Lower	Upper
278	100		
139	9.3	6.7	10.1
279	32.3	20.9	31.3#

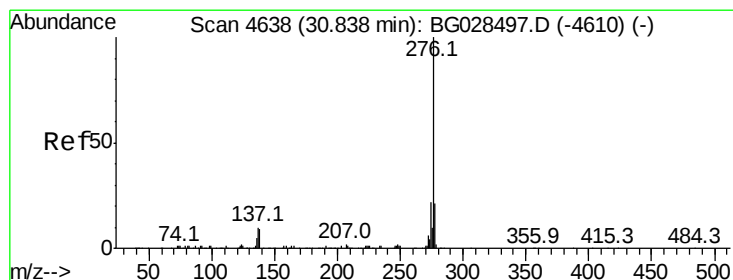
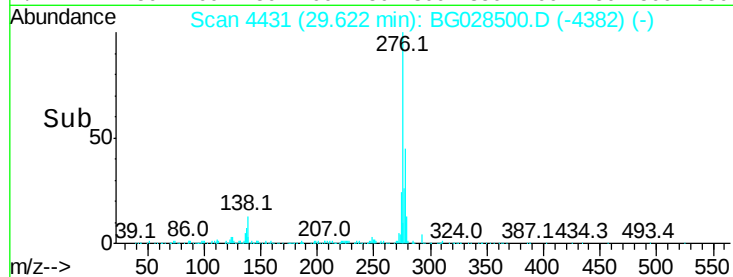
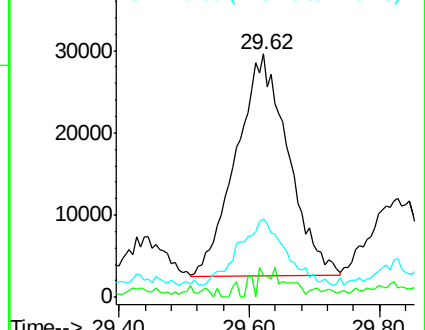


Abundance

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



#91

Benzo(g,h,i)perylene

Concen: 22.002 ng/ul

RT: 30.86 min Scan# 4641

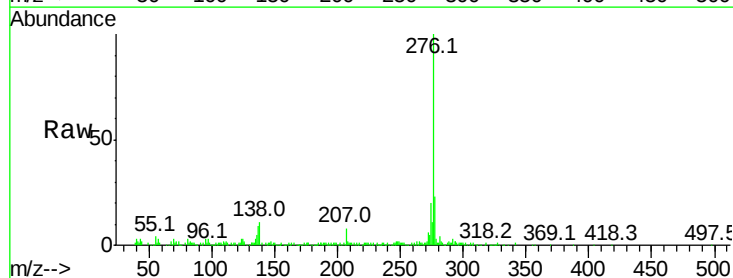
Delta R.T. 0.02 min

Lab File: BG028500.D

Acq: 25 Aug 2017 21:01

Tgt Ion:276 Resp: 416883

Ion	Ratio	Lower	Upper
276	100		
138	11.5	8.6	12.8
277	23.4	17.6	26.4



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

