

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121416\
 Data File : BG025196.D
 Acq On : 15 Dec 2016 4:10
 Operator : UM/SJ
 Sample : H5970-04MSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA843MSD

Quant Time: Dec 15 05:02:29 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 15 04:58:54 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	89562	20.00	ng/ul	0.00
18) Naphthalene-d8	11.06	136	393525	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	315881	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.60	188	613700	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	742993	20.00	ng/ul	0.00
83) Perylene-d12	25.32	264	767510	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.58	96	5296	3.05	ng/uL	0.00
5) Phenol-d5	7.39	99	138114	17.87	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.55	67	104432	21.85	ng/ul	0.00
9) 2-Chlorophenol-d4	7.76	132	106284	19.67	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	98299	15.22	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	60366	21.66	ng/ul	0.00
22) 2-Nitrophenol-d4	10.14	143	74857	21.55	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	141055	21.11	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	17312	2.64	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	489686	22.54	ng/ul	0.00
46) Acenaphthylene-d8	14.55	160	574215	24.13	ng/ul	0.00
51) 4-Nitrophenol-d4	15.07	143	33074	8.86	ng/ul	0.01
57) Fluorene-d10	15.85	176	441135	21.57	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	67613	17.82	ng/ul	0.00
70) Anthracene-d10	17.70	188	642392	24.80	ng/ul	0.00
76) Pyrene-d10	19.98	212	752905	24.60	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.08	264	770669	24.78	ng/ul	0.00

Target Compounds

					Qvalue
6) Phenol	7.42	94	185126	23.34 ng/ul	96
10) 2-Chlorophenol	7.80	128	111436	20.51 ng/ul	95
15) N-Nitroso-di-n-propylamine	9.04	70	128356	22.62 ng/ul#	92
28) Naphthalene	11.12	128	41109	2.25 ng/ul#	95
33) 4-Chloro-3-methylphenol	12.33	107	177841	22.24 ng/ul	94
34) 2-Methylnaphthalene	12.70	142	44474	3.08 ng/ul	94
44) Dimethylphthalate	14.30	163	195943	9.18 ng/ul#	94
49) Acenaphthene	14.92	153	388113	24.49 ng/ul	97
52) 4-Nitrophenol	15.08	109	54927	12.23 ng/ul	90
53) Dibenzofuran	15.25	168	38446	1.53 ng/ul	99
54) 2,4-Dinitrotoluene	15.22	165	154004	22.27 ng/ul	93
68) Pentachlorophenol	17.25	266	99480	21.23 ng/ul	94
69) Phenanthrene	17.64	178	244201	8.34 ng/ul	98
71) Anthracene	17.74	178	47098	1.56 ng/ul#	93
72) Carbazole	18.01	167	25634	1.02 ng/ul#	76
74) Fluoranthene	19.64	202	473197	13.60 ng/ul	98
77) Pyrene	20.01	202	1323118	37.04 ng/ul	99
80) Benzo(a)anthracene	21.88	228	352801	9.14 ng/ul	98
82) Chrysene	21.95	228	430459	11.92 ng/ul	99
85) Benzo(b)fluoranthene	24.23	252	711929	18.71 ng/ul#	94
86) Benzo(k)fluoranthene	24.23	252	247617	6.84 ng/ul#	96
88) Benzo(a)pyrene	25.16	252	453596	12.40 ng/ul	100
89) Indeno(1,2,3-cd)pyrene	29.27	276	377403	8.30 ng/ul	95

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Quant Title : SVOA CALIBRATION
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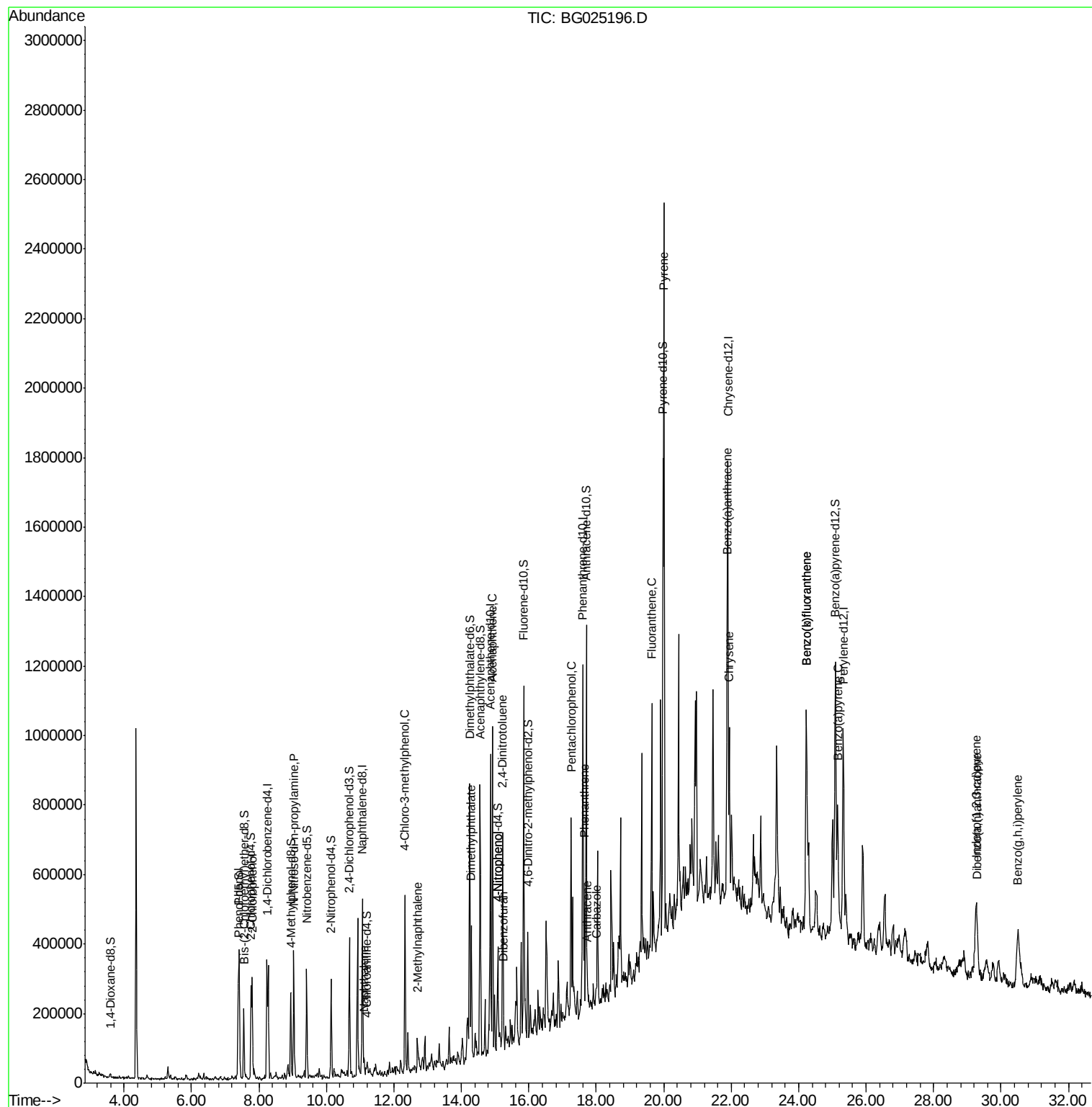
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	29.30	278	80206	2.09	ng/ul	97
91) Benzo(g,h,i)perylene	30.50	276	350788	9.24	ng/ul	97

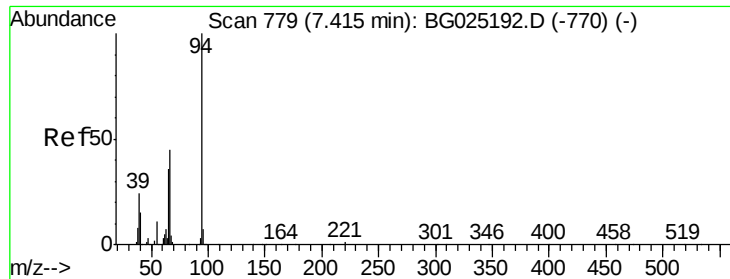
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 23.34 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

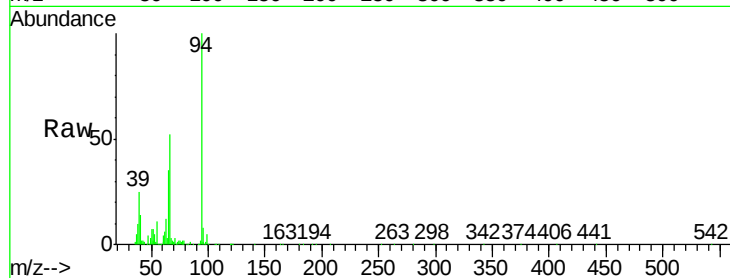
Tgt Ion: 94 Resp: 185126

Ion Ratio Lower Upper

94 100

65 35.3 26.8 40.2

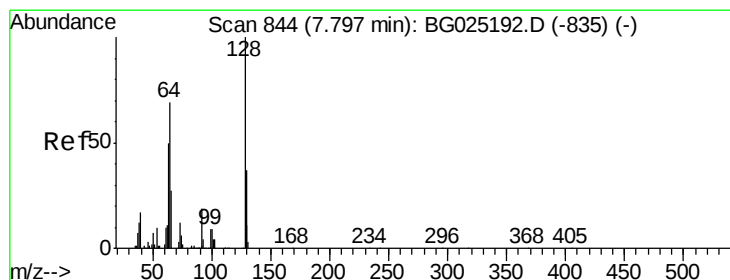
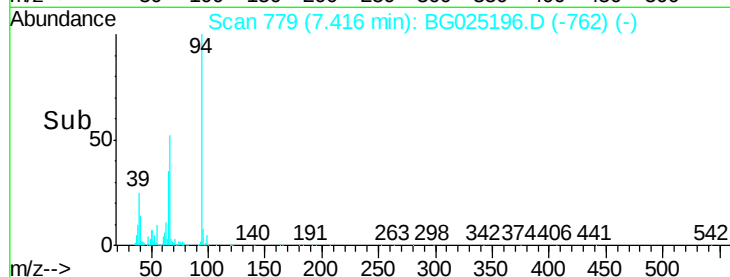
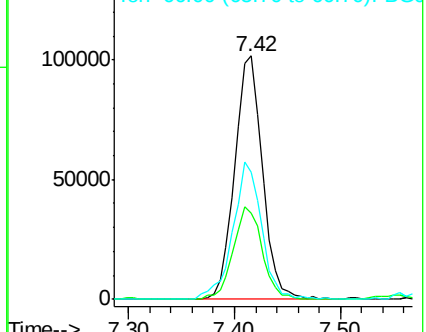
66 52.3 44.4 66.6



Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC



#10

2-Chlorophenol

Concen: 20.51 ng/ul

RT: 7.80 min Scan# 844

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

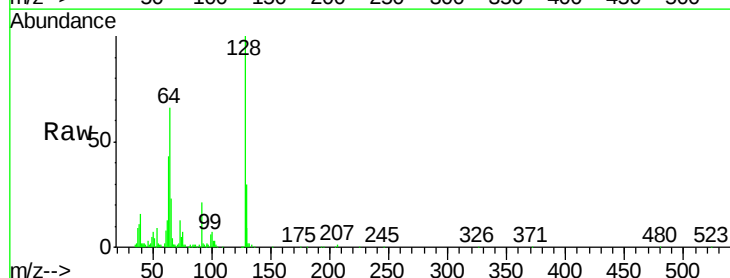
Tgt Ion: 128 Resp: 111436

Ion Ratio Lower Upper

128 100

64 66.4 56.3 84.5

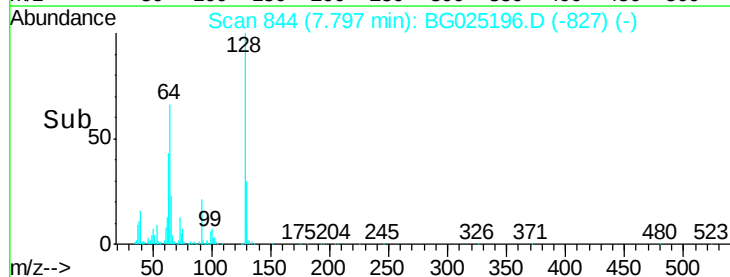
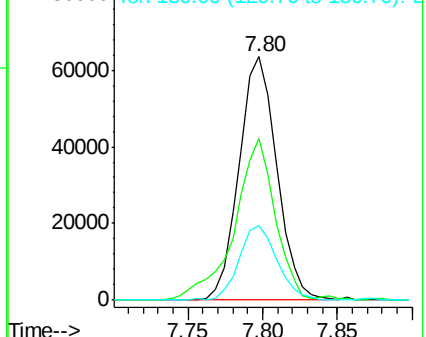
130 30.5 26.7 40.1

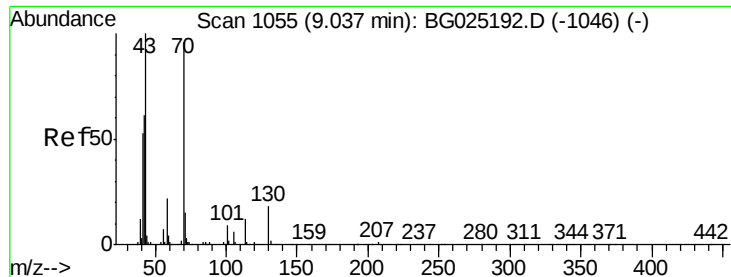


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 130.00 (129.70 to 130.70): E

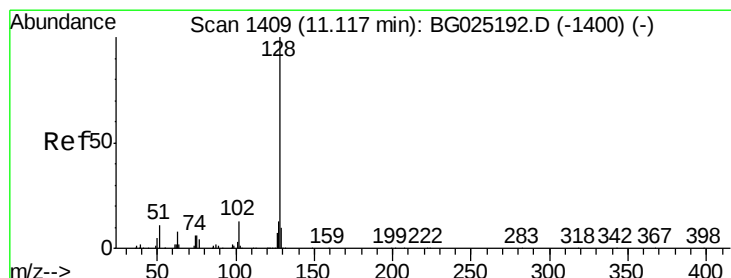
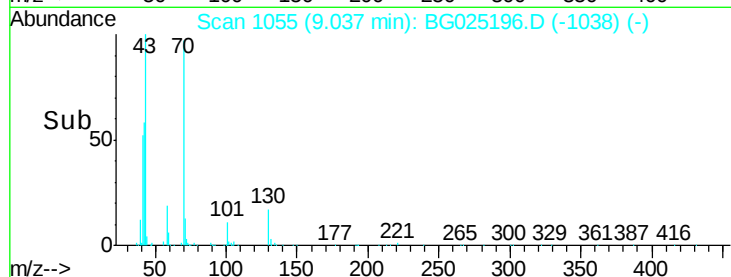
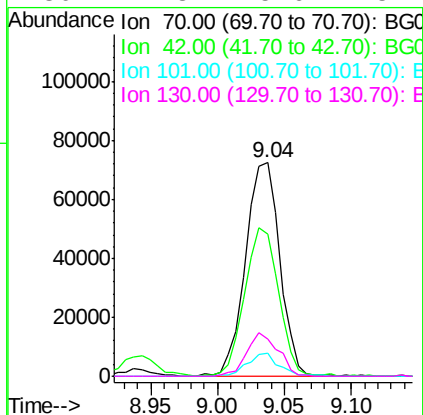
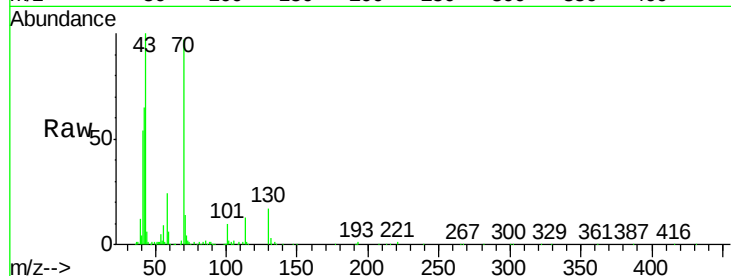




#15
N-Nitroso-di-n-propylamine
Concen: 22.62 ng/ul
RT: 9.04 min Scan# 1055
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

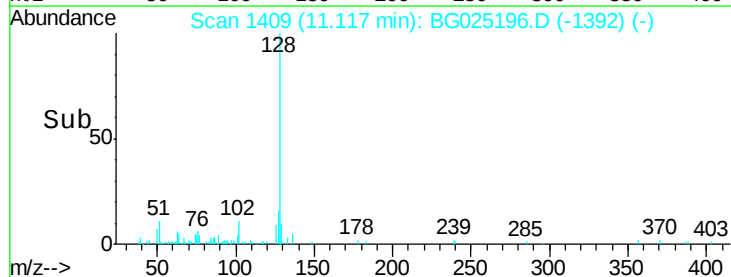
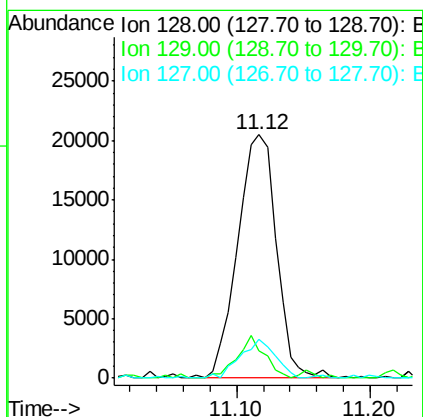
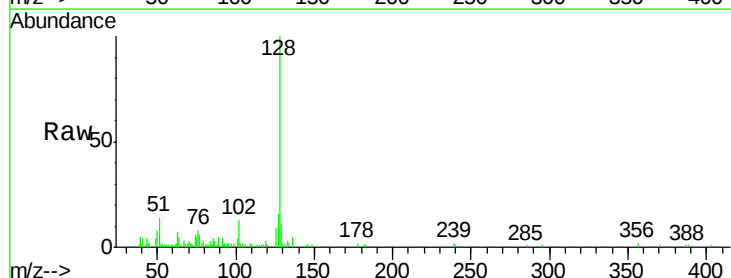
Instrument :
BNA_G
ClientSampleId :
DA843MSD

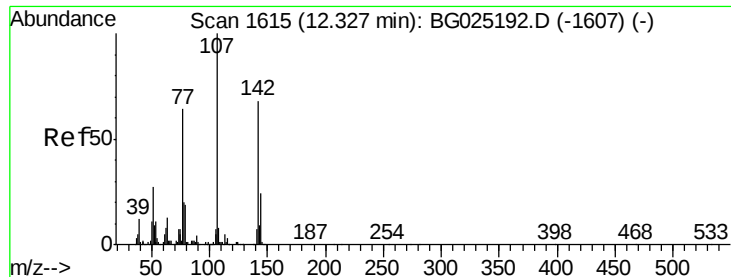
Tgt Ion: 70 Resp: 128356
Ion Ratio Lower Upper
70 100
42 66.4 59.0 88.6
101 10.5 6.6 9.8#
130 17.3 15.6 23.4



#28
Naphthalene
Concen: 2.25 ng/ul
RT: 11.12 min Scan# 1409
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion: 128 Resp: 41109
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.2
127 16.0 10.3 15.5#

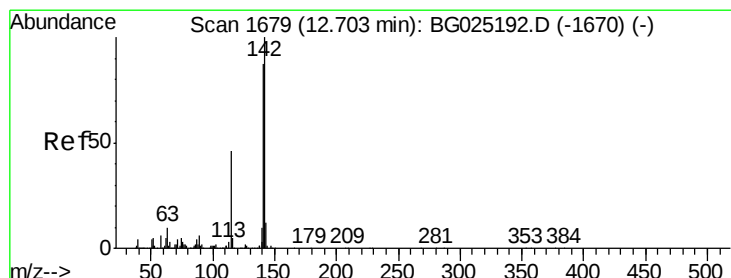
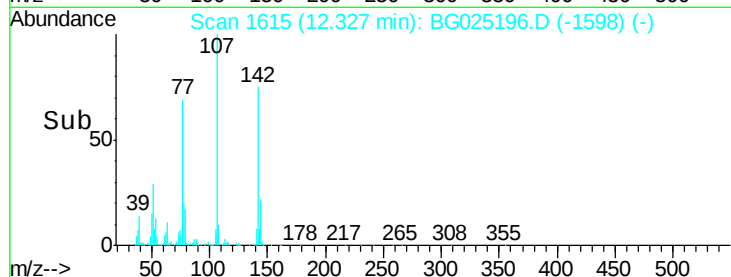
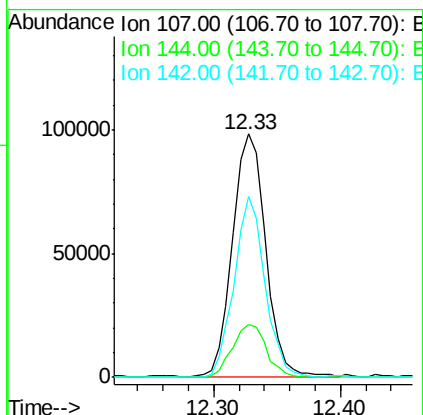
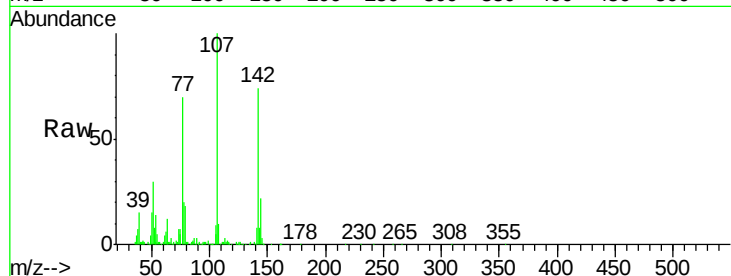




#33
 4-Chloro-3-methylphenol
 Concen: 22.24 ng/ul
 RT: 12.33 min Scan# 1615
 Delta R.T. 0.00 min
 Lab File: BG025196.D
 Acq: 15 Dec 2016 4:10

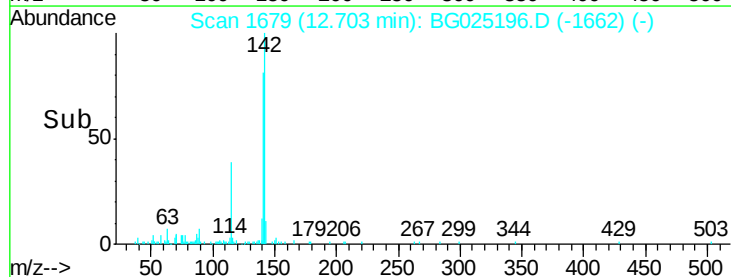
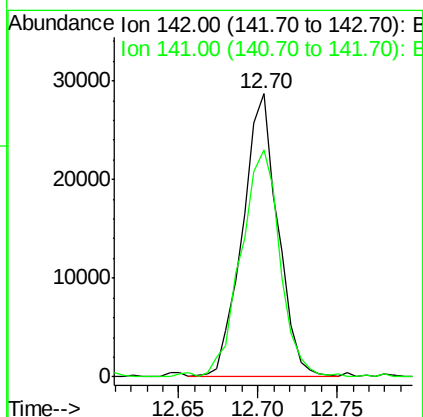
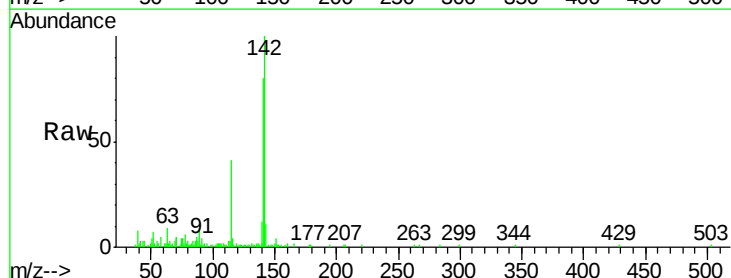
Instrument :
 BNA_G
 ClientSampleId :
 DA843MSD

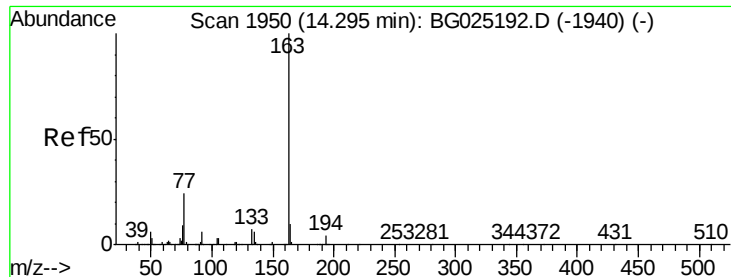
Tgt Ion:107 Resp: 177841
 Ion Ratio Lower Upper
 107 100
 144 21.5 18.2 27.4
 142 74.1 55.0 82.4



#34
 2-Methylnaphthalene
 Concen: 3.08 ng/ul
 RT: 12.70 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: BG025196.D
 Acq: 15 Dec 2016 4:10

Tgt Ion:142 Resp: 44474
 Ion Ratio Lower Upper
 142 100
 141 80.3 68.6 102.8

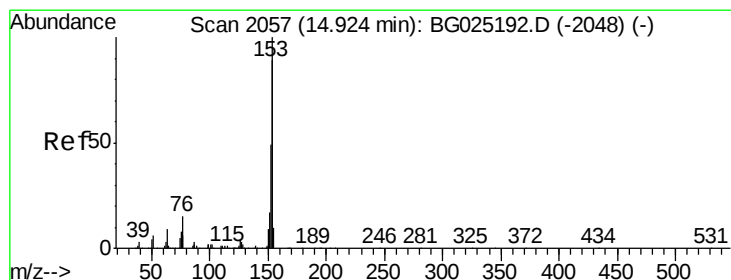
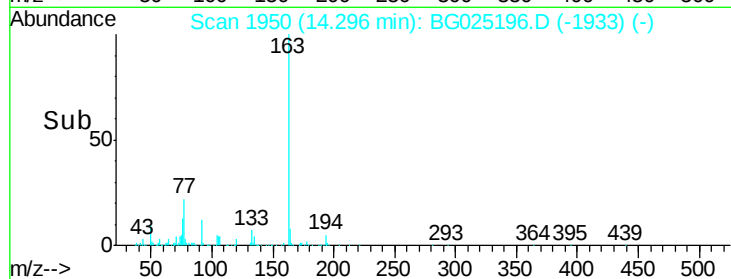
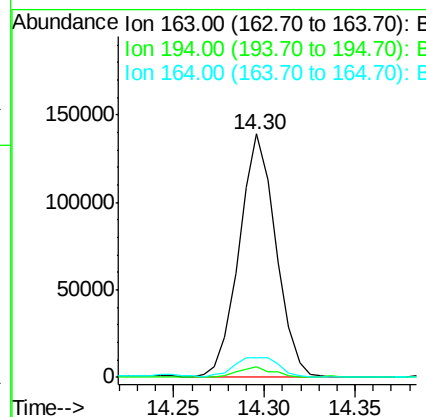
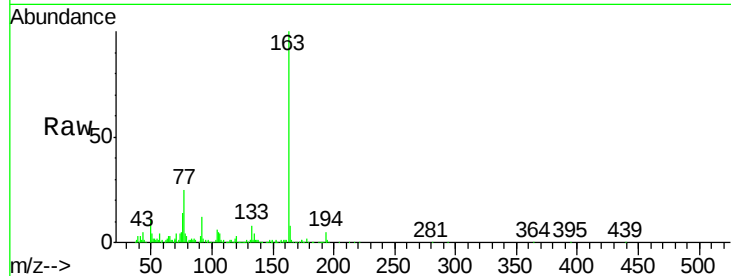




#44
Dimethylphthalate
Concen: 9.18 ng/ul
RT: 14.30 min Scan# 1950
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

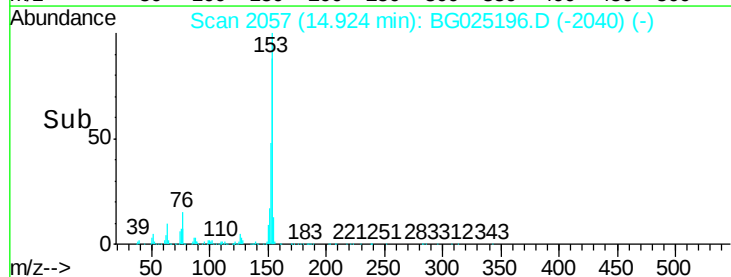
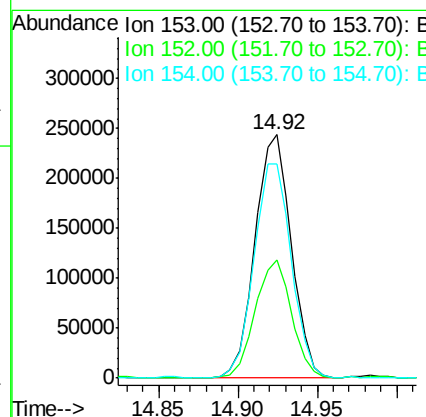
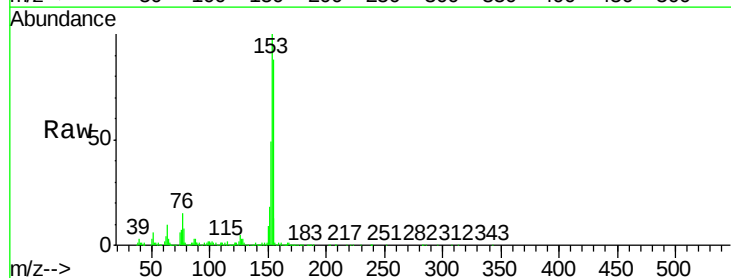
Instrument :
BNA_G
ClientSampleId :
DA843MSD

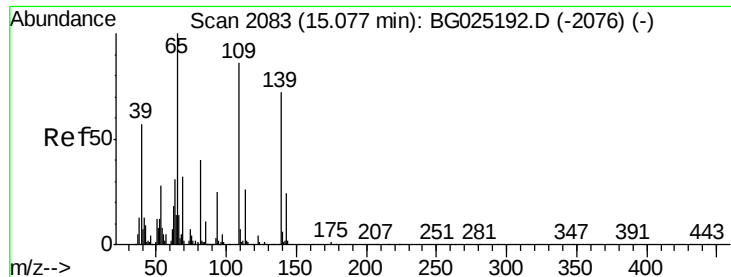
Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.4	5.0
164	8.3	9.0	13.4#



#49
Acenaphthene
Concen: 24.49 ng/ul
RT: 14.92 min Scan# 2057
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion	Ratio	Lower	Upper
153	100		
152	48.6	36.5	54.7
154	88.0	72.3	108.5





#52

4-Nitrophenol

Concen: 12.23 ng/ul

RT: 15.08 min Scan# 2084

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

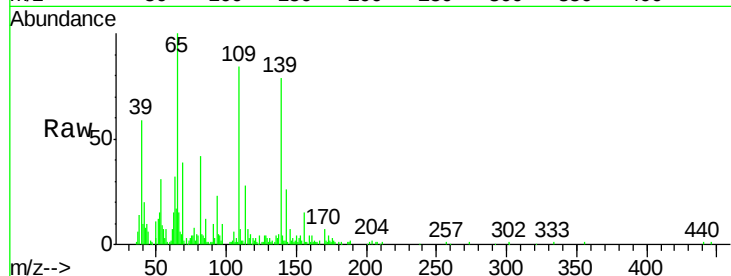
Tgt Ion:109 Resp: 54927

Ion Ratio Lower Upper

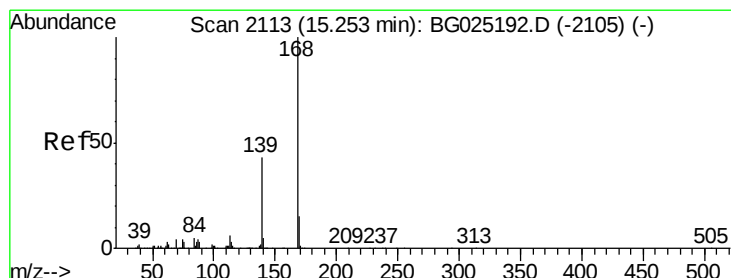
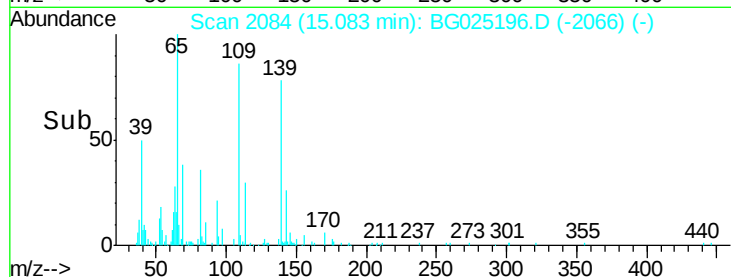
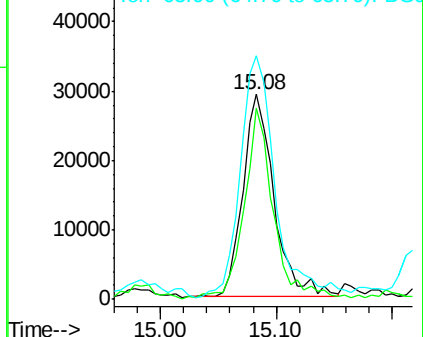
109 100

139 93.3 62.6 93.8

65 118.9 90.4 135.6



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B



#53

Dibenzofuran

Concen: 1.53 ng/ul

RT: 15.25 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BG025196.D

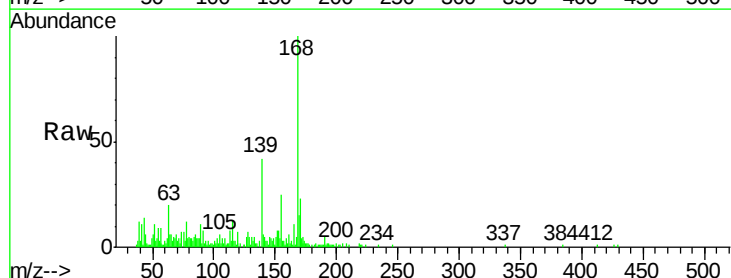
Acq: 15 Dec 2016 4:10

Tgt Ion:168 Resp: 38446

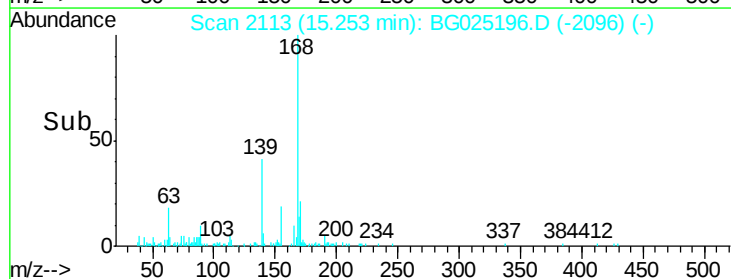
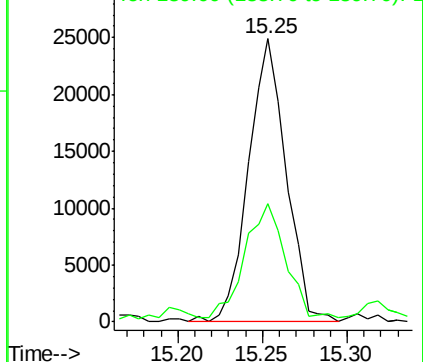
Ion Ratio Lower Upper

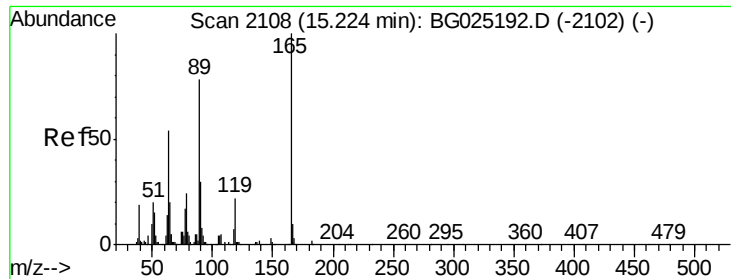
168 100

139 41.8 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E

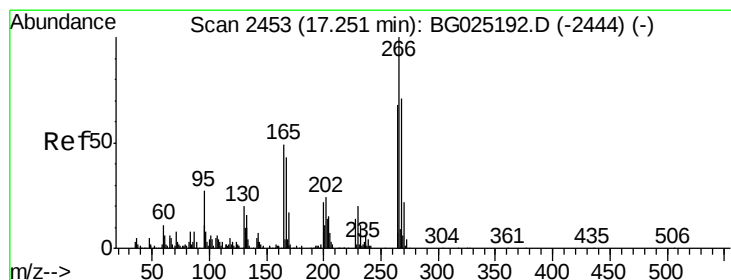
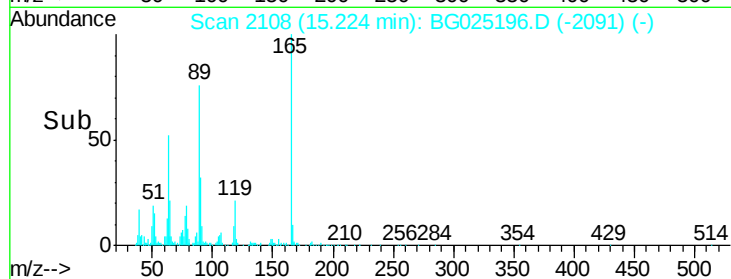
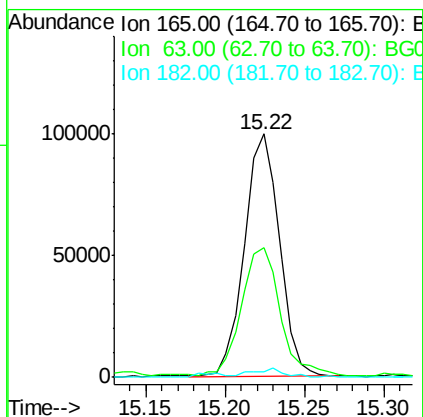
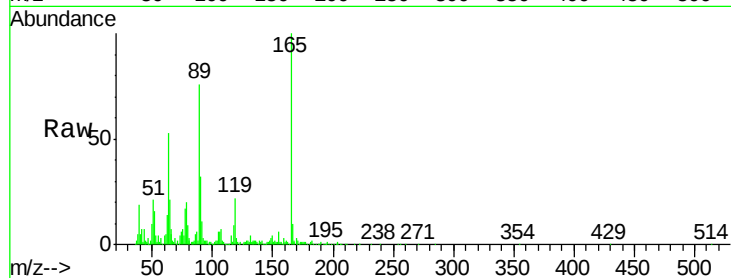




#54
2,4-Dinitrotoluene
Concen: 22.27 ng/ul
RT: 15.22 min Scan# 2108
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

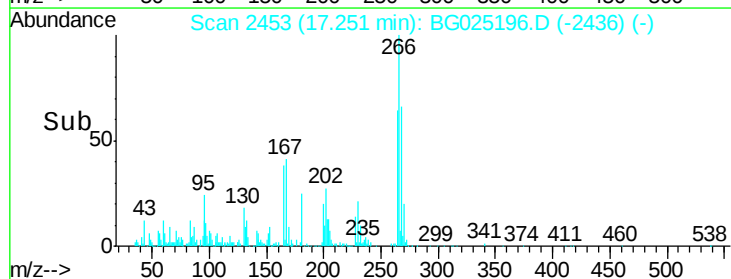
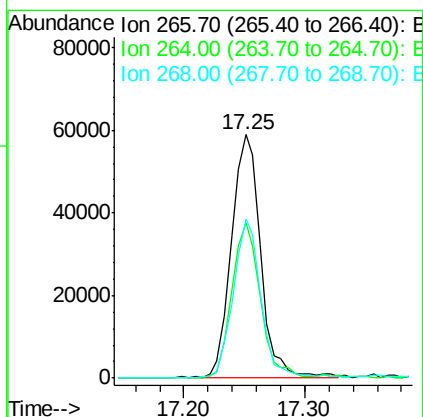
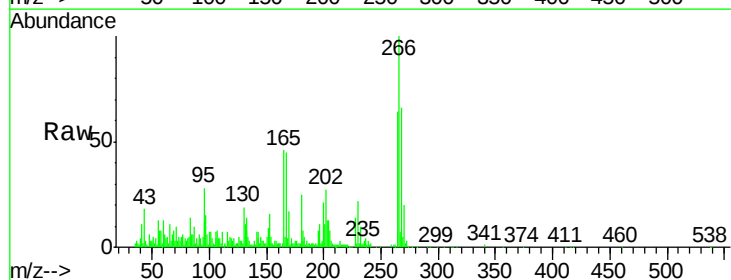
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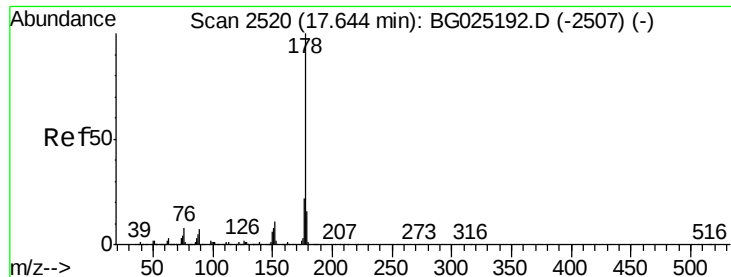
Tgt Ion:165 Resp: 154004
Ion Ratio Lower Upper
165 100
63 53.2 46.8 70.2
182 2.3 1.8 2.6



#68
Pentachlorophenol
Concen: 21.23 ng/ul
RT: 17.25 min Scan# 2453
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion:266 Resp: 99480
Ion Ratio Lower Upper
266 100
264 63.6 47.1 70.7
268 65.5 56.2 84.4





#69

Phenanthrene

Concen: 8.34 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

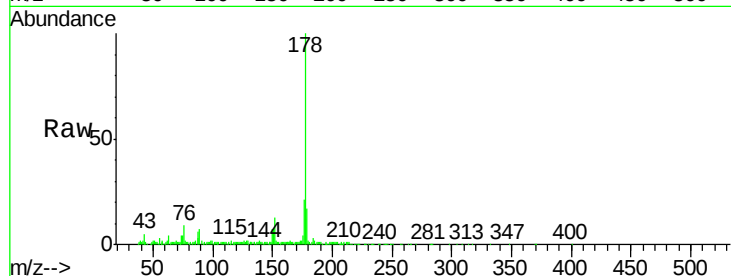
Tgt Ion:178 Resp: 244201

Ion Ratio Lower Upper

178 100

179 17.2 12.4 18.6

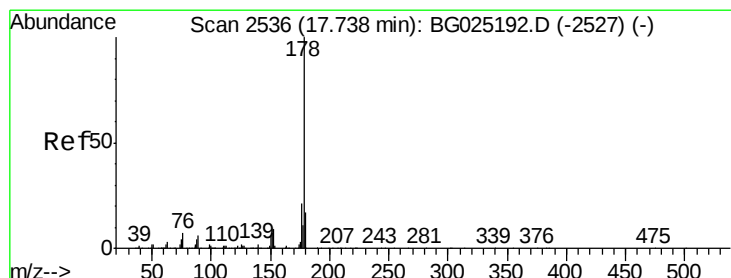
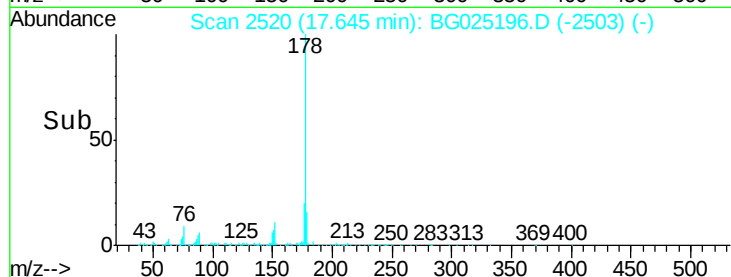
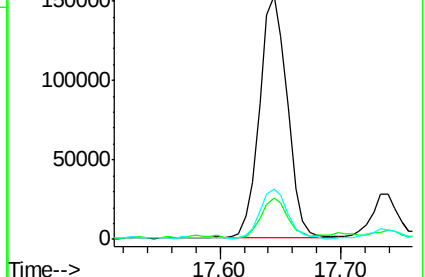
176 20.5 16.5 24.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 1.56 ng/ul

RT: 17.74 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

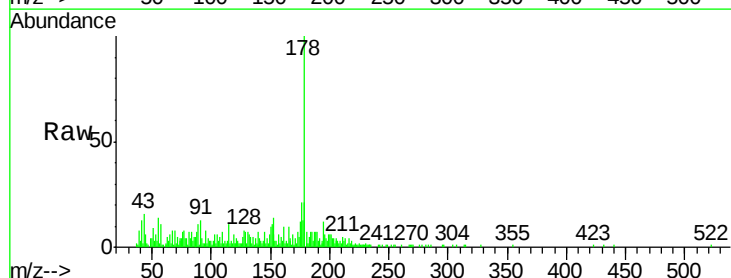
Tgt Ion:178 Resp: 47098

Ion Ratio Lower Upper

178 100

179 20.7 12.6 19.0#

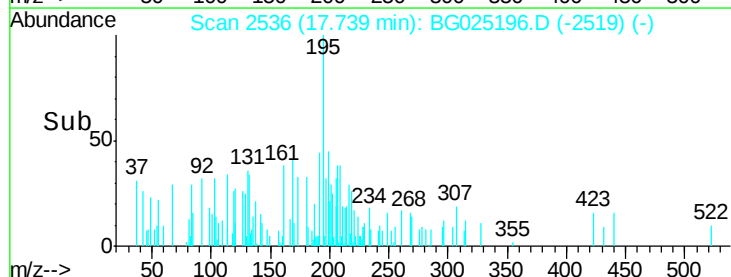
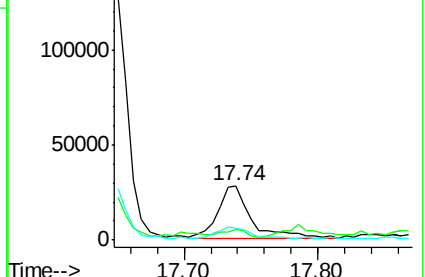
176 21.5 15.9 23.9

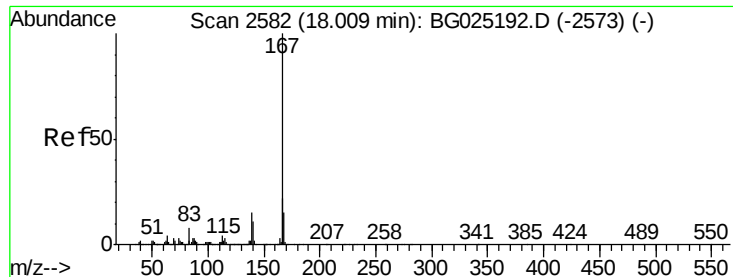


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.02 ng/ul

RT: 18.01 min Scan# 2582

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

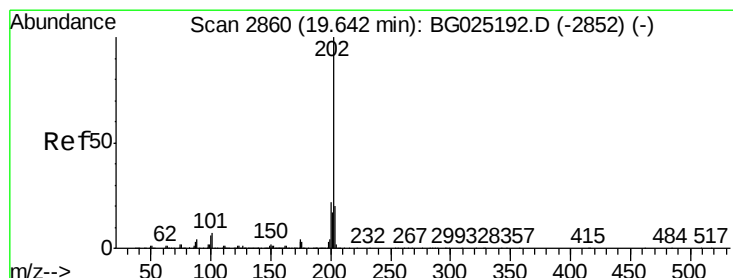
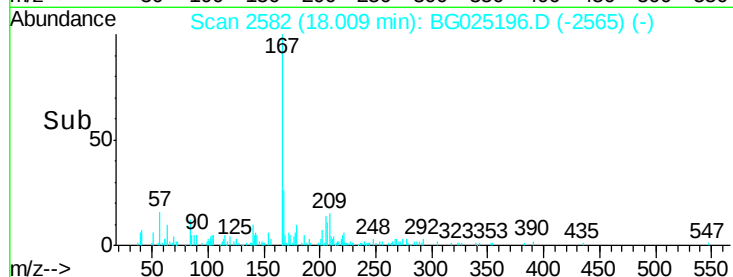
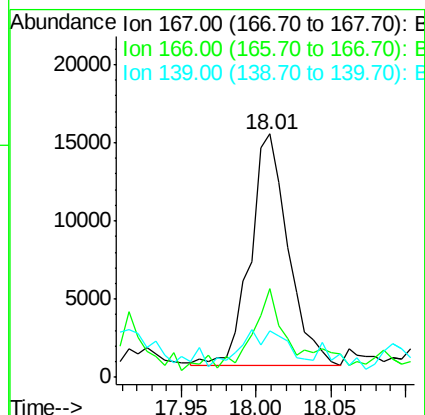
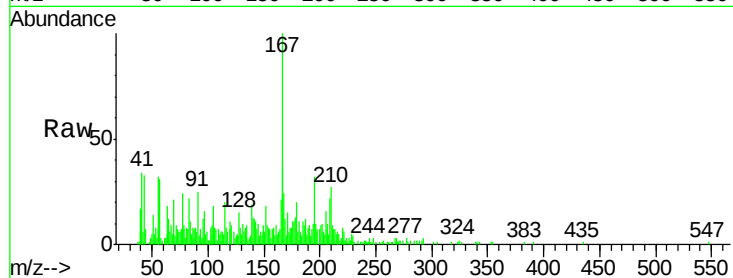
Tgt Ion:167 Resp: 25634

Ion Ratio Lower Upper

167 100

166 36.7 17.9 26.9#

139 19.1 10.5 15.7#



#74

Fluoranthene

Concen: 13.60 ng/ul

RT: 19.64 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

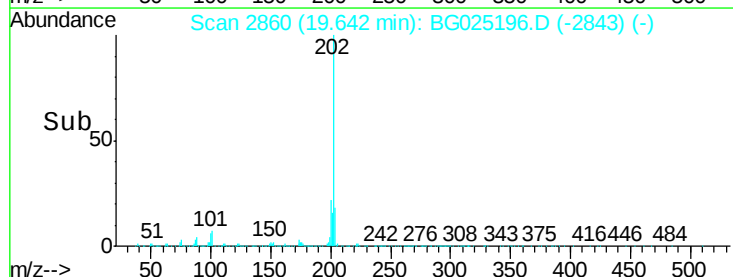
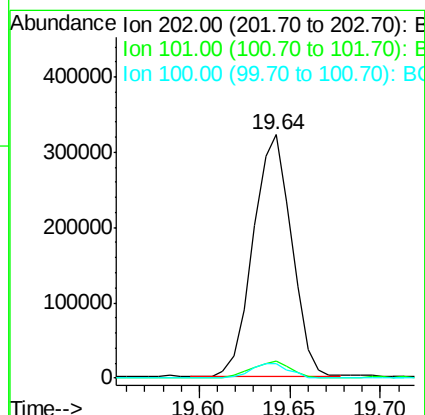
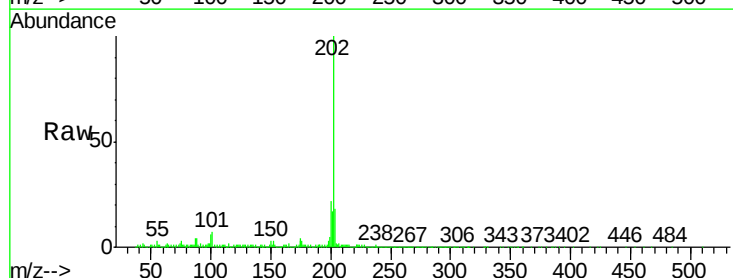
Tgt Ion:202 Resp: 473197

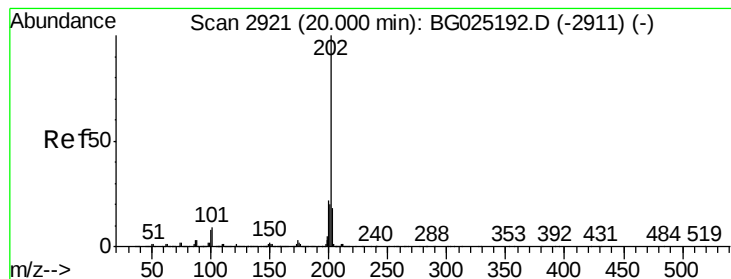
Ion Ratio Lower Upper

202 100

101 7.2 6.2 9.2

100 5.8 5.2 7.8





#77

Pyrene

Concen: 37.04 ng/ul

RT: 20.01 min Scan# 2922

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

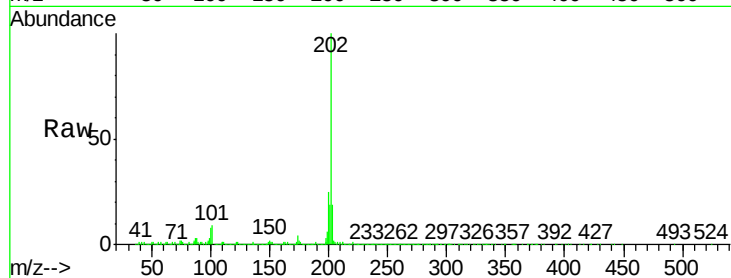
Tgt Ion:202 Resp: 1323118

Ion Ratio Lower Upper

202 100

101 8.6 6.9 10.3

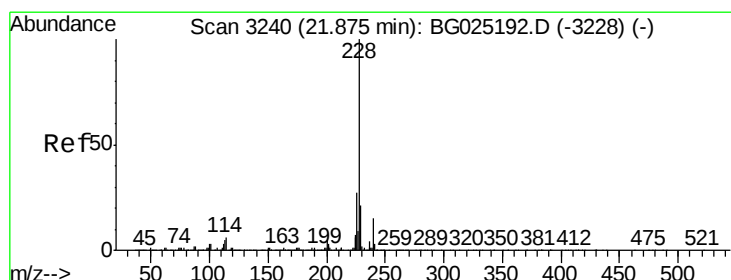
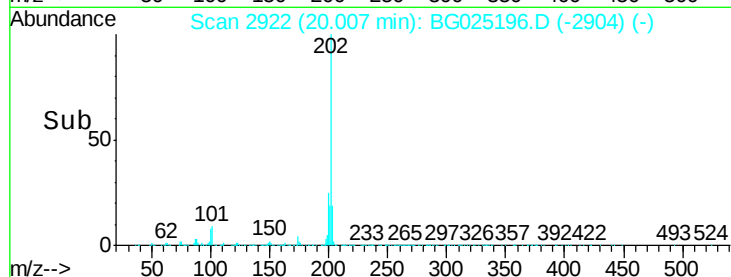
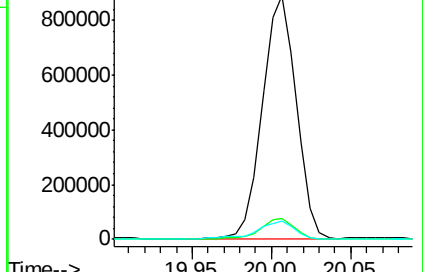
100 7.6 6.6 10.0



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): E



#80

Benzo(a)anthracene

Concen: 9.14 ng/ul

RT: 21.88 min Scan# 3240

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

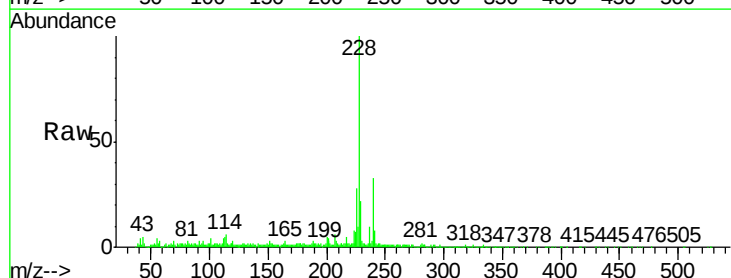
Tgt Ion:228 Resp: 352801

Ion Ratio Lower Upper

228 100

229 22.4 16.3 24.5

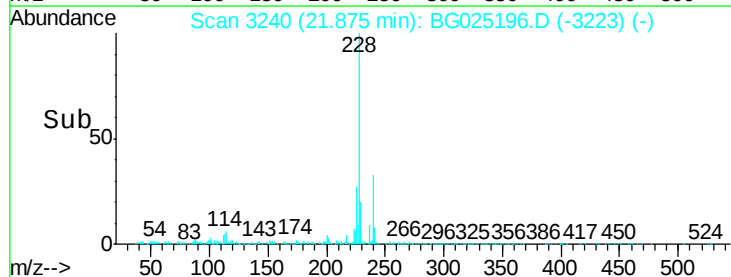
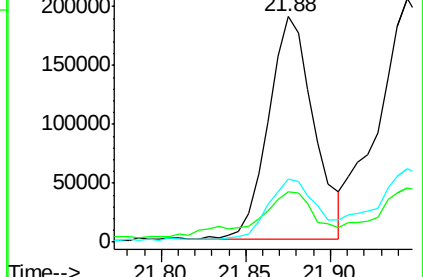
226 28.0 21.9 32.9

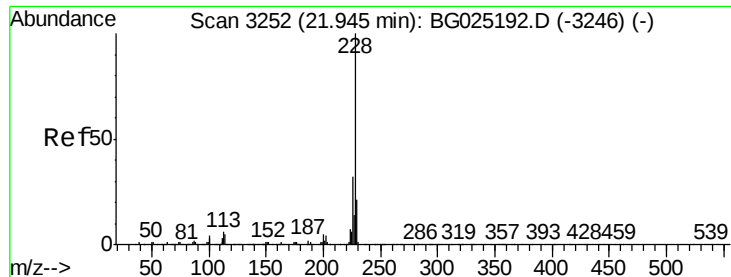


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 11.92 ng/ul

RT: 21.95 min Scan# 3252

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

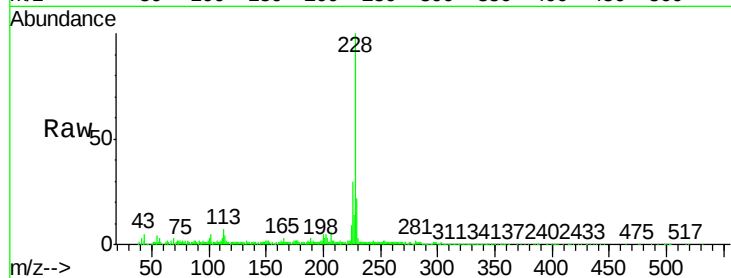
Tgt Ion:228 Resp: 430459

Ion Ratio Lower Upper

228 100

226 30.1 24.0 36.0

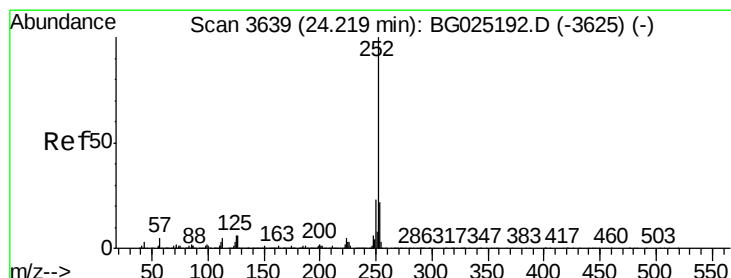
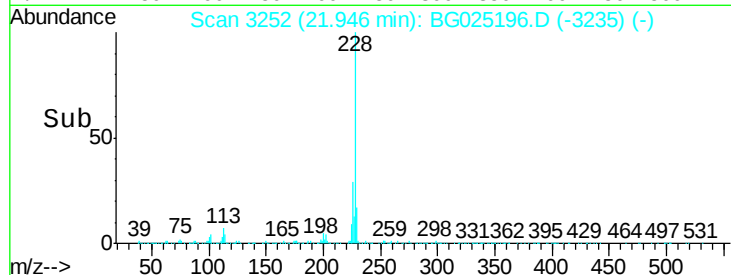
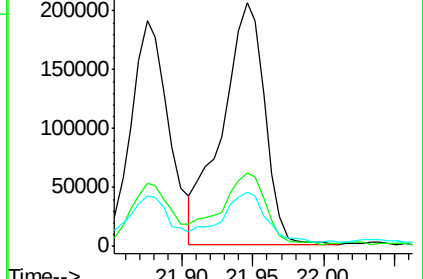
229 22.2 16.9 25.3



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: 18.71 ng/ul

RT: 24.23 min Scan# 3640

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

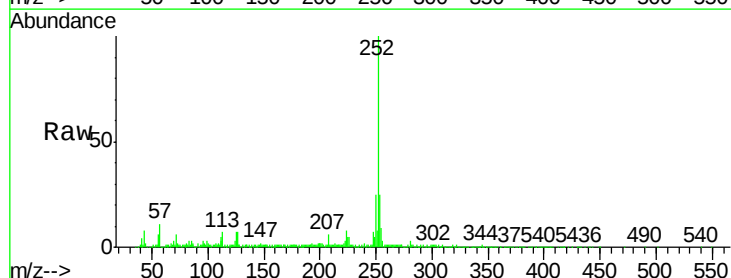
Tgt Ion:252 Resp: 711929

Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

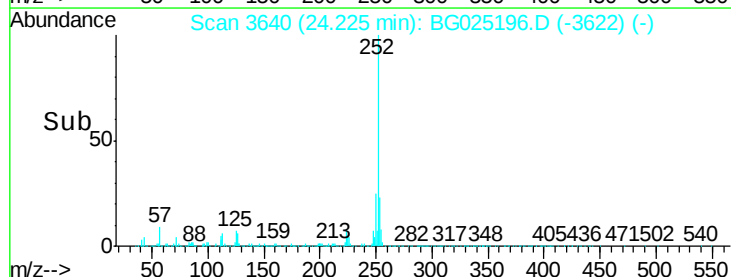
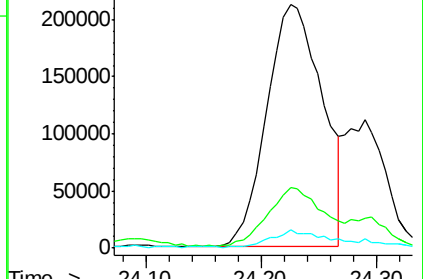
125 7.4 4.0 6.0#

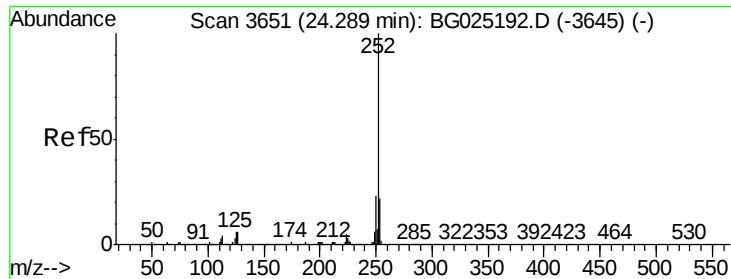


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

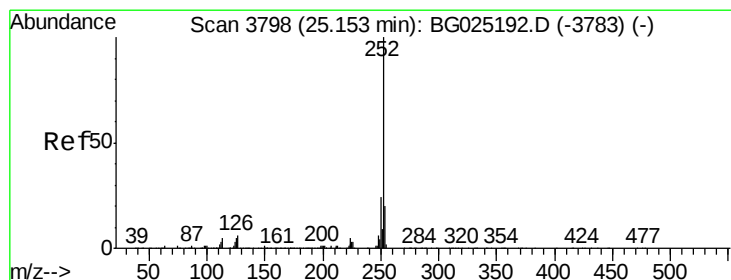
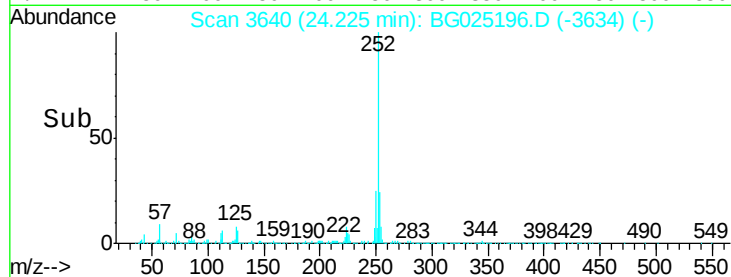
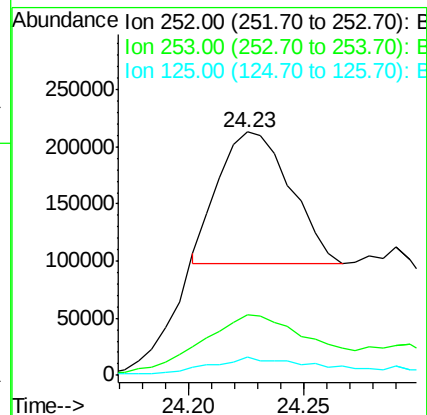
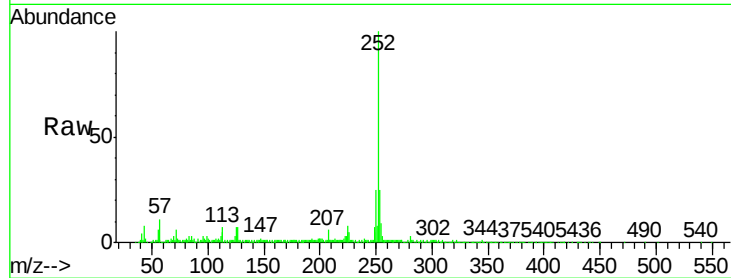




#86
Benzo(k)fluoranthene
Concen: 6.84 ng/ul
RT: 24.23 min Scan# 3640
Delta R.T. -0.06 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

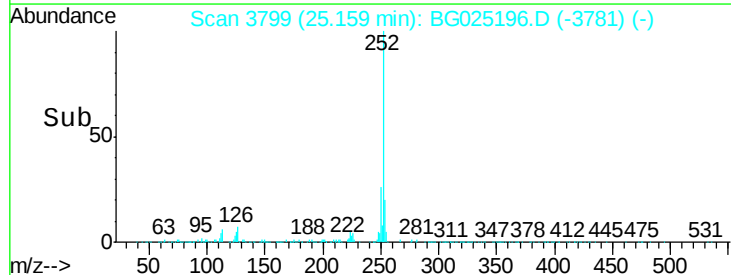
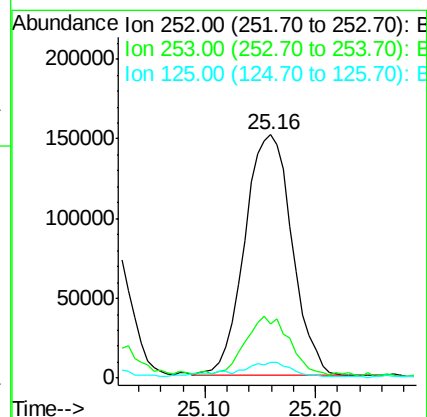
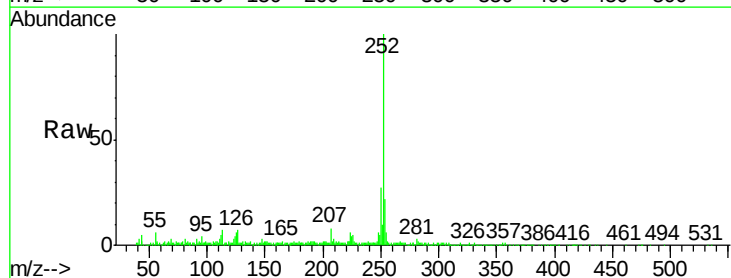
Instrument :
BNA_G
ClientSampleId :
DA843MSD

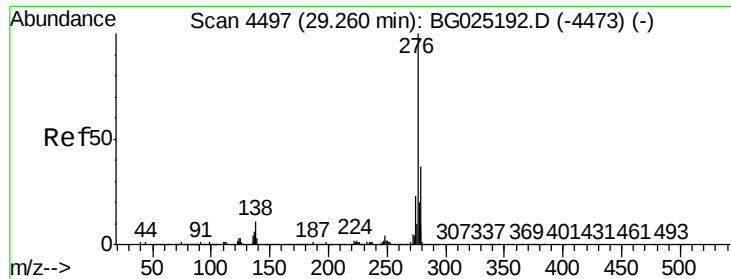
Tgt Ion:252 Resp: 247617
Ion Ratio Lower Upper
252 100
253 24.8 18.5 27.7
125 7.4 4.1 6.1#



#88
Benzo(a)pyrene
Concen: 12.40 ng/ul
RT: 25.16 min Scan# 3799
Delta R.T. 0.01 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion:252 Resp: 453596
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.6
125 6.4 5.4 8.0





#89

Indeno(1,2,3-cd)pyrene

Concen: 8.30 ng/ul

RT: 29.27 min Scan# 4498

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

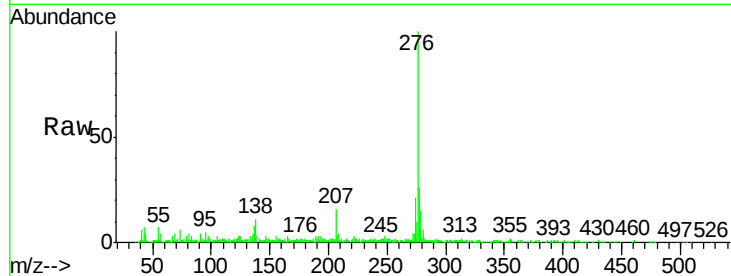
Tgt Ion:276 Resp: 377403

Ion Ratio Lower Upper

276 100

138 11.5 8.2 12.4

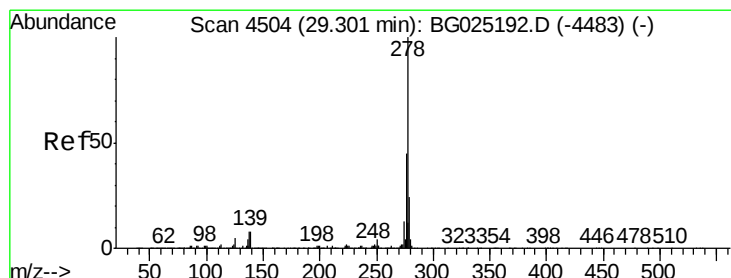
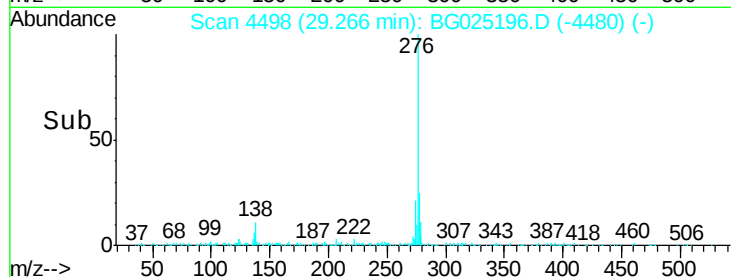
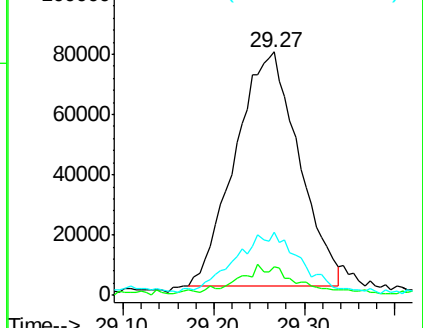
277 26.0 18.6 28.0



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: 2.09 ng/ul

RT: 29.30 min Scan# 4503

Delta R.T. -0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

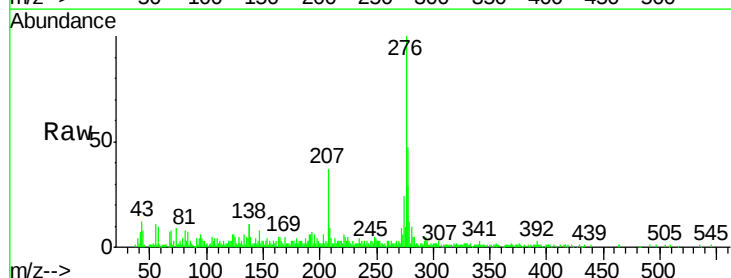
Tgt Ion:278 Resp: 80206

Ion Ratio Lower Upper

278 100

139 9.6 6.7 10.1

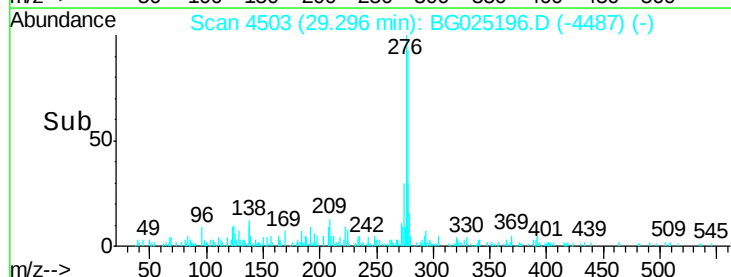
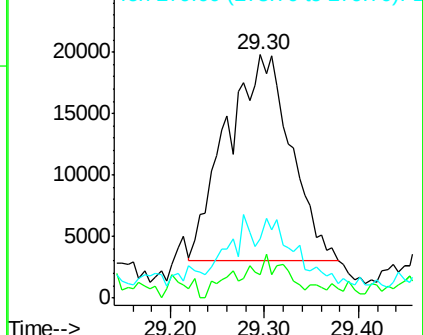
279 24.5 20.9 31.3

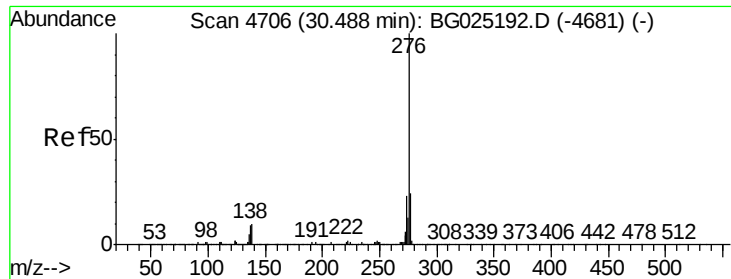


Abundance Ion 278.00 (277.70 to 278.70): E

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: 9.24 ng/ul

RT: 30.50 min Scan# 4708

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

Tgt Ion: 276 Resp: 350788

Ion Ratio Lower Upper

276 100

138 8.9 8.6 12.8

277 23.1 17.6 26.4

