

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102517\
 Data File : BG029475.D
 Acq On : 26 Oct 2017 12:58
 Operator : SJ/JU
 Sample : I5792-16
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Oct 26 14:27:31 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Oct 26 09:08:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	94300	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	436542	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.79	164	273103	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.53	188	576712	20.00	ng/ul	0.00
75) Chrysene-d12	21.81	240	608279	20.00	ng/ul	0.00
83) Perylene-d12	25.13	264	612469	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.55	96	13298	5.73	ng/uL	0.00
5) Phenol-d5	7.32	99	306418	33.86	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.48	67	183772	32.45	ng/ul	0.00
9) 2-Chlorophenol-d4	7.70	132	249496	39.08	ng/ul	0.00
13) 4-Methylphenol-d8	8.87	113	249887	34.18	ng/ul	0.00
19) Nitrobenzene-d5	9.34	128	132212	42.19	ng/ul	0.00
22) 2-Nitrophenol-d4	10.06	143	154449	48.10	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.60	165	280148	38.29	ng/ul	0.00
29) 4-Chloroaniline-d4	11.11	131	270080	31.77	ng/ul	0.00
43) Dimethylphthalate-d6	14.19	166	833218	35.69	ng/ul	0.00
46) Acenaphthylene-d8	14.49	160	1066159	37.55	ng/ul	0.00
51) 4-Nitrophenol-d4	14.98	143	111433	25.85	ng/ul	0.00
57) Fluorene-d10	15.78	176	751032	39.27	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.90	200	95727	34.00	ng/ul	0.00
70) Anthracene-d10	17.63	188	1050498	38.51	ng/ul	0.00
76) Pyrene-d10	19.90	212	1204497	38.25	ng/ul	0.00
87) Benzo(a)pyrene-d12	24.91	264	1204430	41.52	ng/ul	0.03

Target Compounds

					Ovalue	
6) Phenol	7.35	94	35723	3.814	ng/ul	95
15) N-Nitroso-di-n-propylamine	8.87	70	6525	1.055	ng/ul#	1
28) Naphthalene	11.04	128	113033	4.893	ng/ul	99
30) 4-Chloroaniline	11.04	127	14757	1.774	ng/ul#	8
34) 2-Methylnaphthalene	12.63	142	79764	4.172	ng/ul	96
40) 1,1'-Biphenyl	13.63	154	23238	1.032	ng/ul#	88
44) Dimethylphthalate	14.23	163	45799	2.011	ng/ul	98
47) Acenaphthylene	14.52	152	80084	2.765	ng/ul#	90
49) Acenaphthene	14.86	153	25182	1.271	ng/ul	93
53) Dibenzofuran	15.19	168	122135	4.508	ng/ul	96
58) Fluorene	15.83	166	108473	5.019	ng/ul	97
69) Phenanthrene	17.66	178	79189	2.540	ng/ul	98
71) Anthracene	17.66	178	79207	2.462	ng/ul	99
72) Carbazole	17.92	167	128857	4.456	ng/ul	98
74) Fluoranthene	19.57	202	2321976	66.642	ng/ul#	94
77) Pyrene	19.94	202	2081791	51.065	ng/ul#	96
80) Benzo(a)anthracene	21.78	228	651969	17.103	ng/ul	98
82) Chrysene	21.85	228	1142868	32.996	ng/ul#	93
85) Benzo(b)fluoranthene	24.08	252	1184700	32.221	ng/ul	97
86) Benzo(k)fluoranthene	24.08	252	1184700	33.325	ng/ul	97
88) Benzo(a)pyrene	24.98	252	715118	19.981	ng/ul	96
89) Indeno(1,2,3-cd)pyrene	28.93	276	465012	11.484	ng/ul	98
90) Dibenzo(a,h)anthracene	28.97	278	53997	1.605	ng/ul#	85

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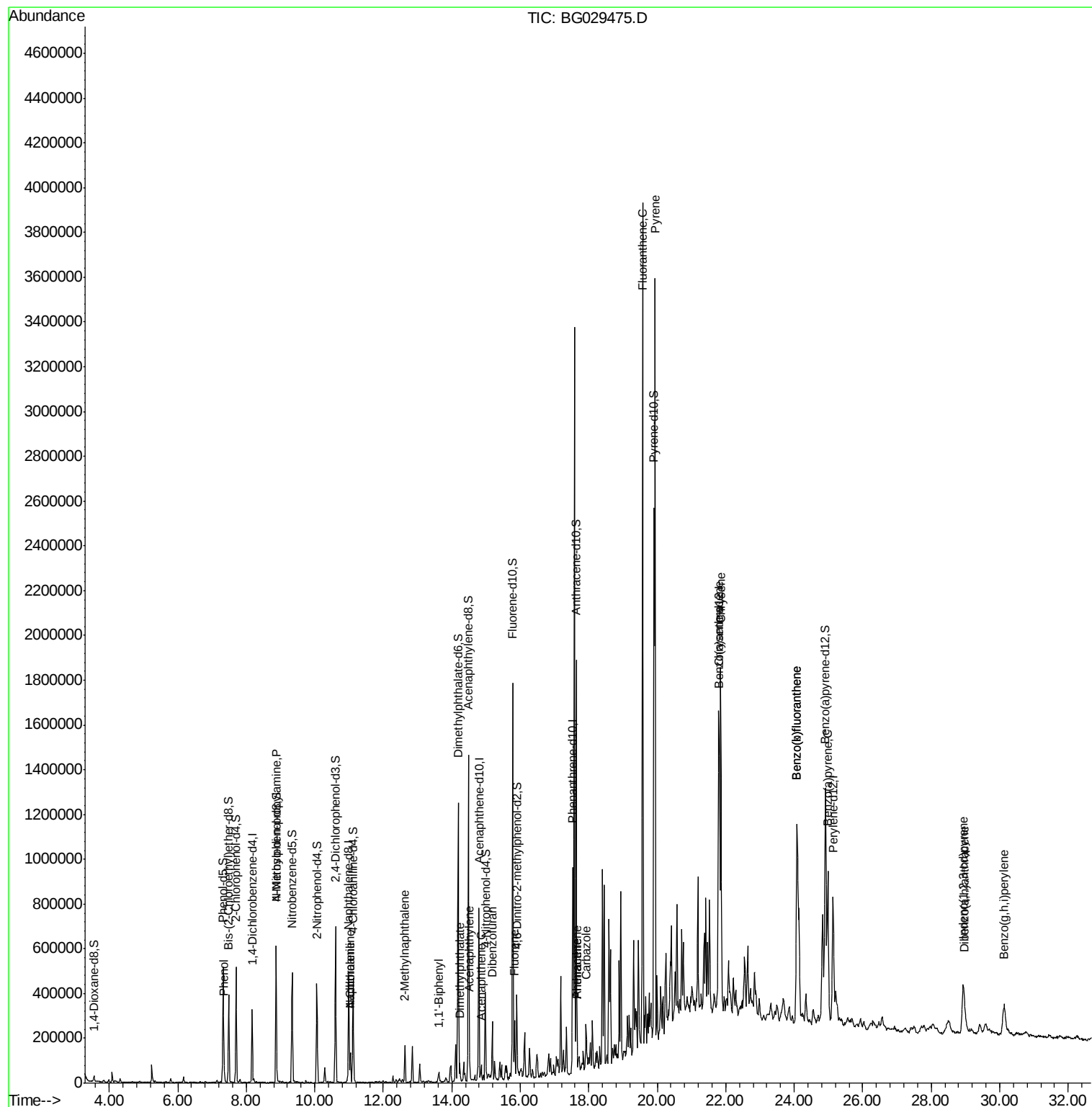
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	30.13	276	374809	11.167	ng/ul#	93

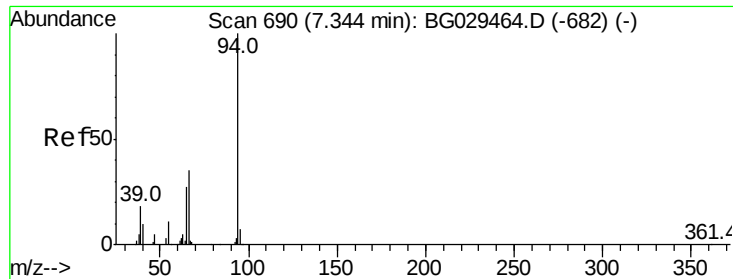
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 3.814 ng/ul

RT: 7.35 min Scan# 691

Delta R.T. 0.00 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

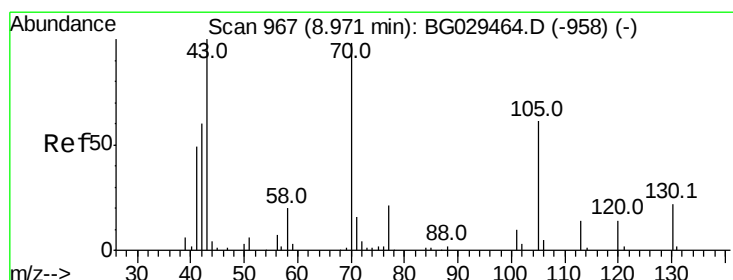
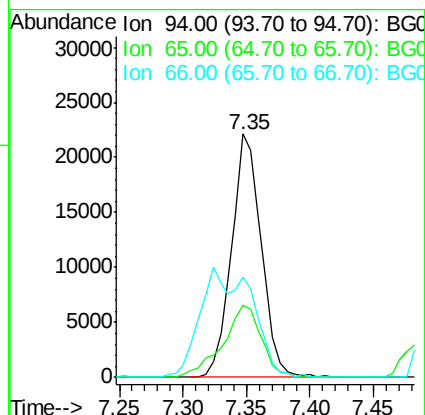
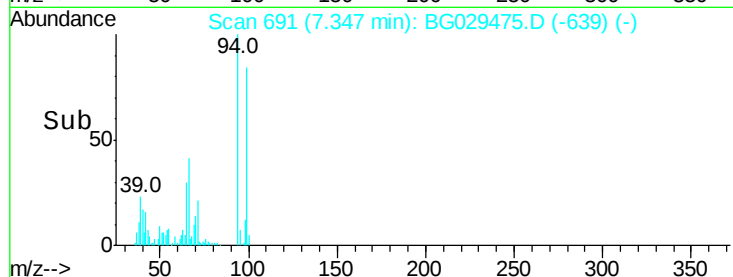
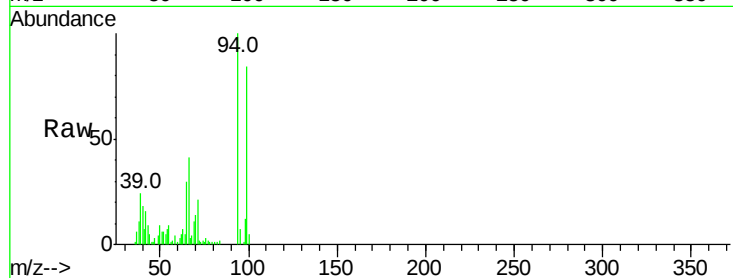
Tot Ion: 94 Resp: 35723

Ion Ratio Lower Upper

94 100

65 29.6 27.1 40.7

66 40.9 34.6 52.0



#15

N-Nitroso-di-n-propylamine

Concen: 1.055 ng/ul

RT: 8.87 min Scan# 951

Delta R.T. -0.10 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Tgt Ion: 70 Resp: 6525

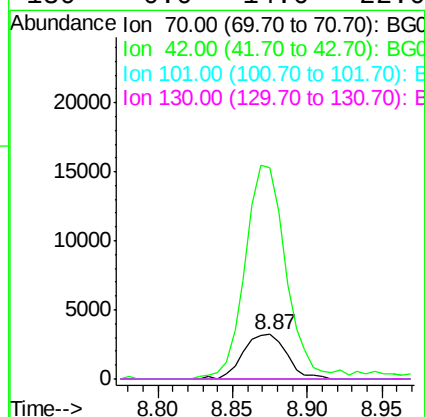
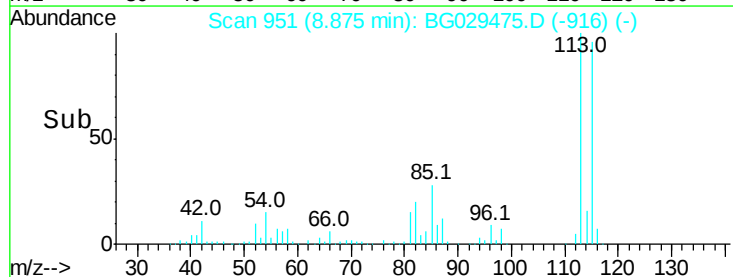
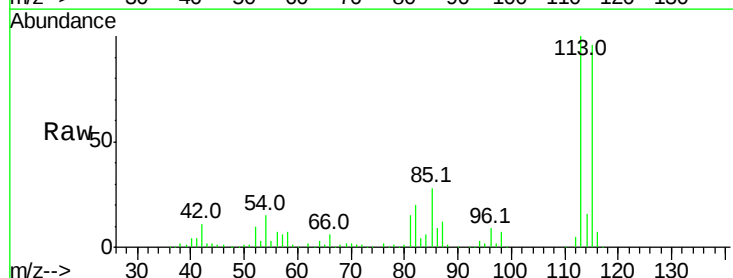
Ion Ratio Lower Upper

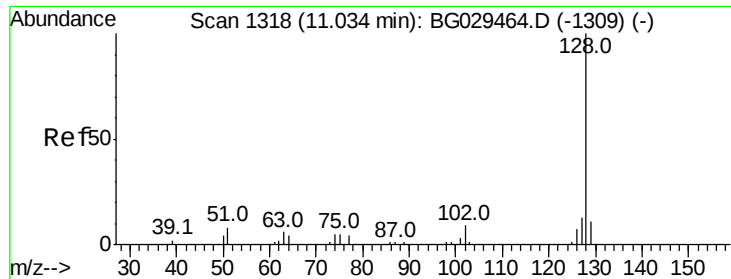
70 100

42 476.8 51.7 77.5#

101 0.0 7.6 11.4#

130 0.0 14.6 22.0#





#28

Naphthalene

Concen: 4.893 ng/ul

RT: 11.04 min Scan# 1319

Delta R.T. 0.00 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

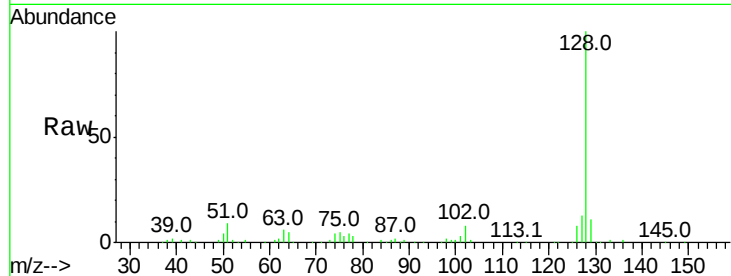
Tot Ion:128 Resp: 113033

Ion Ratio Lower Upper

128 100

129 10.7 9.3 13.9

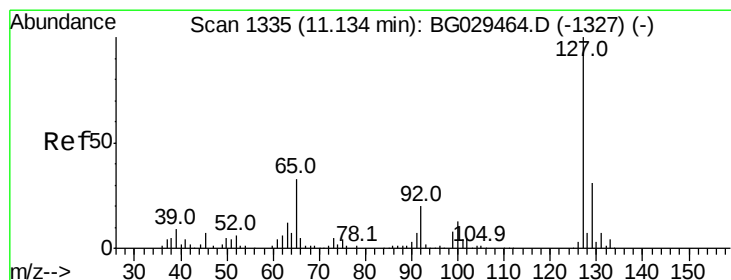
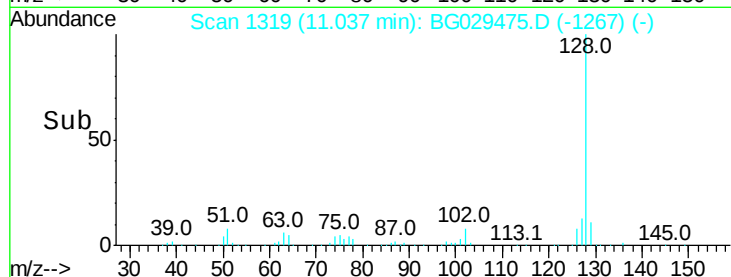
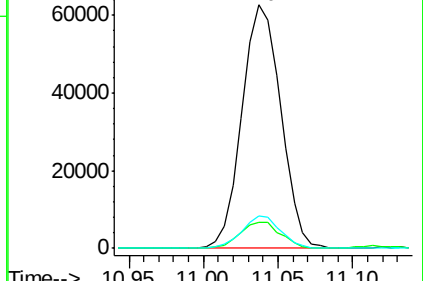
127 13.5 10.7 16.1



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



#30

4-Chloroaniline

Concen: 1.774 ng/ul

RT: 11.04 min Scan# 1319

Delta R.T. -0.10 min

Lab File: BG029475.D

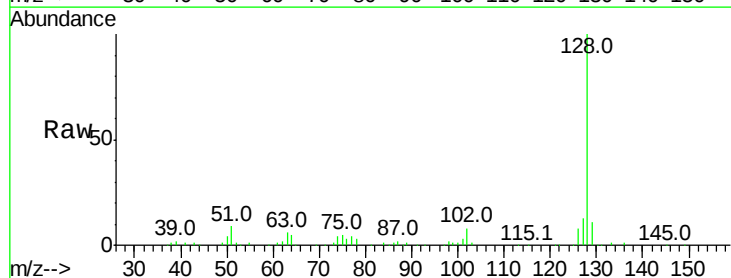
Acq: 26 Oct 2017 12:58

Tgt Ion:127 Resp: 14757

Ion Ratio Lower Upper

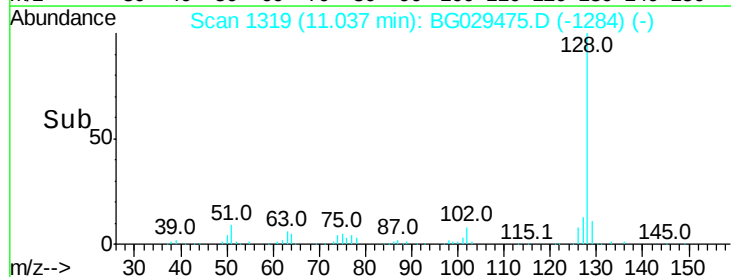
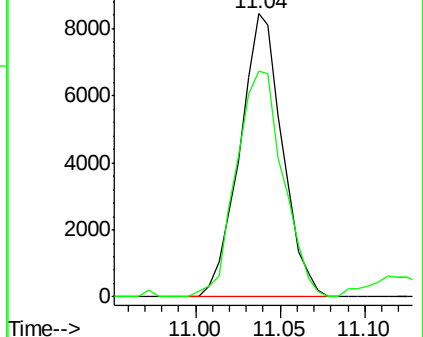
127 100

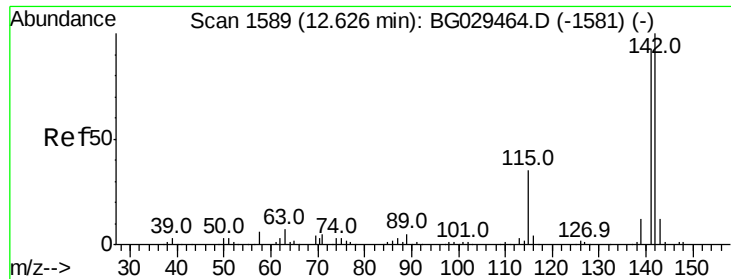
129 79.7 23.9 35.9#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

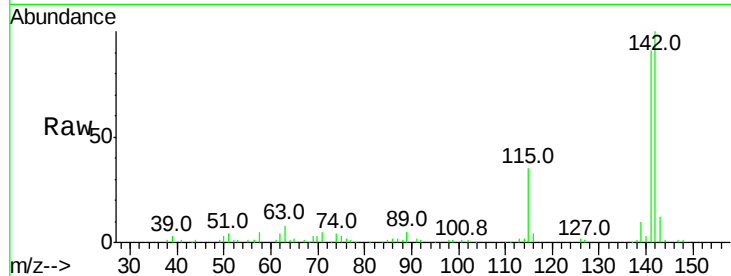




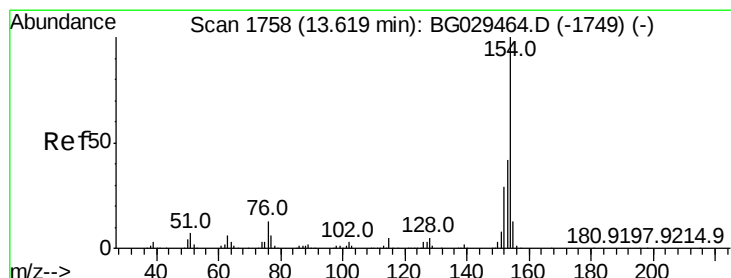
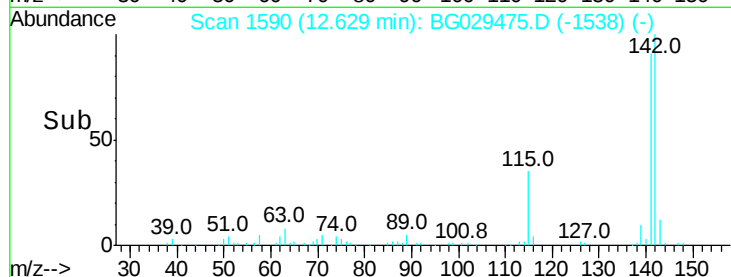
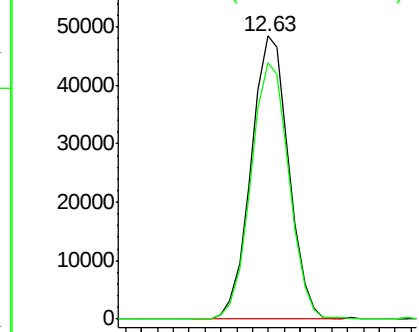
#34
 2-Methylnaphthalene
 Concen: 4.172 ng/ul
 RT: 12.63 min Scan# 1590
 Delta R.T. 0.00 min
 Lab File: BG029475.D
 Acq: 26 Oct 2017 12:58

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:142 Resp: 79764
 Ion Ratio Lower Upper
 142 100
 141 90.8 75.4 113.0

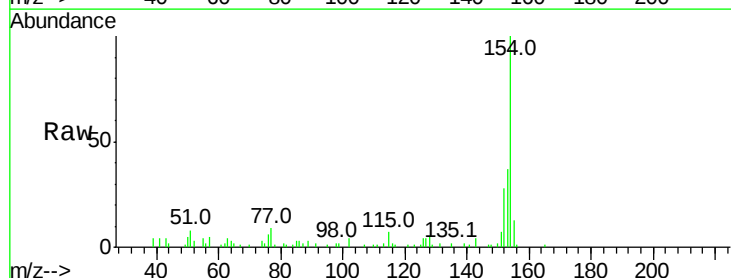


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E

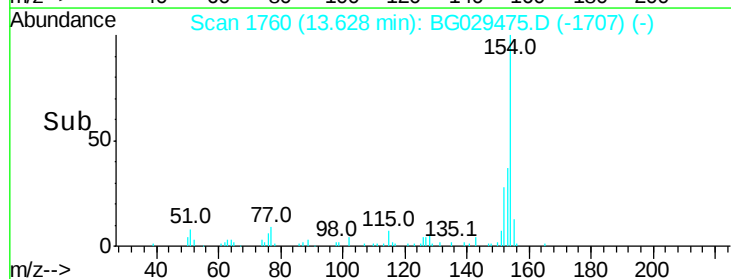
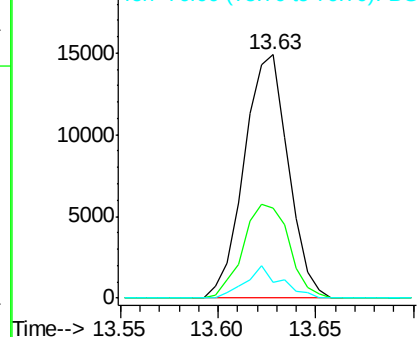


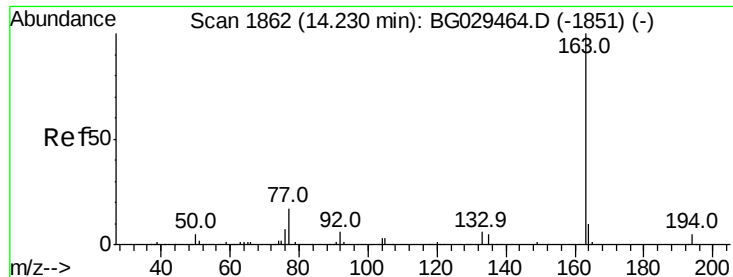
#40
 1,1'-Biphenyl
 Concen: 1.032 ng/ul
 RT: 13.63 min Scan# 1760
 Delta R.T. 0.01 min
 Lab File: BG029475.D
 Acq: 26 Oct 2017 12:58

Tgt Ion:154 Resp: 23238
 Ion Ratio Lower Upper
 154 100
 153 36.9 34.6 52.0
 76 6.5 10.6 15.8#



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BG





#44

Dimethylphthalate

Concen: 2.011 ng/ul

RT: 14.23 min Scan# 1863

Delta R.T. 0.00 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

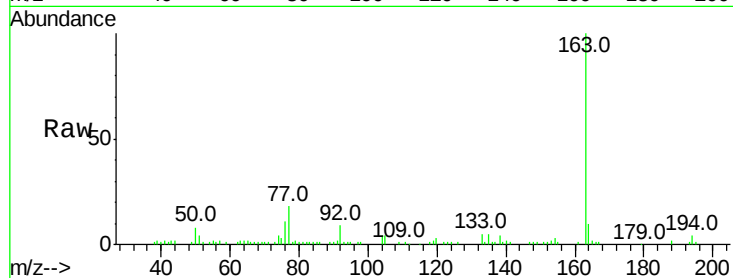
Tot Ion:163 Resp: 45799

Ion Ratio Lower Upper

163 100

194 4.0 3.5 5.3

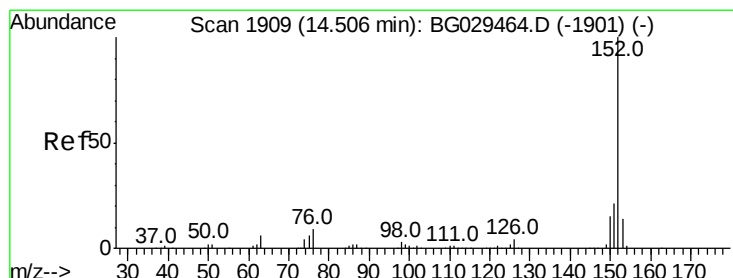
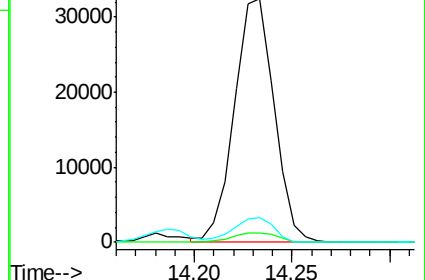
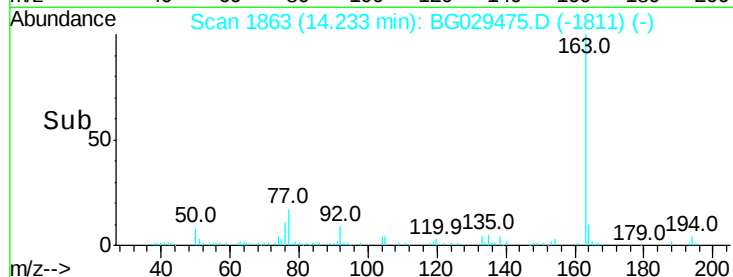
164 10.2 7.6 11.4



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: 2.765 ng/ul

RT: 14.52 min Scan# 1911

Delta R.T. 0.01 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

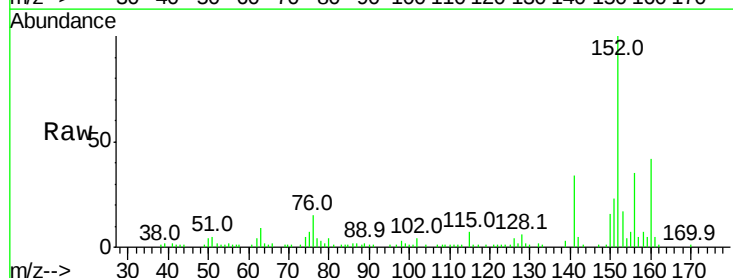
Tgt Ion:152 Resp: 80084

Ion Ratio Lower Upper

152 100

151 22.7 15.2 22.8

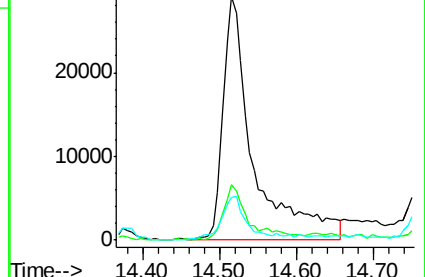
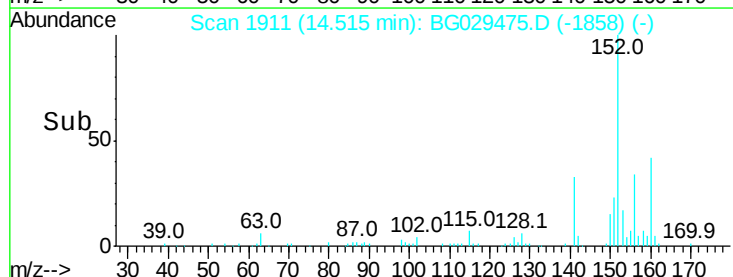
153 17.4 10.2 15.4#

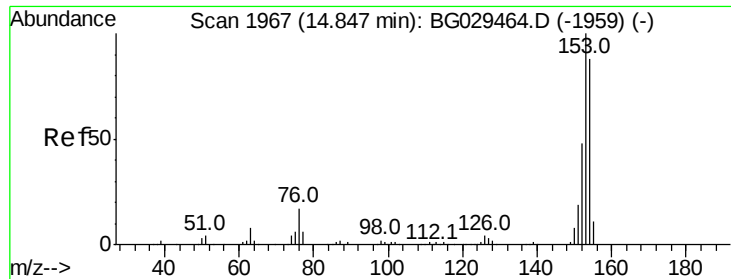


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 1.271 ng/ul

RT: 14.86 min Scan# 1969

Delta R.T. 0.01 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

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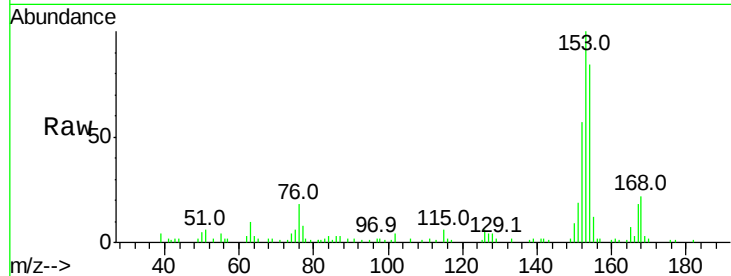
Tot Ion:153 Resp: 25182

Ion Ratio Lower Upper

153 100

152 56.8 38.2 57.2

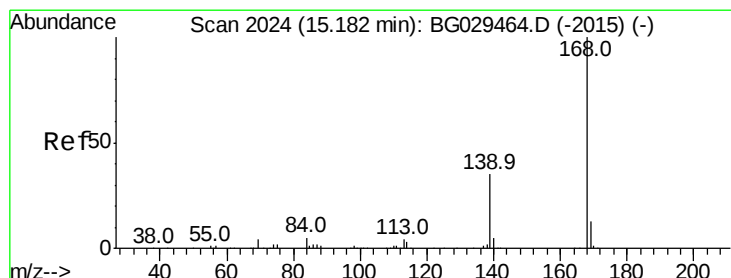
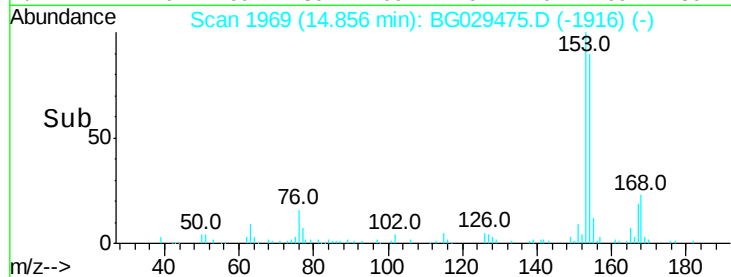
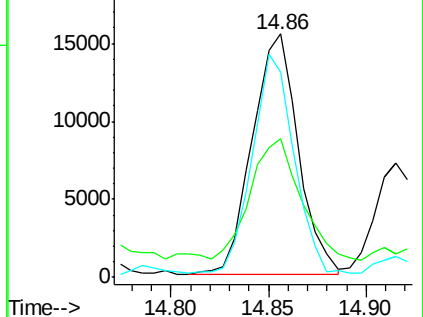
154 84.3 70.6 105.8



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: 4.508 ng/ul

RT: 15.19 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BG029475.D

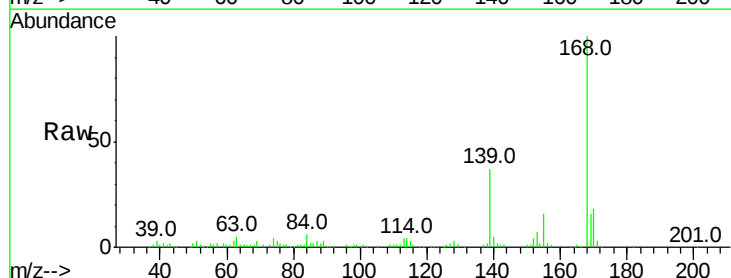
Acq: 26 Oct 2017 12:58

Tgt Ion:168 Resp: 122135

Ion Ratio Lower Upper

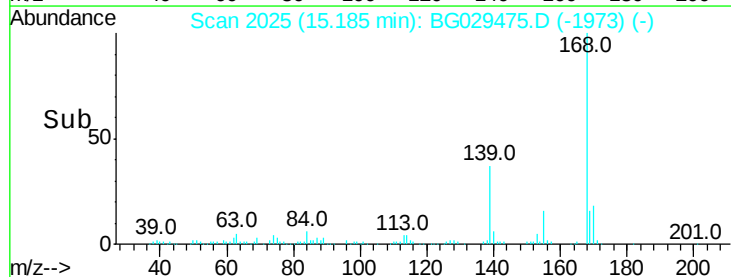
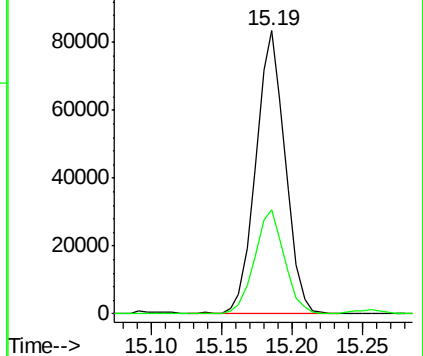
168 100

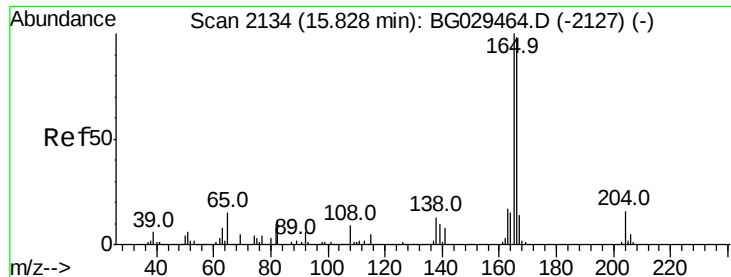
139 36.8 31.4 47.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 5.019 ng/ul

RT: 15.83 min Scan# 2135

Delta R.T. 0.00 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

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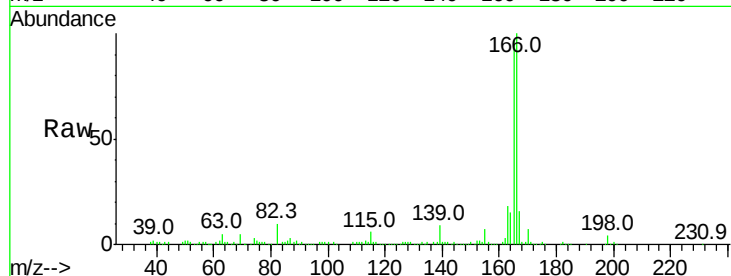
Tot Ion:166 Resp: 108473

Ion Ratio Lower Upper

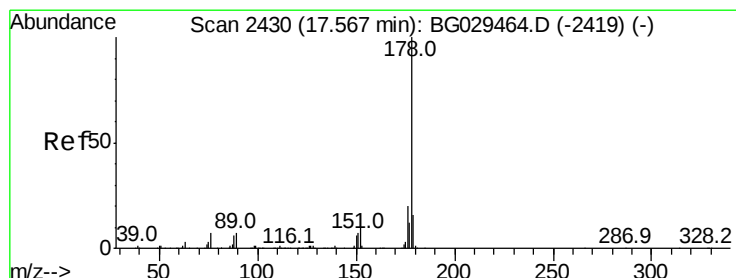
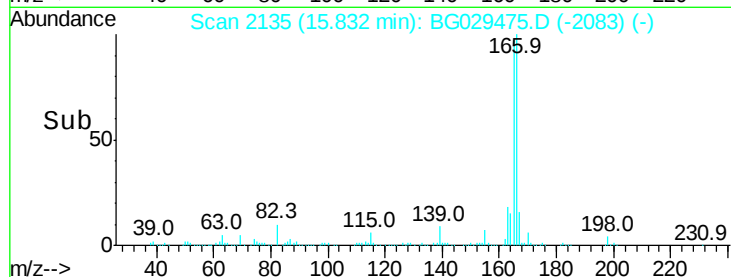
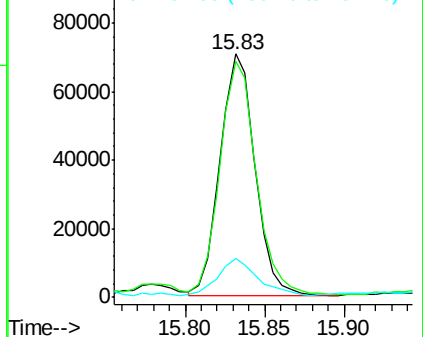
166 100

165 97.1 79.9 119.9

167 15.8 10.6 16.0



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



#69

Phenanthrene

Concen: 2.540 ng/ul

RT: 17.66 min Scan# 2447

Delta R.T. 0.10 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

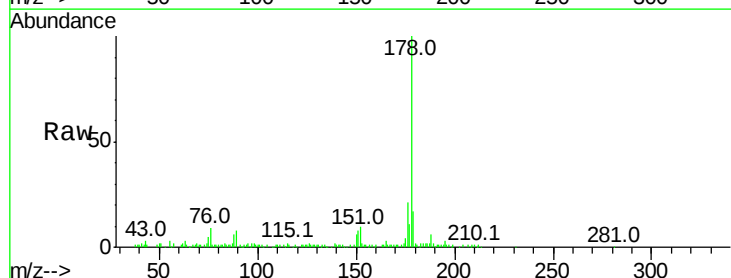
Tgt Ion:178 Resp: 79189

Ion Ratio Lower Upper

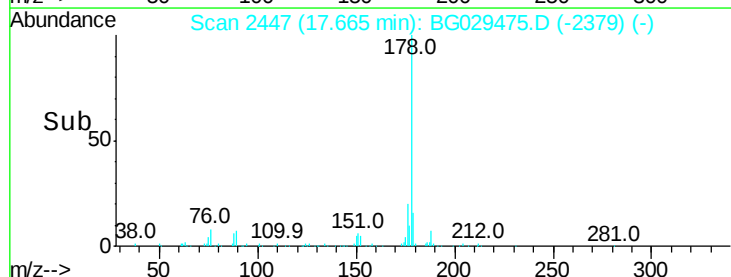
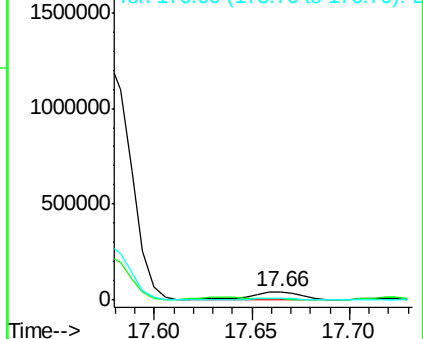
178 100

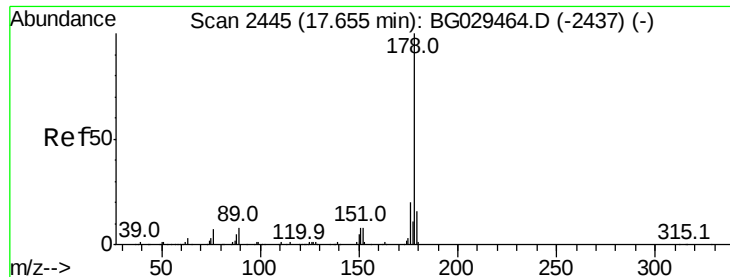
179 16.9 13.0 19.6

176 20.5 15.3 22.9



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

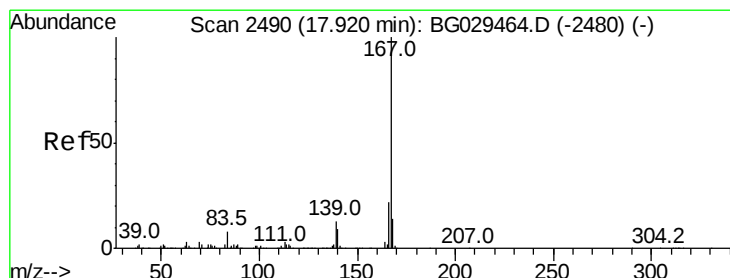
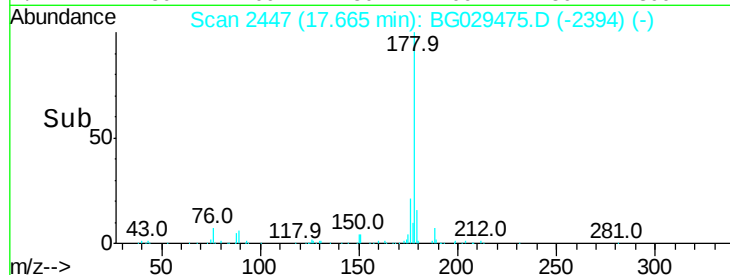
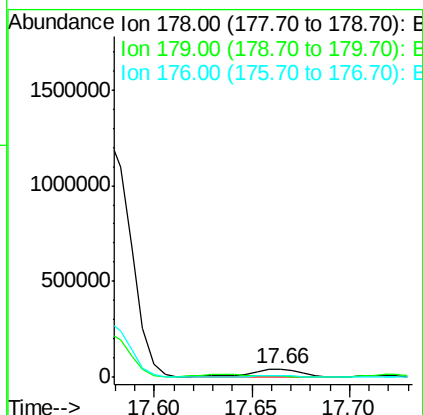
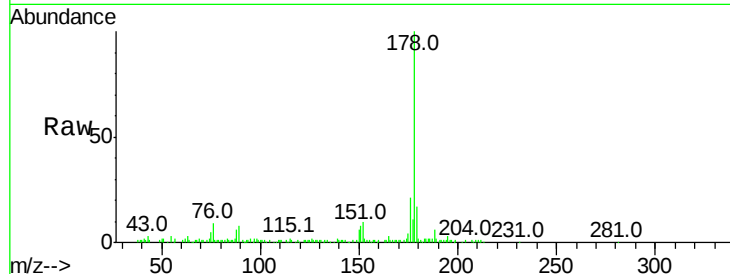




#71
 Anthracene
 Concen: 2.462 ng/ul
 RT: 17.66 min Scan# 2447
 Delta R.T. 0.01 min
 Lab File: BG029475.D
 Acq: 26 Oct 2017 12:58

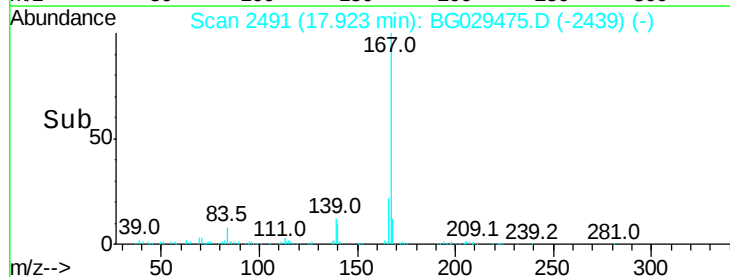
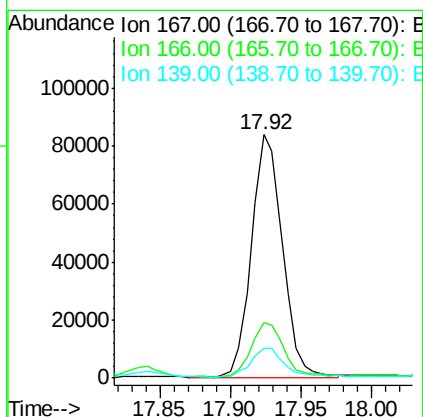
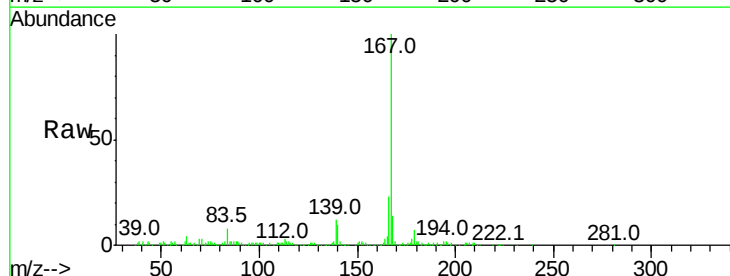
Instrument :
 BNA_G
 ClientSampleId :

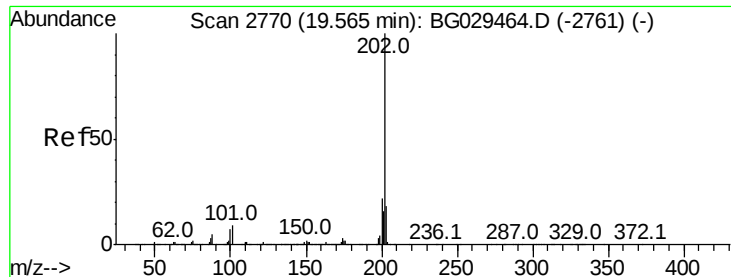
Tot Ion:178 Resp: 79207
 Ion Ratio Lower Upper
 178 100
 179 16.9 13.2 19.8
 176 20.5 16.0 24.0



#72
 Carbazole
 Concen: 4.456 ng/ul
 RT: 17.92 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: BG029475.D
 Acq: 26 Oct 2017 12:58

Tgt Ion:167 Resp: 128857
 Ion Ratio Lower Upper
 167 100
 166 22.8 18.6 28.0
 139 12.3 10.6 16.0





#74

Fluoranthene

Concen: 66.642 ng/ul

RT: 19.57 min Scan# 2772

Delta R.T. 0.01 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

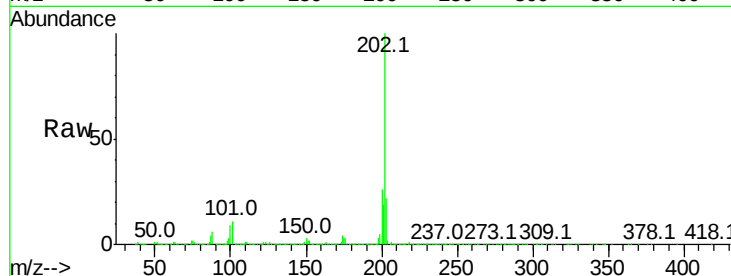
Tot Ion:202 Resp: 2321976

Ion	Ratio	Lower	Upper
202	100		
101	11.2	7.4	11.2#
100	9.1	5.6	8.4#

202 100

101 11.2 7.4 11.2#

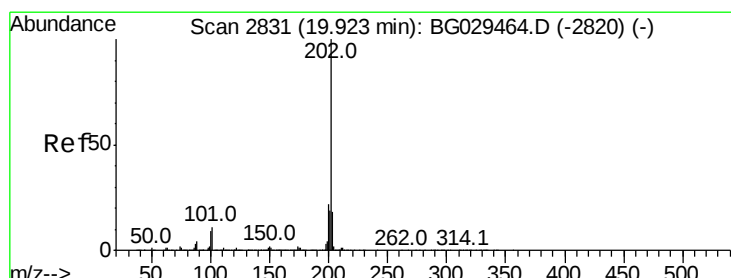
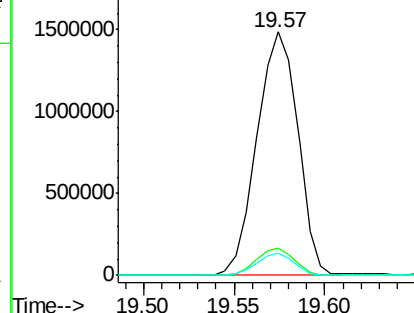
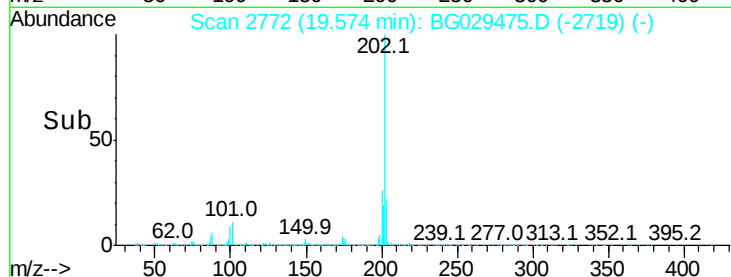
100 9.1 5.6 8.4#



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: 51.065 ng/ul

RT: 19.94 min Scan# 2834

Delta R.T. 0.02 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

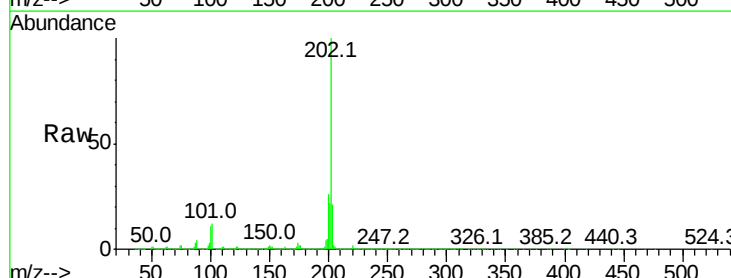
Tgt Ion:202 Resp: 2081791

Ion	Ratio	Lower	Upper
202	100		
101	11.9	8.4	12.6
100	10.6	7.0	10.6#

202 100

101 11.9 8.4 12.6

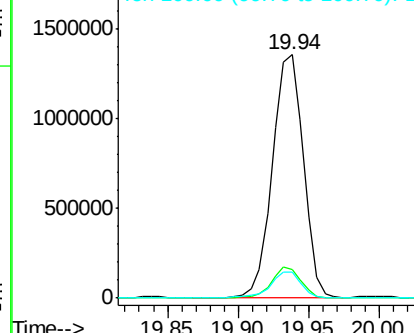
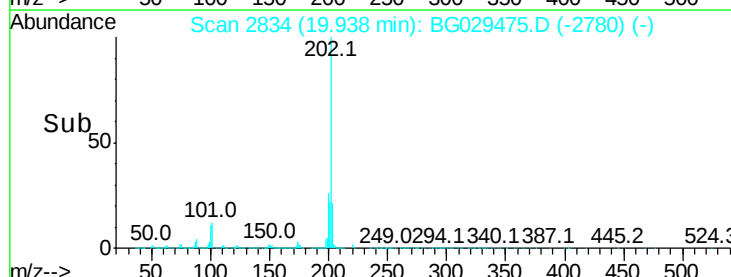
100 10.6 7.0 10.6#

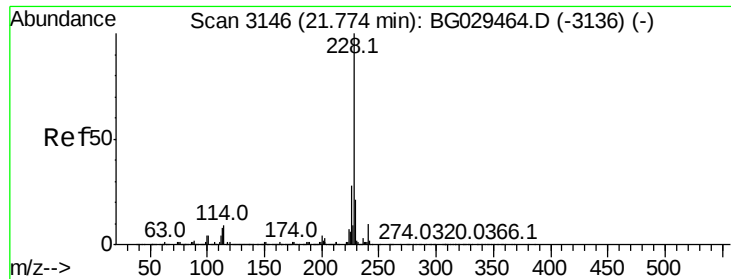


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

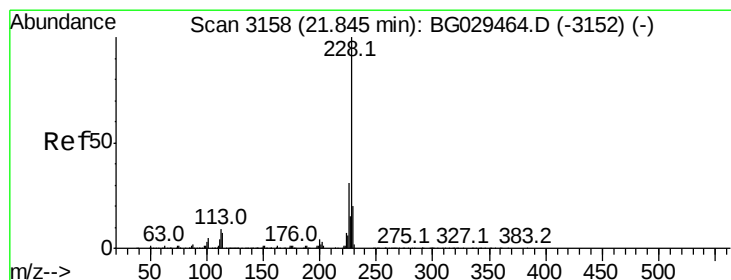
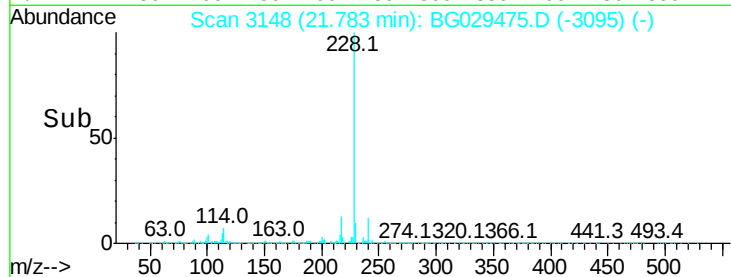
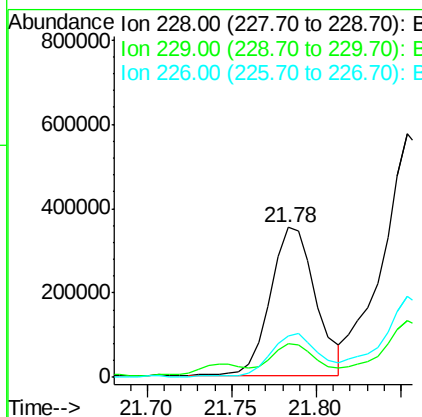
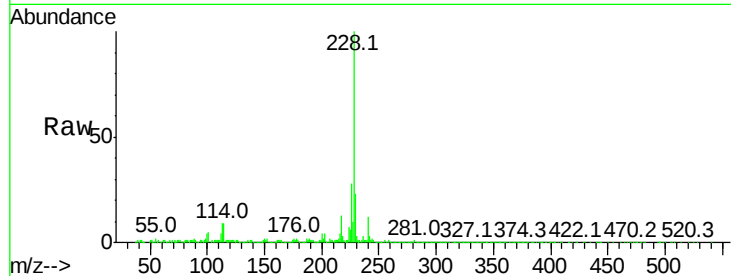




#80
Benzo(a)anthracene
Concen: 17.103 ng/ul
RT: 21.78 min Scan# 3148
Delta R.T. 0.01 min
Lab File: BG029475.D
Acq: 26 Oct 2017 12:58

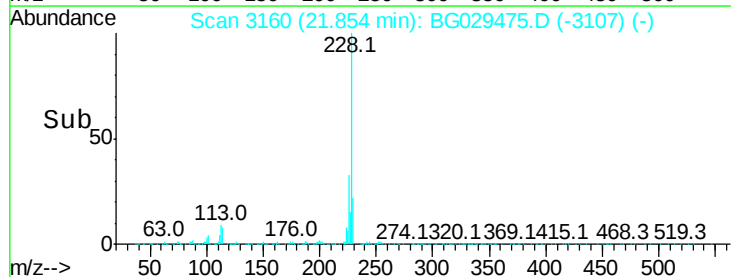
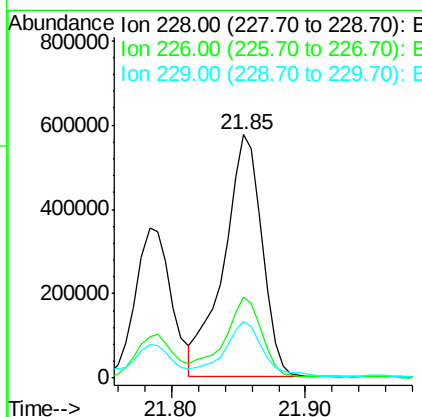
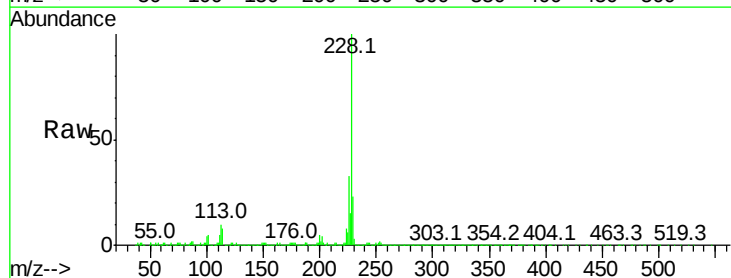
Instrument :
BNA_G
ClientSampleId :

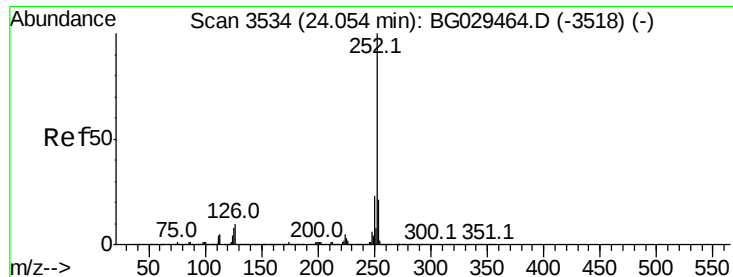
Tot Ion:228 Resp: 651969
Ion Ratio Lower Upper
228 100
229 22.9 16.2 24.4
226 27.7 22.2 33.2



#82
Chrysene
Concen: 32.996 ng/ul
RT: 21.85 min Scan# 3160
Delta R.T. 0.01 min
Lab File: BG029475.D
Acq: 26 Oct 2017 12:58

Tgt Ion:228 Resp: 1142868
Ion Ratio Lower Upper
228 100
226 33.1 24.2 36.2
229 23.1 15.2 22.8#





#85

Benzo(b)fluoranthene

Concen: 32.221 ng/ul

RT: 24.08 min Scan# 3539

Delta R.T. 0.03 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

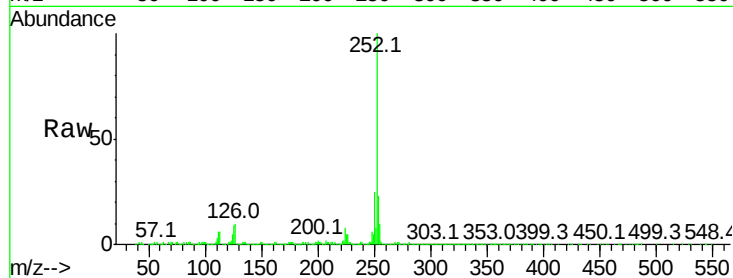
Tot Ion:252 Resp: 1184700

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.4
125	8.9	7.5	11.3

252 100

253 23.2 17.0 25.4

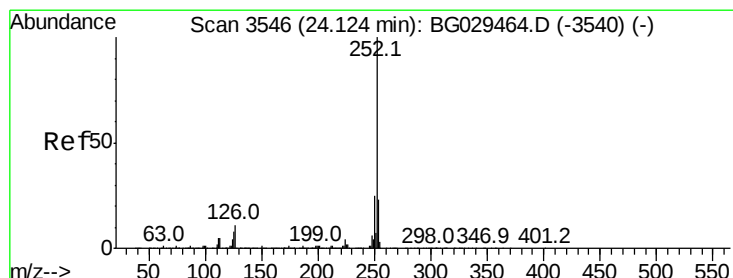
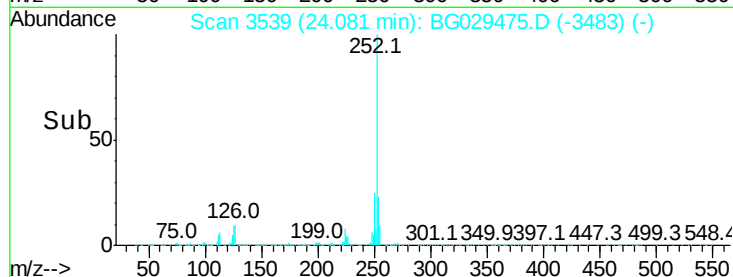
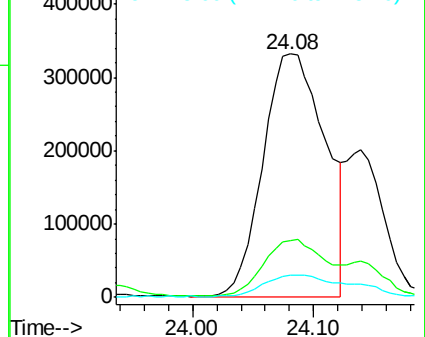
125 8.9 7.5 11.3



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: 33.325 ng/ul

RT: 24.08 min Scan# 3539

Delta R.T. -0.04 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

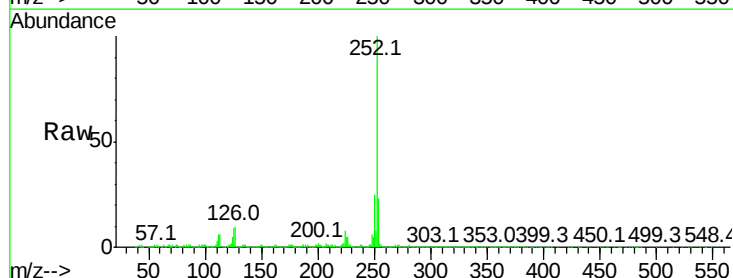
Tgt Ion:252 Resp: 1184700

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	8.9	7.8	11.8

252 100

253 23.2 17.2 25.8

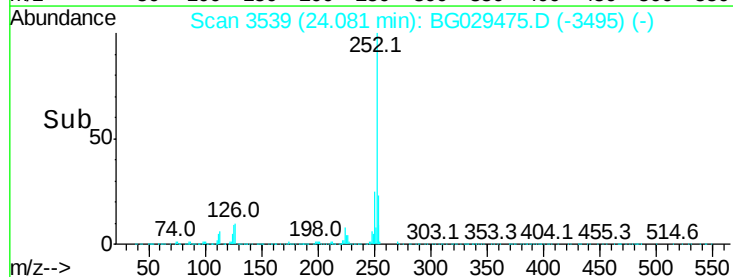
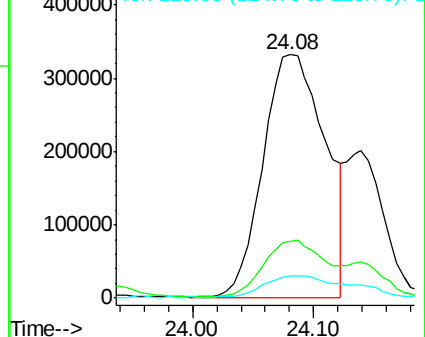
125 8.9 7.8 11.8

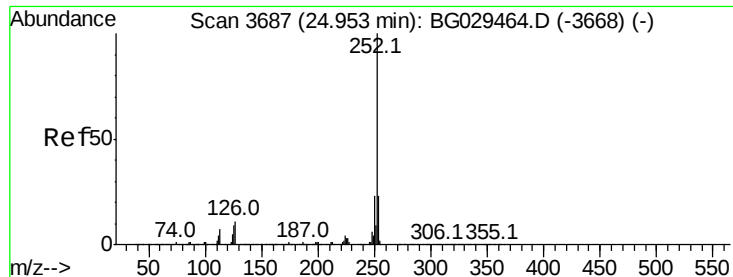


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 19.981 ng/ul

RT: 24.98 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

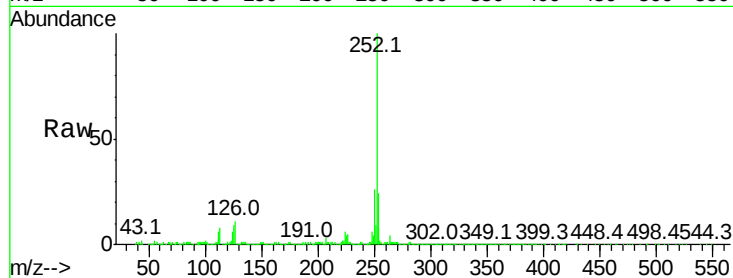
Tot Ion:252 Resp: 715118

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

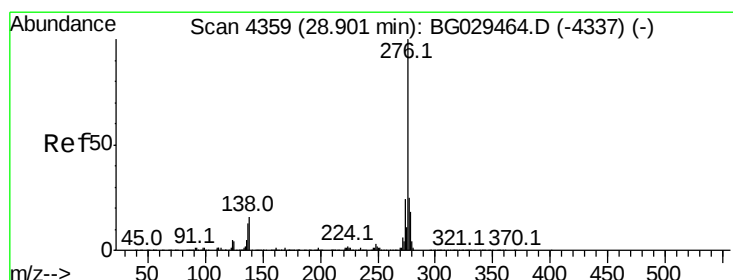
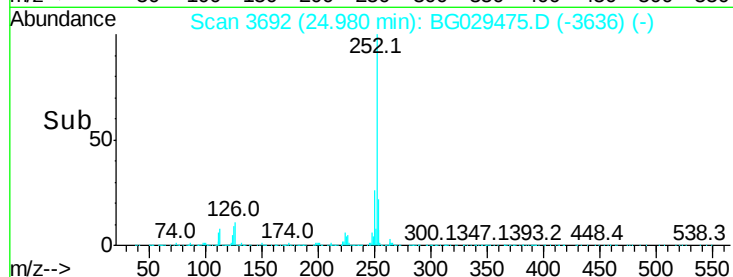
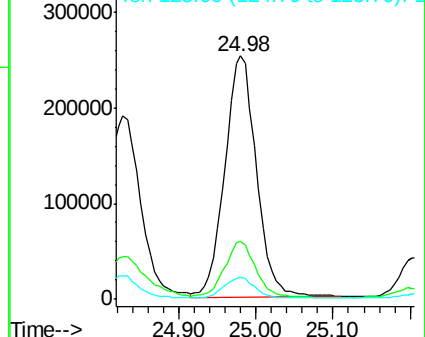
125 9.4 7.8 11.8



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: 11.484 ng/ul

RT: 28.93 min Scan# 4365

Delta R.T. 0.03 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

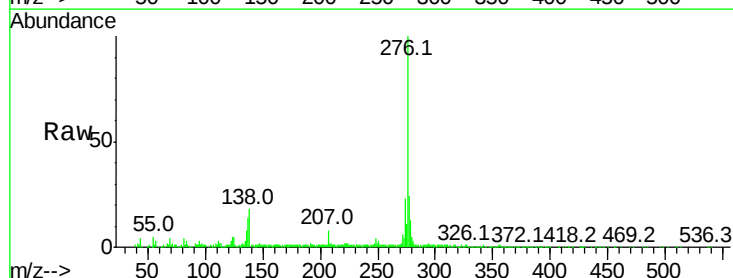
Tgt Ion:276 Resp: 465012

Ion Ratio Lower Upper

276 100

138 18.2 13.4 20.0

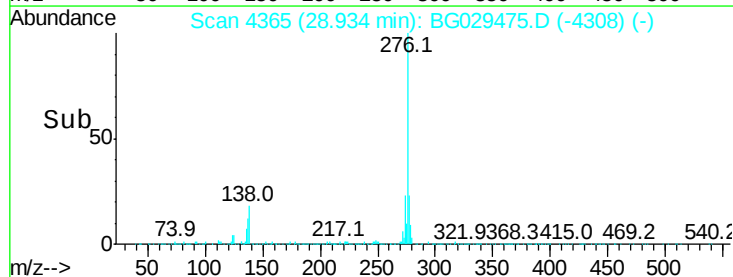
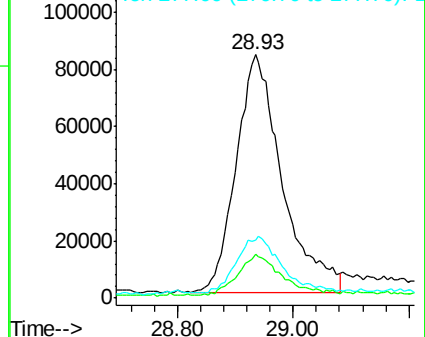
277 23.7 18.6 28.0

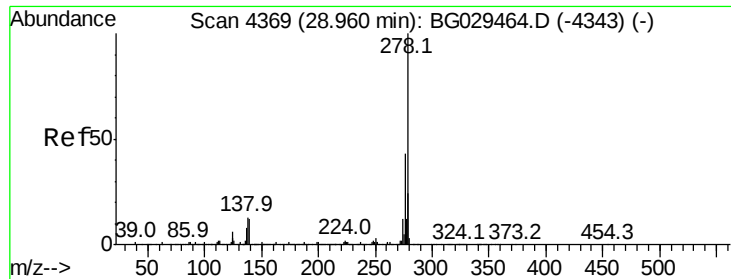


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 1.605 ng/ul

RT: 28.97 min Scan# 4371

Delta R.T. 0.01 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Instrument :

BNA_G

ClientSampleId :

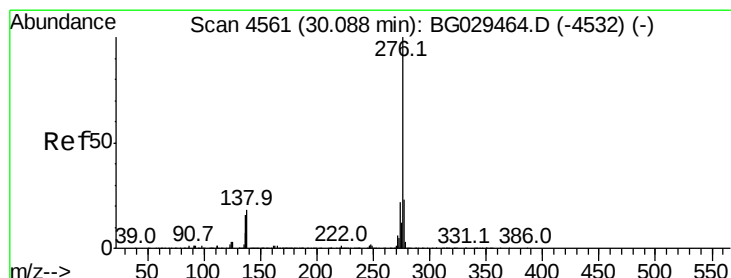
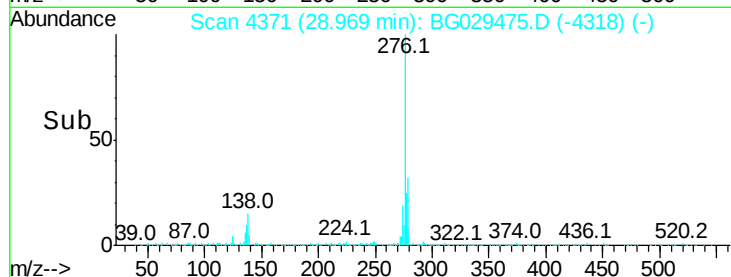
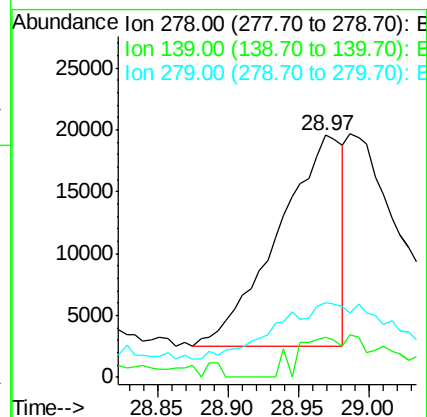
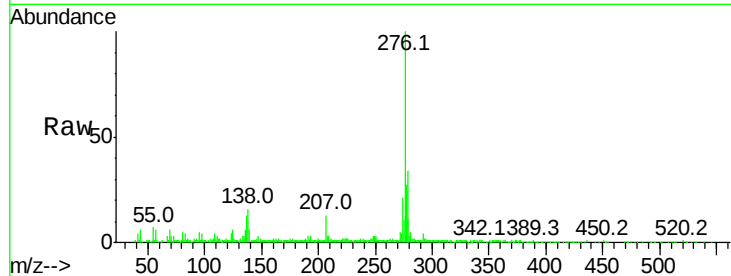
Tot Ion:278 Resp: 53997

Ion Ratio Lower Upper

278 100

139 16.8 9.4 14.2#

279 30.9 18.4 27.6#



#91

Benzo(g,h,i)perylene

Concen: 11.167 ng/ul

RT: 30.13 min Scan# 4569

Delta R.T. 0.04 min

Lab File: BG029475.D

Acq: 26 Oct 2017 12:58

Tgt Ion:276 Resp: 374809

Ion Ratio Lower Upper

276 100

138 18.2 12.1 18.1#

277 25.1 17.7 26.5

