

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081015\
 Data File : BG018371.D
 Acq On : 11 Aug 2015 2:00
 Operator : UM/MA
 Sample : G3109-20RE
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F4

Quant Time: Aug 11 04:20:12 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 11 01:39:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	121355	20.00	ng/ul	0.00
18) Naphthalene-d8	10.85	136	535428	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.67	164	305651	20.00	ng/ul	0.01
62) Phenanthrene-d10	17.42	188	596601	20.00	ng/ul	0.02
78) Chrysene-d12	21.69	240	528979	20.00	ng/ul	0.03
86) Perylene-d12	24.94	264	552484	20.00	ng/ul	0.07

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	6959	2.53	ng/uL	0.00
5) Phenol-d5	7.20	99	156657	14.22	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.36	67	103351	15.14	ng/ul	0.00
9) 2-Chlorophenol-d4	7.57	132	129300	15.33	ng/ul	0.01
13) 4-Methylphenol-d8	8.74	113	106416	11.50	ng/ul	0.00
19) Nitrobenzene-d5	9.20	128	64465	15.45	ng/ul	0.01
22) 2-Nitrophenol-d4	9.92	143	67239	15.82	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.47	165	131276	14.55	ng/ul	0.01
29) 4-Chloroaniline-d4	10.97	131	51397	5.04	ng/ul	0.00
44) Dimethylphthalate-d6	14.07	166	393732	15.31	ng/ul	0.00
47) Acenaphthylene-d8	14.36	160	440511	13.60	ng/ul	0.01
52) 4-Nitrophenol-d4	14.86	143	38677	8.36	ng/ul	0.02
58) Fluorene-d10	15.66	176	284753	12.71	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.77	200	9397	3.20	ng/ul	0.02
71) Anthracene-d10	17.51	188	364844	12.79	ng/ul	0.01
79) Pyrene-d10	19.80	212	334929	12.20	ng/ul	0.02
90) Benzo(a)pyrene-d12	24.72	264	288332	9.83	ng/ul	0.06

Target Compounds

						Qvalue
14) Acetophenone	8.86	105	38625	2.89	ng/ul	90
17) Hexachloroethane	9.15	117	4978	1.34	ng/ul#	14
28) Naphthalene	10.90	128	81781	2.89	ng/ul	97
34) 2-Methylnaphthalene	12.50	142	96777	4.72	ng/ul	95
35) 1-Methylnaphthalene	12.72	142	56141	2.81	ng/ul	94
41) 1,1'-Biphenyl	13.50	154	29099	1.14	ng/ul	96
45) Dimethylphthalate	14.12	163	197502	7.79	ng/ul#	96
46) 2,6-Dinitrotoluene	14.22	165	6393	1.27	ng/ul#	38
49) 3-Nitroaniline	14.58	138	7189	1.40	ng/ul#	17
50) Acenaphthene	14.73	153	160113	7.03	ng/ul	99
54) Dibenzofuran	15.06	168	117309	3.94	ng/ul	88
59) Fluorene	15.72	166	192851	7.53	ng/ul	98
65) N-Nitrosodiphenylamine	15.93	169	29529	1.65	ng/ul#	57
70) Phenanthrene	17.46	178	1545355	47.74	ng/ul	95
72) Anthracene	17.55	178	531283	16.11	ng/ul	97
75) Carbazole	17.81	167	184140	6.37	ng/ul#	90
76) Di-n-butylphthalate	18.37	149	123337	3.26	ng/ul#	90
77) Fluoranthene	19.47	202	2130980	61.64	ng/ul#	93
80) Pyrene	19.83	202	1978778	55.32	ng/ul#	93
81) Butylbenzylphthalate	20.71	149	36220	2.39	ng/ul#	61
83) Benzo(a)anthracene	21.67	228	1152390	35.14	ng/ul#	91
84) Bis(2-ethylhexyl)phthalate	21.58	149	811208	37.95	ng/ul#	97
85) Chrysene	21.74	228	1109848	36.19	ng/ul	97

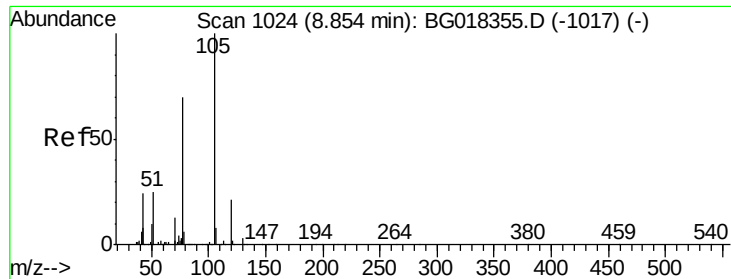
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081015\
Data File : BG018371.D
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Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 11 01:39:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Di-n-octyl phthalate	22.81	149	82119	2.30	ng/ul	100
88) Benzo(b)fluoranthene	23.92	252	1325849	38.19	ng/ul#	90
89) Benzo(k)fluoranthene	23.92	252	1325849	39.67	ng/ul#	90
91) Benzo(a)pyrene	24.79	252	998548	30.26	ng/ul#	91
92) Indeno(1,2,3-cd)pyrene	28.65	276	585169	15.32	ng/ul	94
93) Dibenzo(a,h)anthracene	28.69	278	163190	5.14	ng/ul#	66
94) Benzo(g,h,i)perylene	29.81	276	484736	15.12	ng/ul#	91

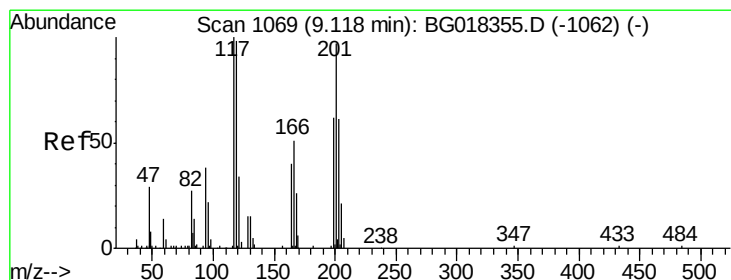
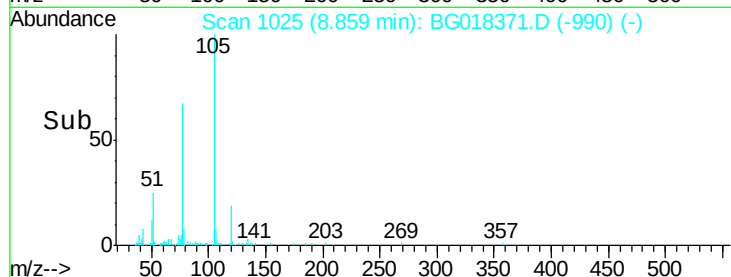
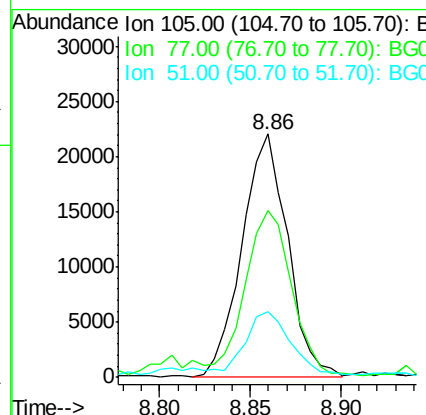
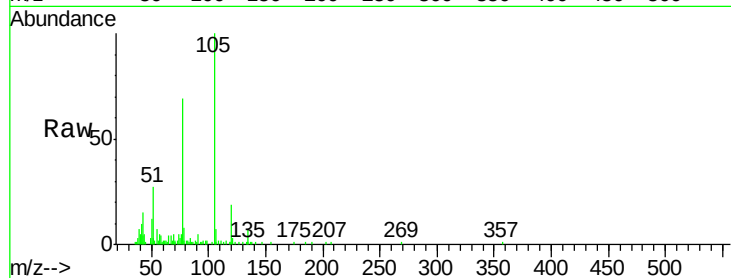
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#14
 Acetophenone
 Concen: 2.89 ng/ul
 RT: 8.86 min Scan# 1025
 Delta R.T. 0.01 min
 Lab File: BG018371.D
 Acq: 11 Aug 2015 2:00

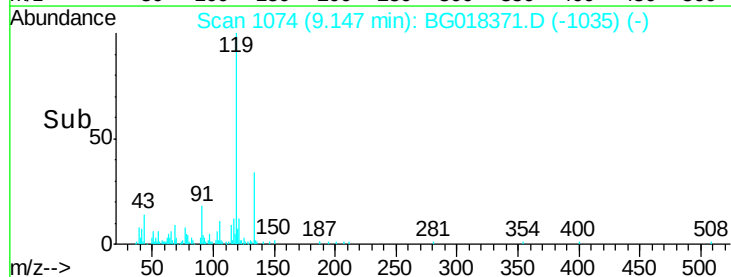
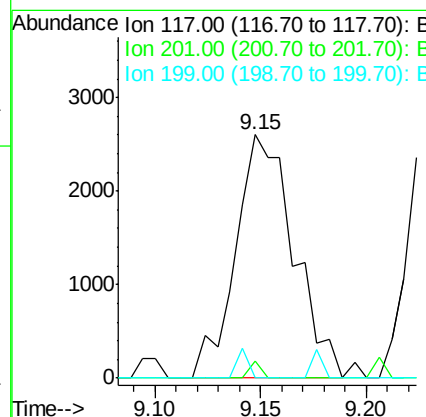
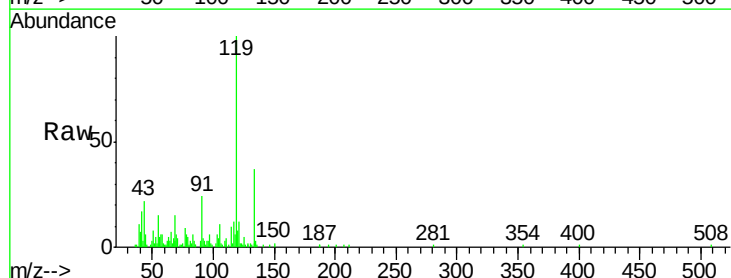
Instrument :
 BNA_G
 ClientSampleId :
 C02F4

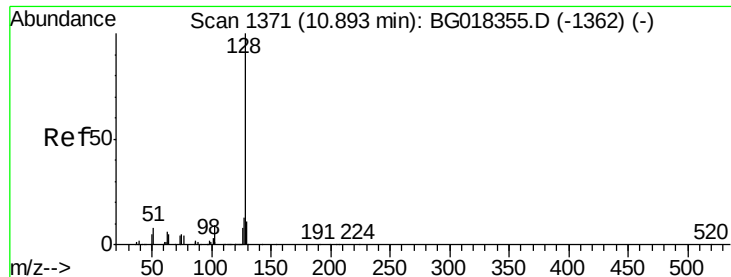
Tgt Ion	Ratio	Lower	Upper
105	100		
77	68.5	61.9	92.9
51	26.9	25.5	38.3



#17
 Hexachloroethane
 Concen: 1.34 ng/ul
 RT: 9.15 min Scan# 1074
 Delta R.T. 0.03 min
 Lab File: BG018371.D
 Acq: 11 Aug 2015 2:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	6.8	73.6	110.4#
199	0.0	48.6	72.8#

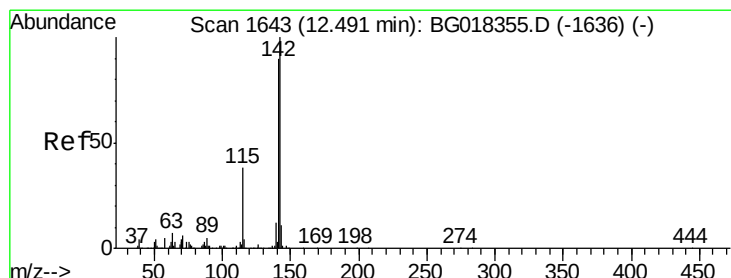
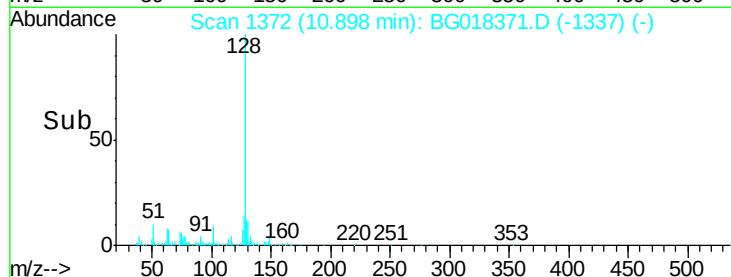
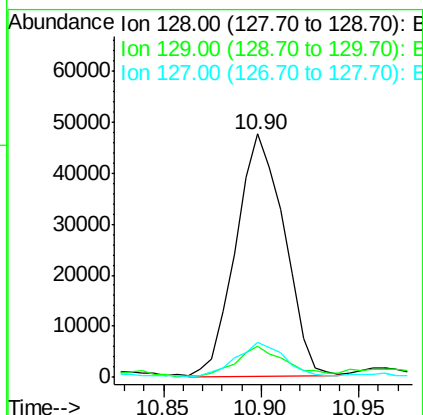
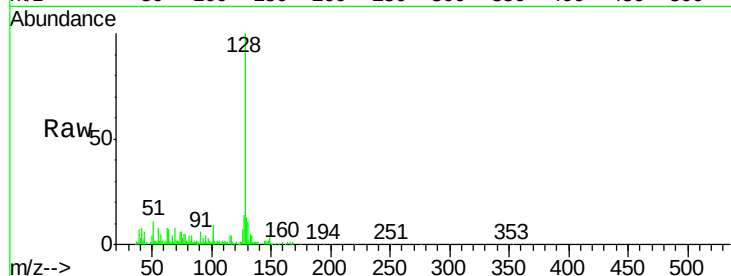




#28
Naphthalene
Concen: 2.89 ng/ul
RT: 10.90 min Scan# 1372
Delta R.T. 0.01 min
Lab File: BG018371.D
Acq: 11 Aug 2015 2:00

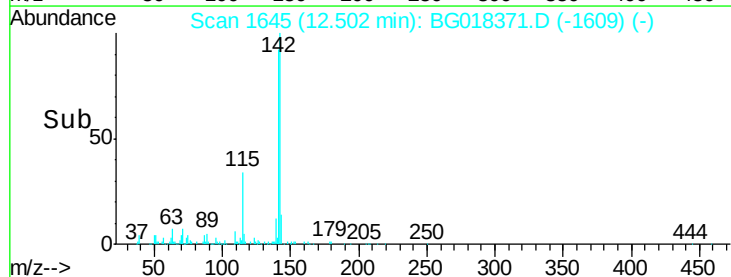
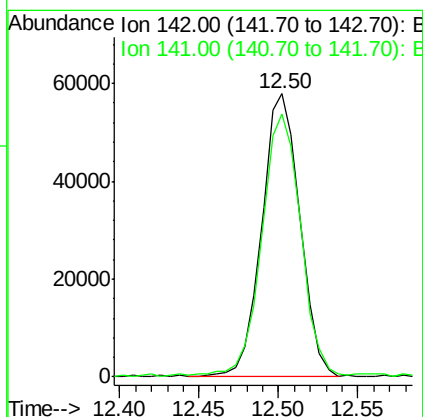
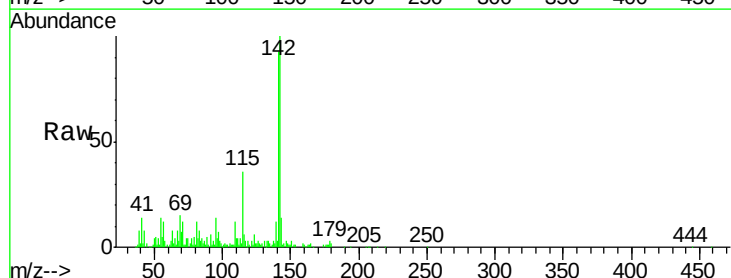
Instrument :
BNA_G
ClientSampleId :
C02F4

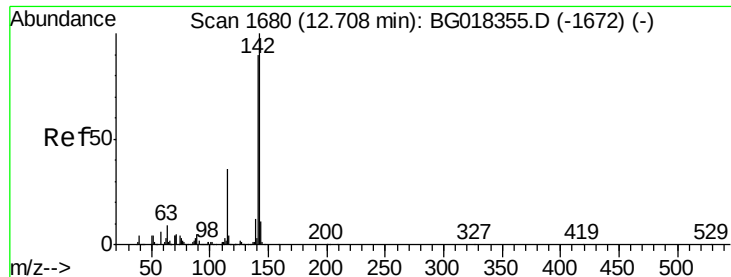
Tgt Ion:128 Resp: 81781
Ion Ratio Lower Upper
128 100
129 12.7 9.6 14.4
127 14.4 10.5 15.7



#34
2-Methylnaphthalene
Concen: 4.72 ng/ul
RT: 12.50 min Scan# 1645
Delta R.T. 0.01 min
Lab File: BG018371.D
Acq: 11 Aug 2015 2:00

Tgt Ion:142 Resp: 96777
Ion Ratio Lower Upper
142 100
141 92.7 78.0 117.0

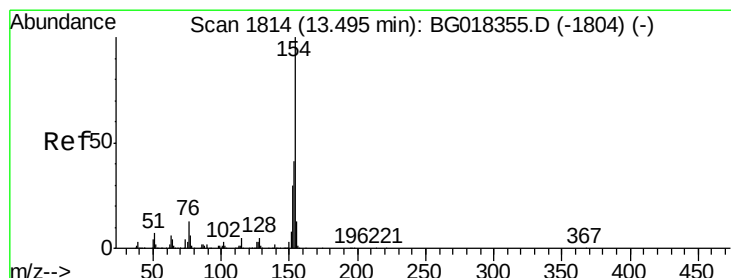
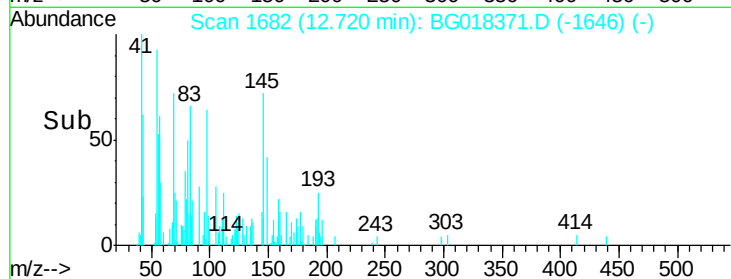
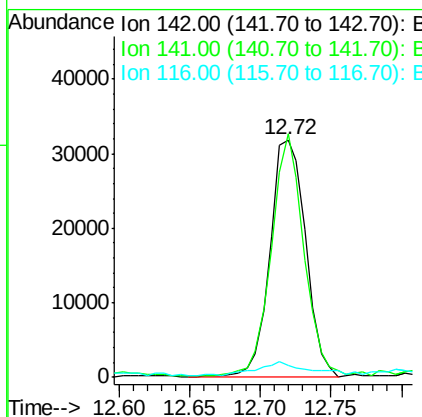
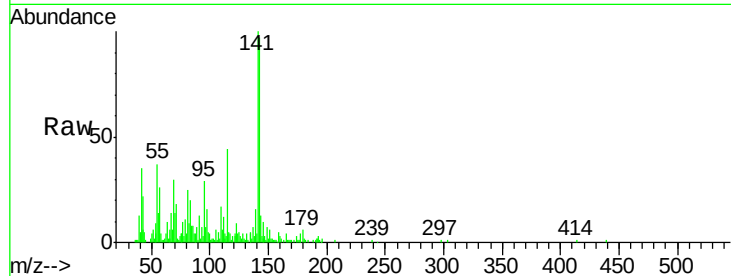




#35
 1-Methylnaphthalene
 Concen: 2.81 ng/ul
 RT: 12.72 min Scan# 1682
 Delta R.T. 0.01 min
 Lab File: BG018371.D
 Acq: 11 Aug 2015 2:00

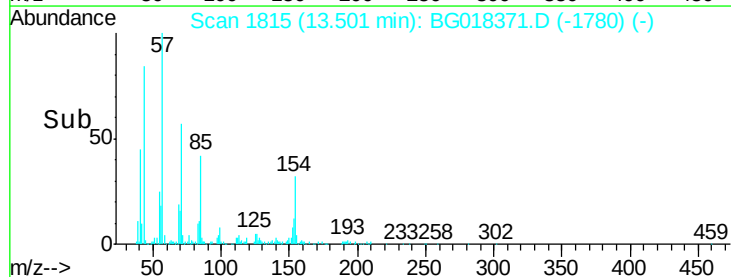
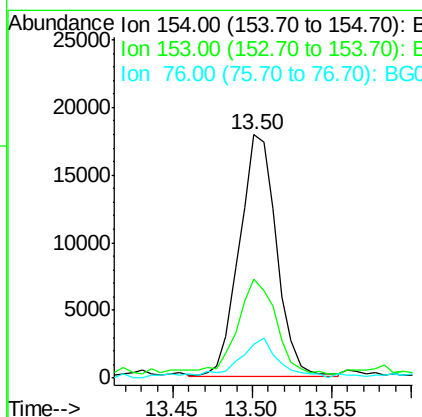
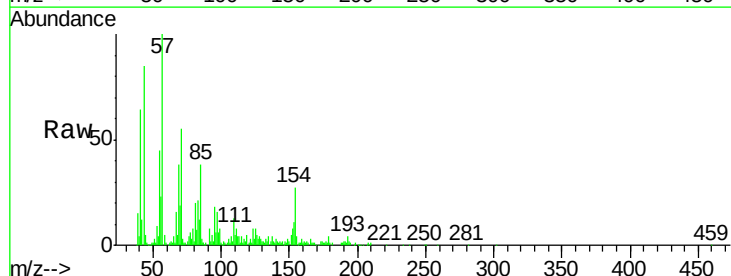
Instrument :
 BNA_G
 ClientSampleId :
 C02F4

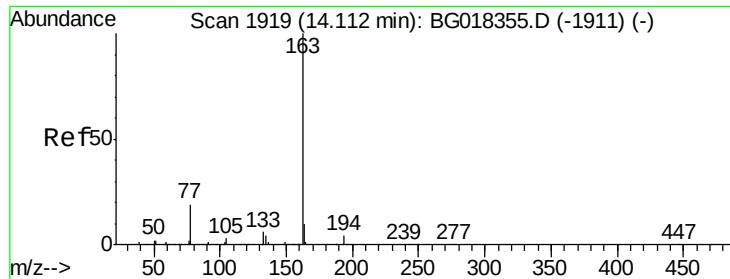
Tgt Ion:142 Resp: 56141
 Ion Ratio Lower Upper
 142 100
 141 102.6 77.1 115.7
 116 4.8 3.5 5.3



#41
 1,1'-Biphenyl
 Concen: 1.14 ng/ul
 RT: 13.50 min Scan# 1815
 Delta R.T. 0.01 min
 Lab File: BG018371.D
 Acq: 11 Aug 2015 2:00

Tgt Ion:154 Resp: 29099
 Ion Ratio Lower Upper
 154 100
 153 40.7 35.2 52.8
 76 13.8 10.6 16.0





#45

Dimethylphthalate

Concen: 7.79 ng/ul

RT: 14.12 min Scan# 1920

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

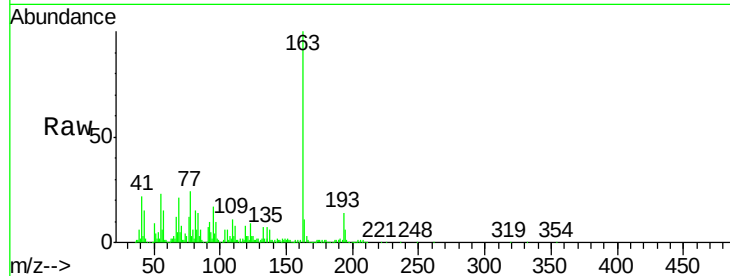
Tgt Ion:163 Resp: 197502

Ion Ratio Lower Upper

163 100

194 6.1 2.9 4.3#

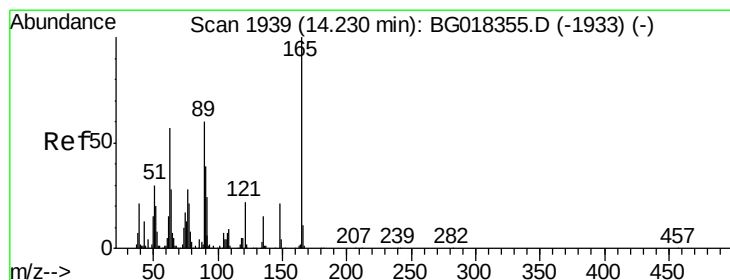
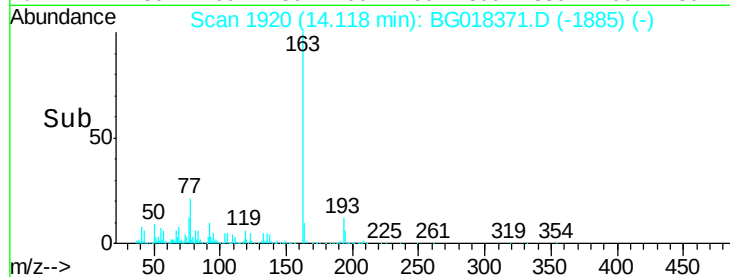
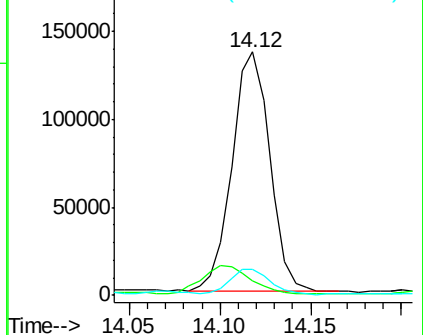
164 10.8 7.7 11.5



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



#46

2,6-Dinitrotoluene

Concen: 1.27 ng/ul

RT: 14.22 min Scan# 1938

Delta R.T. -0.00 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

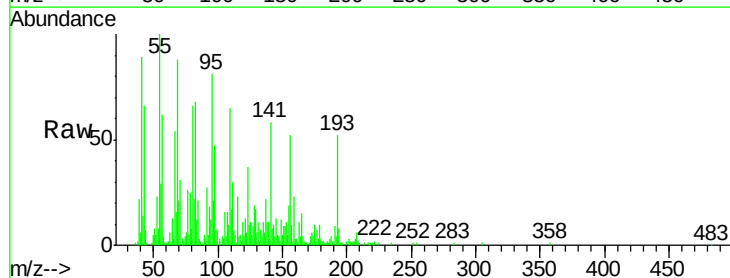
Tgt Ion:165 Resp: 6393

Ion Ratio Lower Upper

165 100

89 34.3 50.2 75.2#

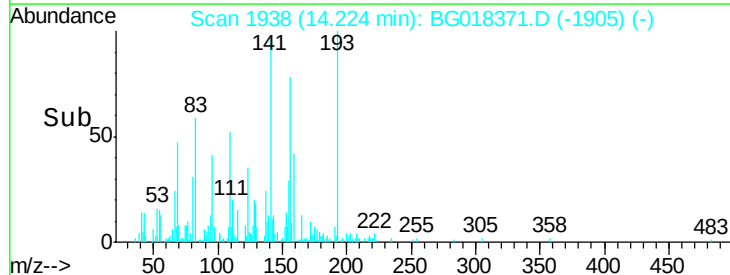
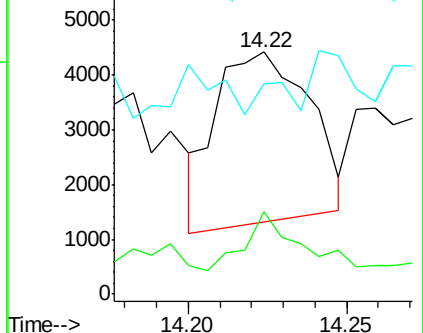
121 87.0 19.4 29.2#

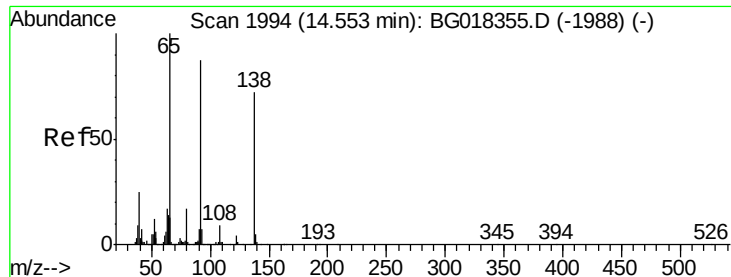


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 89.00 (88.70 to 89.70): BG

Ion 121.00 (120.70 to 121.70): E





#49

3-Nitroaniline

Concen: 1.40 ng/ul

RT: 14.58 min Scan# 1998

Delta R.T. 0.03 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

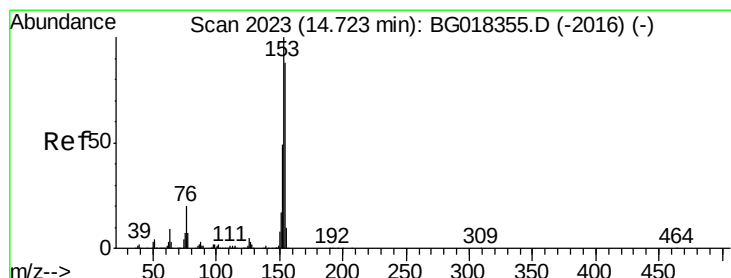
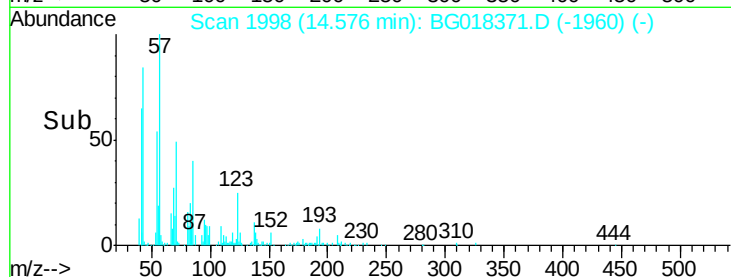
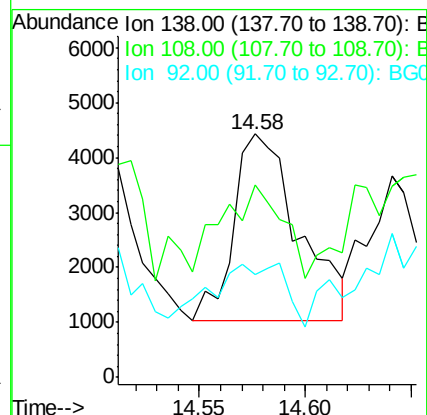
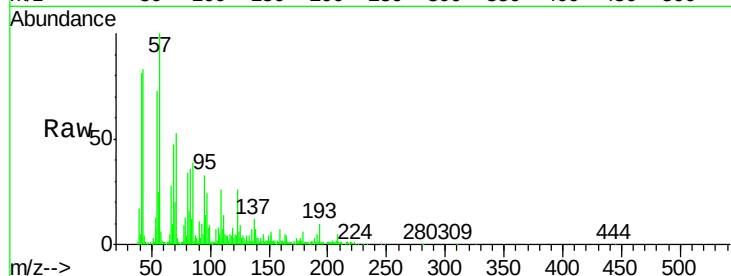
Tgt Ion:138 Resp: 7189

Ion Ratio Lower Upper

138 100

108 79.1 9.4 14.0#

92 42.4 102.8 154.2#



#50

Acenaphthene

Concen: 7.03 ng/ul

RT: 14.73 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

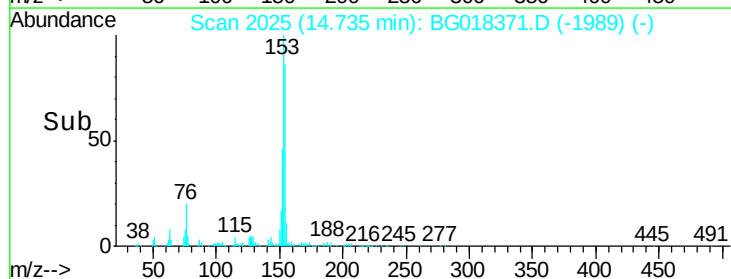
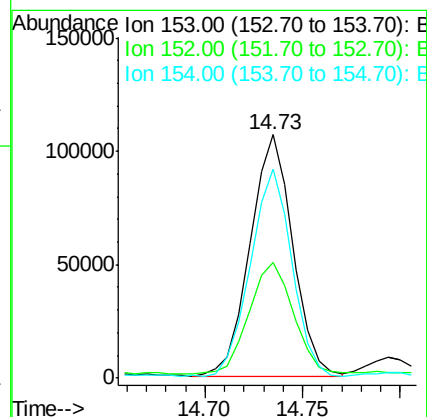
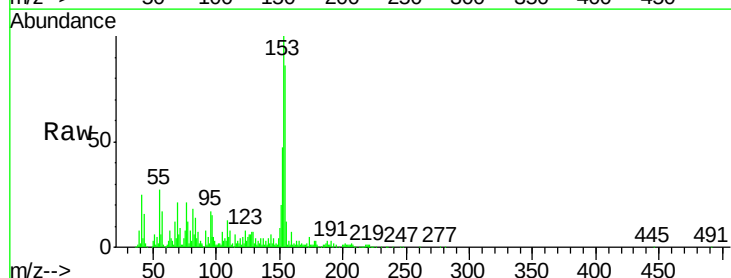
Tgt Ion:153 Resp: 160113

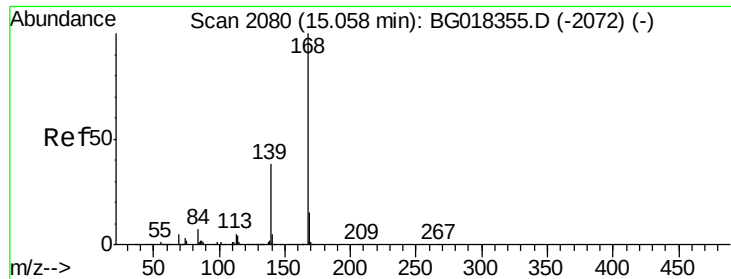
Ion Ratio Lower Upper

153 100

152 47.3 38.2 57.4

154 86.1 68.6 103.0





#54

Dibenzenofuran

Concen: 3.94 ng/ul

RT: 15.06 min Scan# 2081

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

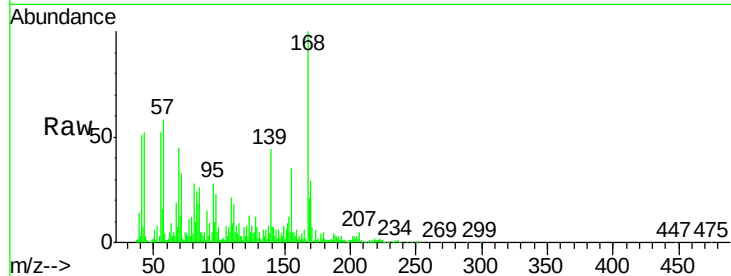
C02F4

Tgt Ion:168 Resp: 117309

Ion Ratio Lower Upper

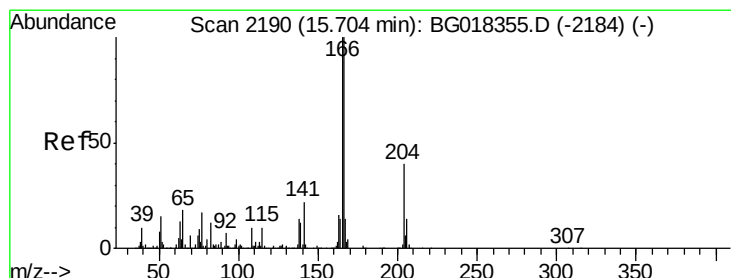
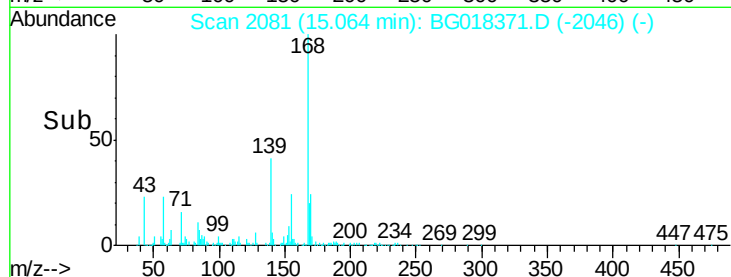
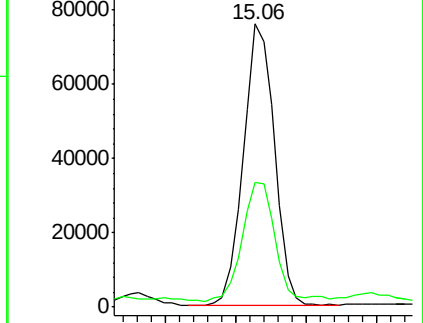
168 100

139 44.1 29.7 44.5



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 7.53 ng/ul

RT: 15.72 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

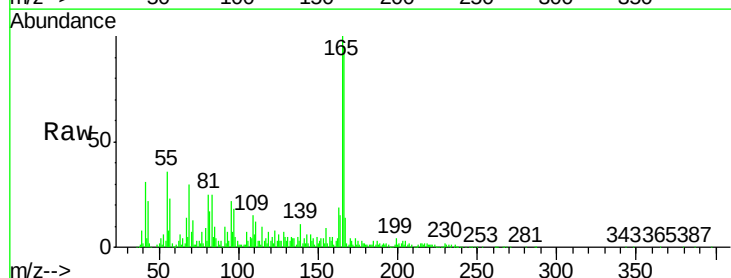
Tgt Ion:166 Resp: 192851

Ion Ratio Lower Upper

166 100

165 104.9 82.6 124.0

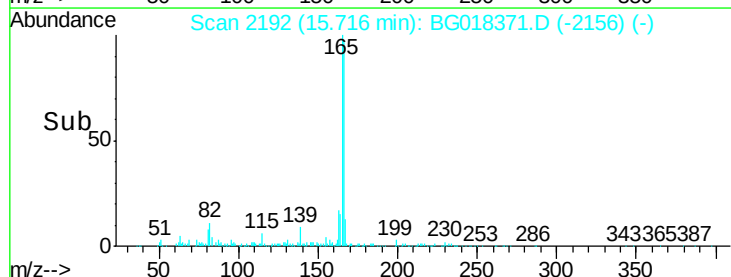
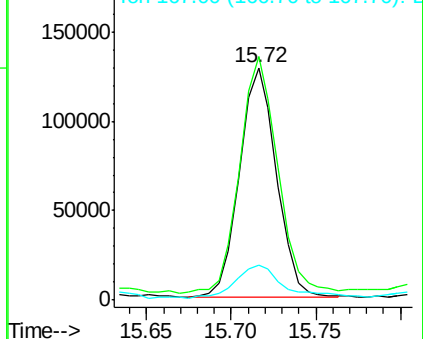
167 15.0 11.4 17.0

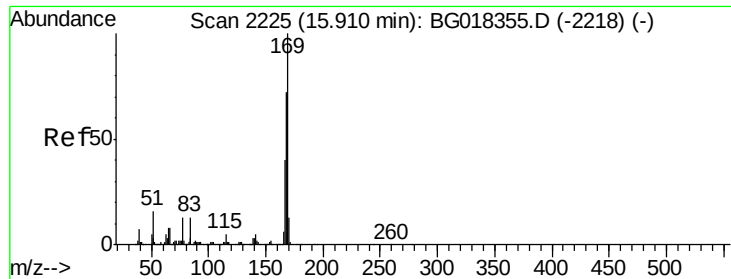


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#65

N-Nitrosodiphenylamine

Concen: 1.65 ng/ul

RT: 15.93 min Scan# 2228

Delta R.T. 0.02 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

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C02F4

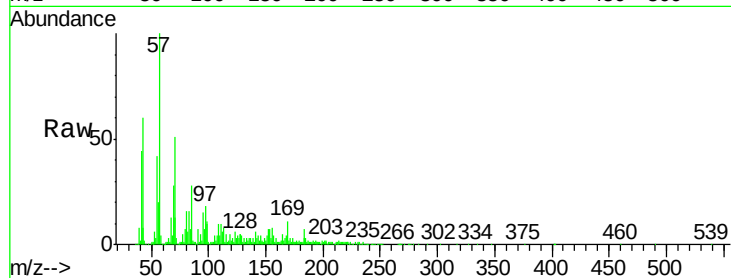
Tgt Ion:169 Resp: 29529

Ion Ratio Lower Upper

169 100

168 31.4 60.2 90.2#

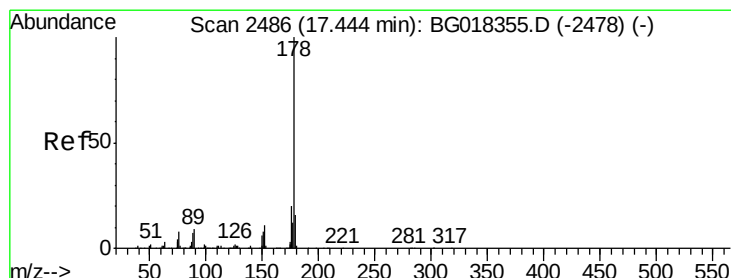
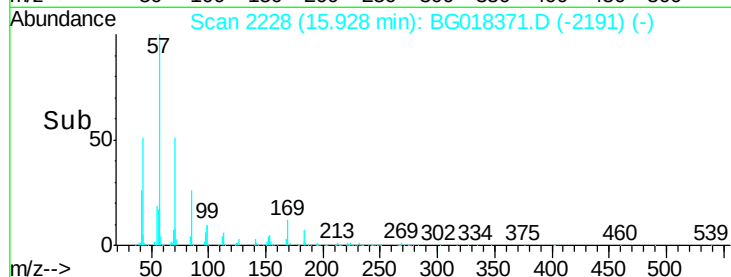
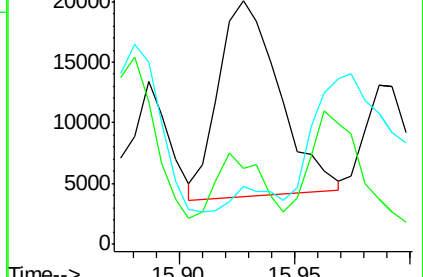
167 23.6 33.4 50.2#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 47.74 ng/ul

RT: 17.46 min Scan# 2489

Delta R.T. 0.02 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

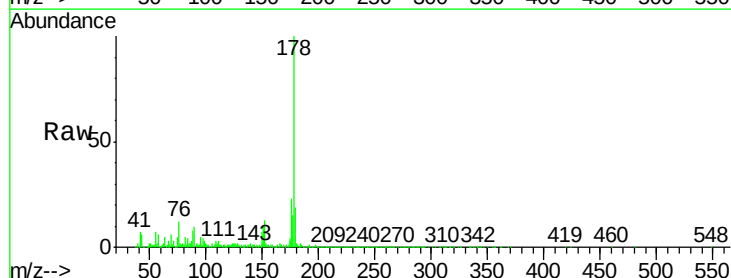
Tgt Ion:178 Resp: 1545355

Ion Ratio Lower Upper

178 100

179 19.2 13.7 20.5

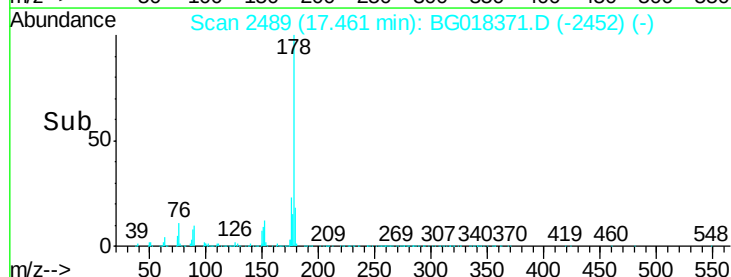
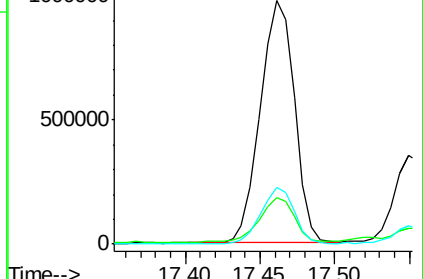
176 23.2 16.6 24.8

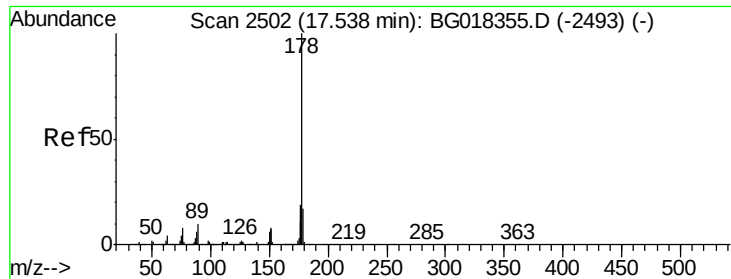


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 16.11 ng/ul

RT: 17.55 min Scan# 2504

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

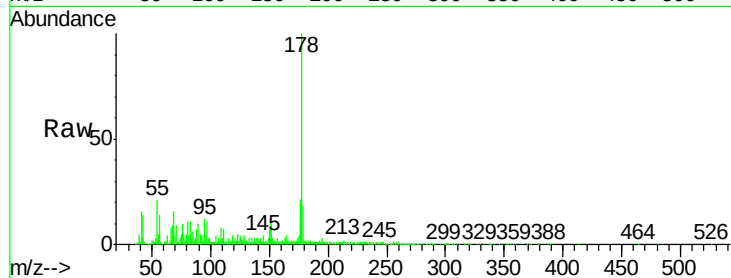
Tgt Ion:178 Resp: 531283

Ion Ratio Lower Upper

178 100

179 18.4 13.0 19.4

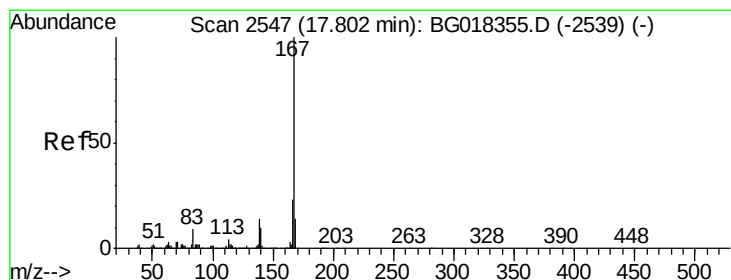
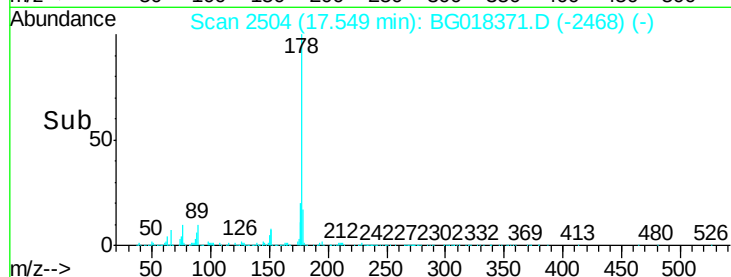
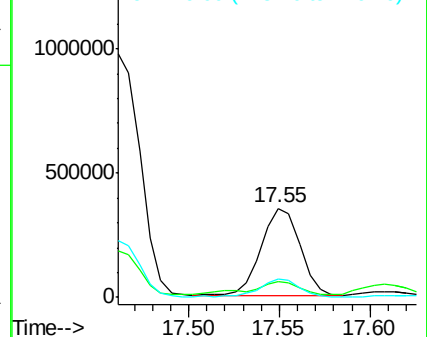
176 20.7 16.0 24.0



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



#75

Carbazole

Concen: 6.37 ng/ul

RT: 17.81 min Scan# 2549

Delta R.T. 0.02 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

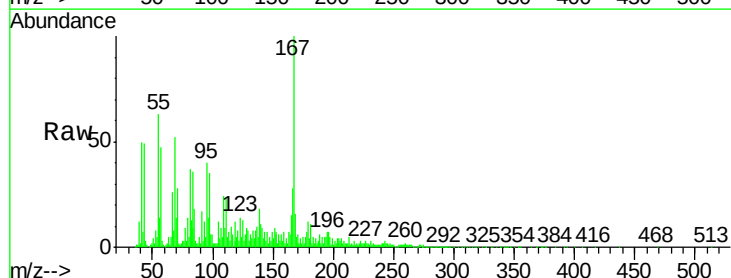
Tgt Ion:167 Resp: 184140

Ion Ratio Lower Upper

167 100

166 27.7 18.9 28.3

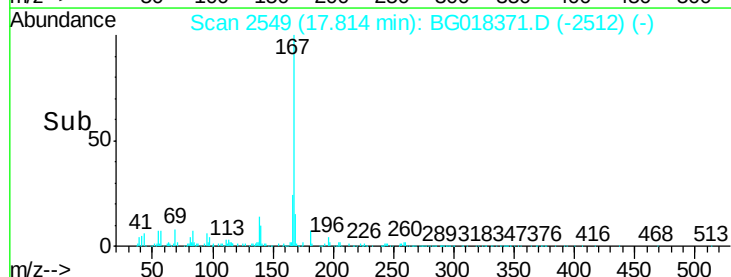
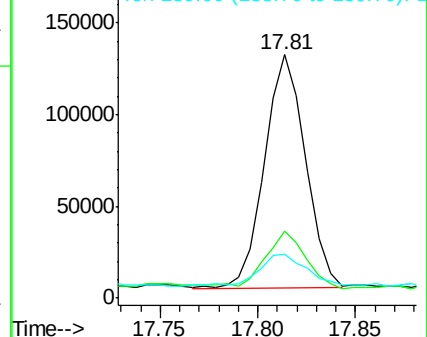
139 18.2 10.1 15.1#

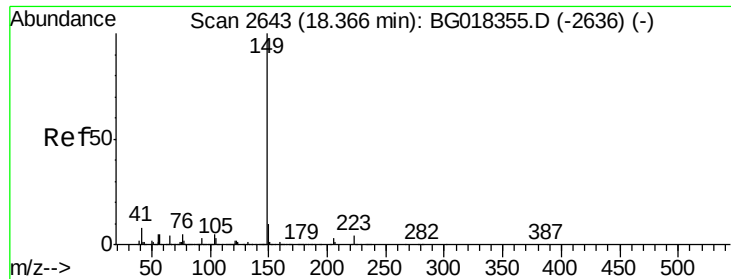


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Di-n-butylphthalate

Concen: 3.26 ng/ul

RT: 18.37 min Scan# 2644

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

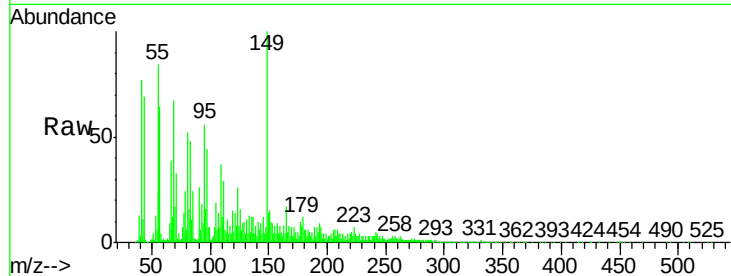
Tgt Ion:149 Resp: 123337

Ion Ratio Lower Upper

149 100

150 14.1 7.5 11.3#

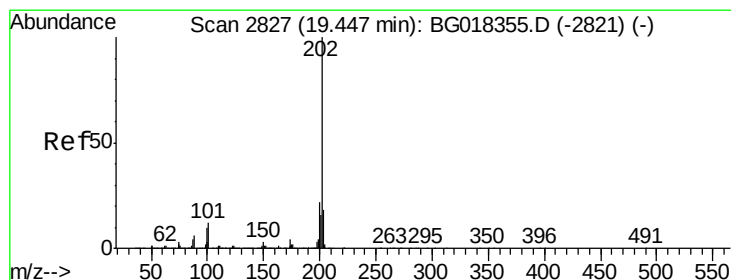
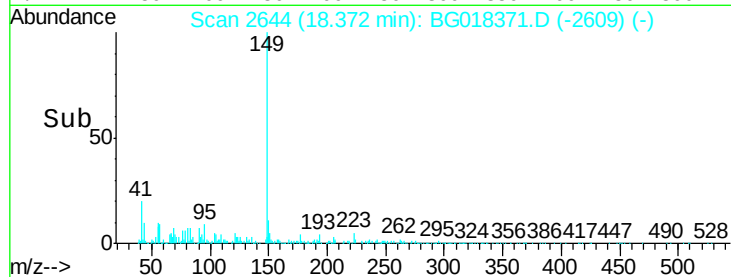
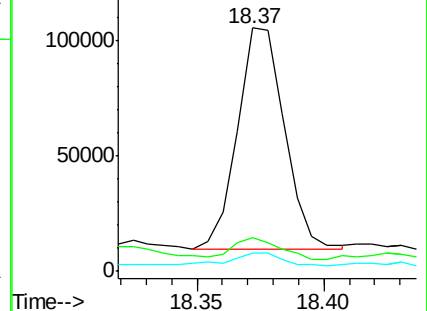
104 7.3 4.3 6.5#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 61.64 ng/ul

RT: 19.47 min Scan# 2831

Delta R.T. 0.03 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

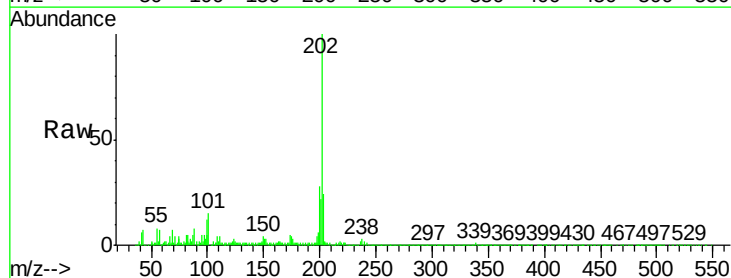
Tgt Ion:202 Resp: 2130980

Ion Ratio Lower Upper

202 100

101 15.1 9.7 14.5#

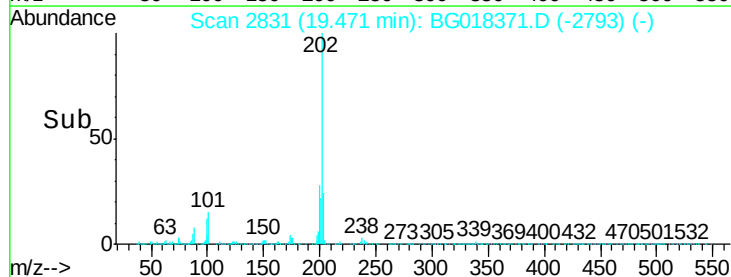
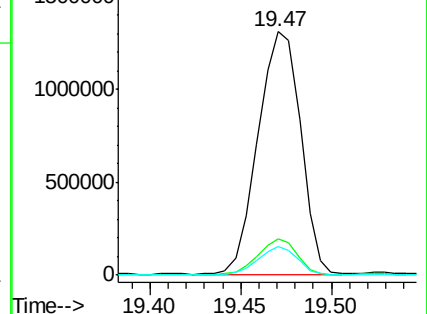
100 11.8 7.8 11.8#

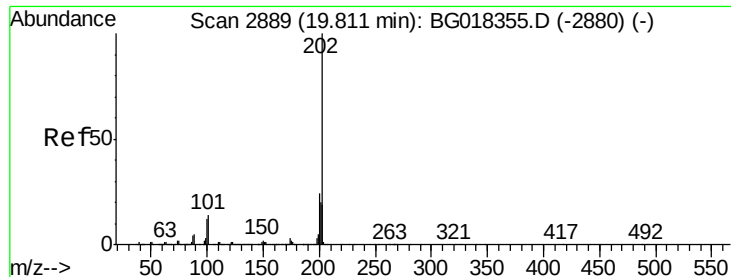


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 55.32 ng/ul

RT: 19.83 min Scan# 2893

Delta R.T. 0.03 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

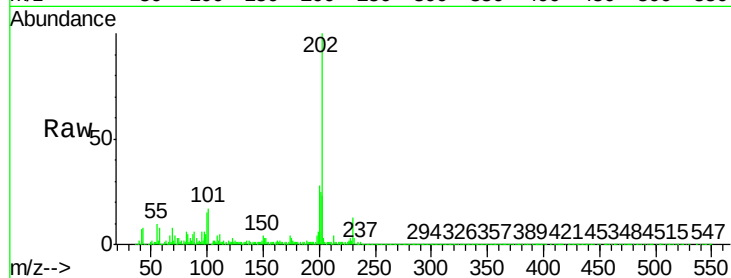
Tgt Ion:202 Resp: 1978778

Ion Ratio Lower Upper

202 100

101 16.8 11.0 16.4#

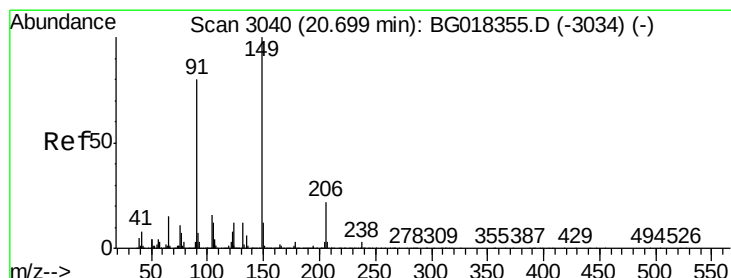
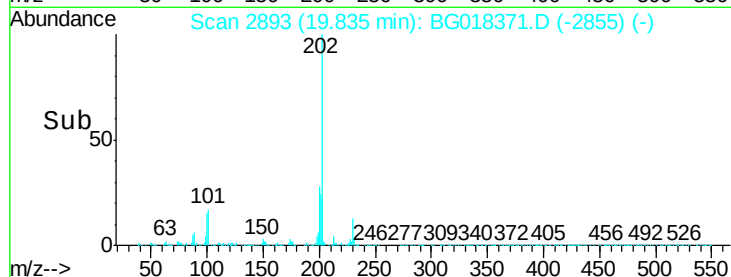
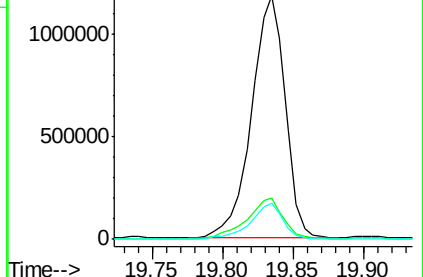
100 15.0 9.8 14.6#



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): E



#81

Butylbenzylphthalate

Concen: 2.39 ng/ul

RT: 20.71 min Scan# 3042

Delta R.T. 0.01 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

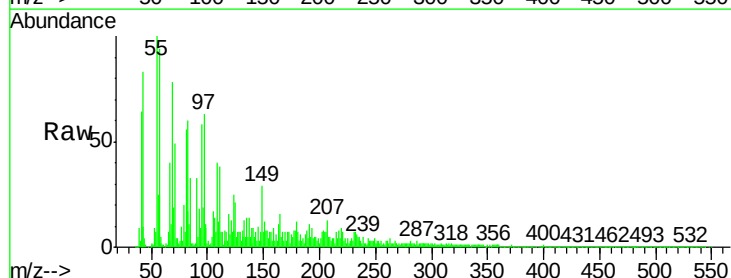
Tgt Ion:149 Resp: 36220

Ion Ratio Lower Upper

149 100

91 113.2 57.9 86.9#

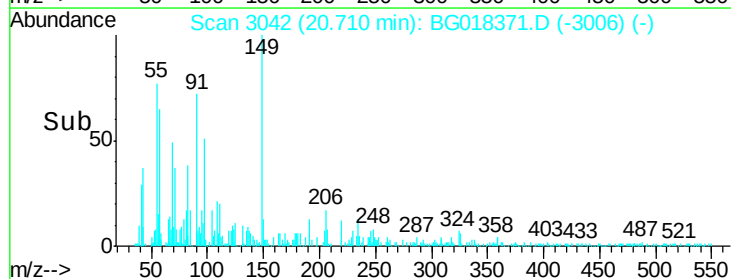
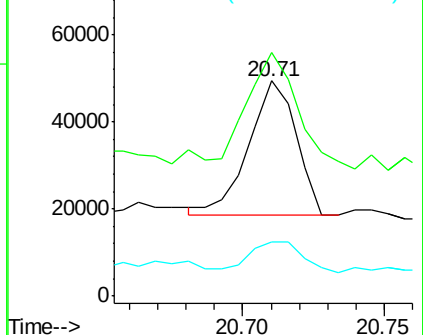
206 25.4 17.9 26.9

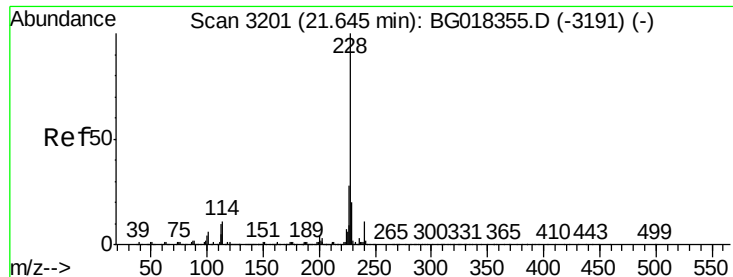


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): E

Ion 206.00 (205.70 to 206.70): E





#83

Benzo(a)anthracene

Concen: 35.14 ng/ul

RT: 21.67 min Scan# 3206

Delta R.T. 0.03 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

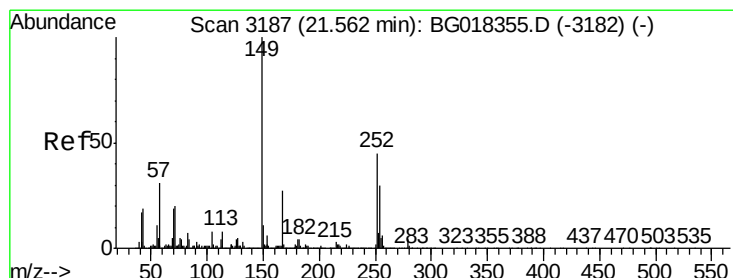
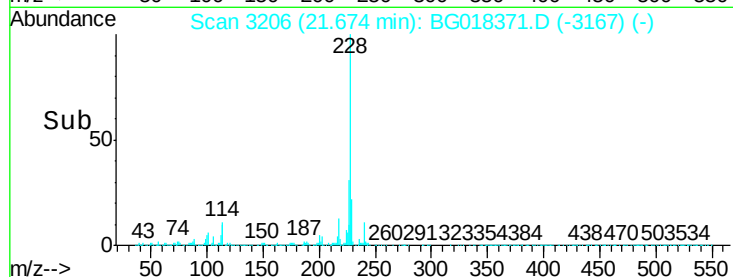
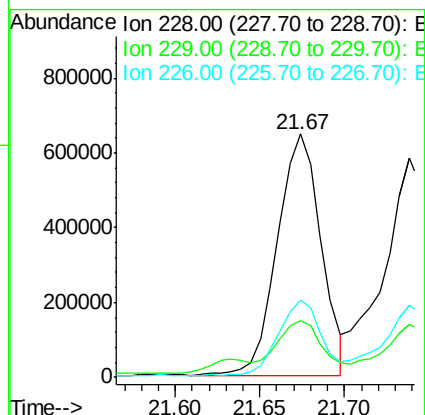
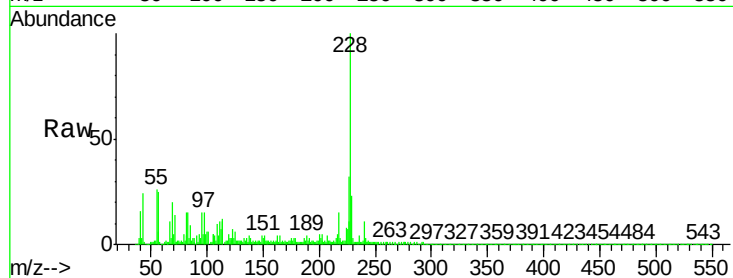
Tgt Ion:228 Resp: 1152390

Ion Ratio Lower Upper

228 100

229 23.5 15.5 23.3#

226 31.9 22.1 33.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 37.95 ng/ul

RT: 21.58 min Scan# 3190

Delta R.T. 0.02 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

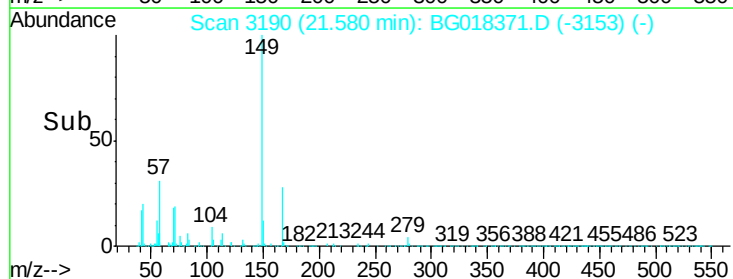
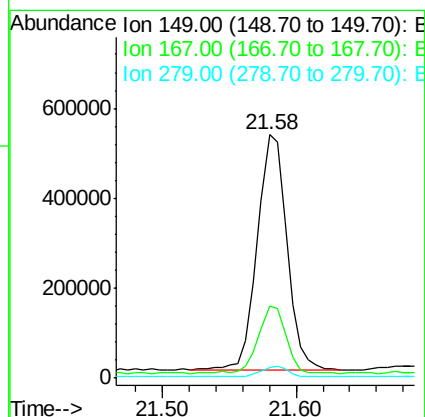
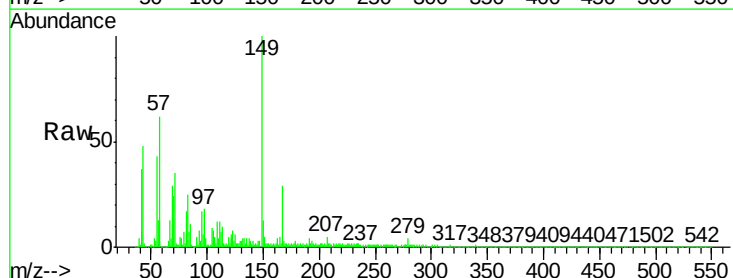
Tgt Ion:149 Resp: 811208

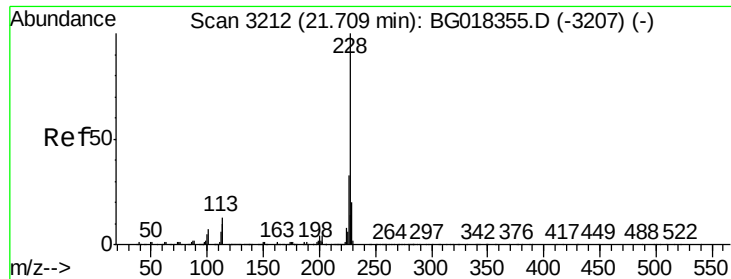
Ion Ratio Lower Upper

149 100

167 29.5 22.2 33.2

279 4.4 2.8 4.2#





#85

Chrysene

Concen: 36.19 ng/ul

RT: 21.74 min Scan# 3217

Delta R.T. 0.03 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

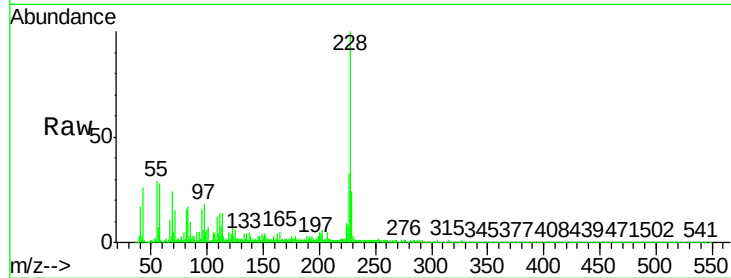
Tgt Ion:228 Resp: 1109848

Ion Ratio Lower Upper

228 100

226 33.0 26.5 39.7

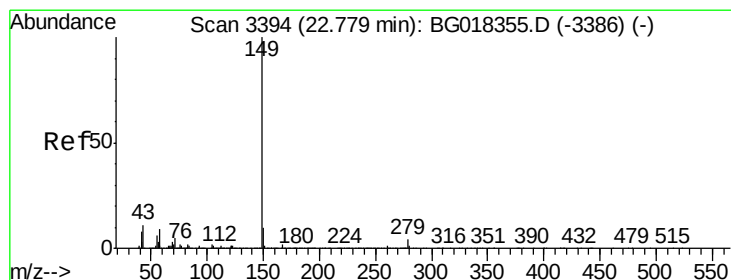
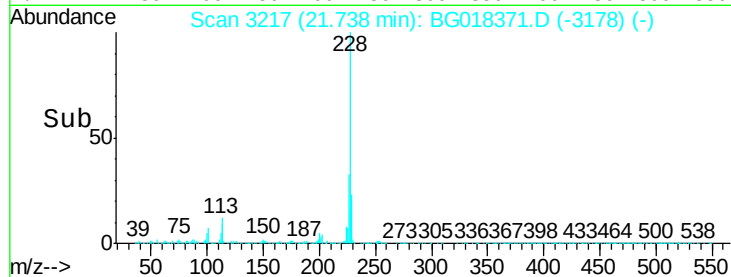
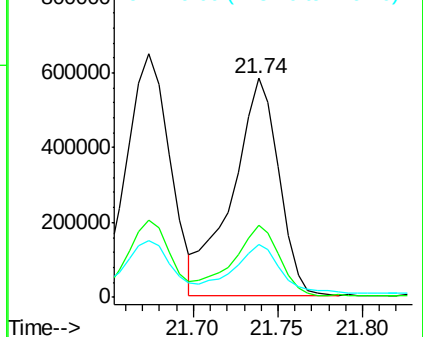
229 24.3 16.9 25.3



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



#87

Di-n-octyl phthalate

Concen: 2.30 ng/ul

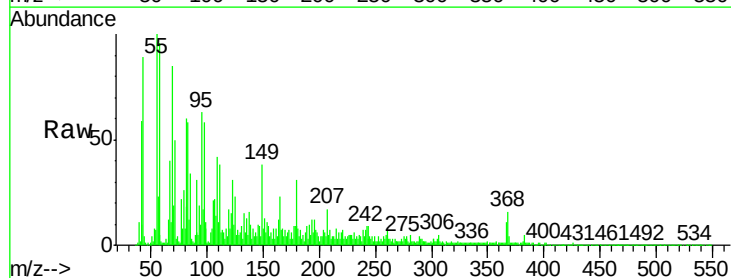
RT: 22.81 min Scan# 3400

Delta R.T. 0.04 min

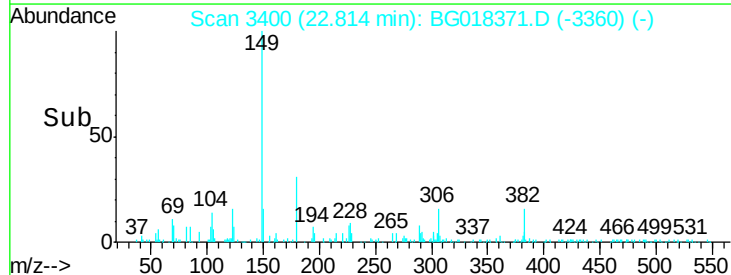
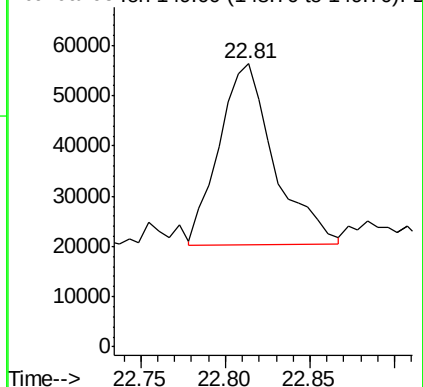
Lab File: BG018371.D

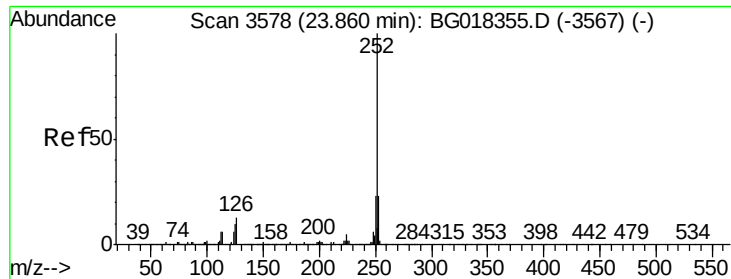
Acq: 11 Aug 2015 2:00

Tgt Ion:149 Resp: 82119



Abundance Ion 149.00 (148.70 to 149.70): E





#88

Benzo(b)fluoranthene

Concen: 38.19 ng/ul

RT: 23.92 min Scan# 3588

Delta R.T. 0.07 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

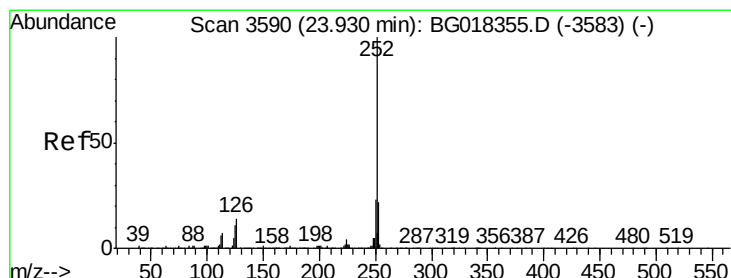
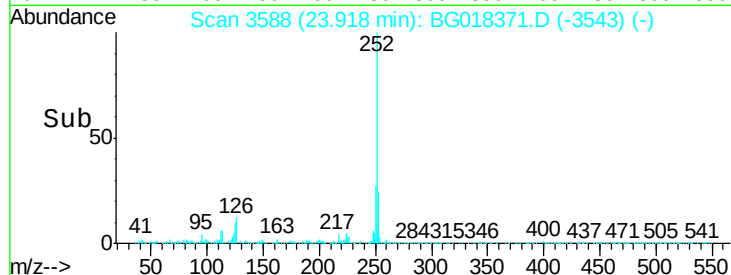
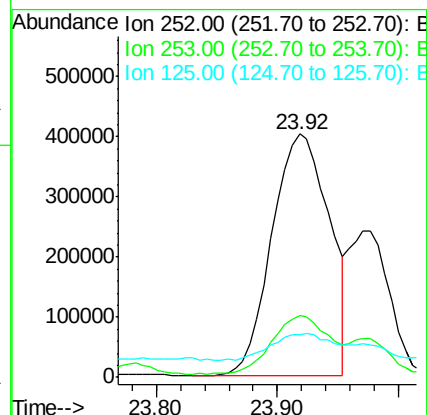
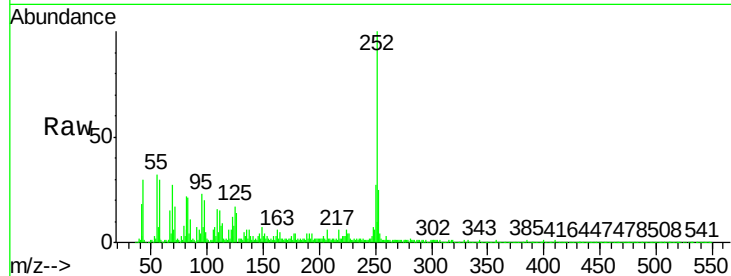
Tgt Ion:252 Resp: 1325849

Ion Ratio Lower Upper

252 100

253 25.2 18.1 27.1

125 17.4 8.3 12.5#



#89

Benzo(k)fluoranthene

Concen: 39.67 ng/ul

RT: 23.92 min Scan# 3588

Delta R.T. -0.00 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

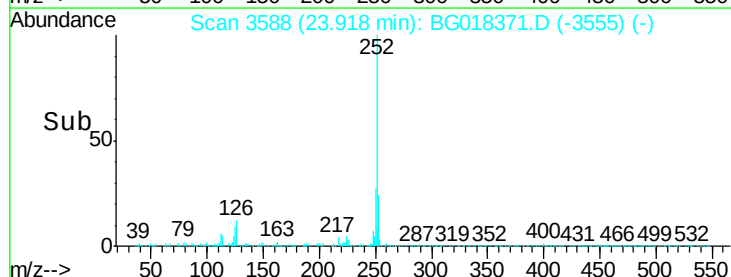
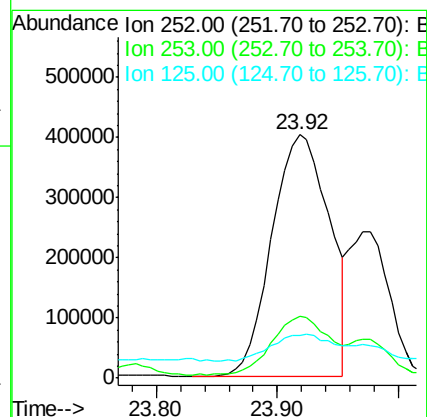
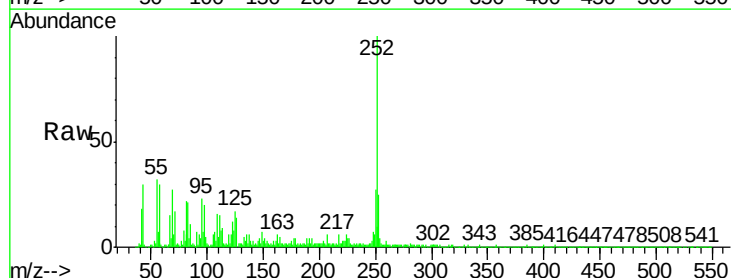
Tgt Ion:252 Resp: 1325849

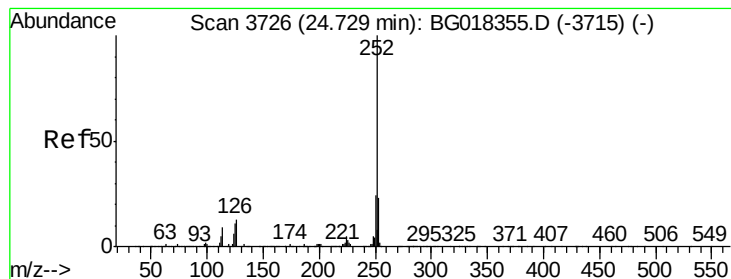
Ion Ratio Lower Upper

252 100

253 25.2 17.8 26.6

125 17.4 9.0 13.4#





#91

Benzo(a)pyrene

Concen: 30.26 ng/ul

RT: 24.79 min Scan# 3737

Delta R.T. 0.07 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampled :

C02F4

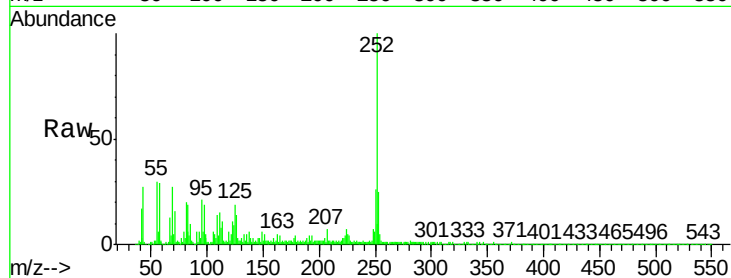
Tgt Ion: 252 Resp: 998548

Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

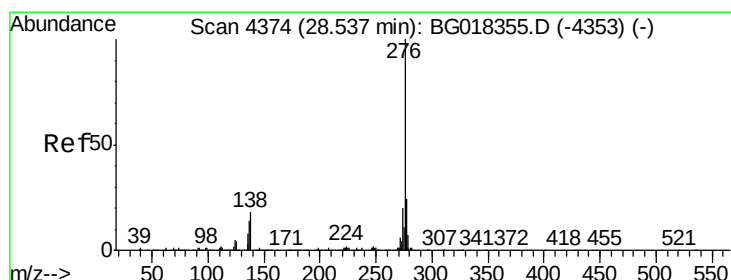
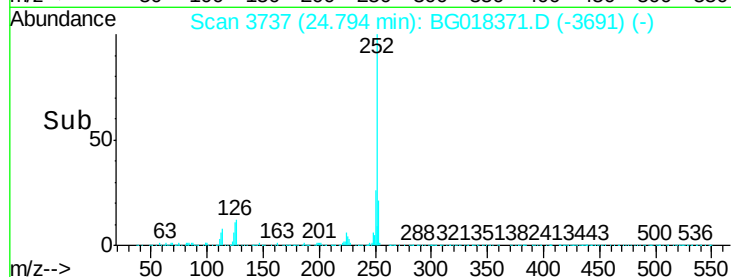
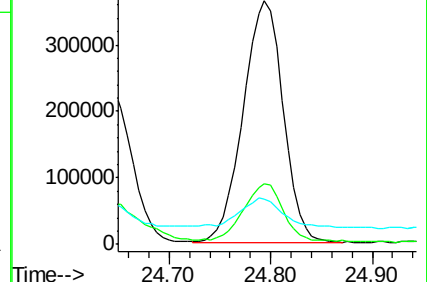
125 18.6 10.2 15.2#



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 15.32 ng/ul

RT: 28.65 min Scan# 4394

Delta R.T. 0.13 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

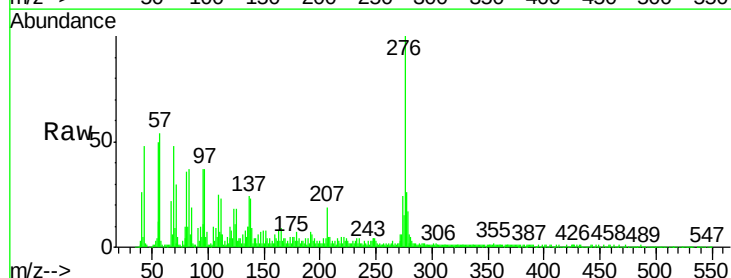
Tgt Ion: 276 Resp: 585169

Ion Ratio Lower Upper

276 100

138 23.0 15.8 23.6

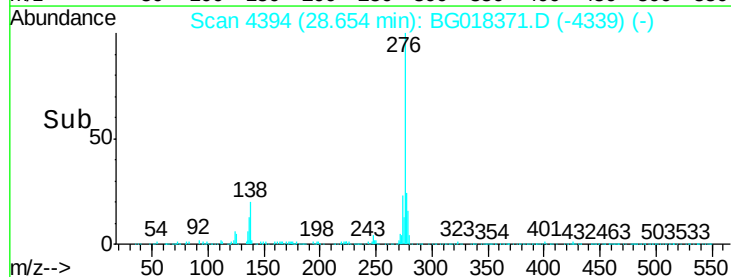
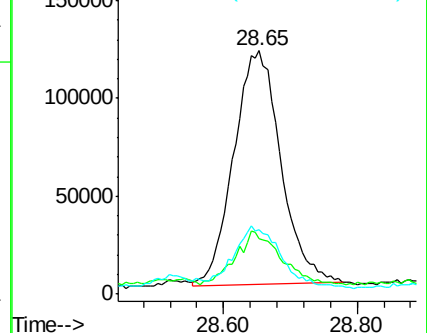
277 26.4 18.9 28.3

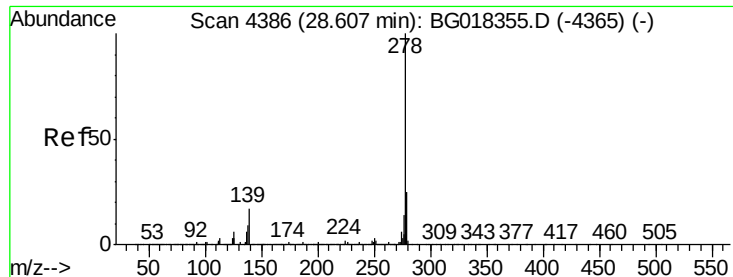


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 5.14 ng/ul

RT: 28.69 min Scan# 4401

Delta R.T. 0.09 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Instrument :

BNA_G

ClientSampleId :

C02F4

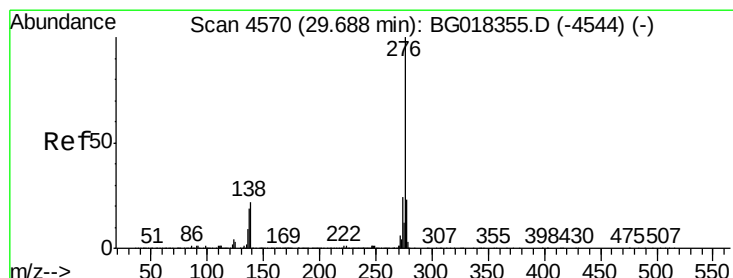
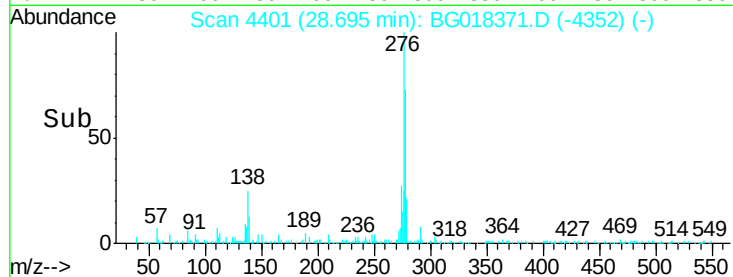
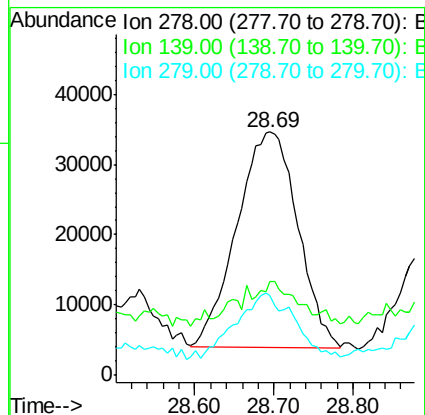
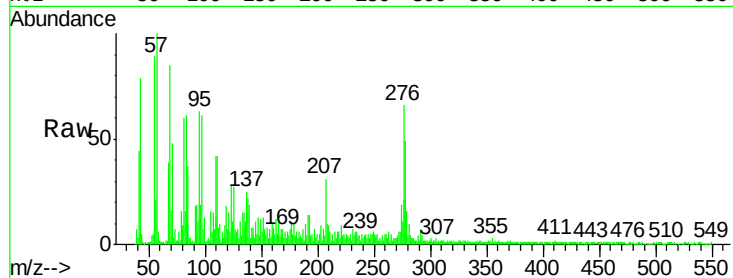
Tgt Ion:278 Resp: 163190

Ion Ratio Lower Upper

278 100

139 38.7 13.8 20.6#

279 32.8 17.8 26.8#



#94

Benzo(g,h,i)perylene

Concen: 15.12 ng/ul

RT: 29.81 min Scan# 4590

Delta R.T. 0.13 min

Lab File: BG018371.D

Acq: 11 Aug 2015 2:00

Tgt Ion:276 Resp: 484736

Ion Ratio Lower Upper

276 100

138 25.4 16.5 24.7#

277 27.6 19.0 28.6

