

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052616\
 Data File : BG022093.D
 Acq On : 26 May 2016 23:09
 Operator : UM/SJ
 Sample : H3201-05
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BCZK0

Quant Time: May 27 05:51:51 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 27 05:50:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	42027	20.00	ng/ul	0.00
18) Naphthalene-d8	10.98	136	180648	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.81	164	100880	20.00	ng/ul	0.03
61) Phenanthrene-d10	17.53	188	174567	20.00	ng/ul	0.00
75) Chrysene-d12	21.84	240	228941	20.00	ng/ul	0.04
83) Perylene-d12	25.24	264	183250	20.00	ng/ul	0.11

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.52	96	922	1.14	ng/uL	0.00
5) Phenol-d5	7.31	99	41393	10.90	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.47	67	25612	12.87	ng/ul	0.00
9) 2-Chlorophenol-d4	7.68	132	41418	13.05	ng/ul	0.00
13) 4-Methylphenol-d8	8.86	113	25339	7.87	ng/ul	0.00
19) Nitrobenzene-d5	9.32	128	19072	14.31	ng/ul	0.00
22) 2-Nitrophenol-d4	10.05	143	20401	14.14	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.60	165	33053	12.98	ng/ul	0.00
29) 4-Chloroaniline-d4	11.12	131	18354	6.62	ng/ul	0.00
43) Dimethylphthalate-d6	14.19	166	105263	13.89	ng/ul	0.01
46) Acenaphthylene-d8	14.51	160	138588	13.10	ng/ul	0.03
51) 4-Nitrophenol-d4	15.03	143	22260	17.06	ng/ul	0.04
57) Fluorene-d10	15.79	176	93495	13.18	ng/ul	0.03
62) 4,6-Dinitro-2-methylphenol	15.89	200	14968	16.40	ng/ul	0.00
70) Anthracene-d10	17.63	188	128350	15.32	ng/ul	0.00
76) Pyrene-d10	19.91	212	150376	11.65	ng/ul	0.01
87) Benzo(a)pyrene-d12	25.01	264	127576	15.00	ng/ul	0.11

Target Compounds

						Qvalue
17) Hexachloroethane	9.65	117	4982	3.99	ng/ul#	10
21) Isophorone	9.89	82	53627	9.33	ng/ul#	1
23) 2-Nitrophenol	10.08	139	10201	6.76	ng/ul#	1
32) Caprolactam	11.89	113	33589	33.54	ng/ul#	1
33) 4-Chloro-3-methylphenol	12.27	107	5742	2.16	ng/ul#	21
38) 2,4,6-Trichlorophenol	13.26	196	7468	3.70	ng/ul#	15
39) 2,4,5-Trichlorophenol	13.35	196	15221	7.10	ng/ul#	30
40) 1,1'-Biphenyl	13.64	154	57469	6.92	ng/ul#	85
42) 2-Nitroaniline	13.86	65	10972	7.63	ng/ul#	63
44) Dimethylphthalate	14.24	163	39613	5.20	ng/ul#	1
45) 2,6-Dinitrotoluene	14.35	165	10977	6.72	ng/ul#	27
48) 3-Nitroaniline	14.71	138	13045	8.34	ng/ul#	34
50) 2,4-Dinitrophenol	14.95	184	1699	2.69	ng/ul#	1
52) 4-Nitrophenol	15.11	109	1683	2.29	ng/ul#	1
53) Dibenzofuran	15.18	168	22085	2.40	ng/ul#	26
60) 4-Nitroaniline	15.68	138	11348	6.61	ng/ul	95
63) 4,6-Dinitro-2-methylphenol	15.89	198	3850	4.08	ng/ul#	1
64) N-Nitrosodiphenylamine	16.02	169	108862	19.72	ng/ul#	44
74) Fluoranthene	19.57	202	15533	1.57	ng/ul#	68
77) Pyrene	19.94	202	140763	8.74	ng/ul	96
78) Butylbenzylphthalate	21.27	149	16958	2.22	ng/ul	86
79) 3,3'-Dichlorobenzidine	21.72	252	8735	2.03	ng/ul#	1
80) Benzo(a)anthracene	21.82	228	42137	3.14	ng/ul#	53

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Quant Title : SVOA CALIBRATION
QLast Update : Fri May 27 05:50:42 2016
Response via : Initial Calibration

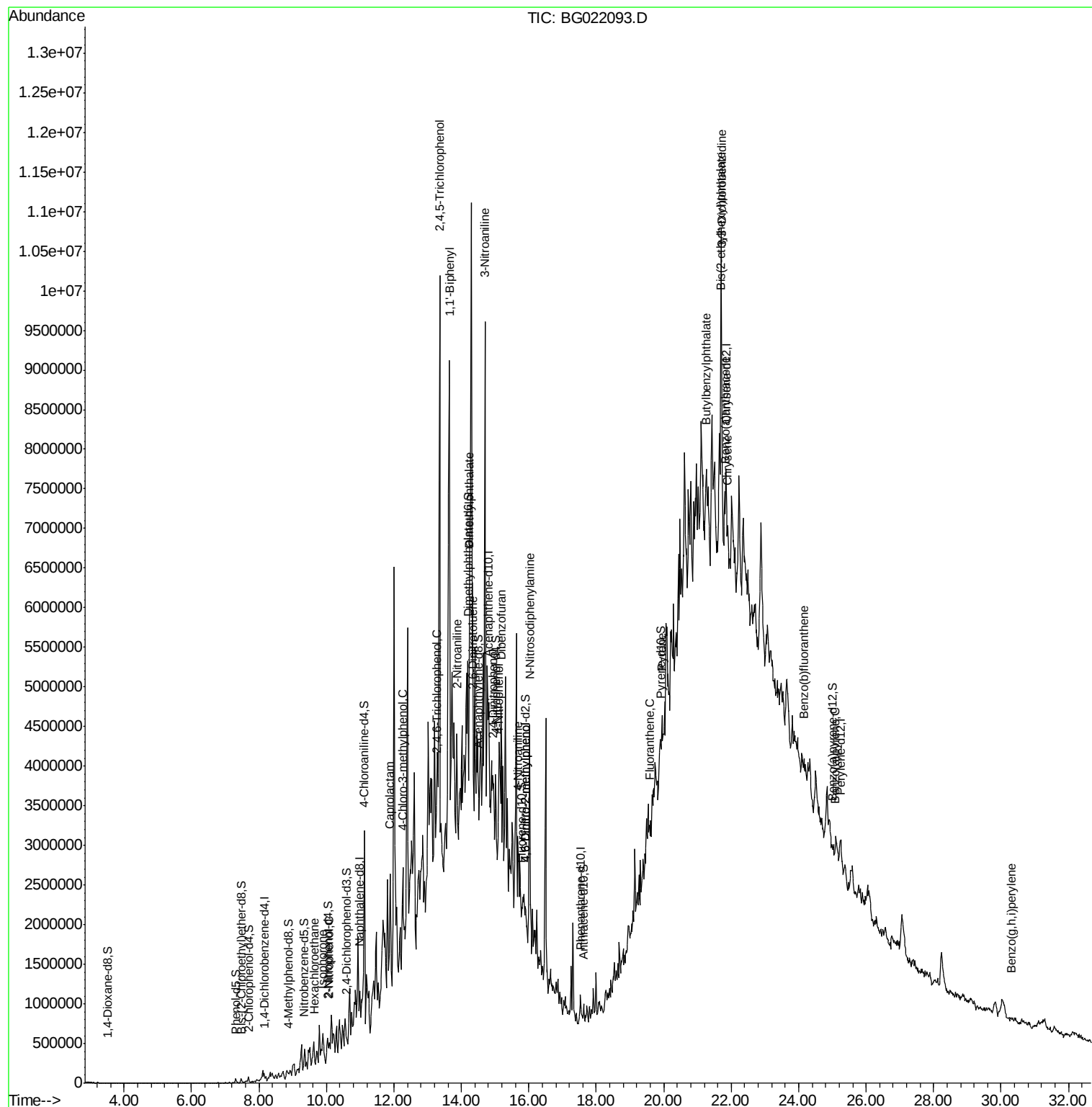
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) Bis(2-ethylhexyl)phthalate	21.70	149	1895206	174.44	ng/ul#	79
82) Chrysene	21.89	228	51130	3.97	ng/ul#	62
85) Benzo(b)fluoranthene	24.17	252	56110	5.23	ng/ul#	1
88) Benzo(a)pyrene	25.08	252	26225	2.53	ng/ul#	1
91) Benzo(g,h,i)perylene	30.30	276	22345	2.35	ng/ul#	66

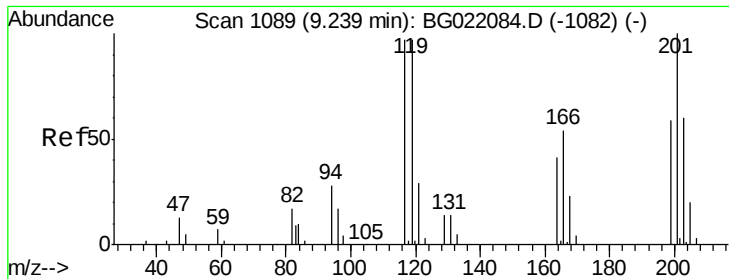
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#17

Hexachloroethane

Concen: 3.99 ng/ul

RT: 9.65 min Scan# 1160

Delta R.T. 0.41 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

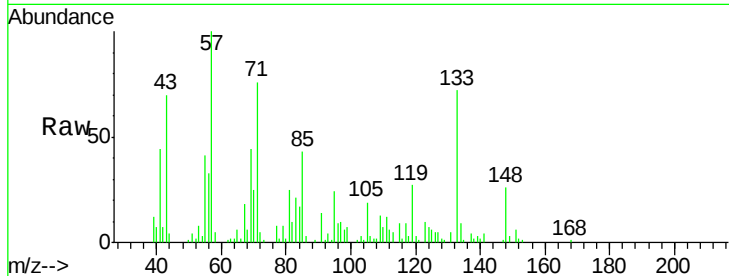
Tgt Ion: 117 Resp: 4982

Ion Ratio Lower Upper

117 100

201 0.0 76.8 115.2#

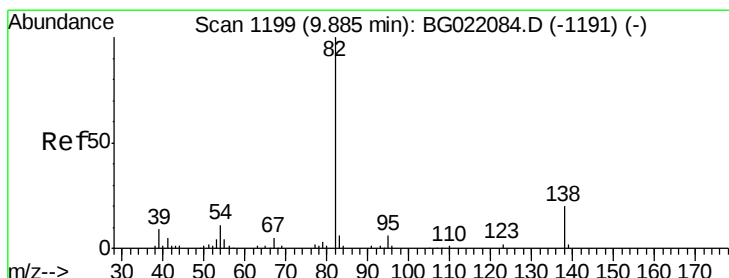
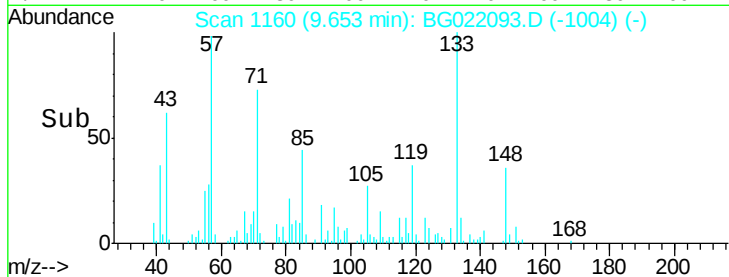
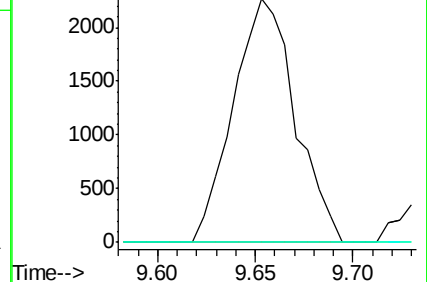
199 0.0 43.5 65.3#



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



#21

Isophorone

Concen: 9.33 ng/ul

RT: 9.89 min Scan# 1200

Delta R.T. 0.00 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

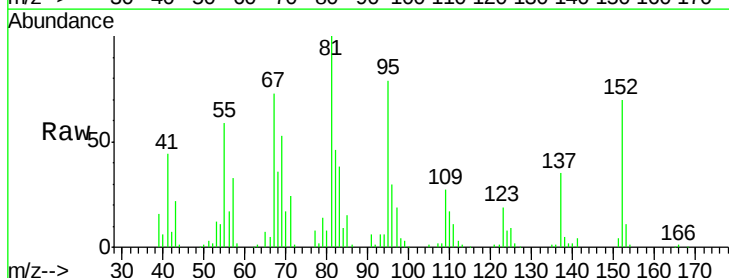
Tgt Ion: 82 Resp: 53627

Ion Ratio Lower Upper

82 100

95 169.4 5.1 7.7#

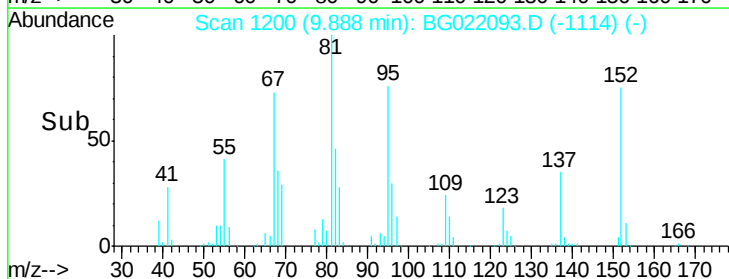
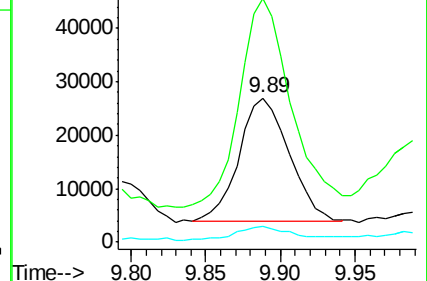
138 11.0 15.0 22.6#

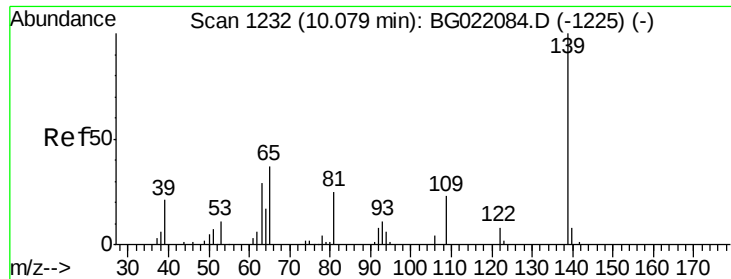


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

Ion 138.00 (137.70 to 138.70): E

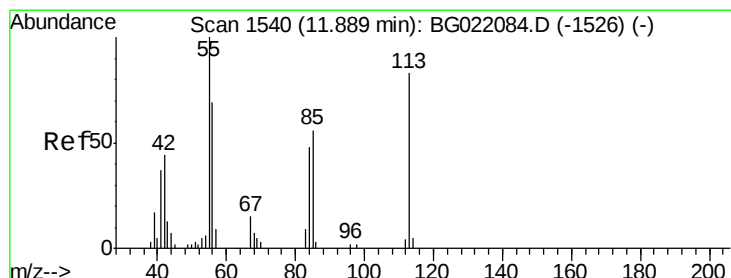
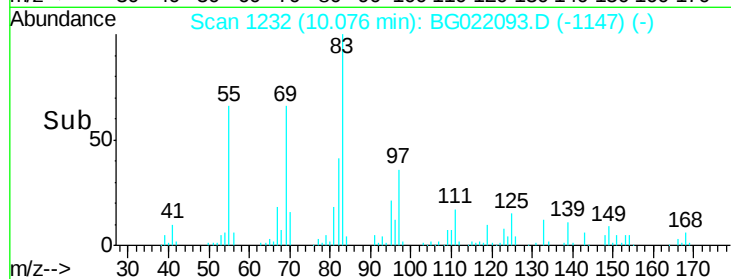
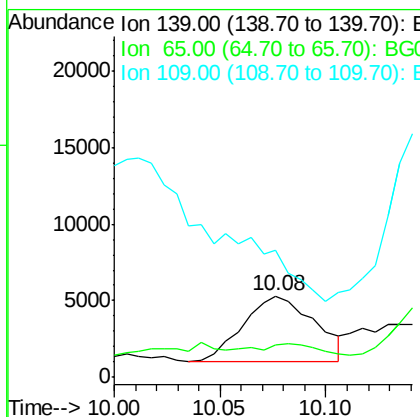
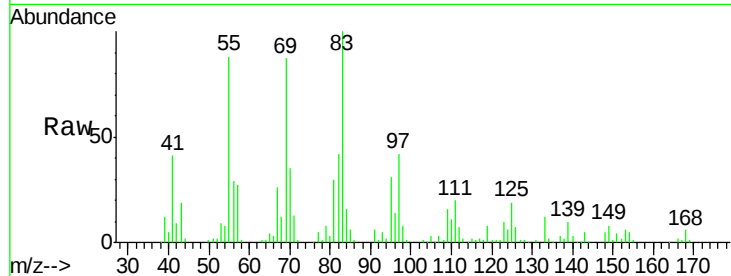




#23
2-Nitrophenol
Concen: 6.76 ng/ul
RT: 10.08 min Scan# 1232
Delta R.T. -0.00 min
Lab File: BG022093.D
Acq: 26 May 2016 23:09

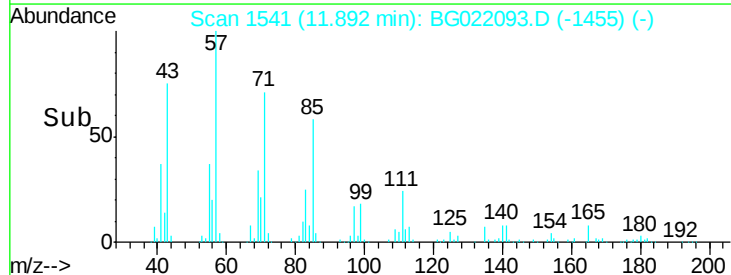
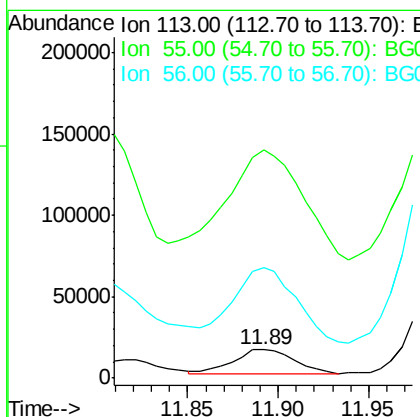
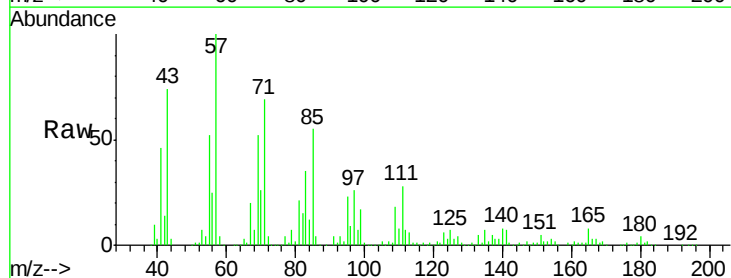
Instrument :
BNA_G
ClientSampleId :
BCZK0

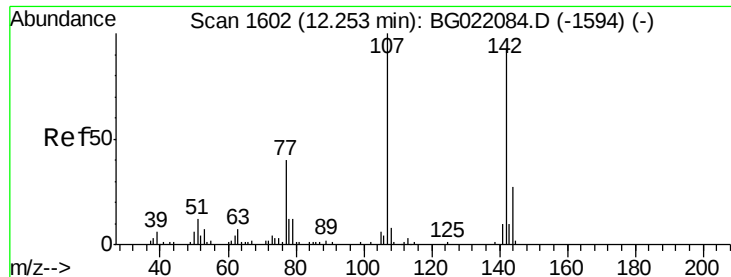
Tgt Ion:139 Resp: 10201
Ion Ratio Lower Upper
139 100
65 39.3 31.8 47.8
109 156.8 17.1 25.7#



#32
Caprolactam
Concen: 33.54 ng/ul
RT: 11.89 min Scan# 1541
Delta R.T. 0.00 min
Lab File: BG022093.D
Acq: 26 May 2016 23:09

Tgt Ion:113 Resp: 33589
Ion Ratio Lower Upper
113 100
55 811.1 99.6 149.4#
56 392.2 66.4 99.6#

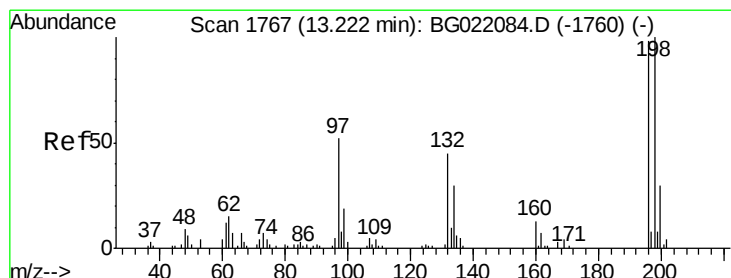
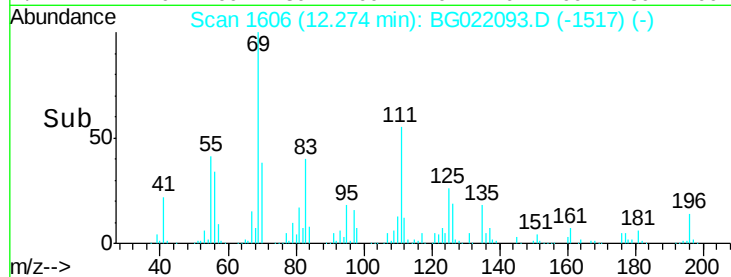
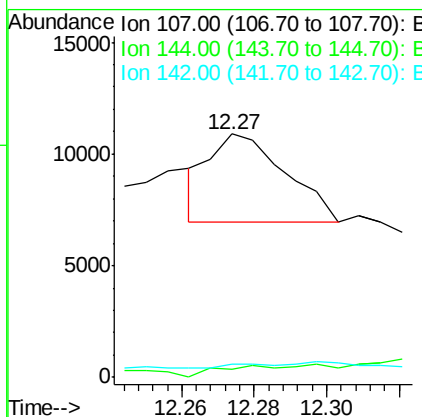
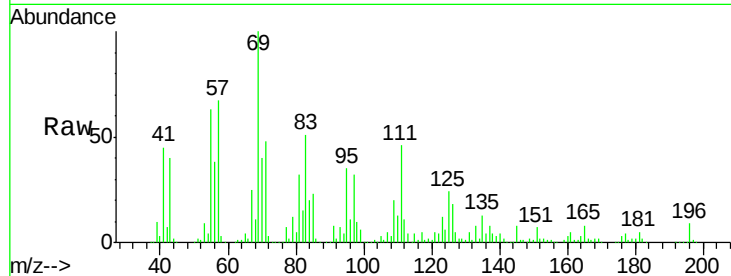




#33
 4-Chloro-3-methylphenol
 Concen: 2.16 ng/ul
 RT: 12.27 min Scan# 1606
 Delta R.T. 0.02 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

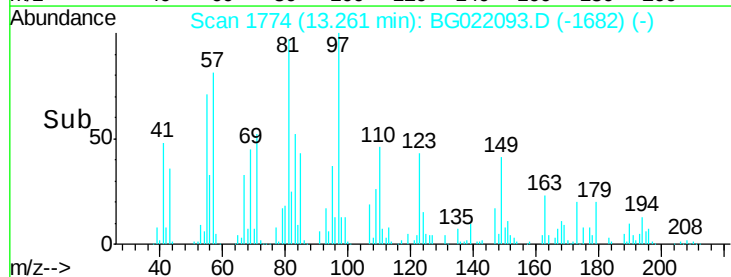
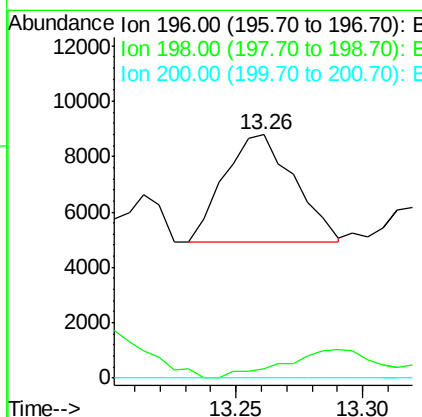
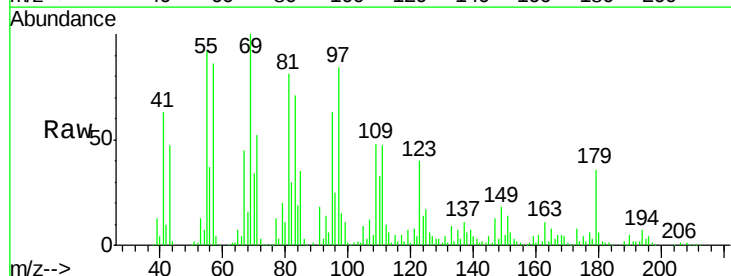
Instrument :
 BNA_G
 ClientSampled :
 BCZK0

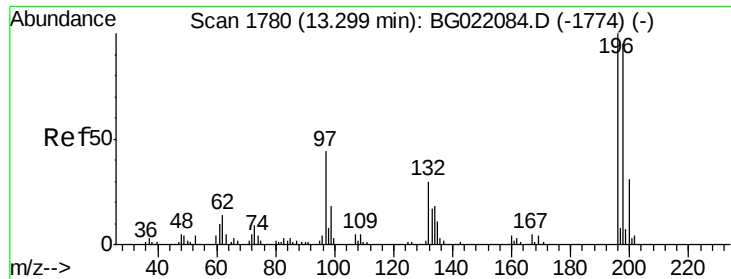
Tgt Ion:107 Resp: 5742
 Ion Ratio Lower Upper
 107 100
 144 3.2 22.7 34.1#
 142 5.6 71.6 107.4#



#38
 2,4,6-Trichlorophenol
 Concen: 3.70 ng/ul
 RT: 13.26 min Scan# 1774
 Delta R.T. 0.04 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

Tgt Ion:196 Resp: 7468
 Ion Ratio Lower Upper
 196 100
 198 3.8 77.4 116.0#
 200 0.0 26.6 39.8#

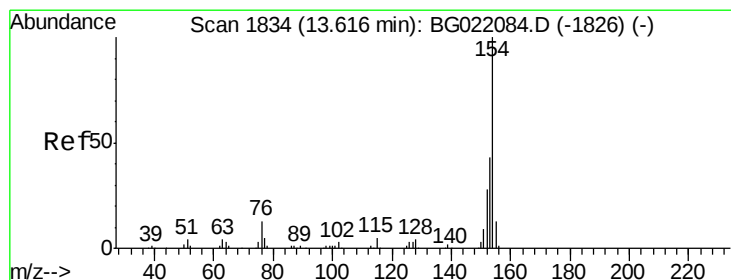
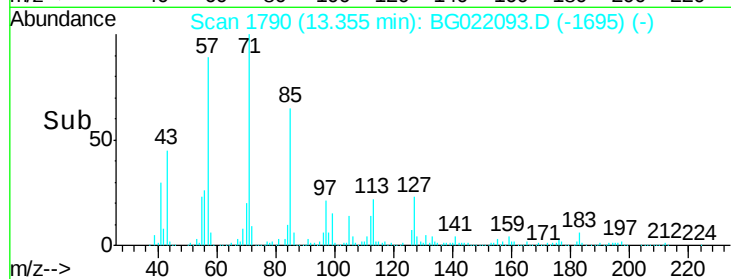
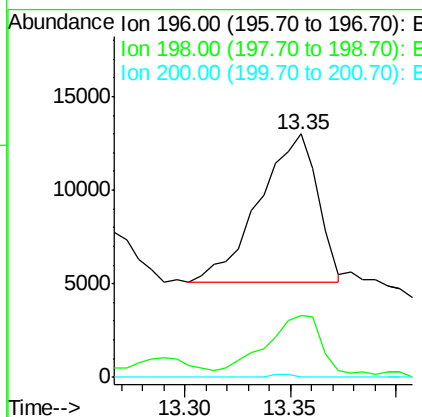
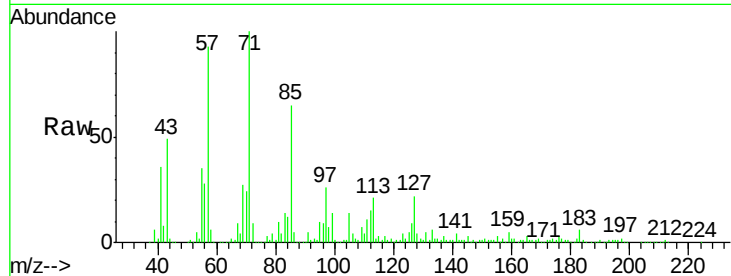




#39
 2,4,5-Trichlorophenol
 Concen: 7.10 ng/ul
 RT: 13.35 min Scan# 1790
 Delta R.T. 0.06 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

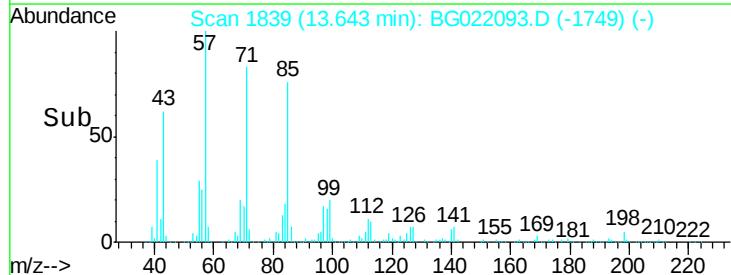
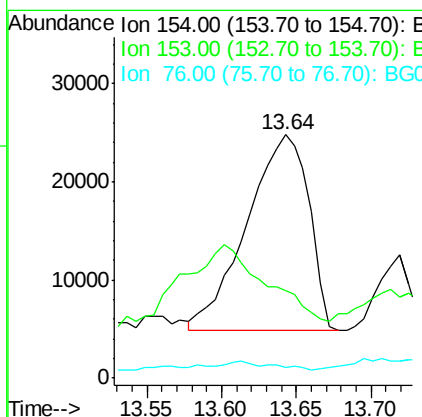
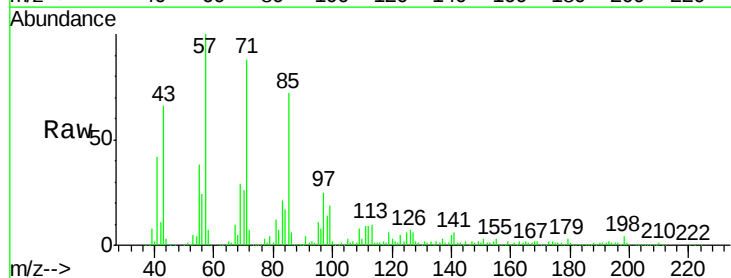
Instrument :
 BNA_G
 ClientSampleId :
 BCZK0

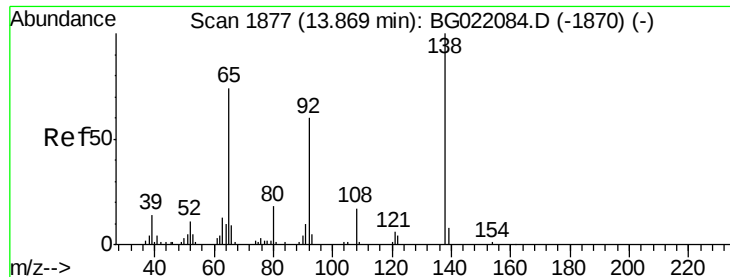
Tgt Ion:196 Resp: 15221
 Ion Ratio Lower Upper
 196 100
 198 25.4 79.8 119.8#
 200 0.0 24.0 36.0#



#40
 1,1'-Biphenyl
 Concen: 6.92 ng/ul
 RT: 13.64 min Scan# 1839
 Delta R.T. 0.03 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

Tgt Ion:154 Resp: 57469
 Ion Ratio Lower Upper
 154 100
 153 35.8 34.6 52.0
 76 4.2 11.9 17.9#





#42

2-Nitroaniline

Concen: 7.63 ng/ul

RT: 13.86 min Scan# 1876

Delta R.T. -0.01 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

Tgt Ion: 65 Resp: 10972

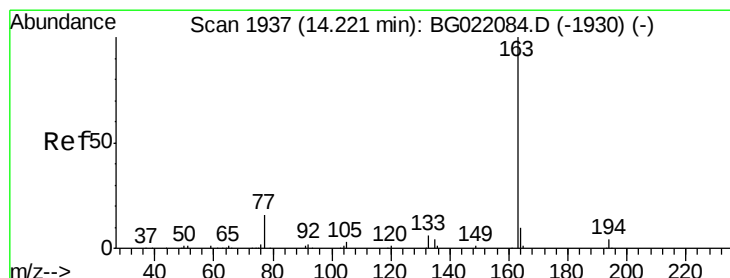
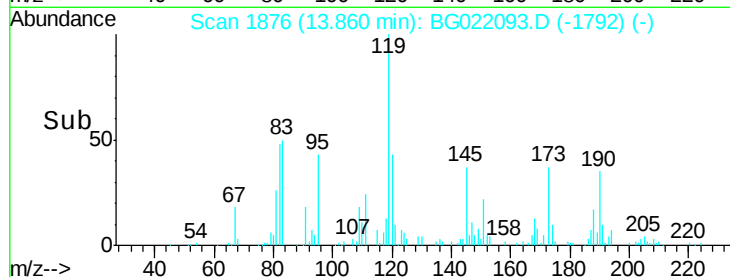
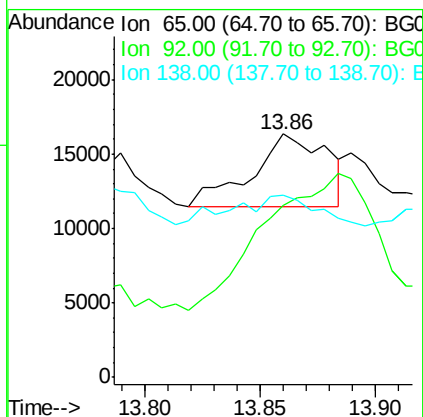
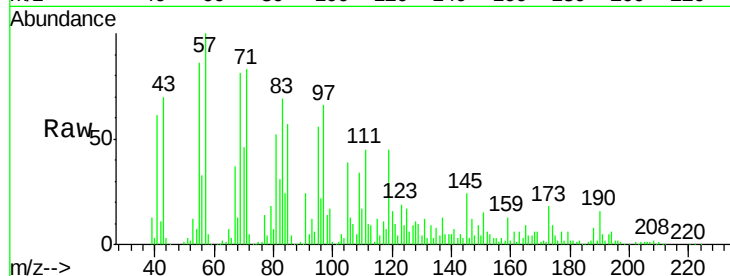
Ion Ratio Lower Upper

65 100

92 70.8

67.1 100.7

138 75.0 109.6 164.4#



#44

Dimethylphthalate

Concen: 5.20 ng/ul

RT: 14.24 min Scan# 1940

Delta R.T. 0.01 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

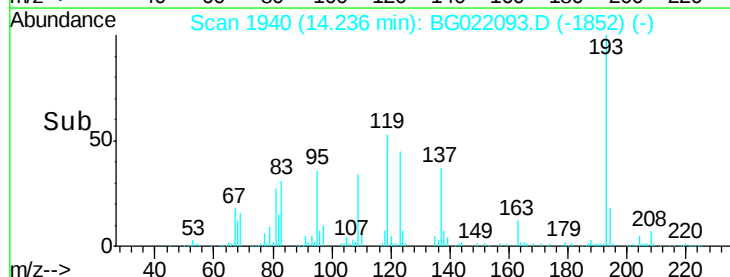
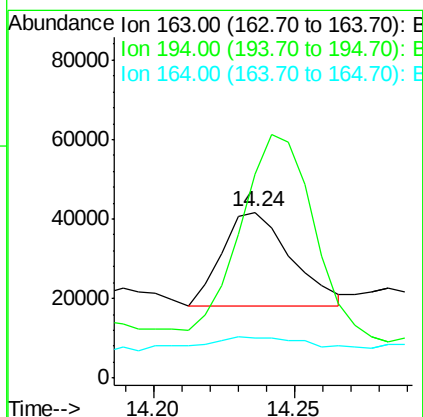
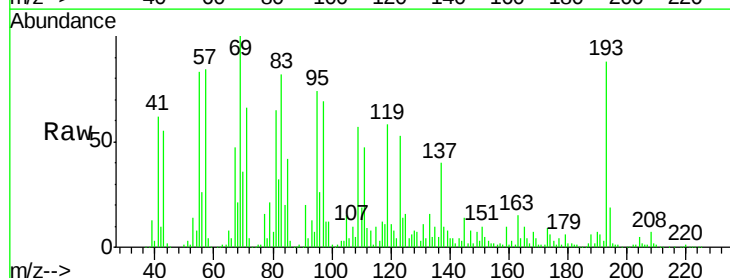
Tgt Ion: 163 Resp: 39613

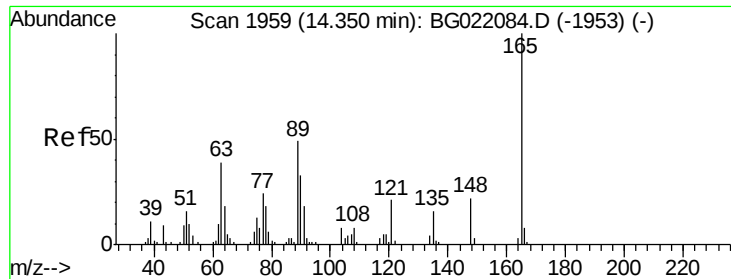
Ion Ratio Lower Upper

163 100

194 123.3 3.4 5.2#

164 24.3 8.8 13.2#

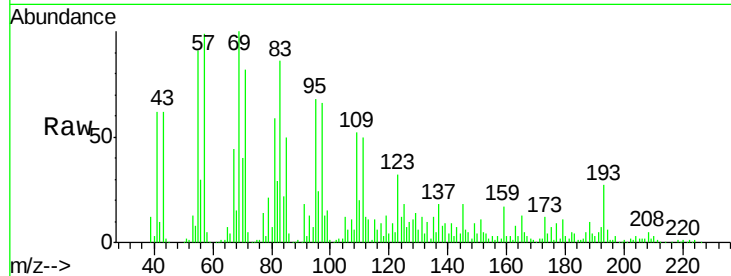




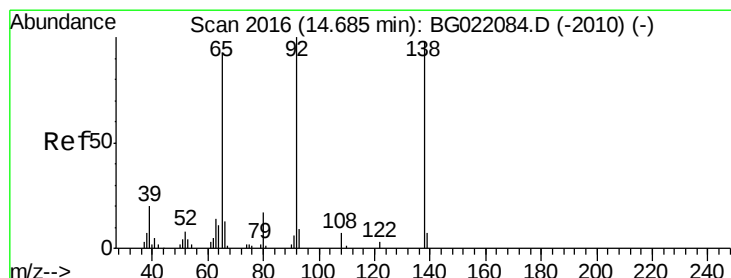
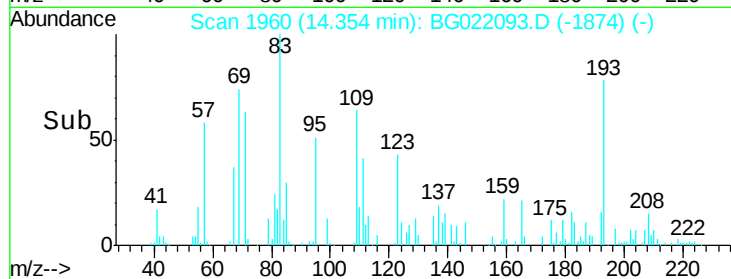
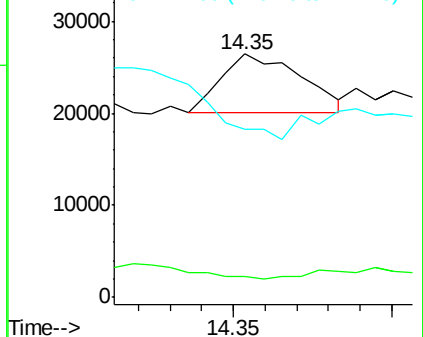
#45
 2,6-Dinitrotoluene
 Concen: 6.72 ng/ul
 RT: 14.35 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

Instrument :
 BNA_G
 ClientSampleId :
 BCZK0

Tgt Ion:165 Resp: 10977
 Ion Ratio Lower Upper
 165 100
 89 8.6 41.5 62.3#
 121 69.0 17.0 25.4#

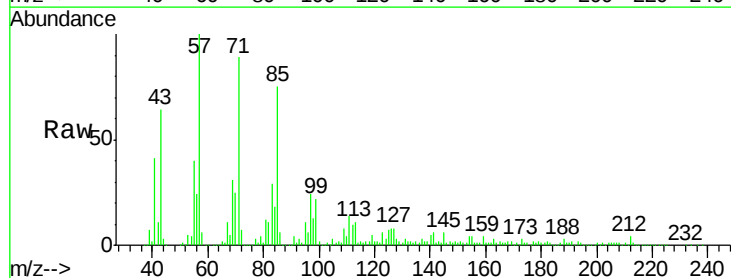


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 89.00 (88.70 to 89.70): BGO
 Ion 121.00 (120.70 to 121.70): E

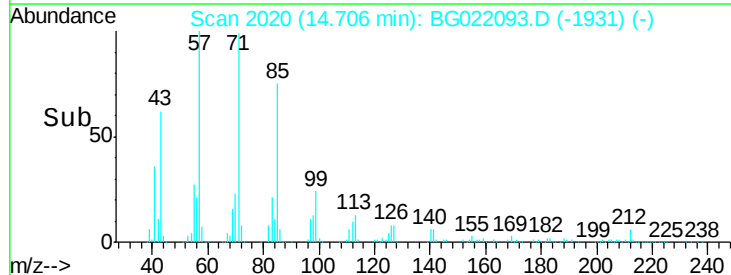
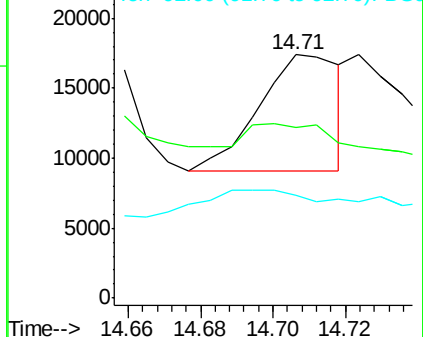


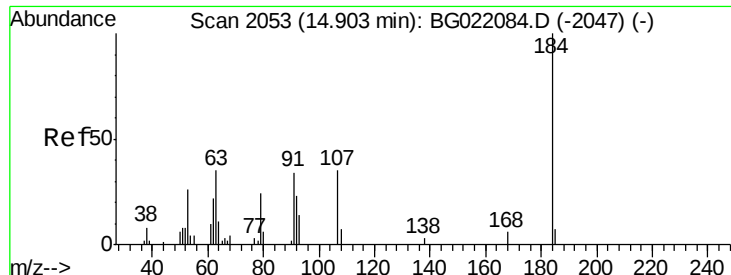
#48
 3-Nitroaniline
 Concen: 8.34 ng/ul
 RT: 14.71 min Scan# 2020
 Delta R.T. 0.02 min
 Lab File: BG022093.D
 Acq: 26 May 2016 23:09

Tgt Ion:138 Resp: 13045
 Ion Ratio Lower Upper
 138 100
 108 70.1 6.2 9.2#
 92 42.4 79.3 118.9#



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 108.00 (107.70 to 108.70): E
 Ion 92.00 (91.70 to 92.70): BGO

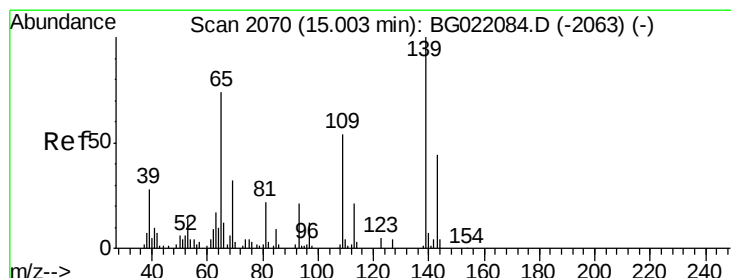
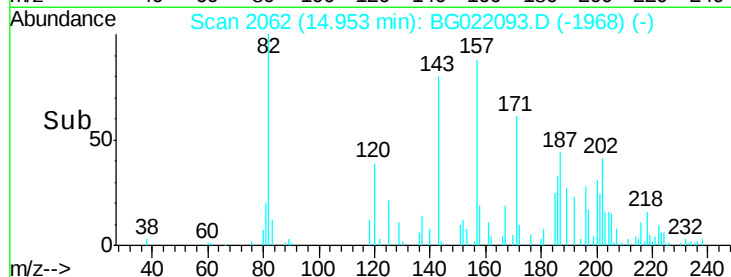
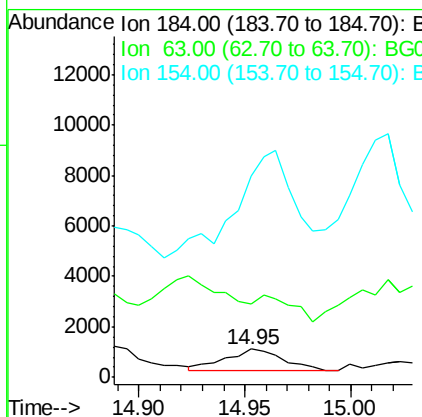
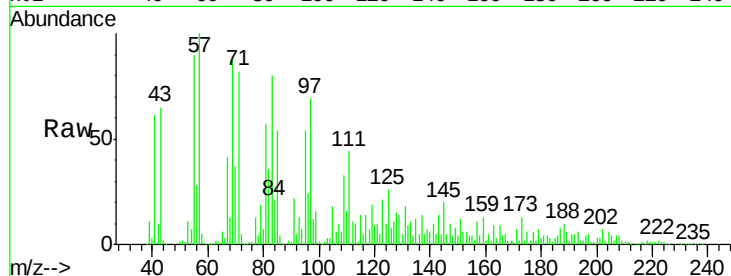




#50
2,4-Dinitrophenol
Concen: 2.69 ng/ul
RT: 14.95 min Scan# 2062
Delta R.T. 0.05 min
Lab File: BG022093.D
Acq: 26 May 2016 23:09

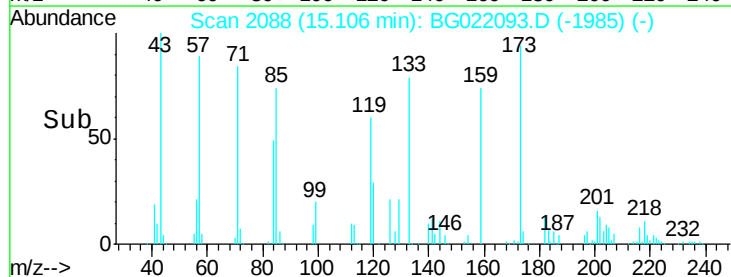
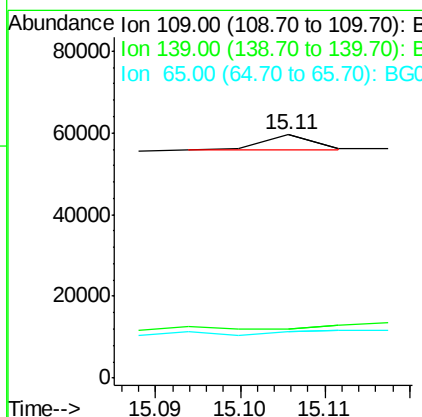
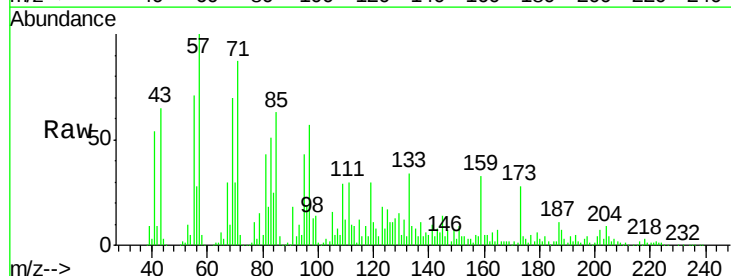
Instrument :
BNA_G
ClientSampleId :
BCZK0

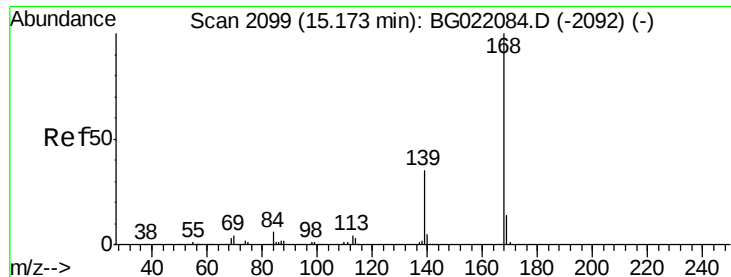
Tgt Ion:184 Resp: 1699
Ion Ratio Lower Upper
184 100
63 259.3 40.5 60.7#
154 710.1 48.5 72.7#



#52
4-Nitrophenol
Concen: 2.29 ng/ul
RT: 15.11 min Scan# 2088
Delta R.T. 0.10 min
Lab File: BG022093.D
Acq: 26 May 2016 23:09

Tgt Ion:109 Resp: 1683
Ion Ratio Lower Upper
109 100
139 20.2 136.1 204.1#
65 19.1 106.0 159.0#





#53

Dibenzo(furan)

Concen: 2.40 ng/ul

RT: 15.18 min Scan# 2101

Delta R.T. 0.01 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

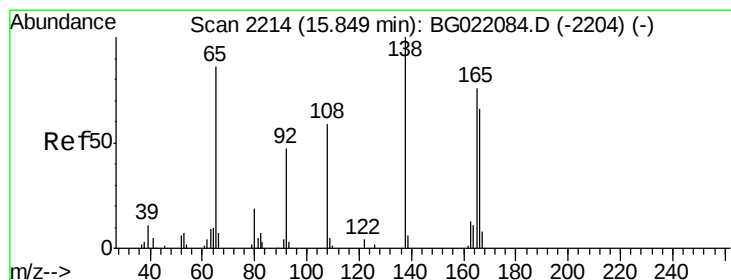
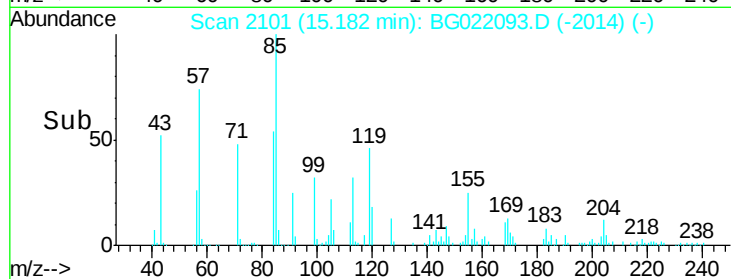
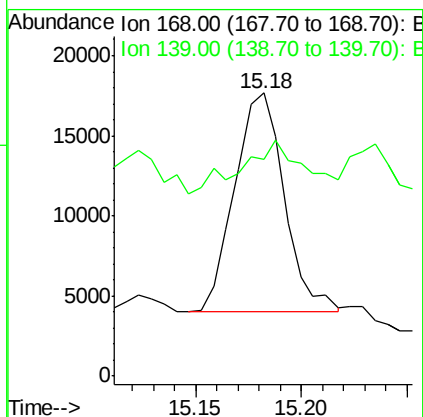
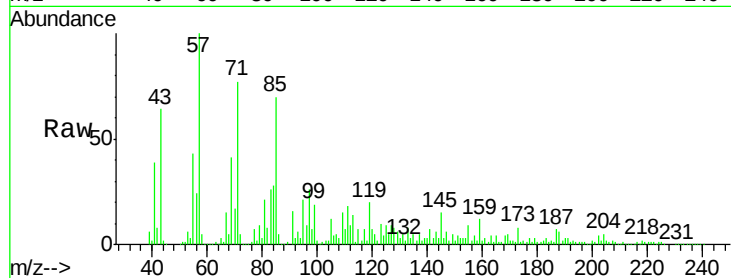
BCZK0

Tgt Ion:168 Resp: 22085

Ion Ratio Lower Upper

168 100

139 76.8 27.4 41.0#



#60

4-Nitroaniline

Concen: 6.61 ng/ul

RT: 15.68 min Scan# 2186

Delta R.T. -0.17 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

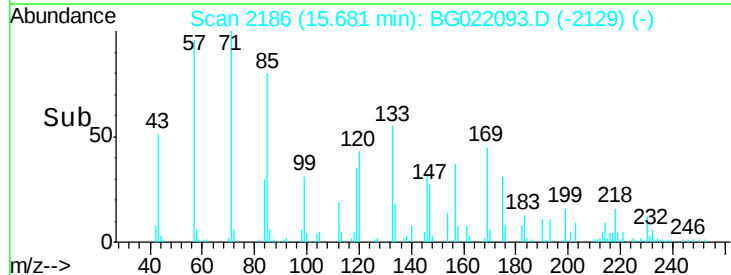
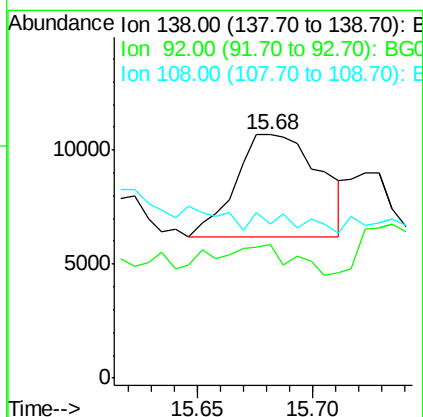
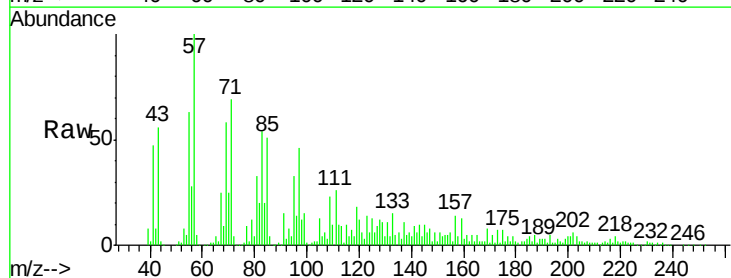
Tgt Ion:138 Resp: 11348

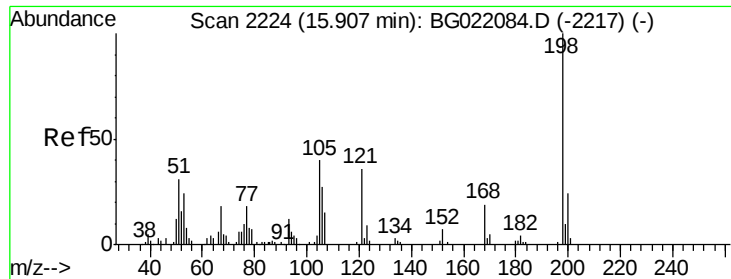
Ion Ratio Lower Upper

138 100

92 54.8 39.0 58.4

108 63.4 49.2 73.8





#63

4,6-Dinitro-2-methylphenol

Concen: 4.08 ng/ul

RT: 15.89 min Scan# 2221

Delta R.T. -0.02 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

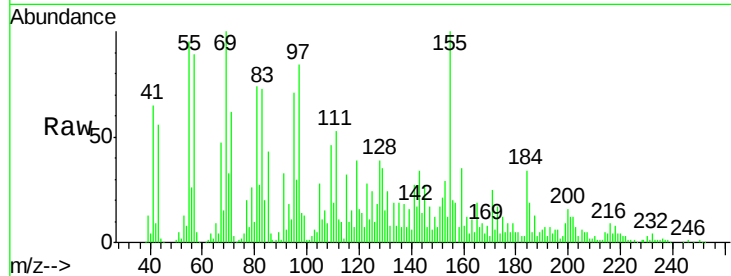
Tgt Ion:198 Resp: 3850

Ion Ratio Lower Upper

198 100

182 79.2 4.2 6.2#

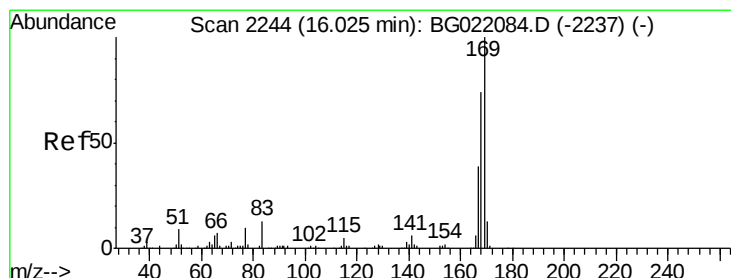
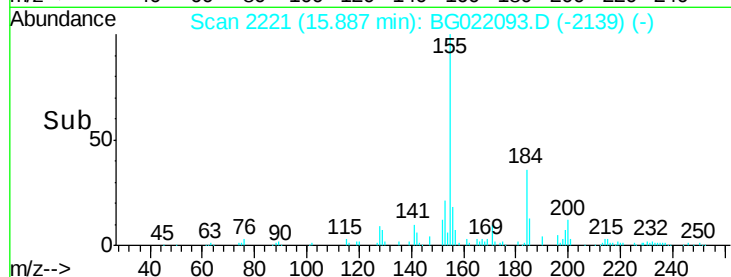
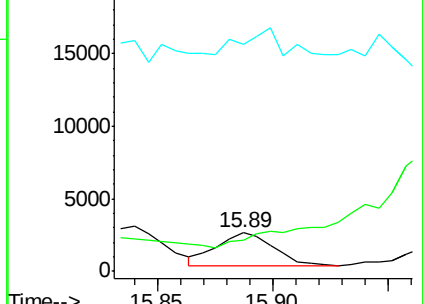
77 587.2 16.7 25.1#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BGC



#64

N-Nitrosodiphenylamine

Concen: 19.72 ng/ul

RT: 16.02 min Scan# 2243

Delta R.T. -0.01 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

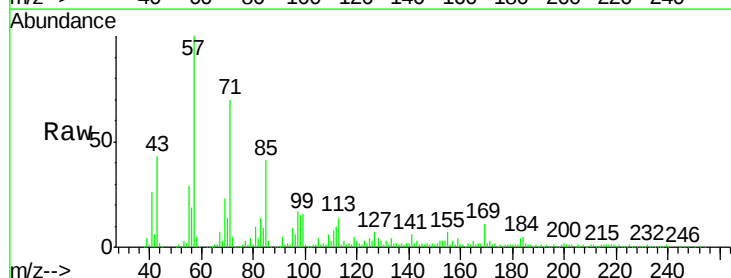
Tgt Ion:169 Resp: 108862

Ion Ratio Lower Upper

169 100

168 20.0 59.0 88.6#

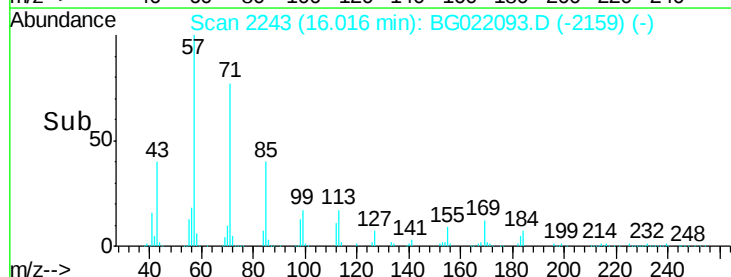
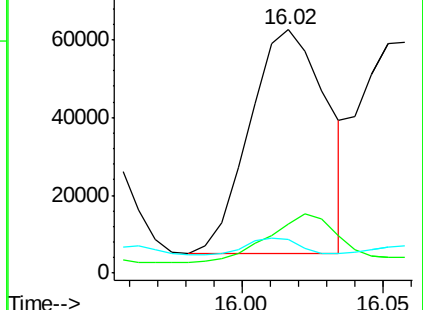
167 13.9 30.6 46.0#

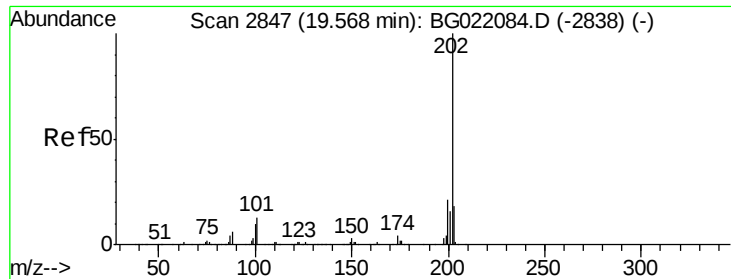


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#74

Fluoranthene

Concen: 1.57 ng/ul

RT: 19.57 min Scan# 2848

Delta R.T. 0.00 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

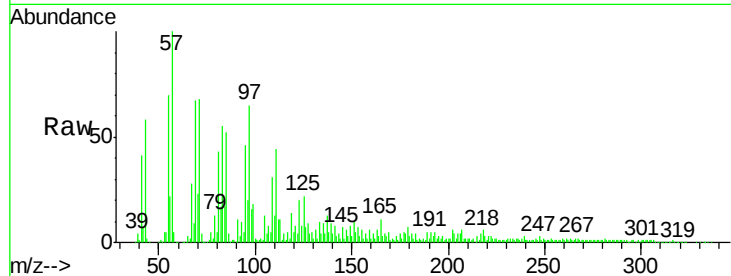
Tgt Ion:202 Resp: 15533

Ion Ratio Lower Upper

202 100

101 19.5 10.6 16.0#

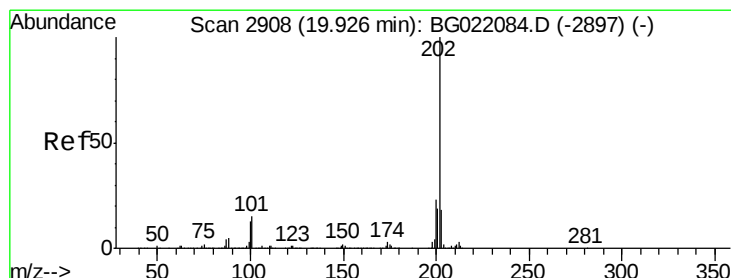
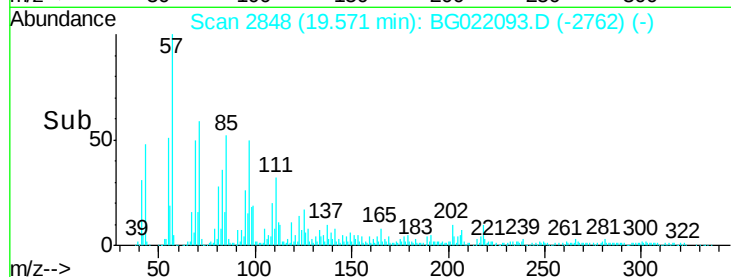
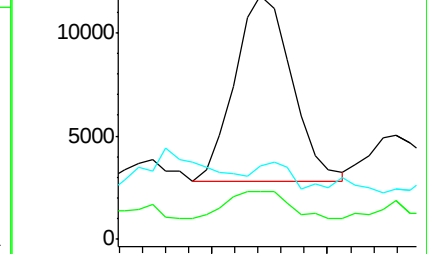
100 30.3 8.7 13.1#



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: 8.74 ng/ul

RT: 19.94 min Scan# 2911

Delta R.T. 0.01 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

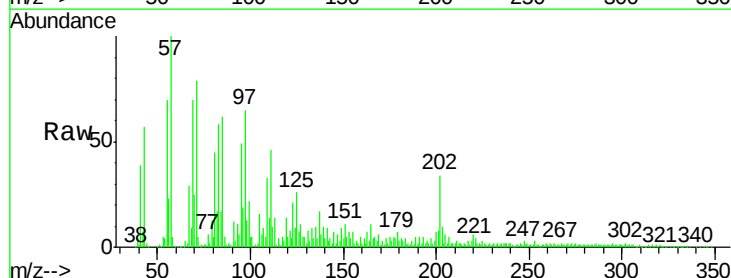
Tgt Ion:202 Resp: 140763

Ion Ratio Lower Upper

202 100

101 14.5 12.5 18.7

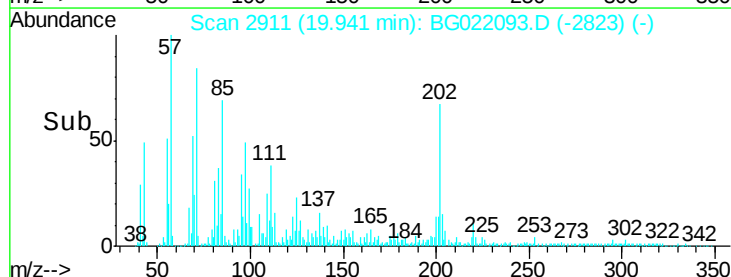
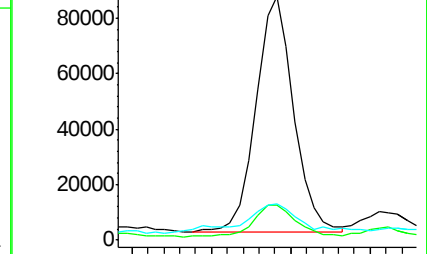
100 14.9 10.2 15.4

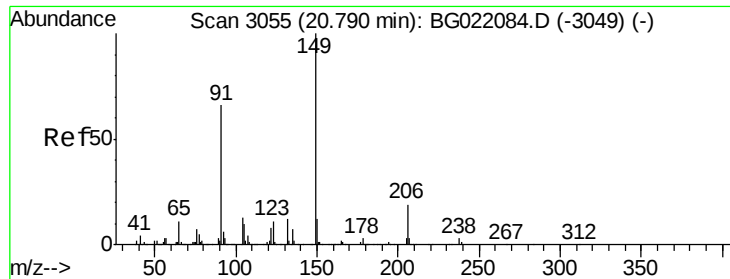


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#78

Butylbenzylphthalate

Concen: 2.22 ng/ul

RT: 21.27 min Scan# 3137

Delta R.T. 0.48 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

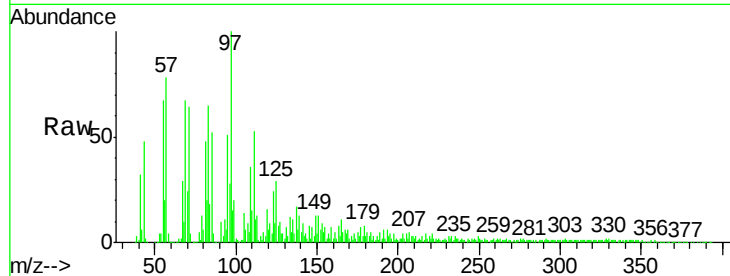
Tgt Ion:149 Resp: 16958

Ion Ratio Lower Upper

149 100

91 80.3 54.2 81.4

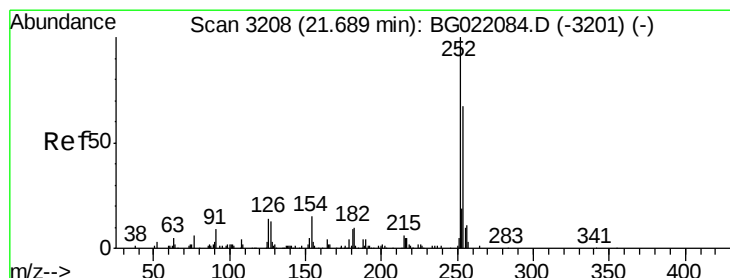
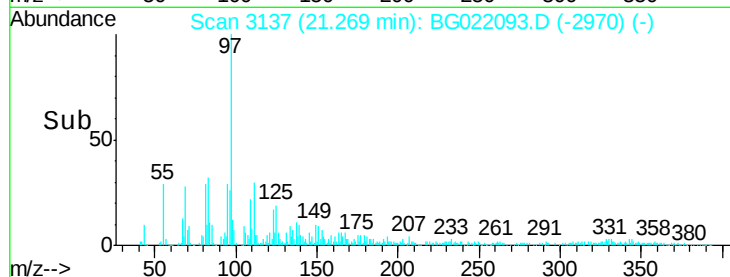
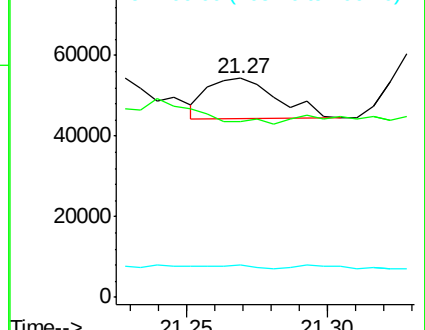
206 14.5 14.1 21.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E



#79

3,3'-Dichlorobenzidine

Concen: 2.03 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. 0.03 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

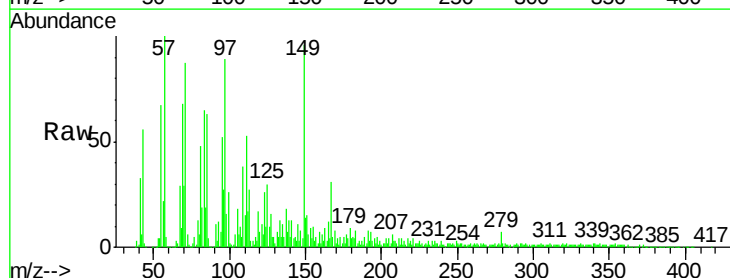
Tgt Ion:252 Resp: 8735

Ion Ratio Lower Upper

252 100

254 35.7 51.4 77.2#

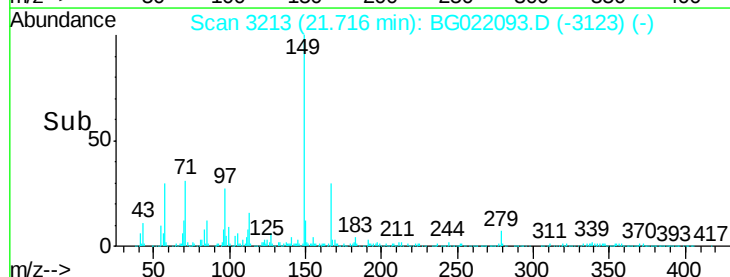
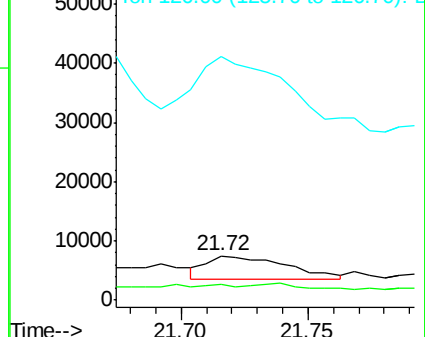
126 551.6 10.7 16.1#

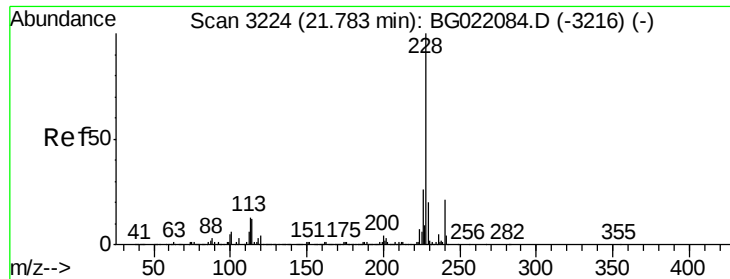


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#80

Benzo(a)anthracene

Concen: 3.14 ng/ul

RT: 21.82 min Scan# 3231

Delta R.T. 0.04 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

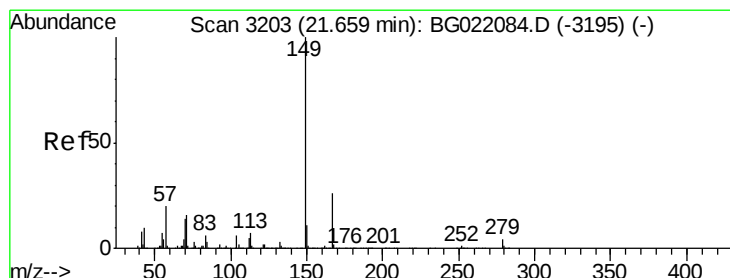
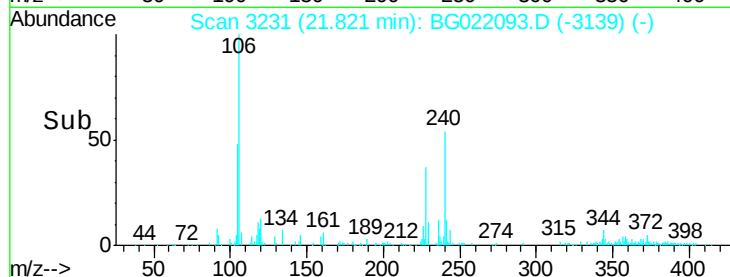
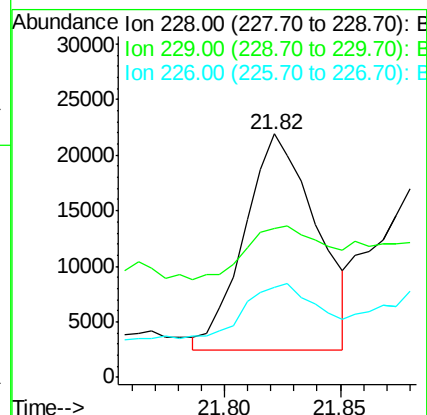
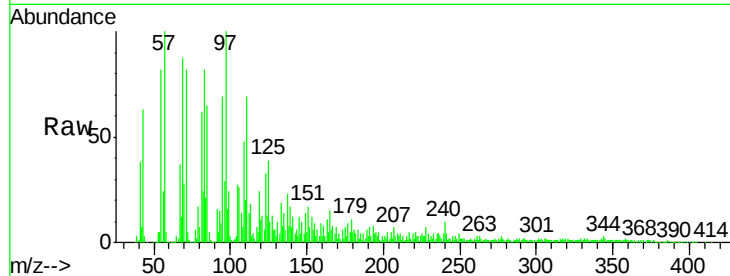
Tgt Ion:228 Resp: 42137

Ion Ratio Lower Upper

228 100

229 61.1 15.4 23.2#

226 37.1 22.8 34.2#



#81

Bis(2-ethylhexyl)phthalate

Concen: 174.44 ng/ul

RT: 21.70 min Scan# 3210

Delta R.T. 0.04 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

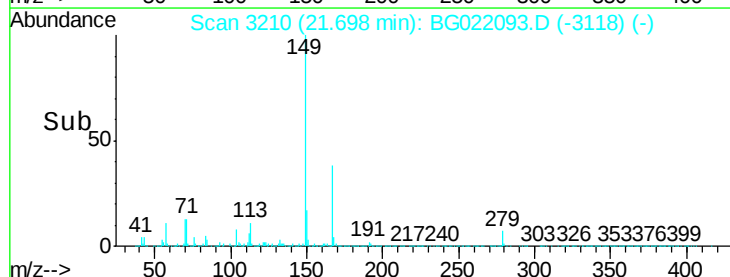
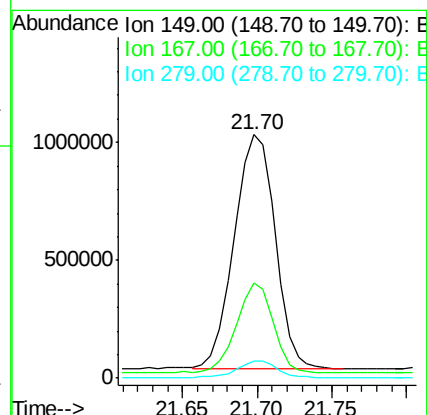
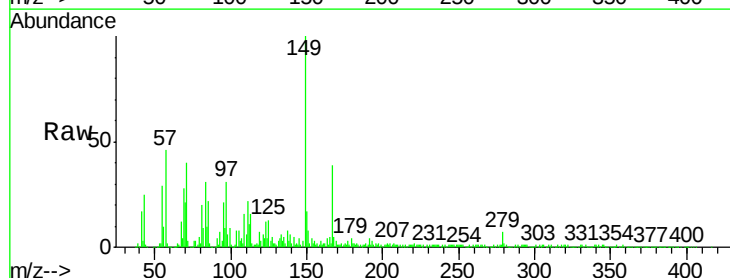
Tgt Ion:149 Resp: 1895206

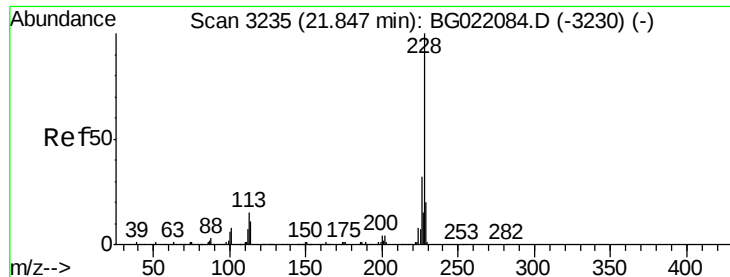
Ion Ratio Lower Upper

149 100

167 38.9 21.9 32.9#

279 7.3 2.9 4.3#





#82

Chrysene

Concen: 3.97 ng/ul

RT: 21.89 min Scan# 3242

Delta R.T. 0.04 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

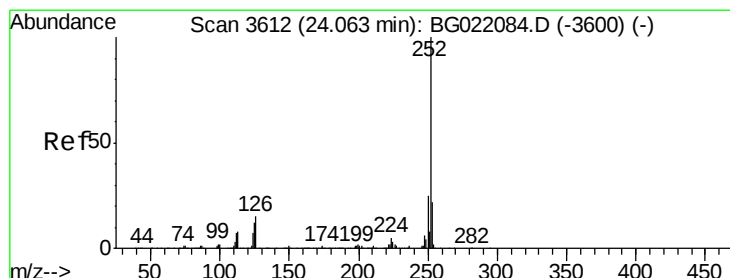
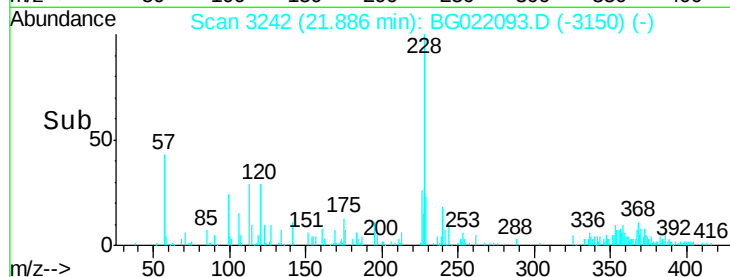
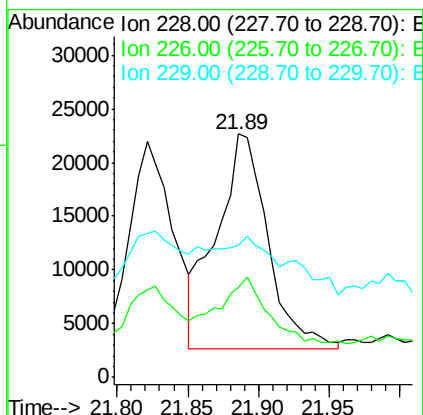
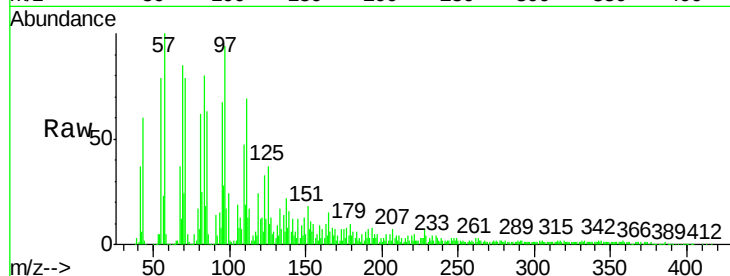
Tgt Ion:228 Resp: 51130

Ion Ratio Lower Upper

228 100

226 36.9 24.2 36.4#

229 54.4 15.0 22.6#



#85

Benzo(b)fluoranthene

Concen: 5.23 ng/ul

RT: 24.17 min Scan# 3630

Delta R.T. 0.10 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

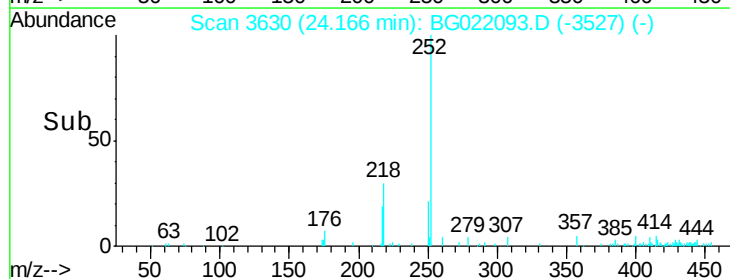
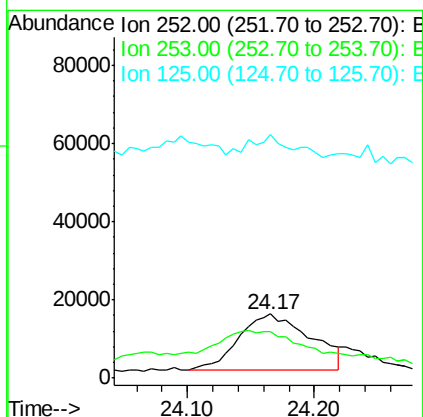
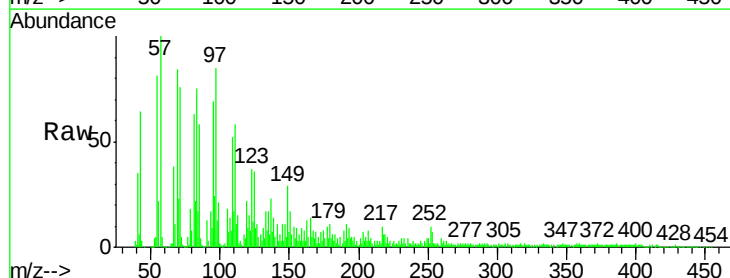
Tgt Ion:252 Resp: 56110

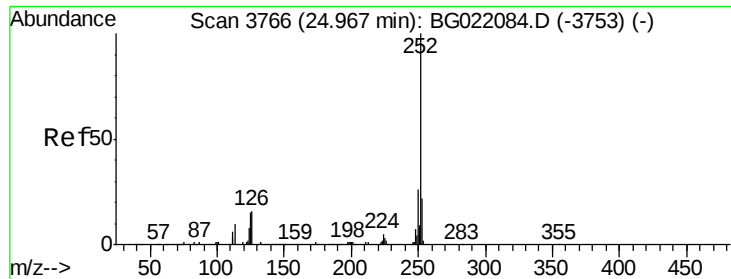
Ion Ratio Lower Upper

252 100

253 72.2 18.2 27.2#

125 378.3 10.8 16.2#





#88

Benzo(a)pyrene

Concen: 2.53 ng/ul

RT: 25.08 min Scan# 3786

Delta R.T. 0.11 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Instrument :

BNA_G

ClientSampleId :

BCZK0

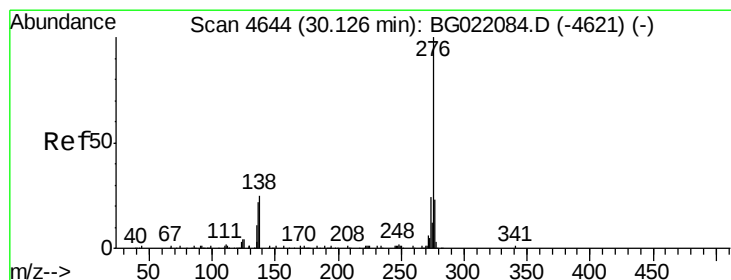
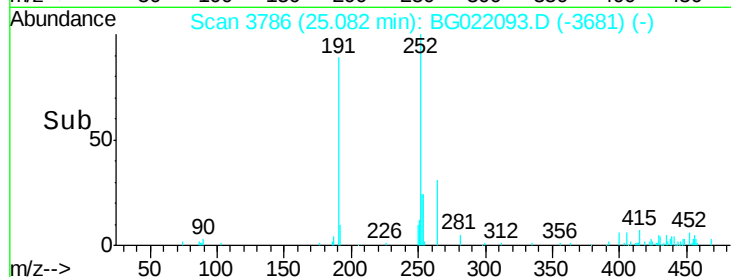
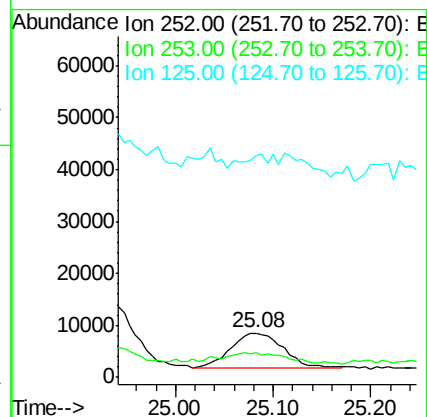
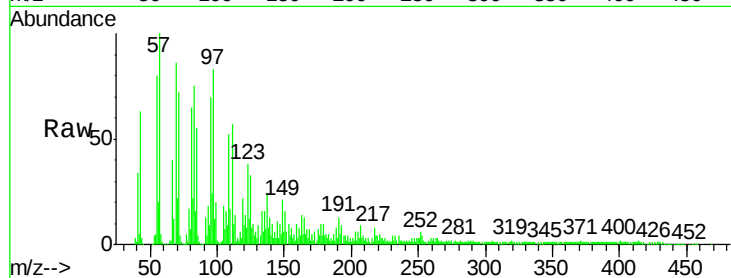
Tgt Ion:252 Resp: 26225

Ion Ratio Lower Upper

252 100

253 56.8 19.0 28.4#

125 501.7 12.0 18.0#



#91

Benzo(g,h,i)perylene

Concen: 2.35 ng/ul

RT: 30.30 min Scan# 4674

Delta R.T. 0.17 min

Lab File: BG022093.D

Acq: 26 May 2016 23:09

Tgt Ion:276 Resp: 22345

Ion Ratio Lower Upper

276 100

138 52.0 22.1 33.1#

277 29.2 17.0 25.4#

