

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021915\
 Data File : BG016022.D
 Acq On : 20 Feb 2015 4:03
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-3PPM-SOM0
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 20 07:28:51 2015

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri Feb 20 07:16:53 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	93821	20.00	ng/ul	0.00
16) Naphthalene-d8	10.60	136	413602	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.44	164	247131	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.17	188	530320	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	540276	20.00	ng/ul	0.00
83) Perylene-d12	23.65	264	531733	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.97	99	254907	28.56	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.15	67	159272	30.21	ng/ul	0.00
7) 2-Chlorophenol-d4	7.34	132	197214	29.86	ng/ul	0.00
11) 4-Methylphenol-d8	8.50	113	190833	28.89	ng/ul	0.00
17) Nitrobenzene-d5	8.96	128	96524	33.02	ng/ul	0.00
20) 2-Nitrophenol-d4	9.68	143	87670	32.51	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.21	165	163161	27.89	ng/ul	0.00
27) 4-Chloroaniline-d4	10.73	131	298663	46.35	ng/ul	0.00
41) Dimethylphthalate-d6	13.84	166	536769	32.49	ng/ul	0.00
44) Acenaphthylene-d8	14.13	160	710723	30.39	ng/ul	0.00
49) 4-Nitrophenol-d4	14.62	143	79767	24.01	ng/ul	0.00
55) Fluorene-d10	15.43	176	517749	31.18	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.54	200	34509	16.88	ng/ul	0.00
68) Anthracene-d10	17.27	188	785706	31.24	ng/ul	0.00
76) Pyrene-d10	19.57	212	827573	32.61	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.51	264	756128	31.36	ng/ul	0.00

Target Compounds

						Qvalue
2) Benzaldehyde	6.98	77	413	0.07	ng/ul#	1
6) Bis(2-Chloroethyl)ether	7.23	93	1004	0.14	ng/ul#	87
10) 2,2'-oxybis(1-Chloropropan	8.50	45	1328	0.14	ng/ul#	68
13) N-Nitroso-di-n-propylamine	8.51	70	4544	0.81	ng/ul#	1
18) Nitrobenzene	8.97	77	503	0.07	ng/ul#	23
19) Isophorone	9.68	82	4953	0.33	ng/ul#	62
26) Naphthalene	10.73	128	140	0.01	ng/ul#	1
34) 1,2,4,5-Tetrachlorobenzene	12.63	216	149	0.02	ng/ul#	25
42) Dimethylphthalate	13.84	163	441	0.03	ng/ul#	1
43) 2,6-Dinitrotoluene	13.87	165	105	0.04	ng/ul#	36
50) 4-Nitrophenol	14.75	109	1150	0.60	ng/ul#	1
56) Fluorene	15.42	166	1193	0.06	ng/ul#	6
58) 4-Nitroaniline	15.43	138	242	0.05	ng/ul#	1
69) Anthracene	17.28	178	216	0.01	ng/ul#	1
70) 1,2,3,4-Tetrachlorobenzene	13.23	216	14616	2.17	ng/uL	96
71) Pentachlorobenzene	14.75	250	28824	4.36	ng/uL	96
73) Di-n-butylphthalate	18.15	149	221	0.01	ng/ul#	78
77) Pyrene	19.57	202	1289	0.04	ng/ul#	1
80) Benzo(a)anthracene	21.35	228	1397	0.05	ng/ul#	90
81) Bis(2-ethylhexyl)phthalate	21.10	149	76	0.00	ng/ul#	50
82) Chrysene	21.35	228	1397	0.05	ng/ul#	89
84) Di-n-octyl phthalate	22.16	149	54	0.00	ng/ul	100
88) Benzo(a)pyrene	23.51	252	2743	0.09	ng/ul#	65
90) Dibenzo(a,h)anthracene	26.02	278	116	0.00	ng/ul#	53

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Misc : MDL-SOIL-3PPM-SOM0
ALS Vial : 22 Sample Multiplier: 1

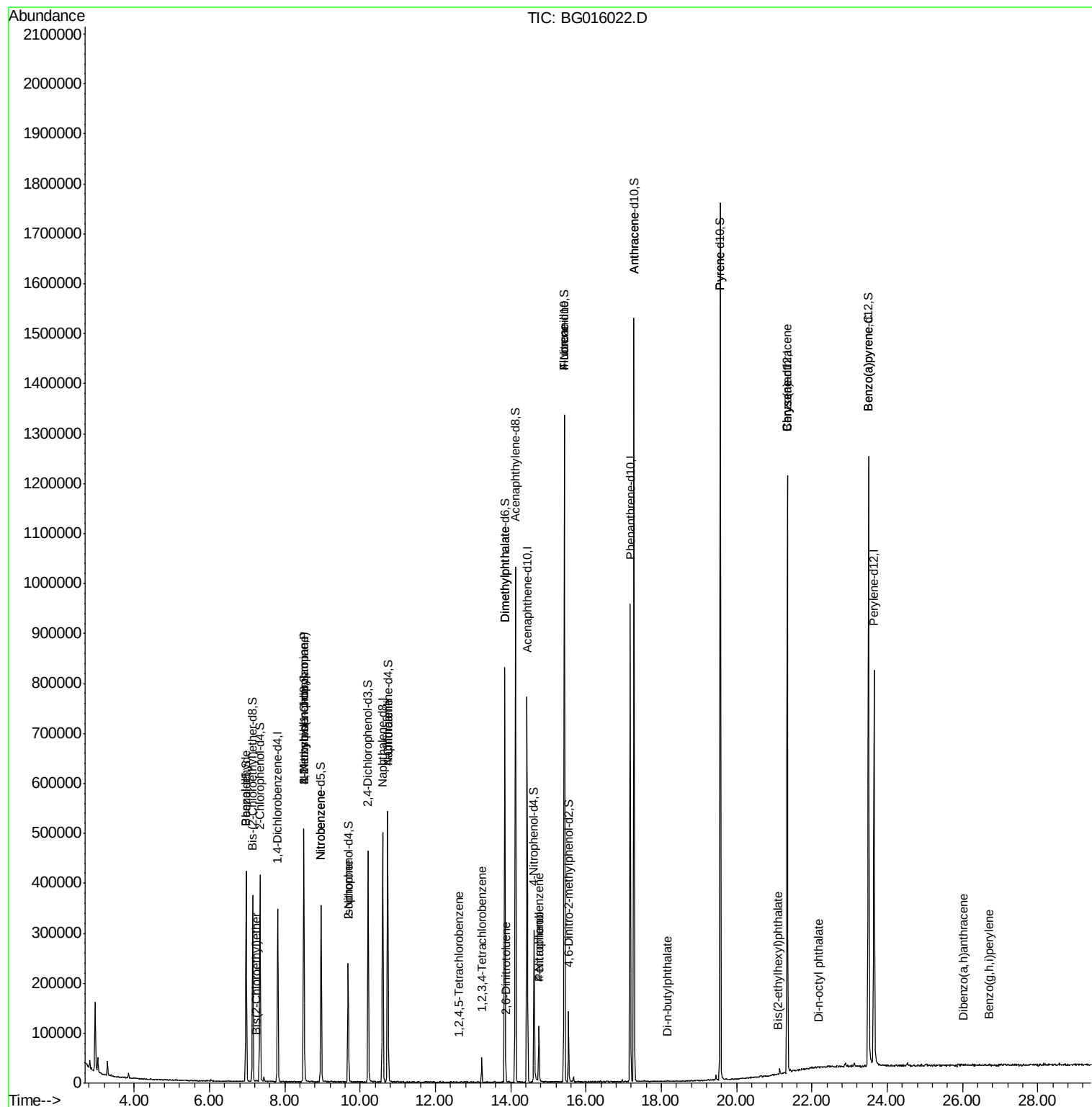
Quant Time: Feb 20 07:28:51 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Feb 20 07:16:53 2015
Response via : Initial Calibration

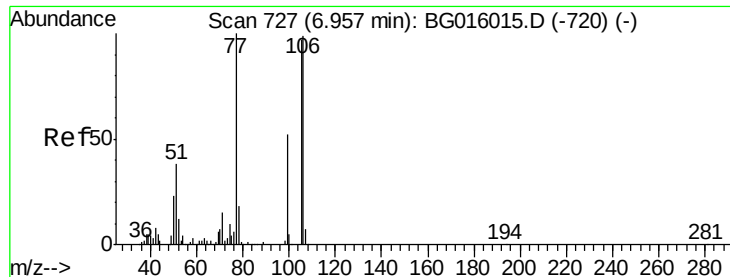
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(g,h,i)perylene	26.73	276	324	0.01	ng/ul#	48

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

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#2

Benzaldehyde

Concen: 0.07 ng/ul

RT: 6.98 min Scan# 730

Delta R.T. 0.02 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

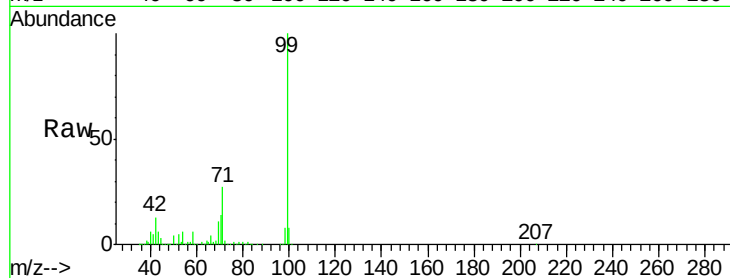
Tgt Ion: 77 Resp: 413

Ion Ratio Lower Upper

77 100

105 0.0 76.6 114.8#

106 0.0 78.2 117.4#

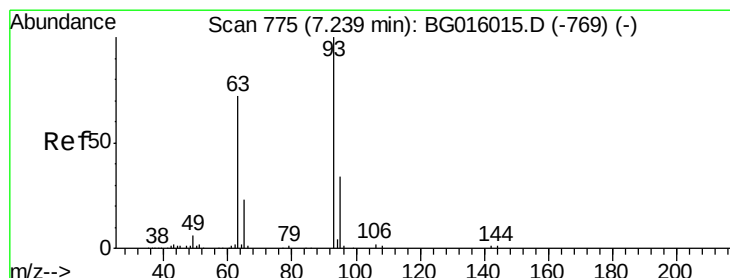
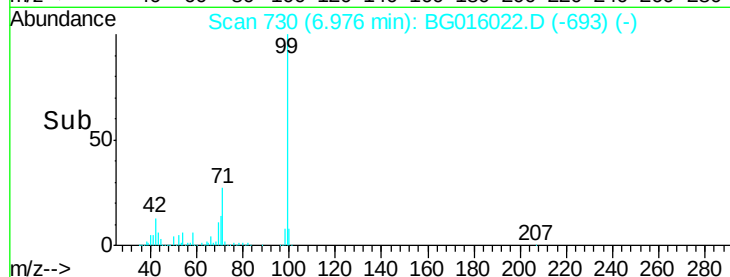
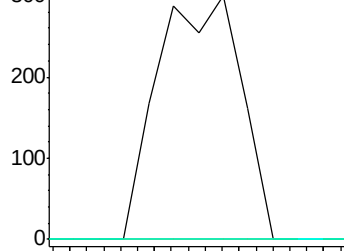


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC

6.98



#6

Bis(2-Chloroethyl)ether

Concen: 0.14 ng/ul

RT: 7.23 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

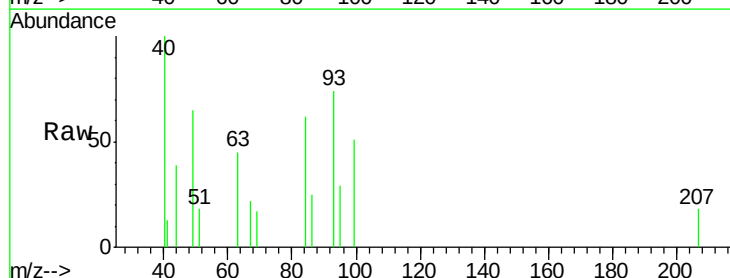
Tgt Ion: 93 Resp: 1004

Ion Ratio Lower Upper

93 100

63 60.8 57.5 86.3

95 39.4 25.8 38.6#

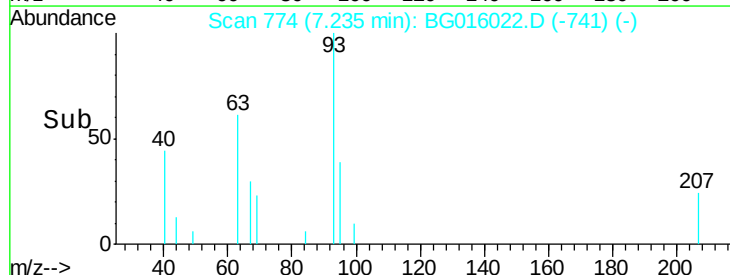
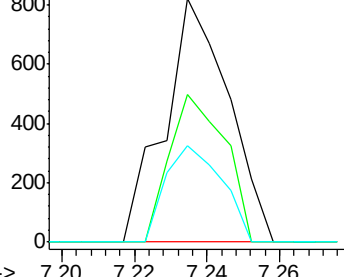


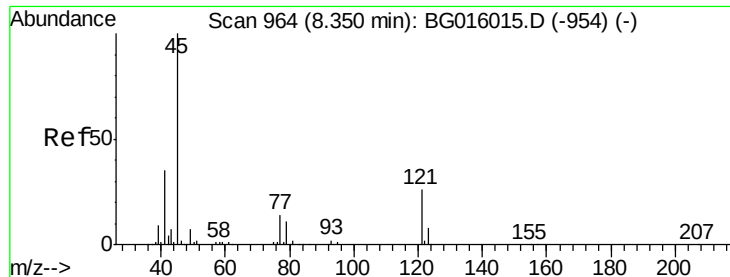
Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

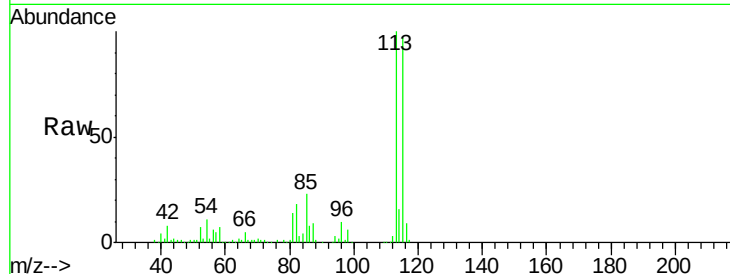
7.23



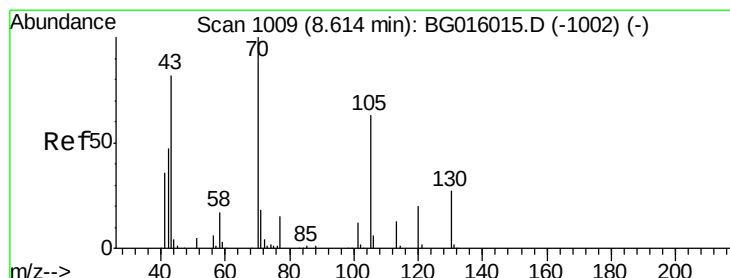
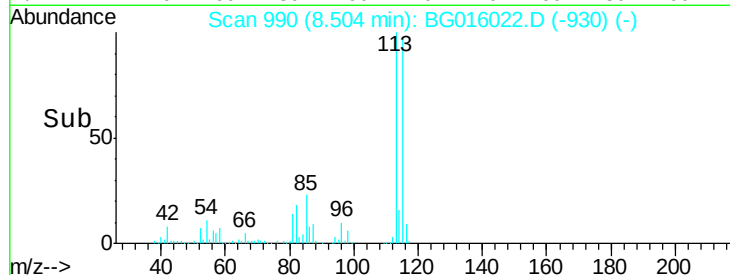
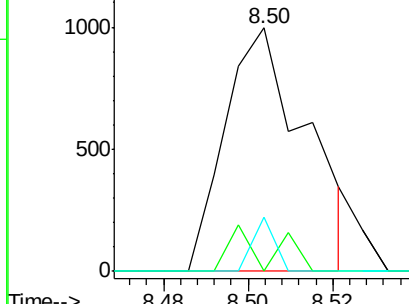


#10
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.14 ng/ul
 RT: 8.50 min Scan# 990
 Delta R.T. 0.15 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
45	100		
77	0.0	11.4	17.2#
79	22.1	9.0	13.6#

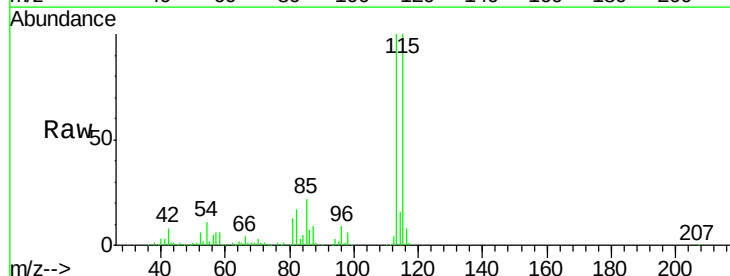


Abundance Ion 45.00 (44.70 to 45.70): BGC
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 79.00 (78.70 to 79.70): BGC

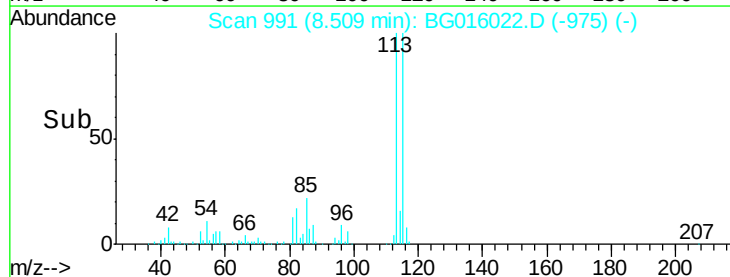
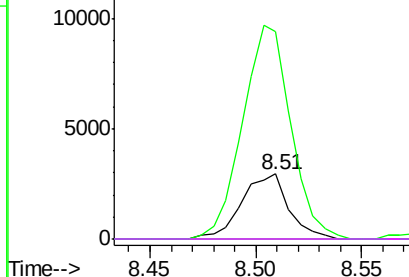


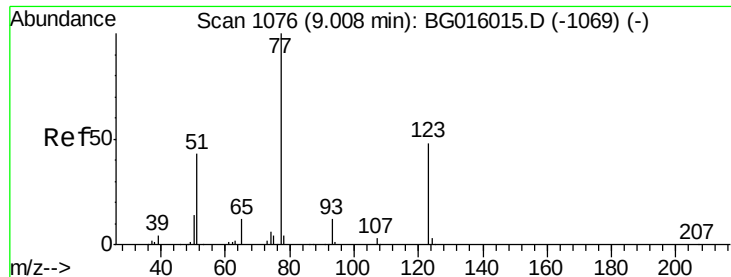
#13
 N-Nitroso-di-n-propylamine
 Concen: 0.81 ng/ul
 RT: 8.51 min Scan# 991
 Delta R.T. -0.10 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
70	100		
42	317.3	37.8	56.6#
101	0.0	9.3	13.9#
130	0.0	22.2	33.2#



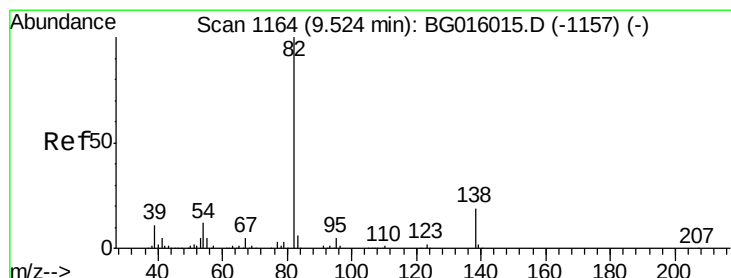
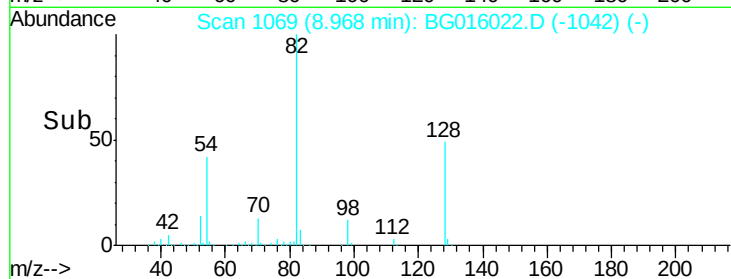
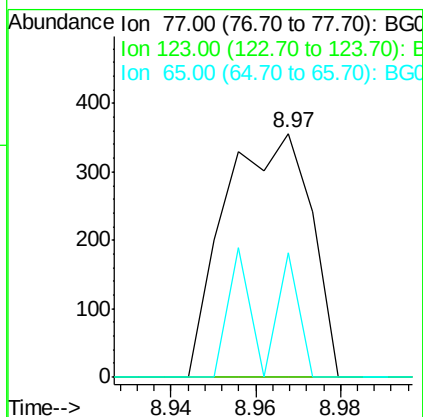
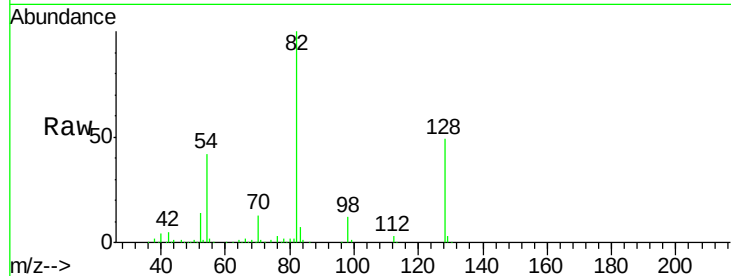
Abundance Ion 70.00 (69.70 to 70.70): BGC
 Ion 42.00 (41.70 to 42.70): BGC
 Ion 101.00 (100.70 to 101.70): BGC
 Ion 130.00 (129.70 to 130.70): BGC





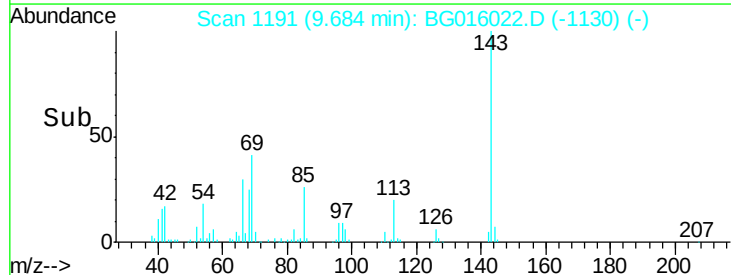
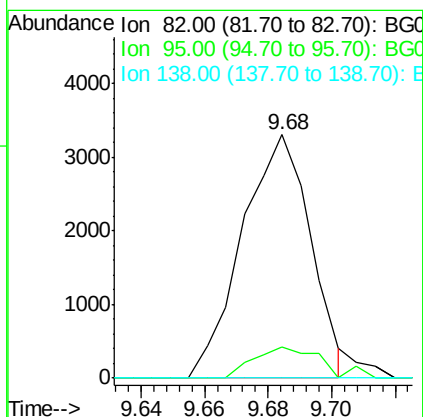
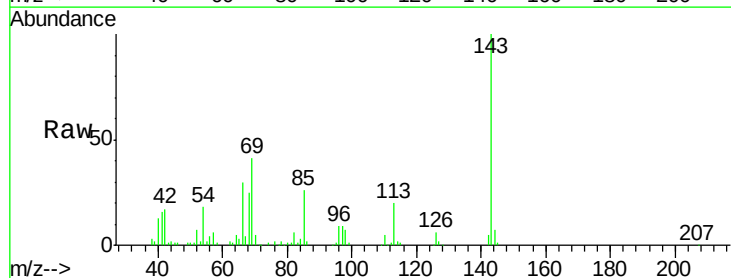
#18
Nitrobenzene
Concen: 0.07 ng/ul
RT: 8.97 min Scan# 1069
Delta R.T. -0.04 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

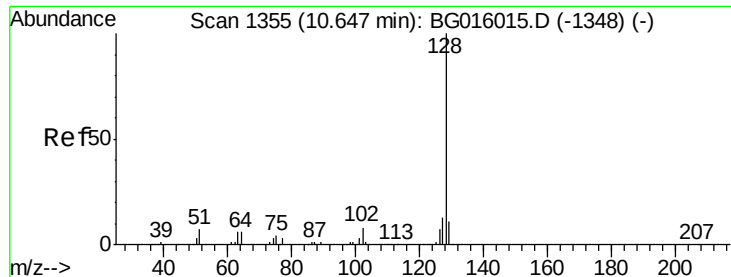
Tgt Ion: 77 Resp: 503
Ion Ratio Lower Upper
77 100
123 0.0 39.9 59.9#
65 51.1 11.0 16.6#



#19
Isophorone
Concen: 0.33 ng/ul
RT: 9.68 min Scan# 1191
Delta R.T. 0.16 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion: 82 Resp: 4953
Ion Ratio Lower Upper
82 100
95 12.9 4.6 6.8#
138 0.0 15.4 23.2#





#26

Naphthalene

Concen: 0.01 ng/ul

RT: 10.73 min Scan# 1369

Delta R.T. 0.08 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

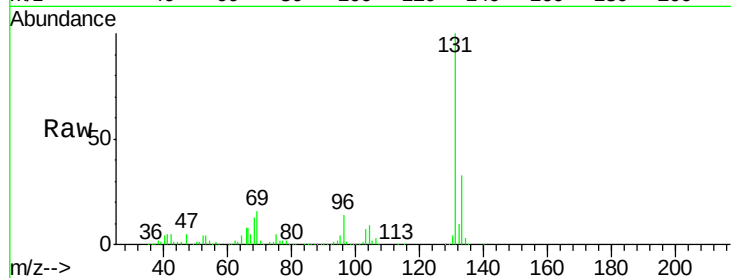
Tgt Ion:128 Resp: 140

Ion Ratio Lower Upper

128 100

129 259.5 8.7 13.1#

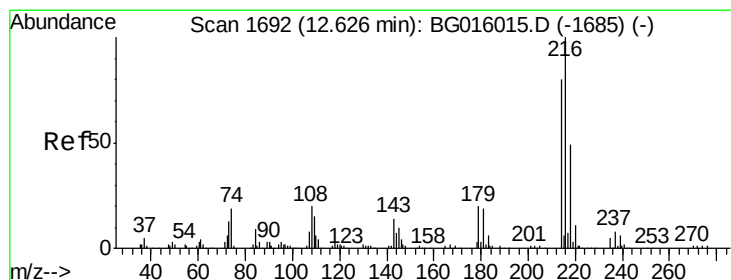
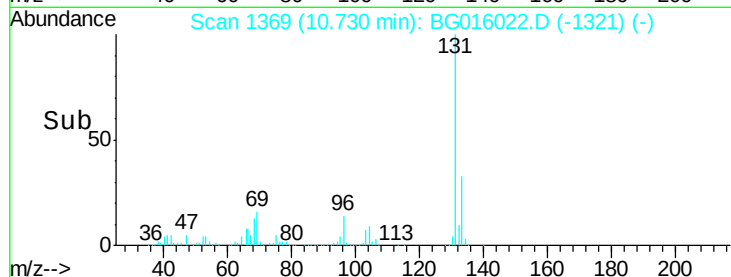
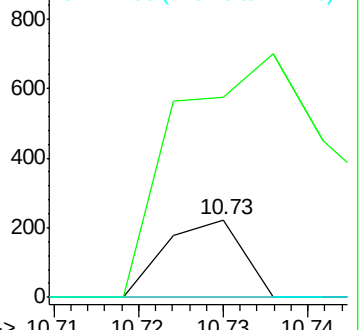
127 0.0 10.4 15.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

1,2,4,5-Tetrachlorobenzene

Concen: 0.02 ng/ul

RT: 12.63 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

Tgt Ion:216 Resp: 149

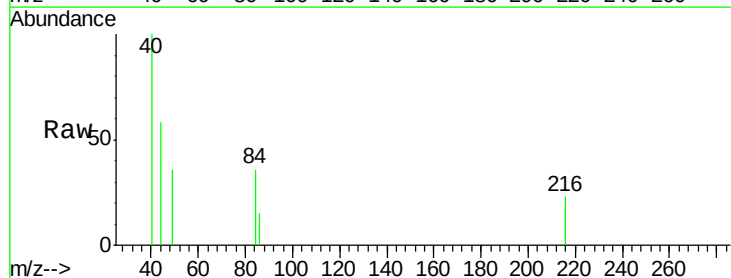
Ion Ratio Lower Upper

216 100

214 0.0 64.3 96.5#

179 0.0 15.7 23.5#

108 0.0 16.1 24.1#

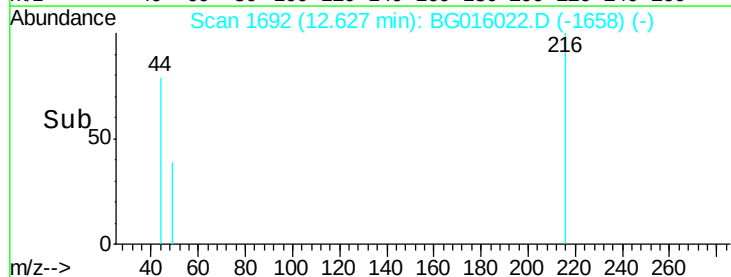
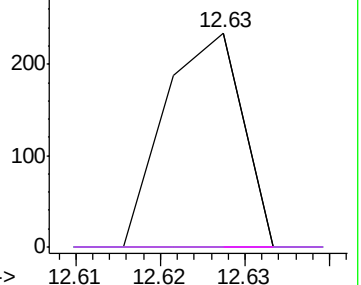


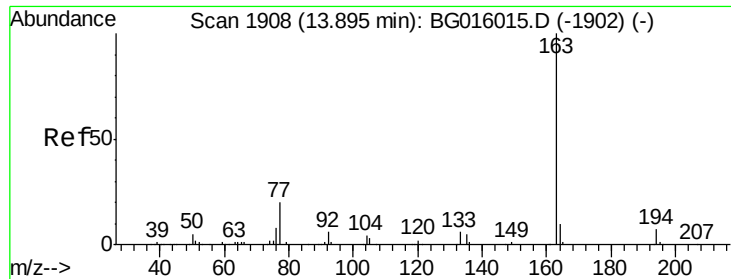
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

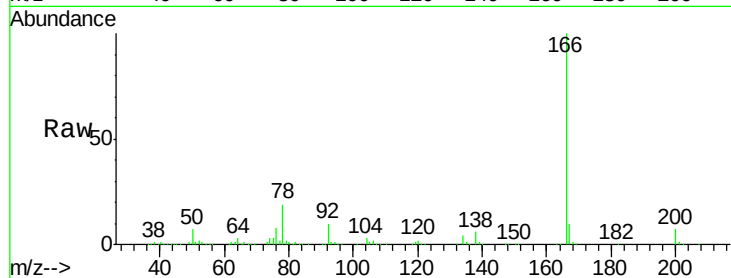
Ion 108.00 (107.70 to 108.70): E



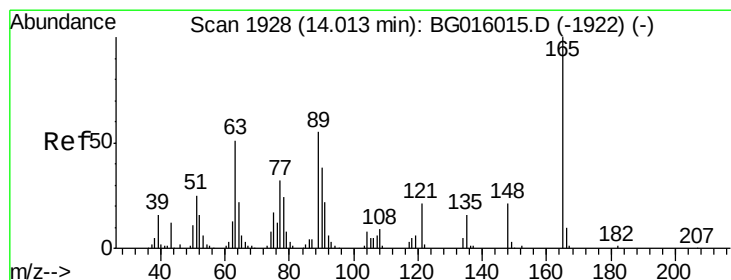
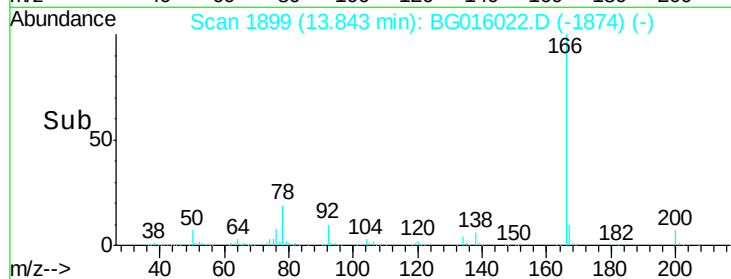
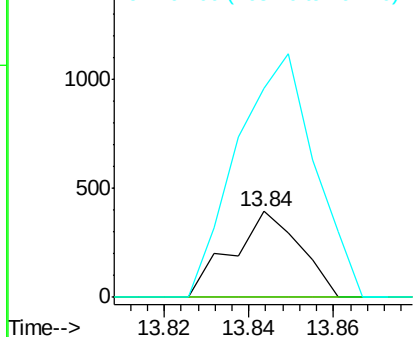


#42
Dimethylphthalate
Concen: 0.03 ng/ul
RT: 13.84 min Scan# 1899
Delta R.T. -0.05 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion:163 Resp: 441
Ion Ratio Lower Upper
163 100
194 0.0 5.3 7.9#
164 243.3 8.5 12.7#

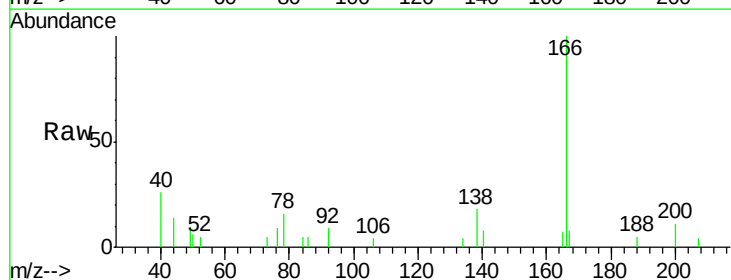


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

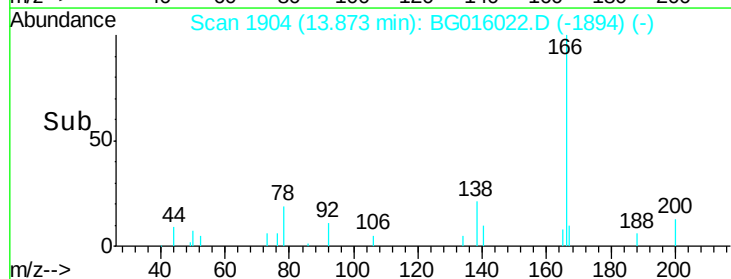
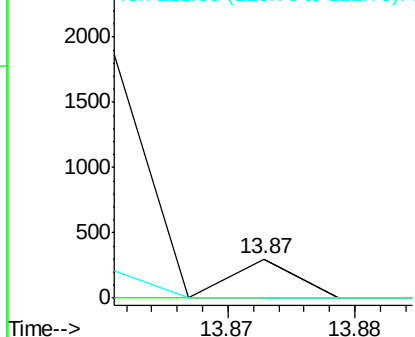


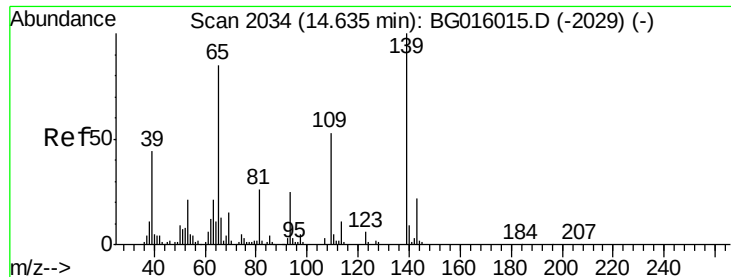
#43
2,6-Dinitrotoluene
Concen: 0.04 ng/ul
RT: 13.87 min Scan# 1904
Delta R.T. -0.14 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion:165 Resp: 105
Ion Ratio Lower Upper
165 100
89 0.0 39.8 59.8#
121 0.0 15.8 23.6#



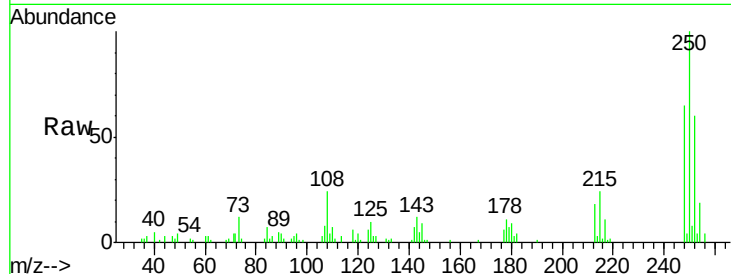
Abundance Ion 165.00 (164.70 to 165.70): E
Ion 89.00 (88.70 to 89.70): BG
Ion 121.00 (120.70 to 121.70): E



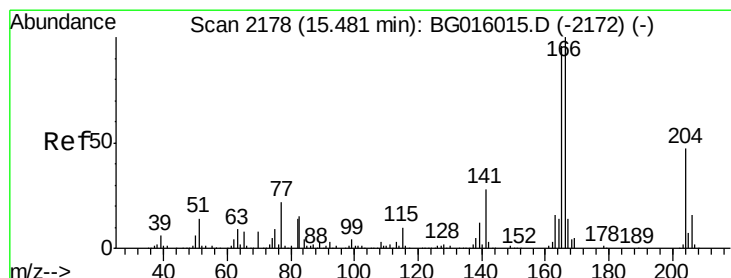
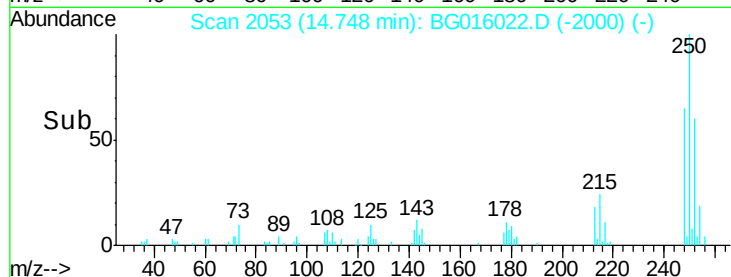
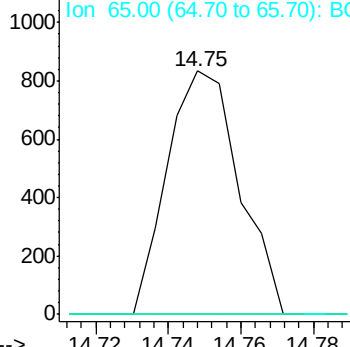


#50
4-Nitrophenol
Concen: 0.60 ng/ul
RT: 14.75 min Scan# 2053
Delta R.T. 0.11 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
109	100		
139	0.0	146.1	219.1#
65	0.0	123.5	185.3#

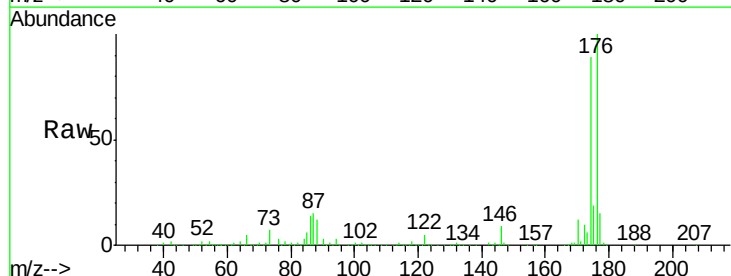


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B

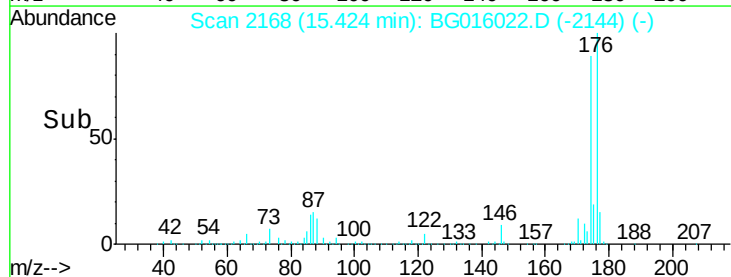
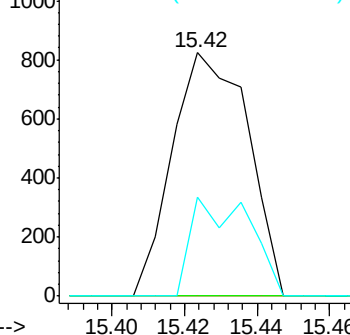


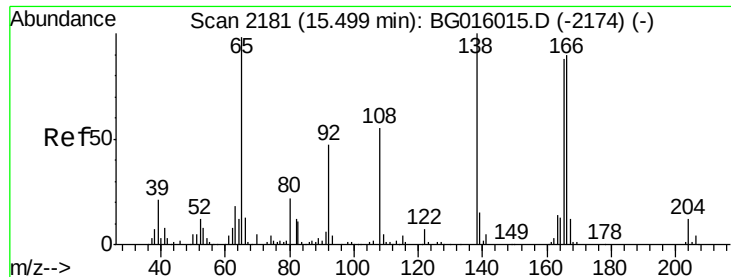
#56
Fluorene
Concen: 0.06 ng/ul
RT: 15.42 min Scan# 2168
Delta R.T. -0.06 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	75.4	113.2#
167	40.8	11.0	16.4#



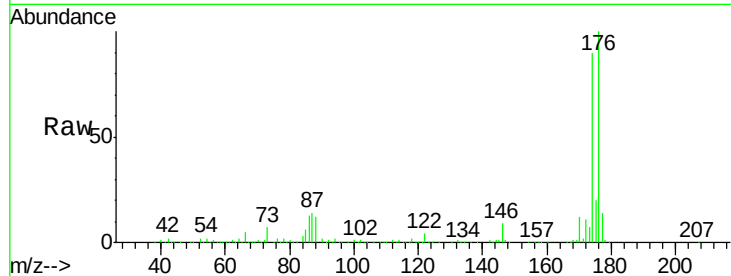
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



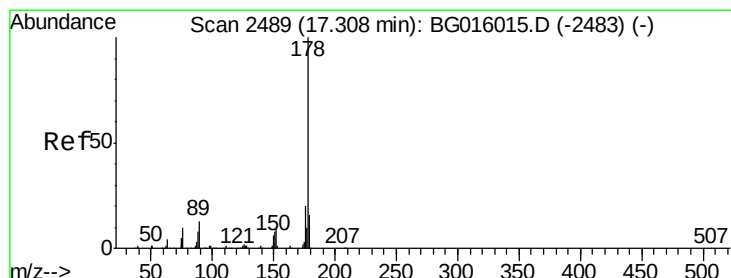
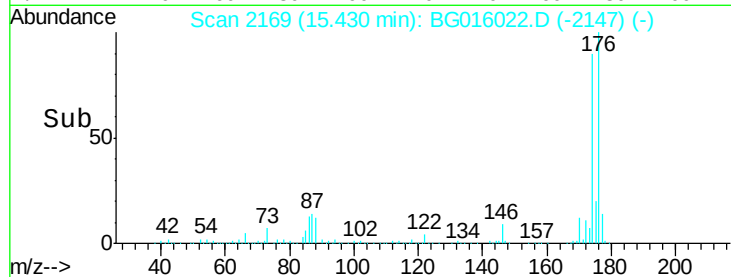
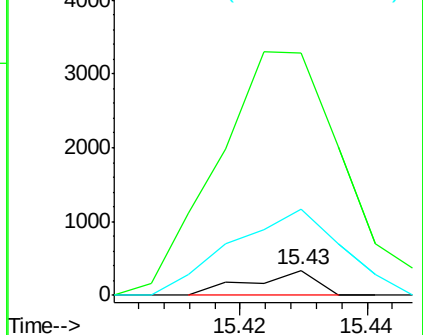


#58
4-Nitroaniline
Concen: 0.05 ng/ul
RT: 15.43 min Scan# 2169
Delta R.T. -0.07 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion:138 Resp: 242
Ion Ratio Lower Upper
138 100
92 973.7 38.1 57.1#
108 344.1 46.4 69.6#

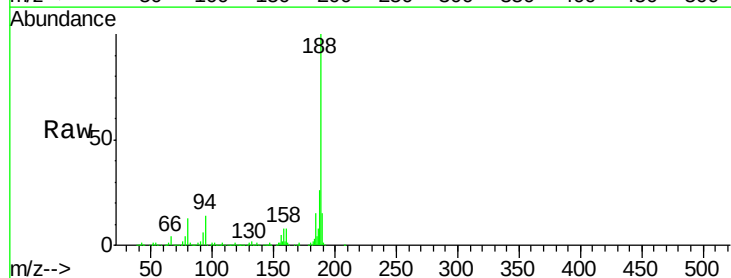


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BGC
Ion 108.00 (107.70 to 108.70): E

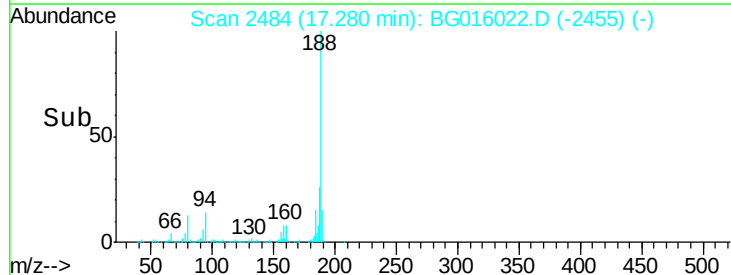
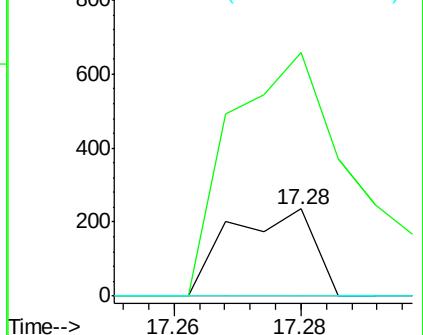


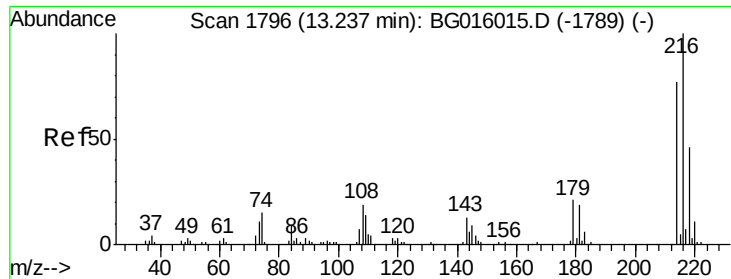
#69
Anthracene
Concen: 0.01 ng/ul
RT: 17.28 min Scan# 2484
Delta R.T. -0.03 min
Lab File: BG016022.D
Acq: 20 Feb 2015 4:03

Tgt Ion:178 Resp: 216
Ion Ratio Lower Upper
178 100
179 278.8 12.9 19.3#
176 0.0 15.7 23.5#



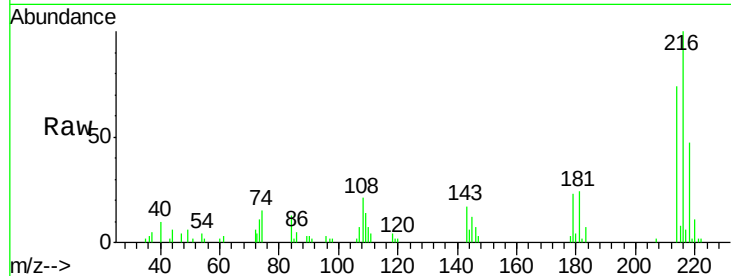
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



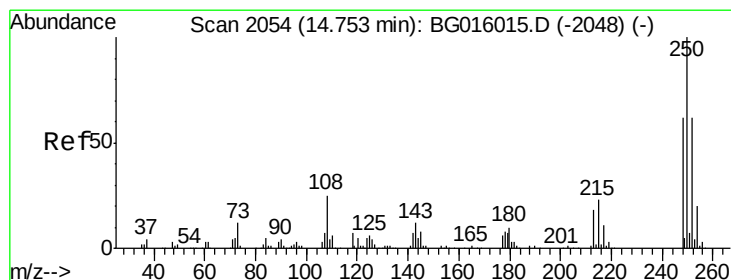
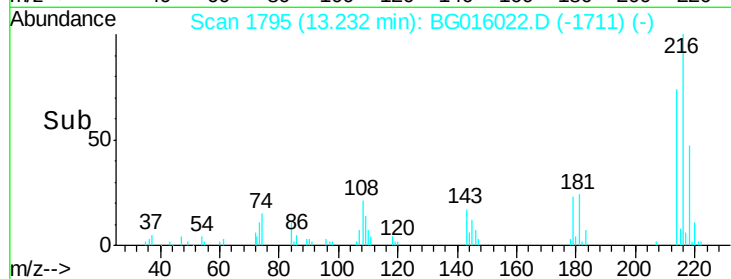
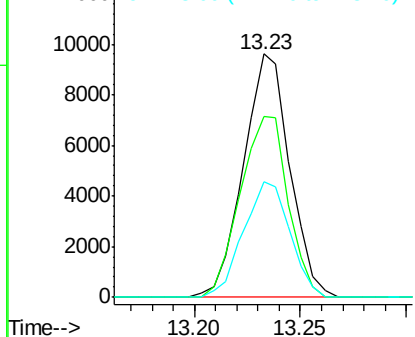


#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 2.17 ng/uL
 RT: 13.23 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
216	100		
214	74.4	64.5	96.7
218	47.4	37.9	56.9

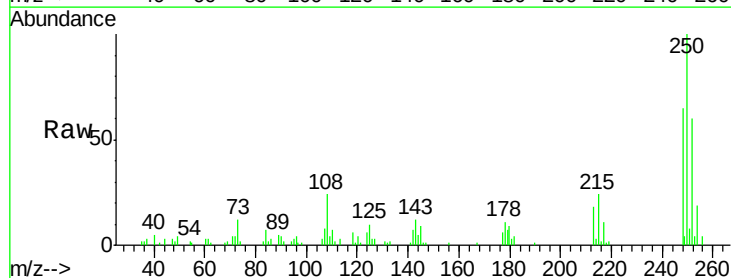


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 218.00 (217.70 to 218.70): E

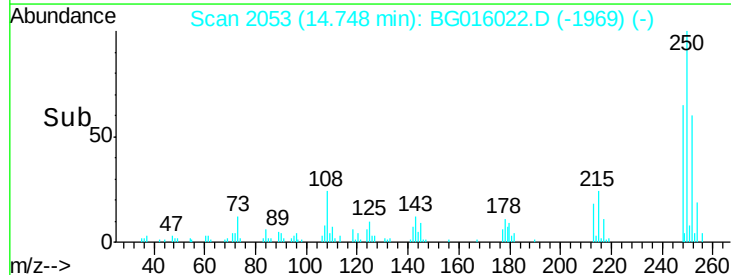
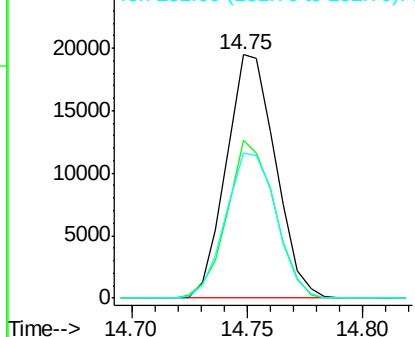


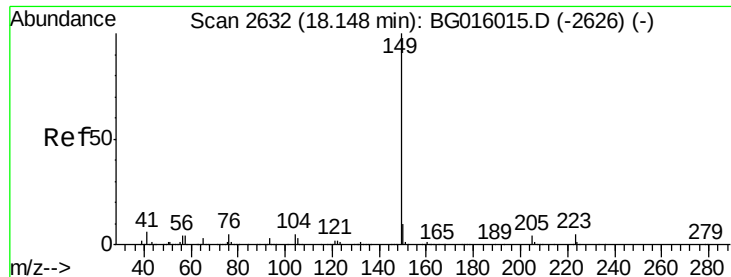
#71
 Pentachlorobenzene
 Concen: 4.36 ng/uL
 RT: 14.75 min Scan# 2053
 Delta R.T. -0.00 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion	Ratio	Lower	Upper
250	100		
248	64.8	50.5	75.7
252	59.6	50.7	76.1



Abundance Ion 250.00 (249.70 to 250.70): E
 Ion 248.00 (247.70 to 248.70): E
 Ion 252.00 (251.70 to 252.70): E





#73

Di-n-butylphthalate

Concen: 0.01 ng/ul

RT: 18.15 min Scan# 2632

Delta R.T. 0.00 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

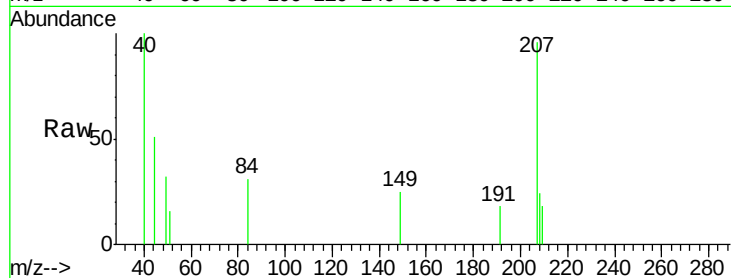
Tgt Ion:149 Resp: 221

Ion Ratio Lower Upper

149 100

150 0.0 7.6 11.4#

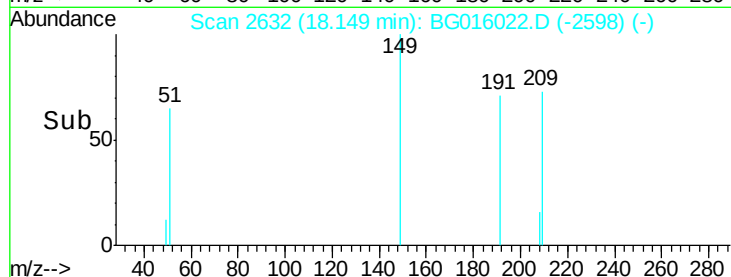
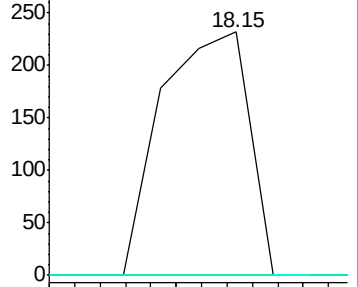
104 0.0 3.7 5.5#



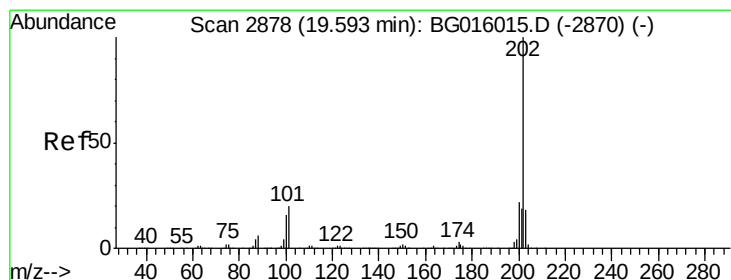
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->



#77

Pyrene

Concen: 0.04 ng/ul

RT: 19.57 min Scan# 2873

Delta R.T. -0.03 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

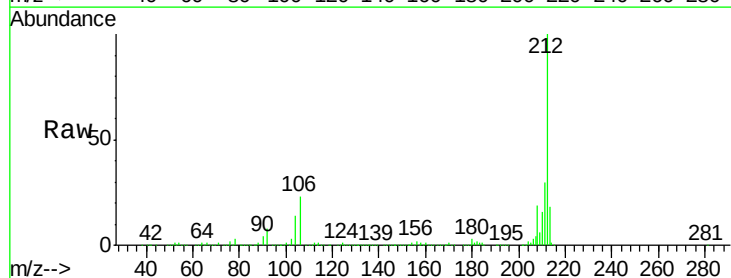
Tgt Ion:202 Resp: 1289

Ion Ratio Lower Upper

202 100

101 176.3 15.8 23.8#

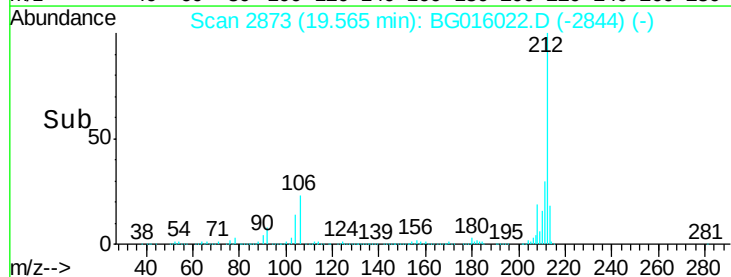
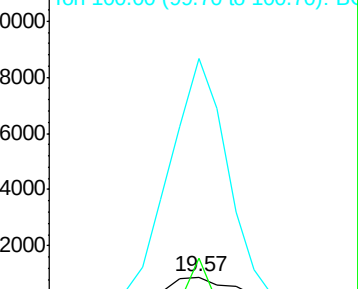
100 963.5 12.7 19.1#

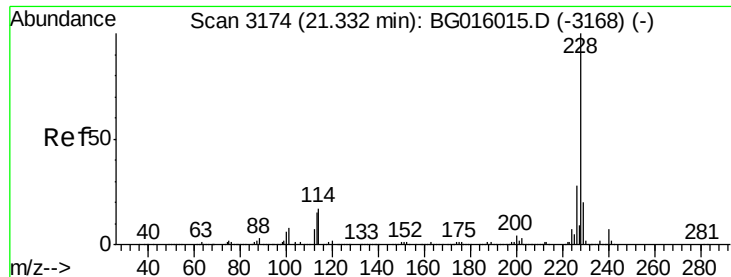


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

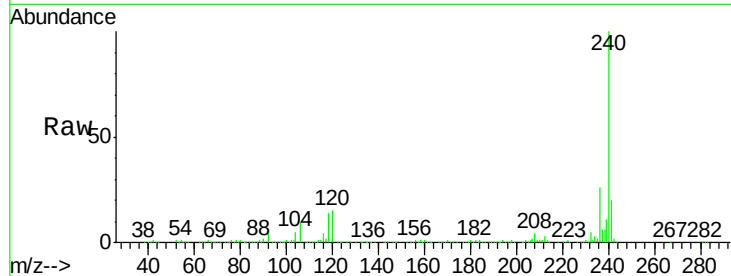
Ion 100.00 (99.70 to 100.70): E



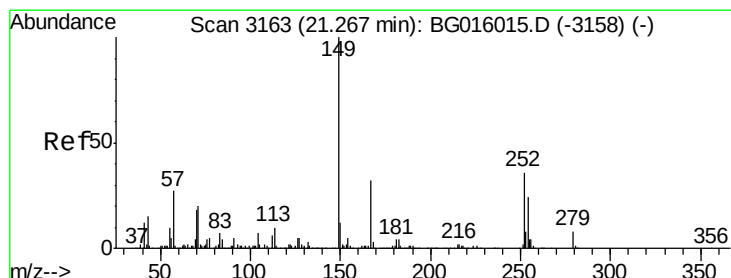
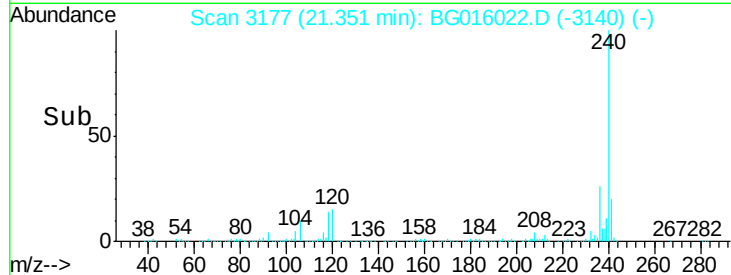
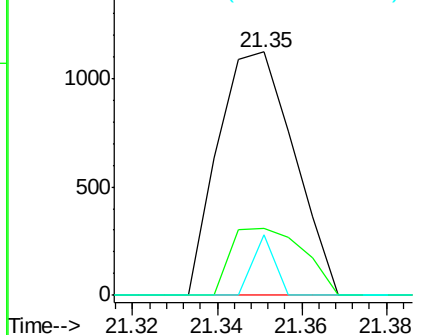


#80
 Benzo(a)anthracene
 Concen: 0.05 ng/ul
 RT: 21.35 min Scan# 3177
 Delta R.T. 0.02 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion:	228	Resp:	1397
Ion	Ratio	Lower	Upper
228	100		
229	27.2	16.4	24.6#
226	25.0	22.8	34.2

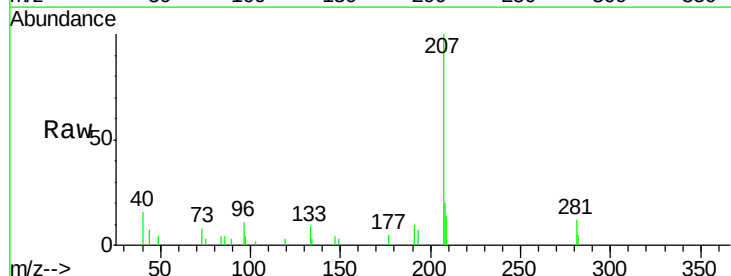


Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 229.00 (228.70 to 229.70): E
 Ion 226.00 (225.70 to 226.70): E

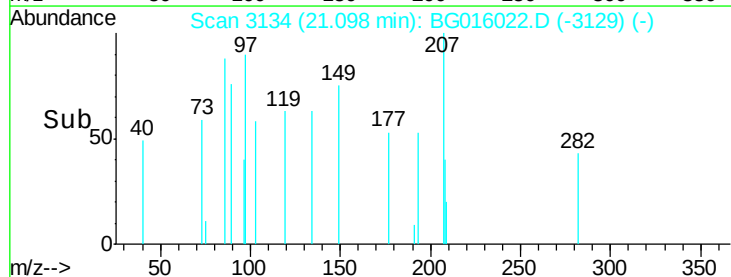
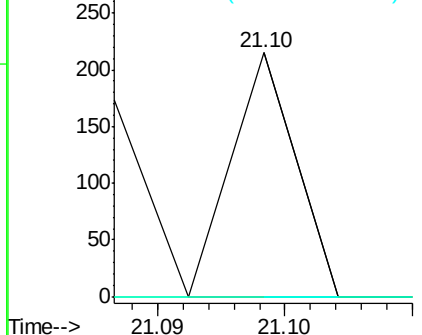


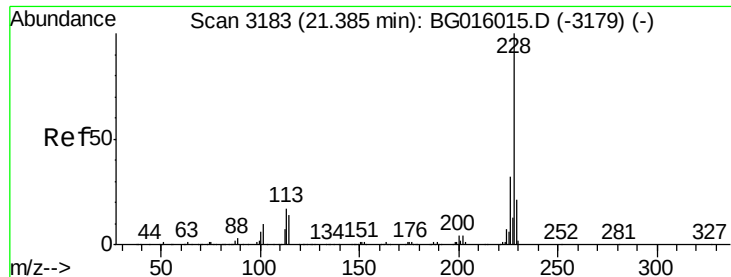
#81
 Bis(2-ethylhexyl)phthalate
 Concen: 0.00 ng/ul
 RT: 21.10 min Scan# 3134
 Delta R.T. -0.17 min
 Lab File: BG016022.D
 Acq: 20 Feb 2015 4:03

Tgt Ion:	149	Resp:	76
Ion	Ratio	Lower	Upper
149	100		
167	0.0	25.5	38.3#
279	0.0	6.0	9.0#



Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 0.05 ng/ul

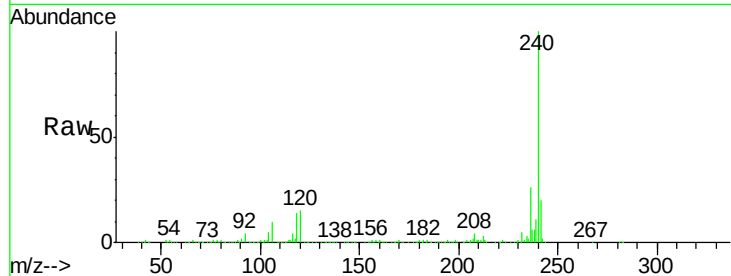
RT: 21.35 min Scan# 3177

Delta R.T. -0.03 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

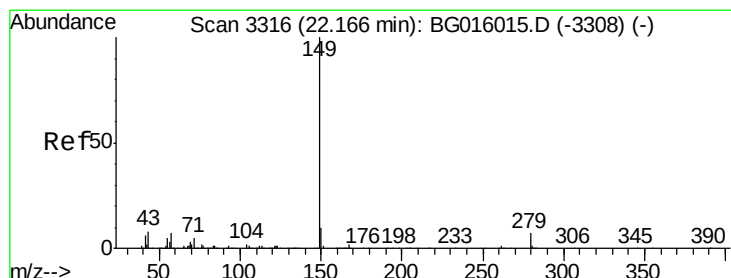
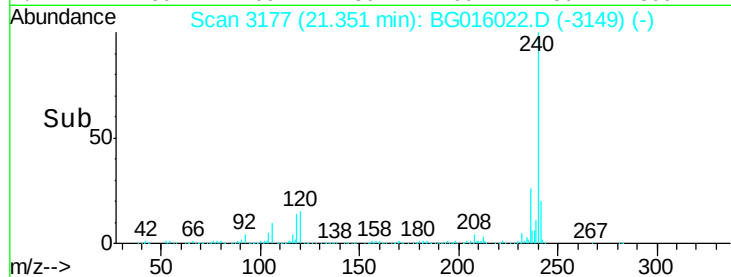
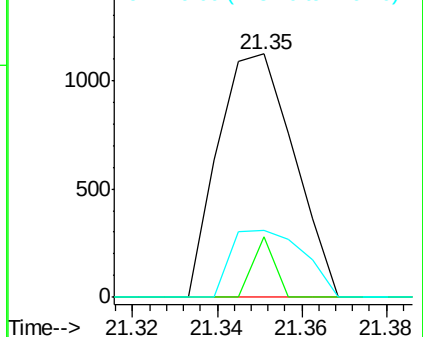
Tgt Ion:	228	Resp:	1397
Ion	Ratio	Lower	Upper
228	100		
226	25.0	24.7	37.1
229	27.2	17.0	25.6#



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



#84

Di-n-octyl phthalate

Concen: 0.00 ng/ul

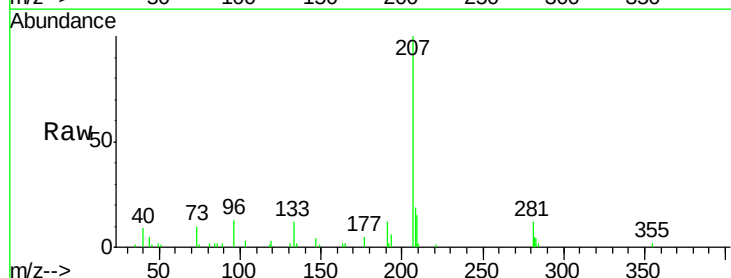
RT: 22.16 min Scan# 3315

Delta R.T. -0.00 min

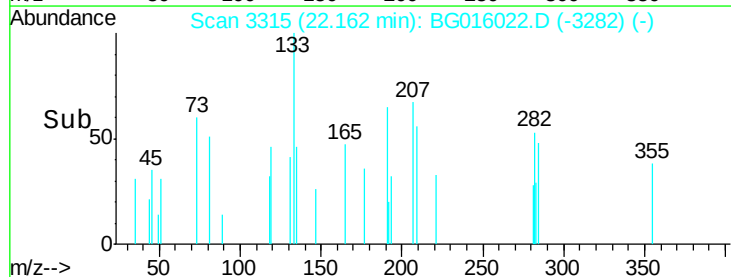
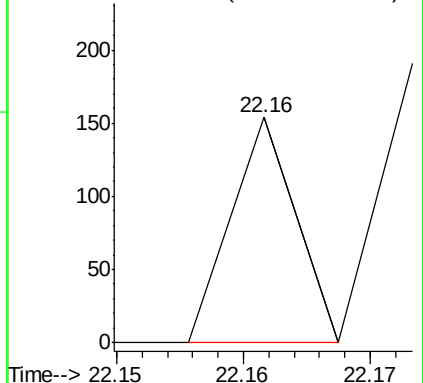
Lab File: BG016022.D

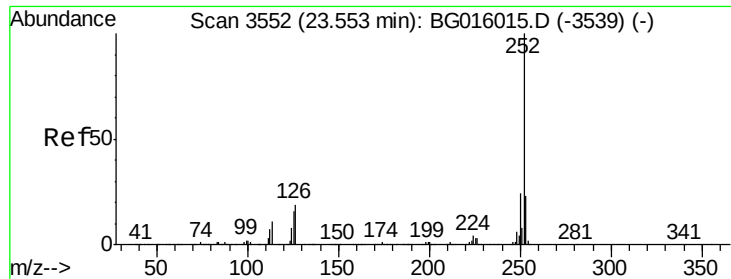
Acq: 20 Feb 2015 4:03

Tgt Ion:149 Resp: 54



Abundance Ion 149.00 (148.70 to 149.70): E





#88

Benzo(a)pyrene

Concen: 0.09 ng/ul

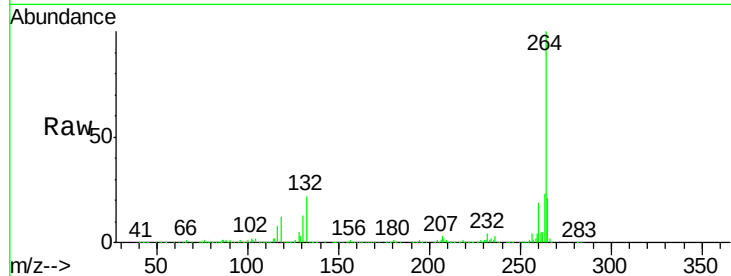
RT: 23.51 min Scan# 3544

Delta R.T. -0.05 min

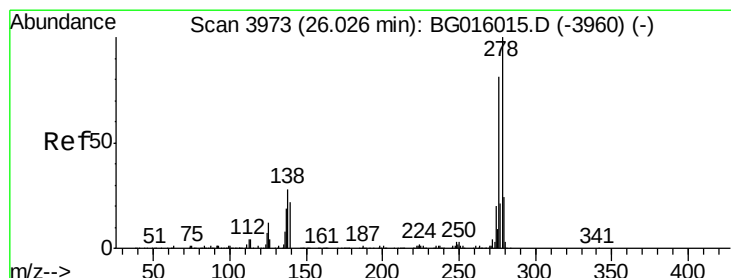
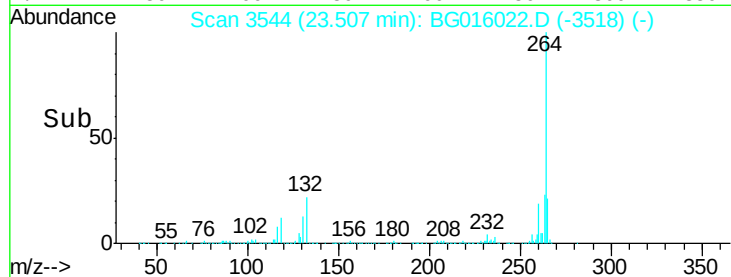
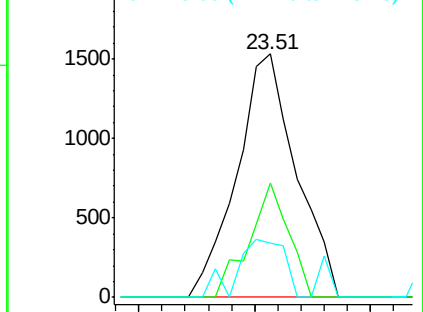
Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

Tgt Ion:	252	Resp:	2743
Ion	Ratio	Lower	Upper
252	100		
253	46.8	17.9	26.9#
125	22.4	13.2	19.8#



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



#90

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

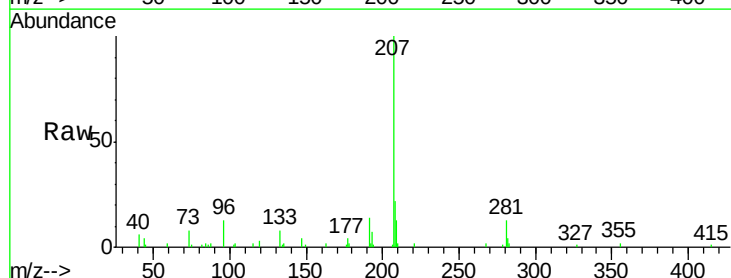
RT: 26.02 min Scan# 3971

Delta R.T. -0.01 min

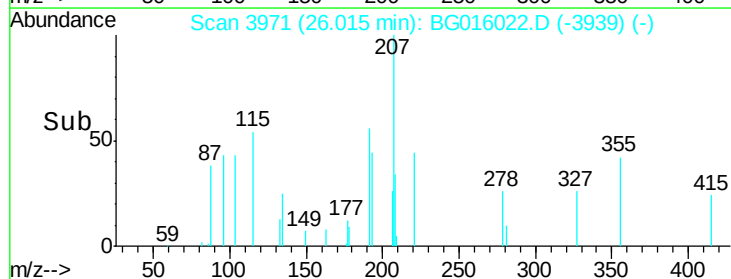
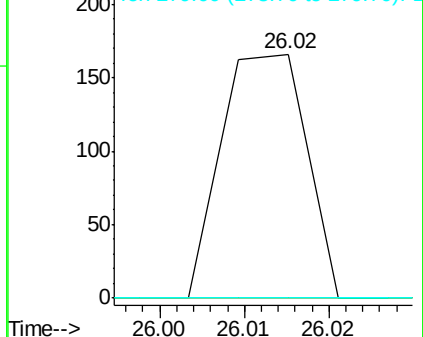
Lab File: BG016022.D

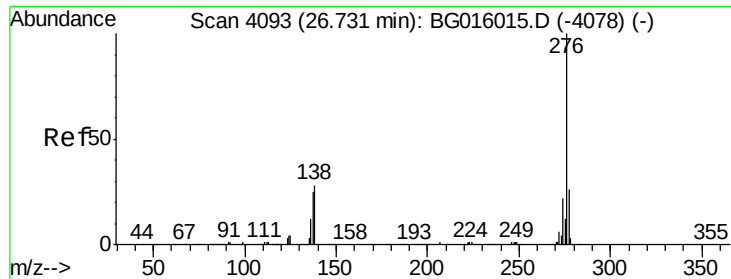
Acq: 20 Feb 2015 4:03

Tgt Ion:	278	Resp:	116
Ion	Ratio	Lower	Upper
278	100		
139	0.0	17.0	25.4#
279	0.0	19.3	28.9#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 0.01 ng/ul

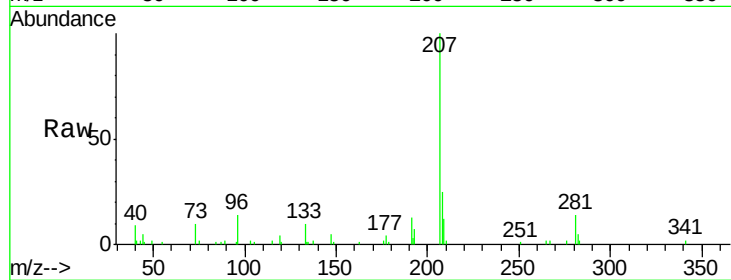
RT: 26.73 min Scan# 4092

Delta R.T. -0.00 min

Lab File: BG016022.D

Acq: 20 Feb 2015 4:03

Tgt Ion:	276	Resp:	324
Ion Ratio	Lower	Upper	
276	100		
138	0.0	23.0	34.4#
277	0.0	20.0	30.0#



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

