

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021915\
 Data File : BG016018.D
 Acq On : 20 Feb 2015 1:44
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-3PPM-SOM0
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 20 07:26:59 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	87208	20.00	ng/ul	0.00
16) Naphthalene-d8	10.60	136	388613	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.44	164	236641	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.17	188	497524	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	534537	20.00	ng/ul	0.00
83) Perylene-d12	23.65	264	521186	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.97	99	272496	32.84	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.15	67	171168	34.93	ng/ul	0.00
7) 2-Chlorophenol-d4	7.34	132	210684	34.32	ng/ul	0.00
11) 4-Methylphenol-d8	8.51	113	207987	33.87	ng/ul	0.00
17) Nitrobenzene-d5	8.97	128	104194	37.94	ng/ul	0.00
20) 2-Nitrophenol-d4	9.68	143	95214	37.58	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.21	165	178544	32.49	ng/ul	0.00
27) 4-Chloroaniline-d4	10.73	131	323715	53.47	ng/ul	0.00
41) Dimethylphthalate-d6	13.85	166	579348	36.62	ng/ul	0.00
44) Acenaphthylene-d8	14.13	160	765051	34.17	ng/ul	0.00
49) 4-Nitrophenol-d4	14.62	143	92512	29.08	ng/ul	0.00
55) Fluorene-d10	15.43	176	552644	34.75	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.54	200	40684	21.21	ng/ul	0.00
68) Anthracene-d10	17.27	188	845760	35.84	ng/ul	0.00
76) Pyrene-d10	19.56	212	909933	36.24	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.51	264	848407	35.90	ng/ul	0.00

Target Compounds

					Qvalue
2) Benzaldehyde	6.98	77	240	0.05 ng/ul#	1
6) Bis(2-Chloroethyl)ether	7.23	93	1209	0.18 ng/ul	95
10) 2,2'-oxybis(1-Chloropropan	8.50	45	1319	0.15 ng/ul#	67
13) N-Nitroso-di-n-propylamine	8.51	70	4892	0.93 ng/ul#	1
18) Nitrobenzene	8.96	77	472	0.07 ng/ul#	27
19) Isophorone	9.68	82	5639	0.40 ng/ul#	60
26) Naphthalene	10.74	128	239	0.01 ng/ul#	1
30) Caprolactam	11.55	113	123	0.05 ng/ul#	1
34) 1,2,4,5-Tetrachlorobenzene	12.63	216	206	0.03 ng/ul#	25
42) Dimethylphthalate	13.84	163	306	0.02 ng/ul#	1
50) 4-Nitrophenol	14.75	109	1213	0.66 ng/ul#	1
56) Fluorene	15.43	166	1378	0.07 ng/ul#	23
58) 4-Nitroaniline	15.43	138	123	0.03 ng/ul#	1
62) N-Nitrosodiphenylamine	15.54	169	74	0.00 ng/ul#	23
69) Anthracene	17.28	178	227	0.01 ng/ul#	1
70) 1,2,3,4-Tetrachlorobenzene	13.23	216	16048	2.54 ng/uL	94
71) Pentachlorobenzene	14.75	250	31982	5.16 ng/uL	92
73) Di-n-butylphthalate	18.14	149	474	0.02 ng/ul#	78
77) Pyrene	19.57	202	1405	0.04 ng/ul#	1
80) Benzo(a)anthracene	21.35	228	1279	0.04 ng/ul#	69
82) Chrysene	21.35	228	1279	0.05 ng/ul#	66
84) Di-n-octyl phthalate	22.16	149	61	0.00 ng/ul	100
86) Benzo(k)fluoranthene	23.12	252	116	0.00 ng/ul#	1
88) Benzo(a)pyrene	23.54	252	70	0.00 ng/ul#	57

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Misc : MDL-SOIL-3PPM-SOM0
ALS Vial : 18 Sample Multiplier: 1

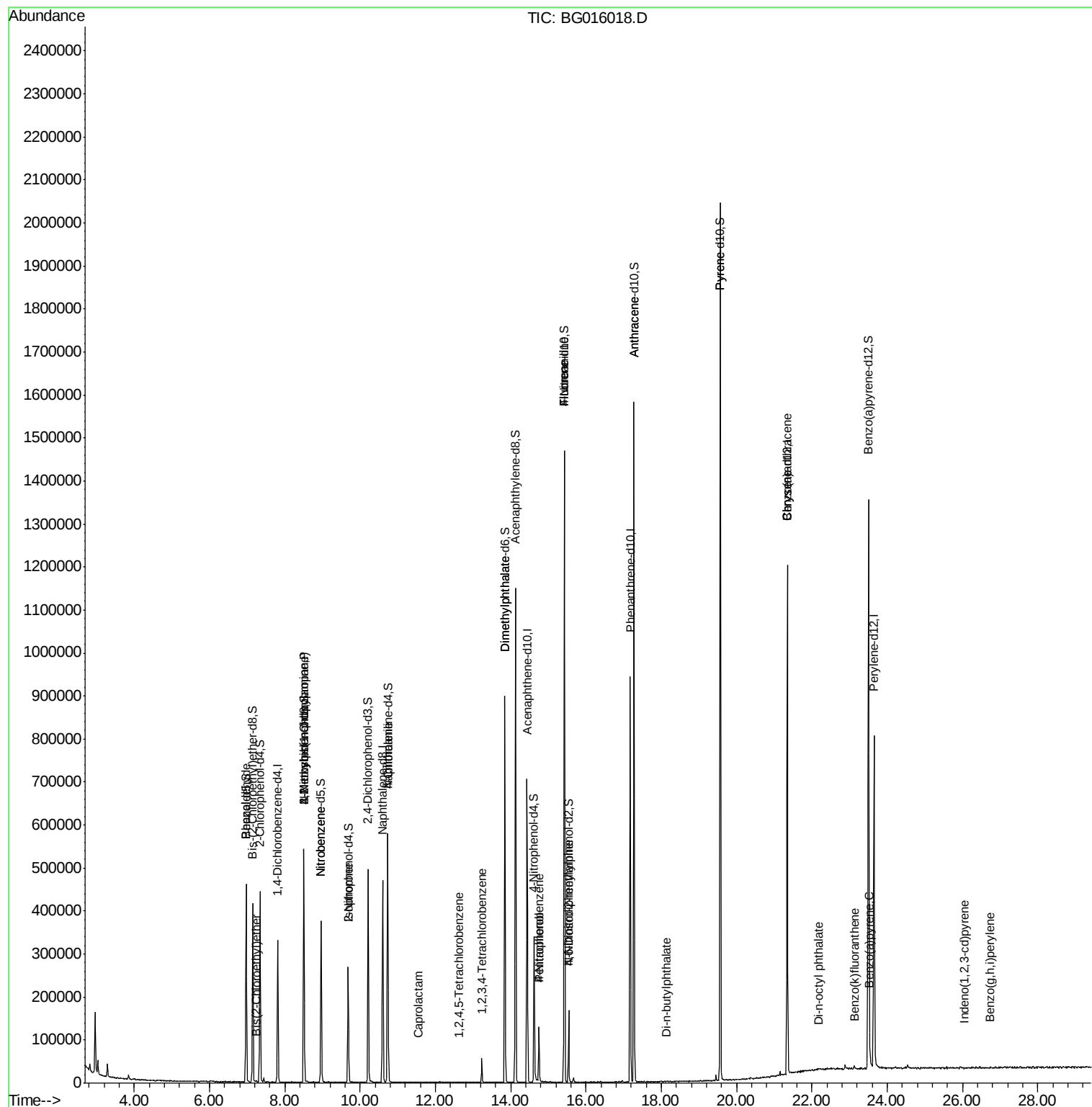
Quant Time: Feb 20 07:26:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Feb 20 07:16:53 2015
Response via : Initial Calibration

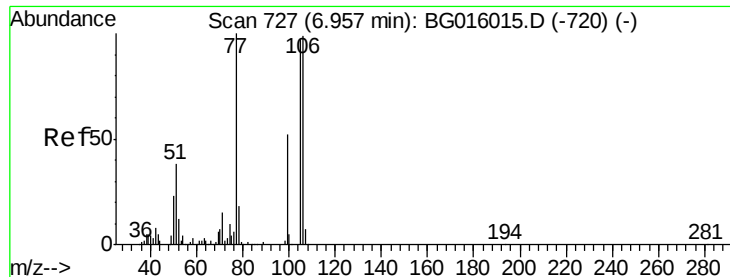
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	26.04	276	78	0.00	ng/ul#	45
91) Benzo(g,h,i)perylene	26.73	276	146	0.01	ng/ul#	48

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

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#2

Benzaldehyde

Concen: 0.05 ng/ul

RT: 6.98 min Scan# 730

Delta R.T. 0.02 min

Lab File: BG016018.D

Acq: 20 Feb 2015 1:44

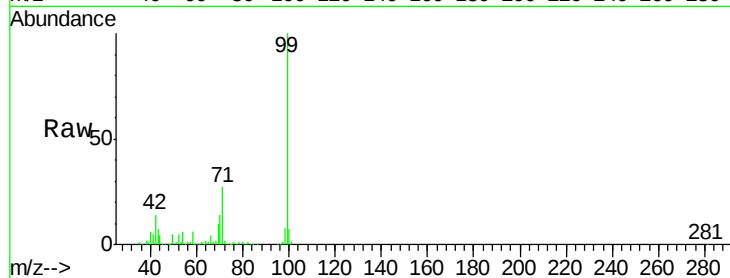
Tgt Ion: 77 Resp: 240

Ion Ratio Lower Upper

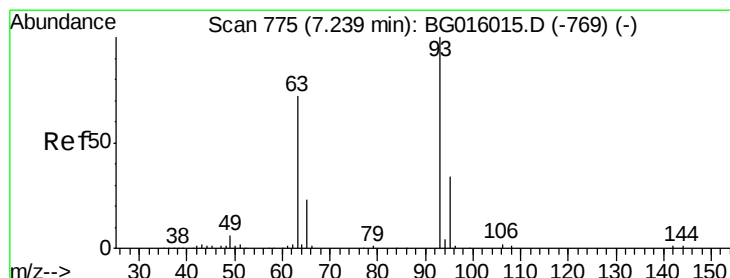
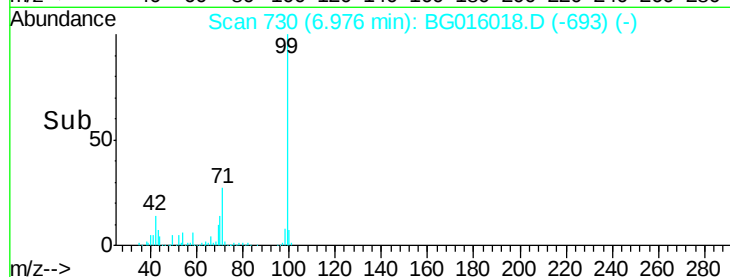
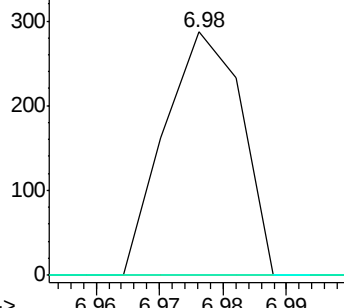
77 100

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

Bis(2-Chloroethyl)ether

Concen: 0.18 ng/ul

RT: 7.23 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG016018.D

Acq: 20 Feb 2015 1:44

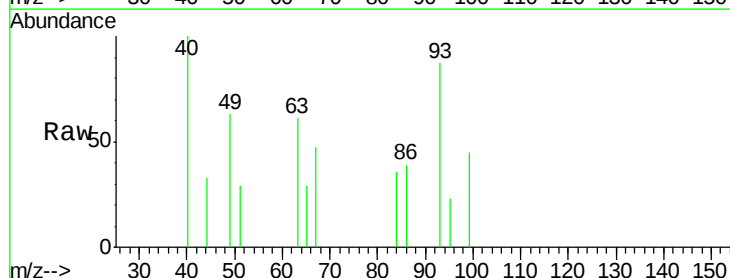
Tgt Ion: 93 Resp: 1209

Ion Ratio Lower Upper

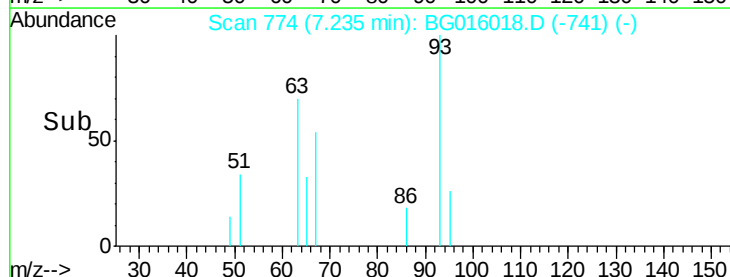
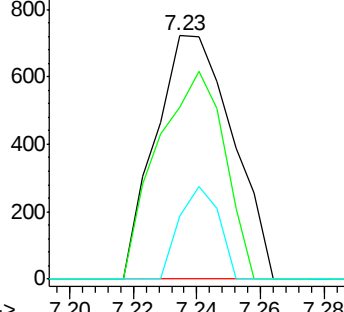
93 100

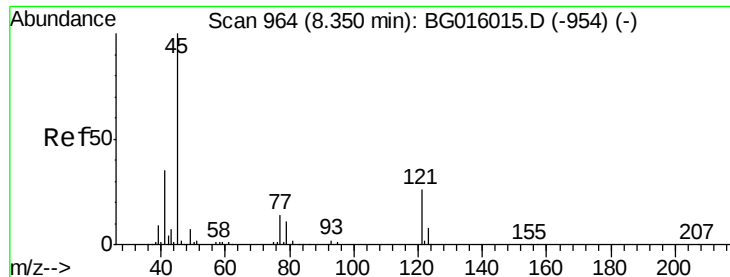
63 70.5 57.5 86.3

95 25.9 25.8 38.6



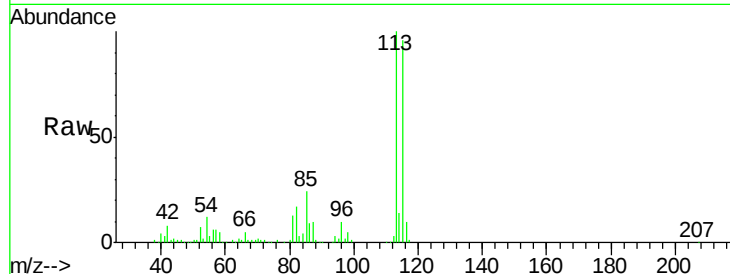
Abundance Ion 93.00 (92.70 to 93.70): BGC
Ion 63.00 (62.70 to 63.70): BGC
Ion 95.00 (94.70 to 95.70): BGC



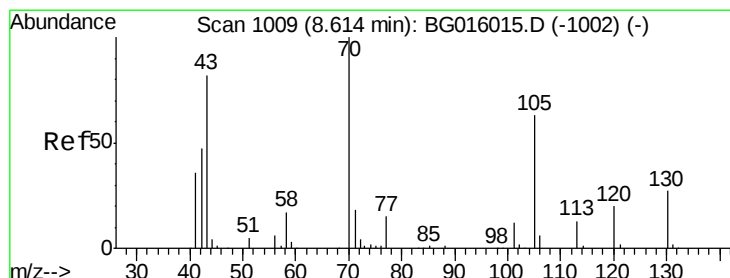
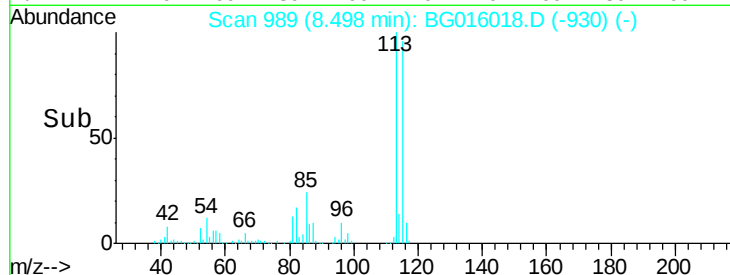
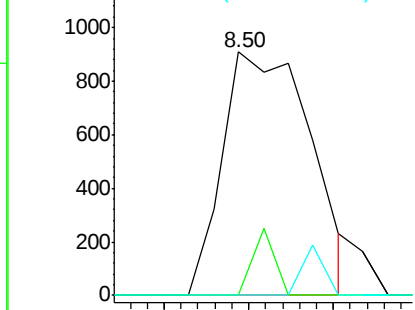


#10
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.15 ng/ul
 RT: 8.50 min Scan# 989
 Delta R.T. 0.15 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

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

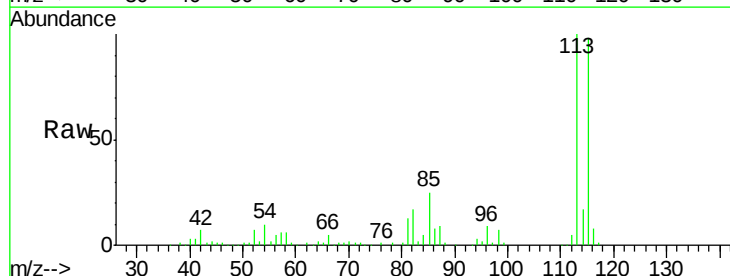


Abundance Ion 45.00 (44.70 to 45.70): BGC
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 79.00 (78.70 to 79.70): BGC

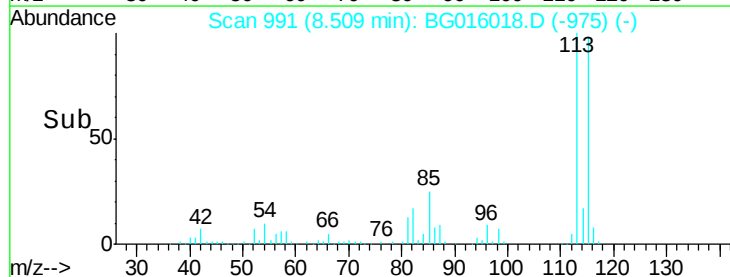
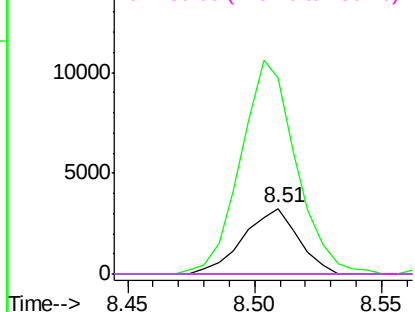


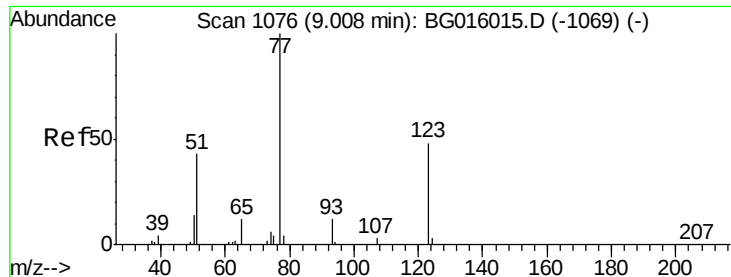
#13
 N-Nitroso-di-n-propylamine
 Concen: 0.93 ng/ul
 RT: 8.51 min Scan# 991
 Delta R.T. -0.10 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion	Ratio	Lower	Upper
70	100		
42	299.3	37.8	56.6#
101	0.0	9.3	13.9#
130	0.0	22.2	33.2#



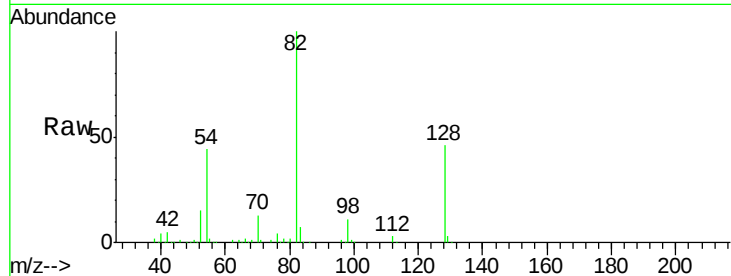
Abundance Ion 70.00 (69.70 to 70.70): BGC
 Ion 42.00 (41.70 to 42.70): BGC
 Ion 101.00 (100.70 to 101.70): BGC
 Ion 130.00 (129.70 to 130.70): BGC



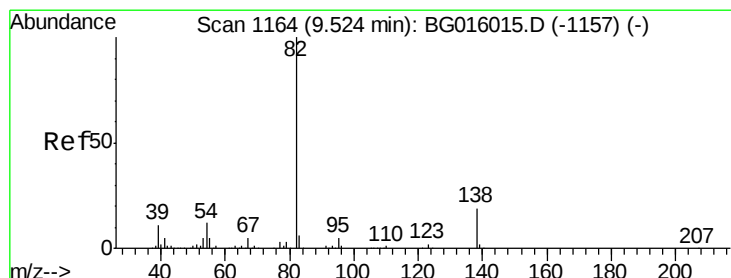
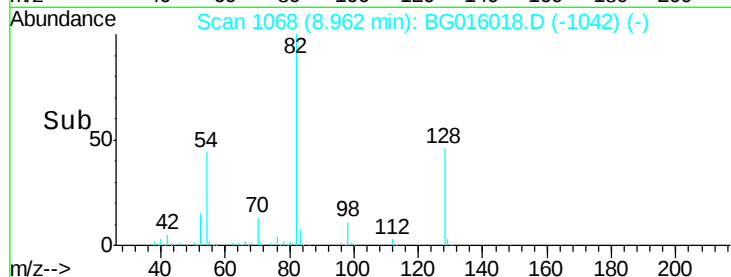
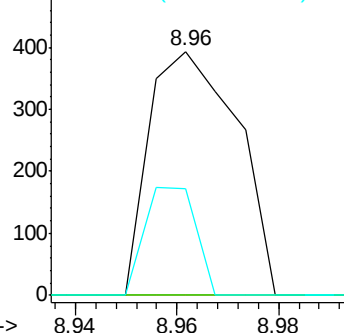


#18
Nitrobenzene
Concen: 0.07 ng/ul
RT: 8.96 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion: 77 Resp: 472
Ion Ratio Lower Upper
77 100
123 0.0 39.9 59.9#
65 43.5 11.0 16.6#

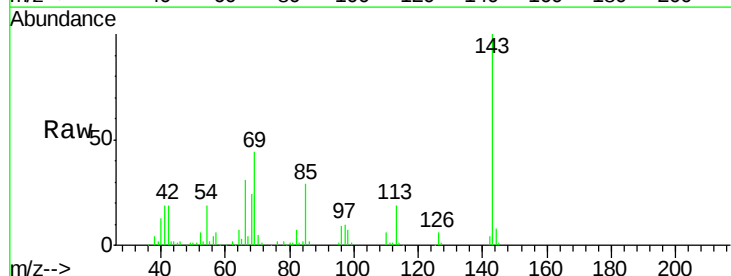


Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): BGC
Ion 65.00 (64.70 to 65.70): BGC

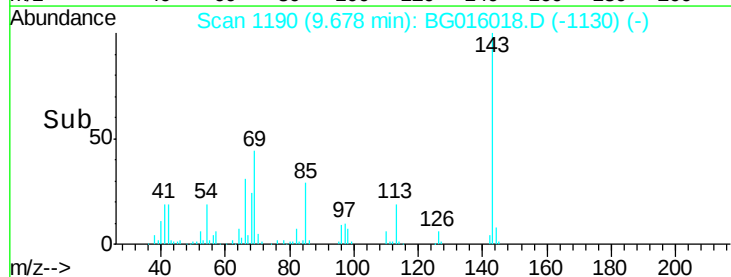
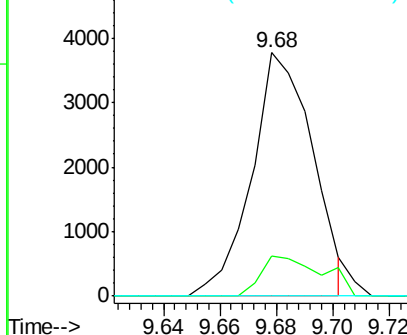


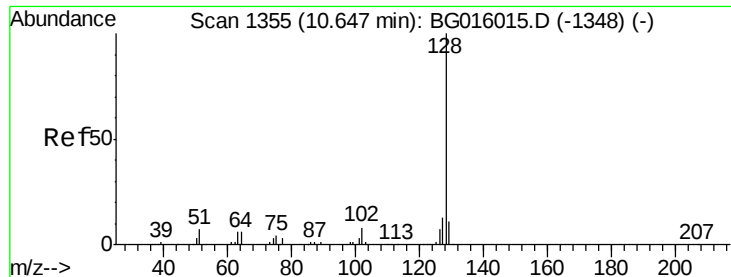
#19
Isophorone
Concen: 0.40 ng/ul
RT: 9.68 min Scan# 1190
Delta R.T. 0.15 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion: 82 Resp: 5639
Ion Ratio Lower Upper
82 100
95 16.5 4.6 6.8#
138 0.0 15.4 23.2#



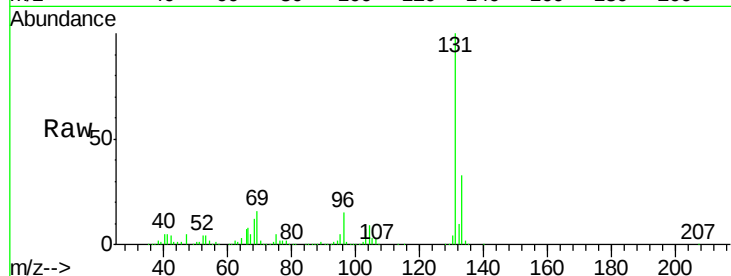
Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 95.00 (94.70 to 95.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



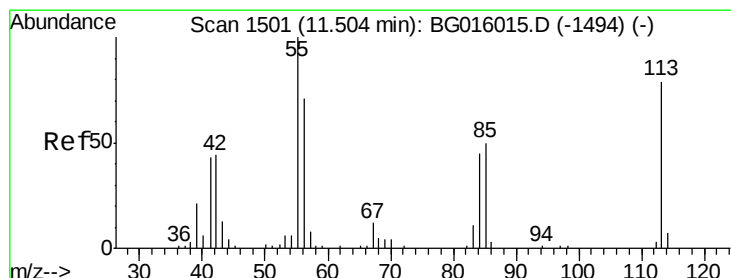
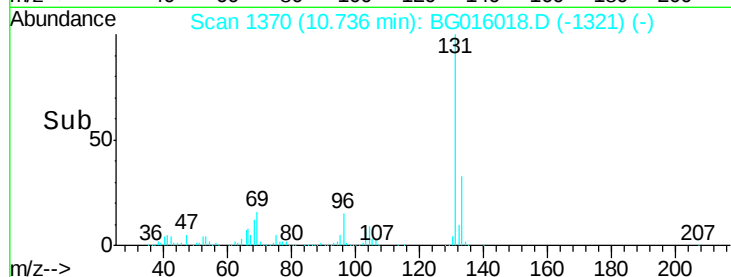
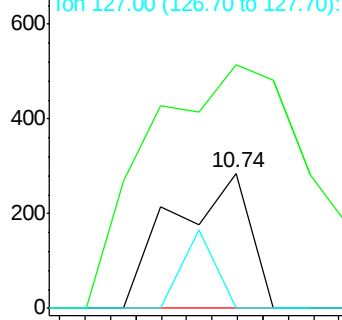


#26
Naphthalene
Concen: 0.01 ng/ul
RT: 10.74 min Scan# 1370
Delta R.T. 0.09 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion:128 Resp: 239
Ion Ratio Lower Upper
128 100
129 179.7 8.7 13.1#
127 0.0 10.4 15.6#

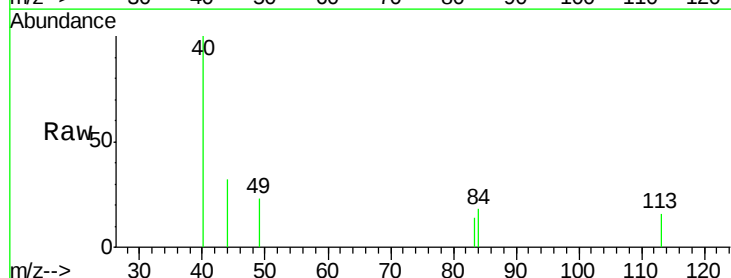


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

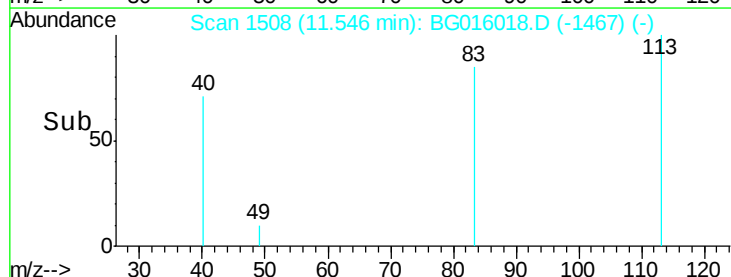
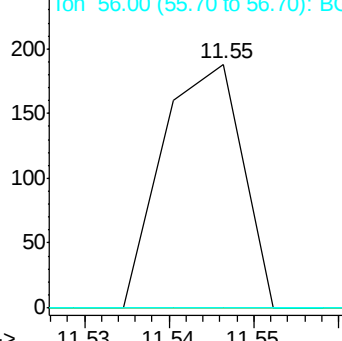


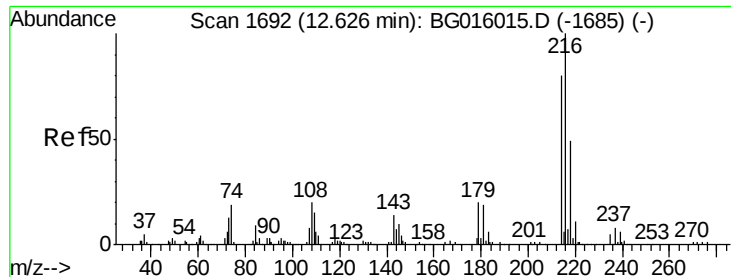
#30
Caprolactam
Concen: 0.05 ng/ul
RT: 11.55 min Scan# 1508
Delta R.T. 0.04 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion:113 Resp: 123
Ion Ratio Lower Upper
113 100
55 0.0 101.4 152.2#
56 0.0 71.0 106.6#



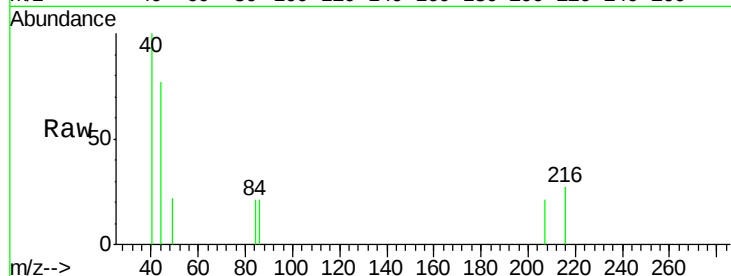
Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BG0
Ion 56.00 (55.70 to 56.70): BG0



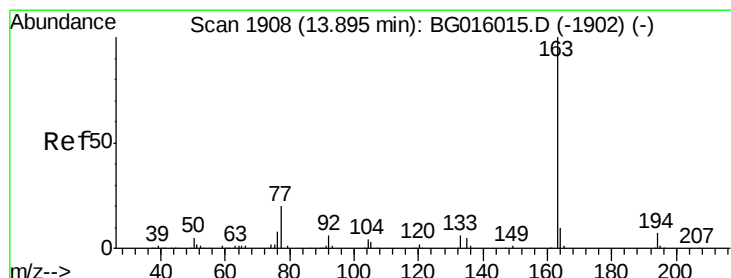
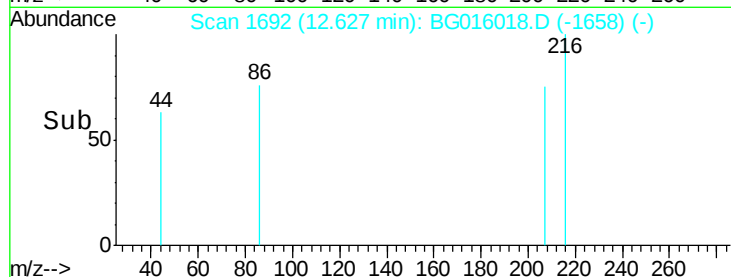
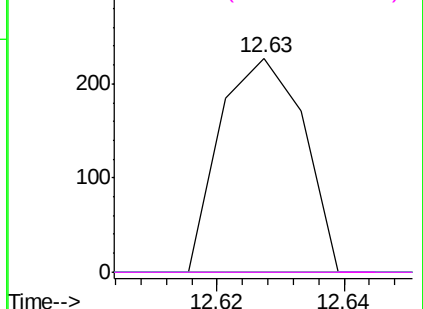


#34
 1,2,4,5-Tetrachlorobenzene
 Concen: 0.03 ng/ul
 RT: 12.63 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion:	216	Resp:	206
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#

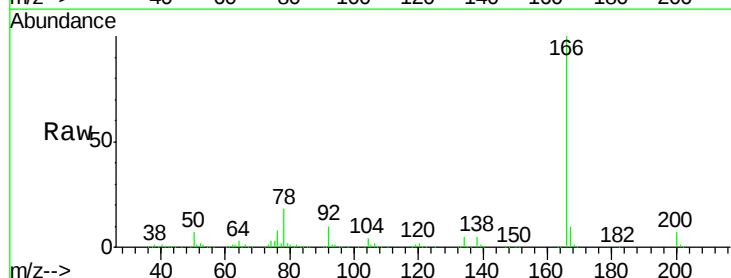


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 108.00 (107.70 to 108.70): E

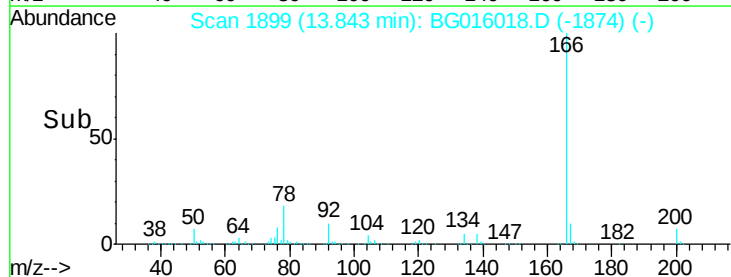
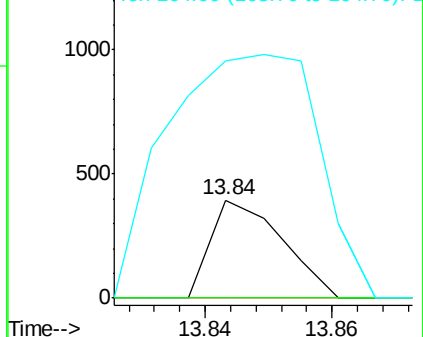


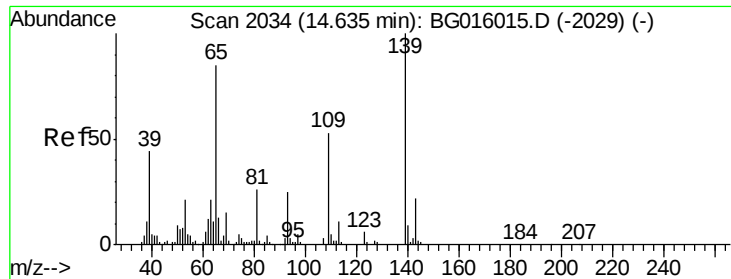
#42
 Dimethylphthalate
 Concen: 0.02 ng/ul
 RT: 13.84 min Scan# 1899
 Delta R.T. -0.05 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion:	163	Resp:	306
Ion	Ratio	Lower	Upper
163	100		
194	0.0	5.3	7.9#
164	241.2	8.5	12.7#



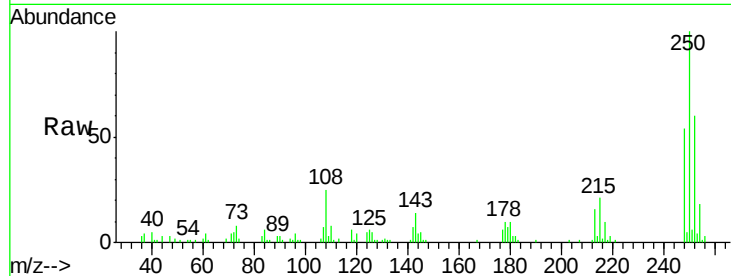
Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E



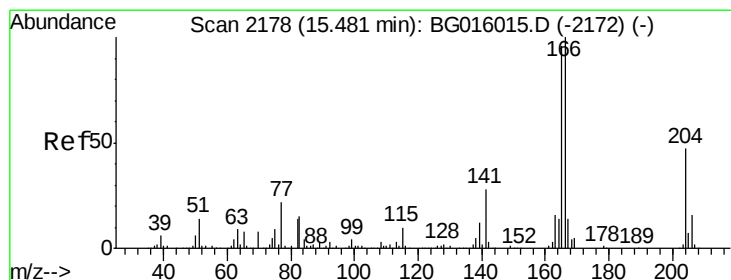
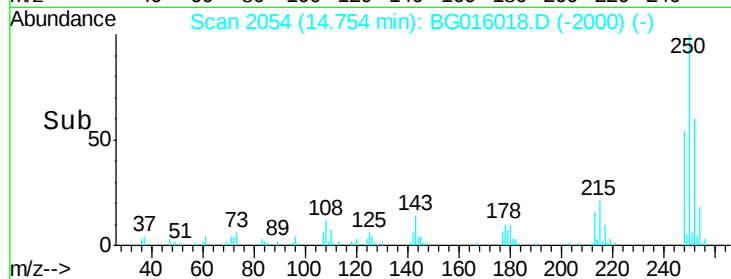
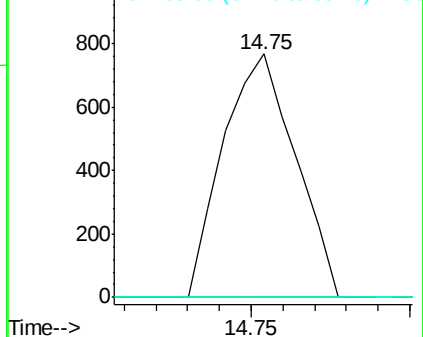


#50
4-Nitrophenol
Concen: 0.66 ng/ul
RT: 14.75 min Scan# 2054
Delta R.T. 0.12 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

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

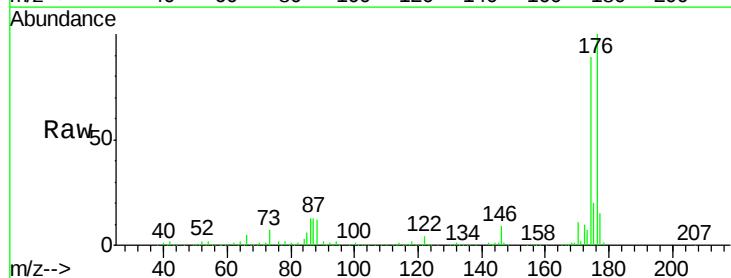


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B

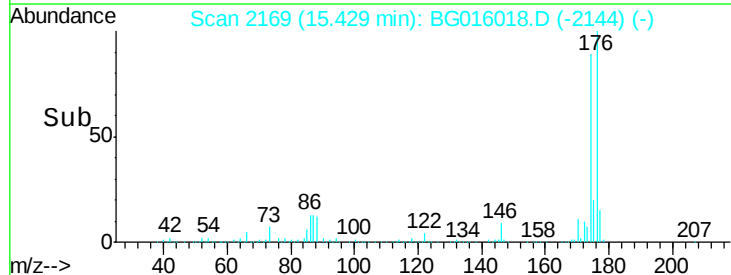
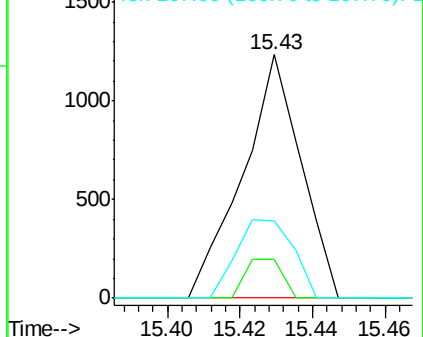


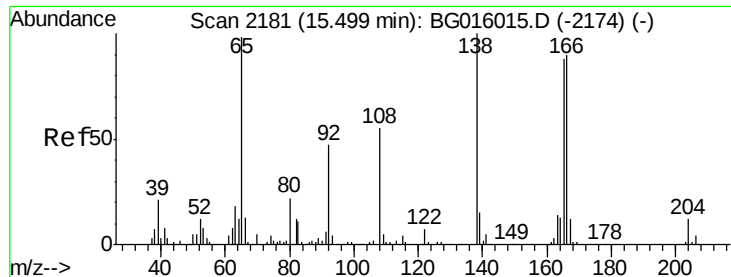
#56
Fluorene
Concen: 0.07 ng/ul
RT: 15.43 min Scan# 2169
Delta R.T. -0.05 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	15.7	75.4	113.2#
167	31.7	11.0	16.4#



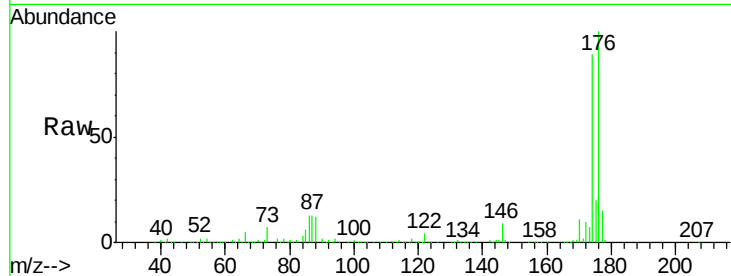
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



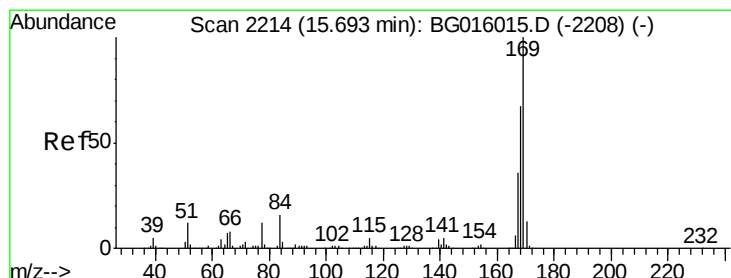
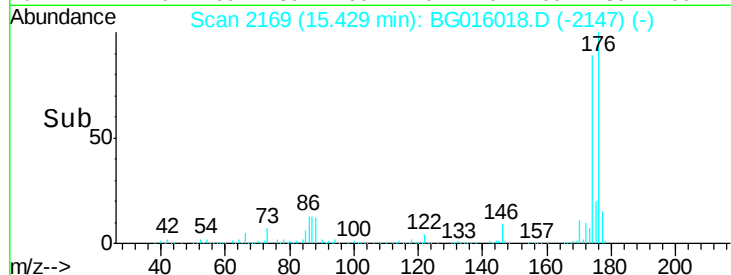
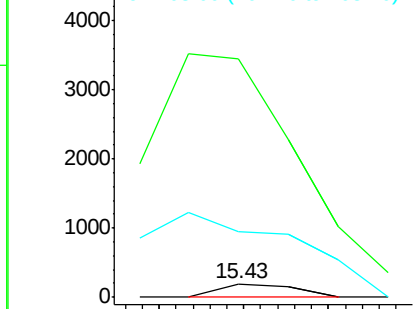


#58
4-Nitroaniline
Concen: 0.03 ng/ul
RT: 15.43 min Scan# 2169
Delta R.T. -0.07 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion:138 Resp: 123
Ion Ratio Lower Upper
138 100
92 1777.3 38.1 57.1#
108 492.8 46.4 69.6#

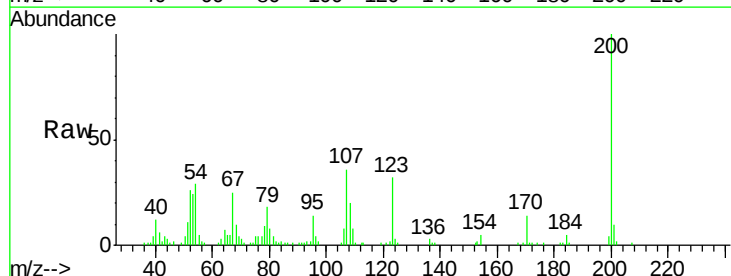


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BG016018.D (-2174) (-)
Ion 108.00 (107.70 to 108.70): E

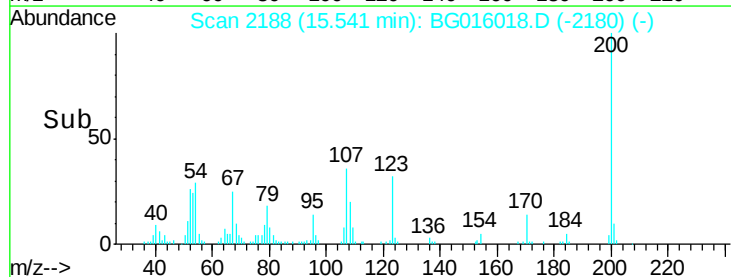
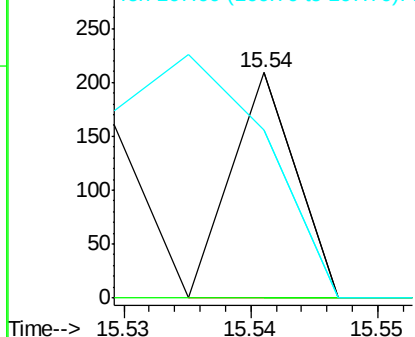


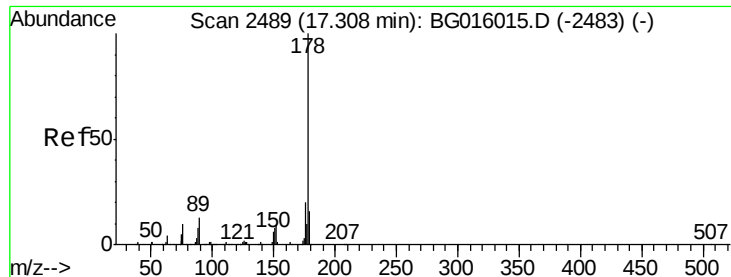
#62
N-Nitrosodiphenylamine
Concen: 0.00 ng/ul
RT: 15.54 min Scan# 2188
Delta R.T. -0.15 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion:169 Resp: 74
Ion Ratio Lower Upper
169 100
168 0.0 53.8 80.8#
167 74.6 29.2 43.8#



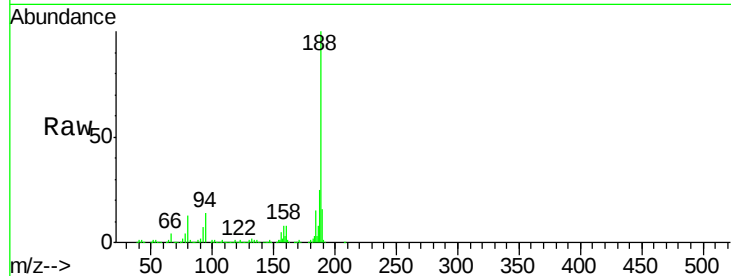
Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E



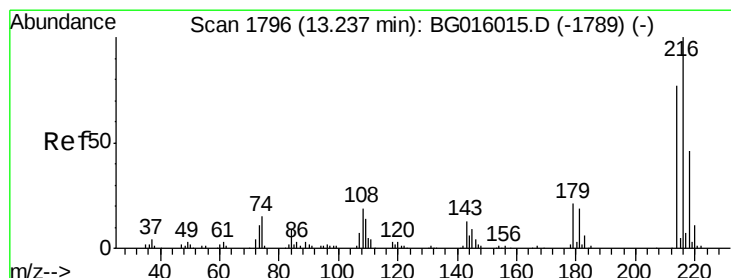
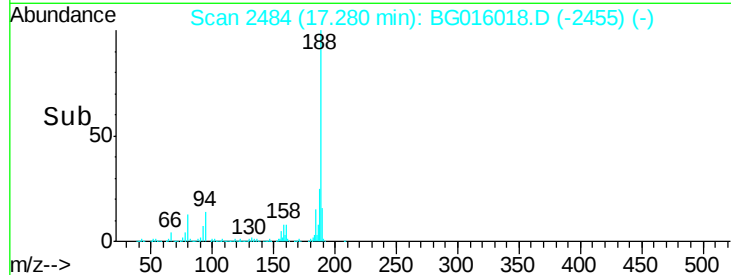
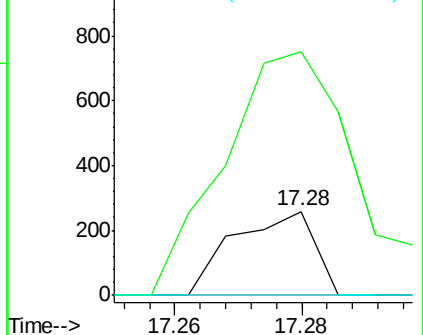


#69
 Anthracene
 Concen: 0.01 ng/uL
 RT: 17.28 min Scan# 2484
 Delta R.T. -0.03 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion: 178 Resp: 227
 Ion Ratio Lower Upper
 178 100
 179 290.0 12.9 19.3#
 176 0.0 15.7 23.5#

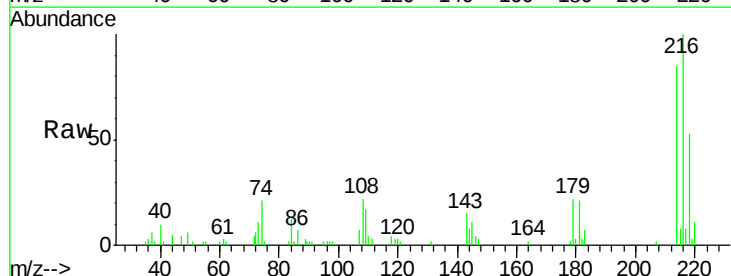


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E

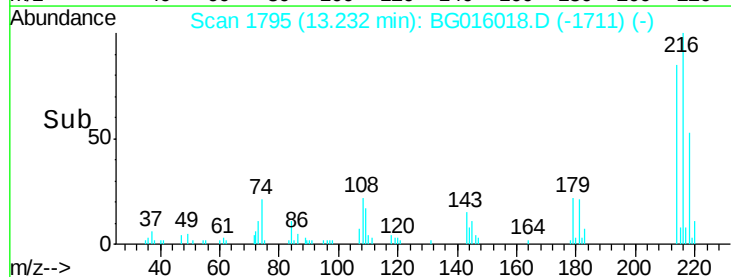
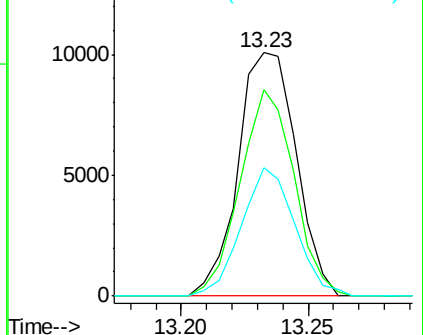


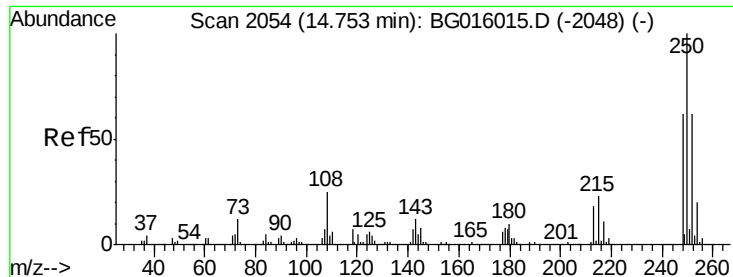
#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 2.54 ng/uL
 RT: 13.23 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion: 216 Resp: 16048
 Ion Ratio Lower Upper
 216 100
 214 84.8 64.5 96.7
 218 52.6 37.9 56.9



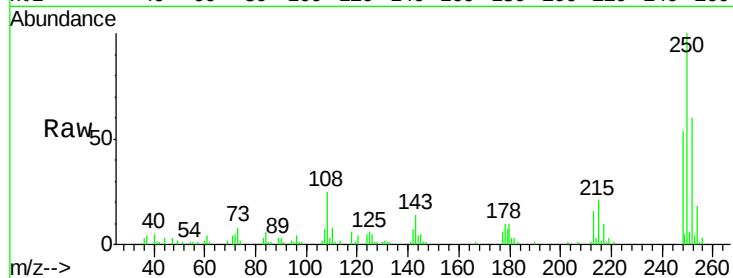
Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 218.00 (217.70 to 218.70): E



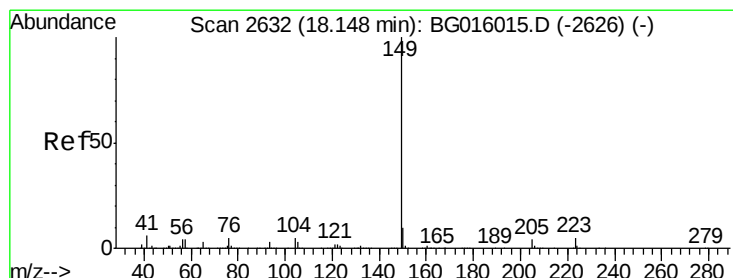
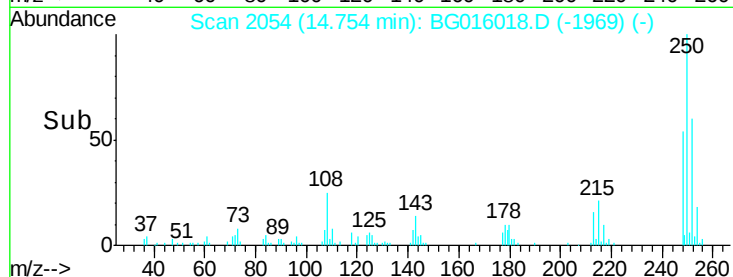
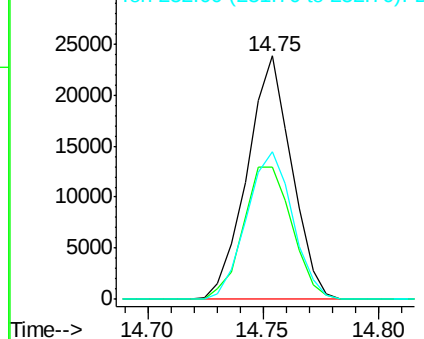


#71
 Pentachlorobenzene
 Concen: 5.16 ng/uL
 RT: 14.75 min Scan# 2054
 Delta R.T. 0.00 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion: 250 Resp: 31982
 Ion Ratio Lower Upper
 250 100
 248 54.2 50.5 75.7
 252 60.4 50.7 76.1

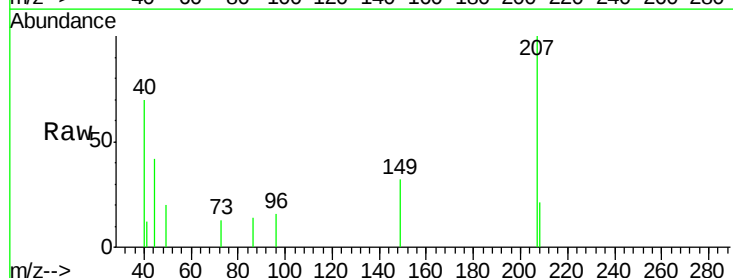


Abundance Ion 250.00 (249.70 to 250.70): E
 Ion 248.00 (247.70 to 248.70): E
 Ion 252.00 (251.70 to 252.70): E

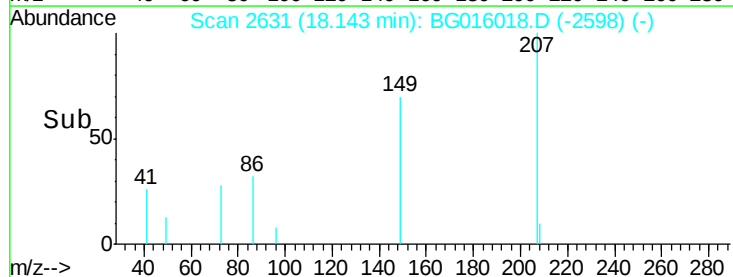
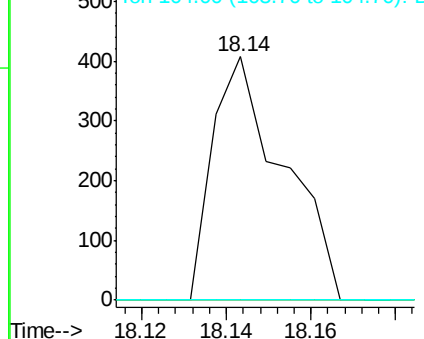


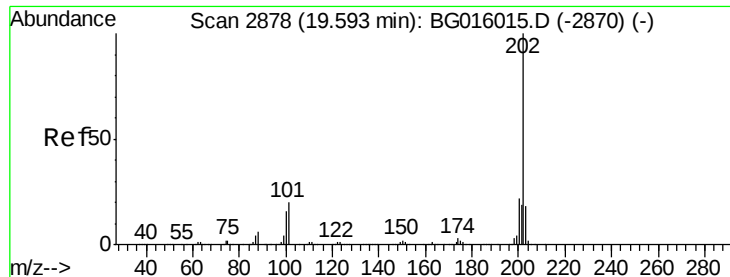
#73
 Di-n-butylphthalate
 Concen: 0.02 ng/uL
 RT: 18.14 min Scan# 2631
 Delta R.T. -0.00 min
 Lab File: BG016018.D
 Acq: 20 Feb 2015 1:44

Tgt Ion: 149 Resp: 474
 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





#77

Pyrene

Concen: 0.04 ng/ul

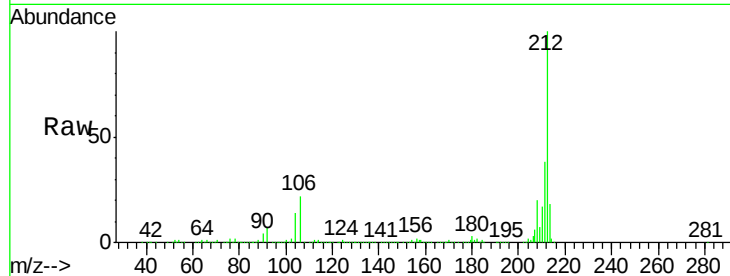
RT: 19.57 min Scan# 2874

Delta R.T. -0.02 min

Lab File: BG016018.D

Acq: 20 Feb 2015 1:44

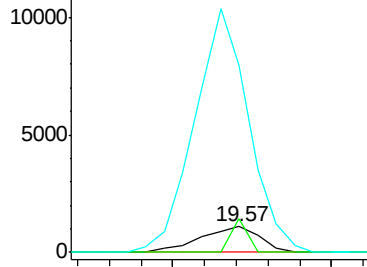
Tgt Ion:	202	Resp:	1405
Ion	Ratio	Lower	Upper
202	100		
101	129.9	15.8	23.8#
100	725.3	12.7	19.1#



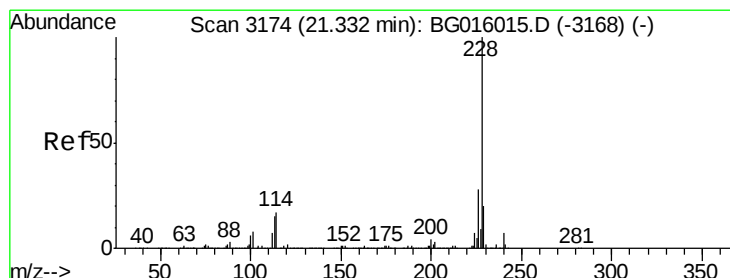
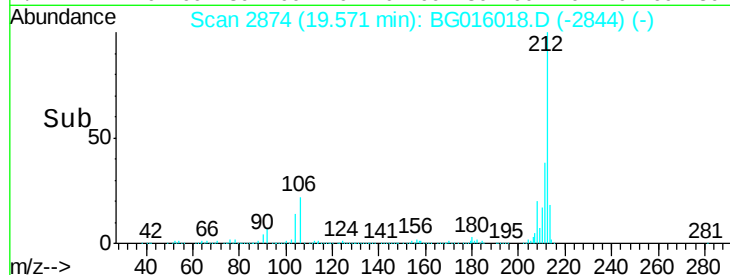
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time-->



#80

Benzo(a)anthracene

Concen: 0.04 ng/ul

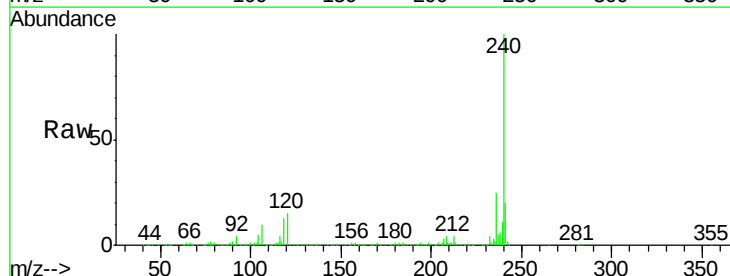
RT: 21.35 min Scan# 3177

Delta R.T. 0.02 min

Lab File: BG016018.D

Acq: 20 Feb 2015 1:44

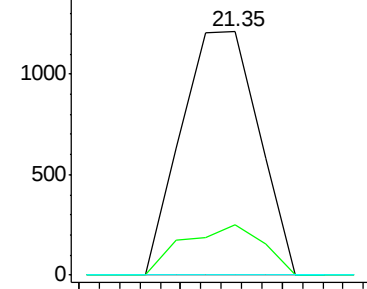
Tgt Ion:	228	Resp:	1279
Ion	Ratio	Lower	Upper
228	100		
229	20.5	16.4	24.6
226	0.0	22.8	34.2#



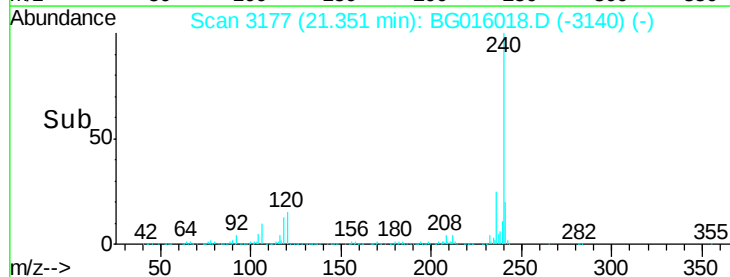
Abundance Ion 228.00 (227.70 to 228.70): E

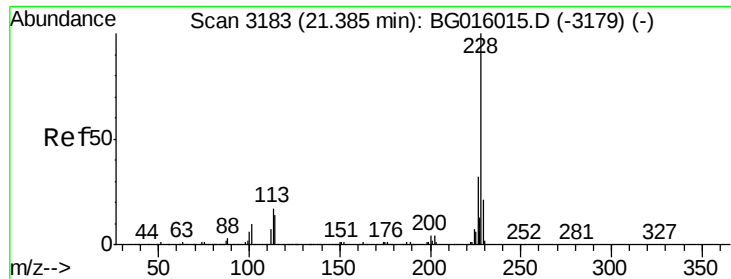
Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



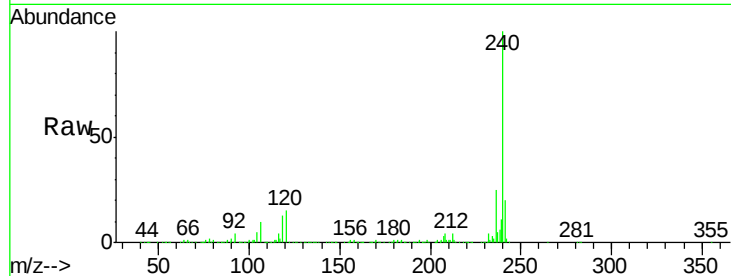
Time-->



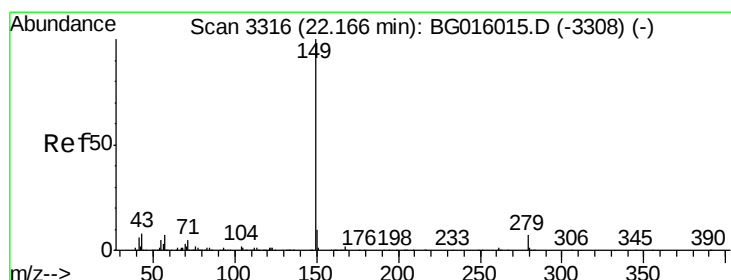
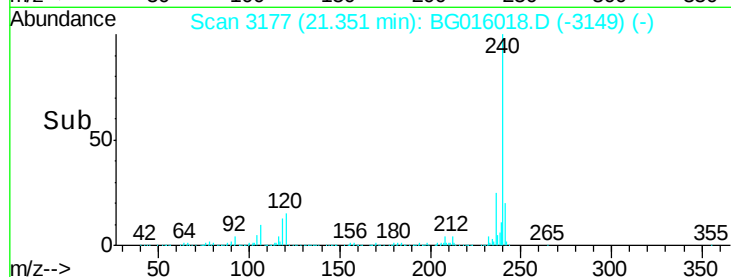
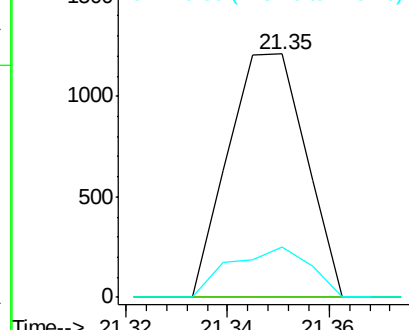


#82
Chrysene
Concen: 0.05 ng/ul
RT: 21.35 min Scan# 3177
Delta R.T. -0.03 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion: 228 Resp: 1279
Ion Ratio Lower Upper
228 100
226 0.0 24.7 37.1#
229 20.5 17.0 25.6

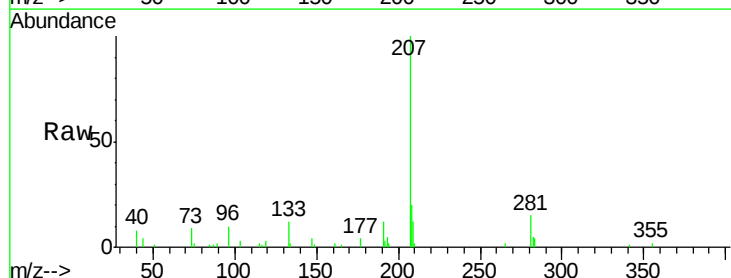


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

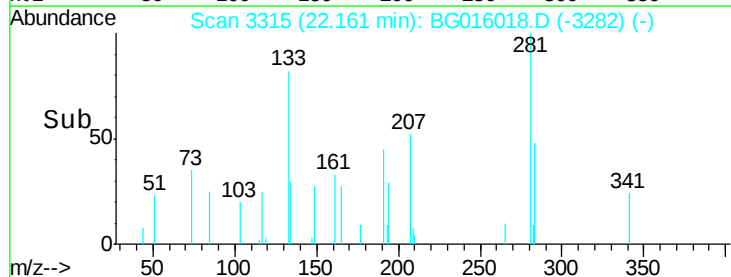
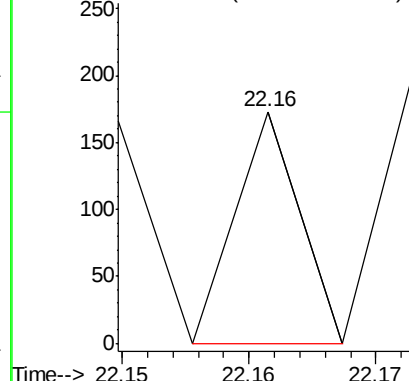


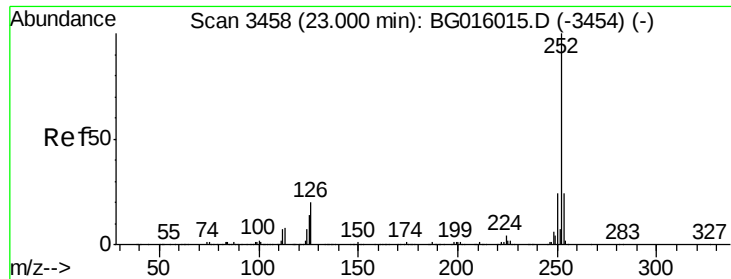
#84
Di-n-octyl phthalate
Concen: 0.00 ng/ul
RT: 22.16 min Scan# 3315
Delta R.T. -0.00 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion: 149 Resp: 61



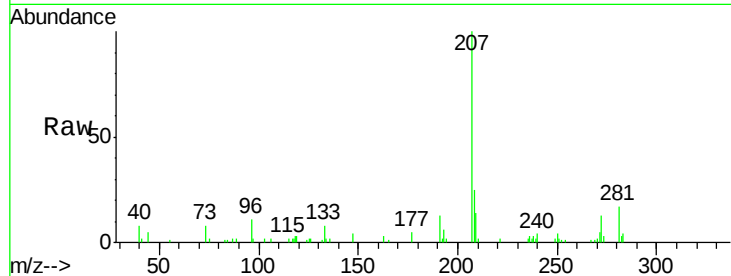
Abundance Ion 149.00 (148.70 to 149.70): E



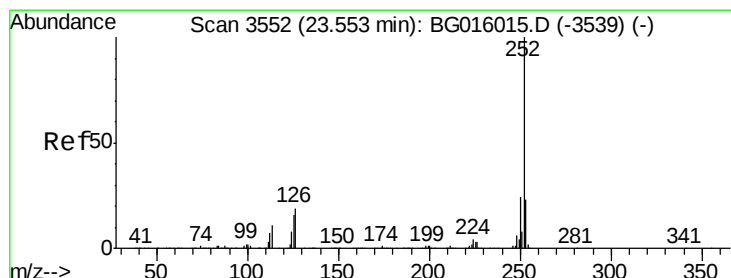
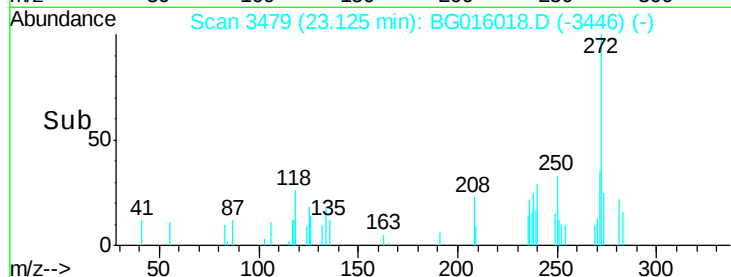
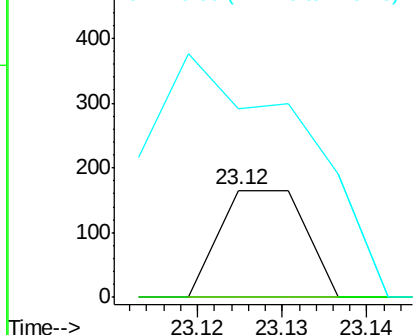


#86
Benzo(k)fluoranthene
Concen: 0.00 ng/u1
RT: 23.12 min Scan# 3479
Delta R.T. 0.12 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	0.0	18.2	27.2#
125	177.0	11.4	17.2#

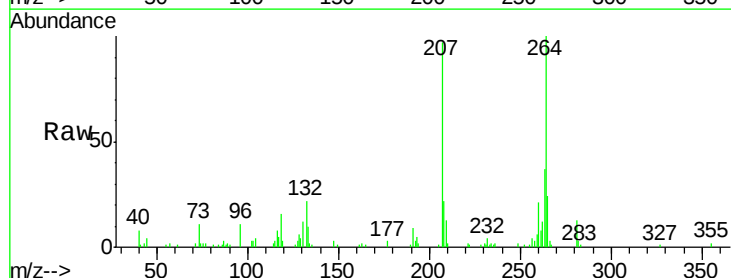


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

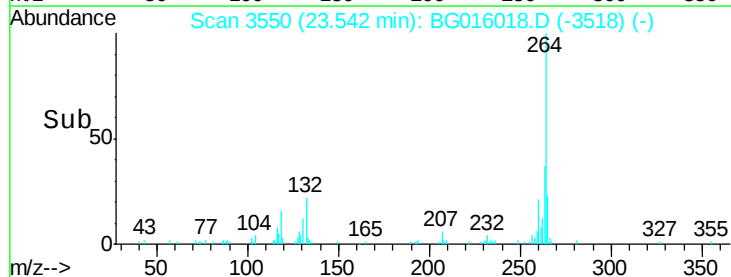
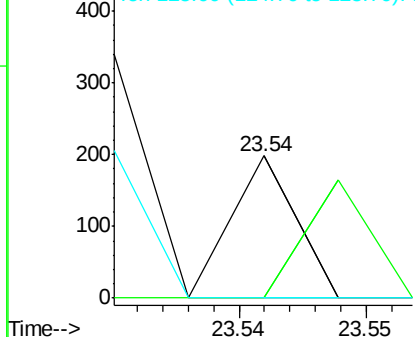


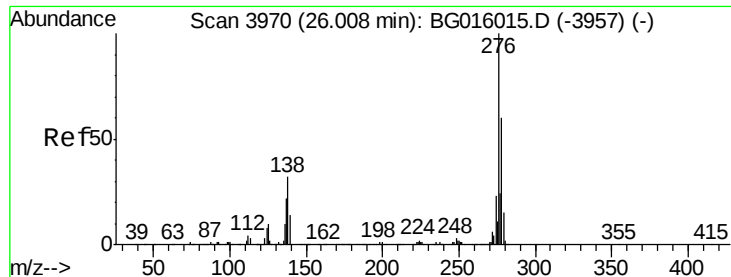
#88
Benzo(a)pyrene
Concen: 0.00 ng/u1
RT: 23.54 min Scan# 3550
Delta R.T. -0.01 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	0.0	17.9	26.9#
125	0.0	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

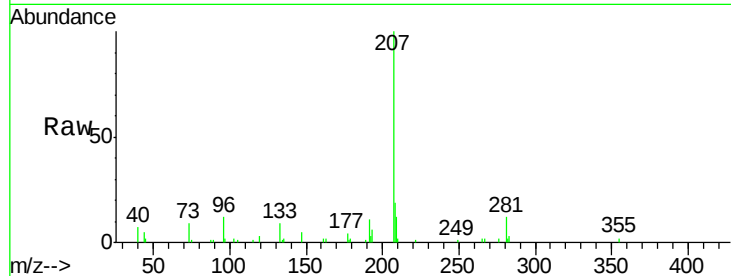




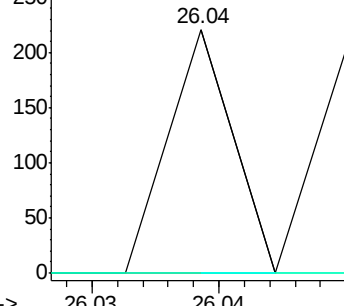
#89

Indeno(1,2,3-cd)pyrene
Concen: 0.00 ng/ul
RT: 26.04 min Scan# 3975
Delta R.T. 0.03 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

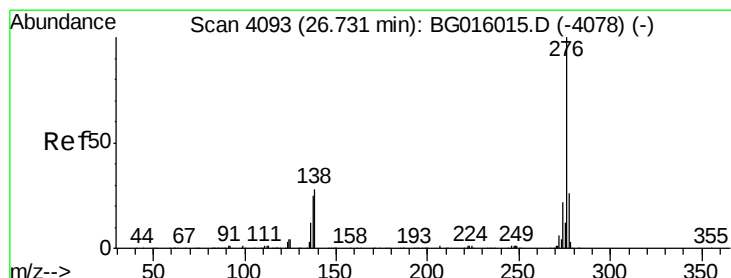
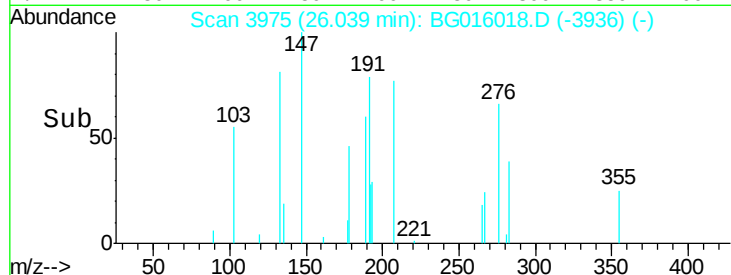
Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.0	26.2	39.4#
277	0.0	21.0	31.6#



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



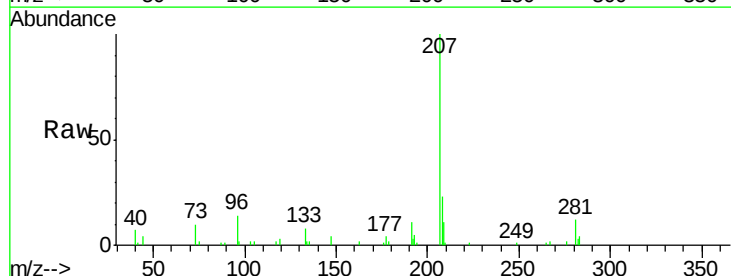
Time-->



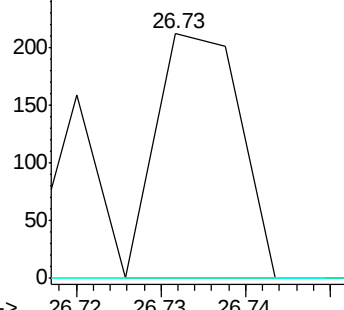
#91

Benzo(g,h,i)perylene
Concen: 0.01 ng/ul
RT: 26.73 min Scan# 4093
Delta R.T. 0.00 min
Lab File: BG016018.D
Acq: 20 Feb 2015 1:44

Tgt 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



Time-->

