

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021915\
 Data File : BG016032.D
 Acq On : 20 Feb 2015 10:58
 Operator : TP/IZ
 Sample : MDL-07-S-ML
 Misc : MDL-SOIL-3PPM-SOM0-ML
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 20 12:25:33 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 20 05:38:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	91021	20.00	ng/ul	0.00
16) Naphthalene-d8	10.60	136	406961	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.43	164	249008	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.18	188	524182	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	539808	20.00	ng/ul	0.00
83) Perylene-d12	23.65	264	520977	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.97	99	231517	26.74	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.14	67	141113	27.59	ng/ul	0.00
7) 2-Chlorophenol-d4	7.34	132	179226	27.98	ng/ul	0.00
11) 4-Methylphenol-d8	8.51	113	172225	26.87	ng/ul	0.00
17) Nitrobenzene-d5	8.96	128	87828	30.53	ng/ul	0.00
20) 2-Nitrophenol-d4	9.68	143	79479	29.96	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.22	165	150028	26.07	ng/ul	0.00
27) 4-Chloroaniline-d4	10.73	131	277060	43.70	ng/ul	0.00
41) Dimethylphthalate-d6	13.85	166	497756	29.90	ng/ul	0.00
44) Acenaphthylene-d8	14.13	160	667133	28.32	ng/ul	0.00
49) 4-Nitrophenol-d4	14.62	143	70498	21.06	ng/ul	0.00
55) Fluorene-d10	15.43	176	478591	28.60	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.54	200	29439	14.57	ng/ul	0.00
68) Anthracene-d10	17.27	188	720364	28.97	ng/ul	0.00
76) Pyrene-d10	19.56	212	763258	30.10	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.50	264	694833	29.41	ng/ul	0.00

Target Compounds

						Qvalue
2) Benzaldehyde	6.97	77	284	0.05	ng/ul#	1
6) Bis(2-Chloroethyl)ether	7.24	93	846	0.12	ng/ul#	82
10) 2,2'-oxybis(1-Chloropropan	8.51	45	1249	0.14	ng/ul#	68
13) N-Nitroso-di-n-propylamine	8.51	70	3945	0.72	ng/ul#	1
18) Nitrobenzene	8.96	77	559	0.08	ng/ul#	36
19) Isophorone	9.68	82	4736	0.32	ng/ul#	63
26) Naphthalene	10.72	128	73	0.00	ng/ul#	1
42) Dimethylphthalate	13.85	163	506	0.03	ng/ul#	1
50) 4-Nitrophenol	14.75	109	1038	0.54	ng/ul#	1
56) Fluorene	15.43	166	1220	0.06	ng/ul#	11
58) 4-Nitroaniline	15.54	138	63	0.01	ng/ul#	1
67) Phenanthrene	17.18	178	89	0.00	ng/ul#	5
69) Anthracene	17.27	178	239	0.01	ng/ul#	1
70) 1,2,3,4-Tetrachlorobenzene	13.23	216	12161	1.83	ng/ul	94
71) Pentachlorobenzene	14.75	250	25020	3.83	ng/ul	98
77) Pyrene	19.57	202	1129	0.03	ng/ul#	1
80) Benzo(a)anthracene	21.35	228	1642	0.05	ng/ul#	61
82) Chrysene	21.36	228	93	0.00	ng/ul#	48
84) Di-n-octyl phthalate	22.18	149	195	0.01	ng/ul	100
86) Benzo(k)fluoranthene	23.12	252	63	0.00	ng/ul#	1
88) Benzo(a)pyrene	23.64	252	1796	0.06	ng/ul	96
89) Indeno(1,2,3-cd)pyrene	25.99	276	123	0.00	ng/ul#	45
91) Benzo(g,h,i)perylene	26.72	276	133	0.00	ng/ul#	48

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Misc : MDL-SOIL-3PPM-SOM0-ML
ALS Vial : 32 Sample Multiplier: 1

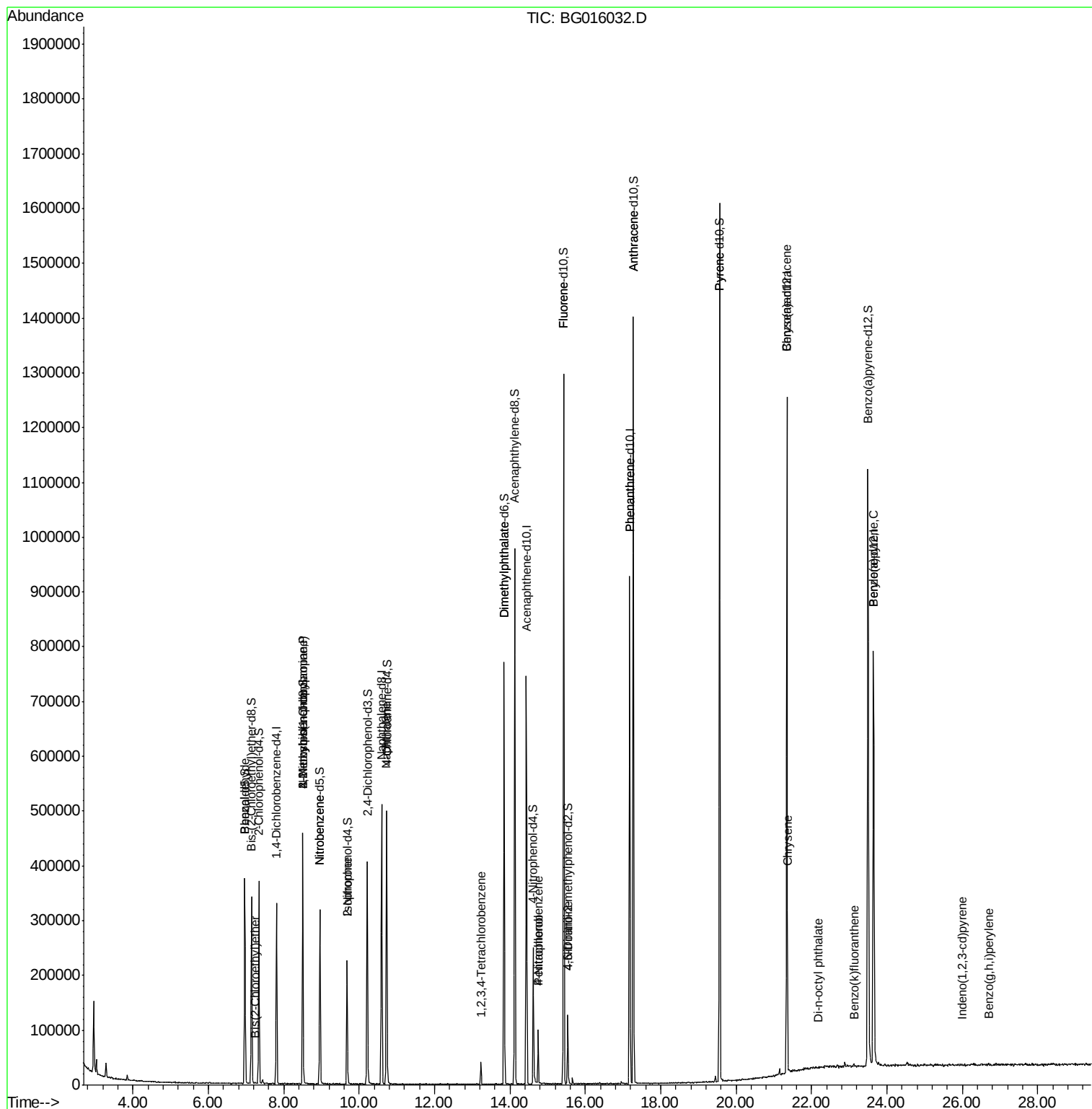
Quant Time: Feb 20 12:25:33 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Feb 20 05:38:39 2015
Response via : Initial Calibration

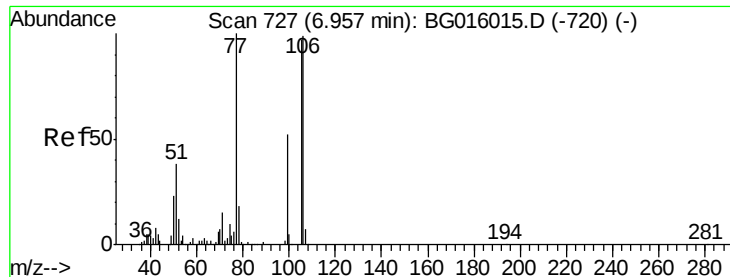
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG016032.D  
Acq On    : 20 Feb 2015   10:58  
Operator  : TP/IZ  
Sample    : MDL-07-S-ML  
Misc      : MDL-SOIL-3PPM-SOM0-ML  
ALS Vial  : 32      Sample Multiplier: 1
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#2

Benzaldehyde

Concen: 0.05 ng/ul

RT: 6.97 min Scan# 729

Delta R.T. 0.01 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

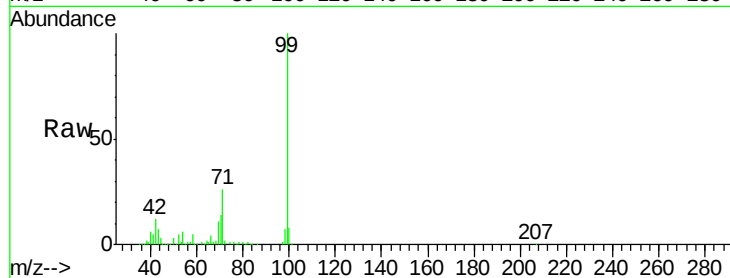
Tgt Ion: 77 Resp: 284

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

6.97

300

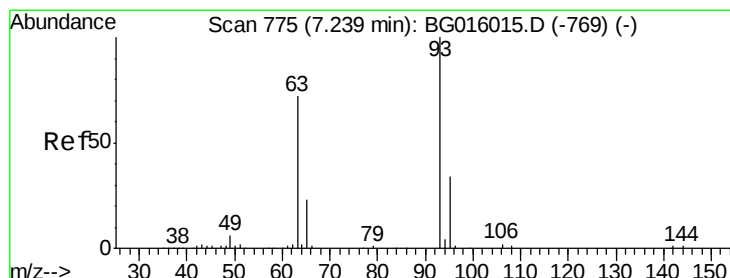
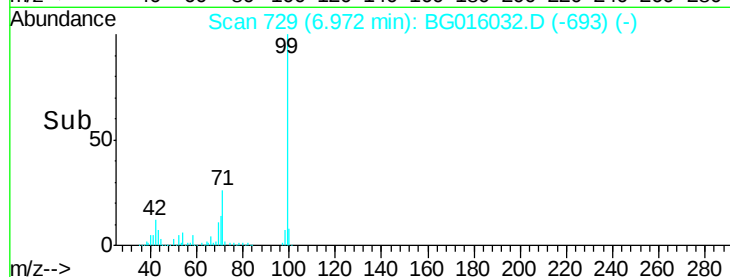
200

100

0

6.96 6.98 7.00

Time-->



#6

Bis(2-Chloroethyl)ether

Concen: 0.12 ng/ul

RT: 7.24 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

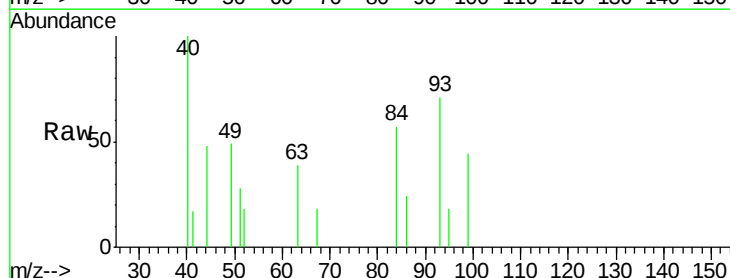
Tgt Ion: 93 Resp: 846

Ion Ratio Lower Upper

93 100

63 54.6 57.5 86.3#

95 25.7 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

7.24

600

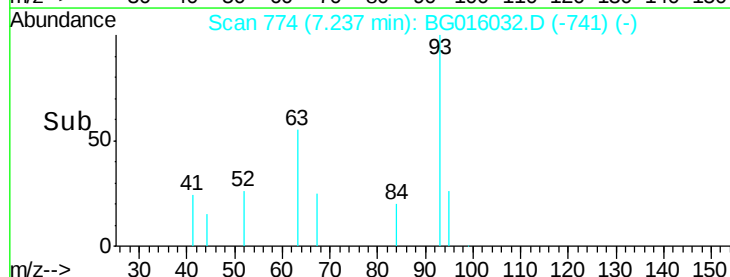
400

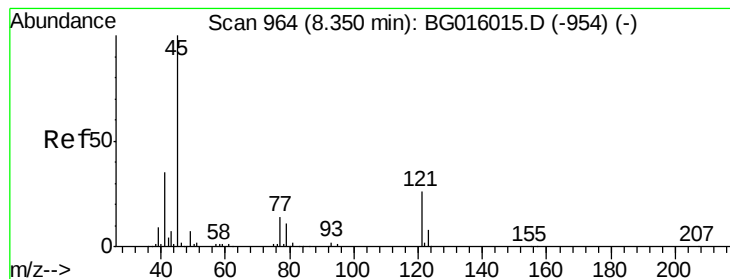
200

0

7.22 7.24 7.26

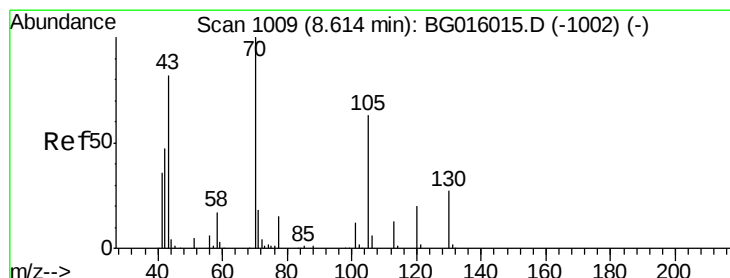
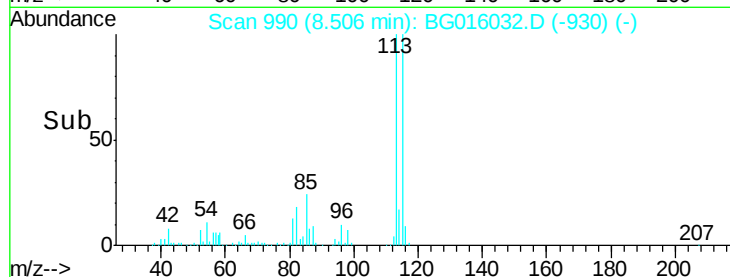
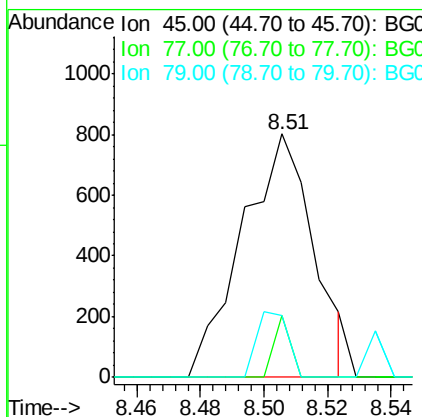
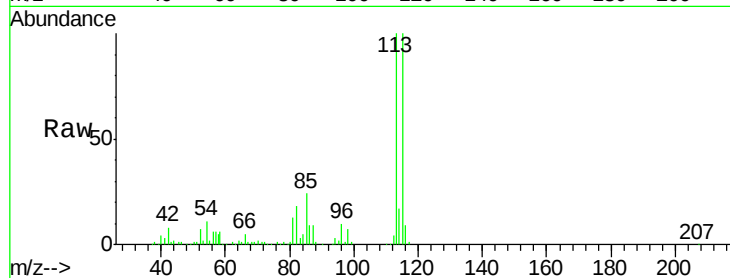
Time-->





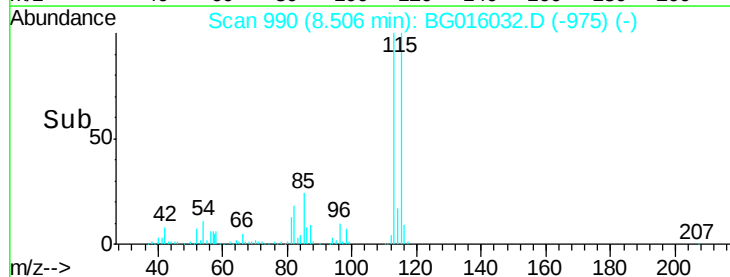
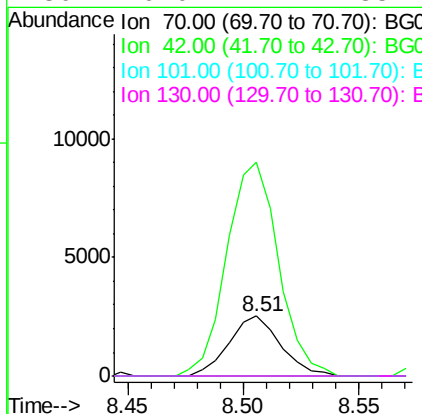
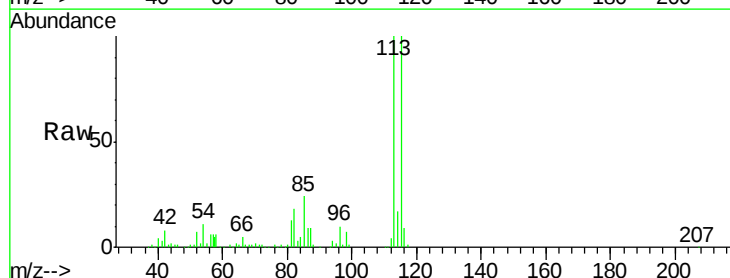
#10
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.14 ng/ul
 RT: 8.51 min Scan# 990
 Delta R.T. 0.16 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

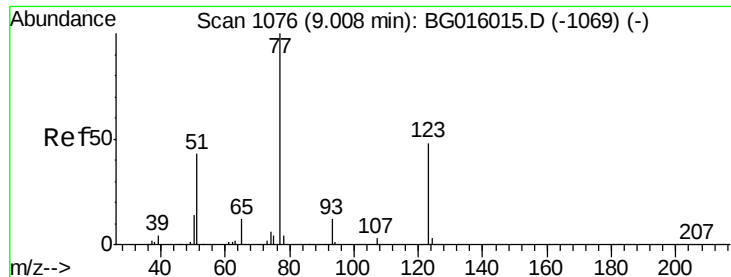
Tgt Ion: 45 Resp: 1249
 Ion Ratio Lower Upper
 45 100
 77 25.4 11.4 17.2#
 79 25.6 9.0 13.6#



#13
 N-Nitroso-di-n-propylamine
 Concen: 0.72 ng/ul
 RT: 8.51 min Scan# 990
 Delta R.T. -0.11 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

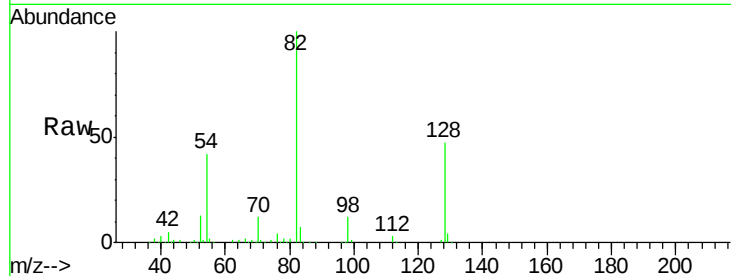
Tgt Ion: 70 Resp: 3945
 Ion Ratio Lower Upper
 70 100
 42 355.7 37.8 56.6#
 101 0.0 9.3 13.9#
 130 0.0 22.2 33.2#



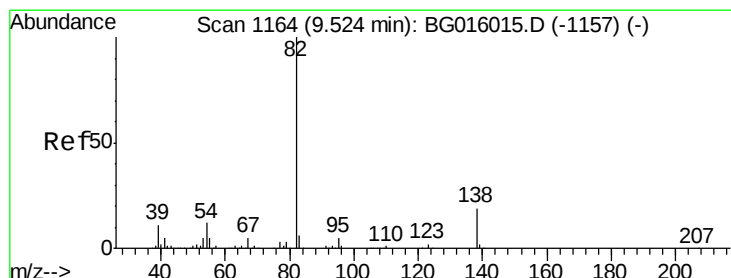
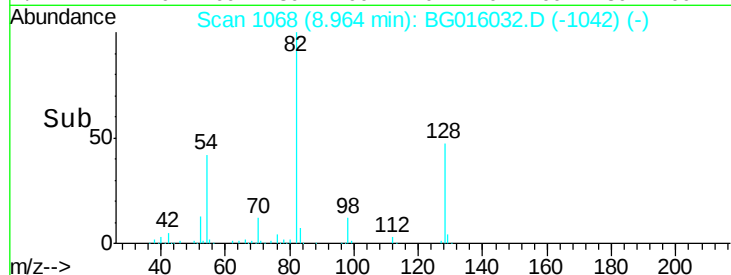
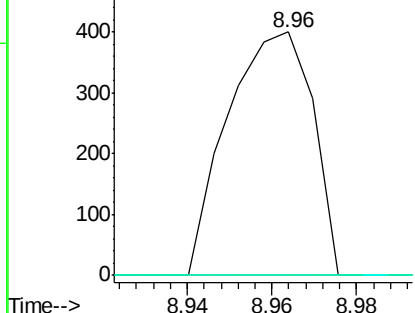


#18
 Nitrobenzene
 Concen: 0.08 ng/ul
 RT: 8.96 min Scan# 1068
 Delta R.T. -0.04 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion	Ratio	Lower	Upper
77	100		
123	0.0	39.9	59.9#
65	0.0	11.0	16.6#

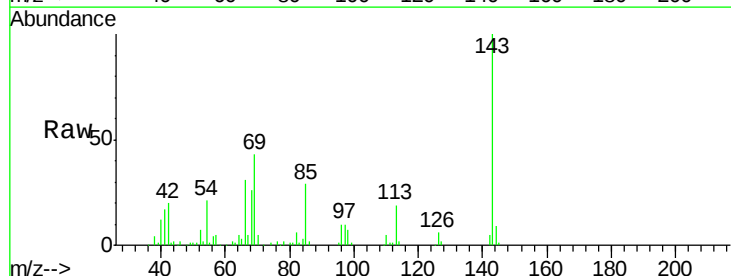


Abundance Ion 77.00 (76.70 to 77.70): BGC
 Ion 123.00 (122.70 to 123.70): BGC
 Ion 65.00 (64.70 to 65.70): BGC

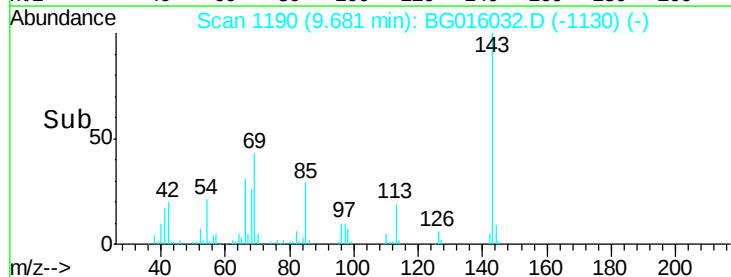
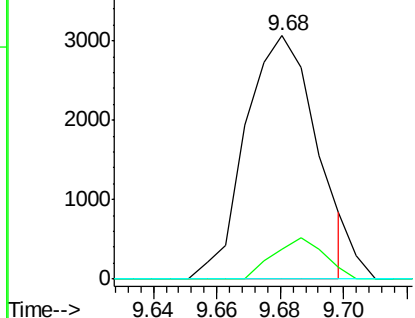


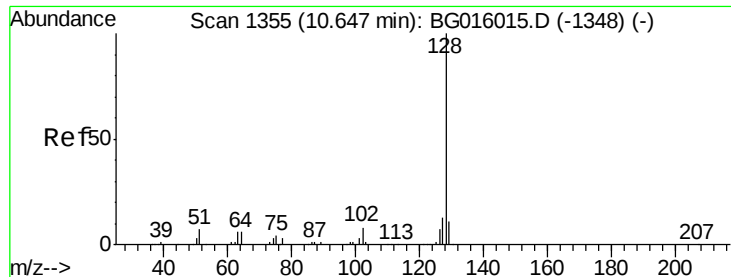
#19
 Isophorone
 Concen: 0.32 ng/ul
 RT: 9.68 min Scan# 1190
 Delta R.T. 0.16 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion	Ratio	Lower	Upper
82	100		
95	12.4	4.6	6.8#
138	0.0	15.4	23.2#



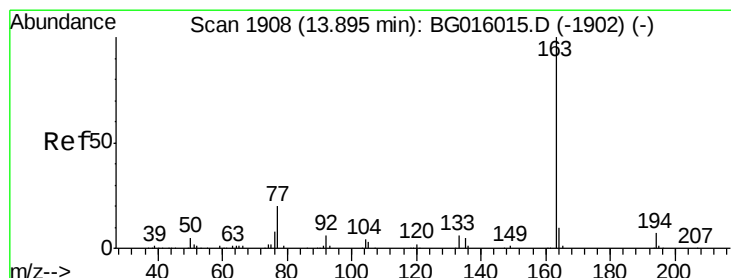
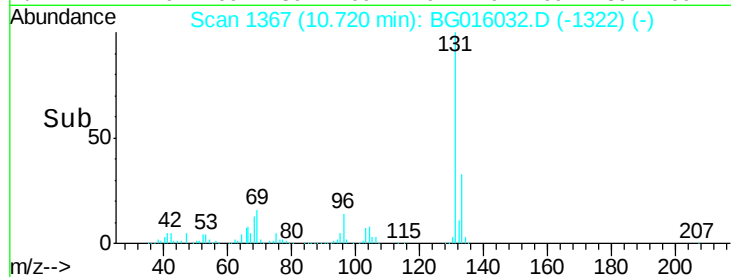
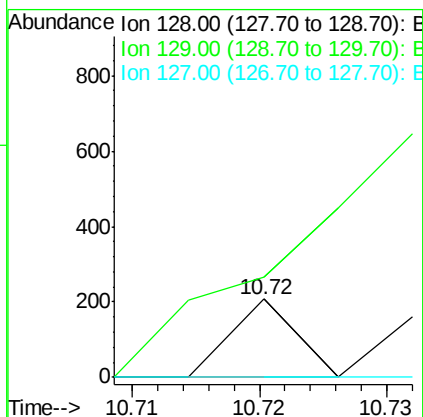
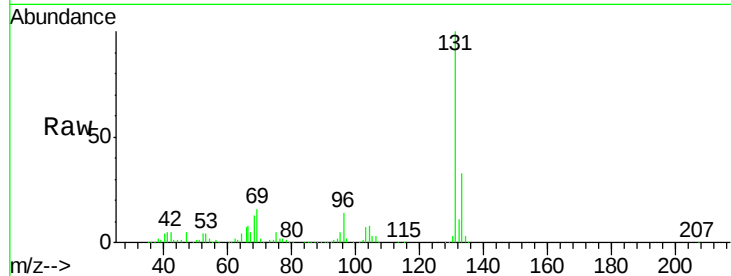
Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 95.00 (94.70 to 95.70): BGC
 Ion 138.00 (137.70 to 138.70): BGC





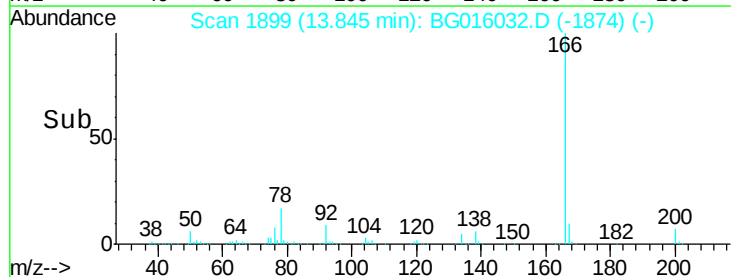
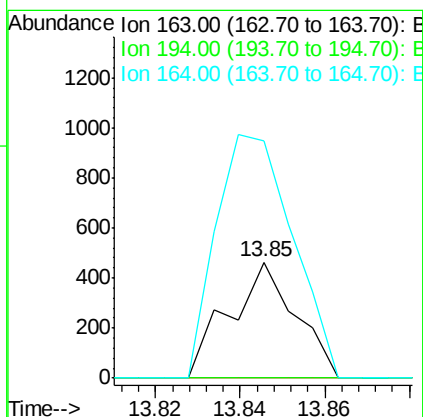
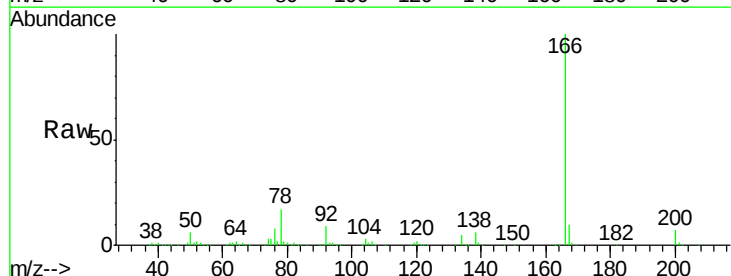
#26
Naphthalene
Concen: 0.00 ng/ul
RT: 10.72 min Scan# 1367
Delta R.T. 0.07 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

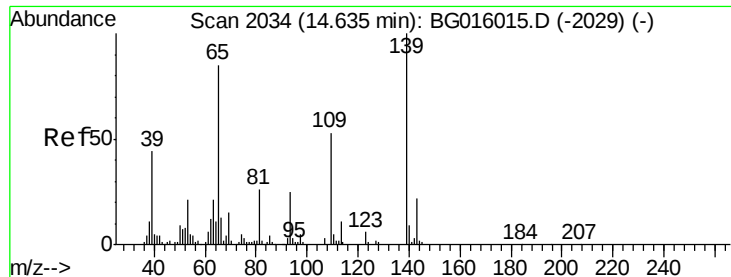
Tgt Ion:128 Resp: 73
Ion Ratio Lower Upper
128 100
129 129.0 8.7 13.1#
127 0.0 10.4 15.6#



#42
Dimethylphthalate
Concen: 0.03 ng/ul
RT: 13.85 min Scan# 1899
Delta R.T. -0.05 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

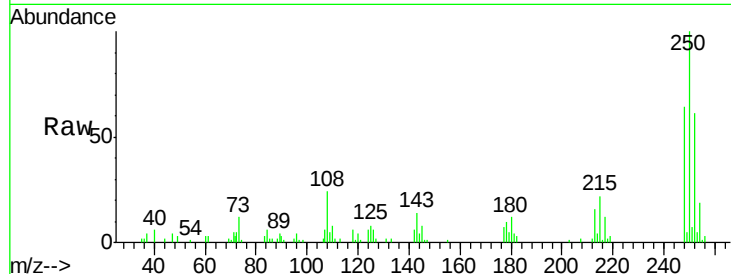
Tgt Ion:163 Resp: 506
Ion Ratio Lower Upper
163 100
194 0.0 5.3 7.9#
164 205.4 8.5 12.7#



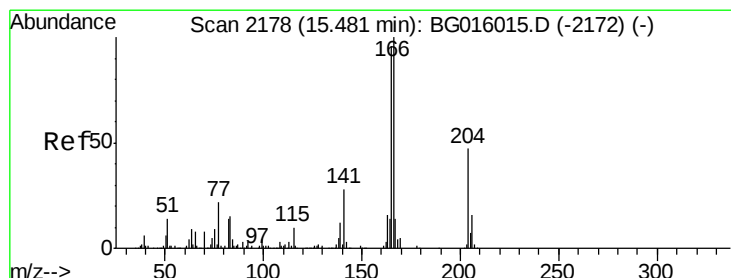
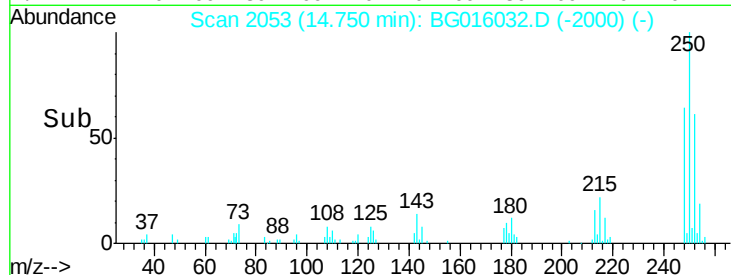
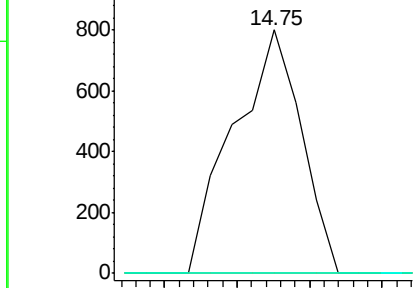


#50
4-Nitrophenol
Concen: 0.54 ng/ul
RT: 14.75 min Scan# 2053
Delta R.T. 0.11 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

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

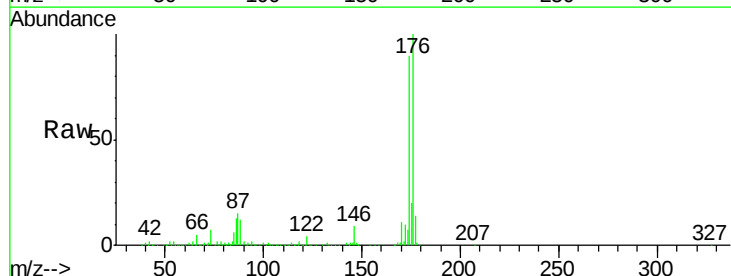


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B

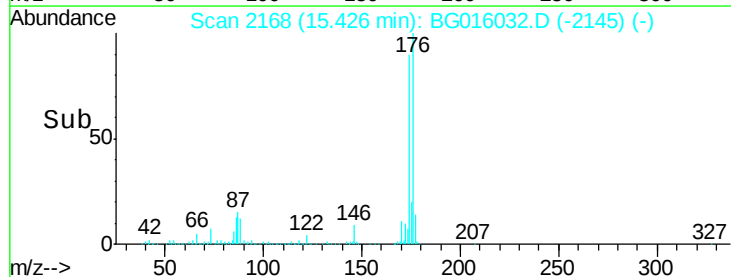
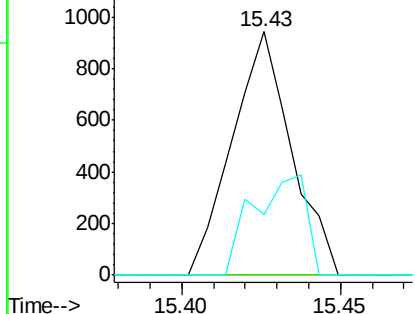


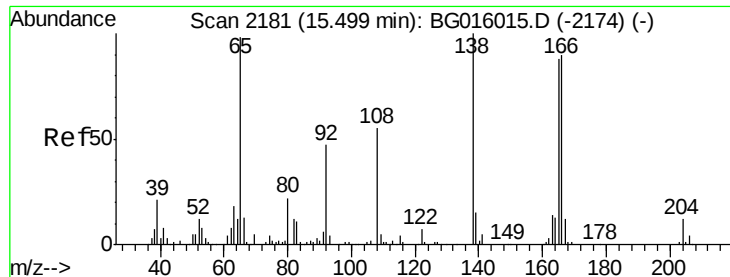
#56
Fluorene
Concen: 0.06 ng/ul
RT: 15.43 min Scan# 2168
Delta R.T. -0.06 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	75.4	113.2#
167	24.8	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: 0.01 ng/ul

RT: 15.54 min Scan# 2187

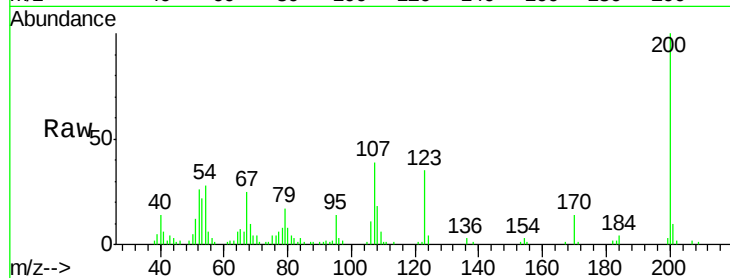
Delta R.T. 0.04 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

Tgt Ion:138 Resp: 63

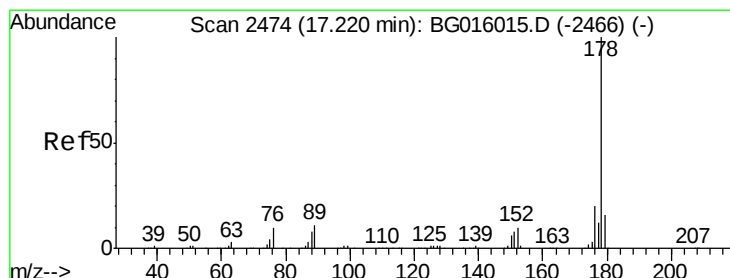
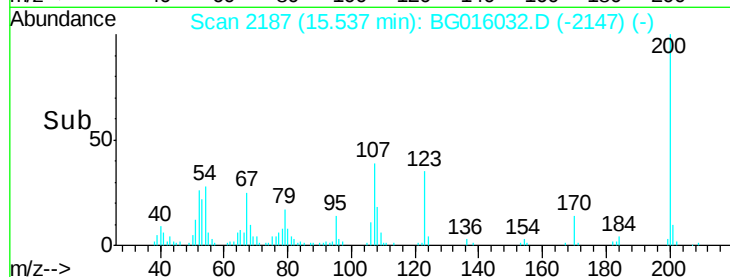
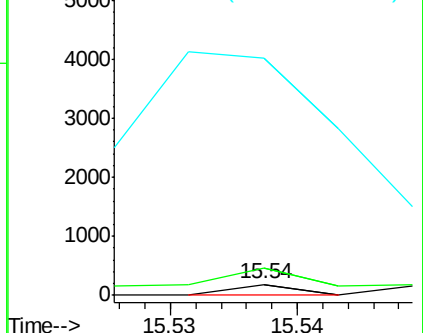
Ion	Ratio	Lower	Upper
138	100		
92	256.1	38.1	57.1#
108	2233.3	46.4	69.6#



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



#67

Phenanthrene

Concen: 0.00 ng/ul

RT: 17.18 min Scan# 2467

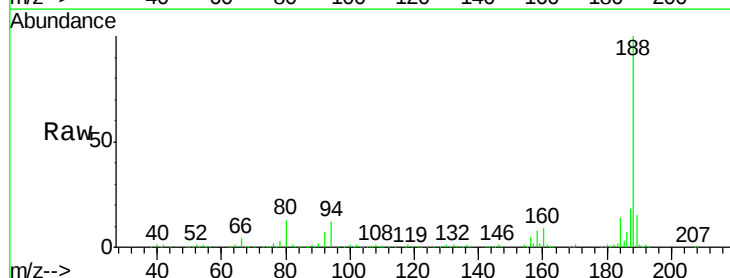
Delta R.T. -0.04 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

Tgt Ion:178 Resp: 89

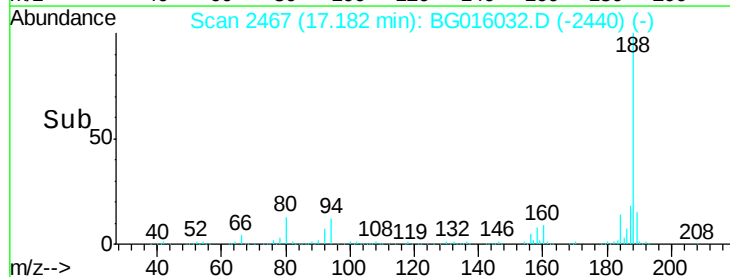
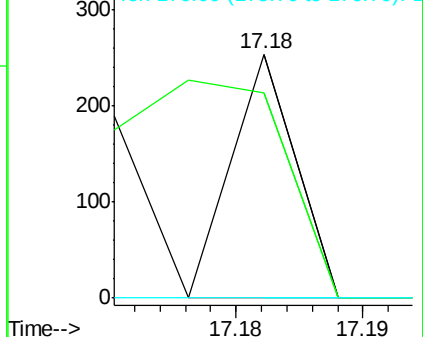
Ion	Ratio	Lower	Upper
178	100		
179	84.2	12.8	19.2#
176	0.0	16.5	24.7#

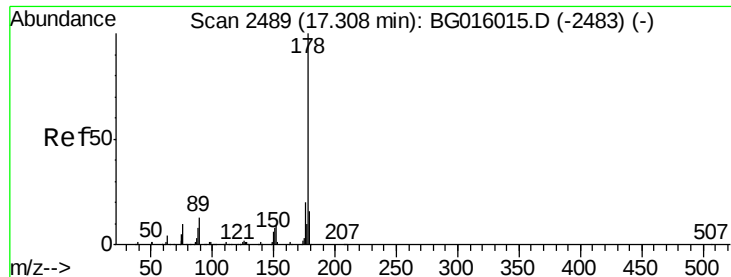


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

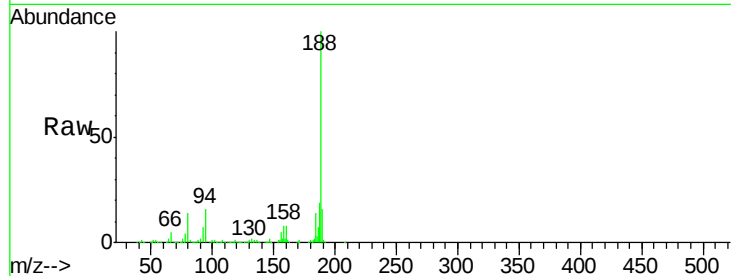
Ion 176.00 (175.70 to 176.70): E



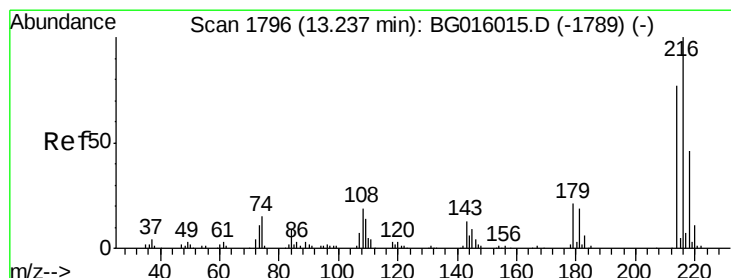
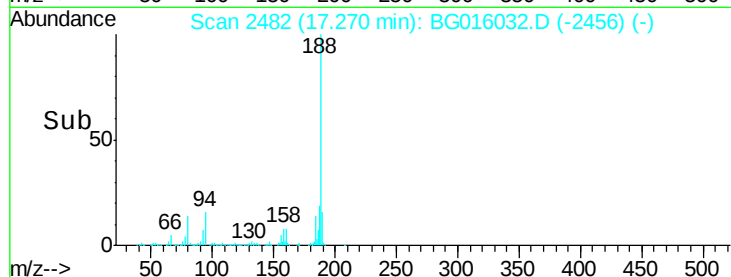
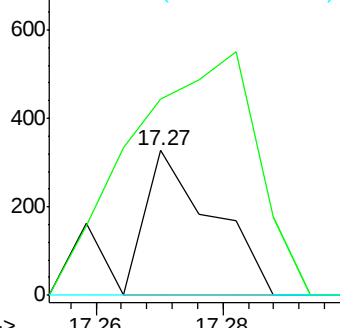


#69
 Anthracene
 Concen: 0.01 ng/uL
 RT: 17.27 min Scan# 2482
 Delta R.T. -0.04 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion:178 Resp: 239
 Ion Ratio Lower Upper
 178 100
 179 136.1 12.9 19.3#
 176 0.0 15.7 23.5#

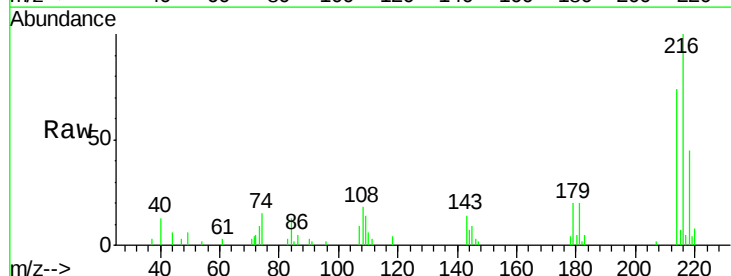


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E

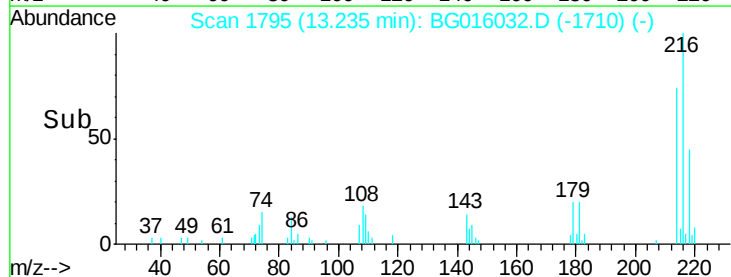
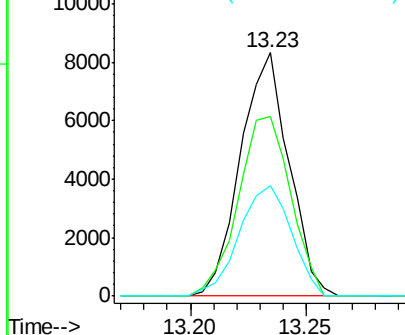


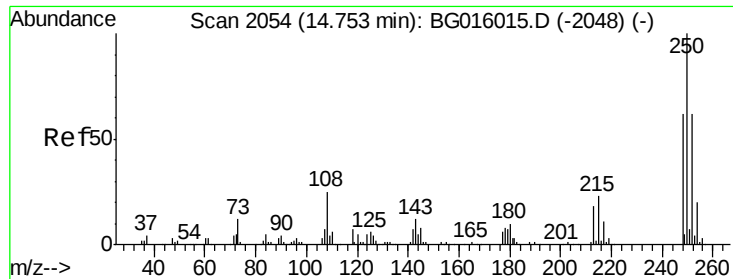
#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 1.83 ng/uL
 RT: 13.23 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion:216 Resp: 12161
 Ion Ratio Lower Upper
 216 100
 214 73.5 64.5 96.7
 218 45.5 37.9 56.9



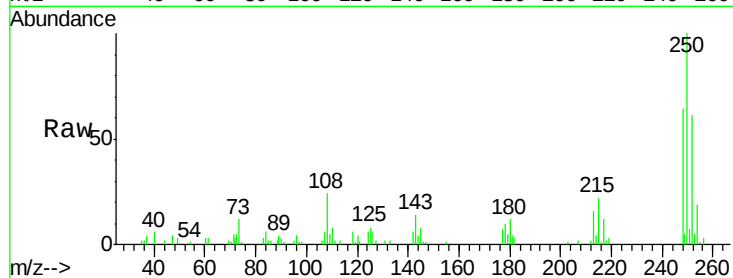
Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 218.00 (217.70 to 218.70): E



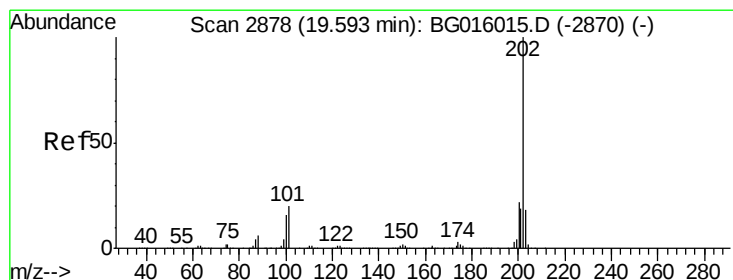
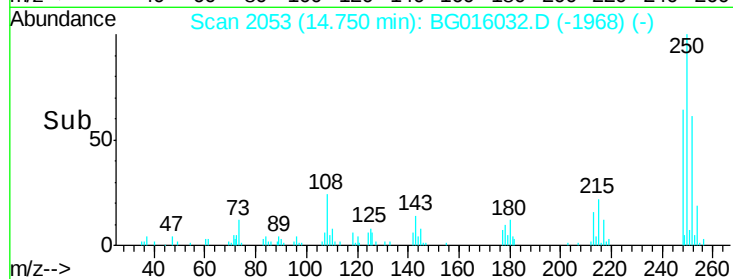
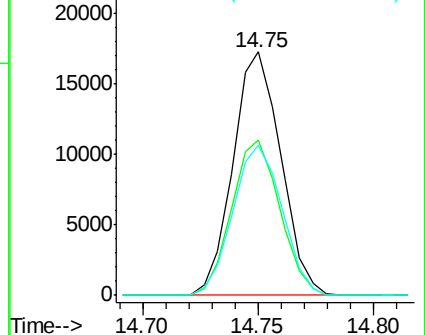


#71
 Pentachlorobenzene
 Concen: 3.83 ng/uL
 RT: 14.75 min Scan# 2053
 Delta R.T. -0.00 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion	Ratio	Lower	Upper
250	100		
248	63.6	50.5	75.7
252	61.5	50.7	76.1

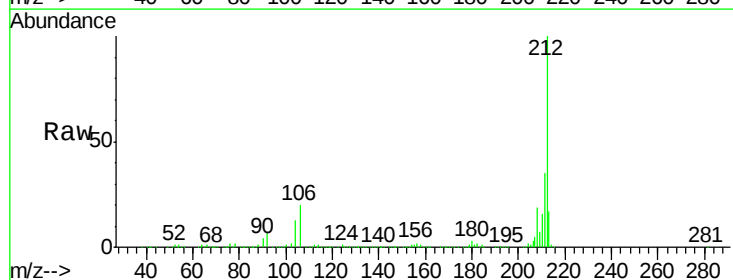


Abundance Ion 250.00 (249.70 to 250.70): E
 Ion 248.00 (247.70 to 248.70): E
 Ion 252.00 (251.70 to 252.70): E

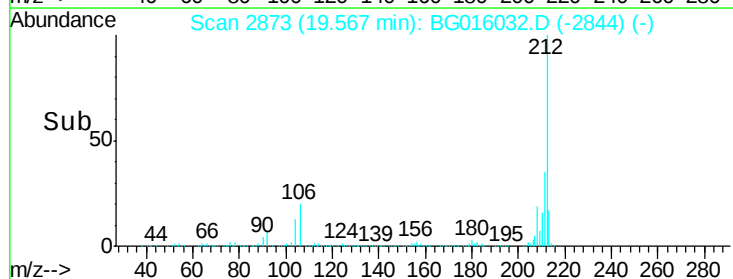
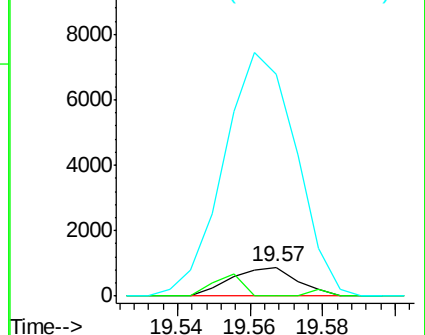


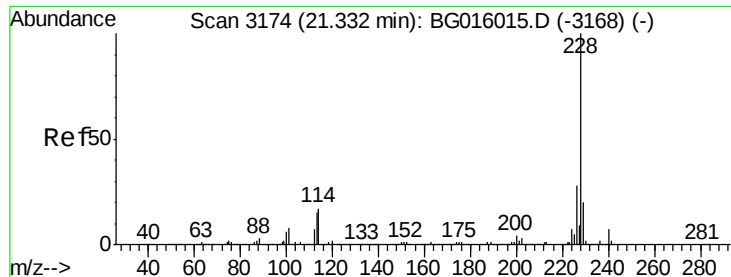
#77
 Pyrene
 Concen: 0.03 ng/uL
 RT: 19.57 min Scan# 2873
 Delta R.T. -0.03 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	0.0	15.8	23.8#
100	759.9	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





#80

Benzo(a)anthracene

Concen: 0.05 ng/ul

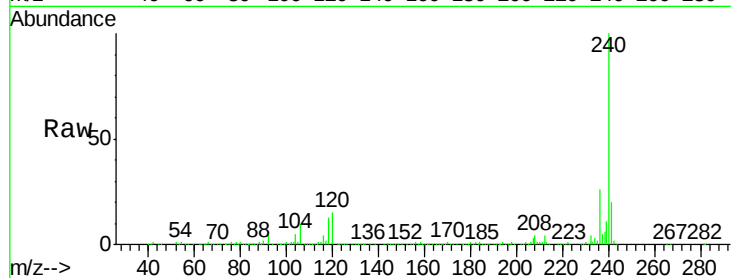
RT: 21.35 min Scan# 3176

Delta R.T. 0.01 min

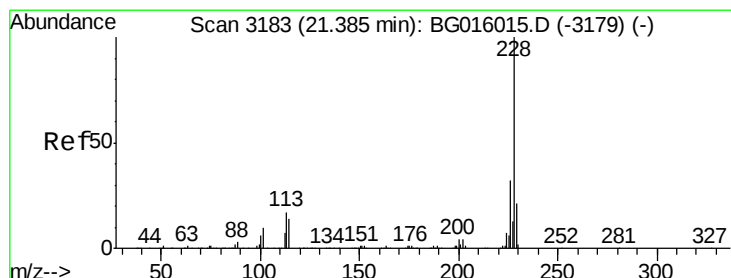
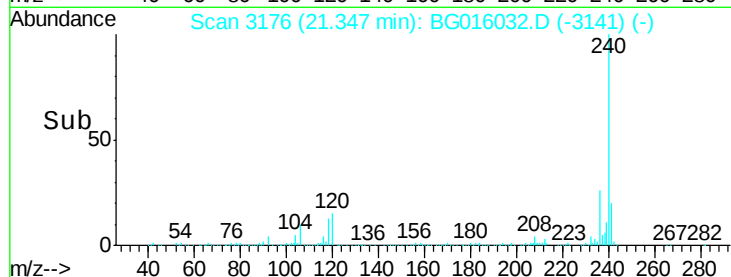
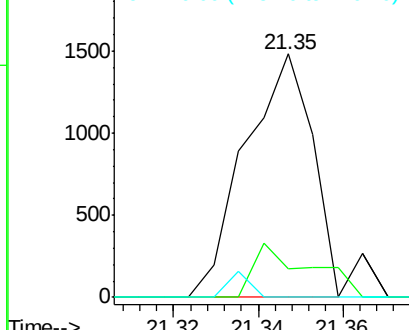
Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

Tgt Ion:	228	Resp:	1642
Ion	Ratio	Lower	Upper
228	100		
229	11.6	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



#82

Chrysene

Concen: 0.00 ng/ul

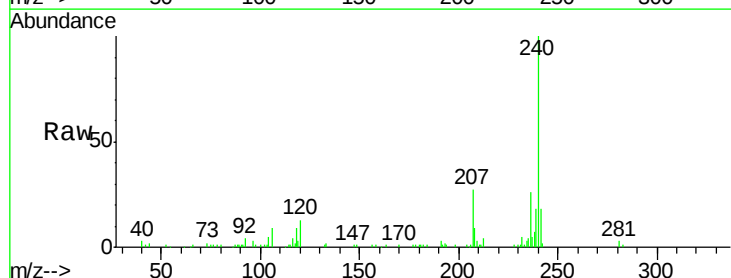
RT: 21.36 min Scan# 3179

Delta R.T. -0.02 min

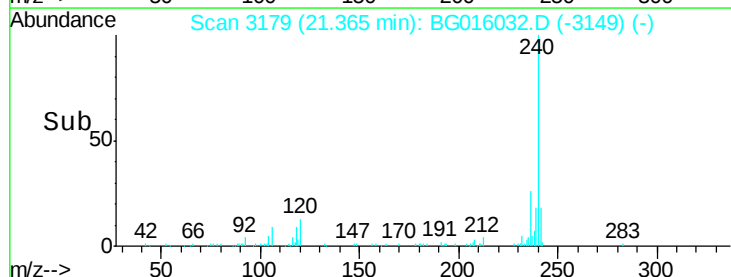
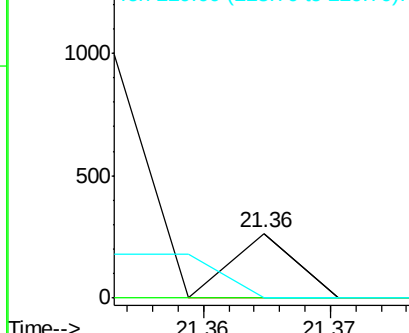
Lab File: BG016032.D

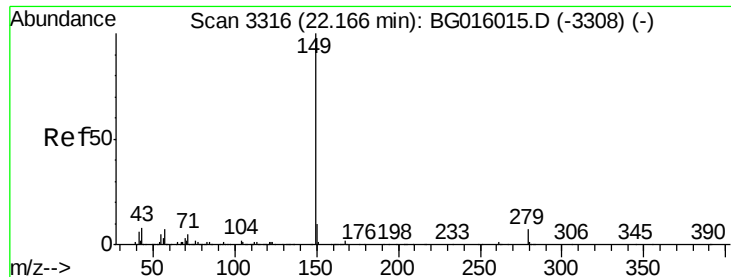
Acq: 20 Feb 2015 10:58

Tgt Ion:	228	Resp:	93
Ion	Ratio	Lower	Upper
228	100		
226	0.0	24.7	37.1#
229	0.0	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

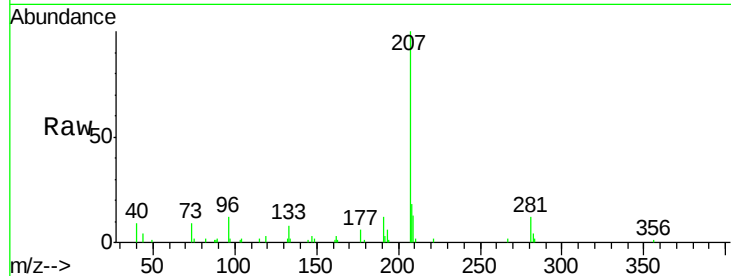




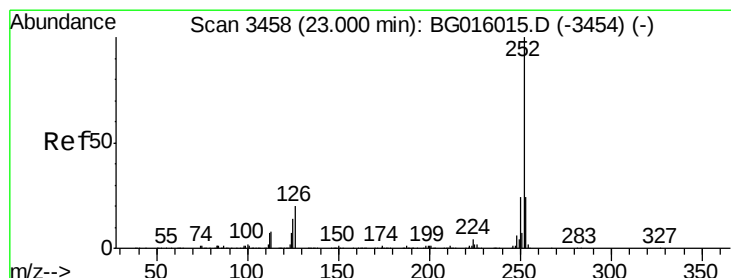
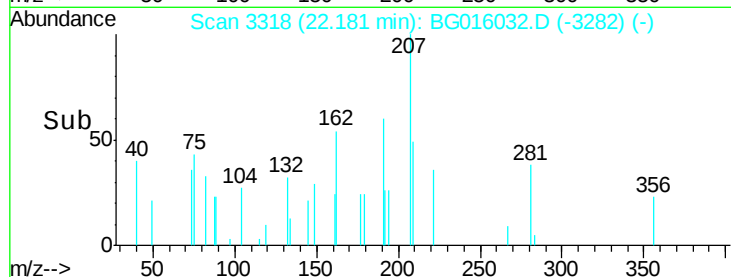
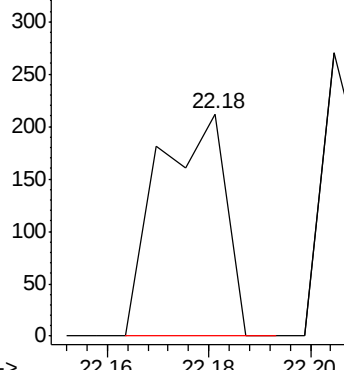
#84

Di-n-octyl phthalate
Concen: 0.01 ng/ul
RT: 22.18 min Scan# 3318
Delta R.T. 0.01 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

Tgt Ion:149 Resp: 195



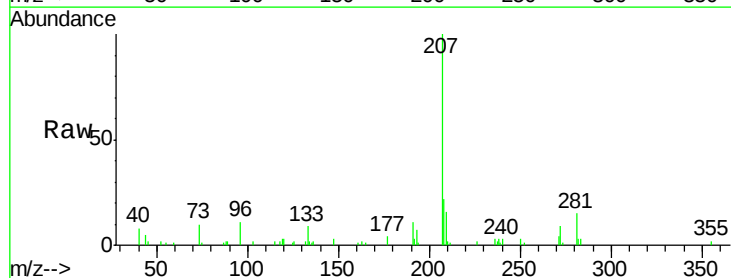
Abundance Ion 149.00 (148.70 to 149.70): E



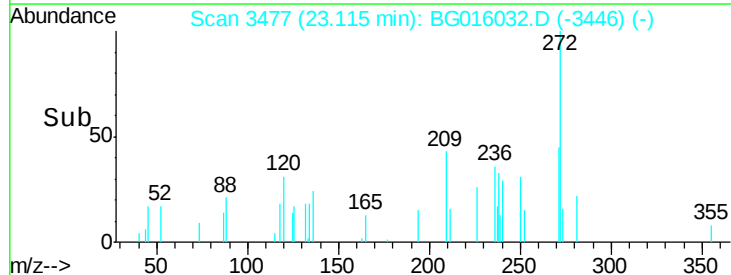
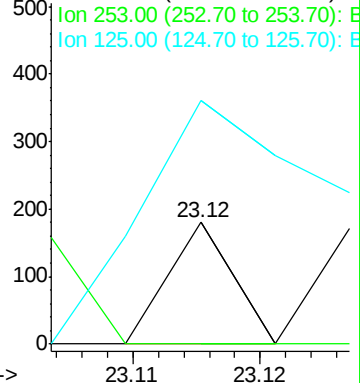
#86

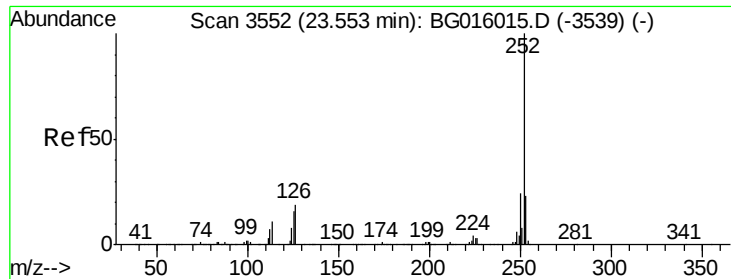
Benzo(k)fluoranthene
Concen: 0.00 ng/ul
RT: 23.12 min Scan# 3477
Delta R.T. 0.11 min
Lab File: BG016032.D
Acq: 20 Feb 2015 10:58

Tgt Ion:252 Resp: 63
Ion Ratio Lower Upper
252 100
253 0.0 18.2 27.2#
125 200.6 11.4 17.2#



Abundance Ion 252.00 (251.70 to 252.70): E





#88

Benzo(a)pyrene

Concen: 0.06 ng/ul

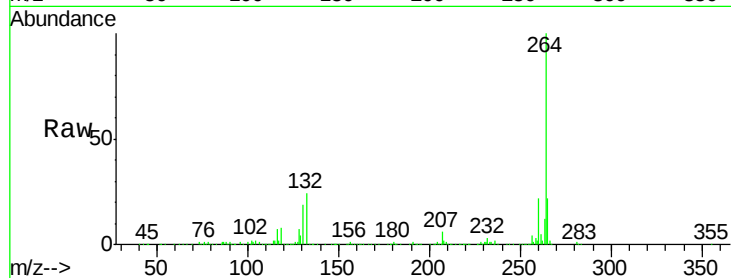
RT: 23.64 min Scan# 3567

Delta R.T. 0.09 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

Tgt Ion:	252	Resp:	1796
Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	15.4	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

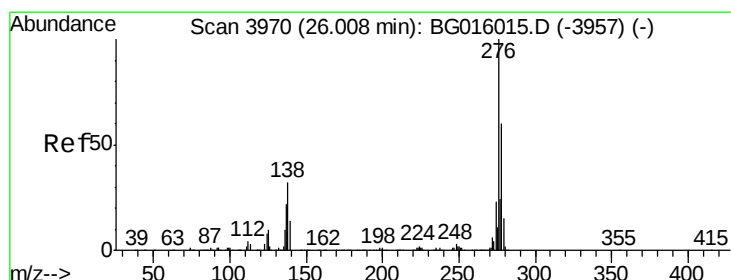
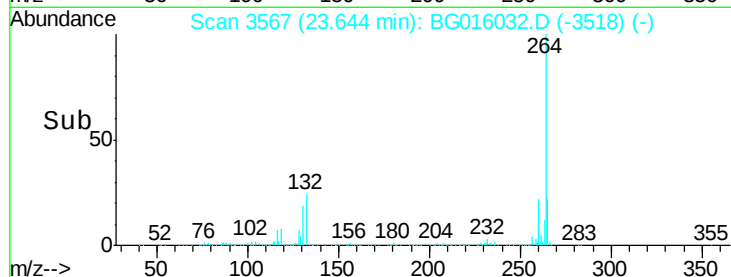
23.64

1000

500

0

Time--> 23.60 23.65



#89

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

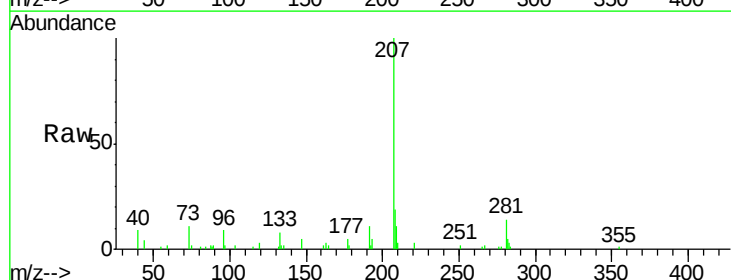
RT: 25.99 min Scan# 3966

Delta R.T. -0.03 min

Lab File: BG016032.D

Acq: 20 Feb 2015 10:58

Tgt Ion:	276	Resp:	123
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

25.99

250

200

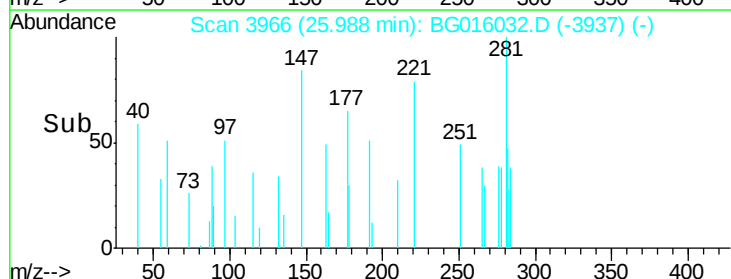
150

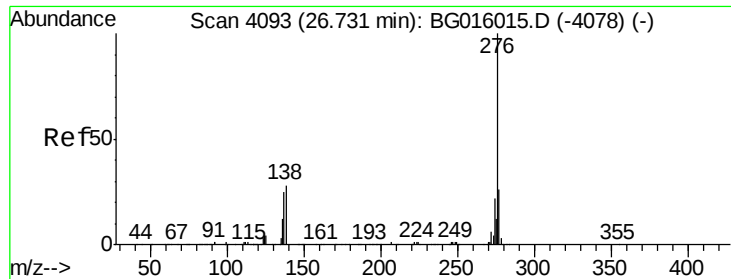
100

50

0

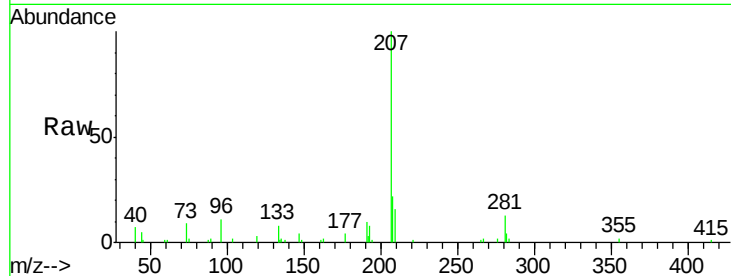
Time--> 25.97 25.98 25.99





#91
 Benzo(g,h,i)perylene
 Concen: 0.00 ng/ul
 RT: 26.72 min Scan# 4090
 Delta R.T. -0.02 min
 Lab File: BG016032.D
 Acq: 20 Feb 2015 10:58

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

