

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG101918\
 Data File : BG037449.D
 Acq On : 19 Oct 2018 12:03
 Operator : JU/SJ
 Sample : J5164-01
 Misc : LOD 2PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Quant Time: Oct 20 00:01:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG101818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 18 14:06:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	49352	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	230922	20.00	ng	0.00
39) Acenaphthene-d10	14.74	164	152672	20.00	ng	0.00
64) Phenanthrene-d10	17.49	188	379644	20.00	ng	0.00
76) Chrysene-d12	21.77	240	354097	20.00	ng	0.00
87) Perylene-d12	25.11	264	347445	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	403413	136.66	ng	0.00
7) Phenol-d6	7.25	99	592768	132.80	ng	0.00
23) Nitrobenzene-d5	9.29	82	340421	82.58	ng	0.00
42) 2,4,6-Tribromophenol	16.22	330	229586	137.87	ng	0.00
45) 2-Fluorobiphenyl	13.36	172	844548	83.42	ng	0.00
79) Terphenyl-d14	20.09	244	1302416	78.59	ng	0.00

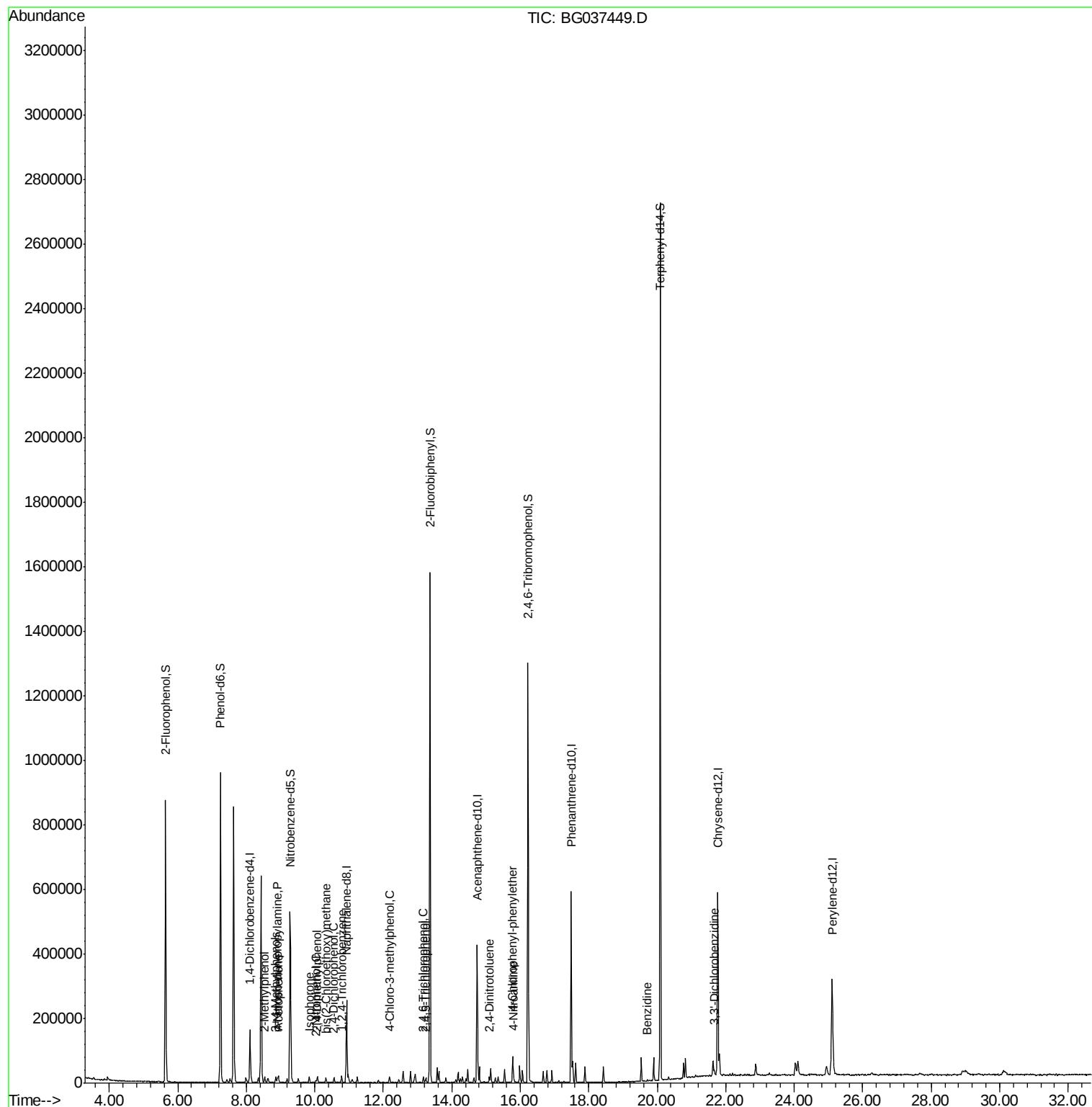
Target Compounds				Qvalue		
17) 2-Methylphenol	8.53	107	5951	1.911	ng	90
19) n-Nitroso-di-n-propylamine	8.91	70	5714	1.859	ng	91
20) 3+4-Methylphenols	8.86	107	7964	1.789	ng	94
22) Acetophenone	8.94	105	11097	1.916	ng	# 95
25) Isophorone	9.84	82	16006	2.125	ng	# 98
26) 2-Nitrophenol	10.04	139	2976	1.543	ng	# 87
27) 2,4-Dimethylphenol	10.07	122	6470	1.878	ng	92
28) bis(2-Chloroethoxy)methane	10.33	93	10551	2.138	ng	# 95
29) 2,4-Dichlorophenol	10.56	162	6727	1.754	ng	94
30) 1,2,4-Trichlorobenzene	10.78	180	8495	2.037	ng	# 84
36) 4-Chloro-3-methylphenol	12.18	107	7421	1.716	ng	93
43) 2,4,6-Trichlorophenol	13.17	196	5153	1.566	ng	94
44) 2,4,5-Trichlorophenol	13.23	196	6155	1.718	ng	89
57) 2,4-Dinitrotoluene	15.09	165	5143	1.500	ng	# 84
61) 4-Chlorophenyl-phenylether	15.77	204	13191	2.058	ng	97
62) 4-Nitroaniline	15.81	138	4611	1.600	ng	97
77) Benzidine	19.71	184	4801	0.399	ng	# 90
82) 3,3'-Dichlorobenzidine	21.67	252	9244	1.139	ng	# 85

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

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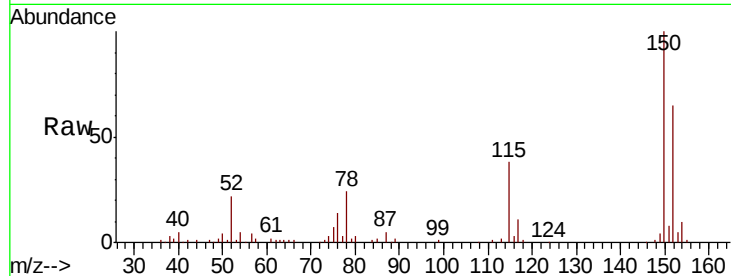




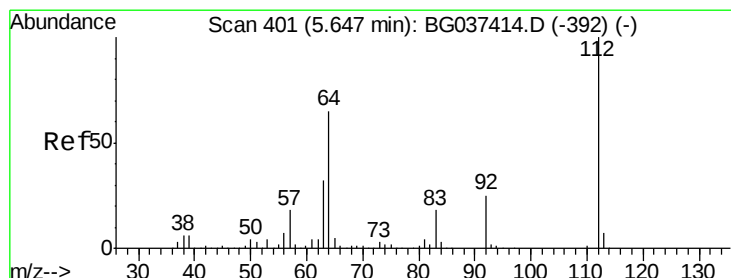
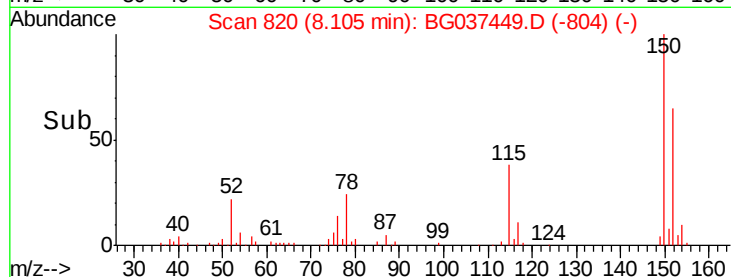
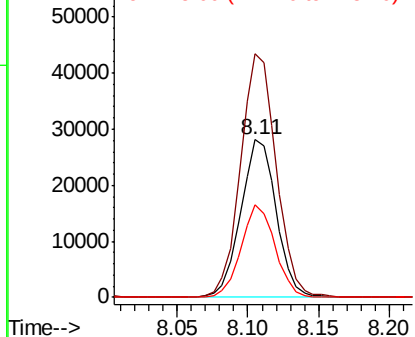
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.11 min Scan# 820
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:152 Resp: 49352
 Ion Ratio Lower Upper
 152 100
 150 154.5 126.0 189.0
 115 59.0 45.5 68.3

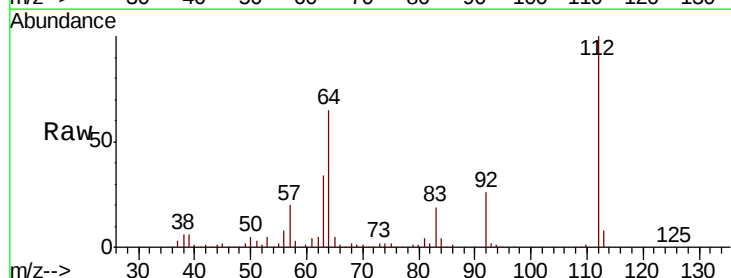


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

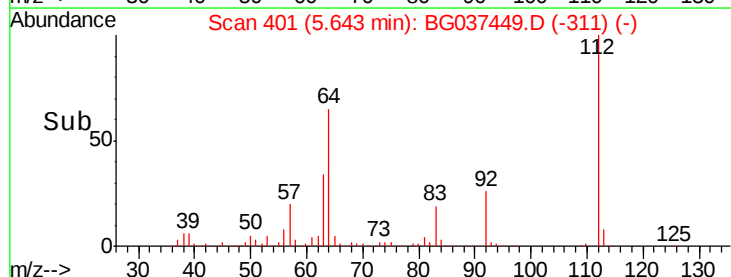
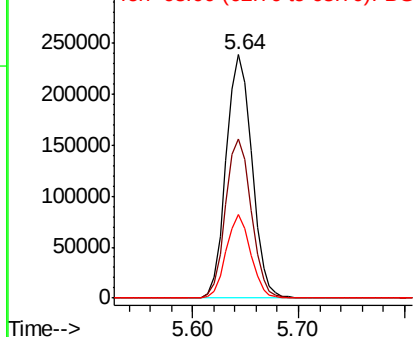


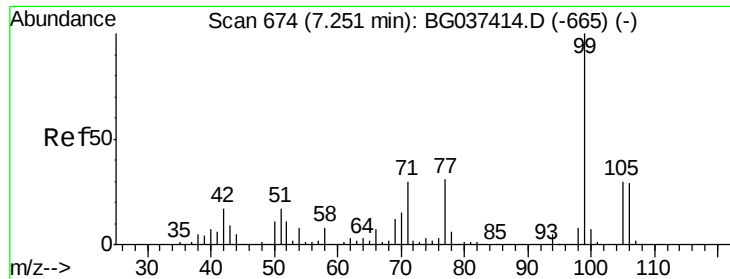
#5
 2-Fluorophenol
 Concen: 136.661 ng
 RT: 5.64 min Scan# 401
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion:112 Resp: 403413
 Ion Ratio Lower Upper
 112 100
 64 65.3 53.1 79.7
 63 34.2 27.3 40.9



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BGC
 Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 132.798 ng

RT: 7.25 min Scan# 674

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

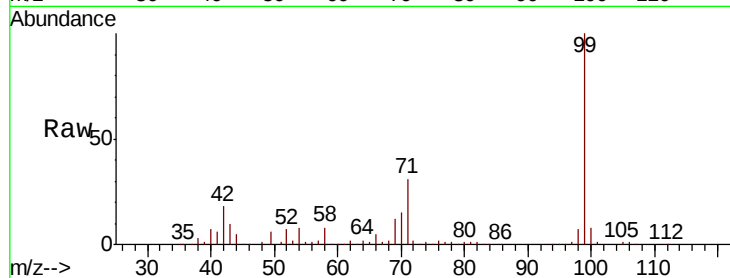
Tgt Ion: 99 Resp: 592768

Ion Ratio Lower Upper

99 100

42 18.1 15.0 22.4

71 30.6 25.5 38.3

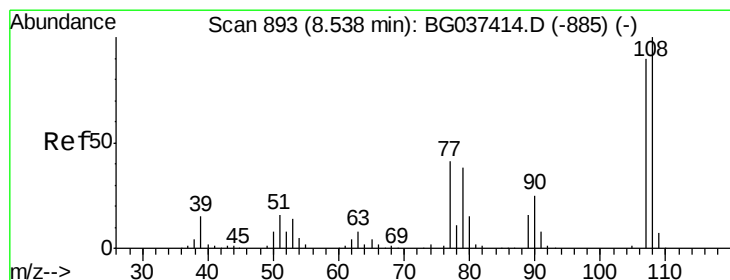
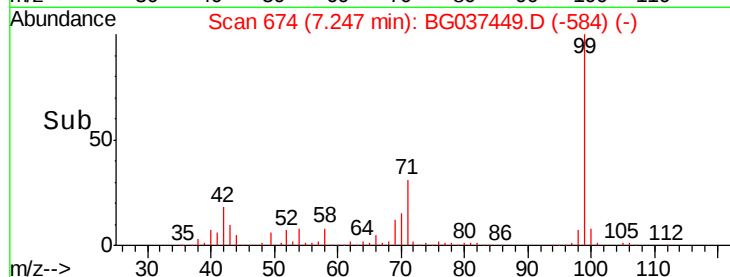
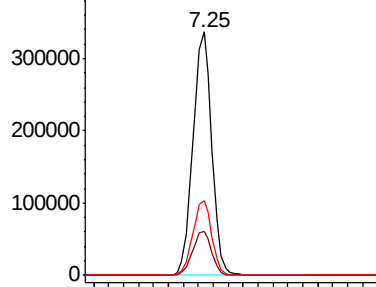


Abundance

Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#17

2-Methylphenol

Concen: 1.911 ng

RT: 8.53 min Scan# 893

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Tgt Ion: 107 Resp: 5951

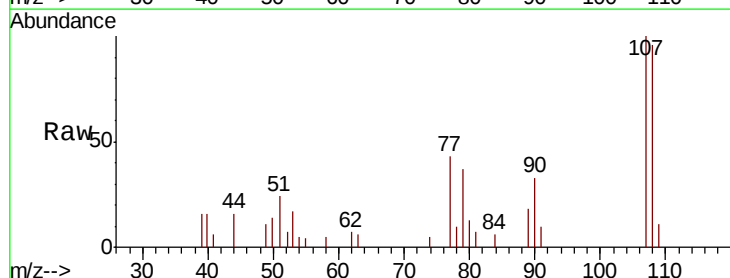
Ion Ratio Lower Upper

107 100

108 96.1 87.9 131.9

77 43.0 35.1 52.7

79 37.3 34.5 51.7



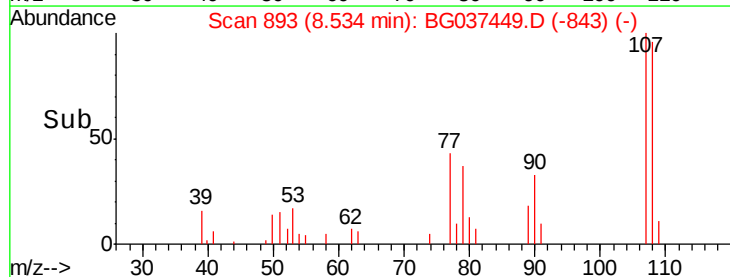
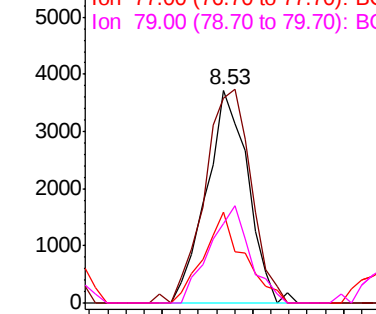
Abundance

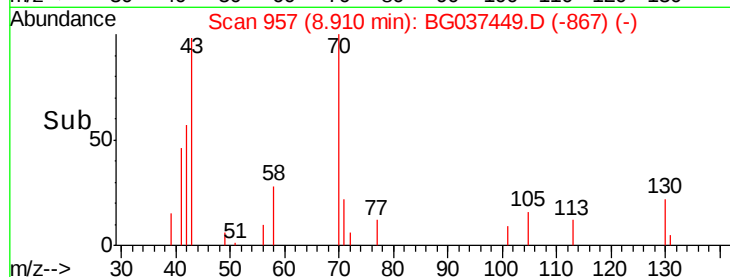
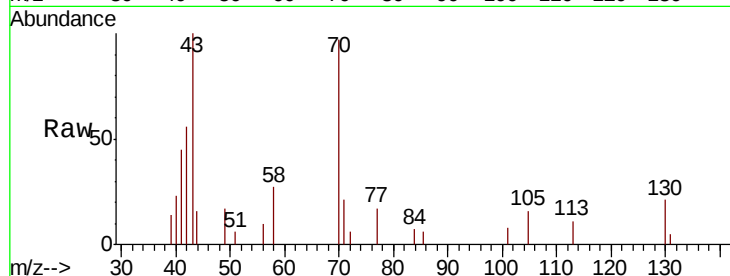
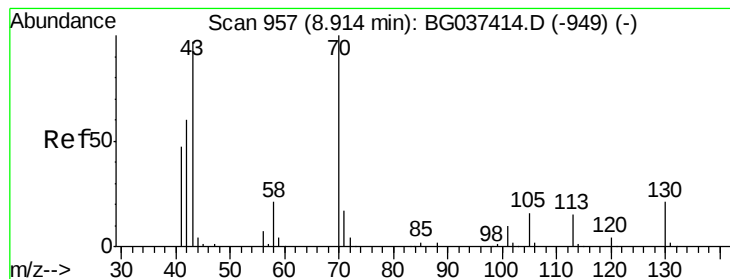
Ion 107.00 (106.70 to 107.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 1.859 ng

RT: 8.91 min Scan# 957

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

Tgt Ion: 70 Resp: 5714

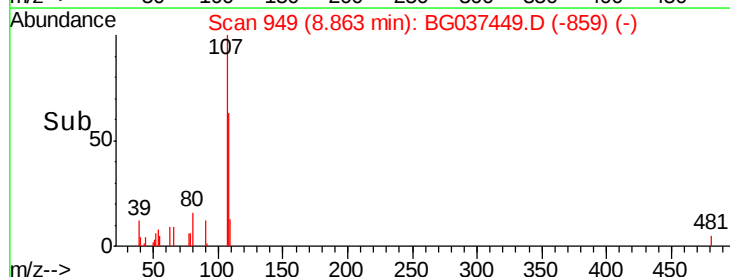
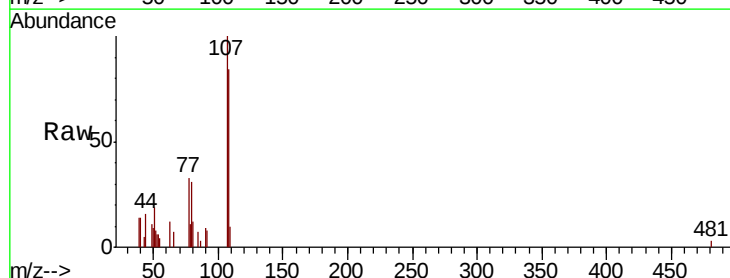
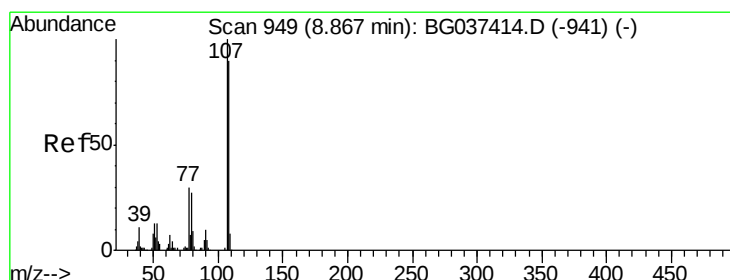
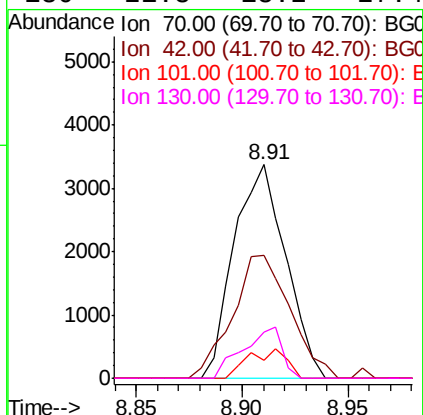
Ion Ratio Lower Upper

70 100

42 57.4 53.9 80.9

101 8.7 8.2 12.2

130 21.8 18.2 27.4



#20

3+4-Methylphenols

Concen: 1.789 ng

RT: 8.86 min Scan# 949

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Tgt Ion: 107 Resp: 7964

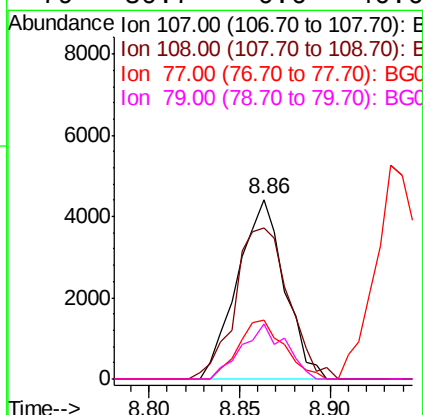
Ion Ratio Lower Upper

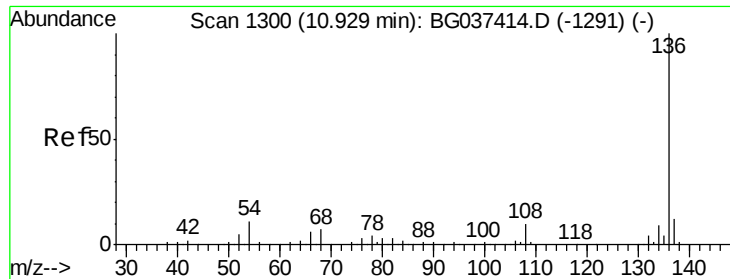
107 100

108 84.3 69.9 109.9

77 32.7 11.2 51.2

79 30.7 6.6 46.6

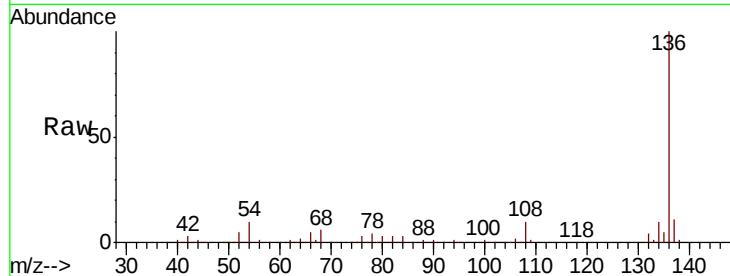




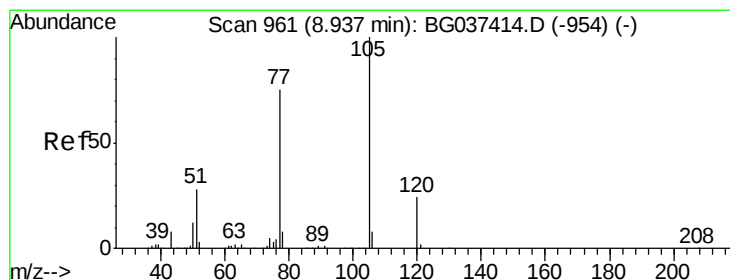
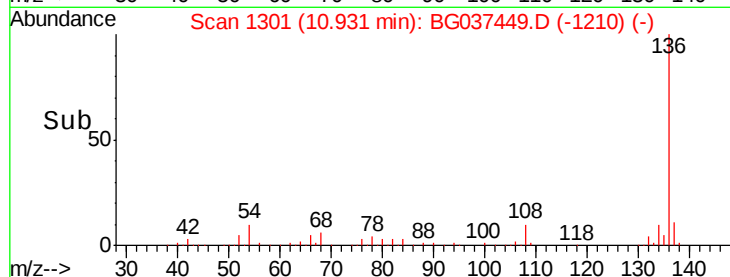
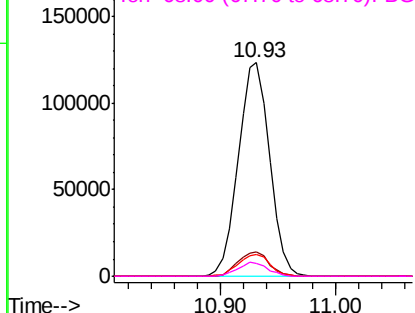
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.93 min Scan# 1301
Delta R.T. 0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:	136	Resp:	230922
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.6	14.4
54	9.9	7.9	11.9
68	6.1	4.8	7.2

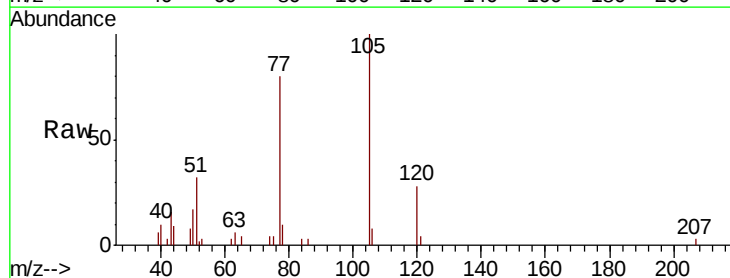


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BG
Ion 68.00 (67.70 to 68.70): BG

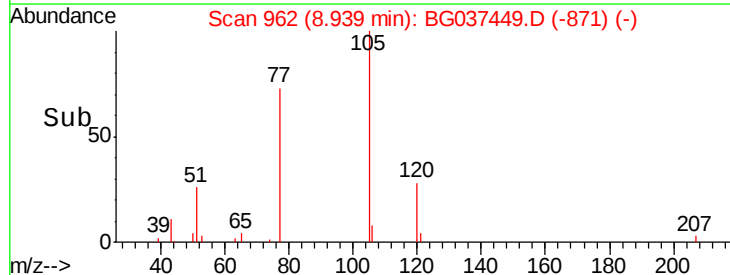
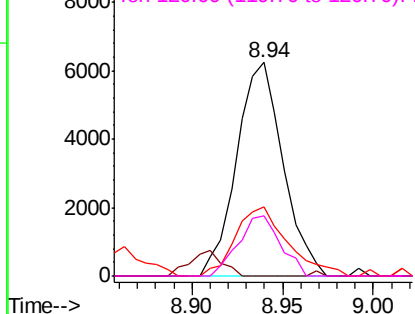


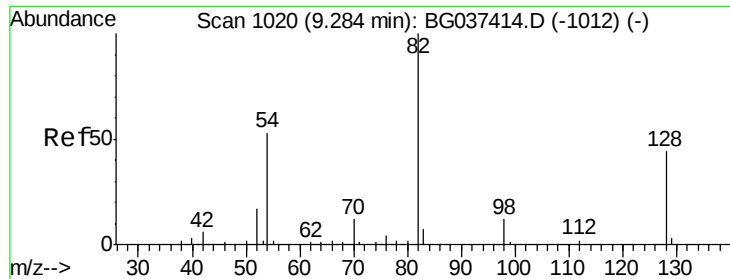
#22
Acetophenone
Concen: 1.916 ng
RT: 8.94 min Scan# 962
Delta R.T. 0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

Tgt Ion:	105	Resp:	11097
Ion	Ratio	Lower	Upper
105	100		
71	0.0	1.2	1.8#
51	32.2	25.0	37.6
120	28.1	18.6	28.0#



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BG
Ion 51.00 (50.70 to 51.70): BG
Ion 120.00 (119.70 to 120.70): E

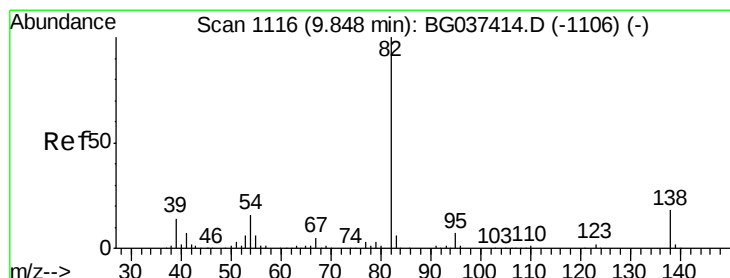
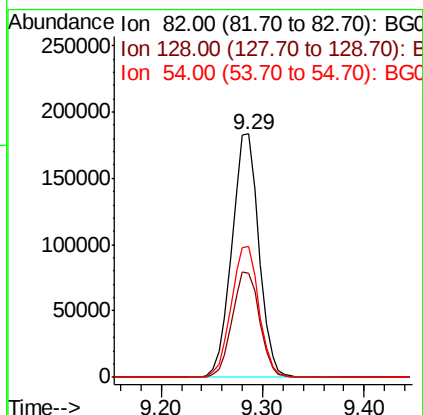
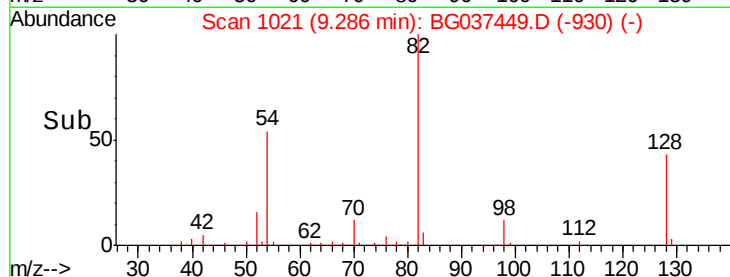
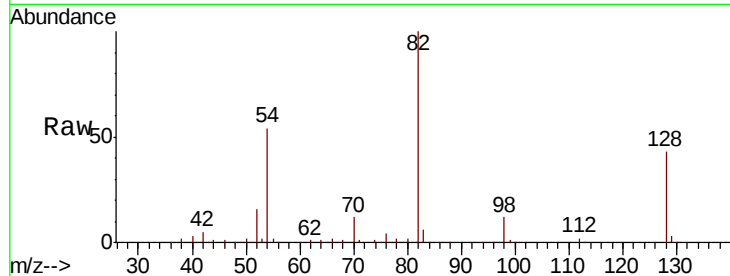




#23
 Nitrobenzene-d5
 Concen: 82.582 ng
 RT: 9.29 min Scan# 1021
 Delta R.T. 0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

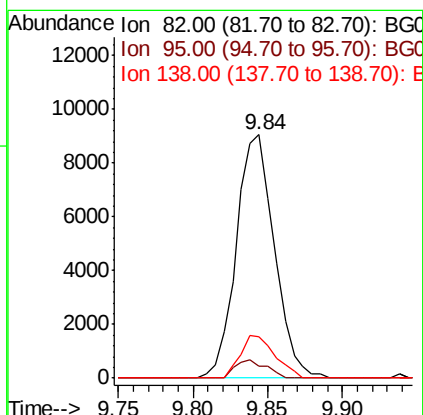
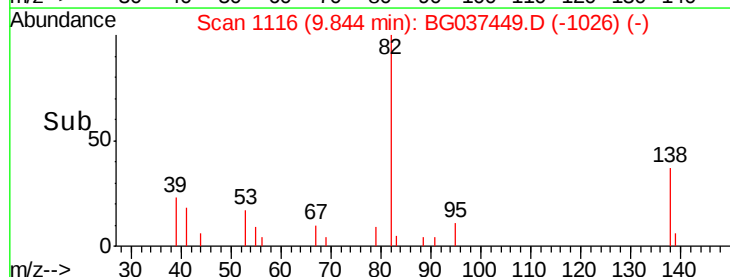
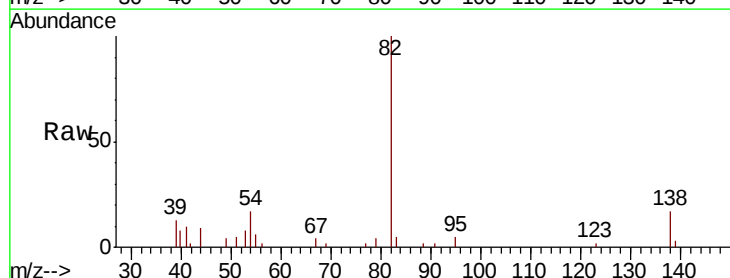
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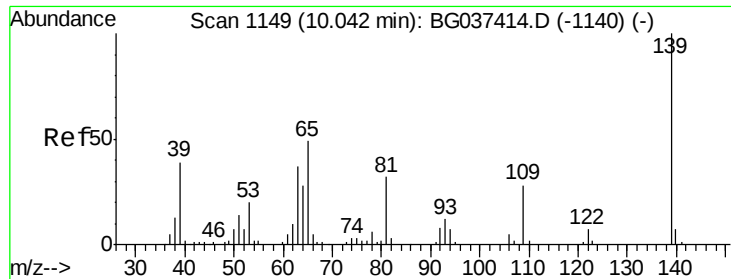
Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.0	34.6	51.8
54	53.8	45.3	67.9



#25
 Isophorone
 Concen: 2.125 ng
 RT: 9.84 min Scan# 1116
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion	Ratio	Lower	Upper
82	100		
95	5.1	5.3	7.9#
138	16.8	13.3	19.9

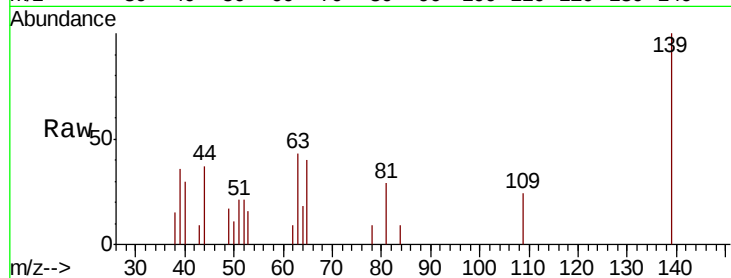




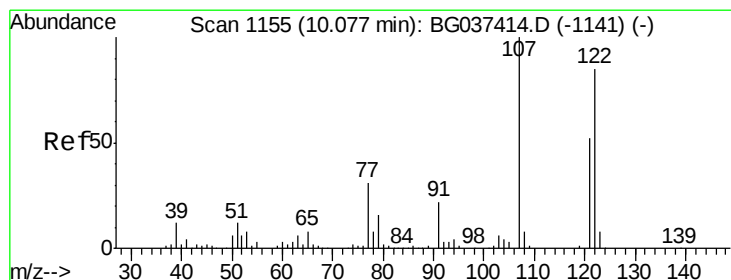
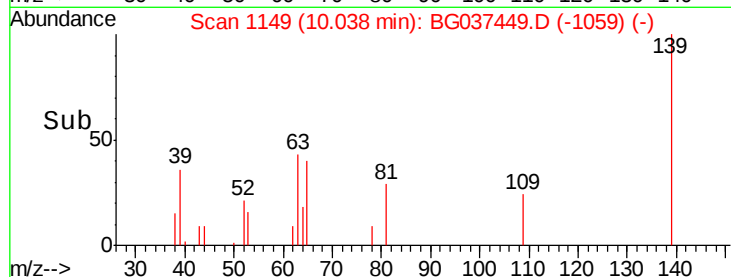
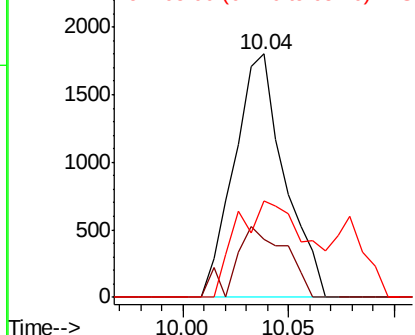
#26
 2-Nitrophenol
 Concen: 1.543 ng
 RT: 10.04 min Scan# 1149
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:139 Resp: 2976
 Ion Ratio Lower Upper
 139 100
 109 23.9 23.3 34.9
 65 39.6 39.8 59.8#

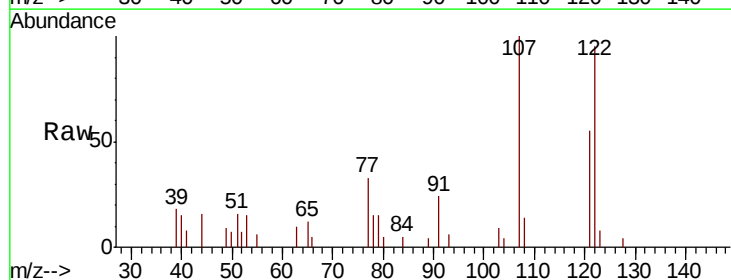


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): E

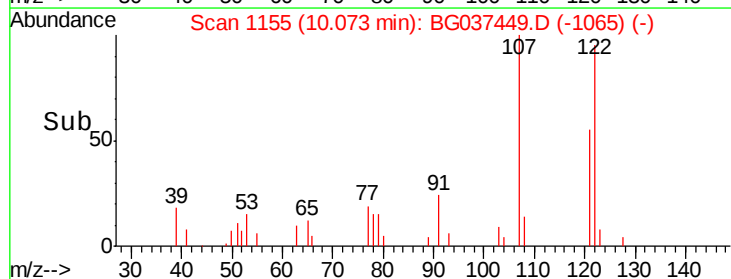
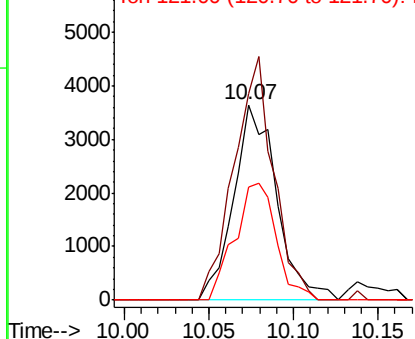


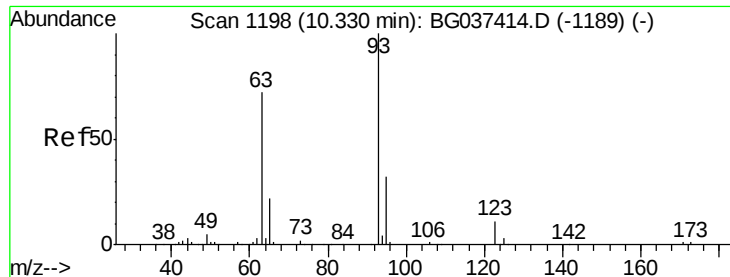
#27
 2,4-Dimethylphenol
 Concen: 1.878 ng
 RT: 10.07 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion:122 Resp: 6470
 Ion Ratio Lower Upper
 122 100
 107 105.3 94.2 141.2
 121 57.7 47.3 70.9



Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E

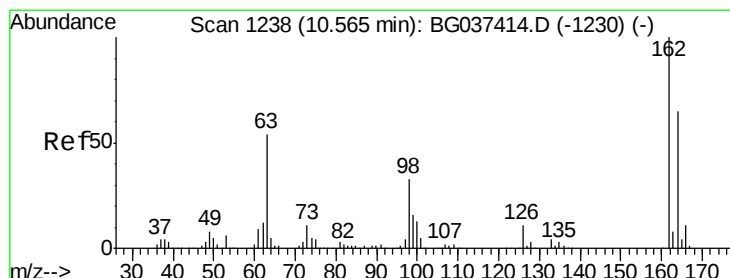
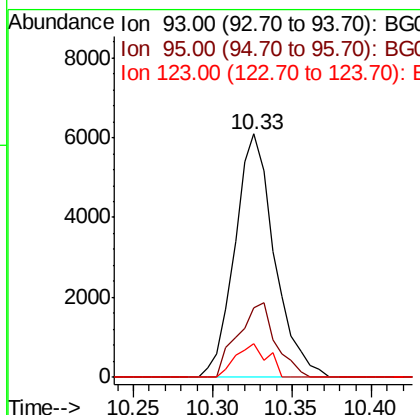
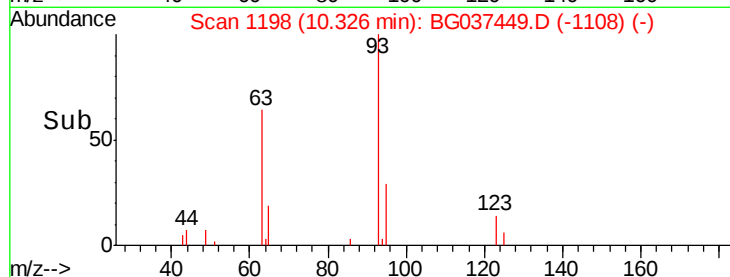
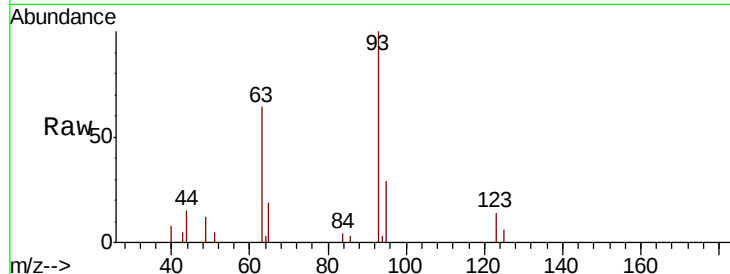




#28
bis(2-Chloroethoxy)methane
Concen: 2.138 ng
RT: 10.33 min Scan# 1198
Delta R.T. -0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

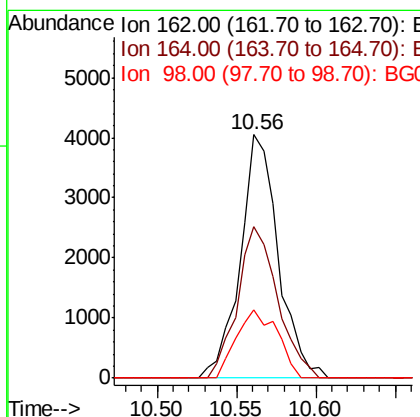
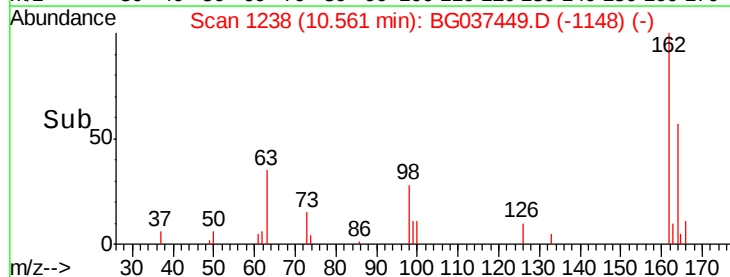
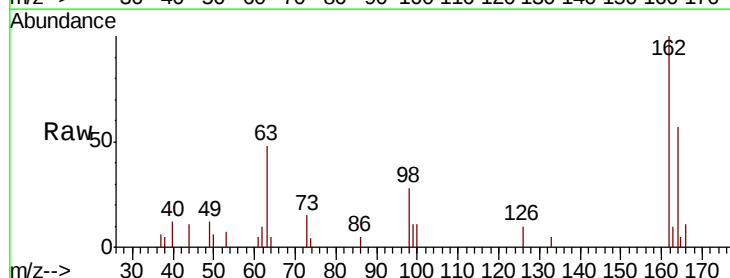
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

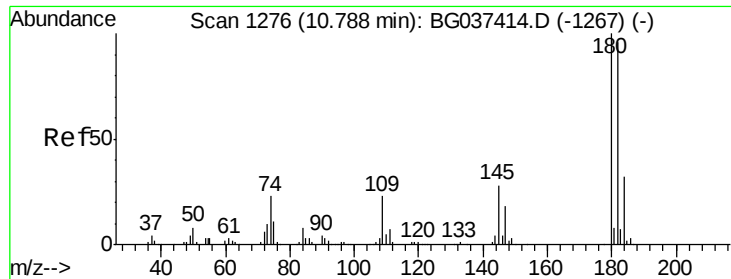
Tgt Ion: 93 Resp: 10551
Ion Ratio Lower Upper
93 100
95 28.7 24.6 37.0
123 13.7 9.1 13.7#



#29
2,4-Dichlorophenol
Concen: 1.754 ng
RT: 10.56 min Scan# 1238
Delta R.T. -0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

Tgt Ion: 162 Resp: 6727
Ion Ratio Lower Upper
162 100
164 62.0 43.2 83.2
98 28.2 16.0 56.0

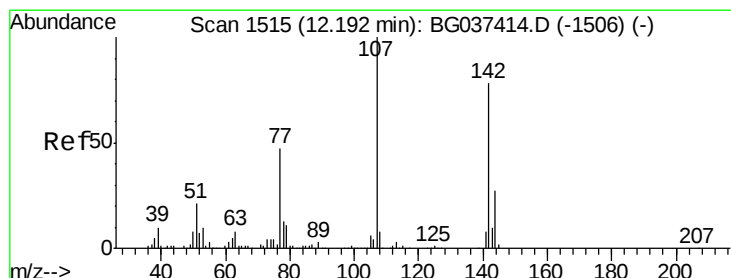
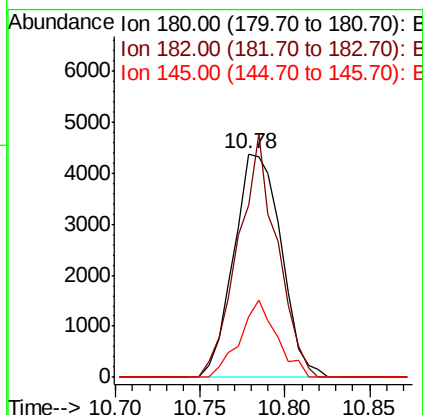
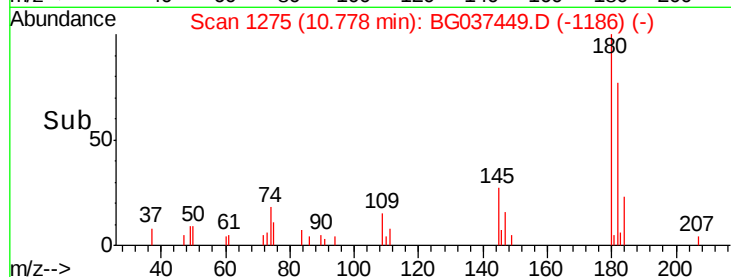
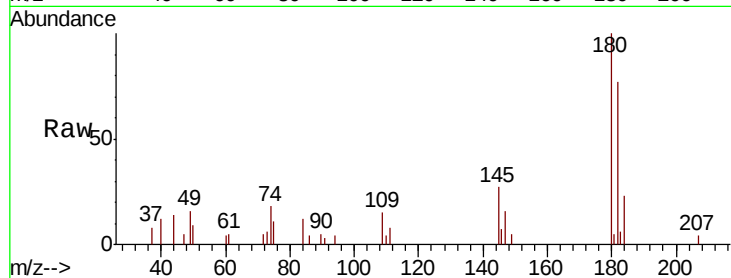




#30
 1,2,4-Trichlorobenzene
 Concen: 2.037 ng
 RT: 10.78 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

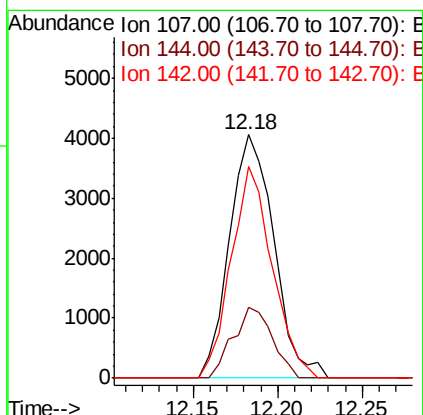
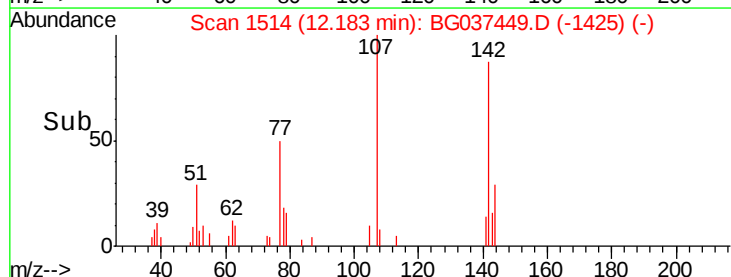
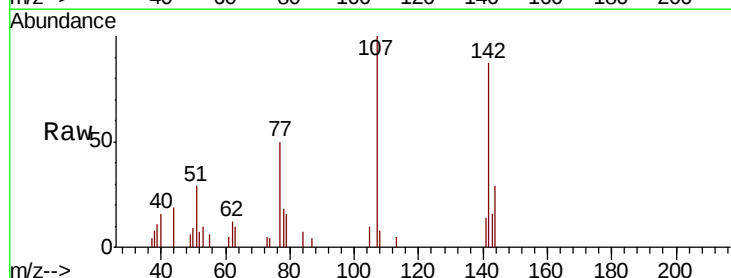
Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

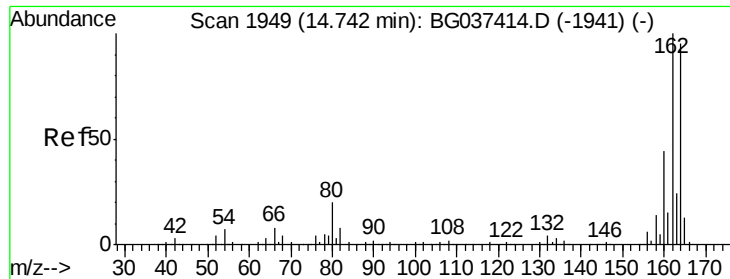
Tgt Ion:180 Resp: 8495
 Ion Ratio Lower Upper
 180 100
 182 77.1 77.7 116.5#
 145 27.3 23.3 34.9



#36
 4-Chloro-3-methylphenol
 Concen: 1.716 ng
 RT: 12.18 min Scan# 1514
 Delta R.T. -0.01 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion:107 Resp: 7421
 Ion Ratio Lower Upper
 107 100
 144 28.9 20.7 31.1
 142 87.0 64.4 96.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.74 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

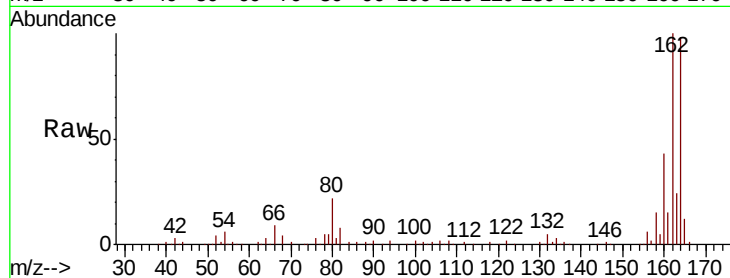
Tgt Ion:164 Resp: 152672

Ion Ratio Lower Upper

164 100

162 102.4 81.3 121.9

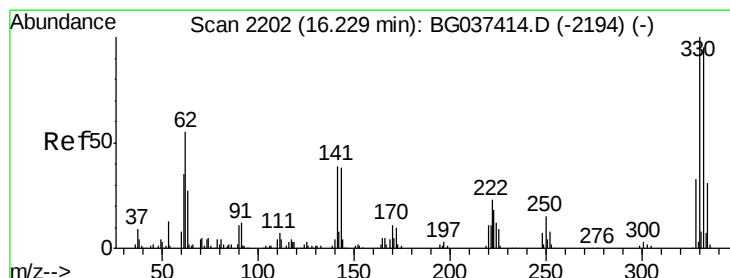
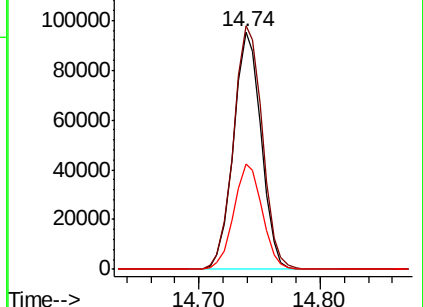
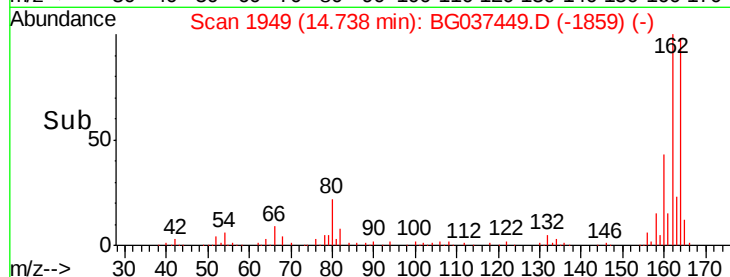
160 44.4 36.3 54.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 137.875 ng

RT: 16.22 min Scan# 2202

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

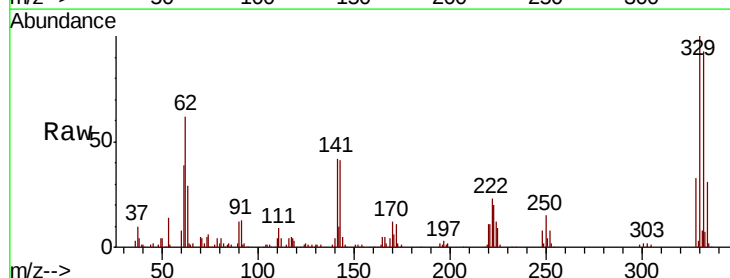
Tgt Ion:330 Resp: 229586

Ion Ratio Lower Upper

330 100

332 95.4 78.4 117.6

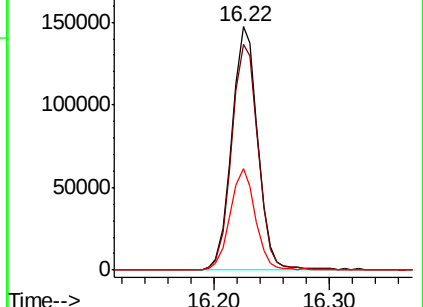
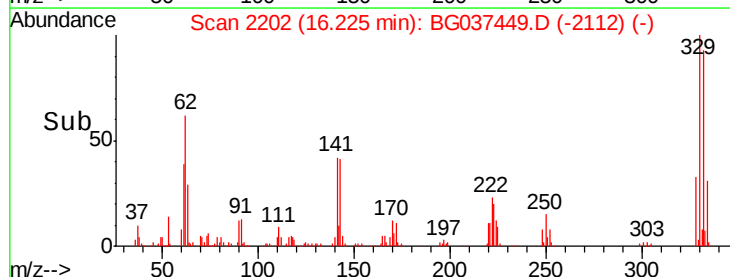
141 40.6 32.2 48.2

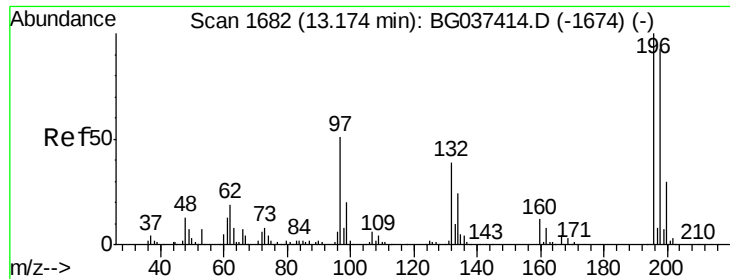


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

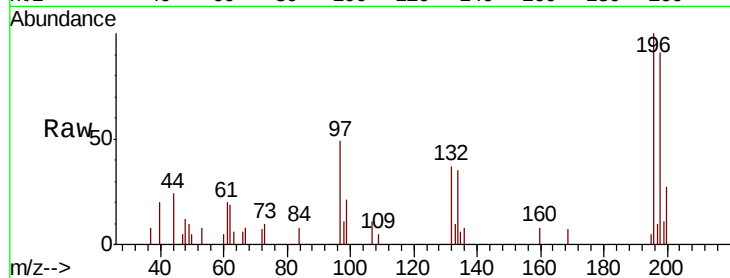




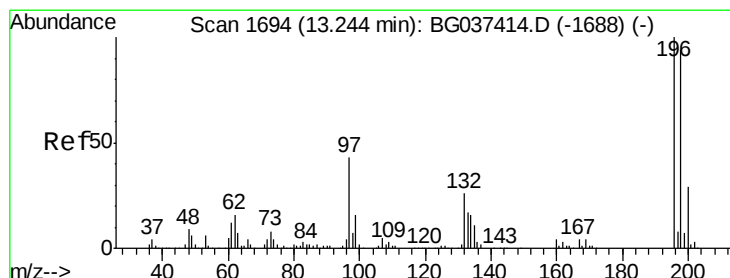
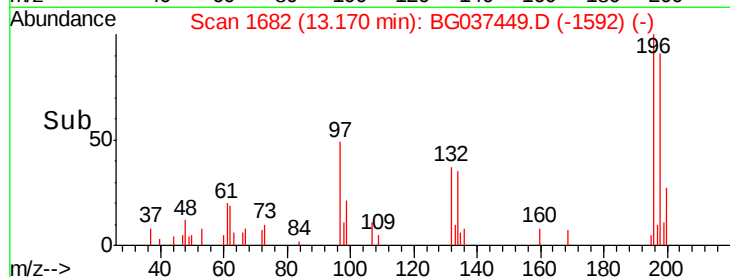
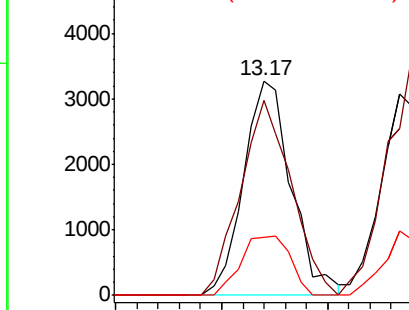
#43
 2,4,6-Trichlorophenol
 Concen: 1.566 ng
 RT: 13.17 min Scan# 1682
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:196 Resp: 5153
 Ion Ratio Lower Upper
 196 100
 198 90.9 76.4 114.6
 200 26.8 24.9 37.3

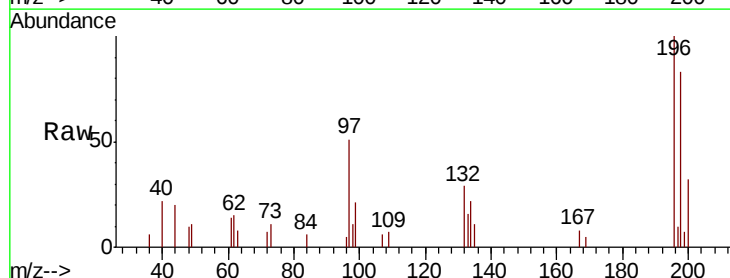


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

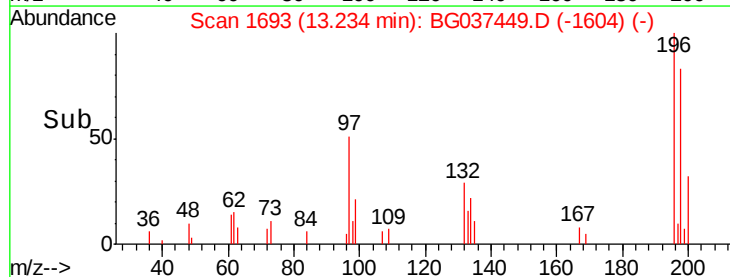
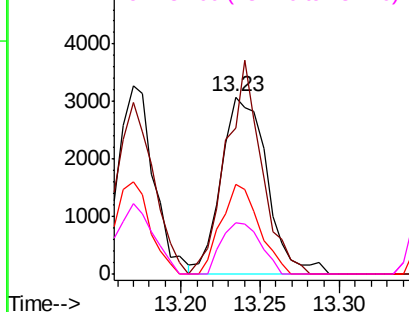


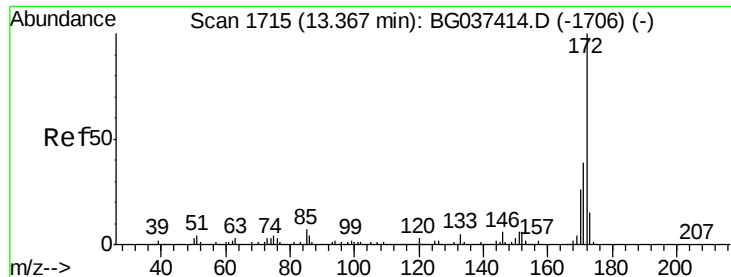
#44
 2,4,5-Trichlorophenol
 Concen: 1.718 ng
 RT: 13.23 min Scan# 1693
 Delta R.T. -0.01 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion:196 Resp: 6155
 Ion Ratio Lower Upper
 196 100
 198 82.9 74.2 111.2
 97 51.0 34.1 51.1
 132 29.1 20.2 30.4



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BGC
 Ion 132.00 (131.70 to 132.70): E

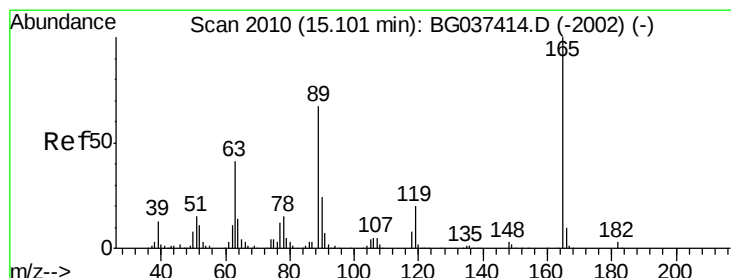
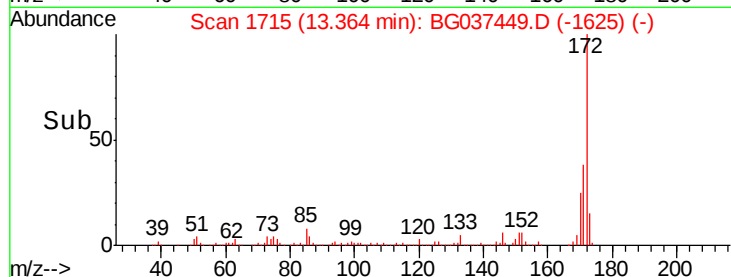
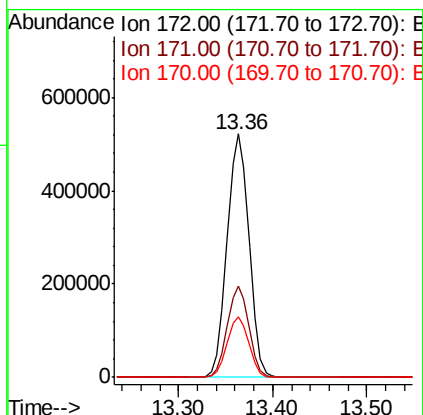
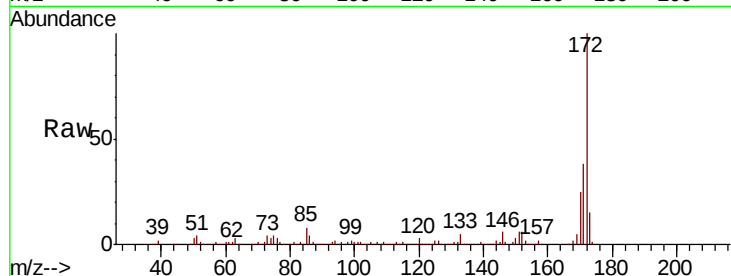




#45
 2-Fluorobiphenyl
 Concen: 83.416 ng
 RT: 13.36 min Scan# 1715
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

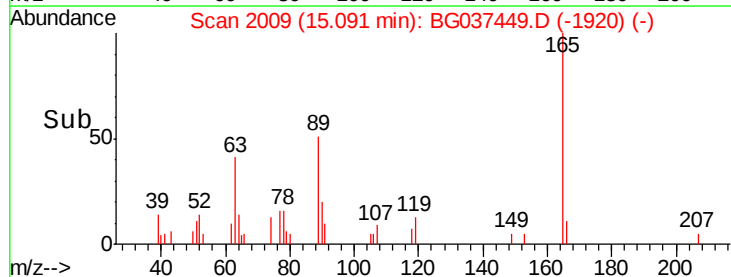
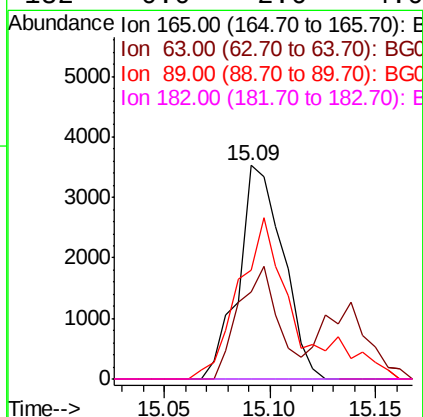
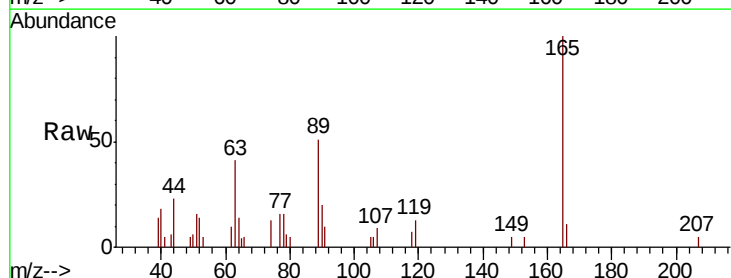
Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

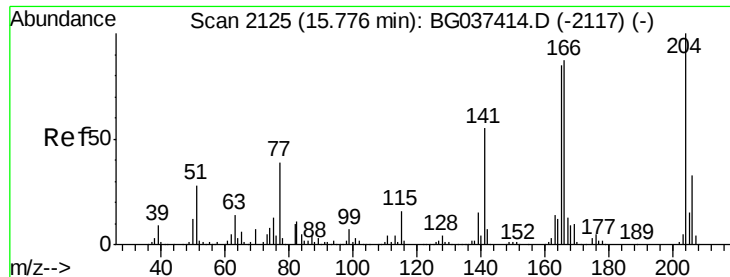
Tgt Ion:172 Resp: 844548
 Ion Ratio Lower Upper
 172 100
 171 37.6 31.0 46.4
 170 25.1 20.2 30.2



#57
 2,4-Dinitrotoluene
 Concen: 1.500 ng
 RT: 15.09 min Scan# 2009
 Delta R.T. -0.01 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion:165 Resp: 5143
 Ion Ratio Lower Upper
 165 100
 63 40.7 33.4 50.0
 89 50.9 57.2 85.8#
 182 0.0 2.6 4.0#

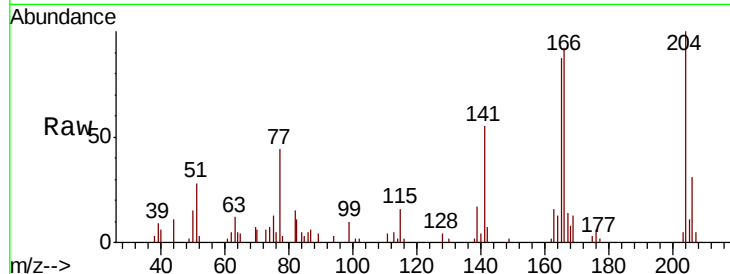




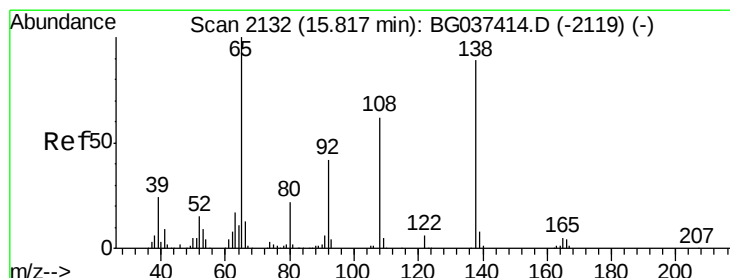
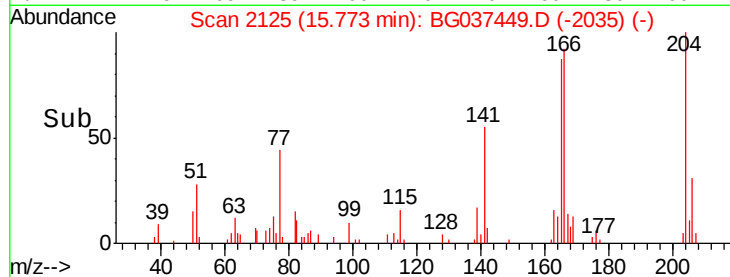
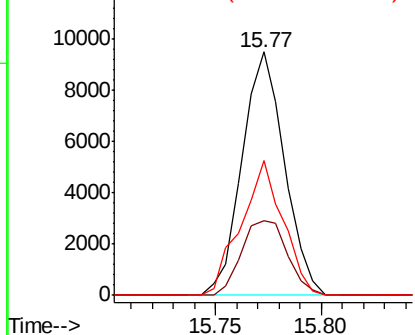
#61
 4-Chlorophenyl-phenylether
 Concen: 2.058 ng
 RT: 15.77 min Scan# 2125
 Delta R.T. -0.00 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion: 204 Resp: 13191
 Ion Ratio Lower Upper
 204 100
 206 30.8 26.6 39.8
 141 55.1 45.4 68.2

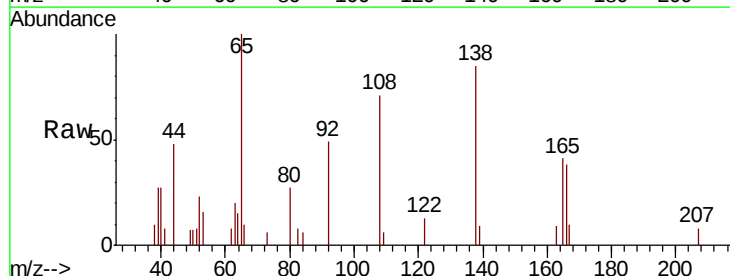


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

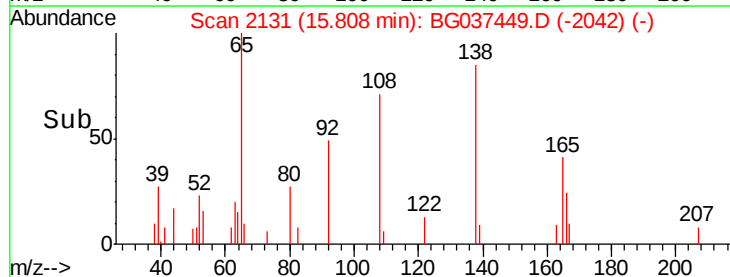
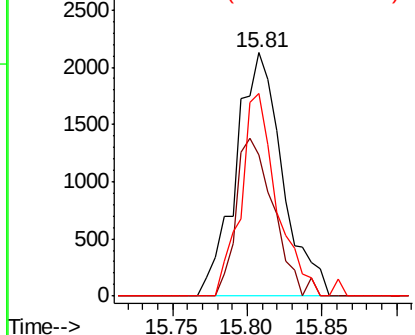


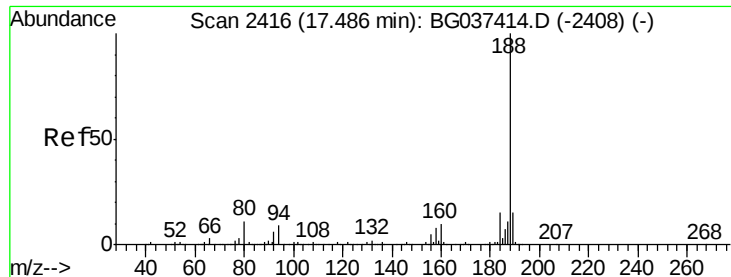
#62
 4-Nitroaniline
 Concen: 1.600 ng
 RT: 15.81 min Scan# 2131
 Delta R.T. -0.01 min
 Lab File: BG037449.D
 Acq: 19 Oct 2018 12:03

Tgt Ion: 138 Resp: 4611
 Ion Ratio Lower Upper
 138 100
 92 58.1 36.4 76.4
 108 83.2 60.1 100.1



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

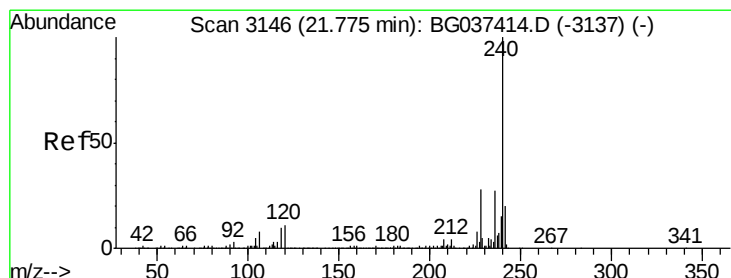
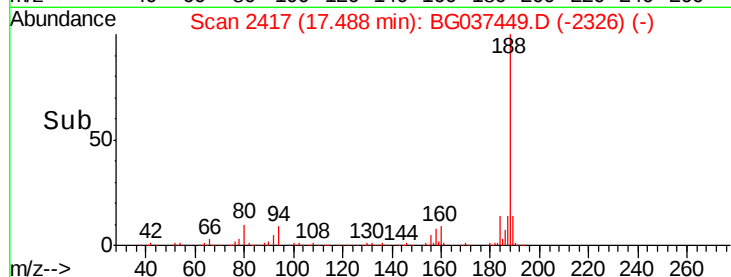
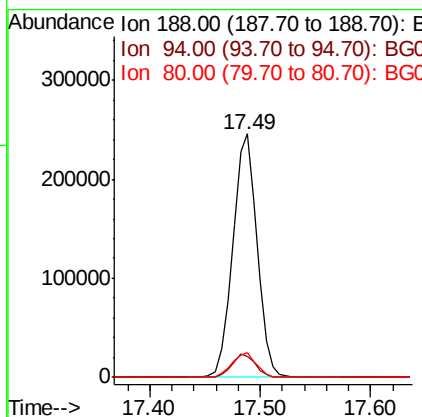
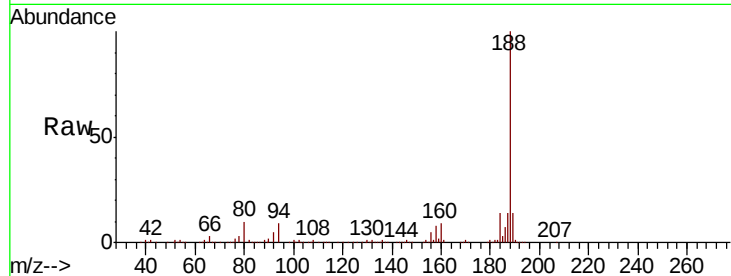




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.49 min Scan# 2417
Delta R.T. 0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

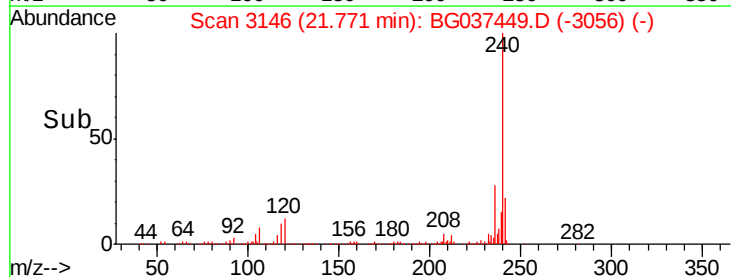
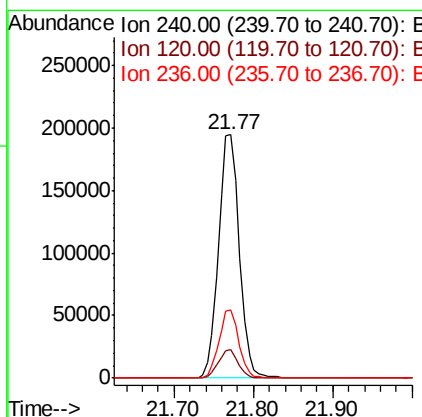
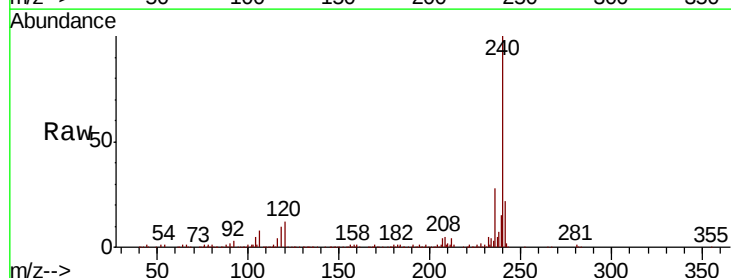
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

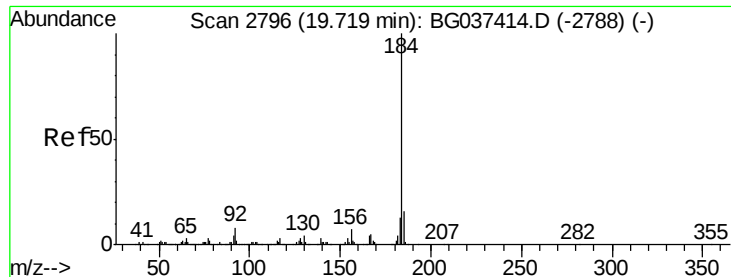
Tgt Ion:188 Resp: 379644
Ion Ratio Lower Upper
188 100
94 8.6 7.2 10.8
80 10.0 7.7 11.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.77 min Scan# 3146
Delta R.T. -0.00 min
Lab File: BG037449.D
Acq: 19 Oct 2018 12:03

Tgt Ion:240 Resp: 354097
Ion Ratio Lower Upper
240 100
120 11.8 8.1 12.1
236 27.9 21.4 32.0





#77

Benzidine

Concen: 0.399 ng

RT: 19.71 min Scan# 2796

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

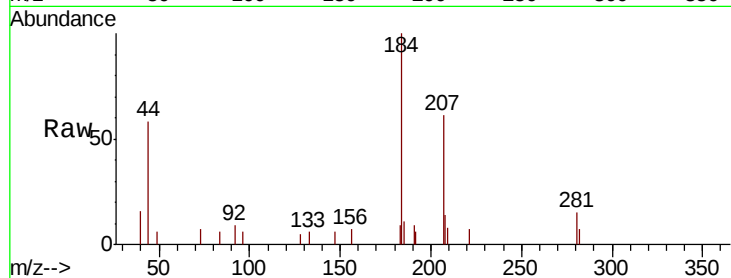
Tgt Ion:184 Resp: 4801

Ion Ratio Lower Upper

184 100

185 10.6 12.6 18.8#

183 9.4 10.2 15.2#

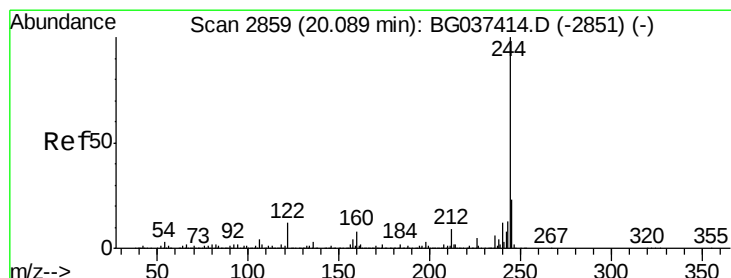
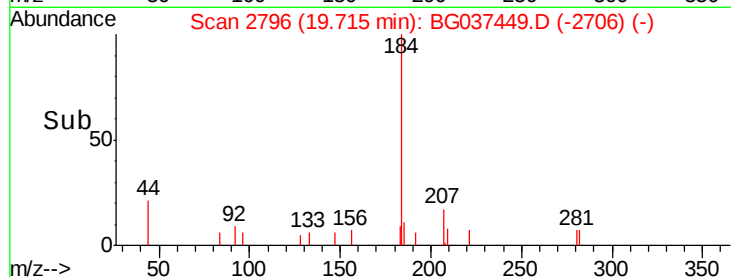
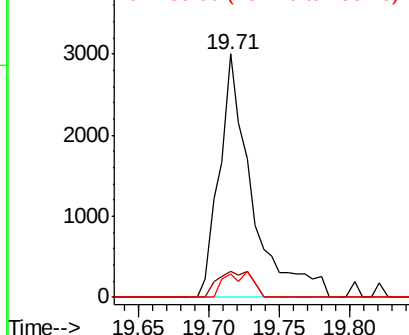


Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 78.593 ng

RT: 20.09 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

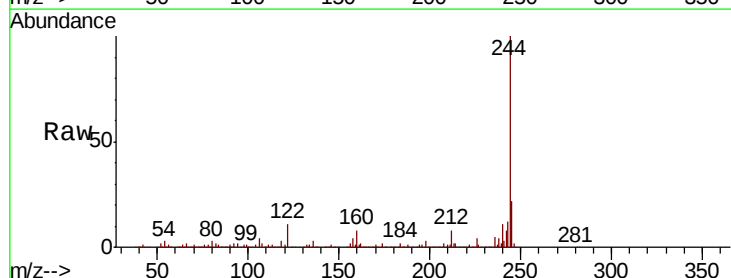
Tgt Ion:244 Resp: 1302416

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

122 11.4 9.0 13.4

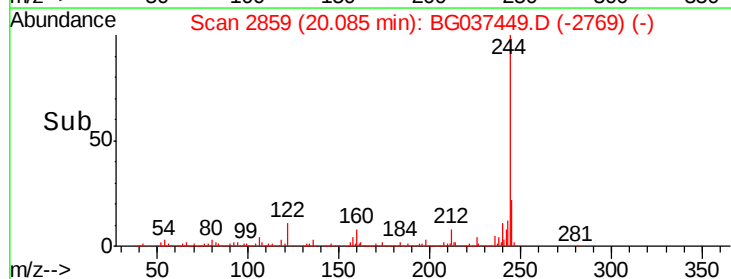
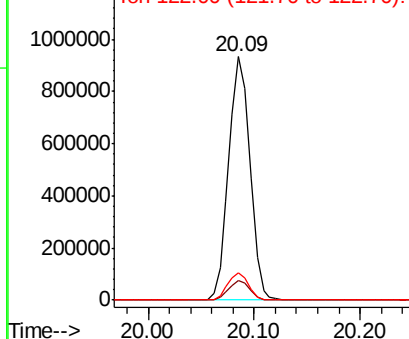


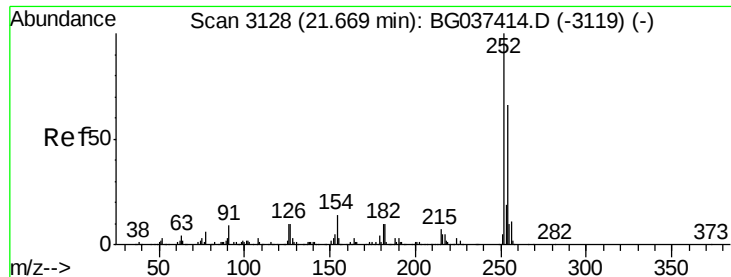
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#82

3,3'-Dichlorobenzidine

Concen: 1.139 ng

RT: 21.67 min Scan# 3128

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

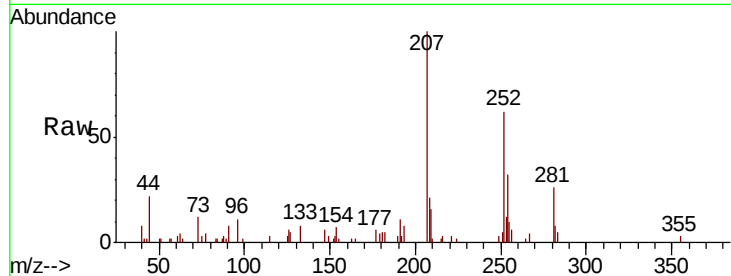
Tgt Ion:252 Resp: 9244

Ion Ratio Lower Upper

252 100

254 51.4 52.0 78.0#

126 10.1 8.2 12.4

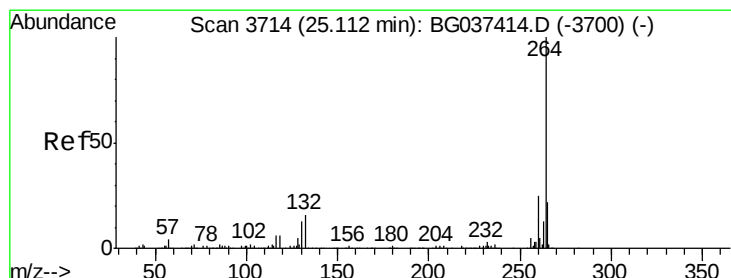
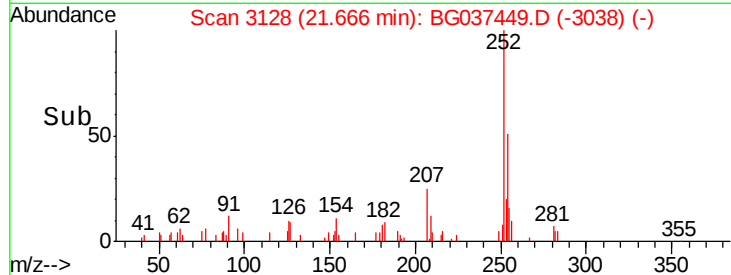
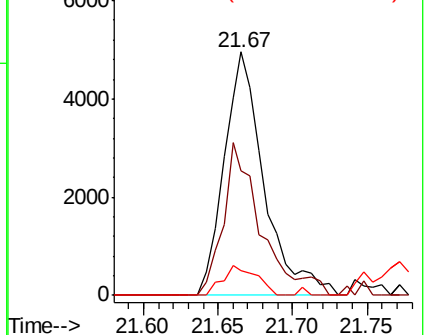


Abundance

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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.11 min Scan# 3714

Delta R.T. -0.00 min

Lab File: BG037449.D

Acq: 19 Oct 2018 12:03

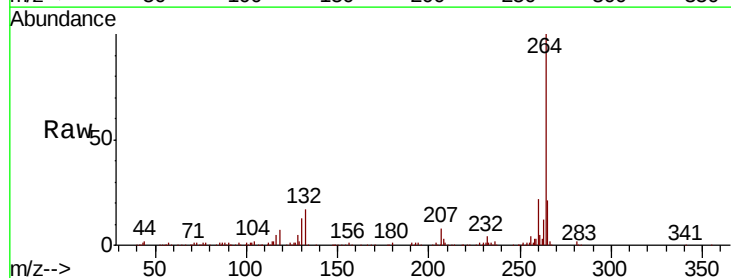
Tgt Ion:264 Resp: 347445

Ion Ratio Lower Upper

264 100

260 22.3 18.2 27.4

265 21.5 17.9 26.9



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

