

Data Path : Z:\HPCHEM1\BNA G\DATA\BG020618\
 Data File : BG032567.D
 Acq On : 6 Feb 2018 15:54
 Operator : SJ/JU
 Sample : J1161-01
 Misc : LOD-S-1 ppm
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

Manual Integrations
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Sohil
 2/7/2018 4:14:28 PM

Quant Time: Feb 07 11:38:31 2018
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 06 18:57:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.72	152	13812	20.00	ng	0.00
21) Naphthalene-d8	11.59	136	56384	20.00	ng	0.00
38) Acenaphthene-d10	15.34	164	40851	20.00	ng	0.00
63) Phenanthrene-d10	18.08	188	135374	20.00	ng	0.00
75) Chrysene-d12	22.40	240	165738	20.00	ng	0.00
86) Perylene-d12	26.07	264	204860	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.16	112	83987	122.13	ng	0.01
7) Phenol-d6	7.84	99	111517	121.53	ng	0.01
23) Nitrobenzene-d5	9.91	82	53823	59.62	ng	0.00
41) 2,4,6-Tribromophenol	16.82	330	93124	119.76	ng	0.00
44) 2-Fluorobiphenyl	13.97	172	213256	62.05	ng	0.00
78) Terphenyl-d14	20.61	244	572814	74.03	ng	0.00

Target Compounds

						Qvalue
3) Pyridine	4.29	79	166	0.266	ng	# 15
4) n-Nitrosodimethylamine	4.22	42	112	0.344	ng	# 1
6) Aniline	8.02	93	558	0.488	ng	# 41
8) 2-Chlorophenol	8.27	128	1057	1.300	ng	# 59
9) Benzaldehyde	7.83	77	600	1.266	ng	# 76
10) Phenol	7.87	94	1160m	1.331	ng	
11) bis(2-Chloroethyl)ether	8.12	93	654m	0.985	ng	
12) 1,3-Dichlorobenzene	8.60	146	1105	1.005	ng	# 79
13) 1,4-Dichlorobenzene	8.76	146	1184	1.075	ng	# 64
14) 1,2-Dichlorobenzene	9.08	146	1065	0.987	ng	# 64
15) Benzyl Alcohol	8.96	79	194	0.257	ng	# 18
16) 2,2'-oxybis(1-Chloropropan	9.24	45	503	0.799	ng	# 75
17) 2-Methylphenol	9.17	107	261	0.369	ng	# 37
18) Hexachloroethane	9.83	117	393	1.062	ng	# 34
19) n-Nitroso-di-n-propylamine	9.53	70	279	0.459	ng	# 82
20) 3+4-Methylphenols	9.50	107	382	0.385	ng	# 24
22) Acetophenone	9.55	105	628	0.475	ng	# 56
24) Nitrobenzene	9.95	77	940m	1.077	ng	
25) Isophorone	10.47	82	1751	1.139	ng	# 74
26) 2-Nitrophenol	10.69	139	189	0.358	ng	# 59
27) 2,4-Dimethylphenol	10.73	122	424	0.560	ng	# 49
31) Naphthalene	11.64	128	3114	1.131	ng	# 74
34) Hexachlorobutadiene	11.91	225	964	0.927	ng	# 88
37) 2-Methylnaphthalene	13.21	142	1895m	0.819	ng	
39) 1,2,4,5-Tetrachlorobenzene	13.55	216	1860	0.973	ng	# 83
45) 1,1'-Biphenyl	14.18	154	3913	1.134	ng	# 98
46) 2-Chloronaphthalene	14.25	162	2688	0.994	ng	# 76
47) 2-Nitroaniline	14.44	65	233	0.389	ng	# 50
48) Acenaphthylene	15.07	152	4575	1.119	ng	# 93
49) Dimethylphthalate	14.76	163	3313	0.880	ng	# 93
50) 2,6-Dinitrotoluene	14.90	165	657	0.831	ng	# 48
51) Acenaphthene	15.40	154	3101	1.093	ng	# 81
54) Dibenzofuran	15.73	168	4226	1.007	ng	# 82
57) Fluorene	16.38	166	3720	1.066	ng	# 91

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Instrument :
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 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

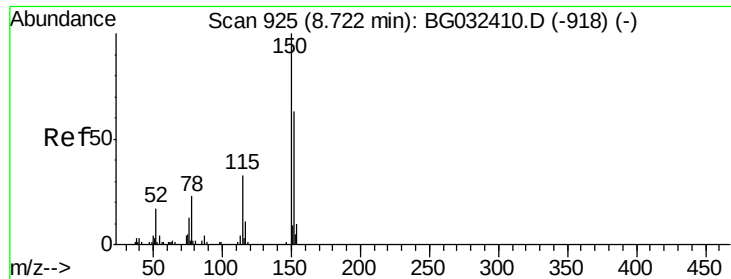
Manual Integrations
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 2/7/2018 4:14:28 PM

Quant Time: Feb 07 11:38:31 2018
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 06 18:57:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 2,3,4,6-Tetrachlorophenol	15.95	232	613	0.513	nq	# 48
59) Diethylphthalate	16.11	149	3535	0.964	nq	97
62) Azobenzene	16.66	77	2063	0.941	nq	77
65) n-Nitrosodiphenylamine	16.57	169	3195	0.791	nq	# 73
66) 4-Bromophenyl-phenylether	17.25	248	1923	0.959	nq	# 61
67) Hexachlorobenzene	17.38	284	2458	1.107	nq	# 88
68) Atrazine	17.50	200	1911	1.102	nq	90
70) Phenanthrene	18.12	178	8006	1.060	nq	# 88
71) Anthracene	18.21	178	8153	1.085	nq	# 85
72) Carbazole	18.48	167	6333	0.954	nq	97
73) Di-n-butylphthalate	18.98	149	7462	1.015	nq	# 94
74) Fluoranthene	20.08	202	10114	1.022	nq	99
77) Pyrene	20.44	202	10986	1.081	nq	96
79) Butylbenzylphthalate	21.30	149	3423	1.068	nq	# 87
80) Benzo(a)anthracene	22.38	228	11423	1.112	nq	96
82) Chrysene	22.45	228	11034	1.112	nq	# 87
83) Bis(2-ethylhexyl)phthalate	22.22	149	5304	1.167	nq	# 91
84) Di-n-octyl phthalate	23.58	149	8169	1.133	nq	# 74
85) Indeno(1,2,3-cd)pyrene	30.30	276	13124m	1.046	nq	
87) Benzo(b)fluoranthene	24.89	252	11477	0.927	nq	# 90
88) Benzo(k)fluoranthene	24.97	252	12309	1.004	nq	# 96
89) Benzo(a)pyrene	25.90	252	11200	0.949	nq	# 91
90) Dibenzo(a,h)anthracene	30.38	278	10143	0.840	nq	# 82
91) Benzo(g,h,i)perylene	31.65	276	11248m	0.939	nq	

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



#1

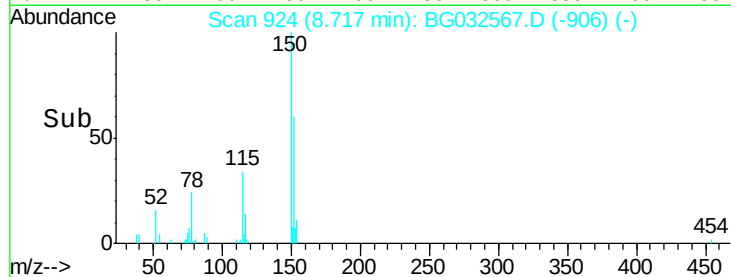
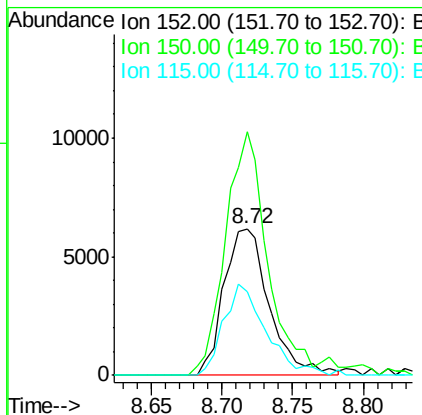
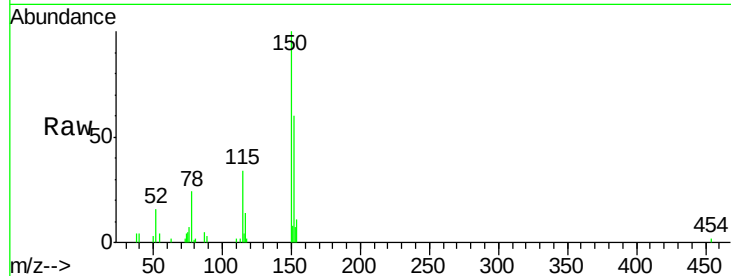
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.72 min Scan# 924
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.8	126.6	189.8
115	56.6	53.0	79.4

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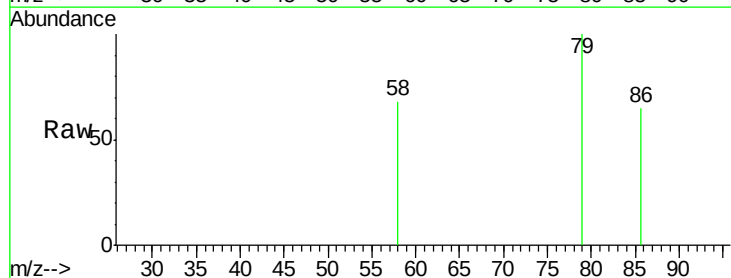
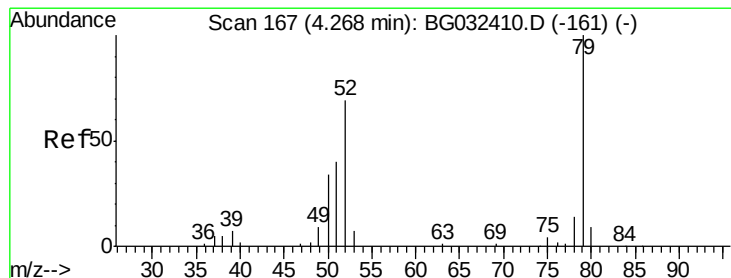
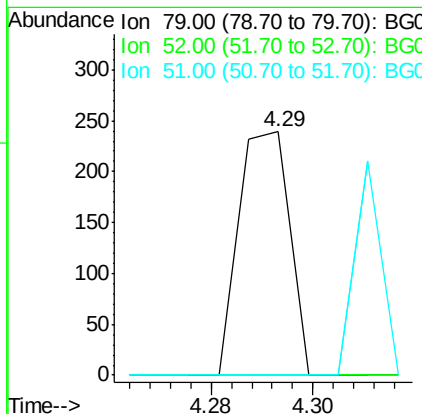
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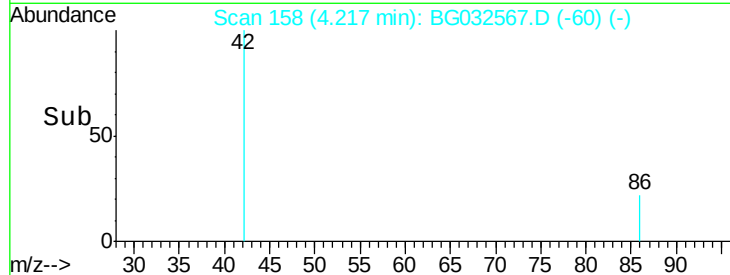
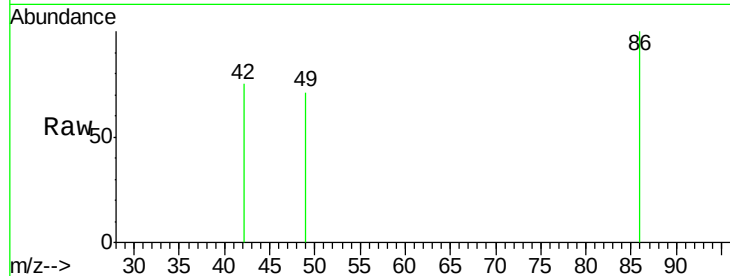
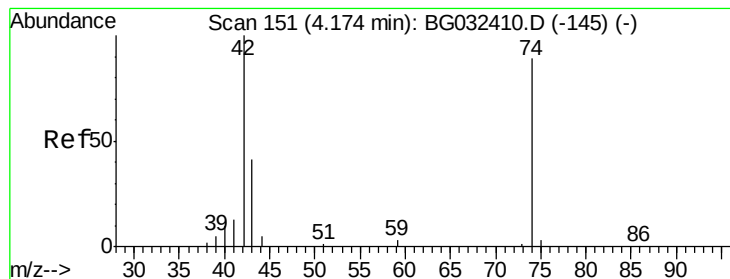


#3

Pyridine
Concen: 0.266 ng
RT: 4.29 min Scan# 171
Delta R.T. 0.03 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
79	100		
52	0.0	69.9	104.9#
51	0.0	34.0	51.0#





#4

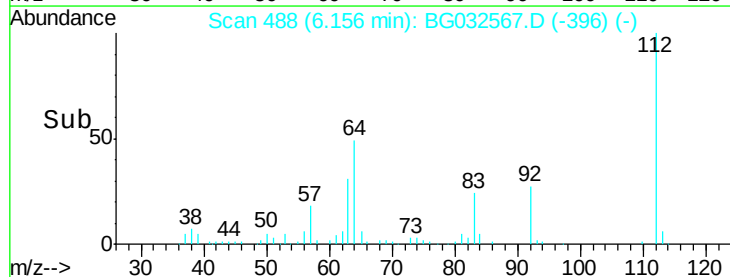
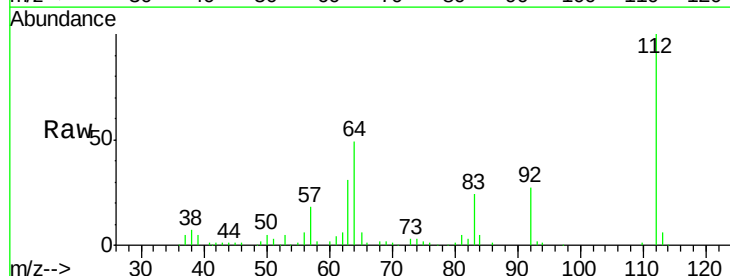
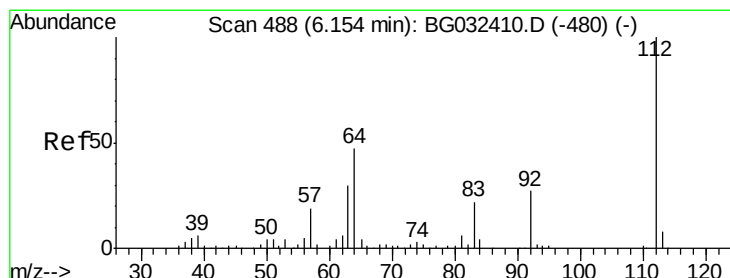
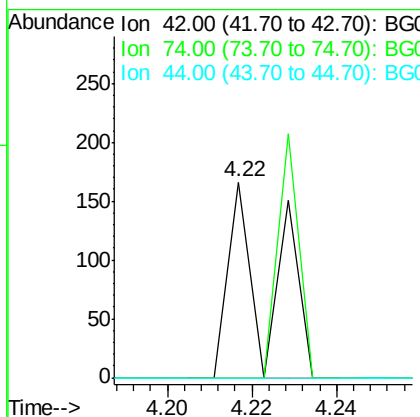
n-Nitrosodimethylamine
Concen: 0.344 ng
RT: 4.22 min Scan# 158
Delta R.T. 0.05 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tot Ion	Ratio	Lower	Upper
42	100		
74	0.0	102.5	153.7#
44	0.0	18.9	28.3#

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Manual Integrations
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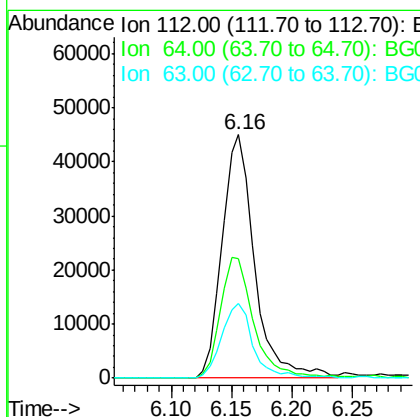
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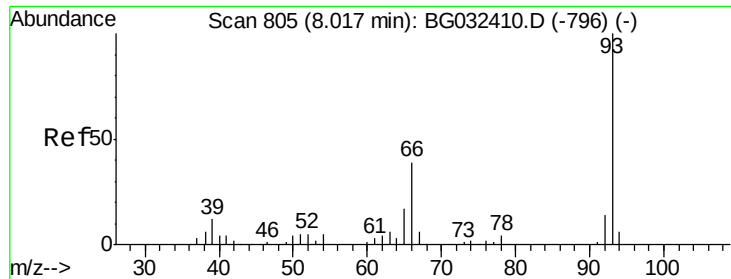


#5

2-Fluorophenol
Concen: 122.135 ng
RT: 6.16 min Scan# 488
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.2	56.3	84.5#
63	30.6	30.1	45.1





#6

Aniline

Concen: 0.488 ng

RT: 8.02 min Scan# 805

Delta R.T. 0.01 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

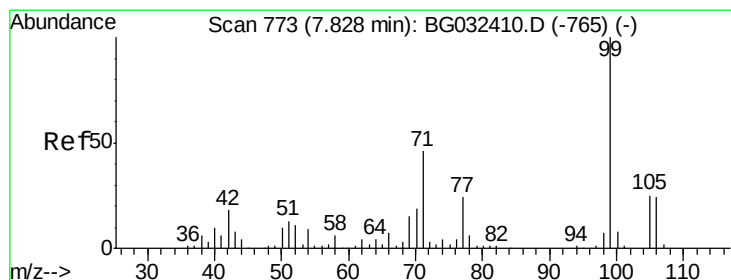
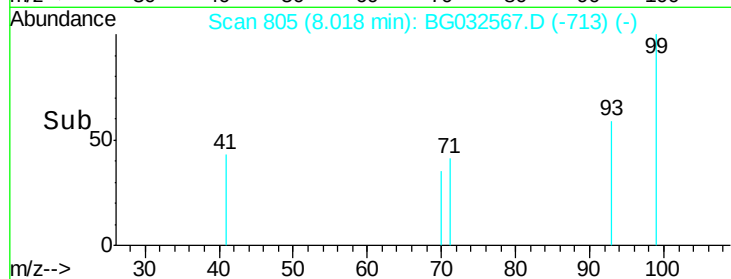
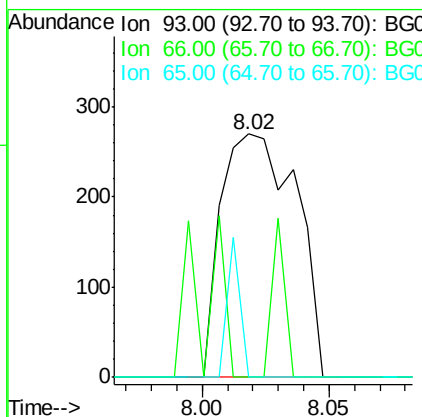
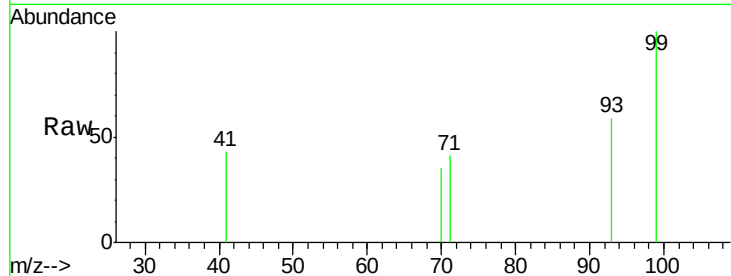
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	93	Resp:	558
Ion	Ratio	Lower	Upper
93	100		
66	0.0	33.7	50.5#
65	0.0	16.1	24.1#

Manual Integrations
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#7

Phenol-d6

Concen: 121.528 ng

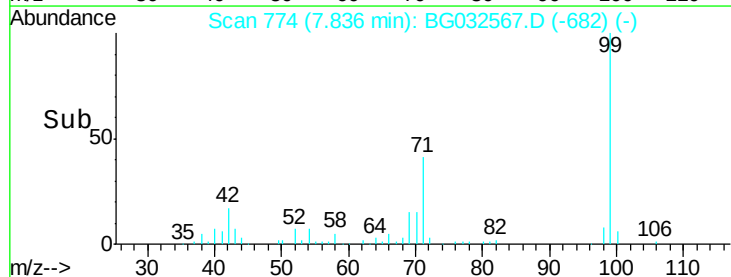
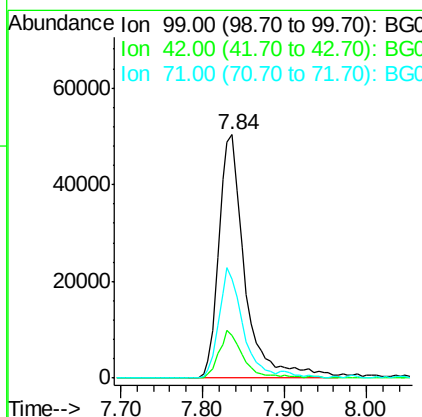
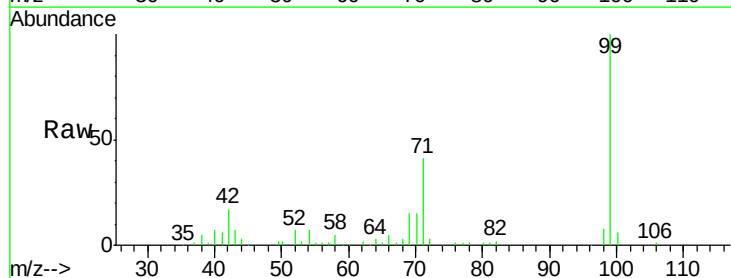
RT: 7.84 min Scan# 774

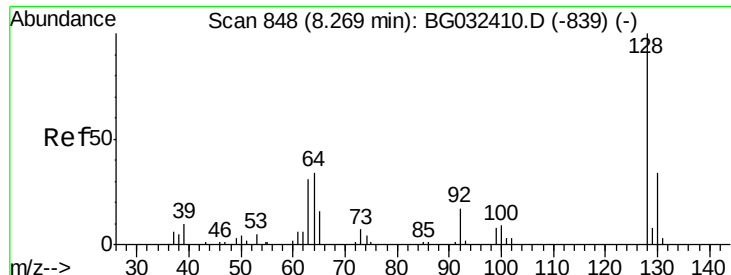
Delta R.T. 0.01 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	99	Resp:	111517
Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.1	21.1
71	40.7	26.1	39.1#





#8

2-Chlorophenol

Concen: 1.300 ng

RT: 8.27 min Scan# 847

Delta R.T. 0.01 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

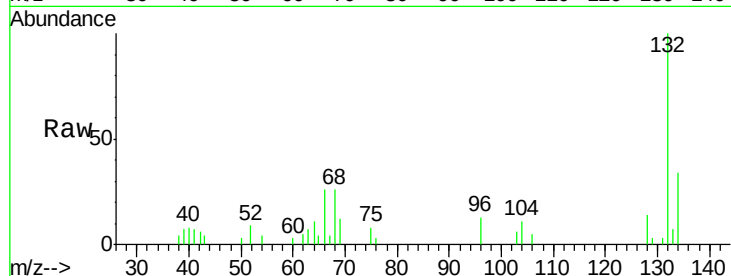
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

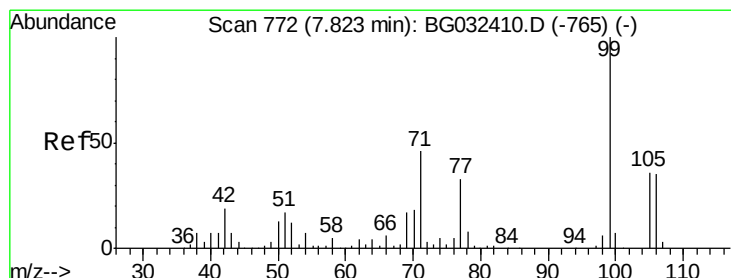
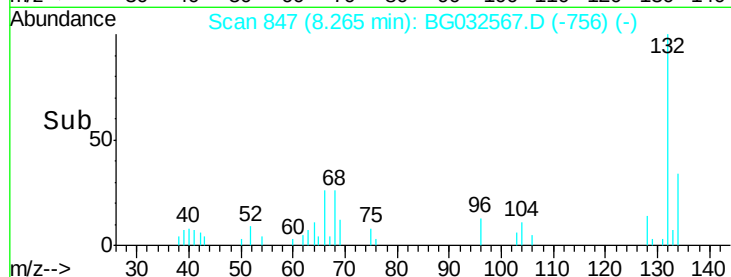
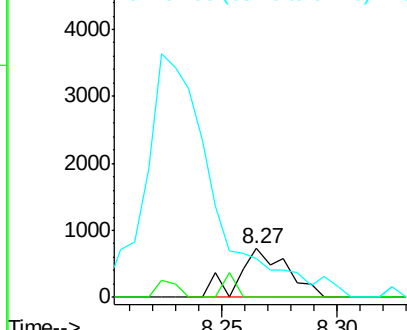
Tot Ion:	128	Resp:	1057
Ion Ratio	Lower	Upper	
128	100		
130	0.0	14.0	54.0#
64	80.6	37.7	77.7#

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BGC



#9

Benzaldehyde

Concen: 1.266 ng

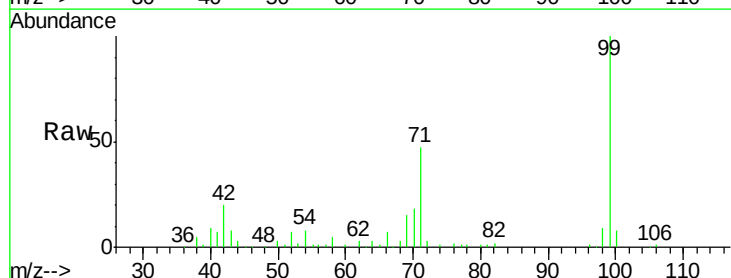
RT: 7.83 min Scan# 773

Delta R.T. 0.02 min

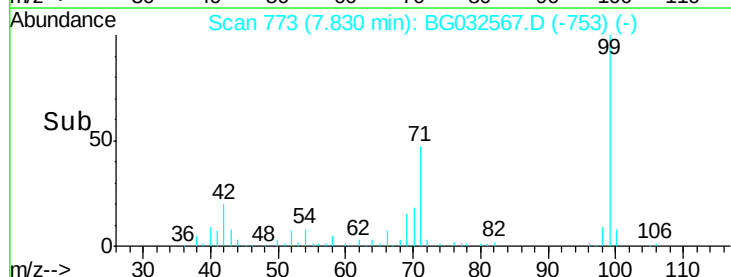
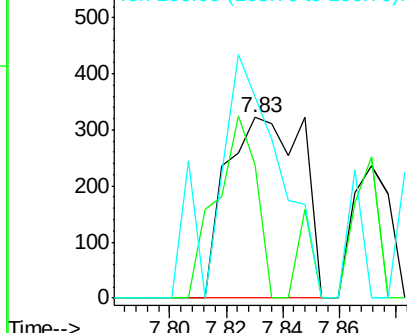
Lab File: BG032567.D

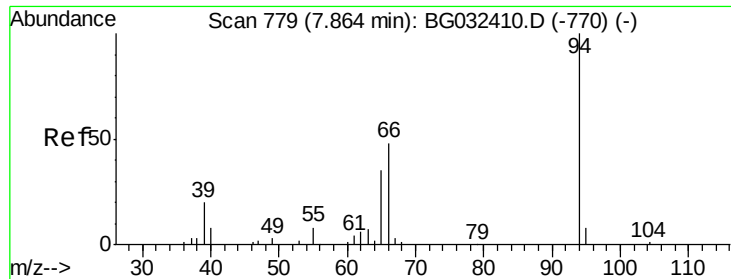
Acq: 6 Feb 2018 15:54

Tgt Ion:	77	Resp:	600
Ion Ratio	Lower	Upper	
77	100		
105	74.2	71.3	111.3
106	111.5	64.2	104.2#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

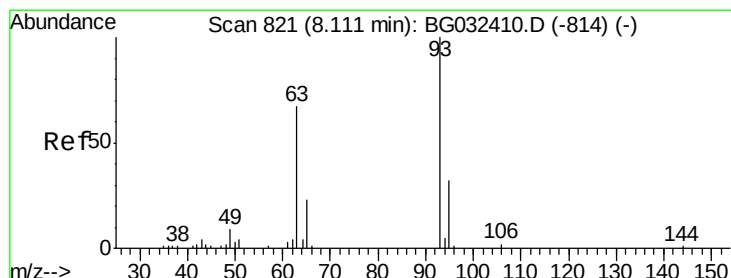
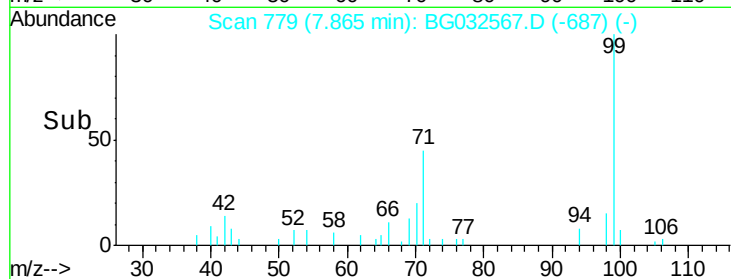
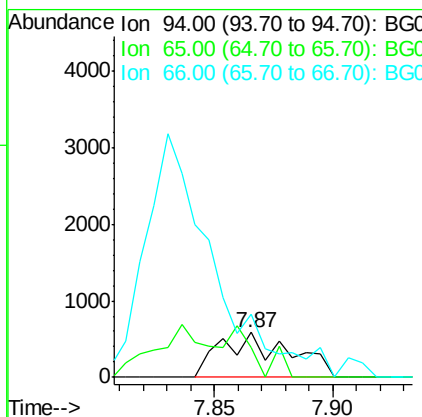
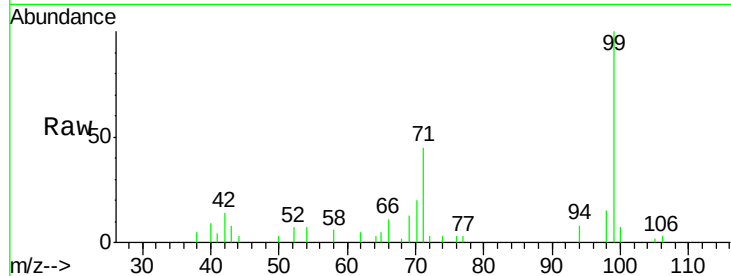
Concen: 1.331 ng m
RT: 7.87 min Scan# 779
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
94	100		
65	67.5	11.9	51.9#
66	140.3	22.2	62.2#

Manual Integrations
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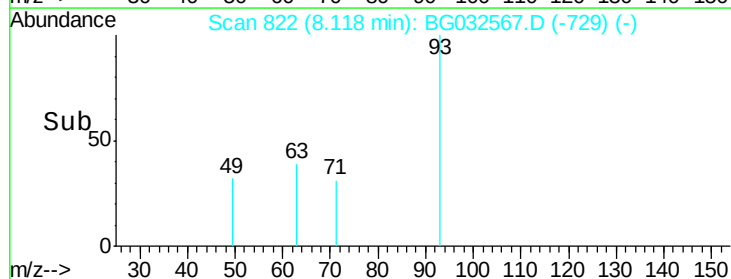
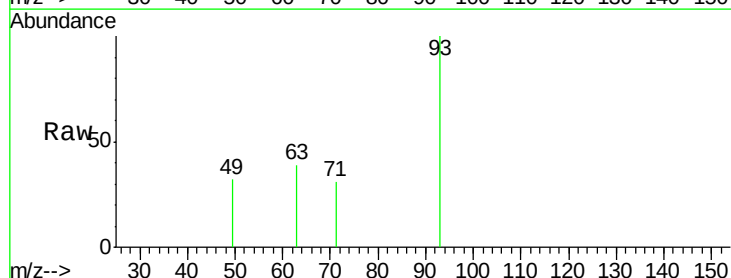
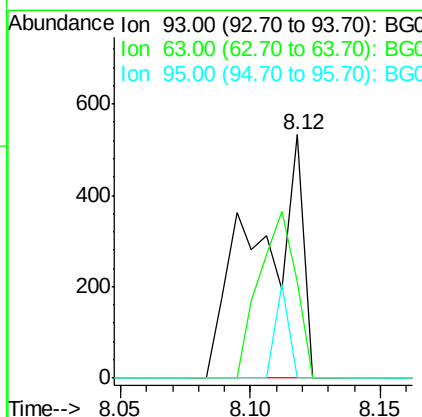


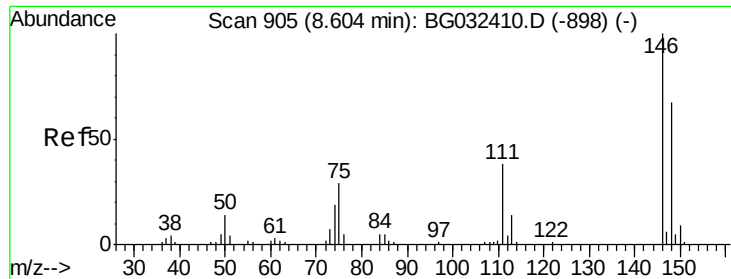
#11

bis(2-Chloroethyl)ether

Concen: 0.985 ng m
RT: 8.12 min Scan# 822
Delta R.T. 0.02 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
93	100		
63	39.4	67.1	107.1#
95	0.0	11.5	51.5#





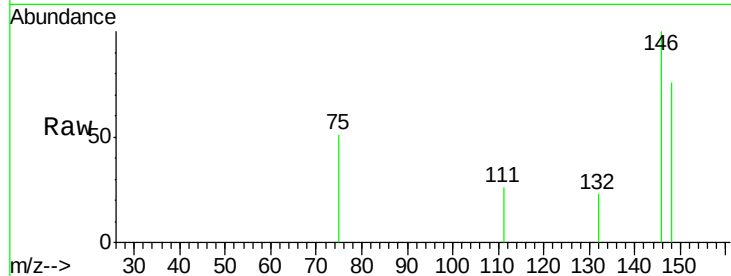
#12
 1,3-Dichlorobenzene
 Concen: 1.005 ng
 RT: 8.60 min Scan# 904
 Delta R.T. 0.01 min
 Lab File: BG032567.D
 Acq: 6 Feb 2018 15:54

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

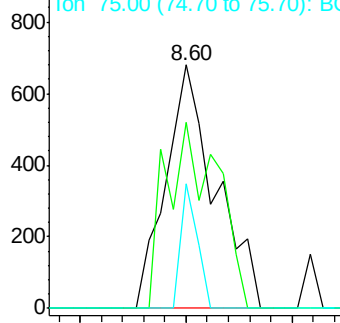
Tot Ion	Ratio	Lower	Upper
146	100		
148	76.3	51.4	77.2
75	51.2	26.6	39.8

Manual Integrations
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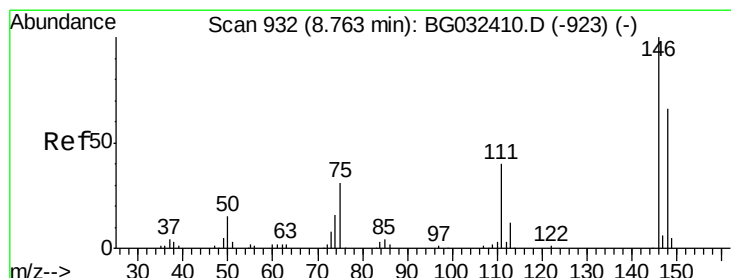
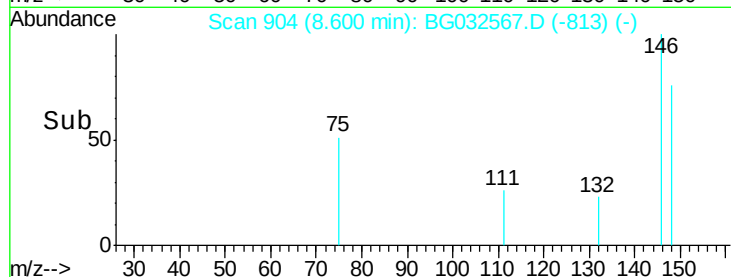
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Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): B

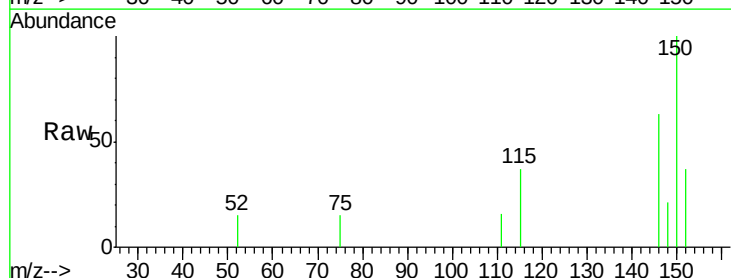


Time-->

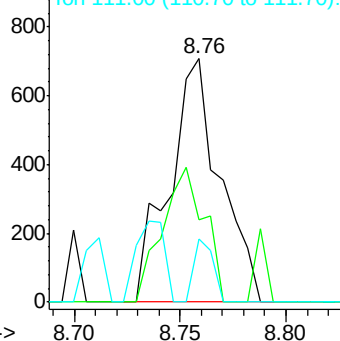


#13
 1,4-Dichlorobenzene
 Concen: 1.075 ng
 RT: 8.76 min Scan# 931
 Delta R.T. 0.01 min
 Lab File: BG032567.D
 Acq: 6 Feb 2018 15:54

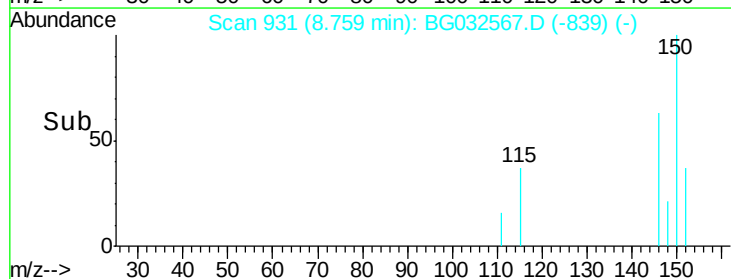
Tgt Ion	Ratio	Lower	Upper
146	100		
148	33.8	53.7	80.5
111	25.7	35.2	52.8

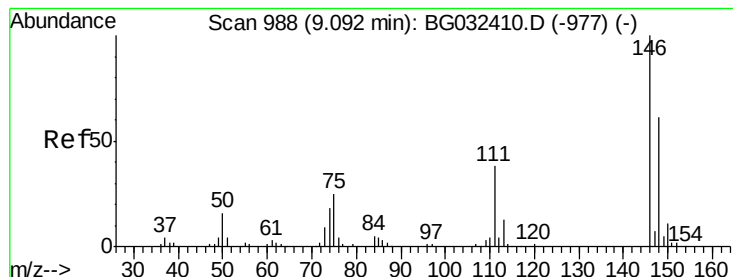


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E



Time-->





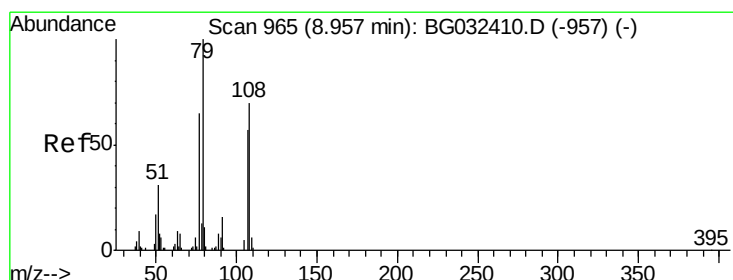
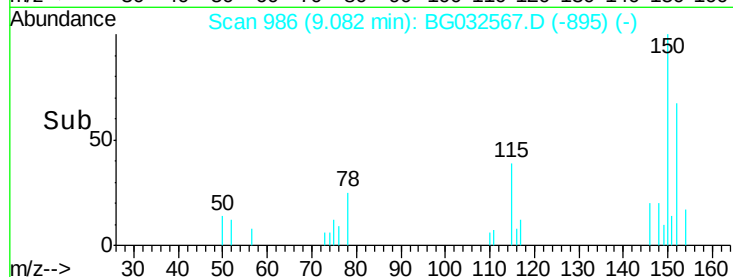
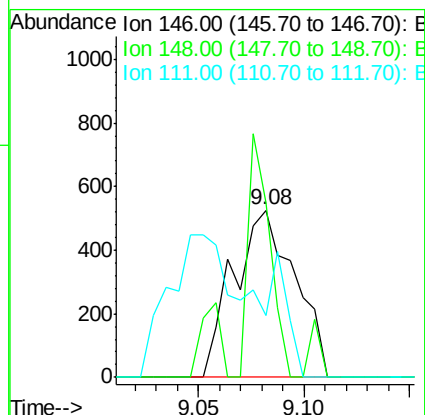
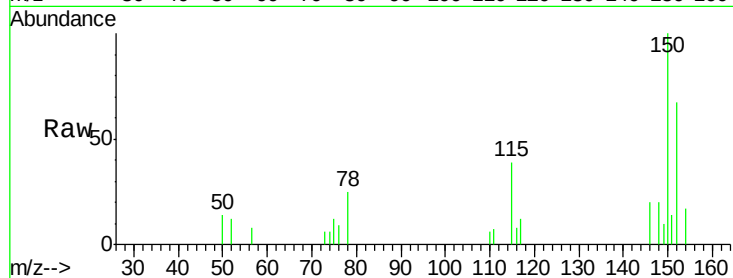
#14
1,2-Dichlorobenzene
Concen: 0.987 ng
RT: 9.08 min Scan# 986
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
146	100		
148	104.0	49.3	73.9#
111	37.1	34.3	51.5

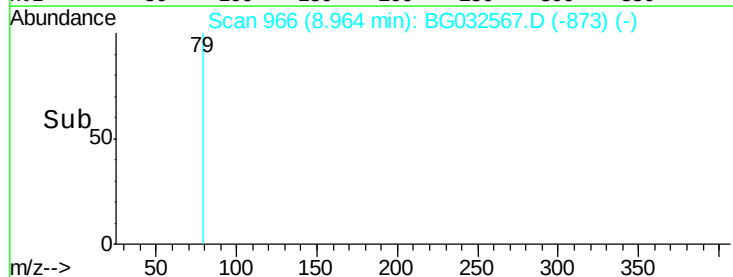
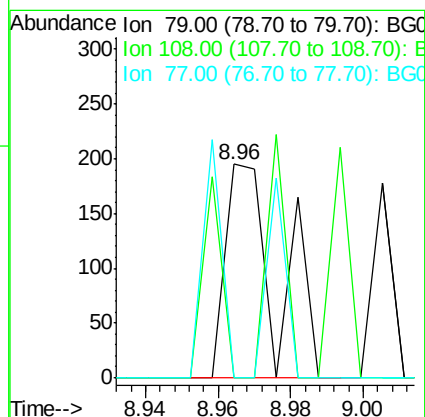
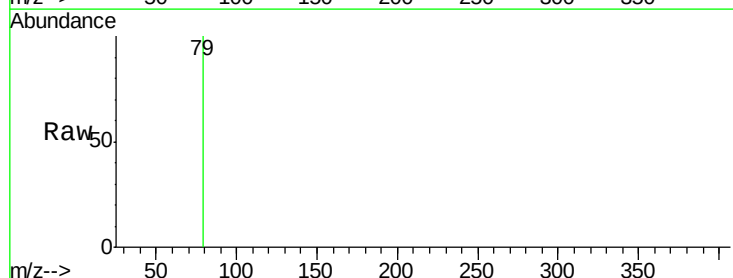
Manual Integrations
APPROVED

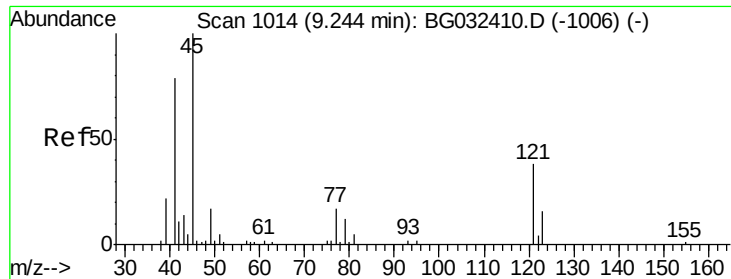
Sohil
2/7/2018 4:14:28 PM



#15
Benzyl Alcohol
Concen: 0.257 ng
RT: 8.96 min Scan# 966
Delta R.T. 0.02 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
79	100		
108	0.0	57.2	85.8#
77	0.0	46.1	69.1#





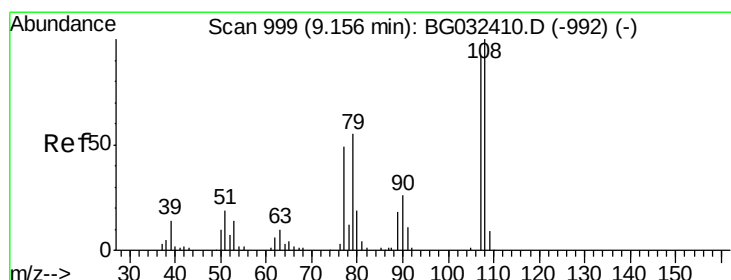
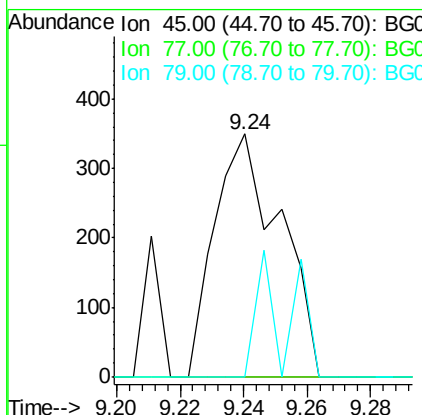
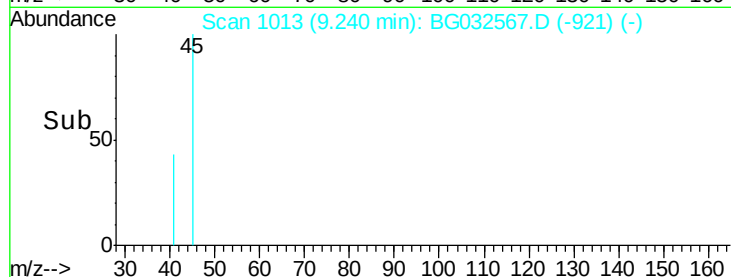
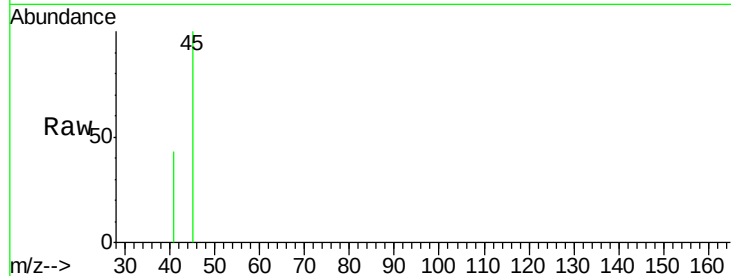
#16
2,2'-oxvbis(1-Chloropropane)
Concen: 0.799 ng
RT: 9.24 min Scan# 1013
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	45	Resp:	503
Ion	Ratio	Lower	Upper
45	100		
77	0.0	0.0	30.2
79	0.0	0.0	27.9

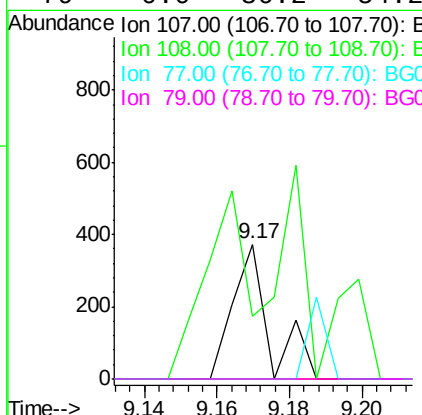
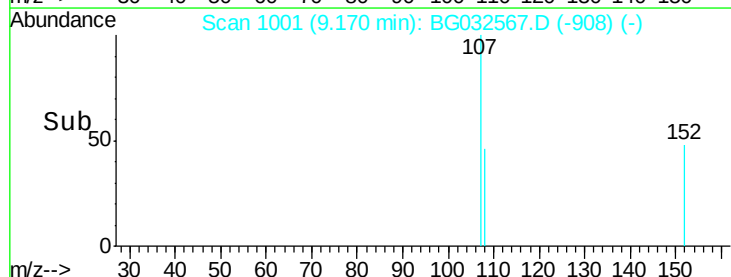
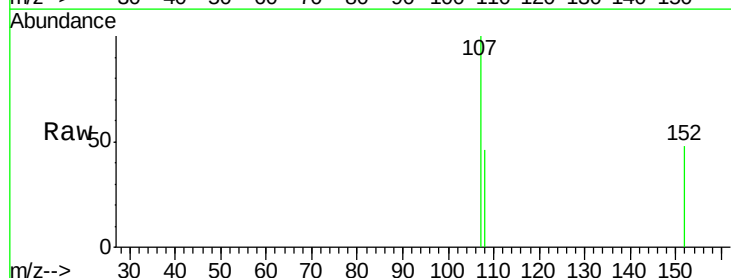
Manual Integrations
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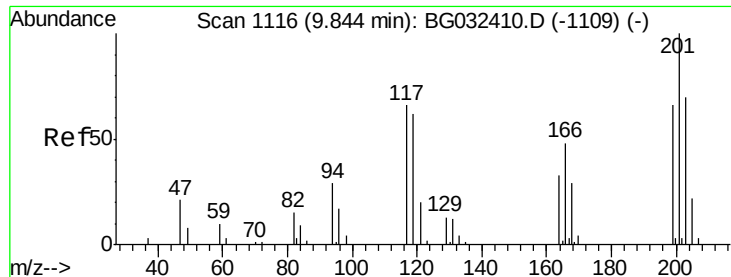
Sohil
2/7/2018 4:14:28 PM



#17
2-Methylphenol
Concen: 0.369 ng
RT: 9.17 min Scan# 1001
Delta R.T. 0.02 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion:	107	Resp:	261
Ion	Ratio	Lower	Upper
107	100		
108	46.4	83.9	125.9#
77	0.0	37.2	55.8#
79	0.0	36.2	54.2#





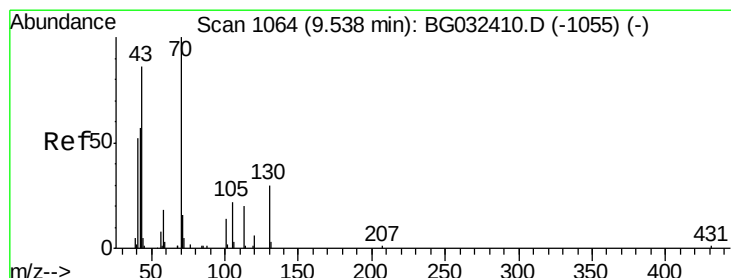
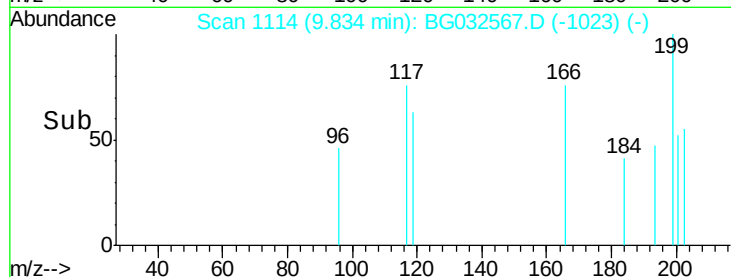
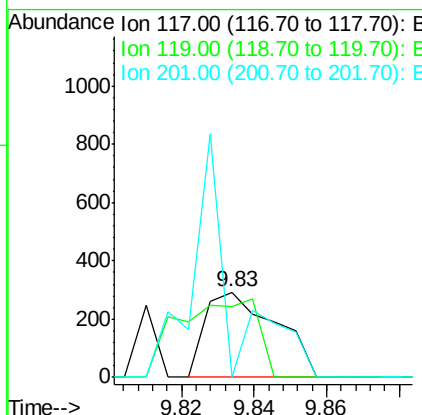
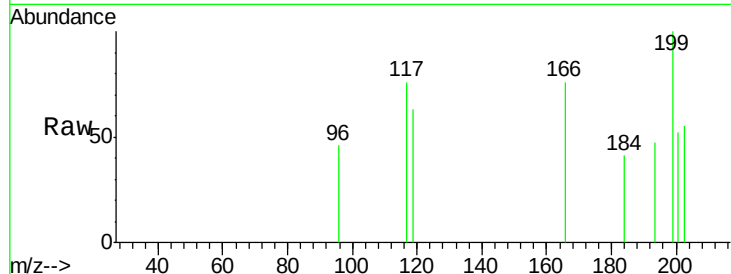
#18
Hexachloroethane
Concen: 1.062 ng
RT: 9.83 min Scan# 1114
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.9	76.7	115.1
201	0.0	95.7	143.5#

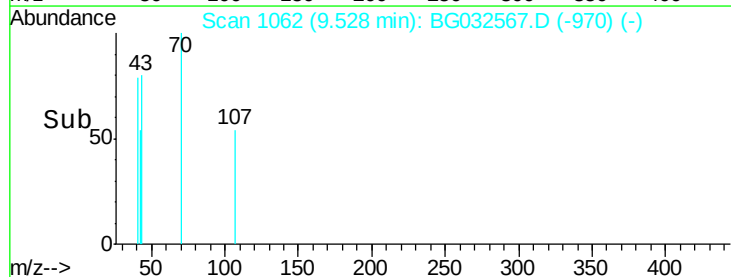
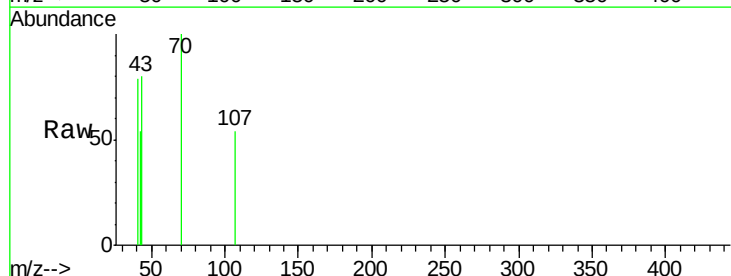
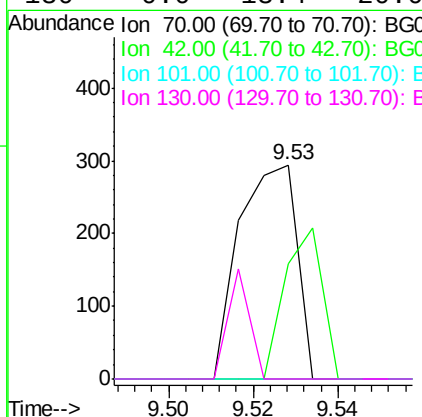
Manual Integrations
APPROVED

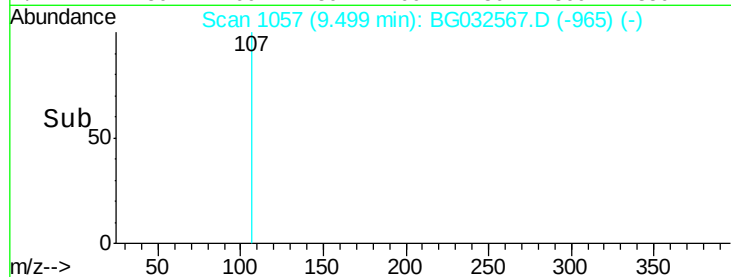
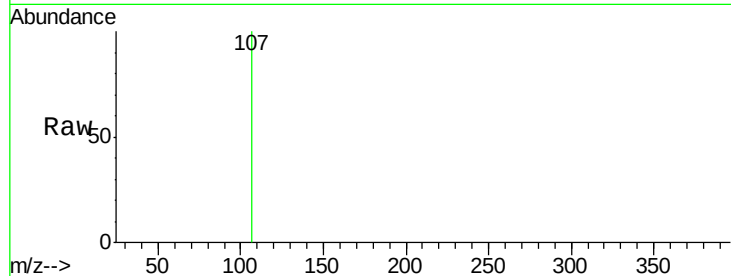
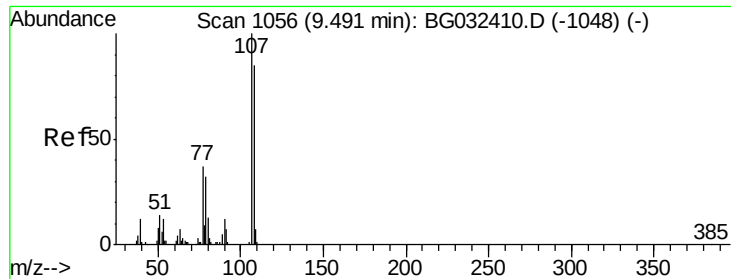
Sohil
2/7/2018 4:14:28 PM



#19
n-Nitroso-di-n-propylamine
Concen: 0.459 ng
RT: 9.53 min Scan# 1062
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
70	100		
42	53.7	49.1	73.7
101	0.0	8.5	12.7#
130	0.0	13.4	20.0#





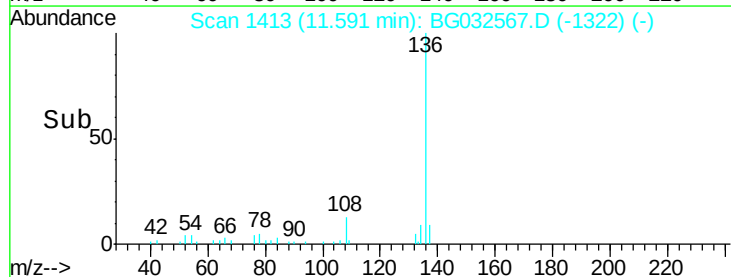
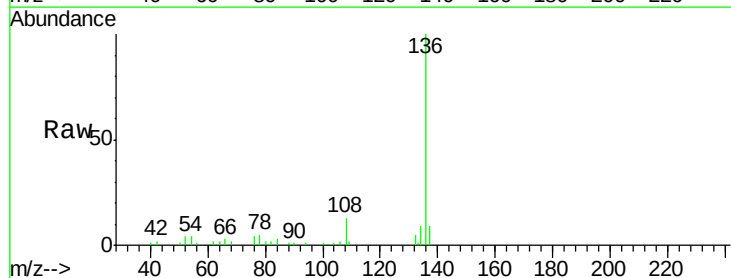
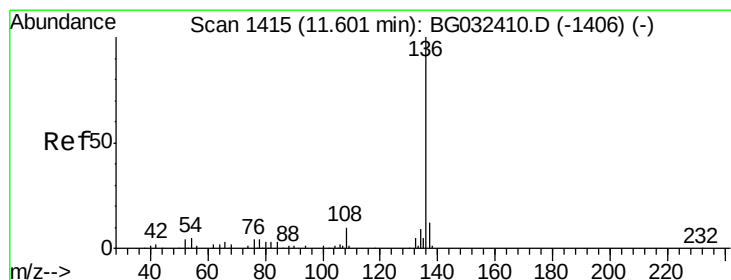
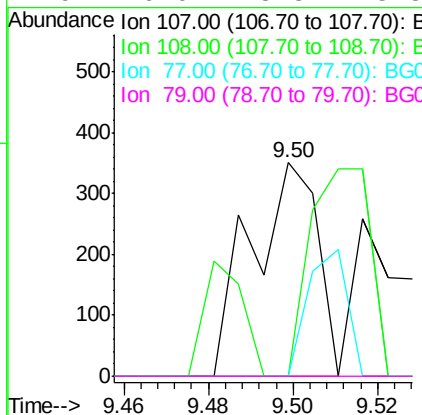
#20
3+4-Methylphenols
Concen: 0.385 ng
RT: 9.50 min Scan# 1057
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	0.0	61.6	101.6#	
77	0.0	13.9	53.9#	
79	0.0	8.8	48.8#	

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

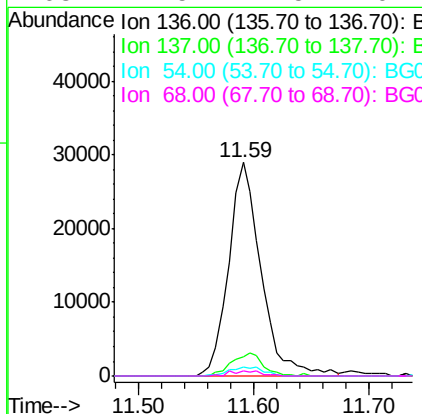
Manual Integrations
APPROVED

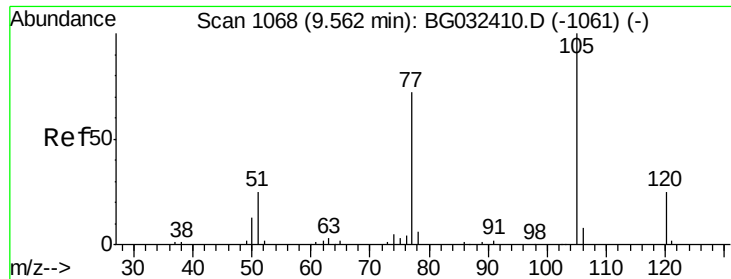
Sohil
2/7/2018 4:14:28 PM



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.59 min Scan# 1413
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
136	100			
137	8.7	9.2	13.8#	
54	4.1	10.3	15.5#	
68	2.5	4.5	6.7#	





#22

Acetophenone

Concen: 0.475 ng

RT: 9.55 min Scan# 1066

Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

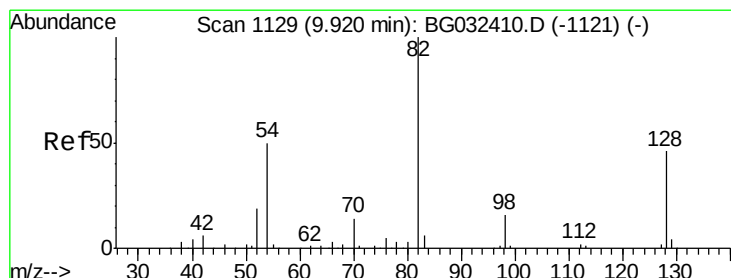
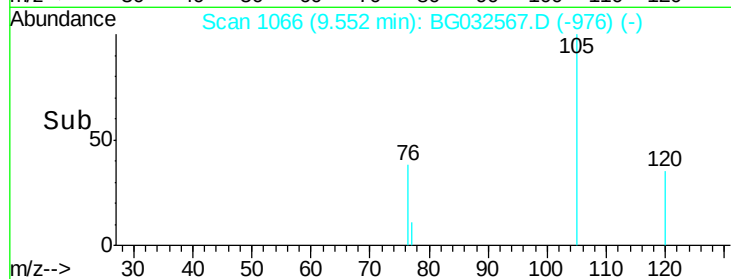
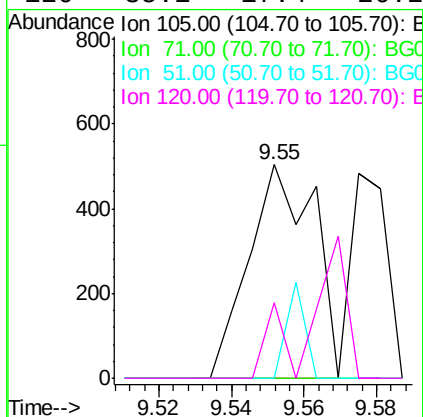
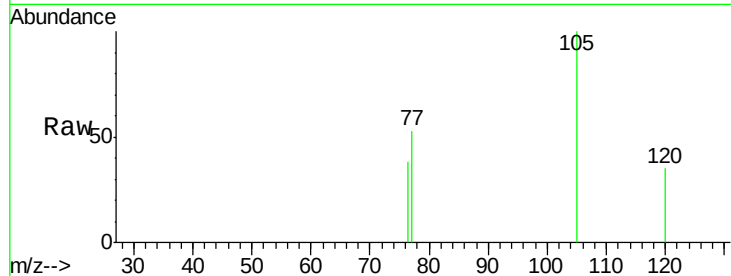
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	105	Resp:	628
Ion Ratio	Lower	Upper	
105	100		
71	0.0	3.0	4.4#
51	0.0	26.1	39.1#
120	35.1	17.4	26.2#

Manual Integrations
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2/7/2018 4:14:28 PM



#23

Nitrobenzene-d5

Concen: 59.623 ng

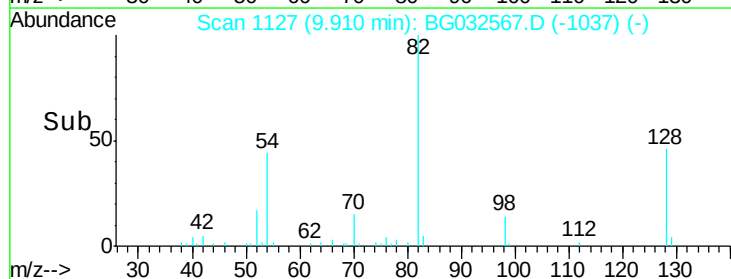
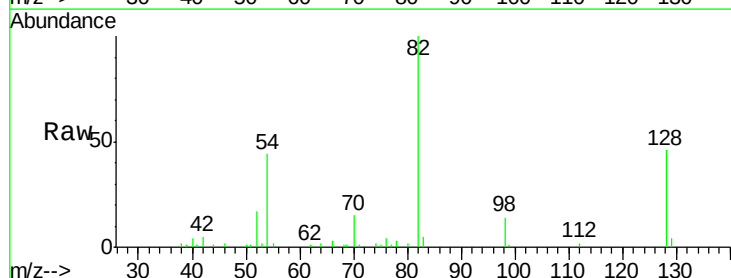
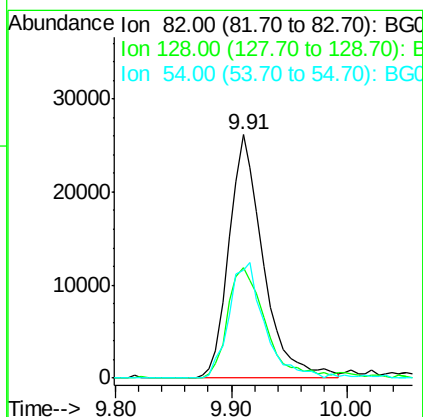
RT: 9.91 min Scan# 1127

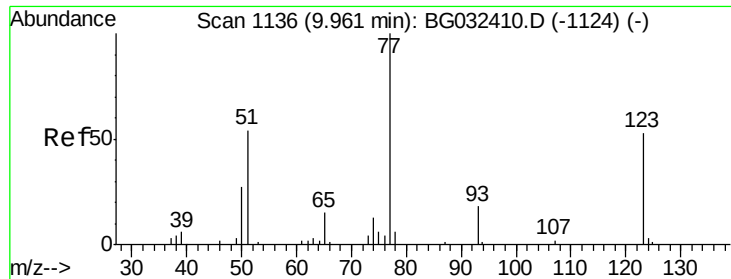
Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	82	Resp:	53823
Ion Ratio	Lower	Upper	
82	100		
128	45.6	29.7	44.5#
54	44.2	43.1	64.7





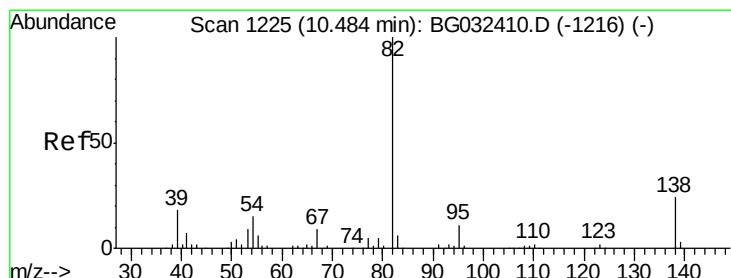
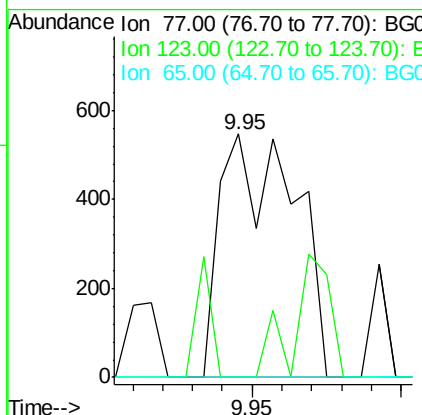
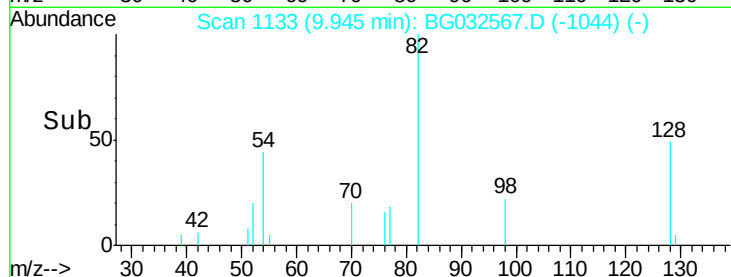
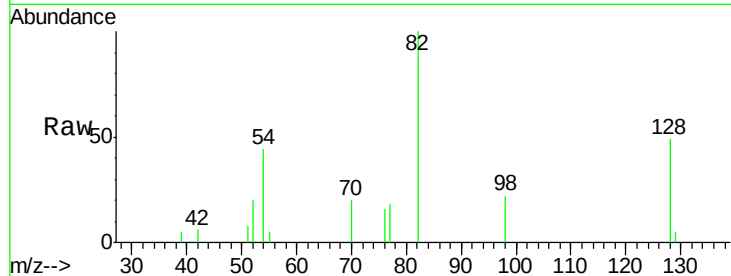
#24
Nitrobenzene
Concen: 1.077 ng/ml
RT: 9.95 min Scan# 1133
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	33.0	49.6#
65	0.0	13.0	19.6#

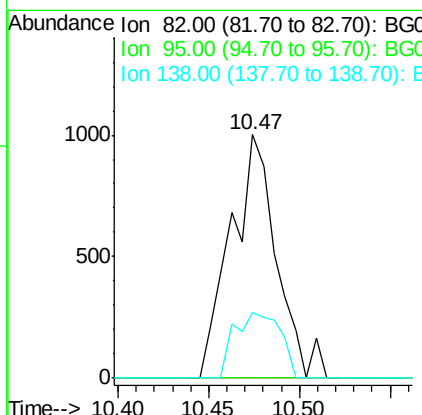
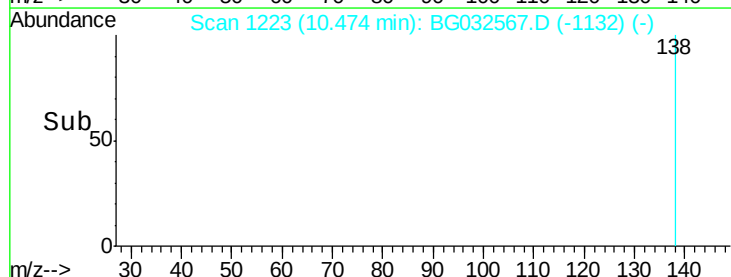
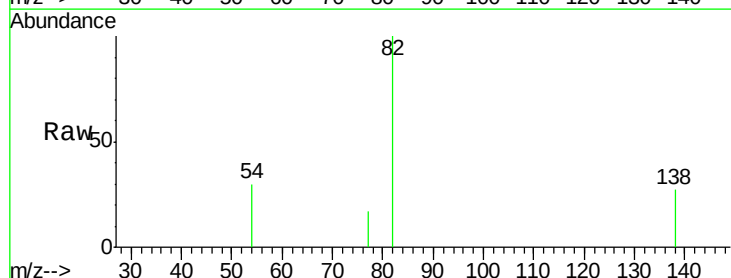
Manual Integrations
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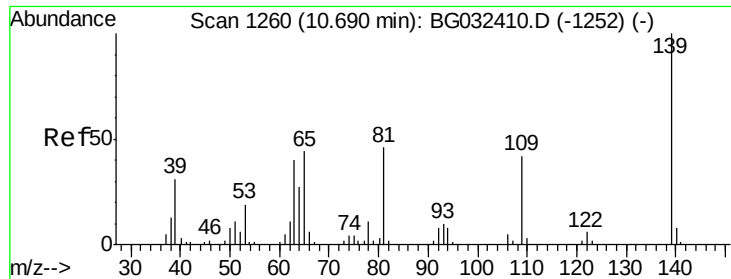
Sohil
2/7/2018 4:14:28 PM



#25
Isophorone
Concen: 1.139 ng/ml
RT: 10.47 min Scan# 1223
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	6.2	9.2#
138	26.9	12.1	18.1#





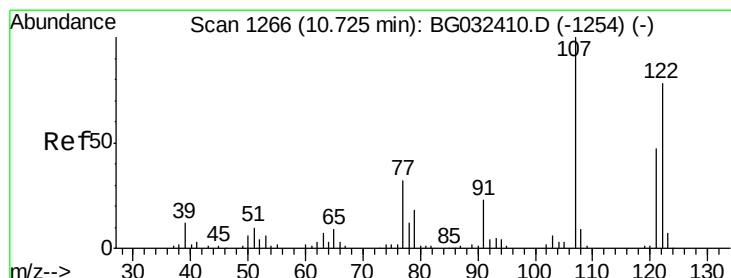
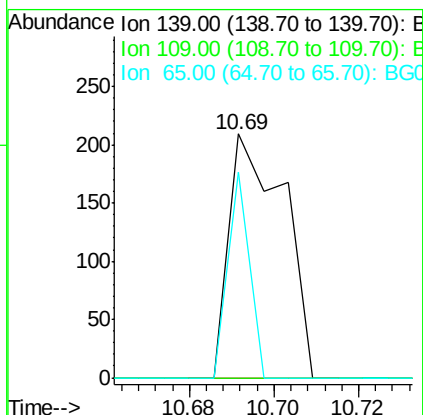
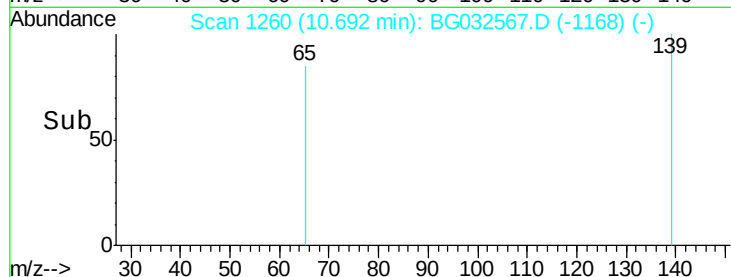
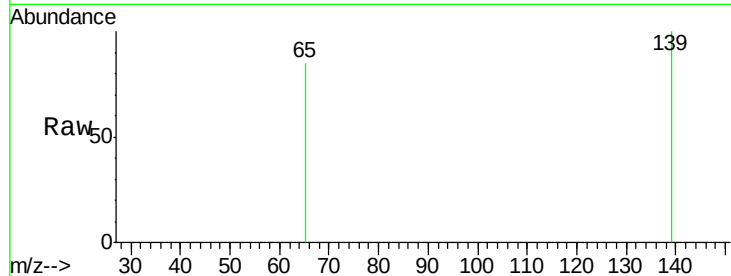
#26
2-Nitrophenol
Concen: 0.358 ng
RT: 10.69 min Scan# 1260
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	24.2	36.2#
65	84.7	47.4	71.0#

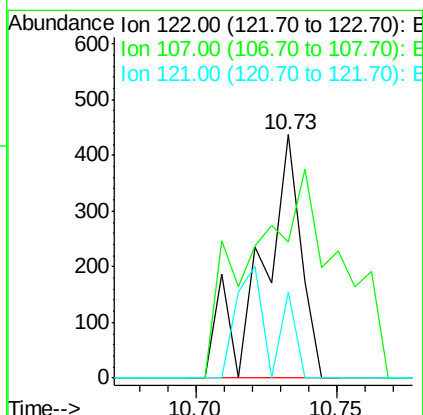
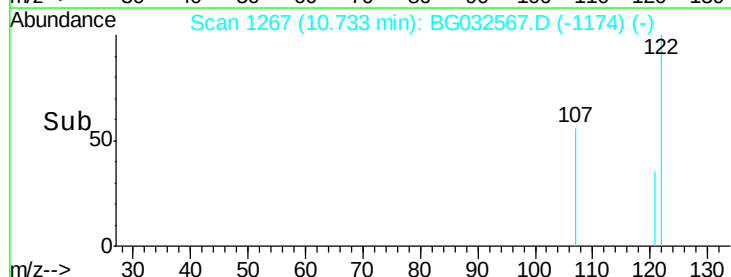
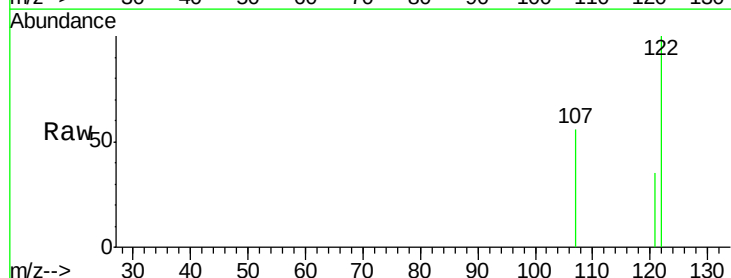
Manual Integrations
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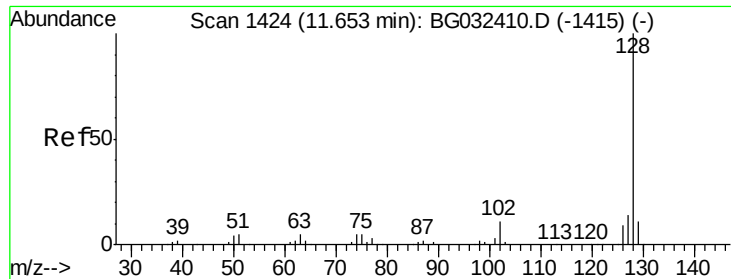
Sohil
2/7/2018 4:14:28 PM



#27
2,4-Dimethylphenol
Concen: 0.560 ng
RT: 10.73 min Scan# 1267
Delta R.T. 0.02 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
122	100		
107	56.1	100.2	150.2#
121	35.2	44.4	66.6#





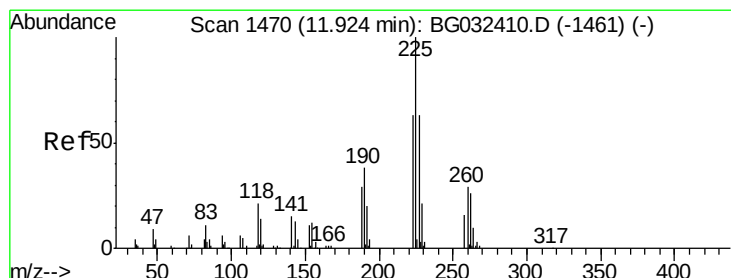
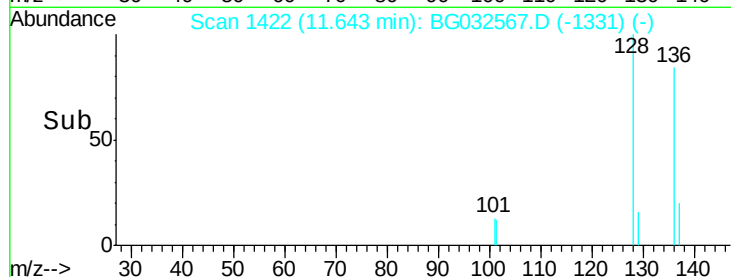
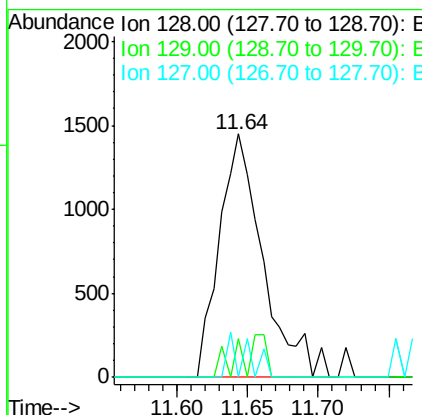
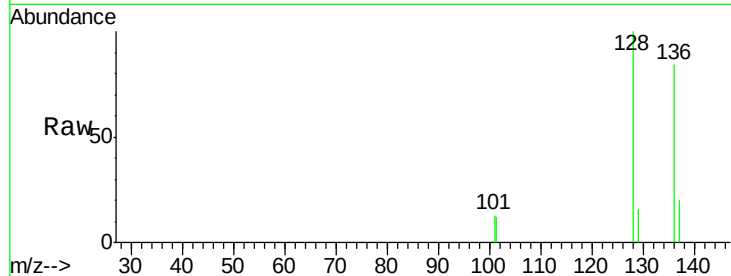
#31
Naphthalene
Concen: 1.131 ng
RT: 11.64 min Scan# 1422
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
128	100		
129	16.0	8.6	12.8#
127	0.0	11.6	17.4#

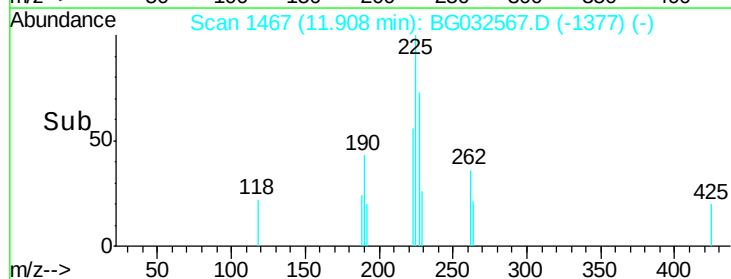
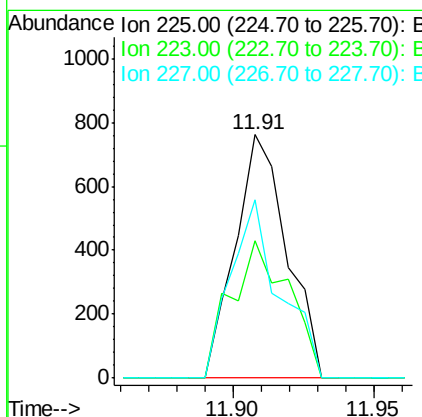
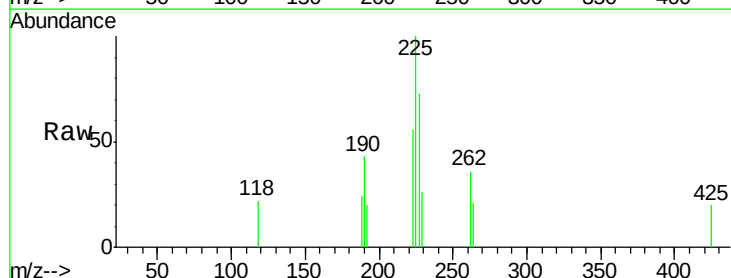
Manual Integrations
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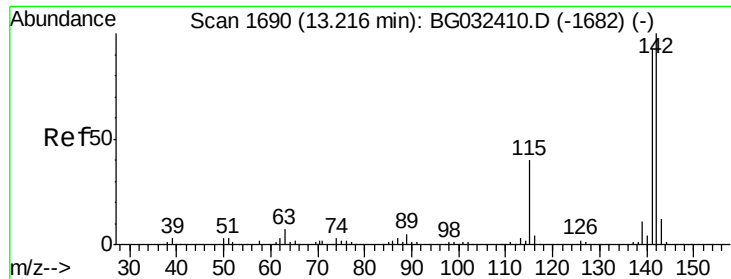
Sohil
2/7/2018 4:14:28 PM



#34
Hexachlorobutadiene
Concen: 0.927 ng
RT: 11.91 min Scan# 1467
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.4	49.7	74.5
227	73.2	48.1	72.1#





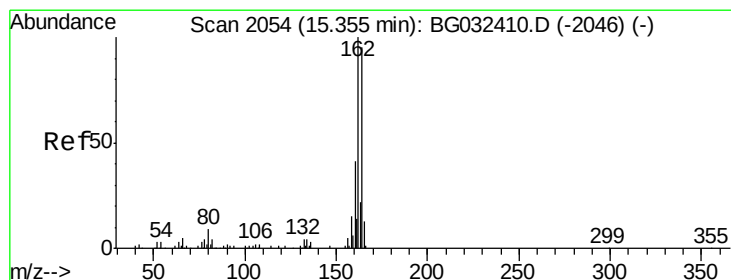
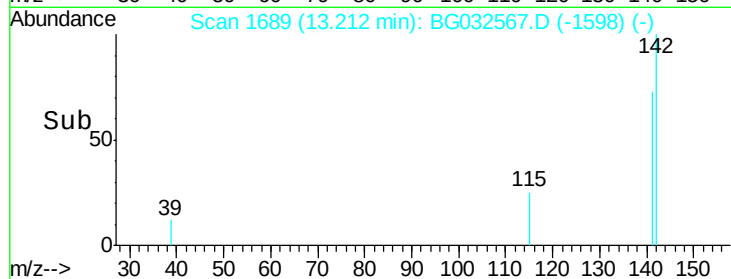
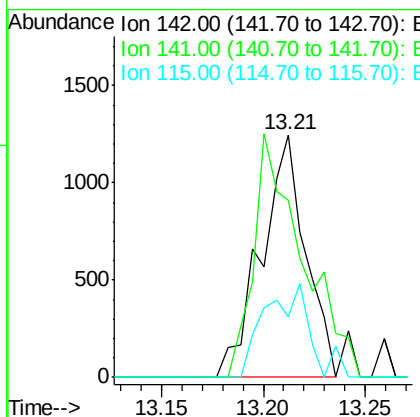
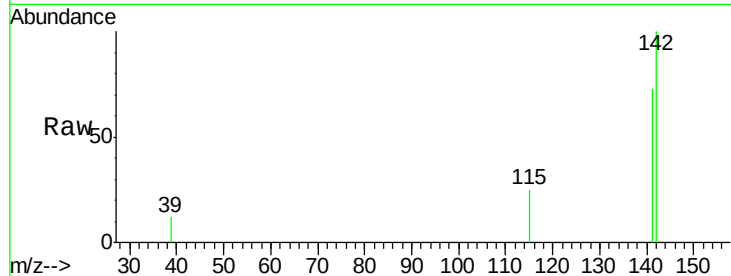
#37
2-Methylnaphthalene
Concen: 0.819 ng m
RT: 13.21 min Scan# 1689
Delta R.T. 0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
142	100		
141	72.9	67.1	100.7
115	25.0	30.7	46.1

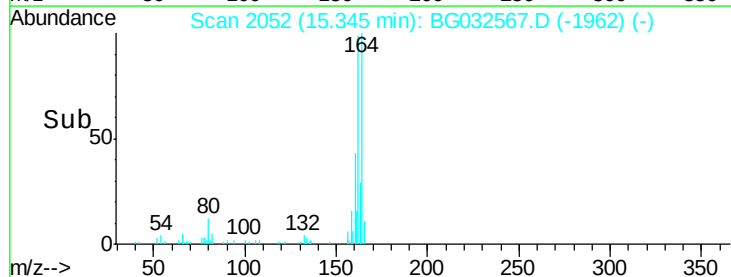
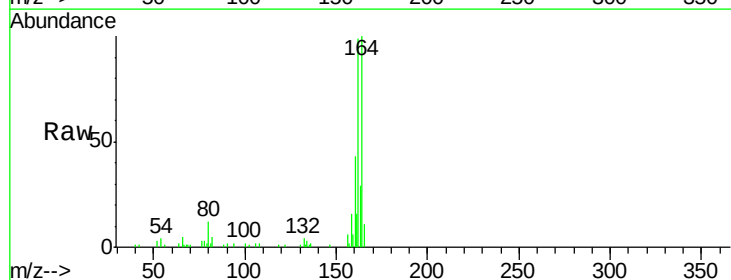
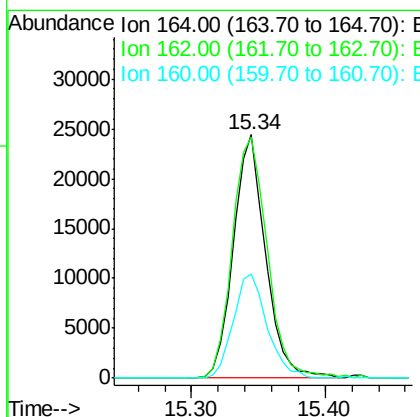
Manual Integrations
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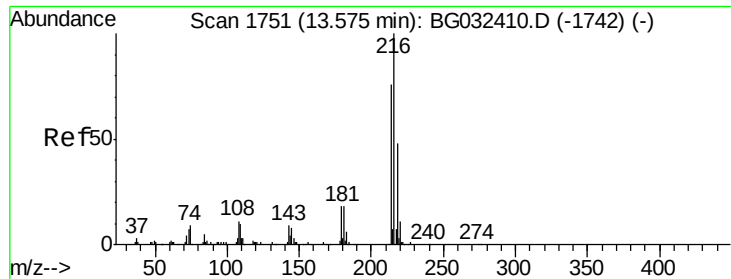
Sohil
2/7/2018 4:14:28 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.34 min Scan# 2052
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.0	78.8	118.2
160	42.8	35.4	53.0





#39

1,2,4,5-Tetrachlorobenzene

Concen: 0.973 ng

RT: 13.55 min Scan# 1747

Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

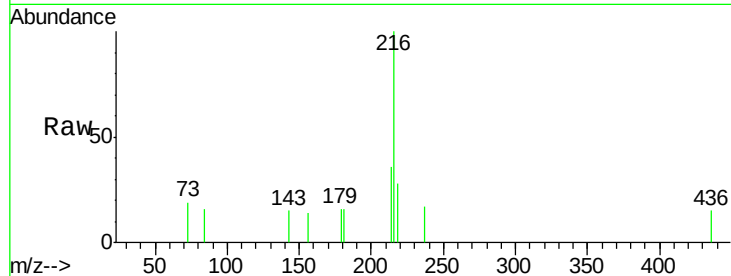
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
216	100		
214	84.6	63.0	94.4
179	3.3	17.0	25.6
108	0.0	12.8	19.2

Manual Integrations
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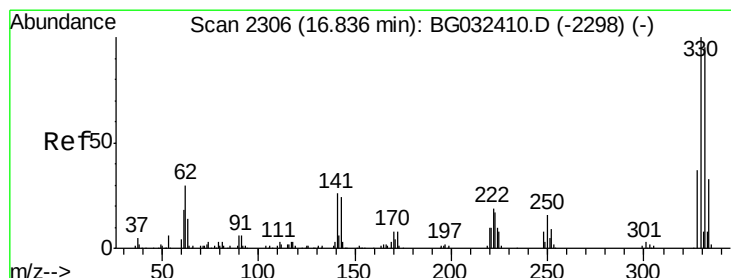
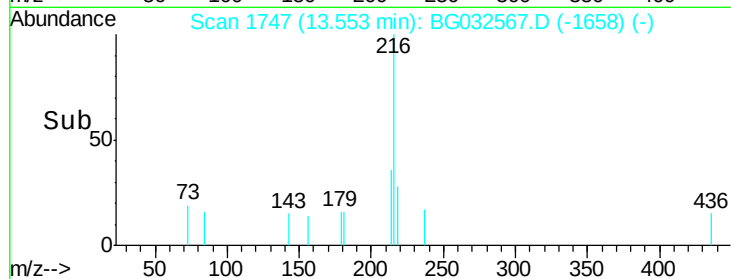
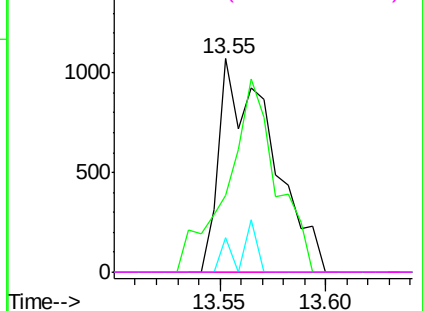


Abundance Ion 216.00 (215.70 to 216.70): E

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



#41

2,4,6-Tribromophenol

Concen: 119.758 ng

RT: 16.82 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BG032567.D

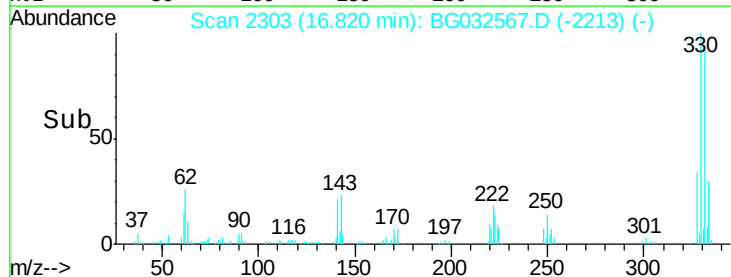
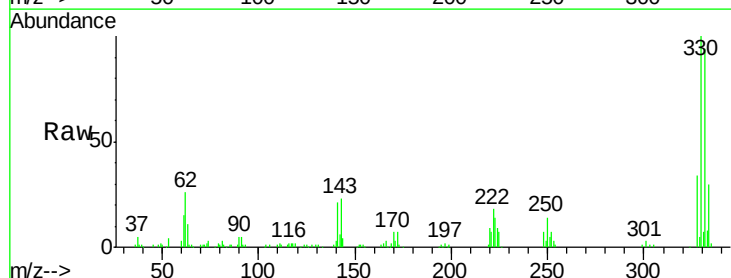
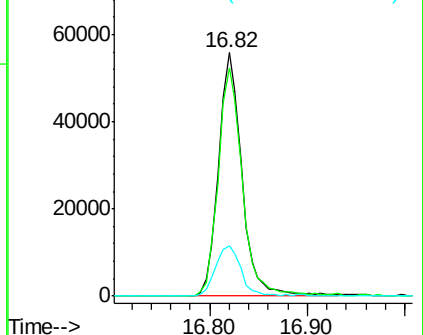
Acq: 6 Feb 2018 15:54

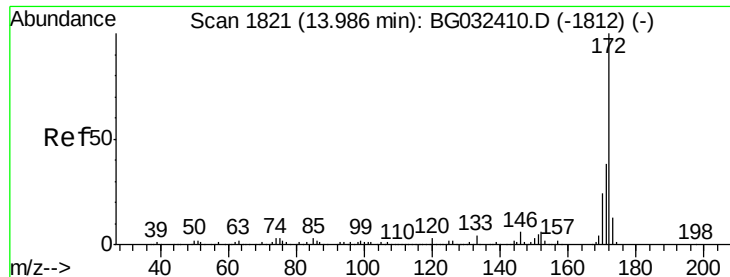
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.0	115.6
141	22.1	25.2	37.8

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





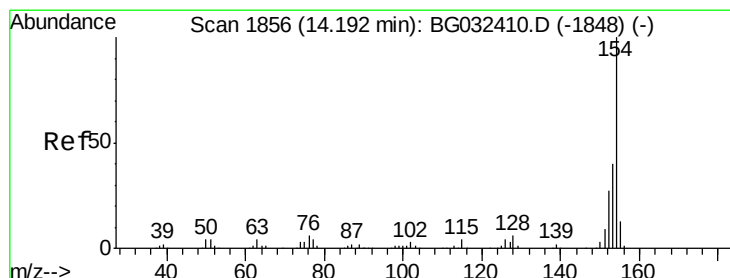
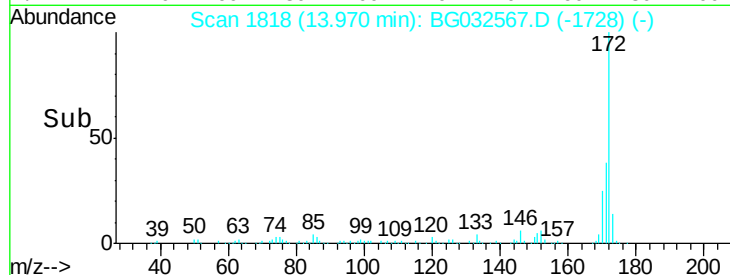
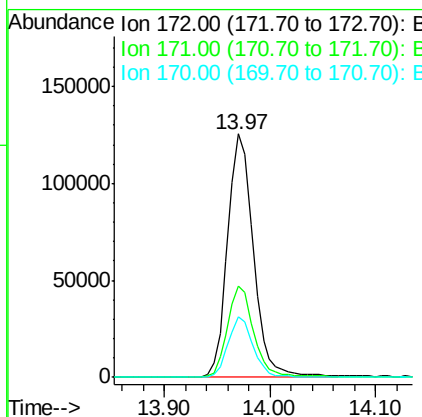
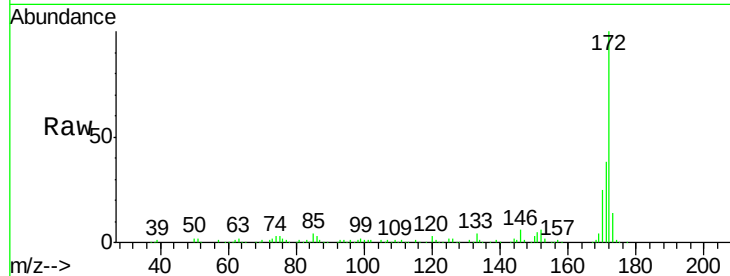
#44
2-Fluorobiphenyl
Concen: 62.047 ng
RT: 13.97 min Scan# 1818
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.6	30.0	45.0
170	25.1	19.5	29.3

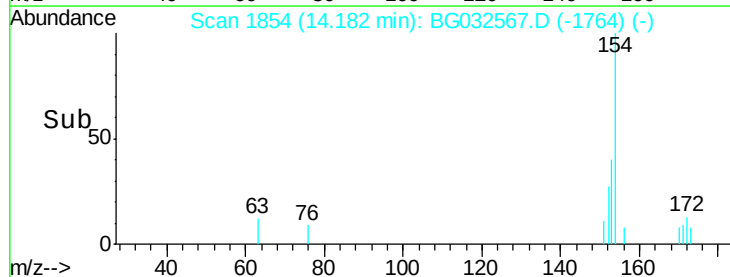
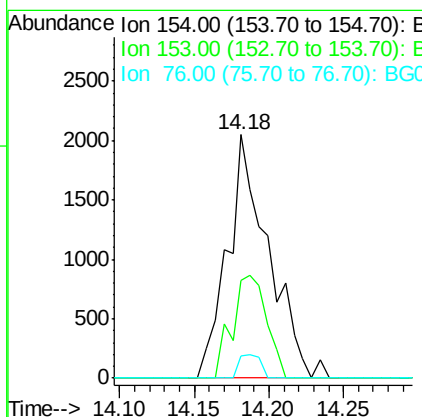
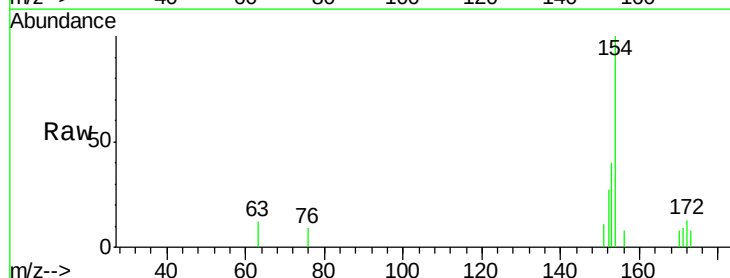
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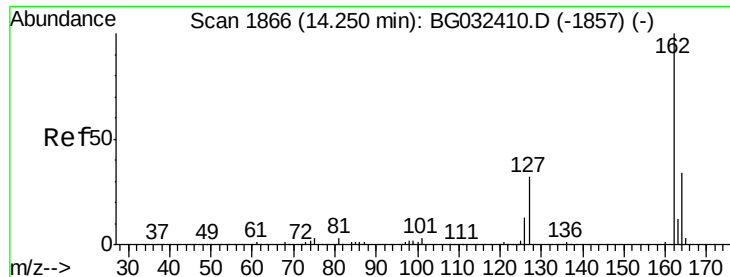
Sohil
2/7/2018 4:14:28 PM



#45
1,1'-Biphenyl
Concen: 1.134 ng
RT: 14.18 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.4	19.8	59.8
76	9.3	0.0	31.9





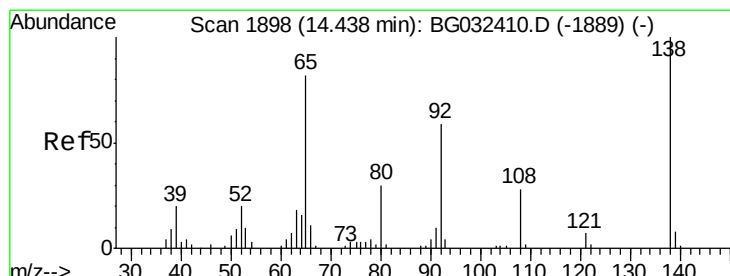
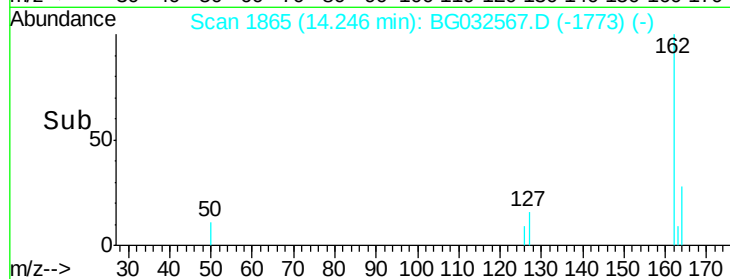
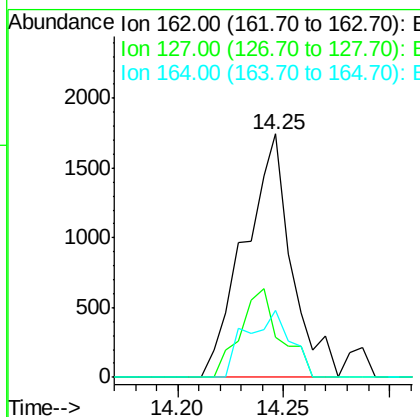
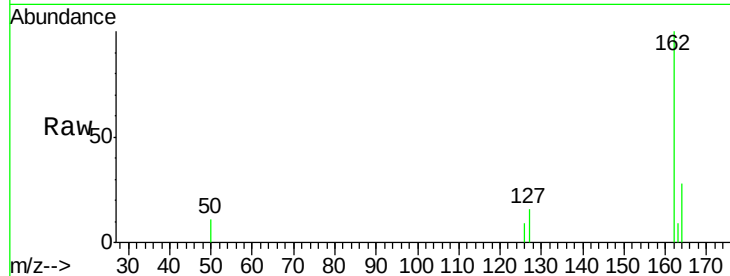
#46
 2-Chloronaphthalene
 Concen: 0.994 ng
 RT: 14.25 min Scan# 1865
 Delta R.T. 0.01 min
 Lab File: BG032567.D
 Acq: 6 Feb 2018 15:54

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
162	100		
127	16.3	30.7	46.1#
164	27.7	26.0	39.0

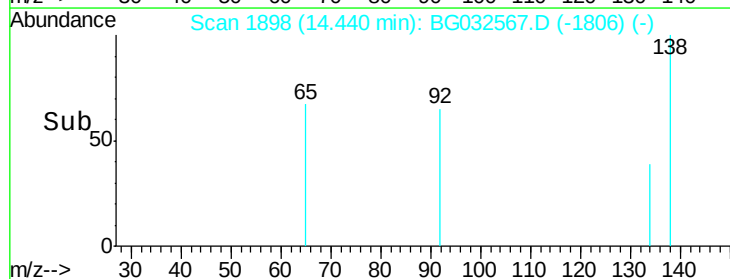
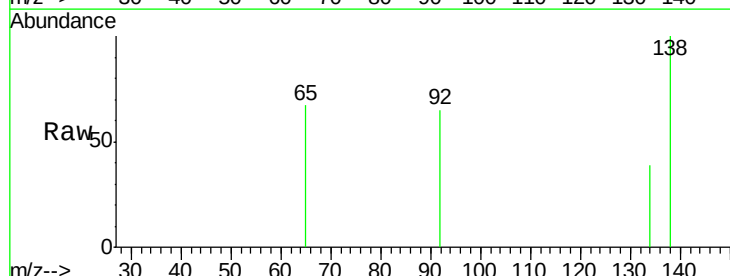
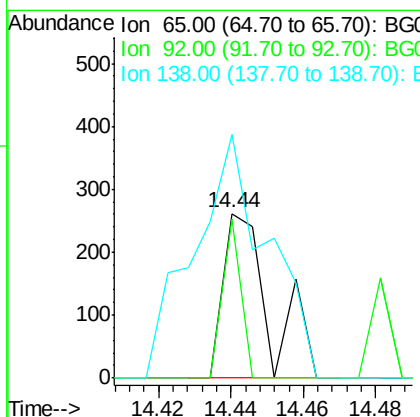
Manual Integrations
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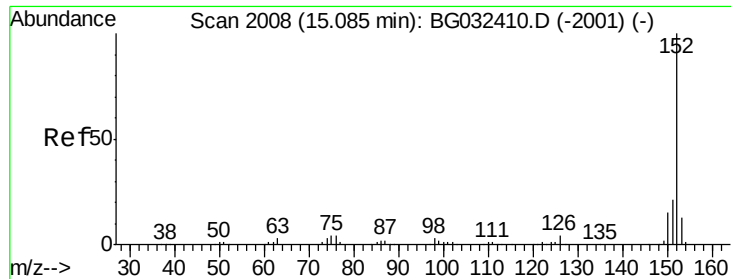
Sohil
 2/7/2018 4:14:28 PM



#47
 2-Nitroaniline
 Concen: 0.389 ng
 RT: 14.44 min Scan# 1898
 Delta R.T. 0.01 min
 Lab File: BG032567.D
 Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
65	100		
92	96.9	54.6	82.0#
138	148.3	72.9	109.3#





#48

Acenaphthylene

Concen: 1.119 ng

RT: 15.07 min Scan# 2005

Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

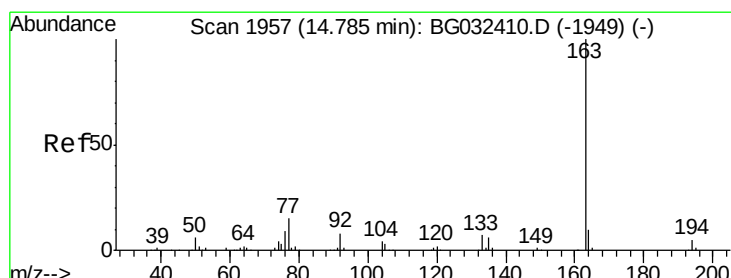
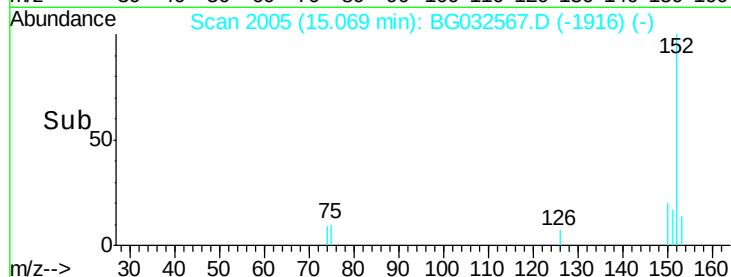
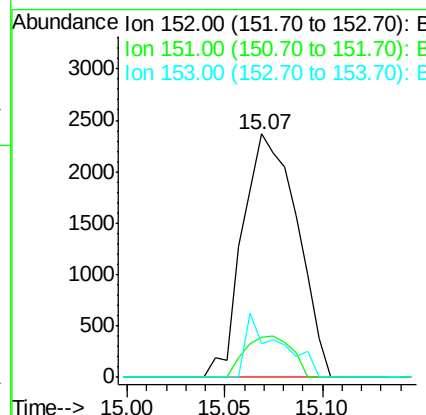
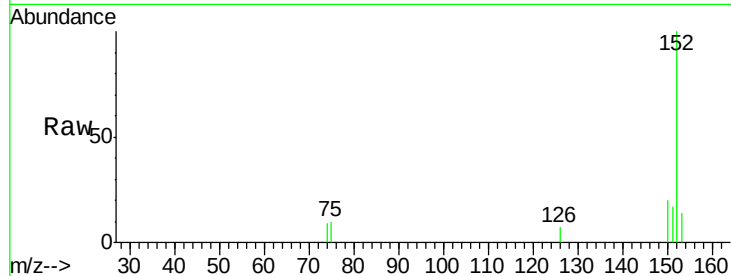
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:152 Resp: 4575
 Ion Ratio Lower Upper
 152 100
 151 16.7 17.2 25.8#
 153 13.7 10.2 15.4

Manual Integrations
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Sohil
 2/7/2018 4:14:28 PM



#49

Dimethylphthalate

Concen: 0.880 ng

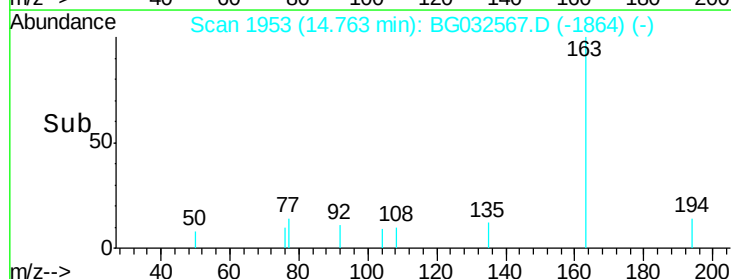
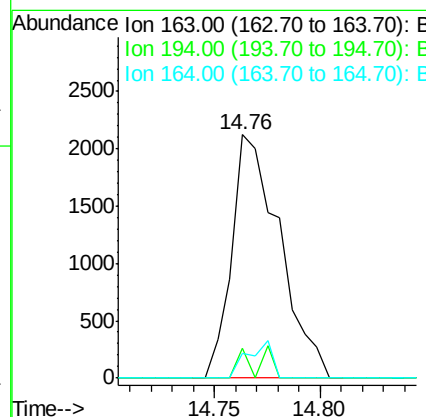
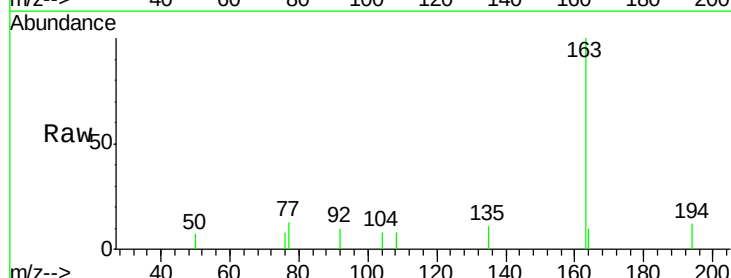
RT: 14.76 min Scan# 1953

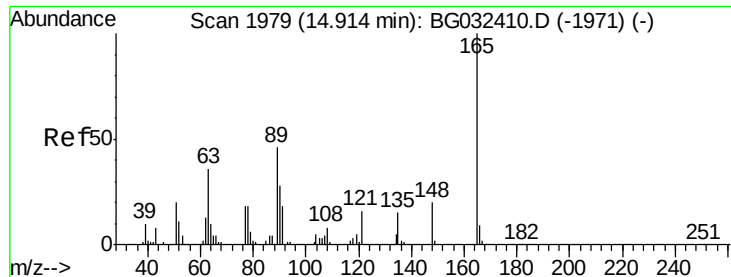
Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:163 Resp: 3313
 Ion Ratio Lower Upper
 163 100
 194 12.1 3.4 5.2#
 164 10.4 8.2 12.4





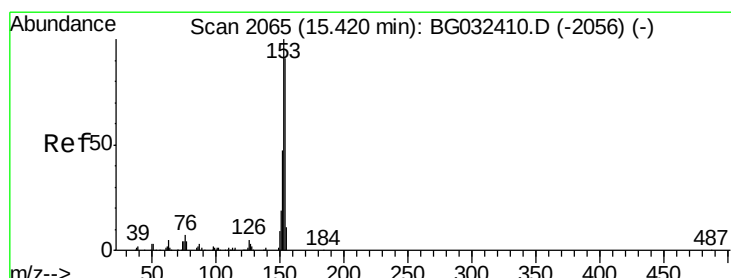
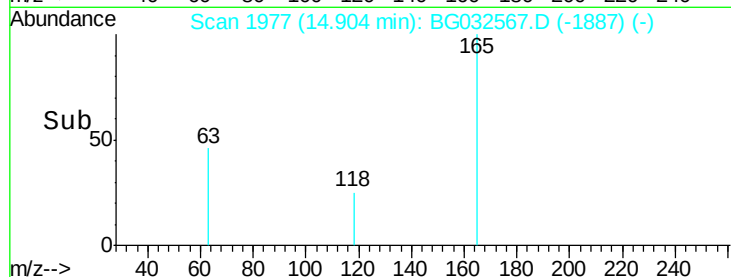
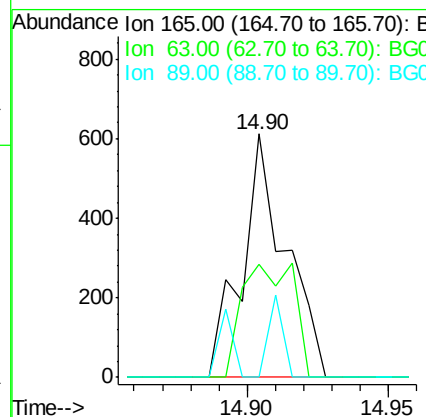
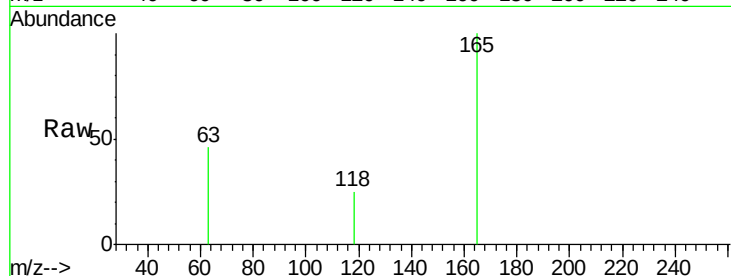
#50
2,6-Dinitrotoluene
Concen: 0.831 ng
RT: 14.90 min Scan# 1977
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
165	100		
63	46.2	52.7	79.1#
89	0.0	49.2	73.8#

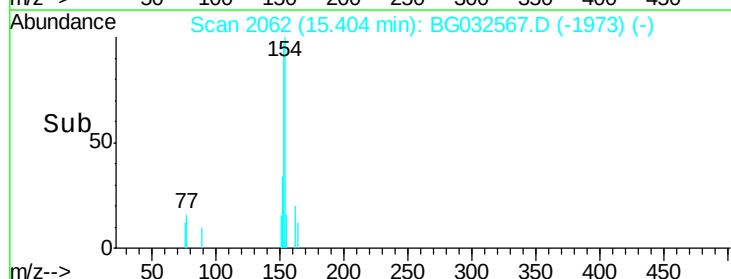
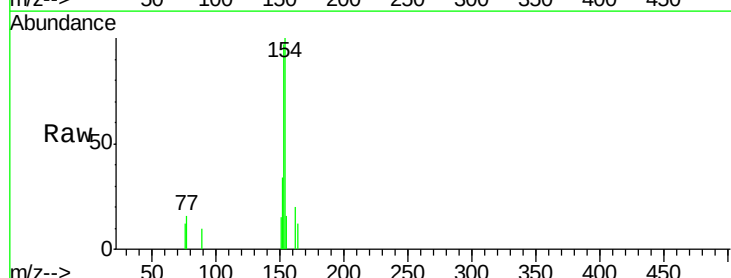
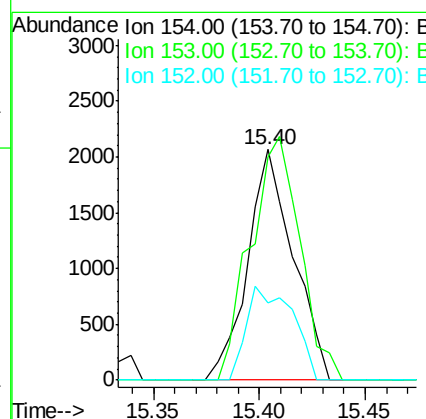
Manual Integrations
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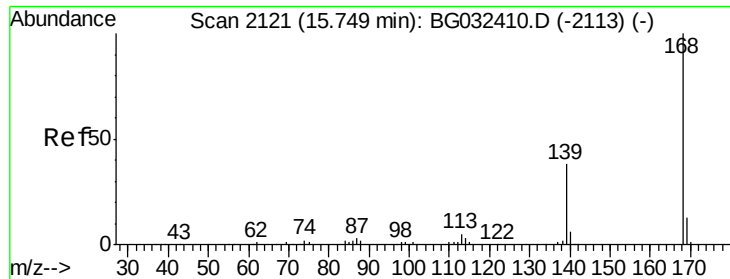
Sohil
2/7/2018 4:14:28 PM



#51
Acenaphthene
Concen: 1.093 ng
RT: 15.40 min Scan# 2062
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
154	100		
153	96.5	90.4	135.6
152	33.7	41.6	62.4#





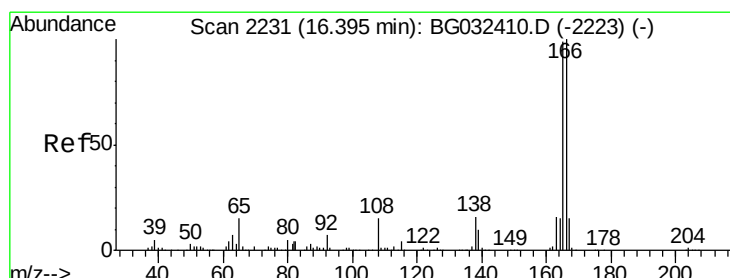
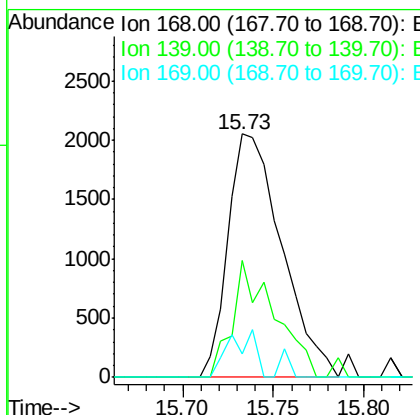
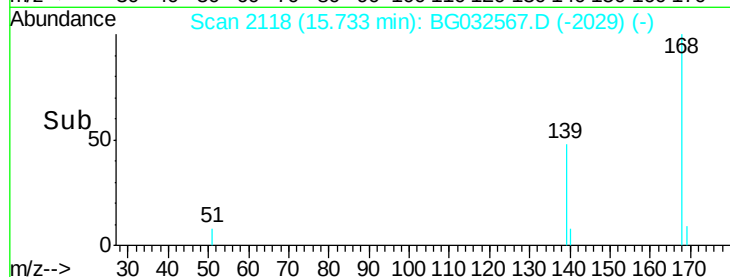
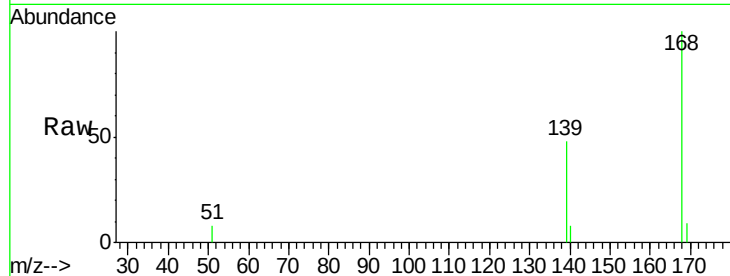
#54
Dibenzenofuran
Concen: 1.007 ng
RT: 15.73 min Scan# 2118
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
168	100		
139	47.9	28.6	43.0#
169	9.4	11.2	16.8#

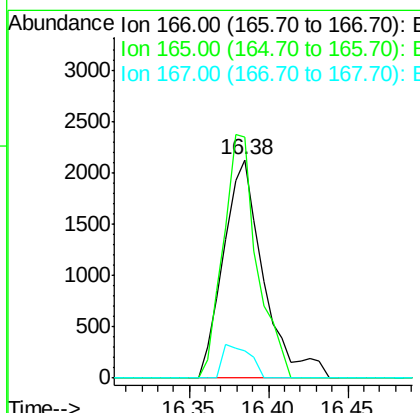
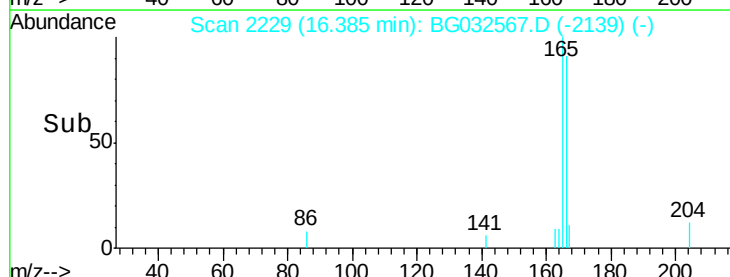
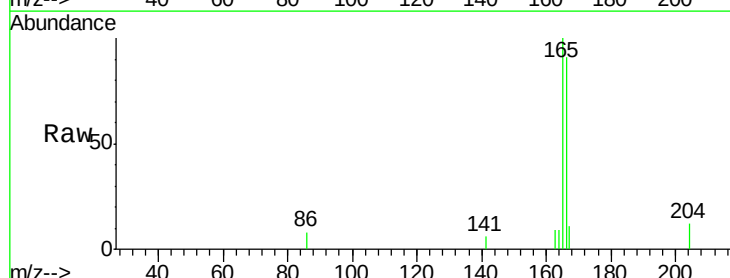
Manual Integrations
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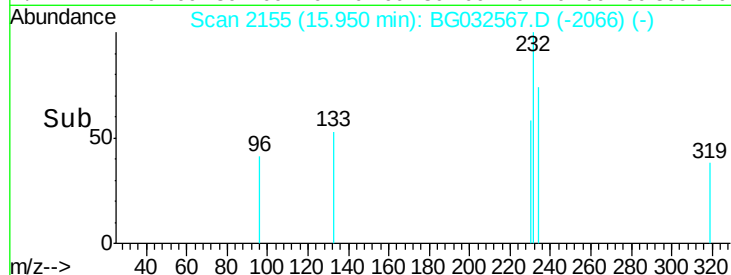
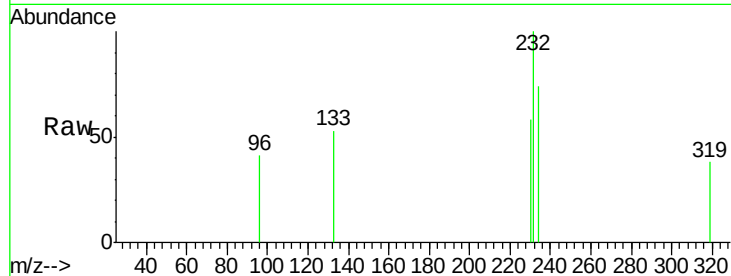
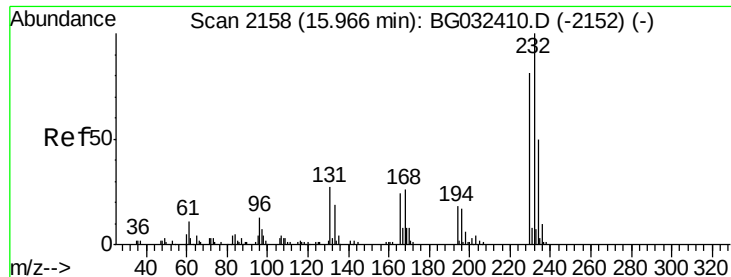
Sohil
2/7/2018 4:14:28 PM



#57
Fluorene
Concen: 1.066 ng
RT: 16.38 min Scan# 2229
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
166	100		
165	110.4	80.6	121.0
167	12.3	10.4	15.6





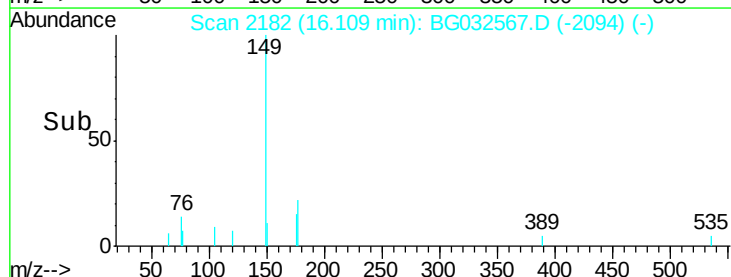
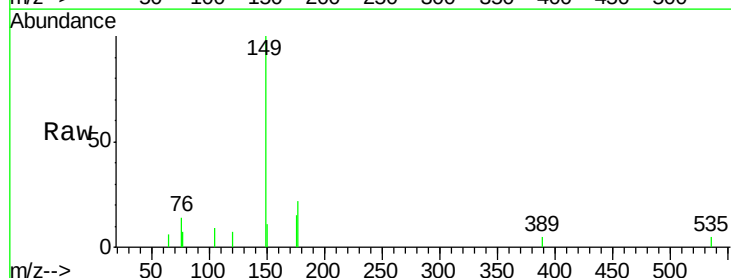
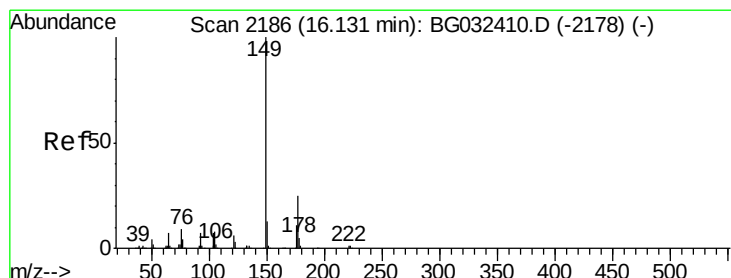
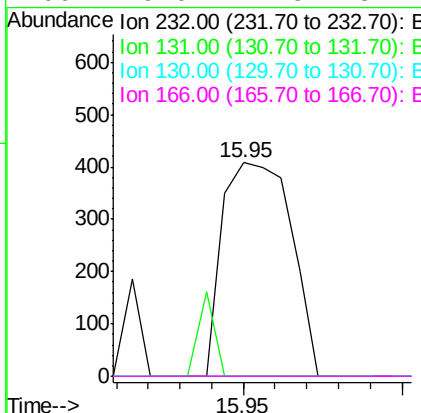
#58
2,3,4,6-Tetrachlorophenol
Concen: 0.513 ng
RT: 15.95 min Scan# 2155
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
232	100		
131	9.3	33.5	50.3#
130	0.0	2.2	3.2#
166	0.0	24.8	37.2#

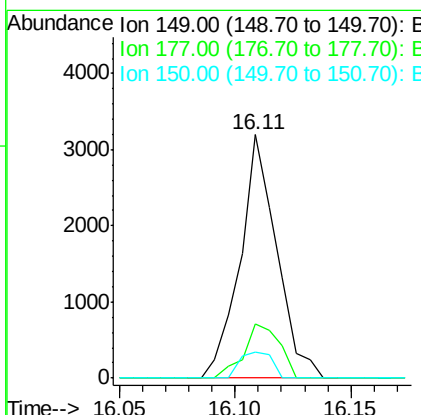
Manual Integrations
APPROVED

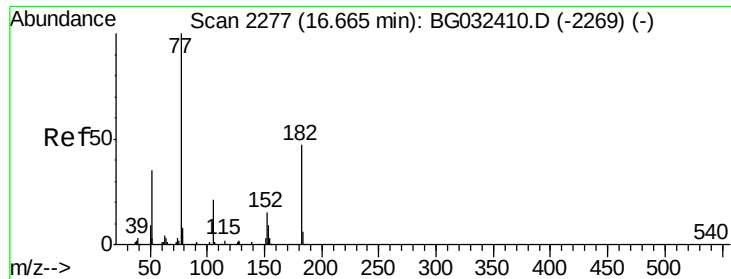
Sohil
2/7/2018 4:14:28 PM



#59
Diethylphthalate
Concen: 0.964 ng
RT: 16.11 min Scan# 2182
Delta R.T. -0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.5	27.7
150	10.7	10.2	15.2





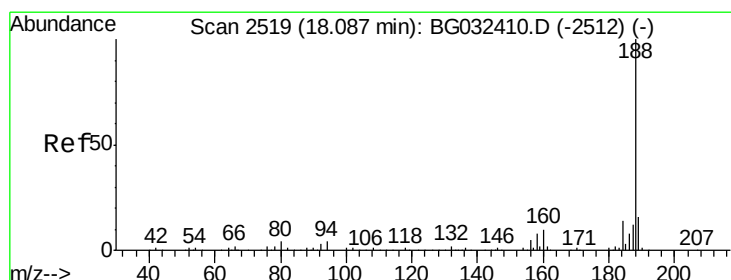
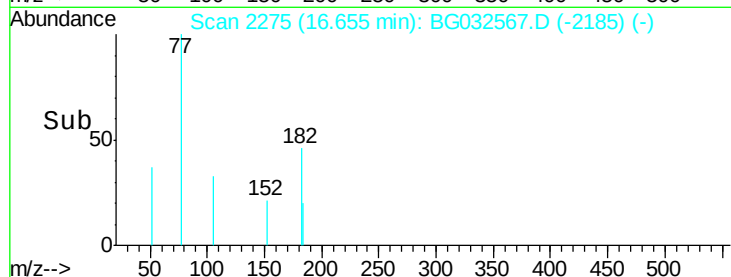
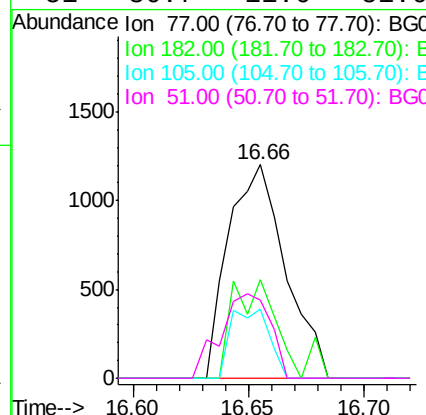
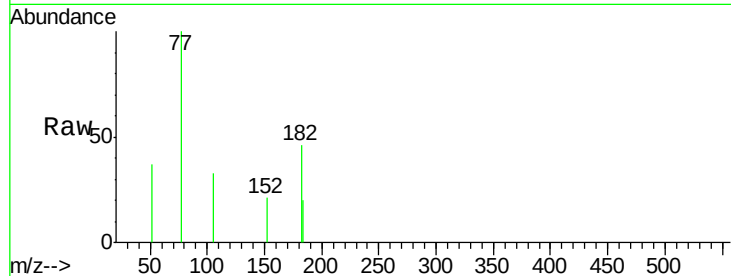
#62
Azobenzene
Concen: 0.941 ng
RT: 16.66 min Scan# 2275
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ion	Ratio	Lower	Upper
77	100			
182	45.9	7.4	47.4	
105	32.7	0.3	40.3	
51	36.7	11.6	51.6	

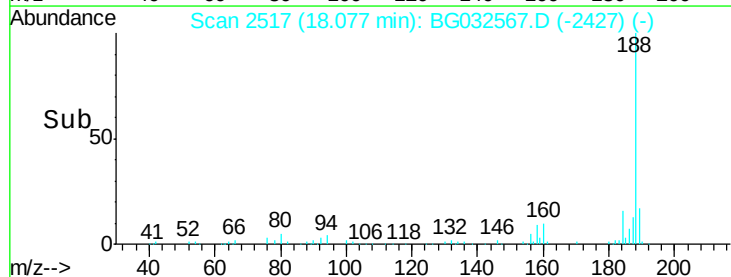
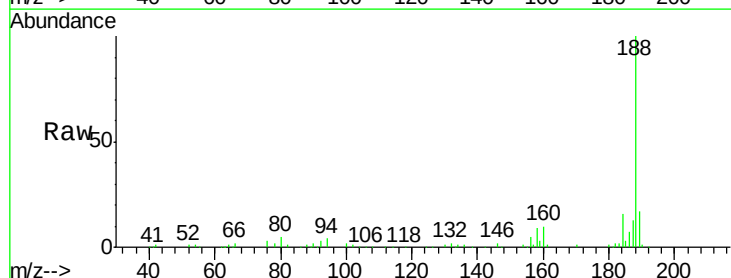
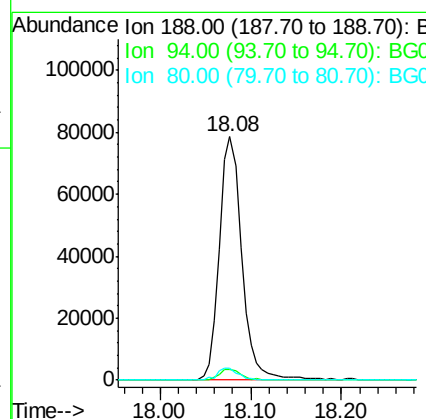
Manual Integrations
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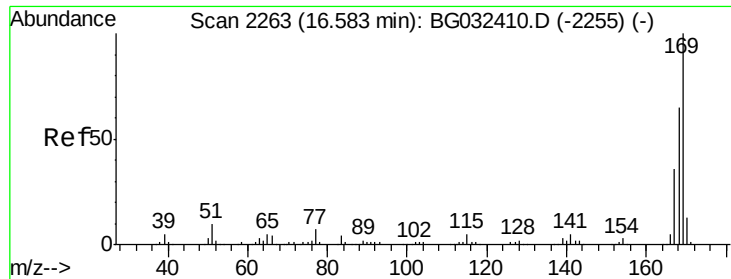
Sohil
2/7/2018 4:14:28 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 18.08 min Scan# 2517
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	4.2	6.9	10.3#	
80	4.9	7.7	11.5#	





#65

n-Nitrosodiphenylamine

Concen: 0.791 ng

RT: 16.57 min Scan# 2261

Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

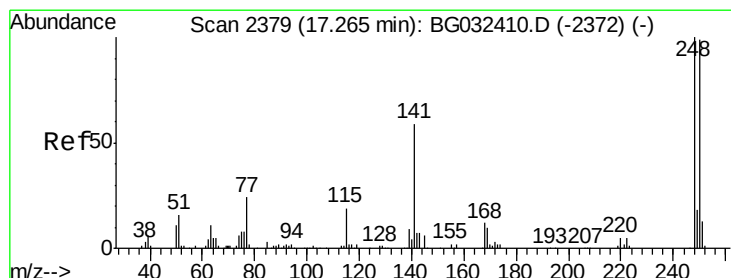
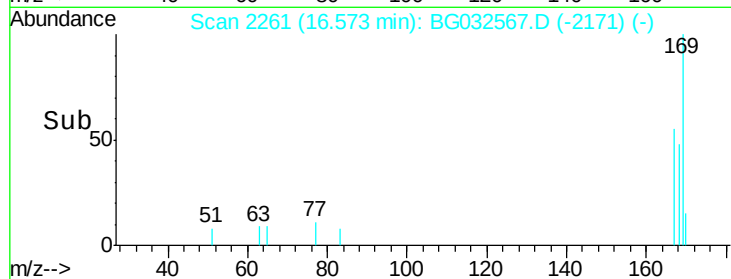
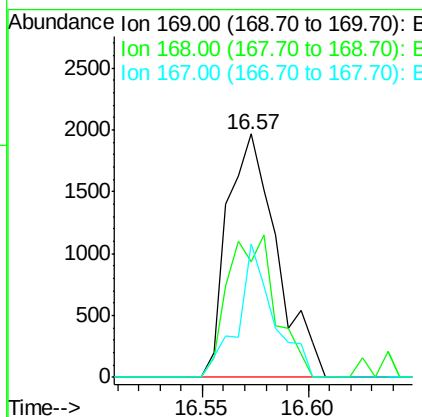
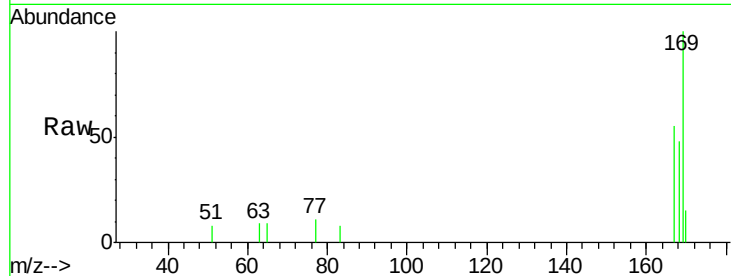
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	169	Resp:	3195
Ion Ratio	Lower	Upper	
169	100		
168	47.7	55.7	83.5#
167	54.8	30.1	45.1#

Manual Integrations
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#66

4-Bromophenyl-phenylether

Concen: 0.959 ng

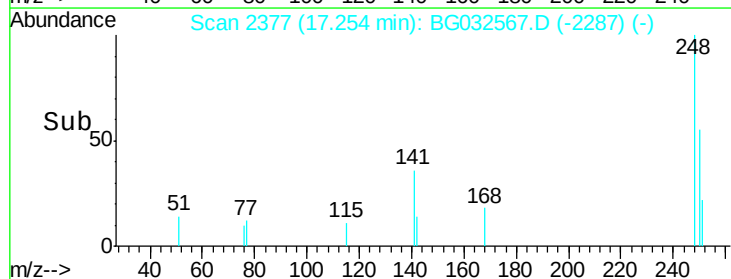
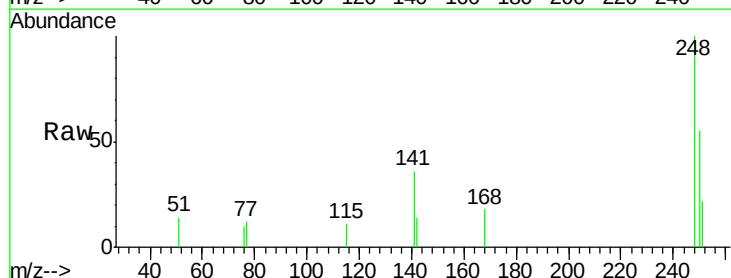
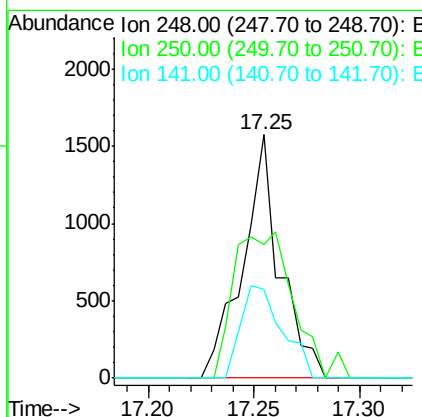
RT: 17.25 min Scan# 2377

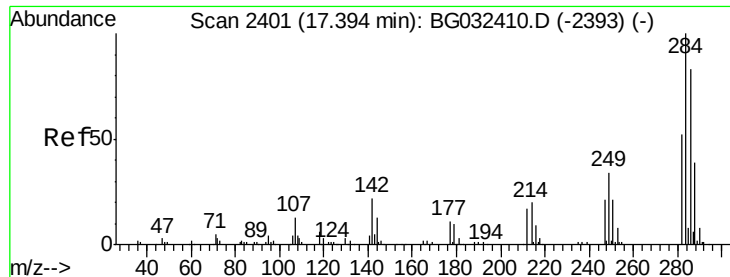
Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	248	Resp:	1923
Ion Ratio	Lower	Upper	
248	100		
250	55.1	77.1	115.7#
141	36.5	50.8	76.2#





#67

Hexachlorobenzene

Concen: 1.107 ng

RT: 17.38 min Scan# 2398

Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

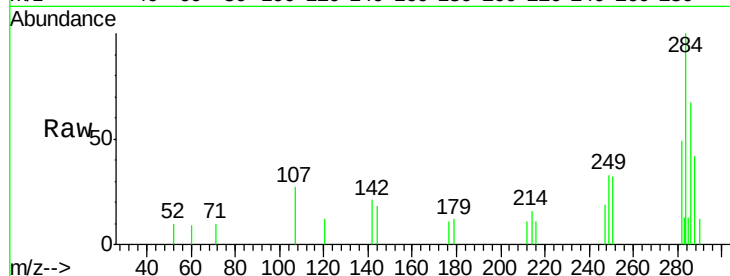
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

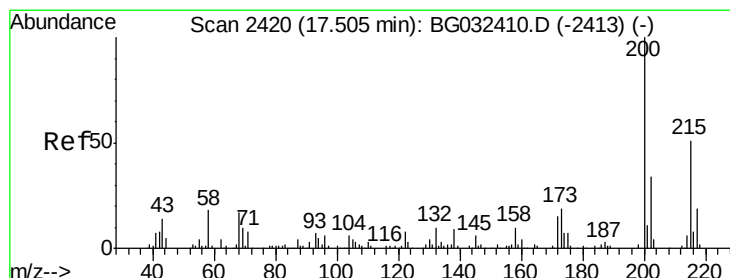
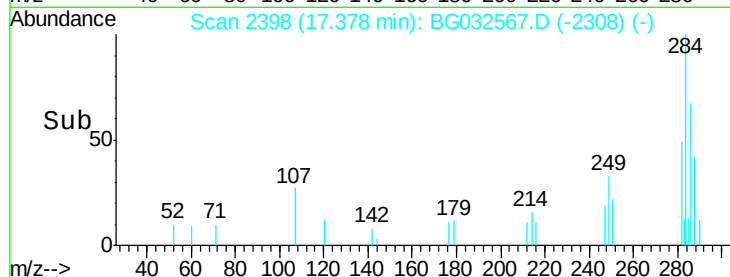
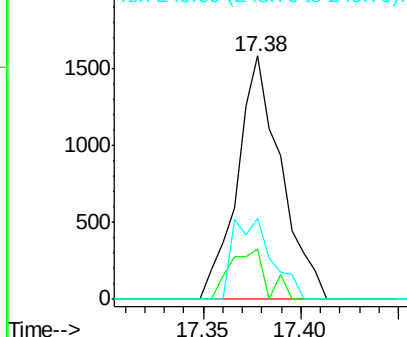
Tot Ion:	284	Resp:	2458
Ion Ratio	Lower	Upper	
284	100		
142	20.9	26.8	40.2#
249	33.3	26.3	39.5

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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 1.102 ng

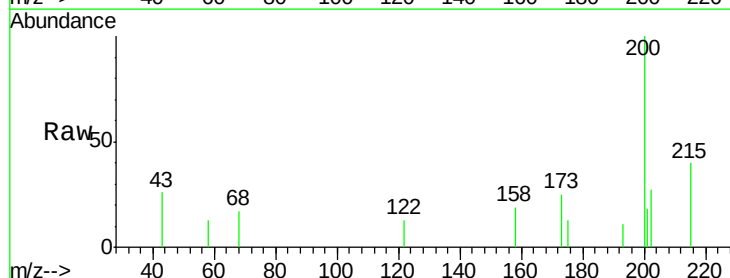
RT: 17.50 min Scan# 2418

Delta R.T. 0.00 min

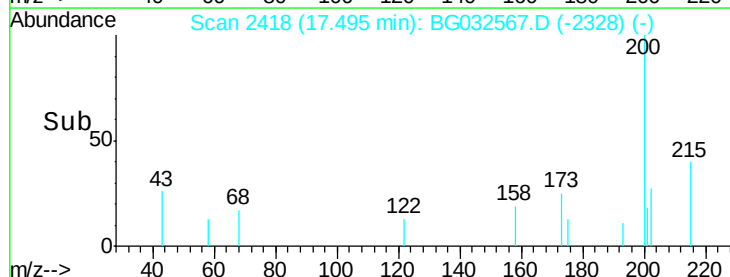
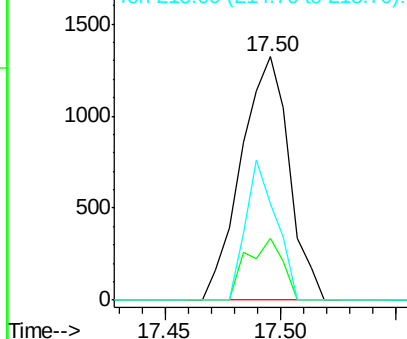
Lab File: BG032567.D

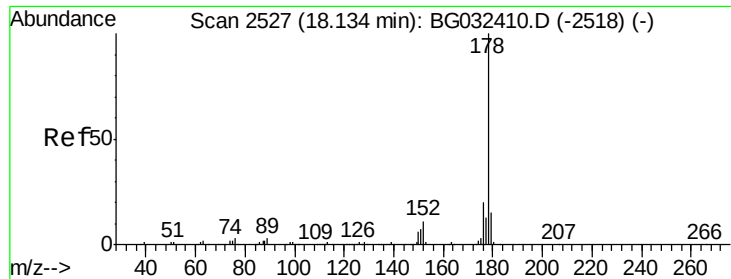
Acq: 6 Feb 2018 15:54

Tgt Ion:	200	Resp:	1911
Ion Ratio	Lower	Upper	
200	100		
173	25.2	5.2	45.2
215	39.5	30.4	70.4



Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E





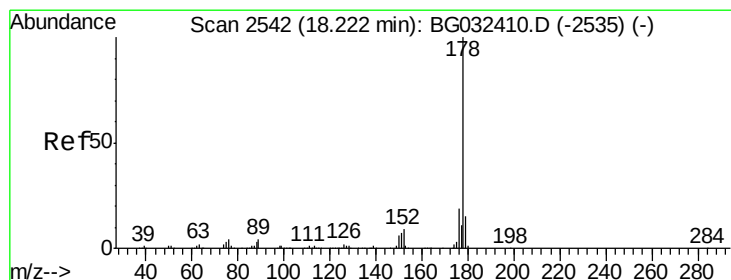
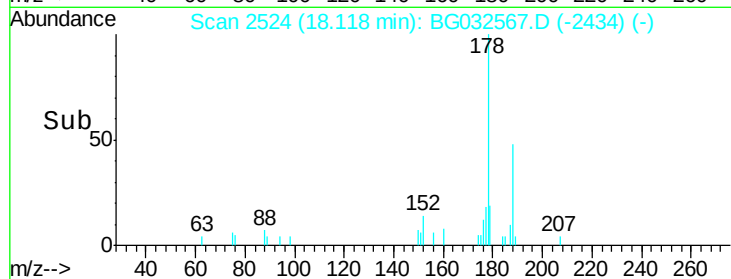
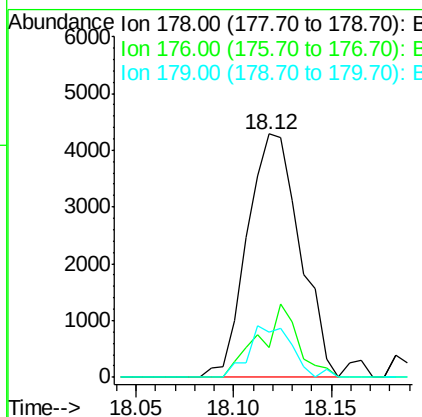
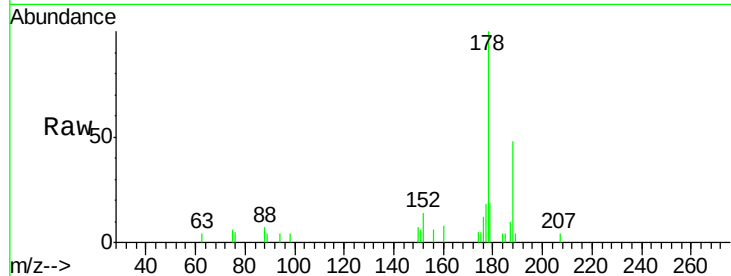
#70
Phenanthrene
Concen: 1.060 ng
RT: 18.12 min Scan# 2524
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
178	100		
176	12.2	15.7	23.5#
179	18.8	12.5	18.7#

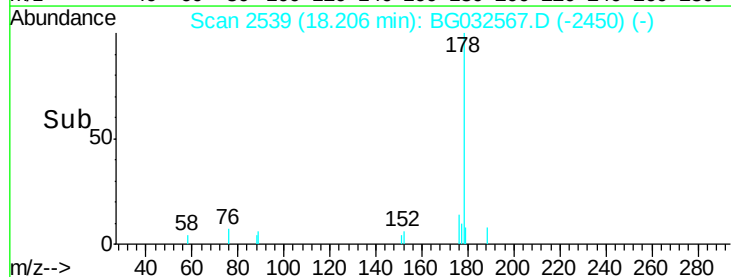
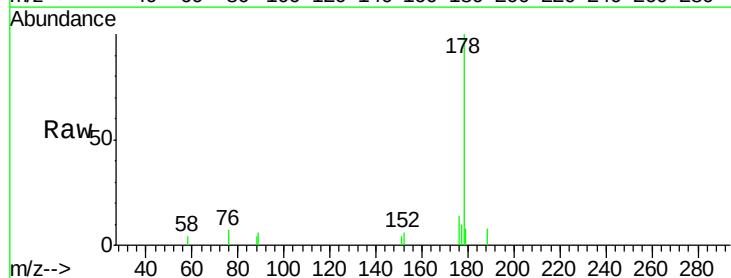
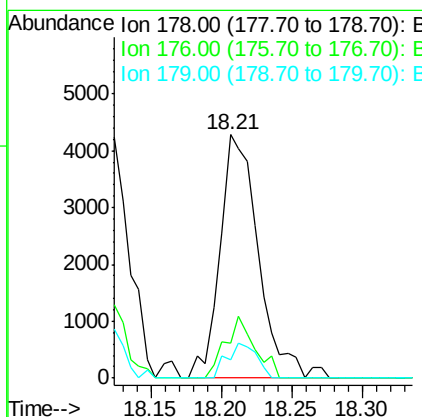
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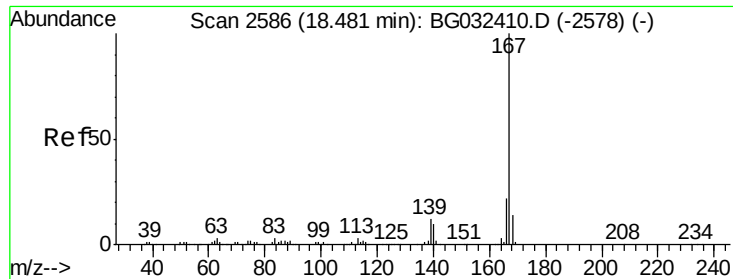
Sohil
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#71
Anthracene
Concen: 1.085 ng
RT: 18.21 min Scan# 2539
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	14.5	16.0	24.0#
179	7.6	12.5	18.7#





#72

Carbazole

Concen: 0.954 ng

RT: 18.48 min Scan# 2586

Delta R.T. 0.01 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

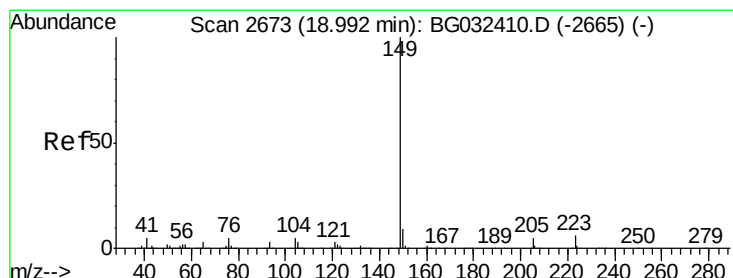
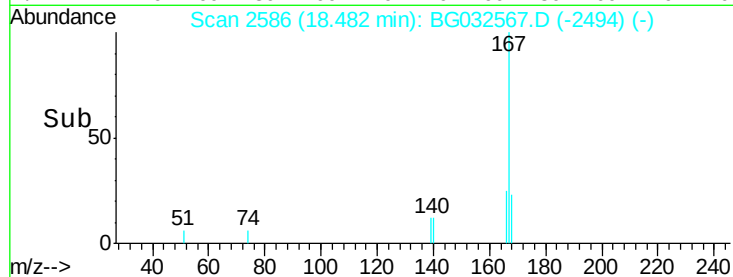
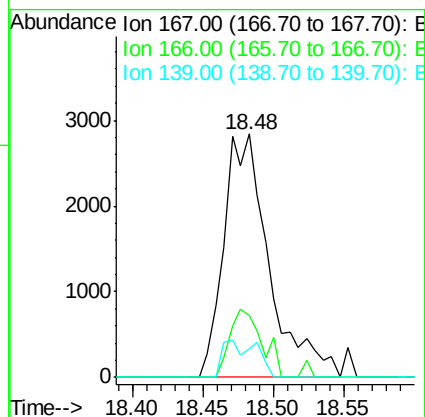
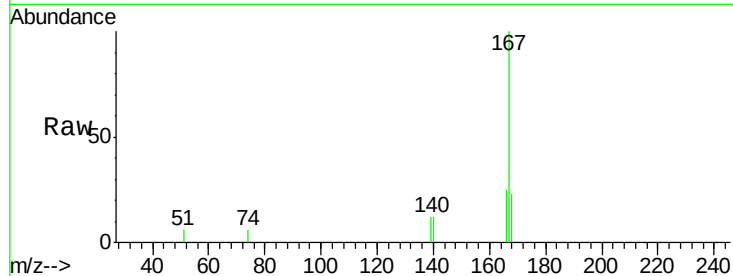
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	167	Resp:	6333
Ion	Ratio	Lower	Upper
167	100		
166	25.2	18.2	27.4
139	11.6	9.4	14.2

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#73

Di-n-butylphthalate

Concen: 1.015 ng

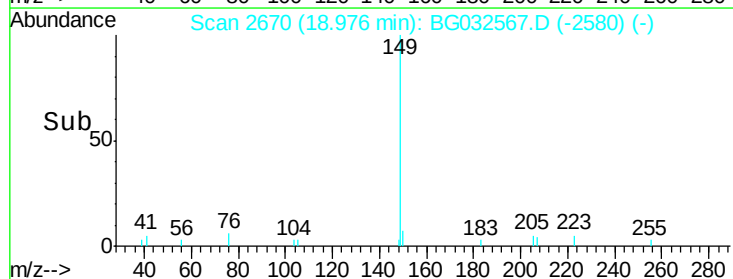
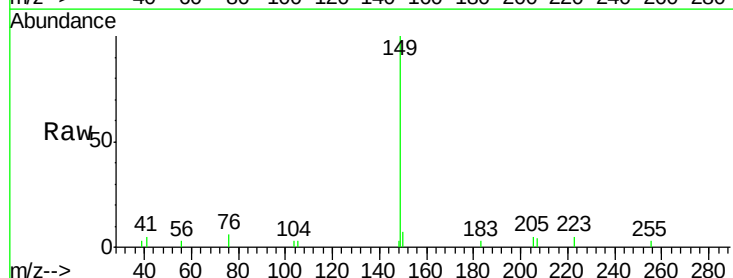
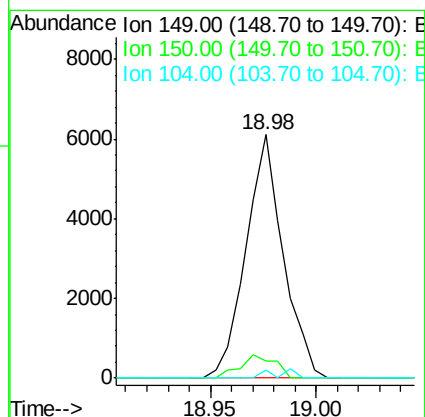
RT: 18.98 min Scan# 2670

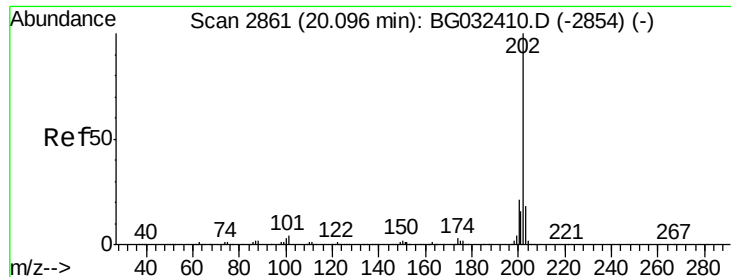
Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	149	Resp:	7462
Ion	Ratio	Lower	Upper
149	100		
150	7.0	7.8	11.6#
104	3.5	3.9	5.9#





#74

Fluoranthene

Concen: 1.022 ng

RT: 20.08 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

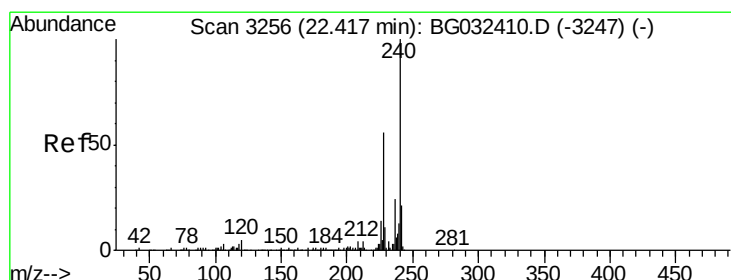
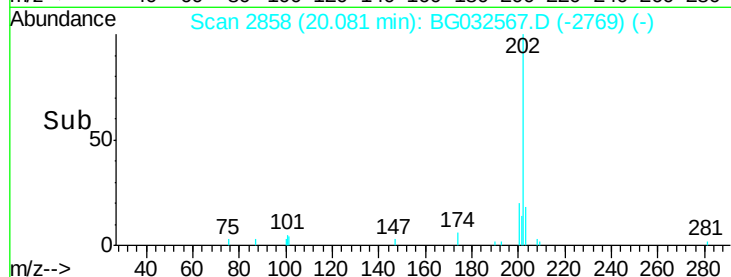
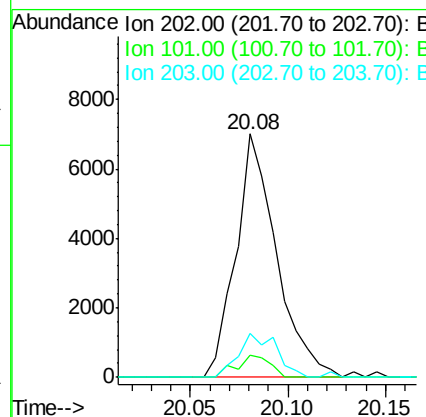
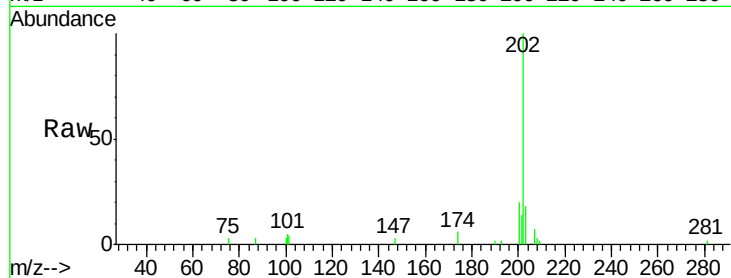
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	202	Resp:	10114
Ion Ratio	Lower	Upper	
202	100		
101	8.9	0.0	28.9
203	18.1	0.0	37.5

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#75

Chrysene-d12

Concen: 20.000 ng

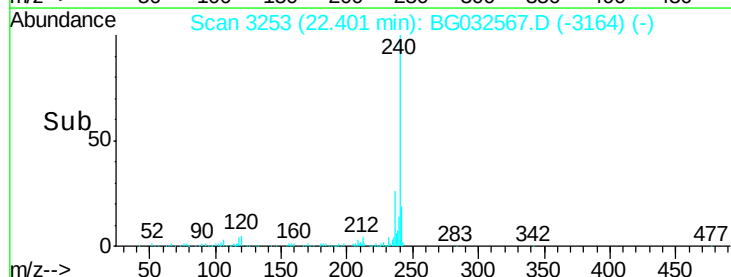
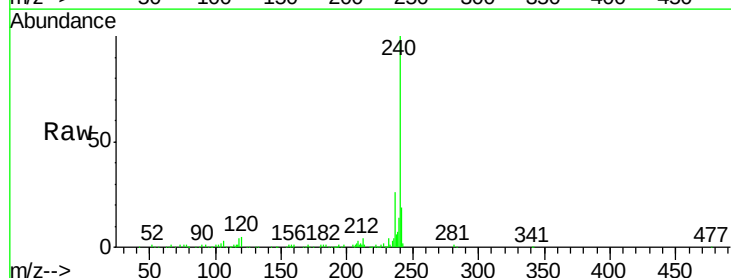
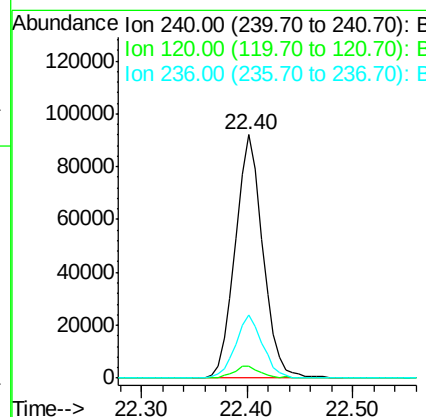
RT: 22.40 min Scan# 3253

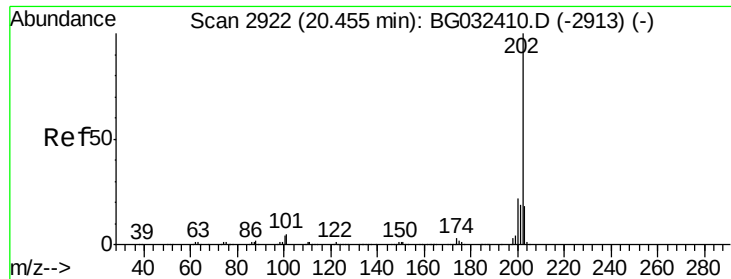
Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	240	Resp:	165738
Ion Ratio	Lower	Upper	
240	100		
120	5.0	6.8	10.2#
236	25.7	20.9	31.3





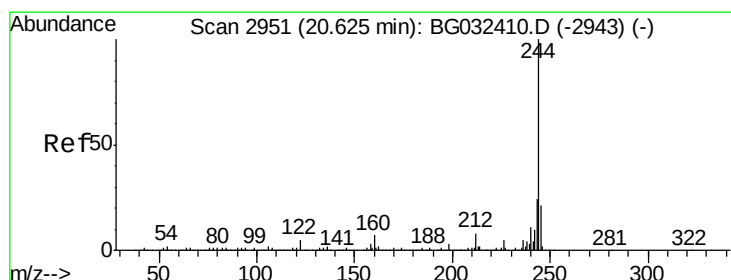
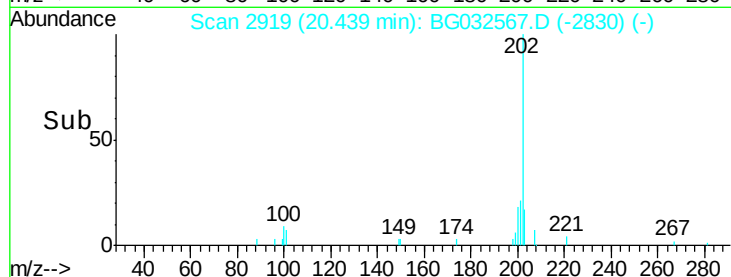
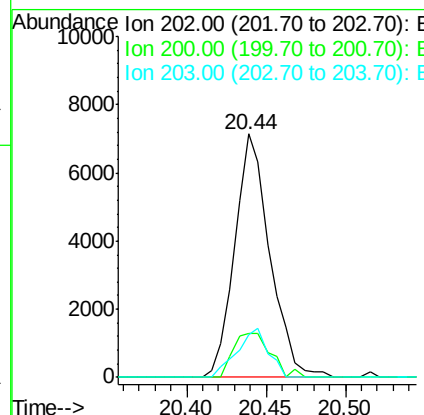
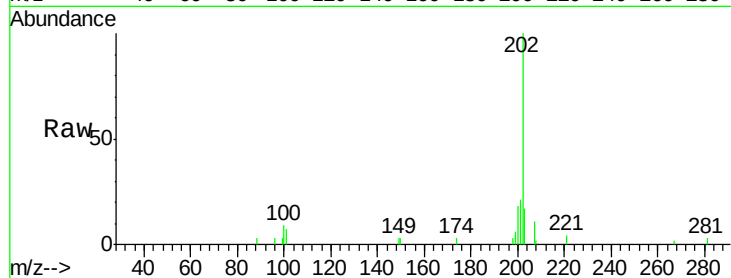
#77
Pvrene
Concen: 1.081 ng
RT: 20.44 min Scan# 2919
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
202	100		
200	17.9	16.9	25.3
203	17.4	13.9	20.9

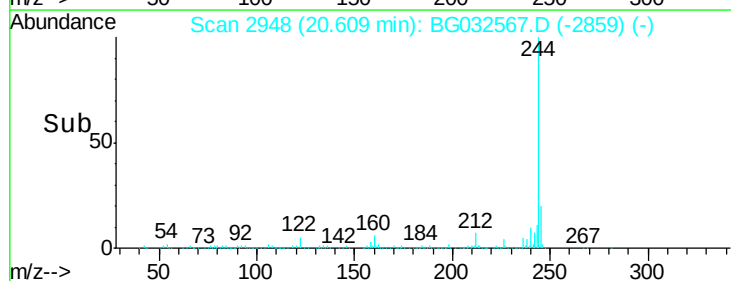
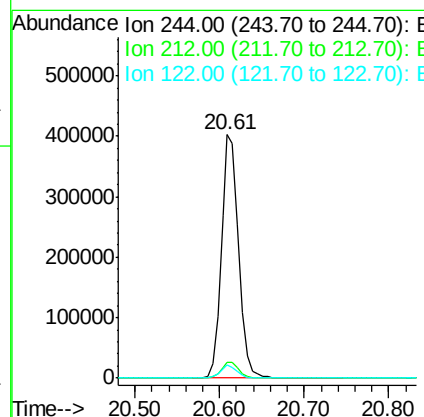
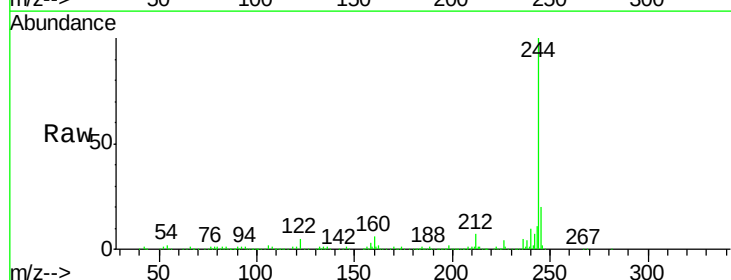
Manual Integrations
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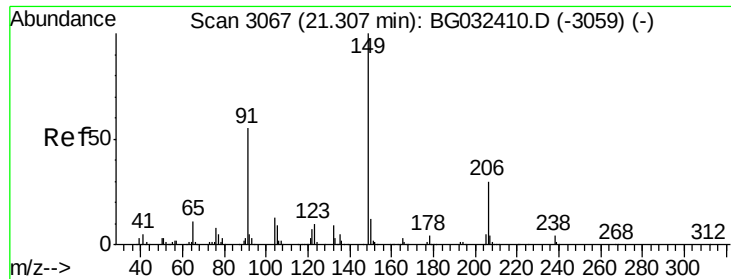
Sohil
2/7/2018 4:14:28 PM



#78
Terphenyl-d14
Concen: 74.033 ng
RT: 20.61 min Scan# 2948
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.8	8.8
122	5.3	7.0	10.4#





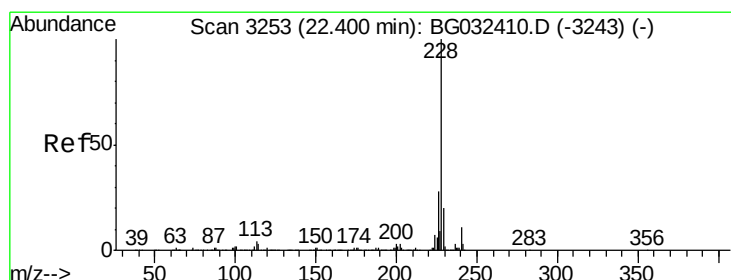
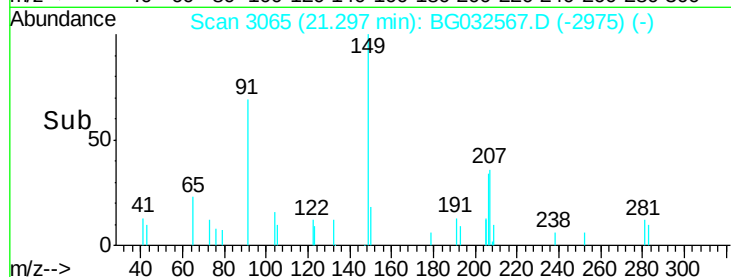
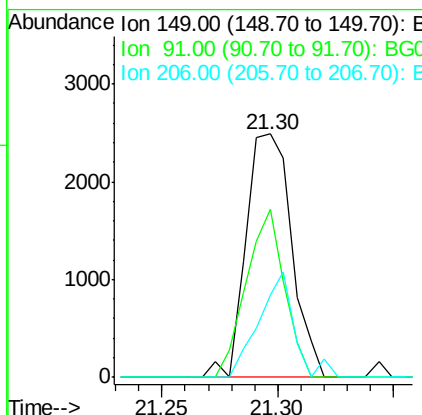
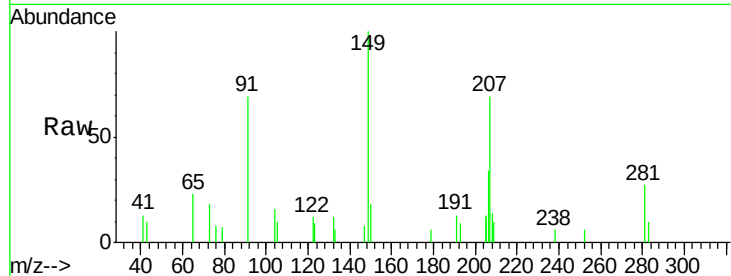
#79
Butylbenzylphthalate
Concen: 1.068 ng
RT: 21.30 min Scan# 3065
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
149	100		
91	69.0	62.2	93.2
206	34.0	18.6	27.8

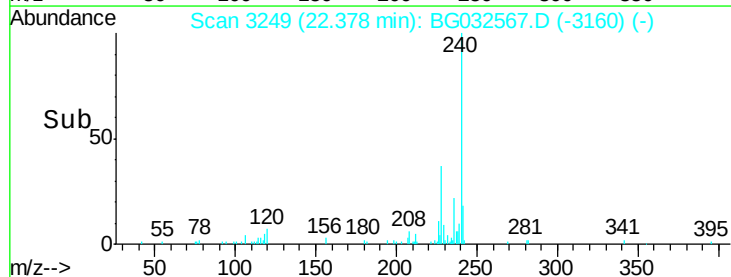
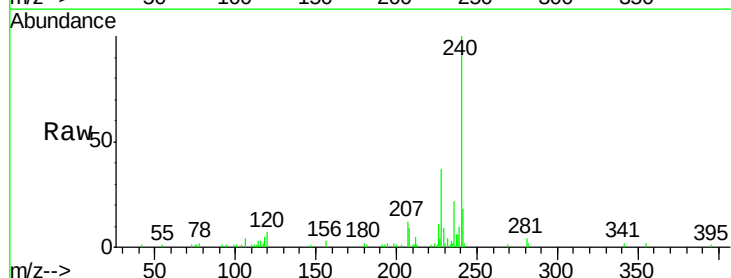
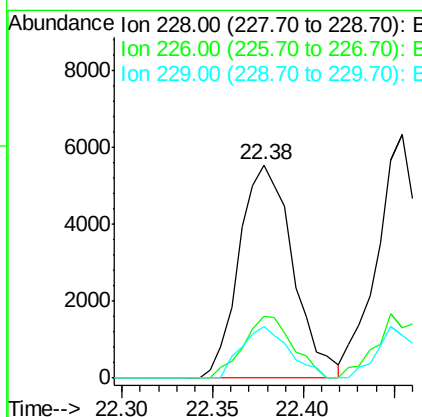
Manual Integrations
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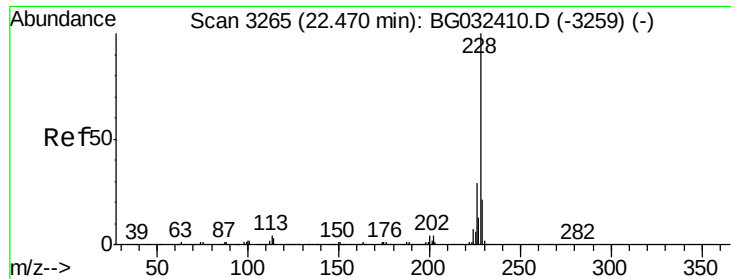
Sohil
2/7/2018 4:14:28 PM



#80
Benzo(a)anthracene
Concen: 1.112 ng
RT: 22.38 min Scan# 3249
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.7	34.1
229	24.0	16.2	24.2





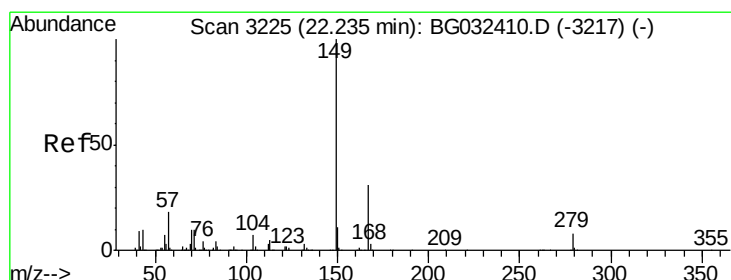
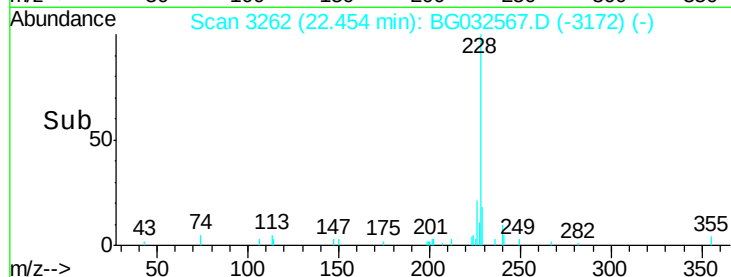
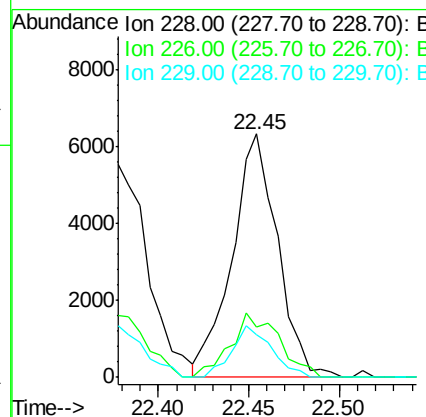
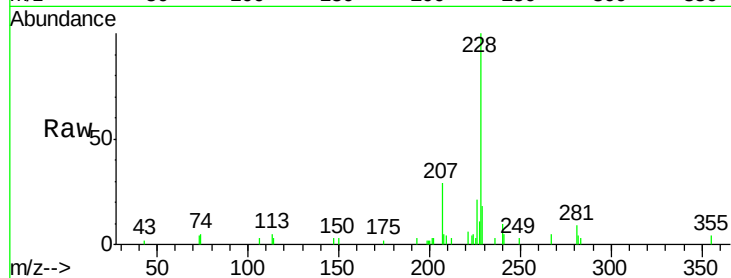
#82
Chrysene
Concen: 1.112 ng
RT: 22.45 min Scan# 3262
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
228	100		
226	20.6	24.9	37.3#
229	17.7	15.0	22.4

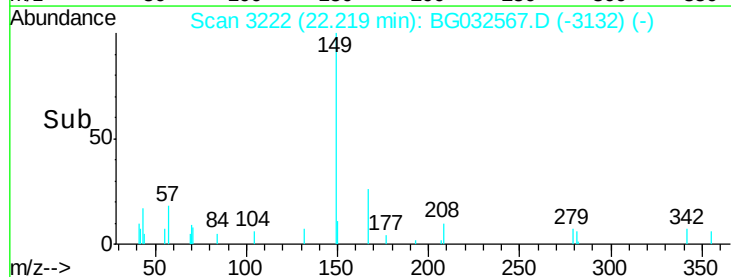
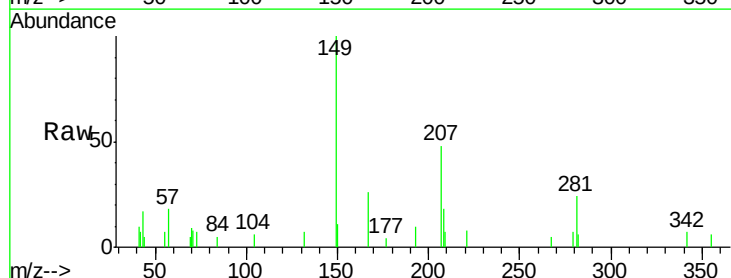
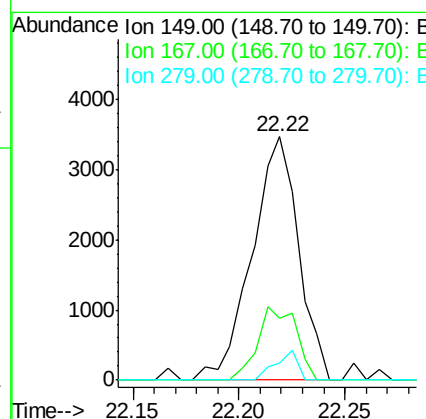
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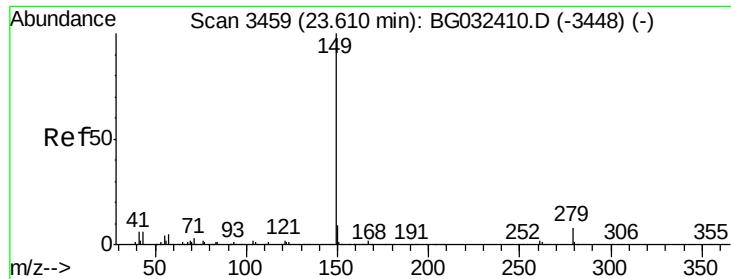
Sohil
2/7/2018 4:14:28 PM



#83
Bis(2-ethylhexyl)phthalate
Concen: 1.167 ng
RT: 22.22 min Scan# 3222
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	24.3	36.5
279	7.1	4.0	6.0#





#84

Di-n-octyl phthalate

Concen: 1.133 ng

RT: 23.58 min Scan# 3454

Delta R.T. 0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

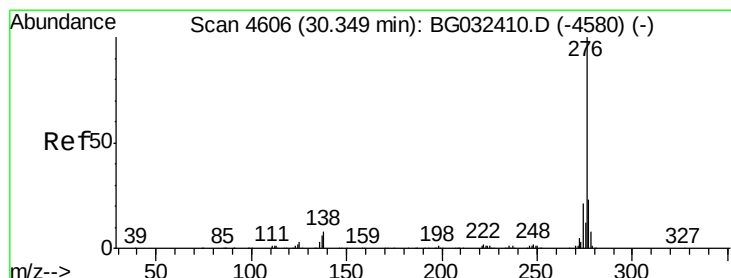
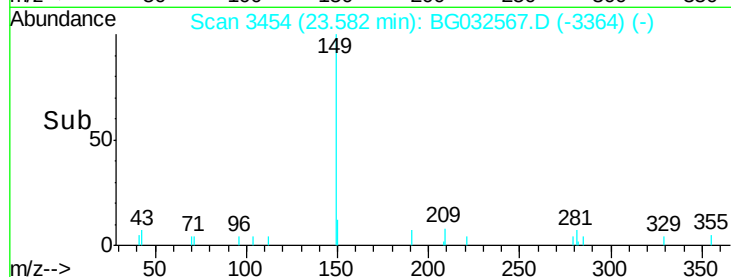
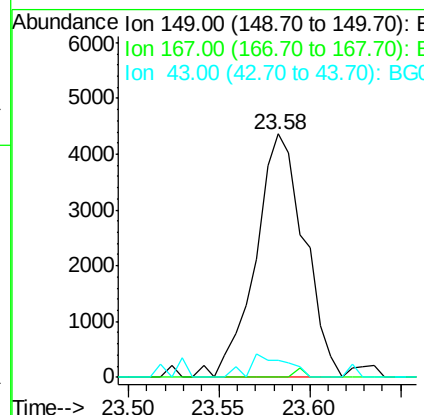
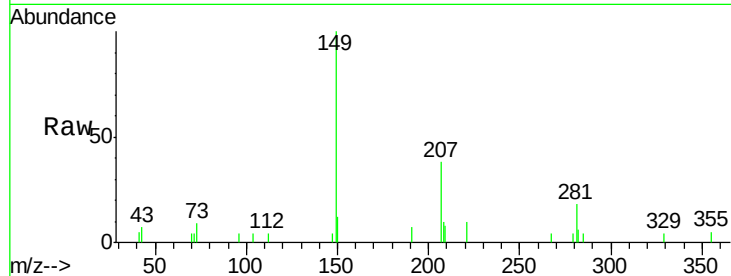
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	149	Resp:	8169
Ion Ratio	Lower	Upper	
149	100		
167	0.7	1.4	2.0#
43	0.0	8.9	13.3#

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#85

Indeno(1,2,3-cd)pyrene

Concen: 1.046 ng m

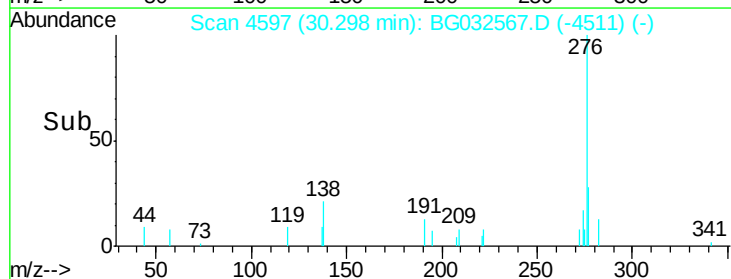
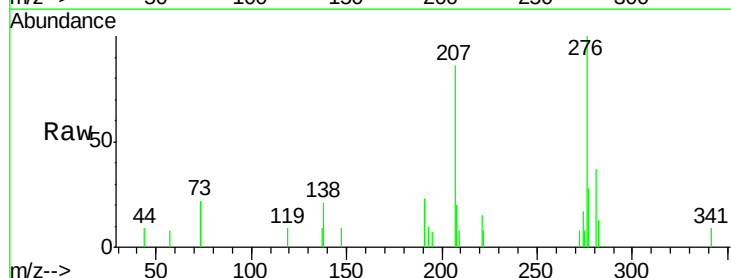
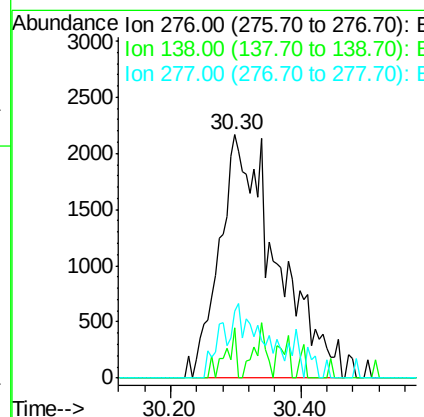
RT: 30.30 min Scan# 4597

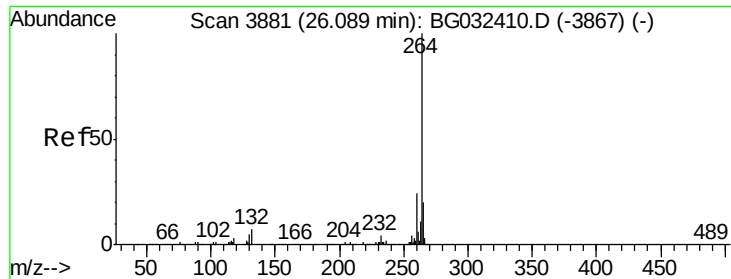
Delta R.T. -0.02 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	276	Resp:	13124
Ion Ratio	Lower	Upper	
276	100		
138	3.3	16.0	24.0#
277	6.5	20.0	30.0#





#86

Pervlene-d12

Concen: 20.000 ng

RT: 26.07 min Scan# 3878

Delta R.T. 0.01 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Instrument :

BNA_G

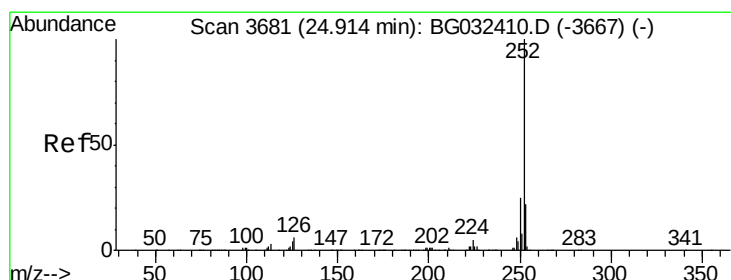
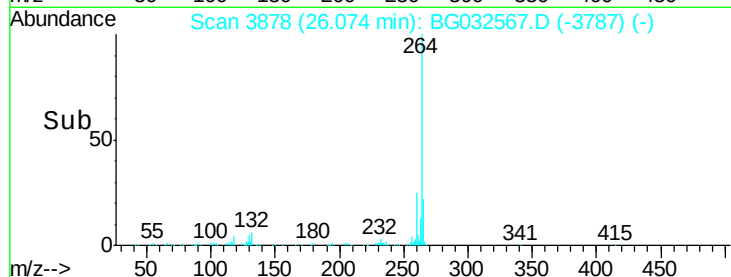
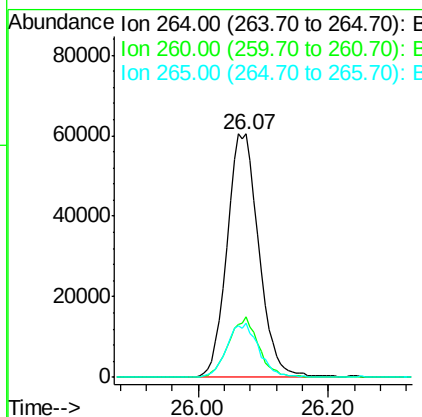
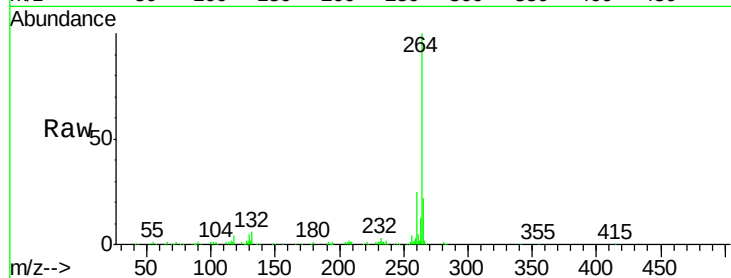
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:	264	Resp:	204860
Ion Ratio	Lower	Upper	
264	100		
260	24.7	17.4	26.0
265	22.5	17.7	26.5

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#87

Benzo(b)fluoranthene

Concen: 0.927 ng

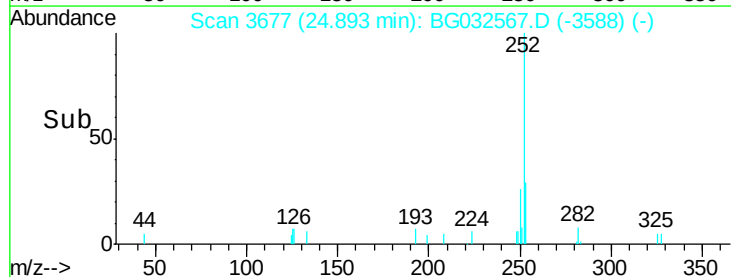
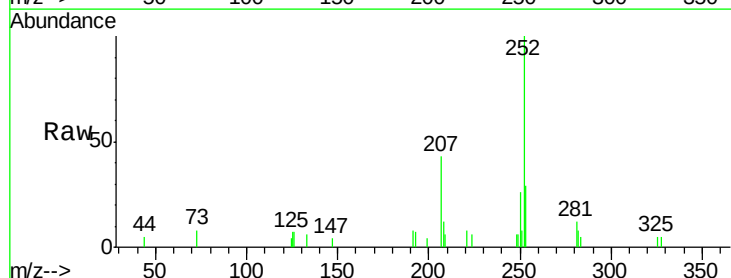
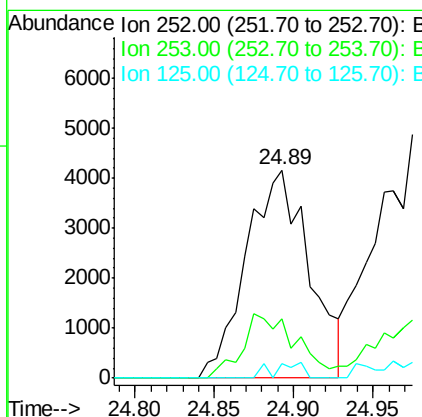
RT: 24.89 min Scan# 3677

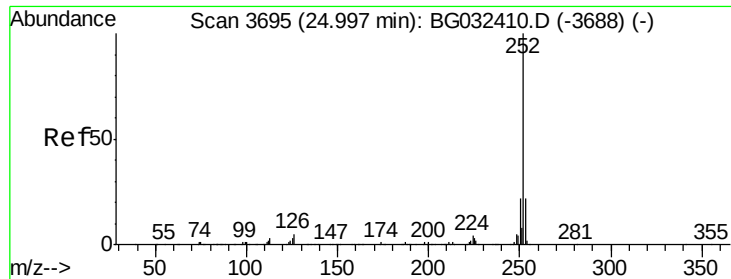
Delta R.T. -0.00 min

Lab File: BG032567.D

Acq: 6 Feb 2018 15:54

Tgt Ion:	252	Resp:	11477
Ion Ratio	Lower	Upper	
252	100		
253	28.7	18.2	27.4#
125	6.8	7.2	10.8#





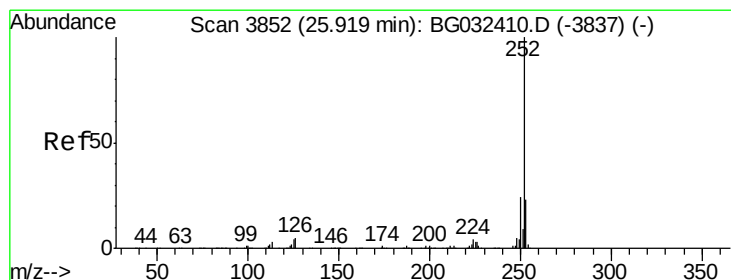
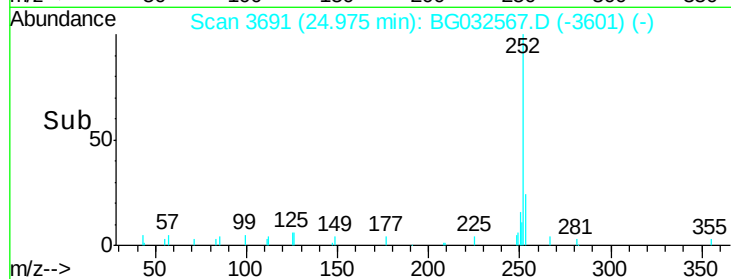
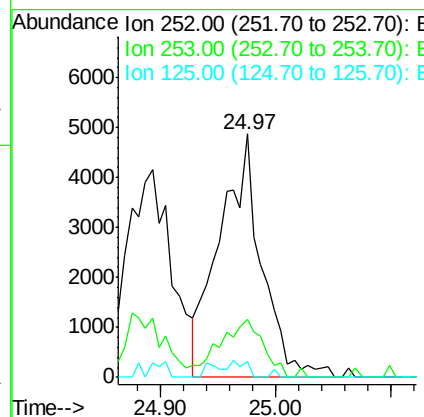
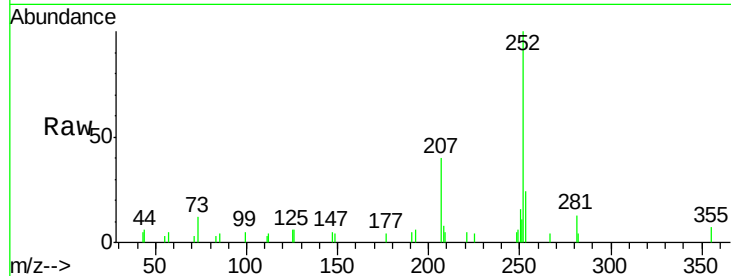
#88
Benzo(k)fluoranthene
Concen: 1.004 ng
RT: 24.97 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.2
125	6.3	6.6	9.8#

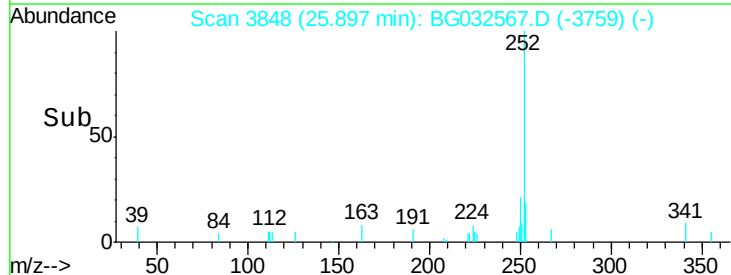
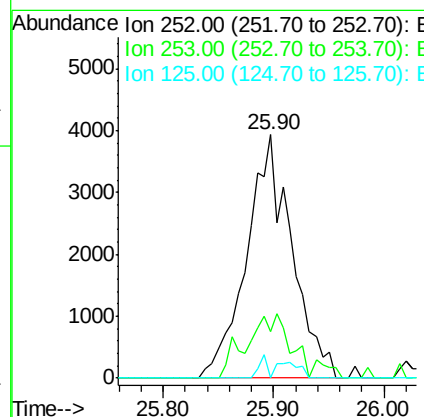
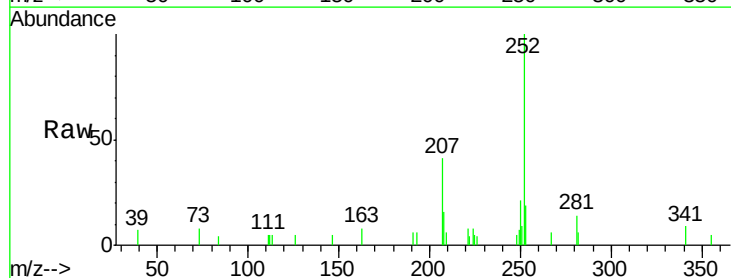
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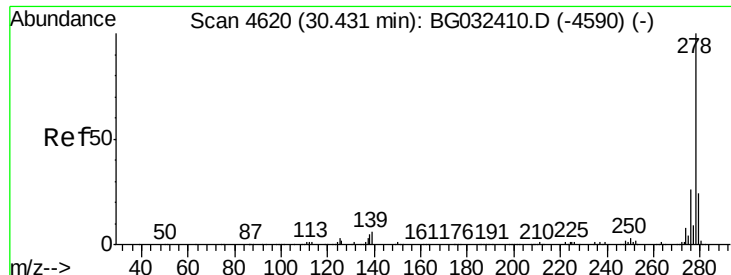
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#89
Benzo(a)pyrene
Concen: 0.949 ng
RT: 25.90 min Scan# 3848
Delta R.T. -0.00 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	19.3	18.3	27.5
125	4.9	7.3	10.9#





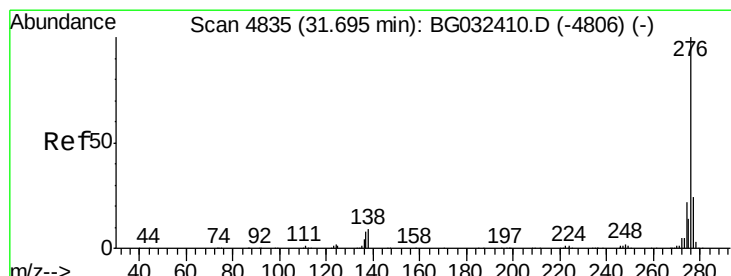
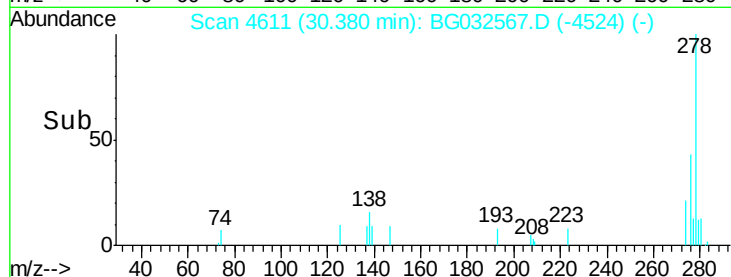
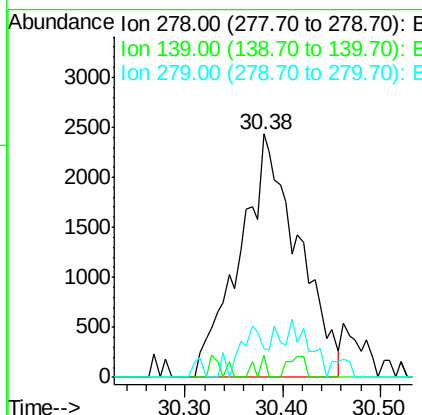
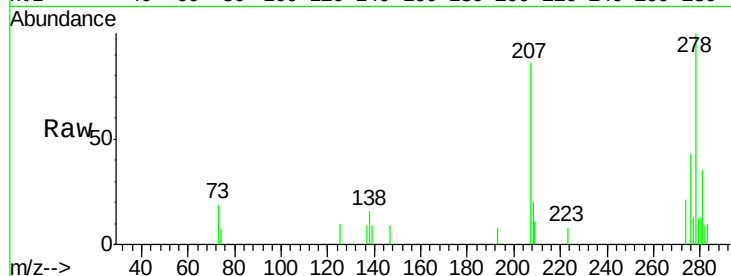
#90
Dibenzo(a,h)anthracene
Concen: 0.840 ng
RT: 30.38 min Scan# 4611
Delta R.T. -0.02 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
278	100		
139	9.2	9.8	14.6#
279	11.6	18.4	27.6#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 0.939 ng m
RT: 31.65 min Scan# 4827
Delta R.T. -0.01 min
Lab File: BG032567.D
Acq: 6 Feb 2018 15:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	17.5	18.3	27.5#
138	8.7	13.9	20.9#

