

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM101818\
 Data File : BM017191.D
 Acq On : 18 Oct 2018 14:01
 Operator : MJ/SJ
 Sample : J5164-02
 Misc : LOQ 20 PPM
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Quant Time: Oct 19 09:34:29 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM101718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 17 14:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	191696	20.00	ng	0.00
21) Naphthalene-d8	10.45	136	808708	20.00	ng	0.00
39) Acenaphthene-d10	14.31	164	457072	20.00	ng	0.00
64) Phenanthrene-d10	17.06	188	1073261	20.00	ng	0.00
76) Chrysene-d12	21.25	240	1309949	20.00	ng	-0.01
87) Perylene-d12	23.47	264	1363405	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.29	112	1685413	148.70	ng	0.00
7) Phenol-d6	6.85	99	2207965	143.04	ng	0.00
23) Nitrobenzene-d5	8.82	82	1225144	88.60	ng	-0.01
42) 2,4,6-Tribromophenol	15.80	330	928274	150.18	ng	-0.01
45) 2-Fluorobiphenyl	12.93	172	2897952	84.36	ng	0.00
79) Terphenyl-d14	19.70	244	4614669	79.40	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.26	88	96095	16.604	ng	90
3) Pyridine	3.65	79	261139	19.610	ng	88
4) n-Nitrosodimethylamine	3.56	42	114936	21.500	ng	# 69
6) Aniline	7.01	93	322112	16.683	ng	96
8) 2-Chlorophenol	7.24	128	269695	20.568	ng	97
9) Benzaldehyde	6.82	77	175726	17.854	ng	93
10) Phenol	6.87	94	335185	20.176	ng	97
11) bis(2-Chloroethyl)ether	7.11	93	246002	18.575	ng	99
12) 1,3-Dichlorobenzene	7.56	146	293368	19.193	ng	97
13) 1,4-Dichlorobenzene	7.70	146	301939	19.335	ng	95
14) 1,2-Dichlorobenzene	8.02	146	290959	19.338	ng	98
15) Benzyl Alcohol	7.92	79	225555	19.991	ng	96
16) 2,2'-oxybis(1-Chloropropan	8.20	45	332456	17.968	ng	99
17) 2-Methylphenol	8.11	107	217748	20.420	ng	95
18) Hexachloroethane	8.73	117	104172	19.492	ng	98
19) n-Nitroso-di-n-propylamine	8.47	70	194021	19.089	ng	95
20) 3+4-Methylphenols	8.43	107	291385	19.979	ng	97
22) Acetophenone	8.49	105	390115	19.030	ng	# 97
24) Nitrobenzene	8.86	77	299356	20.467	ng	94
25) Isophorone	9.39	82	500126	21.904	ng	98
26) 2-Nitrophenol	9.57	139	127279	22.088	ng	95
27) 2,4-Dimethylphenol	9.63	122	238777	23.650	ng	99
28) bis(2-Chloroethoxy)methane	9.87	93	323513	20.130	ng	99
29) 2,4-Dichlorophenol	10.10	162	243166	20.743	ng	99
30) 1,2,4-Trichlorobenzene	10.31	180	269309	19.151	ng	97
31) Naphthalene	10.49	128	814230	20.545	ng	99
32) Benzoic acid	9.73	122	132365	17.571	ng	95
33) 4-Chloroaniline	10.62	127	214950	12.558	ng	98
34) Hexachlorobutadiene	10.77	225	168284	18.887	ng	97
35) Caprolactam	11.39	113	72104	16.878	ng	92
36) 4-Chloro-3-methylphenol	11.74	107	263830	19.966	ng	97
37) 2-Methylnaphthalene	12.11	142	598543	22.070	ng	97
38) 1-Methylnaphthalene	12.33	142	569824	21.588	ng	97
40) 1,2,4,5-Tetrachlorobenzene	12.49	216	306408	19.036	ng	99

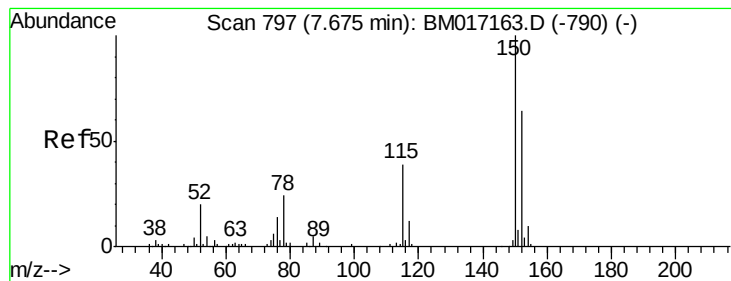
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM101818\
 Data File : BM017191.D
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	12.46	237	202852	26.068	ng	100
43) 2,4,6-Trichlorophenol	12.73	196	192685	20.621	ng	98
44) 2,4,5-Trichlorophenol	12.80	196	209574	20.916	ng	97
46) 1,1'-Biphenyl	13.14	154	760381	18.486	ng	98
47) 2-Chloronaphthalene	13.18	162	590945	19.529	ng	99
48) 2-Nitroaniline	13.39	65	158736	22.056	ng	97
49) Acenaphthylene	14.03	152	956838	21.815	ng	98
50) Dimethylphthalate	13.77	163	744609	21.116	ng	99
51) 2,6-Dinitrotoluene	13.89	165	156067	20.108	ng	95
52) Acenaphthene	14.37	154	560105	20.338	ng	99
53) 3-Nitroaniline	14.22	138	119793	14.251	ng	93
54) 2,4-Dinitrophenol	14.43	184	80762	24.140	ng	96
55) Dibenzofuran	14.71	168	911643	19.906	ng	99
56) 4-Nitrophenol	14.53	139	134364	21.221	ng	88
57) 2,4-Dinitrotoluene	14.69	165	215224	20.632	ng	96
58) Fluorene	15.36	166	730159	21.540	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.94	232	200357	21.936	ng	96
60) Diethylphthalate	15.14	149	736549	21.062	ng	99
61) 4-Chlorophenyl-phenylether	15.36	204	378204	19.571	ng	96
62) 4-Nitroaniline	15.39	138	168706	20.957	ng	94
63) Azobenzene	15.66	77	690321	20.309	ng	98
65) 4,6-Dinitro-2-methylphenol	15.45	198	115985	21.376	ng	96
66) n-Nitrosodiphenylamine	15.58	169	645027	19.865	ng	99
67) 4-Bromophenyl-phenylether	16.26	248	235733	20.004	ng	96
68) Hexachlorobenzene	16.36	284	261798	19.125	ng	99
69) Atrazine	16.53	200	237515	20.437	ng	98
70) Pentachlorophenol	16.71	266	145213	15.486	ng	96
71) Phenanthrene	17.10	178	1217342	21.023	ng	99
72) Anthracene	17.19	178	1204689	21.895	ng	100
73) Carbazole	17.47	167	1098864	19.551	ng	100
74) Di-n-butylphthalate	18.04	149	1204620	20.321	ng	99
75) Fluoranthene	19.12	202	1448400	22.229	ng	100
77) Benzidine	19.32	184	392334	11.812	ng	99
78) Pyrene	19.49	202	1500727	20.498	ng	99
80) Butylbenzylphthalate	20.40	149	555123	24.122	ng	93
81) Benzo(a)anthracene	21.24	228	1587274	21.532	ng	99
82) 3,3'-Dichlorobenzidine	21.18	252	386565	14.070	ng	99
83) Chrysene	21.29	228	1525447	20.907	ng	100
84) Bis(2-ethylhexyl)phthalate	21.18	149	830533	22.637	ng	99
85) Di-n-octyl phthalate	22.05	149	1416942	22.916	ng	100
86) Indeno(1,2,3-cd)pyrene	25.68	276	1797510	22.026	ng	98
88) Benzo(b)fluoranthene	22.80	252	1643647	22.050	ng	100
89) Benzo(k)fluoranthene	22.85	252	1548227	20.699	ng	98
90) Benzo(a)pyrene	23.37	252	1537072	21.718	ng	99
91) Dibenzo(a,h)anthracene	25.69	278	1507406	21.449	ng	98
92) Benzo(g,h,i)perylene	26.36	276	1508688	21.660	ng	97

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

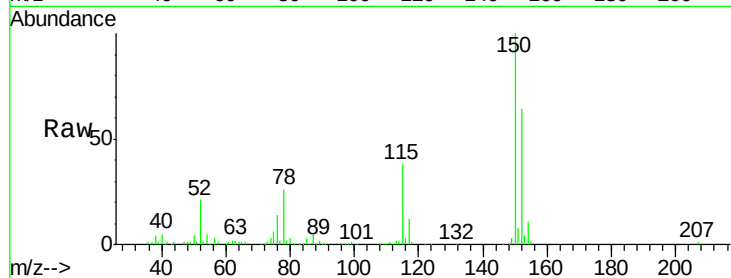


#1

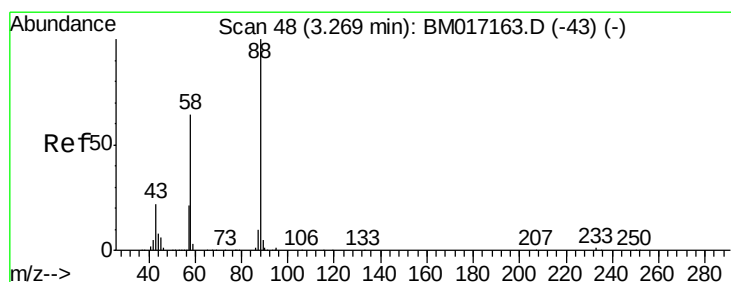
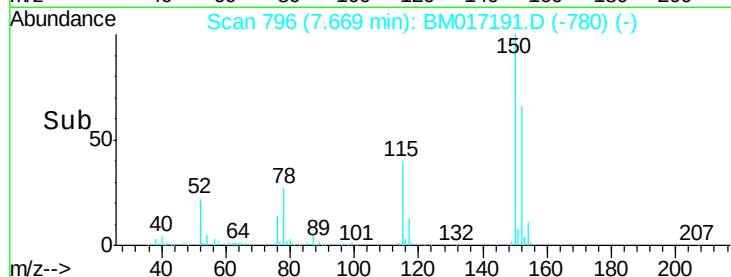
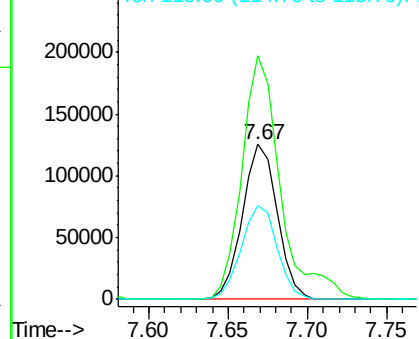
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.67 min Scan# 796
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:152 Resp: 191696
Ion Ratio Lower Upper
152 100
150 157.2 124.3 186.5
115 60.3 48.1 72.1



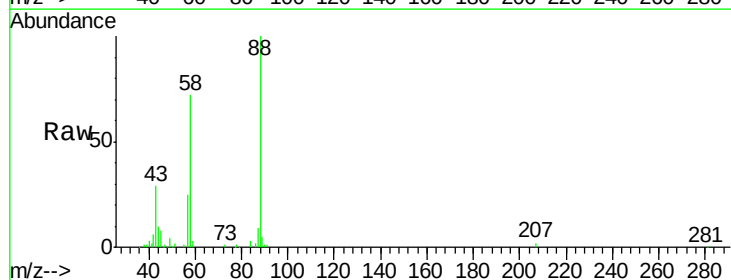
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



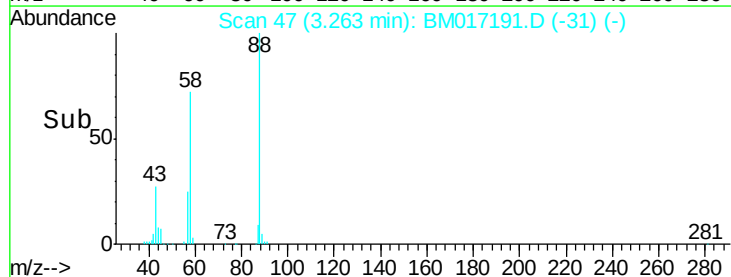
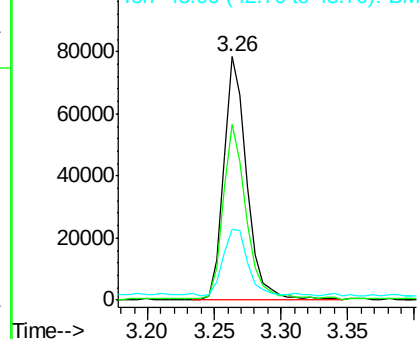
#2

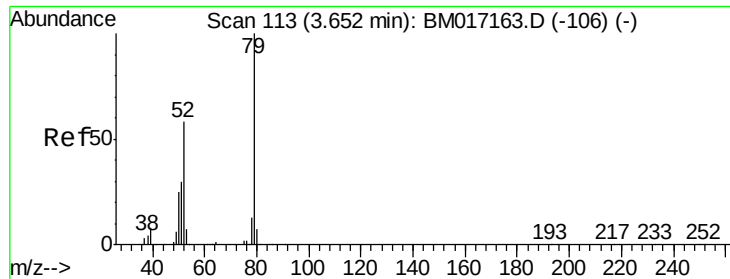
1,4-Dioxane
Concen: 16.604 ng
RT: 3.26 min Scan# 47
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion: 88 Resp: 96095
Ion Ratio Lower Upper
88 100
58 71.2 50.2 75.4
43 28.6 19.3 28.9



Abundance Ion 88.00 (87.70 to 88.70): BM0
Ion 58.00 (57.70 to 58.70): BM0
Ion 43.00 (42.70 to 43.70): BM0





#3

Pyridine

Concen: 19.610 ng

RT: 3.65 min Scan# 113

Delta R.T. -0.00 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

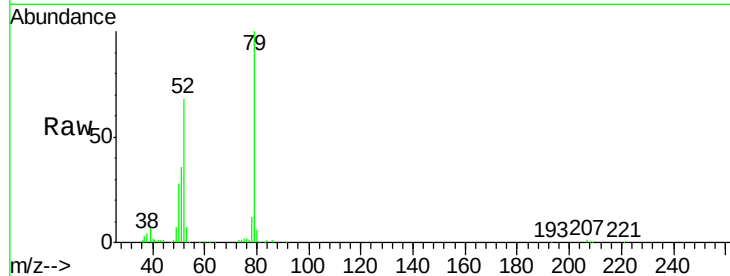
Tgt Ion: 79 Resp: 261139

Ion Ratio Lower Upper

79 100

52 68.3 46.5 69.7

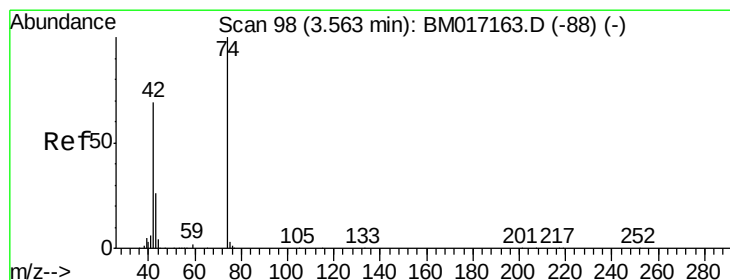
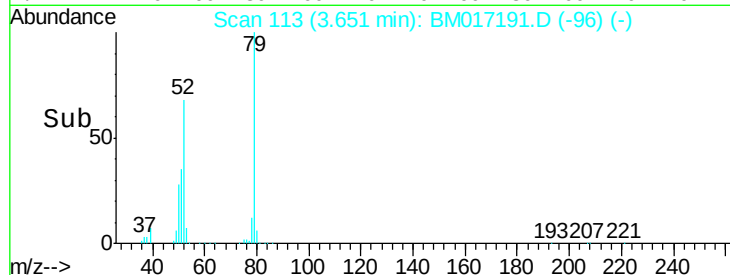
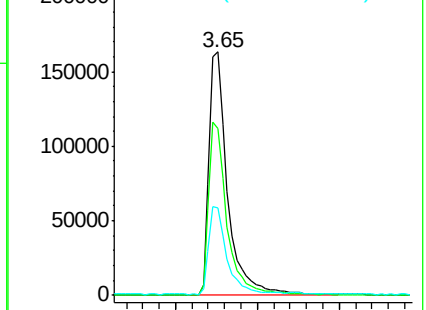
51 36.0 24.6 37.0



Abundance Ion 79.00 (78.70 to 79.70): BM017191.D (-96) (-)

Ion 52.00 (51.70 to 52.70): BM017191.D (-96) (-)

Ion 51.00 (50.70 to 51.70): BM017191.D (-96) (-)



#4

n-Nitrosodimethylamine

Concen: 21.500 ng

RT: 3.56 min Scan# 98

Delta R.T. -0.00 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

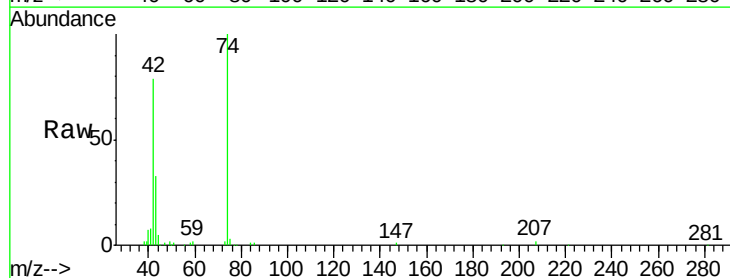
Tgt Ion: 42 Resp: 114936

Ion Ratio Lower Upper

42 100

74 126.0 114.4 171.6

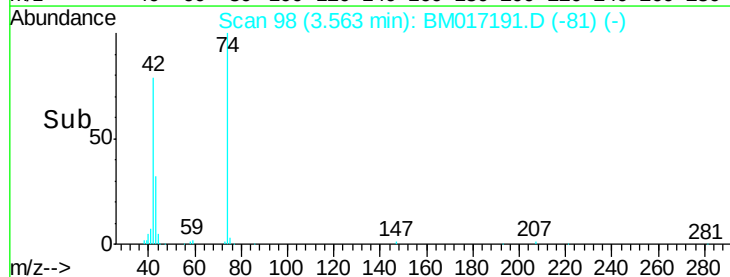
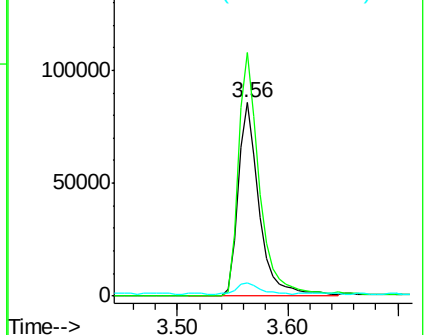
44 6.7 48.6 73.0#

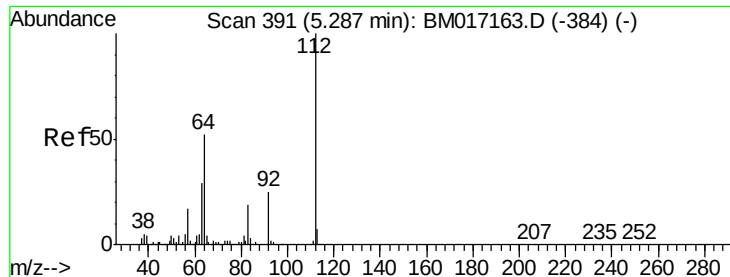


Abundance Ion 42.00 (41.70 to 42.70): BM017191.D (-81) (-)

Ion 74.00 (73.70 to 74.70): BM017191.D (-81) (-)

Ion 44.00 (43.70 to 44.70): BM017191.D (-81) (-)





#5

2-Fluorophenol

Concen: 148.704 ng

RT: 5.29 min Scan# 391

Delta R.T. 0.00 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

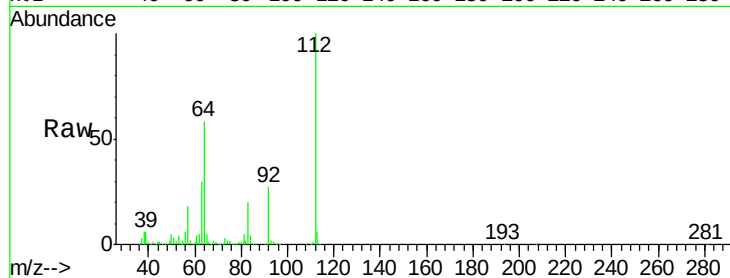
Tgt Ion: 112 Resp: 1685413

Ion Ratio Lower Upper

112 100

64 57.9 41.7 62.5

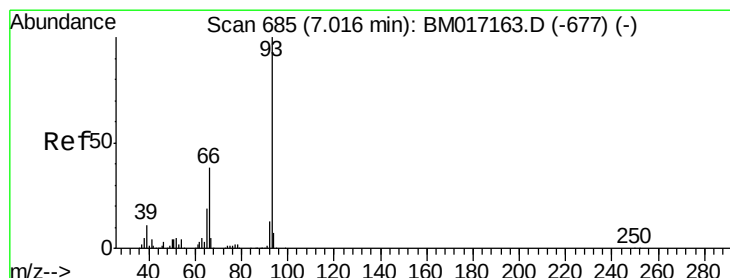
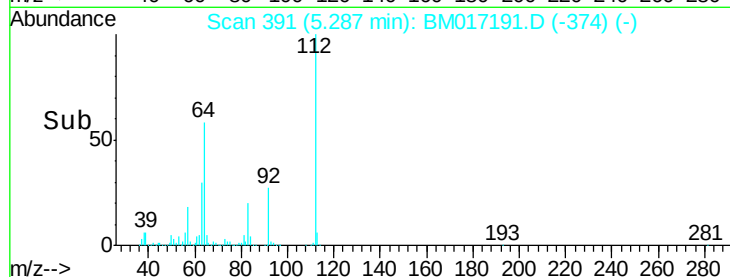
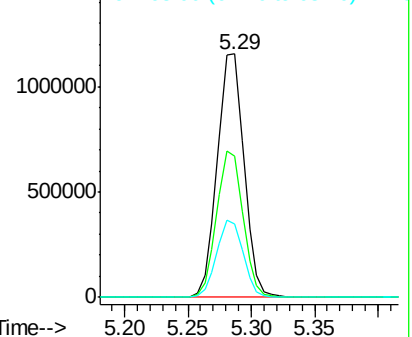
63 30.3 23.0 34.4



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#6

Aniline

Concen: 16.683 ng

RT: 7.01 min Scan# 684

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

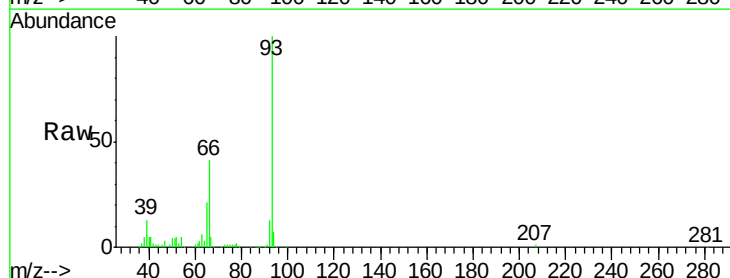
Tgt Ion: 93 Resp: 322112

Ion Ratio Lower Upper

93 100

66 40.8 30.4 45.6

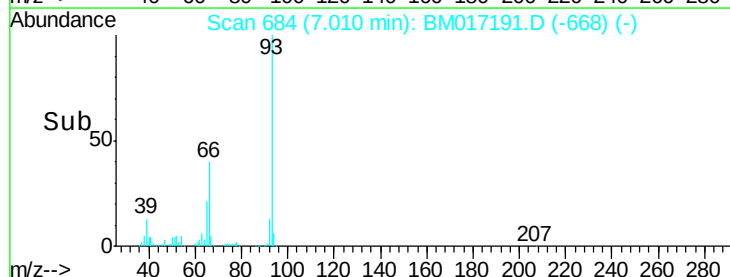
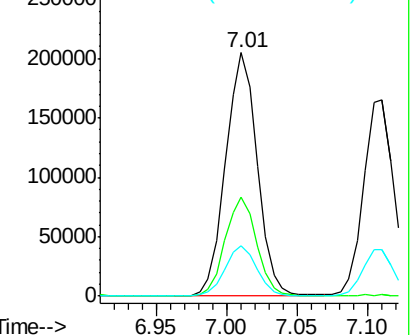
65 20.6 15.3 22.9

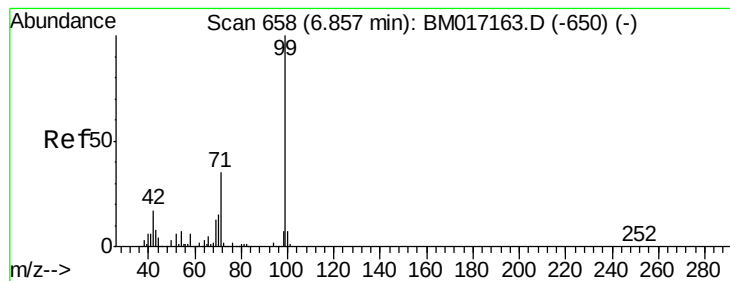


Abundance Ion 93.00 (92.70 to 93.70): B

Ion 66.00 (65.70 to 66.70): B

Ion 65.00 (64.70 to 65.70): B





#7

Phenol-d6

Concen: 143.037 ng

RT: 6.85 min Scan# 657

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

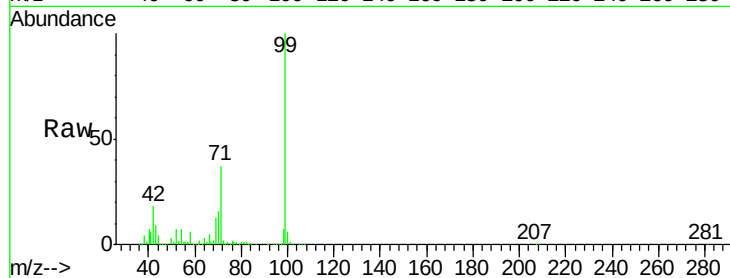
Tgt Ion: 99 Resp: 2207965

Ion Ratio Lower Upper

99 100

42 17.9 13.3 19.9

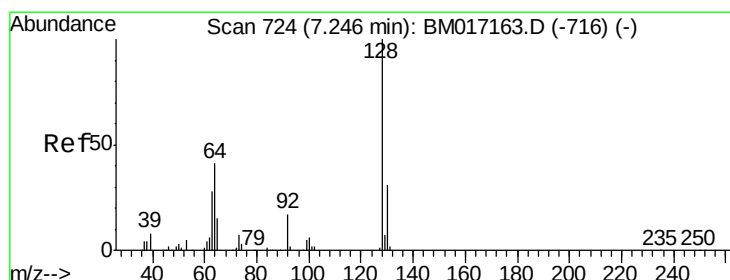
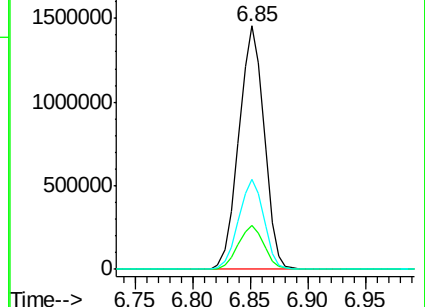
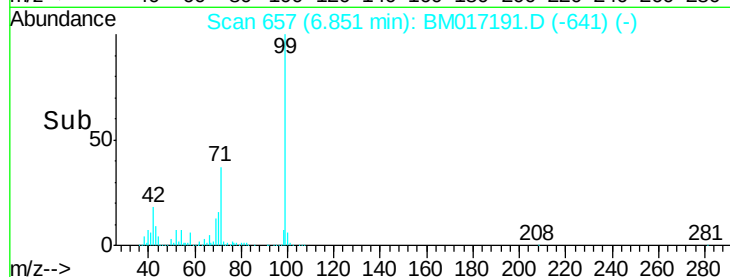
71 36.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BM017191.D (-641) (-)

Ion 42.00 (41.70 to 42.70): BM017191.D (-641) (-)

Ion 71.00 (70.70 to 71.70): BM017191.D (-641) (-)



#8

2-Chlorophenol

Concen: 20.568 ng

RT: 7.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

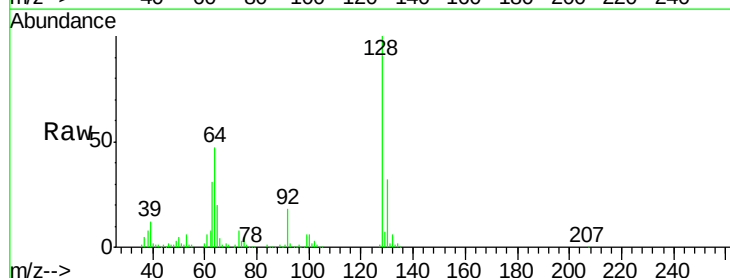
Tgt Ion: 128 Resp: 269695

Ion Ratio Lower Upper

128 100

130 31.6 11.0 51.0

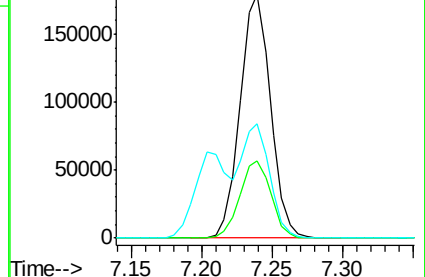
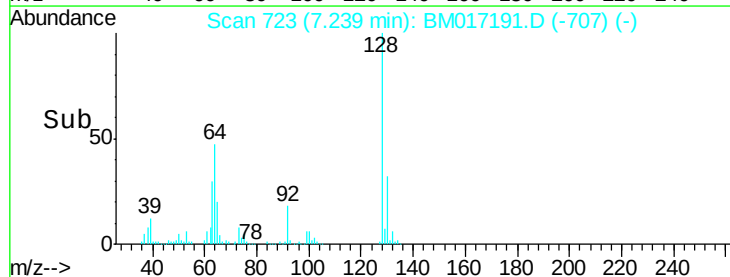
64 46.8 24.1 64.1

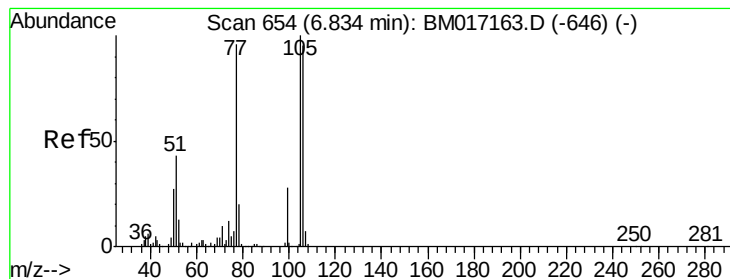


Abundance Ion 128.00 (127.70 to 128.70): BM017191.D (-707) (-)

Ion 130.00 (129.70 to 130.70): BM017191.D (-707) (-)

Ion 64.00 (63.70 to 64.70): BM017191.D (-707) (-)





#9

Benzaldehyde

Concen: 17.854 ng

RT: 6.82 min Scan# 652

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

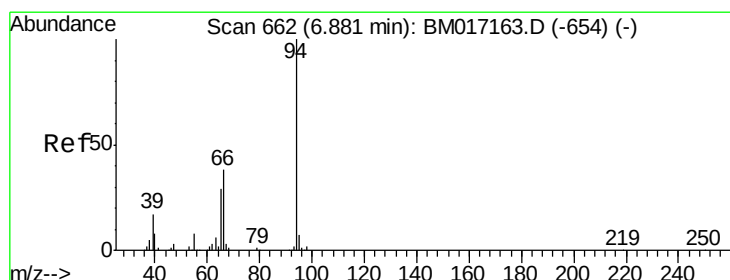
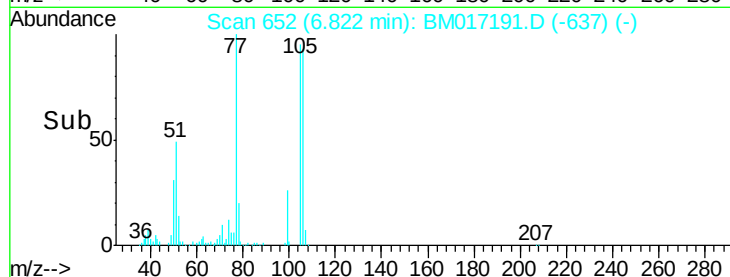
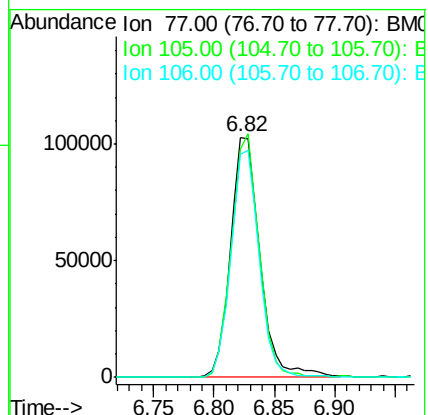
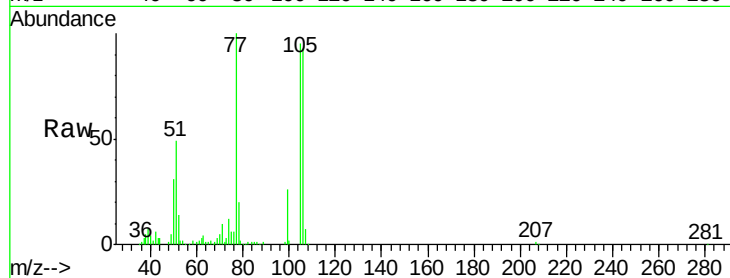
Tgt Ion: 77 Resp: 175726

Ion Ratio Lower Upper

77 100

105 95.1 83.9 123.9

106 92.9 78.2 118.2



#10

Phenol

Concen: 20.176 ng

RT: 6.87 min Scan# 661

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

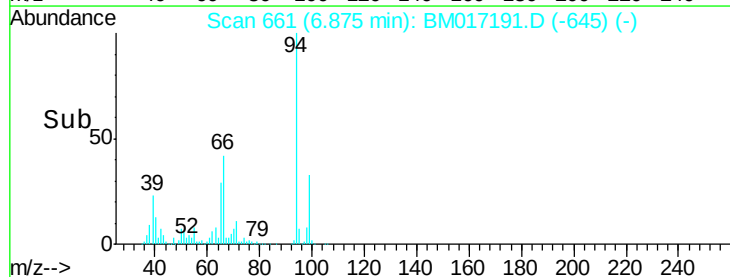
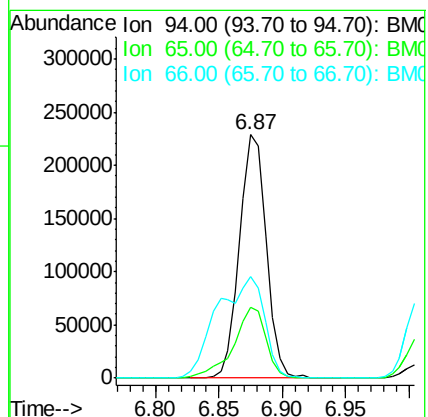
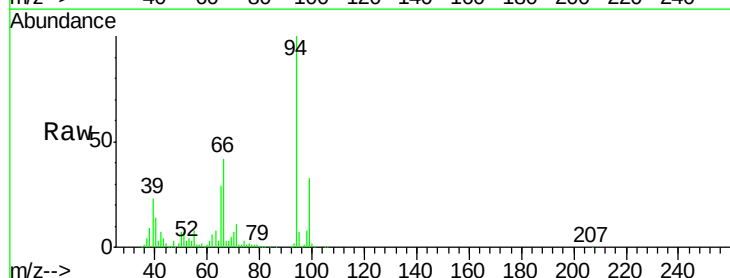
Tgt Ion: 94 Resp: 335185

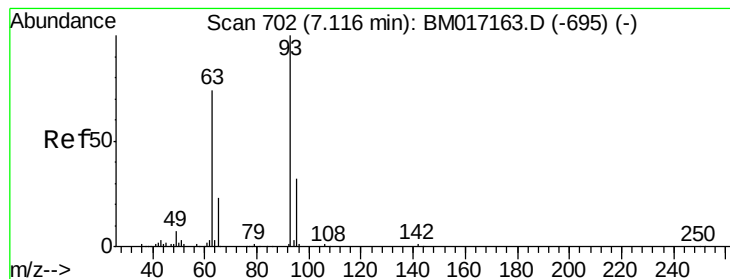
Ion Ratio Lower Upper

94 100

65 29.2 9.4 49.4

66 41.8 19.0 59.0





#11

bis(2-Chloroethyl)ether

Concen: 18.575 ng

RT: 7.11 min Scan# 701

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

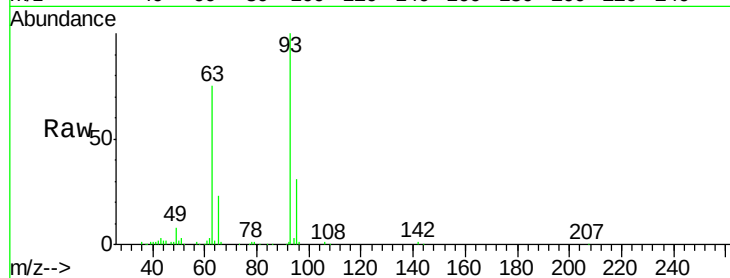
Tgt Ion: 93 Resp: 246002

Ion Ratio Lower Upper

93 100

63 75.0 54.0 94.0

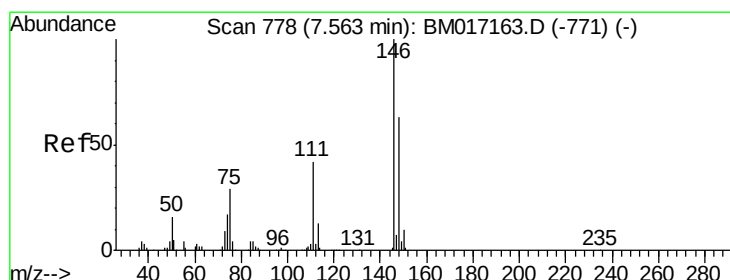
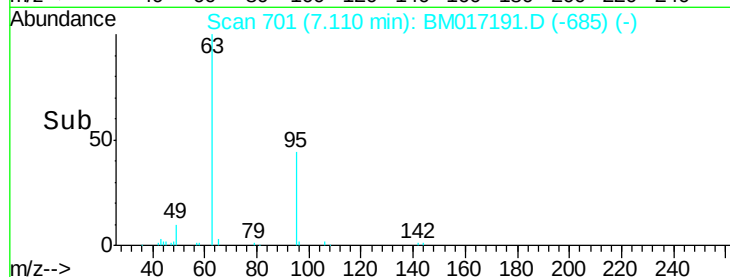
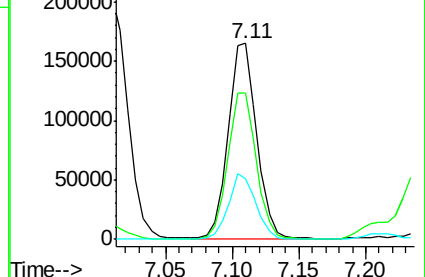
95 30.9 11.8 51.8



Abundance Ion 93.00 (92.70 to 93.70): BM017163.D (-695) (-)

Ion 63.00 (62.70 to 63.70): BM017163.D (-695) (-)

Ion 95.00 (94.70 to 95.70): BM017163.D (-695) (-)



#12

1,3-Dichlorobenzene

Concen: 19.193 ng

RT: 7.56 min Scan# 777

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

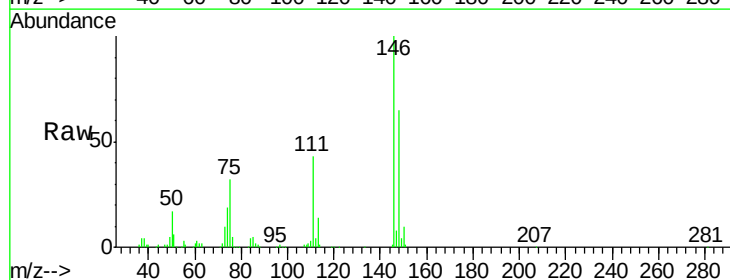
Tgt Ion: 146 Resp: 293368

Ion Ratio Lower Upper

146 100

148 64.5 50.2 75.4

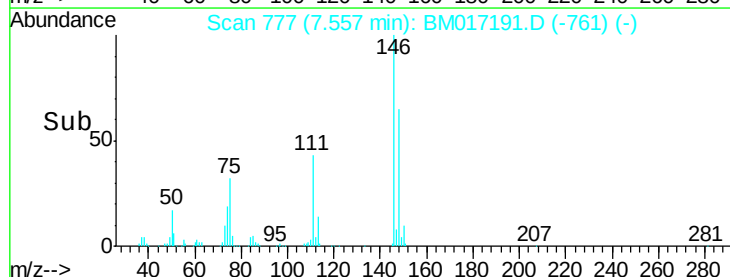
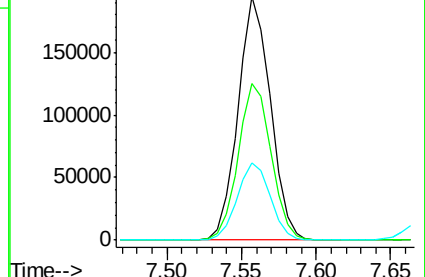
75 31.5 23.3 34.9

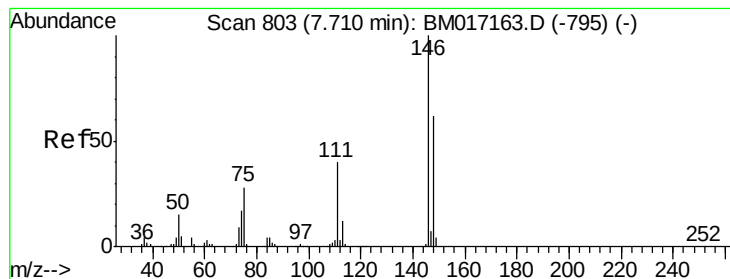


Abundance Ion 146.00 (145.70 to 146.70): BM017163.D (-771) (-)

Ion 148.00 (147.70 to 148.70): BM017163.D (-771) (-)

Ion 75.00 (74.70 to 75.70): BM017163.D (-771) (-)





#13

1,4-Dichlorobenzene

Concen: 19.335 ng

RT: 7.70 min Scan# 802

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

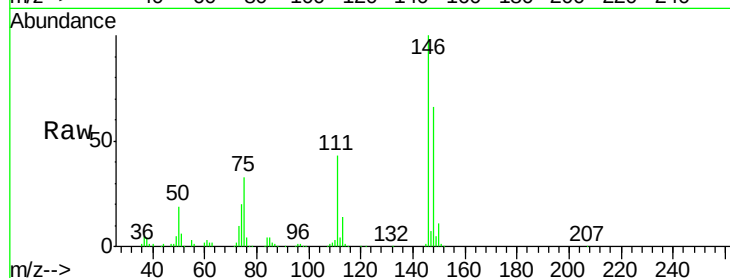
Tgt Ion:146 Resp: 301939

Ion Ratio Lower Upper

146 100

148 66.1 49.8 74.6

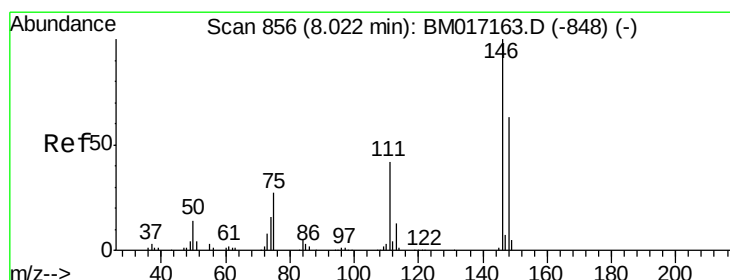
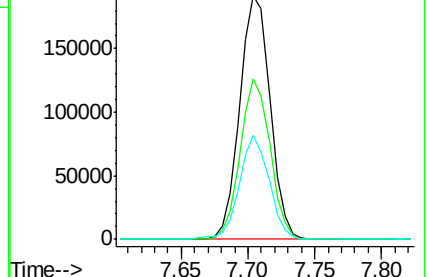
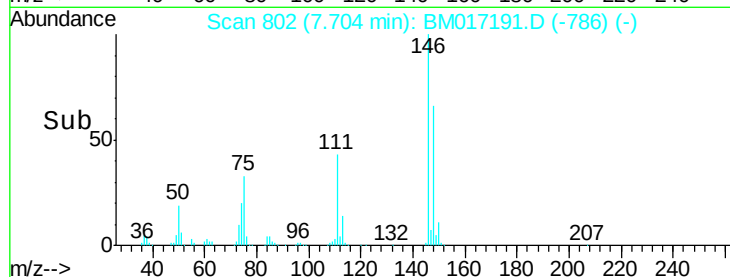
111 42.9 32.1 48.1



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



#14

1,2-Dichlorobenzene

Concen: 19.338 ng

RT: 8.02 min Scan# 855

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

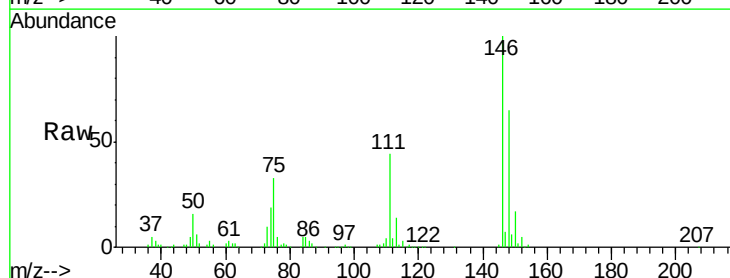
Tgt Ion:146 Resp: 290959

Ion Ratio Lower Upper

146 100

148 64.6 50.8 76.2

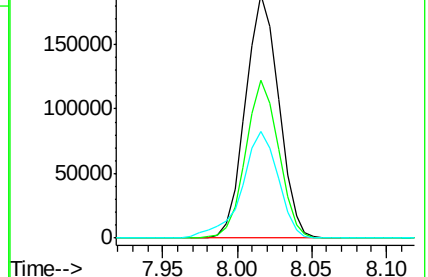
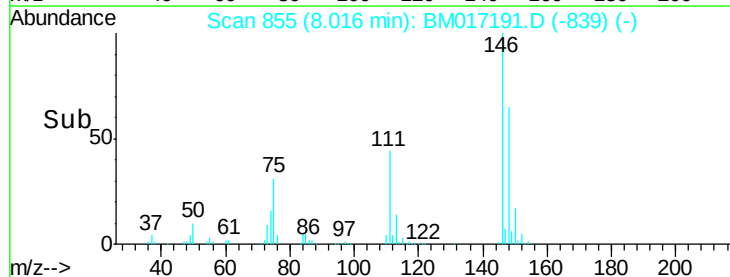
111 44.0 33.8 50.6

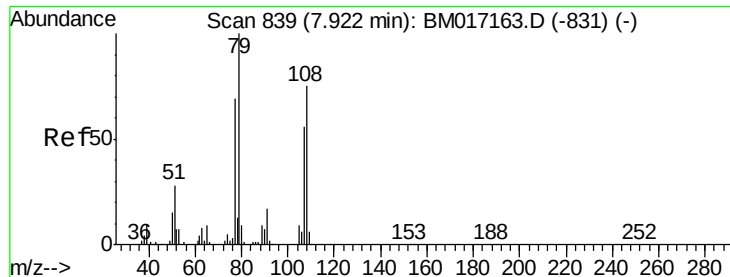


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 19.991 ng

RT: 7.92 min Scan# 838

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

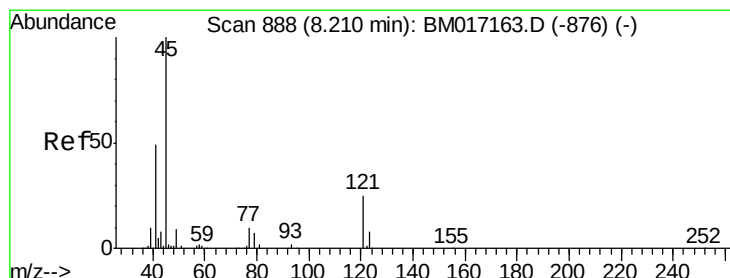
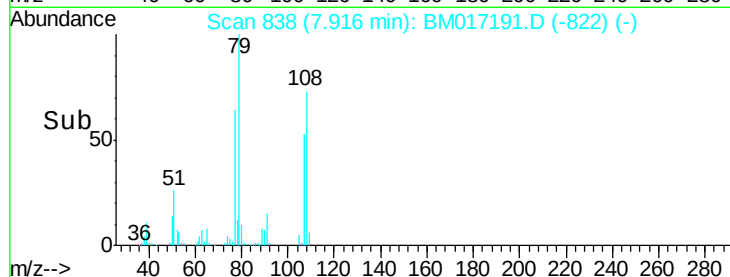
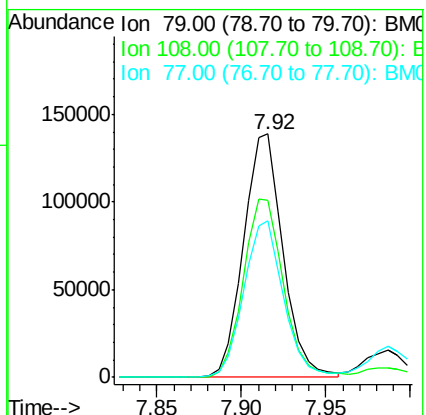
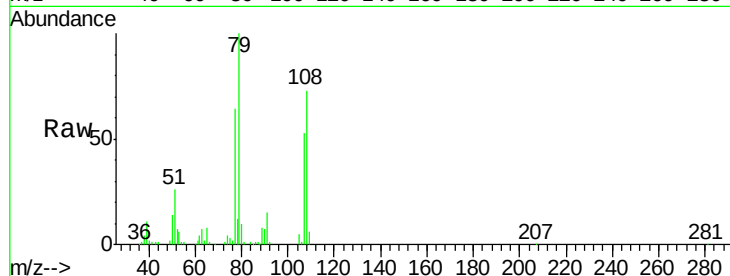
Tgt Ion: 79 Resp: 225555

Ion Ratio Lower Upper

79 100

108 72.7 60.3 90.5

77 64.2 54.8 82.2



#16

2,2'-oxybis(1-chloropropane)

Concen: 17.968 ng

RT: 8.20 min Scan# 886

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

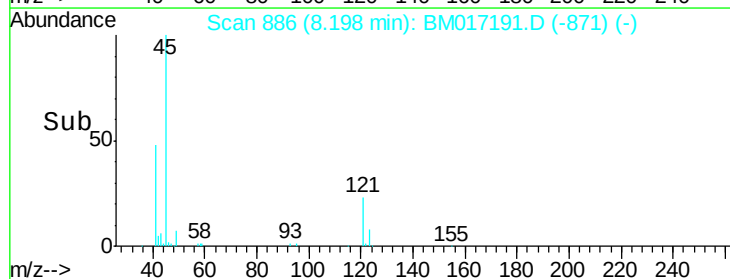
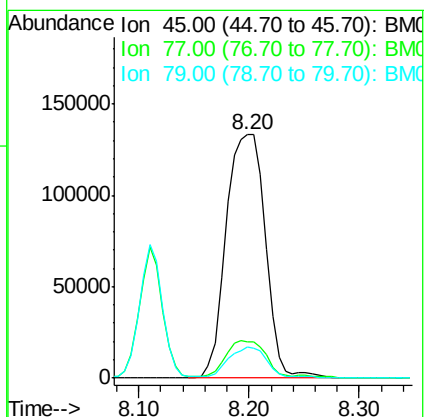
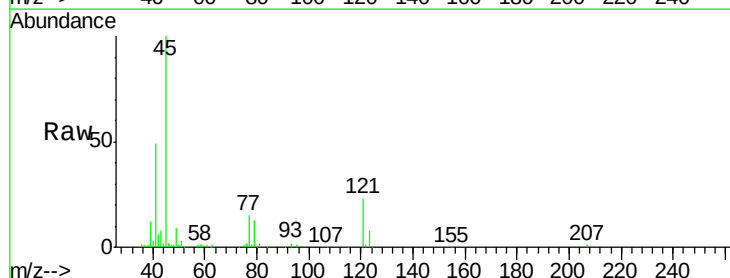
Tgt Ion: 45 Resp: 332456

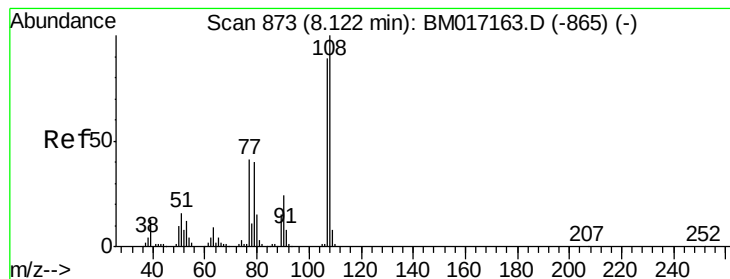
Ion Ratio Lower Upper

45 100

77 15.0 0.0 35.5

79 12.6 0.0 32.1





#17

2-Methylphenol

Concen: 20.420 ng

RT: 8.11 min Scan# 871

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:107 Resp: 217748

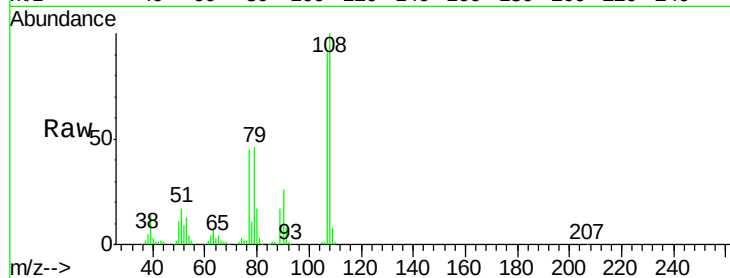
Ion Ratio Lower Upper

107 100

108 109.8 90.3 135.5

77 49.7 37.0 55.4

79 50.4 35.8 53.6

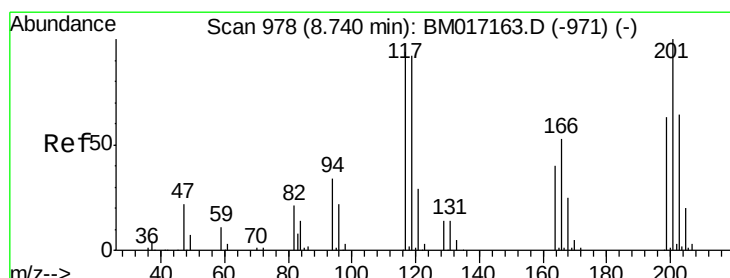
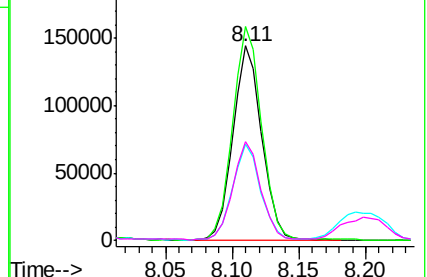
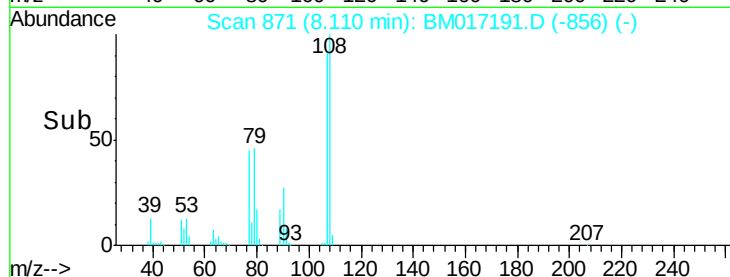


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 79.00 (78.70 to 79.70): BM0



#18

Hexachloroethane

Concen: 19.492 ng

RT: 8.73 min Scan# 977

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

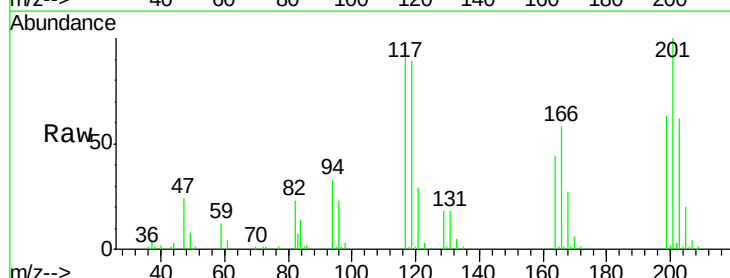
Tgt Ion:117 Resp: 104172

Ion Ratio Lower Upper

117 100

119 94.1 78.2 117.2

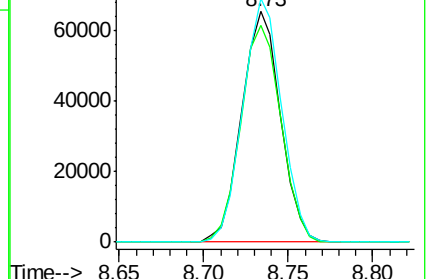
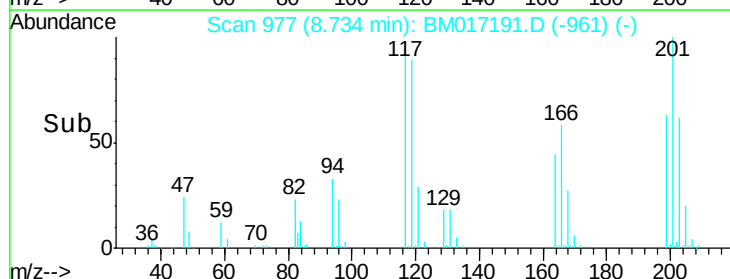
201 105.6 85.3 127.9

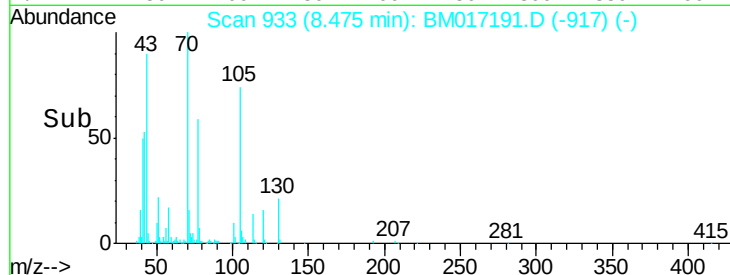
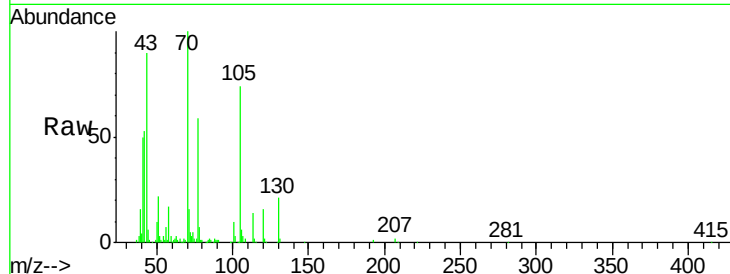
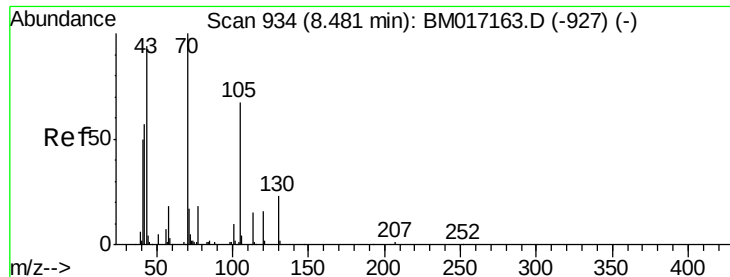


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

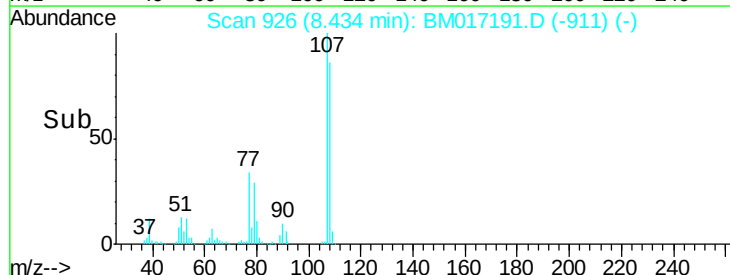
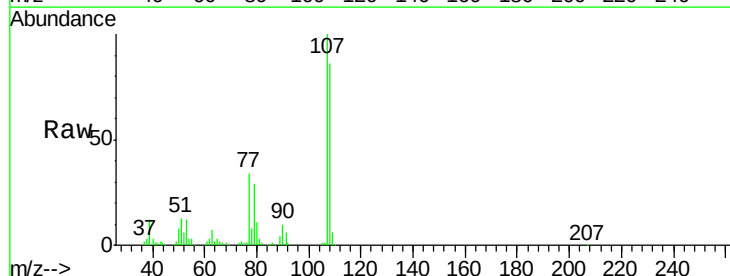
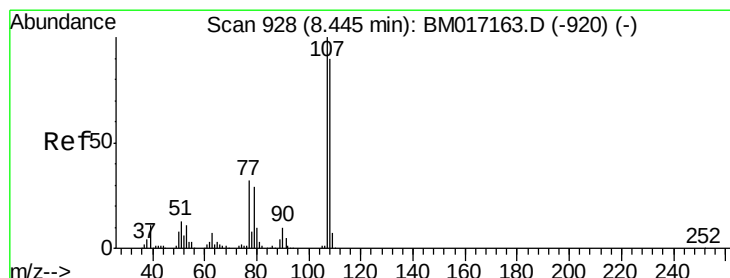
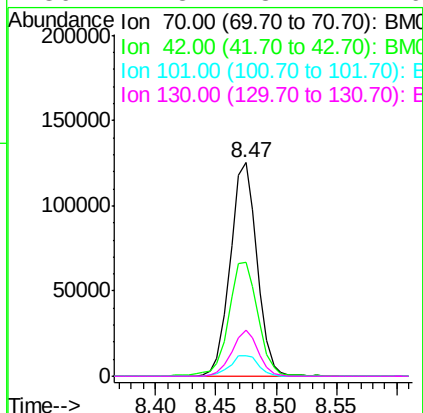




#19
n-Nitroso-di-n-propylamine
Concen: 19.089 ng
RT: 8.47 min Scan# 933
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

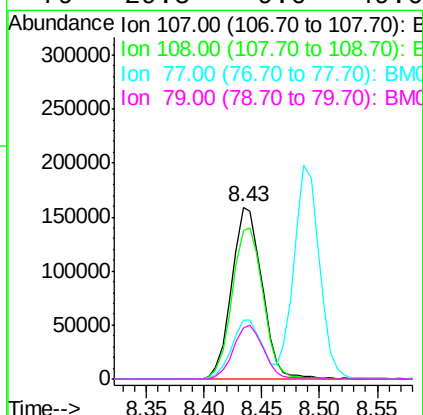
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

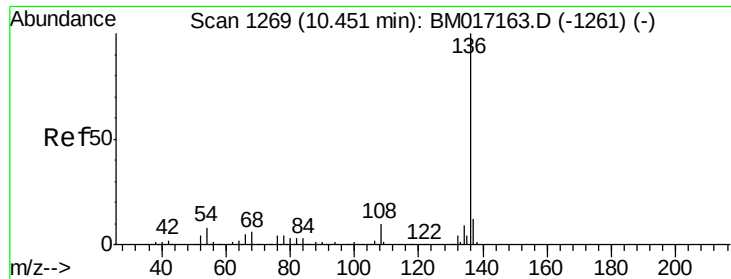
Tgt Ion:	70	Resp:	194021
Ion	Ratio	Lower	Upper
70	100		
42	53.2	46.1	69.1
101	9.7	8.2	12.4
130	21.3	18.4	27.6



#20
3+4-Methylphenols
Concen: 19.979 ng
RT: 8.43 min Scan# 926
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:	107	Resp:	291385
Ion	Ratio	Lower	Upper
107	100		
108	86.2	69.9	109.9
77	33.9	12.2	52.2
79	29.5	9.0	49.0

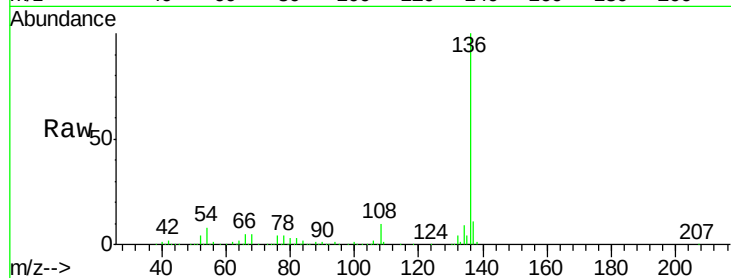




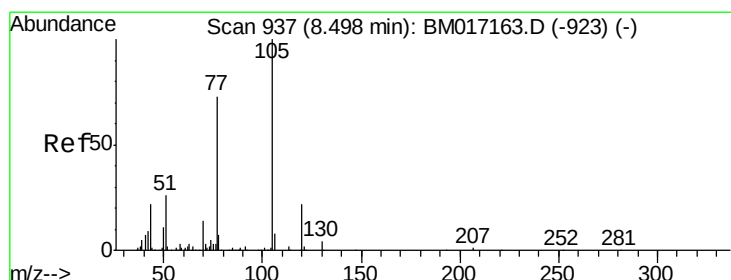
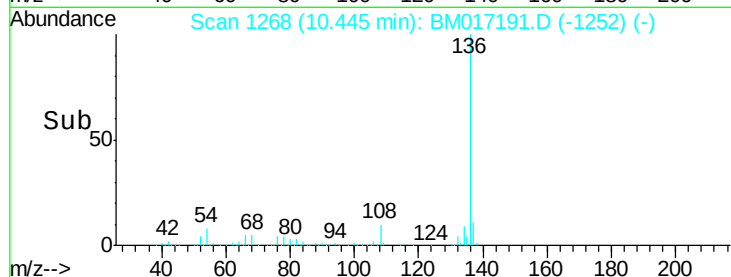
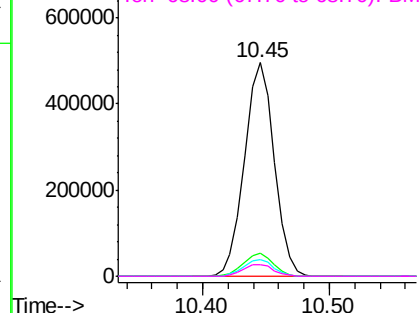
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.45 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:	136	Resp:	808708
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.8	6.7	10.1
68	5.1	4.7	7.1

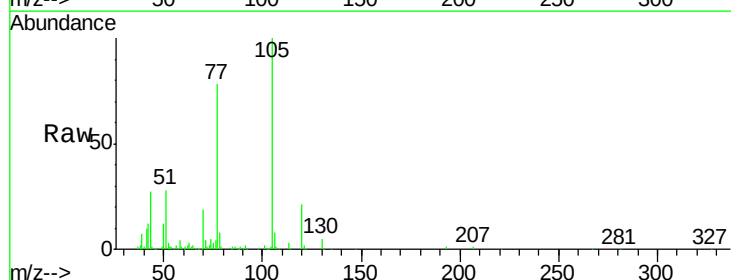


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

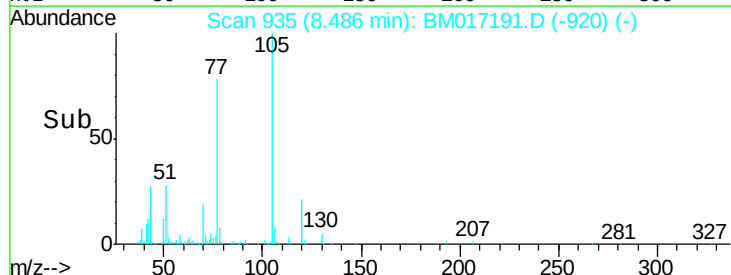
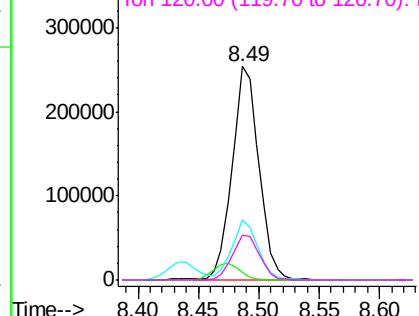


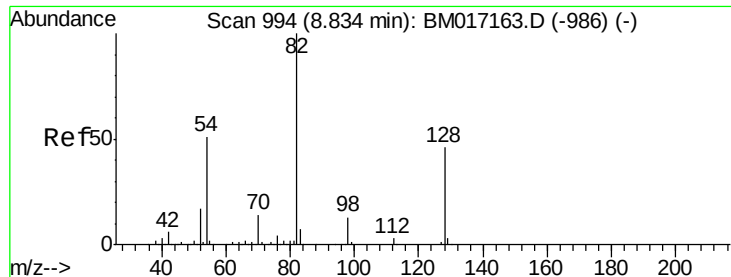
#22
Acetophenone
Concen: 19.030 ng
RT: 8.49 min Scan# 935
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:	105	Resp:	390115
Ion	Ratio	Lower	Upper
105	100		
71	3.5	2.0	3.0#
51	28.0	20.6	31.0
120	20.9	17.5	26.3



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

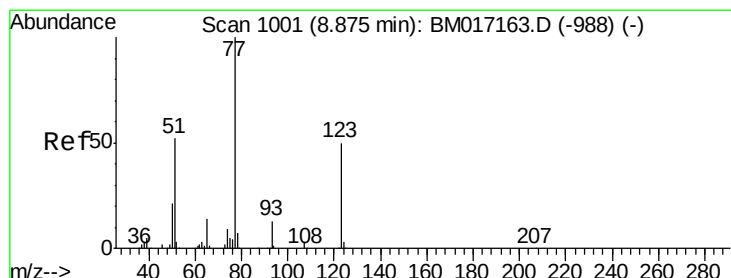
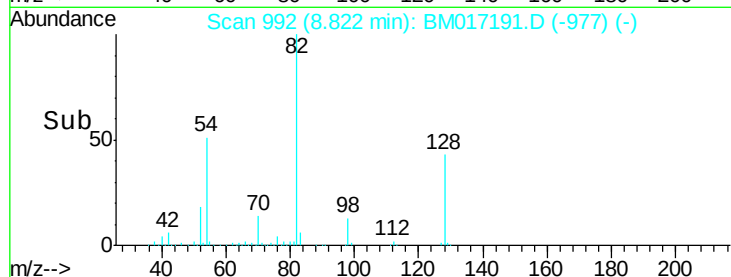
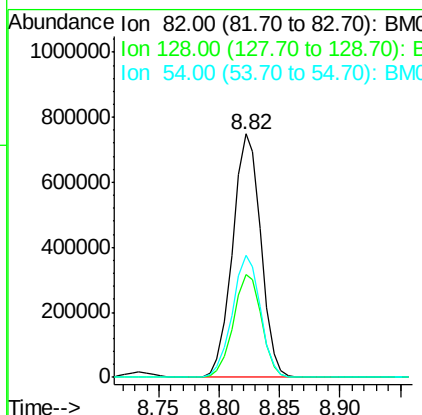
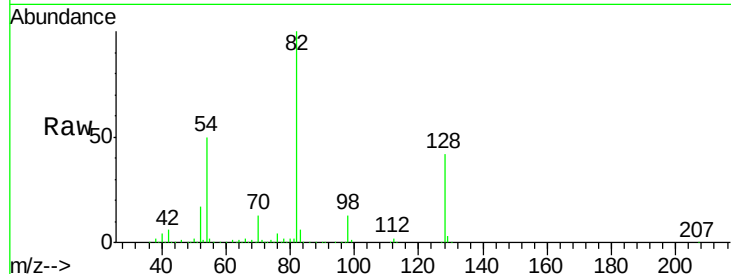




#23
 Nitrobenzene-d5
 Concen: 88.602 ng
 RT: 8.82 min Scan# 992
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

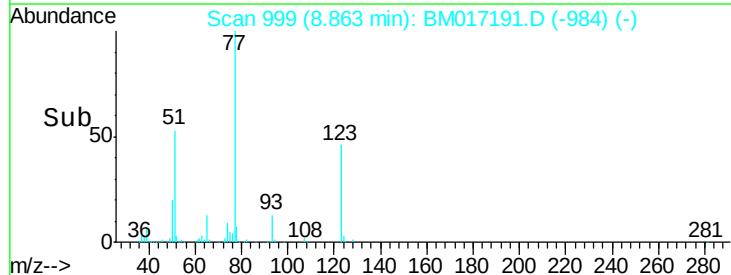
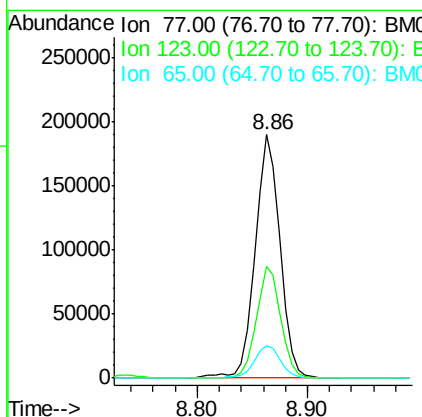
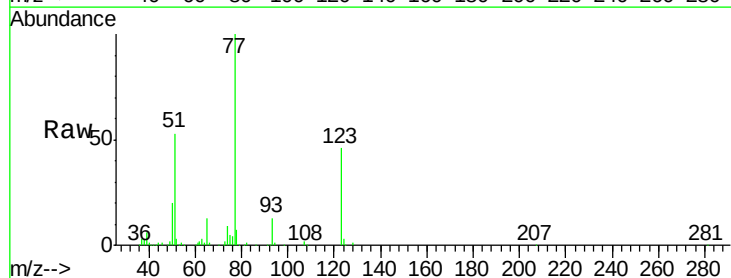
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

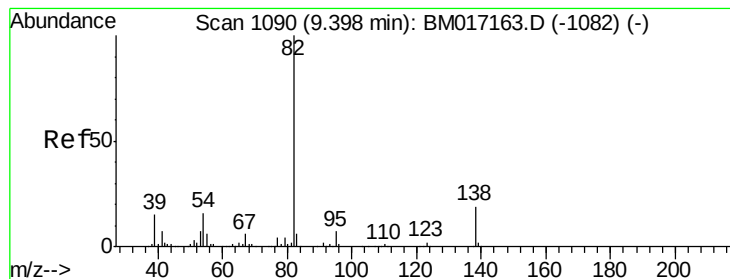
Tgt Ion: 82 Resp: 1225144
 Ion Ratio Lower Upper
 82 100
 128 42.1 37.0 55.6
 54 49.9 40.7 61.1



#24
 Nitrobenzene
 Concen: 20.467 ng
 RT: 8.86 min Scan# 999
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

Tgt Ion: 77 Resp: 299356
 Ion Ratio Lower Upper
 77 100
 123 45.8 40.2 60.4
 65 13.3 11.4 17.0





#25

Isophorone

Concen: 21.904 ng

RT: 9.39 min Scan# 1088

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

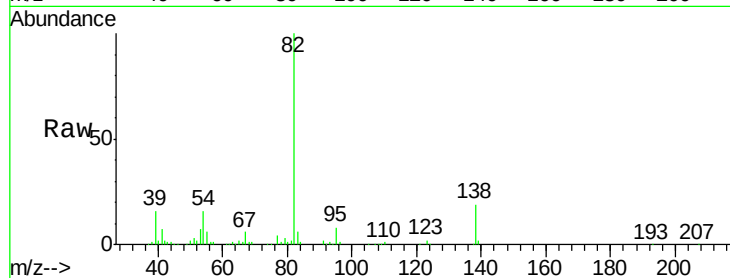
Tgt Ion: 82 Resp: 500126

Ion Ratio Lower Upper

82 100

95 8.0 6.0 9.0

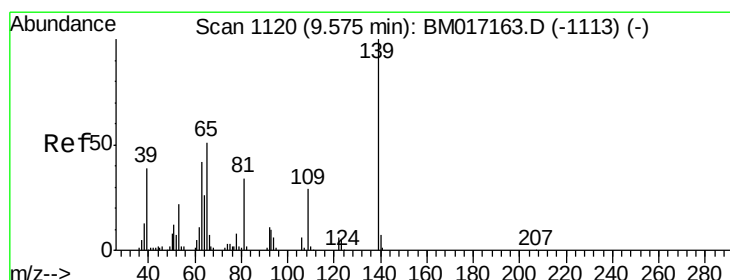
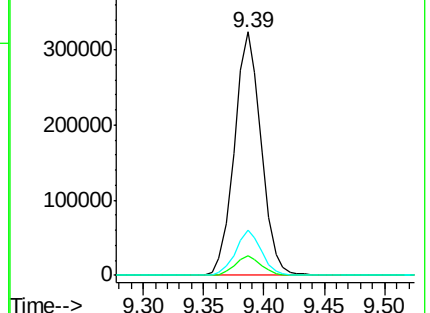
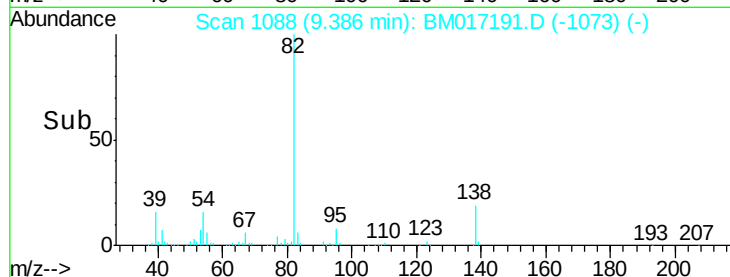
138 18.6 15.4 23.2



Abundance Ion 82.00 (81.70 to 82.70): BM017191.D (-1073) (-)

Ion 95.00 (94.70 to 95.70): BM017191.D (-1073) (-)

Ion 138.00 (137.70 to 138.70): BM017191.D (-1073) (-)



#26

2-Nitrophenol

Concen: 22.088 ng

RT: 9.57 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

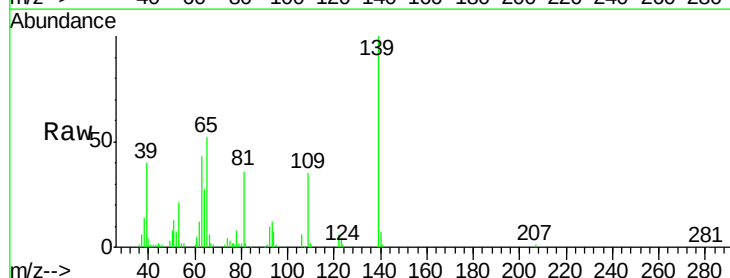
Tgt Ion: 139 Resp: 127279

Ion Ratio Lower Upper

139 100

109 34.7 23.2 34.8

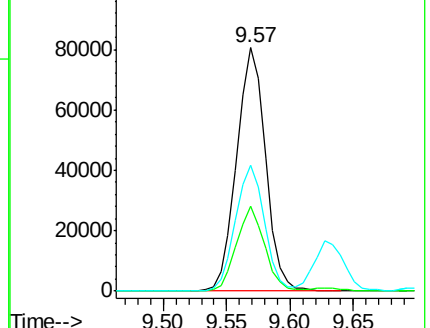
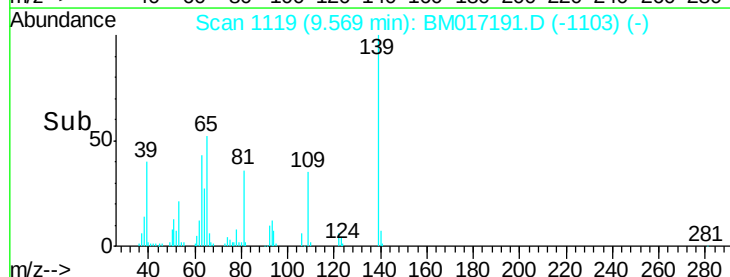
65 51.8 40.6 61.0

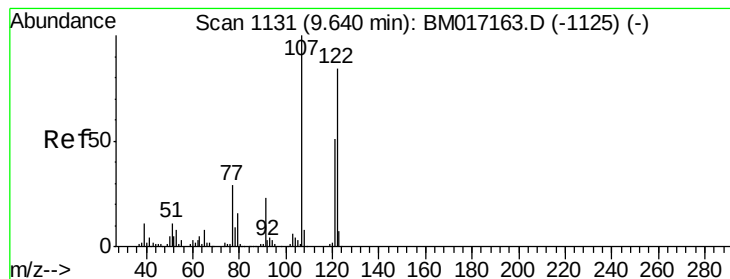


Abundance Ion 139.00 (138.70 to 139.70): BM017191.D (-1103) (-)

Ion 109.00 (108.70 to 109.70): BM017191.D (-1103) (-)

Ion 65.00 (64.70 to 65.70): BM017191.D (-1103) (-)





#27

2,4-Dimethylphenol

Concen: 23.650 ng

RT: 9.63 min Scan# 1130

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

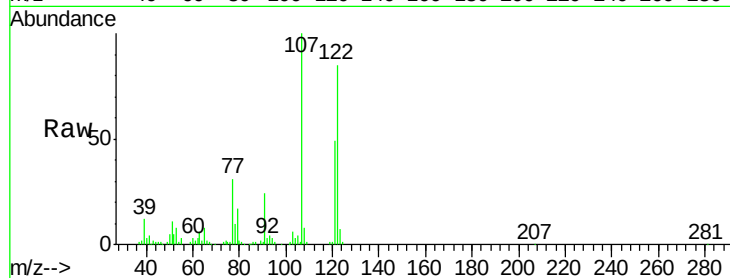
Tgt Ion:122 Resp: 238777

Ion Ratio Lower Upper

122 100

107 117.9 95.0 142.6

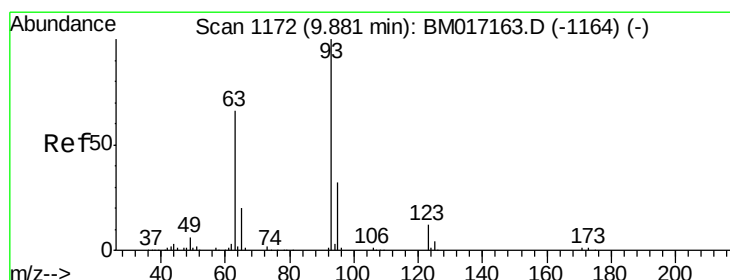
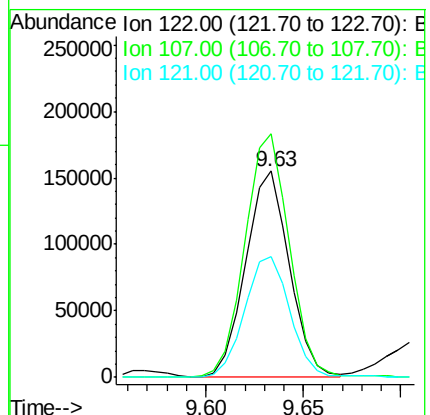
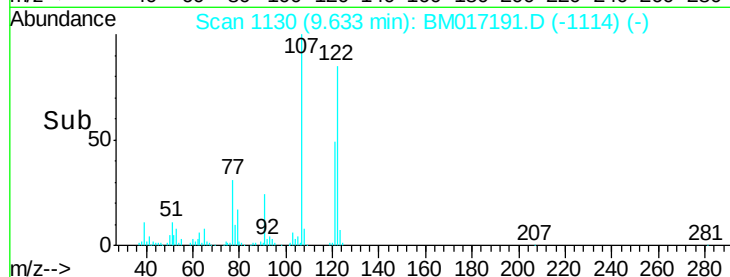
121 58.3 48.2 72.4



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: 20.130 ng

RT: 9.87 min Scan# 1170

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

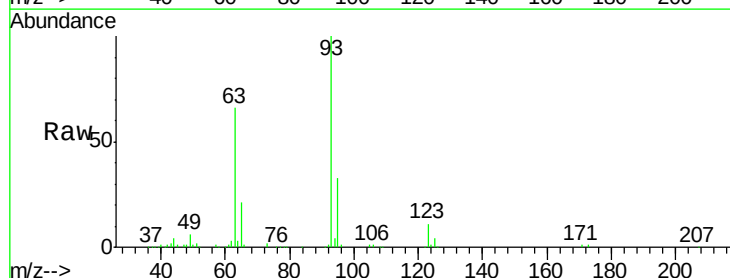
Tgt Ion: 93 Resp: 323513

Ion Ratio Lower Upper

93 100

95 32.7 25.7 38.5

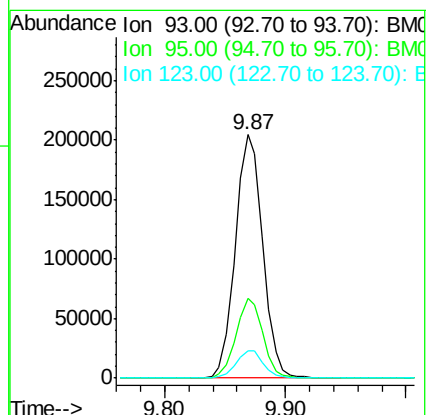
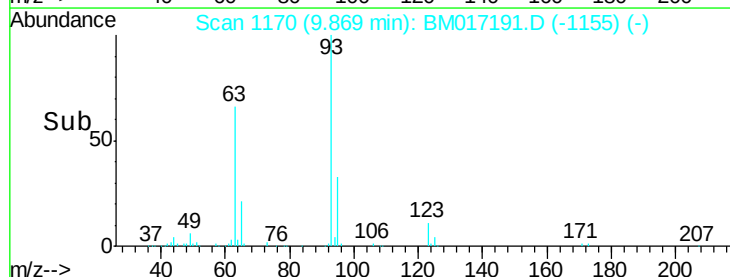
123 11.3 9.4 14.0

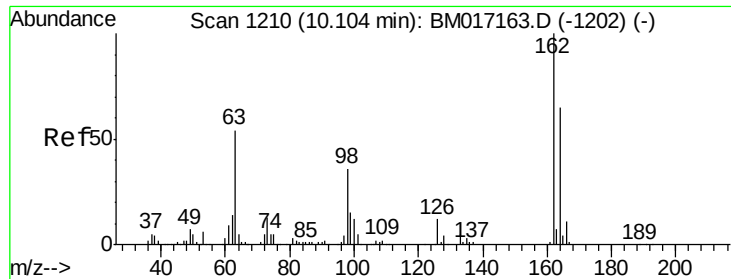


Abundance Ion 93.00 (92.70 to 93.70): BM0

Ion 95.00 (94.70 to 95.70): BM0

Ion 123.00 (122.70 to 123.70): E

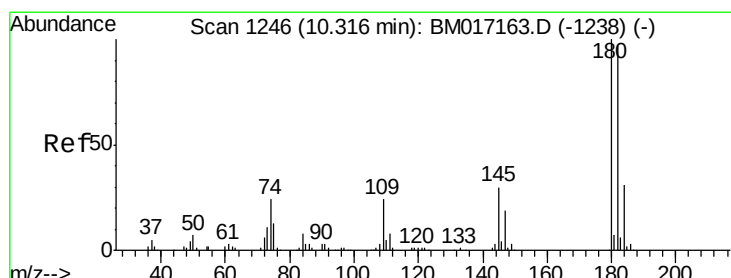
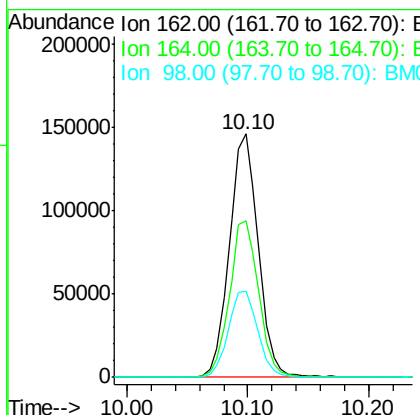
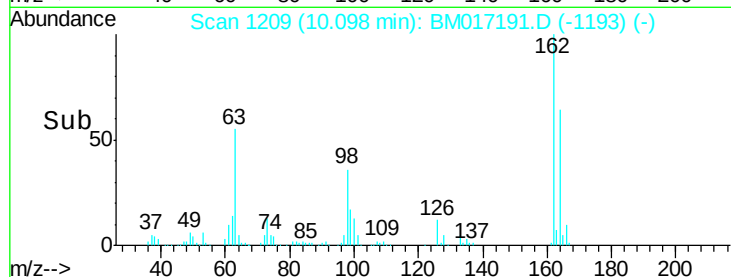
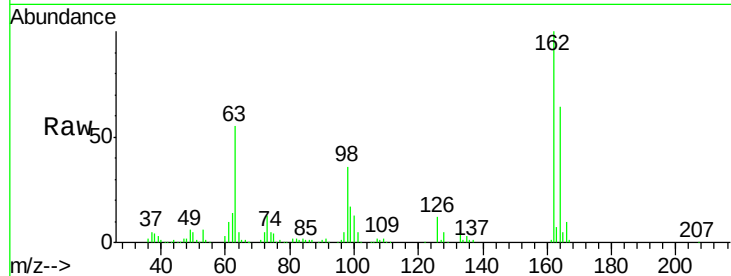




#29
2,4-Dichlorophenol
Concen: 20.743 ng
RT: 10.10 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

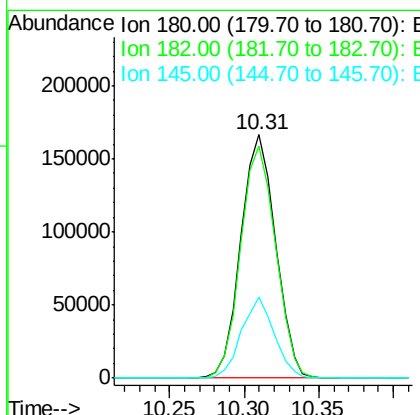
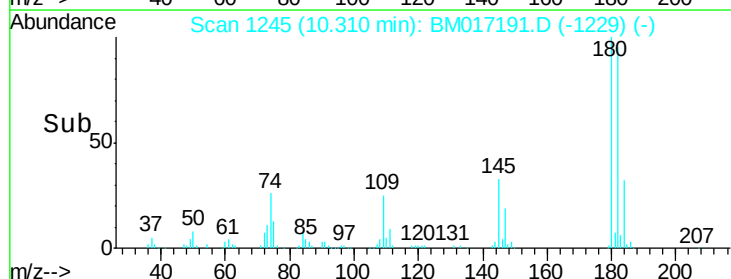
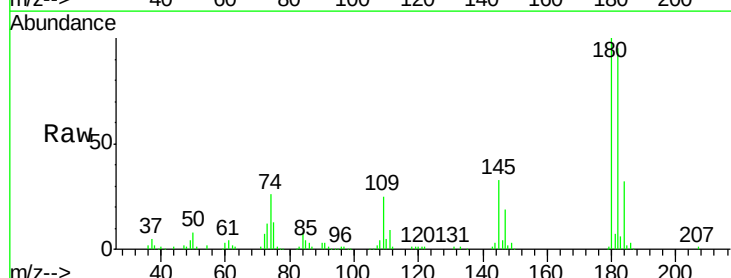
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

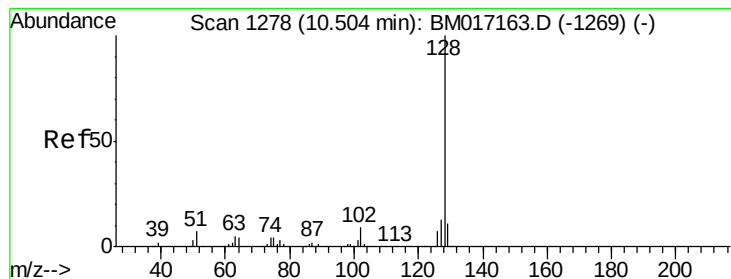
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.9	84.9
98	35.6	15.8	55.8



#30
1,2,4-Trichlorobenzene
Concen: 19.151 ng
RT: 10.31 min Scan# 1245
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.5	116.3
145	33.3	24.0	36.0





#31

Naphthalene

Concen: 20.545 ng

RT: 10.49 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

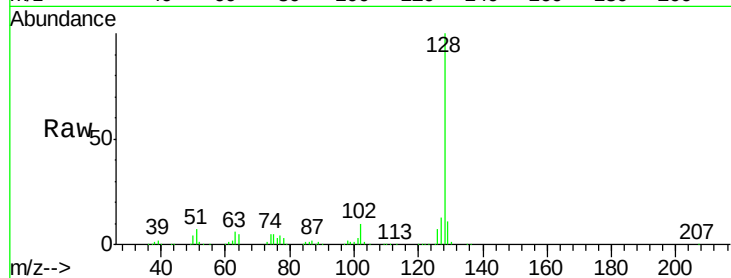
Tgt Ion:128 Resp: 814230

Ion Ratio Lower Upper

128 100

129 11.4 8.5 12.7

127 12.9 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

600000

500000

400000

300000

200000

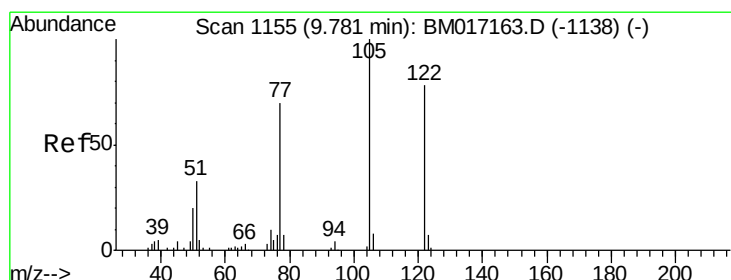
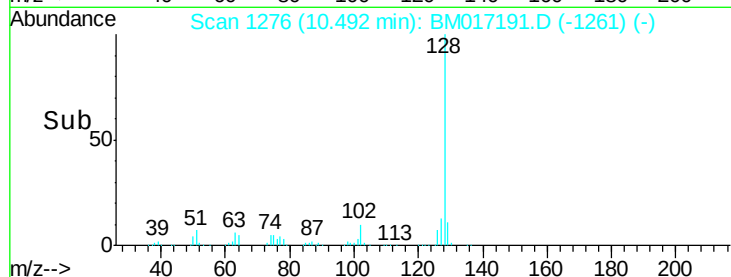
100000

0

10.49

10.40 10.45 10.50 10.55

Time-->



#32

Benzoic acid

Concen: 17.571 ng

RT: 9.73 min Scan# 1147

Delta R.T. -0.05 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

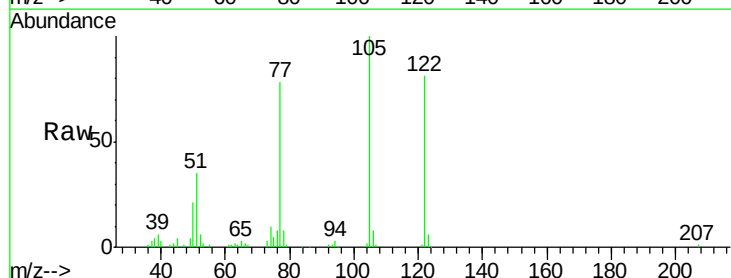
Tgt Ion:122 Resp: 132365

Ion Ratio Lower Upper

122 100

105 123.6 102.0 142.0

77 95.9 67.7 107.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM

200000

150000

100000

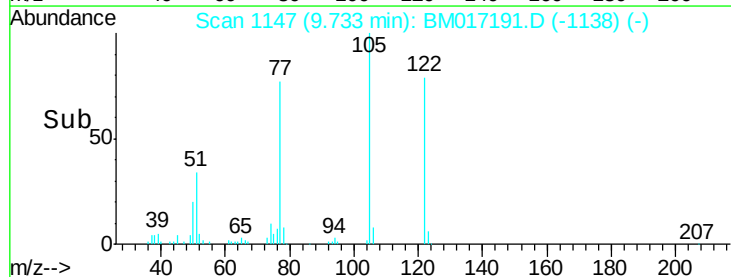
50000

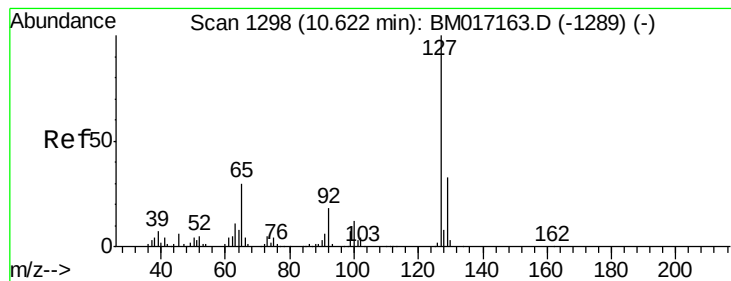
0

9.73

9.65 9.70 9.75 9.80 9.85

Time-->





#33

4-Chloroaniline

Concen: 12.558 ng

RT: 10.62 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:127 Resp: 214950

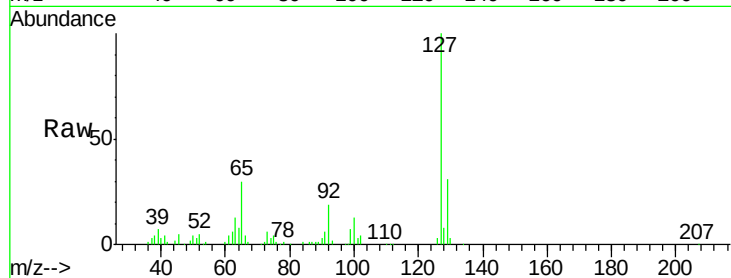
Ion Ratio Lower Upper

127 100

129 30.7 26.2 39.4

65 29.9 23.7 35.5

92 19.1 14.3 21.5

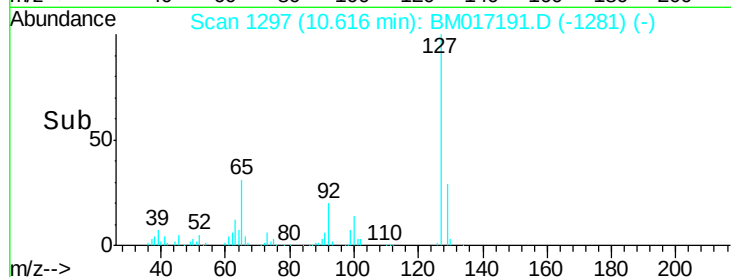


Abundance Ion 127.00 (126.70 to 127.70): E

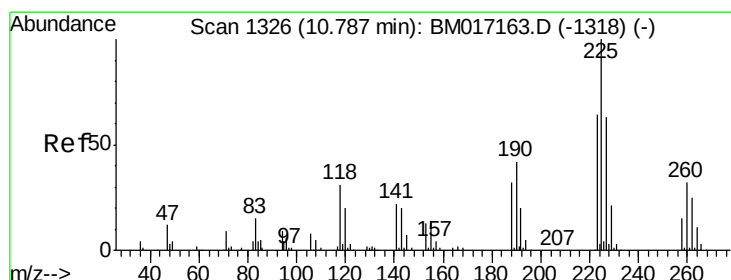
Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BM

Ion 92.00 (91.70 to 92.70): BM



Time-->



#34

Hexachlorobutadiene

Concen: 18.887 ng

RT: 10.77 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

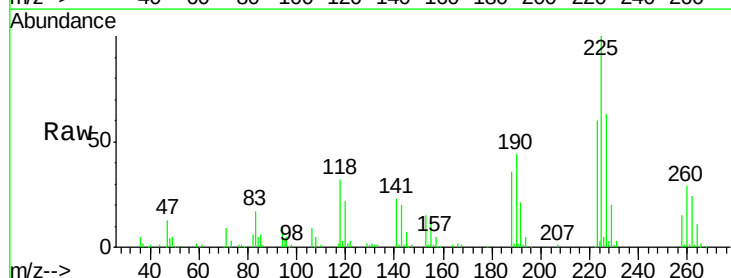
Tgt Ion:225 Resp: 168284

Ion Ratio Lower Upper

225 100

223 60.4 51.0 76.6

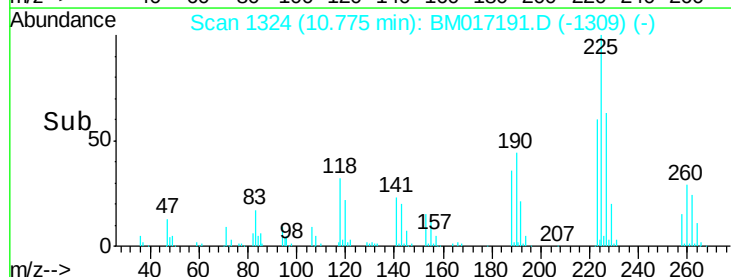
227 62.7 50.8 76.2



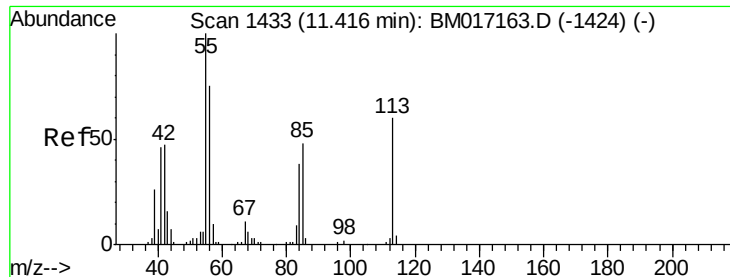
Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



Time-->



#35

Caprolactam

Concen: 16.878 ng

RT: 11.39 min Scan# 1429

Delta R.T. -0.02 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

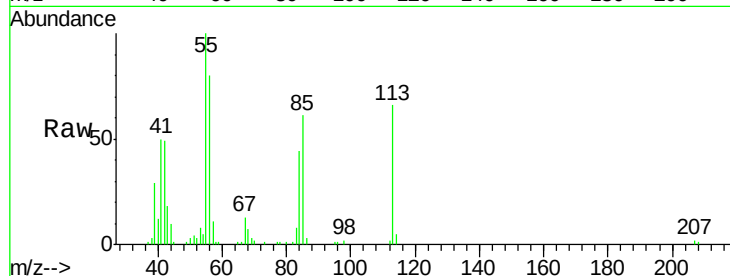
Tgt Ion:113 Resp: 72104

Ion Ratio Lower Upper

113 100

55 151.0 147.0 187.0

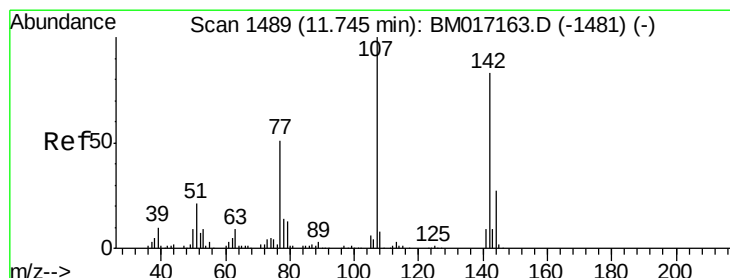
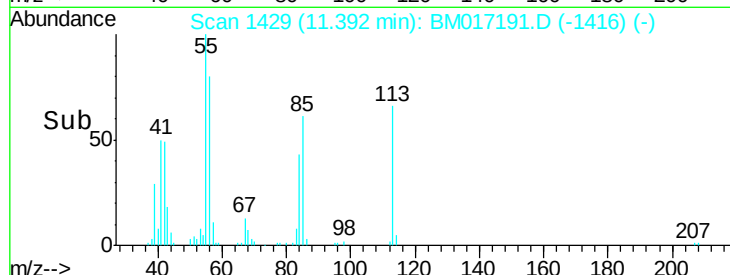
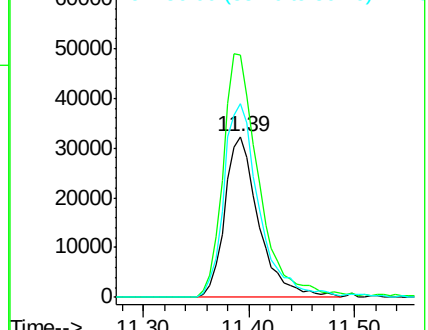
56 120.3 104.5 144.5



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#36

4-Chloro-3-methylphenol

Concen: 19.966 ng

RT: 11.74 min Scan# 1488

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

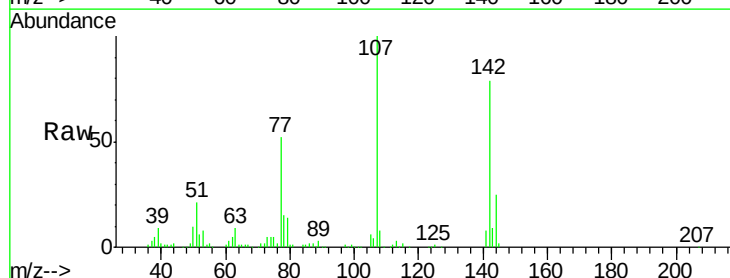
Tgt Ion:107 Resp: 263830

Ion Ratio Lower Upper

107 100

144 25.1 21.6 32.4

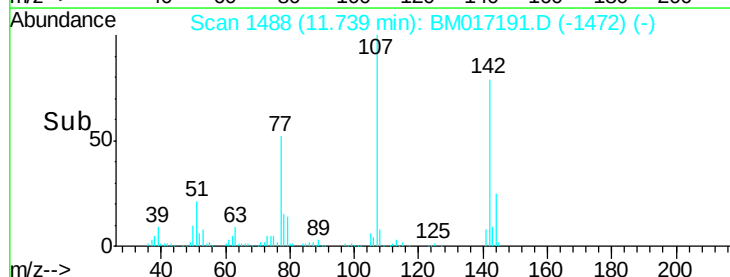
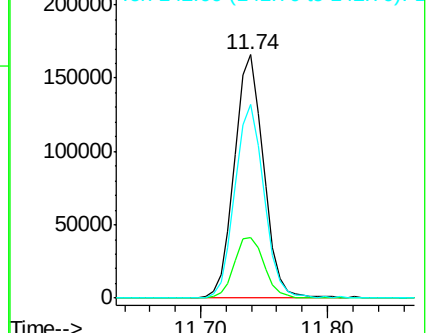
142 79.4 66.0 99.0

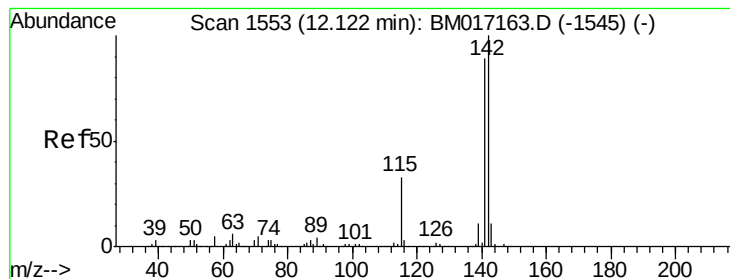


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 22.070 ng

RT: 12.11 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

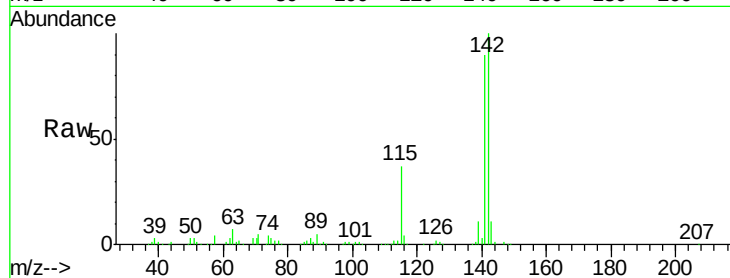
Tgt Ion:142 Resp: 598543

Ion Ratio Lower Upper

142 100

141 89.8 70.9 106.3

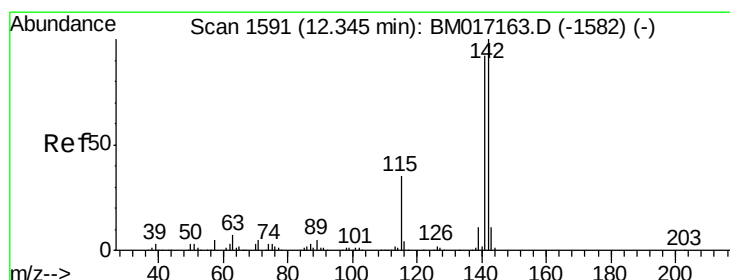
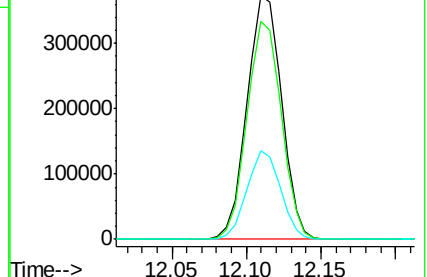
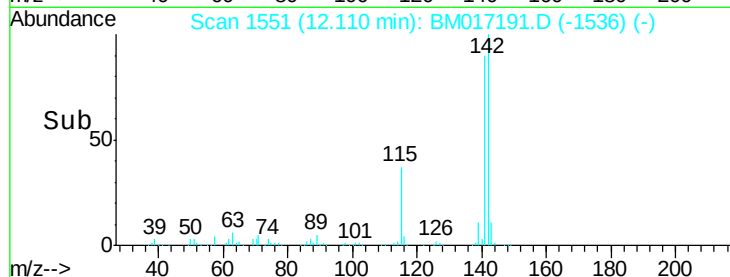
115 36.7 26.4 39.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 21.588 ng

RT: 12.33 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

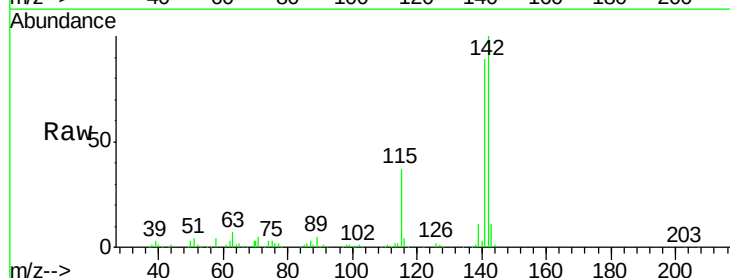
Tgt Ion:142 Resp: 569824

Ion Ratio Lower Upper

142 100

141 89.1 73.8 110.6

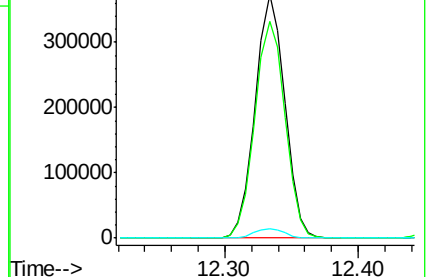
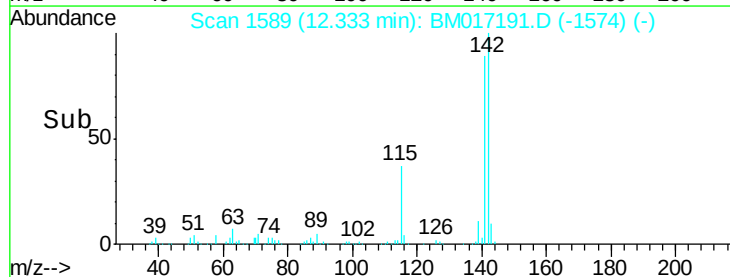
116 3.9 2.9 4.3

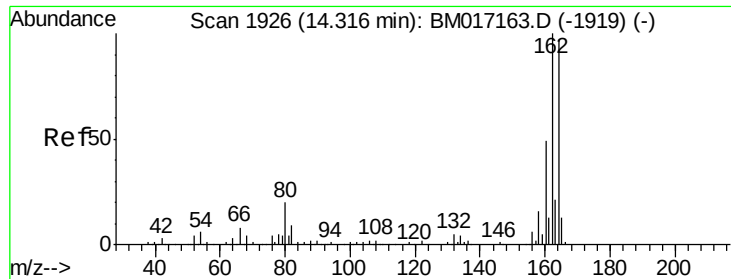


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.31 min Scan# 1925

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

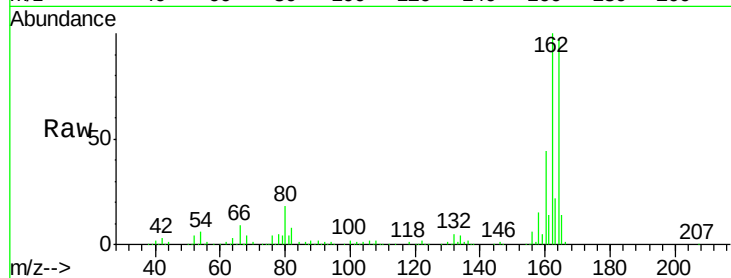
Tgt Ion:164 Resp: 457072

Ion Ratio Lower Upper

164 100

162 102.9 82.1 123.1

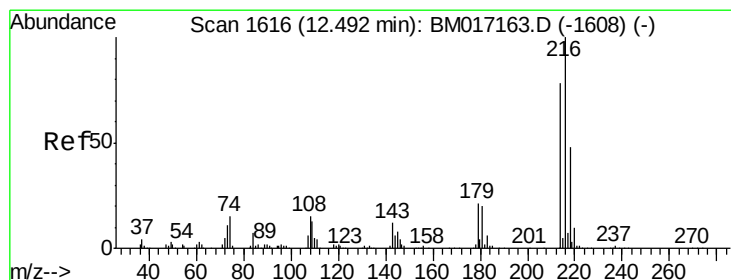
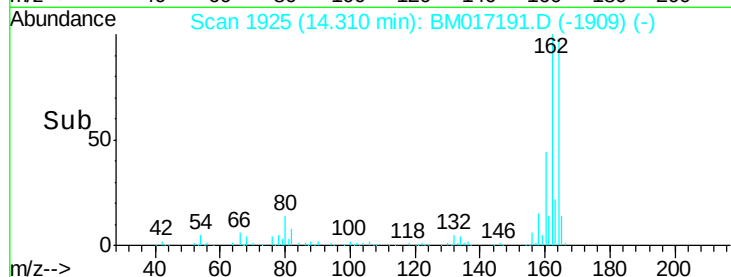
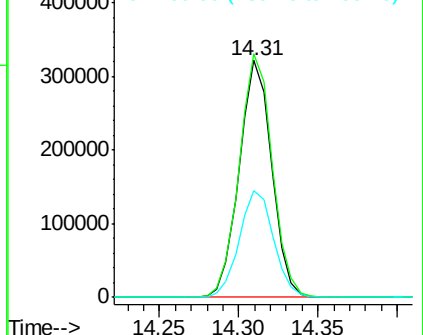
160 45.1 40.2 60.2



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



#40

1,2,4,5-Tetrachlorobenzene

Concen: 19.036 ng

RT: 12.49 min Scan# 1615

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Tgt Ion:216 Resp: 306408

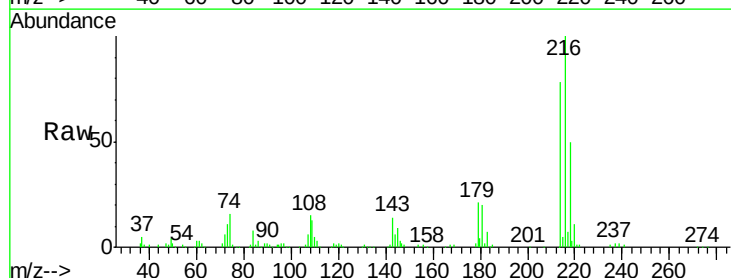
Ion Ratio Lower Upper

216 100

214 77.1 62.6 93.8

179 21.3 16.6 24.8

108 17.7 13.5 20.3

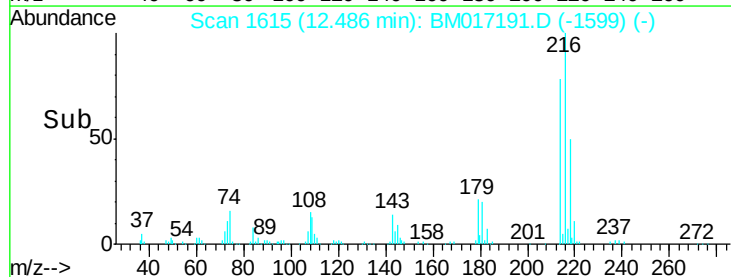
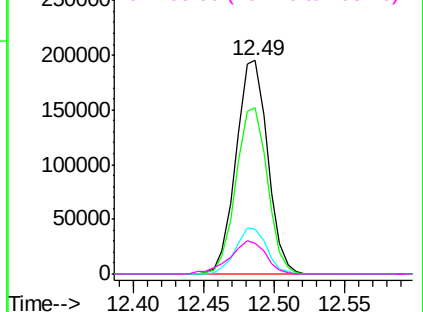


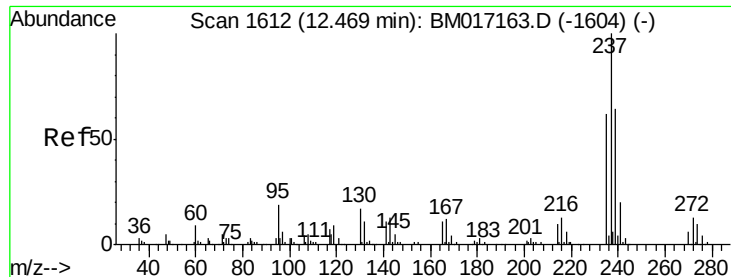
Abundance Ion 216.00 (215.70 to 216.70): E

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

Hexachlorocyclopentadiene

Concen: 26.068 ng

RT: 12.46 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

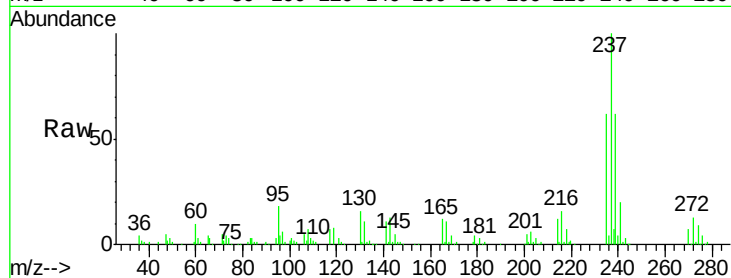
Tgt Ion:237 Resp: 202852

Ion Ratio Lower Upper

237 100

235 62.4 42.4 82.4

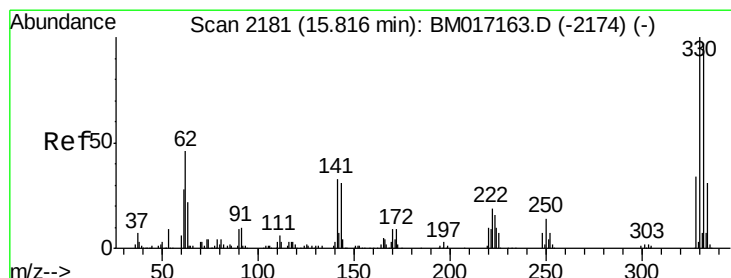
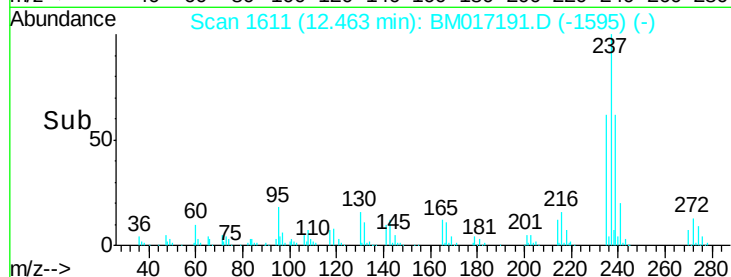
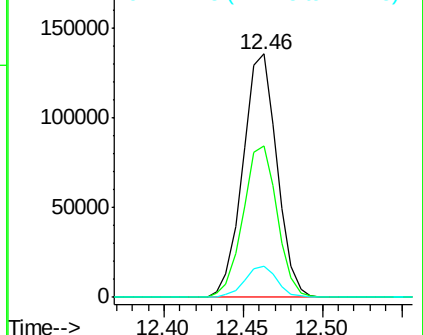
272 13.0 0.0 33.0



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 150.176 ng

RT: 15.80 min Scan# 2179

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

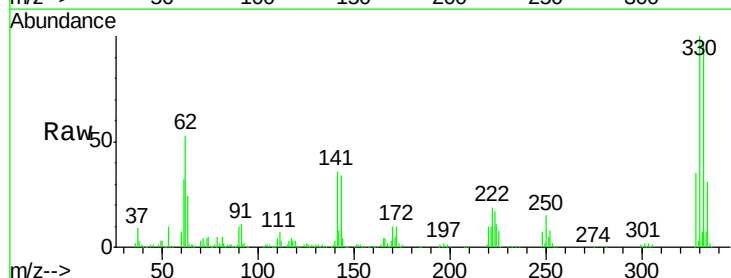
Tgt Ion:330 Resp: 928274

Ion Ratio Lower Upper

330 100

332 97.3 77.3 115.9

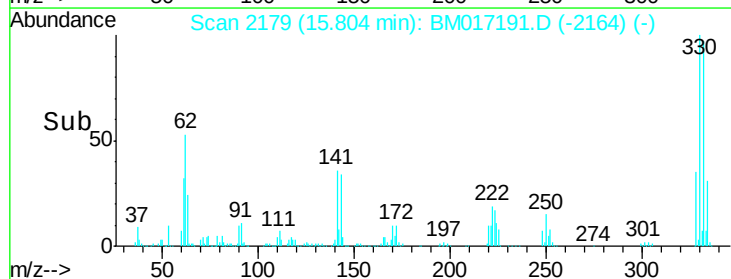
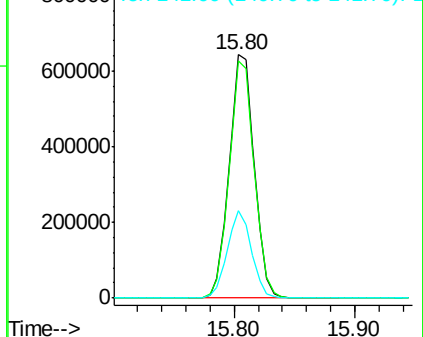
141 34.5 27.4 41.0

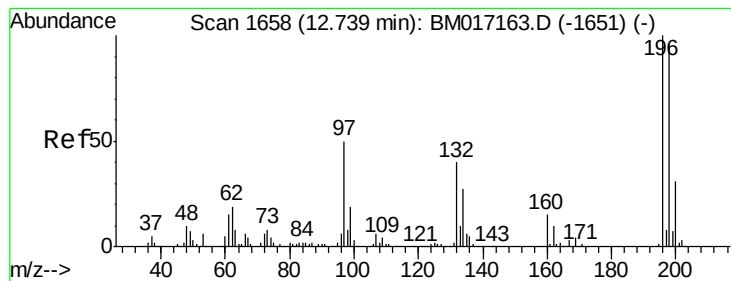


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#43

2,4,6-Trichlorophenol

Concen: 20.621 ng

RT: 12.73 min Scan# 1657

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

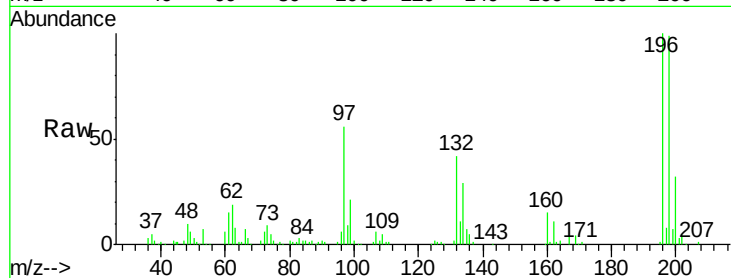
Tgt Ion:196 Resp: 192685

Ion Ratio Lower Upper

196 100

198 98.7 77.1 115.7

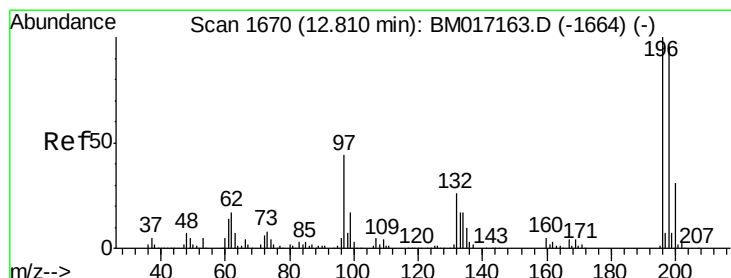
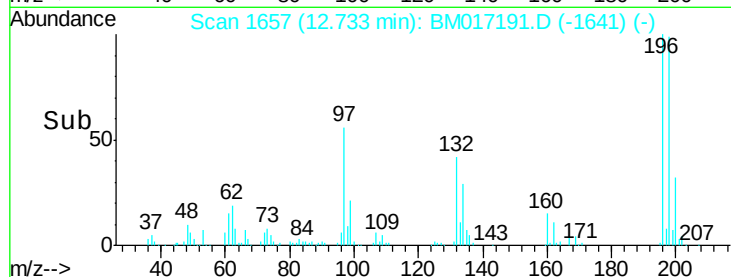
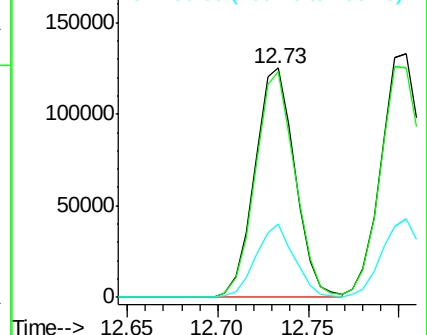
200 32.1 25.0 37.4



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: 20.916 ng

RT: 12.80 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Tgt Ion:196 Resp: 209574

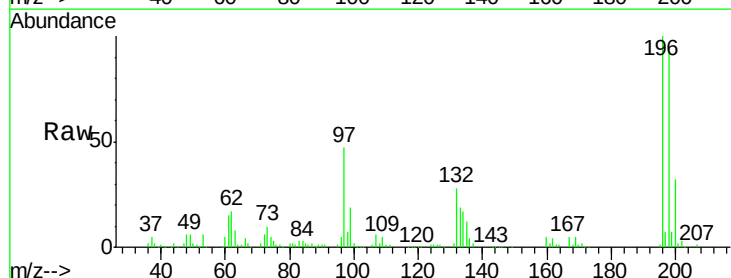
Ion Ratio Lower Upper

196 100

198 94.3 76.6 115.0

97 47.0 35.5 53.3

132 28.4 20.7 31.1

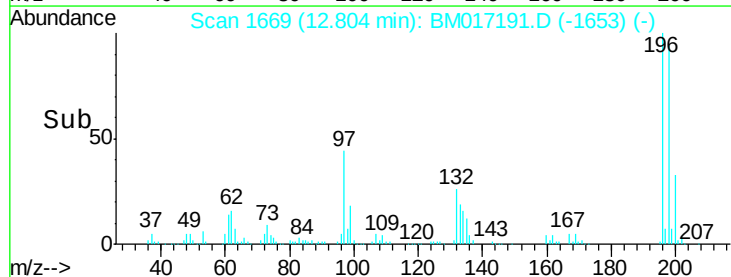
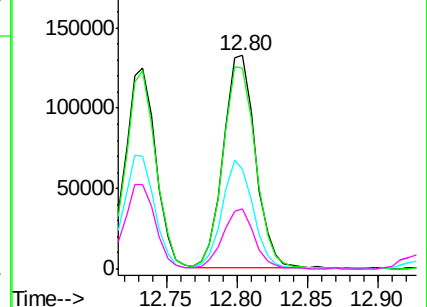


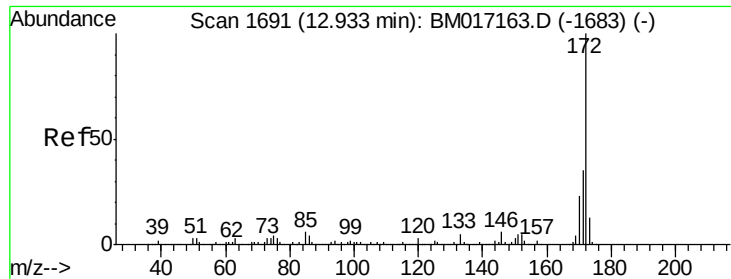
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM

Ion 132.00 (131.70 to 132.70): E

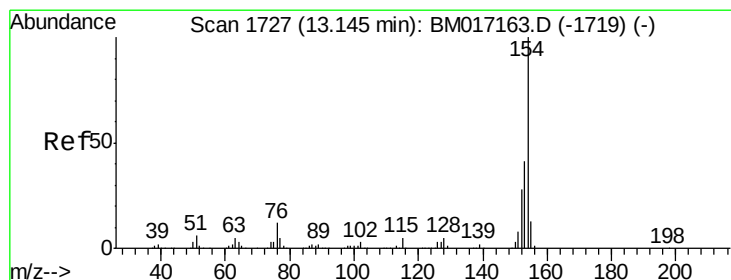
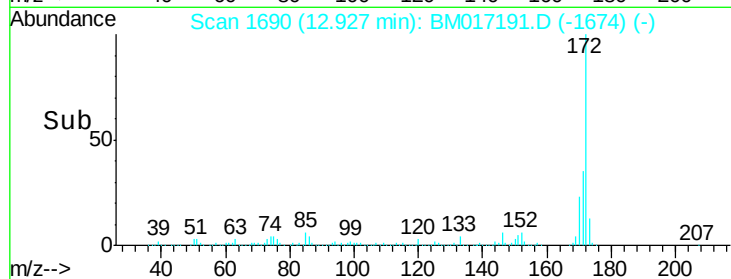
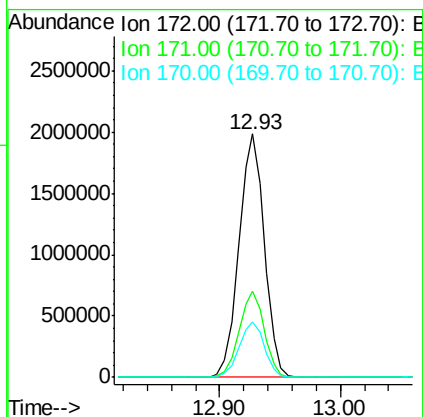
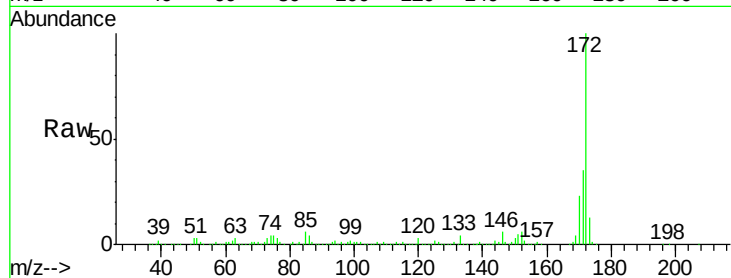




#45
 2-Fluorobiphenyl
 Concen: 84.360 ng
 RT: 12.93 min Scan# 1690
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

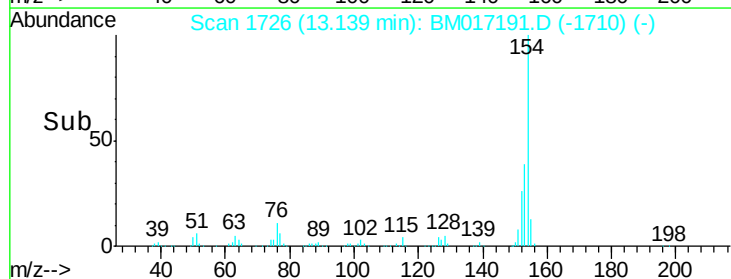
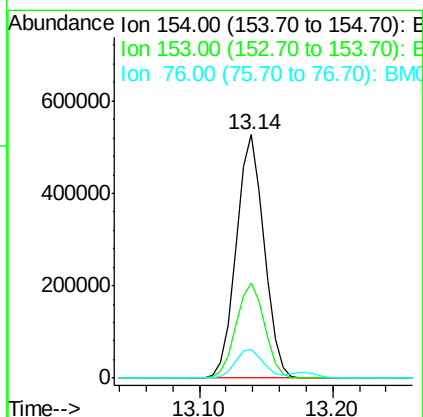
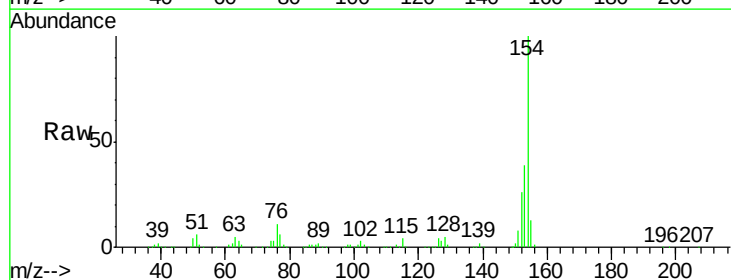
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

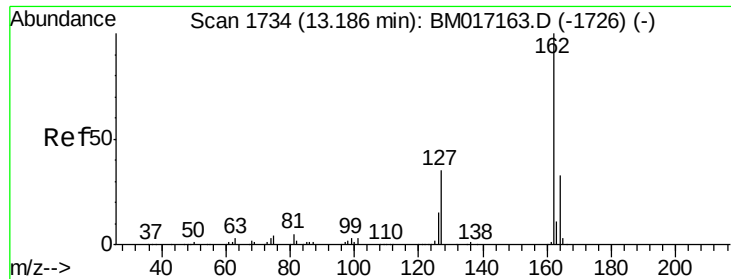
Tgt Ion:172 Resp: 2897952
 Ion Ratio Lower Upper
 172 100
 171 35.5 28.3 42.5
 170 23.0 18.3 27.5



#46
 1,1'-Biphenyl
 Concen: 18.486 ng
 RT: 13.14 min Scan# 1726
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

Tgt Ion:154 Resp: 760381
 Ion Ratio Lower Upper
 154 100
 153 39.2 20.5 60.5
 76 11.5 0.0 31.8

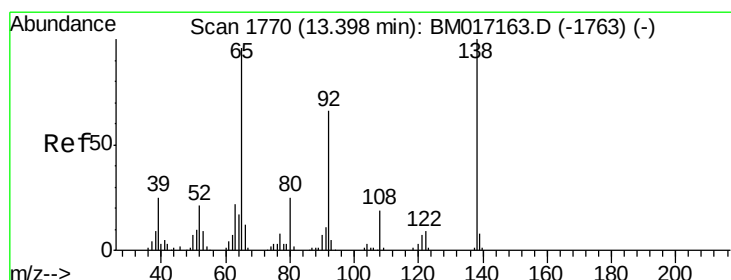
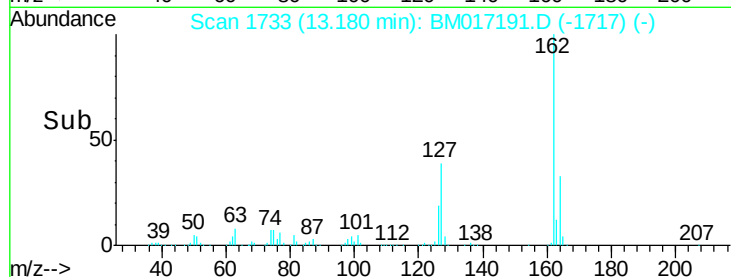
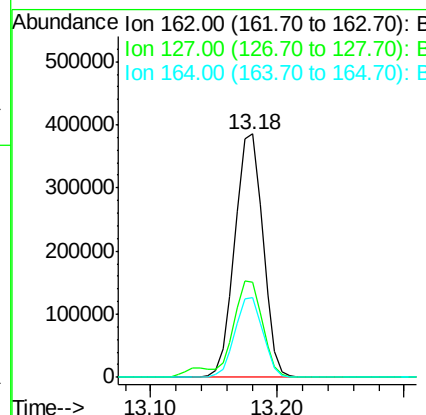
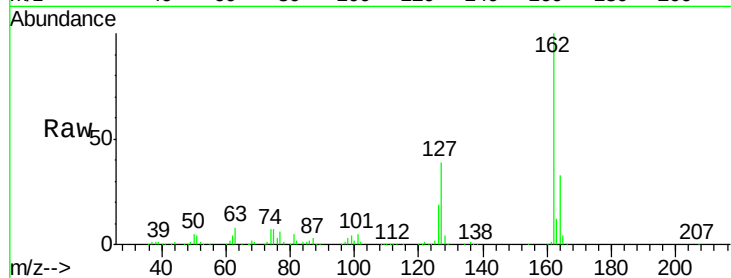




#47
2-Chloronaphthalene
Concen: 19.529 ng
RT: 13.18 min Scan# 1733
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

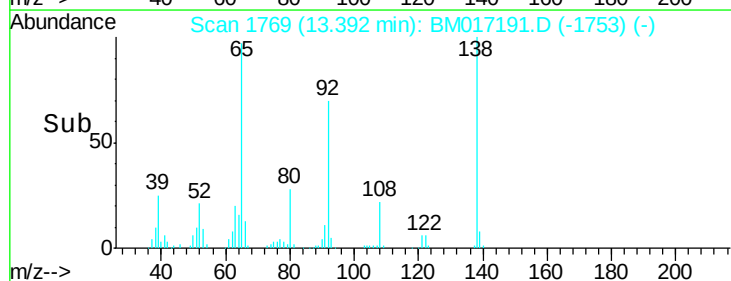
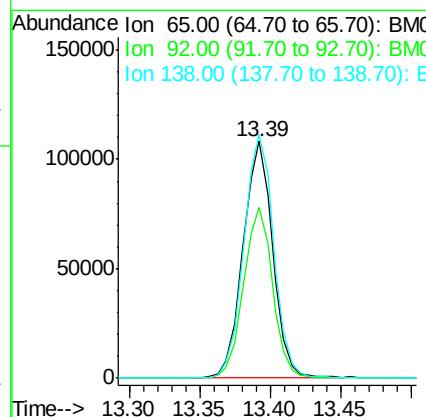
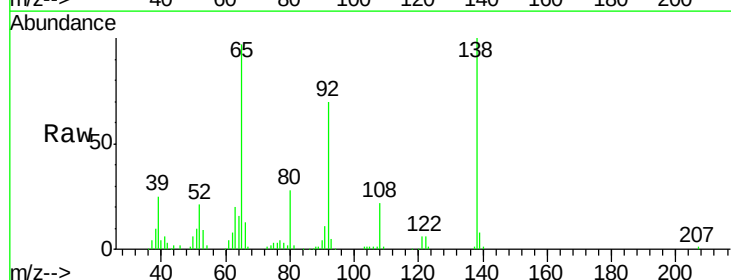
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

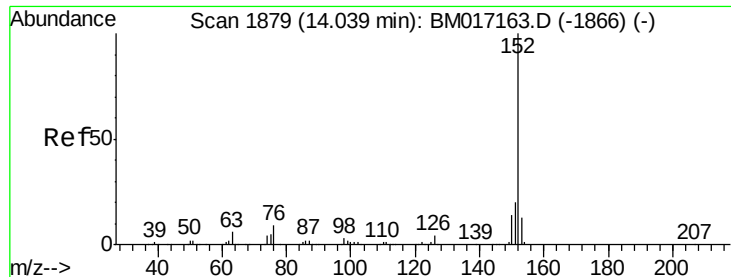
Tgt Ion: 162 Resp: 590945
Ion Ratio Lower Upper
162 100
127 39.3 31.0 46.4
164 32.7 26.6 39.8



#48
2-Nitroaniline
Concen: 22.056 ng
RT: 13.39 min Scan# 1769
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion: 65 Resp: 158736
Ion Ratio Lower Upper
65 100
92 72.1 54.9 82.3
138 102.8 83.7 125.5





#49

Acenaphthylene

Concen: 21.815 ng

RT: 14.03 min Scan# 1878

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

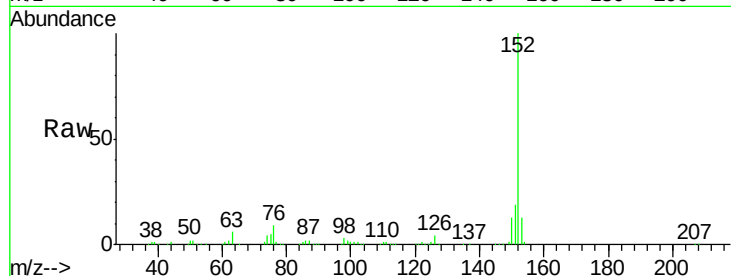
Tgt Ion:152 Resp: 956838

Ion Ratio Lower Upper

152 100

151 18.8 16.0 24.0

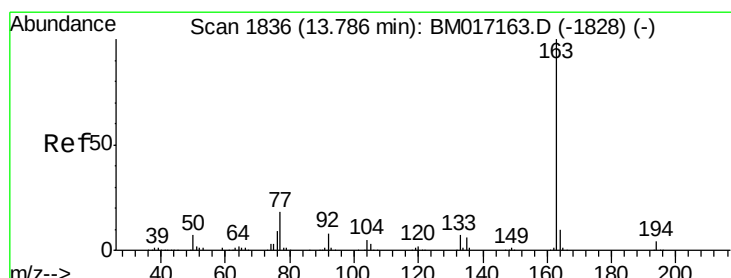
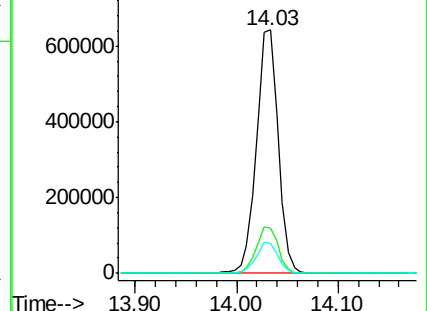
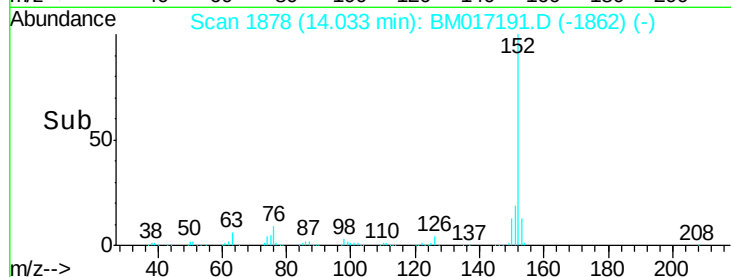
153 12.5 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 21.116 ng

RT: 13.77 min Scan# 1834

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

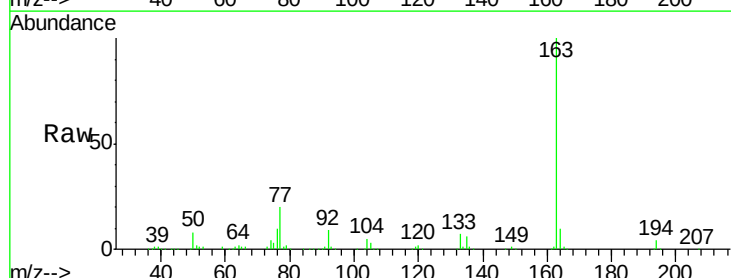
Tgt Ion:163 Resp: 744609

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

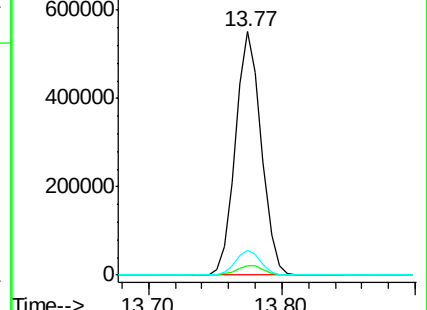
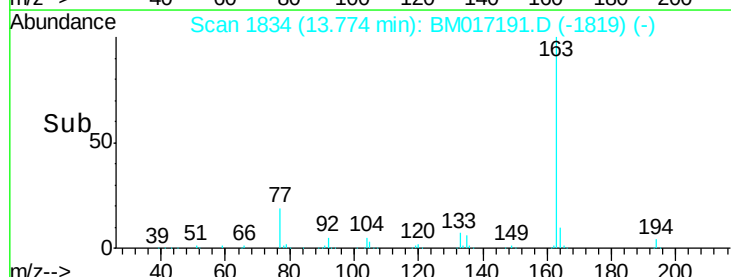
164 10.2 7.8 11.8

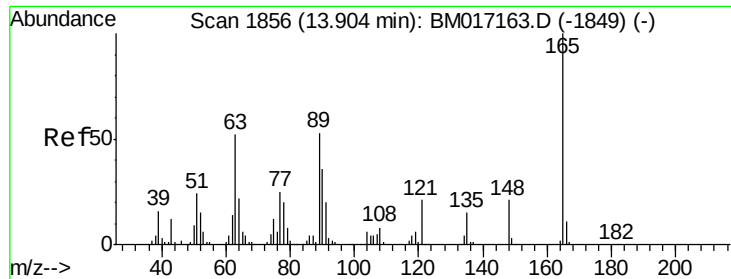


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 20.108 ng

RT: 13.89 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

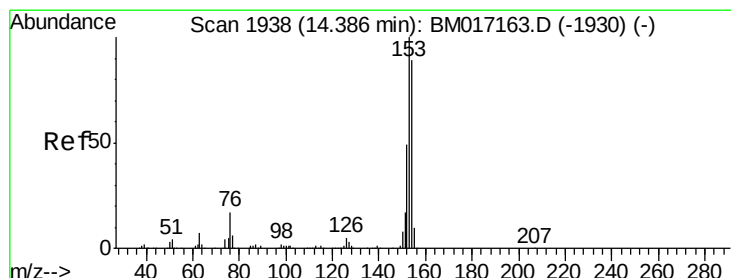
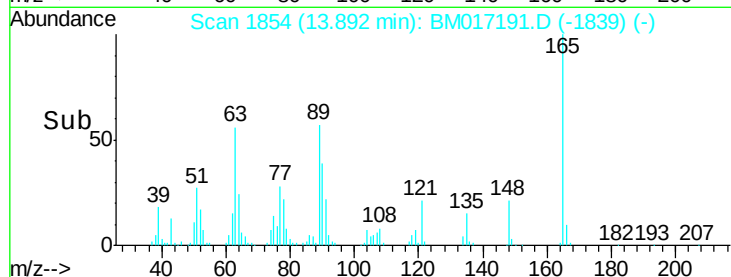
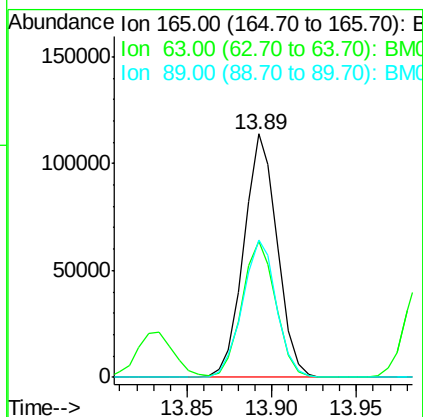
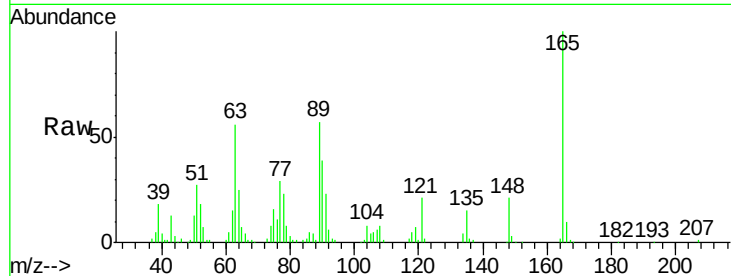
Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	165	Resp:	156067
Ion	Ratio	Lower	Upper
165	100		
63	56.0	42.7	64.1
89	56.6	42.1	63.1



#52

Acenaphthene

Concen: 20.338 ng

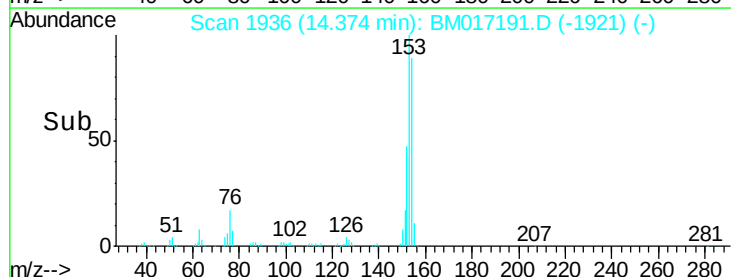
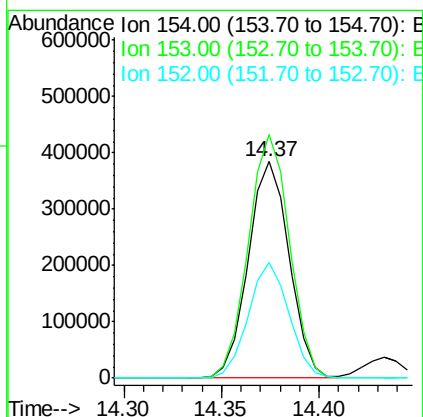
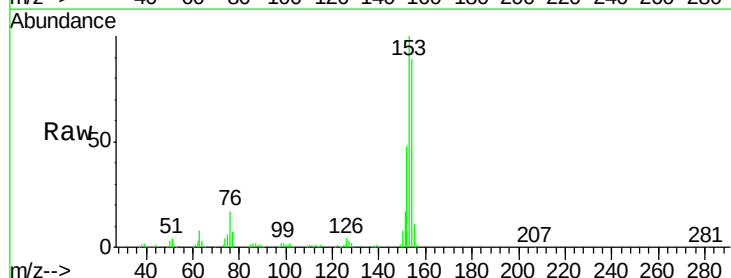
RT: 14.37 min Scan# 1936

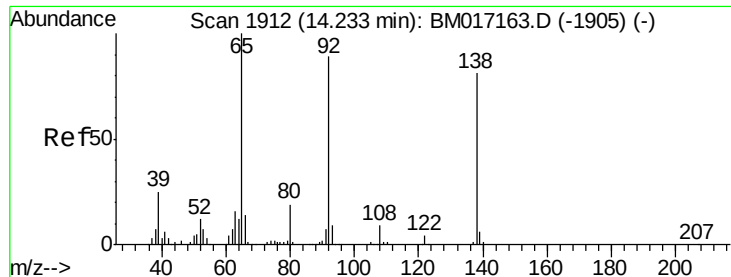
Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Tgt Ion:	154	Resp:	560105
Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.2	135.2
152	53.5	44.2	66.4

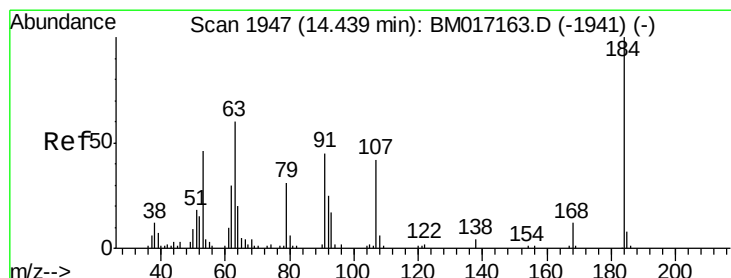
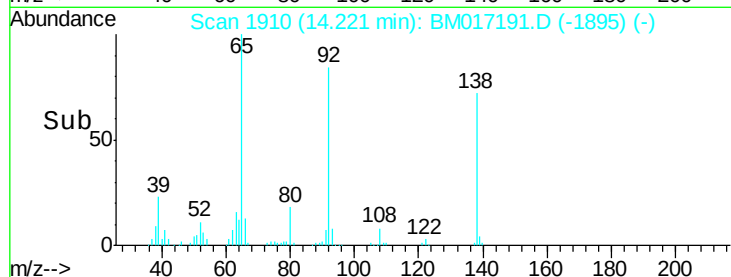
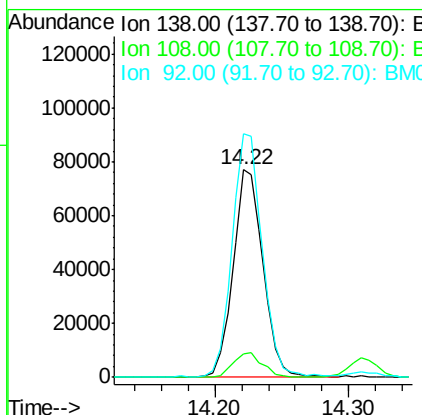
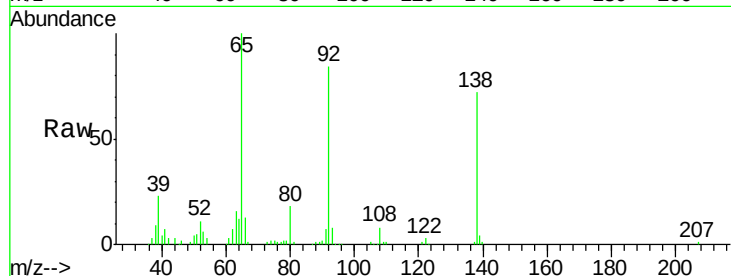




#53
3-Nitroaniline
Concen: 14.251 ng
RT: 14.22 min Scan# 1910
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

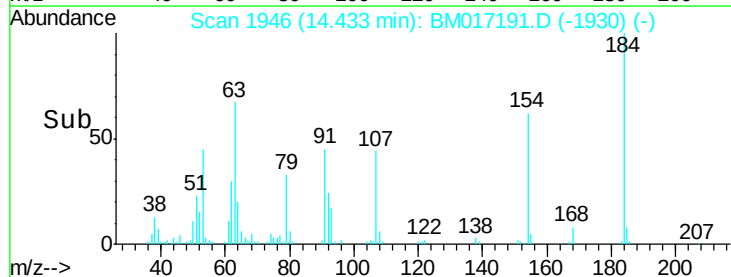
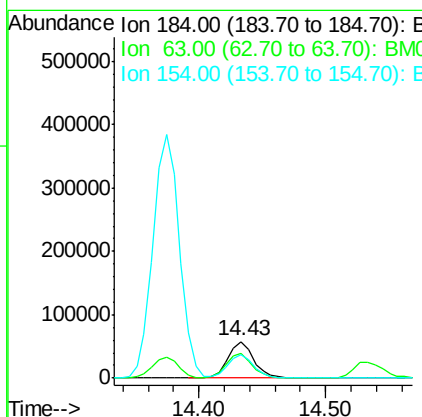
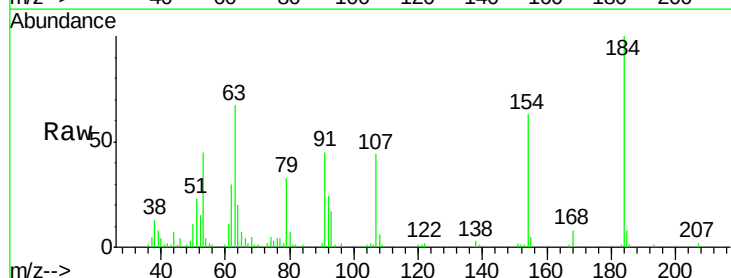
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

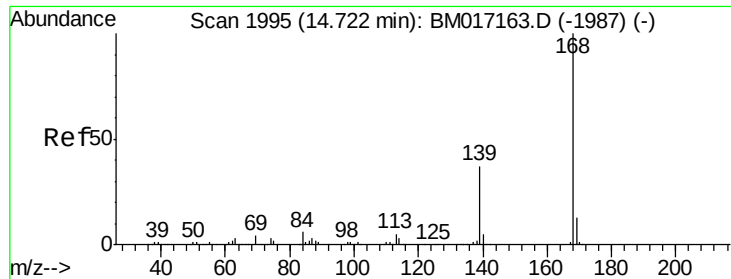
Tgt Ion:138 Resp: 119793
Ion Ratio Lower Upper
138 100
108 11.6 8.7 13.1
92 117.5 87.9 131.9



#54
2,4-Dinitrophenol
Concen: 24.140 ng
RT: 14.43 min Scan# 1946
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:184 Resp: 80762
Ion Ratio Lower Upper
184 100
63 66.5 51.2 76.8
154 63.5 47.8 71.8

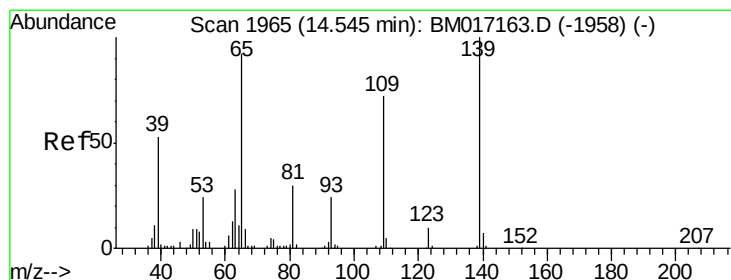
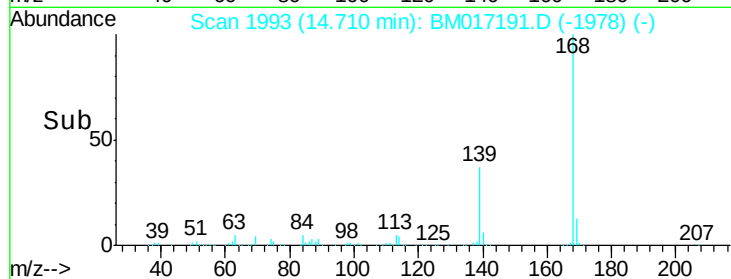
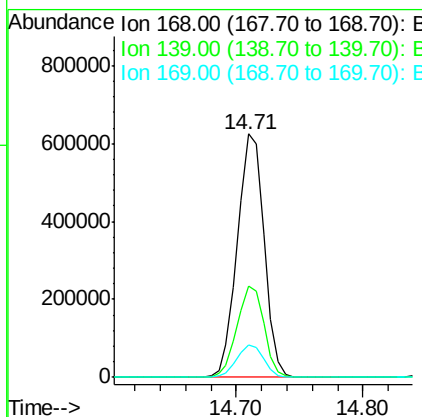
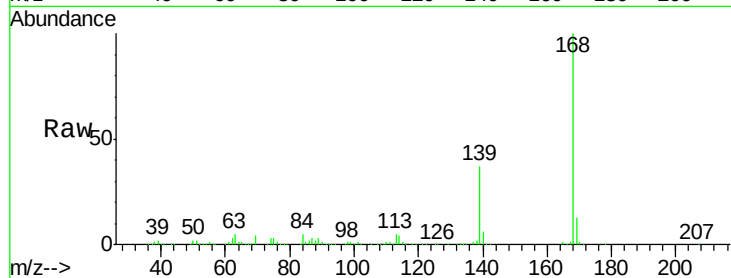




#55
Dibenzenofuran
Concen: 19.906 ng
RT: 14.71 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

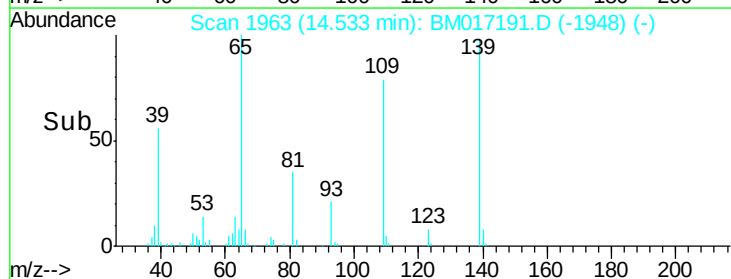
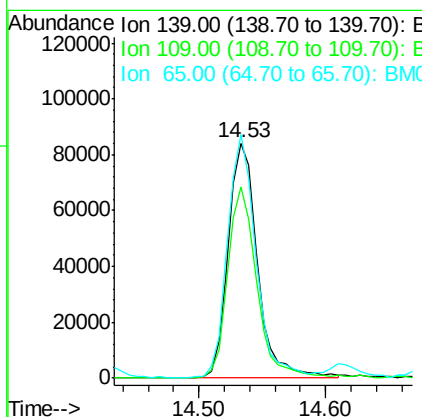
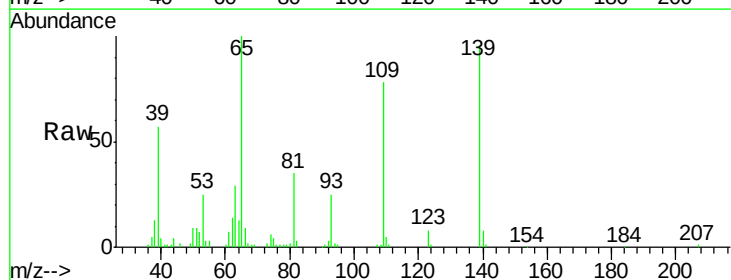
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

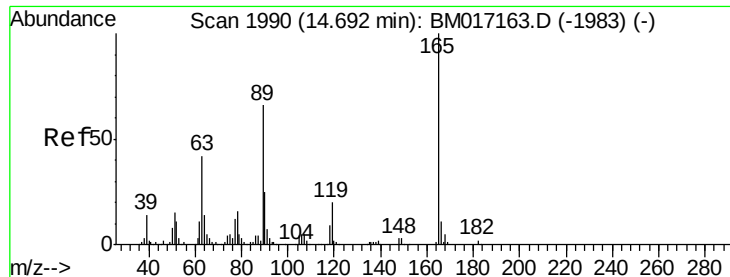
Tgt Ion:168 Resp: 911643
Ion Ratio Lower Upper
168 100
139 37.3 29.3 43.9
169 13.3 10.6 15.8



#56
4-Nitrophenol
Concen: 21.221 ng
RT: 14.53 min Scan# 1963
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:139 Resp: 134364
Ion Ratio Lower Upper
139 100
109 81.2 51.8 91.8
65 103.7 72.1 112.1

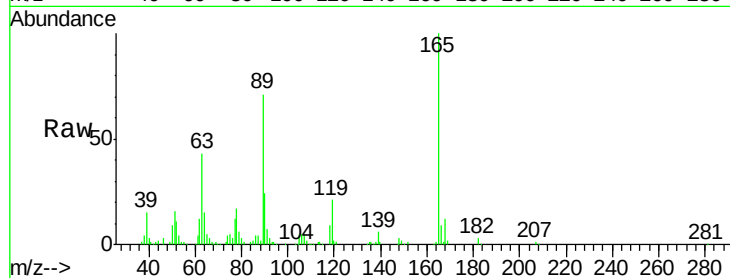




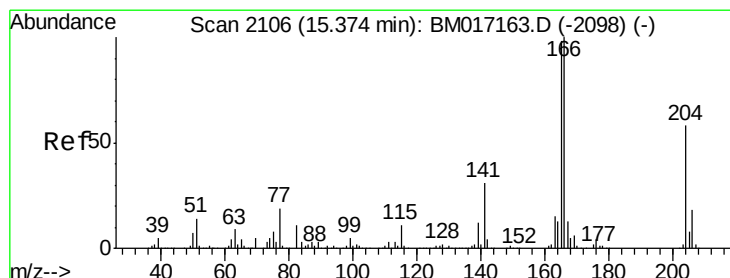
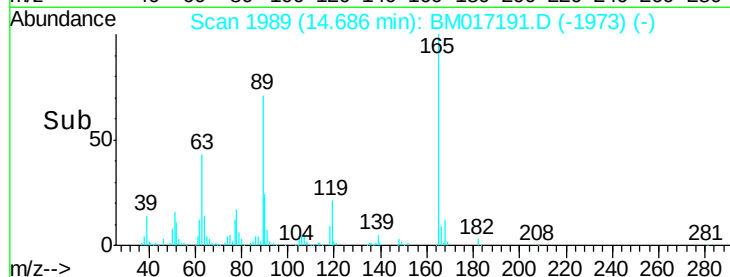
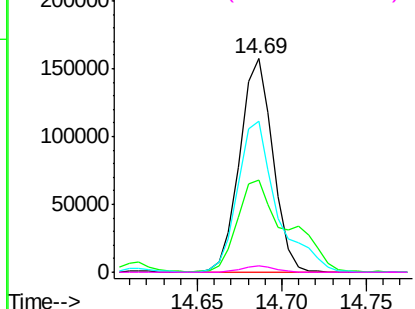
#57
2,4-Dinitrotoluene
Concen: 20.632 ng
RT: 14.69 min Scan# 1989
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:	165	Resp:	215224
Ion	Ratio	Lower	Upper
165	100		
63	43.3	33.8	50.8
89	70.9	53.1	79.7
182	2.8	2.0	3.0

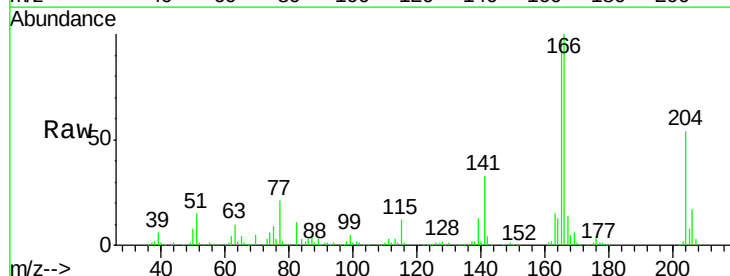


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BM
Ion 89.00 (88.70 to 89.70): BM
Ion 182.00 (181.70 to 182.70): E

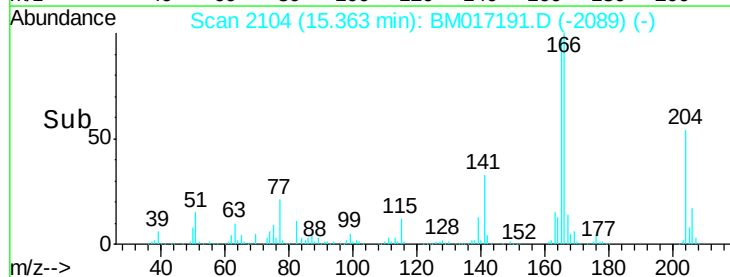
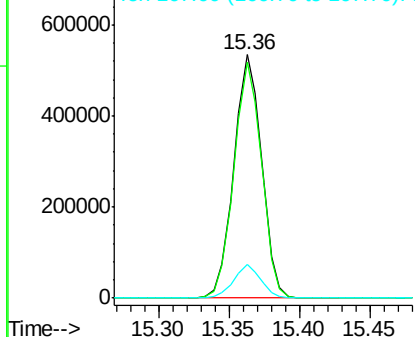


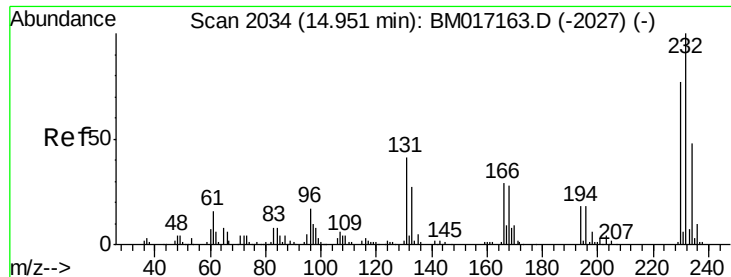
#58
Fluorene
Concen: 21.540 ng
RT: 15.36 min Scan# 2104
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:	166	Resp:	730159
Ion	Ratio	Lower	Upper
166	100		
165	96.9	78.1	117.1
167	14.0	10.6	16.0



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

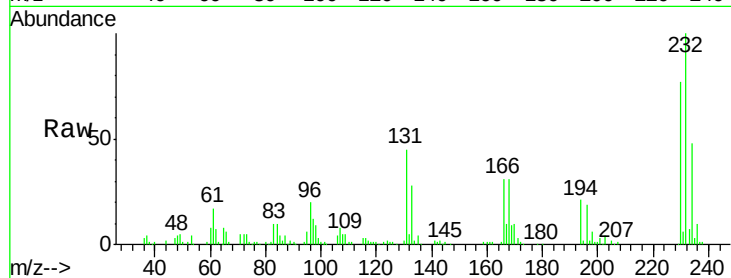




#59
2,3,4,6-Tetrachlorophenol
Concen: 21.936 ng
RT: 14.94 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
232	100		
131	44.8	33.1	49.7
130	2.3	1.7	2.5
166	31.3	24.4	36.6

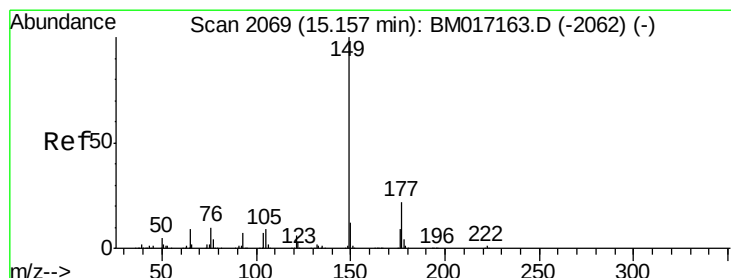
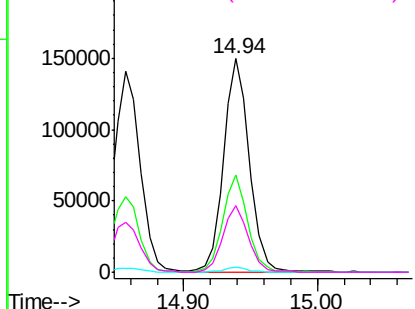
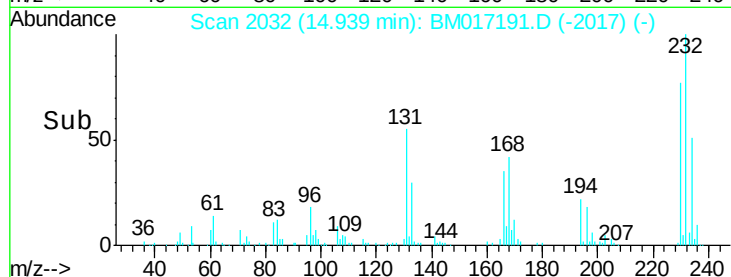


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

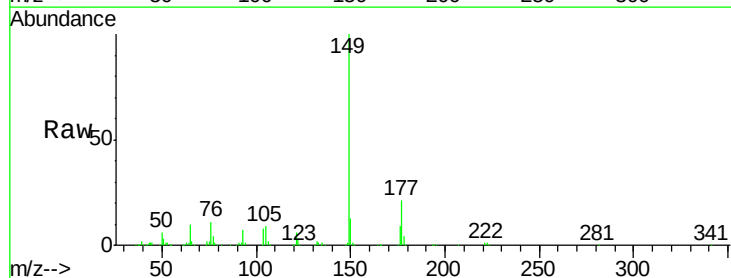
Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#60
Diethylphthalate
Concen: 21.062 ng
RT: 15.14 min Scan# 2067
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

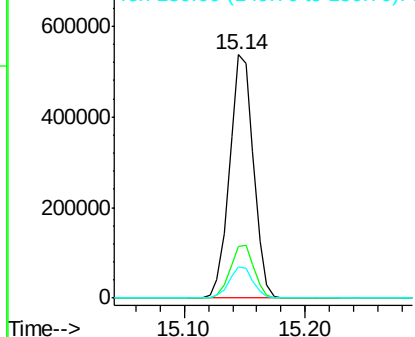
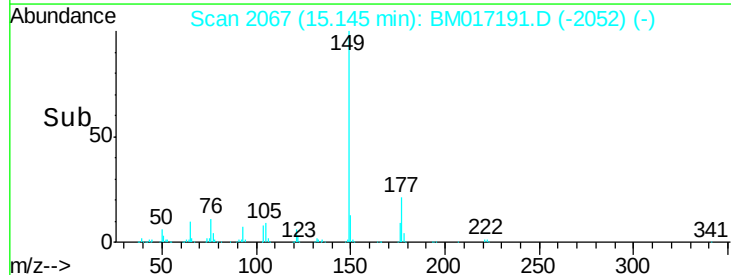
Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.4	17.7	26.5
150	12.7	10.0	15.0

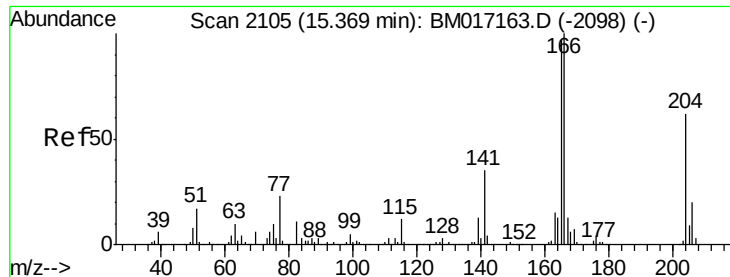


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

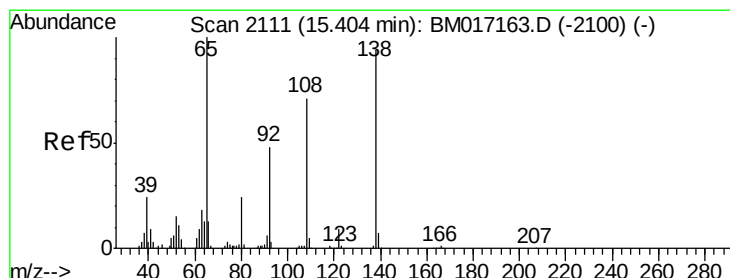
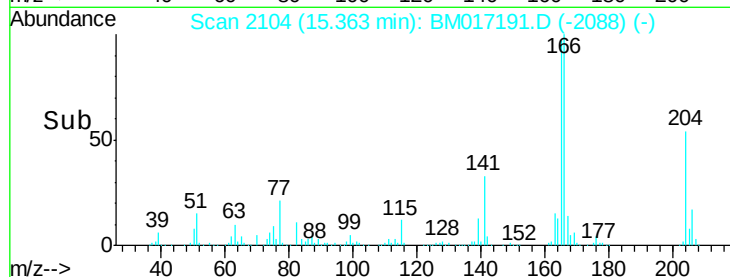
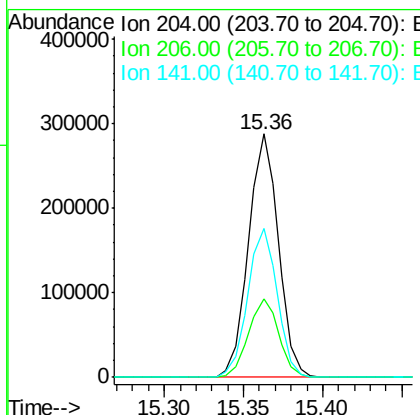
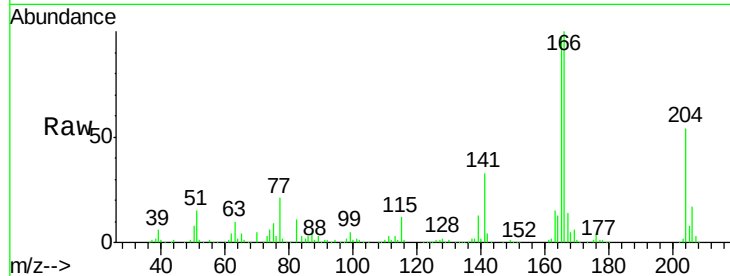




#61
4-Chlorophenyl-phenylether
Concen: 19.571 ng
RT: 15.36 min Scan# 2104
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

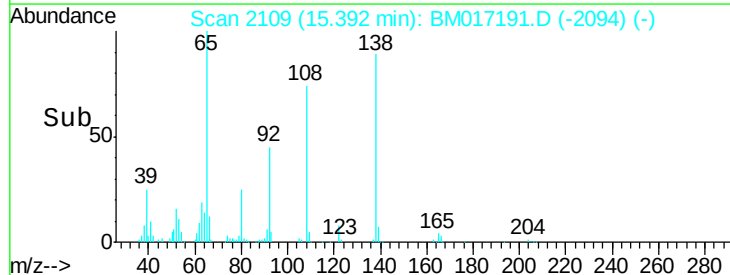
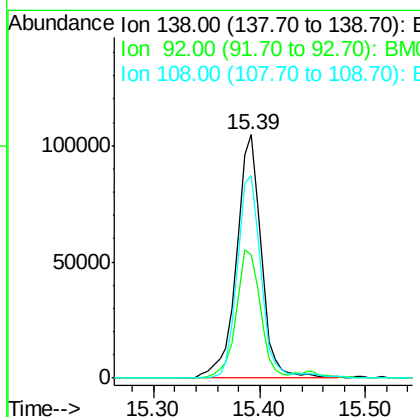
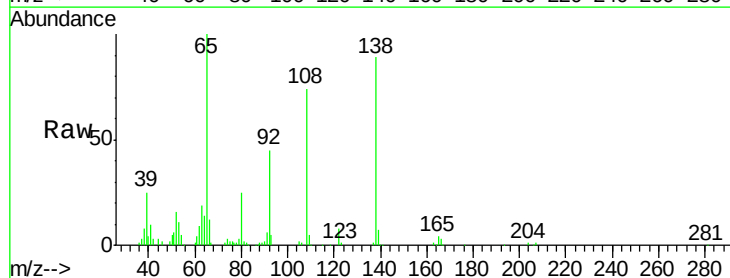
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

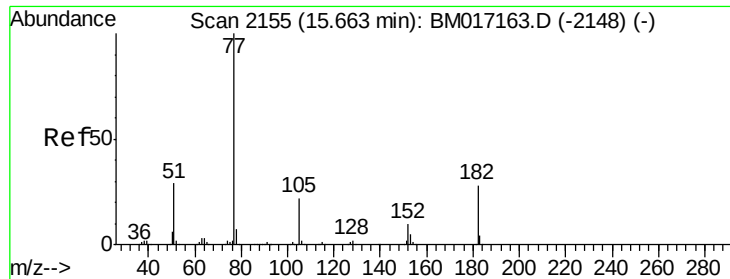
Tgt Ion:204 Resp: 378204
Ion Ratio Lower Upper
204 100
206 32.1 26.1 39.1
141 61.0 45.4 68.2



#62
4-Nitroaniline
Concen: 20.957 ng
RT: 15.39 min Scan# 2109
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:138 Resp: 168706
Ion Ratio Lower Upper
138 100
92 50.7 31.2 71.2
108 83.0 55.5 95.5

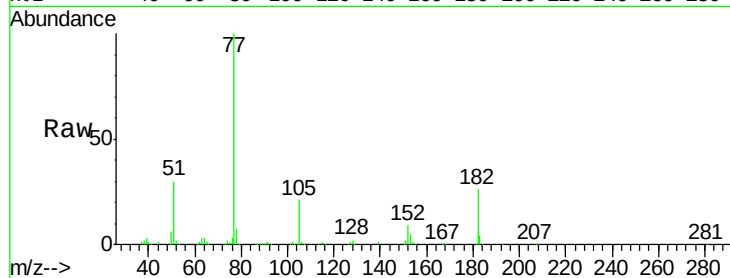




#63
Azobenzene
Concen: 20.309 ng
RT: 15.66 min Scan# 2154
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:	77	Resp:	690321
Ion	Ratio	Lower	Upper
77	100		
182	26.3	8.3	48.3
105	21.1	1.5	41.5
51	29.5	8.8	48.8

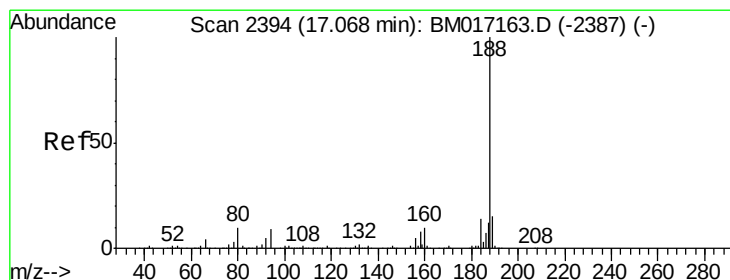
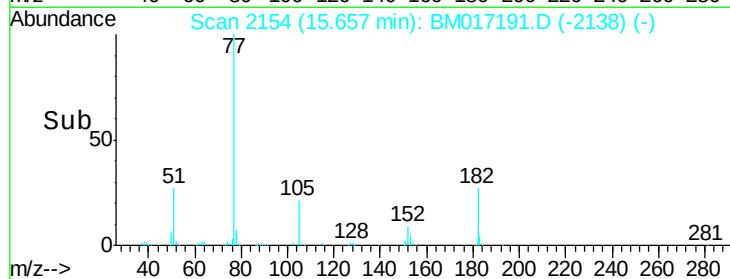
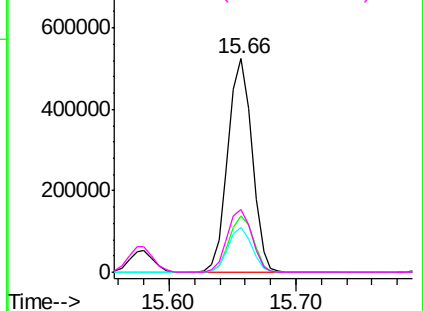


Abundance Ion 77.00 (76.70 to 77.70): BM017191.D (-2148) (-)

Ion 182.00 (181.70 to 182.70): BM017191.D (-2148) (-)

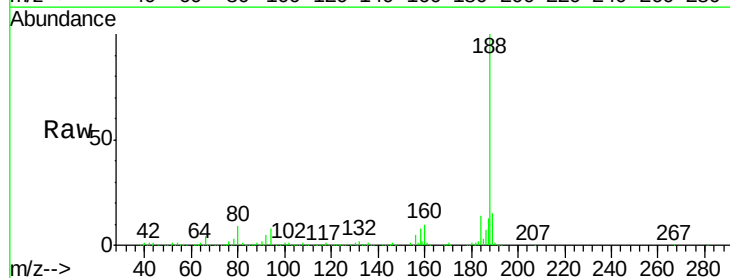
Ion 105.00 (104.70 to 105.70): BM017191.D (-2148) (-)

Ion 51.00 (50.70 to 51.70): BM017191.D (-2148) (-)



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.06 min Scan# 2393
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

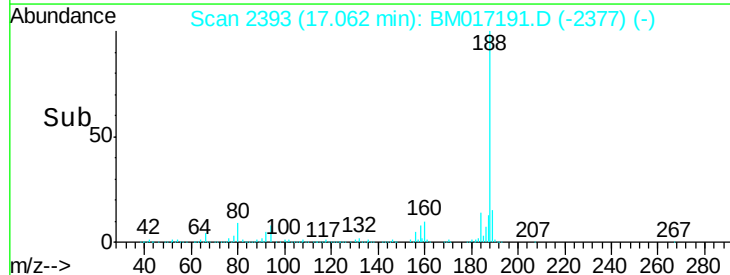
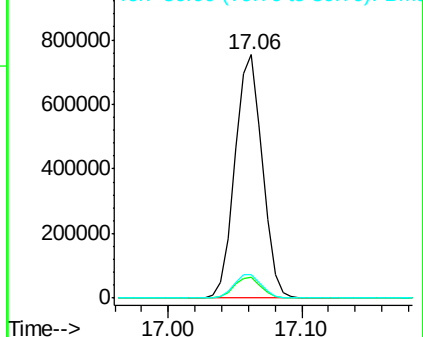
Tgt Ion:	188	Resp:	1073261
Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.0	10.4
80	9.4	7.7	11.5

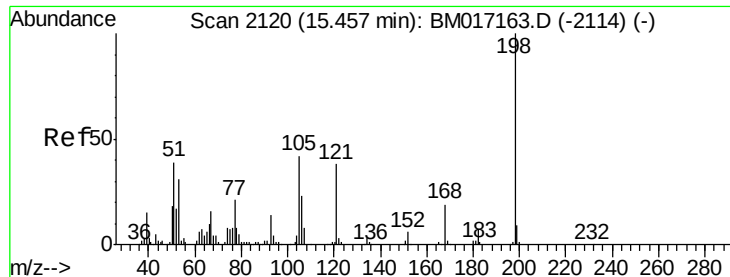


Abundance Ion 188.00 (187.70 to 188.70): BM017191.D (-2387) (-)

Ion 94.00 (93.70 to 94.70): BM017191.D (-2387) (-)

Ion 80.00 (79.70 to 80.70): BM017191.D (-2387) (-)

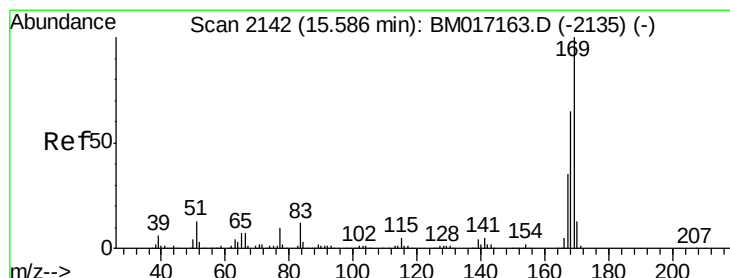
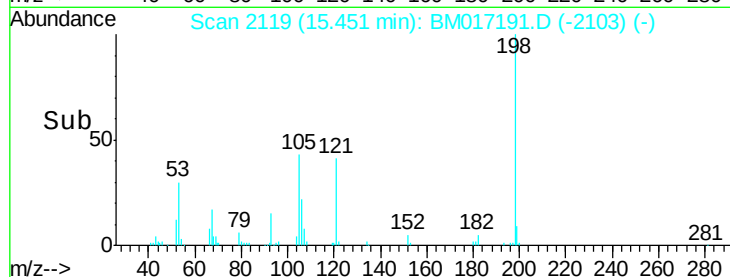
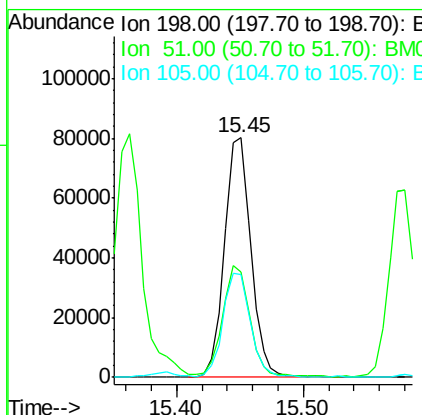
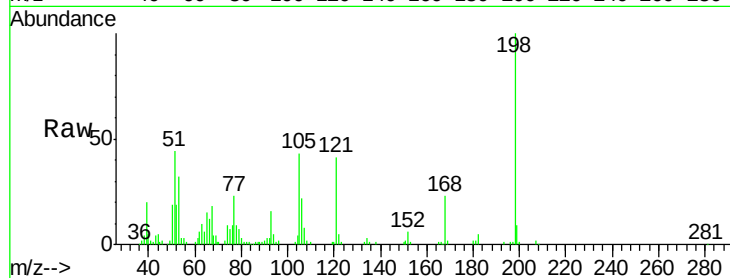




#65
 4,6-Dinitro-2-methylphenol
 Concen: 21.376 ng
 RT: 15.45 min Scan# 2119
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

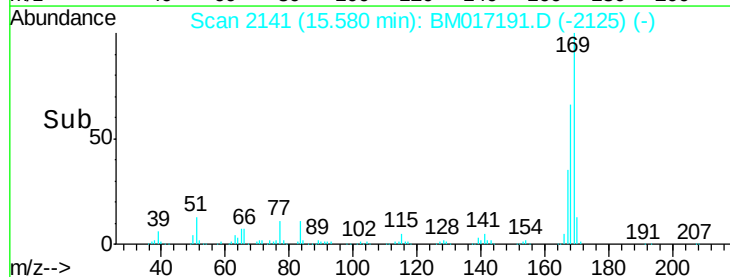
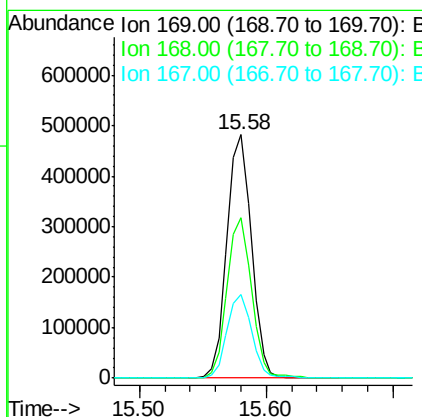
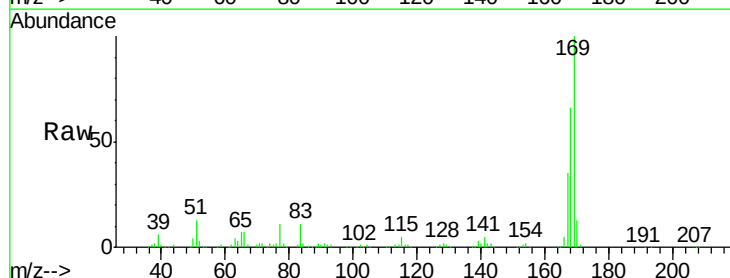
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

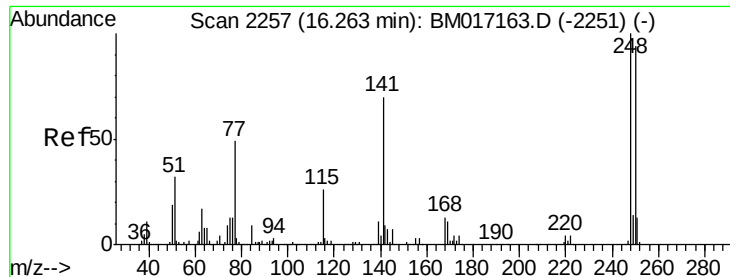
Tgt Ion:198 Resp: 115985
 Ion Ratio Lower Upper
 198 100
 51 44.1 20.3 60.3
 105 43.2 21.9 61.9



#66
 n-Nitrosodiphenylamine
 Concen: 19.865 ng
 RT: 15.58 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

Tgt Ion:169 Resp: 645027
 Ion Ratio Lower Upper
 169 100
 168 65.8 52.2 78.4
 167 34.5 28.4 42.6

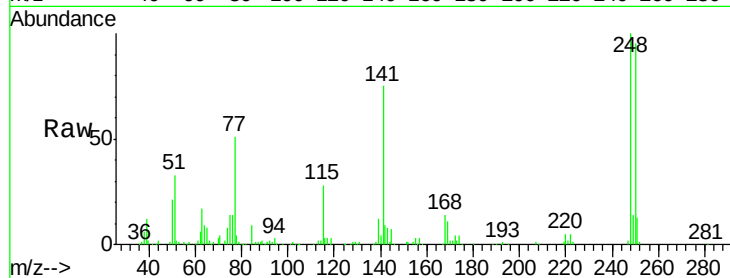




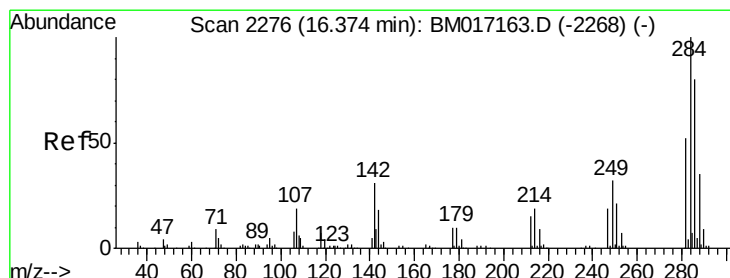
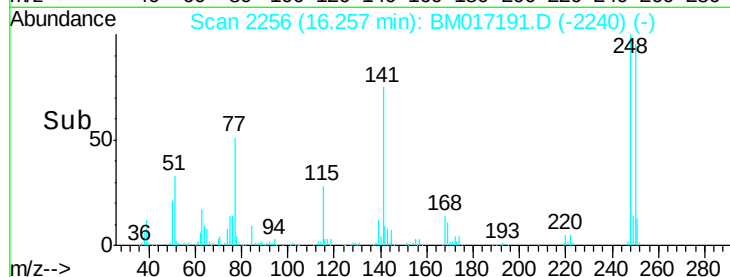
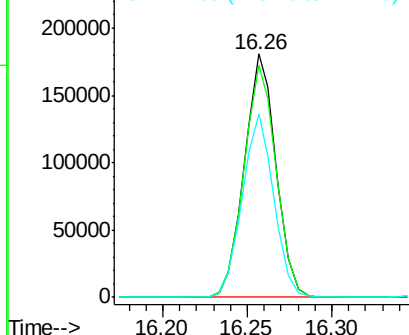
#67
4-Bromophenyl-phenylether
Concen: 20.004 ng
RT: 16.26 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:248 Resp: 235733
Ion Ratio Lower Upper
248 100
250 95.3 75.1 112.7
141 75.3 55.6 83.4

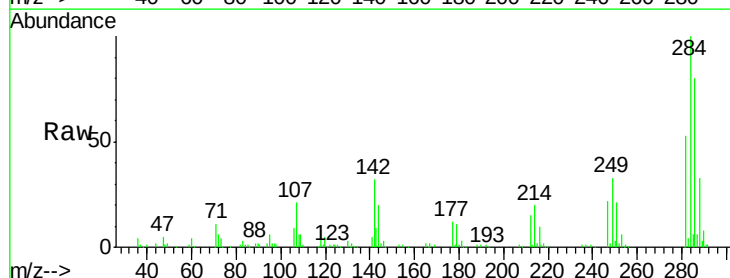


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

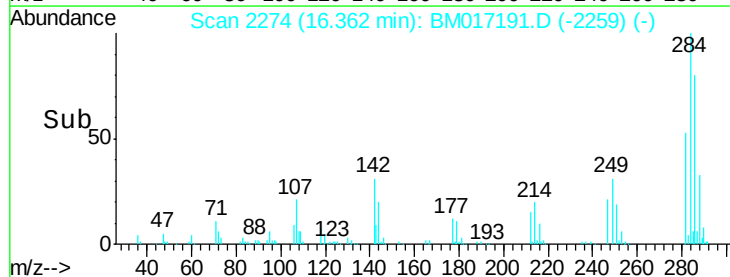
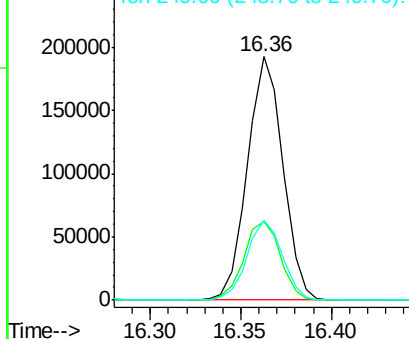


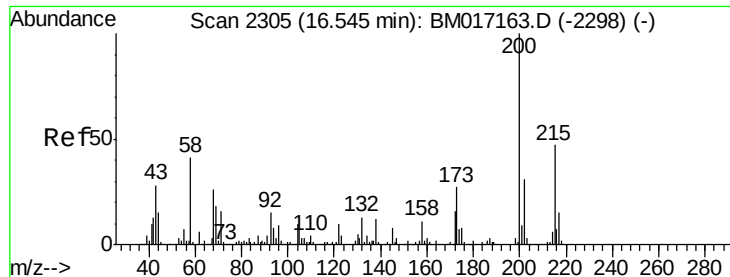
#68
Hexachlorobenzene
Concen: 19.125 ng
RT: 16.36 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:284 Resp: 261798
Ion Ratio Lower Upper
284 100
142 32.0 25.0 37.6
249 32.5 25.5 38.3



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





#69

Atrazine

Concen: 20.437 ng

RT: 16.53 min Scan# 2303

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

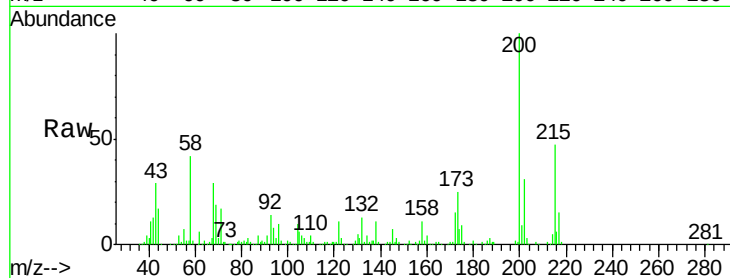
Tgt Ion:200 Resp: 237515

Ion Ratio Lower Upper

200 100

173 25.3 7.0 47.0

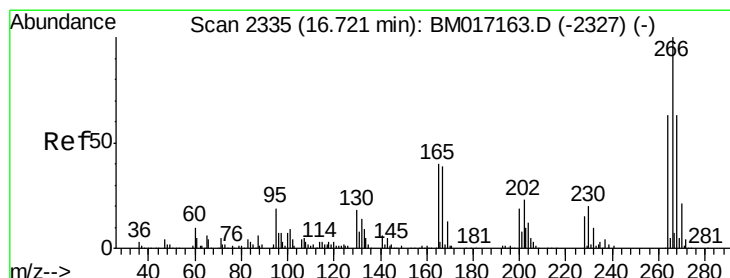
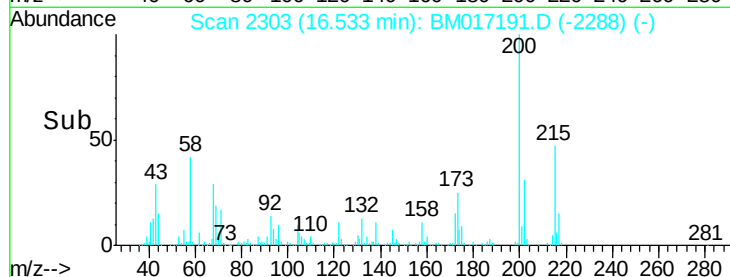
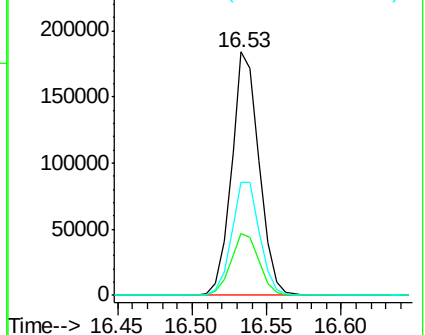
215 46.7 27.3 67.3



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

Pentachlorophenol

Concen: 15.486 ng

RT: 16.71 min Scan# 2333

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

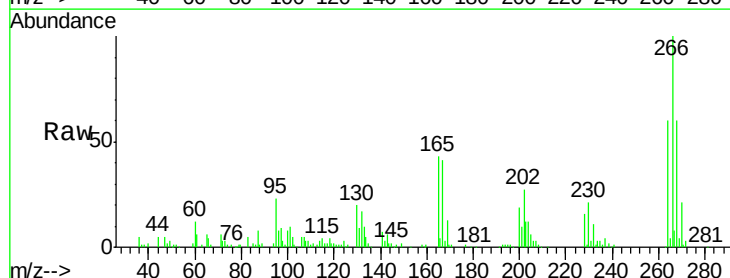
Tgt Ion:266 Resp: 145213

Ion Ratio Lower Upper

266 100

268 60.1 50.7 76.1

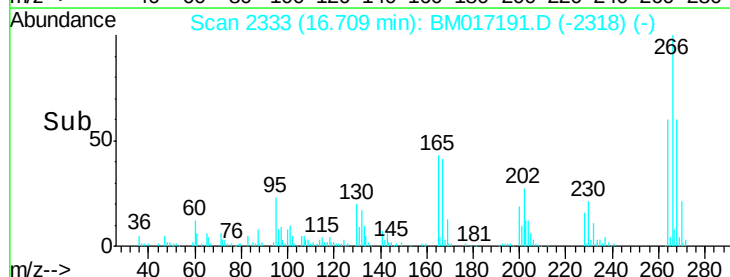
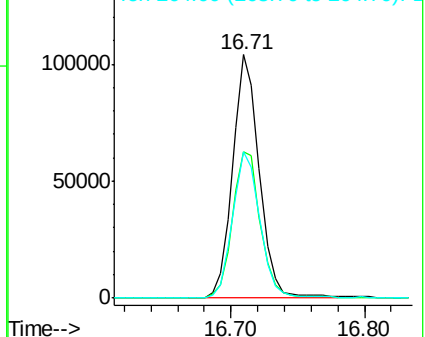
264 60.0 50.4 75.6

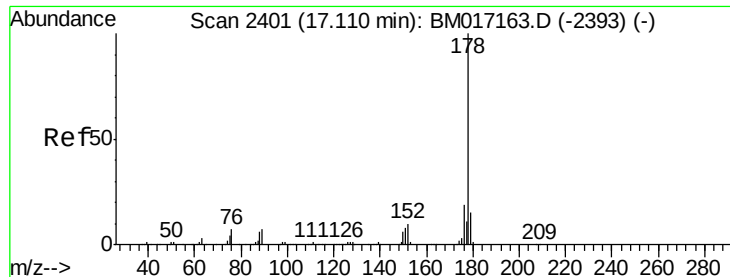


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

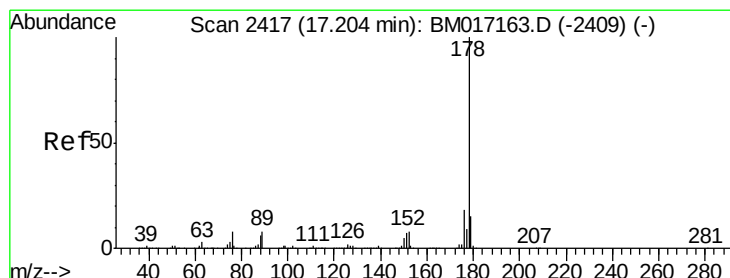
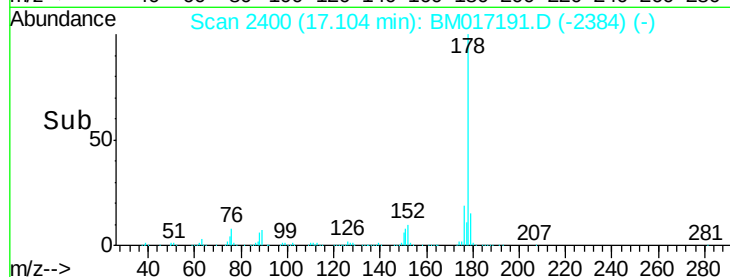
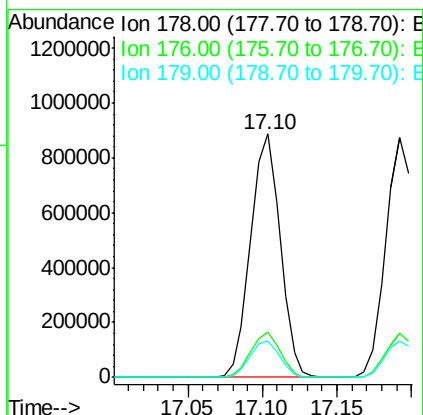
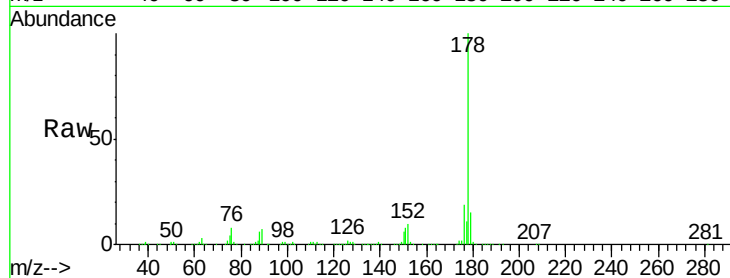




#71
Phenanthrene
Concen: 21.023 ng
RT: 17.10 min Scan# 2400
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

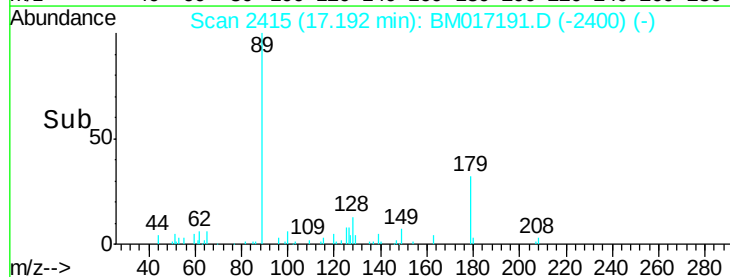
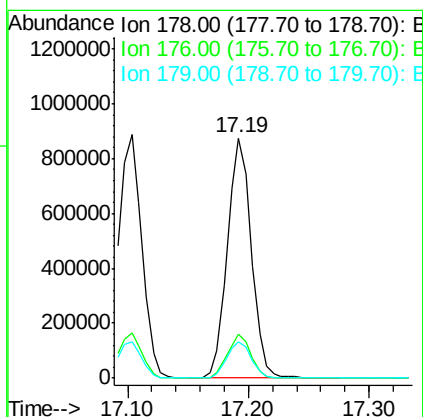
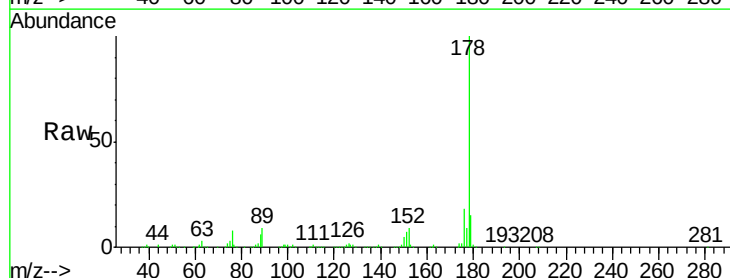
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

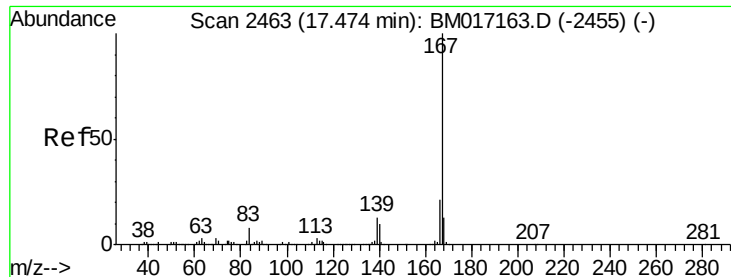
Tgt Ion:178 Resp: 1217342
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 14.7 12.3 18.5



#72
Anthracene
Concen: 21.895 ng
RT: 17.19 min Scan# 2415
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:178 Resp: 1204689
Ion Ratio Lower Upper
178 100
176 18.1 14.5 21.7
179 15.3 12.2 18.2

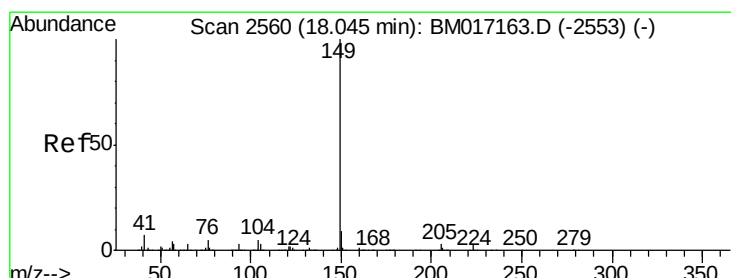
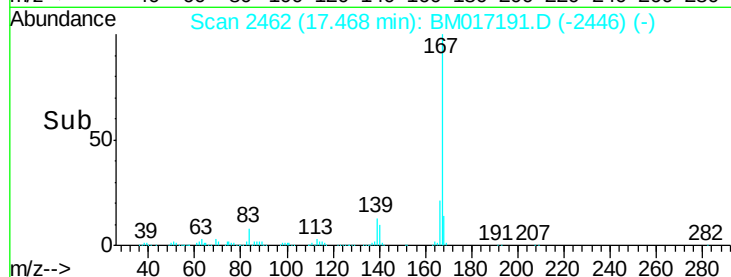
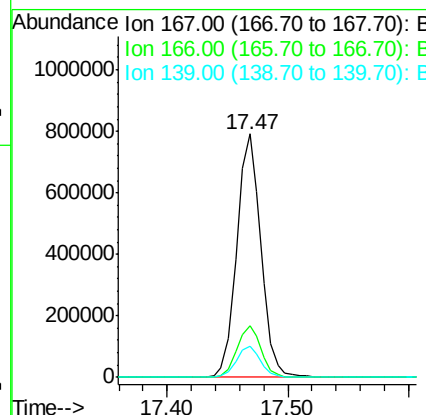
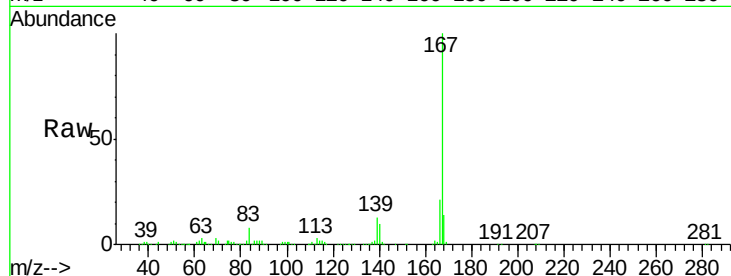




#73
 Carbazole
 Concen: 19.551 ng
 RT: 17.47 min Scan# 2462
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

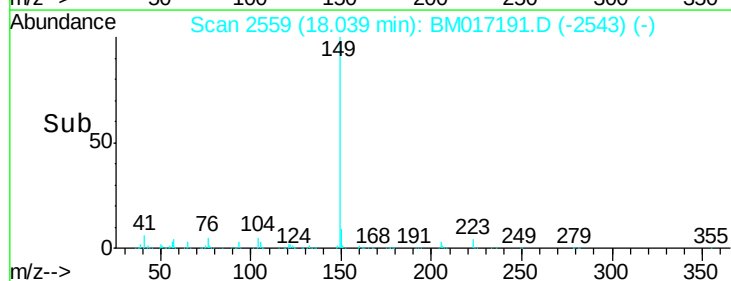
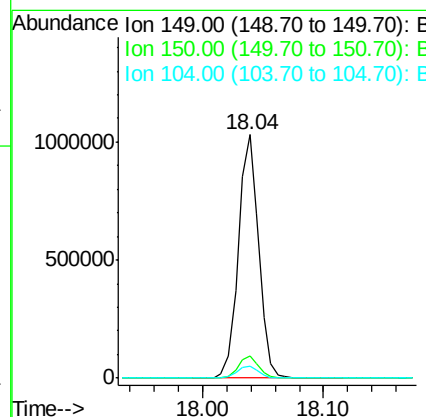
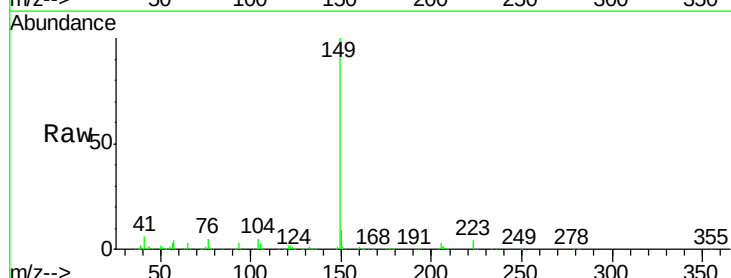
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

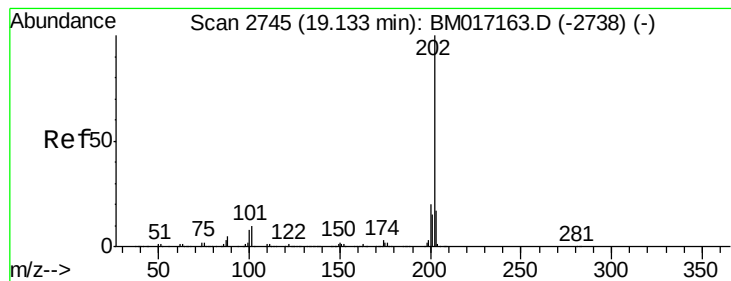
Tgt Ion:167 Resp: 1098864
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.1 25.7
 139 12.6 10.1 15.1



#74
 Di-n-butylphthalate
 Concen: 20.321 ng
 RT: 18.04 min Scan# 2559
 Delta R.T. -0.01 min
 Lab File: BM017191.D
 Acq: 18 Oct 2018 14:01

Tgt Ion:149 Resp: 1204620
 Ion Ratio Lower Upper
 149 100
 150 9.0 7.4 11.0
 104 5.1 4.3 6.5





#75

Fluoranthene

Concen: 22.229 ng

RT: 19.12 min Scan# 2743

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

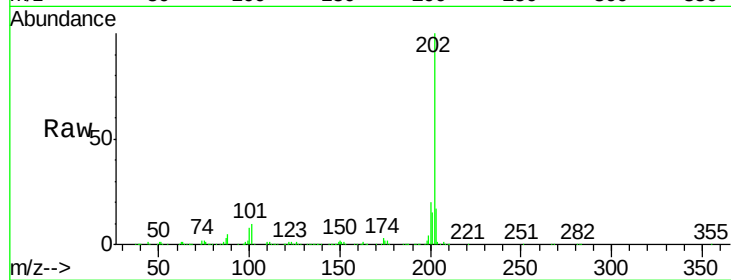
Tgt Ion:202 Resp: 1448400

Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.0

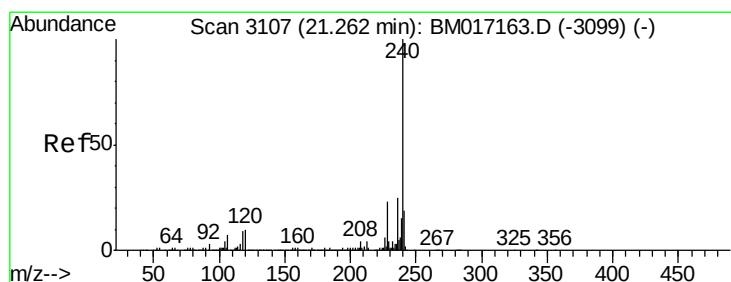
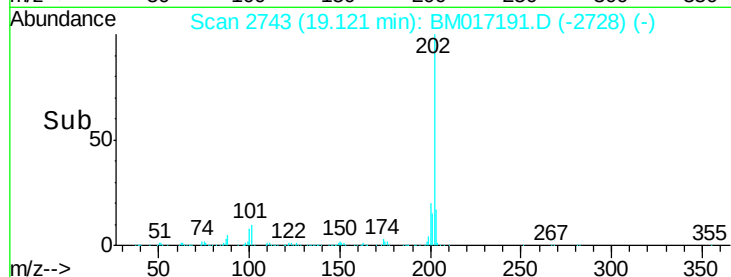
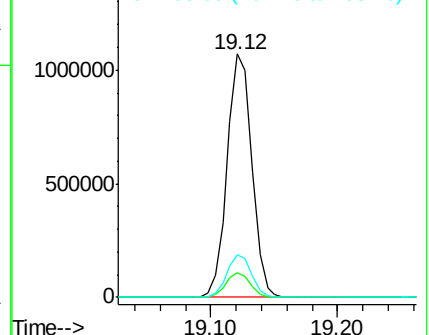
203 17.3 0.0 37.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.25 min Scan# 3105

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

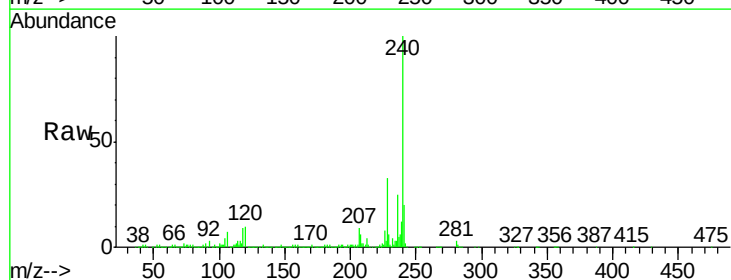
Tgt Ion:240 Resp: 1309949

Ion Ratio Lower Upper

240 100

120 10.2 8.1 12.1

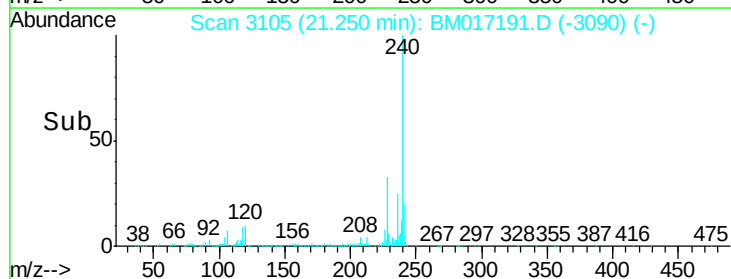
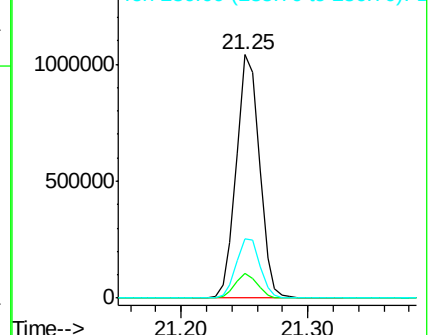
236 24.6 19.9 29.9

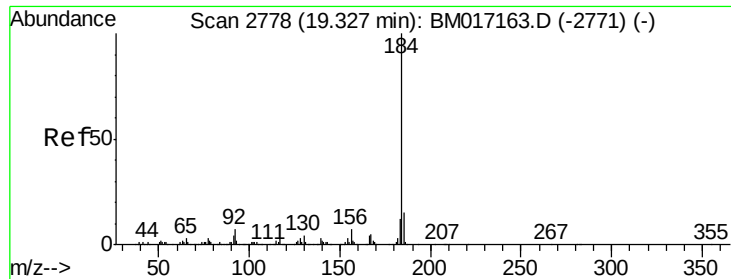


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 11.812 ng

RT: 19.32 min Scan# 2777

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

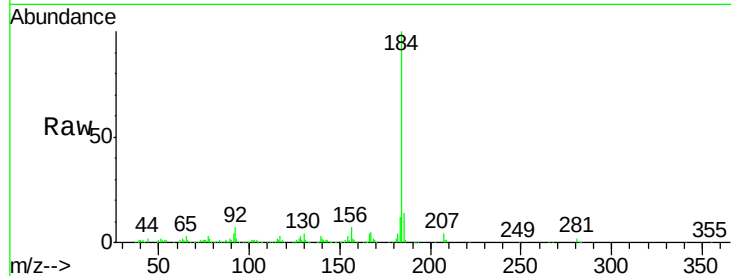
Tgt Ion:184 Resp: 392334

Ion Ratio Lower Upper

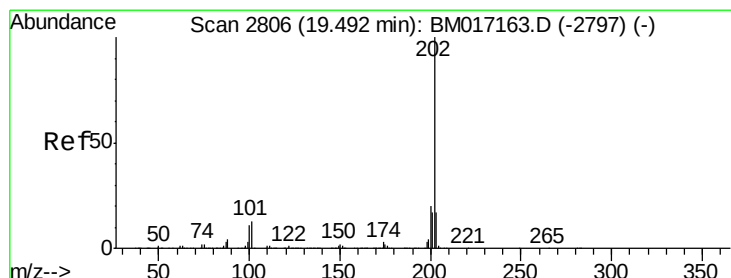
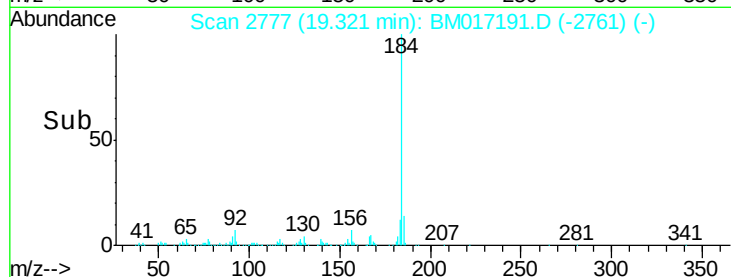
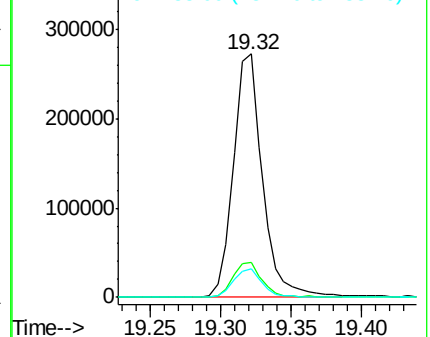
184 100

185 14.4 11.8 17.8

183 12.0 9.7 14.5



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



#78

Pyrene

Concen: 20.498 ng

RT: 19.49 min Scan# 2805

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

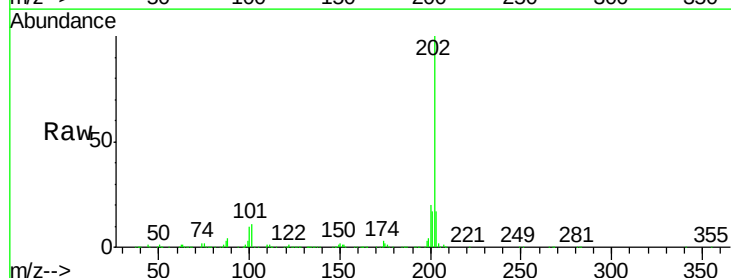
Tgt Ion:202 Resp: 1500727

Ion Ratio Lower Upper

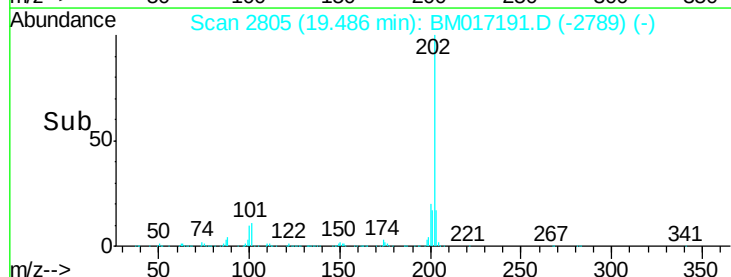
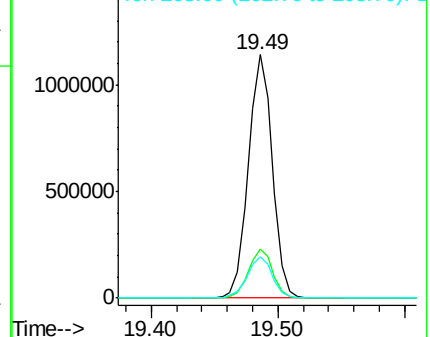
202 100

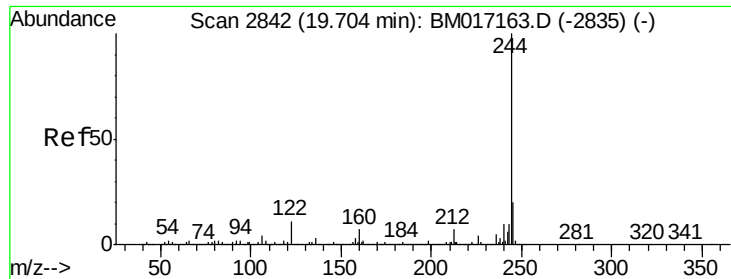
200 20.2 16.3 24.5

203 17.1 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 79.404 ng

RT: 19.70 min Scan# 2841

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

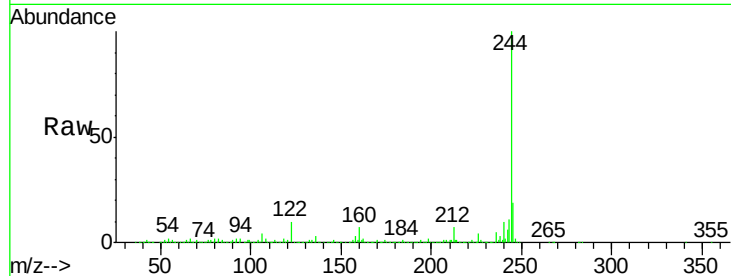
Tgt Ion:244 Resp: 4614669

Ion Ratio Lower Upper

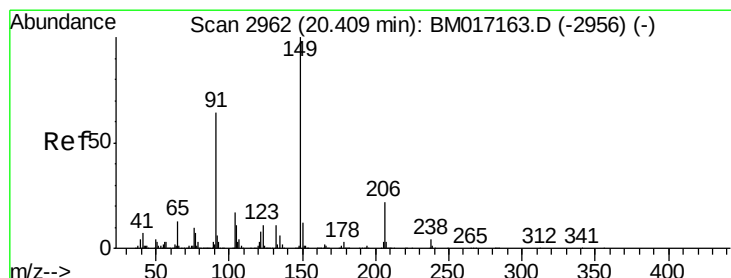
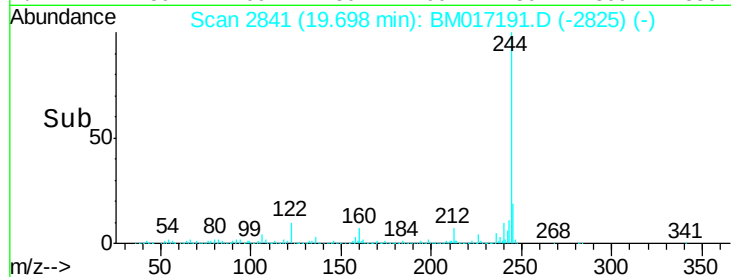
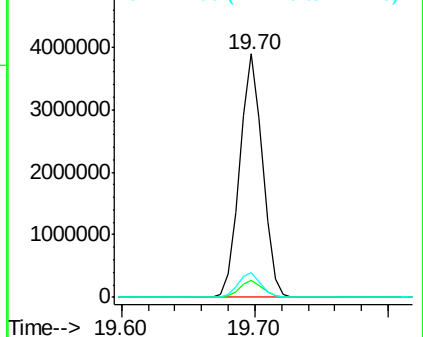
244 100

212 7.2 5.5 8.3

122 10.0 8.4 12.6



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



#80

Butylbenzylphthalate

Concen: 24.122 ng

RT: 20.40 min Scan# 2960

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

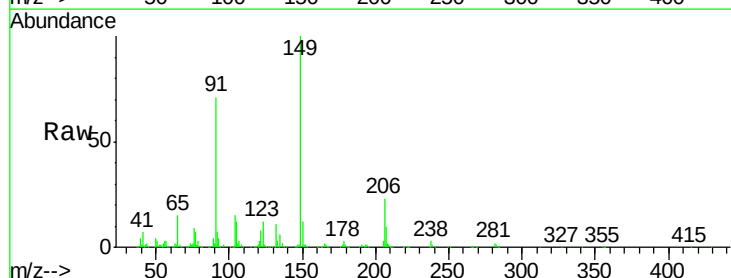
Tgt Ion:149 Resp: 555123

Ion Ratio Lower Upper

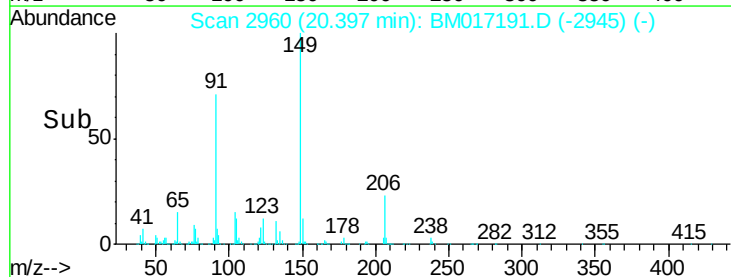
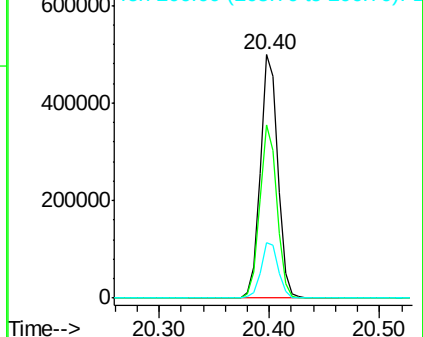
149 100

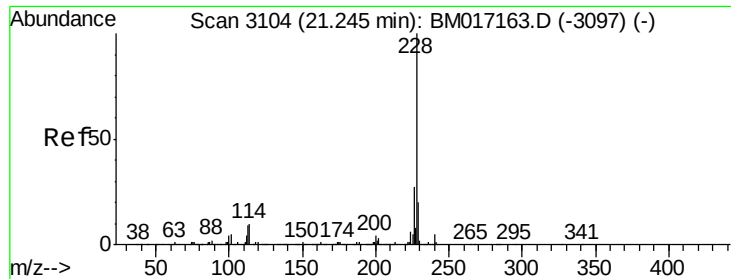
91 71.2 51.3 76.9

206 22.5 18.0 27.0



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BM0
Ion 206.00 (205.70 to 206.70): E

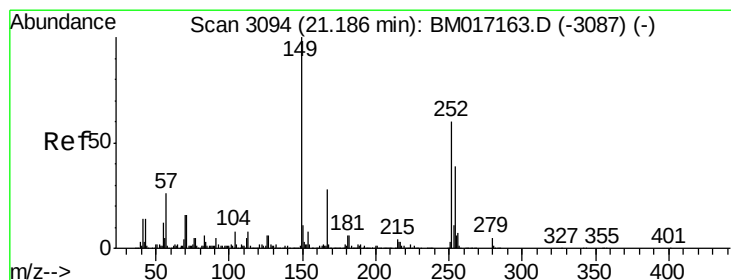
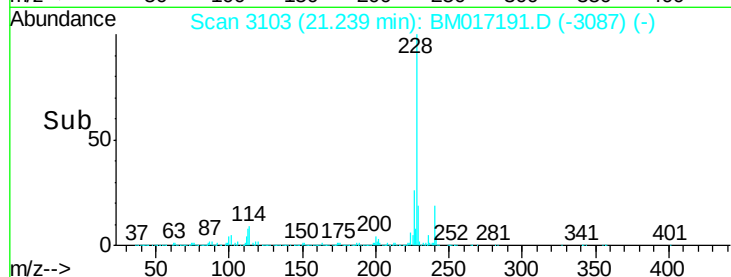
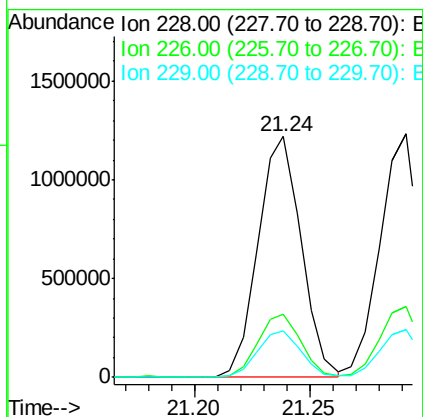
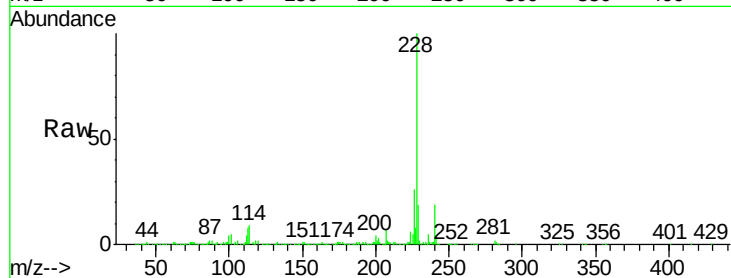




#81
Benzo(a)anthracene
Concen: 21.532 ng
RT: 21.24 min Scan# 3103
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

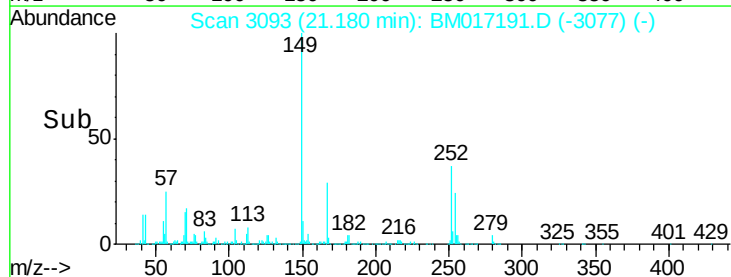
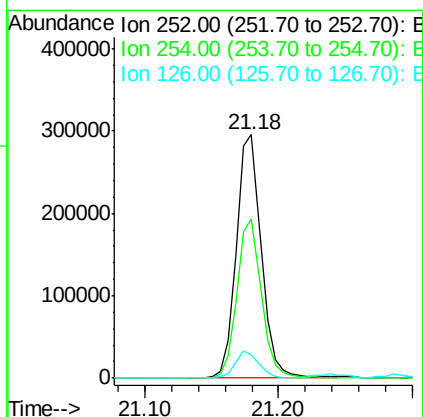
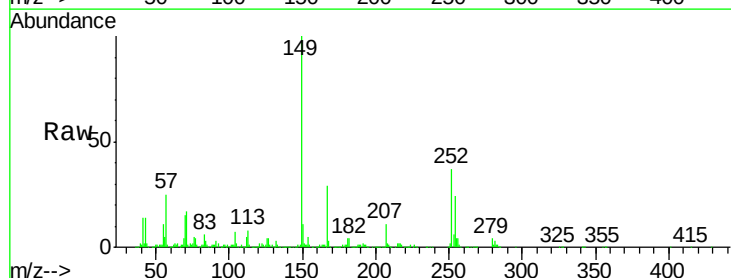
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

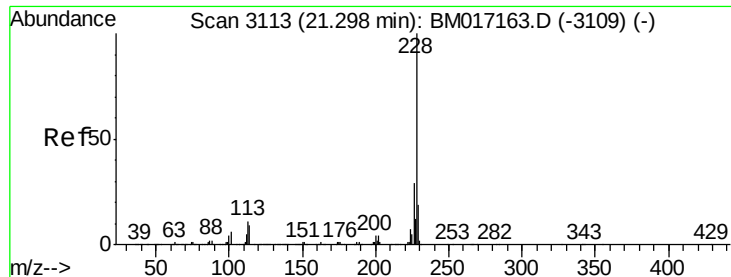
Tgt Ion:228 Resp: 1587274
Ion Ratio Lower Upper
228 100
226 26.4 21.4 32.0
229 19.2 15.9 23.9



#82
3,3'-Dichlorobenzidine
Concen: 14.070 ng
RT: 21.18 min Scan# 3093
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:252 Resp: 386565
Ion Ratio Lower Upper
252 100
254 65.6 52.1 78.1
126 9.9 8.6 12.8





#83

Chrysene

Concen: 20.907 ng

RT: 21.29 min Scan# 3112

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

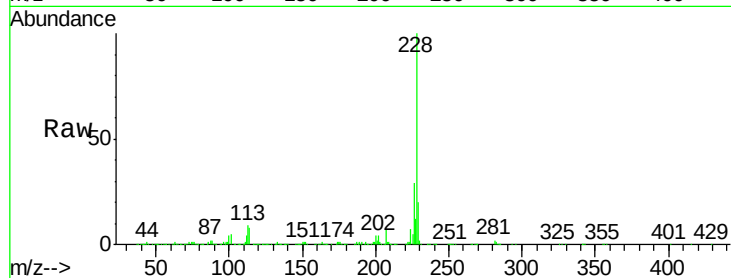
Tgt Ion:228 Resp: 1525447

Ion Ratio Lower Upper

228 100

226 29.1 23.3 34.9

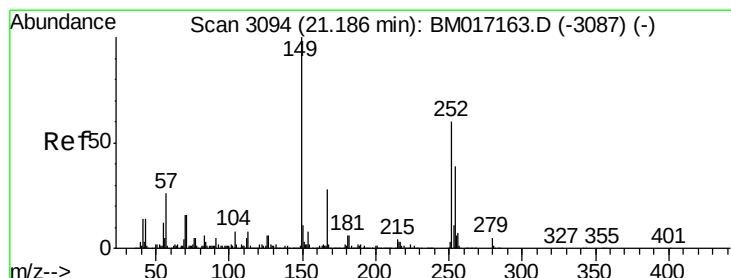
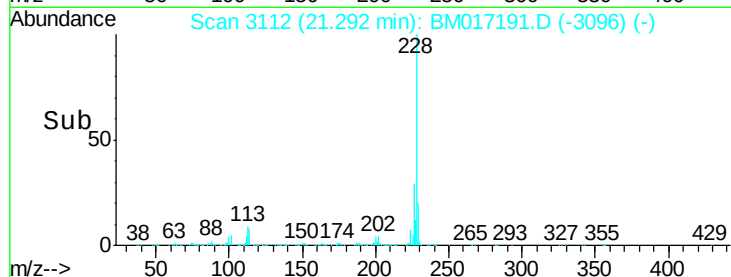
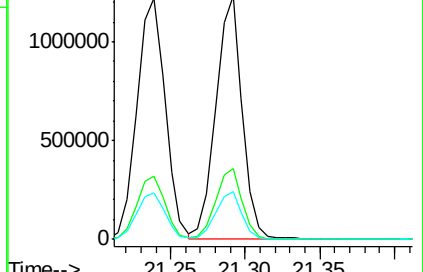
229 19.6 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 22.637 ng

RT: 21.18 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

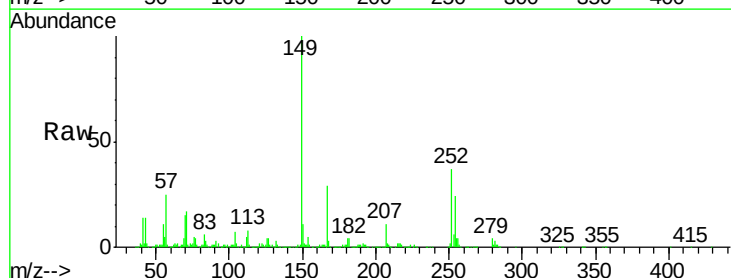
Tgt Ion:149 Resp: 830533

Ion Ratio Lower Upper

149 100

167 28.5 22.2 33.4

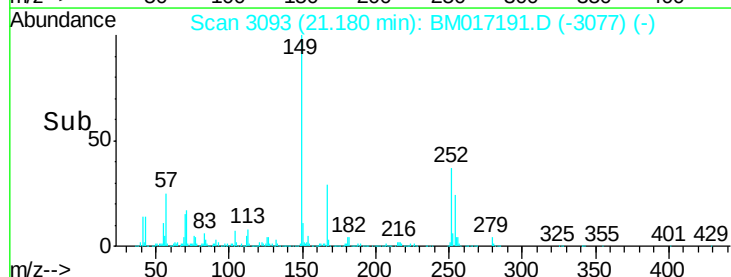
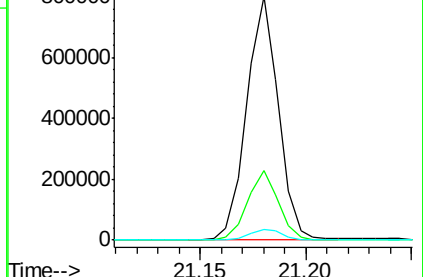
279 4.3 3.6 5.4

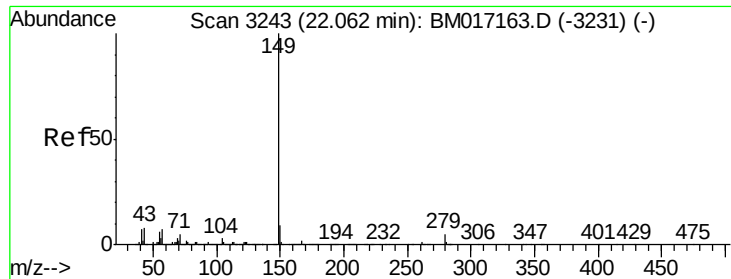


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

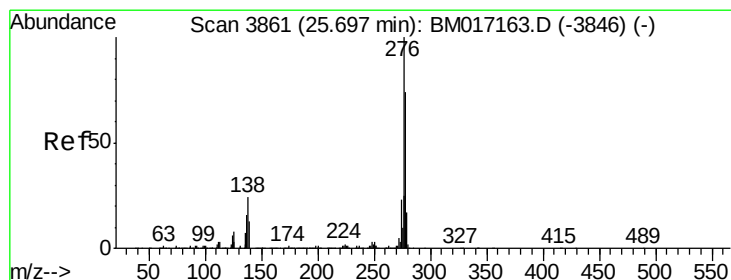
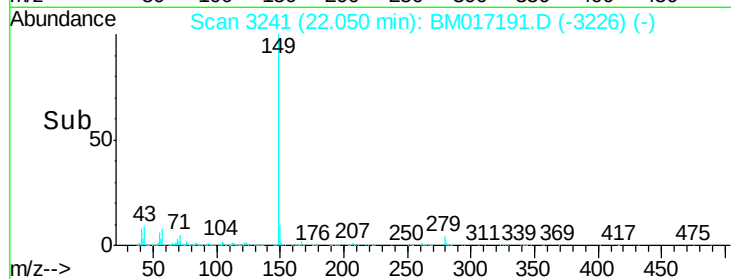
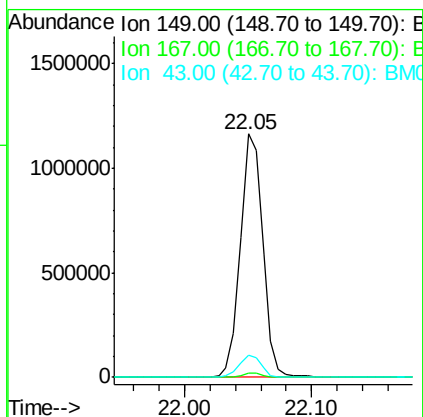
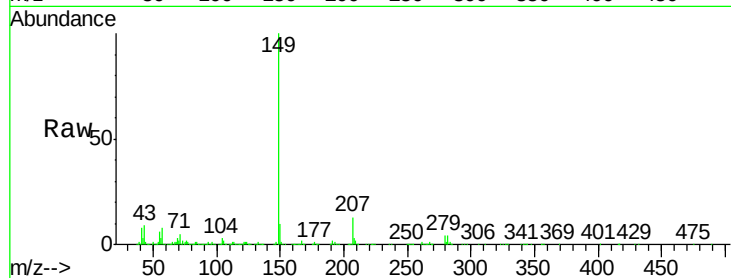




#85
Di-n-octyl phthalate
Concen: 22.916 ng
RT: 22.05 min Scan# 3241
Delta R.T. -0.01 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

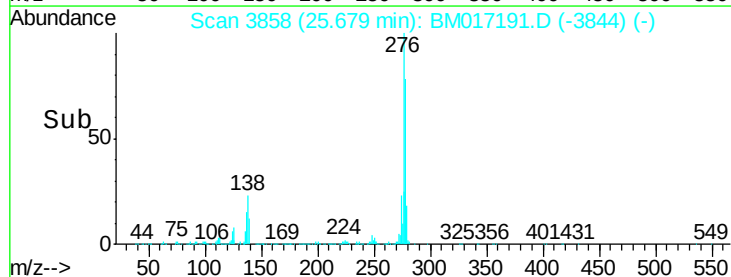
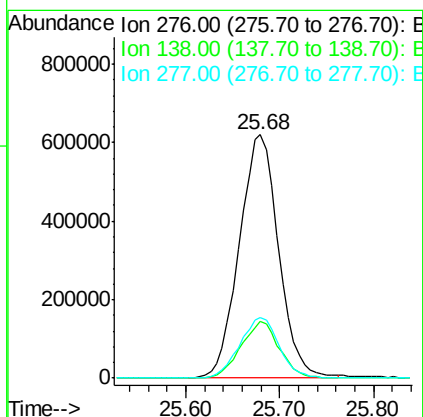
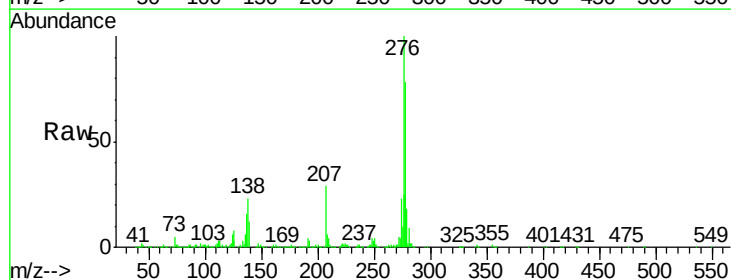
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

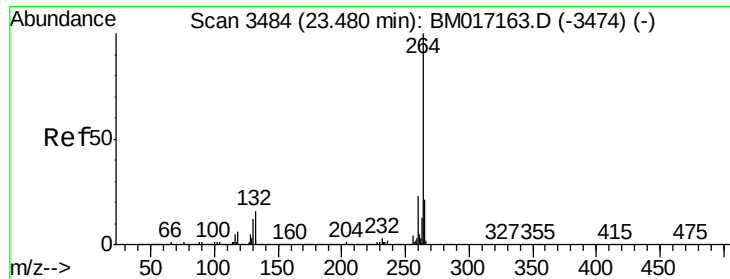
Tgt Ion:149 Resp: 1416942
Ion Ratio Lower Upper
149 100
167 1.6 1.4 2.0
43 8.9 7.2 10.8



#86
Indeno(1,2,3-cd)pyrene
Concen: 22.026 ng
RT: 25.68 min Scan# 3858
Delta R.T. -0.02 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:276 Resp: 1797510
Ion Ratio Lower Upper
276 100
138 22.9 19.5 29.3
277 25.0 20.1 30.1





#87

Perylene-d12

Concen: 20.000 ng

RT: 23.47 min Scan# 3482

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

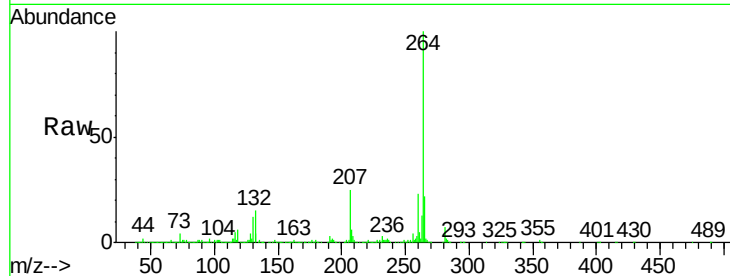
Tgt Ion:264 Resp: 1363405

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

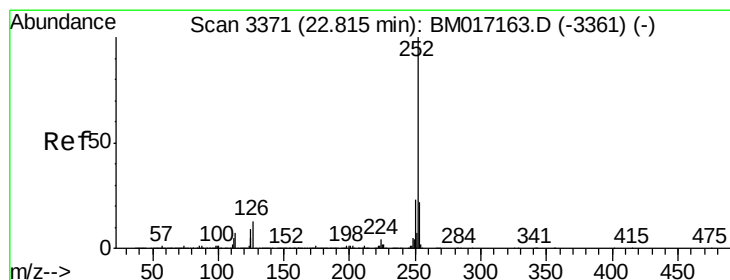
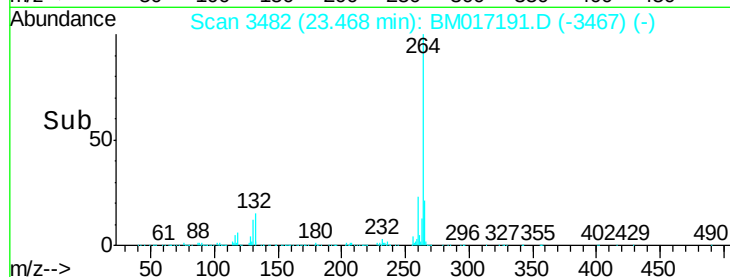
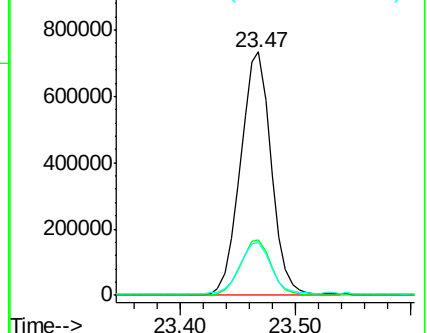
265 21.9 17.8 26.8



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



#88

Benzo(b)fluoranthene

Concen: 22.050 ng

RT: 22.80 min Scan# 3369

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

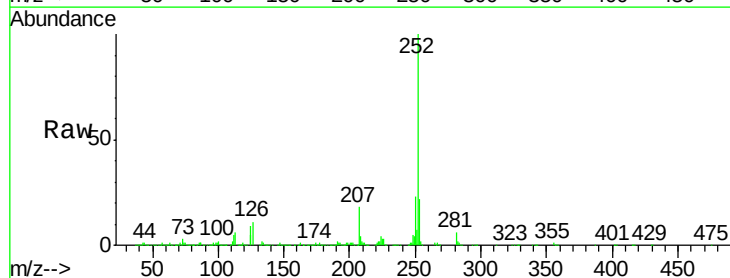
Tgt Ion:252 Resp: 1643647

Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

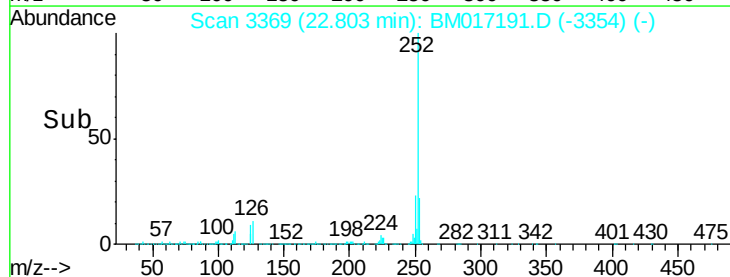
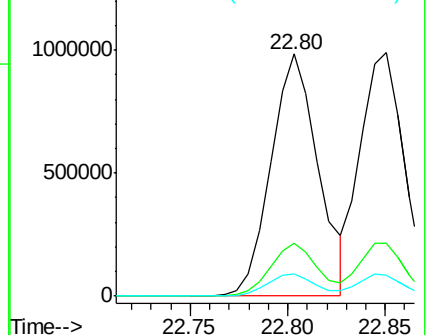
125 9.0 7.5 11.3

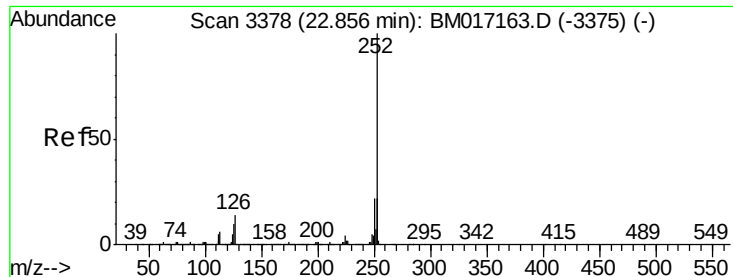


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 20.699 ng

RT: 22.85 min Scan# 3377

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2018

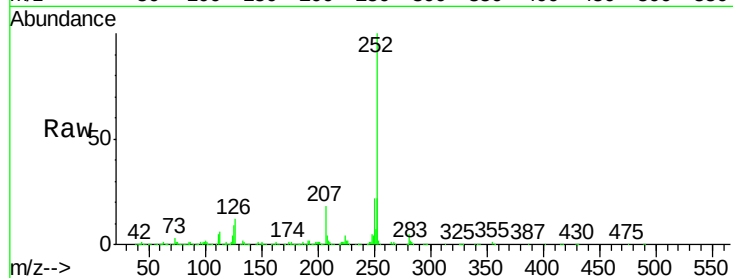
Tgt Ion:252 Resp: 1548227

Ion Ratio Lower Upper

252 100

253 21.6 17.5 26.3

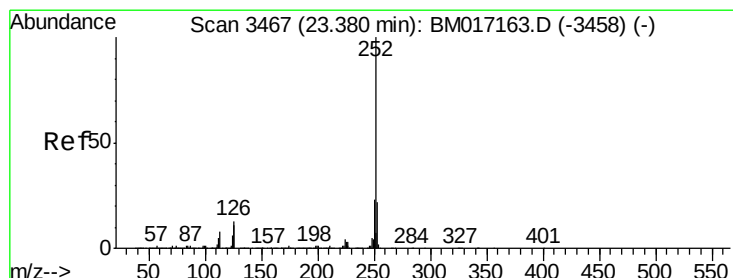
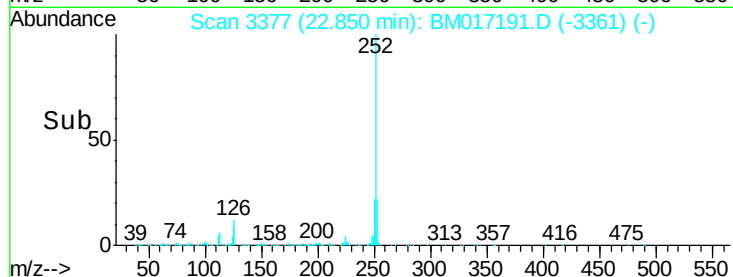
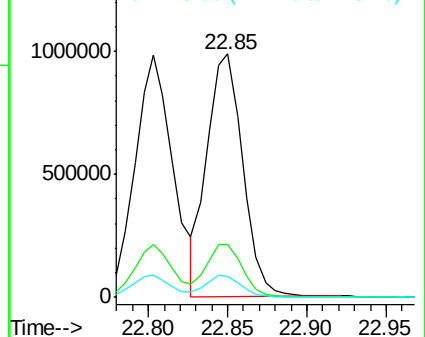
125 8.7 8.2 12.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 21.718 ng

RT: 23.37 min Scan# 3465

Delta R.T. -0.01 min

Lab File: BM017191.D

Acq: 18 Oct 2018 14:01

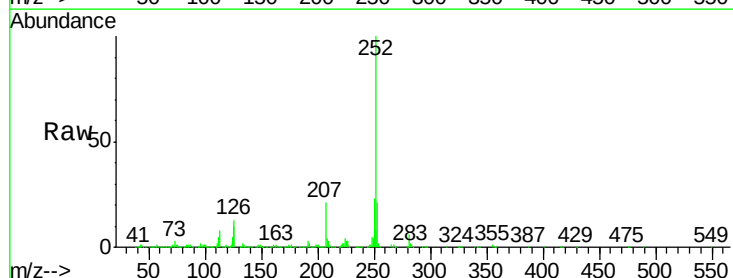
Tgt Ion:252 Resp: 1537072

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.0

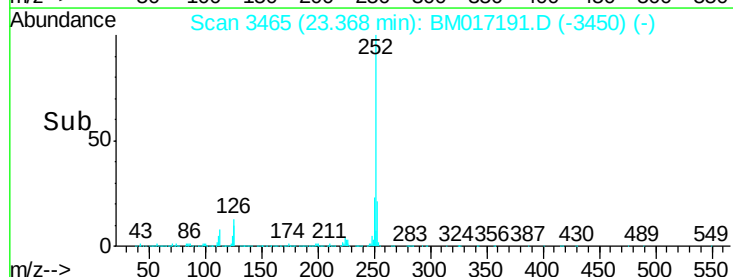
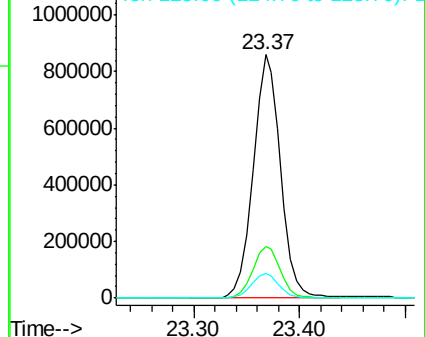
125 10.0 8.6 13.0

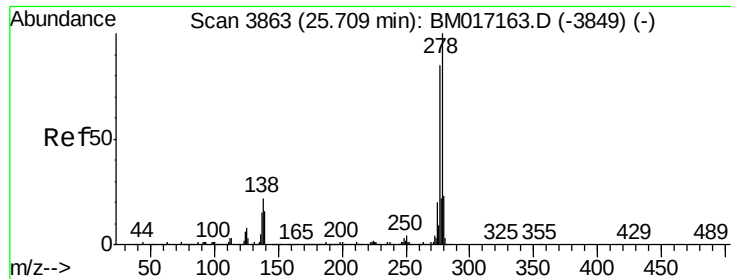


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

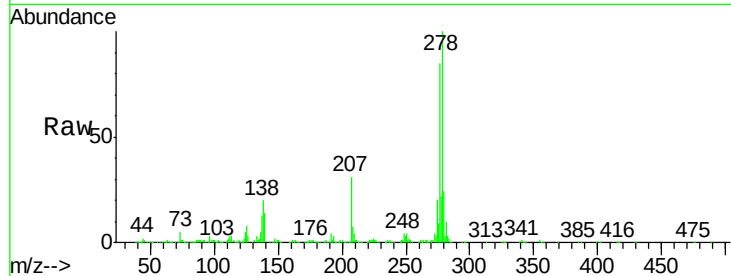




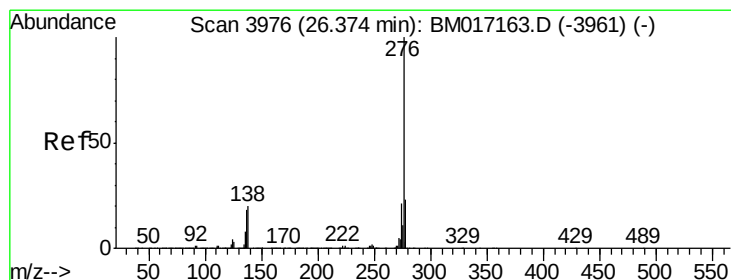
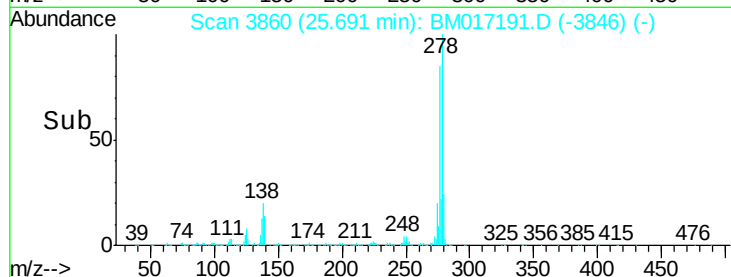
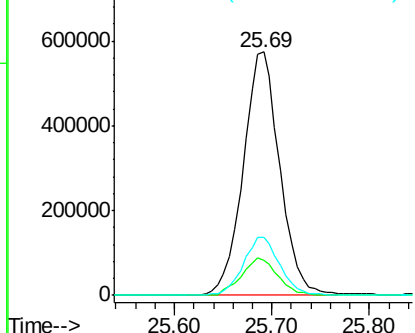
#91
Dibenzo(a,h)anthracene
Concen: 21.449 ng
RT: 25.69 min Scan# 3860
Delta R.T. -0.02 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:278 Resp: 1507406
Ion Ratio Lower Upper
278 100
139 14.5 12.7 19.1
279 23.7 18.7 28.1

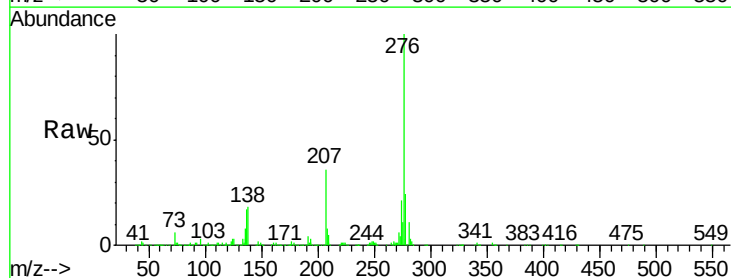


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 21.660 ng
RT: 26.36 min Scan# 3973
Delta R.T. -0.02 min
Lab File: BM017191.D
Acq: 18 Oct 2018 14:01

Tgt Ion:276 Resp: 1508688
Ion Ratio Lower Upper
276 100
277 23.8 18.6 28.0
138 18.4 16.4 24.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

