

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM011723\
 Data File : BM038467.D
 Acq On : 17 Jan 2023 16:53
 Operator : CG/JU
 Sample : N3980-02
 Misc : LOQ-SOIL 10ppm
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT3-2022

Quant Time: Jan 19 04:50:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM011623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 03:06:05 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.975	152	65424	20.000	ng	0.00
21) Naphthalene-d8	10.786	136	231618	20.000	ng	0.00
39) Acenaphthene-d10	14.610	164	145787	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	343021	20.000	ng	0.00
76) Chrysene-d12	21.527	240	384731	20.000	ng	0.00
86) Perylene-d12	23.944	264	463640	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	438460	102.229	ng	-0.01
7) Phenol-d6	7.140	99	542173	98.683	ng	0.00
23) Nitrobenzene-d5	9.151	82	395727	69.614	ng	0.00
42) 2,4,6-Tribromophenol	16.098	330	252408	102.416	ng	0.00
45) 2-Fluorobiphenyl	13.239	172	781402	66.843	ng	0.00
79) Terphenyl-d14	19.968	244	1529399	74.418	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.381	88	17007	8.677	ng	98
3) Pyridine	3.810	79	38295	6.754	ng	97
4) n-Nitrosodimethylamine	3.710	42	28330	8.445	ng	88
6) Aniline	7.304	93	53979	7.778	ng	99
8) 2-Chlorophenol	7.540	128	35256	8.303	ng	98
9) Benzaldehyde	7.116	77	38934	10.597	ng	98
10) Phenol	7.169	94	48016	8.387	ng	97
11) bis(2-Chloroethyl)ether	7.398	93	35645	7.682	ng	89
12) 1,3-Dichlorobenzene	7.863	146	39254	8.629	ng	98
13) 1,4-Dichlorobenzene	8.010	146	40222	8.789	ng	99
14) 1,2-Dichlorobenzene	8.328	146	38210	8.539	ng	94
15) Benzyl Alcohol	8.222	79	35138	7.985	ng	93
16) 2,2'-oxybis(1-Chloropr...	8.504	45	56830	8.785	ng	99
17) 2-Methylphenol	8.422	107	27696	7.162	ng	95
18) Hexachloroethane	9.051	117	16215	8.650	ng	87
19) n-Nitroso-di-n-propyla...	8.787	70	32180	8.069	ng	95
20) 3+4-Methylphenols	8.751	107	37682	7.258	ng	96
22) Acetophenone	8.810	105	58880	8.600	ng	# 95
24) Nitrobenzene	9.192	77	51577	8.587	ng	97
25) Isophorone	9.716	82	80462	7.991	ng	99
26) 2-Nitrophenol	9.904	139	16635	7.889	ng	95
27) 2,4-Dimethylphenol	9.957	122	25214	7.022	ng	99
28) bis(2-Chloroethoxy)met...	10.198	93	45076	7.960	ng	96
29) 2,4-Dichlorophenol	10.439	162	29529	7.444	ng	96
30) 1,2,4-Trichlorobenzene	10.651	180	36726	8.006	ng	99
31) Naphthalene	10.839	128	97097	7.910	ng	99
32) Benzoic acid	10.051	122	15116	9.631	ng	92
33) 4-Chloroaniline	10.957	127	40839	7.580	ng	99
34) Hexachlorobutadiene	11.110	225	26322	8.183	ng	95
35) Caprolactam	11.733	113	7648	6.822	ng	94
36) 4-Chloro-3-methylphenol	12.075	107	32718	7.565	ng	94
37) 2-Methylnaphthalene	12.439	142	65264	7.271	ng	98
38) 1-Methylnaphthalene	12.663	142	62071	7.366	ng	97
40) 1,2,4,5-Tetrachloroben...	12.810	216	43054	7.891	ng	98
41) Hexachlorocyclopentadiene	12.780	237	23104	7.447	ng	96
43) 2,4,6-Trichlorophenol	13.051	196	26357	7.641	ng	99

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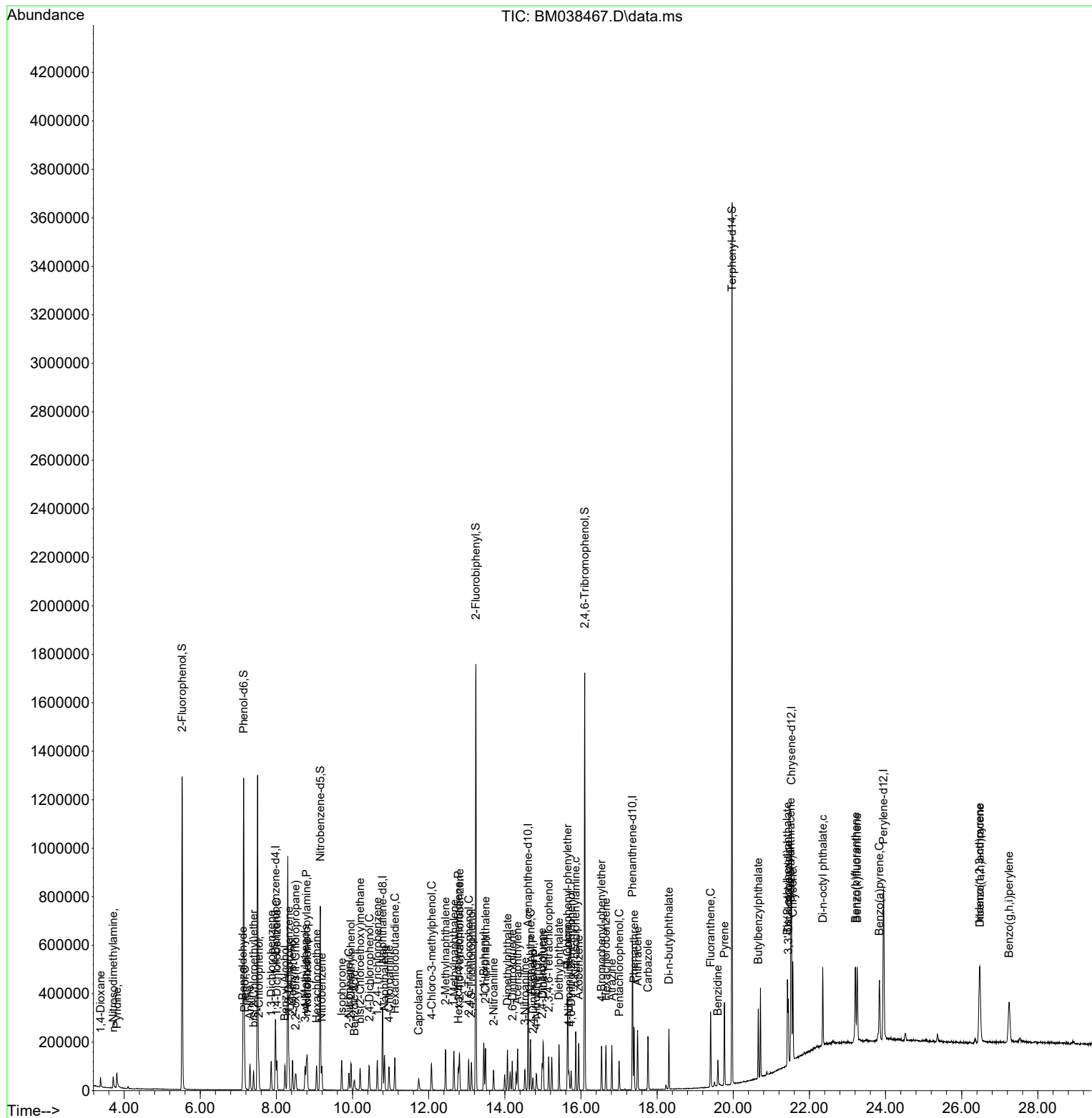
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.122	196	28777	7.076	ng	95
46) 1,1'-Biphenyl	13.445	154	89779	7.938	ng	96
47) 2-Chloronaphthalene	13.492	162	72813	8.179	ng	97
48) 2-Nitroaniline	13.704	65	22876	8.475	ng	96
49) Acenaphthylene	14.333	152	106275	7.572	ng	99
50) Dimethylphthalate	14.069	163	89152	7.546	ng	# 98
51) 2,6-Dinitrotoluene	14.198	165	17109	7.118	ng	94
52) Acenaphthene	14.674	154	64429	7.554	ng	97
53) 3-Nitroaniline	14.527	138	15564	8.207	ng	85
54) 2,4-Dinitrophenol	14.739	184	9803	10.159	ng	91
55) Dibenzofuran	15.010	168	109662	7.551	ng	97
56) 4-Nitrophenol	14.827	139	12432	9.306	ng	# 78
57) 2,4-Dinitrotoluene	14.980	165	23757	7.110	ng	95
58) Fluorene	15.657	166	87469	7.209	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.151	232	26008	7.213	ng	96
60) Diethylphthalate	15.421	149	90762	7.488	ng	97
61) 4-Chlorophenyl-phenyle...	15.645	204	48136	7.227	ng	100
62) 4-Nitroaniline	15.680	138	16459	8.431	ng	94
63) Azobenzene	15.939	77	105153	7.885	ng	99
65) 4,6-Dinitro-2-methylph...	15.739	198	14115	6.064	ng	87
66) n-Nitrosodiphenylamine	15.863	169	75786	7.530	ng	99
67) 4-Bromophenyl-phenylether	16.539	248	28976	7.303	ng	98
68) Hexachlorobenzene	16.657	284	34864	7.847	ng	100
69) Atrazine	16.810	200	29372	8.252	ng	97
70) Pentachlorophenol	17.004	266	20319	6.264	ng	96
71) Phenanthrene	17.392	178	144141	7.595	ng	98
72) Anthracene	17.486	178	141925	7.277	ng	97
73) Carbazole	17.757	167	129428	7.589	ng	98
74) Di-n-butylphthalate	18.310	149	153530	7.579	ng	99
75) Fluoranthene	19.404	202	173870	7.288	ng	97
77) Benzidine	19.592	184	68009	8.068	ng	99
78) Pyrene	19.768	202	191323	7.472	ng	99
80) Butylbenzylphthalate	20.656	149	71793	7.671	ng	95
81) Benzo(a)anthracene	21.509	228	213607	7.720	ng	98
82) 3,3'-Dichlorobenzidine	21.445	252	77566	8.706	ng	# 98
83) Chrysene	21.562	228	202370	7.526	ng	99
84) Bis(2-ethylhexyl)phtha...	21.421	149	103223	7.673	ng	98
85) Di-n-octyl phthalate	22.350	149	184120	7.778	ng	97
87) Indeno(1,2,3-cd)pyrene	26.468	276	244574	7.128	ng	98
88) Benzo(b)fluoranthene	23.209	252	226659	7.884	ng	98
89) Benzo(k)fluoranthene	23.256	252	216867	7.295	ng	99
90) Benzo(a)pyrene	23.839	252	194960	6.910	ng	99
91) Dibenzo(a,h)anthracene	26.480	278	217912	7.568	ng	98
92) Benzo(g,h,i)perylene	27.244	276	217437	7.612	ng	97

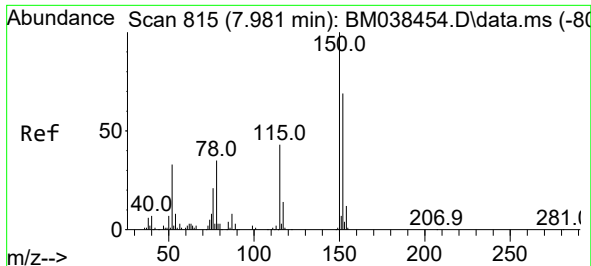
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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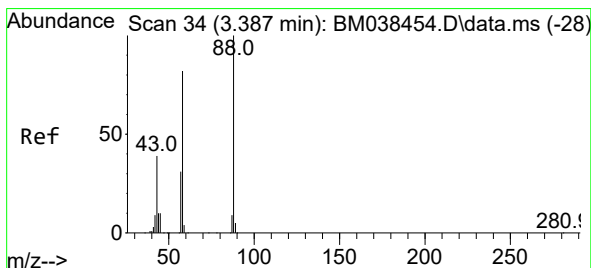
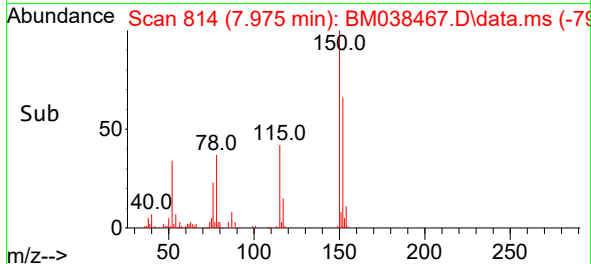
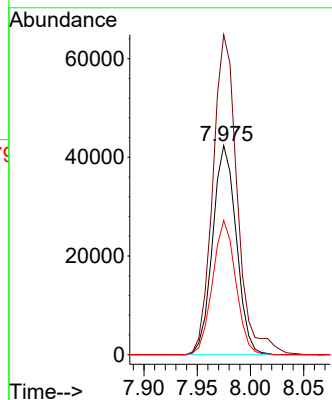
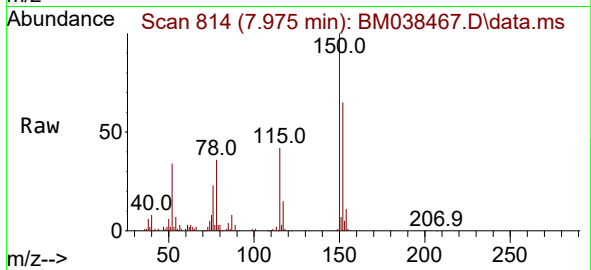




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.975 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

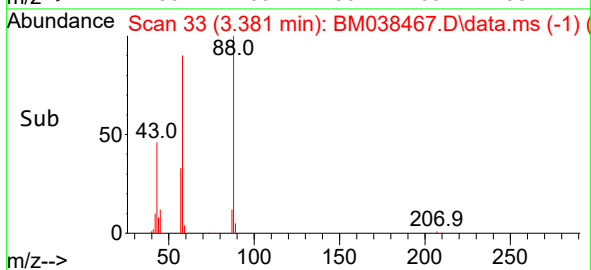
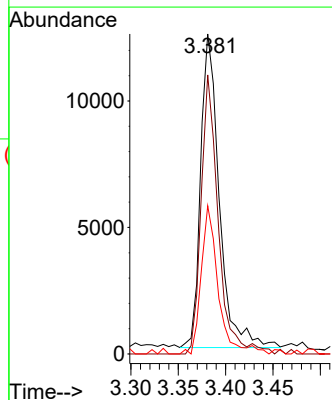
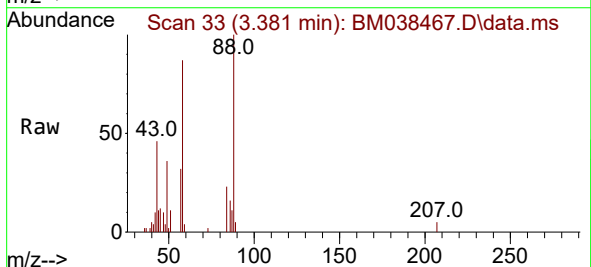
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BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

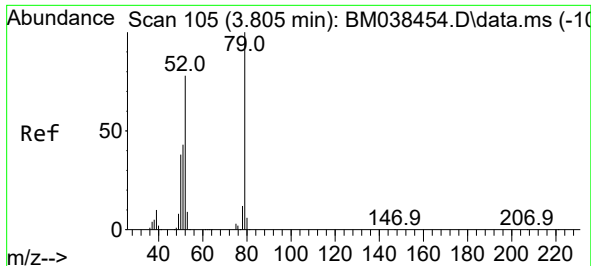
Tgt Ion:152 Resp: 65424
Ion Ratio Lower Upper
152 100
150 153.0 116.0 174.0
115 64.2 49.4 74.2



#2
1,4-Dioxane
Concen: 8.677 ng
RT: 3.381 min Scan# 33
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 88 Resp: 17007
Ion Ratio Lower Upper
88 100
58 81.8 64.3 96.5
43 43.0 32.3 48.5

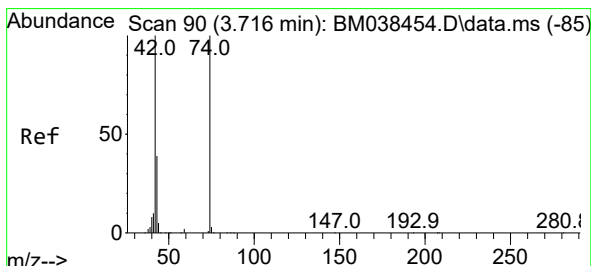
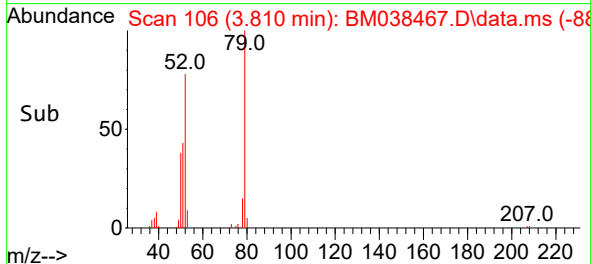
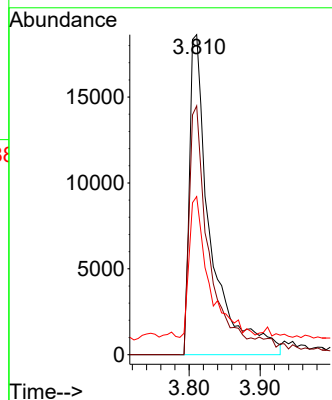
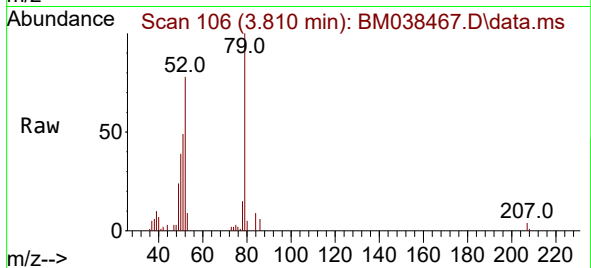




#3
Pyridine
Concen: 6.754 ng
RT: 3.810 min Scan# 106
Delta R.T. 0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

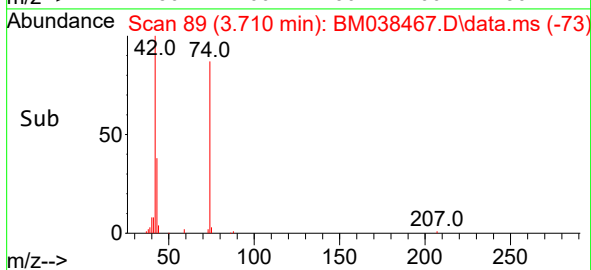
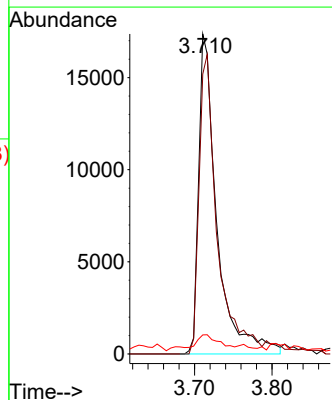
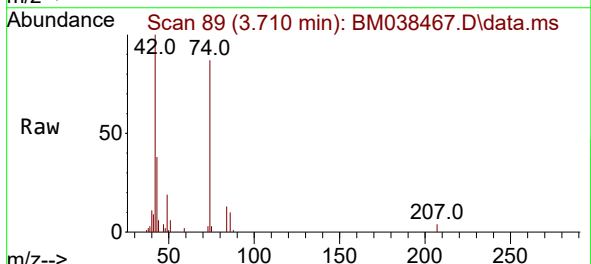
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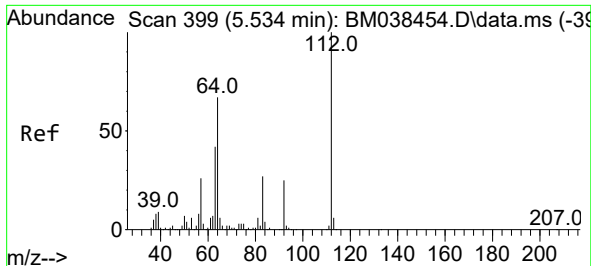
Tgt Ion: 79 Resp: 38295
Ion Ratio Lower Upper
79 100
52 77.7 62.2 93.2
51 49.4 34.8 52.2



#4
n-Nitrosodimethylamine
Concen: 8.445 ng
RT: 3.710 min Scan# 89
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 42 Resp: 28330
Ion Ratio Lower Upper
42 100
74 87.5 79.7 119.5
44 6.0 4.7 7.1

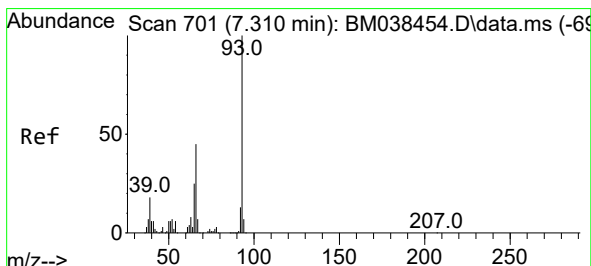
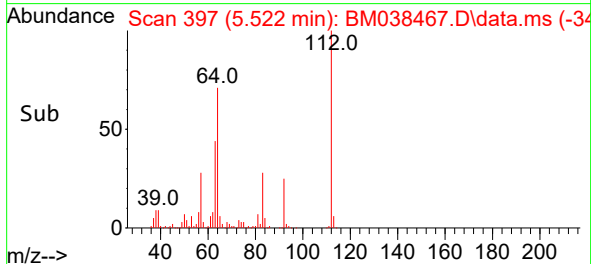
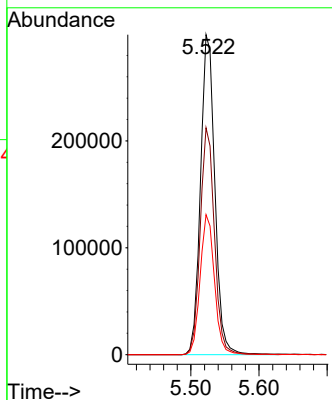
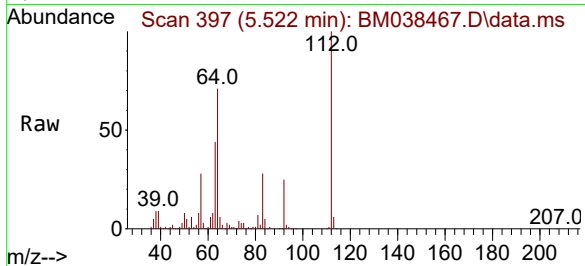




#5
2-Fluorophenol
Concen: 102.229 ng
RT: 5.522 min Scan# 399
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

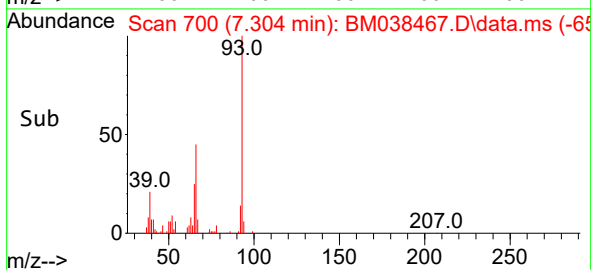
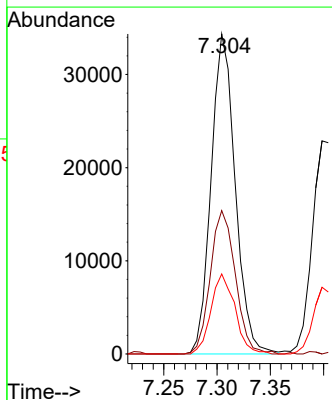
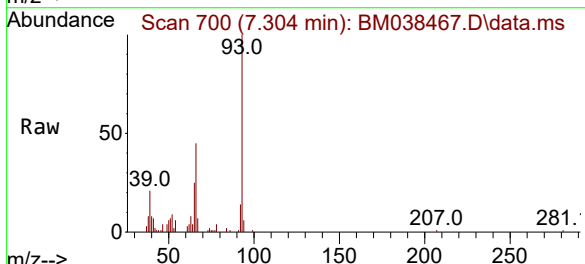
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ClientSampleId :
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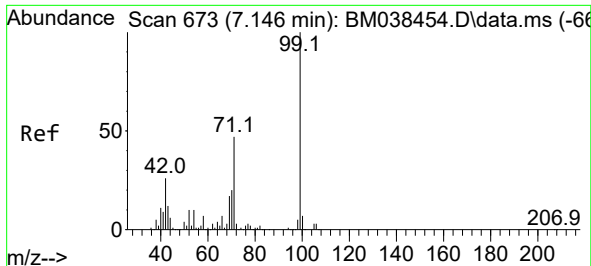
Tgt Ion:112 Resp: 438460
Ion Ratio Lower Upper
112 100
64 70.9 53.7 80.5
63 43.8 33.7 50.5



#6
Aniline
Concen: 7.778 ng
RT: 7.304 min Scan# 700
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 93 Resp: 53979
Ion Ratio Lower Upper
93 100
66 44.8 36.2 54.2
65 25.0 19.8 29.8

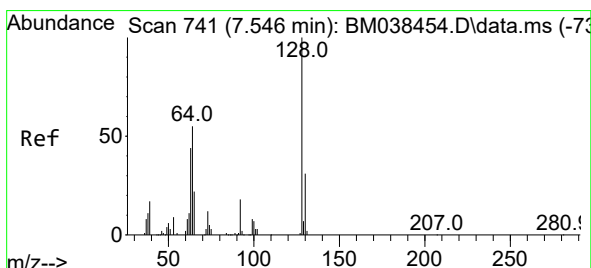
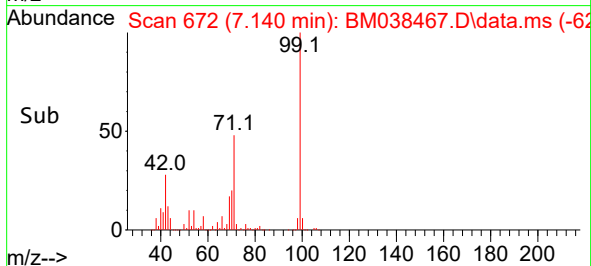
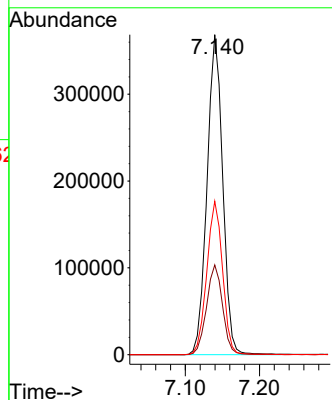
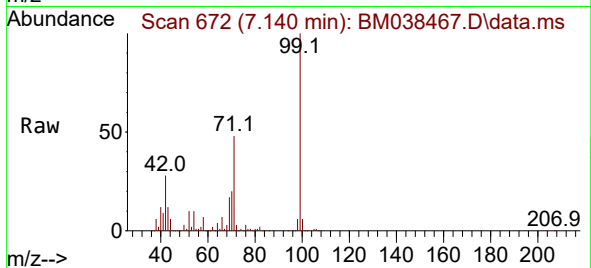




#7
Phenol-d6
Concen: 98.683 ng
RT: 7.140 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

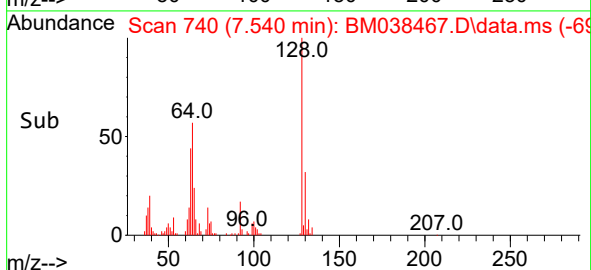
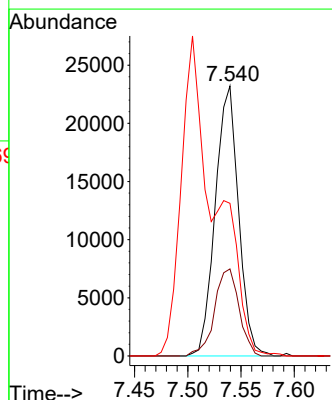
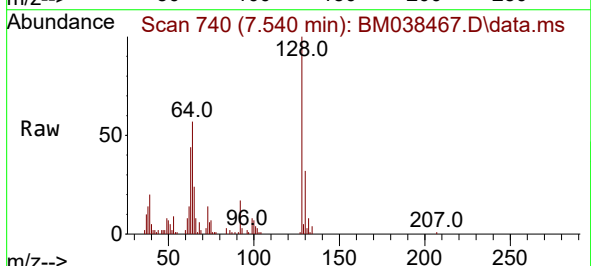
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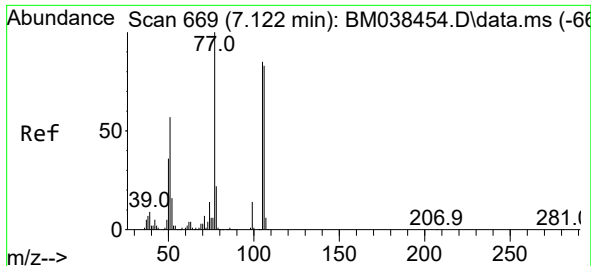
Tgt Ion: 99 Resp: 542173
Ion Ratio Lower Upper
99 100
42 28.1 20.8 31.2
71 47.9 37.8 56.8



#8
2-Chlorophenol
Concen: 8.303 ng
RT: 7.540 min Scan# 740
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 128 Resp: 35256
Ion Ratio Lower Upper
128 100
130 32.2 11.5 51.5
64 56.6 38.0 78.0

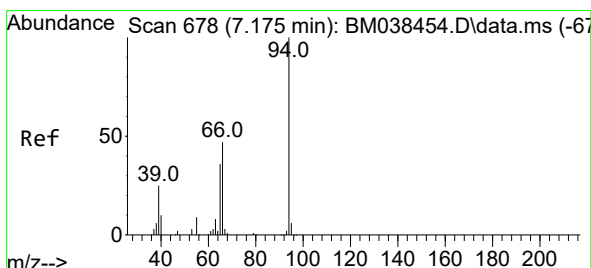
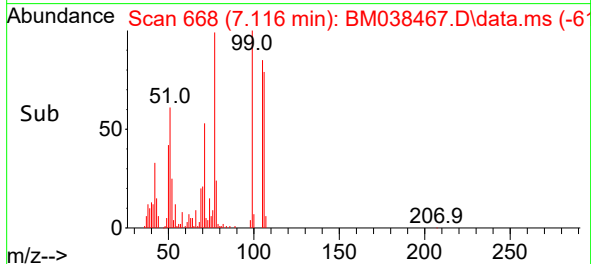
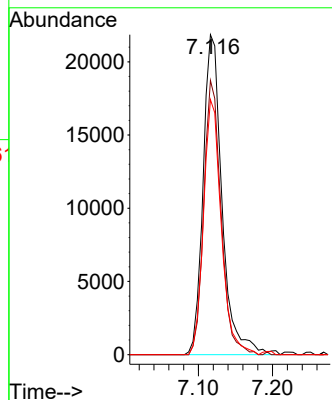
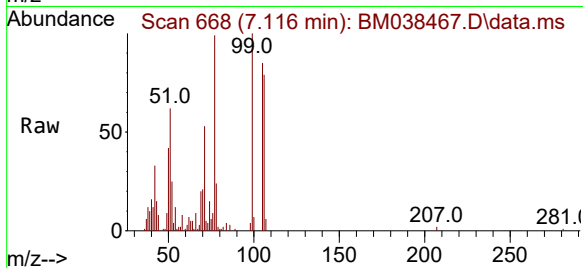




#9
Benzaldehyde
Concen: 10.597 ng
RT: 7.116 min Scan# 60
Delta R.T. -0.006 min
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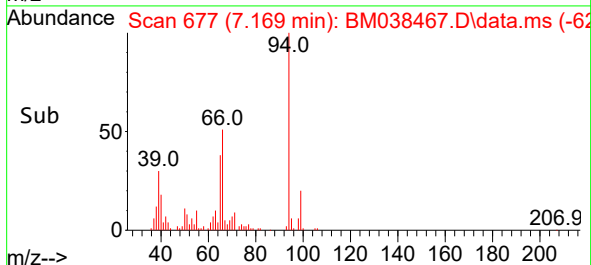
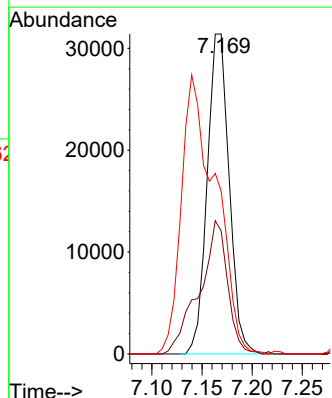
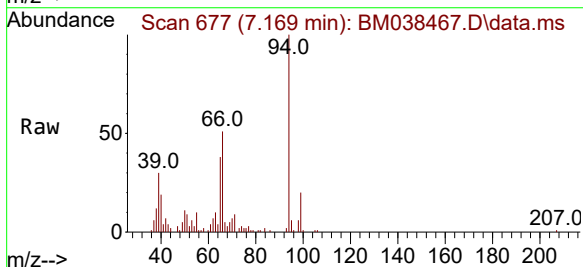
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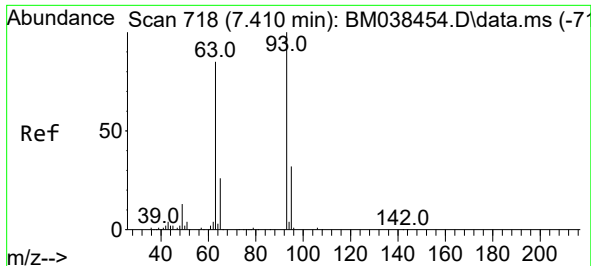
Tgt Ion: 77 Resp: 38934
Ion Ratio Lower Upper
77 100
105 85.7 65.3 105.3
106 79.7 62.5 102.5



#10
Phenol
Concen: 8.387 ng
RT: 7.169 min Scan# 677
Delta R.T. -0.006 min
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Tgt Ion: 94 Resp: 48016
Ion Ratio Lower Upper
94 100
65 38.5 16.3 56.3
66 50.9 29.2 69.2

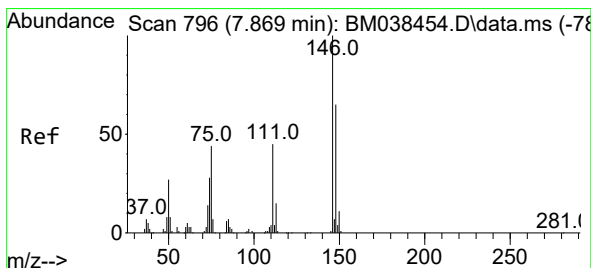
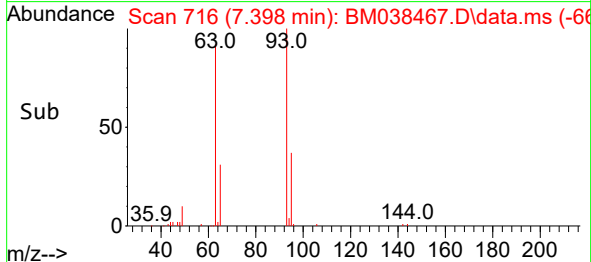
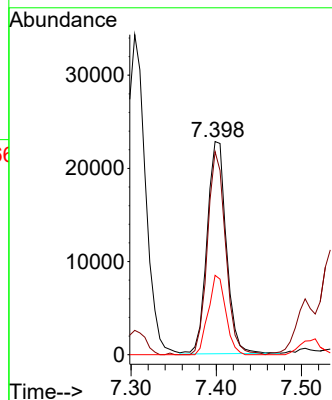
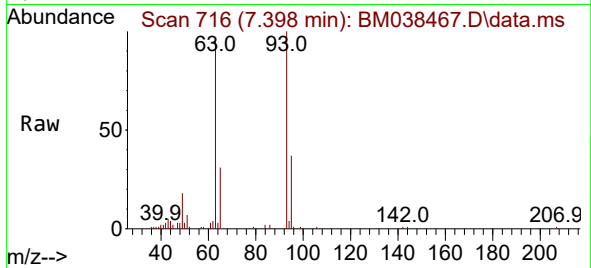




#11
bis(2-Chloroethyl)ether
Concen: 7.682 ng
RT: 7.398 min Scan# 718
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

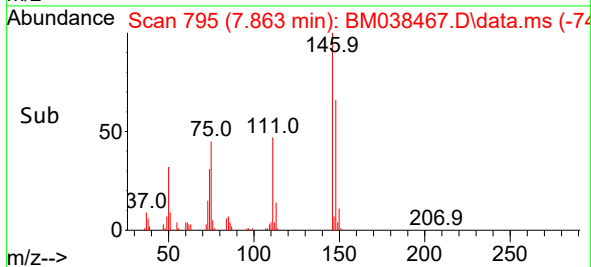
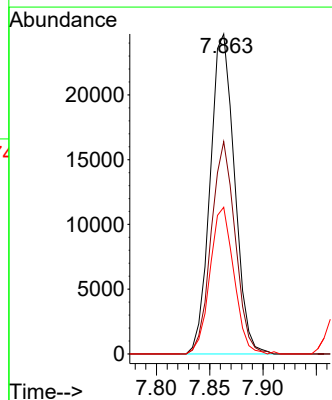
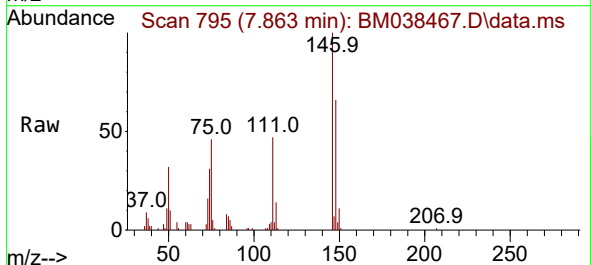
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

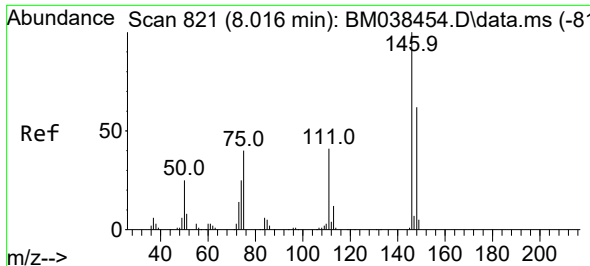
Tgt Ion: 93 Resp: 35645
Ion Ratio Lower Upper
93 100
63 95.3 64.6 104.6
95 37.2 12.0 52.0



#12
1,3-Dichlorobenzene
Concen: 8.629 ng
RT: 7.863 min Scan# 795
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 146 Resp: 39254
Ion Ratio Lower Upper
146 100
148 66.4 51.8 77.8
75 45.8 35.1 52.7





#13

1,4-Dichlorobenzene

Concen: 8.789 ng

RT: 8.010 min Scan# 81

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

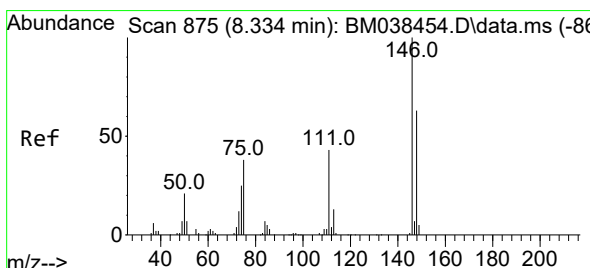
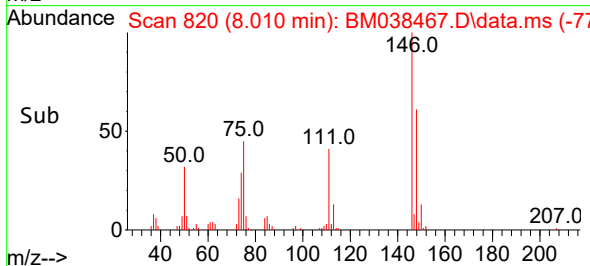
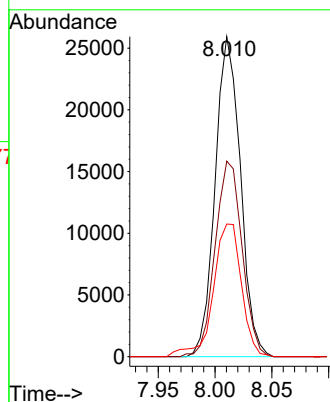
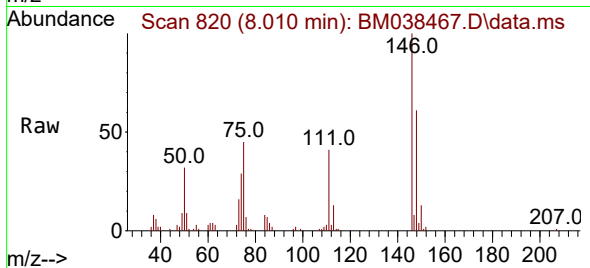
Tgt Ion:146 Resp: 40222

Ion Ratio Lower Upper

146 100

148 61.1 50.1 75.1

111 41.5 32.8 49.2



#14

1,2-Dichlorobenzene

Concen: 8.539 ng

RT: 8.328 min Scan# 874

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

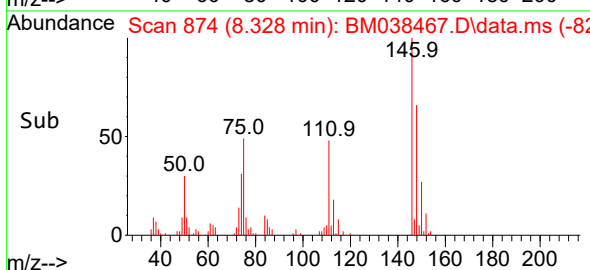
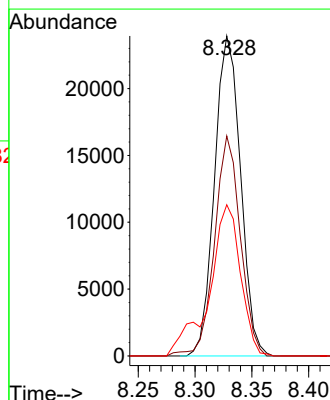
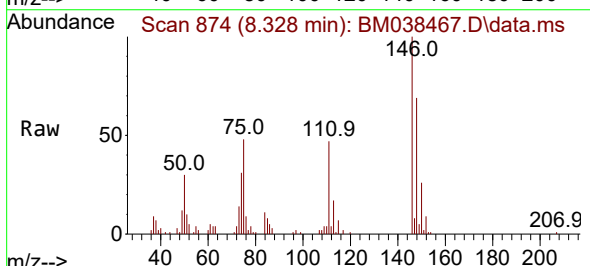
Tgt Ion:146 Resp: 38210

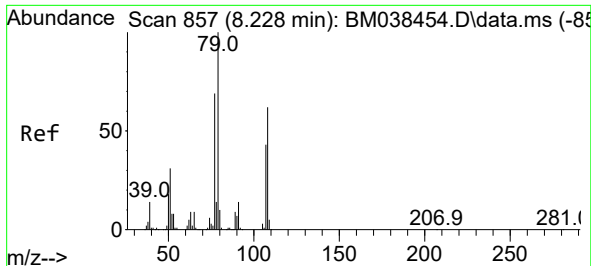
Ion Ratio Lower Upper

146 100

148 68.8 50.7 76.1

111 47.2 35.2 52.8

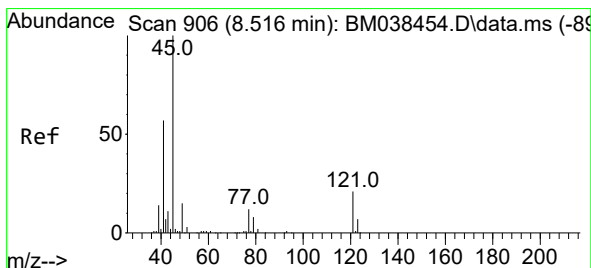
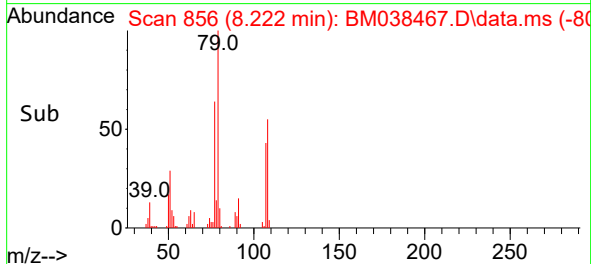
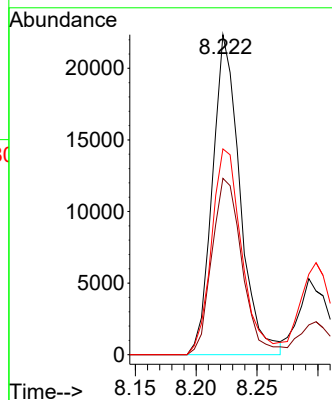
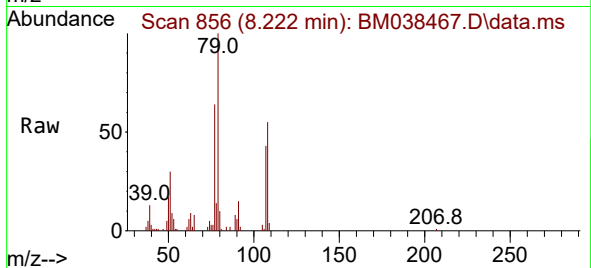




#15
Benzyl Alcohol
Concen: 7.985 ng
RT: 8.222 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

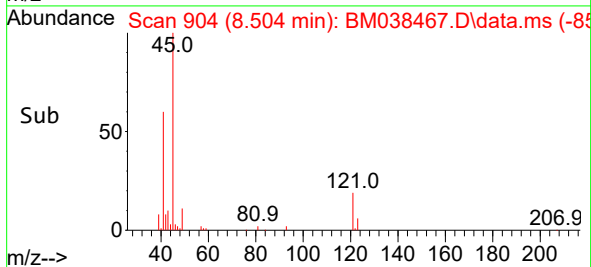
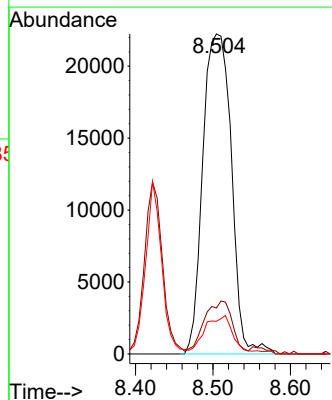
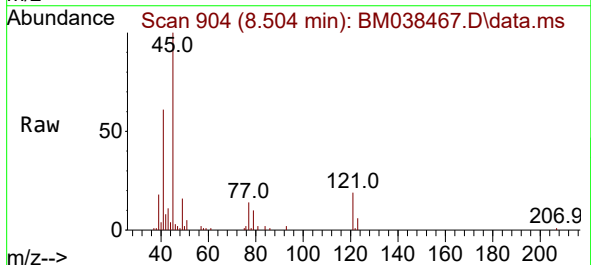
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

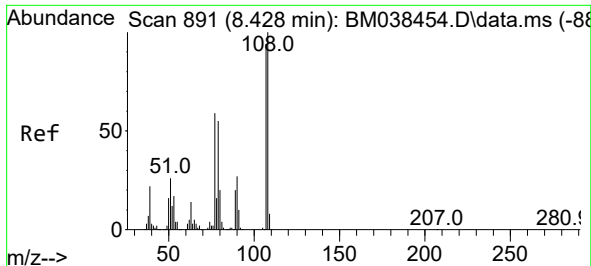
Tgt Ion: 79 Resp: 35138
Ion Ratio Lower Upper
79 100
108 55.1 49.3 73.9
77 64.3 55.1 82.7



#16
2,2'-oxybis(1-Chloropropane)
Concen: 8.785 ng
RT: 8.504 min Scan# 904
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 45 Resp: 56830
Ion Ratio Lower Upper
45 100
77 14.3 0.0 34.7
79 10.2 0.0 30.4

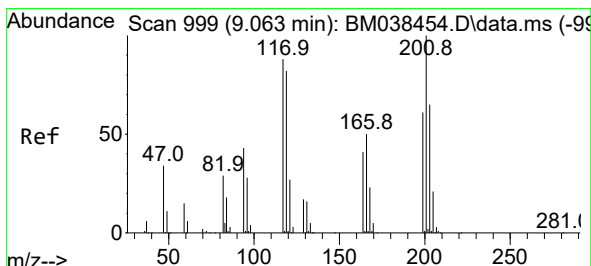
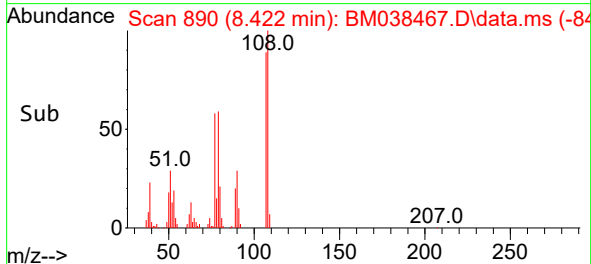
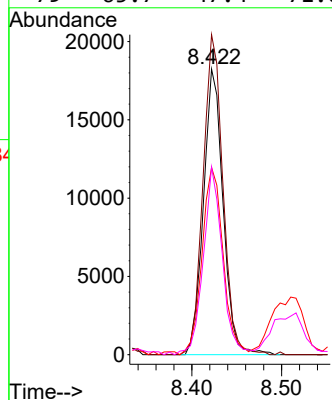
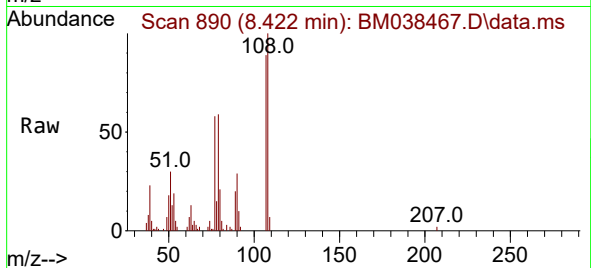




#17
2-Methylphenol
Concen: 7.162 ng
RT: 8.422 min Scan# 891
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

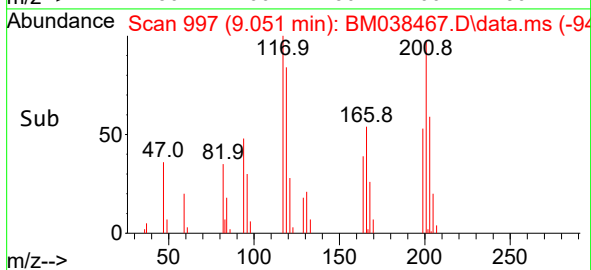
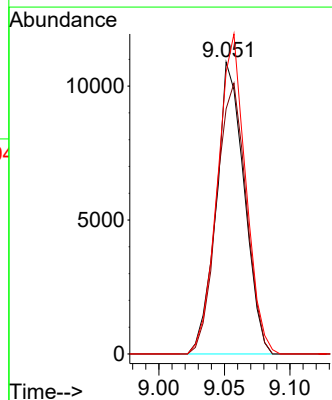
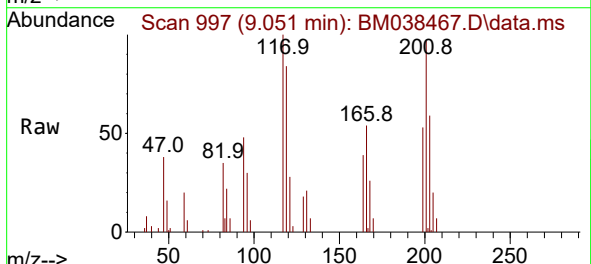
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

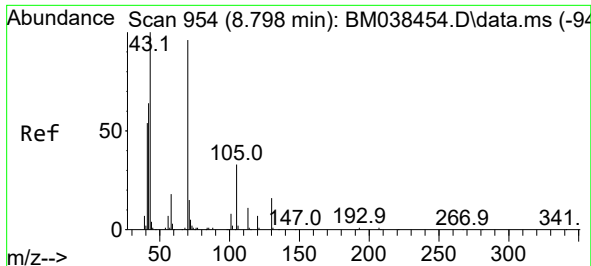
Tgt Ion:	107	Resp:	27696
Ion Ratio	Lower	Upper	
107	100		
108	112.0	85.7	128.5
77	65.5	50.5	75.7
79	65.7	47.4	71.0



#18
Hexachloroethane
Concen: 8.650 ng
RT: 9.051 min Scan# 997
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:	117	Resp:	16215
Ion Ratio	Lower	Upper	
117	100		
119	84.0	74.5	111.7
201	96.6	91.3	136.9

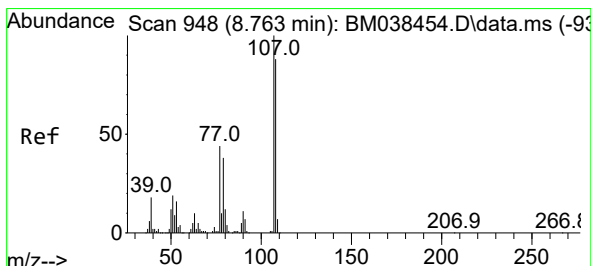
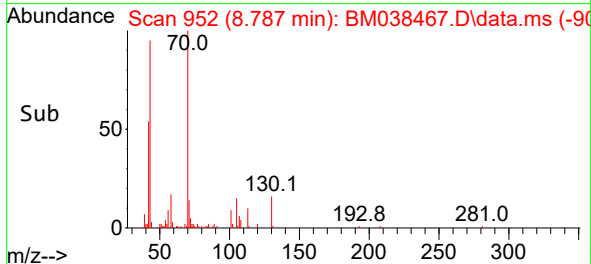
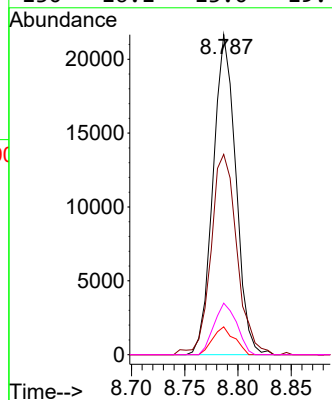
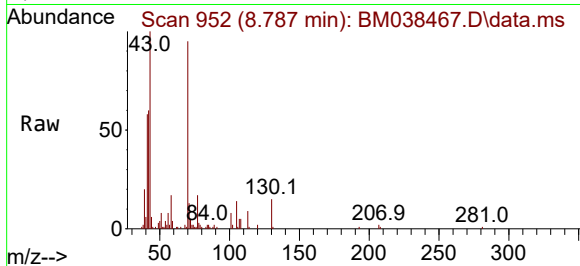




#19
n-Nitroso-di-n-propylamine
Concen: 8.069 ng
RT: 8.787 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

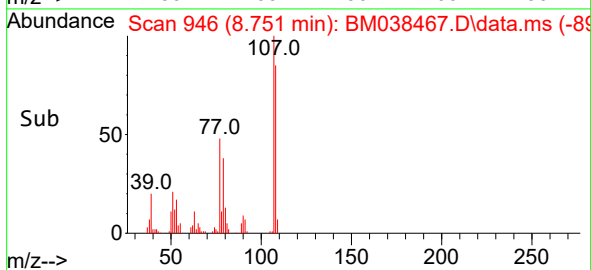
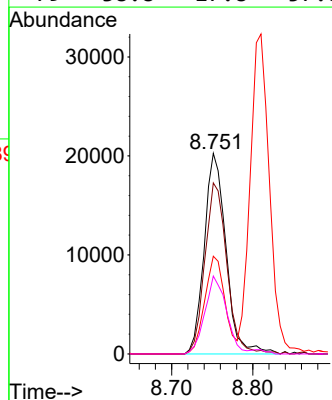
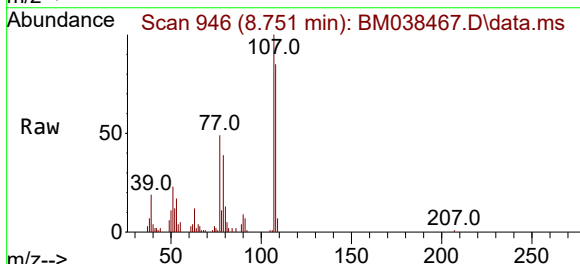
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

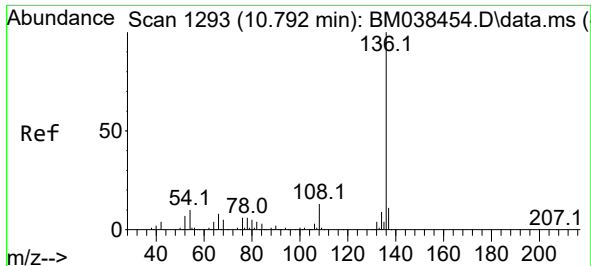
Tgt Ion:	70	Resp:	32180
Ion	Ratio	Lower	Upper
70	100		
42	62.6	54.2	81.2
101	8.7	6.6	10.0
130	16.1	13.0	19.4



#20
3+4-Methylphenols
Concen: 7.258 ng
RT: 8.751 min Scan# 946
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:	107	Resp:	37682
Ion	Ratio	Lower	Upper
107	100		
108	85.2	67.6	107.6
77	48.7	24.1	64.1
79	38.8	17.8	57.8

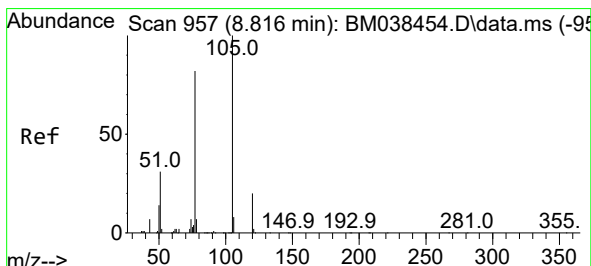
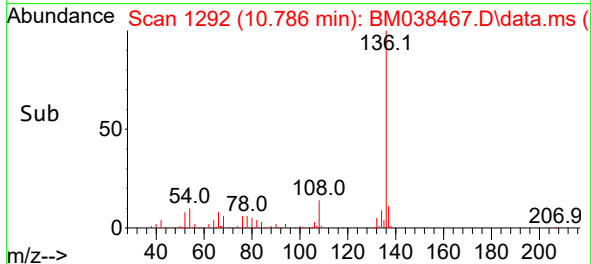
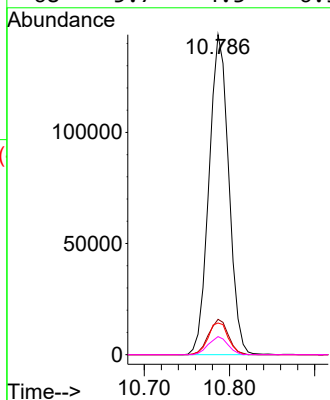
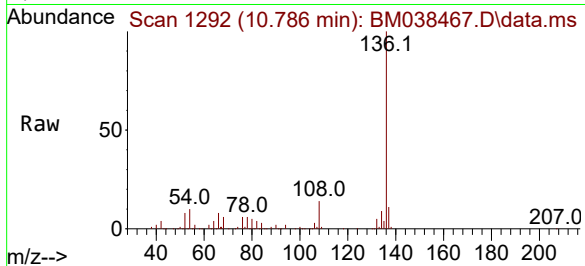




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.786 min Scan# 1292
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

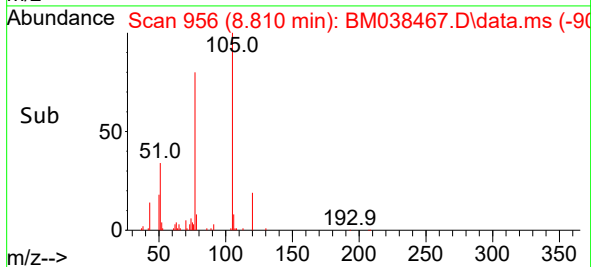
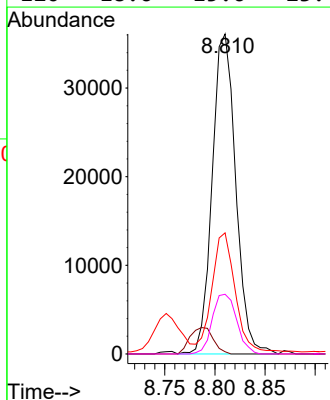
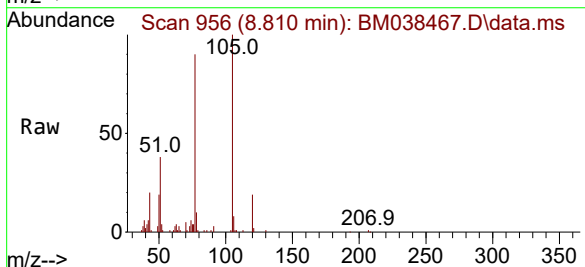
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

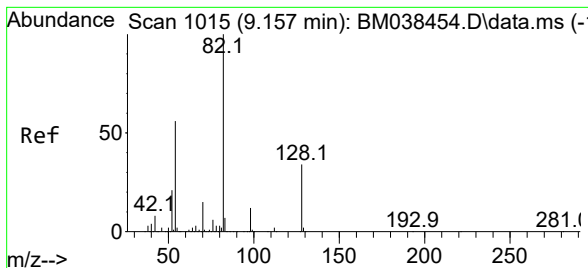
Tgt Ion:	136	Resp:	231618
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	9.9	7.6	11.4
68	5.7	4.3	6.5



#22
Acetophenone
Concen: 8.600 ng
RT: 8.810 min Scan# 956
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:	105	Resp:	58880
Ion	Ratio	Lower	Upper
105	100		
71	0.7	1.0	1.6#
51	37.8	27.4	41.2
120	18.6	15.6	23.4





#23

Nitrobenzene-d5

Concen: 69.614 ng

RT: 9.151 min Scan# 1015

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

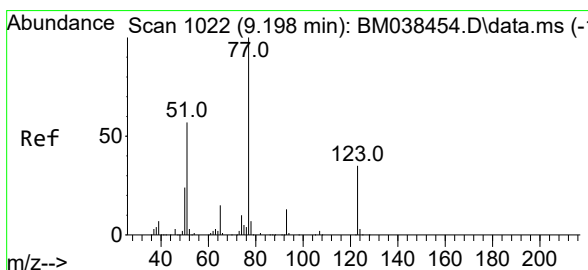
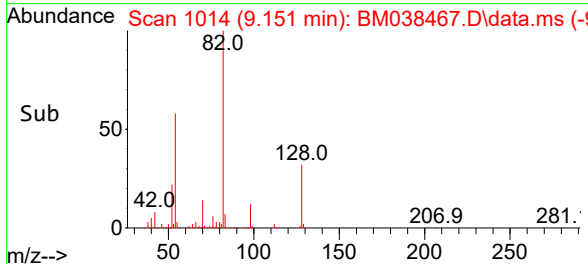
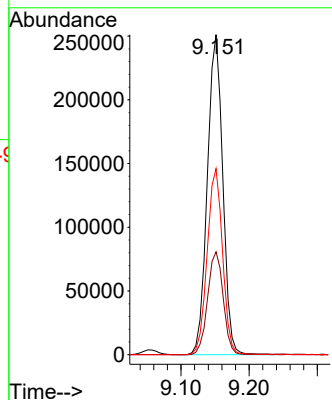
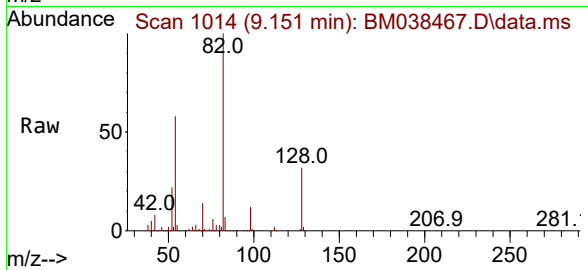
Tgt Ion: 82 Resp: 395727

Ion Ratio Lower Upper

82 100

128 32.1 27.0 40.6

54 58.2 45.0 67.6



#24

Nitrobenzene

Concen: 8.587 ng

RT: 9.192 min Scan# 1021

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

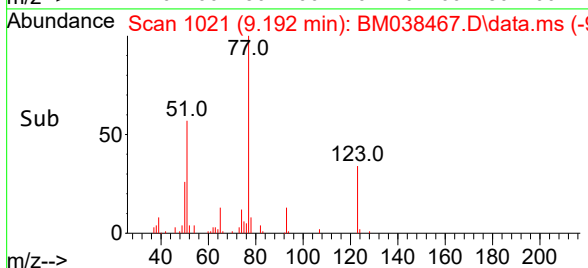
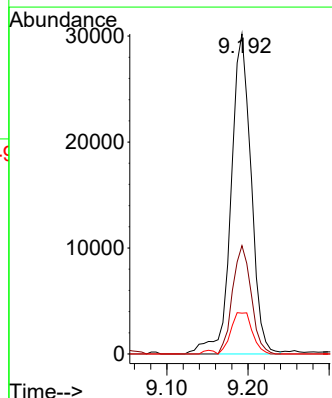
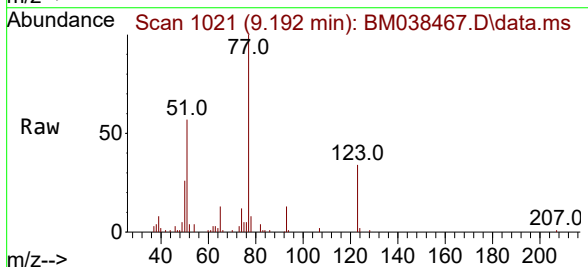
Tgt Ion: 77 Resp: 51577

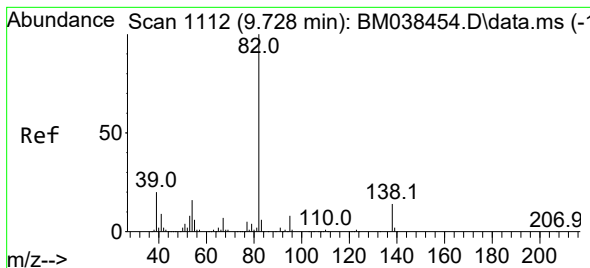
Ion Ratio Lower Upper

77 100

123 33.9 28.2 42.4

65 12.8 12.1 18.1





#25

Isophorone

Concen: 7.991 ng

RT: 9.716 min Scan# 1110

Delta R.T. -0.012 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

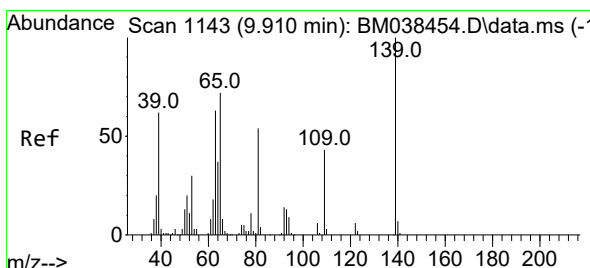
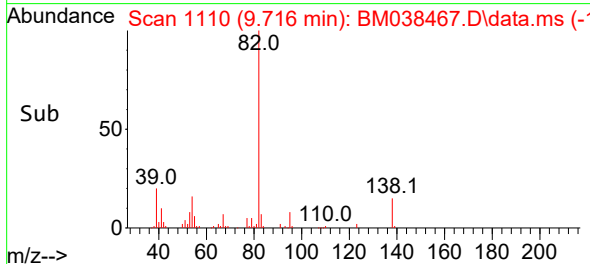
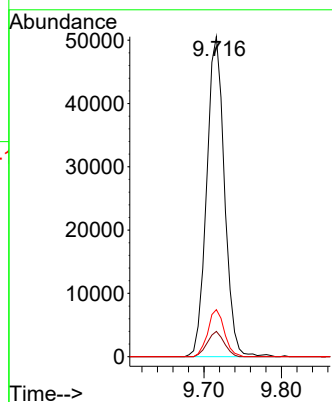
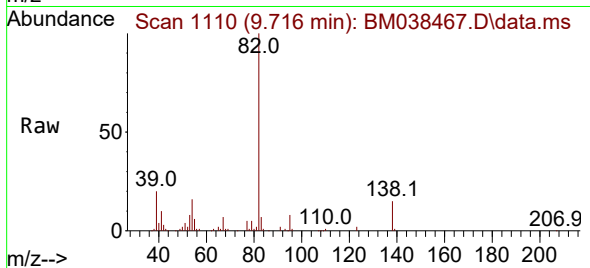
Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

Tgt Ion:	82	Resp:	80462
Ion Ratio	Lower	Upper	
82	100		
95	7.9	6.1	9.1
138	14.7	11.5	17.3



#26

2-Nitrophenol

Concen: 7.889 ng

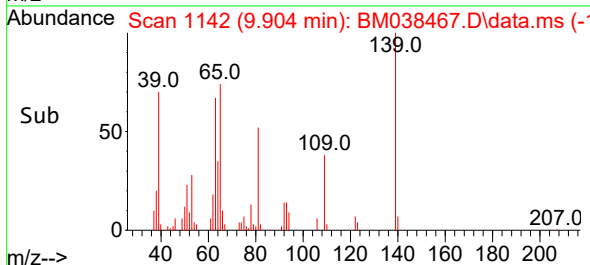
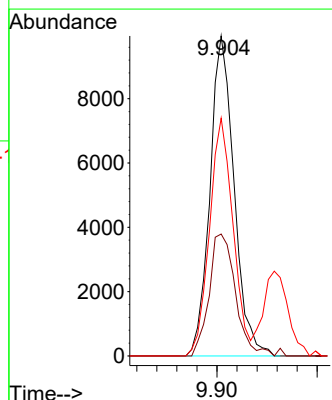
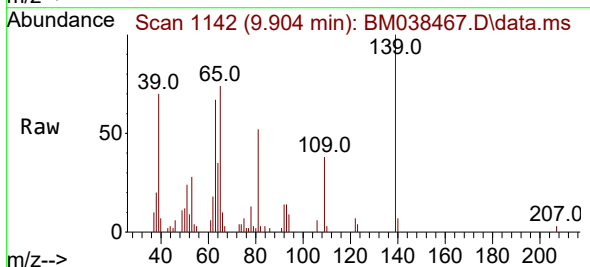
RT: 9.904 min Scan# 1142

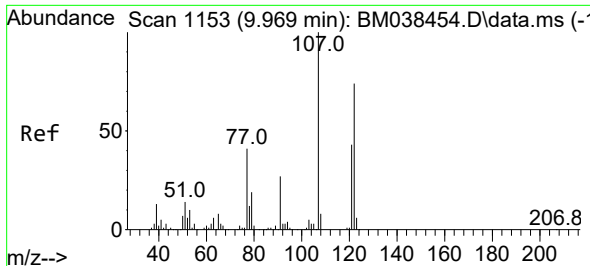
Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Tgt Ion:	139	Resp:	16635
Ion Ratio	Lower	Upper	
139	100		
109	38.1	34.7	52.1
65	74.3	57.4	86.0

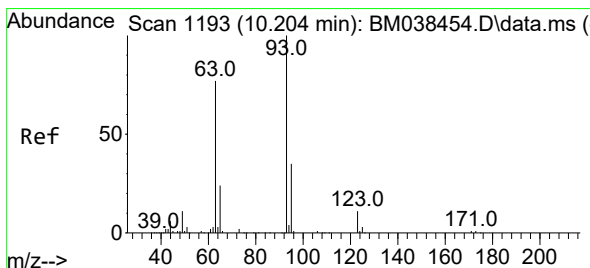
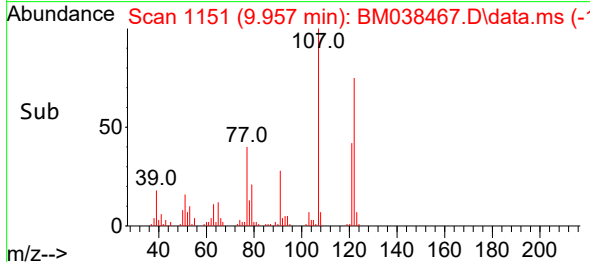
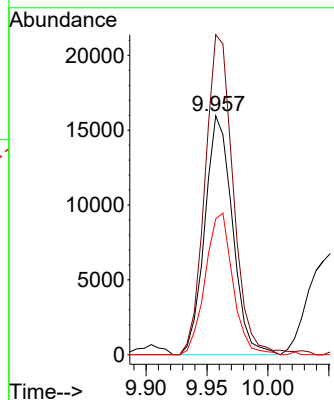
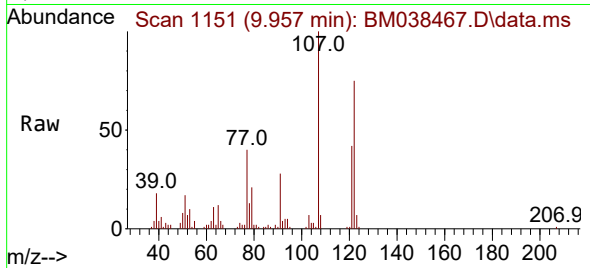




#27
2,4-Dimethylphenol
Concen: 7.022 ng
RT: 9.957 min Scan# 1151
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

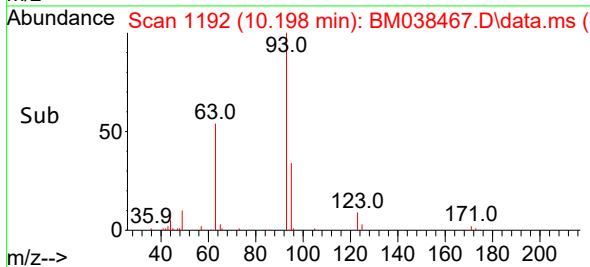
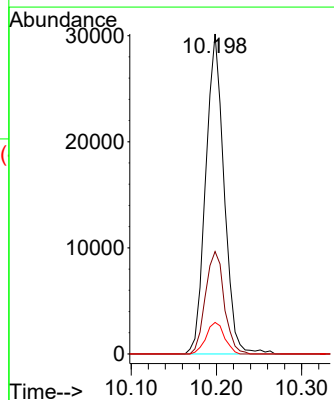
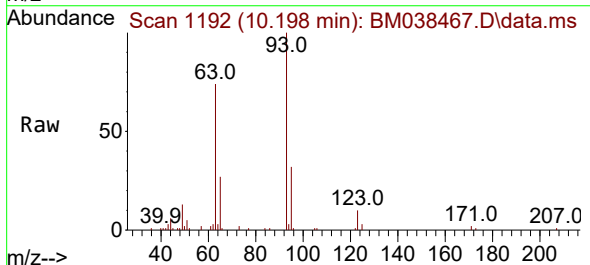
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

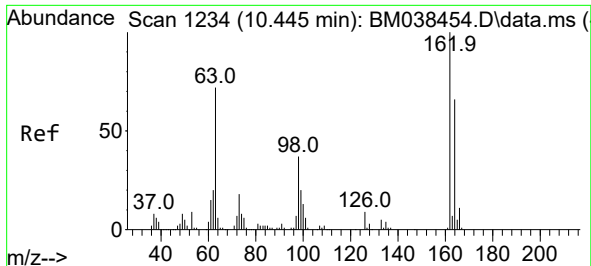
Tgt Ion:122 Resp: 25214
Ion Ratio Lower Upper
122 100
107 134.0 107.4 161.0
121 56.8 46.6 70.0



#28
bis(2-Chloroethoxy)methane
Concen: 7.960 ng
RT: 10.198 min Scan# 1192
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 93 Resp: 45076
Ion Ratio Lower Upper
93 100
95 32.0 27.7 41.5
123 9.9 8.6 13.0





#29

2,4-Dichlorophenol

Concen: 7.444 ng

RT: 10.439 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

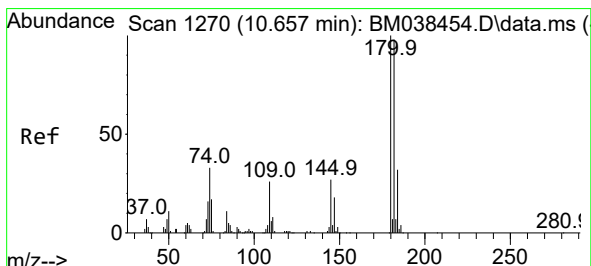
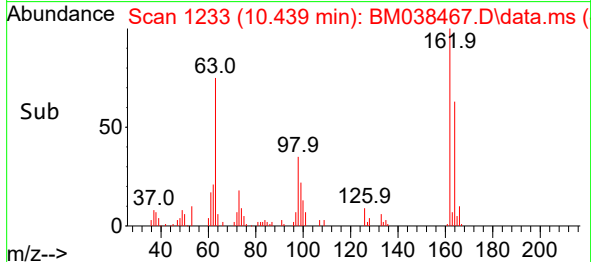
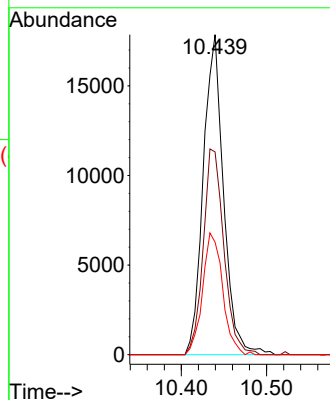
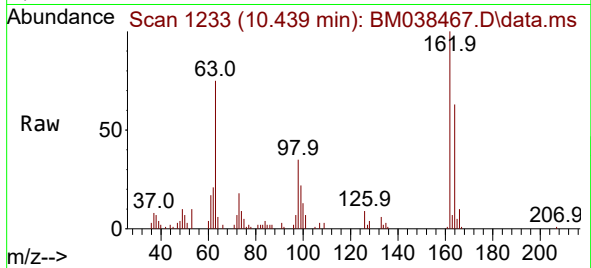
Tgt Ion:162 Resp: 29529

Ion Ratio Lower Upper

162 100

164 63.3 46.5 86.5

98 35.2 17.1 57.1



#30

1,2,4-Trichlorobenzene

Concen: 8.006 ng

RT: 10.651 min Scan# 1269

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

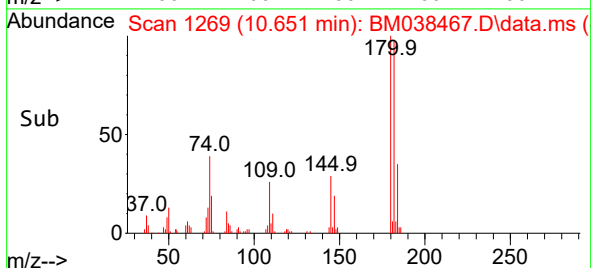
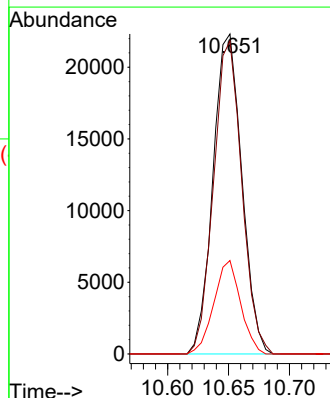
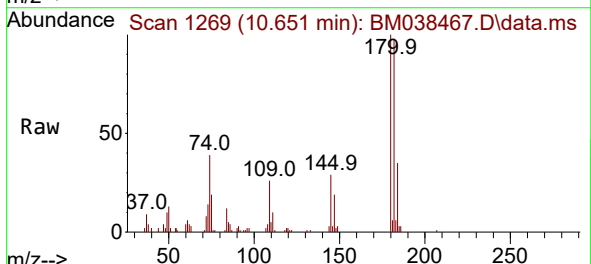
Tgt Ion:180 Resp: 36726

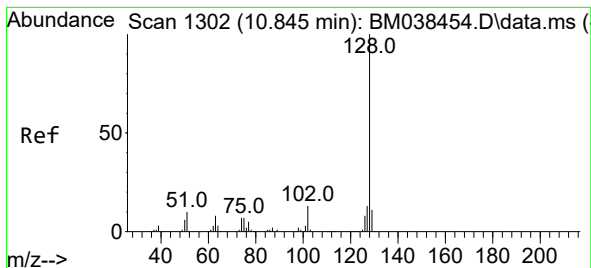
Ion Ratio Lower Upper

180 100

182 97.8 78.1 117.1

145 29.2 21.9 32.9





#31

Naphthalene

Concen: 7.910 ng

RT: 10.839 min Scan# 1167

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

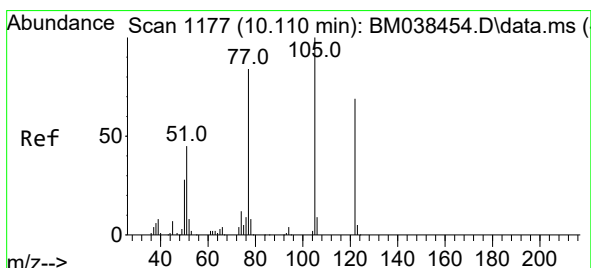
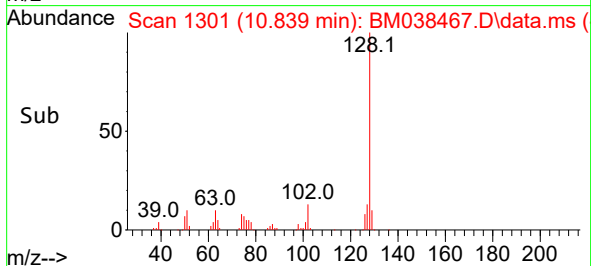
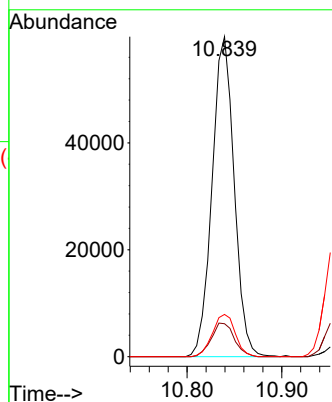
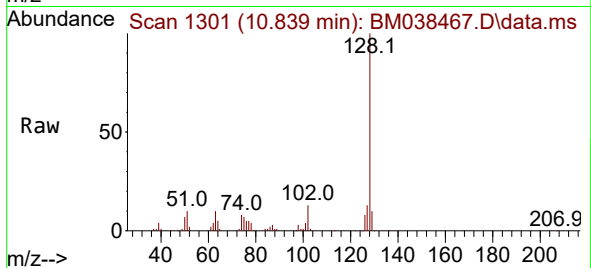
Tgt Ion:128 Resp: 97097

Ion Ratio Lower Upper

128 100

129 10.3 8.9 13.3

127 13.2 10.8 16.2



#32

Benzoic acid

Concen: 9.631 ng

RT: 10.051 min Scan# 1167

Delta R.T. -0.059 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

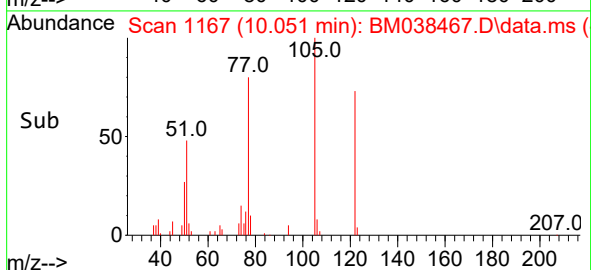
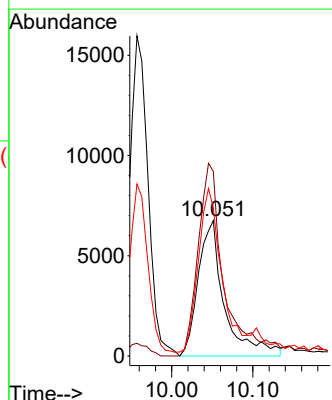
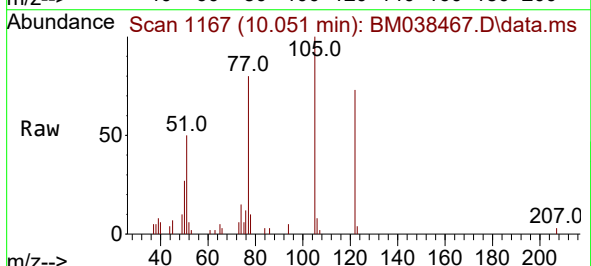
Tgt Ion:122 Resp: 15116

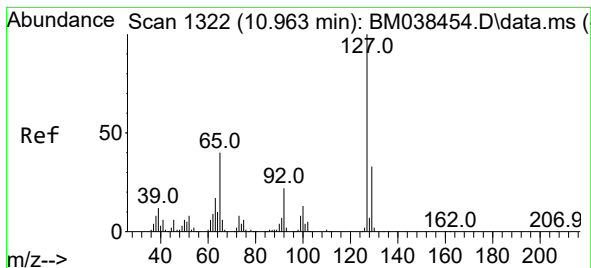
Ion Ratio Lower Upper

122 100

105 136.2 122.6 162.6

77 109.2 101.5 141.5





#33

4-Chloroaniline

Concen: 7.580 ng

RT: 10.957 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038467.D

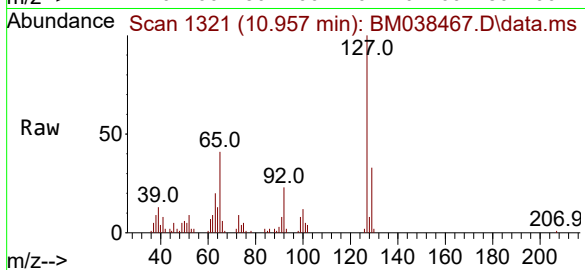
Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022



Tgt Ion:127 Resp: 40839

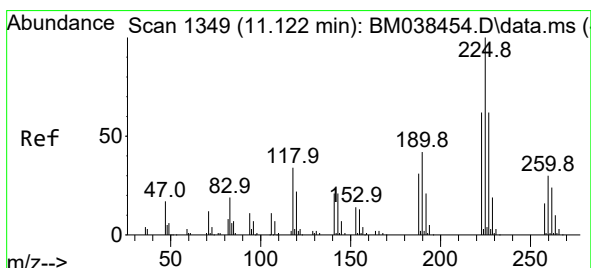
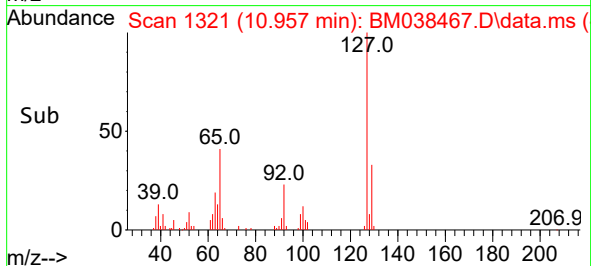
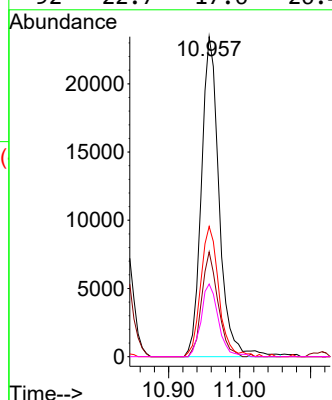
Ion Ratio Lower Upper

127 100

129 32.7 26.4 39.6

65 40.7 32.1 48.1

92 22.7 17.6 26.4



#34

Hexachlorobutadiene

Concen: 8.183 ng

RT: 11.110 min Scan# 1347

Delta R.T. -0.012 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

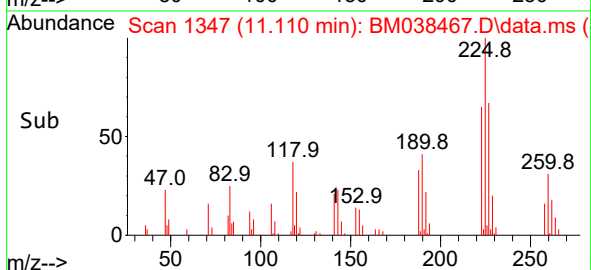
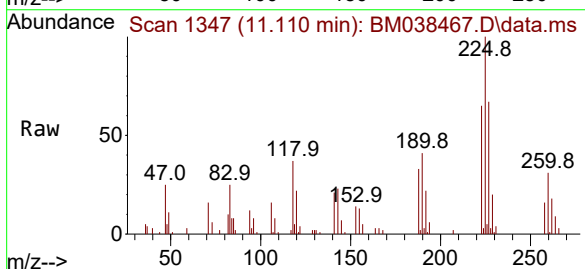
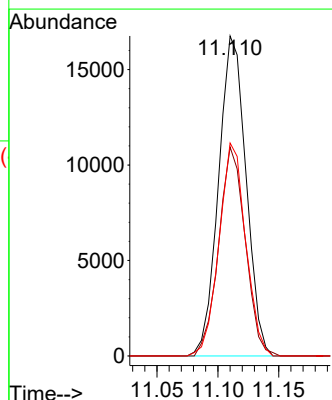
Tgt Ion:225 Resp: 26322

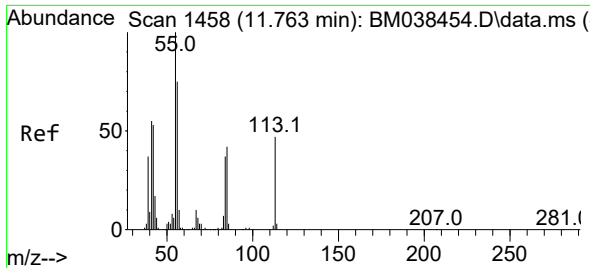
Ion Ratio Lower Upper

225 100

223 65.2 49.8 74.8

227 66.5 49.6 74.4

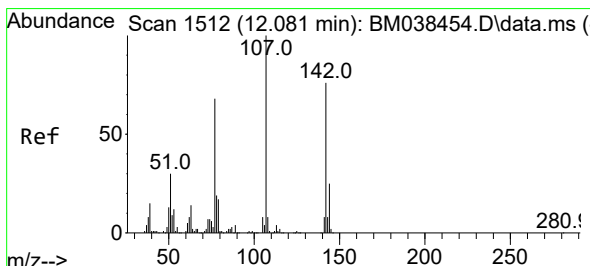
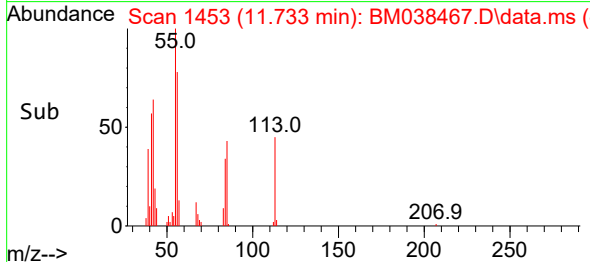
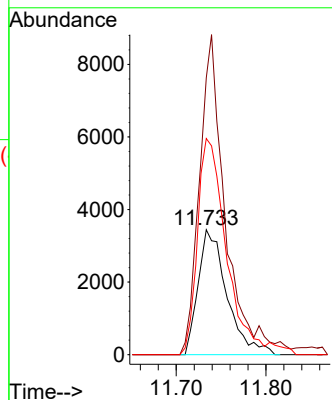
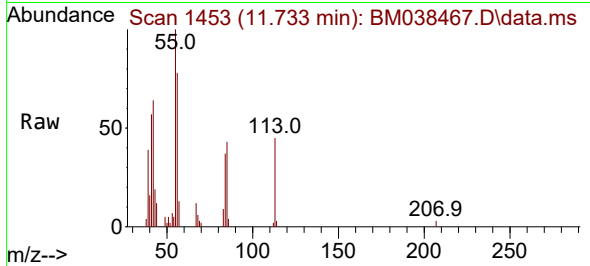




#35
Caprolactam
Concen: 6.822 ng
RT: 11.733 min Scan# 1458
Delta R.T. -0.029 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

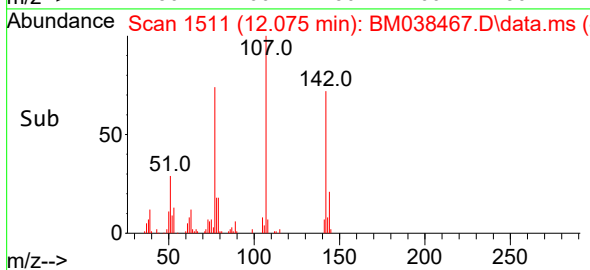
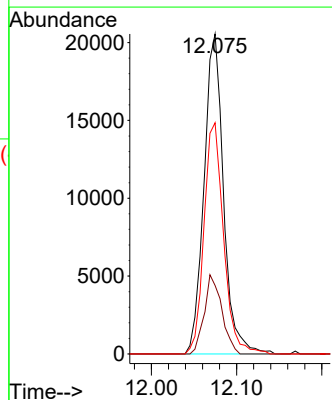
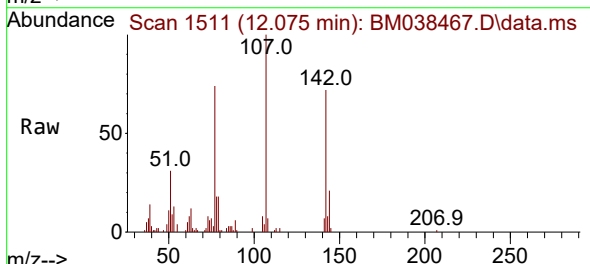
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

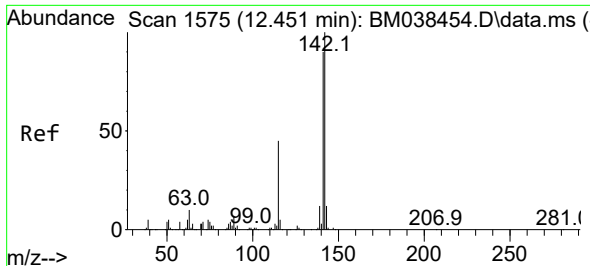
Tgt Ion:113 Resp: 7648
Ion Ratio Lower Upper
113 100
55 221.6 194.2 234.2
56 173.0 141.6 181.6



#36
4-Chloro-3-methylphenol
Concen: 7.565 ng
RT: 12.075 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:107 Resp: 32718
Ion Ratio Lower Upper
107 100
144 21.4 20.3 30.5
142 72.3 61.2 91.8

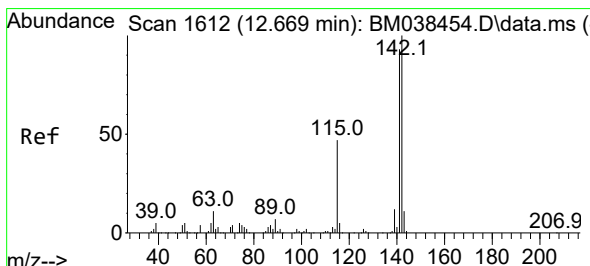
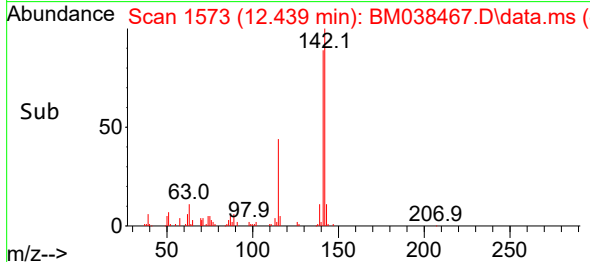
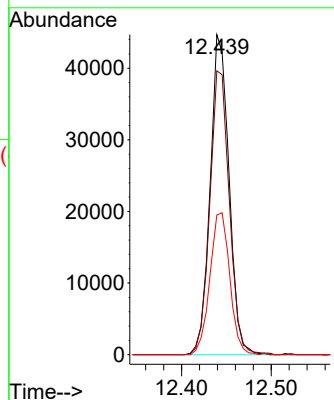
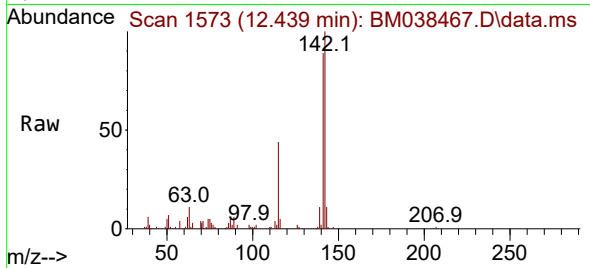




#37
2-Methylnaphthalene
Concen: 7.271 ng
RT: 12.439 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

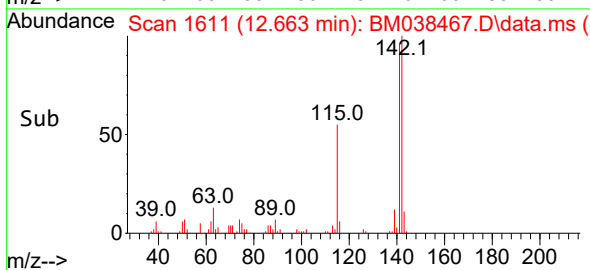
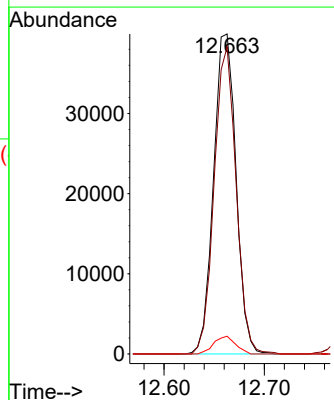
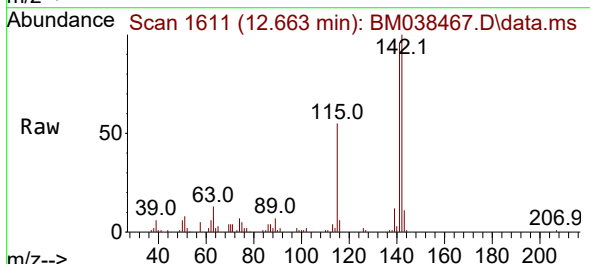
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

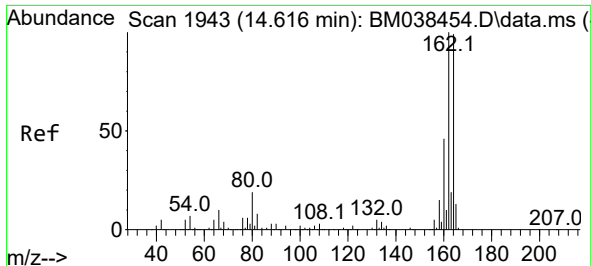
Tgt Ion:142 Resp: 65264
Ion Ratio Lower Upper
142 100
141 88.7 72.0 108.0
115 43.6 35.9 53.9



#38
1-Methylnaphthalene
Concen: 7.366 ng
RT: 12.663 min Scan# 1611
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:142 Resp: 62071
Ion Ratio Lower Upper
142 100
141 95.9 74.4 111.6
116 5.6 3.8 5.8

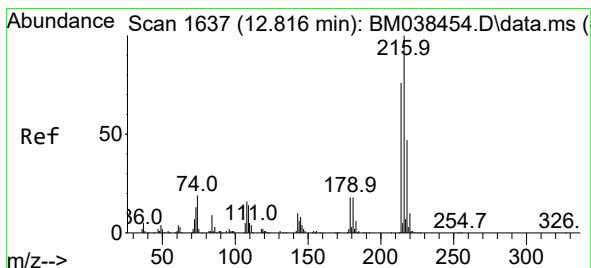
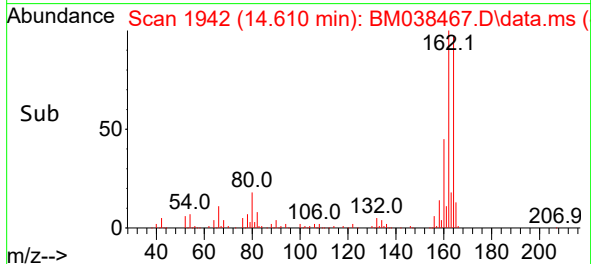
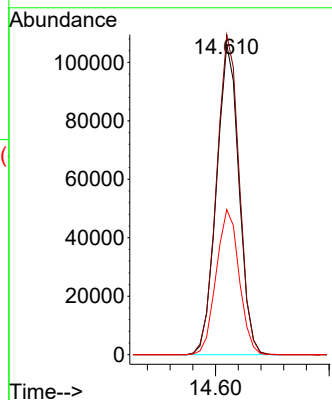
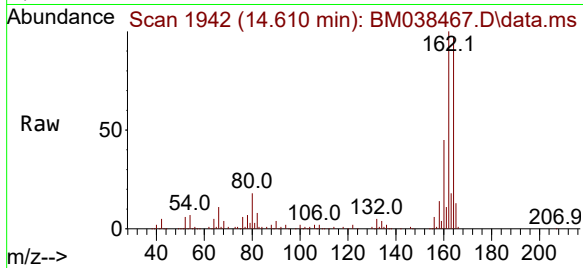




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

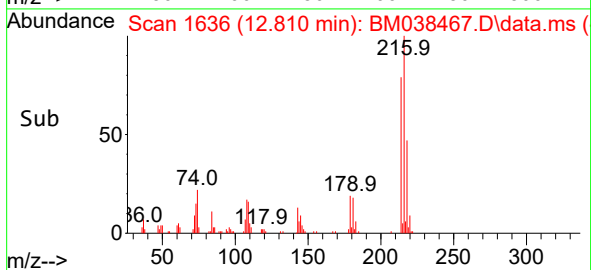
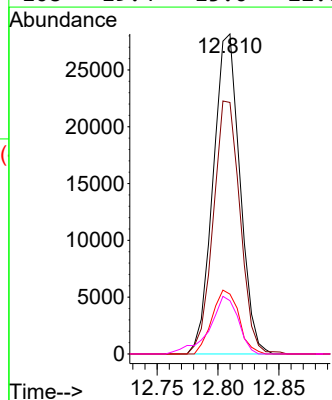
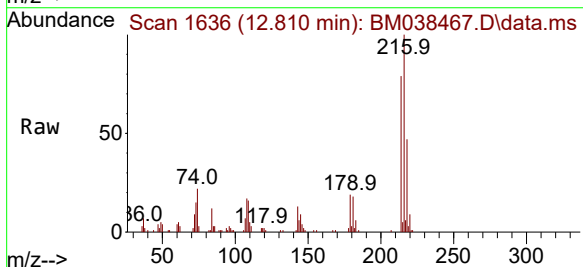
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

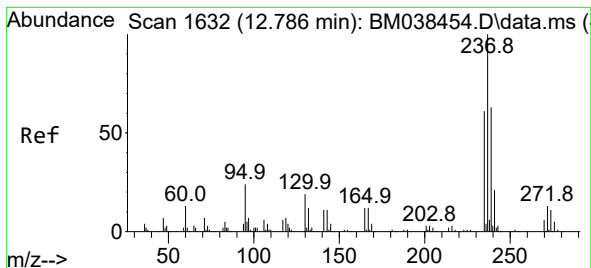
Tgt Ion:164 Resp: 145787
Ion Ratio Lower Upper
164 100
162 103.1 80.9 121.3
160 46.8 37.4 56.0



#40
1,2,4,5-Tetrachlorobenzene
Concen: 7.891 ng
RT: 12.810 min Scan# 1636
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:216 Resp: 43054
Ion Ratio Lower Upper
216 100
214 78.9 61.4 92.0
179 20.0 15.3 22.9
108 19.4 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 7.447 ng

RT: 12.780 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

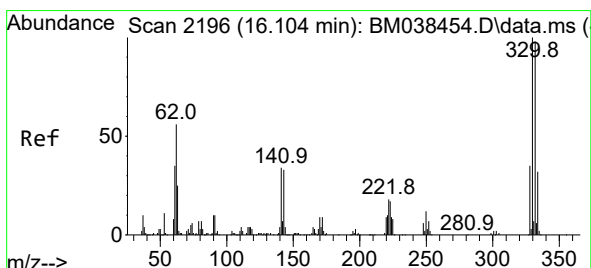
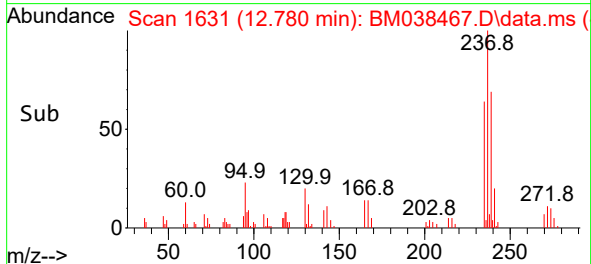
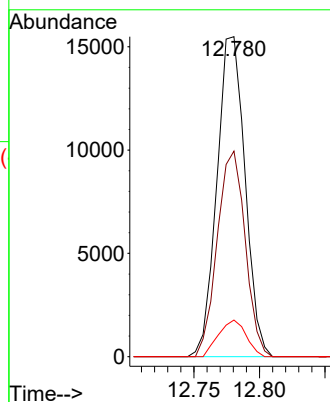
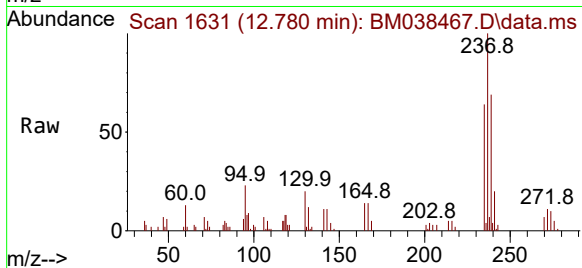
Tgt Ion:237 Resp: 23104

Ion Ratio Lower Upper

237 100

235 64.3 40.9 80.9

272 11.4 0.0 32.6



#42

2,4,6-Tribromophenol

Concen: 102.416 ng

RT: 16.098 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

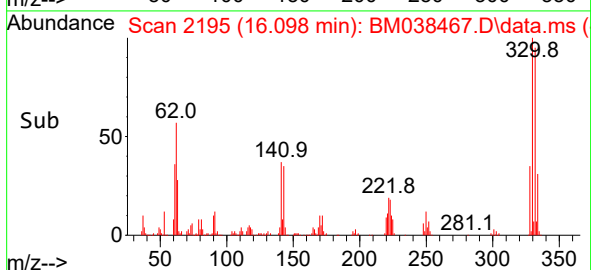
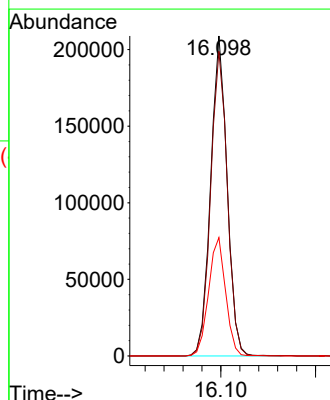
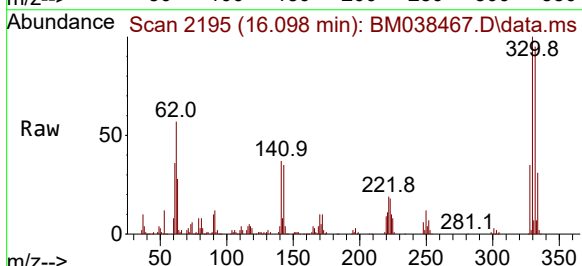
Tgt Ion:330 Resp: 252408

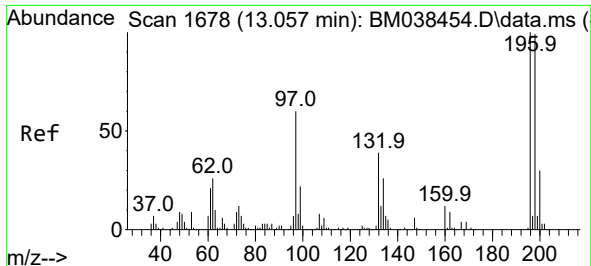
Ion Ratio Lower Upper

330 100

332 96.6 77.0 115.4

141 38.1 28.1 42.1

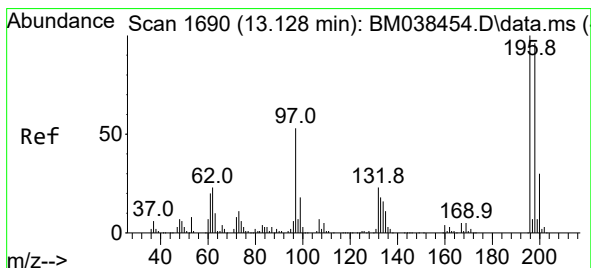
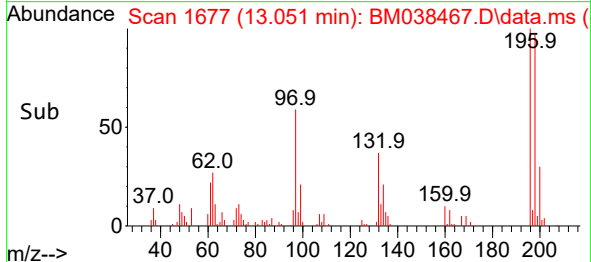
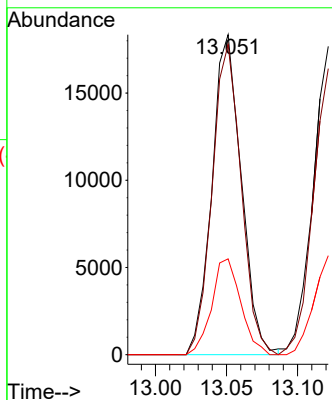
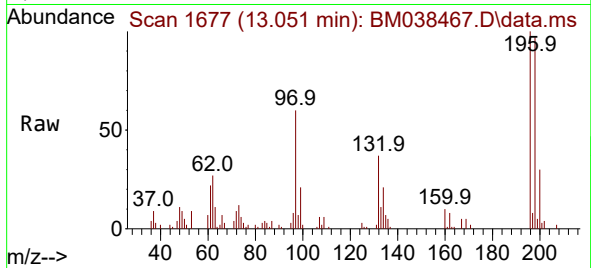




#43
2,4,6-Trichlorophenol
Concen: 7.641 ng
RT: 13.051 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

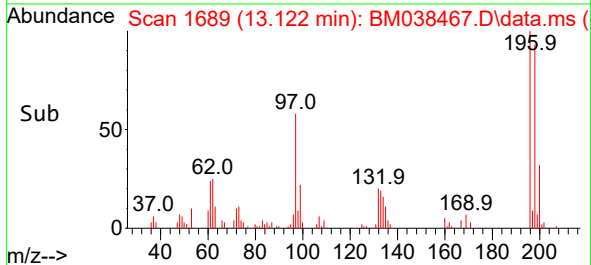
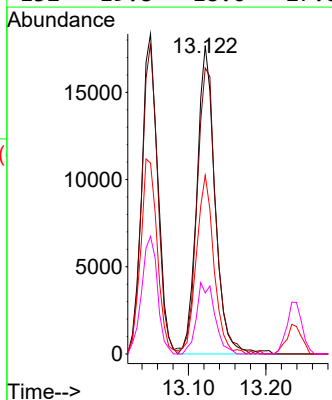
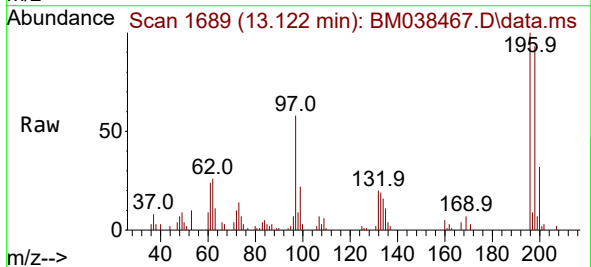
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

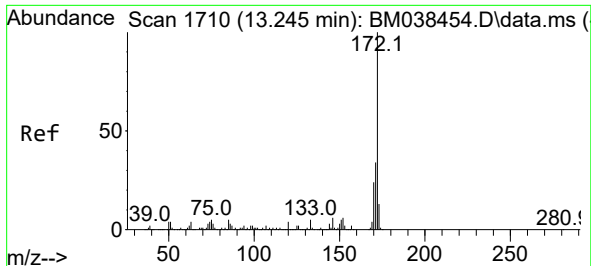
Tgt Ion:196 Resp: 26357
Ion Ratio Lower Upper
196 100
198 96.9 78.8 118.2
200 29.9 24.4 36.6



#44
2,4,5-Trichlorophenol
Concen: 7.076 ng
RT: 13.122 min Scan# 1689
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:196 Resp: 28777
Ion Ratio Lower Upper
196 100
198 92.8 77.4 116.2
97 57.9 42.4 63.6
132 19.8 18.6 27.8

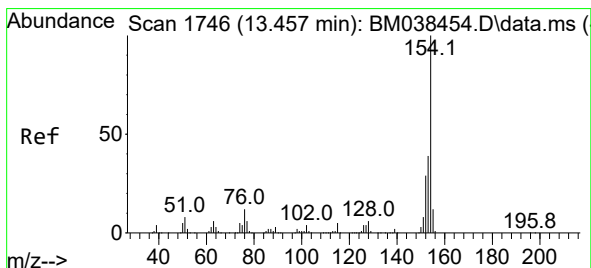
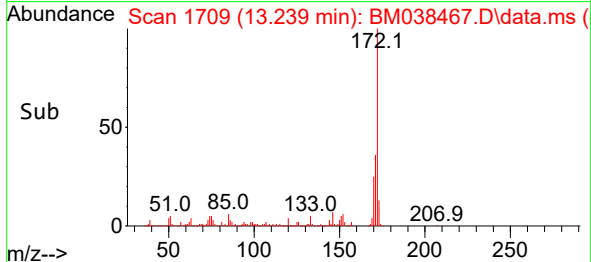
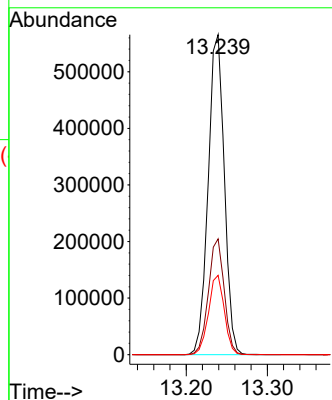
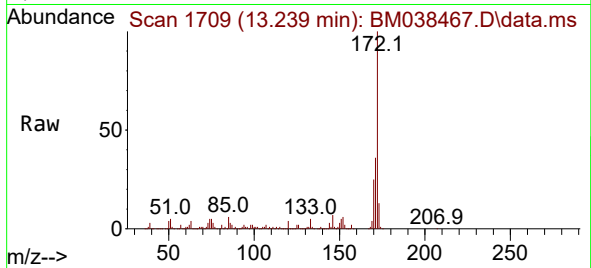




#45
2-Fluorobiphenyl
Concen: 66.843 ng
RT: 13.239 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

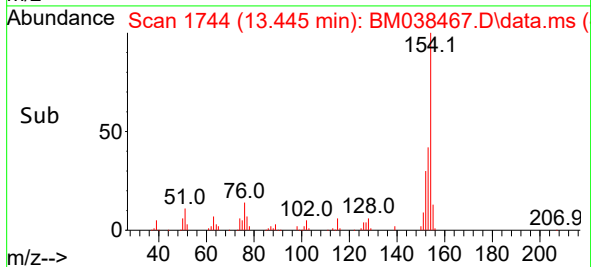
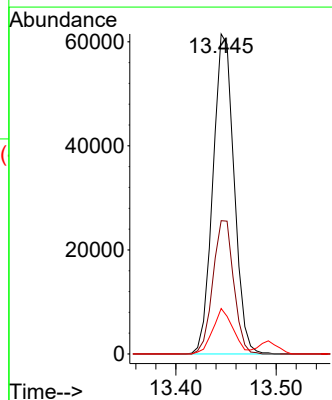
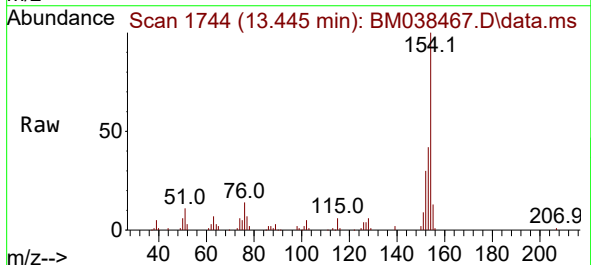
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

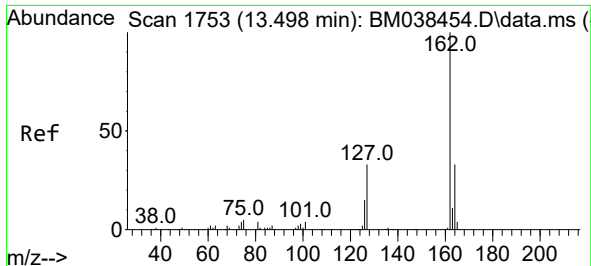
Tgt Ion:172 Resp: 781402
Ion Ratio Lower Upper
172 100
171 36.2 27.5 41.3
170 24.8 19.0 28.6



#46
1,1'-Biphenyl
Concen: 7.938 ng
RT: 13.445 min Scan# 1744
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:154 Resp: 89779
Ion Ratio Lower Upper
154 100
153 41.7 19.3 59.3
76 14.2 0.0 32.2

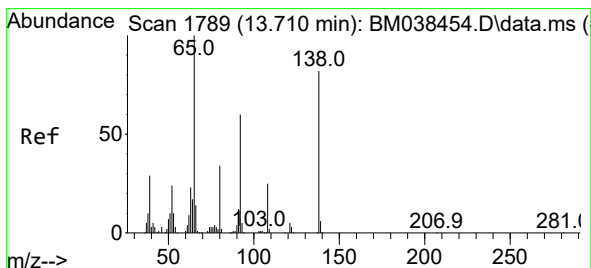
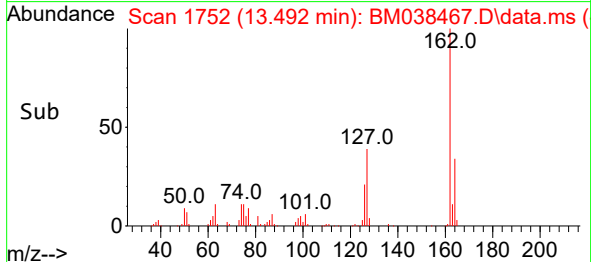
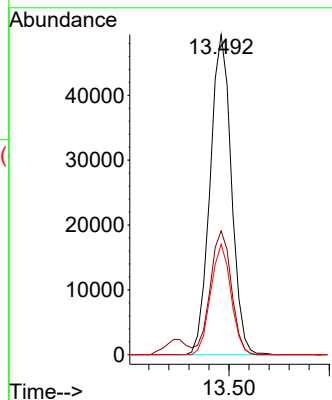
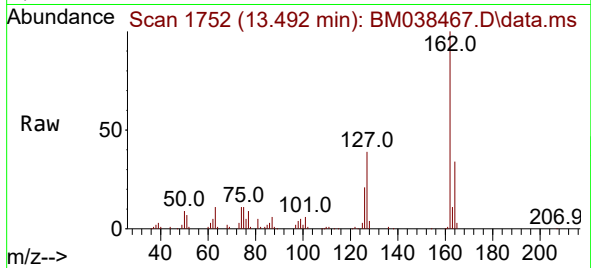




#47
2-Chloronaphthalene
Concen: 8.179 ng
RT: 13.492 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

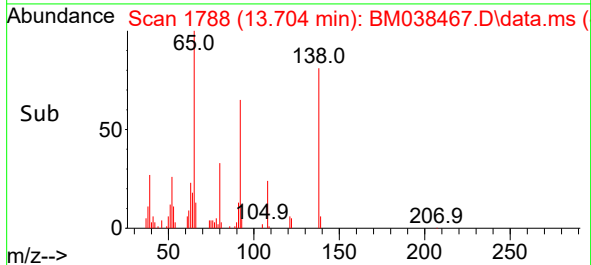
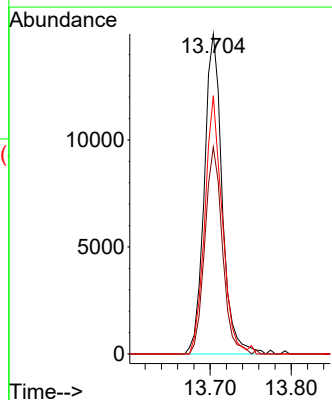
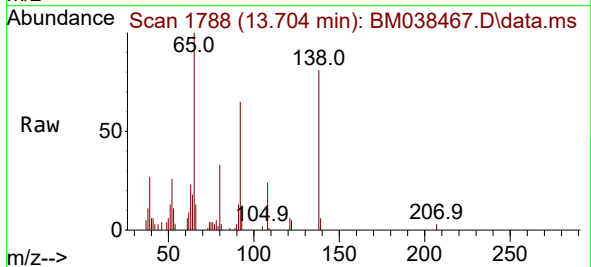
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

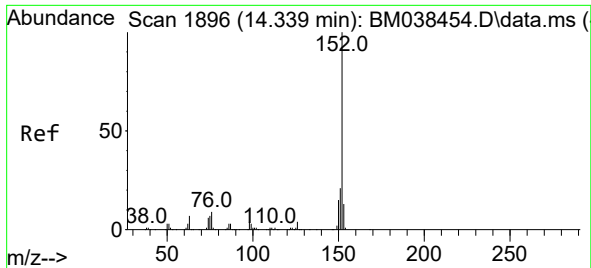
Tgt Ion:162 Resp: 72813
Ion Ratio Lower Upper
162 100
127 38.7 29.5 44.3
164 34.5 26.2 39.4



#48
2-Nitroaniline
Concen: 8.475 ng
RT: 13.704 min Scan# 1788
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion: 65 Resp: 22876
Ion Ratio Lower Upper
65 100
92 64.6 47.6 71.4
138 80.7 65.8 98.8

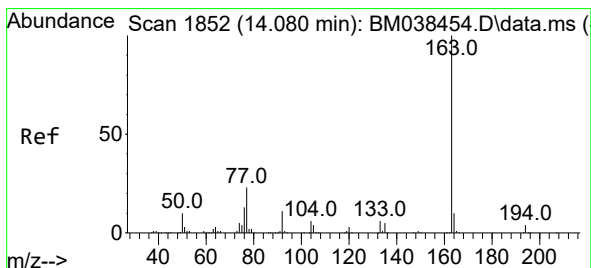
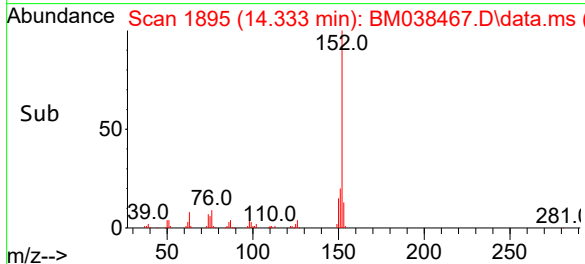
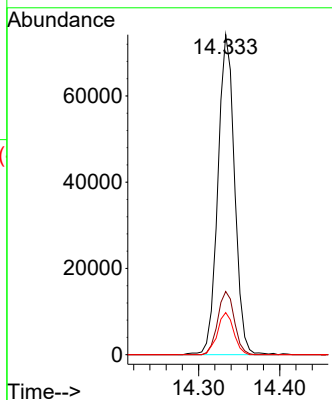
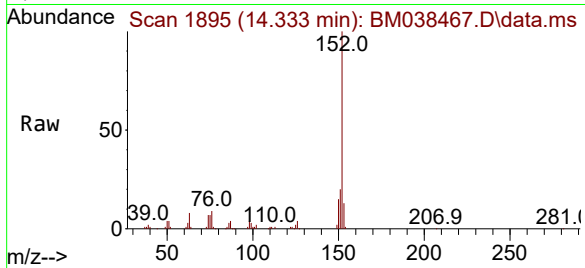




#49
Acenaphthylene
Concen: 7.572 ng
RT: 14.333 min Scan# 1895
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

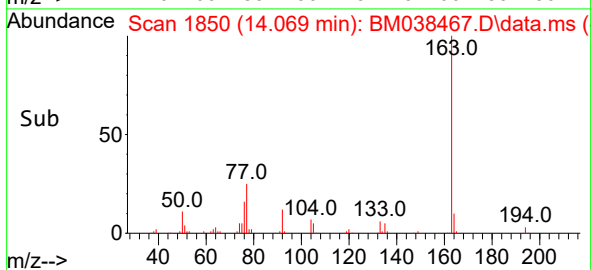
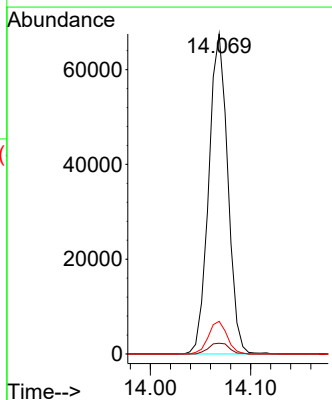
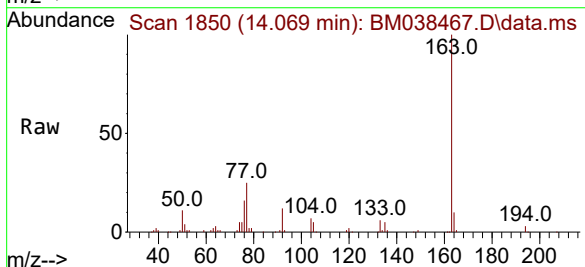
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

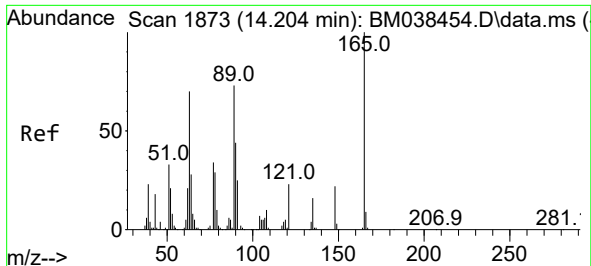
Tgt Ion:152 Resp: 106275
Ion Ratio Lower Upper
152 100
151 19.7 16.4 24.6
153 13.1 10.6 15.8



#50
Dimethylphthalate
Concen: 7.546 ng
RT: 14.069 min Scan# 1850
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:163 Resp: 89152
Ion Ratio Lower Upper
163 100
194 3.3 3.6 5.4#
164 10.2 7.8 11.8





#51

2,6-Dinitrotoluene

Concen: 7.118 ng

RT: 14.198 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

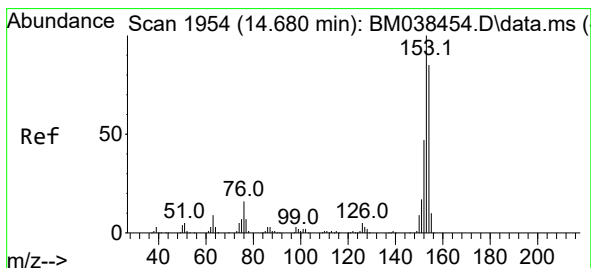
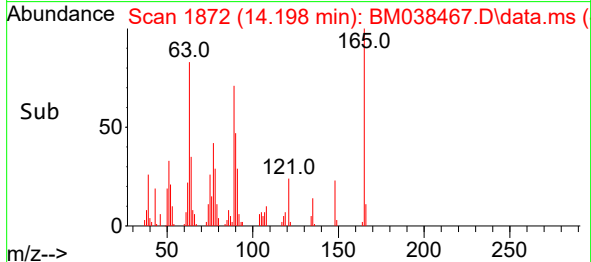
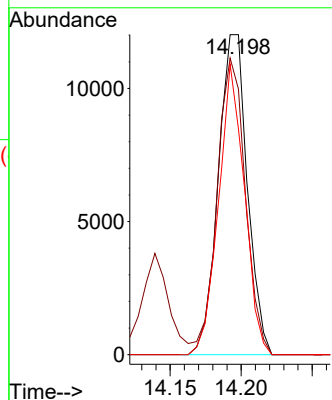
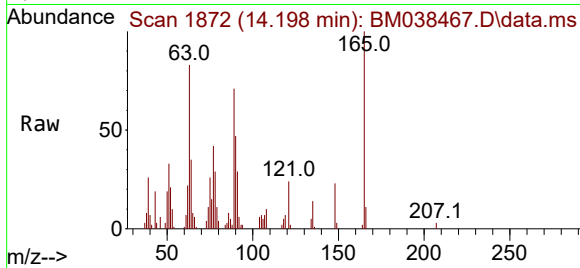
Tgt Ion:165 Resp: 17109

Ion Ratio Lower Upper

165 100

63 83.0 60.9 91.3

89 70.6 58.6 87.8



#52

Acenaphthene

Concen: 7.554 ng

RT: 14.674 min Scan# 1953

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

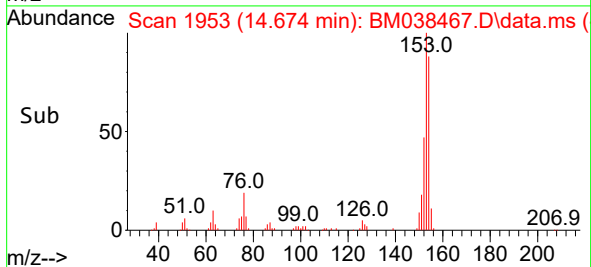
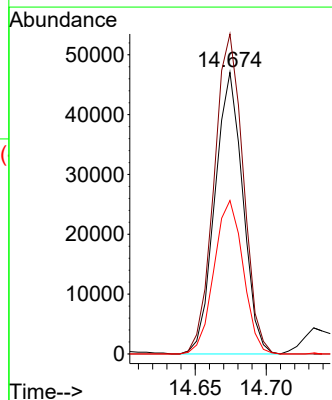
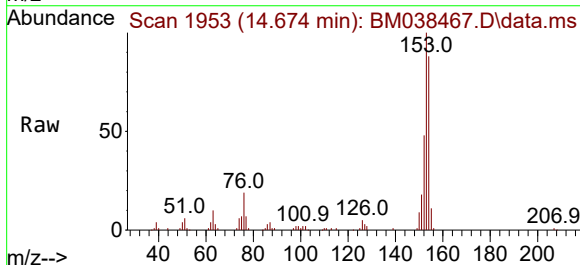
Tgt Ion:154 Resp: 64429

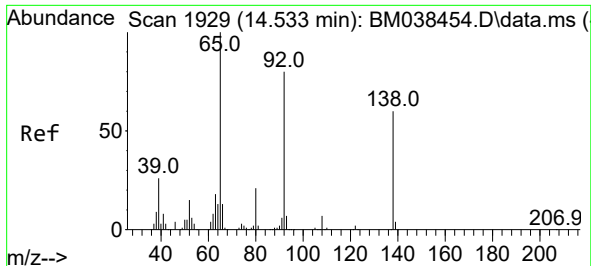
Ion Ratio Lower Upper

154 100

153 113.6 93.8 140.6

152 54.5 44.2 66.4

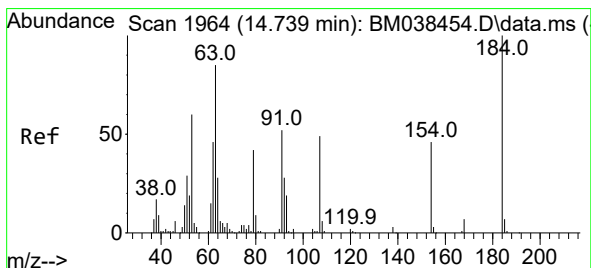
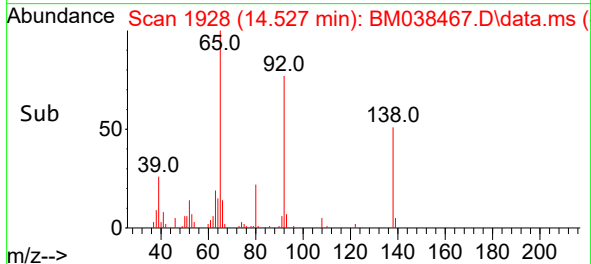
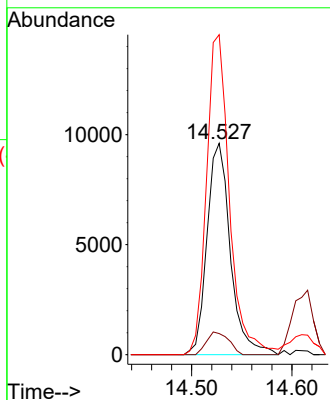
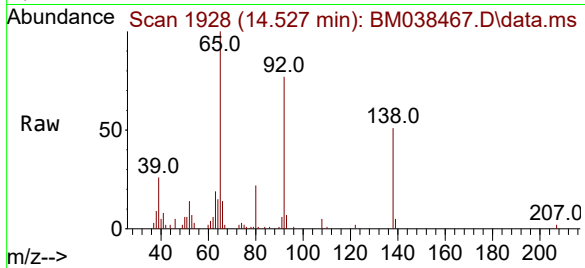




#53
3-Nitroaniline
Concen: 8.207 ng
RT: 14.527 min Scan# 1928
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

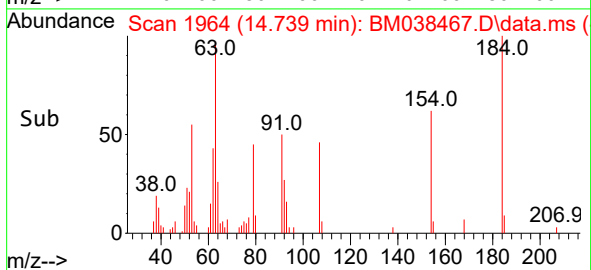
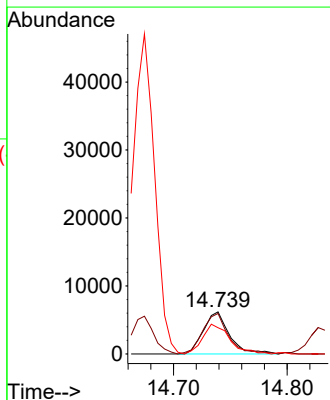
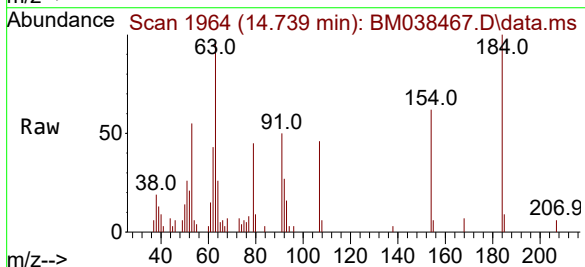
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

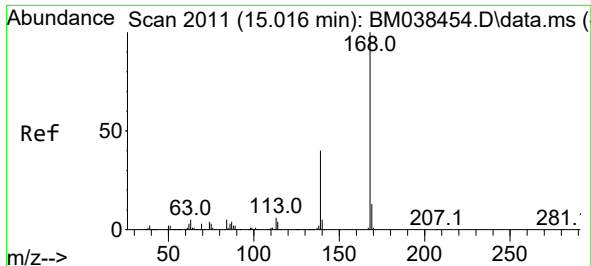
Tgt Ion:138 Resp: 15564
Ion Ratio Lower Upper
138 100
108 10.0 8.9 13.3
92 151.4 106.4 159.6



#54
2,4-Dinitrophenol
Concen: 10.159 ng
RT: 14.739 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:184 Resp: 9803
Ion Ratio Lower Upper
184 100
63 96.5 70.0 105.0
154 62.5 55.6 83.4

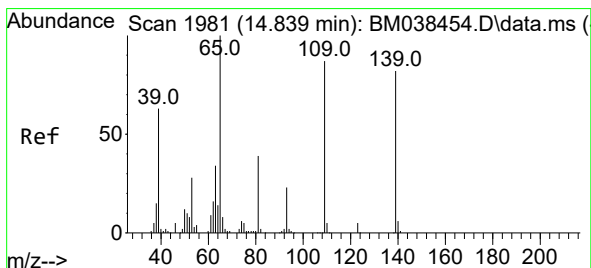
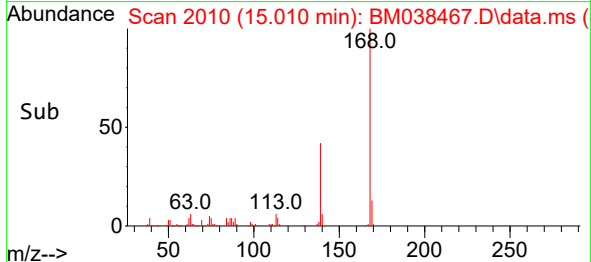
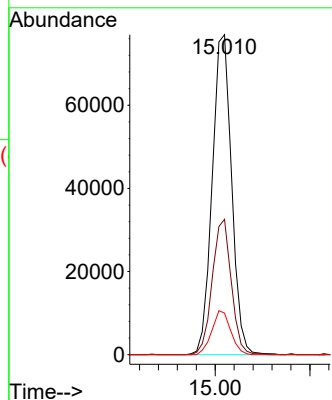
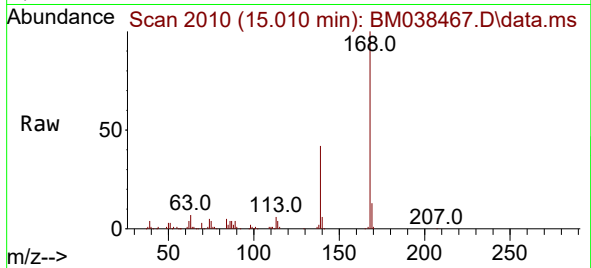




#55
Dibenzenofuran
Concen: 7.551 ng
RT: 15.010 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

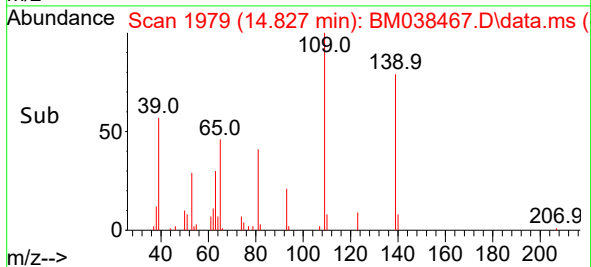
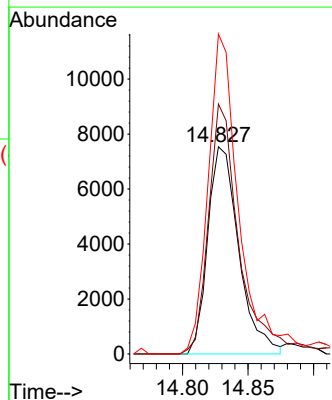
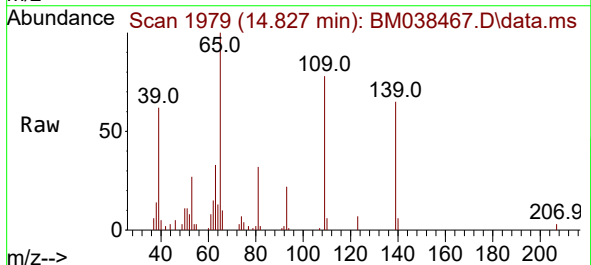
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

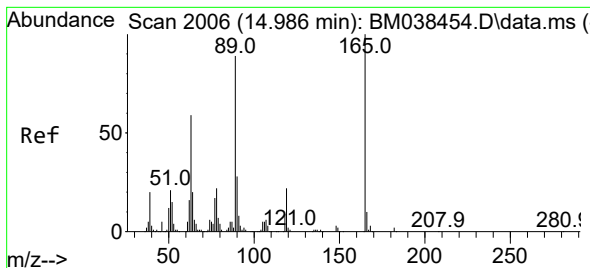
Tgt Ion:168 Resp: 109662
Ion Ratio Lower Upper
168 100
139 42.3 31.9 47.9
169 13.0 10.5 15.7



#56
4-Nitrophenol
Concen: 9.306 ng
RT: 14.827 min Scan# 1979
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:139 Resp: 12432
Ion Ratio Lower Upper
139 100
109 120.6 86.0 126.0
65 154.4 102.7 142.7#





#57

2,4-Dinitrotoluene

Concen: 7.110 ng

RT: 14.980 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM038467.D

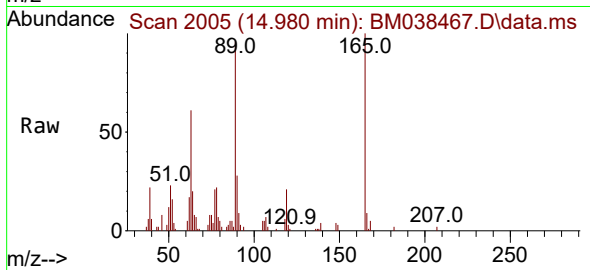
Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022



Tgt Ion:165 Resp: 23757

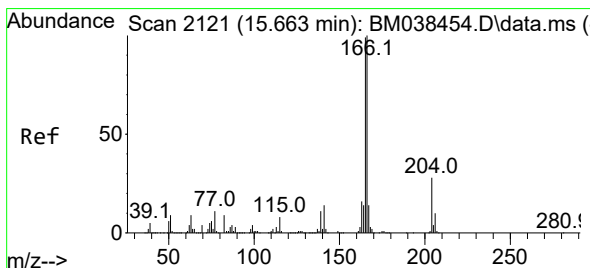
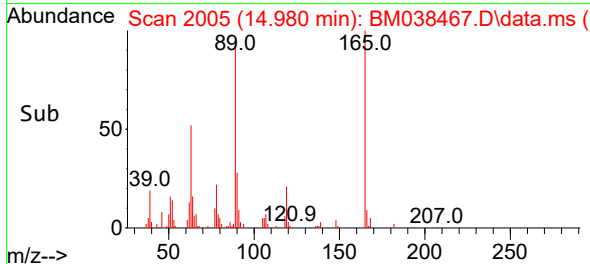
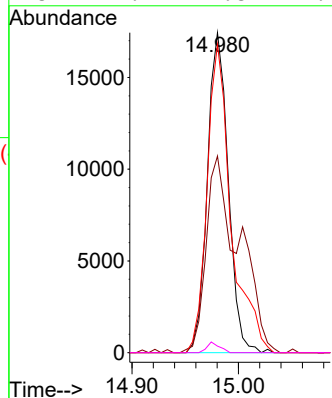
Ion Ratio Lower Upper

165 100

63 61.5 47.7 71.5

89 96.4 71.5 107.3

182 2.1 1.8 2.6



#58

Fluorene

Concen: 7.209 ng

RT: 15.657 min Scan# 2120

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

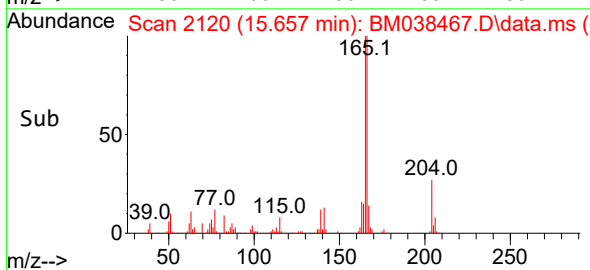
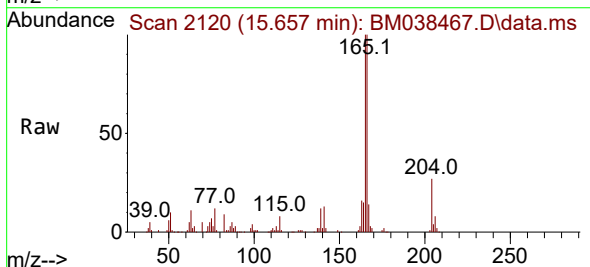
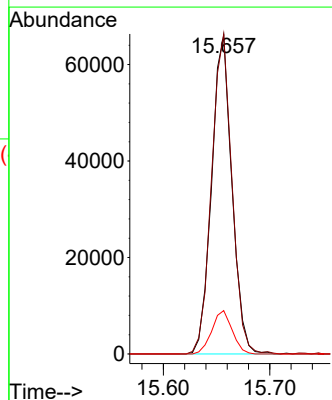
Tgt Ion:166 Resp: 87469

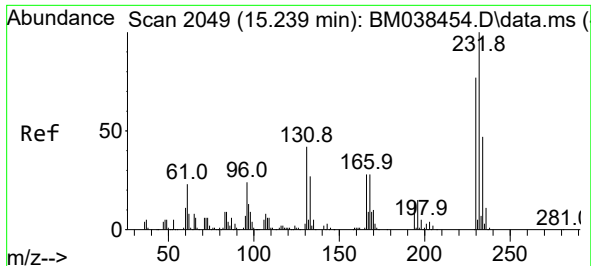
Ion Ratio Lower Upper

166 100

165 100.3 79.2 118.8

167 13.6 11.0 16.4





#59

2,3,4,6-Tetrachlorophenol

Concen: 7.213 ng

RT: 15.151 min Scan# 20

Delta R.T. -0.088 min

Lab File: BM038467.D

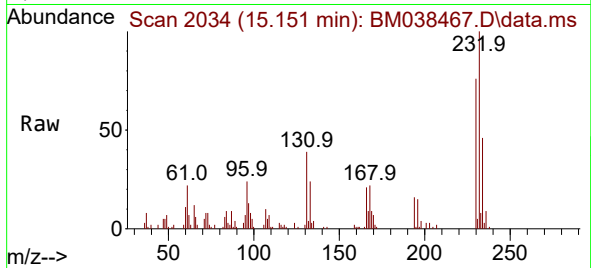
Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

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Tgt Ion:232 Resp: 26008

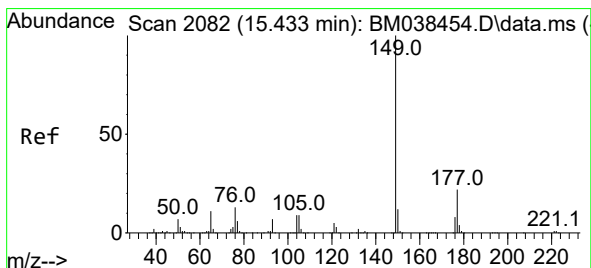
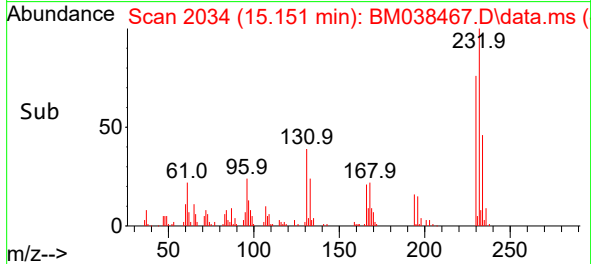
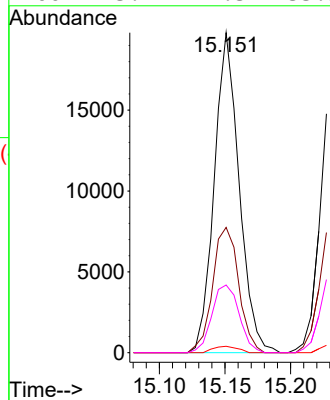
Ion Ratio Lower Upper

232 100

131 41.2 33.8 50.6

130 2.0 1.9 2.9

166 23.2 22.3 33.5



#60

Diethylphthalate

Concen: 7.488 ng

RT: 15.421 min Scan# 2080

Delta R.T. -0.012 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

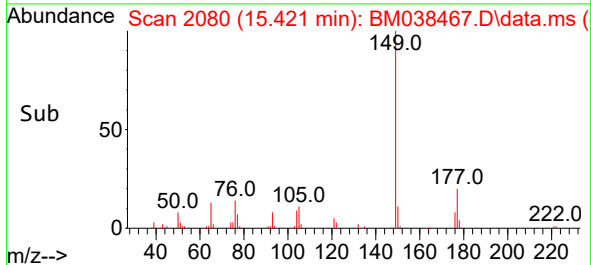
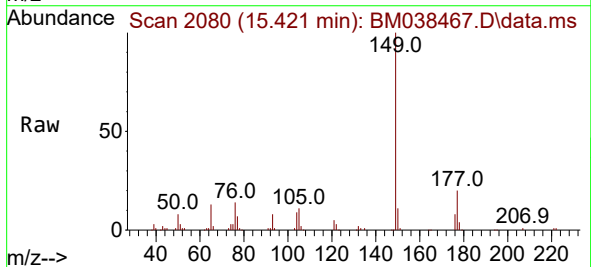
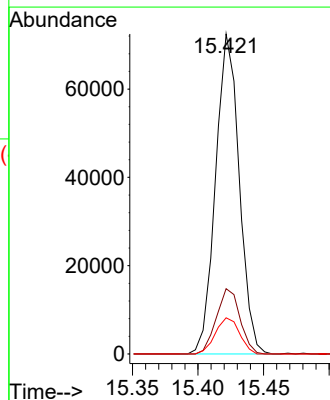
Tgt Ion:149 Resp: 90762

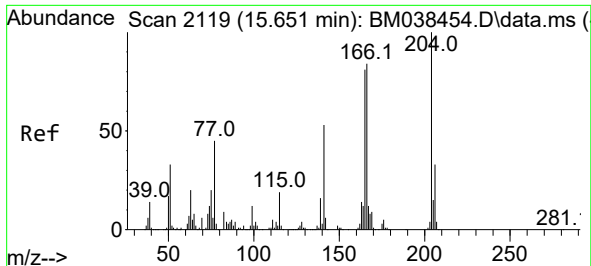
Ion Ratio Lower Upper

149 100

177 20.4 17.8 26.6

150 11.3 9.5 14.3

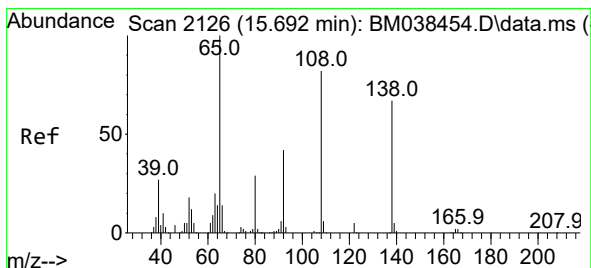
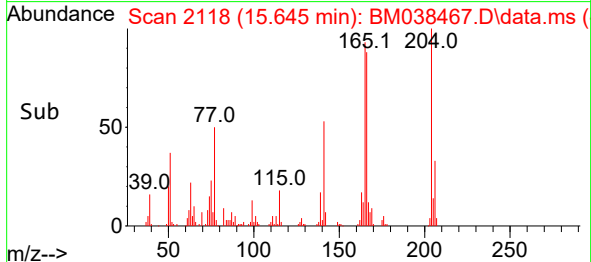
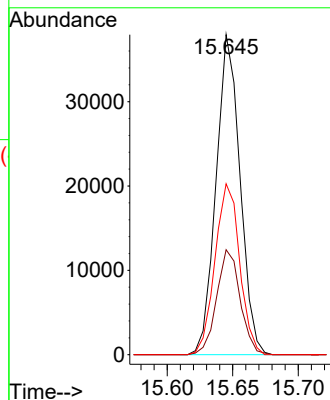
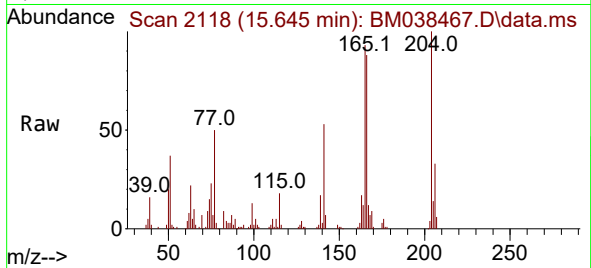




#61
4-Chlorophenyl-phenylether
Concen: 7.227 ng
RT: 15.645 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

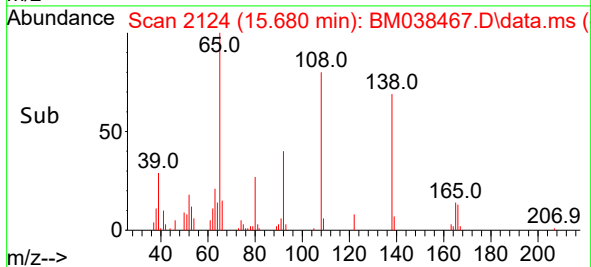
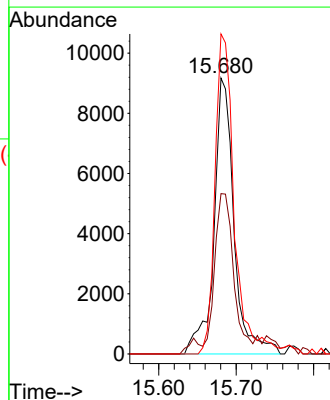
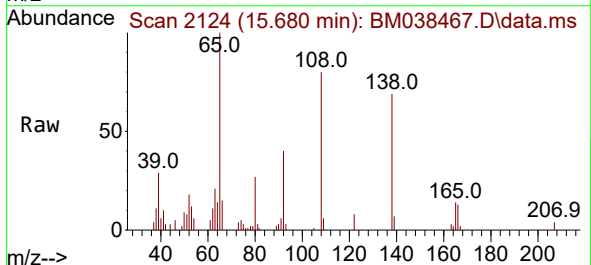
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

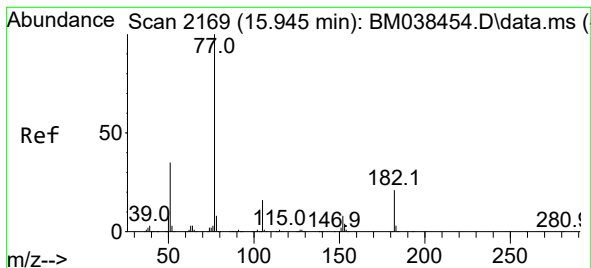
Tgt Ion:204 Resp: 48136
Ion Ratio Lower Upper
204 100
206 32.8 26.2 39.4
141 53.4 42.5 63.7



#62
4-Nitroaniline
Concen: 8.431 ng
RT: 15.680 min Scan# 2124
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:138 Resp: 16459
Ion Ratio Lower Upper
138 100
92 58.1 42.1 82.1
108 116.0 102.5 142.5





#63

Azobenzene

Concen: 7.885 ng

RT: 15.939 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

Tgt Ion: 77 Resp: 105153

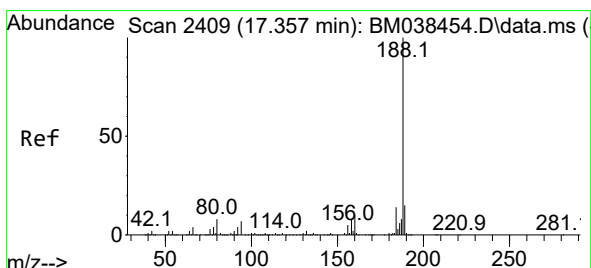
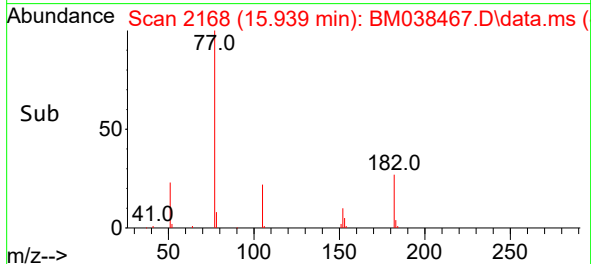
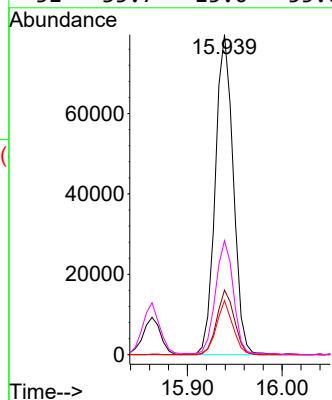
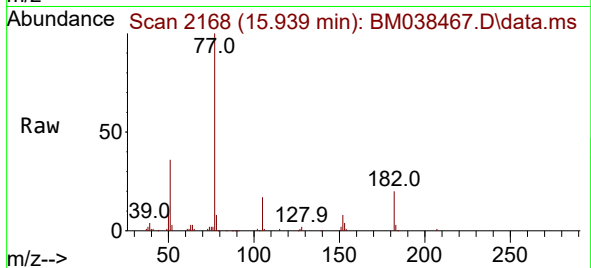
Ion Ratio Lower Upper

77 100

182 20.2 1.1 41.1

105 16.9 0.0 36.4

51 35.7 15.0 55.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.351 min Scan# 2408

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

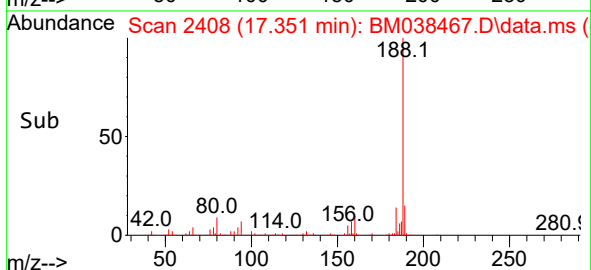
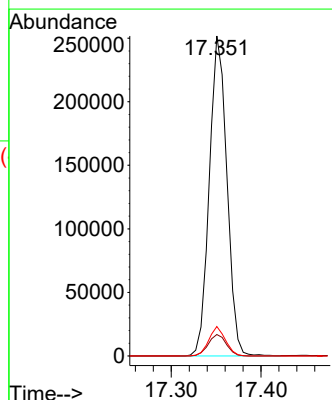
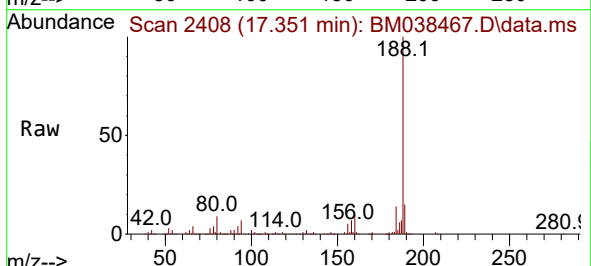
Tgt Ion: 188 Resp: 343021

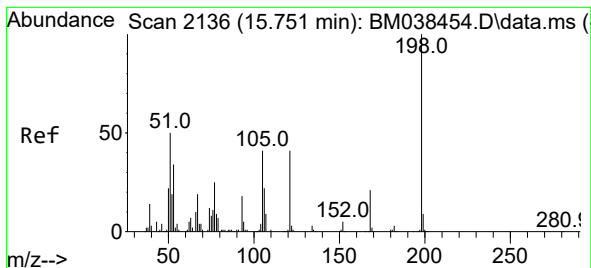
Ion Ratio Lower Upper

188 100

94 6.7 5.4 8.0

80 9.2 6.5 9.7

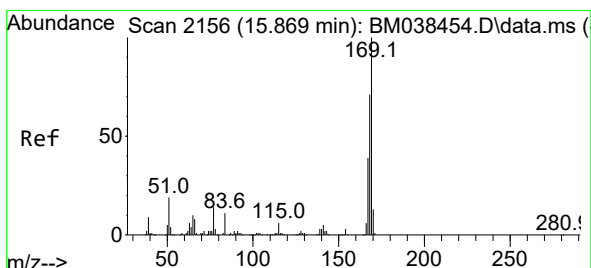
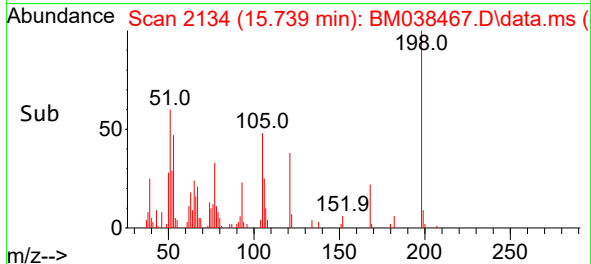
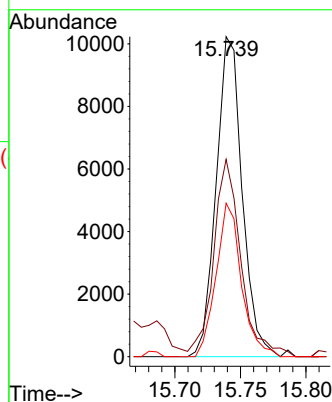
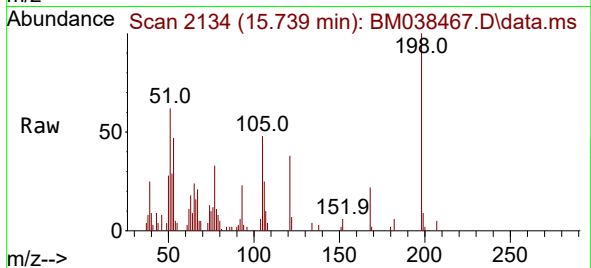




#65
4,6-Dinitro-2-methylphenol
Concen: 6.064 ng
RT: 15.739 min Scan# 2134
Delta R.T. -0.012 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

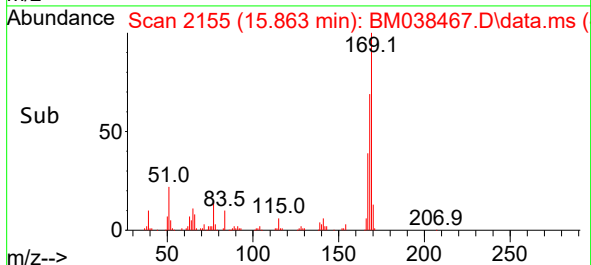
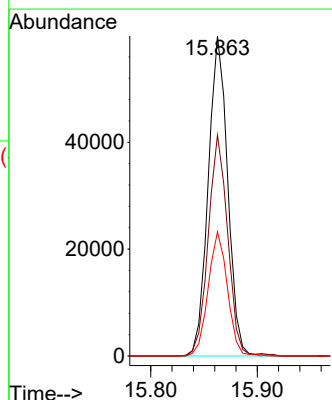
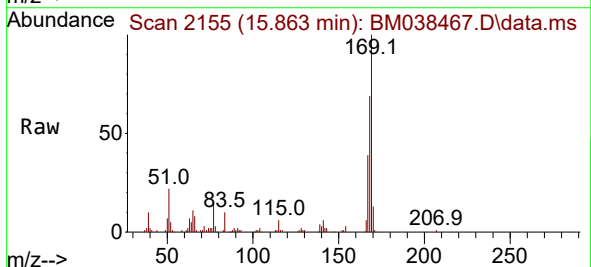
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

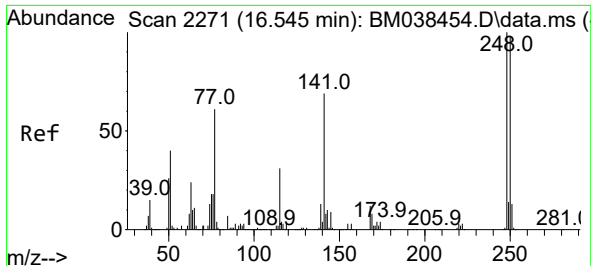
Tgt Ion	Ratio	Lower	Upper
198	100		
51	61.7	31.6	71.6
105	47.9	21.5	61.5



#66
n-Nitrosodiphenylamine
Concen: 7.530 ng
RT: 15.863 min Scan# 2155
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion	Ratio	Lower	Upper
169	100		
168	69.1	56.6	85.0
167	38.8	31.1	46.7

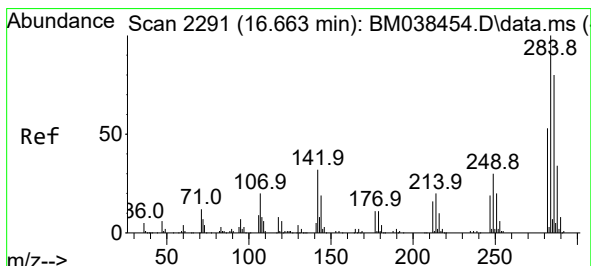
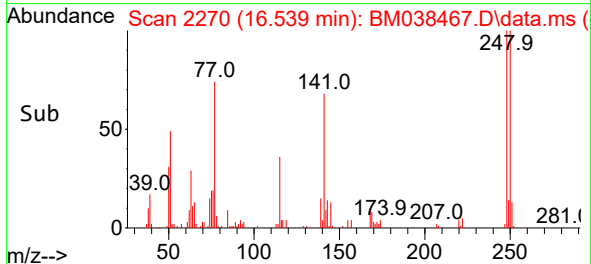
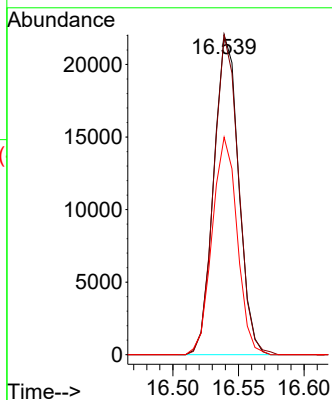
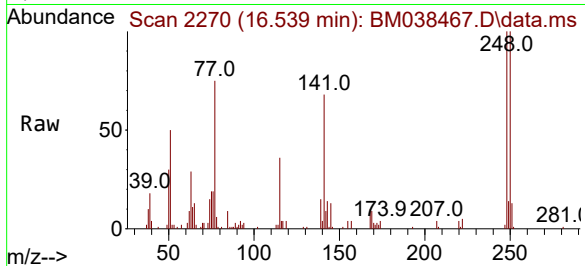




#67
4-Bromophenyl-phenylether
Concen: 7.303 ng
RT: 16.539 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

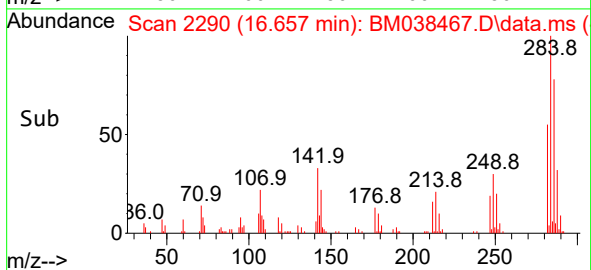
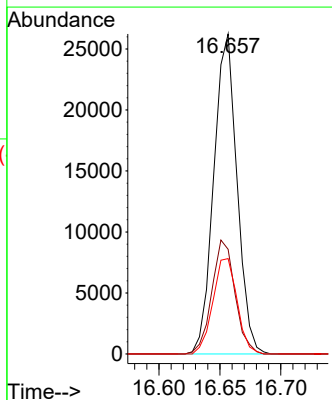
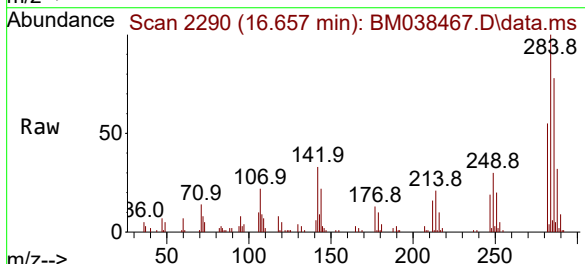
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

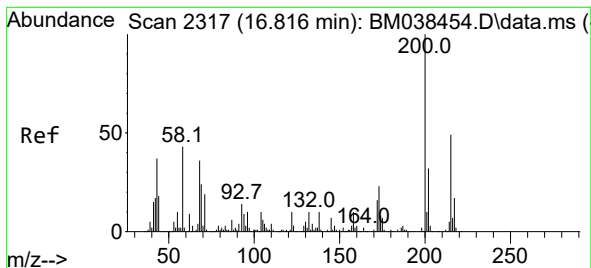
Tgt Ion:248 Resp: 28976
Ion Ratio Lower Upper
248 100
250 99.9 78.3 117.5
141 67.9 55.1 82.7



#68
Hexachlorobenzene
Concen: 7.847 ng
RT: 16.657 min Scan# 2290
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:284 Resp: 34864
Ion Ratio Lower Upper
284 100
142 32.7 26.0 39.0
249 29.8 23.8 35.8





#69

Atrazine

Concen: 8.252 ng

RT: 16.810 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

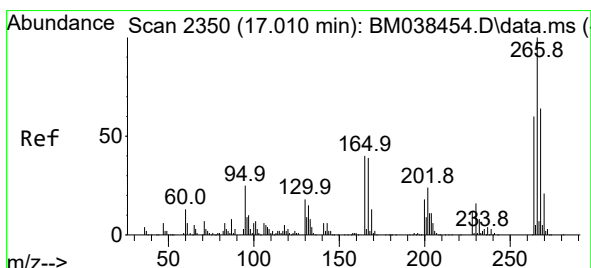
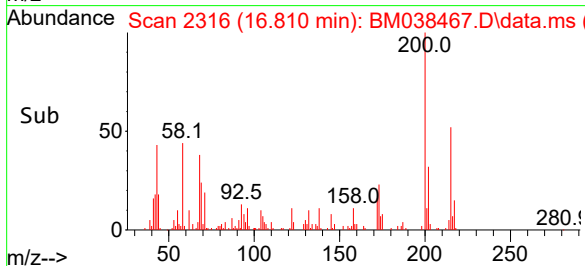
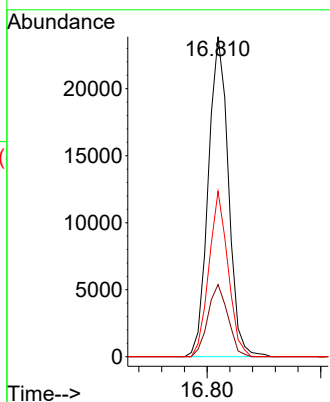
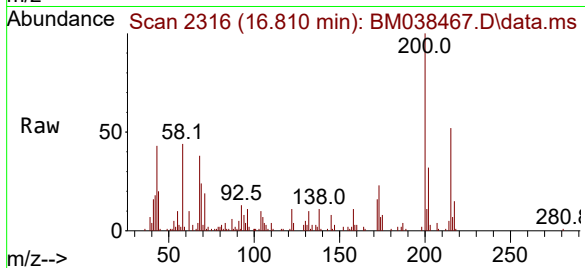
Tgt Ion:200 Resp: 29372

Ion Ratio Lower Upper

200 100

173 22.6 3.4 43.4

215 51.7 29.3 69.3



#70

Pentachlorophenol

Concen: 6.264 ng

RT: 17.004 min Scan# 2349

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

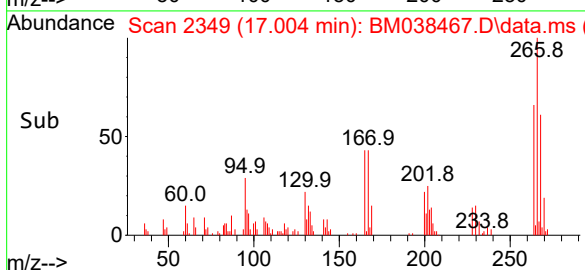
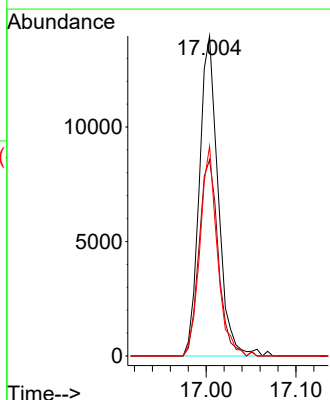
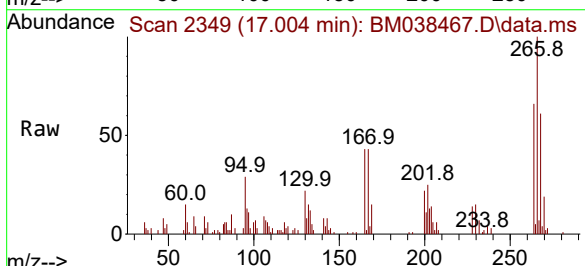
Tgt Ion:266 Resp: 20319

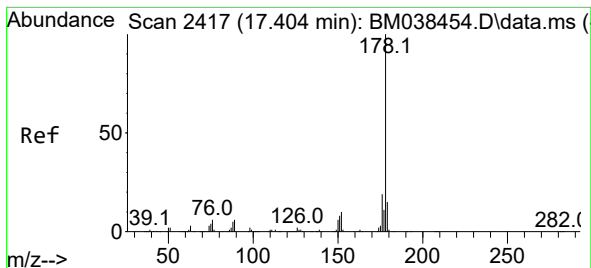
Ion Ratio Lower Upper

266 100

268 65.5 51.4 77.0

264 65.5 48.2 72.2





#71

Phenanthrene

Concen: 7.595 ng

RT: 17.392 min Scan# 2415

Delta R.T. -0.012 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

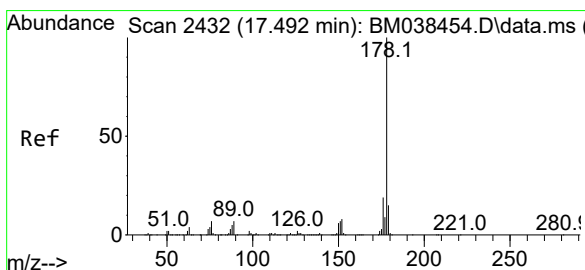
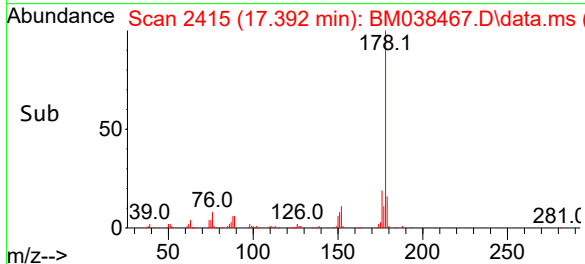
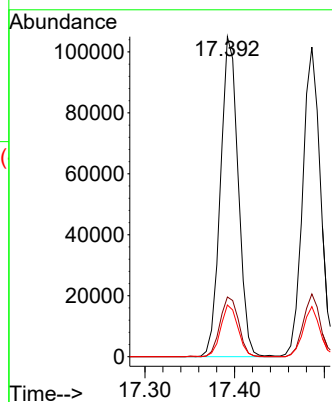
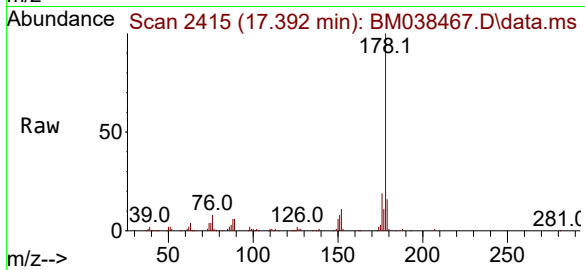
Tgt Ion:178 Resp: 144141

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.0

179 16.2 12.1 18.1



#72

Anthracene

Concen: 7.277 ng

RT: 17.486 min Scan# 2431

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

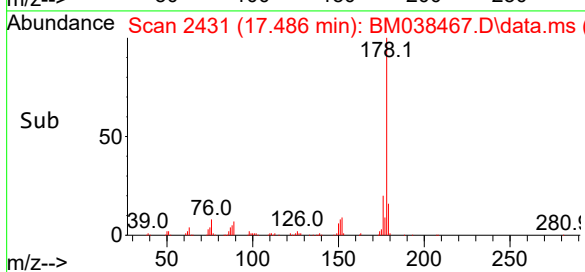
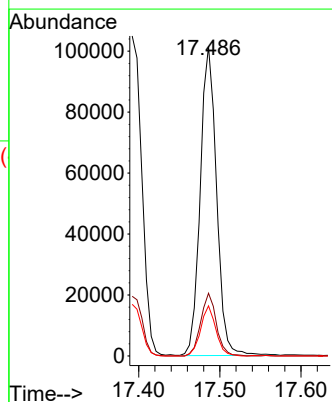
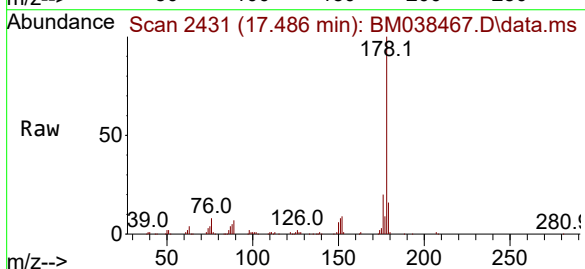
Tgt Ion:178 Resp: 141925

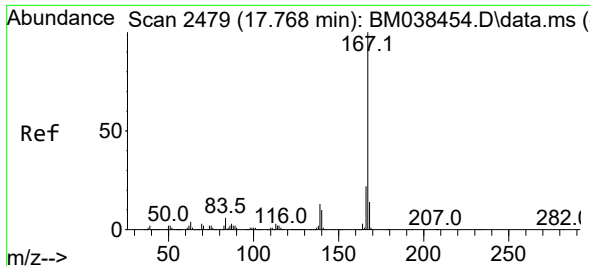
Ion Ratio Lower Upper

178 100

176 20.2 15.0 22.6

179 16.2 12.2 18.2

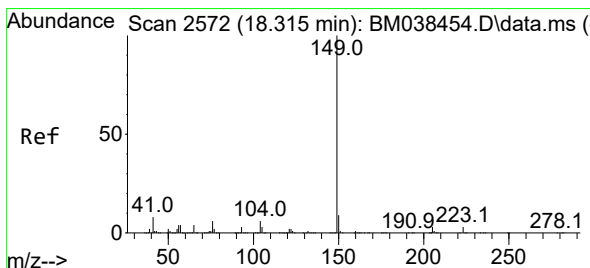
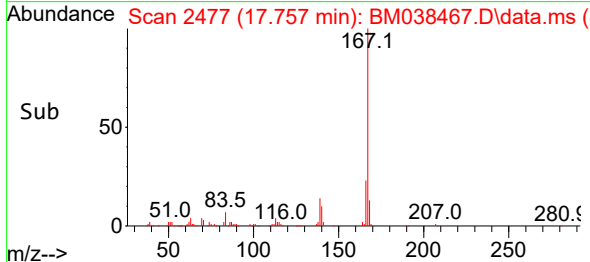
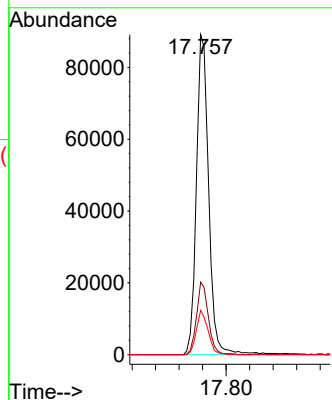
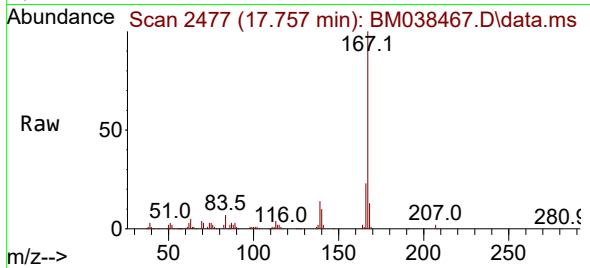




#73
 Carbazole
 Concen: 7.589 ng
 RT: 17.757 min Scan# 2477
 Delta R.T. -0.012 min
 Lab File: BM038467.D
 Acq: 17 Jan 2023 16:53

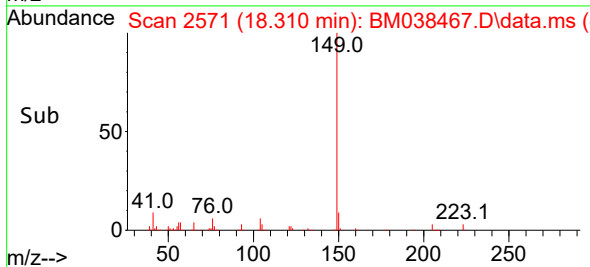
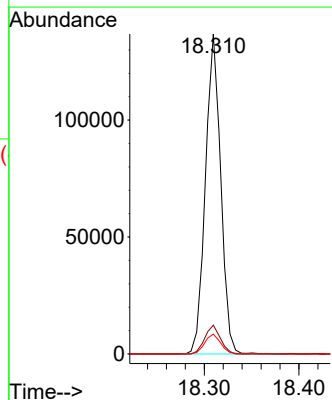
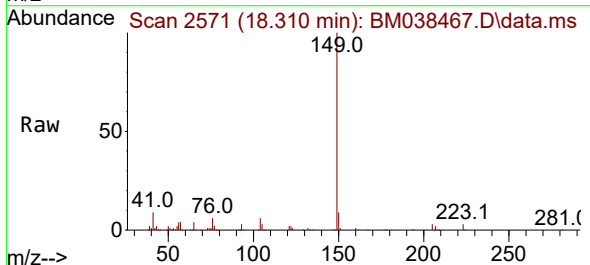
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT3-2022

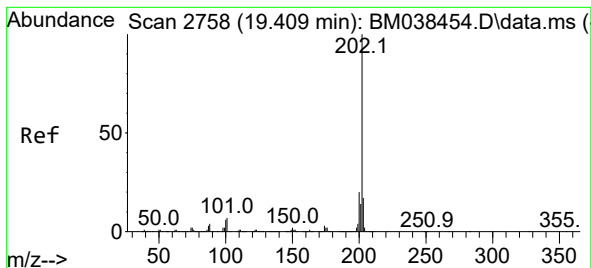
Tgt Ion:167 Resp: 129428
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.4 26.0
 139 13.8 10.1 15.1



#74
 Di-n-butylphthalate
 Concen: 7.579 ng
 RT: 18.310 min Scan# 2571
 Delta R.T. -0.006 min
 Lab File: BM038467.D
 Acq: 17 Jan 2023 16:53

Tgt Ion:149 Resp: 153530
 Ion Ratio Lower Upper
 149 100
 150 9.0 7.4 11.2
 104 6.2 4.7 7.1





#75

Fluoranthene

Concen: 7.288 ng

RT: 19.404 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

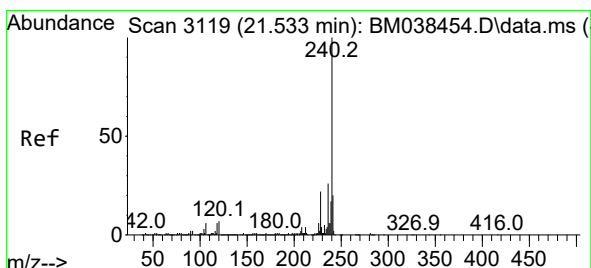
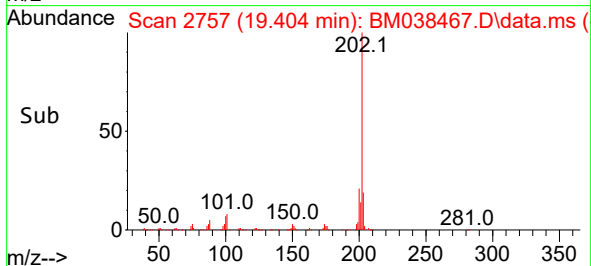
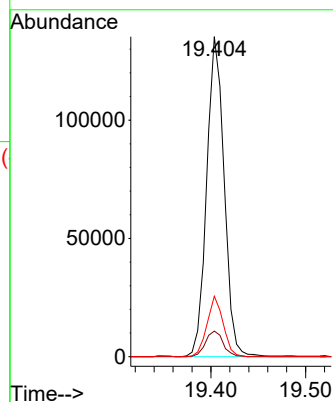
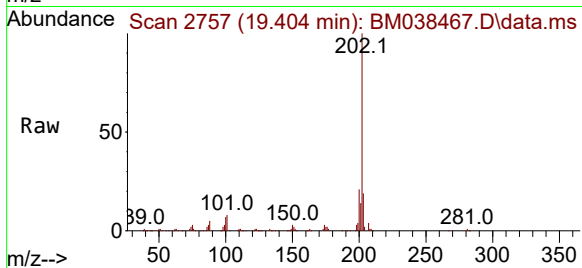
Tgt Ion:202 Resp: 173870

Ion Ratio Lower Upper

202 100

101 8.0 0.0 27.4

203 18.9 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.527 min Scan# 3118

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

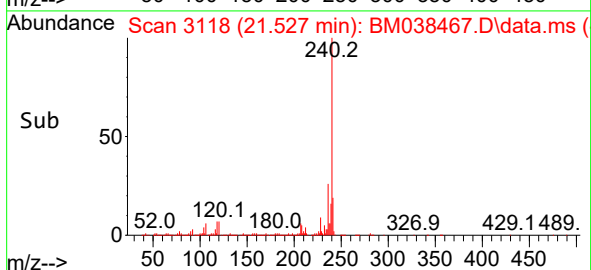
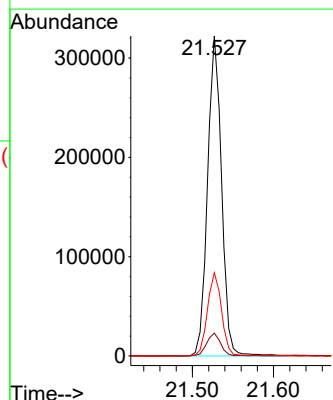
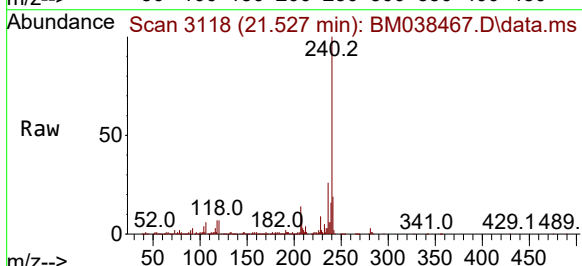
Tgt Ion:240 Resp: 384731

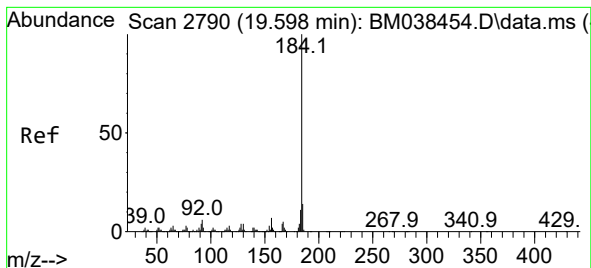
Ion Ratio Lower Upper

240 100

120 7.2 5.6 8.4

236 26.0 21.0 31.4





#77

Benzidine

Concen: 8.068 ng

RT: 19.592 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

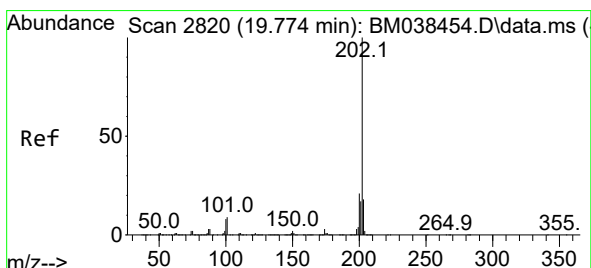
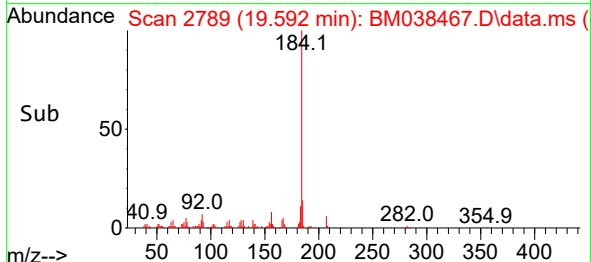
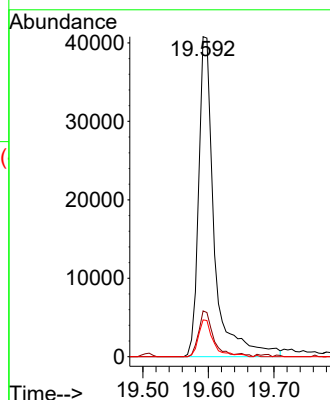
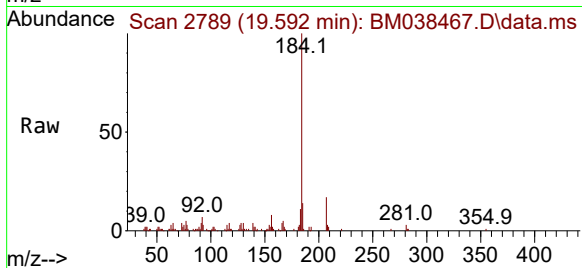
Tgt Ion:184 Resp: 68009

Ion Ratio Lower Upper

184 100

185 14.3 11.1 16.7

183 11.5 8.6 13.0



#78

Pyrene

Concen: 7.472 ng

RT: 19.768 min Scan# 2819

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

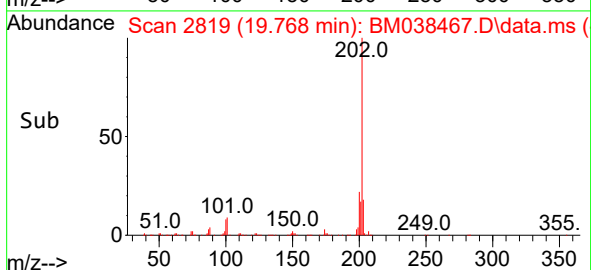
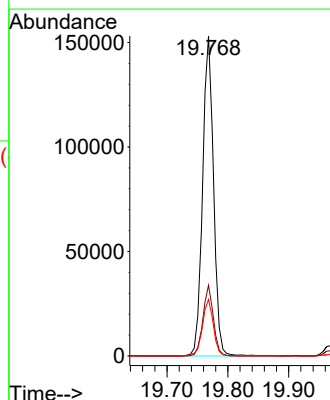
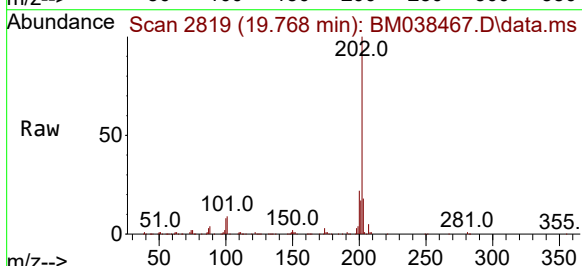
Tgt Ion:202 Resp: 191323

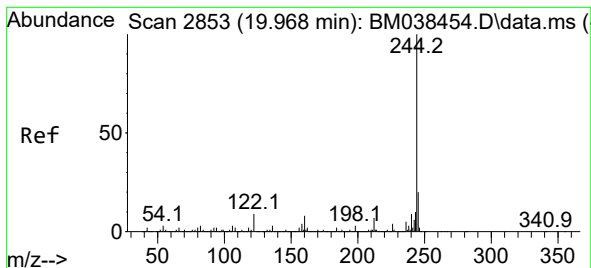
Ion Ratio Lower Upper

202 100

200 22.1 16.9 25.3

203 17.7 14.2 21.2





#79

Terphenyl-d14

Concen: 74.418 ng

RT: 19.968 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

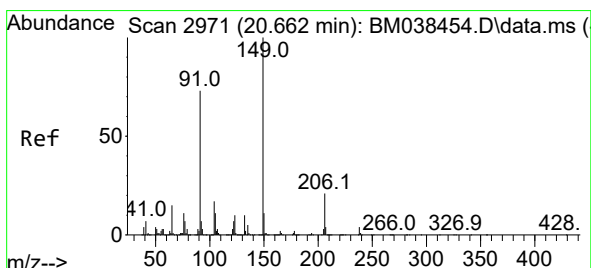
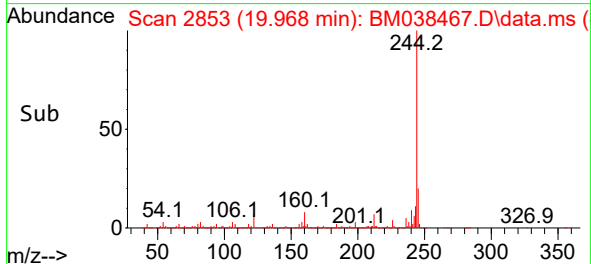
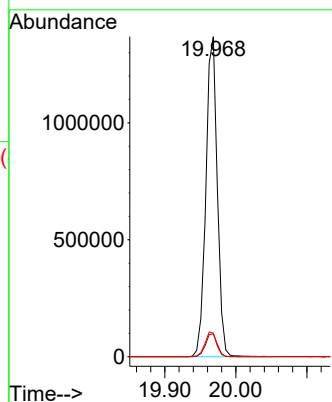
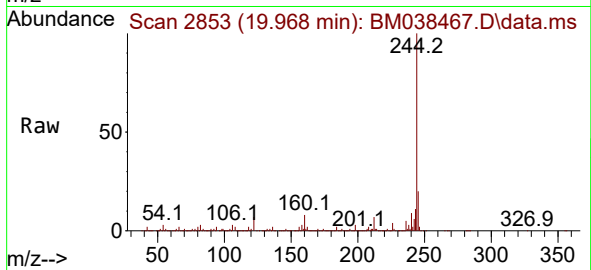
Tgt Ion:244 Resp: 1529399

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 7.3 7.1 10.7



#80

Butylbenzylphthalate

Concen: 7.671 ng

RT: 20.656 min Scan# 2970

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

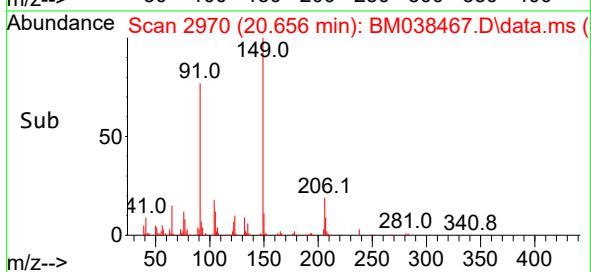
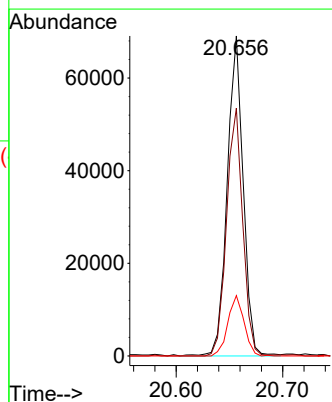
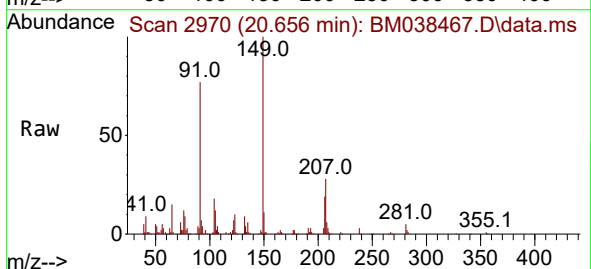
Tgt Ion:149 Resp: 71793

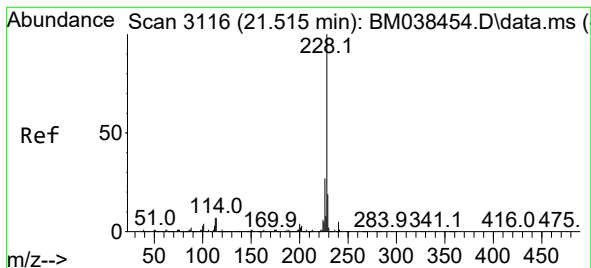
Ion Ratio Lower Upper

149 100

91 77.5 58.3 87.5

206 18.9 16.7 25.1





#81

Benzo(a)anthracene

Concen: 7.720 ng

RT: 21.509 min Scan# 3115

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

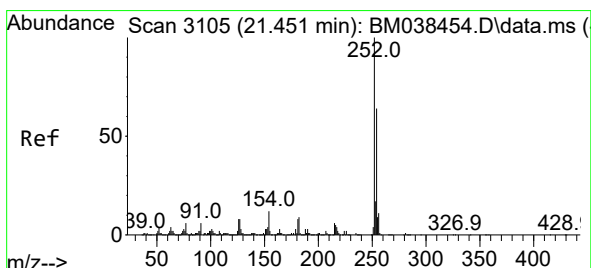
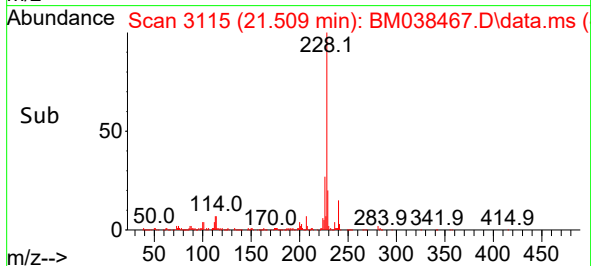
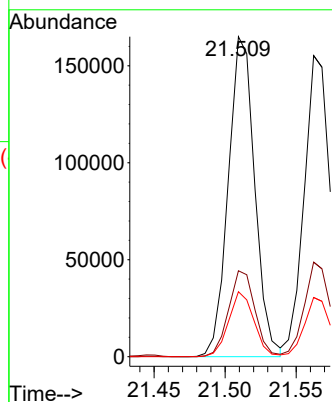
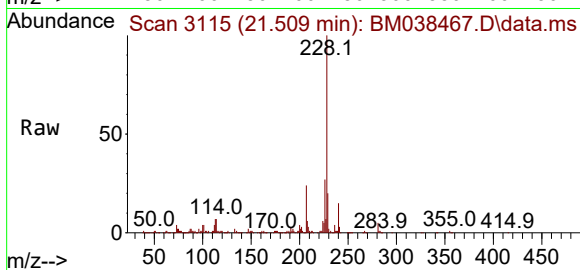
Tgt Ion:228 Resp: 213607

Ion Ratio Lower Upper

228 100

226 26.8 22.0 33.0

229 20.3 15.4 23.0



#82

3,3'-Dichlorobenzidine

Concen: 8.706 ng

RT: 21.445 min Scan# 3104

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

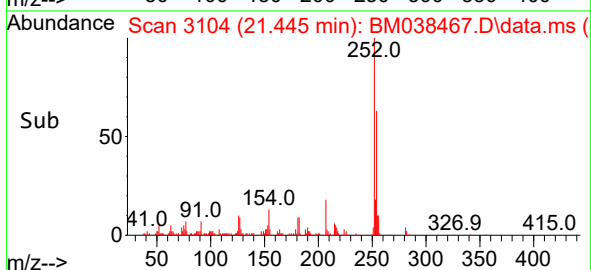
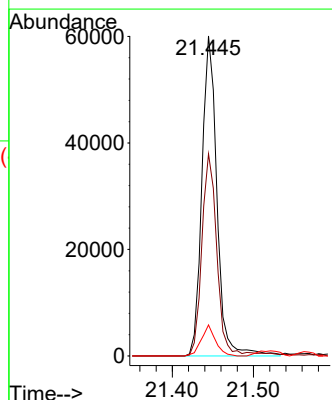
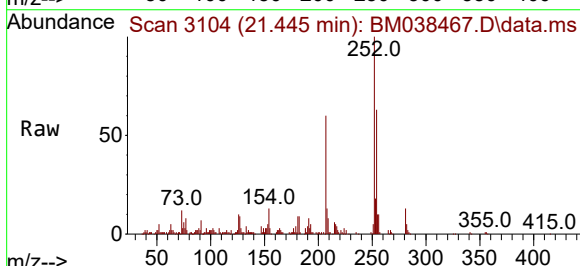
Tgt Ion:252 Resp: 77566

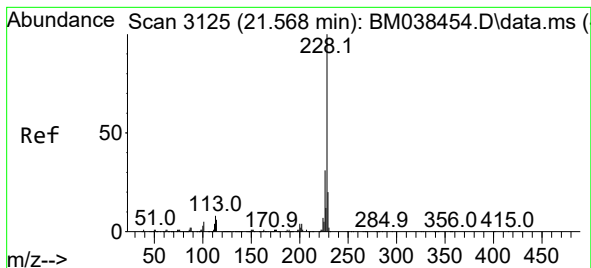
Ion Ratio Lower Upper

252 100

254 63.2 51.2 76.8

126 9.7 6.3 9.5#





#83

Chrysene

Concen: 7.526 ng

RT: 21.562 min Scan# 3125

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

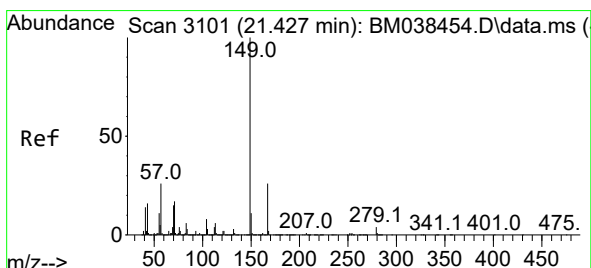
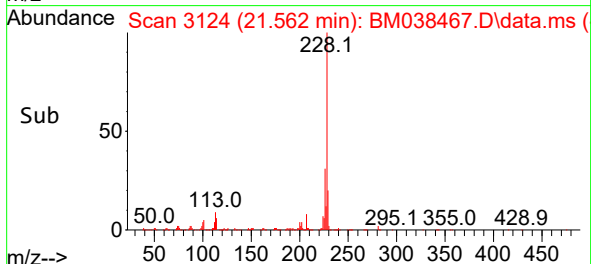
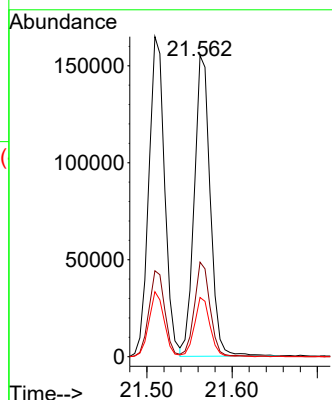
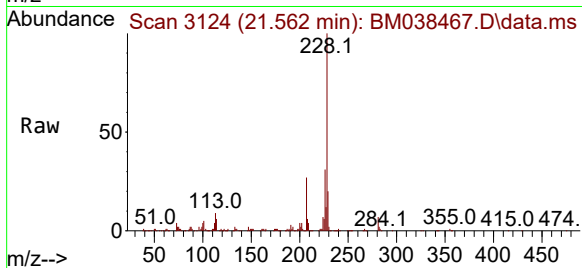
Tgt Ion:228 Resp: 202370

Ion Ratio Lower Upper

228 100

226 31.4 24.6 36.8

229 19.7 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 7.673 ng

RT: 21.421 min Scan# 3100

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

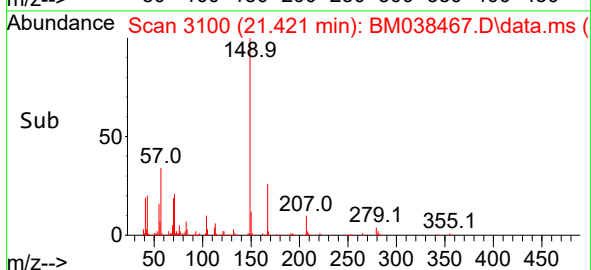
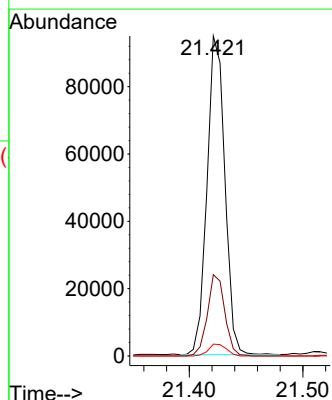
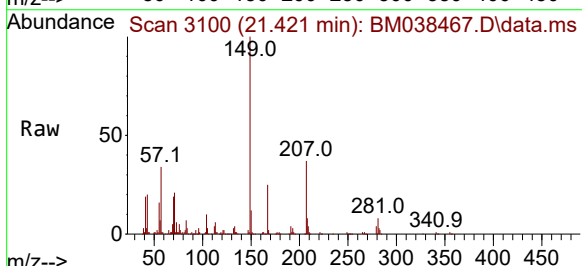
Tgt Ion:149 Resp: 103223

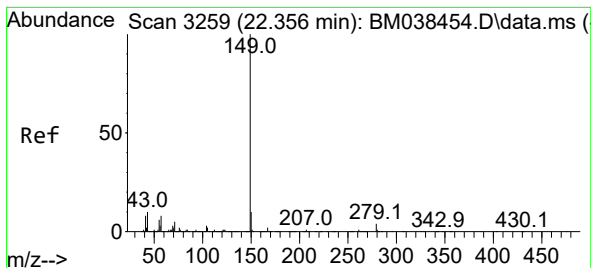
Ion Ratio Lower Upper

149 100

167 25.4 21.0 31.4

279 3.7 3.4 5.0





#85

Di-n-octyl phthalate

Concen: 7.778 ng

RT: 22.350 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

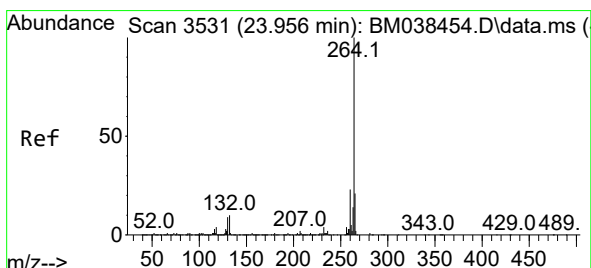
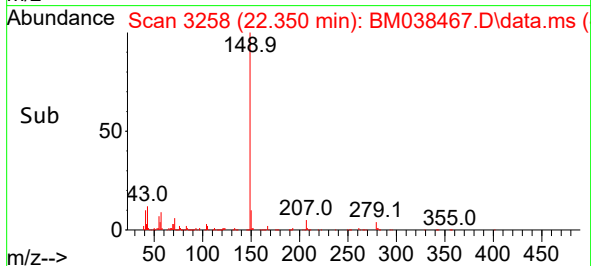
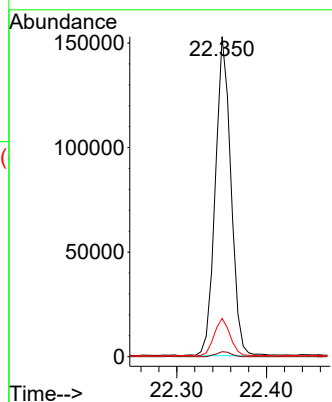
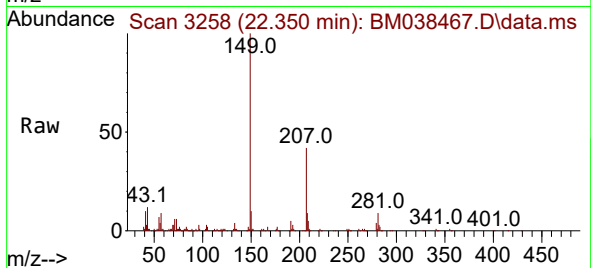
Tgt Ion:149 Resp: 184120

Ion Ratio Lower Upper

149 100

167 1.5 1.3 1.9

43 12.0 8.4 12.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.944 min Scan# 3529

Delta R.T. -0.012 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

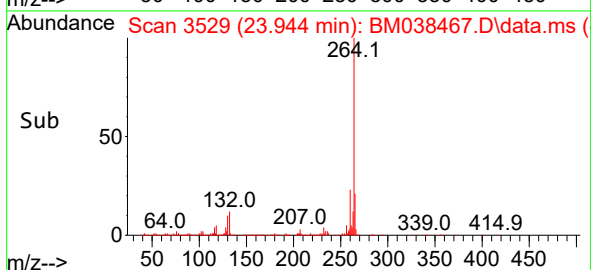
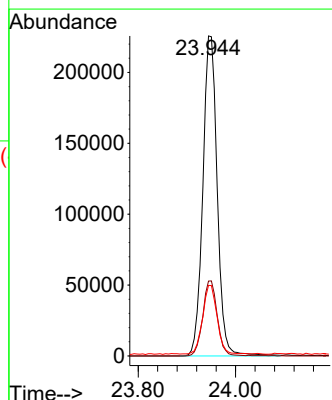
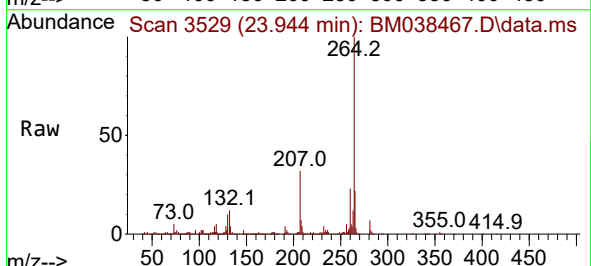
Tgt Ion:264 Resp: 463640

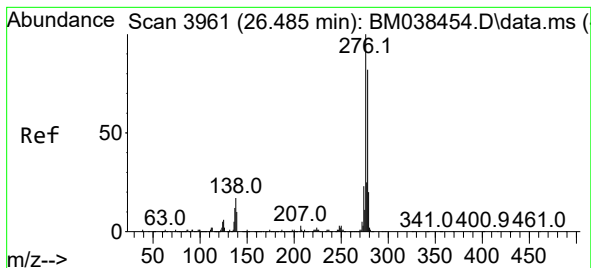
Ion Ratio Lower Upper

264 100

260 23.4 18.2 27.4

265 22.1 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.128 ng

RT: 26.468 min Scan# 3958

Delta R.T. -0.018 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

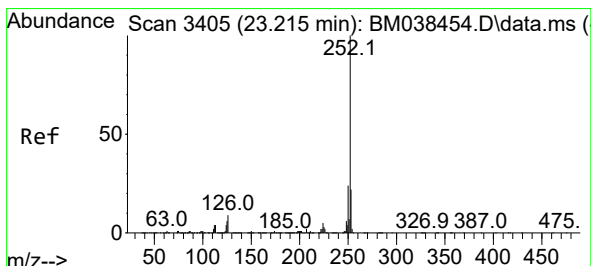
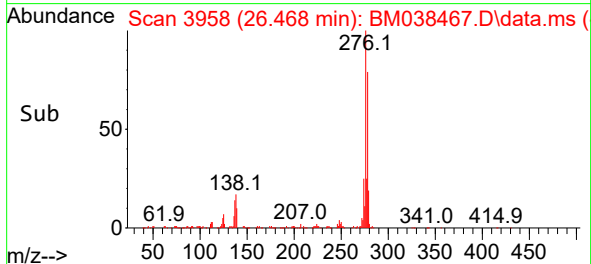
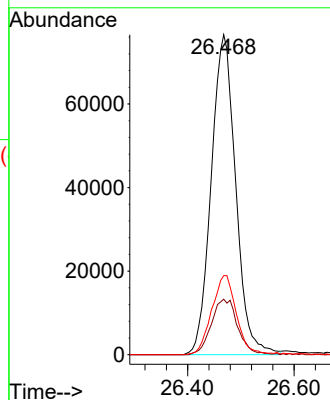
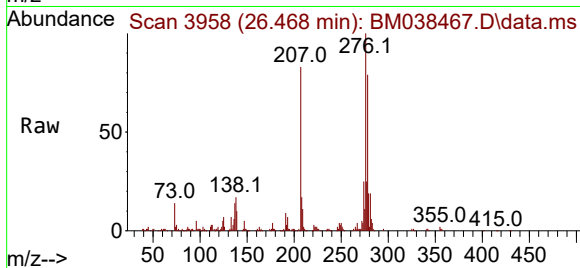
Tgt Ion:276 Resp: 244574

Ion Ratio Lower Upper

276 100

138 18.6 13.4 20.2

277 24.9 19.8 29.8



#88

Benzo(b)fluoranthene

Concen: 7.884 ng

RT: 23.209 min Scan# 3404

Delta R.T. -0.006 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

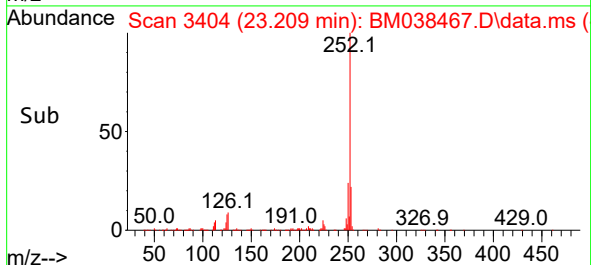
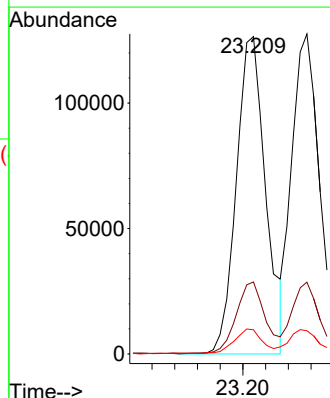
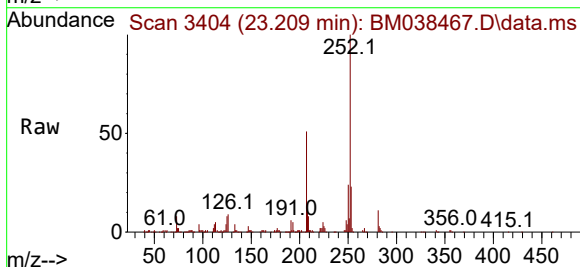
Tgt Ion:252 Resp: 226659

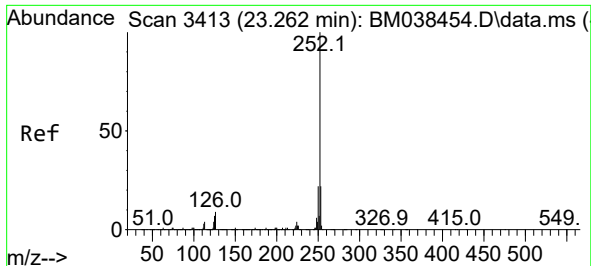
Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.6

125 7.6 5.1 7.7

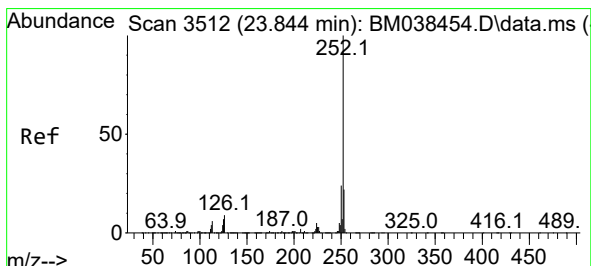
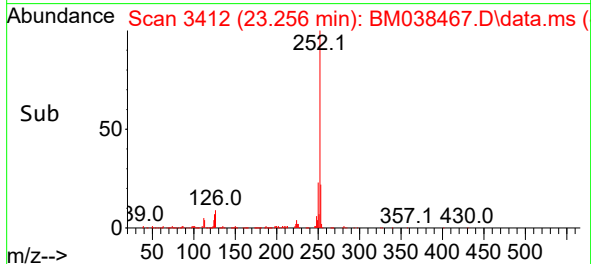
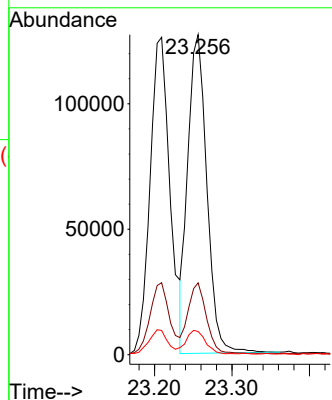
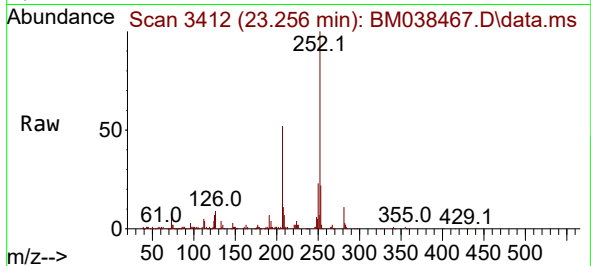




#89
Benzo(k)fluoranthene
Concen: 7.295 ng
RT: 23.256 min Scan# 3413
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

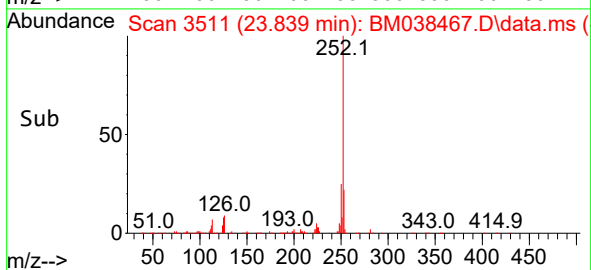
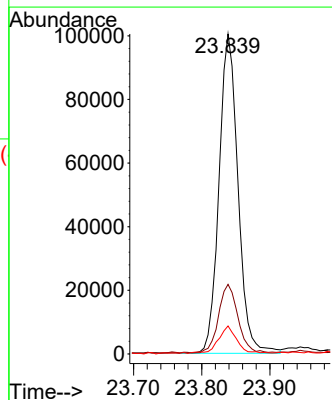
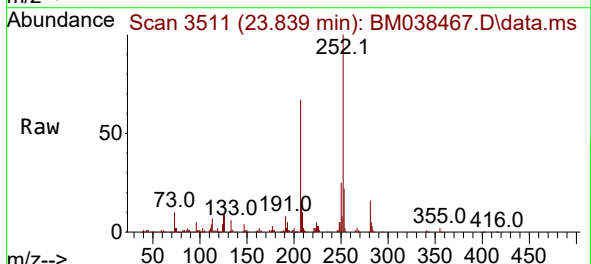
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

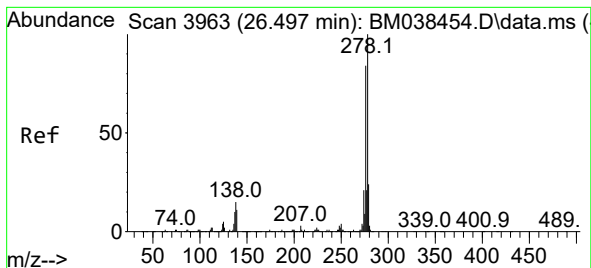
Tgt Ion:252 Resp: 216867
Ion Ratio Lower Upper
252 100
253 22.5 17.6 26.4
125 7.3 5.5 8.3



#90
Benzo(a)pyrene
Concen: 6.910 ng
RT: 23.839 min Scan# 3511
Delta R.T. -0.006 min
Lab File: BM038467.D
Acq: 17 Jan 2023 16:53

Tgt Ion:252 Resp: 194960
Ion Ratio Lower Upper
252 100
253 21.8 17.6 26.4
125 8.7 5.8 8.8





#91

Dibenzo(a,h)anthracene

Concen: 7.568 ng

RT: 26.480 min Scan# 3960

Delta R.T. -0.018 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

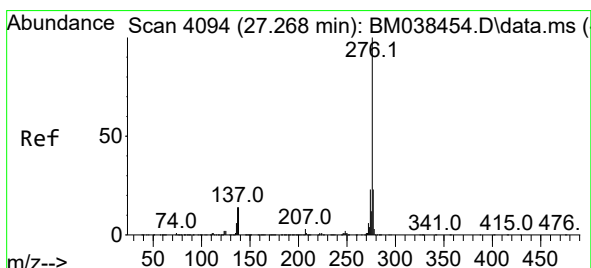
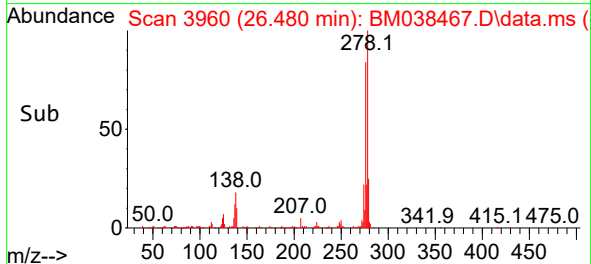
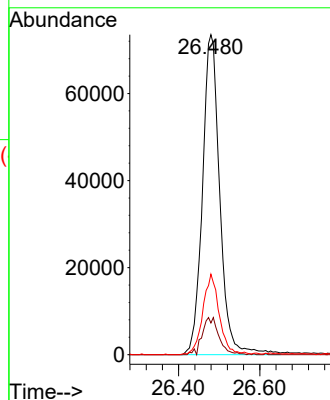
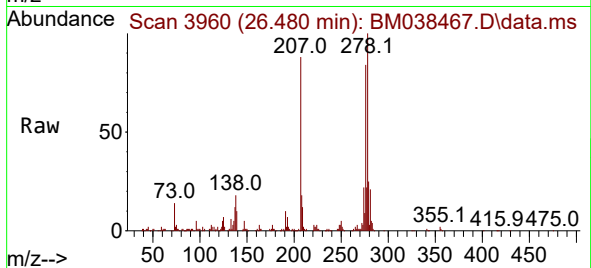
Tgt Ion:278 Resp: 217912

Ion Ratio Lower Upper

278 100

139 9.9 8.4 12.6

279 25.2 19.0 28.6



#92

Benzo(g,h,i)perylene

Concen: 7.612 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.024 min

Lab File: BM038467.D

Acq: 17 Jan 2023 16:53

Tgt Ion:276 Resp: 217437

Ion Ratio Lower Upper

276 100

277 21.6 18.6 27.8

138 15.5 11.3 16.9

