

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM012523\
 Data File : BM038530.D
 Acq On : 25 Jan 2023 13:29
 Operator : CG/JU
 Sample : N4955-03
 Misc : MDL-MDL-SOIL 8ppm
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT4-2022

Quant Time: Jan 25 23:14:57 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM012023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 21 01:21:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	39632	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	173975	20.000	ng	0.00
39) Acenaphthene-d10	14.598	164	111128	20.000	ng	0.00
64) Phenanthrene-d10	17.339	188	256045	20.000	ng	# 0.00
76) Chrysene-d12	21.515	240	290559	20.000	ng	0.00
86) Perylene-d12	23.927	264	363851	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	280265	116.904	ng	0.00
7) Phenol-d6	7.128	99	353262	115.491	ng	0.00
23) Nitrobenzene-d5	9.139	82	235774	58.850	ng	0.00
42) 2,4,6-Tribromophenol	16.086	330	225601	140.976	ng	0.00
45) 2-Fluorobiphenyl	13.227	172	714833	79.237	ng	0.00
79) Terphenyl-d14	19.956	244	1211752	81.303	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.375	88	11662	10.371	ng	93
3) Pyridine	3.804	79	25015	8.470	ng	# 93
4) n-Nitrosodimethylamine	3.710	42	15079	10.756	ng	85
6) Aniline	7.292	93	26734	7.041	ng	96
8) 2-Chlorophenol	7.522	128	20150	8.228	ng	98
9) Benzaldehyde	7.110	77	18338	10.107	ng	99
10) Phenol	7.151	94	23713	7.758	ng	86
11) bis(2-Chloroethyl)ether	7.392	93	17307	7.177	ng	99
12) 1,3-Dichlorobenzene	7.851	146	23912	8.588	ng	95
13) 1,4-Dichlorobenzene	7.998	146	23849	8.477	ng	99
14) 1,2-Dichlorobenzene	8.316	146	23246	8.531	ng	97
15) Benzyl Alcohol	8.216	79	16865	7.374	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.486	45	17185	6.786	ng	95
17) 2-Methylphenol	8.410	107	14800	6.841	ng	96
18) Hexachloroethane	9.039	117	8774	8.389	ng	87
19) n-Nitroso-di-n-propyla...	8.775	70	14290	6.698	ng	93
20) 3+4-Methylphenols	8.739	107	20323	7.009	ng	95
22) Acetophenone	8.798	105	29137	6.079	ng	95
24) Nitrobenzene	9.181	77	24935	6.151	ng	95
25) Isophorone	9.704	82	38739	5.859	ng	99
26) 2-Nitrophenol	9.892	139	10427	6.480	ng	98
27) 2,4-Dimethylphenol	9.951	122	16112	6.017	ng	98
28) bis(2-Chloroethoxy)met...	10.186	93	27274	7.052	ng	95
29) 2,4-Dichlorophenol	10.427	162	24349	7.750	ng	96
30) 1,2,4-Trichlorobenzene	10.639	180	30296	8.432	ng	97
31) Naphthalene	10.827	128	73373	7.763	ng	99
32) Benzoic acid	10.028	122	6466	8.314	ng	99
33) 4-Chloroaniline	10.945	127	28421	7.205	ng	96
34) Hexachlorobutadiene	11.098	225	21225	8.981	ng	95
35) Caprolactam	11.722	113	4770	6.263	ng	91
36) 4-Chloro-3-methylphenol	12.063	107	21263	7.443	ng	94
37) 2-Methylnaphthalene	12.427	142	47424	6.982	ng	94
38) 1-Methylnaphthalene	12.427	142	47424	7.403	ng	99
40) 1,2,4,5-Tetrachloroben...	12.792	216	34879	8.344	ng	99
41) Hexachlorocyclopentadiene	12.769	237	17964	7.819	ng	99
43) 2,4,6-Trichlorophenol	13.039	196	20147	7.529	ng	98

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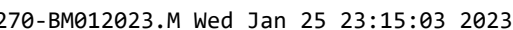
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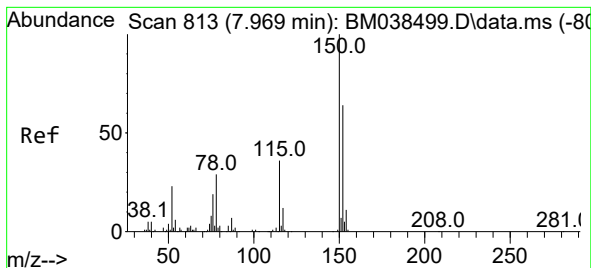
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.116	196	21595	6.890	ng	96
46) 1,1'-Biphenyl	13.433	154	70466	7.918	ng	97
47) 2-Chloronaphthalene	13.480	162	54962	7.911	ng	99
48) 2-Nitroaniline	13.692	65	13448	6.591	ng	95
49) Acenaphthylene	14.321	152	78313	7.205	ng	99
50) Dimethylphthalate	14.057	163	64831	7.579	ng	99
51) 2,6-Dinitrotoluene	14.186	165	13169	7.315	ng	96
52) Acenaphthene	14.663	154	49037	7.397	ng	99
53) 3-Nitroaniline	14.515	138	11074	6.190	ng	89
54) 2,4-Dinitrophenol	14.727	184	6472	9.180	ng	91
55) Dibenzofuran	14.998	168	84083	7.587	ng	96
56) 4-Nitrophenol	14.827	139	8339	5.660	ng	97
57) 2,4-Dinitrotoluene	14.968	165	16442	6.737	ng	90
58) Fluorene	15.645	166	67387	7.498	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.221	232	19157	7.478	ng	98
60) Diethylphthalate	15.410	149	62203	7.425	ng	100
61) 4-Chlorophenyl-phenyle...	15.633	204	36847	7.809	ng	99
62) 4-Nitroaniline	15.674	138	10424	8.099	ng	95
63) Azobenzene	15.927	77	64174	7.230	ng	98
65) 4,6-Dinitro-2-methylph...	15.727	198	10367	6.238	ng	98
66) n-Nitrosodiphenylamine	15.851	169	56195	7.311	ng	99
67) 4-Bromophenyl-phenylether	16.527	248	21728	7.650	ng	95
68) Hexachlorobenzene	16.639	284	26922	8.785	ng	96
69) Atrazine	16.798	200	20500	7.994	ng	98
70) Pentachlorophenol	16.992	266	14087	6.456	ng	97
71) Phenanthrene	17.380	178	111466	7.796	ng	98
72) Anthracene	17.474	178	107142	7.364	ng	99
73) Carbazole	17.745	167	94301	7.360	ng	98
74) Di-n-butylphthalate	18.298	149	96168	6.832	ng	98
75) Fluoranthene	19.392	202	131326	7.642	ng	98
77) Benzidine	19.580	184	57989	8.758	ng	98
78) Pyrene	19.756	202	141435	6.991	ng	99
80) Butylbenzylphthalate	20.644	149	44486	6.359	ng	100
81) Benzo(a)anthracene	21.497	228	163564	7.944	ng	98
82) 3,3'-Dichlorobenzidine	21.433	252	57246	8.656	ng #	95
83) Chrysene	21.550	228	154115	7.654	ng	100
84) Bis(2-ethylhexyl)phtha...	21.409	149	64988	6.410	ng #	97
85) Di-n-octyl phthalate	22.333	149	117182	6.500	ng	97
87) Indeno(1,2,3-cd)pyrene	26.432	276	205431	7.630	ng	98
88) Benzo(b)fluoranthene	23.185	252	174396	7.946	ng	97
89) Benzo(k)fluoranthene	23.233	252	176183	7.757	ng	99
90) Benzo(a)pyrene	23.815	252	154991	7.122	ng	98
91) Dibenzo(a,h)anthracene	26.444	278	173479	7.741	ng	97
92) Benzo(g,h,i)perylene	27.209	276	181062	7.887	ng	97

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

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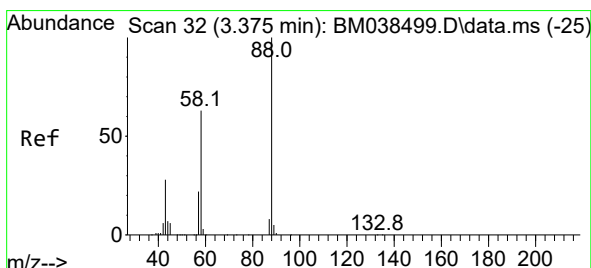
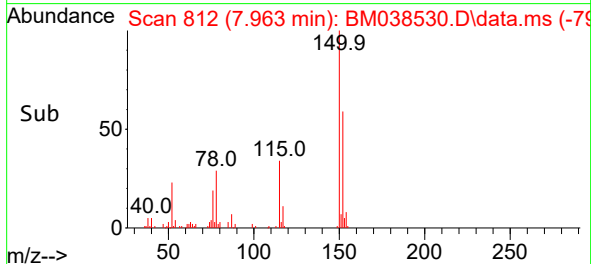
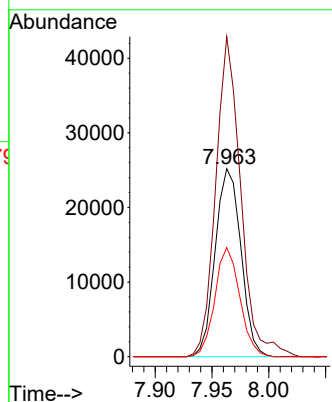
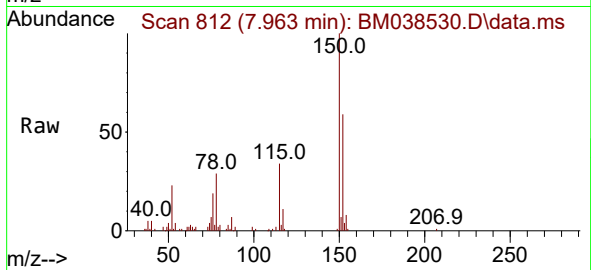




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.963 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

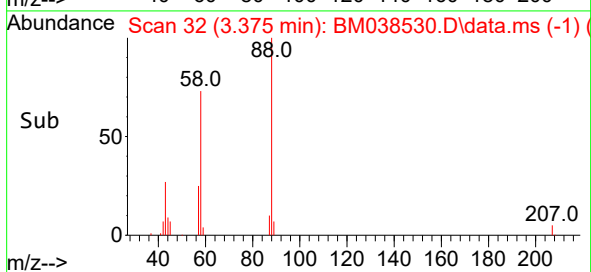
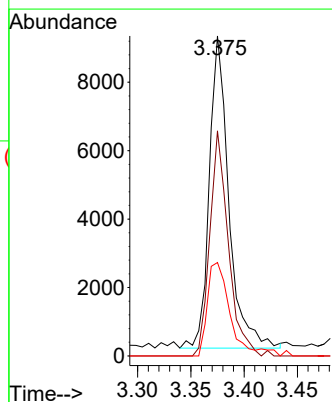
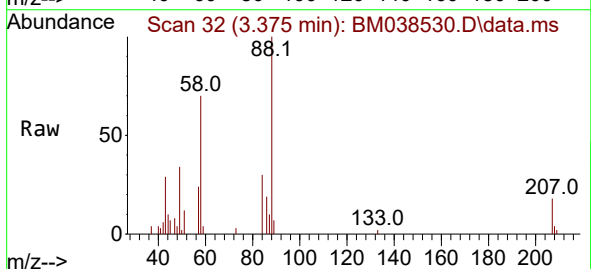
Instrument :
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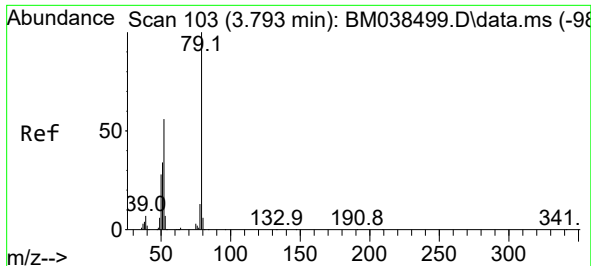
Tgt Ion:152 Resp: 39632
Ion Ratio Lower Upper
152 100
150 170.1 124.2 186.4
115 58.1 44.8 67.2



#2
1,4-Dioxane
Concen: 10.371 ng
RT: 3.375 min Scan# 32
Delta R.T. -0.000 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 88 Resp: 11662
Ion Ratio Lower Upper
88 100
58 68.4 50.5 75.7
43 33.1 23.9 35.9

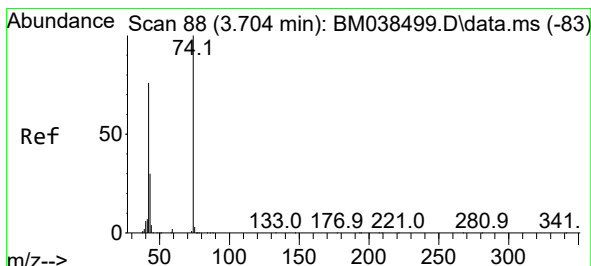
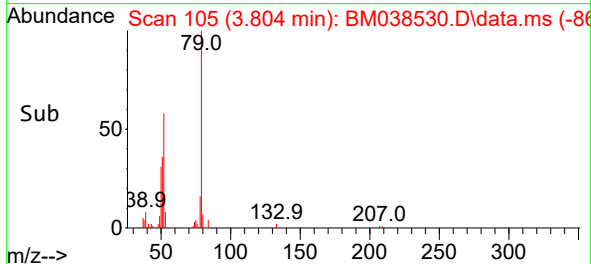
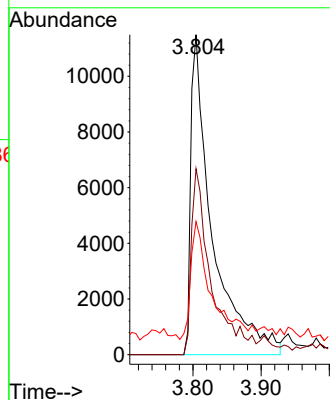
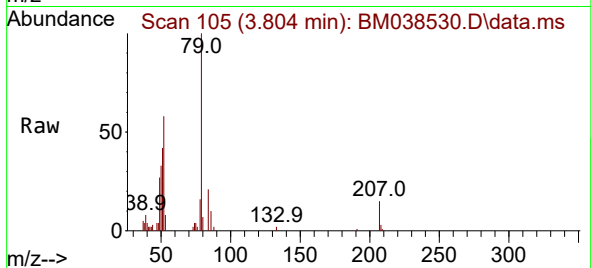




#3
Pyridine
Concen: 8.470 ng
RT: 3.804 min Scan# 104
Delta R.T. 0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

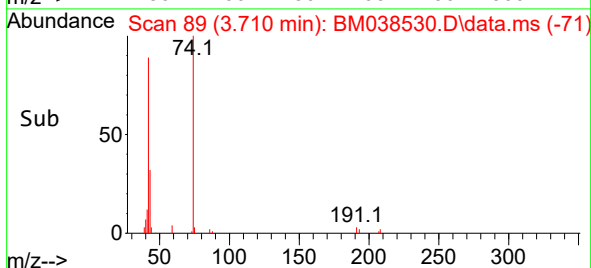
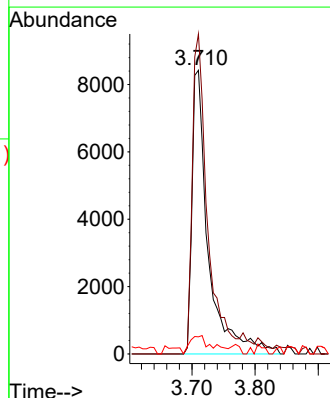
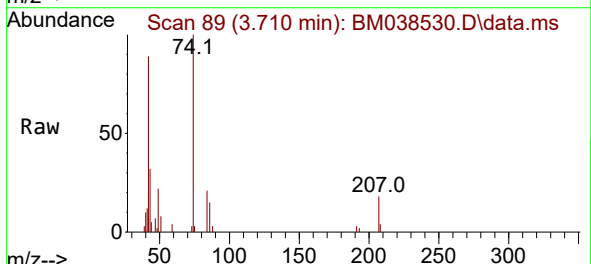
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

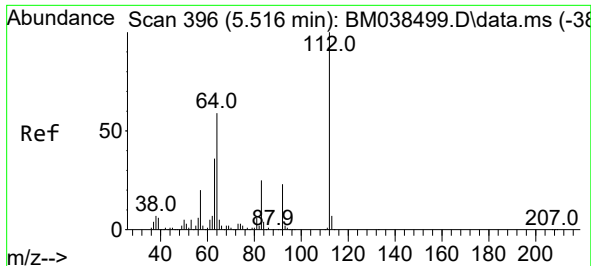
Tgt Ion: 79 Resp: 25015
Ion Ratio Lower Upper
79 100
52 58.1 45.0 67.4
51 41.6 27.1 40.7#



#4
n-Nitrosodimethylamine
Concen: 10.756 ng
RT: 3.710 min Scan# 89
Delta R.T. 0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 42 Resp: 15079
Ion Ratio Lower Upper
42 100
74 112.8 105.0 157.4
44 6.1 4.1 6.1

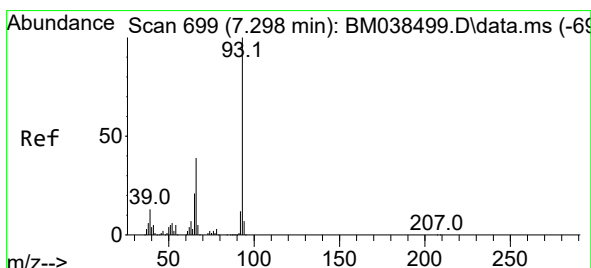
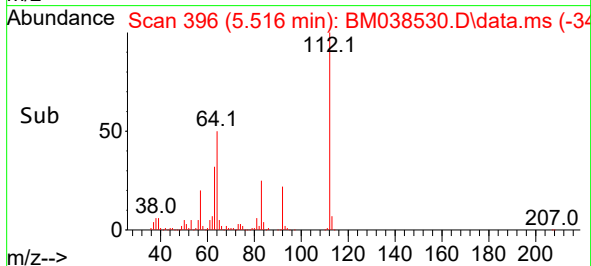
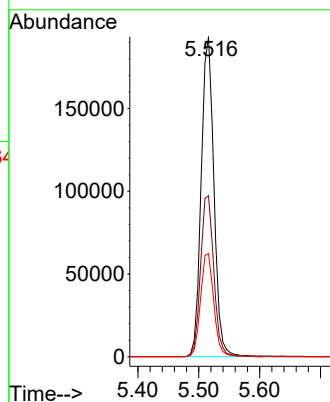
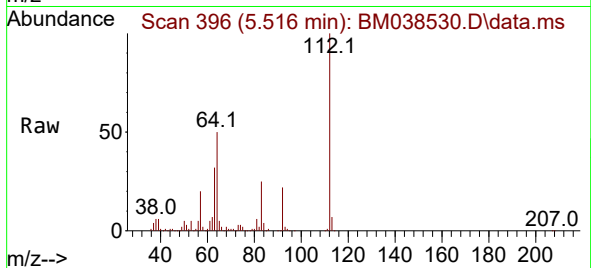




#5
2-Fluorophenol
Concen: 116.904 ng
RT: 5.516 min Scan# 396
Delta R.T. -0.000 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

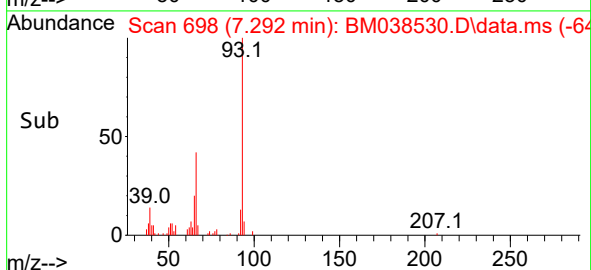
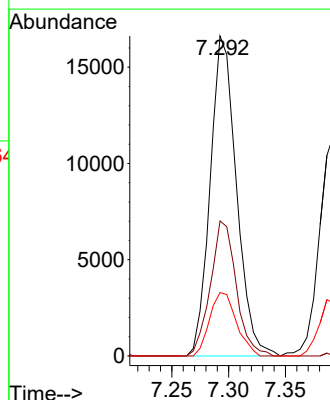
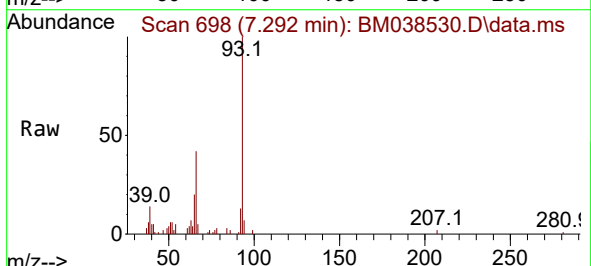
Instrument :
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ClientSampleId :
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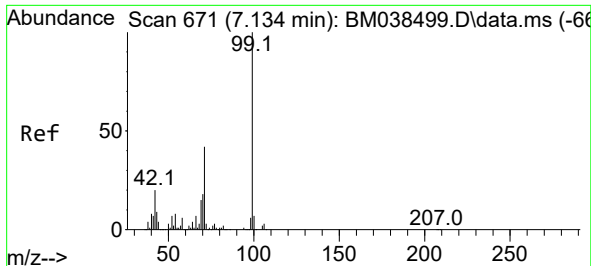
Tgt Ion:112 Resp: 280265
Ion Ratio Lower Upper
112 100
64 50.3 47.3 70.9
63 32.2 28.8 43.2



#6
Aniline
Concen: 7.041 ng
RT: 7.292 min Scan# 698
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 93 Resp: 26734
Ion Ratio Lower Upper
93 100
66 42.2 31.6 47.4
65 19.8 16.6 24.8

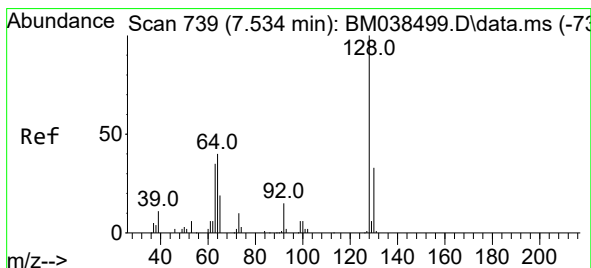
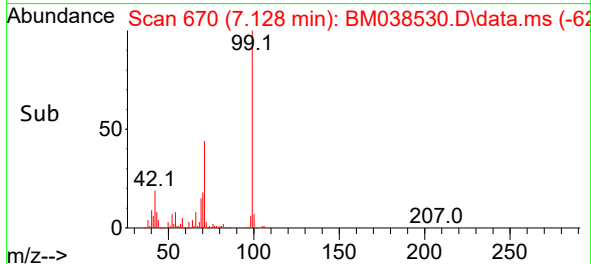
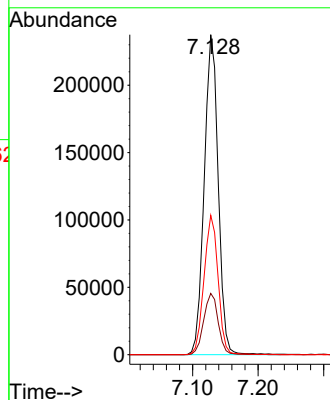
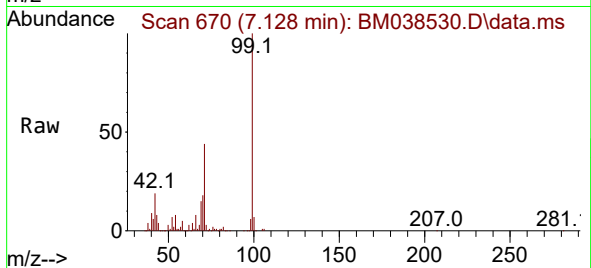




#7
Phenol-d6
Concen: 115.491 ng
RT: 7.128 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

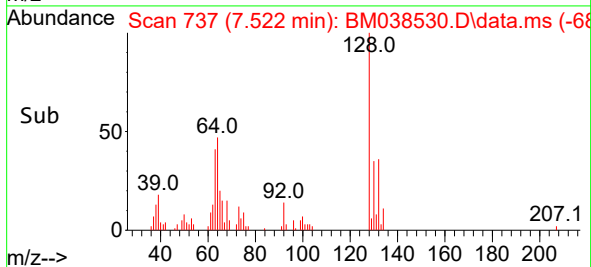
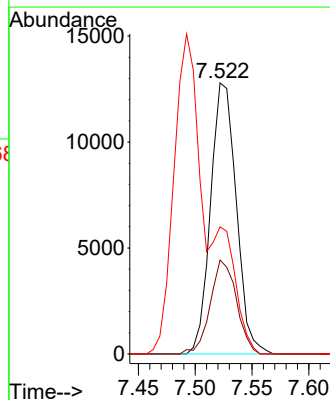
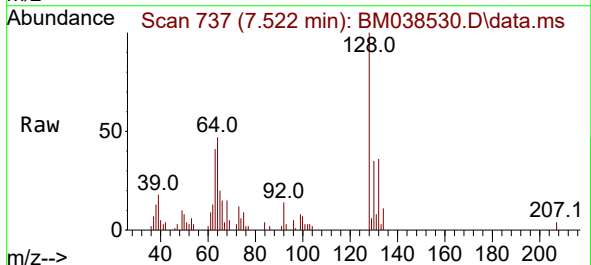
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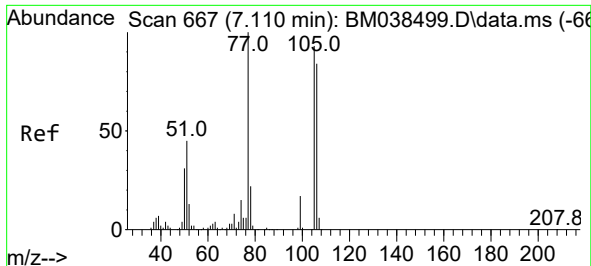
Tgt Ion: 99 Resp: 353262
Ion Ratio Lower Upper
99 100
42 19.2 16.0 24.0
71 43.5 33.8 50.6



#8
2-Chlorophenol
Concen: 8.228 ng
RT: 7.522 min Scan# 737
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 128 Resp: 20150
Ion Ratio Lower Upper
128 100
130 34.6 13.2 53.2
64 46.9 27.7 67.7

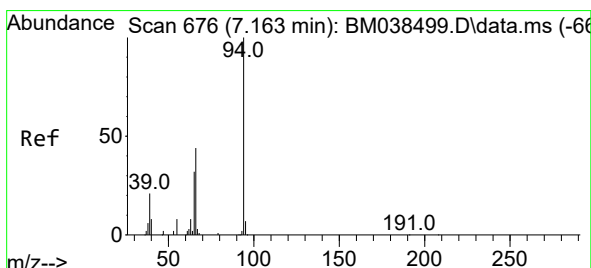
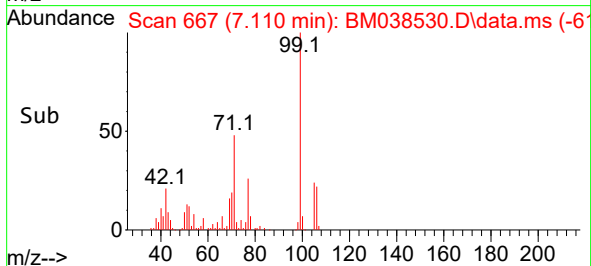
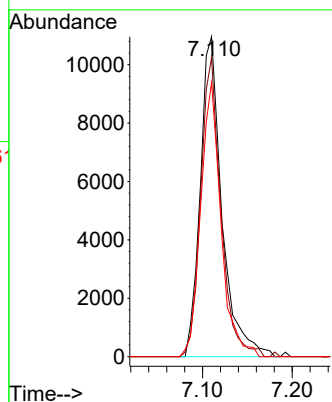
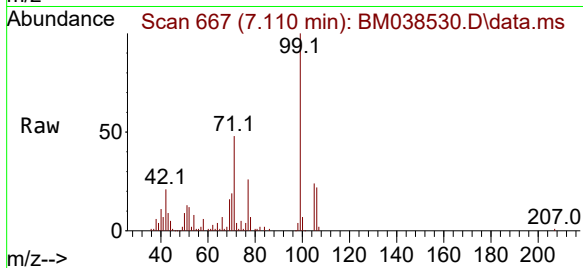




#9
Benzaldehyde
Concen: 10.107 ng
RT: 7.110 min Scan# 667
Delta R.T. 0.000 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

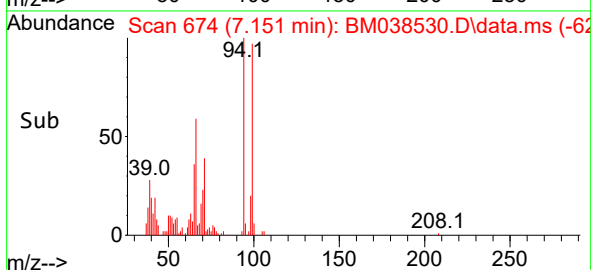
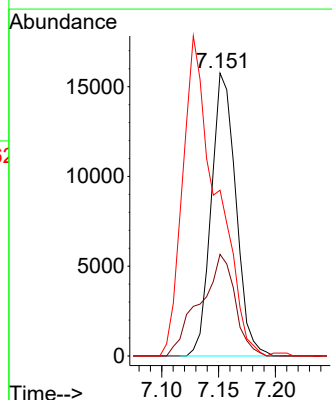
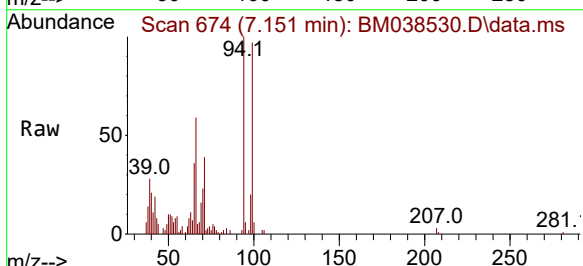
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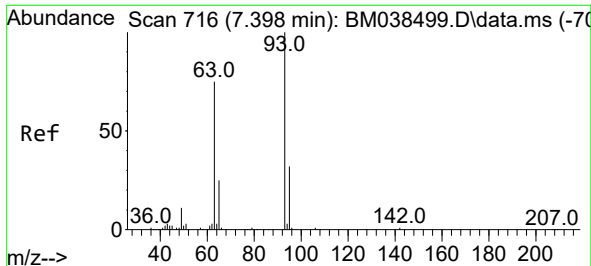
Tgt Ion: 77 Resp: 18338
Ion Ratio Lower Upper
77 100
105 93.5 72.9 112.9
106 85.7 63.8 103.8



#10
Phenol
Concen: 7.758 ng
RT: 7.151 min Scan# 674
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 94 Resp: 23713
Ion Ratio Lower Upper
94 100
65 35.9 12.7 52.7
66 58.7 26.0 66.0

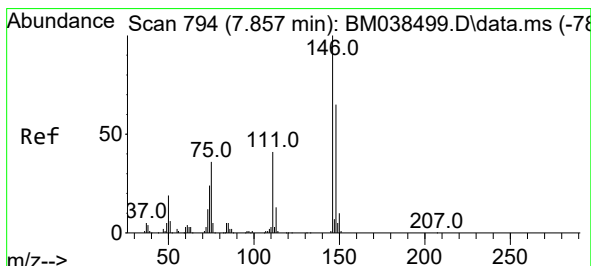
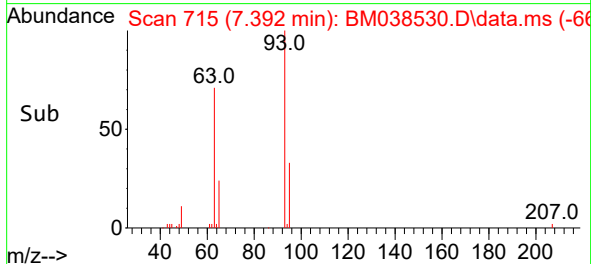
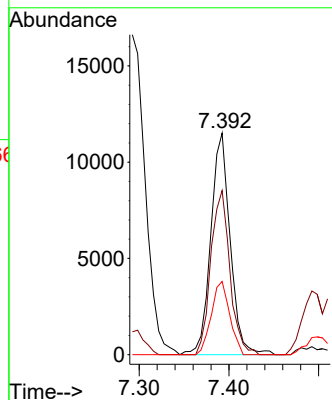
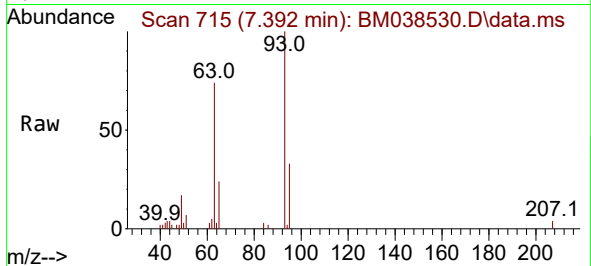




#11
bis(2-Chloroethyl)ether
Concen: 7.177 ng
RT: 7.392 min Scan# 716
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

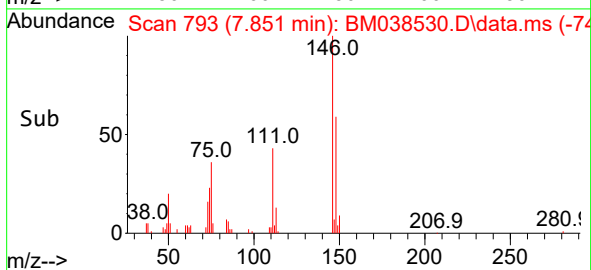
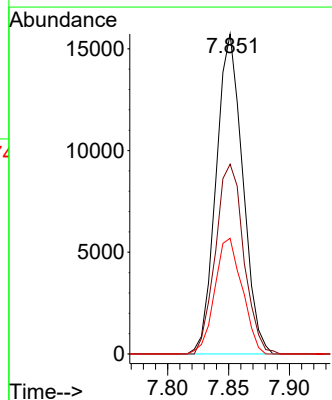
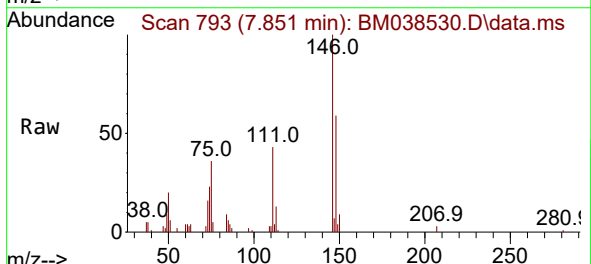
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

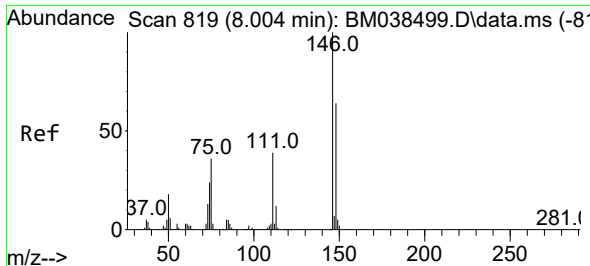
Tgt Ion: 93 Resp: 17307
Ion Ratio Lower Upper
93 100
63 74.1 54.4 94.4
95 33.1 11.4 51.4



#12
1,3-Dichlorobenzene
Concen: 8.588 ng
RT: 7.851 min Scan# 793
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 146 Resp: 23912
Ion Ratio Lower Upper
146 100
148 59.3 52.1 78.1
75 36.2 28.7 43.1

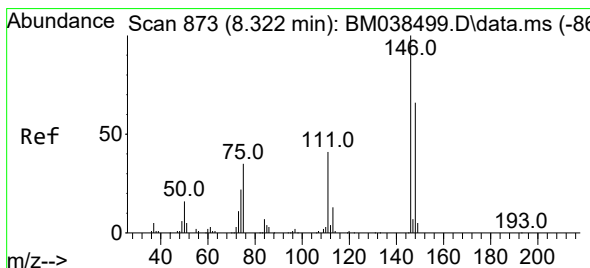
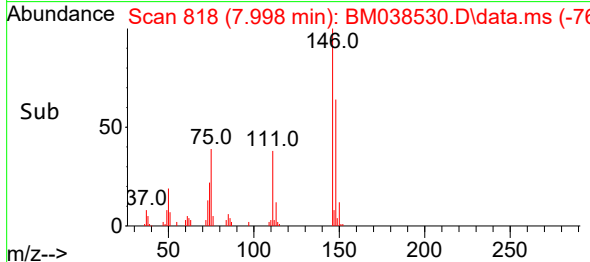
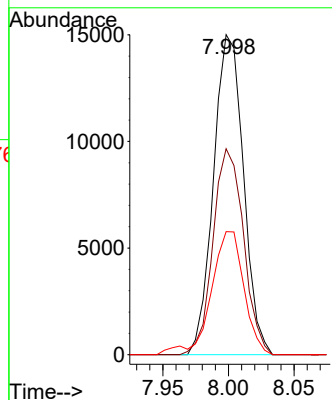
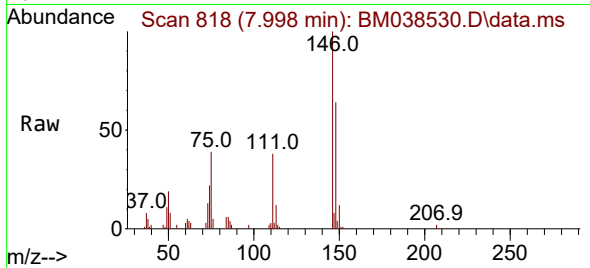




#13
1,4-Dichlorobenzene
Concen: 8.477 ng
RT: 7.998 min Scan# 819
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

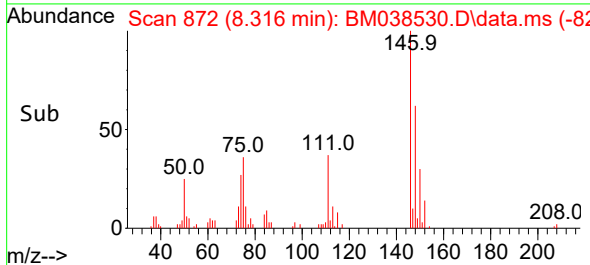
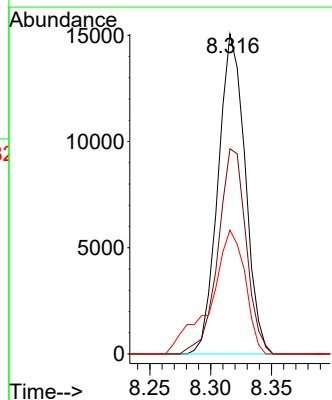
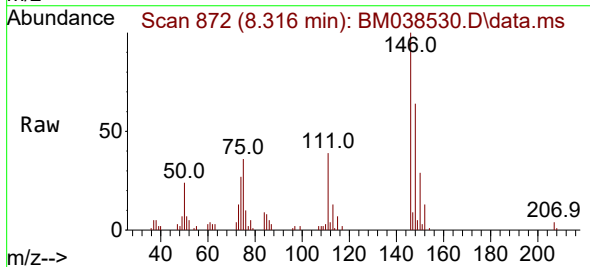
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

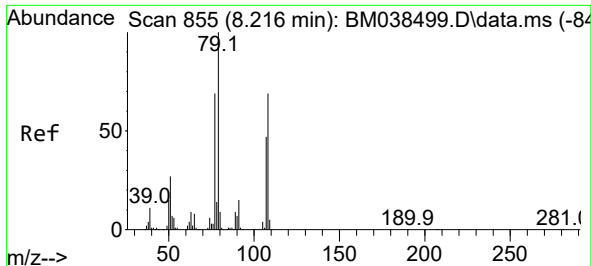
Tgt Ion:146 Resp: 23849
Ion Ratio Lower Upper
146 100
148 64.4 51.3 76.9
111 38.5 31.4 47.0



#14
1,2-Dichlorobenzene
Concen: 8.531 ng
RT: 8.316 min Scan# 872
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:146 Resp: 23246
Ion Ratio Lower Upper
146 100
148 64.1 52.7 79.1
111 38.7 33.2 49.8

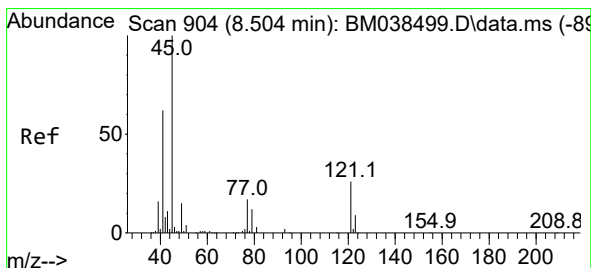
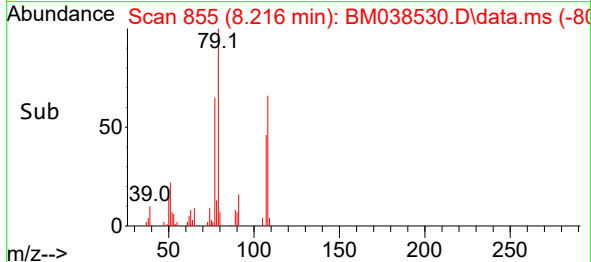
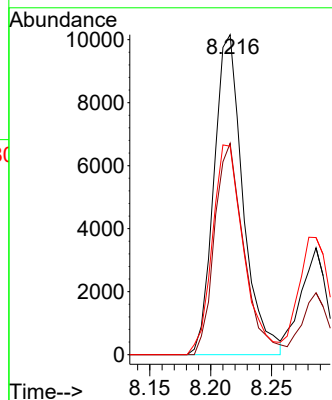
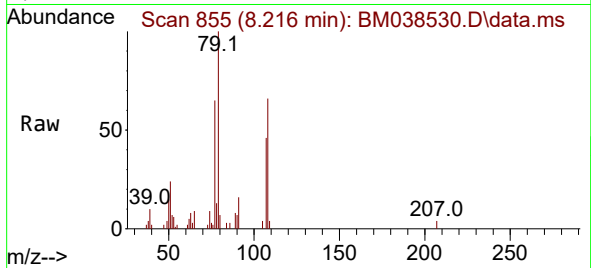




#15
Benzyl Alcohol
Concen: 7.374 ng
RT: 8.216 min Scan# 81
Delta R.T. 0.000 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

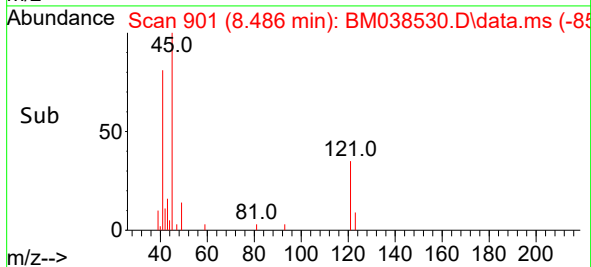
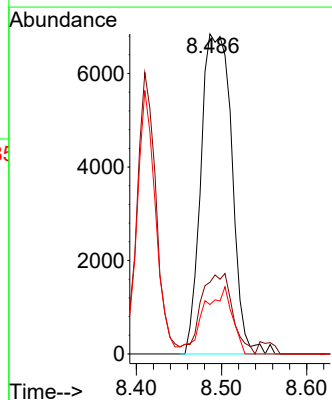
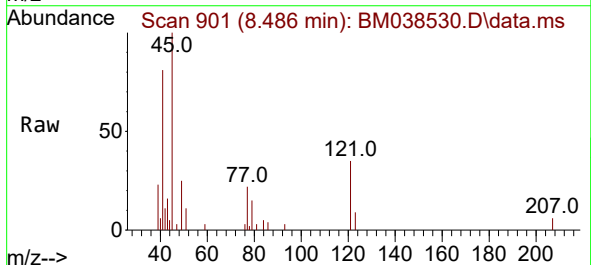
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

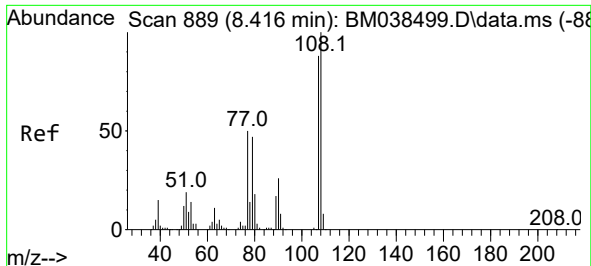
Tgt Ion: 79 Resp: 16865
Ion Ratio Lower Upper
79 100
108 66.1 55.0 82.6
77 65.2 55.0 82.4



#16
2,2'-oxybis(1-Chloropropane)
Concen: 6.786 ng
RT: 8.486 min Scan# 901
Delta R.T. -0.018 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 45 Resp: 17185
Ion Ratio Lower Upper
45 100
77 22.4 0.0 39.2
79 15.4 0.0 34.9

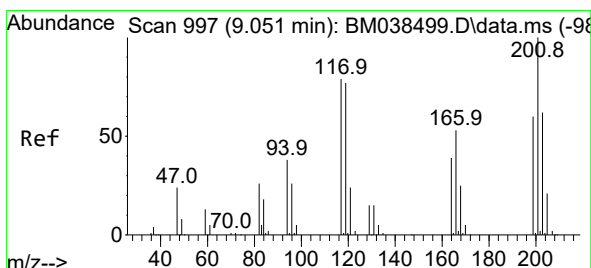
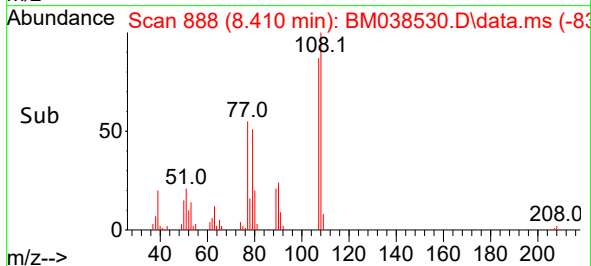
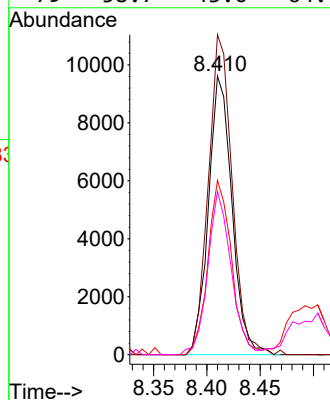
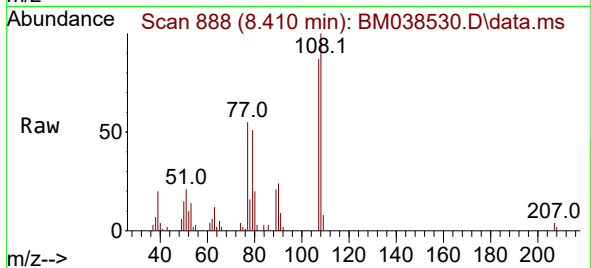




#17
2-Methylphenol
Concen: 6.841 ng
RT: 8.410 min Scan# 889
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

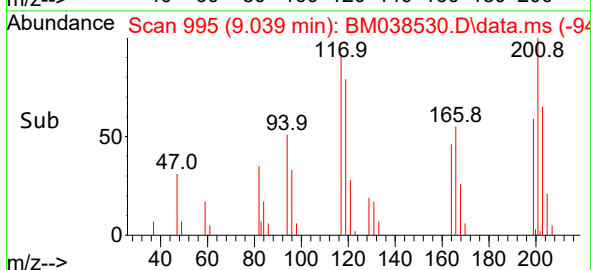
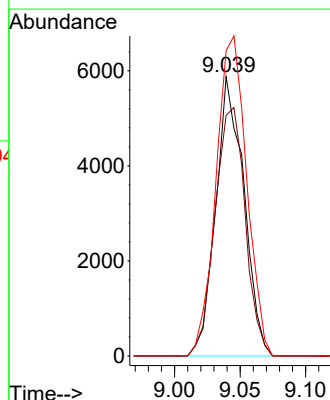
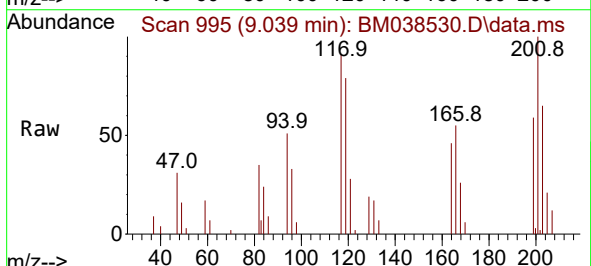
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

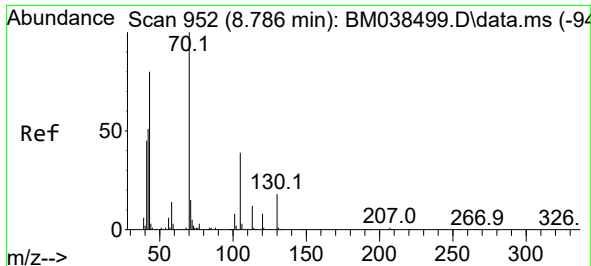
Tgt Ion:	107	Resp:	14800
Ion	Ratio	Lower	Upper
107	100		
108	114.9	90.8	136.2
77	62.6	46.1	69.1
79	58.7	43.0	64.4



#18
Hexachloroethane
Concen: 8.389 ng
RT: 9.039 min Scan# 995
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:	117	Resp:	8774
Ion	Ratio	Lower	Upper
117	100		
119	86.2	77.9	116.9
201	109.3	100.6	151.0

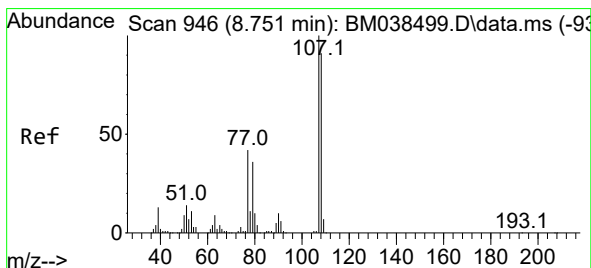
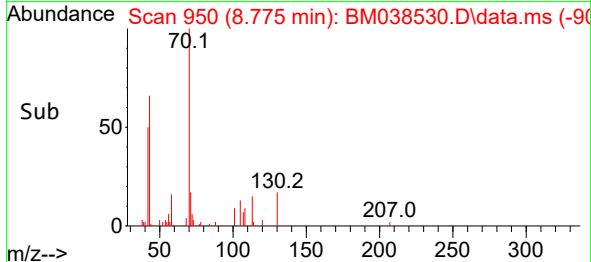
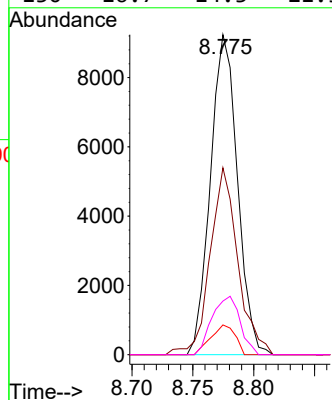
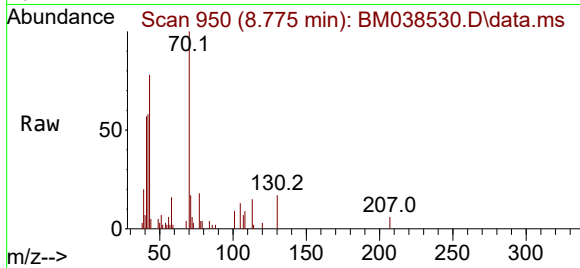




#19
n-Nitroso-di-n-propylamine
Concen: 6.698 ng
RT: 8.775 min Scan# 91
Delta R.T. -0.011 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

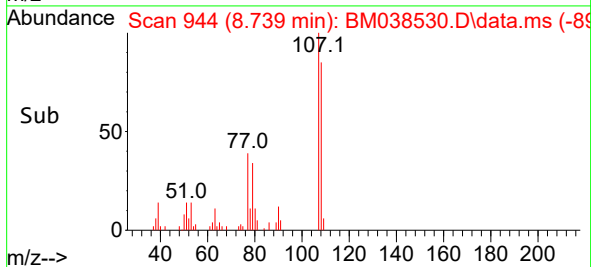
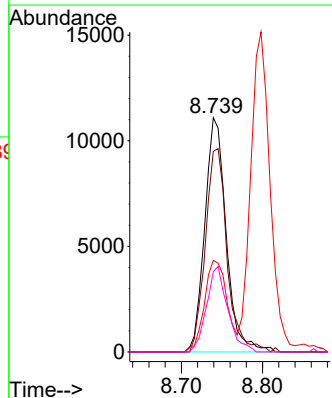
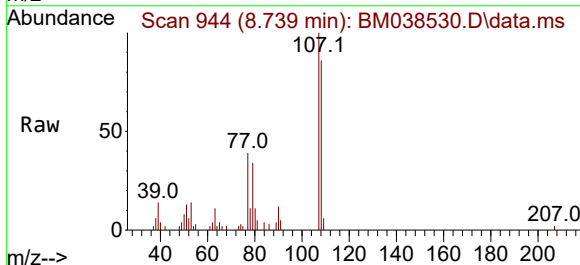
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

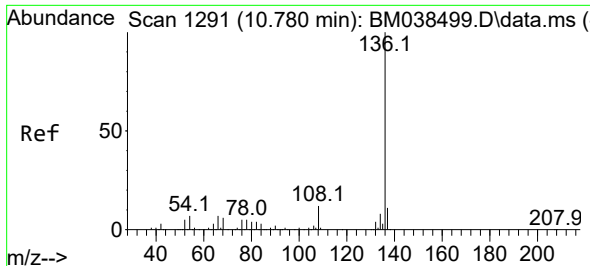
Tgt Ion:	70	Resp:	14290
Ion	Ratio	Lower	Upper
70	100		
42	58.4	41.4	62.2
101	9.3	6.5	9.7
130	16.7	14.3	21.5



#20
3+4-Methylphenols
Concen: 7.009 ng
RT: 8.739 min Scan# 944
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:	107	Resp:	20323
Ion	Ratio	Lower	Upper
107	100		
108	85.6	70.7	110.7
77	39.1	22.0	62.0
79	34.3	15.8	55.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.775 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

Tgt Ion:136 Resp: 173975

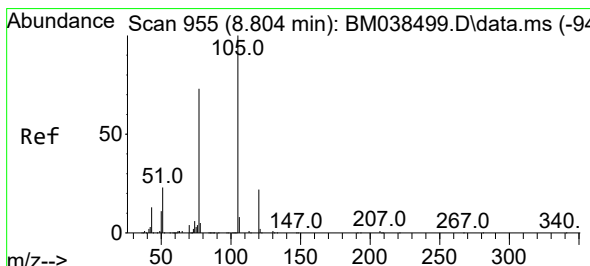
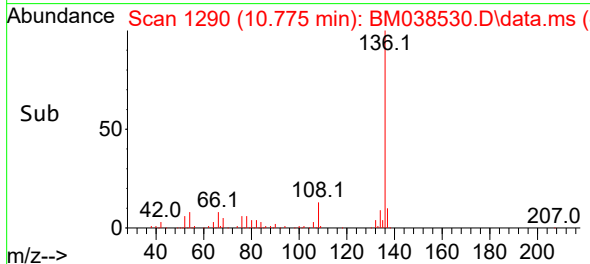
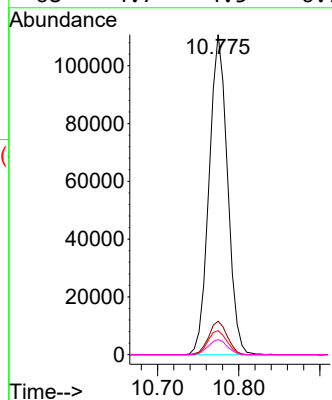
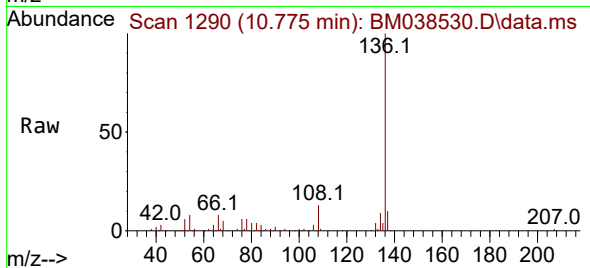
Ion Ratio Lower Upper

136 100

137 10.5 8.4 12.6

54 7.5 6.0 9.0

68 4.7 4.5 6.7



#22

Acetophenone

Concen: 6.079 ng

RT: 8.798 min Scan# 954

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Tgt Ion:105 Resp: 29137

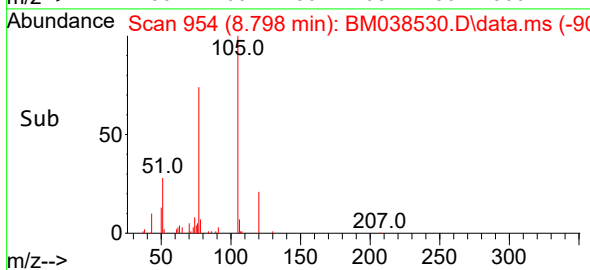
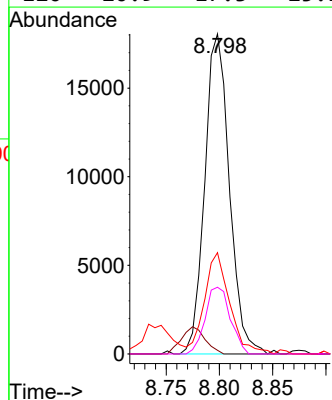
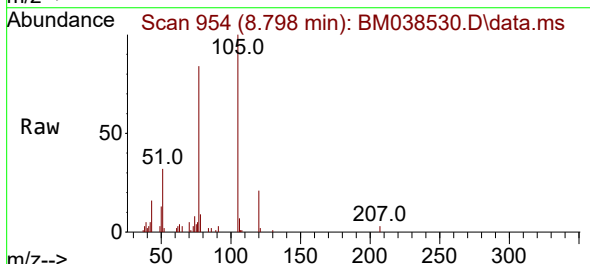
Ion Ratio Lower Upper

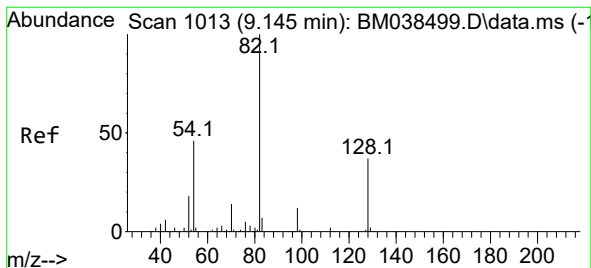
105 100

71 1.2 0.9 1.3

51 31.6 21.8 32.8

120 20.9 17.3 25.9





#23

Nitrobenzene-d5

Concen: 58.850 ng

RT: 9.139 min Scan# 1012

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

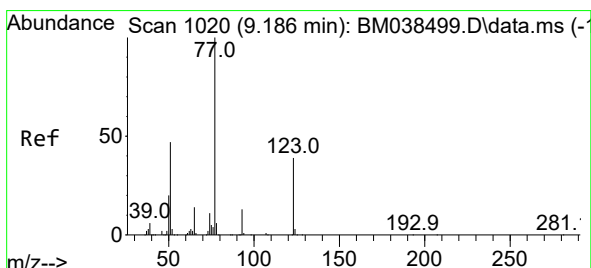
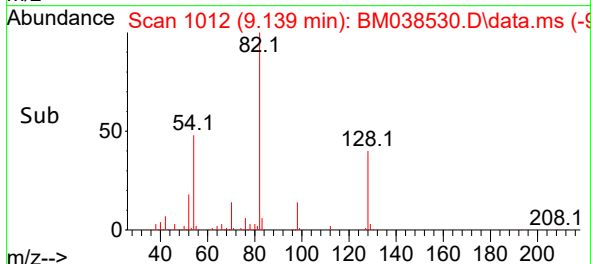
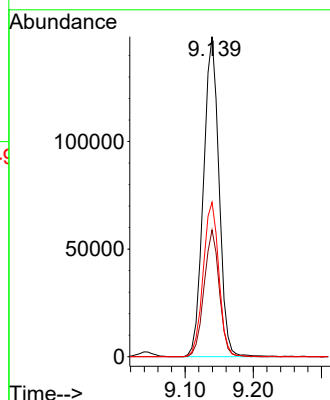
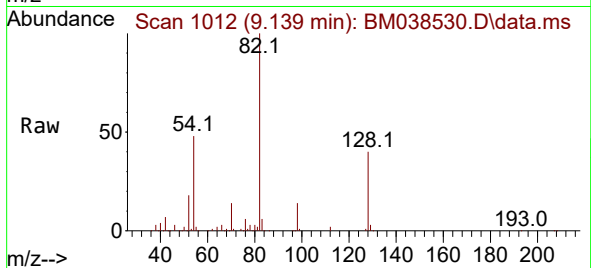
Tgt Ion: 82 Resp: 235774

Ion Ratio Lower Upper

82 100

128 39.6 29.3 43.9

54 48.3 36.9 55.3



#24

Nitrobenzene

Concen: 6.151 ng

RT: 9.181 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

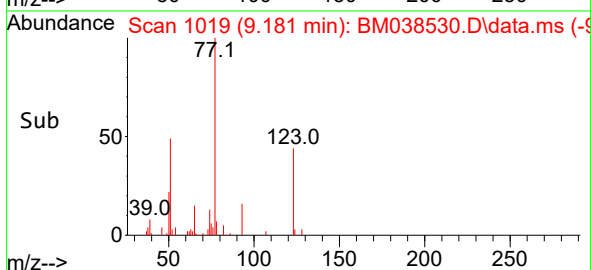
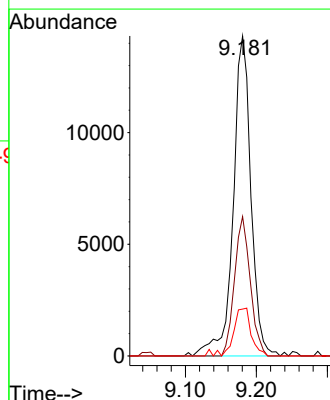
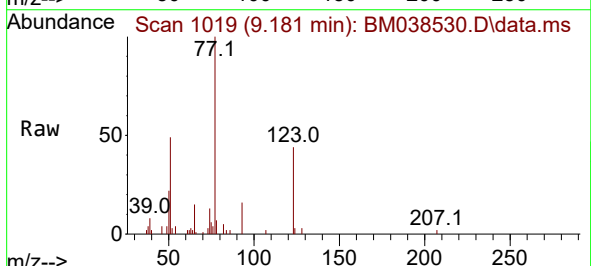
Tgt Ion: 77 Resp: 24935

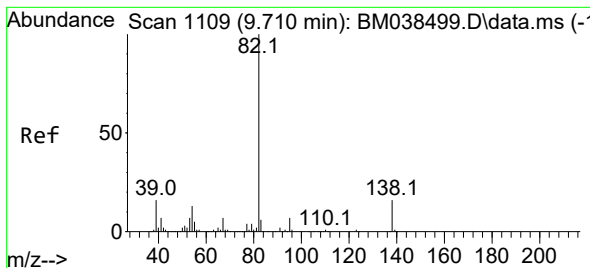
Ion Ratio Lower Upper

77 100

123 43.6 31.5 47.3

65 14.7 11.2 16.8





#25

Isophorone

Concen: 5.859 ng

RT: 9.704 min Scan# 1108

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

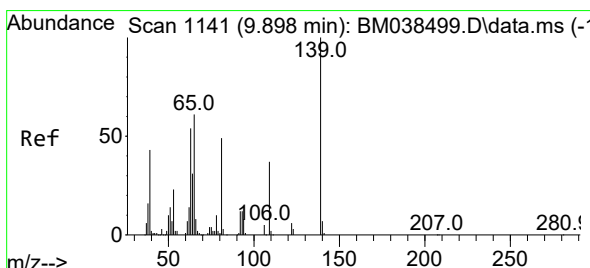
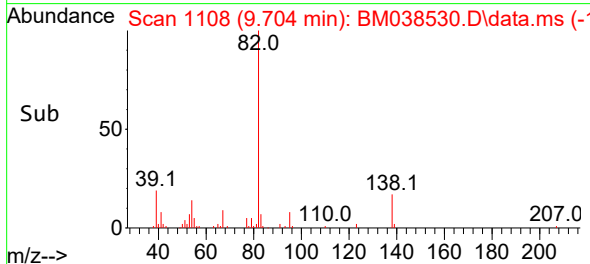
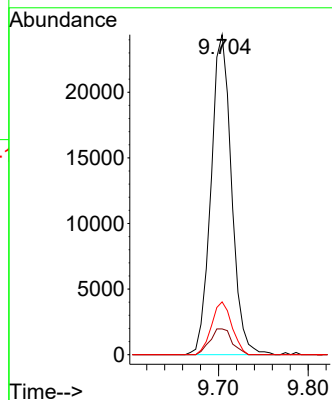
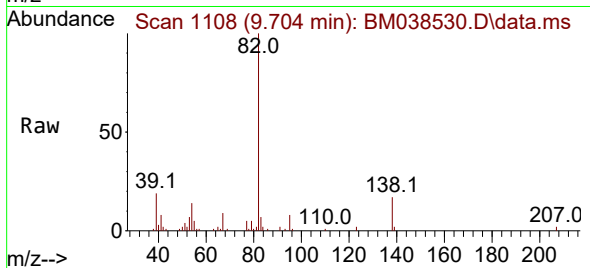
Tgt Ion: 82 Resp: 38739

Ion Ratio Lower Upper

82 100

95 8.1 5.6 8.4

138 16.5 13.2 19.8



#26

2-Nitrophenol

Concen: 6.480 ng

RT: 9.892 min Scan# 1140

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

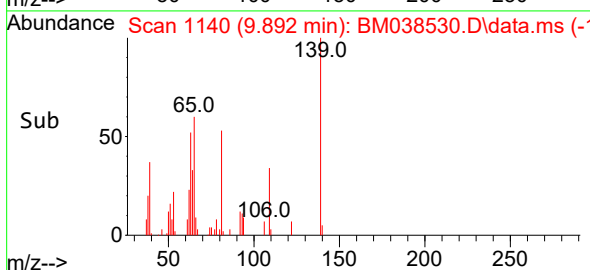
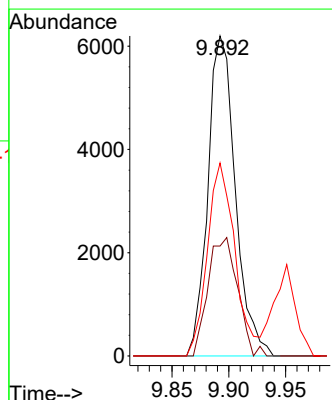
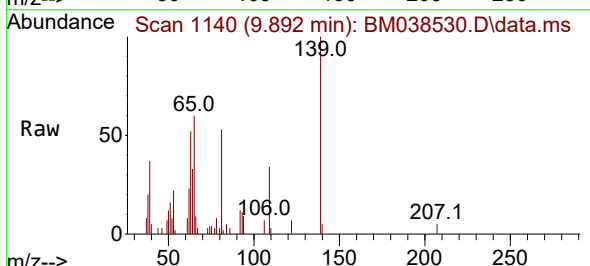
Tgt Ion: 139 Resp: 10427

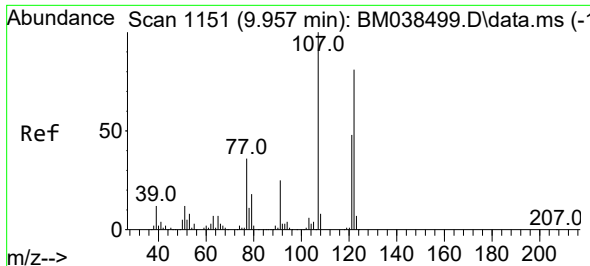
Ion Ratio Lower Upper

139 100

109 34.3 29.3 43.9

65 60.3 48.6 72.8

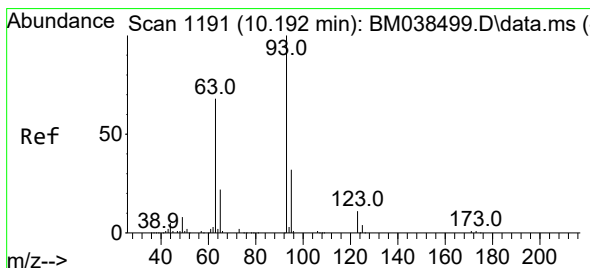
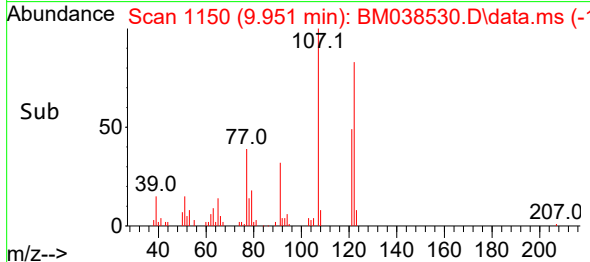
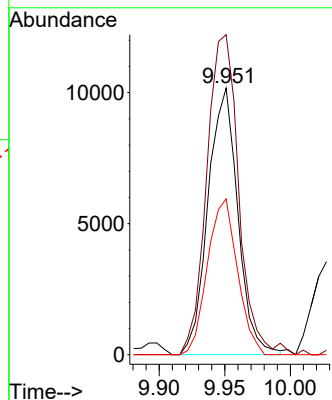
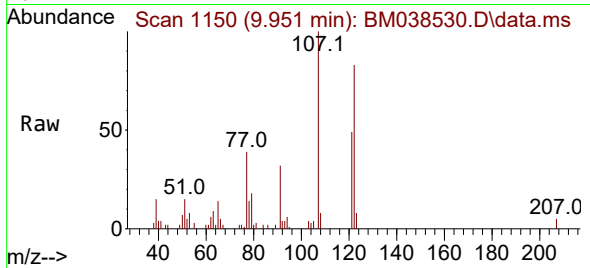




#27
2,4-Dimethylphenol
Concen: 6.017 ng
RT: 9.951 min Scan# 1151
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

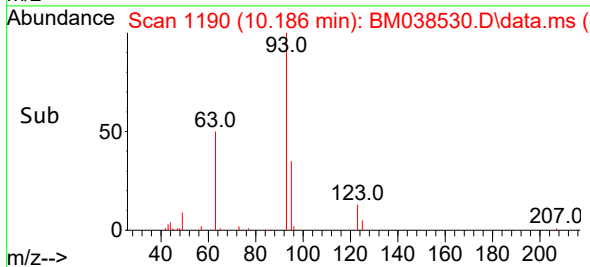
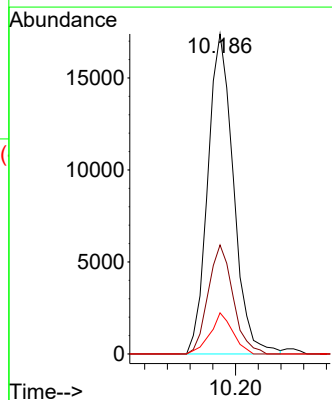
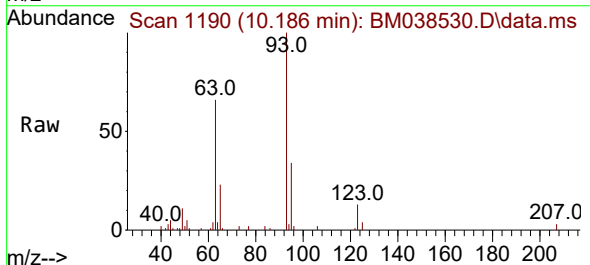
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

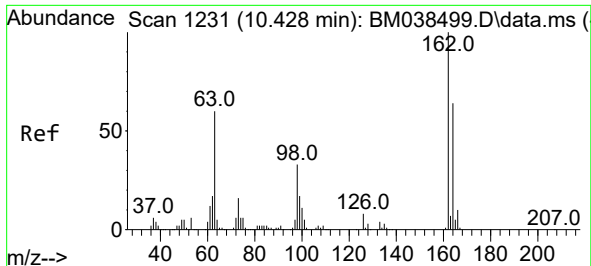
Tgt Ion:122 Resp: 16112
Ion Ratio Lower Upper
122 100
107 120.0 98.2 147.2
121 58.4 47.1 70.7



#28
bis(2-Chloroethoxy)methane
Concen: 7.052 ng
RT: 10.186 min Scan# 1190
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion: 93 Resp: 27274
Ion Ratio Lower Upper
93 100
95 34.1 25.3 37.9
123 12.9 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 7.750 ng

RT: 10.427 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

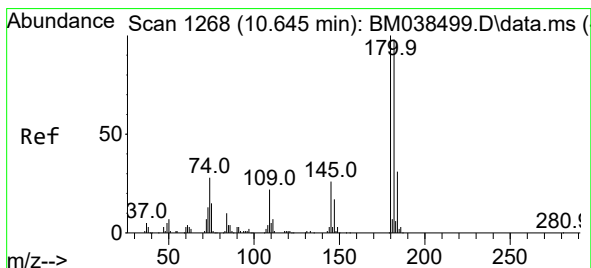
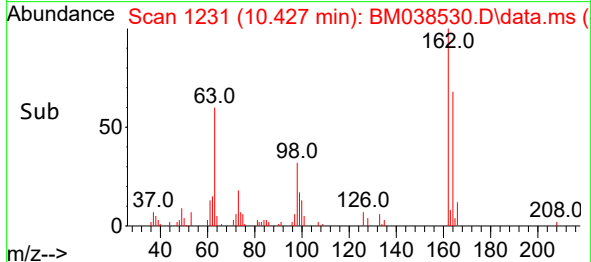
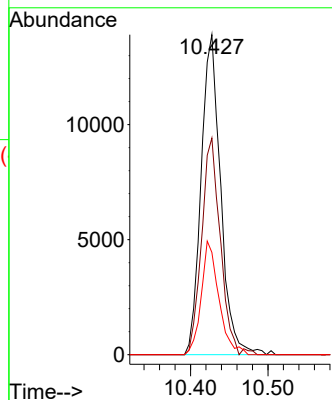
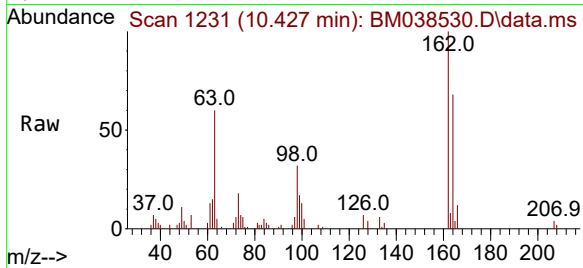
Tgt Ion:162 Resp: 24349

Ion Ratio Lower Upper

162 100

164 67.7 43.7 83.7

98 31.9 12.9 52.9



#30

1,2,4-Trichlorobenzene

Concen: 8.432 ng

RT: 10.639 min Scan# 1267

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

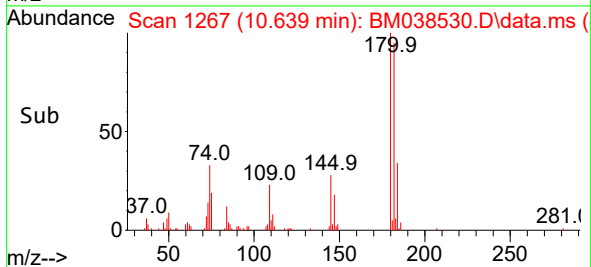
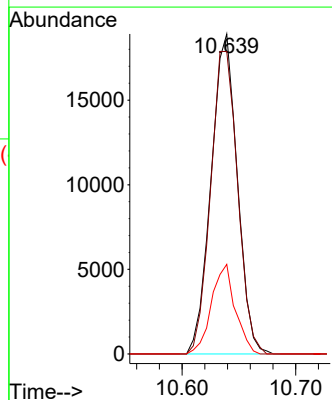
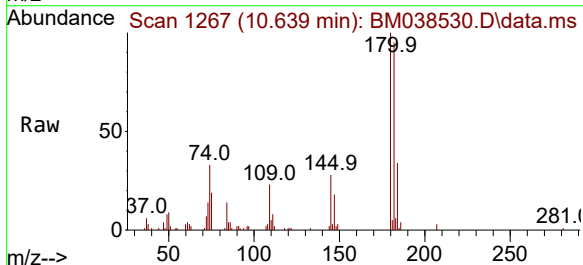
Tgt Ion:180 Resp: 30296

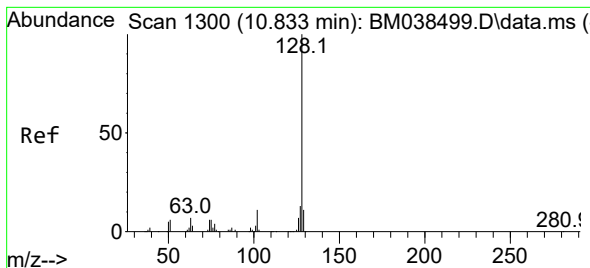
Ion Ratio Lower Upper

180 100

182 94.5 78.3 117.5

145 28.0 21.0 31.6





#31

Naphthalene

Concen: 7.763 ng

RT: 10.827 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

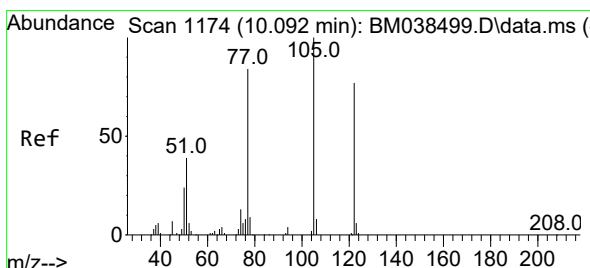
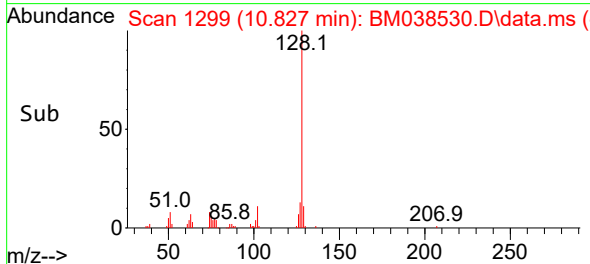
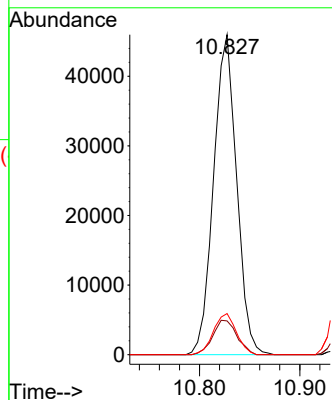
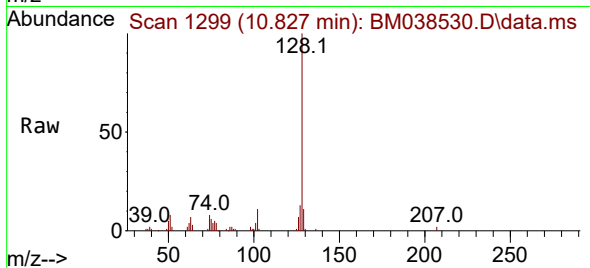
Tgt Ion:128 Resp: 73373

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

127 12.9 10.3 15.5



#32

Benzoic acid

Concen: 8.314 ng

RT: 10.028 min Scan# 1163

Delta R.T. -0.065 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

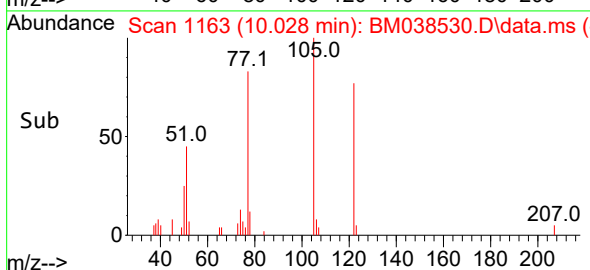
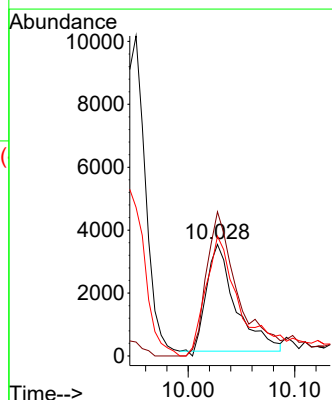
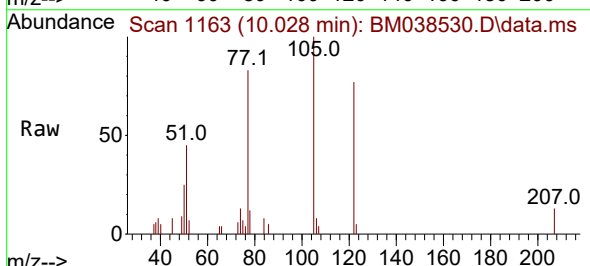
Tgt Ion:122 Resp: 6466

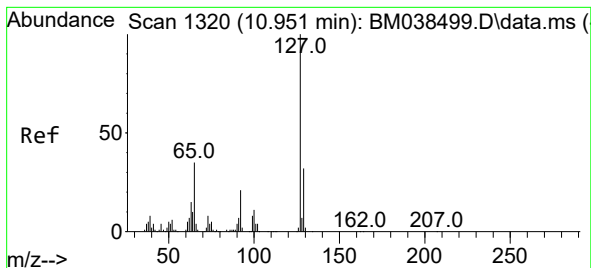
Ion Ratio Lower Upper

122 100

105 129.2 107.9 147.9

77 107.2 88.6 128.6





#33

4-Chloroaniline

Concen: 7.205 ng

RT: 10.945 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

Tgt Ion:127 Resp: 28421

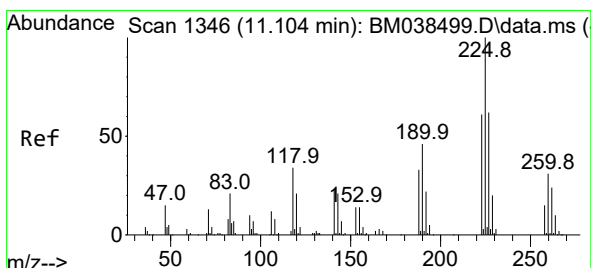
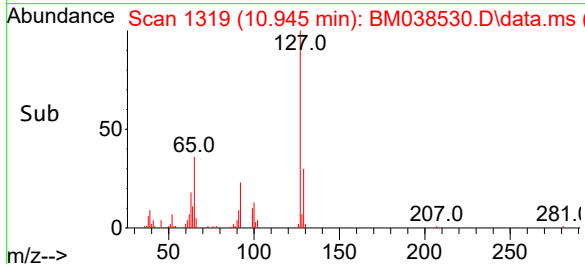
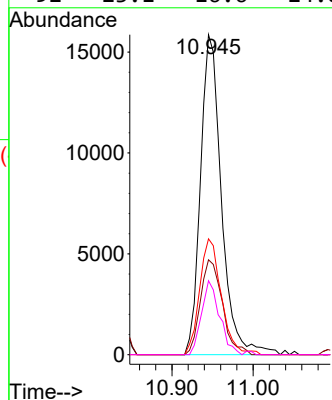
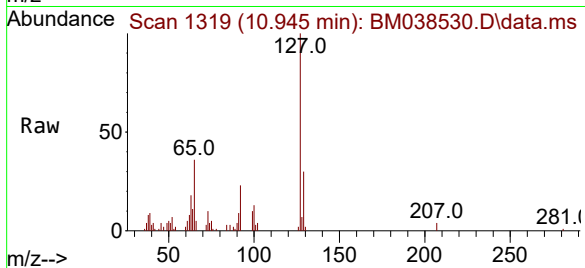
Ion Ratio Lower Upper

127 100

129 29.6 25.8 38.6

65 36.2 28.2 42.2

92 23.1 16.6 24.8



#34

Hexachlorobutadiene

Concen: 8.981 ng

RT: 11.098 min Scan# 1345

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

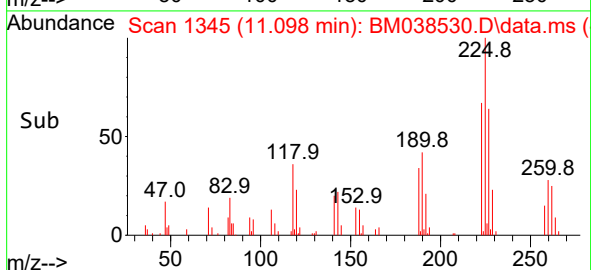
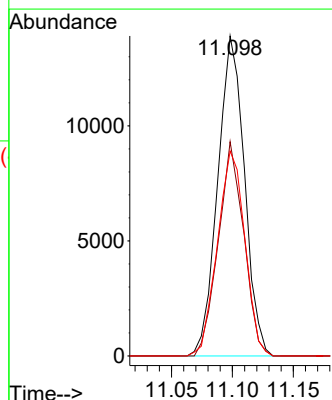
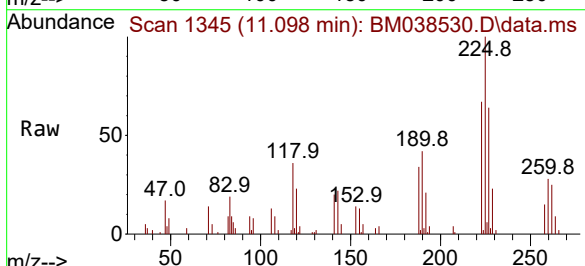
Tgt Ion:225 Resp: 21225

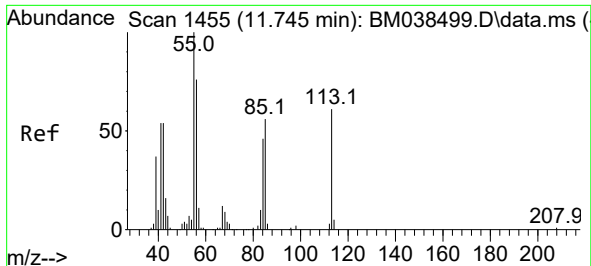
Ion Ratio Lower Upper

225 100

223 66.9 48.8 73.2

227 64.1 49.4 74.0

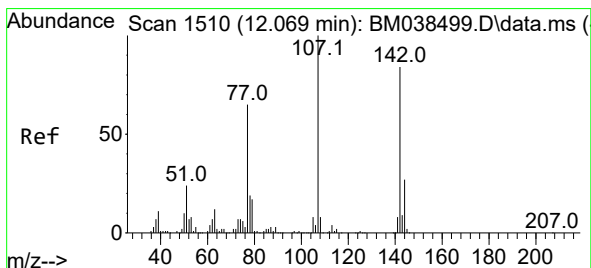
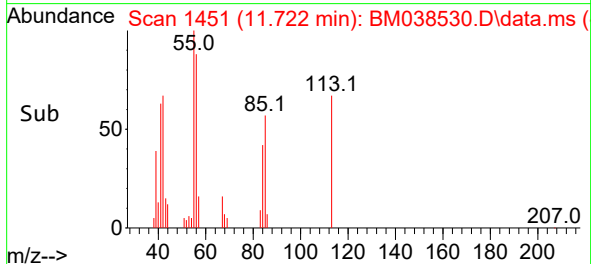
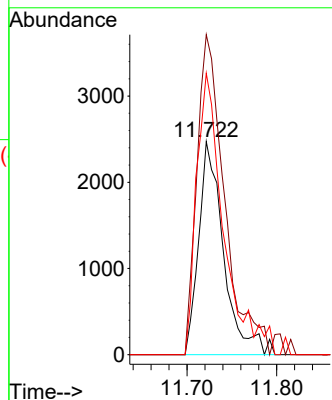
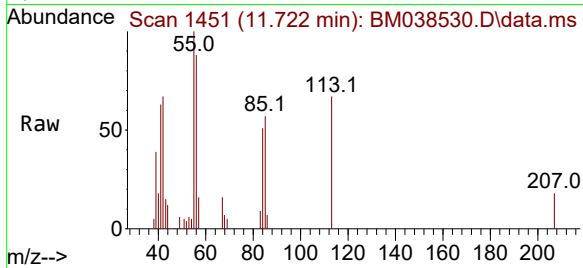




#35
Caprolactam
Concen: 6.263 ng
RT: 11.722 min Scan# 1451
Delta R.T. -0.024 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

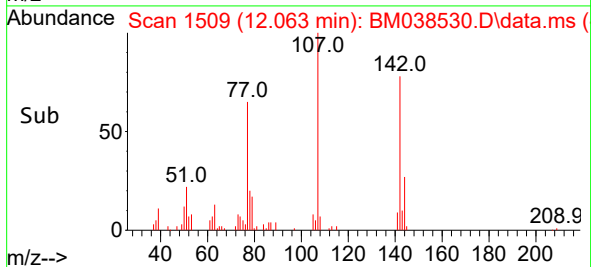
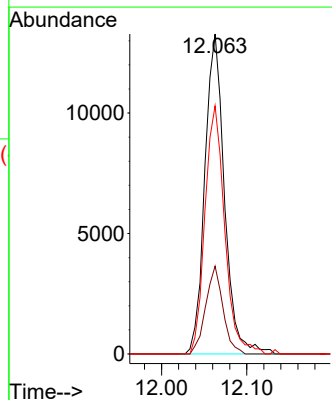
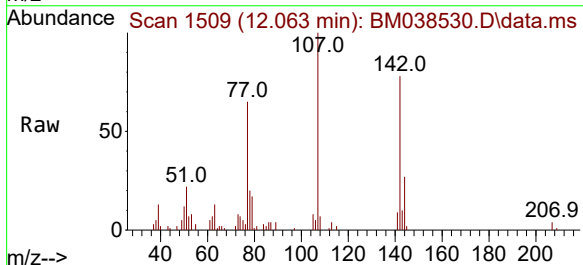
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

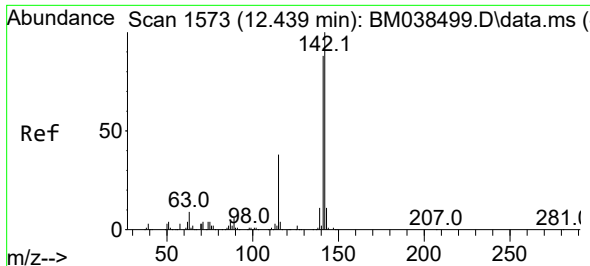
Tgt Ion:113 Resp: 4770
Ion Ratio Lower Upper
113 100
55 150.1 145.0 185.0
56 132.0 105.7 145.7



#36
4-Chloro-3-methylphenol
Concen: 7.443 ng
RT: 12.063 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:107 Resp: 21263
Ion Ratio Lower Upper
107 100
144 27.4 22.0 33.0
142 77.6 67.5 101.3

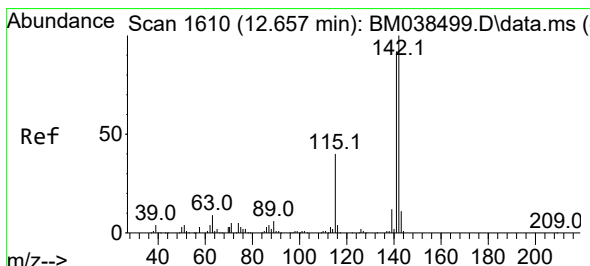
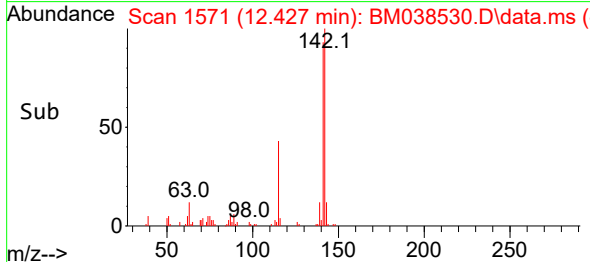
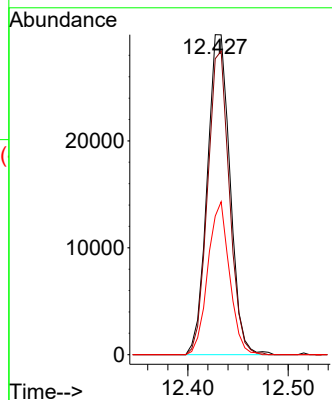
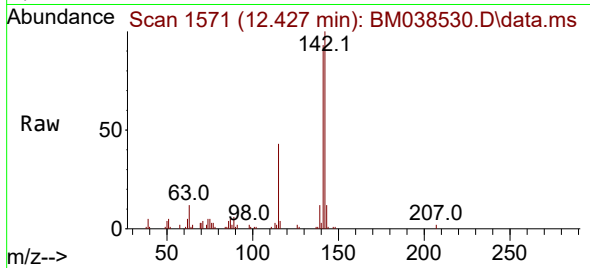




#37
2-Methylnaphthalene
Concen: 6.982 ng
RT: 12.427 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

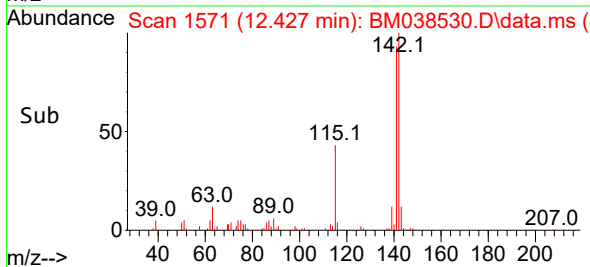
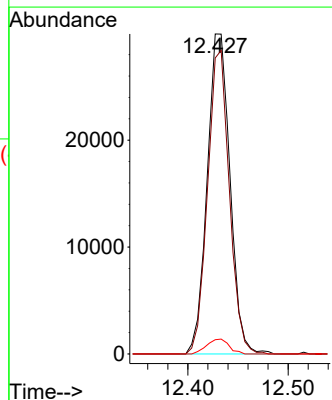
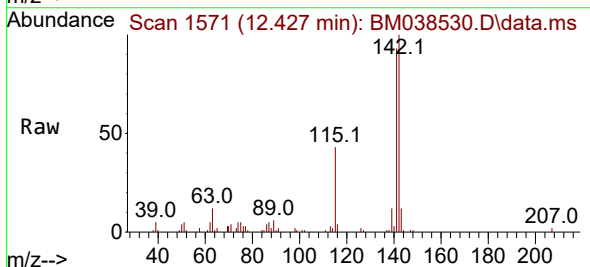
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

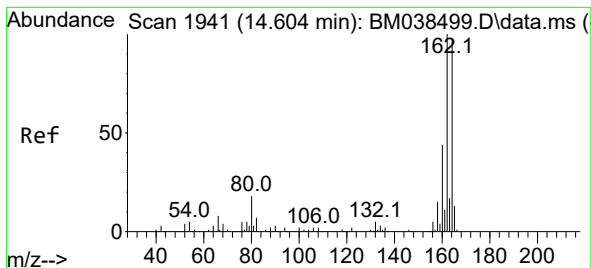
Tgt Ion:142 Resp: 47424
Ion Ratio Lower Upper
142 100
141 92.5 70.7 106.1
115 43.3 30.4 45.6



#38
1-Methylnaphthalene
Concen: 7.403 ng
RT: 12.427 min Scan# 1571
Delta R.T. -0.229 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:142 Resp: 47424
Ion Ratio Lower Upper
142 100
141 92.5 73.4 110.0
116 4.5 3.3 4.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.598 min Scan# 1940

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

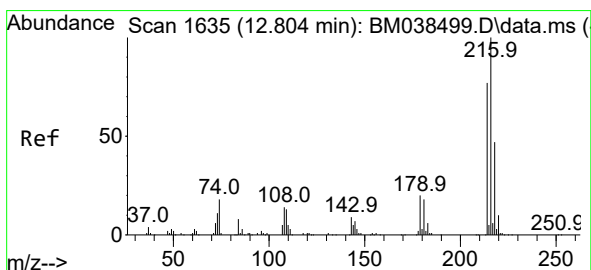
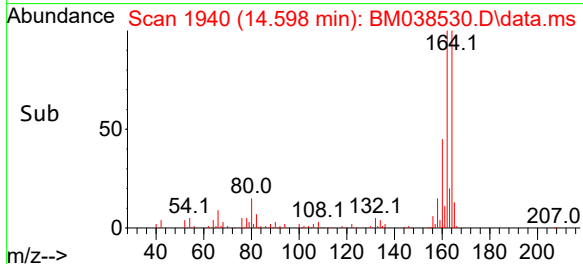
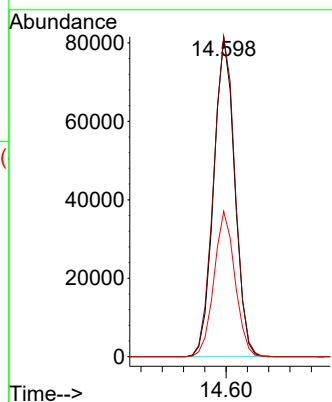
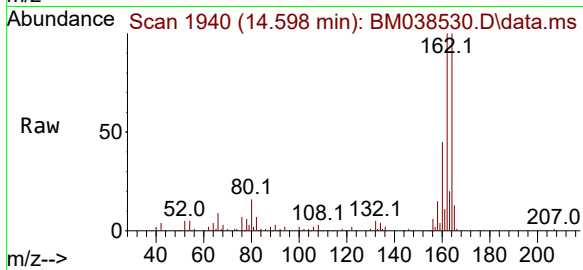
Tgt Ion:164 Resp: 111128

Ion Ratio Lower Upper

164 100

162 100.4 82.0 123.0

160 45.5 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 8.344 ng

RT: 12.792 min Scan# 1633

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Tgt Ion:216 Resp: 34879

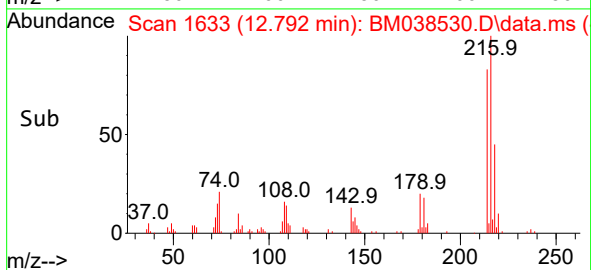
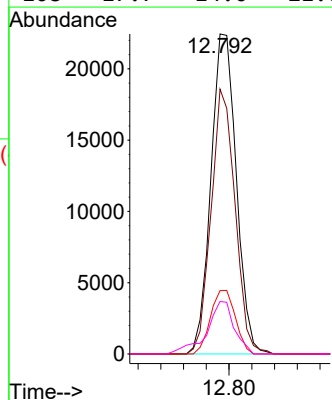
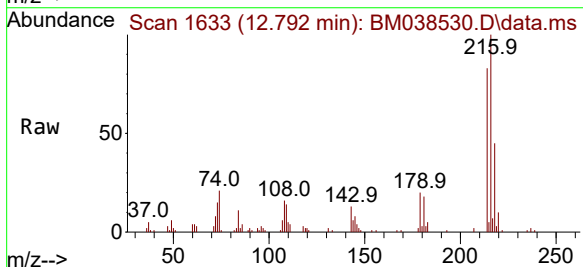
Ion Ratio Lower Upper

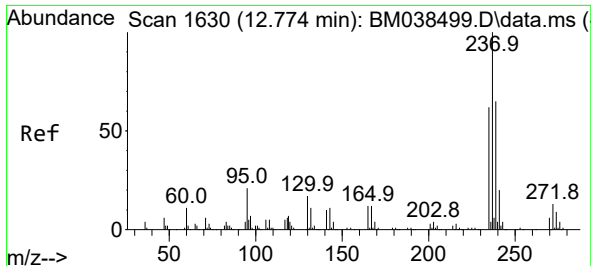
216 100

214 78.0 61.4 92.0

179 19.4 15.7 23.5

108 17.7 14.0 21.0

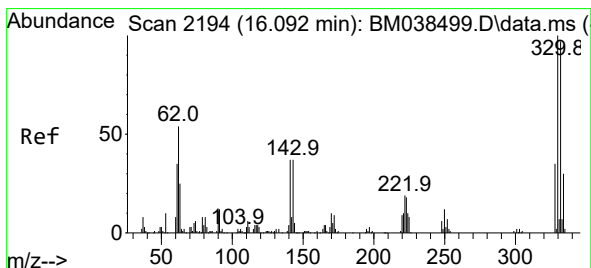
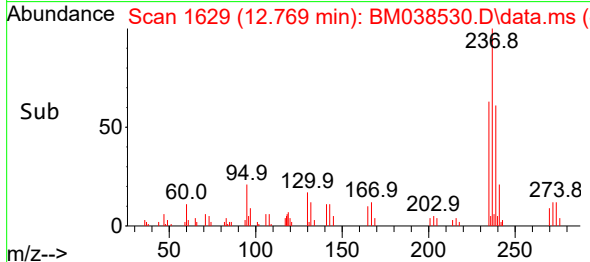
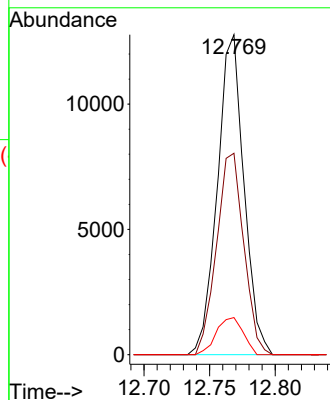
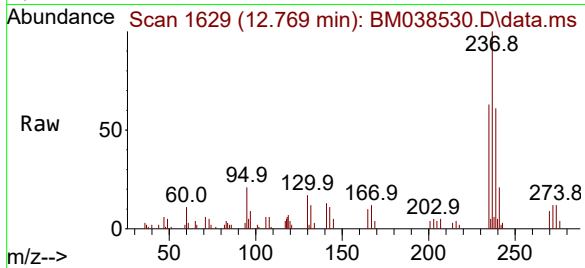




#41
Hexachlorocyclopentadiene
Concen: 7.819 ng
RT: 12.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

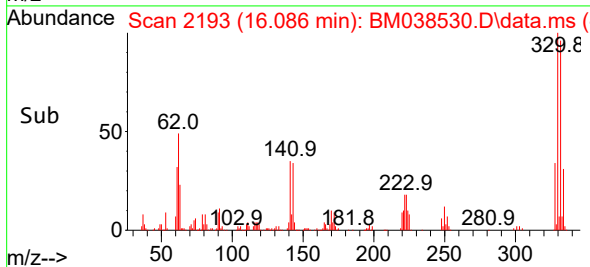
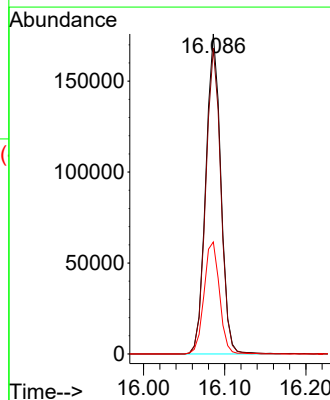
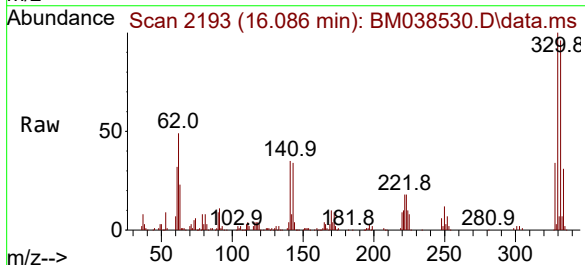
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

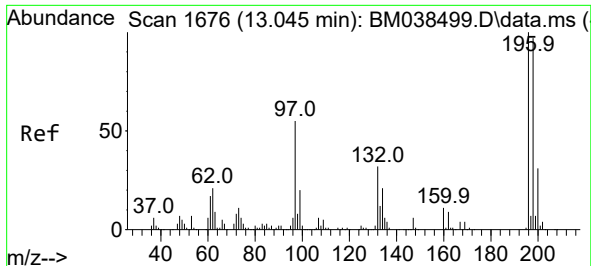
Tgt Ion:237 Resp: 17964
Ion Ratio Lower Upper
237 100
235 62.9 42.3 82.3
272 11.6 0.0 32.9



#42
2,4,6-Tribromophenol
Concen: 140.976 ng
RT: 16.086 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:330 Resp: 225601
Ion Ratio Lower Upper
330 100
332 95.9 77.5 116.3
141 35.9 29.0 43.4





#43

2,4,6-Trichlorophenol

Concen: 7.529 ng

RT: 13.039 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

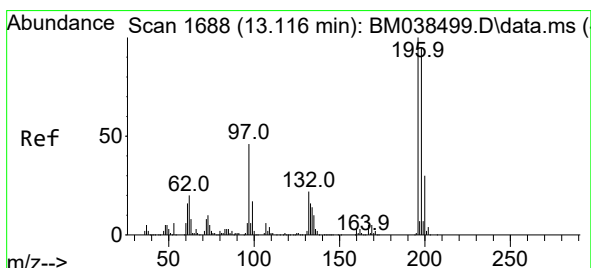
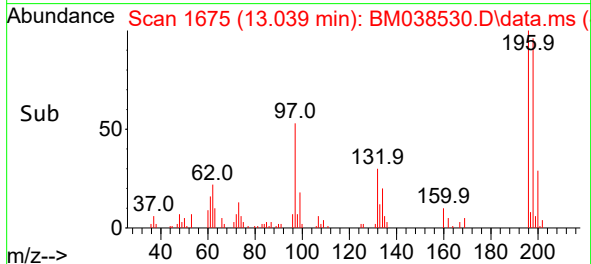
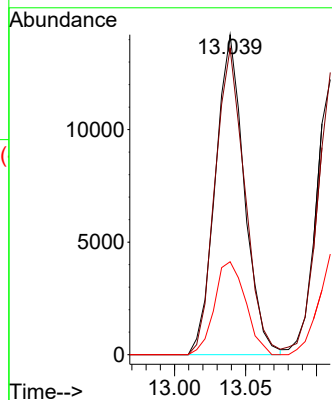
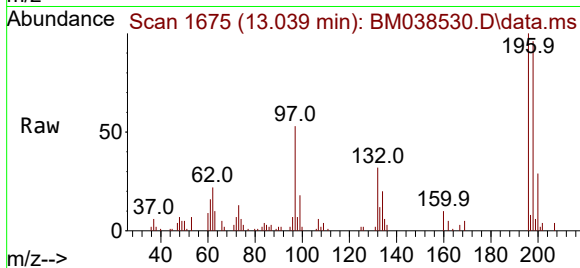
Tgt Ion:196 Resp: 20147

Ion Ratio Lower Upper

196 100

198 95.8 77.9 116.9

200 29.1 24.5 36.7



#44

2,4,5-Trichlorophenol

Concen: 6.890 ng

RT: 13.116 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Tgt Ion:196 Resp: 21595

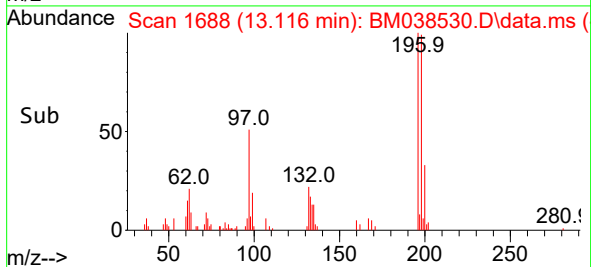
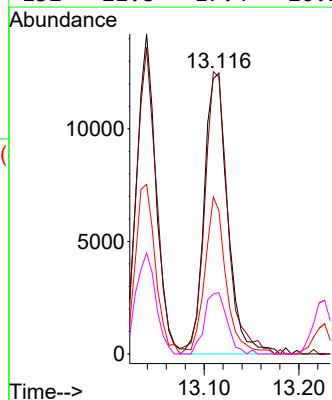
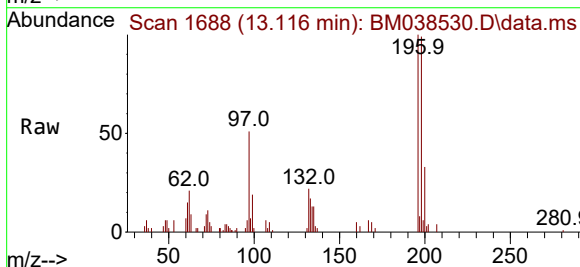
Ion Ratio Lower Upper

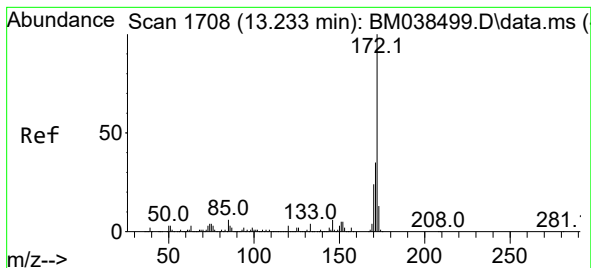
196 100

198 98.6 76.0 114.0

97 51.0 36.9 55.3

132 21.8 17.4 26.2





#45

2-Fluorobiphenyl

Concen: 79.237 ng

RT: 13.227 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

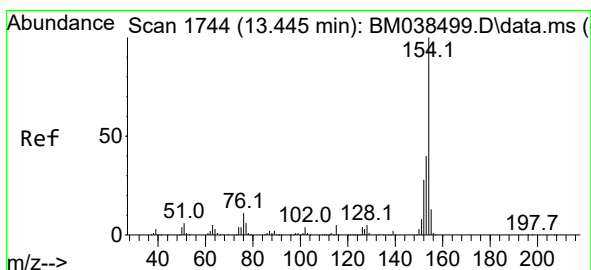
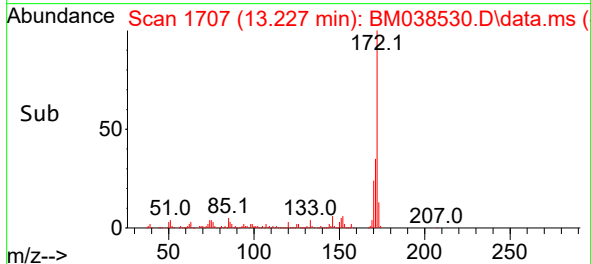
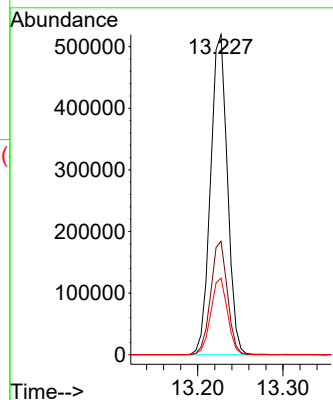
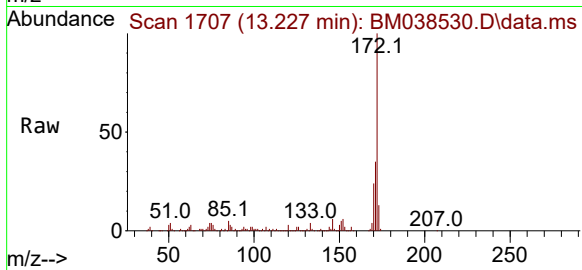
Tgt Ion:172 Resp: 714833

Ion Ratio Lower Upper

172 100

171 35.4 28.0 42.0

170 24.0 19.5 29.3



#46

1,1'-Biphenyl

Concen: 7.918 ng

RT: 13.433 min Scan# 1742

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

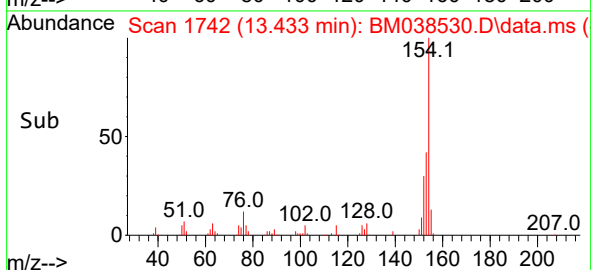
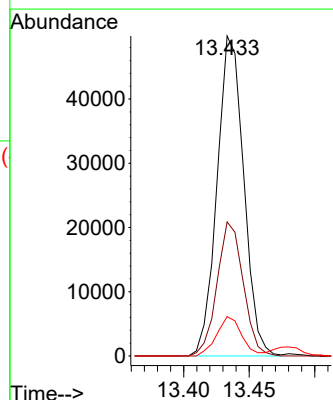
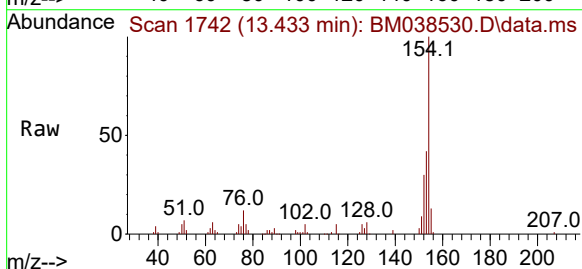
Tgt Ion:154 Resp: 70466

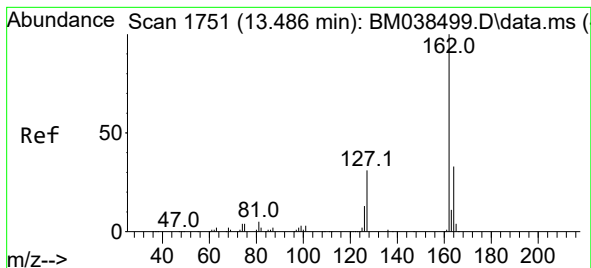
Ion Ratio Lower Upper

154 100

153 41.9 20.1 60.1

76 12.3 0.0 31.3





#47

2-Chloronaphthalene

Concen: 7.911 ng

RT: 13.480 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

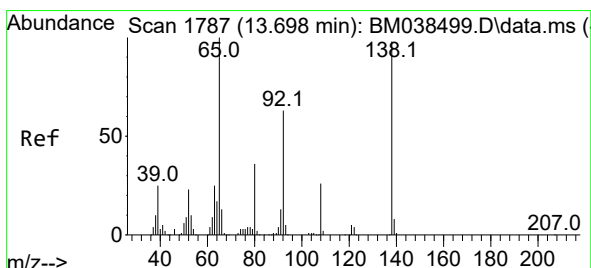
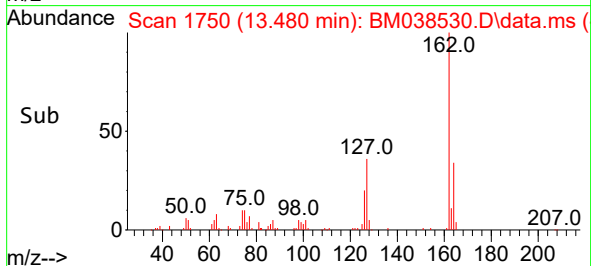
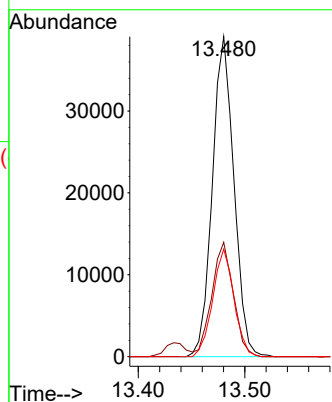
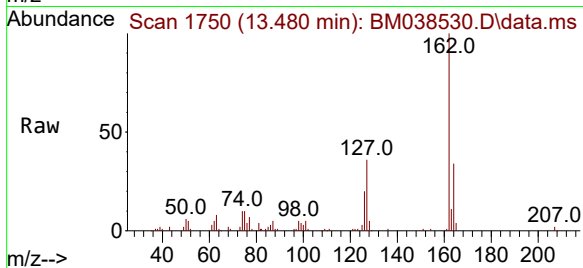
Tgt Ion:162 Resp: 54962

Ion Ratio Lower Upper

162 100

127 35.7 27.4 41.2

164 33.6 26.7 40.1



#48

2-Nitroaniline

Concen: 6.591 ng

RT: 13.692 min Scan# 1786

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

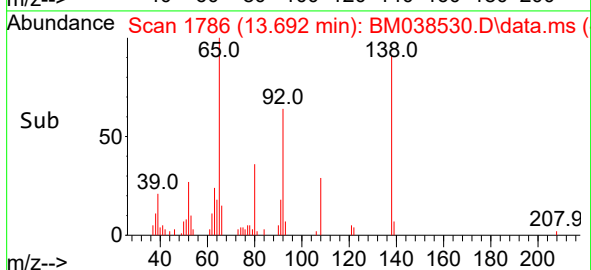
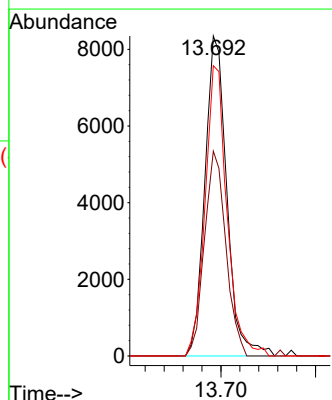
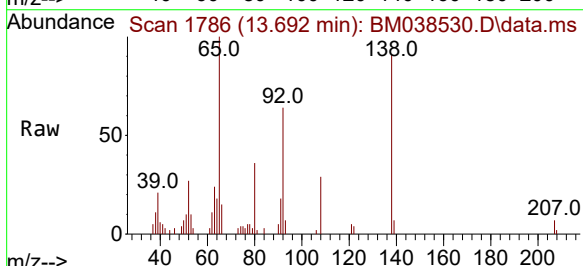
Tgt Ion: 65 Resp: 13448

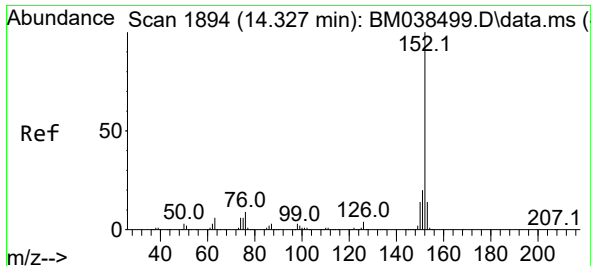
Ion Ratio Lower Upper

65 100

92 64.0 50.0 75.0

138 90.7 78.2 117.2

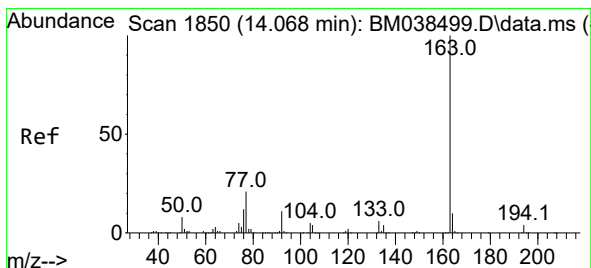
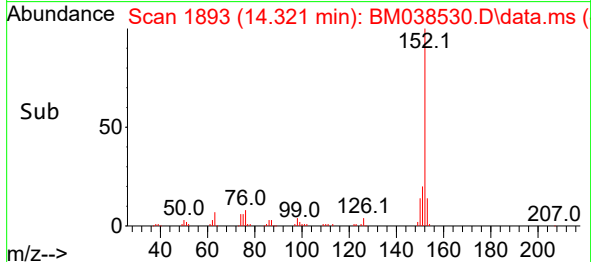
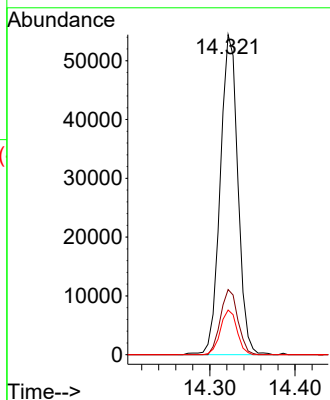
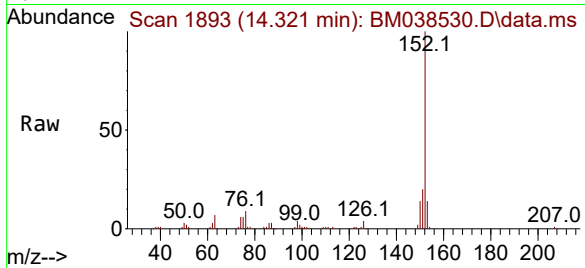




#49
Acenaphthylene
Concen: 7.205 ng
RT: 14.321 min Scan# 1893
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

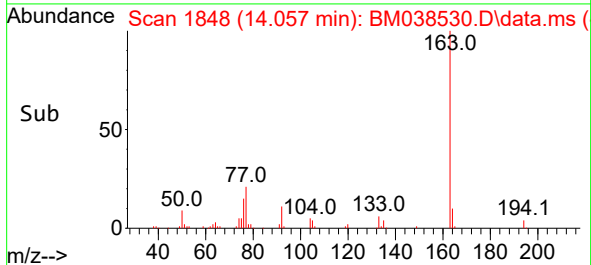
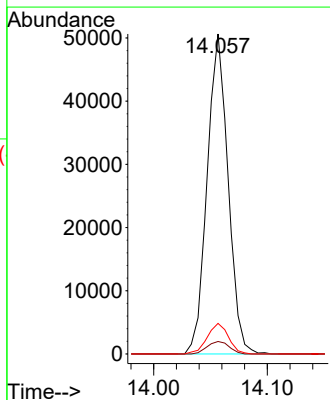
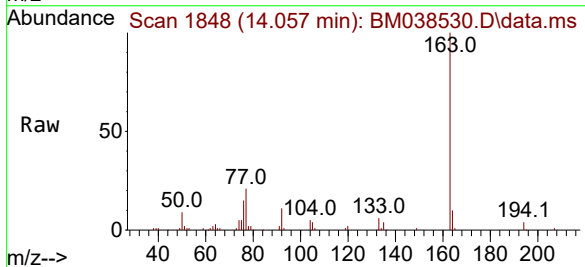
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

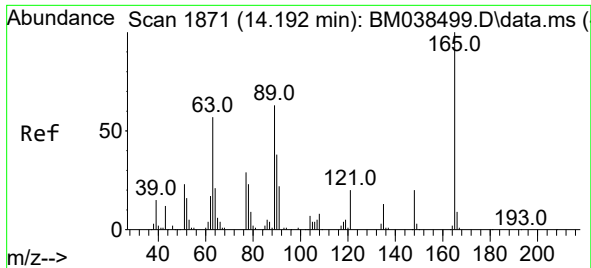
Tgt Ion:152 Resp: 78313
Ion Ratio Lower Upper
152 100
151 20.3 16.0 24.0
153 13.9 10.8 16.2



#50
Dimethylphthalate
Concen: 7.579 ng
RT: 14.057 min Scan# 1848
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:163 Resp: 64831
Ion Ratio Lower Upper
163 100
194 3.9 3.3 4.9
164 9.6 8.0 12.0

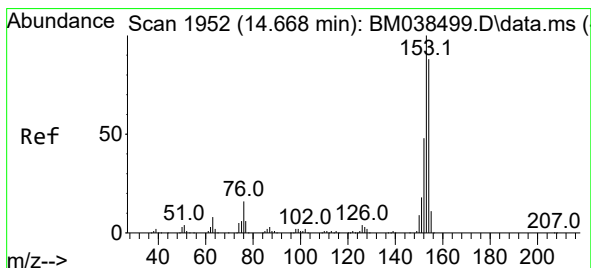
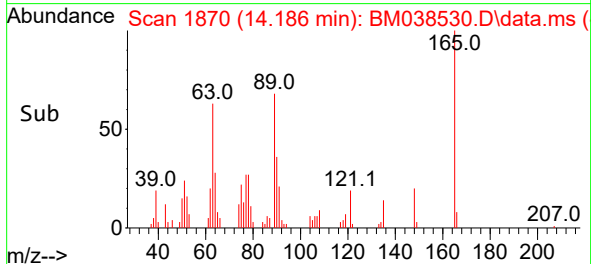
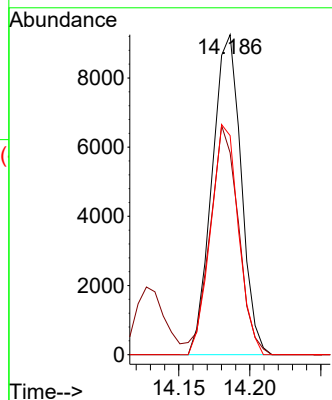
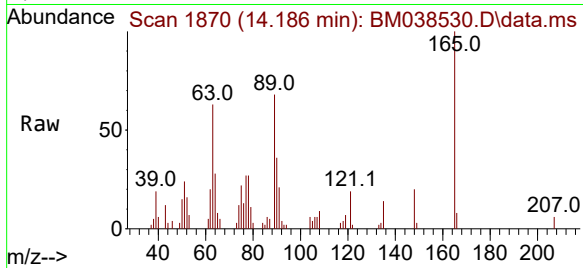




#51
2,6-Dinitrotoluene
Concen: 7.315 ng
RT: 14.186 min Scan# 1870
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

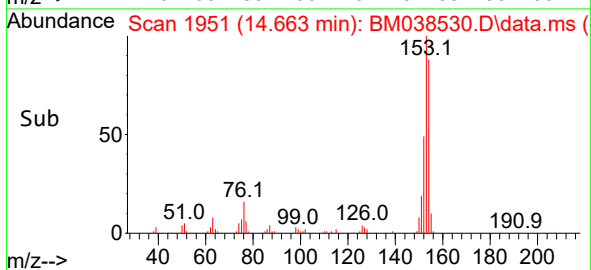
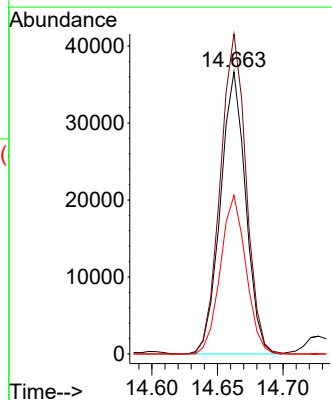
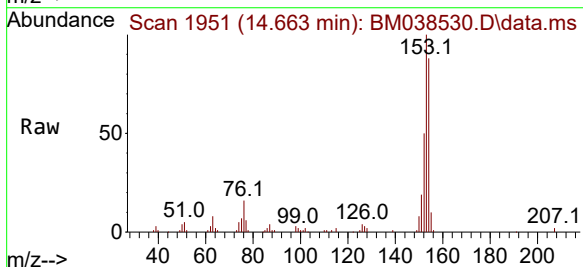
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

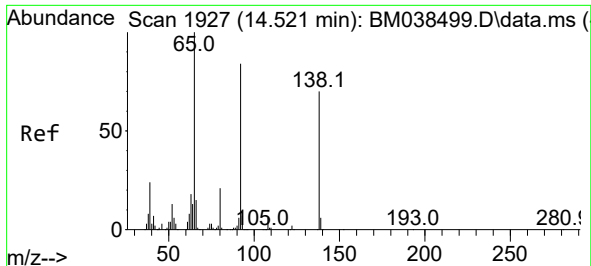
Tgt Ion:165 Resp: 13169
Ion Ratio Lower Upper
165 100
63 63.1 51.0 76.4
89 68.5 50.2 75.4



#52
Acenaphthene
Concen: 7.397 ng
RT: 14.663 min Scan# 1951
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:154 Resp: 49037
Ion Ratio Lower Upper
154 100
153 113.4 90.7 136.1
152 56.3 43.8 65.8

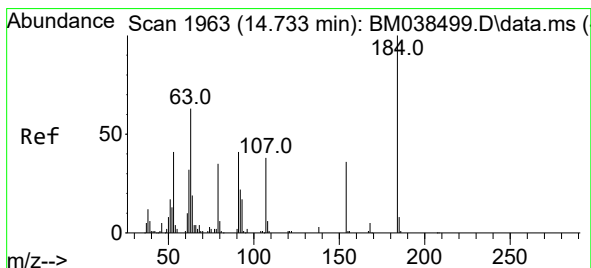
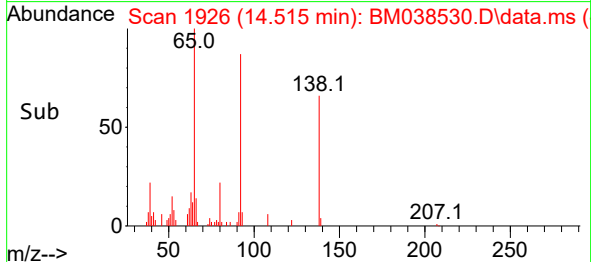
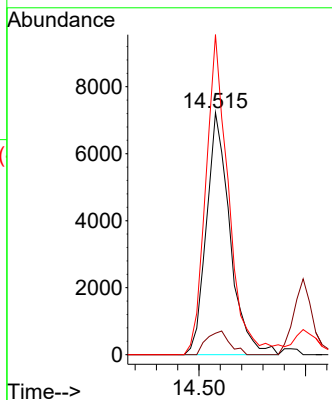
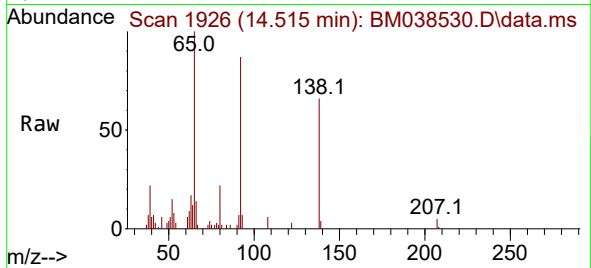




#53
3-Nitroaniline
Concen: 6.190 ng
RT: 14.515 min Scan# 1926
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

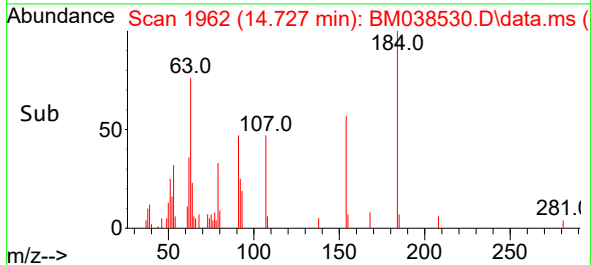
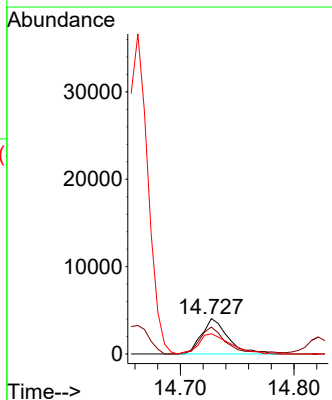
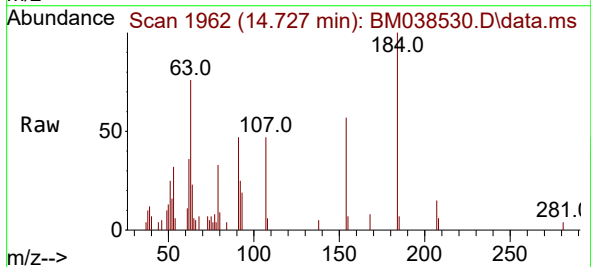
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

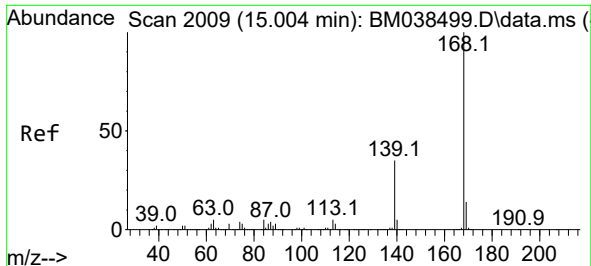
Tgt Ion:138 Resp: 11074
Ion Ratio Lower Upper
138 100
108 8.9 7.0 10.4
92 132.2 95.7 143.5



#54
2,4-Dinitrophenol
Concen: 9.180 ng
RT: 14.727 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:184 Resp: 6472
Ion Ratio Lower Upper
184 100
63 76.0 52.2 78.4
154 57.2 48.9 73.3

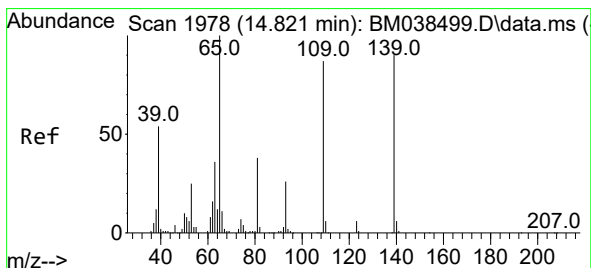
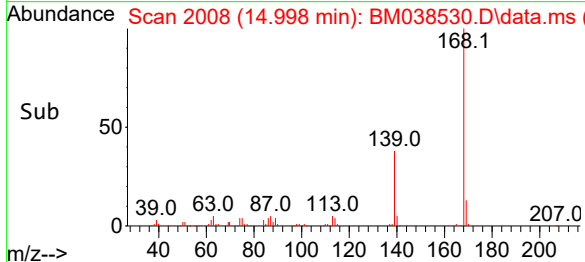
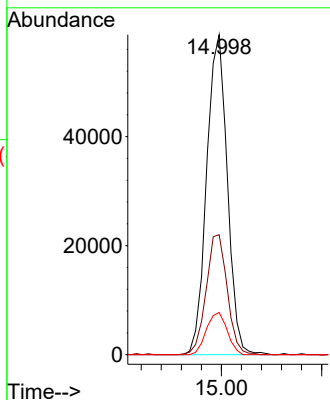
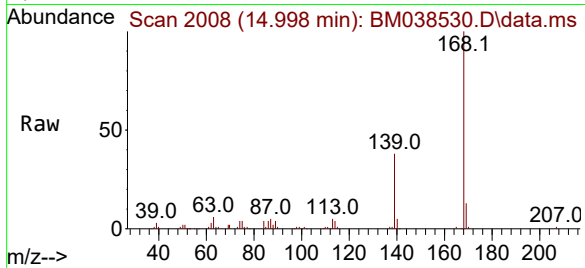




#55
Dibenzenofuran
Concen: 7.587 ng
RT: 14.998 min Scan# 20
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

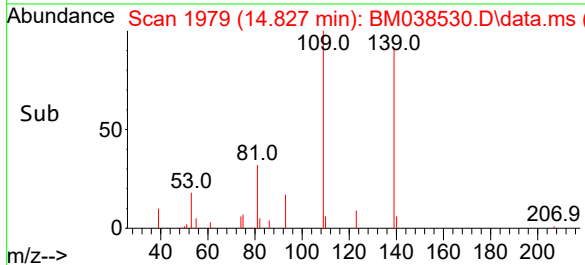
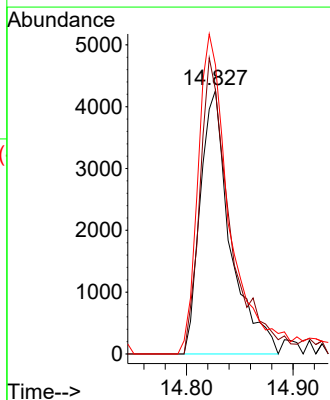
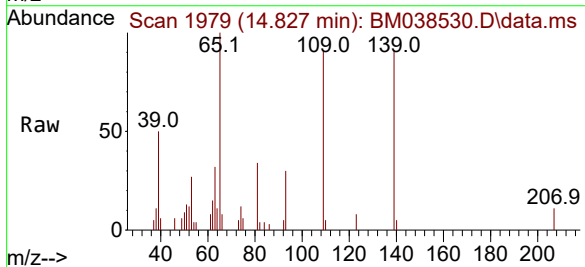
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

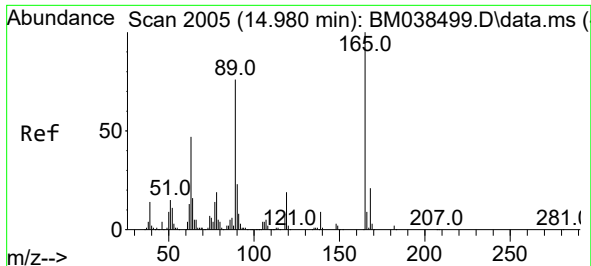
Tgt Ion:168 Resp: 84083
Ion Ratio Lower Upper
168 100
139 37.5 27.9 41.9
169 13.2 11.0 16.6



#56
4-Nitrophenol
Concen: 5.660 ng
RT: 14.827 min Scan# 1979
Delta R.T. 0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:139 Resp: 8339
Ion Ratio Lower Upper
139 100
109 100.0 76.8 116.8
65 109.6 91.7 131.7





#57

2,4-Dinitrotoluene

Concen: 6.737 ng

RT: 14.968 min Scan# 2003

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

Tgt Ion:165 Resp: 16442

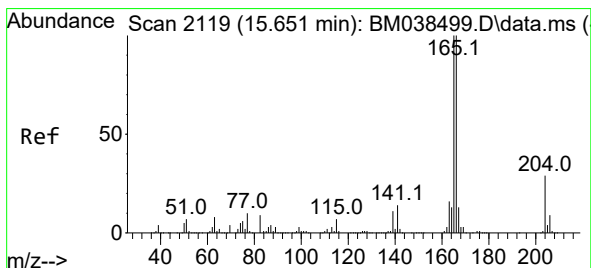
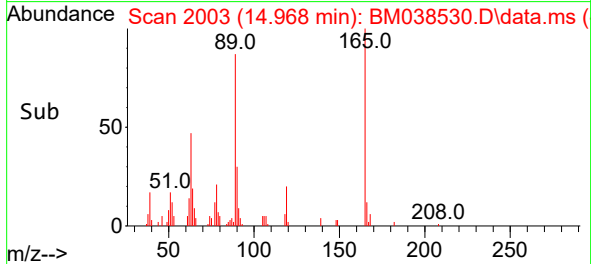
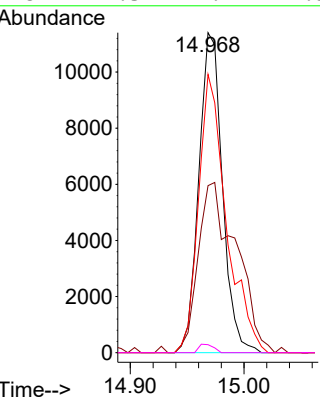
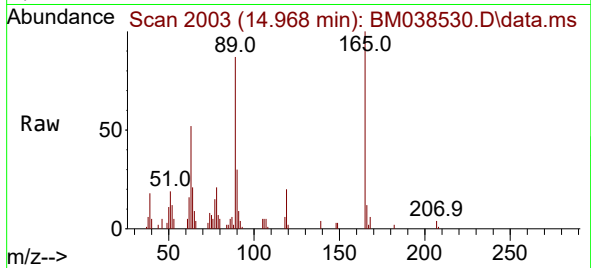
Ion Ratio Lower Upper

165 100

63 52.2 37.8 56.8

89 86.9 60.9 91.3

182 2.5 1.7 2.5



#58

Fluorene

Concen: 7.498 ng

RT: 15.645 min Scan# 2118

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

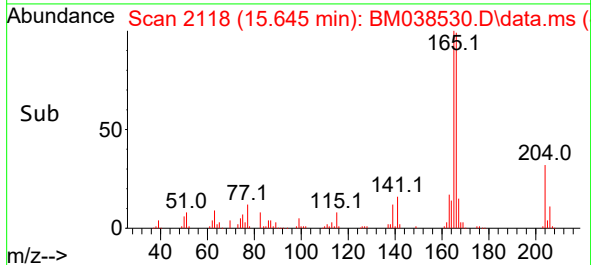
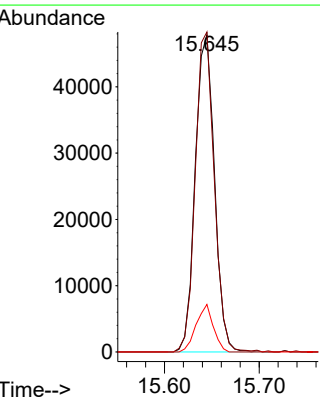
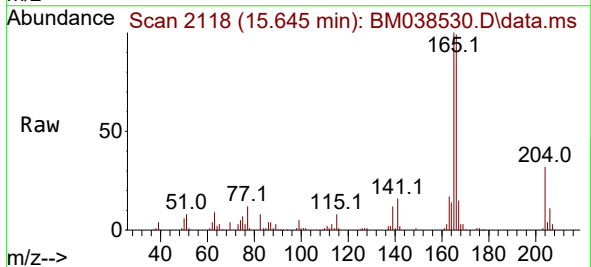
Tgt Ion:166 Resp: 67387

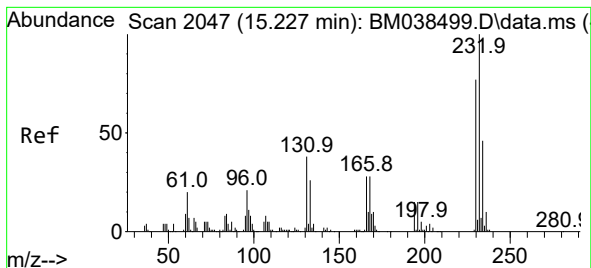
Ion Ratio Lower Upper

166 100

165 100.9 79.6 119.4

167 15.0 10.5 15.7

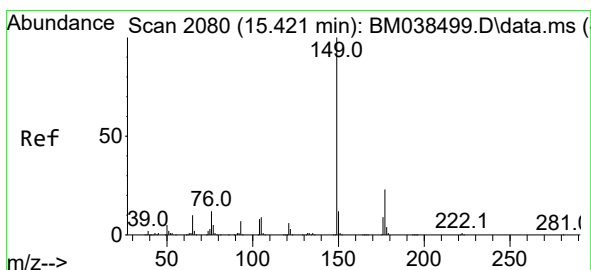
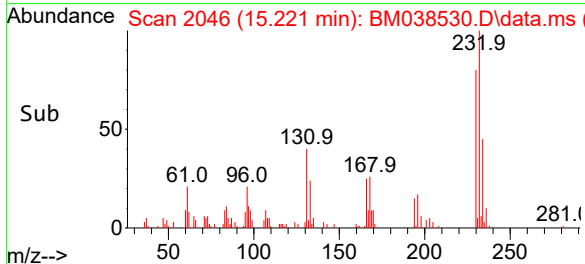
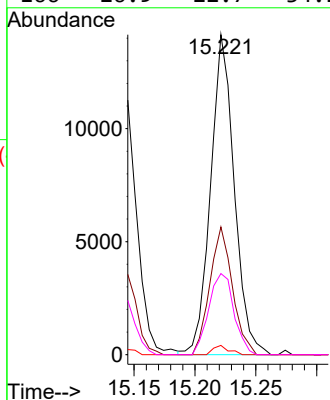
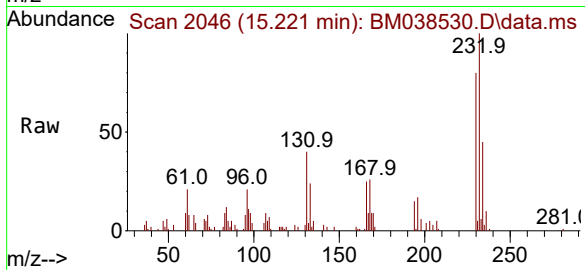




#59
2,3,4,6-Tetrachlorophenol
Concen: 7.478 ng
RT: 15.221 min Scan# 2046
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

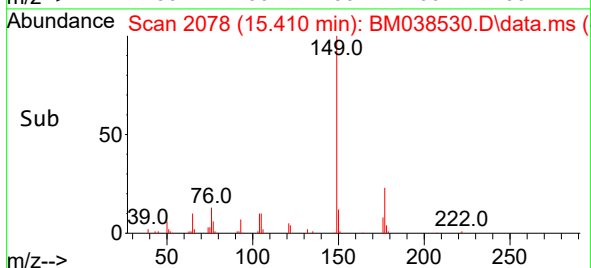
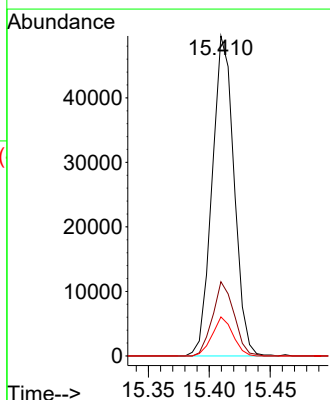
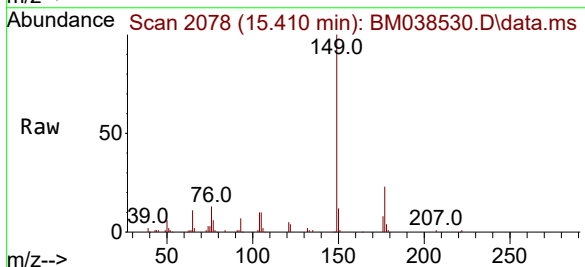
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

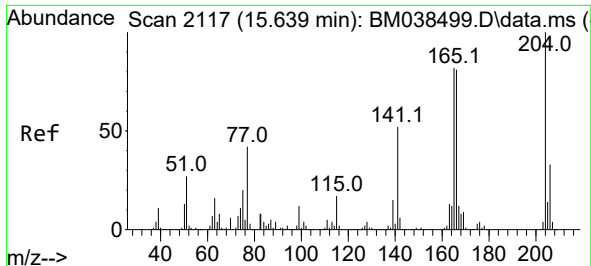
Tgt Ion:232	Resp:	19157
Ion Ratio	Lower	Upper
232	100	
131	38.1	31.0 46.4
130	1.9	1.8 2.6
166	26.9	22.7 34.1



#60
Diethylphthalate
Concen: 7.425 ng
RT: 15.410 min Scan# 2078
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:149	Resp:	62203
Ion Ratio	Lower	Upper
149	100	
177	23.2	18.6 27.8
150	12.2	9.5 14.3

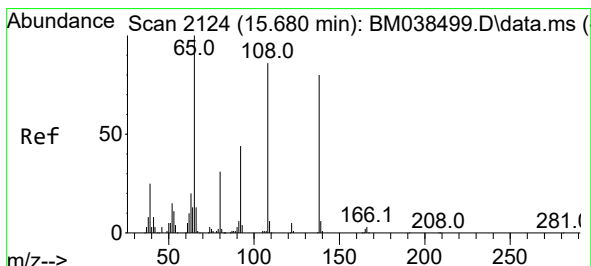
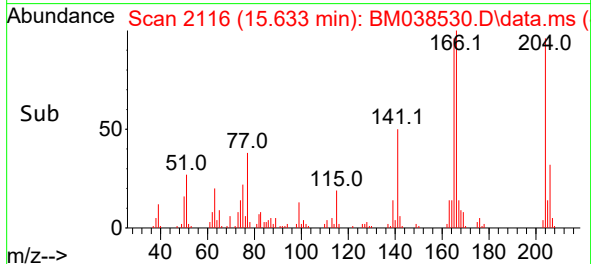
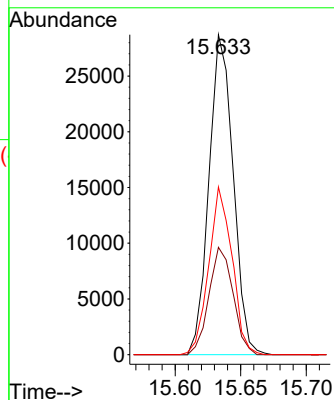
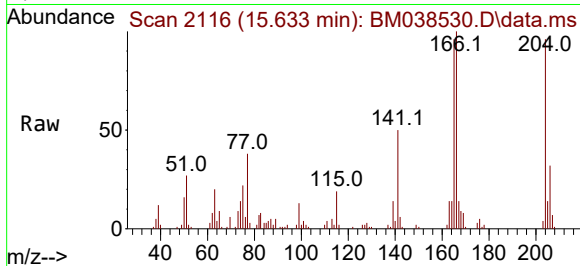




#61
4-Chlorophenyl-phenylether
Concen: 7.809 ng
RT: 15.633 min Scan# 2116
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

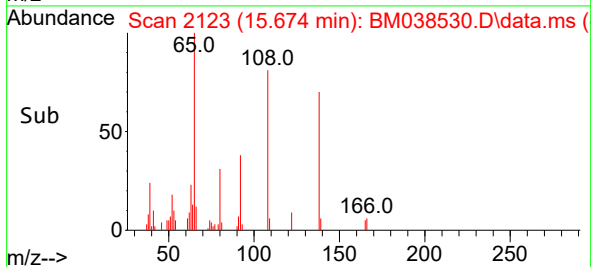
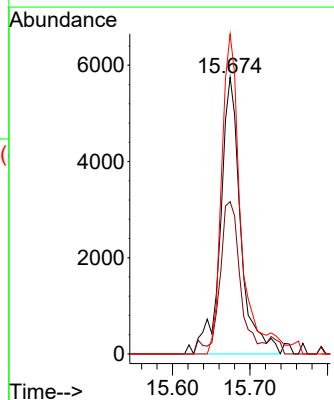
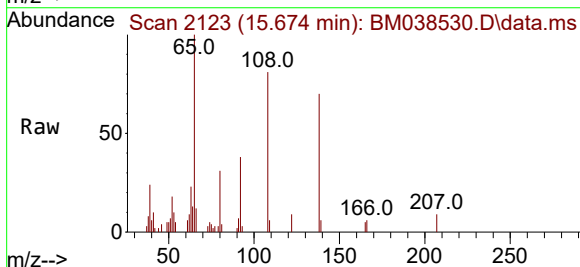
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

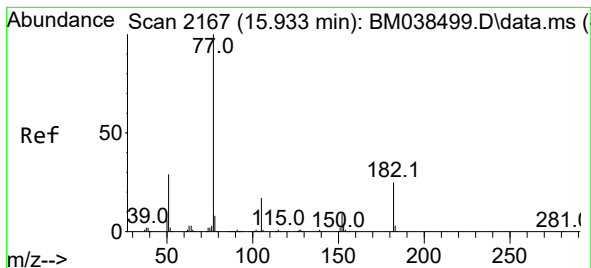
Tgt Ion:204 Resp: 36847
Ion Ratio Lower Upper
204 100
206 33.5 26.2 39.4
141 52.4 41.5 62.3



#62
4-Nitroaniline
Concen: 8.099 ng
RT: 15.674 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:138 Resp: 10424
Ion Ratio Lower Upper
138 100
92 55.1 35.2 75.2
108 115.7 87.3 127.3





#63

Azobenzene

Concen: 7.230 ng

RT: 15.927 min Scan# 2166

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

Tgt Ion: 77 Resp: 64174

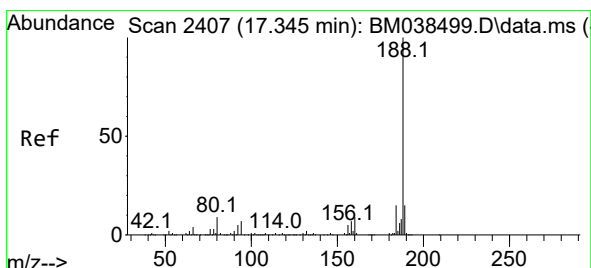
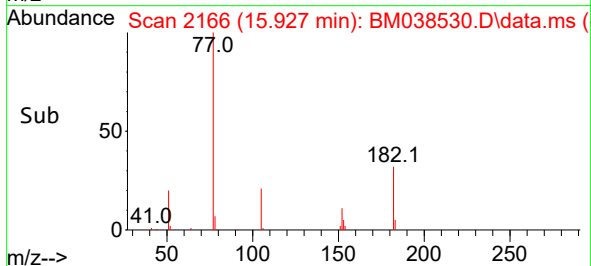
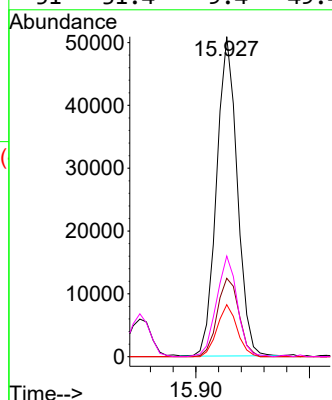
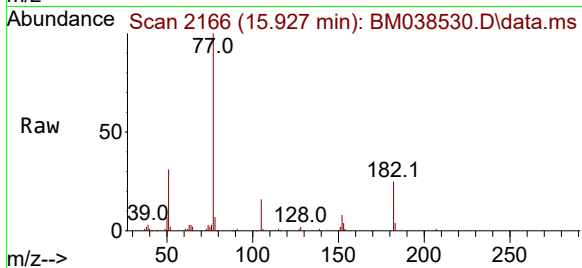
Ion Ratio Lower Upper

77 100

182 24.5 4.7 44.7

105 16.3 0.0 36.7

51 31.4 9.4 49.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.339 min Scan# 2406

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

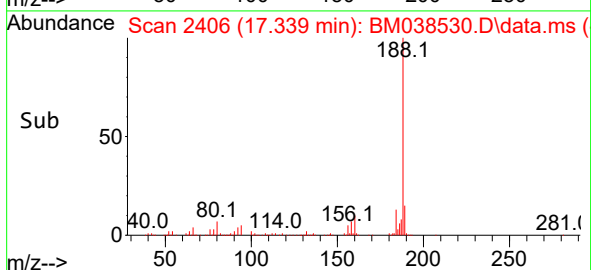
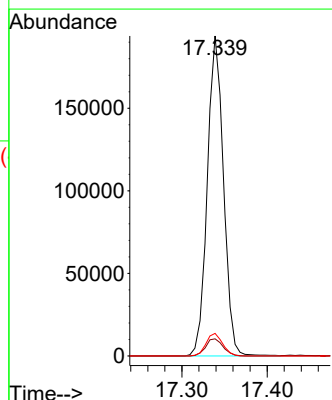
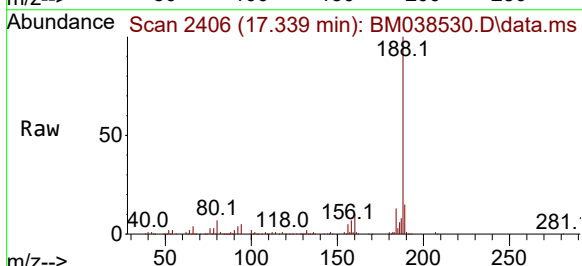
Tgt Ion:188 Resp: 256045

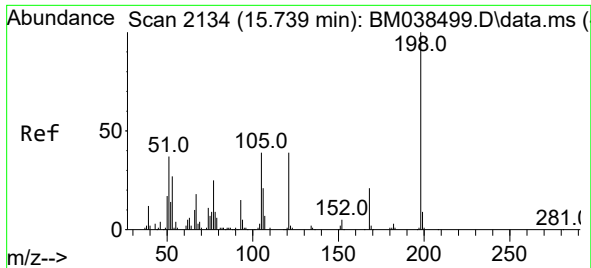
Ion Ratio Lower Upper

188 100

94 5.4 6.0 9.0#

80 7.1 6.9 10.3

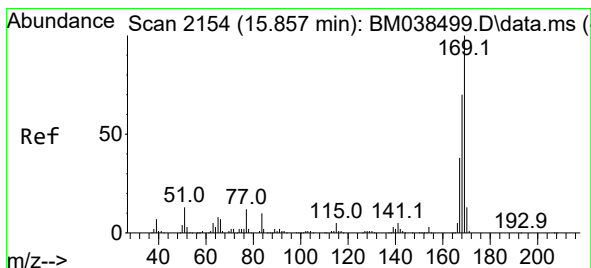
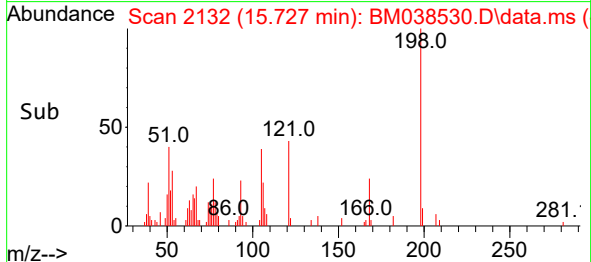
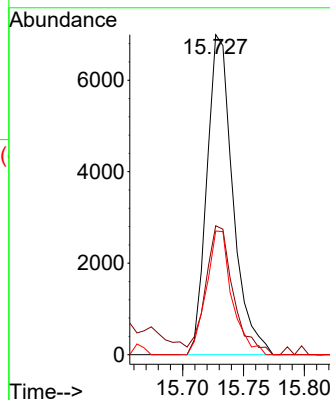
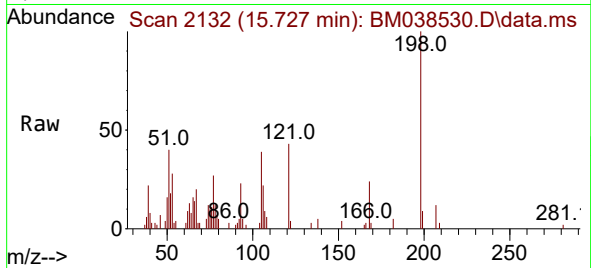




#65
4,6-Dinitro-2-methylphenol
Concen: 6.238 ng
RT: 15.727 min Scan# 2132
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

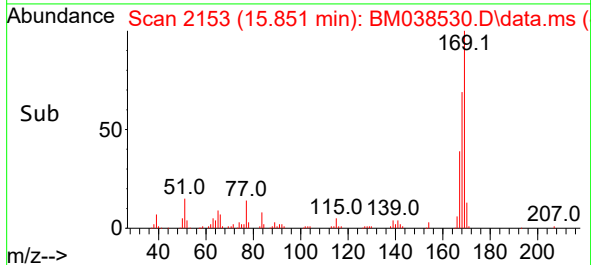
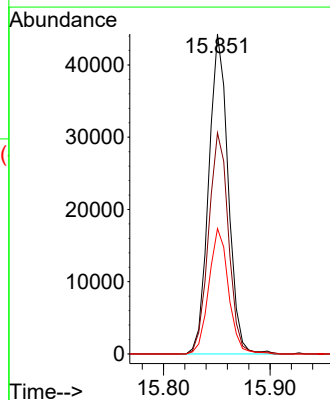
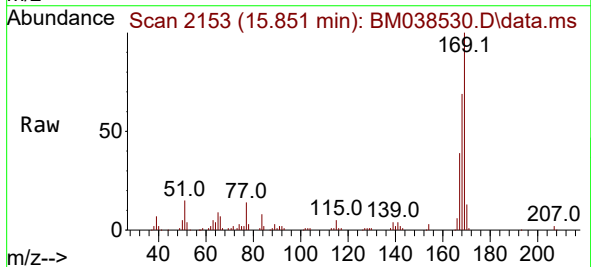
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

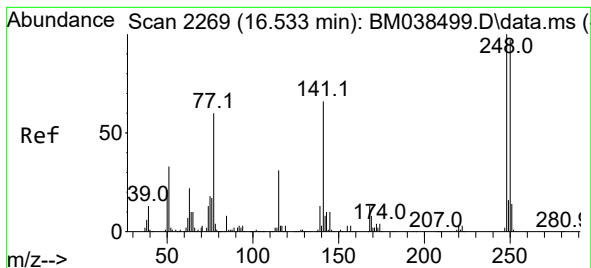
Tgt Ion:198 Resp: 10367
Ion Ratio Lower Upper
198 100
51 40.3 18.8 58.8
105 38.7 19.7 59.7



#66
n-Nitrosodiphenylamine
Concen: 7.311 ng
RT: 15.851 min Scan# 2153
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:169 Resp: 56195
Ion Ratio Lower Upper
169 100
168 69.1 55.8 83.8
167 39.2 30.3 45.5

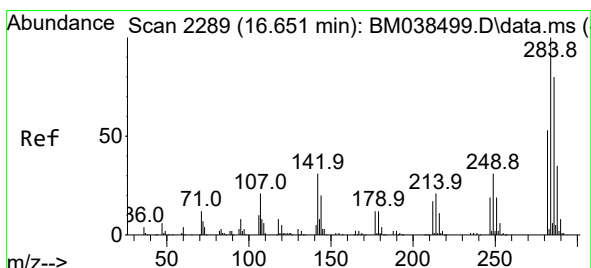
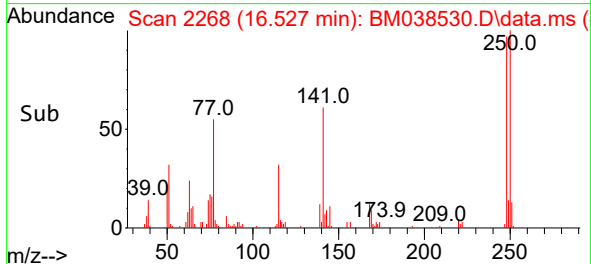
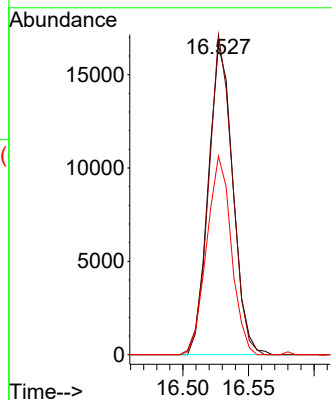
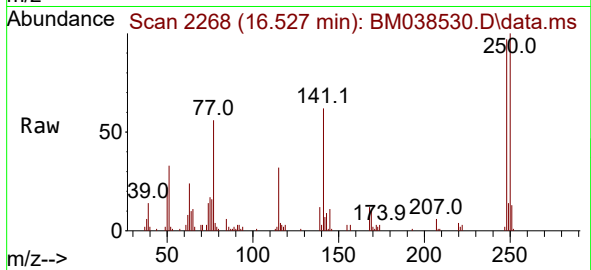




#67
4-Bromophenyl-phenylether
Concen: 7.650 ng
RT: 16.527 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

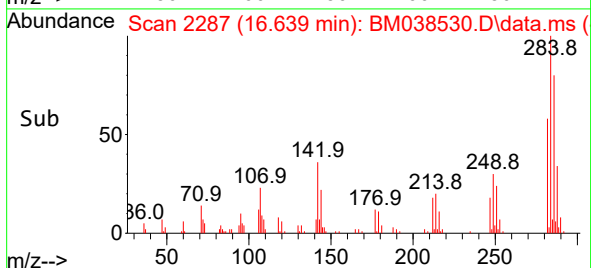
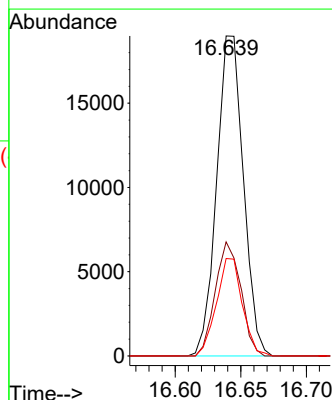
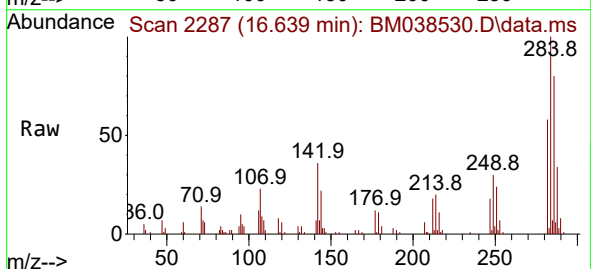
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

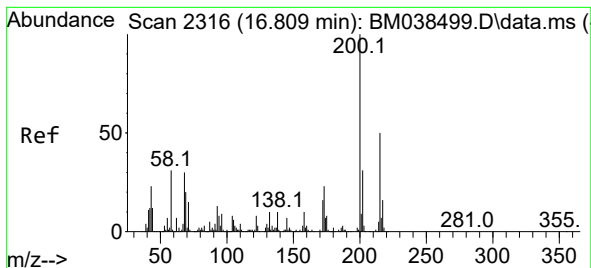
Tgt Ion:248 Resp: 21728
Ion Ratio Lower Upper
248 100
250 103.3 77.6 116.4
141 64.1 52.5 78.7



#68
Hexachlorobenzene
Concen: 8.785 ng
RT: 16.639 min Scan# 2287
Delta R.T. -0.012 min
Lab File: BM038530.D
Acq: 25 Jan 2023 13:29

Tgt Ion:284 Resp: 26922
Ion Ratio Lower Upper
284 100
142 35.7 25.2 37.8
249 30.5 24.4 36.6





#69

Atrazine

Concen: 7.994 ng

RT: 16.798 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

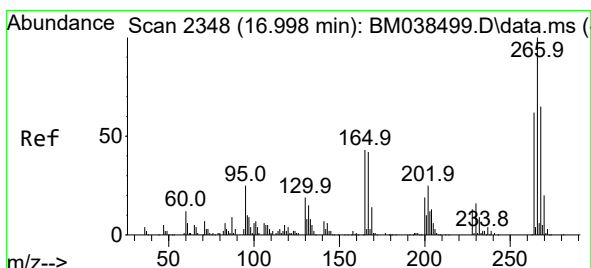
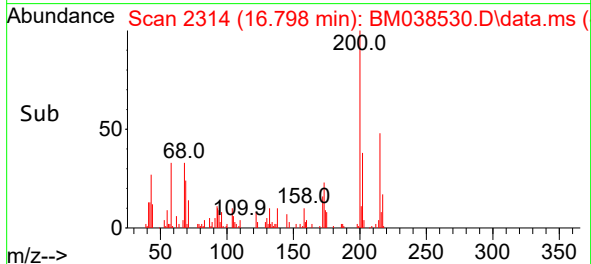
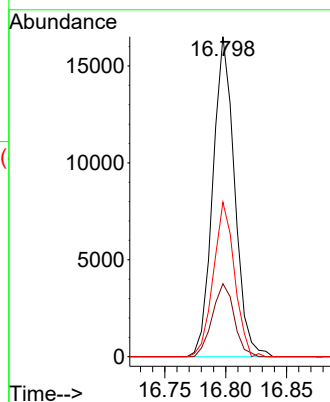
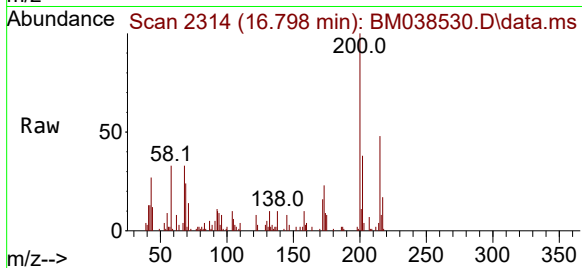
Tgt Ion:200 Resp: 20500

Ion Ratio Lower Upper

200 100

173 22.8 3.5 43.5

215 48.3 30.0 70.0



#70

Pentachlorophenol

Concen: 6.456 ng

RT: 16.992 min Scan# 2347

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

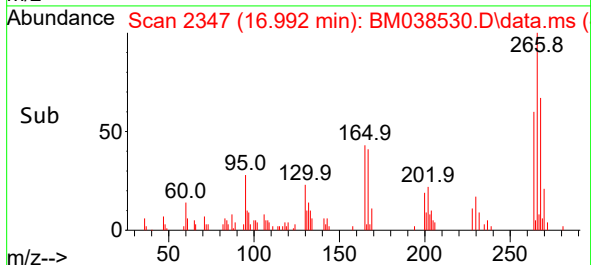
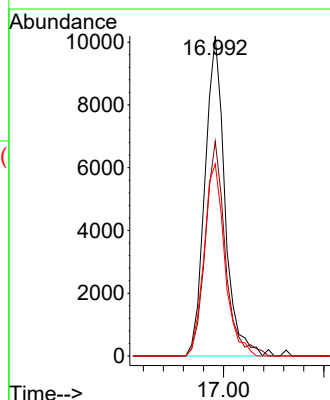
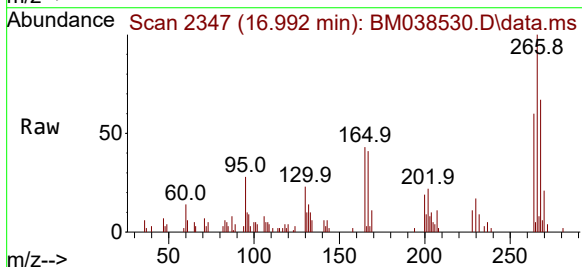
Tgt Ion:266 Resp: 14087

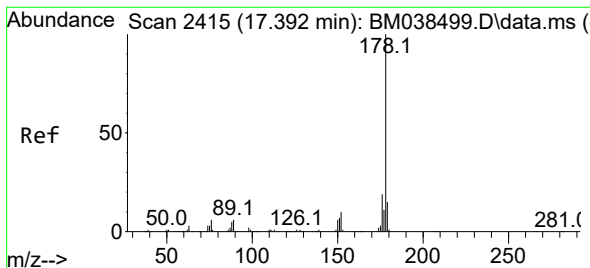
Ion Ratio Lower Upper

266 100

268 67.1 51.7 77.5

264 60.0 49.4 74.0





#71

Phenanthrene

Concen: 7.796 ng

RT: 17.380 min Scan# 2415

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

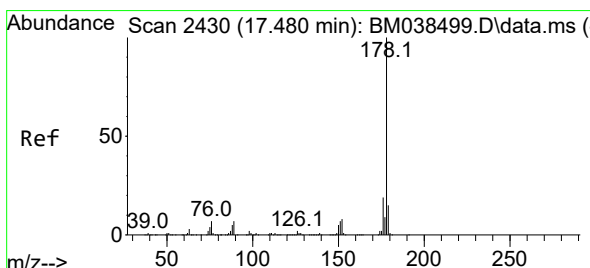
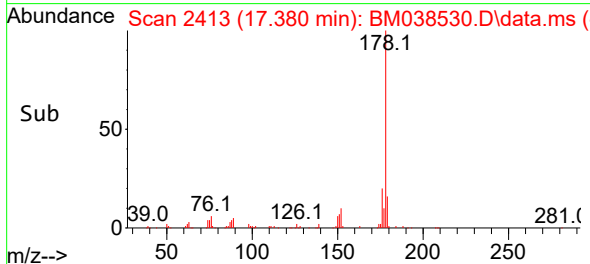
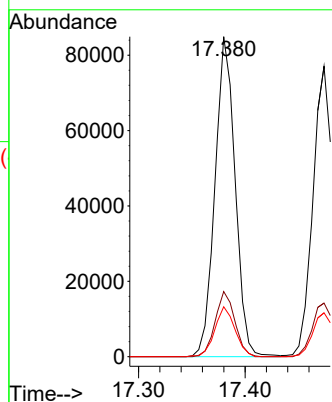
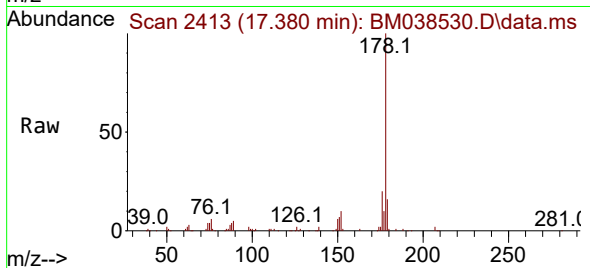
Tgt Ion:178 Resp: 111466

Ion Ratio Lower Upper

178 100

176 20.4 15.4 23.2

179 15.6 12.2 18.4



#72

Anthracene

Concen: 7.364 ng

RT: 17.474 min Scan# 2429

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

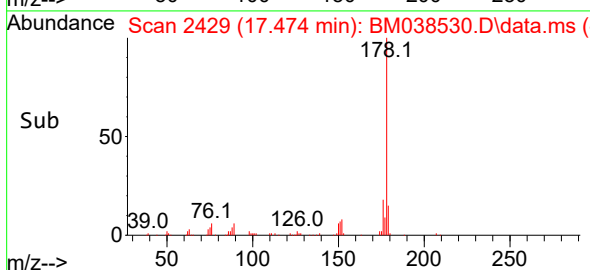
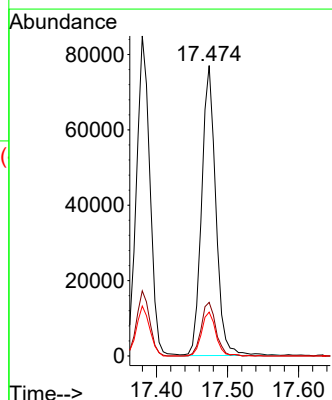
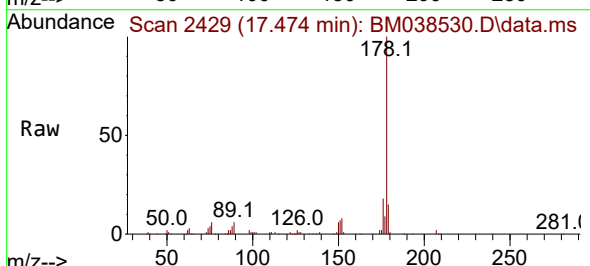
Tgt Ion:178 Resp: 107142

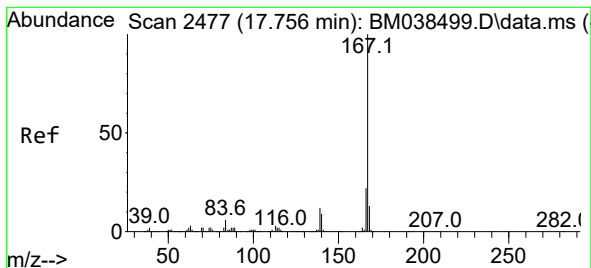
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.1 12.2 18.4





#73

Carbazole

Concen: 7.360 ng

RT: 17.745 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

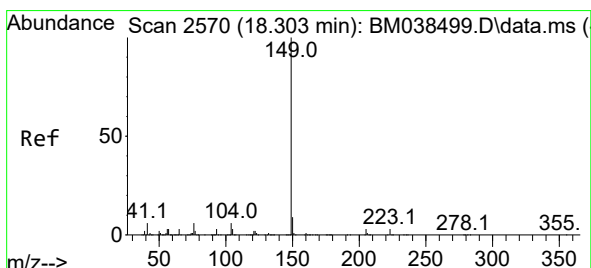
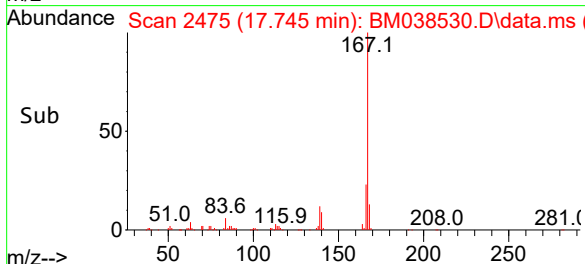
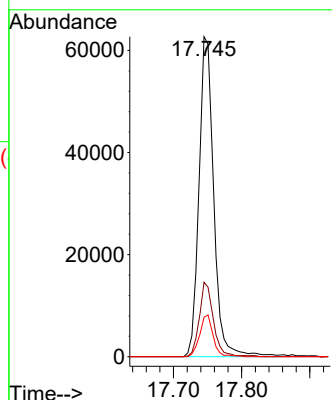
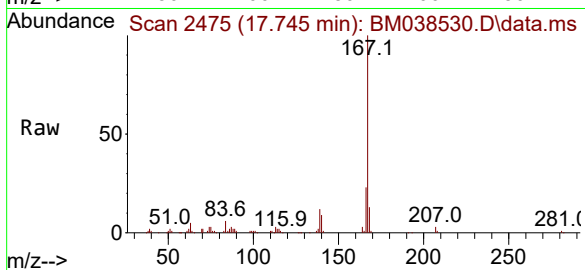
Tgt Ion:167 Resp: 94301

Ion Ratio Lower Upper

167 100

166 23.2 17.7 26.5

139 12.3 9.4 14.0



#74

Di-n-butylphthalate

Concen: 6.832 ng

RT: 18.298 min Scan# 2569

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

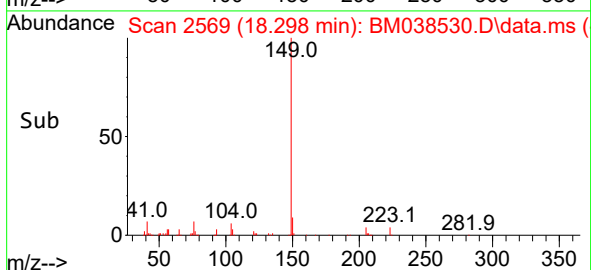
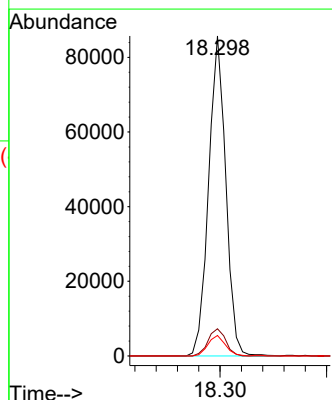
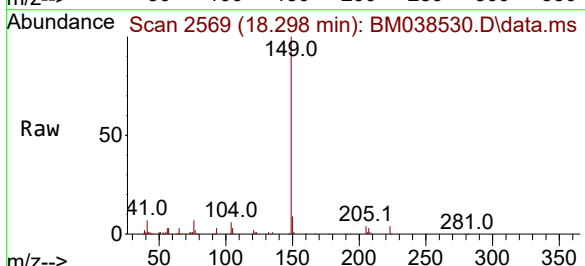
Tgt Ion:149 Resp: 96168

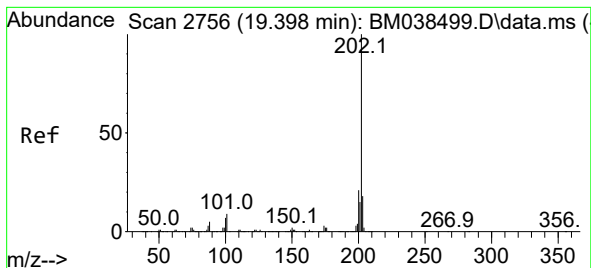
Ion Ratio Lower Upper

149 100

150 8.5 7.4 11.0

104 6.4 4.6 6.8





#75

Fluoranthene

Concen: 7.642 ng

RT: 19.392 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

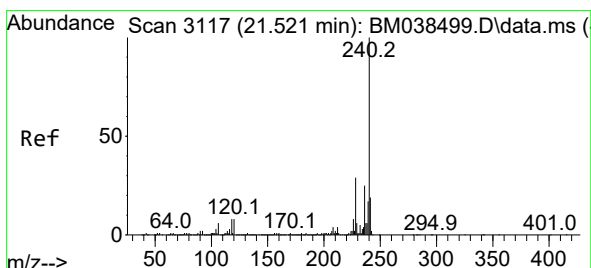
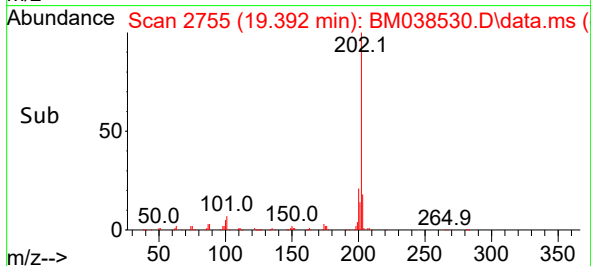
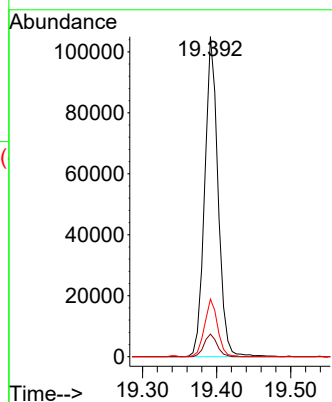
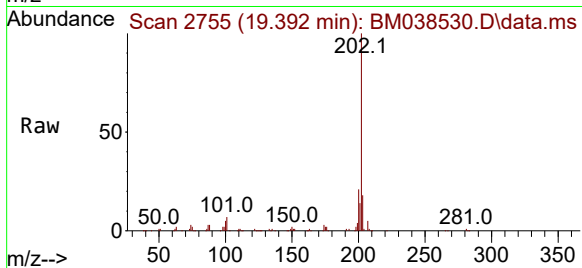
Tgt Ion:202 Resp: 131326

Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.7

203 18.0 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 3116

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

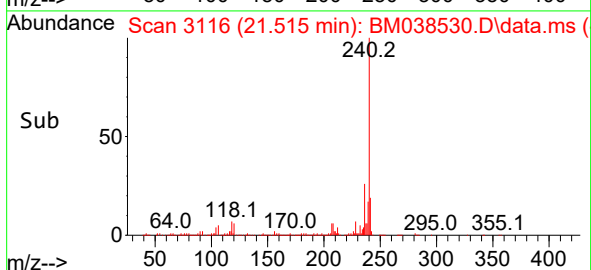
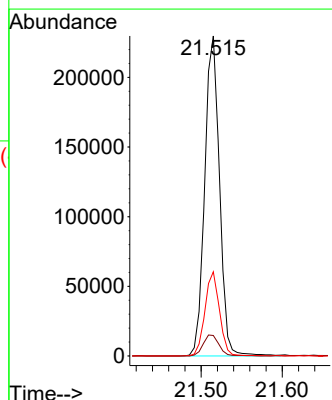
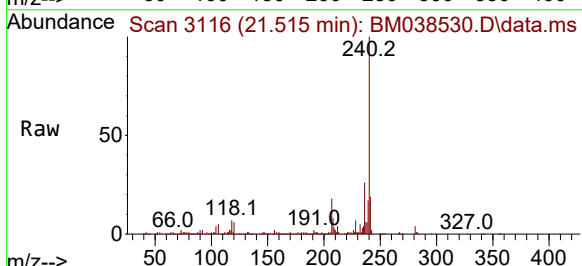
Tgt Ion:240 Resp: 290559

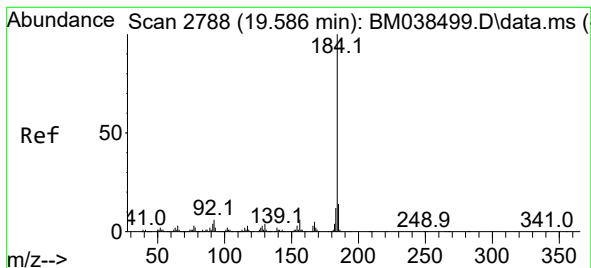
Ion Ratio Lower Upper

240 100

120 6.4 6.2 9.2

236 26.3 20.2 30.2





#77

Benzidine

Concen: 8.758 ng

RT: 19.580 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

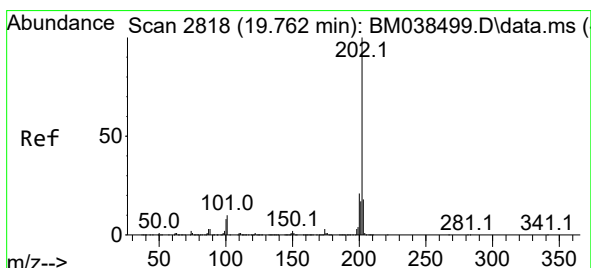
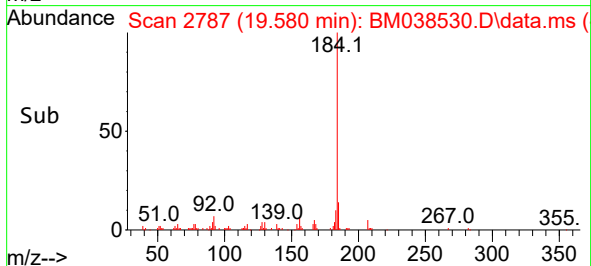
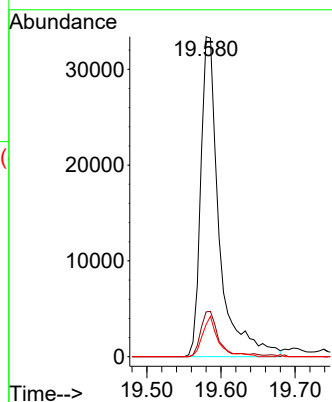
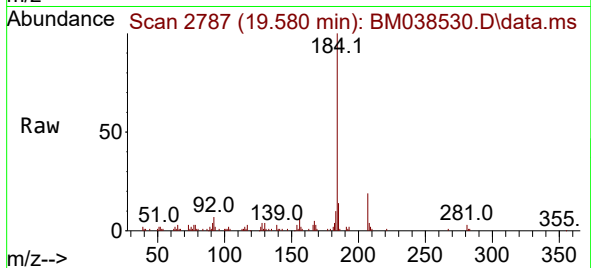
Tgt Ion:184 Resp: 57989

Ion Ratio Lower Upper

184 100

185 14.0 10.9 16.3

183 10.1 9.3 13.9



#78

Pyrene

Concen: 6.991 ng

RT: 19.756 min Scan# 2817

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

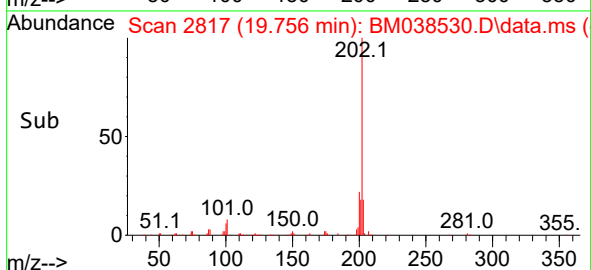
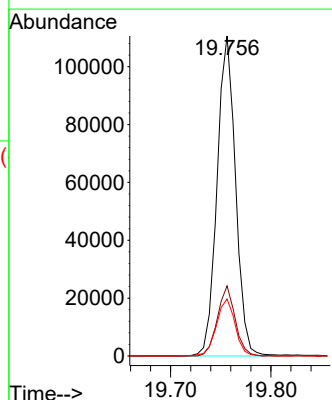
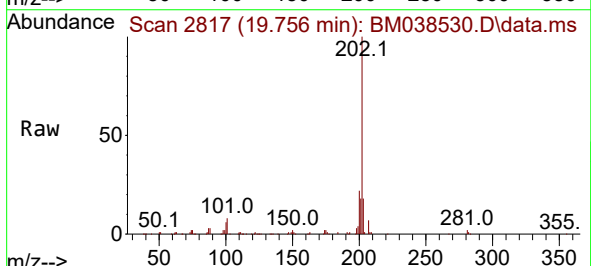
Tgt Ion:202 Resp: 141435

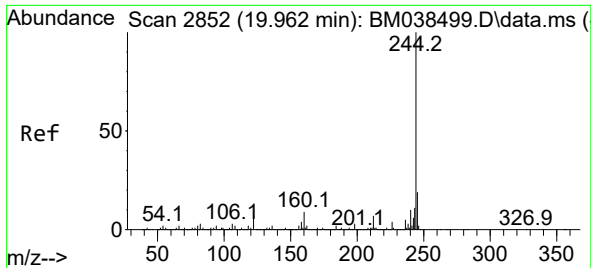
Ion Ratio Lower Upper

202 100

200 21.9 17.0 25.4

203 17.8 14.2 21.2

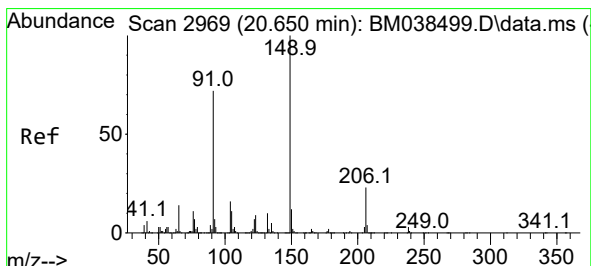
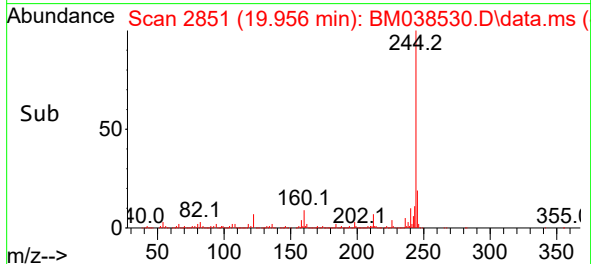
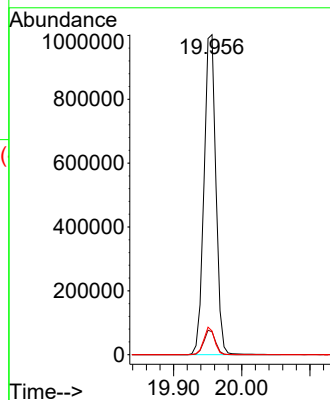
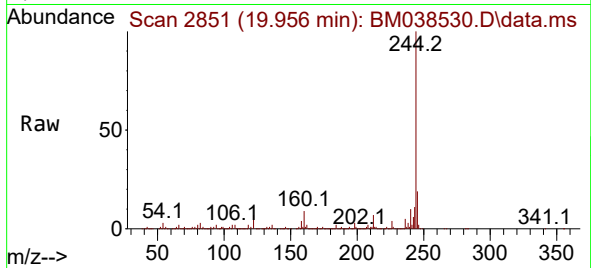




#79
 Terphenyl-d14
 Concen: 81.303 ng
 RT: 19.956 min Scan# 2851
 Delta R.T. -0.006 min
 Lab File: BM038530.D
 Acq: 25 Jan 2023 13:29

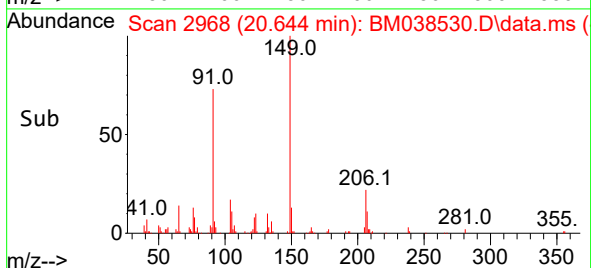
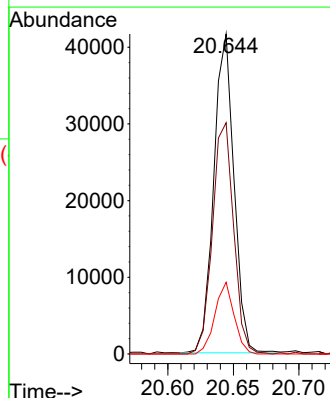
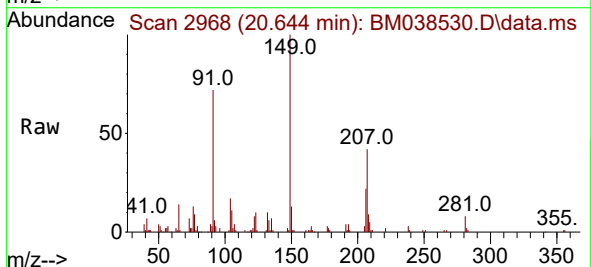
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT4-2022

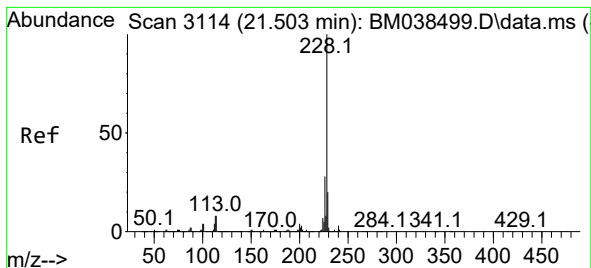
Tgt Ion:244 Resp: 1211752
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.0 9.0
 122 7.4 6.7 10.1



#80
 Butylbenzylphthalate
 Concen: 6.359 ng
 RT: 20.644 min Scan# 2968
 Delta R.T. -0.006 min
 Lab File: BM038530.D
 Acq: 25 Jan 2023 13:29

Tgt Ion:149 Resp: 44486
 Ion Ratio Lower Upper
 149 100
 91 72.2 57.5 86.3
 206 22.4 18.2 27.2





#81

Benzo(a)anthracene

Concen: 7.944 ng

RT: 21.497 min Scan# 3114

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

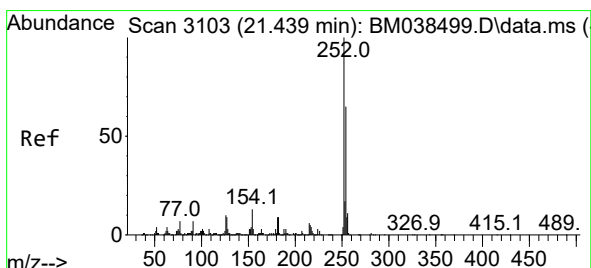
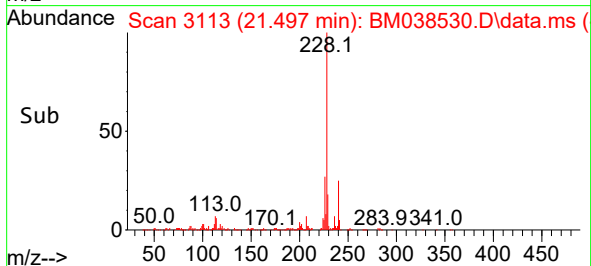
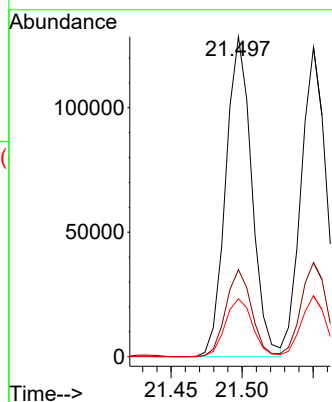
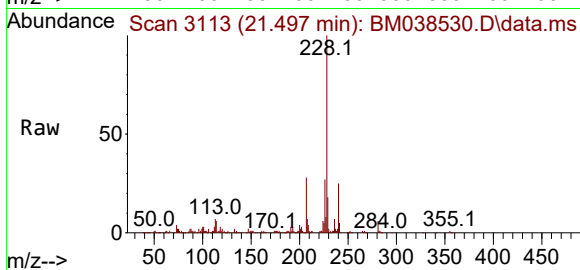
Tgt Ion:228 Resp: 163564

Ion Ratio Lower Upper

228 100

226 27.2 22.2 33.2

229 18.1 16.0 24.0



#82

3,3'-Dichlorobenzidine

Concen: 8.656 ng

RT: 21.433 min Scan# 3102

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

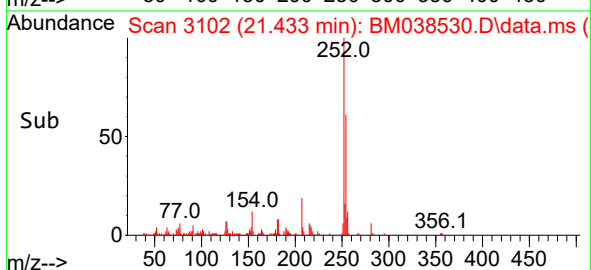
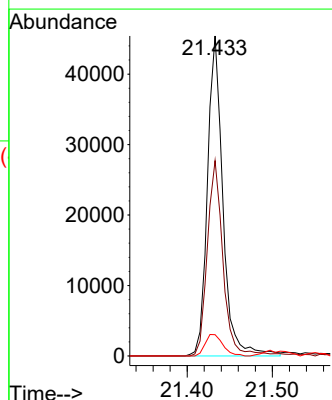
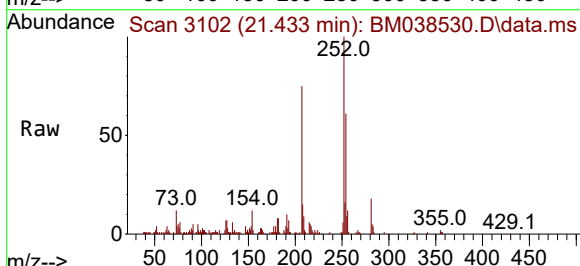
Tgt Ion:252 Resp: 57246

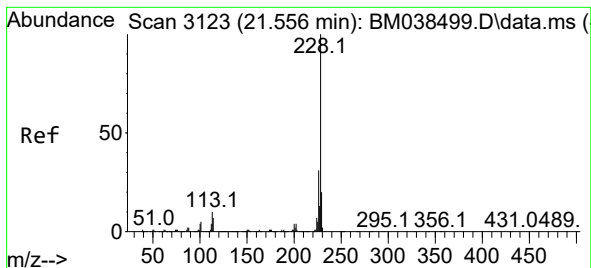
Ion Ratio Lower Upper

252 100

254 61.0 51.9 77.9

126 6.7 7.7 11.5#





#83

Chrysene

Concen: 7.654 ng

RT: 21.550 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

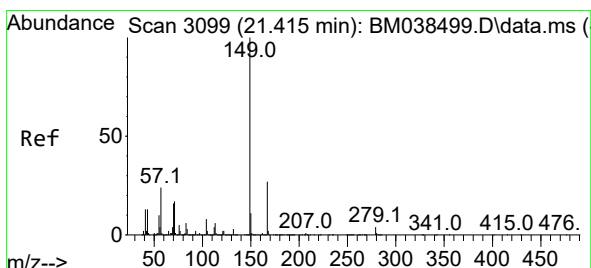
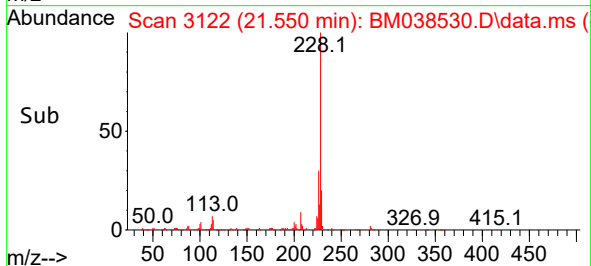
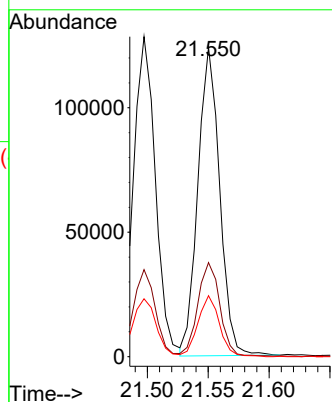
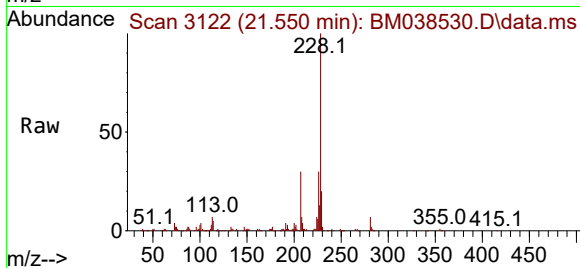
Tgt Ion:228 Resp: 154115

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 19.7 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 6.410 ng

RT: 21.409 min Scan# 3098

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

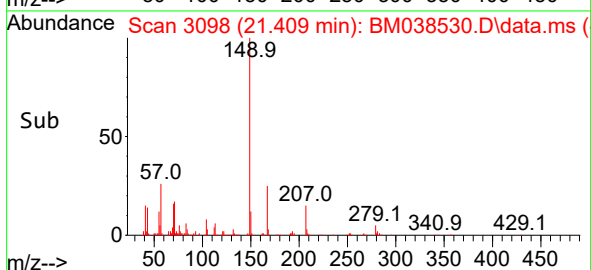
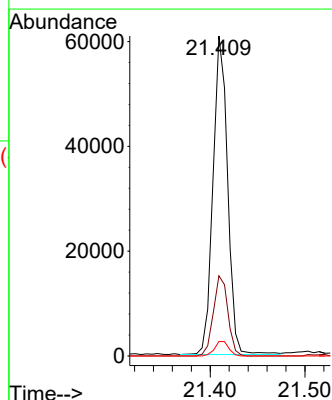
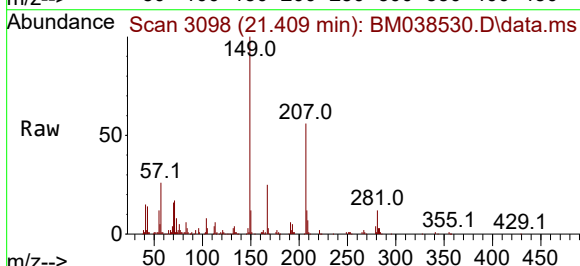
Tgt Ion:149 Resp: 64988

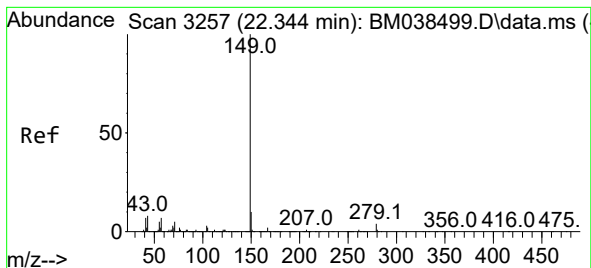
Ion Ratio Lower Upper

149 100

167 25.1 21.3 31.9

279 4.5 3.0 4.4#





#85

Di-n-octyl phthalate

Concen: 6.500 ng

RT: 22.333 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

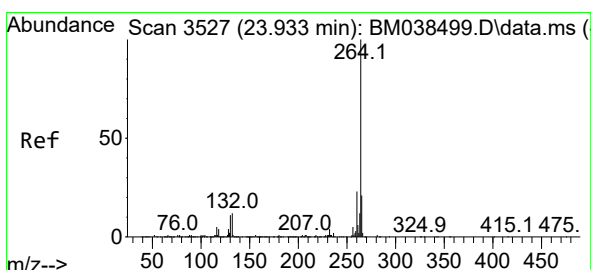
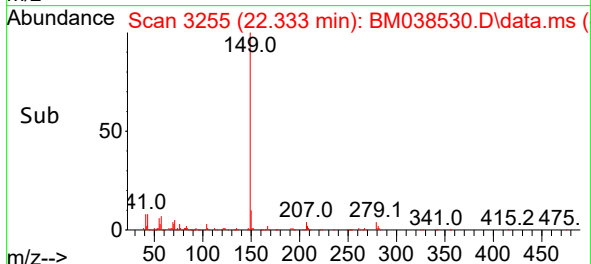
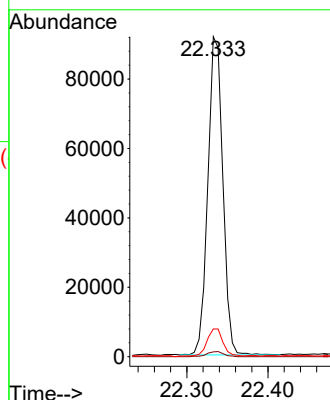
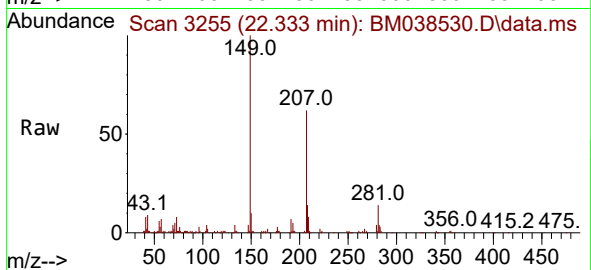
Tgt Ion:149 Resp: 117182

Ion Ratio Lower Upper

149 100

167 1.8 1.3 1.9

43 9.7 6.7 10.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3526

Delta R.T. -0.006 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

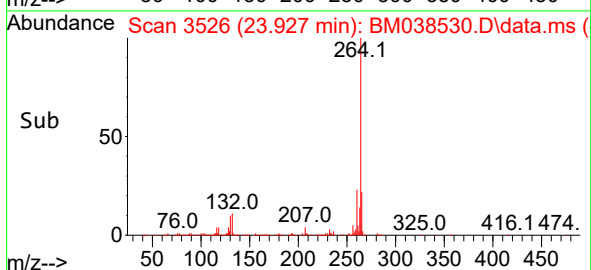
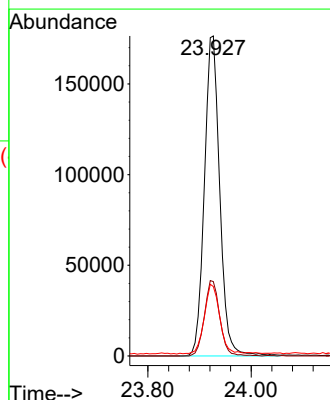
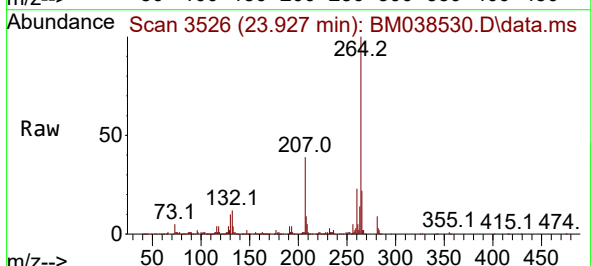
Tgt Ion:264 Resp: 363851

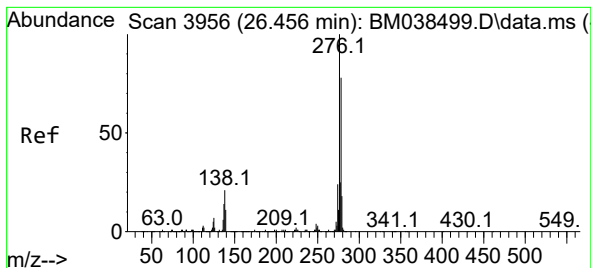
Ion Ratio Lower Upper

264 100

260 23.3 18.5 27.7

265 21.7 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.630 ng

RT: 26.432 min Scan# 3956

Delta R.T. -0.024 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

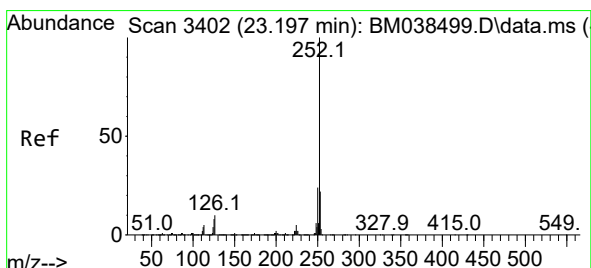
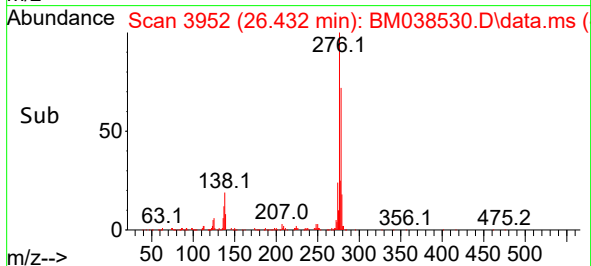
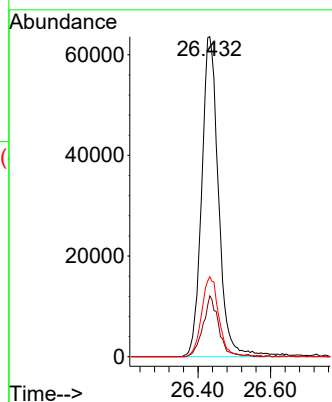
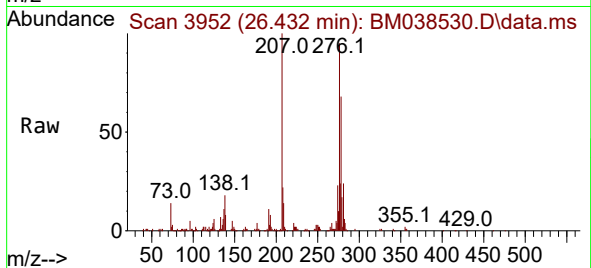
Tgt Ion:276 Resp: 205431

Ion Ratio Lower Upper

276 100

138 17.5 15.8 23.8

277 25.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 7.946 ng

RT: 23.185 min Scan# 3400

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

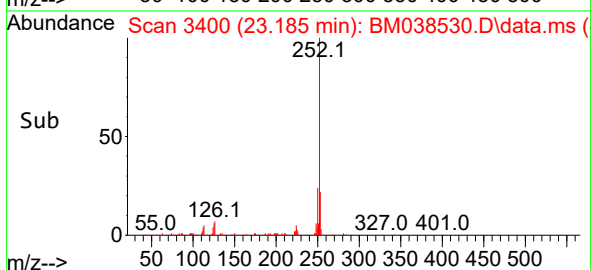
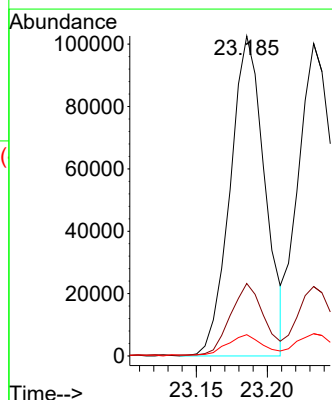
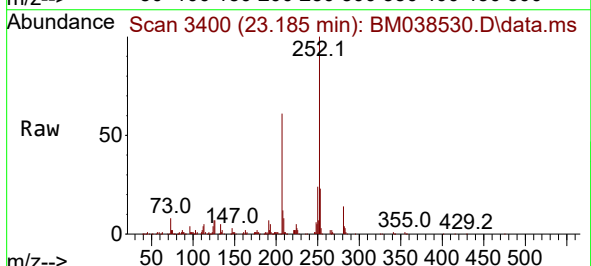
Tgt Ion:252 Resp: 174396

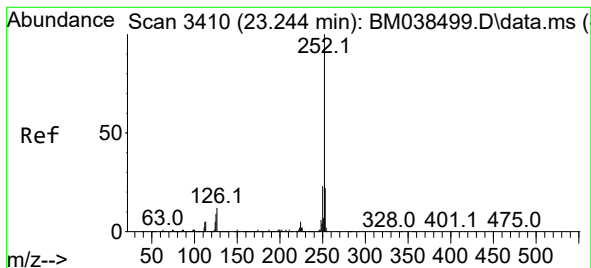
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 6.7 6.4 9.6





#89

Benzo(k)fluoranthene

Concen: 7.757 ng

RT: 23.233 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

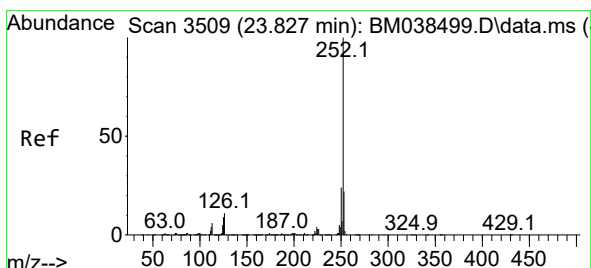
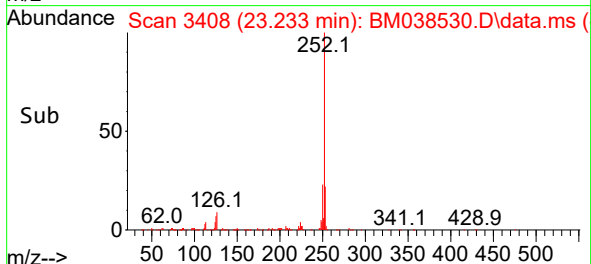
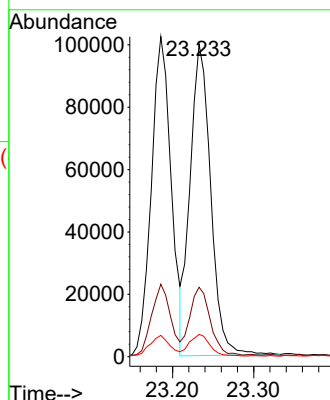
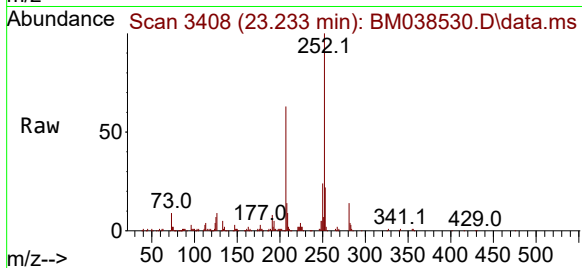
Tgt Ion:252 Resp: 176183

Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.8

125 7.1 6.8 10.2



#90

Benzo(a)pyrene

Concen: 7.122 ng

RT: 23.815 min Scan# 3507

Delta R.T. -0.012 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

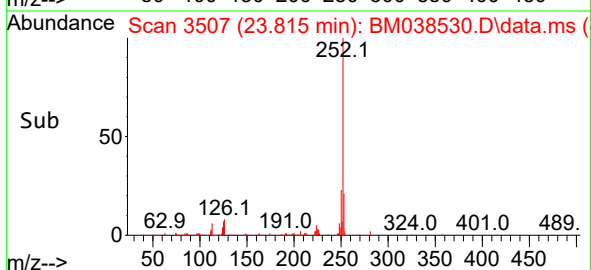
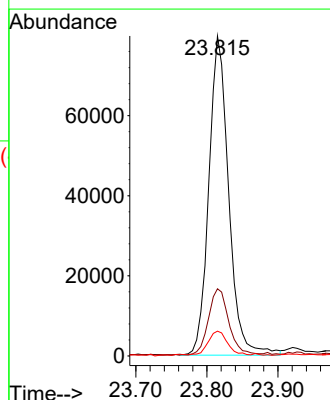
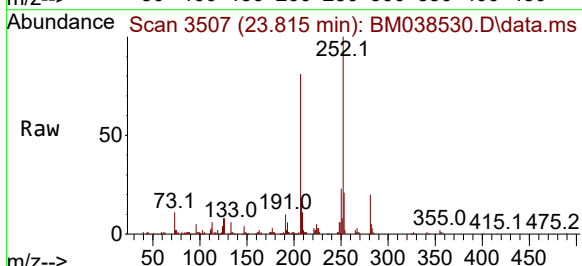
Tgt Ion:252 Resp: 154991

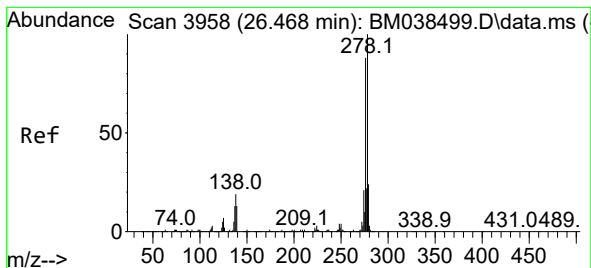
Ion Ratio Lower Upper

252 100

253 21.0 17.4 26.0

125 7.7 7.3 10.9





#91

Dibenzo(a,h)anthracene

Concen: 7.741 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.024 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

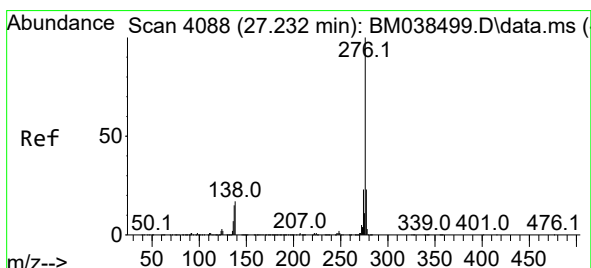
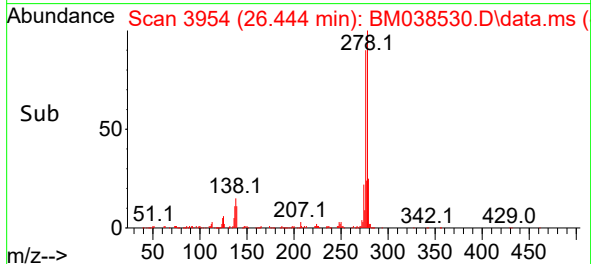
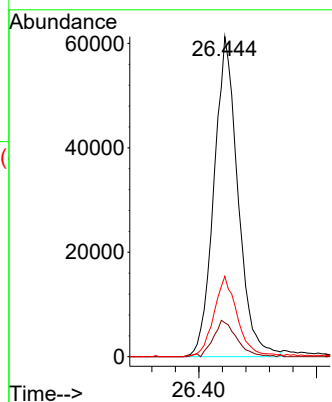
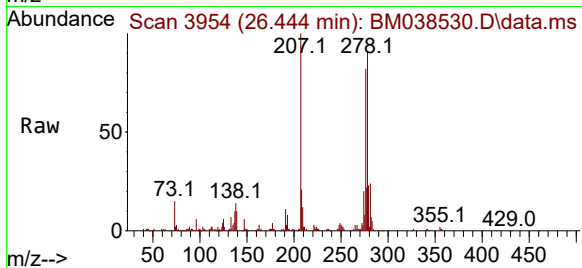
Tgt Ion:278 Resp: 173479

Ion Ratio Lower Upper

278 100

139 10.6 10.3 15.5

279 25.1 19.3 28.9



#92

Benzo(g,h,i)perylene

Concen: 7.887 ng

RT: 27.209 min Scan# 4084

Delta R.T. -0.024 min

Lab File: BM038530.D

Acq: 25 Jan 2023 13:29

Tgt Ion:276 Resp: 181062

Ion Ratio Lower Upper

276 100

277 22.2 18.8 28.2

138 15.7 13.8 20.8

