

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP010323\
 Data File : BP013379.D
 Acq On : 03 Jan 2023 15:49
 Operator : CG/JU
 Sample : N5388-03
 Misc : SFAM-MDL-S-01-4PPM
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT4-2022-07

Quant Time: Jan 04 01:09:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP120722.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 28 00:16:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	501036	20.000	ng/ul	-0.01
20) Naphthalene-d8	10.740	136	2218163	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.569	164	1604667	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.328	188	3638971	20.000	ng/ul	0.00
79) Chrysene-d12	21.416	240	2667333	20.000	ng/ul	0.00
88) Perylene-d12	23.880	264	2191014	20.000	ng/ul	-0.01
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.323	96	53415	4.558	ng/uL	0.00
4) Pyridine-d5	3.752	84	348371	10.465	ng/ul	0.00
7) Phenol-d5	7.087	99	811109	19.875	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.252	67	552903	22.459	ng/ul	0.00
11) 2-Chlorophenol-d4	7.452	132	647782	20.163	ng/ul	-0.01
15) 4-Methylphenol-d8	8.634	113	672031	20.097	ng/ul	-0.01
21) Nitrobenzene-d5	9.093	128	325155	19.951	ng/ul	0.00
24) 2-Nitrophenol-d4	9.816	143	363358	19.804	ng/ul	-0.01
28) 2,4-Dichlorophenol-d3	10.358	165	705293	19.790	ng/ul	0.00
31) 4-Chloroaniline-d4	10.875	131	999915	19.875	ng/ul	-0.01
46) Dimethylphthalate-d6	13.975	166	2490135	20.192	ng/ul	0.00
49) Acenaphthylene-d8	14.263	160	2684019	19.806	ng/ul	0.00
54) 4-Nitrophenol-d4	14.769	143	368963	16.632	ng/ul	-0.01
60) Fluorene-d10	15.563	176	2148928	20.597	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.687	200	388562	16.593	ng/ul	0.00
73) Anthracene-d10	17.428	188	3355894	20.441	ng/ul	0.00
81) Pyrene-d10	19.657	212	3669795	23.969	ng/ul	-0.01
92) Benzo(a)pyrene-d12	23.722	264	2250403	20.606	ng/ul	-0.01
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.358	88	20785	1.699	ng/uL#	95
5) Pyridine	3.776	79	139136	4.206	ng/ul#	81
6) Benzaldehyde	7.064	77	84201	5.269	ng/ul	93
8) Phenol	7.117	94	190988	4.629	ng/ul	95
10) Bis(2-Chloroethyl)ether	7.346	93	163313	4.822	ng/ul	93
12) 2-Chlorophenol	7.487	128	152104	4.617	ng/ul	93
13) 2-Methylphenol	8.369	108	130300	4.050	ng/ul	92
14) 2,2'-oxybis(1-Chloropr...	8.464	45	261939	5.636	ng/ul	98
16) Acetophenone	8.758	105	250992	4.895	ng/ul#	95
17) N-Nitroso-di-n-propyla...	8.734	70	128246	4.974	ng/ul#	86
18) 4-Methylphenol	8.699	108	158513	4.449	ng/ul	92
19) Hexachloroethane	9.005	117	59547	4.523	ng/ul	97
22) Nitrobenzene	9.134	77	190597	4.984	ng/ul	95
23) Isophorone	9.663	82	342017	4.423	ng/ul	98
25) 2-Nitrophenol	9.852	139	87805	4.417	ng/ul	94
26) 2,4-Dimethylphenol	9.905	107	172476	4.447	ng/ul	98
27) Bis(2-Chloroethoxy)met...	10.146	93	231873	4.690	ng/ul	98
29) 2,4-Dichlorophenol	10.387	162	159974	4.582	ng/ul	98
30) Naphthalene	10.787	128	544509	4.694	ng/ul	100
32) 4-Chloroaniline	10.905	127	226136	4.542	ng/ul	99
33) Hexachlorobutadiene	11.069	225	115034	4.799	ng/ul	98
34) Caprolactam	11.705	113	66573	5.593	ng/ul	87
35) 4-Chloro-3-methylphenol	12.022	107	152704	4.286	ng/ul	99
36) 2-Methylnaphthalene	12.393	142	368458	4.630	ng/ul	99

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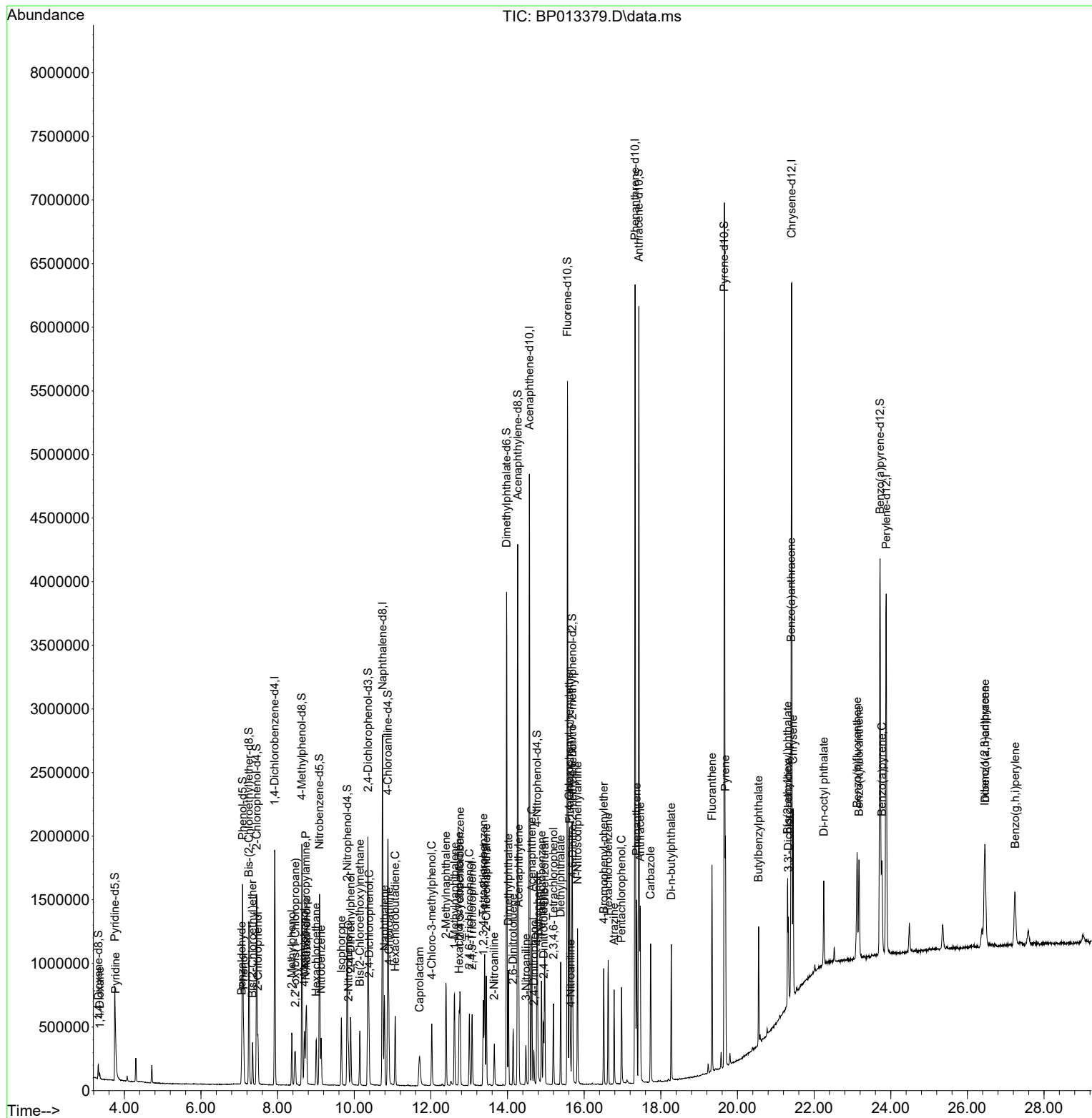
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37) 1-Methylnaphthalene	12.616	142	334415	4.086	ng/ul	97
39) 1,2,4,5-Tetrachloroben...	12.763	216	230588	4.463	ng/ul	98
40) Hexachlorocyclopentadiene	12.734	237	140460	4.177	ng/ul#	98
41) 2,4,6-Trichlorophenol	13.004	196	128794	3.879	ng/ul	98
42) 2,4,5-Trichlorophenol	13.075	196	146308	4.102	ng/ul	97
43) 1,1'-Biphenyl	13.404	154	535578	4.444	ng/ul	99
44) 2-Chloronaphthalene	13.446	162	418934	4.417	ng/ul	100
45) 2-Nitroaniline	13.651	65	92451	4.020	ng/ul#	84
47) Dimethylphthalate	14.022	163	544684	4.456	ng/ul	100
48) 2,6-Dinitrotoluene	14.146	165	80452	3.542	ng/ul	93
50) Acenaphthylene	14.293	152	649242	4.456	ng/ul	98
51) 3-Nitroaniline	14.481	138	71875	3.351	ng/ul#	93
52) Acenaphthene	14.634	153	448996	4.447	ng/ul	100
53) 2,4-Dinitrophenol	14.687	184	54428	3.505	ng/ul#	89
55) 4-Nitrophenol	14.787	109	64223	4.243	ng/ul	86
56) Dibenzofuran	14.969	168	665096	4.633	ng/ul	100
57) 2,4-Dinitrotoluene	14.940	165	125506	3.804	ng/ul	89
58) 2,3,4,6-Tetrachlorophenol	15.198	232	130085	3.996	ng/ul	96
59) Diethylphthalate	15.387	149	494156	4.159	ng/ul	99
61) Fluorene	15.622	166	534818	4.646	ng/ul	98
62) 4-Chlorophenyl-phenyle...	15.610	204	289114	4.749	ng/ul	99
63) 4-Nitroaniline	15.646	138	60598	3.211	ng/ul#	82
66) 4,6-Dinitro-2-methylph...	15.698	198	131003	5.725	ng/ul#	84
67) N-Nitrosodiphenylamine	15.828	169	438464	4.346	ng/ul	100
68) 4-Bromophenyl-phenylether	16.510	248	169731	4.295	ng/ul	96
69) Hexachlorobenzene	16.628	284	205450	4.378	ng/ul	99
70) Atrazine	16.781	200	128968	3.280	ng/ul	98
71) Pentachlorophenol	16.975	266	131709	4.635	ng/ul	99
72) Phenanthrene	17.369	178	853182	4.501	ng/ul	100
74) Anthracene	17.463	178	854133	4.513	ng/ul	100
75) 1,2,3,4-Tetrachloroben...	13.369	216	206957	3.986	ng/uL	99
76) Pentachlorobenzene	14.887	250	212857	4.021	ng/uL	96
77) Carbazole	17.734	167	669725	4.202	ng/ul	99
78) Di-n-butylphthalate	18.275	149	694978	3.581	ng/ul	99
80) Fluoranthene	19.334	202	919227	5.290	ng/ul	99
82) Pyrene	19.686	202	997012	5.562	ng/ul	99
83) Butylbenzylphthalate	20.551	149	239520	3.459	ng/ul	93
84) 3,3'-Dichlorobenzidine	21.328	252	191099	3.171	ng/ul	98
85) Benzo(a)anthracene	21.398	228	762479	4.306	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.310	149	292778	2.997	ng/ul	99
87) Chrysene	21.451	228	743086	4.438	ng/ul	99
89) Di-n-octyl phthalate	22.251	149	389421	3.173	ng/ul	100
90) Benzo(b)fluoranthene	23.122	252	615542	4.406	ng/ul	99
91) Benzo(k)fluoranthene	23.175	252	620347	4.478	ng/ul	99
93) Benzo(a)pyrene	23.769	252	527657	4.337	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	26.451	276	697120	4.600	ng/ul	99
95) Dibenzo(a,h)anthracene	26.463	278	585430	4.666	ng/ul	99
96) Benzo(g,h,i)perylene	27.245	276	587215	4.827	ng/ul	98

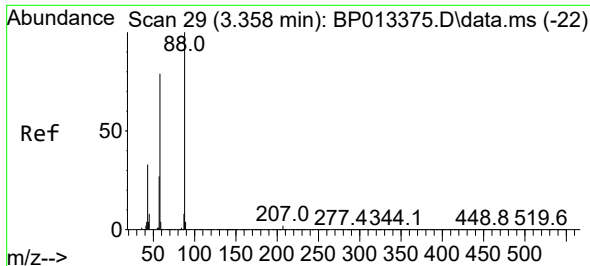
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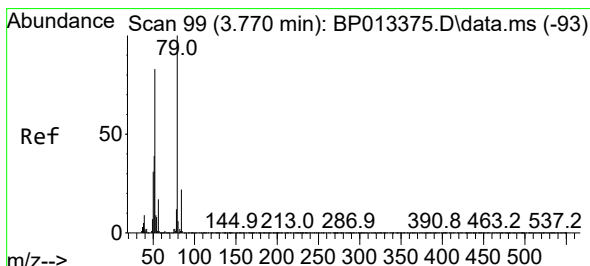
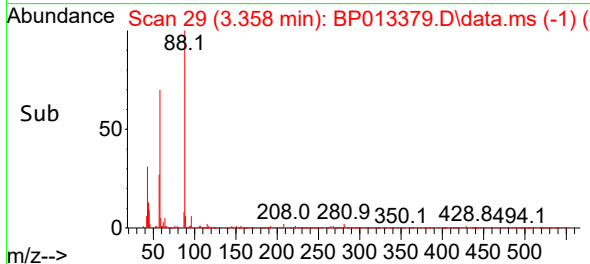
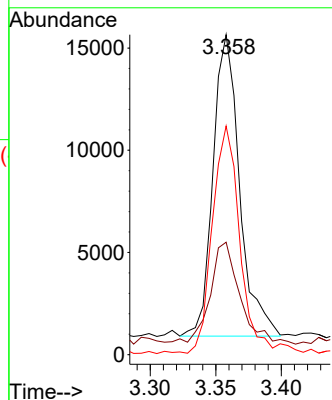
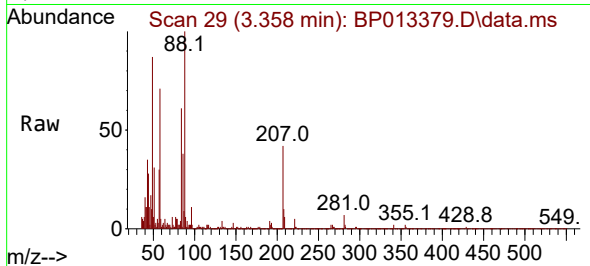




#2
1,4-Dioxane
Concen: 1.699 ng/uL
RT: 3.358 min Scan# 29
Delta R.T. 0.000 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

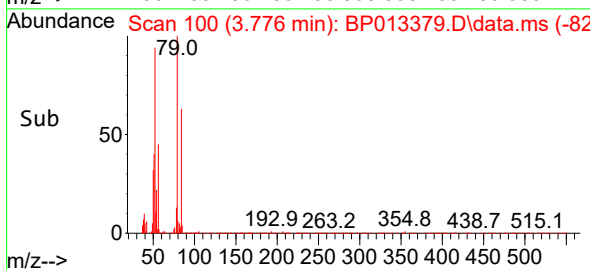
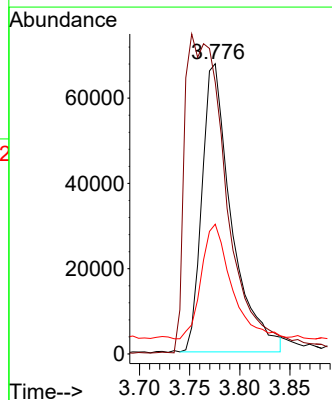
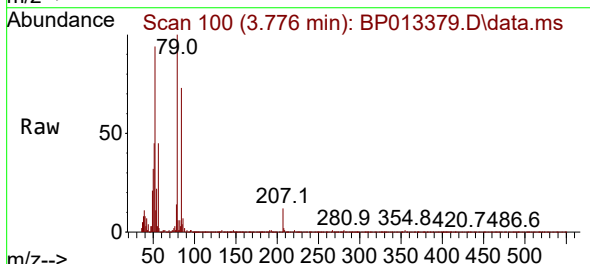
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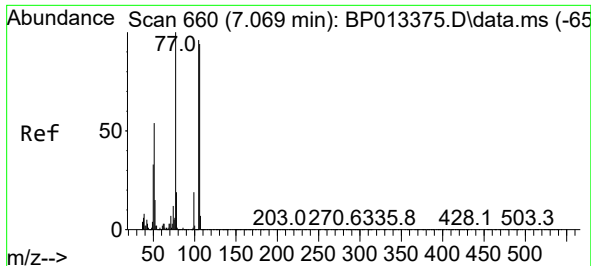
Tgt Ion: 88 Resp: 20785
Ion Ratio Lower Upper
88 100
43 35.2 22.4 33.6#
58 71.5 58.2 87.4



#5
Pyridine
Concen: 4.206 ng/uL
RT: 3.776 min Scan# 100
Delta R.T. 0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion: 79 Resp: 139136
Ion Ratio Lower Upper
79 100
52 93.6 60.7 91.1#
51 44.7 28.9 43.3#

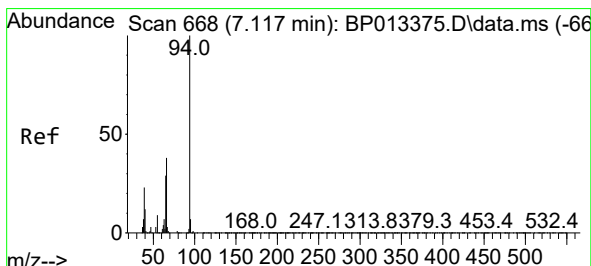
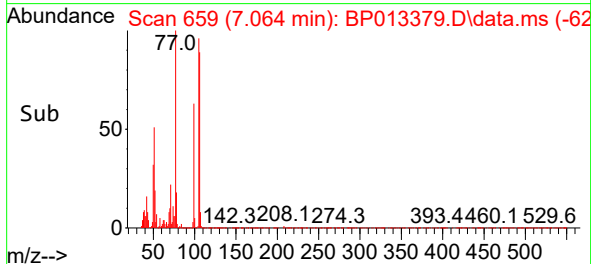
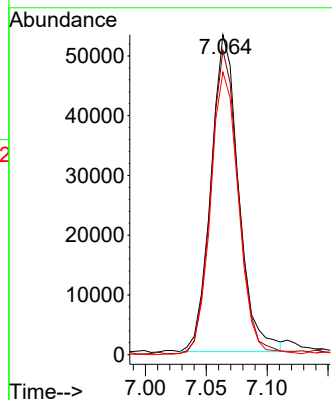
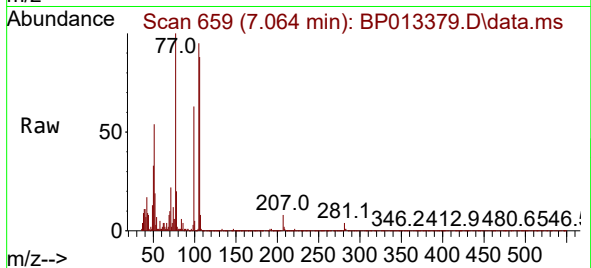




#6
Benzaldehyde
Concen: 5.269 ng/ul
RT: 7.064 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

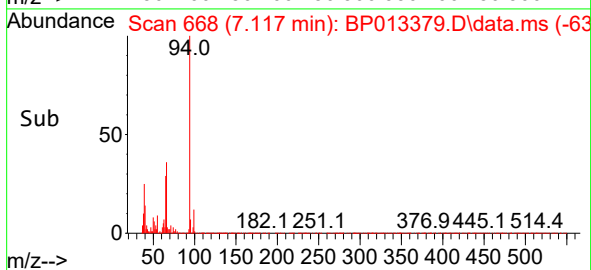
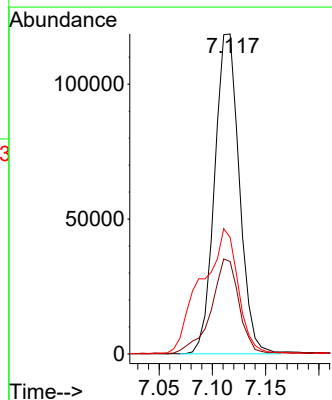
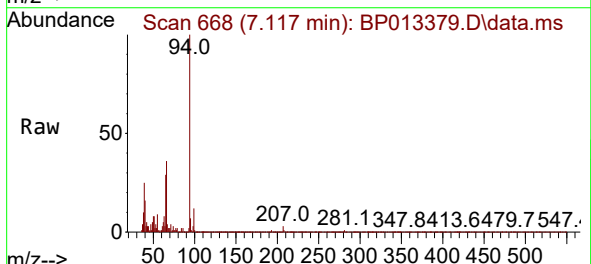
Instrument :
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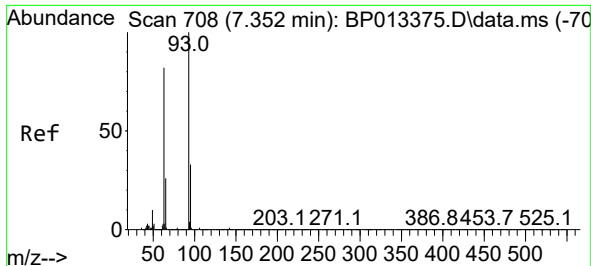
Tgt Ion: 77 Resp: 84201
Ion Ratio Lower Upper
77 100
105 95.1 81.5 122.3
106 88.3 76.9 115.3



#8
Phenol
Concen: 4.629 ng/ul
RT: 7.117 min Scan# 668
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion: 94 Resp: 190988
Ion Ratio Lower Upper
94 100
65 28.9 21.1 31.7
66 36.5 27.0 40.6

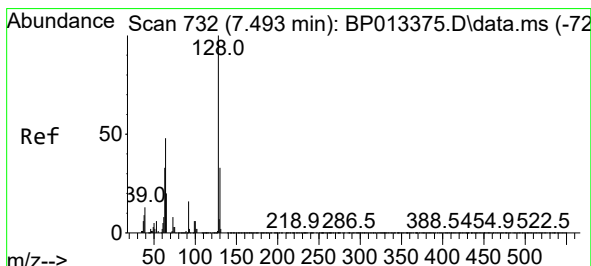
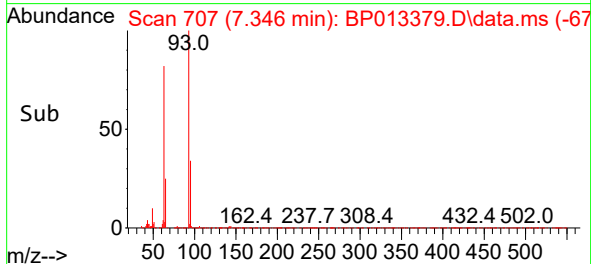
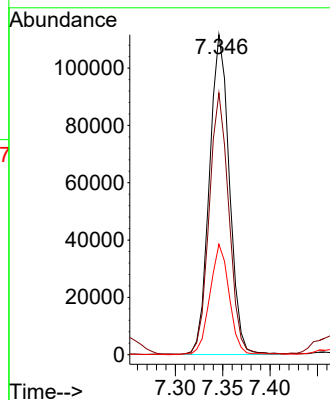
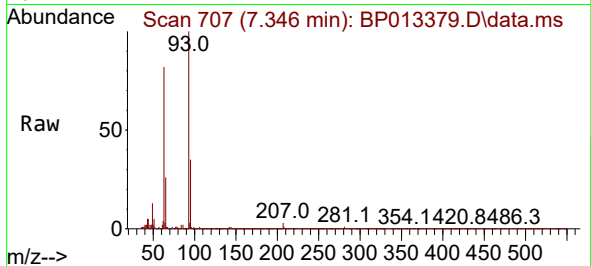




#10
Bis(2-Chloroethyl)ether
Concen: 4.822 ng/ul
RT: 7.346 min Scan# 708
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

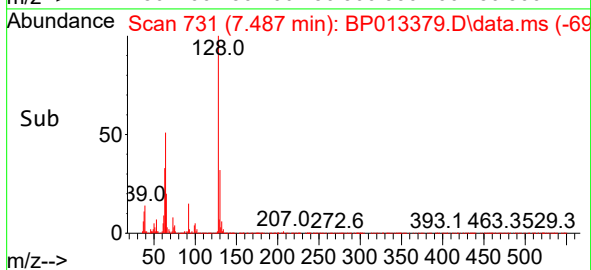
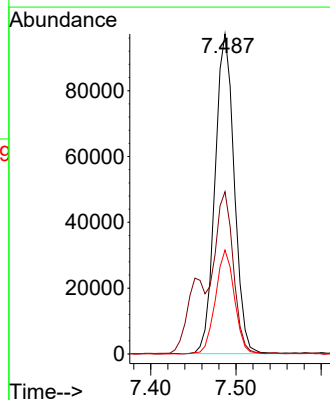
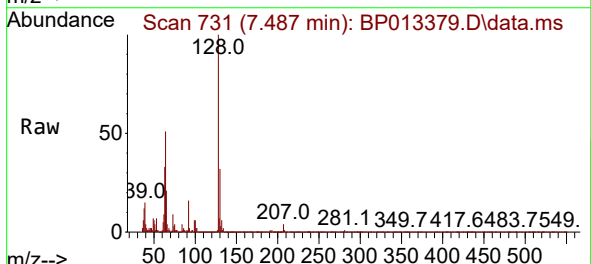
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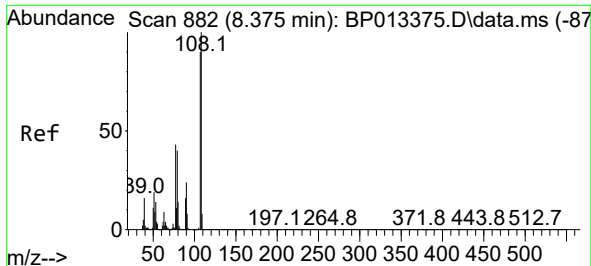
Tgt Ion: 93 Resp: 163313
Ion Ratio Lower Upper
93 100
63 81.8 59.8 89.8
95 34.5 26.4 39.6



#12
2-Chlorophenol
Concen: 4.617 ng/ul
RT: 7.487 min Scan# 731
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion: 128 Resp: 152104
Ion Ratio Lower Upper
128 100
64 50.7 34.9 52.3
130 32.5 25.8 38.6





#13

2-Methylphenol

Concen: 4.050 ng/ul

RT: 8.369 min Scan# 881

Delta R.T. -0.012 min

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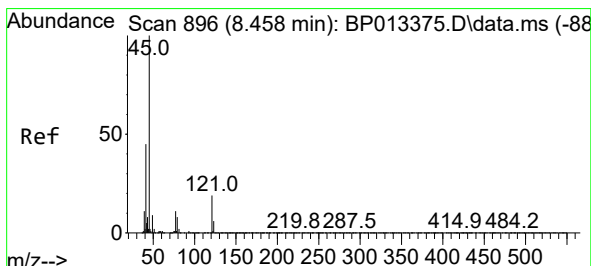
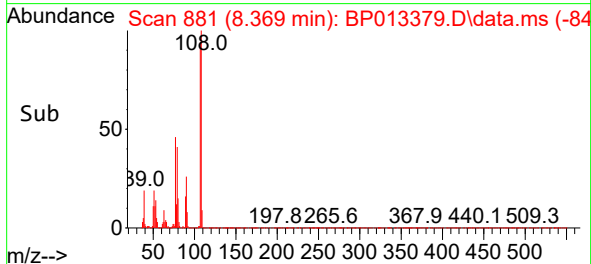
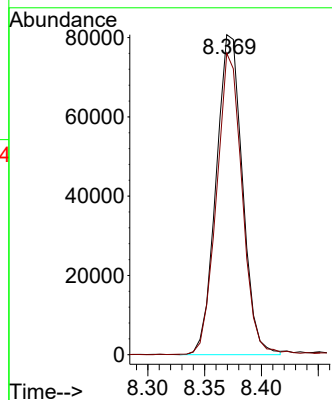
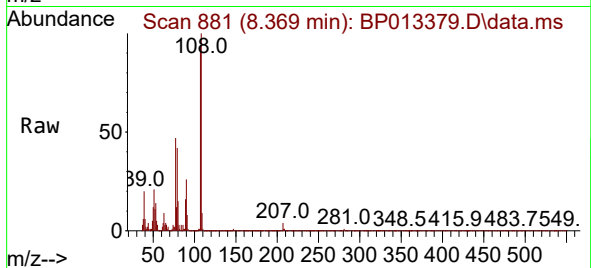
MDL-SOIL-QT4-2022-07

Tgt Ion:108 Resp: 130300

Ion Ratio Lower Upper

108 100

107 94.2 69.1 103.7



#14

2,2'-oxybis(1-Chloropropane)

Concen: 5.636 ng/ul

RT: 8.464 min Scan# 897

Delta R.T. 0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

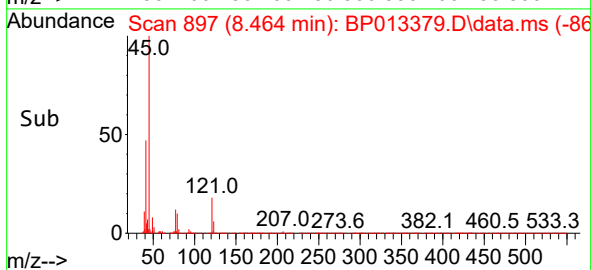
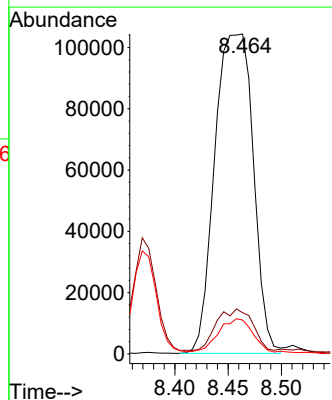
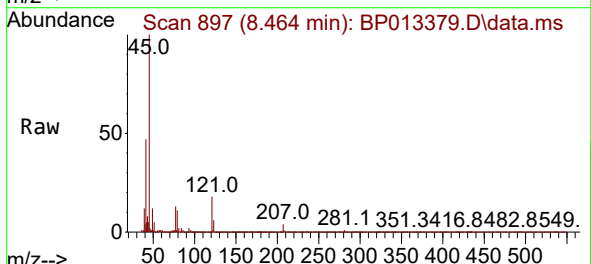
Tgt Ion: 45 Resp: 261939

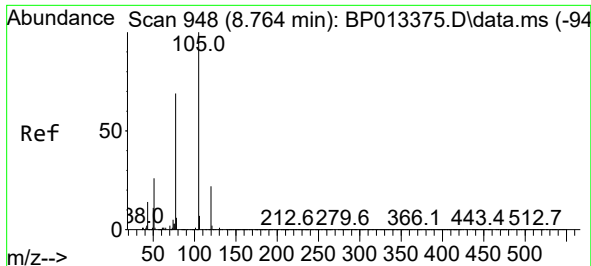
Ion Ratio Lower Upper

45 100

77 12.9 11.0 16.6

79 10.6 9.3 13.9

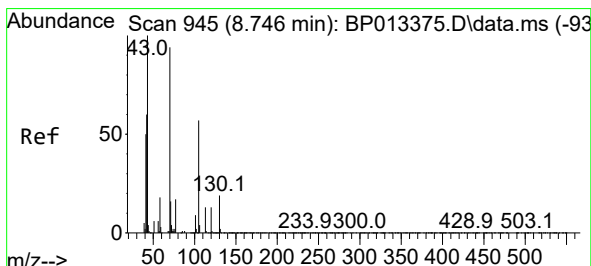
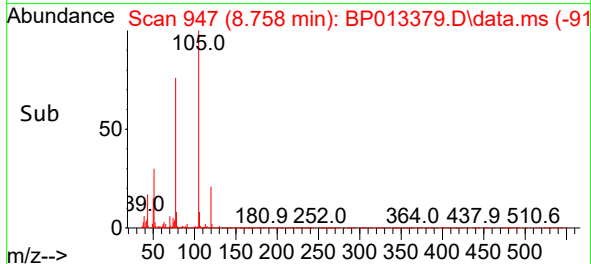
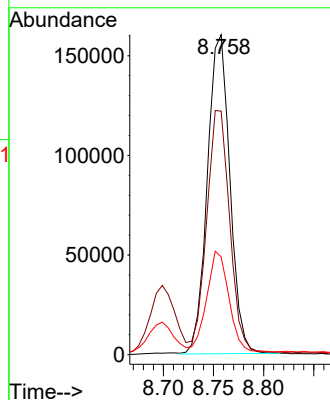
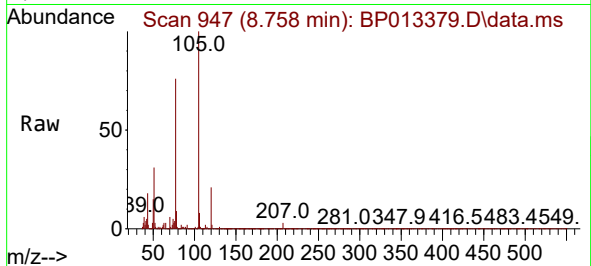




#16
Acetophenone
Concen: 4.895 ng/ul
RT: 8.758 min Scan# 948
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

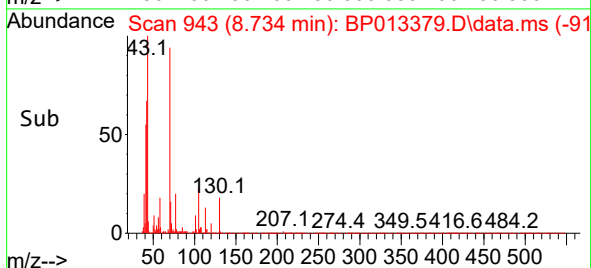
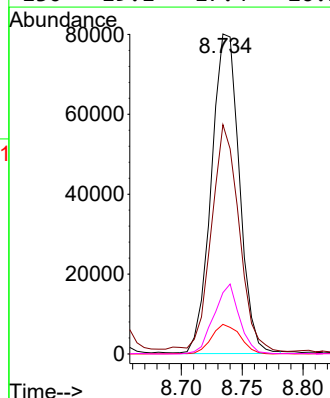
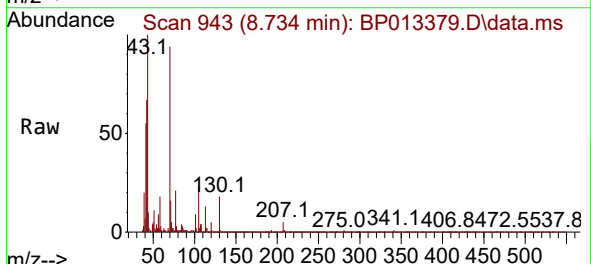
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

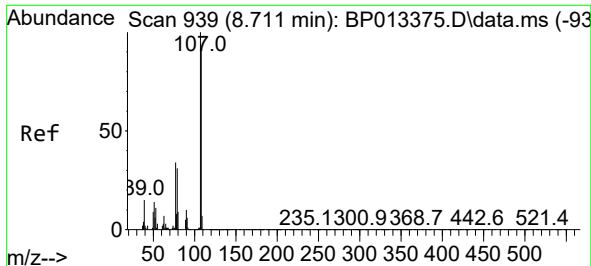
Tgt Ion:105 Resp: 250992
Ion Ratio Lower Upper
105 100
77 76.1 59.3 88.9
51 30.6 19.6 29.4#



#17
N-Nitroso-di-n-propylamine
Concen: 4.974 ng/ul
RT: 8.734 min Scan# 943
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion: 70 Resp: 128246
Ion Ratio Lower Upper
70 100
42 71.6 45.5 68.3#
101 9.2 7.9 11.9
130 19.1 17.4 26.2

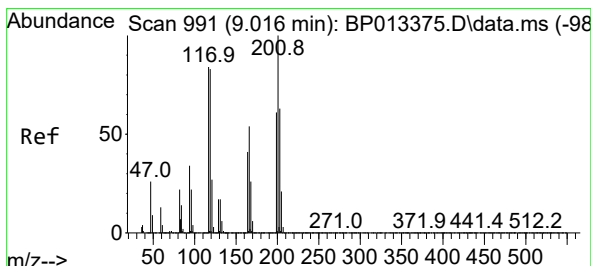
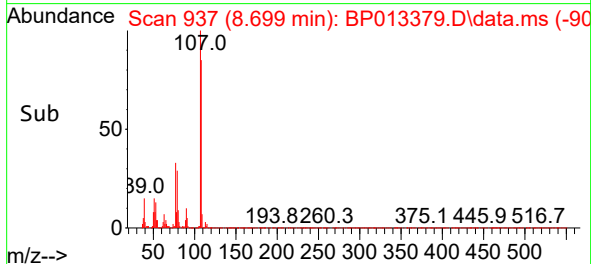
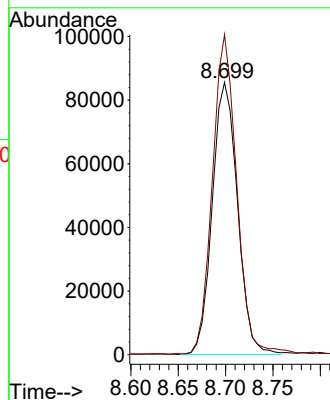
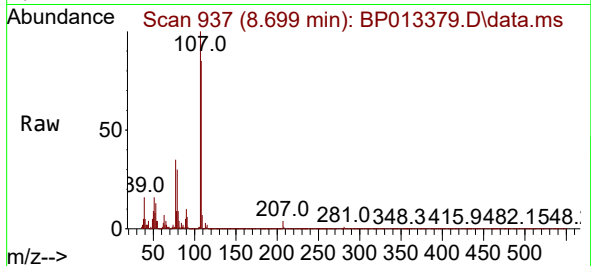




#18
4-Methylphenol
Concen: 4.449 ng/ul
RT: 8.699 min Scan# 91
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

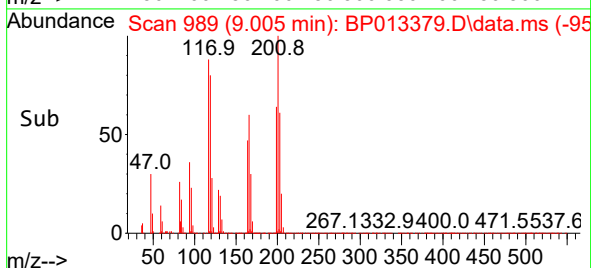
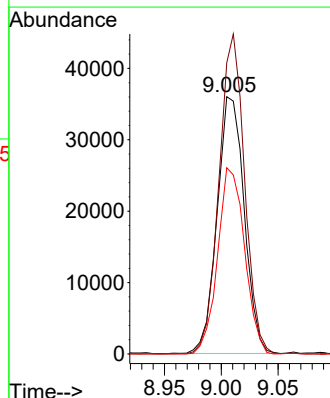
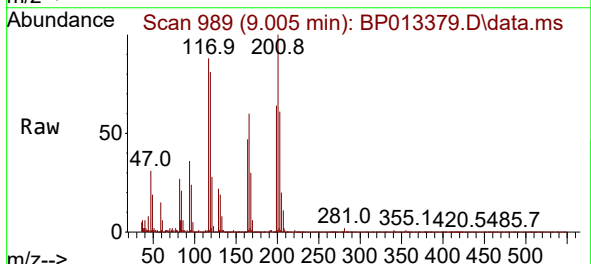
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

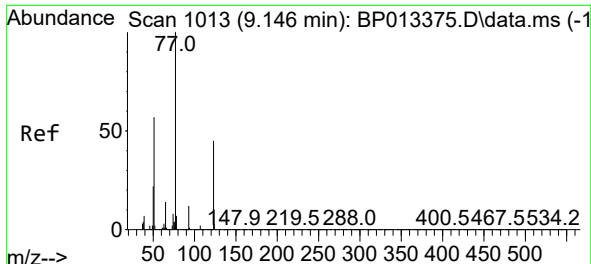
Tgt Ion:108 Resp: 158513
Ion Ratio Lower Upper
108 100
107 117.5 87.4 131.2



#19
Hexachloroethane
Concen: 4.523 ng/ul
RT: 9.005 min Scan# 989
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:117 Resp: 59547
Ion Ratio Lower Upper
117 100
201 113.2 93.7 140.5
199 72.4 58.6 88.0





#22

Nitrobenzene

Concen: 4.984 ng/ul

RT: 9.134 min Scan# 1101

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

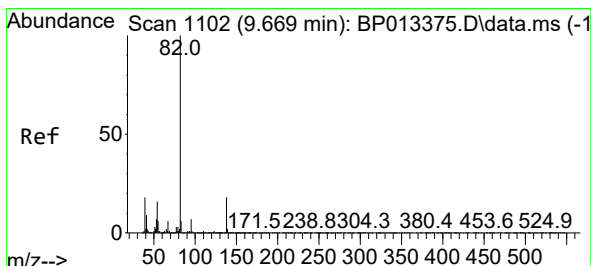
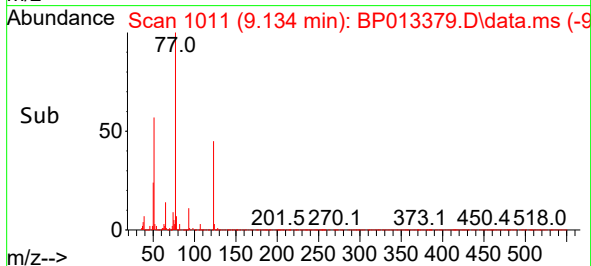
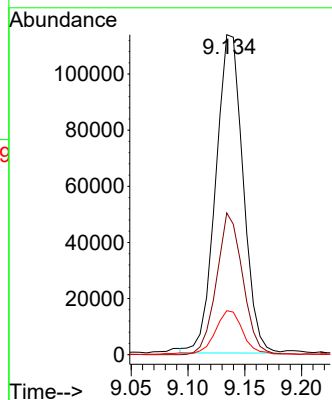
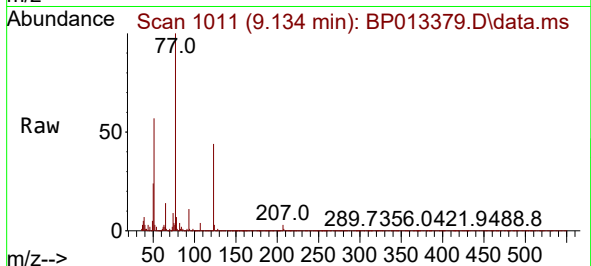
Tgt Ion: 77 Resp: 190597

Ion Ratio Lower Upper

77 100

123 44.3 38.3 57.5

65 13.8 10.3 15.5



#23

Isophorone

Concen: 4.423 ng/ul

RT: 9.663 min Scan# 1101

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

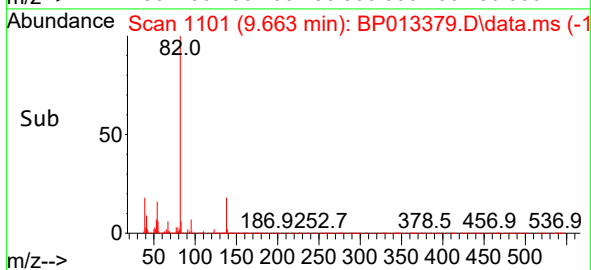
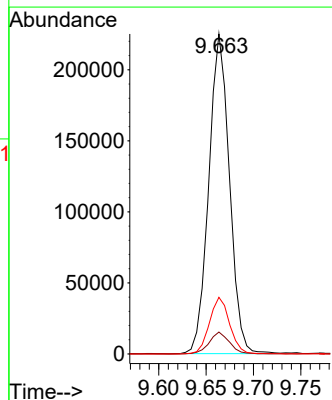
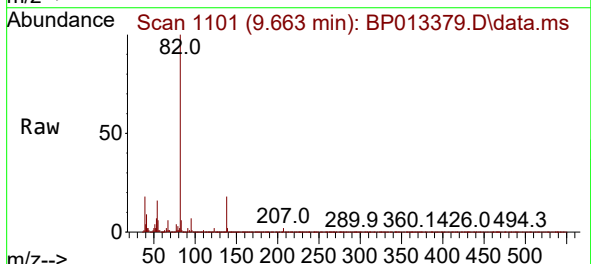
Tgt Ion: 82 Resp: 342017

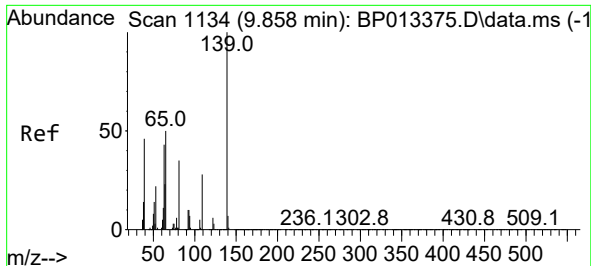
Ion Ratio Lower Upper

82 100

95 6.9 5.4 8.2

138 17.7 15.3 22.9

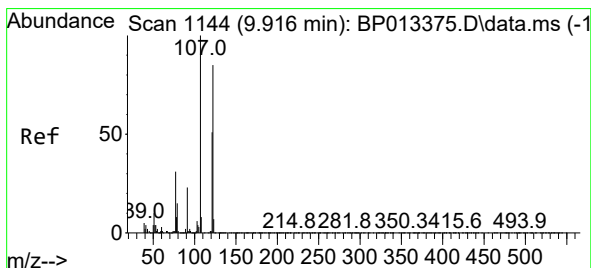
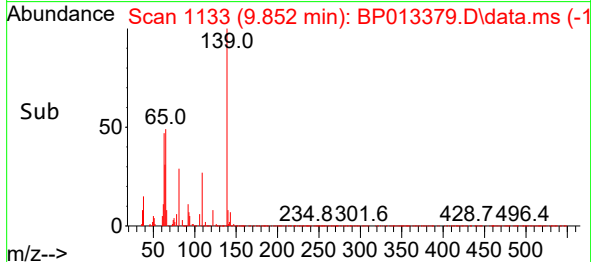
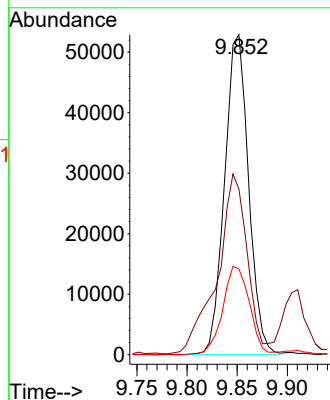
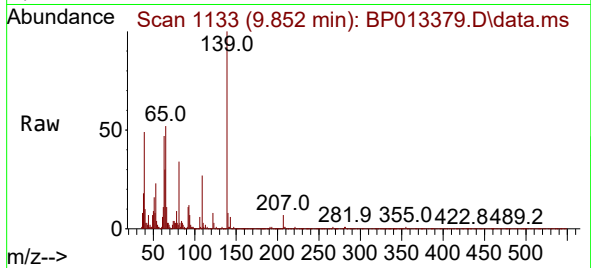




#25
2-Nitrophenol
Concen: 4.417 ng/ul
RT: 9.852 min Scan# 1133
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

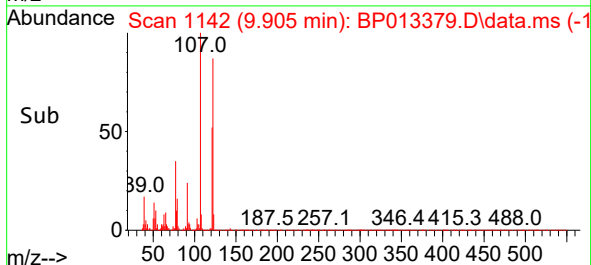
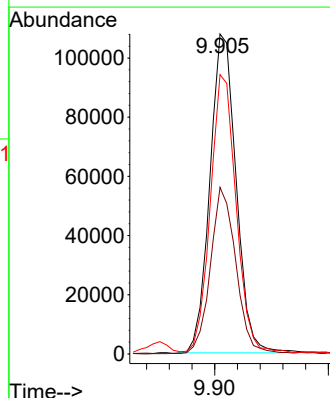
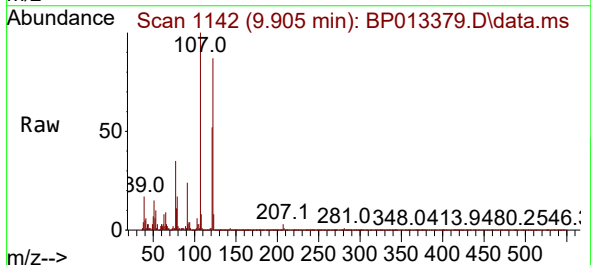
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

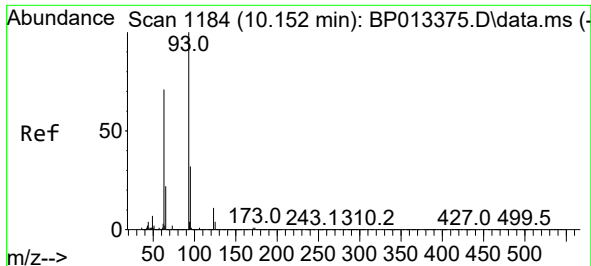
Tgt Ion:139 Resp: 87805
Ion Ratio Lower Upper
139 100
65 51.7 36.6 54.8
109 26.8 21.6 32.4



#26
2,4-Dimethylphenol
Concen: 4.447 ng/ul
RT: 9.905 min Scan# 1142
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:107 Resp: 172476
Ion Ratio Lower Upper
107 100
121 52.0 41.8 62.6
122 87.3 72.6 108.8

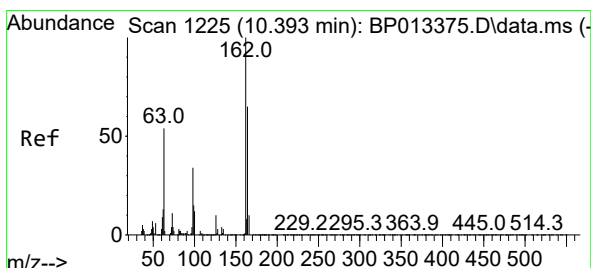
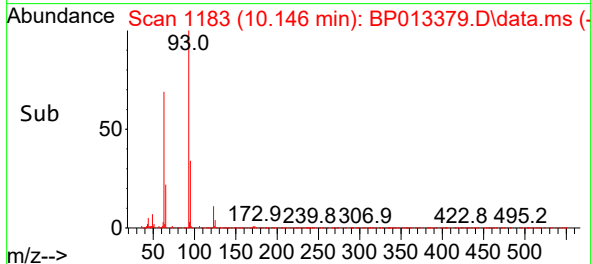
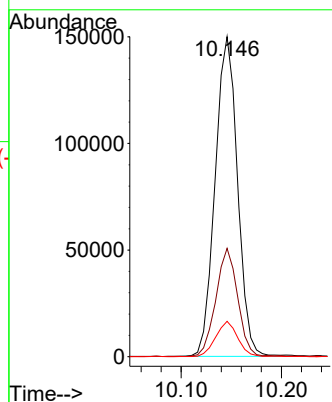
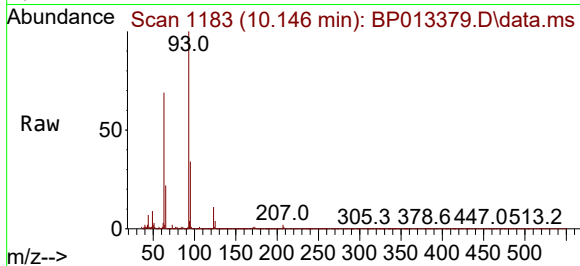




#27
 Bis(2-Chloroethoxy)methane
 Concen: 4.690 ng/ul
 RT: 10.146 min Scan# 1183
 Delta R.T. -0.006 min
 Lab File: BP013379.D
 Acq: 03 Jan 2023 15:49

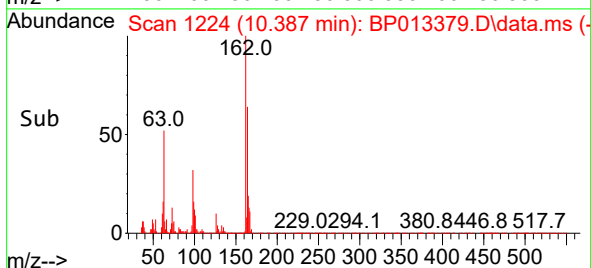
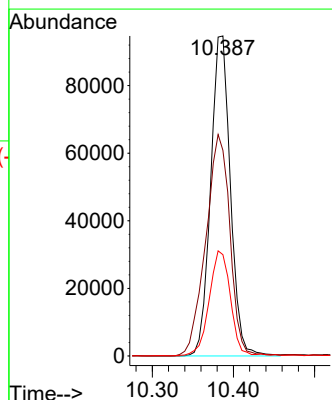
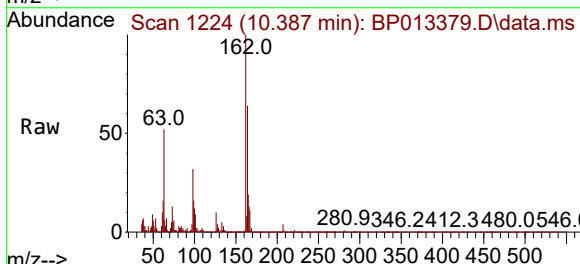
Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT4-2022-07

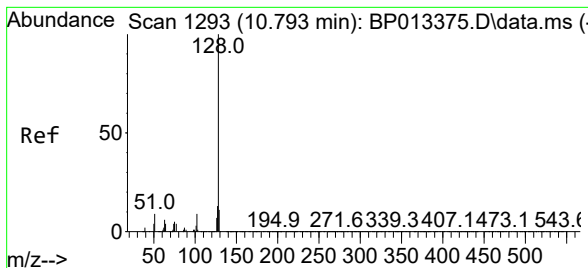
Tgt Ion: 93 Resp: 231873
 Ion Ratio Lower Upper
 93 100
 95 33.8 26.0 39.0
 123 11.0 9.2 13.8



#29
 2,4-Dichlorophenol
 Concen: 4.582 ng/ul
 RT: 10.387 min Scan# 1224
 Delta R.T. -0.006 min
 Lab File: BP013379.D
 Acq: 03 Jan 2023 15:49

Tgt Ion: 162 Resp: 159974
 Ion Ratio Lower Upper
 162 100
 164 64.3 52.5 78.7
 98 31.7 26.6 39.8





#30

Naphthalene

Concen: 4.694 ng/ul

RT: 10.787 min Scan# 1292

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

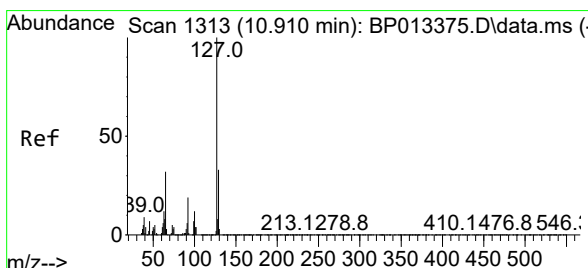
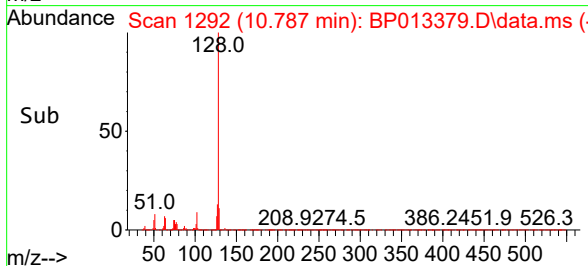
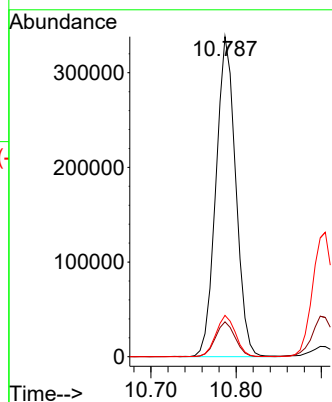
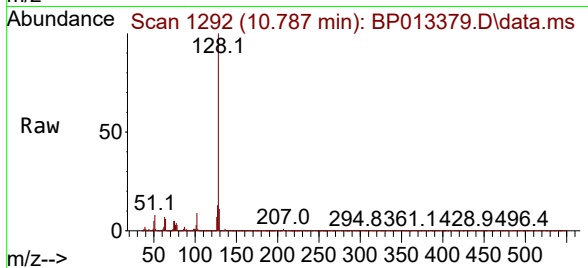
Tgt Ion:128 Resp: 544509

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

127 12.9 10.4 15.6



#32

4-Chloroaniline

Concen: 4.542 ng/ul

RT: 10.905 min Scan# 1312

Delta R.T. -0.006 min

Lab File: BP013379.D

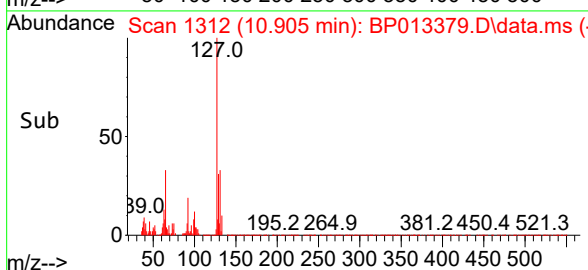
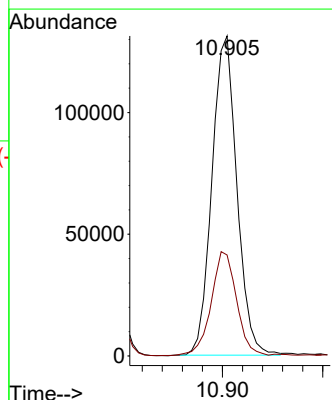
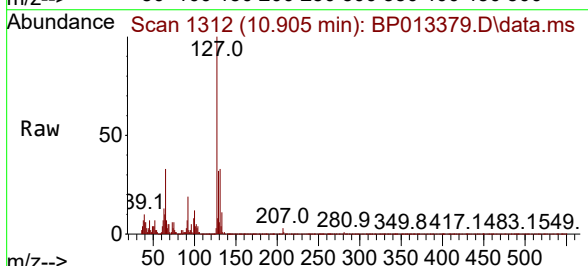
Acq: 03 Jan 2023 15:49

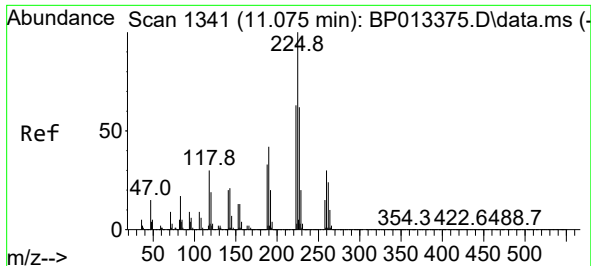
Tgt Ion:127 Resp: 226136

Ion Ratio Lower Upper

127 100

129 31.6 25.6 38.4

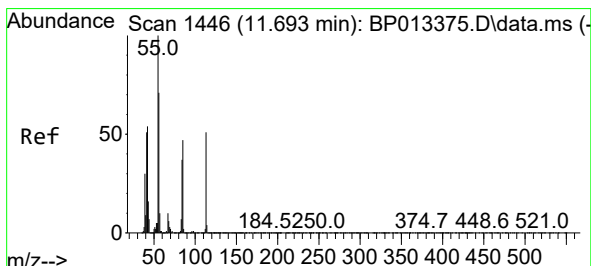
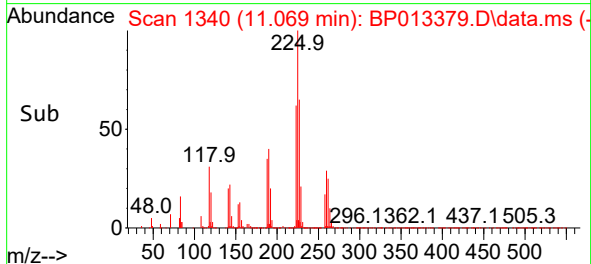
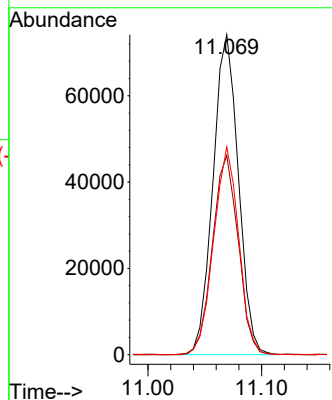
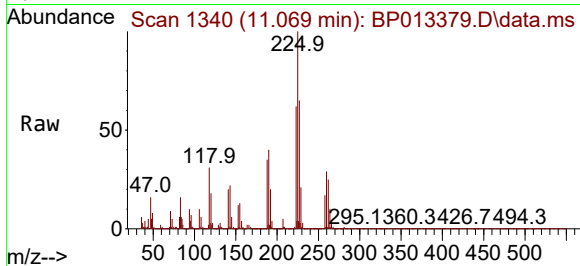




#33
Hexachlorobutadiene
Concen: 4.799 ng/ul
RT: 11.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

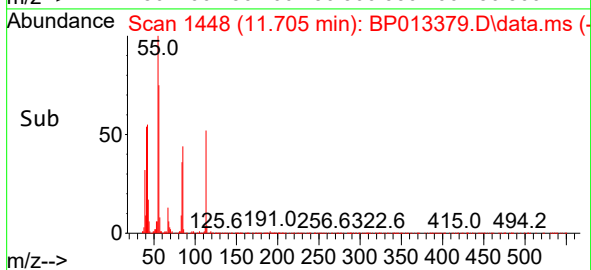
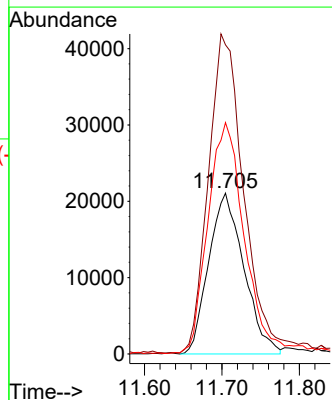
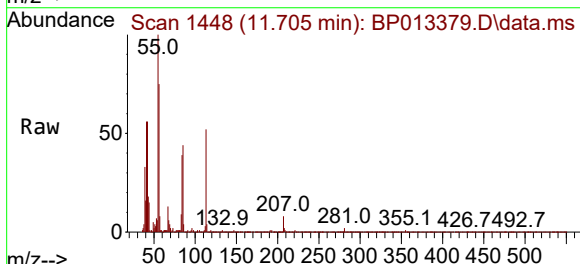
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

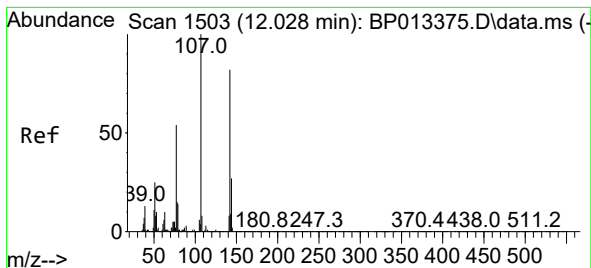
Tgt Ion:225 Resp: 115034
Ion Ratio Lower Upper
225 100
223 62.3 49.2 73.8
227 64.9 50.2 75.2



#34
Caprolactam
Concen: 5.593 ng/ul
RT: 11.705 min Scan# 1448
Delta R.T. 0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:113 Resp: 66573
Ion Ratio Lower Upper
113 100
55 192.2 141.9 212.9
56 143.8 99.6 149.4

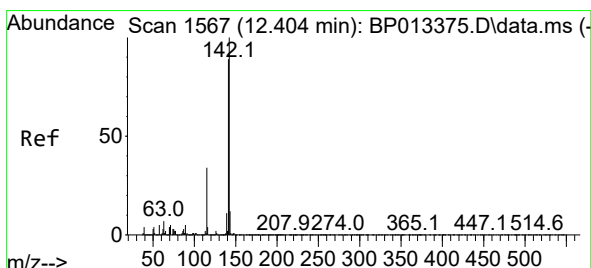
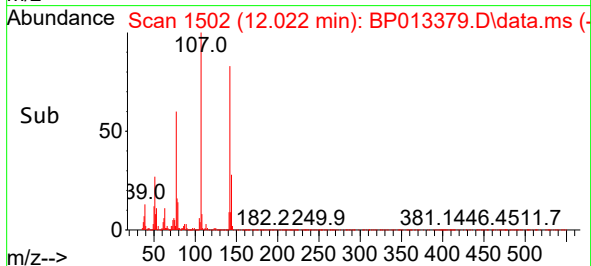
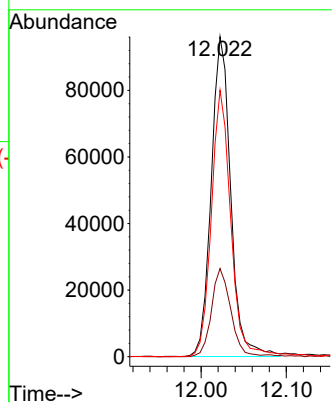
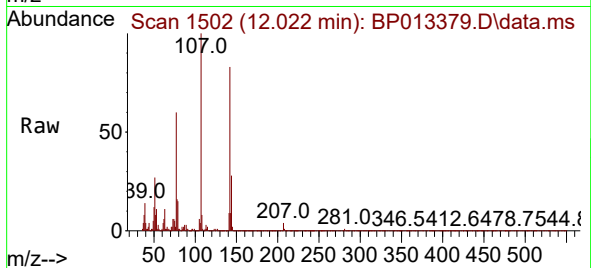




#35
4-Chloro-3-methylphenol
Concen: 4.286 ng/ul
RT: 12.022 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

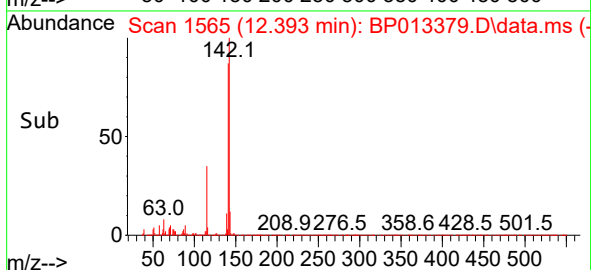
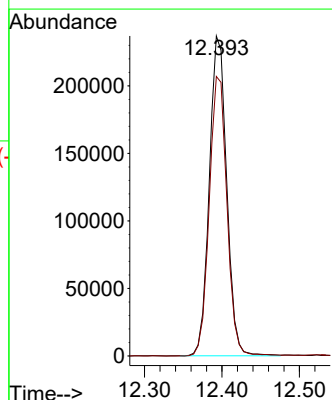
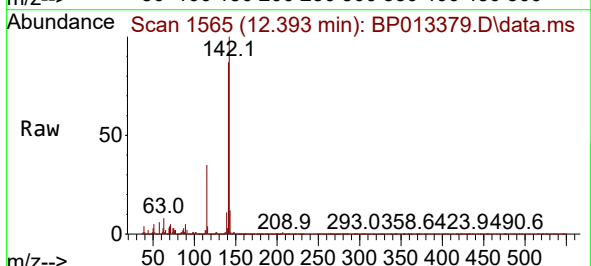
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

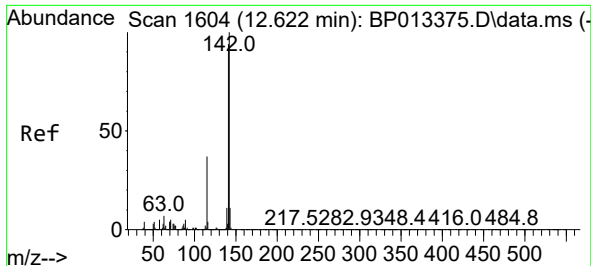
Tgt Ion:107 Resp: 152704
Ion Ratio Lower Upper
107 100
144 27.5 21.4 32.2
142 83.3 65.8 98.6



#36
2-Methylnaphthalene
Concen: 4.630 ng/ul
RT: 12.393 min Scan# 1565
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:142 Resp: 368458
Ion Ratio Lower Upper
142 100
141 87.3 70.8 106.2

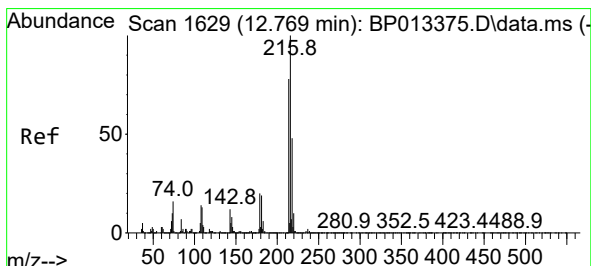
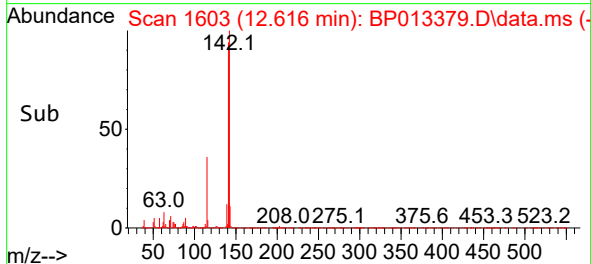
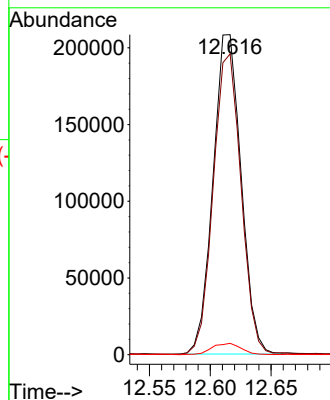
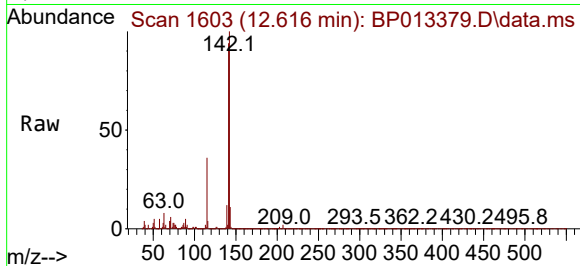




#37
1-Methylnaphthalene
Concen: 4.086 ng/ul
RT: 12.616 min Scan# 1603
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

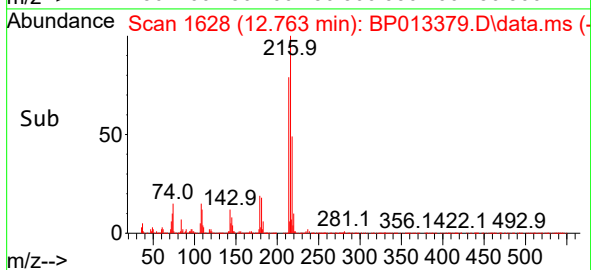
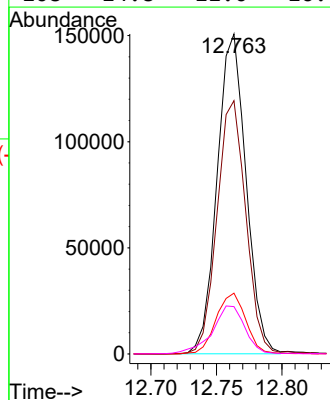
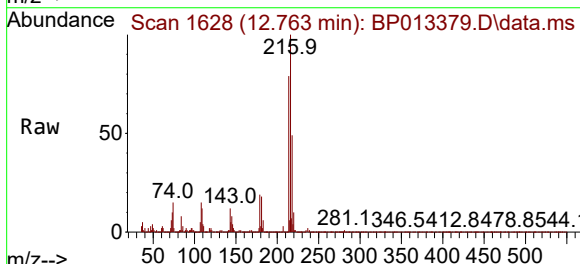
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

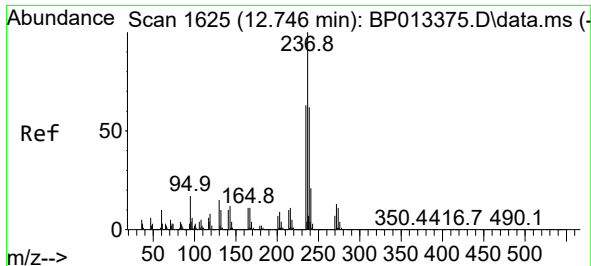
Tgt Ion:142 Resp: 334415
Ion Ratio Lower Upper
142 100
141 94.0 72.7 109.1
116 3.6 2.7 4.1



#39
1,2,4,5-Tetrachlorobenzene
Concen: 4.463 ng/ul
RT: 12.763 min Scan# 1628
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:216 Resp: 230588
Ion Ratio Lower Upper
216 100
214 79.2 61.9 92.9
179 19.0 15.0 22.6
108 14.8 11.0 16.4

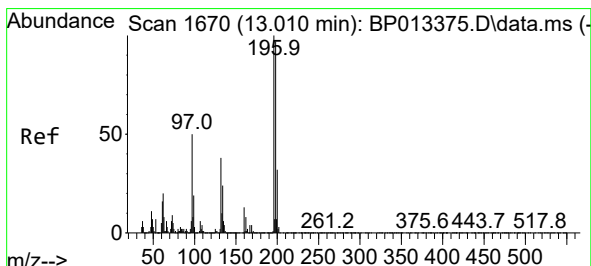
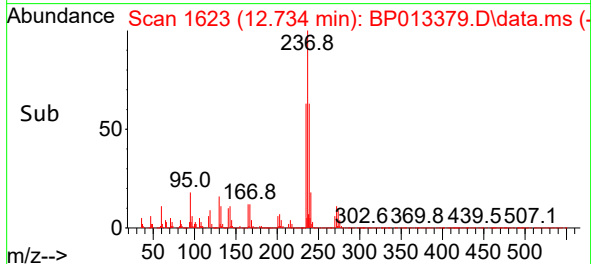
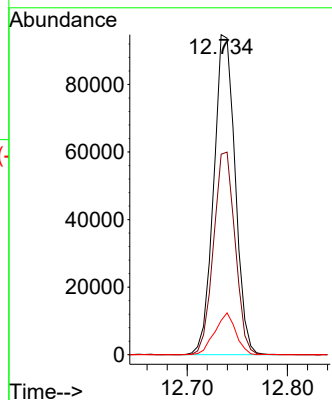
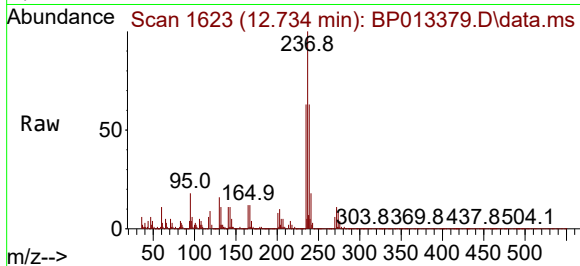




#40
Hexachlorocyclopentadiene
Concen: 4.177 ng/ul
RT: 12.734 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

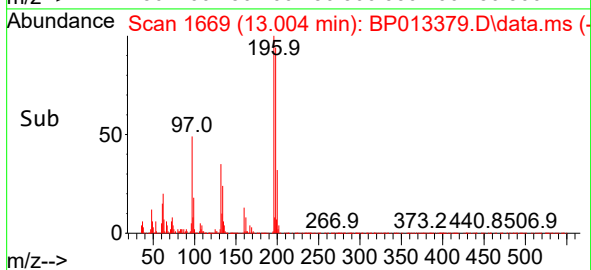
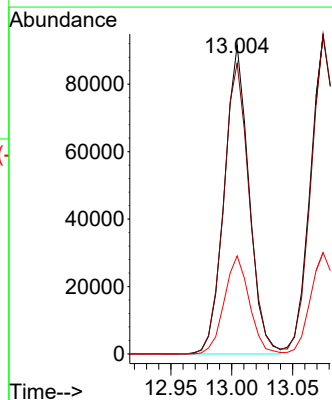
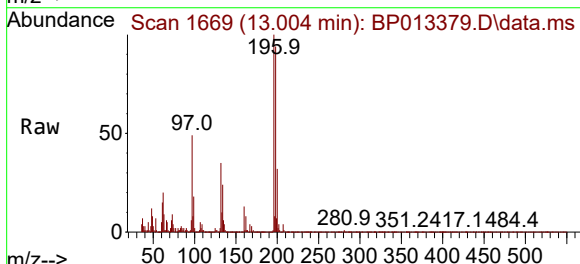
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

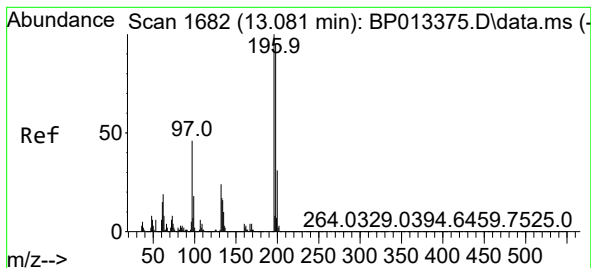
Tgt Ion:237 Resp: 140460
Ion Ratio Lower Upper
237 100
235 62.7 49.7 74.5
272 10.7 10.8 16.2#



#41
2,4,6-Trichlorophenol
Concen: 3.879 ng/ul
RT: 13.004 min Scan# 1669
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:196 Resp: 128794
Ion Ratio Lower Upper
196 100
198 94.1 77.0 115.6
200 31.8 25.3 37.9





#42

2,4,5-Trichlorophenol

Concen: 4.102 ng/ul

RT: 13.075 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

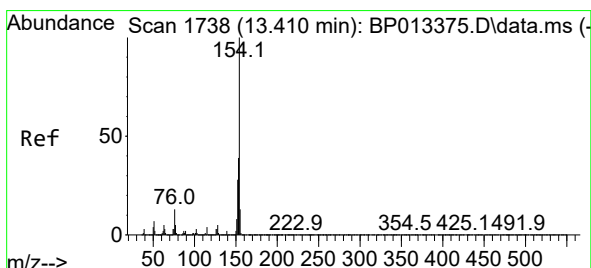
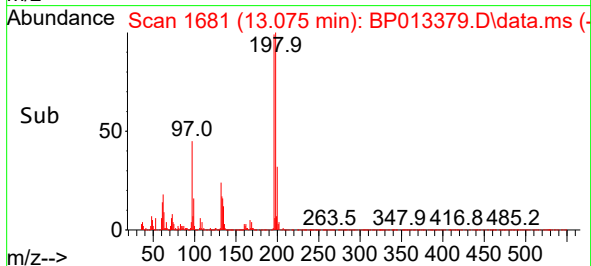
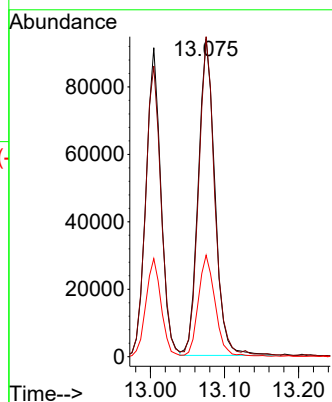
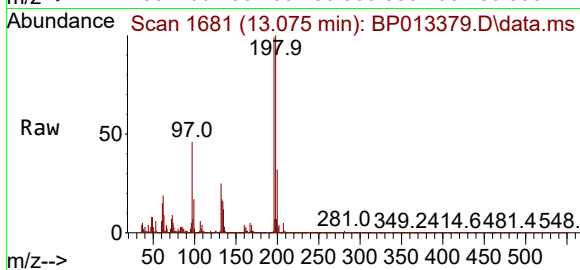
Tgt Ion:196 Resp: 146308

Ion Ratio Lower Upper

196 100

198 100.7 77.1 115.7

200 31.9 25.4 38.2



#43

1,1'-Biphenyl

Concen: 4.444 ng/ul

RT: 13.404 min Scan# 1737

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

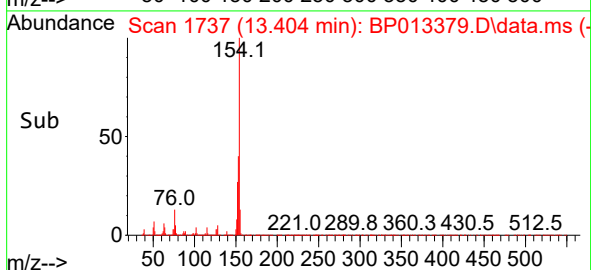
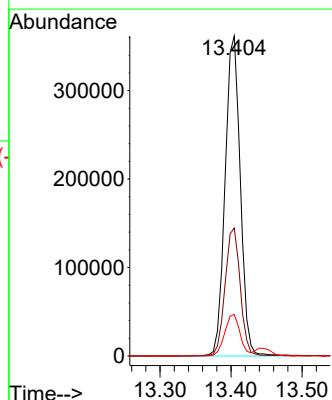
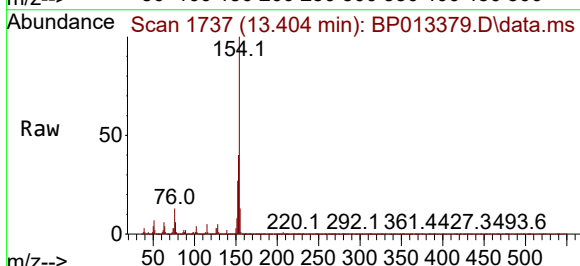
Tgt Ion:154 Resp: 535578

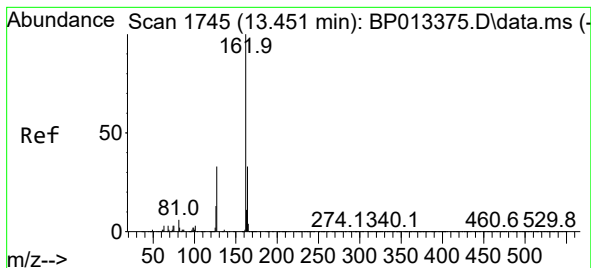
Ion Ratio Lower Upper

154 100

153 40.0 31.5 47.3

76 13.0 9.6 14.4





#44

2-Chloronaphthalene

Concen: 4.417 ng/ul

RT: 13.446 min Scan# 1744

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

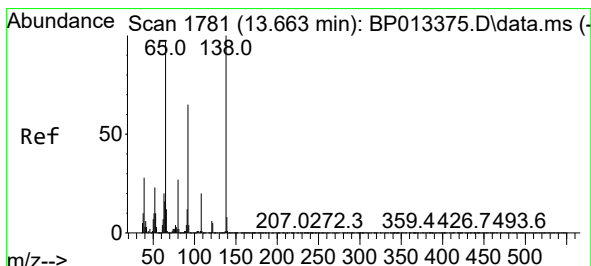
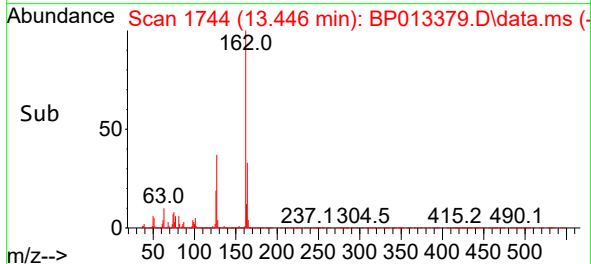
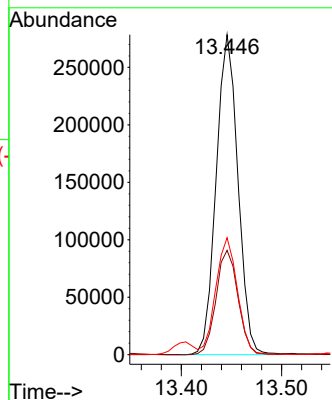
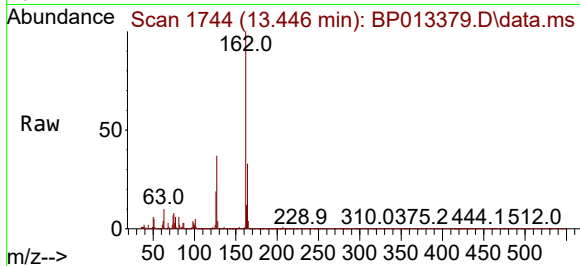
Tgt Ion:162 Resp: 418934

Ion Ratio Lower Upper

162 100

164 32.6 26.3 39.5

127 36.5 29.3 43.9



#45

2-Nitroaniline

Concen: 4.020 ng/ul

RT: 13.651 min Scan# 1779

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

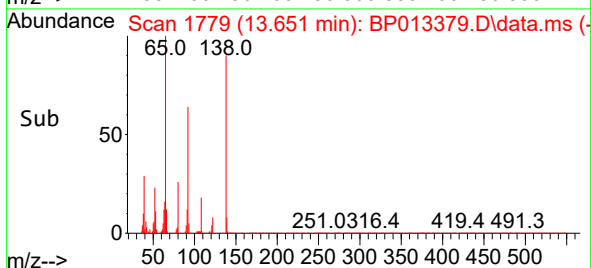
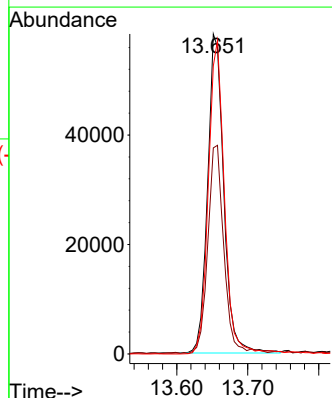
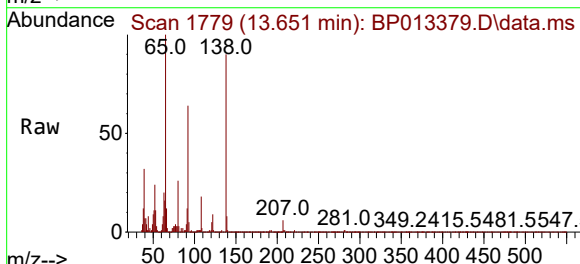
Tgt Ion: 65 Resp: 92451

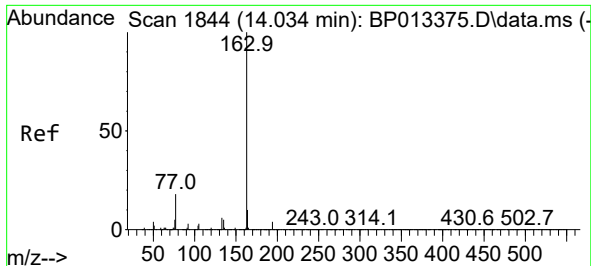
Ion Ratio Lower Upper

65 100

92 64.4 56.4 84.6

138 90.0 90.3 135.5#

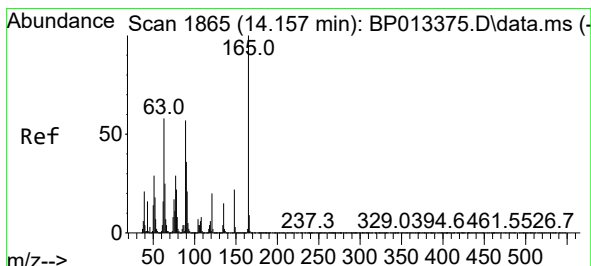
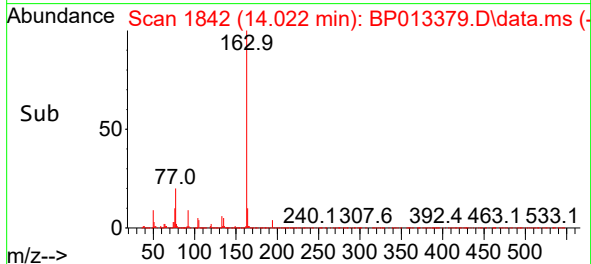
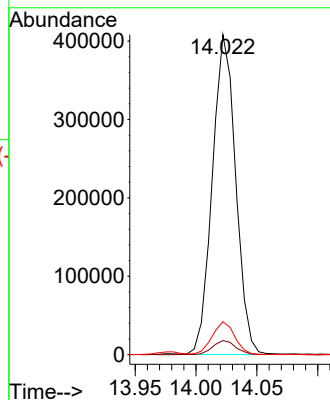
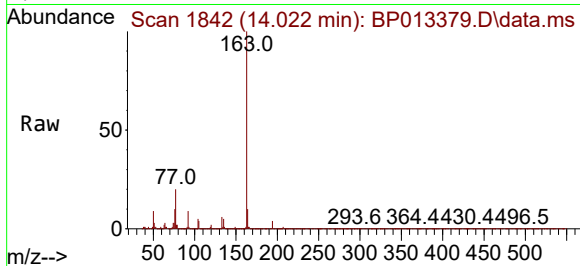




#47
Dimethylphthalate
Concen: 4.456 ng/ul
RT: 14.022 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

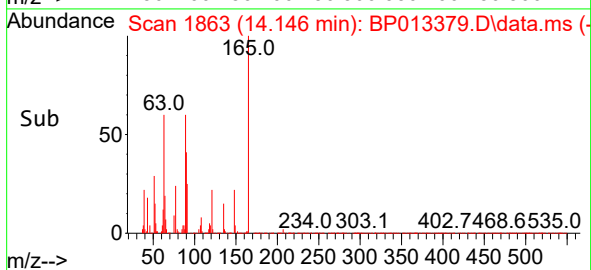
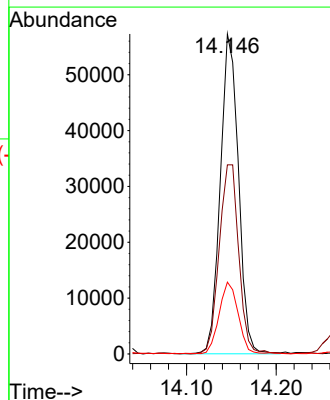
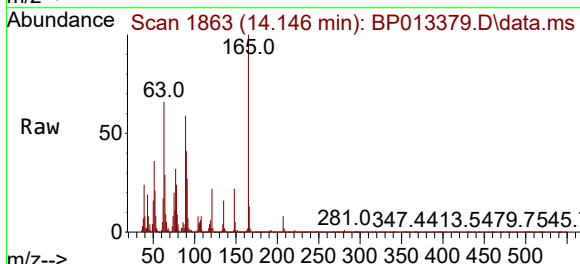
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

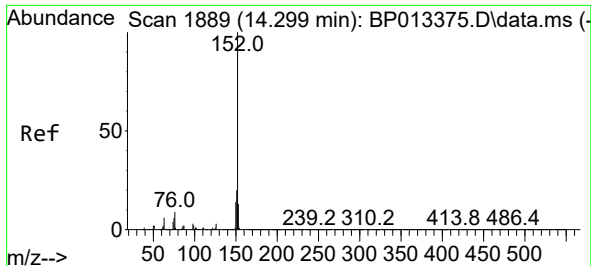
Tgt Ion:163 Resp: 544684
Ion Ratio Lower Upper
163 100
194 4.4 3.4 5.0
164 10.3 8.3 12.5



#48
2,6-Dinitrotoluene
Concen: 3.542 ng/ul
RT: 14.146 min Scan# 1863
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:165 Resp: 80452
Ion Ratio Lower Upper
165 100
89 59.1 43.0 64.4
121 22.5 16.1 24.1

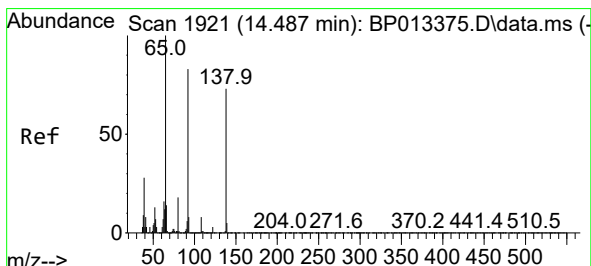
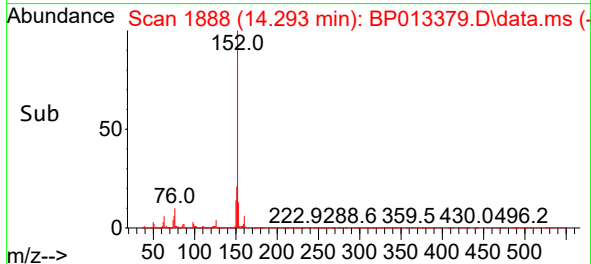
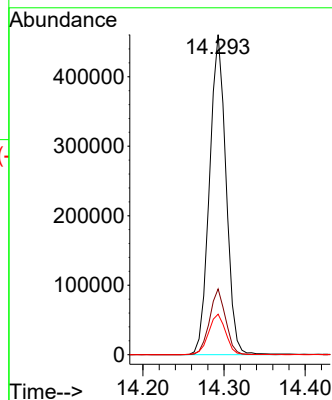
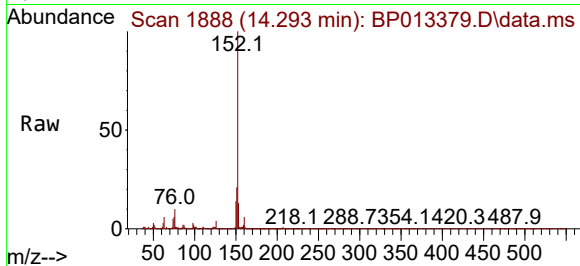




#50
Acenaphthylene
Concen: 4.456 ng/ul
RT: 14.293 min Scan# 1888
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

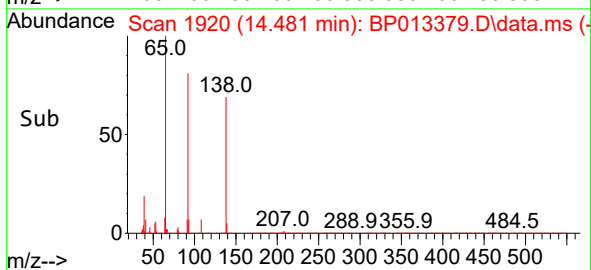
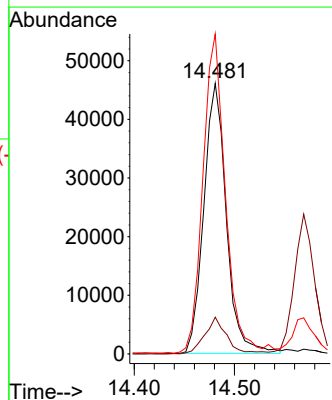
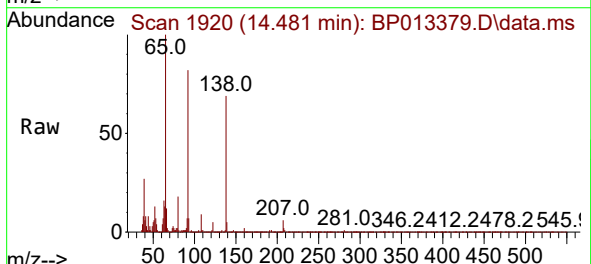
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

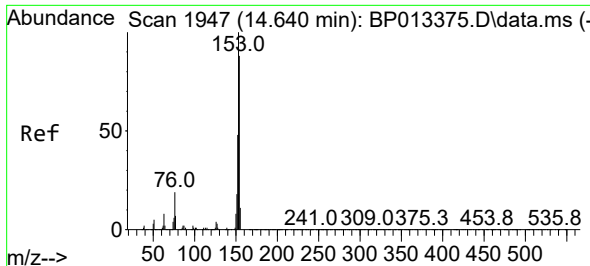
Tgt Ion:152 Resp: 649242
Ion Ratio Lower Upper
152 100
151 20.5 15.8 23.6
153 12.6 10.6 16.0



#51
3-Nitroaniline
Concen: 3.351 ng/ul
RT: 14.481 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:138 Resp: 71875
Ion Ratio Lower Upper
138 100
108 13.6 8.6 13.0#
92 118.2 88.4 132.6

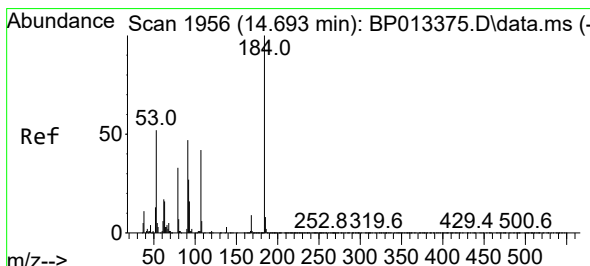
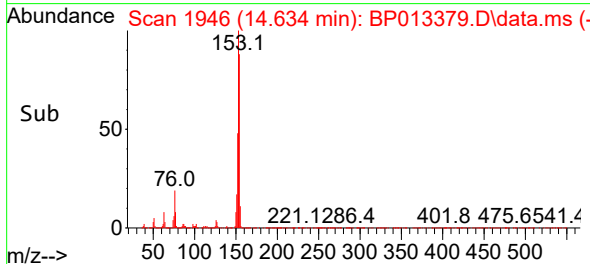
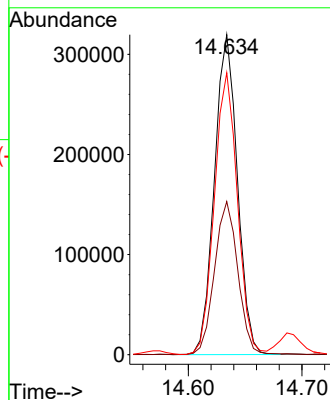
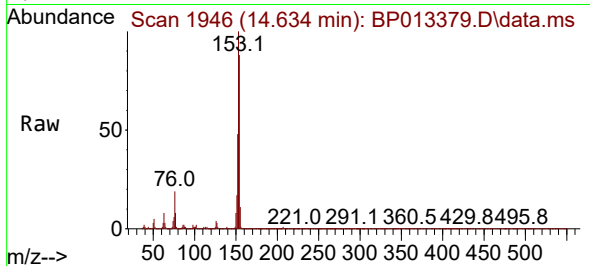




#52
Acenaphthene
Concen: 4.447 ng/ul
RT: 14.634 min Scan# 1946
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

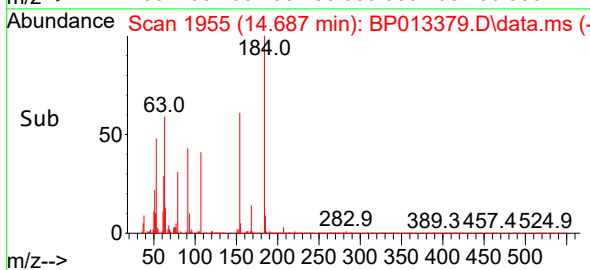
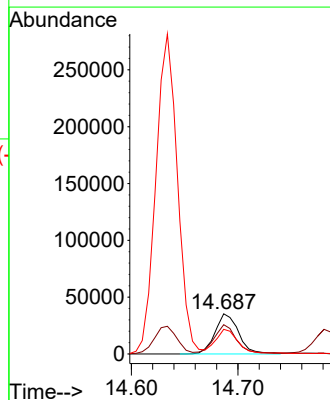
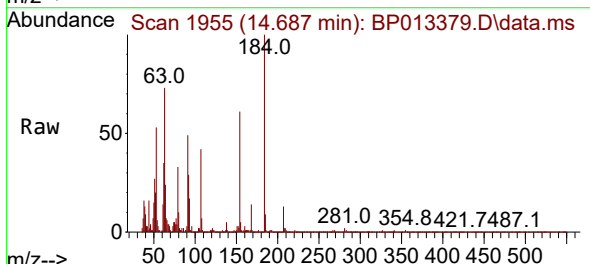
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

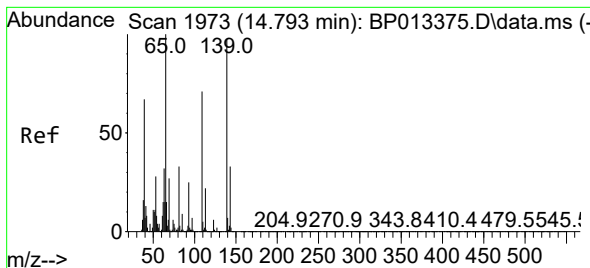
Tgt Ion:153 Resp: 448996
Ion Ratio Lower Upper
153 100
152 47.9 38.2 57.4
154 88.1 70.8 106.2



#53
2,4-Dinitrophenol
Concen: 3.505 ng/ul
RT: 14.687 min Scan# 1955
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:184 Resp: 54428
Ion Ratio Lower Upper
184 100
63 72.7 48.4 72.6#
154 61.2 45.5 68.3





#55

4-Nitrophenol

Concen: 4.243 ng/ul

RT: 14.787 min Scan# 1973

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

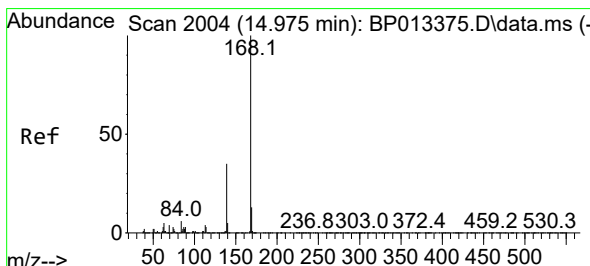
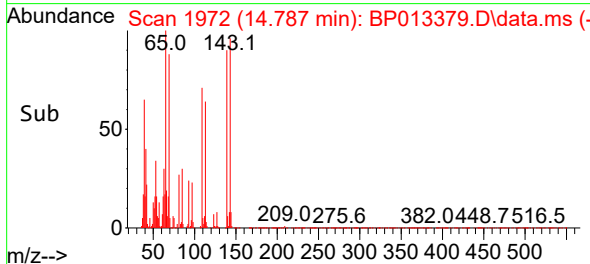
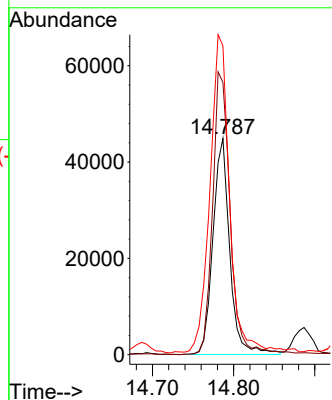
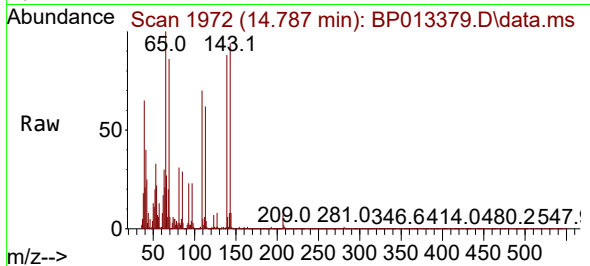
Tgt Ion:109 Resp: 64223

Ion Ratio Lower Upper

109 100

139 125.9 120.8 181.2

65 142.8 107.9 161.9



#56

Dibenzofuran

Concen: 4.633 ng/ul

RT: 14.969 min Scan# 2003

Delta R.T. -0.006 min

Lab File: BP013379.D

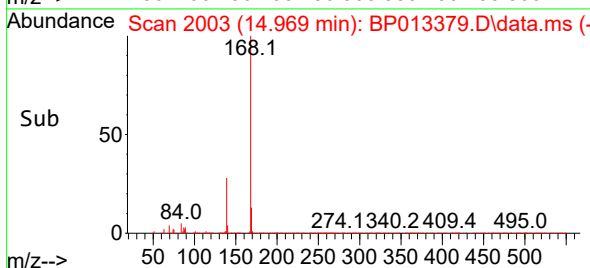
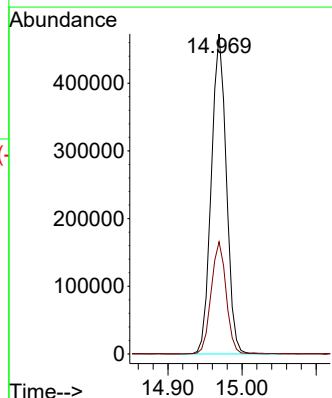
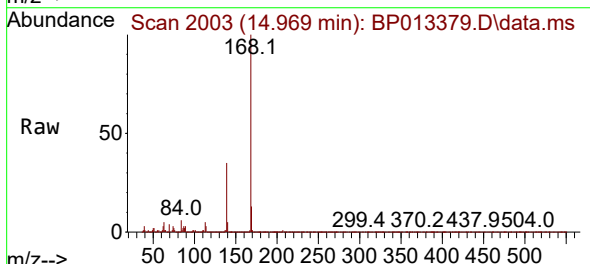
Acq: 03 Jan 2023 15:49

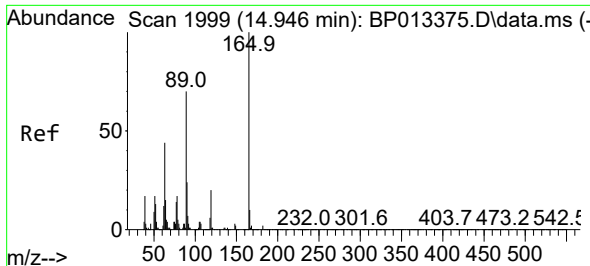
Tgt Ion:168 Resp: 665096

Ion Ratio Lower Upper

168 100

139 35.0 27.9 41.9

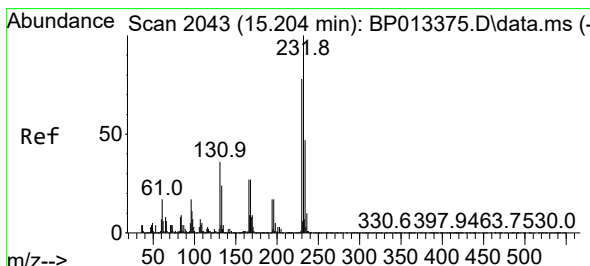
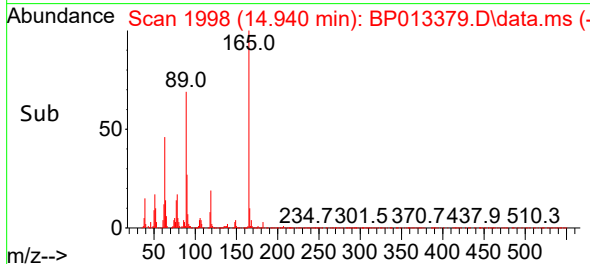
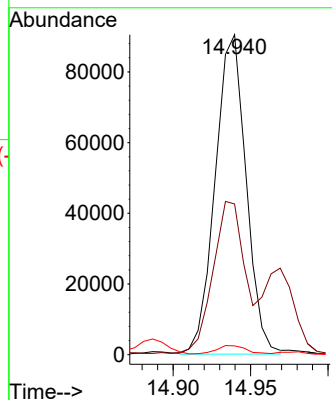
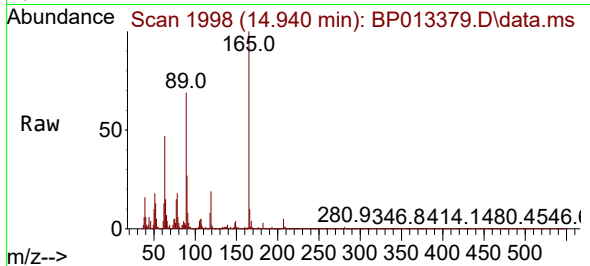




#57
2,4-Dinitrotoluene
Concen: 3.804 ng/ul
RT: 14.940 min Scan# 1999
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

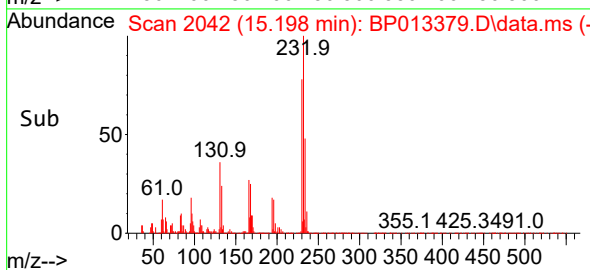
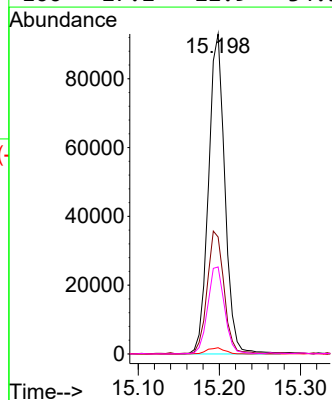
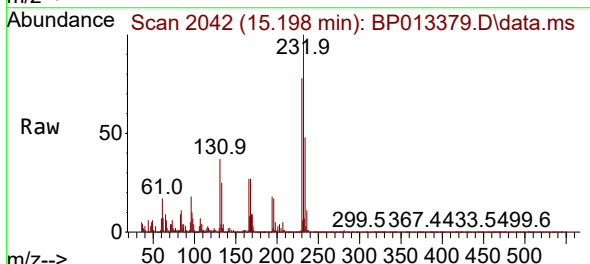
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

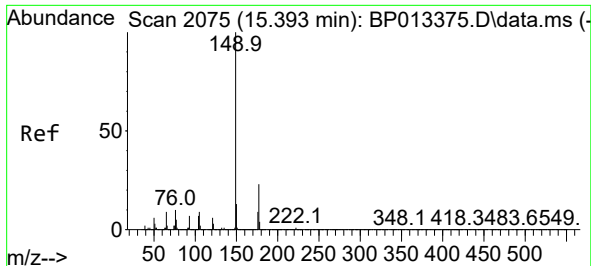
Tgt Ion:165 Resp: 125506
Ion Ratio Lower Upper
165 100
63 47.1 31.8 47.6
182 2.8 2.1 3.1



#58
2,3,4,6-Tetrachlorophenol
Concen: 3.996 ng/ul
RT: 15.198 min Scan# 2042
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:232 Resp: 130085
Ion Ratio Lower Upper
232 100
131 36.5 31.8 47.6
130 1.9 1.8 2.6
166 27.2 22.9 34.3

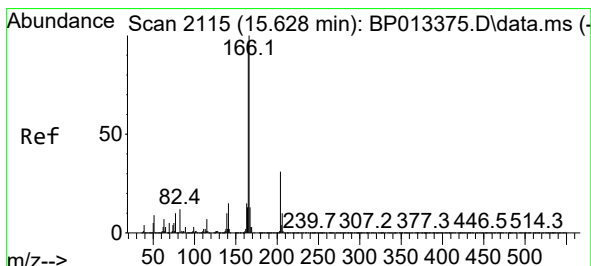
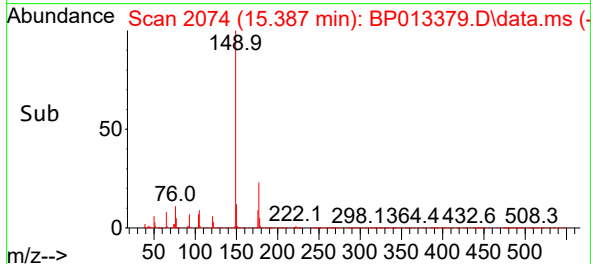
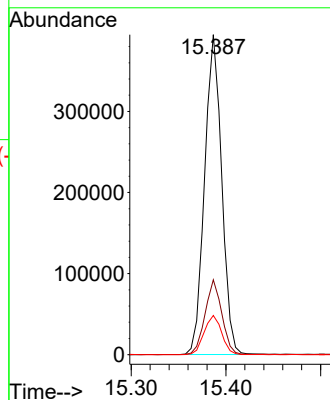
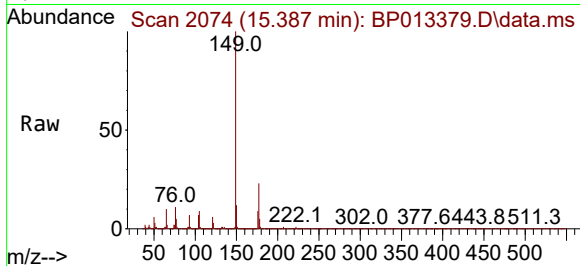




#59
Diethylphthalate
Concen: 4.159 ng/ul
RT: 15.387 min Scan# 2074
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

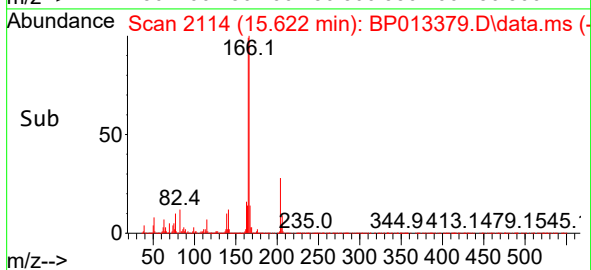
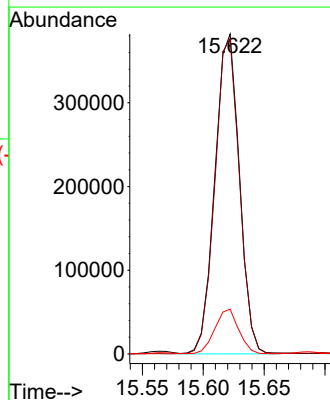
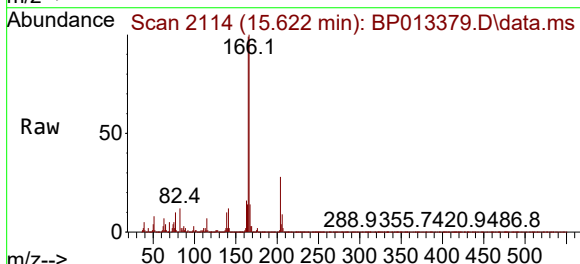
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

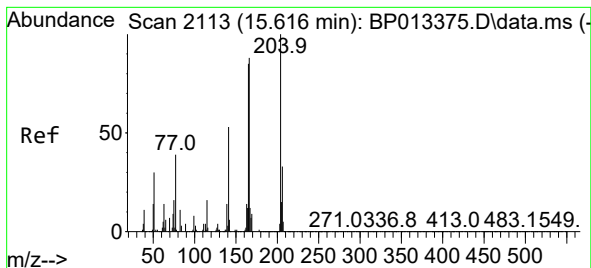
Tgt Ion:149 Resp: 494156
Ion Ratio Lower Upper
149 100
177 23.4 18.4 27.6
150 12.3 9.9 14.9



#61
Fluorene
Concen: 4.646 ng/ul
RT: 15.622 min Scan# 2114
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:166 Resp: 534818
Ion Ratio Lower Upper
166 100
165 98.5 77.4 116.2
167 14.0 10.6 16.0

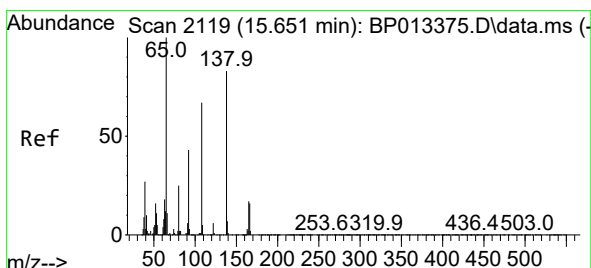
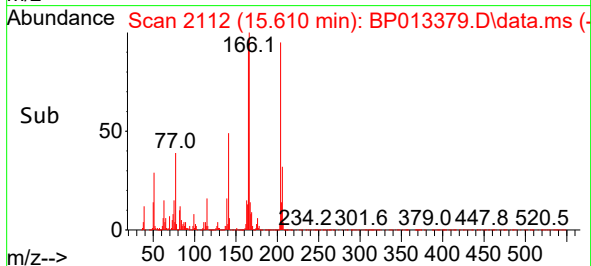
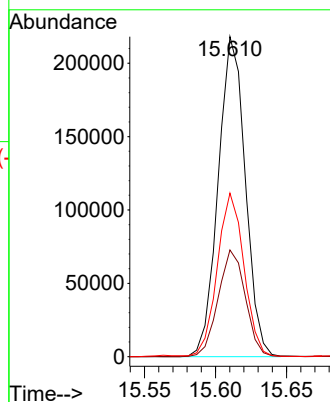
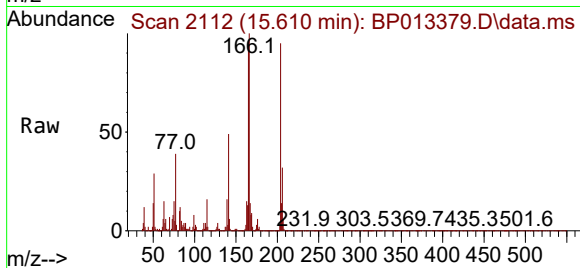




#62
4-Chlorophenyl-phenylether
Concen: 4.749 ng/ul
RT: 15.610 min Scan# 2111
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

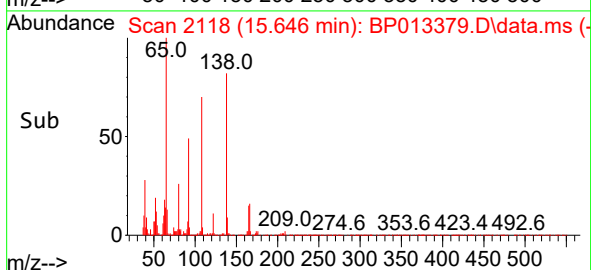
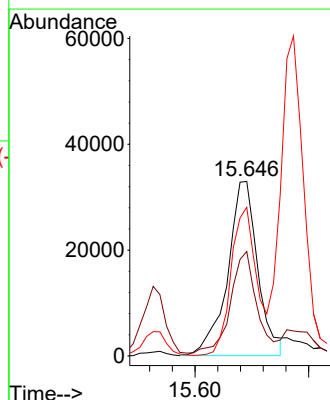
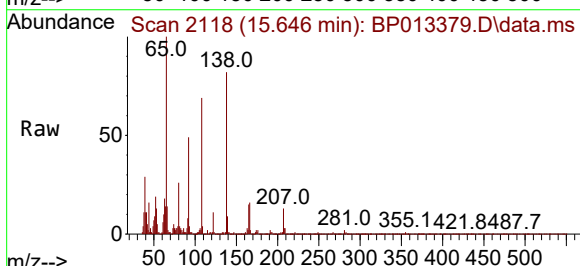
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-07

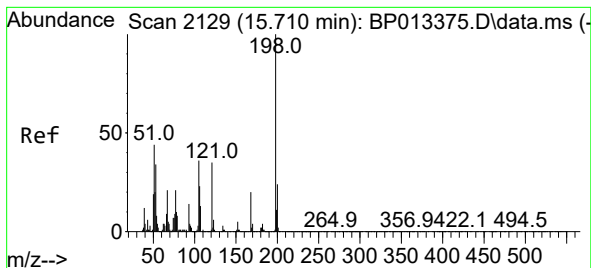
Tgt Ion:204 Resp: 289114
Ion Ratio Lower Upper
204 100
206 33.3 26.3 39.5
141 51.1 40.4 60.6



#63
4-Nitroaniline
Concen: 3.211 ng/ul
RT: 15.646 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:138 Resp: 60598
Ion Ratio Lower Upper
138 100
92 59.9 39.0 58.4#
108 85.1 55.1 82.7#

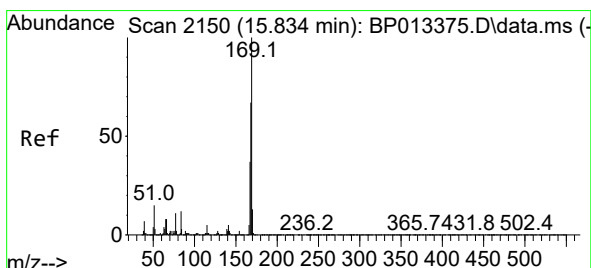
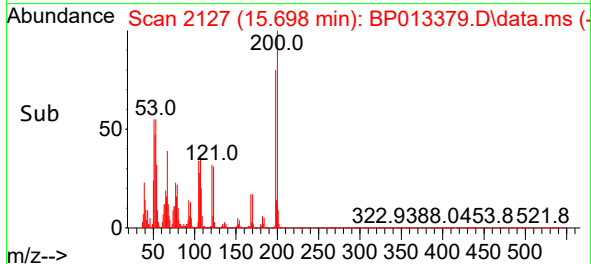
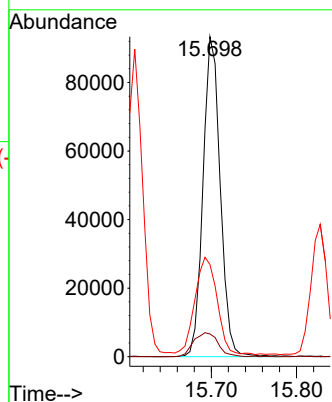
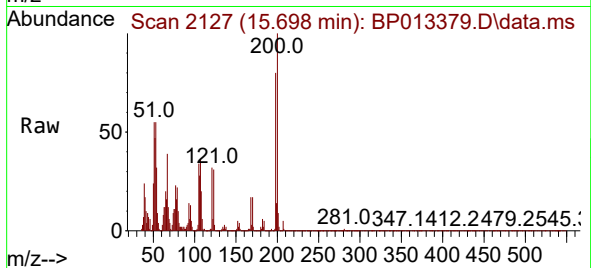




#66
4,6-Dinitro-2-methylphenol
Concen: 5.725 ng/ul
RT: 15.698 min Scan# 2127
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

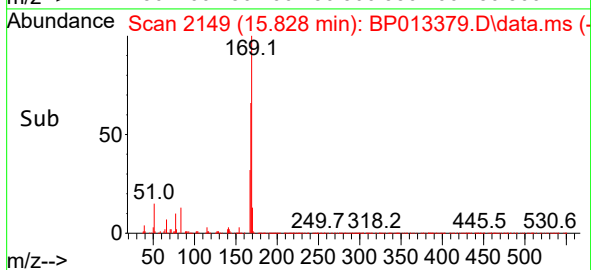
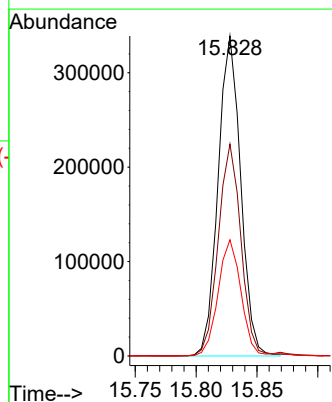
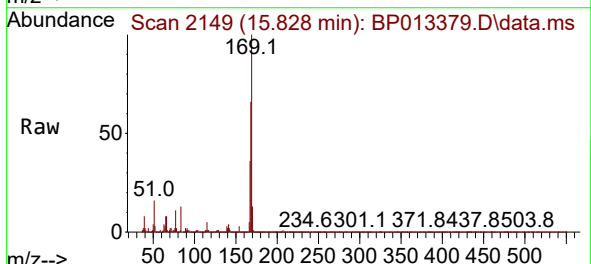
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

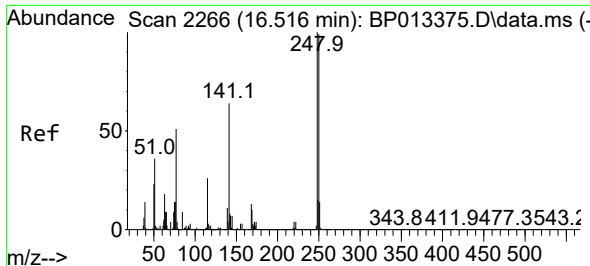
Tgt Ion:198 Resp: 131003
Ion Ratio Lower Upper
198 100
182 7.1 3.3 4.9#
77 28.8 16.6 25.0#



#67
N-Nitrosodiphenylamine
Concen: 4.346 ng/ul
RT: 15.828 min Scan# 2149
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:169 Resp: 438464
Ion Ratio Lower Upper
169 100
168 66.2 53.0 79.6
167 36.3 29.1 43.7

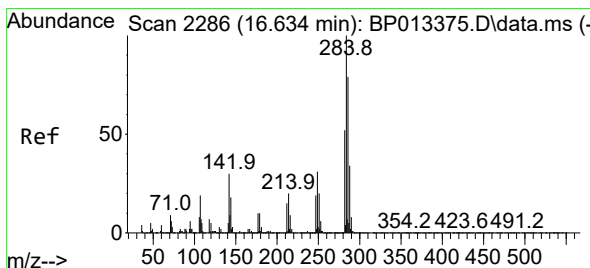
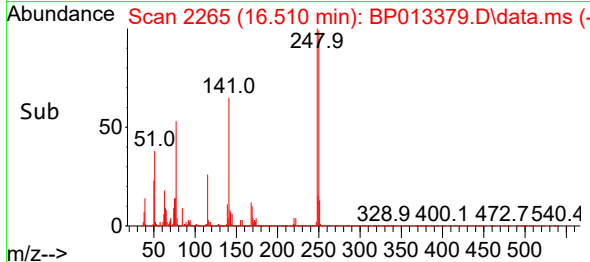
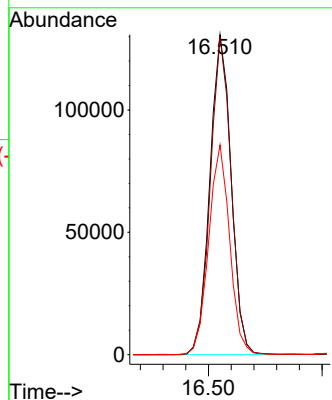
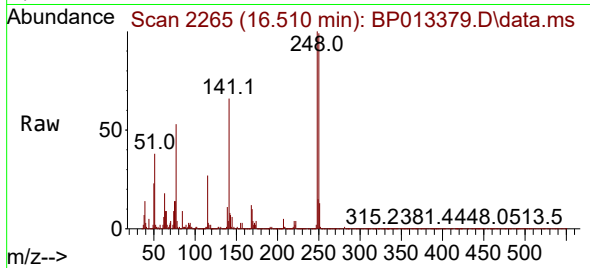




#68
4-Bromophenyl-phenylether
Concen: 4.295 ng/ul
RT: 16.510 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

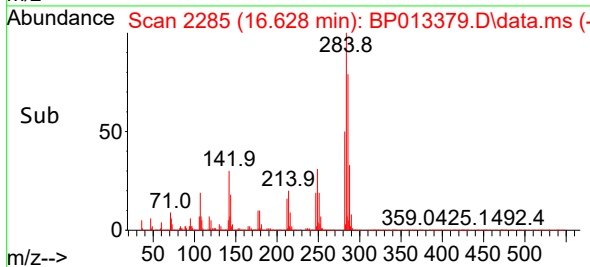
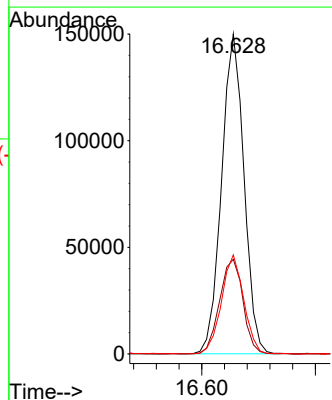
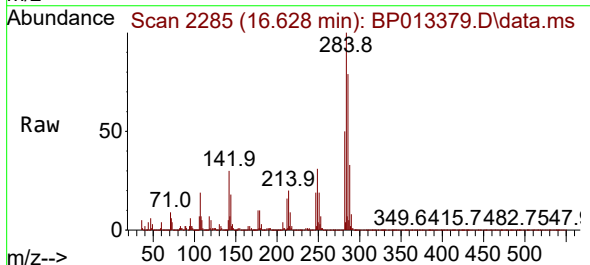
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

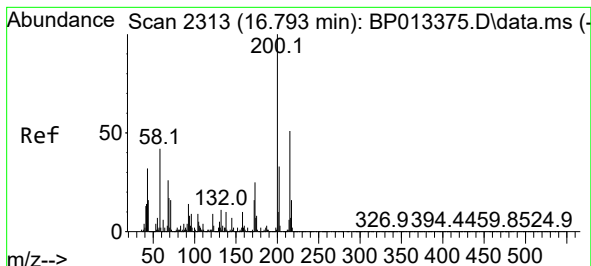
Tgt Ion:248 Resp: 169731
Ion Ratio Lower Upper
248 100
250 99.3 77.4 116.0
141 65.5 48.3 72.5



#69
Hexachlorobenzene
Concen: 4.378 ng/ul
RT: 16.628 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:284 Resp: 205450
Ion Ratio Lower Upper
284 100
142 29.6 22.6 34.0
249 30.9 24.6 37.0





#70

Atrazine

Concen: 3.280 ng/ul

RT: 16.781 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

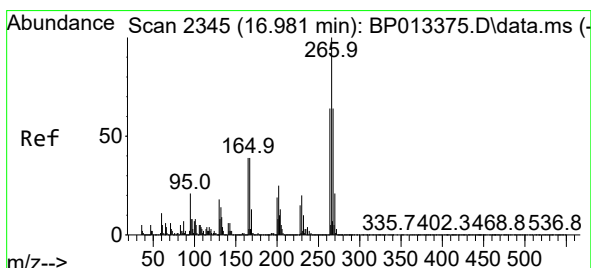
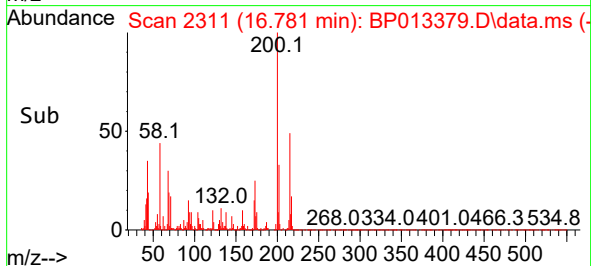
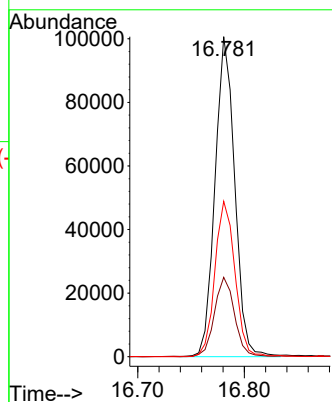
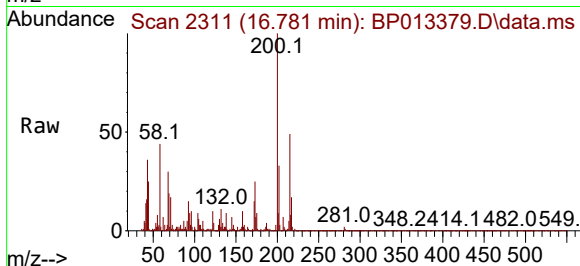
Tgt Ion:200 Resp: 128968

Ion Ratio Lower Upper

200 100

173 24.8 20.5 30.7

215 48.6 39.9 59.9



#71

Pentachlorophenol

Concen: 4.635 ng/ul

RT: 16.975 min Scan# 2344

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

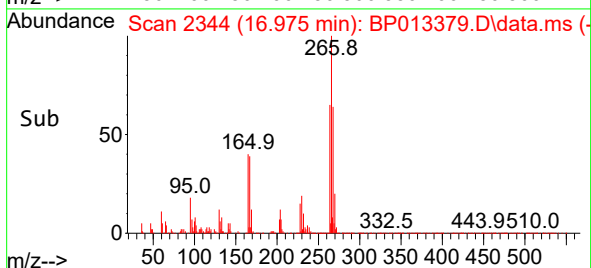
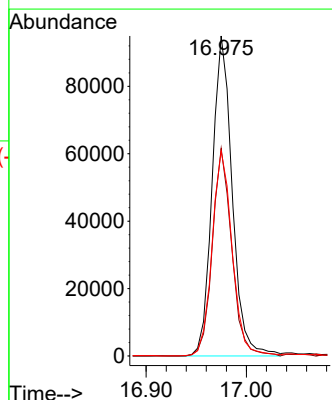
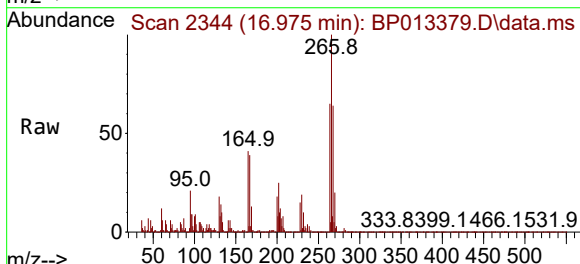
Tgt Ion:266 Resp: 131709

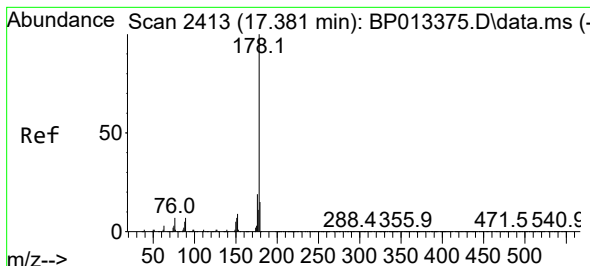
Ion Ratio Lower Upper

266 100

264 64.9 50.9 76.3

268 64.1 51.4 77.2





#72

Phenanthrene

Concen: 4.501 ng/ul

RT: 17.369 min Scan# 2411

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

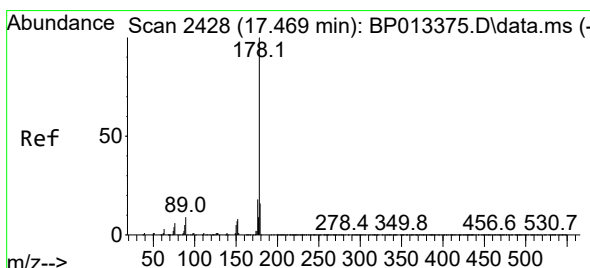
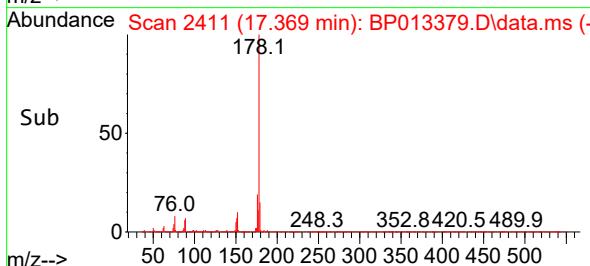
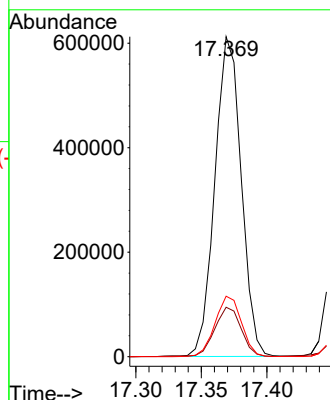
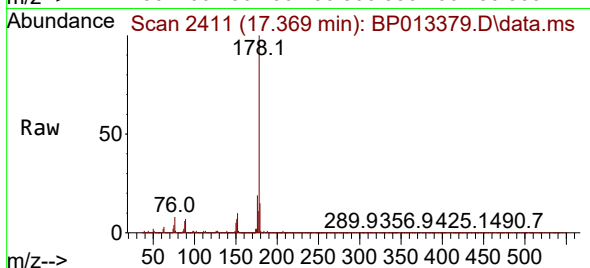
Tgt Ion:178 Resp: 853182

Ion Ratio Lower Upper

178 100

179 15.5 12.5 18.7

176 18.9 15.4 23.0



#74

Anthracene

Concen: 4.513 ng/ul

RT: 17.463 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

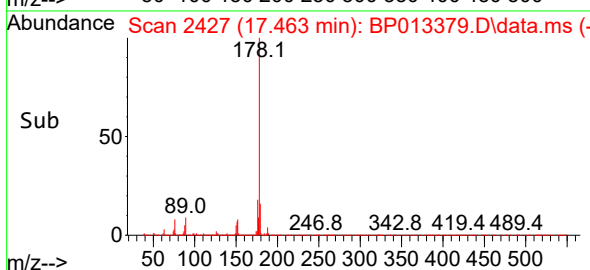
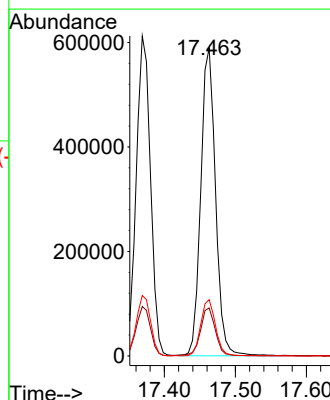
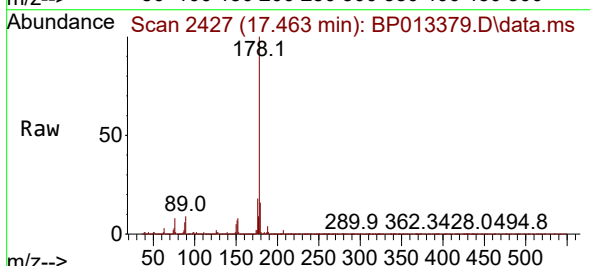
Tgt Ion:178 Resp: 854133

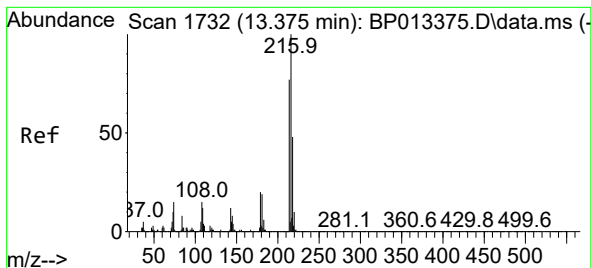
Ion Ratio Lower Upper

178 100

179 15.6 12.5 18.7

176 18.3 14.8 22.2





#75

1,2,3,4-Tetrachlorobenzene

Concen: 3.986 ng/uL

RT: 13.369 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

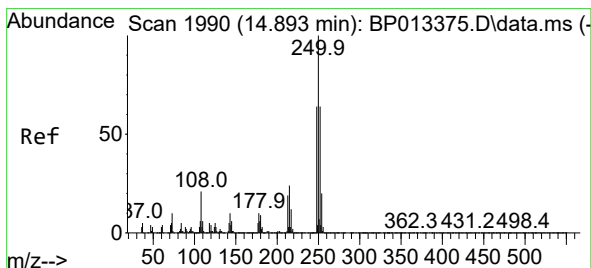
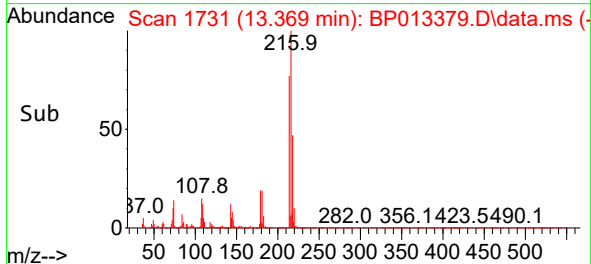
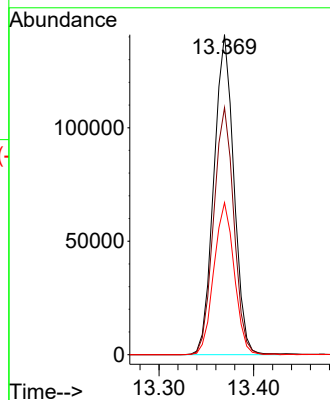
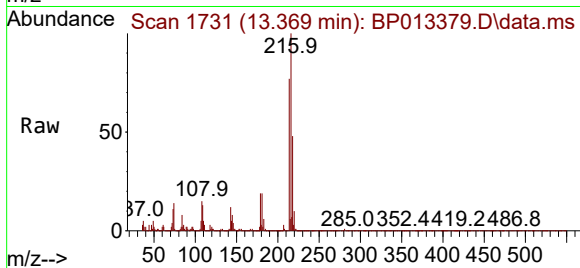
Tgt Ion:216 Resp: 206957

Ion Ratio Lower Upper

216 100

214 77.2 62.2 93.2

218 47.5 38.9 58.3



#76

Pentachlorobenzene

Concen: 4.021 ng/uL

RT: 14.887 min Scan# 1989

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

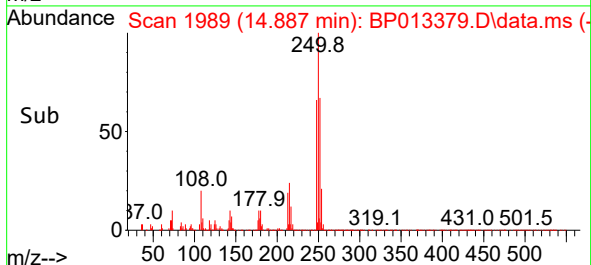
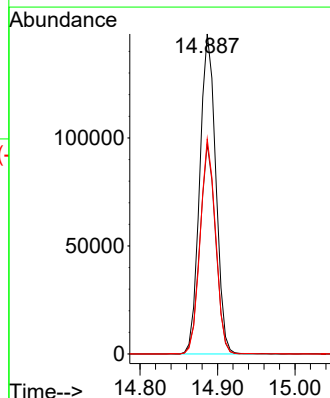
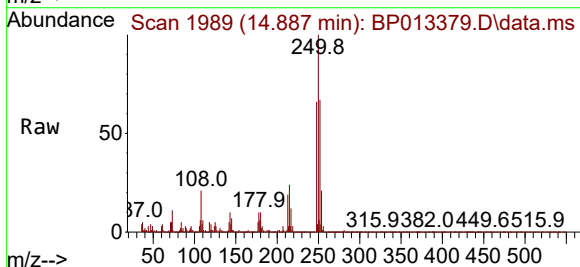
Tgt Ion:250 Resp: 212857

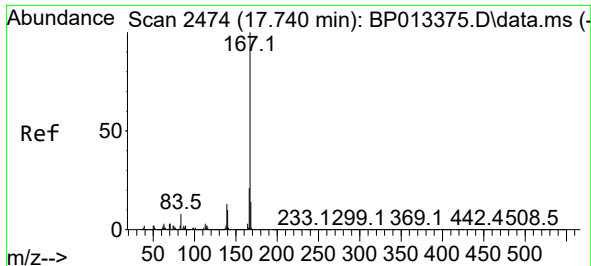
Ion Ratio Lower Upper

250 100

248 65.6 50.6 76.0

252 67.2 51.1 76.7

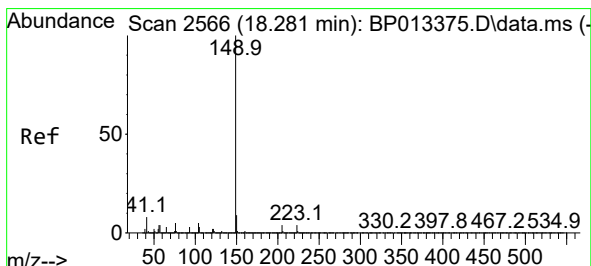
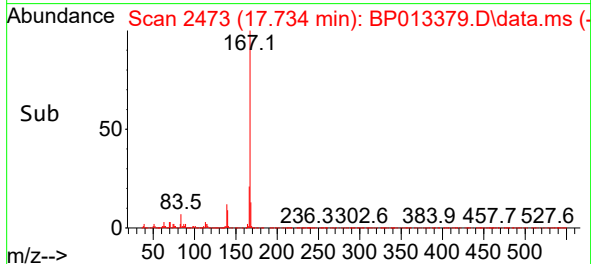
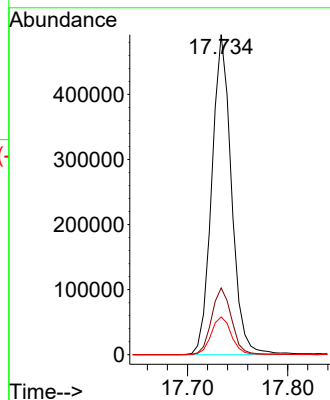
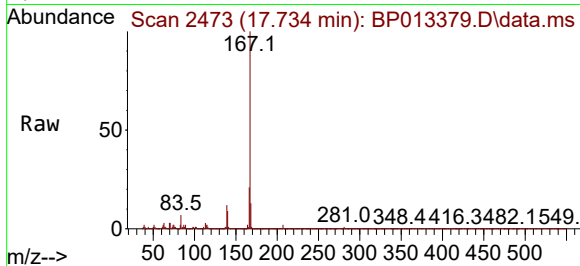




#77
 Carbazole
 Concen: 4.202 ng/ul
 RT: 17.734 min Scan# 2473
 Delta R.T. -0.006 min
 Lab File: BP013379.D
 Acq: 03 Jan 2023 15:49

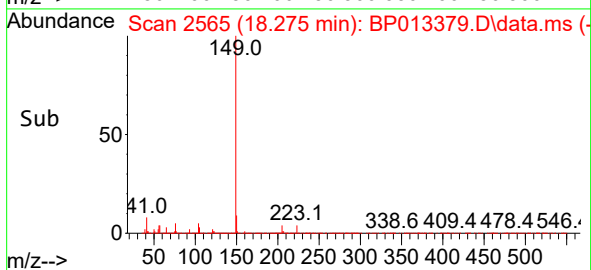
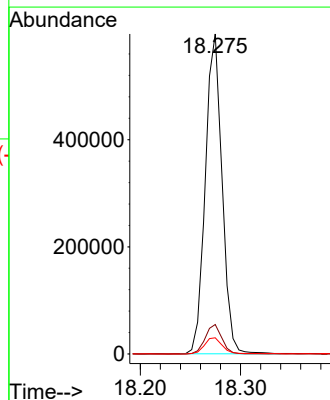
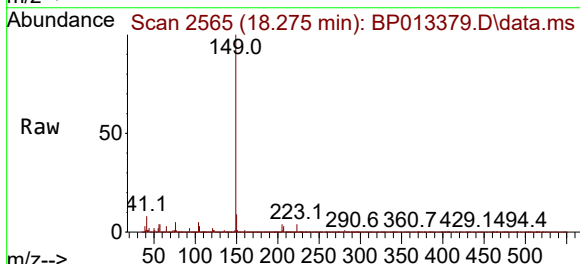
Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT4-2022-07

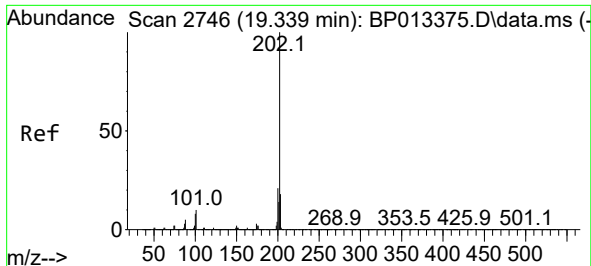
Tgt Ion:167 Resp: 669725
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.2 25.8
 139 11.8 9.4 14.2



#78
 Di-n-butylphthalate
 Concen: 3.581 ng/ul
 RT: 18.275 min Scan# 2565
 Delta R.T. -0.006 min
 Lab File: BP013379.D
 Acq: 03 Jan 2023 15:49

Tgt Ion:149 Resp: 694978
 Ion Ratio Lower Upper
 149 100
 150 9.2 7.5 11.3
 104 5.1 3.8 5.6

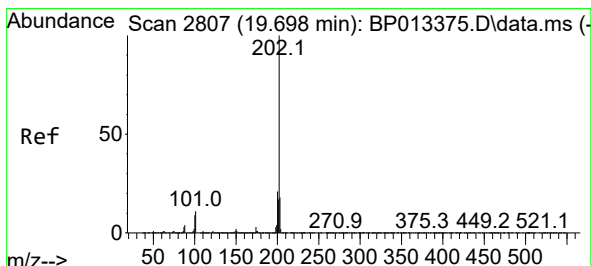
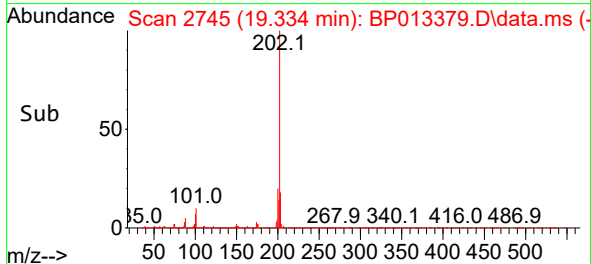
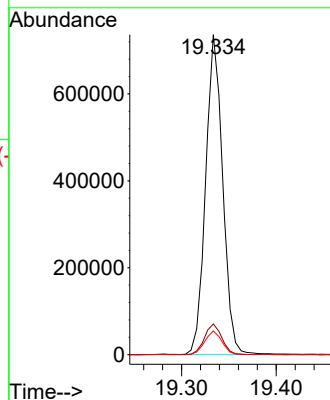
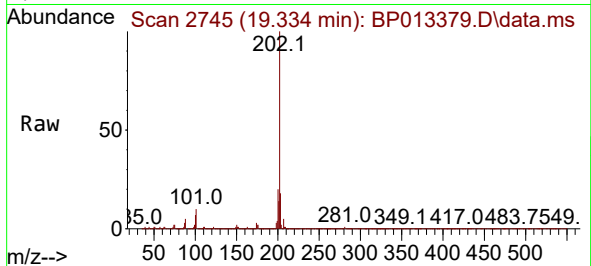




#80
Fluoranthene
Concen: 5.290 ng/ul
RT: 19.334 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

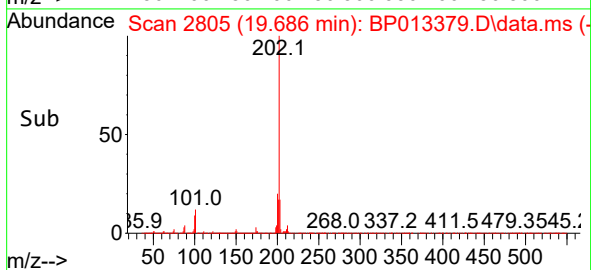
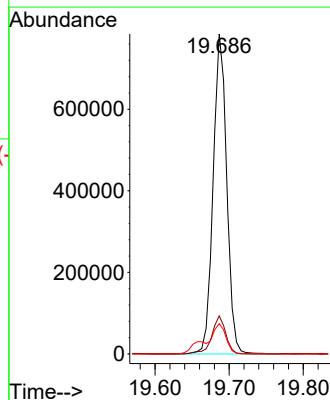
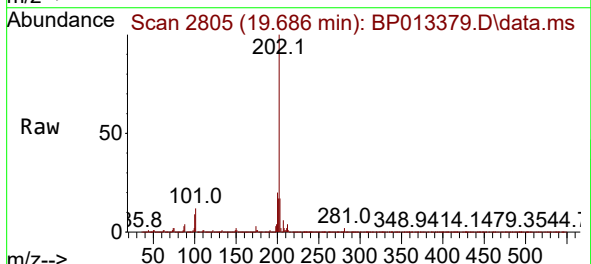
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

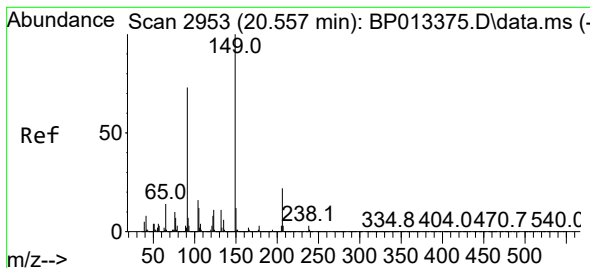
Tgt Ion:202 Resp: 919227
Ion Ratio Lower Upper
202 100
101 9.6 8.2 12.2
100 7.4 6.1 9.1



#82
Pyrene
Concen: 5.562 ng/ul
RT: 19.686 min Scan# 2805
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:202 Resp: 997012
Ion Ratio Lower Upper
202 100
101 11.9 9.4 14.2
100 9.5 7.8 11.8





#83

Butylbenzylphthalate

Concen: 3.459 ng/ul

RT: 20.551 min Scan# 2953

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

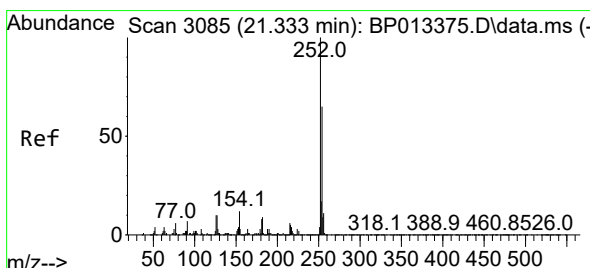
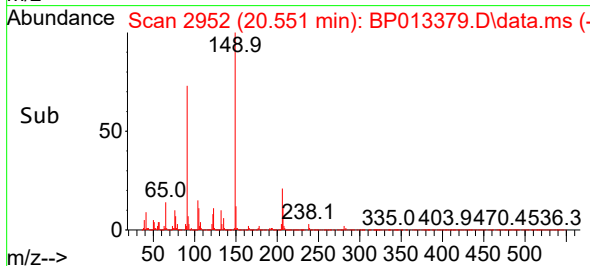
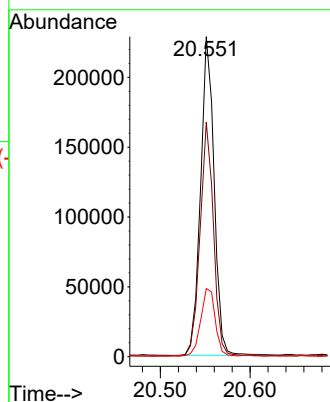
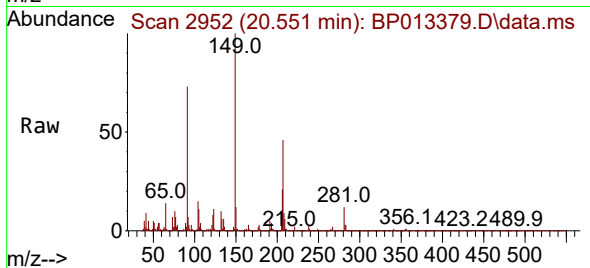
Tgt Ion:149 Resp: 239520

Ion Ratio Lower Upper

149 100

91 73.3 53.4 80.0

206 21.3 17.9 26.9



#84

3,3'-Dichlorobenzidine

Concen: 3.171 ng/ul

RT: 21.328 min Scan# 3084

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

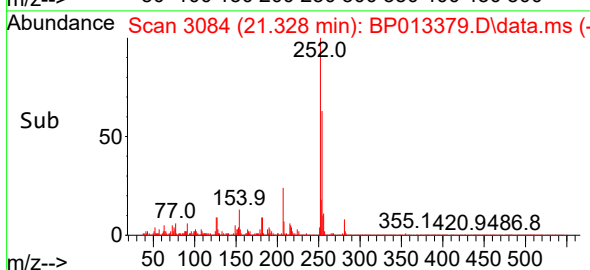
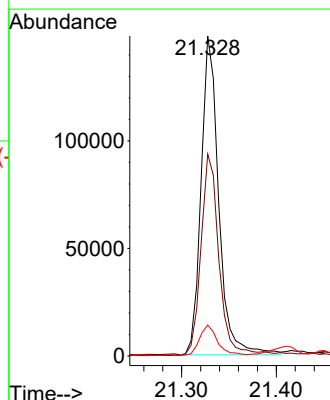
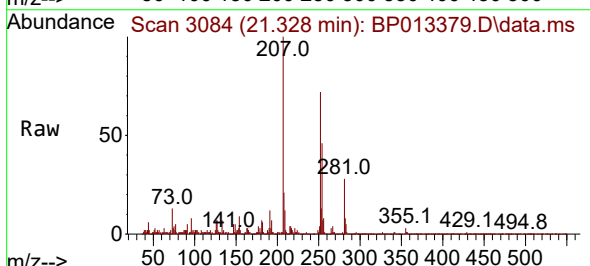
Tgt Ion:252 Resp: 191099

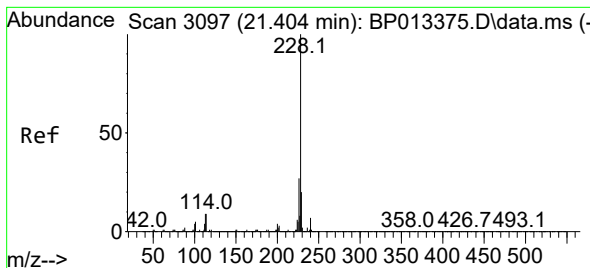
Ion Ratio Lower Upper

252 100

254 63.1 51.8 77.8

126 9.6 7.4 11.2





#85

Benzo(a)anthracene

Concen: 4.306 ng/ul

RT: 21.398 min Scan# 3097

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

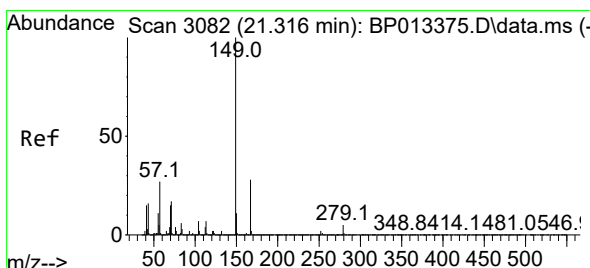
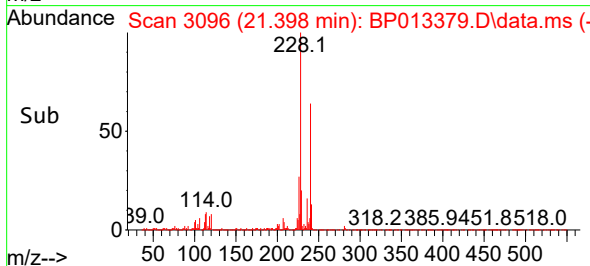
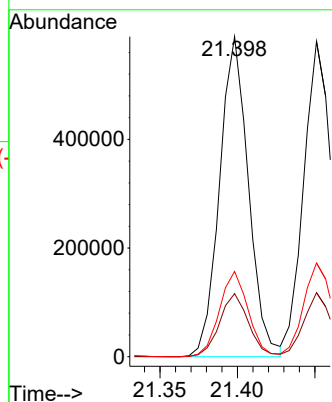
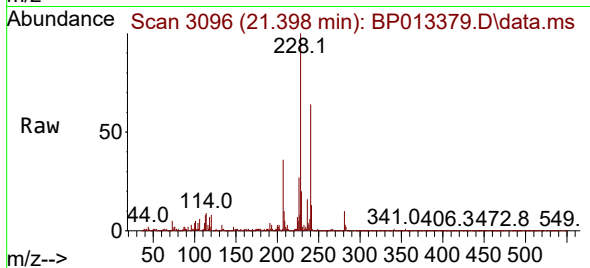
Tgt Ion:228 Resp: 762479

Ion Ratio Lower Upper

228 100

229 19.7 16.1 24.1

226 26.6 22.0 33.0



#86

Bis(2-ethylhexyl)phthalate

Concen: 2.997 ng/ul

RT: 21.310 min Scan# 3081

Delta R.T. -0.006 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

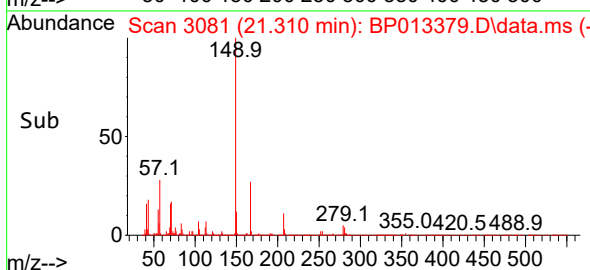
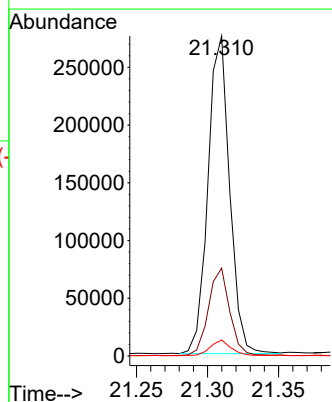
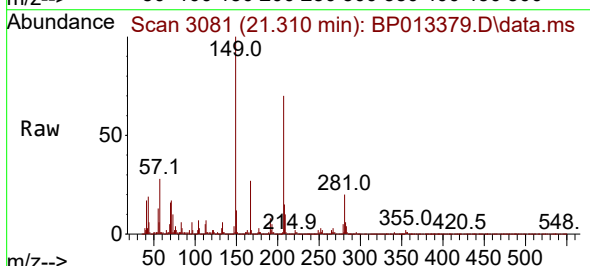
Tgt Ion:149 Resp: 292778

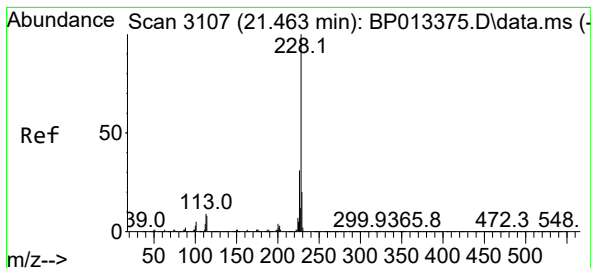
Ion Ratio Lower Upper

149 100

167 27.4 22.5 33.7

279 5.0 3.8 5.8





#87

Chrysene

Concen: 4.438 ng/ul

RT: 21.451 min Scan# 3107

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

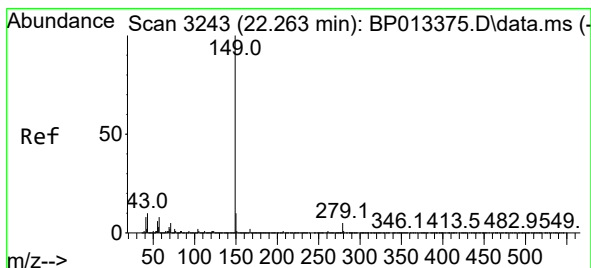
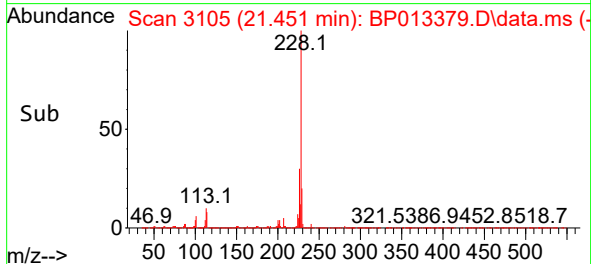
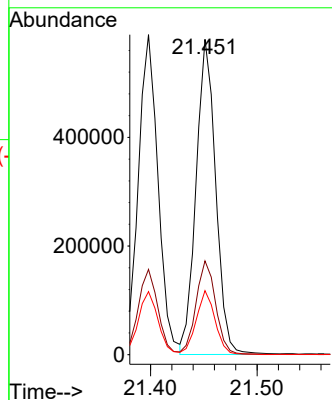
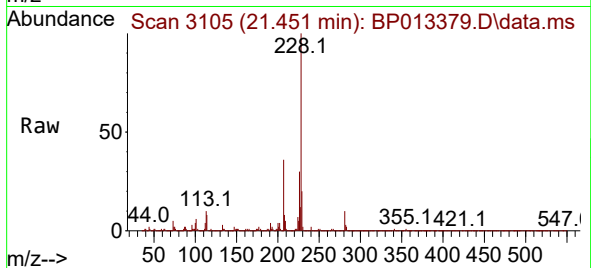
Tgt Ion:228 Resp: 743086

Ion Ratio Lower Upper

228 100

226 29.7 24.5 36.7

229 20.3 16.0 24.0



#89

Di-n-octyl phthalate

Concen: 3.173 ng/ul

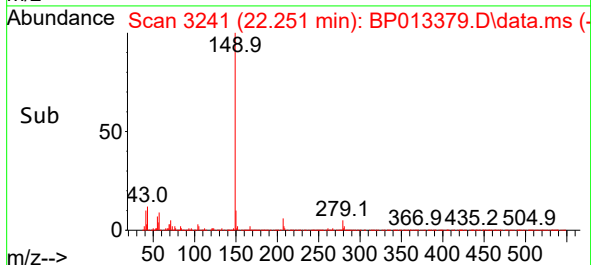
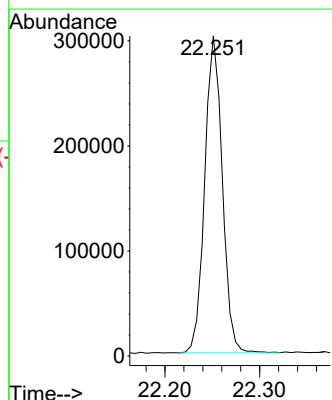
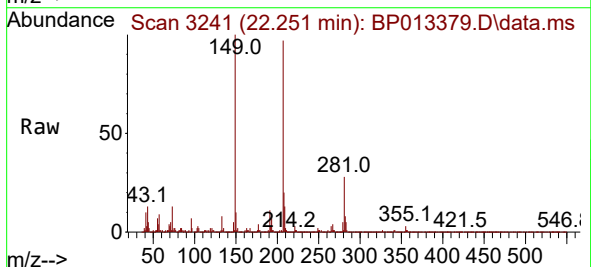
RT: 22.251 min Scan# 3241

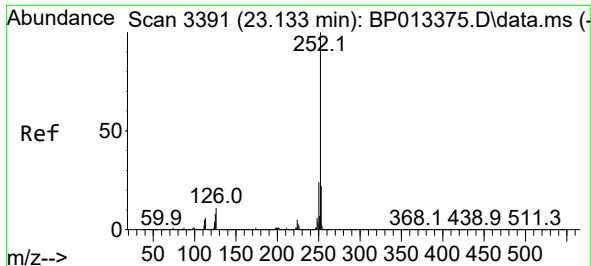
Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Tgt Ion:149 Resp: 389421

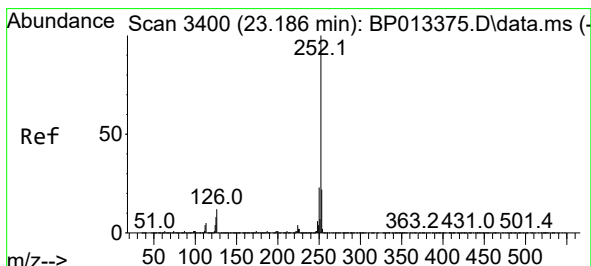
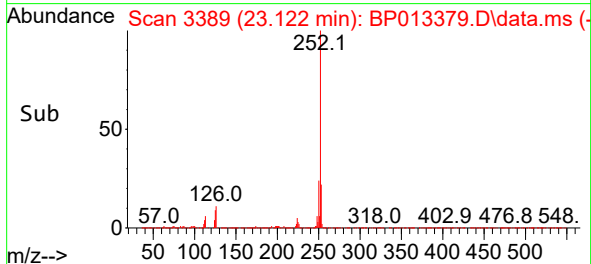
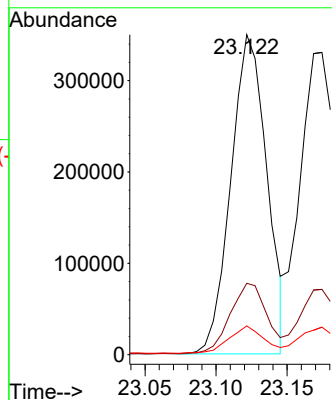
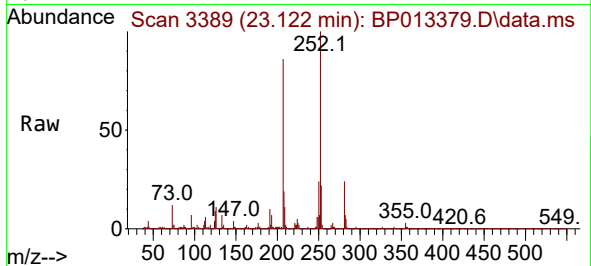




#90
Benzo(b)fluoranthene
Concen: 4.406 ng/ul
RT: 23.122 min Scan# 3389
Delta R.T. -0.017 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

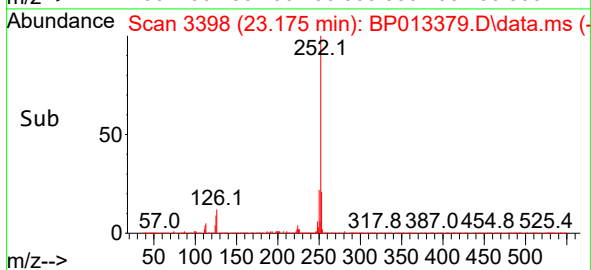
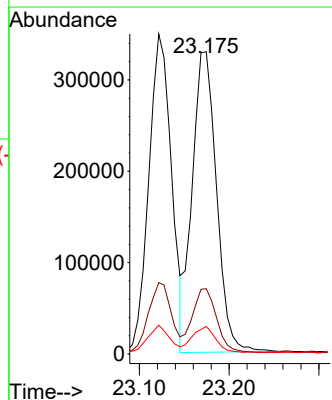
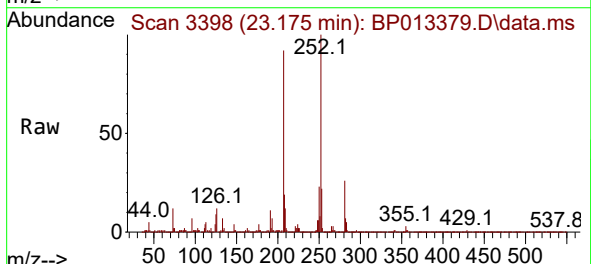
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

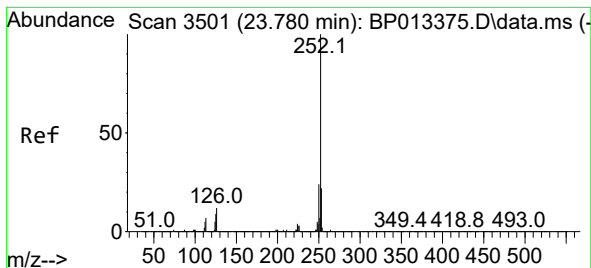
Tgt Ion:252 Resp: 615542
Ion Ratio Lower Upper
252 100
253 22.3 17.7 26.5
125 9.0 6.8 10.2



#91
Benzo(k)fluoranthene
Concen: 4.478 ng/ul
RT: 23.175 min Scan# 3398
Delta R.T. -0.012 min
Lab File: BP013379.D
Acq: 03 Jan 2023 15:49

Tgt Ion:252 Resp: 620347
Ion Ratio Lower Upper
252 100
253 21.6 17.7 26.5
125 9.1 6.8 10.2





#93

Benzo(a)pyrene

Concen: 4.337 ng/ul

RT: 23.769 min Scan# 34

Delta R.T. -0.012 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

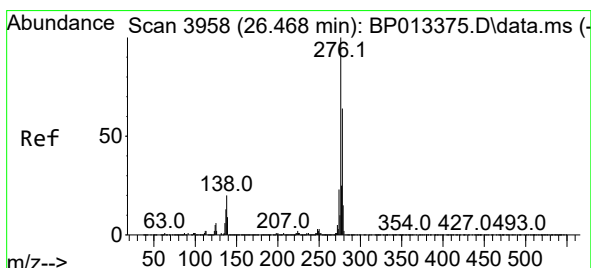
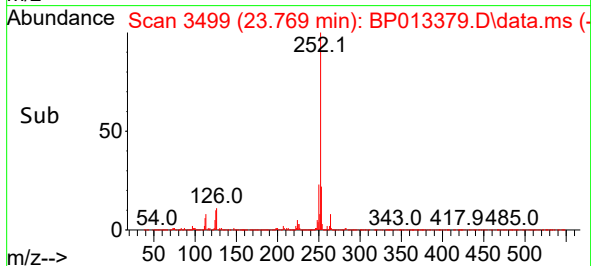
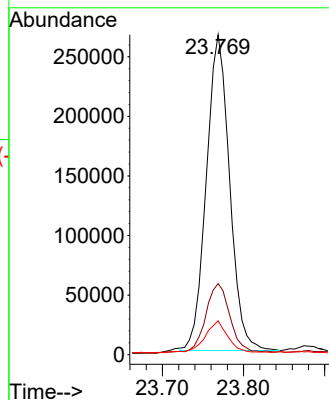
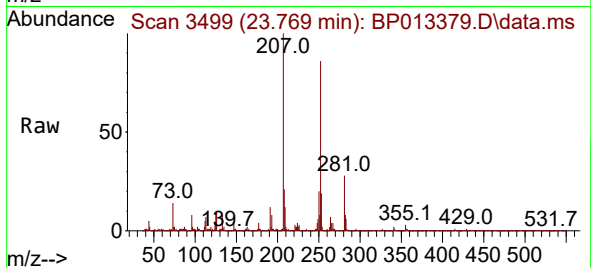
Tgt Ion:252 Resp: 527657

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 10.6 7.5 11.3



#94

Indeno(1,2,3-cd)pyrene

Concen: 4.600 ng/ul

RT: 26.451 min Scan# 3955

Delta R.T. -0.023 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

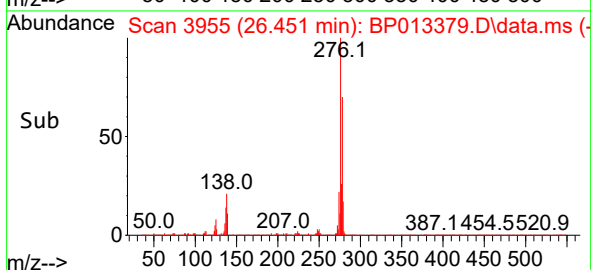
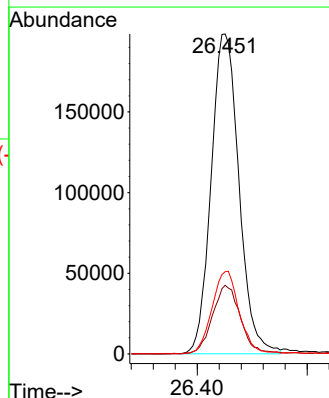
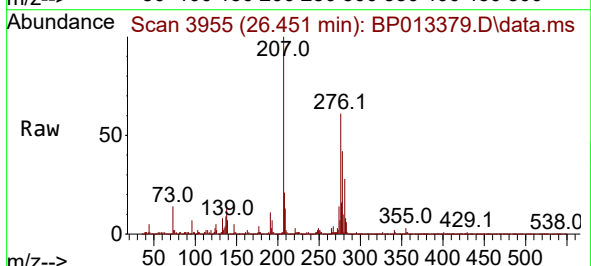
Tgt Ion:276 Resp: 697120

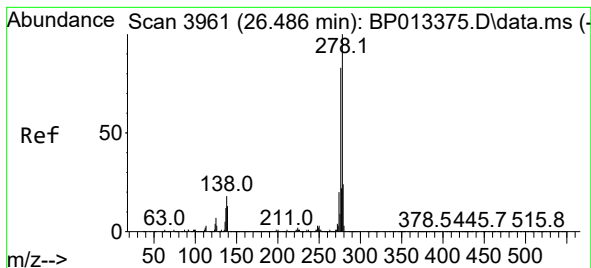
Ion Ratio Lower Upper

276 100

138 21.5 17.1 25.7

277 25.7 20.0 30.0





#95

Dibenzo(a,h)anthracene

Concen: 4.666 ng/ul

RT: 26.463 min Scan# 3957

Delta R.T. -0.029 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

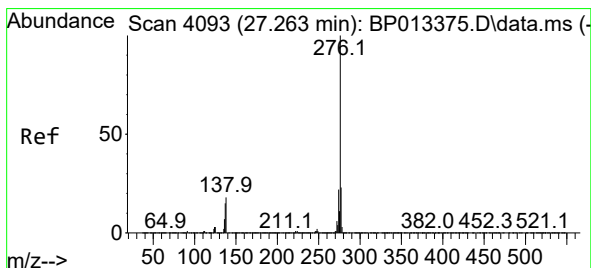
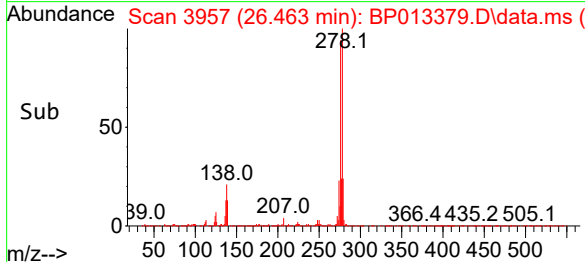
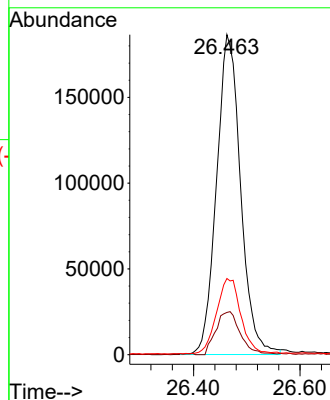
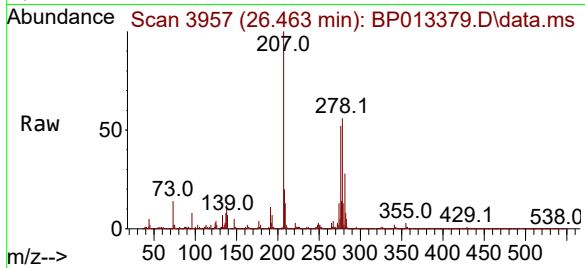
Tgt Ion:278 Resp: 585430

Ion Ratio Lower Upper

278 100

139 13.2 11.1 16.7

279 23.8 19.0 28.6



#96

Benzo(g,h,i)perylene

Concen: 4.827 ng/ul

RT: 27.245 min Scan# 4090

Delta R.T. -0.017 min

Lab File: BP013379.D

Acq: 03 Jan 2023 15:49

Tgt Ion:276 Resp: 587215

Ion Ratio Lower Upper

276 100

138 18.3 15.4 23.2

277 23.0 19.1 28.7

