

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP010423\
 Data File : BP013387.D
 Acq On : 04 Jan 2023 13:06
 Operator : CG/JU
 Sample : N5388-04
 Misc : SFAM-MDL-S-02-4PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT4-2022-08

Quant Time: Jan 05 04:06:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP120722.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Jan 05 04:02:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.928	152	548916	20.000	ng/ul	0.00
20) Naphthalene-d8	10.740	136	2320726	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.569	164	1554043	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.328	188	3484992	20.000	ng/ul	0.00
79) Chrysene-d12	21.410	240	3131578	20.000	ng/ul	0.00
88) Perylene-d12	23.874	264	2732110	20.000	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.322	96	62740	4.887	ng/uL	0.00
4) Pyridine-d5	3.752	84	533591	14.631	ng/ul	0.00
7) Phenol-d5	7.087	99	844700	18.893	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.252	67	560687	20.788	ng/ul	0.00
11) 2-Chlorophenol-d4	7.452	132	677309	19.244	ng/ul	0.00
15) 4-Methylphenol-d8	8.634	113	674488	18.411	ng/ul	0.00
21) Nitrobenzene-d5	9.093	128	320654	18.806	ng/ul	0.00
24) 2-Nitrophenol-d4	9.816	143	358375	18.669	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.357	165	684190	18.350	ng/ul	0.00
31) 4-Chloroaniline-d4	10.875	131	950276	18.053	ng/ul	0.00
46) Dimethylphthalate-d6	13.975	166	2199600	18.417	ng/ul	0.00
49) Acenaphthylene-d8	14.263	160	2438245	18.579	ng/ul	0.00
54) 4-Nitrophenol-d4	14.769	143	345097	16.063	ng/ul	0.00
60) Fluorene-d10	15.563	176	1923708	19.039	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.686	200	352661	15.725	ng/ul	0.00
73) Anthracene-d10	17.428	188	3030576	19.276	ng/ul	0.00
81) Pyrene-d10	19.657	212	3554528	19.775	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.715	264	2622641	19.259	ng/ul	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.358	88	19420	1.449	ng/uL#	92
5) Pyridine	3.775	79	148790	4.105	ng/ul#	76
6) Benzaldehyde	7.063	77	100059	5.715	ng/ul	94
8) Phenol	7.116	94	223223	4.938	ng/ul	93
10) Bis(2-Chloroethyl)ether	7.346	93	189005	5.094	ng/ul	92
12) 2-Chlorophenol	7.487	128	177676	4.923	ng/ul	93
13) 2-Methylphenol	8.369	108	155684	4.417	ng/ul	96
14) 2,2'-oxybis(1-Chloropr...	8.452	45	298015	5.853	ng/ul	97
16) Acetophenone	8.757	105	283230	5.042	ng/ul#	93
17) N-Nitroso-di-n-propyla...	8.734	70	140958	4.990	ng/ul	90
18) 4-Methylphenol	8.699	108	180978	4.636	ng/ul	99
19) Hexachloroethane	9.004	117	71662	4.968	ng/ul	86
22) Nitrobenzene	9.134	77	220709	5.516	ng/ul	93
23) Isophorone	9.663	82	363084	4.488	ng/ul	97
25) 2-Nitrophenol	9.851	139	98119	4.717	ng/ul#	87
26) 2,4-Dimethylphenol	9.904	107	196696	4.847	ng/ul	96
27) Bis(2-Chloroethoxy)met...	10.146	93	248917	4.812	ng/ul	98
29) 2,4-Dichlorophenol	10.387	162	179221	4.907	ng/ul	99
30) Naphthalene	10.787	128	607949	5.009	ng/ul	99
32) 4-Chloroaniline	10.899	127	245322	4.710	ng/ul	98
33) Hexachlorobutadiene	11.069	225	130216	5.193	ng/ul	98
34) Caprolactam	11.704	113	49107	3.943	ng/ul	94
35) 4-Chloro-3-methylphenol	12.022	107	164548	4.415	ng/ul	99
36) 2-Methylnaphthalene	12.393	142	396101	4.757	ng/ul	99

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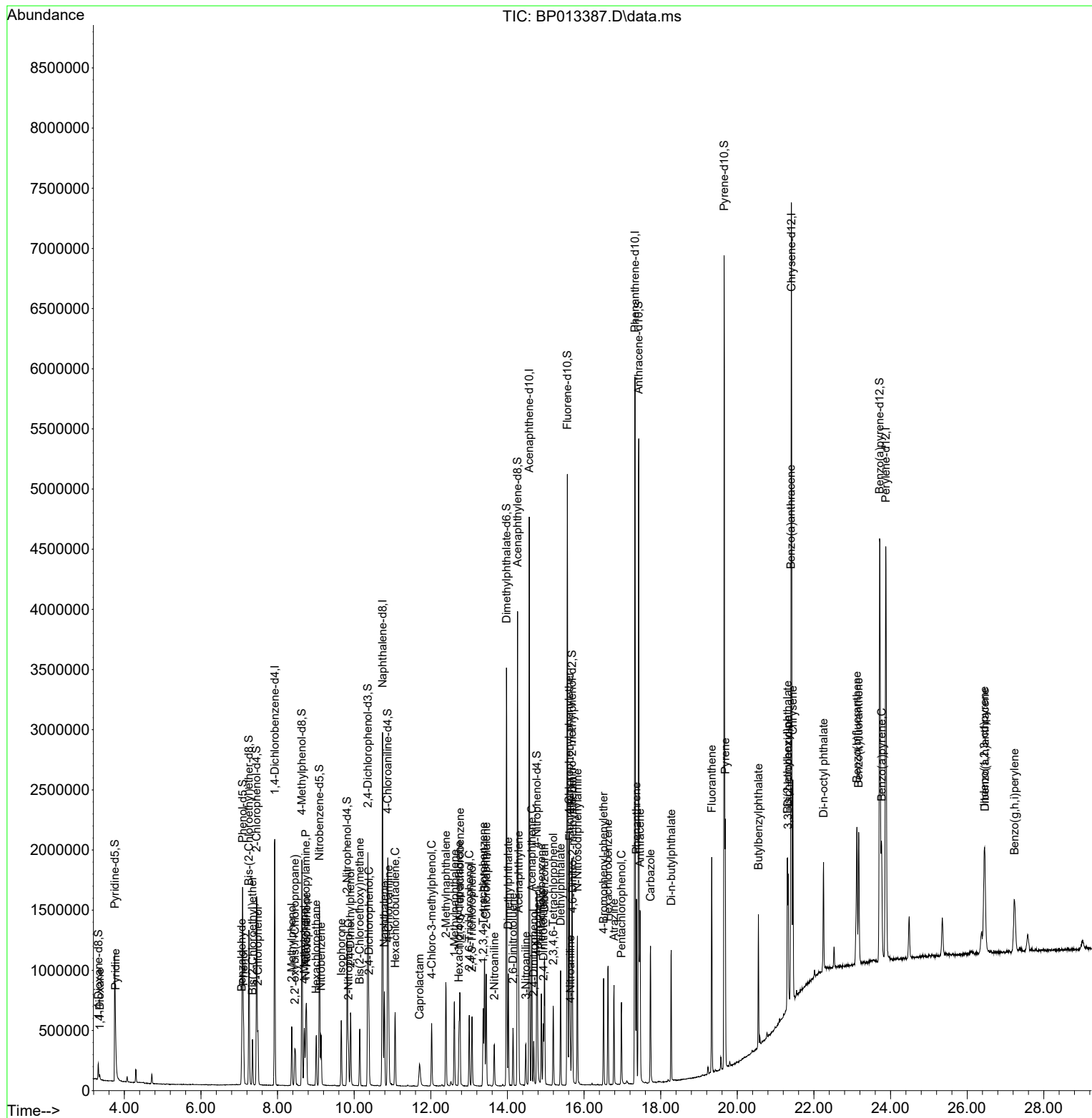
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.616	142	315146	3.680	ng/ul	97
39) 1,2,4,5-Tetrachloroben...	12.763	216	245612	4.908	ng/ul	99
40) Hexachlorocyclopentadiene	12.734	237	124811	3.833	ng/ul	97
41) 2,4,6-Trichlorophenol	13.004	196	137070	4.262	ng/ul	97
42) 2,4,5-Trichlorophenol	13.075	196	147274	4.263	ng/ul	97
43) 1,1'-Biphenyl	13.404	154	553005	4.738	ng/ul	99
44) 2-Chloronaphthalene	13.445	162	439232	4.782	ng/ul	98
45) 2-Nitroaniline	13.657	65	95683	4.296	ng/ul	90
47) Dimethylphthalate	14.022	163	553588	4.676	ng/ul	99
48) 2,6-Dinitrotoluene	14.145	165	81790	3.718	ng/ul#	86
50) Acenaphthylene	14.292	152	682167	4.835	ng/ul	99
51) 3-Nitroaniline	14.481	138	80222	3.862	ng/ul	89
52) Acenaphthene	14.634	153	470519	4.812	ng/ul	99
53) 2,4-Dinitrophenol	14.687	184	70800	4.708	ng/ul	91
55) 4-Nitrophenol	14.787	109	69309	4.728	ng/ul	89
56) Dibenzofuran	14.969	168	684693	4.925	ng/ul	100
57) 2,4-Dinitrotoluene	14.939	165	129827	4.063	ng/ul	92
58) 2,3,4,6-Tetrachlorophenol	15.198	232	133096	4.222	ng/ul	95
59) Diethylphthalate	15.387	149	496533	4.315	ng/ul	99
61) Fluorene	15.622	166	551703	4.949	ng/ul	99
62) 4-Chlorophenyl-phenyle...	15.610	204	293597	4.980	ng/ul	99
63) 4-Nitroaniline	15.645	138	80284	4.392	ng/ul	92
66) 4,6-Dinitro-2-methylph...	15.698	198	114712	5.234	ng/ul#	87
67) N-Nitrosodiphenylamine	15.828	169	448214	4.639	ng/ul	100
68) 4-Bromophenyl-phenylether	16.510	248	172441	4.556	ng/ul	98
69) Hexachlorobenzene	16.628	284	208652	4.643	ng/ul	98
70) Atrazine	16.781	200	138638	3.682	ng/ul	98
71) Pentachlorophenol	16.975	266	116288	4.273	ng/ul	98
72) Phenanthrene	17.369	178	887810	4.891	ng/ul	100
74) Anthracene	17.463	178	885125	4.884	ng/ul	100
75) 1,2,3,4-Tetrachloroben...	13.369	216	194850	3.919	ng/uL	98
76) Pentachlorobenzene	14.887	250	187951	3.708	ng/uL	100
77) Carbazole	17.733	167	717997	4.704	ng/ul	100
78) Di-n-butylphthalate	18.275	149	702559	3.780	ng/ul	99
80) Fluoranthene	19.333	202	1012538	4.963	ng/ul	99
82) Pyrene	19.686	202	1100125	5.227	ng/ul	99
83) Butylbenzylphthalate	20.551	149	276616	3.402	ng/ul	95
84) 3,3'-Dichlorobenzidine	21.327	252	317583	4.489	ng/ul	99
85) Benzo(a)anthracene	21.398	228	975749	4.694	ng/ul	100
86) Bis(2-ethylhexyl)phtha...	21.310	149	363465	3.169	ng/ul	98
87) Chrysene	21.451	228	921123	4.685	ng/ul	98
89) Di-n-octyl phthalate	22.251	149	541590	3.538	ng/ul	100
90) Benzo(b)fluoranthene	23.121	252	854205	4.903	ng/ul	98
91) Benzo(k)fluoranthene	23.168	252	813358	4.708	ng/ul	98
93) Benzo(a)pyrene	23.768	252	741678	4.889	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	26.445	276	781017	4.133	ng/ul	98
95) Dibenzo(a,h)anthracene	26.462	278	651316	4.163	ng/ul	97
96) Benzo(g,h,i)perylene	27.233	276	641868	4.231	ng/ul	99

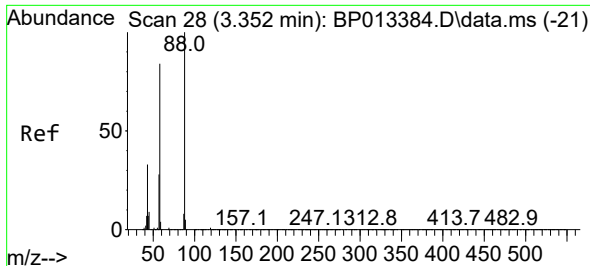
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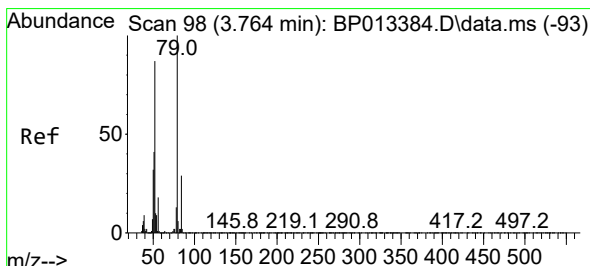
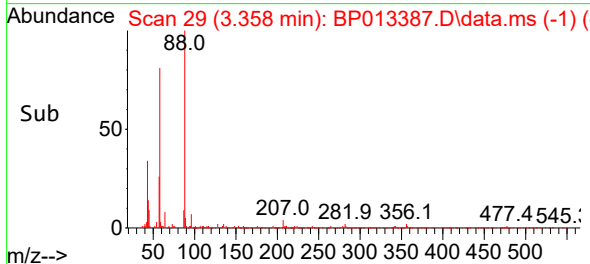
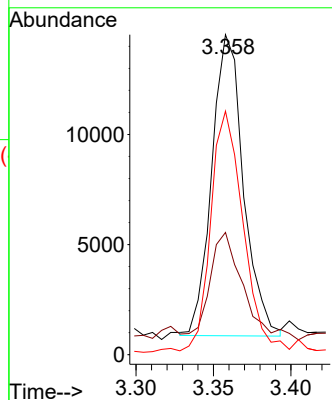
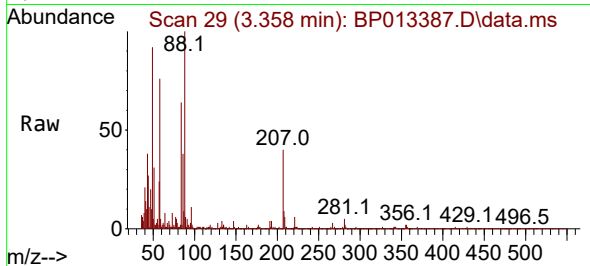




#2
1,4-Dioxane
Concen: 1.449 ng/uL
RT: 3.358 min Scan# 29
Delta R.T. 0.006 min
Lab File: BP013387.D
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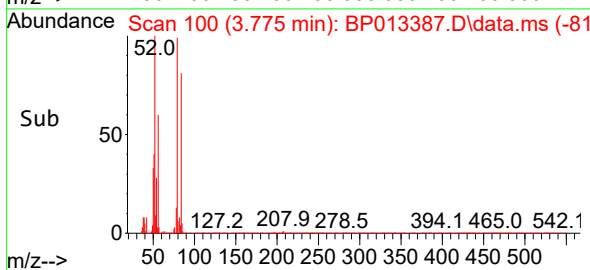
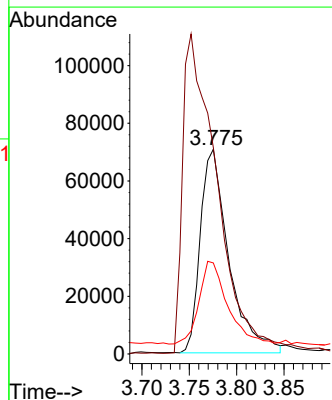
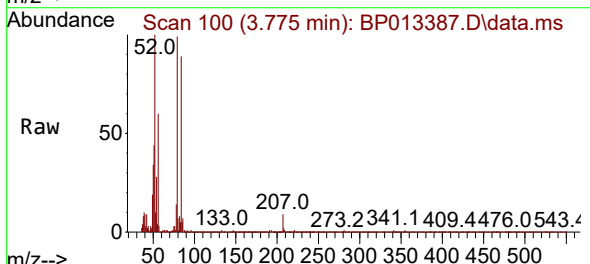
Instrument :
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ClientSampleId :
MDL-SOIL-QT4-2022-08

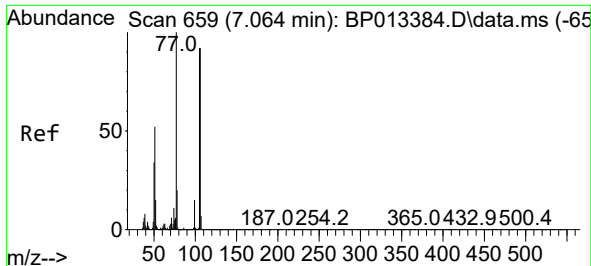
Tgt Ion: 88 Resp: 19420
Ion Ratio Lower Upper
88 100
43 38.2 22.4 33.6#
58 76.1 58.2 87.4



#5
Pyridine
Concen: 4.105 ng/uL
RT: 3.775 min Scan# 100
Delta R.T. 0.012 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion: 79 Resp: 148790
Ion Ratio Lower Upper
79 100
52 100.9 60.7 91.1#
51 44.5 28.9 43.3#

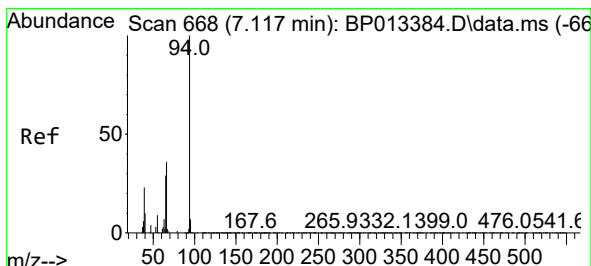
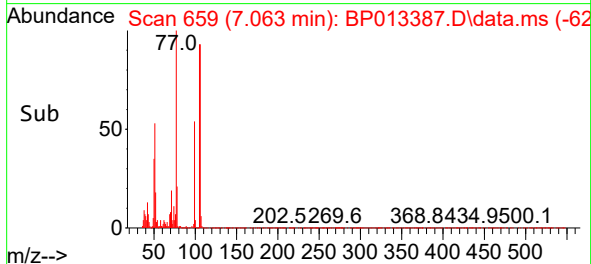
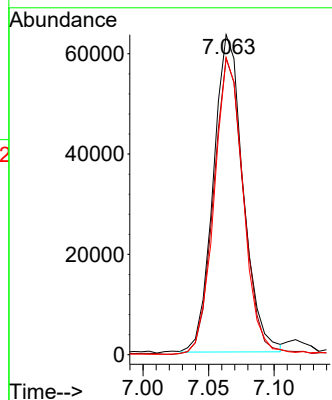
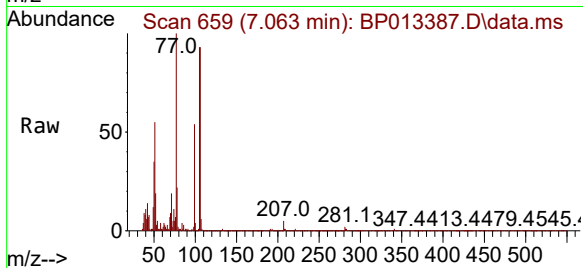




#6
Benzaldehyde
Concen: 5.715 ng/ul
RT: 7.063 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

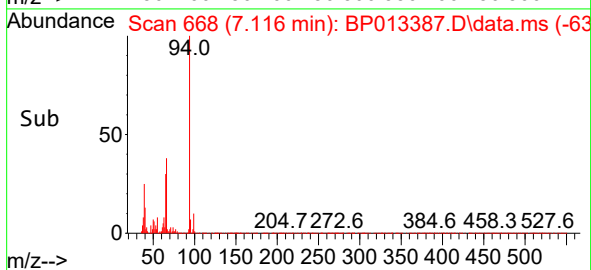
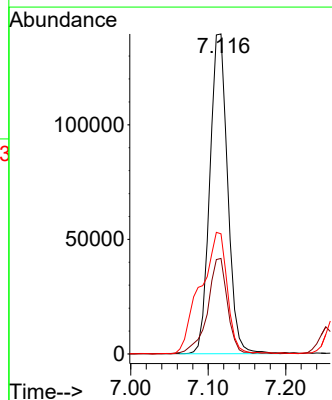
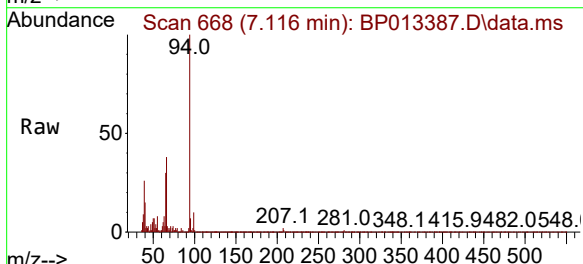
Instrument :
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ClientSampleId :
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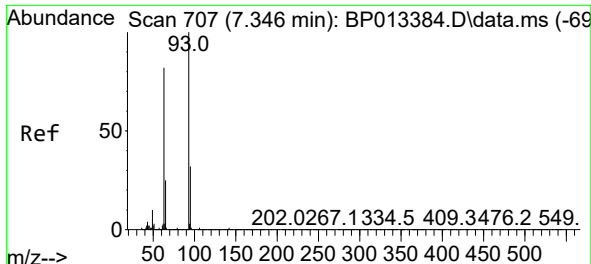
Tgt Ion: 77 Resp: 100059
Ion Ratio Lower Upper
77 100
105 92.6 81.5 122.3
106 92.8 76.9 115.3



#8
Phenol
Concen: 4.938 ng/ul
RT: 7.116 min Scan# 668
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion: 94 Resp: 223223
Ion Ratio Lower Upper
94 100
65 29.9 21.1 31.7
66 37.6 27.0 40.6

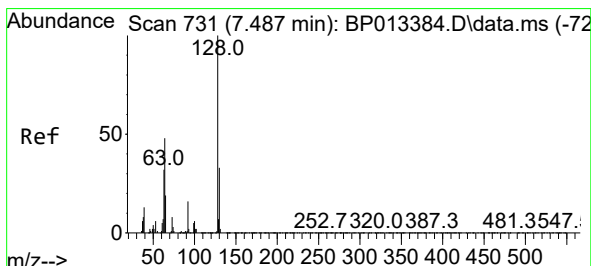
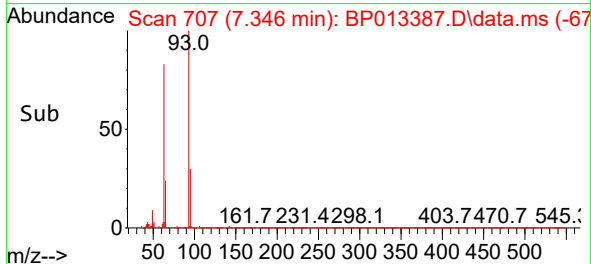
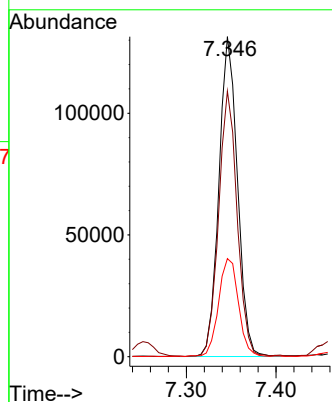
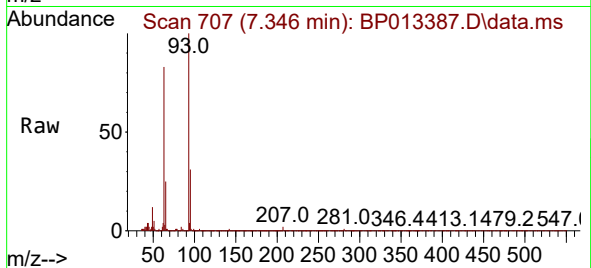




#10
Bis(2-Chloroethyl)ether
Concen: 5.094 ng/ul
RT: 7.346 min Scan# 707
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

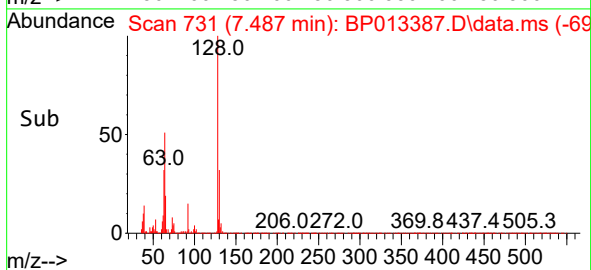
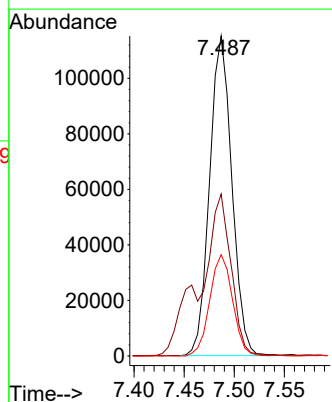
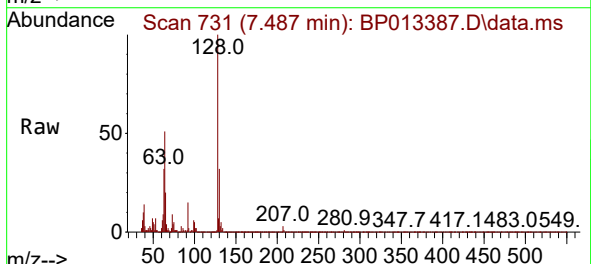
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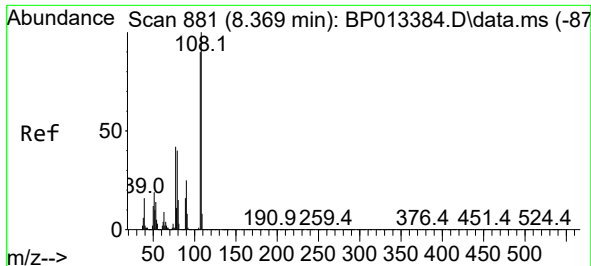
Tgt Ion: 93 Resp: 189005
Ion Ratio Lower Upper
93 100
63 83.0 59.8 89.8
95 30.7 26.4 39.6



#12
2-Chlorophenol
Concen: 4.923 ng/ul
RT: 7.487 min Scan# 731
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion: 128 Resp: 177676
Ion Ratio Lower Upper
128 100
64 50.6 34.9 52.3
130 31.7 25.8 38.6

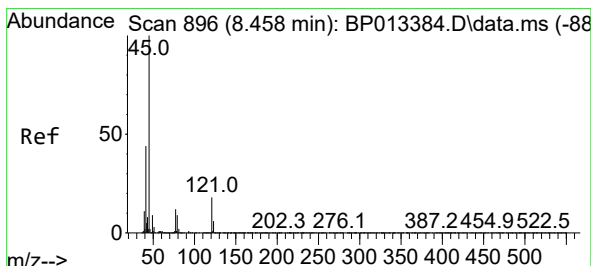
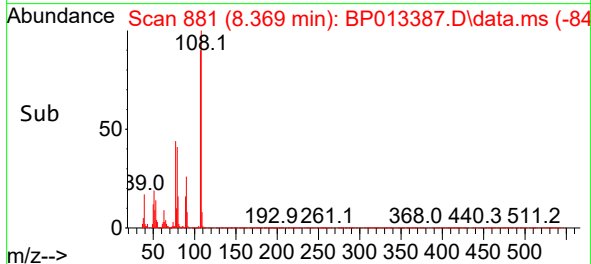
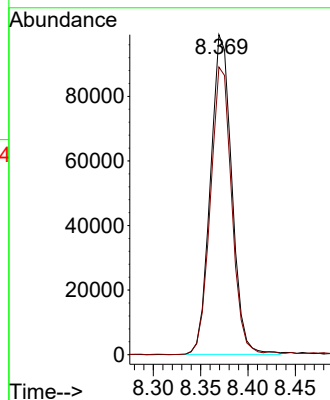
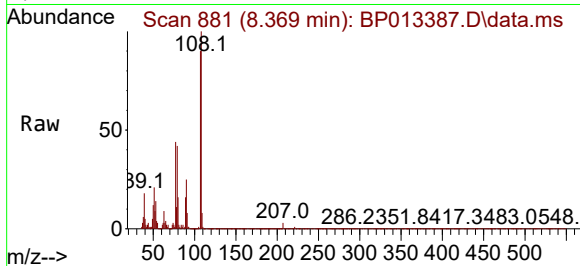




#13
2-Methylphenol
Concen: 4.417 ng/ul
RT: 8.369 min Scan# 881
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

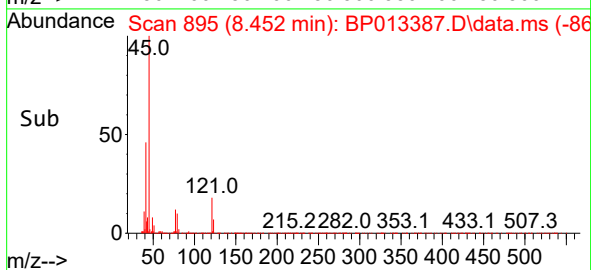
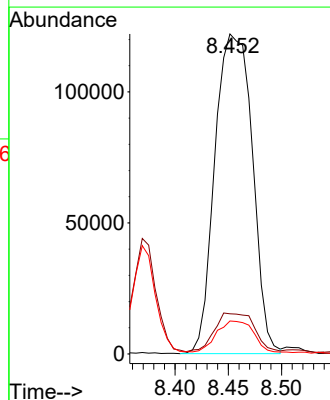
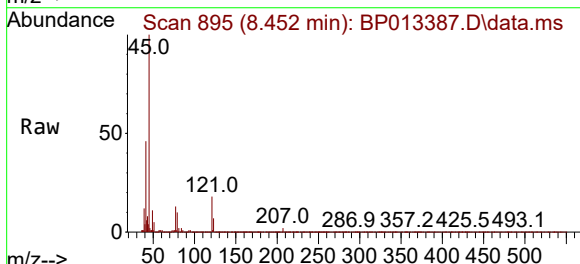
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

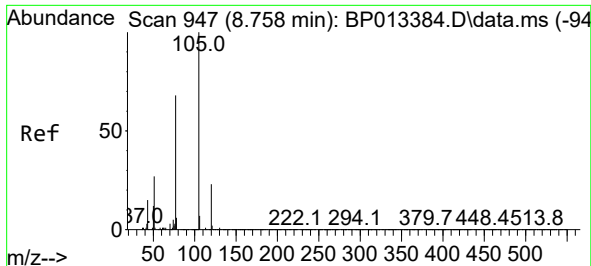
Tgt Ion:108 Resp: 155684
Ion Ratio Lower Upper
108 100
107 89.9 69.1 103.7



#14
2,2'-oxybis(1-Chloropropane)
Concen: 5.853 ng/ul
RT: 8.452 min Scan# 895
Delta R.T. -0.006 min
Lab File: BP013387.D
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Tgt Ion: 45 Resp: 298015
Ion Ratio Lower Upper
45 100
77 12.6 11.0 16.6
79 10.3 9.3 13.9

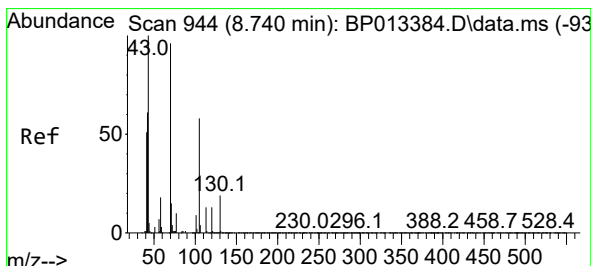
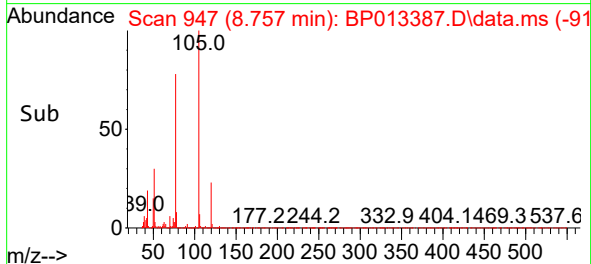
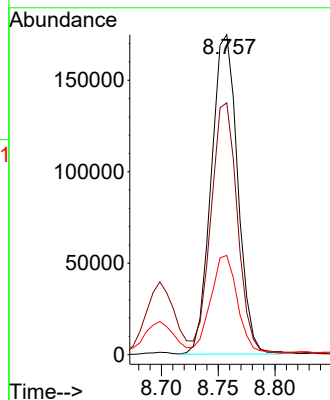
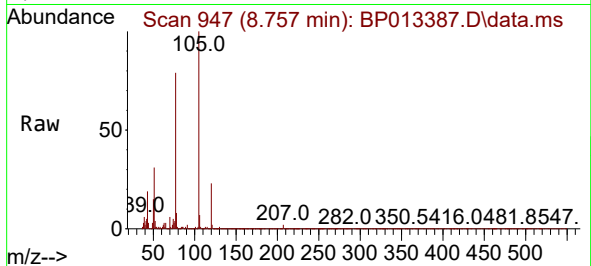




#16
Acetophenone
Concen: 5.042 ng/ul
RT: 8.757 min Scan# 947
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

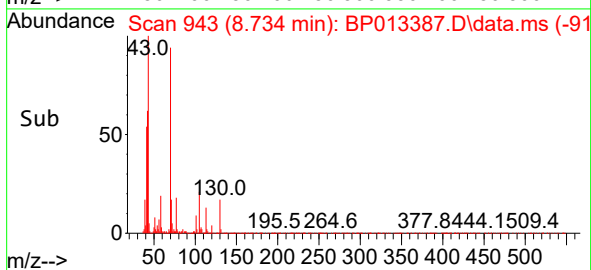
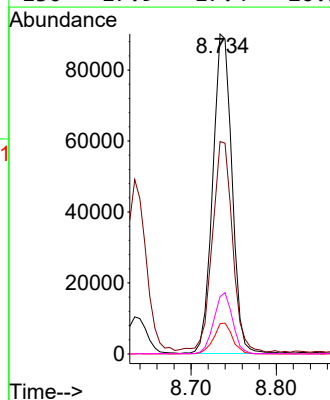
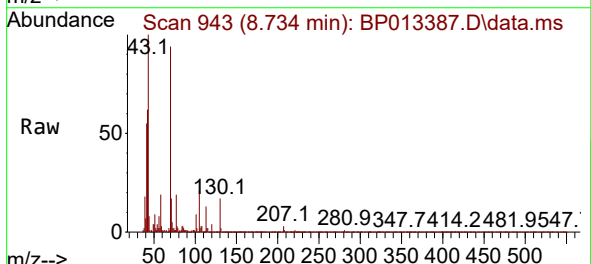
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

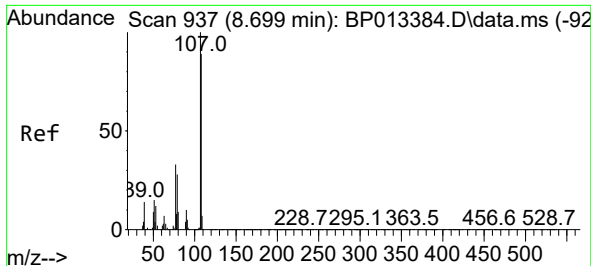
Tgt Ion:105 Resp: 283230
Ion Ratio Lower Upper
105 100
77 78.7 59.3 88.9
51 31.0 19.6 29.4#



#17
N-Nitroso-di-n-propylamine
Concen: 4.990 ng/ul
RT: 8.734 min Scan# 943
Delta R.T. -0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion: 70 Resp: 140958
Ion Ratio Lower Upper
70 100
42 66.3 45.5 68.3
101 9.4 7.9 11.9
130 17.9 17.4 26.2

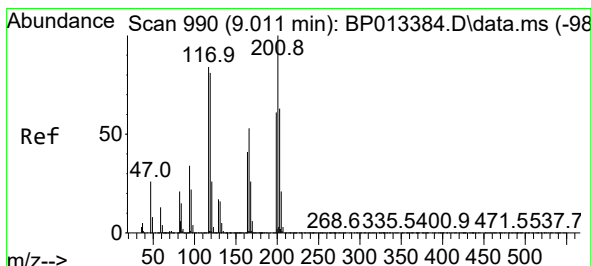
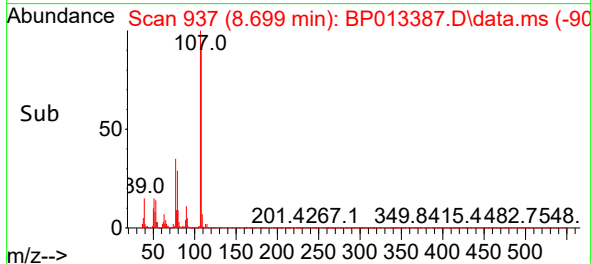
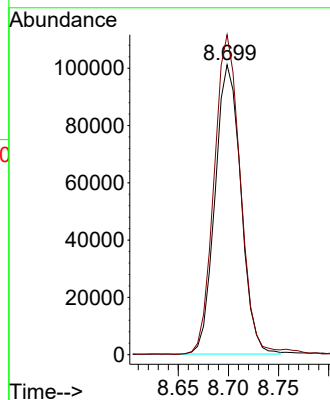
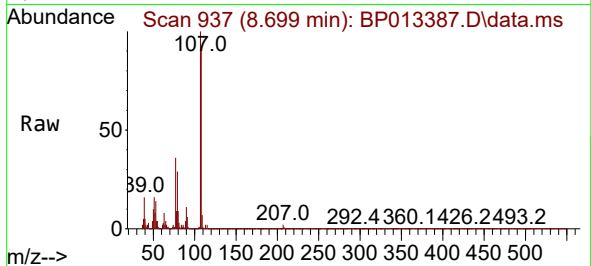




#18
4-Methylphenol
Concen: 4.636 ng/ul
RT: 8.699 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

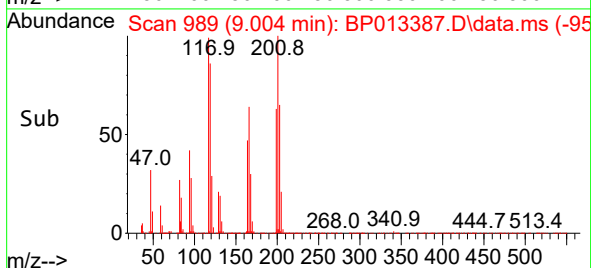
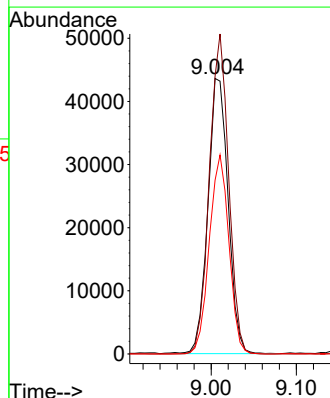
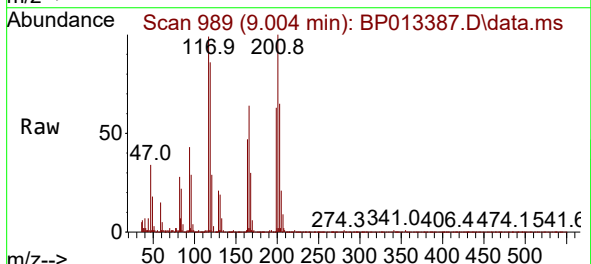
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

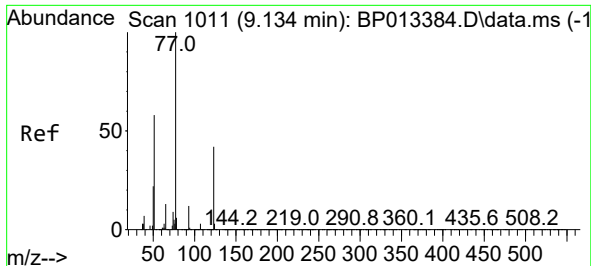
Tgt Ion:108 Resp: 180978
Ion Ratio Lower Upper
108 100
107 110.4 87.4 131.2



#19
Hexachloroethane
Concen: 4.968 ng/ul
RT: 9.004 min Scan# 989
Delta R.T. -0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:117 Resp: 71662
Ion Ratio Lower Upper
117 100
201 100.8 93.7 140.5
199 63.1 58.6 88.0

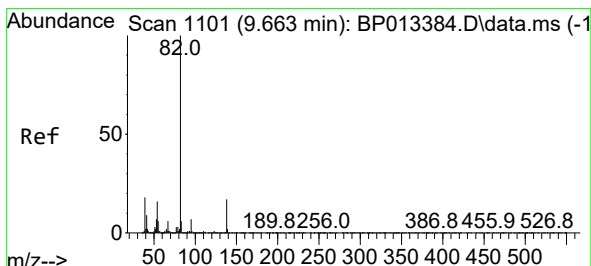
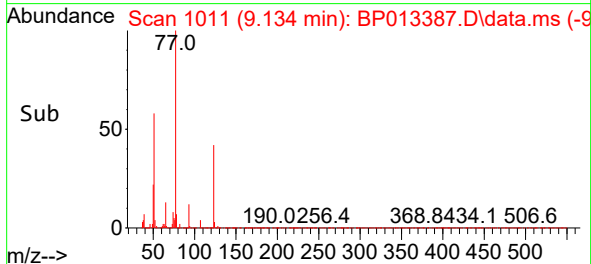
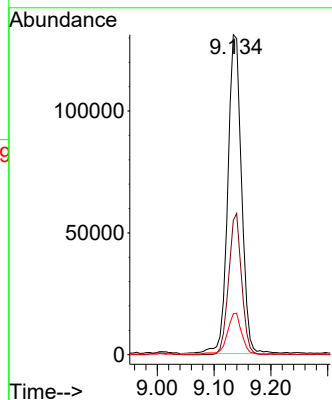
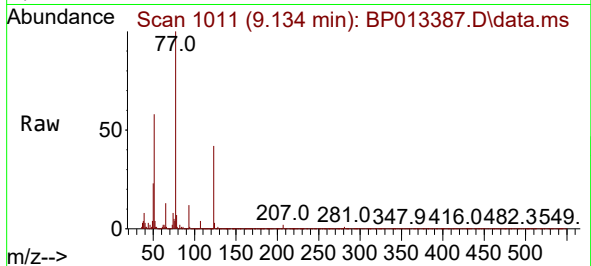




#22
Nitrobenzene
Concen: 5.516 ng/ul
RT: 9.134 min Scan# 1011
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

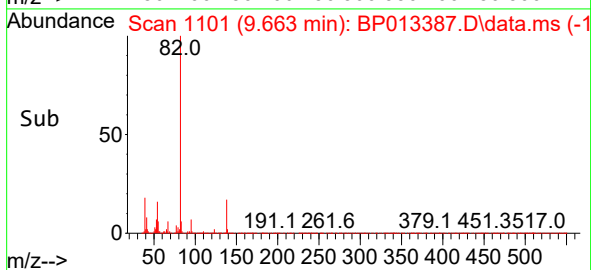
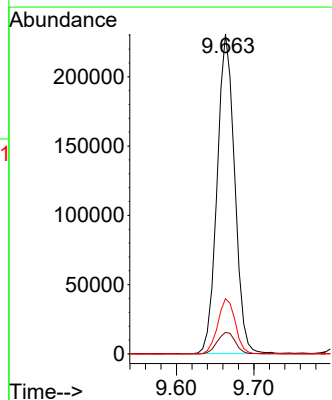
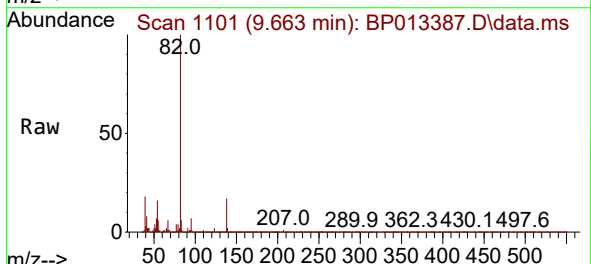
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

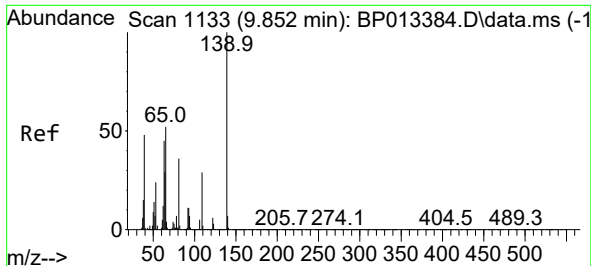
Tgt Ion: 77 Resp: 220709
Ion Ratio Lower Upper
77 100
123 42.0 38.3 57.5
65 12.8 10.3 15.5



#23
Isophorone
Concen: 4.488 ng/ul
RT: 9.663 min Scan# 1101
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion: 82 Resp: 363084
Ion Ratio Lower Upper
82 100
95 6.7 5.4 8.2
138 17.2 15.3 22.9

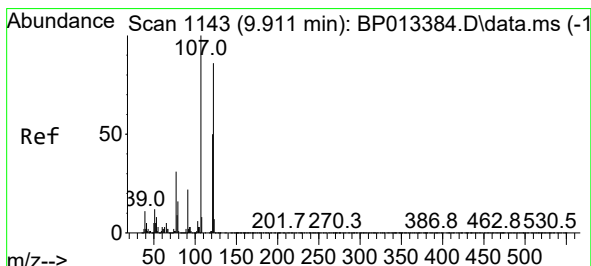
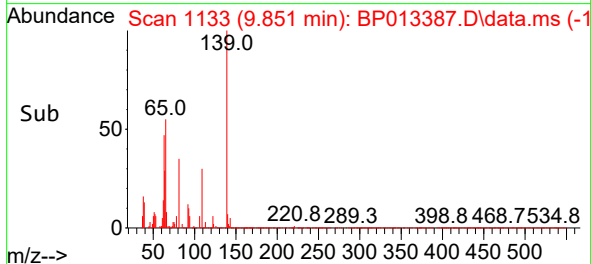
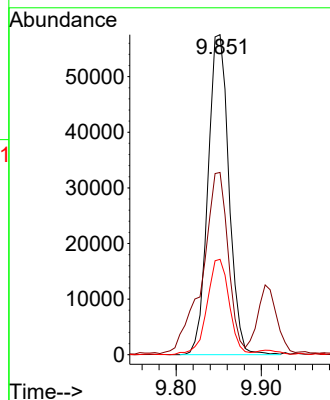
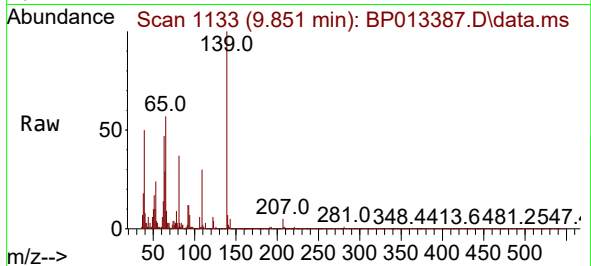




#25
2-Nitrophenol
Concen: 4.717 ng/ul
RT: 9.851 min Scan# 1133
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

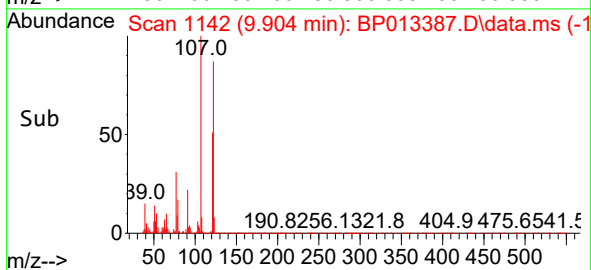
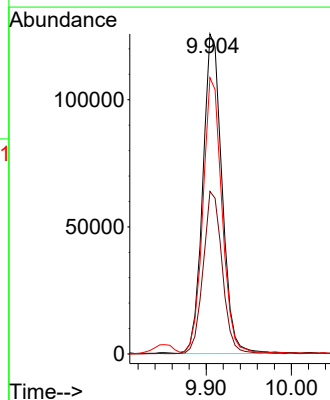
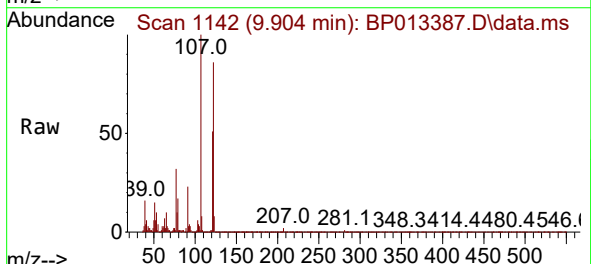
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

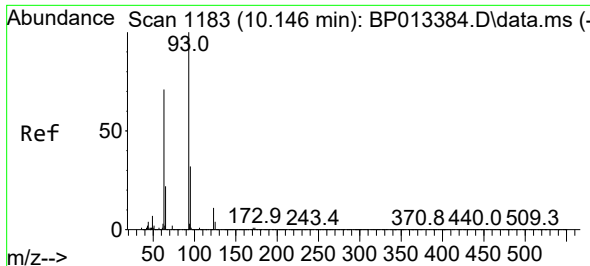
Tgt Ion:139 Resp: 98119
Ion Ratio Lower Upper
139 100
65 57.0 36.6 54.8#
109 29.8 21.6 32.4



#26
2,4-Dimethylphenol
Concen: 4.847 ng/ul
RT: 9.904 min Scan# 1142
Delta R.T. -0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:107 Resp: 196696
Ion Ratio Lower Upper
107 100
121 50.8 41.8 62.6
122 86.4 72.6 108.8

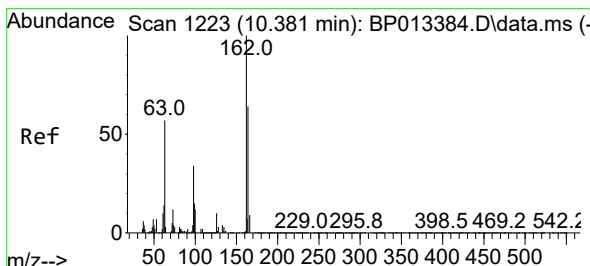
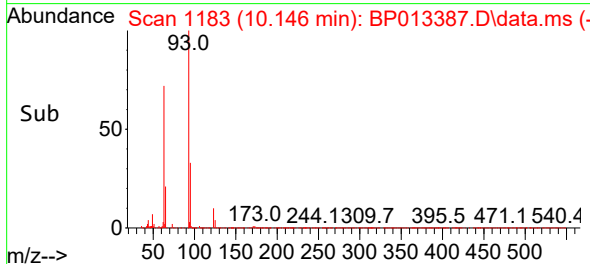
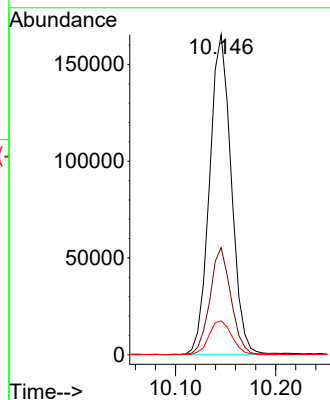
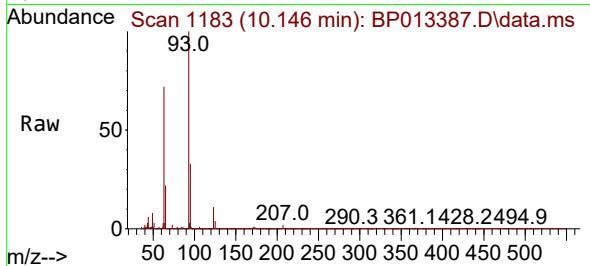




#27
Bis(2-Chloroethoxy)methane
Concen: 4.812 ng/ul
RT: 10.146 min Scan# 1183
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

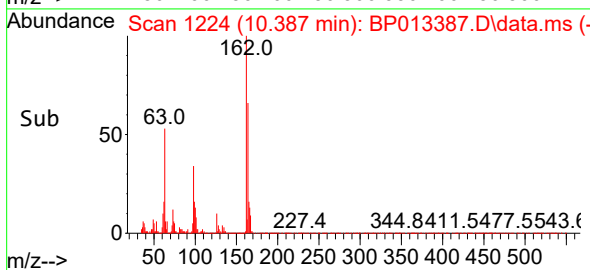
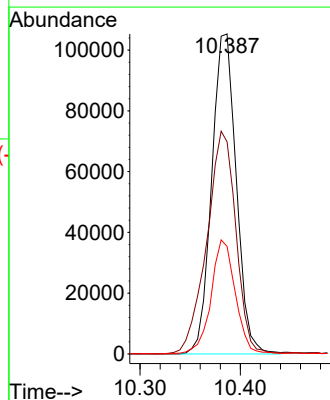
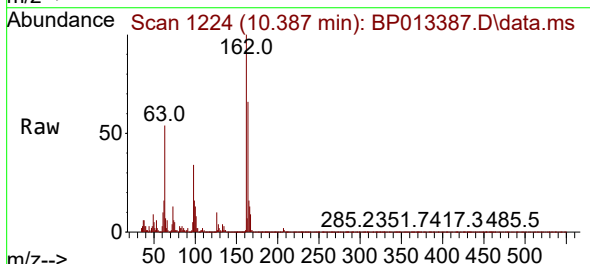
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

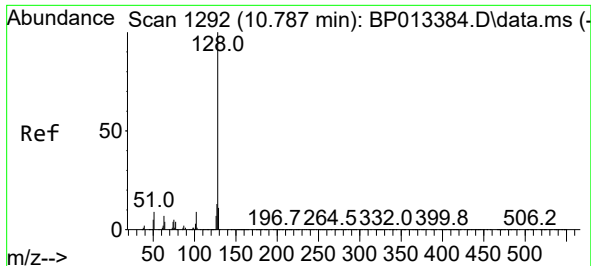
Tgt Ion: 93 Resp: 248917
Ion Ratio Lower Upper
93 100
95 33.5 26.0 39.0
123 10.5 9.2 13.8



#29
2,4-Dichlorophenol
Concen: 4.907 ng/ul
RT: 10.387 min Scan# 1224
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:162 Resp: 179221
Ion Ratio Lower Upper
162 100
164 66.3 52.5 78.7
98 33.6 26.6 39.8

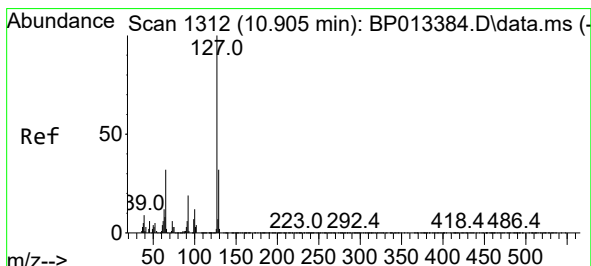
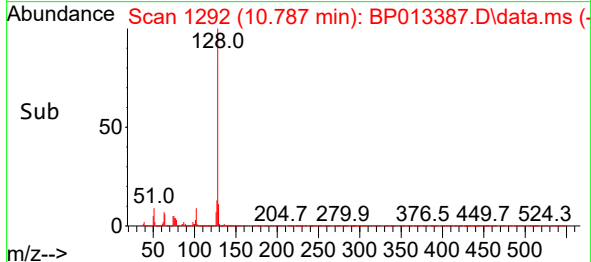
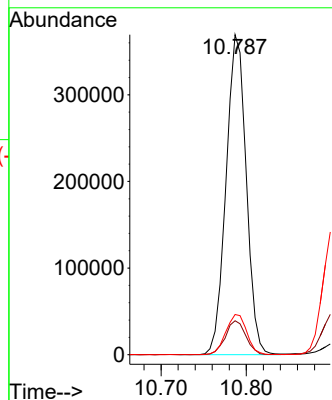
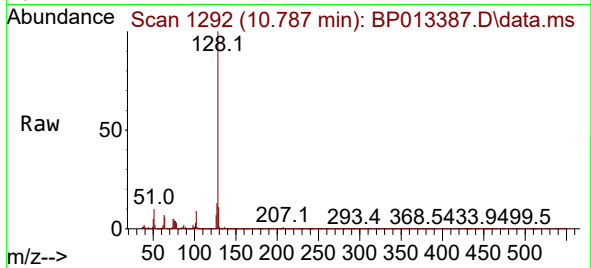




#30
Naphthalene
Concen: 5.009 ng/ul
RT: 10.787 min Scan# 1292
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

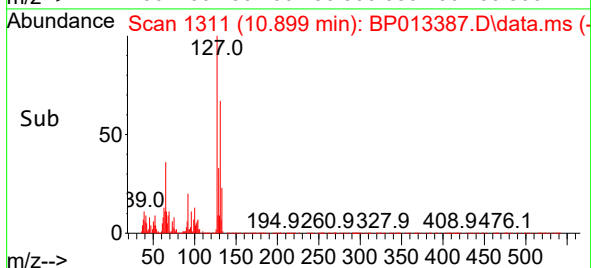
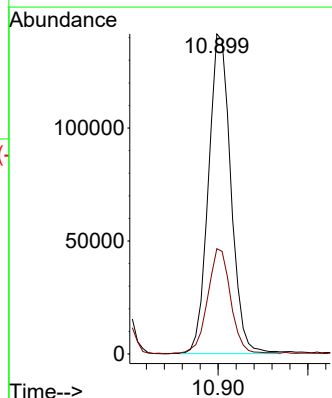
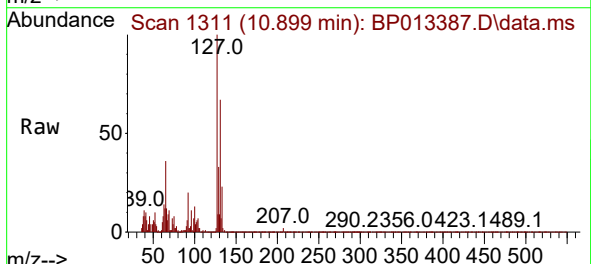
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

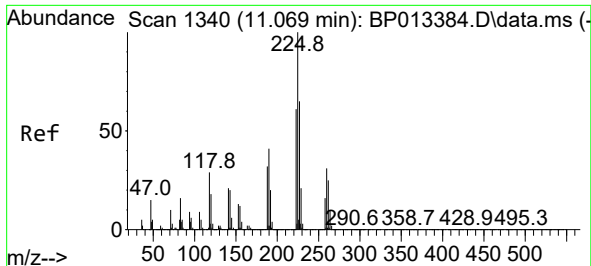
Tgt Ion:128 Resp: 607949
Ion Ratio Lower Upper
128 100
129 10.6 8.7 13.1
127 12.5 10.4 15.6



#32
4-Chloroaniline
Concen: 4.710 ng/ul
RT: 10.899 min Scan# 1311
Delta R.T. -0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:127 Resp: 245322
Ion Ratio Lower Upper
127 100
129 32.9 25.6 38.4

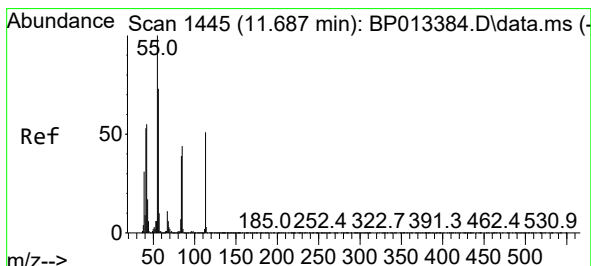
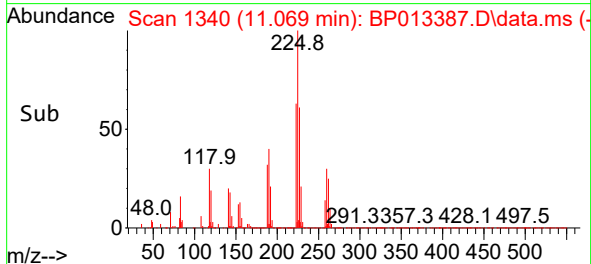
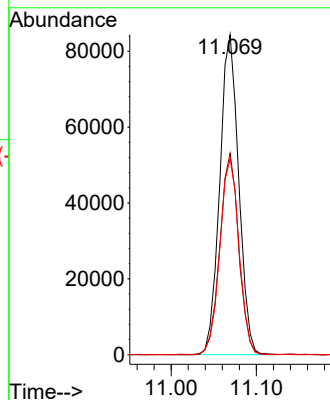
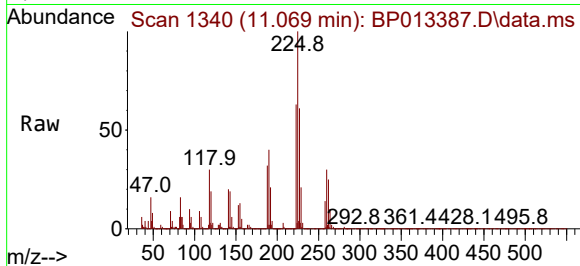




#33
Hexachlorobutadiene
Concen: 5.193 ng/ul
RT: 11.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

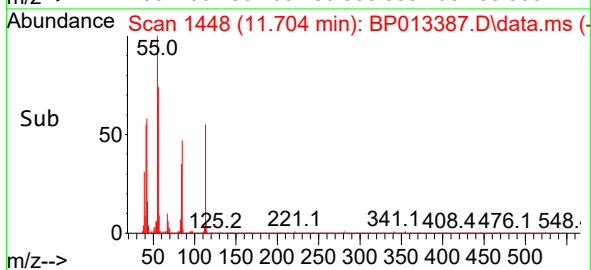
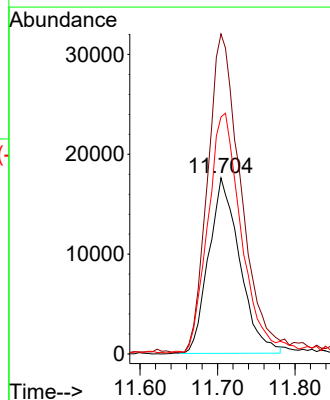
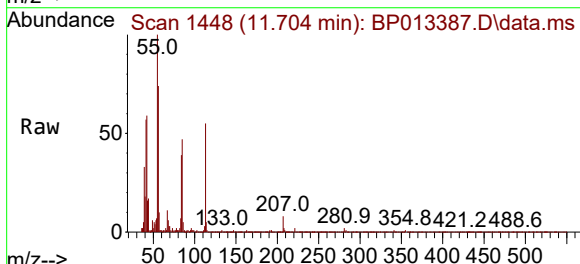
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

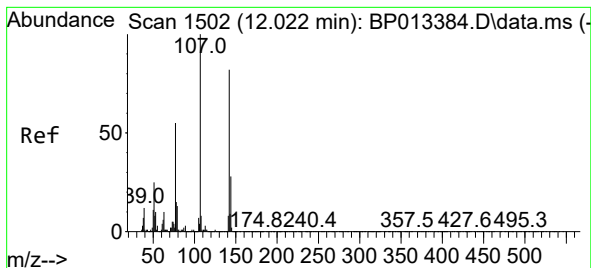
Tgt Ion:225 Resp: 130216
Ion Ratio Lower Upper
225 100
223 63.0 49.2 73.8
227 61.2 50.2 75.2



#34
Caprolactam
Concen: 3.943 ng/ul
RT: 11.704 min Scan# 1448
Delta R.T. 0.017 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:113 Resp: 49107
Ion Ratio Lower Upper
113 100
55 181.8 141.9 212.9
56 134.7 99.6 149.4

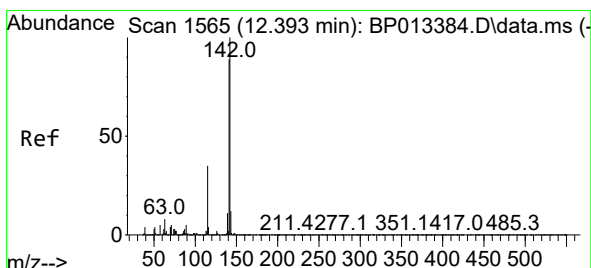
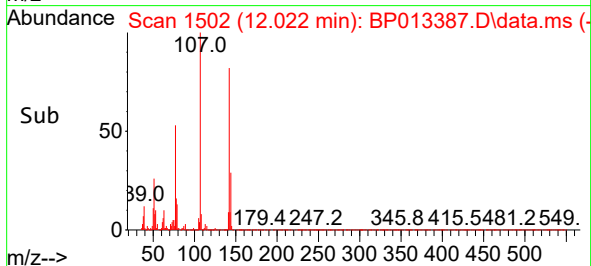
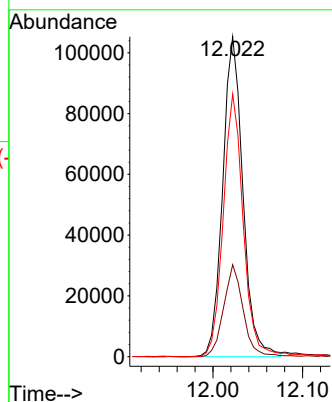
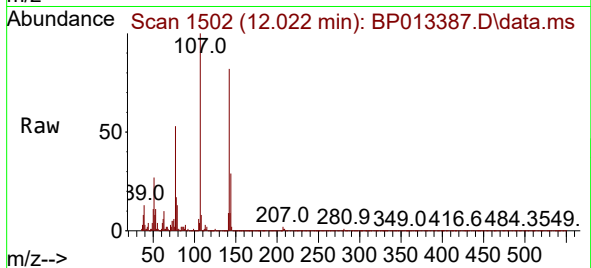




#35
4-Chloro-3-methylphenol
Concen: 4.415 ng/ul
RT: 12.022 min Scan# 1502
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

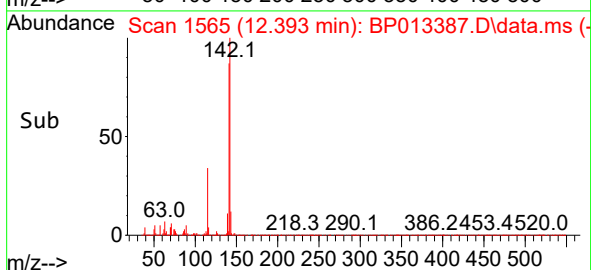
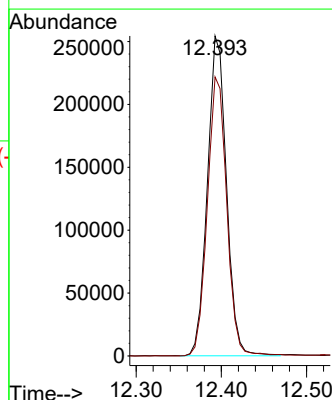
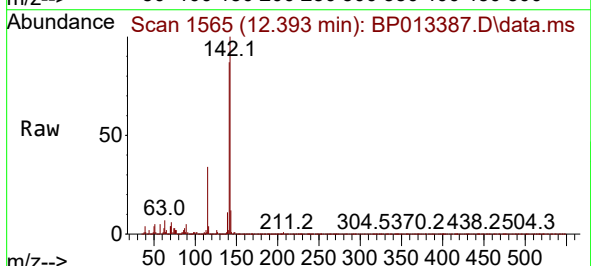
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-08

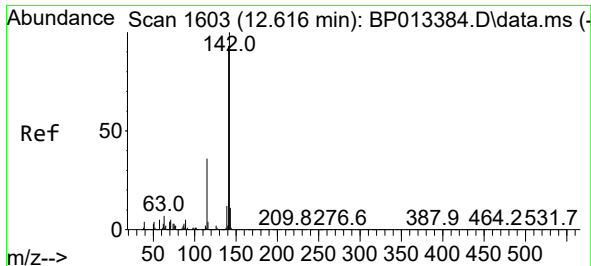
Tgt Ion:107 Resp: 164548
Ion Ratio Lower Upper
107 100
144 28.7 21.4 32.2
142 82.1 65.8 98.6



#36
2-Methylnaphthalene
Concen: 4.757 ng/ul
RT: 12.393 min Scan# 1565
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:142 Resp: 396101
Ion Ratio Lower Upper
142 100
141 87.2 70.8 106.2





#37

1-Methylnaphthalene

Concen: 3.680 ng/ul

RT: 12.616 min Scan# 1603

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

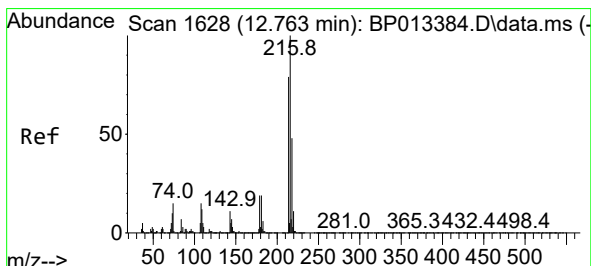
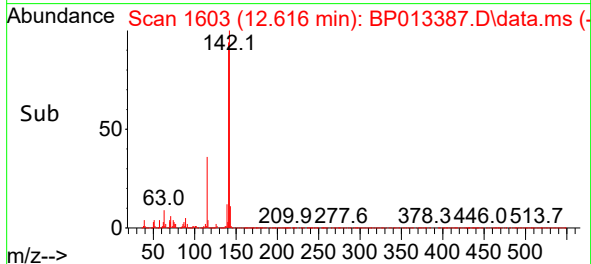
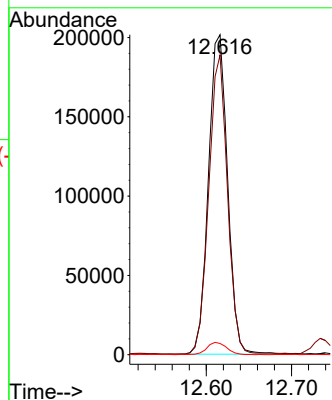
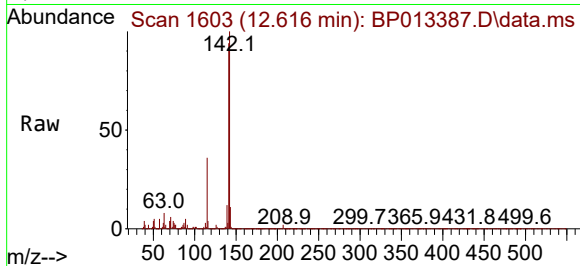
Tgt Ion:142 Resp: 315146

Ion Ratio Lower Upper

142 100

141 93.7 72.7 109.1

116 3.5 2.7 4.1



#39

1,2,4,5-Tetrachlorobenzene

Concen: 4.908 ng/ul

RT: 12.763 min Scan# 1628

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Tgt Ion:216 Resp: 245612

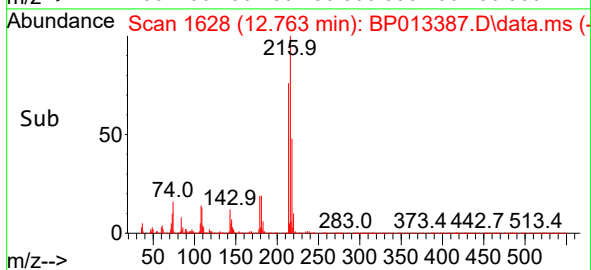
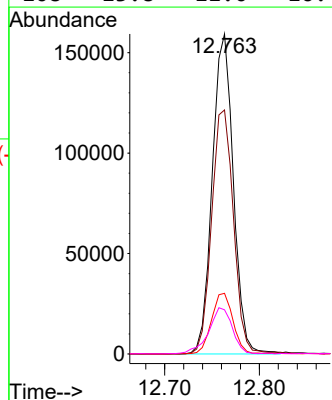
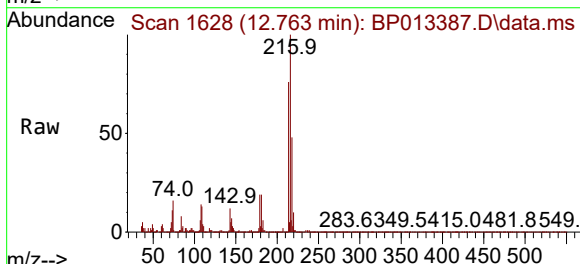
Ion Ratio Lower Upper

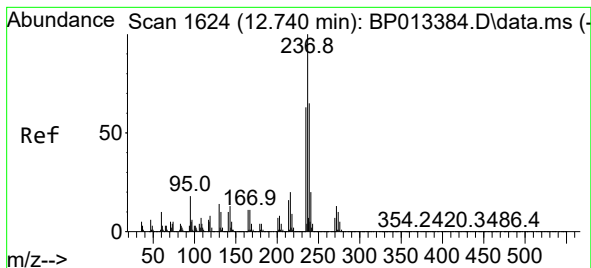
216 100

214 76.3 61.9 92.9

179 19.0 15.0 22.6

108 13.8 11.0 16.4





#40

Hexachlorocyclopentadiene

Concen: 3.833 ng/ul

RT: 12.734 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

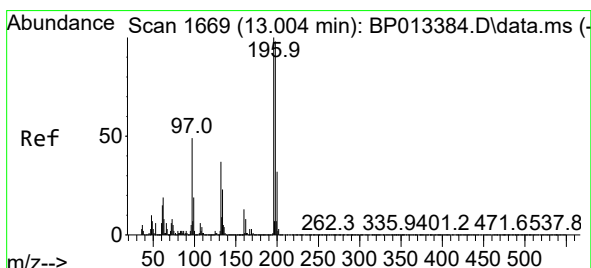
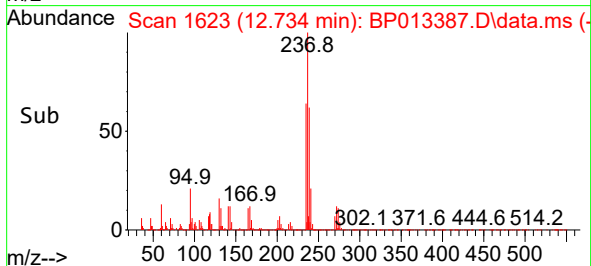
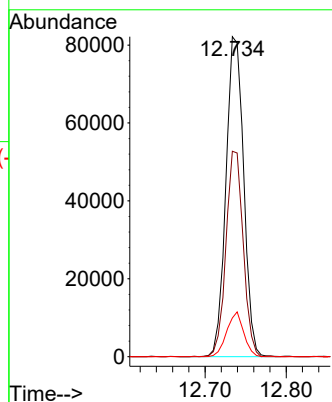
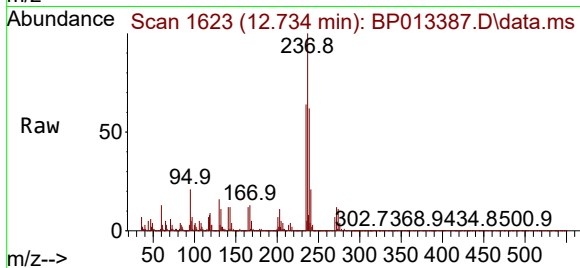
Tgt Ion:237 Resp: 124811

Ion Ratio Lower Upper

237 100

235 64.2 49.7 74.5

272 12.1 10.8 16.2



#41

2,4,6-Trichlorophenol

Concen: 4.262 ng/ul

RT: 13.004 min Scan# 1669

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

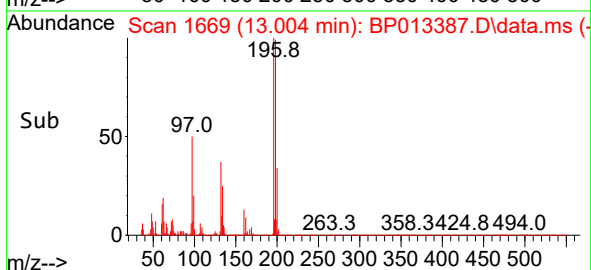
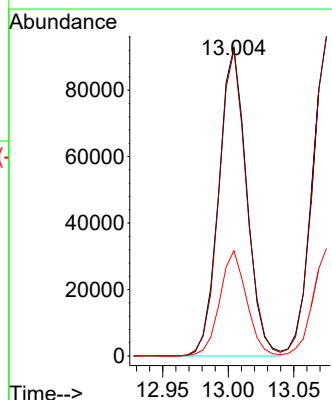
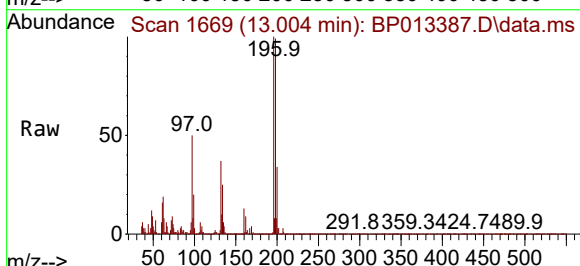
Tgt Ion:196 Resp: 137070

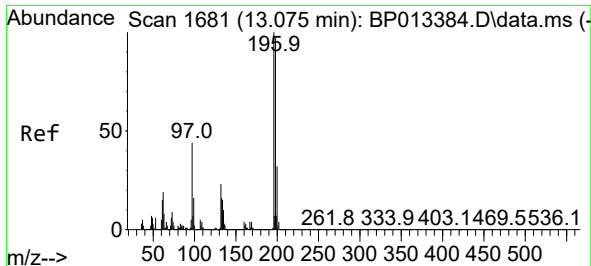
Ion Ratio Lower Upper

196 100

198 99.1 77.0 115.6

200 34.1 25.3 37.9

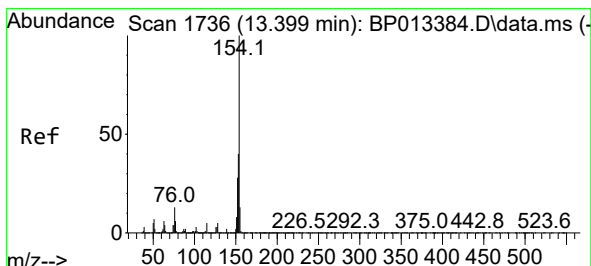
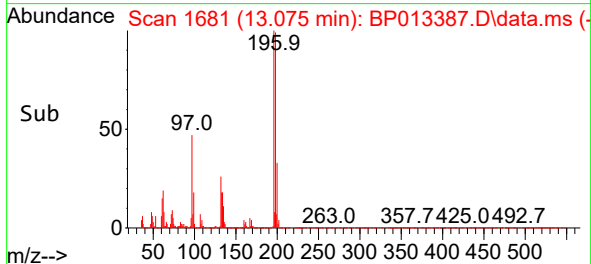
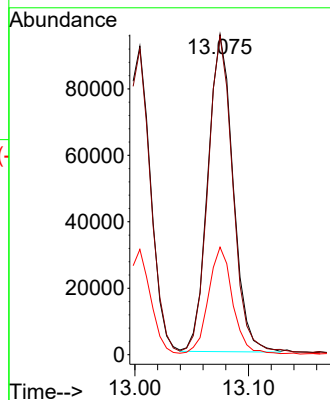
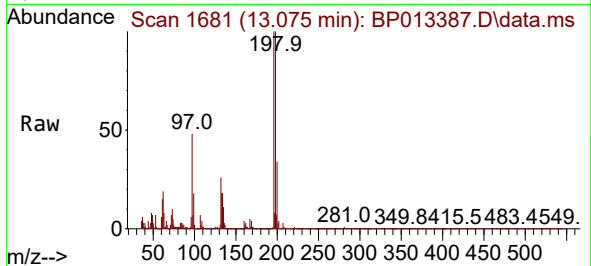




#42
2,4,5-Trichlorophenol
Concen: 4.263 ng/ul
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

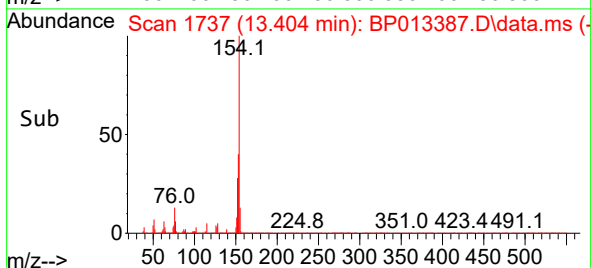
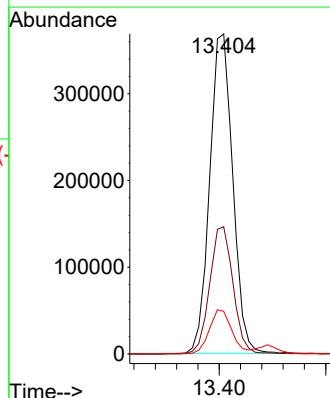
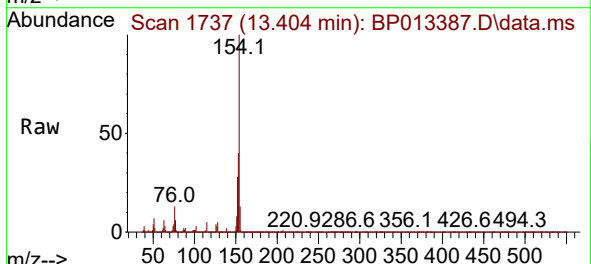
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

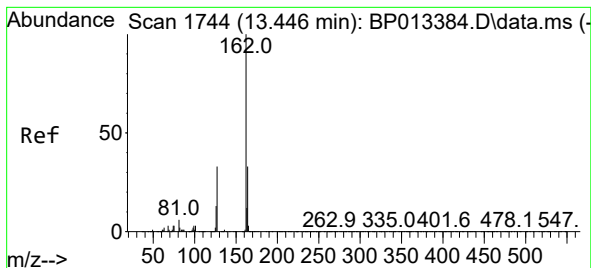
Tgt Ion:196 Resp: 147274
Ion Ratio Lower Upper
196 100
198 99.6 77.1 115.7
200 33.6 25.4 38.2



#43
1,1'-Biphenyl
Concen: 4.738 ng/ul
RT: 13.404 min Scan# 1737
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:154 Resp: 553005
Ion Ratio Lower Upper
154 100
153 39.7 31.5 47.3
76 13.3 9.6 14.4





#44

2-Chloronaphthalene

Concen: 4.782 ng/ul

RT: 13.445 min Scan# 1

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

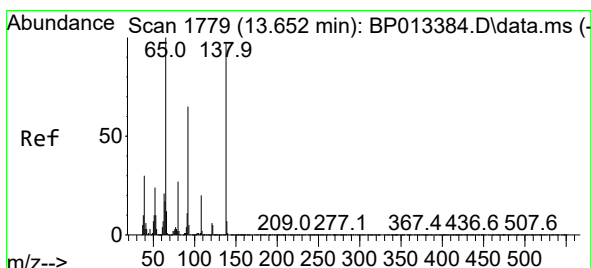
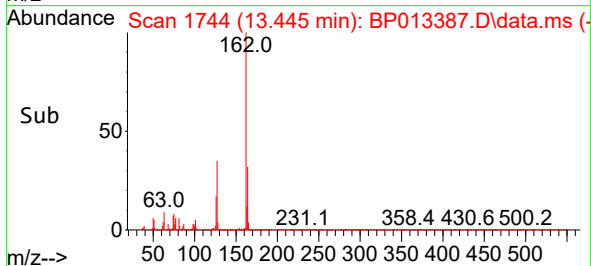
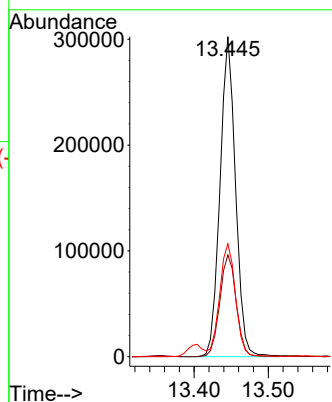
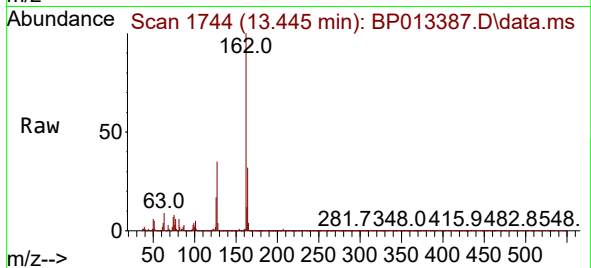
Tgt Ion:162 Resp: 439232

Ion Ratio Lower Upper

162 100

164 31.8 26.3 39.5

127 35.3 29.3 43.9



#45

2-Nitroaniline

Concen: 4.296 ng/ul

RT: 13.657 min Scan# 1780

Delta R.T. 0.006 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

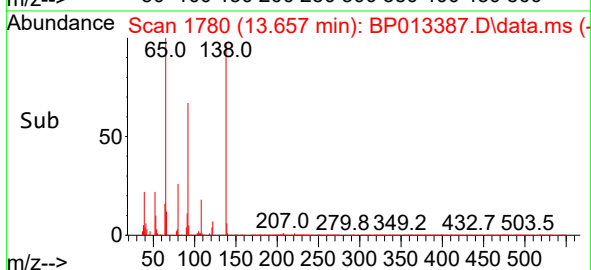
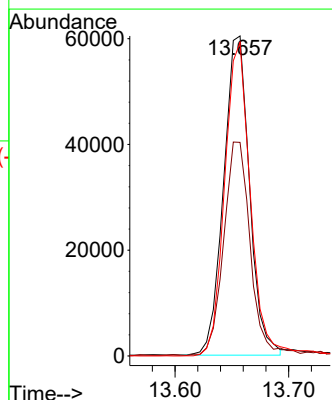
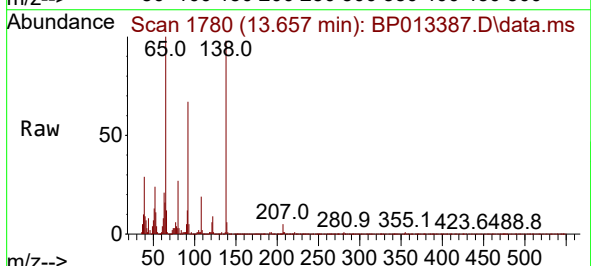
Tgt Ion: 65 Resp: 95683

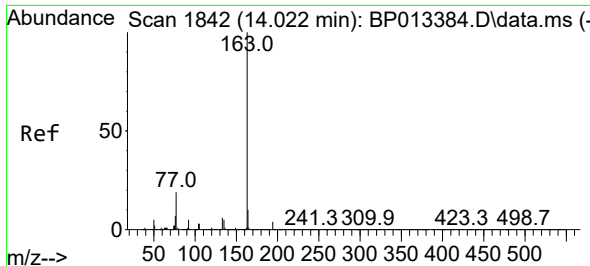
Ion Ratio Lower Upper

65 100

92 66.8 56.4 84.6

138 98.0 90.3 135.5

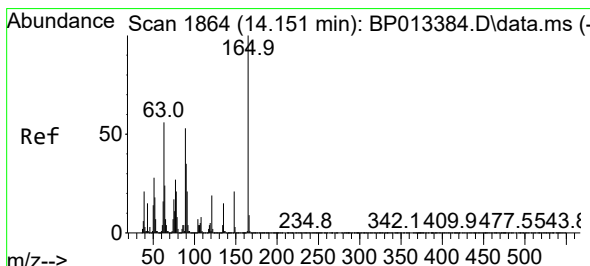
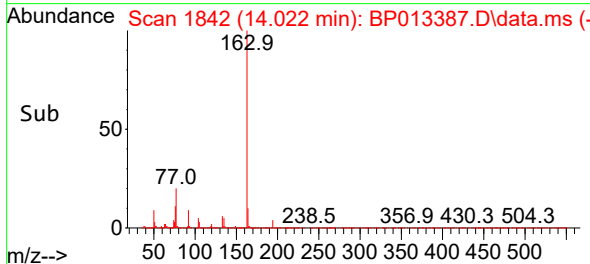
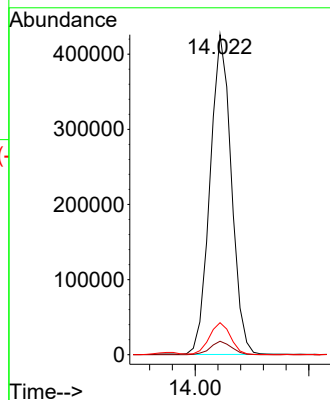
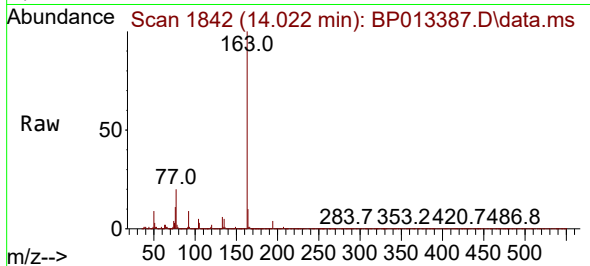




#47
Dimethylphthalate
Concen: 4.676 ng/ul
RT: 14.022 min Scan# 1842
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

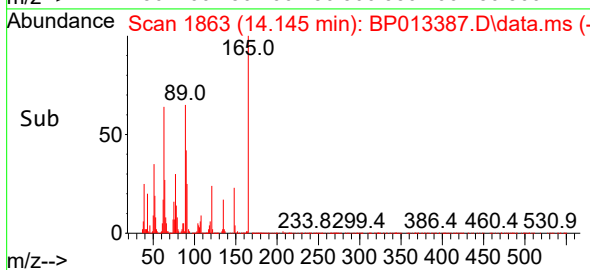
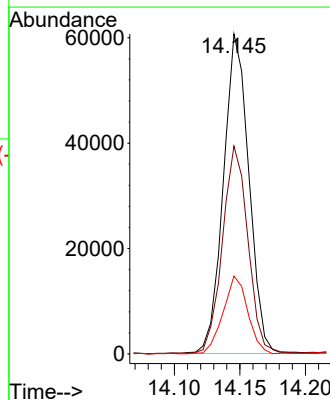
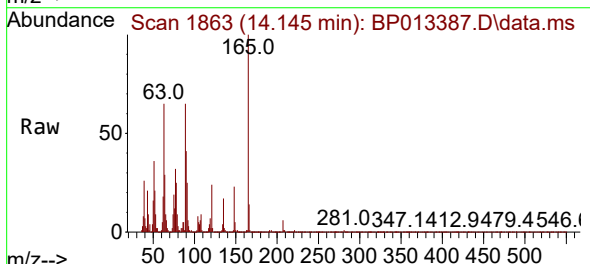
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

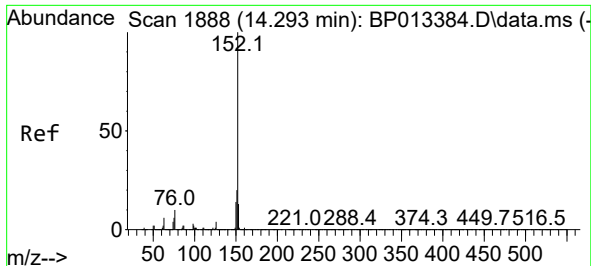
Tgt Ion:163 Resp: 553588
Ion Ratio Lower Upper
163 100
194 4.2 3.4 5.0
164 10.0 8.3 12.5



#48
2,6-Dinitrotoluene
Concen: 3.718 ng/ul
RT: 14.145 min Scan# 1863
Delta R.T. -0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:165 Resp: 81790
Ion Ratio Lower Upper
165 100
89 64.9 43.0 64.4#
121 24.3 16.1 24.1#

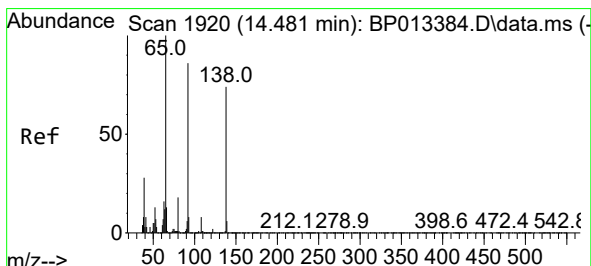
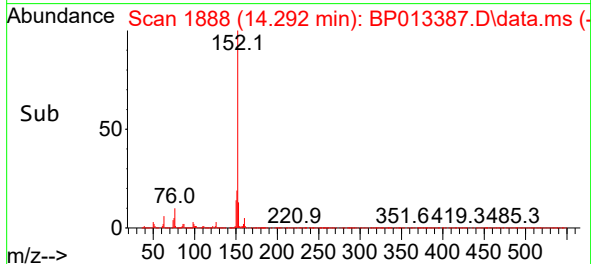
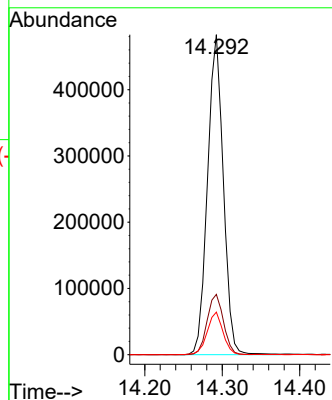
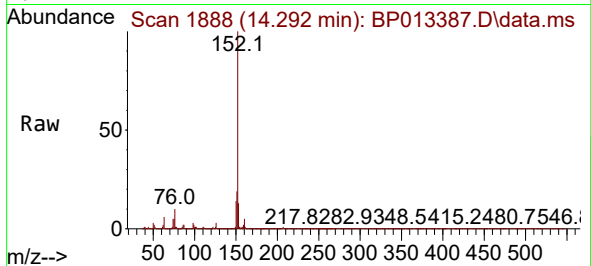




#50
Acenaphthylene
Concen: 4.835 ng/ul
RT: 14.292 min Scan# 1888
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

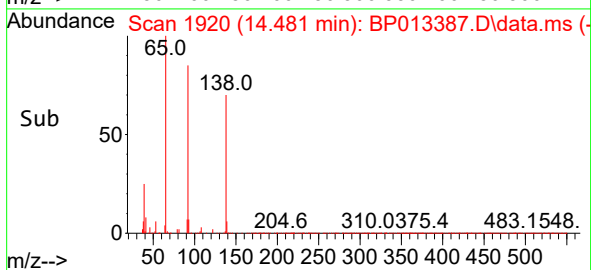
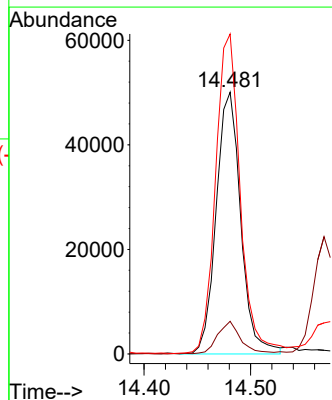
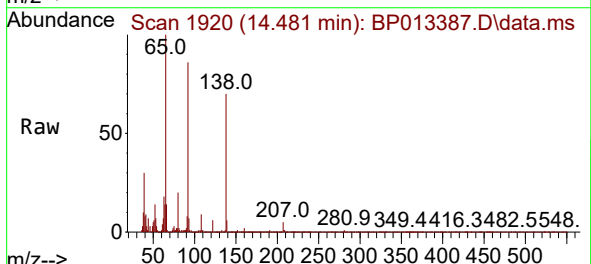
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-08

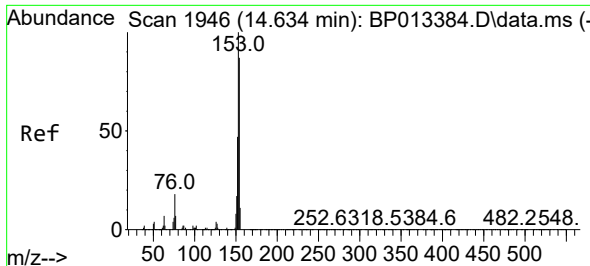
Tgt Ion:152 Resp: 682167
Ion Ratio Lower Upper
152 100
151 18.9 15.8 23.6
153 13.3 10.6 16.0



#51
3-Nitroaniline
Concen: 3.862 ng/ul
RT: 14.481 min Scan# 1920
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:138 Resp: 80222
Ion Ratio Lower Upper
138 100
108 12.5 8.6 13.0
92 122.3 88.4 132.6

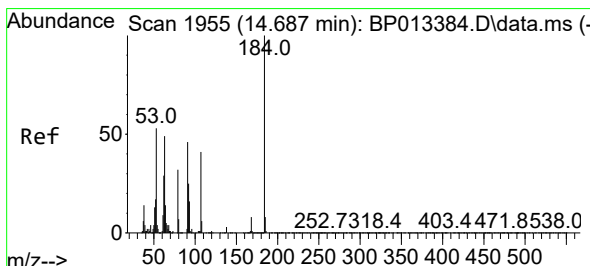
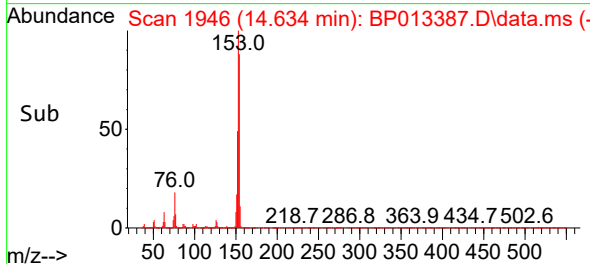
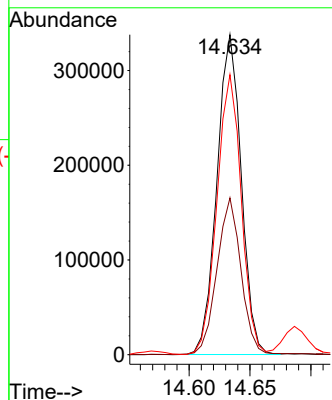
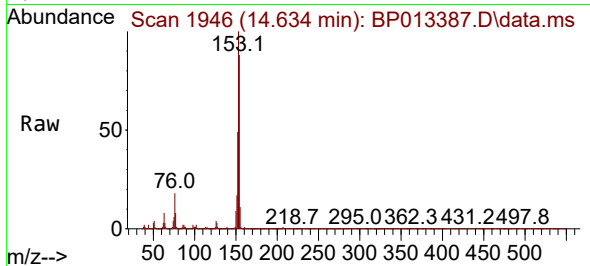




#52
Acenaphthene
Concen: 4.812 ng/ul
RT: 14.634 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

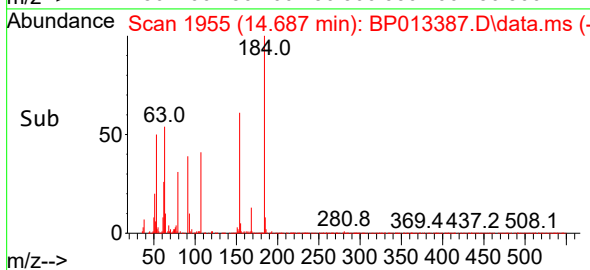
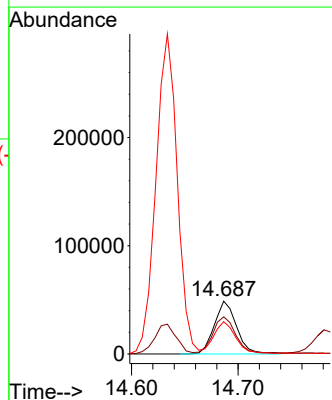
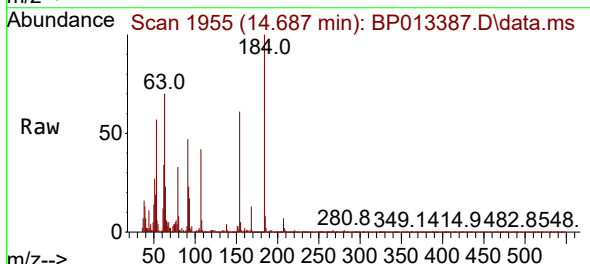
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-08

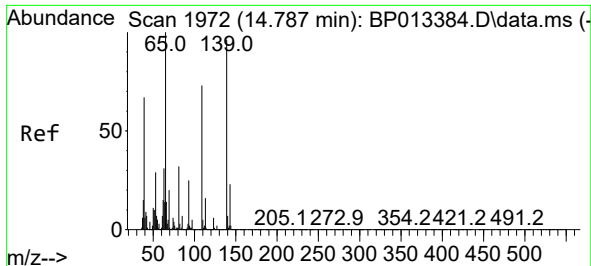
Tgt Ion:153 Resp: 470519
Ion Ratio Lower Upper
153 100
152 49.0 38.2 57.4
154 87.5 70.8 106.2



#53
2,4-Dinitrophenol
Concen: 4.708 ng/ul
RT: 14.687 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:184 Resp: 70800
Ion Ratio Lower Upper
184 100
63 70.3 48.4 72.6
154 61.1 45.5 68.3

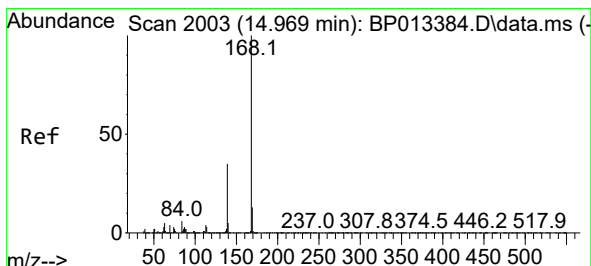
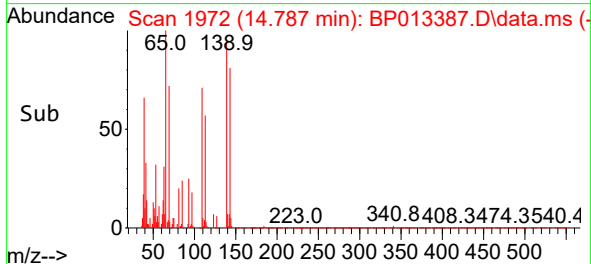
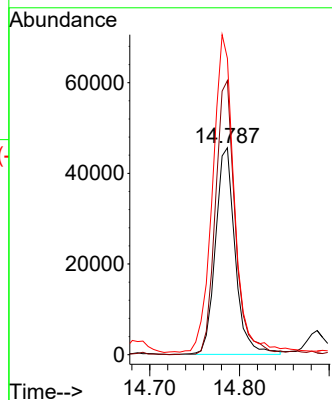
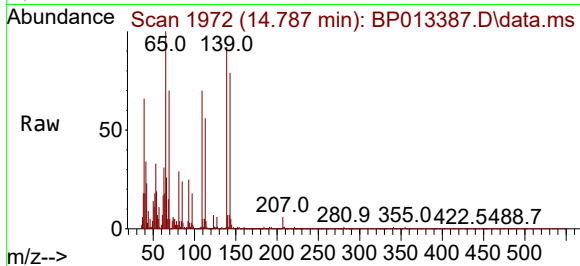




#55
4-Nitrophenol
Concen: 4.728 ng/ul
RT: 14.787 min Scan# 1972
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

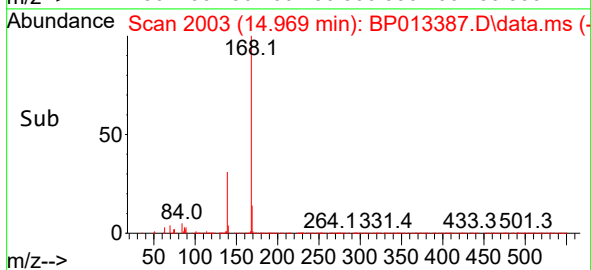
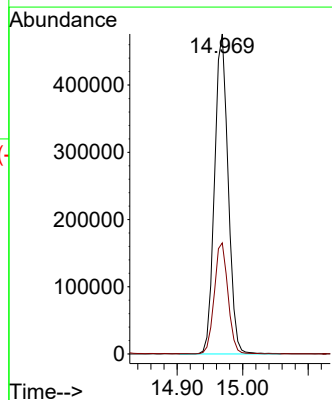
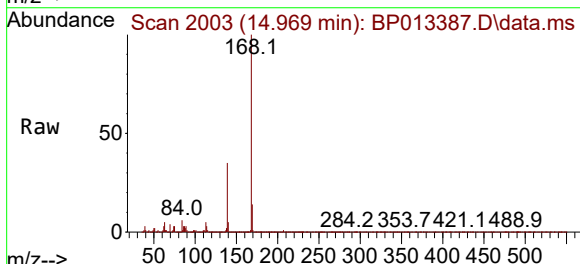
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-08

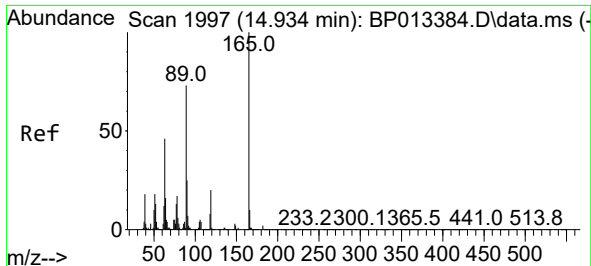
Tgt Ion:109 Resp: 69309
Ion Ratio Lower Upper
109 100
139 132.5 120.8 181.2
65 143.2 107.9 161.9



#56
Dibenzofuran
Concen: 4.925 ng/ul
RT: 14.969 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:168 Resp: 684693
Ion Ratio Lower Upper
168 100
139 34.7 27.9 41.9

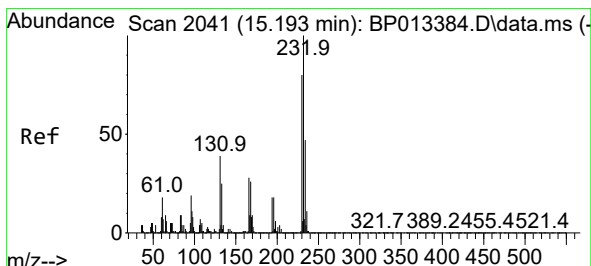
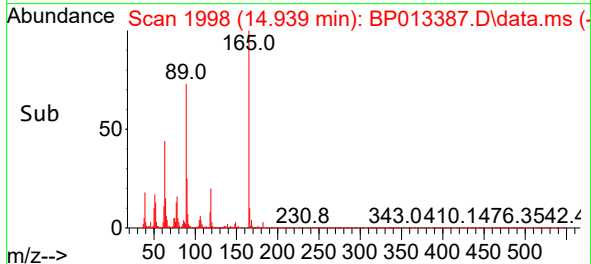
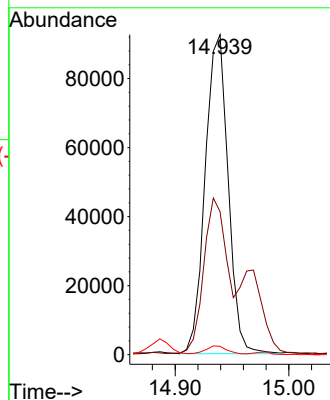
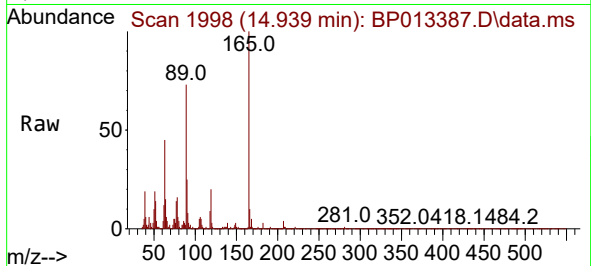




#57
2,4-Dinitrotoluene
Concen: 4.063 ng/ul
RT: 14.939 min Scan# 1997
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

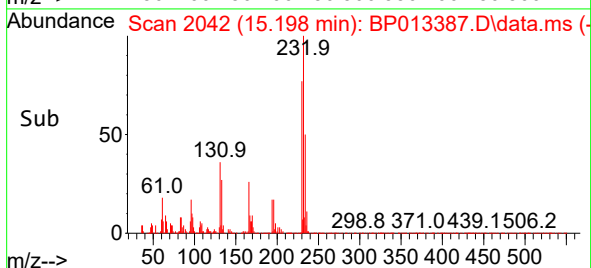
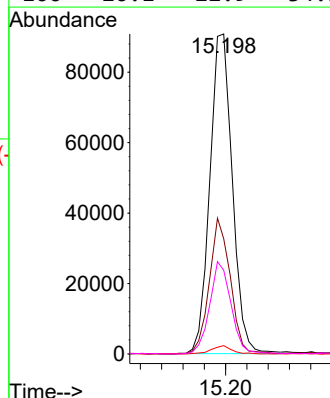
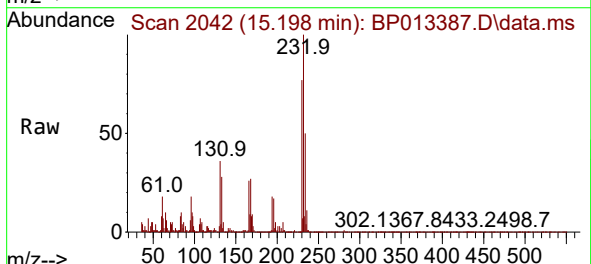
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

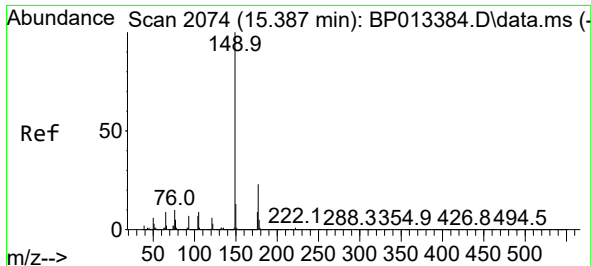
Tgt Ion:165 Resp: 129827
Ion Ratio Lower Upper
165 100
63 44.7 31.8 47.6
182 2.6 2.1 3.1



#58
2,3,4,6-Tetrachlorophenol
Concen: 4.222 ng/ul
RT: 15.198 min Scan# 2042
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:232 Resp: 133096
Ion Ratio Lower Upper
232 100
131 36.0 31.8 47.6
130 2.6 1.8 2.6
166 26.1 22.9 34.3

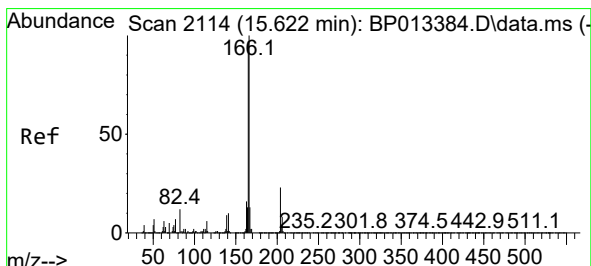
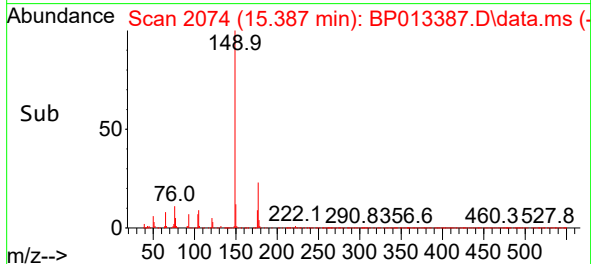
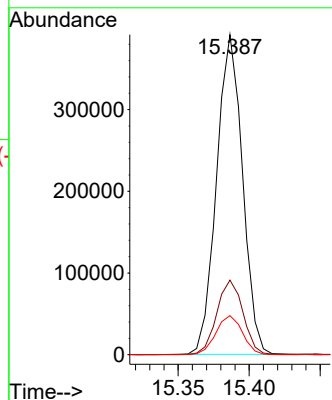
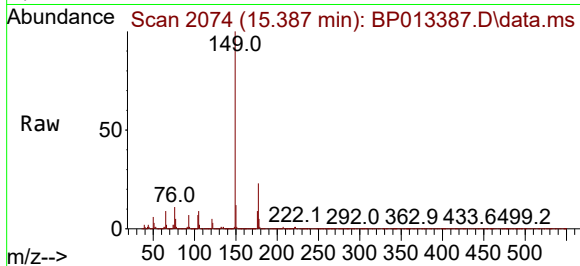




#59
Diethylphthalate
Concen: 4.315 ng/ul
RT: 15.387 min Scan# 2074
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

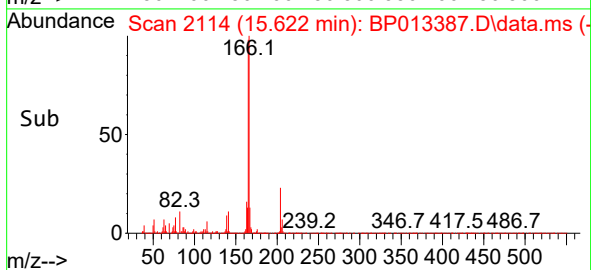
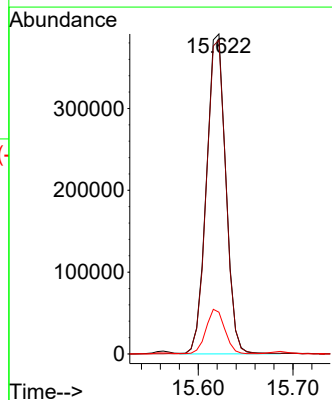
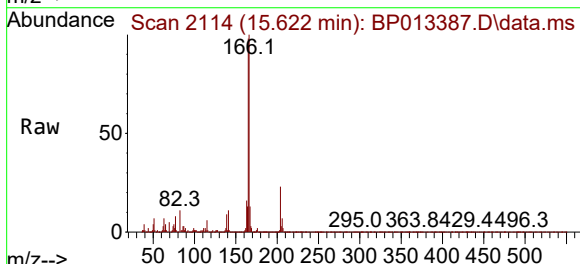
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT4-2022-08

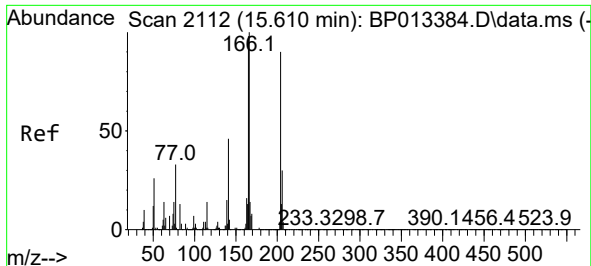
Tgt Ion:149 Resp: 496533
Ion Ratio Lower Upper
149 100
177 23.3 18.4 27.6
150 12.2 9.9 14.9



#61
Fluorene
Concen: 4.949 ng/ul
RT: 15.622 min Scan# 2114
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:166 Resp: 551703
Ion Ratio Lower Upper
166 100
165 98.1 77.4 116.2
167 13.0 10.6 16.0

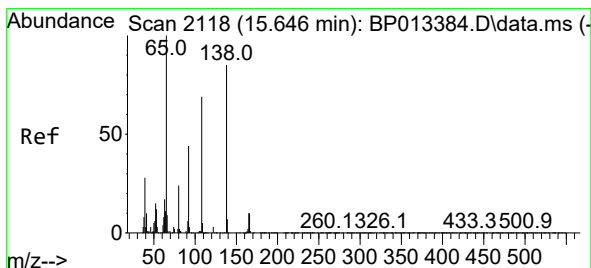
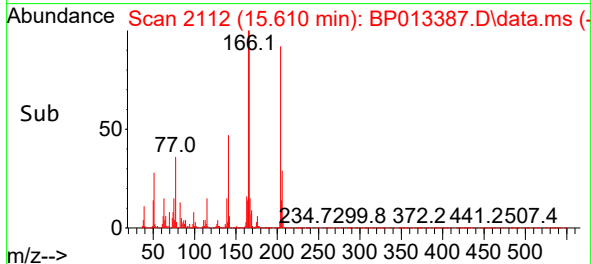
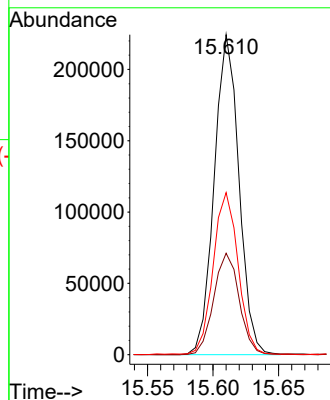
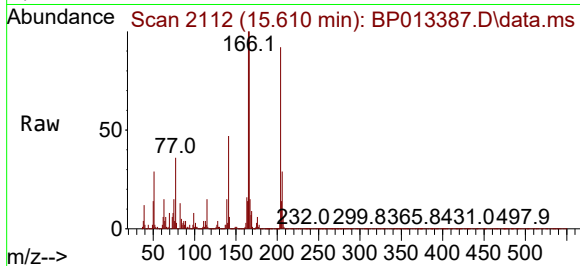




#62
4-Chlorophenyl-phenylether
Concen: 4.980 ng/ul
RT: 15.610 min Scan# 2112
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

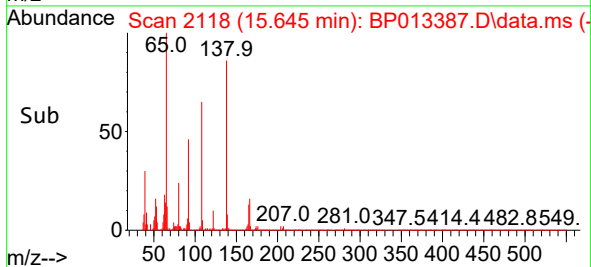
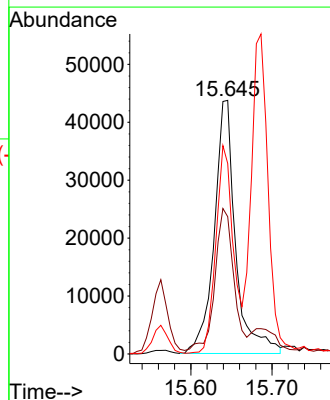
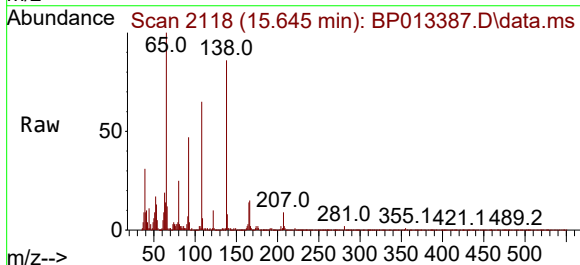
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

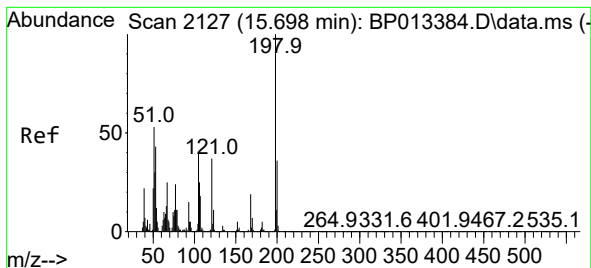
Tgt Ion:204 Resp: 293597
Ion Ratio Lower Upper
204 100
206 31.7 26.3 39.5
141 50.6 40.4 60.6



#63
4-Nitroaniline
Concen: 4.392 ng/ul
RT: 15.645 min Scan# 2118
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:138 Resp: 80284
Ion Ratio Lower Upper
138 100
92 54.1 39.0 58.4
108 75.1 55.1 82.7

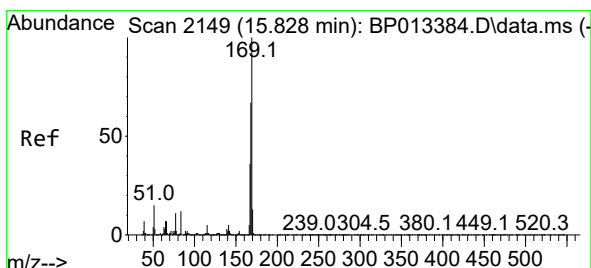
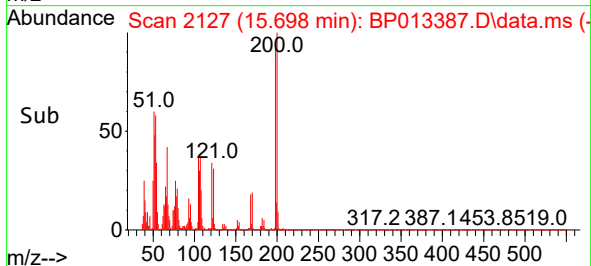
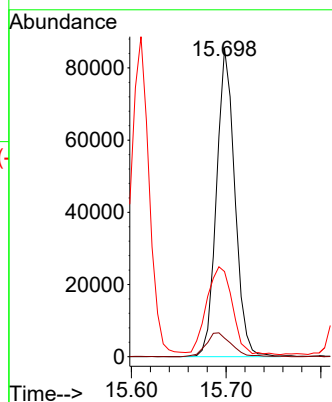
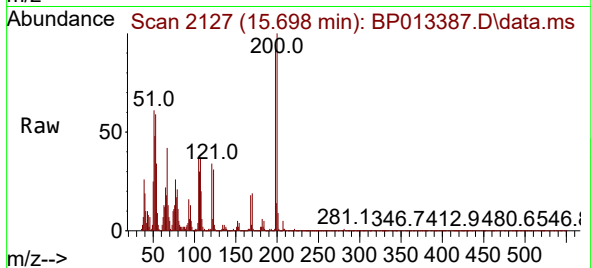




#66
4,6-Dinitro-2-methylphenol
Concen: 5.234 ng/ul
RT: 15.698 min Scan# 2127
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

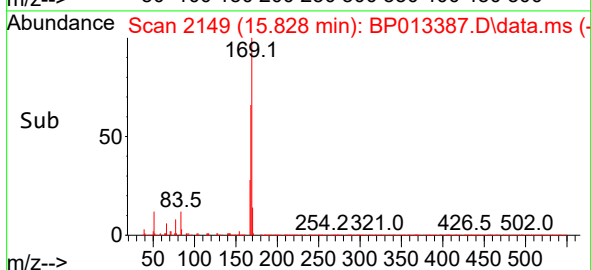
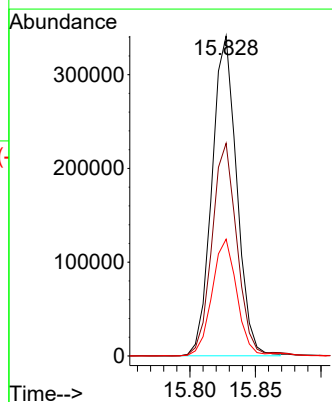
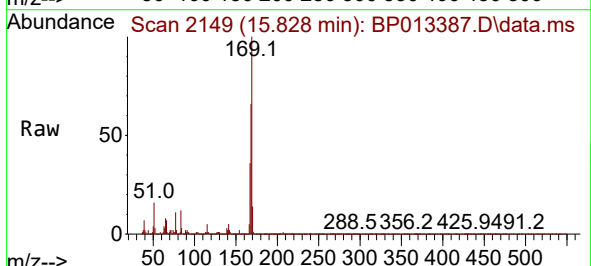
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

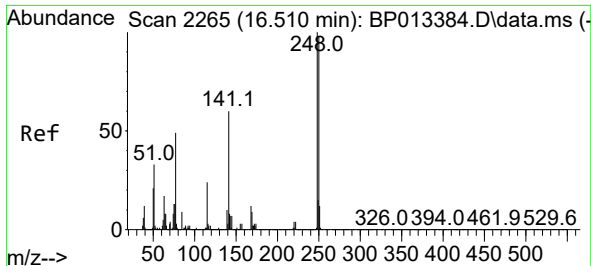
Tgt Ion:198 Resp: 114712
Ion Ratio Lower Upper
198 100
182 6.0 3.3 4.9#
77 27.6 16.6 25.0#



#67
N-Nitrosodiphenylamine
Concen: 4.639 ng/ul
RT: 15.828 min Scan# 2149
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:169 Resp: 448214
Ion Ratio Lower Upper
169 100
168 66.5 53.0 79.6
167 36.5 29.1 43.7

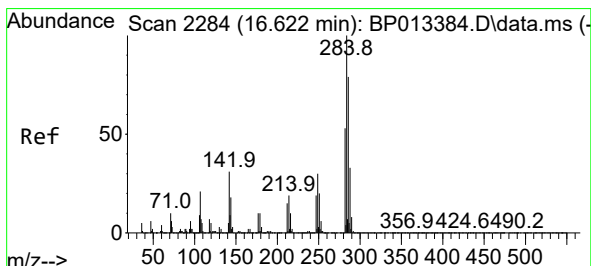
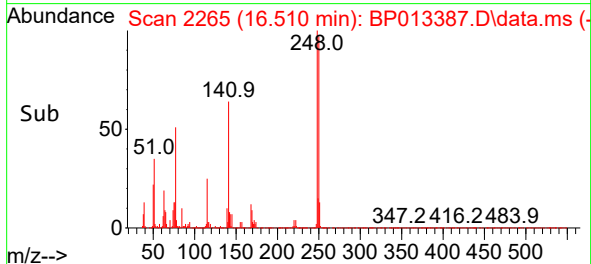
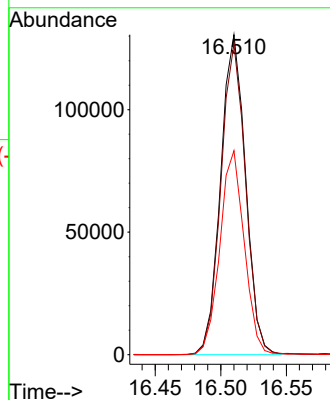
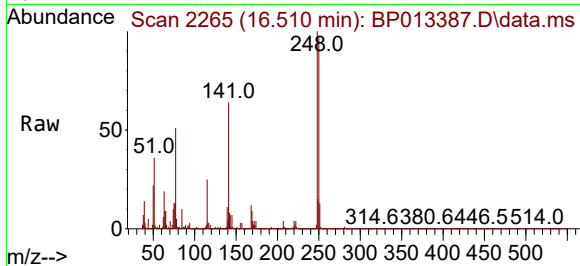




#68
4-Bromophenyl-phenylether
Concen: 4.556 ng/ul
RT: 16.510 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

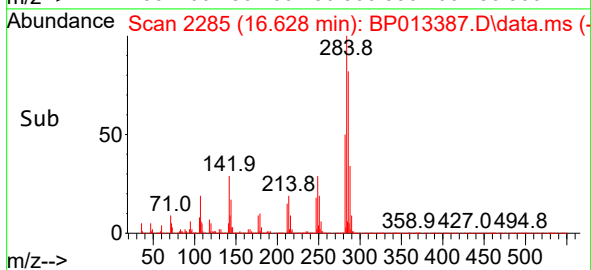
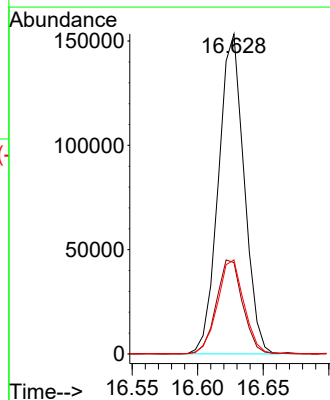
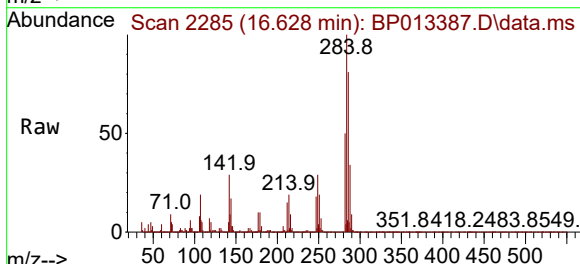
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

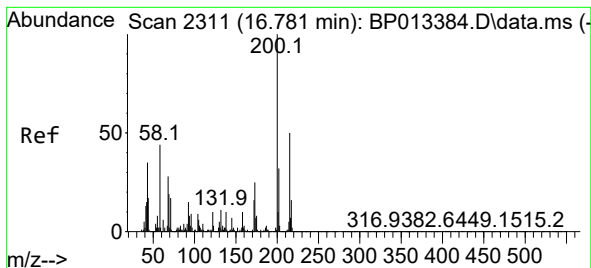
Tgt Ion:248 Resp: 172441
Ion Ratio Lower Upper
248 100
250 97.2 77.4 116.0
141 63.8 48.3 72.5



#69
Hexachlorobenzene
Concen: 4.643 ng/ul
RT: 16.628 min Scan# 2285
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:284 Resp: 208652
Ion Ratio Lower Upper
284 100
142 28.5 22.6 34.0
249 29.4 24.6 37.0





#70

Atrazine

Concen: 3.682 ng/ul

RT: 16.781 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

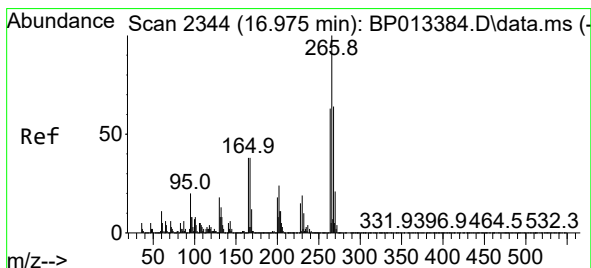
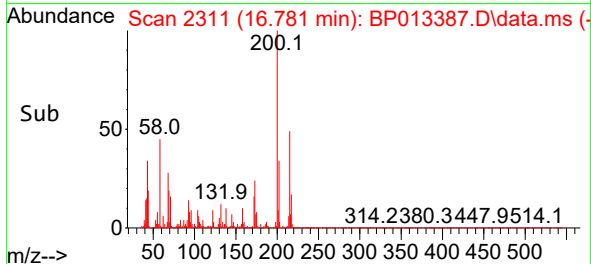
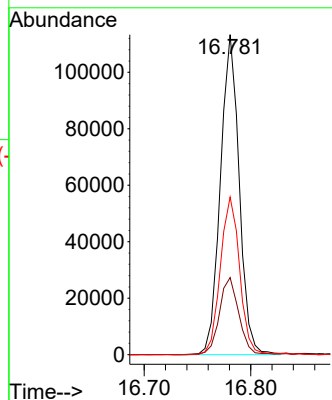
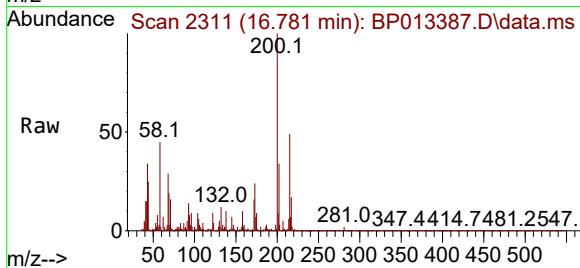
Tgt Ion:200 Resp: 138638

Ion Ratio Lower Upper

200 100

173 24.1 20.5 30.7

215 49.3 39.9 59.9



#71

Pentachlorophenol

Concen: 4.273 ng/ul

RT: 16.975 min Scan# 2344

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

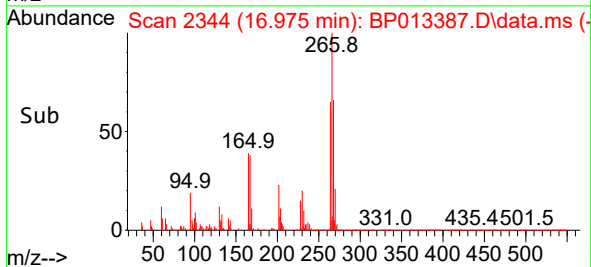
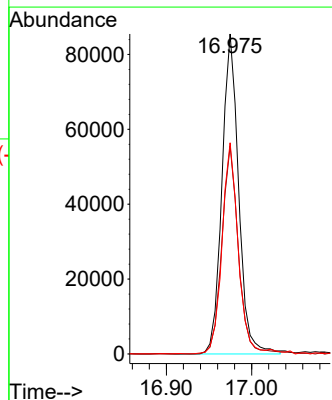
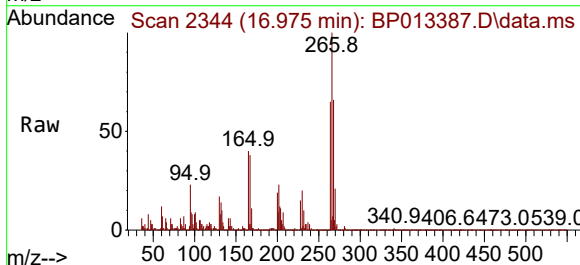
Tgt Ion:266 Resp: 116288

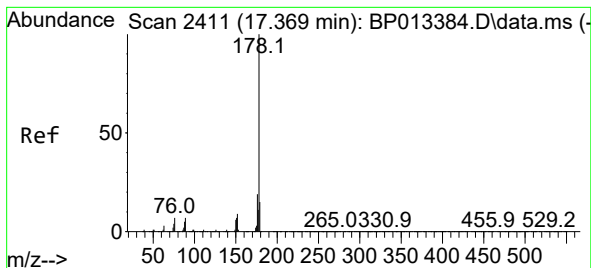
Ion Ratio Lower Upper

266 100

264 65.0 50.9 76.3

268 66.0 51.4 77.2





#72

Phenanthrene

Concen: 4.891 ng/ul

RT: 17.369 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

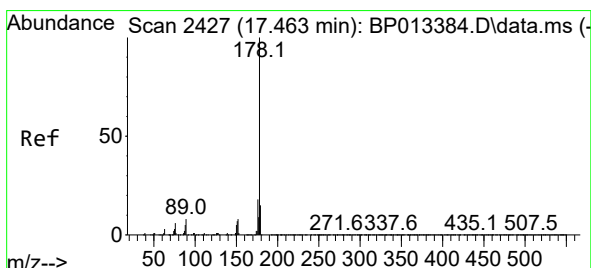
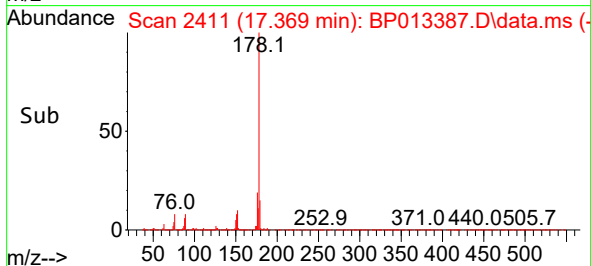
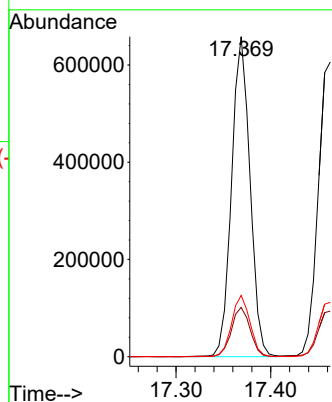
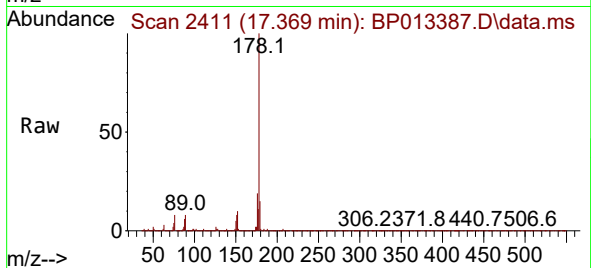
Tgt Ion:178 Resp: 887810

Ion Ratio Lower Upper

178 100

179 15.4 12.5 18.7

176 19.2 15.4 23.0



#74

Anthracene

Concen: 4.884 ng/ul

RT: 17.463 min Scan# 2427

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

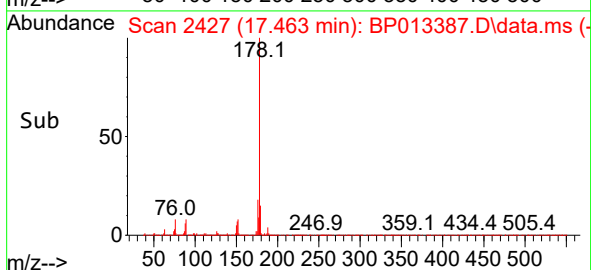
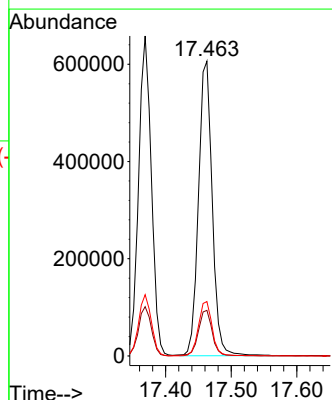
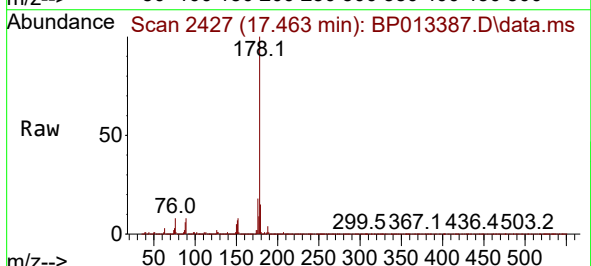
Tgt Ion:178 Resp: 885125

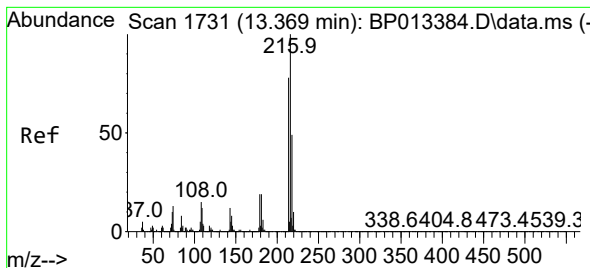
Ion Ratio Lower Upper

178 100

179 15.5 12.5 18.7

176 18.5 14.8 22.2





#75

1,2,3,4-Tetrachlorobenzene

Concen: 3.919 ng/uL

RT: 13.369 min Scan# 1731

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

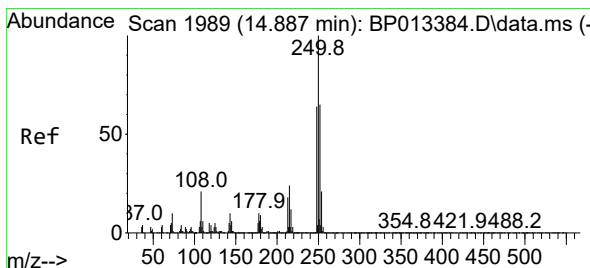
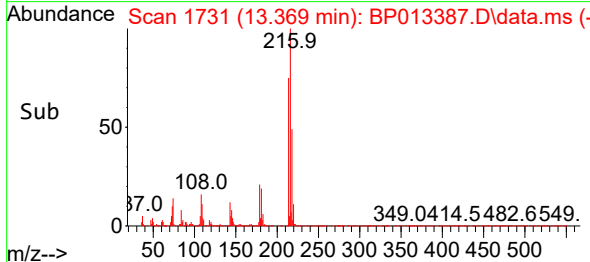
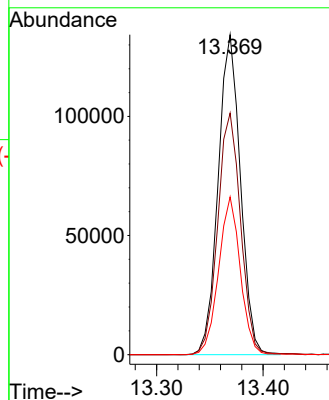
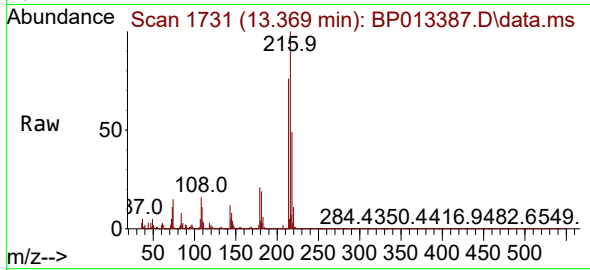
Tgt Ion:216 Resp: 194850

Ion Ratio Lower Upper

216 100

214 75.5 62.2 93.2

218 49.3 38.9 58.3



#76

Pentachlorobenzene

Concen: 3.708 ng/uL

RT: 14.887 min Scan# 1989

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

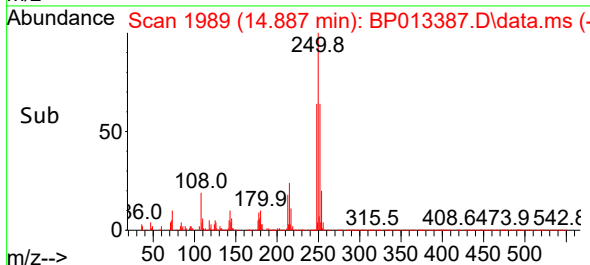
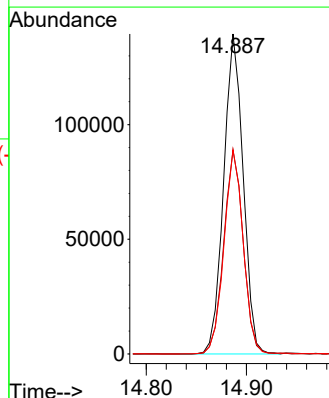
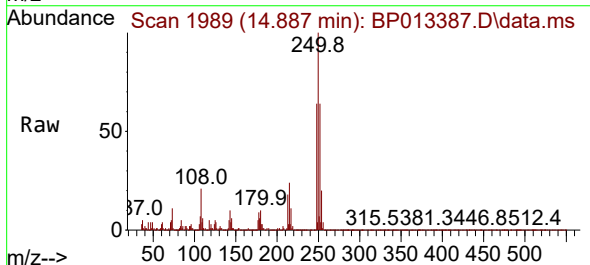
Tgt Ion:250 Resp: 187951

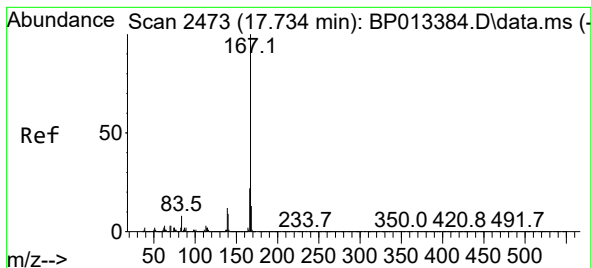
Ion Ratio Lower Upper

250 100

248 63.7 50.6 76.0

252 63.8 51.1 76.7





#77

Carbazole

Concen: 4.704 ng/ul

RT: 17.733 min Scan# 2473

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

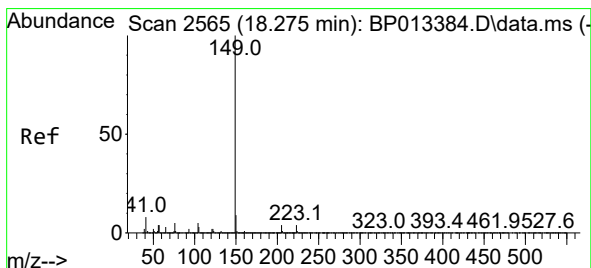
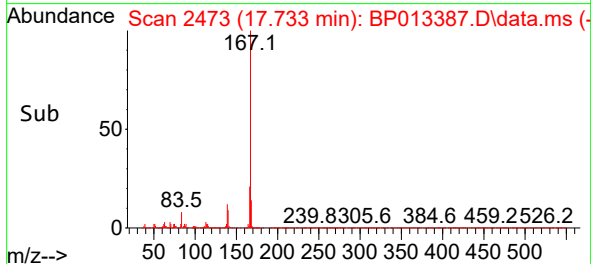
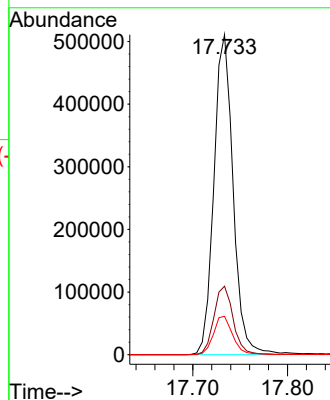
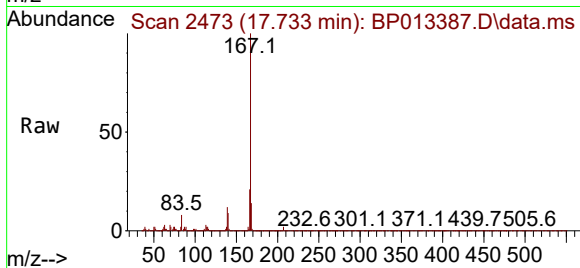
Tgt Ion:167 Resp: 717997

Ion Ratio Lower Upper

167 100

166 21.4 17.2 25.8

139 12.0 9.4 14.2



#78

Di-n-butylphthalate

Concen: 3.780 ng/ul

RT: 18.275 min Scan# 2565

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

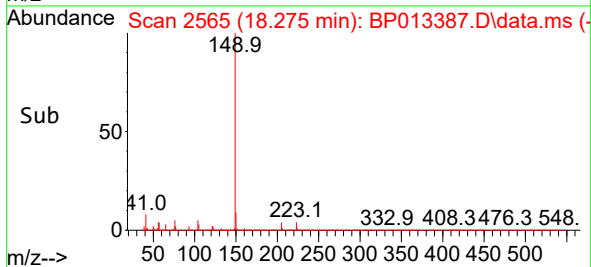
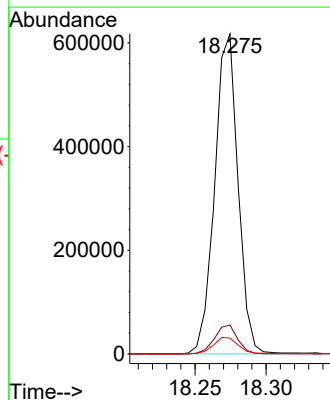
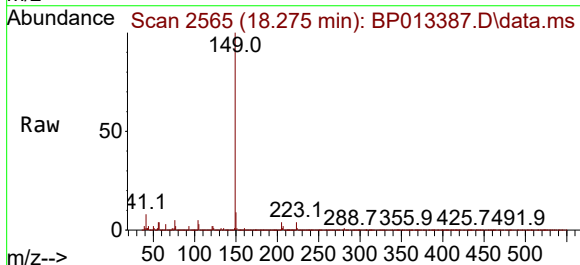
Tgt Ion:149 Resp: 702559

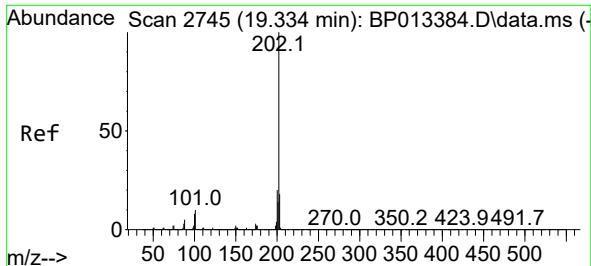
Ion Ratio Lower Upper

149 100

150 9.0 7.5 11.3

104 5.0 3.8 5.6

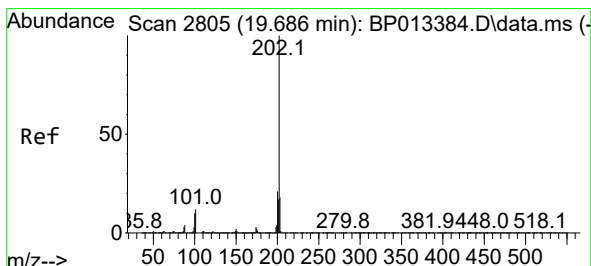
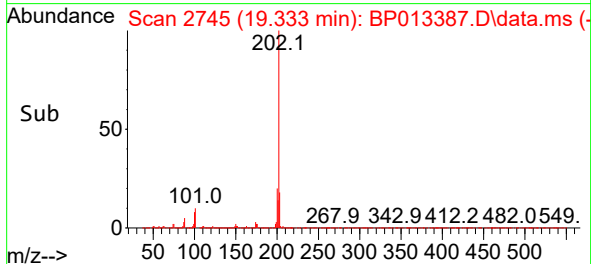
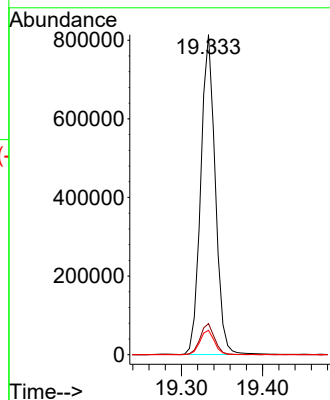
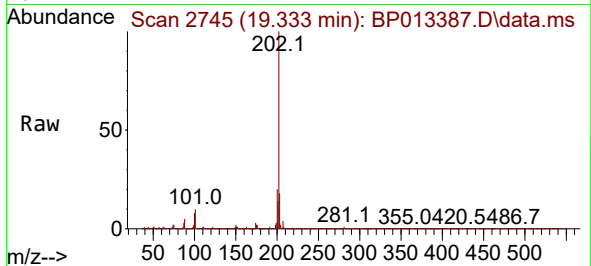




#80
Fluoranthene
Concen: 4.963 ng/ul
RT: 19.333 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

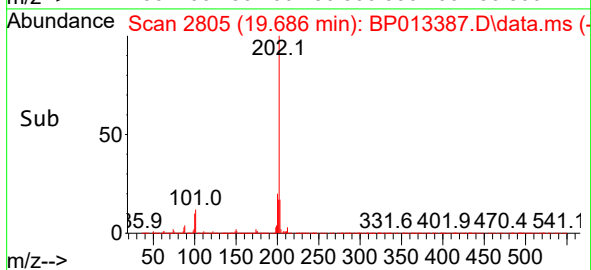
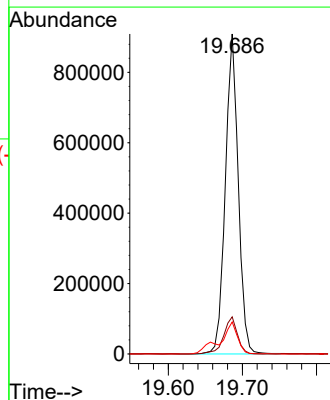
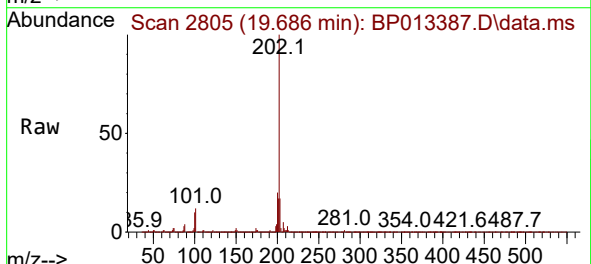
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

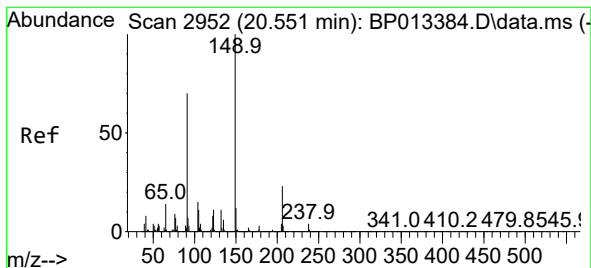
Tgt Ion:202 Resp: 1012538
Ion Ratio Lower Upper
202 100
101 9.7 8.2 12.2
100 7.6 6.1 9.1



#82
Pyrene
Concen: 5.227 ng/ul
RT: 19.686 min Scan# 2805
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:202 Resp: 1100125
Ion Ratio Lower Upper
202 100
101 11.6 9.4 14.2
100 10.0 7.8 11.8





#83

Butylbenzylphthalate

Concen: 3.402 ng/ul

RT: 20.551 min Scan# 2952

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

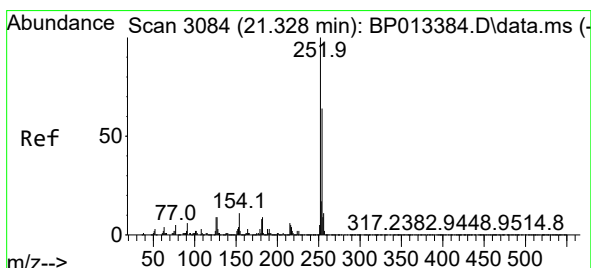
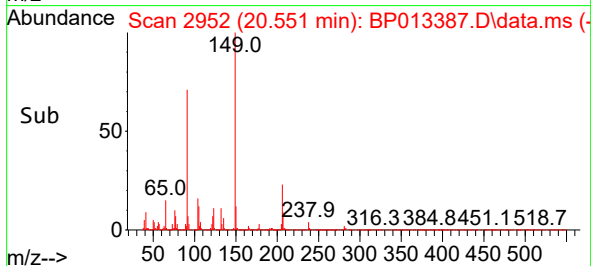
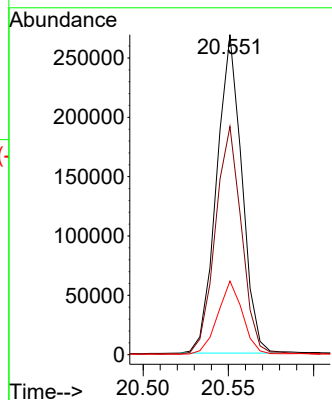
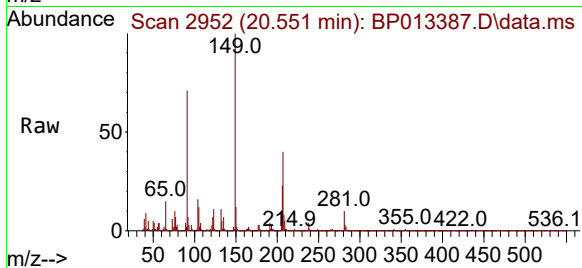
Tgt Ion:149 Resp: 276616

Ion Ratio Lower Upper

149 100

91 71.3 53.4 80.0

206 23.0 17.9 26.9



#84

3,3'-Dichlorobenzidine

Concen: 4.489 ng/ul

RT: 21.327 min Scan# 3084

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

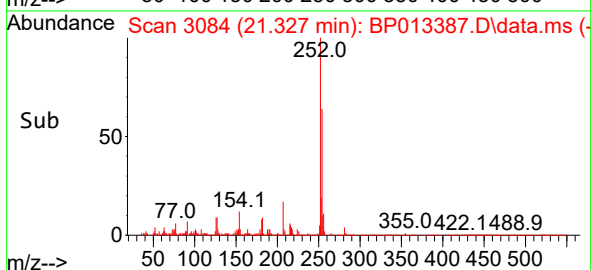
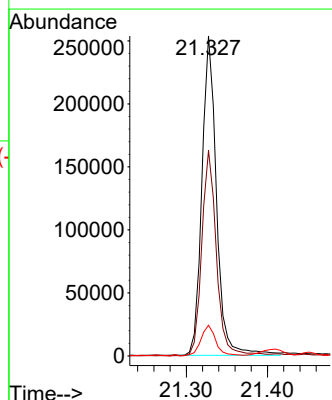
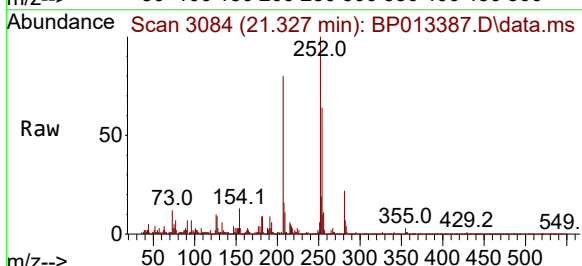
Tgt Ion:252 Resp: 317583

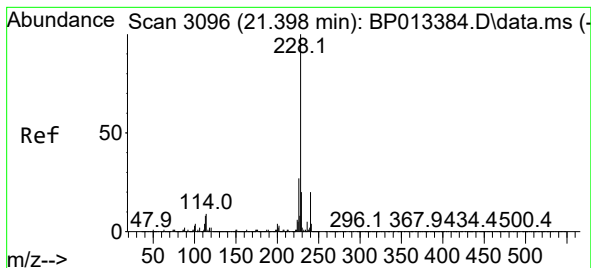
Ion Ratio Lower Upper

252 100

254 64.3 51.8 77.8

126 9.6 7.4 11.2





#85

Benzo(a)anthracene

Concen: 4.694 ng/ul

RT: 21.398 min Scan# 3096

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

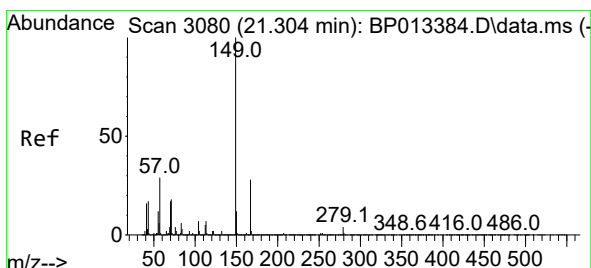
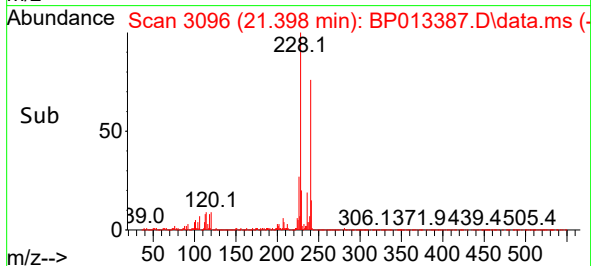
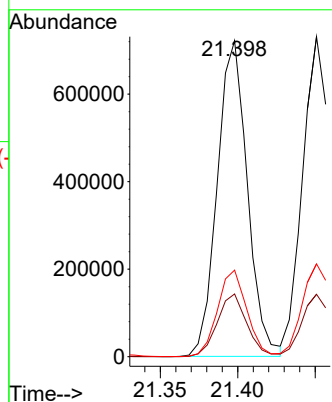
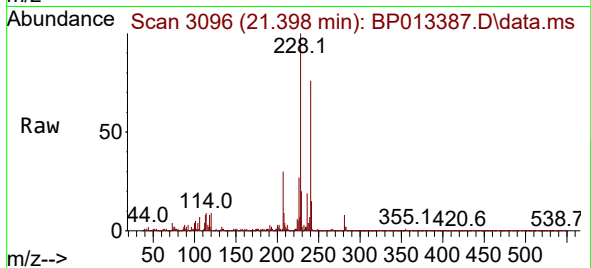
Tgt Ion:228 Resp: 975749

Ion Ratio Lower Upper

228 100

229 19.8 16.1 24.1

226 27.4 22.0 33.0



#86

Bis(2-ethylhexyl)phthalate

Concen: 3.169 ng/ul

RT: 21.310 min Scan# 3081

Delta R.T. 0.006 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

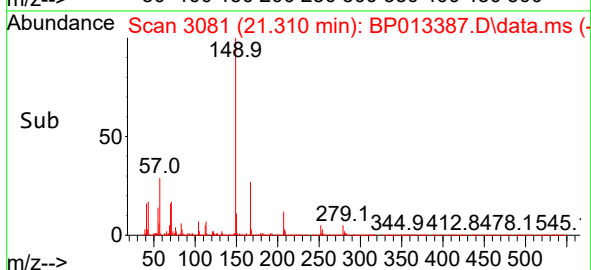
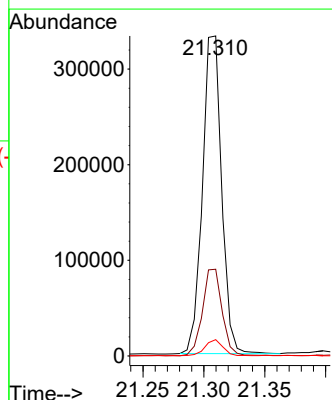
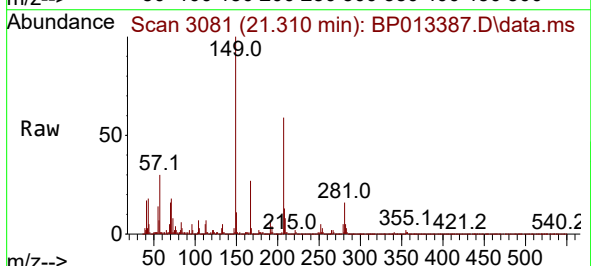
Tgt Ion:149 Resp: 363465

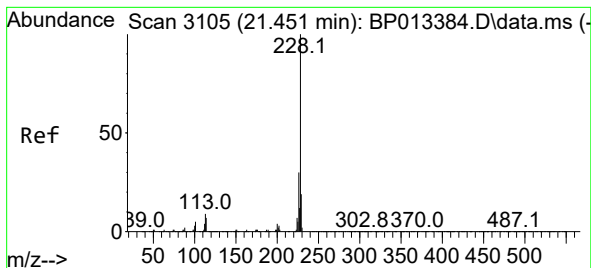
Ion Ratio Lower Upper

149 100

167 27.1 22.5 33.7

279 5.1 3.8 5.8





#87

Chrysene

Concen: 4.685 ng/ul

RT: 21.451 min Scan# 3105

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

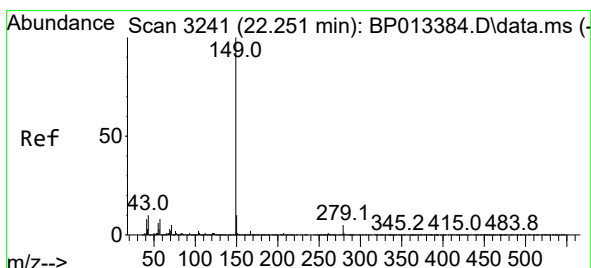
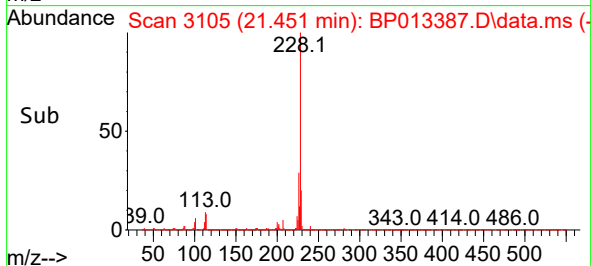
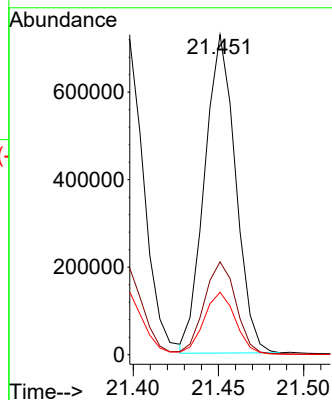
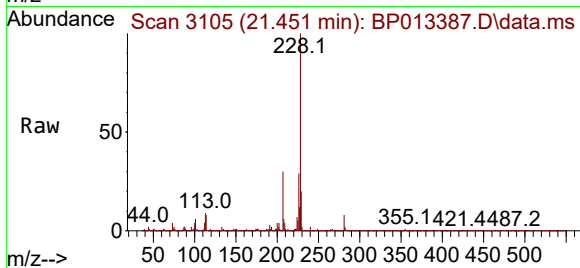
Tgt Ion:228 Resp: 921123

Ion Ratio Lower Upper

228 100

226 29.0 24.5 36.7

229 19.5 16.0 24.0



#89

Di-n-octyl phthalate

Concen: 3.538 ng/ul

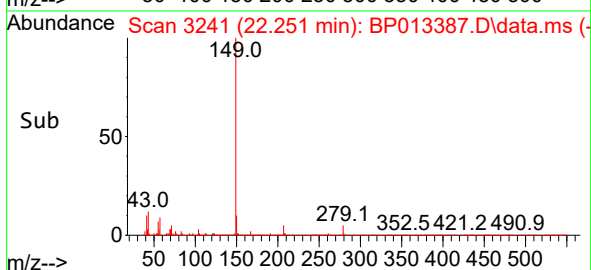
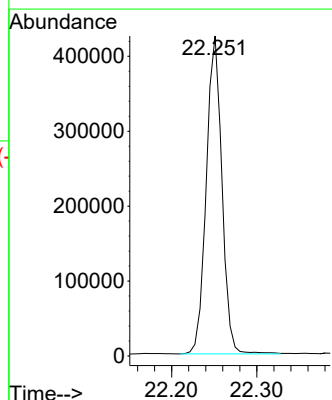
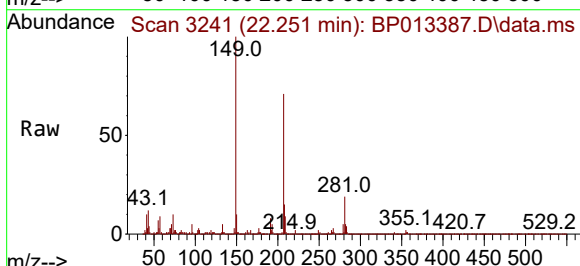
RT: 22.251 min Scan# 3241

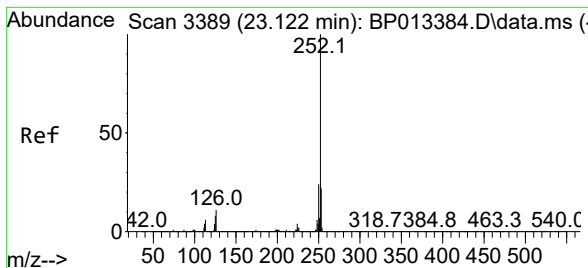
Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Tgt Ion:149 Resp: 541590





#90

Benzo(b)fluoranthene

Concen: 4.903 ng/ul

RT: 23.121 min Scan# 3389

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

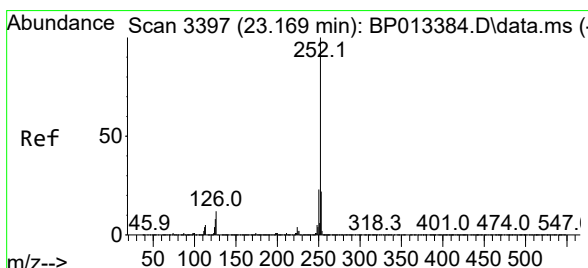
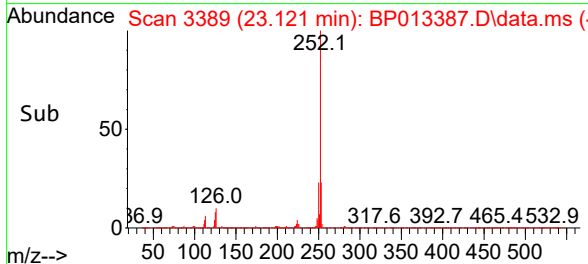
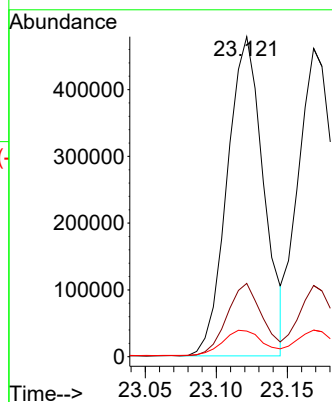
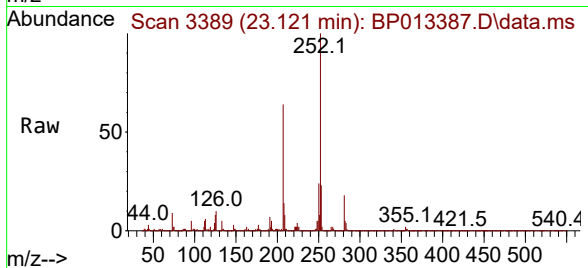
Tgt Ion:252 Resp: 854205

Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

125 8.0 6.8 10.2



#91

Benzo(k)fluoranthene

Concen: 4.708 ng/ul

RT: 23.168 min Scan# 3397

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

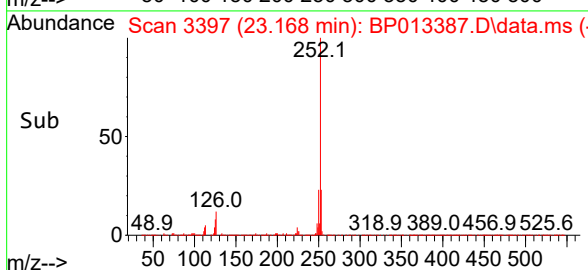
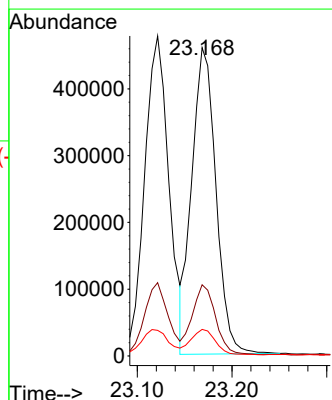
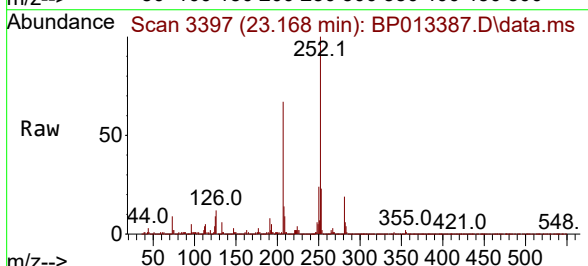
Tgt Ion:252 Resp: 813358

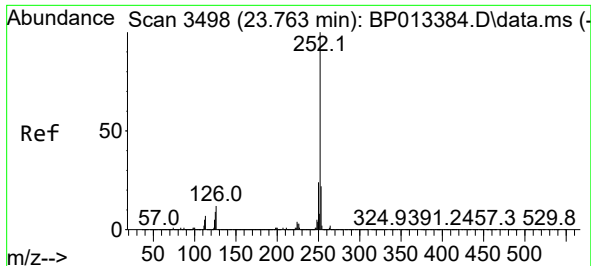
Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

125 8.6 6.8 10.2

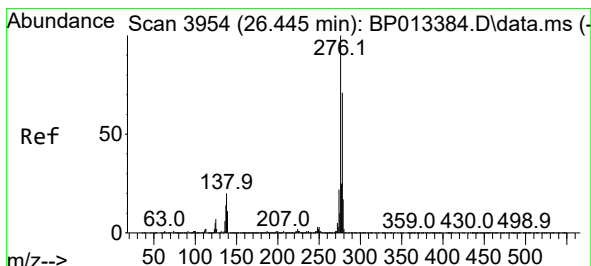
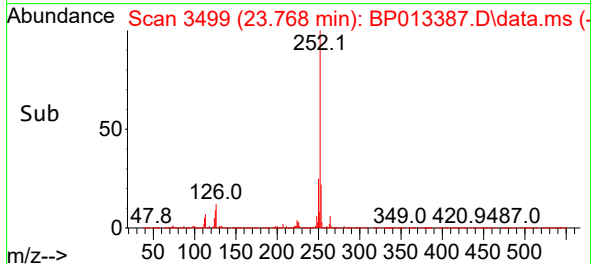
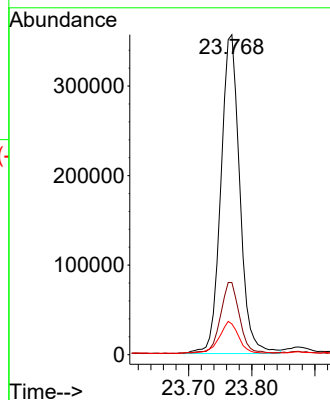
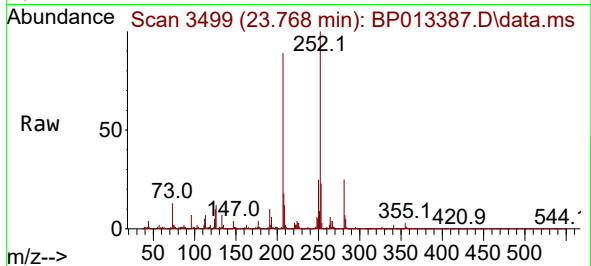




#93
Benzo(a)pyrene
Concen: 4.889 ng/ul
RT: 23.768 min Scan# 3498
Delta R.T. 0.006 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

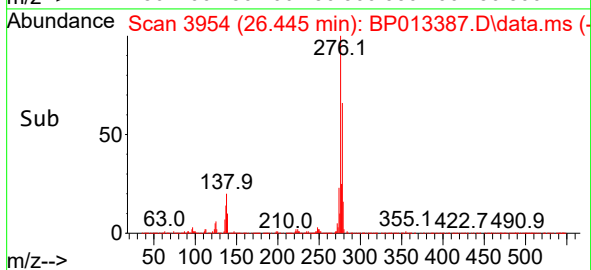
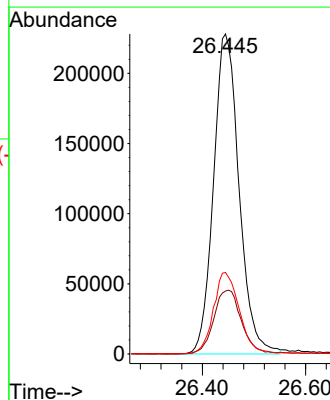
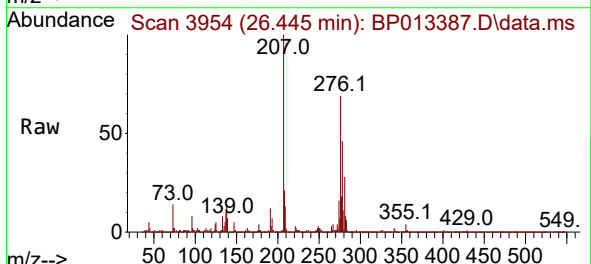
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-08

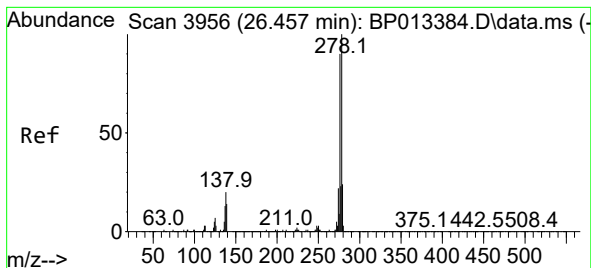
Tgt Ion:252 Resp: 741678
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 9.6 7.5 11.3



#94
Indeno(1,2,3-cd)pyrene
Concen: 4.133 ng/ul
RT: 26.445 min Scan# 3954
Delta R.T. -0.000 min
Lab File: BP013387.D
Acq: 04 Jan 2023 13:06

Tgt Ion:276 Resp: 781017
Ion Ratio Lower Upper
276 100
138 19.7 17.1 25.7
277 25.5 20.0 30.0





#95

Dibenzo(a,h)anthracene

Concen: 4.163 ng/ul

RT: 26.462 min Scan# 3956

Delta R.T. 0.006 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-08

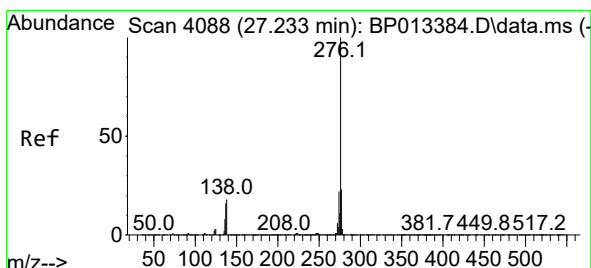
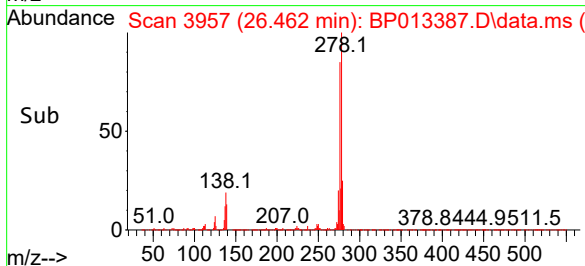
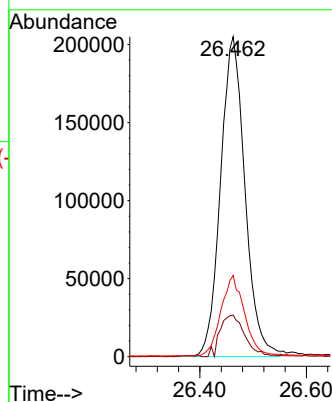
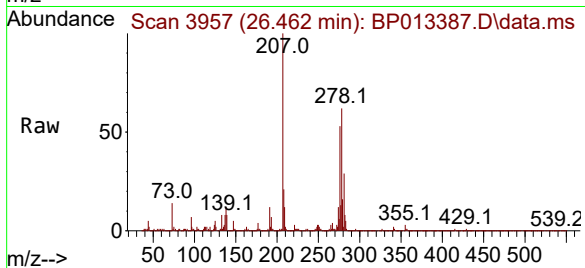
Tgt Ion:278 Resp: 651316

Ion Ratio Lower Upper

278 100

139 13.0 11.1 16.7

279 25.4 19.0 28.6



#96

Benzo(g,h,i)perylene

Concen: 4.231 ng/ul

RT: 27.233 min Scan# 4088

Delta R.T. -0.000 min

Lab File: BP013387.D

Acq: 04 Jan 2023 13:06

Tgt Ion:276 Resp: 641868

Ion Ratio Lower Upper

276 100

138 19.7 15.4 23.2

277 23.6 19.1 28.7

