

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP123022\
 Data File : BP013369.D
 Acq On : 30 Dec 2022 13:24
 Operator : CG/JU
 Sample : N5388-03
 Misc : SFAM-MDL-S-01-4NG
 ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Dec 30 23:36:38 2022
 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	7.928	152	394563	20.000	ng/ul	0.00
20) Naphthalene-d8	10.746	136	1725512	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.575	164	1247961	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.333	188	2917744	20.000	ng/ul	0.00
79) Chrysene-d12	21.421	240	2630955	20.000	ng/ul	0.00
88) Perylene-d12	23.886	264	2208095	20.000	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.322	96	48243	5.228	ng/uL	0.00
4) Pyridine-d5	3.746	84	505138	19.270	ng/ul	0.00
7) Phenol-d5	7.093	99	590972	18.389	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.257	67	408621	21.077	ng/ul	0.00
11) 2-Chlorophenol-d4	7.457	132	473755	18.726	ng/ul	0.00
15) 4-Methylphenol-d8	8.640	113	491361	18.659	ng/ul	0.00
21) Nitrobenzene-d5	9.099	128	238519	18.814	ng/ul	0.00
24) 2-Nitrophenol-d4	9.822	143	264290	18.517	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.363	165	508049	18.326	ng/ul	0.00
31) 4-Chloroaniline-d4	10.881	131	730622	18.668	ng/ul	0.00
46) Dimethylphthalate-d6	13.981	166	1856637	19.358	ng/ul	0.00
49) Acenaphthylene-d8	14.269	160	1975731	18.747	ng/ul	0.00
54) 4-Nitrophenol-d4	14.775	143	264614	15.338	ng/ul	0.00
60) Fluorene-d10	15.569	176	1612827	19.877	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.692	200	272135	14.494	ng/ul	0.00
73) Anthracene-d10	17.433	188	2580178	19.601	ng/ul	0.00
81) Pyrene-d10	19.663	212	3061883	20.275	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.727	264	2144648	19.486	ng/ul	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.358	88	12651	1.313	ng/uL#	84
5) Pyridine	3.775	79	103364	3.967	ng/ul#	71
6) Benzaldehyde	7.069	77	83180	6.610	ng/ul	97
8) Phenol	7.116	94	120019	3.694	ng/ul	93
10) Bis(2-Chloroethyl)ether	7.352	93	105331	3.949	ng/ul	92
12) 2-Chlorophenol	7.493	128	97061	3.741	ng/ul	95
13) 2-Methylphenol	8.375	108	84431	3.333	ng/ul	96
14) 2,2'-oxybis(1-Chloropr...	8.463	45	165398	4.519	ng/ul	100
16) Acetophenone	8.763	105	158984	3.938	ng/ul#	91
17) N-Nitroso-di-n-propyla...	8.740	70	82603	4.068	ng/ul#	93
18) 4-Methylphenol	8.704	108	102091	3.638	ng/ul	92
19) Hexachloroethane	9.010	117	39286	3.789	ng/ul	95
22) Nitrobenzene	9.140	77	124147	4.173	ng/ul	93
23) Isophorone	9.669	82	216711	3.603	ng/ul	98
25) 2-Nitrophenol	9.857	139	56591	3.659	ng/ul	91
26) 2,4-Dimethylphenol	9.916	107	111369	3.691	ng/ul	92
27) Bis(2-Chloroethoxy)met...	10.151	93	149443	3.885	ng/ul	98
29) 2,4-Dichlorophenol	10.393	162	102423	3.772	ng/ul	98
30) Naphthalene	10.793	128	351854	3.899	ng/ul	98
32) 4-Chloroaniline	10.910	127	145319	3.752	ng/ul	98
33) Hexachlorobutadiene	11.075	225	75794	4.065	ng/ul	96
34) Caprolactam	11.710	113	25870	2.794	ng/ul	94
35) 4-Chloro-3-methylphenol	12.028	107	96722	3.490	ng/ul	97
36) 2-Methylnaphthalene	12.398	142	235660	3.807	ng/ul	100

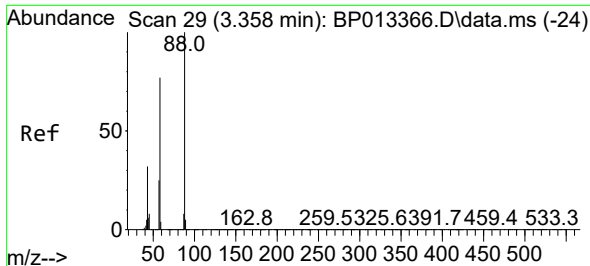
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.622	142	247124	3.881	ng/ul	99
39) 1,2,4,5-Tetrachloroben...	12.769	216	154562	3.846	ng/ul	98
40) Hexachlorocyclopentadiene	12.745	237	63263	2.419	ng/ul	98
41) 2,4,6-Trichlorophenol	13.010	196	80358	3.112	ng/ul	97
42) 2,4,5-Trichlorophenol	13.081	196	91169	3.287	ng/ul	98
43) 1,1'-Biphenyl	13.410	154	345389	3.685	ng/ul	99
44) 2-Chloronaphthalene	13.451	162	272874	3.699	ng/ul	99
45) 2-Nitroaniline	13.663	65	56759	3.174	ng/ul	87
47) Dimethylphthalate	14.028	163	360530	3.793	ng/ul	99
48) 2,6-Dinitrotoluene	14.151	165	52345	2.963	ng/ul	92
50) Acenaphthylene	14.298	152	422810	3.732	ng/ul	99
51) 3-Nitroaniline	14.487	138	49215	2.950	ng/ul	95
52) Acenaphthene	14.639	153	296243	3.773	ng/ul	100
53) 2,4-Dinitrophenol	14.698	184	20155	1.669	ng/ul	87
55) 4-Nitrophenol	14.792	109	42071	3.574	ng/ul	88
56) Dibenzofuran	14.975	168	440182	3.943	ng/ul	98
57) 2,4-Dinitrotoluene	14.945	165	79786	3.109	ng/ul	94
58) 2,3,4,6-Tetrachlorophenol	15.204	232	83394	3.294	ng/ul	95
59) Diethylphthalate	15.392	149	328836	3.558	ng/ul	100
61) Fluorene	15.628	166	351370	3.925	ng/ul	97
62) 4-Chlorophenyl-phenyle...	15.616	204	196011	4.140	ng/ul	99
63) 4-Nitroaniline	15.651	138	47634	3.245	ng/ul	90
66) 4,6-Dinitro-2-methylph...	15.704	198	55963	3.050	ng/ul#	72
67) N-Nitrosodiphenylamine	15.834	169	284275	3.514	ng/ul	98
68) 4-Bromophenyl-phenylether	16.516	248	113853	3.593	ng/ul	97
69) Hexachlorobenzene	16.633	284	139863	3.717	ng/ul	97
70) Atrazine	16.786	200	97405	3.090	ng/ul	99
71) Pentachlorophenol	16.980	266	54832	2.407	ng/ul	97
72) Phenanthrene	17.375	178	583556	3.840	ng/ul	100
74) Anthracene	17.469	178	579523	3.819	ng/ul	98
75) 1,2,3,4-Tetrachloroben...	13.375	216	161943	3.890	ng/uL	99
76) Pentachlorobenzene	14.892	250	157998	3.723	ng/uL	99
77) Carbazole	17.739	167	451039	3.529	ng/ul	99
78) Di-n-butylphthalate	18.280	149	468844	3.013	ng/ul	99
80) Fluoranthene	19.339	202	662897	3.868	ng/ul	99
82) Pyrene	19.692	202	731098	4.135	ng/ul	99
83) Butylbenzylphthalate	20.557	149	186869	2.736	ng/ul	94
84) 3,3'-Dichlorobenzidine	21.333	252	166607	2.803	ng/ul	97
85) Benzo(a)anthracene	21.404	228	648746	3.714	ng/ul	100
86) Bis(2-ethylhexyl)phtha...	21.310	149	262147	2.721	ng/ul	99
87) Chrysene	21.457	228	628987	3.808	ng/ul	99
89) Di-n-octyl phthalate	22.257	149	379810	3.070	ng/ul	100
90) Benzo(b)fluoranthene	23.127	252	543076	3.857	ng/ul	99
91) Benzo(k)fluoranthene	23.180	252	539595	3.865	ng/ul	99
93) Benzo(a)pyrene	23.774	252	456757	3.726	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	26.462	276	499521	3.271	ng/ul	97
95) Dibenzo(a,h)anthracene	26.474	278	413803	3.273	ng/ul	98
96) Benzo(g,h,i)perylene	27.251	276	411930	3.360	ng/ul	97

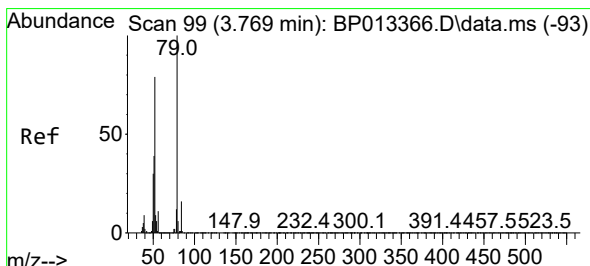
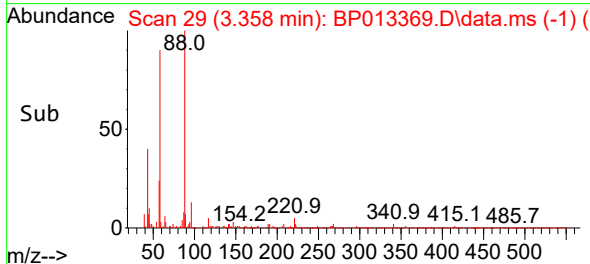
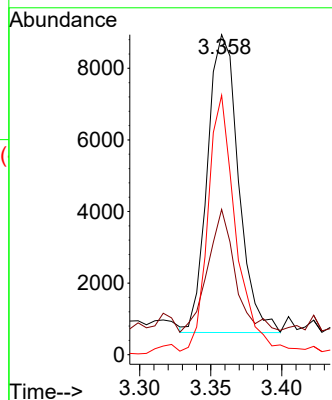
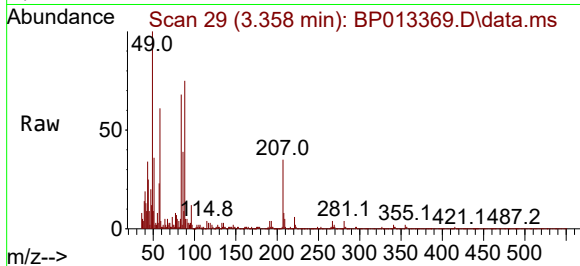
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#2
1,4-Dioxane
Concen: 1.313 ng/uL
RT: 3.358 min Scan# 24
Delta R.T. -0.000 min
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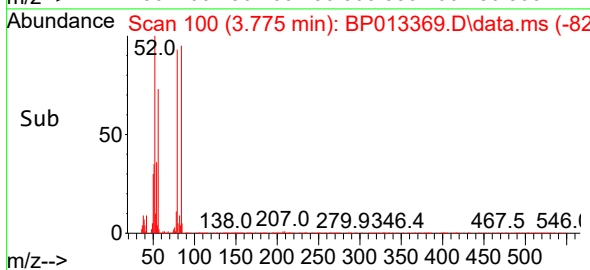
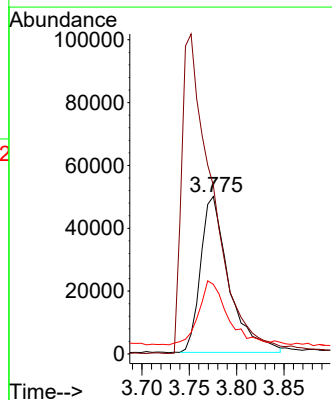
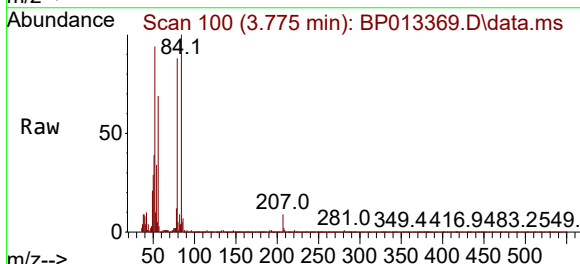
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ClientSampleId :
MDL-SOIL-QT4-2022-07

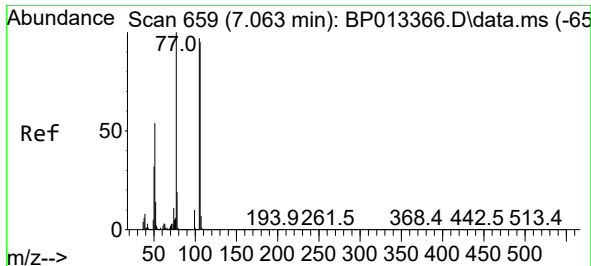
Tgt Ion: 88 Resp: 12651
Ion Ratio Lower Upper
88 100
43 45.4 22.4 33.6#
58 81.1 58.2 87.4



#5
Pyridine
Concen: 3.967 ng/uL
RT: 3.775 min Scan# 100
Delta R.T. 0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion: 79 Resp: 103364
Ion Ratio Lower Upper
79 100
52 107.1 60.7 91.1#
51 44.2 28.9 43.3#

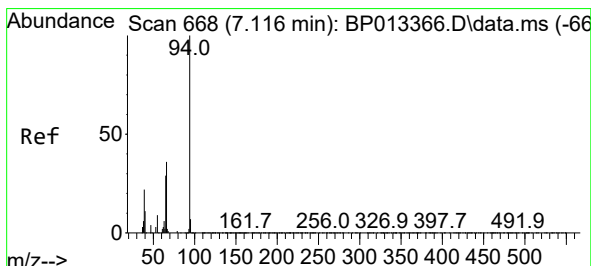
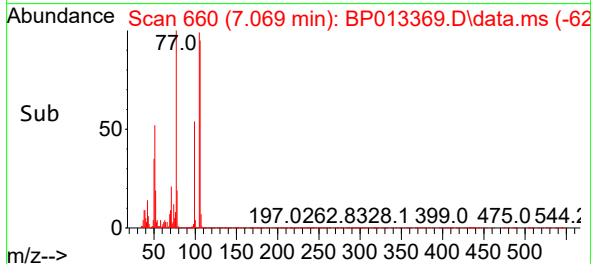
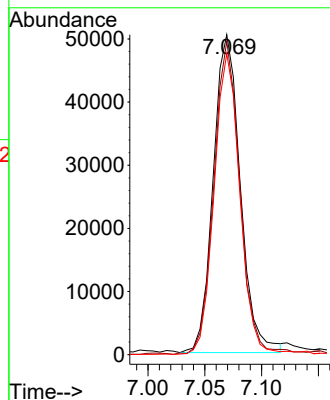
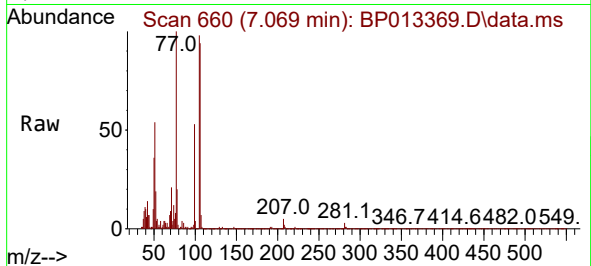




#6
Benzaldehyde
Concen: 6.610 ng/ul
RT: 7.069 min Scan# 659
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

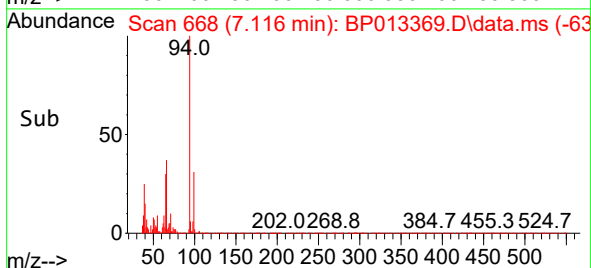
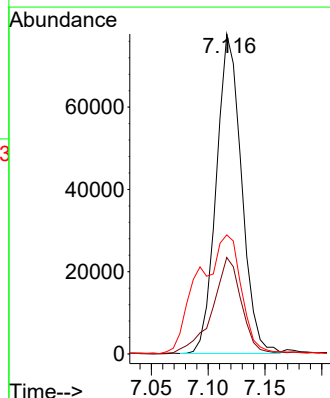
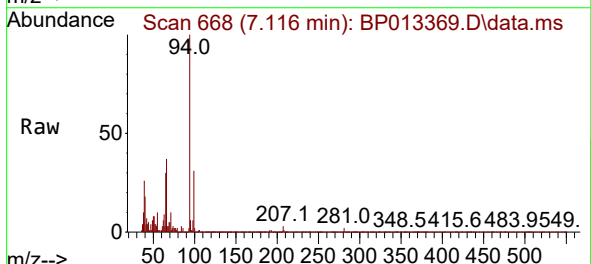
Instrument :
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MDL-SOIL-QT4-2022-07

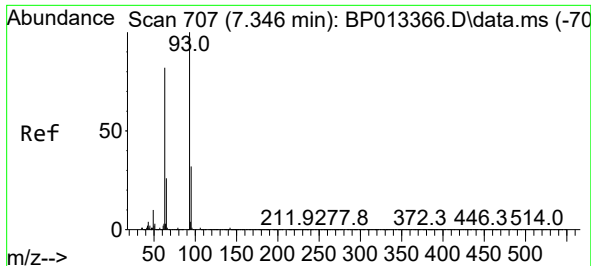
Tgt Ion: 77 Resp: 83180
Ion Ratio Lower Upper
77 100
105 97.9 81.5 122.3
106 94.1 76.9 115.3



#8
Phenol
Concen: 3.694 ng/ul
RT: 7.116 min Scan# 668
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion: 94 Resp: 120019
Ion Ratio Lower Upper
94 100
65 30.1 21.1 31.7
66 37.2 27.0 40.6

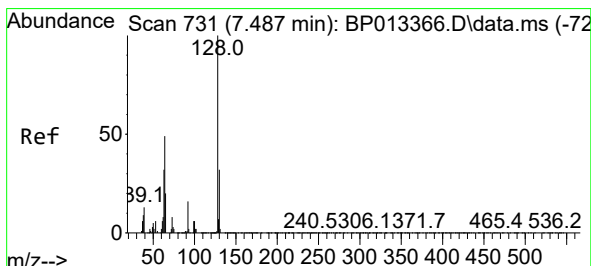
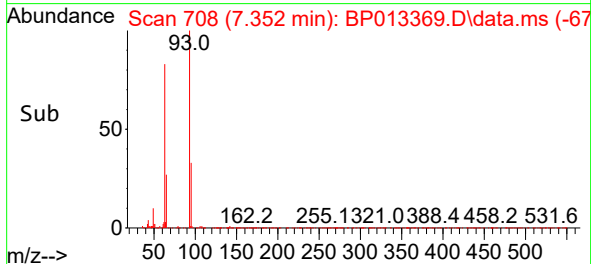
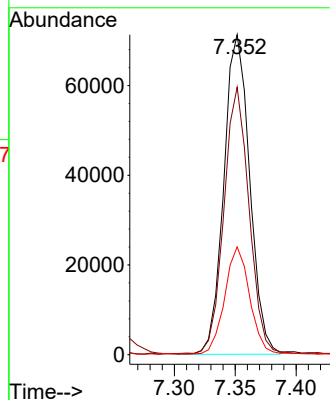
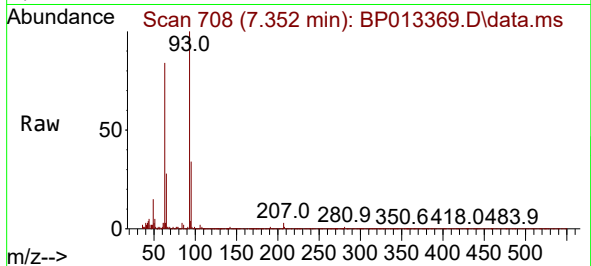




#10
Bis(2-Chloroethyl)ether
Concen: 3.949 ng/ul
RT: 7.352 min Scan# 708
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

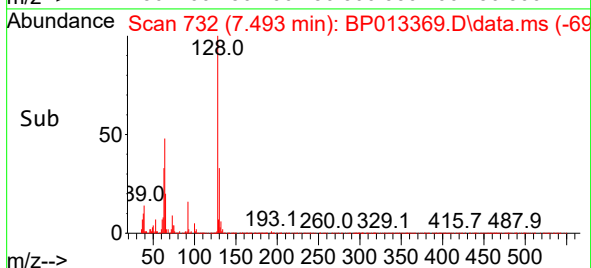
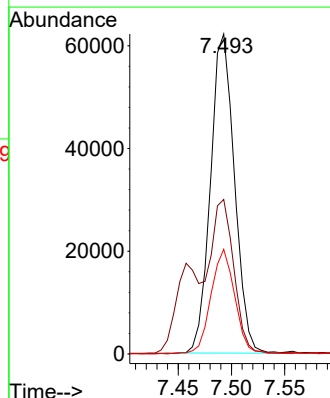
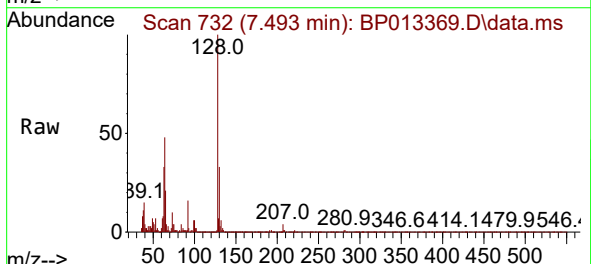
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ClientSampleId :
MDL-SOIL-QT4-2022-07

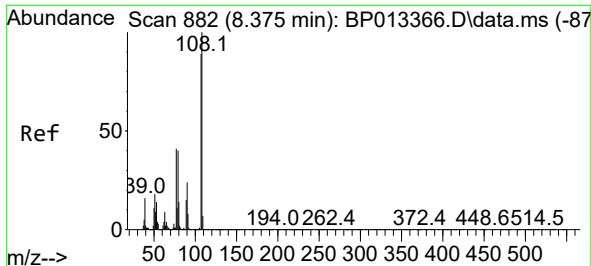
Tgt Ion: 93 Resp: 105331
Ion Ratio Lower Upper
93 100
63 83.6 59.8 89.8
95 33.7 26.4 39.6



#12
2-Chlorophenol
Concen: 3.741 ng/ul
RT: 7.493 min Scan# 732
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion: 128 Resp: 97061
Ion Ratio Lower Upper
128 100
64 48.3 34.9 52.3
130 32.7 25.8 38.6





#13

2-Methylphenol

Concen: 3.333 ng/ul

RT: 8.375 min Scan# 882

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

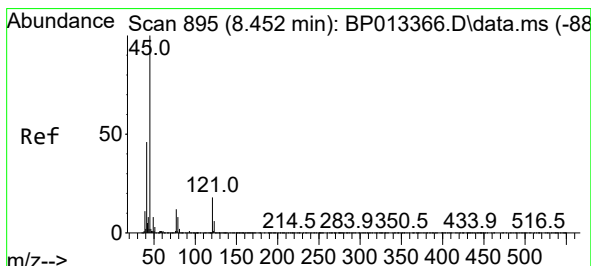
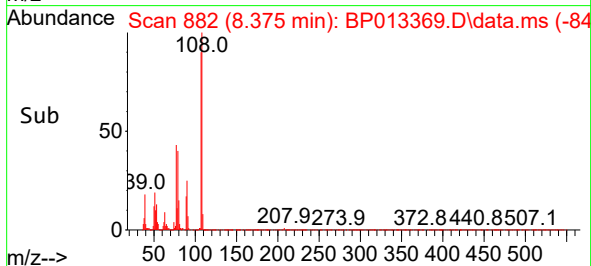
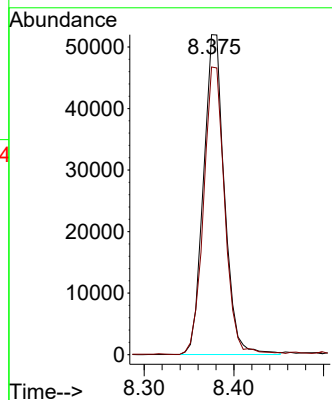
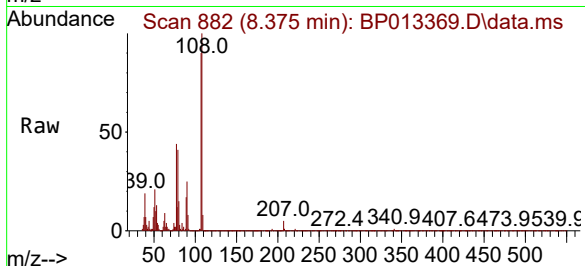
MDL-SOIL-QT4-2022-07

Tgt Ion:108 Resp: 84431

Ion Ratio Lower Upper

108 100

107 89.9 69.1 103.7



#14

2,2'-oxybis(1-Chloropropane)

Concen: 4.519 ng/ul

RT: 8.463 min Scan# 897

Delta R.T. 0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

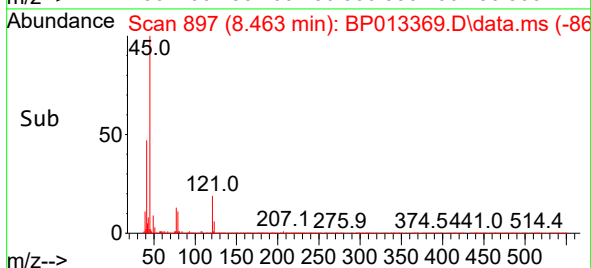
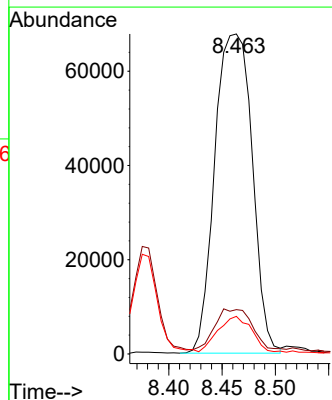
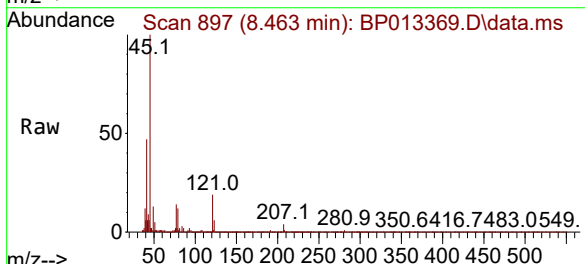
Tgt Ion: 45 Resp: 165398

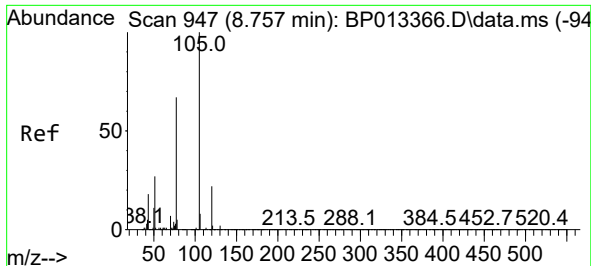
Ion Ratio Lower Upper

45 100

77 13.9 11.0 16.6

79 11.7 9.3 13.9

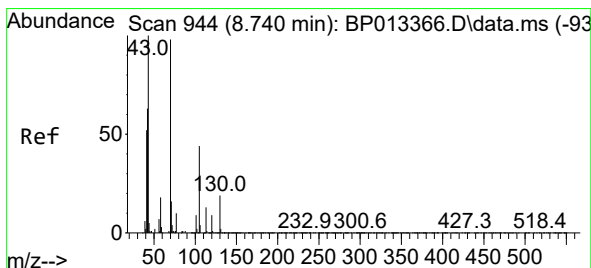
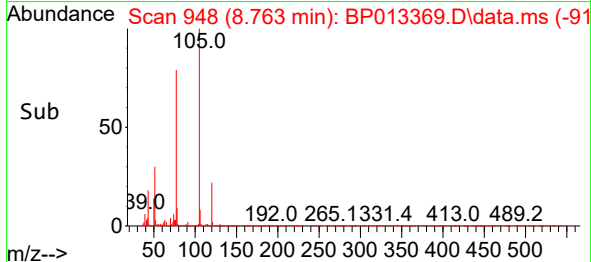
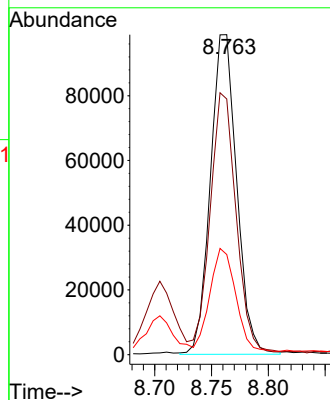
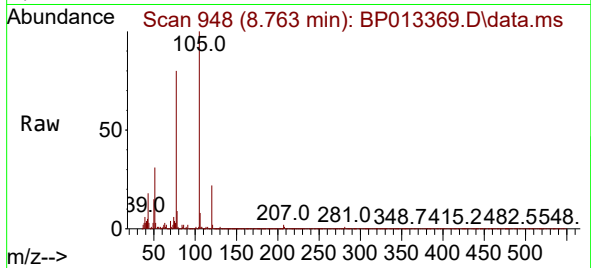




#16
Acetophenone
Concen: 3.938 ng/ul
RT: 8.763 min Scan# 947
Delta R.T. -0.000 min
Lab File: BP013369.D
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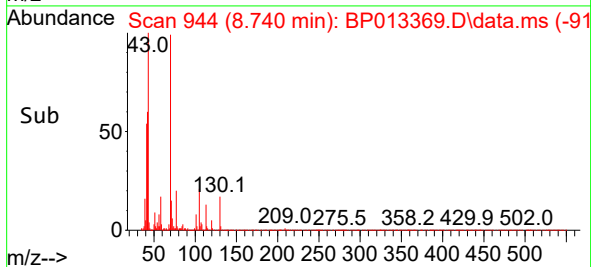
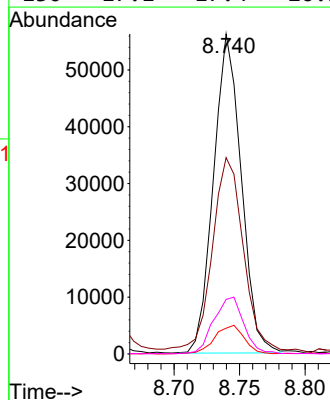
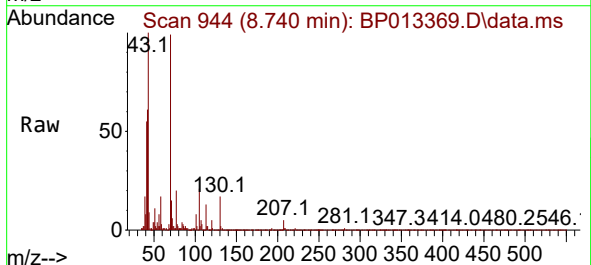
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ClientSampleId :
MDL-SOIL-QT4-2022-07

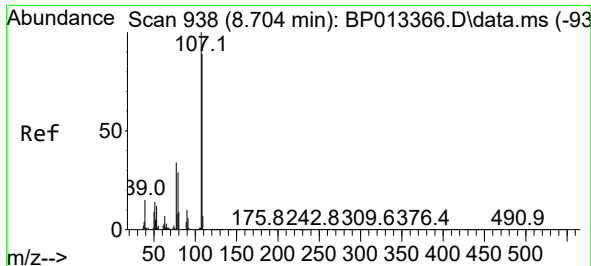
Tgt Ion:105 Resp: 158984
Ion Ratio Lower Upper
105 100
77 79.9 59.3 88.9
51 31.3 19.6 29.4#



#17
N-Nitroso-di-n-propylamine
Concen: 4.068 ng/ul
RT: 8.740 min Scan# 944
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion: 70 Resp: 82603
Ion Ratio Lower Upper
70 100
42 61.4 45.5 68.3
101 8.1 7.9 11.9
130 17.1 17.4 26.2#

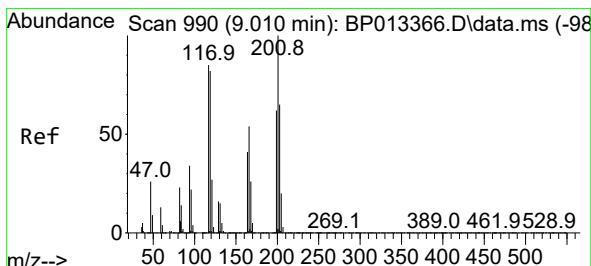
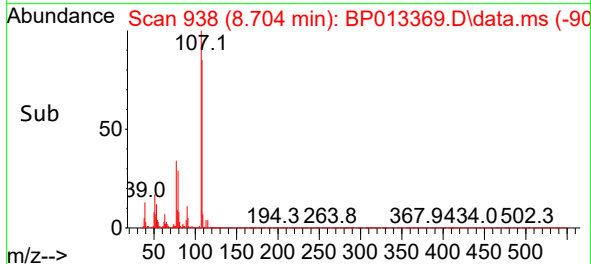
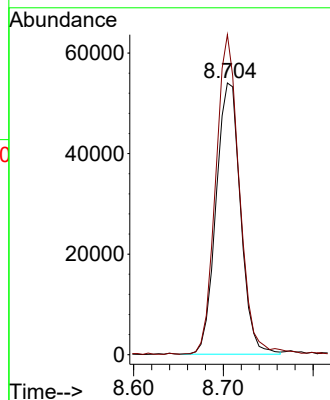
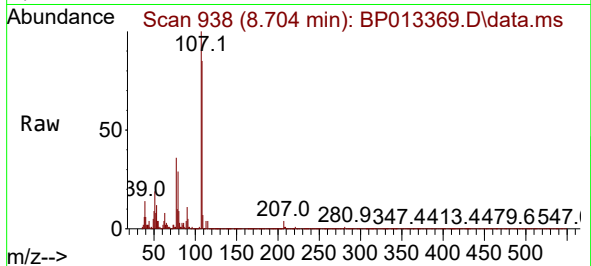




#18
4-Methylphenol
Concen: 3.638 ng/ul
RT: 8.704 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

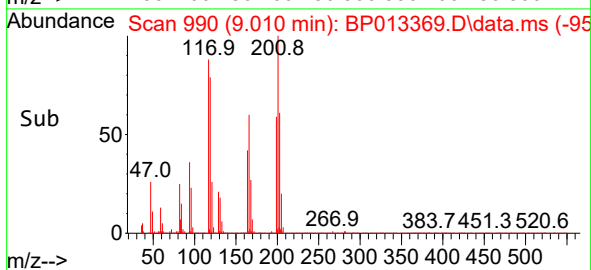
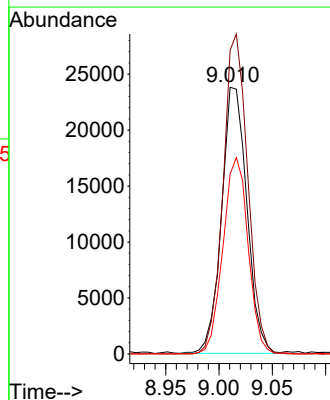
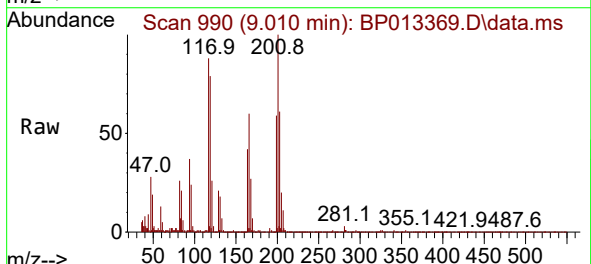
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

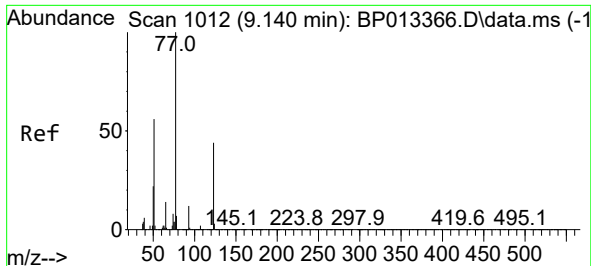
Tgt Ion:108 Resp: 102091
Ion Ratio Lower Upper
108 100
107 117.8 87.4 131.2



#19
Hexachloroethane
Concen: 3.789 ng/ul
RT: 9.010 min Scan# 990
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:117 Resp: 39286
Ion Ratio Lower Upper
117 100
201 113.9 93.7 140.5
199 67.4 58.6 88.0

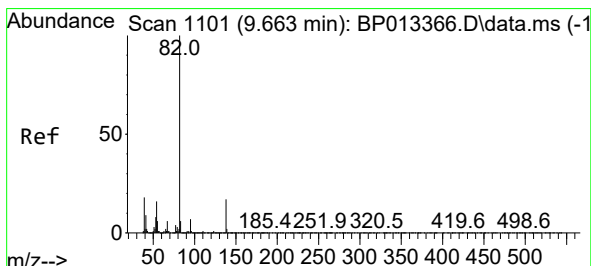
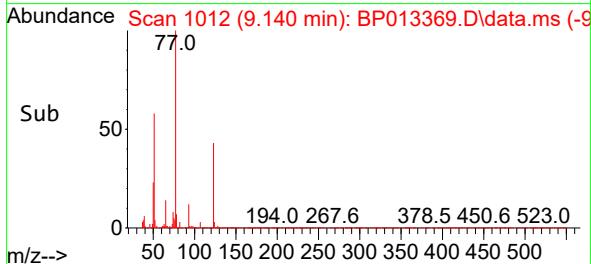
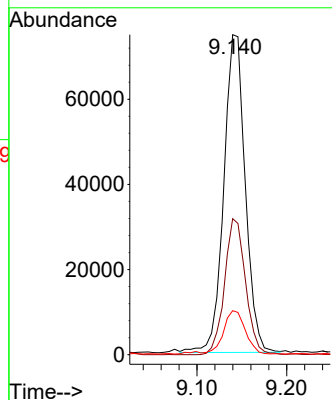
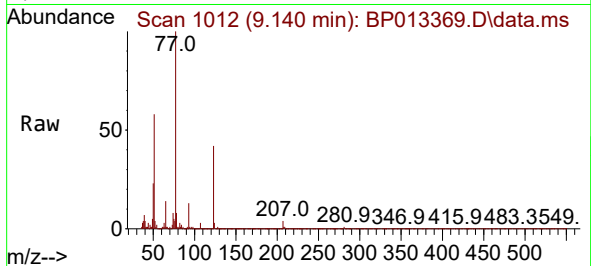




#22
Nitrobenzene
Concen: 4.173 ng/ul
RT: 9.140 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

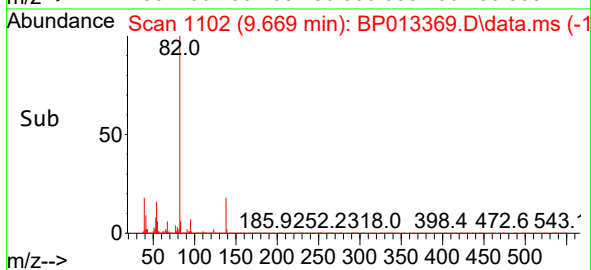
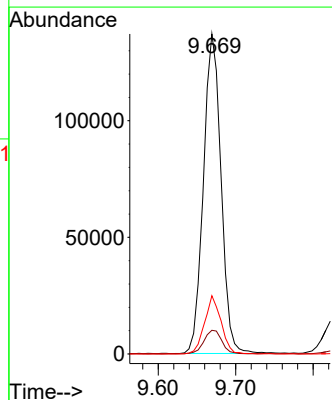
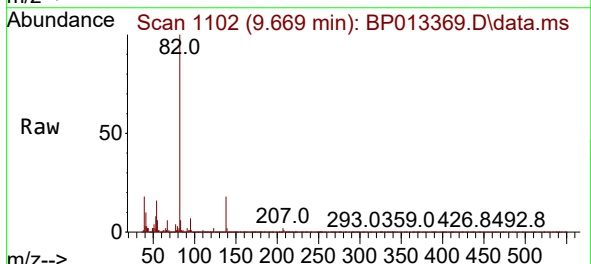
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

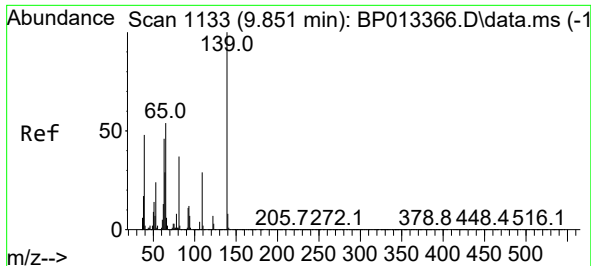
Tgt Ion:	77	Resp:	124147
Ion	Ratio	Lower	Upper
77	100		
123	42.5	38.3	57.5
65	13.8	10.3	15.5



#23
Isophorone
Concen: 3.603 ng/ul
RT: 9.669 min Scan# 1102
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:	82	Resp:	216711
Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.4	8.2
138	18.2	15.3	22.9

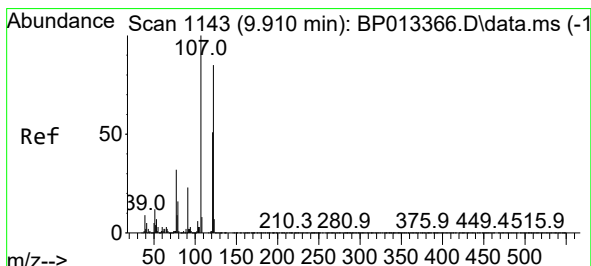
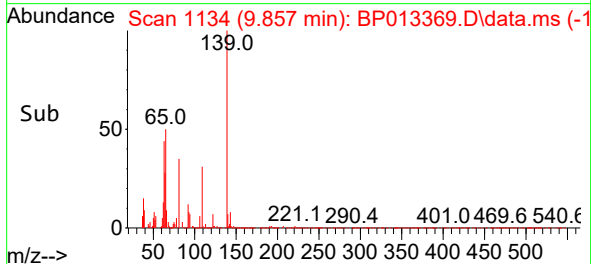
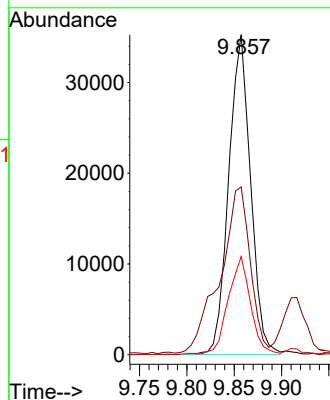
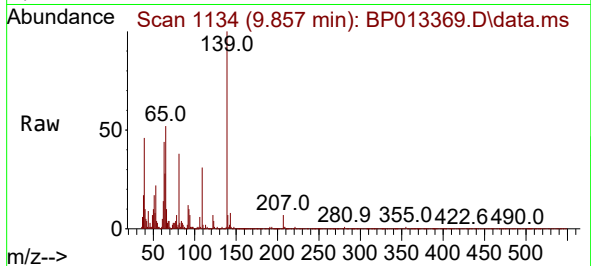




#25
2-Nitrophenol
Concen: 3.659 ng/ul
RT: 9.857 min Scan# 1133
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

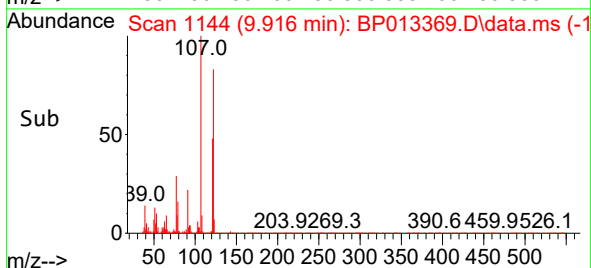
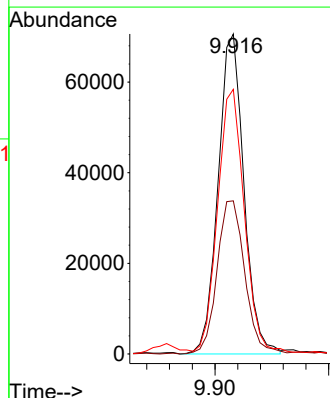
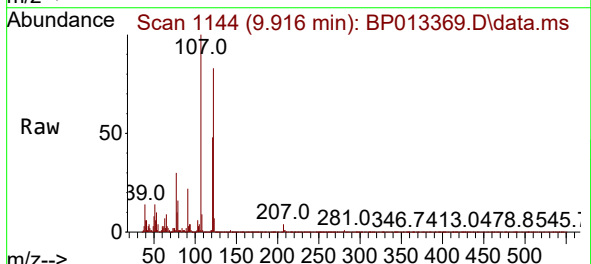
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

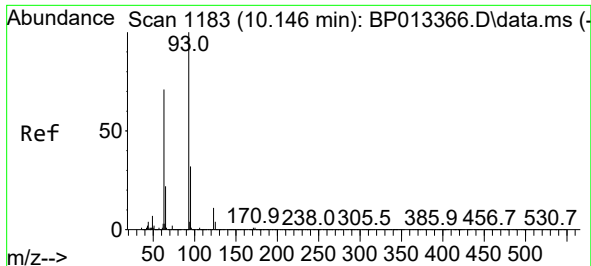
Tgt Ion:139 Resp: 56591
Ion Ratio Lower Upper
139 100
65 52.4 36.6 54.8
109 30.6 21.6 32.4



#26
2,4-Dimethylphenol
Concen: 3.691 ng/ul
RT: 9.916 min Scan# 1144
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:107 Resp: 111369
Ion Ratio Lower Upper
107 100
121 47.9 41.8 62.6
122 82.7 72.6 108.8





#27

Bis(2-Chloroethoxy)methane

Concen: 3.885 ng/ul

RT: 10.151 min Scan# 1184

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

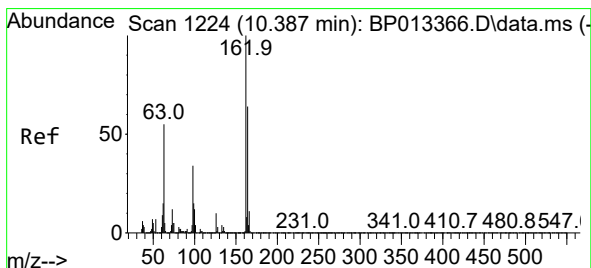
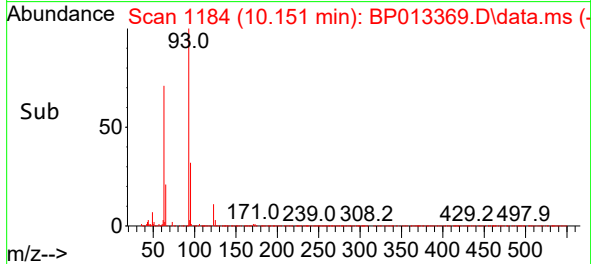
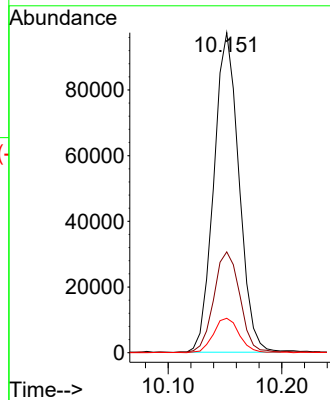
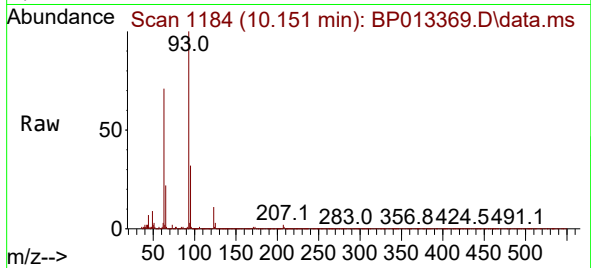
Tgt Ion: 93 Resp: 149443

Ion Ratio Lower Upper

93 100

95 31.5 26.0 39.0

123 10.7 9.2 13.8



#29

2,4-Dichlorophenol

Concen: 3.772 ng/ul

RT: 10.393 min Scan# 1225

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

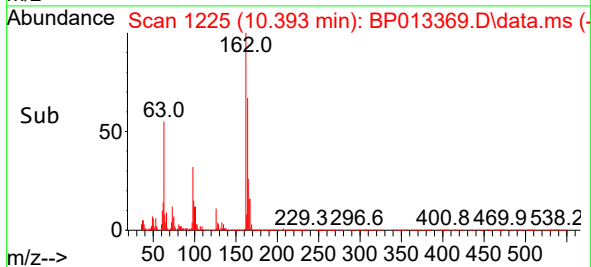
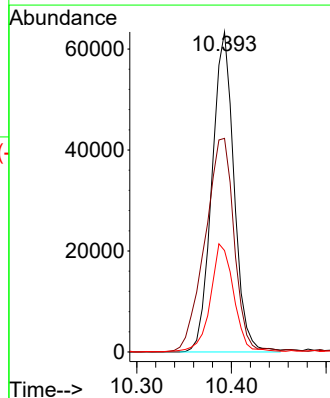
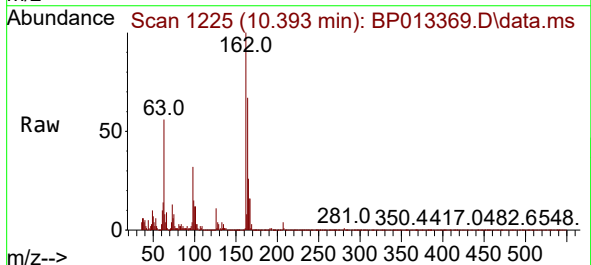
Tgt Ion:162 Resp: 102423

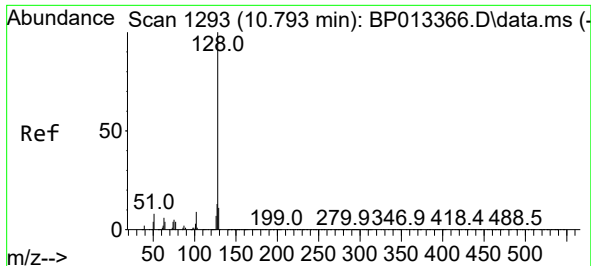
Ion Ratio Lower Upper

162 100

164 66.8 52.5 78.7

98 31.7 26.6 39.8

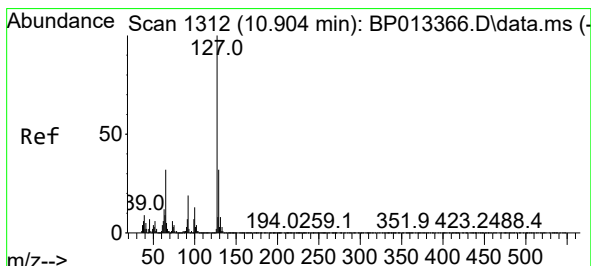
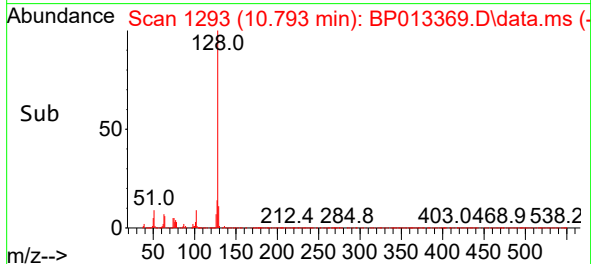
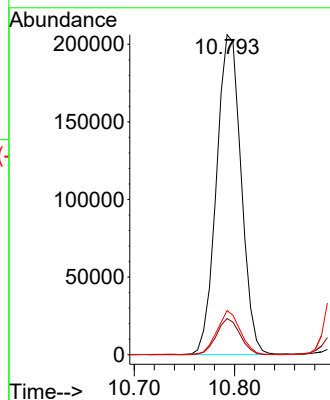
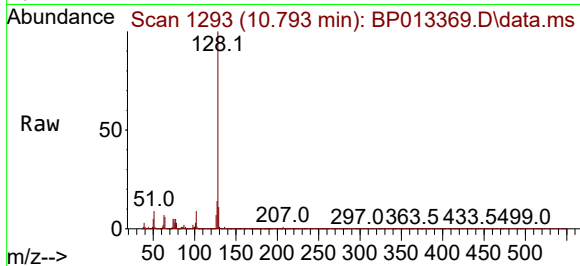




#30
Naphthalene
Concen: 3.899 ng/ul
RT: 10.793 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

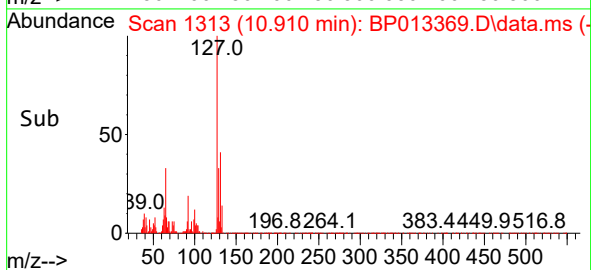
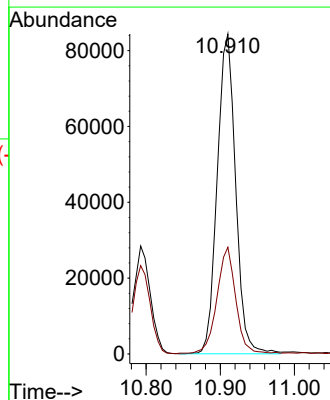
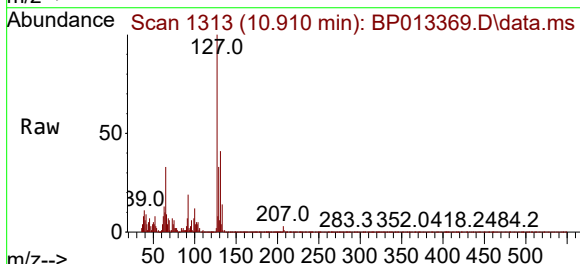
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

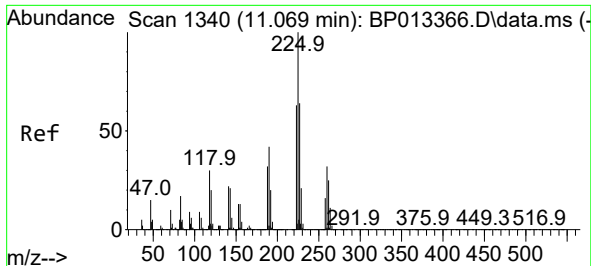
Tgt Ion:128 Resp: 351854
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 13.8 10.4 15.6



#32
4-Chloroaniline
Concen: 3.752 ng/ul
RT: 10.910 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:127 Resp: 145319
Ion Ratio Lower Upper
127 100
129 33.3 25.6 38.4

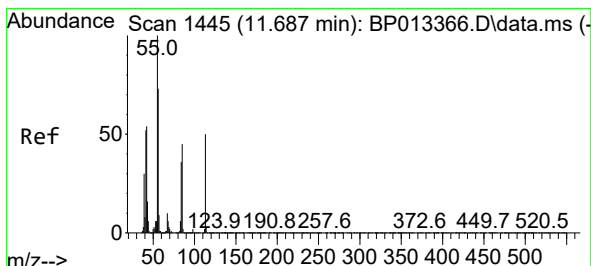
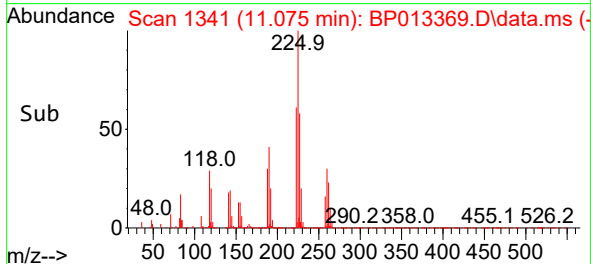
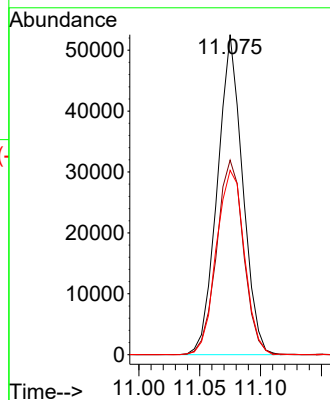
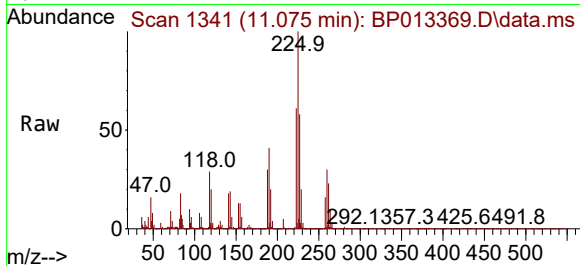




#33
Hexachlorobutadiene
Concen: 4.065 ng/ul
RT: 11.075 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

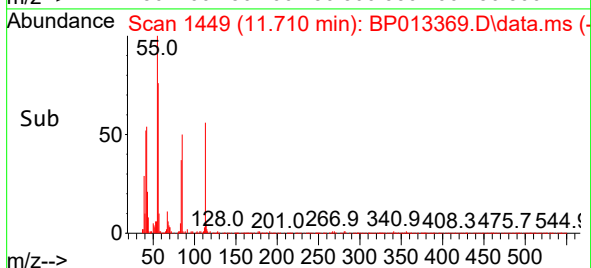
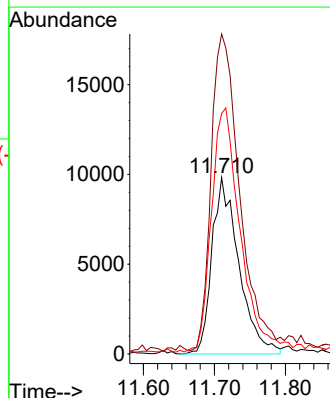
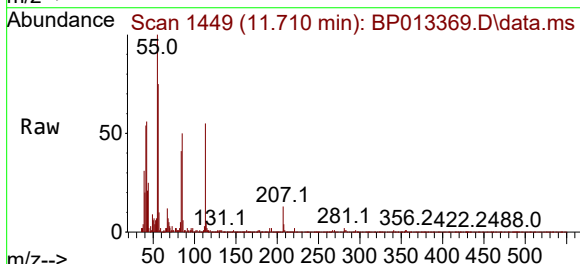
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

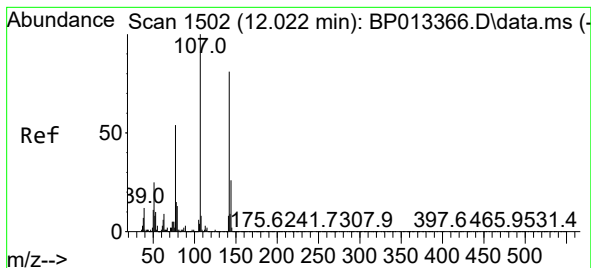
Tgt Ion:225 Resp: 75794
Ion Ratio Lower Upper
225 100
223 60.8 49.2 73.8
227 57.6 50.2 75.2



#34
Caprolactam
Concen: 2.794 ng/ul
RT: 11.710 min Scan# 1449
Delta R.T. 0.018 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:113 Resp: 25870
Ion Ratio Lower Upper
113 100
55 181.6 141.9 212.9
56 136.4 99.6 149.4

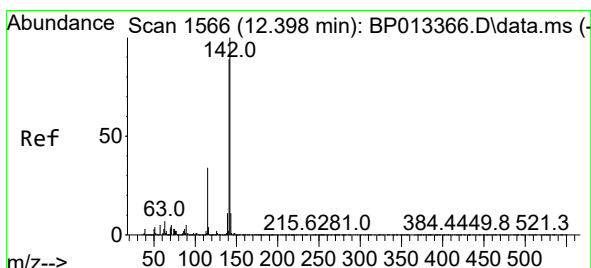
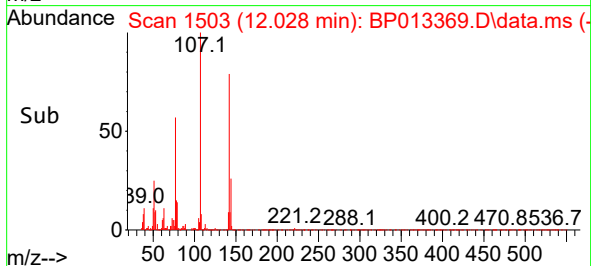
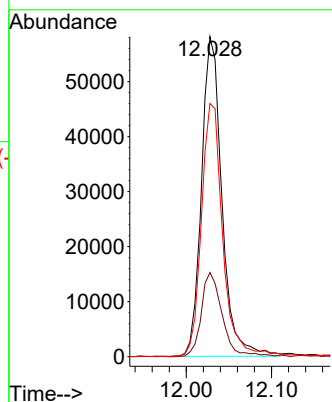
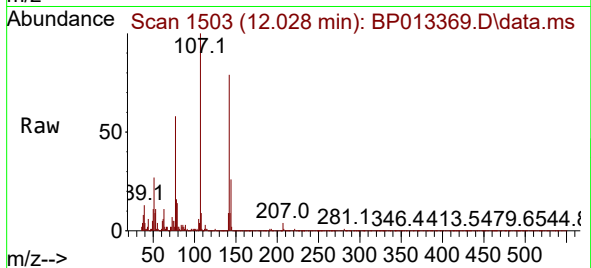




#35
4-Chloro-3-methylphenol
Concen: 3.490 ng/ul
RT: 12.028 min Scan# 1502
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

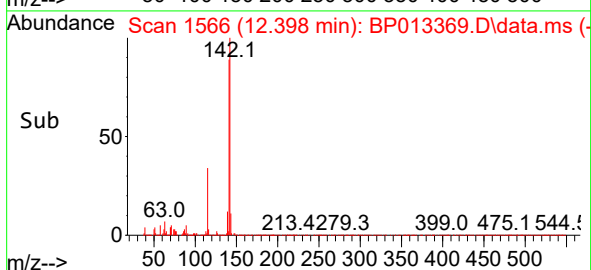
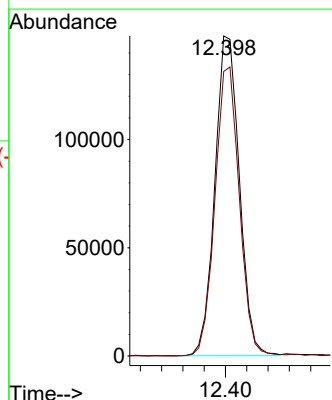
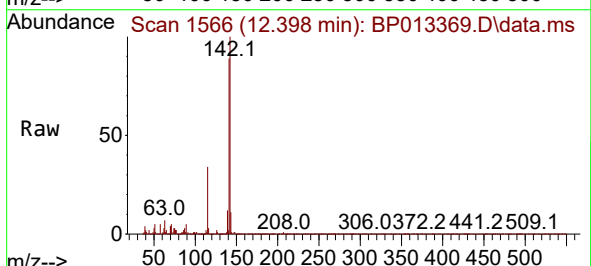
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

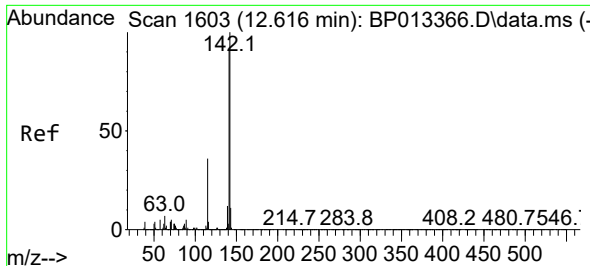
Tgt Ion:107 Resp: 96722
Ion Ratio Lower Upper
107 100
144 26.3 21.4 32.2
142 79.1 65.8 98.6



#36
2-Methylnaphthalene
Concen: 3.807 ng/ul
RT: 12.398 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:142 Resp: 235660
Ion Ratio Lower Upper
142 100
141 88.9 70.8 106.2





#37

1-Methylnaphthalene

Concen: 3.881 ng/ul

RT: 12.622 min Scan# 1604

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

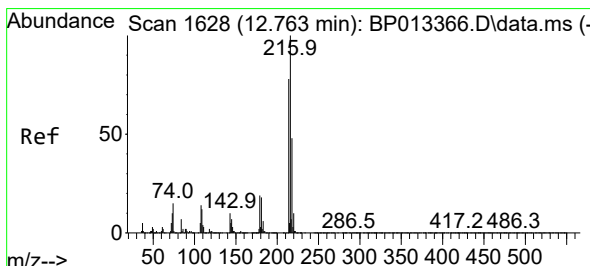
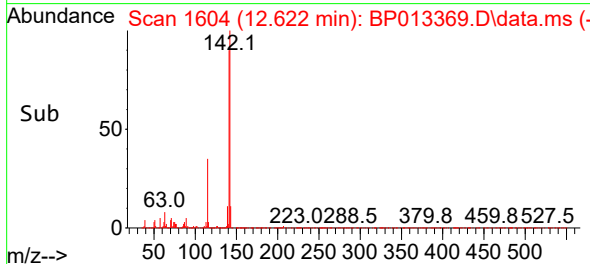
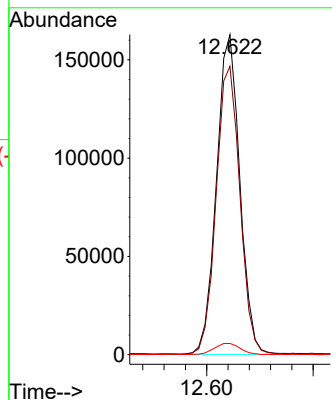
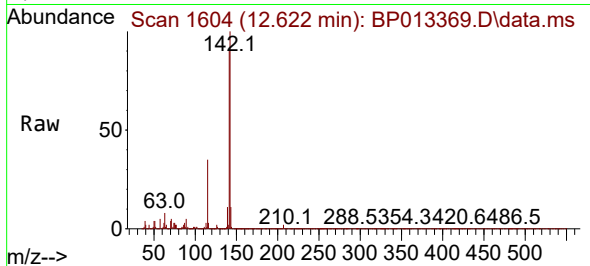
Tgt Ion:142 Resp: 247124

Ion Ratio Lower Upper

142 100

141 90.1 72.7 109.1

116 3.5 2.7 4.1



#39

1,2,4,5-Tetrachlorobenzene

Concen: 3.846 ng/ul

RT: 12.769 min Scan# 1629

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Tgt Ion:216 Resp: 154562

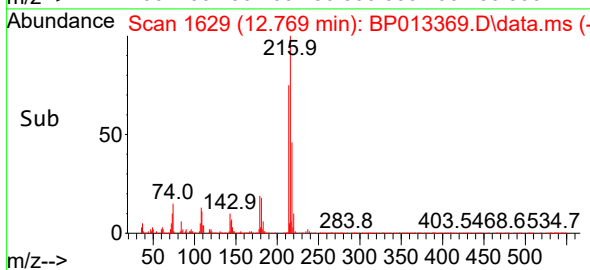
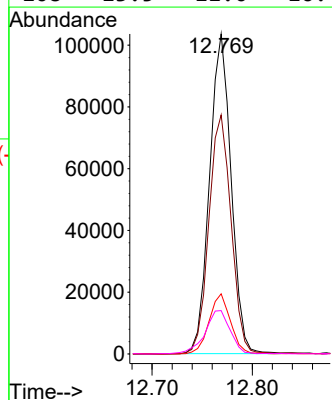
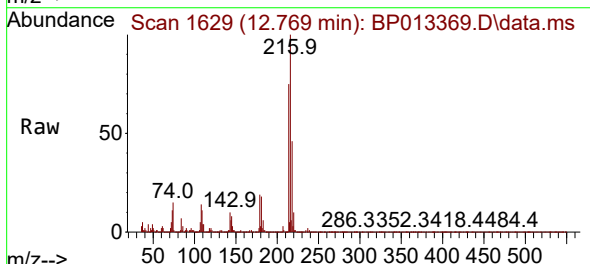
Ion Ratio Lower Upper

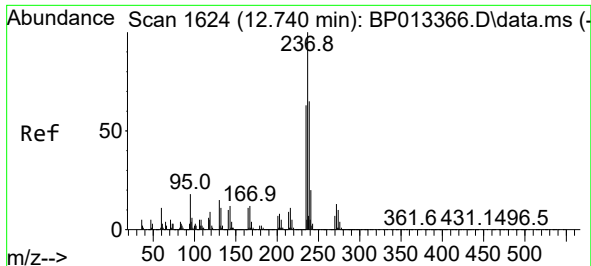
216 100

214 74.7 61.9 92.9

179 18.8 15.0 22.6

108 13.5 11.0 16.4

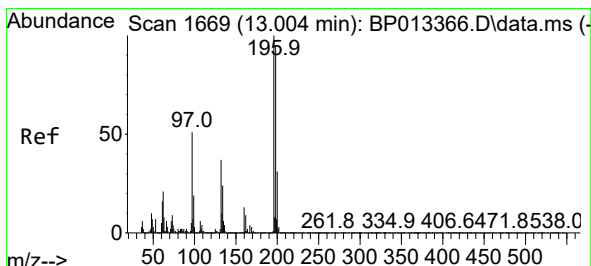
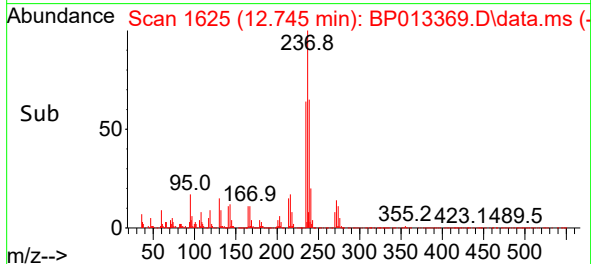
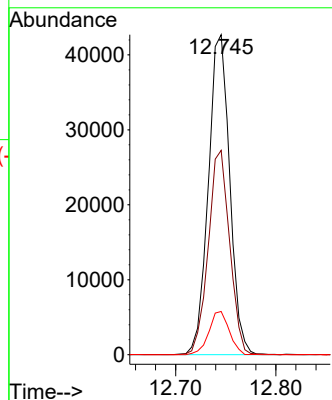
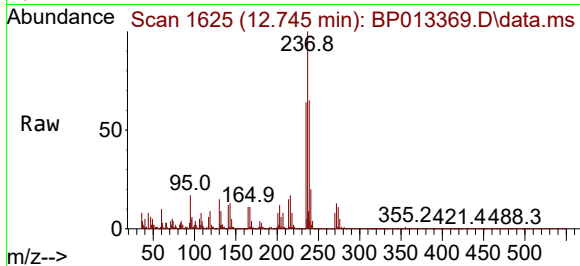




#40
Hexachlorocyclopentadiene
Concen: 2.419 ng/ul
RT: 12.745 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

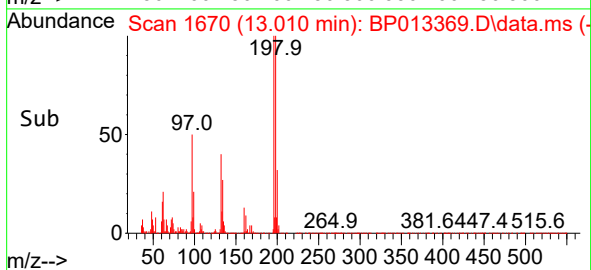
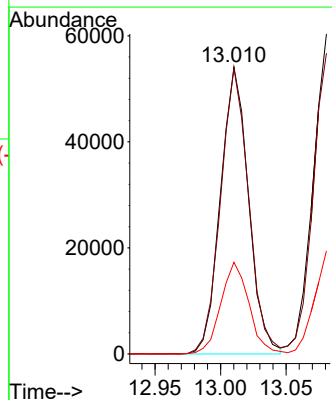
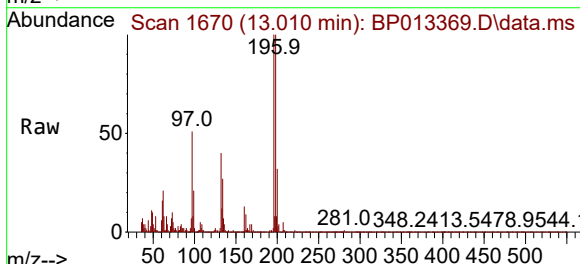
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

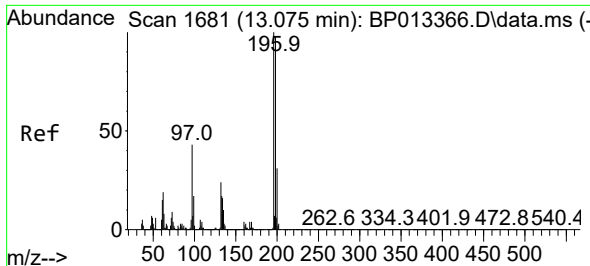
Tgt Ion:237 Resp: 63263
Ion Ratio Lower Upper
237 100
235 63.8 49.7 74.5
272 13.5 10.8 16.2



#41
2,4,6-Trichlorophenol
Concen: 3.112 ng/ul
RT: 13.010 min Scan# 1670
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:196 Resp: 80358
Ion Ratio Lower Upper
196 100
198 99.7 77.0 115.6
200 32.0 25.3 37.9

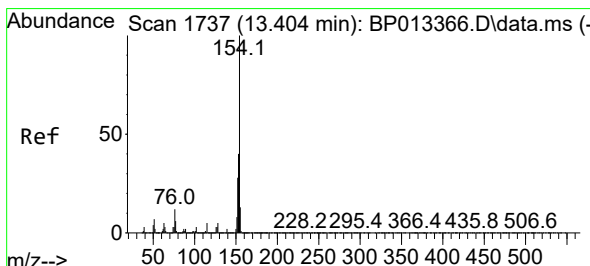
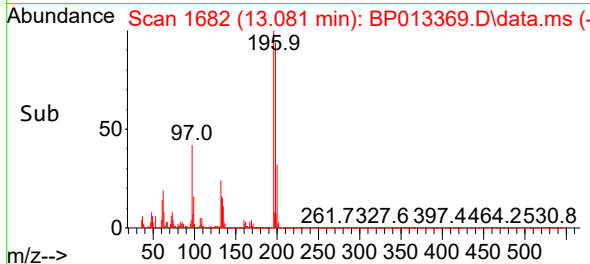
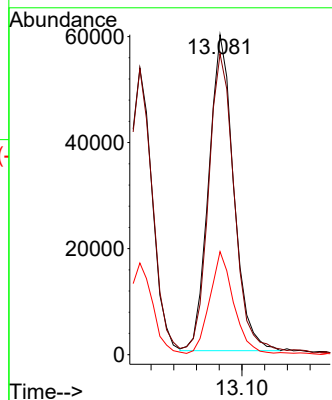
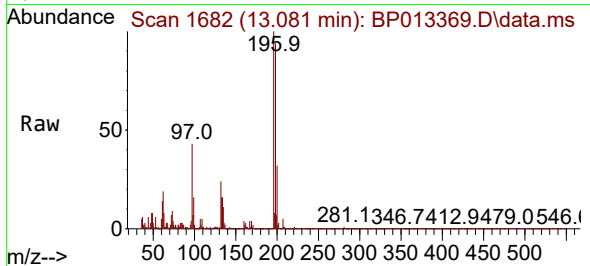




#42
2,4,5-Trichlorophenol
Concen: 3.287 ng/ul
RT: 13.081 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

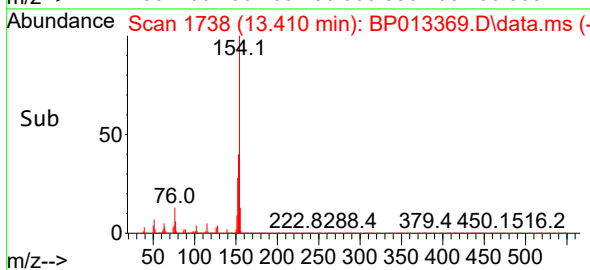
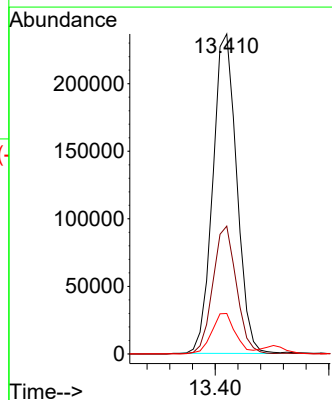
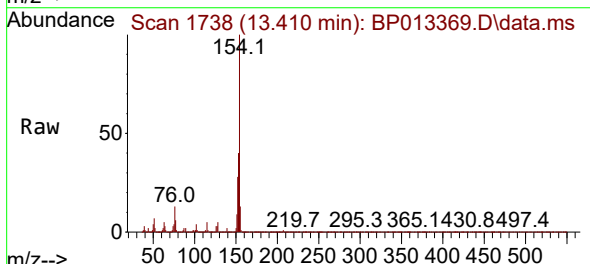
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

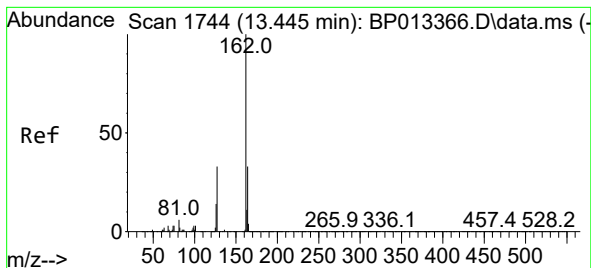
Tgt Ion:196 Resp: 91169
Ion Ratio Lower Upper
196 100
198 94.0 77.1 115.7
200 32.2 25.4 38.2



#43
1,1'-Biphenyl
Concen: 3.685 ng/ul
RT: 13.410 min Scan# 1738
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:154 Resp: 345389
Ion Ratio Lower Upper
154 100
153 40.0 31.5 47.3
76 12.7 9.6 14.4





#44

2-Chloronaphthalene

Concen: 3.699 ng/ul

RT: 13.451 min Scan# 1745

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

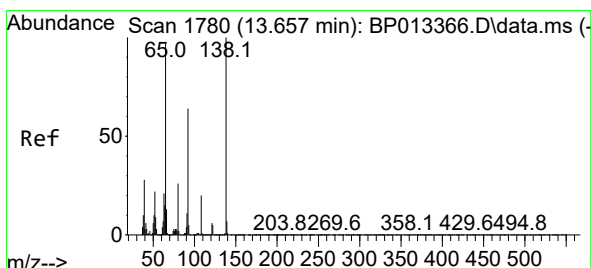
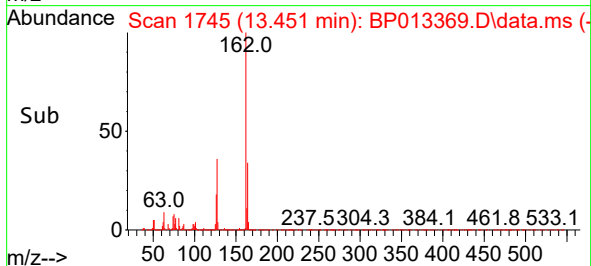
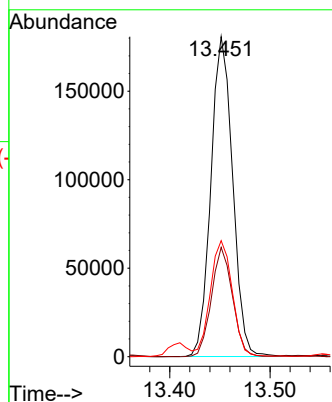
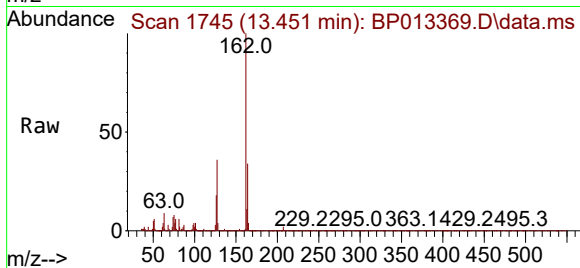
Tgt Ion:162 Resp: 272874

Ion Ratio Lower Upper

162 100

164 34.1 26.3 39.5

127 36.3 29.3 43.9



#45

2-Nitroaniline

Concen: 3.174 ng/ul

RT: 13.663 min Scan# 1781

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

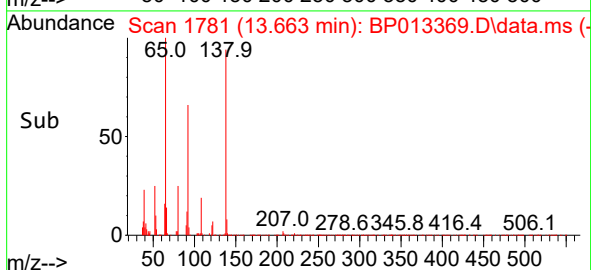
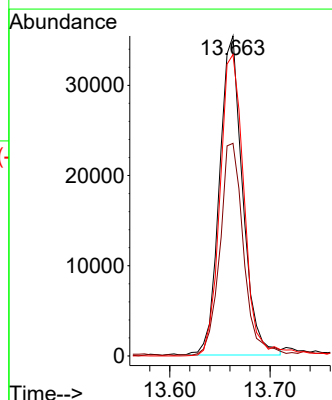
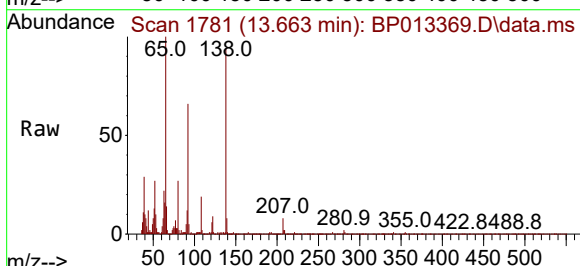
Tgt Ion: 65 Resp: 56759

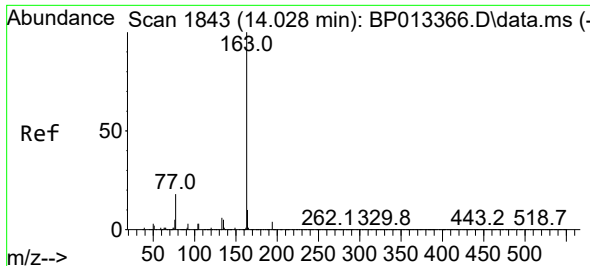
Ion Ratio Lower Upper

65 100

92 66.5 56.4 84.6

138 94.2 90.3 135.5

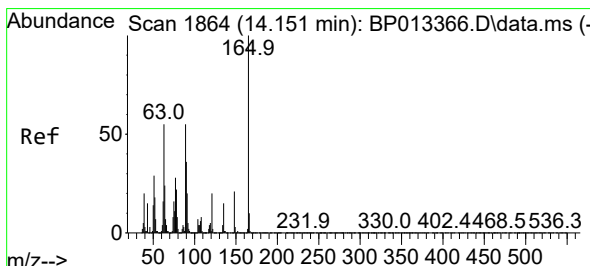
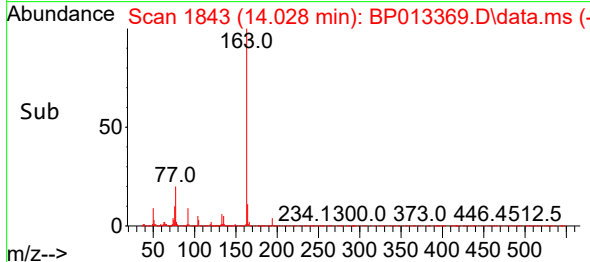
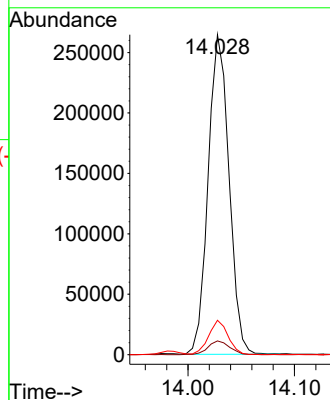
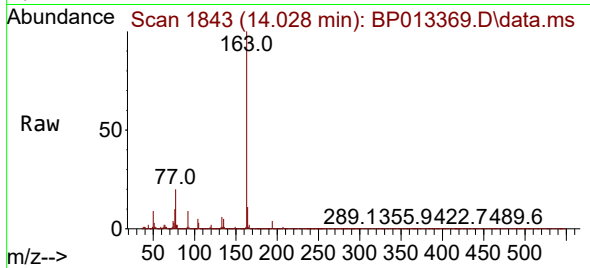




#47
Dimethylphthalate
Concen: 3.793 ng/ul
RT: 14.028 min Scan# 1843
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

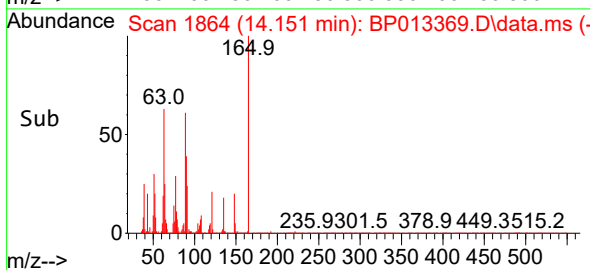
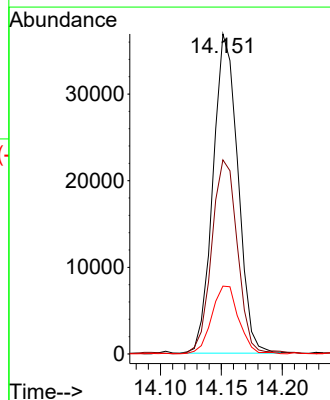
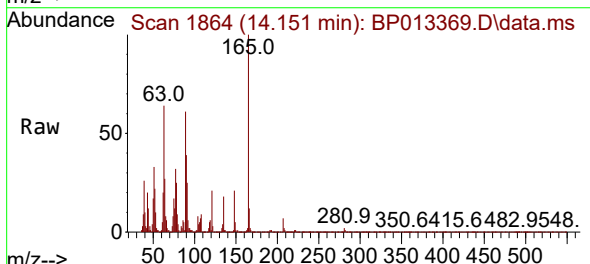
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

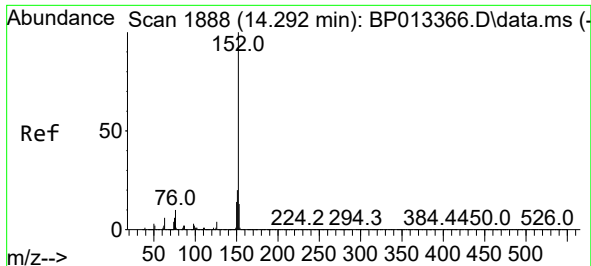
Tgt Ion:163 Resp: 360530
Ion Ratio Lower Upper
163 100
194 4.3 3.4 5.0
164 10.7 8.3 12.5



#48
2,6-Dinitrotoluene
Concen: 2.963 ng/ul
RT: 14.151 min Scan# 1864
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:165 Resp: 52345
Ion Ratio Lower Upper
165 100
89 60.7 43.0 64.4
121 21.2 16.1 24.1

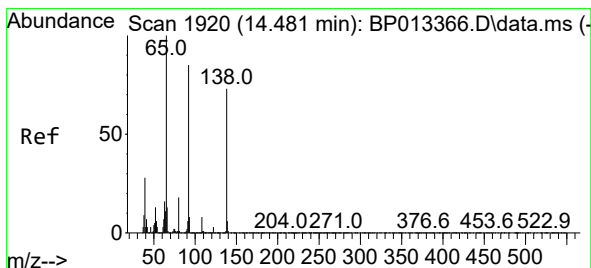
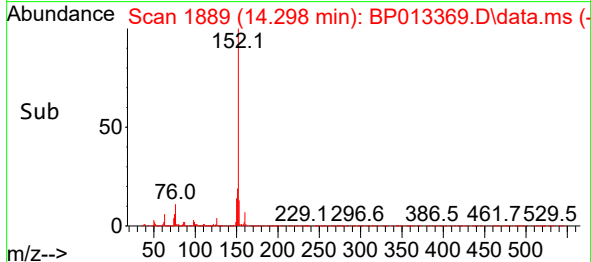
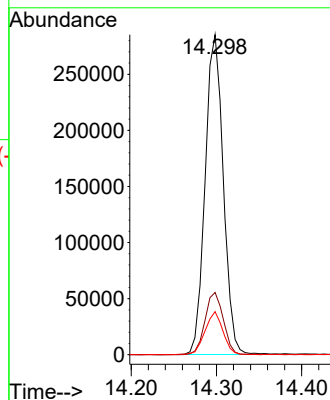
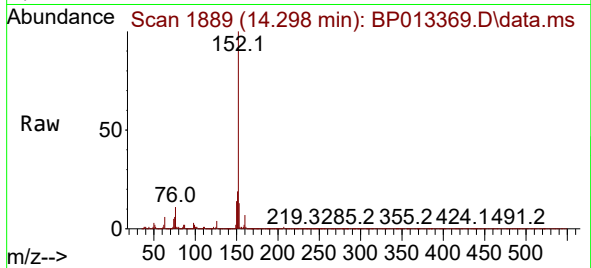




#50
Acenaphthylene
Concen: 3.732 ng/ul
RT: 14.298 min Scan# 1888
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

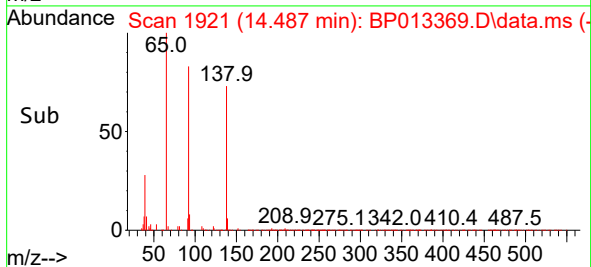
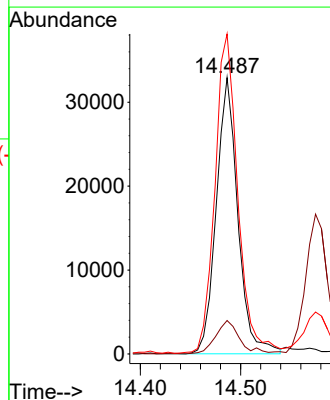
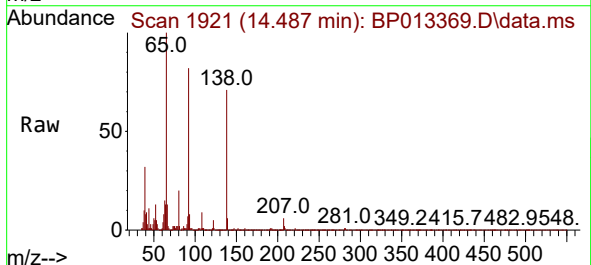
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

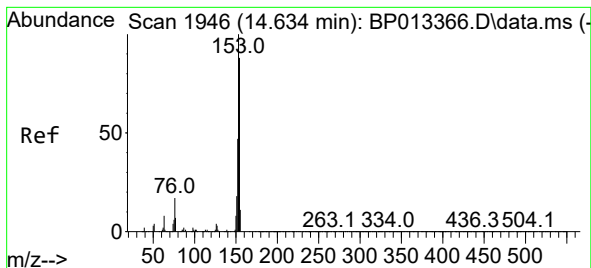
Tgt Ion:152 Resp: 422810
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.6
153 13.5 10.6 16.0



#51
3-Nitroaniline
Concen: 2.950 ng/ul
RT: 14.487 min Scan# 1921
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:138 Resp: 49215
Ion Ratio Lower Upper
138 100
108 12.1 8.6 13.0
92 115.8 88.4 132.6





#52

Acenaphthene

Concen: 3.773 ng/ul

RT: 14.639 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

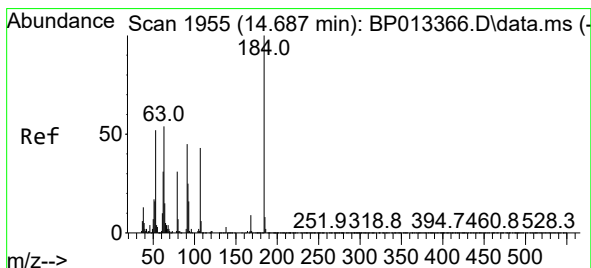
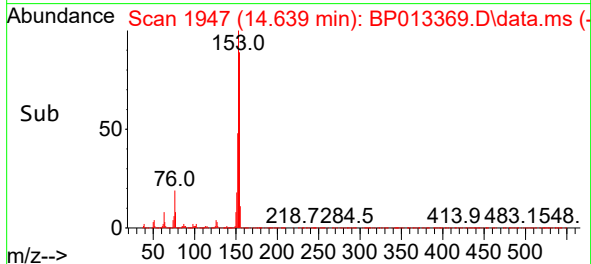
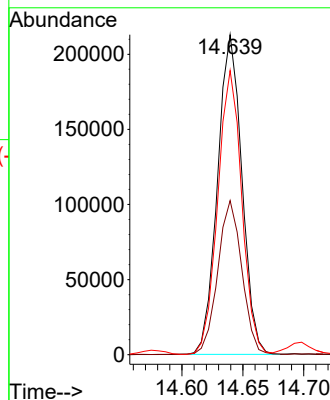
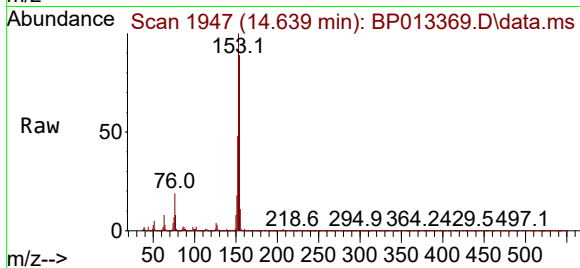
Tgt Ion:153 Resp: 296243

Ion Ratio Lower Upper

153 100

152 48.2 38.2 57.4

154 88.8 70.8 106.2



#53

2,4-Dinitrophenol

Concen: 1.669 ng/ul

RT: 14.698 min Scan# 1957

Delta R.T. 0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

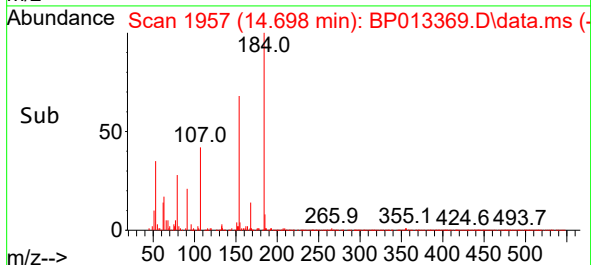
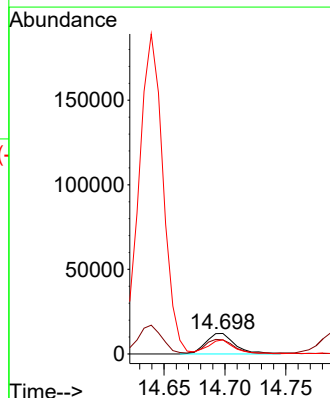
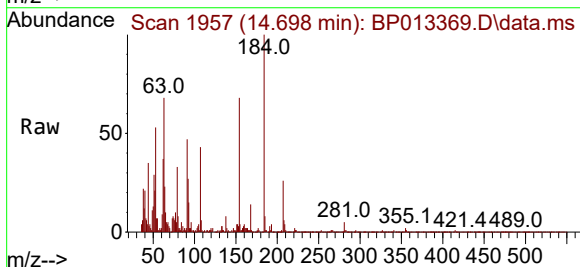
Tgt Ion:184 Resp: 20155

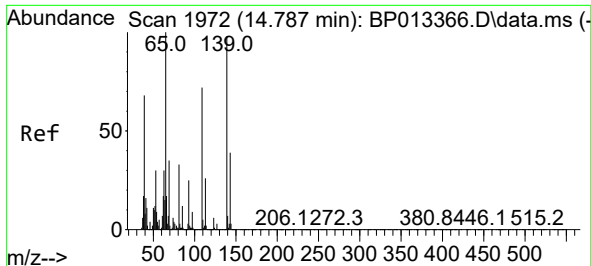
Ion Ratio Lower Upper

184 100

63 68.4 48.4 72.6

154 68.3 45.5 68.3

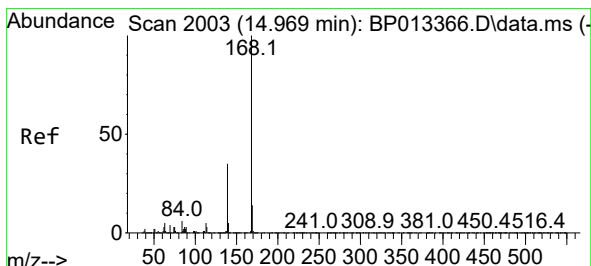
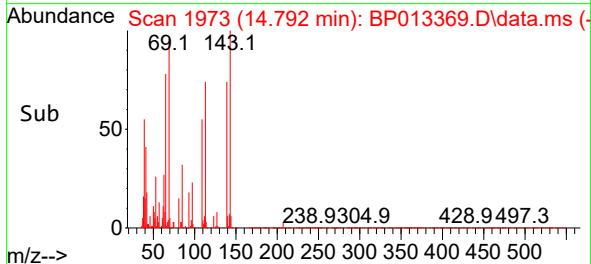
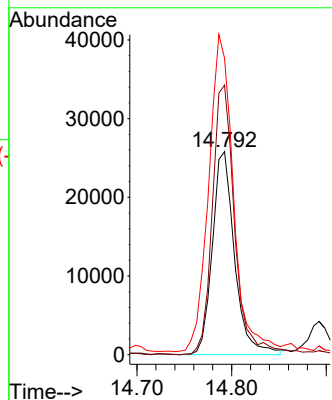
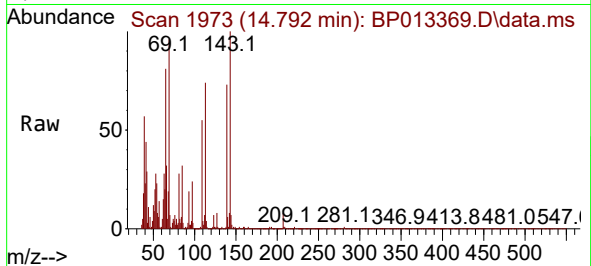




#55
4-Nitrophenol
Concen: 3.574 ng/ul
RT: 14.792 min Scan# 1972
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

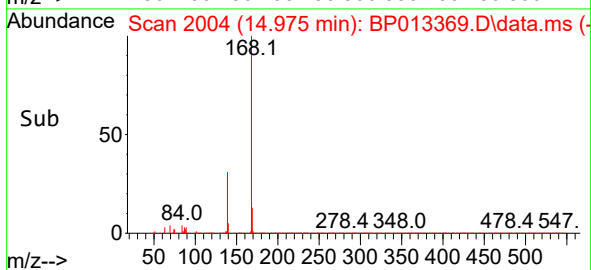
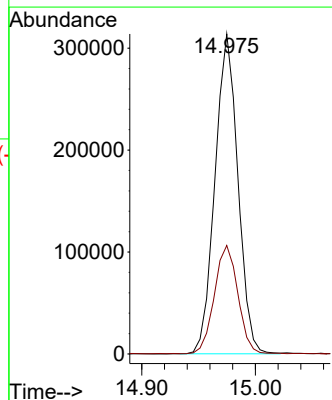
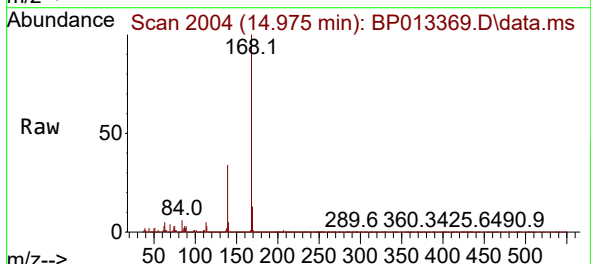
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

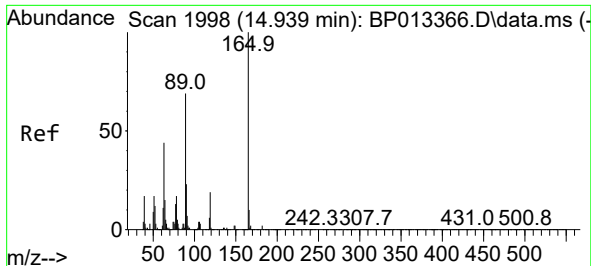
Tgt Ion:109 Resp: 42071
Ion Ratio Lower Upper
109 100
139 132.8 120.8 181.2
65 146.1 107.9 161.9



#56
Dibenzofuran
Concen: 3.943 ng/ul
RT: 14.975 min Scan# 2004
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:168 Resp: 440182
Ion Ratio Lower Upper
168 100
139 33.9 27.9 41.9





#57

2,4-Dinitrotoluene

Concen: 3.109 ng/ul

RT: 14.945 min Scan# 1998

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

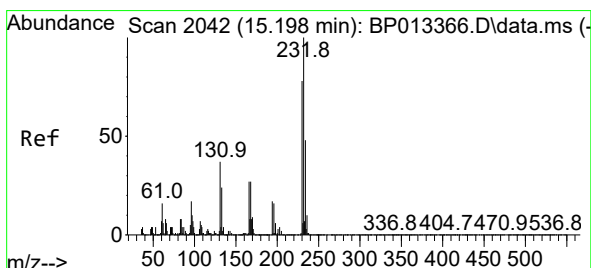
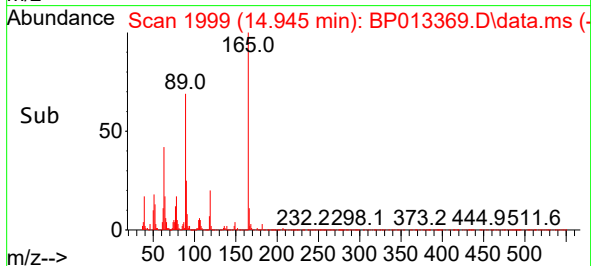
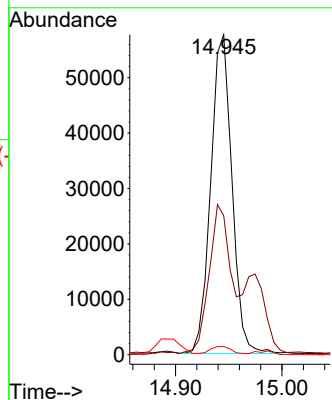
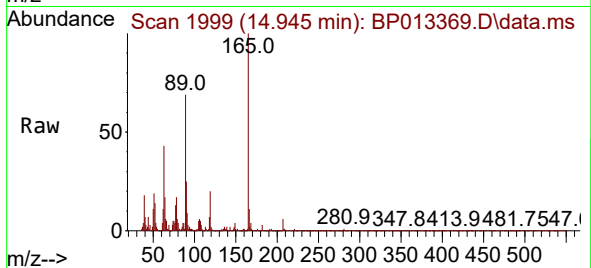
Tgt Ion:165 Resp: 79786

Ion Ratio Lower Upper

165 100

63 43.4 31.8 47.6

182 2.5 2.1 3.1



#58

2,3,4,6-Tetrachlorophenol

Concen: 3.294 ng/ul

RT: 15.204 min Scan# 2043

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Tgt Ion:232 Resp: 83394

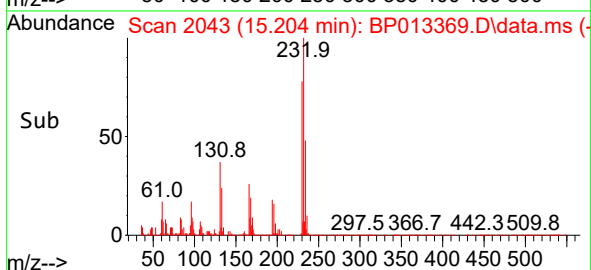
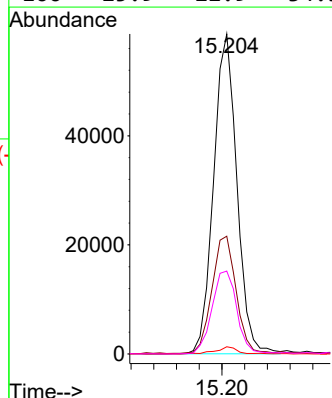
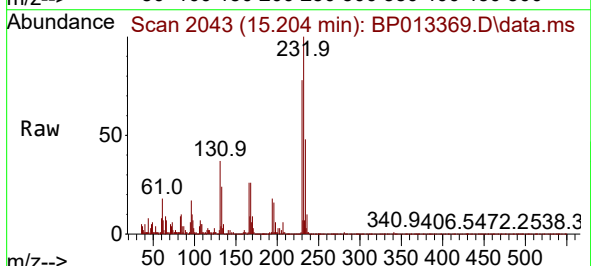
Ion Ratio Lower Upper

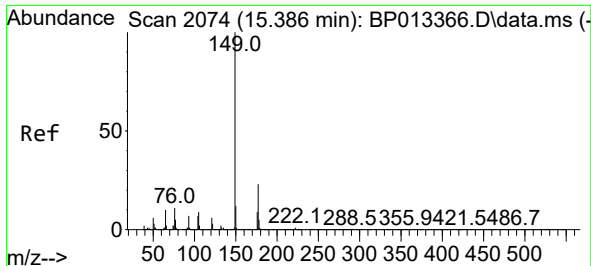
232 100

131 36.8 31.8 47.6

130 2.3 1.8 2.6

166 25.9 22.9 34.3

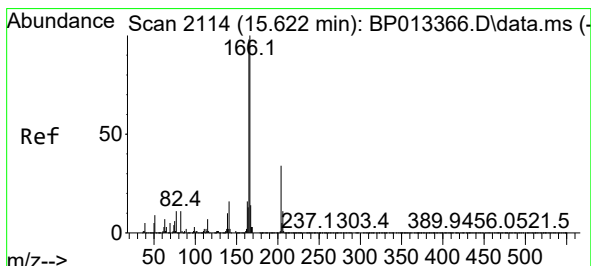
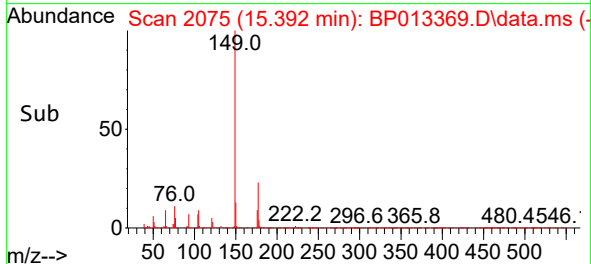
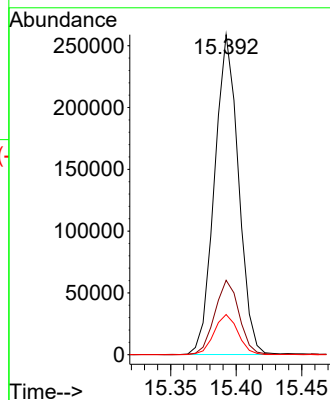
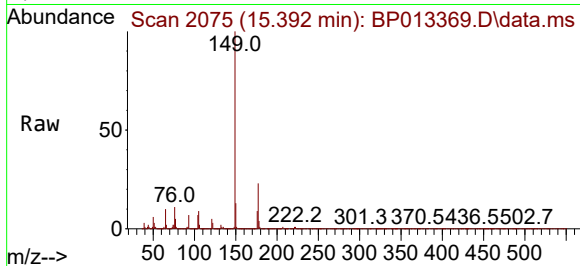




#59
Diethylphthalate
Concen: 3.558 ng/ul
RT: 15.392 min Scan# 2075
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

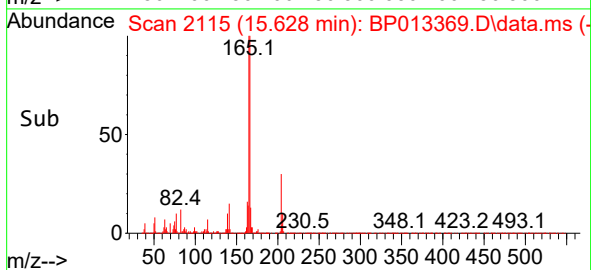
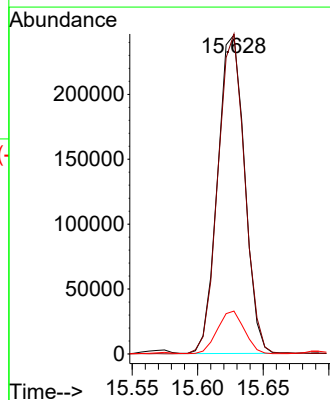
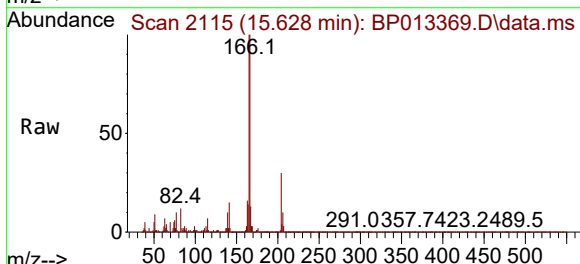
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

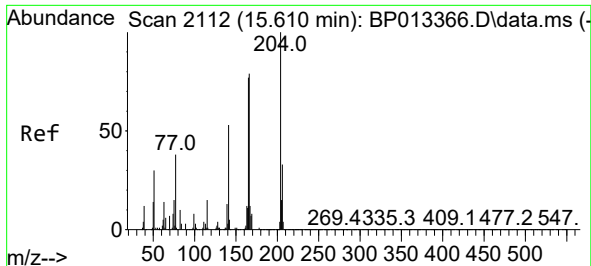
Tgt Ion:149 Resp: 328836
Ion Ratio Lower Upper
149 100
177 23.3 18.4 27.6
150 12.5 9.9 14.9



#61
Fluorene
Concen: 3.925 ng/ul
RT: 15.628 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:166 Resp: 351370
Ion Ratio Lower Upper
166 100
165 100.3 77.4 116.2
167 13.4 10.6 16.0

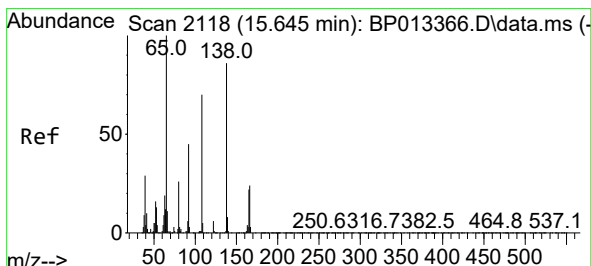
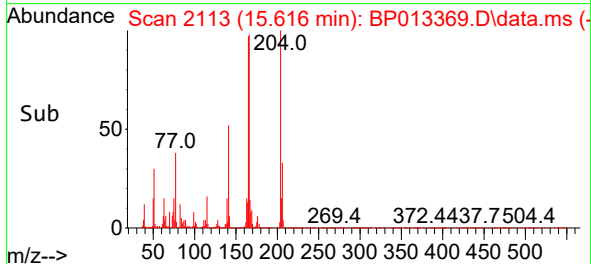
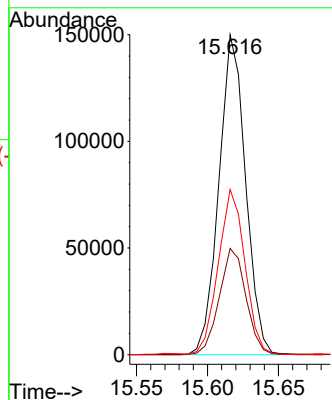
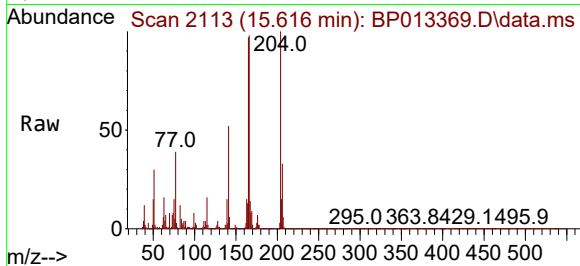




#62
4-Chlorophenyl-phenylether
Concen: 4.140 ng/ul
RT: 15.616 min Scan# 2112
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

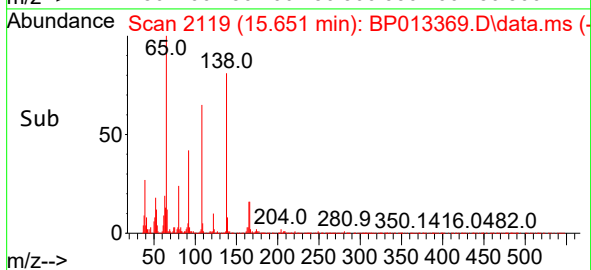
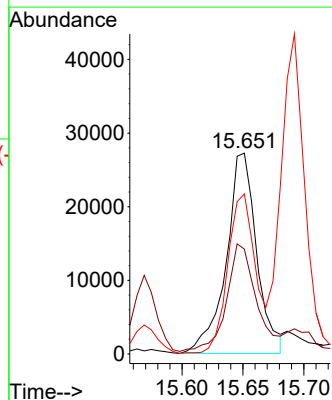
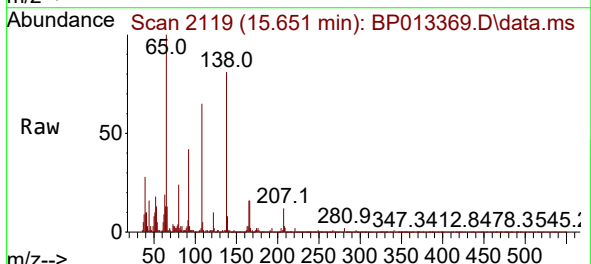
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

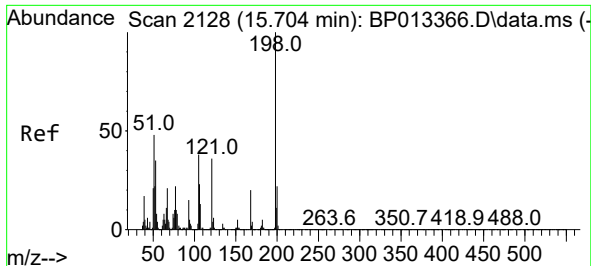
Tgt Ion:204 Resp: 196011
Ion Ratio Lower Upper
204 100
206 33.2 26.3 39.5
141 51.6 40.4 60.6



#63
4-Nitroaniline
Concen: 3.245 ng/ul
RT: 15.651 min Scan# 2119
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:138 Resp: 47634
Ion Ratio Lower Upper
138 100
92 52.2 39.0 58.4
108 79.7 55.1 82.7

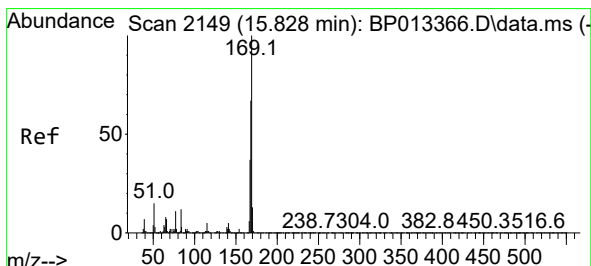
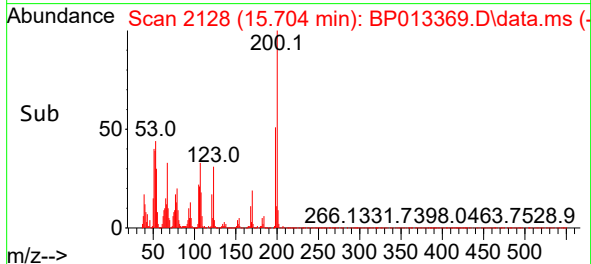
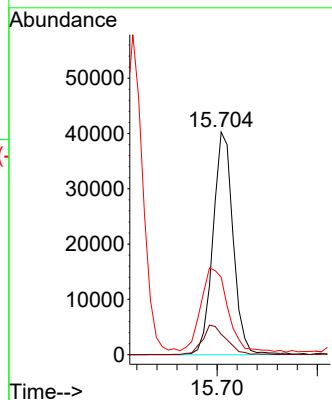
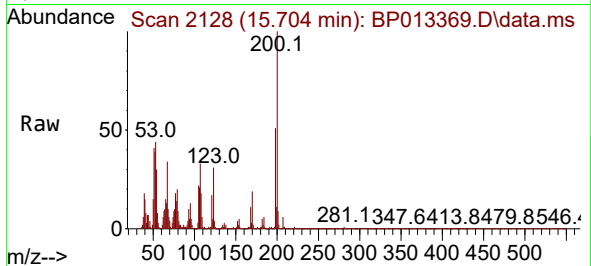




#66
4,6-Dinitro-2-methylphenol
Concen: 3.050 ng/ul
RT: 15.704 min Scan# 2128
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

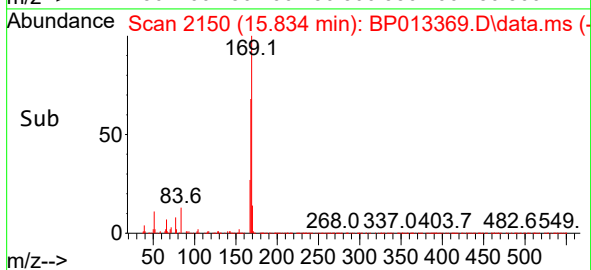
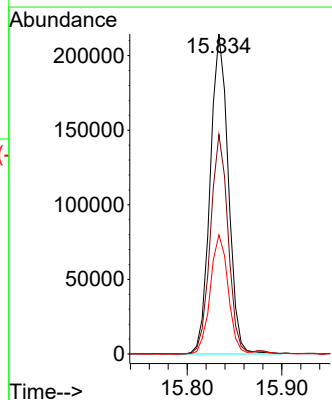
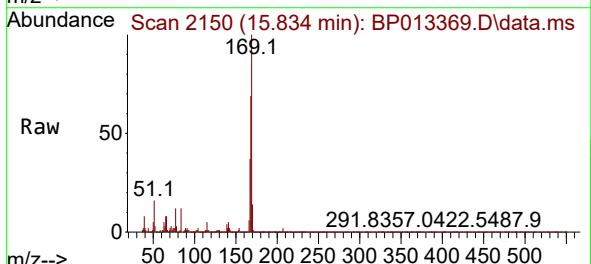
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

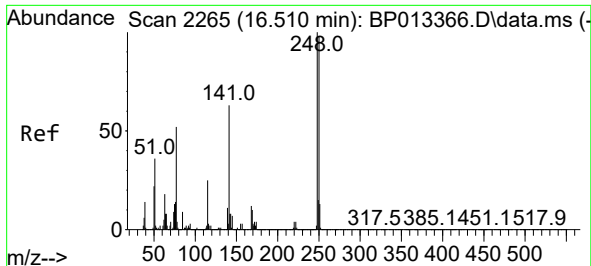
Tgt Ion:198 Resp: 55963
Ion Ratio Lower Upper
198 100
182 9.2 3.3 4.9#
77 34.8 16.6 25.0#



#67
N-Nitrosodiphenylamine
Concen: 3.514 ng/ul
RT: 15.834 min Scan# 2150
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:169 Resp: 284275
Ion Ratio Lower Upper
169 100
168 68.6 53.0 79.6
167 37.2 29.1 43.7

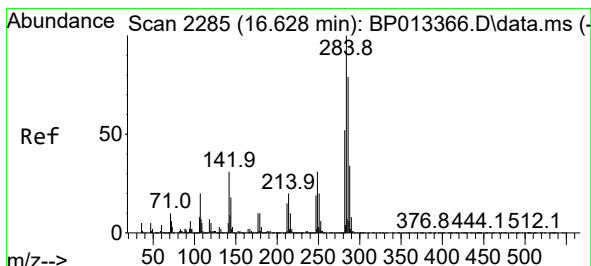
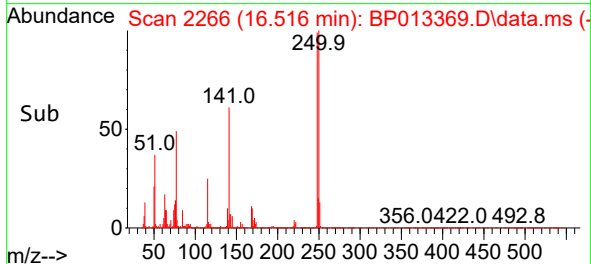
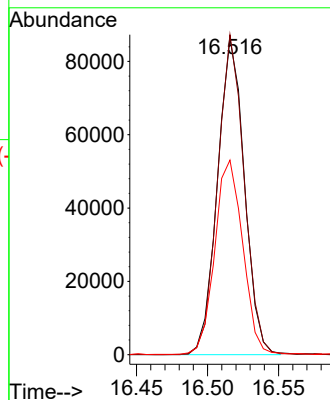
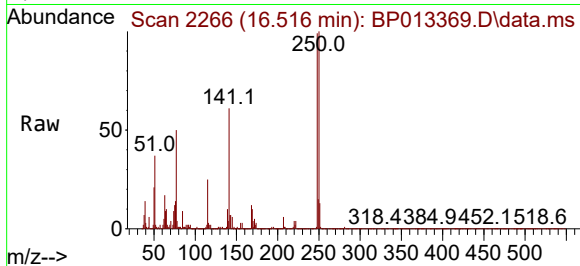




#68
4-Bromophenyl-phenylether
Concen: 3.593 ng/ul
RT: 16.516 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

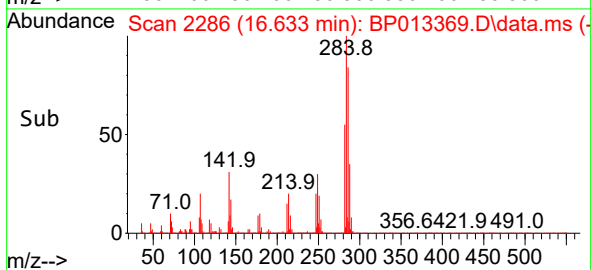
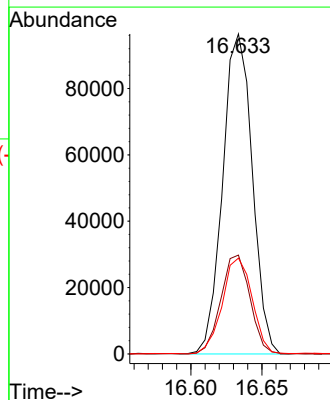
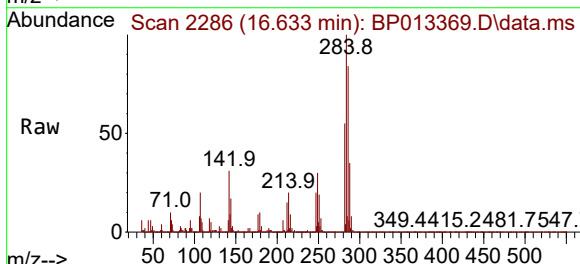
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

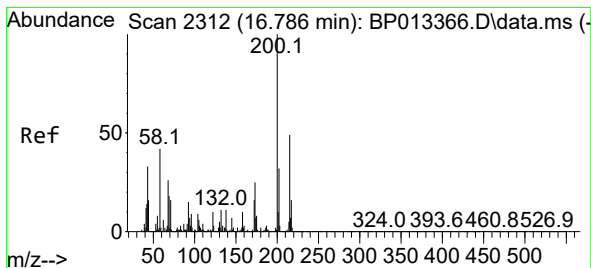
Tgt Ion:248 Resp: 113853
Ion Ratio Lower Upper
248 100
250 101.2 77.4 116.0
141 61.5 48.3 72.5



#69
Hexachlorobenzene
Concen: 3.717 ng/ul
RT: 16.633 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:284 Resp: 139863
Ion Ratio Lower Upper
284 100
142 30.9 22.6 34.0
249 29.9 24.6 37.0





#70

Atrazine

Concen: 3.090 ng/ul

RT: 16.786 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

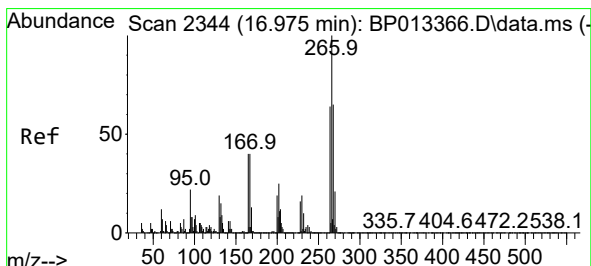
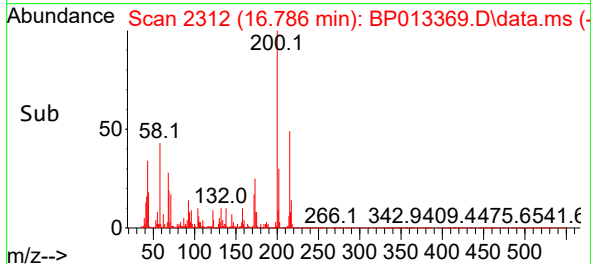
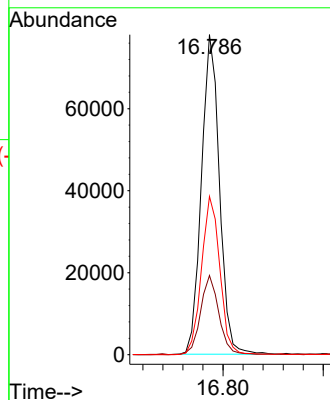
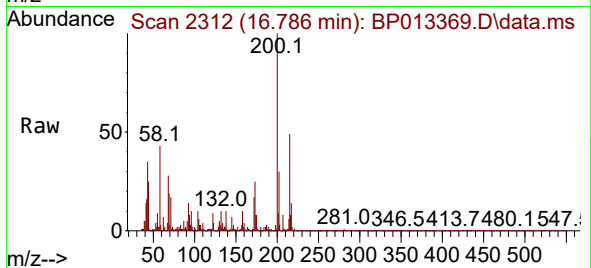
Tgt Ion:200 Resp: 97405

Ion Ratio Lower Upper

200 100

173 24.7 20.5 30.7

215 49.5 39.9 59.9



#71

Pentachlorophenol

Concen: 2.407 ng/ul

RT: 16.980 min Scan# 2345

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

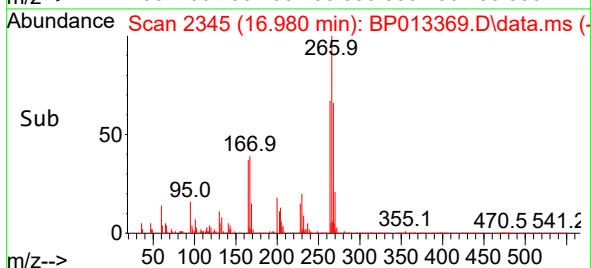
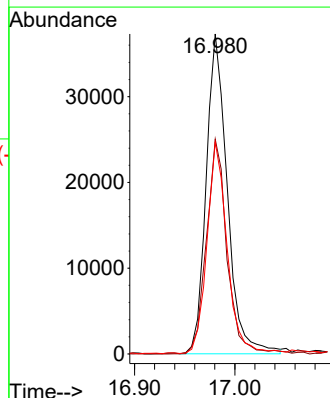
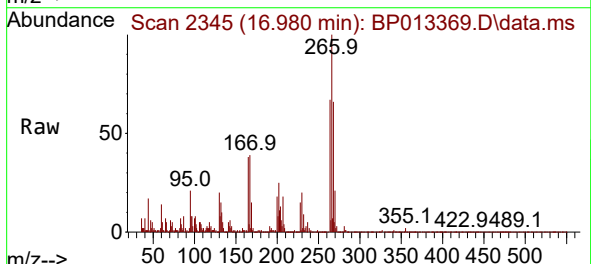
Tgt Ion:266 Resp: 54832

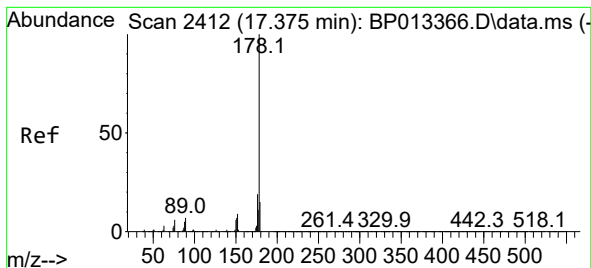
Ion Ratio Lower Upper

266 100

264 67.1 50.9 76.3

268 66.3 51.4 77.2





#72

Phenanthrene

Concen: 3.840 ng/ul

RT: 17.375 min Scan# 2412

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

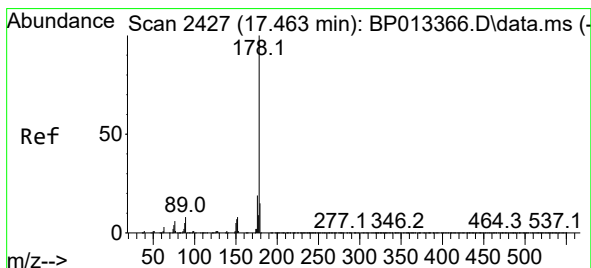
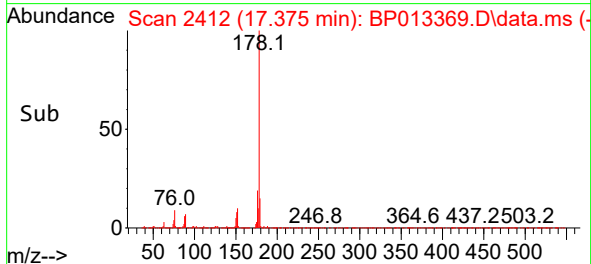
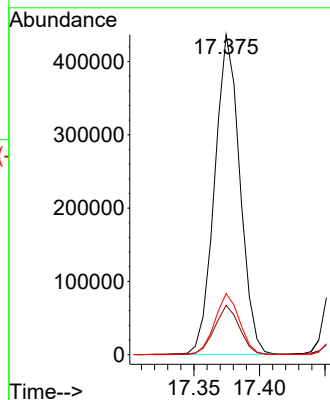
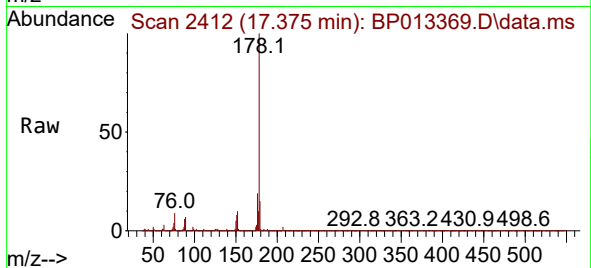
Tgt Ion:178 Resp: 583556

Ion Ratio Lower Upper

178 100

179 15.4 12.5 18.7

176 19.1 15.4 23.0



#74

Anthracene

Concen: 3.819 ng/ul

RT: 17.469 min Scan# 2428

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

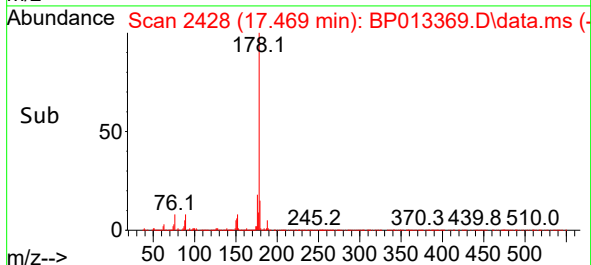
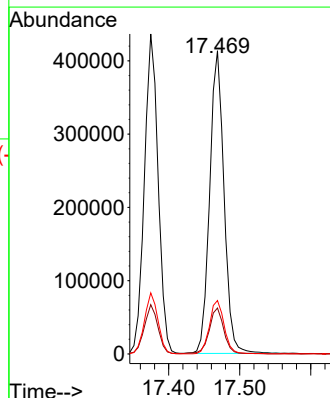
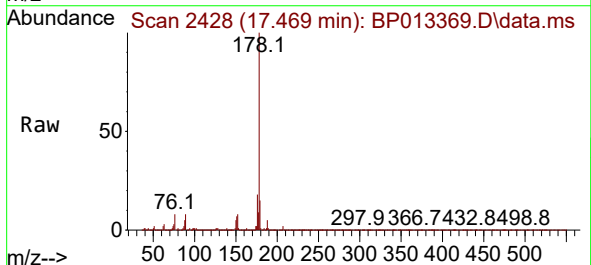
Tgt Ion:178 Resp: 579523

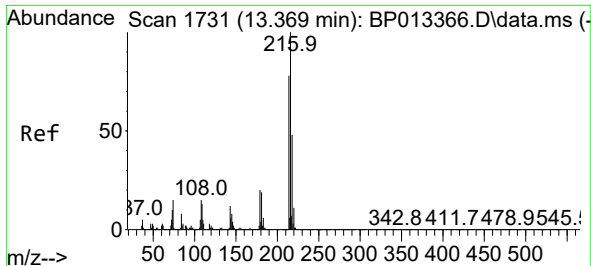
Ion Ratio Lower Upper

178 100

179 15.2 12.5 18.7

176 17.6 14.8 22.2

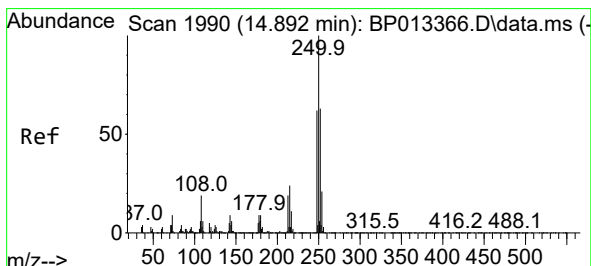
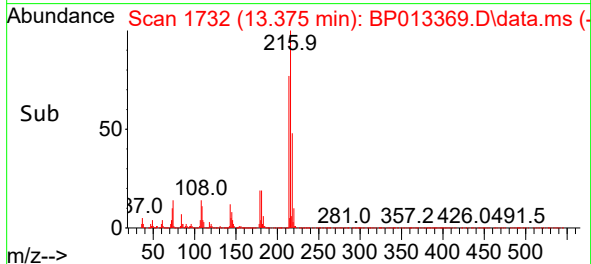
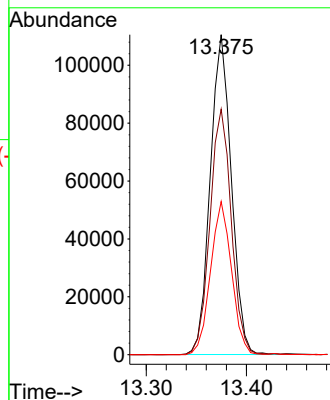
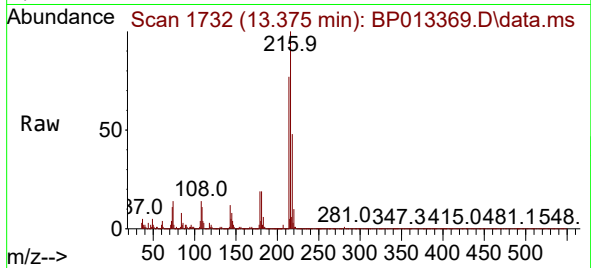




#75
1,2,3,4-Tetrachlorobenzene
Concen: 3.890 ng/uL
RT: 13.375 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

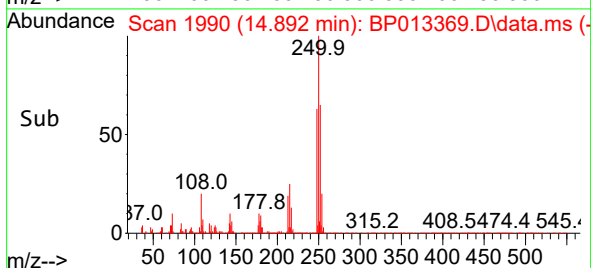
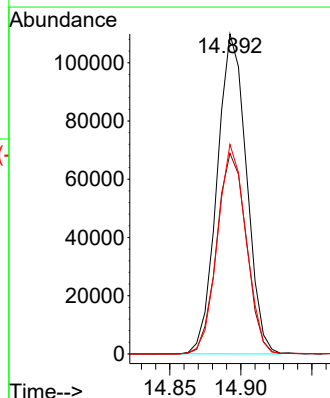
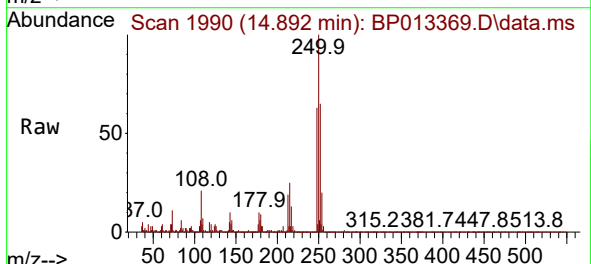
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

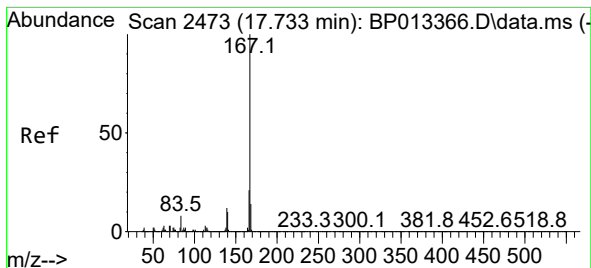
Tgt Ion:216 Resp: 161943
Ion Ratio Lower Upper
216 100
214 76.7 62.2 93.2
218 47.8 38.9 58.3



#76
Pentachlorobenzene
Concen: 3.723 ng/uL
RT: 14.892 min Scan# 1990
Delta R.T. -0.000 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:250 Resp: 157998
Ion Ratio Lower Upper
250 100
248 62.7 50.6 76.0
252 65.5 51.1 76.7





#77

Carbazole

Concen: 3.529 ng/ul

RT: 17.739 min Scan# 2473

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

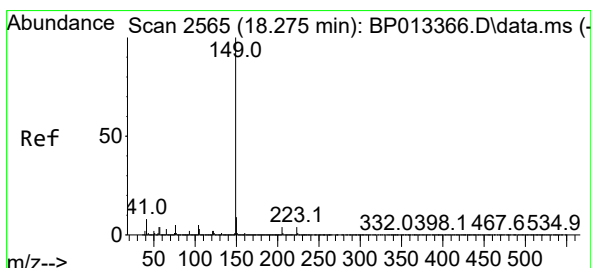
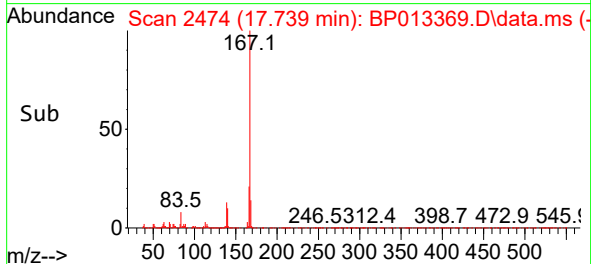
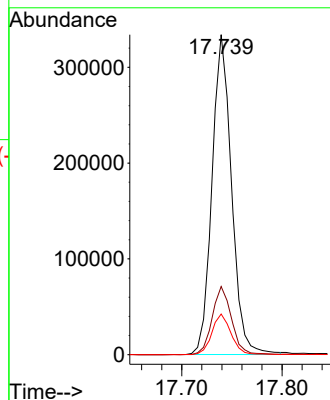
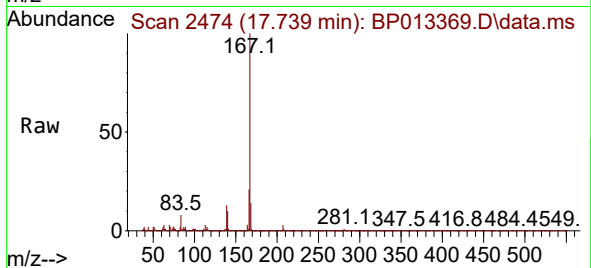
Tgt Ion:167 Resp: 451039

Ion Ratio Lower Upper

167 100

166 21.3 17.2 25.8

139 12.7 9.4 14.2



#78

Di-n-butylphthalate

Concen: 3.013 ng/ul

RT: 18.280 min Scan# 2566

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

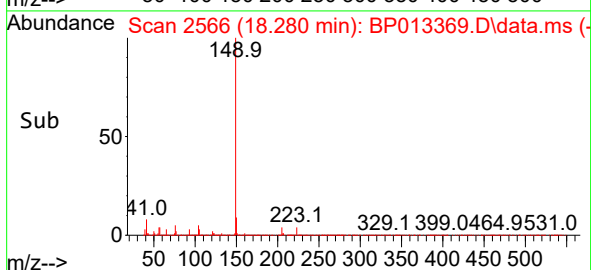
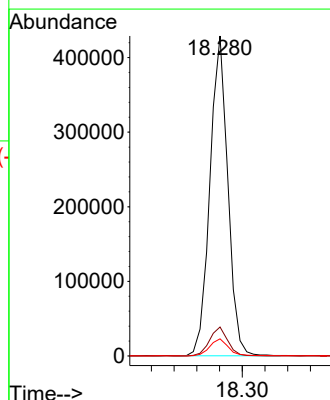
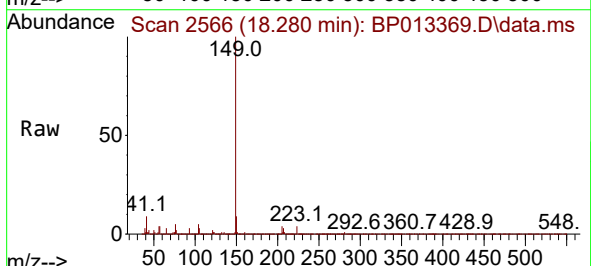
Tgt Ion:149 Resp: 468844

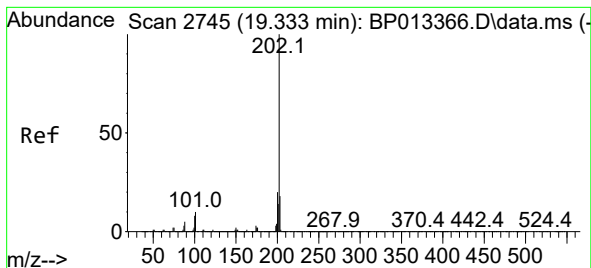
Ion Ratio Lower Upper

149 100

150 9.0 7.5 11.3

104 5.3 3.8 5.6





#80

Fluoranthene

Concen: 3.868 ng/ul

RT: 19.339 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

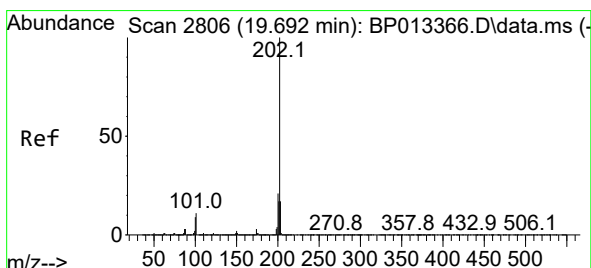
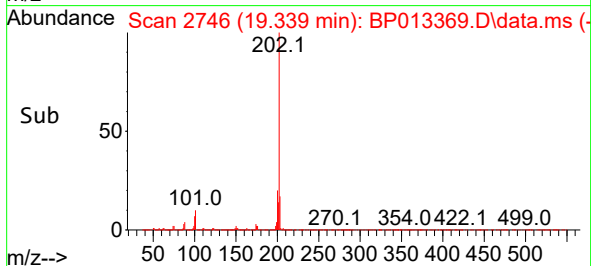
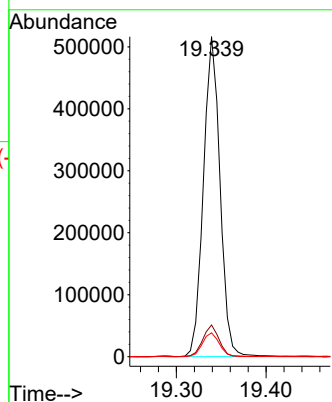
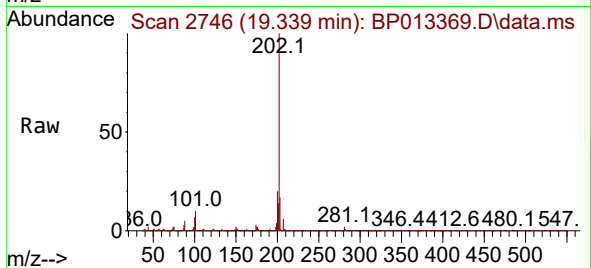
Tgt Ion:202 Resp: 662897

Ion Ratio Lower Upper

202 100

101 9.9 8.2 12.2

100 7.5 6.1 9.1



#82

Pyrene

Concen: 4.135 ng/ul

RT: 19.692 min Scan# 2806

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

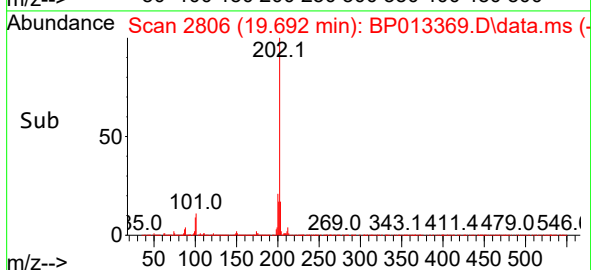
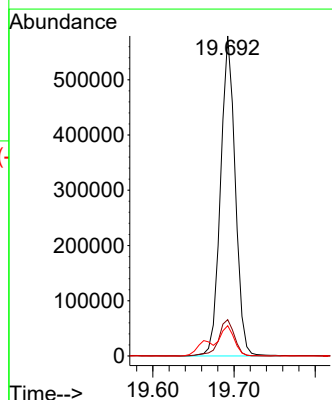
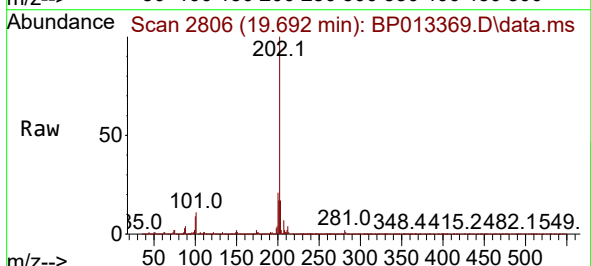
Tgt Ion:202 Resp: 731098

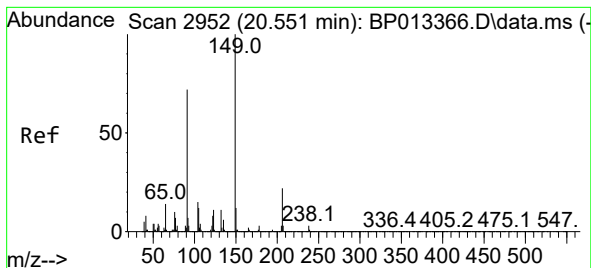
Ion Ratio Lower Upper

202 100

101 11.4 9.4 14.2

100 9.5 7.8 11.8





#83

Butylbenzylphthalate

Concen: 2.736 ng/ul

RT: 20.557 min Scan# 2953

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

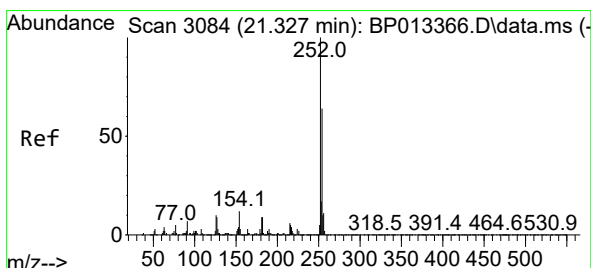
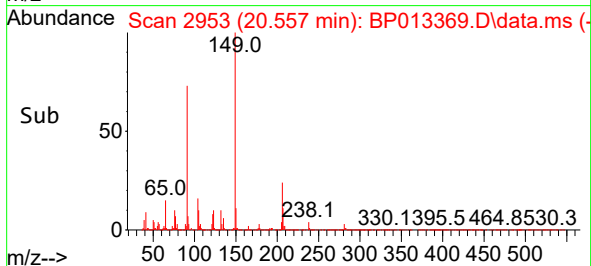
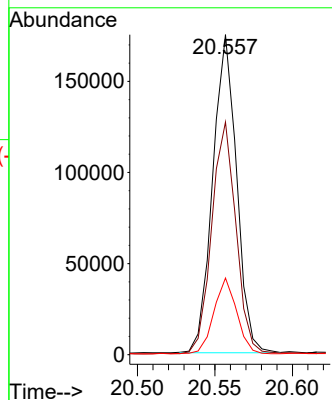
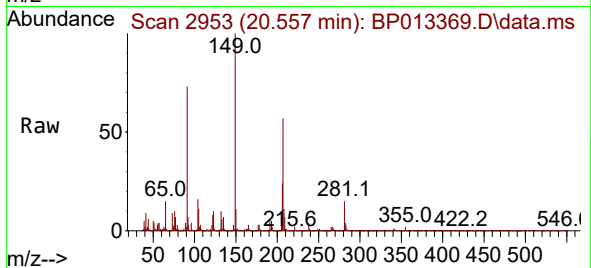
Tgt Ion:149 Resp: 186869

Ion Ratio Lower Upper

149 100

91 72.7 53.4 80.0

206 23.9 17.9 26.9



#84

3,3'-Dichlorobenzidine

Concen: 2.803 ng/ul

RT: 21.333 min Scan# 3085

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

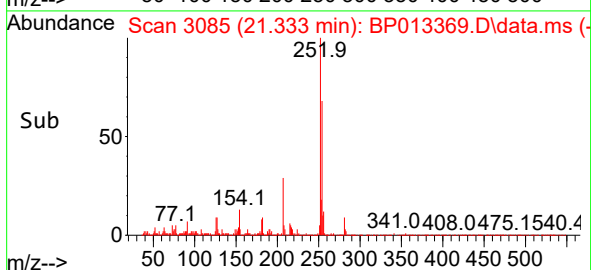
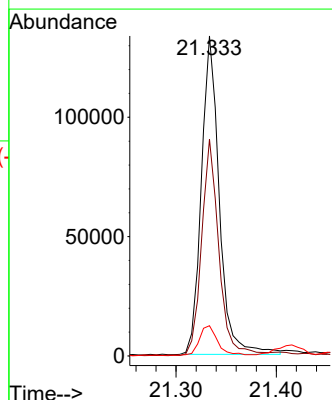
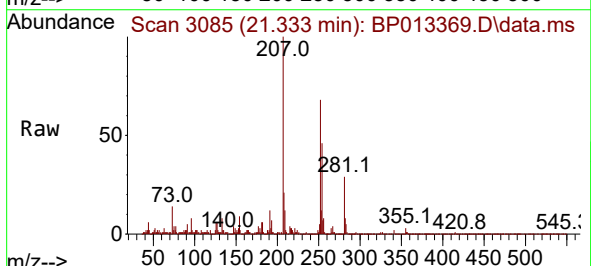
Tgt Ion:252 Resp: 166607

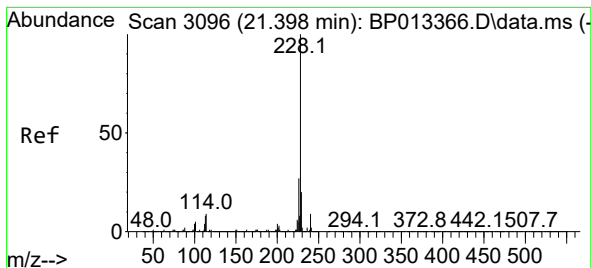
Ion Ratio Lower Upper

252 100

254 67.8 51.8 77.8

126 9.4 7.4 11.2





#85

Benzo(a)anthracene

Concen: 3.714 ng/ul

RT: 21.404 min Scan# 3097

Delta R.T. -0.000 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

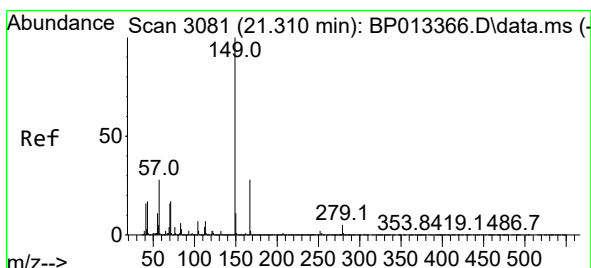
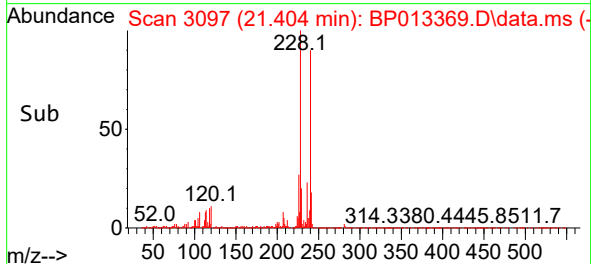
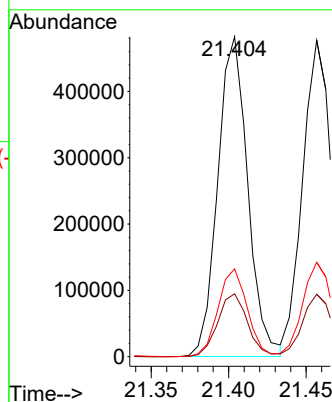
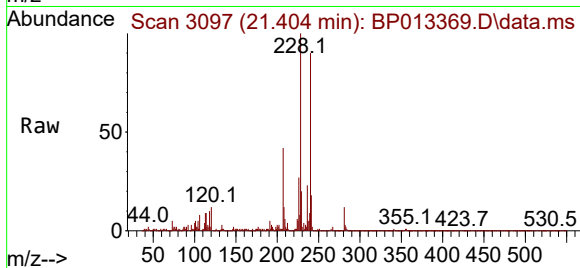
Tgt Ion:228 Resp: 648746

Ion Ratio Lower Upper

228 100

229 19.7 16.1 24.1

226 27.5 22.0 33.0



#86

Bis(2-ethylhexyl)phthalate

Concen: 2.721 ng/ul

RT: 21.310 min Scan# 3081

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

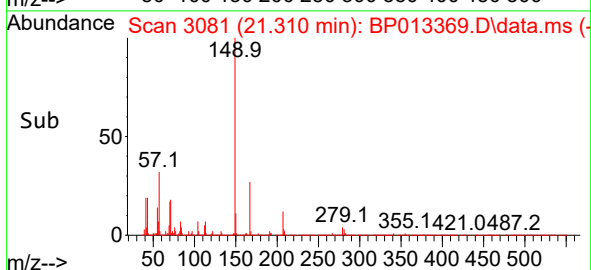
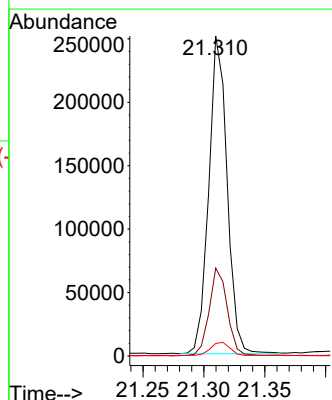
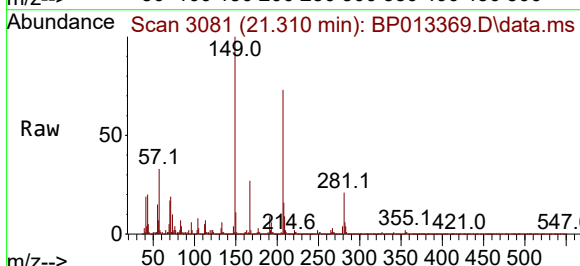
Tgt Ion:149 Resp: 262147

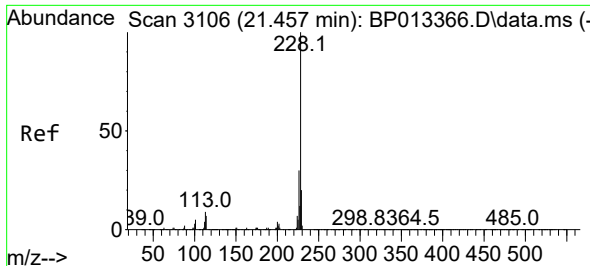
Ion Ratio Lower Upper

149 100

167 27.4 22.5 33.7

279 3.9 3.8 5.8





#87

Chrysene

Concen: 3.808 ng/ul

RT: 21.457 min Scan# 3106

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

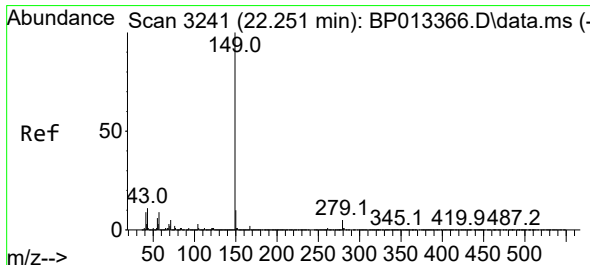
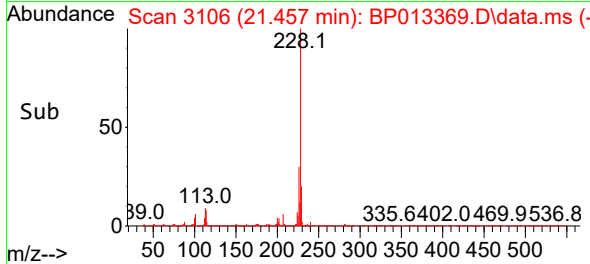
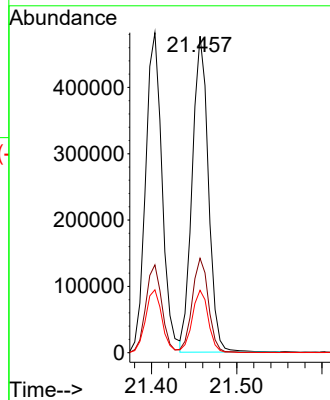
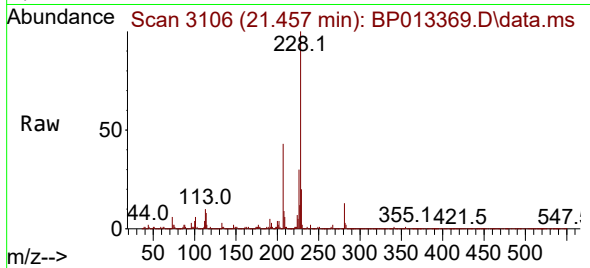
Tgt Ion:228 Resp: 628987

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

229 19.7 16.0 24.0



#89

Di-n-octyl phthalate

Concen: 3.070 ng/ul

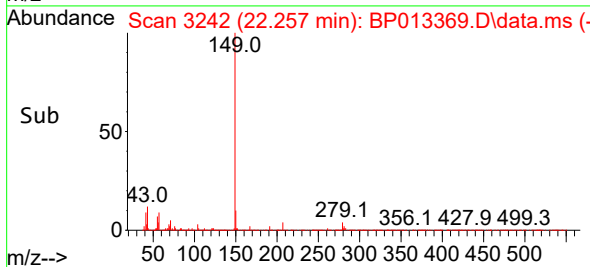
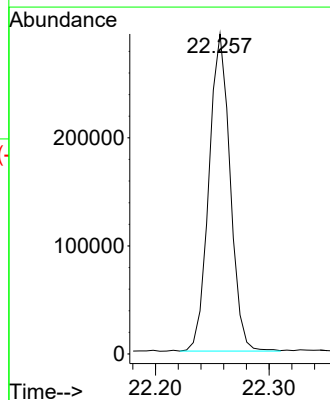
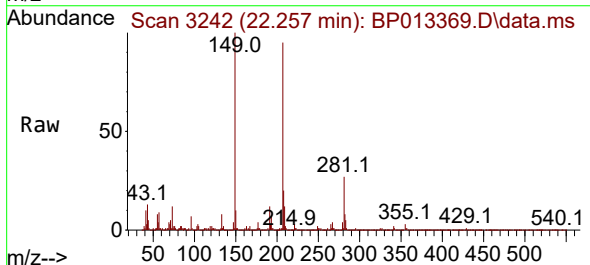
RT: 22.257 min Scan# 3242

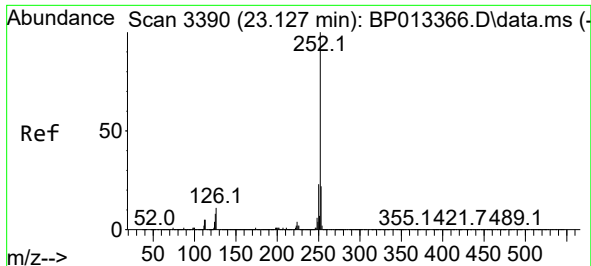
Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Tgt Ion:149 Resp: 379810

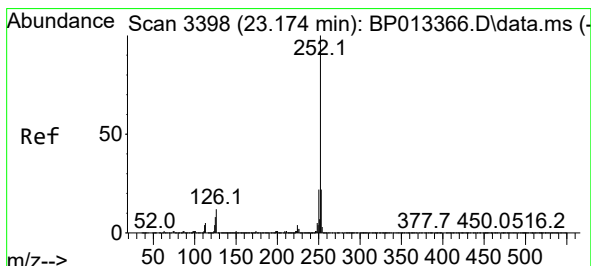
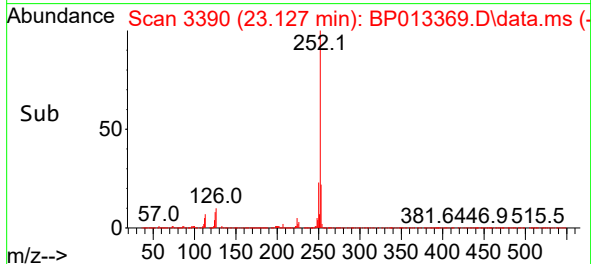
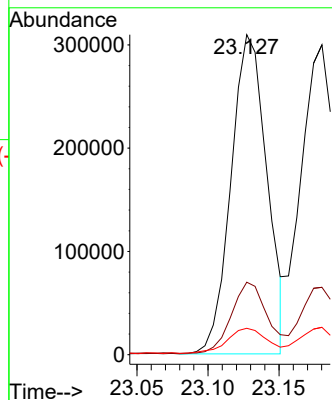
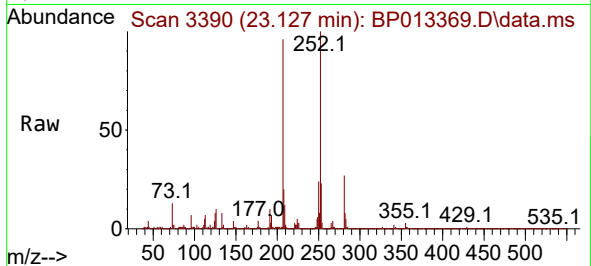




#90
Benzo(b)fluoranthene
Concen: 3.857 ng/ul
RT: 23.127 min Scan# 3390
Delta R.T. -0.012 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

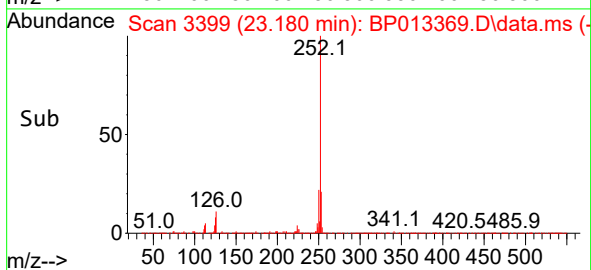
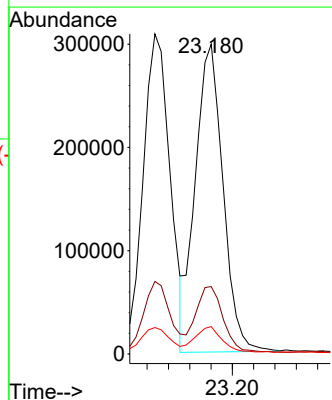
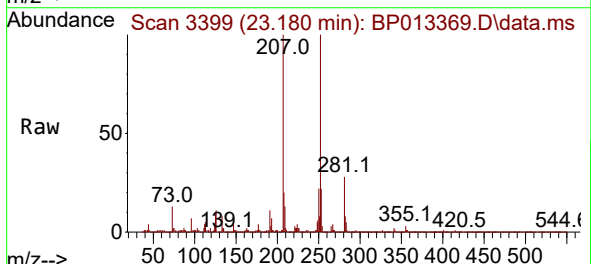
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT4-2022-07

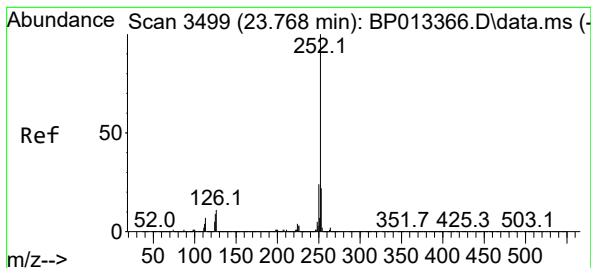
Tgt Ion:252 Resp: 543076
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 8.2 6.8 10.2



#91
Benzo(k)fluoranthene
Concen: 3.865 ng/ul
RT: 23.180 min Scan# 3399
Delta R.T. -0.006 min
Lab File: BP013369.D
Acq: 30 Dec 2022 13:24

Tgt Ion:252 Resp: 539595
Ion Ratio Lower Upper
252 100
253 21.7 17.7 26.5
125 8.8 6.8 10.2





#93

Benzo(a)pyrene

Concen: 3.726 ng/ul

RT: 23.774 min Scan# 3

Delta R.T. -0.006 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT4-2022-07

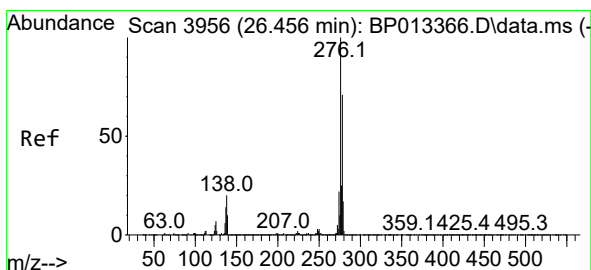
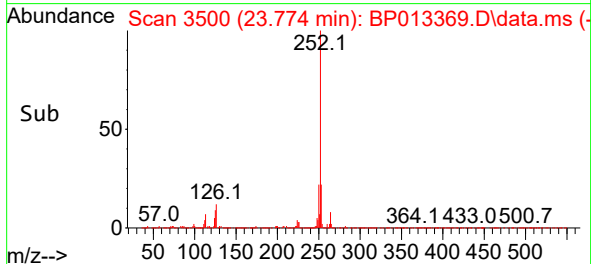
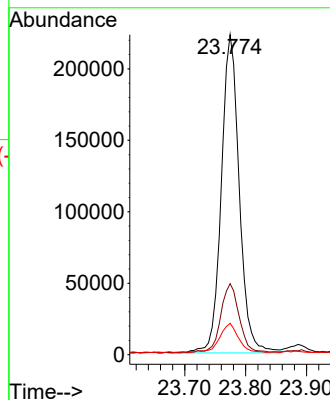
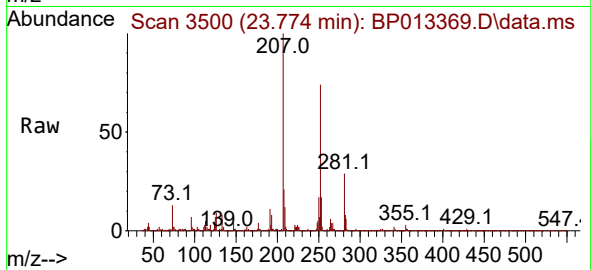
Tgt Ion:252 Resp: 456757

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 9.8 7.5 11.3



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.271 ng/ul

RT: 26.462 min Scan# 3957

Delta R.T. -0.012 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

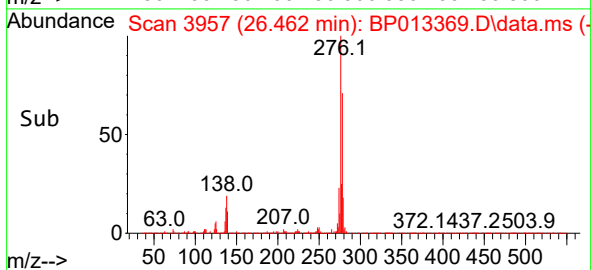
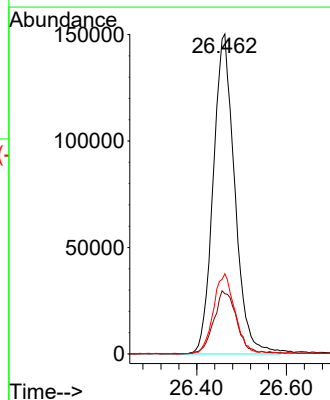
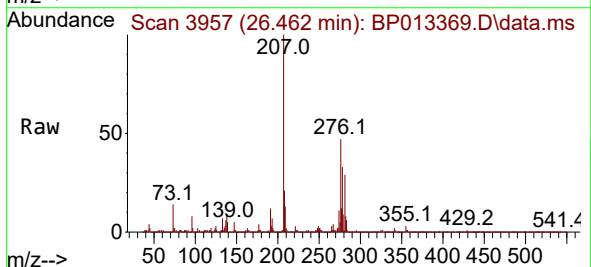
Tgt Ion:276 Resp: 499521

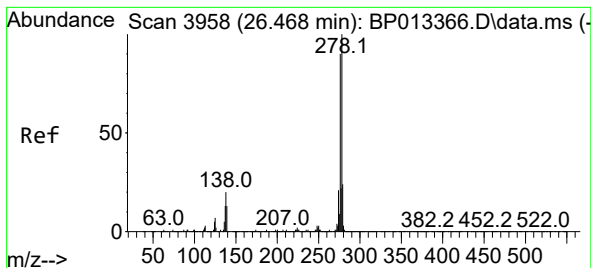
Ion Ratio Lower Upper

276 100

138 18.8 17.1 25.7

277 25.0 20.0 30.0





#95

Dibenzo(a,h)anthracene

Concen: 3.273 ng/ul

RT: 26.474 min Scan# 3959

Delta R.T. -0.018 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Instrument :

BNA_P

ClientSampleId :

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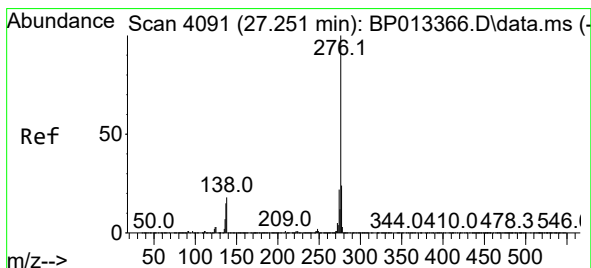
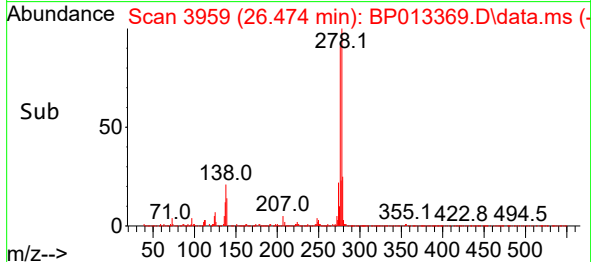
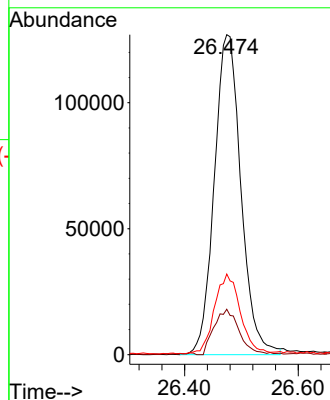
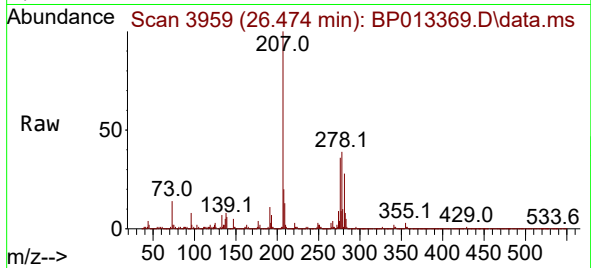
Tgt Ion:278 Resp: 413803

Ion Ratio Lower Upper

278 100

139 14.2 11.1 16.7

279 25.2 19.0 28.6



#96

Benzo(g,h,i)perylene

Concen: 3.360 ng/ul

RT: 27.251 min Scan# 4091

Delta R.T. -0.012 min

Lab File: BP013369.D

Acq: 30 Dec 2022 13:24

Tgt Ion:276 Resp: 411930

Ion Ratio Lower Upper

276 100

138 18.3 15.4 23.2

277 22.4 19.1 28.7

