

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081321\
 Data File : BP006672.D
 Acq On : 13 Aug 2021 13:58
 Operator : CG/JU
 Sample : M2250-03
 Misc : SFAM-MDL-SOIL-01
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT3-2021-05

Quant Time: Aug 13 13:48:06 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SFAM-EPA-BP081021.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Aug 13 10:35:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	139113	20.000	ng/u1	0.00
20) Naphthalene-d8	10.493	136	600825	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.351	164	353204	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.104	188	705529	20.000	ng/u1	0.00
79) Chrysene-d12	21.216	240	708755	20.000	ng/u1	0.00
88) Perylene-d12	23.533	264	740843	20.000	ng/u1	0.00

System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.217	96	20151	4.899	ng/uL	0.00
4) Pyridine-d5	3.622	84	207100	17.516	ng/u1	0.00
7) Phenol-d5	6.887	99	312284	22.330	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	7.052	67	214787	24.991	ng/u1	0.00
11) 2-Chlorophenol-d4	7.240	132	250587	24.059	ng/u1	0.00
15) 4-Methylphenol-d8	8.422	113	241279	21.596	ng/u1	0.00
21) Nitrobenzene-d5	8.863	128	122223	23.965	ng/u1	0.00
24) 2-Nitrophenol-d4	9.581	143	124434	23.317	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.116	165	206854	22.942	ng/u1	0.00
31) 4-Chloroaniline-d4	10.640	131	318810	21.754	ng/u1	0.00
46) Dimethylphthalate-d6	13.769	166	668981	24.698	ng/u1	0.00
49) Acenaphthylene-d8	14.040	160	815103	24.533	ng/u1	0.00
54) 4-Nitrophenol-d4	14.563	143	118096	20.873	ng/u1	0.00
60) Fluorene-d10	15.345	176	546733	24.818	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.475	200	88556	18.989	ng/u1	0.00
73) Anthracene-d10	17.204	188	820122	24.568	ng/u1	0.00
81) Pyrene-d10	19.457	212	884954	23.777	ng/u1	0.00
92) Benzo(a)pyrene-d12	23.386	264	1019682	25.524	ng/u1	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	3.252	88	4798	1.148	ng/uL# 92
5) Pyridine	3.646	79	49087	4.010	ng/uL# 77
6) Benzaldehyde	6.858	77	40164	5.841	ng/u1 97
8) Phenol	6.910	94	57371	4.017	ng/u1 95
10) Bis(2-Chloroethyl)ether	7.146	93	45866	4.166	ng/u1 96
12) 2-Chlorophenol	7.269	128	44869	4.272	ng/u1 99
13) 2-Methylphenol	8.157	108	41013	3.903	ng/u1 99
14) 2,2'-oxybis(1-Chloropr...	8.234	45	54272	4.219	ng/u1 97
16) Acetophenone	8.534	105	74299	4.224	ng/u1 97
17) N-Nitroso-di-n-propyla...	8.522	70	38808	4.102	ng/u1 96
18) 4-Methylphenol	8.487	108	43269	3.787	ng/u1 95
19) Hexachloroethane	8.775	117	20877	4.568	ng/u1 99
22) Nitrobenzene	8.904	77	58556	4.385	ng/u1 99
23) Isophorone	9.434	82	102866	4.131	ng/u1 99
25) 2-Nitrophenol	9.616	139	22860	4.061	ng/u1 97
26) 2,4-Dimethylphenol	9.681	107	50089	4.142	ng/u1 99
27) Bis(2-Chloroethoxy)met...	9.922	93	61614	4.269	ng/u1 97
29) 2,4-Dichlorophenol	10.140	162	37105	4.242	ng/u1 88
30) Naphthalene	10.540	128	141033	4.325	ng/u1 99
32) 4-Chloroaniline	10.663	127	59747	4.155	ng/u1 98
33) Hexachlorobutadiene	10.822	225	23091	4.477	ng/u1 97
34) Caprolactam	11.469	113	11945	3.411	ng/u1 94
35) 4-Chloro-3-methylphenol	11.793	107	42910	3.835	ng/u1 98
36) 2-Methylnaphthalene	12.157	142	94575	4.221	ng/u1 96

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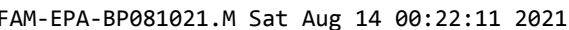
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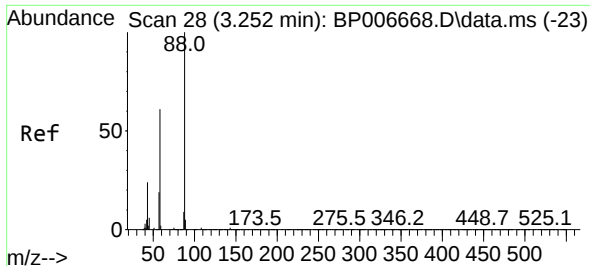
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.381	142	94076	4.219	ng/ul	100
39) 1,2,4,5-Tetrachloroben...	12.528	216	42063	4.419	ng/ul	98
40) Hexachlorocyclopentadiene	12.504	237	21906	3.508	ng/ul	91
41) 2,4,6-Trichlorophenol	12.775	196	26222	4.011	ng/ul	98
42) 2,4,5-Trichlorophenol	12.845	196	26769	3.846	ng/ul	98
43) 1,1'-Biphenyl	13.181	154	117383	4.275	ng/ul	98
44) 2-Chloronaphthalene	13.216	162	88561	4.251	ng/ul	99
45) 2-Nitroaniline	13.434	65	25374	3.378	ng/ul	96
47) Dimethylphthalate	13.816	163	117051	4.369	ng/ul	98
48) 2,6-Dinitrotoluene	13.940	165	16752	3.240	ng/ul	98
50) Acenaphthylene	14.069	152	143687	4.424	ng/ul	99
51) 3-Nitroaniline	14.269	138	19964	3.371	ng/ul#	98
52) Acenaphthene	14.410	153	98850	4.268	ng/ul	97
53) 2,4-Dinitrophenol	14.475	184	11183	3.344	ng/ul	98
55) 4-Nitrophenol	14.575	109	21090	4.157	ng/ul	88
56) Dibenzofuran	14.751	168	132779	4.288	ng/ul	98
57) 2,4-Dinitrotoluene	14.728	165	26579	3.494	ng/ul#	92
58) 2,3,4,6-Tetrachlorophenol	14.981	232	22294	3.859	ng/ul	91
59) Diethylphthalate	15.187	149	121487	4.266	ng/ul	98
61) Fluorene	15.404	166	111610	4.323	ng/ul	97
62) 4-Chlorophenyl-phenyle...	15.404	204	50400	4.312	ng/ul	97
63) 4-Nitroaniline	15.428	138	20972	3.782	ng/ul	86
66) 4,6-Dinitro-2-methylph...	15.486	198	16677	3.577	ng/ul#	76
67) N-Nitrosodiphenylamine	15.622	169	94709	4.370	ng/ul	99
68) 4-Bromophenyl-phenylether	16.298	248	28505	4.097	ng/ul	97
69) Hexachlorobenzene	16.404	284	34153	4.343	ng/ul	97
70) Atrazine	16.581	200	27773	3.613	ng/ul	98
71) Pentachlorophenol	16.757	266	17570	3.411	ng/ul	93
72) Phenanthrene	17.145	178	172218	4.321	ng/ul	99
74) Anthracene	17.239	178	175868	4.345	ng/ul	99
75) 1,2,3,4-Tetrachloroben...	13.140	216	40299	4.201	ng/ul	98
76) Pentachlorobenzene	14.669	250	38958	4.121	ng/ul	97
77) Carbazole	17.516	167	157878	4.176	ng/ul	99
78) Di-n-butylphthalate	18.086	149	187086	3.828	ng/ul	99
80) Fluoranthene	19.127	202	184997	3.955	ng/ul	100
82) Pyrene	19.480	202	204782	4.238	ng/ul	98
83) Butylbenzylphthalate	20.374	149	84038	3.518	ng/ul	95
84) 3,3'-Dichlorobenzidine	21.139	252	53804	3.327	ng/ul	99
85) Benzo(a)anthracene	21.198	228	196606	4.259	ng/ul	100
86) Bis(2-ethylhexyl)phtha...	21.145	149	138805	3.771	ng/ul	97
87) Chrysene	21.251	228	190799	4.287	ng/ul	98
89) Di-n-octyl phthalate	22.045	149	233612	3.648	ng/ul	100
90) Benzo(b)fluoranthene	22.827	252	203646	4.232	ng/ul	98
91) Benzo(k)fluoranthene	22.874	252	199361	4.279	ng/ul	99
93) Benzo(a)pyrene	23.433	252	180470	4.140	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	25.915	276	236130	4.142	ng/ul	99
95) Dibenzo(a,h)anthracene	25.939	278	200670	4.191	ng/ul	99
96) Benzo(g,h,i)perylene	26.651	276	198356	4.191	ng/ul	98

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

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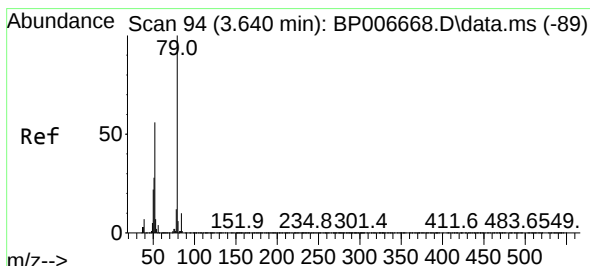
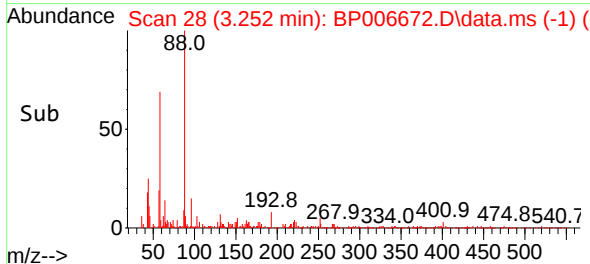
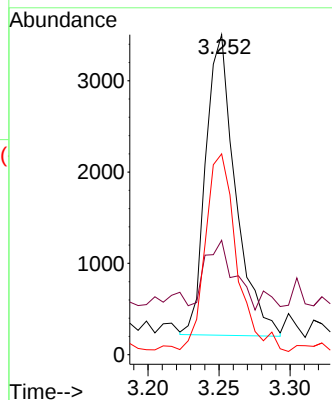
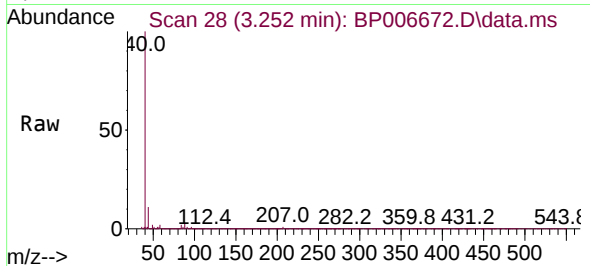




#2
1,4-Dioxane
Concen: 1.148 ng/uL
RT: 3.252 min Scan# 28
Delta R.T. -0.000 min
Lab File: BP006672.D
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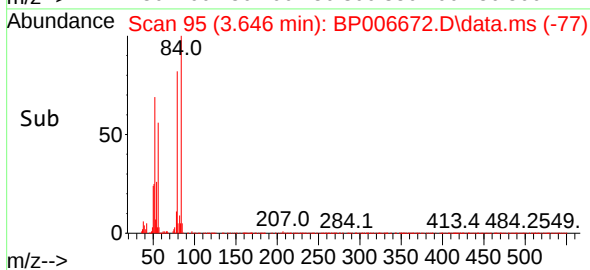
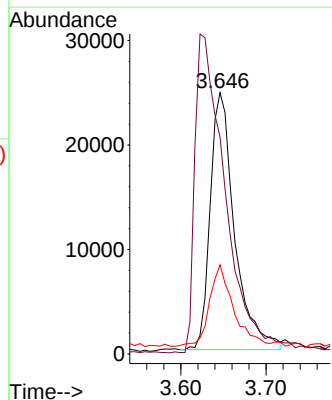
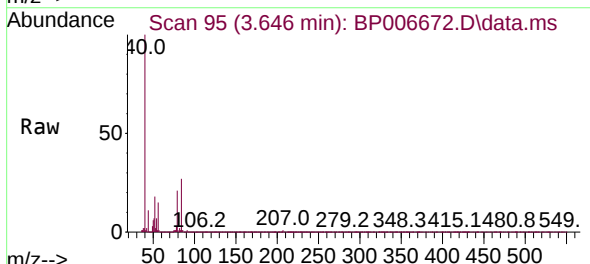
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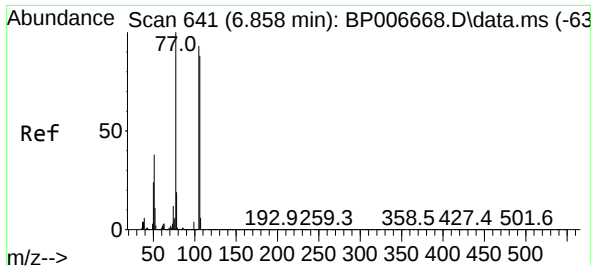
Tgt Ion: 88 Resp: 4798
Ion Ratio Lower Upper
88 100
43 35.8 20.1 30.1#
58 62.8 48.4 72.6



#5
Pyridine
Concen: 4.010 ng/uL
RT: 3.646 min Scan# 95
Delta R.T. 0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion: 79 Resp: 49087
Ion Ratio Lower Upper
79 100
52 83.0 49.2 73.8#
51 34.1 22.7 34.1#

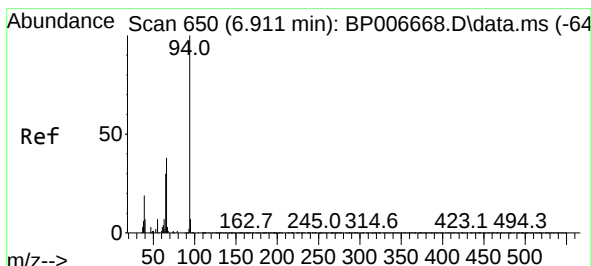
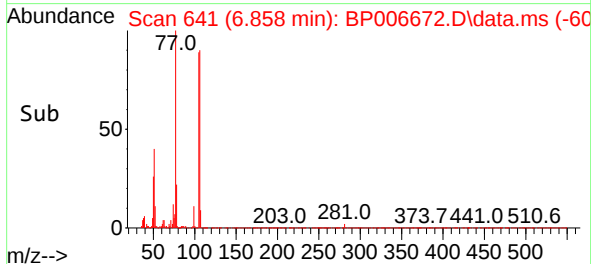
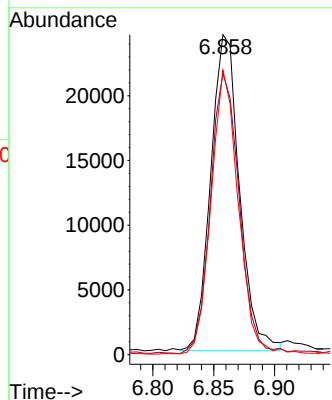
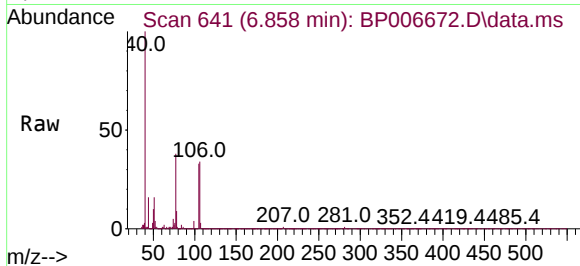




#6
Benzaldehyde
Concen: 5.841 ng/ul
RT: 6.858 min Scan# 641
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

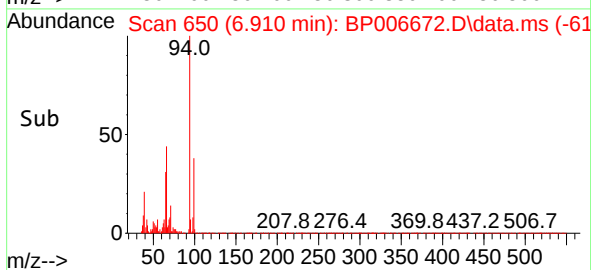
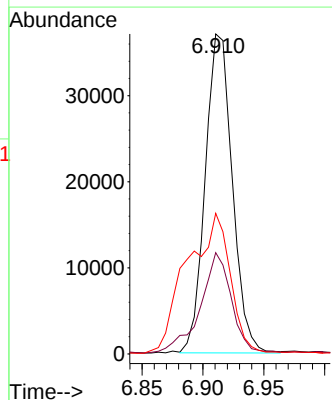
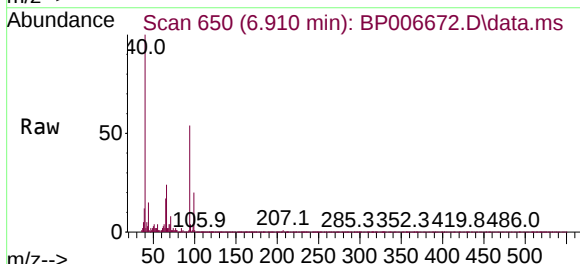
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

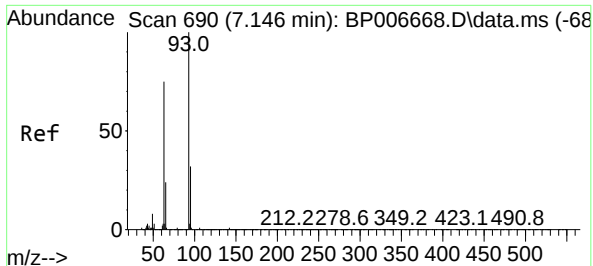
Tgt Ion: 77 Resp: 40164
Ion Ratio Lower Upper
77 100
105 87.9 74.4 111.6
106 88.9 70.3 105.5



#8
Phenol
Concen: 4.017 ng/ul
RT: 6.910 min Scan# 650
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion: 94 Resp: 57371
Ion Ratio Lower Upper
94 100
65 31.6 24.4 36.6
66 44.0 31.8 47.6





#10

Bis(2-Chloroethyl)ether

Concen: 4.166 ng/ul

RT: 7.146 min Scan# 690

Delta R.T. -0.000 min

Lab File: BP006672.D

Acq: 13 Aug 2021 13:58

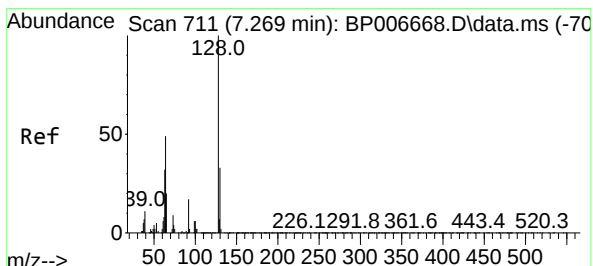
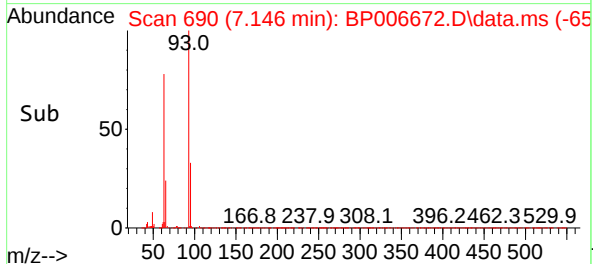
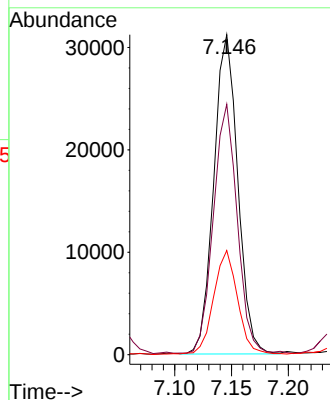
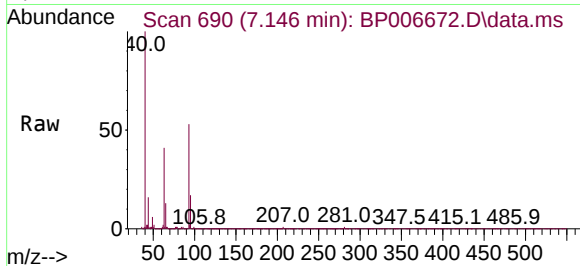
Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT3-2021-05

Tgt Ion: 93	Resp: 45866
Ion Ratio	Lower Upper
93 100	
63 78.3	59.7 89.5
95 32.5	25.3 37.9



#12

2-Chlorophenol

Concen: 4.272 ng/ul

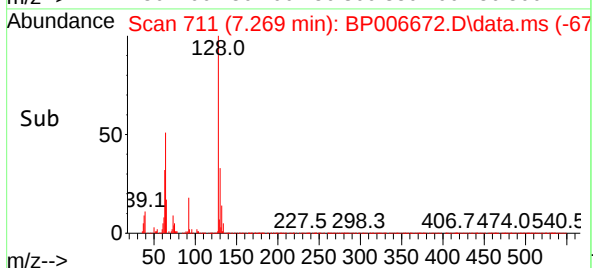
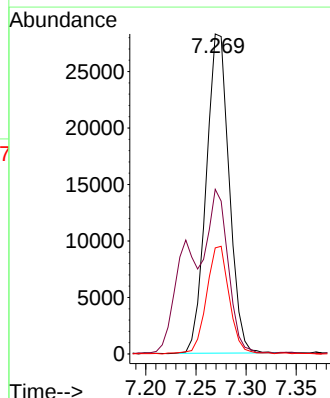
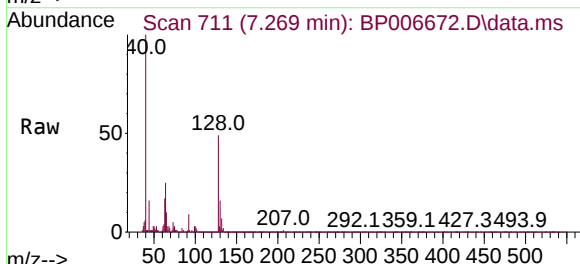
RT: 7.269 min Scan# 711

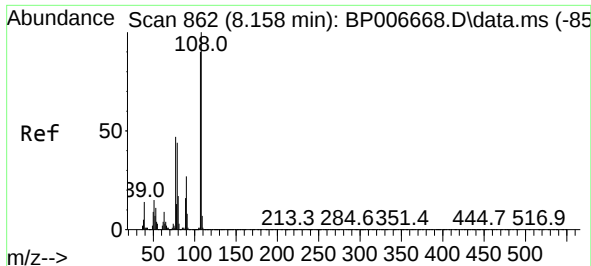
Delta R.T. -0.000 min

Lab File: BP006672.D

Acq: 13 Aug 2021 13:58

Tgt Ion: 128	Resp: 44869
Ion Ratio	Lower Upper
128 100	
64 51.4	40.6 60.8
130 33.1	26.4 39.6

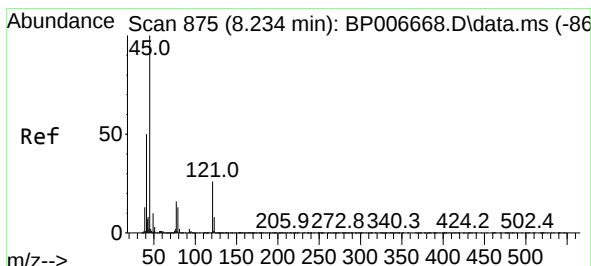
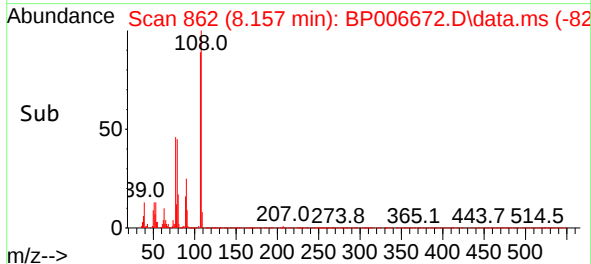
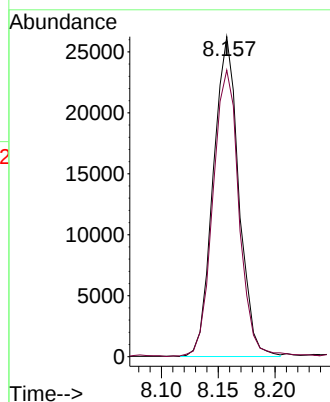
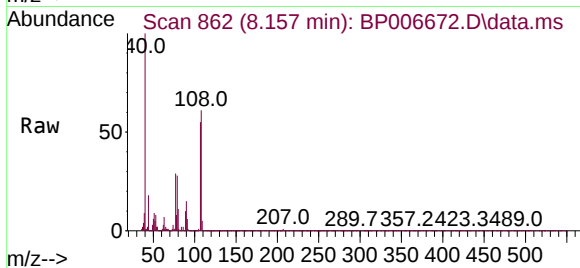




#13
2-Methylphenol
Concen: 3.903 ng/ul
RT: 8.157 min Scan# 862
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

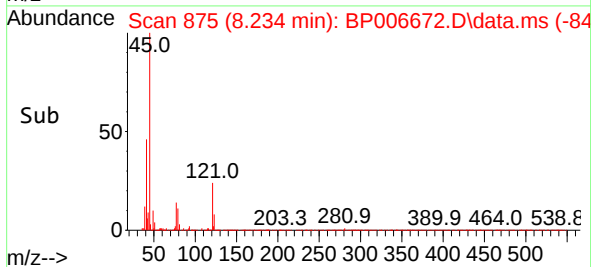
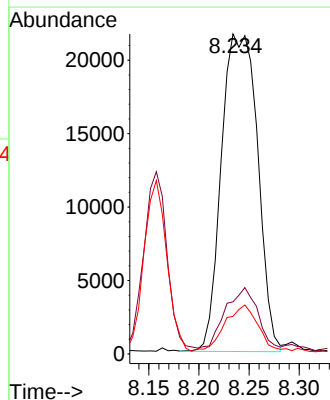
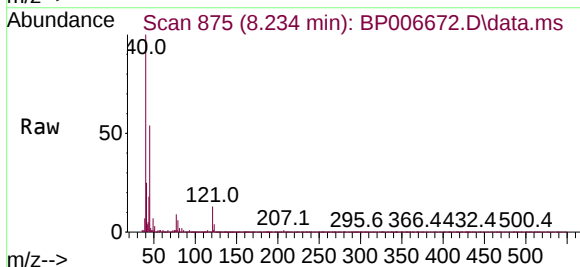
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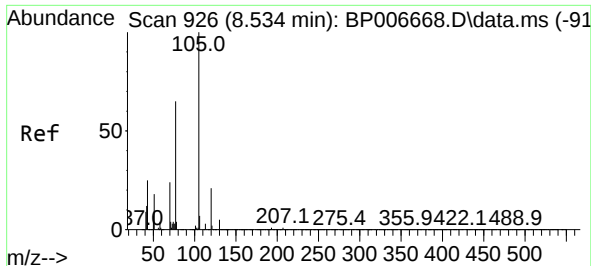
Tgt Ion:108 Resp: 41013
Ion Ratio Lower Upper
108 100
107 89.6 72.2 108.2



#14
2,2'-oxybis(1-Chloropropane)
Concen: 4.219 ng/ul
RT: 8.234 min Scan# 875
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion: 45 Resp: 54272
Ion Ratio Lower Upper
45 100
77 16.3 13.8 20.8
79 11.7 10.9 16.3

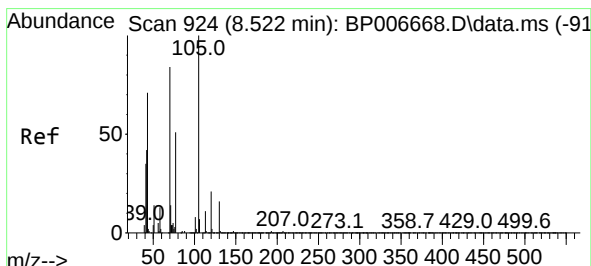
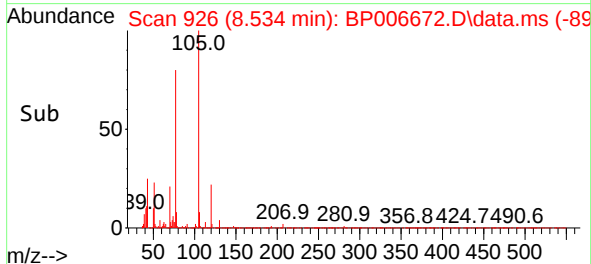
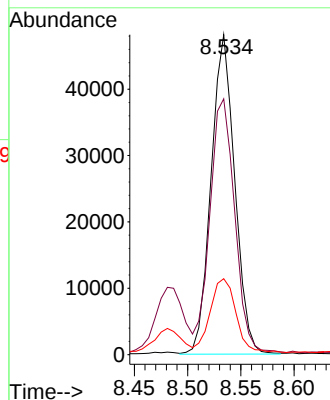
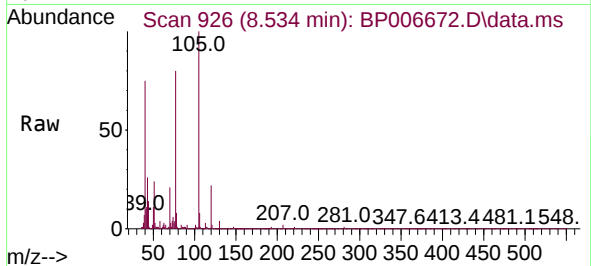




#16
Acetophenone
Concen: 4.224 ng/ul
RT: 8.534 min Scan# 926
Delta R.T. -0.000 min
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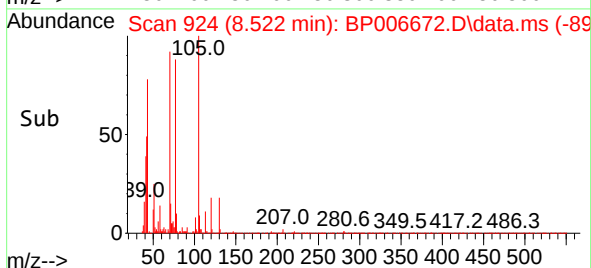
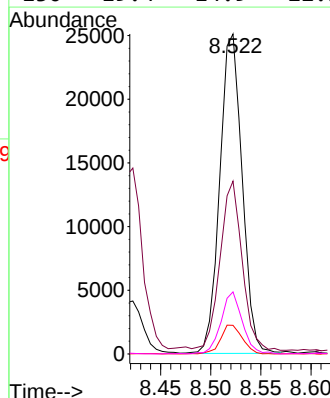
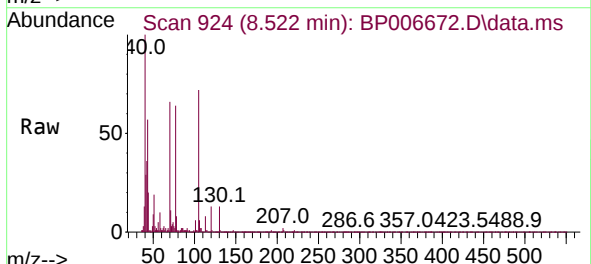
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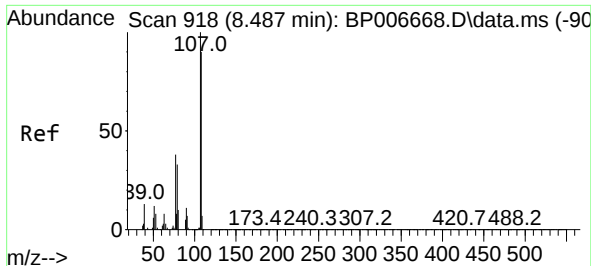
Tgt Ion:	105	Resp:	74299
Ion Ratio	Lower	Upper	
105	100		
77	80.0	67.0	100.4
51	23.7	19.0	28.6



#17
N-Nitroso-di-n-propylamine
Concen: 4.102 ng/ul
RT: 8.522 min Scan# 924
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	70	Resp:	38808
Ion Ratio	Lower	Upper	
70	100		
42	54.0	40.4	60.6
101	8.9	7.2	10.8
130	19.4	14.9	22.3

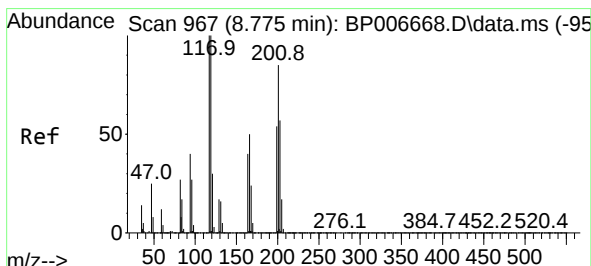
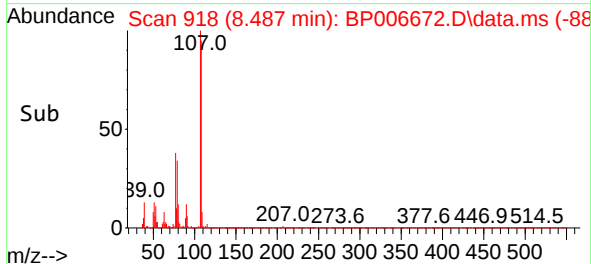
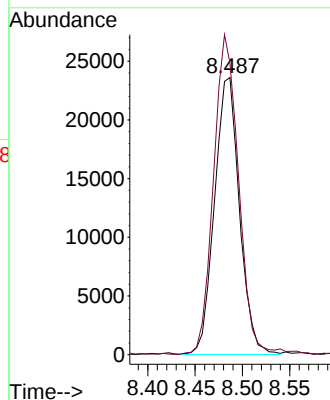
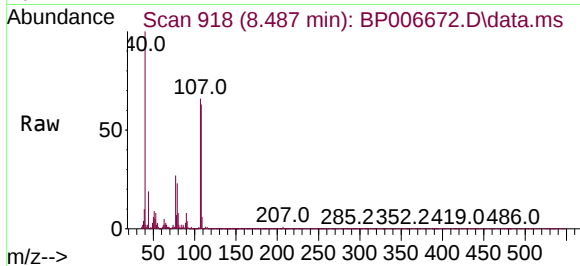




#18
4-Methylphenol
Concen: 3.787 ng/ul
RT: 8.487 min Scan# 918
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

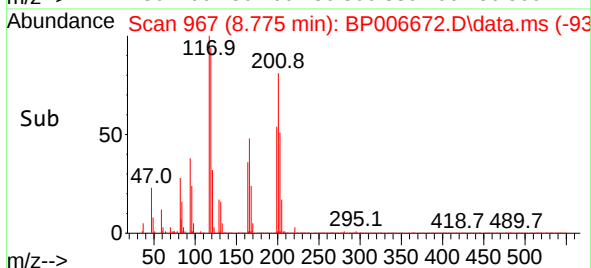
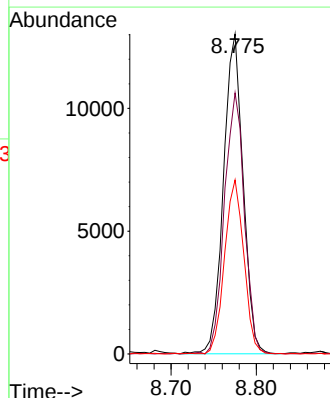
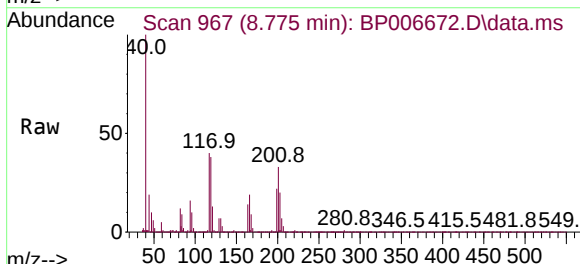
Instrument :
BNA_P
ClientSampleId :
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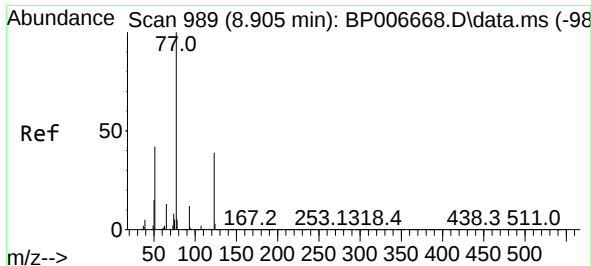
Tgt Ion:108 Resp: 43269
Ion Ratio Lower Upper
108 100
107 105.1 88.6 133.0



#19
Hexachloroethane
Concen: 4.568 ng/ul
RT: 8.775 min Scan# 967
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:117 Resp: 20877
Ion Ratio Lower Upper
117 100
201 83.1 68.2 102.2
199 54.4 43.5 65.3

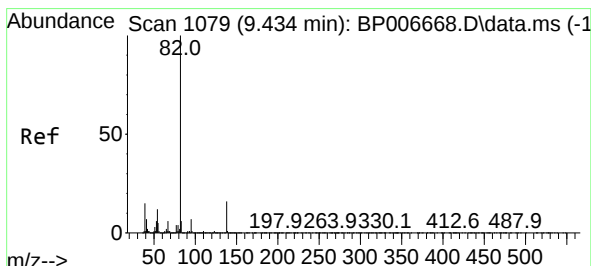
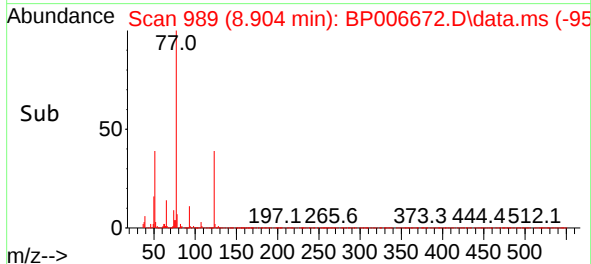
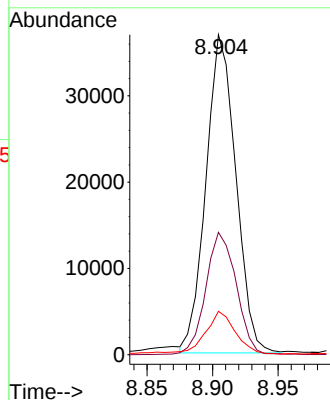
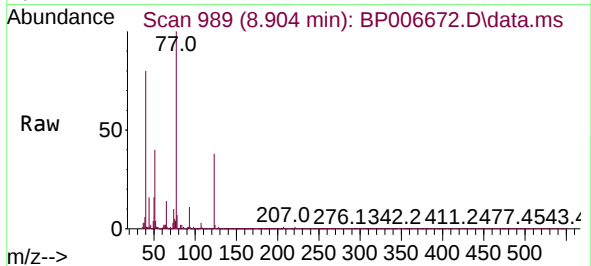




#22
Nitrobenzene
Concen: 4.385 ng/ul
RT: 8.904 min Scan# 989
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

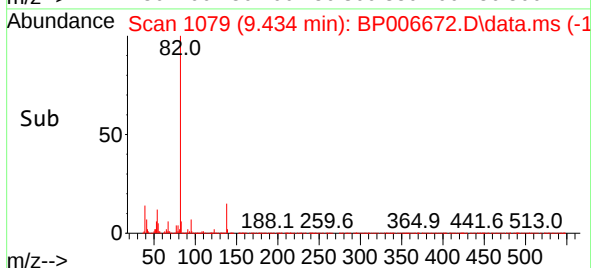
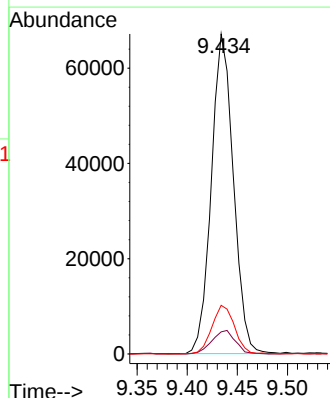
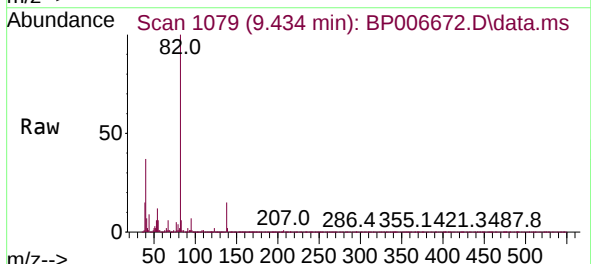
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

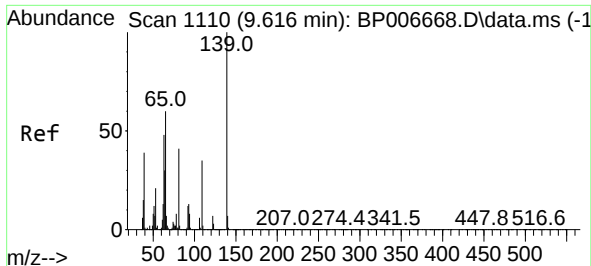
Tgt Ion:	77	Resp:	58556
Ion Ratio	Lower	Upper	
77	100		
123	38.3	31.1	46.7
65	13.6	10.6	16.0



#23
Isophorone
Concen: 4.131 ng/ul
RT: 9.434 min Scan# 1079
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	82	Resp:	102866
Ion Ratio	Lower	Upper	
82	100		
95	6.9	5.8	8.8
138	15.2	12.5	18.7

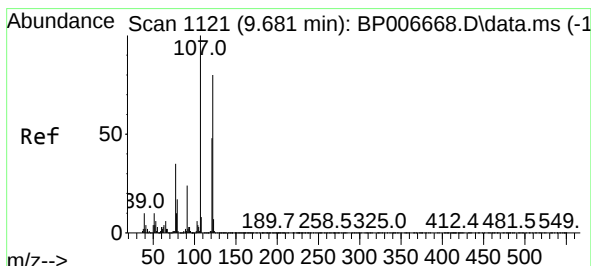
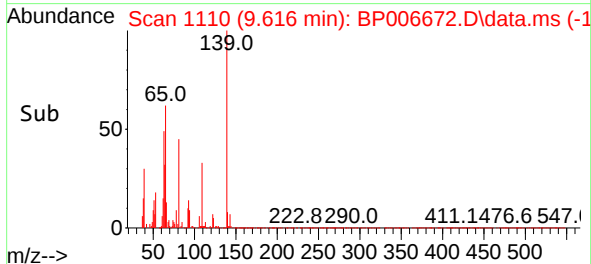
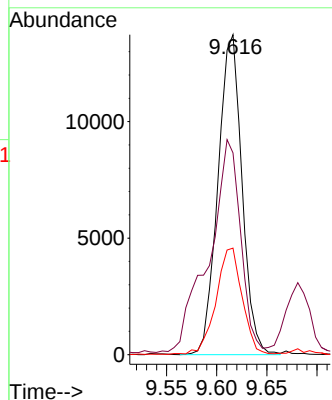
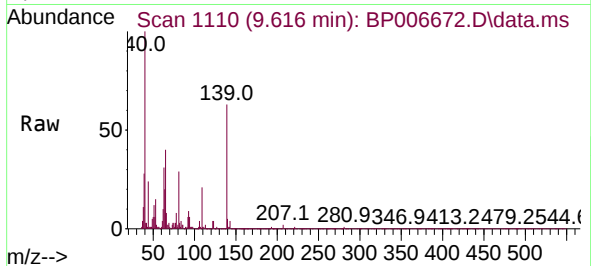




#25
2-Nitrophenol
Concen: 4.061 ng/ul
RT: 9.616 min Scan# 1110
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

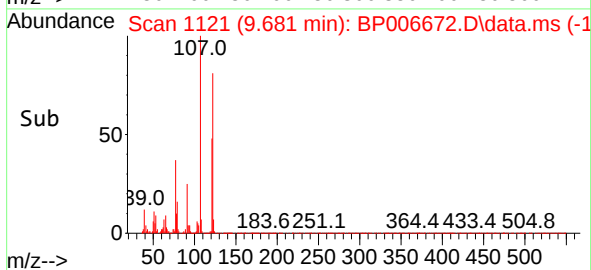
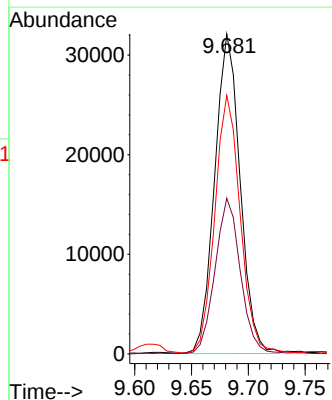
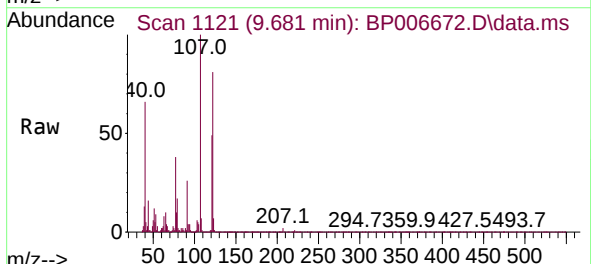
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

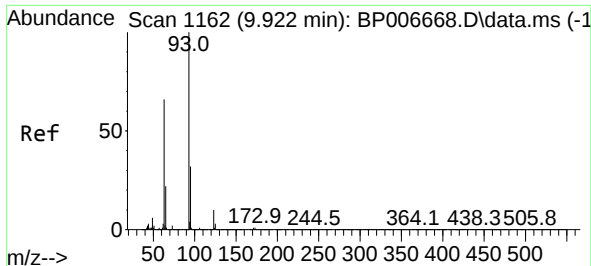
Tgt Ion:	139	Resp:	22860
Ion Ratio	Lower	Upper	
139	100		
65	63.1	48.4	72.6
109	33.3	28.2	42.2



#26
2,4-Dimethylphenol
Concen: 4.142 ng/ul
RT: 9.681 min Scan# 1121
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	107	Resp:	50089
Ion Ratio	Lower	Upper	
107	100		
121	48.6	38.1	57.1
122	80.8	64.2	96.4



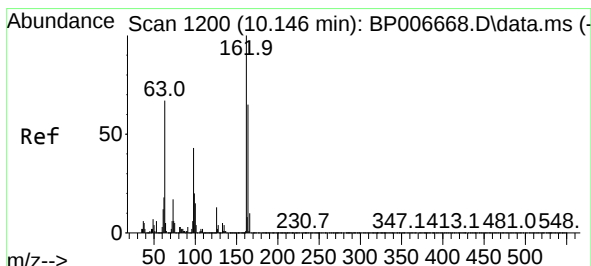
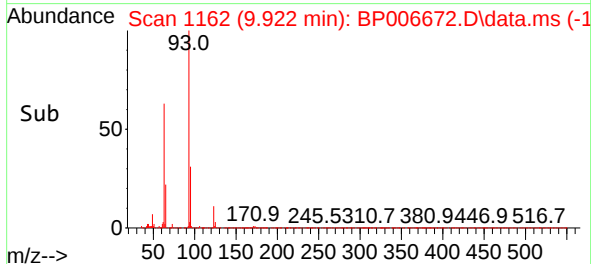
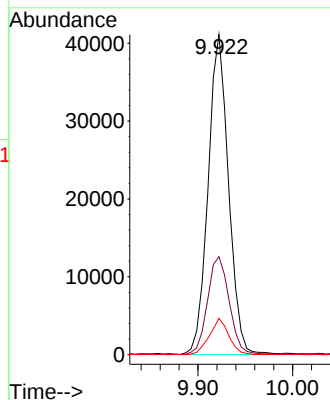
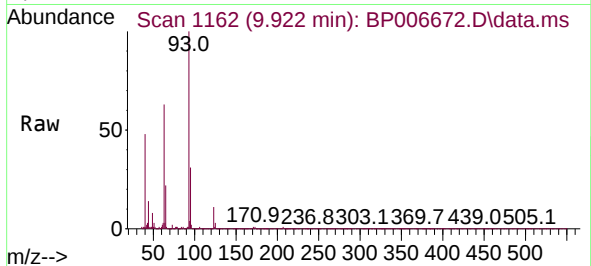


#27

Bis(2-Chloroethoxy)methane
Concen: 4.269 ng/ul
RT: 9.922 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

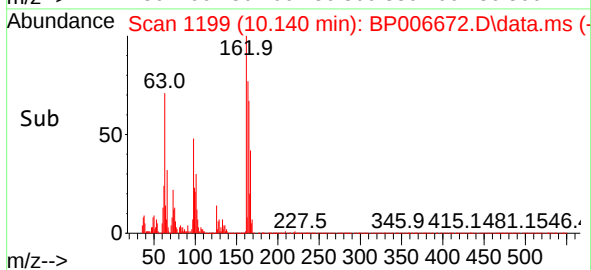
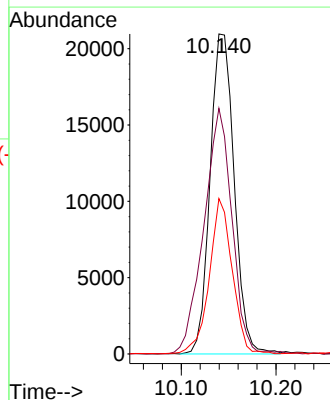
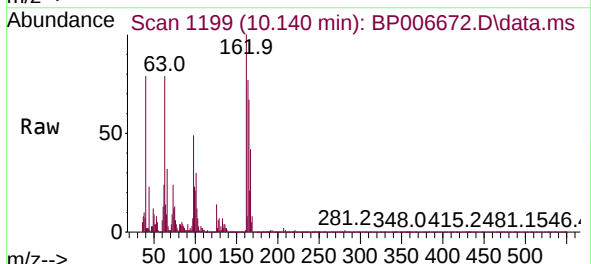
Tgt Ion: 93	Resp: 61614
Ion Ratio	Lower Upper
93 100	
95 30.7	25.6 38.4
123 11.3	8.2 12.4

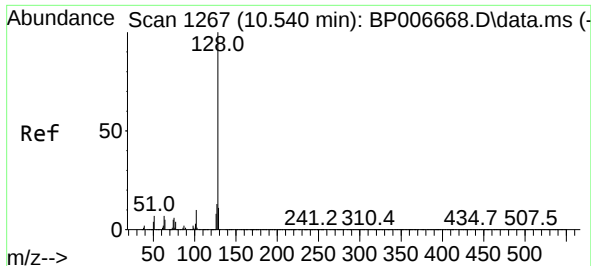


#29

2,4-Dichlorophenol
Concen: 4.242 ng/ul
RT: 10.140 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion: 162	Resp: 37105
Ion Ratio	Lower Upper
162 100	
164 76.8	52.0 78.0
98 48.5	34.3 51.5

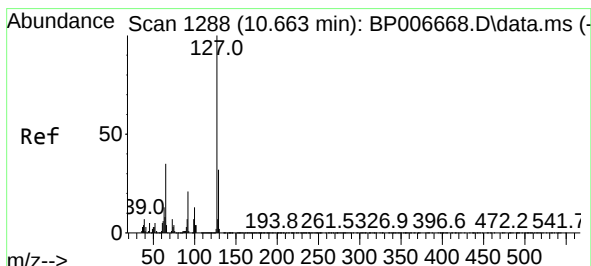
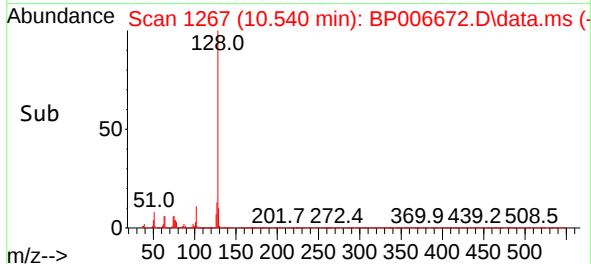
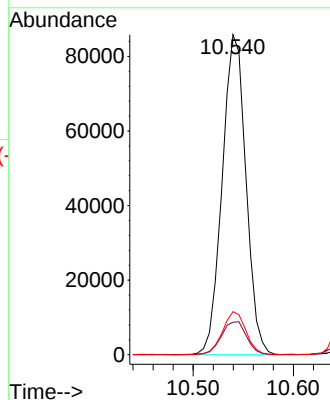
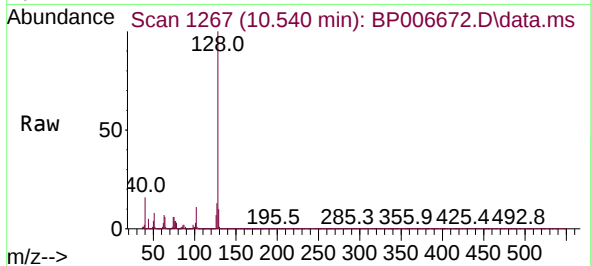




#30
Naphthalene
Concen: 4.325 ng/ul
RT: 10.540 min Scan# 1267
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

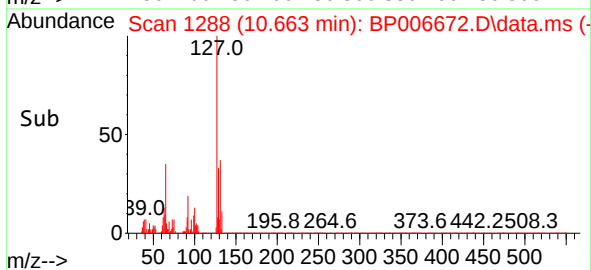
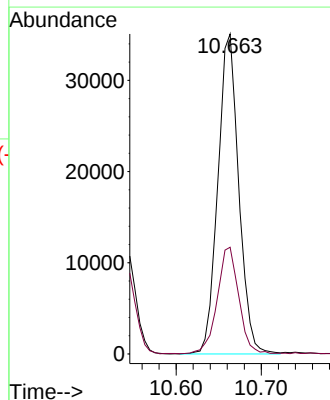
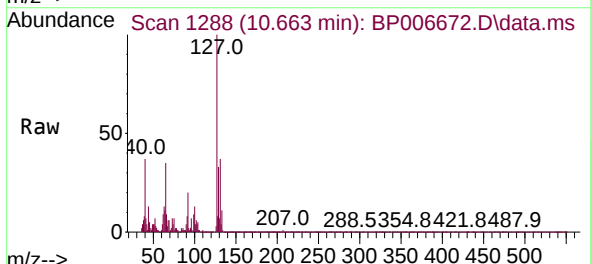
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

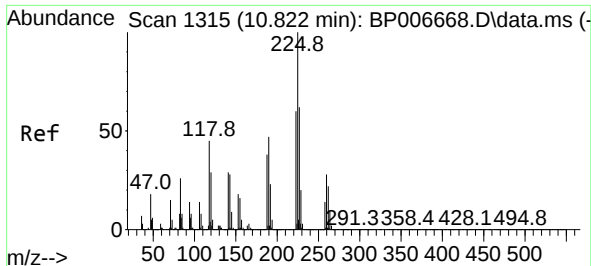
Tgt Ion:	128	Resp:	141033
Ion Ratio	Lower	Upper	
128	100		
129	10.1	8.8	13.2
127	13.5	10.6	15.8



#32
4-Chloroaniline
Concen: 4.155 ng/ul
RT: 10.663 min Scan# 1288
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	127	Resp:	59747
Ion Ratio	Lower	Upper	
127	100		
129	33.4	25.7	38.5

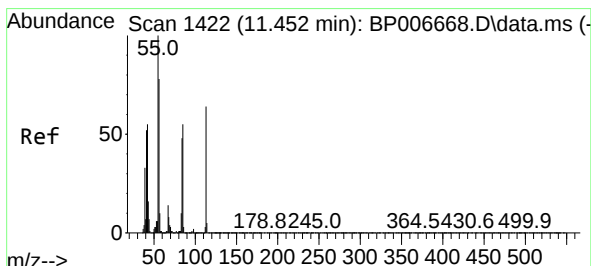
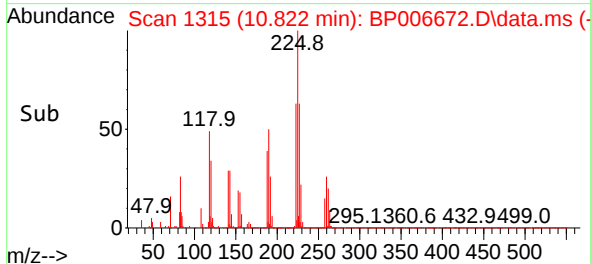
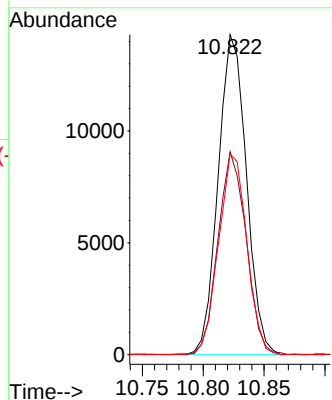
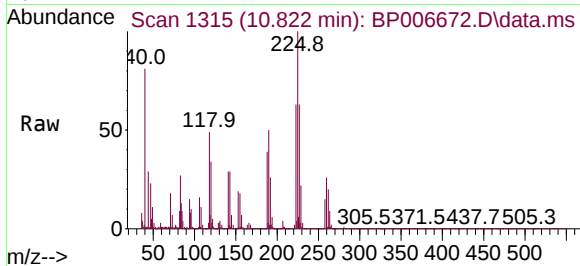




#33
Hexachlorobutadiene
Concen: 4.477 ng/ul
RT: 10.822 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

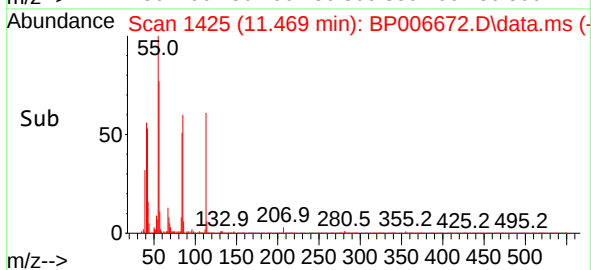
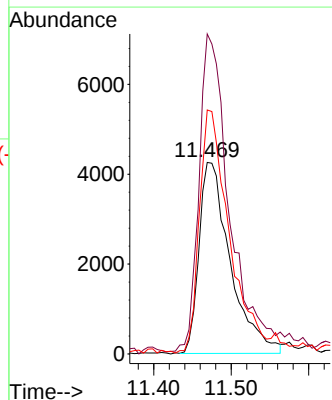
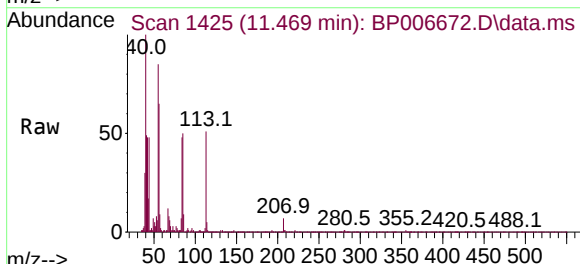
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

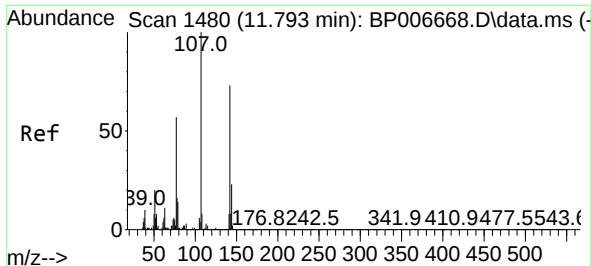
Tgt Ion:	225	Resp:	23091
Ion Ratio	Lower	Upper	
225	100		
223	63.4	48.2	72.2
227	62.7	49.6	74.4



#34
Caprolactam
Concen: 3.411 ng/ul
RT: 11.469 min Scan# 1425
Delta R.T. 0.018 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	113	Resp:	11945
Ion Ratio	Lower	Upper	
113	100		
55	167.0	125.8	188.6
56	127.4	98.2	147.2

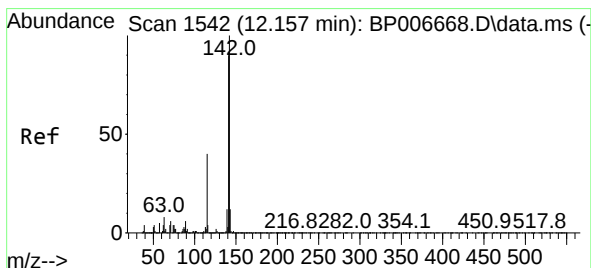
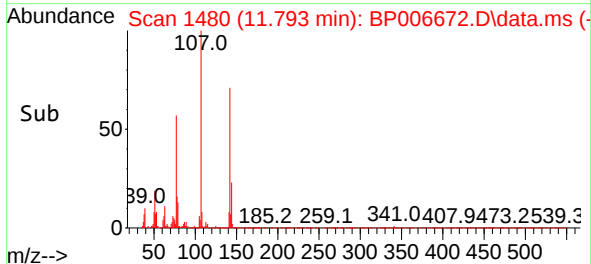
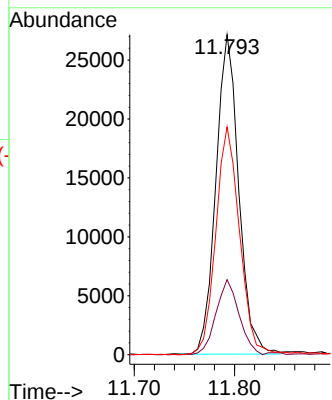
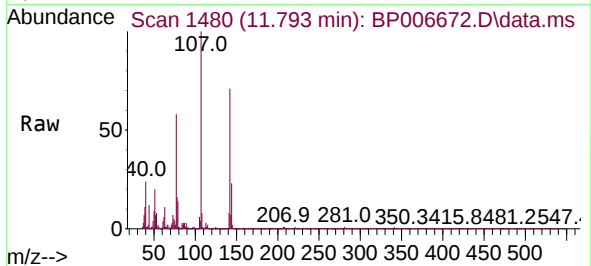




#35
4-Chloro-3-methylphenol
Concen: 3.835 ng/ul
RT: 11.793 min Scan# 1480
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

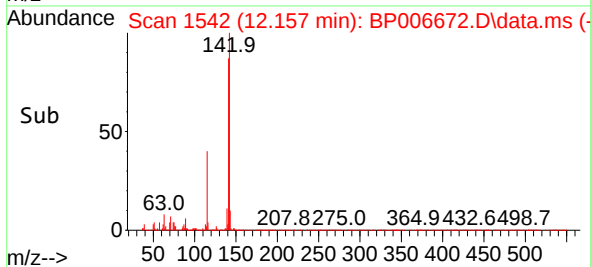
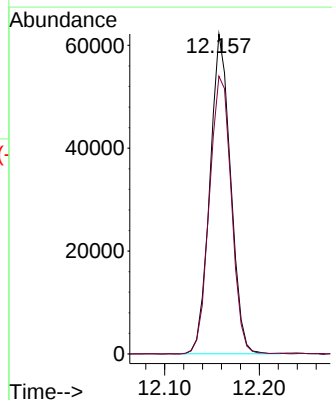
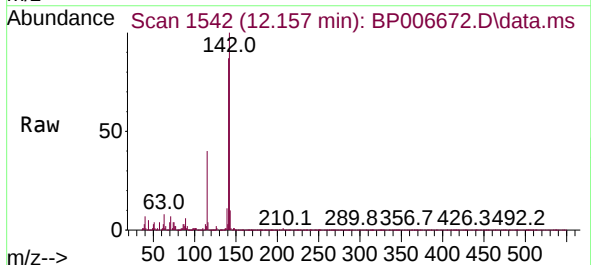
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

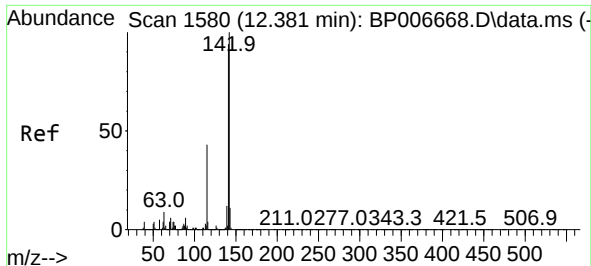
Tgt Ion:	107	Resp:	42910
Ion Ratio	Lower	Upper	
107	100		
144	23.5	18.8	28.2
142	71.2	58.4	87.6



#36
2-Methylnaphthalene
Concen: 4.221 ng/ul
RT: 12.157 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	142	Resp:	94575
Ion Ratio	Lower	Upper	
142	100		
141	86.8	72.3	108.5

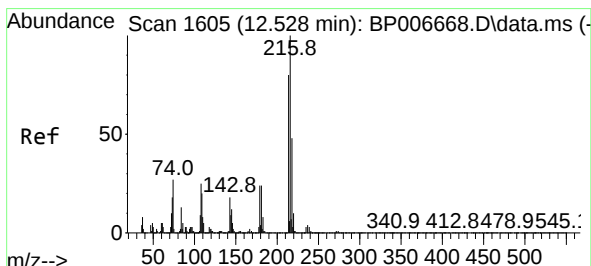
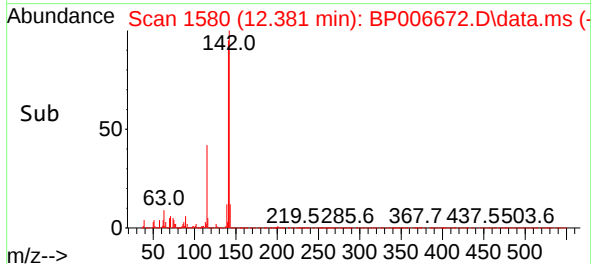
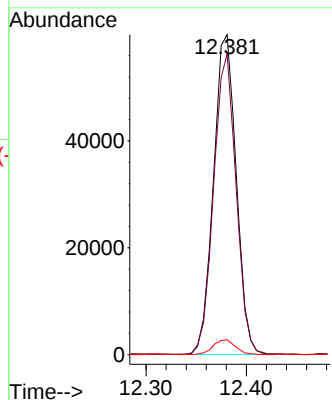
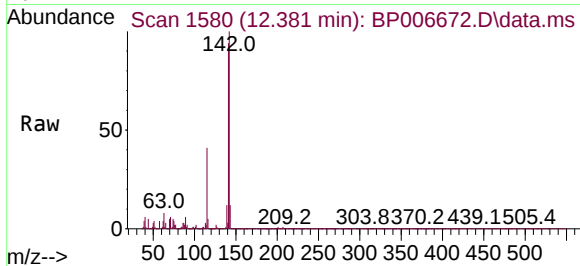




#37
1-Methylnaphthalene
Concen: 4.219 ng/ul
RT: 12.381 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

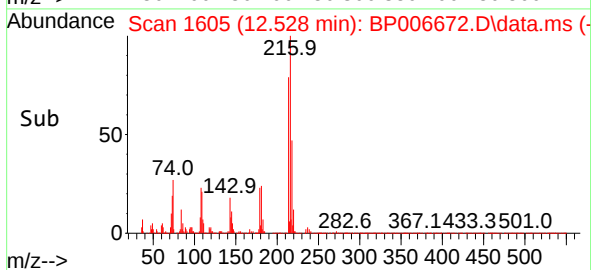
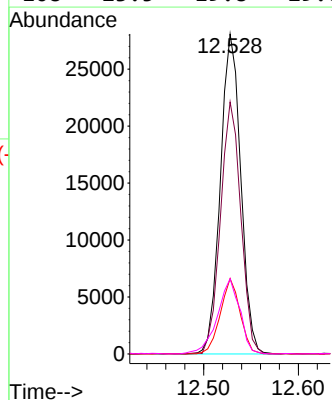
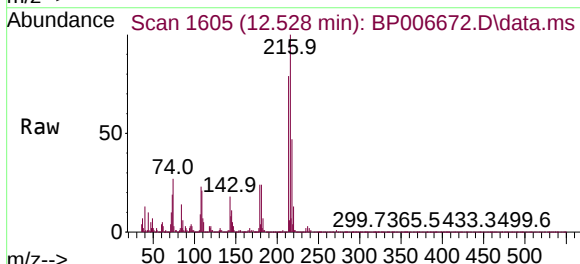
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

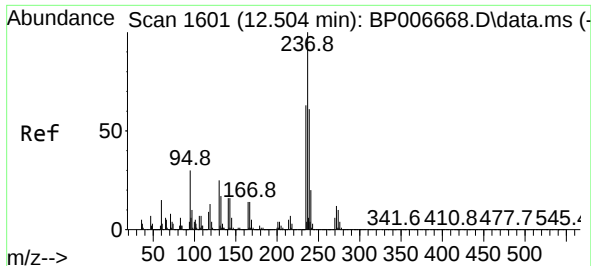
Tgt Ion:	142	Resp:	94076
Ion Ratio	Lower	Upper	
142	100		
141	93.9	74.9	112.3
116	4.7	3.3	4.9



#39
1,2,4,5-Tetrachlorobenzene
Concen: 4.419 ng/ul
RT: 12.528 min Scan# 1605
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	216	Resp:	42063
Ion Ratio	Lower	Upper	
216	100		
214	78.8	64.3	96.5
179	23.5	19.3	28.9
108	23.5	19.8	29.6

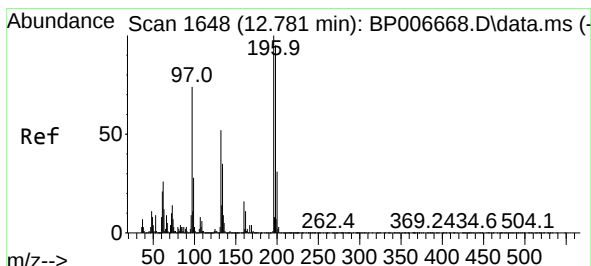
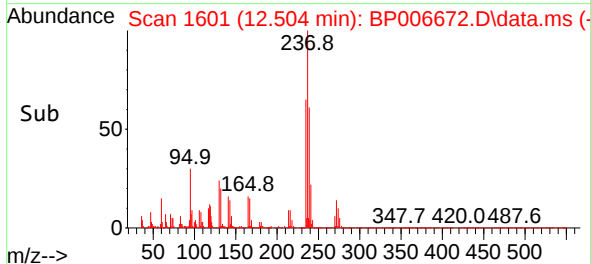
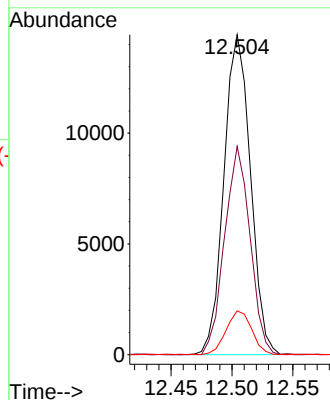
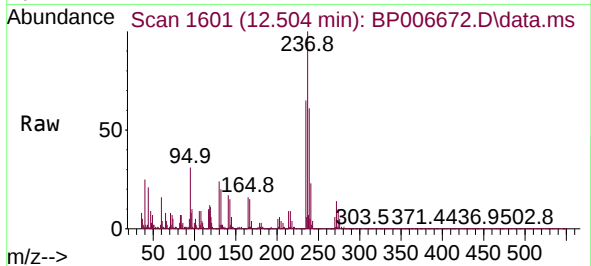




#40
Hexachlorocyclopentadiene
Concen: 3.508 ng/ul
RT: 12.504 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

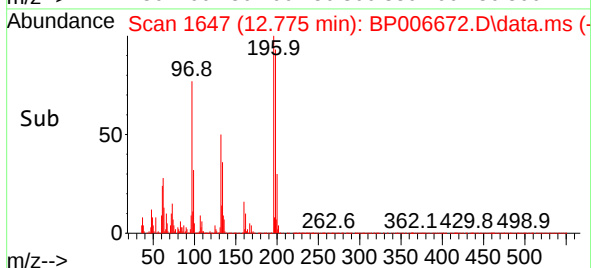
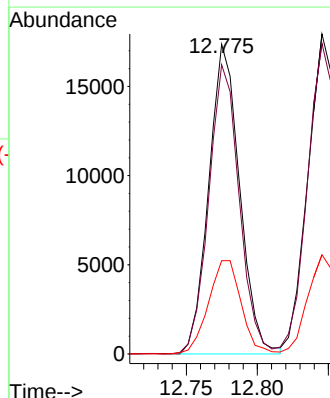
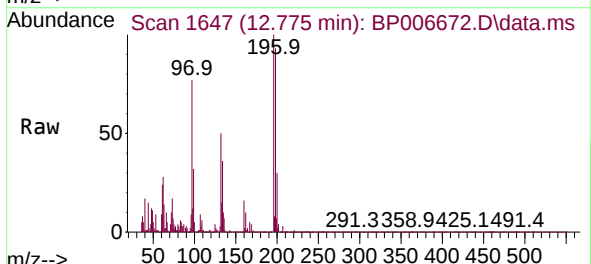
Instrument :
BNA_P
ClientSampleId :
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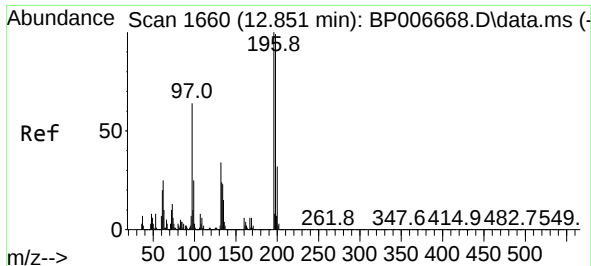
Tgt Ion:	237	Resp:	21906
Ion Ratio	Lower	Upper	
237	100		
235	70.7	50.4	75.6
272	14.3	9.7	14.5



#41
2,4,6-Trichlorophenol
Concen: 4.011 ng/ul
RT: 12.775 min Scan# 1647
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	196	Resp:	26222
Ion Ratio	Lower	Upper	
196	100		
198	93.4	76.2	114.4
200	30.1	24.6	36.8

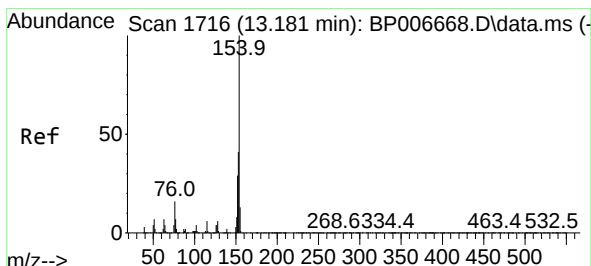
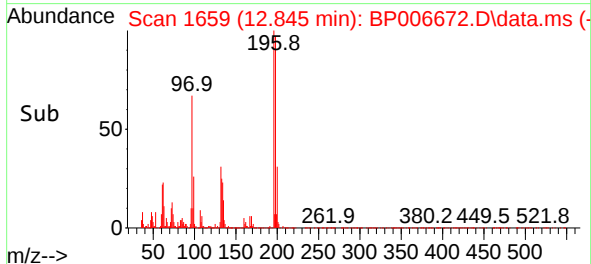
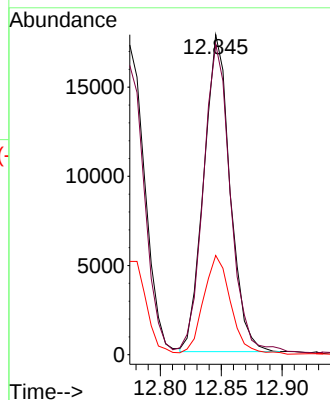
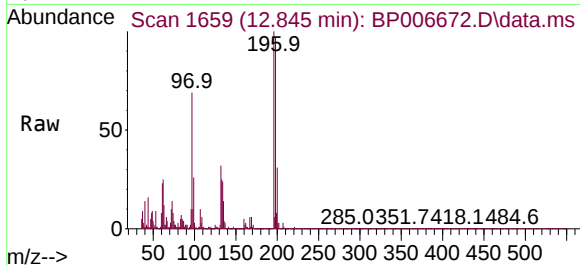




#42
2,4,5-Trichlorophenol
Concen: 3.846 ng/ul
RT: 12.845 min Scan# 1659
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

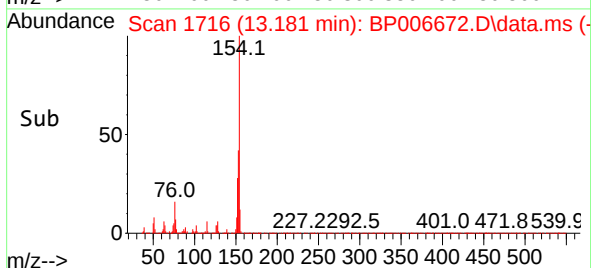
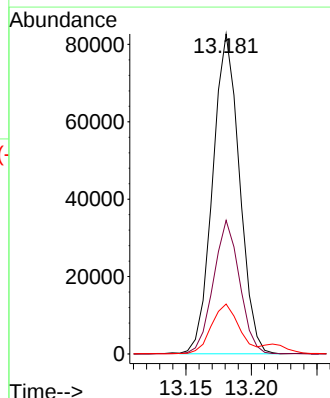
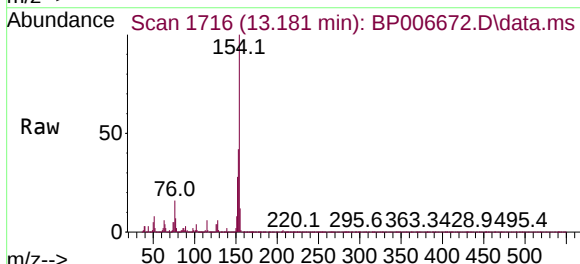
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

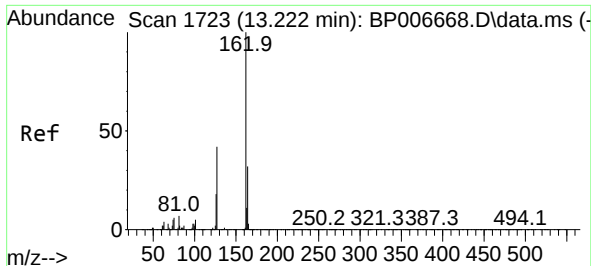
Tgt Ion:	196	Resp:	26769
Ion Ratio	Lower	Upper	
196	100		
198	97.1	79.3	118.9
200	31.0	25.8	38.8



#43
1,1'-Biphenyl
Concen: 4.275 ng/ul
RT: 13.181 min Scan# 1716
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	154	Resp:	117383
Ion Ratio	Lower	Upper	
154	100		
153	41.7	32.4	48.6
76	15.6	12.9	19.3

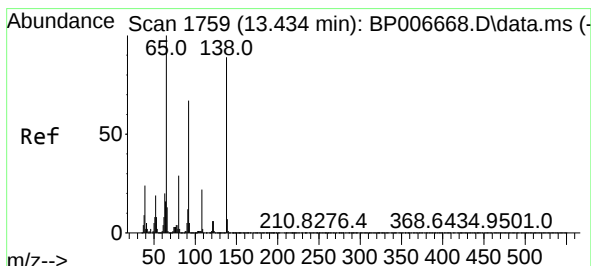
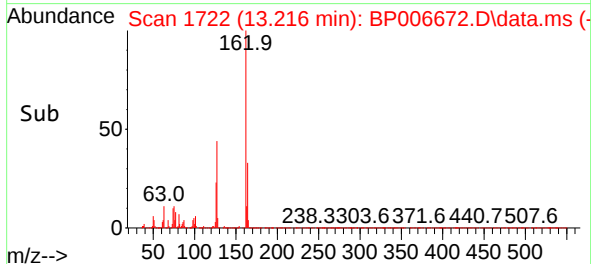
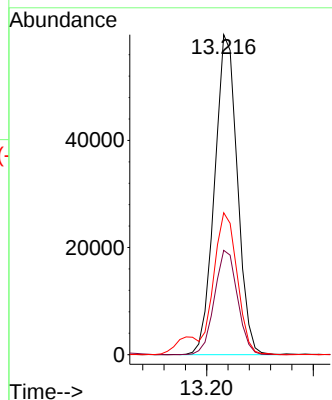
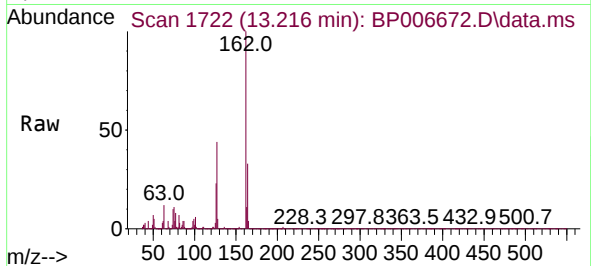




#44
2-Chloronaphthalene
Concen: 4.251 ng/ul
RT: 13.216 min Scan# 1722
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

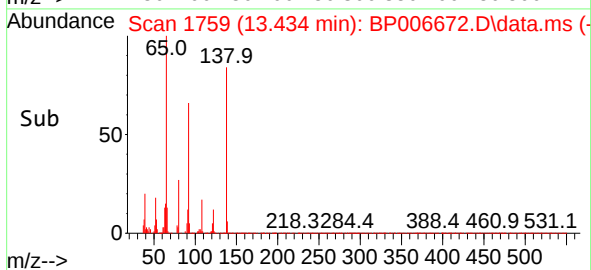
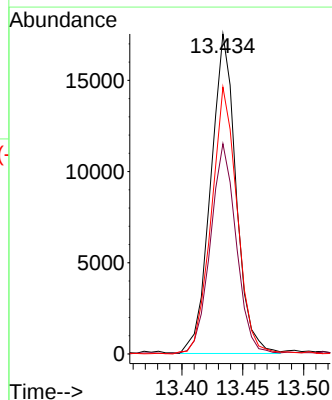
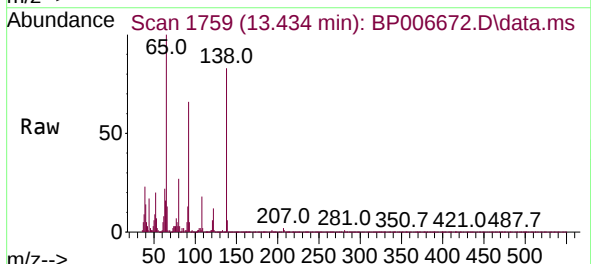
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

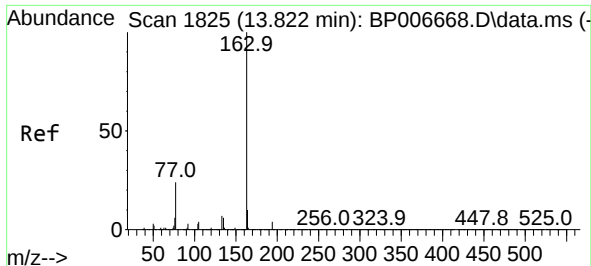
Tgt Ion:	162	Resp:	88561
Ion Ratio	Lower	Upper	
162	100		
164	32.6	25.6	38.4
127	44.4	36.2	54.2



#45
2-Nitroaniline
Concen: 3.378 ng/ul
RT: 13.434 min Scan# 1759
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	65	Resp:	25374
Ion Ratio	Lower	Upper	
65	100		
92	65.7	53.7	80.5
138	83.4	71.4	107.2

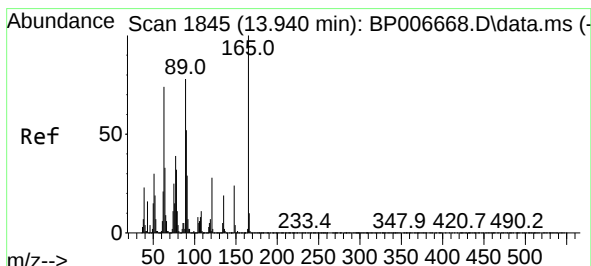
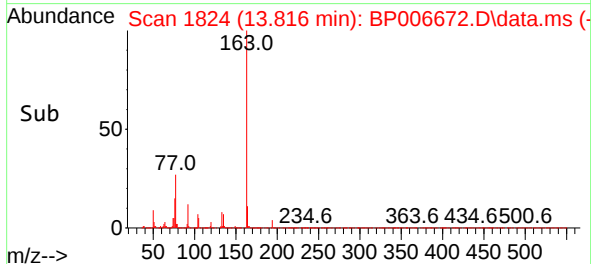
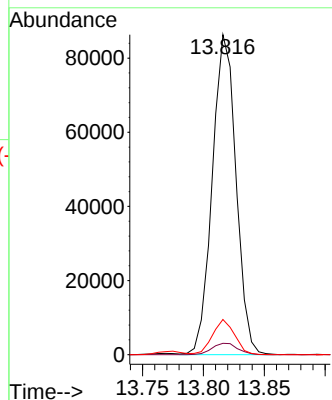
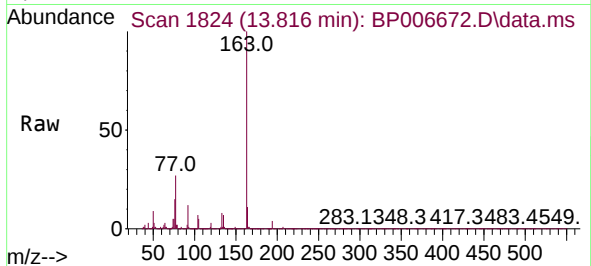




#47
Dimethylphthalate
Concen: 4.369 ng/ul
RT: 13.816 min Scan# 1824
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

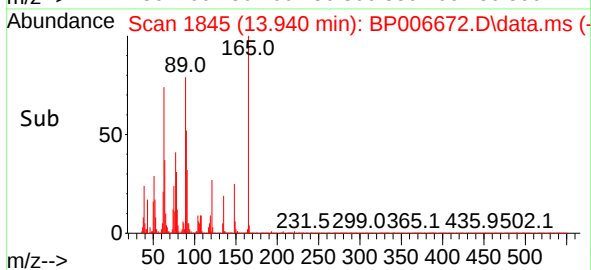
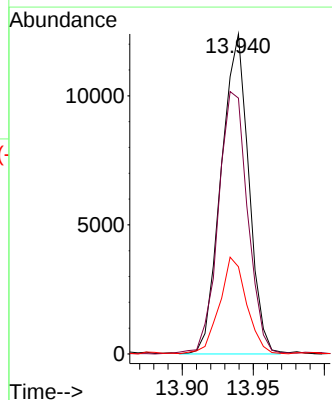
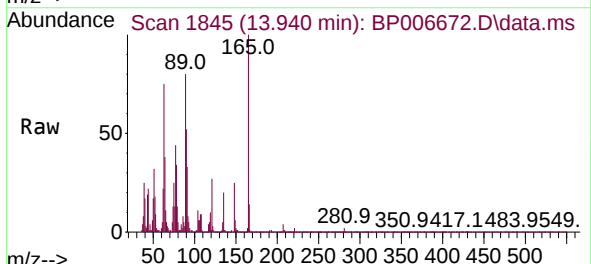
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

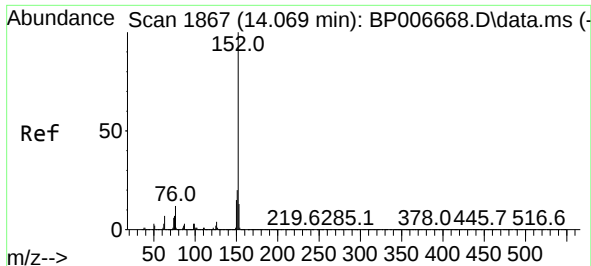
Tgt Ion:163 Resp: 117051
Ion Ratio Lower Upper
163 100
194 3.6 3.0 4.4
164 11.0 7.8 11.8



#48
2,6-Dinitrotoluene
Concen: 3.240 ng/ul
RT: 13.940 min Scan# 1845
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:165 Resp: 16752
Ion Ratio Lower Upper
165 100
89 79.9 62.2 93.2
121 27.2 22.1 33.1

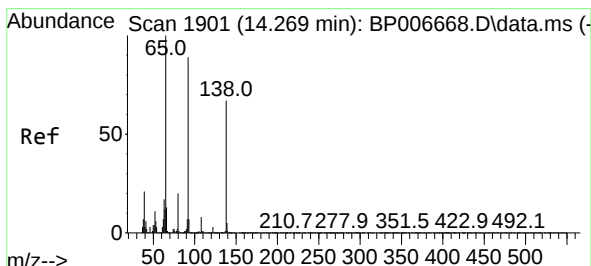
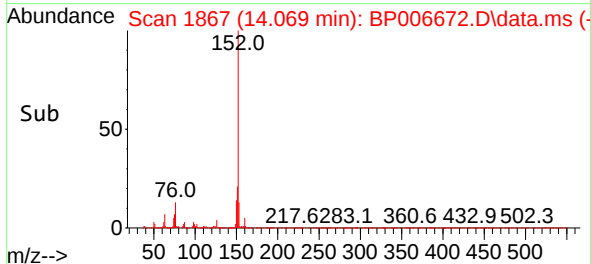
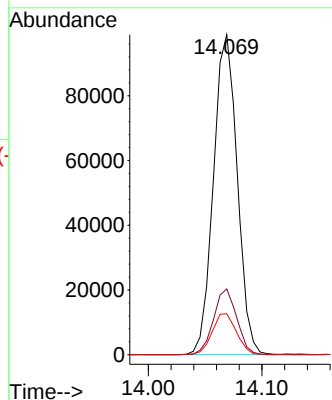
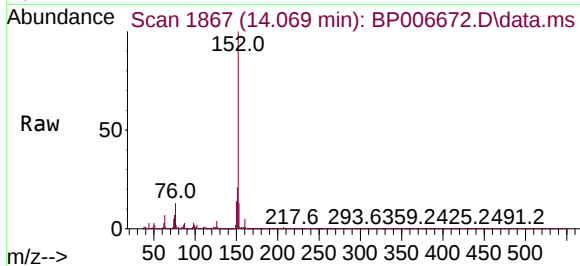




#50
Acenaphthylene
Concen: 4.424 ng/ul
RT: 14.069 min Scan# 1867
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

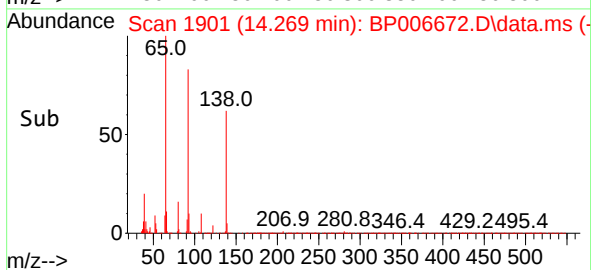
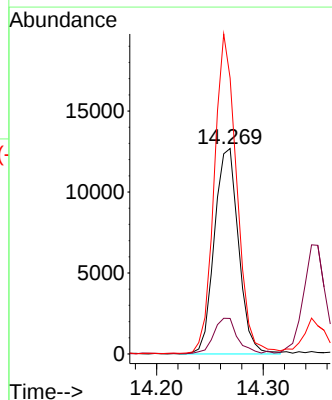
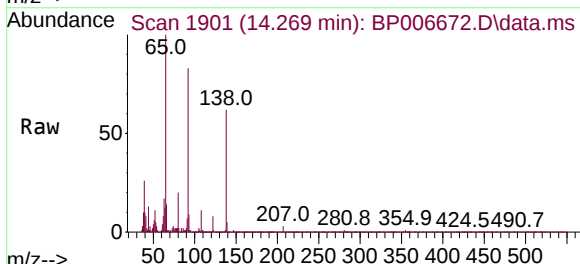
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

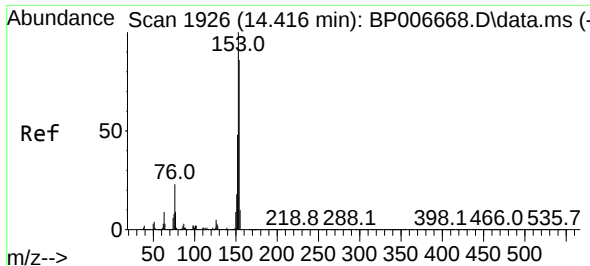
Tgt Ion:	152	Resp:	143687
Ion Ratio	Lower	Upper	
152	100		
151	20.5	15.9	23.9
153	12.8	10.4	15.6



#51
3-Nitroaniline
Concen: 3.371 ng/ul
RT: 14.269 min Scan# 1901
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	138	Resp:	19964
Ion Ratio	Lower	Upper	
138	100		
108	17.3	9.7	14.5#
92	134.2	106.7	160.1

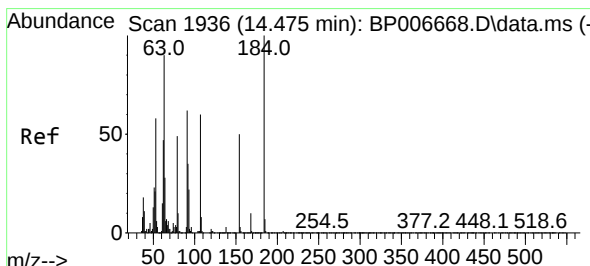
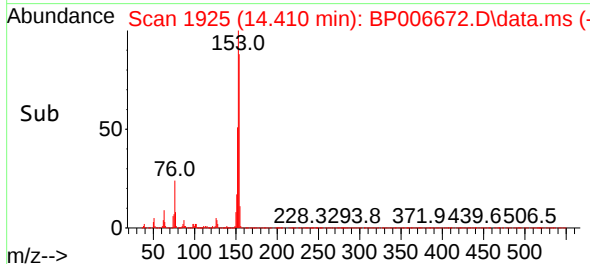
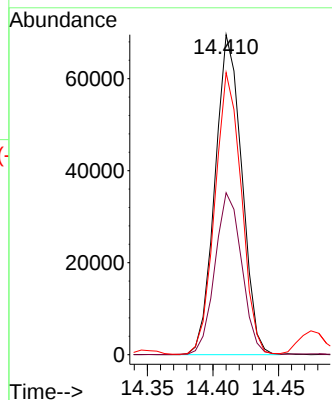
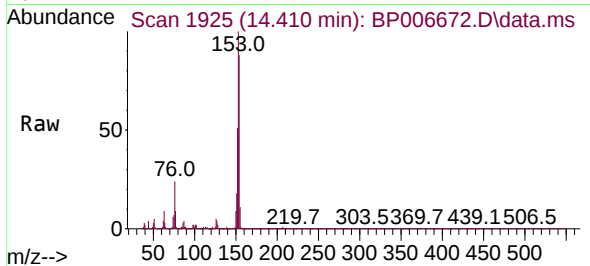




#52
Acenaphthene
Concen: 4.268 ng/ul
RT: 14.410 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

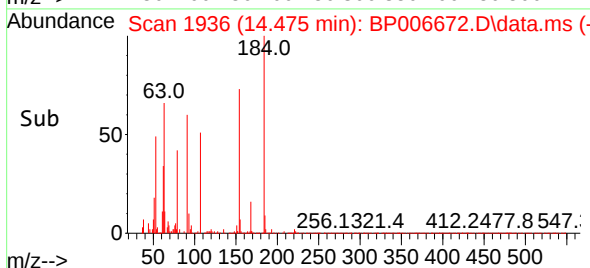
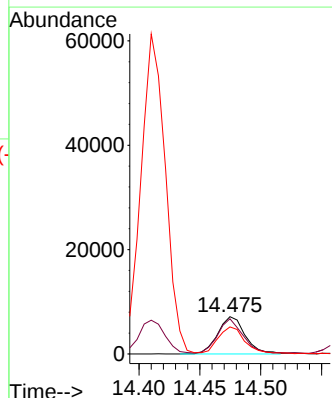
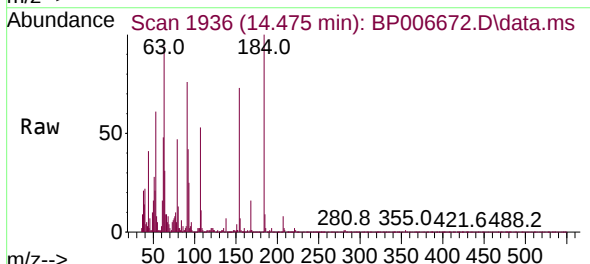
Instrument :
BNA_P
ClientSampleId :
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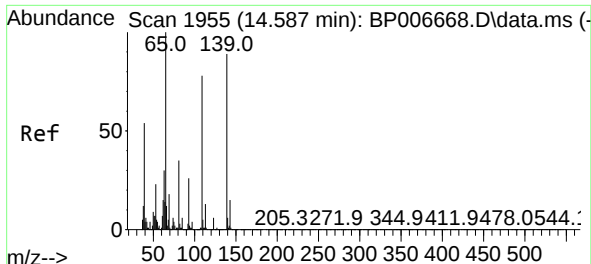
Tgt Ion:153	Resp:	98850
Ion Ratio	Lower	Upper
153	100	
152	50.6	38.6 57.8
154	88.1	69.0 103.6



#53
2,4-Dinitrophenol
Concen: 3.344 ng/ul
RT: 14.475 min Scan# 1936
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:184	Resp:	11183
Ion Ratio	Lower	Upper
184	100	
63	94.5	73.4 110.2
154	72.7	59.4 89.0

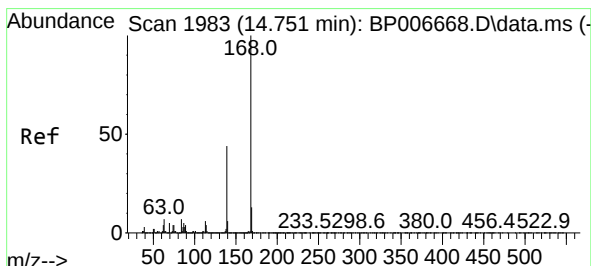
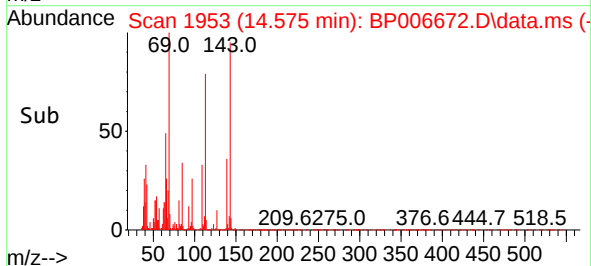
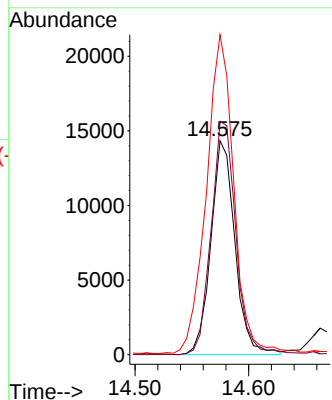
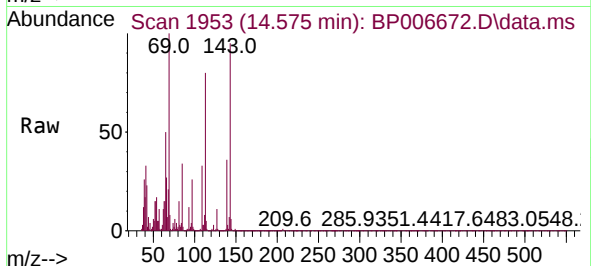




#55
4-Nitrophenol
Concen: 4.157 ng/ul
RT: 14.575 min Scan# 1953
Delta R.T. -0.012 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

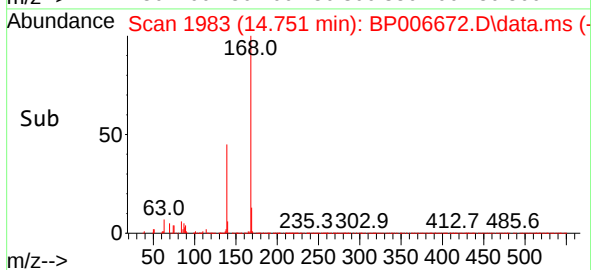
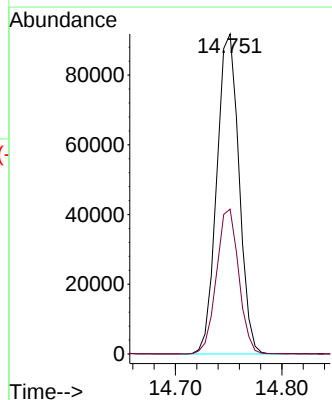
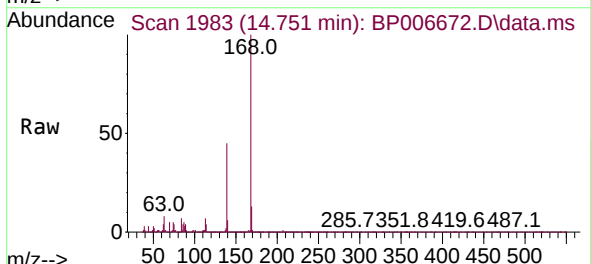
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ClientSampleId :
MDL-SOIL-QT3-2021-05

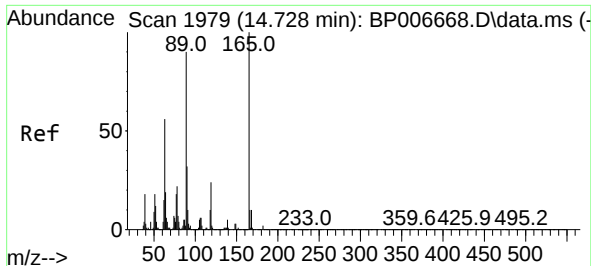
Tgt Ion:109 Resp: 21090
Ion Ratio Lower Upper
109 100
139 109.2 90.3 135.5
65 149.6 102.2 153.2



#56
Dibenzofuran
Concen: 4.288 ng/ul
RT: 14.751 min Scan# 1983
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:168 Resp: 132779
Ion Ratio Lower Upper
168 100
139 45.3 35.3 52.9

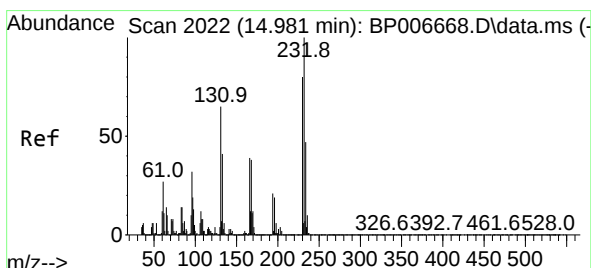
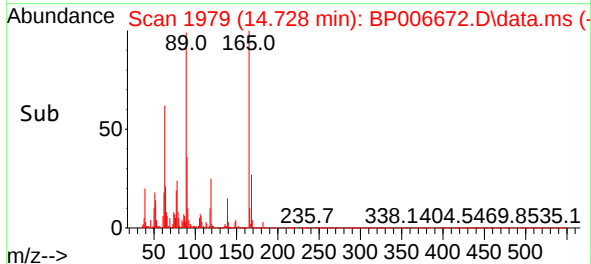
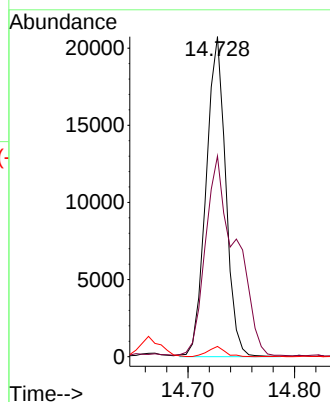
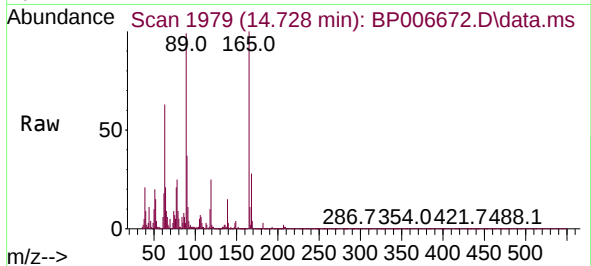




#57
2,4-Dinitrotoluene
Concen: 3.494 ng/ul
RT: 14.728 min Scan# 1979
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

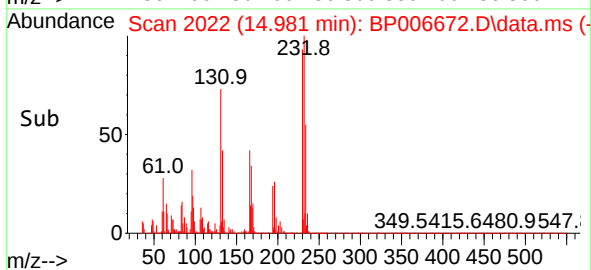
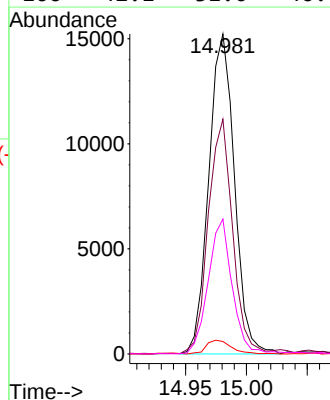
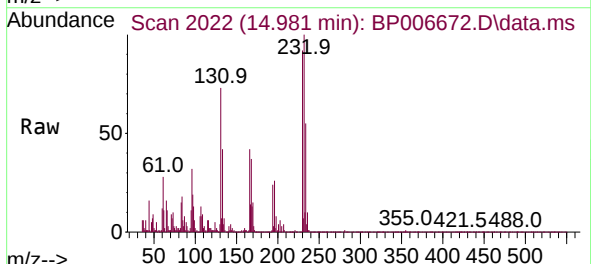
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

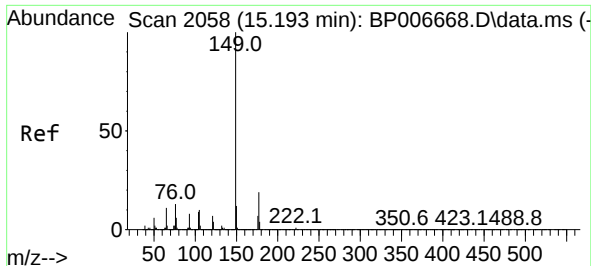
Tgt Ion:165 Resp: 26579
Ion Ratio Lower Upper
165 100
63 62.7 45.2 67.8
182 3.2 1.9 2.9#



#58
2,3,4,6-Tetrachlorophenol
Concen: 3.859 ng/ul
RT: 14.981 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:232 Resp: 22294
Ion Ratio Lower Upper
232 100
131 73.3 51.8 77.6
130 3.9 3.1 4.7
166 42.1 31.0 46.4

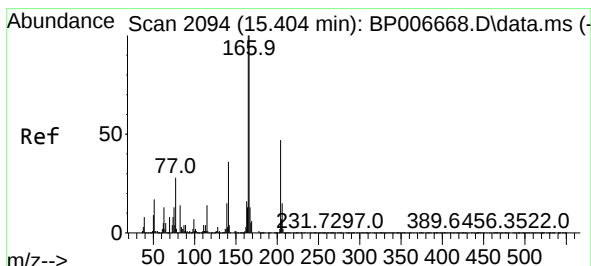
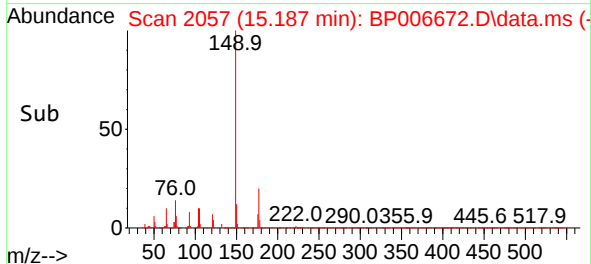
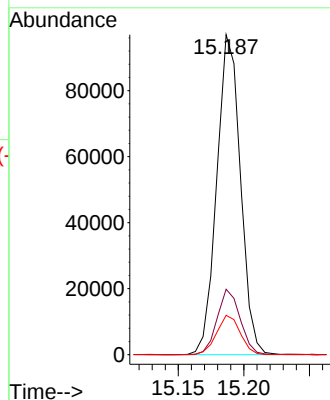
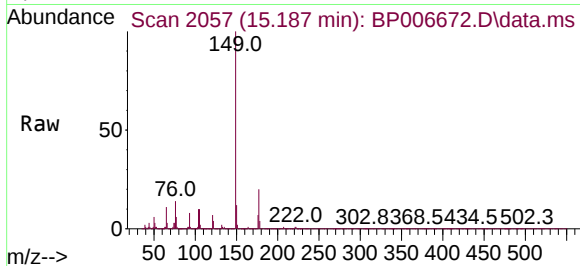




#59
Diethylphthalate
Concen: 4.266 ng/ul
RT: 15.187 min Scan# 2057
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

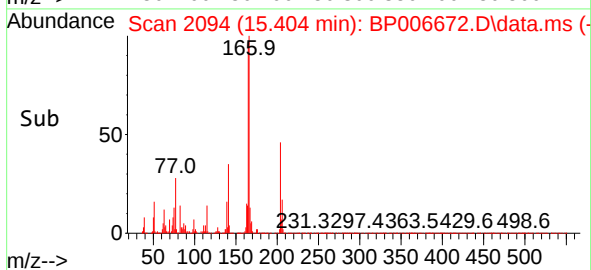
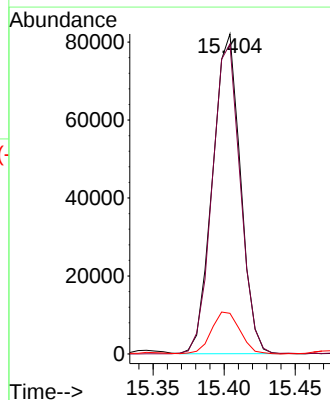
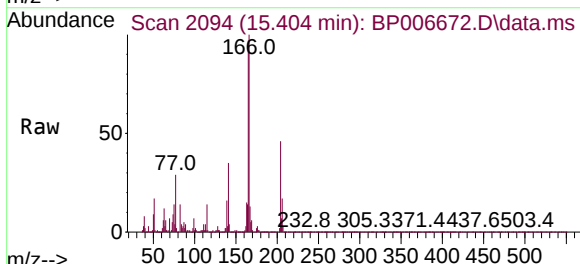
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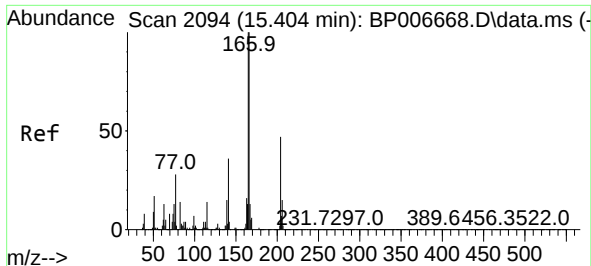
Tgt Ion:149	Resp:	121487
Ion Ratio	Lower	Upper
149	100	
177	20.5	15.5 23.3
150	12.3	9.9 14.9



#61
Fluorene
Concen: 4.323 ng/ul
RT: 15.404 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:166	Resp:	111610
Ion Ratio	Lower	Upper
166	100	
165	96.9	79.6 119.4
167	12.7	10.7 16.1

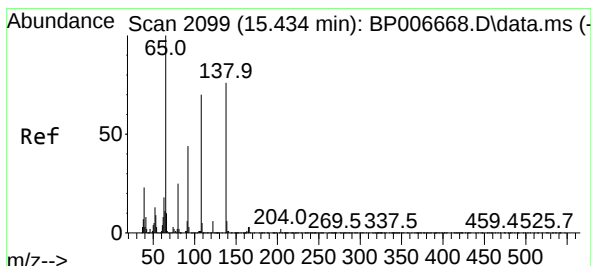
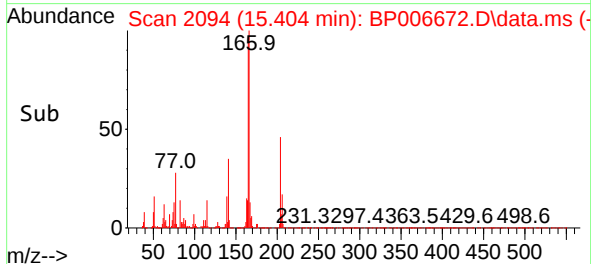
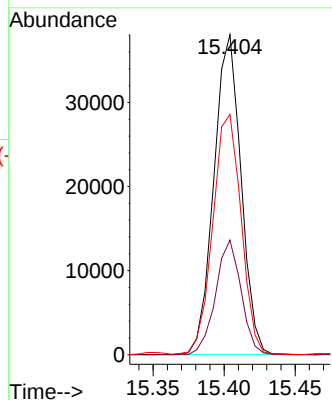
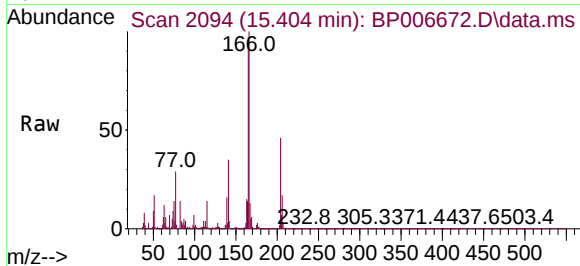




#62
4-Chlorophenyl-phenylether
Concen: 4.312 ng/ul
RT: 15.404 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

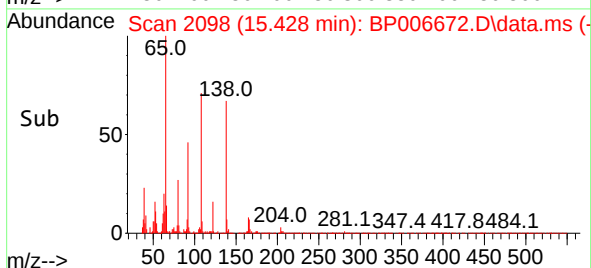
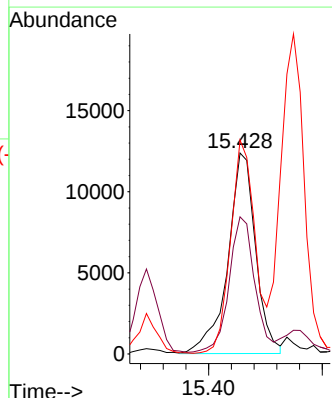
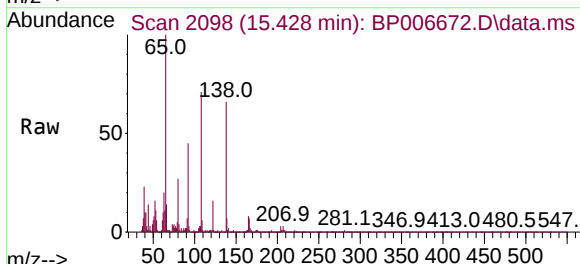
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

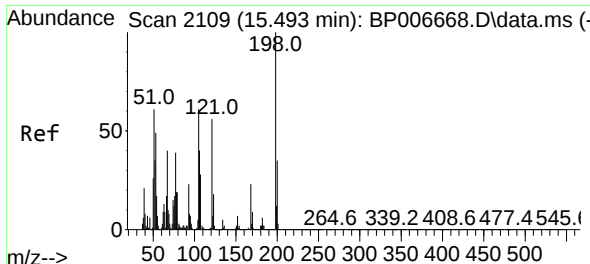
Tgt Ion:	204	Resp:	50400
Ion Ratio	Lower	Upper	
204	100		
206	35.8	26.3	39.5
141	75.1	62.0	93.0



#63
4-Nitroaniline
Concen: 3.782 ng/ul
RT: 15.428 min Scan# 2098
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	138	Resp:	20972
Ion Ratio	Lower	Upper	
138	100		
92	68.2	47.1	70.7
108	106.4	73.8	110.8

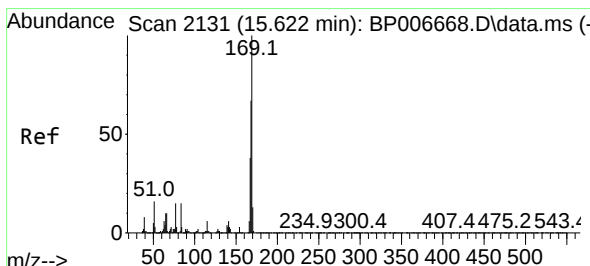
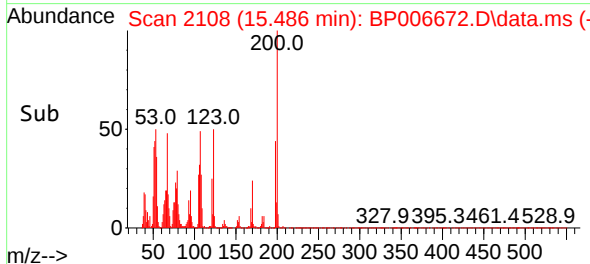
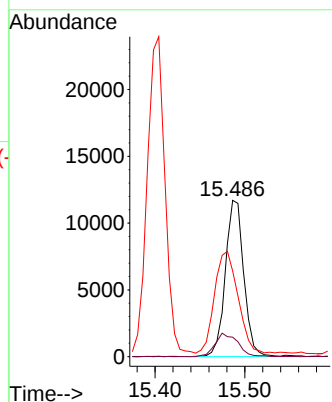
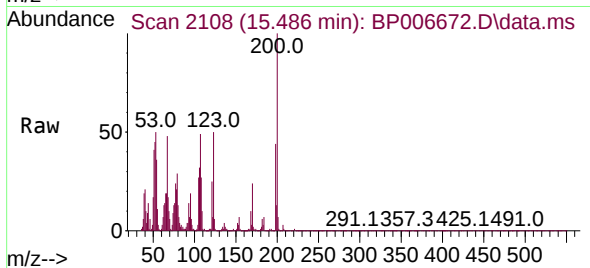




#66
4,6-Dinitro-2-methylphenol
Concen: 3.577 ng/ul
RT: 15.486 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

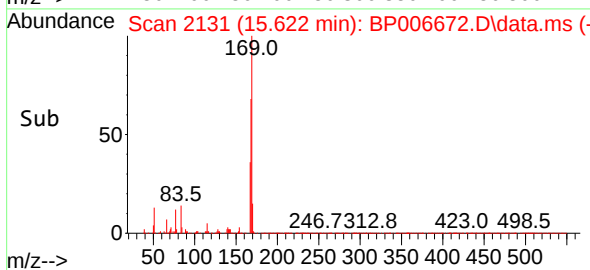
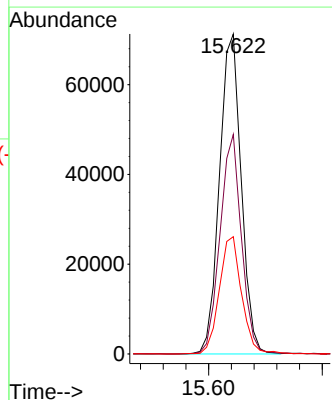
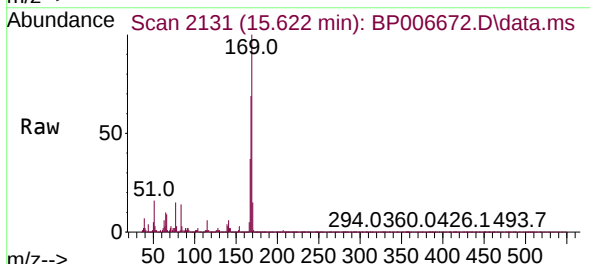
Instrument :
BNA_P
ClientSampleId :
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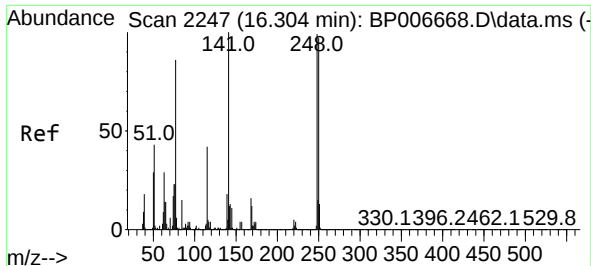
Tgt Ion:198 Resp: 16677
Ion Ratio Lower Upper
198 100
182 12.5 4.5 6.7#
77 54.8 31.7 47.5#



#67
N-Nitrosodiphenylamine
Concen: 4.370 ng/ul
RT: 15.622 min Scan# 2131
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:169 Resp: 94709
Ion Ratio Lower Upper
169 100
168 68.6 53.9 80.9
167 36.7 30.0 45.0

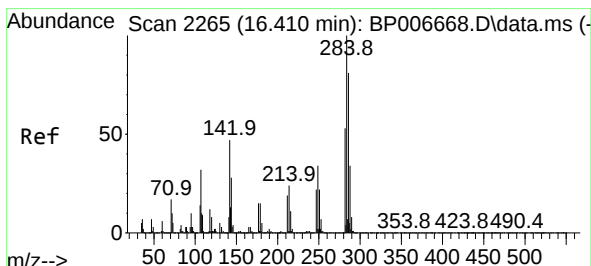
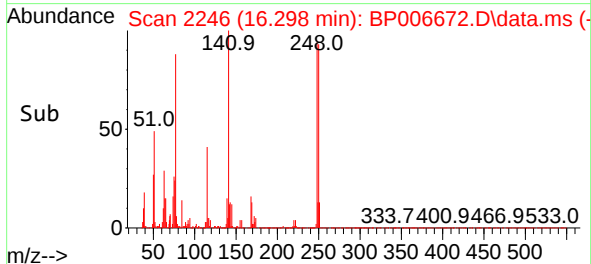
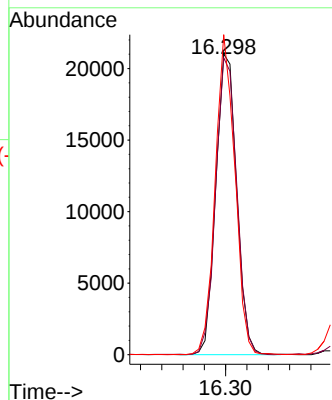
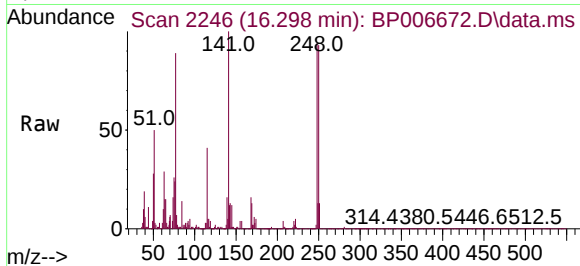




#68
4-Bromophenyl-phenylether
Concen: 4.097 ng/ul
RT: 16.298 min Scan# 2246
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

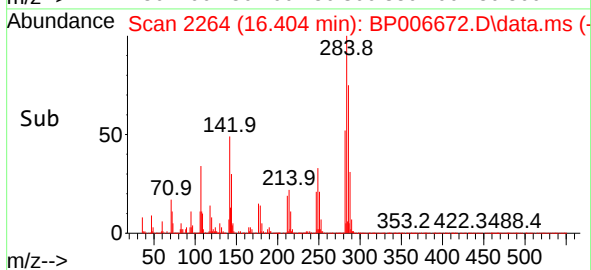
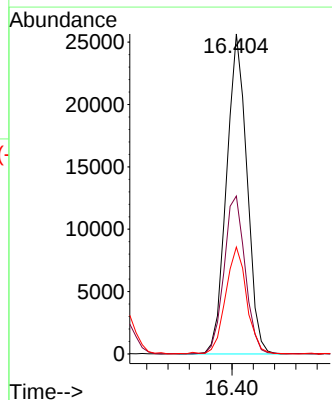
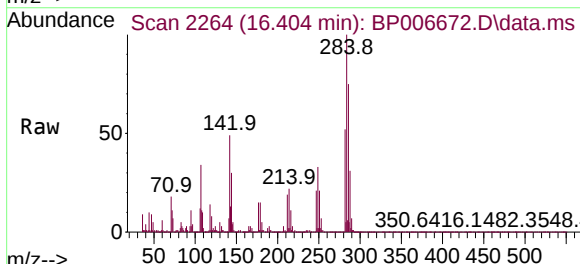
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

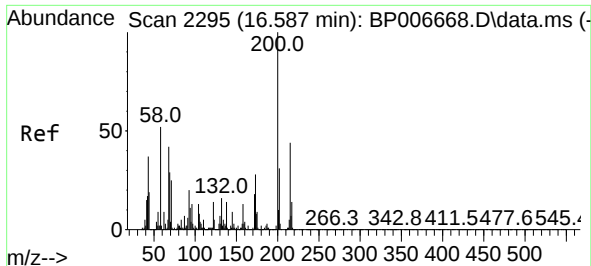
Tgt Ion:248	Resp:	28505
Ion Ratio	Lower	Upper
248	100	
250	98.7	78.4 117.6
141	106.4	80.6 121.0



#69
Hexachlorobenzene
Concen: 4.343 ng/ul
RT: 16.404 min Scan# 2264
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:284	Resp:	34153
Ion Ratio	Lower	Upper
284	100	
142	49.3	37.8 56.6
249	35.8	27.1 40.7

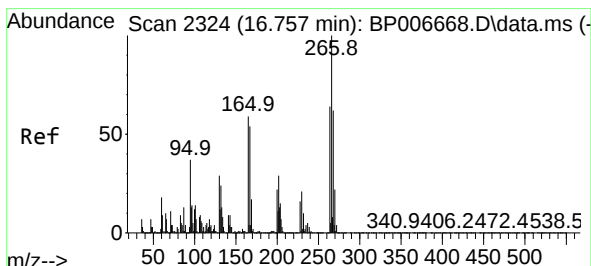
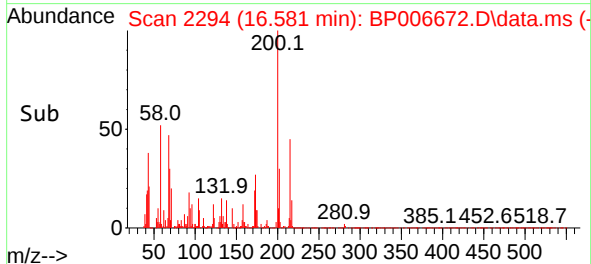
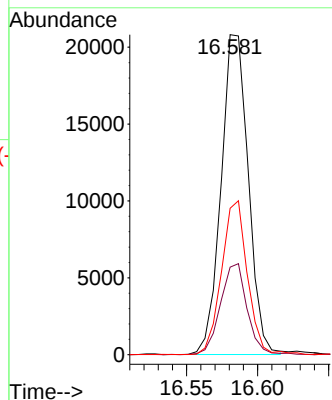
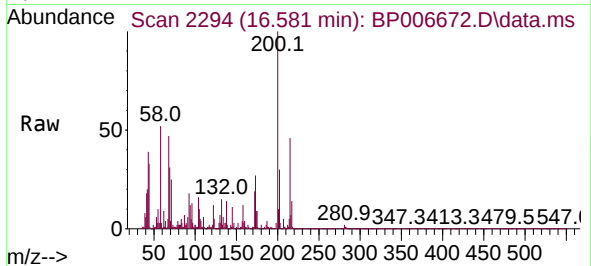




#70
Atrazine
Concen: 3.613 ng/ul
RT: 16.581 min Scan# 2294
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

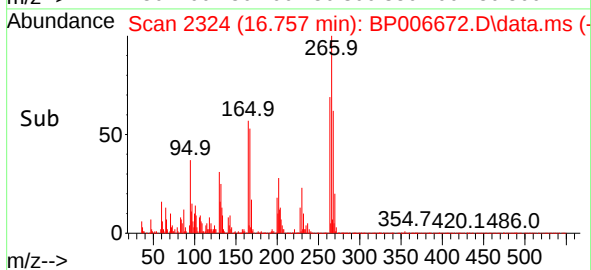
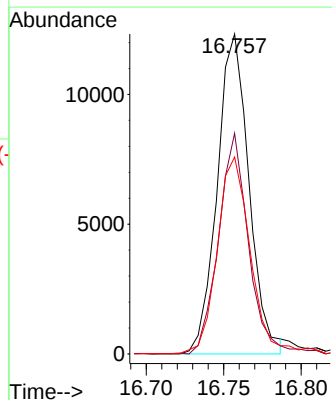
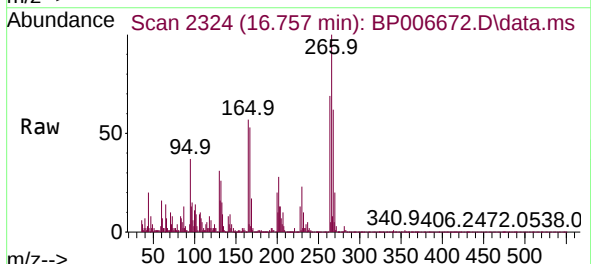
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

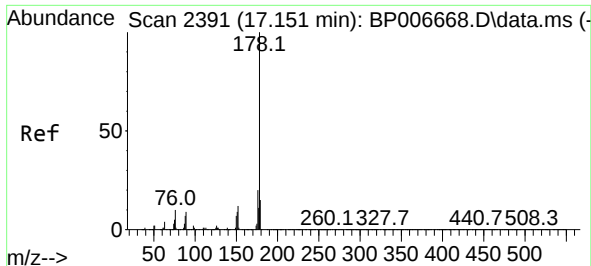
Tgt Ion:	200	Resp:	27773
Ion Ratio	Lower	Upper	
200	100		
173	27.4	22.2	33.4
215	45.8	35.4	53.0



#71
Pentachlorophenol
Concen: 3.411 ng/ul
RT: 16.757 min Scan# 2324
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	266	Resp:	17570
Ion Ratio	Lower	Upper	
266	100		
264	74.0	51.0	76.4
268	61.6	49.4	74.2

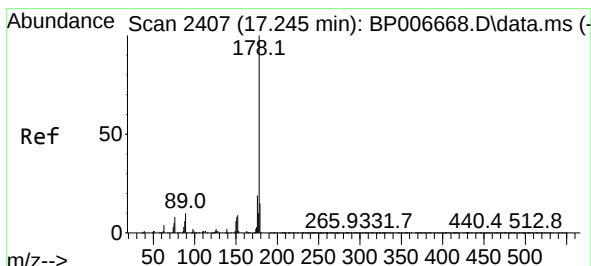
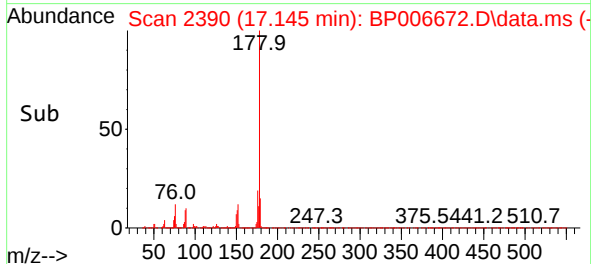
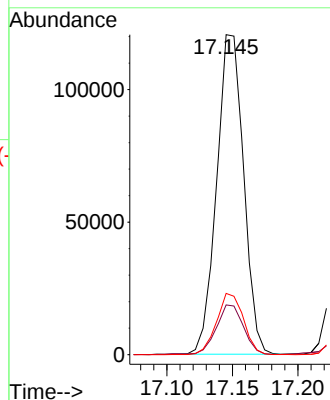
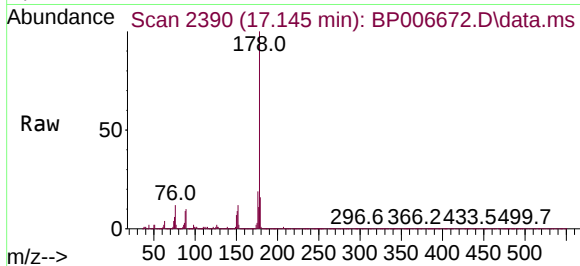




#72
Phenanthrene
Concen: 4.321 ng/ul
RT: 17.145 min Scan# 2390
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

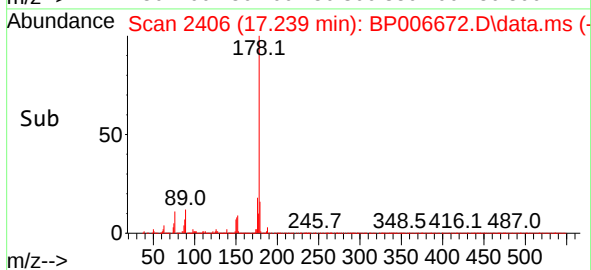
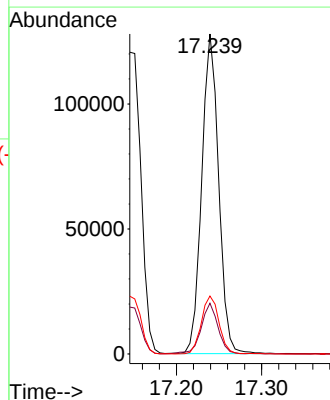
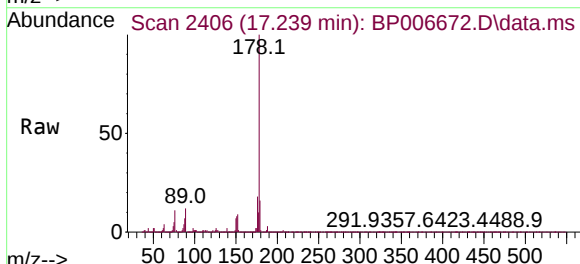
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

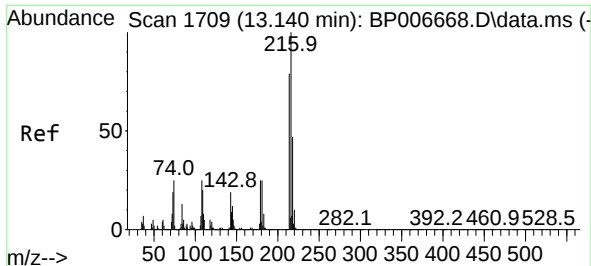
Tgt Ion:178 Resp: 172218
Ion Ratio Lower Upper
178 100
179 15.6 12.0 18.0
176 19.1 15.6 23.4



#74
Anthracene
Concen: 4.345 ng/ul
RT: 17.239 min Scan# 2406
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:178 Resp: 175868
Ion Ratio Lower Upper
178 100
179 15.9 12.1 18.1
176 18.1 14.9 22.3

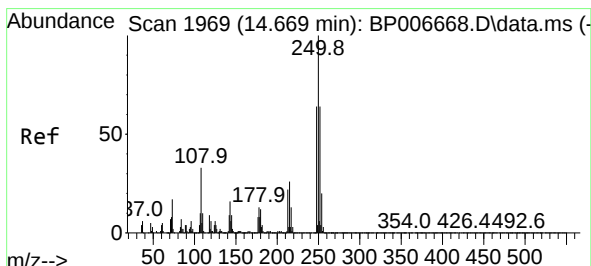
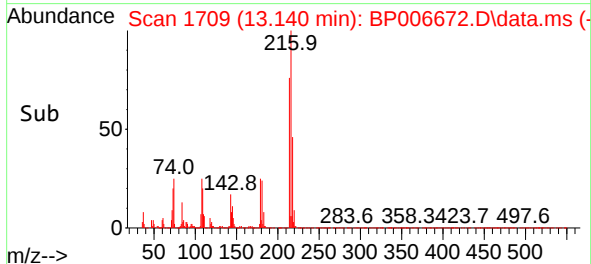
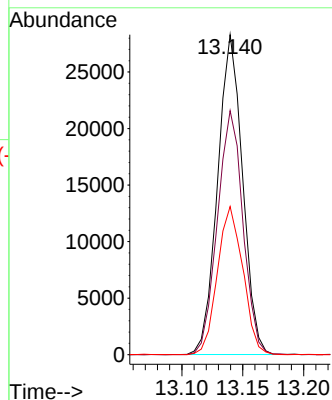
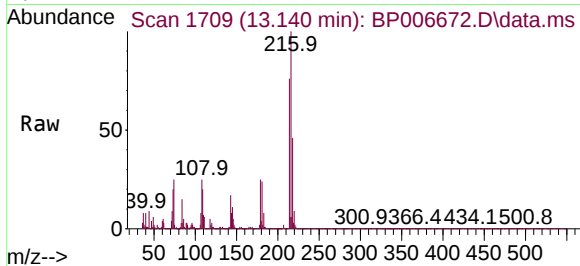




#75
1,2,3,4-Tetrachlorobenzene
Concen: 4.201 ng/uL
RT: 13.140 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

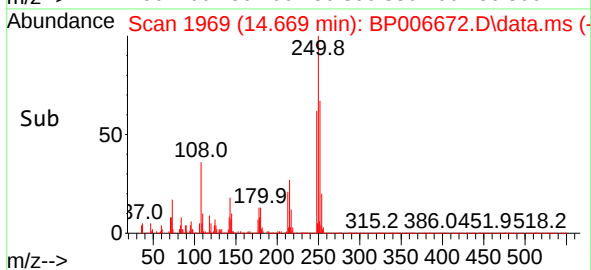
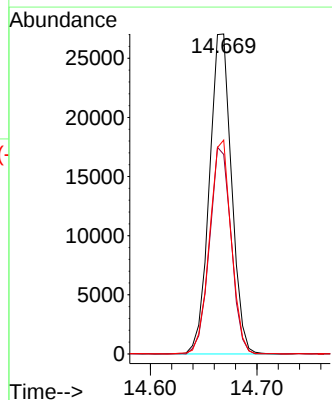
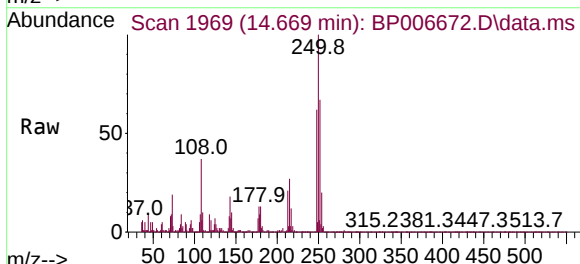
Instrument :
BNA_P
ClientSampleId :
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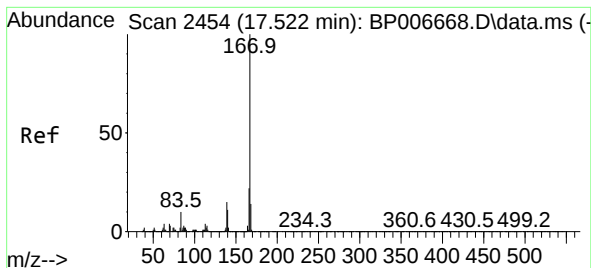
Tgt Ion:	216	Resp:	40299
Ion Ratio	Lower	Upper	
216	100		
214	76.2	62.9	94.3
218	46.3	37.8	56.8



#76
Pentachlorobenzene
Concen: 4.121 ng/uL
RT: 14.669 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	250	Resp:	38958
Ion Ratio	Lower	Upper	
250	100		
248	62.4	51.0	76.6
252	66.9	51.0	76.4

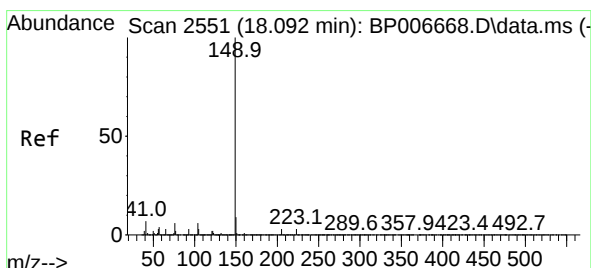
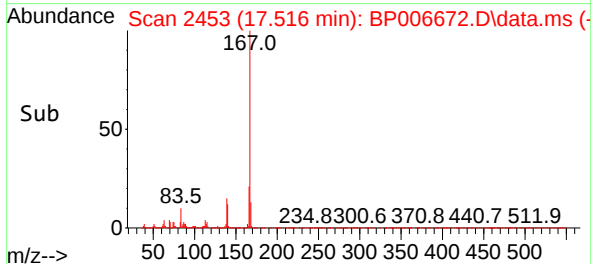
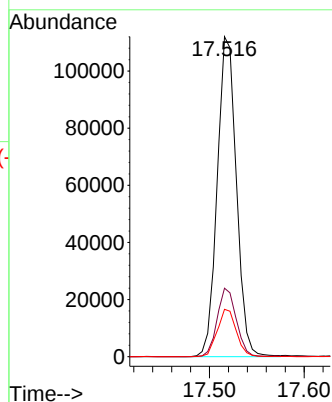
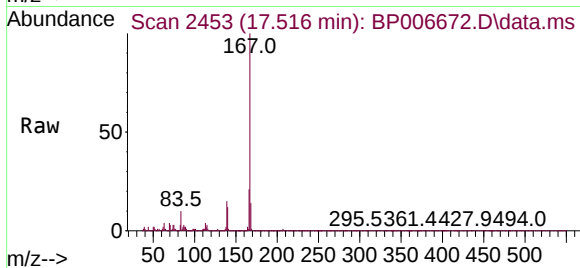




#77
Carbazole
Concen: 4.176 ng/ul
RT: 17.516 min Scan# 2453
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

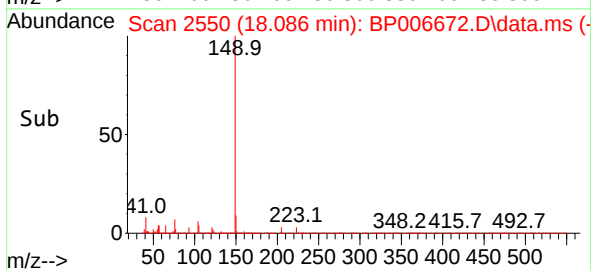
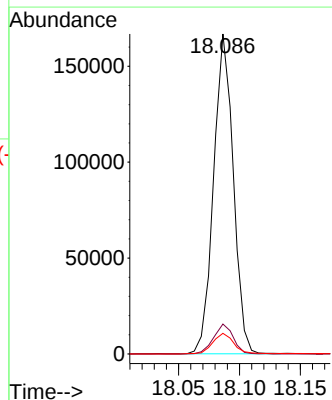
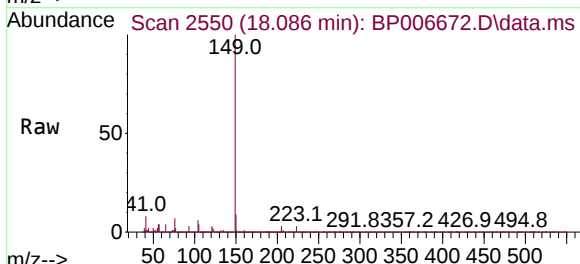
Instrument :
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MDL-SOIL-QT3-2021-05

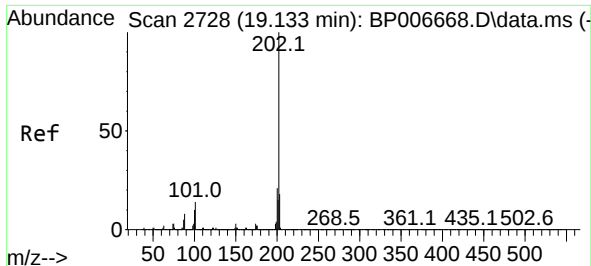
Tgt Ion:	167	Resp:	157878
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.6	26.4
139	14.8	11.9	17.9



#78
Di-n-butylphthalate
Concen: 3.828 ng/ul
RT: 18.086 min Scan# 2550
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:	149	Resp:	187086
Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	6.4	4.8	7.2

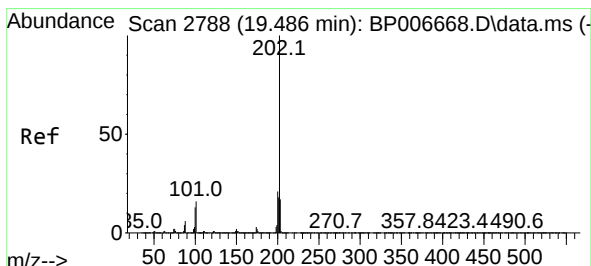
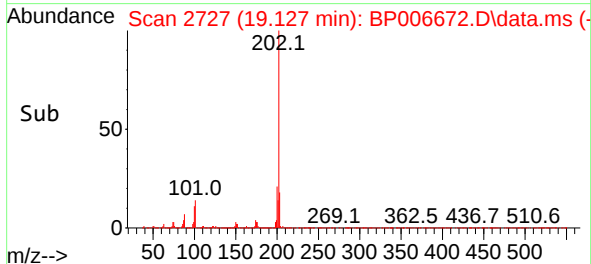
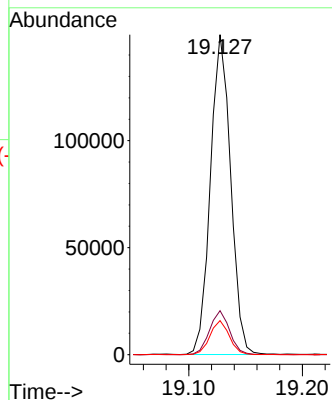
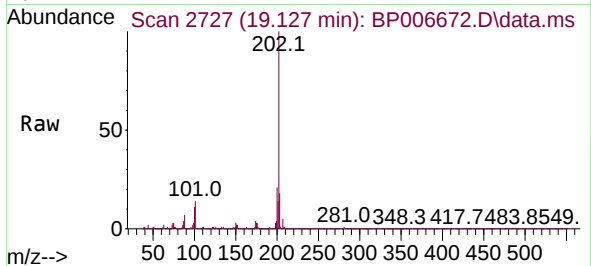




#80
Fluoranthene
Concen: 3.955 ng/ul
RT: 19.127 min Scan# 2727
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

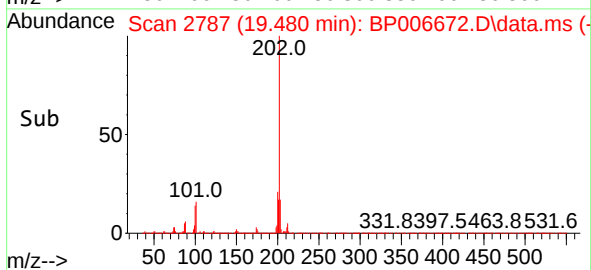
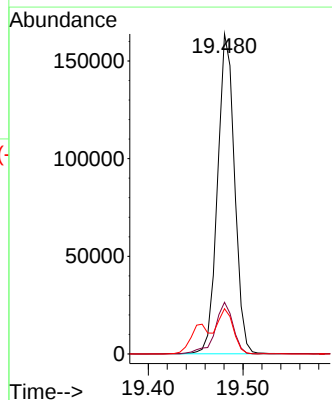
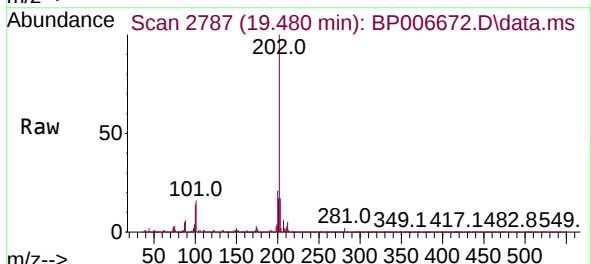
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

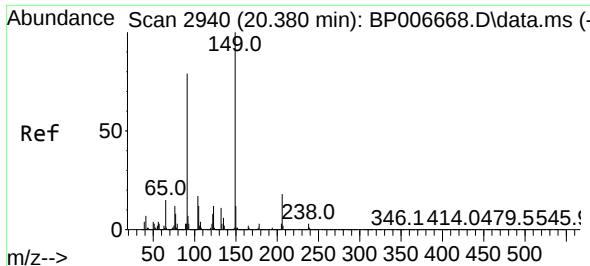
Tgt Ion:202	Resp:	184997
Ion Ratio	Lower	Upper
202	100	
101	13.7	11.0 16.4
100	10.7	8.3 12.5



#82
Pyrene
Concen: 4.238 ng/ul
RT: 19.480 min Scan# 2787
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:202	Resp:	204782
Ion Ratio	Lower	Upper
202	100	
101	16.2	12.6 19.0
100	14.2	10.6 15.8

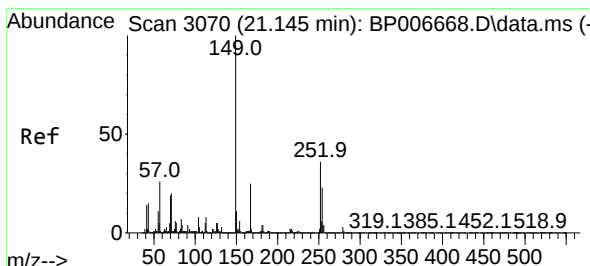
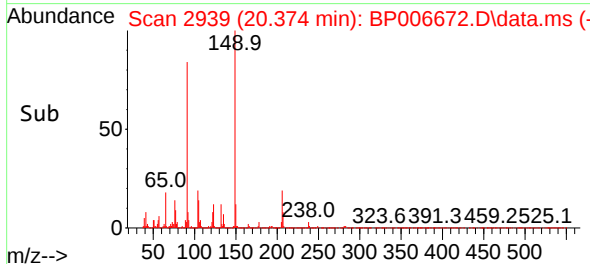
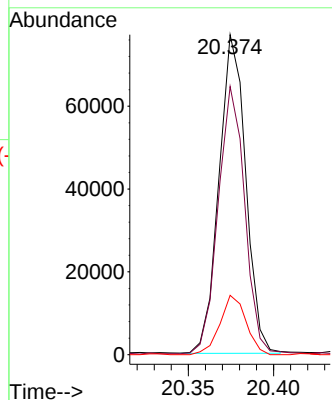
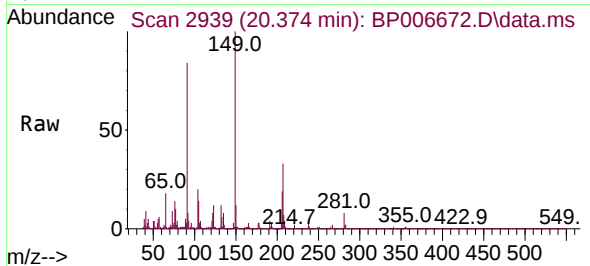




#83
Butylbenzylphthalate
Concen: 3.518 ng/ul
RT: 20.374 min Scan# 2939
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

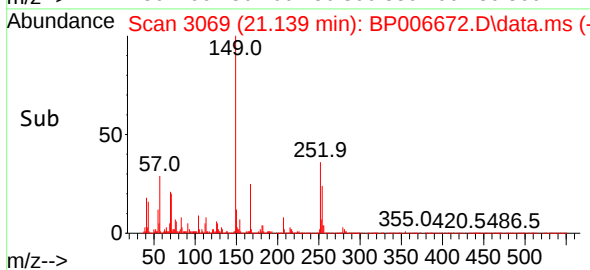
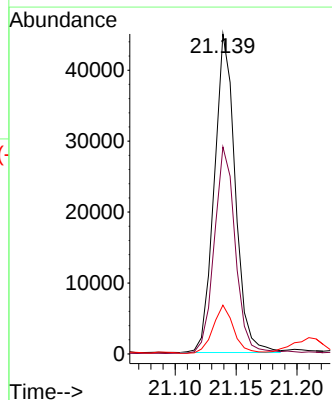
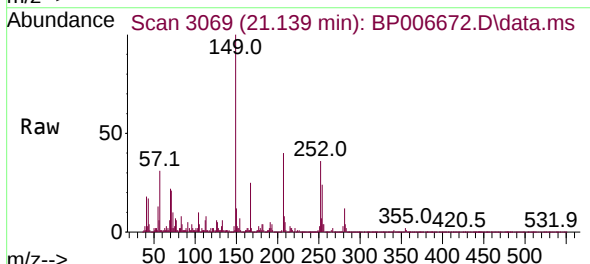
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

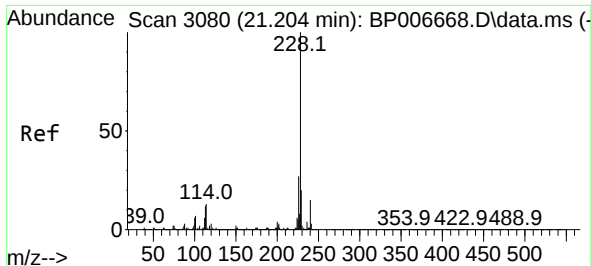
Tgt Ion:149	Resp:	84038
Ion Ratio	Lower	Upper
149	100	
91	83.8	63.0 94.6
206	18.6	14.1 21.1



#84
3,3'-Dichlorobenzidine
Concen: 3.327 ng/ul
RT: 21.139 min Scan# 3069
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:252	Resp:	53804
Ion Ratio	Lower	Upper
252	100	
254	64.7	51.6 77.4
126	15.2	10.7 16.1

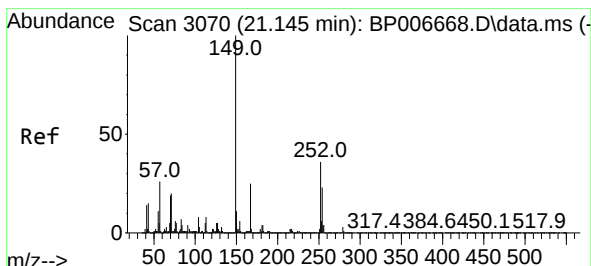
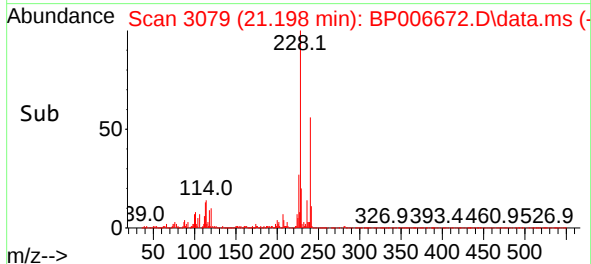
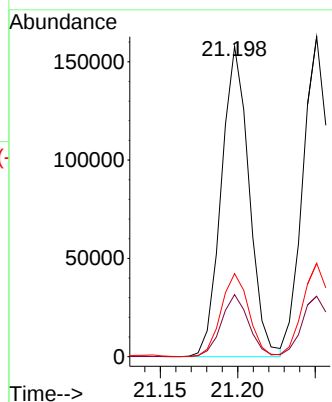
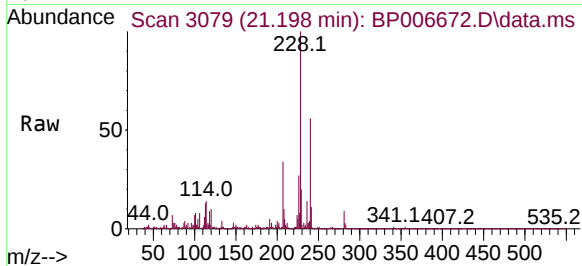




#85
Benzo(a)anthracene
Concen: 4.259 ng/ul
RT: 21.198 min Scan# 3079
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

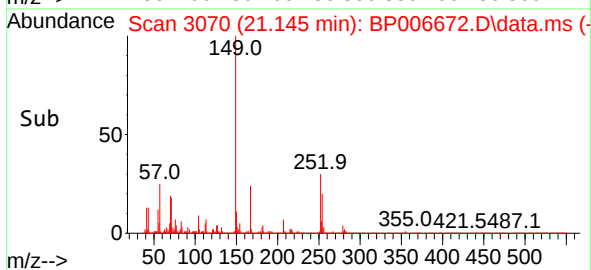
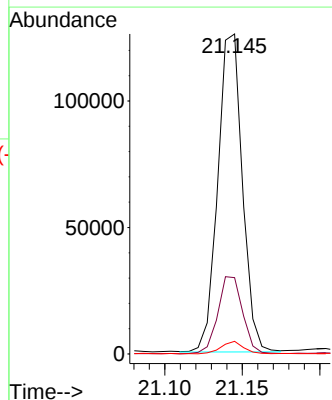
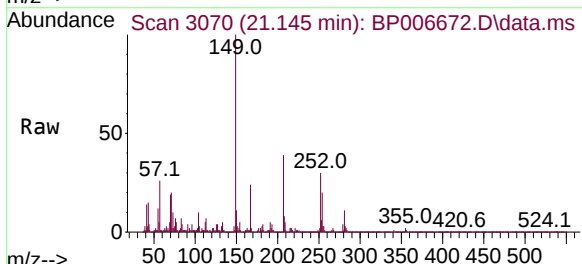
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

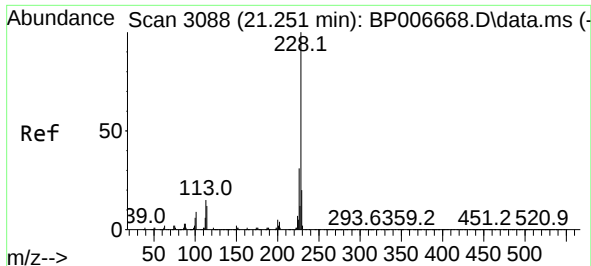
Tgt Ion:228	Resp:	196606
Ion Ratio	Lower	Upper
228	100	
229	20.0	15.8 23.8
226	26.8	21.6 32.4



#86
Bis(2-ethylhexyl)phthalate
Concen: 3.771 ng/ul
RT: 21.145 min Scan# 3070
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:149	Resp:	138805
Ion Ratio	Lower	Upper
149	100	
167	23.9	20.2 30.2
279	3.9	2.7 4.1

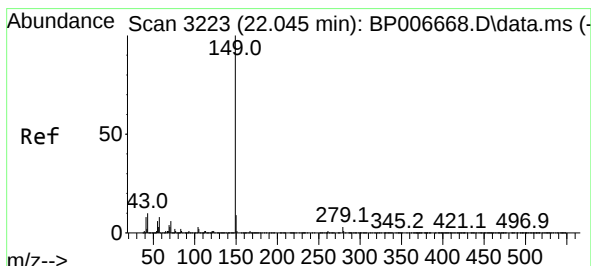
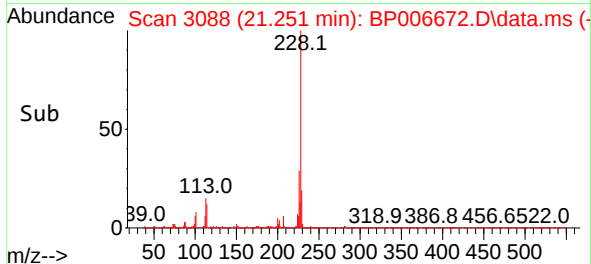
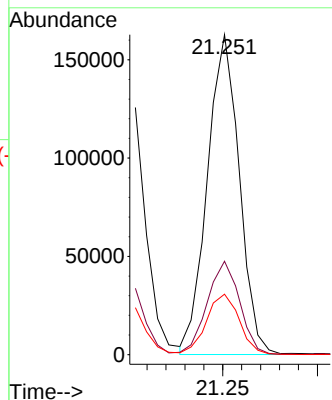
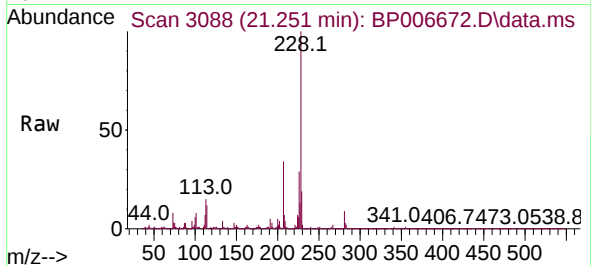




#87
Chrysene
Concen: 4.287 ng/ul
RT: 21.251 min Scan# 3088
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

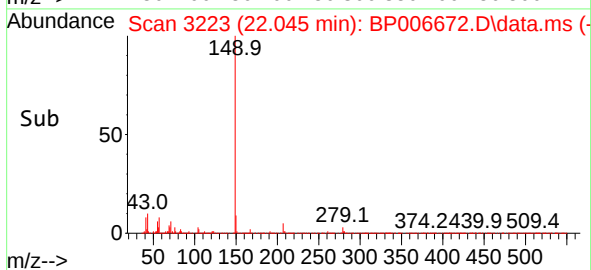
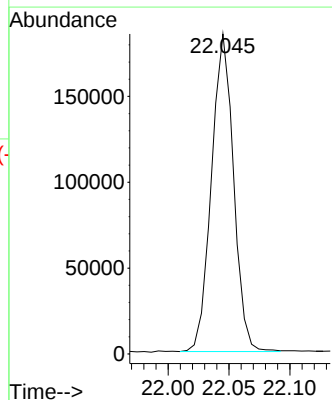
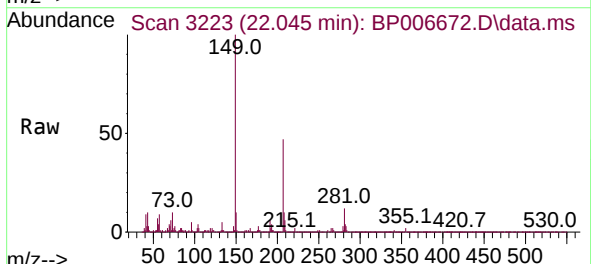
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

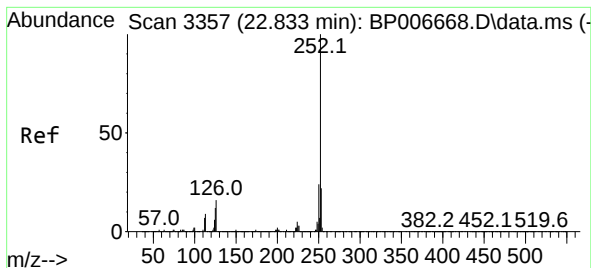
Tgt Ion:228 Resp: 190799
Ion Ratio Lower Upper
228 100
226 29.2 24.5 36.7
229 18.9 15.9 23.9



#89
Di-n-octyl phthalate
Concen: 3.648 ng/ul
RT: 22.045 min Scan# 3223
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:149 Resp: 233612





#90

Benzo(b)fluoranthene

Concen: 4.232 ng/ul

RT: 22.827 min Scan# 3356

Delta R.T. -0.006 min

Lab File: BP006672.D

Acq: 13 Aug 2021 13:58

Tgt Ion:252 Resp: 203646

Ion Ratio Lower Upper

252 100

253 21.3 17.7 26.5

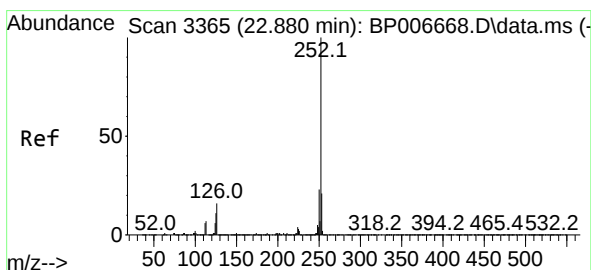
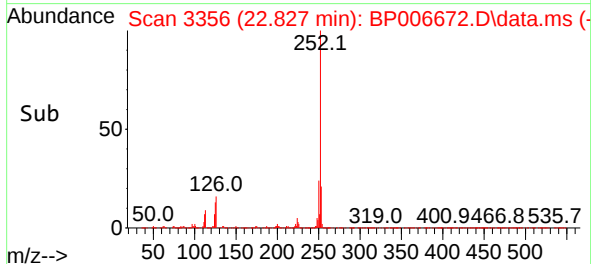
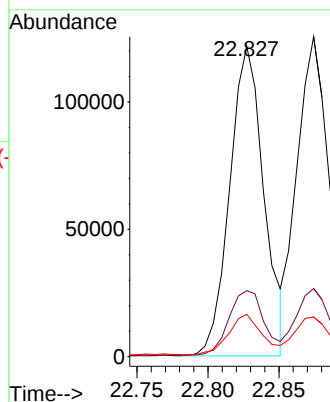
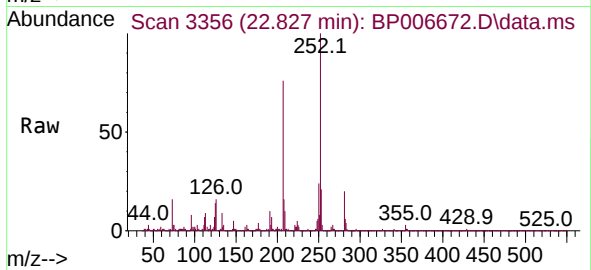
125 13.7 10.1 15.1

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT3-2021-05



#91

Benzo(k)fluoranthene

Concen: 4.279 ng/ul

RT: 22.874 min Scan# 3364

Delta R.T. -0.006 min

Lab File: BP006672.D

Acq: 13 Aug 2021 13:58

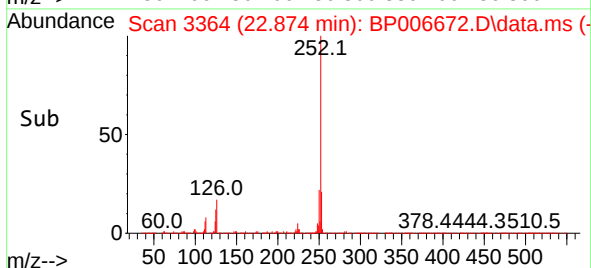
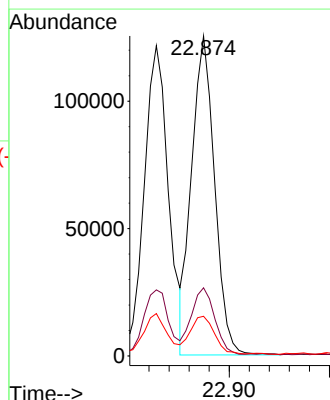
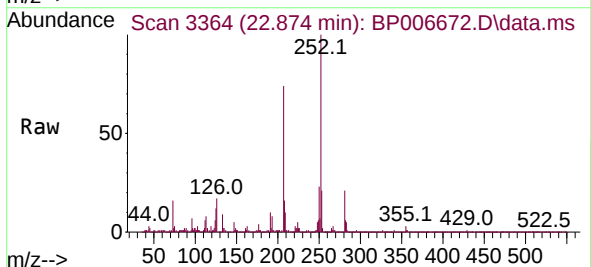
Tgt Ion:252 Resp: 199361

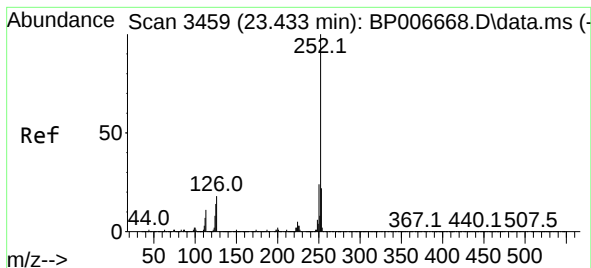
Ion Ratio Lower Upper

252 100

253 21.3 17.2 25.8

125 12.4 9.4 14.0

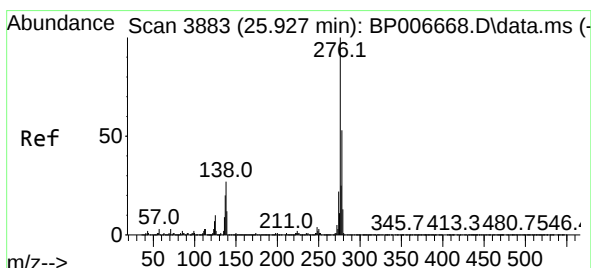
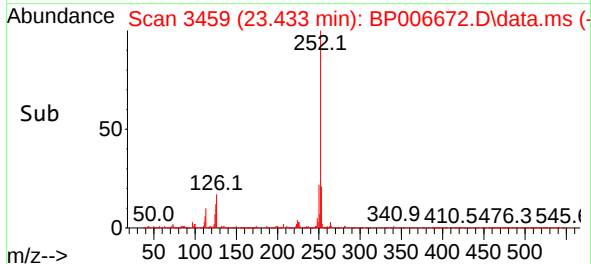
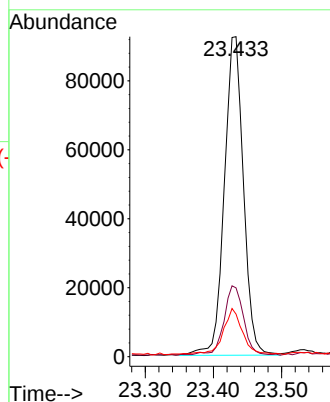
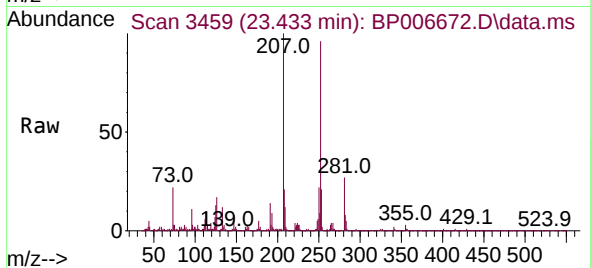




#93
Benzo(a)pyrene
Concen: 4.140 ng/ul
RT: 23.433 min Scan# 3459
Delta R.T. -0.000 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

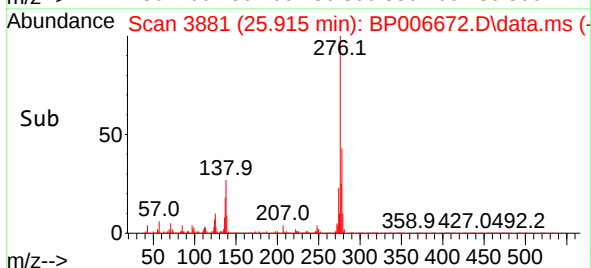
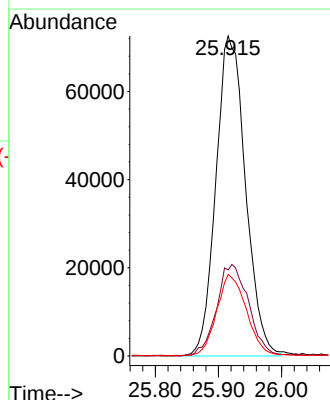
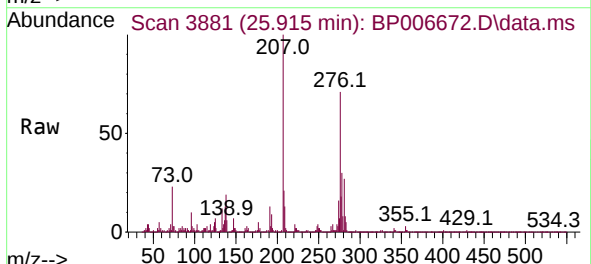
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

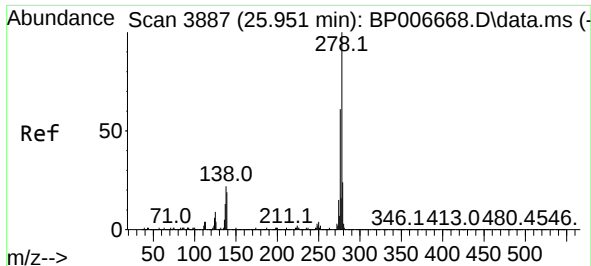
Tgt Ion:252 Resp: 180470
Ion Ratio Lower Upper
252 100
253 21.5 17.6 26.4
125 13.3 11.3 16.9



#94
Indeno(1,2,3-cd)pyrene
Concen: 4.142 ng/ul
RT: 25.915 min Scan# 3881
Delta R.T. -0.012 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:276 Resp: 236130
Ion Ratio Lower Upper
276 100
138 26.9 21.8 32.8
277 25.4 19.9 29.9

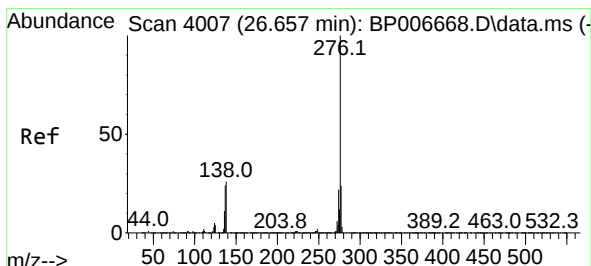
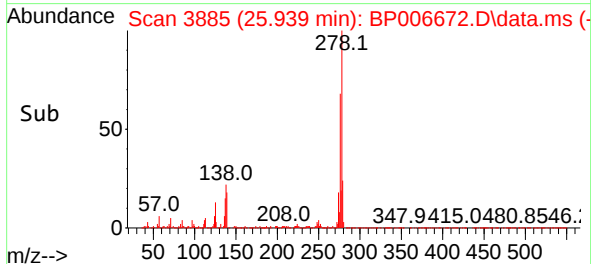
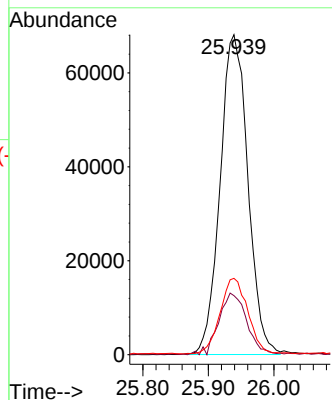
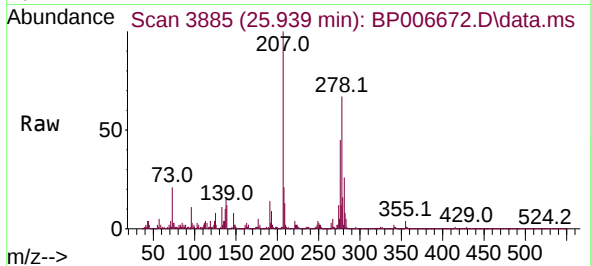




#95
Dibenzo(a,h)anthracene
Concen: 4.191 ng/ul
RT: 25.939 min Scan# 3885
Delta R.T. -0.012 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT3-2021-05

Tgt Ion:278 Resp: 200670
Ion Ratio Lower Upper
278 100
139 18.5 15.4 23.2
279 23.9 19.0 28.4



#96
Benzo(g,h,i)perylene
Concen: 4.191 ng/ul
RT: 26.651 min Scan# 4006
Delta R.T. -0.006 min
Lab File: BP006672.D
Acq: 13 Aug 2021 13:58

Tgt Ion:276 Resp: 198356
Ion Ratio Lower Upper
276 100
138 25.9 20.7 31.1
277 21.9 19.0 28.4

