

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP032125\
 Data File : BP024198.D
 Acq On : 21 Mar 2025 10:28
 Operator : RC/JU
 Sample : Q1546-04
 Misc : MDL-SOIL 4ppm
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 MDL-SOIL-QT1-2025-02

Quant Time: Mar 21 12:38:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP030425.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 21 12:21:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	362830	20.000	ng/u1	0.00
20) Naphthalene-d8	10.522	136	1514376	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.381	164	922704	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.192	188	1798525	20.000	ng/u1	0.00
79) Chrysene-d12	21.645	240	1682681	20.000	ng/u1	0.00
88) Perylene-d12	25.039	264	1503460	20.000	ng/u1	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.269	96	41599	4.567	ng/uL	0.00
4) Pyridine-d5	3.675	84	648308	24.743	ng/u1	0.00
7) Phenol-d5	6.922	99	801739	24.905	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	7.075	67	497646	28.071	ng/u1	0.00
11) 2-Chlorophenol-d4	7.281	132	652680	26.411	ng/u1	0.00
15) 4-Methylphenol-d8	8.446	113	612689	24.105	ng/u1	0.00
21) Nitrobenzene-d5	8.887	128	323433	26.450	ng/u1	0.00
24) 2-Nitrophenol-d4	9.610	143	337740	26.456	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.146	165	569031	24.789	ng/u1	0.00
31) 4-Chloroaniline-d4	10.657	131	882064	25.142	ng/u1	0.00
46) Dimethylphthalate-d6	13.787	166	1804527	26.989	ng/u1	0.00
49) Acenaphthylene-d8	14.069	160	2108080	27.183	ng/u1	0.00
54) 4-Nitrophenol-d4	14.598	143	301266	22.008	ng/u1	0.00
60) Fluorene-d10	15.392	176	1549506	27.276	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.522	200	263257	23.184	ng/u1	0.00
73) Anthracene-d10	17.292	188	2248374	25.616	ng/u1	0.00
81) Pyrene-d10	19.669	212	2602019	30.865	ng/u1	0.00
92) Benzo(a)pyrene-d12	24.792	264	2204683	28.285	ng/u1	-0.02
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.305	88	12409m	1.292	ng/uL	
5) Pyridine	3.699	79	124119	4.678	ng/u1#	84
6) Benzaldehyde	6.893	77	83544	5.033	ng/u1	98
8) Phenol	6.946	94	152562	4.560	ng/u1	97
10) Bis(2-Chloroethyl)ether	7.169	93	126853	4.984	ng/u1	97
12) 2-Chlorophenol	7.316	128	123402	4.788	ng/u1	98
13) 2-Methylphenol	8.187	108	96633	3.953	ng/u1	97
14) 2,2'-oxybis(1-Chloropr...	8.257	45	139528	5.227	ng/u1	100
16) Acetophenone	8.557	105	185302	4.710	ng/u1	98
17) N-Nitroso-di-n-propyla...	8.540	70	86473	4.687	ng/u1	98
18) 4-Methylphenol	8.510	108	114571	4.229	ng/u1	98
19) Hexachloroethane	8.816	117	50681	4.932	ng/u1	95
22) Nitrobenzene	8.928	77	135720	4.936	ng/u1	98
23) Isophorone	9.457	82	225974	4.387	ng/u1	99
25) 2-Nitrophenol	9.640	139	66191	4.682	ng/u1	96
26) 2,4-Dimethylphenol	9.704	107	57700	2.277	ng/u1	94
27) Bis(2-Chloroethoxy)met...	9.934	93	163935	5.003	ng/u1	99
29) 2,4-Dichlorophenol	10.175	162	107393	4.581	ng/u1	98
30) Naphthalene	10.569	128	401788	4.900	ng/u1	100
32) 4-Chloroaniline	10.681	127	151273	4.520	ng/u1	98
33) Hexachlorobutadiene	10.857	225	70579	4.917	ng/u1	99
34) Caprolactam	11.457	113	39362	4.421	ng/u1	95
35) 4-Chloro-3-methylphenol	11.816	107	95147	3.901	ng/u1	98
36) 2-Methylnaphthalene	12.187	142	262388	4.743	ng/u1	100

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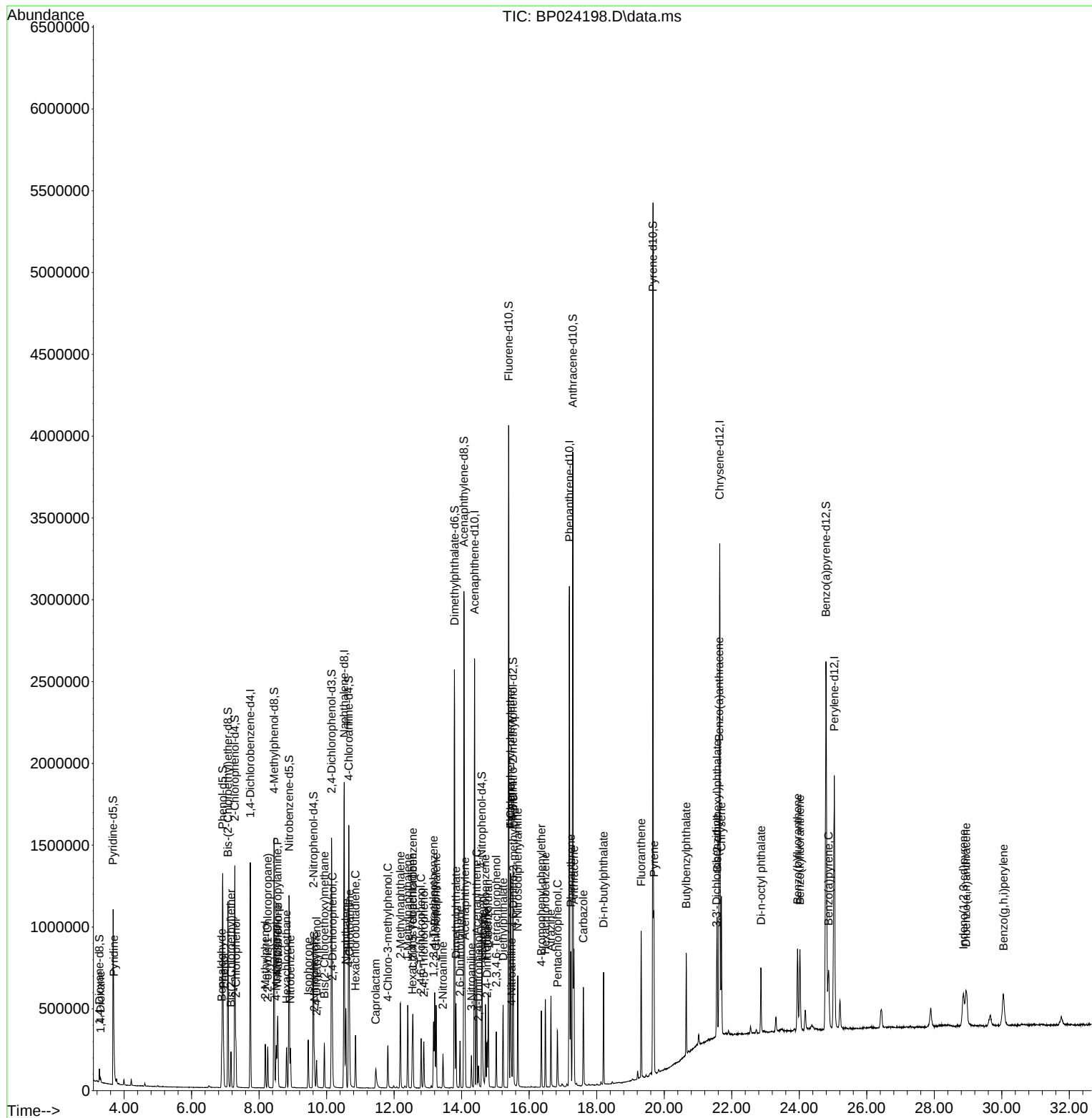
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.404	142	243577	4.454	ng/ul	100
39) 1,2,4,5-Tetrachloroben...	12.557	216	130635	4.685	ng/ul	98
40) Hexachlorocyclopentadiene	12.540	237	59755	4.123	ng/ul	98
41) 2,4,6-Trichlorophenol	12.798	196	67644	3.856	ng/ul	99
42) 2,4,5-Trichlorophenol	12.881	196	73612	3.855	ng/ul	98
43) 1,1'-Biphenyl	13.204	154	348622	4.969	ng/ul	98
44) 2-Chloronaphthalene	13.245	162	264029	4.851	ng/ul	99
45) 2-Nitroaniline	13.445	65	57169	4.038	ng/ul	94
47) Dimethylphthalate	13.834	163	327019	4.889	ng/ul	99
48) 2,6-Dinitrotoluene	13.951	165	52394	3.994	ng/ul	92
50) Acenaphthylene	14.098	152	408644	4.863	ng/ul	99
51) 3-Nitroaniline	14.292	138	51968	3.408	ng/ul	94
52) Acenaphthene	14.445	153	286139	4.838	ng/ul	98
53) 2,4-Dinitrophenol	14.498	184	33445	4.090	ng/ul	95
55) 4-Nitrophenol	14.616	109	38900	4.099	ng/ul	96
56) Dibenzofuran	14.786	168	397395	4.872	ng/ul	99
57) 2,4-Dinitrotoluene	14.751	165	79796	4.087	ng/ul	96
58) 2,3,4,6-Tetrachlorophenol	15.028	232	64046	4.079	ng/ul	99
59) Diethylphthalate	15.228	149	304374	4.597	ng/ul	100
61) Fluorene	15.451	166	322340	4.834	ng/ul	99
62) 4-Chlorophenyl-phenyle...	15.451	204	156652	4.863	ng/ul	99
63) 4-Nitroaniline	15.475	138	47360	3.156	ng/ul	93
66) 4,6-Dinitro-2-methylph...	15.533	198	63433	5.119	ng/ul#	86
67) N-Nitrosodiphenylamine	15.663	169	258598	4.716	ng/ul	99
68) 4-Bromophenyl-phenylether	16.363	248	91027	4.593	ng/ul	96
69) Hexachlorobenzene	16.480	284	114906	4.773	ng/ul	97
70) Atrazine	16.645	200	92423	4.655	ng/ul	98
71) Pentachlorophenol	16.839	266	66709	4.415	ng/ul	97
72) Phenanthrene	17.233	178	492866	4.793	ng/ul	100
74) Anthracene	17.328	178	475684	4.592	ng/ul	99
75) 1,2,3,4-Tetrachloroben...	13.169	216	121536	4.487	ng/uL	99
76) Pentachlorobenzene	14.704	250	126432	4.464	ng/uL	99
77) Carbazole	17.604	167	403833	4.293	ng/ul	100
78) Di-n-butylphthalate	18.204	149	464457	4.239	ng/ul	100
80) Fluoranthene	19.316	202	530672	5.399	ng/ul	96
82) Pyrene	19.698	202	599095	5.657	ng/ul	99
83) Butylbenzylphthalate	20.651	149	179098	4.194	ng/ul	93
84) 3,3'-Dichlorobenzidine	21.551	252	114928	3.415	ng/ul	99
85) Benzo(a)anthracene	21.627	228	529515	4.810	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.568	149	250687	3.912	ng/ul	99
87) Chrysene	21.692	228	504422	4.878	ng/ul	99
89) Di-n-octyl phthalate	22.868	149	321548	3.664	ng/ul	100
90) Benzo(b)fluoranthene	23.951	252	441038	4.932	ng/ul	98
91) Benzo(k)fluoranthene	24.021	252	459109	5.058	ng/ul	99
93) Benzo(a)pyrene	24.868	252	397094	4.696	ng/ul	100
94) Indeno(1,2,3-cd)pyrene	28.862	276	432779	3.871	ng/ul	99
95) Dibenzo(a,h)anthracene	28.945	278	353955	3.899	ng/ul	98
96) Benzo(g,h,i)perylene	30.050	276	336987	3.884	ng/ul	100

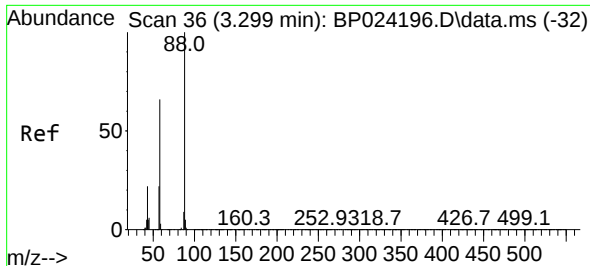
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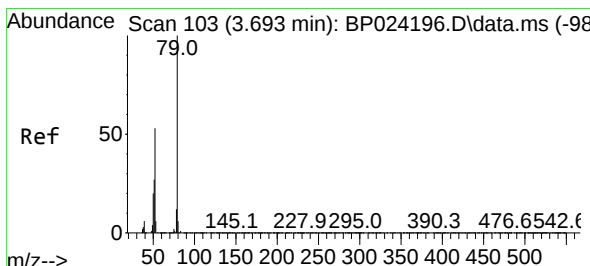
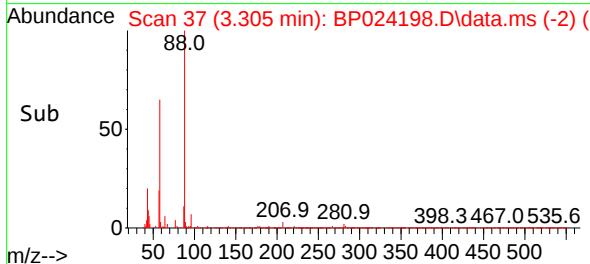
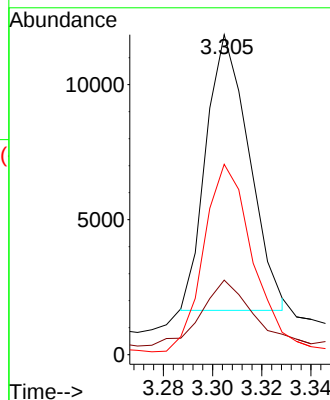
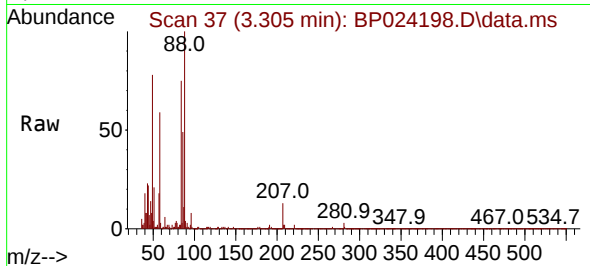




#2
1,4-Dioxane
Concen: 1.292 ng/uL m
RT: 3.305 min Scan# 31
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

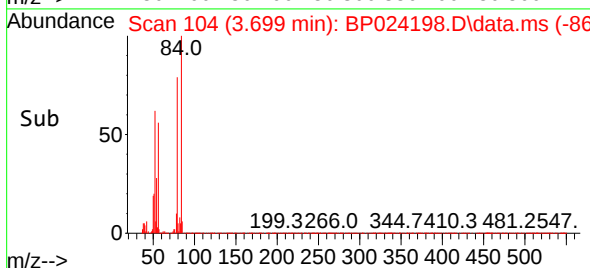
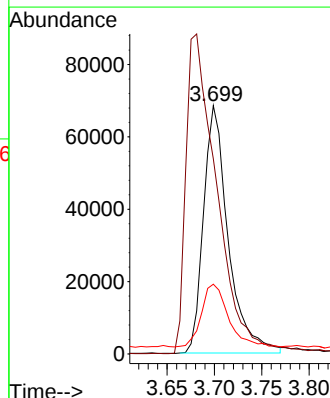
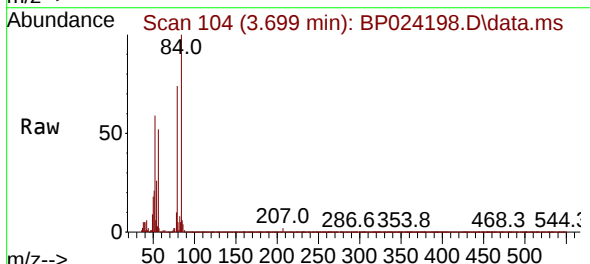
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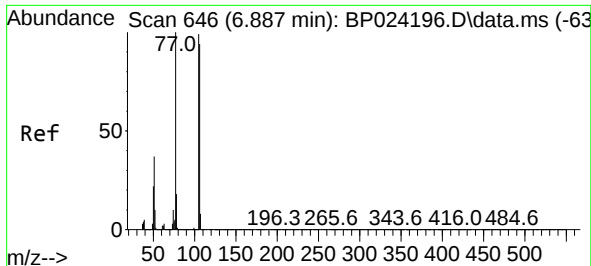
Tgt Ion:	88	Resp:	12409
Ion	Ratio	Lower	Upper
88	100		
43	23.3	17.6	26.4
58	59.5	48.8	73.2



#5
Pyridine
Concen: 4.678 ng/uL
RT: 3.699 min Scan# 104
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:	79	Resp:	124119
Ion	Ratio	Lower	Upper
79	100		
52	78.6	48.8	73.2#
51	28.1	21.9	32.9

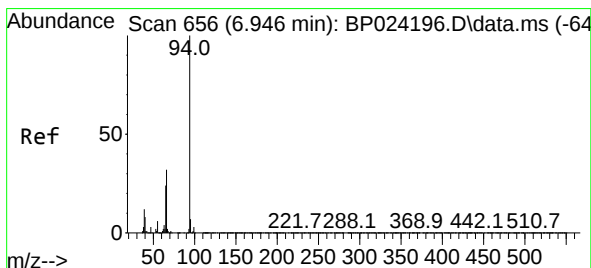
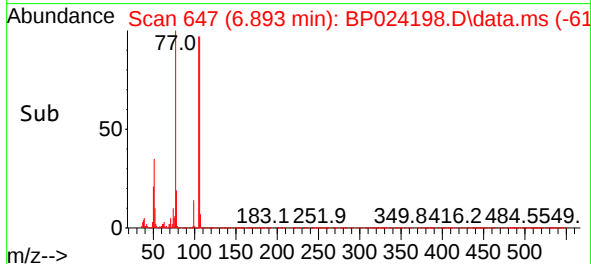
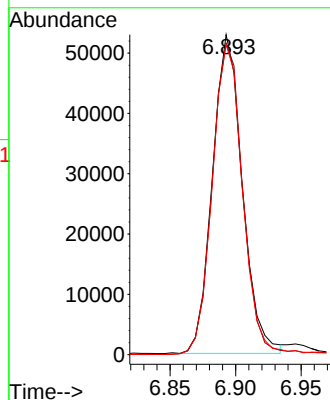
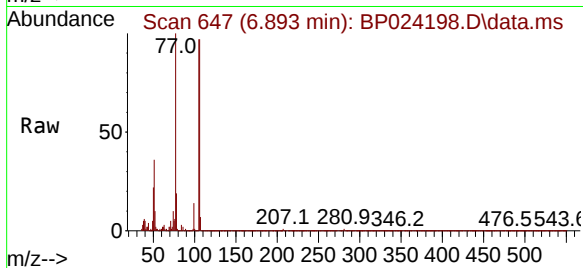




#6
Benzaldehyde
Concen: 5.033 ng/ul
RT: 6.893 min Scan# 647
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

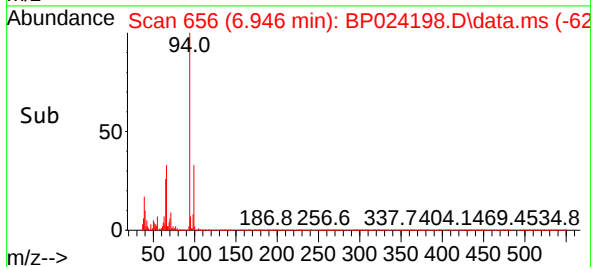
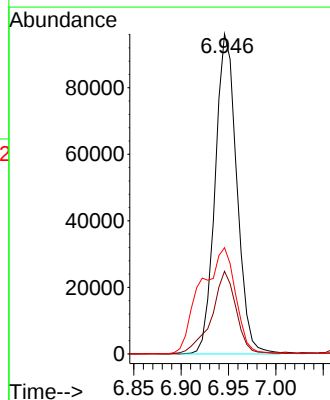
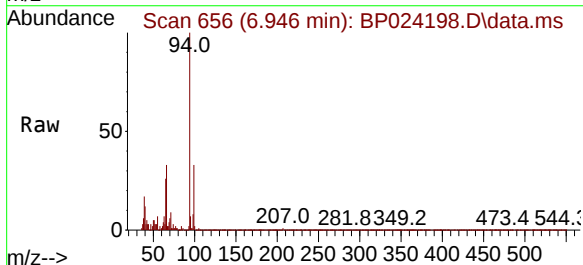
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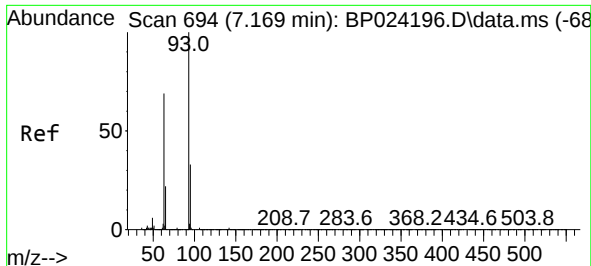
Tgt Ion: 77 Resp: 83544
Ion Ratio Lower Upper
77 100
105 97.3 80.5 120.7
106 96.9 77.7 116.5



#8
Phenol
Concen: 4.560 ng/ul
RT: 6.946 min Scan# 656
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion: 94 Resp: 152562
Ion Ratio Lower Upper
94 100
65 25.8 19.6 29.4
66 33.2 24.9 37.3

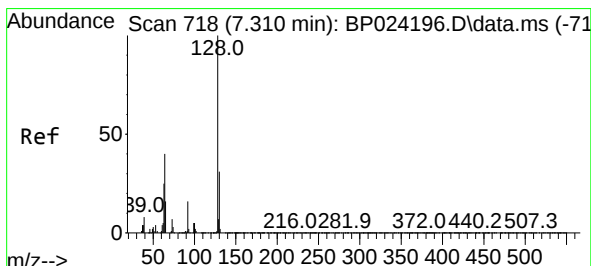
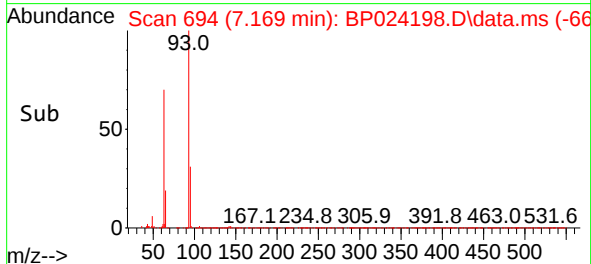
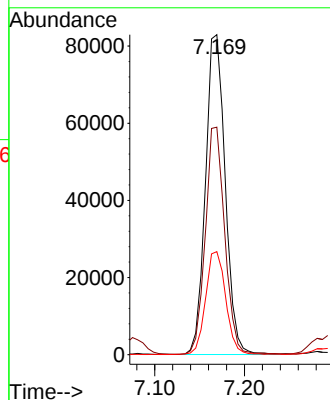
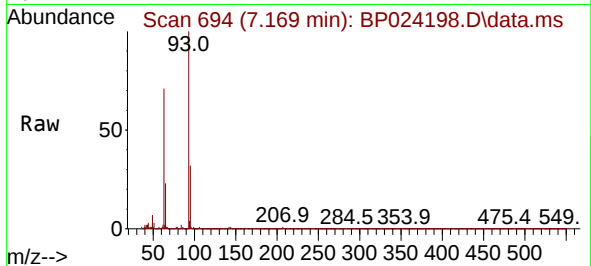




#10
Bis(2-Chloroethyl)ether
Concen: 4.984 ng/ul
RT: 7.169 min Scan# 694
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

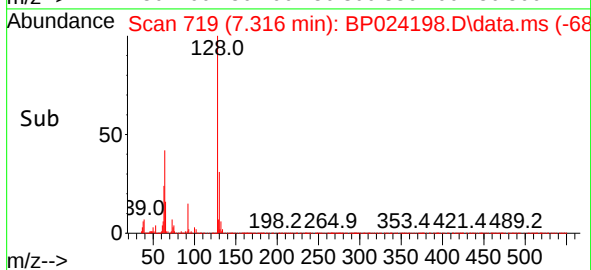
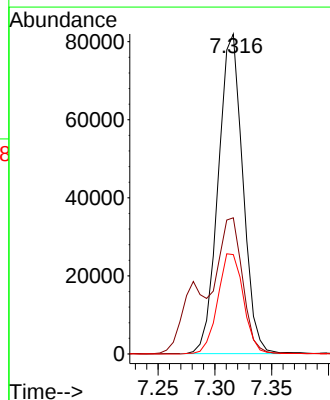
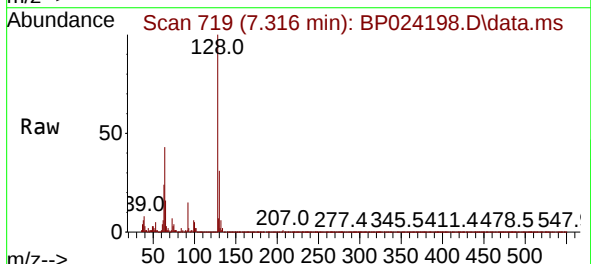
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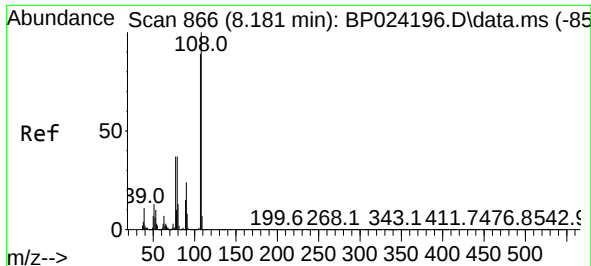
Tgt Ion:	93	Resp:	126853
Ion	Ratio	Lower	Upper
93	100		
63	71.1	54.2	81.2
95	32.2	25.8	38.6



#12
2-Chlorophenol
Concen: 4.788 ng/ul
RT: 7.316 min Scan# 719
Delta R.T. 0.006 min
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Tgt Ion:	128	Resp:	123402
Ion	Ratio	Lower	Upper
128	100		
64	42.6	33.4	50.0
130	31.1	26.5	39.7

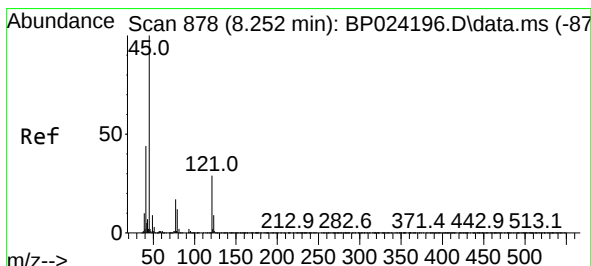
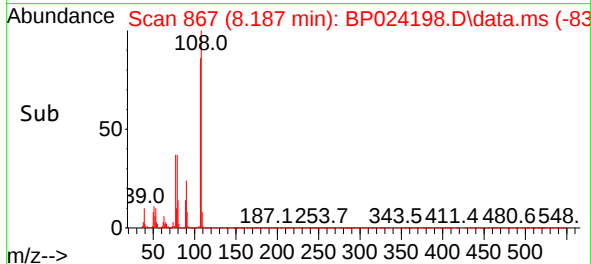
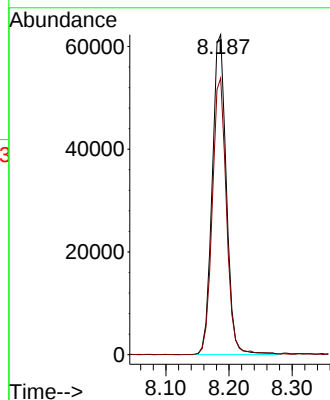
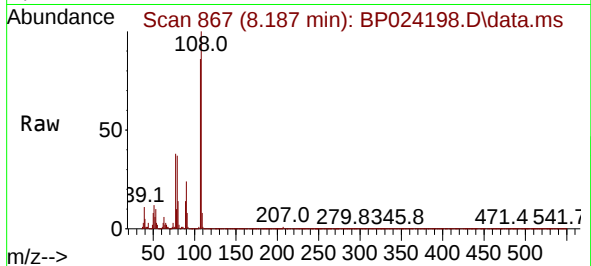




#13
2-Methylphenol
Concen: 3.953 ng/ul
RT: 8.187 min Scan# 866
Delta R.T. 0.006 min
Lab File: BP024198.D
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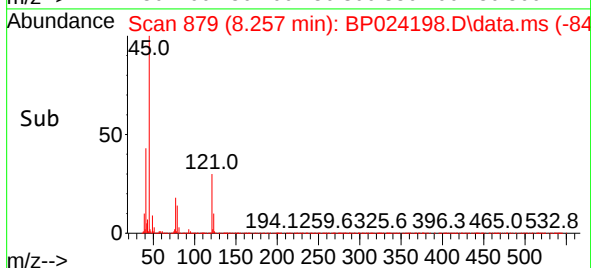
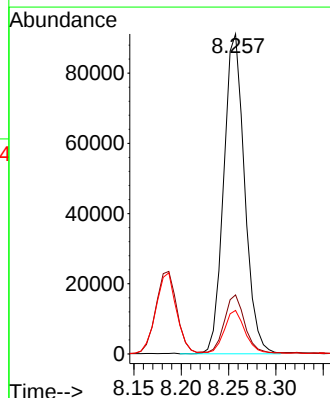
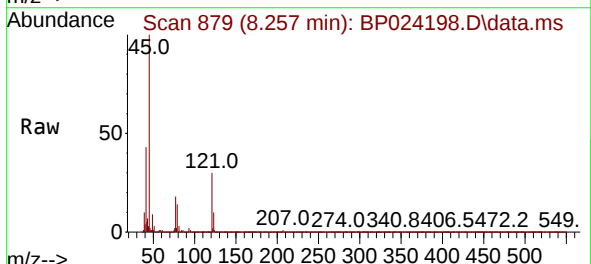
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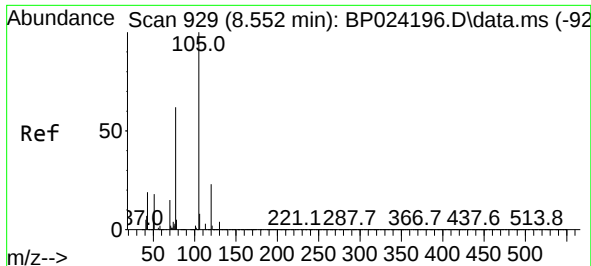
Tgt Ion:108 Resp: 96633
Ion Ratio Lower Upper
108 100
107 86.4 71.2 106.8



#14
2,2'-oxybis(1-Chloropropane)
Concen: 5.227 ng/ul
RT: 8.257 min Scan# 879
Delta R.T. 0.006 min
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Tgt Ion: 45 Resp: 139528
Ion Ratio Lower Upper
45 100
77 18.5 14.5 21.7
79 13.6 10.9 16.3

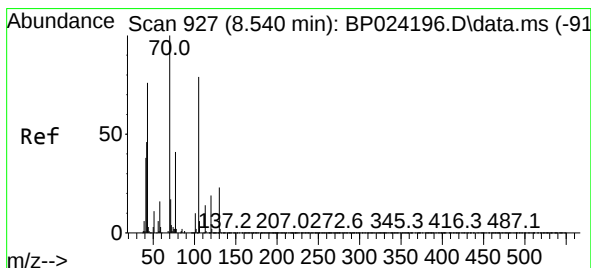
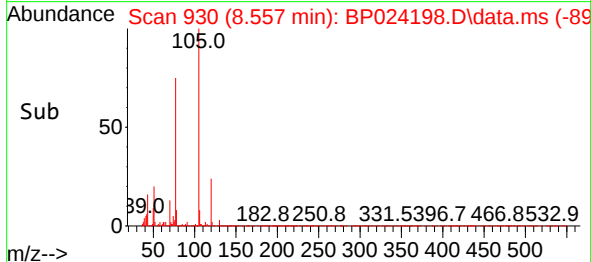
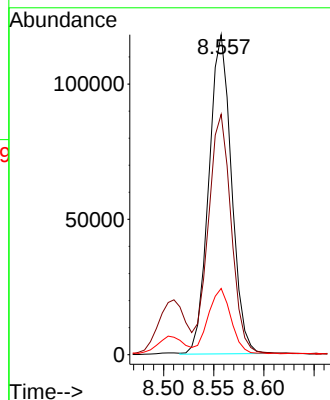
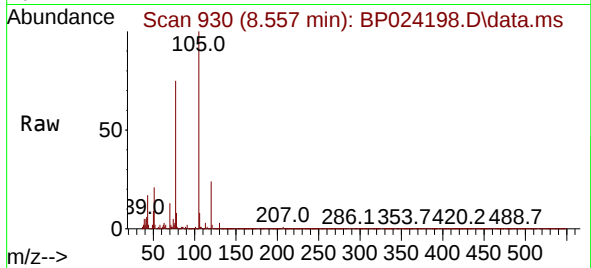




#16
Acetophenone
Concen: 4.710 ng/ul
RT: 8.557 min Scan# 911
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

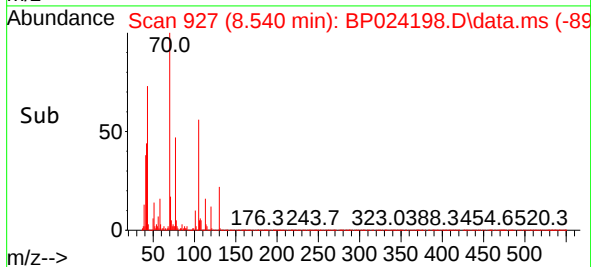
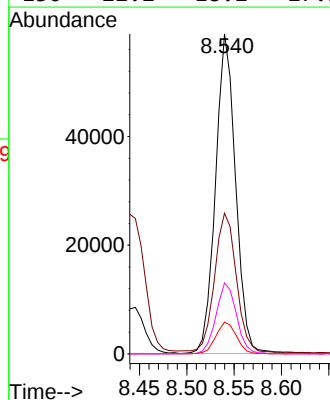
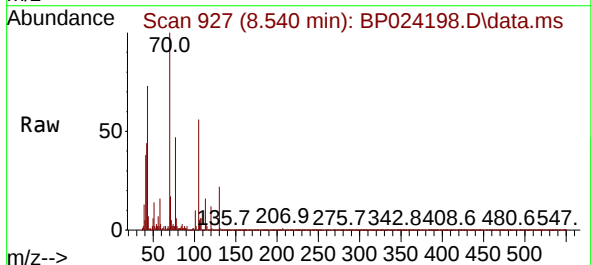
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

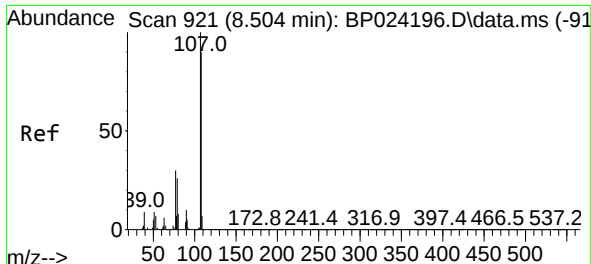
Tgt Ion:105 Resp: 185302
Ion Ratio Lower Upper
105 100
77 75.1 58.3 87.5
51 20.7 16.1 24.1



#17
N-Nitroso-di-n-propylamine
Concen: 4.687 ng/ul
RT: 8.540 min Scan# 927
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion: 70 Resp: 86473
Ion Ratio Lower Upper
70 100
42 44.0 36.2 54.2
101 10.0 8.6 12.8
130 22.2 18.2 27.2

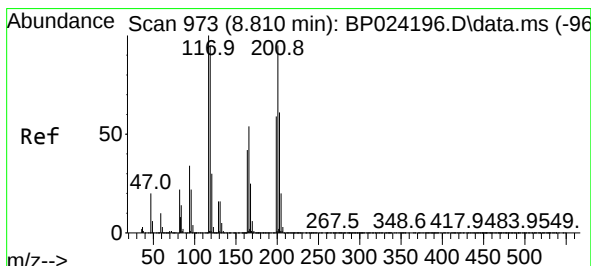
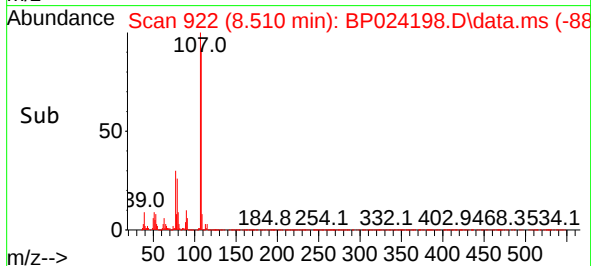
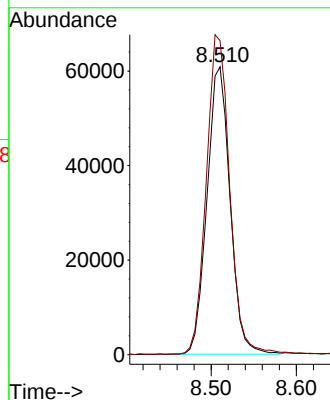
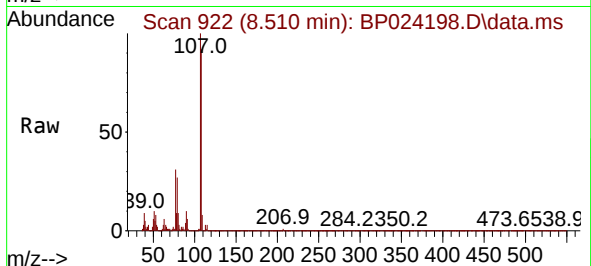




#18
4-Methylphenol
Concen: 4.229 ng/ul
RT: 8.510 min Scan# 911
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

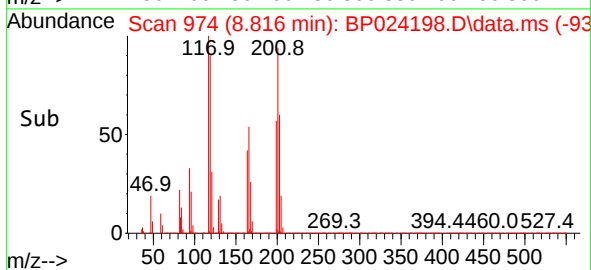
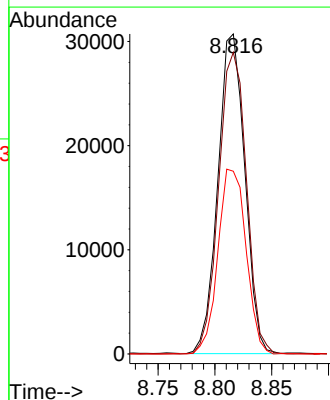
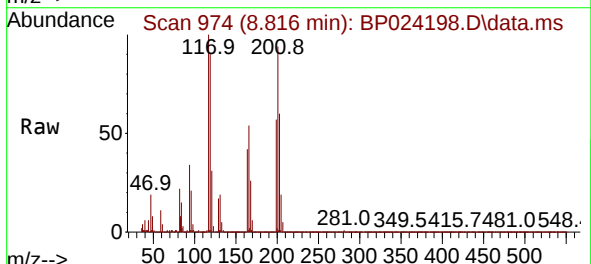
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

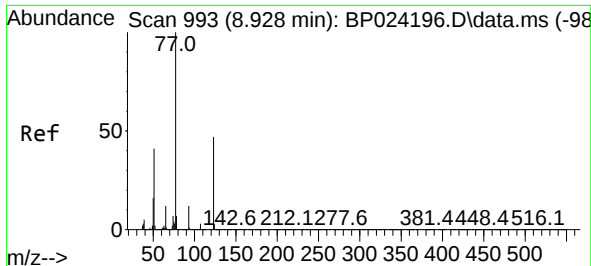
Tgt Ion:108 Resp: 114571
Ion Ratio Lower Upper
108 100
107 109.1 88.8 133.2



#19
Hexachloroethane
Concen: 4.932 ng/ul
RT: 8.816 min Scan# 974
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:117 Resp: 50681
Ion Ratio Lower Upper
117 100
201 94.3 79.2 118.8
199 57.1 48.6 73.0

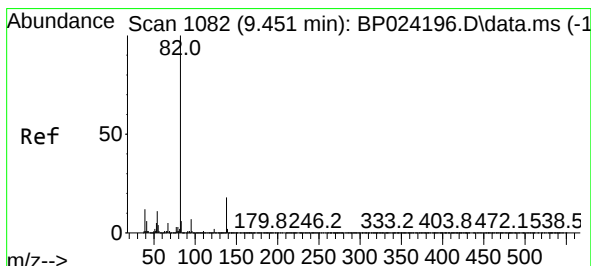
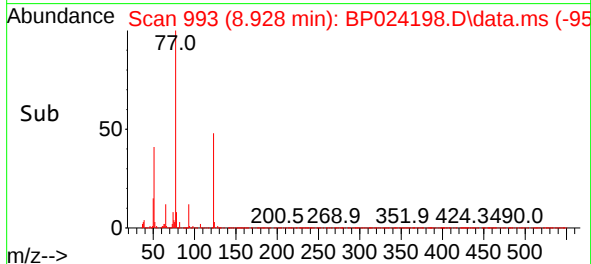
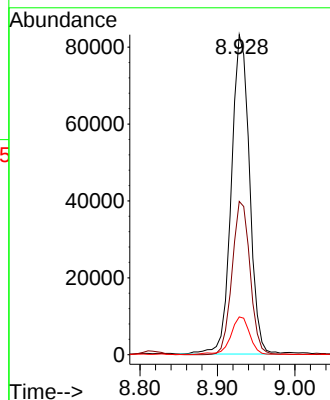
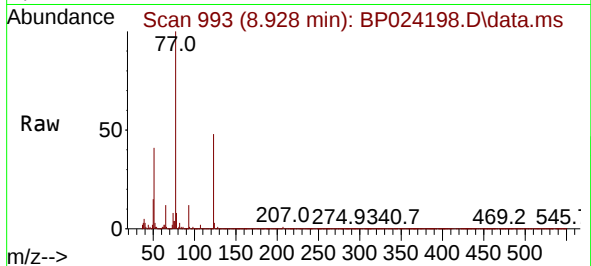




#22
Nitrobenzene
Concen: 4.936 ng/ul
RT: 8.928 min Scan# 993
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

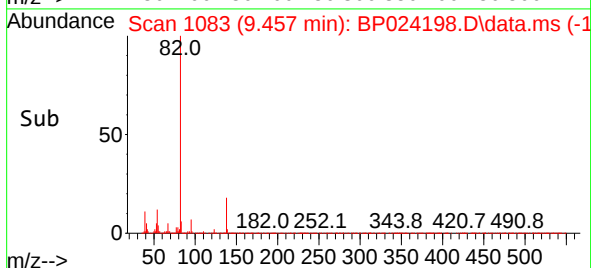
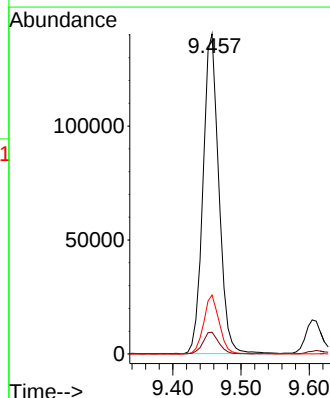
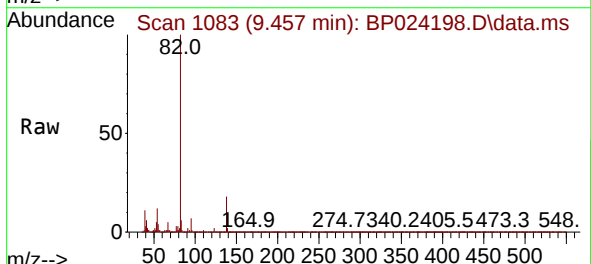
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

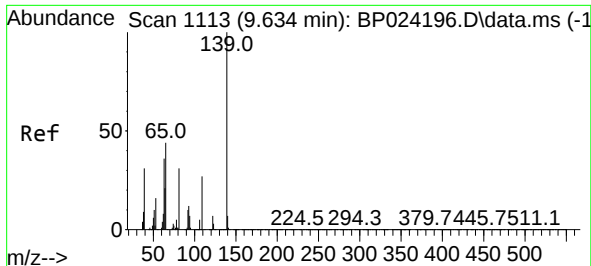
Tgt Ion: 77 Resp: 135720
Ion Ratio Lower Upper
77 100
123 47.9 39.7 59.5
65 11.8 9.8 14.8



#23
Isophorone
Concen: 4.387 ng/ul
RT: 9.457 min Scan# 1083
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion: 82 Resp: 225974
Ion Ratio Lower Upper
82 100
95 6.8 5.3 7.9
138 18.4 15.4 23.0

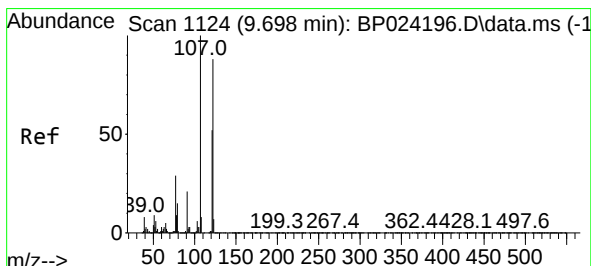
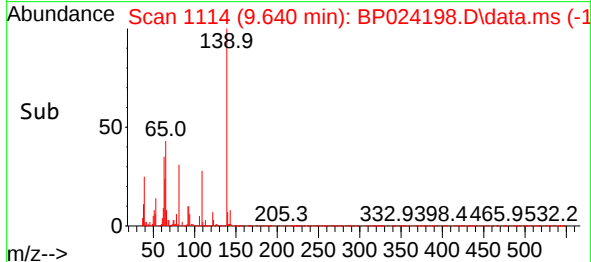
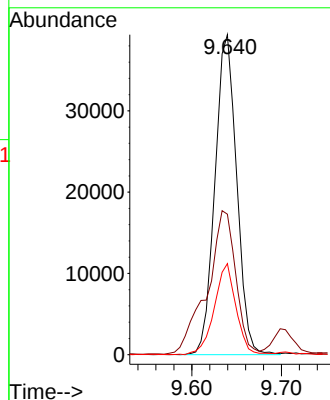
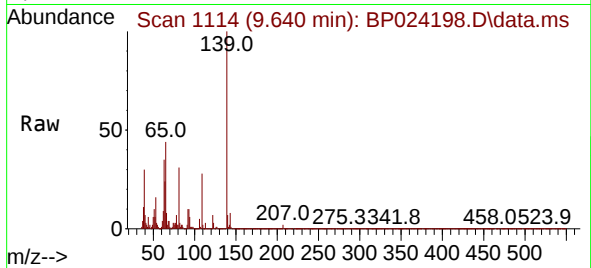




#25
2-Nitrophenol
Concen: 4.682 ng/ul
RT: 9.640 min Scan# 1113
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

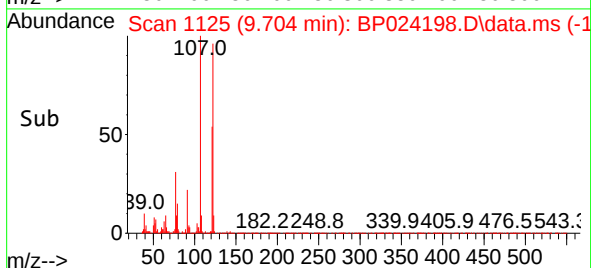
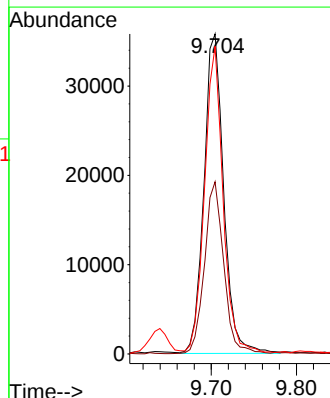
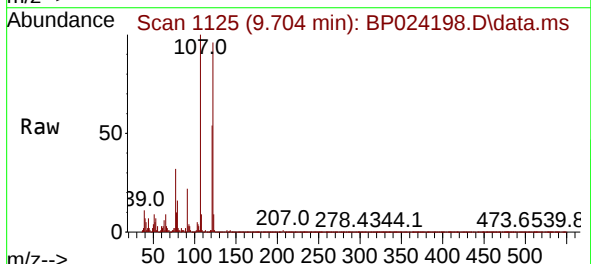
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

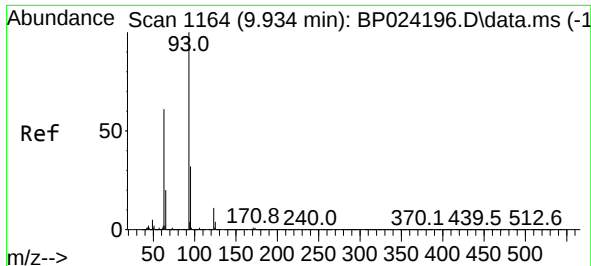
Tgt Ion:	139	Resp:	66191
Ion Ratio	Lower	Upper	
139	100		
65	43.9	34.1	51.1
109	28.4	20.1	30.1



#26
2,4-Dimethylphenol
Concen: 2.277 ng/ul
RT: 9.704 min Scan# 1125
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:	107	Resp:	57700
Ion Ratio	Lower	Upper	
107	100		
121	53.8	40.6	60.8
122	96.2	71.4	107.0

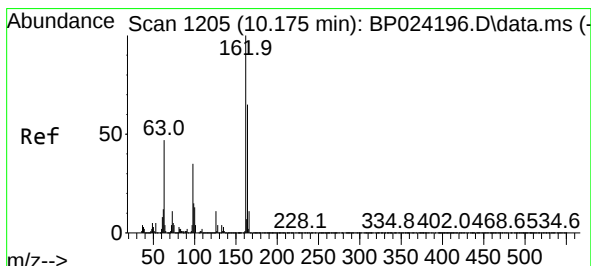
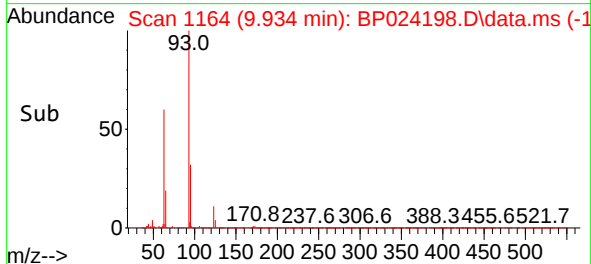
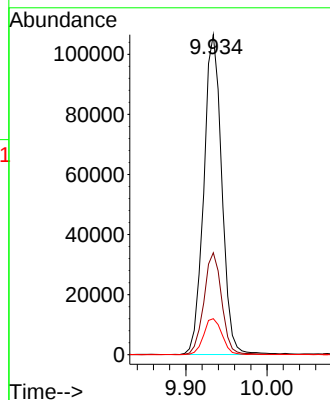
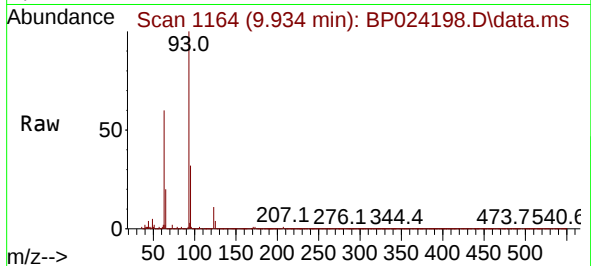




#27
Bis(2-Chloroethoxy)methane
Concen: 5.003 ng/ul
RT: 9.934 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

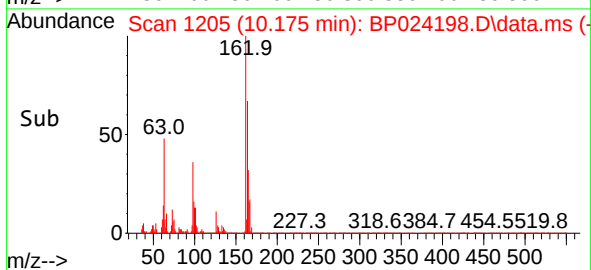
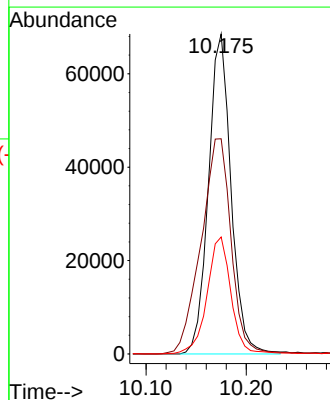
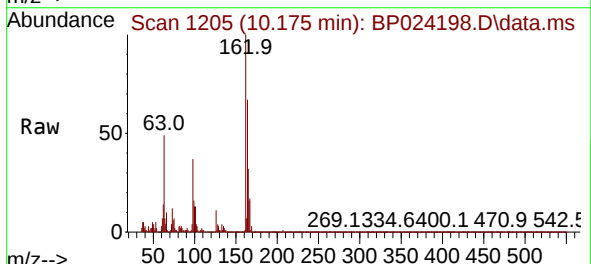
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

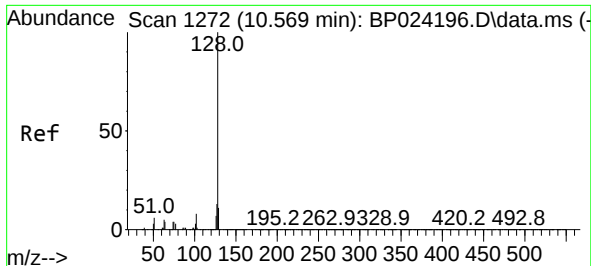
Tgt Ion: 93 Resp: 163935
Ion Ratio Lower Upper
93 100
95 31.9 25.3 37.9
123 11.3 9.5 14.3



#29
2,4-Dichlorophenol
Concen: 4.581 ng/ul
RT: 10.175 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion: 162 Resp: 107393
Ion Ratio Lower Upper
162 100
164 67.3 52.6 79.0
98 36.5 28.5 42.7

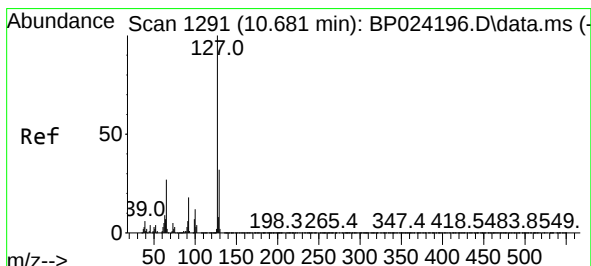
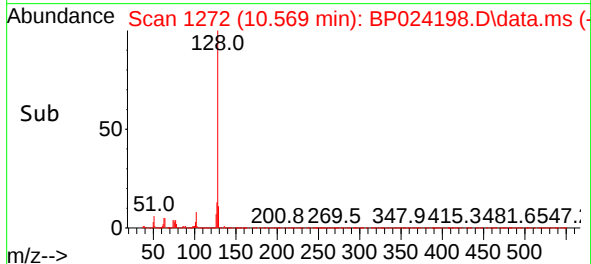
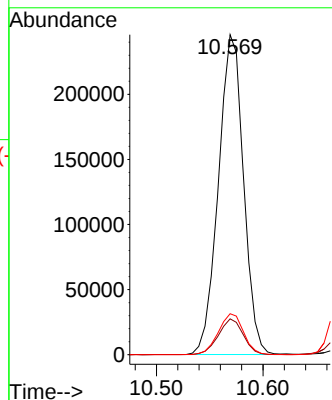
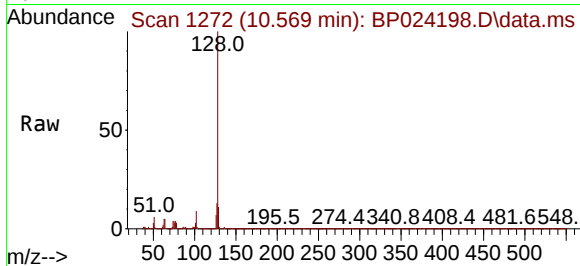




#30
Naphthalene
Concen: 4.900 ng/ul
RT: 10.569 min Scan# 1272
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

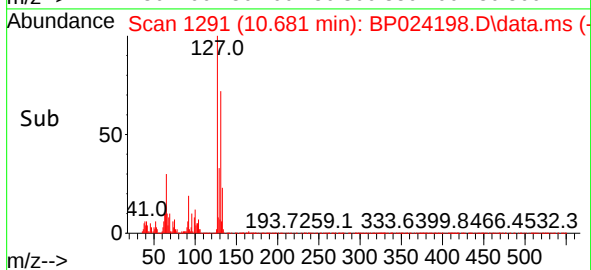
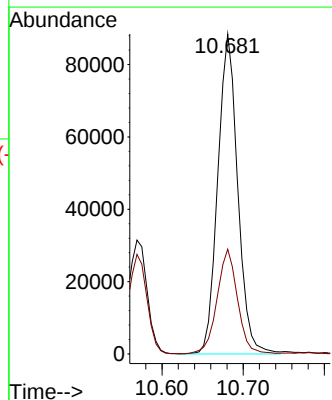
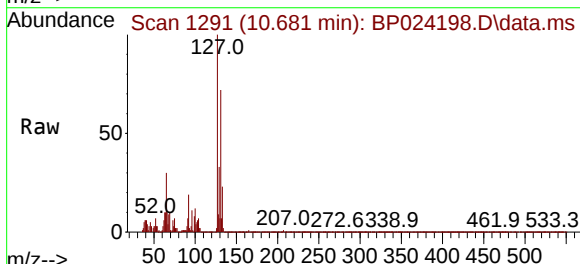
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

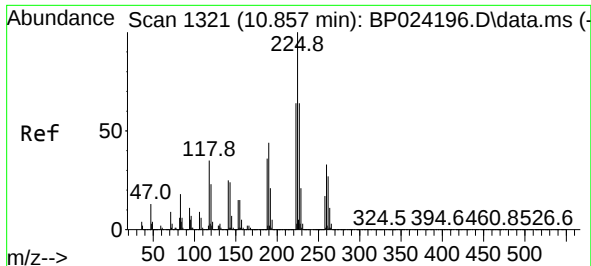
Tgt Ion:128 Resp: 401788
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 12.8 10.3 15.5



#32
4-Chloroaniline
Concen: 4.520 ng/ul
RT: 10.681 min Scan# 1291
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:127 Resp: 151273
Ion Ratio Lower Upper
127 100
129 32.8 25.5 38.3

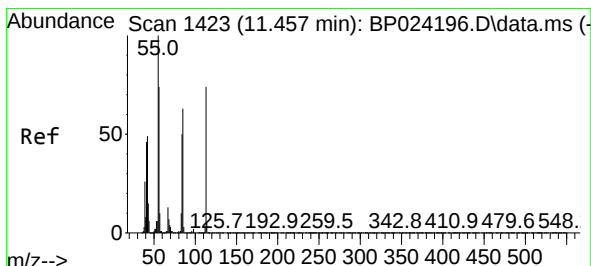
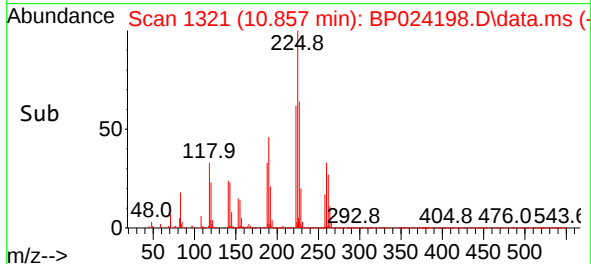
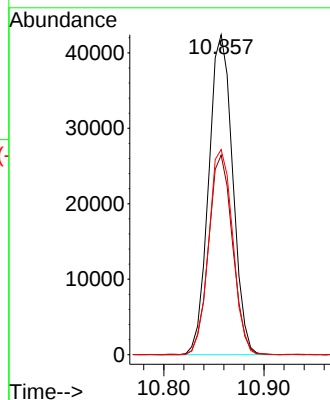
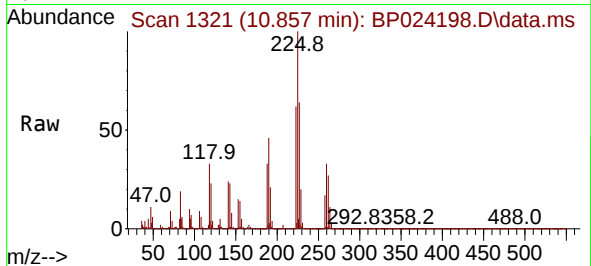




#33
Hexachlorobutadiene
Concen: 4.917 ng/ul
RT: 10.857 min Scan# 1321
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

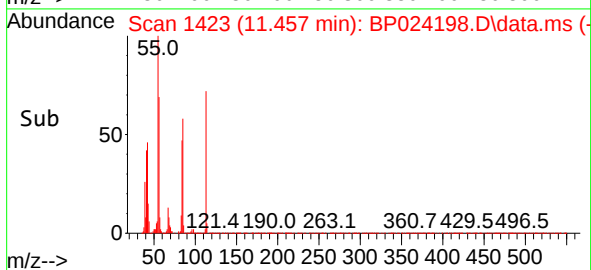
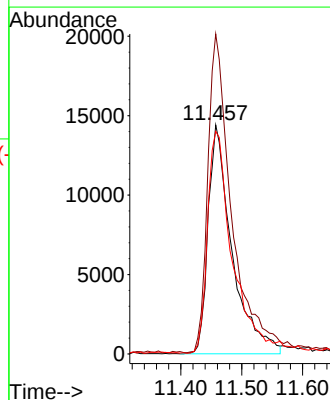
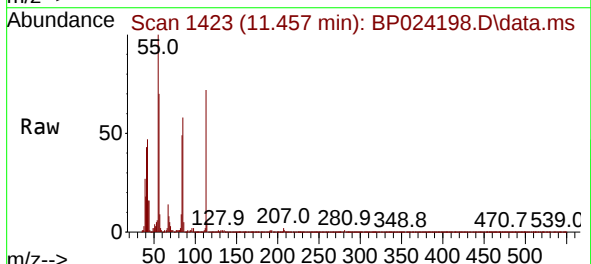
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

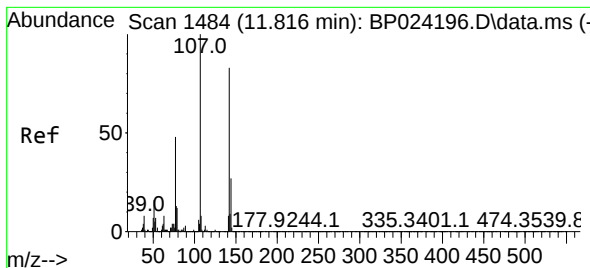
Tgt Ion:225 Resp: 70579
Ion Ratio Lower Upper
225 100
223 62.3 50.2 75.4
227 64.1 52.2 78.2



#34
Caprolactam
Concen: 4.421 ng/ul
RT: 11.457 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:113 Resp: 39362
Ion Ratio Lower Upper
113 100
55 139.8 104.7 157.1
56 97.2 79.8 119.6





#35

4-Chloro-3-methylphenol

Concen: 3.901 ng/ul

RT: 11.816 min Scan# 1484

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

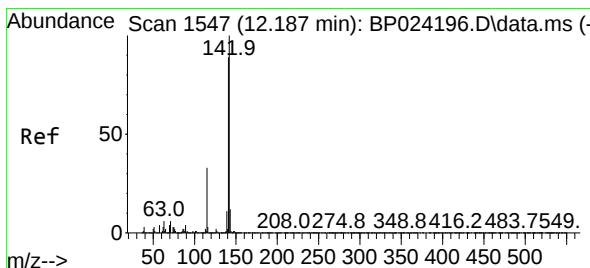
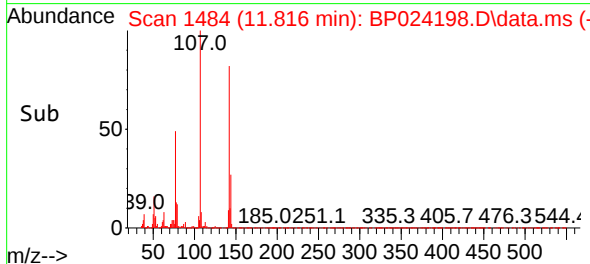
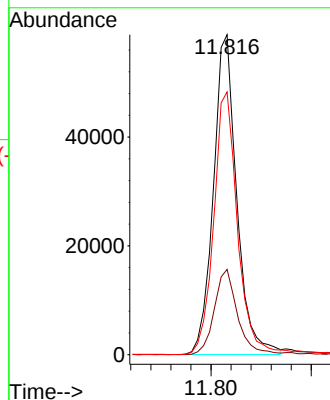
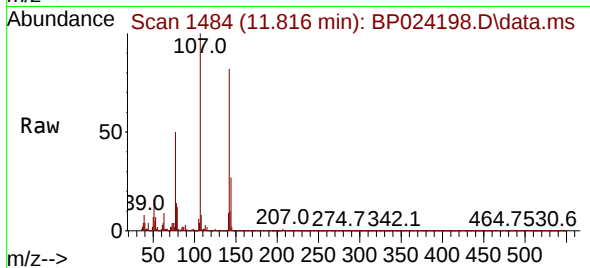
Tgt Ion:107 Resp: 95147

Ion Ratio Lower Upper

107 100

144 26.7 21.8 32.6

142 82.1 67.8 101.6



#36

2-Methylnaphthalene

Concen: 4.743 ng/ul

RT: 12.187 min Scan# 1547

Delta R.T. 0.000 min

Lab File: BP024198.D

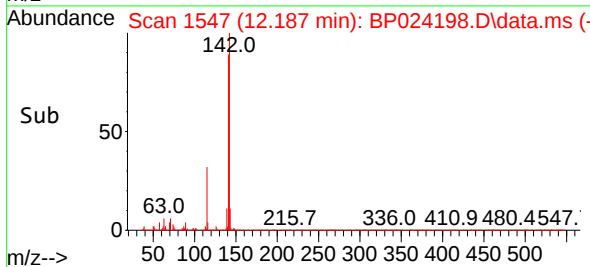
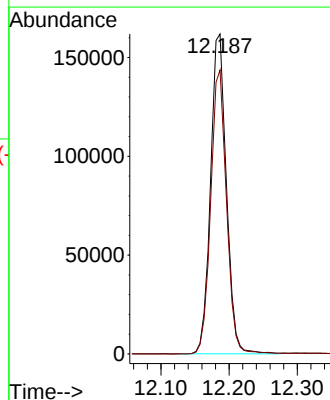
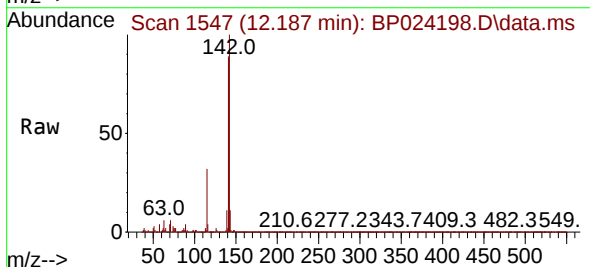
Acq: 21 Mar 2025 10:28

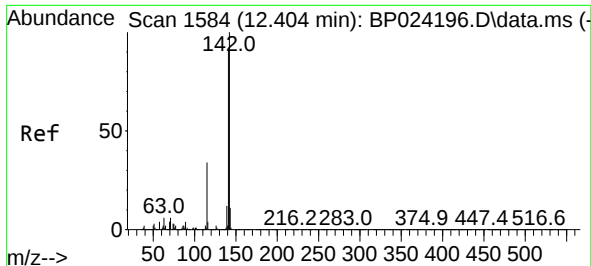
Tgt Ion:142 Resp: 262388

Ion Ratio Lower Upper

142 100

141 88.8 71.3 106.9

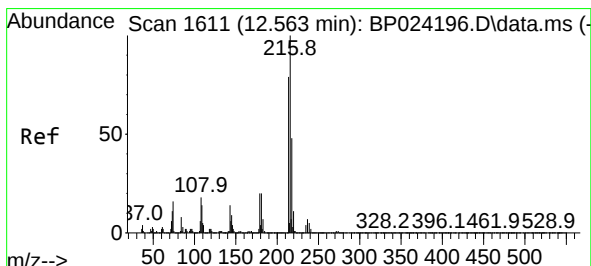
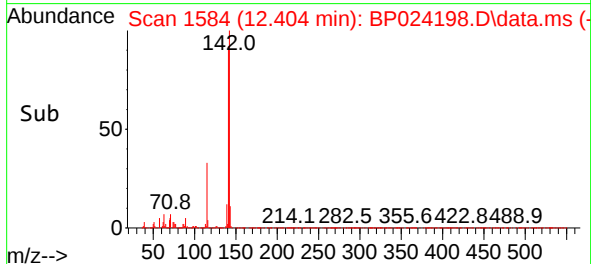
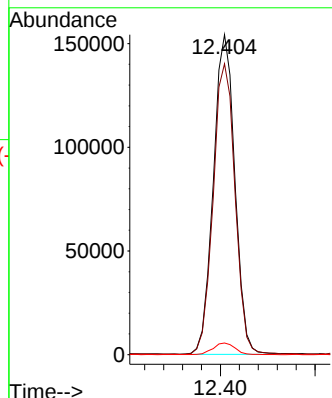
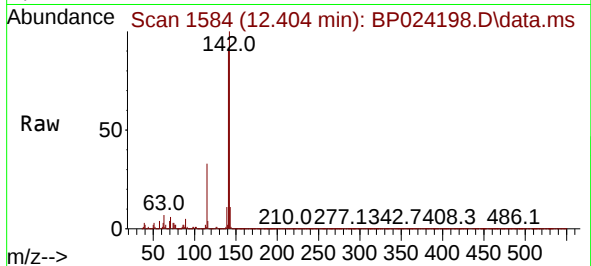




#37
1-Methylnaphthalene
Concen: 4.454 ng/ul
RT: 12.404 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

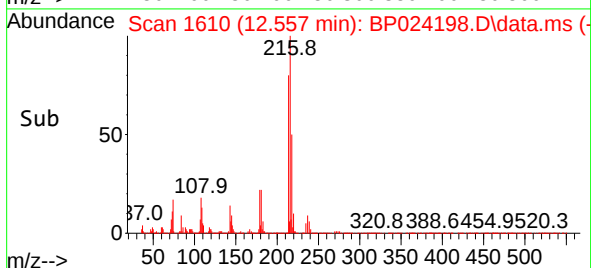
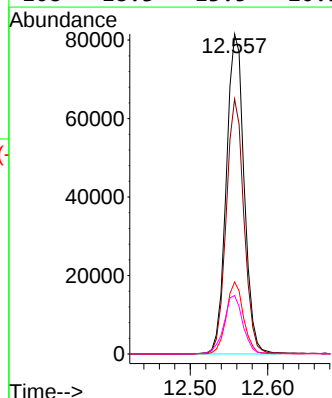
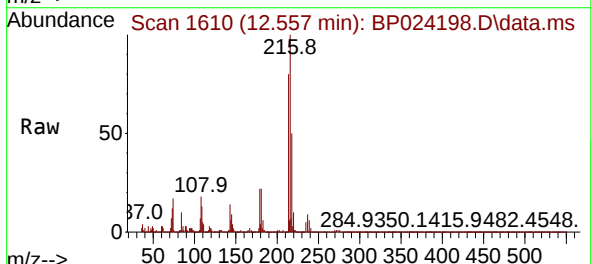
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

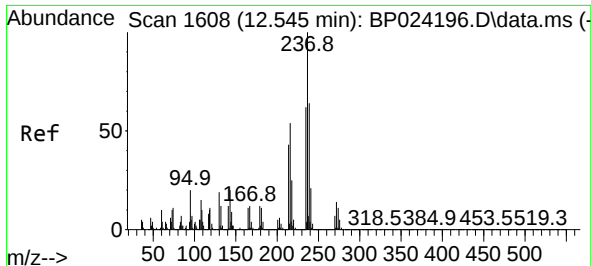
Tgt Ion:142 Resp: 243577
Ion Ratio Lower Upper
142 100
141 90.9 72.4 108.6
116 3.6 2.8 4.2



#39
1,2,4,5-Tetrachlorobenzene
Concen: 4.685 ng/ul
RT: 12.557 min Scan# 1610
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:216 Resp: 130635
Ion Ratio Lower Upper
216 100
214 79.6 62.6 93.8
179 22.5 16.2 24.2
108 18.3 13.5 20.3

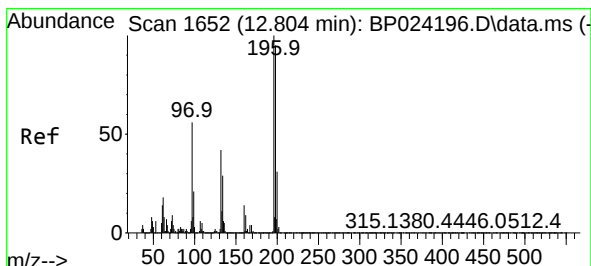
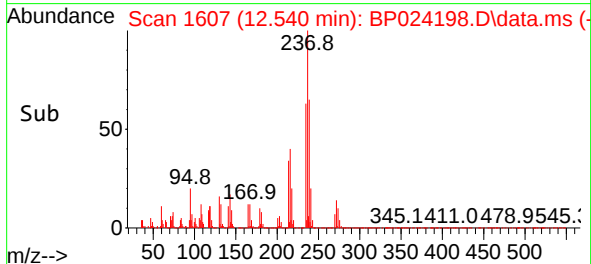
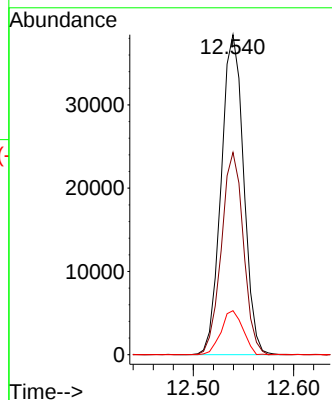
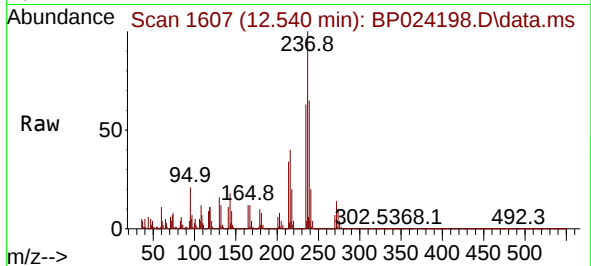




#40
Hexachlorocyclopentadiene
Concen: 4.123 ng/ul
RT: 12.540 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

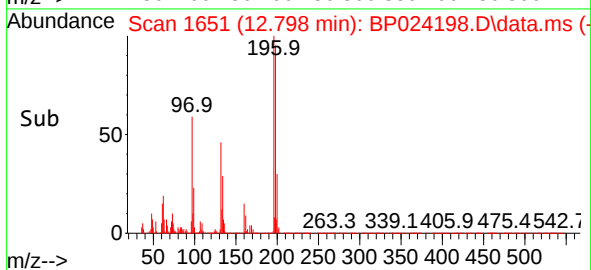
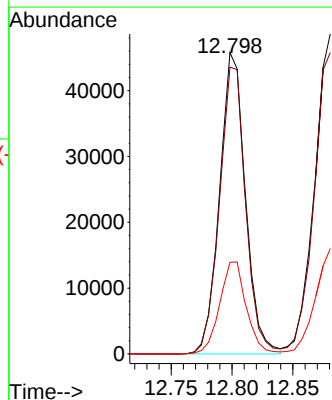
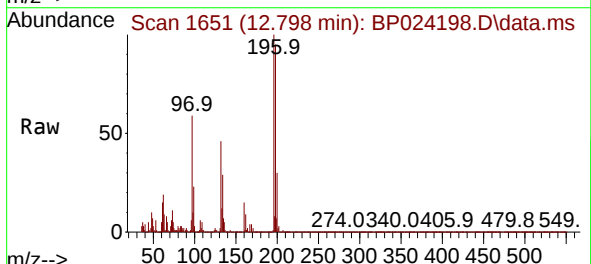
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

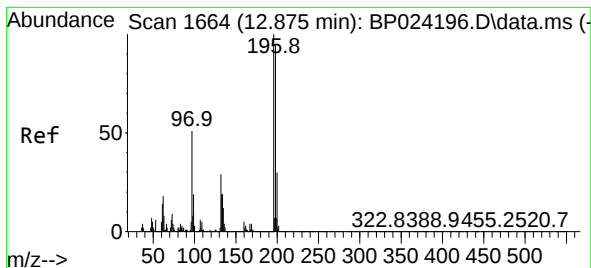
Tgt Ion:237 Resp: 59755
Ion Ratio Lower Upper
237 100
235 63.2 49.3 73.9
272 14.5 11.4 17.2



#41
2,4,6-Trichlorophenol
Concen: 3.856 ng/ul
RT: 12.798 min Scan# 1651
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:196 Resp: 67644
Ion Ratio Lower Upper
196 100
198 95.2 77.0 115.6
200 30.4 24.8 37.2





#42

2,4,5-Trichlorophenol

Concen: 3.855 ng/ul

RT: 12.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

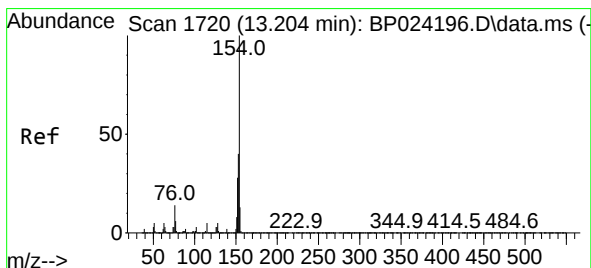
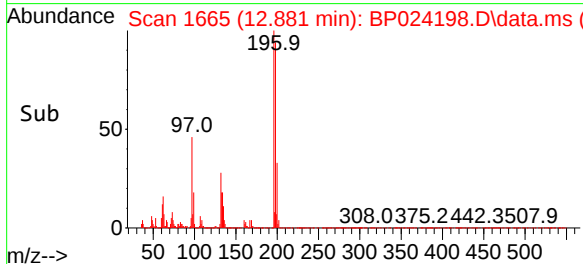
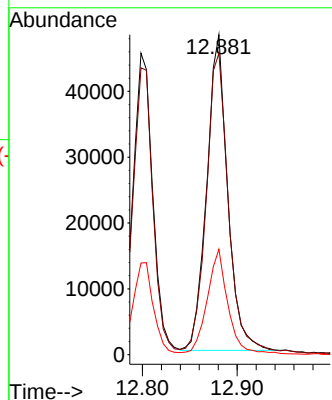
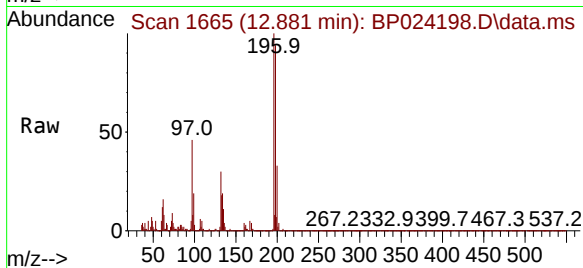
Tgt Ion:196 Resp: 73612

Ion Ratio Lower Upper

196 100

198 94.2 74.7 112.1

200 33.0 24.2 36.2



#43

1,1'-Biphenyl

Concen: 4.969 ng/ul

RT: 13.204 min Scan# 1720

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

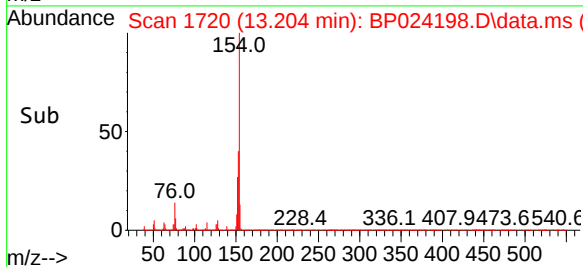
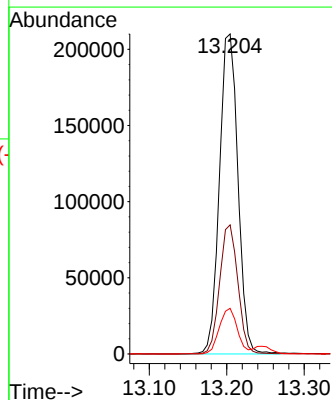
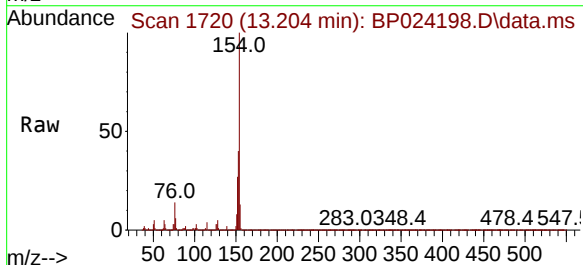
Tgt Ion:154 Resp: 348622

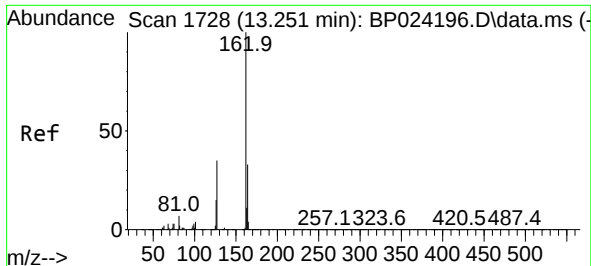
Ion Ratio Lower Upper

154 100

153 40.3 31.9 47.9

76 14.2 10.0 15.0

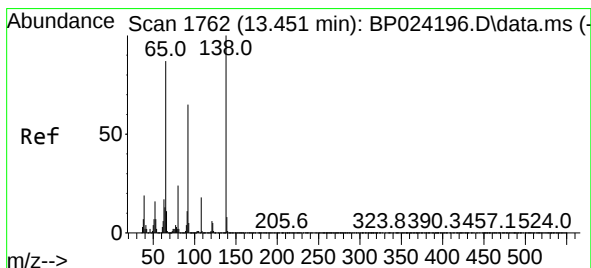
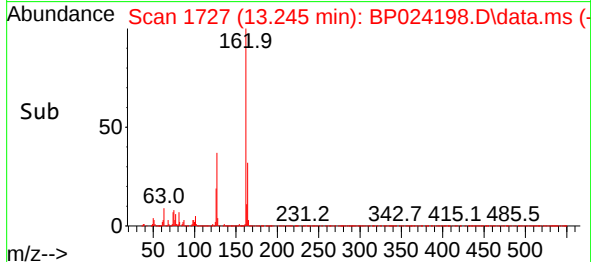
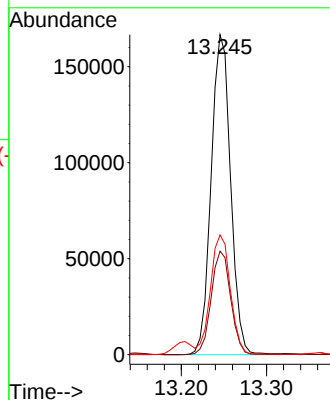
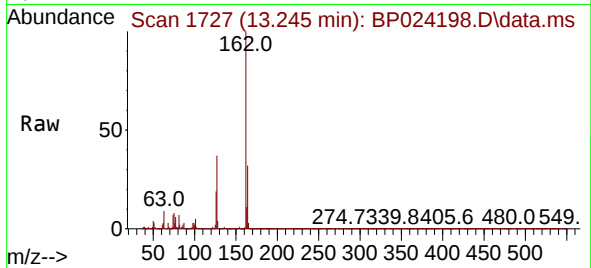




#44
2-Chloronaphthalene
Concen: 4.851 ng/ul
RT: 13.245 min Scan# 1728
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

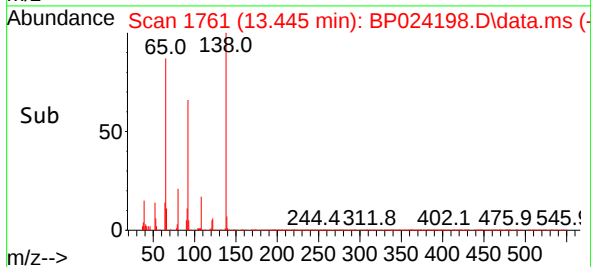
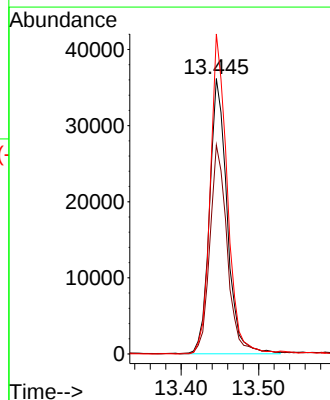
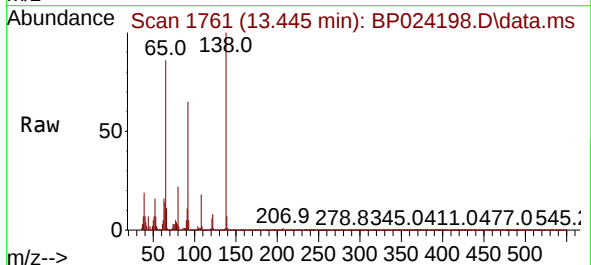
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT1-2025-02

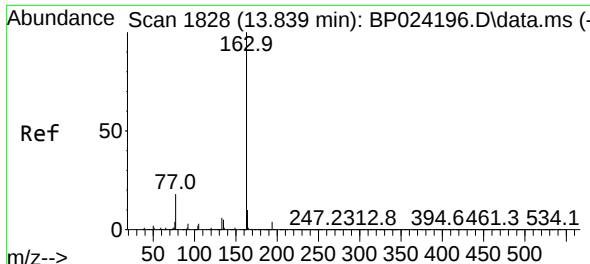
Tgt Ion:162 Resp: 264029
Ion Ratio Lower Upper
162 100
164 32.4 26.3 39.5
127 37.4 30.5 45.7



#45
2-Nitroaniline
Concen: 4.038 ng/ul
RT: 13.445 min Scan# 1761
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion: 65 Resp: 57169
Ion Ratio Lower Upper
65 100
92 75.9 62.1 93.1
138 116.2 100.5 150.7

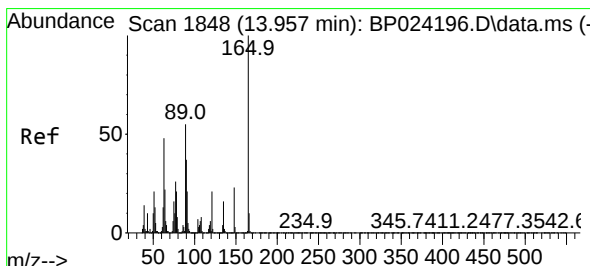
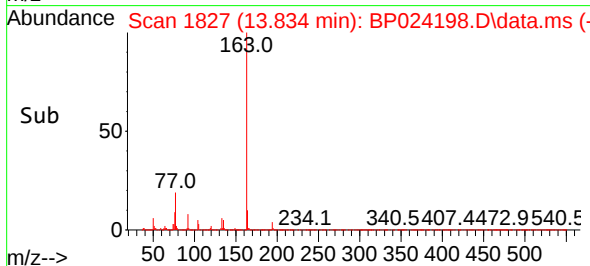
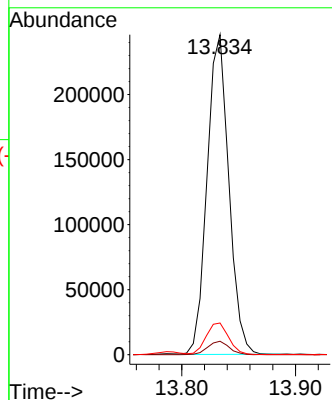
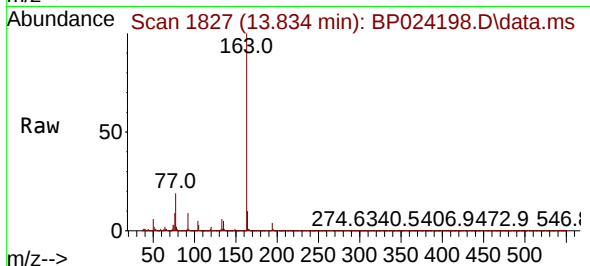




#47
Dimethylphthalate
Concen: 4.889 ng/ul
RT: 13.834 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

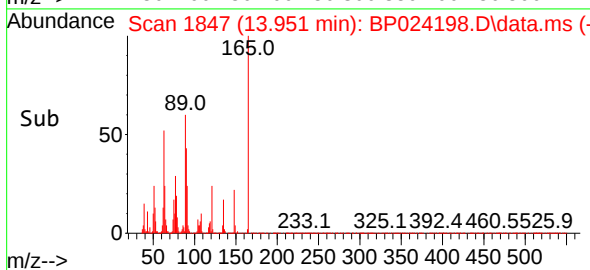
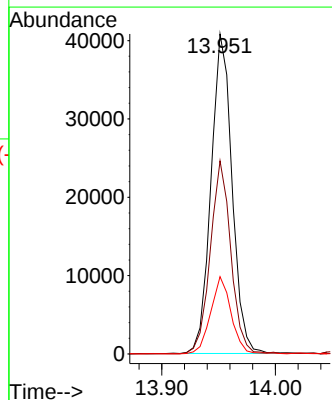
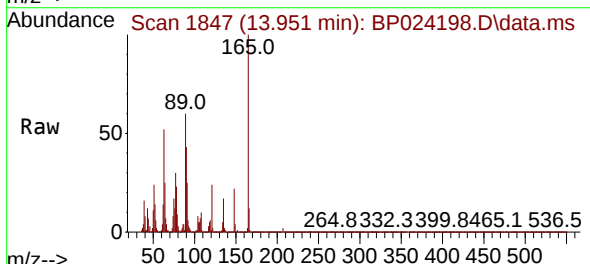
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

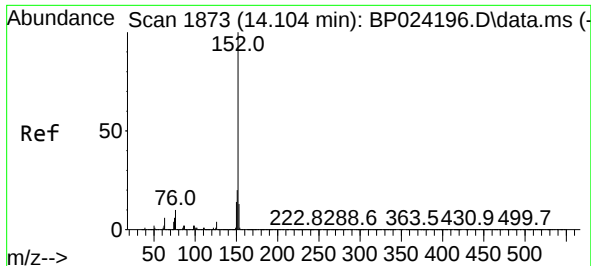
Tgt Ion:163 Resp: 327019
Ion Ratio Lower Upper
163 100
194 4.2 3.4 5.2
164 9.9 8.2 12.2



#48
2,6-Dinitrotoluene
Concen: 3.994 ng/ul
RT: 13.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:165 Resp: 52394
Ion Ratio Lower Upper
165 100
89 60.3 42.6 63.8
121 24.2 17.7 26.5

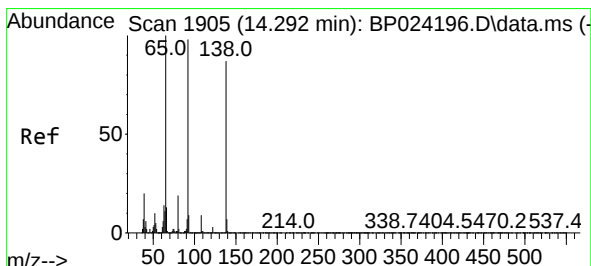
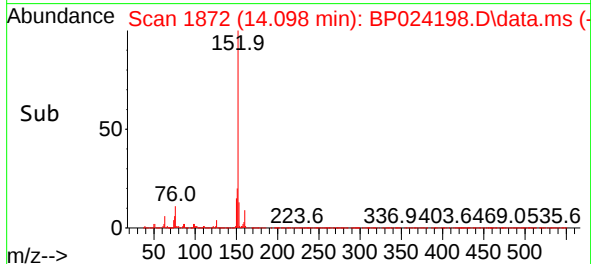
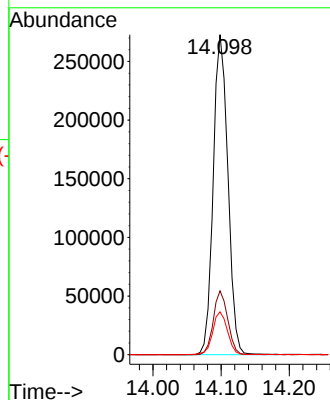
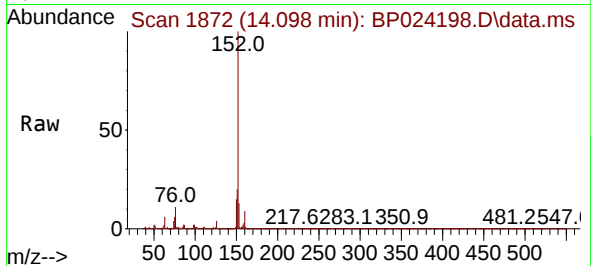




#50
Acenaphthylene
Concen: 4.863 ng/ul
RT: 14.098 min Scan# 1872
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

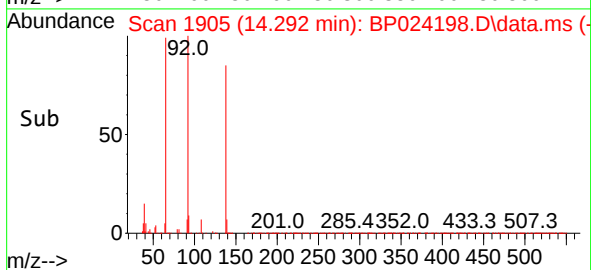
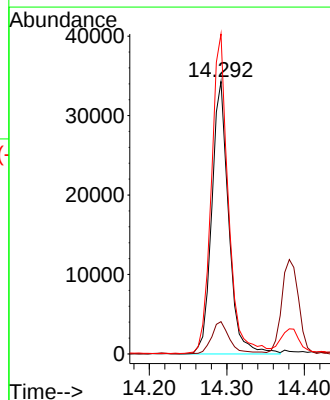
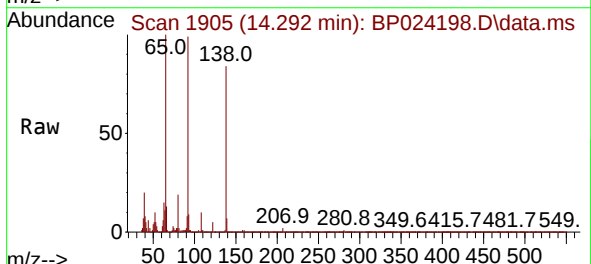
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT1-2025-02

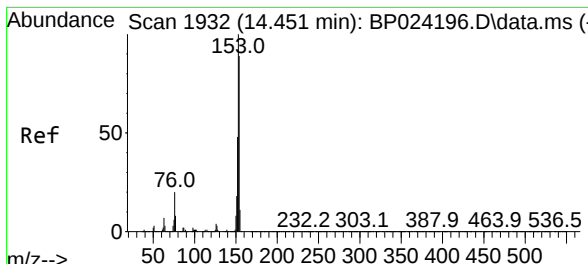
Tgt Ion:152 Resp: 408644
Ion Ratio Lower Upper
152 100
151 19.9 15.7 23.5
153 13.4 10.5 15.7



#51
3-Nitroaniline
Concen: 3.408 ng/ul
RT: 14.292 min Scan# 1905
Delta R.T. -0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:138 Resp: 51968
Ion Ratio Lower Upper
138 100
108 11.9 8.5 12.7
92 117.5 88.3 132.5

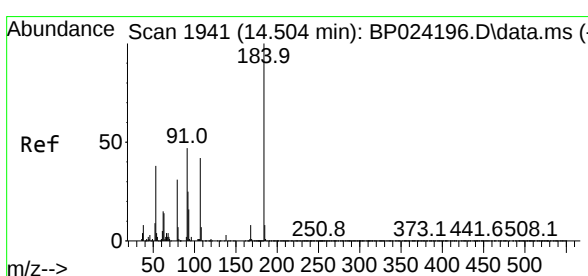
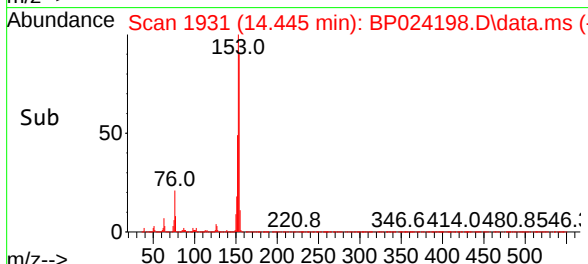
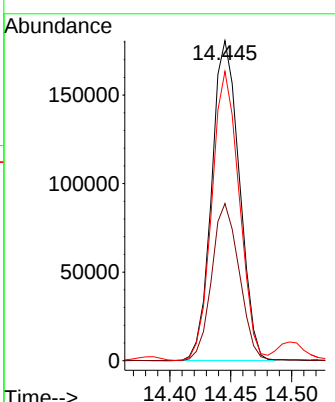
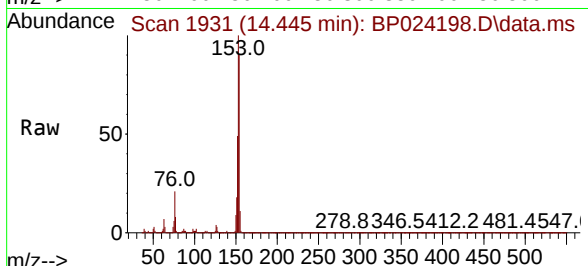




#52
 Acenaphthene
 Concen: 4.838 ng/ul
 RT: 14.445 min Scan# 1931
 Delta R.T. -0.006 min
 Lab File: BP024198.D
 Acq: 21 Mar 2025 10:28

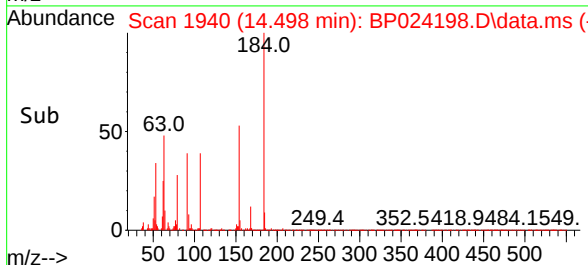
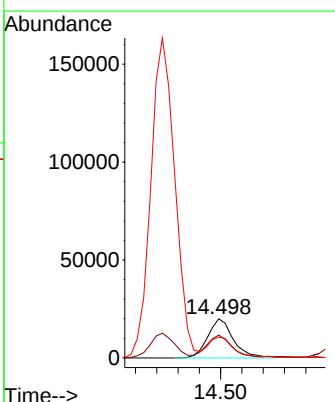
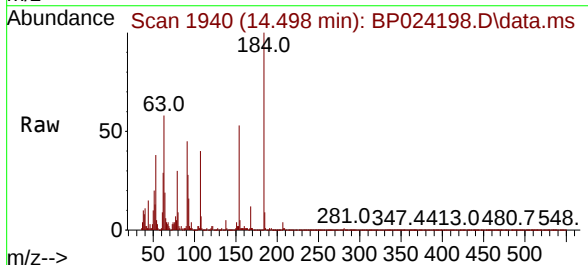
Instrument : BNA_P
 ClientSampleId : MDL-SOIL-QT1-2025-02

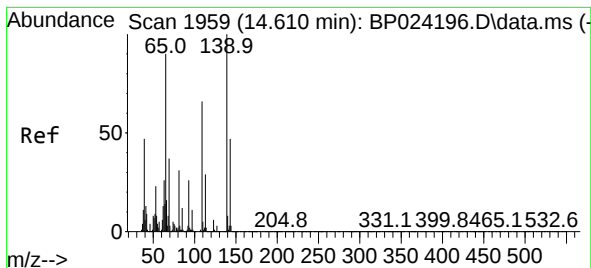
Tgt Ion:153	Resp: 286139
Ion Ratio	Lower Upper
153	100
152	49.1 38.2 57.4
154	90.4 71.0 106.6



#53
 2,4-Dinitrophenol
 Concen: 4.090 ng/ul
 RT: 14.498 min Scan# 1940
 Delta R.T. -0.006 min
 Lab File: BP024198.D
 Acq: 21 Mar 2025 10:28

Tgt Ion:184	Resp: 33445
Ion Ratio	Lower Upper
184	100
63	58.2 47.8 71.8
154	52.9 47.0 70.6

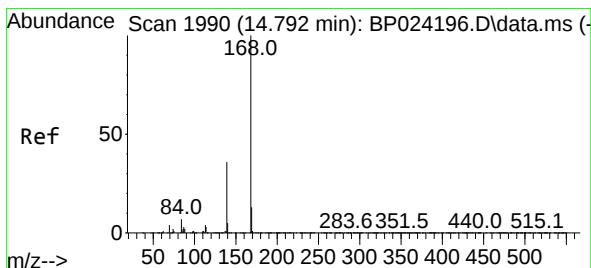
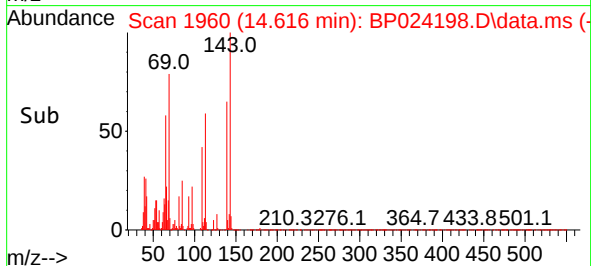
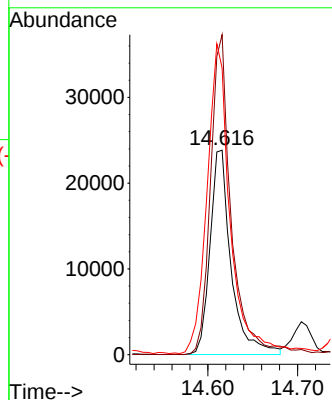
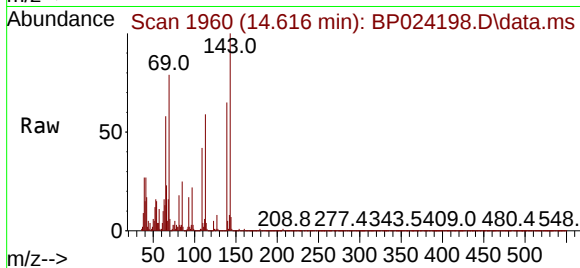




#55
4-Nitrophenol
Concen: 4.099 ng/ul
RT: 14.616 min Scan# 1959
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

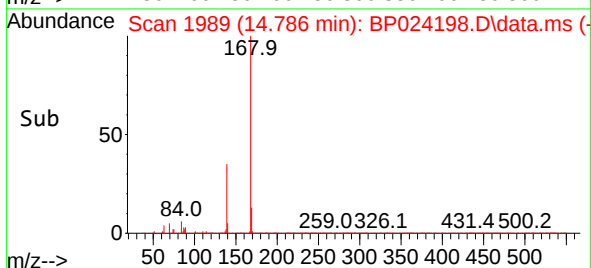
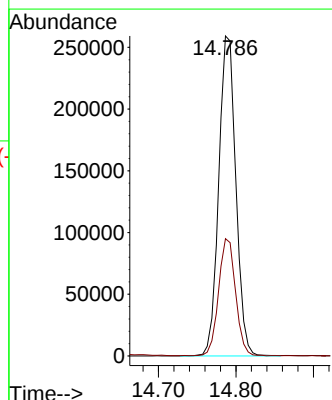
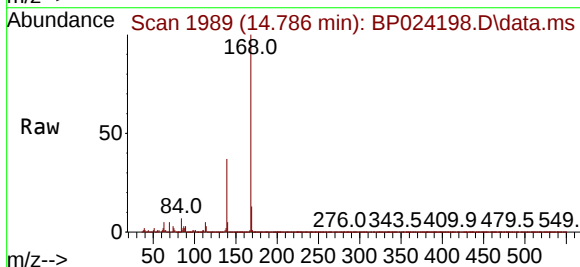
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

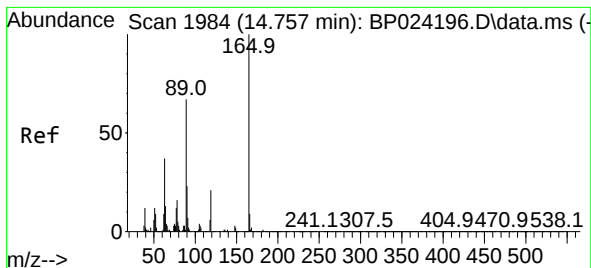
Tgt Ion:109 Resp: 38900
Ion Ratio Lower Upper
109 100
139 156.5 127.4 191.2
65 140.2 106.3 159.5



#56
Dibenzofuran
Concen: 4.872 ng/ul
RT: 14.786 min Scan# 1989
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:168 Resp: 397395
Ion Ratio Lower Upper
168 100
139 36.7 28.9 43.3

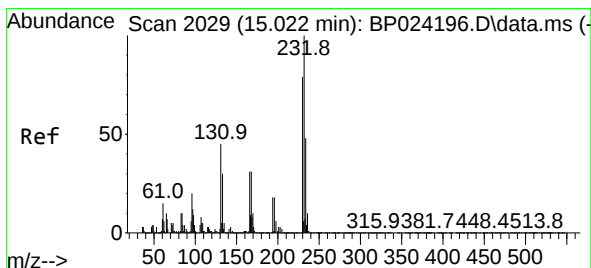
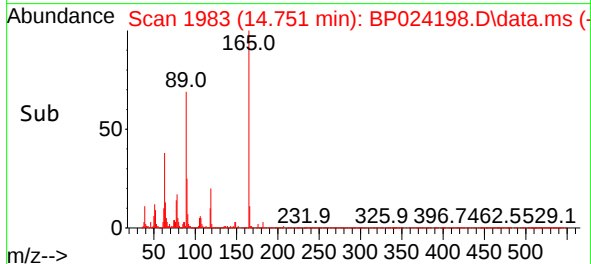
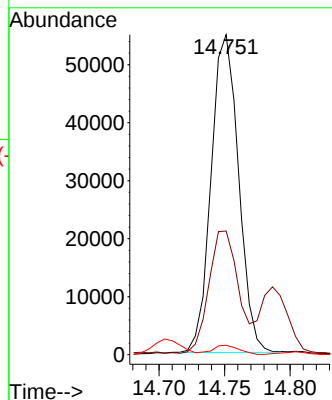
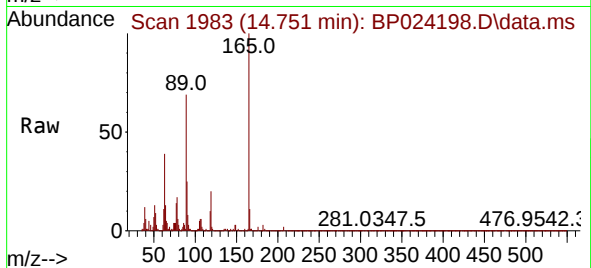




#57
2,4-Dinitrotoluene
Concen: 4.087 ng/ul
RT: 14.751 min Scan# 1983
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

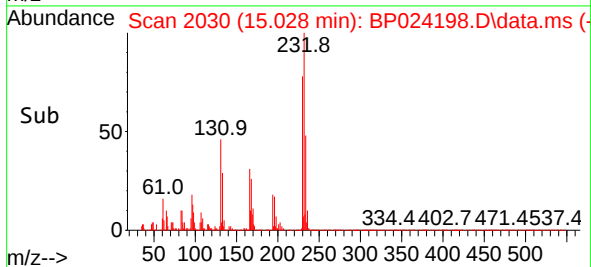
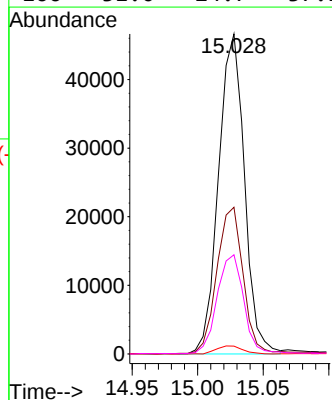
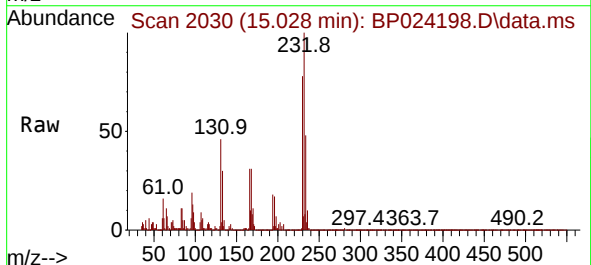
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

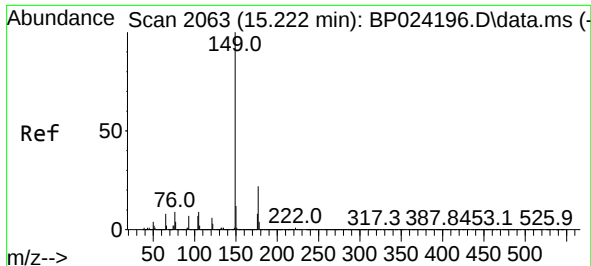
Tgt Ion:165 Resp: 79796
Ion Ratio Lower Upper
165 100
63 38.6 28.7 43.1
182 3.0 2.2 3.2



#58
2,3,4,6-Tetrachlorophenol
Concen: 4.079 ng/ul
RT: 15.028 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:232 Resp: 64046
Ion Ratio Lower Upper
232 100
131 45.8 36.1 54.1
130 2.4 1.8 2.8
166 31.0 24.7 37.1

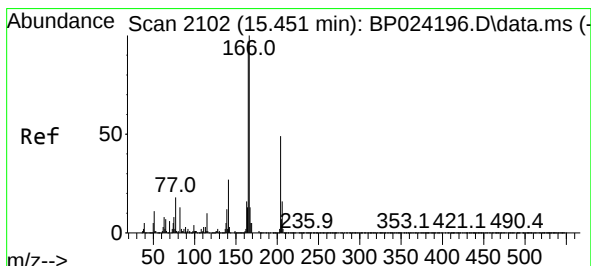
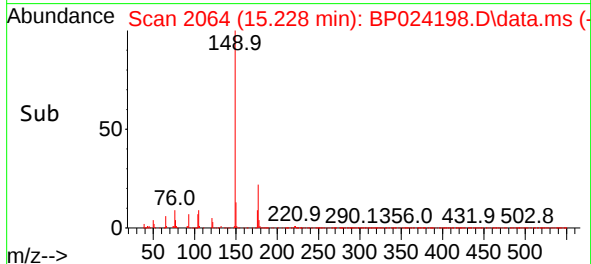
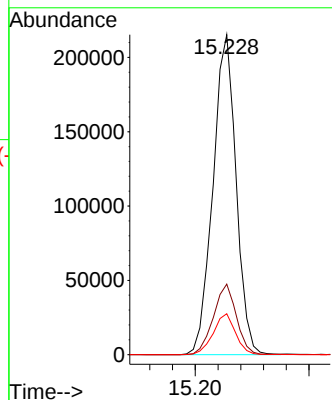
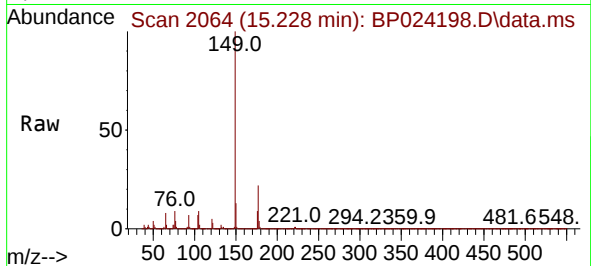




#59
Diethylphthalate
Concen: 4.597 ng/ul
RT: 15.228 min Scan# 2063
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

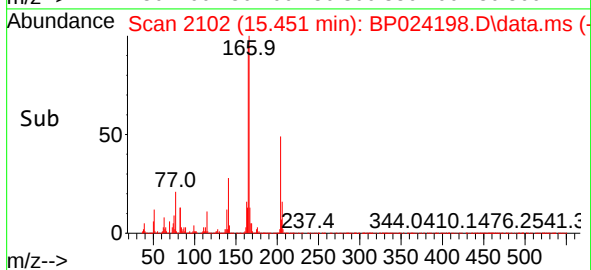
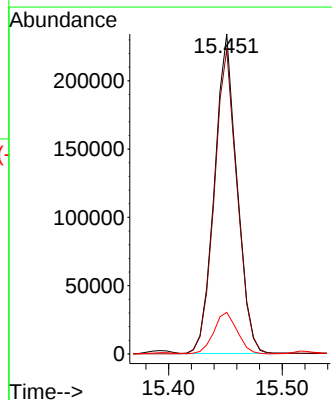
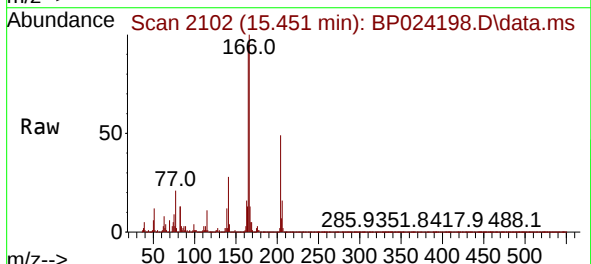
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

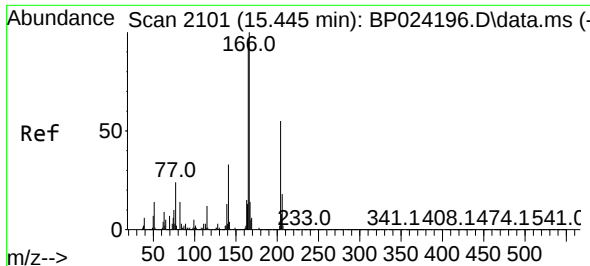
Tgt Ion:149 Resp: 304374
Ion Ratio Lower Upper
149 100
177 22.1 17.7 26.5
150 12.8 10.1 15.1



#61
Fluorene
Concen: 4.834 ng/ul
RT: 15.451 min Scan# 2102
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:166 Resp: 322340
Ion Ratio Lower Upper
166 100
165 95.1 77.1 115.7
167 13.0 10.6 16.0

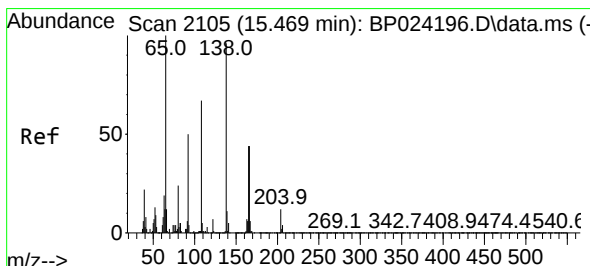
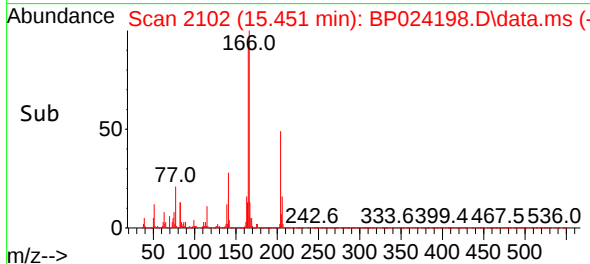
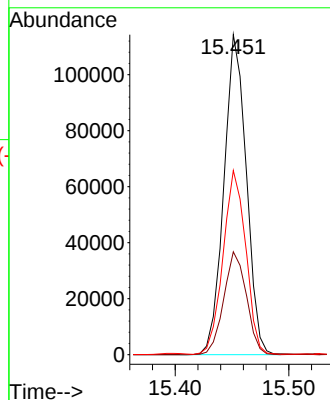
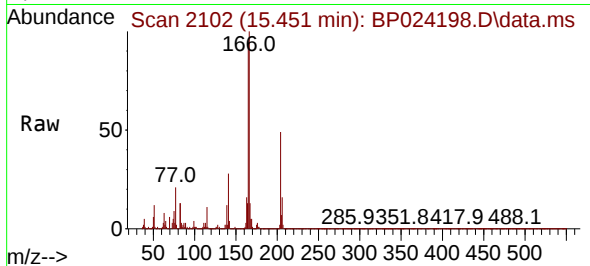




#62
4-Chlorophenyl-phenylether
Concen: 4.863 ng/ul
RT: 15.451 min Scan# 2101
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

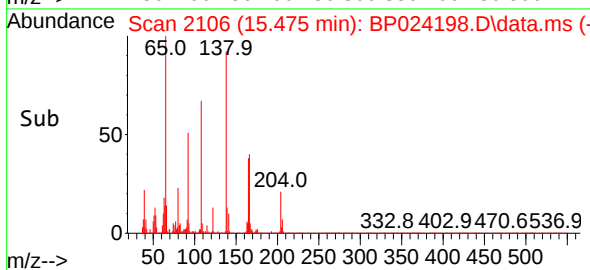
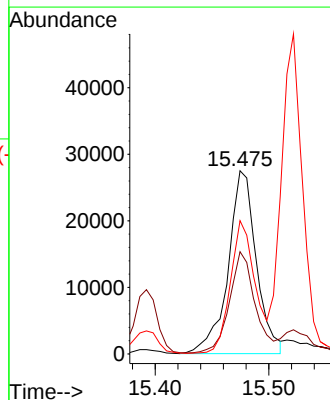
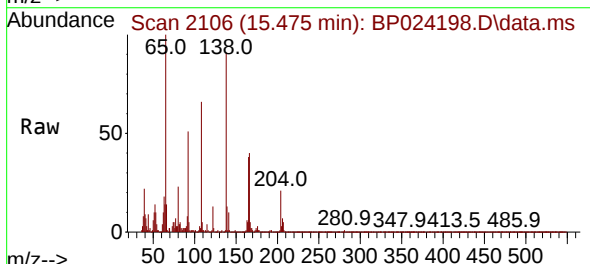
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

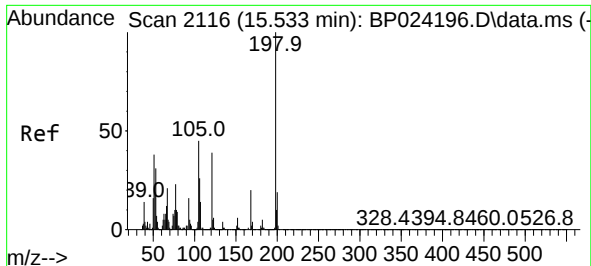
Tgt Ion:204 Resp: 156652
Ion Ratio Lower Upper
204 100
206 32.1 25.8 38.8
141 57.5 45.1 67.7



#63
4-Nitroaniline
Concen: 3.156 ng/ul
RT: 15.475 min Scan# 2106
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:138 Resp: 47360
Ion Ratio Lower Upper
138 100
92 55.8 38.9 58.3
108 72.8 55.3 82.9

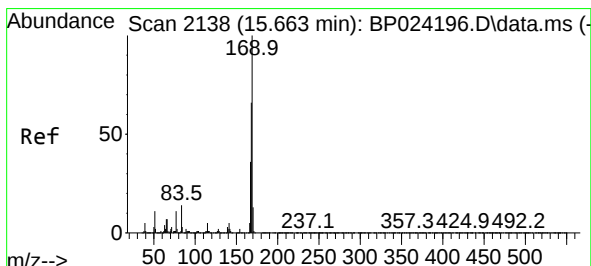
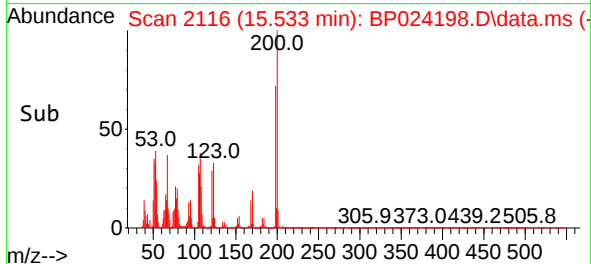
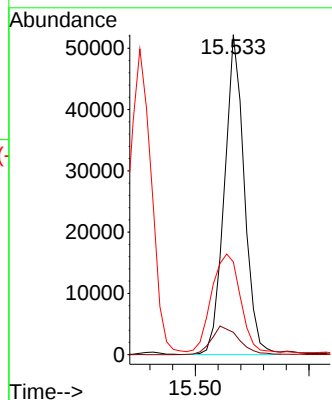
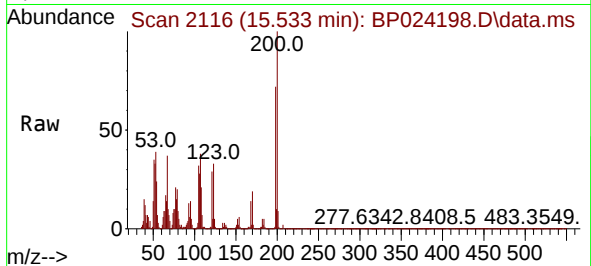




#66
4,6-Dinitro-2-methylphenol
Concen: 5.119 ng/ul
RT: 15.533 min Scan# 2116
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

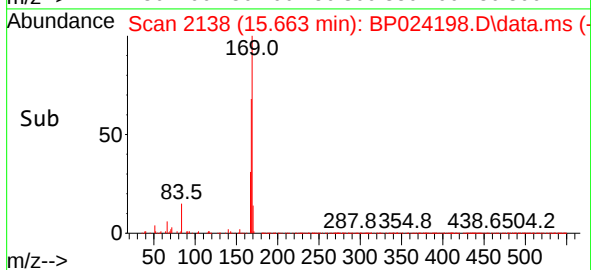
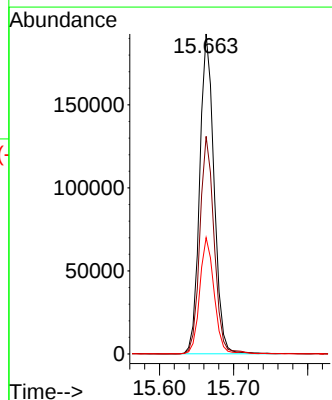
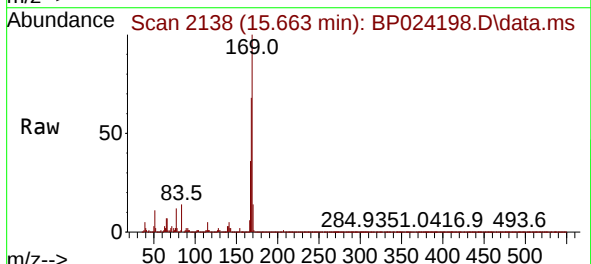
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

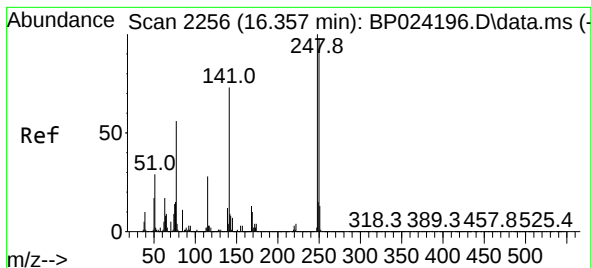
Tgt Ion:198 Resp: 63433
Ion Ratio Lower Upper
198 100
182 7.0 3.5 5.3#
77 29.0 17.6 26.4#



#67
N-Nitrosodiphenylamine
Concen: 4.716 ng/ul
RT: 15.663 min Scan# 2138
Delta R.T. -0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:169 Resp: 258598
Ion Ratio Lower Upper
169 100
168 68.0 53.4 80.0
167 36.4 29.0 43.4

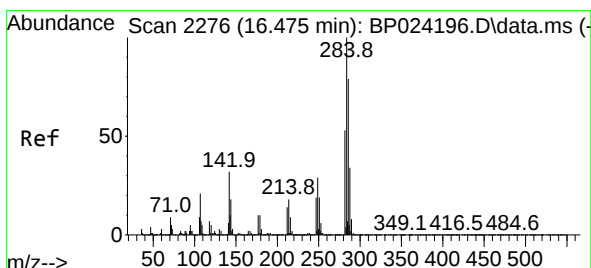
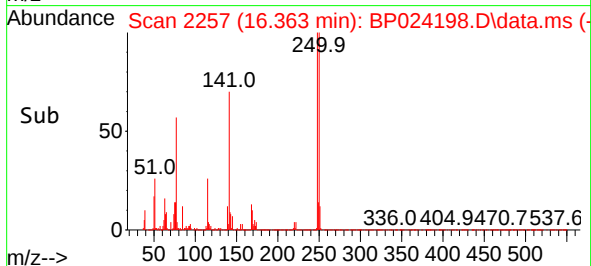
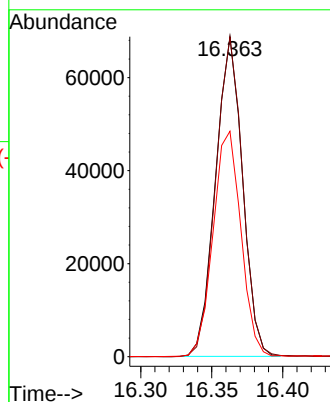
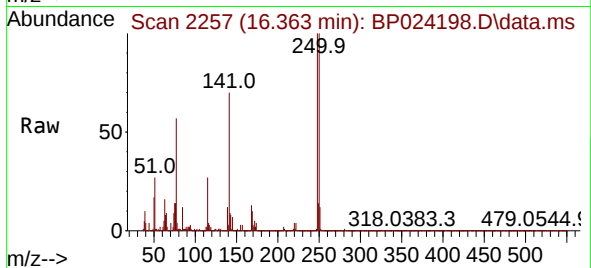




#68
4-Bromophenyl-phenylether
Concen: 4.593 ng/ul
RT: 16.363 min Scan# 2256
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

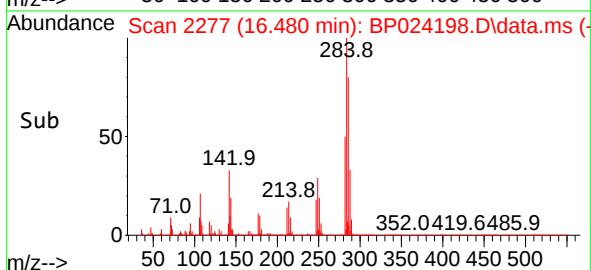
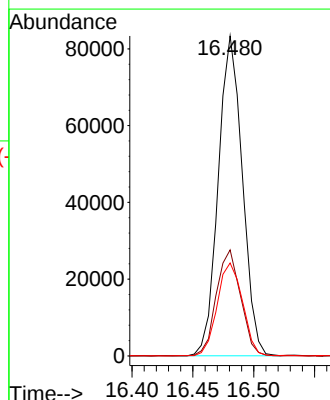
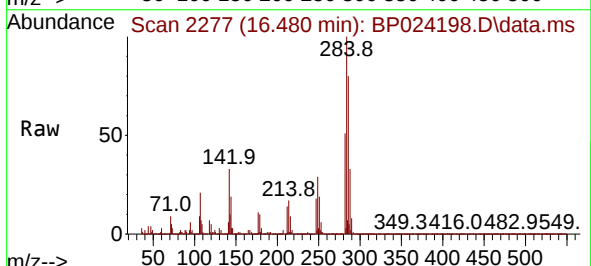
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

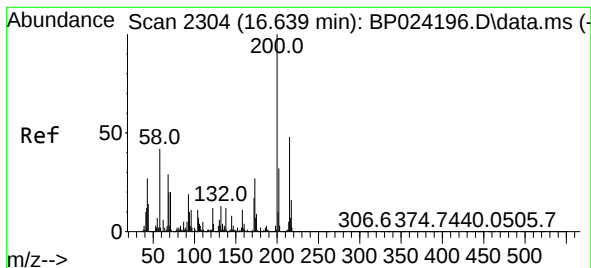
Tgt Ion:248 Resp: 91027
Ion Ratio Lower Upper
248 100
250 99.8 77.9 116.9
141 70.5 52.9 79.3



#69
Hexachlorobenzene
Concen: 4.773 ng/ul
RT: 16.480 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:284 Resp: 114906
Ion Ratio Lower Upper
284 100
142 33.2 27.7 41.5
249 29.1 24.9 37.3





#70

Atrazine

Concen: 4.655 ng/ul

RT: 16.645 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

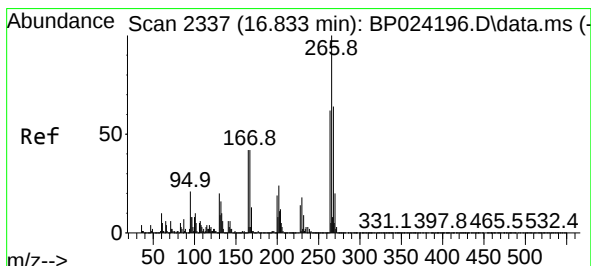
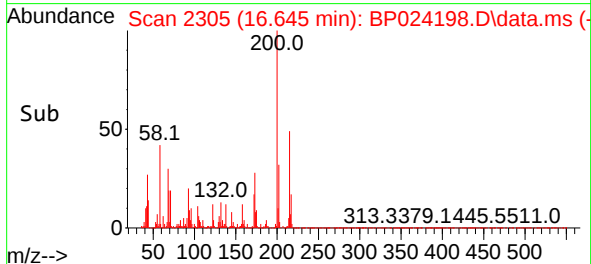
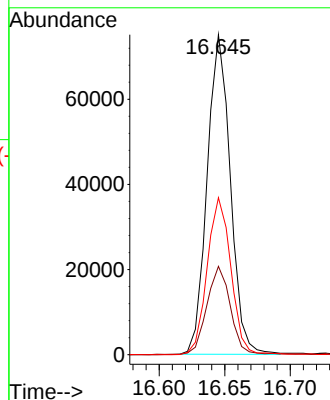
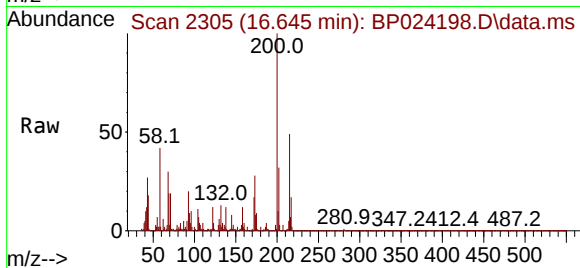
Tgt Ion:200 Resp: 92423

Ion Ratio Lower Upper

200 100

173 27.6 21.9 32.9

215 49.1 40.4 60.6



#71

Pentachlorophenol

Concen: 4.415 ng/ul

RT: 16.839 min Scan# 2338

Delta R.T. 0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

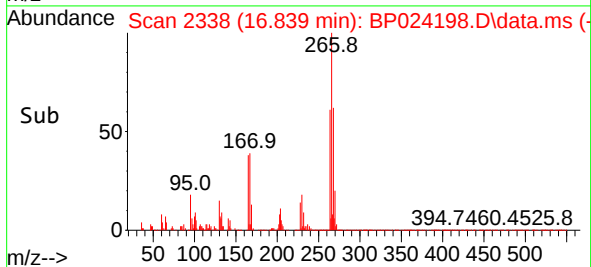
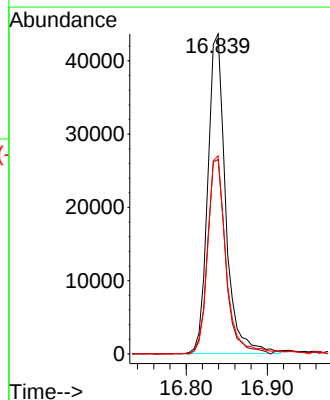
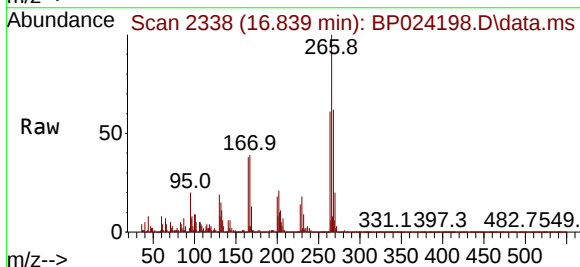
Tgt Ion:266 Resp: 66709

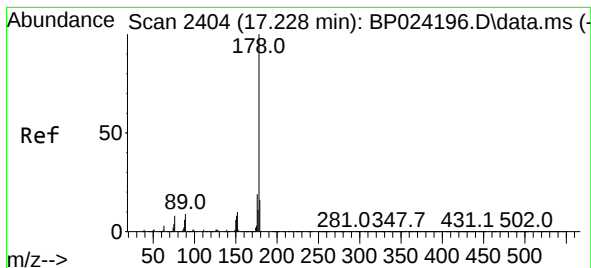
Ion Ratio Lower Upper

266 100

264 60.7 50.6 76.0

268 61.9 50.6 76.0





#72

Phenanthrene

Concen: 4.793 ng/ul

RT: 17.233 min Scan# 2405

Delta R.T. 0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

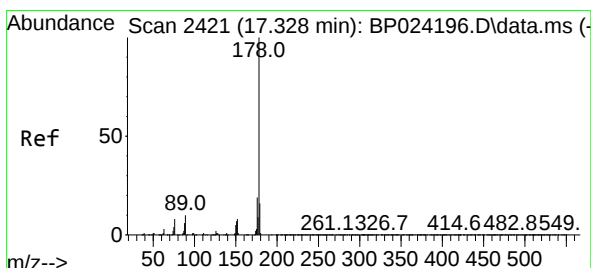
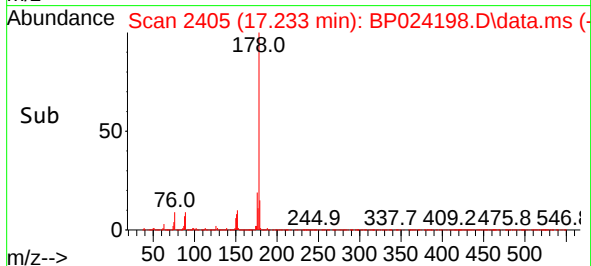
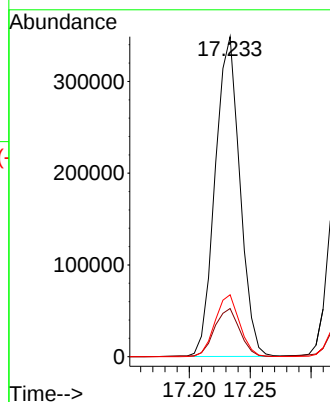
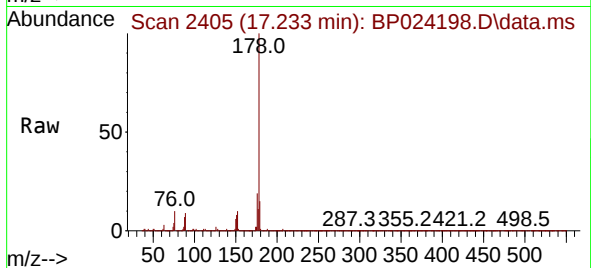
Tgt Ion:178 Resp: 492866

Ion Ratio Lower Upper

178 100

179 15.1 12.2 18.4

176 19.3 15.4 23.2



#74

Anthracene

Concen: 4.592 ng/ul

RT: 17.328 min Scan# 2421

Delta R.T. -0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

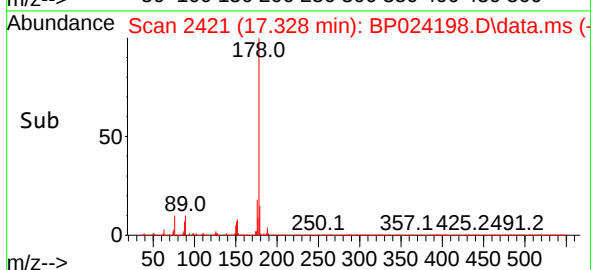
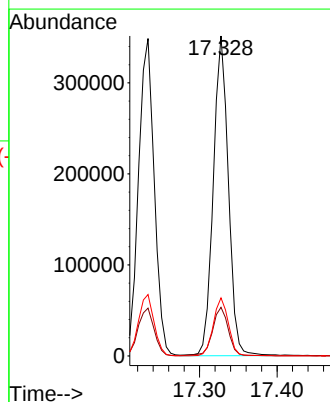
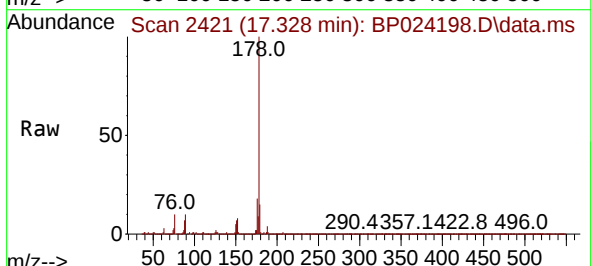
Tgt Ion:178 Resp: 475684

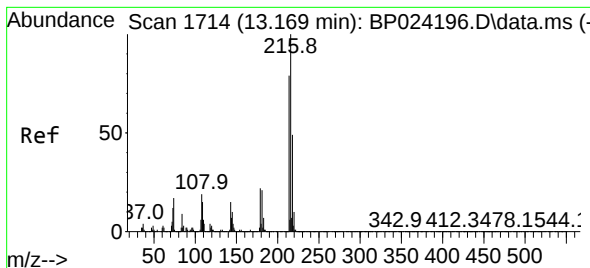
Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

176 18.2 15.1 22.7

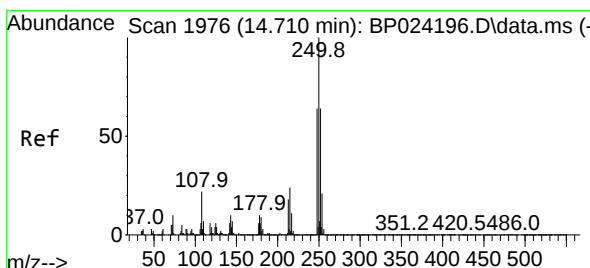
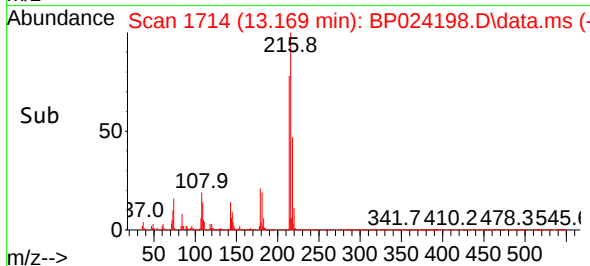
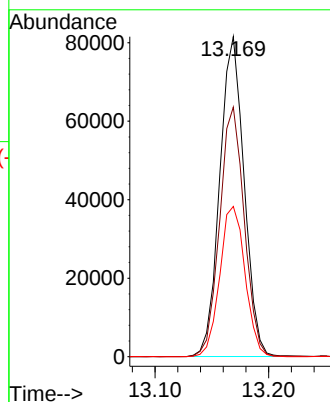
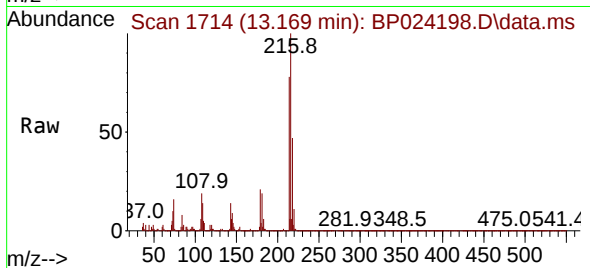




#75
1,2,3,4-Tetrachlorobenzene
Concen: 4.487 ng/uL
RT: 13.169 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

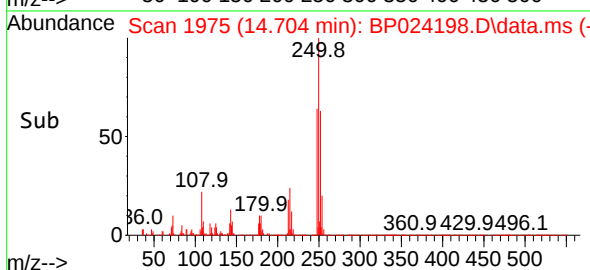
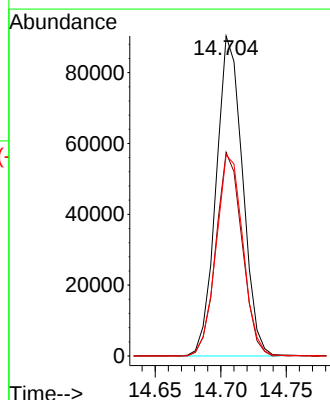
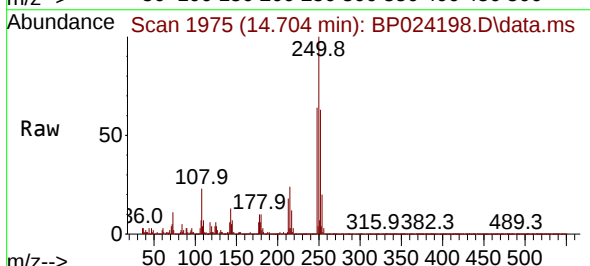
Instrument :
BNA_P
ClientSampleId :
MDL-SOIL-QT1-2025-02

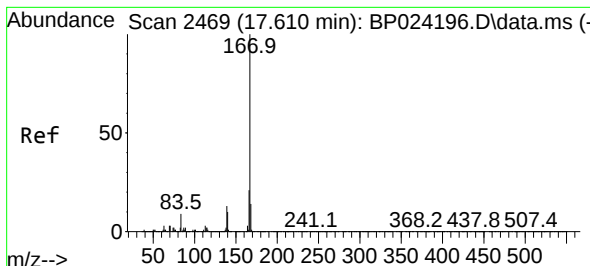
Tgt Ion:216 Resp: 121536
Ion Ratio Lower Upper
216 100
214 78.0 61.4 92.0
218 46.9 37.8 56.6



#76
Pentachlorobenzene
Concen: 4.464 ng/uL
RT: 14.704 min Scan# 1975
Delta R.T. -0.006 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:250 Resp: 126432
Ion Ratio Lower Upper
250 100
248 63.6 50.2 75.4
252 62.8 50.7 76.1





#77

Carbazole

Concen: 4.293 ng/ul

RT: 17.604 min Scan# 2468

Delta R.T. -0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

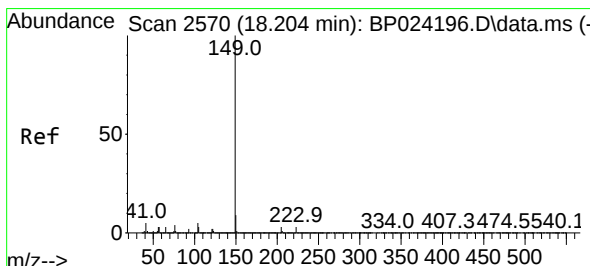
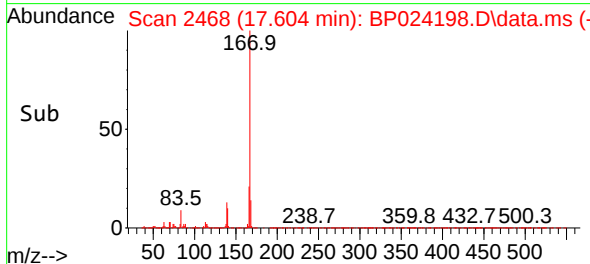
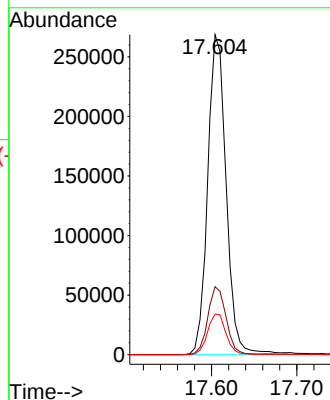
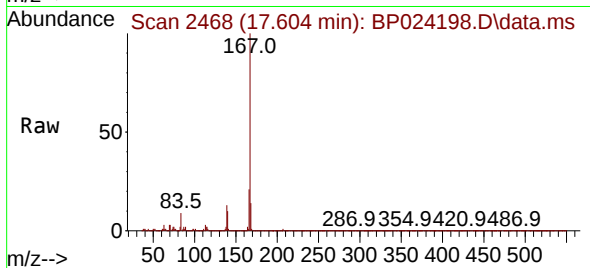
Tgt Ion:167 Resp: 403833

Ion Ratio Lower Upper

167 100

166 21.2 16.8 25.2

139 12.7 10.2 15.4



#78

Di-n-butylphthalate

Concen: 4.239 ng/ul

RT: 18.204 min Scan# 2570

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

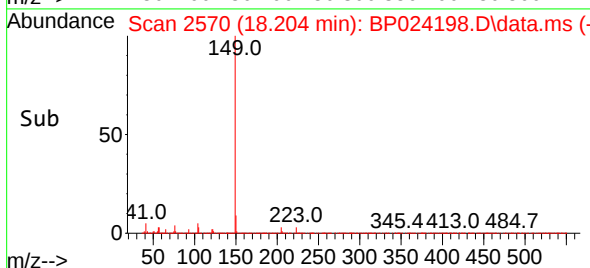
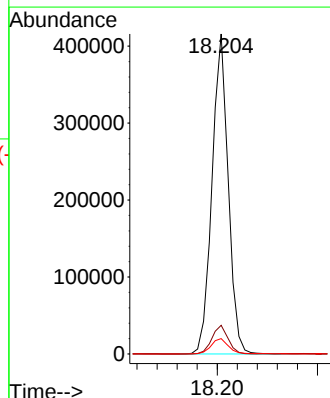
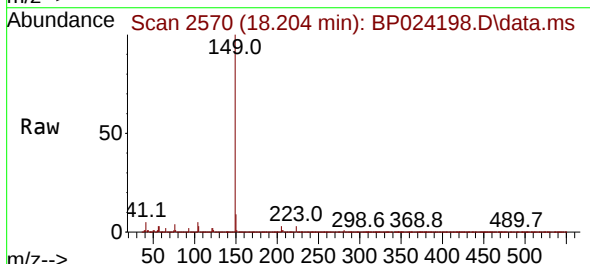
Tgt Ion:149 Resp: 464457

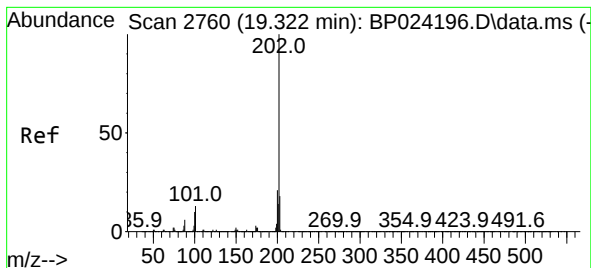
Ion Ratio Lower Upper

149 100

150 9.0 7.4 11.0

104 4.8 3.8 5.8





#80

Fluoranthene

Concen: 5.399 ng/ul

RT: 19.316 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

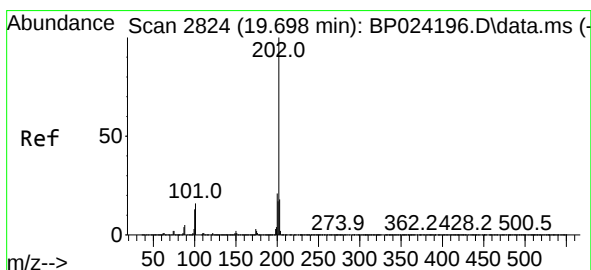
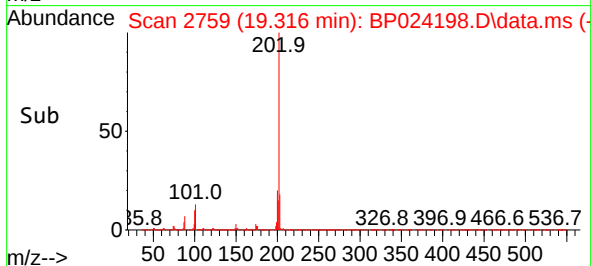
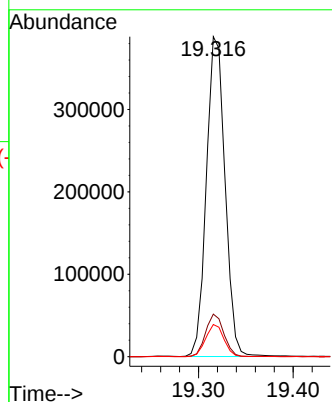
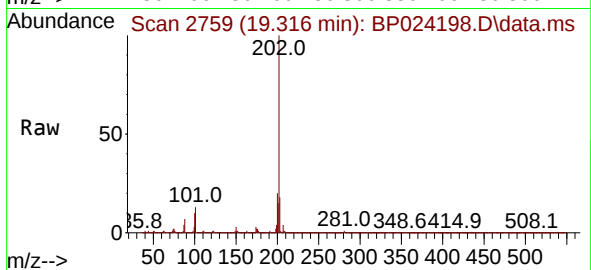
Tgt Ion:202 Resp: 530672

Ion Ratio Lower Upper

202 100

101 13.3 9.4 14.2

100 10.0 7.1 10.7



#82

Pyrene

Concen: 5.657 ng/ul

RT: 19.698 min Scan# 2824

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

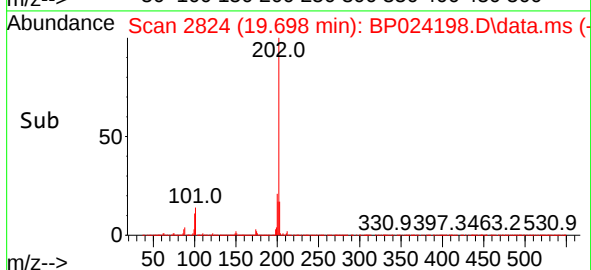
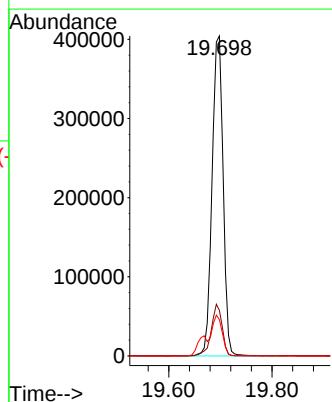
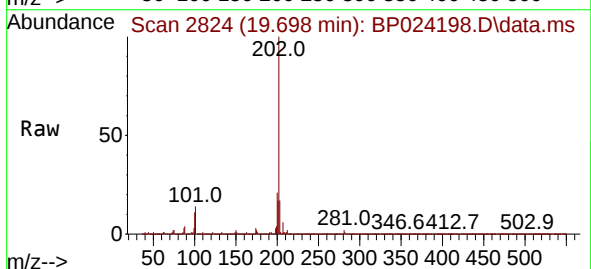
Tgt Ion:202 Resp: 599095

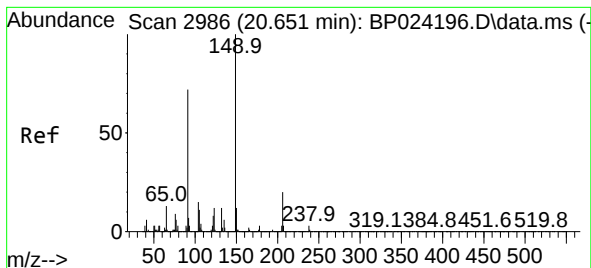
Ion Ratio Lower Upper

202 100

101 14.2 11.5 17.3

100 11.4 9.5 14.3





#83

Butylbenzylphthalate

Concen: 4.194 ng/ul

RT: 20.651 min Scan# 2986

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

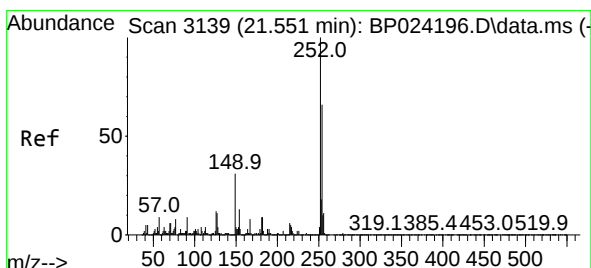
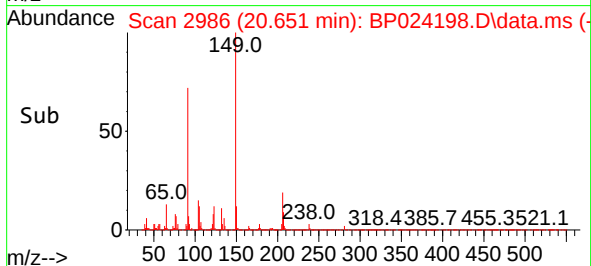
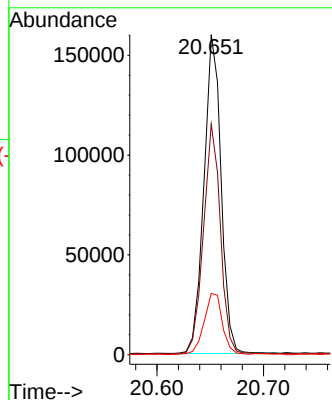
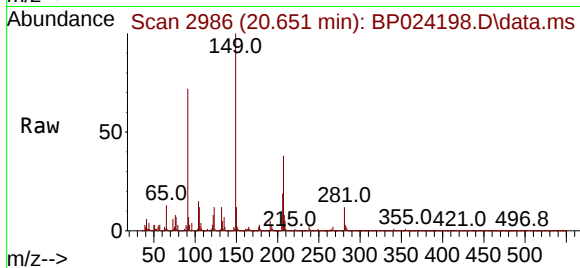
Tgt Ion:149 Resp: 179098

Ion Ratio Lower Upper

149 100

91 72.1 53.0 79.4

206 19.1 17.6 26.4



#84

3,3'-Dichlorobenzidine

Concen: 3.415 ng/ul

RT: 21.551 min Scan# 3139

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

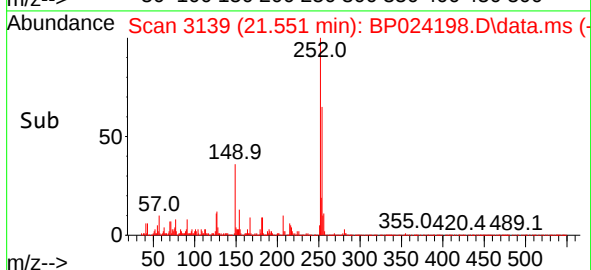
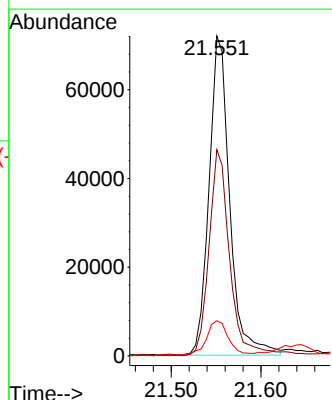
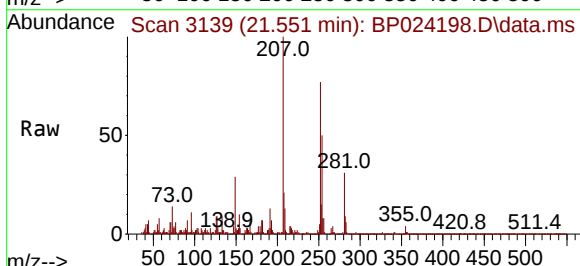
Tgt Ion:252 Resp: 114928

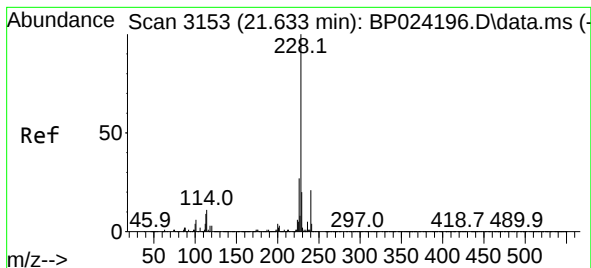
Ion Ratio Lower Upper

252 100

254 64.5 51.2 76.8

126 11.0 9.3 13.9





#85

Benzo(a)anthracene

Concen: 4.810 ng/ul

RT: 21.627 min Scan# 3152

Delta R.T. -0.006 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

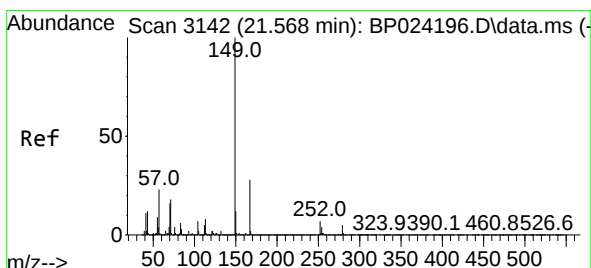
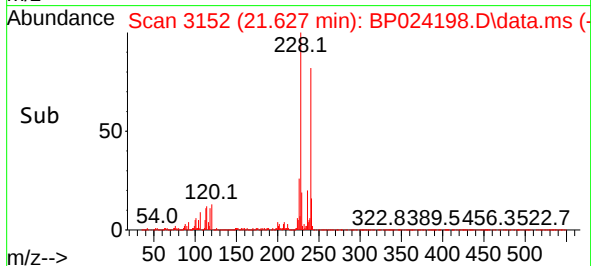
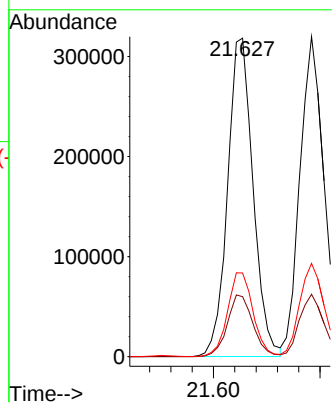
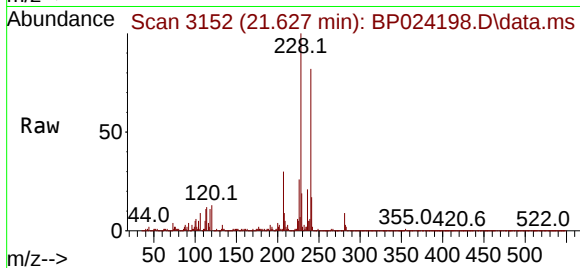
Tgt Ion:228 Resp: 529515

Ion Ratio Lower Upper

228 100

229 18.8 15.7 23.5

226 26.3 21.4 32.0



#86

Bis(2-ethylhexyl)phthalate

Concen: 3.912 ng/ul

RT: 21.568 min Scan# 3142

Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

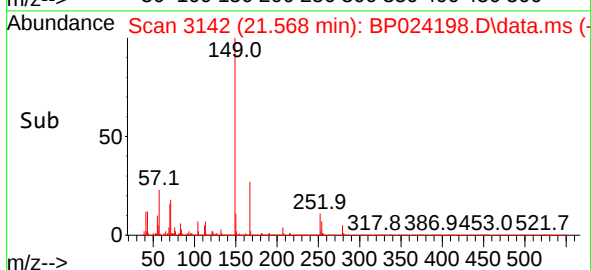
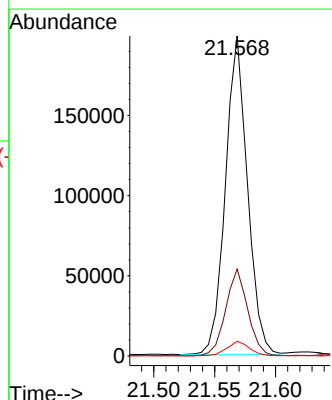
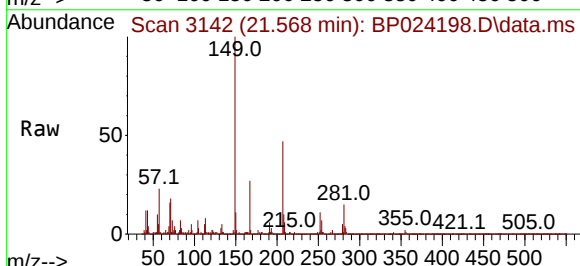
Tgt Ion:149 Resp: 250687

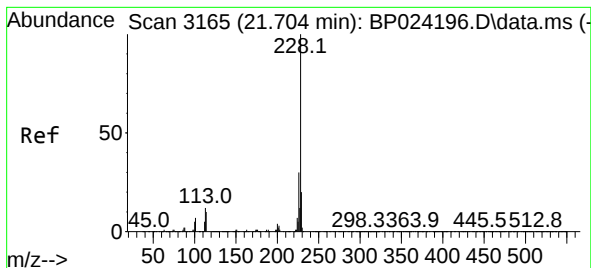
Ion Ratio Lower Upper

149 100

167 27.1 22.2 33.4

279 4.6 3.7 5.5





#87

Chrysene

Concen: 4.878 ng/ul

RT: 21.692 min Scan# 3163

Delta R.T. -0.012 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

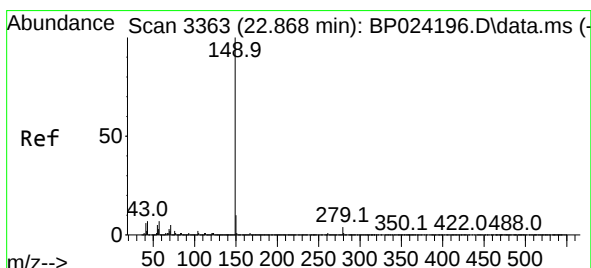
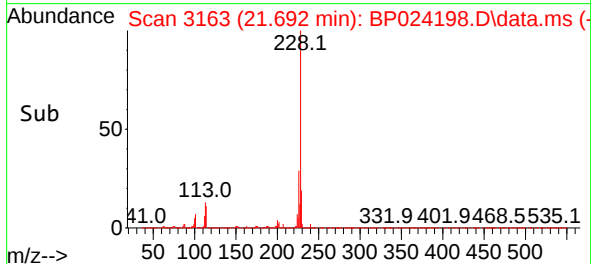
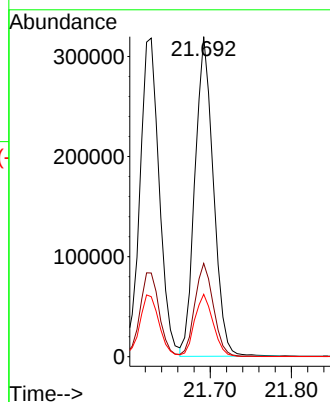
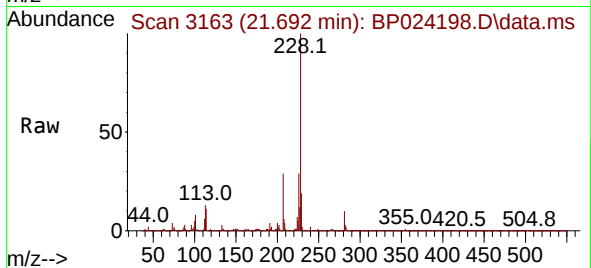
Tgt Ion:228 Resp: 504422

Ion Ratio Lower Upper

228 100

226 29.2 24.2 36.4

229 19.5 15.8 23.6



#89

Di-n-octyl phthalate

Concen: 3.664 ng/ul

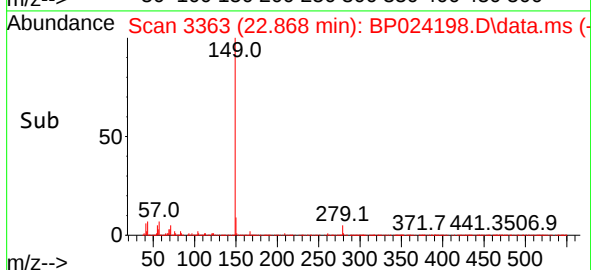
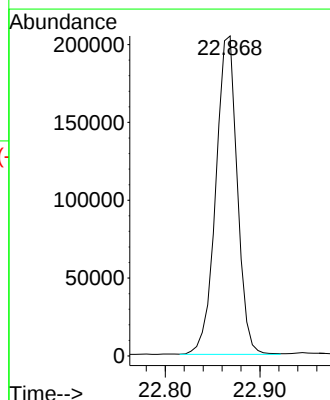
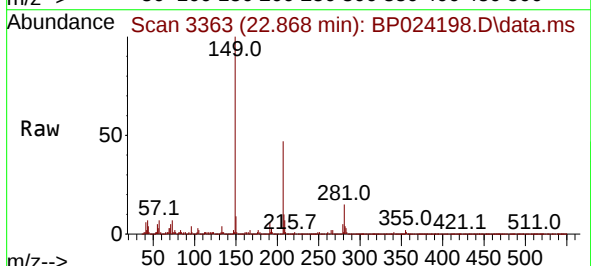
RT: 22.868 min Scan# 3363

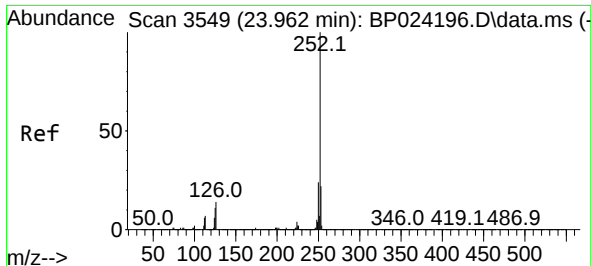
Delta R.T. 0.000 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Tgt Ion:149 Resp: 321548

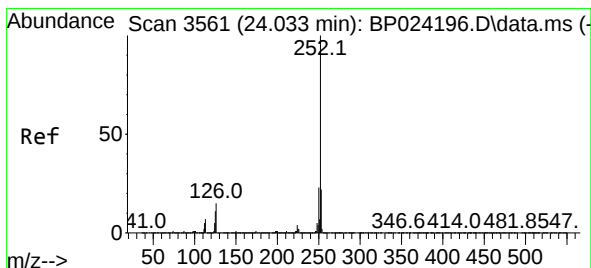
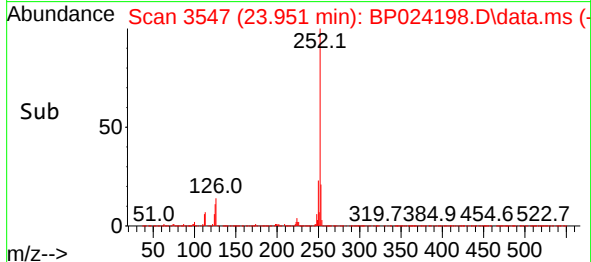
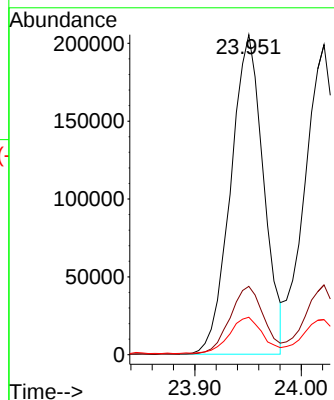
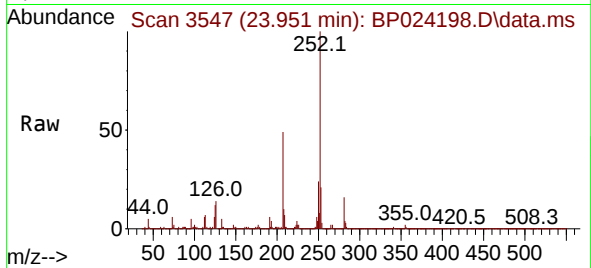




#90
Benzo(b)fluoranthene
Concen: 4.932 ng/ul
RT: 23.951 min Scan# 3547
Delta R.T. -0.012 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

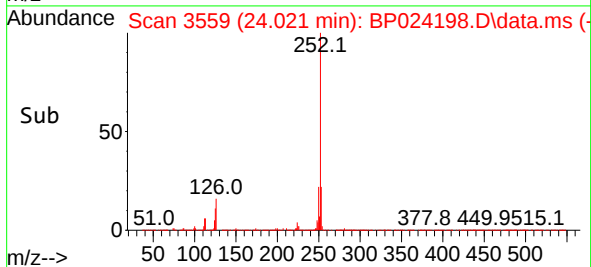
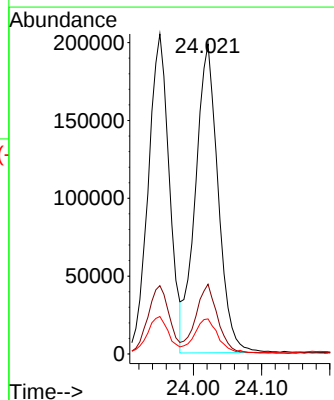
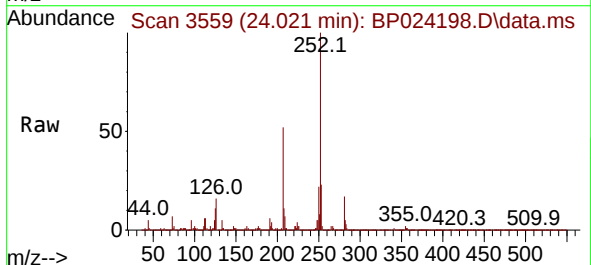
Instrument : BNA_P
ClientSampleId : MDL-SOIL-QT1-2025-02

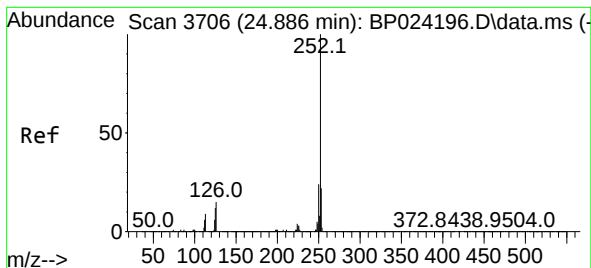
Tgt Ion:252 Resp: 441038
Ion Ratio Lower Upper
252 100
253 21.4 17.7 26.5
125 11.7 8.4 12.6



#91
Benzo(k)fluoranthene
Concen: 5.058 ng/ul
RT: 24.021 min Scan# 3559
Delta R.T. -0.012 min
Lab File: BP024198.D
Acq: 21 Mar 2025 10:28

Tgt Ion:252 Resp: 459109
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.6
125 11.3 8.6 12.8





#93

Benzo(a)pyrene

Concen: 4.696 ng/ul

RT: 24.868 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

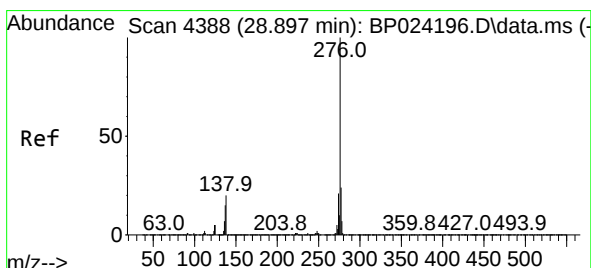
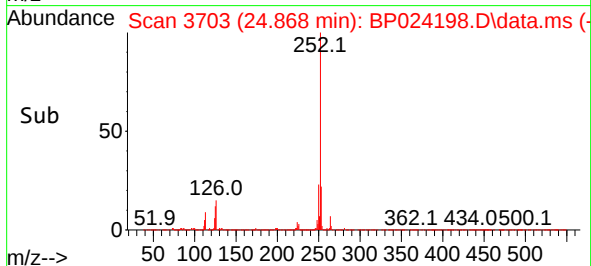
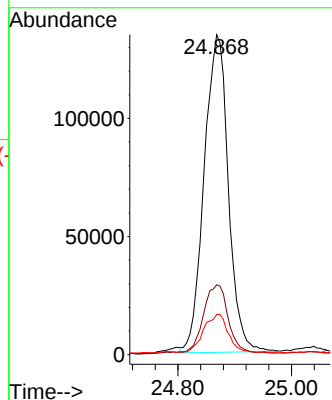
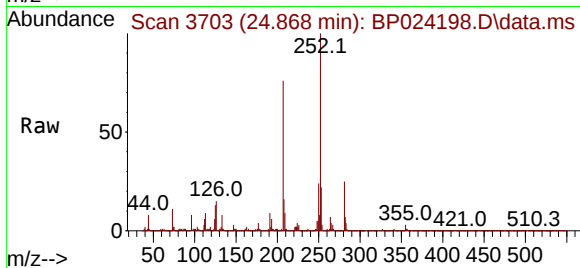
Tgt Ion:252 Resp: 397094

Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.2

125 12.5 9.8 14.6



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.871 ng/ul

RT: 28.862 min Scan# 4382

Delta R.T. -0.035 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

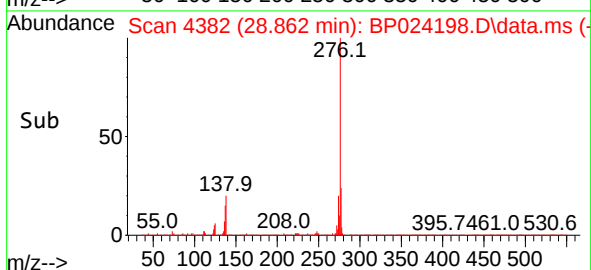
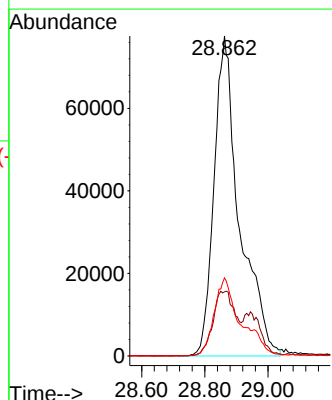
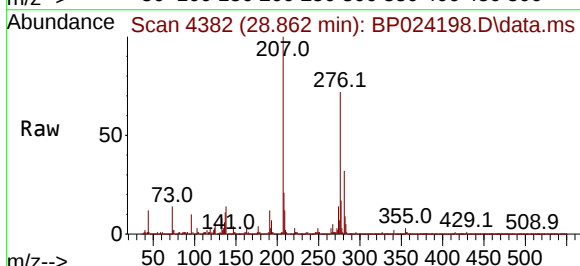
Tgt Ion:276 Resp: 432779

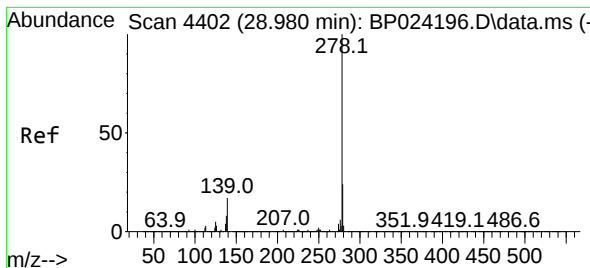
Ion Ratio Lower Upper

276 100

138 20.1 16.2 24.4

277 24.4 18.9 28.3





#95

Dibenzo(a,h)anthracene

Concen: 3.899 ng/ul

RT: 28.945 min Scan# 41

Delta R.T. -0.035 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Instrument :

BNA_P

ClientSampleId :

MDL-SOIL-QT1-2025-02

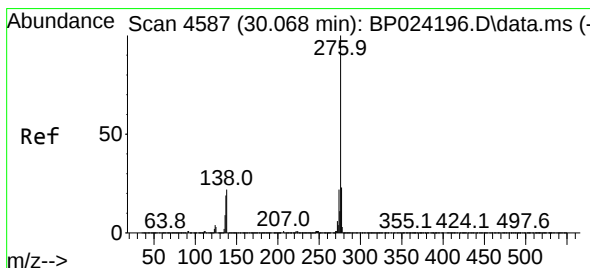
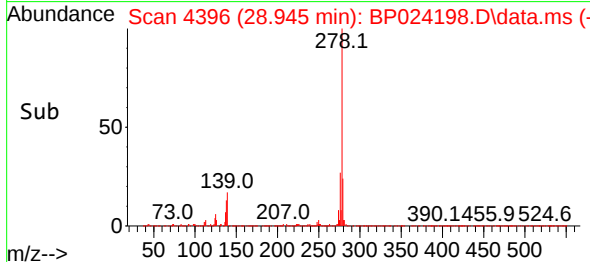
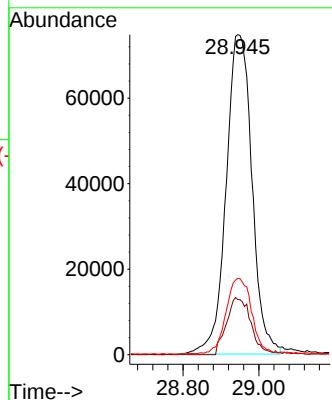
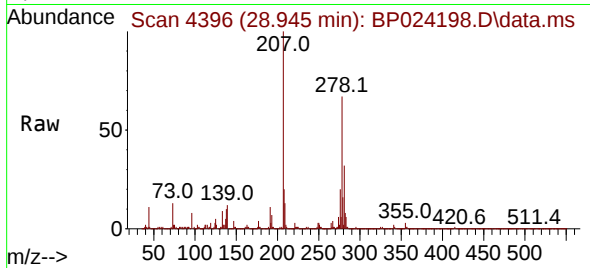
Tgt Ion:278 Resp: 353955

Ion Ratio Lower Upper

278 100

139 17.2 12.4 18.6

279 23.9 19.4 29.0



#96

Benzo(g,h,i)perylene

Concen: 3.884 ng/ul

RT: 30.050 min Scan# 4584

Delta R.T. -0.018 min

Lab File: BP024198.D

Acq: 21 Mar 2025 10:28

Tgt Ion:276 Resp: 336987

Ion Ratio Lower Upper

276 100

138 21.3 17.3 25.9

277 23.3 18.7 28.1

