

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032025\
 Data File : BM049728.D
 Acq On : 20 Mar 2025 10:27
 Operator : RC/JU
 Sample : Q1546-03
 Misc : MDL-SOIL 4 ppm
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

Quant Time: Mar 20 12:39:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-BM031425.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 14 15:07:40 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.798	152	284951	20.000	ng/u1	0.00
20) Naphthalene-d8	10.592	136	1078892	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.439	164	791587	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.180	188	1704725	20.000	ng/u1	0.00
79) Chrysene-d12	21.421	240	1619247	20.000	ng/u1	0.00
88) Perylene-d12	24.438	264	1569949	20.000	ng/u1	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.246	96	28643	4.141	ng/uL	0.00
4) Pyridine-d5	3.657	84	513373	24.128	ng/u1	0.00
7) Phenol-d5	6.969	99	557926	23.947	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	7.128	67	383660	26.398	ng/u1	0.00
11) 2-Chlorophenol-d4	7.334	132	449254	25.688	ng/u1	0.00
15) 4-Methylphenol-d8	8.510	113	411934	22.771	ng/u1	0.00
21) Nitrobenzene-d5	8.951	128	211564	25.770	ng/u1	0.00
24) 2-Nitrophenol-d4	9.675	143	222583	25.095	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.216	165	467874	24.371	ng/u1	0.00
31) 4-Chloroaniline-d4	10.727	131	627006	25.545	ng/u1	0.00
46) Dimethylphthalate-d6	13.851	166	1607644	27.551	ng/u1	0.00
49) Acenaphthylene-d8	14.133	160	1819327	26.767	ng/u1	0.00
54) 4-Nitrophenol-d4	14.639	143	242448	24.436	ng/u1	0.00
60) Fluorene-d10	15.433	176	1417410	27.258	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.545	200	202628	18.946	ng/u1	0.00
73) Anthracene-d10	17.280	188	2222874	25.690	ng/u1	0.00
81) Pyrene-d10	19.574	212	2710811	27.382	ng/u1	0.00
92) Benzo(a)pyrene-d12	24.232	264	2350435	27.840	ng/u1	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.281	88	10076m	1.366	ng/uL	
5) Pyridine	3.681	79	94097	4.430	ng/u1#	83
6) Benzaldehyde	6.939	77	61637m	5.007	ng/u1	
8) Phenol	6.992	94	103371	4.324	ng/u1	99
10) Bis(2-Chloroethyl)ether	7.222	93	88594	4.623	ng/u1	96
12) 2-Chlorophenol	7.363	128	79428	4.401	ng/u1	98
13) 2-Methylphenol	8.245	108	62887	3.603	ng/u1	99
14) 2,2'-oxybis(1-Chloropr...	8.322	45	113318	4.746	ng/u1	98
16) Acetophenone	8.616	105	132294	4.494	ng/u1	99
17) N-Nitroso-di-n-propyla...	8.604	70	66739	4.387	ng/u1	99
18) 4-Methylphenol	8.569	108	76920	3.997	ng/u1	94
19) Hexachloroethane	8.881	117	36683	4.679	ng/u1	97
22) Nitrobenzene	8.992	77	100245	4.886	ng/u1	94
23) Isophorone	9.522	82	171803	4.306	ng/u1	99
25) 2-Nitrophenol	9.704	139	43488	4.423	ng/u1	94
26) 2,4-Dimethylphenol	9.775	107	41871	2.316	ng/u1	99
27) Bis(2-Chloroethoxy)met...	10.004	93	111524	4.538	ng/u1	98
29) 2,4-Dichlorophenol	10.239	162	84760	4.425	ng/u1	94
30) Naphthalene	10.645	128	256170	4.569	ng/u1	99
32) 4-Chloroaniline	10.751	127	106016	4.557	ng/u1	99
33) Hexachlorobutadiene	10.939	225	63350	4.610	ng/u1	99
34) Caprolactam	11.533	113	24028m	4.419	ng/u1	
35) 4-Chloro-3-methylphenol	11.880	107	65827	3.827	ng/u1	95
36) 2-Methylnaphthalene	12.257	142	184967	4.419	ng/u1	99

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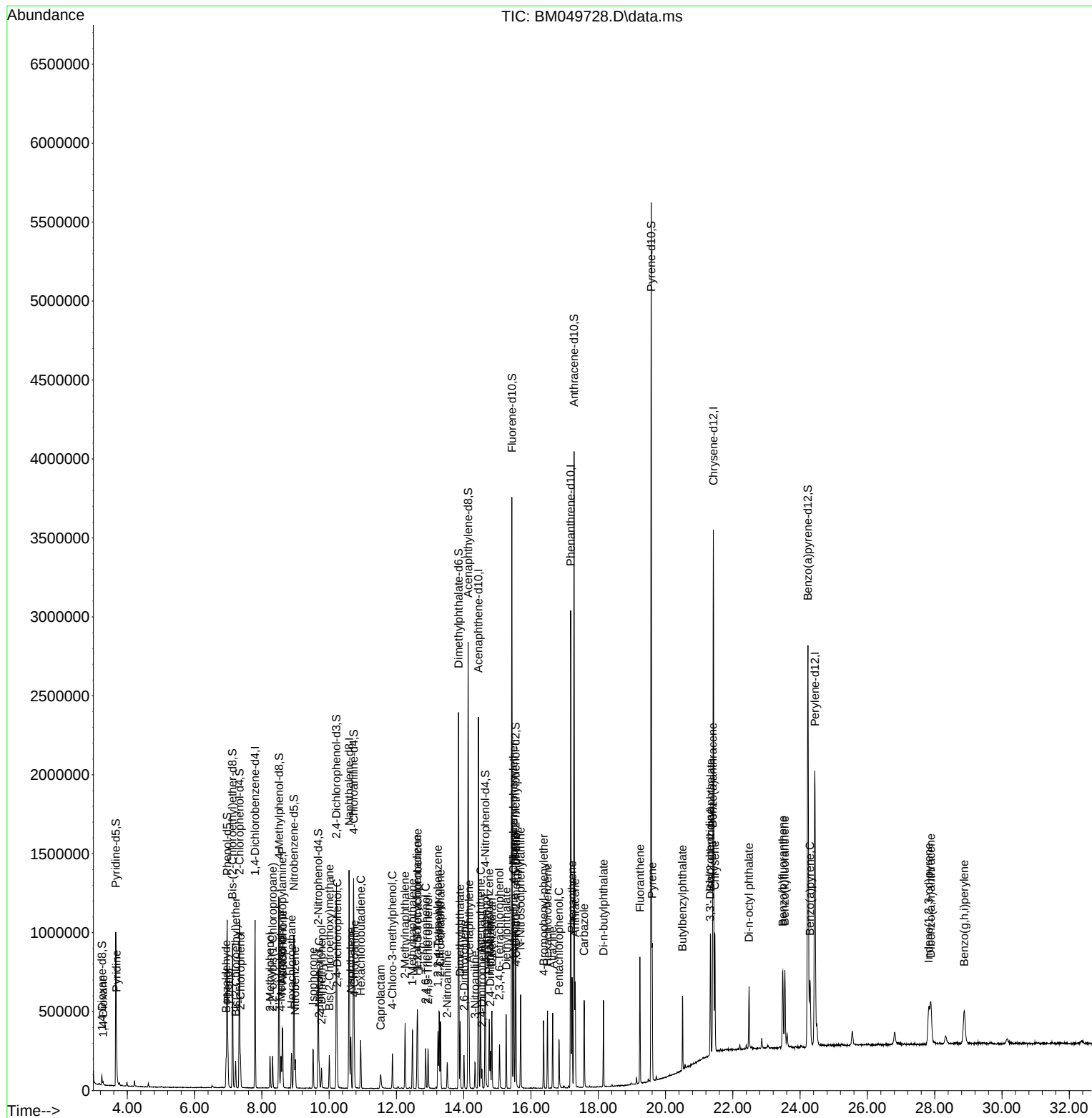
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.474	142	170441	4.127	ng/ul	99
39) 1,2,4,5-Tetrachloroben...	12.627	216	120442	4.197	ng/ul	99
40) Hexachlorocyclopentadiene	12.616	237	64614	3.750	ng/ul	98
41) 2,4,6-Trichlorophenol	12.868	196	61280	3.666	ng/ul	99
42) 2,4,5-Trichlorophenol	12.939	196	66906	3.726	ng/ul	98
43) 1,1'-Biphenyl	13.274	154	262022	4.461	ng/ul	99
44) 2-Chloronaphthalene	13.310	162	209480	4.505	ng/ul	99
45) 2-Nitroaniline	13.510	65	42381	3.722	ng/ul	93
47) Dimethylphthalate	13.892	163	267241	4.646	ng/ul	99
48) 2,6-Dinitrotoluene	14.010	165	39389	3.636	ng/ul	99
50) Acenaphthylene	14.157	152	313149	4.520	ng/ul	100
51) 3-Nitroaniline	14.339	138	36461	3.538	ng/ul	98
52) Acenaphthene	14.504	153	220143	4.415	ng/ul	98
53) 2,4-Dinitrophenol	14.545	184	24864	3.752	ng/ul	98
55) 4-Nitrophenol	14.651	109	34612	4.564	ng/ul	93
56) Dibenzofuran	14.839	168	322385	4.589	ng/ul	100
57) 2,4-Dinitrotoluene	14.792	165	63529	4.057	ng/ul	97
58) 2,3,4,6-Tetrachlorophenol	15.062	232	53454	3.617	ng/ul	95
59) Diethylphthalate	15.262	149	244781	4.423	ng/ul	99
61) Fluorene	15.486	166	261134	4.285	ng/ul	99
62) 4-Chlorophenyl-phenyle...	15.480	204	142602	4.223	ng/ul	97
63) 4-Nitroaniline	15.498	138	34393	3.529	ng/ul	98
66) 4,6-Dinitro-2-methylph...	15.557	198	47675	4.019	ng/ul#	85
67) N-Nitrosodiphenylamine	15.692	169	210529	4.070	ng/ul	98
68) 4-Bromophenyl-phenylether	16.374	248	80105	3.930	ng/ul	96
69) Hexachlorobenzene	16.492	284	96067	4.175	ng/ul	99
70) Atrazine	16.645	200	83334	4.185	ng/ul	98
71) Pentachlorophenol	16.833	266	53193	3.584	ng/ul	99
72) Phenanthrene	17.221	178	413547	4.287	ng/ul	99
74) Anthracene	17.315	178	406166	4.211	ng/ul	99
75) 1,2,3,4-Tetrachloroben...	13.233	216	111649	3.827	ng/uL	98
76) Pentachlorobenzene	14.757	250	108540	3.707	ng/uL	99
77) Carbazole	17.580	167	338380	4.089	ng/ul	97
78) Di-n-butylphthalate	18.156	149	376096	3.925	ng/ul	100
80) Fluoranthene	19.239	202	457245	4.107	ng/ul	100
82) Pyrene	19.603	202	512104	4.336	ng/ul	100
83) Butylbenzylphthalate	20.503	149	134140	3.552	ng/ul	96
84) 3,3'-Dichlorobenzidine	21.327	252	113792	3.393	ng/ul#	98
85) Benzo(a)anthracene	21.403	228	491379	4.406	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.339	149	213050	3.821	ng/ul	97
87) Chrysene	21.468	228	441363	4.399	ng/ul	99
89) Di-n-octyl phthalate	22.480	149	294744	2.852	ng/ul	100
90) Benzo(b)fluoranthene	23.485	252	419583	3.890	ng/ul	99
91) Benzo(k)fluoranthene	23.544	252	428995	3.973	ng/ul	98
93) Benzo(a)pyrene	24.291	252	396084	4.151	ng/ul	98
94) Indeno(1,2,3-cd)pyrene	27.820	276	451213	4.402	ng/ul	97
95) Dibenzo(a,h)anthracene	27.885	278	364875	4.386	ng/ul	98
96) Benzo(g,h,i)perylene	28.879	276	352584	4.634	ng/ul	100

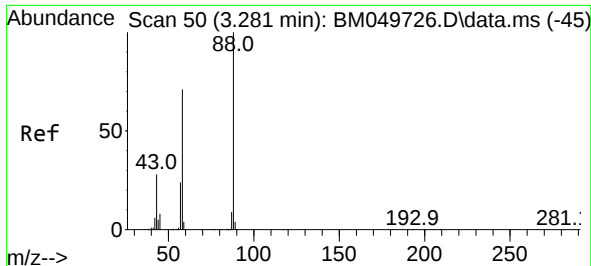
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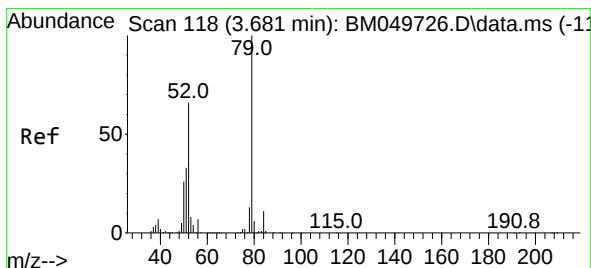
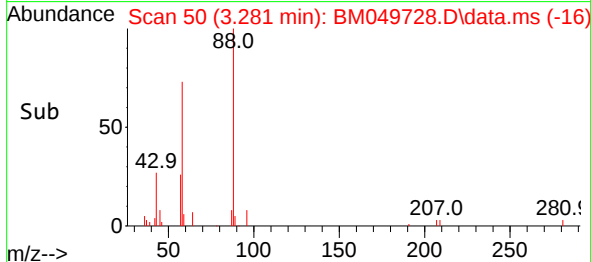
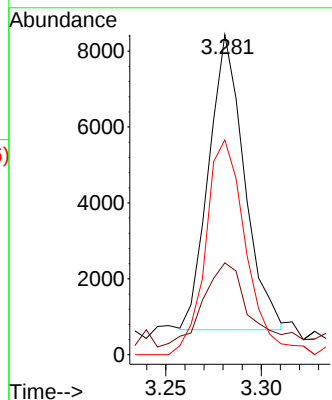
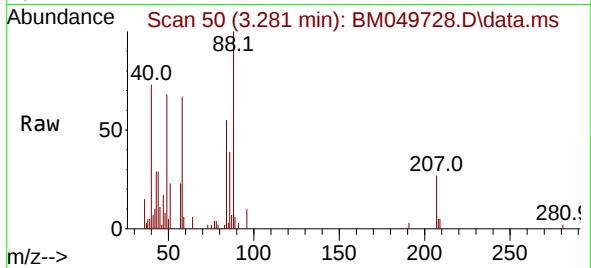




#2
1,4-Dioxane
Concen: 1.366 ng/uL m
RT: 3.281 min Scan# 50
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

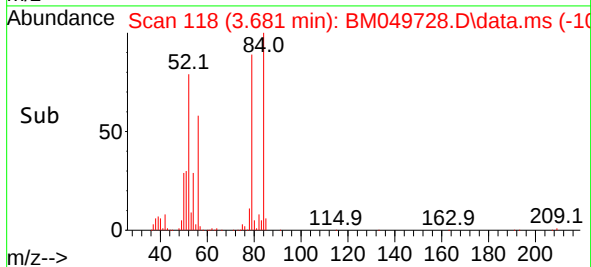
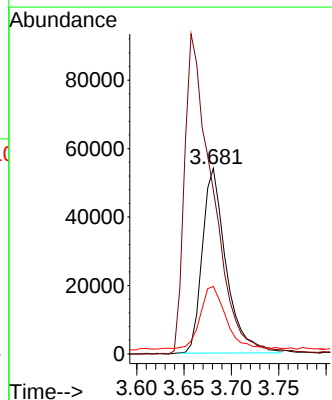
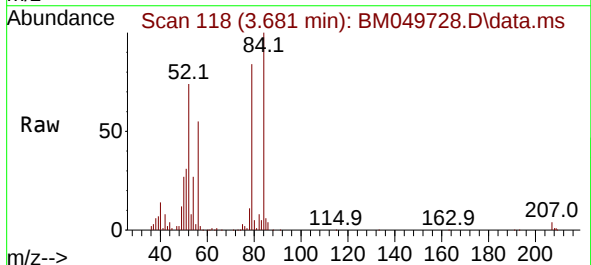
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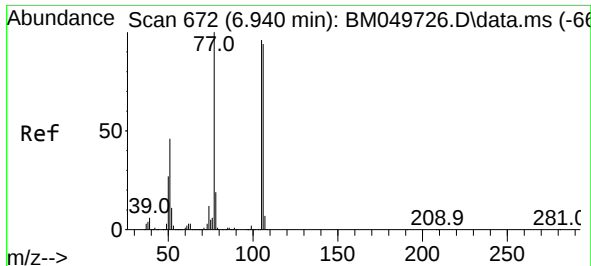
Tgt Ion: 88 Resp: 10076
Ion Ratio Lower Upper
88 100
43 28.7 22.8 34.2
58 67.1 50.6 76.0



#5
Pyridine
Concen: 4.430 ng/uL
RT: 3.681 min Scan# 118
Delta R.T. 0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion: 79 Resp: 94097
Ion Ratio Lower Upper
79 100
52 88.3 56.5 84.7#
51 36.4 26.3 39.5

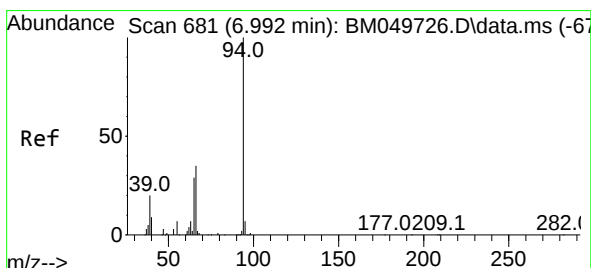
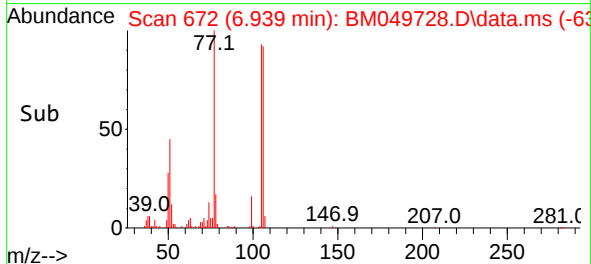
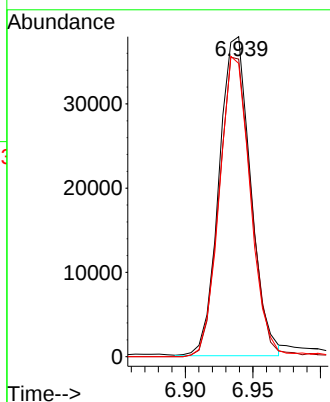
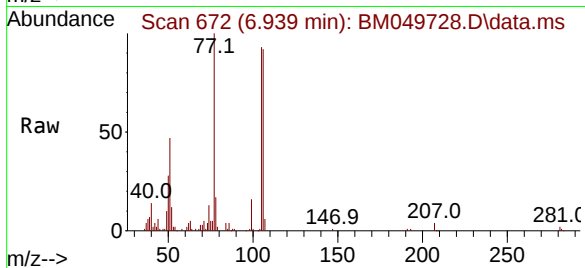




#6
Benzaldehyde
Concen: 5.007 ng/ul m
RT: 6.939 min Scan# 616
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

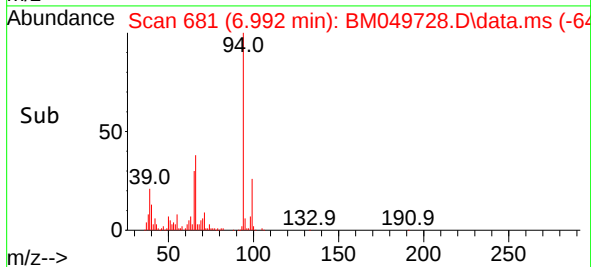
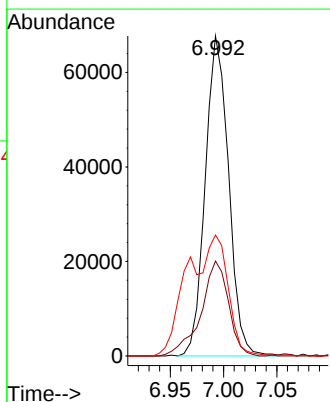
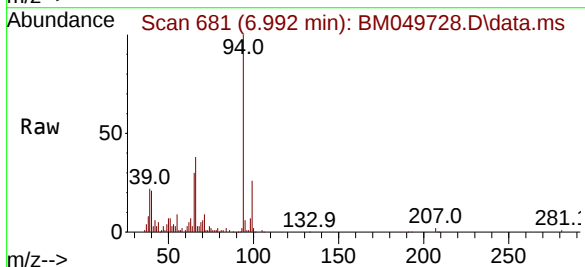
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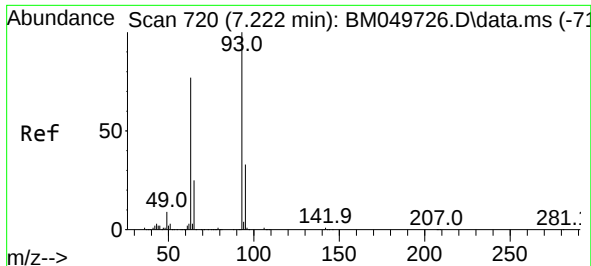
Tgt Ion: 77 Resp: 61637
Ion Ratio Lower Upper
77 100
105 93.0 76.2 114.2
106 91.7 72.6 108.8



#8
Phenol
Concen: 4.324 ng/ul
RT: 6.992 min Scan# 681
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion: 94 Resp: 103371
Ion Ratio Lower Upper
94 100
65 29.6 23.3 34.9
66 37.8 29.5 44.3

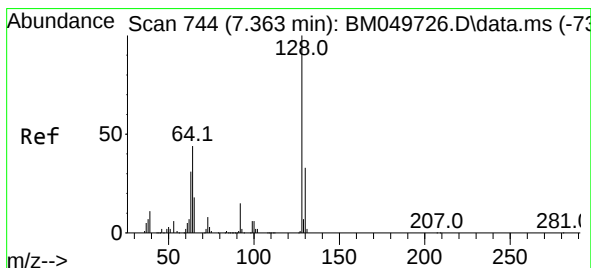
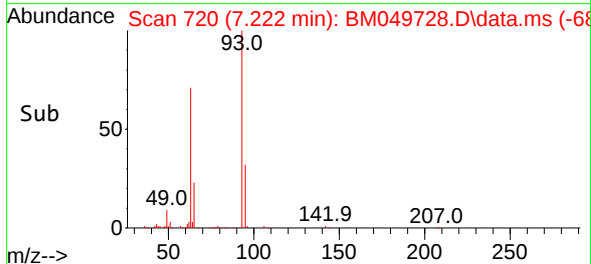
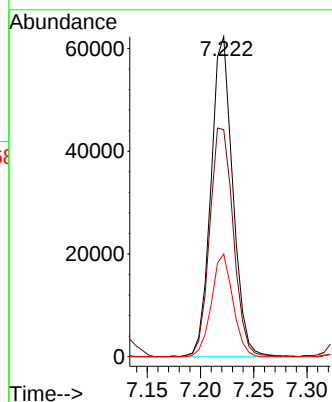
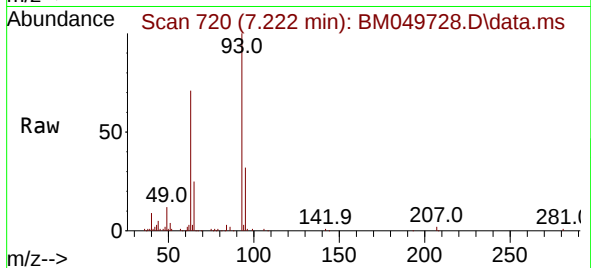




#10
 Bis(2-Chloroethyl)ether
 Concen: 4.623 ng/ul
 RT: 7.222 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

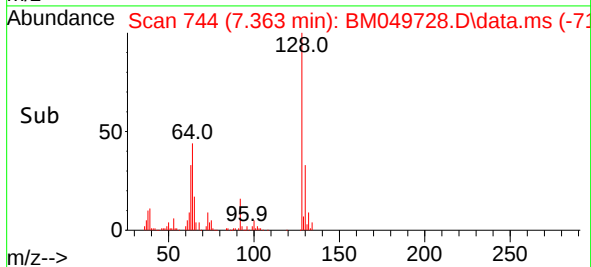
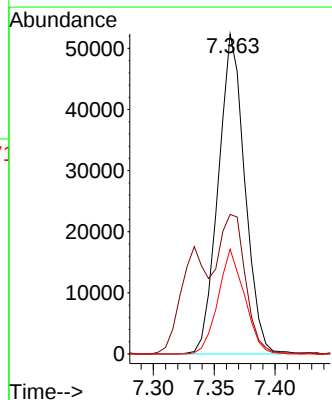
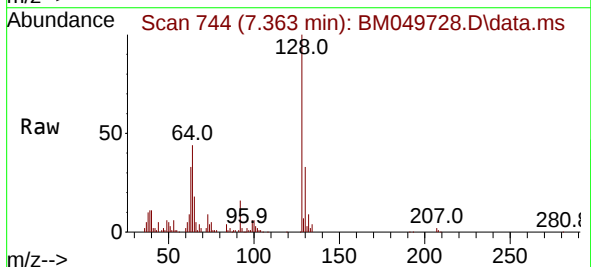
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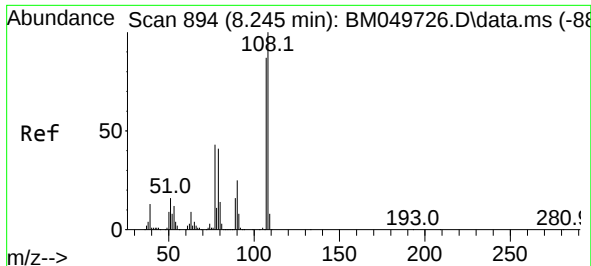
Tgt Ion:	93	Resp:	88594
Ion	Ratio	Lower	Upper
93	100		
63	71.0	60.1	90.1
95	32.1	26.0	39.0



#12
 2-Chlorophenol
 Concen: 4.401 ng/ul
 RT: 7.363 min Scan# 744
 Delta R.T. -0.000 min
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Tgt Ion:	128	Resp:	79428
Ion	Ratio	Lower	Upper
128	100		
64	43.6	36.6	54.8
130	32.7	25.5	38.3

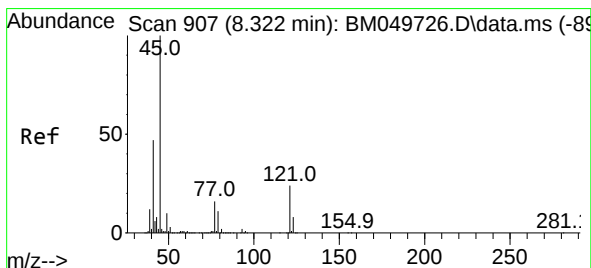
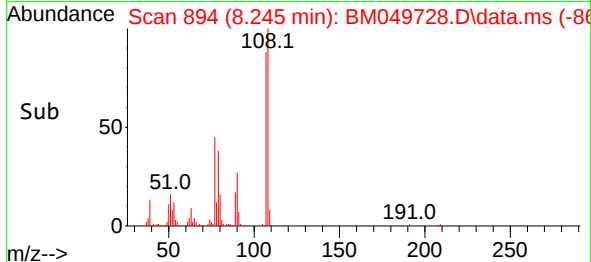
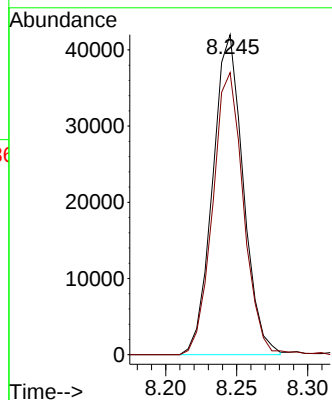
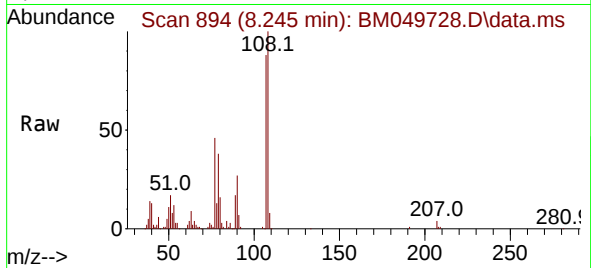




#13
2-Methylphenol
Concen: 3.603 ng/ul
RT: 8.245 min Scan# 894
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

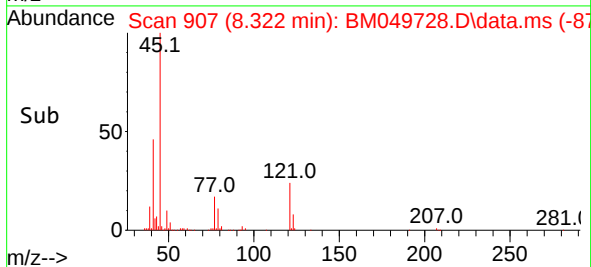
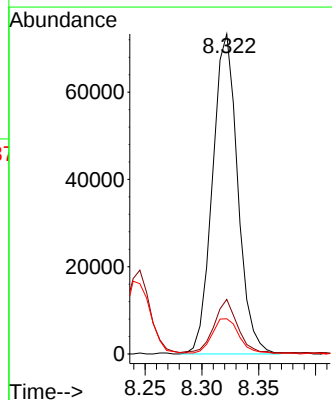
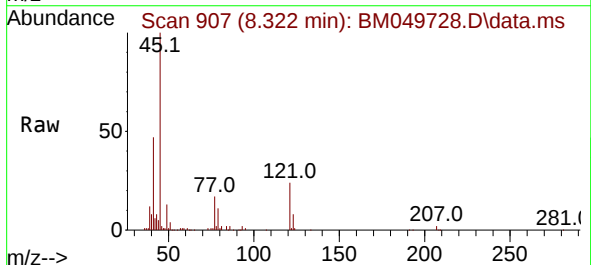
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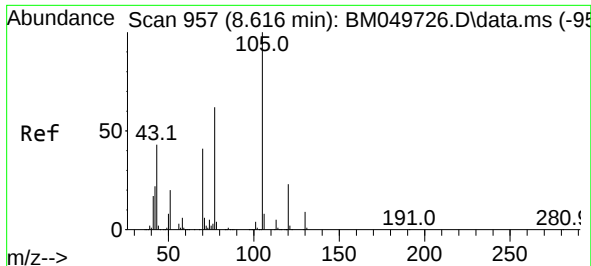
Tgt Ion:108 Resp: 62887
Ion Ratio Lower Upper
108 100
107 88.2 70.0 105.0



#14
2,2'-oxybis(1-Chloropropane)
Concen: 4.746 ng/ul
RT: 8.322 min Scan# 907
Delta R.T. -0.000 min
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Tgt Ion: 45 Resp: 113318
Ion Ratio Lower Upper
45 100
77 17.0 12.9 19.3
79 11.0 9.0 13.6

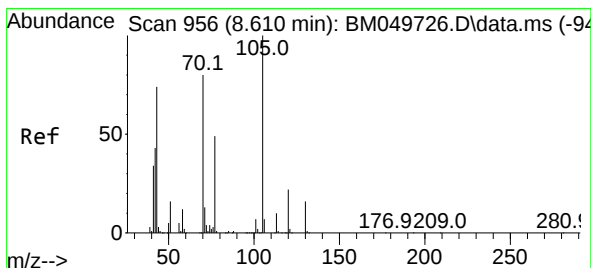
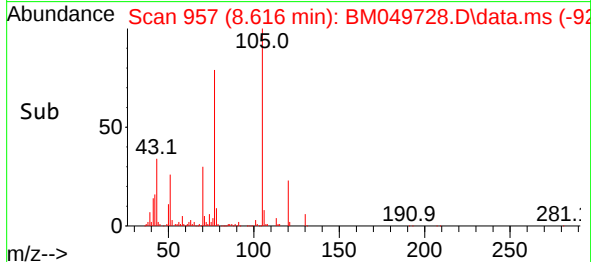
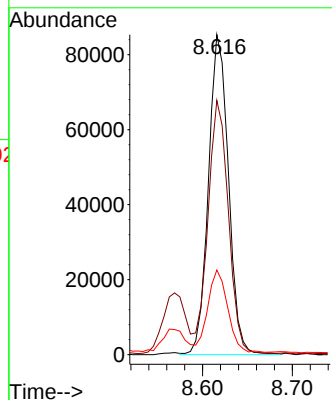
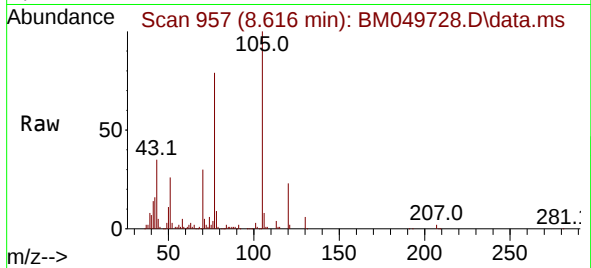




#16
Acetophenone
Concen: 4.494 ng/ul
RT: 8.616 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

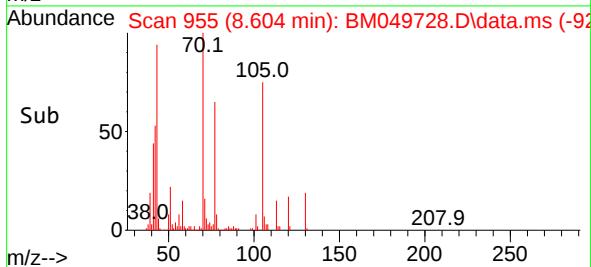
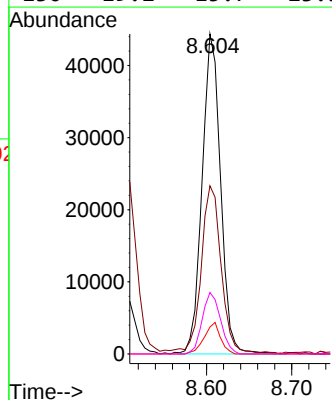
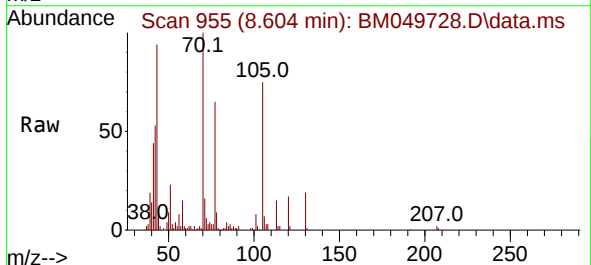
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

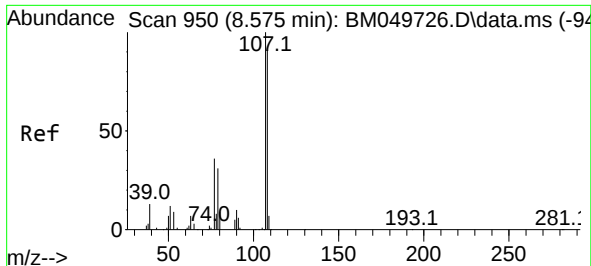
Tgt Ion:	105	Resp:	132294
Ion Ratio	Lower	Upper	
105	100		
77	79.4	63.0	94.6
51	26.5	20.6	30.8



#17
N-Nitroso-di-n-propylamine
Concen: 4.387 ng/ul
RT: 8.604 min Scan# 955
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:	70	Resp:	66739
Ion Ratio	Lower	Upper	
70	100		
42	52.6	42.2	63.2
101	8.4	7.9	11.9
130	19.2	15.7	23.5

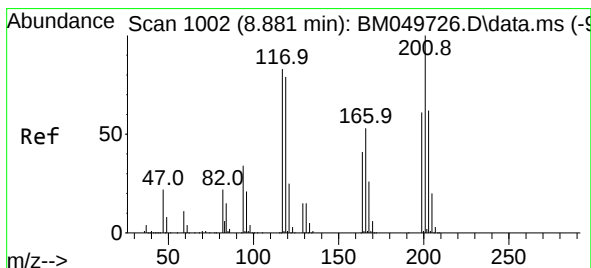
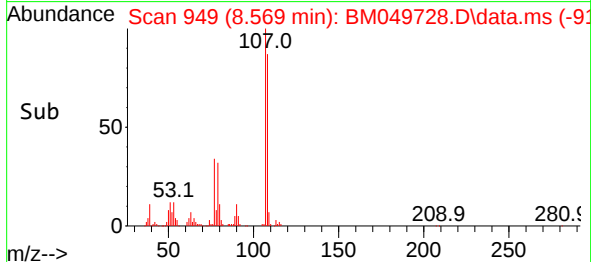
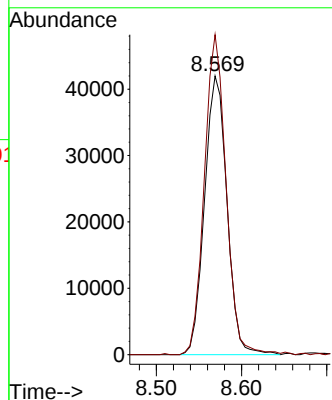
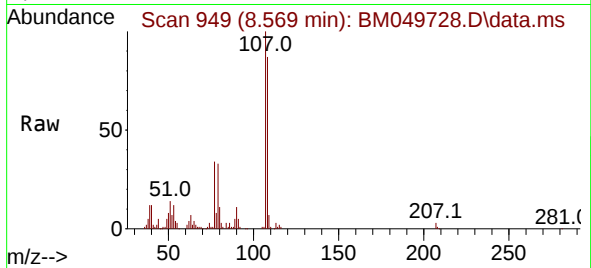




#18
4-Methylphenol
Concen: 3.997 ng/ul
RT: 8.569 min Scan# 949
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

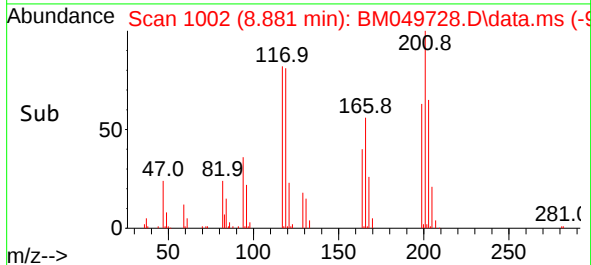
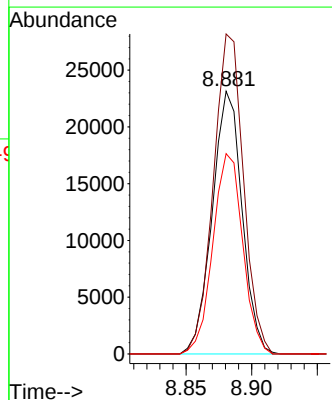
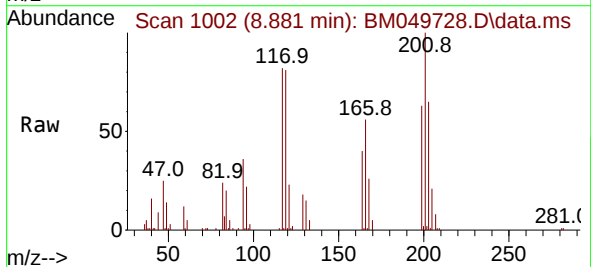
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

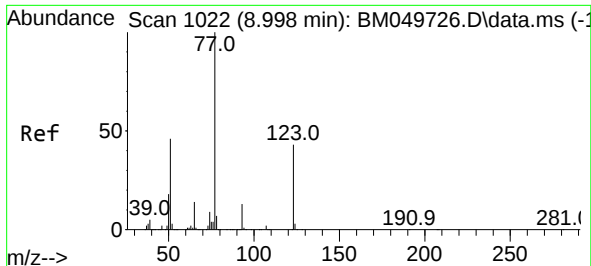
Tgt Ion:108 Resp: 76920
Ion Ratio Lower Upper
108 100
107 114.8 87.0 130.6



#19
Hexachloroethane
Concen: 4.679 ng/ul
RT: 8.881 min Scan# 1002
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:117 Resp: 36683
Ion Ratio Lower Upper
117 100
201 121.8 95.5 143.3
199 76.3 57.8 86.8

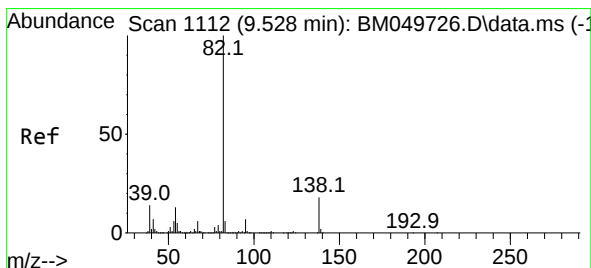
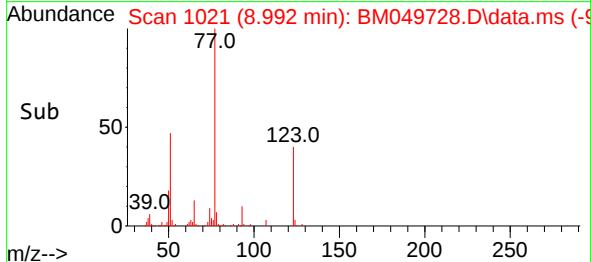
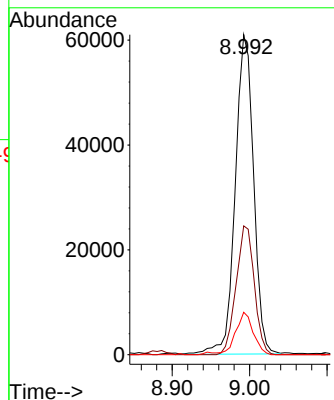
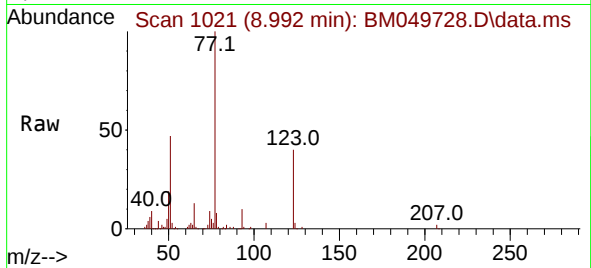




#22
Nitrobenzene
Concen: 4.886 ng/ul
RT: 8.992 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

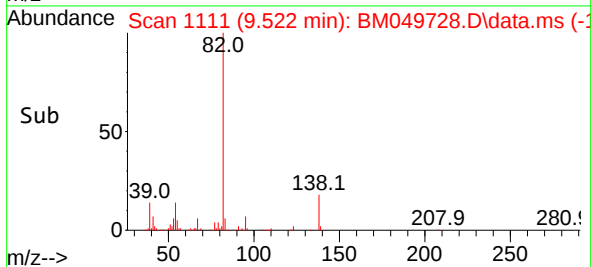
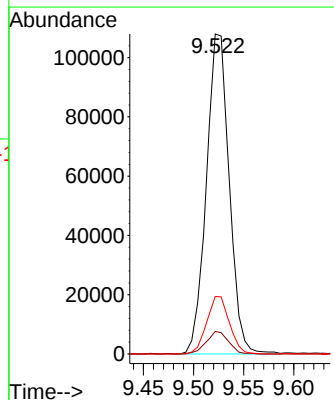
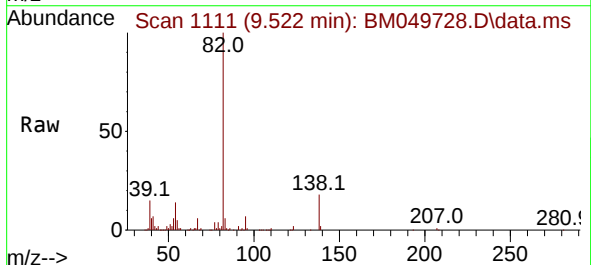
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

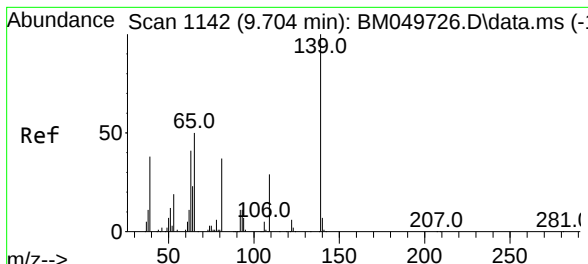
Tgt Ion: 77 Resp: 100245
Ion Ratio Lower Upper
77 100
123 40.2 35.8 53.8
65 13.2 10.4 15.6



#23
Isophorone
Concen: 4.306 ng/ul
RT: 9.522 min Scan# 1111
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion: 82 Resp: 171803
Ion Ratio Lower Upper
82 100
95 7.1 5.5 8.3
138 18.0 14.6 22.0

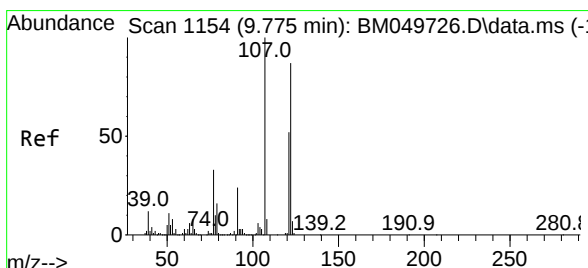
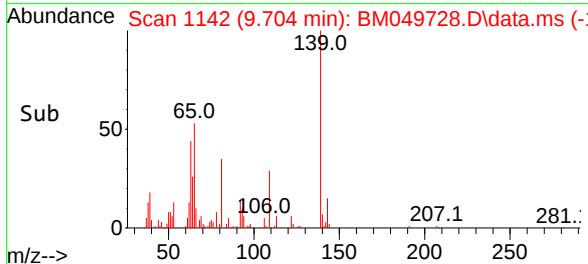
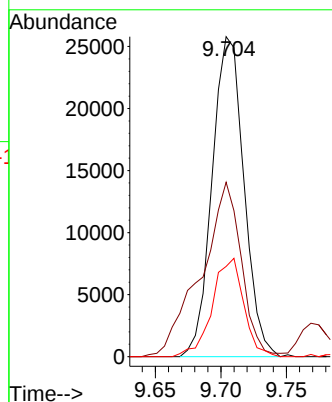
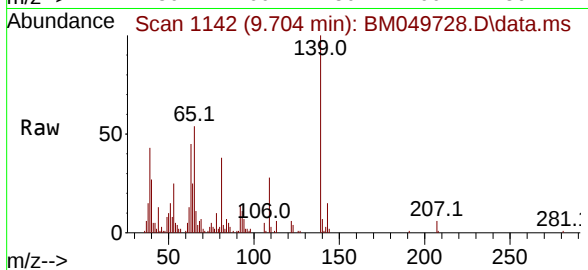




#25
2-Nitrophenol
Concen: 4.423 ng/ul
RT: 9.704 min Scan# 1142
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

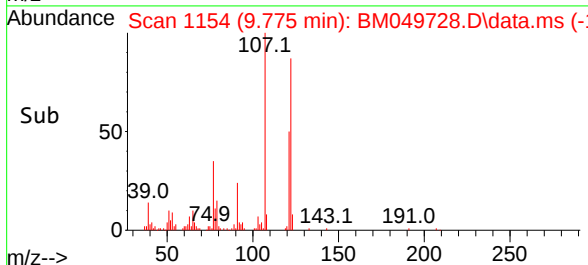
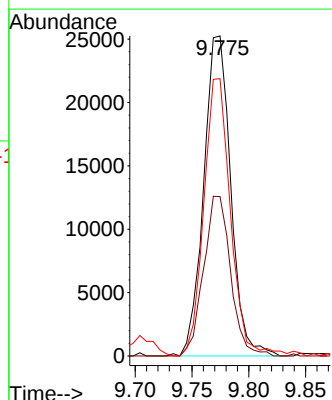
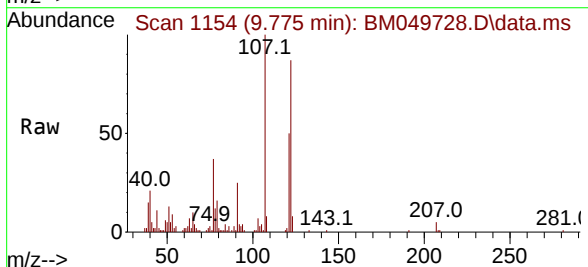
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

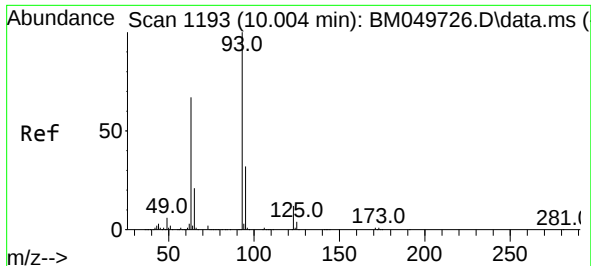
Tgt Ion:	139	Resp:	43488
Ion	Ratio	Lower	Upper
139	100		
65	54.5	39.0	58.4
109	28.2	22.7	34.1



#26
2,4-Dimethylphenol
Concen: 2.316 ng/ul
RT: 9.775 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:	107	Resp:	41871
Ion	Ratio	Lower	Upper
107	100		
121	49.8	40.4	60.6
122	86.6	69.6	104.4

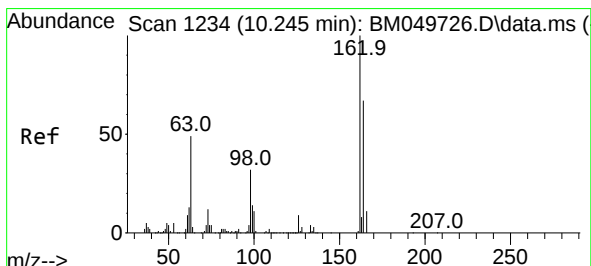
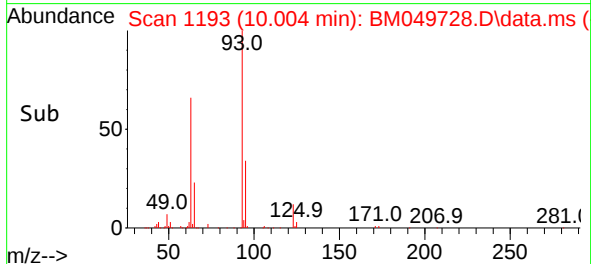
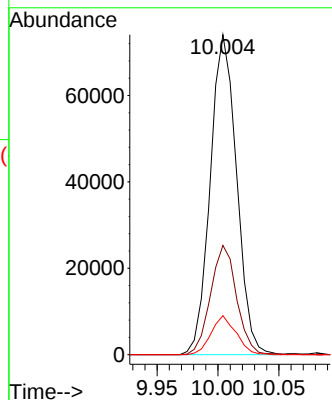
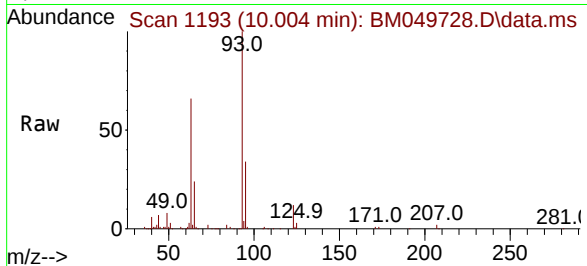




#27
 Bis(2-Chloroethoxy)methane
 Concen: 4.538 ng/ul
 RT: 10.004 min Scan# 1193
 Delta R.T. -0.000 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

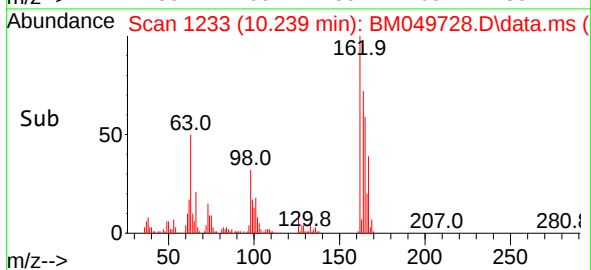
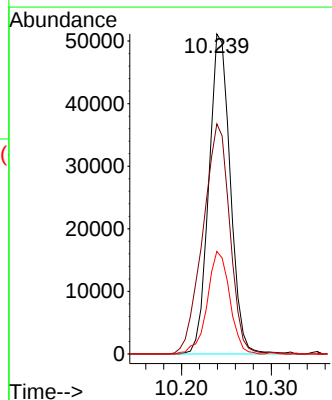
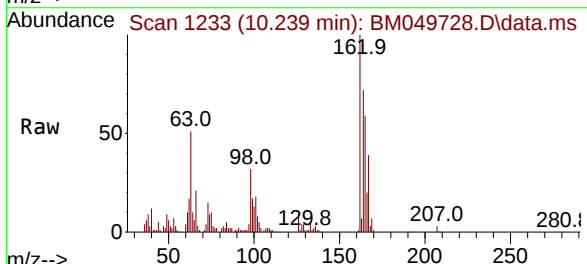
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

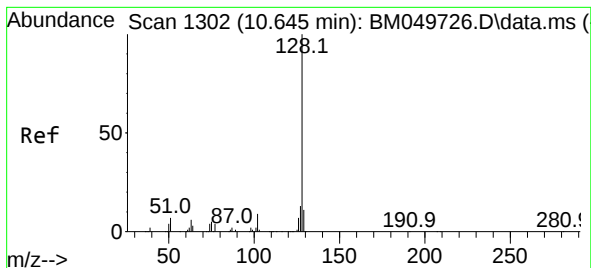
Tgt Ion: 93	Resp: 111524
Ion Ratio	Lower Upper
93 100	
95 34.1	26.2 39.2
123 12.2	9.3 13.9



#29
 2,4-Dichlorophenol
 Concen: 4.425 ng/ul
 RT: 10.239 min Scan# 1233
 Delta R.T. -0.006 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

Tgt Ion:162	Resp: 84760		
Ion Ratio	Lower	Upper	
162 100			
164 71.9	52.2	78.2	
98 32.1	24.9	37.3	

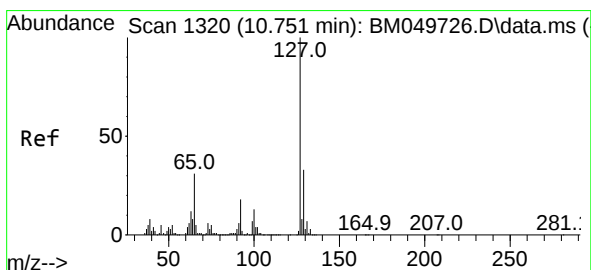
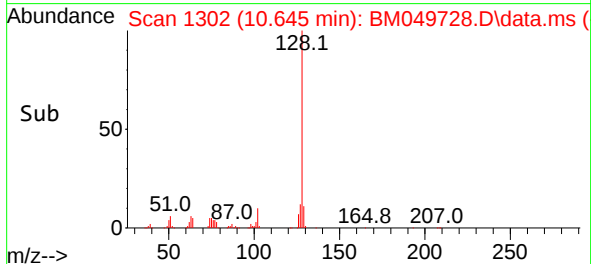
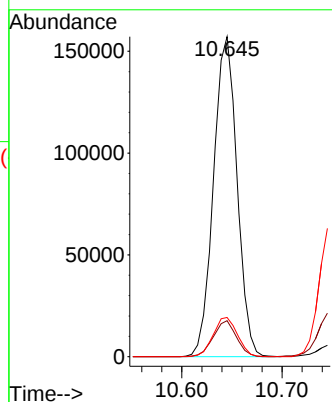
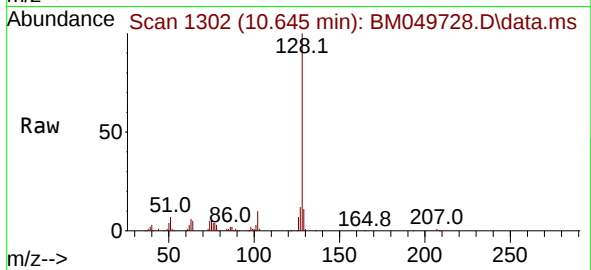




#30
Naphthalene
Concen: 4.569 ng/ul
RT: 10.645 min Scan# 1302
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

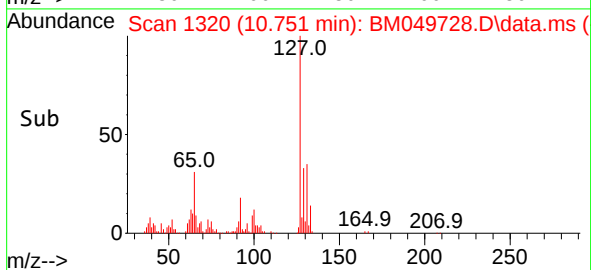
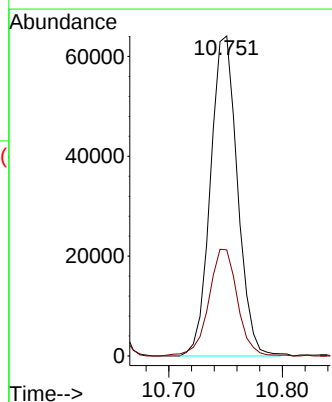
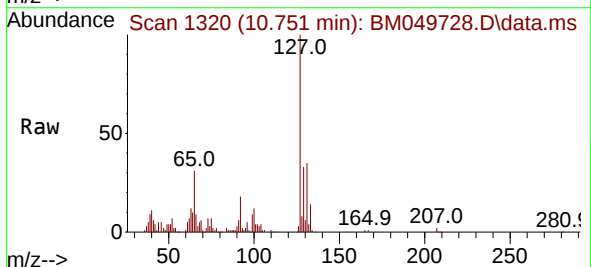
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

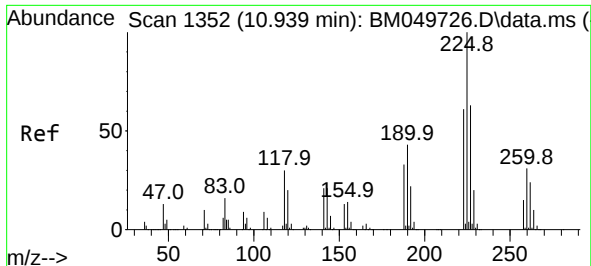
Tgt Ion:128 Resp: 256170
Ion Ratio Lower Upper
128 100
129 11.3 8.6 13.0
127 12.3 10.2 15.4



#32
4-Chloroaniline
Concen: 4.557 ng/ul
RT: 10.751 min Scan# 1320
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:127 Resp: 106016
Ion Ratio Lower Upper
127 100
129 33.2 26.0 39.0

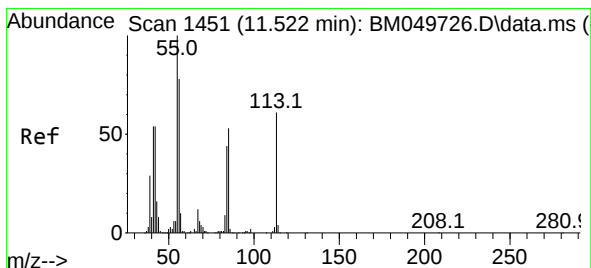
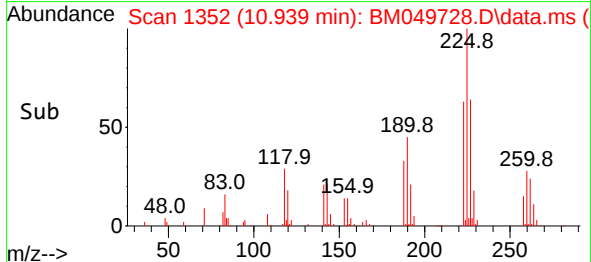
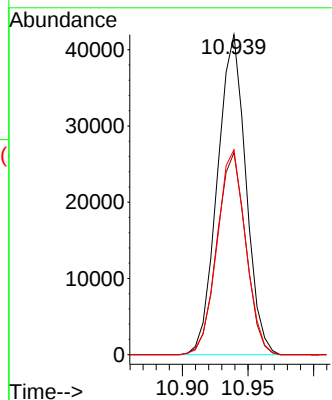
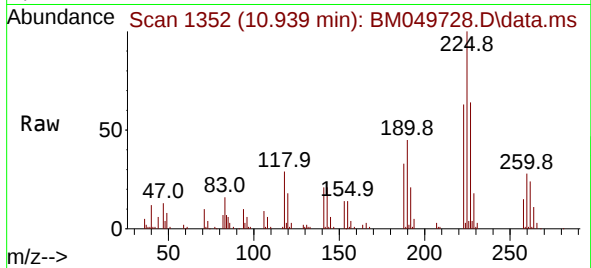




#33
Hexachlorobutadiene
Concen: 4.610 ng/ul
RT: 10.939 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

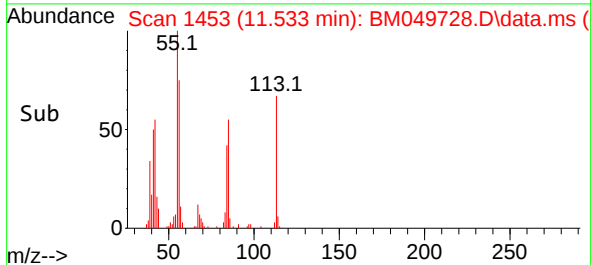
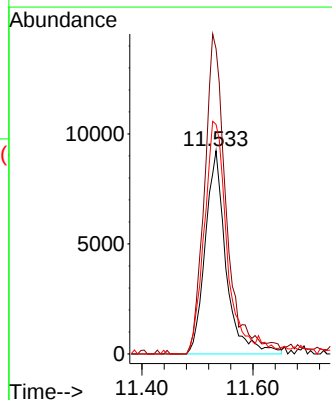
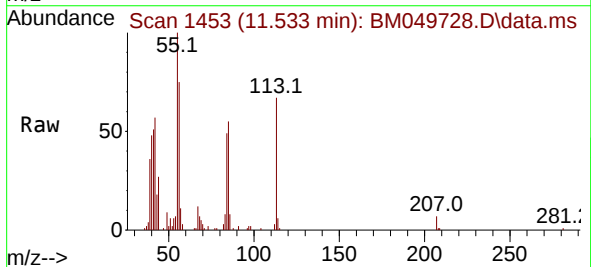
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

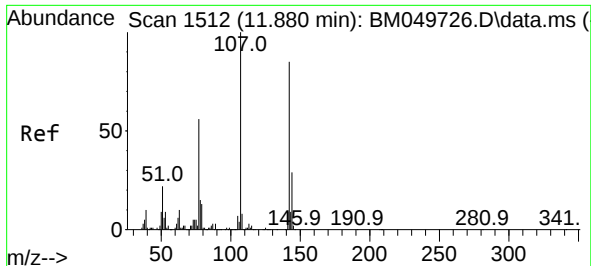
Tgt Ion:225 Resp: 63350
Ion Ratio Lower Upper
225 100
223 63.1 51.4 77.0
227 64.1 50.6 76.0



#34
Caprolactam
Concen: 4.419 ng/ul m
RT: 11.533 min Scan# 1453
Delta R.T. 0.012 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:113 Resp: 24028
Ion Ratio Lower Upper
113 100
55 150.2 131.8 197.6
56 113.0 98.9 148.3

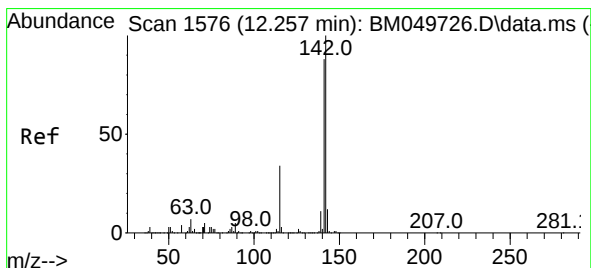
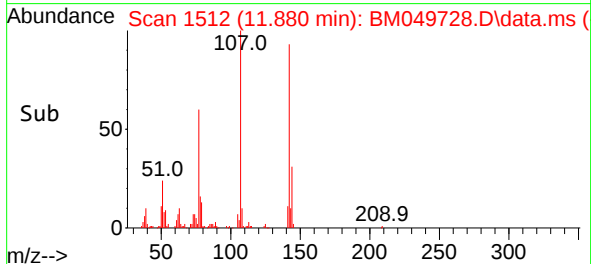
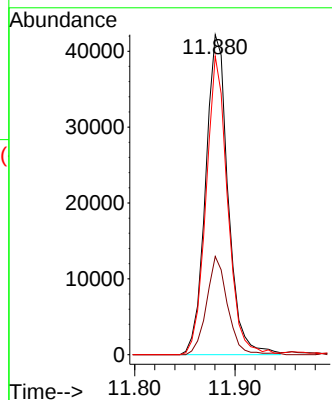
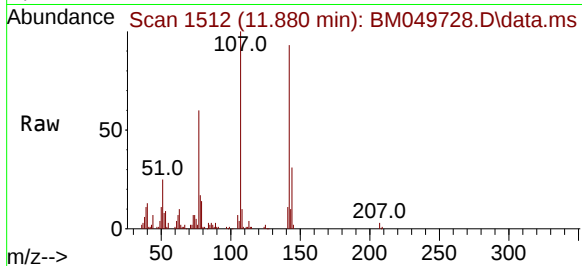




#35
4-Chloro-3-methylphenol
Concen: 3.827 ng/ul
RT: 11.880 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

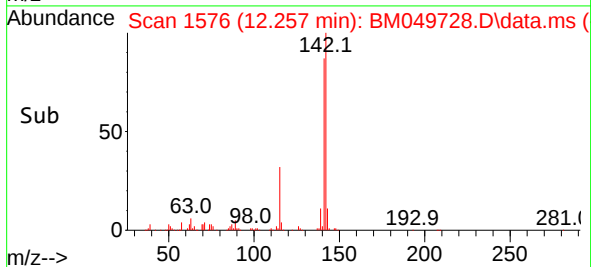
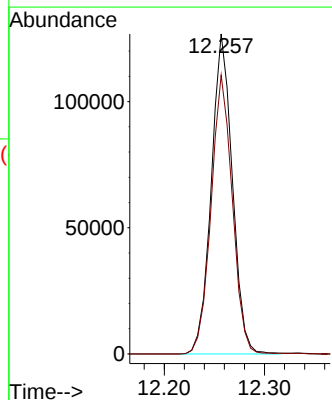
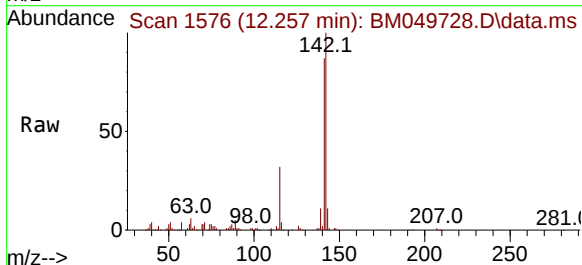
Instrument : BNA_M
ClientSampleId : MDL-SOIL-QT1-2025-01

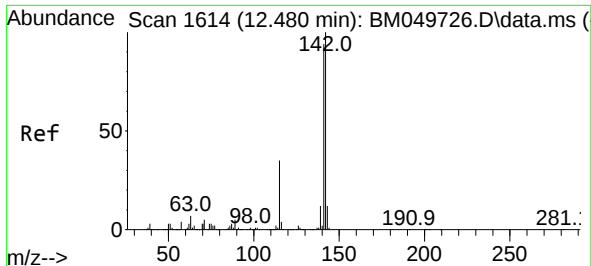
Tgt Ion:107 Resp: 65827
Ion Ratio Lower Upper
107 100
144 30.7 22.6 33.8
142 93.3 70.7 106.1



#36
2-Methylnaphthalene
Concen: 4.419 ng/ul
RT: 12.257 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:142 Resp: 184967
Ion Ratio Lower Upper
142 100
141 87.2 69.4 104.0

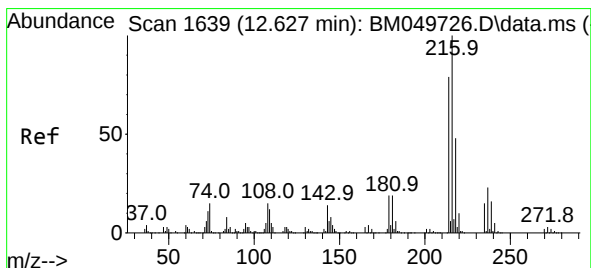
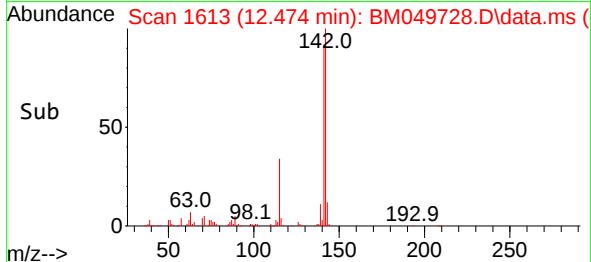
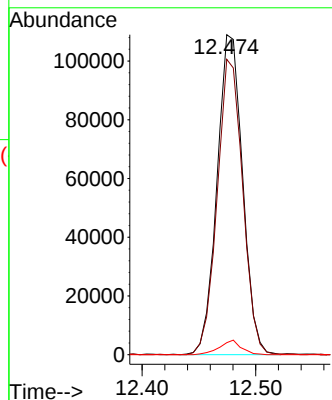
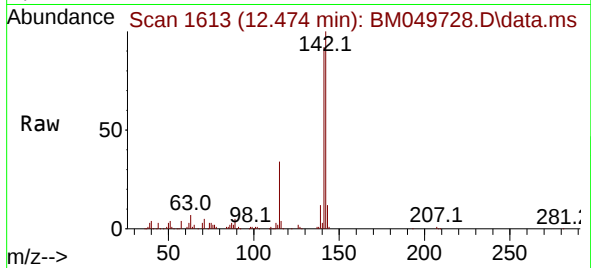




#37
1-Methylnaphthalene
Concen: 4.127 ng/ul
RT: 12.474 min Scan# 1613
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

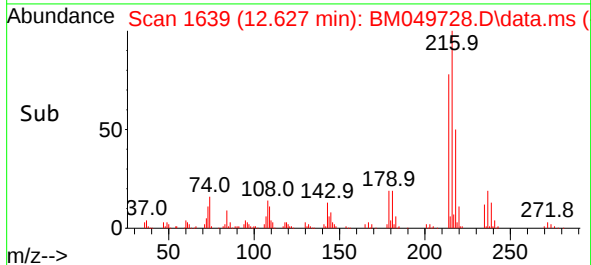
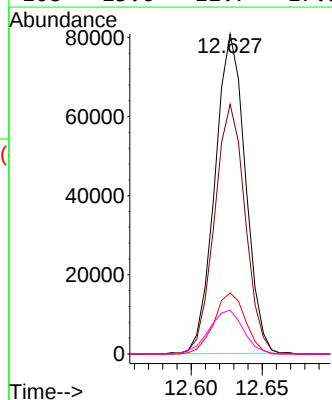
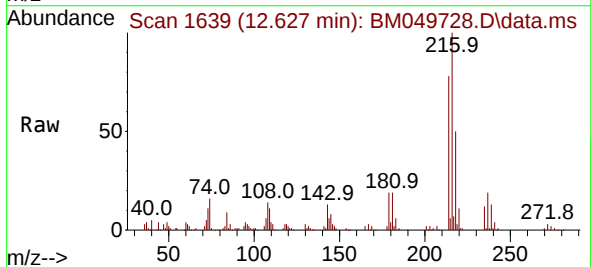
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

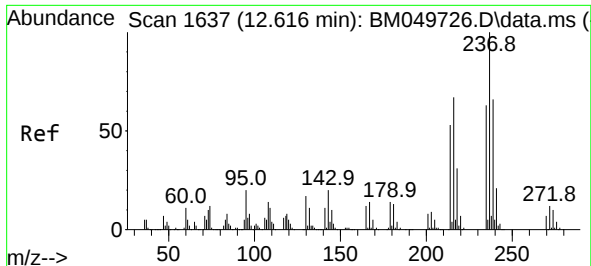
Tgt Ion:142 Resp: 170441
Ion Ratio Lower Upper
142 100
141 92.3 73.2 109.8
116 3.7 2.9 4.3



#39
1,2,4,5-Tetrachlorobenzene
Concen: 4.197 ng/ul
RT: 12.627 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:216 Resp: 120442
Ion Ratio Lower Upper
216 100
214 78.0 62.7 94.1
179 19.1 15.7 23.5
108 13.6 11.7 17.5

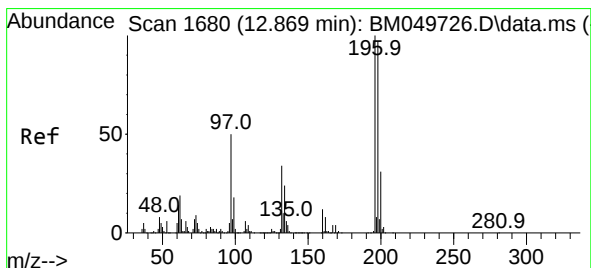
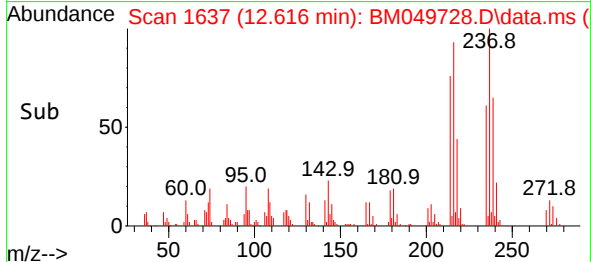
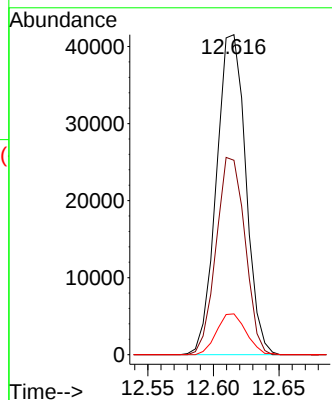
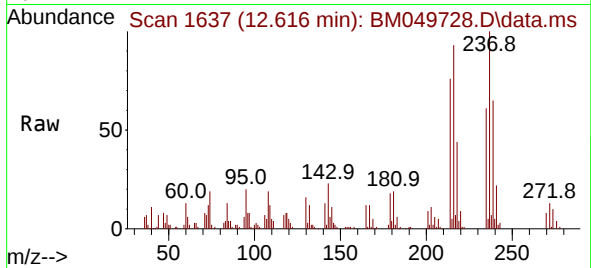




#40
Hexachlorocyclopentadiene
Concen: 3.750 ng/ul
RT: 12.616 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

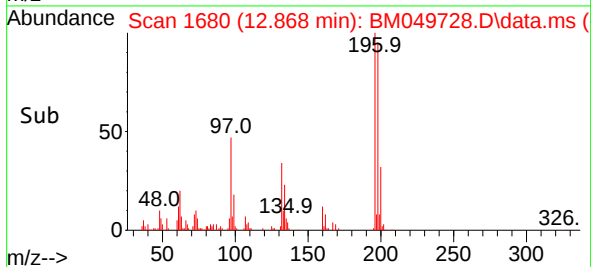
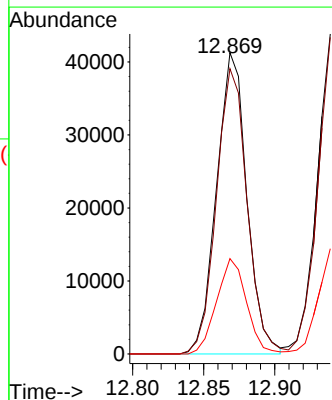
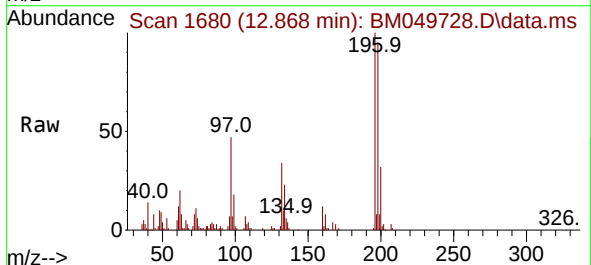
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

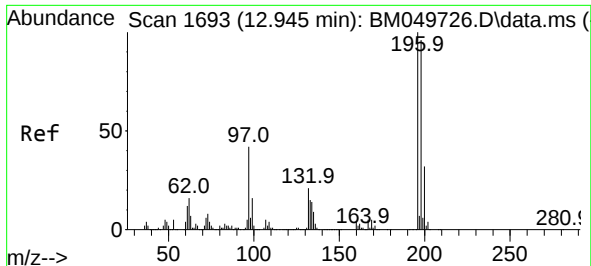
Tgt Ion:237 Resp: 64614
Ion Ratio Lower Upper
237 100
235 60.7 50.0 75.0
272 12.7 10.2 15.4



#41
2,4,6-Trichlorophenol
Concen: 3.666 ng/ul
RT: 12.868 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:196 Resp: 61280
Ion Ratio Lower Upper
196 100
198 94.7 76.4 114.6
200 31.6 24.5 36.7

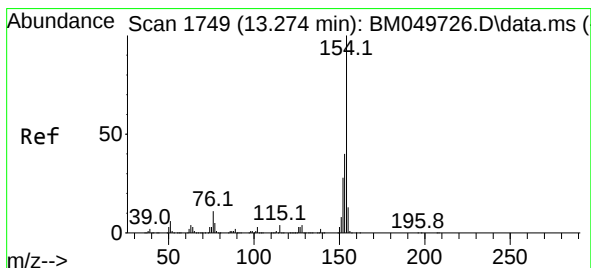
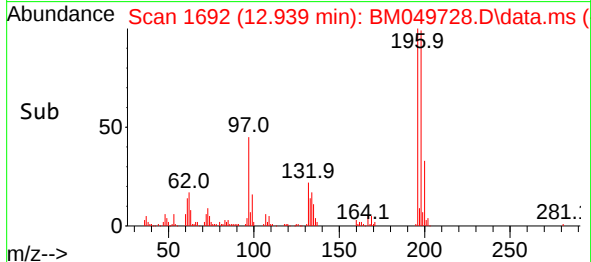
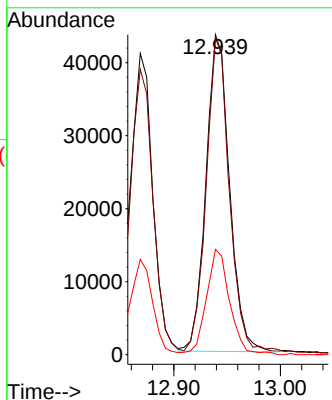
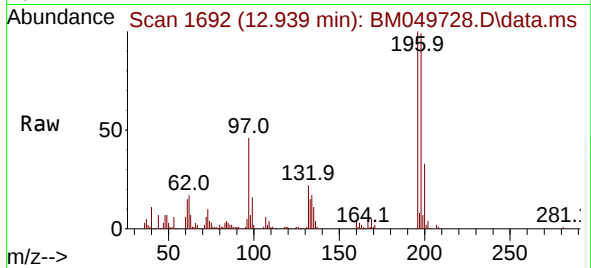




#42
2,4,5-Trichlorophenol
Concen: 3.726 ng/ul
RT: 12.939 min Scan# 1692
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

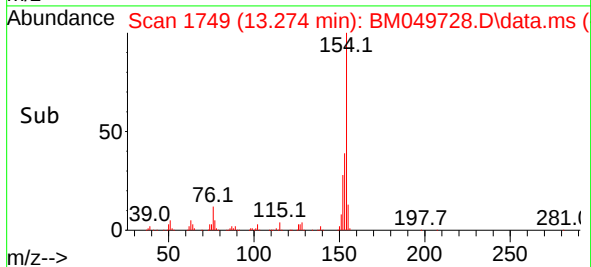
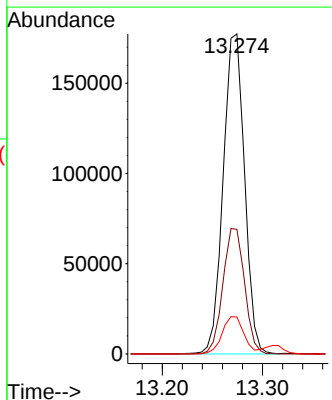
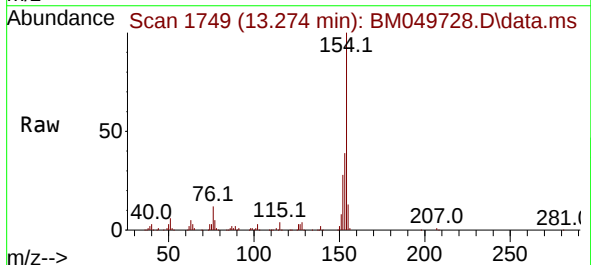
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

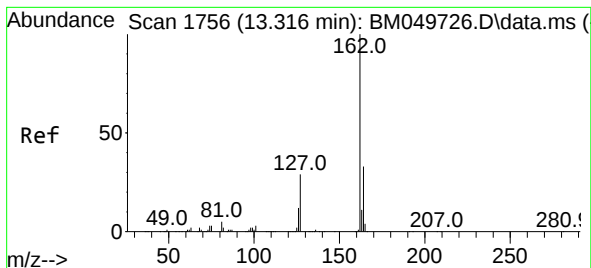
Tgt Ion:196 Resp: 66906
Ion Ratio Lower Upper
196 100
198 98.9 77.2 115.8
200 32.9 25.8 38.6



#43
1,1'-Biphenyl
Concen: 4.461 ng/ul
RT: 13.274 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:154 Resp: 262022
Ion Ratio Lower Upper
154 100
153 39.0 31.6 47.4
76 11.6 8.7 13.1





#44

2-Chloronaphthalene

Concen: 4.505 ng/ul

RT: 13.310 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

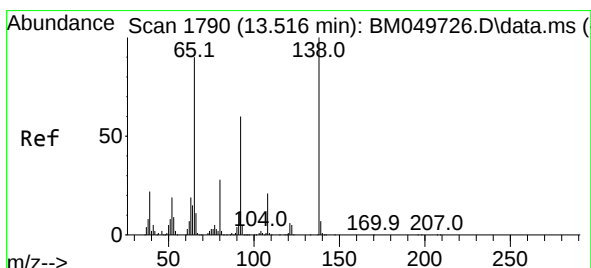
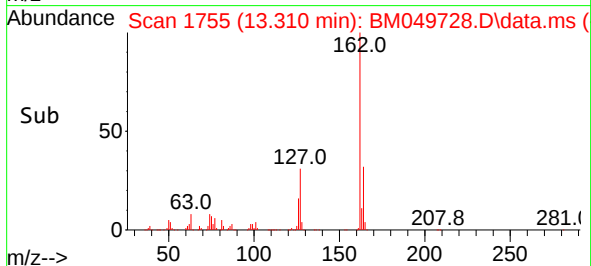
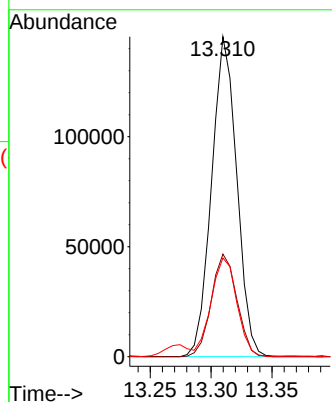
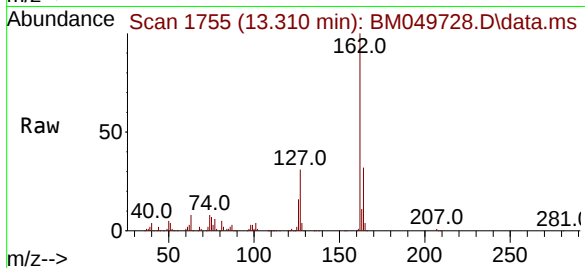
Tgt Ion:162 Resp: 209480

Ion Ratio Lower Upper

162 100

164 32.1 25.8 38.8

127 30.9 25.1 37.7



#45

2-Nitroaniline

Concen: 3.722 ng/ul

RT: 13.510 min Scan# 1789

Delta R.T. -0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

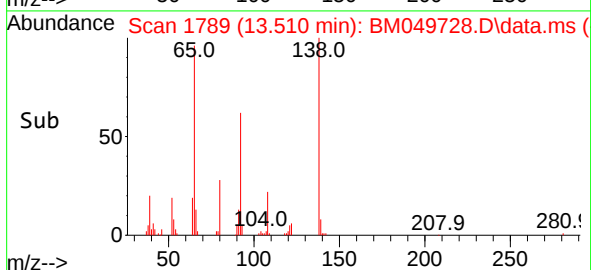
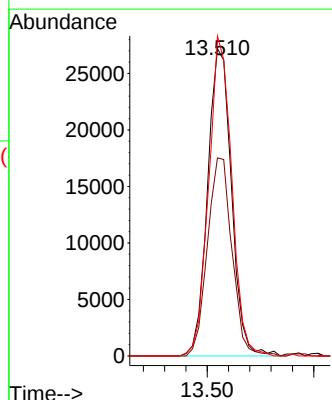
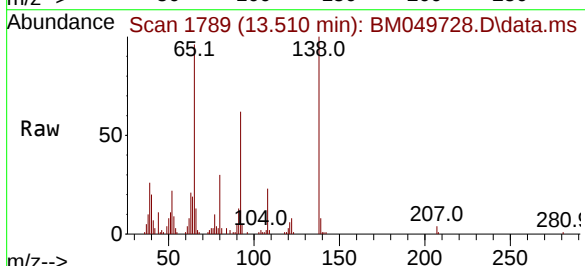
Tgt Ion: 65 Resp: 42381

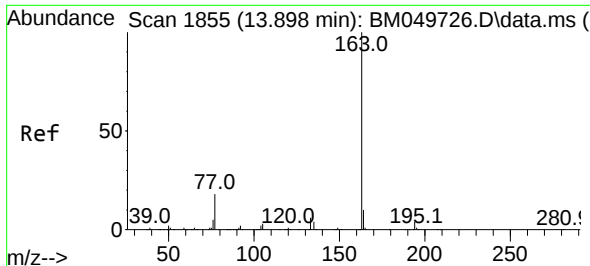
Ion Ratio Lower Upper

65 100

92 64.5 55.4 83.0

138 104.1 90.0 135.0

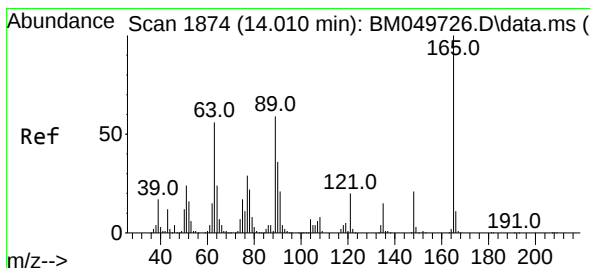
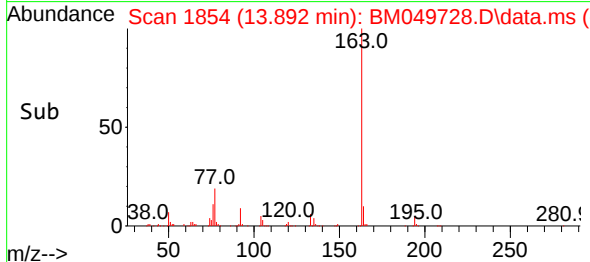
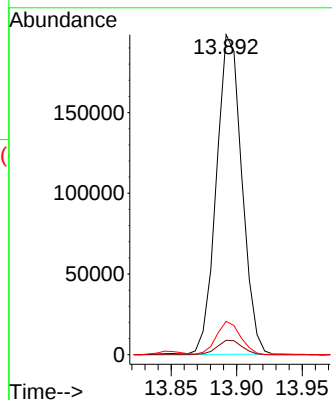
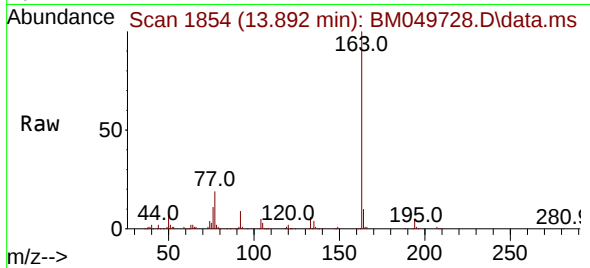




#47
Dimethylphthalate
Concen: 4.646 ng/ul
RT: 13.892 min Scan# 1854
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

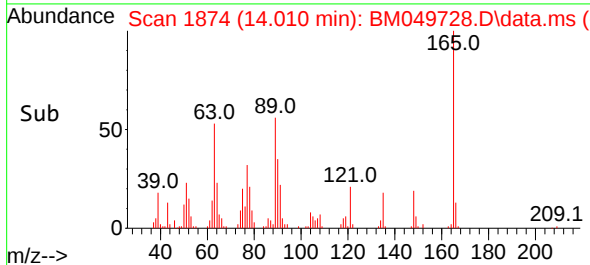
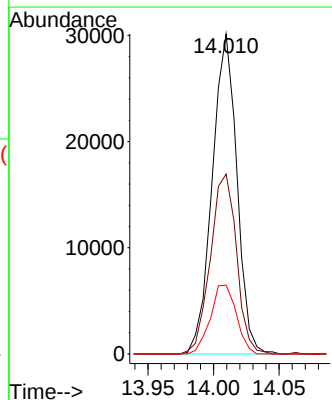
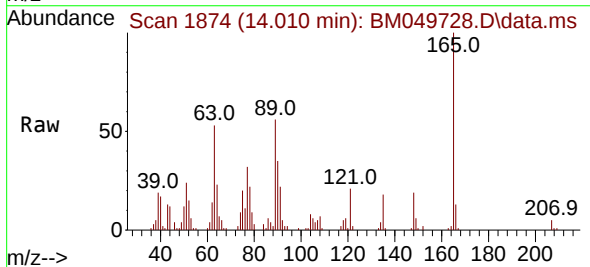
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

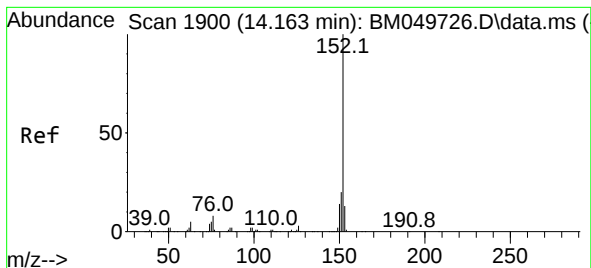
Tgt Ion:163 Resp: 267241
Ion Ratio Lower Upper
163 100
194 4.5 3.5 5.3
164 10.4 8.2 12.2



#48
2,6-Dinitrotoluene
Concen: 3.636 ng/ul
RT: 14.010 min Scan# 1874
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:165 Resp: 39389
Ion Ratio Lower Upper
165 100
89 56.2 44.8 67.2
121 21.5 15.4 23.2





#50

Acenaphthylene

Concen: 4.520 ng/ul

RT: 14.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

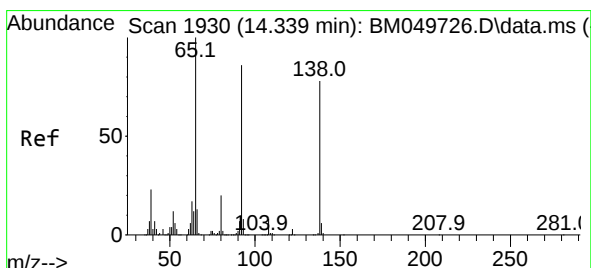
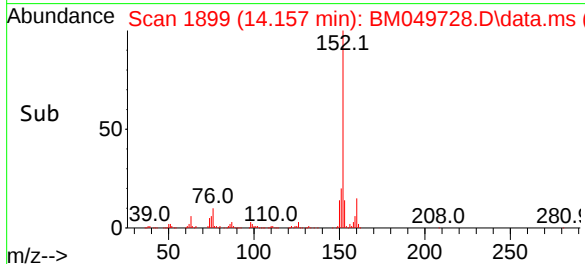
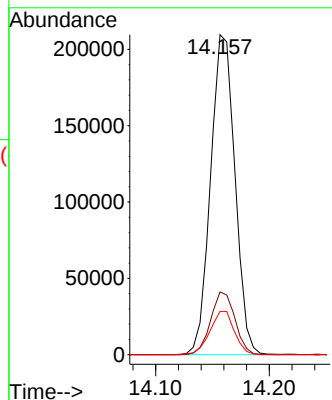
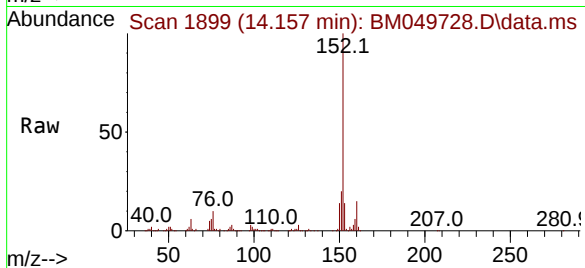
Tgt Ion:152 Resp: 313149

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.5 10.5 15.7



#51

3-Nitroaniline

Concen: 3.538 ng/ul

RT: 14.339 min Scan# 1930

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

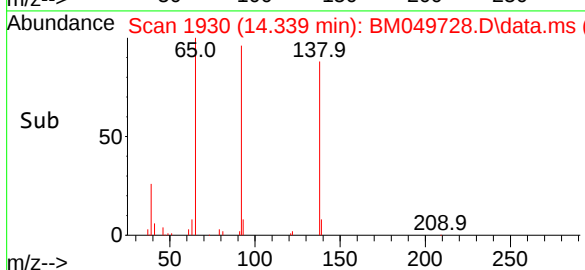
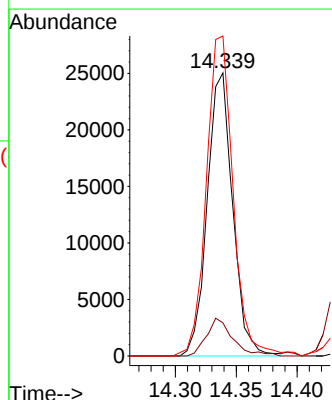
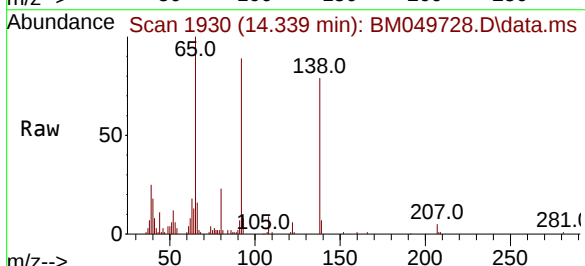
Tgt Ion:138 Resp: 36461

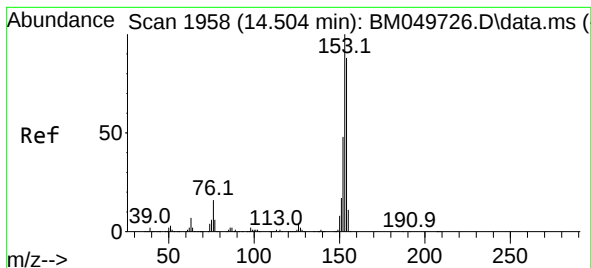
Ion Ratio Lower Upper

138 100

108 11.7 8.1 12.1

92 113.1 89.3 133.9





#52

Acenaphthene

Concen: 4.415 ng/ul

RT: 14.504 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

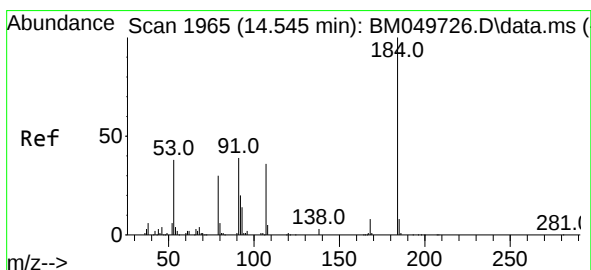
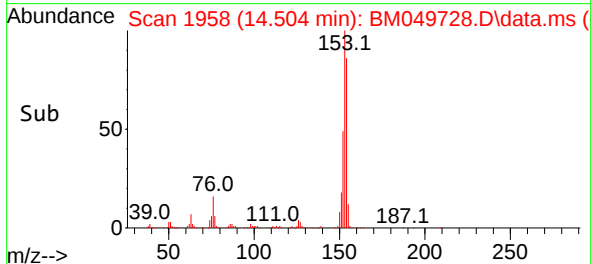
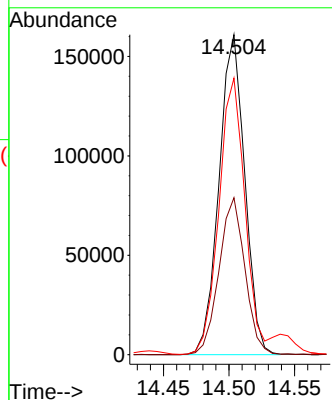
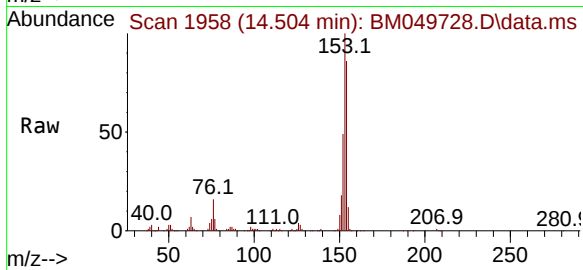
Tgt Ion:153 Resp: 220143

Ion Ratio Lower Upper

153 100

152 49.0 38.2 57.2

154 86.4 70.7 106.1



#53

2,4-Dinitrophenol

Concen: 3.752 ng/ul

RT: 14.545 min Scan# 1965

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

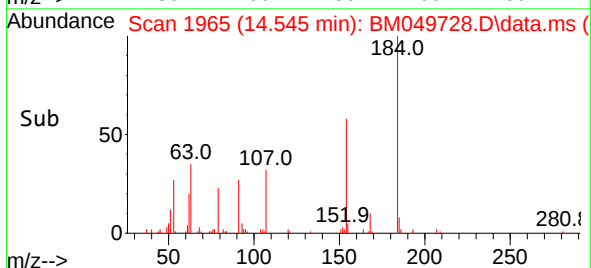
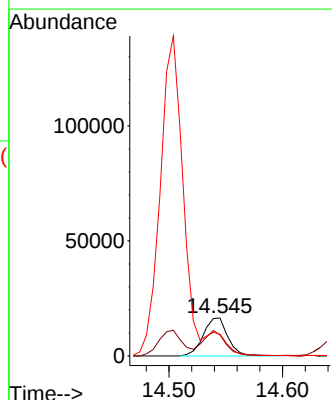
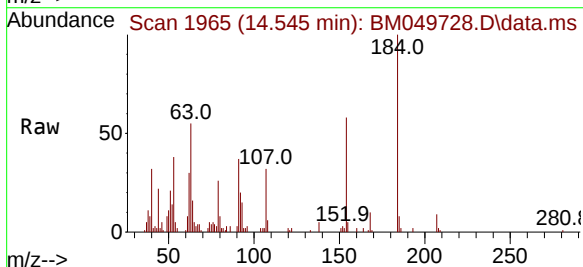
Tgt Ion:184 Resp: 24864

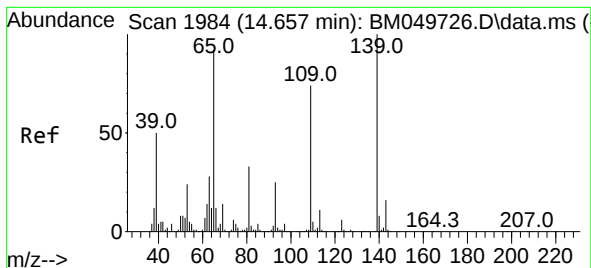
Ion Ratio Lower Upper

184 100

63 55.4 44.2 66.4

154 57.5 48.1 72.1

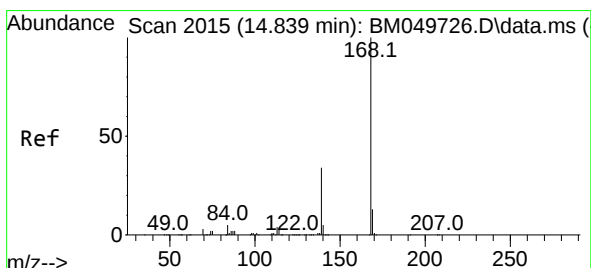
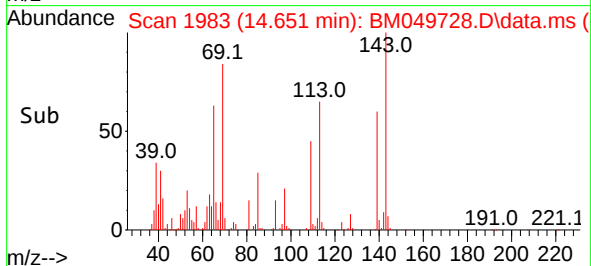
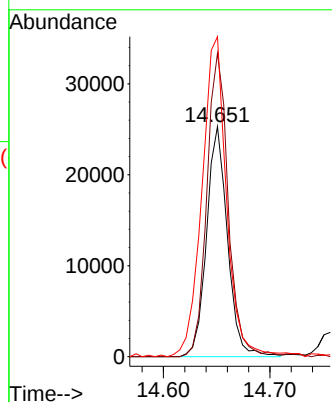
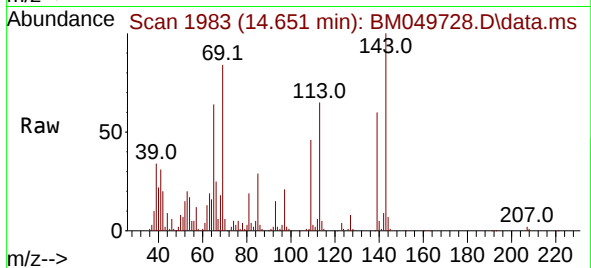




#55
4-Nitrophenol
Concen: 4.564 ng/ul
RT: 14.651 min Scan# 1984
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

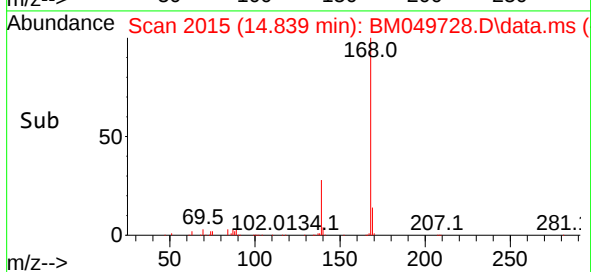
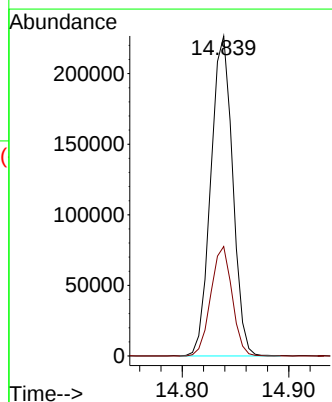
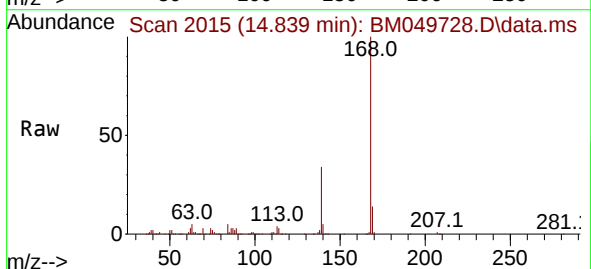
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

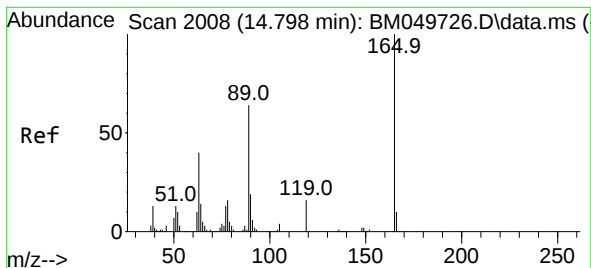
Tgt Ion:109 Resp: 34612
Ion Ratio Lower Upper
109 100
139 131.8 109.8 164.6
65 139.0 102.4 153.6



#56
Dibenzofuran
Concen: 4.589 ng/ul
RT: 14.839 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:168 Resp: 322385
Ion Ratio Lower Upper
168 100
139 34.2 27.5 41.3

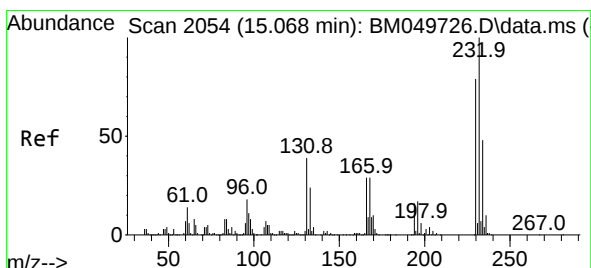
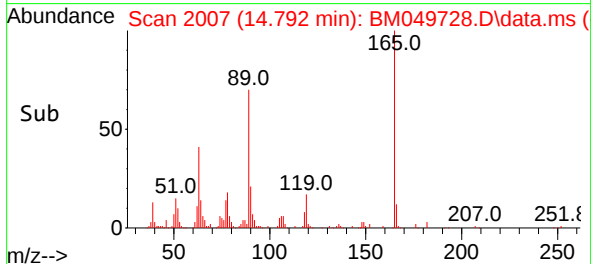
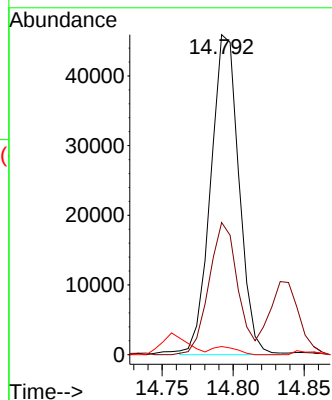
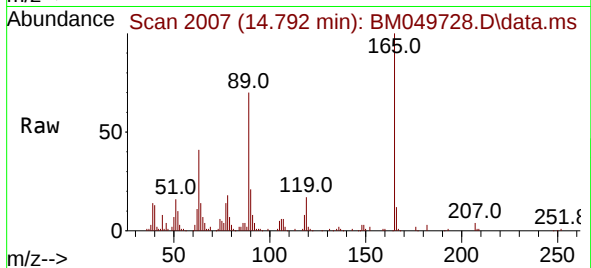




#57
2,4-Dinitrotoluene
Concen: 4.057 ng/ul
RT: 14.792 min Scan# 2008
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

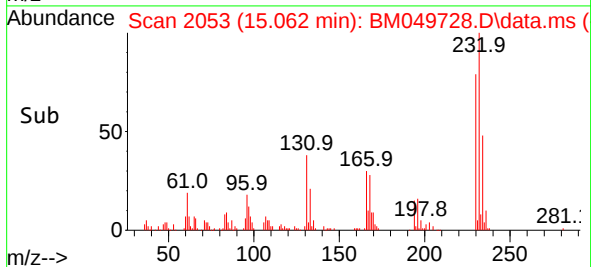
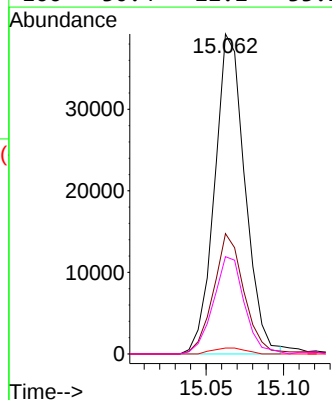
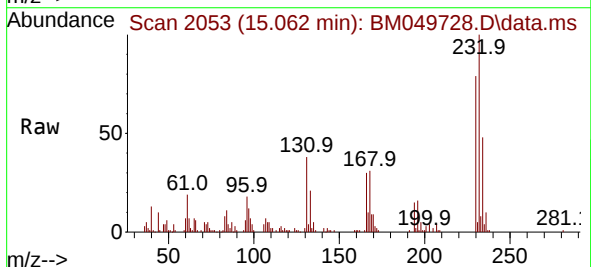
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

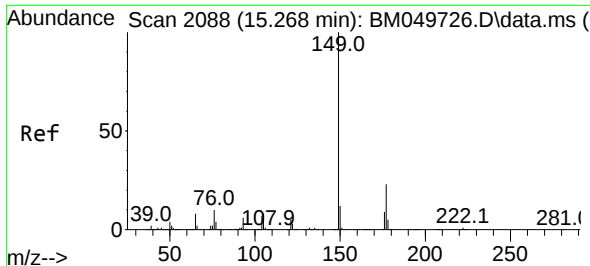
Tgt Ion:	165	Resp:	63529
Ion Ratio	Lower	Upper	
165	100		
63	41.3	31.3	46.9
182	2.5	1.9	2.9



#58
2,3,4,6-Tetrachlorophenol
Concen: 3.617 ng/ul
RT: 15.062 min Scan# 2053
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:	232	Resp:	53454
Ion Ratio	Lower	Upper	
232	100		
131	37.6	27.6	41.4
130	1.9	1.4	2.2
166	30.4	22.2	33.2

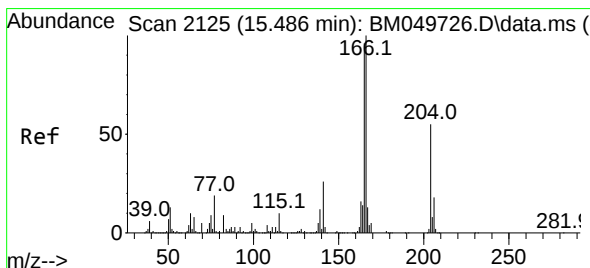
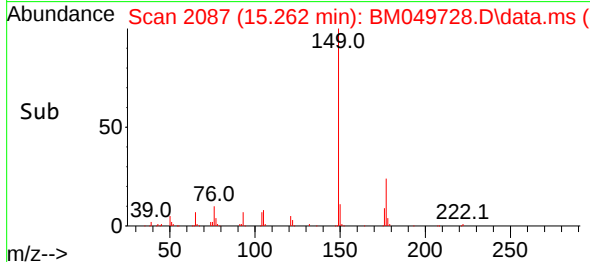
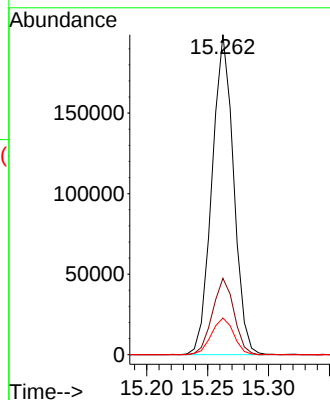
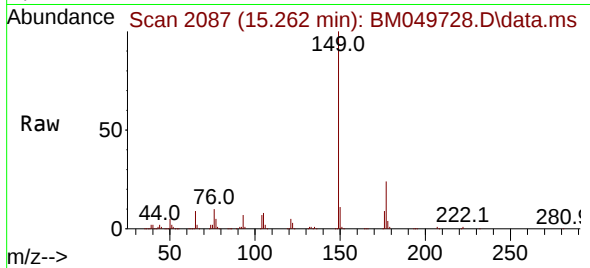




#59
Diethylphthalate
Concen: 4.423 ng/ul
RT: 15.262 min Scan# 2087
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

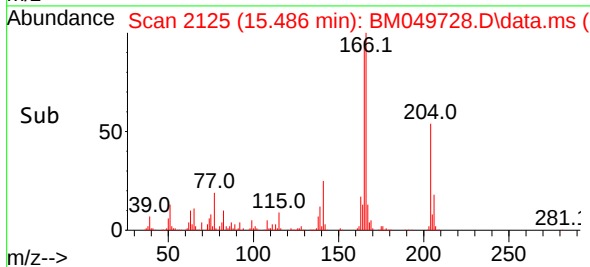
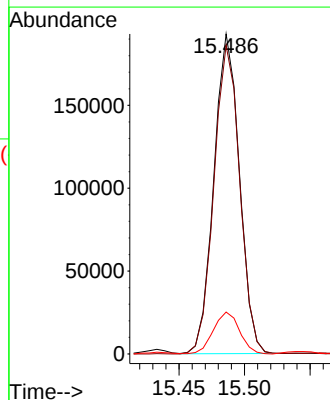
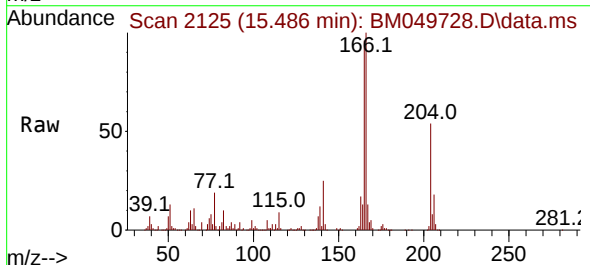
Instrument : BNA_M
ClientSampleId : MDL-SOIL-QT1-2025-01

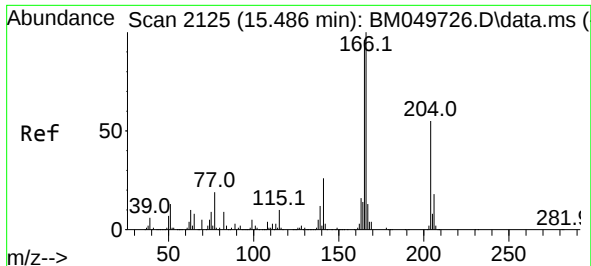
Tgt Ion:149 Resp: 244781
Ion Ratio Lower Upper
149 100
177 23.8 18.6 27.8
150 11.4 9.7 14.5



#61
Fluorene
Concen: 4.285 ng/ul
RT: 15.486 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:166 Resp: 261134
Ion Ratio Lower Upper
166 100
165 96.4 78.1 117.1
167 13.1 10.7 16.1

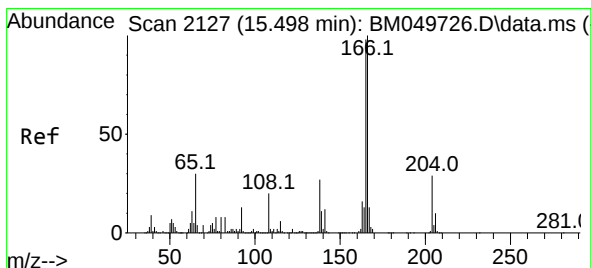
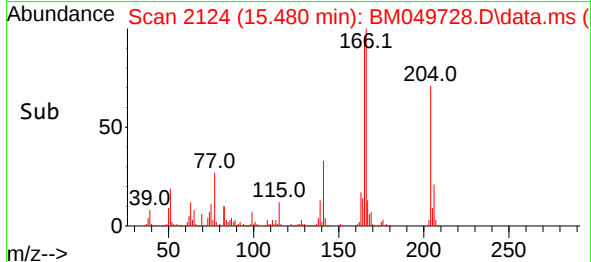
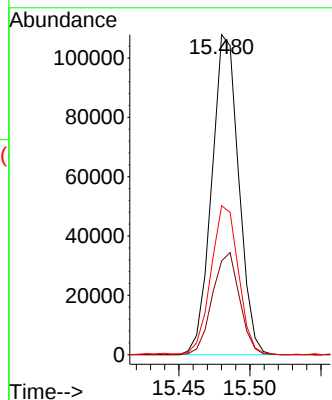
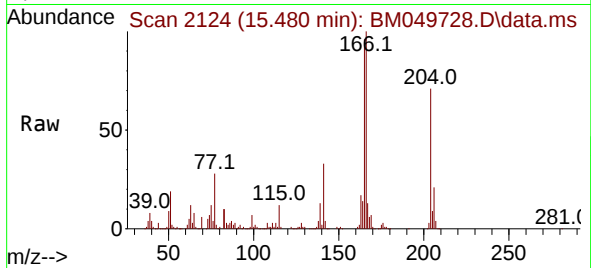




#62
4-Chlorophenyl-phenylether
Concen: 4.223 ng/ul
RT: 15.480 min Scan# 2125
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

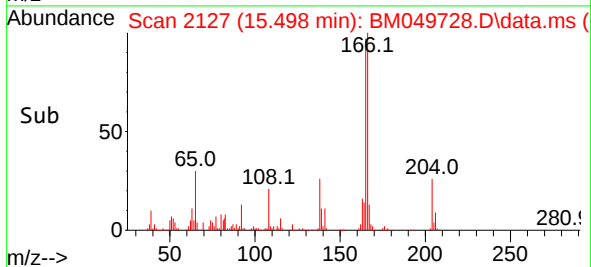
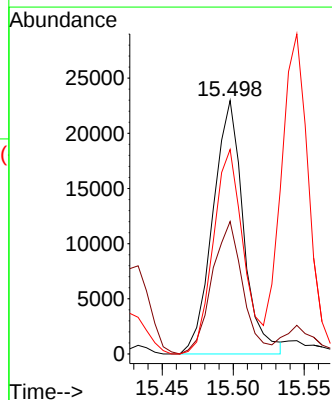
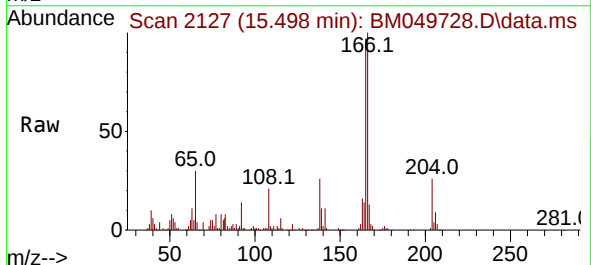
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

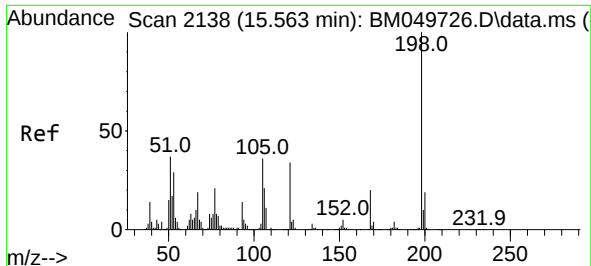
Tgt Ion:204 Resp: 142602
Ion Ratio Lower Upper
204 100
206 29.3 26.2 39.4
141 46.5 37.0 55.4



#63
4-Nitroaniline
Concen: 3.529 ng/ul
RT: 15.498 min Scan# 2127
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:138 Resp: 34393
Ion Ratio Lower Upper
138 100
92 52.3 40.2 60.2
108 80.7 63.6 95.4

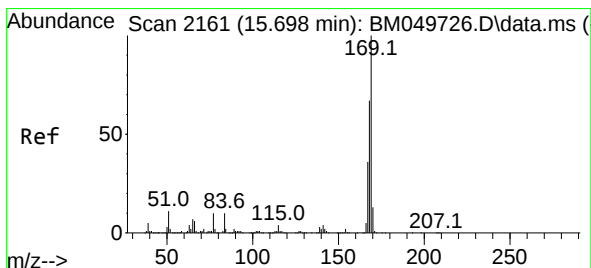
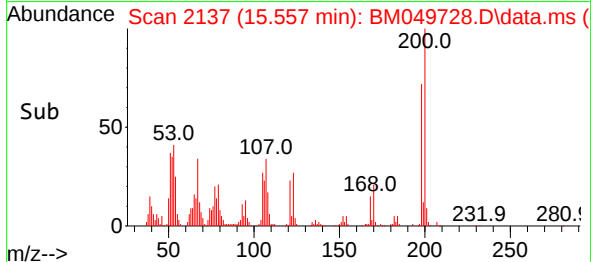
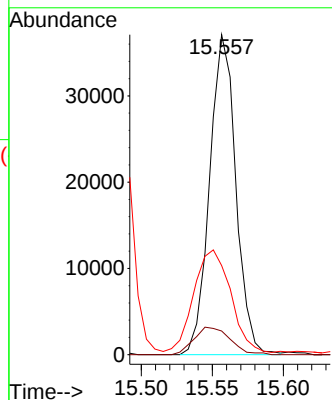
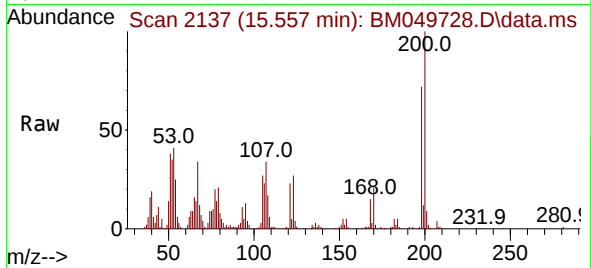




#66
 4,6-Dinitro-2-methylphenol
 Concen: 4.019 ng/ul
 RT: 15.557 min Scan# 2137
 Delta R.T. -0.006 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

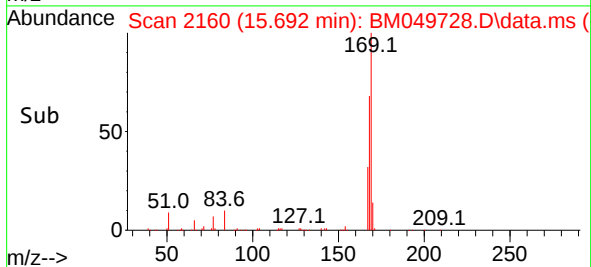
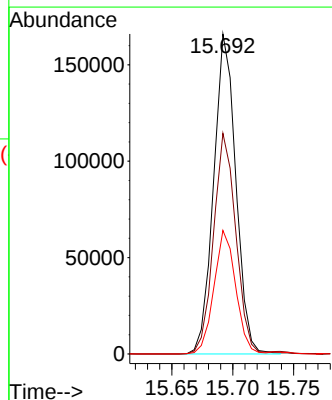
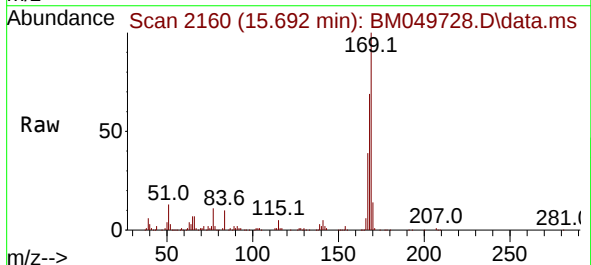
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

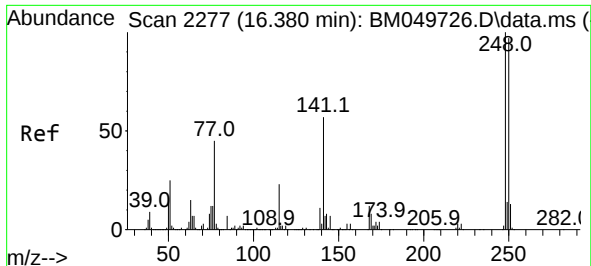
Tgt Ion:198 Resp: 47675
 Ion Ratio Lower Upper
 198 100
 182 7.4 3.4 5.0#
 77 27.8 16.2 24.4#



#67
 N-Nitrosodiphenylamine
 Concen: 4.070 ng/ul
 RT: 15.692 min Scan# 2160
 Delta R.T. -0.006 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

Tgt Ion:169 Resp: 210529
 Ion Ratio Lower Upper
 169 100
 168 69.0 53.5 80.3
 167 38.6 29.8 44.6

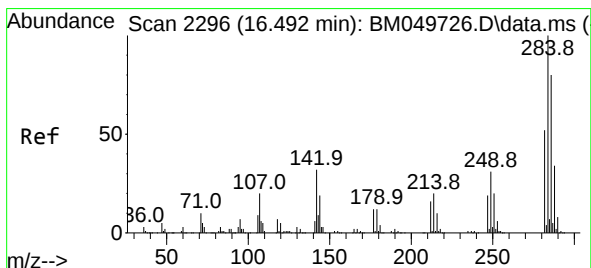
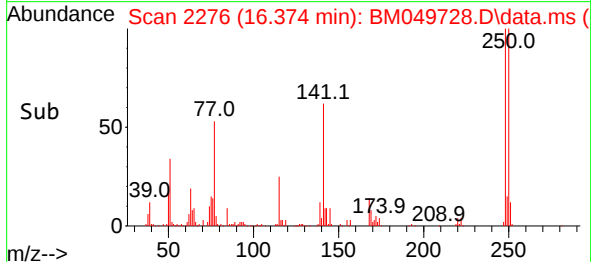
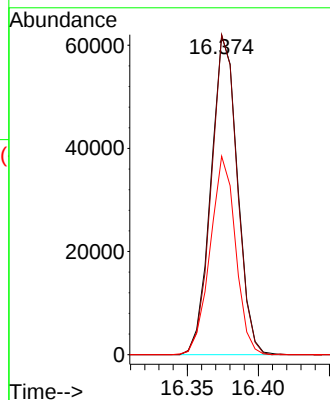
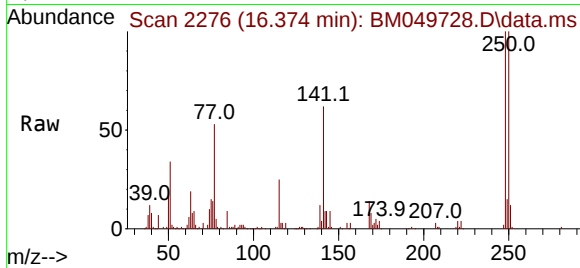




#68
4-Bromophenyl-phenylether
Concen: 3.930 ng/ul
RT: 16.374 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

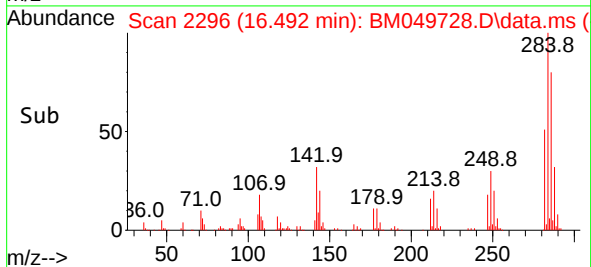
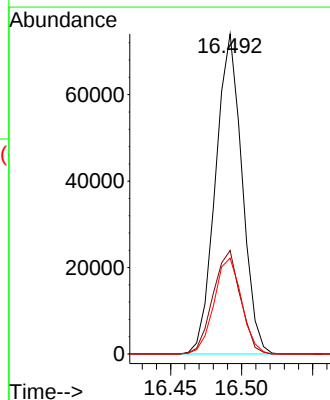
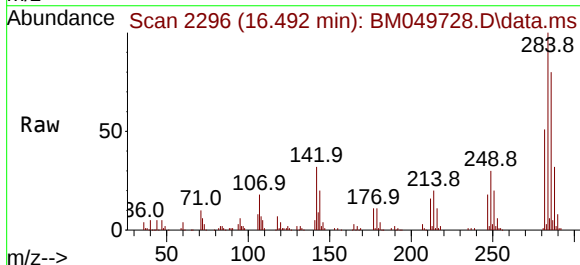
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

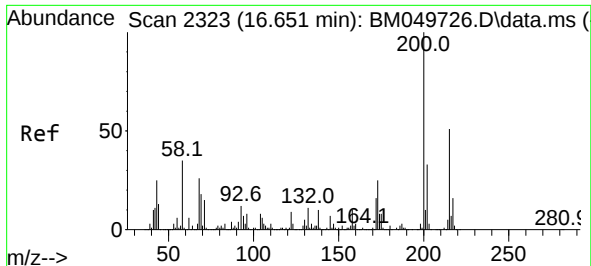
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.2	75.9	113.9
141	62.2	49.0	73.6



#69
Hexachlorobenzene
Concen: 4.175 ng/ul
RT: 16.492 min Scan# 2296
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion	Ratio	Lower	Upper
284	100		
142	32.4	25.8	38.8
249	29.9	24.4	36.6

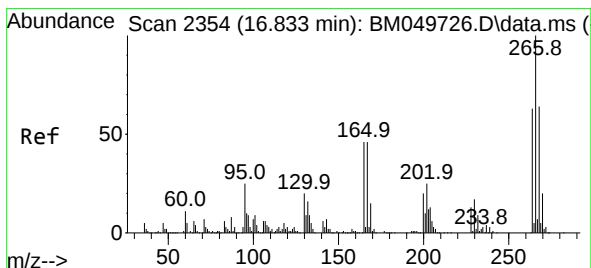
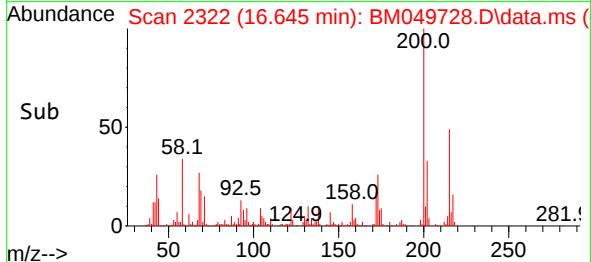
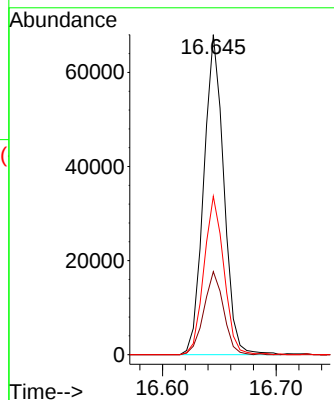
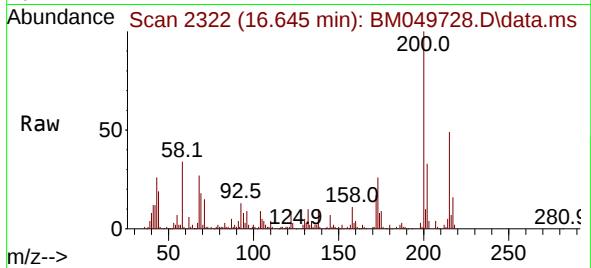




#70
 Atrazine
 Concen: 4.185 ng/ul
 RT: 16.645 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

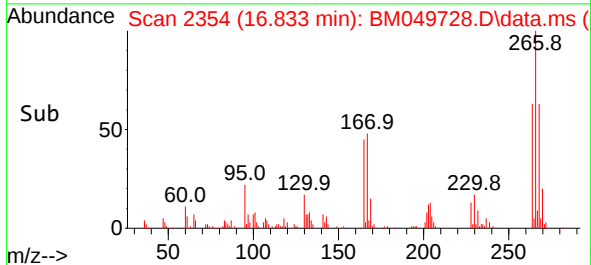
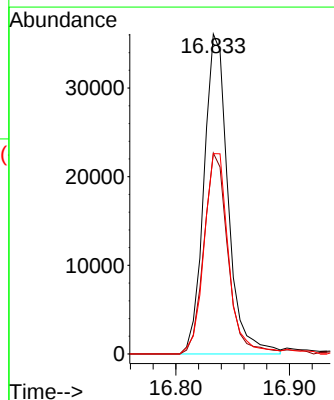
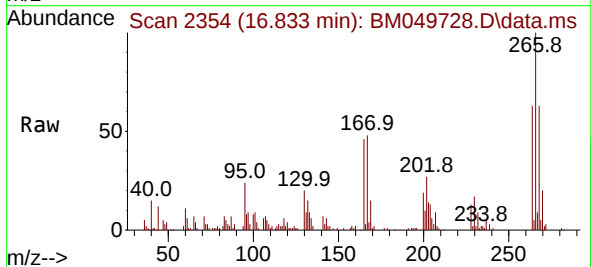
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

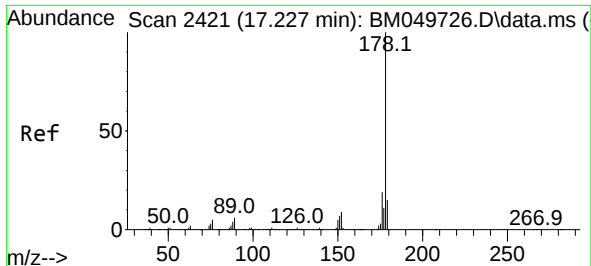
Tgt Ion:	200	Resp:	83334
Ion Ratio	Lower	Upper	
200	100		
173	25.9	19.6	29.4
215	49.5	40.2	60.2



#71
 Pentachlorophenol
 Concen: 3.584 ng/ul
 RT: 16.833 min Scan# 2354
 Delta R.T. -0.000 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

Tgt Ion:	266	Resp:	53193
Ion Ratio	Lower	Upper	
266	100		
264	62.8	48.5	72.7
268	62.6	50.2	75.2

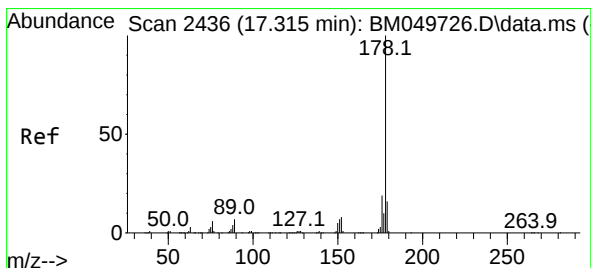
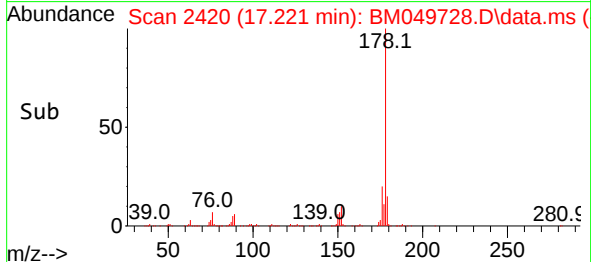
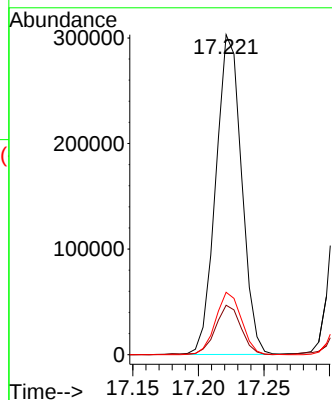
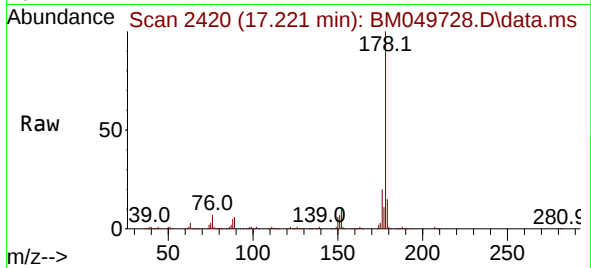




#72
Phenanthrene
Concen: 4.287 ng/ul
RT: 17.221 min Scan# 2421
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

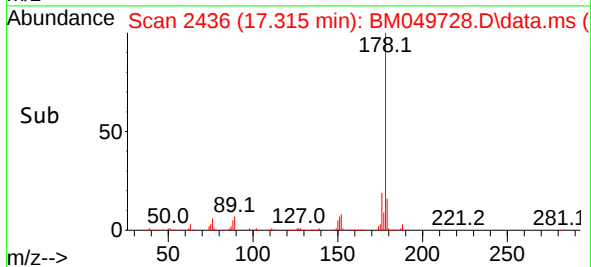
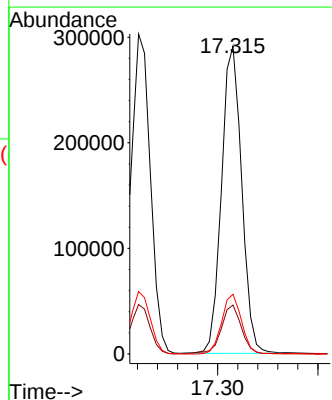
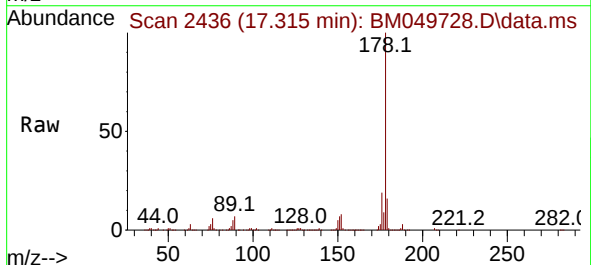
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

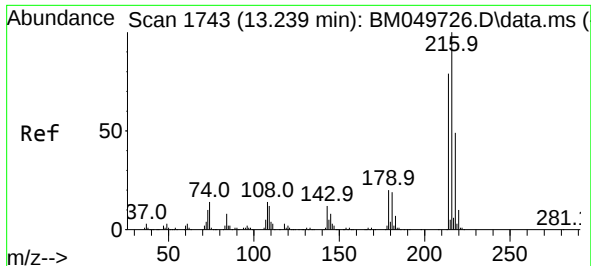
Tgt Ion:178 Resp: 413547
Ion Ratio Lower Upper
178 100
179 15.5 12.0 18.0
176 19.5 15.7 23.5



#74
Anthracene
Concen: 4.211 ng/ul
RT: 17.315 min Scan# 2436
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:178 Resp: 406166
Ion Ratio Lower Upper
178 100
179 15.9 12.3 18.5
176 19.4 14.9 22.3

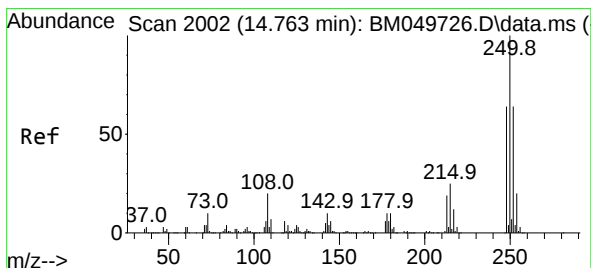
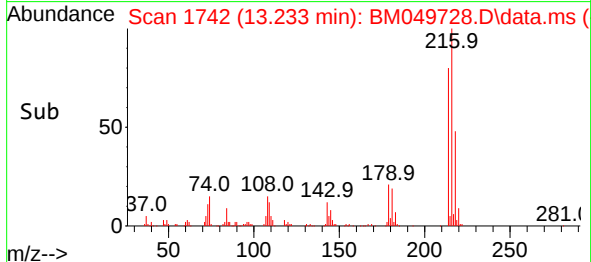
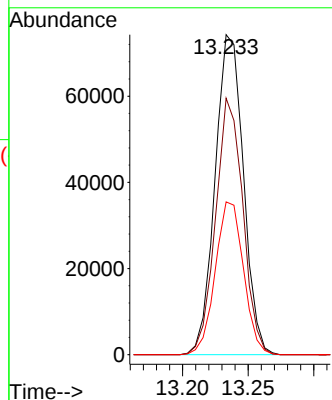
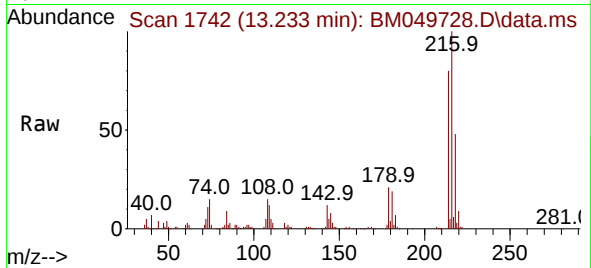




#75
1,2,3,4-Tetrachlorobenzene
Concen: 3.827 ng/uL
RT: 13.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

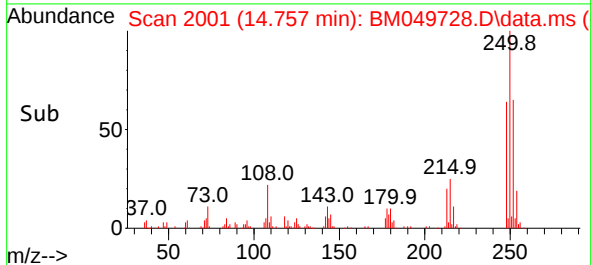
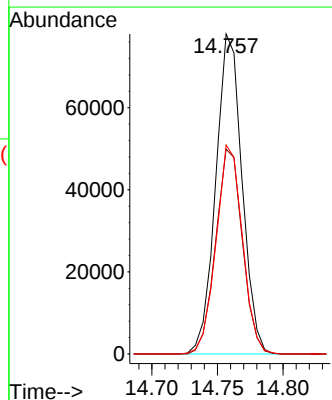
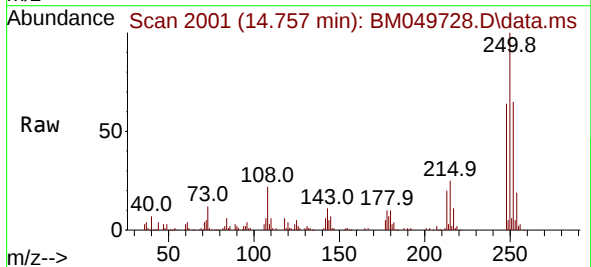
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

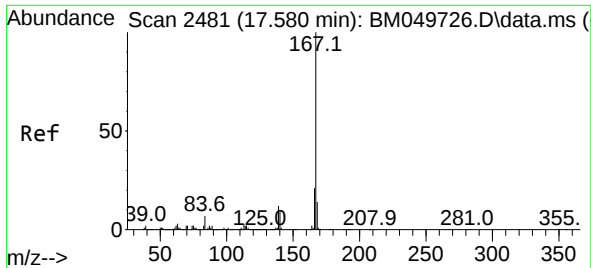
Tgt Ion:216 Resp: 111649
Ion Ratio Lower Upper
216 100
214 80.2 62.4 93.6
218 47.7 38.6 57.8



#76
Pentachlorobenzene
Concen: 3.707 ng/uL
RT: 14.757 min Scan# 2001
Delta R.T. -0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:250 Resp: 108540
Ion Ratio Lower Upper
250 100
248 64.0 50.6 75.8
252 65.3 51.1 76.7

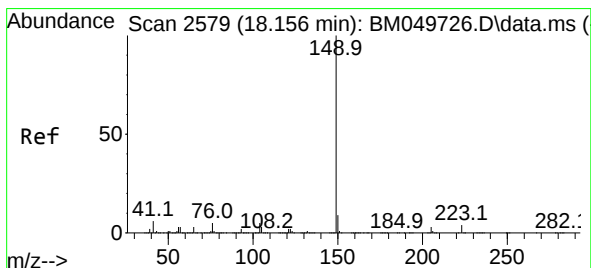
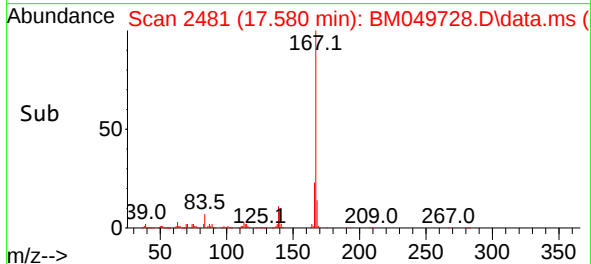
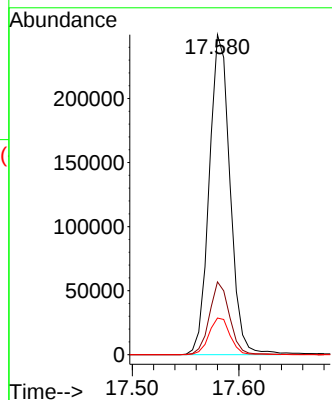
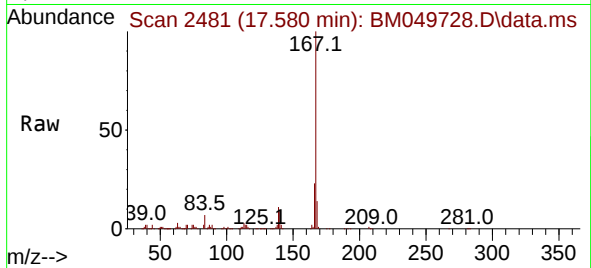




#77
 Carbazole
 Concen: 4.089 ng/ul
 RT: 17.580 min Scan# 2481
 Delta R.T. -0.000 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

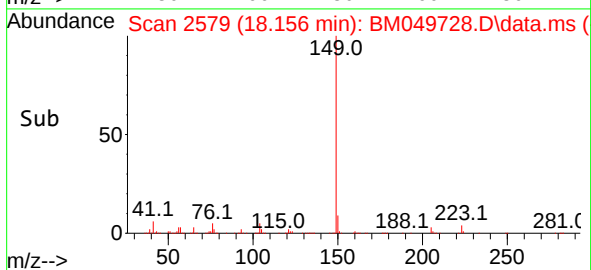
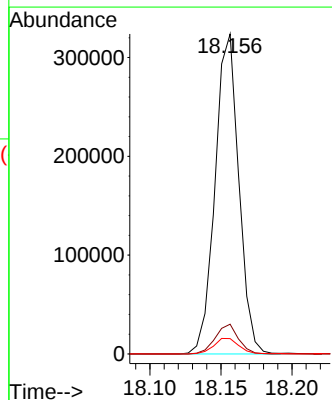
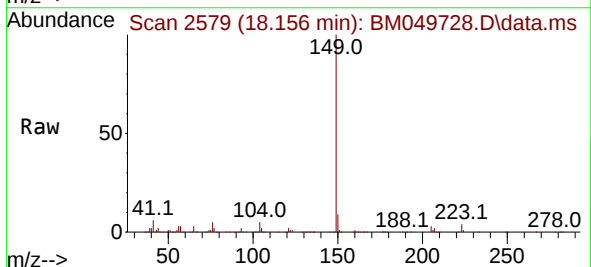
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

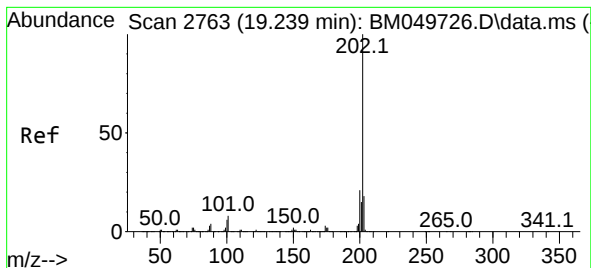
Tgt Ion:167 Resp: 338380
 Ion Ratio Lower Upper
 167 100
 166 22.8 16.9 25.3
 139 11.4 9.6 14.4



#78
 Di-n-butylphthalate
 Concen: 3.925 ng/ul
 RT: 18.156 min Scan# 2579
 Delta R.T. -0.000 min
 Lab File: BM049728.D
 Acq: 20 Mar 2025 10:27

Tgt Ion:149 Resp: 376096
 Ion Ratio Lower Upper
 149 100
 150 9.3 7.4 11.0
 104 4.8 3.9 5.9





#80

Fluoranthene

Concen: 4.107 ng/ul

RT: 19.239 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

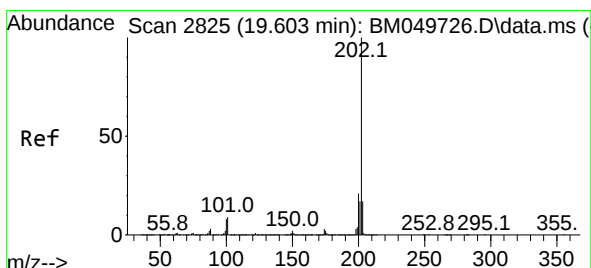
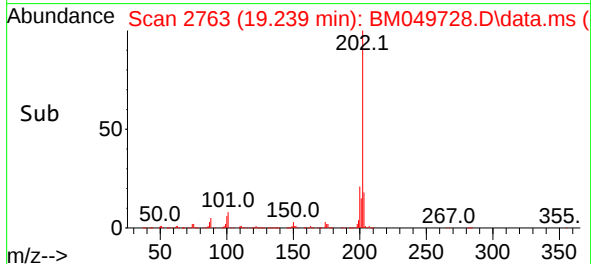
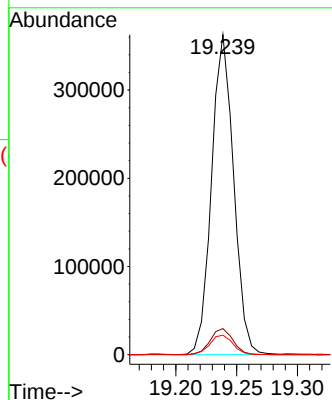
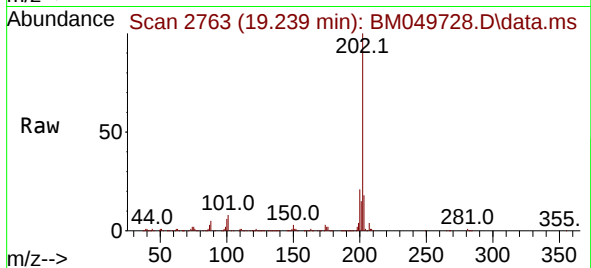
Tgt Ion:202 Resp: 457245

Ion Ratio Lower Upper

202 100

101 8.2 6.6 10.0

100 6.1 5.0 7.6



#82

Pyrene

Concen: 4.336 ng/ul

RT: 19.603 min Scan# 2825

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

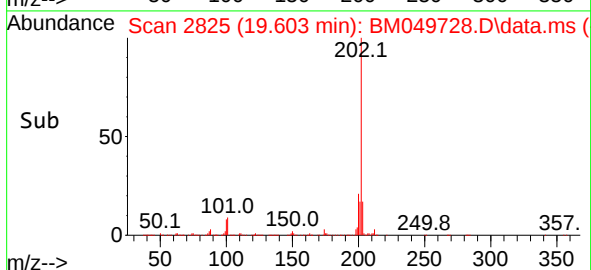
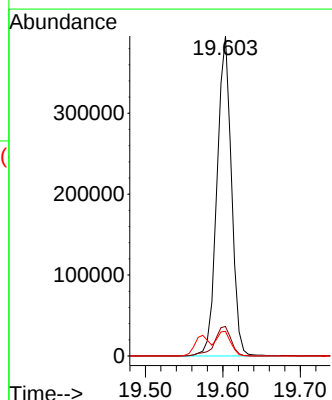
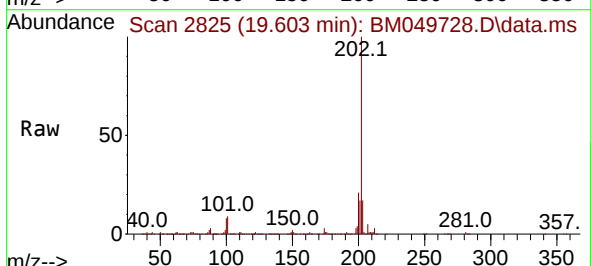
Tgt Ion:202 Resp: 512104

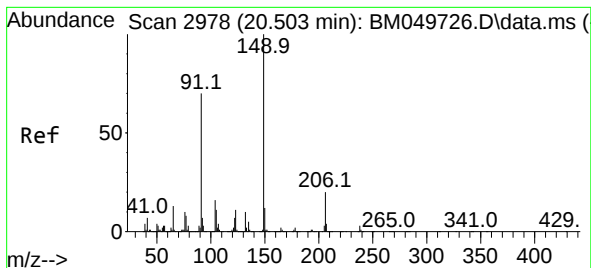
Ion Ratio Lower Upper

202 100

101 9.2 7.4 11.2

100 7.7 6.1 9.1





#83

Butylbenzylphthalate

Concen: 3.552 ng/ul

RT: 20.503 min Scan# 2978

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

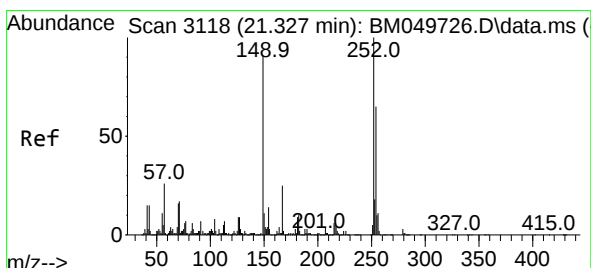
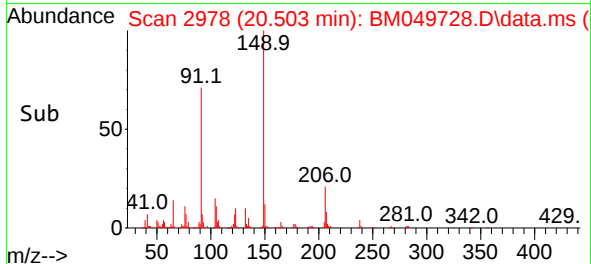
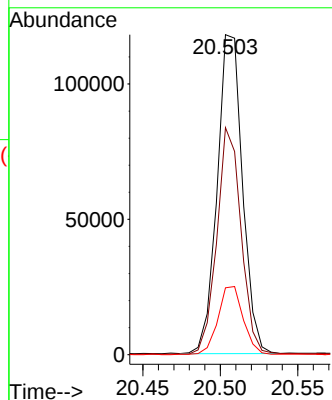
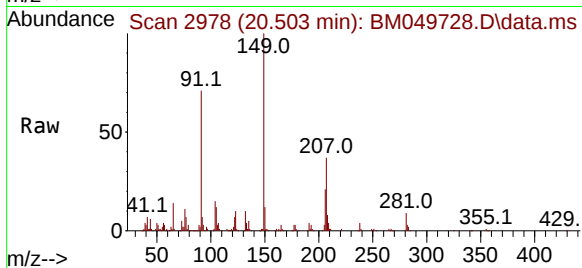
Tgt Ion:149 Resp: 134140

Ion Ratio Lower Upper

149 100

91 70.9 53.4 80.2

206 20.9 17.0 25.6



#84

3,3'-Dichlorobenzidine

Concen: 3.393 ng/ul

RT: 21.327 min Scan# 3118

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

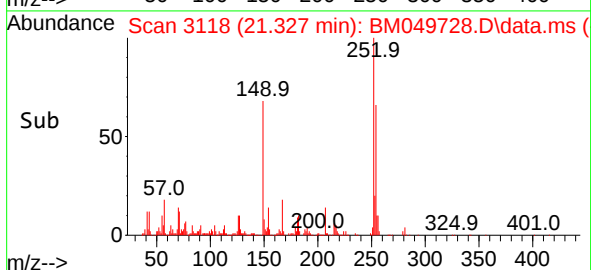
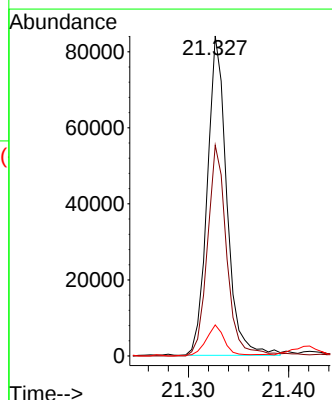
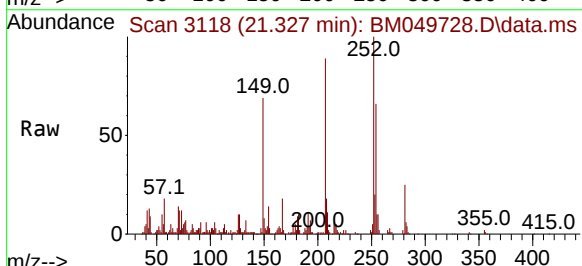
Tgt Ion:252 Resp: 113792

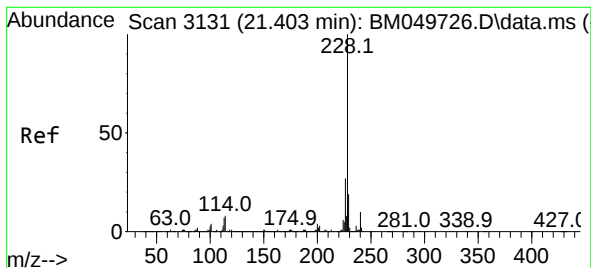
Ion Ratio Lower Upper

252 100

254 65.8 51.8 77.6

126 9.7 6.4 9.6#





#85

Benzo(a)anthracene

Concen: 4.406 ng/ul

RT: 21.403 min Scan# 3131

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

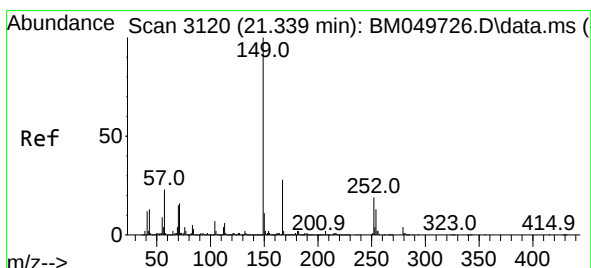
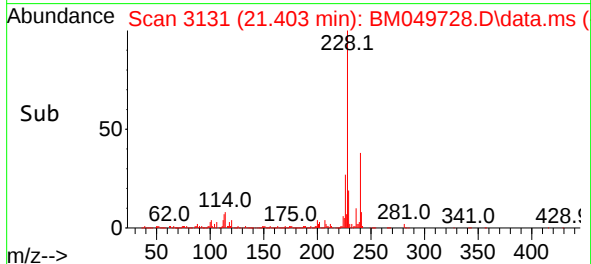
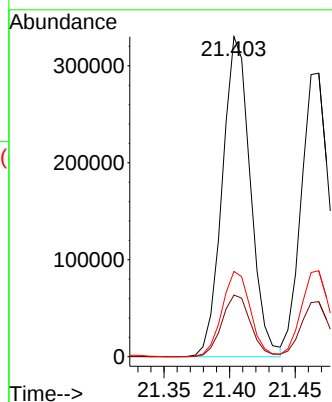
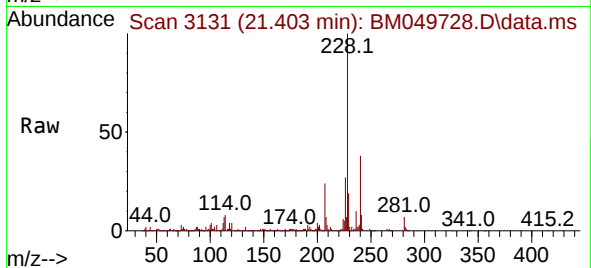
Tgt Ion:228 Resp: 491379

Ion Ratio Lower Upper

228 100

229 19.2 15.8 23.6

226 26.7 21.8 32.8



#86

Bis(2-ethylhexyl)phthalate

Concen: 3.821 ng/ul

RT: 21.339 min Scan# 3120

Delta R.T. 0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

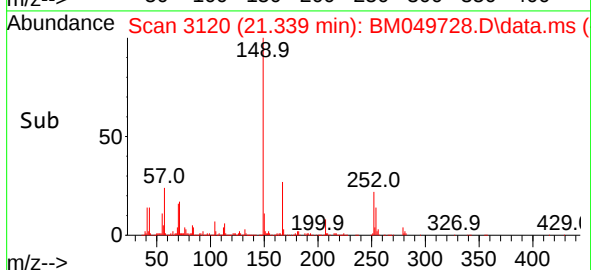
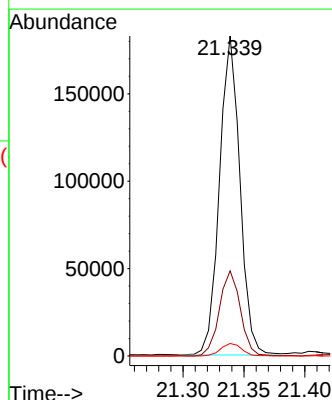
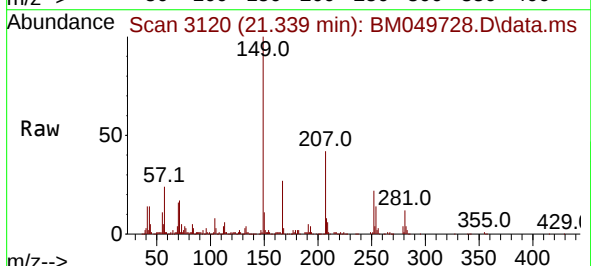
Tgt Ion:149 Resp: 213050

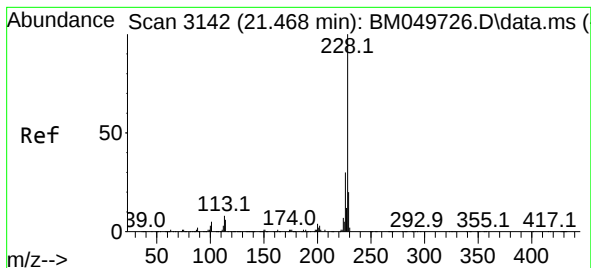
Ion Ratio Lower Upper

149 100

167 26.6 22.6 33.8

279 3.9 3.3 4.9





#87

Chrysene

Concen: 4.399 ng/ul

RT: 21.468 min Scan# 3142

Delta R.T. 0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

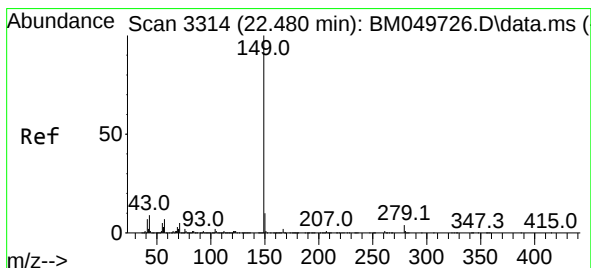
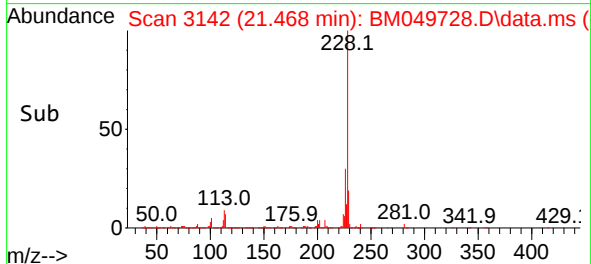
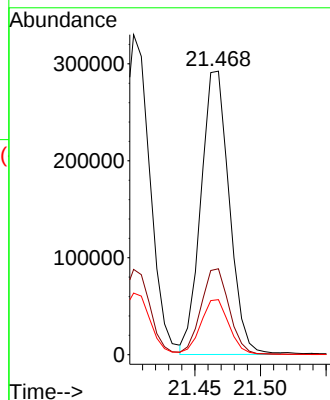
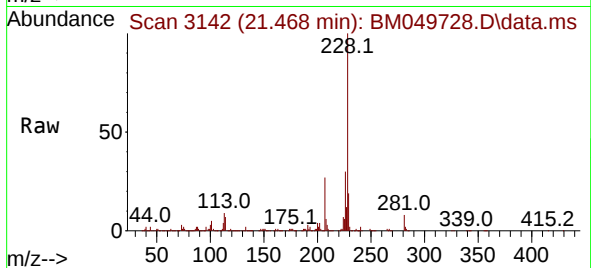
Tgt Ion:228 Resp: 441363

Ion Ratio Lower Upper

228 100

226 30.3 24.1 36.1

229 19.4 15.8 23.8



#89

Di-n-octyl phthalate

Concen: 2.852 ng/ul

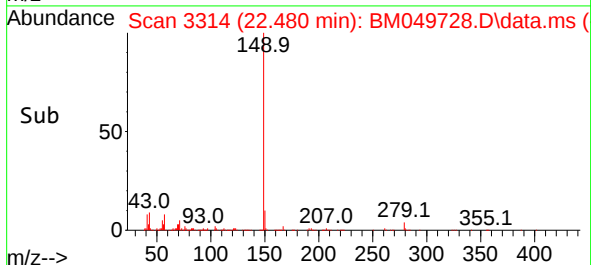
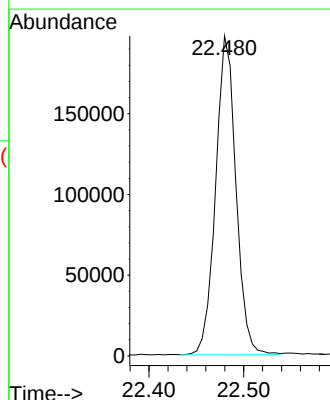
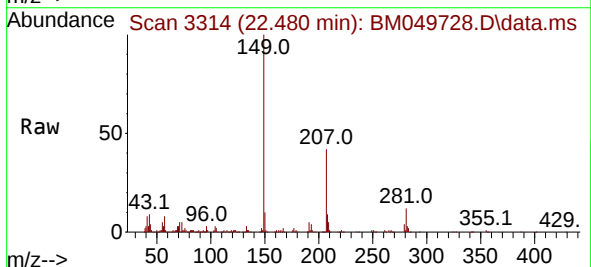
RT: 22.480 min Scan# 3314

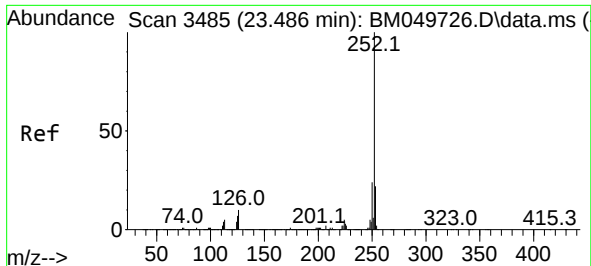
Delta R.T. 0.006 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Tgt Ion:149 Resp: 294744

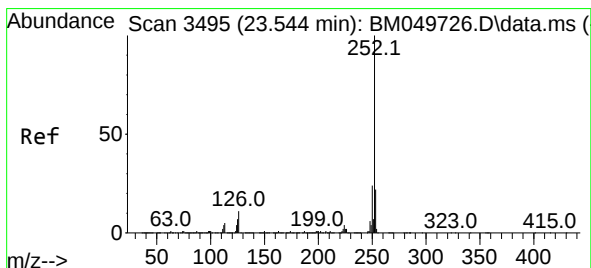
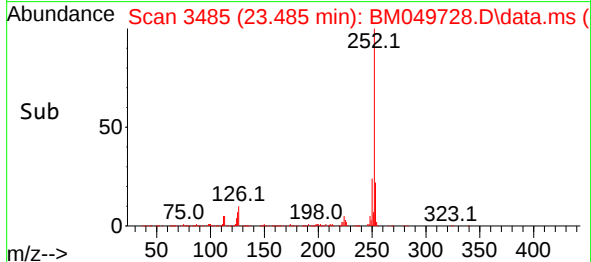
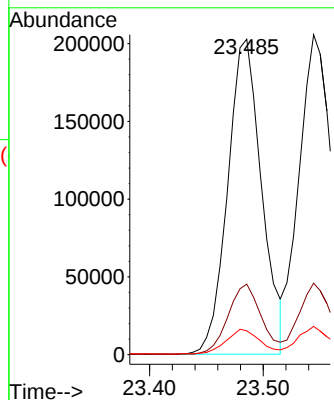
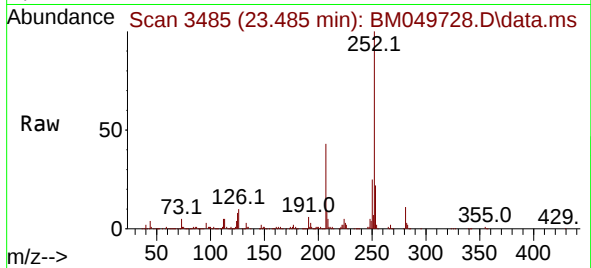




#90
Benzo(b)fluoranthene
Concen: 3.890 ng/ul
RT: 23.485 min Scan# 3485
Delta R.T. 0.006 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

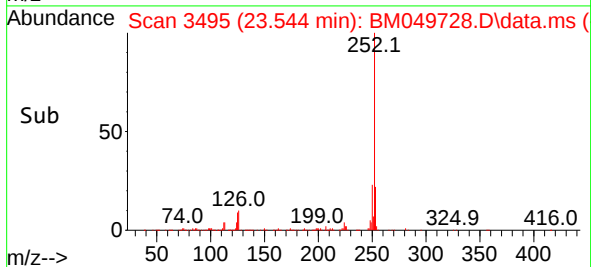
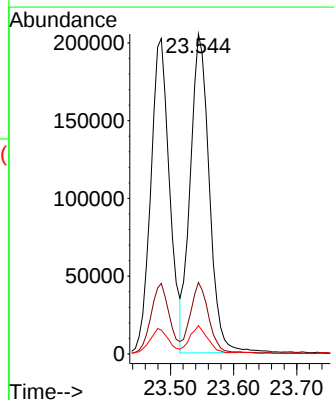
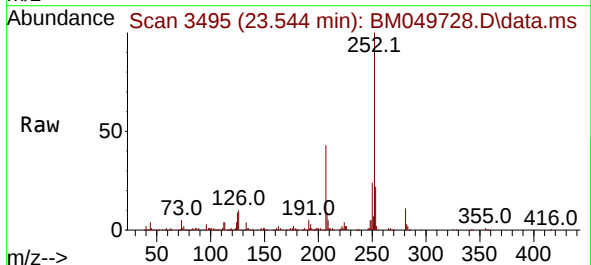
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

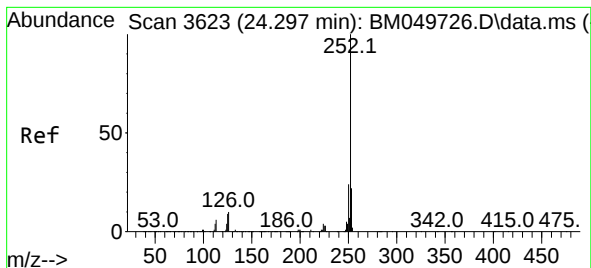
Tgt Ion:252 Resp: 419583
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 7.5 6.1 9.1



#91
Benzo(k)fluoranthene
Concen: 3.973 ng/ul
RT: 23.544 min Scan# 3495
Delta R.T. -0.000 min
Lab File: BM049728.D
Acq: 20 Mar 2025 10:27

Tgt Ion:252 Resp: 428995
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 8.8 6.1 9.1





#93

Benzo(a)pyrene

Concen: 4.151 ng/ul

RT: 24.291 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

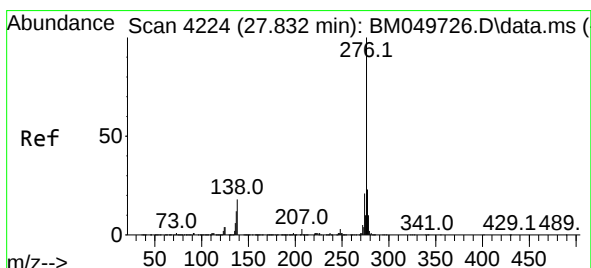
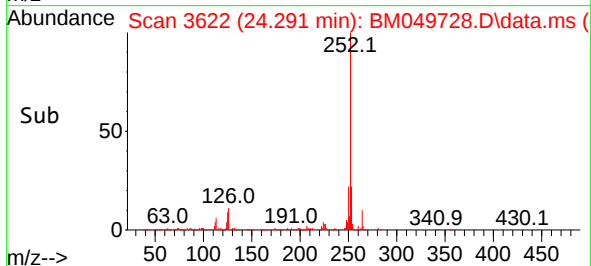
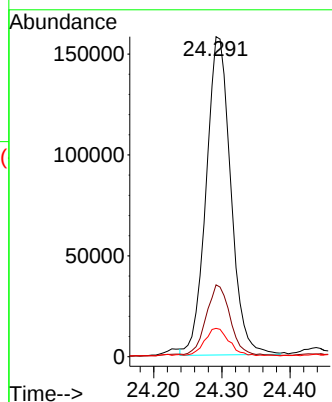
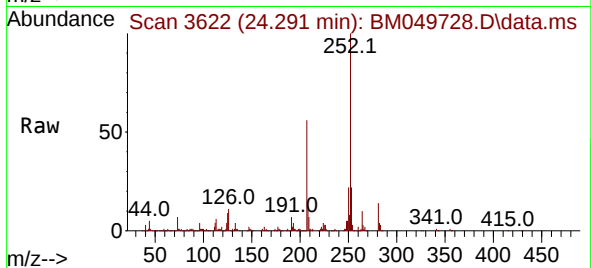
Tgt Ion:252 Resp: 396084

Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

125 8.8 6.7 10.1



#94

Indeno(1,2,3-cd)pyrene

Concen: 4.402 ng/ul

RT: 27.820 min Scan# 4222

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

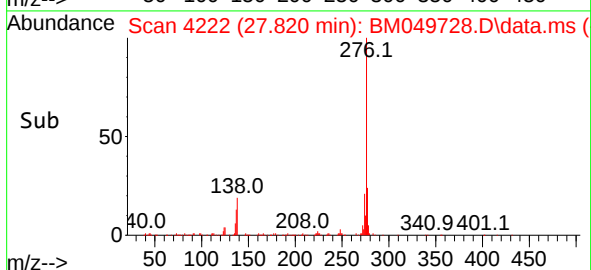
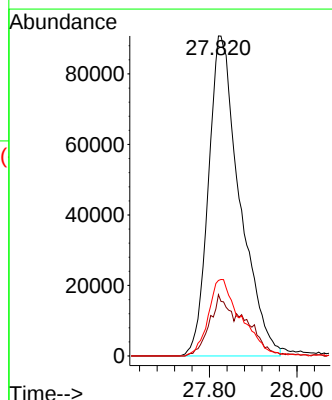
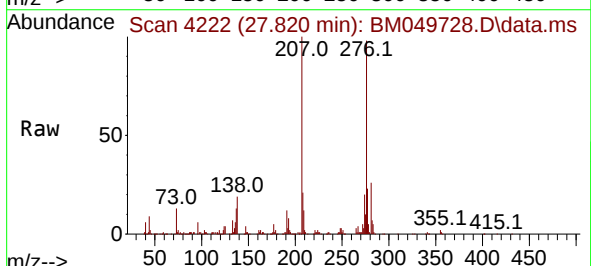
Tgt Ion:276 Resp: 451213

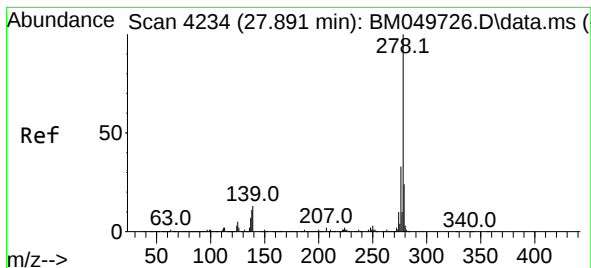
Ion Ratio Lower Upper

276 100

138 19.2 13.2 19.8

277 23.6 18.9 28.3





#95

Dibenzo(a,h)anthracene

Concen: 4.386 ng/ul

RT: 27.885 min Scan# 41

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01

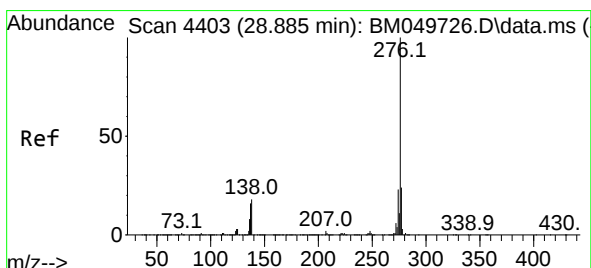
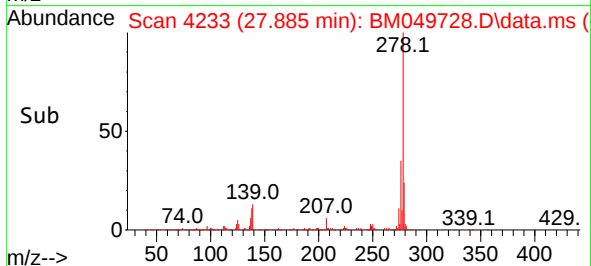
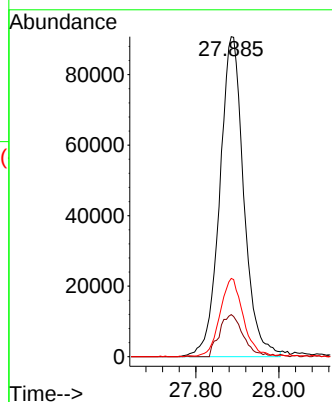
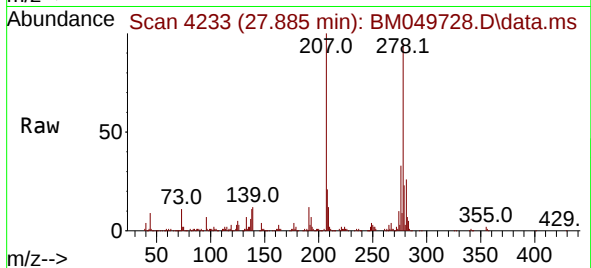
Tgt Ion:278 Resp: 364875

Ion Ratio Lower Upper

278 100

139 13.2 10.0 15.0

279 24.4 18.7 28.1



#96

Benzo(g,h,i)perylene

Concen: 4.634 ng/ul

RT: 28.879 min Scan# 4402

Delta R.T. -0.000 min

Lab File: BM049728.D

Acq: 20 Mar 2025 10:27

Tgt Ion:276 Resp: 352584

Ion Ratio Lower Upper

276 100

138 17.6 13.9 20.9

277 24.6 19.8 29.8

