

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081324\
 Data File : BM047172.D
 Acq On : 13 Aug 2024 13:04
 Operator : RC/JU
 Sample : P3390-03
 Misc : MDL-MDL-SOIL-8NG
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2024

Quant Time: Aug 13 13:47:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Aug 11 23:47:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.369	152	182830	20.000	ng	0.00
21) Naphthalene-d8	10.128	136	757219	20.000	ng	0.00
39) Acenaphthene-d10	14.027	164	502487	20.000	ng	0.00
64) Phenanthrene-d10	16.792	188	1124226	20.000	ng	0.00
76) Chrysene-d12	21.027	240	1140950	20.000	ng	0.00
86) Perylene-d12	23.721	264	1390446	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.016	112	1316253	128.641	ng	0.00
7) Phenol-d6	6.581	99	1790952	127.028	ng	0.00
23) Nitrobenzene-d5	8.516	82	1308037	86.981	ng	0.00
42) 2,4,6-Tribromophenol	15.533	330	760565	130.537	ng	0.00
45) 2-Fluorobiphenyl	12.639	172	2665506	81.825	ng	0.00
79) Terphenyl-d14	19.456	244	4387213	82.394	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.034	88	39974	9.429	ng	99
3) Pyridine	3.416	79	93272	7.503	ng	96
4) n-Nitrosodimethylamine	3.328	42	45941	8.458	ng	# 90
6) Aniline	6.722	93	132772	9.963	ng	98
8) 2-Chlorophenol	6.946	128	94406	8.459	ng	99
9) Benzaldehyde	6.534	77	93261	9.290	ng	98
10) Phenol	6.604	94	114716	8.154	ng	93
11) bis(2-Chloroethyl)ether	6.822	93	100095	8.308	ng	97
12) 1,3-Dichlorobenzene	7.257	146	106896	8.061	ng	97
13) 1,4-Dichlorobenzene	7.404	146	107745	8.025	ng	98
14) 1,2-Dichlorobenzene	7.710	146	103745	8.189	ng	97
15) Benzyl Alcohol	7.622	79	75018	7.476	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.898	45	142055	9.189	ng	99
17) 2-Methylphenol	7.828	107	73594	7.841	ng	97
18) Hexachloroethane	8.422	117	41703	8.018	ng	95
19) n-Nitroso-di-n-propyla...	8.181	70	81467	8.578	ng	97
20) 3+4-Methylphenols	8.157	107	101845	7.762	ng	97
22) Acetophenone	8.187	105	159146	8.707	ng	95
24) Nitrobenzene	8.557	77	128365	8.477	ng	97
25) Isophorone	9.081	82	213640	8.159	ng	98
26) 2-Nitrophenol	9.257	139	43823	6.535	ng	91
27) 2,4-Dimethylphenol	9.339	122	62905	8.008	ng	99
28) bis(2-Chloroethoxy)met...	9.569	93	135532	8.226	ng	99
29) 2,4-Dichlorophenol	9.792	162	83105	7.130	ng	99
30) 1,2,4-Trichlorobenzene	9.992	180	100081	7.587	ng	98
31) Naphthalene	10.175	128	304872	8.082	ng	100
32) Benzoic acid	9.434	122	40304	4.416	ng	99
33) 4-Chloroaniline	10.304	127	120851	8.331	ng	98
34) Hexachlorobutadiene	10.463	225	54739	7.090	ng	96
35) Caprolactam	11.086	113	27929	6.900	ng	92
36) 4-Chloro-3-methylphenol	11.445	107	90372	7.280	ng	98
37) 2-Methylnaphthalene	11.798	142	210899	7.852	ng	97
38) 1-Methylnaphthalene	12.028	142	200326	7.547	ng	96
40) 1,2,4,5-Tetrachloroben...	12.180	216	102230	7.459	ng	99
41) Hexachlorocyclopentadiene	12.157	237	37620	7.861	ng	96
43) 2,4,6-Trichlorophenol	12.439	196	64971	6.670	ng	98

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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Aug 11 23:47:58 2024
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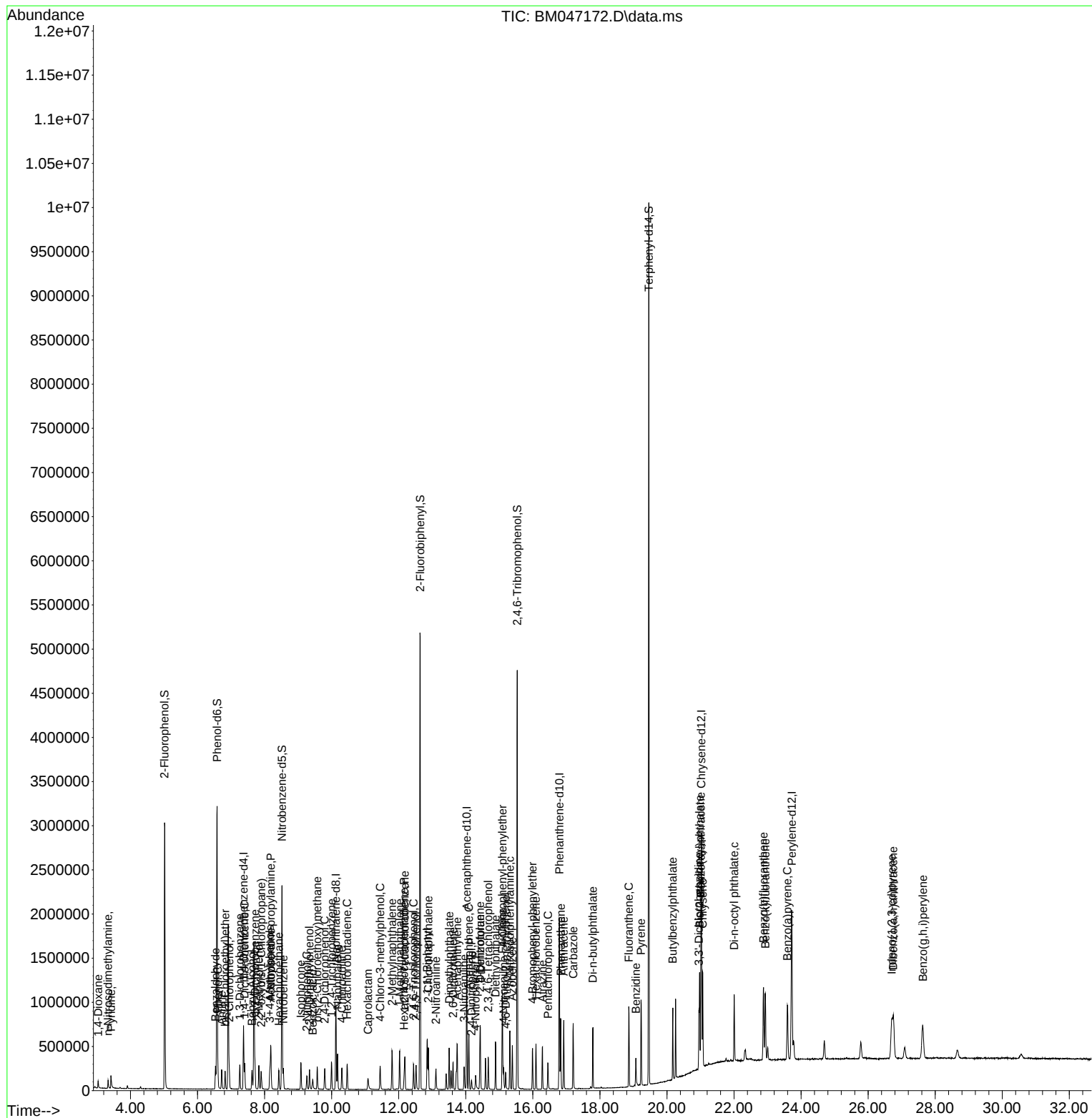
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.516	196	73052	6.754	ng	95
46) 1,1'-Biphenyl	12.851	154	293252	8.198	ng	99
47) 2-Chloronaphthalene	12.880	162	223876	8.007	ng	98
48) 2-Nitroaniline	13.110	65	66086	7.545	ng	89
49) Acenaphthylene	13.745	152	358335	8.694	ng	98
50) Dimethylphthalate	13.504	163	285513	8.136	ng	99
51) 2,6-Dinitrotoluene	13.622	165	57178	6.970	ng	91
52) Acenaphthene	14.092	154	205513	7.861	ng	98
53) 3-Nitroaniline	13.951	138	59610	7.251	ng #	91
54) 2,4-Dinitrophenol	14.169	184	22865	4.650	ng	90
55) Dibenzofuran	14.433	168	355269	8.603	ng	100
56) 4-Nitrophenol	14.292	139	47742	6.735	ng	86
57) 2,4-Dinitrotoluene	14.422	165	75637	6.908	ng #	83
58) Fluorene	15.086	166	281509	8.262	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.669	232	65036	7.316	ng	96
60) Diethylphthalate	14.886	149	280409	7.824	ng	97
61) 4-Chlorophenyl-phenyle...	15.092	204	130442	8.041	ng	99
62) 4-Nitroaniline	15.127	138	64231	7.931	ng	97
63) Azobenzene	15.386	77	289791	8.528	ng	98
65) 4,6-Dinitro-2-methylph...	15.192	198	36641	5.567	ng	94
66) n-Nitrosodiphenylamine	15.316	169	239313	7.815	ng	99
67) 4-Bromophenyl-phenylether	15.992	248	76334	7.046	ng	97
68) Hexachlorobenzene	16.092	284	94546	7.287	ng	96
69) Atrazine	16.286	200	80750	8.763	ng	97
70) Pentachlorophenol	16.451	266	52094	5.728	ng	97
71) Phenanthrene	16.833	178	467274	8.282	ng	99
72) Anthracene	16.921	178	448682	8.173	ng	99
73) Carbazole	17.204	167	446155	7.960	ng	99
74) Di-n-butylphthalate	17.792	149	476891	7.312	ng	98
75) Fluoranthene	18.862	202	522045	7.607	ng	98
77) Benzidine	19.074	184	199944	10.334	ng	99
78) Pyrene	19.227	202	555626	6.820	ng	99
80) Butylbenzylphthalate	20.174	149	214661	6.457	ng	99
81) Benzo(a)anthracene	21.009	228	588188	7.766	ng	98
82) 3,3'-Dichlorobenzidine	20.951	252	191037	8.061	ng	98
83) Chrysene	21.068	228	561681	7.816	ng	98
84) Bis(2-ethylhexyl)phtha...	20.974	149	320434	6.796	ng	99
85) Di-n-octyl phthalate	22.003	149	513750	6.411	ng #	96
87) Indeno(1,2,3-cd)pyrene	26.703	276	718746	7.997	ng	99
88) Benzo(b)fluoranthene	22.880	252	609044	7.376	ng	98
89) Benzo(k)fluoranthene	22.933	252	606790	7.780	ng	99
90) Benzo(a)pyrene	23.592	252	542427	7.583	ng	97
91) Dibenzo(a,h)anthracene	26.750	278	590647	8.121	ng	97
92) Benzo(g,h,i)perylene	27.632	276	575698	7.624	ng	97

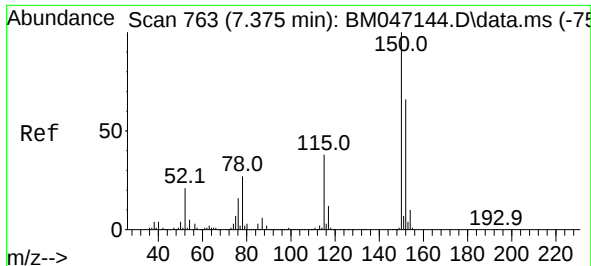
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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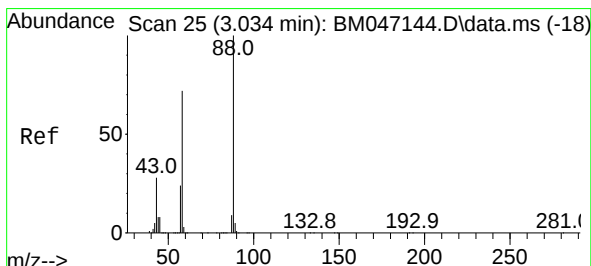
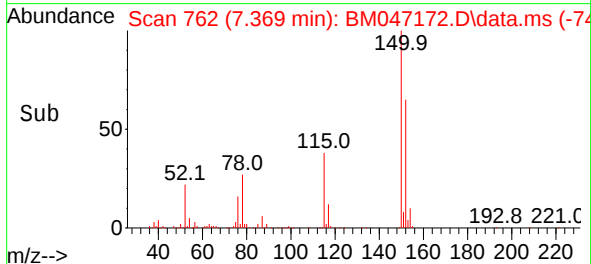
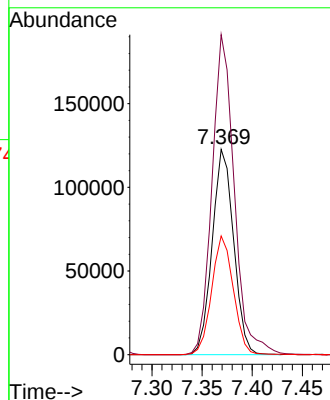
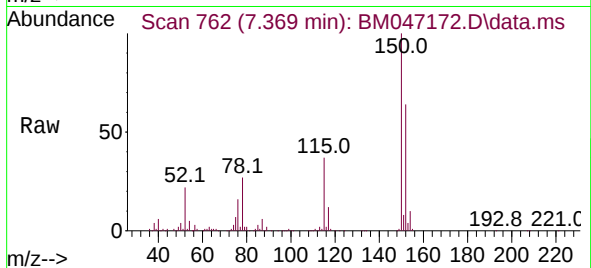




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.369 min Scan# 7
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

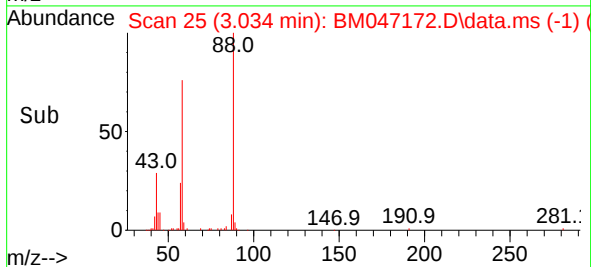
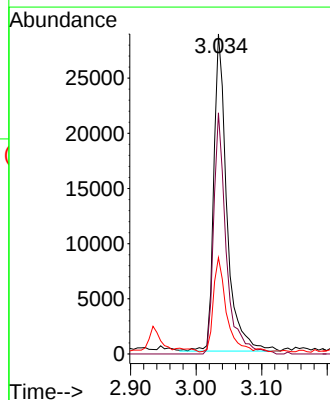
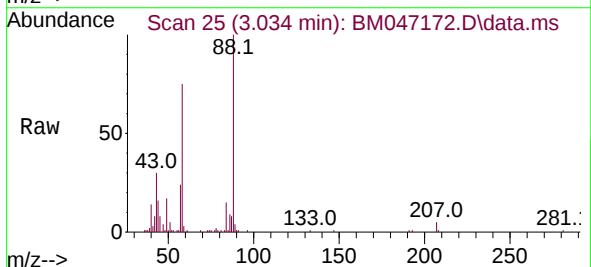
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

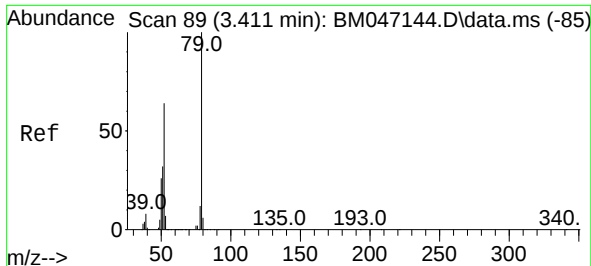
Tgt Ion:152 Resp: 182830
Ion Ratio Lower Upper
152 100
150 155.9 120.5 180.7
115 57.8 45.5 68.3



#2
1,4-Dioxane
Concen: 9.429 ng
RT: 3.034 min Scan# 25
Delta R.T. -0.000 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion: 88 Resp: 39974
Ion Ratio Lower Upper
88 100
58 72.9 58.2 87.4
43 29.1 22.5 33.7





#3

Pyridine

Concen: 7.503 ng

RT: 3.416 min Scan# 90

Delta R.T. 0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

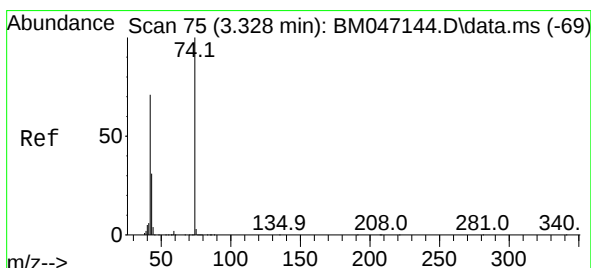
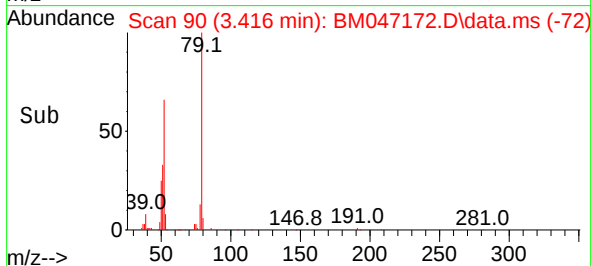
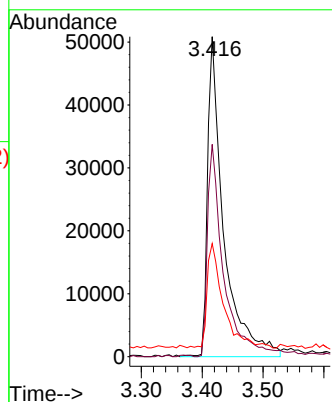
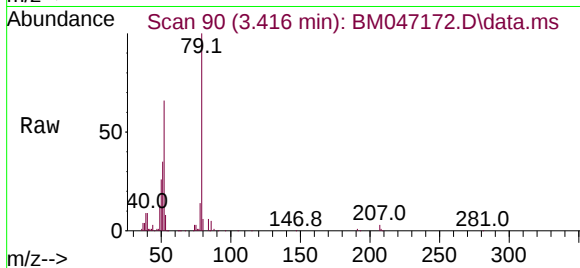
Tgt Ion: 79 Resp: 93272

Ion Ratio Lower Upper

79 100

52 66.4 51.2 76.8

51 35.3 26.1 39.1



#4

n-Nitrosodimethylamine

Concen: 8.458 ng

RT: 3.328 min Scan# 75

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

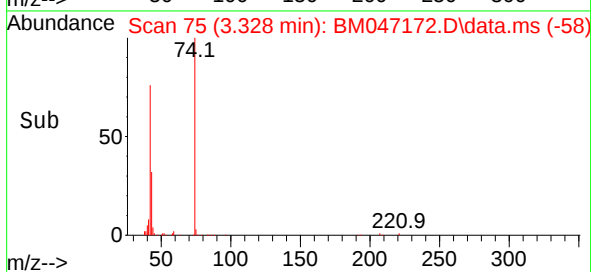
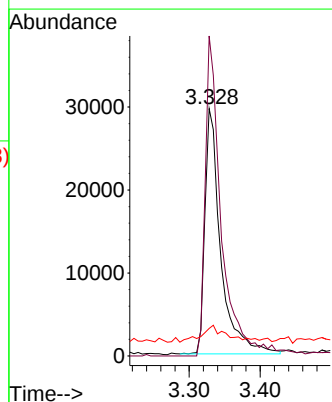
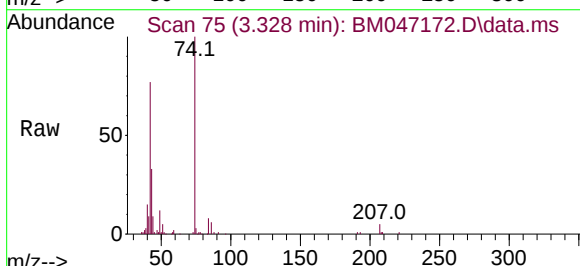
Tgt Ion: 42 Resp: 45941

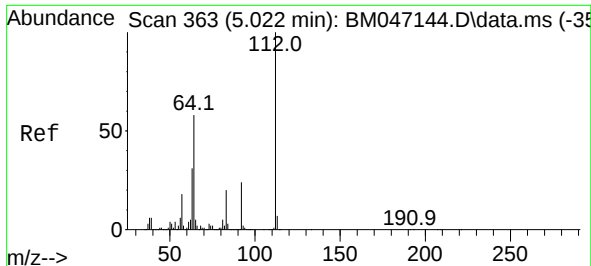
Ion Ratio Lower Upper

42 100

74 129.4 112.9 169.3

44 11.1 5.3 7.9#

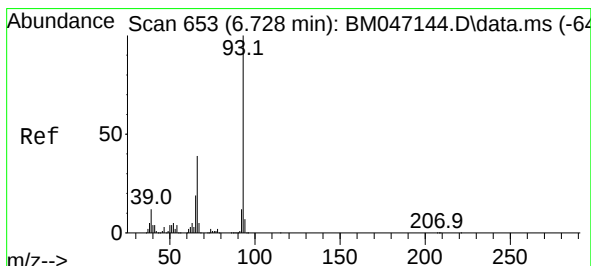
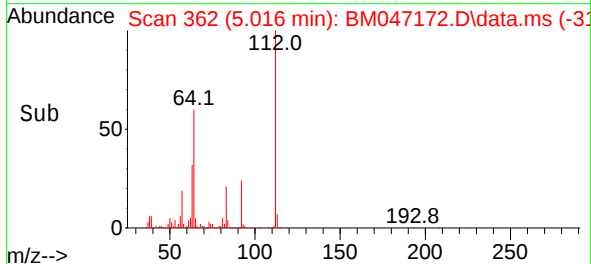
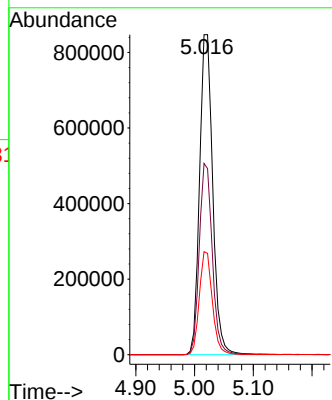
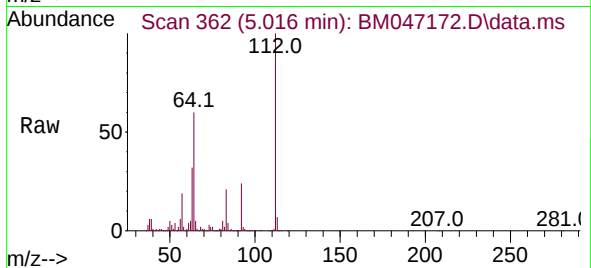




#5
2-Fluorophenol
Concen: 128.641 ng
RT: 5.016 min Scan# 363
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

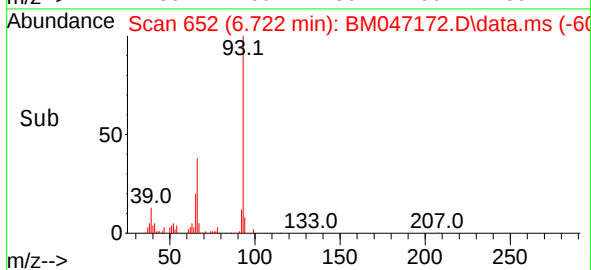
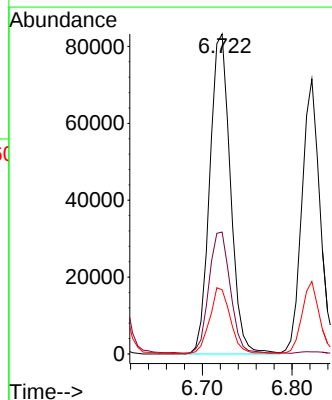
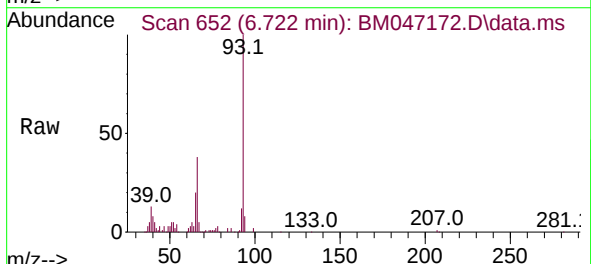
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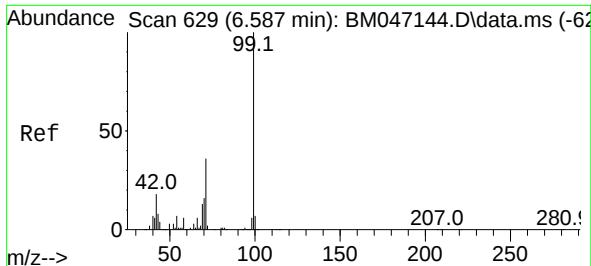
Tgt Ion:112 Resp: 1316253
Ion Ratio Lower Upper
112 100
64 59.8 46.7 70.1
63 32.2 24.8 37.2



#6
Aniline
Concen: 9.963 ng
RT: 6.722 min Scan# 652
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion: 93 Resp: 132772
Ion Ratio Lower Upper
93 100
66 38.1 31.4 47.2
65 20.1 15.6 23.4

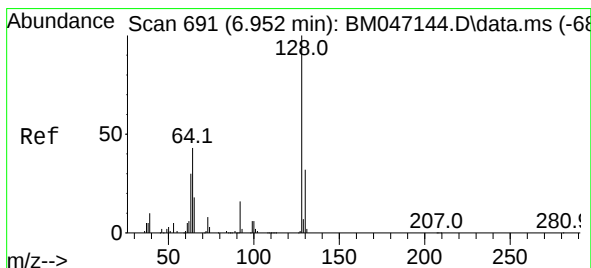
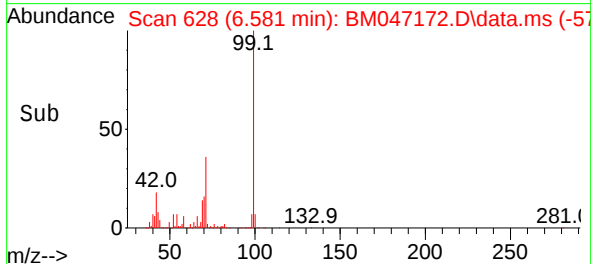
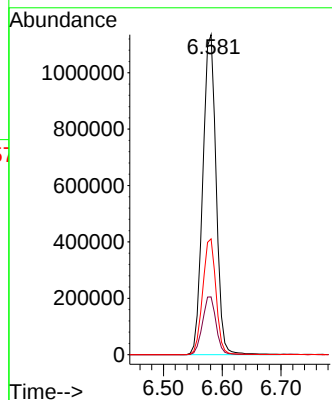
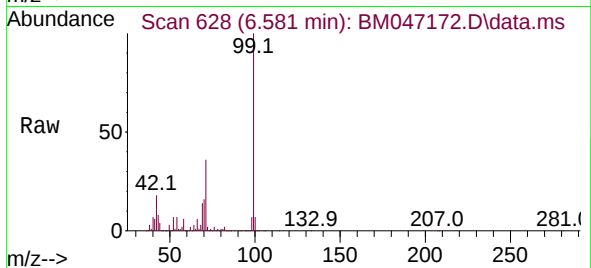




#7
Phenol-d6
Concen: 127.028 ng
RT: 6.581 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

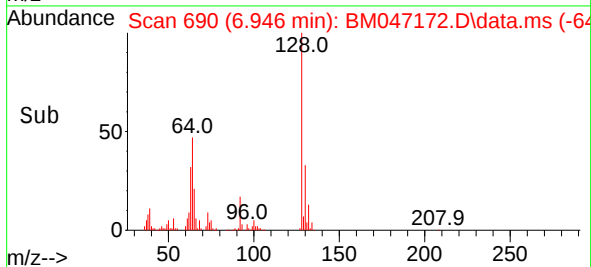
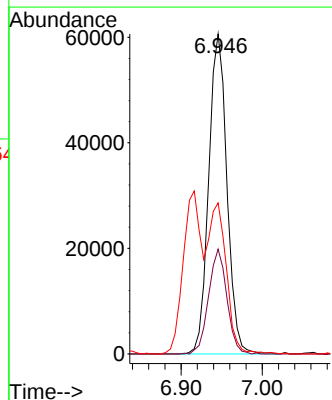
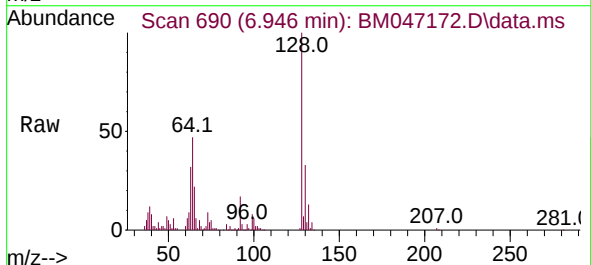
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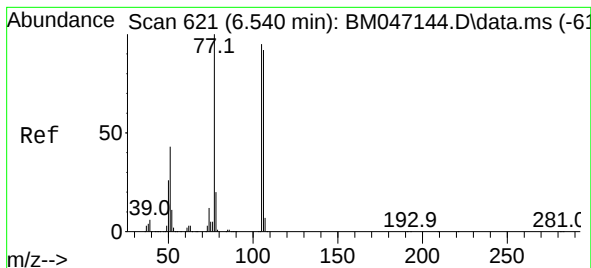
Tgt Ion: 99 Resp: 1790952
Ion Ratio Lower Upper
99 100
42 18.1 14.1 21.1
71 36.2 28.5 42.7



#8
2-Chlorophenol
Concen: 8.459 ng
RT: 6.946 min Scan# 690
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion: 128 Resp: 94406
Ion Ratio Lower Upper
128 100
130 32.7 12.1 52.1
64 47.2 26.6 66.6





#9

Benzaldehyde

Concen: 9.290 ng

RT: 6.534 min Scan# 61

Delta R.T. -0.006 min

Lab File: BM047172.D

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BNA_M

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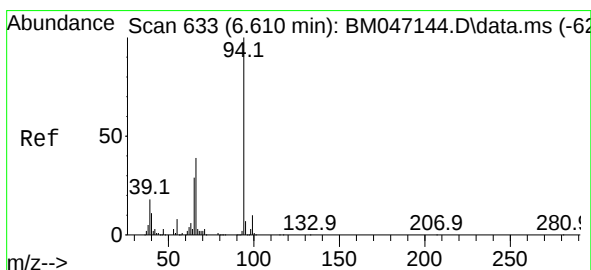
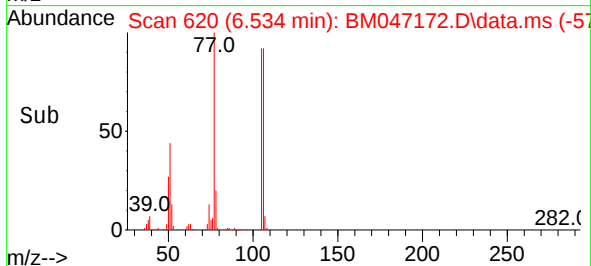
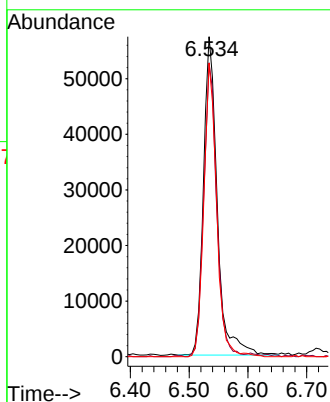
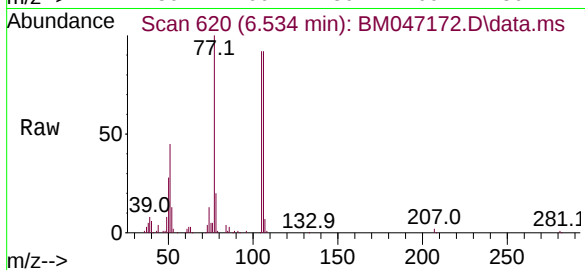
Tgt Ion: 77 Resp: 93261

Ion Ratio Lower Upper

77 100

105 91.9 74.5 114.5

106 91.7 72.3 112.3



#10

Phenol

Concen: 8.154 ng

RT: 6.604 min Scan# 632

Delta R.T. -0.006 min

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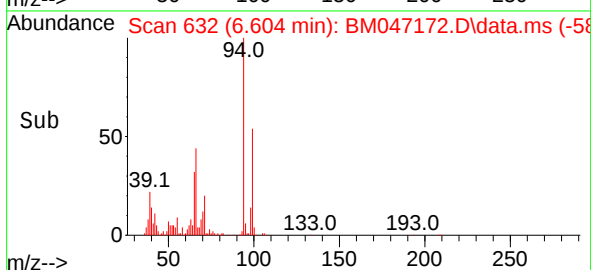
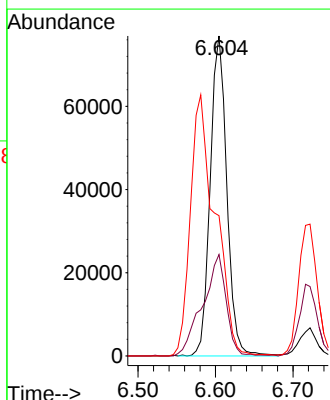
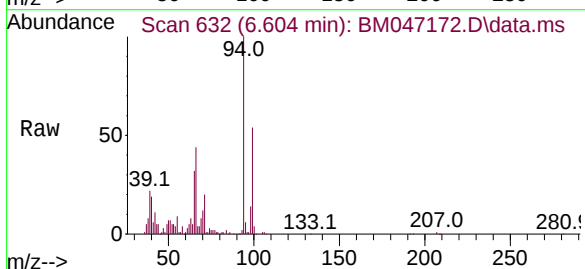
Tgt Ion: 94 Resp: 114716

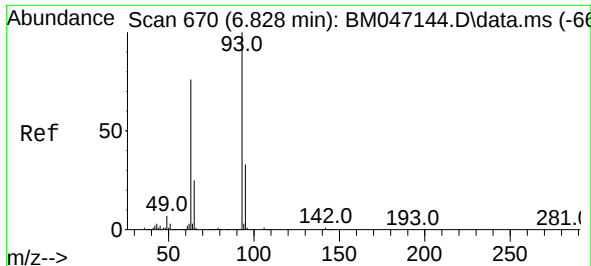
Ion Ratio Lower Upper

94 100

65 31.7 9.0 49.0

66 43.8 18.9 58.9





#11

bis(2-Chloroethyl)ether

Concen: 8.308 ng

RT: 6.822 min Scan# 6

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

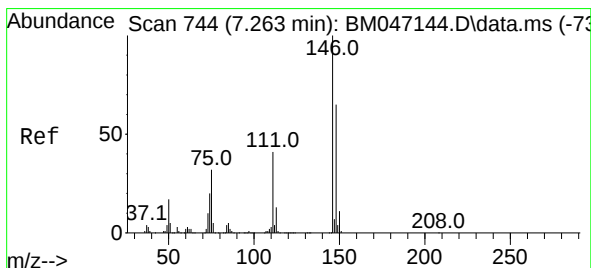
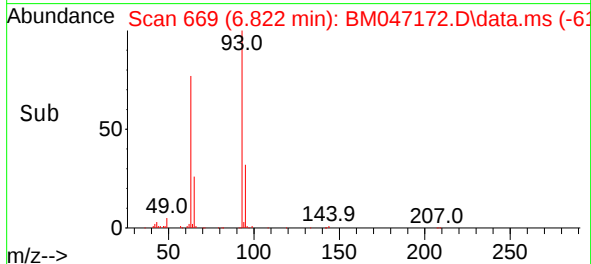
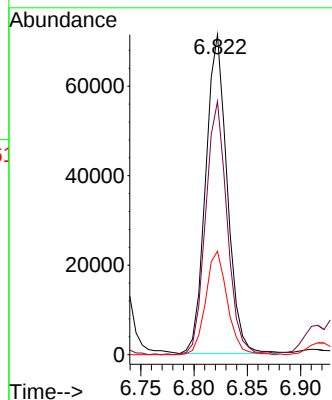
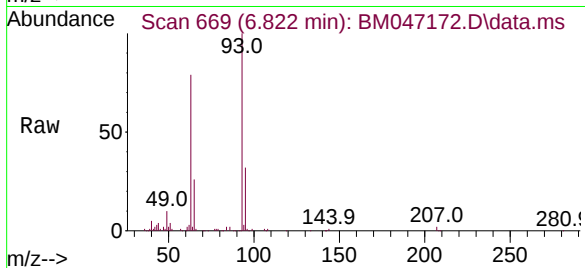
Tgt Ion: 93 Resp: 100095

Ion Ratio Lower Upper

93 100

63 79.2 55.8 95.8

95 32.3 12.7 52.7



#12

1,3-Dichlorobenzene

Concen: 8.061 ng

RT: 7.257 min Scan# 743

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

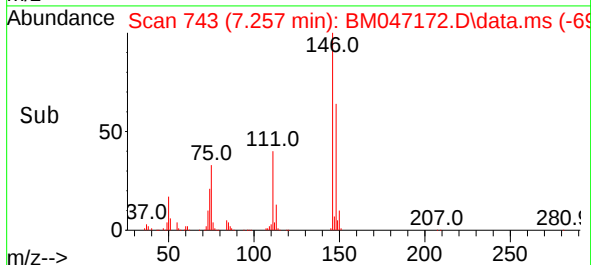
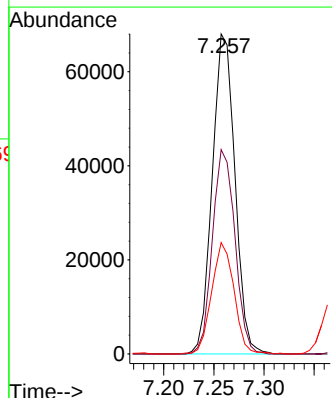
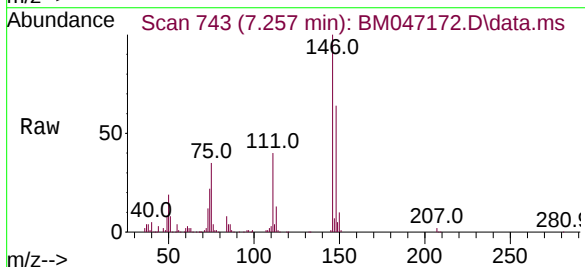
Tgt Ion:146 Resp: 106896

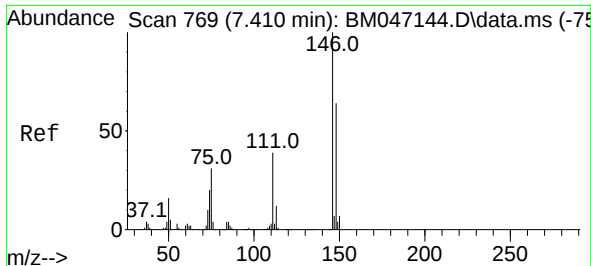
Ion Ratio Lower Upper

146 100

148 63.8 52.3 78.5

75 34.8 25.8 38.6

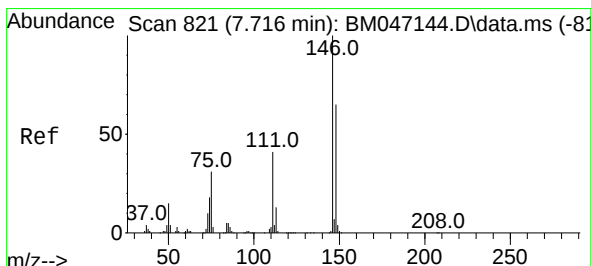
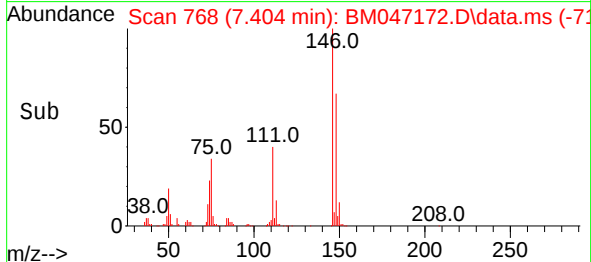
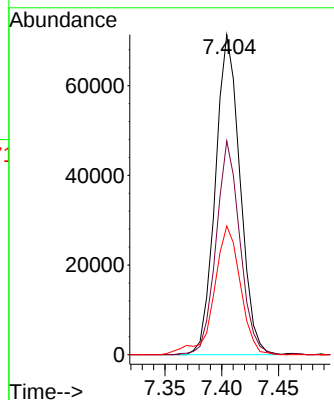
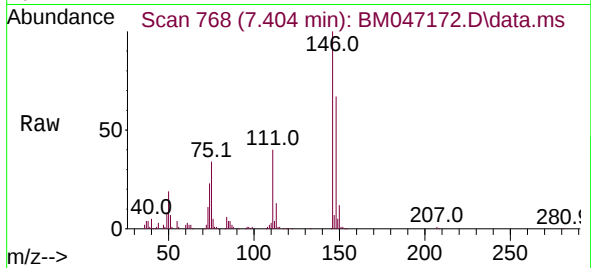




#13
1,4-Dichlorobenzene
Concen: 8.025 ng
RT: 7.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

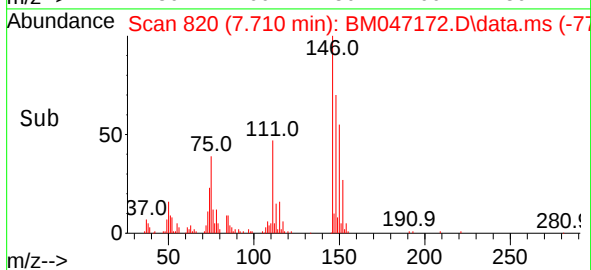
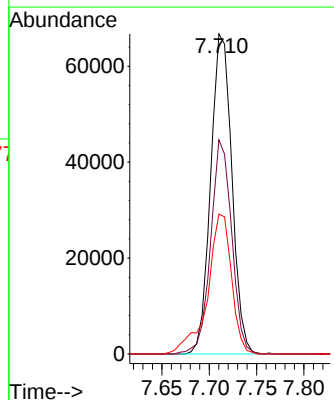
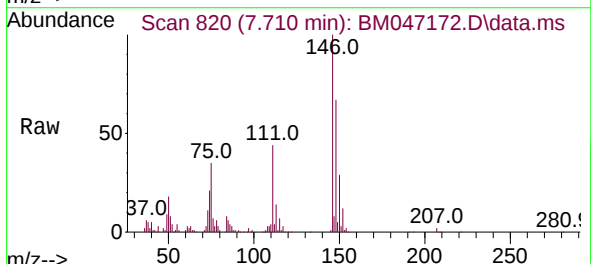
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

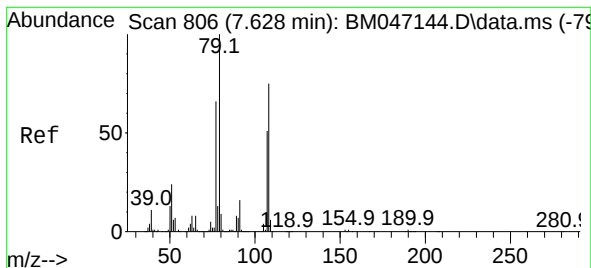
Tgt Ion:146 Resp: 107745
Ion Ratio Lower Upper
146 100
148 66.8 51.4 77.2
111 40.2 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 8.189 ng
RT: 7.710 min Scan# 820
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:146 Resp: 103745
Ion Ratio Lower Upper
146 100
148 66.9 51.8 77.8
111 43.7 33.3 49.9





#15

Benzyl Alcohol

Concen: 7.476 ng

RT: 7.622 min Scan# 806

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

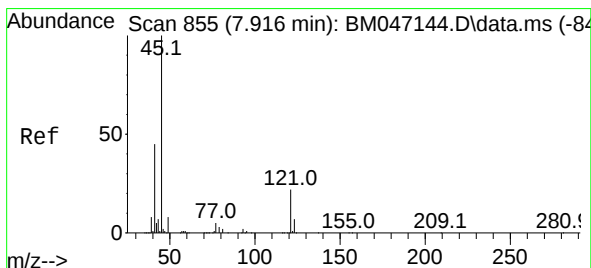
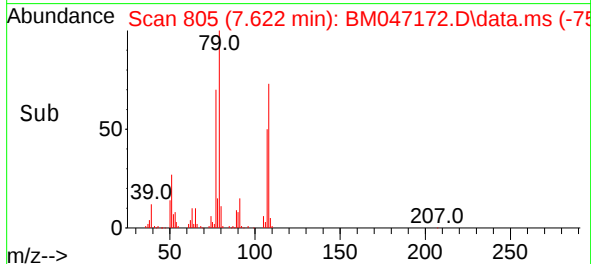
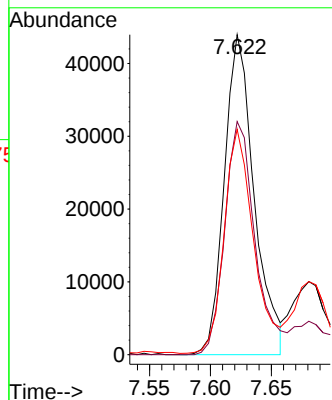
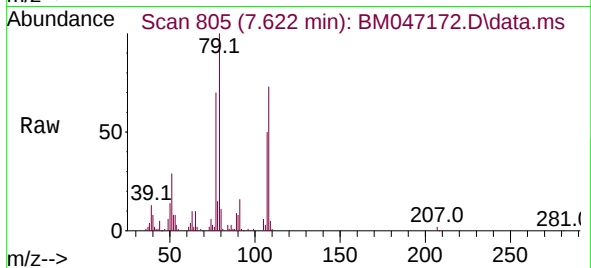
Tgt Ion: 79 Resp: 75018

Ion Ratio Lower Upper

79 100

108 72.8 59.7 89.5

77 70.4 52.9 79.3



#16

2,2'-oxybis(1-Chloropropane)

Concen: 9.189 ng

RT: 7.898 min Scan# 852

Delta R.T. -0.018 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

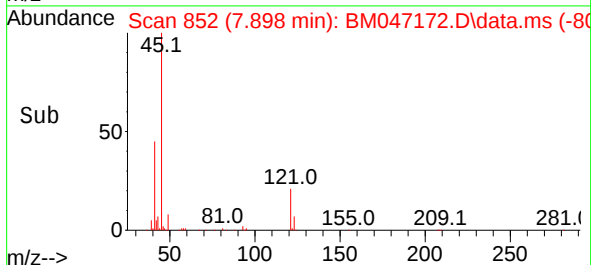
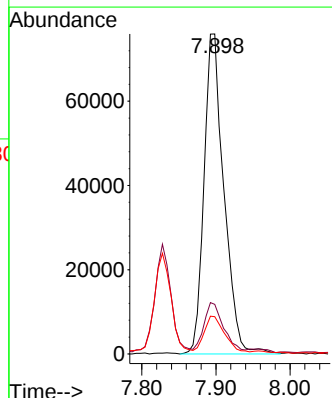
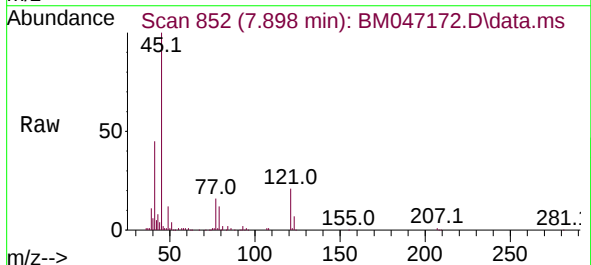
Tgt Ion: 45 Resp: 142055

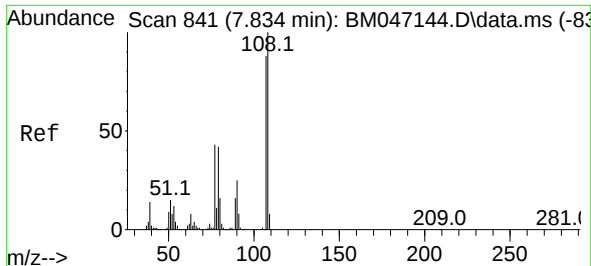
Ion Ratio Lower Upper

45 100

77 15.5 0.0 35.6

79 11.7 0.0 32.4

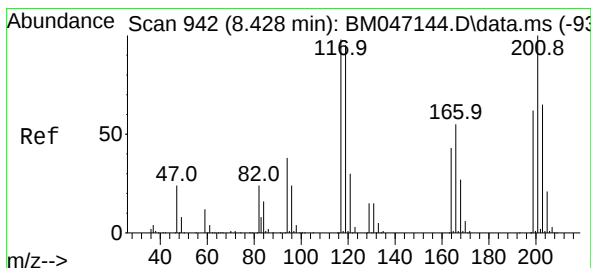
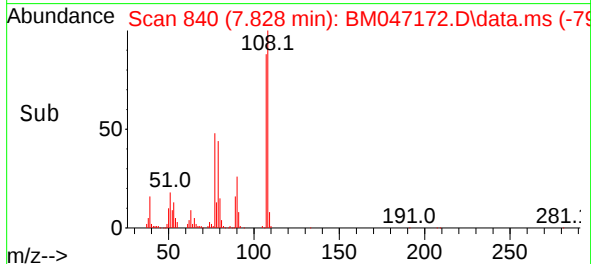
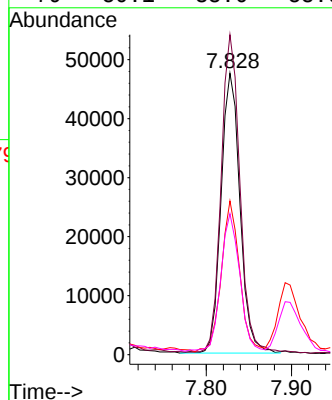
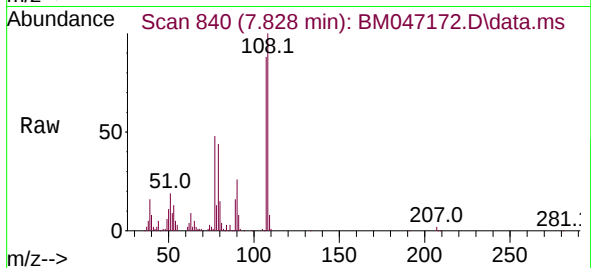




#17
2-Methylphenol
Concen: 7.841 ng
RT: 7.828 min Scan# 841
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

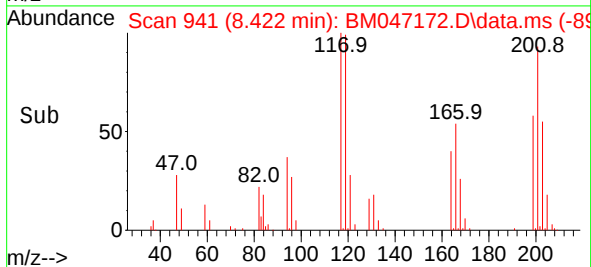
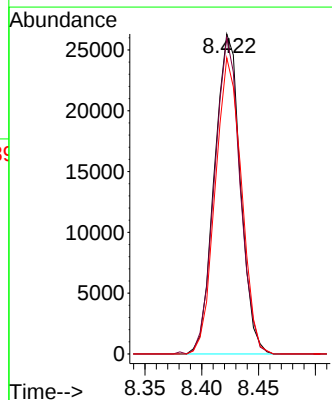
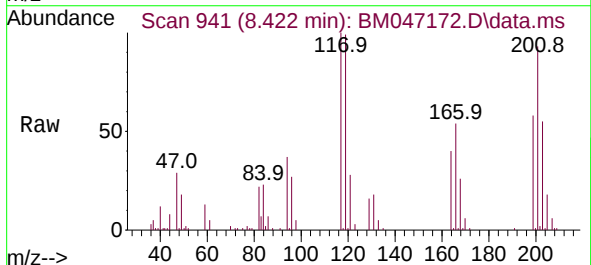
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

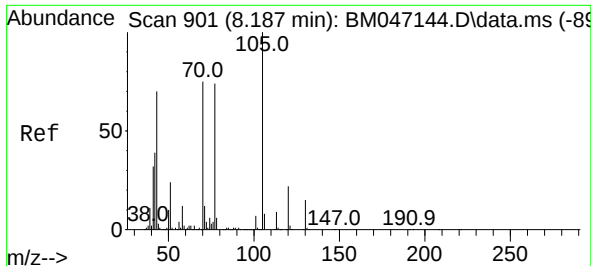
Tgt Ion:	107	Resp:	73594
Ion Ratio	Lower	Upper	
107	100		
108	113.7	90.6	135.8
77	54.6	39.3	58.9
79	50.1	38.6	58.0



#18
Hexachloroethane
Concen: 8.018 ng
RT: 8.422 min Scan# 941
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:	117	Resp:	41703
Ion Ratio	Lower	Upper	
117	100		
119	98.8	77.0	115.4
201	94.3	81.3	121.9





#19

n-Nitroso-di-n-propylamine

Concen: 8.578 ng

RT: 8.181 min Scan# 901

Delta R.T. -0.006 min

Lab File: BM047172.D

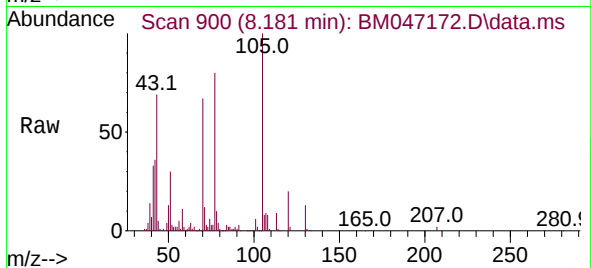
Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024



Tgt Ion: 70 Resp: 81467

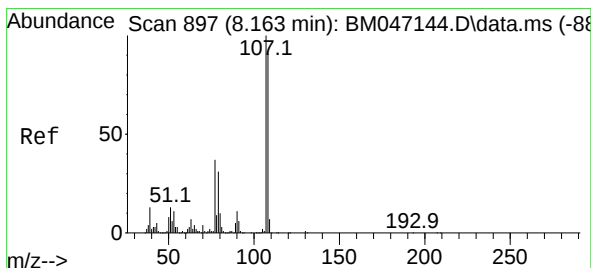
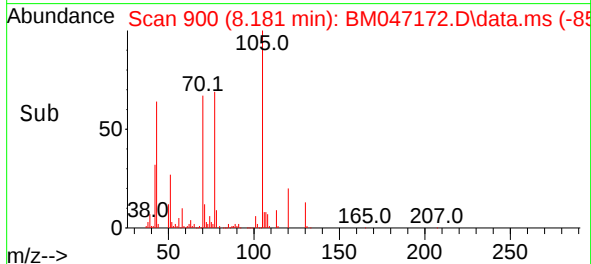
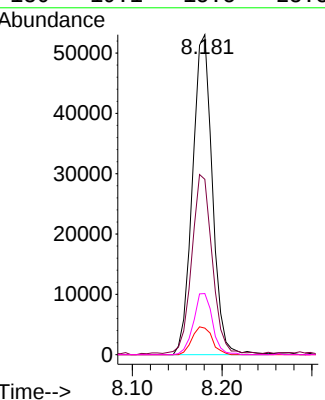
Ion Ratio Lower Upper

70 100

42 54.8 42.0 63.0

101 8.3 7.2 10.8

130 19.1 15.5 23.3



#20

3+4-Methylphenols

Concen: 7.762 ng

RT: 8.157 min Scan# 896

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Tgt Ion:107 Resp: 101845

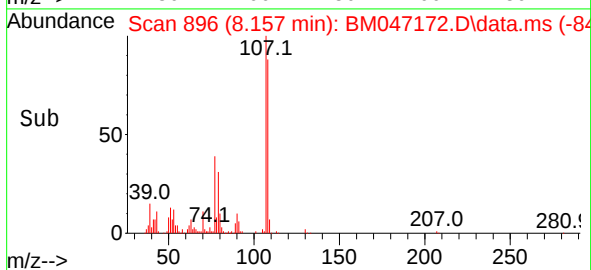
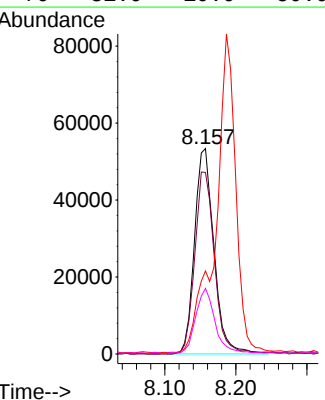
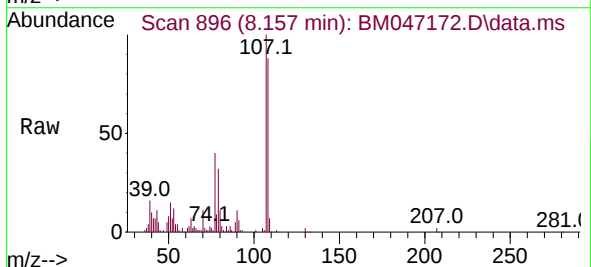
Ion Ratio Lower Upper

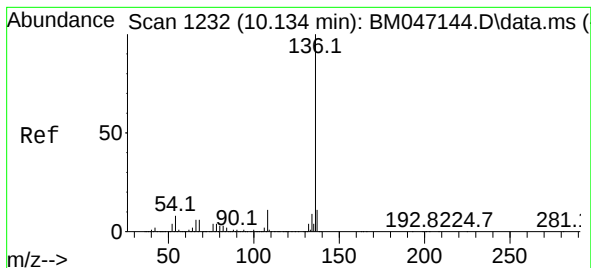
107 100

108 88.4 70.7 110.7

77 40.4 17.4 57.4

79 31.9 10.9 50.9





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.128 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion:136 Resp: 757219

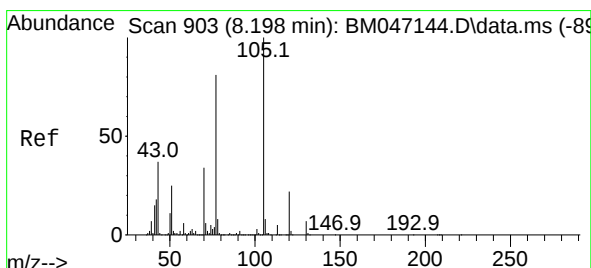
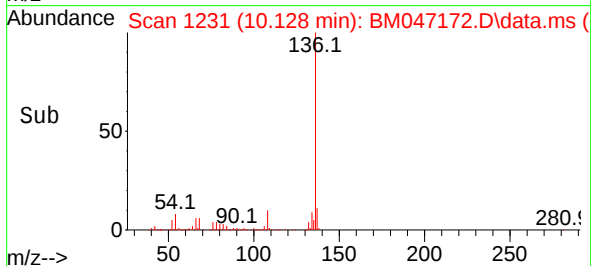
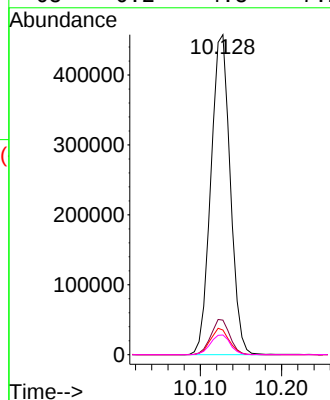
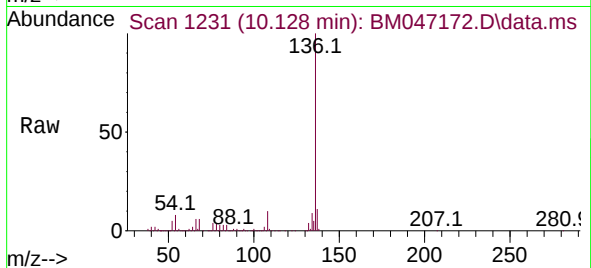
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 7.7 6.0 9.0

68 6.2 4.8 7.2



#22

Acetophenone

Concen: 8.707 ng

RT: 8.187 min Scan# 901

Delta R.T. -0.012 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Tgt Ion:105 Resp: 159146

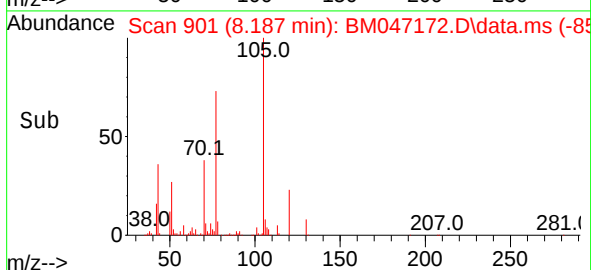
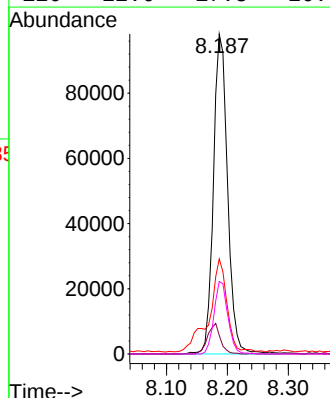
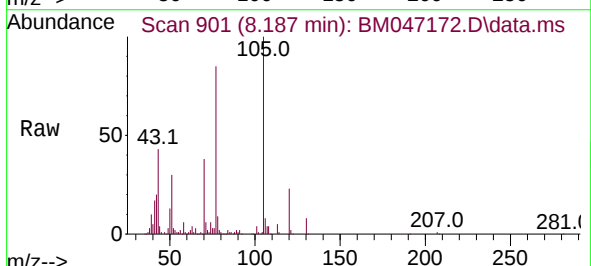
Ion Ratio Lower Upper

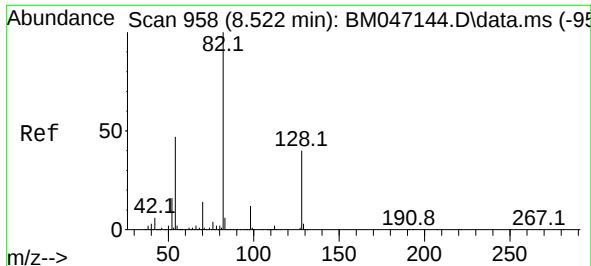
105 100

71 5.8 4.5 6.7

51 29.7 20.1 30.1

120 22.6 17.8 26.6





#23

Nitrobenzene-d5

Concen: 86.981 ng

RT: 8.516 min Scan# 90

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

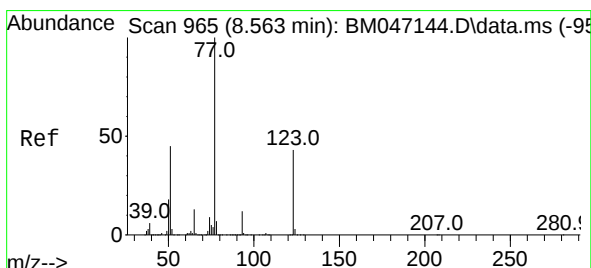
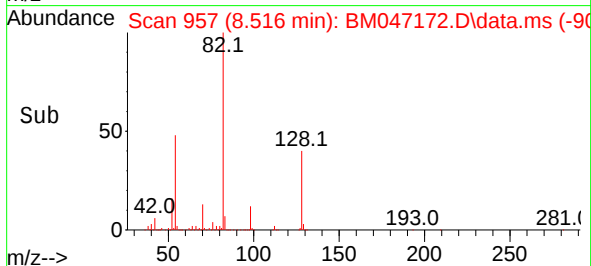
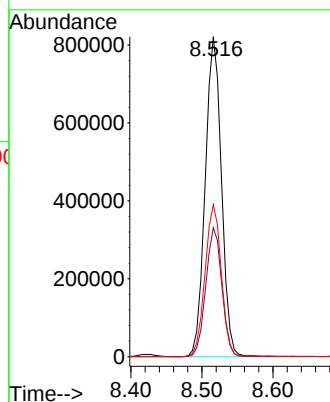
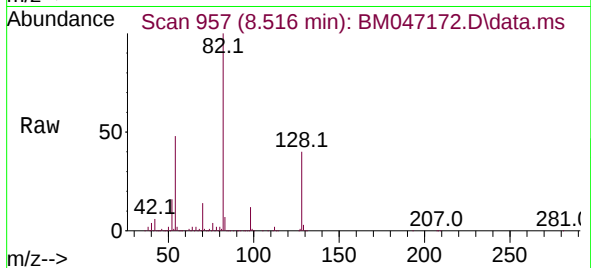
Tgt Ion: 82 Resp: 1308037

Ion Ratio Lower Upper

82 100

128 40.3 32.3 48.5

54 47.5 37.4 56.2



#24

Nitrobenzene

Concen: 8.477 ng

RT: 8.557 min Scan# 964

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

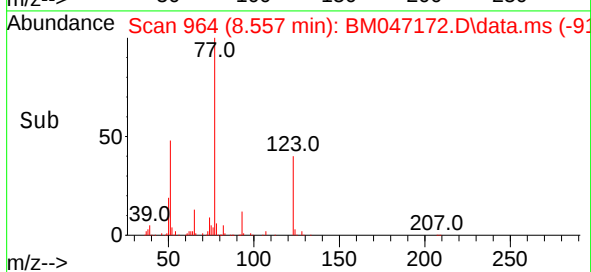
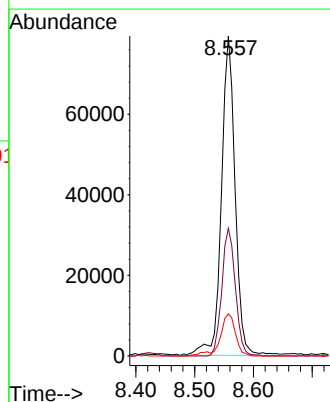
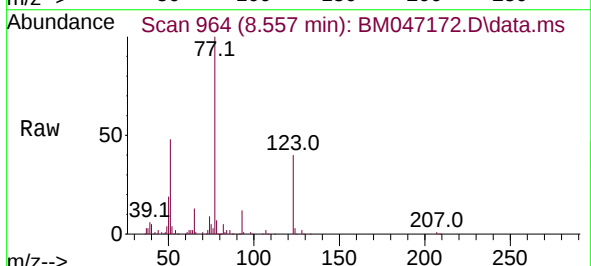
Tgt Ion: 77 Resp: 128365

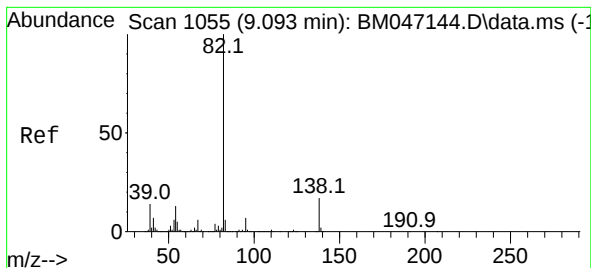
Ion Ratio Lower Upper

77 100

123 39.9 34.0 51.0

65 13.2 10.5 15.7





#25

Isophorone

Concen: 8.159 ng

RT: 9.081 min Scan# 1053

Delta R.T. -0.012 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

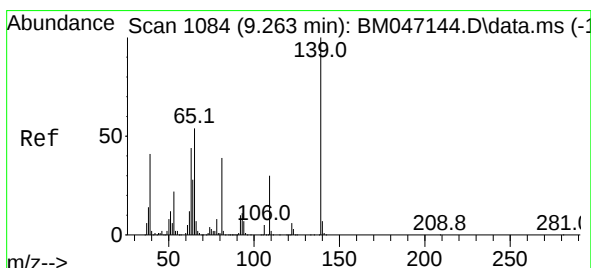
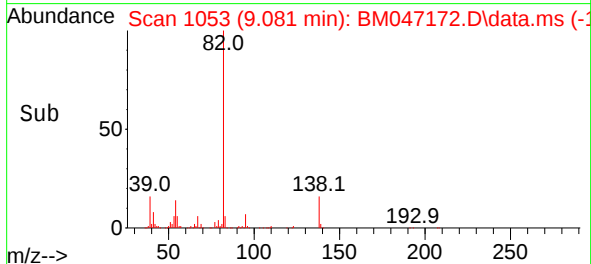
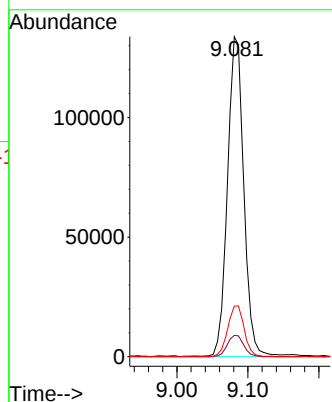
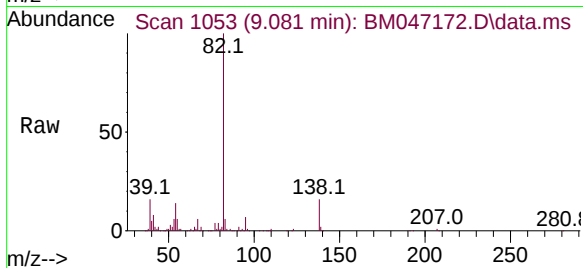
Tgt Ion: 82 Resp: 213640

Ion Ratio Lower Upper

82 100

95 6.7 5.5 8.3

138 15.8 13.5 20.3



#26

2-Nitrophenol

Concen: 6.535 ng

RT: 9.257 min Scan# 1083

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

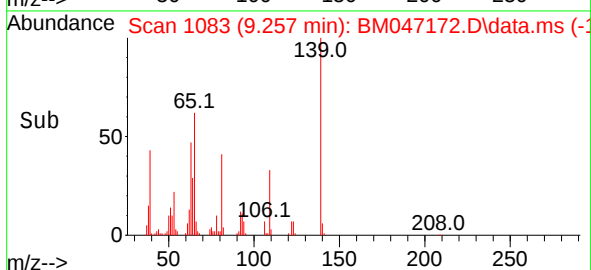
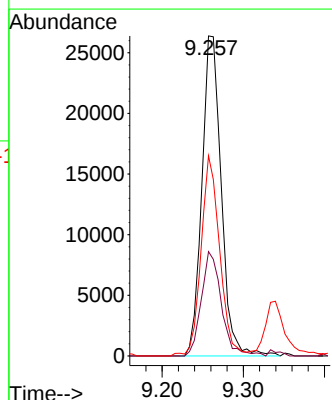
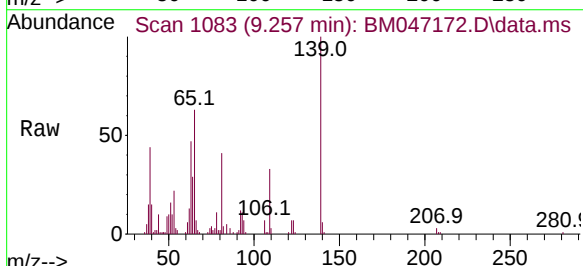
Tgt Ion: 139 Resp: 43823

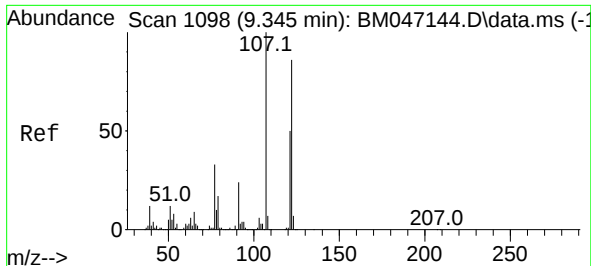
Ion Ratio Lower Upper

139 100

109 32.6 24.4 36.6

65 62.6 43.0 64.6





#27

2,4-Dimethylphenol

Concen: 8.008 ng

RT: 9.339 min Scan# 1097

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

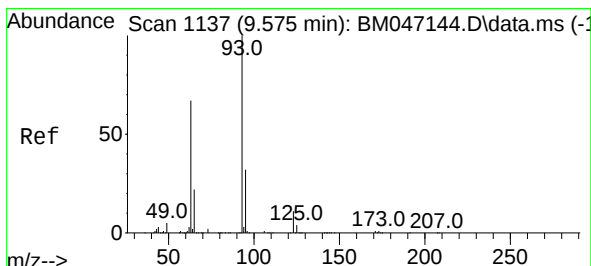
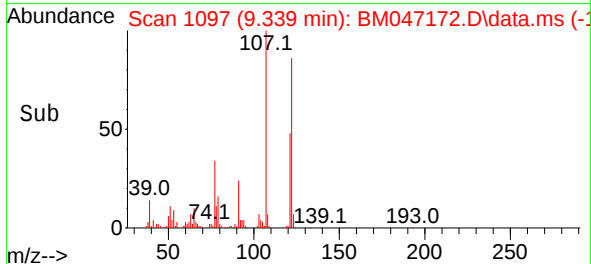
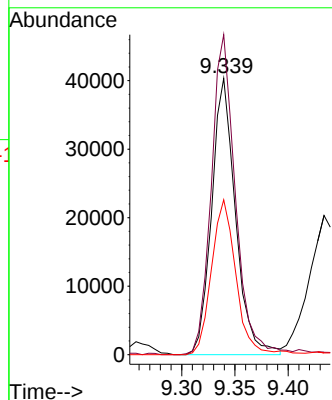
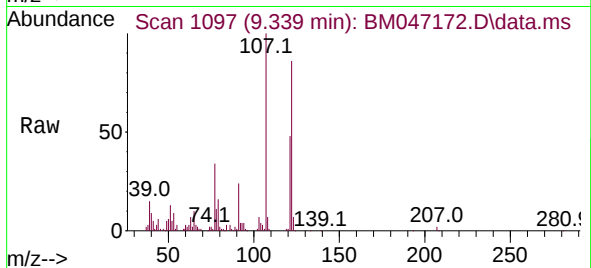
Tgt Ion:122 Resp: 62905

Ion Ratio Lower Upper

122 100

107 115.8 92.8 139.2

121 56.0 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 8.226 ng

RT: 9.569 min Scan# 1136

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

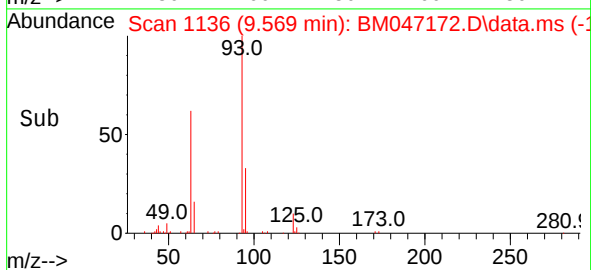
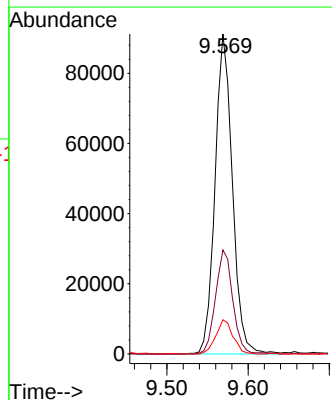
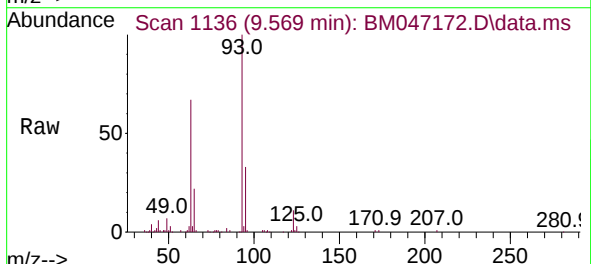
Tgt Ion: 93 Resp: 135532

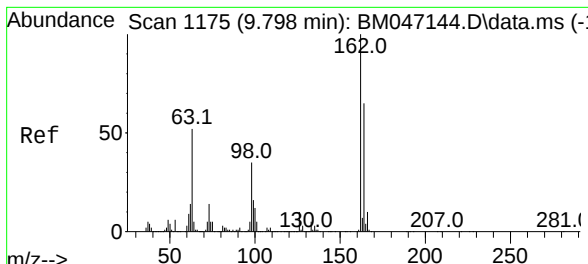
Ion Ratio Lower Upper

93 100

95 32.5 25.8 38.8

123 10.7 9.0 13.4

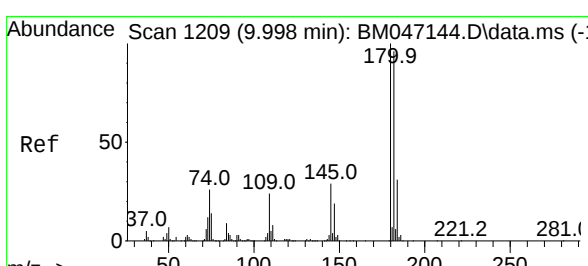
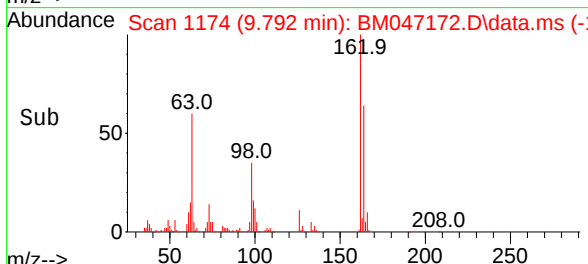
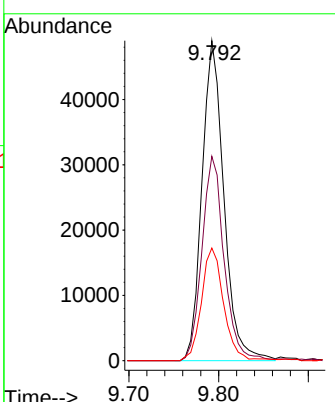
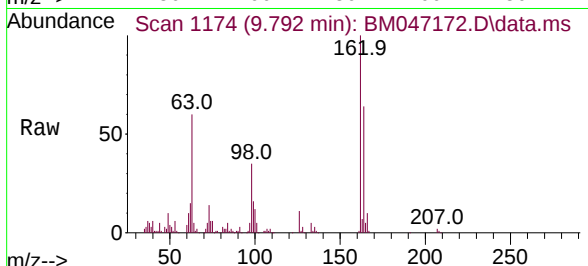




#29
 2,4-Dichlorophenol
 Concen: 7.130 ng
 RT: 9.792 min Scan# 1174
 Delta R.T. -0.006 min
 Lab File: BM047172.D
 Acq: 13 Aug 2024 13:04

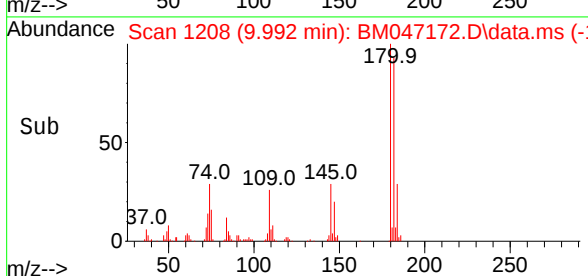
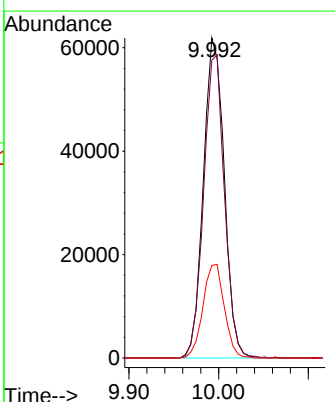
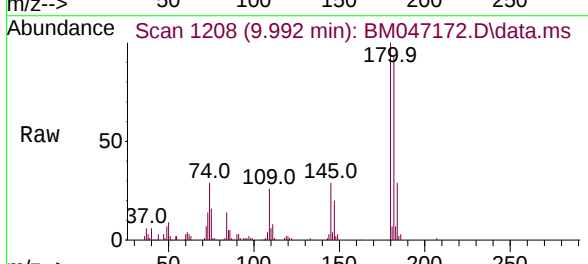
Instrument : BNA_M
 ClientSampleId : MDL-SOIL-03-QT3-2024

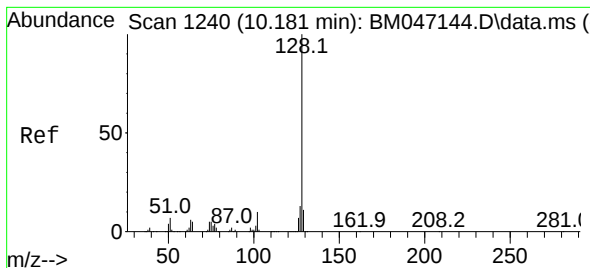
Tgt Ion:	162	Resp:	83105
Ion Ratio	Lower	Upper	
162	100		
164	63.9	44.7	84.7
98	35.2	14.9	54.9



#30
 1,2,4-Trichlorobenzene
 Concen: 7.587 ng
 RT: 9.992 min Scan# 1208
 Delta R.T. -0.006 min
 Lab File: BM047172.D
 Acq: 13 Aug 2024 13:04

Tgt Ion:	180	Resp:	100081
Ion Ratio	Lower	Upper	
180	100		
182	93.1	76.6	115.0
145	28.9	23.4	35.2





#31

Naphthalene

Concen: 8.082 ng

RT: 10.175 min Scan# 1113

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

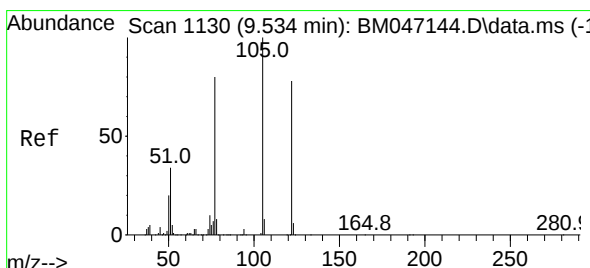
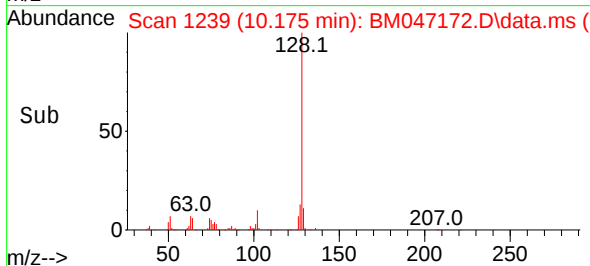
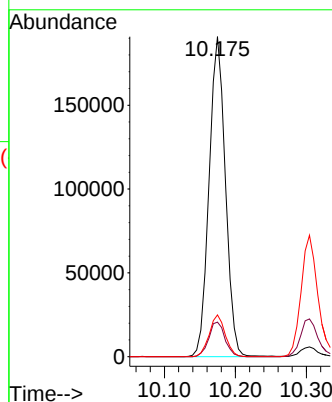
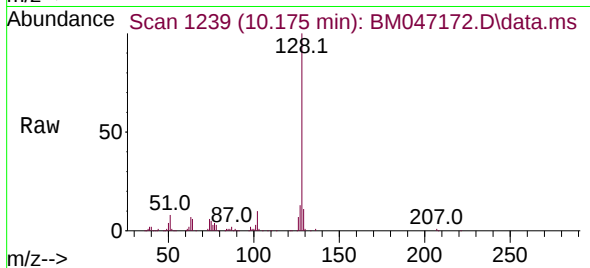
Tgt Ion:128 Resp: 304872

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

127 13.1 10.2 15.4



#32

Benzoic acid

Concen: 4.416 ng

RT: 9.434 min Scan# 1113

Delta R.T. -0.100 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

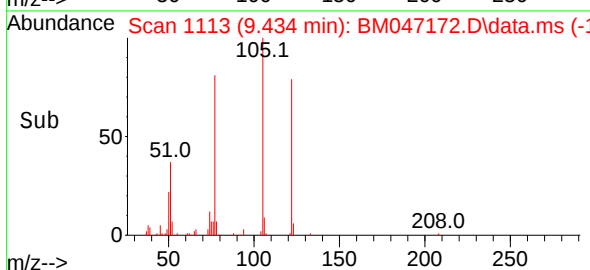
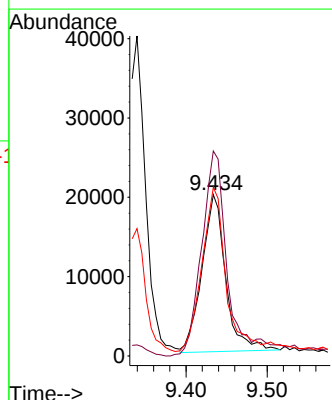
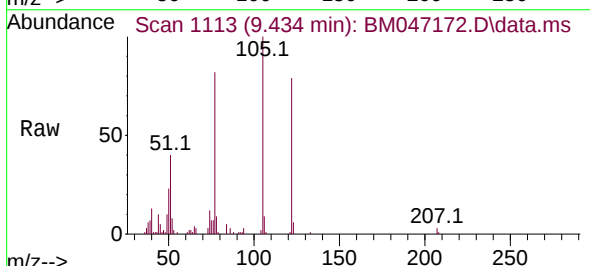
Tgt Ion:122 Resp: 40304

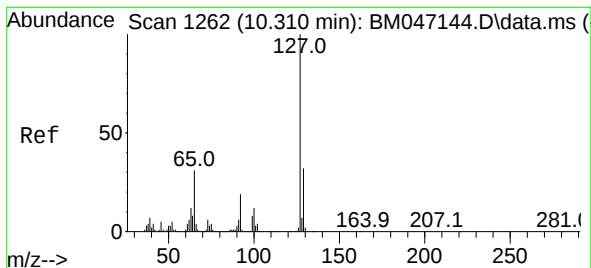
Ion Ratio Lower Upper

122 100

105 127.1 107.1 147.1

77 104.6 82.1 122.1





#33

4-Chloroaniline

Concen: 8.331 ng

RT: 10.304 min Scan# 1261

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion:127 Resp: 120851

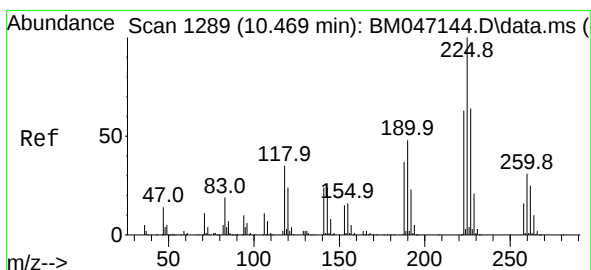
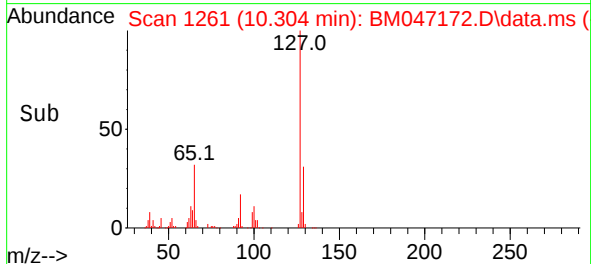
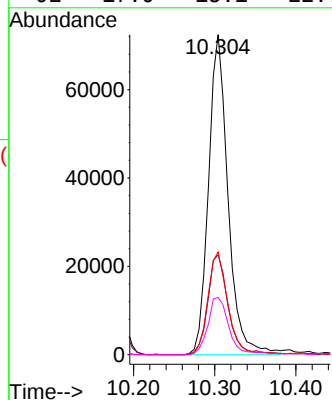
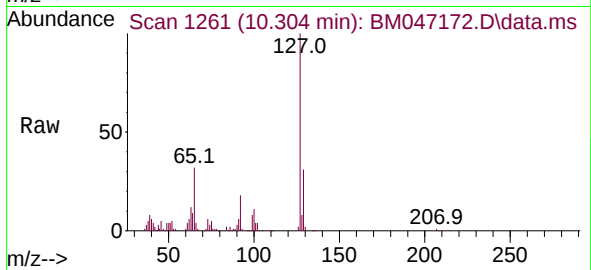
Ion Ratio Lower Upper

127 100

129 31.2 25.8 38.8

65 32.1 24.9 37.3

92 17.9 15.1 22.7



#34

Hexachlorobutadiene

Concen: 7.090 ng

RT: 10.463 min Scan# 1288

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

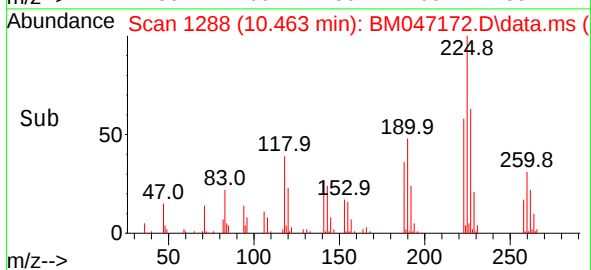
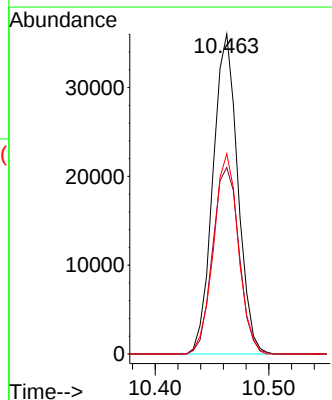
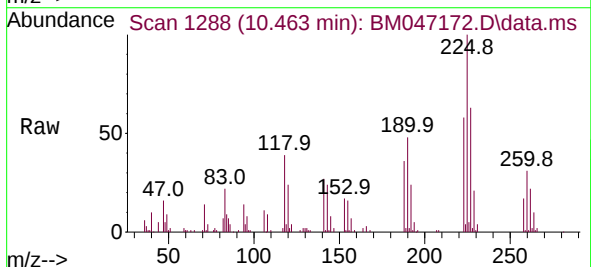
Tgt Ion:225 Resp: 54739

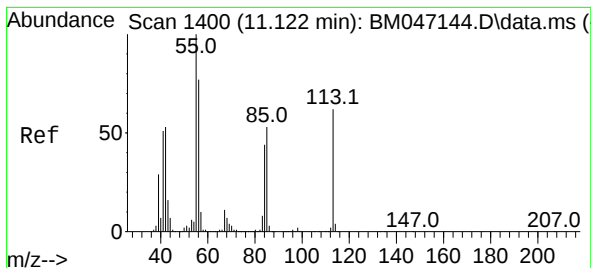
Ion Ratio Lower Upper

225 100

223 58.2 50.2 75.2

227 62.6 51.4 77.0





#35

Caprolactam

Concen: 6.900 ng

RT: 11.086 min Scan# 1400

Delta R.T. -0.035 min

Lab File: BM047172.D

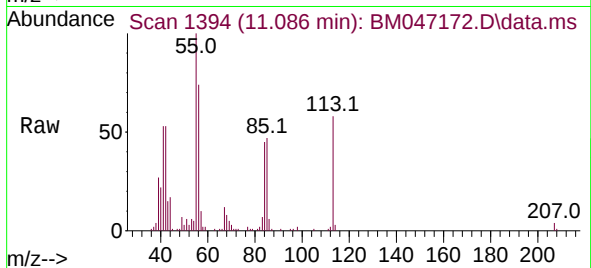
Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024



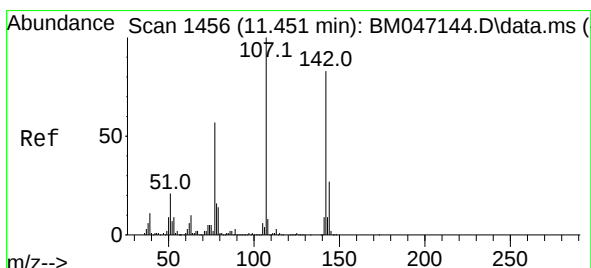
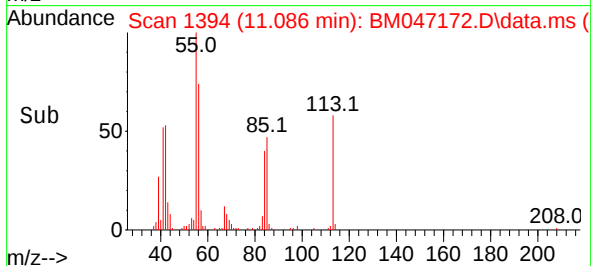
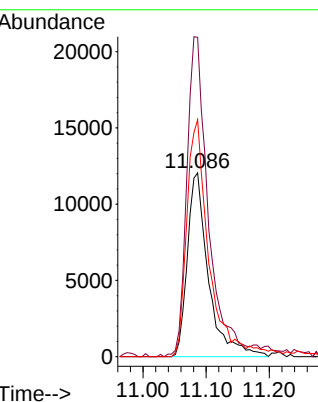
Tgt Ion:113 Resp: 27929

Ion Ratio Lower Upper

113 100

55 173.8 140.5 180.5

56 129.0 103.6 143.6



#36

4-Chloro-3-methylphenol

Concen: 7.280 ng

RT: 11.445 min Scan# 1455

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

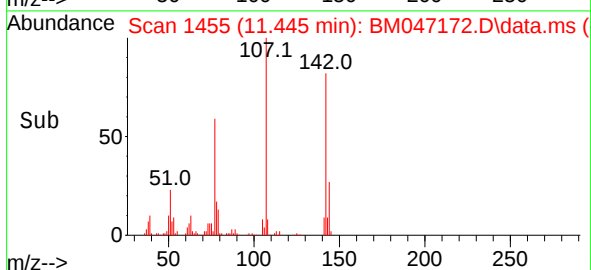
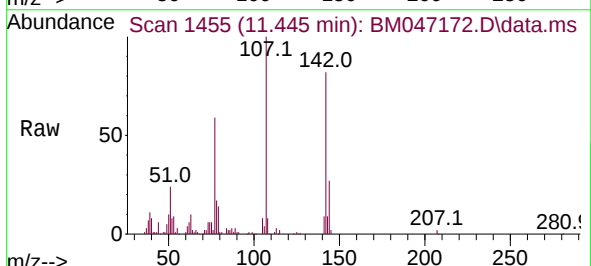
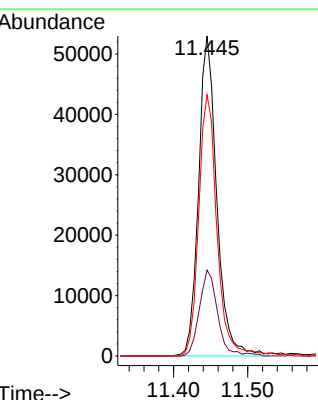
Tgt Ion:107 Resp: 90372

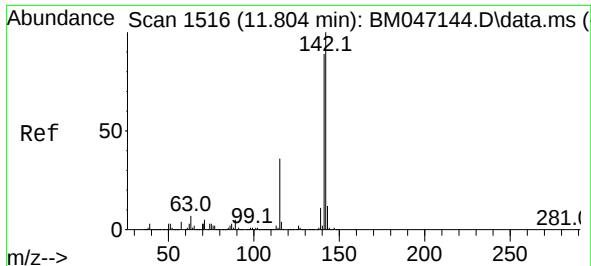
Ion Ratio Lower Upper

107 100

144 26.8 21.8 32.6

142 81.6 66.8 100.2

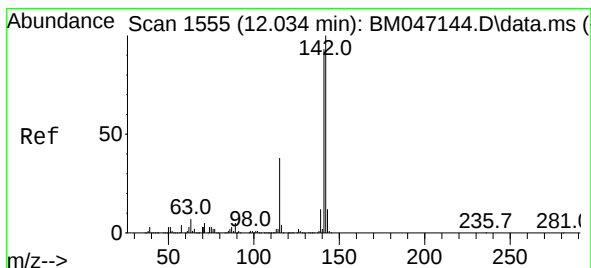
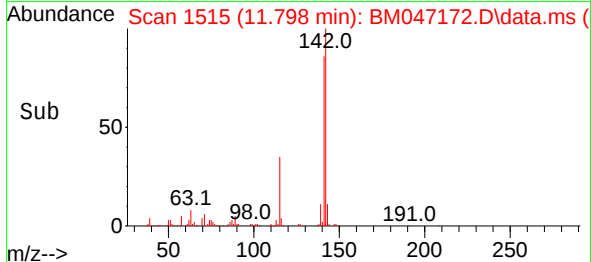
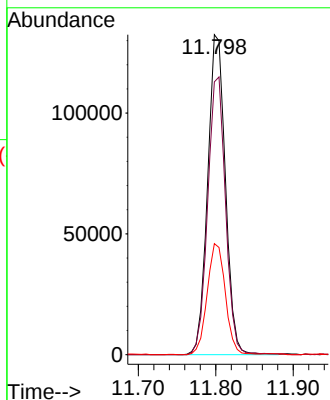
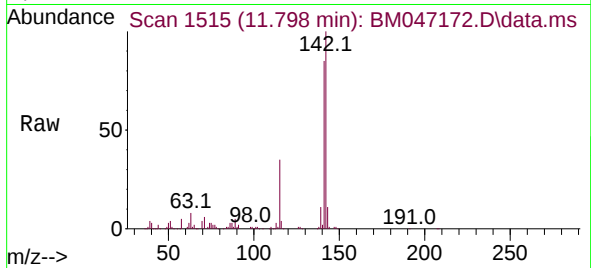




#37
2-Methylnaphthalene
Concen: 7.852 ng
RT: 11.798 min Scan# 1515
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

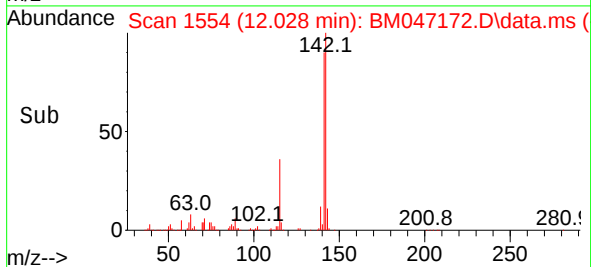
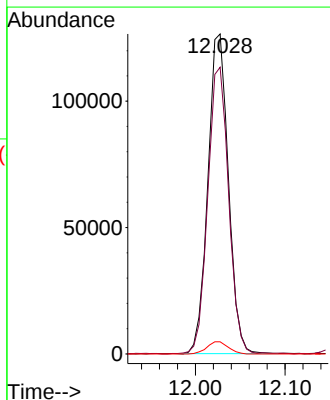
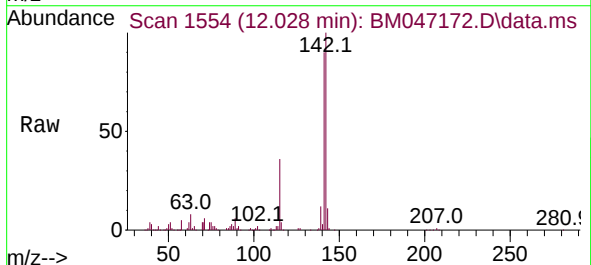
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

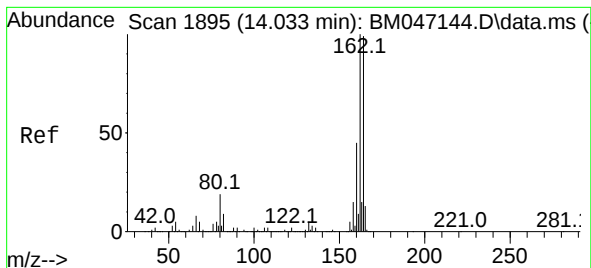
Tgt Ion:142 Resp: 210899
Ion Ratio Lower Upper
142 100
141 85.3 70.9 106.3
115 34.7 28.7 43.1



#38
1-Methylnaphthalene
Concen: 7.547 ng
RT: 12.028 min Scan# 1554
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:142 Resp: 200326
Ion Ratio Lower Upper
142 100
141 89.6 74.6 111.8
116 3.8 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.027 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

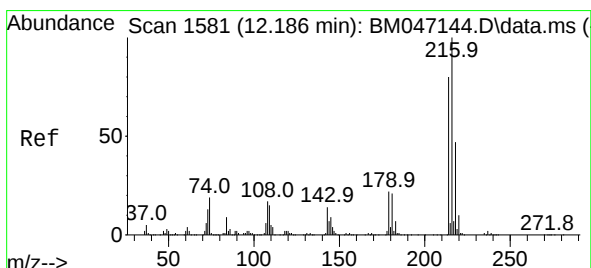
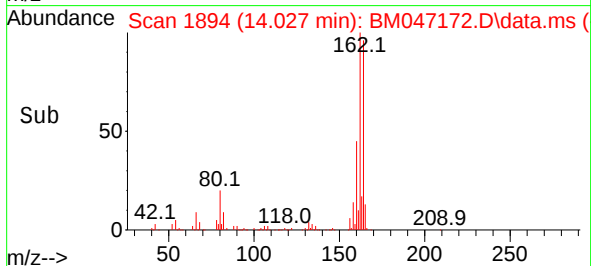
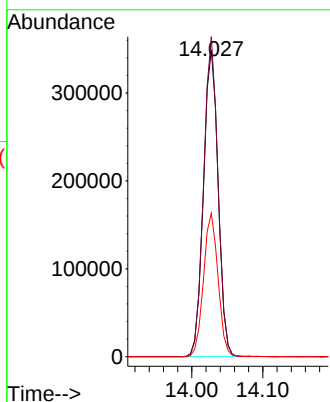
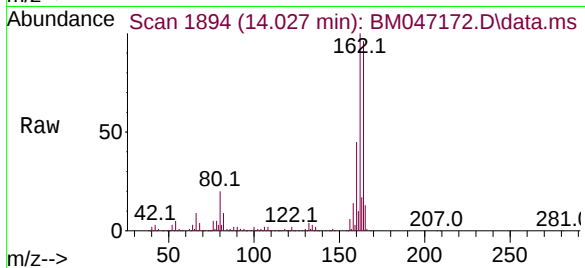
Tgt Ion:164 Resp: 502487

Ion Ratio Lower Upper

164 100

162 104.3 80.7 121.1

160 46.8 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 7.459 ng

RT: 12.180 min Scan# 1580

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Tgt Ion:216 Resp: 102230

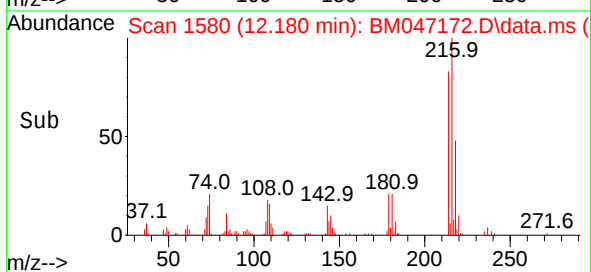
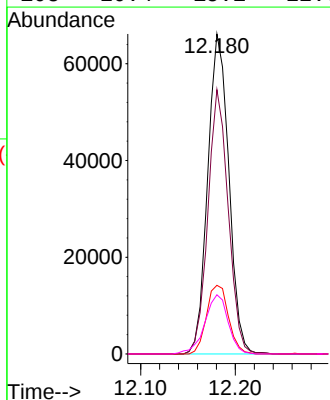
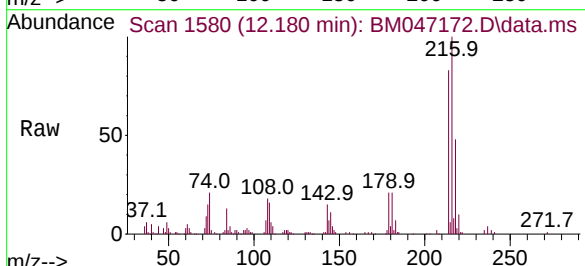
Ion Ratio Lower Upper

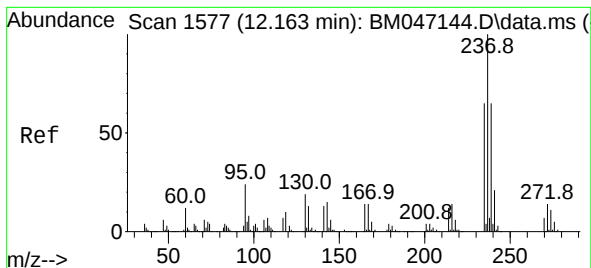
216 100

214 79.6 63.4 95.2

179 22.4 17.6 26.4

108 20.4 15.1 22.7





#41

Hexachlorocyclopentadiene

Concen: 7.861 ng

RT: 12.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

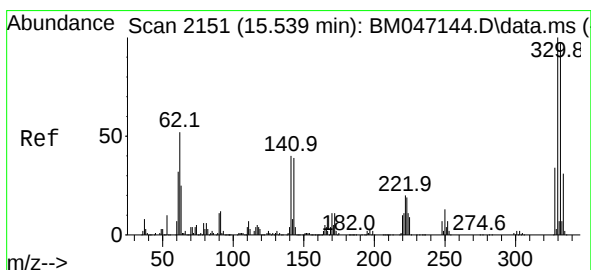
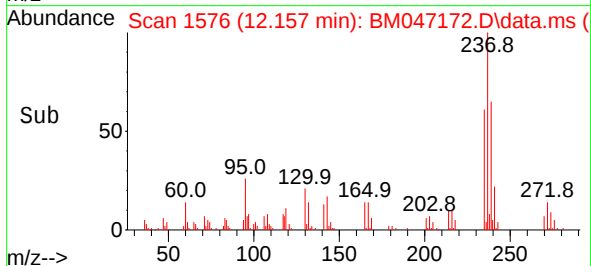
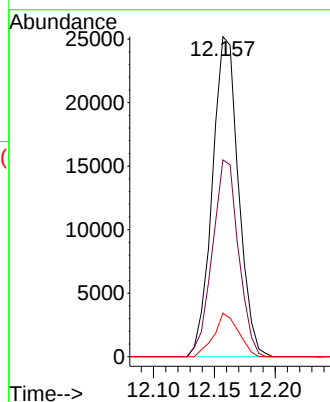
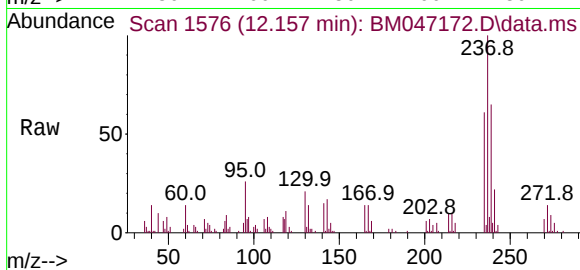
Tgt Ion:237 Resp: 37620

Ion Ratio Lower Upper

237 100

235 61.5 44.8 84.8

272 13.6 0.0 33.5



#42

2,4,6-Tribromophenol

Concen: 130.537 ng

RT: 15.533 min Scan# 2150

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

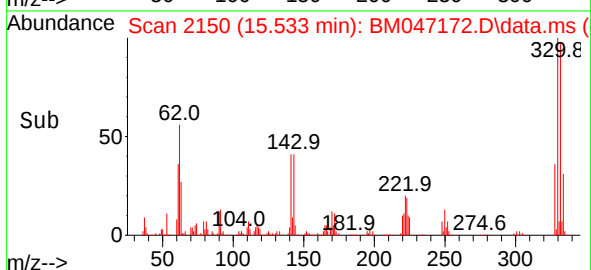
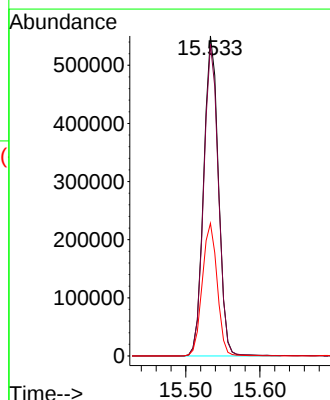
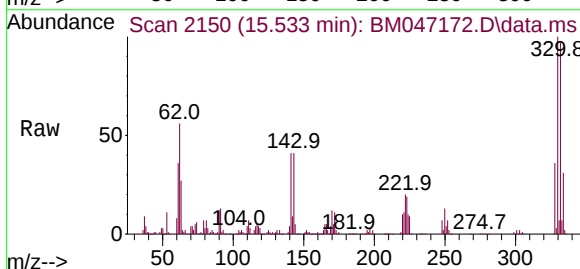
Tgt Ion:330 Resp: 760565

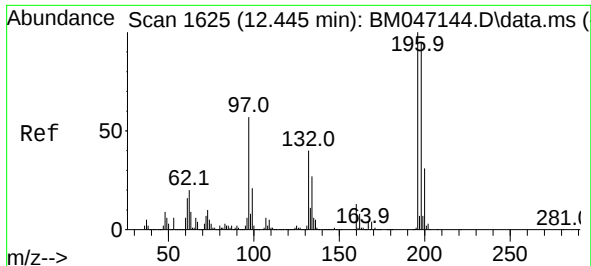
Ion Ratio Lower Upper

330 100

332 97.4 77.4 116.2

141 42.1 31.6 47.4





#43

2,4,6-Trichlorophenol

Concen: 6.670 ng

RT: 12.439 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

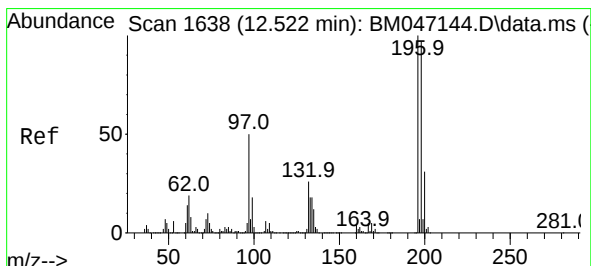
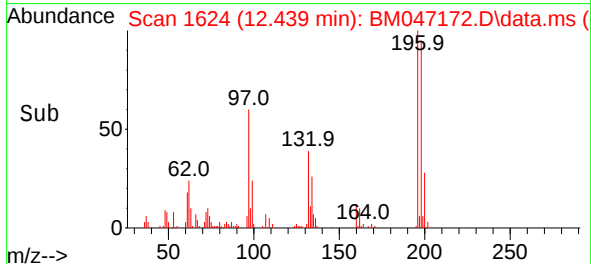
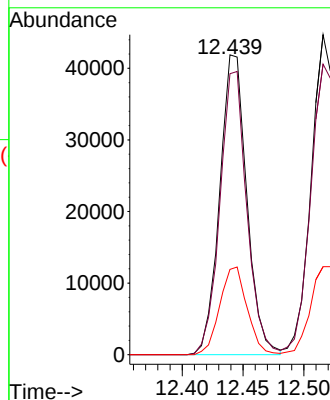
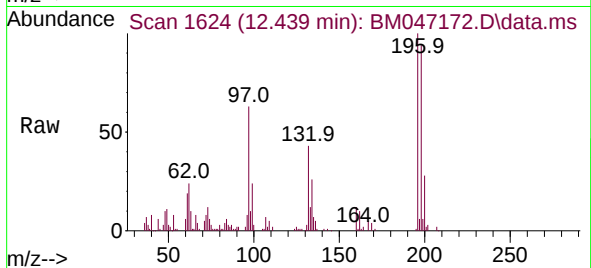
Tgt Ion:196 Resp: 64971

Ion Ratio Lower Upper

196 100

198 93.7 75.6 113.4

200 28.4 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 6.754 ng

RT: 12.516 min Scan# 1637

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Tgt Ion:196 Resp: 73052

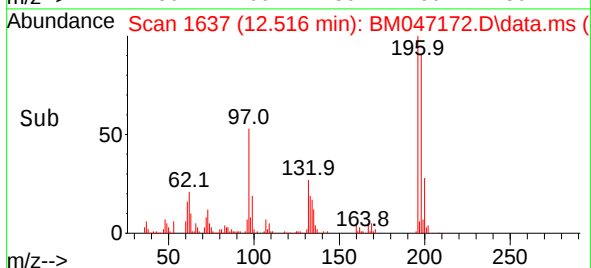
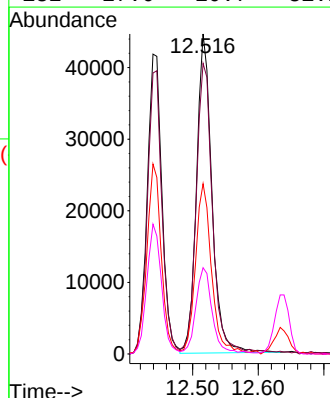
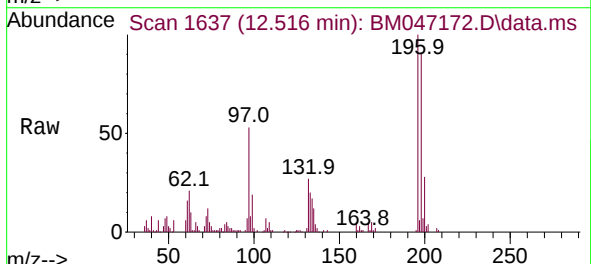
Ion Ratio Lower Upper

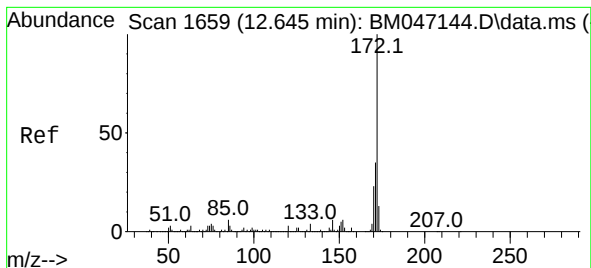
196 100

198 90.8 77.7 116.5

97 53.2 39.8 59.8

132 27.0 20.7 31.1





#45

2-Fluorobiphenyl

Concen: 81.825 ng

RT: 12.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

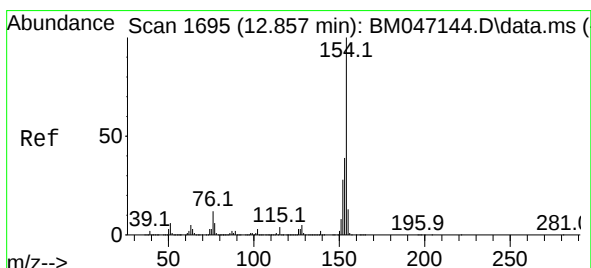
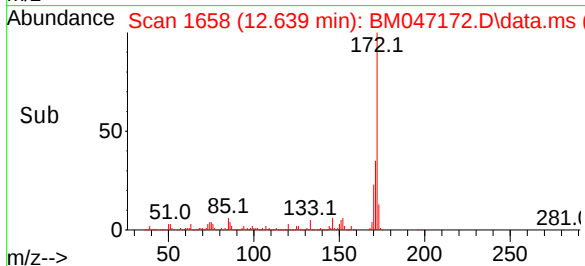
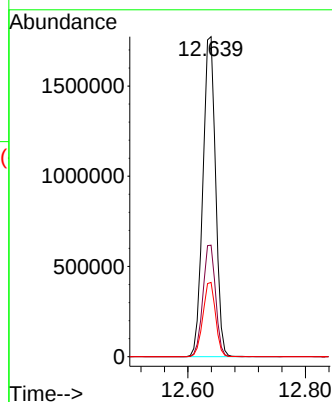
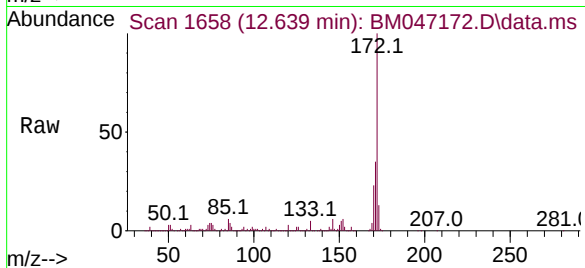
Tgt Ion:172 Resp: 2665506

Ion Ratio Lower Upper

172 100

171 34.8 27.8 41.6

170 23.2 18.7 28.1



#46

1,1'-Biphenyl

Concen: 8.198 ng

RT: 12.851 min Scan# 1694

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

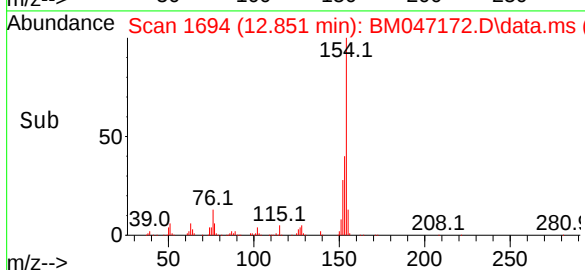
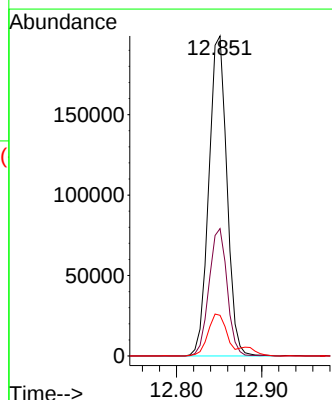
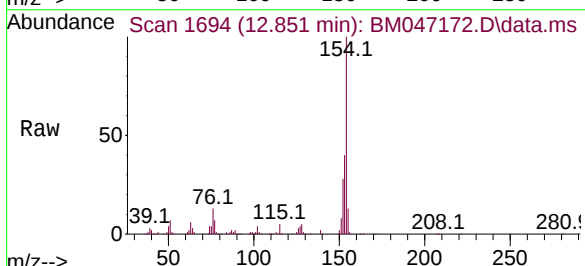
Tgt Ion:154 Resp: 293252

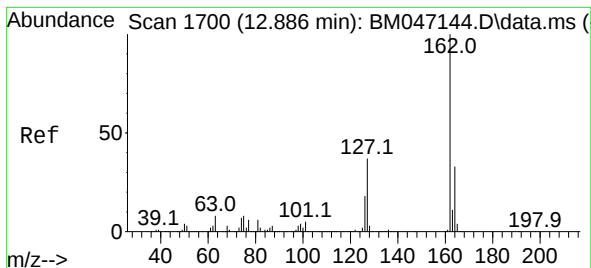
Ion Ratio Lower Upper

154 100

153 39.8 19.0 59.0

76 12.7 0.0 31.9





#47

2-Chloronaphthalene

Concen: 8.007 ng

RT: 12.880 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

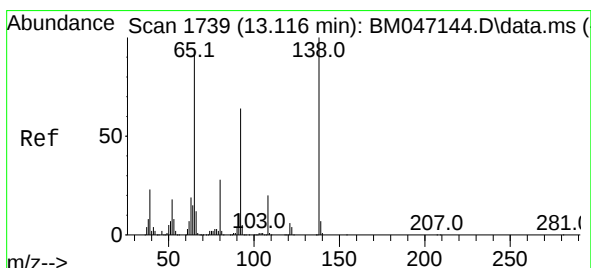
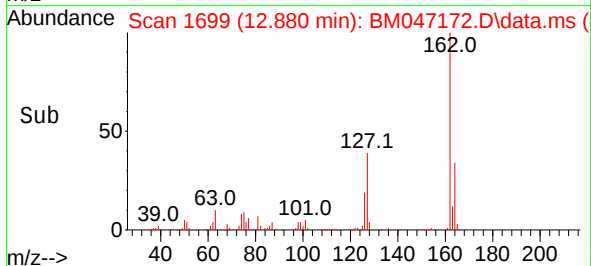
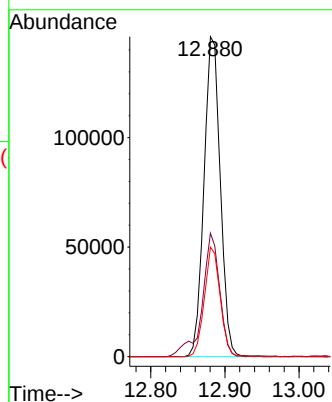
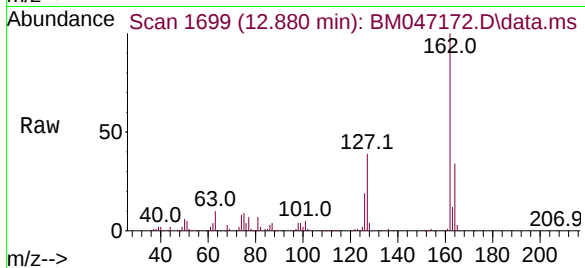
Tgt Ion:162 Resp: 223876

Ion Ratio Lower Upper

162 100

127 38.6 30.0 45.0

164 34.3 26.3 39.5



#48

2-Nitroaniline

Concen: 7.545 ng

RT: 13.110 min Scan# 1738

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

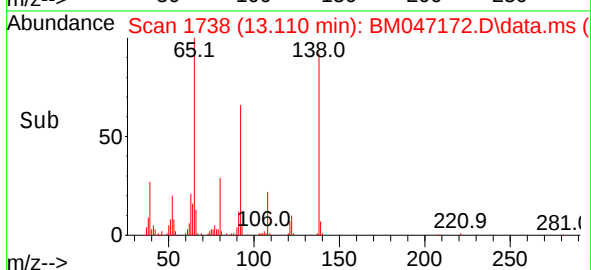
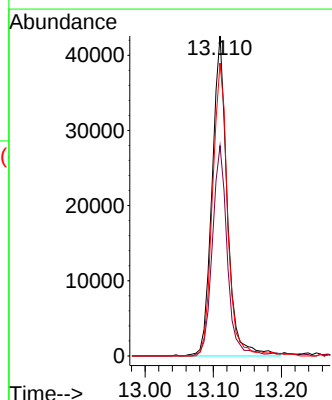
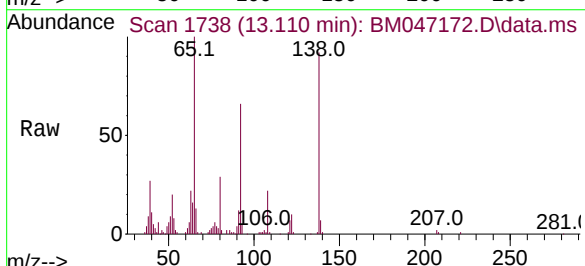
Tgt Ion: 65 Resp: 66086

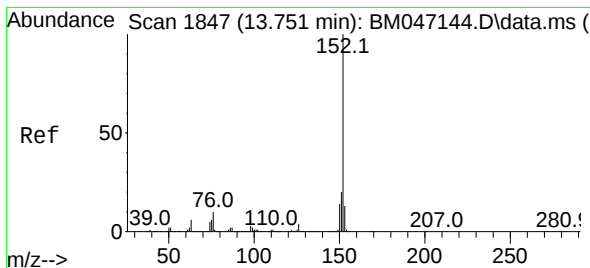
Ion Ratio Lower Upper

65 100

92 65.7 55.1 82.7

138 91.6 85.9 128.9





#49

Acenaphthylene

Concen: 8.694 ng

RT: 13.745 min Scan# 1846

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

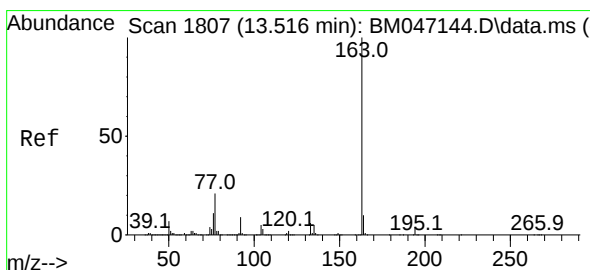
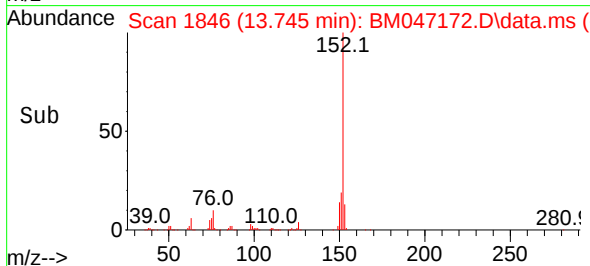
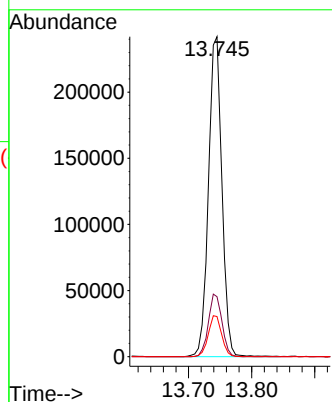
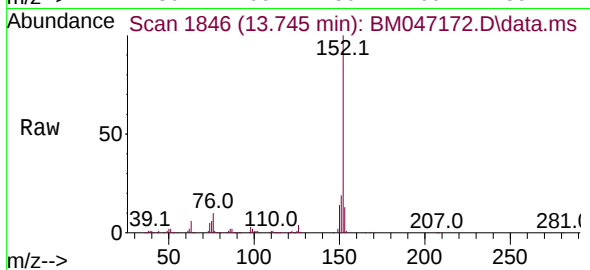
Tgt Ion:152 Resp: 358335

Ion Ratio Lower Upper

152 100

151 18.8 15.8 23.6

153 12.5 10.4 15.6



#50

Dimethylphthalate

Concen: 8.136 ng

RT: 13.504 min Scan# 1805

Delta R.T. -0.012 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

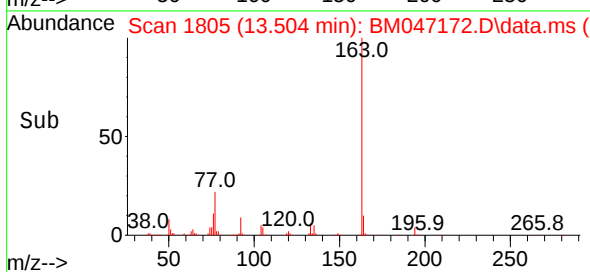
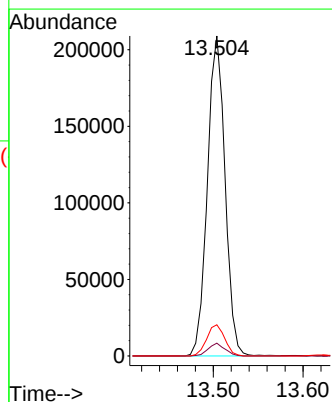
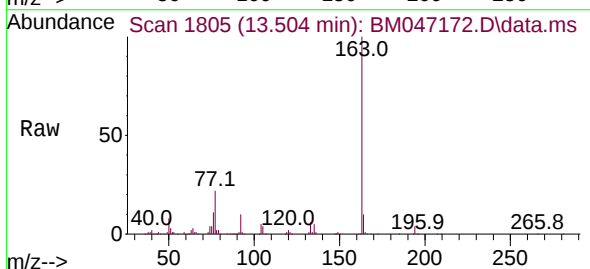
Tgt Ion:163 Resp: 285513

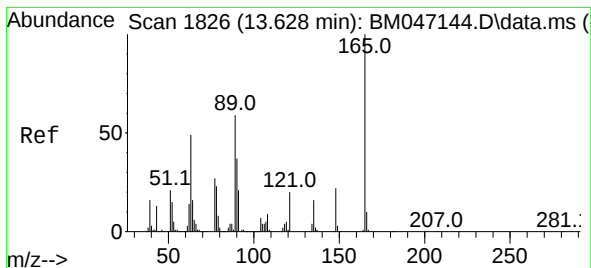
Ion Ratio Lower Upper

163 100

194 4.0 3.0 4.6

164 9.8 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 6.970 ng

RT: 13.622 min Scan# 1826

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

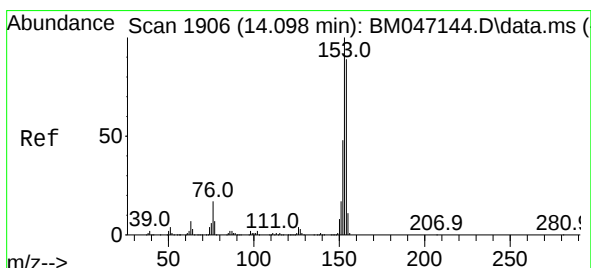
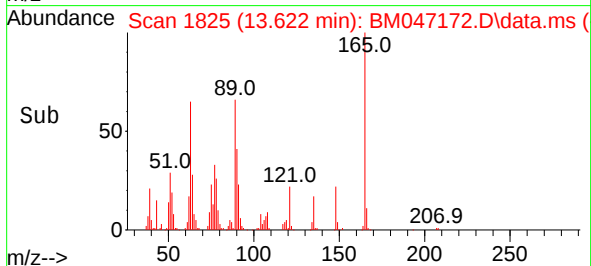
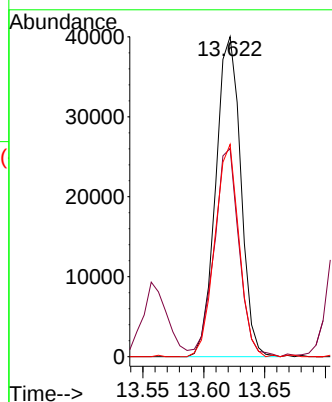
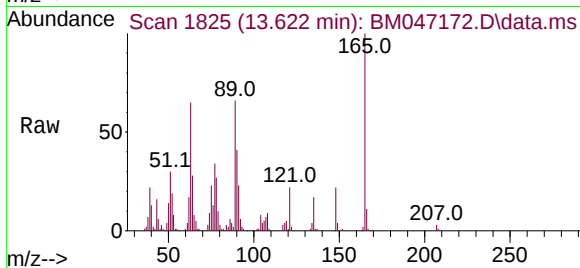
Tgt Ion:165 Resp: 57178

Ion Ratio Lower Upper

165 100

63 65.0 46.5 69.7

89 66.4 47.3 70.9



#52

Acenaphthene

Concen: 7.861 ng

RT: 14.092 min Scan# 1905

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

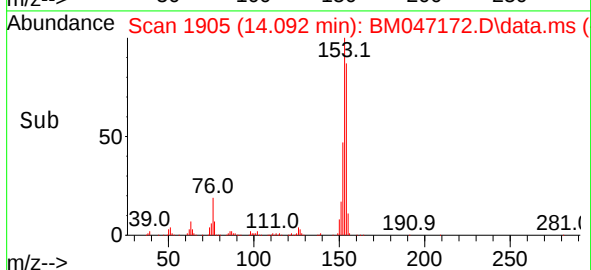
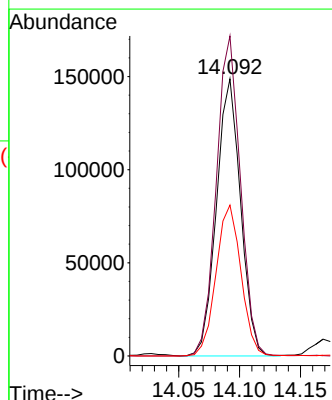
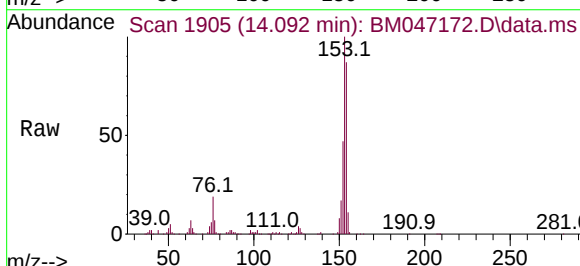
Tgt Ion:154 Resp: 205513

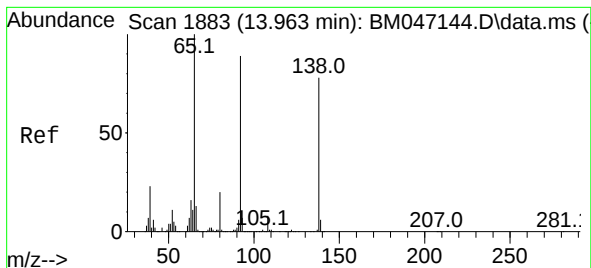
Ion Ratio Lower Upper

154 100

153 115.5 90.3 135.5

152 54.5 42.9 64.3

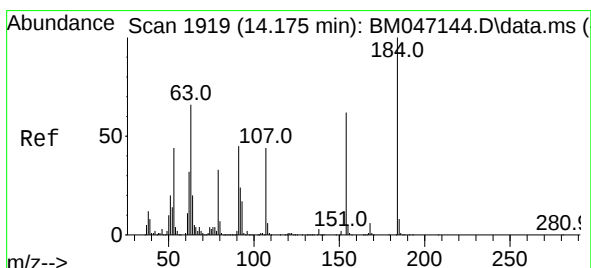
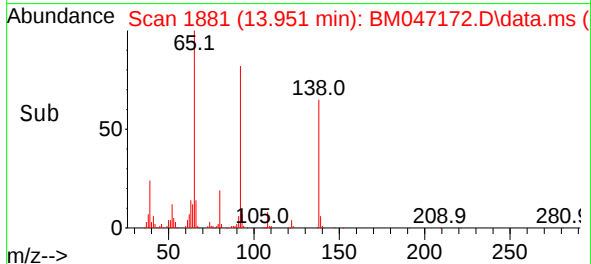
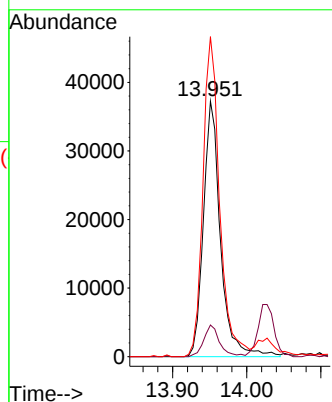
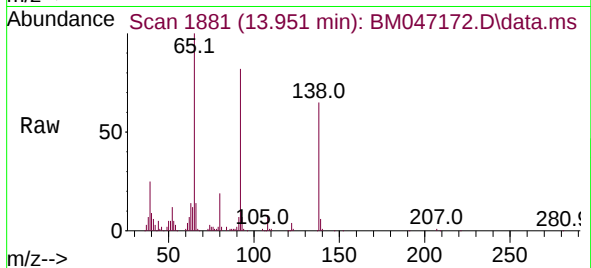




#53
3-Nitroaniline
Concen: 7.251 ng
RT: 13.951 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

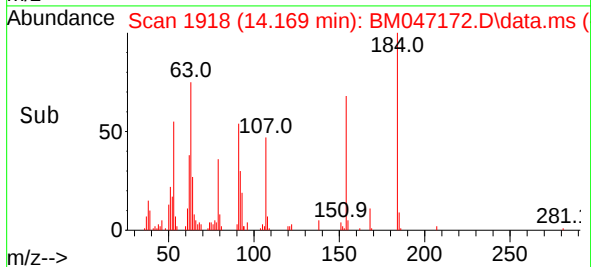
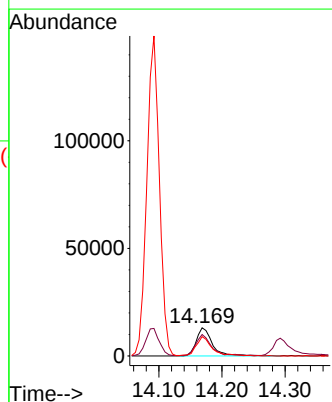
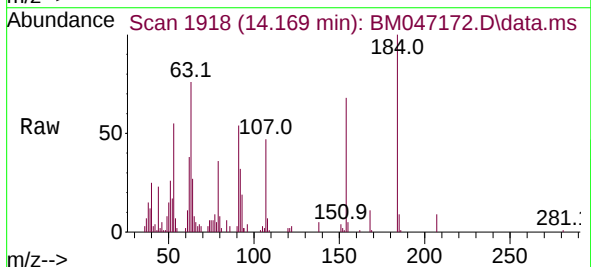
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

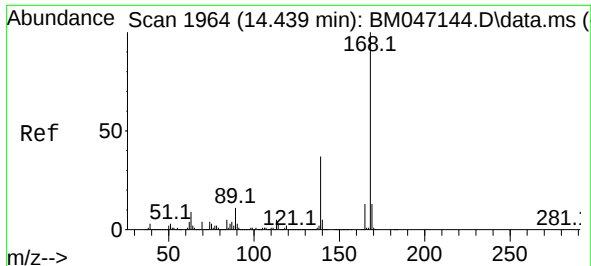
Tgt Ion:138 Resp: 59610
Ion Ratio Lower Upper
138 100
108 12.4 7.9 11.9#
92 125.3 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 4.650 ng
RT: 14.169 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:184 Resp: 22865
Ion Ratio Lower Upper
184 100
63 75.9 52.7 79.1
154 68.5 50.4 75.6





#55

Dibenzenofuran

Concen: 8.603 ng

RT: 14.433 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

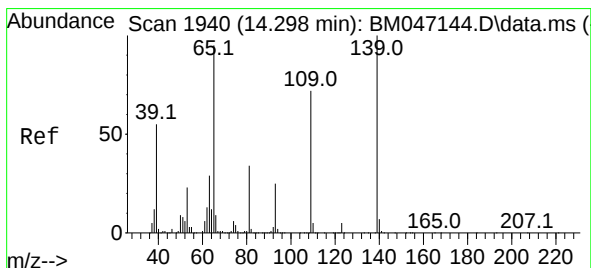
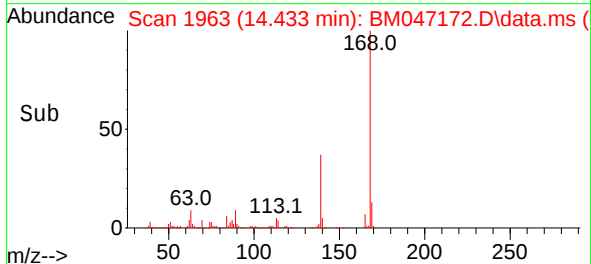
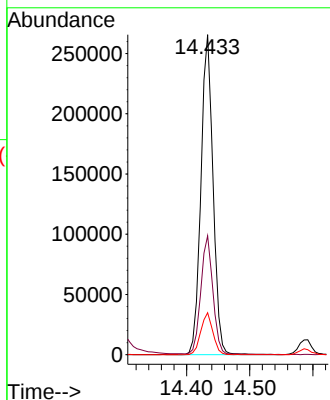
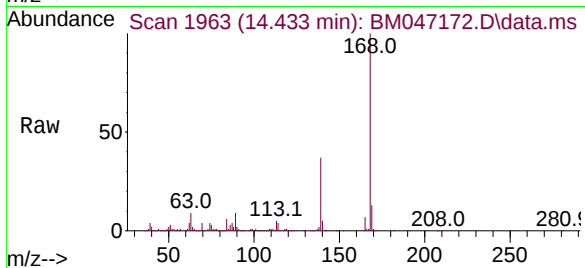
Tgt Ion:168 Resp: 355269

Ion Ratio Lower Upper

168 100

139 37.1 29.6 44.4

169 13.1 10.7 16.1



#56

4-Nitrophenol

Concen: 6.735 ng

RT: 14.292 min Scan# 1939

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

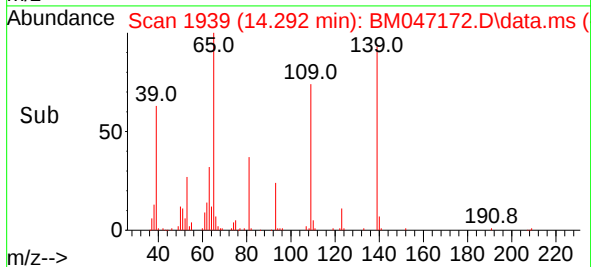
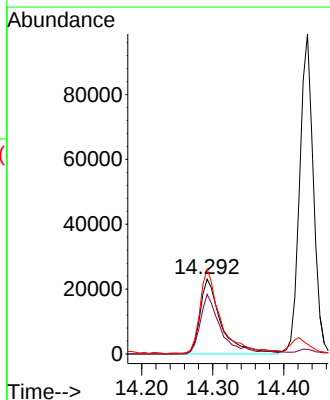
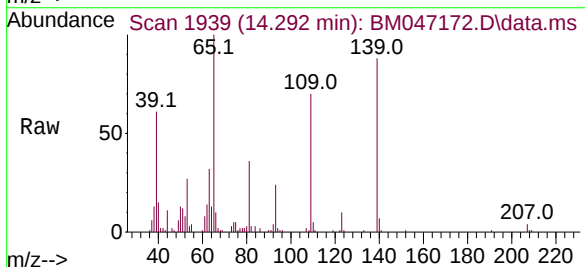
Tgt Ion:139 Resp: 47742

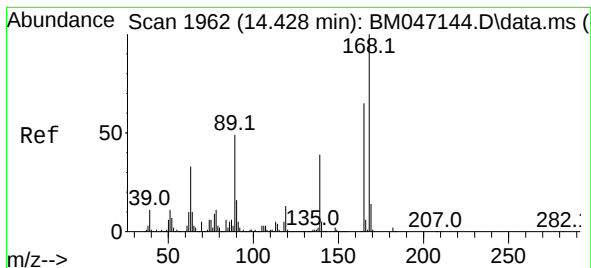
Ion Ratio Lower Upper

139 100

109 79.5 52.5 92.5

65 113.3 75.4 115.4

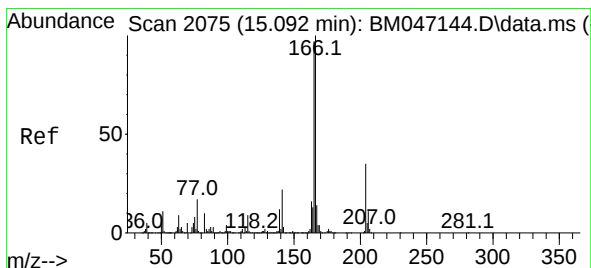
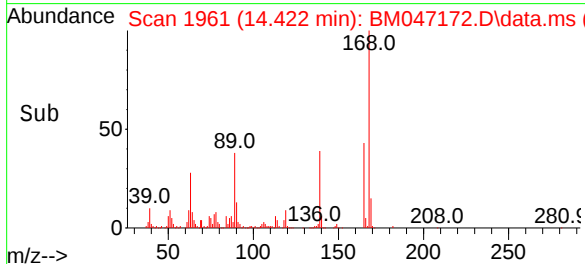
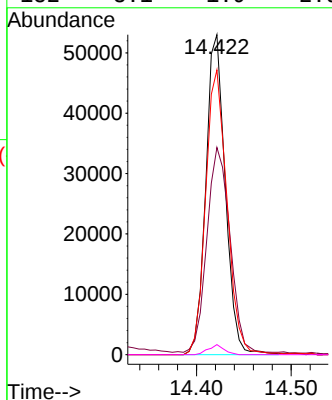
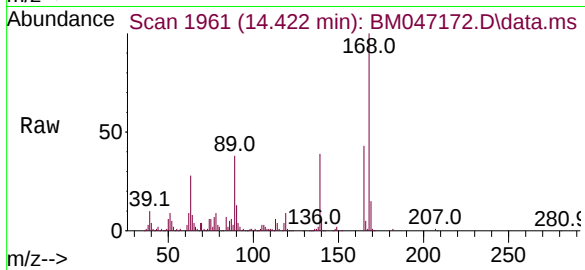




#57
2,4-Dinitrotoluene
Concen: 6.908 ng
RT: 14.422 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

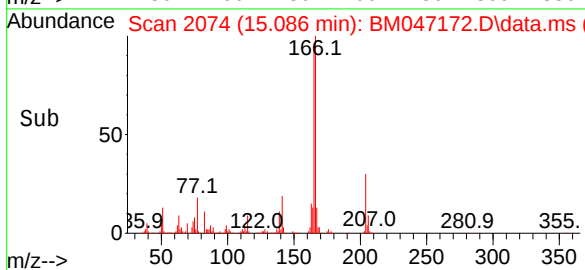
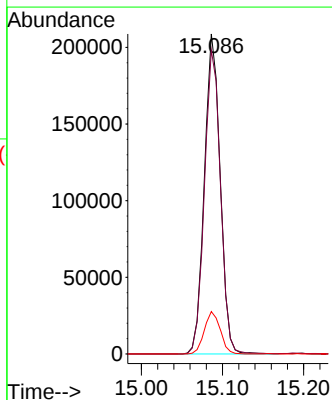
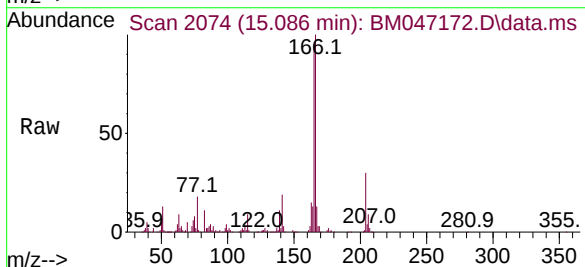
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

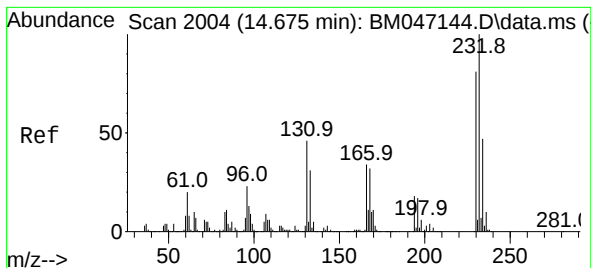
Tgt Ion:165 Resp: 75637
Ion Ratio Lower Upper
165 100
63 64.8 40.3 60.5#
89 89.0 61.0 91.6
182 3.1 1.9 2.9#



#58
Fluorene
Concen: 8.262 ng
RT: 15.086 min Scan# 2074
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:166 Resp: 281509
Ion Ratio Lower Upper
166 100
165 95.0 77.4 116.0
167 13.3 11.0 16.6

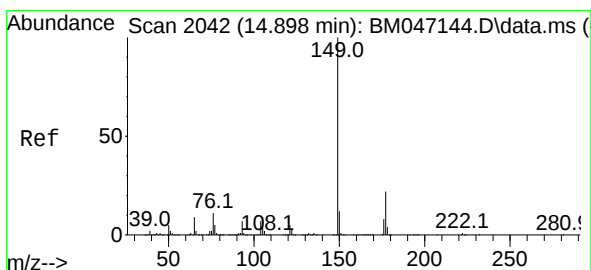
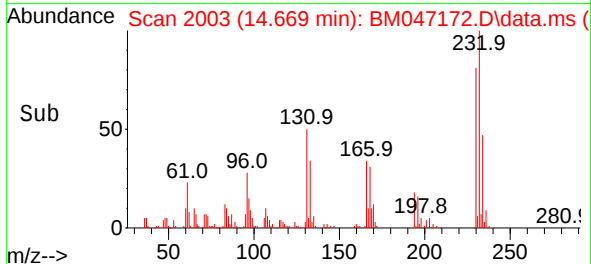
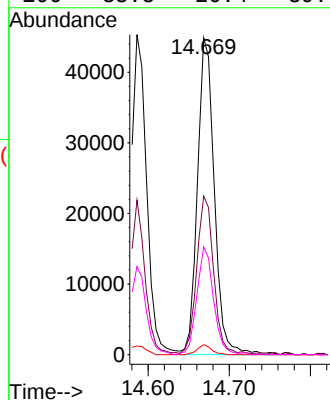
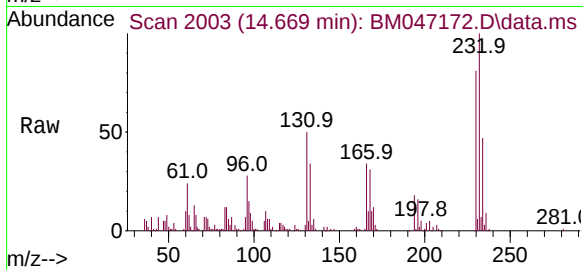




#59
2,3,4,6-Tetrachlorophenol
Concen: 7.316 ng
RT: 14.669 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

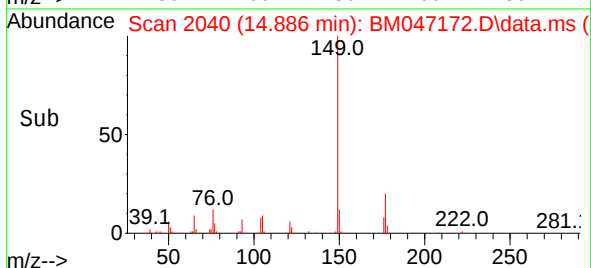
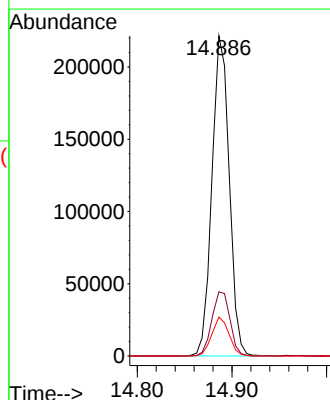
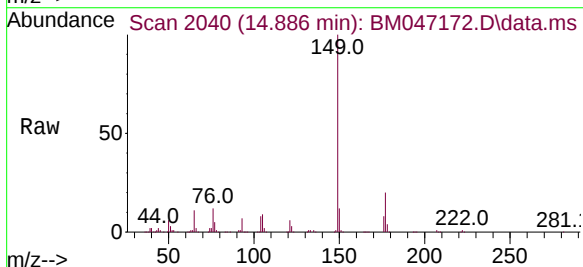
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

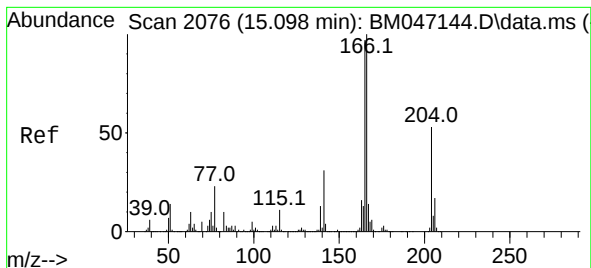
Tgt Ion:232 Resp: 65036
Ion Ratio Lower Upper
232 100
131 50.7 36.9 55.3
130 2.7 2.0 3.0
166 33.8 26.4 39.6



#60
Diethylphthalate
Concen: 7.824 ng
RT: 14.886 min Scan# 2040
Delta R.T. -0.012 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:149 Resp: 280409
Ion Ratio Lower Upper
149 100
177 20.0 17.6 26.4
150 12.2 9.8 14.6

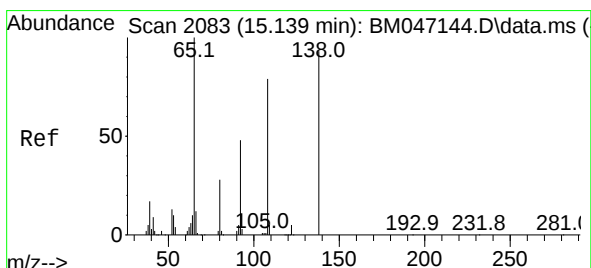
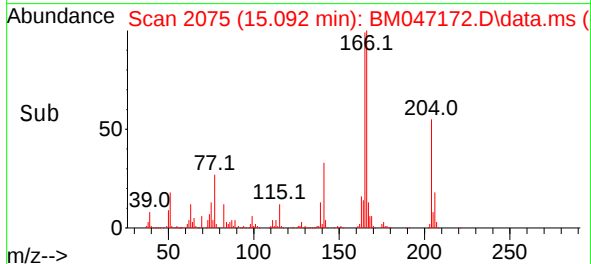
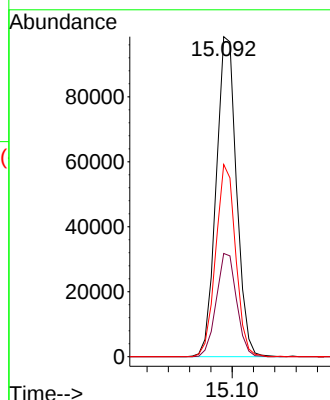
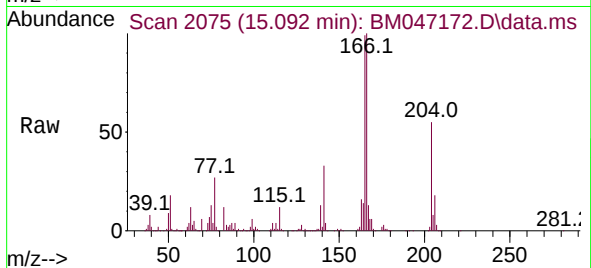




#61
4-Chlorophenyl-phenylether
Concen: 8.041 ng
RT: 15.092 min Scan# 2076
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

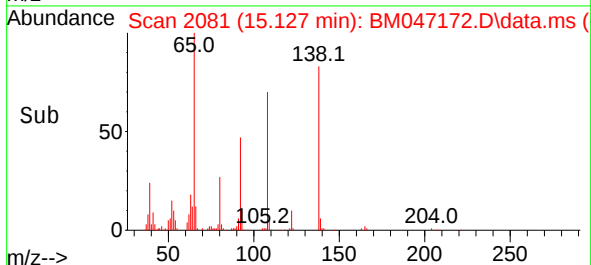
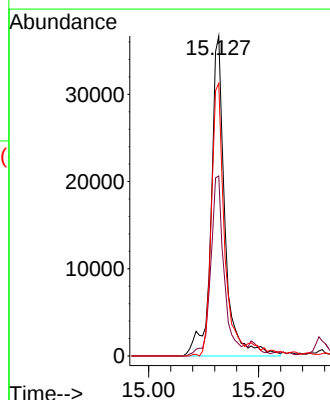
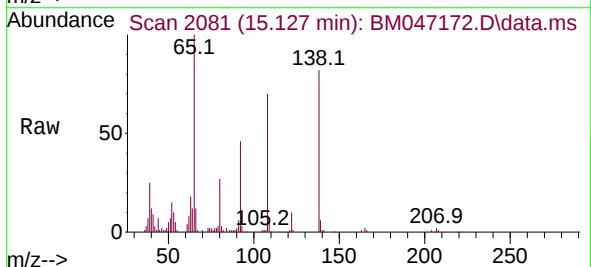
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

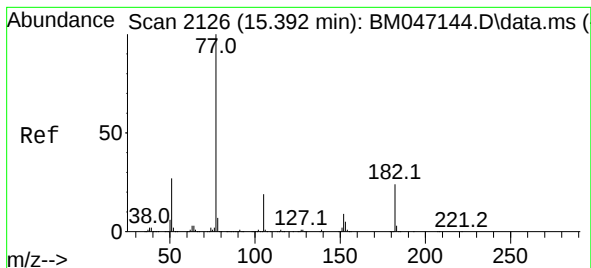
Tgt Ion:204 Resp: 130442
Ion Ratio Lower Upper
204 100
206 32.2 26.2 39.4
141 60.0 47.2 70.8



#62
4-Nitroaniline
Concen: 7.931 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:138 Resp: 64231
Ion Ratio Lower Upper
138 100
92 56.3 31.9 71.9
108 85.2 63.8 103.8





#63

Azobenzene

Concen: 8.528 ng

RT: 15.386 min Scan# 2125

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

Tgt Ion: 77 Resp: 289791

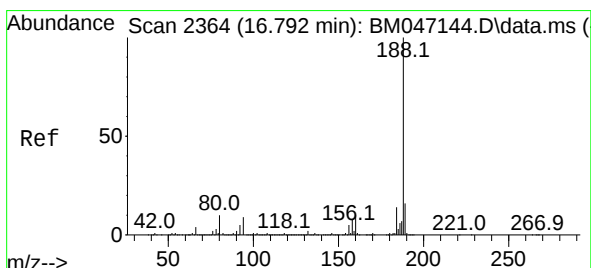
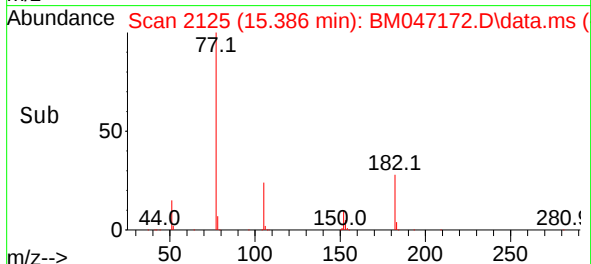
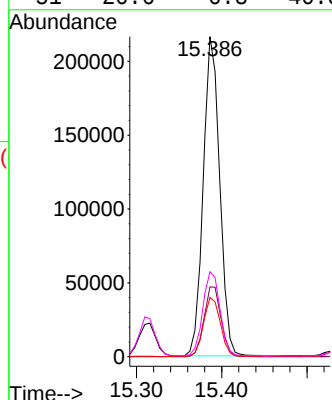
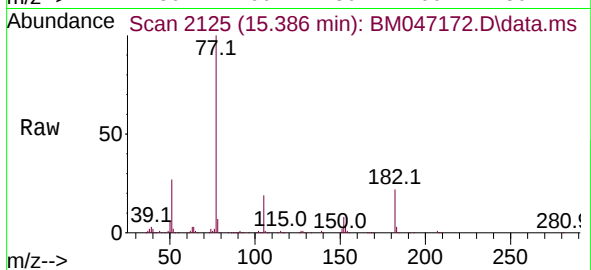
Ion Ratio Lower Upper

77 100

182 21.8 3.8 43.8

105 18.5 0.0 39.5

51 26.6 6.8 46.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.792 min Scan# 2364

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

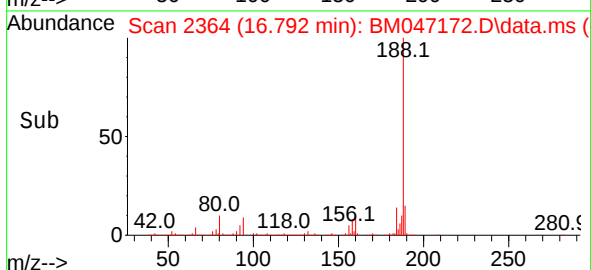
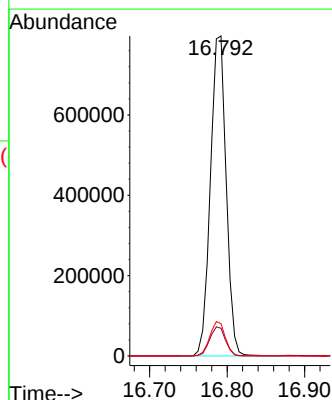
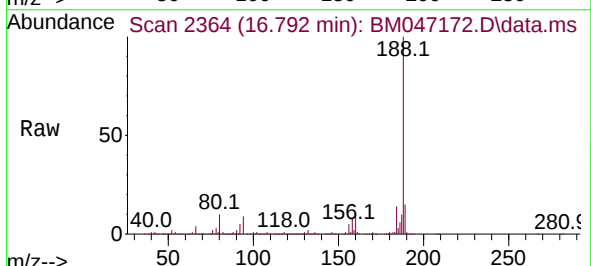
Tgt Ion:188 Resp: 1124226

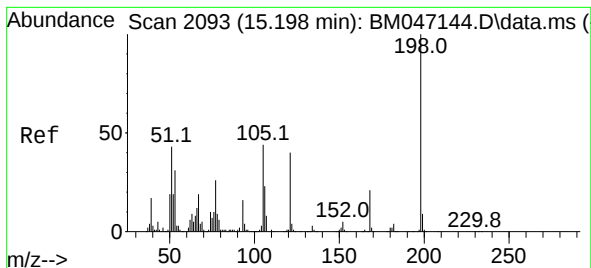
Ion Ratio Lower Upper

188 100

94 8.7 7.0 10.6

80 10.1 8.0 12.0

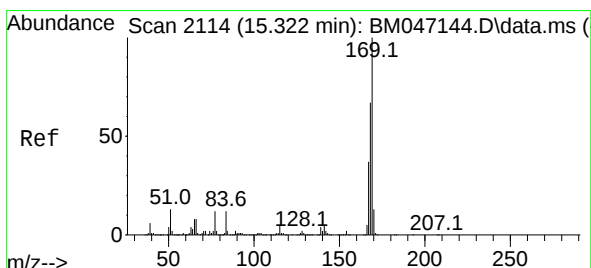
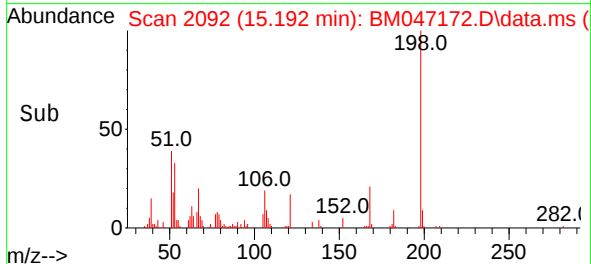
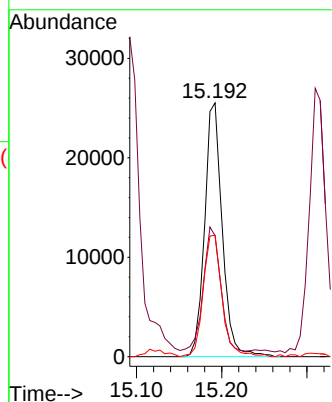
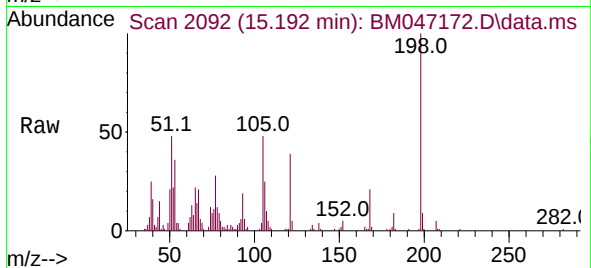




#65
4,6-Dinitro-2-methylphenol
Concen: 5.567 ng
RT: 15.192 min Scan# 2092
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

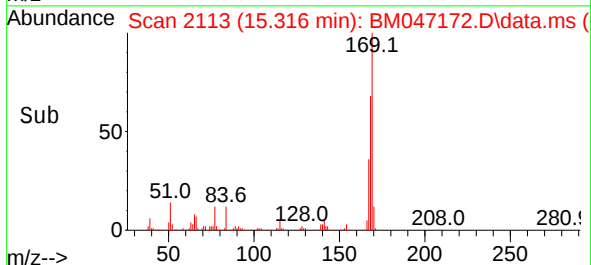
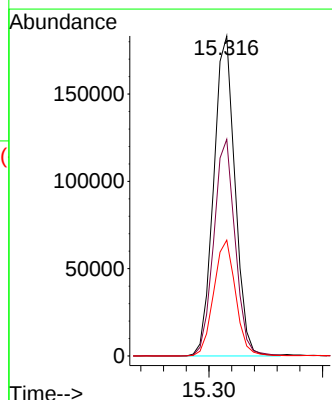
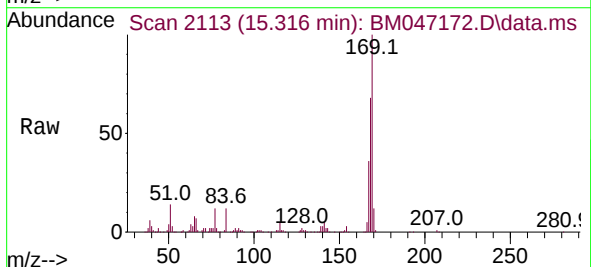
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

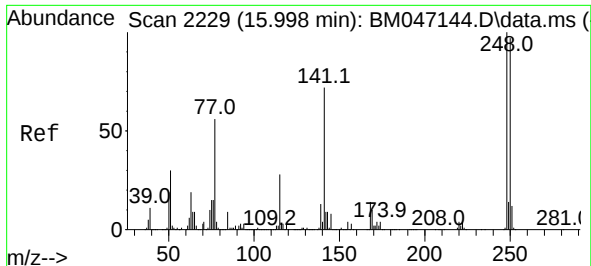
Tgt Ion:198 Resp: 36641
Ion Ratio Lower Upper
198 100
51 47.7 23.9 63.9
105 47.9 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 7.815 ng
RT: 15.316 min Scan# 2113
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:169 Resp: 239313
Ion Ratio Lower Upper
169 100
168 67.7 53.8 80.8
167 36.2 29.3 43.9





#67

4-Bromophenyl-phenylether

Concen: 7.046 ng

RT: 15.992 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

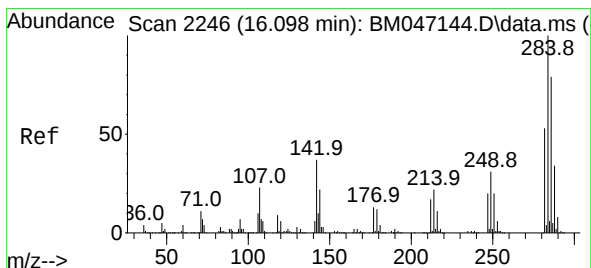
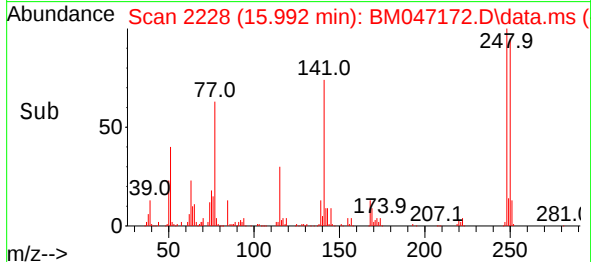
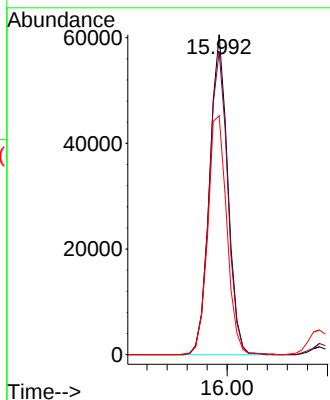
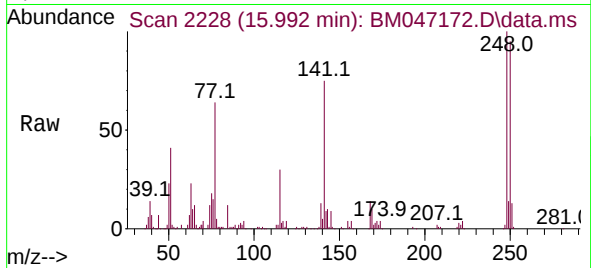
Tgt Ion:248 Resp: 76334

Ion Ratio Lower Upper

248 100

250 94.6 77.8 116.8

141 74.6 57.7 86.5



#68

Hexachlorobenzene

Concen: 7.287 ng

RT: 16.092 min Scan# 2245

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

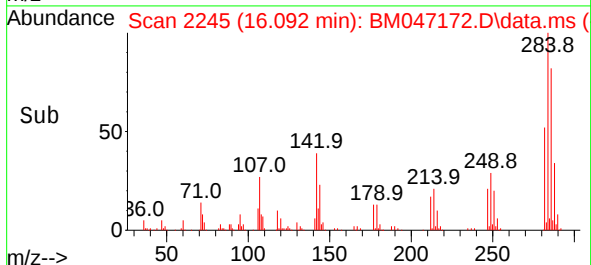
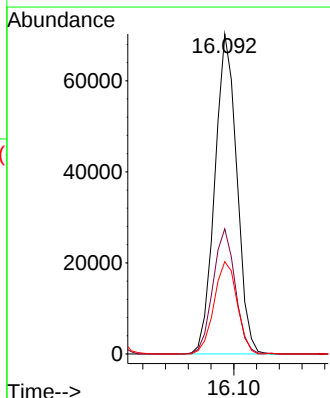
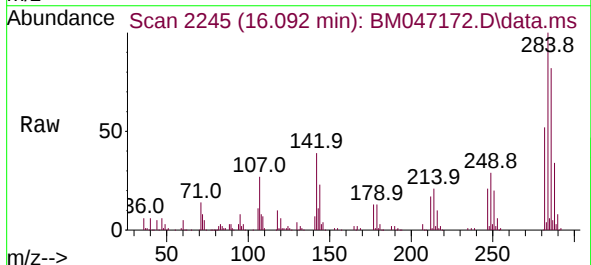
Tgt Ion:284 Resp: 94546

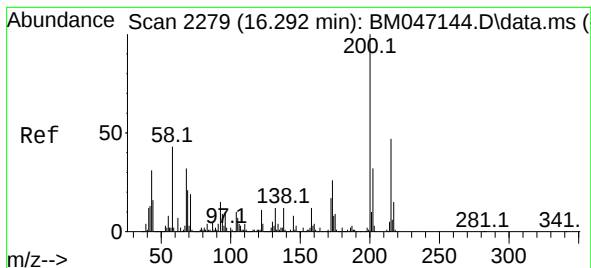
Ion Ratio Lower Upper

284 100

142 39.1 29.4 44.0

249 28.8 25.1 37.7





#69

Atrazine

Concen: 8.763 ng

RT: 16.286 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

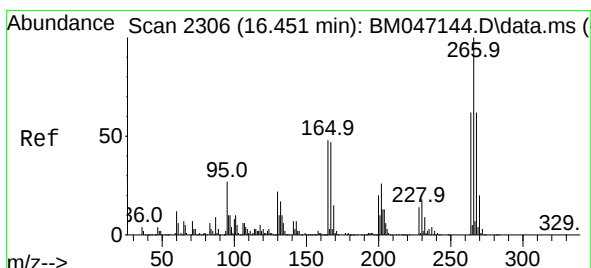
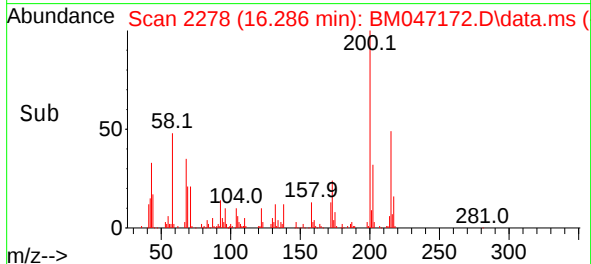
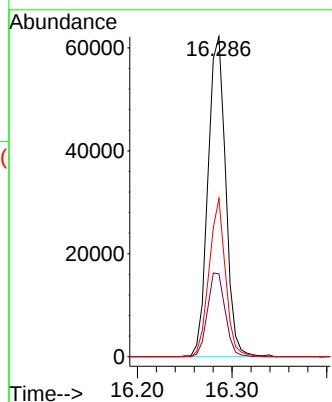
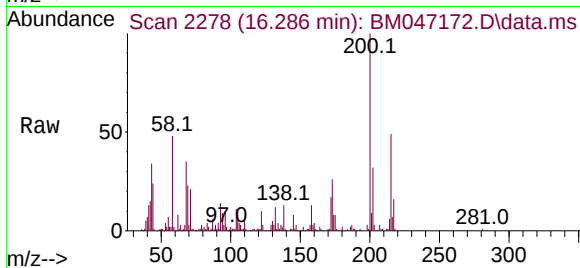
Tgt Ion:200 Resp: 80750

Ion Ratio Lower Upper

200 100

173 25.9 6.1 46.1

215 49.4 26.8 66.8



#70

Pentachlorophenol

Concen: 5.728 ng

RT: 16.451 min Scan# 2306

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

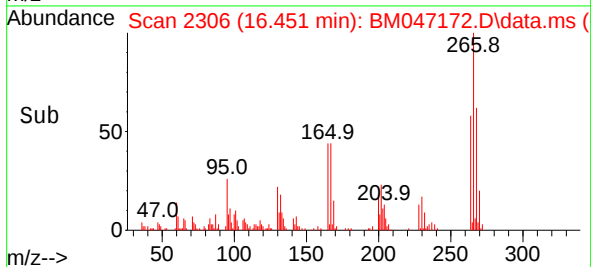
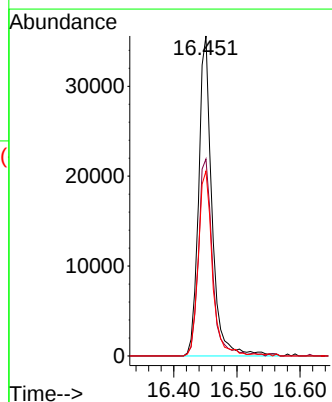
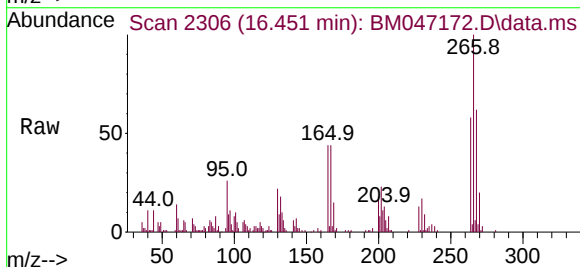
Tgt Ion:266 Resp: 52094

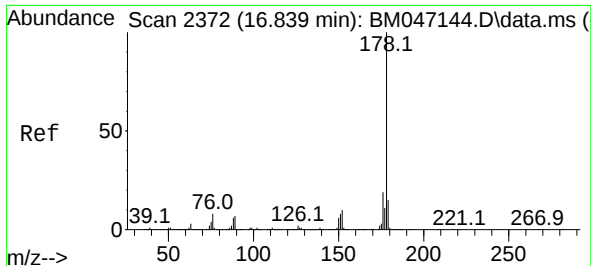
Ion Ratio Lower Upper

266 100

268 61.6 49.8 74.6

264 57.8 49.6 74.4

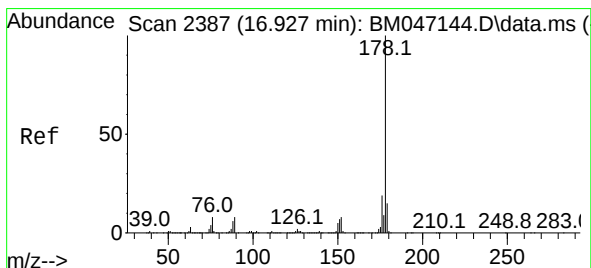
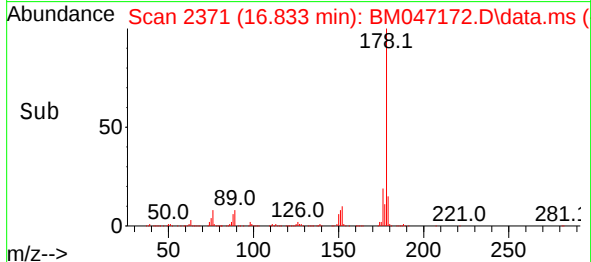
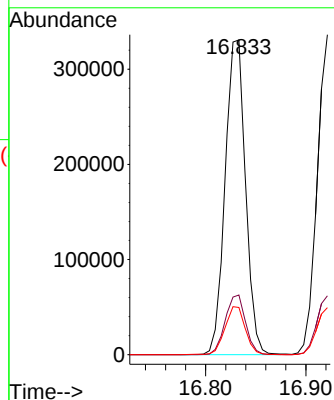
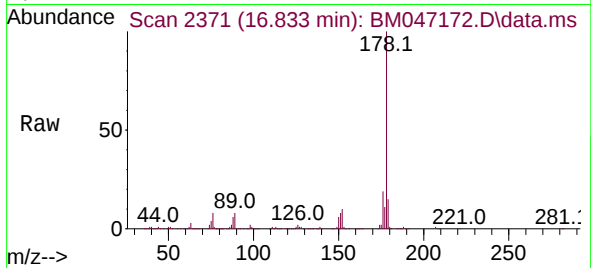




#71
Phenanthrene
Concen: 8.282 ng
RT: 16.833 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

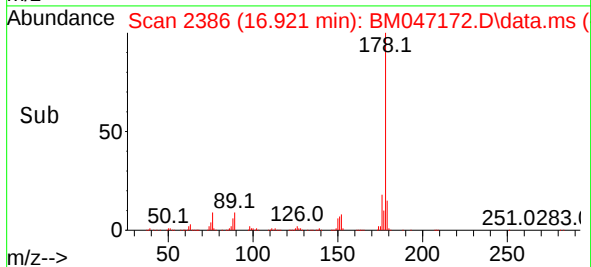
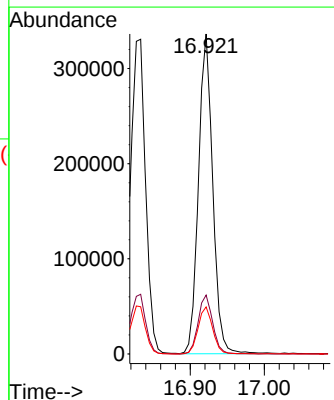
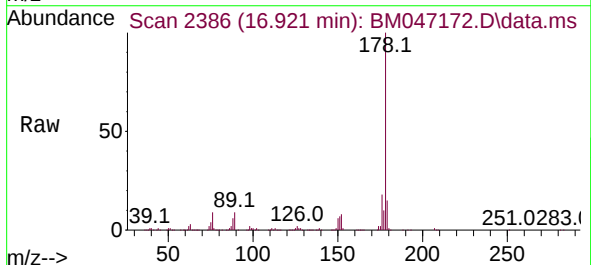
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2024

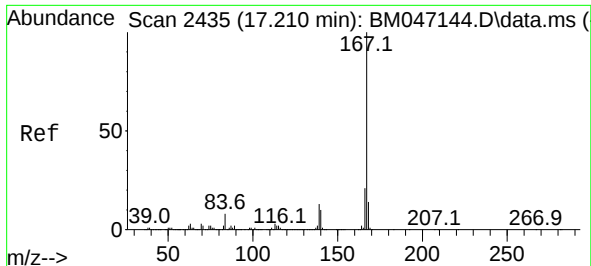
Tgt Ion:178 Resp: 467274
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.0 12.4 18.6



#72
Anthracene
Concen: 8.173 ng
RT: 16.921 min Scan# 2386
Delta R.T. -0.006 min
Lab File: BM047172.D
Acq: 13 Aug 2024 13:04

Tgt Ion:178 Resp: 448682
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 14.7 12.4 18.6

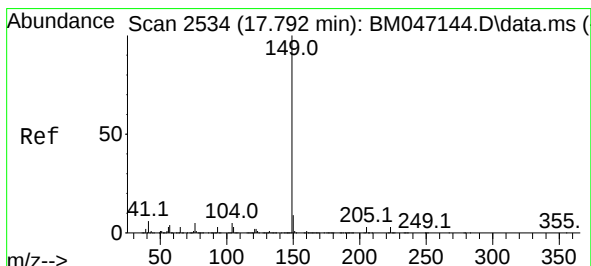
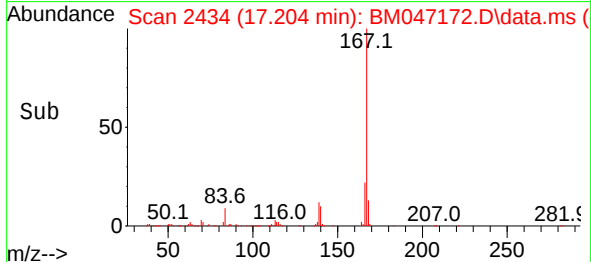
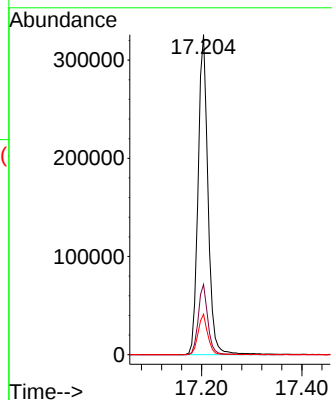
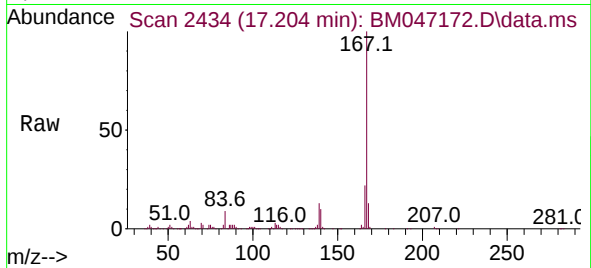




#73
 Carbazole
 Concen: 7.960 ng
 RT: 17.204 min Scan# 2435
 Delta R.T. -0.006 min
 Lab File: BM047172.D
 Acq: 13 Aug 2024 13:04

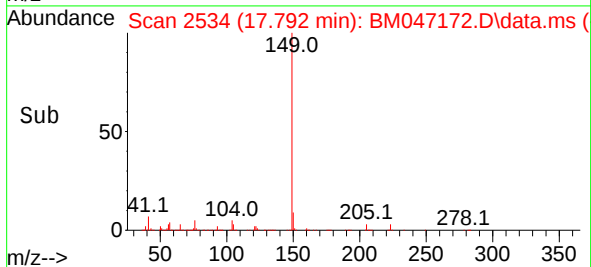
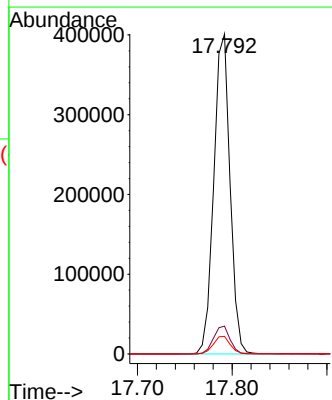
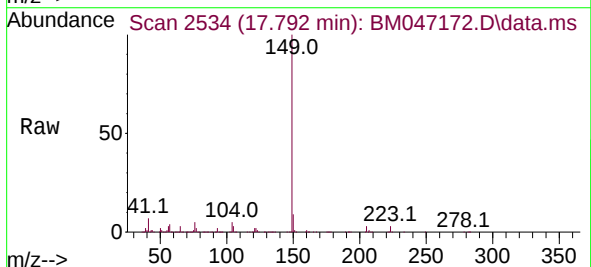
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2024

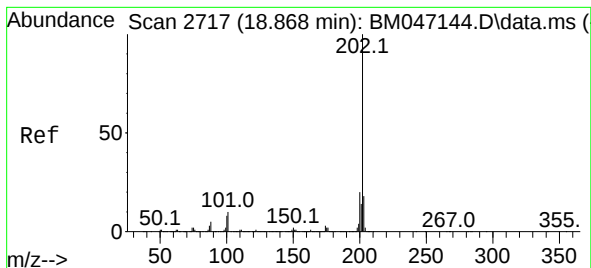
Tgt Ion:167 Resp: 446155
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.1 25.7
 139 12.6 10.0 15.0



#74
 Di-n-butylphthalate
 Concen: 7.312 ng
 RT: 17.792 min Scan# 2534
 Delta R.T. -0.000 min
 Lab File: BM047172.D
 Acq: 13 Aug 2024 13:04

Tgt Ion:149 Resp: 476891
 Ion Ratio Lower Upper
 149 100
 150 8.7 7.5 11.3
 104 5.5 4.1 6.1





#75

Fluoranthene

Concen: 7.607 ng

RT: 18.862 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

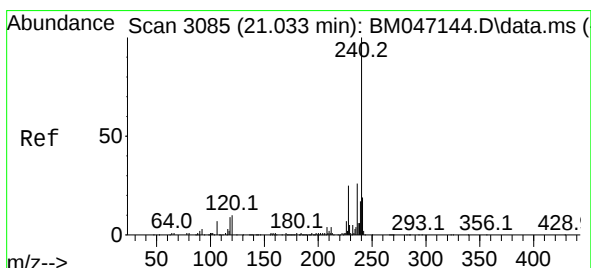
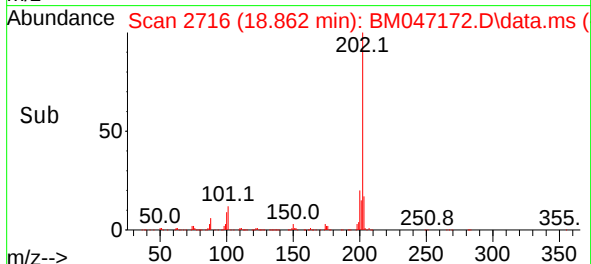
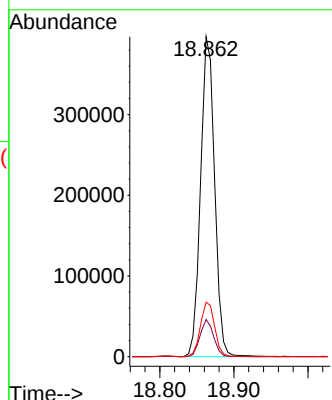
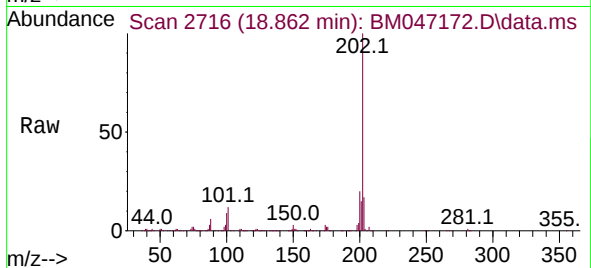
Tgt Ion:202 Resp: 522045

Ion Ratio Lower Upper

202 100

101 11.6 0.0 30.2

203 17.1 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.027 min Scan# 3084

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

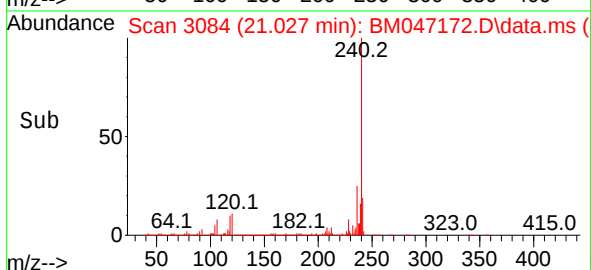
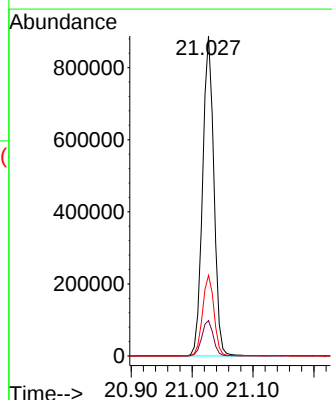
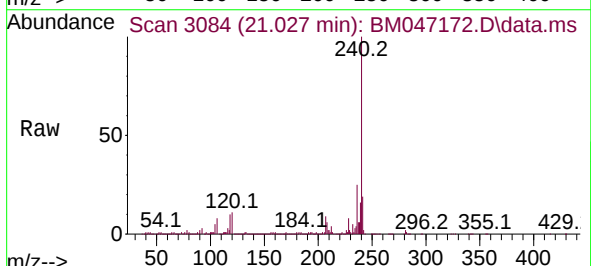
Tgt Ion:240 Resp: 1140950

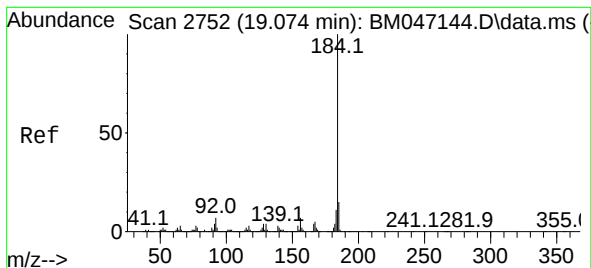
Ion Ratio Lower Upper

240 100

120 11.0 8.2 12.2

236 25.2 20.6 30.8





#77

Benzidine

Concen: 10.334 ng

RT: 19.074 min Scan# 2752

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

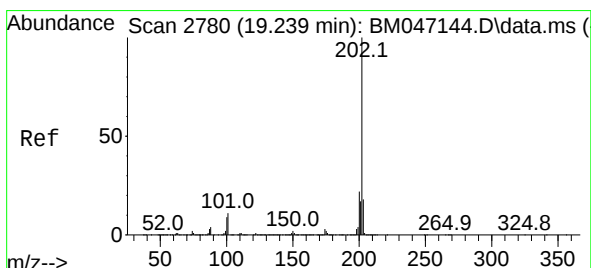
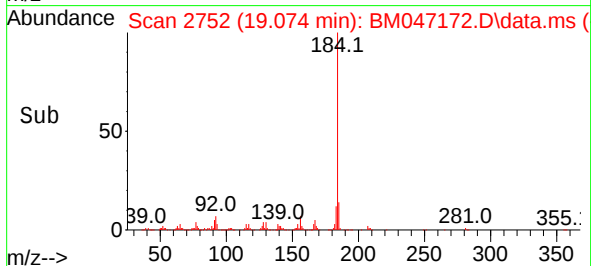
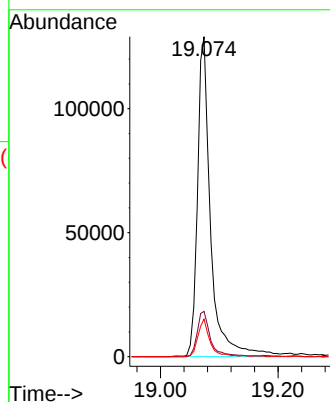
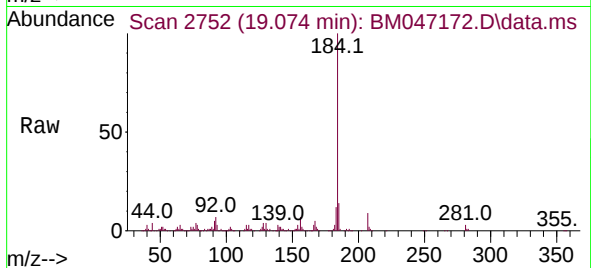
Tgt Ion:184 Resp: 199944

Ion Ratio Lower Upper

184 100

185 14.2 11.8 17.6

183 11.8 9.0 13.6



#78

Pyrene

Concen: 6.820 ng

RT: 19.227 min Scan# 2778

Delta R.T. -0.012 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

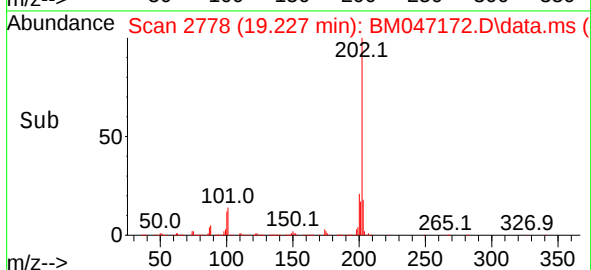
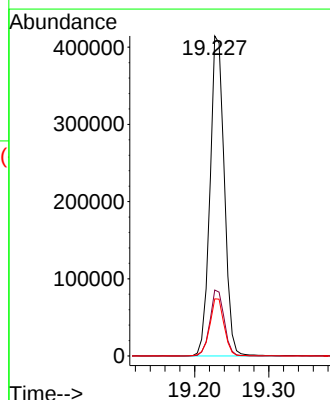
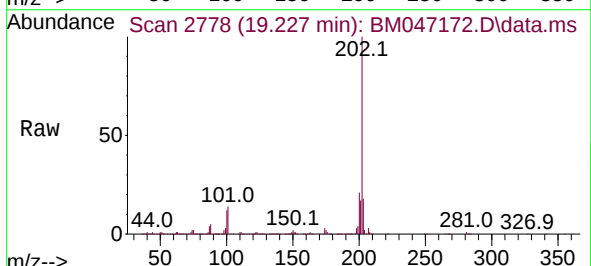
Tgt Ion:202 Resp: 555626

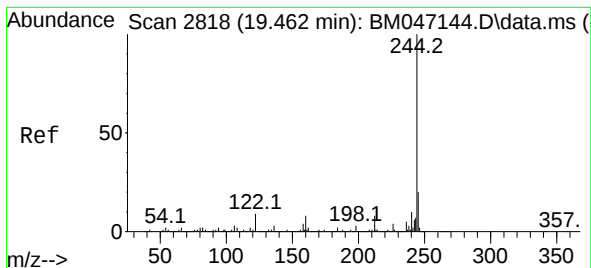
Ion Ratio Lower Upper

202 100

200 20.6 17.2 25.8

203 17.8 14.2 21.2





#79

Terphenyl-d14

Concen: 82.394 ng

RT: 19.456 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

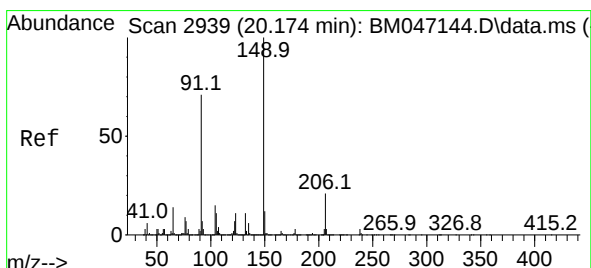
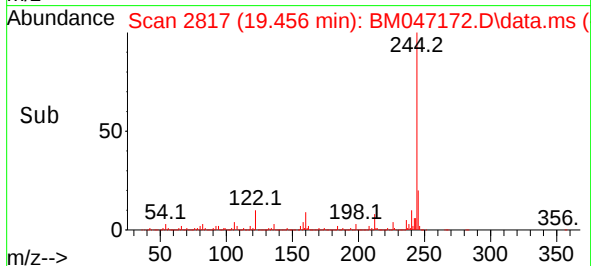
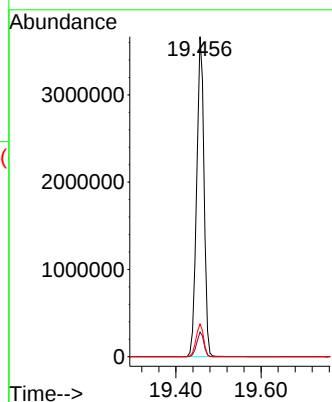
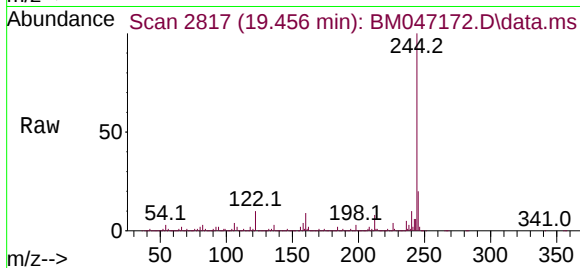
Tgt Ion:244 Resp: 4387213

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.4

122 10.2 7.1 10.7



#80

Butylbenzylphthalate

Concen: 6.457 ng

RT: 20.174 min Scan# 2939

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

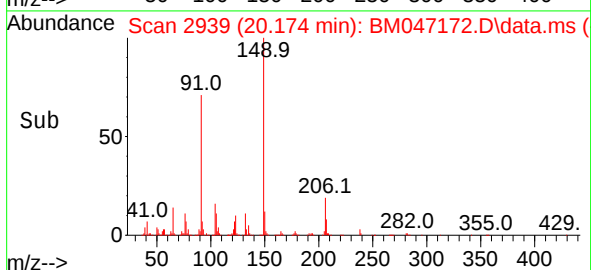
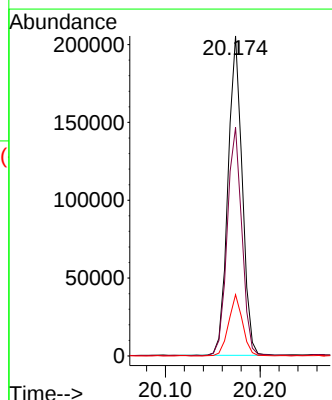
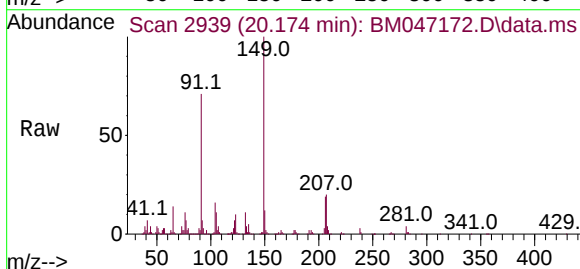
Tgt Ion:149 Resp: 214661

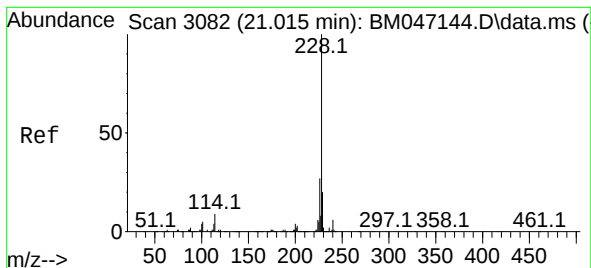
Ion Ratio Lower Upper

149 100

91 71.4 57.0 85.4

206 19.2 16.4 24.6





#81

Benzo(a)anthracene

Concen: 7.766 ng

RT: 21.009 min Scan# 3082

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

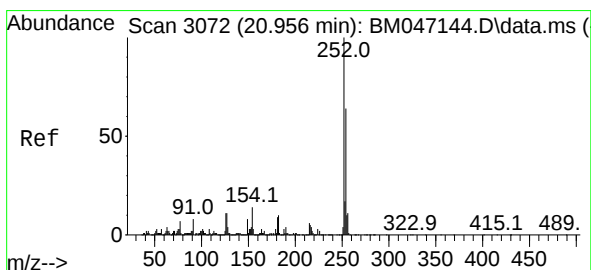
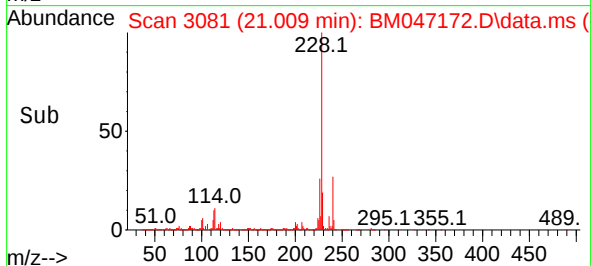
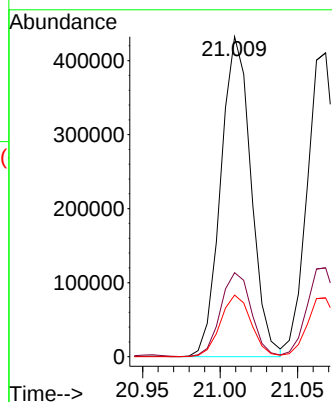
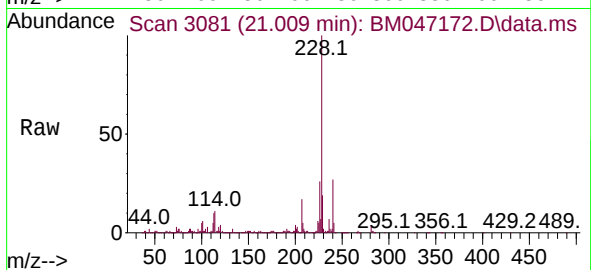
Tgt Ion:228 Resp: 588188

Ion Ratio Lower Upper

228 100

226 26.2 21.8 32.6

229 19.3 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 8.061 ng

RT: 20.951 min Scan# 3071

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

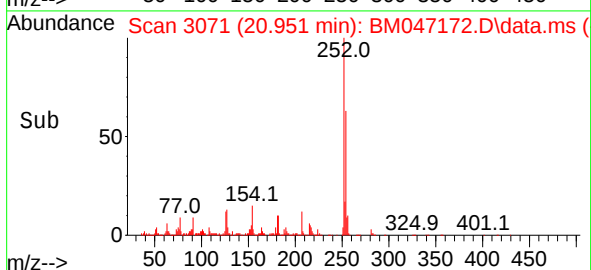
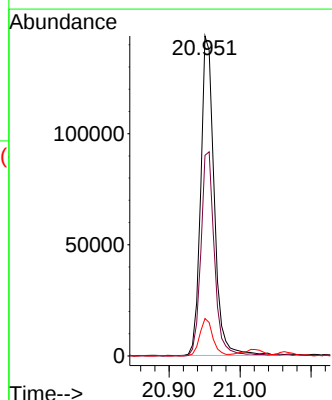
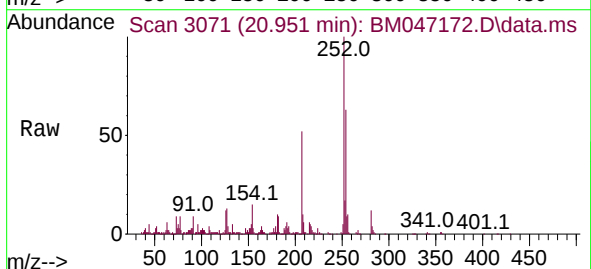
Tgt Ion:252 Resp: 191037

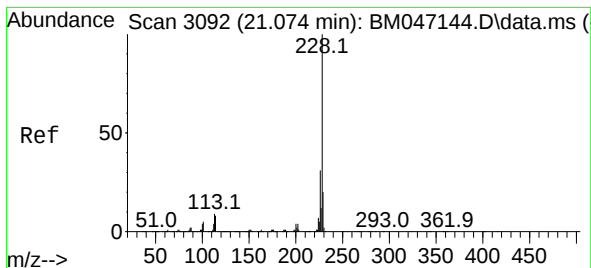
Ion Ratio Lower Upper

252 100

254 62.7 51.0 76.6

126 11.7 8.5 12.7





#83

Chrysene

Concen: 7.816 ng

RT: 21.068 min Scan# 3092

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

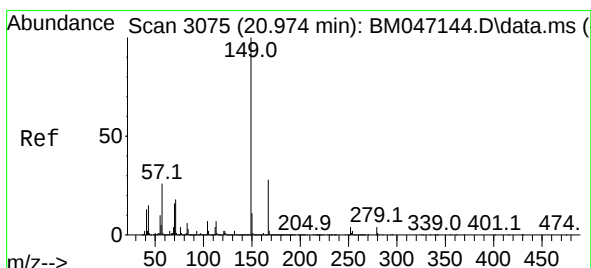
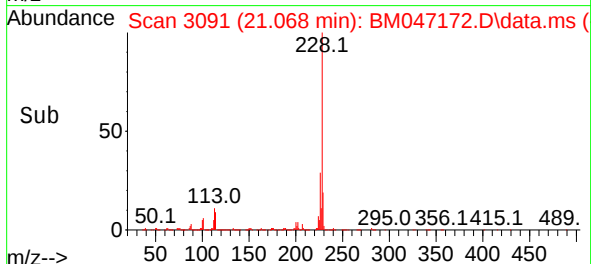
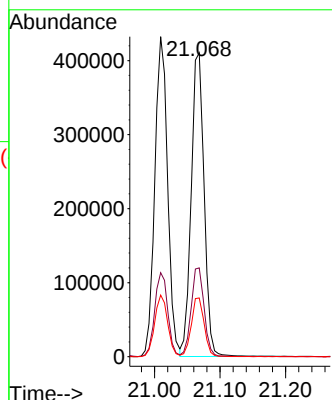
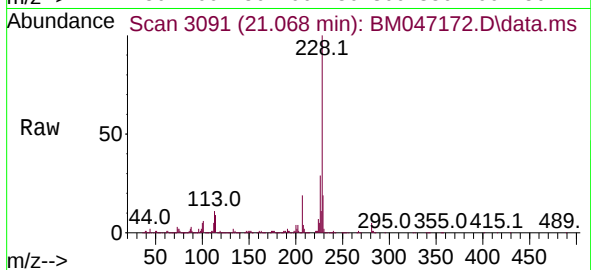
Tgt Ion:228 Resp: 561681

Ion Ratio Lower Upper

228 100

226 29.2 24.4 36.6

229 19.3 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 6.796 ng

RT: 20.974 min Scan# 3075

Delta R.T. -0.000 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

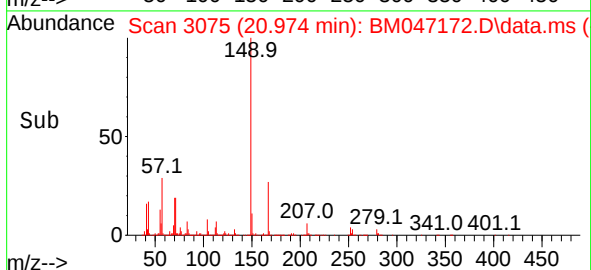
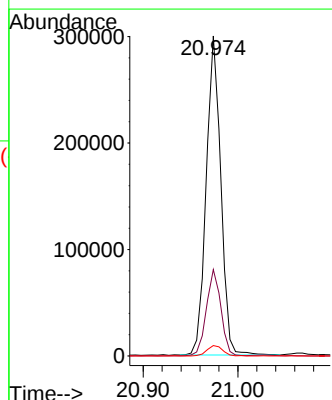
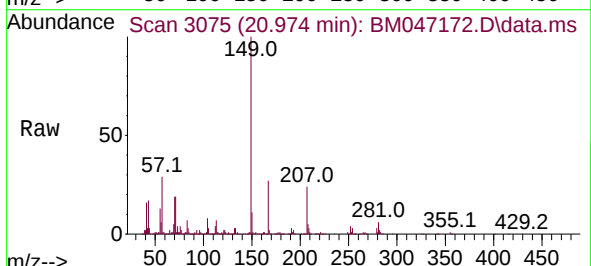
Tgt Ion:149 Resp: 320434

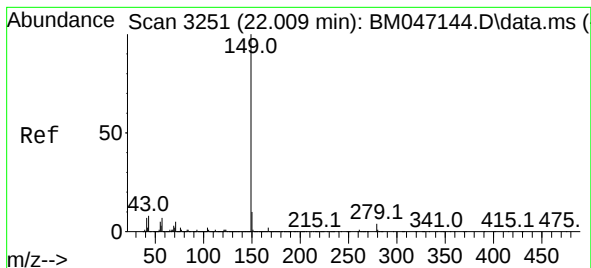
Ion Ratio Lower Upper

149 100

167 27.0 22.2 33.2

279 3.3 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 6.411 ng

RT: 22.003 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

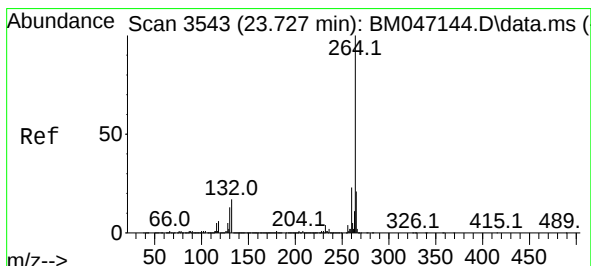
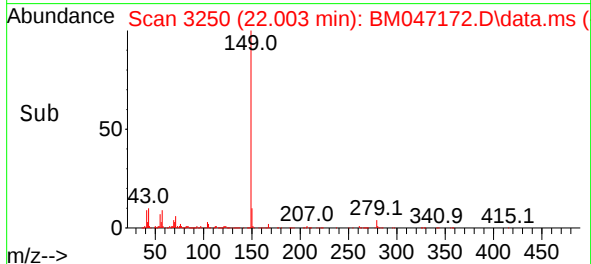
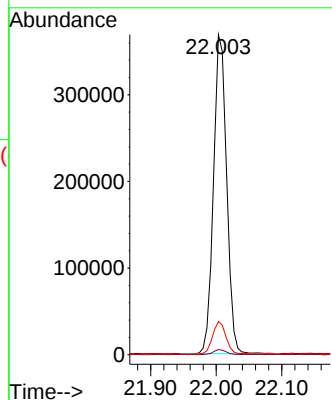
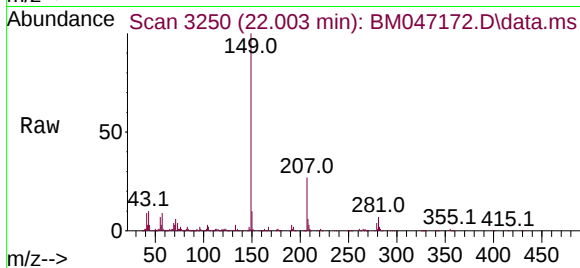
Tgt Ion:149 Resp: 513750

Ion Ratio Lower Upper

149 100

167 1.7 1.3 1.9

43 10.4 6.9 10.3#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.721 min Scan# 3542

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

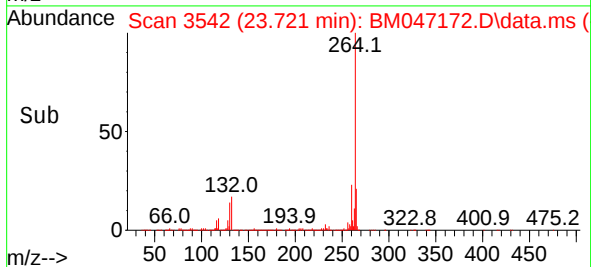
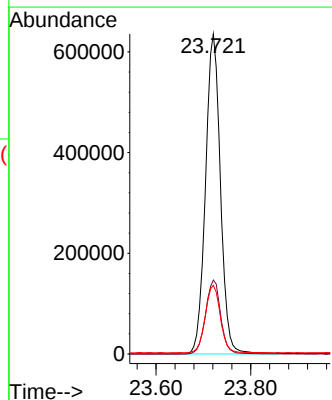
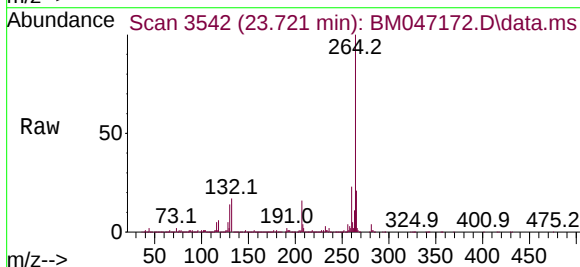
Tgt Ion:264 Resp: 1390446

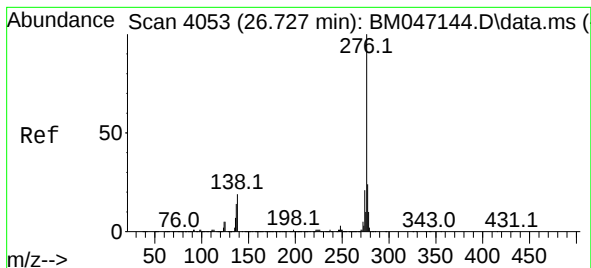
Ion Ratio Lower Upper

264 100

260 23.1 18.5 27.7

265 21.5 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.997 ng

RT: 26.703 min Scan# 4053

Delta R.T. -0.024 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

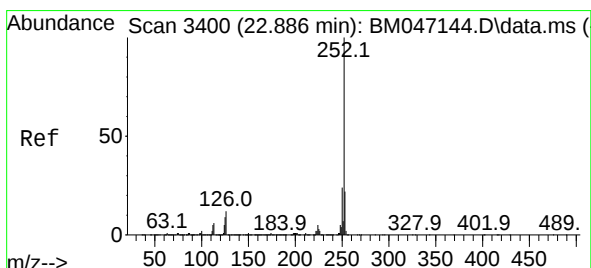
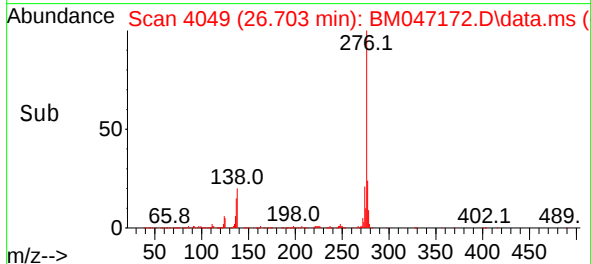
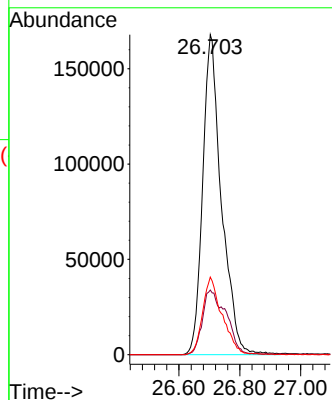
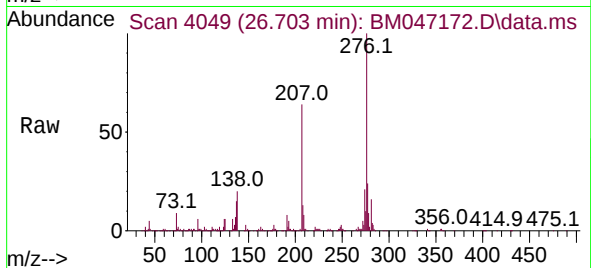
Tgt Ion:276 Resp: 718746

Ion Ratio Lower Upper

276 100

138 25.4 19.4 29.0

277 25.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 7.376 ng

RT: 22.880 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

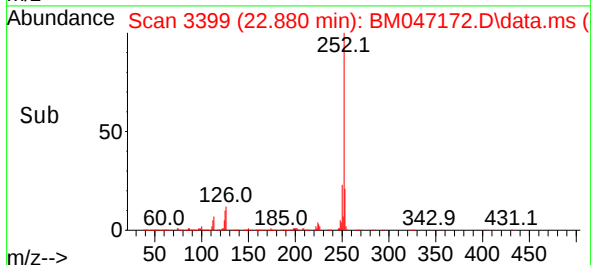
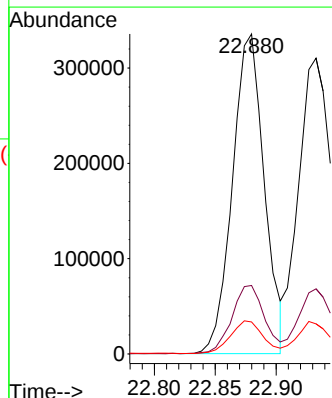
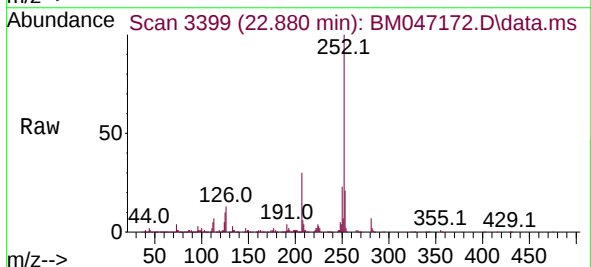
Tgt Ion:252 Resp: 609044

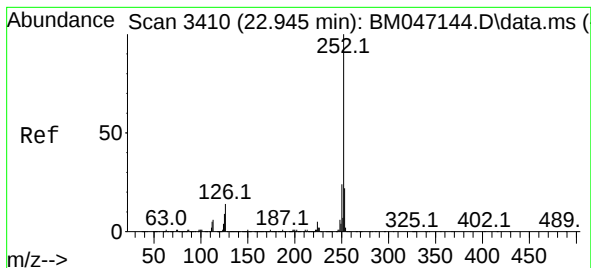
Ion Ratio Lower Upper

252 100

253 21.4 17.8 26.6

125 10.0 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 7.780 ng

RT: 22.933 min Scan# 3410

Delta R.T. -0.012 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

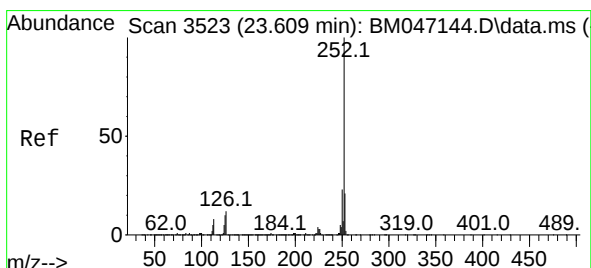
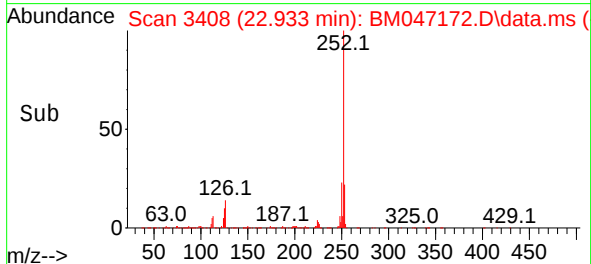
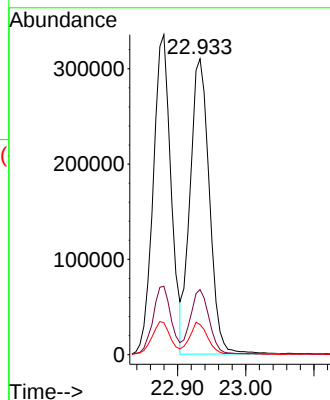
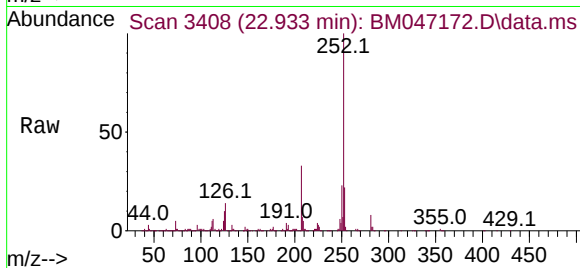
Tgt Ion:252 Resp: 606790

Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

125 10.2 7.4 11.2



#90

Benzo(a)pyrene

Concen: 7.583 ng

RT: 23.592 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

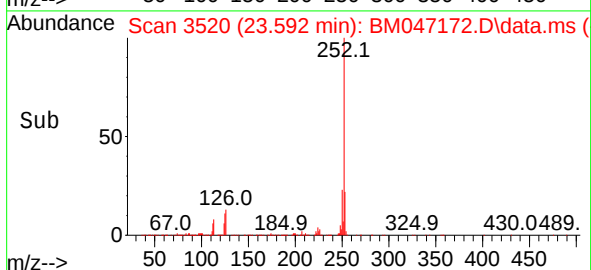
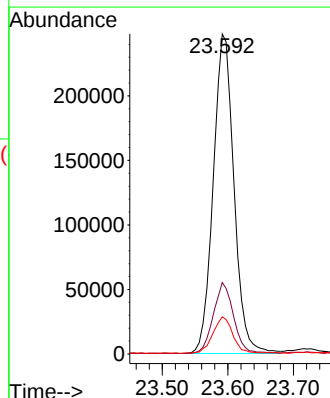
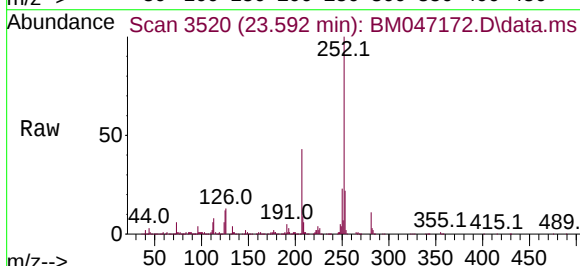
Tgt Ion:252 Resp: 542427

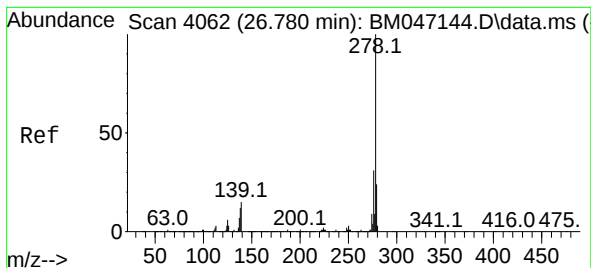
Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

125 11.6 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 8.121 ng

RT: 26.750 min Scan# 4062

Delta R.T. -0.030 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2024

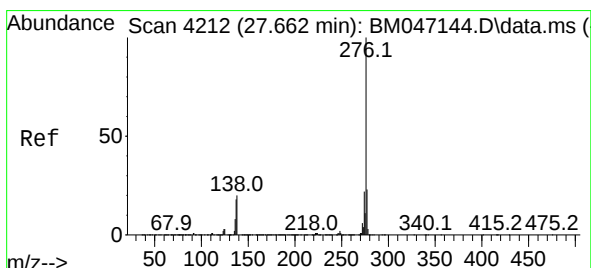
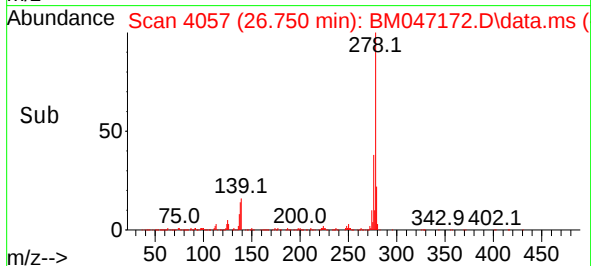
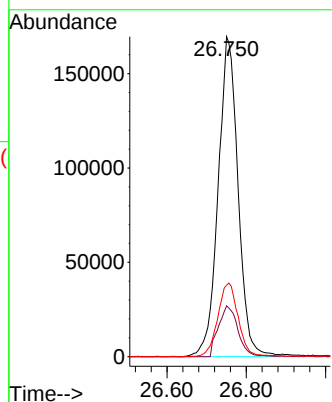
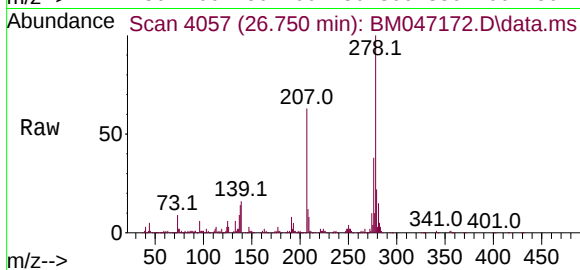
Tgt Ion:278 Resp: 590647

Ion Ratio Lower Upper

278 100

139 15.9 12.0 18.0

279 22.3 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 7.624 ng

RT: 27.632 min Scan# 4207

Delta R.T. -0.030 min

Lab File: BM047172.D

Acq: 13 Aug 2024 13:04

Tgt Ion:276 Resp: 575698

Ion Ratio Lower Upper

276 100

277 22.5 18.8 28.2

138 22.1 16.2 24.4

