

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082324\
 Data File : BM047334.D
 Acq On : 23 Aug 2024 15:28
 Operator : RC/JU
 Sample : P3652-01MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

Quant Time: Aug 23 16:28:52 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	7.351	152	329291	20.000	ng	-0.02
21) Naphthalene-d8	10.104	136	1229856	20.000	ng	-0.03
39) Acenaphthene-d10	14.010	164	795359	20.000	ng	-0.02
64) Phenanthrene-d10	16.780	188	1650914	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	1153613	20.000	ng	-0.01
86) Perylene-d12	23.709	264	1171246	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.016	112	1897247	102.951	ng	0.00
7) Phenol-d6	6.575	99	2486438	97.918	ng	-0.01
23) Nitrobenzene-d5	8.504	82	1657794	67.874	ng	-0.02
42) 2,4,6-Tribromophenol	15.527	330	1056054	114.511	ng	-0.01
45) 2-Fluorobiphenyl	12.622	172	3854602	74.757	ng	-0.02
79) Terphenyl-d14	19.445	244	5328258	98.969	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.022	88	274466	35.945	ng	94
3) Pyridine	3.393	79	726365	32.440	ng	97
4) n-Nitrosodimethylamine	3.316	42	352414	36.025	ng	96
6) Aniline	6.704	93	918337	38.262	ng	98
8) 2-Chlorophenol	6.934	128	925064	46.024	ng	97
9) Benzaldehyde	6.516	77	461599	32.010	ng	98
10) Phenol	6.598	94	1065170	42.039	ng	98
11) bis(2-Chloroethyl)ether	6.804	93	883826	40.732	ng	96
12) 1,3-Dichlorobenzene	7.240	146	1025119	42.919	ng	97
13) 1,4-Dichlorobenzene	7.387	146	1031877	42.670	ng	99
14) 1,2-Dichlorobenzene	7.693	146	1006333	44.104	ng	98
15) Benzyl Alcohol	7.610	79	806872	44.647	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.875	45	1081087	38.827	ng	98
17) 2-Methylphenol	7.816	107	732898	43.356	ng	98
18) Hexachloroethane	8.398	117	390477	41.685	ng	94
19) n-Nitroso-di-n-propyla...	8.163	70	642494	37.563	ng	98
20) 3+4-Methylphenols	8.145	107	997057	42.191	ng	98
22) Acetophenone	8.175	105	1251059	42.142	ng	98
24) Nitrobenzene	8.545	77	989202	40.221	ng	96
25) Isophorone	9.069	82	1831633	43.070	ng	97
26) 2-Nitrophenol	9.240	139	534033	49.030	ng	94
27) 2,4-Dimethylphenol	9.328	122	713586	55.930	ng	98
28) bis(2-Chloroethoxy)met...	9.551	93	1124276	42.015	ng	99
29) 2,4-Dichlorophenol	9.781	162	959626	50.691	ng	98
30) 1,2,4-Trichlorobenzene	9.975	180	985508	46.001	ng	98
31) Naphthalene	10.157	128	2664965	43.498	ng	100
32) Benzoic acid	9.534	122	685776	46.264	ng	94
33) 4-Chloroaniline	10.287	127	802647	34.067	ng	99
34) Hexachlorobutadiene	10.439	225	637314	50.825	ng	99
35) Caprolactam	11.110	113	292692	44.521	ng	92
36) 4-Chloro-3-methylphenol	11.439	107	907239	44.999	ng	100
37) 2-Methylnaphthalene	11.781	142	1941794	44.514	ng	99
38) 1-Methylnaphthalene	12.010	142	1817830	42.165	ng	98
40) 1,2,4,5-Tetrachloroben...	12.163	216	1100717	50.739	ng	98
41) Hexachlorocyclopentadiene	12.139	237	955071	126.079	ng	97
43) 2,4,6-Trichlorophenol	12.428	196	793371	51.453	ng	99

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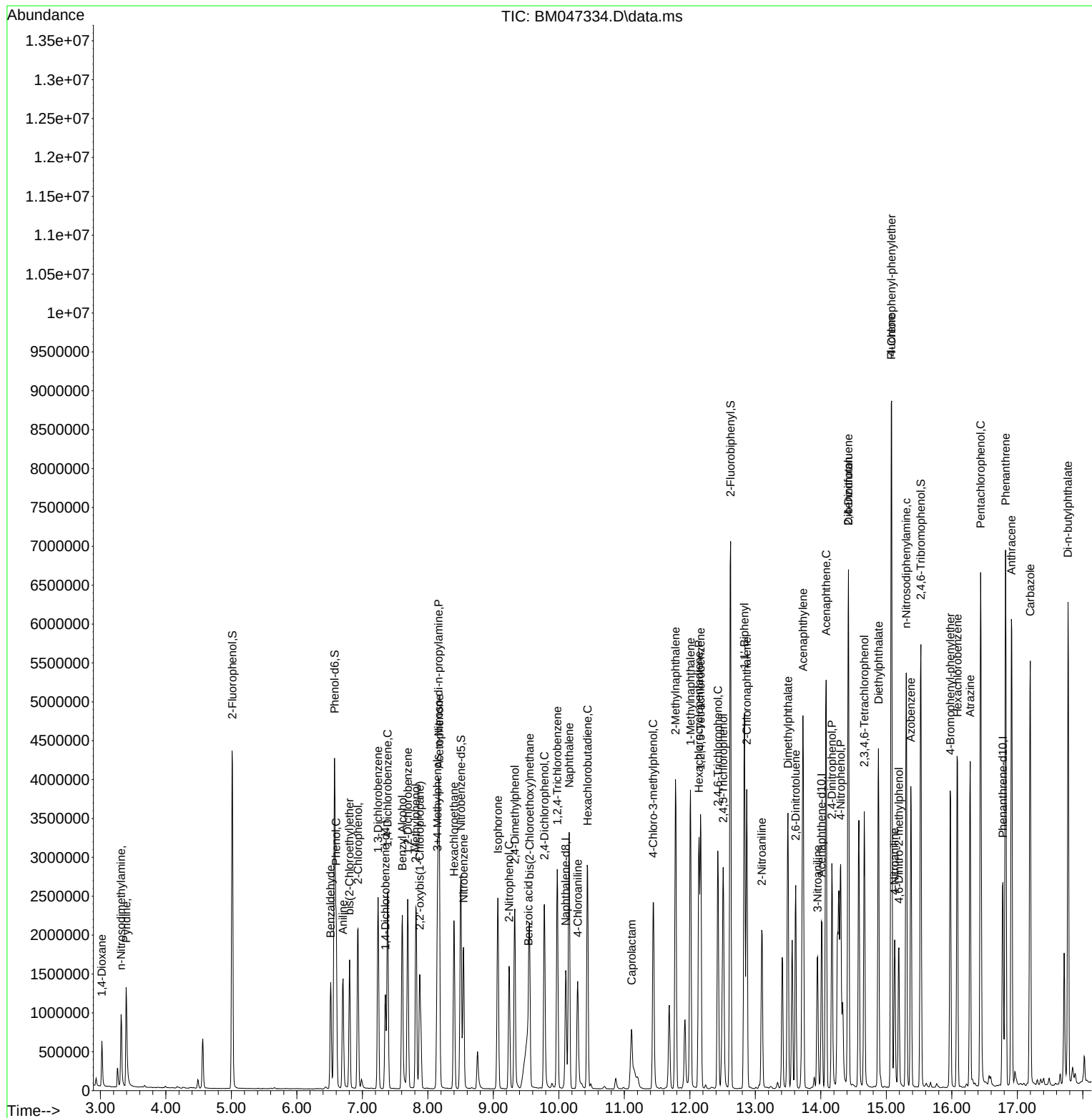
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.510	196	842400	49.205	ng	97
46) 1,1'-Biphenyl	12.833	154	2518524	44.479	ng	99
47) 2-Chloronaphthalene	12.869	162	1943555	43.916	ng	98
48) 2-Nitroaniline	13.098	65	591148	42.637	ng	96
49) Acenaphthylene	13.727	152	3120558	47.835	ng	99
50) Dimethylphthalate	13.498	163	2539667	45.720	ng	100
51) 2,6-Dinitrotoluene	13.616	165	577358	44.463	ng	88
52) Acenaphthene	14.080	154	1881850	45.476	ng	99
53) 3-Nitroaniline	13.951	138	475067	36.511	ng	98
54) 2,4-Dinitrophenol	14.169	184	695683	89.389	ng	92
55) Dibenzofuran	14.422	168	2942034	45.011	ng	98
56) 4-Nitrophenol	14.304	139	924344	82.383	ng	96
57) 2,4-Dinitrotoluene	14.422	165	752187	43.398	ng	97
58) Fluorene	15.074	166	2390639	44.327	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.663	232	721054	51.247	ng	93
60) Diethylphthalate	14.880	149	2477805	43.681	ng	98
61) 4-Chlorophenyl-phenyle...	15.080	204	1213097	47.247	ng	94
62) 4-Nitroaniline	15.127	138	524365	40.906	ng	95
63) Azobenzene	15.374	77	2191565	40.747	ng	95
65) 4,6-Dinitro-2-methylph...	15.192	198	447740	46.322	ng	87
66) n-Nitrosodiphenylamine	15.304	169	2117549	47.091	ng	99
67) 4-Bromophenyl-phenylether	15.980	248	790211	49.672	ng	94
68) Hexachlorobenzene	16.086	284	911471	47.839	ng	94
69) Atrazine	16.280	200	803737	59.398	ng	99
70) Pentachlorophenol	16.439	266	1220059	91.351	ng	98
71) Phenanthrene	16.821	178	4137731	49.941	ng	100
72) Anthracene	16.910	178	3909445	48.494	ng	100
73) Carbazole	17.198	167	3582569	43.524	ng	99
74) Di-n-butylphthalate	17.774	149	4463355	46.602	ng	99
75) Fluoranthene	18.857	202	5118445	50.790	ng	99
77) Benzidine	19.062	184	1563528	79.921	ng	99
78) Pyrene	19.221	202	5234439	63.547	ng	99
80) Butylbenzylphthalate	20.162	149	1880565	55.943	ng	93
81) Benzo(a)anthracene	21.003	228	3969599	51.834	ng	99
82) 3,3'-Dichlorobenzidine	20.945	252	1265436	52.811	ng	99
83) Chrysene	21.062	228	3655867	50.315	ng	100
84) Bis(2-ethylhexyl)phtha...	20.962	149	2587409	54.274	ng	# 97
85) Di-n-octyl phthalate	21.986	149	4279233	52.811	ng	97
87) Indeno(1,2,3-cd)pyrene	26.709	276	3876403	51.203	ng	97
88) Benzo(b)fluoranthene	22.874	252	3587949	51.584	ng	99
89) Benzo(k)fluoranthene	22.933	252	3190038	48.556	ng	98
90) Benzo(a)pyrene	23.592	252	3224776	53.520	ng	98
91) Dibenzo(a,h)anthracene	26.756	278	2935009	47.905	ng	99
92) Benzo(g,h,i)perylene	27.638	276	3079259	48.408	ng	99

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

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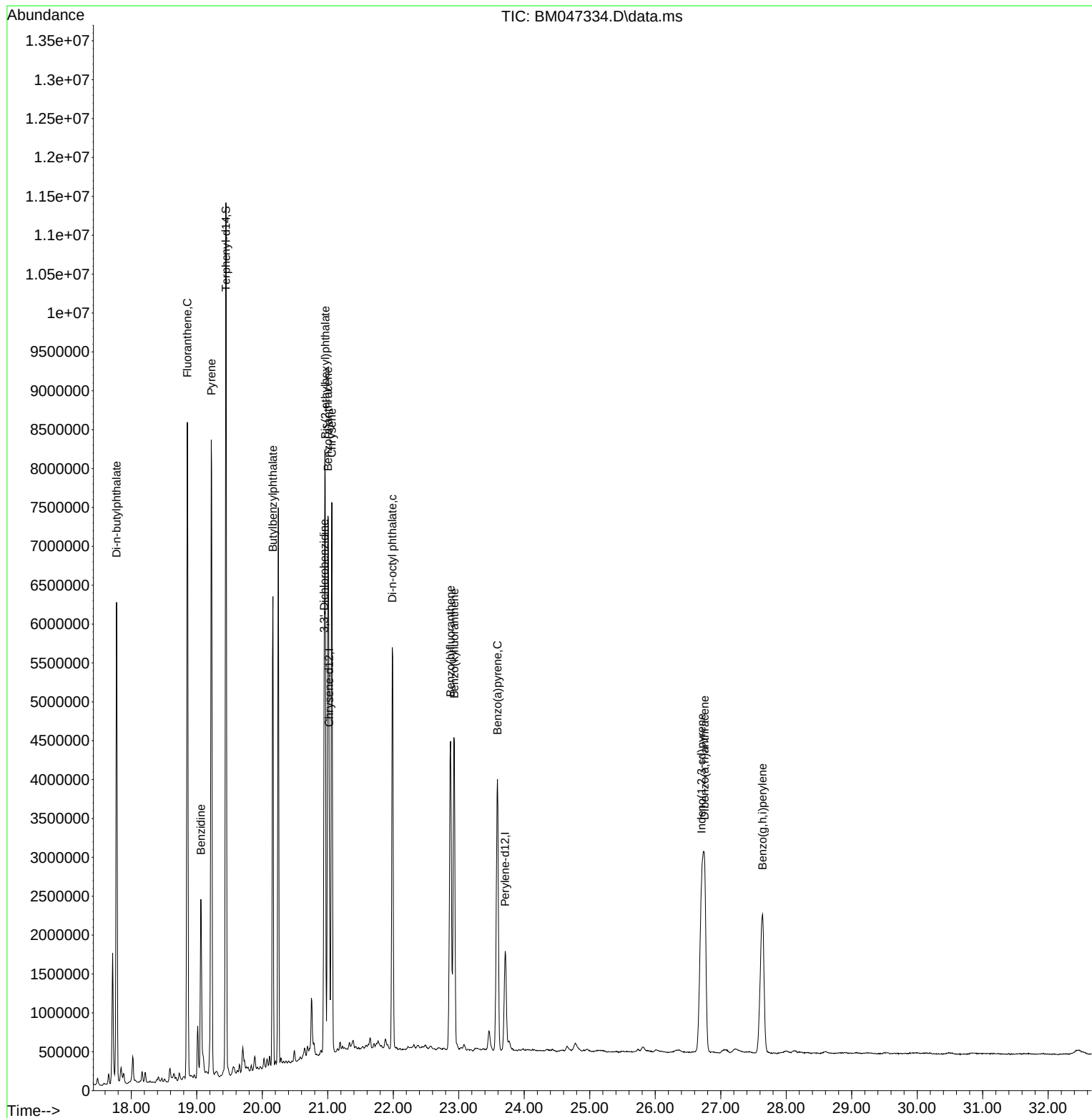
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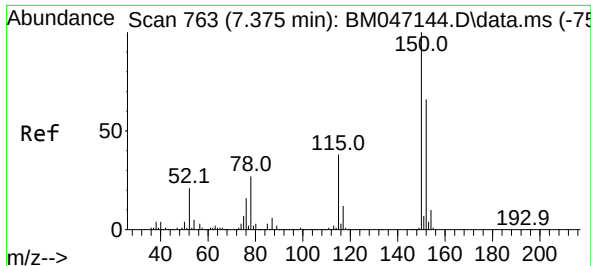


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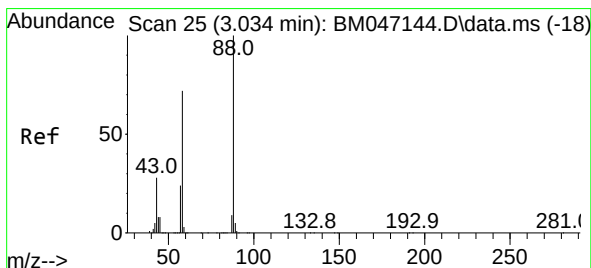
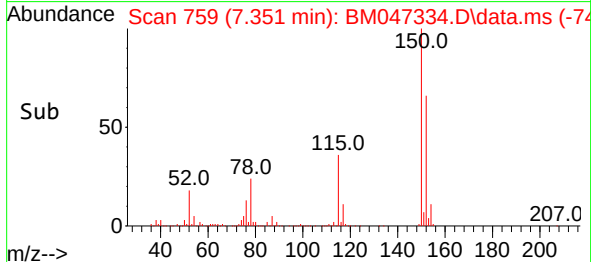
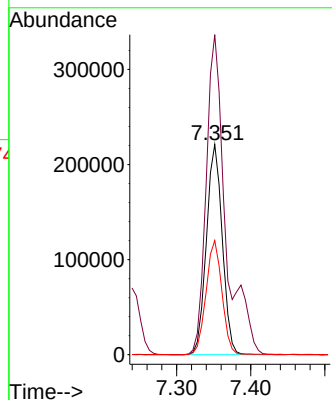
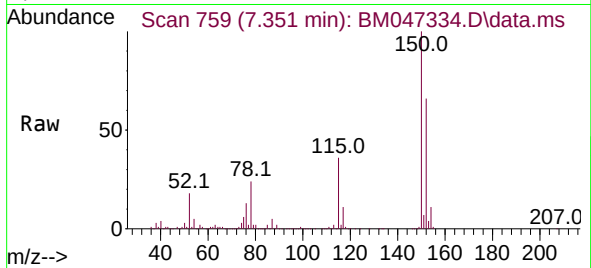




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.351 min Scan# 71
 Delta R.T. -0.024 min
 Lab File: BM047334.D
 Acq: 23 Aug 2024 15:28

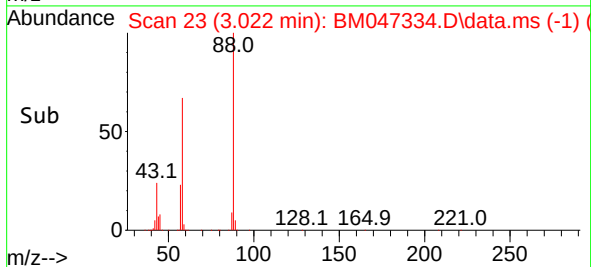
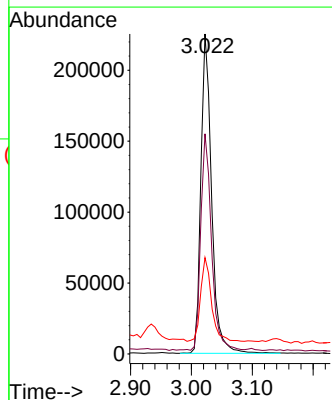
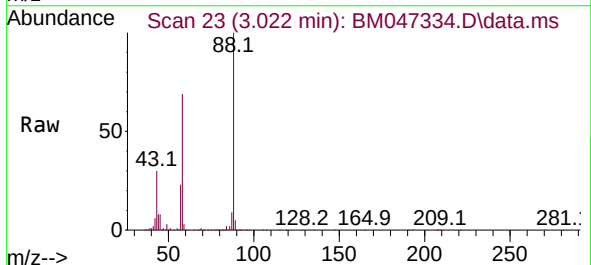
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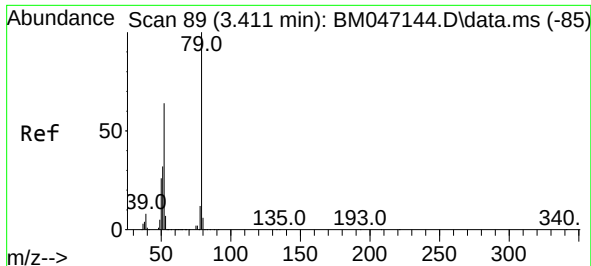
Tgt Ion:152 Resp: 329291
 Ion Ratio Lower Upper
 152 100
 150 152.2 120.5 180.7
 115 54.3 45.5 68.3



#2
 1,4-Dioxane
 Concen: 35.945 ng
 RT: 3.022 min Scan# 23
 Delta R.T. -0.012 min
 Lab File: BM047334.D
 Acq: 23 Aug 2024 15:28

Tgt Ion: 88 Resp: 274466
 Ion Ratio Lower Upper
 88 100
 58 67.1 58.2 87.4
 43 26.8 22.5 33.7



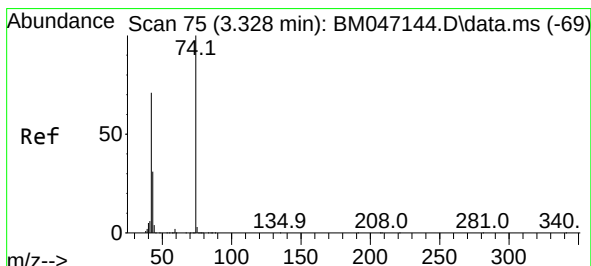
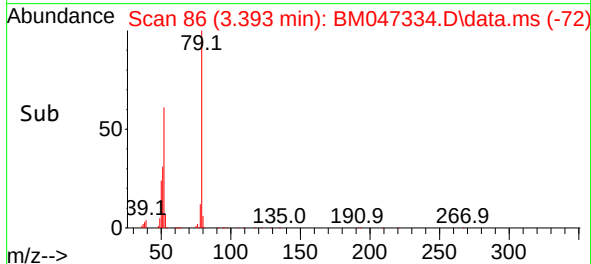
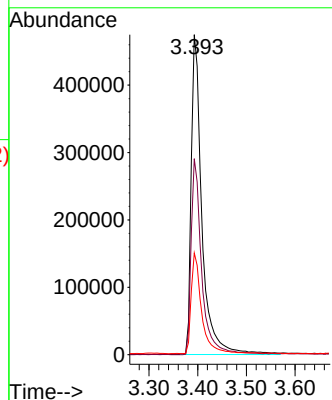
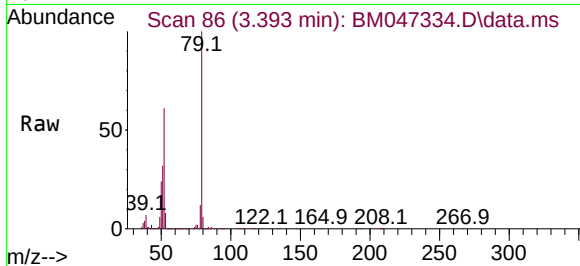


#3
 Pyridine
 Concen: 32.440 ng
 RT: 3.393 min Scan# 80
 Delta R.T. -0.018 min
 Lab File: BM047334.D
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Tgt Ion: 79 Resp: 726365

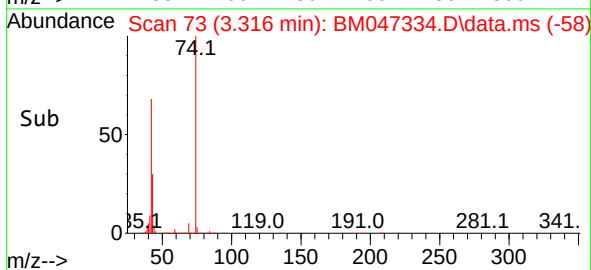
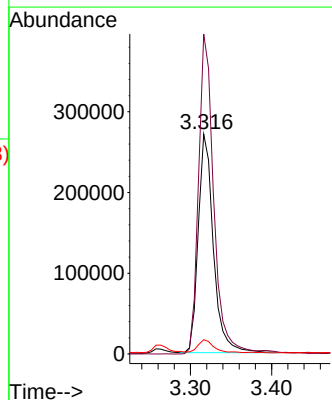
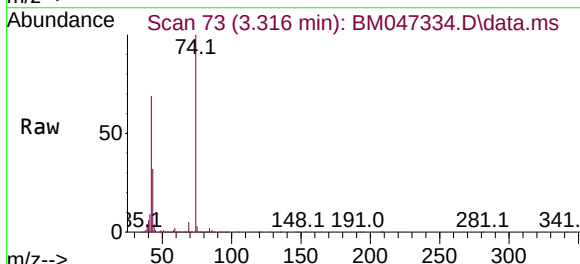
Ion	Ratio	Lower	Upper
79	100		
52	61.3	51.2	76.8
51	31.8	26.1	39.1

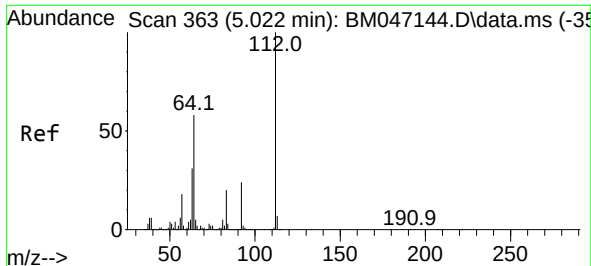


#4
 n-Nitrosodimethylamine
 Concen: 36.025 ng
 RT: 3.316 min Scan# 73
 Delta R.T. -0.012 min
 Lab File: BM047334.D
 Acq: 23 Aug 2024 15:28

Tgt Ion: 42 Resp: 352414

Ion	Ratio	Lower	Upper
42	100		
74	145.6	112.9	169.3
44	6.5	5.3	7.9

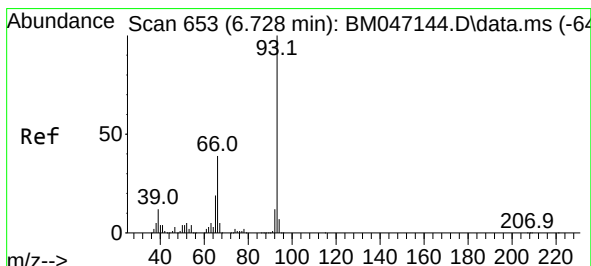
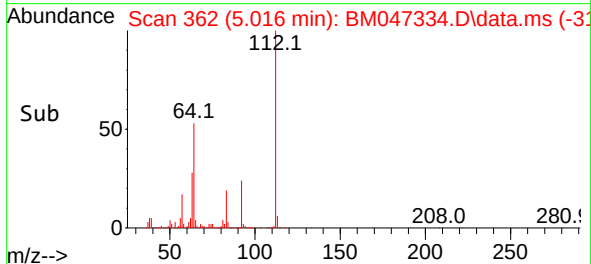
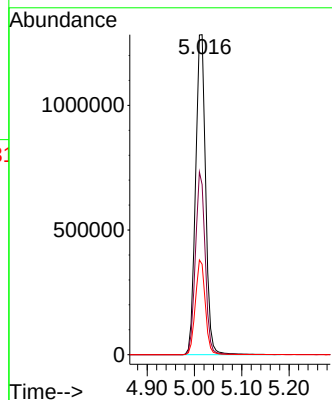
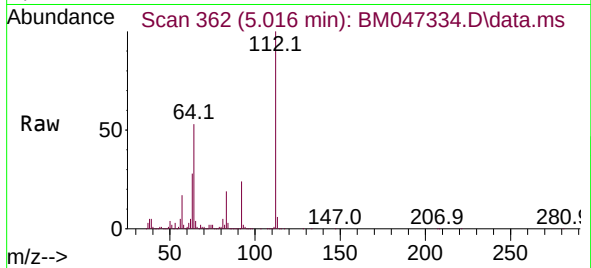




#5
2-Fluorophenol
Concen: 102.951 ng
RT: 5.016 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

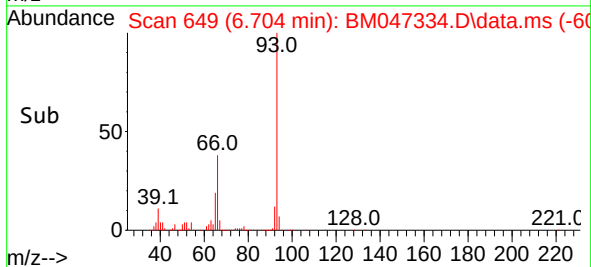
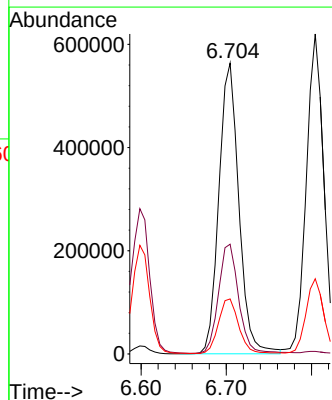
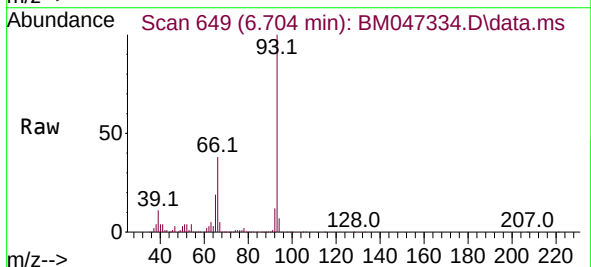
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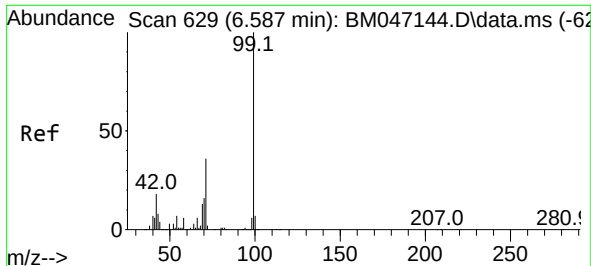
Tgt Ion:112 Resp: 1897247
Ion Ratio Lower Upper
112 100
64 53.1 46.7 70.1
63 28.3 24.8 37.2



#6
Aniline
Concen: 38.262 ng
RT: 6.704 min Scan# 649
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 93 Resp: 918337
Ion Ratio Lower Upper
93 100
66 37.7 31.4 47.2
65 18.9 15.6 23.4

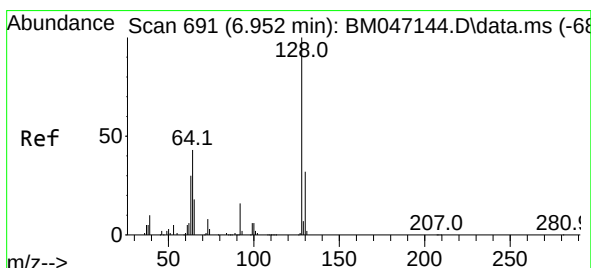
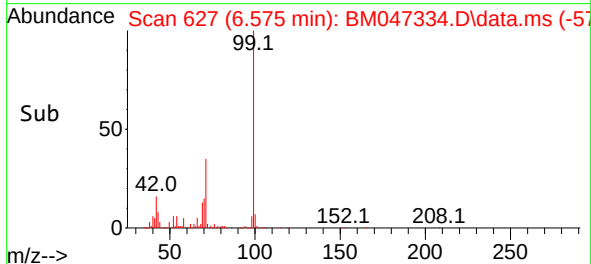
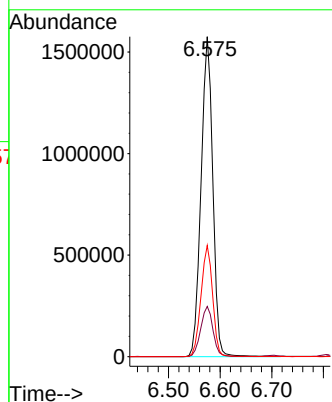
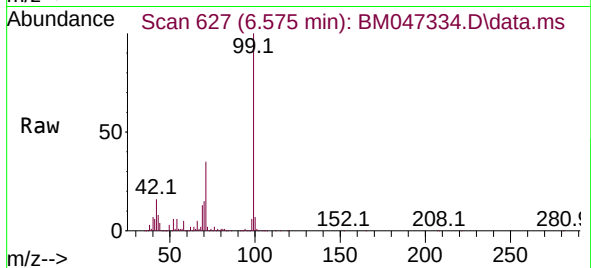




#7
Phenol-d6
Concen: 97.918 ng
RT: 6.575 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

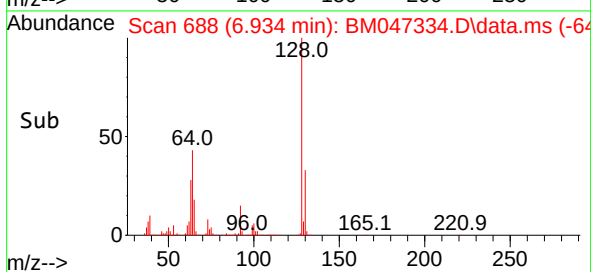
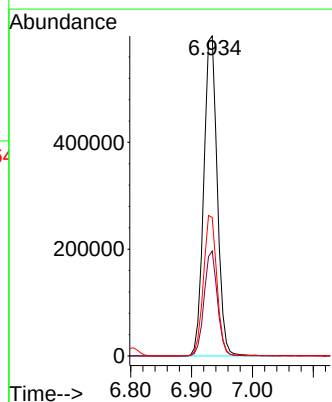
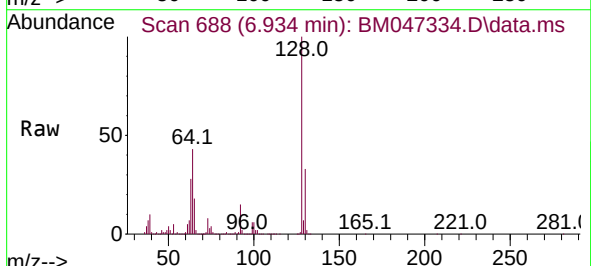
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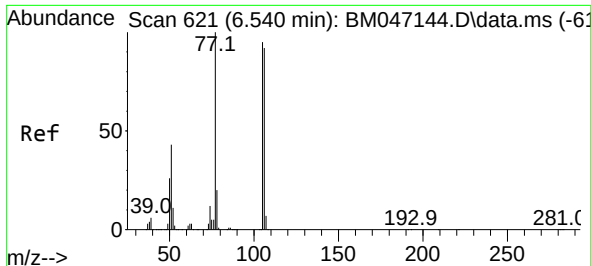
Tgt Ion: 99 Resp: 2486438
Ion Ratio Lower Upper
99 100
42 15.7 14.1 21.1
71 34.8 28.5 42.7



#8
2-Chlorophenol
Concen: 46.024 ng
RT: 6.934 min Scan# 688
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 128 Resp: 925064
Ion Ratio Lower Upper
128 100
130 32.8 12.1 52.1
64 43.3 26.6 66.6

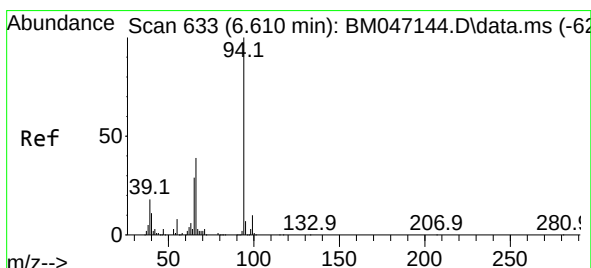
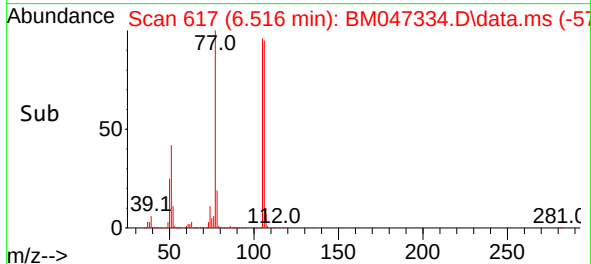
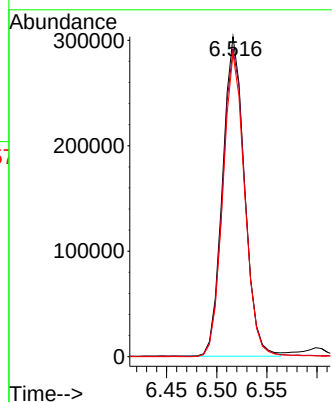
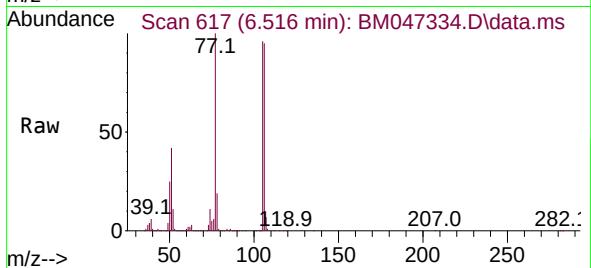




#9
Benzaldehyde
Concen: 32.010 ng
RT: 6.516 min Scan# 617
Delta R.T. -0.024 min
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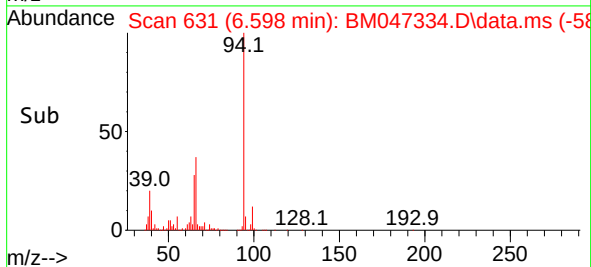
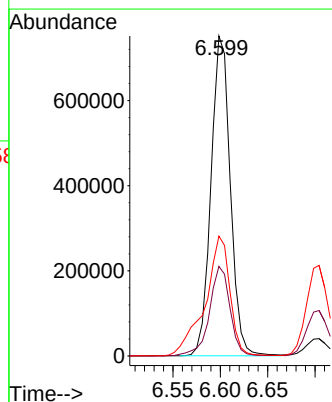
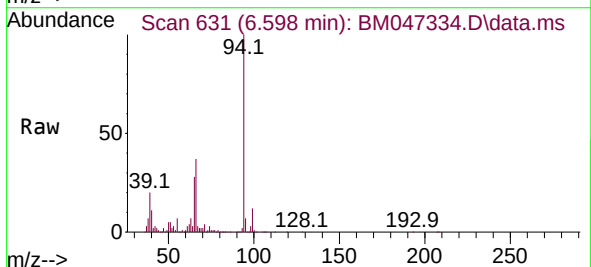
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

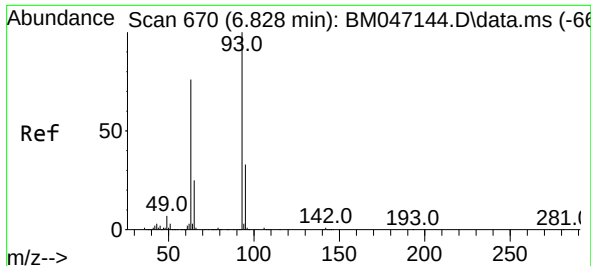
Tgt Ion: 77 Resp: 461599
Ion Ratio Lower Upper
77 100
105 96.2 74.5 114.5
106 94.7 72.3 112.3



#10
Phenol
Concen: 42.039 ng
RT: 6.598 min Scan# 631
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 94 Resp: 1065170
Ion Ratio Lower Upper
94 100
65 28.0 9.0 49.0
66 37.4 18.9 58.9

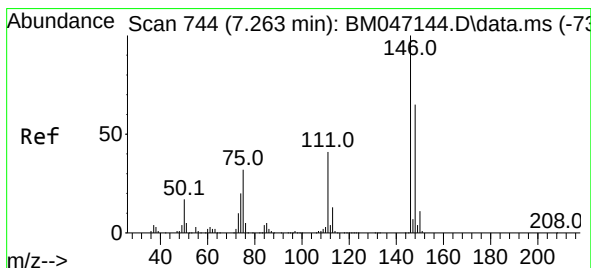
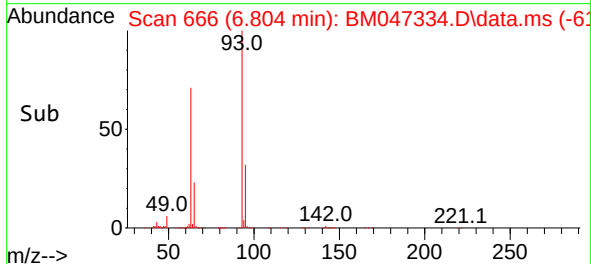
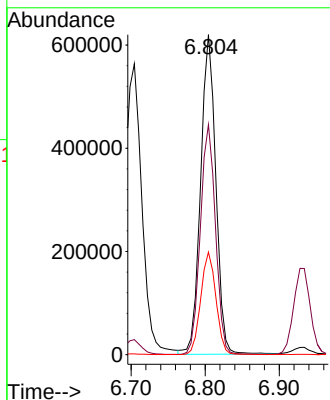
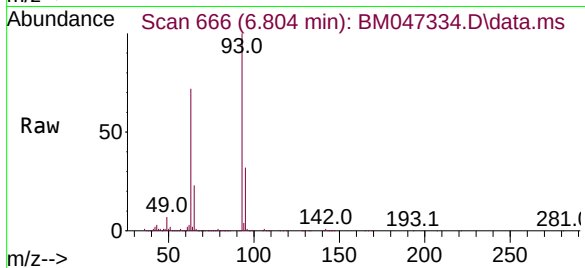




#11
bis(2-Chloroethyl)ether
Concen: 40.732 ng
RT: 6.804 min Scan# 60
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

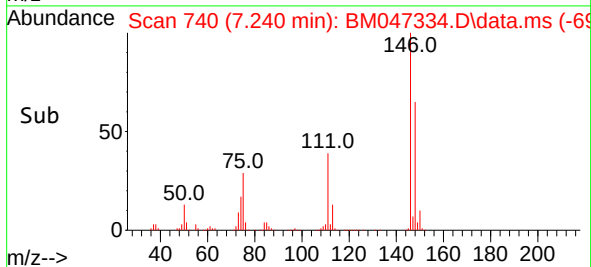
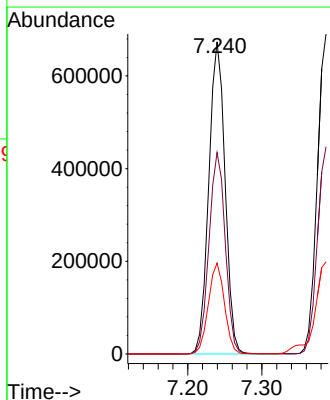
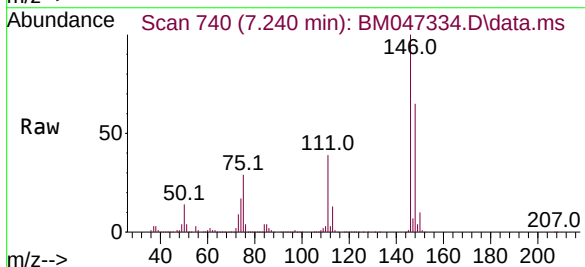
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

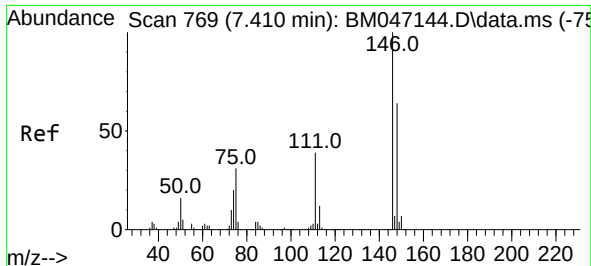
Tgt Ion: 93 Resp: 883826
Ion Ratio Lower Upper
93 100
63 71.9 55.8 95.8
95 32.1 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 42.919 ng
RT: 7.240 min Scan# 740
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 146 Resp: 1025119
Ion Ratio Lower Upper
146 100
148 64.5 52.3 78.5
75 29.1 25.8 38.6

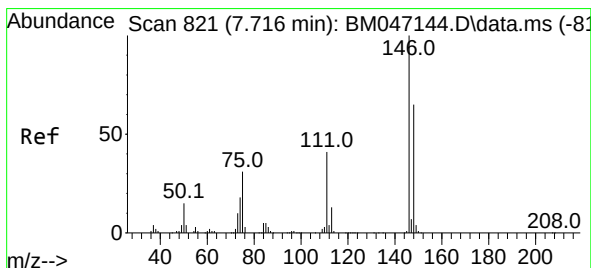
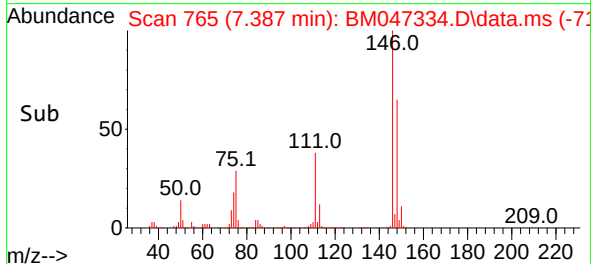
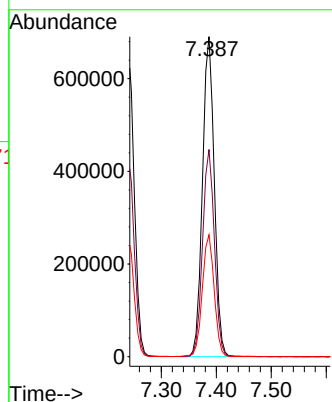
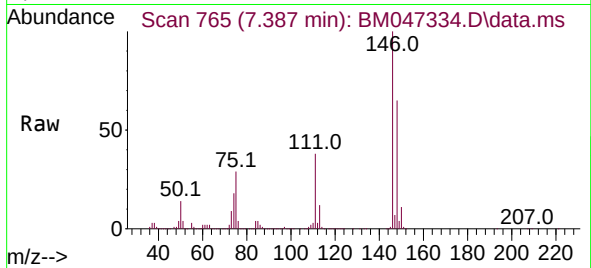




#13
1,4-Dichlorobenzene
Concen: 42.670 ng
RT: 7.387 min Scan# 701
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

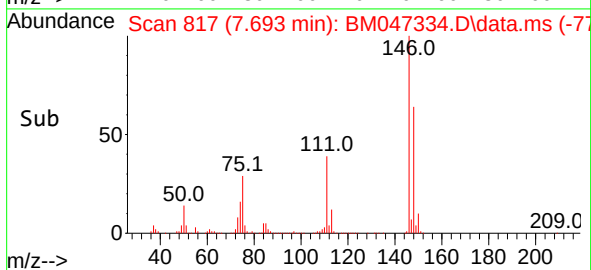
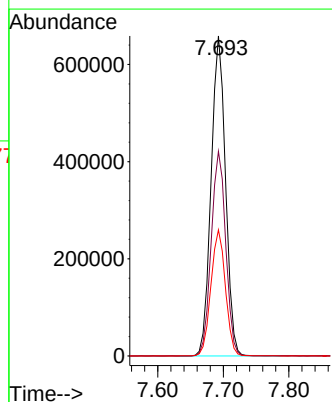
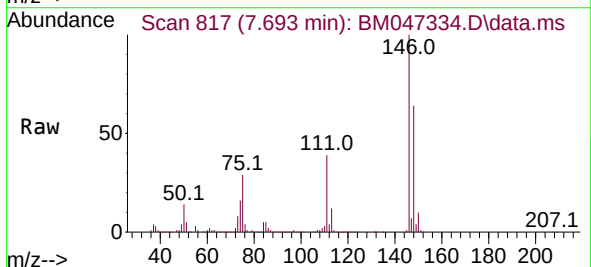
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

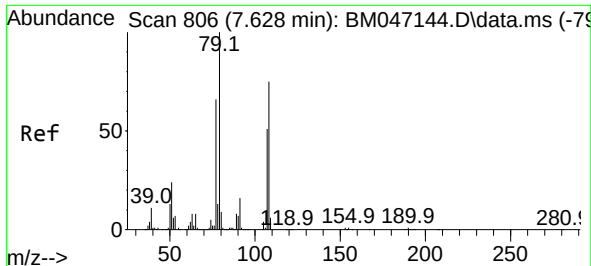
Tgt Ion:146 Resp: 1031877
Ion Ratio Lower Upper
146 100
148 64.7 51.4 77.2
111 38.1 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 44.104 ng
RT: 7.693 min Scan# 817
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:146 Resp: 1006333
Ion Ratio Lower Upper
146 100
148 64.0 51.8 77.8
111 39.4 33.3 49.9

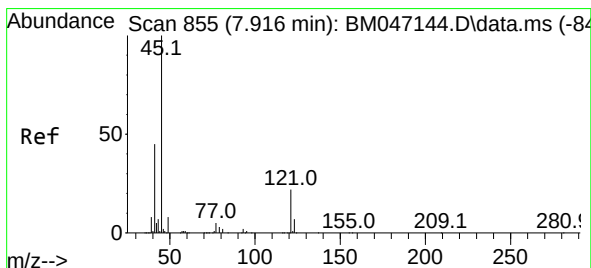
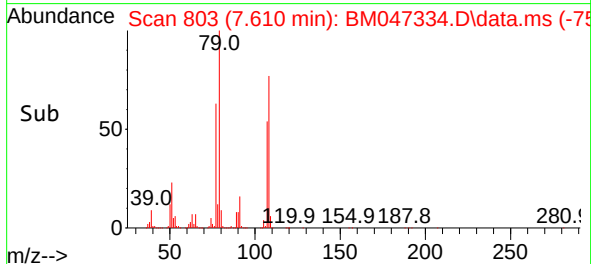
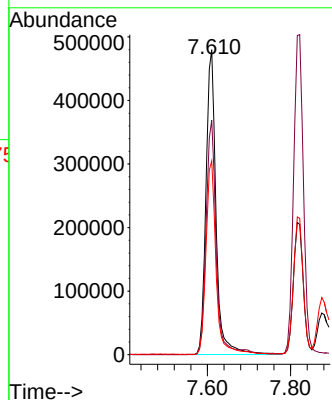
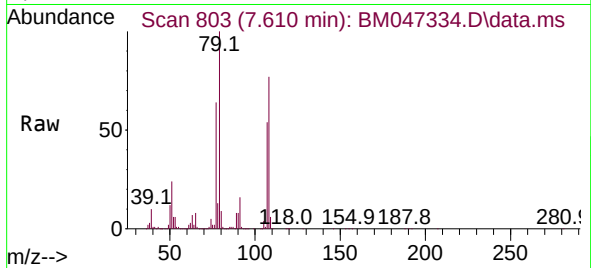




#15
Benzyl Alcohol
Concen: 44.647 ng
RT: 7.610 min Scan# 803
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

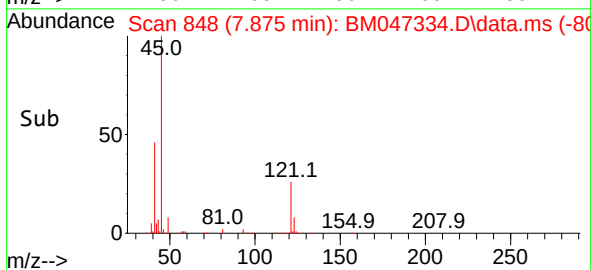
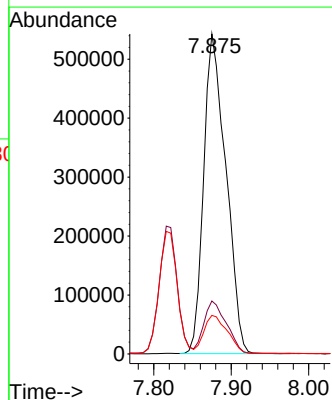
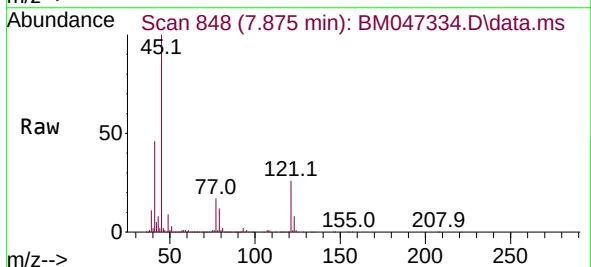
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

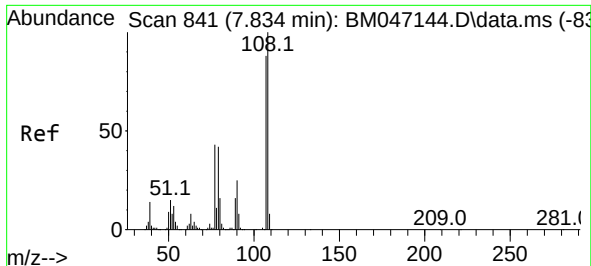
Tgt Ion: 79 Resp: 806872
Ion Ratio Lower Upper
79 100
108 76.8 59.7 89.5
77 63.5 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.827 ng
RT: 7.875 min Scan# 848
Delta R.T. -0.041 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 45 Resp: 1081087
Ion Ratio Lower Upper
45 100
77 16.6 0.0 35.6
79 12.1 0.0 32.4





#17

2-Methylphenol

Concen: 43.356 ng

RT: 7.816 min Scan# 81

Delta R.T. -0.018 min

Lab File: BM047334.D

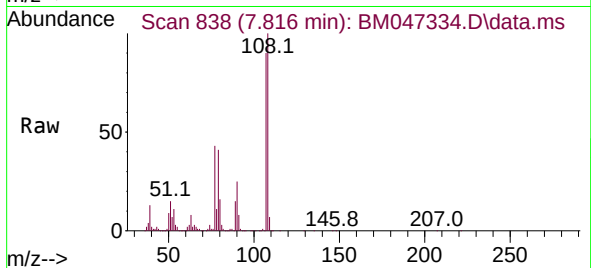
Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD



Tgt Ion:107 Resp: 732898

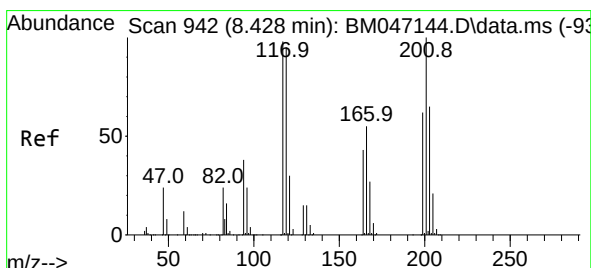
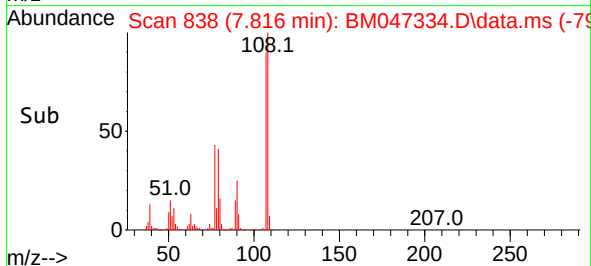
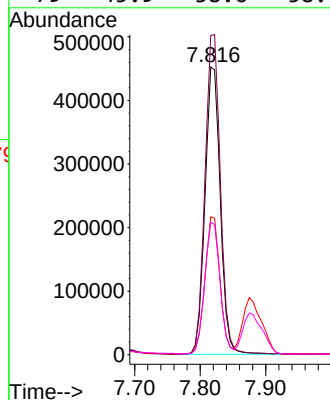
Ion Ratio Lower Upper

107 100

108 111.0 90.6 135.8

77 47.9 39.3 58.9

79 45.9 38.6 58.0



#18

Hexachloroethane

Concen: 41.685 ng

RT: 8.398 min Scan# 937

Delta R.T. -0.030 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

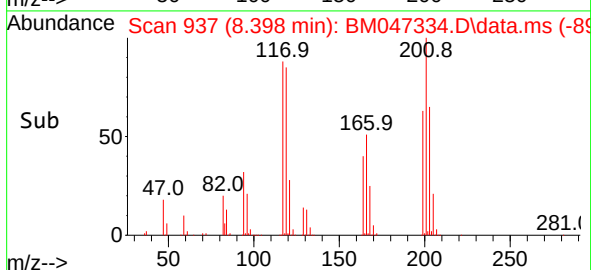
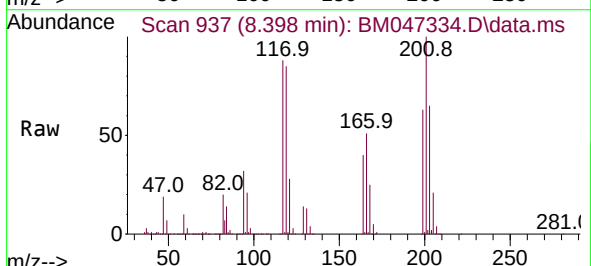
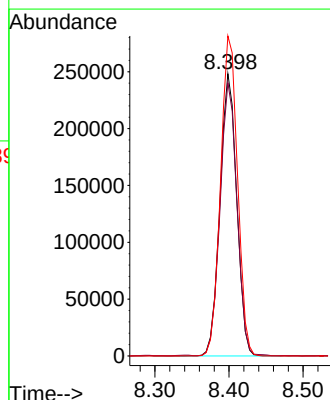
Tgt Ion:117 Resp: 390477

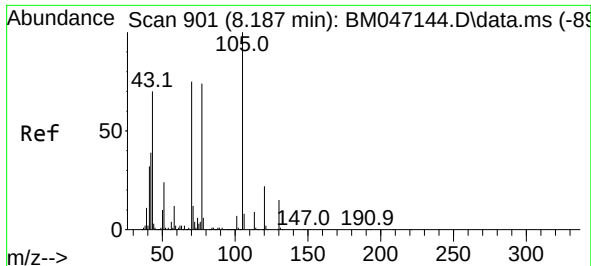
Ion Ratio Lower Upper

117 100

119 96.8 77.0 115.4

201 113.4 81.3 121.9



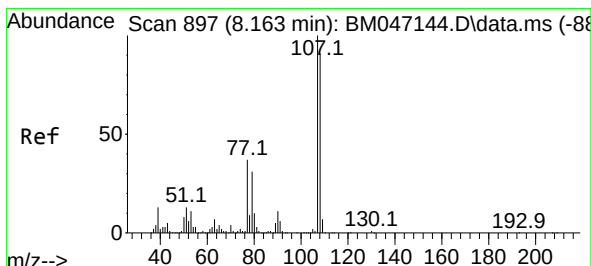
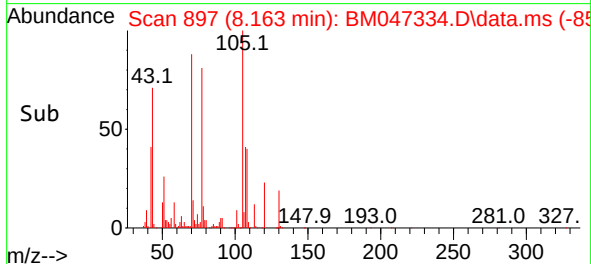
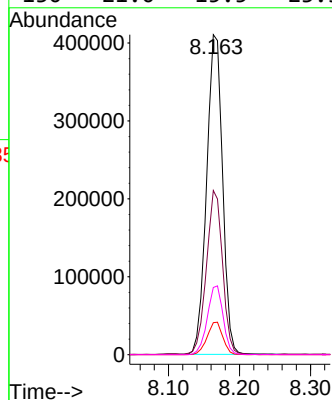
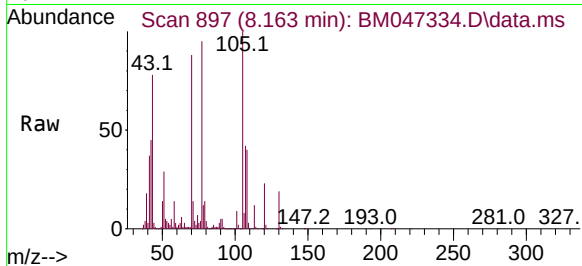


#19
n-Nitroso-di-n-propylamine
Concen: 37.563 ng
RT: 8.163 min Scan# 897
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion: 70 Resp: 642494

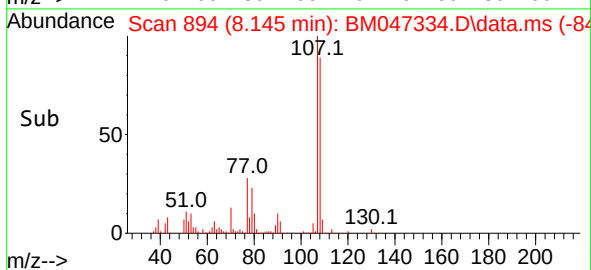
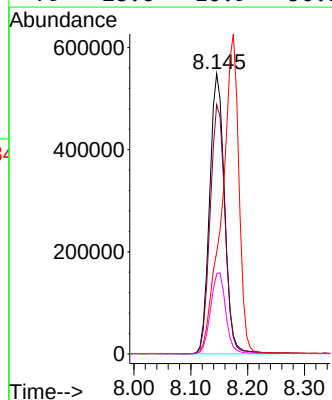
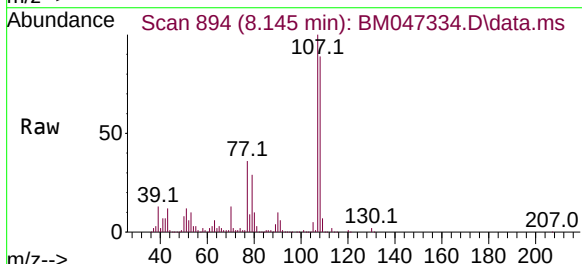
Ion	Ratio	Lower	Upper
70	100		
42	51.3	42.0	63.0
101	10.0	7.2	10.8
130	21.0	15.5	23.3

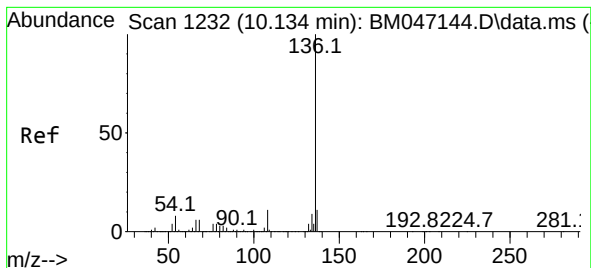


#20
3+4-Methylphenols
Concen: 42.191 ng
RT: 8.145 min Scan# 894
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 107 Resp: 997057

Ion	Ratio	Lower	Upper
107	100		
108	89.0	70.7	110.7
77	36.2	17.4	57.4
79	28.6	10.9	50.9

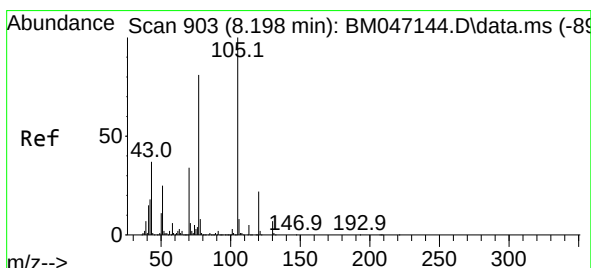
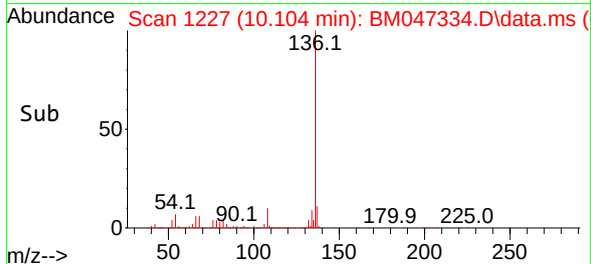
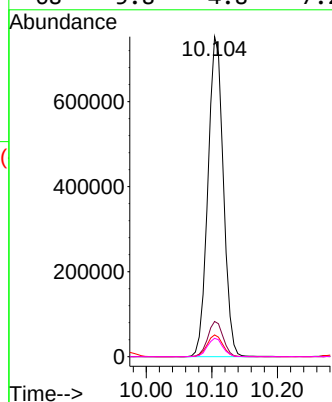
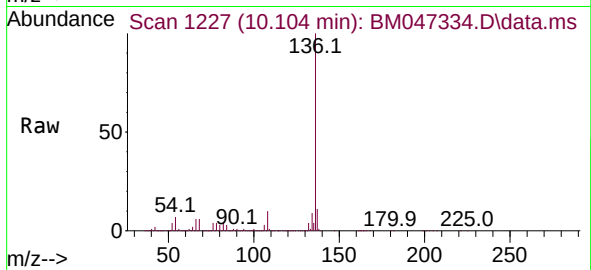




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 11
Delta R.T. -0.030 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

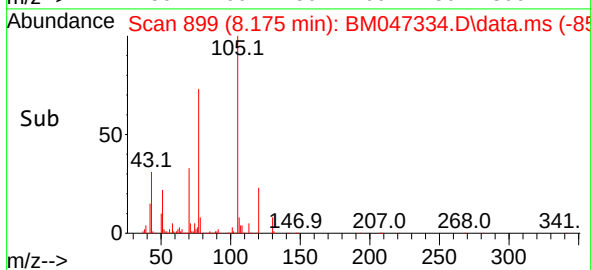
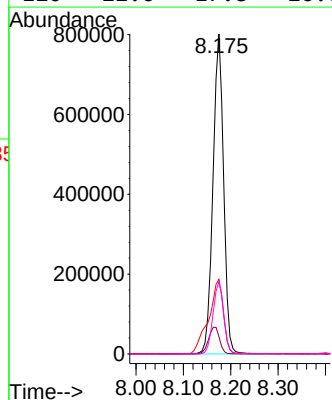
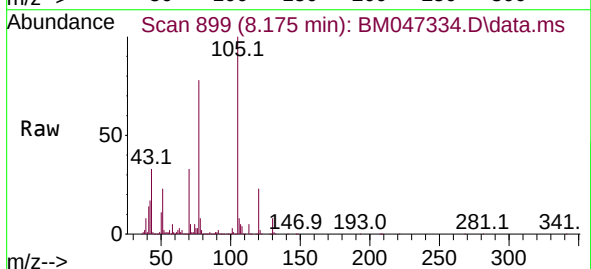
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

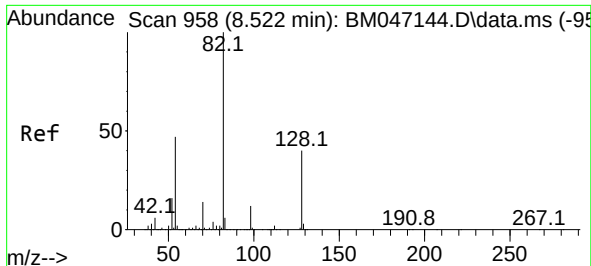
Tgt Ion:136 Resp: 1229856
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.8 6.0 9.0
68 5.8 4.8 7.2



#22
Acetophenone
Concen: 42.142 ng
RT: 8.175 min Scan# 899
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:105 Resp: 1251059
Ion Ratio Lower Upper
105 100
71 5.4 4.5 6.7
51 23.3 20.1 30.1
120 22.6 17.8 26.6





#23

Nitrobenzene-d5

Concen: 67.874 ng

RT: 8.504 min Scan# 91

Delta R.T. -0.018 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

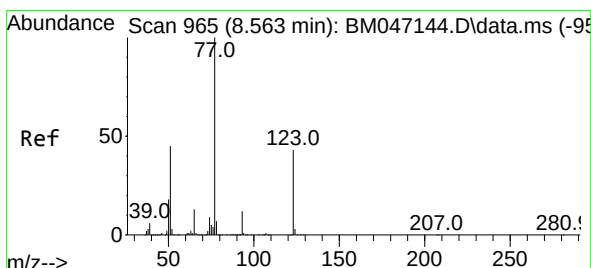
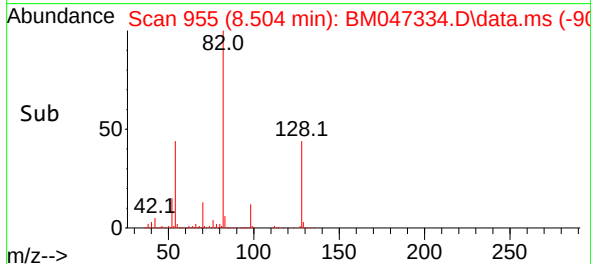
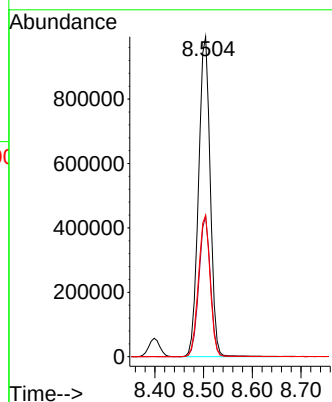
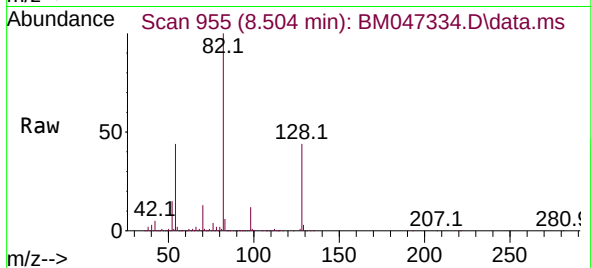
BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion: 82 Resp: 1657794

Ion	Ratio	Lower	Upper
82	100		
128	44.1	32.3	48.5
54	44.2	37.4	56.2



#24

Nitrobenzene

Concen: 40.221 ng

RT: 8.545 min Scan# 962

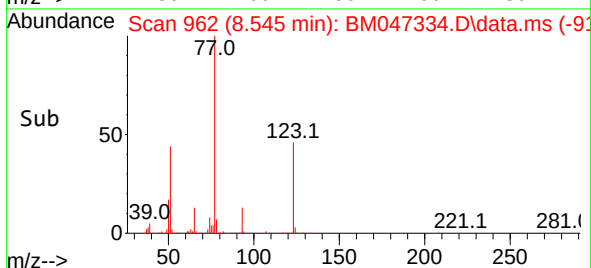
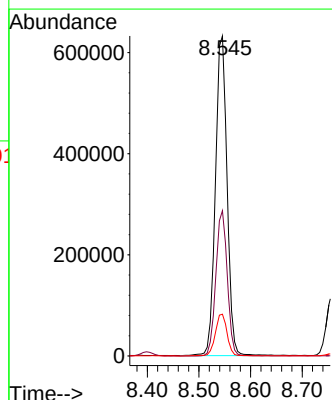
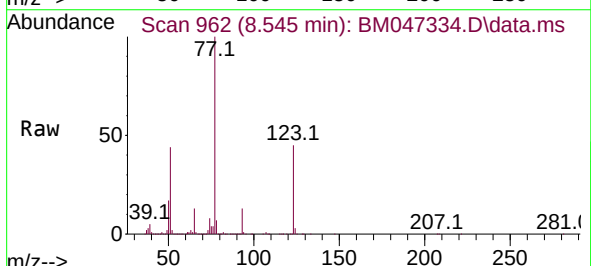
Delta R.T. -0.018 min

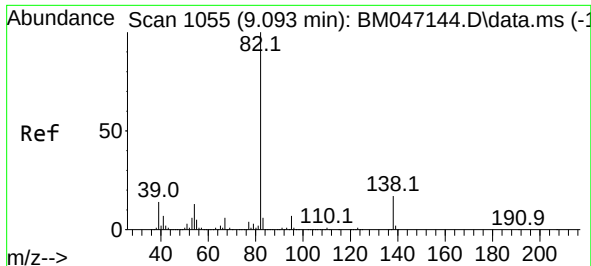
Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Tgt Ion: 77 Resp: 989202

Ion	Ratio	Lower	Upper
77	100		
123	45.4	34.0	51.0
65	13.0	10.5	15.7





#25

Isophorone

Concen: 43.070 ng

RT: 9.069 min Scan# 1051

Delta R.T. -0.024 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

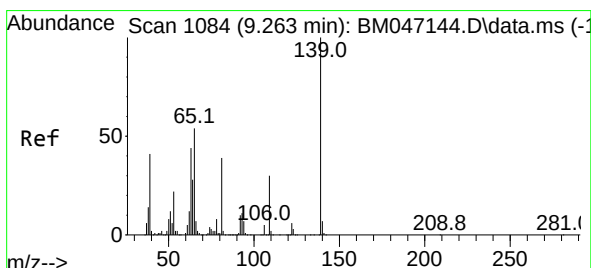
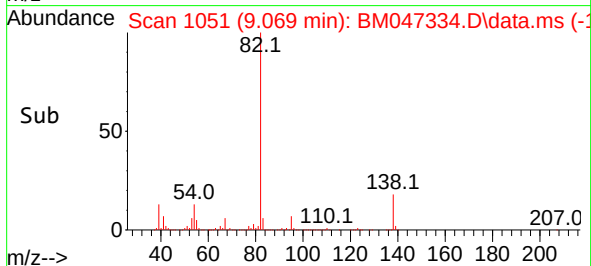
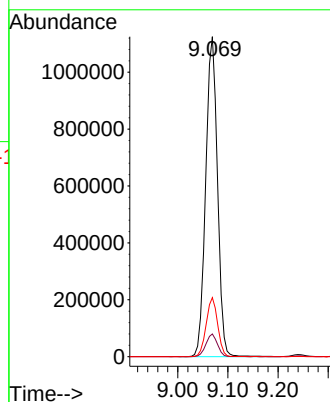
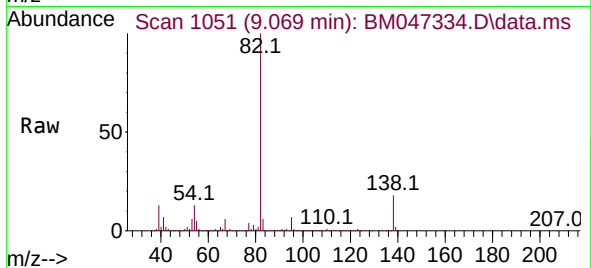
Tgt Ion: 82 Resp: 1831633

Ion Ratio Lower Upper

82 100

95 7.1 5.5 8.3

138 18.4 13.5 20.3



#26

2-Nitrophenol

Concen: 49.030 ng

RT: 9.240 min Scan# 1080

Delta R.T. -0.024 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

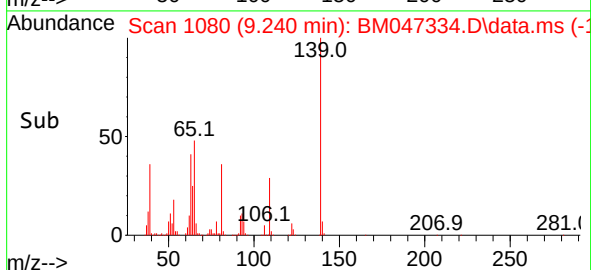
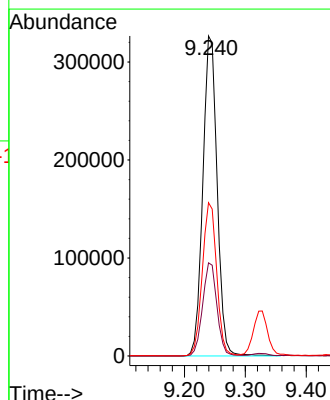
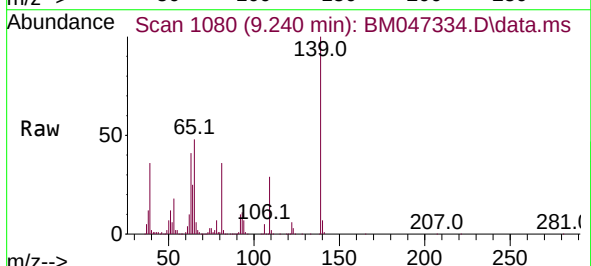
Tgt Ion:139 Resp: 534033

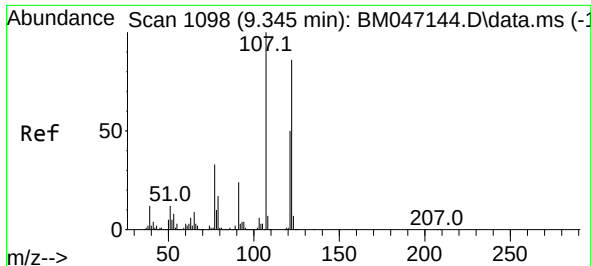
Ion Ratio Lower Upper

139 100

109 29.1 24.4 36.6

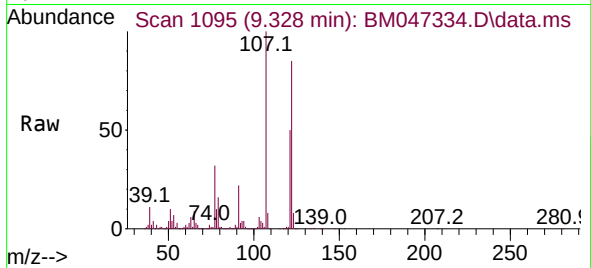
65 47.9 43.0 64.6



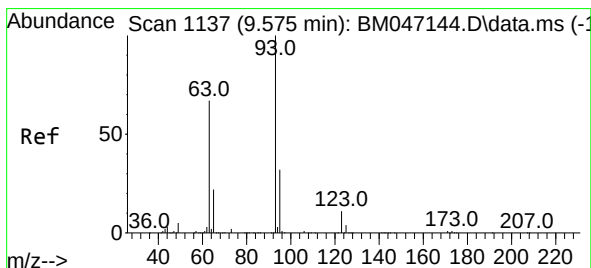
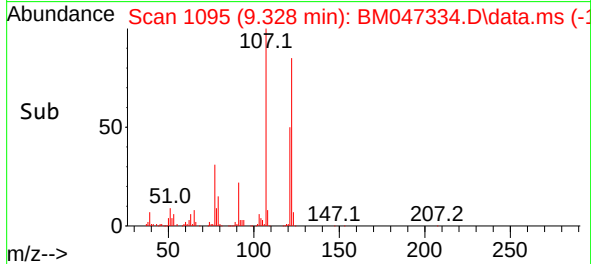
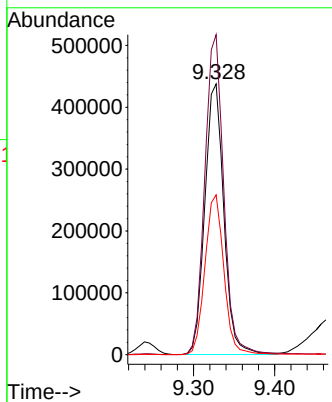


#27
2,4-Dimethylphenol
Concen: 55.930 ng
RT: 9.328 min Scan# 1095
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

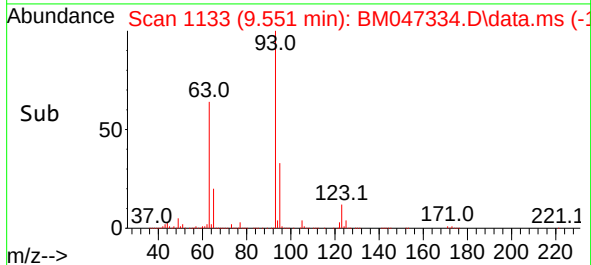
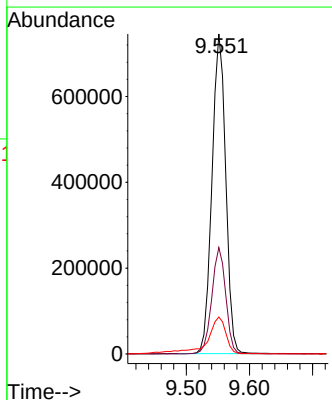
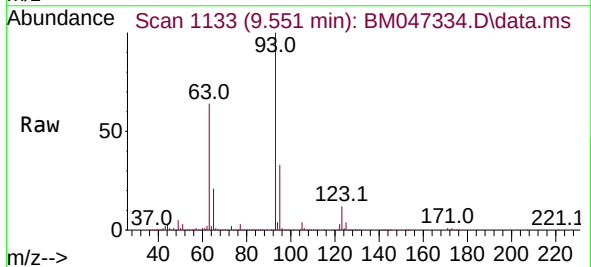


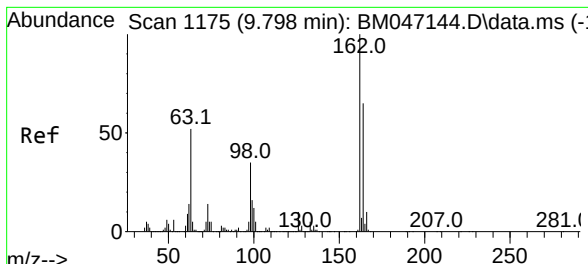
Tgt Ion:122 Resp: 713586
Ion Ratio Lower Upper
122 100
107 118.2 92.8 139.2
121 59.1 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 42.015 ng
RT: 9.551 min Scan# 1133
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 93 Resp: 1124276
Ion Ratio Lower Upper
93 100
95 33.2 25.8 38.8
123 11.6 9.0 13.4



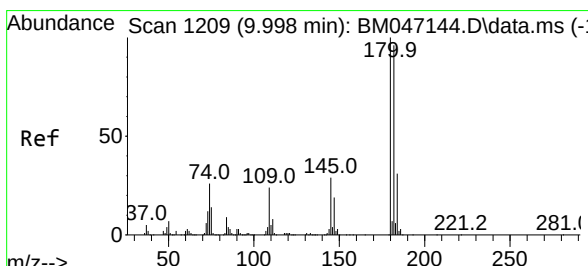
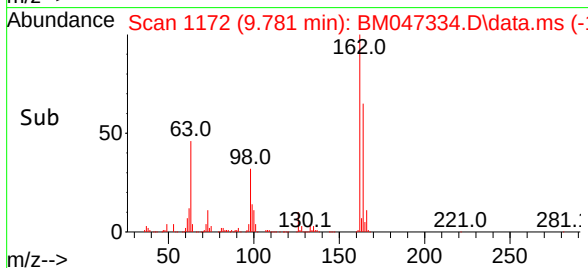
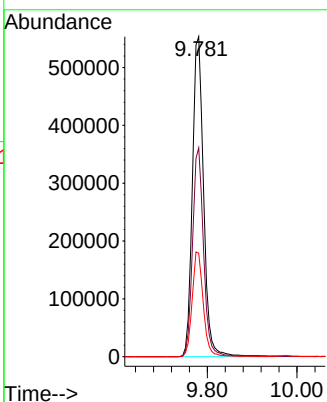
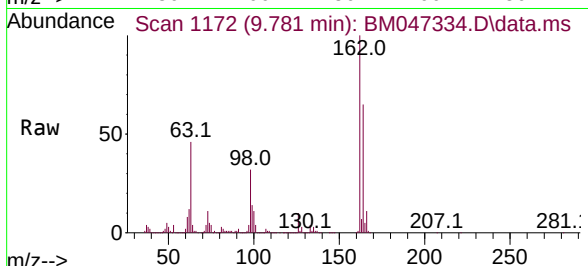


#29
 2,4-Dichlorophenol
 Concen: 50.691 ng
 RT: 9.781 min Scan# 1172
 Delta R.T. -0.018 min
 Lab File: BM047334.D
 Acq: 23 Aug 2024 15:28

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

Tgt Ion:162 Resp: 959626

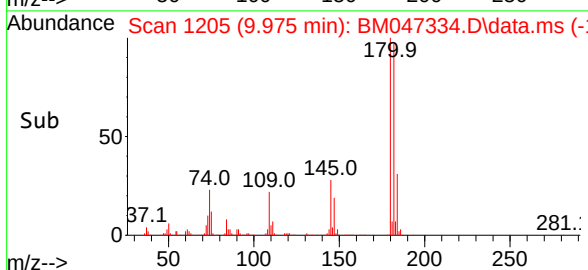
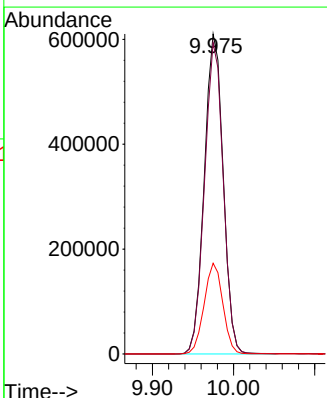
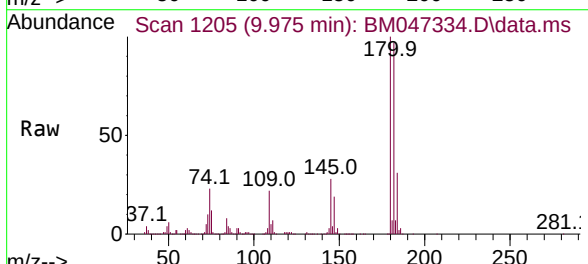
Ion	Ratio	Lower	Upper
162	100		
164	65.3	44.7	84.7
98	32.4	14.9	54.9

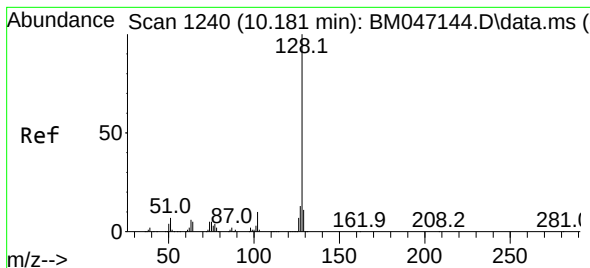


#30
 1,2,4-Trichlorobenzene
 Concen: 46.001 ng
 RT: 9.975 min Scan# 1205
 Delta R.T. -0.024 min
 Lab File: BM047334.D
 Acq: 23 Aug 2024 15:28

Tgt Ion:180 Resp: 985508

Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.6	115.0
145	28.4	23.4	35.2

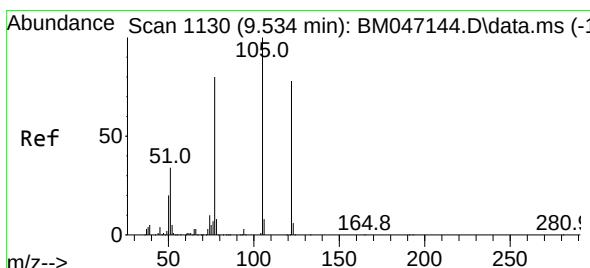
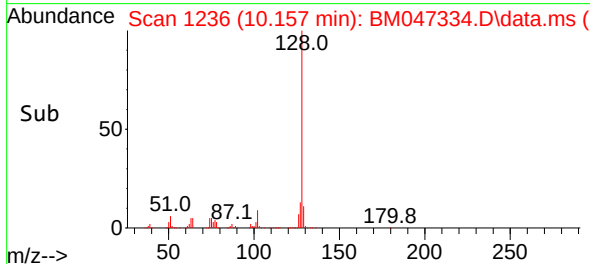
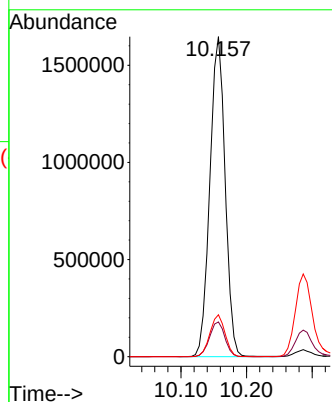
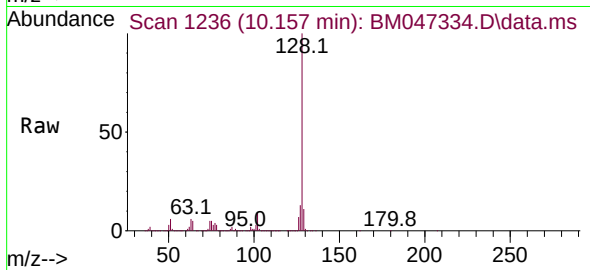




#31
Naphthalene
Concen: 43.498 ng
RT: 10.157 min Scan# 1236
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

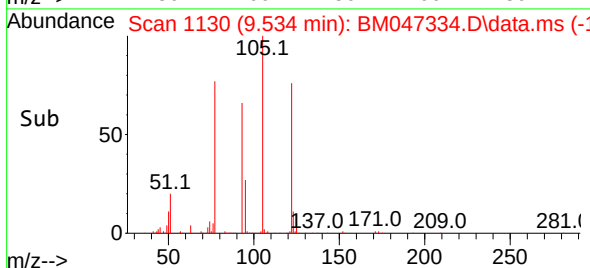
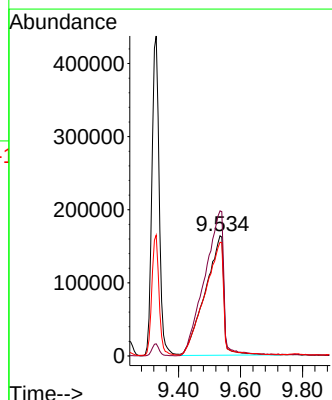
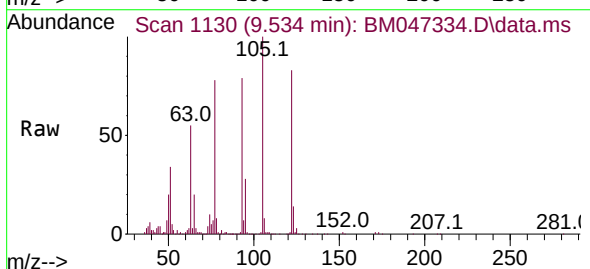
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

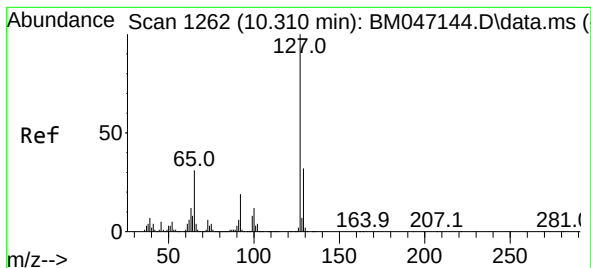
Tgt Ion:128 Resp: 2664965
Ion Ratio Lower Upper
128 100
129 10.9 8.6 13.0
127 13.1 10.2 15.4



#32
Benzoic acid
Concen: 46.264 ng
RT: 9.534 min Scan# 1130
Delta R.T. -0.000 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:122 Resp: 685776
Ion Ratio Lower Upper
122 100
105 120.8 107.1 147.1
77 94.7 82.1 122.1





#33

4-Chloroaniline

Concen: 34.067 ng

RT: 10.287 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion:127 Resp: 802647

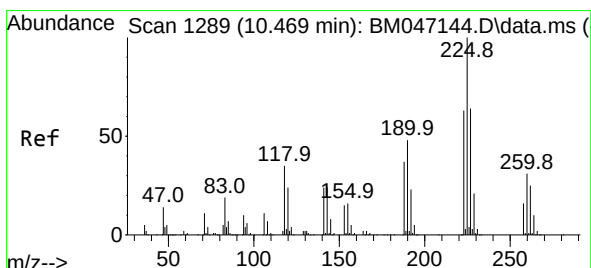
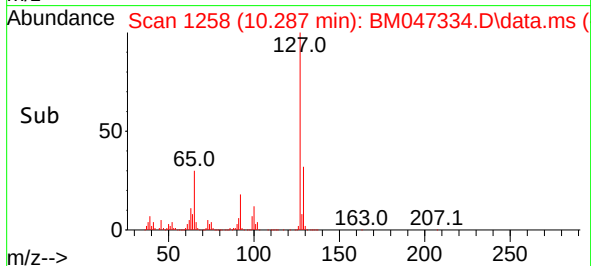
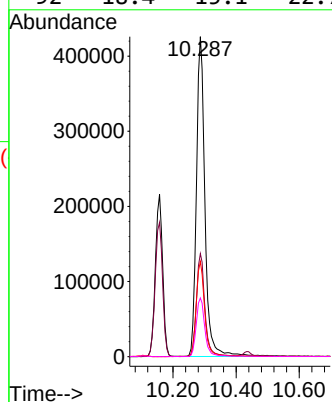
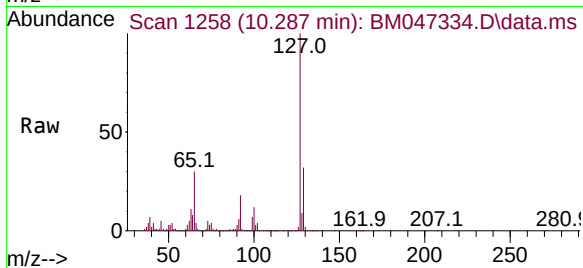
Ion Ratio Lower Upper

127 100

129 32.2 25.8 38.8

65 29.7 24.9 37.3

92 18.4 15.1 22.7



#34

Hexachlorobutadiene

Concen: 50.825 ng

RT: 10.439 min Scan# 1284

Delta R.T. -0.030 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

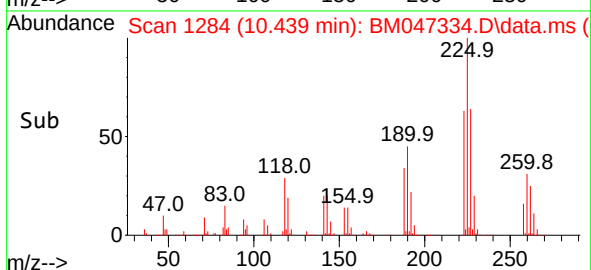
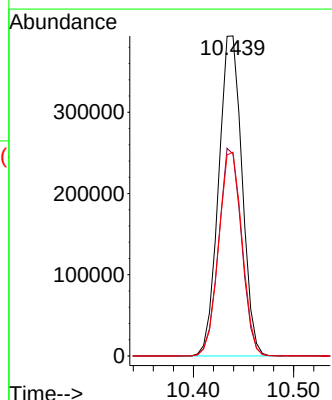
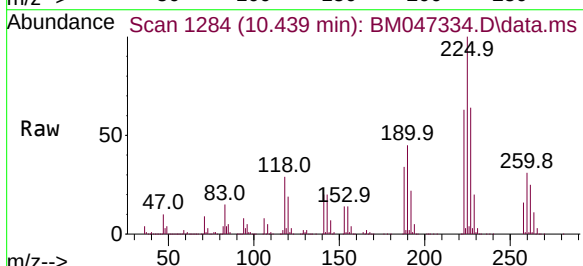
Tgt Ion:225 Resp: 637314

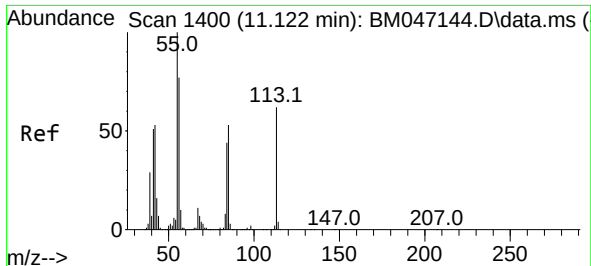
Ion Ratio Lower Upper

225 100

223 63.1 50.2 75.2

227 63.7 51.4 77.0

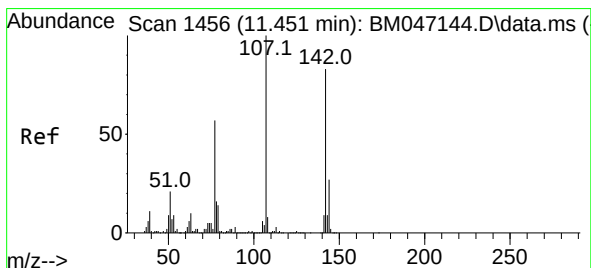
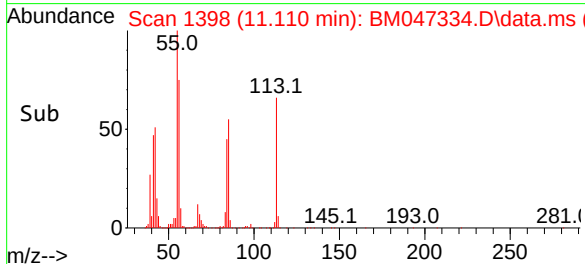
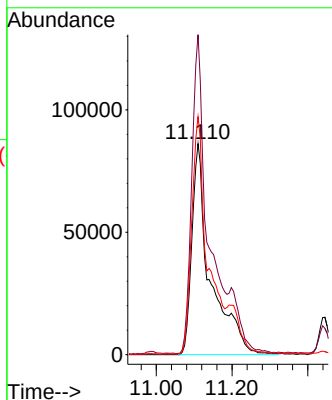
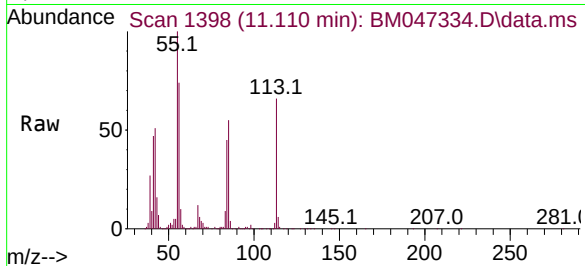




#35
Caprolactam
Concen: 44.521 ng
RT: 11.110 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

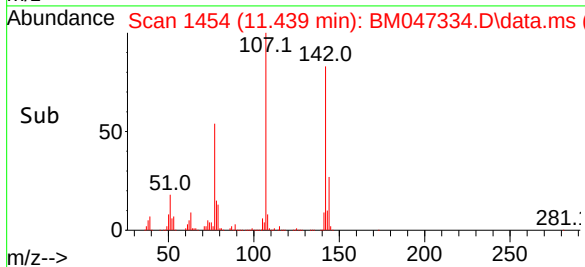
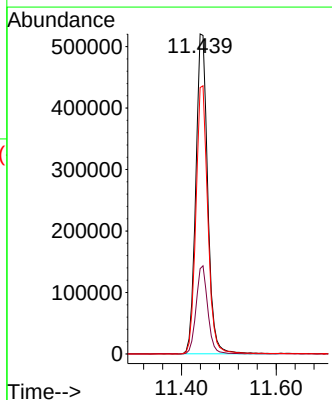
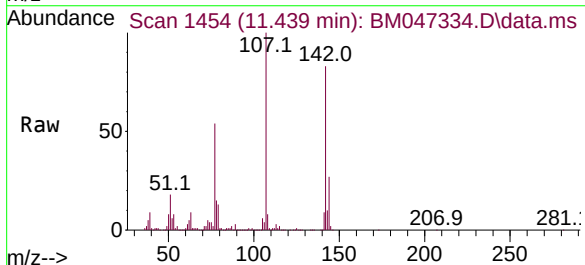
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

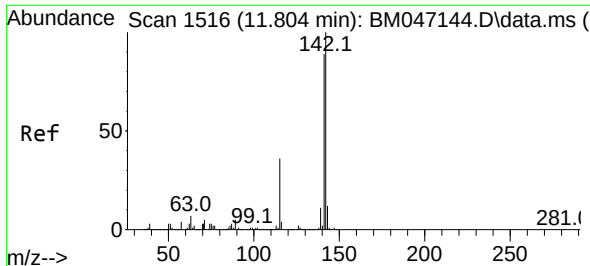
Tgt Ion:113 Resp: 292692
Ion Ratio Lower Upper
113 100
55 151.6 140.5 180.5
56 112.8 103.6 143.6



#36
4-Chloro-3-methylphenol
Concen: 44.999 ng
RT: 11.439 min Scan# 1454
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:107 Resp: 907239
Ion Ratio Lower Upper
107 100
144 26.6 21.8 32.6
142 83.3 66.8 100.2

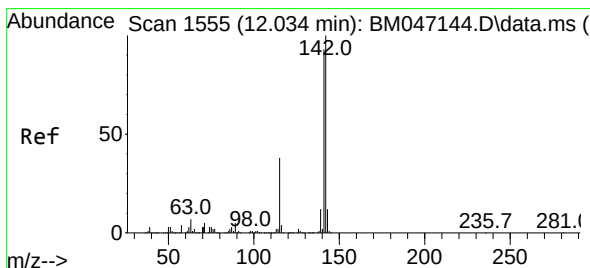
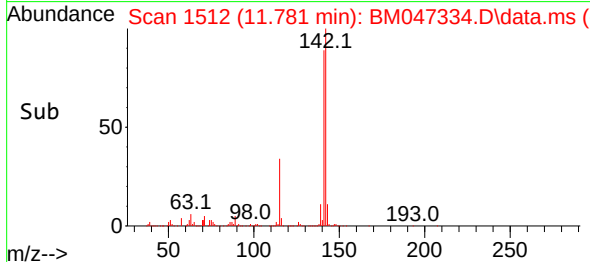
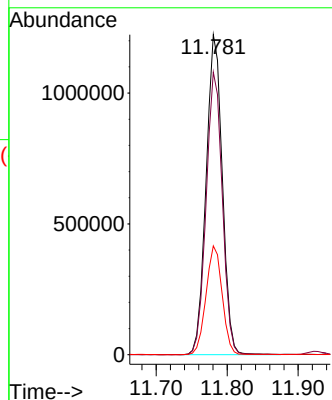
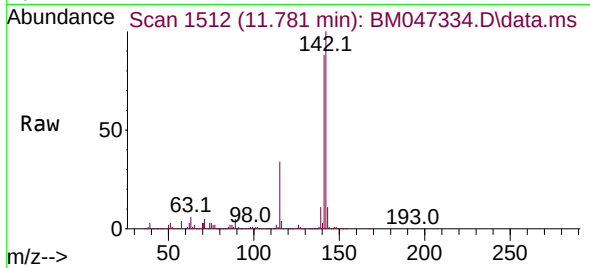




#37
2-Methylnaphthalene
Concen: 44.514 ng
RT: 11.781 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

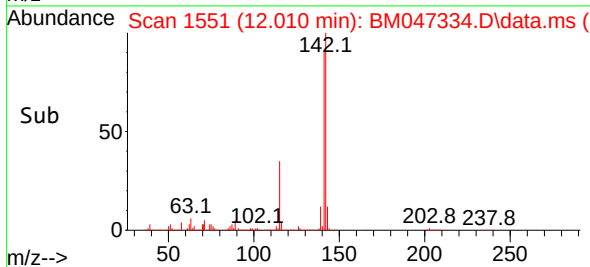
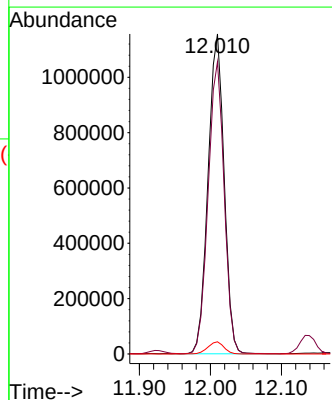
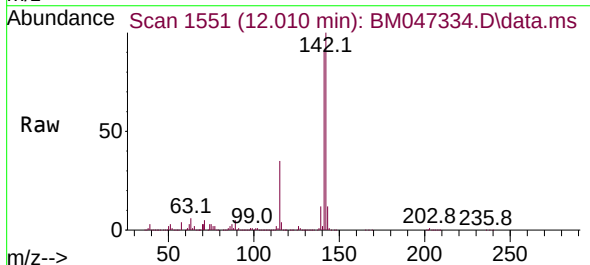
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

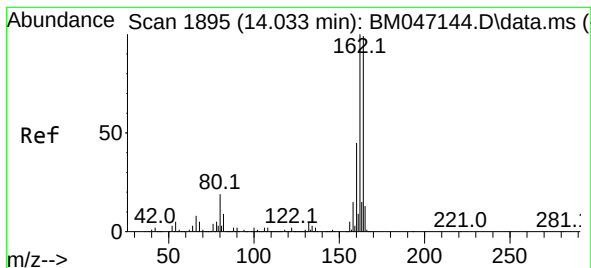
Tgt Ion:142 Resp: 1941794
Ion Ratio Lower Upper
142 100
141 88.3 70.9 106.3
115 34.0 28.7 43.1



#38
1-Methylnaphthalene
Concen: 42.165 ng
RT: 12.010 min Scan# 1551
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:142 Resp: 1817830
Ion Ratio Lower Upper
142 100
141 91.3 74.6 111.8
116 3.8 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.010 min Scan# 11

Delta R.T. -0.024 min

Lab File: BM047334.D

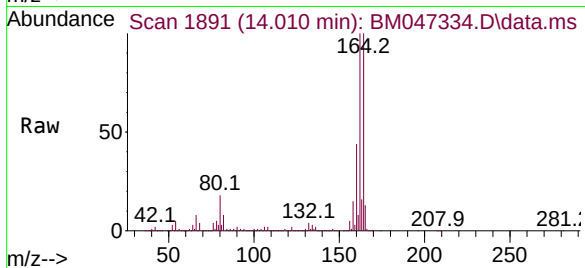
Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD



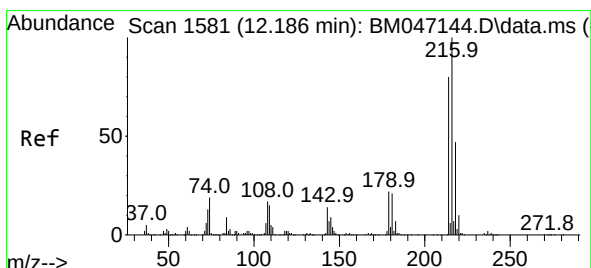
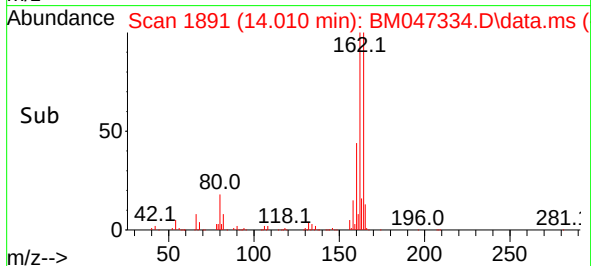
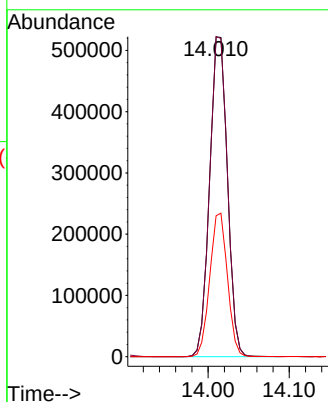
Tgt Ion:164 Resp: 795359

Ion Ratio Lower Upper

164 100

162 100.0 80.7 121.1

160 44.1 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 50.739 ng

RT: 12.163 min Scan# 1577

Delta R.T. -0.024 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Tgt Ion:216 Resp: 1100717

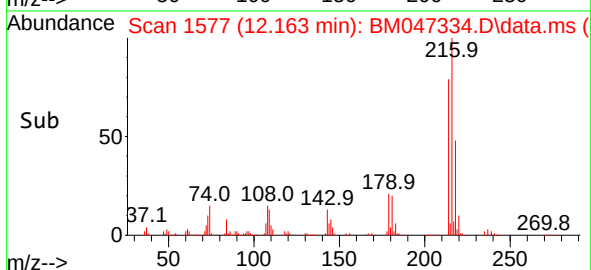
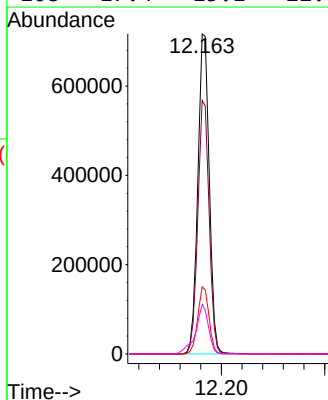
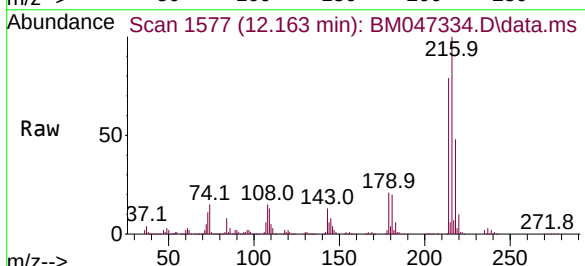
Ion Ratio Lower Upper

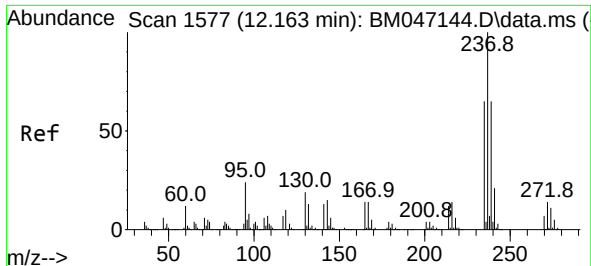
216 100

214 78.6 63.4 95.2

179 20.6 17.6 26.4

108 17.4 15.1 22.7

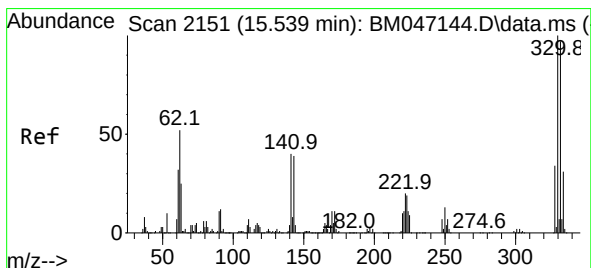
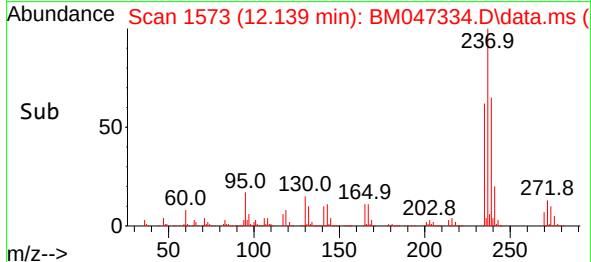
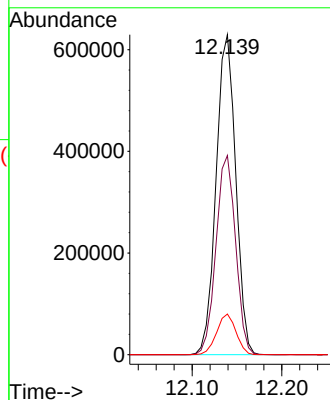
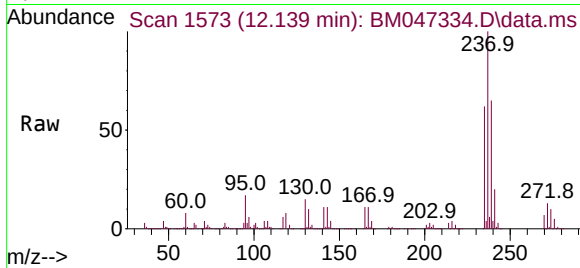




#41
Hexachlorocyclopentadiene
Concen: 126.079 ng
RT: 12.139 min Scan# 1
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

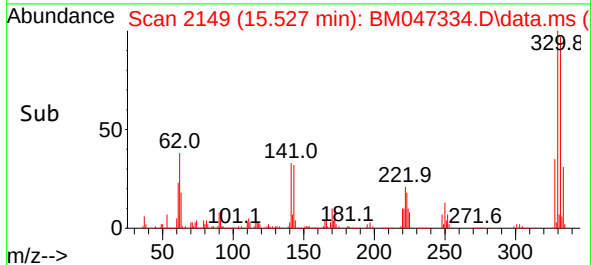
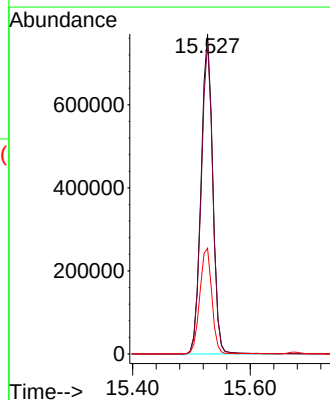
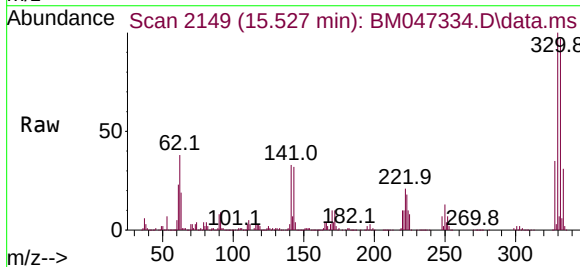
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

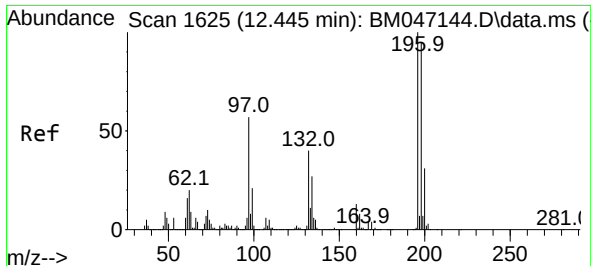
Tgt Ion:237 Resp: 955071
Ion Ratio Lower Upper
237 100
235 62.3 44.8 84.8
272 12.7 0.0 33.5



#42
2,4,6-Tribromophenol
Concen: 114.511 ng
RT: 15.527 min Scan# 2149
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:330 Resp: 1056054
Ion Ratio Lower Upper
330 100
332 96.8 77.4 116.2
141 34.2 31.6 47.4

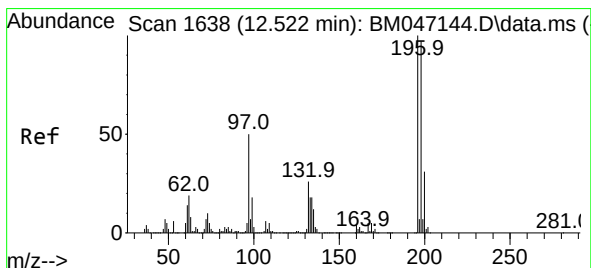
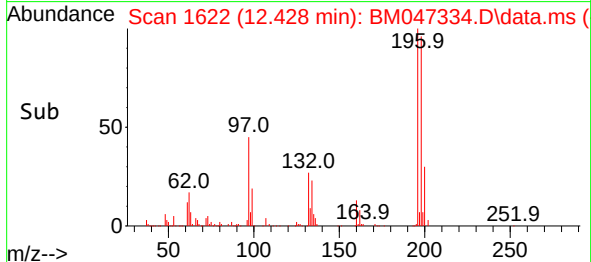
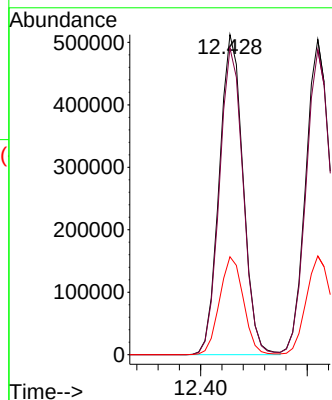
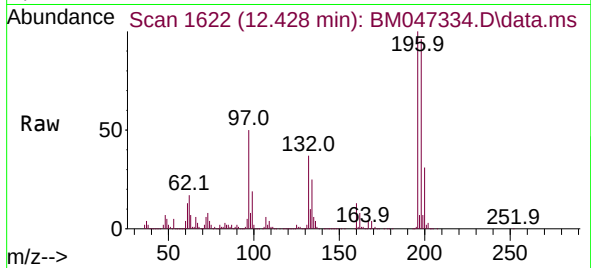




#43
2,4,6-Trichlorophenol
Concen: 51.453 ng
RT: 12.428 min Scan# 1622
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

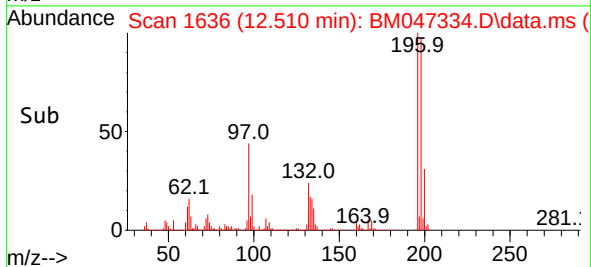
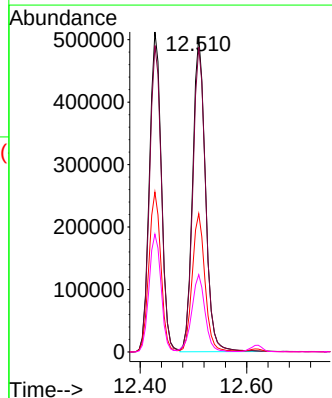
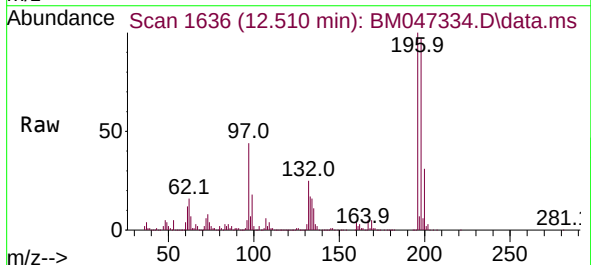
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

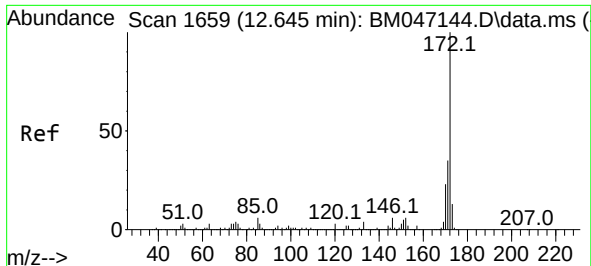
Tgt Ion:196 Resp: 793371
Ion Ratio Lower Upper
196 100
198 95.8 75.6 113.4
200 30.6 24.6 37.0



#44
2,4,5-Trichlorophenol
Concen: 49.205 ng
RT: 12.510 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:196 Resp: 842400
Ion Ratio Lower Upper
196 100
198 96.7 77.7 116.5
97 43.8 39.8 59.8
132 24.5 20.7 31.1

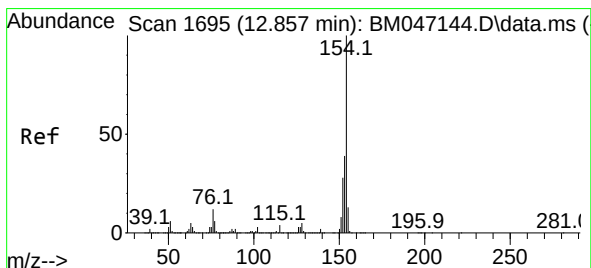
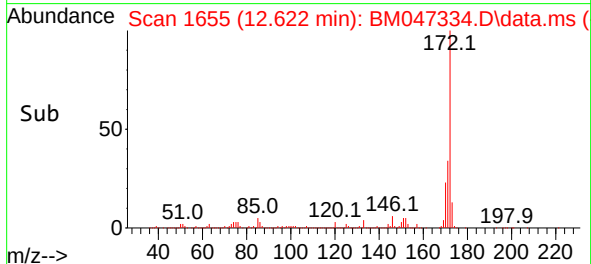
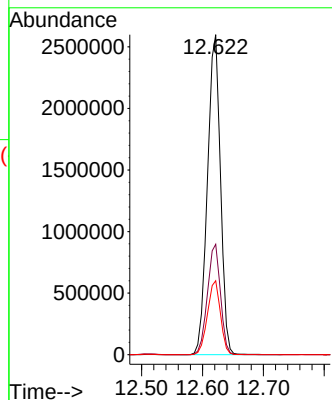
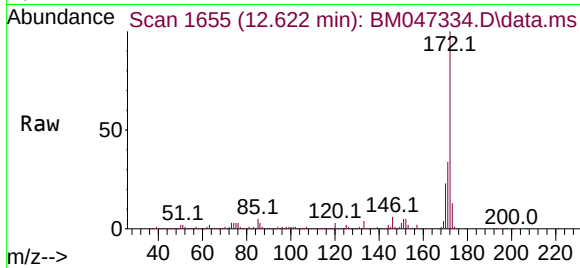




#45
2-Fluorobiphenyl
Concen: 74.757 ng
RT: 12.622 min Scan# 1655
Delta R.T. -0.023 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

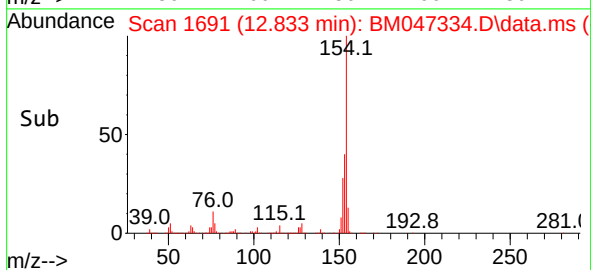
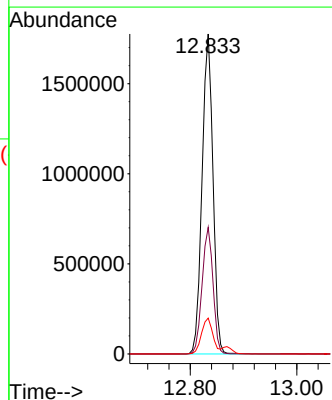
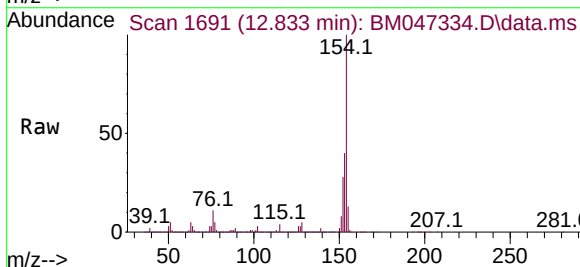
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

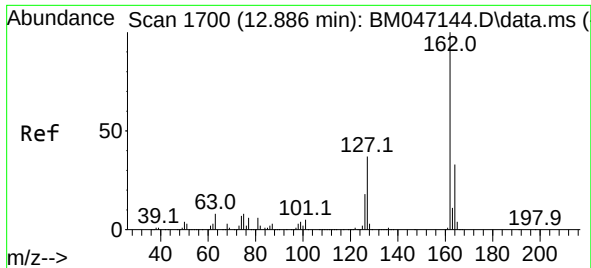
Tgt Ion:172 Resp: 3854602
Ion Ratio Lower Upper
172 100
171 34.5 27.8 41.6
170 23.1 18.7 28.1



#46
1,1'-Biphenyl
Concen: 44.479 ng
RT: 12.833 min Scan# 1691
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:154 Resp: 2518524
Ion Ratio Lower Upper
154 100
153 39.5 19.0 59.0
76 11.2 0.0 31.9

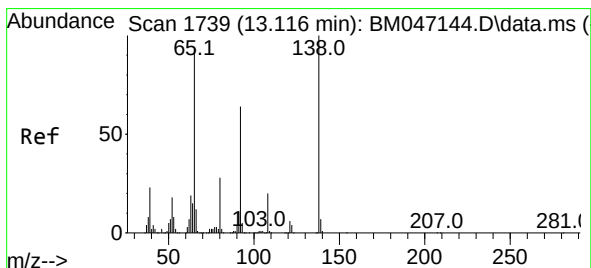
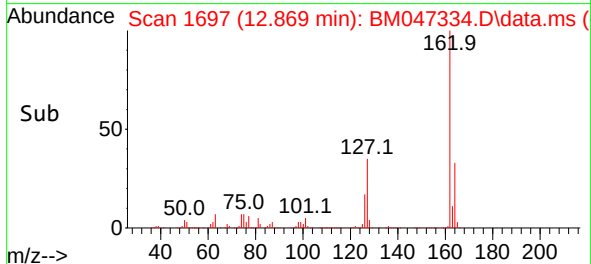
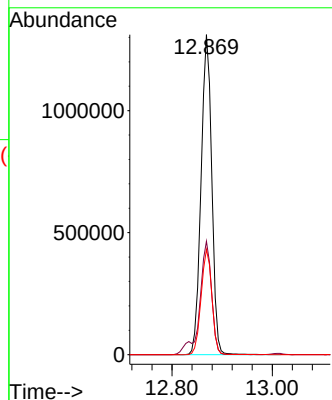
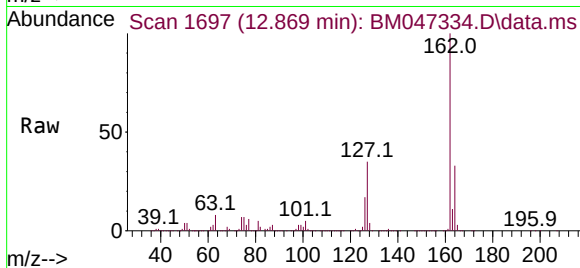




#47
2-Chloronaphthalene
Concen: 43.916 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

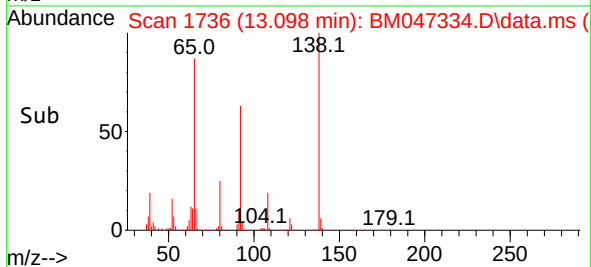
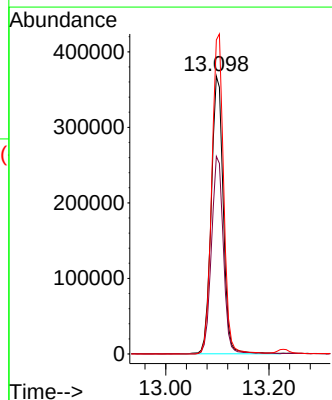
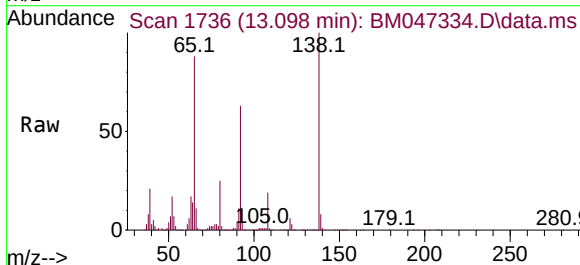
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

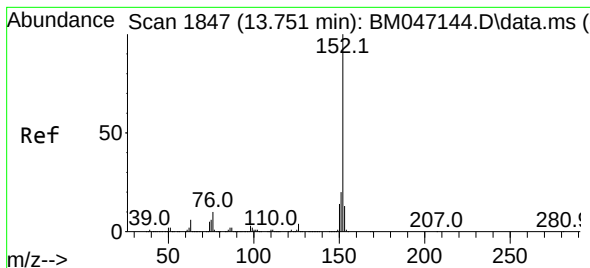
Tgt Ion:162 Resp: 1943555
Ion Ratio Lower Upper
162 100
127 35.5 30.0 45.0
164 32.9 26.3 39.5



#48
2-Nitroaniline
Concen: 42.637 ng
RT: 13.098 min Scan# 1736
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 65 Resp: 591148
Ion Ratio Lower Upper
65 100
92 71.1 55.1 82.7
138 113.1 85.9 128.9





#49

Acenaphthylene

Concen: 47.835 ng

RT: 13.727 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

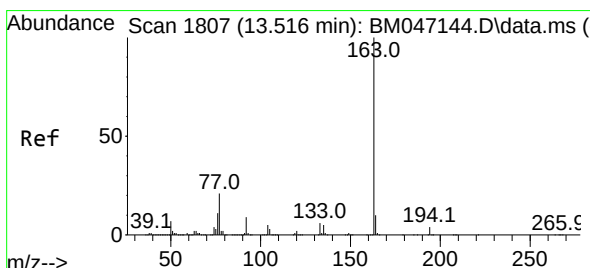
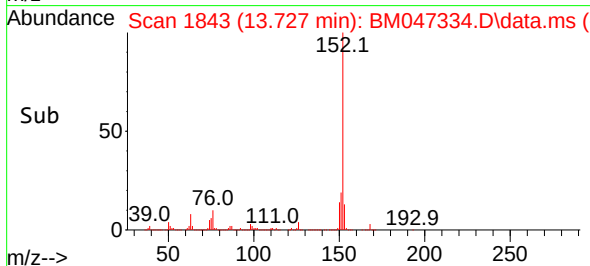
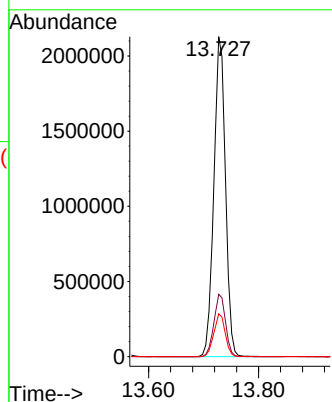
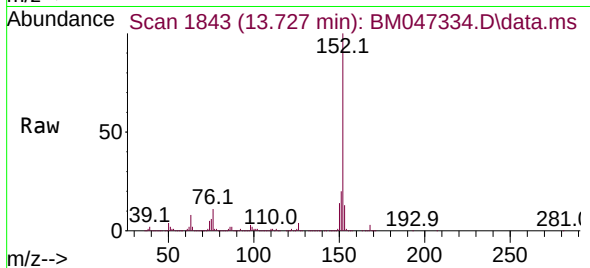
Tgt Ion:152 Resp: 3120558

Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.6

153 13.4 10.4 15.6



#50

Dimethylphthalate

Concen: 45.720 ng

RT: 13.498 min Scan# 1804

Delta R.T. -0.018 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

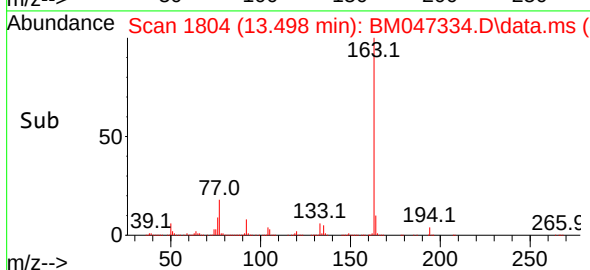
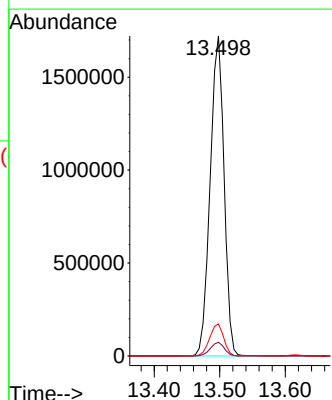
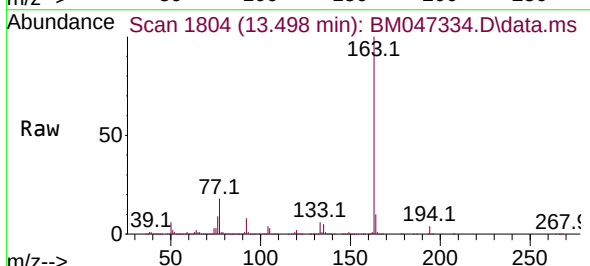
Tgt Ion:163 Resp: 2539667

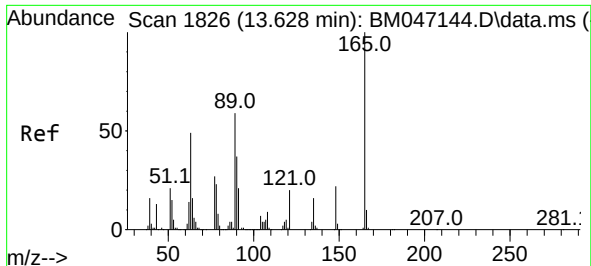
Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

164 10.0 8.0 12.0

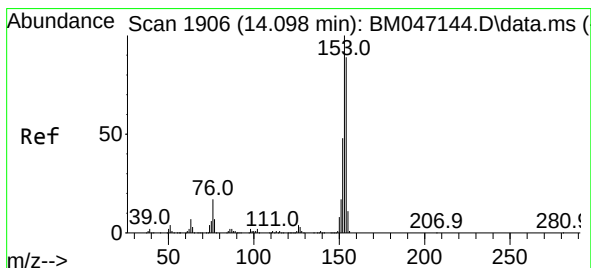
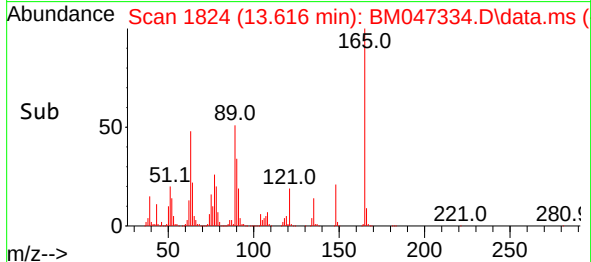
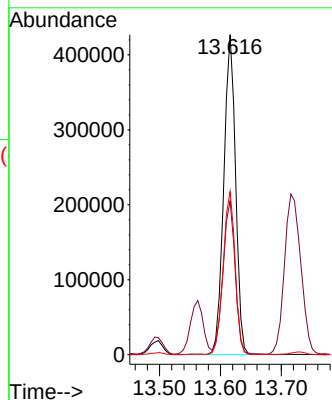
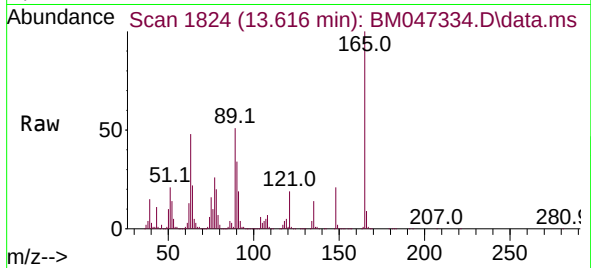




#51
2,6-Dinitrotoluene
Concen: 44.463 ng
RT: 13.616 min Scan# 1824
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

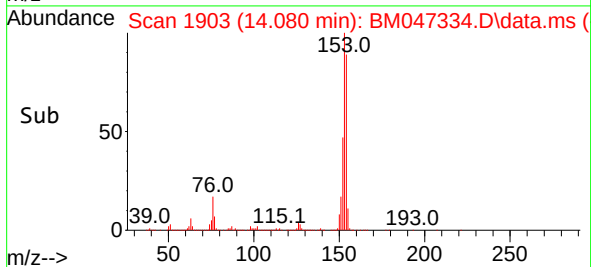
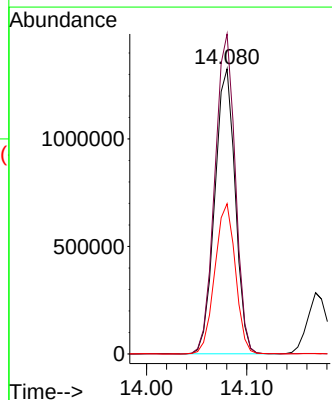
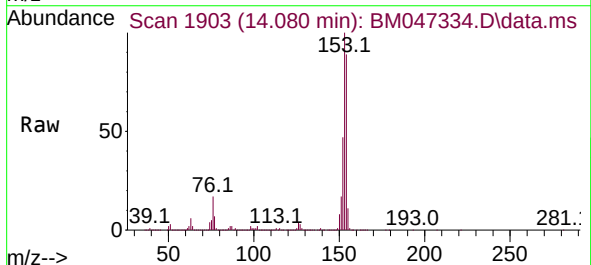
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

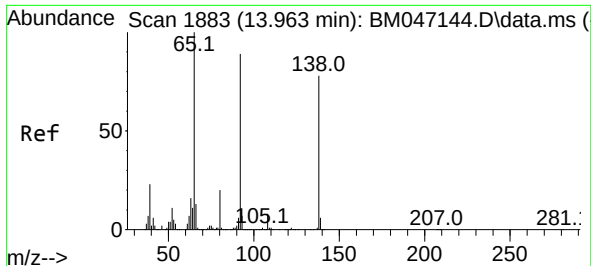
Tgt Ion:165 Resp: 577358
Ion Ratio Lower Upper
165 100
63 48.1 46.5 69.7
89 51.0 47.3 70.9



#52
Acenaphthene
Concen: 45.476 ng
RT: 14.080 min Scan# 1903
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:154 Resp: 1881850
Ion Ratio Lower Upper
154 100
153 112.2 90.3 135.5
152 52.7 42.9 64.3

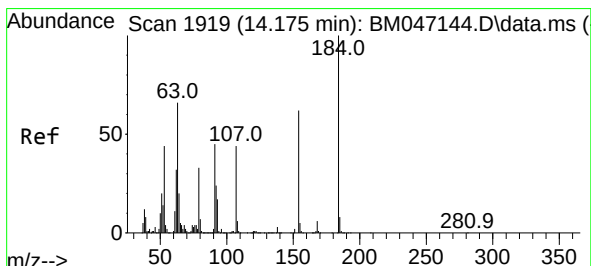
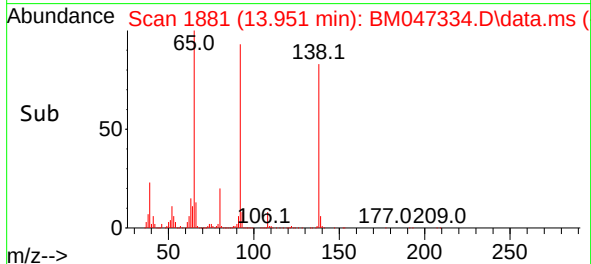
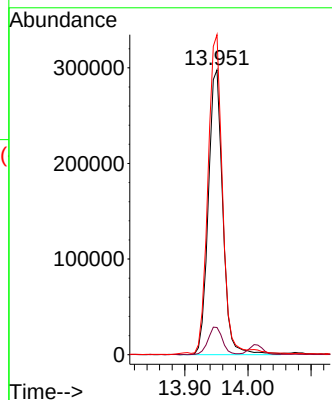
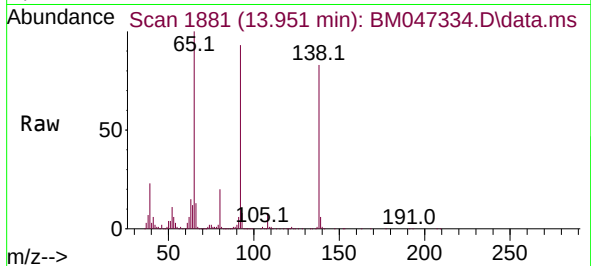




#53
3-Nitroaniline
Concen: 36.511 ng
RT: 13.951 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

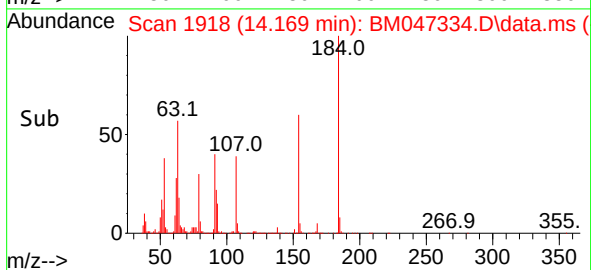
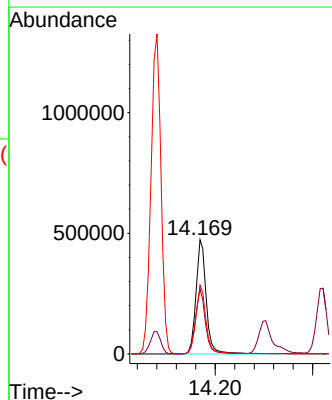
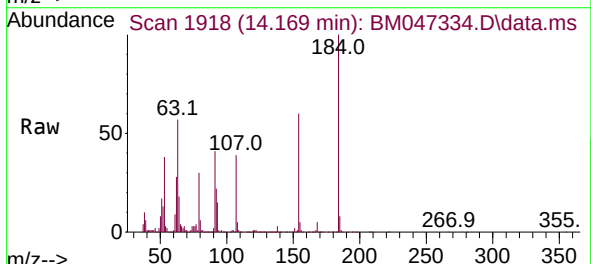
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

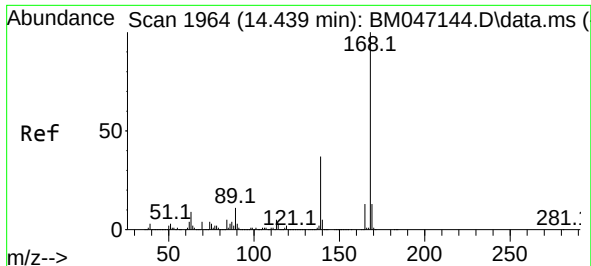
Tgt Ion:138 Resp: 475067
Ion Ratio Lower Upper
138 100
108 9.5 7.9 11.9
92 112.4 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 89.389 ng
RT: 14.169 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:184 Resp: 695683
Ion Ratio Lower Upper
184 100
63 56.9 52.7 79.1
154 60.2 50.4 75.6

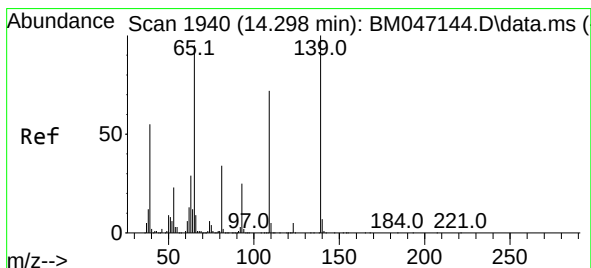
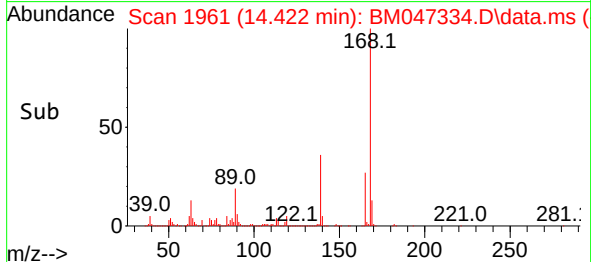
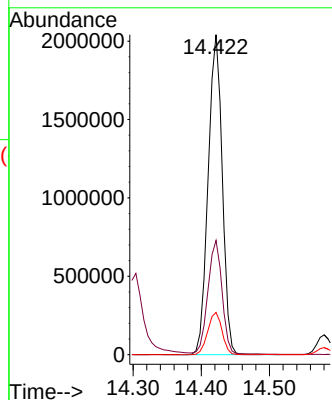
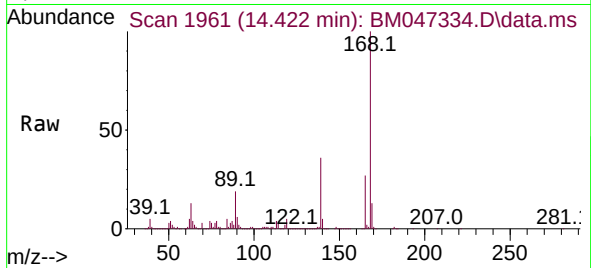




#55
Dibenzenofuran
Concen: 45.011 ng
RT: 14.422 min Scan# 1964
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

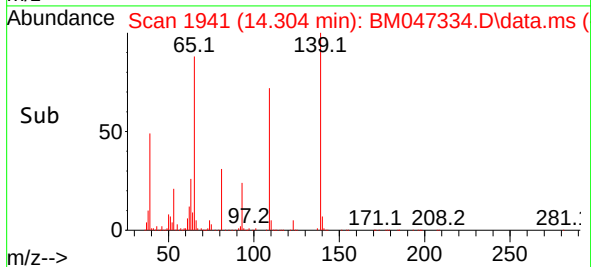
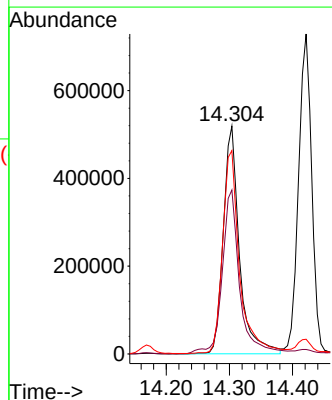
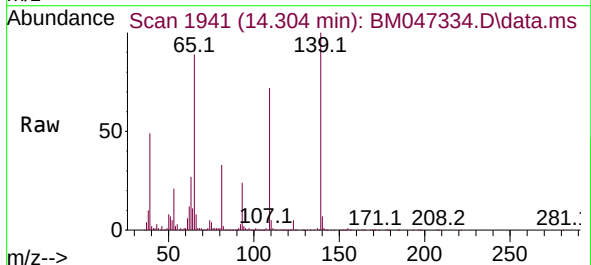
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

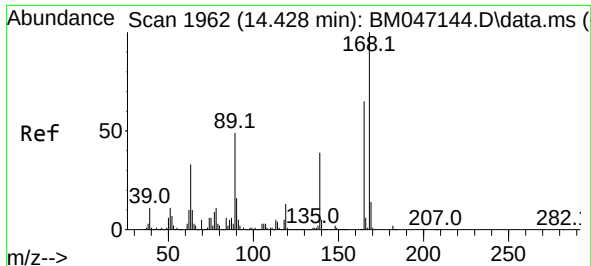
Tgt Ion:168 Resp: 2942034
Ion Ratio Lower Upper
168 100
139 35.7 29.6 44.4
169 13.2 10.7 16.1



#56
4-Nitrophenol
Concen: 82.383 ng
RT: 14.304 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:139 Resp: 924344
Ion Ratio Lower Upper
139 100
109 72.0 52.5 92.5
65 89.3 75.4 115.4

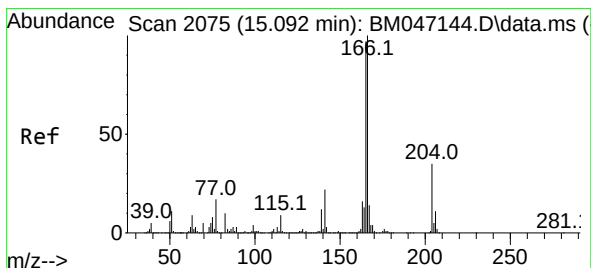
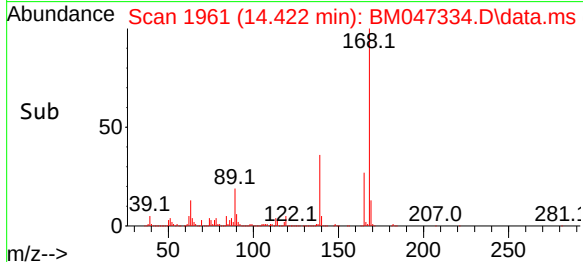
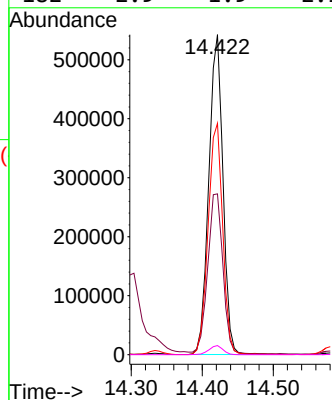
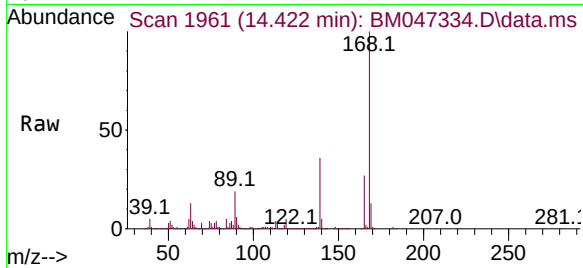




#57
2,4-Dinitrotoluene
Concen: 43.398 ng
RT: 14.422 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

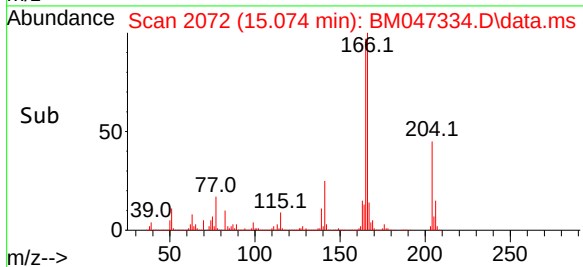
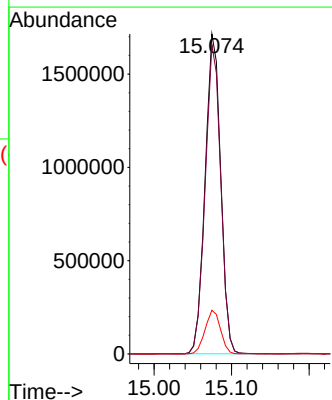
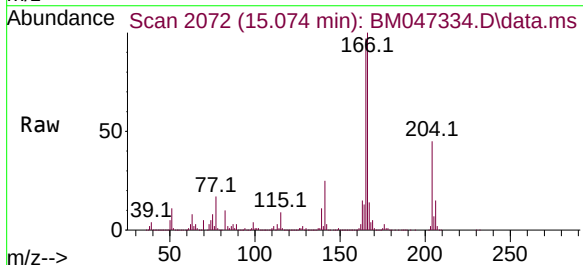
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

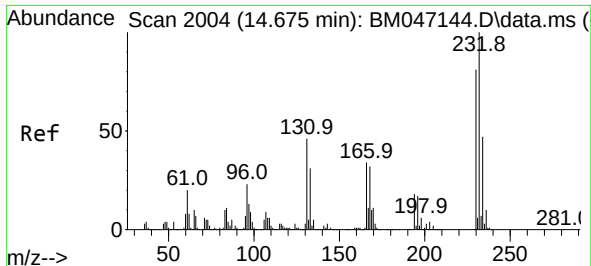
Tgt Ion:	165	Resp:	752187
Ion	Ratio	Lower	Upper
165	100		
63	50.3	40.3	60.5
89	72.3	61.0	91.6
182	2.9	1.9	2.9



#58
Fluorene
Concen: 44.327 ng
RT: 15.074 min Scan# 2072
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:	166	Resp:	2390639
Ion	Ratio	Lower	Upper
166	100		
165	96.7	77.4	116.0
167	13.7	11.0	16.6

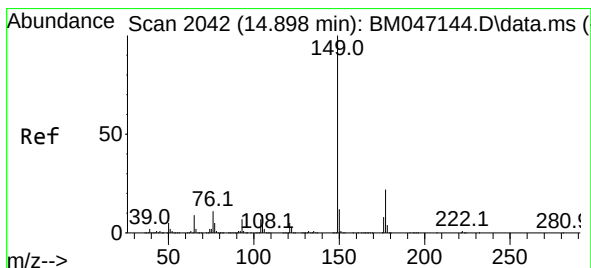
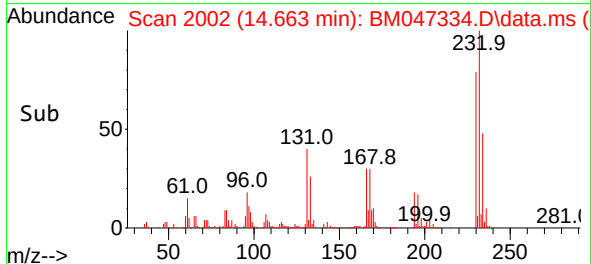
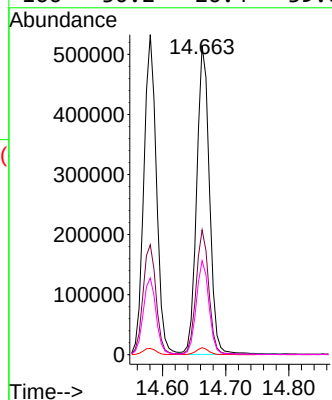
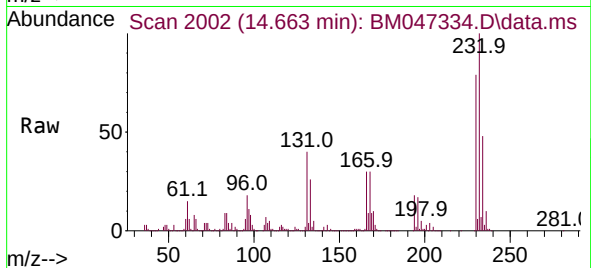




#59
2,3,4,6-Tetrachlorophenol
Concen: 51.247 ng
RT: 14.663 min Scan# 2002
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

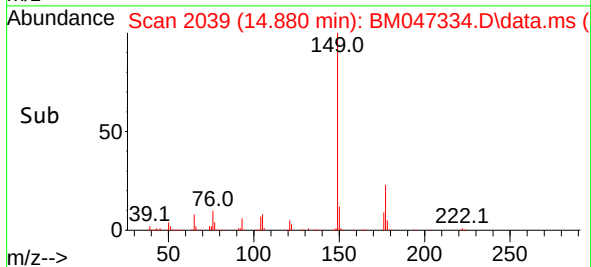
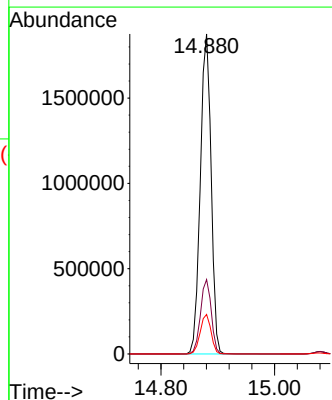
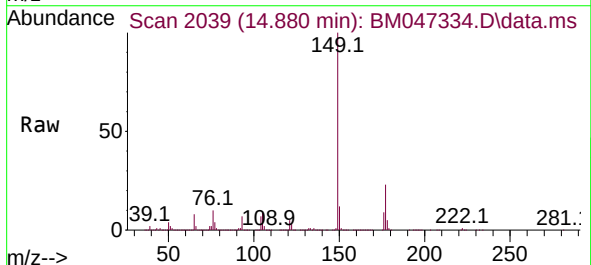
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

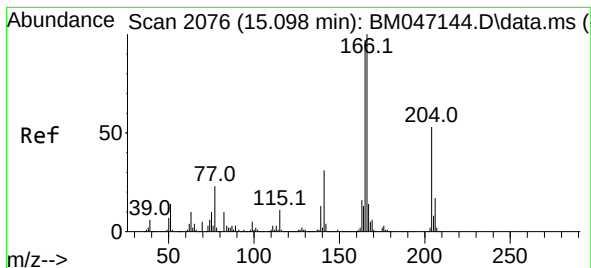
Tgt Ion:232 Resp: 721054
Ion Ratio Lower Upper
232 100
131 40.2 36.9 55.3
130 2.3 2.0 3.0
166 30.2 26.4 39.6



#60
Diethylphthalate
Concen: 43.681 ng
RT: 14.880 min Scan# 2039
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:149 Resp: 2477805
Ion Ratio Lower Upper
149 100
177 23.3 17.6 26.4
150 12.4 9.8 14.6

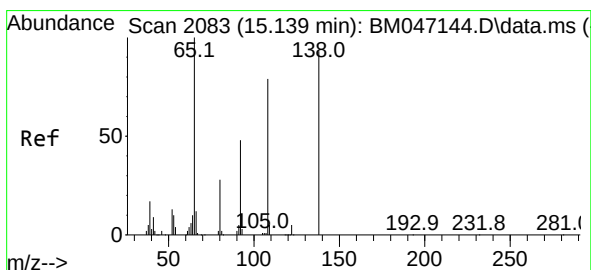
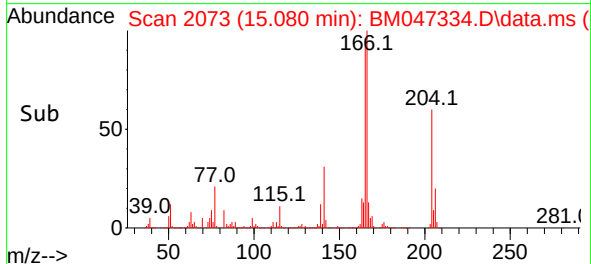
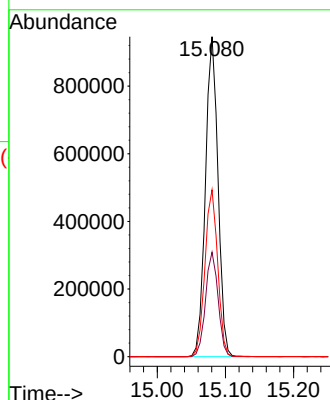
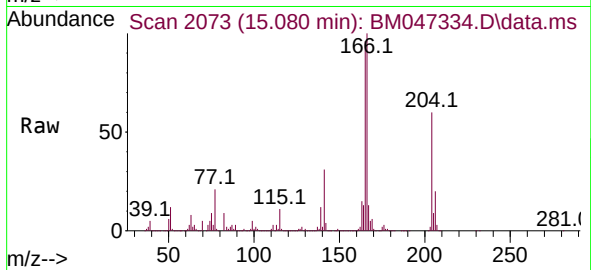




#61
4-Chlorophenyl-phenylether
Concen: 47.247 ng
RT: 15.080 min Scan# 2076
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

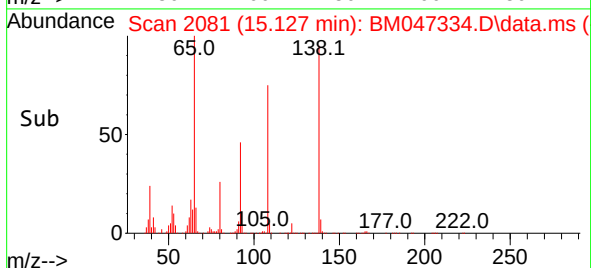
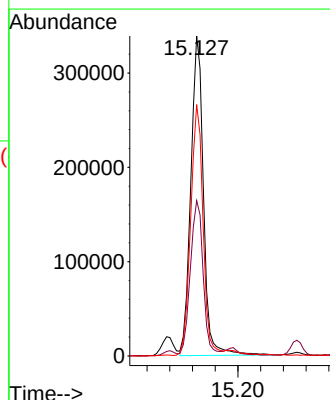
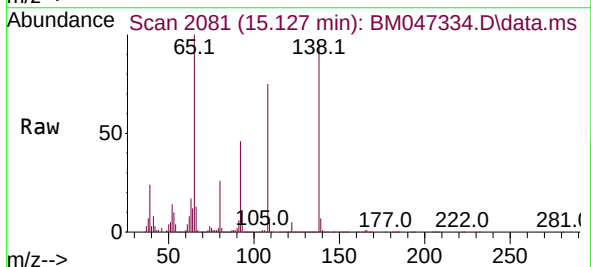
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

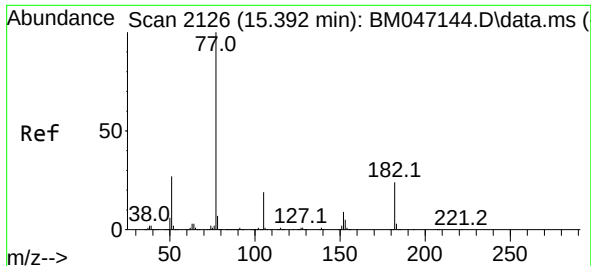
Tgt Ion:204 Resp: 1213097
Ion Ratio Lower Upper
204 100
206 32.7 26.2 39.4
141 52.1 47.2 70.8



#62
4-Nitroaniline
Concen: 40.906 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:138 Resp: 524365
Ion Ratio Lower Upper
138 100
92 48.6 31.9 71.9
108 78.6 63.8 103.8



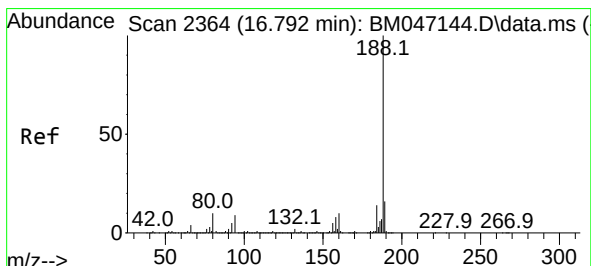
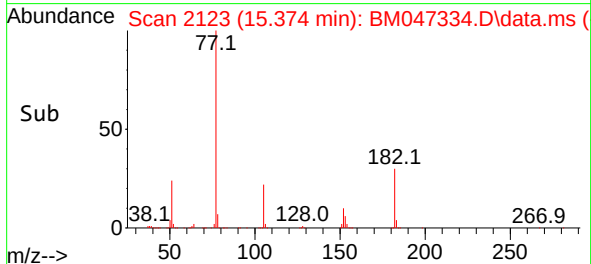
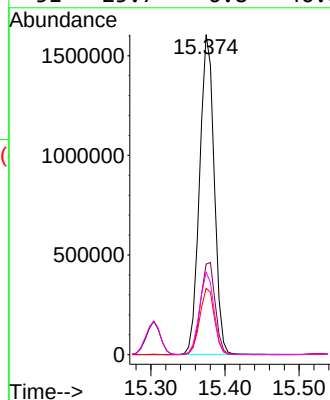
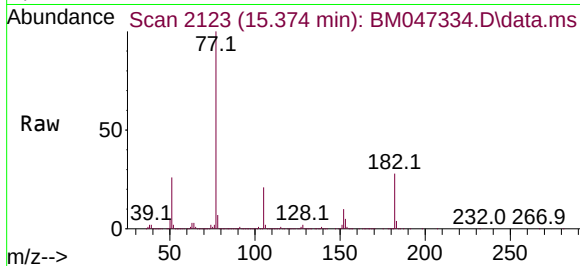


#63
Azobenzene
Concen: 40.747 ng
RT: 15.374 min Scan# 2126
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion: 77 Resp: 2191565

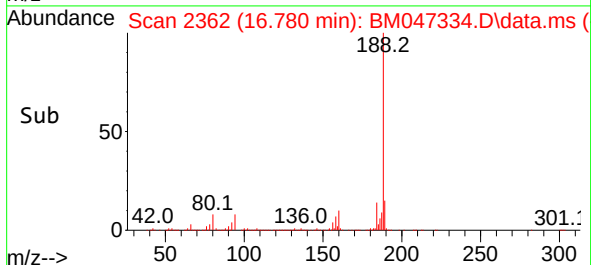
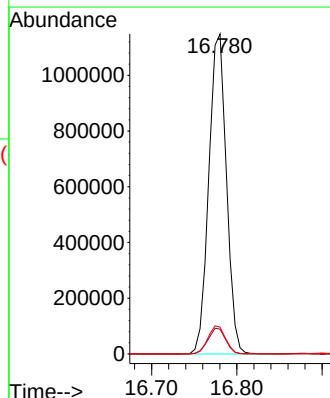
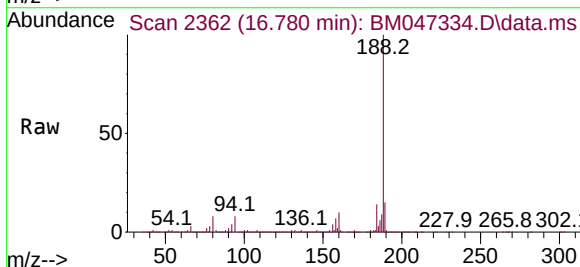
Ion	Ratio	Lower	Upper
77	100		
182	28.3	3.8	43.8
105	20.8	0.0	39.5
51	25.7	6.8	46.8

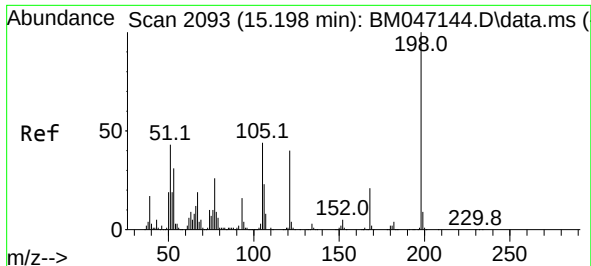


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.780 min Scan# 2362
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion: 188 Resp: 1650914

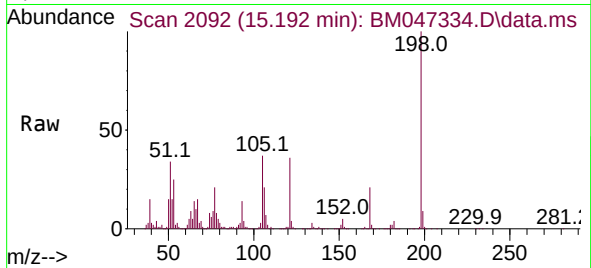
Ion	Ratio	Lower	Upper
188	100		
94	7.7	7.0	10.6
80	8.4	8.0	12.0



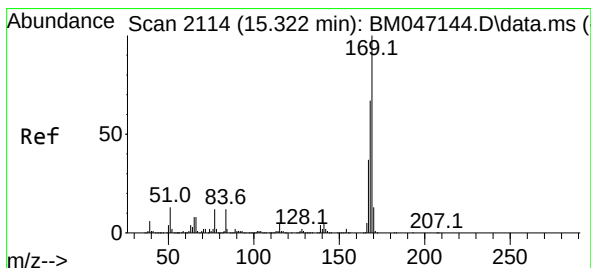
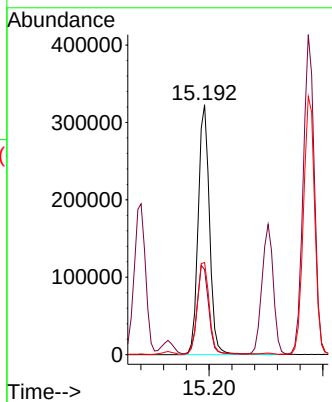
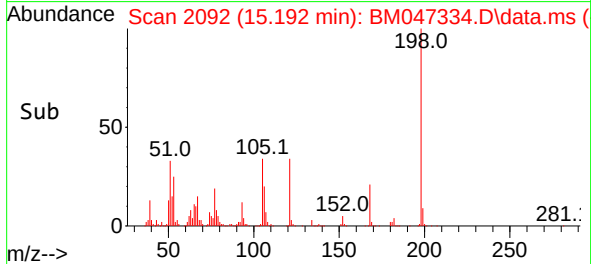


#65
4,6-Dinitro-2-methylphenol
Concen: 46.322 ng
RT: 15.192 min Scan# 2092
Delta R.T. -0.006 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

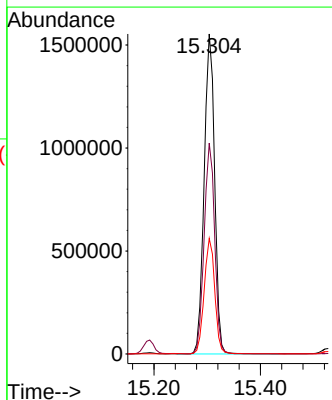
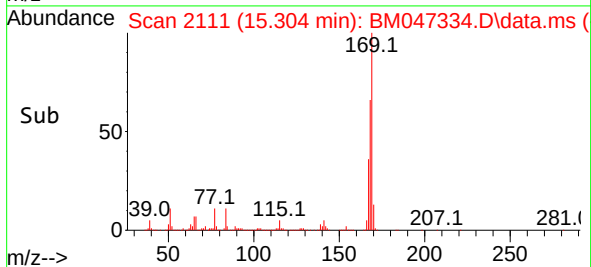
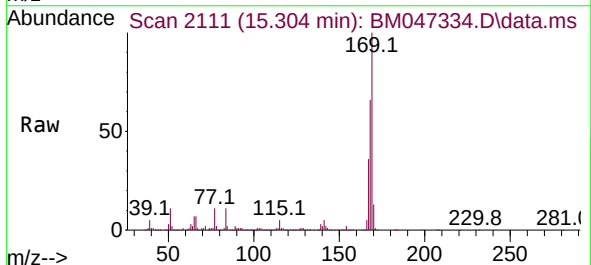


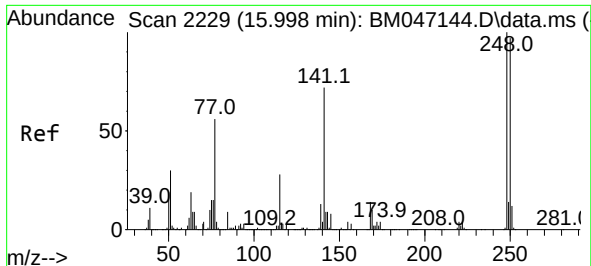
Tgt Ion:198 Resp: 447740
Ion Ratio Lower Upper
198 100
51 34.1 23.9 63.9
105 36.9 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 47.091 ng
RT: 15.304 min Scan# 2111
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:169 Resp: 2117549
Ion Ratio Lower Upper
169 100
168 65.9 53.8 80.8
167 36.1 29.3 43.9

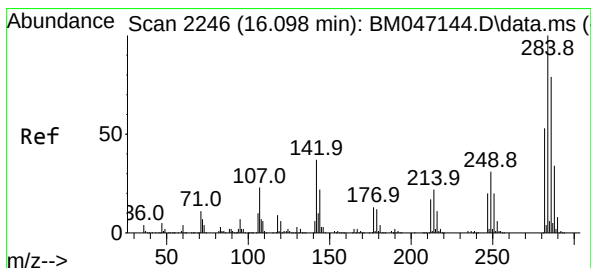
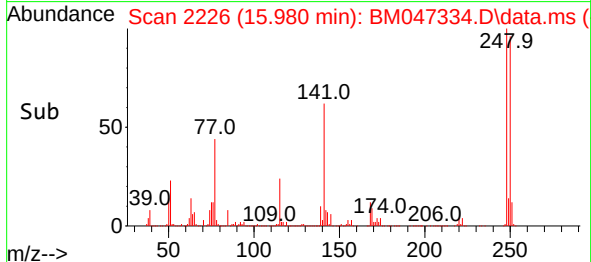
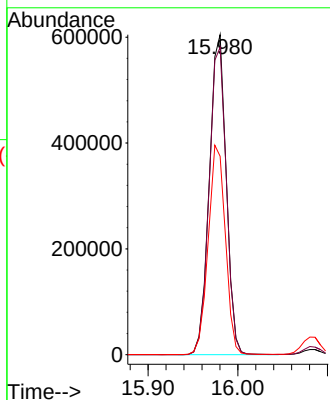
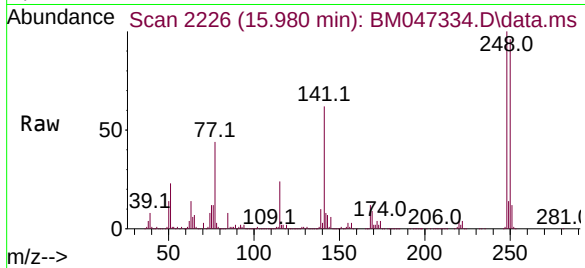




#67
4-Bromophenyl-phenylether
Concen: 49.672 ng
RT: 15.980 min Scan# 211
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

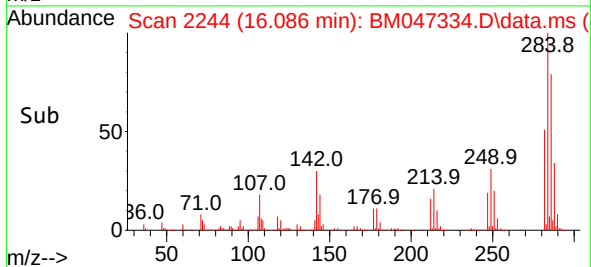
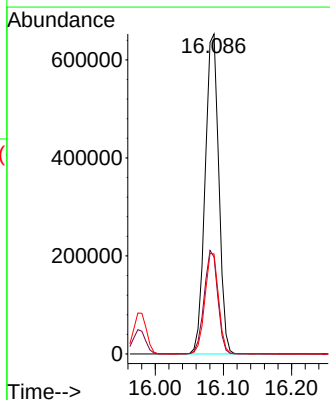
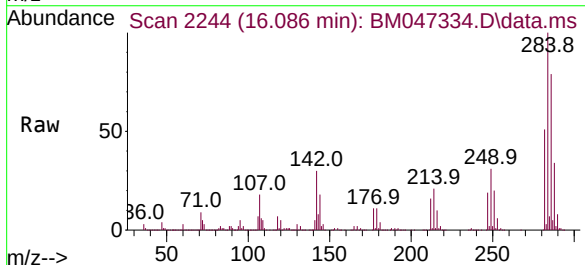
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

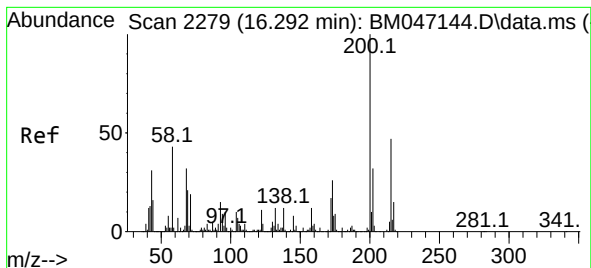
Tgt Ion:248 Resp: 790211
Ion Ratio Lower Upper
248 100
250 96.1 77.8 116.8
141 62.0 57.7 86.5



#68
Hexachlorobenzene
Concen: 47.839 ng
RT: 16.086 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:284 Resp: 911471
Ion Ratio Lower Upper
284 100
142 30.3 29.4 44.0
249 31.3 25.1 37.7





#69

Atrazine

Concen: 59.398 ng

RT: 16.280 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

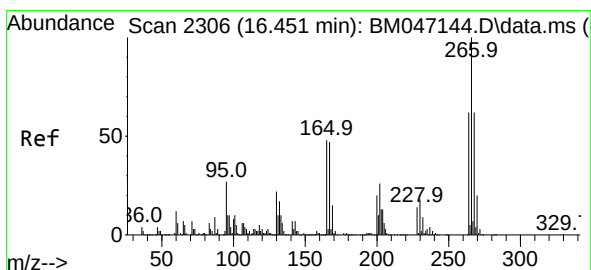
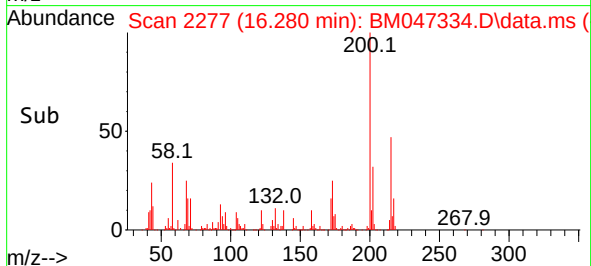
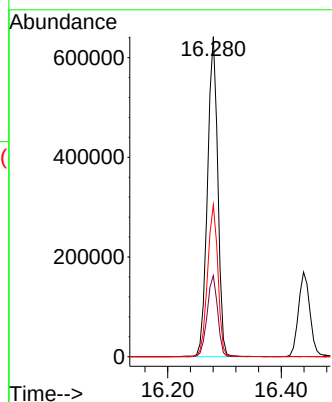
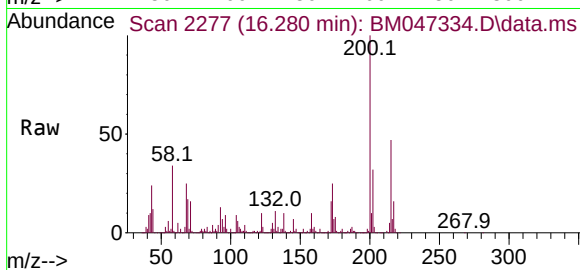
Tgt Ion:200 Resp: 803737

Ion Ratio Lower Upper

200 100

173 25.3 6.1 46.1

215 47.5 26.8 66.8



#70

Pentachlorophenol

Concen: 91.351 ng

RT: 16.439 min Scan# 2304

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

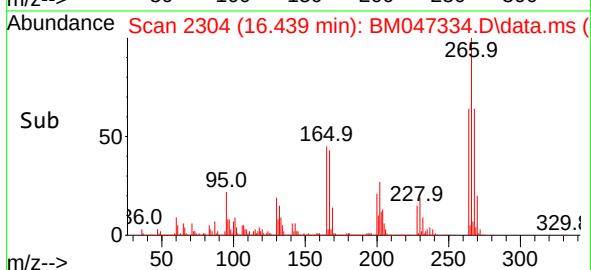
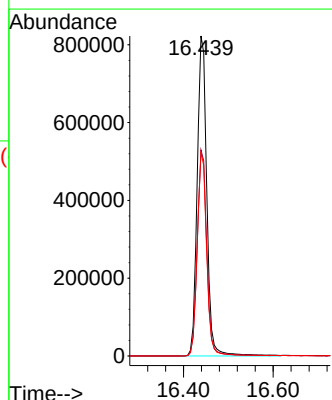
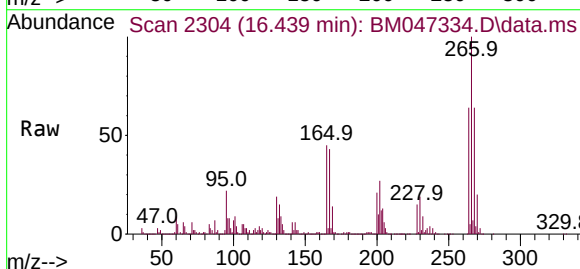
Tgt Ion:266 Resp: 1220059

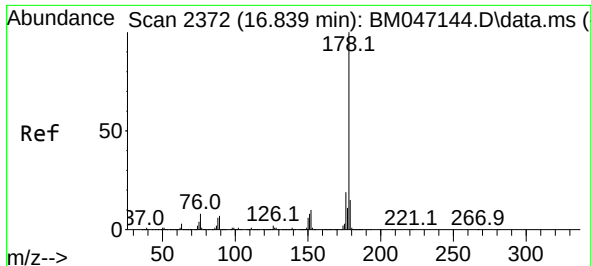
Ion Ratio Lower Upper

266 100

268 64.4 49.8 74.6

264 63.7 49.6 74.4

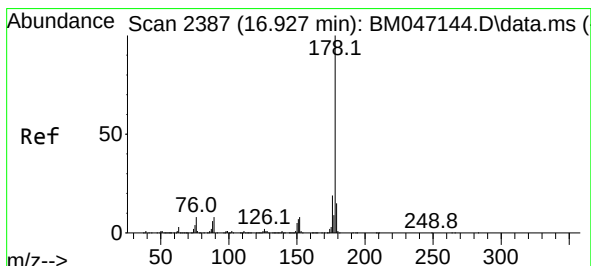
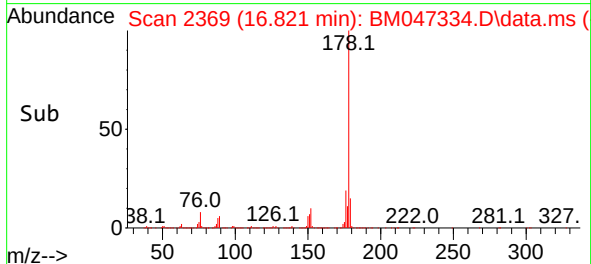
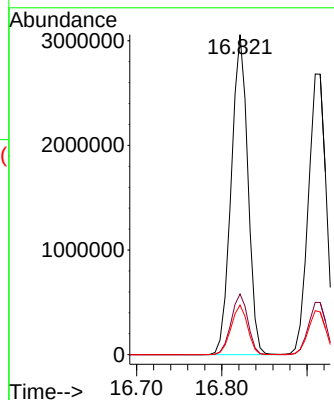
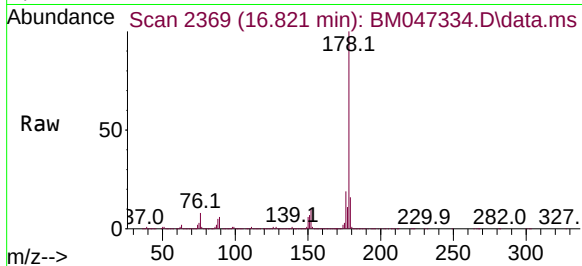




#71
Phenanthrene
Concen: 49.941 ng
RT: 16.821 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

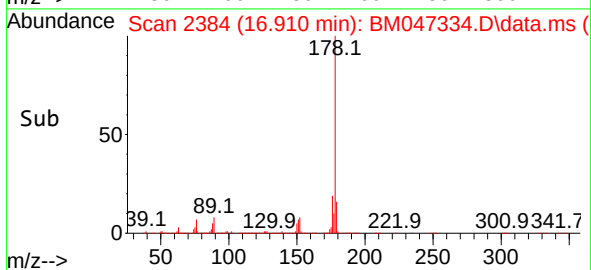
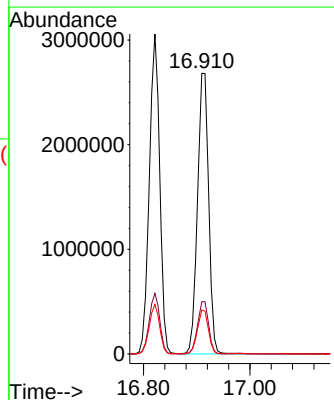
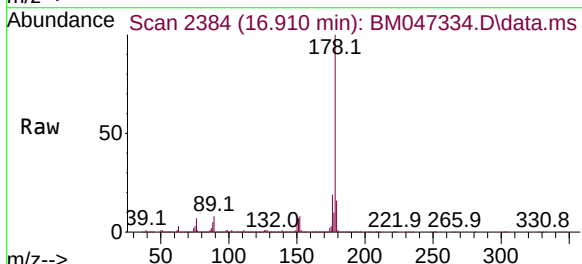
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

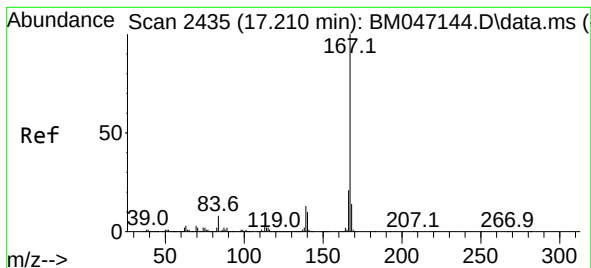
Tgt Ion:178 Resp: 4137731
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.5 12.4 18.6



#72
Anthracene
Concen: 48.494 ng
RT: 16.910 min Scan# 2384
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:178 Resp: 3909445
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.7 12.4 18.6





#73

Carbazole

Concen: 43.524 ng

RT: 17.198 min Scan# 2435

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

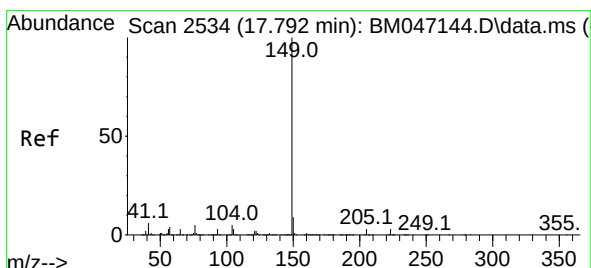
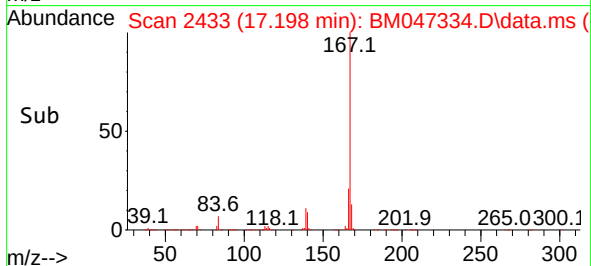
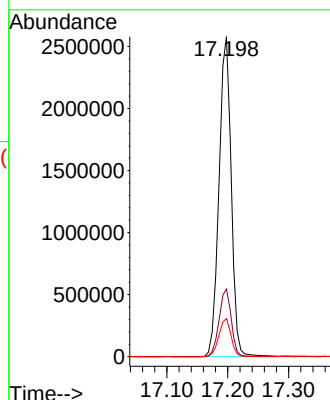
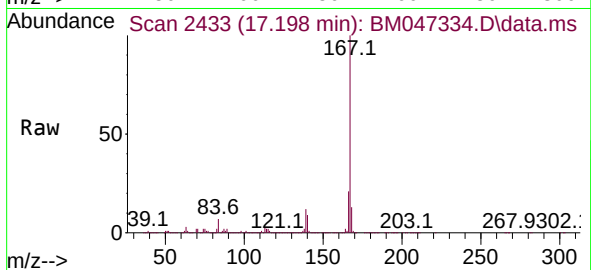
Tgt Ion:167 Resp: 3582569

Ion Ratio Lower Upper

167 100

166 21.2 17.1 25.7

139 11.9 10.0 15.0



#74

Di-n-butylphthalate

Concen: 46.602 ng

RT: 17.774 min Scan# 2531

Delta R.T. -0.018 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

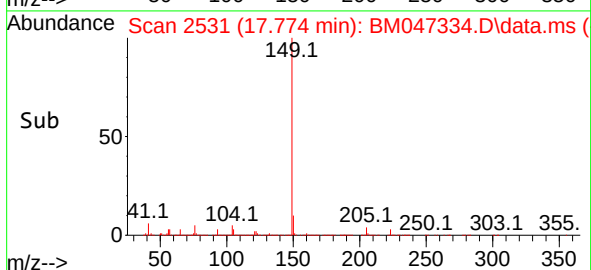
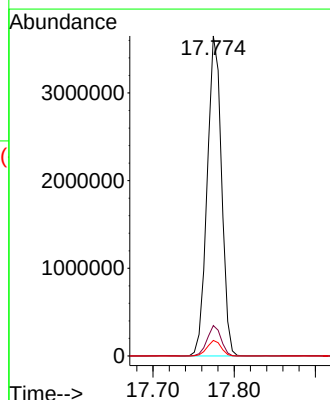
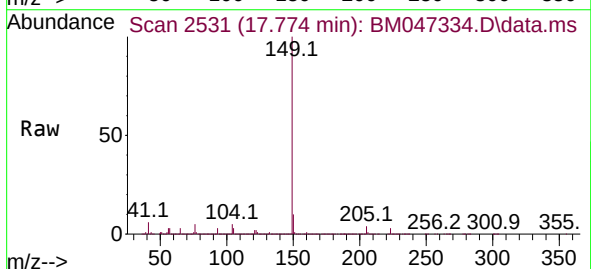
Tgt Ion:149 Resp: 4463355

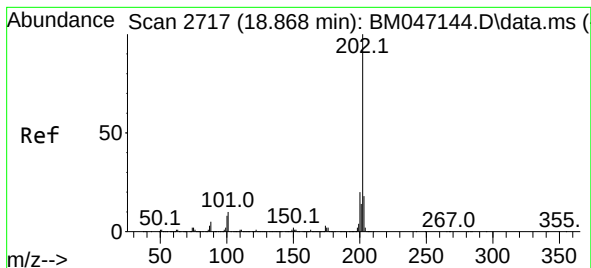
Ion Ratio Lower Upper

149 100

150 9.5 7.5 11.3

104 4.8 4.1 6.1





#75

Fluoranthene

Concen: 50.790 ng

RT: 18.857 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

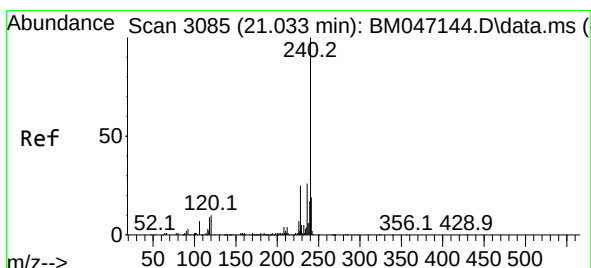
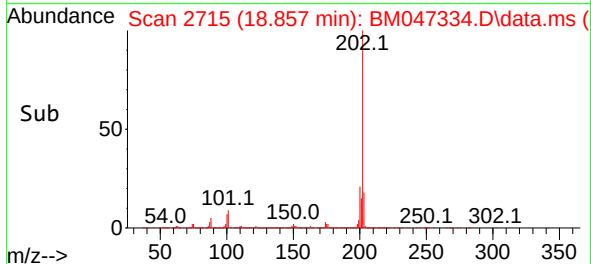
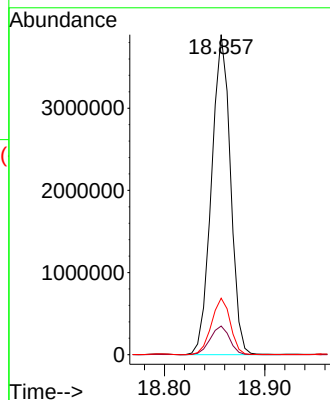
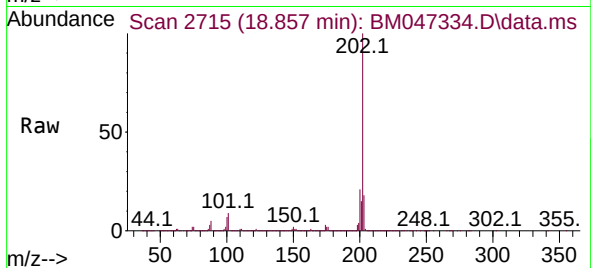
Tgt Ion:202 Resp: 5118445

Ion Ratio Lower Upper

202 100

101 8.9 0.0 30.2

203 17.7 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.021 min Scan# 3083

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

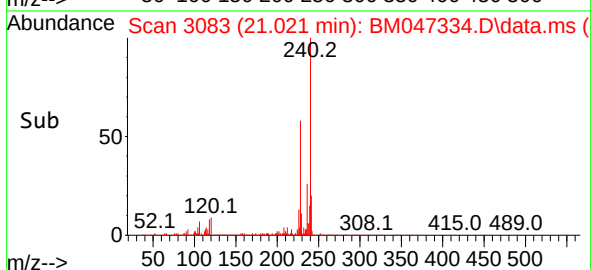
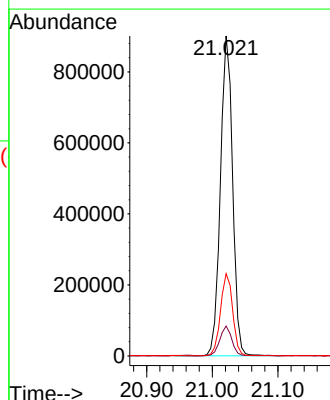
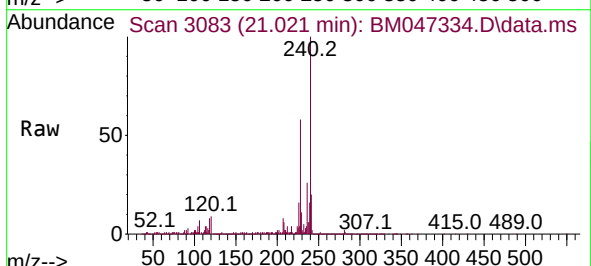
Tgt Ion:240 Resp: 1153613

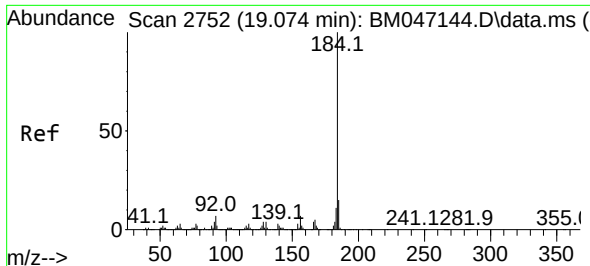
Ion Ratio Lower Upper

240 100

120 9.3 8.2 12.2

236 25.7 20.6 30.8

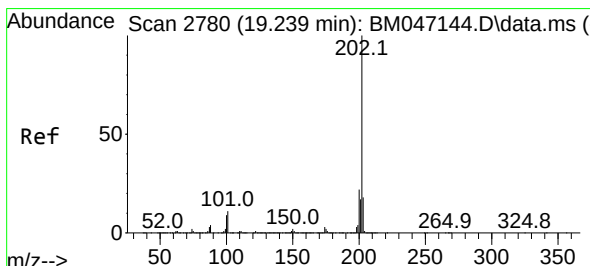
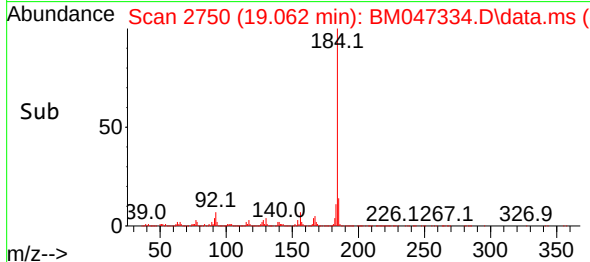
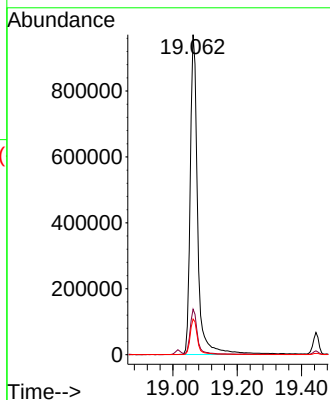
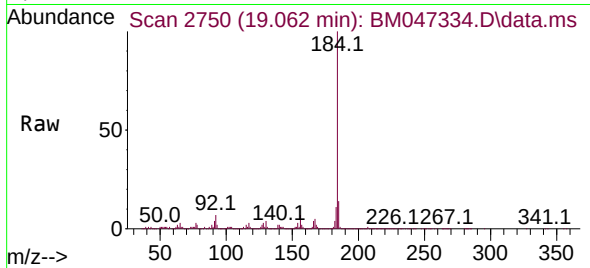




#77
Benzidine
Concen: 79.921 ng
RT: 19.062 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

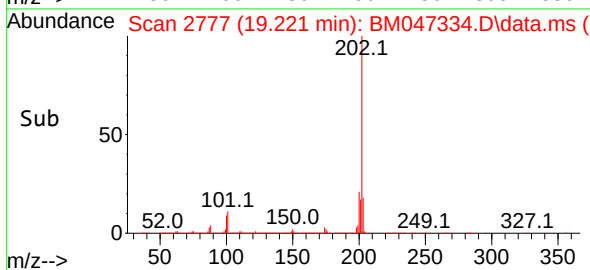
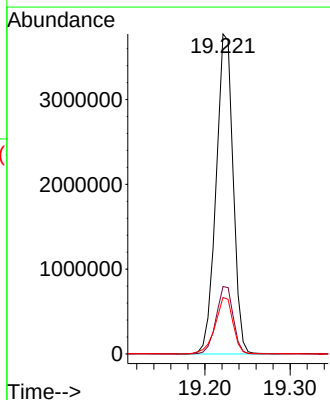
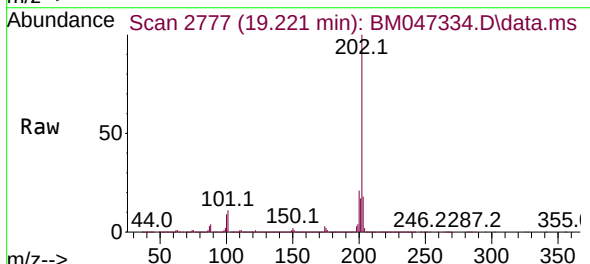
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

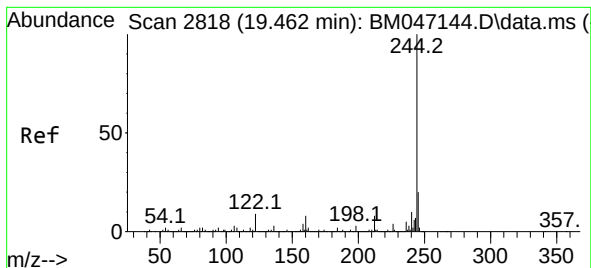
Tgt Ion:184 Resp: 1563528
Ion Ratio Lower Upper
184 100
185 14.2 11.8 17.6
183 11.2 9.0 13.6



#78
Pyrene
Concen: 63.547 ng
RT: 19.221 min Scan# 2777
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:202 Resp: 5234439
Ion Ratio Lower Upper
202 100
200 21.1 17.2 25.8
203 17.6 14.2 21.2





#79

Terphenyl-d14

Concen: 98.969 ng

RT: 19.445 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047334.D

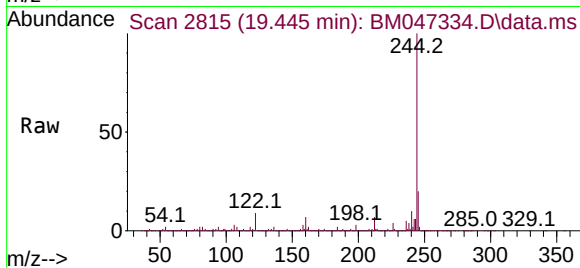
Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD



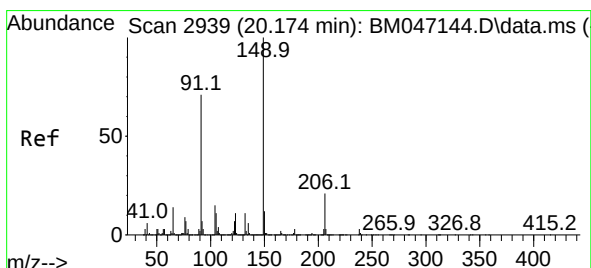
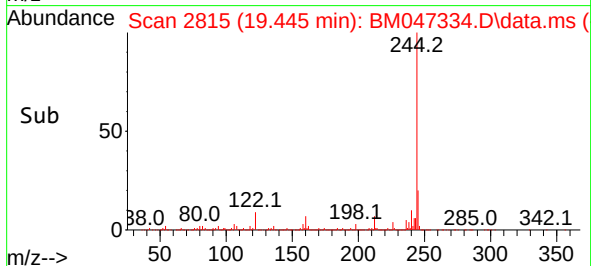
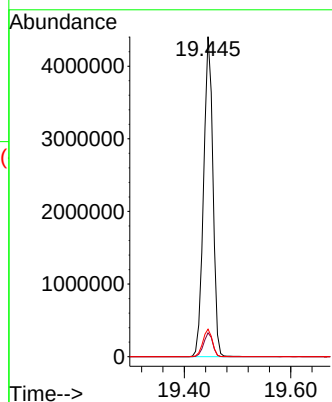
Tgt Ion:244 Resp: 5328258

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.4

122 8.6 7.1 10.7



#80

Butylbenzylphthalate

Concen: 55.943 ng

RT: 20.162 min Scan# 2937

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

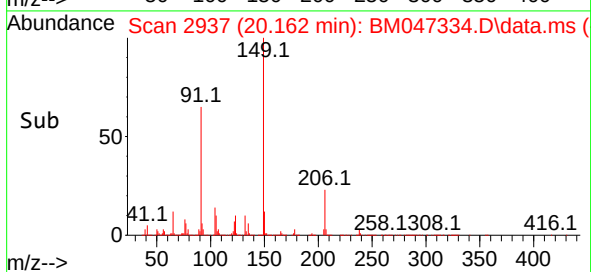
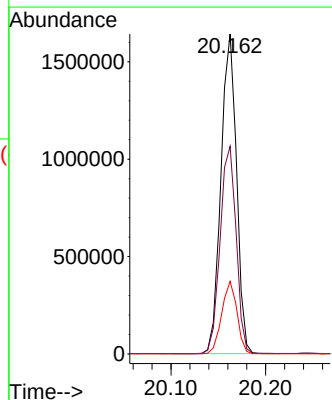
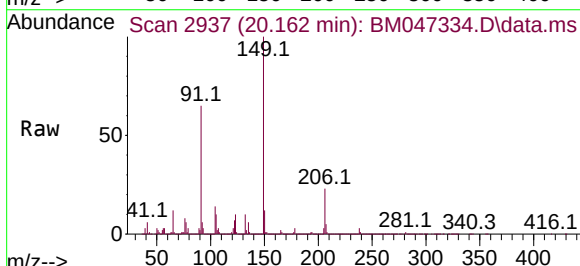
Tgt Ion:149 Resp: 1880565

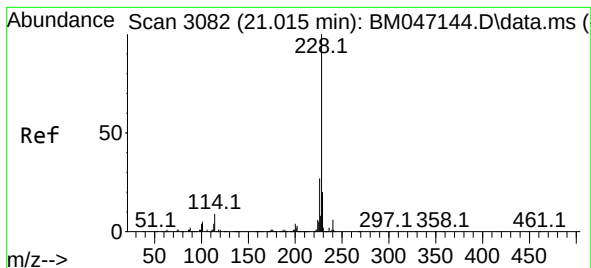
Ion Ratio Lower Upper

149 100

91 64.9 57.0 85.4

206 22.7 16.4 24.6





#81

Benzo(a)anthracene

Concen: 51.834 ng

RT: 21.003 min Scan# 3082

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

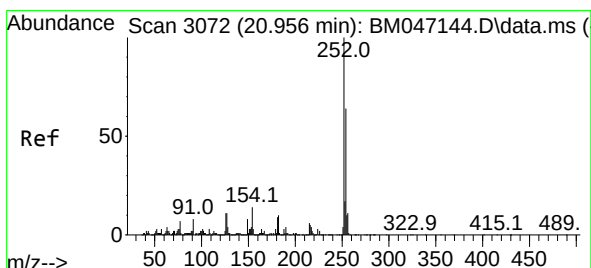
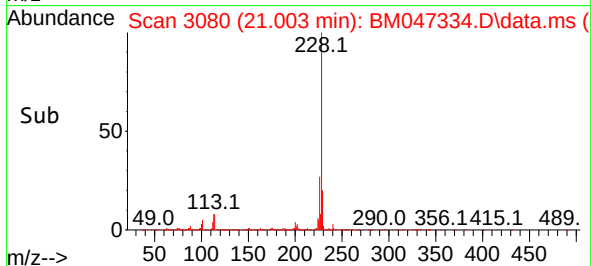
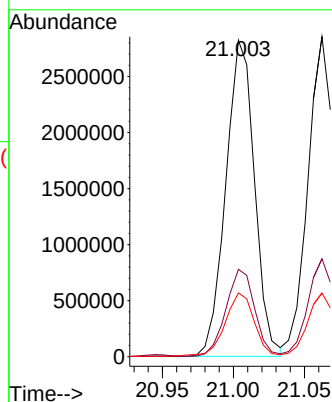
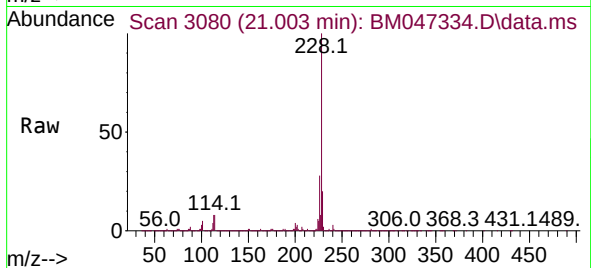
Tgt Ion:228 Resp: 3969599

Ion Ratio Lower Upper

228 100

226 27.6 21.8 32.6

229 20.1 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 52.811 ng

RT: 20.945 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

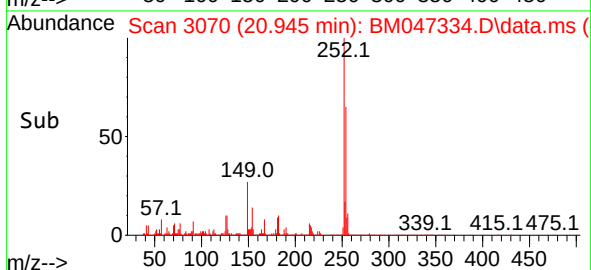
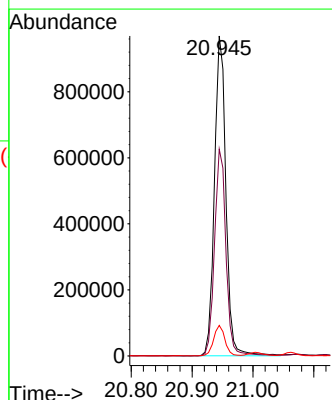
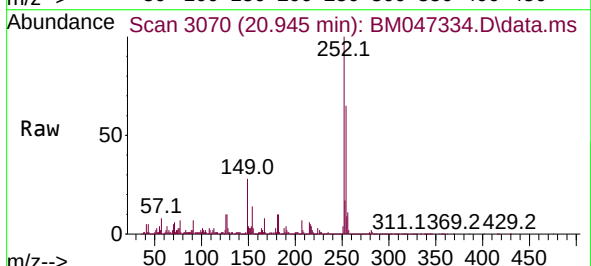
Tgt Ion:252 Resp: 1265436

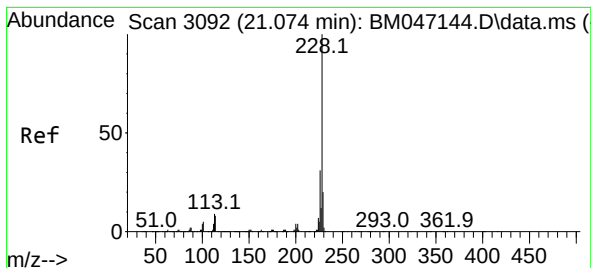
Ion Ratio Lower Upper

252 100

254 64.7 51.0 76.6

126 9.6 8.5 12.7





#83

Chrysene

Concen: 50.315 ng

RT: 21.062 min Scan# 3092

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

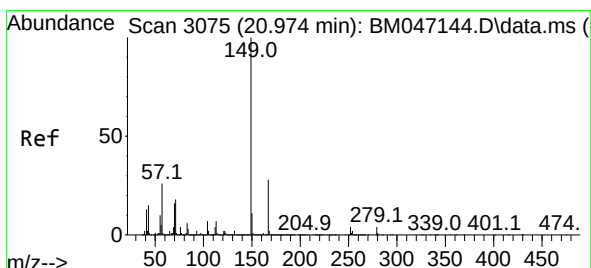
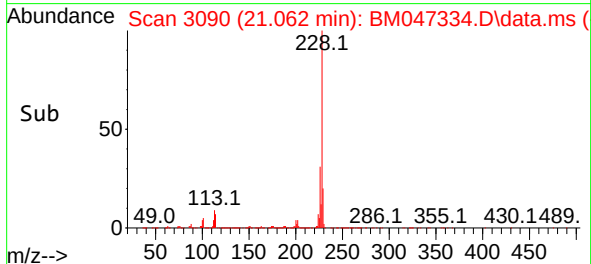
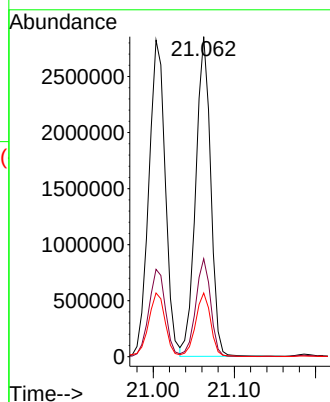
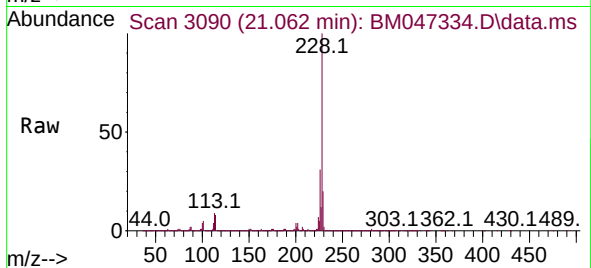
Tgt Ion:228 Resp: 3655867

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.9 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 54.274 ng

RT: 20.962 min Scan# 3073

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

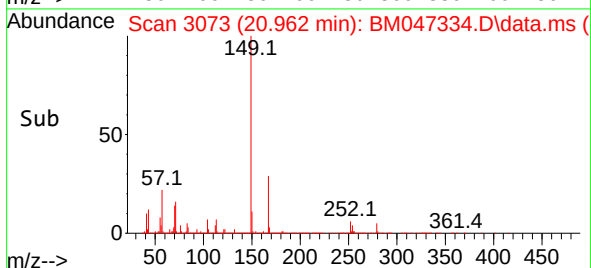
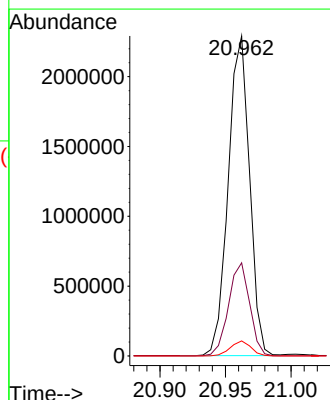
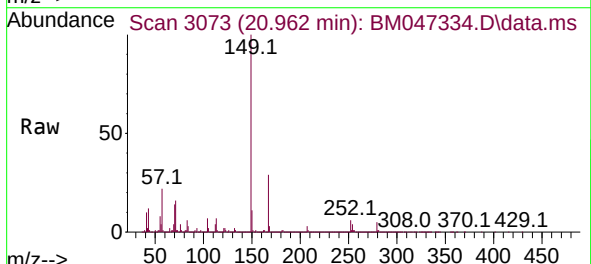
Tgt Ion:149 Resp: 2587409

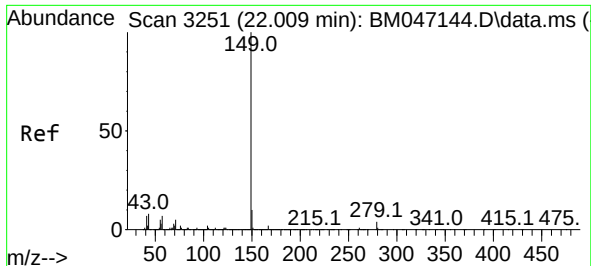
Ion Ratio Lower Upper

149 100

167 29.1 22.2 33.2

279 4.7 3.0 4.4#

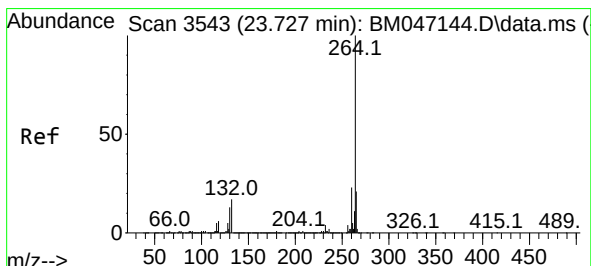
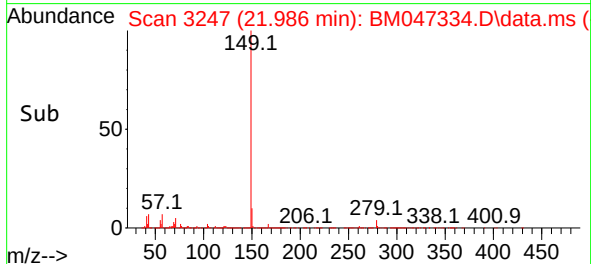
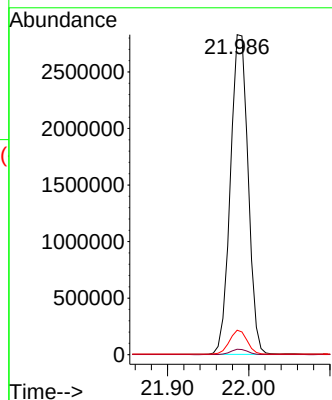
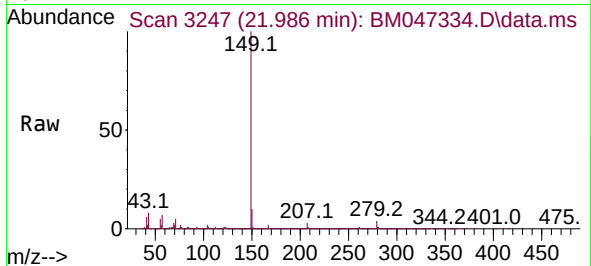




#85
Di-n-octyl phthalate
Concen: 52.811 ng
RT: 21.986 min Scan# 31
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

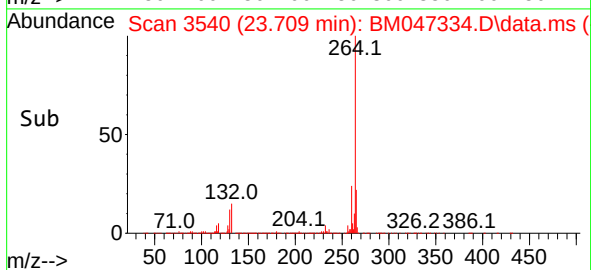
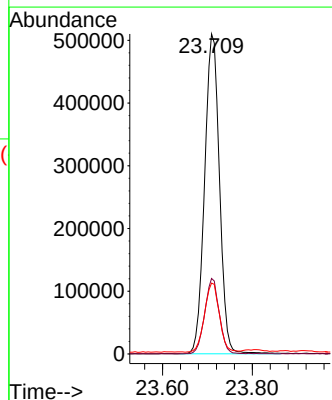
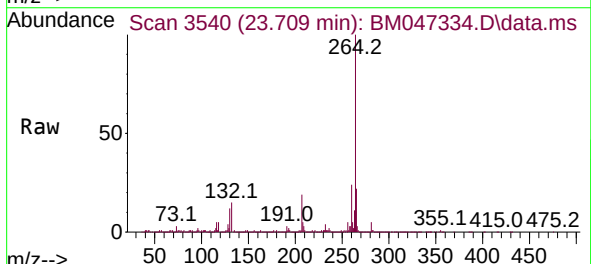
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

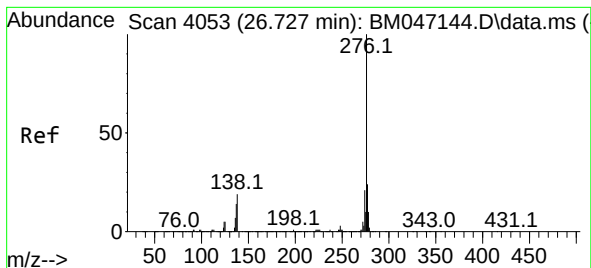
Tgt Ion:149 Resp: 4279233
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 7.3 6.9 10.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.709 min Scan# 3540
Delta R.T. -0.018 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:264 Resp: 1171246
Ion Ratio Lower Upper
264 100
260 23.6 18.5 27.7
265 22.2 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 51.203 ng

RT: 26.709 min Scan# 4053

Delta R.T. -0.018 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

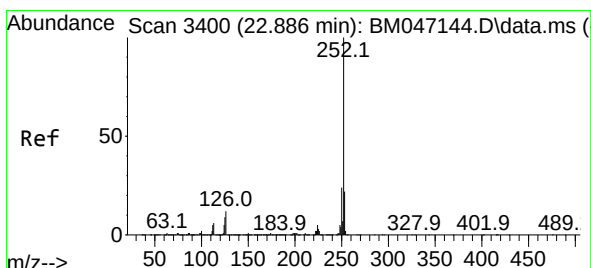
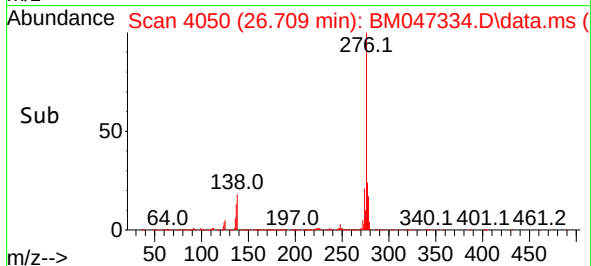
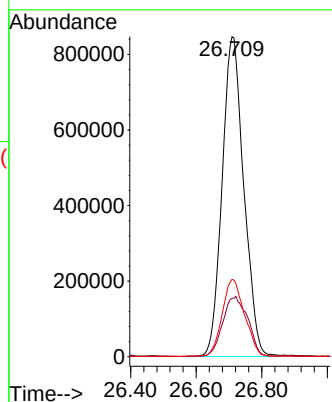
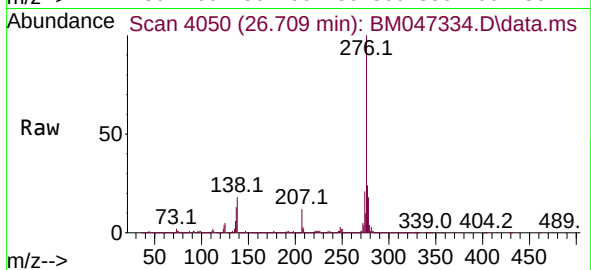
Tgt Ion:276 Resp: 3876403

Ion Ratio Lower Upper

276 100

138 21.8 19.4 29.0

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 51.584 ng

RT: 22.874 min Scan# 3398

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

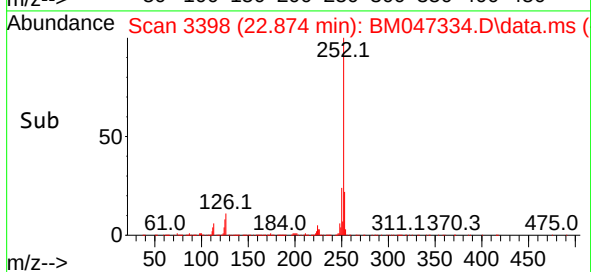
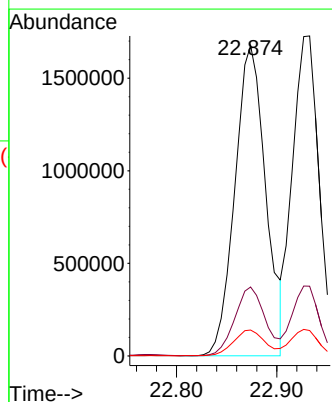
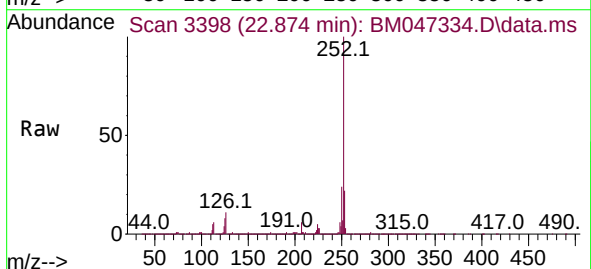
Tgt Ion:252 Resp: 3587949

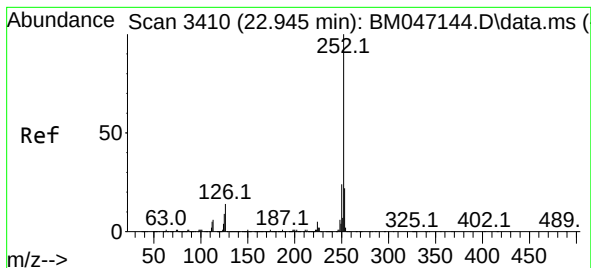
Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.6

125 8.4 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 48.556 ng

RT: 22.933 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

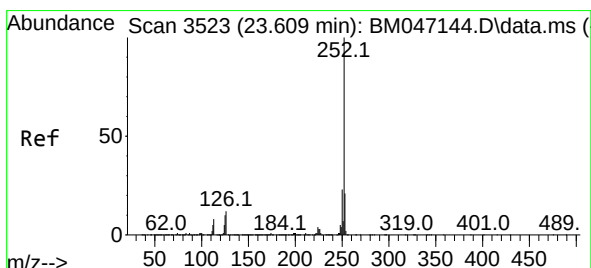
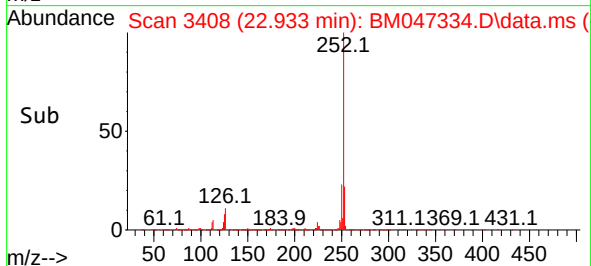
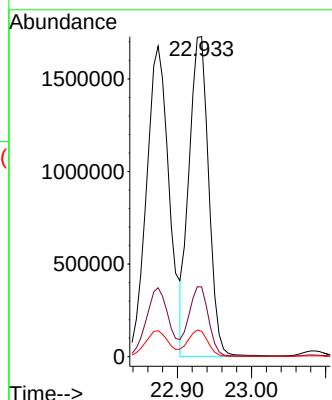
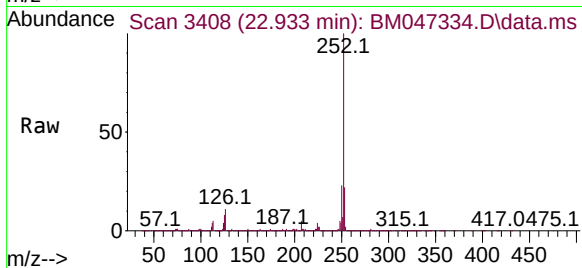
Tgt Ion:252 Resp: 3190038

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 7.9 7.4 11.2



#90

Benzo(a)pyrene

Concen: 53.520 ng

RT: 23.592 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047334.D

Acq: 23 Aug 2024 15:28

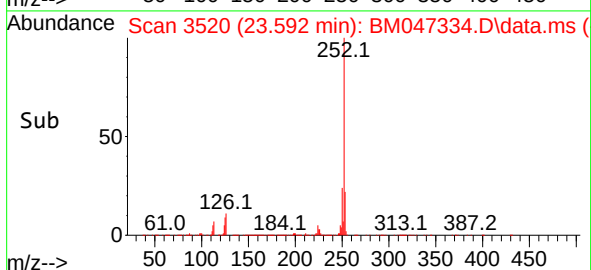
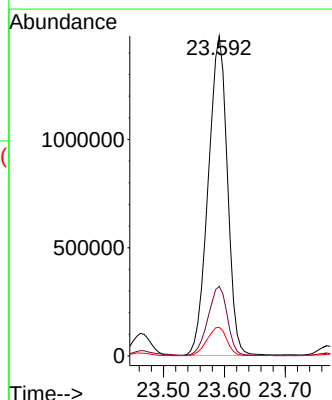
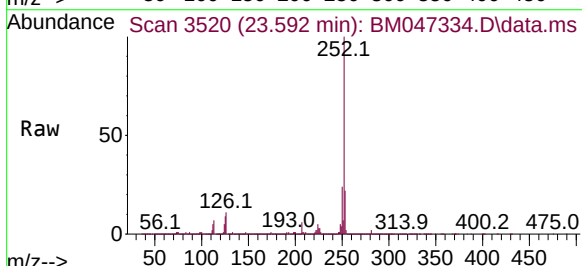
Tgt Ion:252 Resp: 3224776

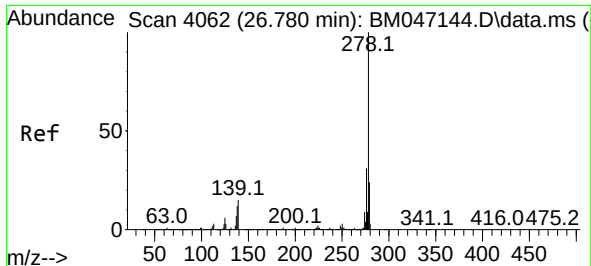
Ion Ratio Lower Upper

252 100

253 21.8 17.1 25.7

125 8.9 8.2 12.2

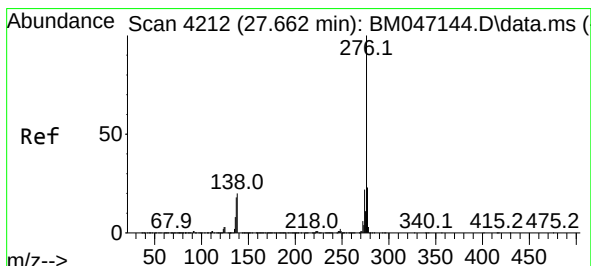
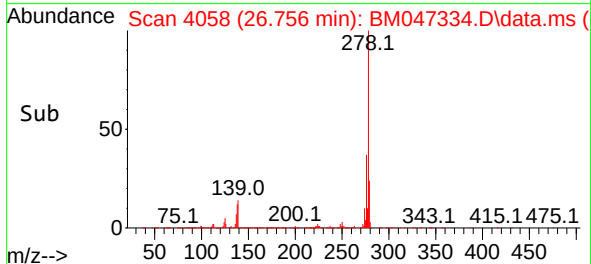
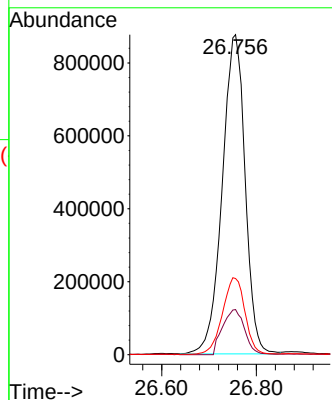
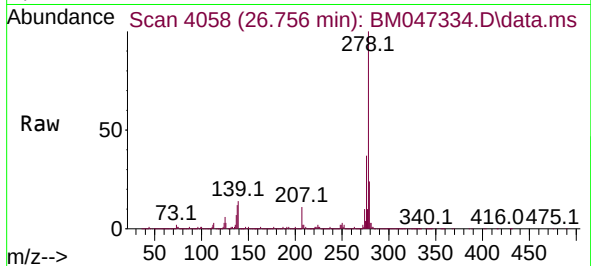




#91
Dibenzo(a,h)anthracene
Concen: 47.905 ng
RT: 26.756 min Scan# 4062
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:278 Resp: 2935009
Ion Ratio Lower Upper
278 100
139 14.1 12.0 18.0
279 23.8 19.2 28.8



#92
Benzo(g,h,i)perylene
Concen: 48.408 ng
RT: 27.638 min Scan# 4208
Delta R.T. -0.024 min
Lab File: BM047334.D
Acq: 23 Aug 2024 15:28

Tgt Ion:276 Resp: 3079259
Ion Ratio Lower Upper
276 100
277 23.6 18.8 28.2
138 19.0 16.2 24.4

