

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082024\
 Data File : BM047283.D
 Acq On : 20 Aug 2024 23:34
 Operator : RC/JU
 Sample : P3652-01MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

Quant Time: Aug 21 02:51:18 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	7.357	152	319115	20.000	ng	-0.02
21) Naphthalene-d8	10.110	136	1099155	20.000	ng	-0.02
39) Acenaphthene-d10	14.016	164	618026	20.000	ng	-0.02
64) Phenanthrene-d10	16.780	188	1134376	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	911523	20.000	ng	-0.01
86) Perylene-d12	23.715	264	1174904	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.016	112	1751362	98.065	ng	0.00
7) Phenol-d6	6.575	99	2178617	88.531	ng	-0.01
23) Nitrobenzene-d5	8.510	82	1498072	68.628	ng	-0.01
42) 2,4,6-Tribromophenol	15.527	330	727902	101.576	ng	-0.01
45) 2-Fluorobiphenyl	12.627	172	3109372	77.607	ng	-0.02
79) Terphenyl-d14	19.451	244	3473620	81.656	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.034	88	285499	38.582	ng	96
3) Pyridine	3.405	79	725033	33.414	ng	97
4) n-Nitrosodimethylamine	3.322	42	349742	36.892	ng	98
6) Aniline	6.710	93	889428	38.239	ng	99
8) 2-Chlorophenol	6.940	128	836800	42.960	ng	96
9) Benzaldehyde	6.522	77	430903	30.344	ng	97
10) Phenol	6.604	94	935833	38.112	ng	98
11) bis(2-Chloroethyl)ether	6.810	93	819738	38.983	ng	97
12) 1,3-Dichlorobenzene	7.245	146	975772	42.156	ng	97
13) 1,4-Dichlorobenzene	7.393	146	992149	42.335	ng	99
14) 1,2-Dichlorobenzene	7.698	146	945814	42.773	ng	99
15) Benzyl Alcohol	7.610	79	710157	40.548	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.881	45	1027520	38.080	ng	99
17) 2-Methylphenol	7.822	107	628320	38.355	ng	99
18) Hexachloroethane	8.410	117	378576	41.703	ng	93
19) n-Nitroso-di-n-propyla...	8.169	70	571425	34.473	ng	98
20) 3+4-Methylphenols	8.151	107	849591	37.097	ng	100
22) Acetophenone	8.181	105	1122420	42.305	ng	98
24) Nitrobenzene	8.551	77	902629	41.065	ng	97
25) Isophorone	9.075	82	1568849	41.277	ng	98
26) 2-Nitrophenol	9.245	139	459979	47.253	ng	96
27) 2,4-Dimethylphenol	9.328	122	604169	52.985	ng	100
28) bis(2-Chloroethoxy)met...	9.557	93	1004072	41.984	ng	99
29) 2,4-Dichlorophenol	9.781	162	775098	45.812	ng	98
30) 1,2,4-Trichlorobenzene	9.981	180	871072	45.494	ng	99
31) Naphthalene	10.163	128	2351355	42.942	ng	99
32) Benzoic acid	9.516	122	499031	37.669	ng	96
33) 4-Chloroaniline	10.292	127	563412	26.757	ng	100
34) Hexachlorobutadiene	10.445	225	565420	50.453	ng	100
35) Caprolactam	11.098	113	207485	35.313	ng	92
36) 4-Chloro-3-methylphenol	11.445	107	694854	38.563	ng	98
37) 2-Methylnaphthalene	11.786	142	1622104	41.607	ng	98
38) 1-Methylnaphthalene	12.016	142	1491869	38.719	ng	97
40) 1,2,4,5-Tetrachloroben...	12.175	216	889186	52.749	ng	98
41) Hexachlorocyclopentadiene	12.145	237	1007368	171.140	ng	97
43) 2,4,6-Trichlorophenol	12.433	196	591106	49.335	ng	98

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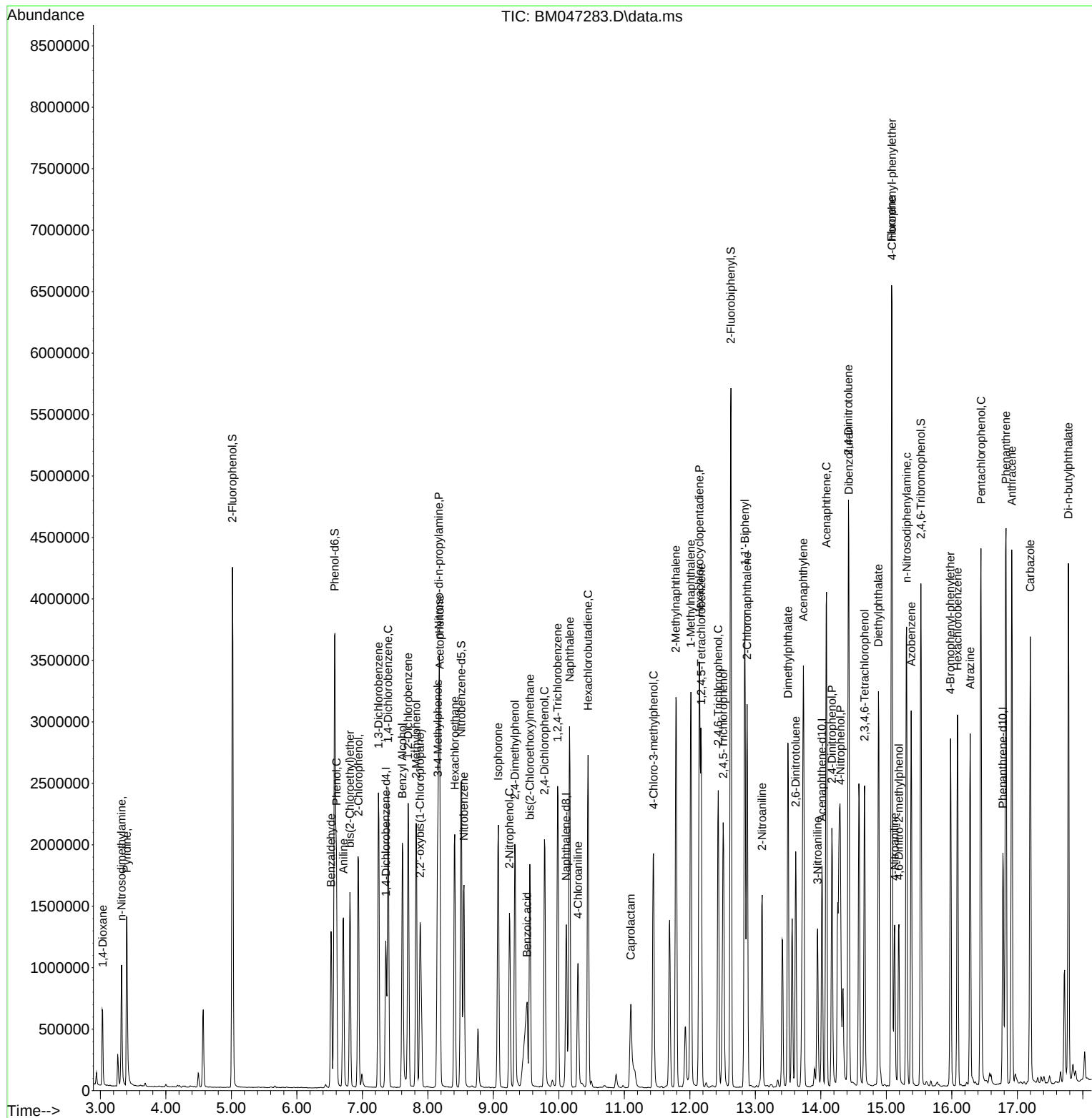
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.510	196	623033	46.834	ng	97
46) 1,1'-Biphenyl	12.839	154	2011327	45.714	ng	99
47) 2-Chloronaphthalene	12.875	162	1552570	45.147	ng	97
48) 2-Nitroaniline	13.104	65	444066	41.218	ng	95
49) Acenaphthylene	13.733	152	2412842	47.599	ng	100
50) Dimethylphthalate	13.498	163	1867732	43.271	ng	99
51) 2,6-Dinitrotoluene	13.616	165	419095	41.536	ng	92
52) Acenaphthene	14.086	154	1454370	45.231	ng	99
53) 3-Nitroaniline	13.951	138	331130	32.751	ng	96
54) 2,4-Dinitrophenol	14.169	184	497628	82.288	ng	94
55) Dibenzofuran	14.427	168	2223413	43.777	ng	99
56) 4-Nitrophenol	14.298	139	628067	72.039	ng	97
57) 2,4-Dinitrotoluene	14.421	165	531616	39.473	ng	96
58) Fluorene	15.080	166	1747017	41.688	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.669	232	501087	45.832	ng	95
60) Diethylphthalate	14.880	149	1794832	40.720	ng	99
61) 4-Chlorophenyl-phenyle...	15.086	204	864646	43.338	ng	95
62) 4-Nitroaniline	15.127	138	354842	35.624	ng	95
63) Azobenzene	15.380	77	1635743	39.139	ng	96
65) 4,6-Dinitro-2-methylph...	15.192	198	308347	46.427	ng	91
66) n-Nitrosodiphenylamine	15.310	169	1499184	48.521	ng	99
67) 4-Bromophenyl-phenylether	15.980	248	546883	50.030	ng	98
68) Hexachlorobenzene	16.086	284	619881	47.350	ng	97
69) Atrazine	16.280	200	524830	56.448	ng	98
70) Pentachlorophenol	16.445	266	803275	87.532	ng	98
71) Phenanthrene	16.827	178	2798987	49.165	ng	99
72) Anthracene	16.915	178	2660103	48.022	ng	100
73) Carbazole	17.198	167	2389120	42.242	ng	99
74) Di-n-butylphthalate	17.780	149	2937853	44.641	ng	99
75) Fluoranthene	18.862	202	3347767	48.347	ng	99
77) Benzidine	19.068	184	1388299	89.811	ng	99
78) Pyrene	19.227	202	3490899	53.636	ng	99
80) Butylbenzylphthalate	20.162	149	1247794	46.978	ng	96
81) Benzo(a)anthracene	21.003	228	3048278	50.375	ng	99
82) 3,3'-Dichlorobenzidine	20.945	252	984154	51.981	ng	98
83) Chrysene	21.062	228	2857193	49.766	ng	99
84) Bis(2-ethylhexyl)phtha...	20.962	149	1744396	46.309	ng	99
85) Di-n-octyl phthalate	21.992	149	3126306	48.829	ng	98
87) Indeno(1,2,3-cd)pyrene	26.715	276	3977139	52.370	ng	98
88) Benzo(b)fluoranthene	22.880	252	3307853	47.409	ng	99
89) Benzo(k)fluoranthene	22.933	252	3042305	46.163	ng	99
90) Benzo(a)pyrene	23.591	252	3154353	52.188	ng	99
91) Dibenzo(a,h)anthracene	26.762	278	2993975	48.715	ng	99
92) Benzo(g,h,i)perylene	27.644	276	3137261	49.166	ng	98

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

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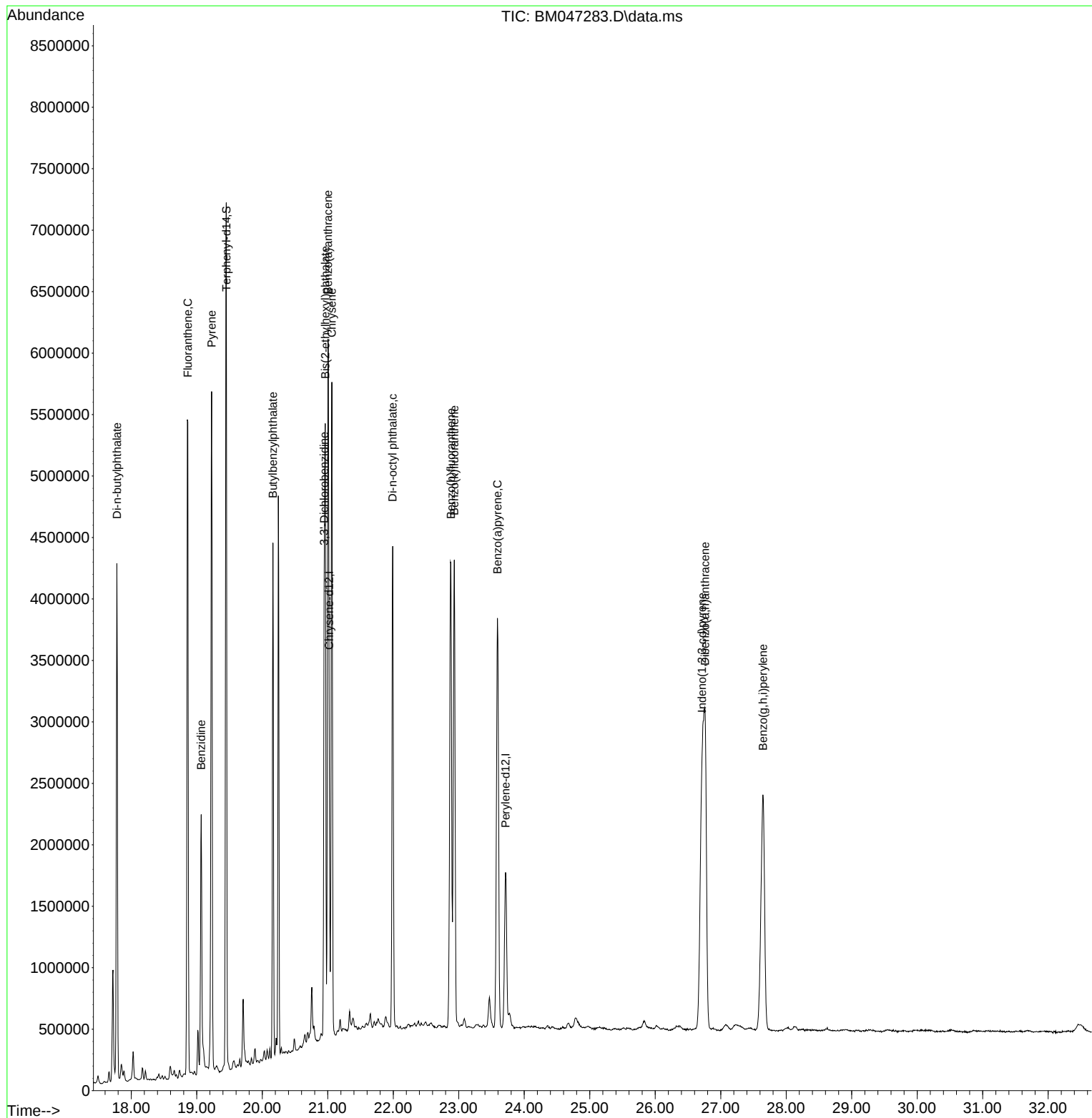
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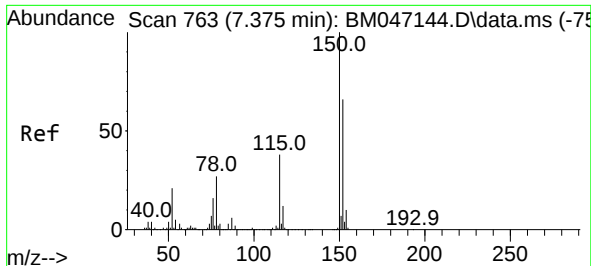


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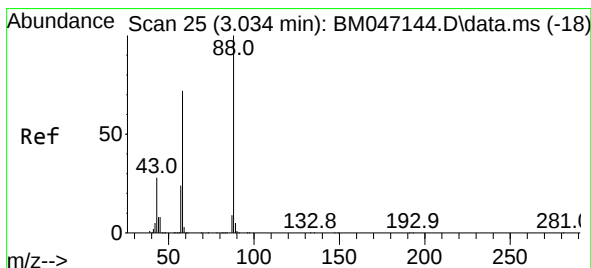
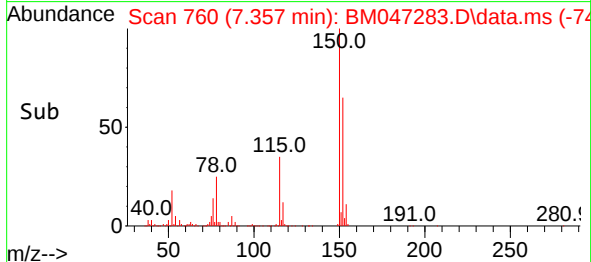
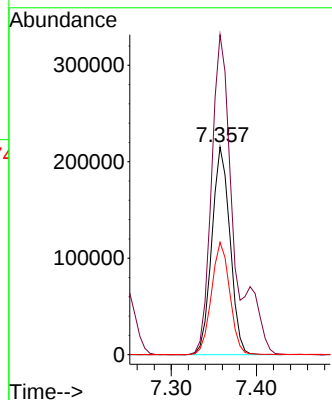
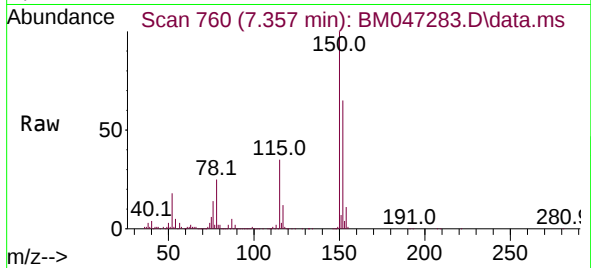




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.357 min Scan# 7
 Delta R.T. -0.018 min
 Lab File: BM047283.D
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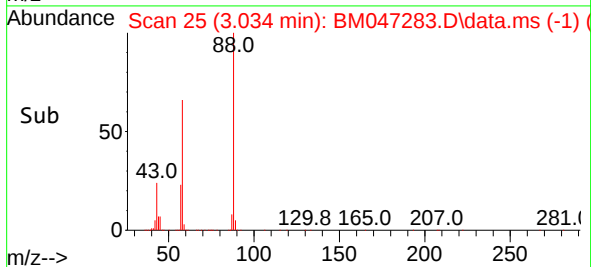
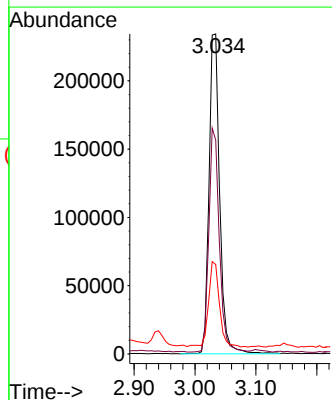
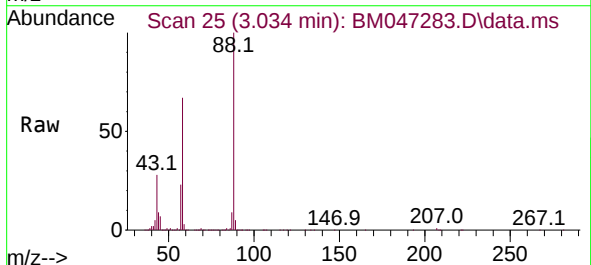
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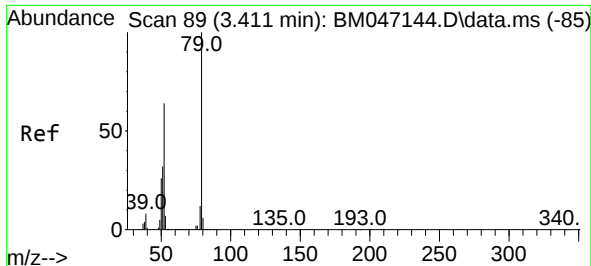
Tgt Ion:152 Resp: 319115
 Ion Ratio Lower Upper
 152 100
 150 154.1 120.5 180.7
 115 54.1 45.5 68.3



#2
 1,4-Dioxane
 Concen: 38.582 ng
 RT: 3.034 min Scan# 25
 Delta R.T. -0.000 min
 Lab File: BM047283.D
 Acq: 20 Aug 2024 23:34

Tgt Ion: 88 Resp: 285499
 Ion Ratio Lower Upper
 88 100
 58 68.6 58.2 87.4
 43 27.3 22.5 33.7

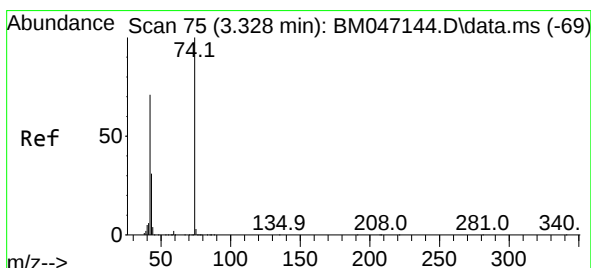
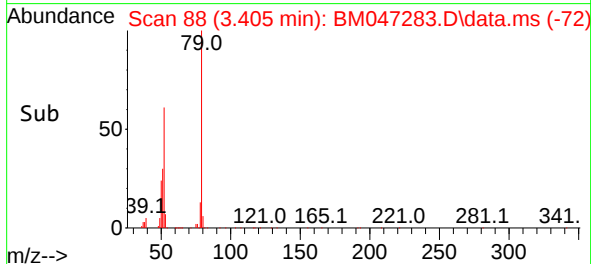
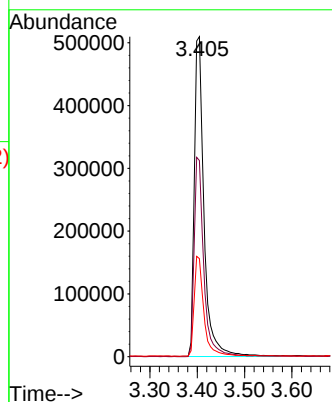
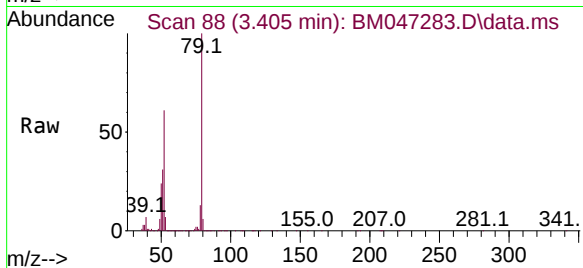




#3
Pyridine
Concen: 33.414 ng
RT: 3.405 min Scan# 89
Delta R.T. -0.006 min
Lab File: BM047283.D
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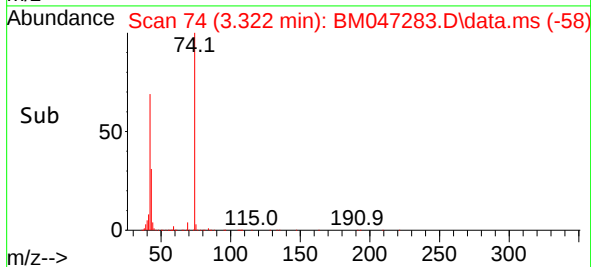
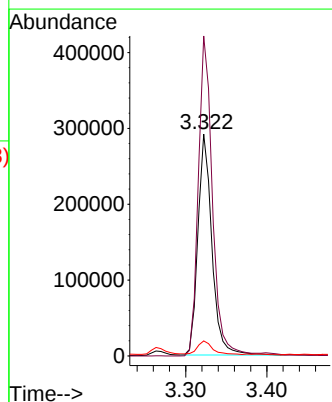
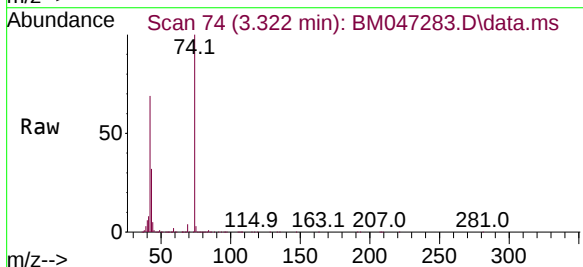
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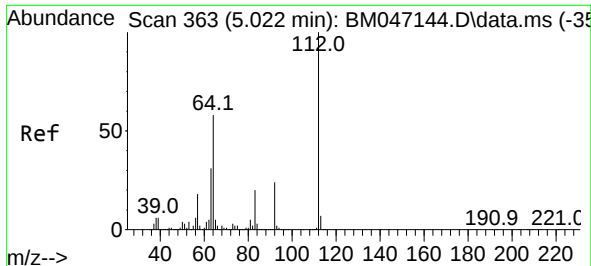
Tgt Ion: 79 Resp: 725033
Ion Ratio Lower Upper
79 100
52 61.3 51.2 76.8
51 30.6 26.1 39.1



#4
n-Nitrosodimethylamine
Concen: 36.892 ng
RT: 3.322 min Scan# 74
Delta R.T. -0.006 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 42 Resp: 349742
Ion Ratio Lower Upper
42 100
74 144.2 112.9 169.3
44 6.8 5.3 7.9

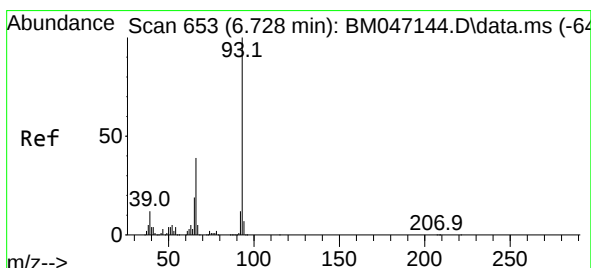
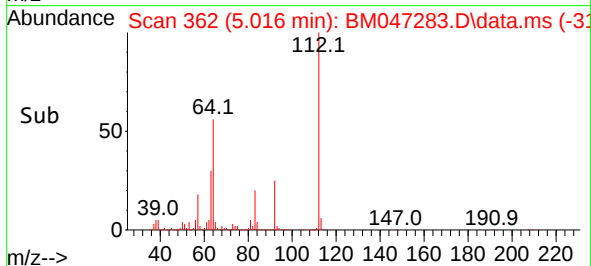
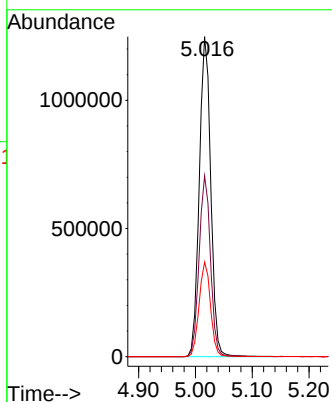
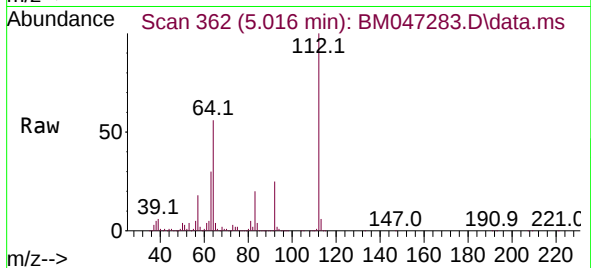




#5
2-Fluorophenol
Concen: 98.065 ng
RT: 5.016 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM047283.D
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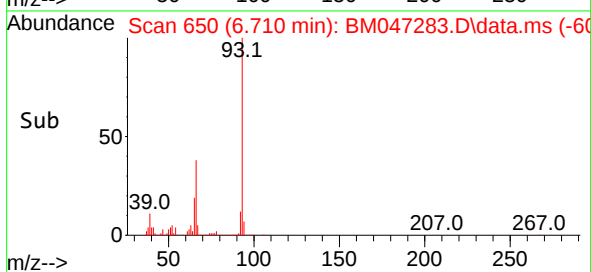
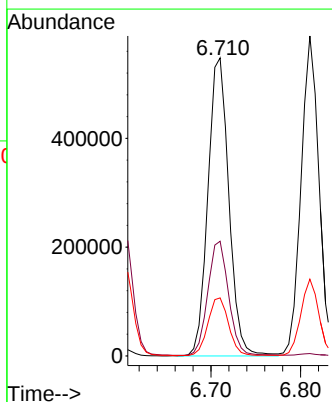
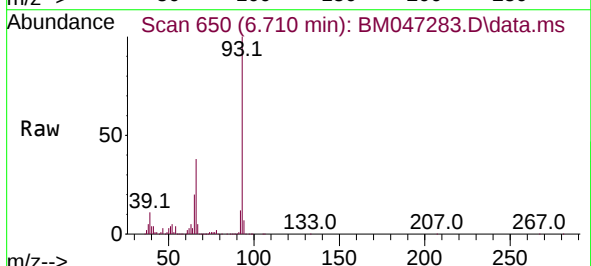
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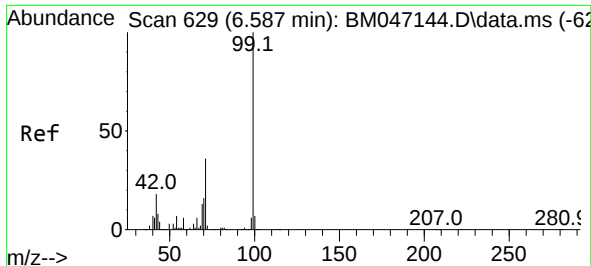
Tgt Ion:112 Resp: 1751362
Ion Ratio Lower Upper
112 100
64 56.5 46.7 70.1
63 29.6 24.8 37.2



#6
Aniline
Concen: 38.239 ng
RT: 6.710 min Scan# 650
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 93 Resp: 889428
Ion Ratio Lower Upper
93 100
66 38.5 31.4 47.2
65 19.5 15.6 23.4

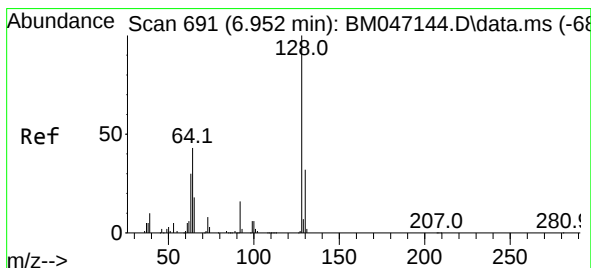
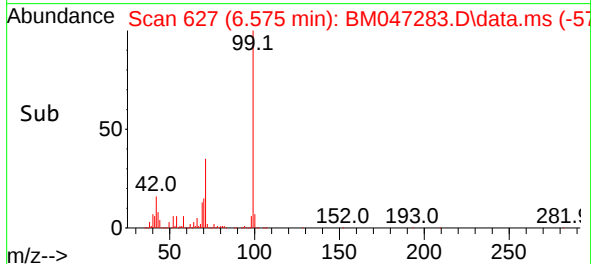
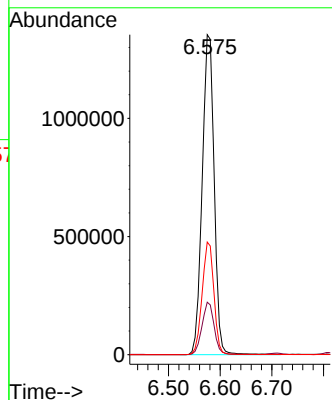
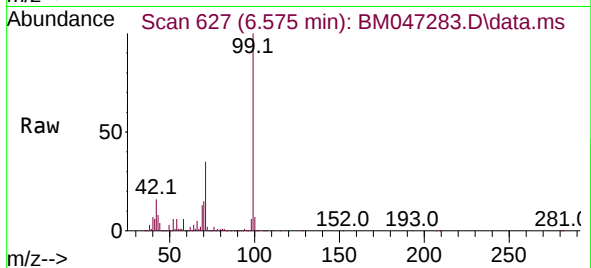




#7
Phenol-d6
Concen: 88.531 ng
RT: 6.575 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM047283.D
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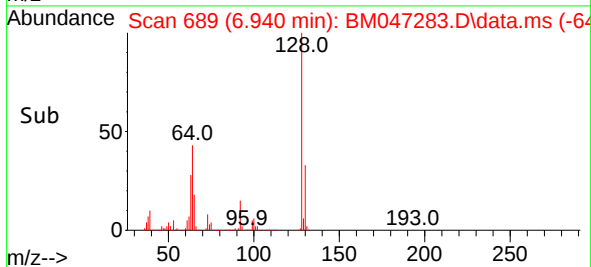
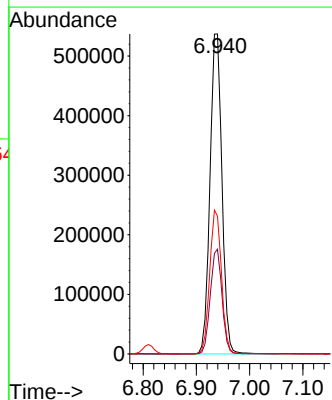
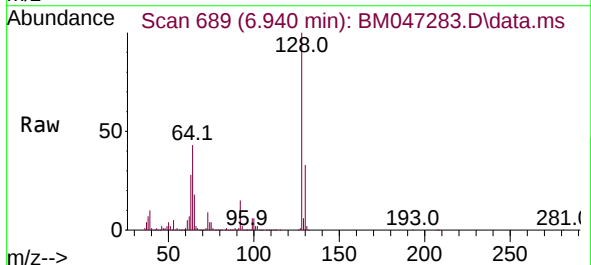
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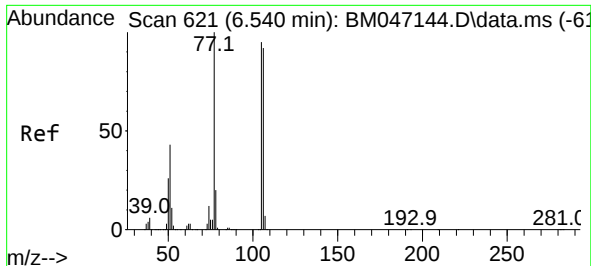
Tgt Ion: 99 Resp: 2178617
Ion Ratio Lower Upper
99 100
42 16.4 14.1 21.1
71 35.2 28.5 42.7



#8
2-Chlorophenol
Concen: 42.960 ng
RT: 6.940 min Scan# 689
Delta R.T. -0.012 min
Lab File: BM047283.D
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Tgt Ion: 128 Resp: 836800
Ion Ratio Lower Upper
128 100
130 32.8 12.1 52.1
64 43.0 26.6 66.6

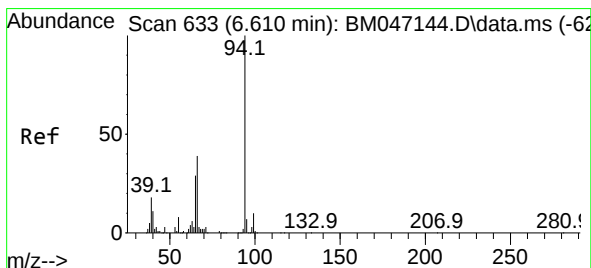
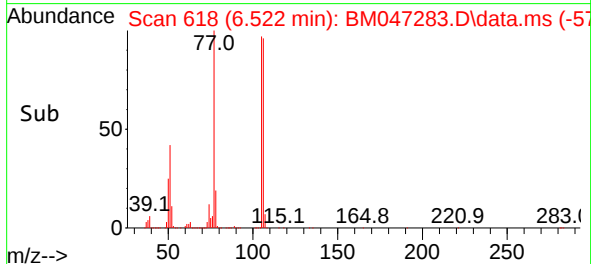
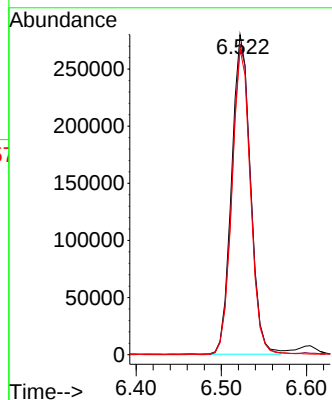
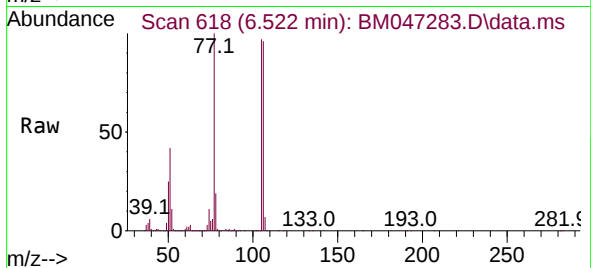




#9
Benzaldehyde
Concen: 30.344 ng
RT: 6.522 min Scan# 618
Delta R.T. -0.018 min
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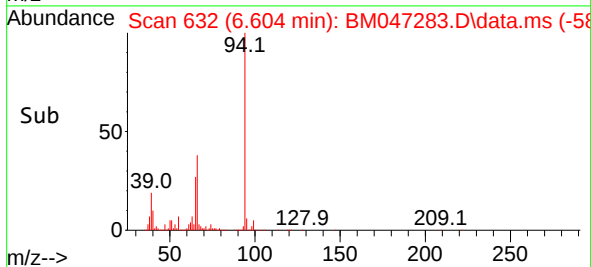
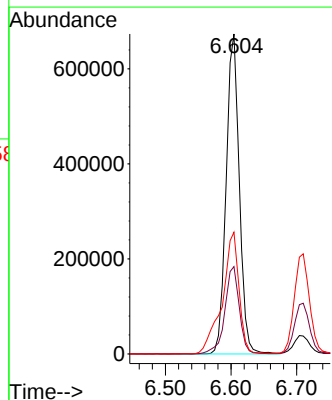
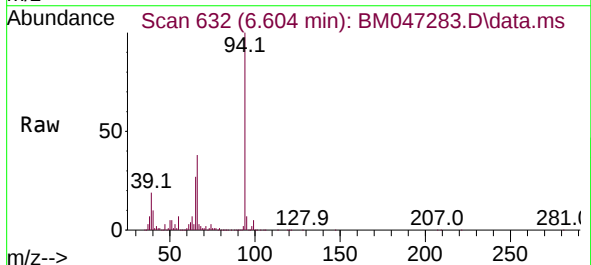
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion: 77 Resp: 430903
Ion Ratio Lower Upper
77 100
105 97.0 74.5 114.5
106 95.6 72.3 112.3



#10
Phenol
Concen: 38.112 ng
RT: 6.604 min Scan# 632
Delta R.T. -0.006 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 94 Resp: 935833
Ion Ratio Lower Upper
94 100
65 27.3 9.0 49.0
66 38.1 18.9 58.9

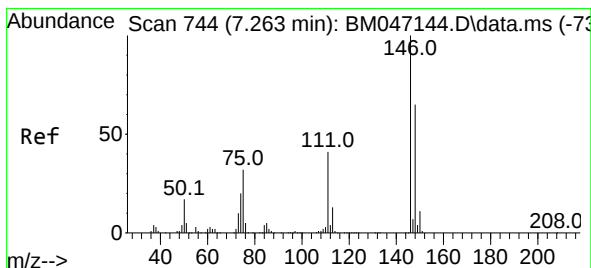
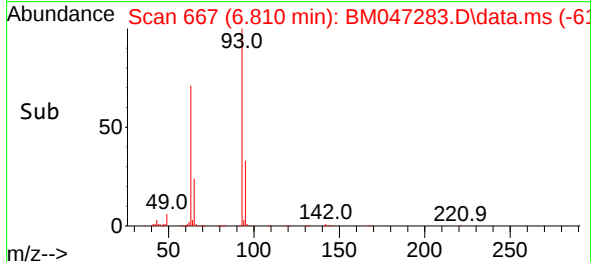
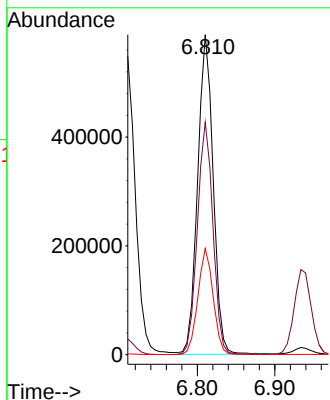
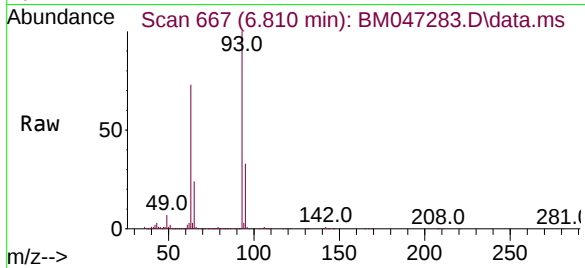




#11
bis(2-Chloroethyl)ether
Concen: 38.983 ng
RT: 6.810 min Scan# 60
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

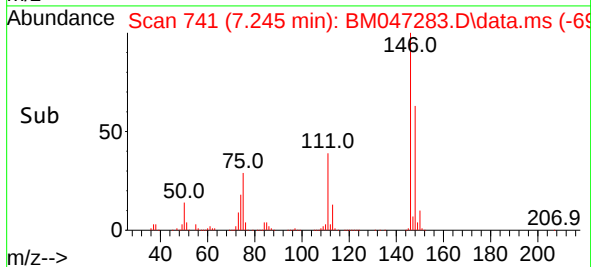
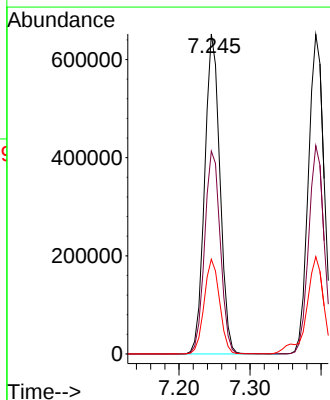
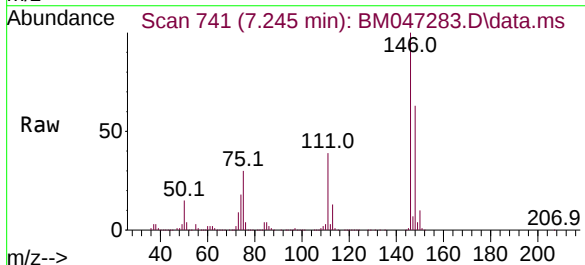
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

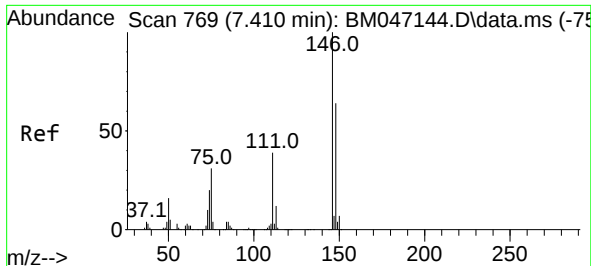
Tgt Ion: 93 Resp: 819738
Ion Ratio Lower Upper
93 100
63 72.7 55.8 95.8
95 33.2 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 42.156 ng
RT: 7.245 min Scan# 741
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 146 Resp: 975772
Ion Ratio Lower Upper
146 100
148 63.4 52.3 78.5
75 29.6 25.8 38.6

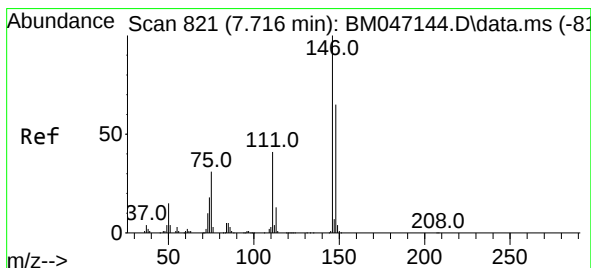
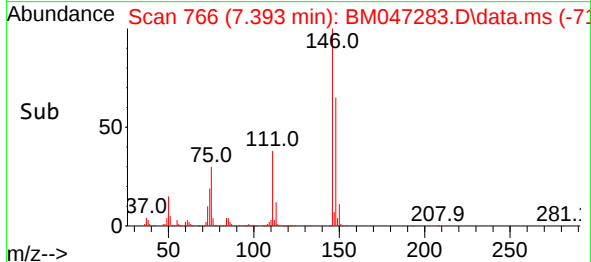
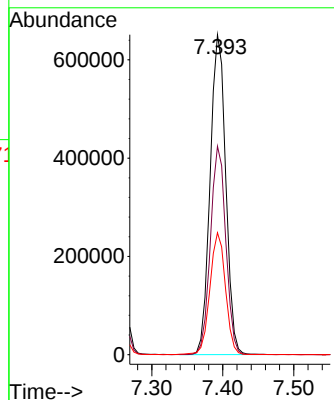
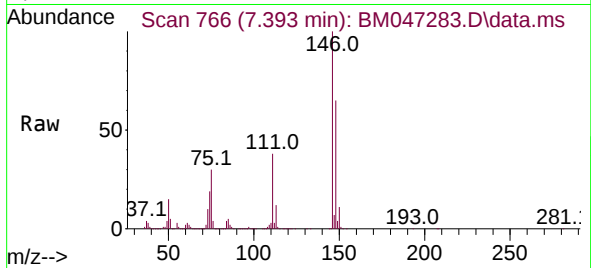




#13
1,4-Dichlorobenzene
Concen: 42.335 ng
RT: 7.393 min Scan# 70
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

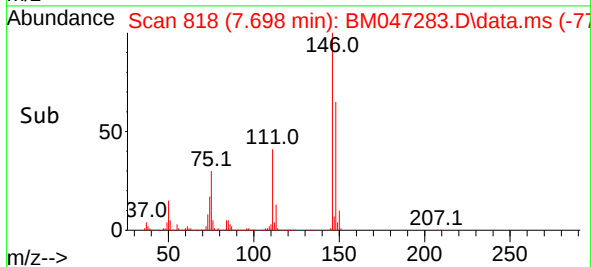
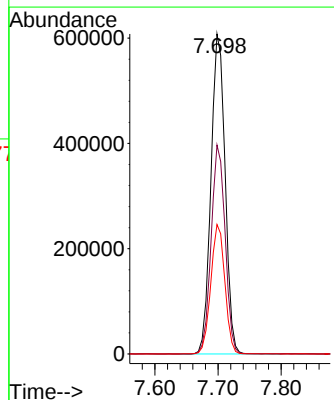
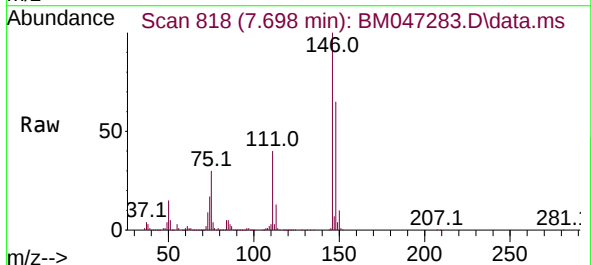
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:146 Resp: 992149
Ion Ratio Lower Upper
146 100
148 65.2 51.4 77.2
111 38.1 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 42.773 ng
RT: 7.698 min Scan# 818
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:146 Resp: 945814
Ion Ratio Lower Upper
146 100
148 65.3 51.8 77.8
111 40.4 33.3 49.9

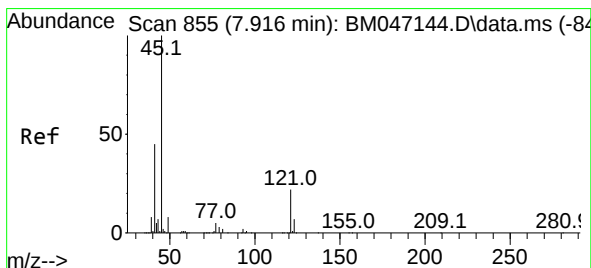
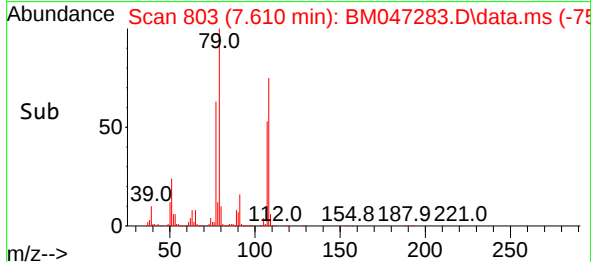
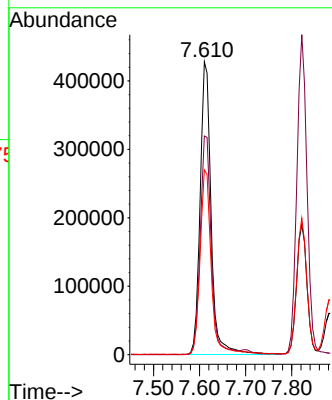
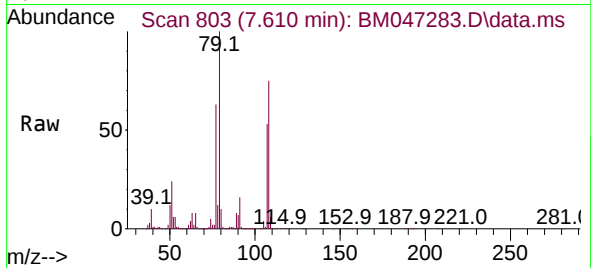




#15
Benzyl Alcohol
Concen: 40.548 ng
RT: 7.610 min Scan# 806
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

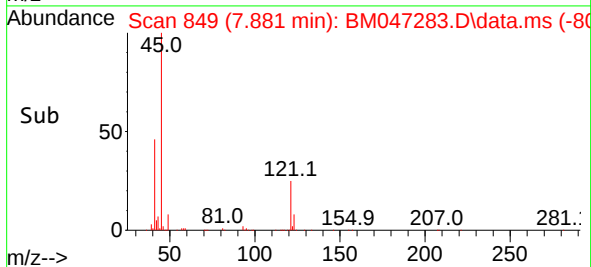
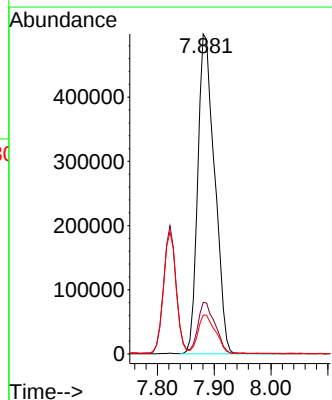
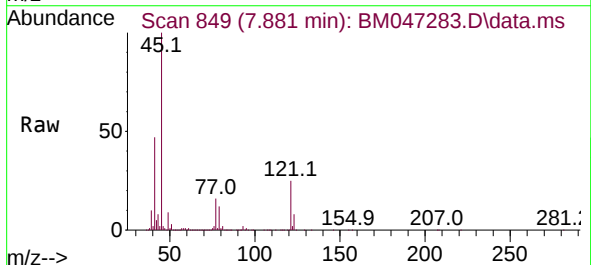
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

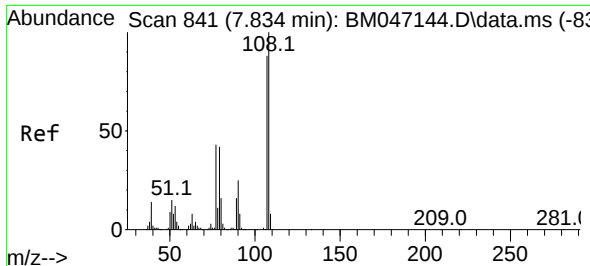
Tgt Ion: 79 Resp: 710157
Ion Ratio Lower Upper
79 100
108 74.7 59.7 89.5
77 63.1 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.080 ng
RT: 7.881 min Scan# 849
Delta R.T. -0.035 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 45 Resp: 1027520
Ion Ratio Lower Upper
45 100
77 16.1 0.0 35.6
79 12.1 0.0 32.4



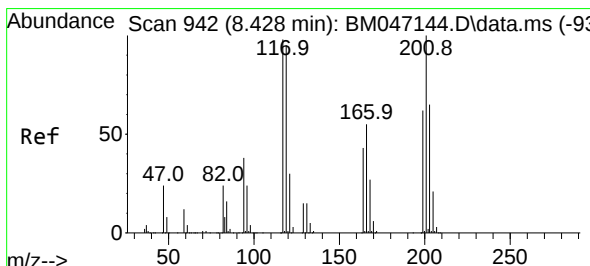
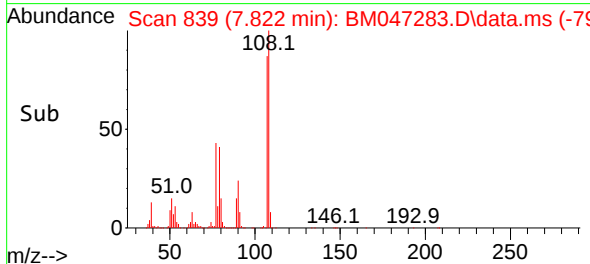
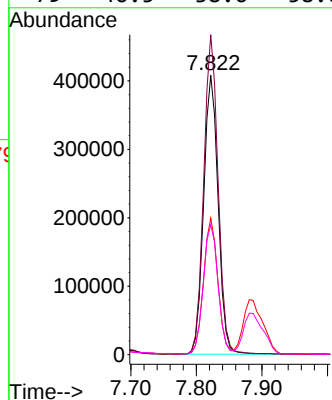
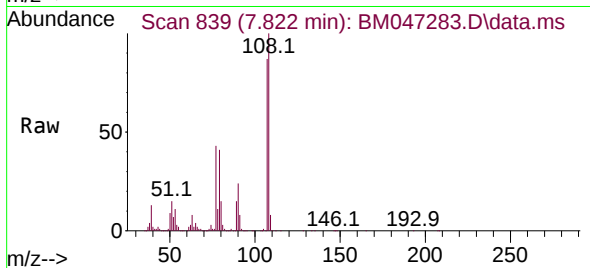


#17
2-Methylphenol
Concen: 38.355 ng
RT: 7.822 min Scan# 81
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:107 Resp: 628320

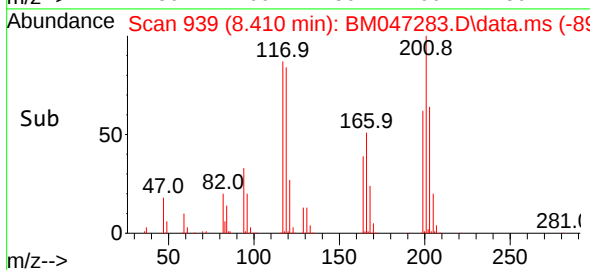
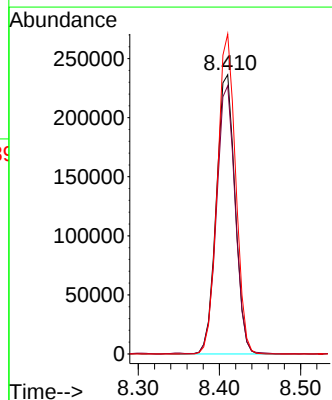
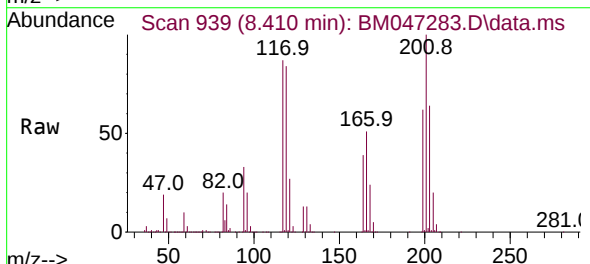
Ion	Ratio	Lower	Upper
107	100		
108	114.5	90.6	135.8
77	48.9	39.3	58.9
79	46.5	38.6	58.0

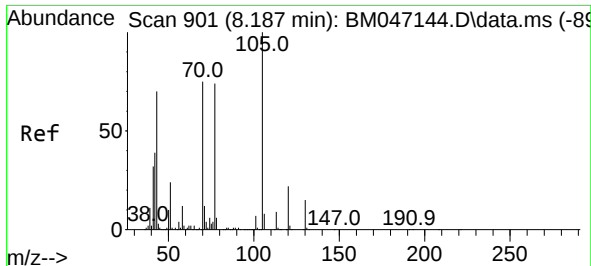


#18
Hexachloroethane
Concen: 41.703 ng
RT: 8.410 min Scan# 939
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:117 Resp: 378576

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.0	115.4
201	114.6	81.3	121.9



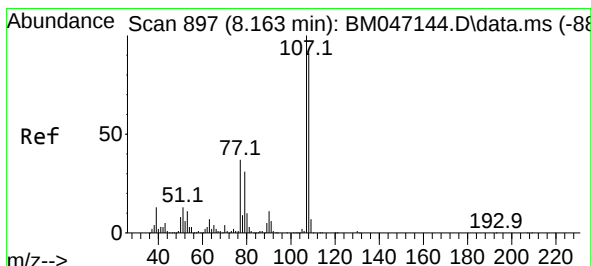
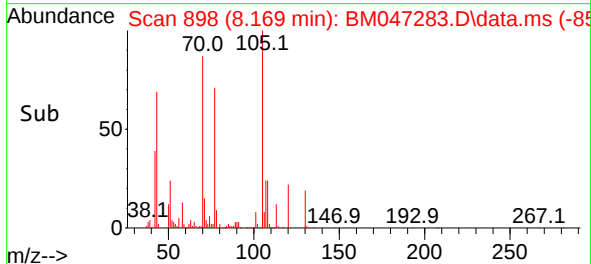
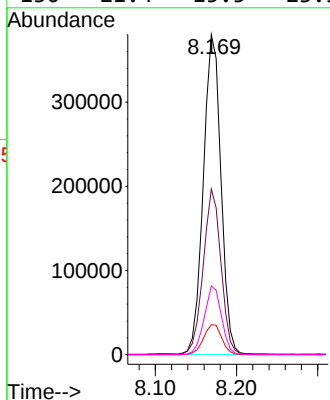
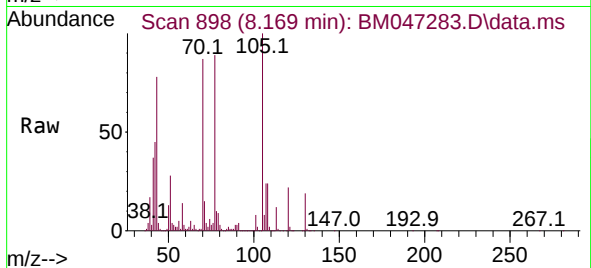


#19
n-Nitroso-di-n-propylamine
Concen: 34.473 ng
RT: 8.169 min Scan# 898
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion: 70 Resp: 571425

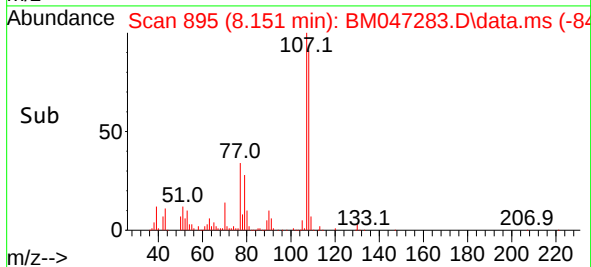
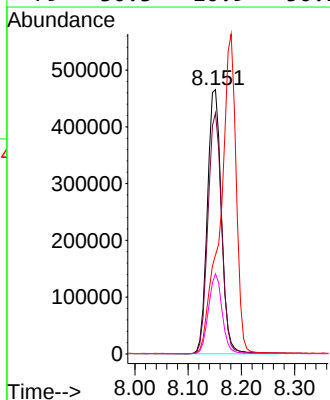
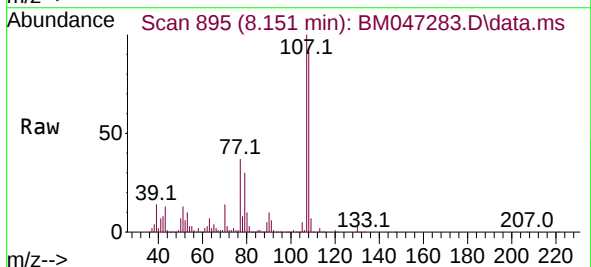
Ion	Ratio	Lower	Upper
70	100		
42	51.8	42.0	63.0
101	9.3	7.2	10.8
130	21.4	15.5	23.3



#20
3+4-Methylphenols
Concen: 37.097 ng
RT: 8.151 min Scan# 895
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 107 Resp: 849591

Ion	Ratio	Lower	Upper
107	100		
108	91.1	70.7	110.7
77	37.4	17.4	57.4
79	30.3	10.9	50.9

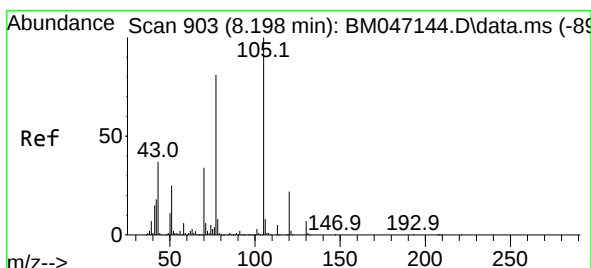
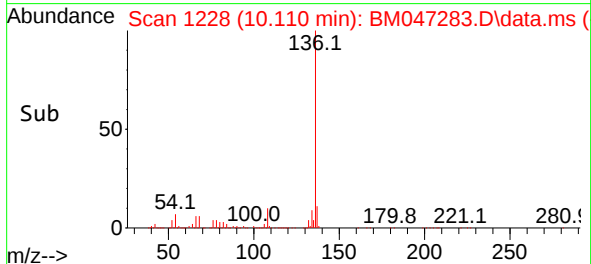
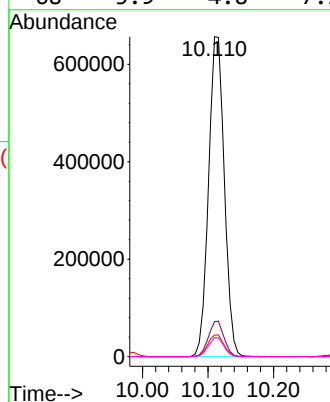
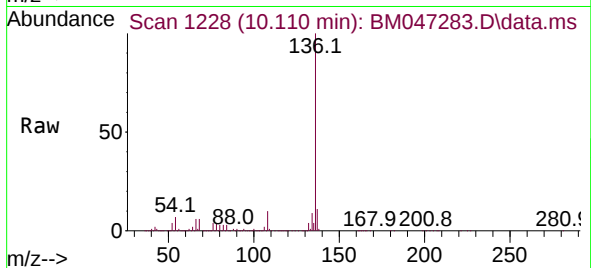




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.110 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

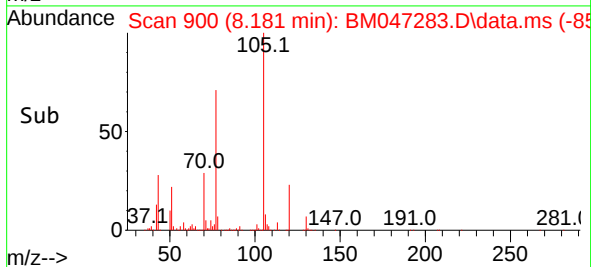
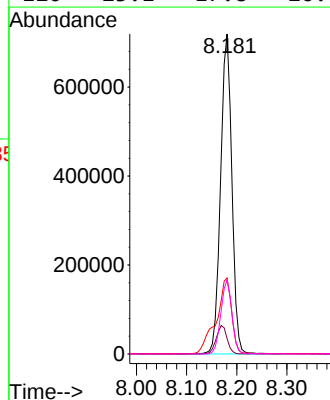
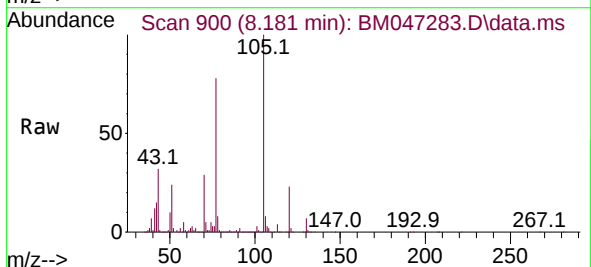
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:136 Resp: 1099155
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.7 6.0 9.0
68 5.9 4.8 7.2



#22
Acetophenone
Concen: 42.305 ng
RT: 8.181 min Scan# 900
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:105 Resp: 1122420
Ion Ratio Lower Upper
105 100
71 4.8 4.5 6.7
51 23.8 20.1 30.1
120 23.1 17.8 26.6

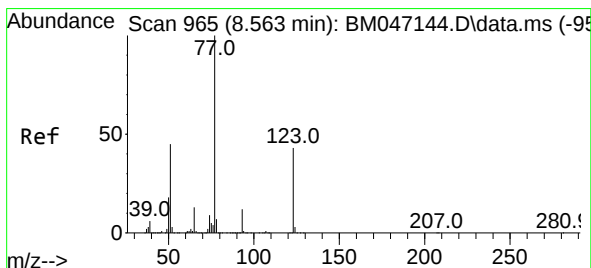
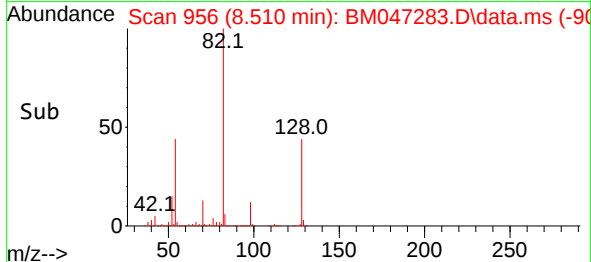
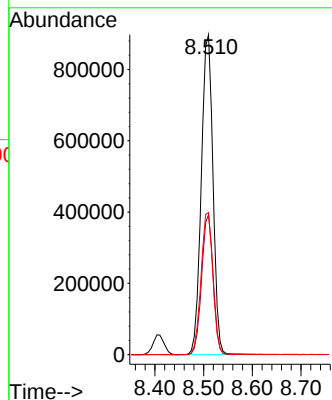
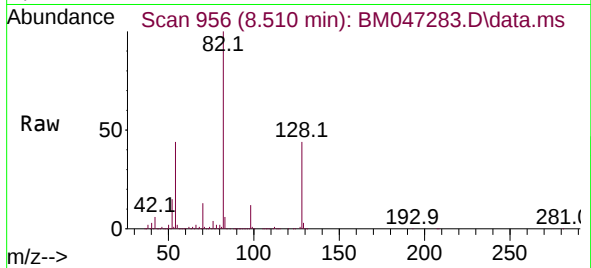




#23
Nitrobenzene-d5
Concen: 68.628 ng
RT: 8.510 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

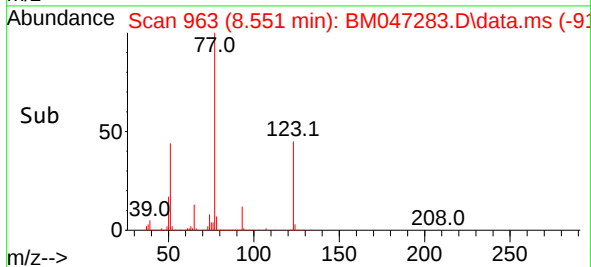
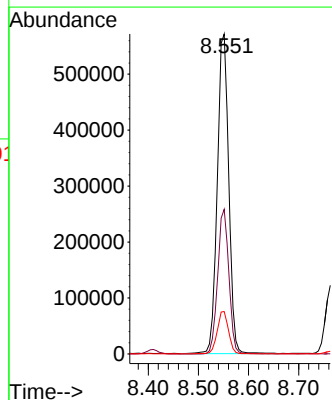
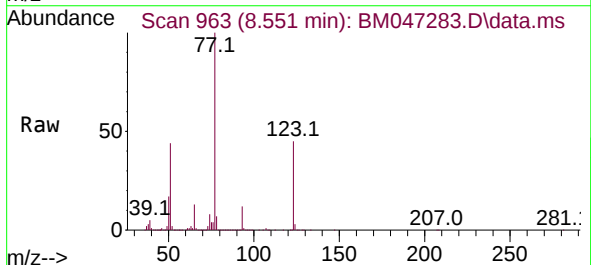
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

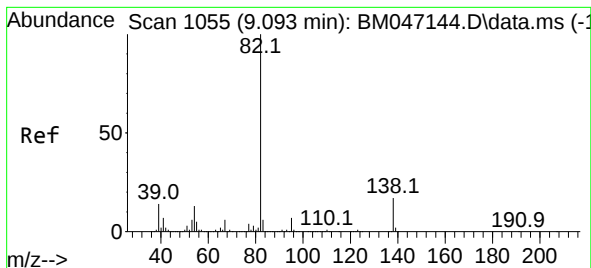
Tgt Ion: 82 Resp: 1498072
Ion Ratio Lower Upper
82 100
128 43.7 32.3 48.5
54 44.4 37.4 56.2



#24
Nitrobenzene
Concen: 41.065 ng
RT: 8.551 min Scan# 963
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 77 Resp: 902629
Ion Ratio Lower Upper
77 100
123 45.2 34.0 51.0
65 13.3 10.5 15.7





#25

Isophorone

Concen: 41.277 ng

RT: 9.075 min Scan# 1052

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

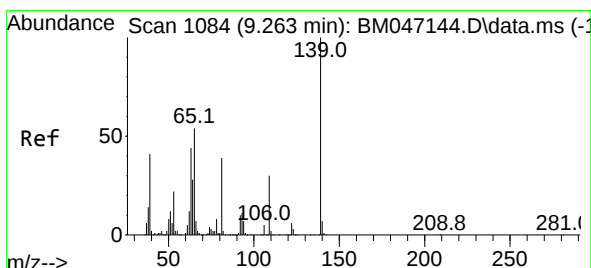
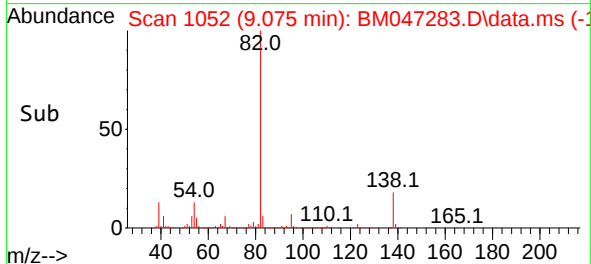
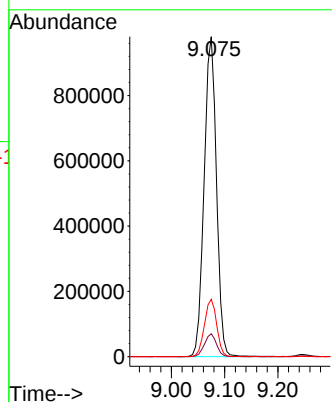
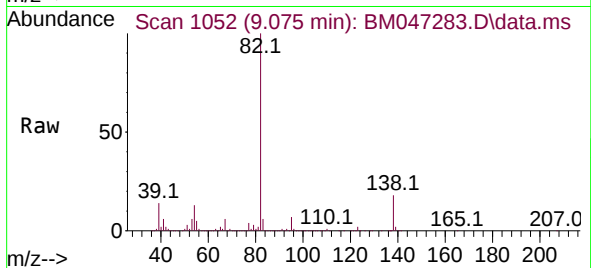
Tgt Ion: 82 Resp: 1568849

Ion Ratio Lower Upper

82 100

95 7.1 5.5 8.3

138 18.0 13.5 20.3



#26

2-Nitrophenol

Concen: 47.253 ng

RT: 9.245 min Scan# 1081

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

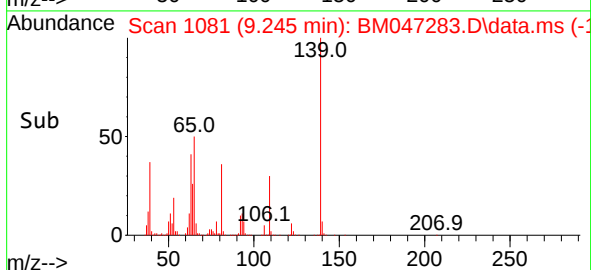
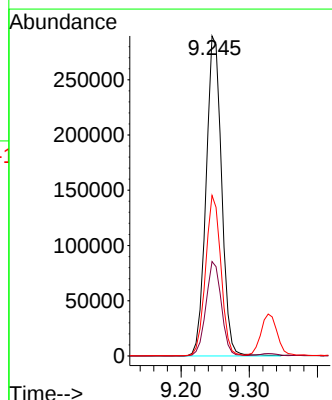
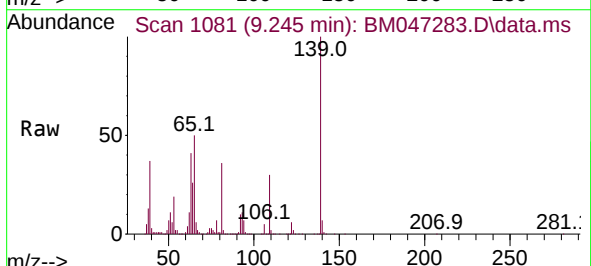
Tgt Ion: 139 Resp: 459979

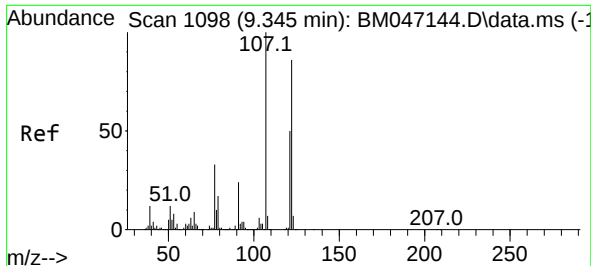
Ion Ratio Lower Upper

139 100

109 29.5 24.4 36.6

65 50.2 43.0 64.6

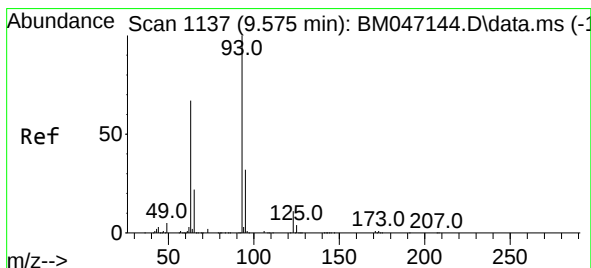
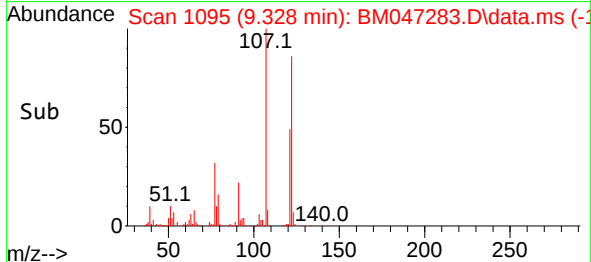
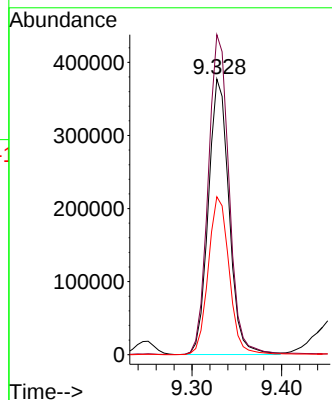
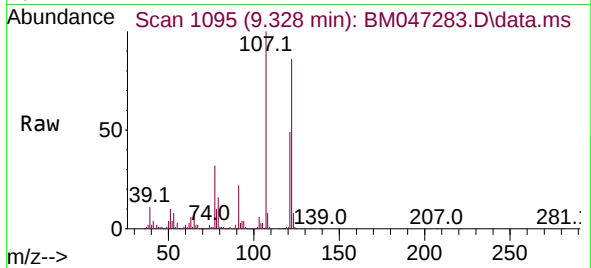




#27
2,4-Dimethylphenol
Concen: 52.985 ng
RT: 9.328 min Scan# 1095
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

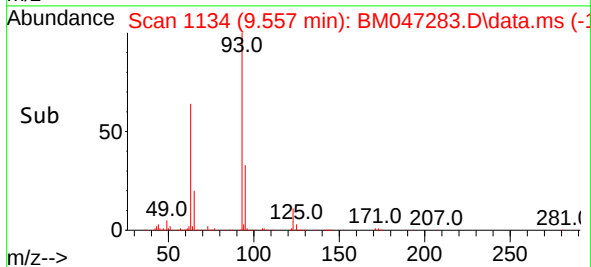
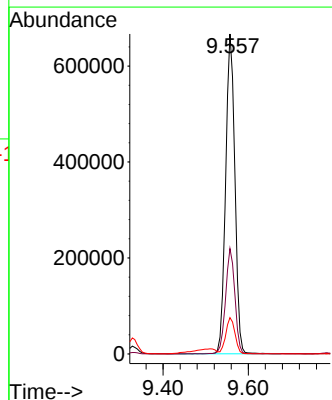
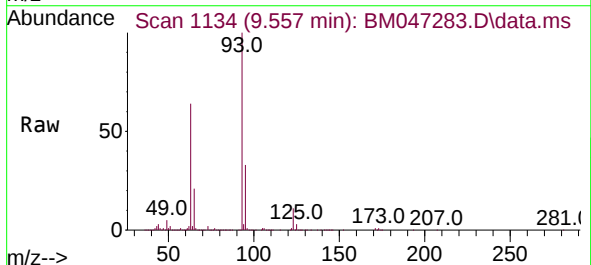
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:122 Resp: 604169
Ion Ratio Lower Upper
122 100
107 116.0 92.8 139.2
121 57.3 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 41.984 ng
RT: 9.557 min Scan# 1134
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion: 93 Resp: 1004072
Ion Ratio Lower Upper
93 100
95 33.0 25.8 38.8
123 11.3 9.0 13.4

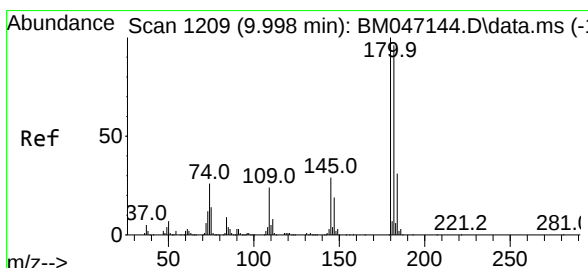
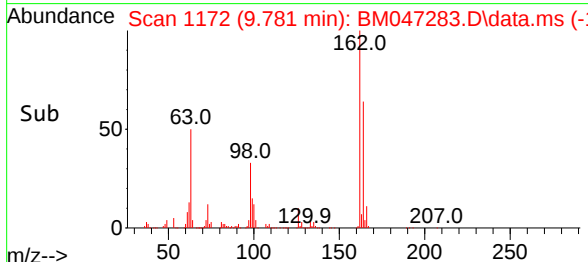
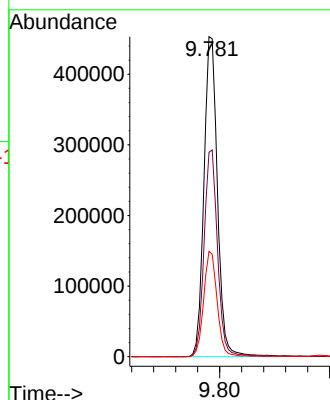
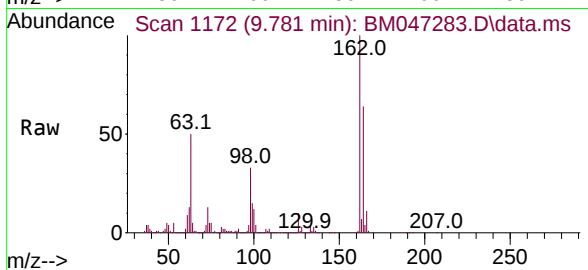




#29
2,4-Dichlorophenol
Concen: 45.812 ng
RT: 9.781 min Scan# 1175
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

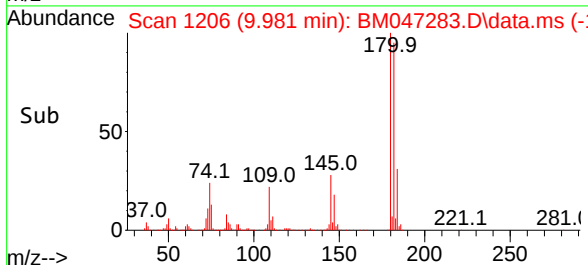
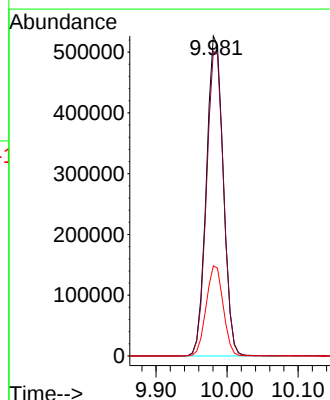
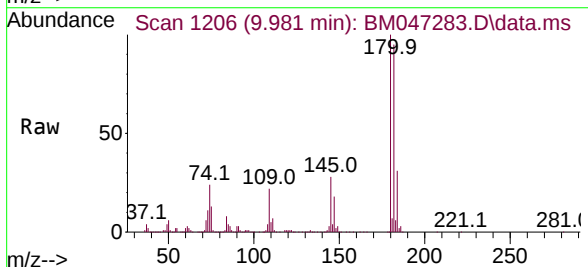
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

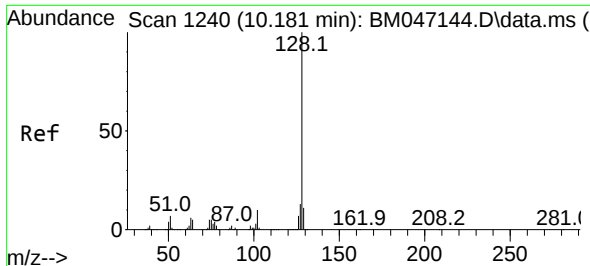
Tgt Ion:162 Resp: 775098
Ion Ratio Lower Upper
162 100
164 63.8 44.7 84.7
98 32.9 14.9 54.9



#30
1,2,4-Trichlorobenzene
Concen: 45.494 ng
RT: 9.981 min Scan# 1206
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:180 Resp: 871072
Ion Ratio Lower Upper
180 100
182 95.2 76.6 115.0
145 28.2 23.4 35.2

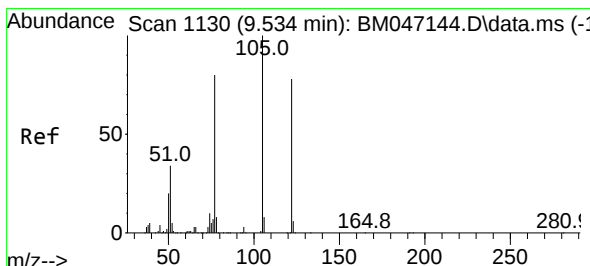
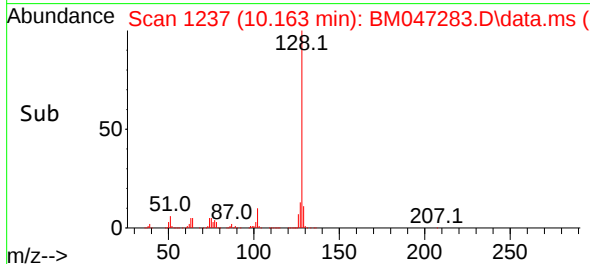
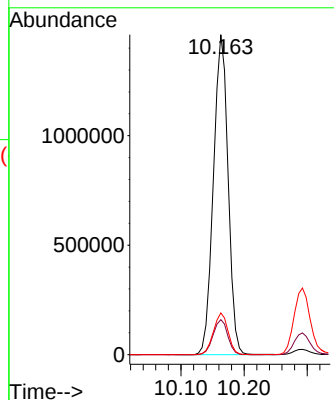
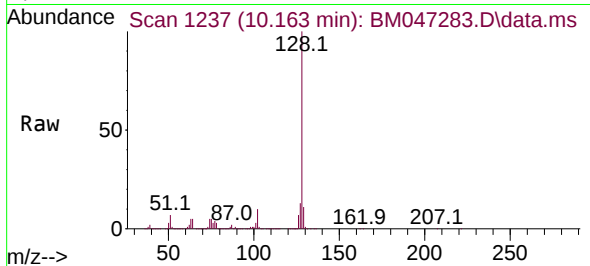




#31
Naphthalene
Concen: 42.942 ng
RT: 10.163 min Scan# 1127
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

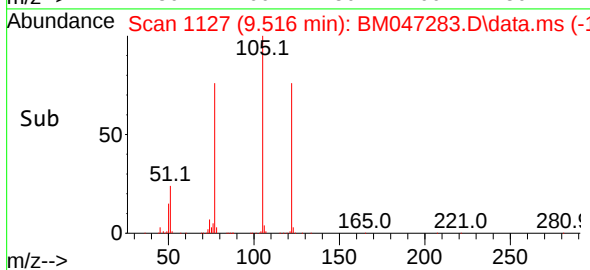
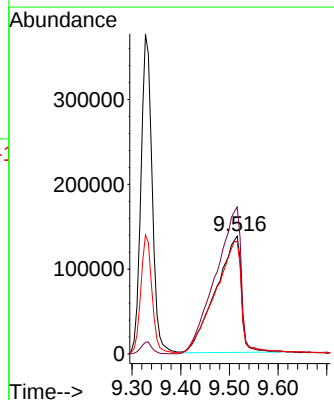
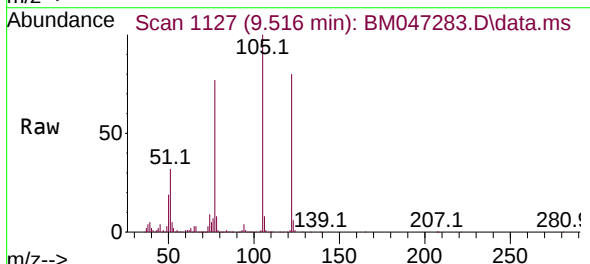
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:128 Resp: 2351355
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 13.0 10.2 15.4



#32
Benzoic acid
Concen: 37.669 ng
RT: 9.516 min Scan# 1127
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:122 Resp: 499031
Ion Ratio Lower Upper
122 100
105 124.7 107.1 147.1
77 95.6 82.1 122.1





#33

4-Chloroaniline

Concen: 26.757 ng

RT: 10.292 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion:127 Resp: 563412

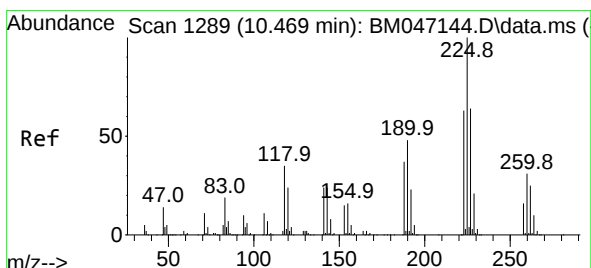
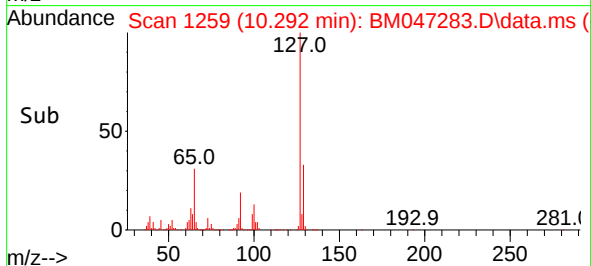
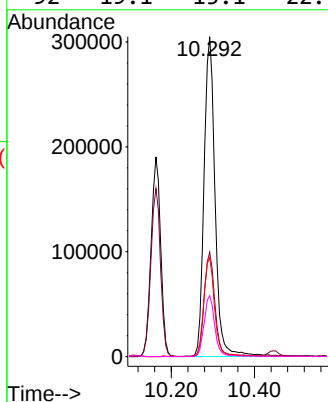
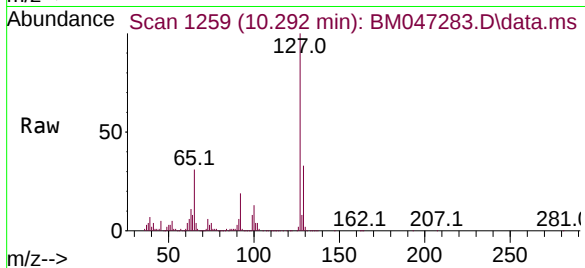
Ion Ratio Lower Upper

127 100

129 32.7 25.8 38.8

65 30.9 24.9 37.3

92 19.1 15.1 22.7



#34

Hexachlorobutadiene

Concen: 50.453 ng

RT: 10.445 min Scan# 1285

Delta R.T. -0.024 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

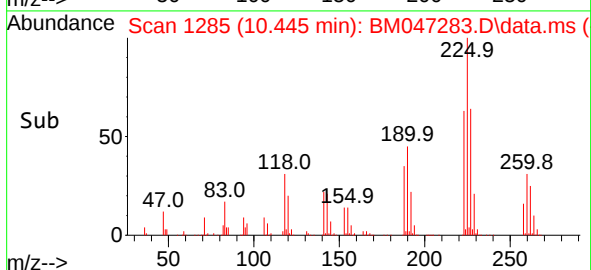
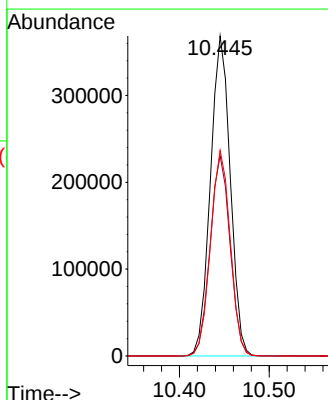
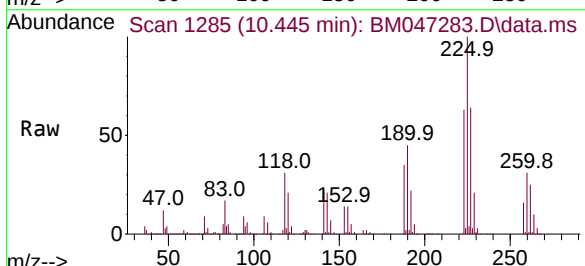
Tgt Ion:225 Resp: 565420

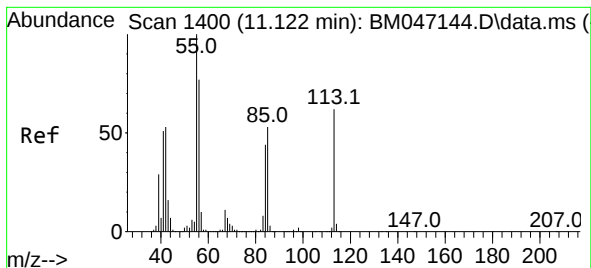
Ion Ratio Lower Upper

225 100

223 62.5 50.2 75.2

227 64.2 51.4 77.0





#35

Caprolactam

Concen: 35.313 ng

RT: 11.098 min Scan# 11

Delta R.T. -0.024 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

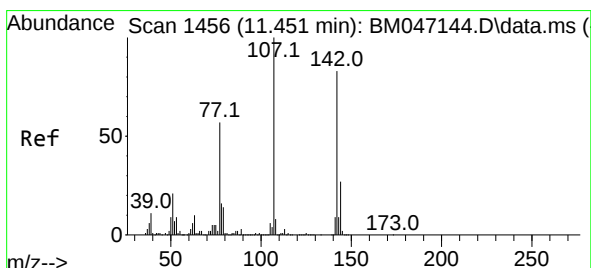
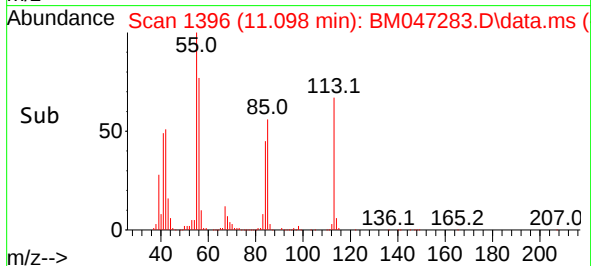
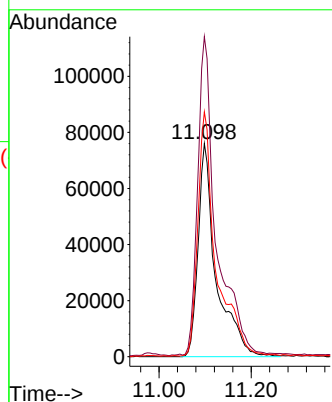
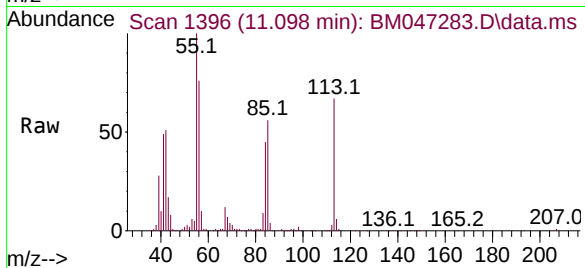
Tgt Ion:113 Resp: 207485

Ion Ratio Lower Upper

113 100

55 150.1 140.5 180.5

56 114.8 103.6 143.6



#36

4-Chloro-3-methylphenol

Concen: 38.563 ng

RT: 11.445 min Scan# 1455

Delta R.T. -0.006 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

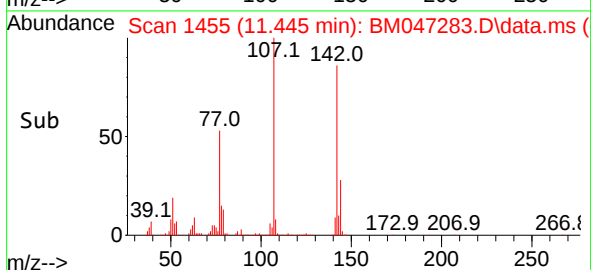
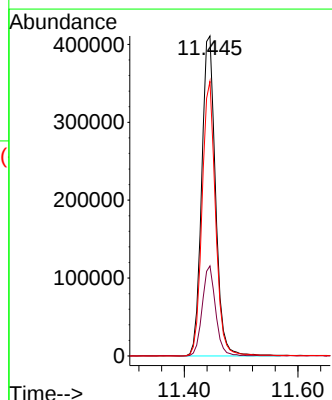
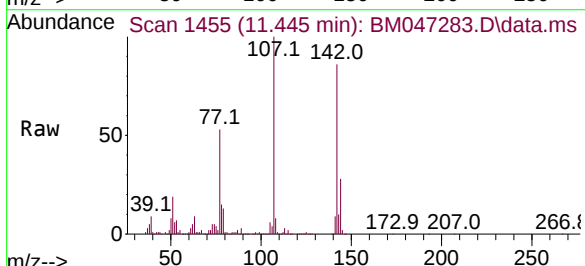
Tgt Ion:107 Resp: 694854

Ion Ratio Lower Upper

107 100

144 28.2 21.8 32.6

142 85.8 66.8 100.2

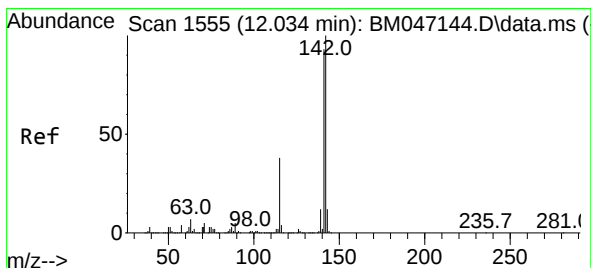
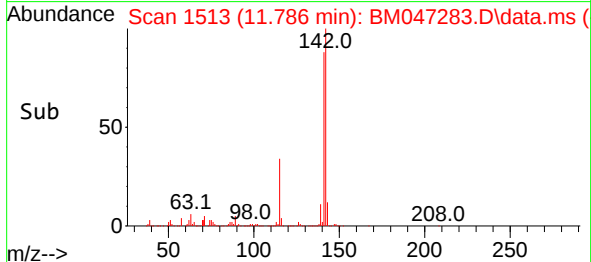
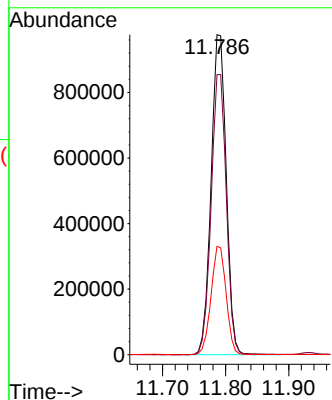
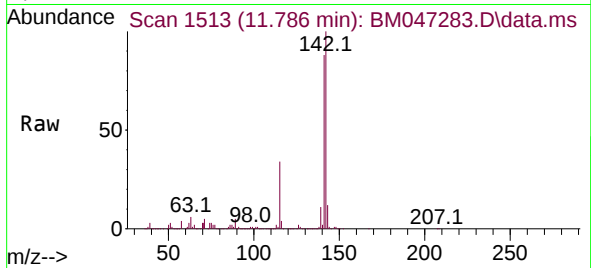




#37
2-Methylnaphthalene
Concen: 41.607 ng
RT: 11.786 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

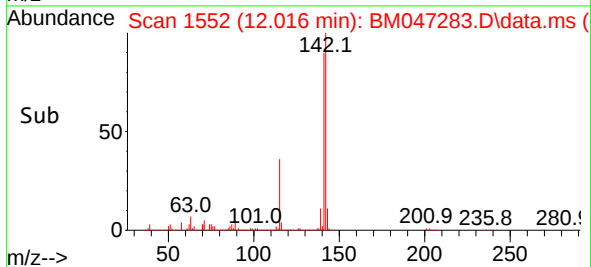
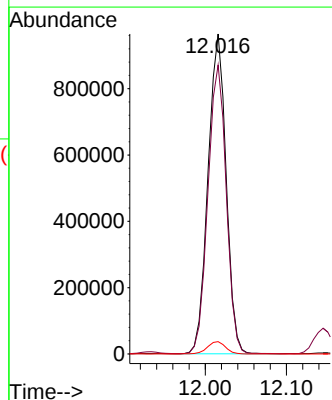
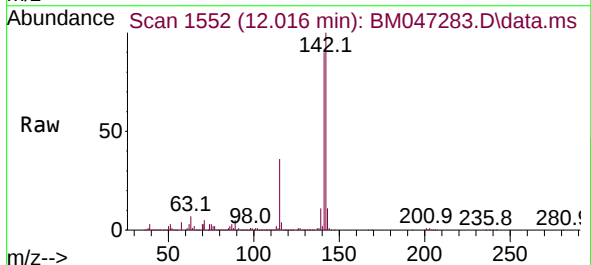
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:142 Resp: 1622104
Ion Ratio Lower Upper
142 100
141 87.5 70.9 106.3
115 33.8 28.7 43.1



#38
1-Methylnaphthalene
Concen: 38.719 ng
RT: 12.016 min Scan# 1552
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:142 Resp: 1491869
Ion Ratio Lower Upper
142 100
141 90.3 74.6 111.8
116 3.8 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.016 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

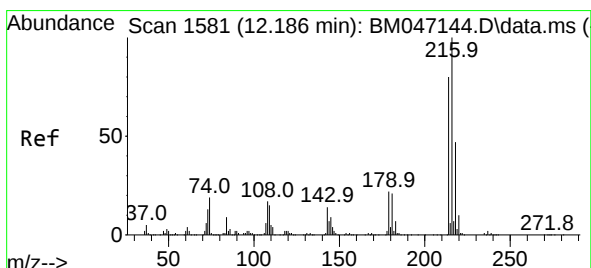
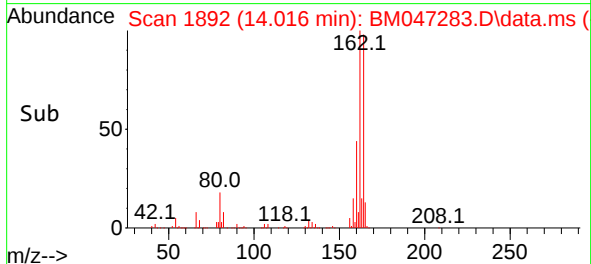
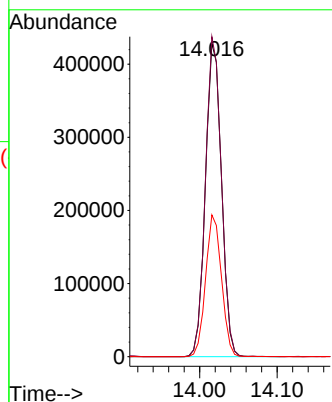
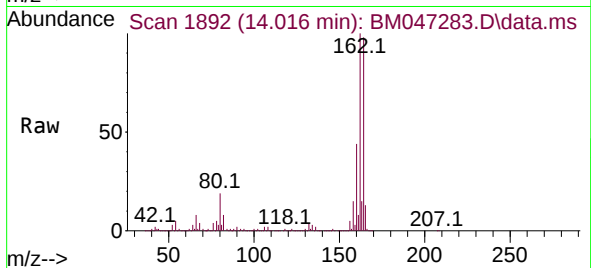
Tgt Ion:164 Resp: 618026

Ion Ratio Lower Upper

164 100

162 102.1 80.7 121.1

160 45.2 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 52.749 ng

RT: 12.175 min Scan# 1579

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Tgt Ion:216 Resp: 889186

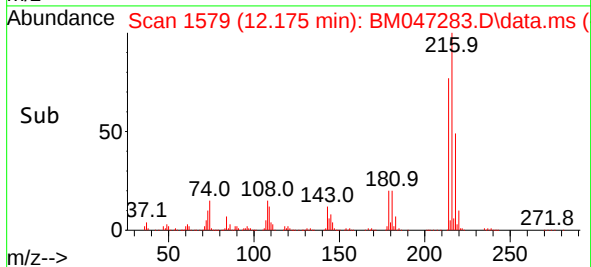
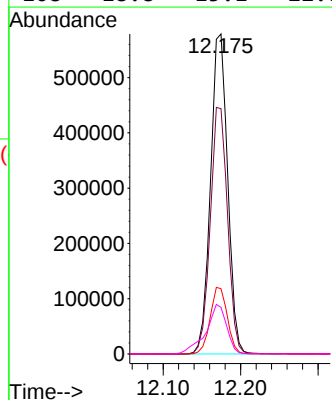
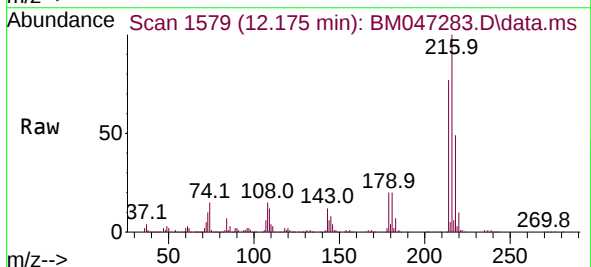
Ion Ratio Lower Upper

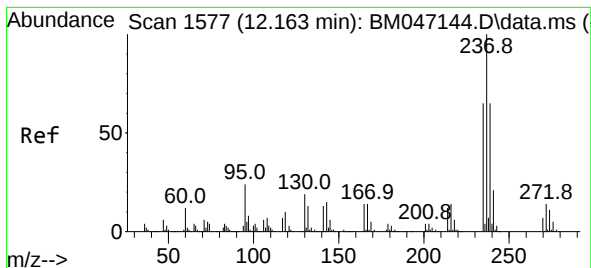
216 100

214 77.7 63.4 95.2

179 20.8 17.6 26.4

108 18.8 15.1 22.7





#41

Hexachlorocyclopentadiene

Concen: 171.140 ng

RT: 12.145 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

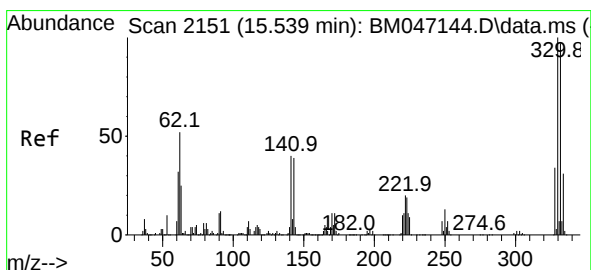
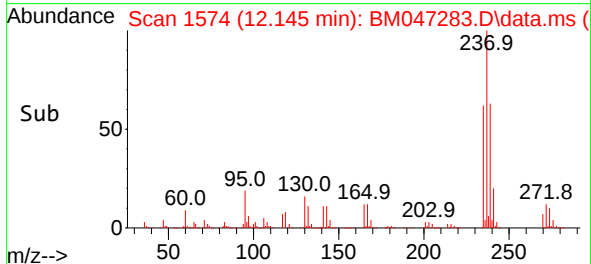
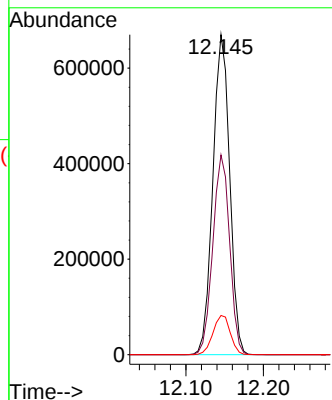
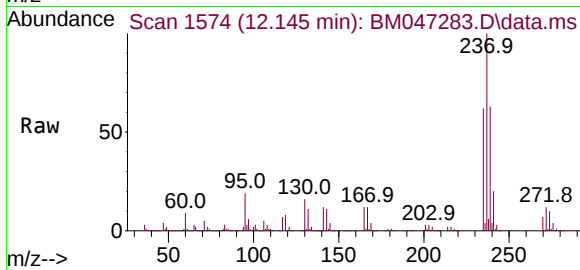
BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion:237 Resp: 1007368

Ion	Ratio	Lower	Upper
237	100		
235	62.4	44.8	84.8
272	12.2	0.0	33.5



#42

2,4,6-Tribromophenol

Concen: 101.576 ng

RT: 15.527 min Scan# 2149

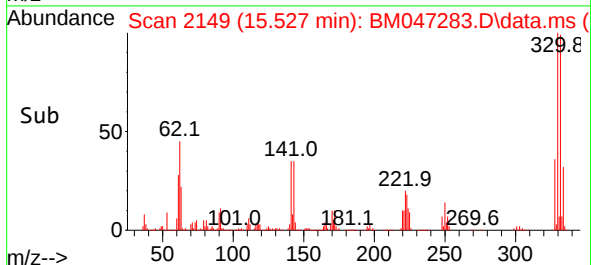
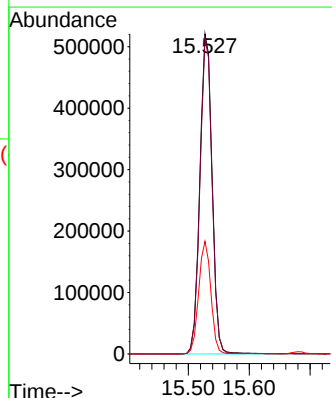
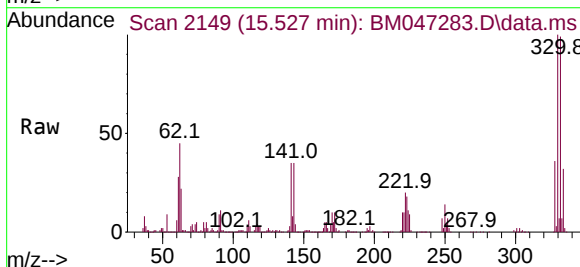
Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Tgt Ion:330 Resp: 727902

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.4	116.2
141	35.0	31.6	47.4





#43

2,4,6-Trichlorophenol

Concen: 49.335 ng

RT: 12.433 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

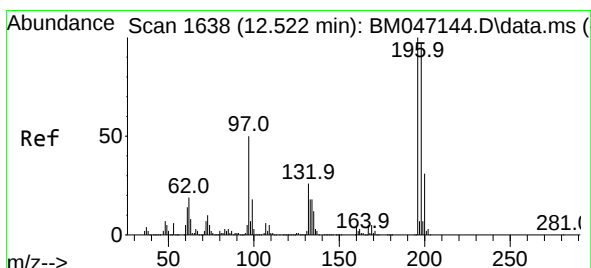
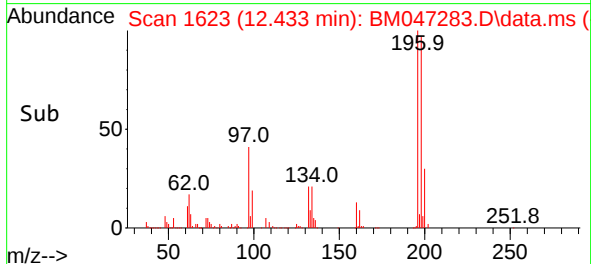
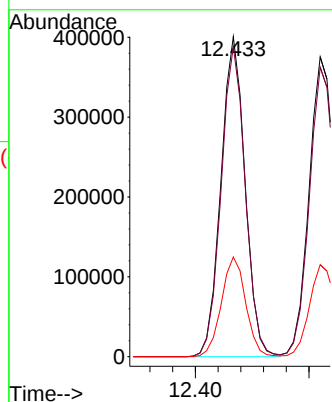
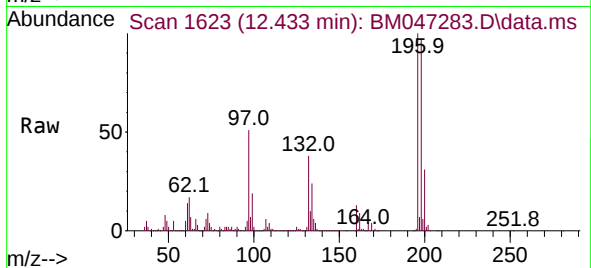
Tgt Ion:196 Resp: 591106

Ion Ratio Lower Upper

196 100

198 96.9 75.6 113.4

200 31.2 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 46.834 ng

RT: 12.510 min Scan# 1636

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Tgt Ion:196 Resp: 623033

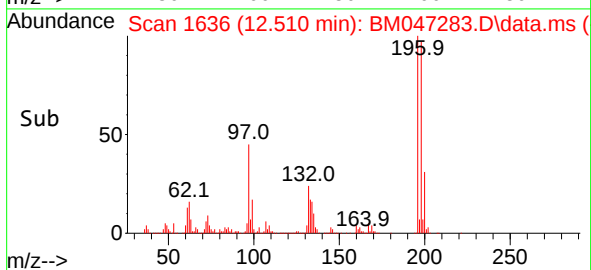
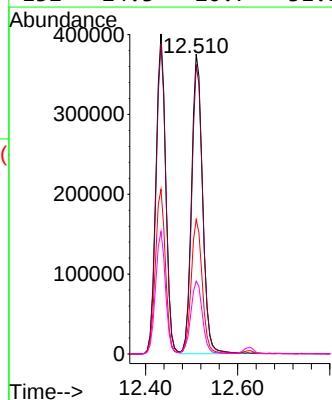
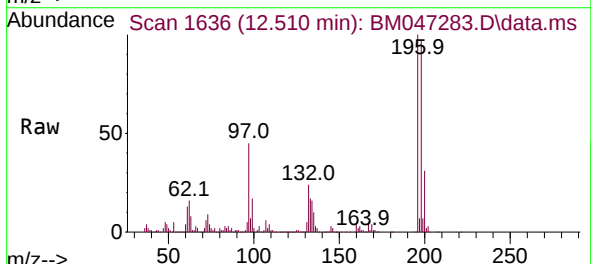
Ion Ratio Lower Upper

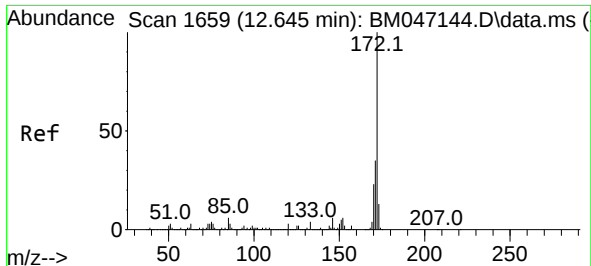
196 100

198 96.5 77.7 116.5

97 44.8 39.8 59.8

132 24.3 20.7 31.1

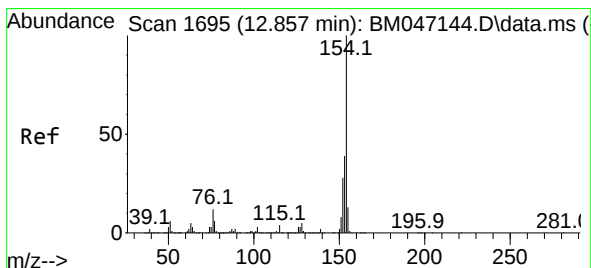
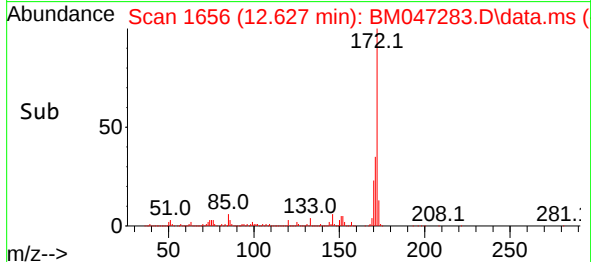
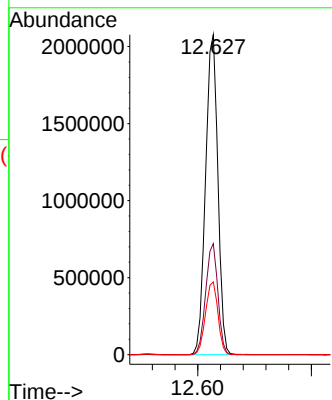
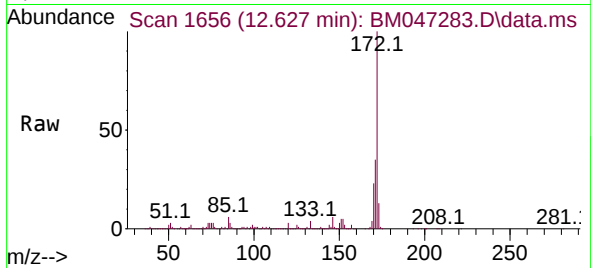




#45
2-Fluorobiphenyl
Concen: 77.607 ng
RT: 12.627 min Scan# 1656
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

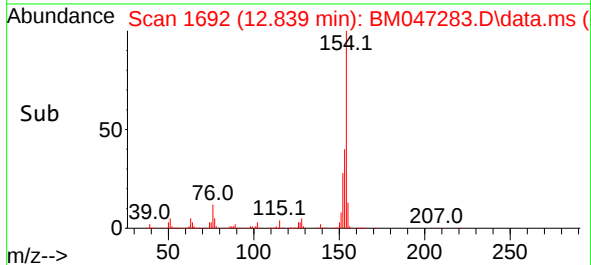
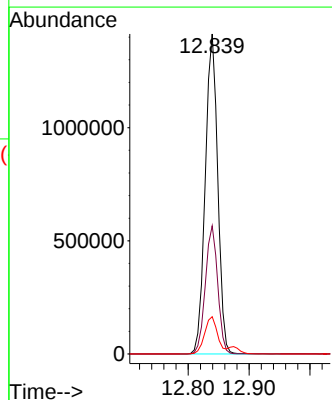
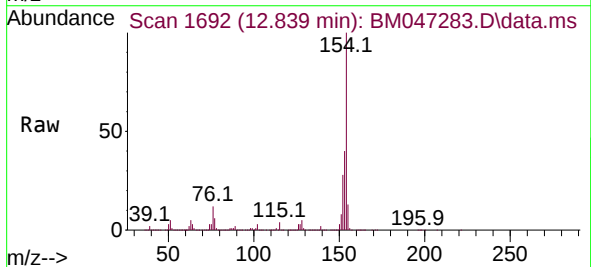
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

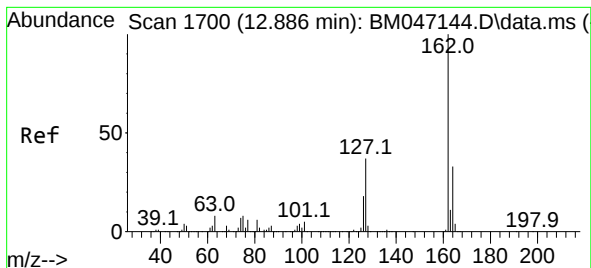
Tgt Ion:172 Resp: 3109372
Ion Ratio Lower Upper
172 100
171 34.7 27.8 41.6
170 22.7 18.7 28.1



#46
1,1'-Biphenyl
Concen: 45.714 ng
RT: 12.839 min Scan# 1692
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:154 Resp: 2011327
Ion Ratio Lower Upper
154 100
153 40.1 19.0 59.0
76 11.6 0.0 31.9





#47

2-Chloronaphthalene

Concen: 45.147 ng

RT: 12.875 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

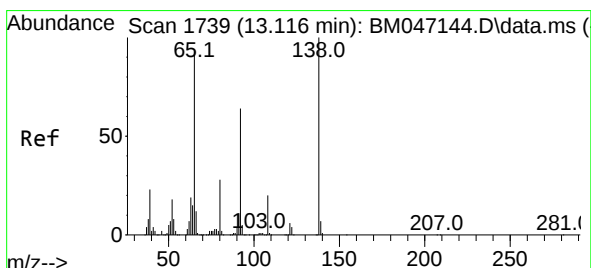
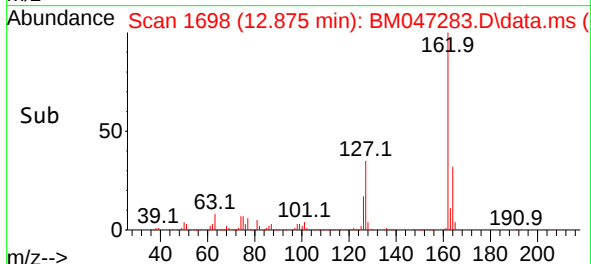
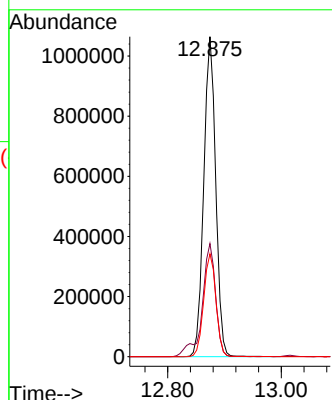
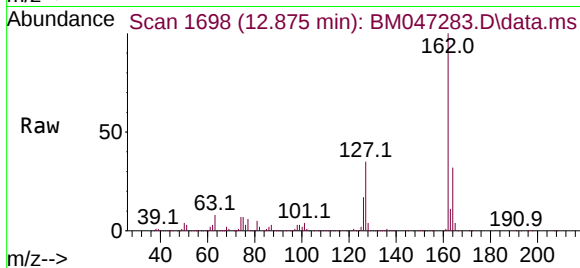
Tgt Ion:162 Resp: 1552570

Ion Ratio Lower Upper

162 100

127 35.4 30.0 45.0

164 32.1 26.3 39.5



#48

2-Nitroaniline

Concen: 41.218 ng

RT: 13.104 min Scan# 1737

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

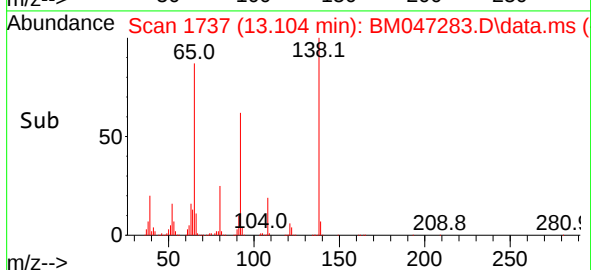
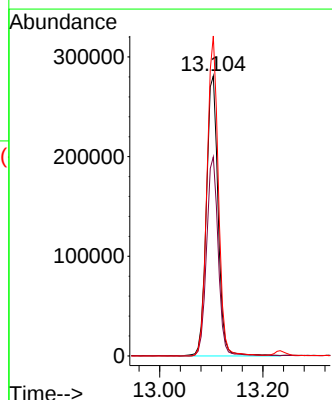
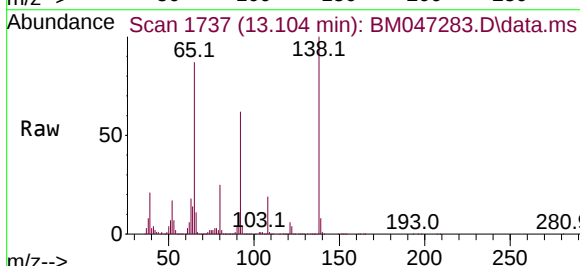
Tgt Ion: 65 Resp: 444066

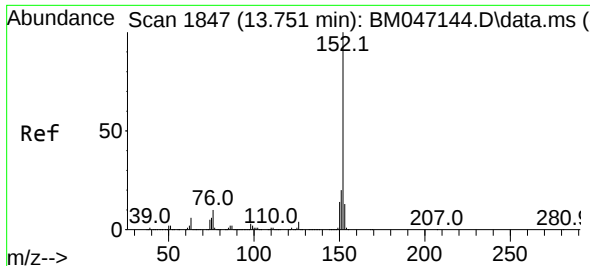
Ion Ratio Lower Upper

65 100

92 71.1 55.1 82.7

138 114.3 85.9 128.9

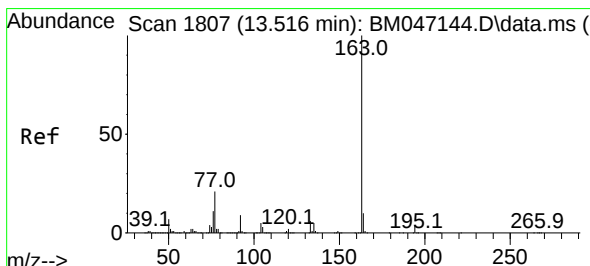
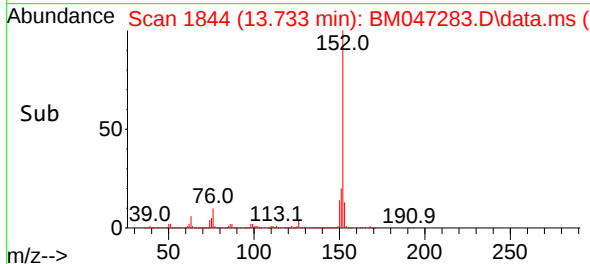
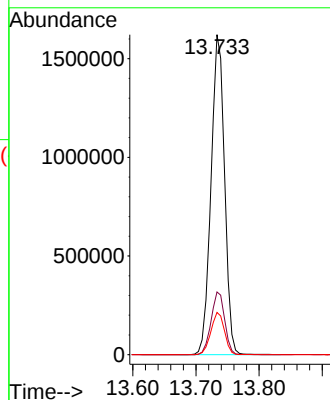
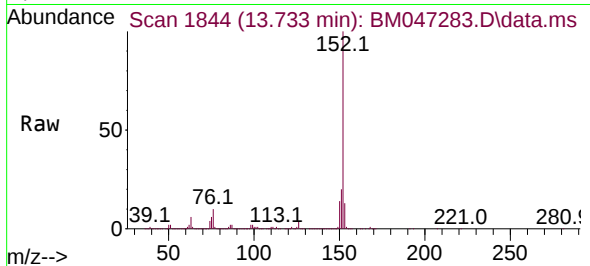




#49
Acenaphthylene
Concen: 47.599 ng
RT: 13.733 min Scan# 1844
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

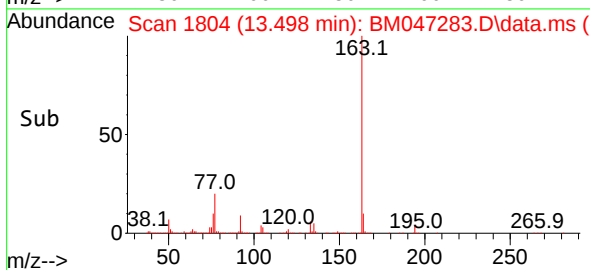
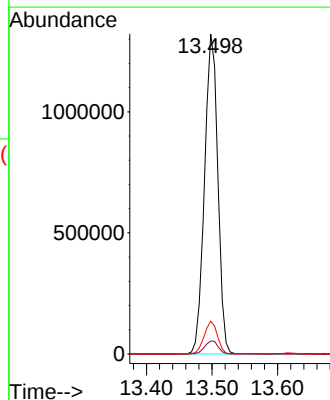
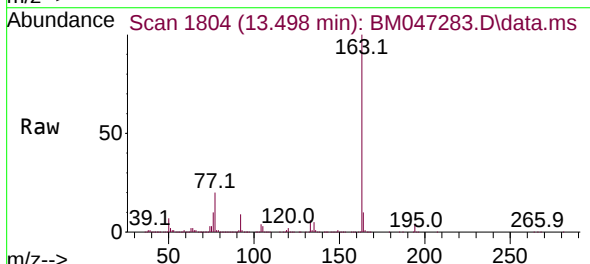
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

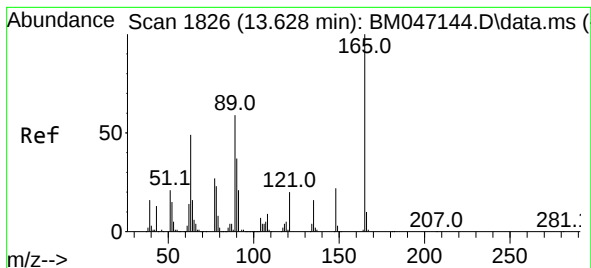
Tgt Ion:152 Resp: 2412842
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.6
153 13.2 10.4 15.6



#50
Dimethylphthalate
Concen: 43.271 ng
RT: 13.498 min Scan# 1804
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:163 Resp: 1867732
Ion Ratio Lower Upper
163 100
194 4.1 3.0 4.6
164 10.3 8.0 12.0

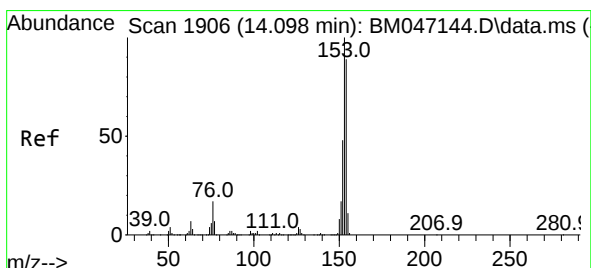
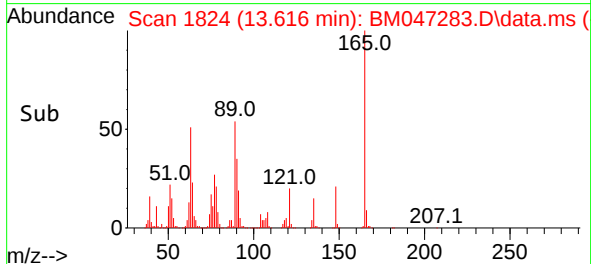
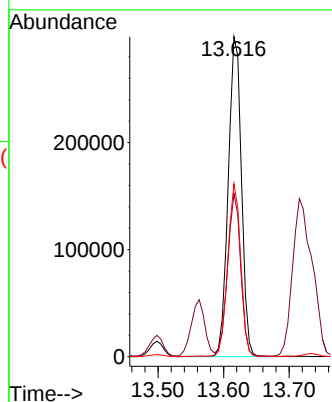
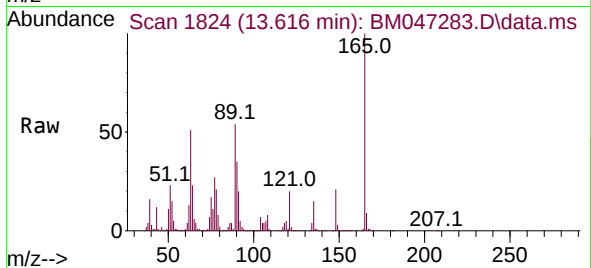




#51
2,6-Dinitrotoluene
Concen: 41.536 ng
RT: 13.616 min Scan# 1824
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

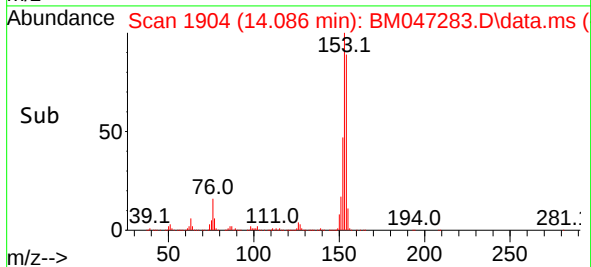
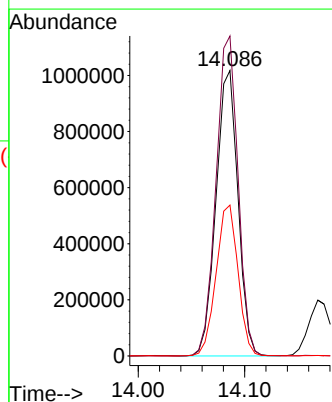
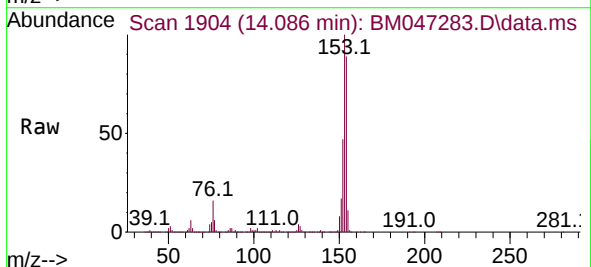
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

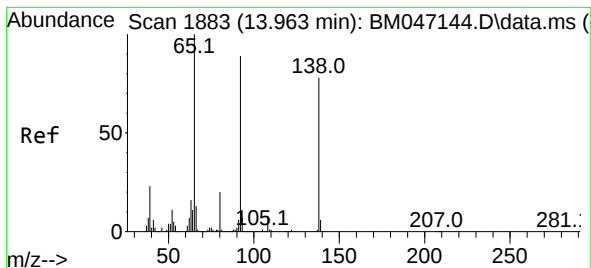
Tgt Ion:165 Resp: 419095
Ion Ratio Lower Upper
165 100
63 50.9 46.5 69.7
89 54.0 47.3 70.9



#52
Acenaphthene
Concen: 45.231 ng
RT: 14.086 min Scan# 1904
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:154 Resp: 1454370
Ion Ratio Lower Upper
154 100
153 112.1 90.3 135.5
152 52.8 42.9 64.3

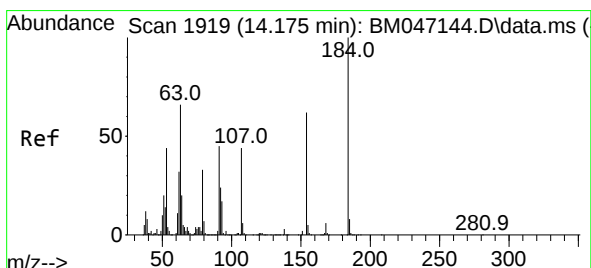
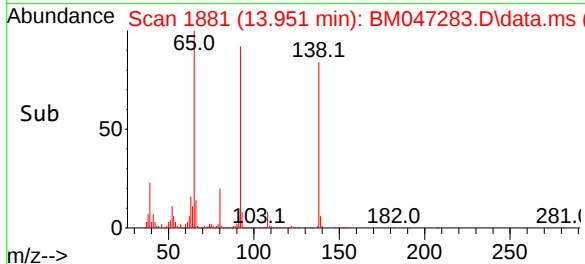
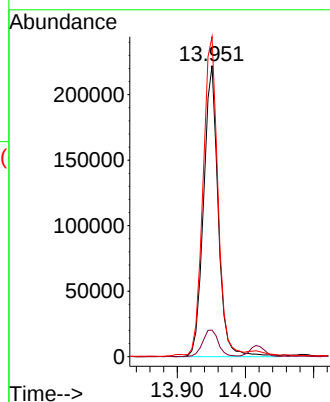
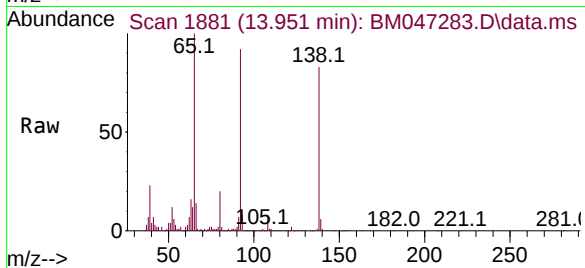




#53
3-Nitroaniline
Concen: 32.751 ng
RT: 13.951 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

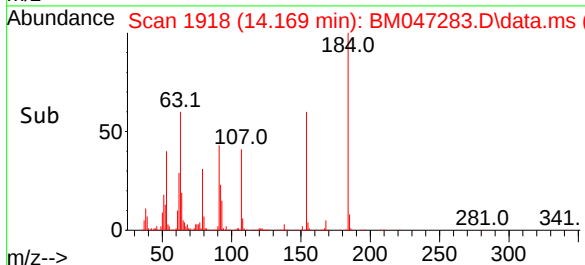
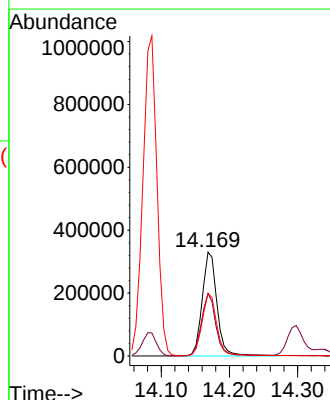
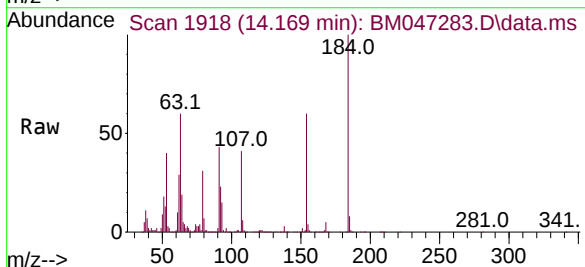
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

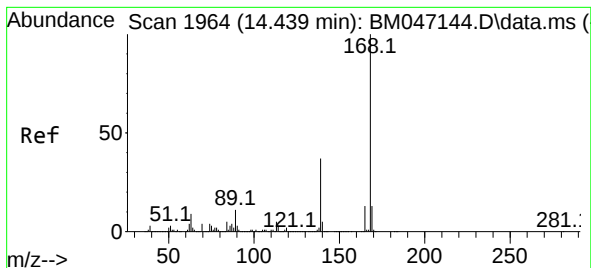
Tgt Ion:138 Resp: 331130
Ion Ratio Lower Upper
138 100
108 9.2 7.9 11.9
92 110.0 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 82.288 ng
RT: 14.169 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:184 Resp: 497628
Ion Ratio Lower Upper
184 100
63 60.0 52.7 79.1
154 60.2 50.4 75.6





#55

Dibenzenofuran

Concen: 43.777 ng

RT: 14.427 min Scan# 1962

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

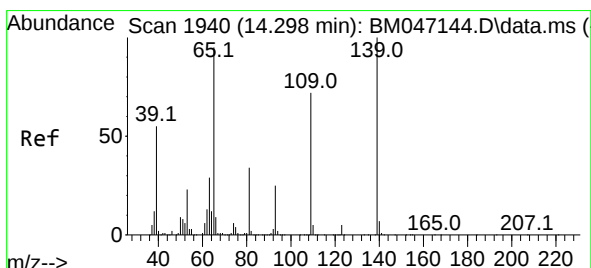
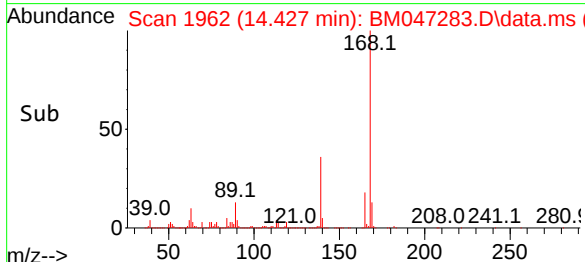
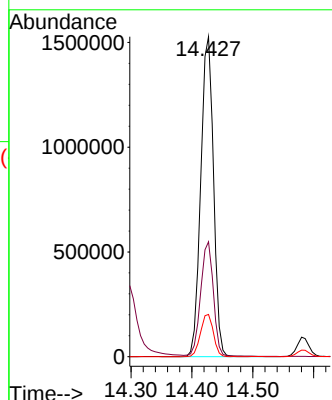
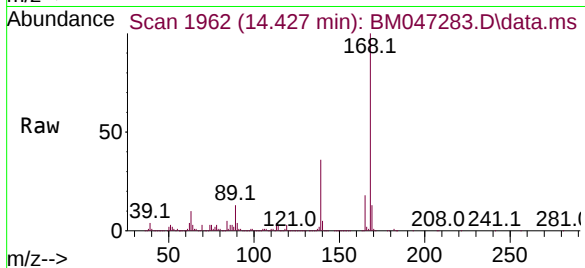
Tgt Ion:168 Resp: 2223413

Ion Ratio Lower Upper

168 100

139 35.9 29.6 44.4

169 13.2 10.7 16.1



#56

4-Nitrophenol

Concen: 72.039 ng

RT: 14.298 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

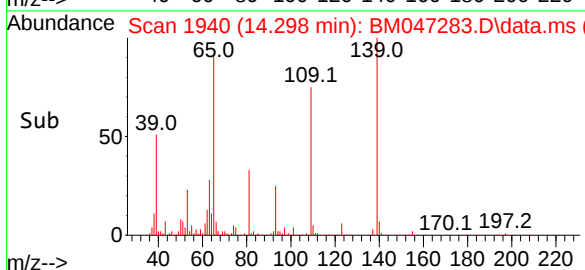
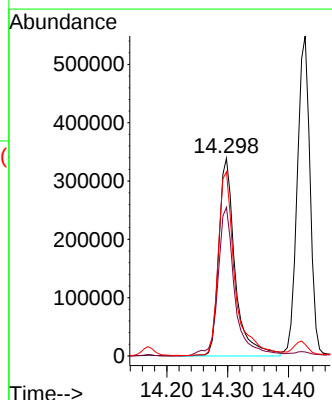
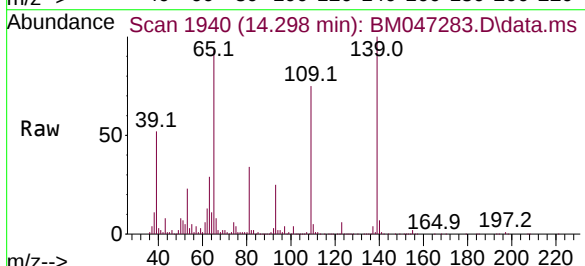
Tgt Ion:139 Resp: 628067

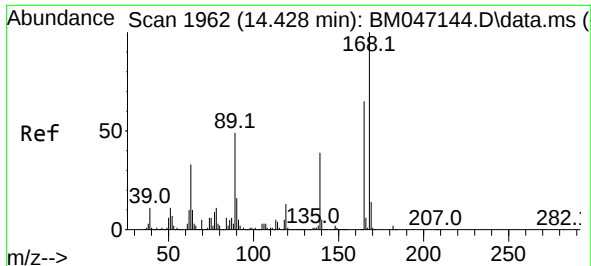
Ion Ratio Lower Upper

139 100

109 75.2 52.5 92.5

65 93.2 75.4 115.4





#57

2,4-Dinitrotoluene

Concen: 39.473 ng

RT: 14.421 min Scan# 1962

Delta R.T. -0.006 min

Lab File: BM047283.D

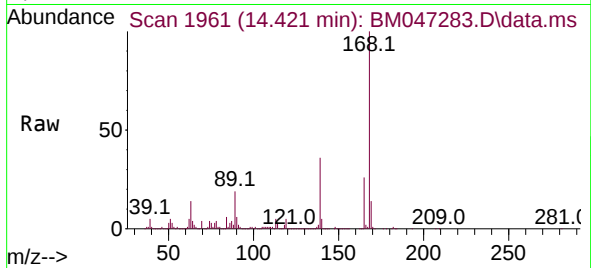
Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS



Tgt Ion:165 Resp: 531616

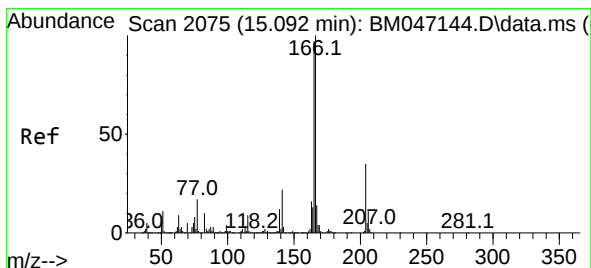
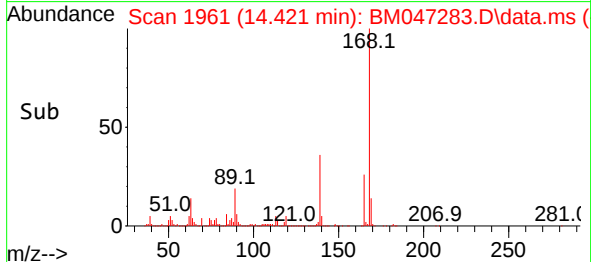
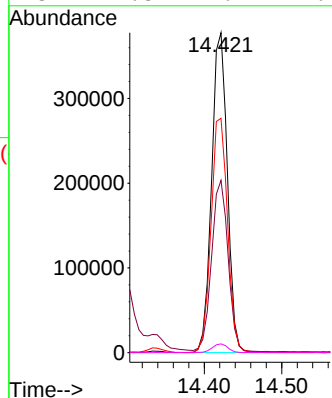
Ion Ratio Lower Upper

165 100

63 53.9 40.3 60.5

89 73.3 61.0 91.6

182 2.8 1.9 2.9



#58

Fluorene

Concen: 41.688 ng

RT: 15.080 min Scan# 2073

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

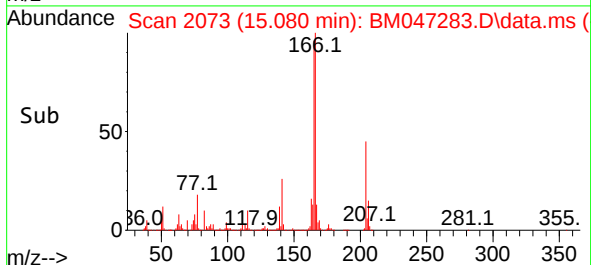
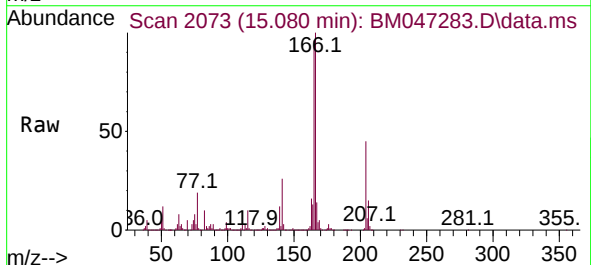
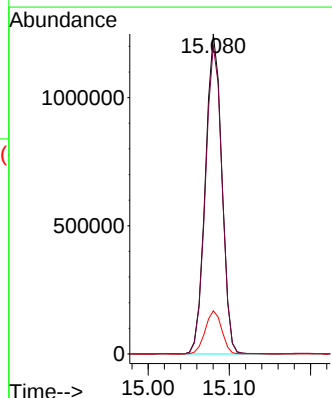
Tgt Ion:166 Resp: 1747017

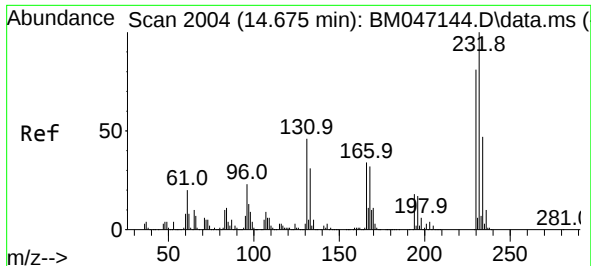
Ion Ratio Lower Upper

166 100

165 96.3 77.4 116.0

167 13.5 11.0 16.6

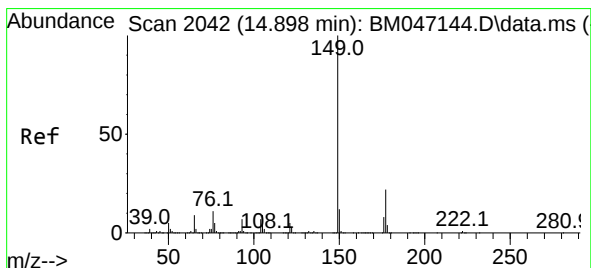
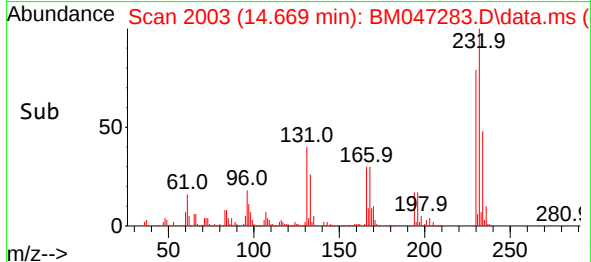
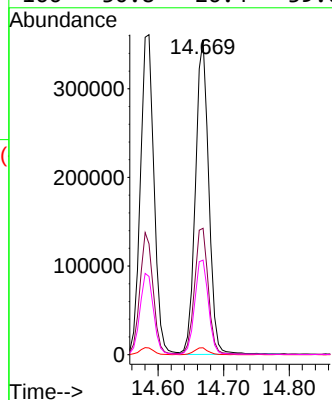
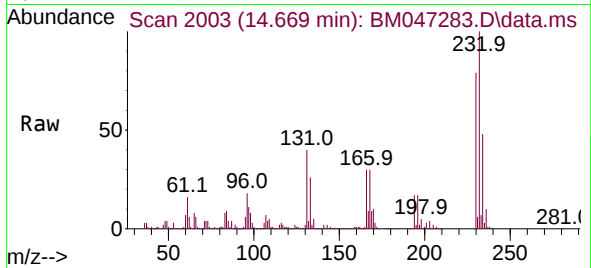




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.832 ng
RT: 14.669 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

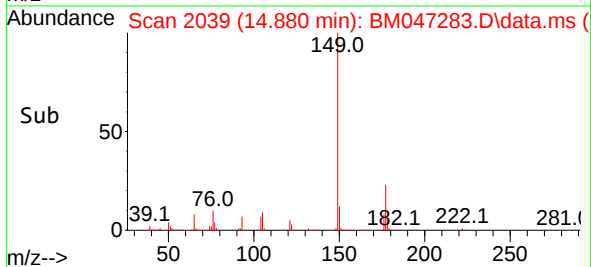
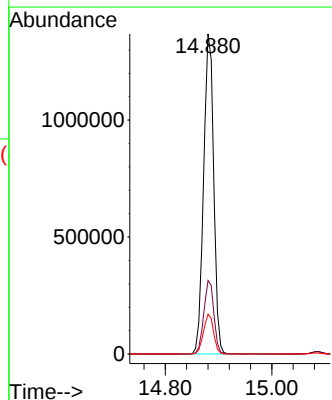
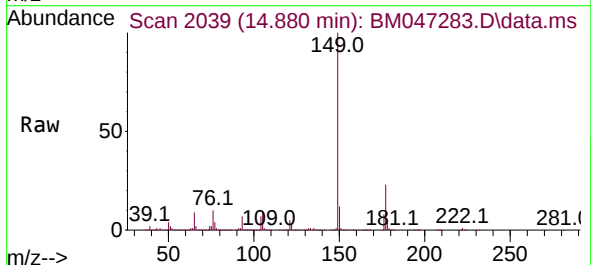
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

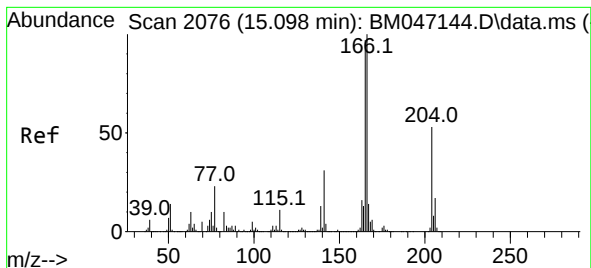
Tgt Ion:232 Resp: 501087
Ion Ratio Lower Upper
232 100
131 41.6 36.9 55.3
130 2.3 2.0 3.0
166 30.8 26.4 39.6



#60
Diethylphthalate
Concen: 40.720 ng
RT: 14.880 min Scan# 2039
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:149 Resp: 1794832
Ion Ratio Lower Upper
149 100
177 22.9 17.6 26.4
150 12.4 9.8 14.6

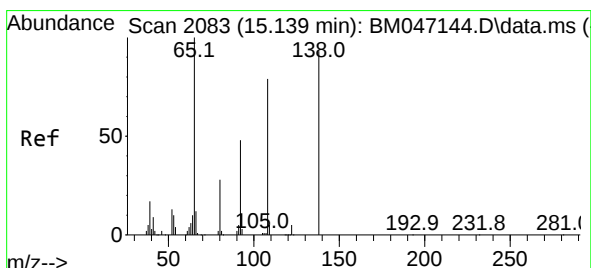
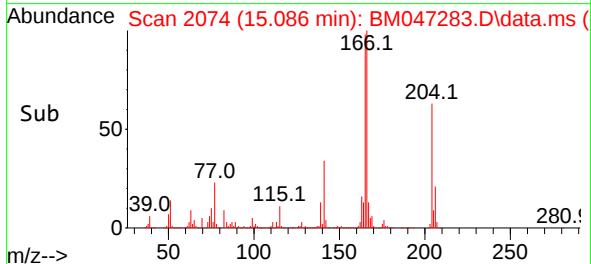
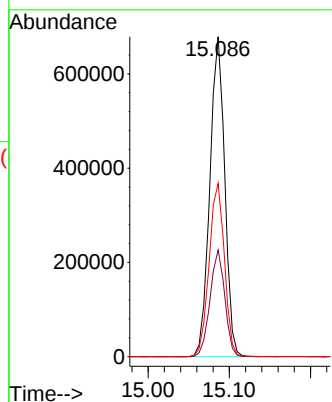
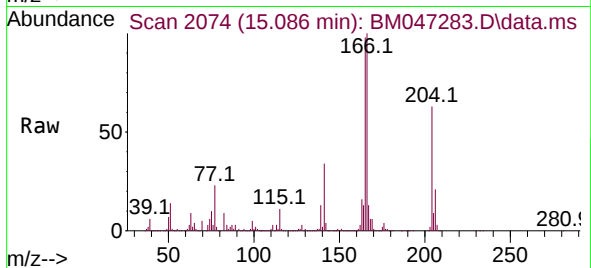




#61
4-Chlorophenyl-phenylether
Concen: 43.338 ng
RT: 15.086 min Scan# 2076
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

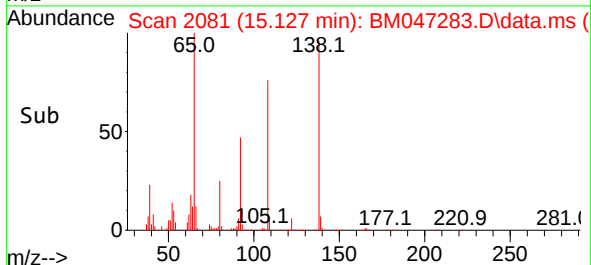
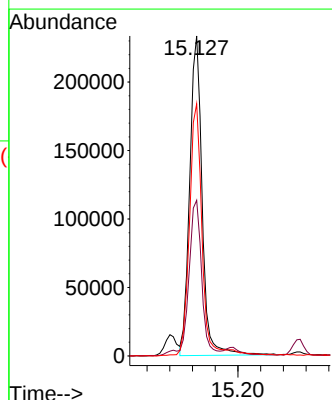
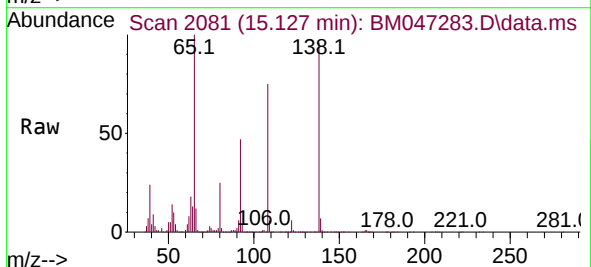
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

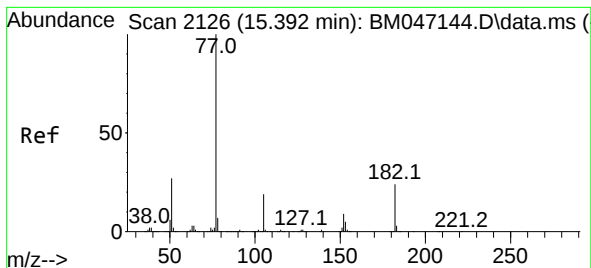
Tgt Ion:204 Resp: 864646
Ion Ratio Lower Upper
204 100
206 33.4 26.2 39.4
141 54.2 47.2 70.8



#62
4-Nitroaniline
Concen: 35.624 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:138 Resp: 354842
Ion Ratio Lower Upper
138 100
92 48.6 31.9 71.9
108 78.8 63.8 103.8





#63

Azobenzene

Concen: 39.139 ng

RT: 15.380 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion: 77 Resp: 1635743

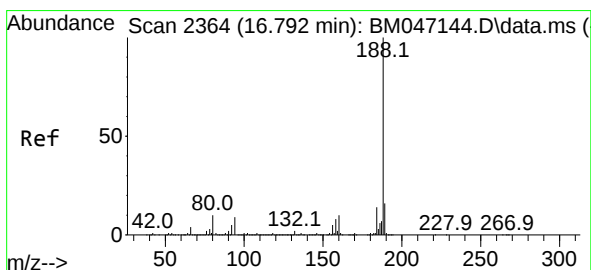
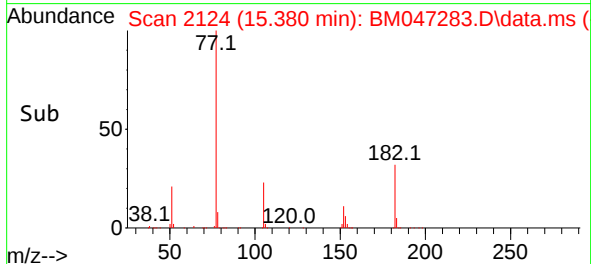
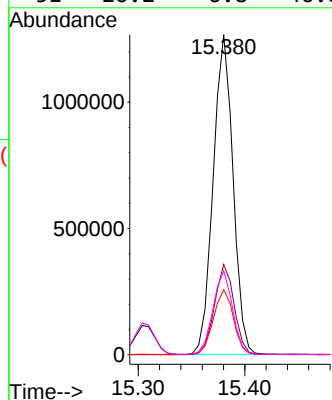
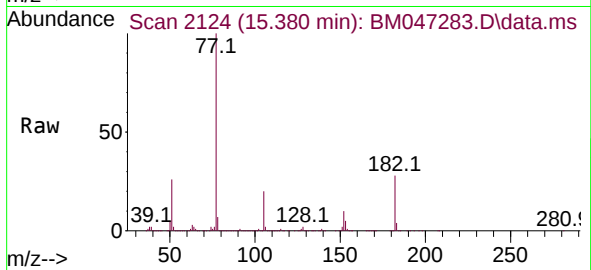
Ion Ratio Lower Upper

77 100

182 28.2 3.8 43.8

105 20.3 0.0 39.5

51 26.2 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: BM047283.D

Acq: 20 Aug 2024 23:34

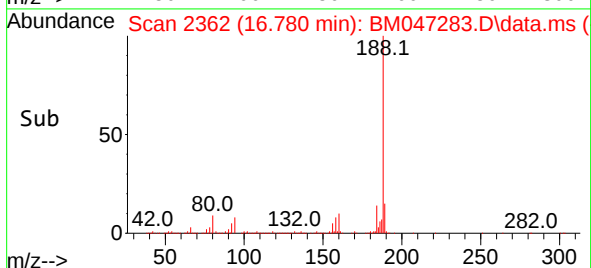
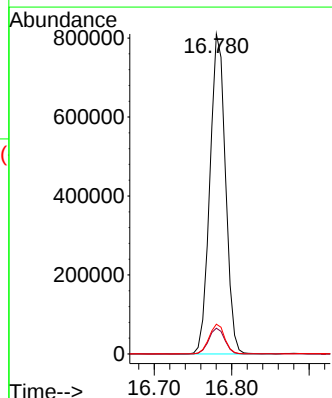
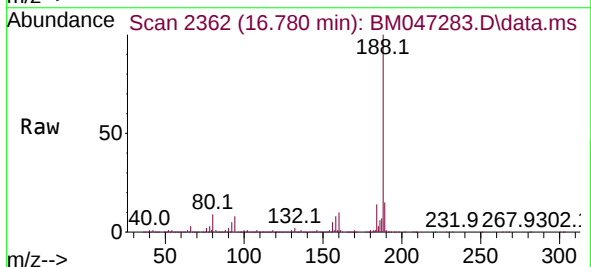
Tgt Ion:188 Resp: 1134376

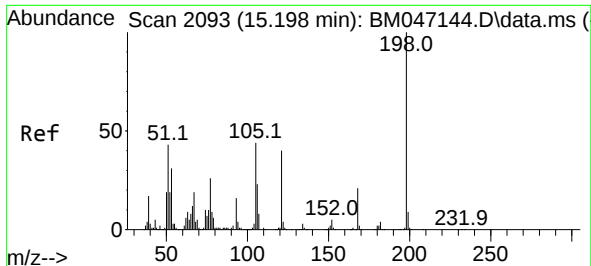
Ion Ratio Lower Upper

188 100

94 8.0 7.0 10.6

80 9.3 8.0 12.0

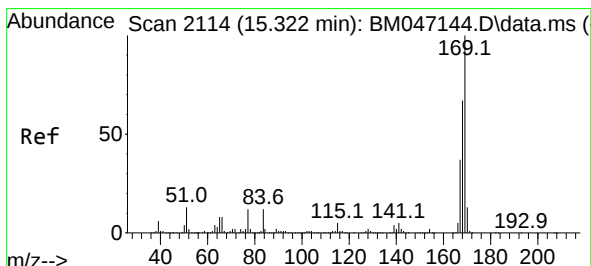
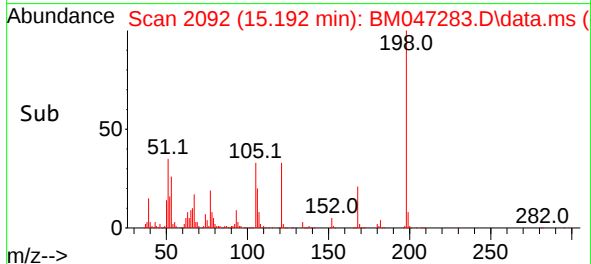
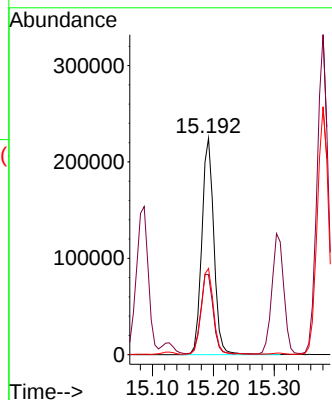
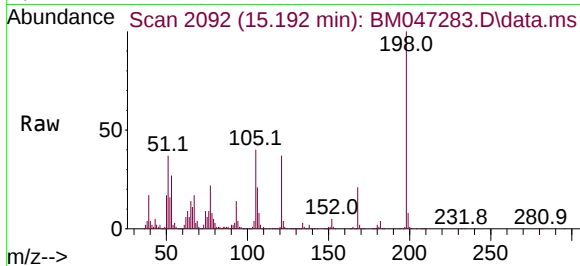




#65
4,6-Dinitro-2-methylphenol
Concen: 46.427 ng
RT: 15.192 min Scan# 2092
Delta R.T. -0.006 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

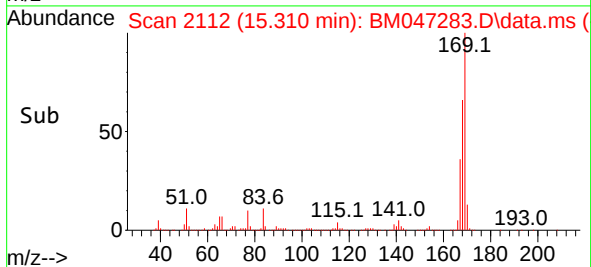
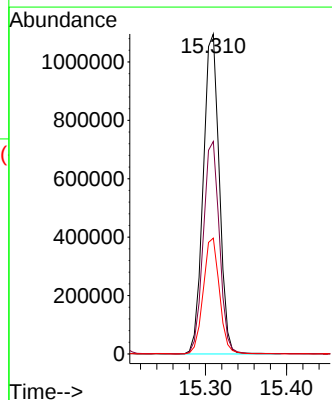
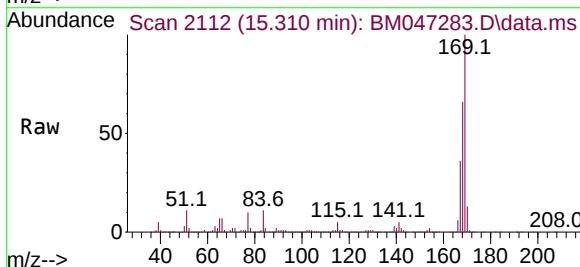
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

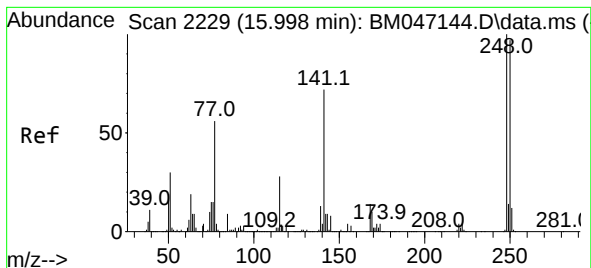
Tgt Ion:198 Resp: 308347
Ion Ratio Lower Upper
198 100
51 37.0 23.9 63.9
105 39.8 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 48.521 ng
RT: 15.310 min Scan# 2112
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:169 Resp: 1499184
Ion Ratio Lower Upper
169 100
168 66.4 53.8 80.8
167 36.2 29.3 43.9

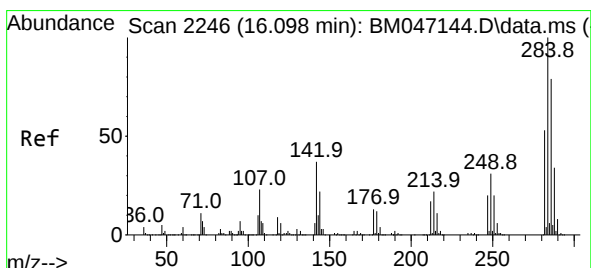
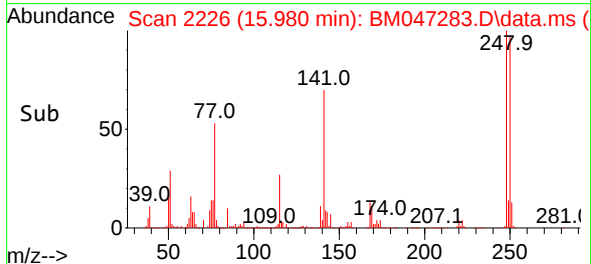
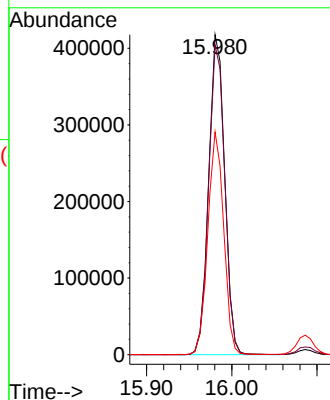
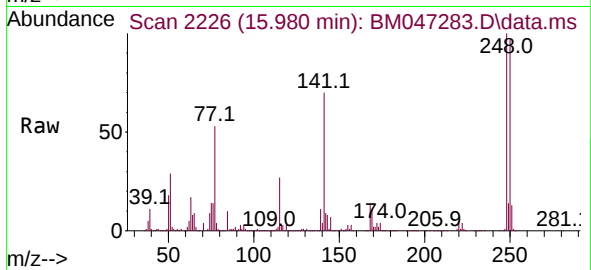




#67
4-Bromophenyl-phenylether
Concen: 50.030 ng
RT: 15.980 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

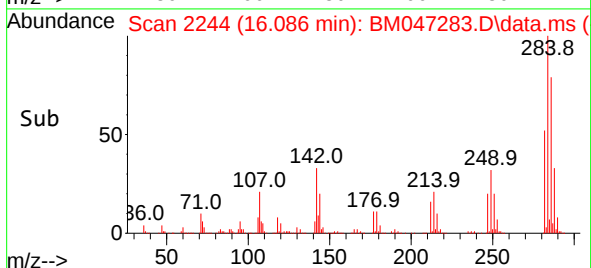
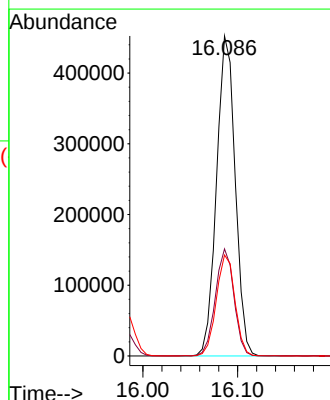
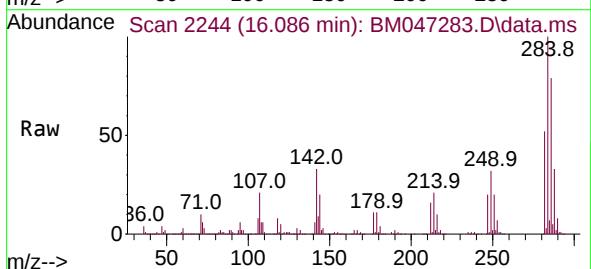
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:248 Resp: 546883
Ion Ratio Lower Upper
248 100
250 96.8 77.8 116.8
141 69.6 57.7 86.5



#68
Hexachlorobenzene
Concen: 47.350 ng
RT: 16.086 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:284 Resp: 619881
Ion Ratio Lower Upper
284 100
142 33.4 29.4 44.0
249 31.6 25.1 37.7





#69

Atrazine

Concen: 56.448 ng

RT: 16.280 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

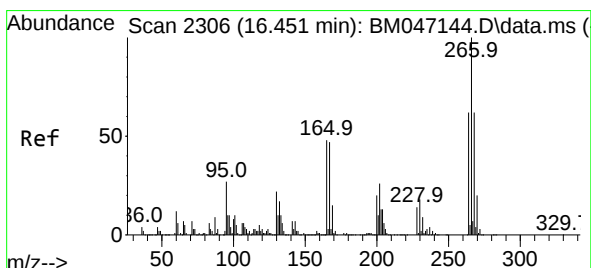
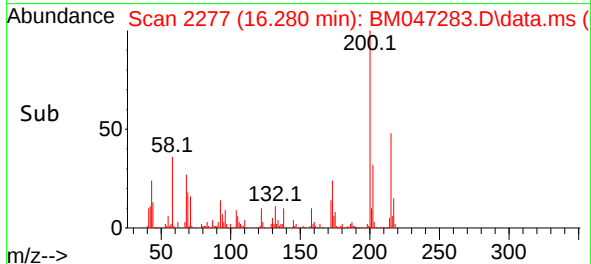
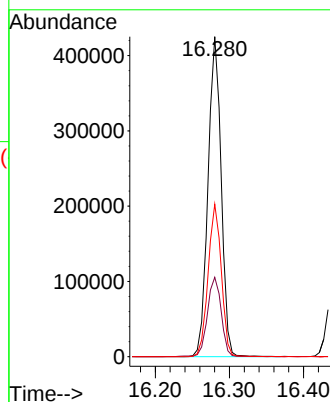
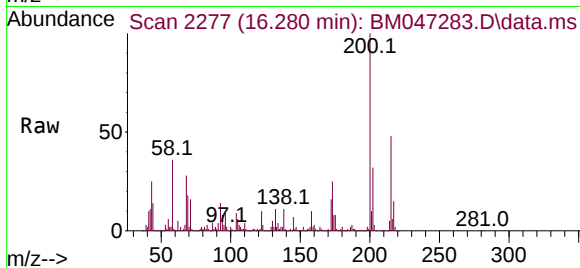
Tgt Ion:200 Resp: 524830

Ion Ratio Lower Upper

200 100

173 24.8 6.1 46.1

215 47.7 26.8 66.8



#70

Pentachlorophenol

Concen: 87.532 ng

RT: 16.445 min Scan# 2305

Delta R.T. -0.006 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

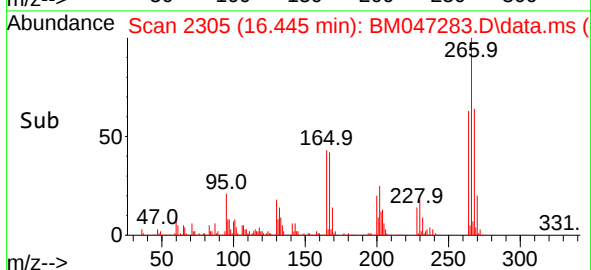
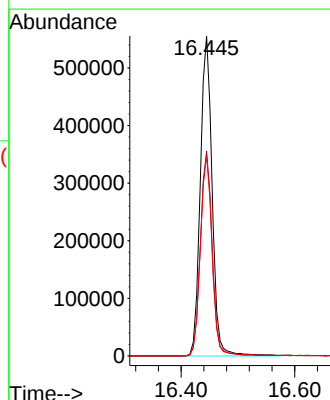
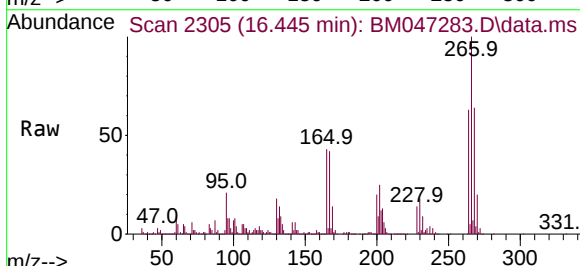
Tgt Ion:266 Resp: 803275

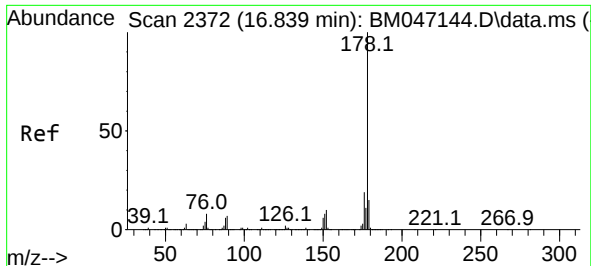
Ion Ratio Lower Upper

266 100

268 63.9 49.8 74.6

264 62.8 49.6 74.4

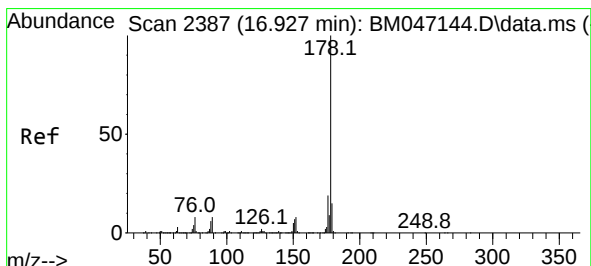
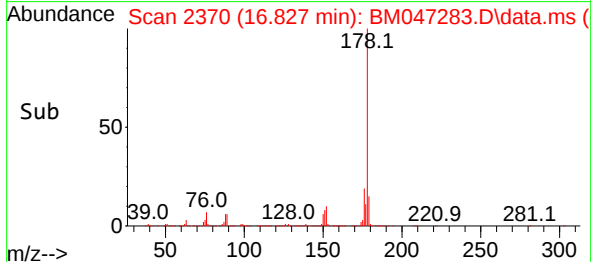
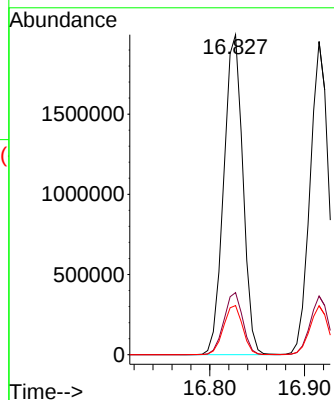
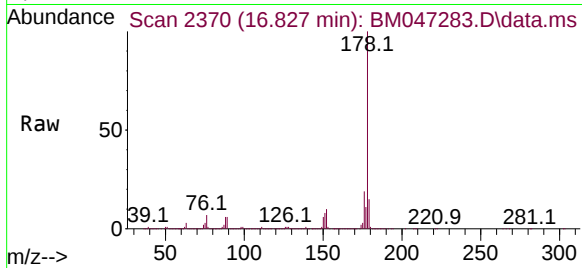




#71
Phenanthrene
Concen: 49.165 ng
RT: 16.827 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

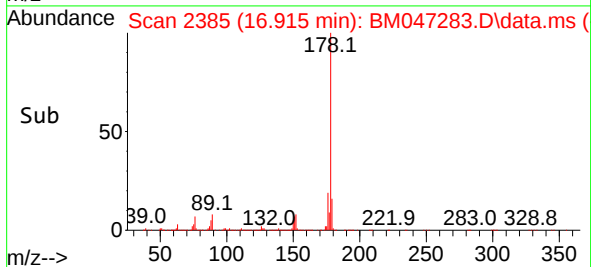
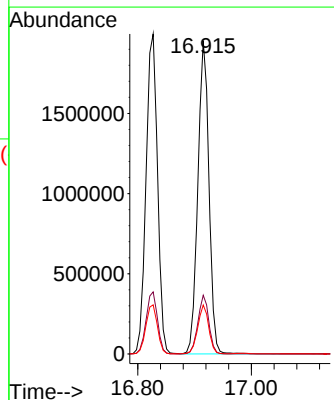
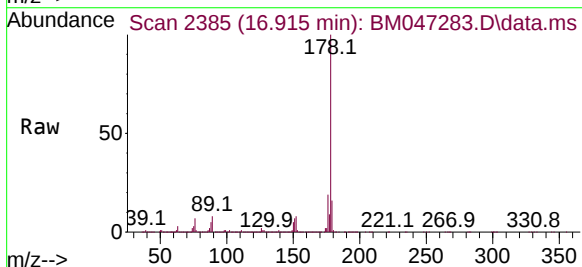
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

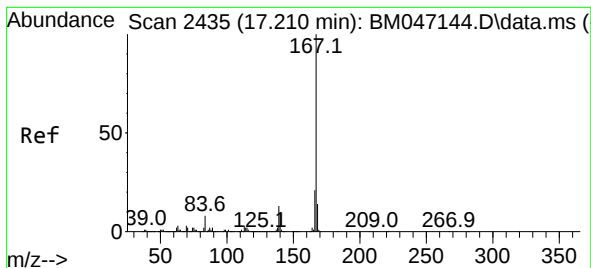
Tgt Ion:178 Resp: 2798987
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.4 18.6



#72
Anthracene
Concen: 48.022 ng
RT: 16.915 min Scan# 2385
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:178 Resp: 2660103
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 15.7 12.4 18.6





#73

Carbazole

Concen: 42.242 ng

RT: 17.198 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

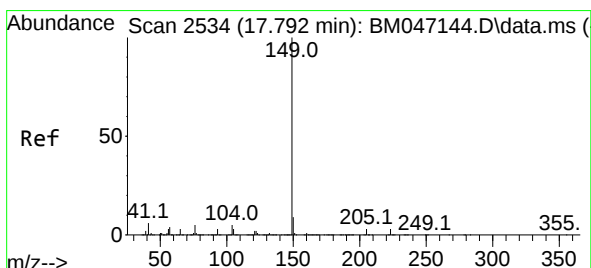
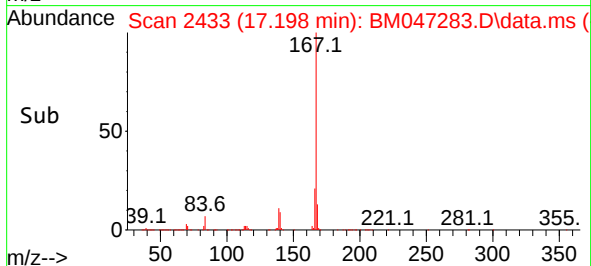
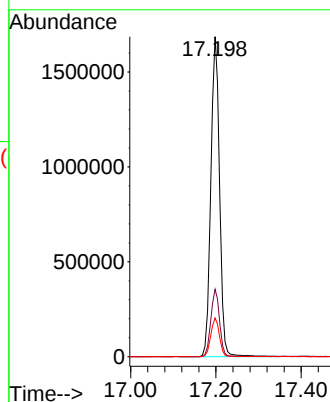
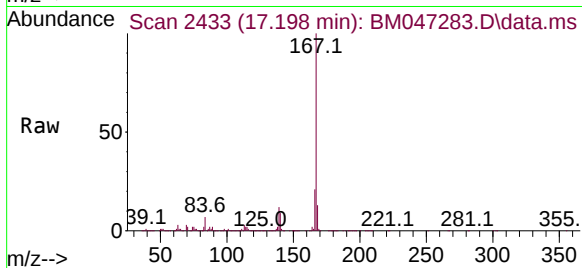
Tgt Ion:167 Resp: 2389120

Ion Ratio Lower Upper

167 100

166 21.0 17.1 25.7

139 12.1 10.0 15.0



#74

Di-n-butylphthalate

Concen: 44.641 ng

RT: 17.780 min Scan# 2532

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

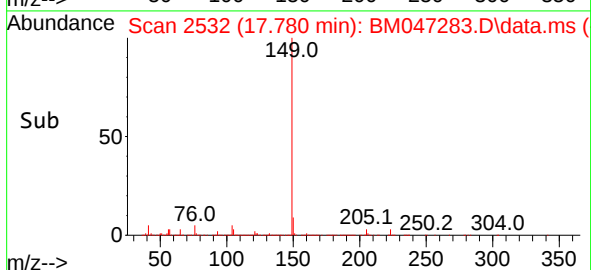
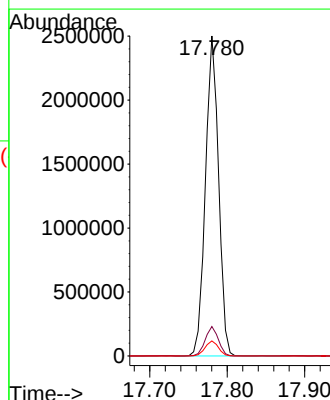
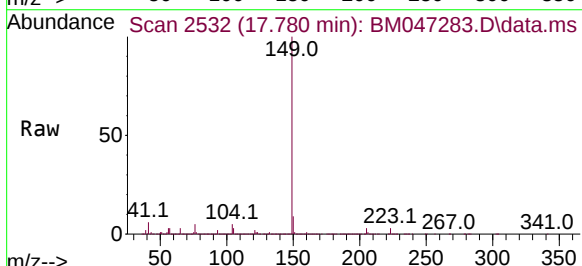
Tgt Ion:149 Resp: 2937853

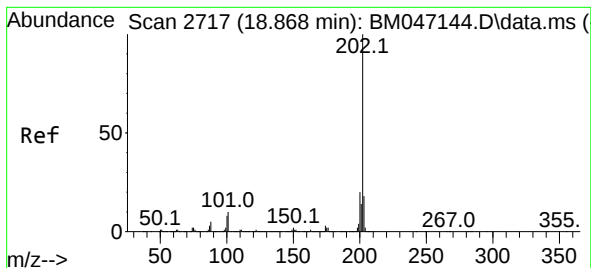
Ion Ratio Lower Upper

149 100

150 9.2 7.5 11.3

104 4.7 4.1 6.1





#75

Fluoranthene

Concen: 48.347 ng

RT: 18.862 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

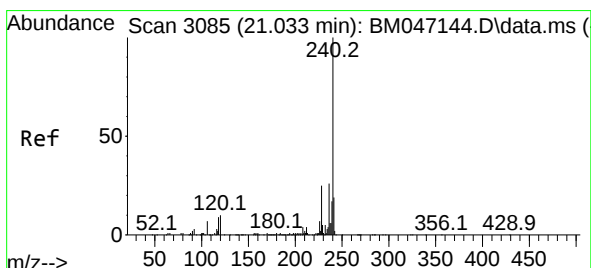
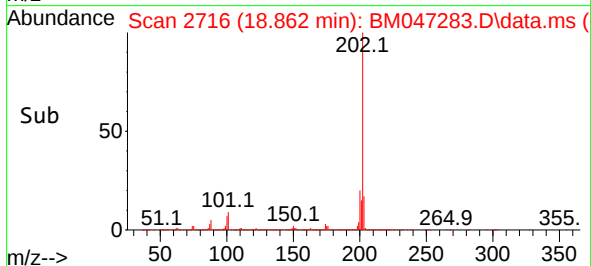
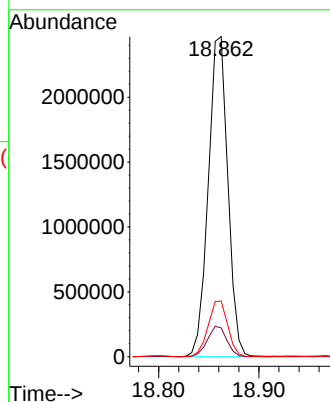
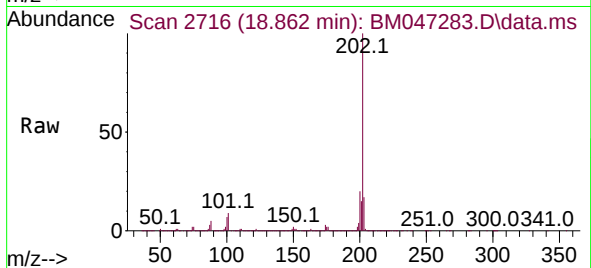
Tgt Ion:202 Resp: 3347767

Ion Ratio Lower Upper

202 100

101 9.0 0.0 30.2

203 17.4 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: BM047283.D

Acq: 20 Aug 2024 23:34

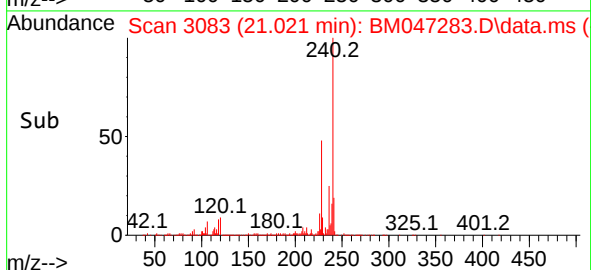
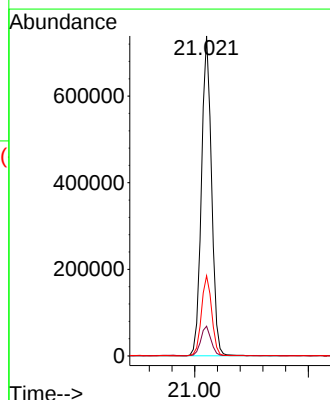
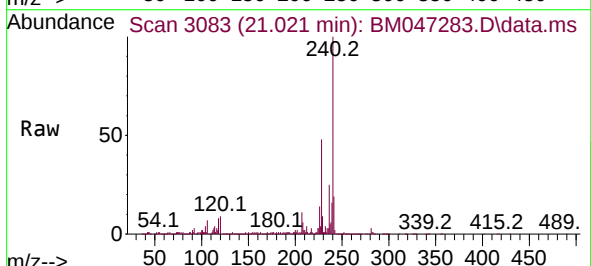
Tgt Ion:240 Resp: 911523

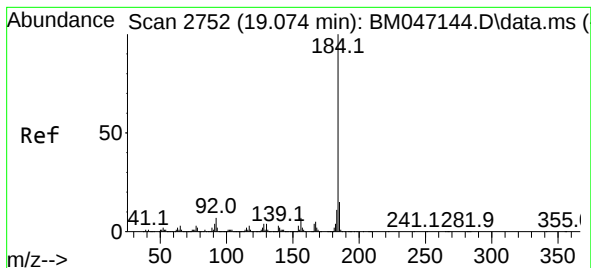
Ion Ratio Lower Upper

240 100

120 9.3 8.2 12.2

236 25.0 20.6 30.8





#77

Benzidine

Concen: 89.811 ng

RT: 19.068 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

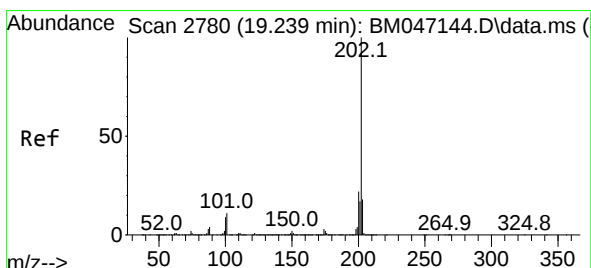
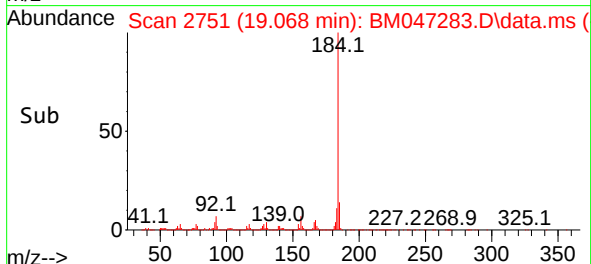
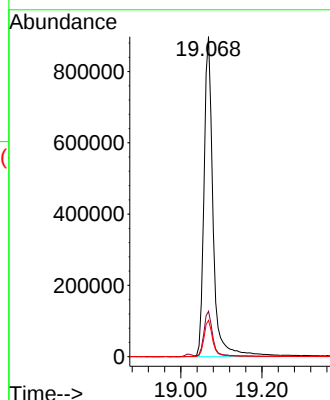
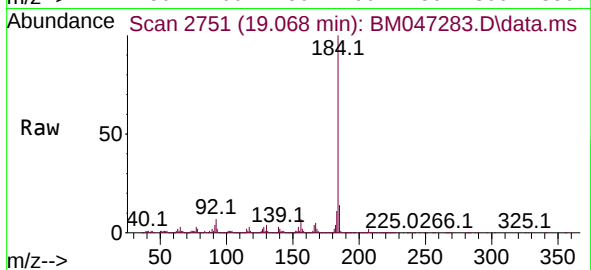
Tgt Ion:184 Resp: 1388299

Ion Ratio Lower Upper

184 100

185 14.2 11.8 17.6

183 11.4 9.0 13.6



#78

Pyrene

Concen: 53.636 ng

RT: 19.227 min Scan# 2778

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

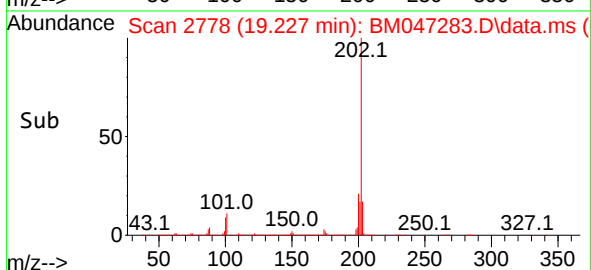
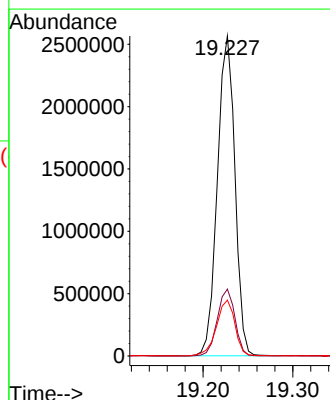
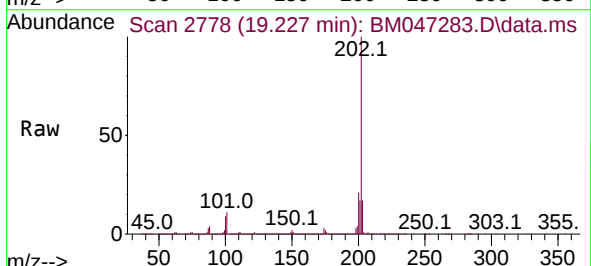
Tgt Ion:202 Resp: 3490899

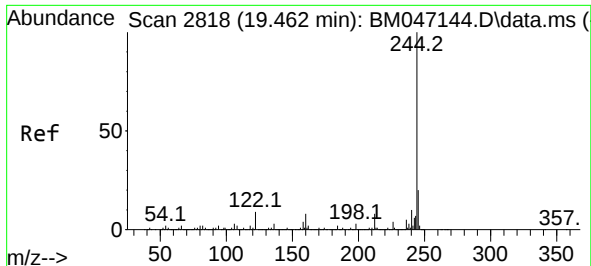
Ion Ratio Lower Upper

202 100

200 20.9 17.2 25.8

203 17.4 14.2 21.2

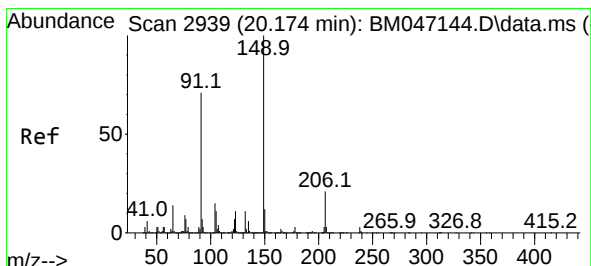
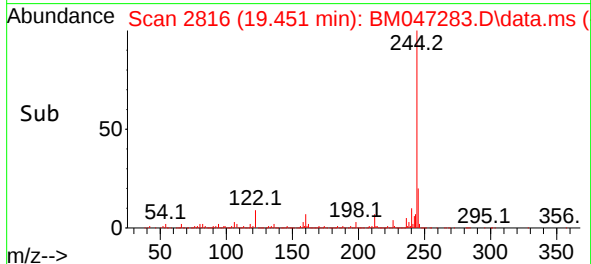
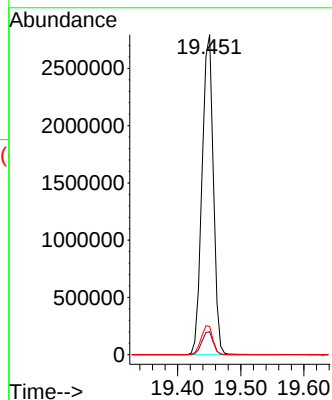
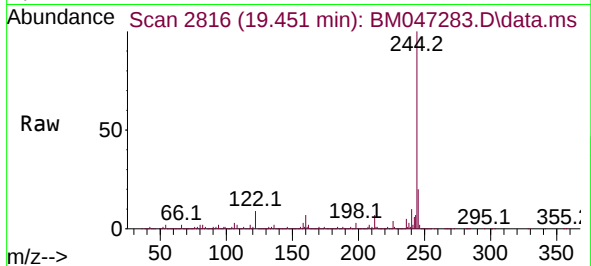




#79
 Terphenyl-d14
 Concen: 81.656 ng
 RT: 19.451 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM047283.D
 Acq: 20 Aug 2024 23:34

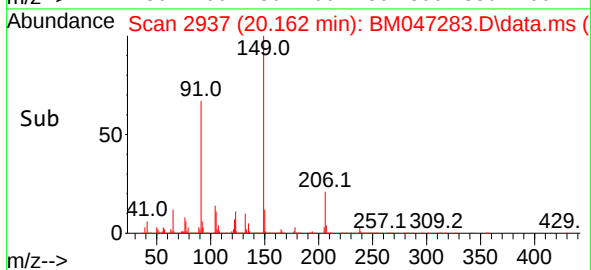
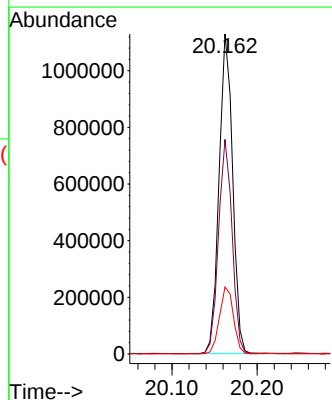
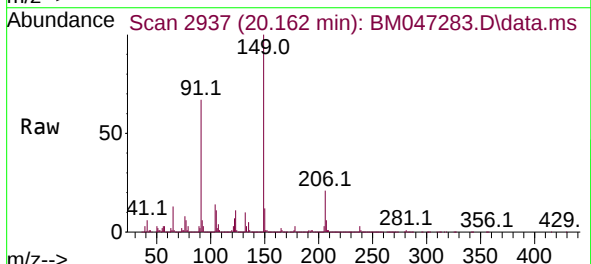
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

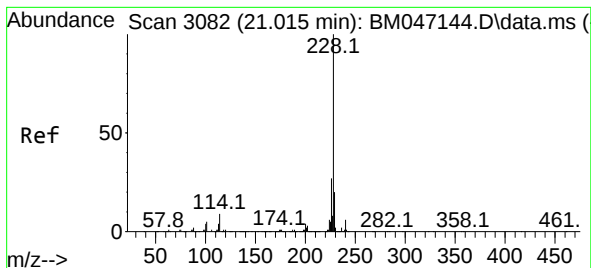
Tgt Ion:244 Resp: 3473620
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.2 9.4
 122 8.8 7.1 10.7



#80
 Butylbenzylphthalate
 Concen: 46.978 ng
 RT: 20.162 min Scan# 2937
 Delta R.T. -0.012 min
 Lab File: BM047283.D
 Acq: 20 Aug 2024 23:34

Tgt Ion:149 Resp: 1247794
 Ion Ratio Lower Upper
 149 100
 91 67.0 57.0 85.4
 206 20.9 16.4 24.6





#81

Benzo(a)anthracene

Concen: 50.375 ng

RT: 21.003 min Scan# 3082

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

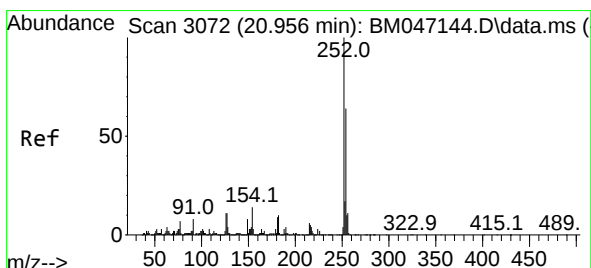
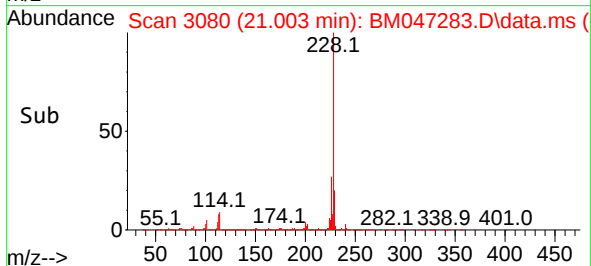
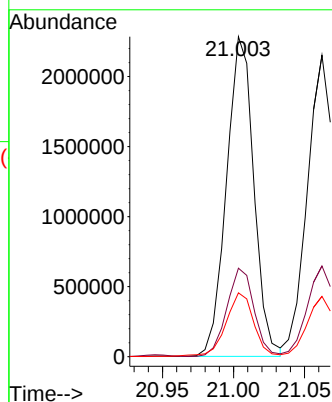
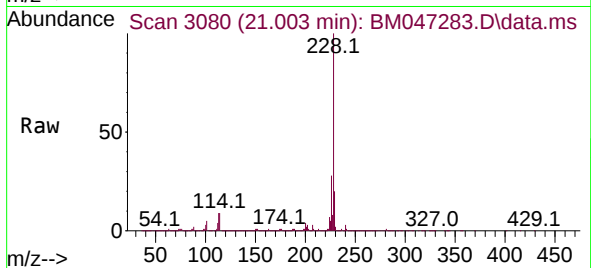
Tgt Ion:228 Resp: 3048278

Ion Ratio Lower Upper

228 100

226 27.7 21.8 32.6

229 20.0 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 51.981 ng

RT: 20.945 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

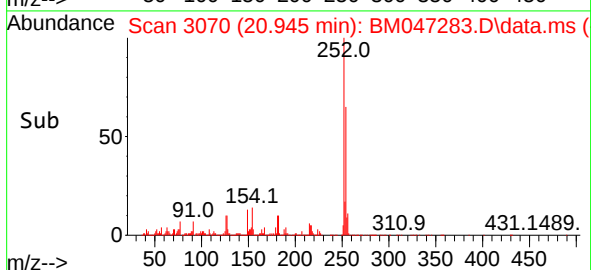
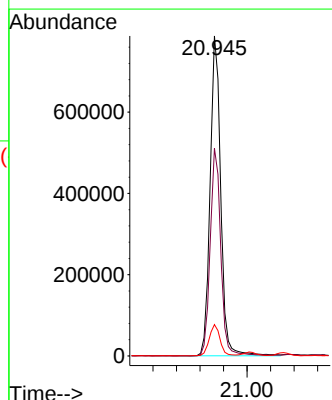
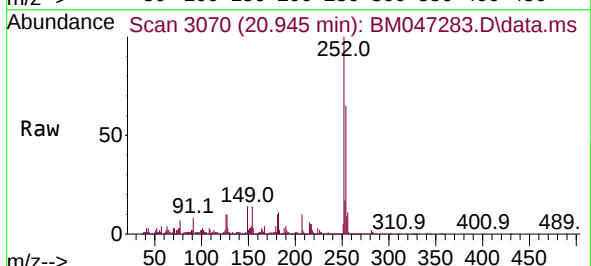
Tgt Ion:252 Resp: 984154

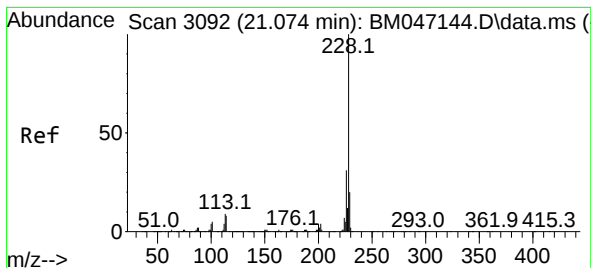
Ion Ratio Lower Upper

252 100

254 64.9 51.0 76.6

126 9.8 8.5 12.7





#83

Chrysene

Concen: 49.766 ng

RT: 21.062 min Scan# 3092

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

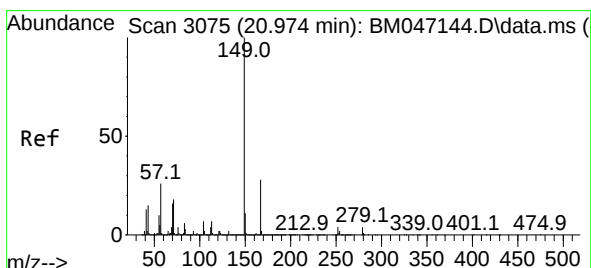
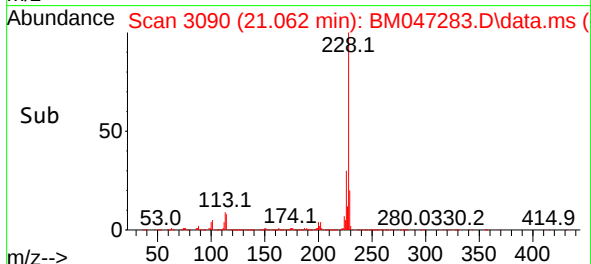
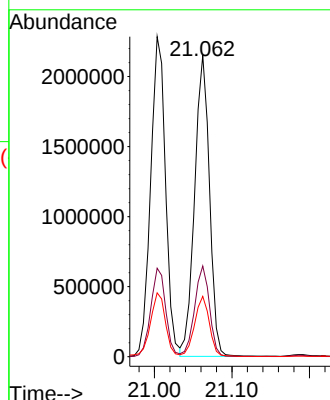
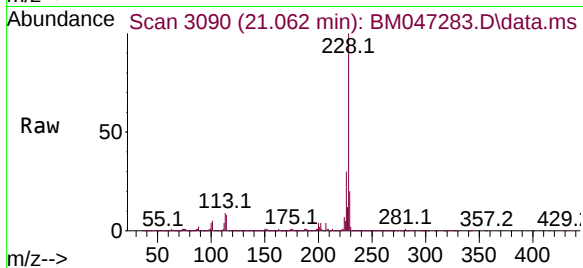
Tgt Ion:228 Resp: 2857193

Ion Ratio Lower Upper

228 100

226 30.1 24.4 36.6

229 20.0 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 46.309 ng

RT: 20.962 min Scan# 3073

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

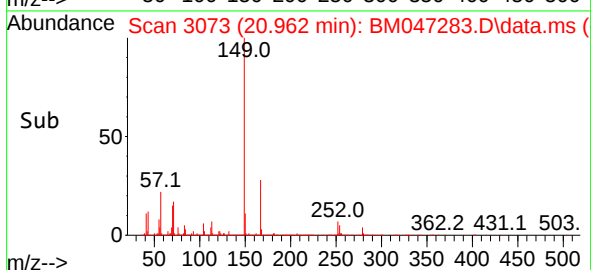
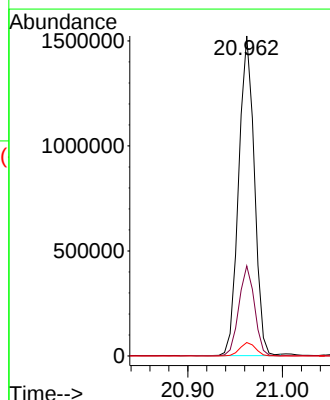
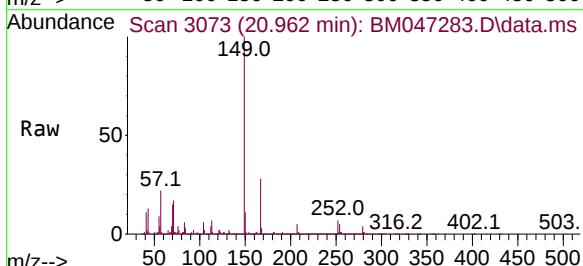
Tgt Ion:149 Resp: 1744396

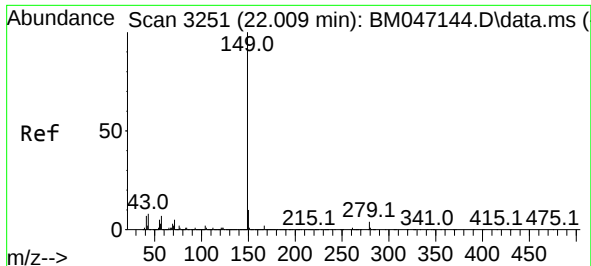
Ion Ratio Lower Upper

149 100

167 28.1 22.2 33.2

279 4.2 3.0 4.4

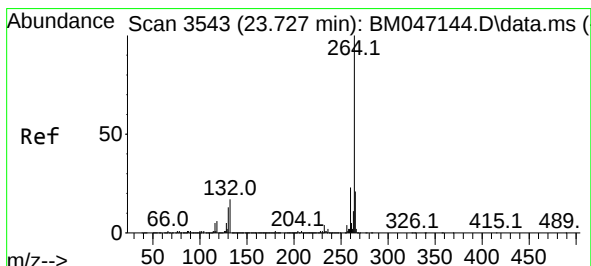
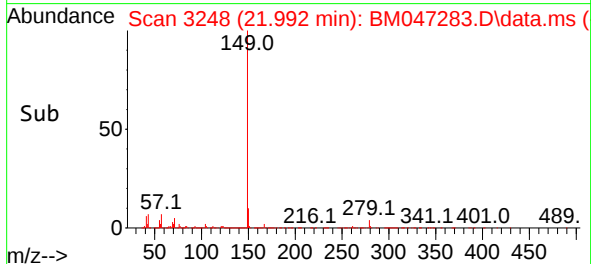
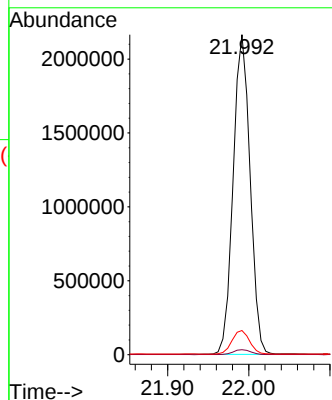
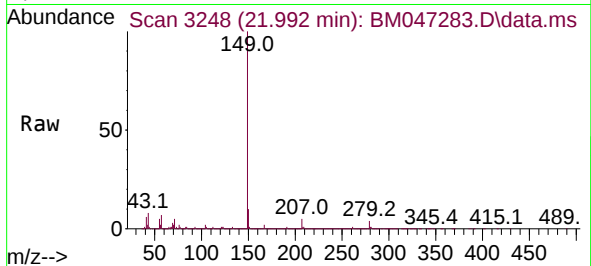




#85
Di-n-octyl phthalate
Concen: 48.829 ng
RT: 21.992 min Scan# 31
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

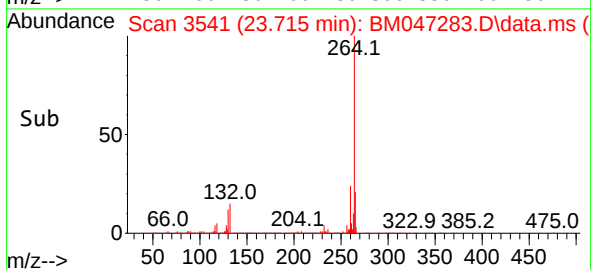
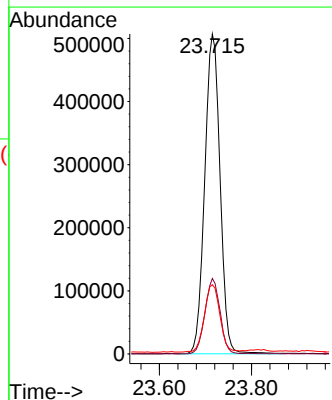
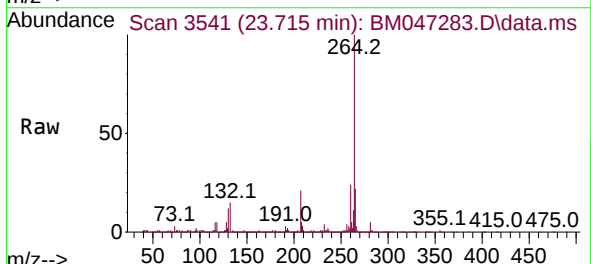
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

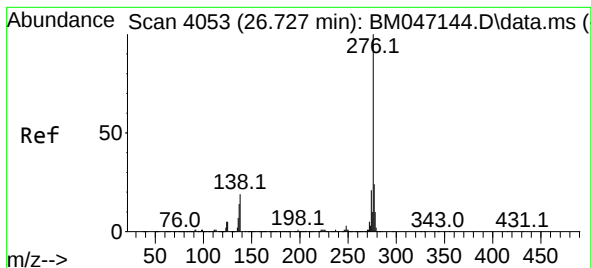
Tgt Ion:149 Resp: 3126306
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 7.6 6.9 10.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.715 min Scan# 3541
Delta R.T. -0.012 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:264 Resp: 1174904
Ion Ratio Lower Upper
264 100
260 23.6 18.5 27.7
265 21.6 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 52.370 ng

RT: 26.715 min Scan# 4051

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

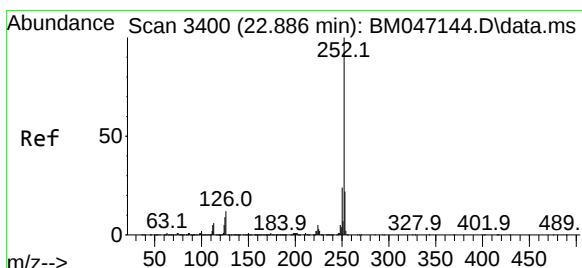
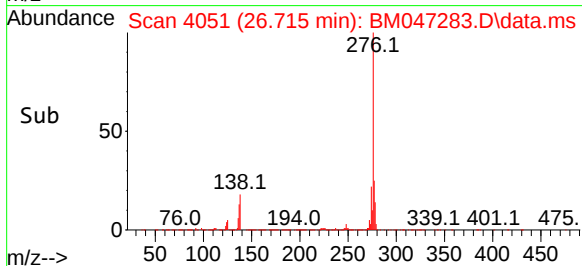
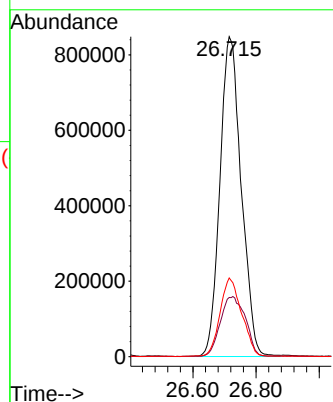
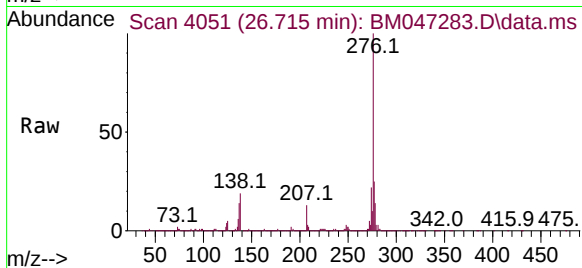
Tgt Ion:276 Resp: 3977139

Ion Ratio Lower Upper

276 100

138 22.0 19.4 29.0

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 47.409 ng

RT: 22.880 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

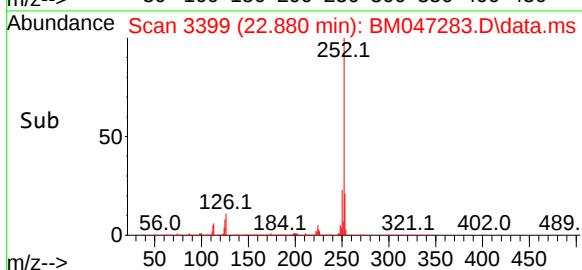
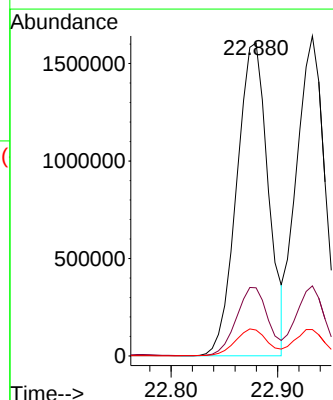
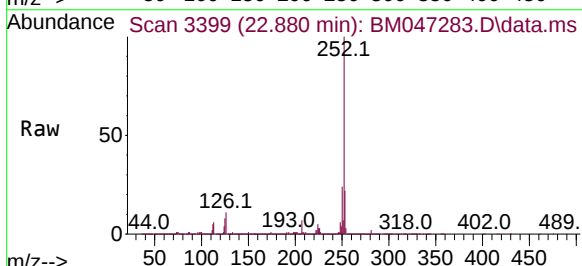
Tgt Ion:252 Resp: 3307853

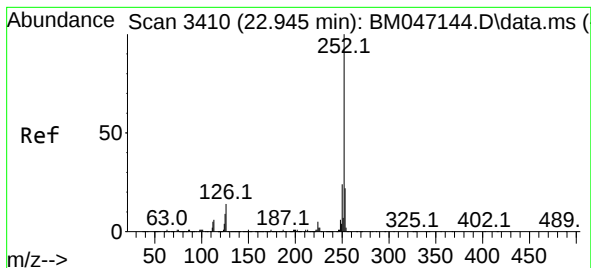
Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

125 8.3 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 46.163 ng

RT: 22.933 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

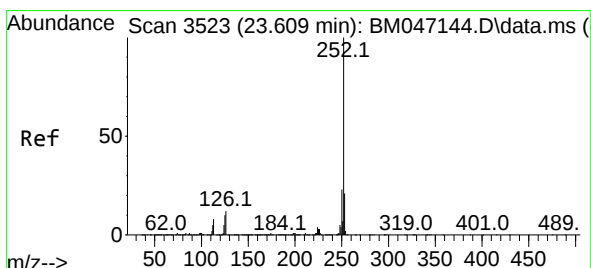
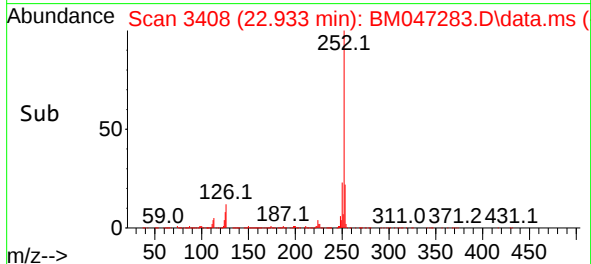
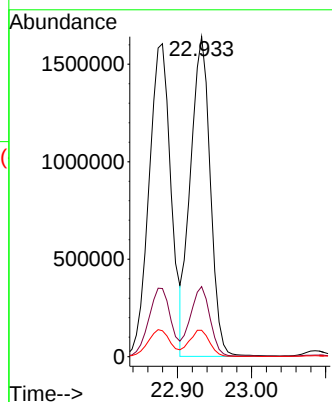
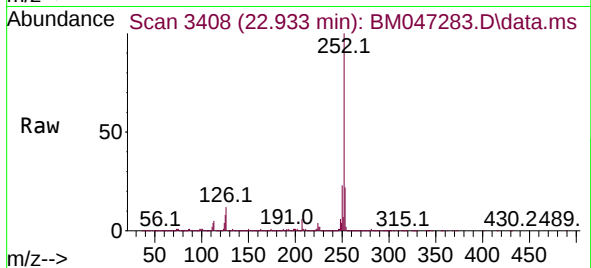
Tgt Ion:252 Resp: 3042305

Ion Ratio Lower Upper

252 100

253 21.9 17.7 26.5

125 8.2 7.4 11.2



#90

Benzo(a)pyrene

Concen: 52.188 ng

RT: 23.591 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047283.D

Acq: 20 Aug 2024 23:34

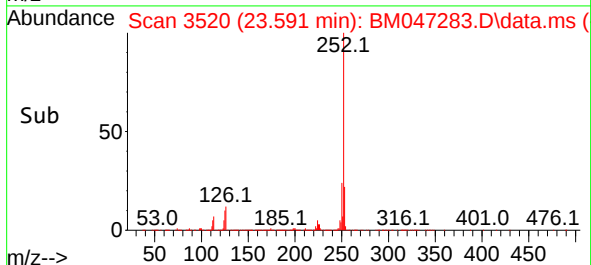
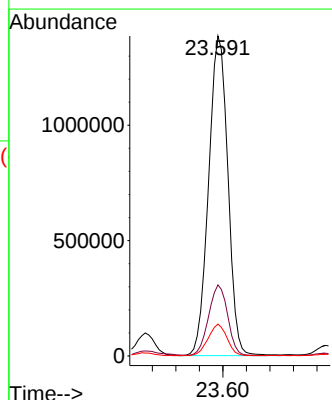
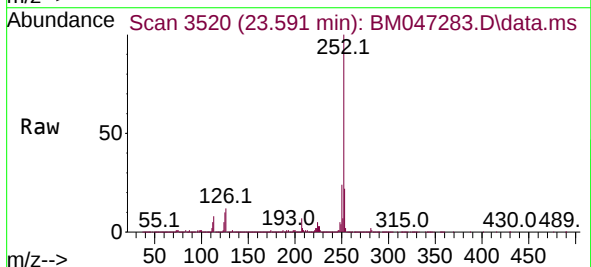
Tgt Ion:252 Resp: 3154353

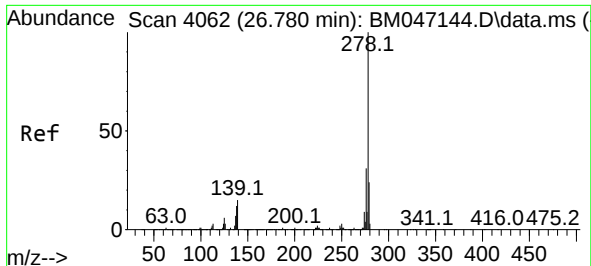
Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

125 9.9 8.2 12.2

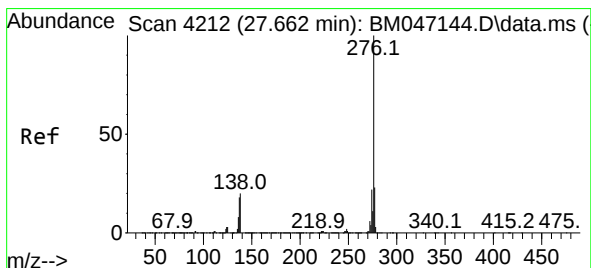
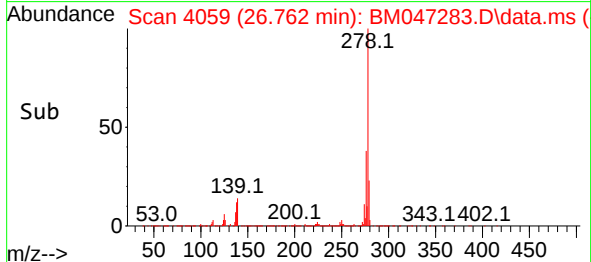
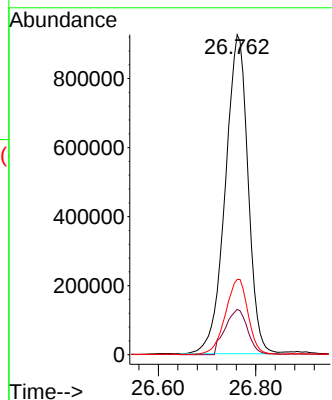
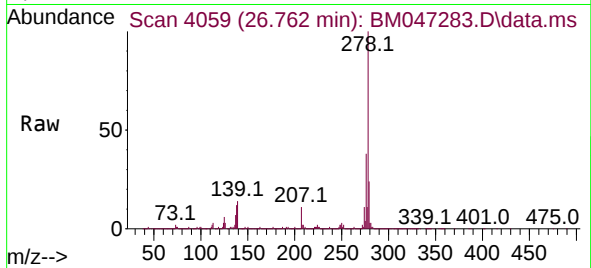




#91
Dibenzo(a,h)anthracene
Concen: 48.715 ng
RT: 26.762 min Scan# 4062
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:278 Resp: 2993975
Ion Ratio Lower Upper
278 100
139 14.2 12.0 18.0
279 23.5 19.2 28.8



#92
Benzo(g,h,i)perylene
Concen: 49.166 ng
RT: 27.644 min Scan# 4209
Delta R.T. -0.018 min
Lab File: BM047283.D
Acq: 20 Aug 2024 23:34

Tgt Ion:276 Resp: 3137261
Ion Ratio Lower Upper
276 100
277 24.1 18.8 28.2
138 19.0 16.2 24.4

