

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082024\
 Data File : BM047284.D
 Acq On : 21 Aug 2024 00:13
 Operator : RC/JU
 Sample : P3652-01MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

Quant Time: Aug 21 02:52:06 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	332130	20.000	ng	-0.02
21) Naphthalene-d8	10.116	136	1236196	20.000	ng	-0.02
39) Acenaphthene-d10	14.021	164	773731	20.000	ng	-0.01
64) Phenanthrene-d10	16.780	188	1509318	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	1028005	20.000	ng	-0.01
86) Perylene-d12	23.715	264	1173853	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.016	112	1921747	103.389	ng	0.00
7) Phenol-d6	6.581	99	2515309	98.208	ng	0.00
23) Nitrobenzene-d5	8.510	82	1690649	68.864	ng	-0.01
42) 2,4,6-Tribromophenol	15.533	330	983103	109.580	ng	0.00
45) 2-Fluorobiphenyl	12.627	172	3788838	75.535	ng	-0.02
79) Terphenyl-d14	19.451	244	4677394	97.495	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.028	88	286982	37.263	ng	94
3) Pyridine	3.399	79	754934	33.428	ng	96
4) n-Nitrosodimethylamine	3.322	42	359389	36.424	ng	99
6) Aniline	6.710	93	1002687	41.419	ng	98
8) 2-Chlorophenol	6.940	128	938956	46.316	ng	96
9) Benzaldehyde	6.522	77	470465	32.500	ng	98
10) Phenol	6.604	94	1086037	42.496	ng	98
11) bis(2-Chloroethyl)ether	6.810	93	891437	40.731	ng	98
12) 1,3-Dichlorobenzene	7.245	146	1037169	43.053	ng	98
13) 1,4-Dichlorobenzene	7.393	146	1045142	42.849	ng	99
14) 1,2-Dichlorobenzene	7.698	146	1008306	43.813	ng	98
15) Benzyl Alcohol	7.616	79	829824	45.524	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.881	45	1121477	39.933	ng	99
17) 2-Methylphenol	7.822	107	742919	43.574	ng	98
18) Hexachloroethane	8.410	117	398687	42.197	ng	95
19) n-Nitroso-di-n-propyla...	8.169	70	654872	37.959	ng	98
20) 3+4-Methylphenols	8.151	107	1002810	42.071	ng	99
22) Acetophenone	8.181	105	1275657	42.750	ng	98
24) Nitrobenzene	8.551	77	1013739	41.007	ng	96
25) Isophorone	9.075	82	1863455	43.593	ng	98
26) 2-Nitrophenol	9.245	139	535174	48.883	ng	95
27) 2,4-Dimethylphenol	9.334	122	727317	56.714	ng	100
28) bis(2-Chloroethoxy)met...	9.557	93	1168351	43.438	ng	99
29) 2,4-Dichlorophenol	9.786	162	947537	49.796	ng	98
30) 1,2,4-Trichlorobenzene	9.986	180	987739	45.869	ng	99
31) Naphthalene	10.163	128	2679235	43.506	ng	99
32) Benzoic acid	9.534	122	658003	44.163	ng	97
33) 4-Chloroaniline	10.292	127	733028	30.953	ng	99
34) Hexachlorobutadiene	10.445	225	631868	50.132	ng	100
35) Caprolactam	11.110	113	284080	42.989	ng	92
36) 4-Chloro-3-methylphenol	11.445	107	890448	43.940	ng	99
37) 2-Methylnaphthalene	11.792	142	1937997	44.199	ng	98
38) 1-Methylnaphthalene	12.016	142	1809233	41.751	ng	98
40) 1,2,4,5-Tetrachloroben...	12.175	216	1078464	51.103	ng	99
41) Hexachlorocyclopentadiene	12.145	237	1126361	152.847	ng	99
43) 2,4,6-Trichlorophenol	12.433	196	766884	51.126	ng	99

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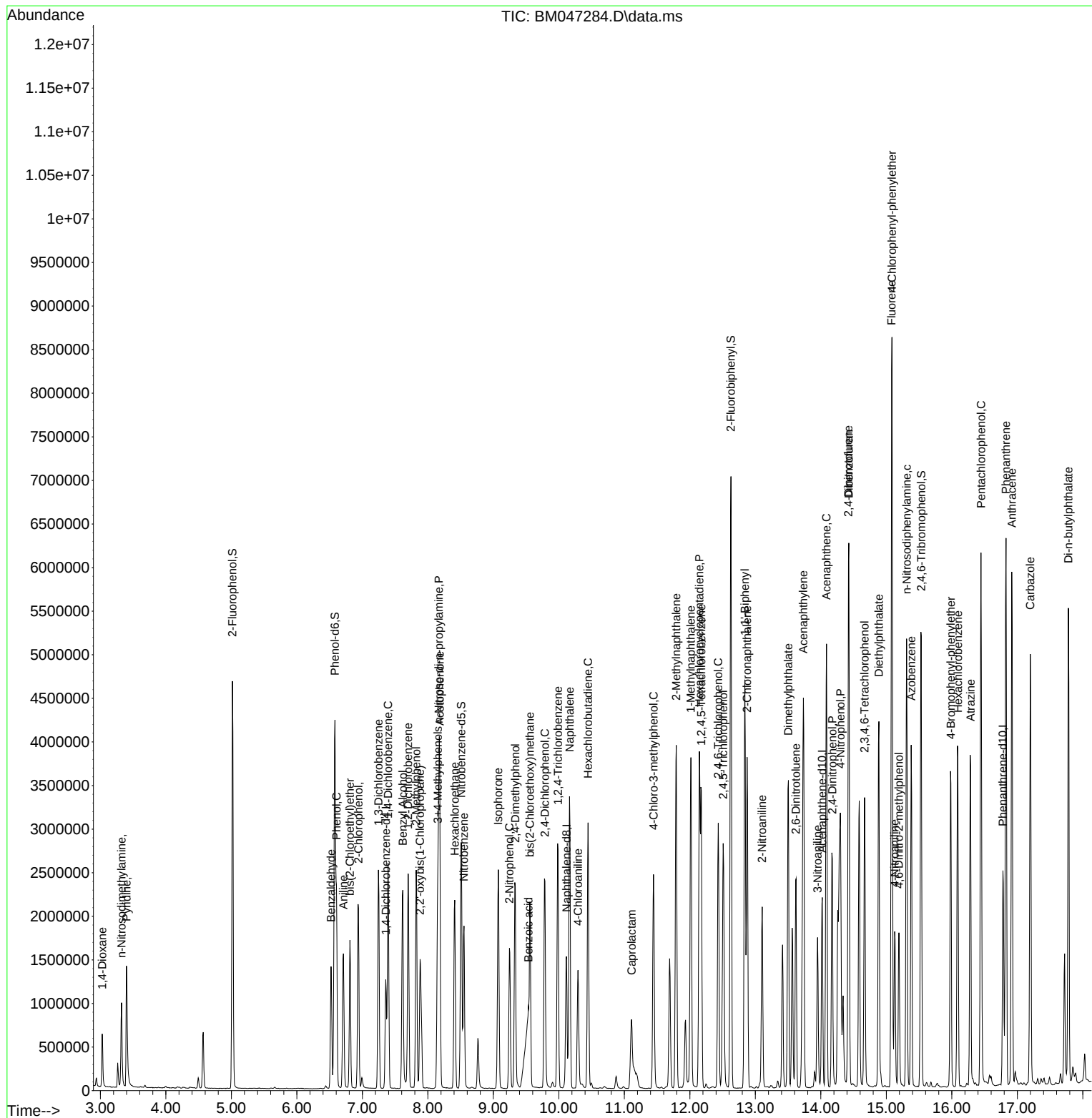
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.510	196	815192	48.947	ng	97
46) 1,1'-Biphenyl	12.839	154	2494029	45.278	ng	99
47) 2-Chloronaphthalene	12.874	162	1912224	44.415	ng	99
48) 2-Nitroaniline	13.104	65	577282	42.800	ng	95
49) Acenaphthylene	13.733	152	3073138	48.425	ng	99
50) Dimethylphthalate	13.504	163	2455080	45.432	ng	100
51) 2,6-Dinitrotoluene	13.621	165	548731	43.439	ng	87
52) Acenaphthene	14.086	154	1843525	45.795	ng	99
53) 3-Nitroaniline	13.951	138	446583	35.281	ng	96
54) 2,4-Dinitrophenol	14.174	184	660571	87.250	ng	89
55) Dibenzofuran	14.427	168	2851410	44.843	ng	98
56) 4-Nitrophenol	14.298	139	851997	78.058	ng	97
57) 2,4-Dinitrotoluene	14.421	165	713070	42.292	ng	96
58) Fluorene	15.080	166	2289864	43.645	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.669	232	674965	49.312	ng	94
60) Diethylphthalate	14.886	149	2383029	43.184	ng	98
61) 4-Chlorophenyl-phenyle...	15.086	204	1150401	46.057	ng	95
62) 4-Nitroaniline	15.127	138	480241	38.511	ng	97
63) Azobenzene	15.380	77	2144821	40.993	ng	96
65) 4,6-Dinitro-2-methylph...	15.192	198	414243	46.877	ng	93
66) n-Nitrosodiphenylamine	15.310	169	1990759	48.425	ng	98
67) 4-Bromophenyl-phenylether	15.986	248	740340	50.903	ng	95
68) Hexachlorobenzene	16.092	284	838860	48.159	ng	94
69) Atrazine	16.286	200	739412	59.771	ng	99
70) Pentachlorophenol	16.445	266	1100011	90.089	ng	98
71) Phenanthrene	16.827	178	3802588	50.201	ng	100
72) Anthracene	16.915	178	3621170	49.132	ng	100
73) Carbazole	17.198	167	3226492	42.875	ng	100
74) Di-n-butylphthalate	17.780	149	4073280	46.519	ng	100
75) Fluoranthene	18.862	202	4503826	48.884	ng	98
77) Benzidine	19.068	184	1799985	103.249	ng	99
78) Pyrene	19.227	202	4591259	62.549	ng	100
80) Butylbenzylphthalate	20.162	149	1632217	54.488	ng	97
81) Benzo(a)anthracene	21.003	228	3522871	51.621	ng	99
82) 3,3'-Dichlorobenzidine	20.945	252	1133647	53.092	ng	99
83) Chrysene	21.062	228	3296384	50.910	ng	100
84) Bis(2-ethylhexyl)phtha...	20.962	149	2235419	52.620	ng	98
85) Di-n-octyl phthalate	21.992	149	3717068	51.478	ng	98
87) Indeno(1,2,3-cd)pyrene	26.715	276	3951609	52.080	ng	98
88) Benzo(b)fluoranthene	22.874	252	3453258	49.537	ng	99
89) Benzo(k)fluoranthene	22.933	252	3172313	48.179	ng	99
90) Benzo(a)pyrene	23.591	252	3233179	53.540	ng	99
91) Dibenzo(a,h)anthracene	26.762	278	3009194	49.007	ng	99
92) Benzo(g,h,i)perylene	27.650	276	3154582	49.482	ng	98

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

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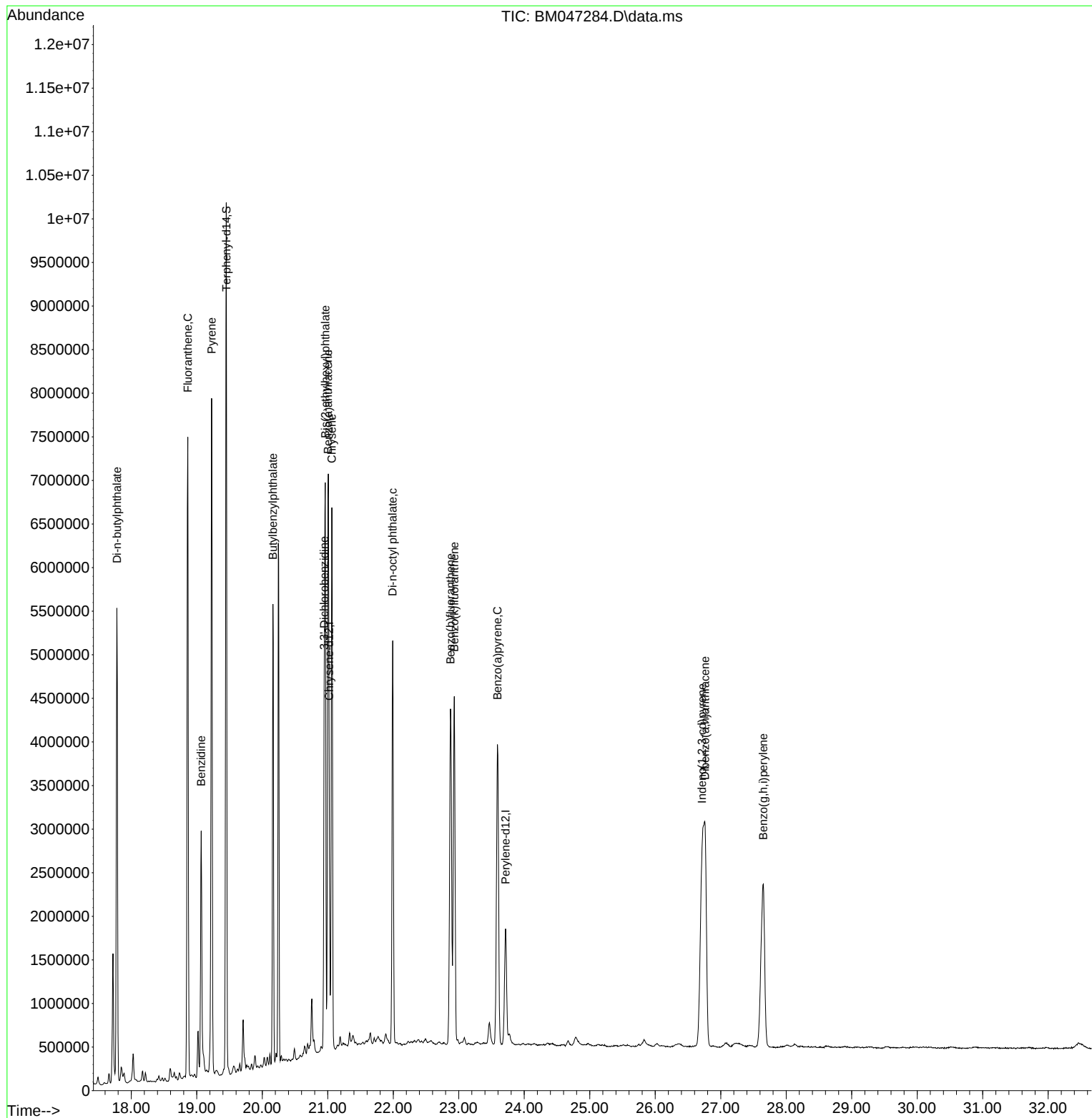
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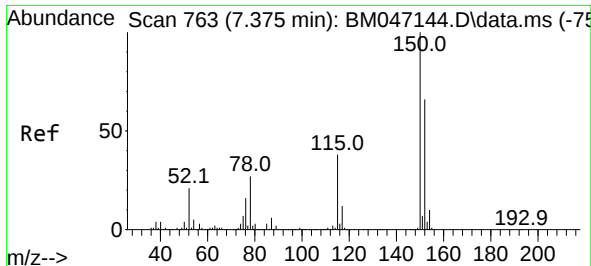


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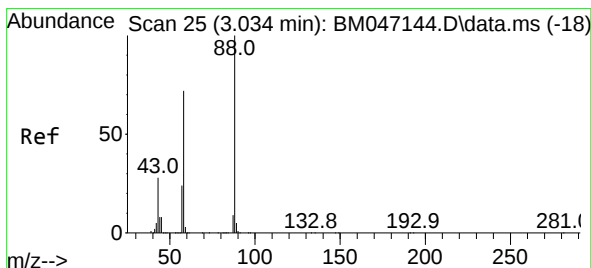
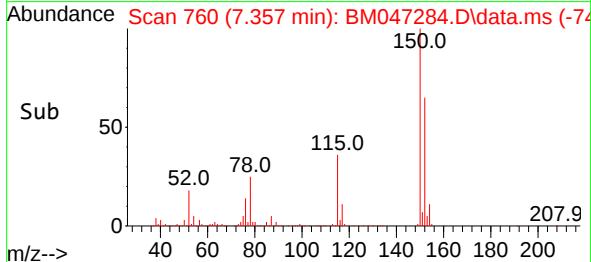
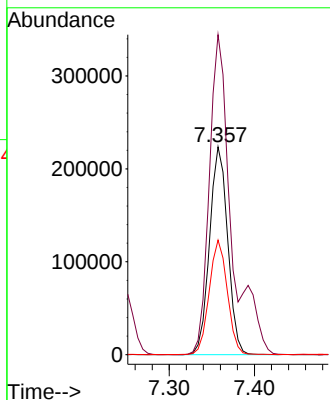
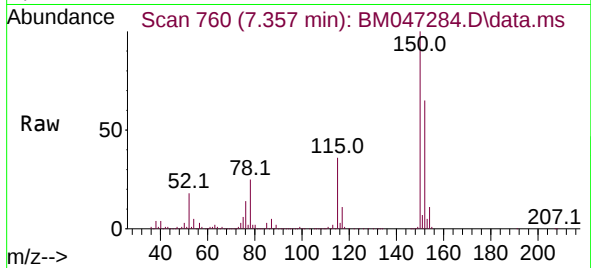




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.357 min Scan# 7
Delta R.T. -0.018 min
Lab File: BM047284.D
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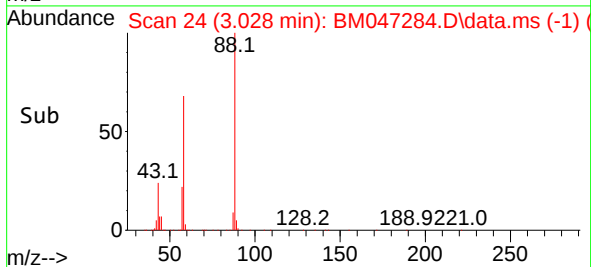
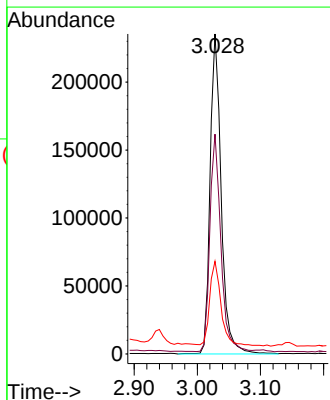
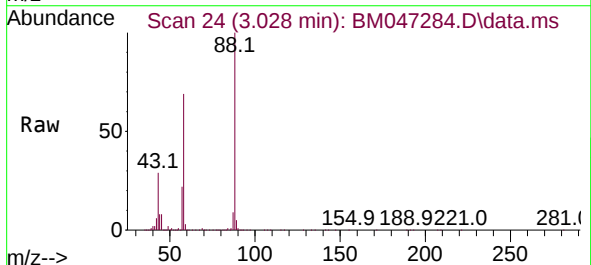
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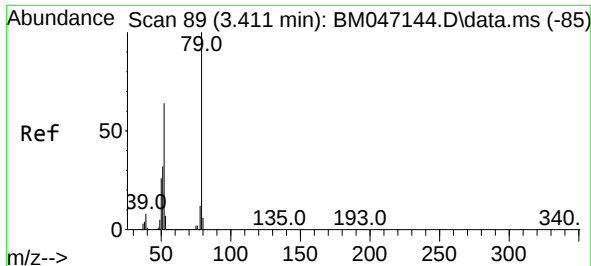
Tgt Ion:152 Resp: 332130
Ion Ratio Lower Upper
152 100
150 153.9 120.5 180.7
115 55.1 45.5 68.3



#2
1,4-Dioxane
Concen: 37.263 ng
RT: 3.028 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 88 Resp: 286982
Ion Ratio Lower Upper
88 100
58 67.0 58.2 87.4
43 26.8 22.5 33.7

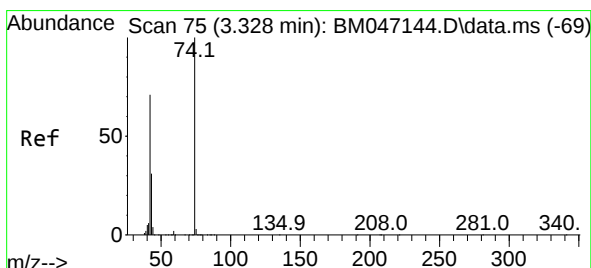
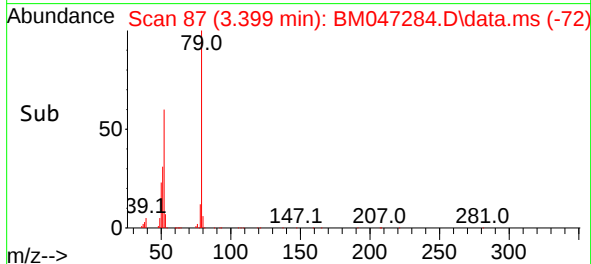
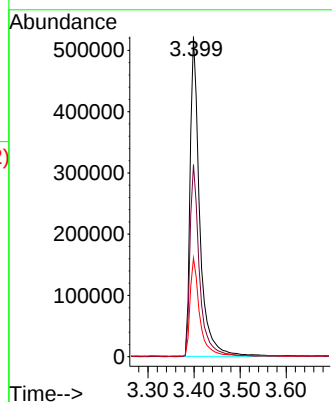
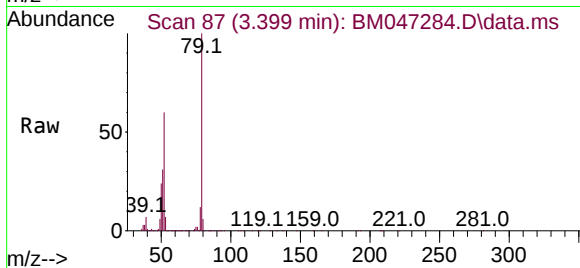




#3
 Pyridine
 Concen: 33.428 ng
 RT: 3.399 min Scan# 81
 Delta R.T. -0.012 min
 Lab File: BM047284.D
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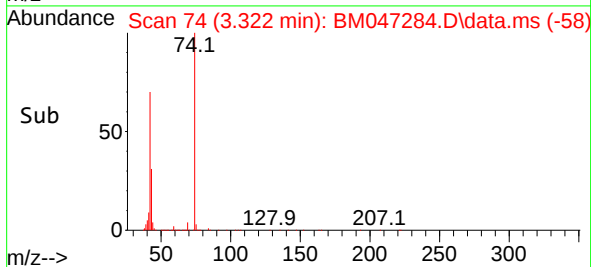
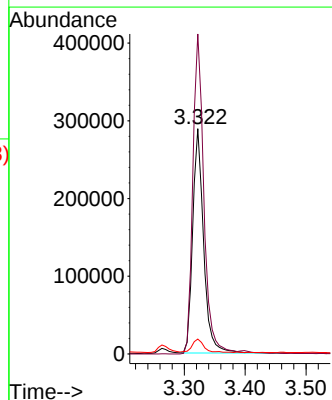
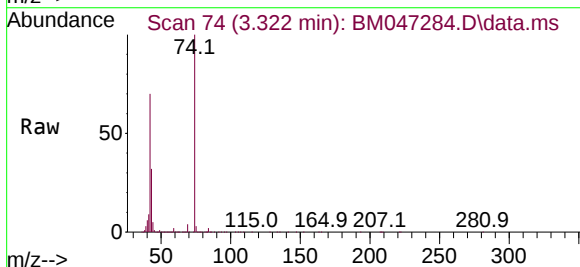
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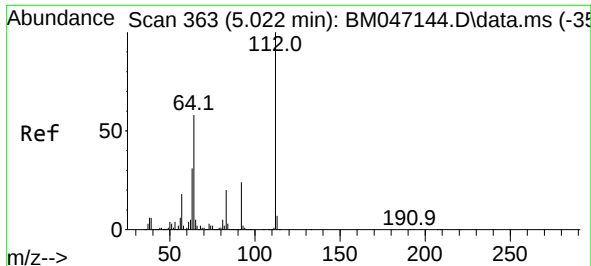
Tgt Ion: 79 Resp: 754934
 Ion Ratio Lower Upper
 79 100
 52 60.0 51.2 76.8
 51 30.8 26.1 39.1



#4
 n-Nitrosodimethylamine
 Concen: 36.424 ng
 RT: 3.322 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

Tgt Ion: 42 Resp: 359389
 Ion Ratio Lower Upper
 42 100
 74 142.0 112.9 169.3
 44 6.6 5.3 7.9

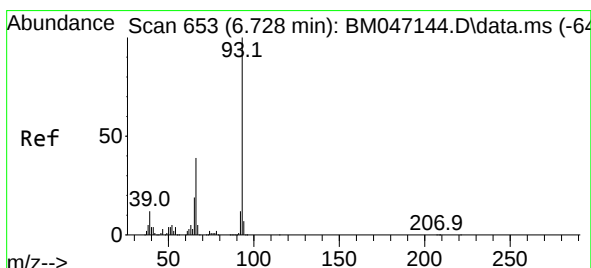
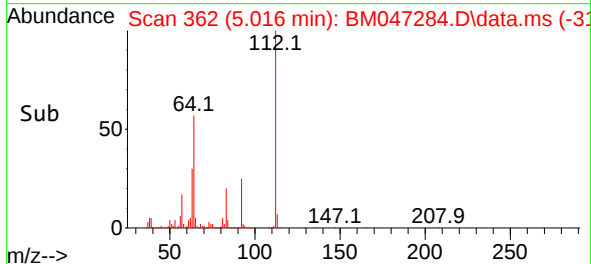
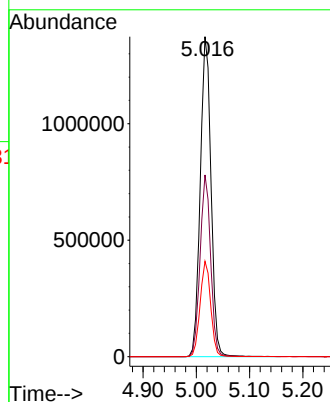
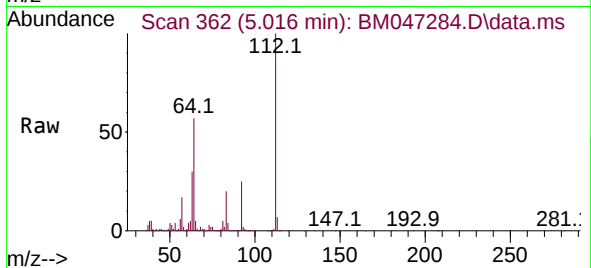




#5
2-Fluorophenol
Concen: 103.389 ng
RT: 5.016 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM047284.D
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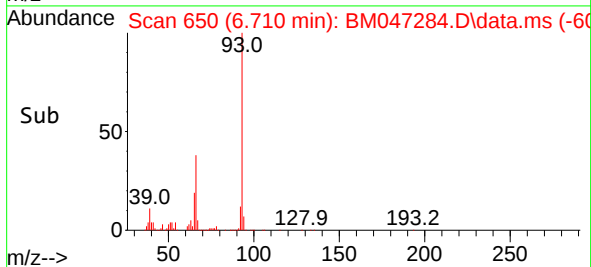
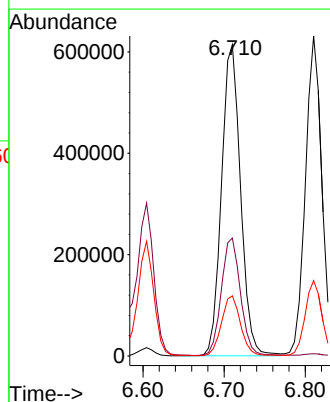
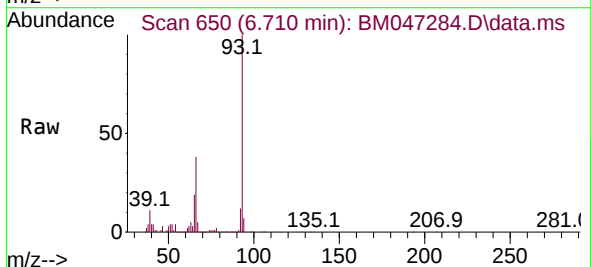
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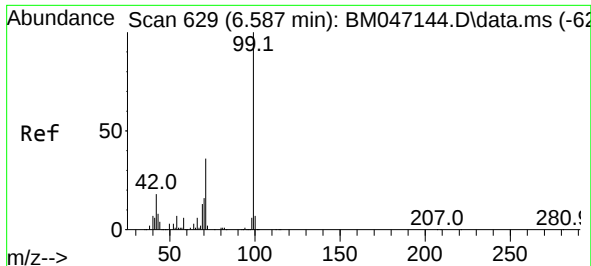
Tgt Ion:112 Resp: 1921747
Ion Ratio Lower Upper
112 100
64 56.8 46.7 70.1
63 29.8 24.8 37.2



#6
Aniline
Concen: 41.419 ng
RT: 6.710 min Scan# 650
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 93 Resp: 1002687
Ion Ratio Lower Upper
93 100
66 37.9 31.4 47.2
65 19.4 15.6 23.4

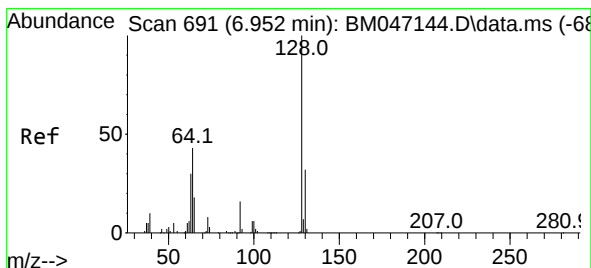
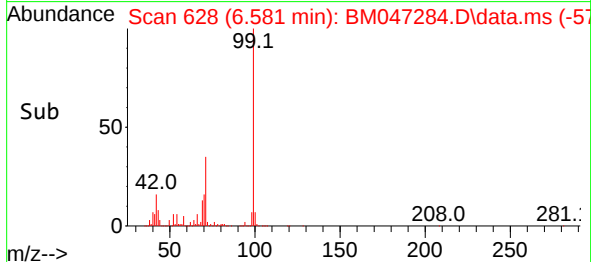
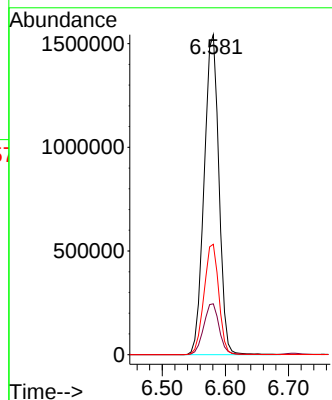
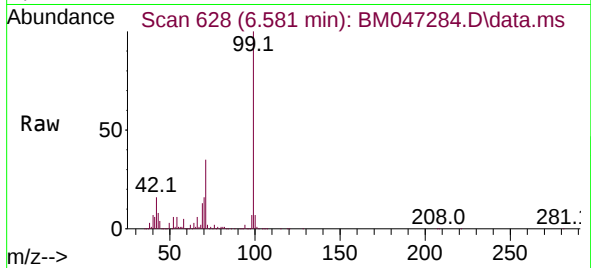




#7
Phenol-d6
Concen: 98.208 ng
RT: 6.581 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM047284.D
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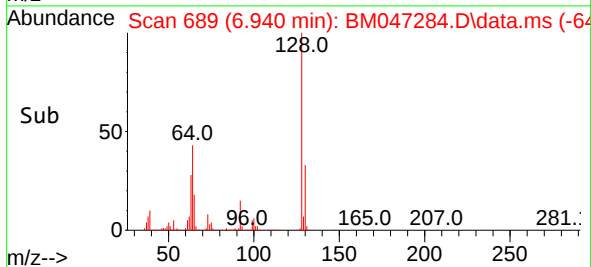
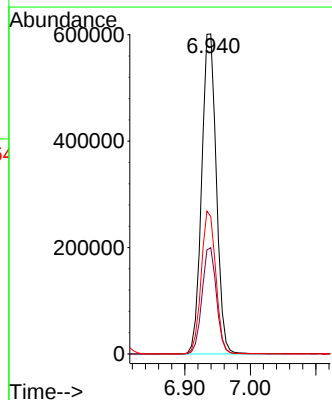
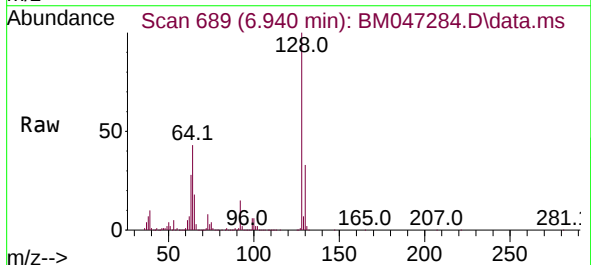
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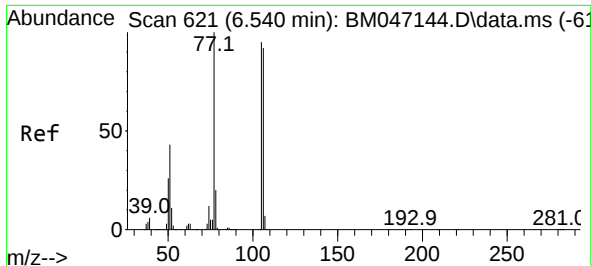
Tgt Ion: 99 Resp: 2515309
Ion Ratio Lower Upper
99 100
42 15.9 14.1 21.1
71 34.5 28.5 42.7



#8
2-Chlorophenol
Concen: 46.316 ng
RT: 6.940 min Scan# 689
Delta R.T. -0.012 min
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Tgt Ion: 128 Resp: 938956
Ion Ratio Lower Upper
128 100
130 33.2 12.1 52.1
64 42.9 26.6 66.6

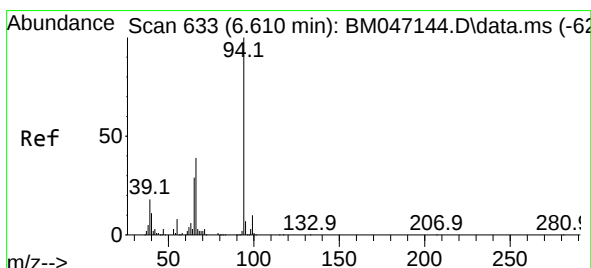
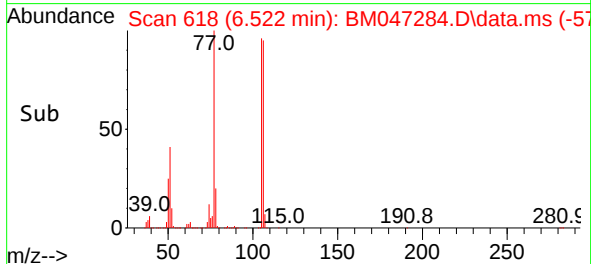
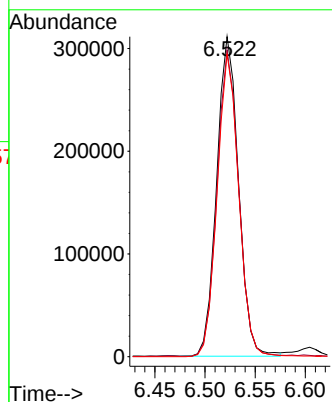
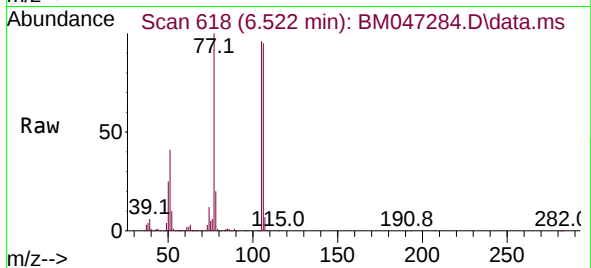




#9
Benzaldehyde
Concen: 32.500 ng
RT: 6.522 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

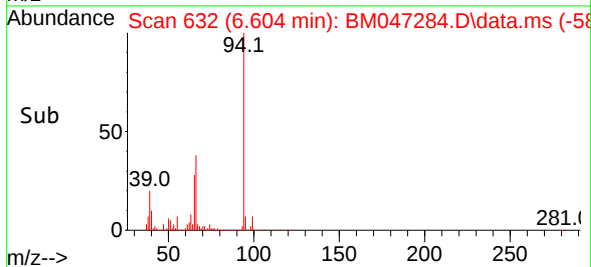
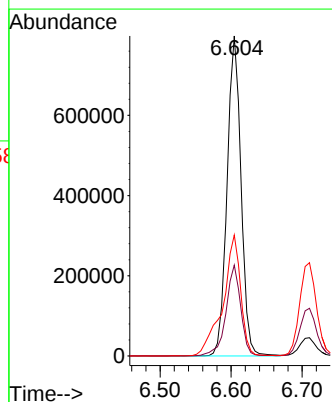
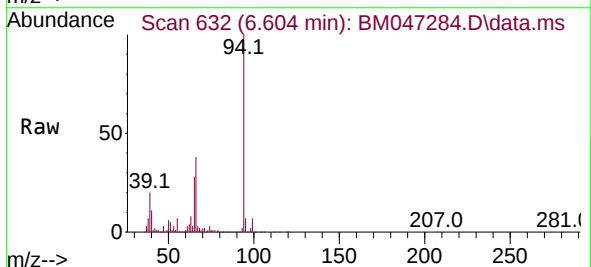
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

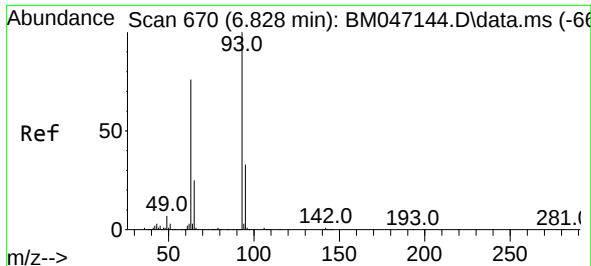
Tgt Ion: 77 Resp: 470465
Ion Ratio Lower Upper
77 100
105 95.8 74.5 114.5
106 94.6 72.3 112.3



#10
Phenol
Concen: 42.496 ng
RT: 6.604 min Scan# 632
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 94 Resp: 1086037
Ion Ratio Lower Upper
94 100
65 28.4 9.0 49.0
66 37.8 18.9 58.9

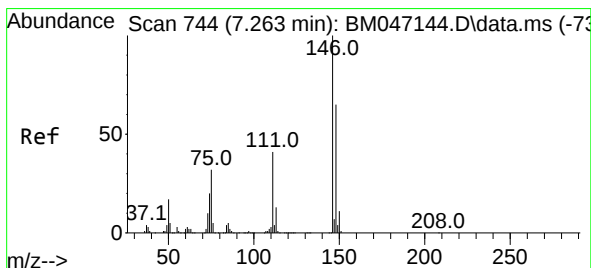
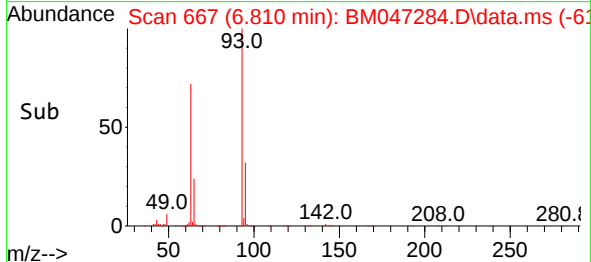
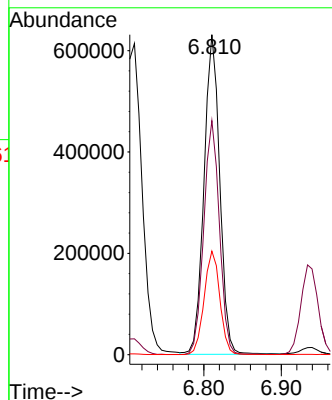
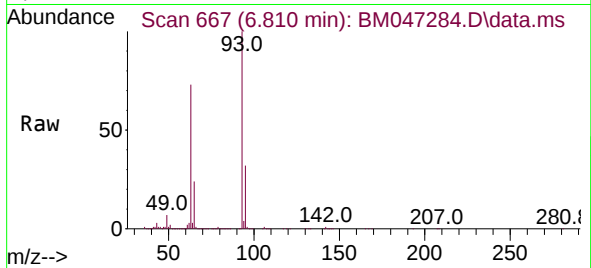




#11
bis(2-Chloroethyl)ether
Concen: 40.731 ng
RT: 6.810 min Scan# 60
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

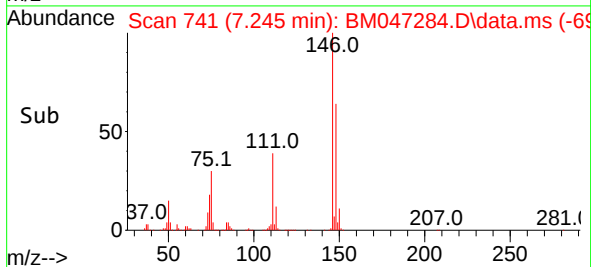
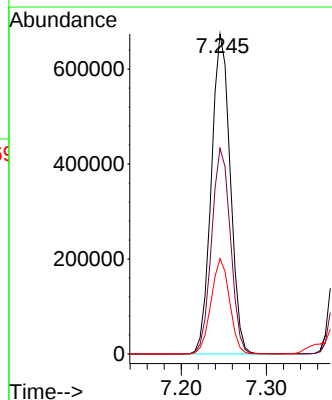
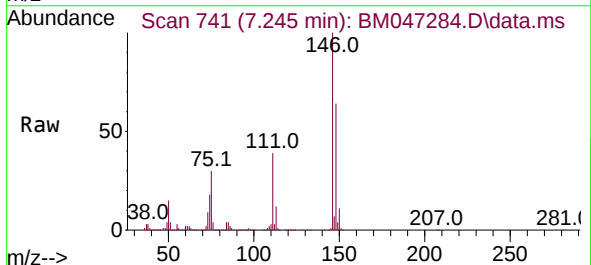
Instrument :
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ClientSampleId :
LIVONIA-SOILMSD

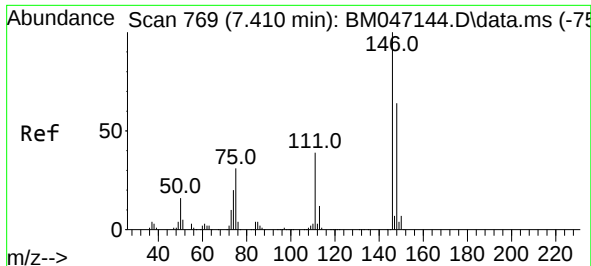
Tgt Ion: 93 Resp: 891437
Ion Ratio Lower Upper
93 100
63 73.1 55.8 95.8
95 32.4 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 43.053 ng
RT: 7.245 min Scan# 741
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:146 Resp: 1037169
Ion Ratio Lower Upper
146 100
148 64.2 52.3 78.5
75 29.8 25.8 38.6

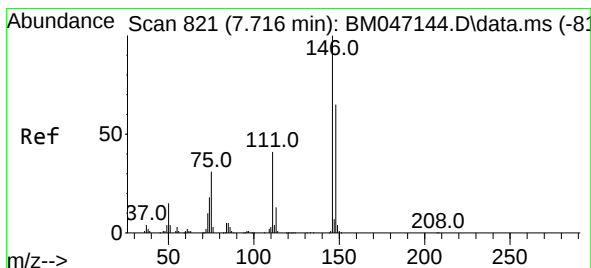
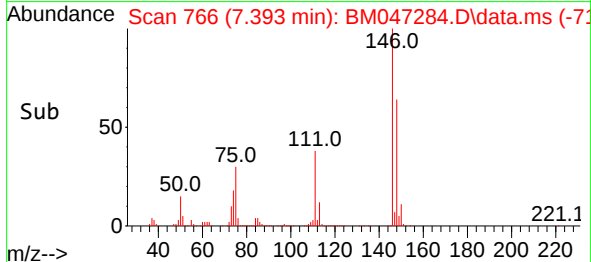
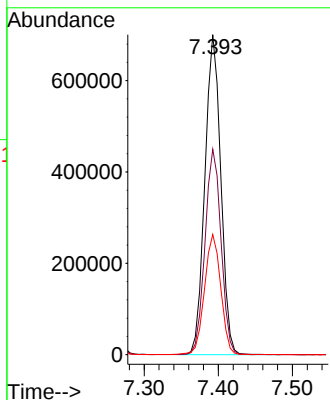
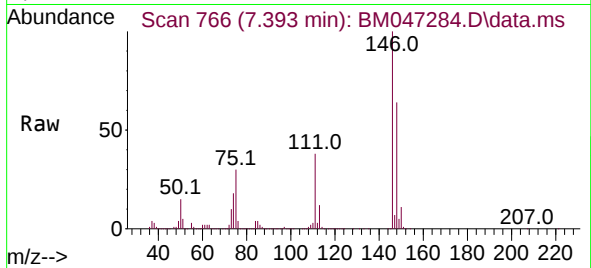




#13
1,4-Dichlorobenzene
Concen: 42.849 ng
RT: 7.393 min Scan# 701
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

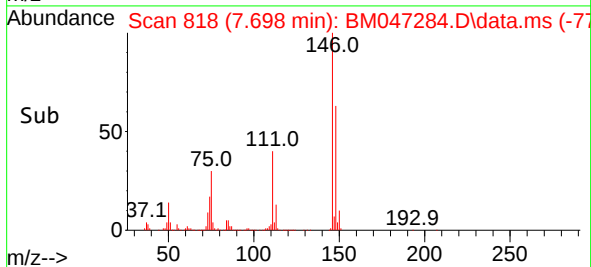
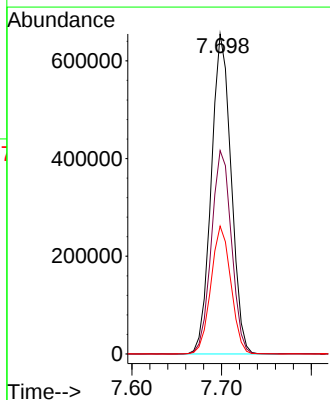
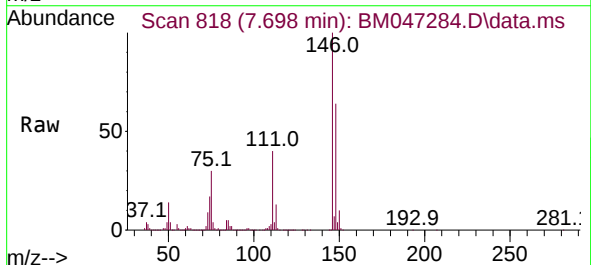
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

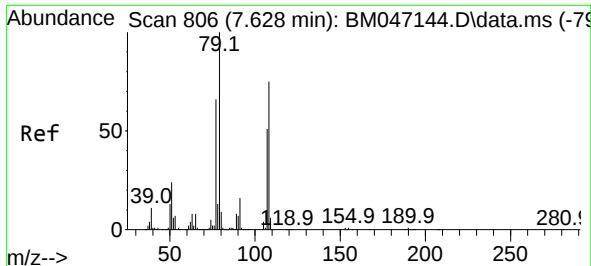
Tgt Ion:146 Resp: 1045142
Ion Ratio Lower Upper
146 100
148 64.2 51.4 77.2
111 37.6 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 43.813 ng
RT: 7.698 min Scan# 818
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:146 Resp: 1008306
Ion Ratio Lower Upper
146 100
148 63.5 51.8 77.8
111 40.0 33.3 49.9

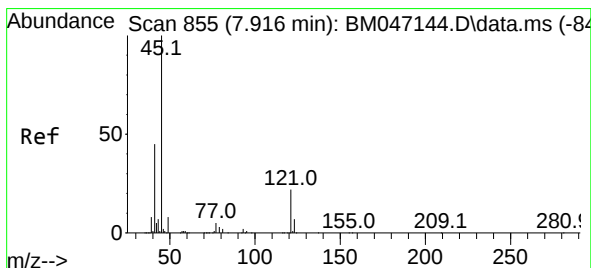
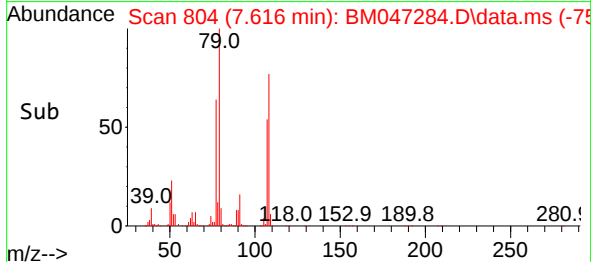
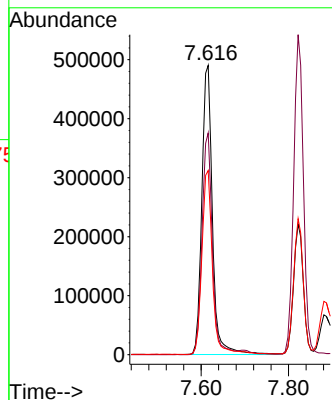
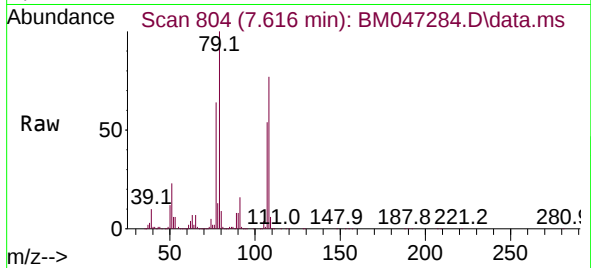




#15
Benzyl Alcohol
Concen: 45.524 ng
RT: 7.616 min Scan# 804
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

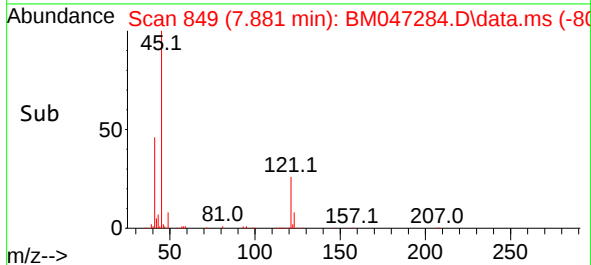
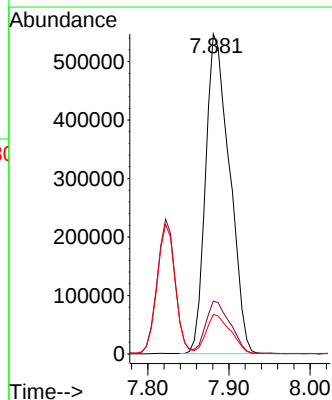
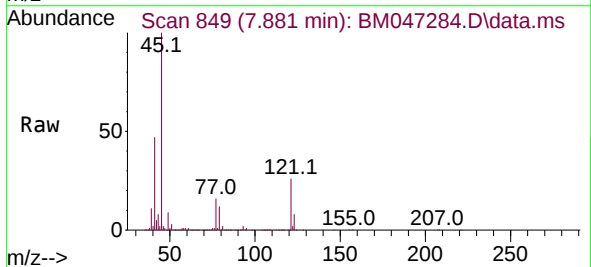
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

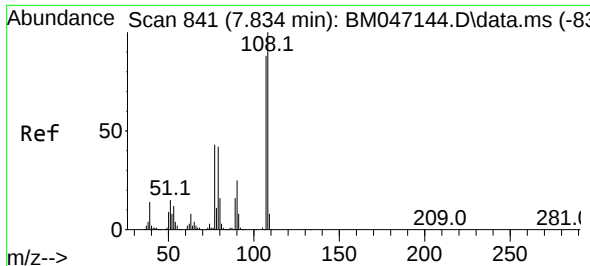
Tgt Ion: 79 Resp: 829824
Ion Ratio Lower Upper
79 100
108 76.7 59.7 89.5
77 63.7 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.933 ng
RT: 7.881 min Scan# 849
Delta R.T. -0.035 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 45 Resp: 1121477
Ion Ratio Lower Upper
45 100
77 16.5 0.0 35.6
79 12.3 0.0 32.4

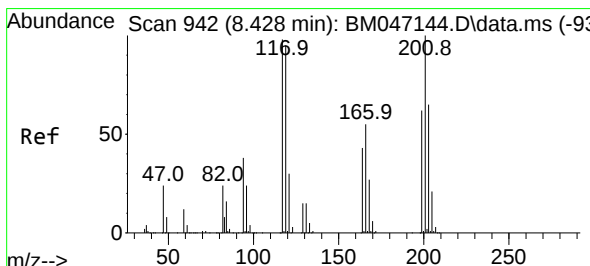
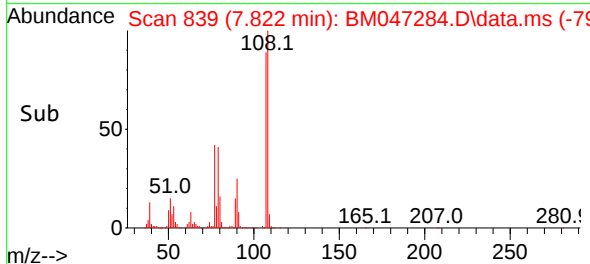
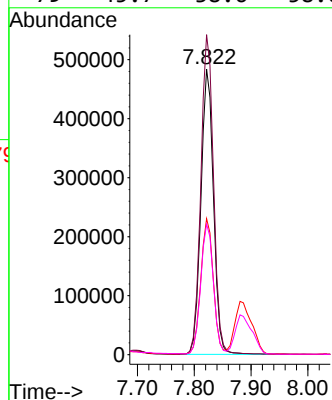
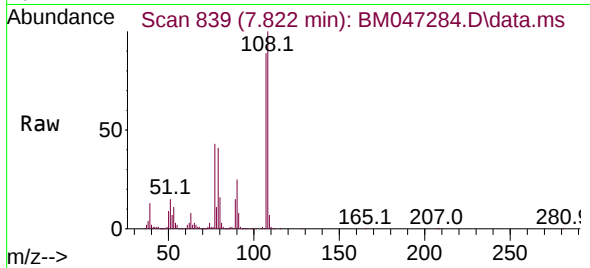




#17
2-Methylphenol
Concen: 43.574 ng
RT: 7.822 min Scan# 841
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

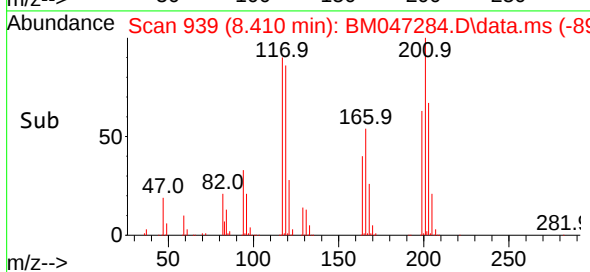
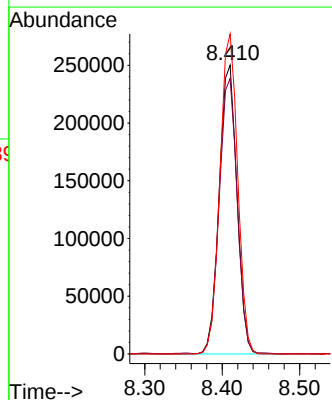
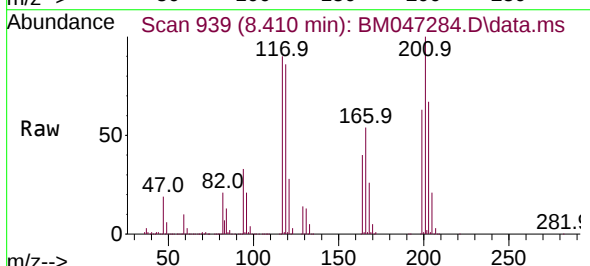
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

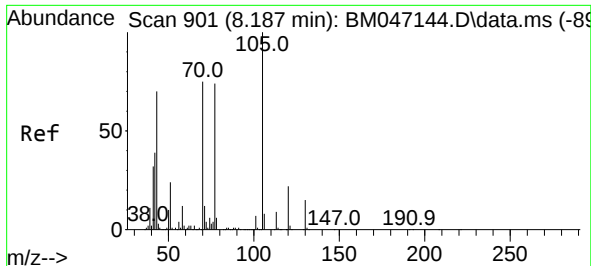
Tgt Ion:107 Resp: 742919
Ion Ratio Lower Upper
107 100
108 112.1 90.6 135.8
77 47.6 39.3 58.9
79 45.7 38.6 58.0



#18
Hexachloroethane
Concen: 42.197 ng
RT: 8.410 min Scan# 939
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:117 Resp: 398687
Ion Ratio Lower Upper
117 100
119 95.4 77.0 115.4
201 110.8 81.3 121.9



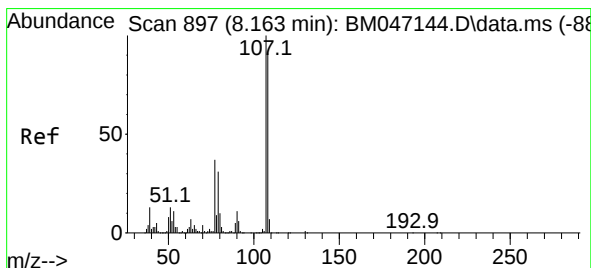
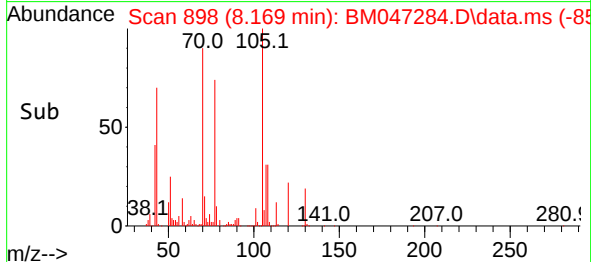
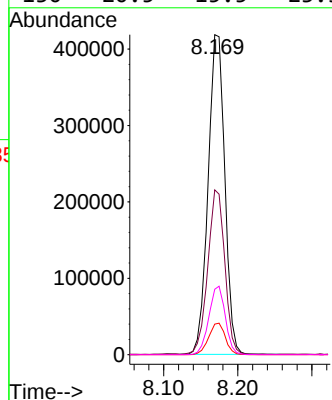
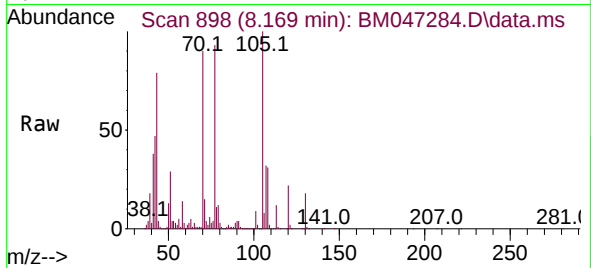


#19
n-Nitroso-di-n-propylamine
Concen: 37.959 ng
RT: 8.169 min Scan# 898
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion: 70 Resp: 654872

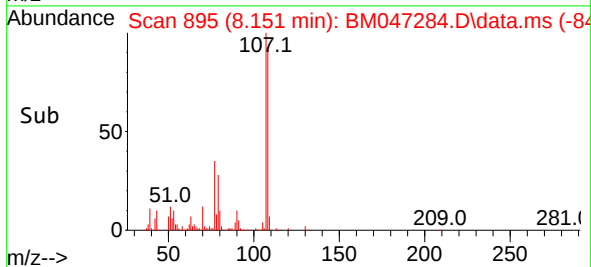
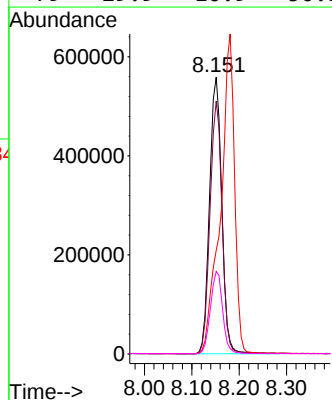
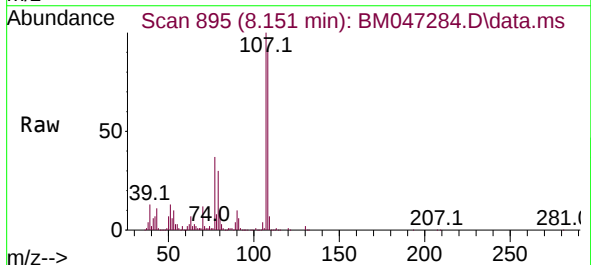
Ion	Ratio	Lower	Upper
70	100		
42	51.5	42.0	63.0
101	9.6	7.2	10.8
130	20.5	15.5	23.3

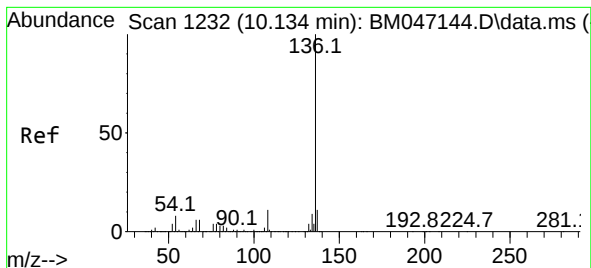


#20
3+4-Methylphenols
Concen: 42.071 ng
RT: 8.151 min Scan# 895
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 107 Resp: 1002810

Ion	Ratio	Lower	Upper
107	100		
108	91.3	70.7	110.7
77	37.4	17.4	57.4
79	29.9	10.9	50.9

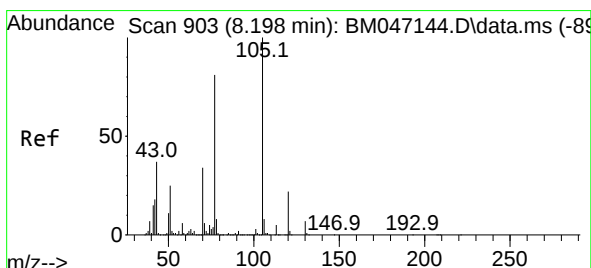
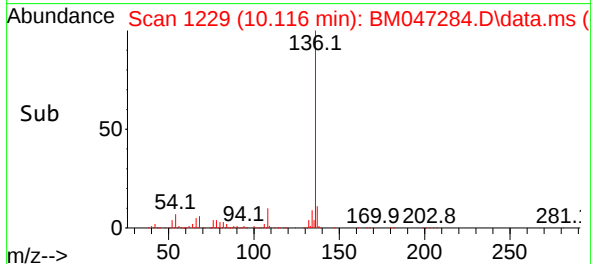
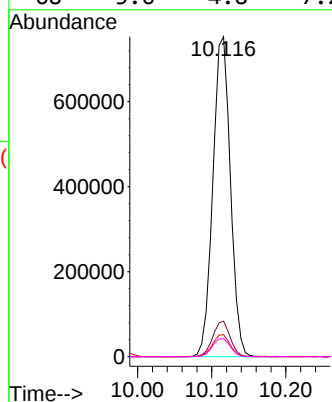
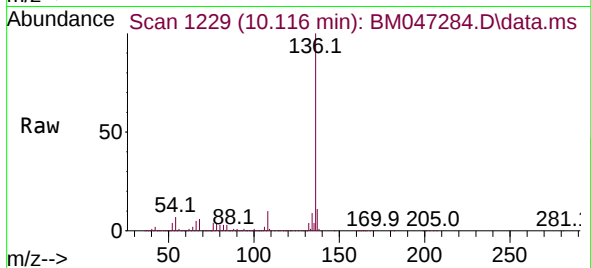




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.116 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

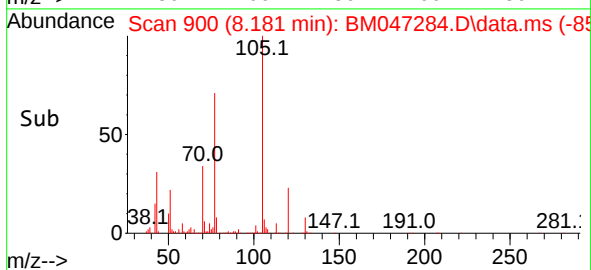
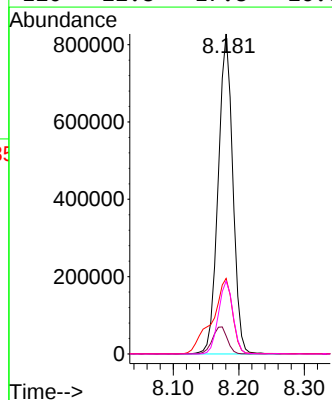
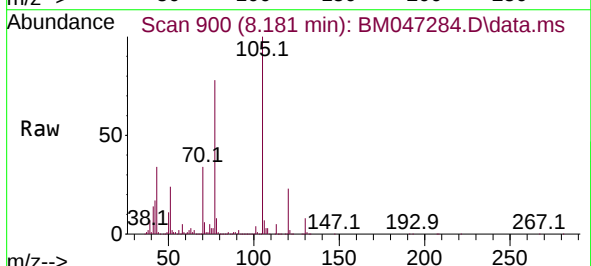
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

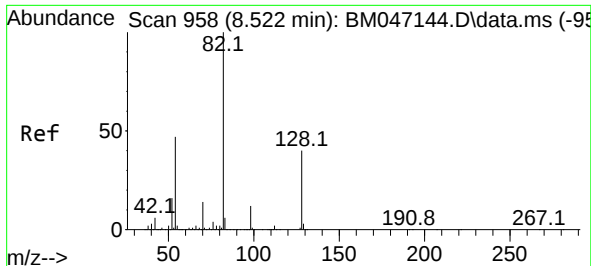
Tgt Ion:136 Resp: 1236196
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.9 6.0 9.0
68 5.6 4.8 7.2



#22
Acetophenone
Concen: 42.750 ng
RT: 8.181 min Scan# 900
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:105 Resp: 1275657
Ion Ratio Lower Upper
105 100
71 5.7 4.5 6.7
51 23.6 20.1 30.1
120 22.8 17.8 26.6

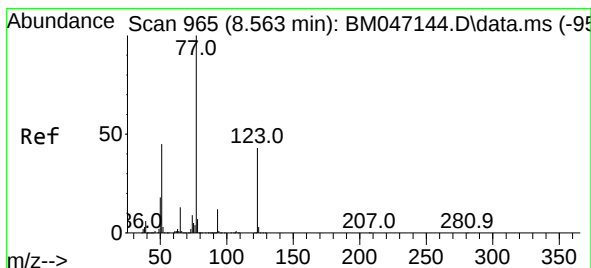
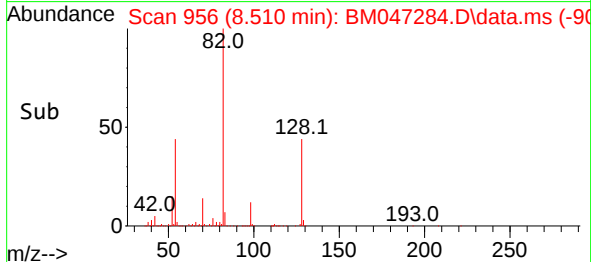
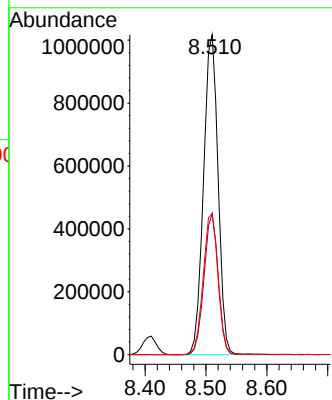
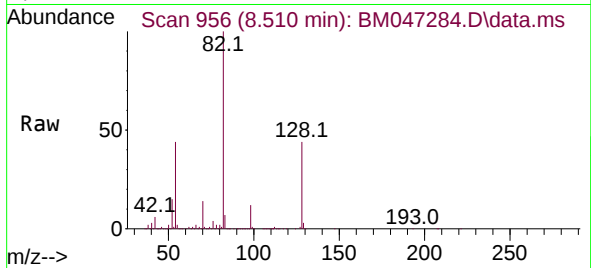




#23
Nitrobenzene-d5
Concen: 68.864 ng
RT: 8.510 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

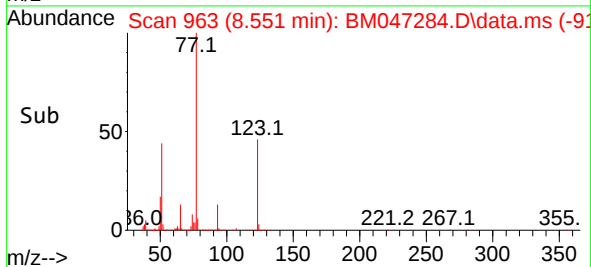
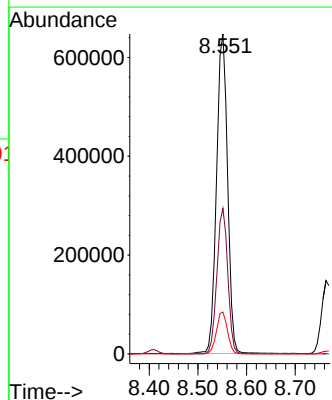
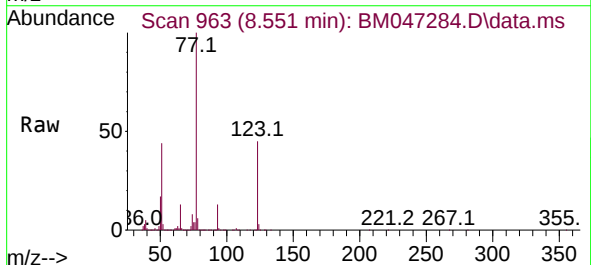
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

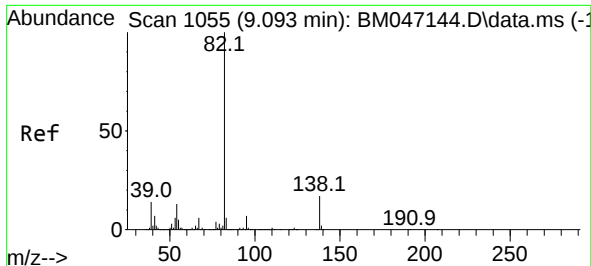
Tgt Ion: 82 Resp: 1690649
Ion Ratio Lower Upper
82 100
128 44.2 32.3 48.5
54 44.0 37.4 56.2



#24
Nitrobenzene
Concen: 41.007 ng
RT: 8.551 min Scan# 963
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 77 Resp: 1013739
Ion Ratio Lower Upper
77 100
123 45.5 34.0 51.0
65 13.1 10.5 15.7

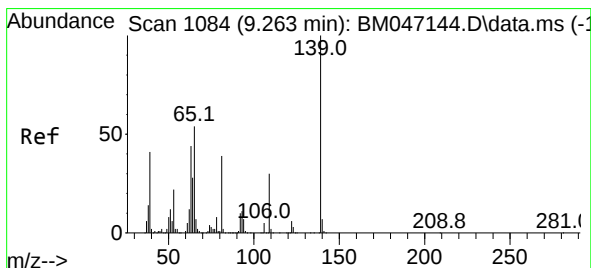
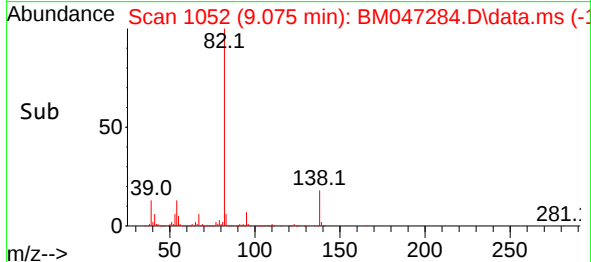
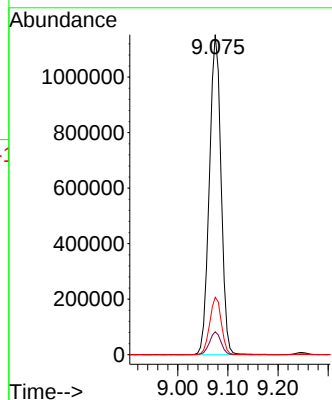
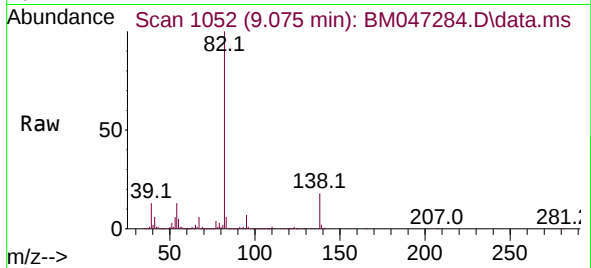




#25
Isophorone
Concen: 43.593 ng
RT: 9.075 min Scan# 1052
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

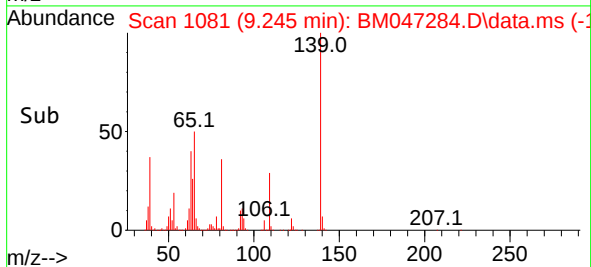
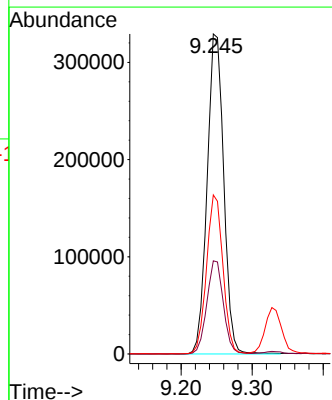
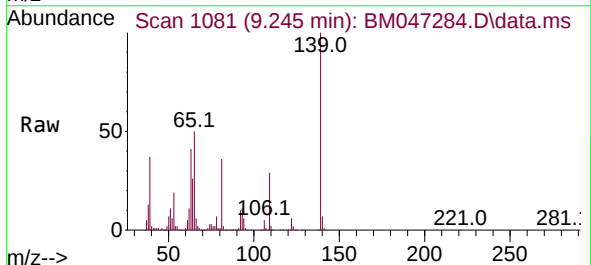
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

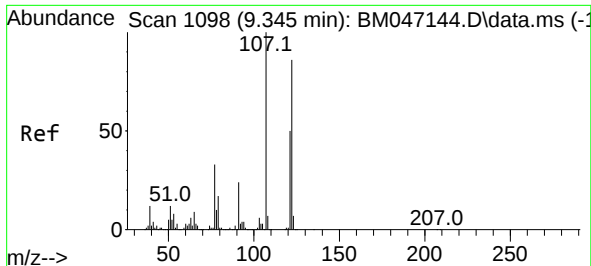
Tgt Ion: 82 Resp: 1863455
Ion Ratio Lower Upper
82 100
95 7.1 5.5 8.3
138 18.0 13.5 20.3



#26
2-Nitrophenol
Concen: 48.883 ng
RT: 9.245 min Scan# 1081
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 139 Resp: 535174
Ion Ratio Lower Upper
139 100
109 29.1 24.4 36.6
65 49.7 43.0 64.6

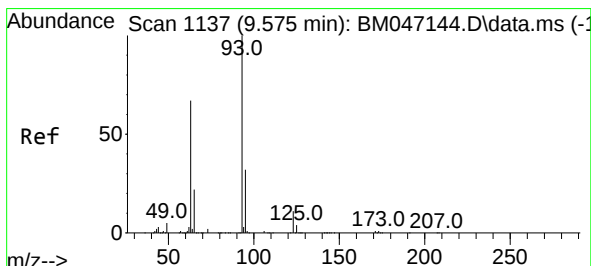
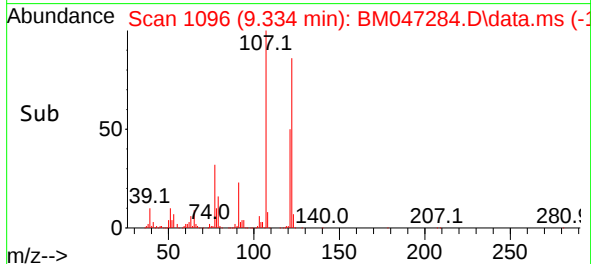
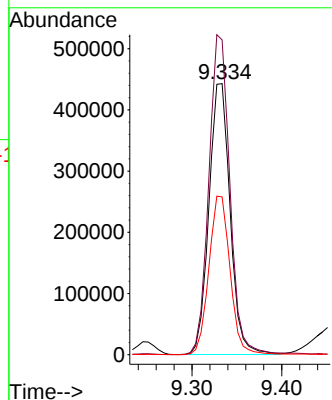
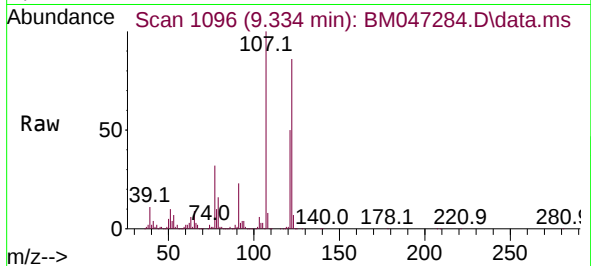




#27
2,4-Dimethylphenol
Concen: 56.714 ng
RT: 9.334 min Scan# 1096
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

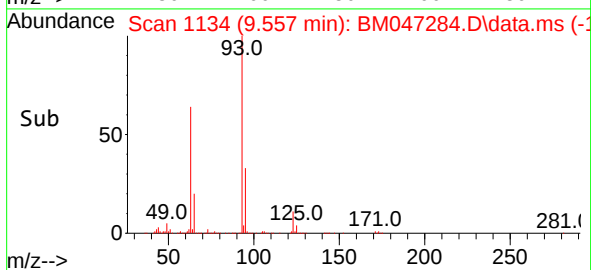
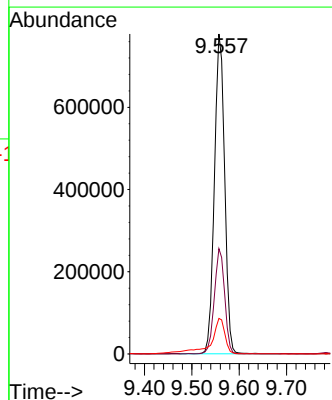
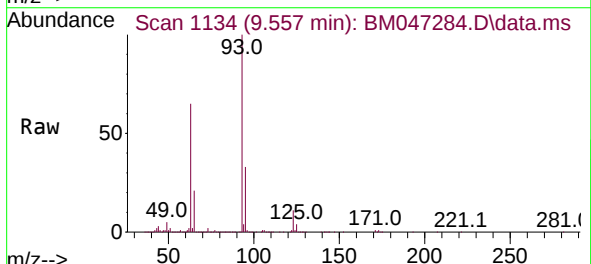
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

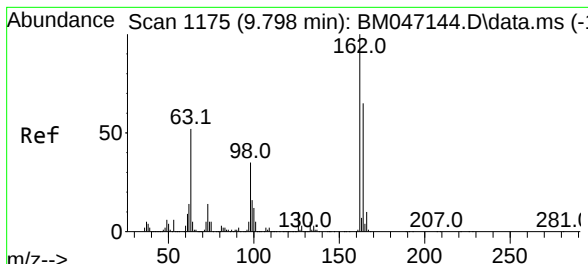
Tgt Ion:122 Resp: 727317
Ion Ratio Lower Upper
122 100
107 116.1 92.8 139.2
121 58.2 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 43.438 ng
RT: 9.557 min Scan# 1134
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 93 Resp: 1168351
Ion Ratio Lower Upper
93 100
95 32.9 25.8 38.8
123 11.1 9.0 13.4

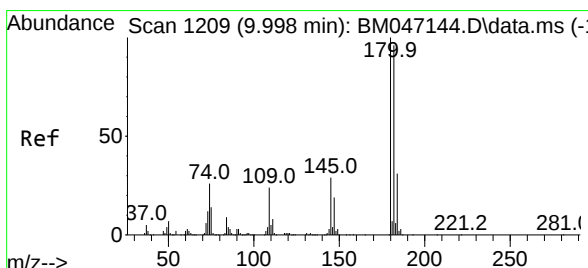
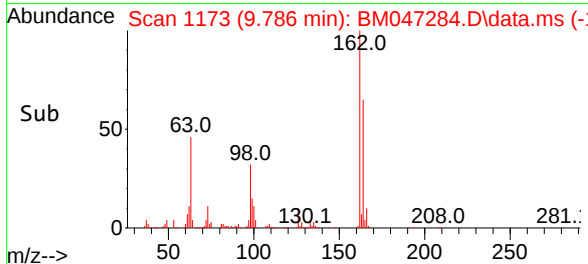
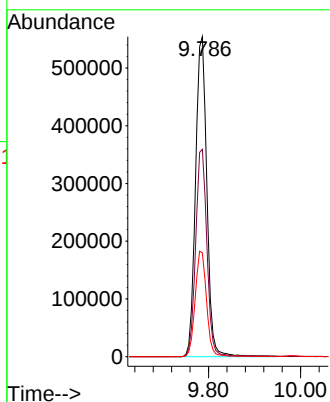
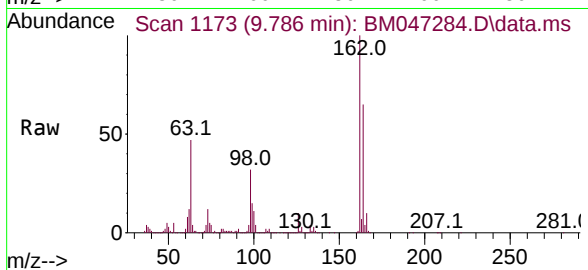




#29
2,4-Dichlorophenol
Concen: 49.796 ng
RT: 9.786 min Scan# 1175
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

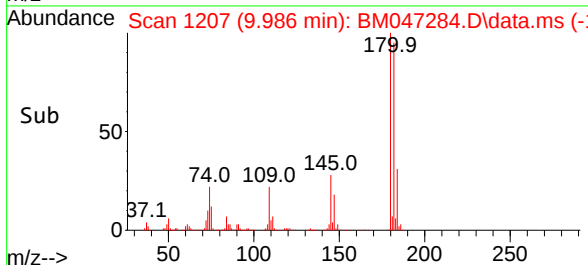
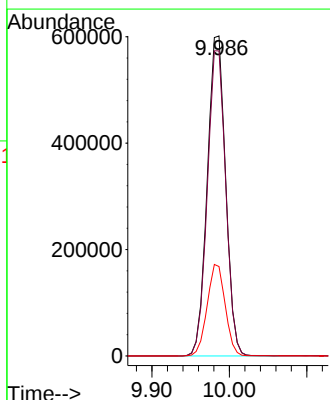
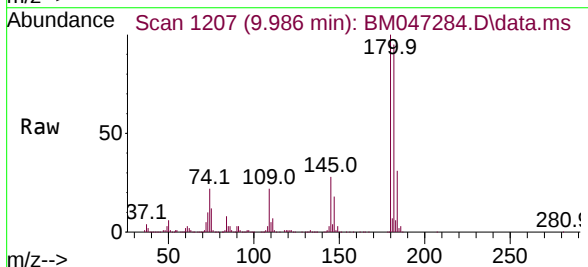
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

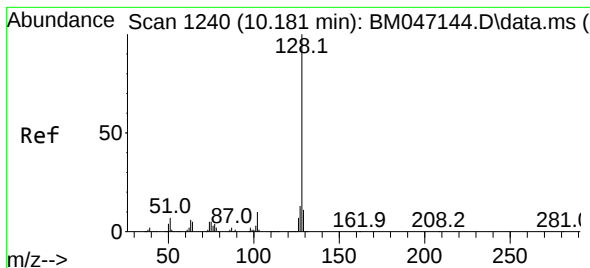
Tgt Ion:162 Resp: 947537
Ion Ratio Lower Upper
162 100
164 64.8 44.7 84.7
98 32.4 14.9 54.9



#30
1,2,4-Trichlorobenzene
Concen: 45.869 ng
RT: 9.986 min Scan# 1207
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:180 Resp: 987739
Ion Ratio Lower Upper
180 100
182 95.3 76.6 115.0
145 27.9 23.4 35.2

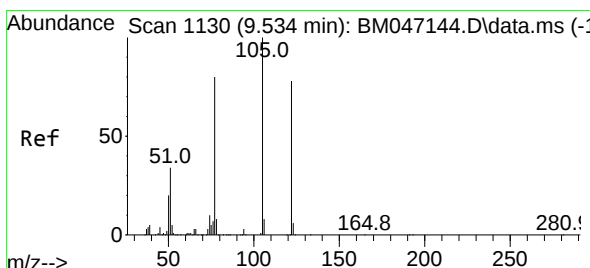
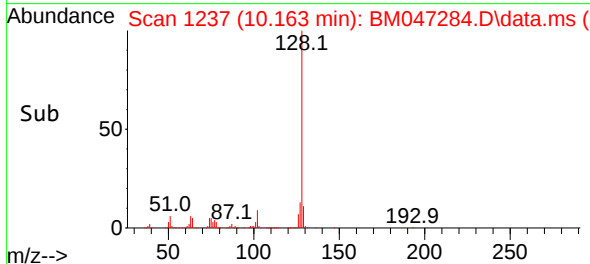
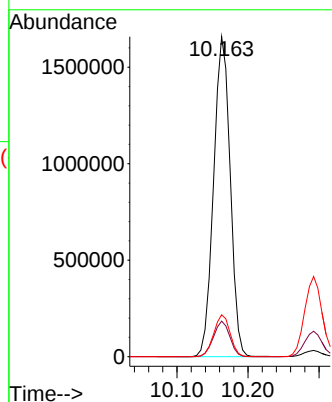
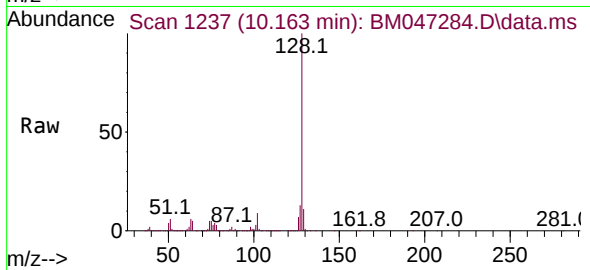




#31
Naphthalene
Concen: 43.506 ng
RT: 10.163 min Scan# 1237
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

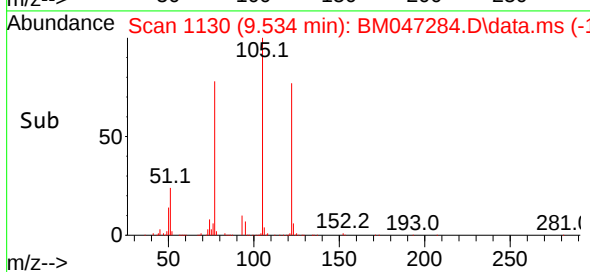
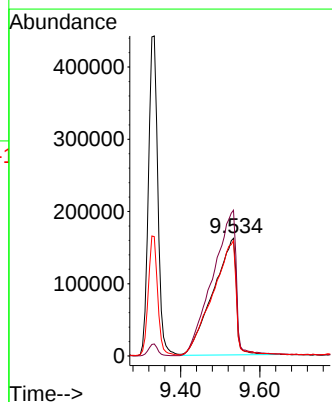
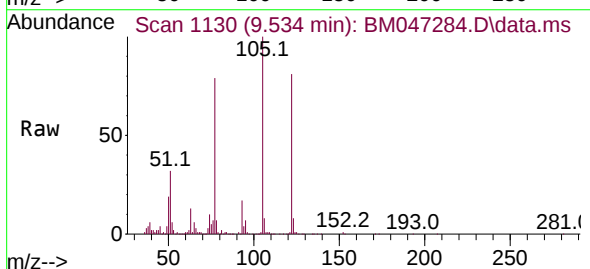
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

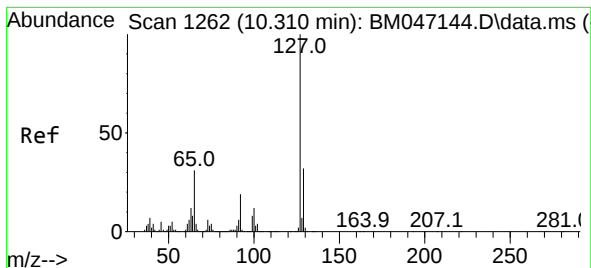
Tgt Ion:128 Resp: 2679235
Ion Ratio Lower Upper
128 100
129 11.1 8.6 13.0
127 13.1 10.2 15.4



#32
Benzoic acid
Concen: 44.163 ng
RT: 9.534 min Scan# 1130
Delta R.T. -0.000 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:122 Resp: 658003
Ion Ratio Lower Upper
122 100
105 123.9 107.1 147.1
77 98.1 82.1 122.1





#33

4-Chloroaniline

Concen: 30.953 ng

RT: 10.292 min Scan# 1259

Delta R.T. -0.018 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion:127 Resp: 733028

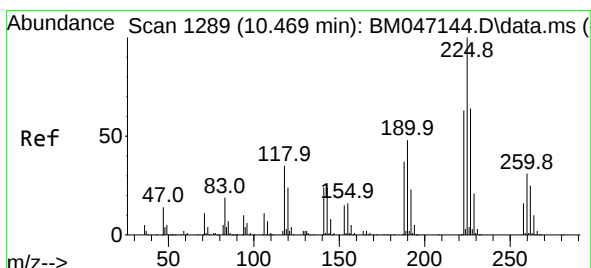
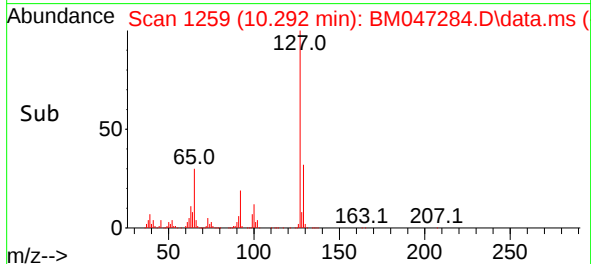
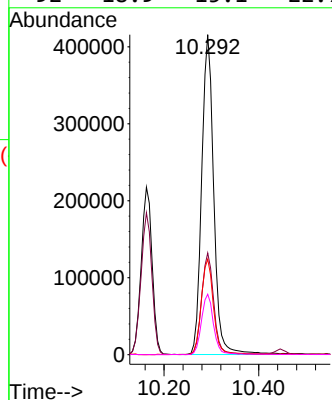
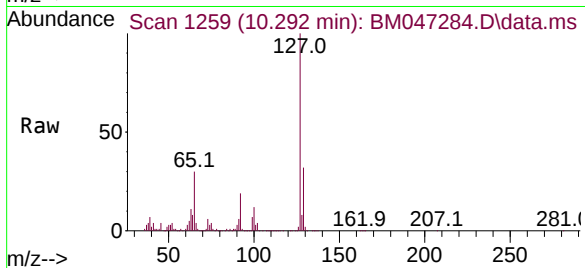
Ion Ratio Lower Upper

127 100

129 31.8 25.8 38.8

65 29.8 24.9 37.3

92 18.9 15.1 22.7



#34

Hexachlorobutadiene

Concen: 50.132 ng

RT: 10.445 min Scan# 1285

Delta R.T. -0.024 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

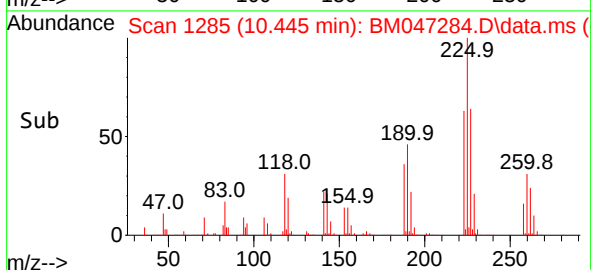
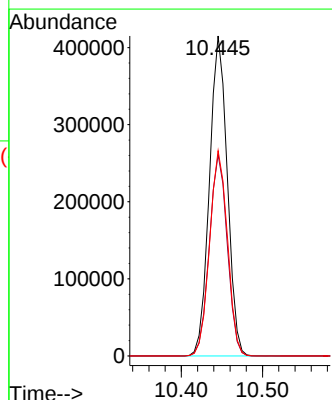
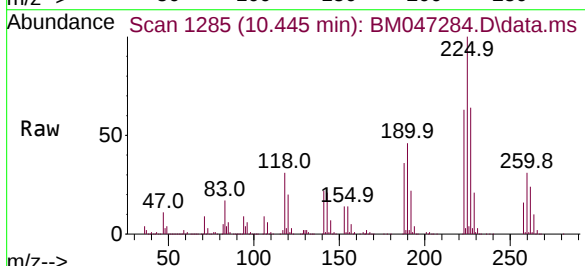
Tgt Ion:225 Resp: 631868

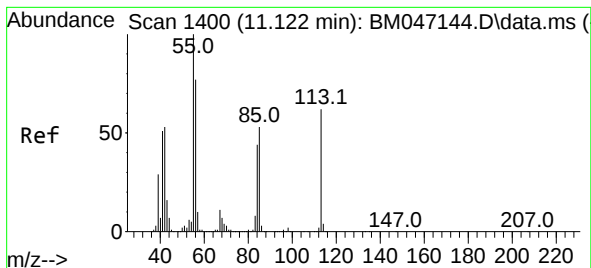
Ion Ratio Lower Upper

225 100

223 62.9 50.2 75.2

227 64.1 51.4 77.0

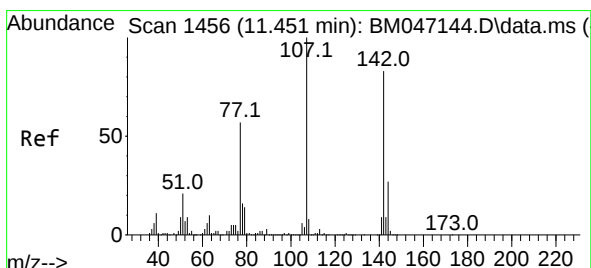
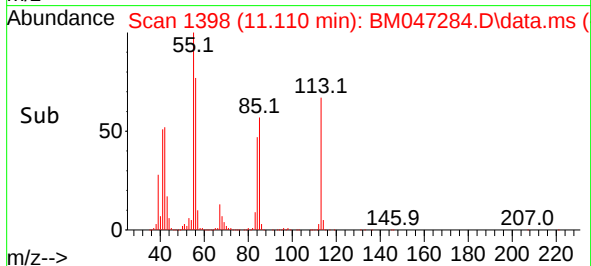
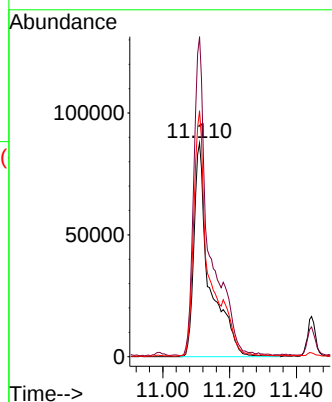
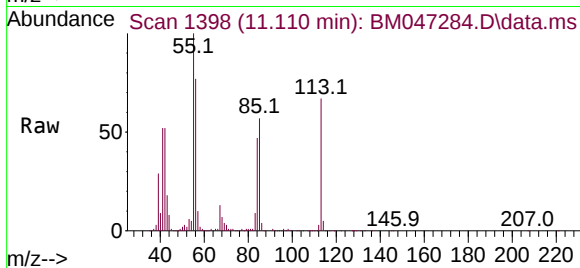




#35
 Caprolactam
 Concen: 42.989 ng
 RT: 11.110 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

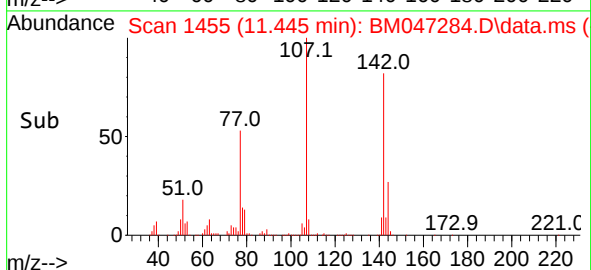
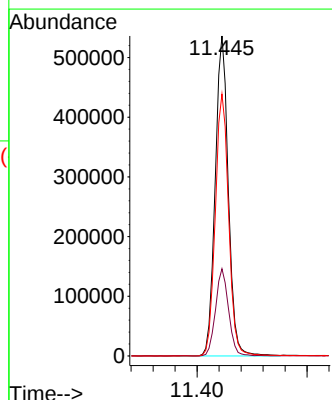
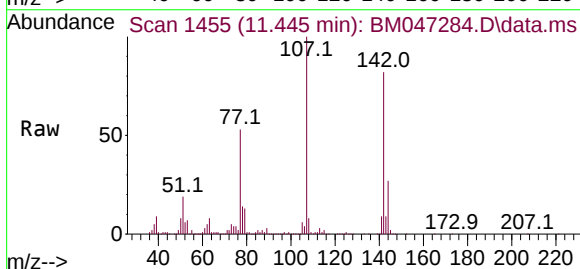
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

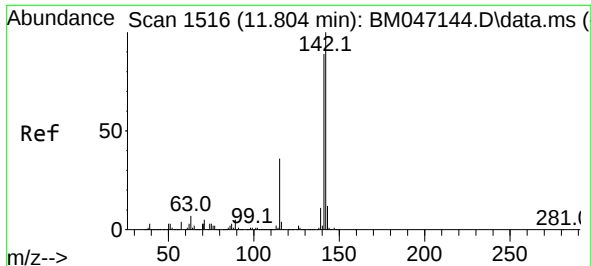
Tgt Ion:113 Resp: 284080
 Ion Ratio Lower Upper
 113 100
 55 149.8 140.5 180.5
 56 115.1 103.6 143.6



#36
 4-Chloro-3-methylphenol
 Concen: 43.940 ng
 RT: 11.445 min Scan# 1455
 Delta R.T. -0.006 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

Tgt Ion:107 Resp: 890448
 Ion Ratio Lower Upper
 107 100
 144 27.3 21.8 32.6
 142 81.9 66.8 100.2

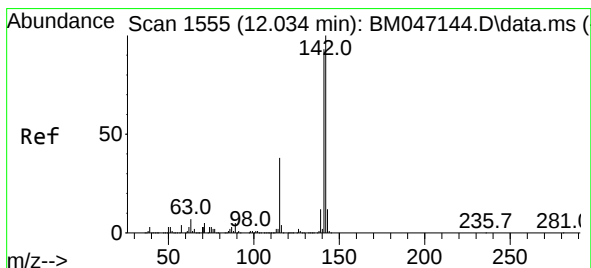
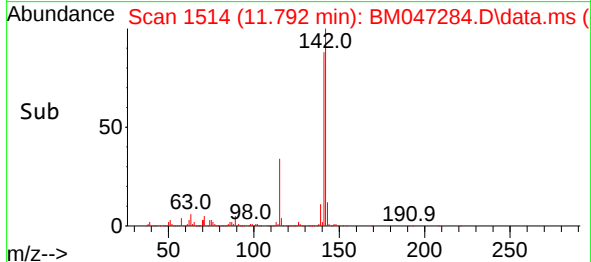
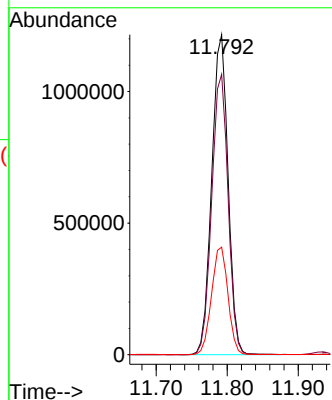
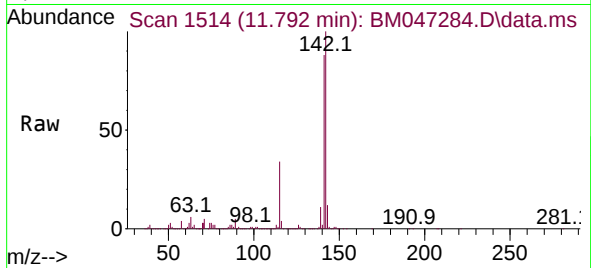




#37
2-Methylnaphthalene
Concen: 44.199 ng
RT: 11.792 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

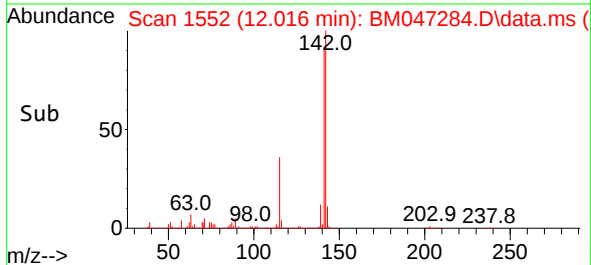
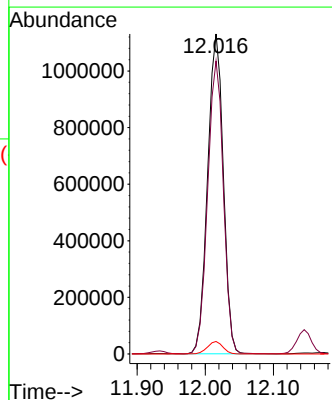
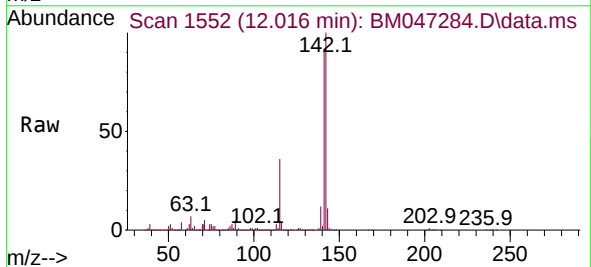
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BNA_M
ClientSampleId :
LIVONIA-SOILMSD

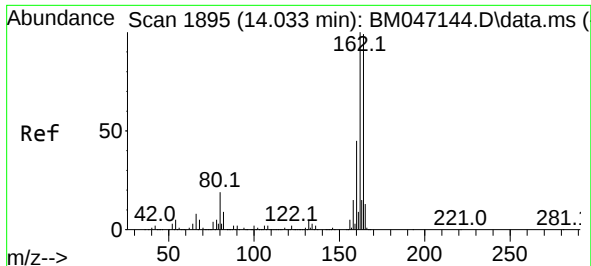
Tgt Ion:142 Resp: 1937997
Ion Ratio Lower Upper
142 100
141 87.6 70.9 106.3
115 33.6 28.7 43.1



#38
1-Methylnaphthalene
Concen: 41.751 ng
RT: 12.016 min Scan# 1552
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:142 Resp: 1809233
Ion Ratio Lower Upper
142 100
141 91.6 74.6 111.8
116 3.9 3.1 4.7

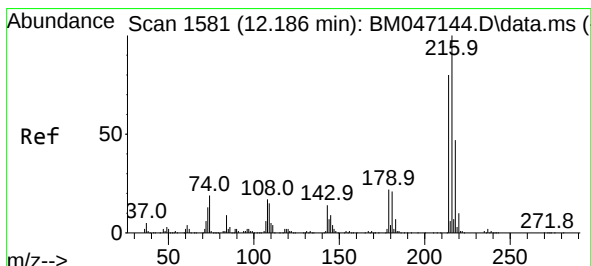
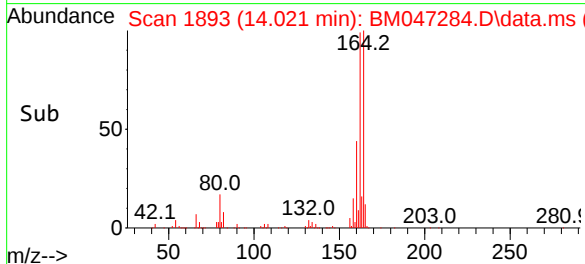
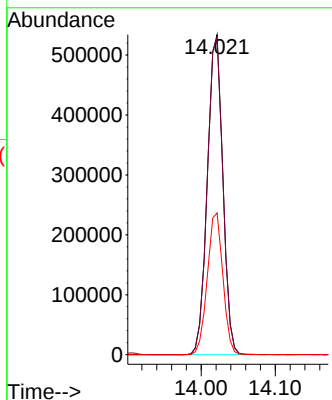
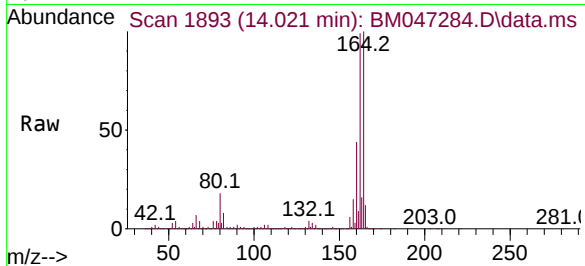




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.021 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

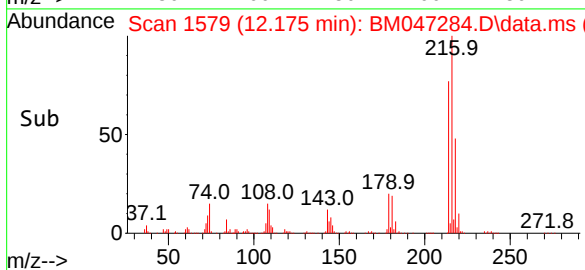
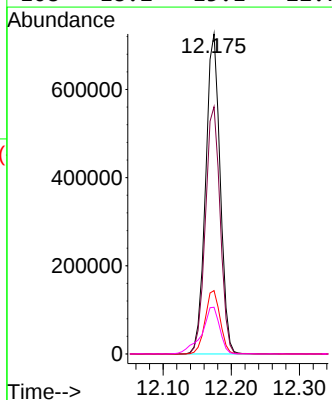
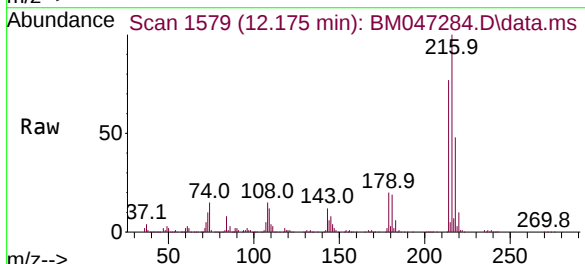
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BNA_M
ClientSampleId :
LIVONIA-SOILMSD

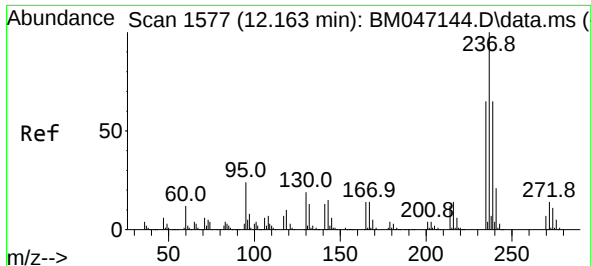
Tgt Ion:164 Resp: 773731
Ion Ratio Lower Upper
164 100
162 99.3 80.7 121.1
160 44.3 36.0 54.0



#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.103 ng
RT: 12.175 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:216 Resp: 1078464
Ion Ratio Lower Upper
216 100
214 78.6 63.4 95.2
179 20.4 17.6 26.4
108 18.2 15.1 22.7

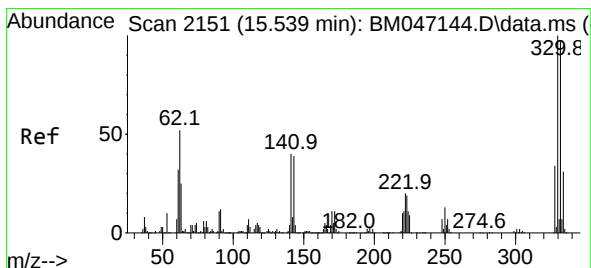
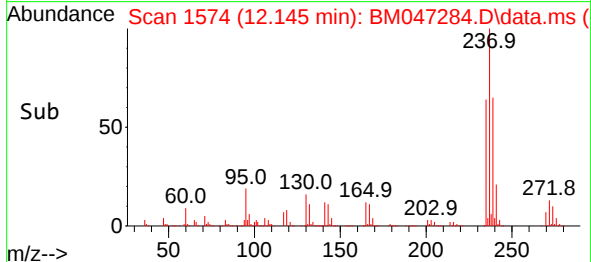
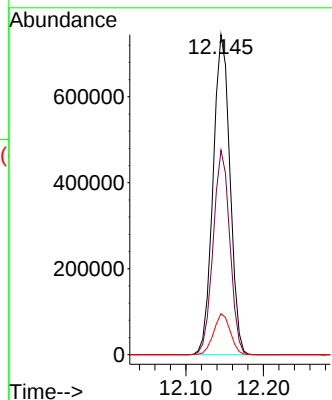
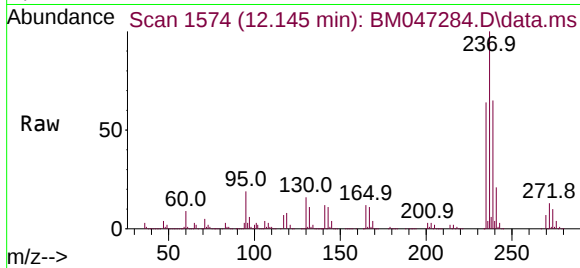




#41
Hexachlorocyclopentadiene
Concen: 152.847 ng
RT: 12.145 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

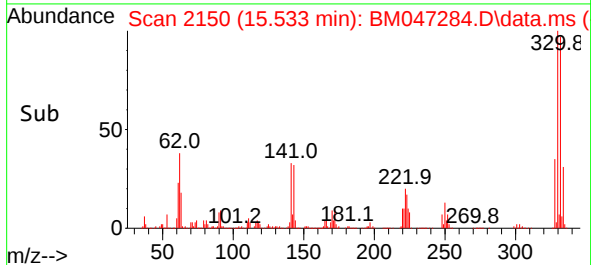
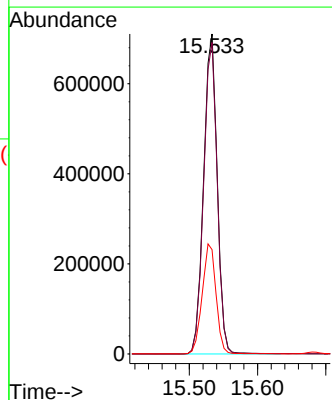
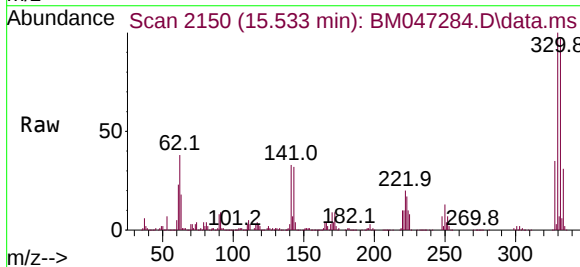
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

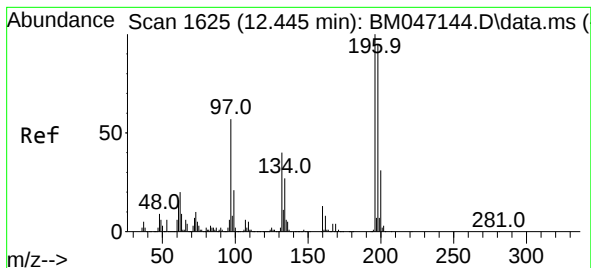
Tgt Ion:237 Resp: 1126361
Ion Ratio Lower Upper
237 100
235 63.9 44.8 84.8
272 12.8 0.0 33.5



#42
2,4,6-Tribromophenol
Concen: 109.580 ng
RT: 15.533 min Scan# 2150
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:330 Resp: 983103
Ion Ratio Lower Upper
330 100
332 97.1 77.4 116.2
141 35.0 31.6 47.4





#43

2,4,6-Trichlorophenol

Concen: 51.126 ng

RT: 12.433 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

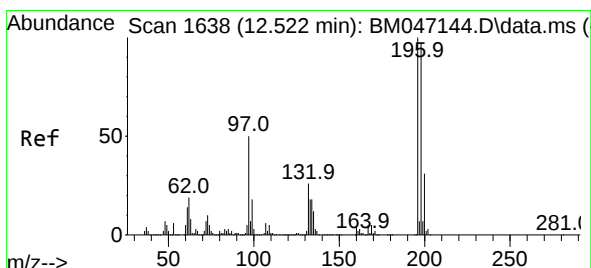
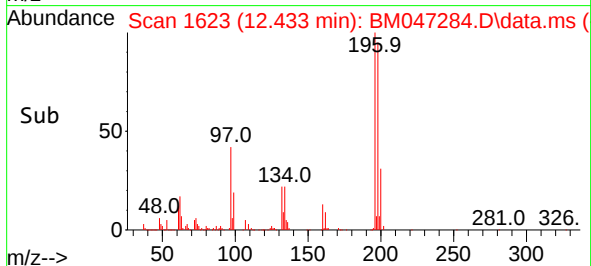
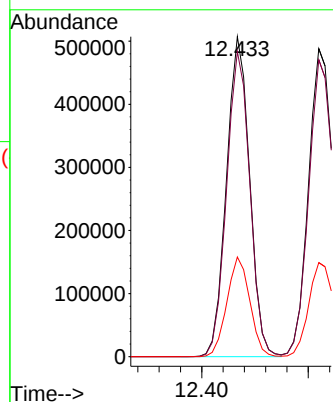
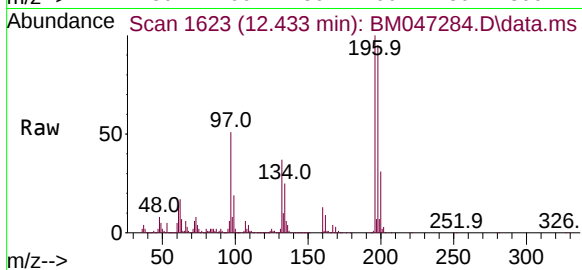
Tgt Ion:196 Resp: 766884

Ion Ratio Lower Upper

196 100

198 95.4 75.6 113.4

200 31.1 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 48.947 ng

RT: 12.510 min Scan# 1636

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Tgt Ion:196 Resp: 815192

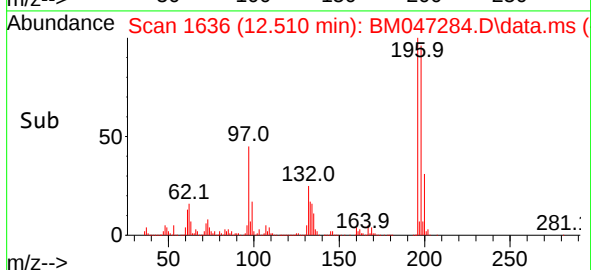
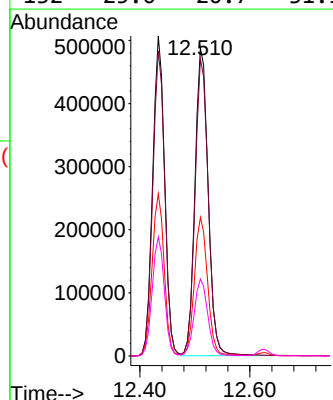
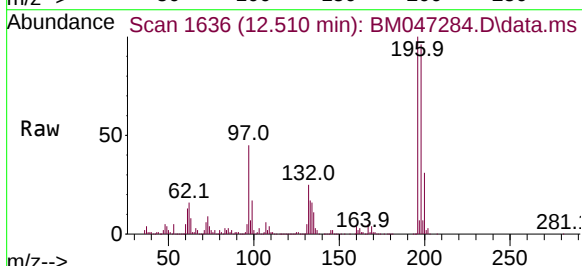
Ion Ratio Lower Upper

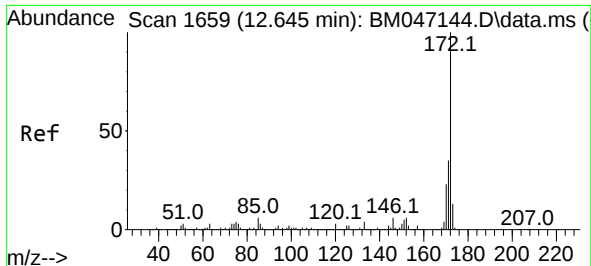
196 100

198 96.4 77.7 116.5

97 45.0 39.8 59.8

132 25.0 20.7 31.1

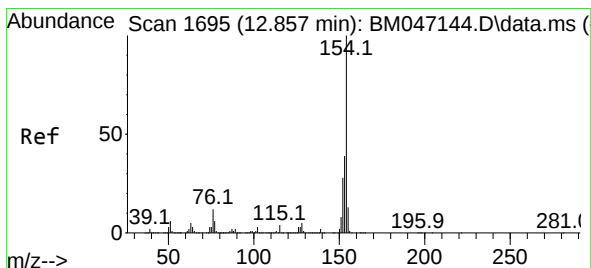
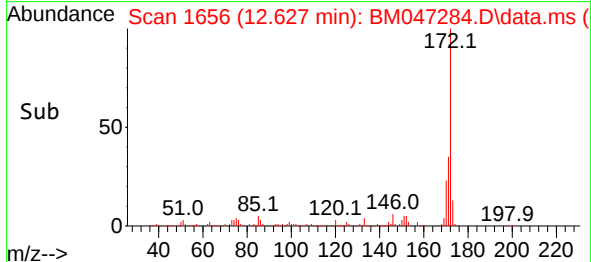
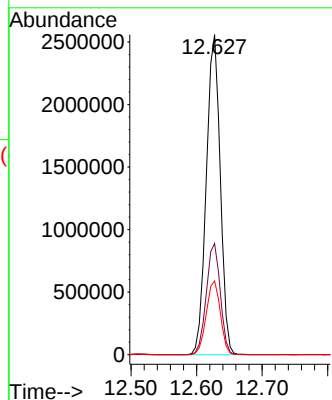
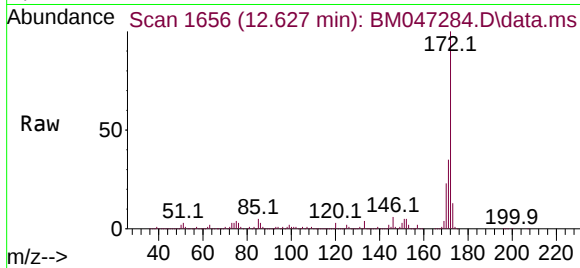




#45
2-Fluorobiphenyl
Concen: 75.535 ng
RT: 12.627 min Scan# 1656
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

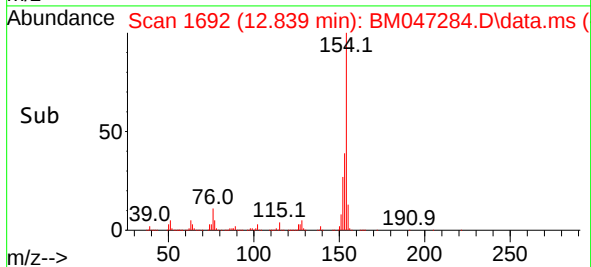
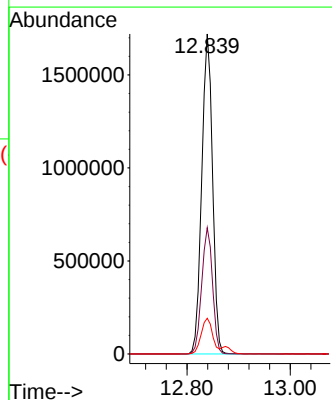
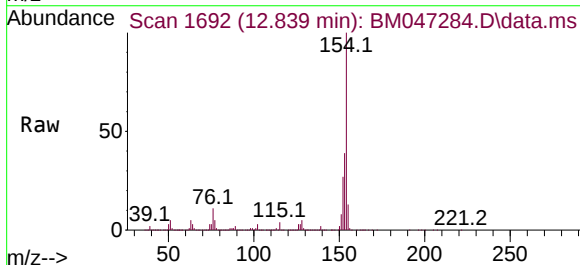
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

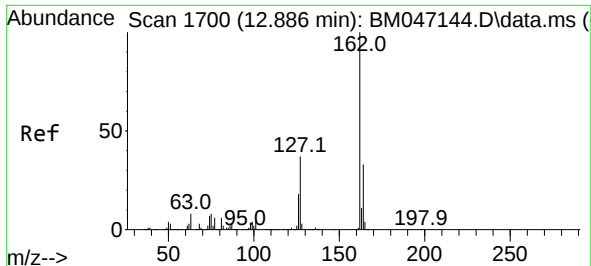
Tgt Ion:172 Resp: 3788838
Ion Ratio Lower Upper
172 100
171 34.7 27.8 41.6
170 23.0 18.7 28.1



#46
1,1'-Biphenyl
Concen: 45.278 ng
RT: 12.839 min Scan# 1692
Delta R.T. -0.018 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:154 Resp: 2494029
Ion Ratio Lower Upper
154 100
153 39.4 19.0 59.0
76 11.2 0.0 31.9

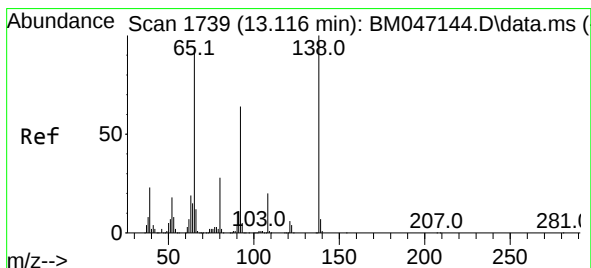
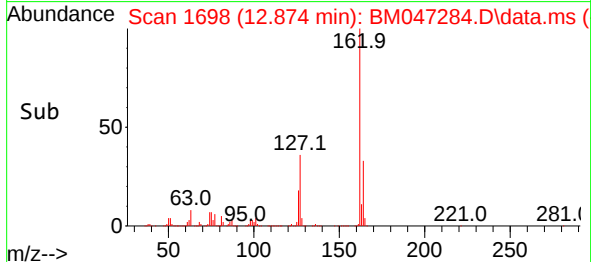
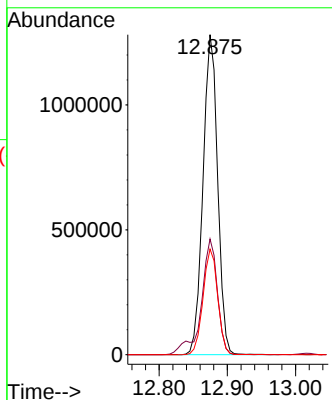
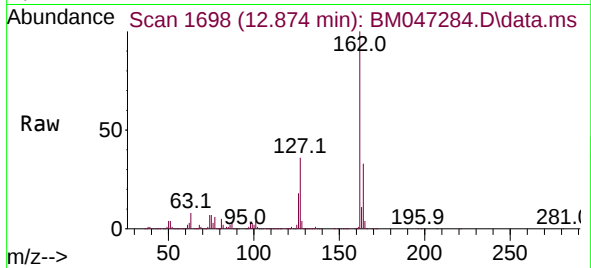




#47
2-Chloronaphthalene
Concen: 44.415 ng
RT: 12.874 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

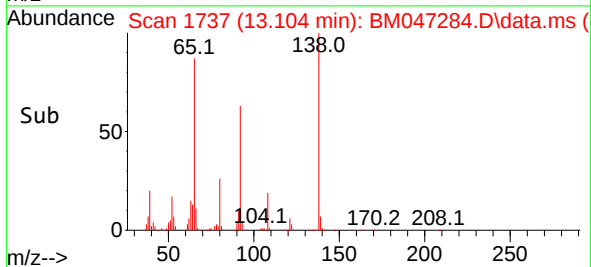
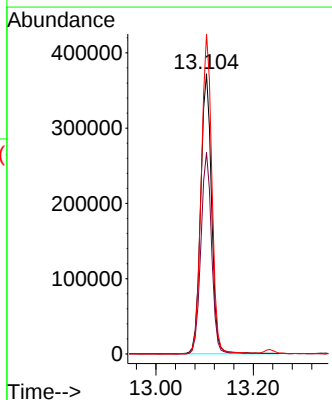
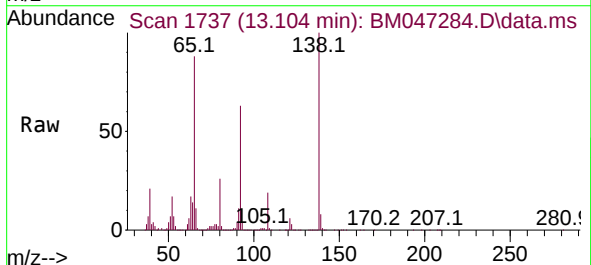
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

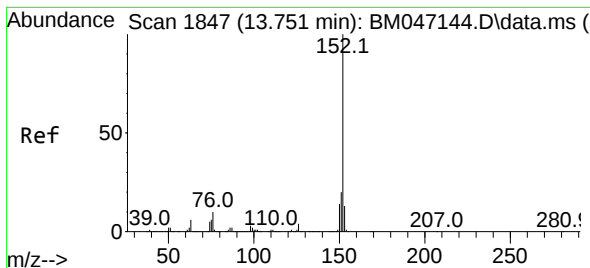
Tgt Ion:162 Resp: 1912224
Ion Ratio Lower Upper
162 100
127 36.2 30.0 45.0
164 33.0 26.3 39.5



#48
2-Nitroaniline
Concen: 42.800 ng
RT: 13.104 min Scan# 1737
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion: 65 Resp: 577282
Ion Ratio Lower Upper
65 100
92 71.9 55.1 82.7
138 114.2 85.9 128.9





#49

Acenaphthylene

Concen: 48.425 ng

RT: 13.733 min Scan# 1844

Delta R.T. -0.018 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

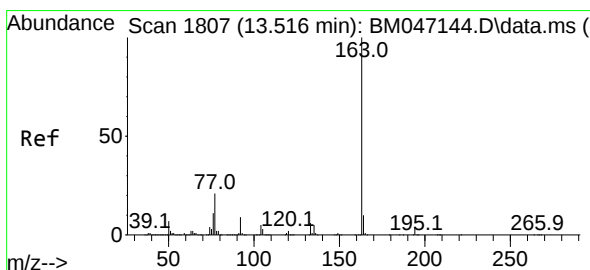
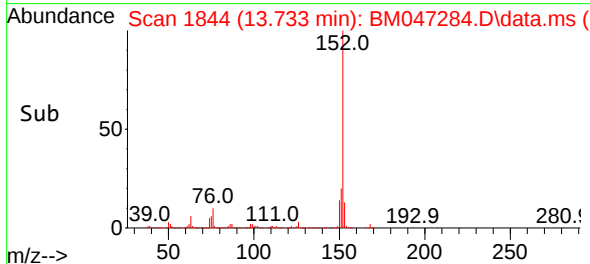
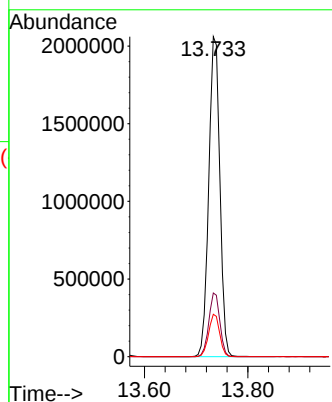
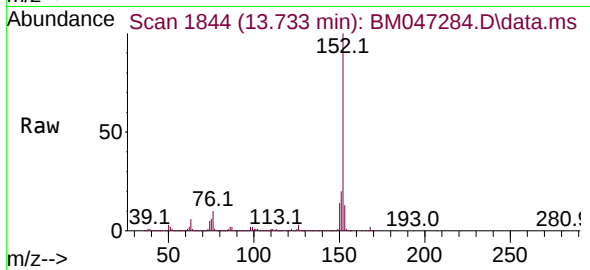
Tgt Ion:152 Resp: 3073138

Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.2 10.4 15.6



#50

Dimethylphthalate

Concen: 45.432 ng

RT: 13.504 min Scan# 1805

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

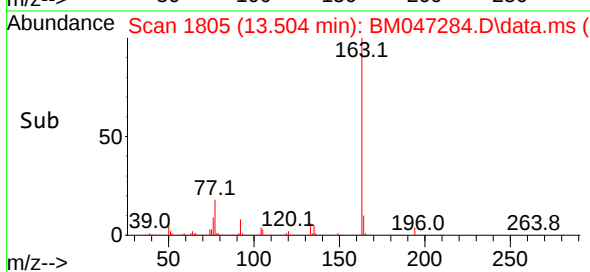
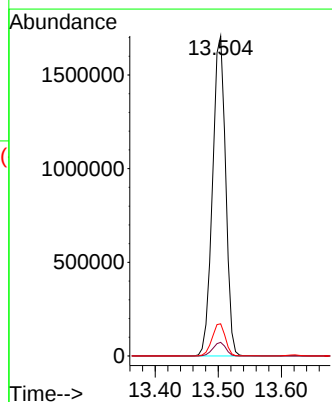
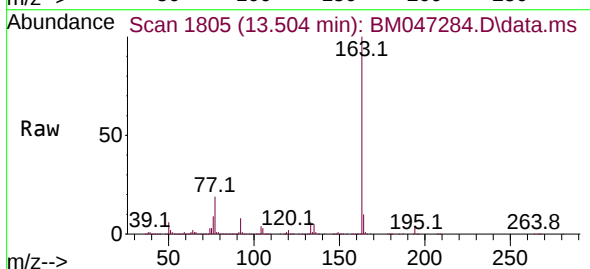
Tgt Ion:163 Resp: 2455080

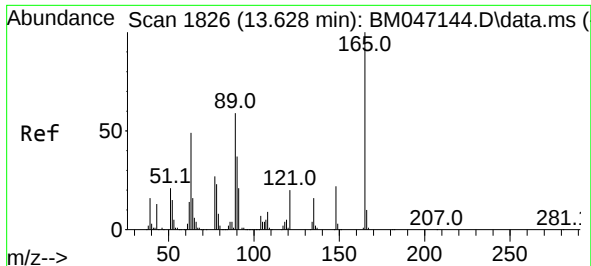
Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

164 10.1 8.0 12.0

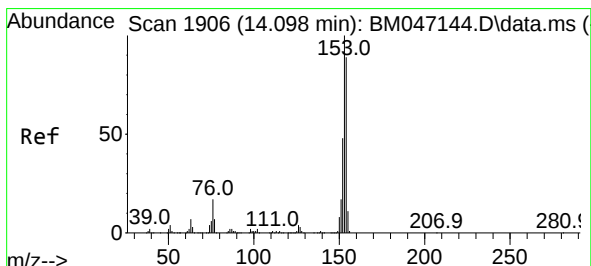
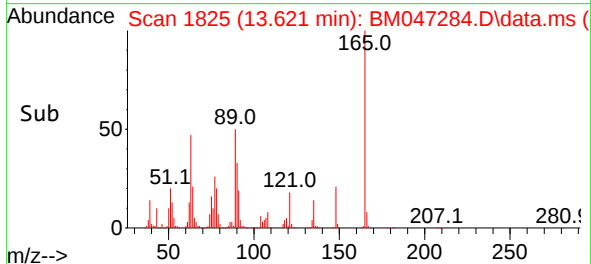
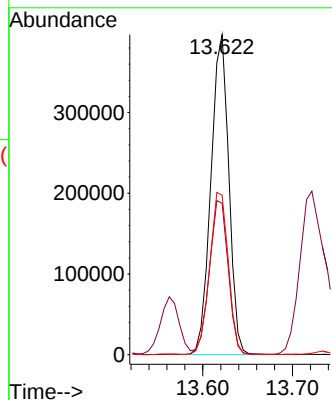
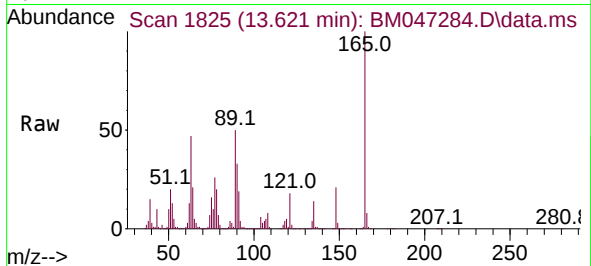




#51
2,6-Dinitrotoluene
Concen: 43.439 ng
RT: 13.621 min Scan# 1825
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

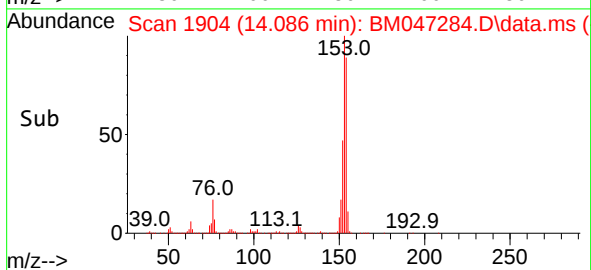
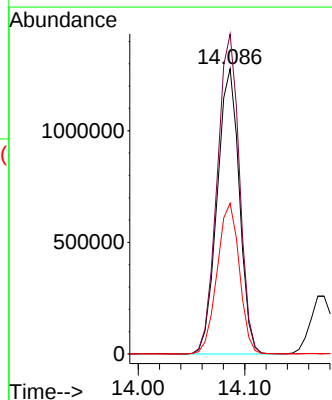
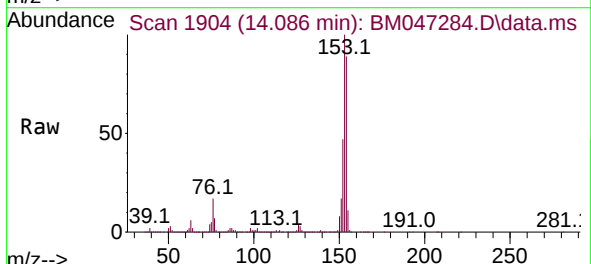
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

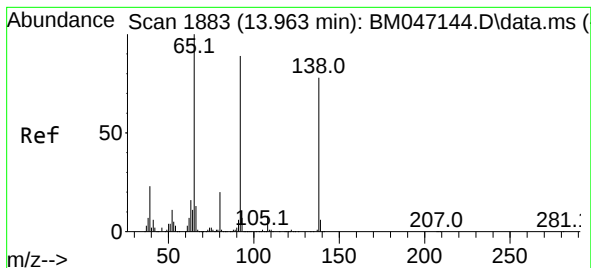
Tgt Ion:165 Resp: 548731
Ion Ratio Lower Upper
165 100
63 47.3 46.5 69.7
89 49.9 47.3 70.9



#52
Acenaphthene
Concen: 45.795 ng
RT: 14.086 min Scan# 1904
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:154 Resp: 1843525
Ion Ratio Lower Upper
154 100
153 112.2 90.3 135.5
152 52.8 42.9 64.3

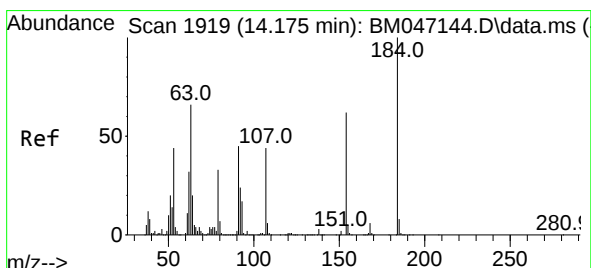
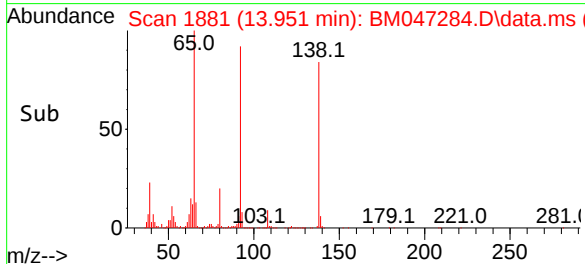
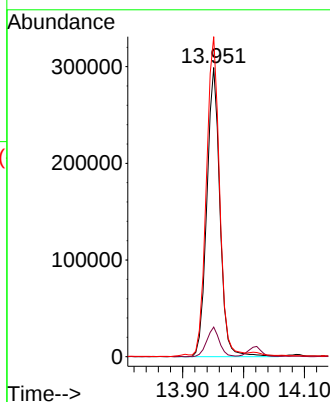
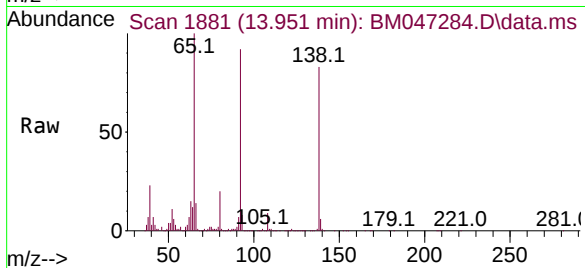




#53
3-Nitroaniline
Concen: 35.281 ng
RT: 13.951 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

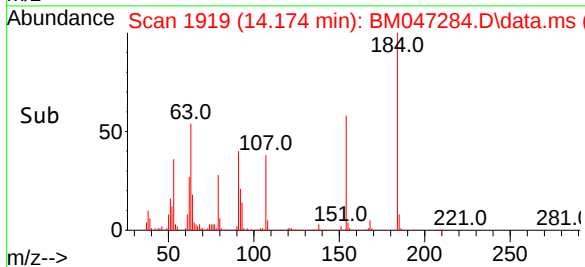
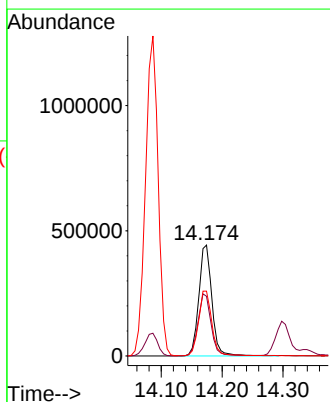
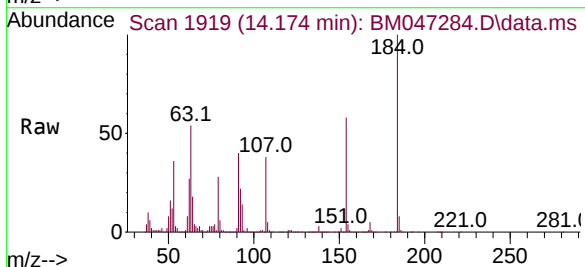
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

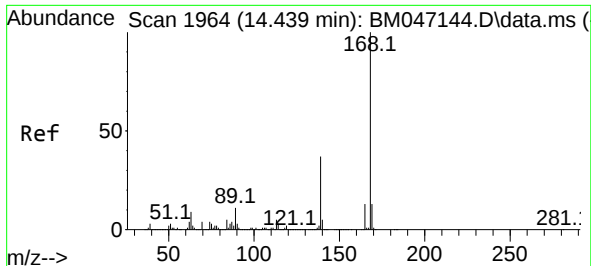
Tgt Ion:138 Resp: 446583
Ion Ratio Lower Upper
138 100
108 10.3 7.9 11.9
92 110.7 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 87.250 ng
RT: 14.174 min Scan# 1919
Delta R.T. -0.001 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:184 Resp: 660571
Ion Ratio Lower Upper
184 100
63 53.8 52.7 79.1
154 58.5 50.4 75.6

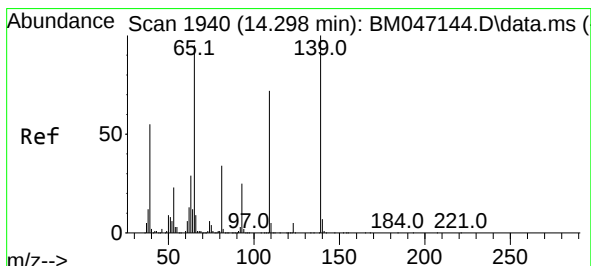
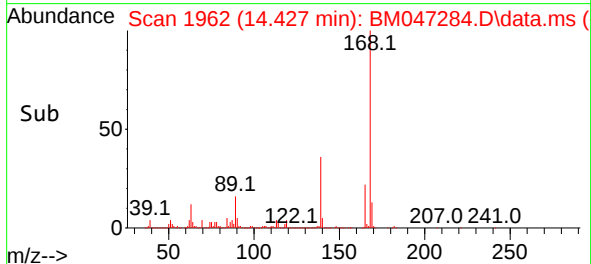
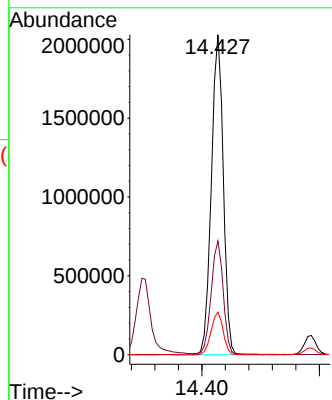
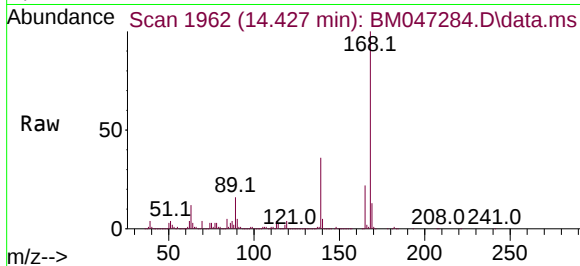




#55
Dibenzenofuran
Concen: 44.843 ng
RT: 14.427 min Scan# 1962
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

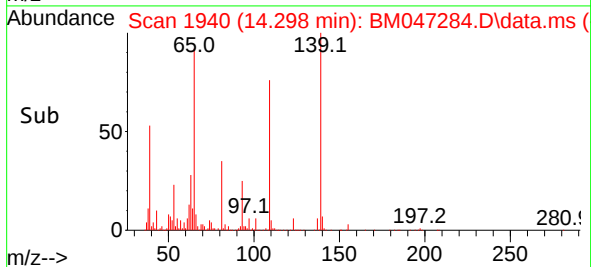
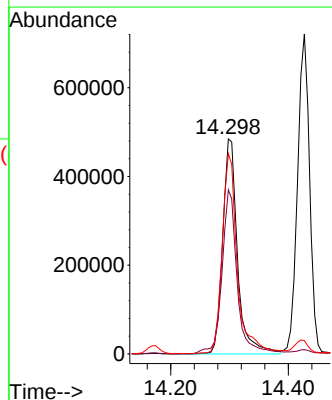
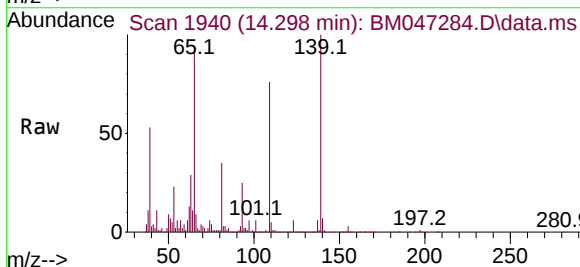
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

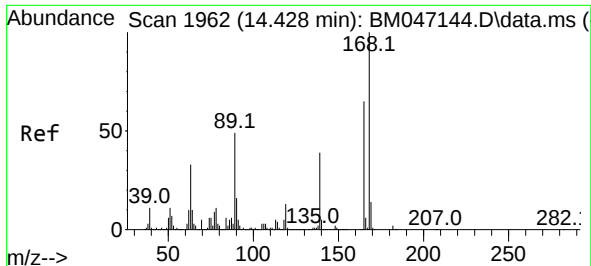
Tgt Ion:168 Resp: 2851410
Ion Ratio Lower Upper
168 100
139 35.5 29.6 44.4
169 13.3 10.7 16.1



#56
4-Nitrophenol
Concen: 78.058 ng
RT: 14.298 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:139 Resp: 851997
Ion Ratio Lower Upper
139 100
109 76.4 52.5 92.5
65 93.2 75.4 115.4



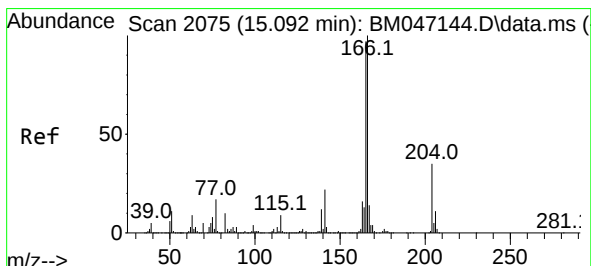
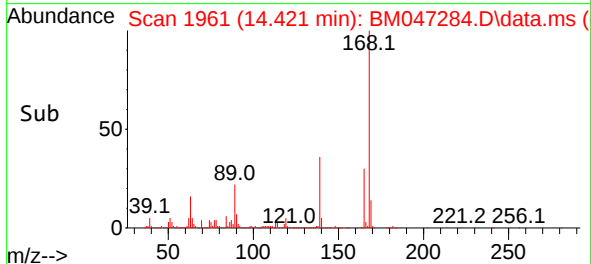
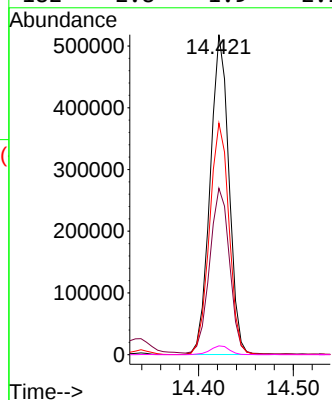
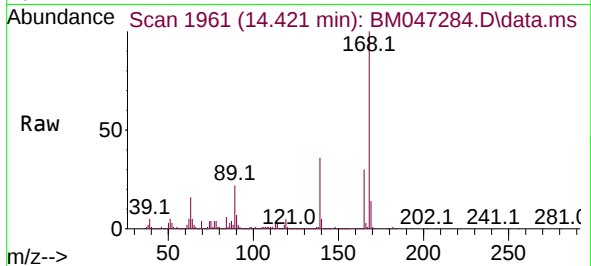


#57
2,4-Dinitrotoluene
Concen: 42.292 ng
RT: 14.421 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:165 Resp: 713070

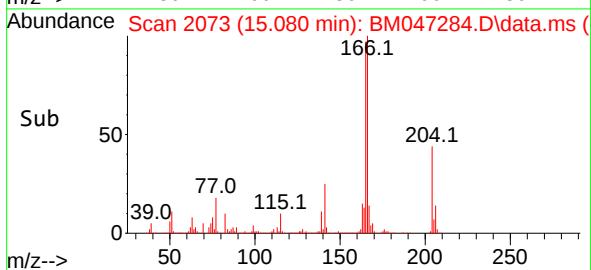
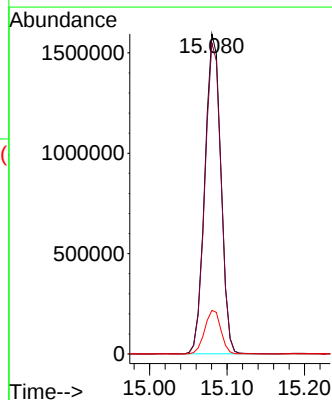
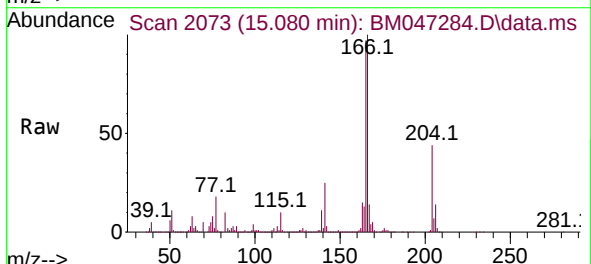
Ion	Ratio	Lower	Upper
165	100		
63	52.0	40.3	60.5
89	72.4	61.0	91.6
182	2.8	1.9	2.9

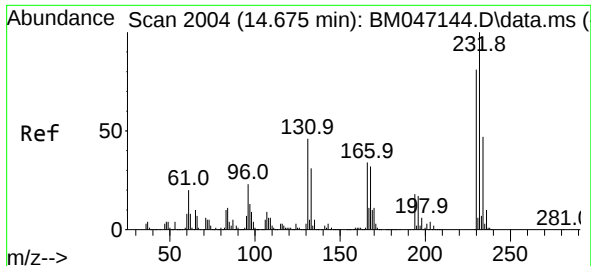


#58
Fluorene
Concen: 43.645 ng
RT: 15.080 min Scan# 2073
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:166 Resp: 2289864

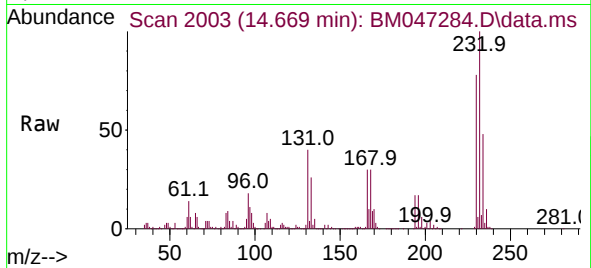
Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.4	116.0
167	13.6	11.0	16.6



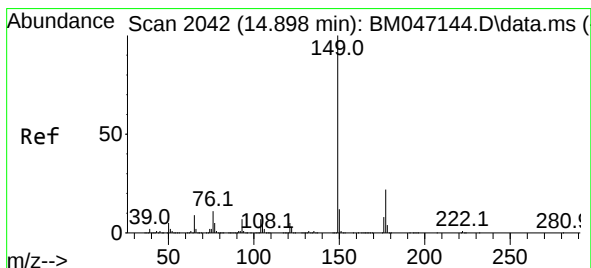
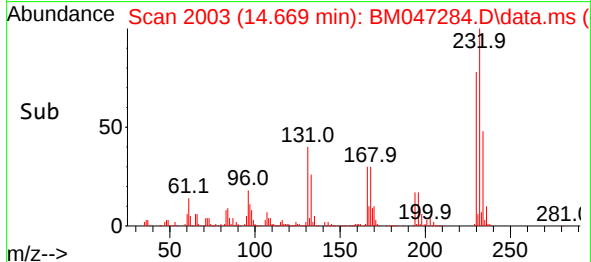
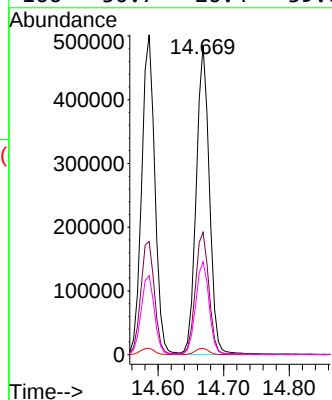


#59
2,3,4,6-Tetrachlorophenol
Concen: 49.312 ng
RT: 14.669 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

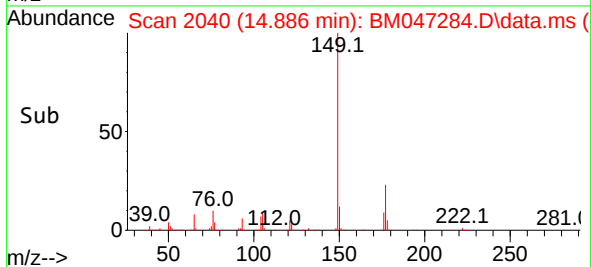
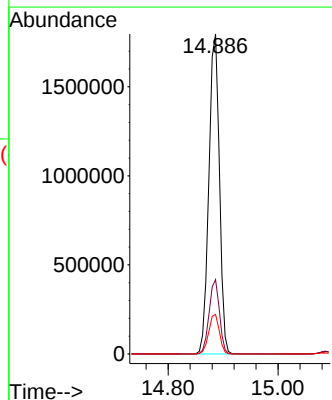
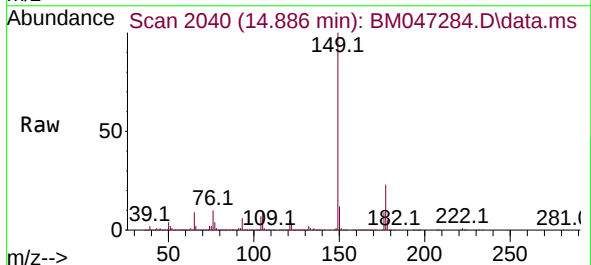


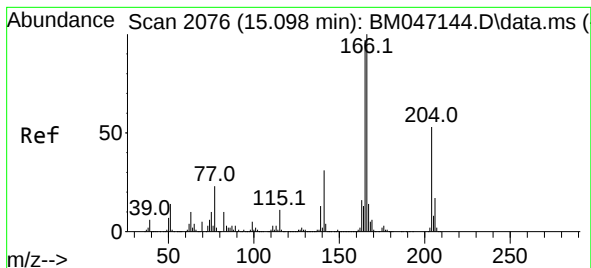
Tgt Ion:232 Resp: 674965
Ion Ratio Lower Upper
232 100
131 40.7 36.9 55.3
130 2.2 2.0 3.0
166 30.7 26.4 39.6



#60
Diethylphthalate
Concen: 43.184 ng
RT: 14.886 min Scan# 2040
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:149 Resp: 2383029
Ion Ratio Lower Upper
149 100
177 23.2 17.6 26.4
150 12.4 9.8 14.6

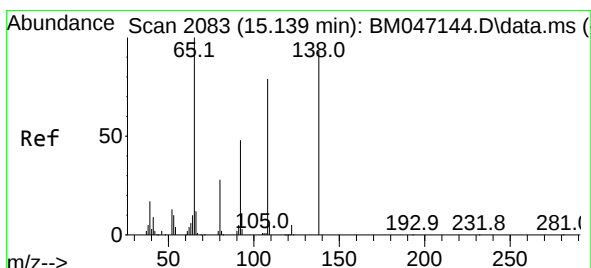
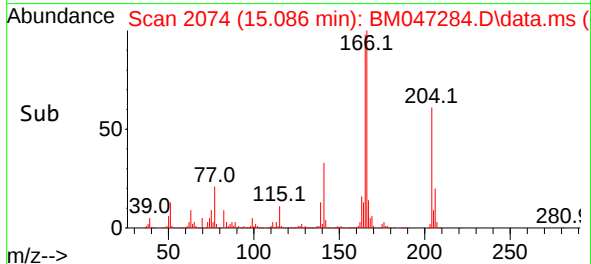
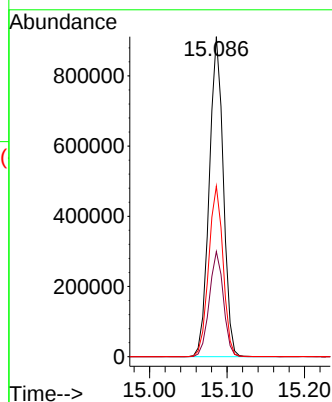
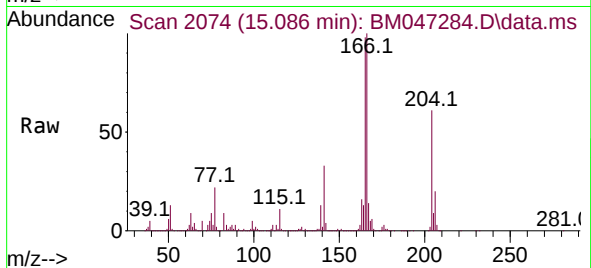




#61
4-Chlorophenyl-phenylether
Concen: 46.057 ng
RT: 15.086 min Scan# 2076
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

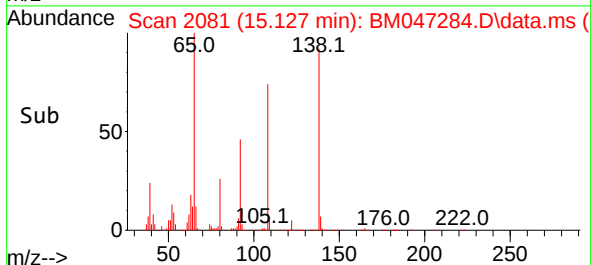
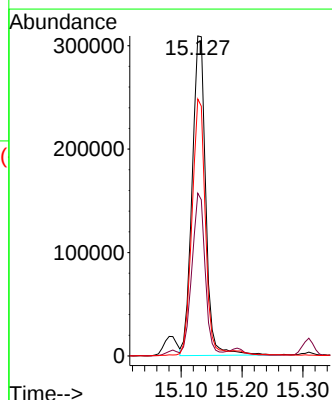
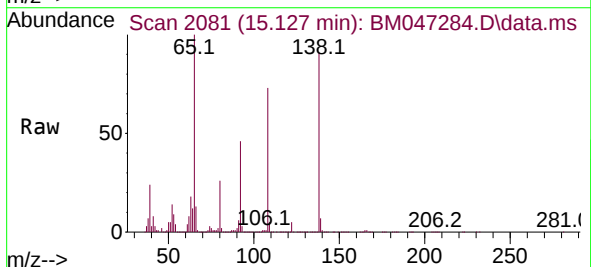
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

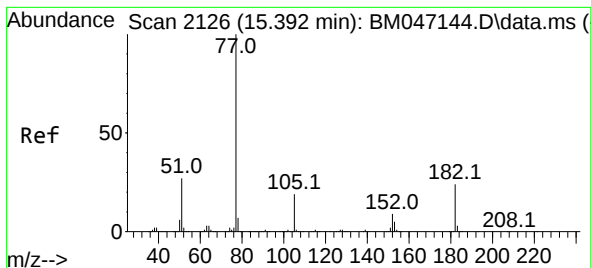
Tgt Ion:204 Resp: 1150401
Ion Ratio Lower Upper
204 100
206 32.9 26.2 39.4
141 53.3 47.2 70.8



#62
4-Nitroaniline
Concen: 38.511 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:138 Resp: 480241
Ion Ratio Lower Upper
138 100
92 50.9 31.9 71.9
108 80.3 63.8 103.8





#63

Azobenzene

Concen: 40.993 ng

RT: 15.380 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion: 77 Resp: 2144821

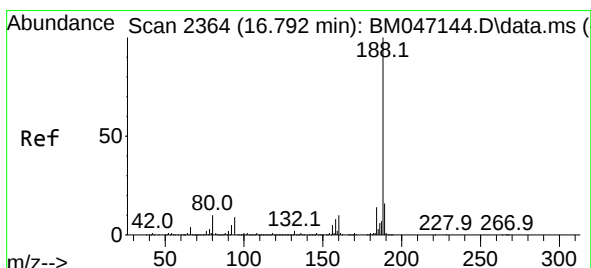
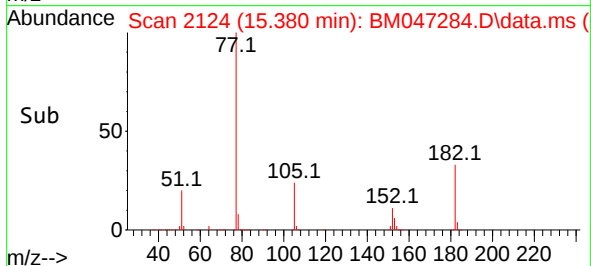
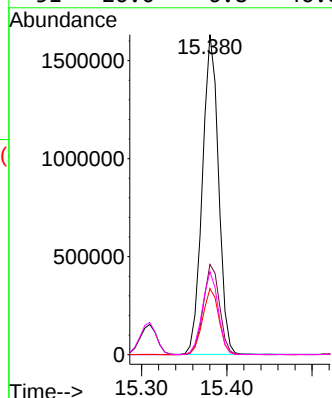
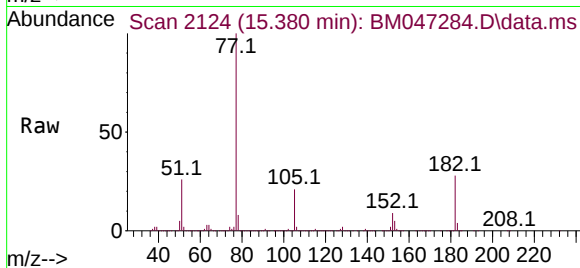
Ion Ratio Lower Upper

77 100

182 28.2 3.8 43.8

105 20.7 0.0 39.5

51 26.0 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: BM047284.D

Acq: 21 Aug 2024 00:13

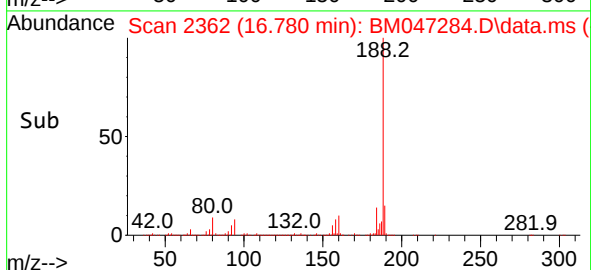
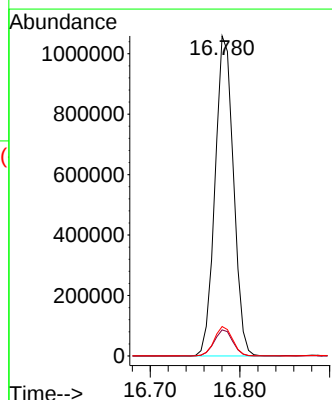
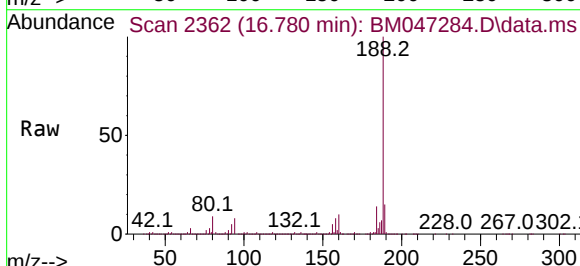
Tgt Ion:188 Resp: 1509318

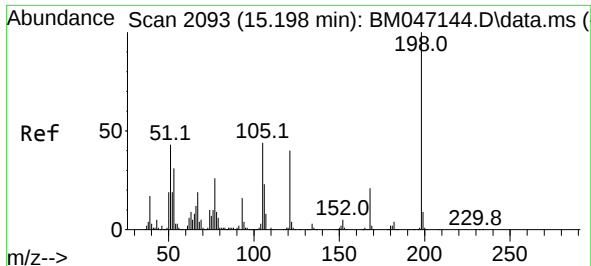
Ion Ratio Lower Upper

188 100

94 8.2 7.0 10.6

80 9.2 8.0 12.0

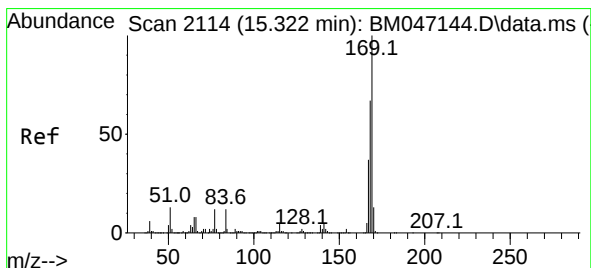
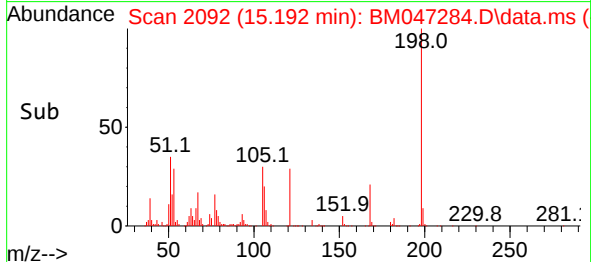
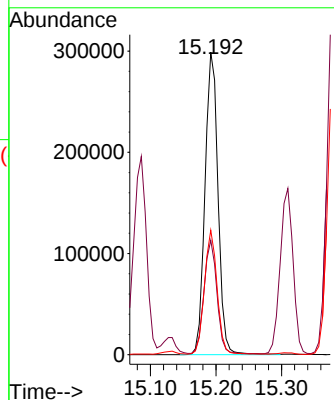
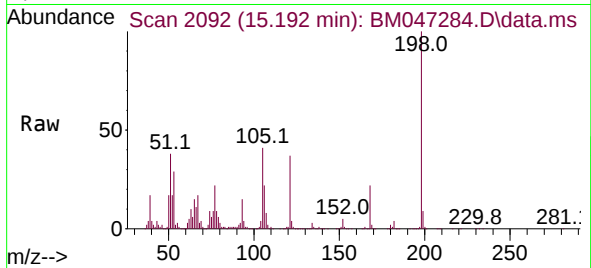




#65
4,6-Dinitro-2-methylphenol
Concen: 46.877 ng
RT: 15.192 min Scan# 2092
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

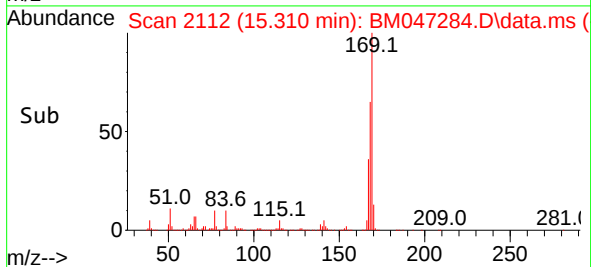
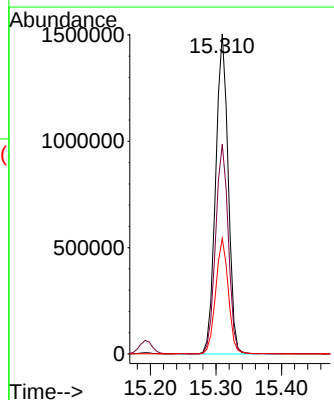
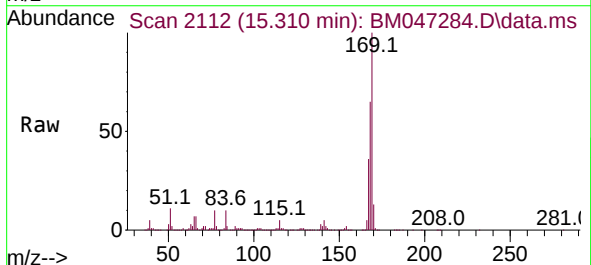
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

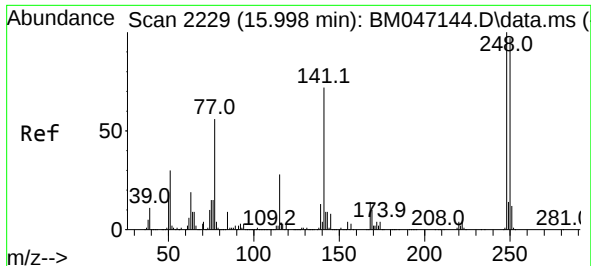
Tgt Ion:198 Resp: 414243
Ion Ratio Lower Upper
198 100
51 37.8 23.9 63.9
105 41.2 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 48.425 ng
RT: 15.310 min Scan# 2112
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:169 Resp: 1990759
Ion Ratio Lower Upper
169 100
168 65.5 53.8 80.8
167 36.1 29.3 43.9

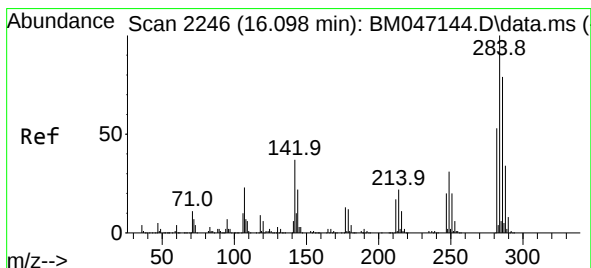
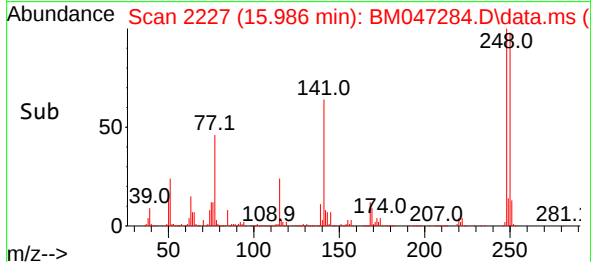
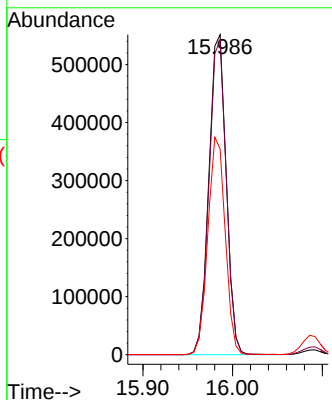
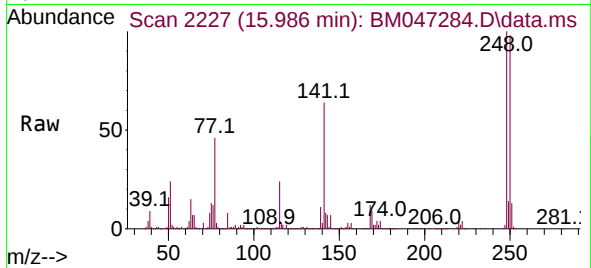




#67
4-Bromophenyl-phenylether
Concen: 50.903 ng
RT: 15.986 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

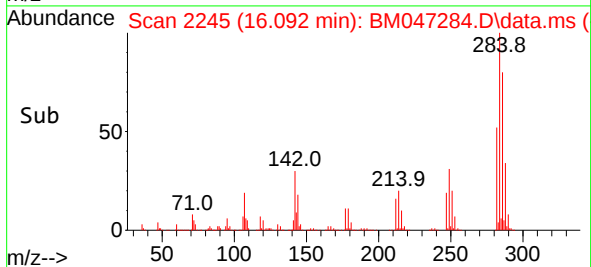
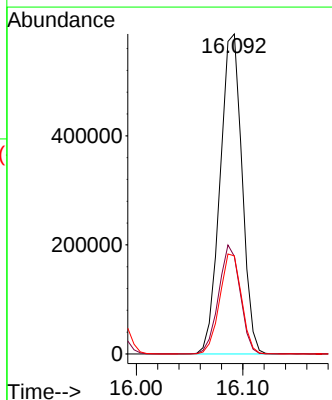
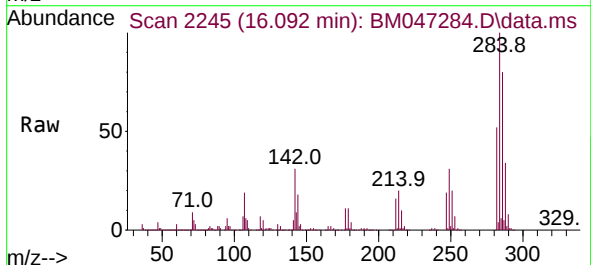
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

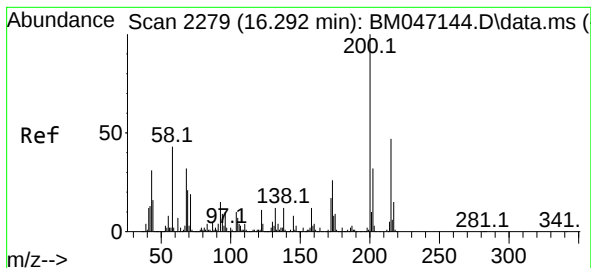
Tgt Ion:248 Resp: 740340
Ion Ratio Lower Upper
248 100
250 98.4 77.8 116.8
141 64.3 57.7 86.5



#68
Hexachlorobenzene
Concen: 48.159 ng
RT: 16.092 min Scan# 2245
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:284 Resp: 838860
Ion Ratio Lower Upper
284 100
142 30.5 29.4 44.0
249 30.6 25.1 37.7





#69

Atrazine

Concen: 59.771 ng

RT: 16.286 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

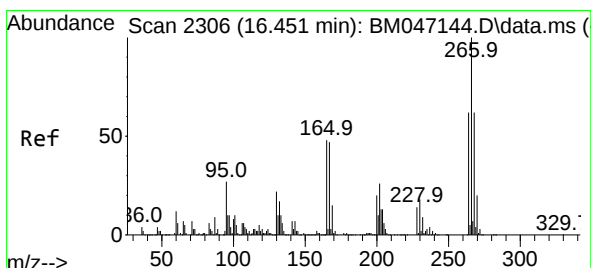
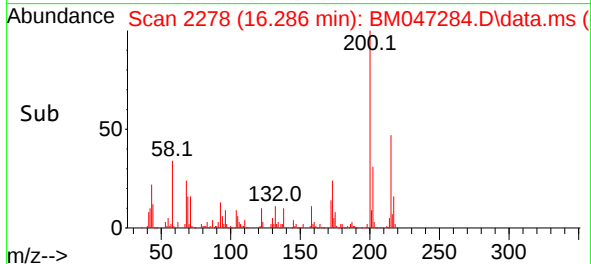
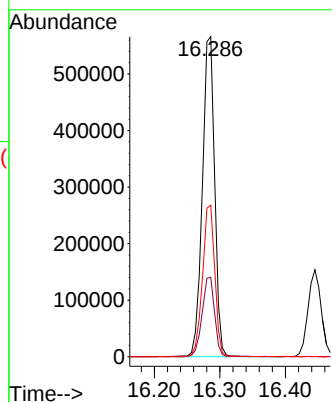
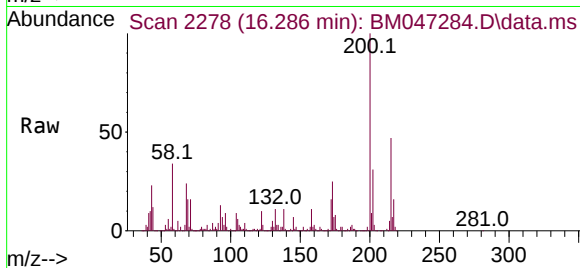
Tgt Ion:200 Resp: 739412

Ion Ratio Lower Upper

200 100

173 24.8 6.1 46.1

215 47.4 26.8 66.8



#70

Pentachlorophenol

Concen: 90.089 ng

RT: 16.445 min Scan# 2305

Delta R.T. -0.006 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

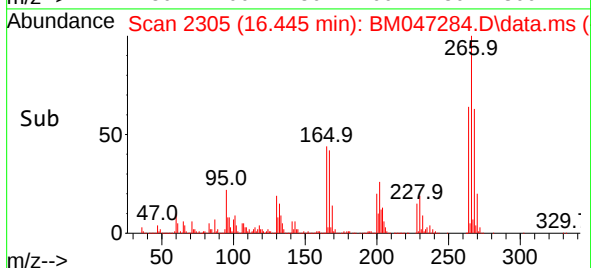
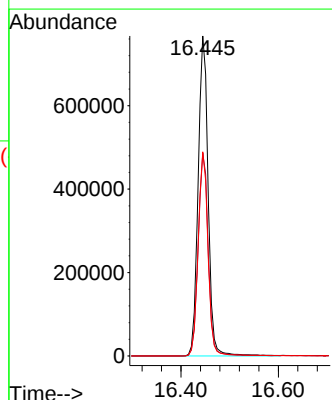
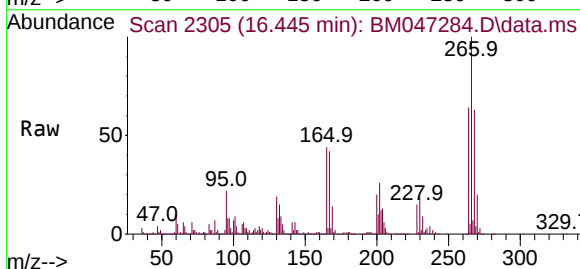
Tgt Ion:266 Resp: 1100011

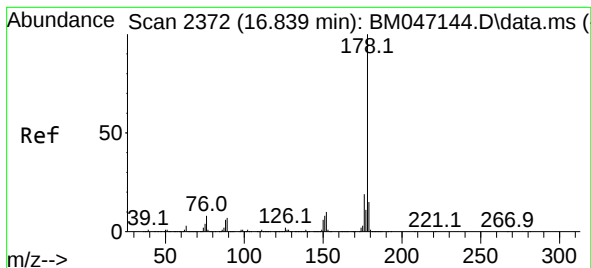
Ion Ratio Lower Upper

266 100

268 63.4 49.8 74.6

264 63.8 49.6 74.4





#71

Phenanthrene

Concen: 50.201 ng

RT: 16.827 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

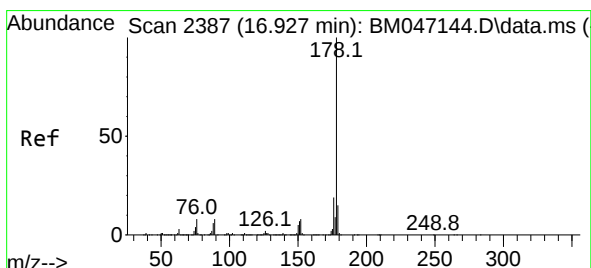
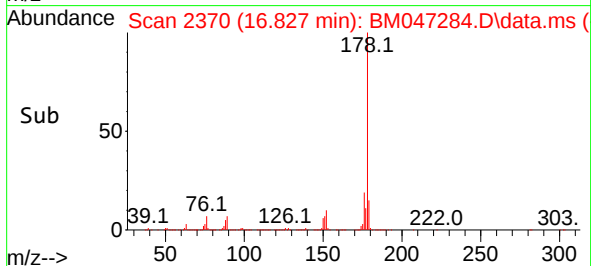
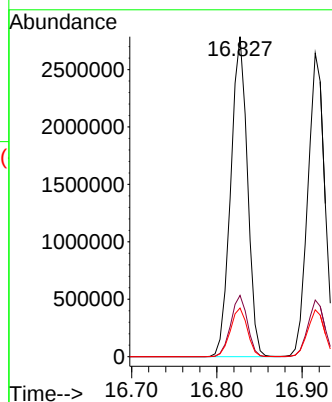
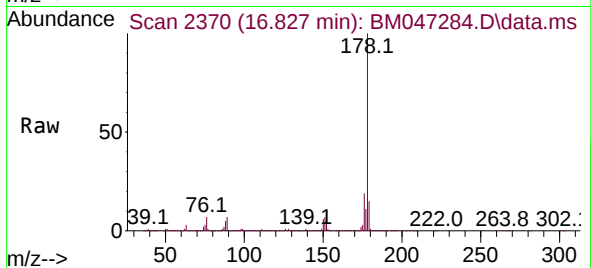
Tgt Ion:178 Resp: 3802588

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.2 12.4 18.6



#72

Anthracene

Concen: 49.132 ng

RT: 16.915 min Scan# 2385

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

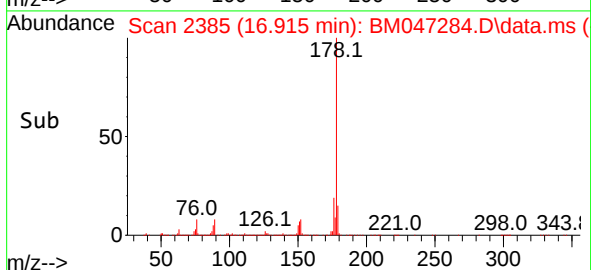
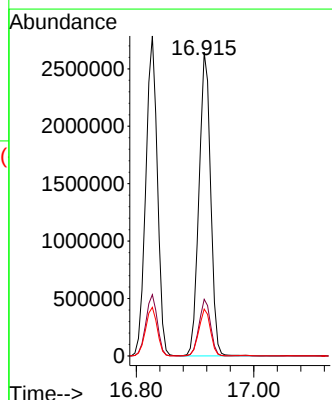
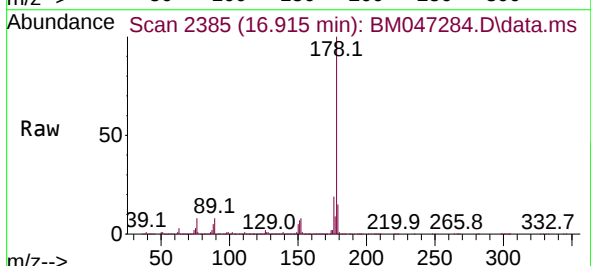
Tgt Ion:178 Resp: 3621170

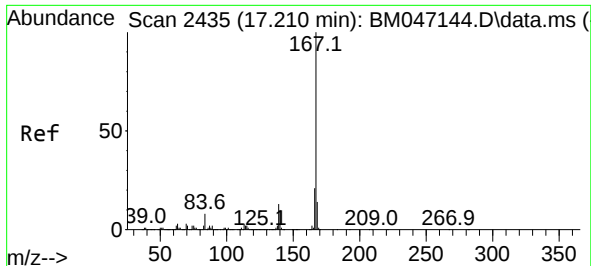
Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

179 15.4 12.4 18.6

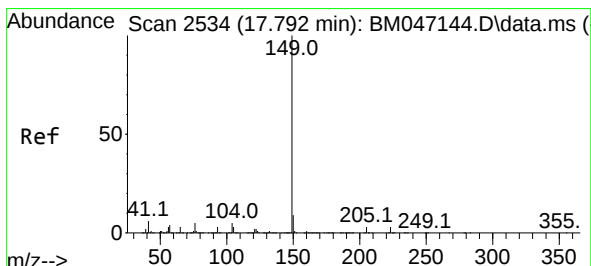
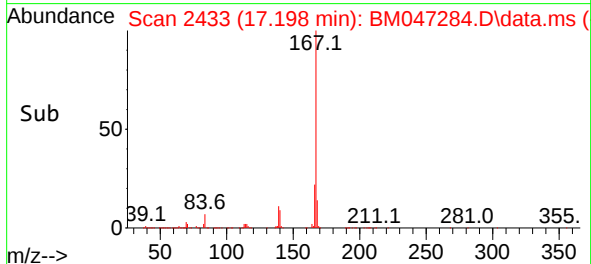
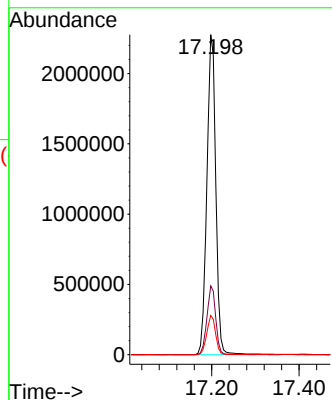
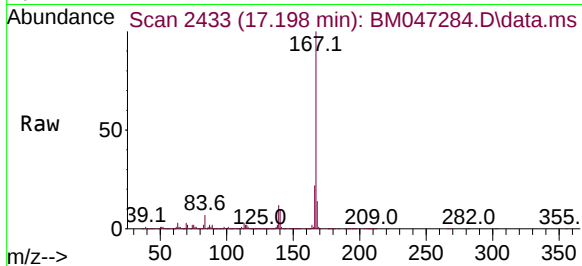




#73
 Carbazole
 Concen: 42.875 ng
 RT: 17.198 min Scan# 24
 Delta R.T. -0.012 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

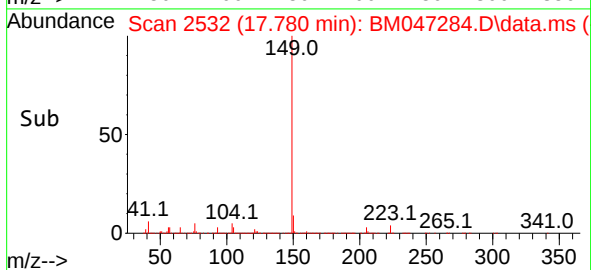
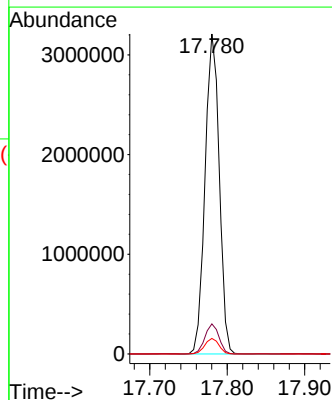
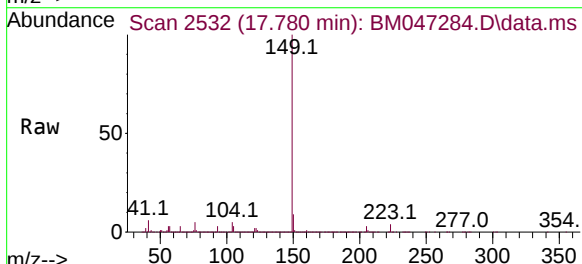
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

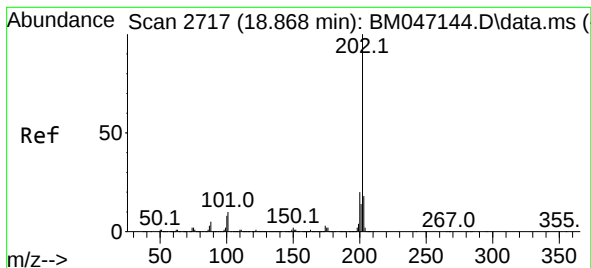
Tgt Ion:167 Resp: 3226492
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.1 25.7
 139 12.2 10.0 15.0



#74
 Di-n-butylphthalate
 Concen: 46.519 ng
 RT: 17.780 min Scan# 2532
 Delta R.T. -0.012 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

Tgt Ion:149 Resp: 4073280
 Ion Ratio Lower Upper
 149 100
 150 9.4 7.5 11.3
 104 4.9 4.1 6.1





#75

Fluoranthene

Concen: 48.884 ng

RT: 18.862 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

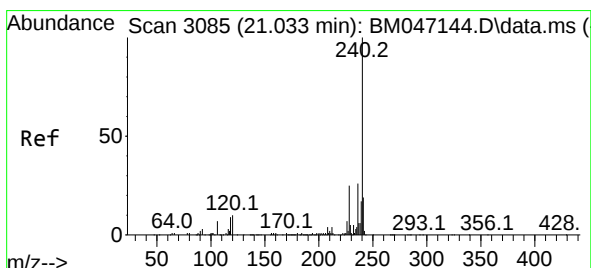
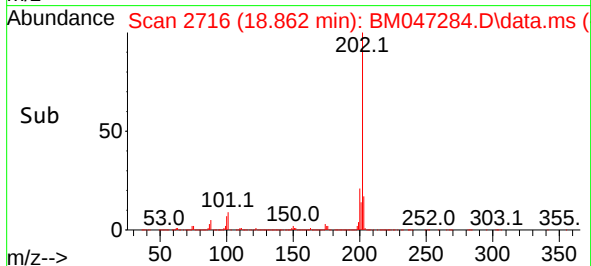
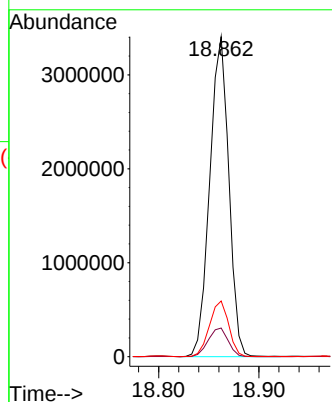
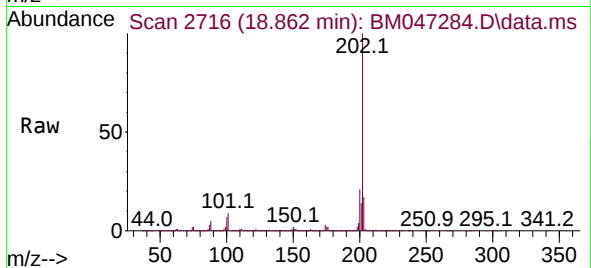
Tgt Ion:202 Resp: 4503826

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: BM047284.D

Acq: 21 Aug 2024 00:13

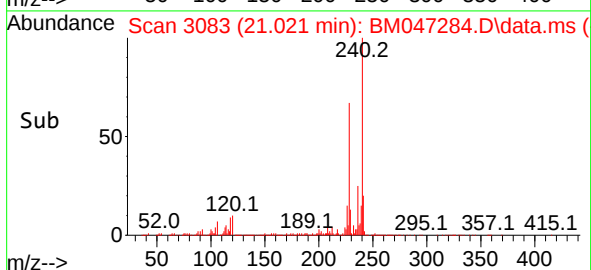
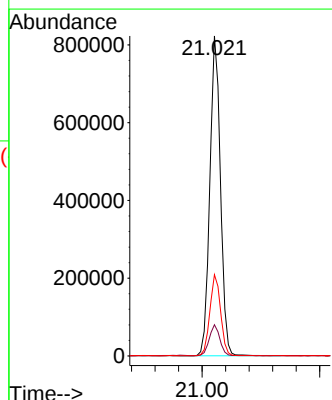
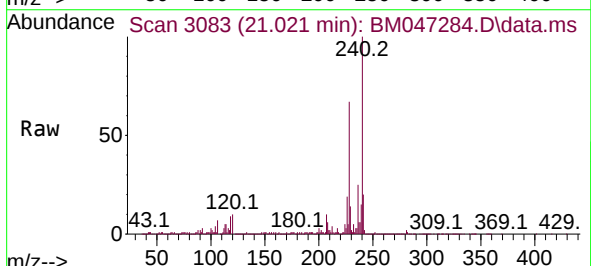
Tgt Ion:240 Resp: 1028005

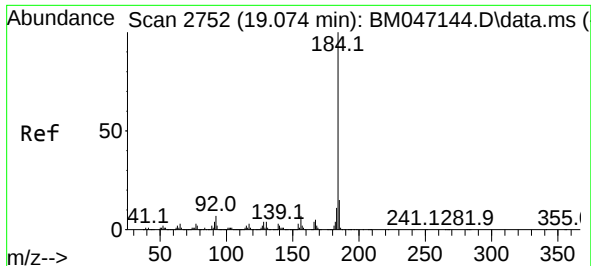
Ion Ratio Lower Upper

240 100

120 9.7 8.2 12.2

236 25.4 20.6 30.8

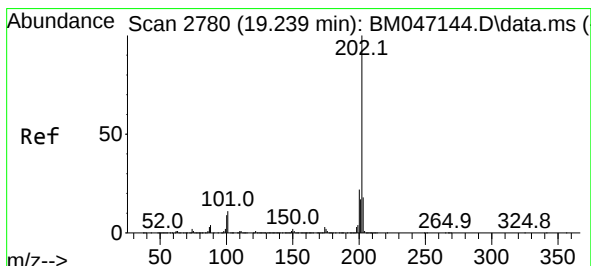
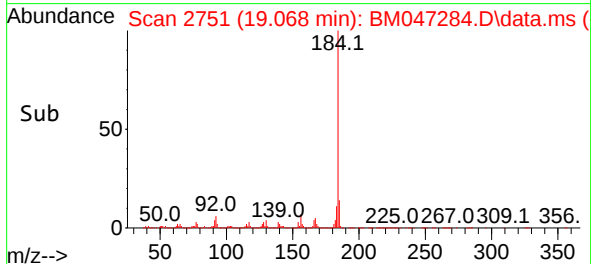
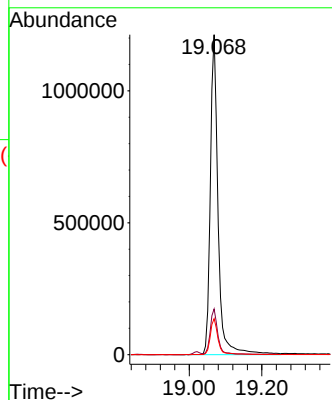
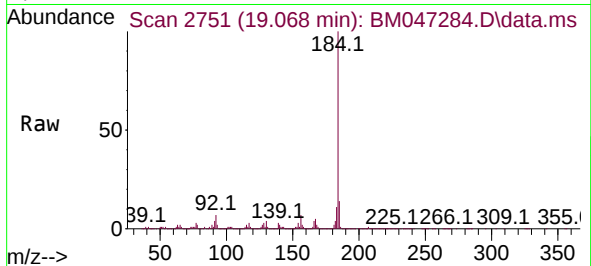




#77
Benzidine
Concen: 103.249 ng
RT: 19.068 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

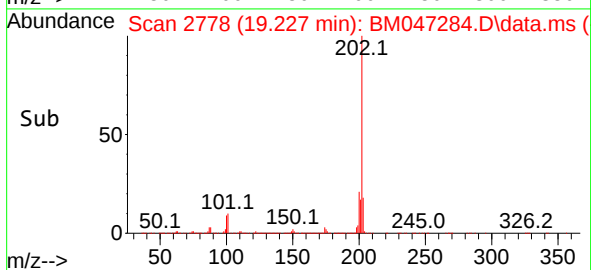
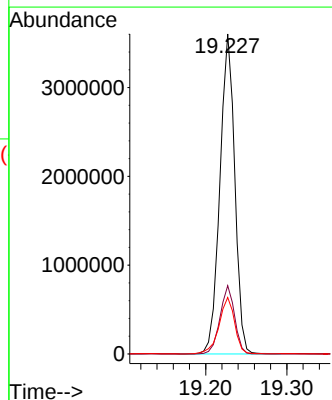
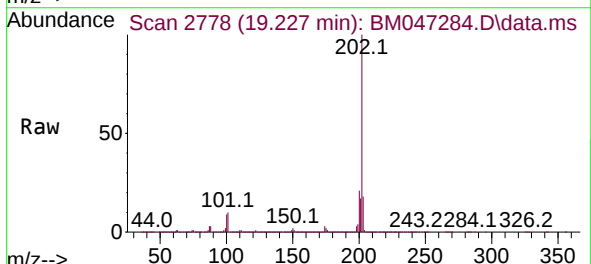
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

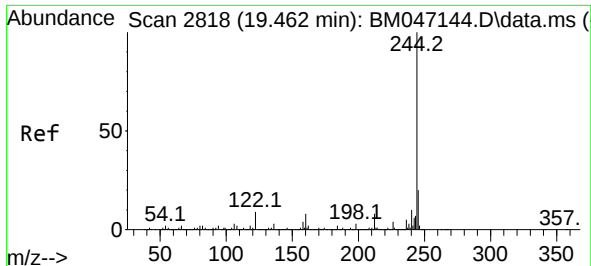
Tgt Ion:184 Resp: 1799985
Ion Ratio Lower Upper
184 100
185 14.3 11.8 17.6
183 11.2 9.0 13.6



#78
Pyrene
Concen: 62.549 ng
RT: 19.227 min Scan# 2778
Delta R.T. -0.012 min
Lab File: BM047284.D
Acq: 21 Aug 2024 00:13

Tgt Ion:202 Resp: 4591259
Ion Ratio Lower Upper
202 100
200 21.3 17.2 25.8
203 17.7 14.2 21.2

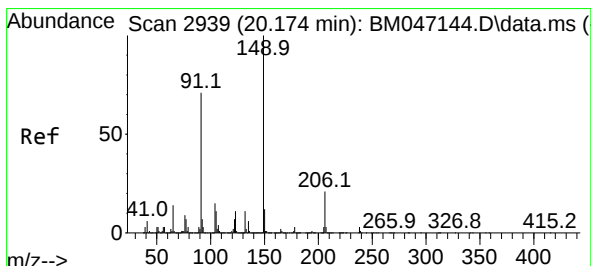
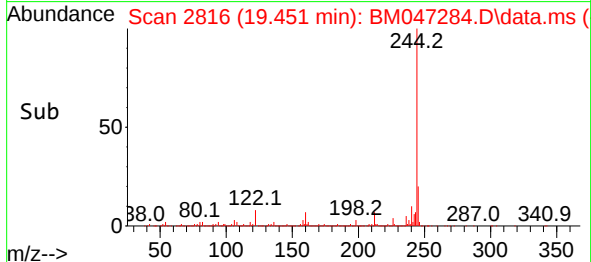
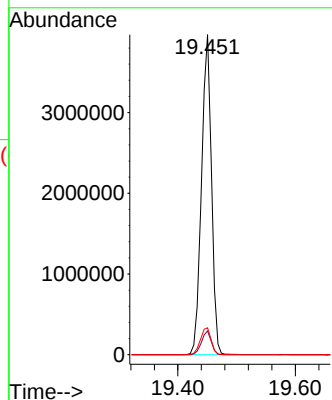
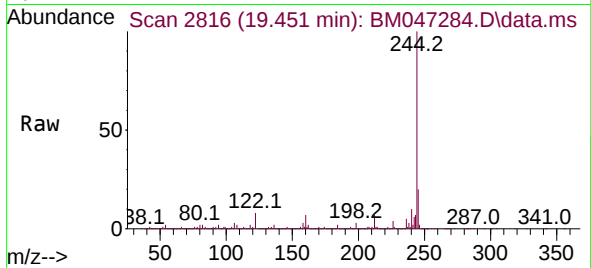




#79
 Terphenyl-d14
 Concen: 97.495 ng
 RT: 19.451 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

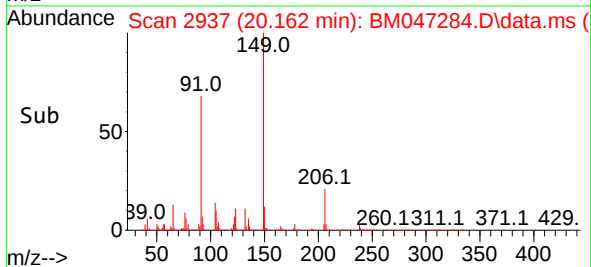
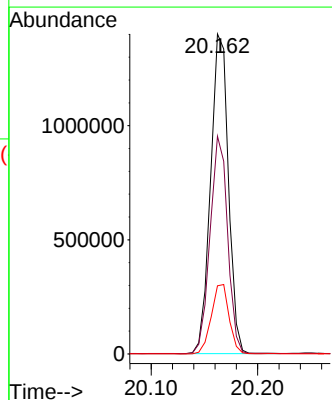
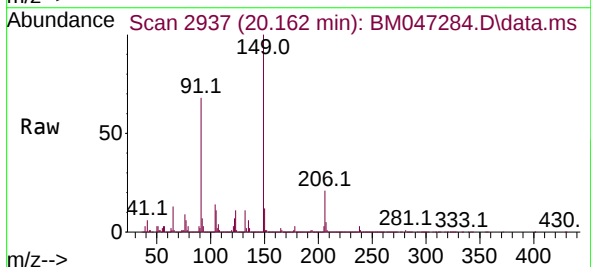
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

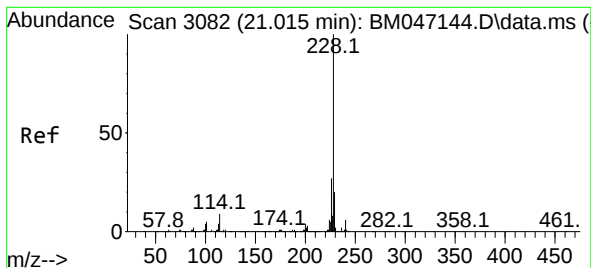
Tgt Ion:244 Resp: 4677394
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.2 9.4
 122 8.4 7.1 10.7



#80
 Butylbenzylphthalate
 Concen: 54.488 ng
 RT: 20.162 min Scan# 2937
 Delta R.T. -0.012 min
 Lab File: BM047284.D
 Acq: 21 Aug 2024 00:13

Tgt Ion:149 Resp: 1632217
 Ion Ratio Lower Upper
 149 100
 91 68.1 57.0 85.4
 206 21.3 16.4 24.6





#81

Benzo(a)anthracene

Concen: 51.621 ng

RT: 21.003 min Scan# 3080

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

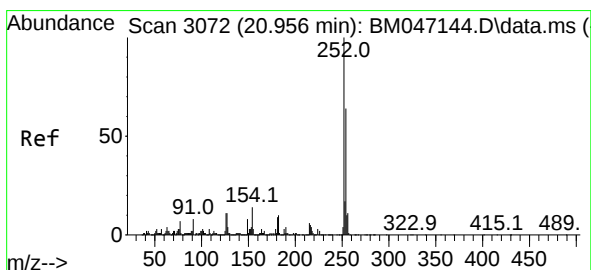
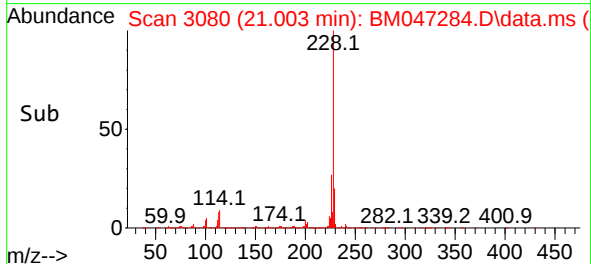
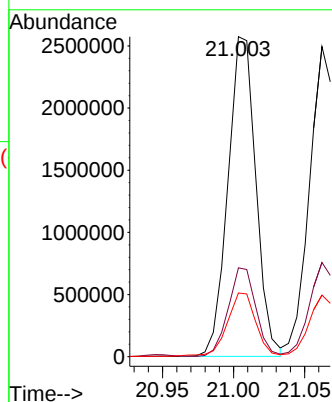
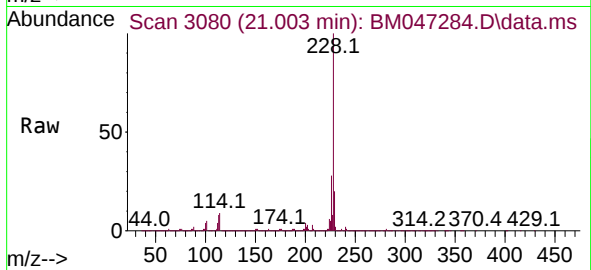
Tgt Ion:228 Resp: 3522871

Ion Ratio Lower Upper

228 100

226 27.8 21.8 32.6

229 19.9 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 53.092 ng

RT: 20.945 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

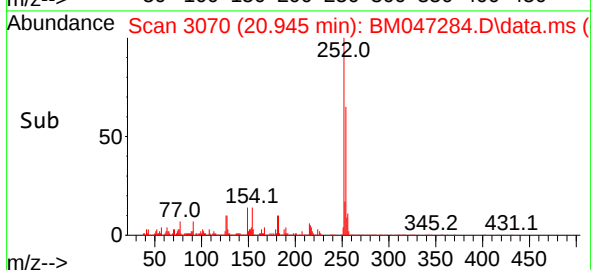
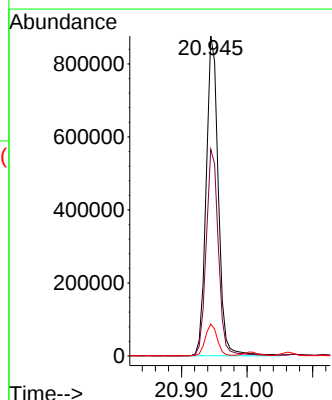
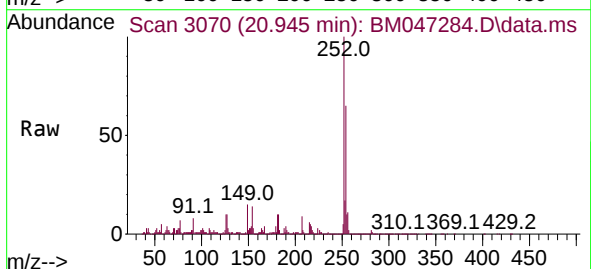
Tgt Ion:252 Resp: 1133647

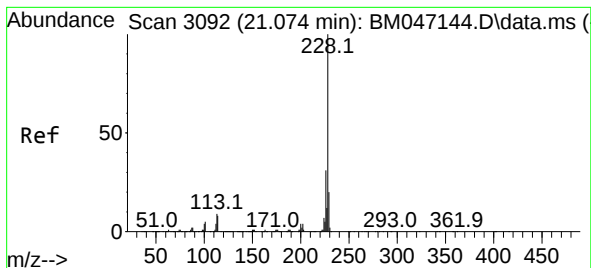
Ion Ratio Lower Upper

252 100

254 64.6 51.0 76.6

126 10.0 8.5 12.7





#83

Chrysene

Concen: 50.910 ng

RT: 21.062 min Scan# 3092

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

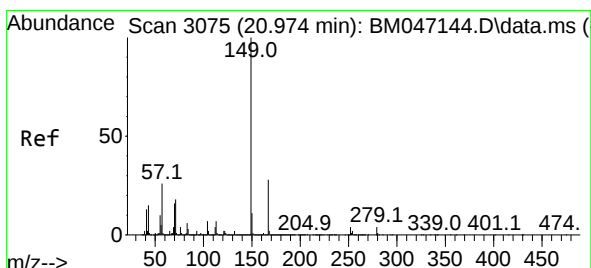
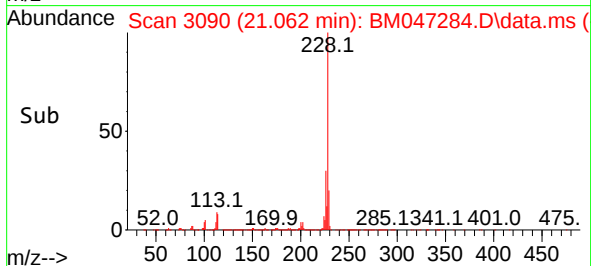
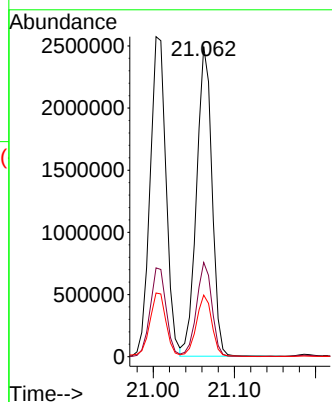
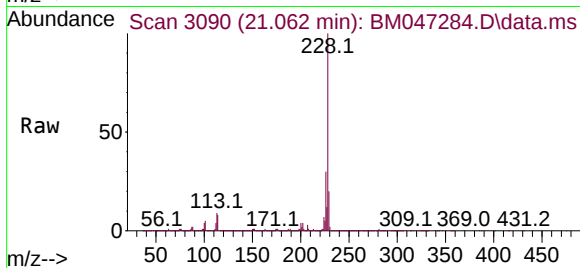
Tgt Ion:228 Resp: 3296384

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 19.9 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 52.620 ng

RT: 20.962 min Scan# 3073

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

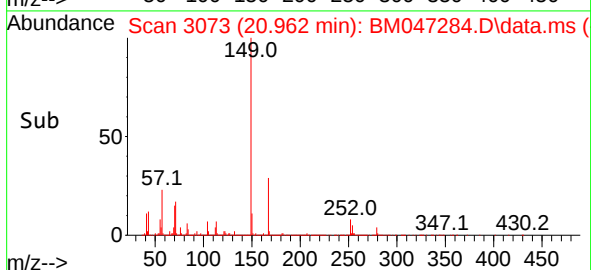
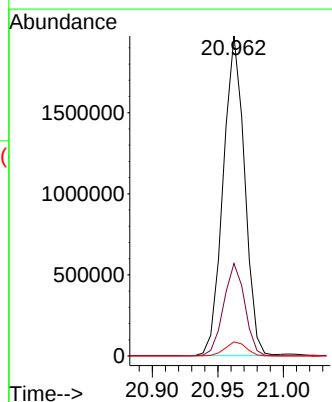
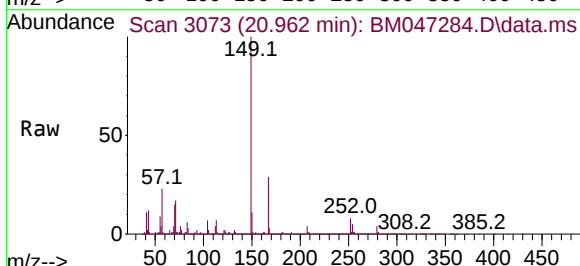
Tgt Ion:149 Resp: 2235419

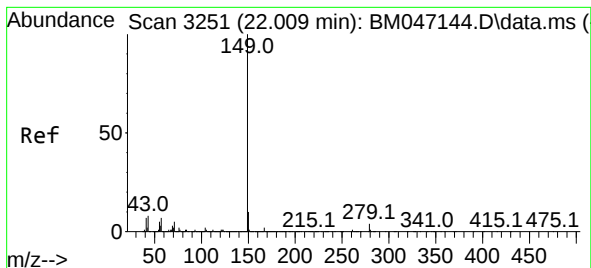
Ion Ratio Lower Upper

149 100

167 28.9 22.2 33.2

279 4.4 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 51.478 ng

RT: 21.992 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

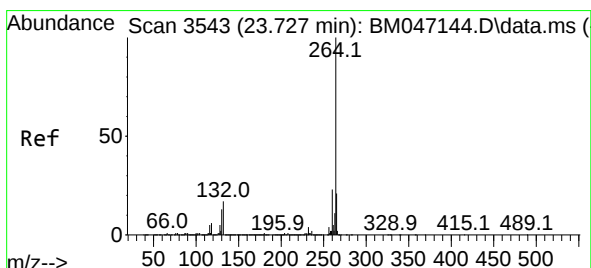
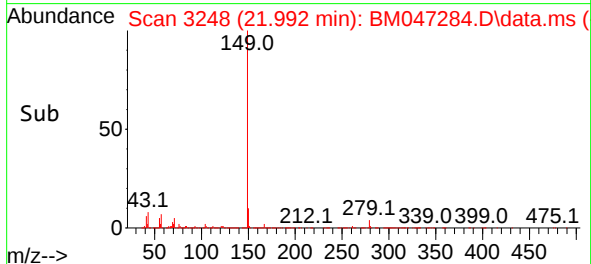
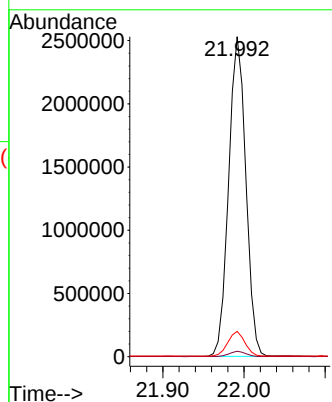
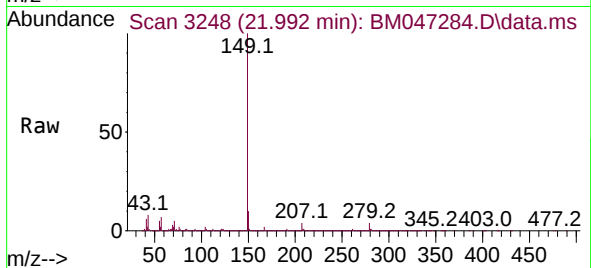
Tgt Ion:149 Resp: 3717068

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: BM047284.D

Acq: 21 Aug 2024 00:13

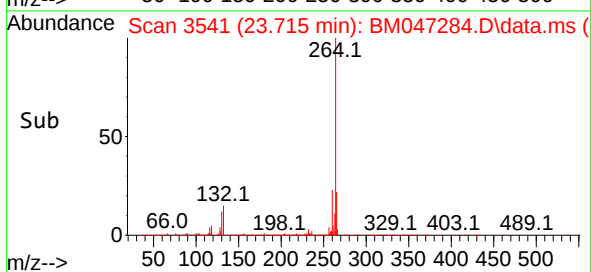
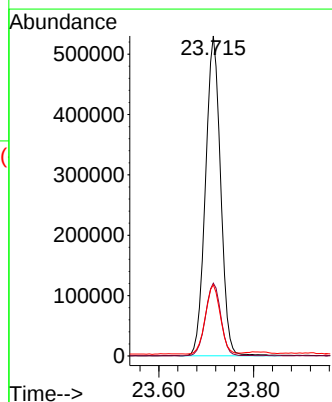
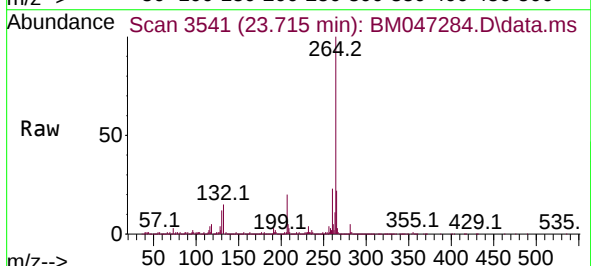
Tgt Ion:264 Resp: 1173853

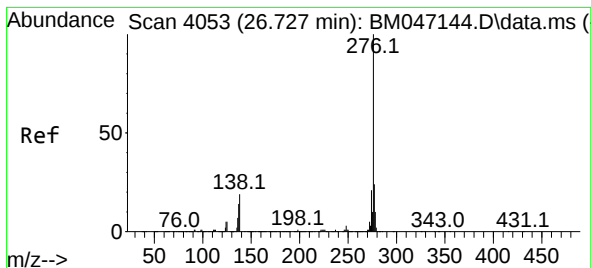
Ion Ratio Lower Upper

264 100

260 22.8 18.5 27.7

265 22.2 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 52.080 ng

RT: 26.715 min Scan# 4051

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

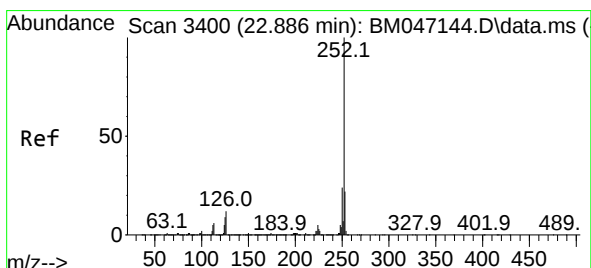
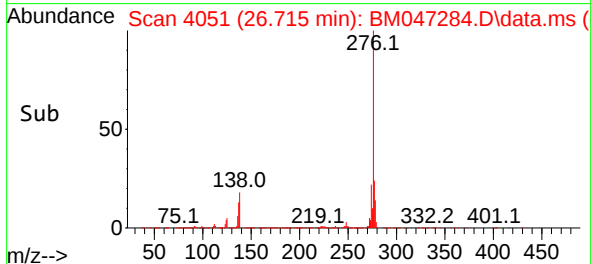
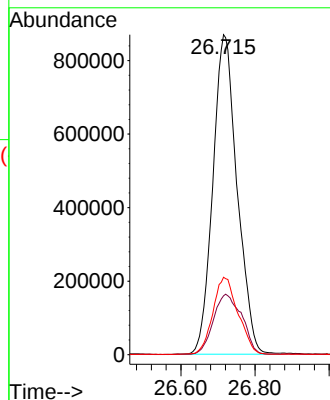
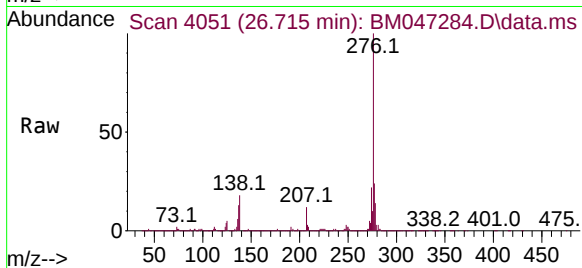
Tgt Ion:276 Resp: 3951609

Ion Ratio Lower Upper

276 100

138 21.9 19.4 29.0

277 25.1 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 49.537 ng

RT: 22.874 min Scan# 3398

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

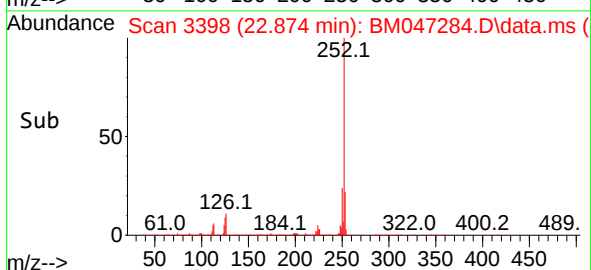
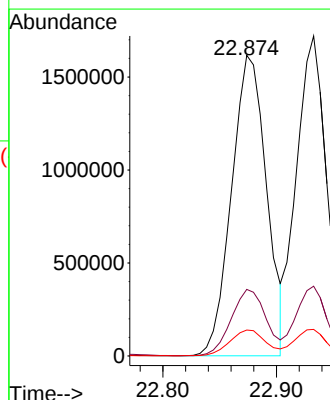
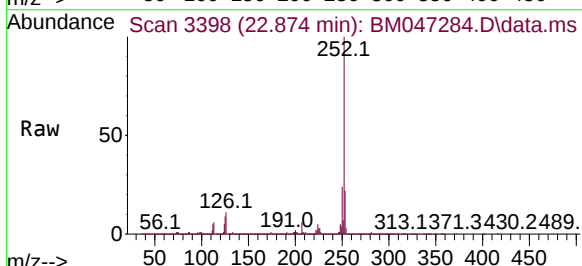
Tgt Ion:252 Resp: 3453258

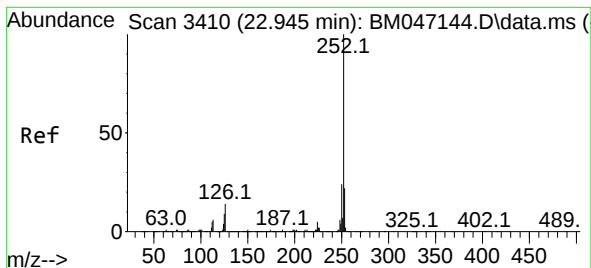
Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.6

125 8.6 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 48.179 ng

RT: 22.933 min Scan# 3410

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

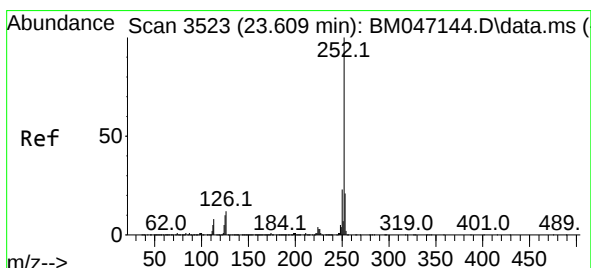
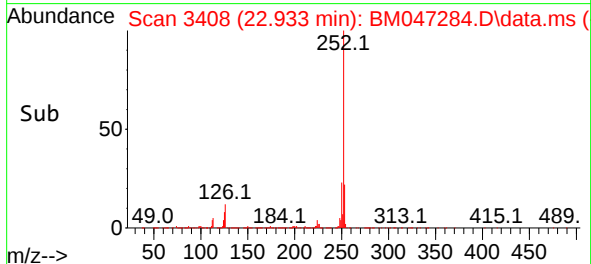
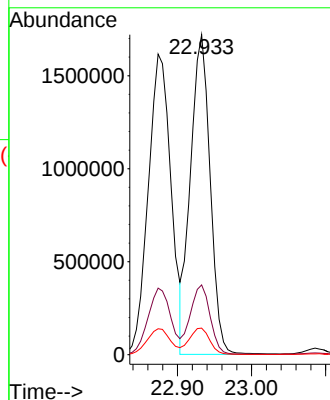
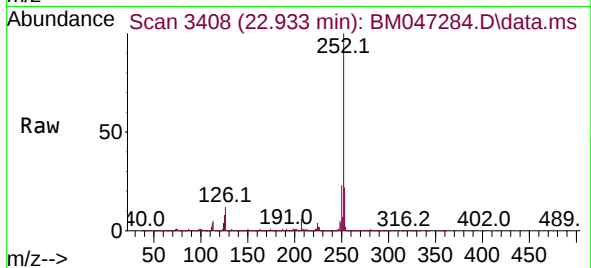
Tgt Ion:252 Resp: 3172313

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 8.3 7.4 11.2



#90

Benzo(a)pyrene

Concen: 53.540 ng

RT: 23.591 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

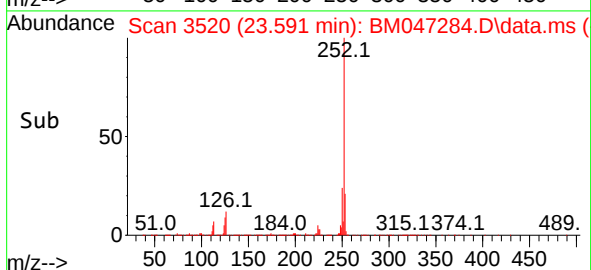
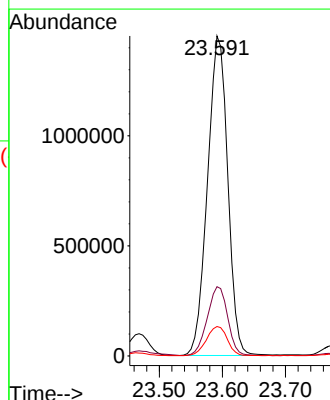
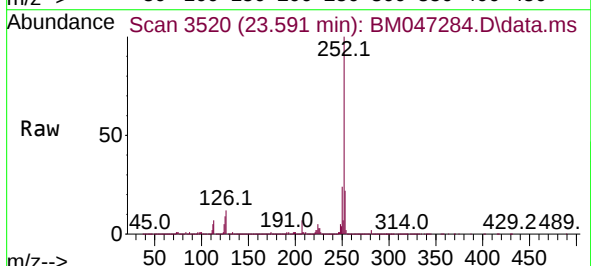
Tgt Ion:252 Resp: 3233179

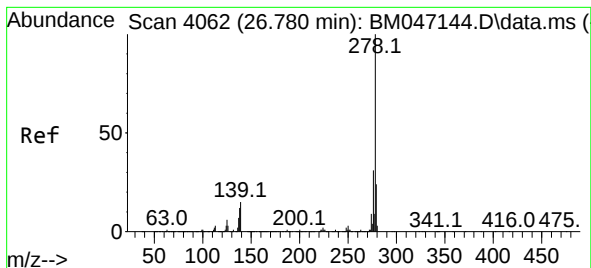
Ion Ratio Lower Upper

252 100

253 21.7 17.1 25.7

125 9.2 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 49.007 ng

RT: 26.762 min Scan# 4062

Delta R.T. -0.018 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

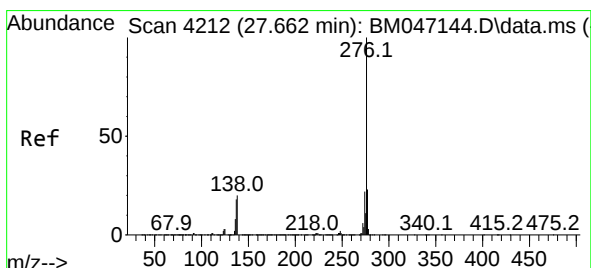
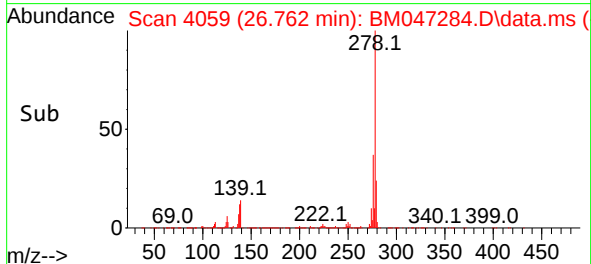
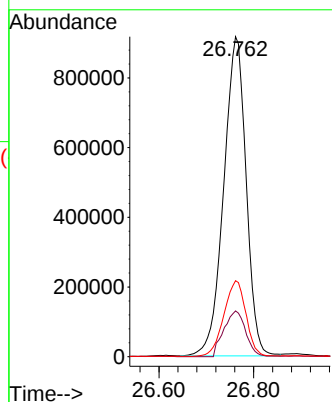
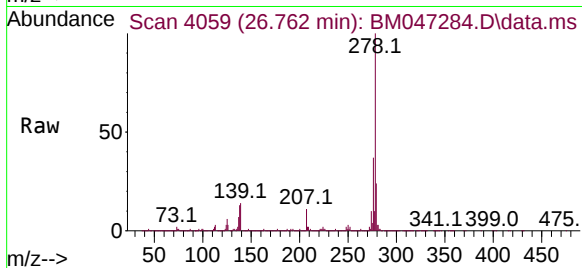
Tgt Ion:278 Resp: 3009194

Ion Ratio Lower Upper

278 100

139 14.3 12.0 18.0

279 23.8 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 49.482 ng

RT: 27.650 min Scan# 4210

Delta R.T. -0.012 min

Lab File: BM047284.D

Acq: 21 Aug 2024 00:13

Tgt Ion:276 Resp: 3154582

Ion Ratio Lower Upper

276 100

277 23.7 18.8 28.2

138 18.7 16.2 24.4

