

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041923\
 Data File : VN077374.D
 Acq On : 19 Apr 2023 14:45
 Operator : JC\MD
 Sample : PB152199ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152199ZHE#02

Quant Time: Apr 20 04:25:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

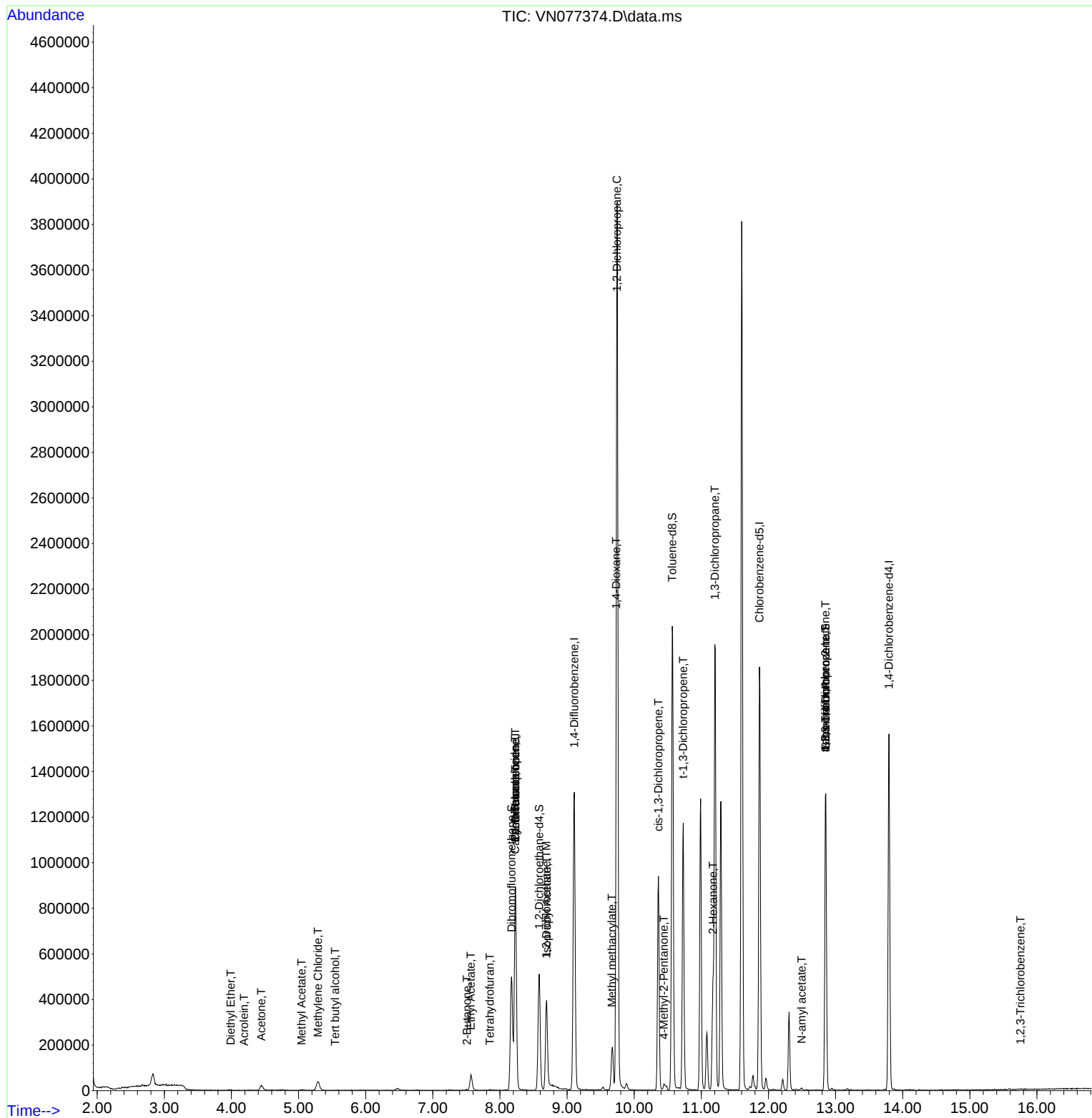
Internal Standards						
1) Pentafluorobenzene	8.231	168	640443	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1201785	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1089601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	410929	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	403866	46.139	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.280%		
35) Dibromofluoromethane	8.172	113	365922	47.563	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.120%		
50) Toluene-d8	10.566	98	1470885	47.492	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.980%		
62) 4-Bromofluorobenzene	12.848	95	472045	45.827	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.660%		
Target Compounds						Qvalue
8) Diethyl Ether	3.990	74	1240	0.248	ug/l	67
11) Tert butyl alcohol	5.543	59	454	0.254	ug/l #	72
13) Acrolein	4.190	56	408	0.241	ug/l #	42
16) Acetone	4.443	43	39564	12.259	ug/l	91
18) Methyl Acetate	5.043	43	6508	0.529	ug/l	90
20) Methylene Chloride	5.290	84	35141	3.855	ug/l	95
25) 2-Butanone	7.507	43	4555	0.870	ug/l #	69
29) Tetrahydrofuran	7.849	42	1874	0.557	ug/l #	72
31) Cyclohexane	8.231	56	15034	1.105	ug/l #	48
36) 1,1-Dichloropropene	8.231	75	53250	4.680	ug/l #	51
37) Ethyl Acetate	7.566	43	90888	8.928	ug/l #	91
38) Carbon Tetrachloride	8.225	117	68213	5.851	ug/l #	15
42) 1,2-Dichloroethane	8.690	62	3076	0.282	ug/l #	73
43) Isopropyl Acetate	8.696	43	443032	23.584	ug/l #	91
45) 1,2-Dichloropropane	9.743	63	6086	0.722	ug/l #	41
48) Methyl methacrylate	9.666	41	9967	1.244	ug/l #	37
49) 1,4-Dioxane	9.731	88	1127	5.801	ug/l #	1
51) 4-Methyl-2-Pentanone	10.443	43	16125	1.485	ug/l	95
53) t-1,3-Dichloropropene	10.731	75	3360	0.244	ug/l #	64
54) cis-1,3-Dichloropropene	10.360	75	198882	13.546	ug/l #	60
57) 1,3-Dichloropropane	11.201	76	25270	1.677	ug/l #	43
59) 2-Hexanone	11.172	43	346128	42.787	ug/l #	20
71) Bromoform	12.854	173	2157	0.338	ug/l #	1
74) N-amyl acetate	12.495	43	3610	0.239	ug/l #	48
76) 1,2,3-Trichloropropane	12.848	75	251685	25.721	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	251685	57.880	ug/l #	13
96) 1,2,3-Trichlorobenzene	15.754	180	1216	0.234	ug/l #	56

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

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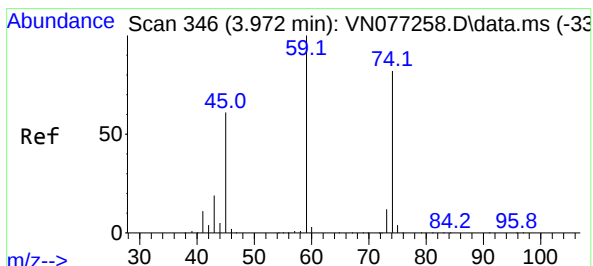
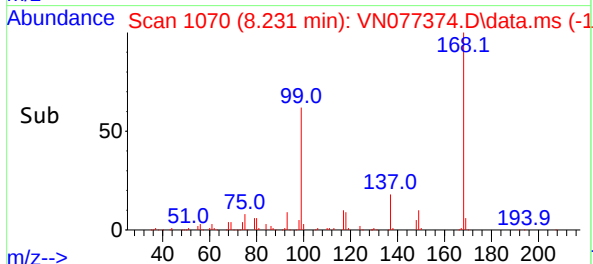
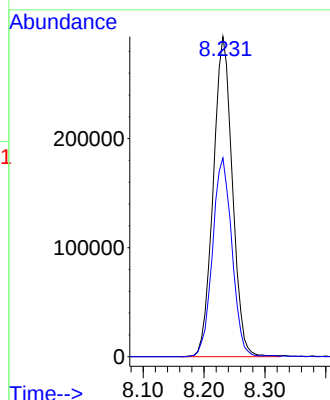
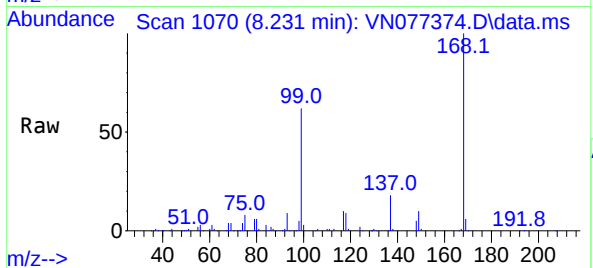




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

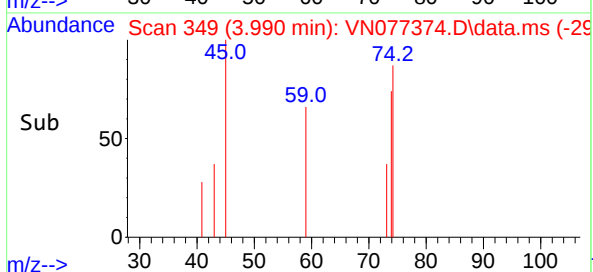
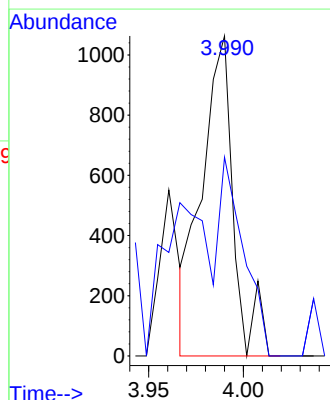
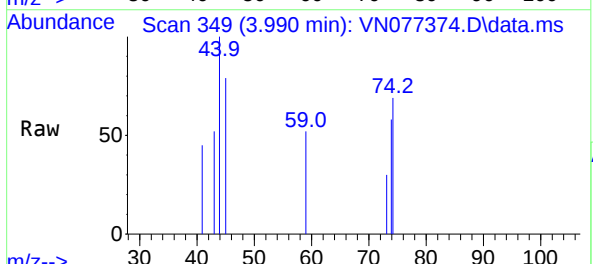
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

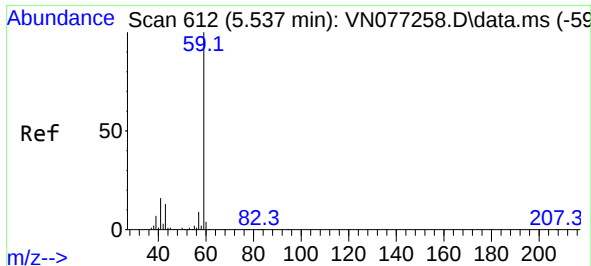
Tgt Ion:168 Resp: 640443
Ion Ratio Lower Upper
168 100
99 62.1 50.6 75.8



#8
Diethyl Ether
Concen: 0.248 ug/l
RT: 3.990 min Scan# 349
Delta R.T. 0.018 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 74 Resp: 1240
Ion Ratio Lower Upper
74 100
45 47.1 37.8 113.4

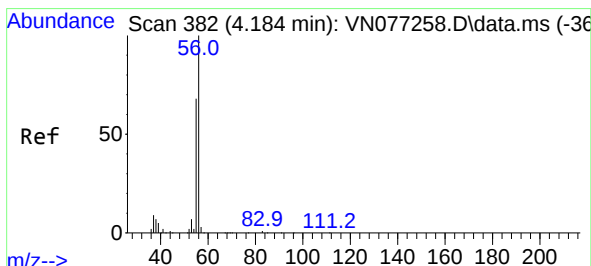
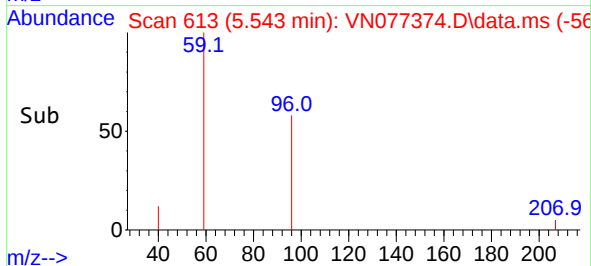
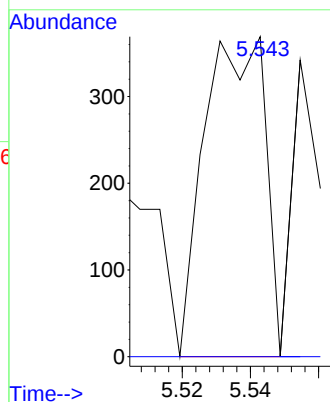
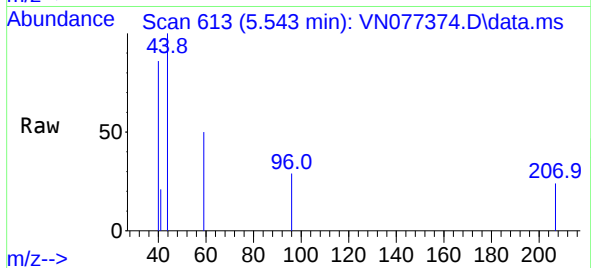




#11
Tert butyl alcohol
Concen: 0.254 ug/l
RT: 5.543 min Scan# 612
Delta R.T. 0.006 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

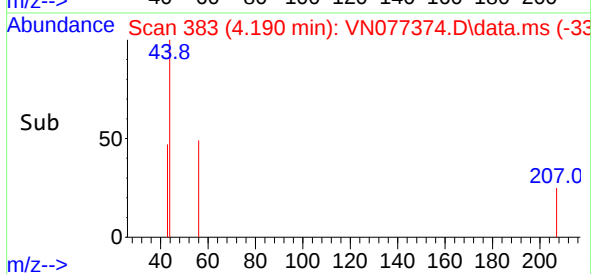
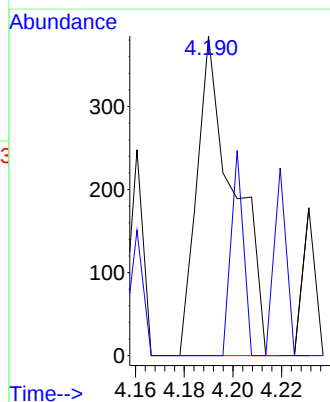
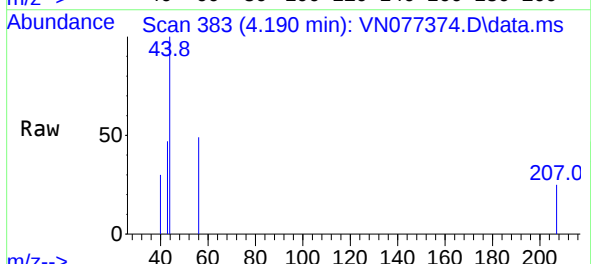
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

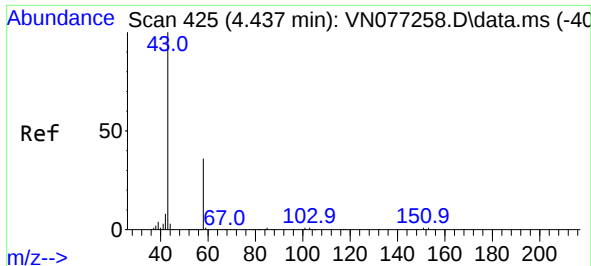
Tgt Ion: 59 Resp: 454
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.241 ug/l
RT: 4.190 min Scan# 383
Delta R.T. 0.006 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 56 Resp: 408
Ion Ratio Lower Upper
56 100
55 21.3 54.2 81.2#

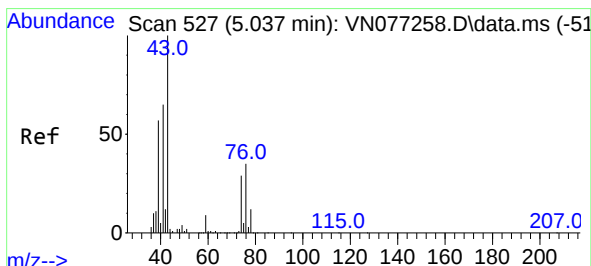
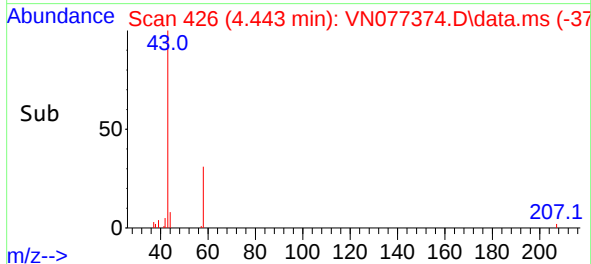
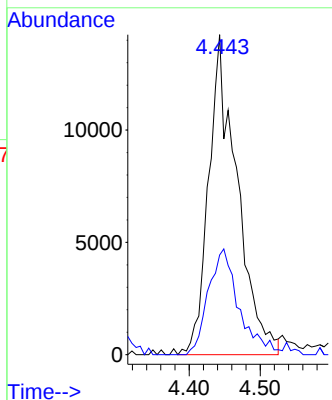
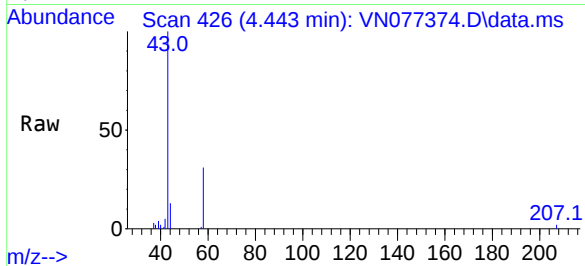




#16
Acetone
Concen: 12.259 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

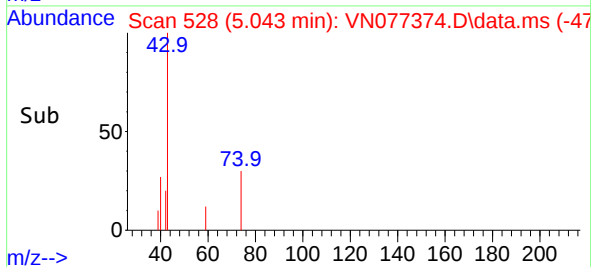
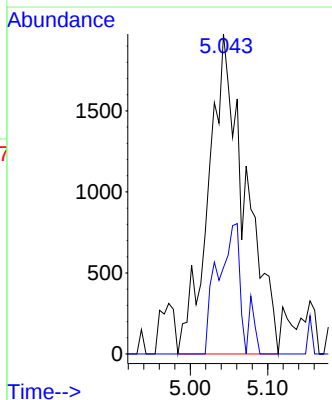
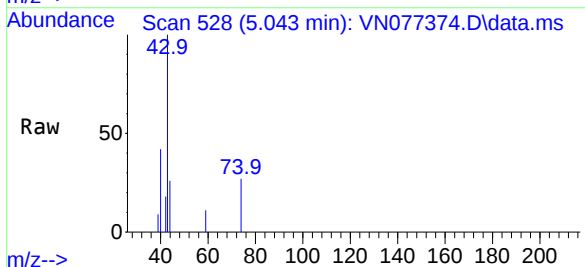
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

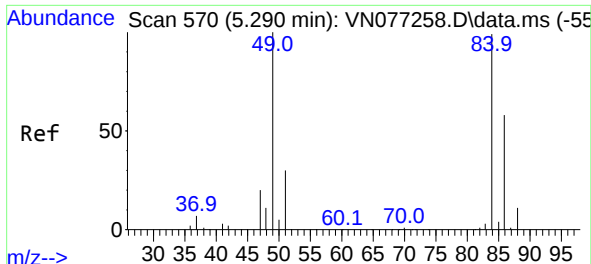
Tgt Ion: 43 Resp: 39564
Ion Ratio Lower Upper
43 100
58 31.1 29.0 43.6



#18
Methyl Acetate
Concen: 0.529 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

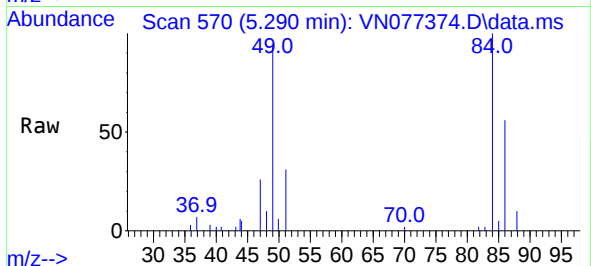
Tgt Ion: 43 Resp: 6508
Ion Ratio Lower Upper
43 100
74 24.0 23.4 35.2





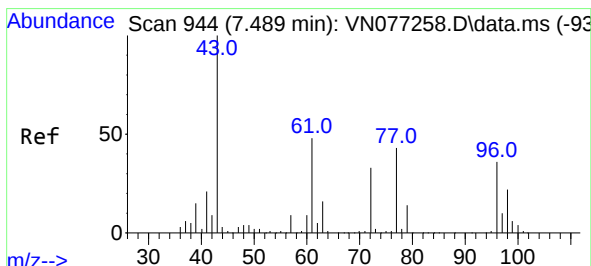
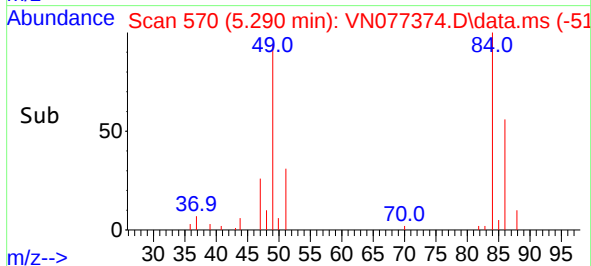
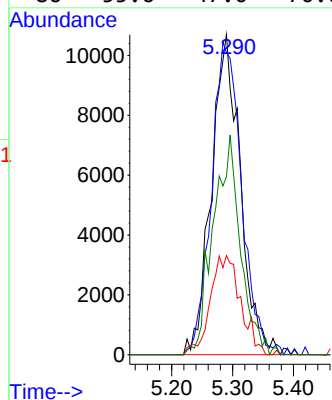
#20
Methylene Chloride
Concen: 3.855 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02



Tgt Ion: 84 Resp: 35141

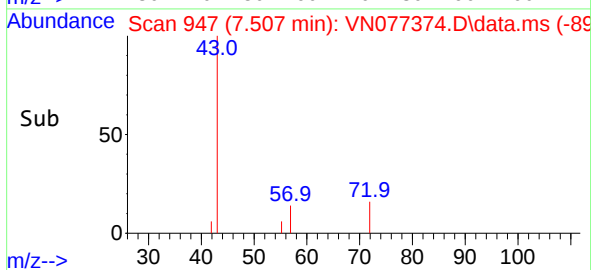
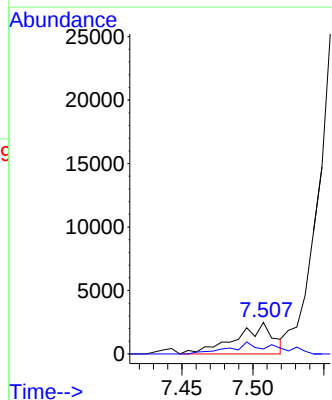
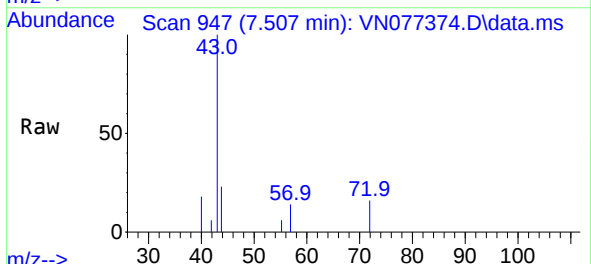
Ion	Ratio	Lower	Upper
84	100		
49	94.4	80.6	121.0
51	30.9	24.4	36.6
86	55.6	47.0	70.6

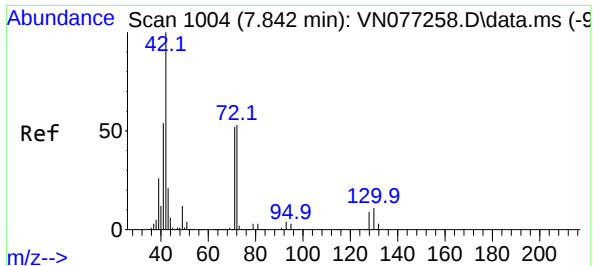


#25
2-Butanone
Concen: 0.870 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.018 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 43 Resp: 4555

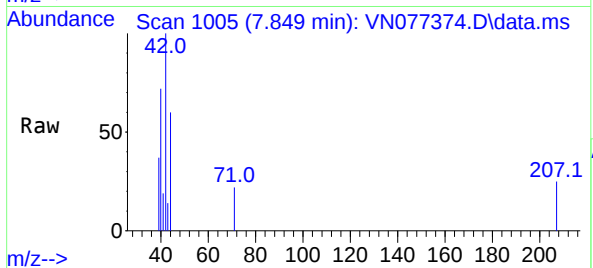
Ion	Ratio	Lower	Upper
43	100		
72	15.6	26.6	39.8#



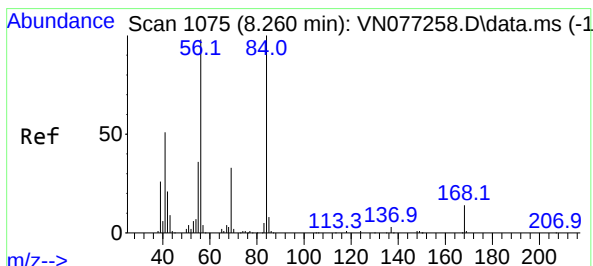
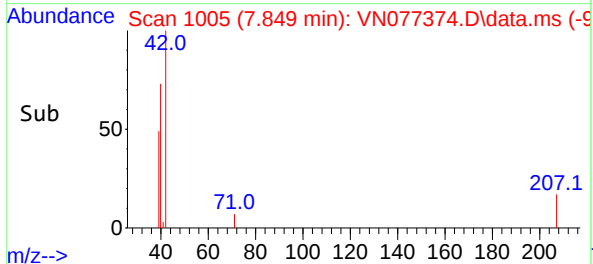
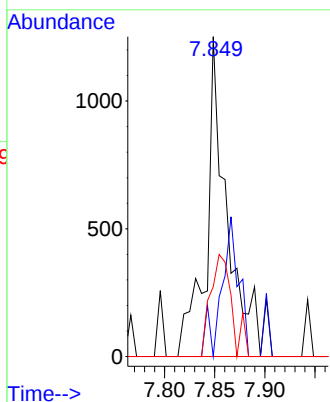


#29
Tetrahydrofuran
Concen: 0.557 ug/l
RT: 7.849 min Scan# 1005
Delta R.T. 0.007 min
Lab File: VN077374.D
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Instrument :
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ClientSampleId :
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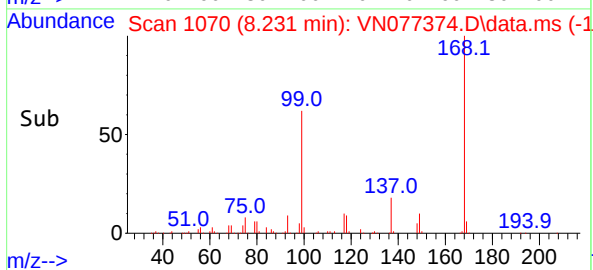
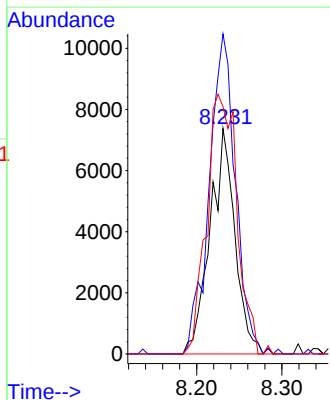
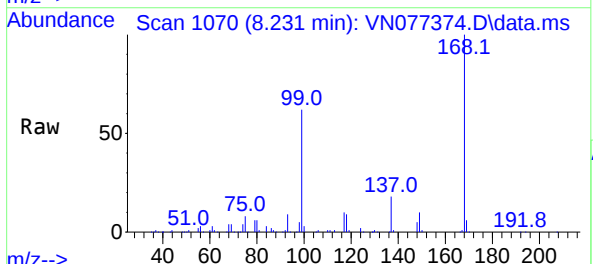


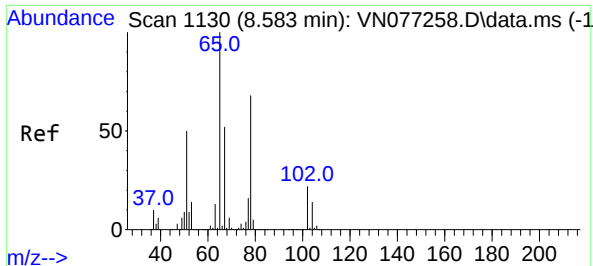
Tgt Ion:	42	Resp:	1874
Ion	Ratio	Lower	Upper
42	100		
72	35.3	44.6	66.8#
71	31.5	41.3	61.9#



#31
Cyclohexane
Concen: 1.105 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion:	56	Resp:	15034
Ion	Ratio	Lower	Upper
56	100		
69	141.9	26.6	40.0#
84	109.7	81.8	122.8

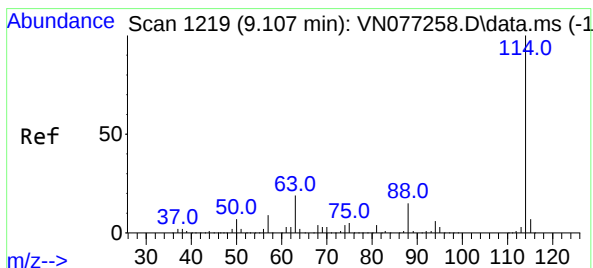
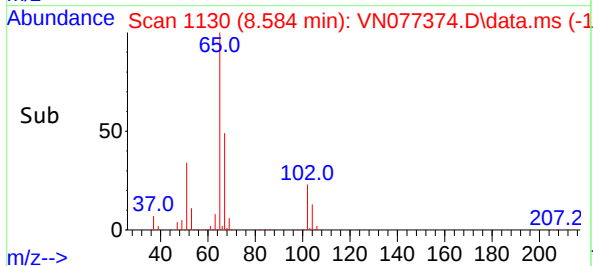
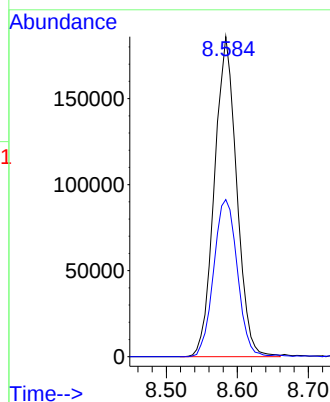
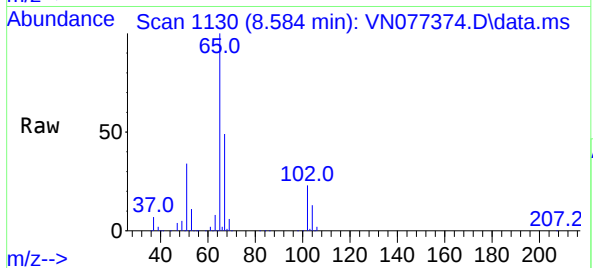




#33
1,2-Dichloroethane-d4
Concen: 46.139 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

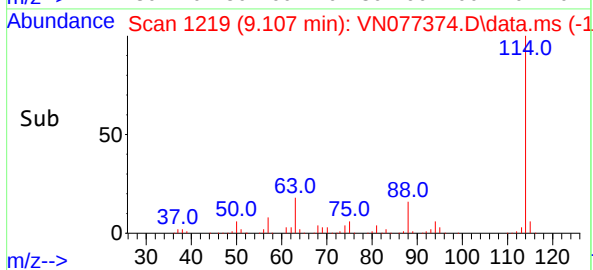
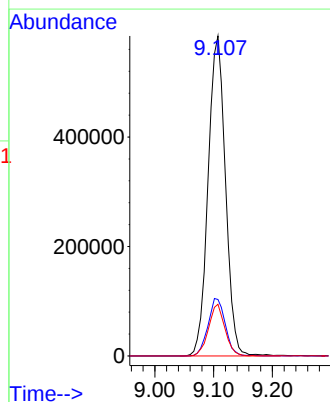
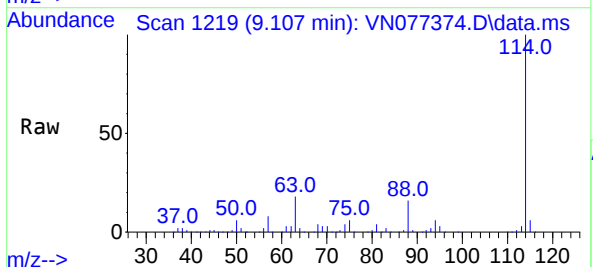
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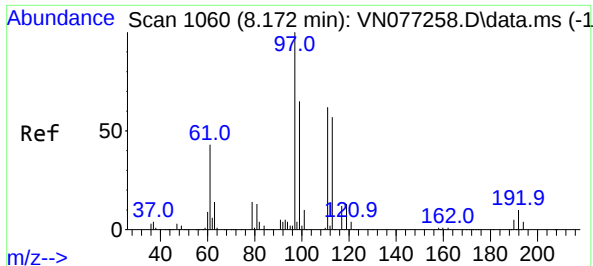
Tgt Ion: 65 Resp: 403866
Ion Ratio Lower Upper
65 100
67 52.2 0.0 108.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 114 Resp: 1201785
Ion Ratio Lower Upper
114 100
63 17.6 0.0 37.8
88 16.2 0.0 29.4

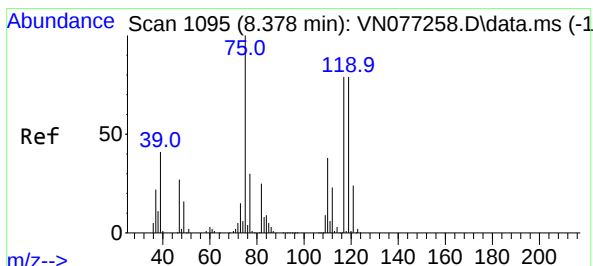
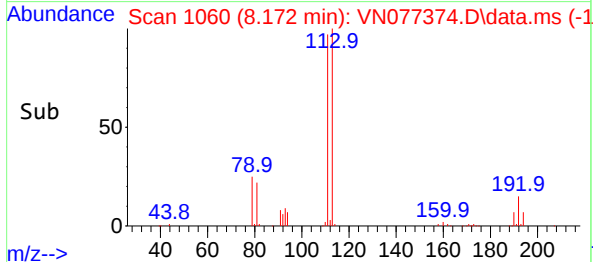
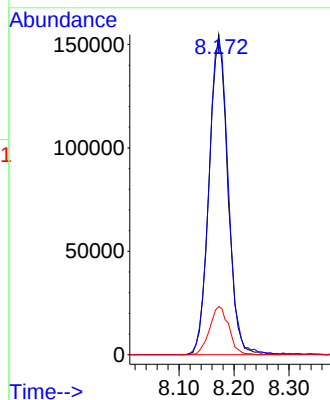
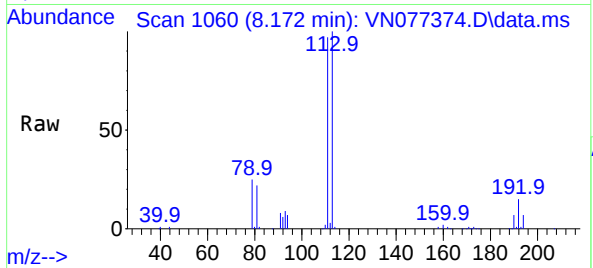




#35
Dibromofluoromethane
Concen: 47.563 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

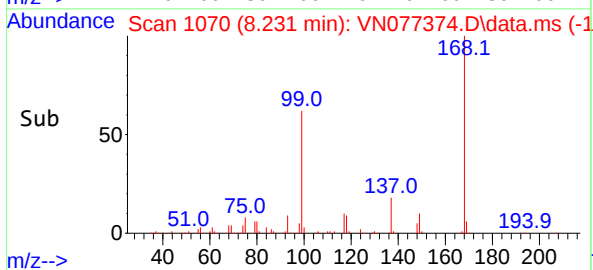
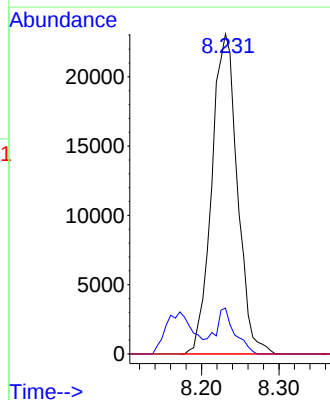
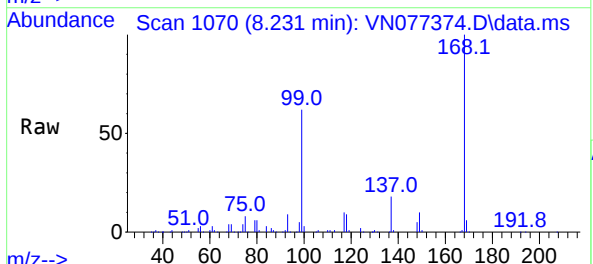
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

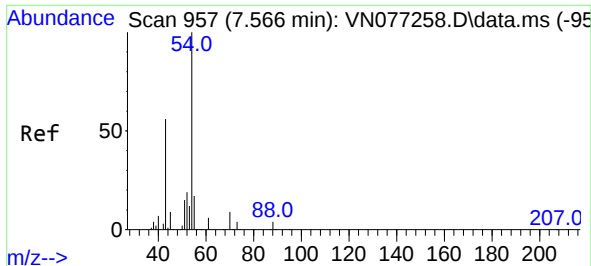
Tgt Ion:113 Resp: 365922
Ion Ratio Lower Upper
113 100
111 101.9 83.4 125.0
192 15.4 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.680 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 75 Resp: 53250
Ion Ratio Lower Upper
75 100
110 10.4 17.8 53.5#
77 0.0 25.0 37.4#

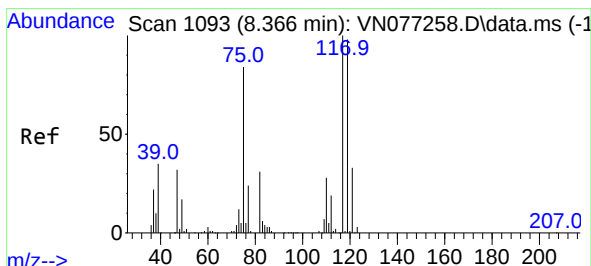
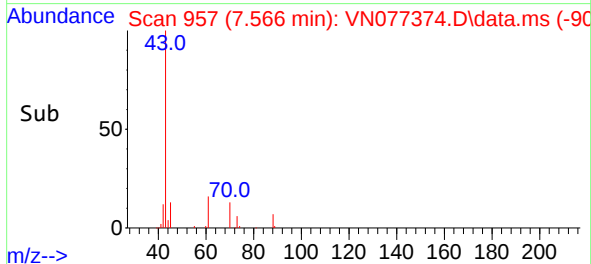
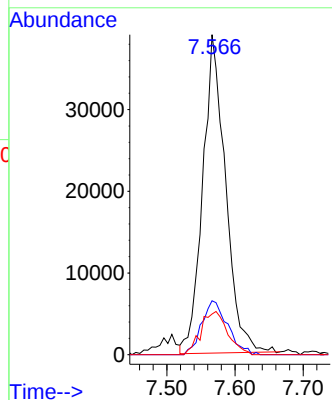
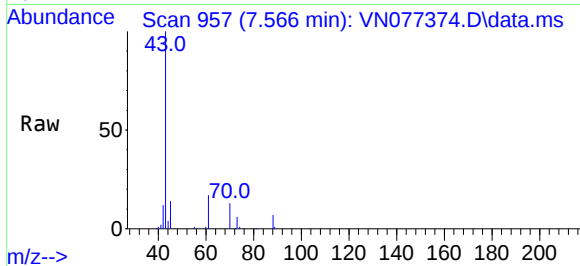




#37
Ethyl Acetate
Concen: 8.928 ug/l
RT: 7.566 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

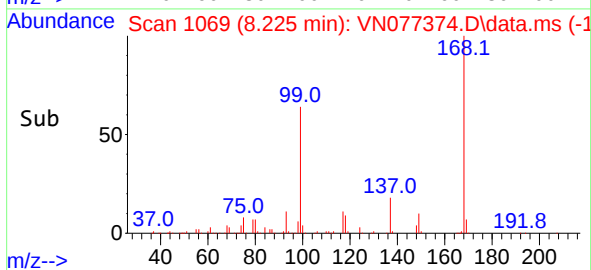
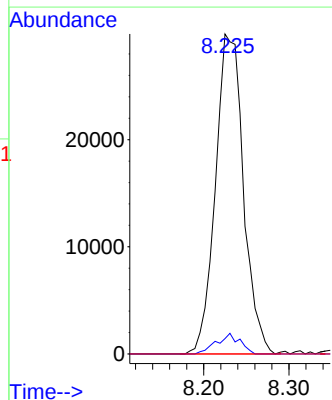
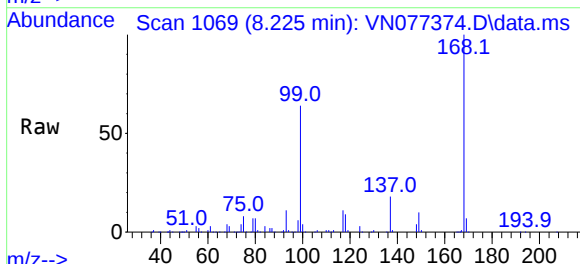
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

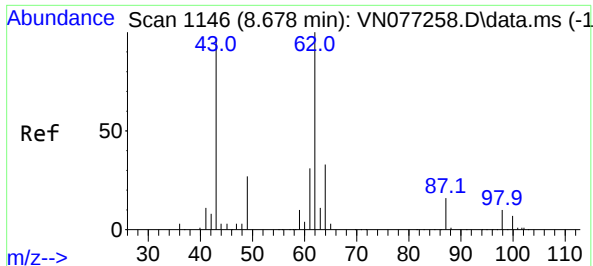
Tgt Ion: 43 Resp: 90888
Ion Ratio Lower Upper
43 100
61 19.2 12.2 18.2#
70 15.9 10.0 15.0#



#38
Carbon Tetrachloride
Concen: 5.851 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.141 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 117 Resp: 68213
Ion Ratio Lower Upper
117 100
119 4.8 78.5 117.7#
121 0.0 26.6 40.0#

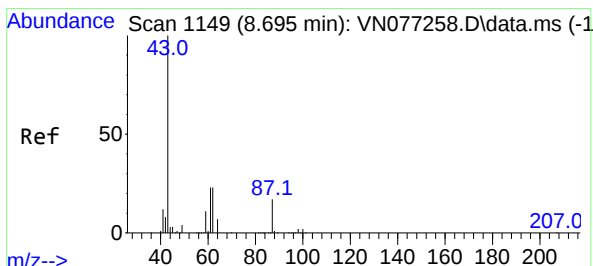
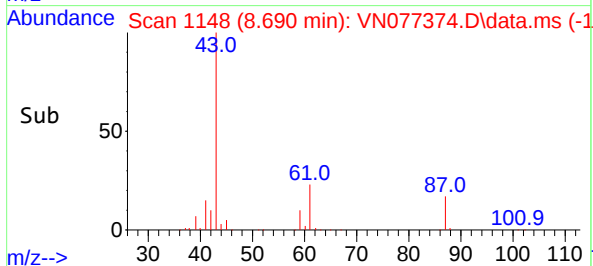
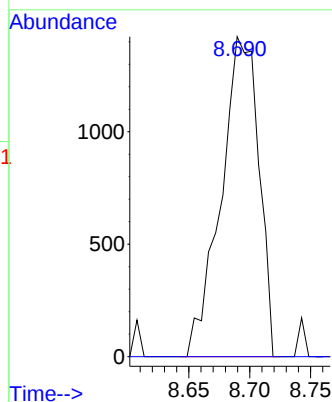
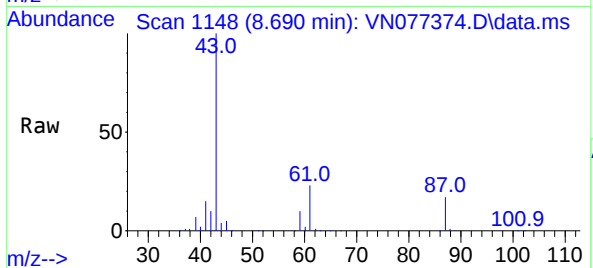




#42
1,2-Dichloroethane
Concen: 0.282 ug/l
RT: 8.690 min Scan# 1148
Delta R.T. 0.012 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

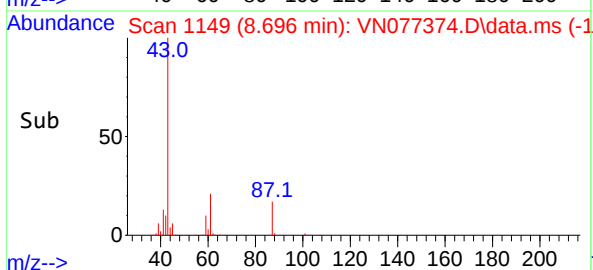
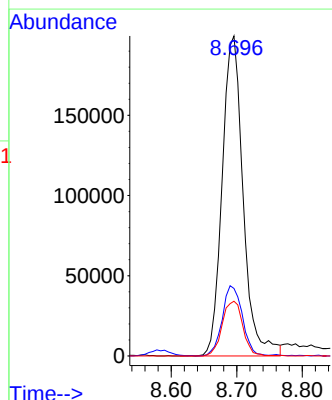
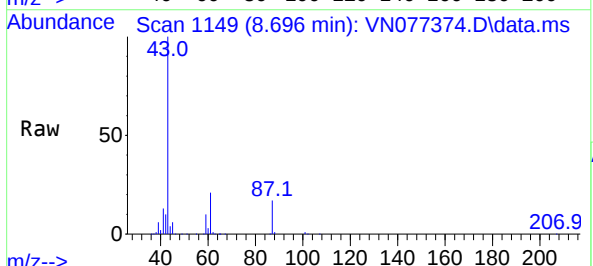
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

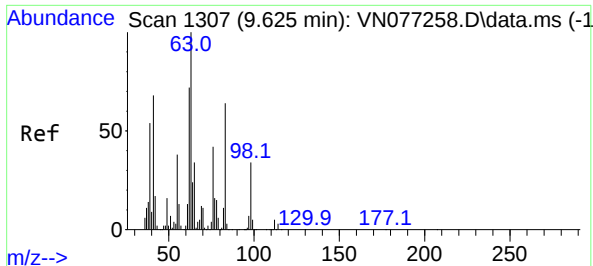
Tgt Ion: 62 Resp: 3076
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.2



#43
Isopropyl Acetate
Concen: 23.584 ug/l
RT: 8.696 min Scan# 1149
Delta R.T. 0.001 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 43 Resp: 443032
Ion Ratio Lower Upper
43 100
61 21.0 22.7 34.1#
87 16.7 13.6 20.4

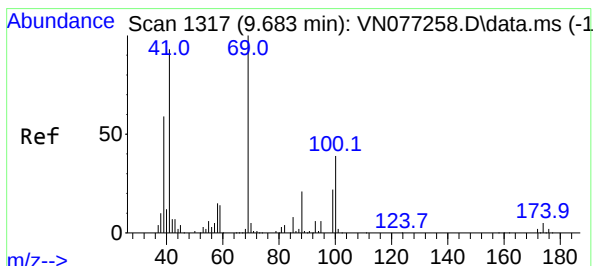
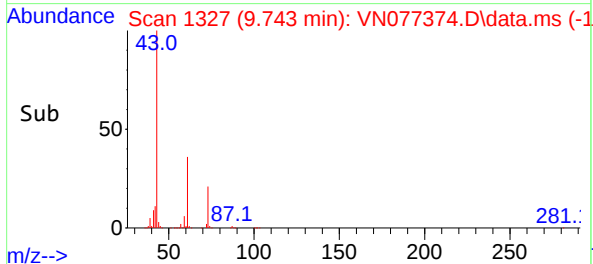
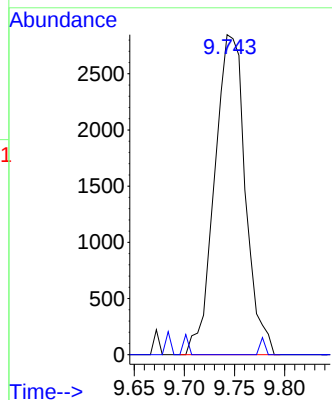
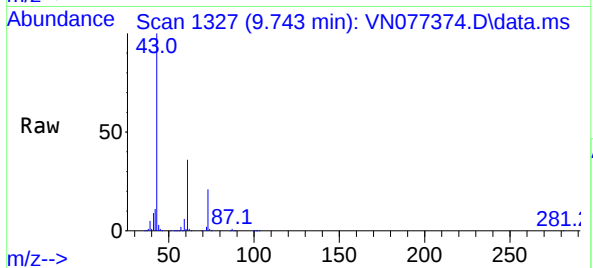




#45
1,2-Dichloropropane
Concen: 0.722 ug/l
RT: 9.743 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

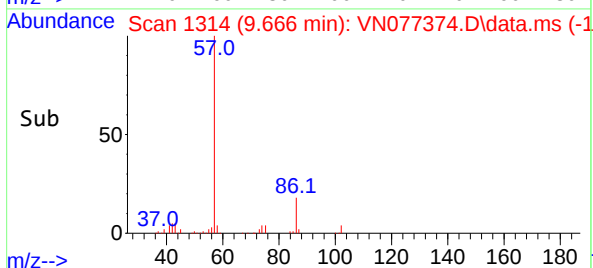
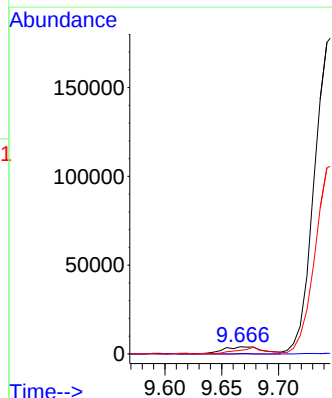
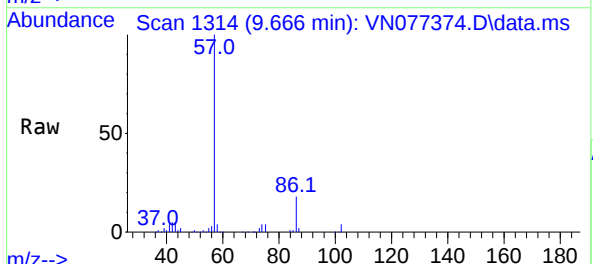
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

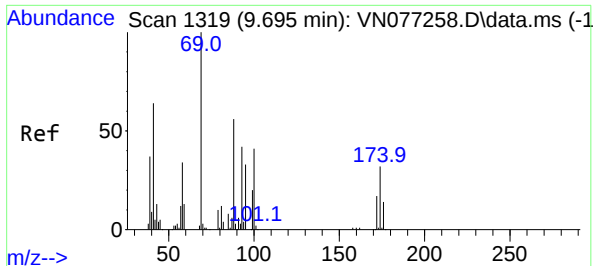
Tgt Ion: 63 Resp: 6086
Ion Ratio Lower Upper
63 100
65 0.0 27.1 40.7#



#48
Methyl methacrylate
Concen: 1.244 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 41 Resp: 9967
Ion Ratio Lower Upper
41 100
69 1.6 85.0 127.6#
39 65.1 53.5 80.3

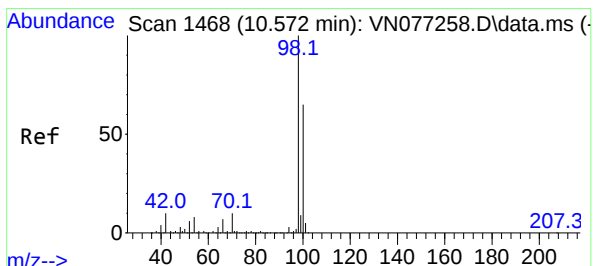
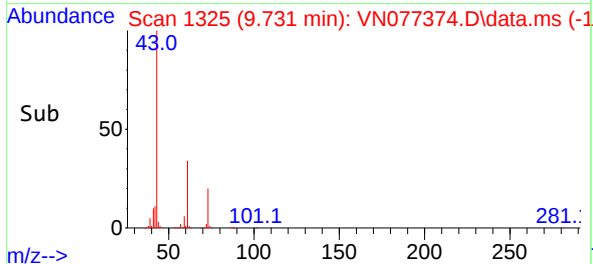
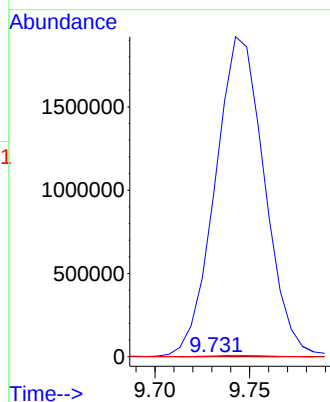
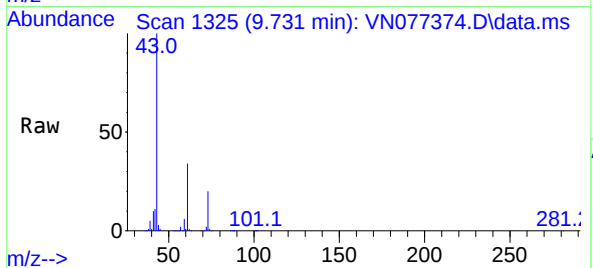




#49
1,4-Dioxane
Concen: 5.801 ug/l
RT: 9.731 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

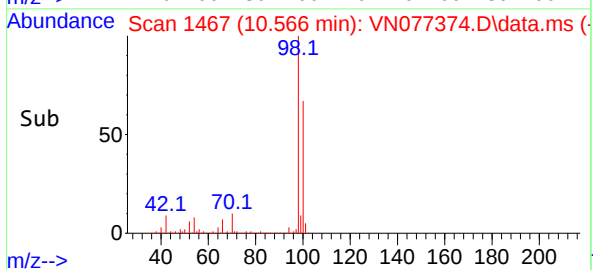
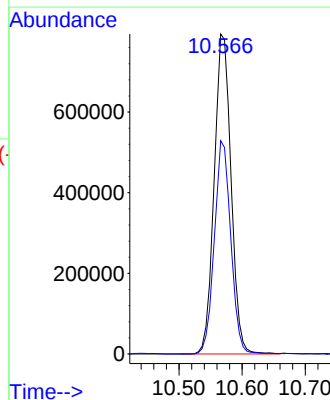
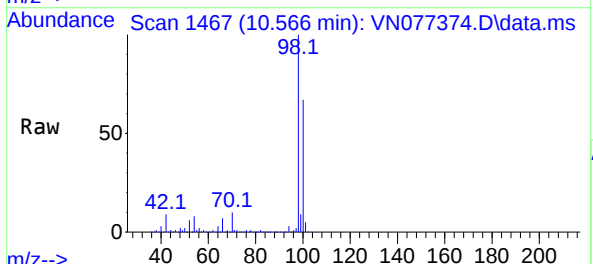
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

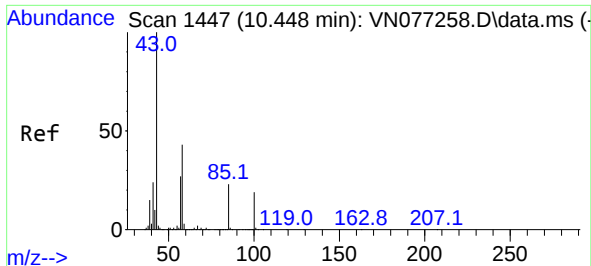
Tgt Ion: 88 Resp: 1127
Ion Ratio Lower Upper
88 100
43 311950.0 17.0 25.6#
58 1353.1 49.8 74.6#



#50
Toluene-d8
Concen: 47.492 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.006 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 98 Resp: 1470885
Ion Ratio Lower Upper
98 100
100 65.2 51.3 76.9

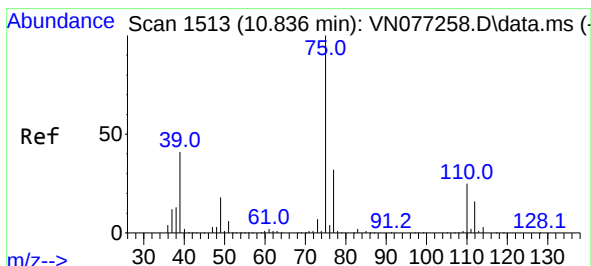
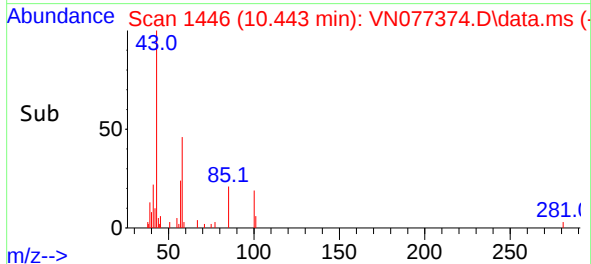
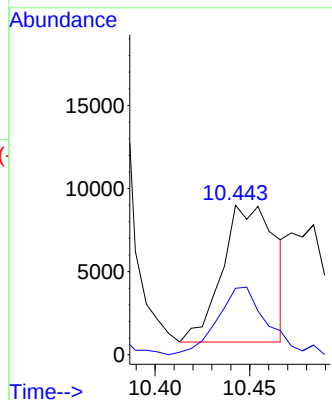
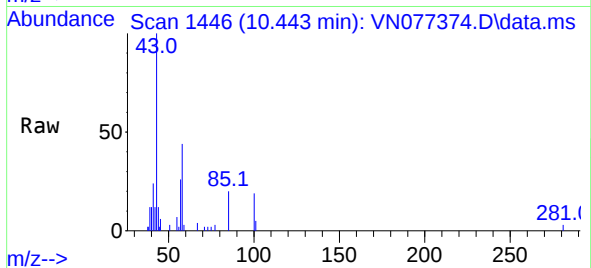




#51
4-Methyl-2-Pentanone
Concen: 1.485 ug/l
RT: 10.443 min Scan# 1446
Delta R.T. -0.005 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

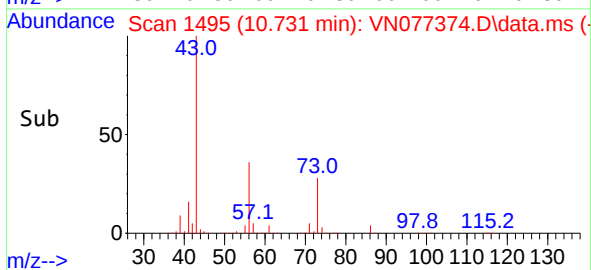
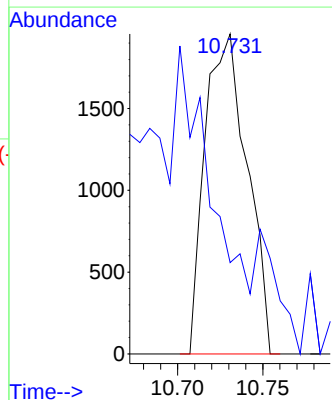
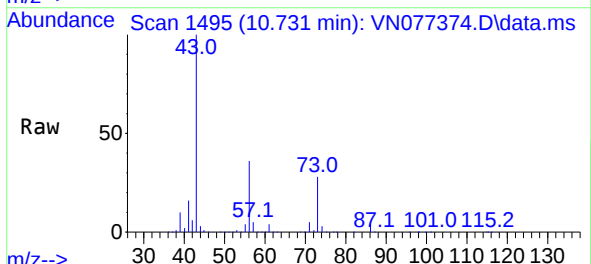
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

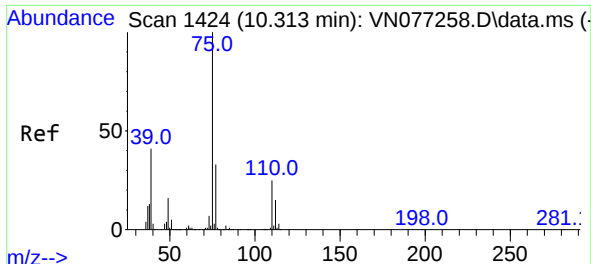
Tgt Ion: 43 Resp: 16125
Ion Ratio Lower Upper
43 100
58 46.6 34.6 52.0



#53
t-1,3-Dichloropropene
Concen: 0.244 ug/l
RT: 10.731 min Scan# 1495
Delta R.T. -0.105 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 75 Resp: 3360
Ion Ratio Lower Upper
75 100
77 12.0 25.4 38.0#

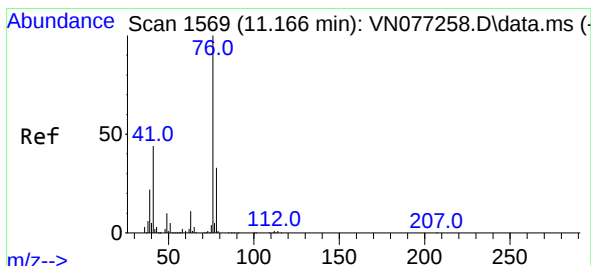
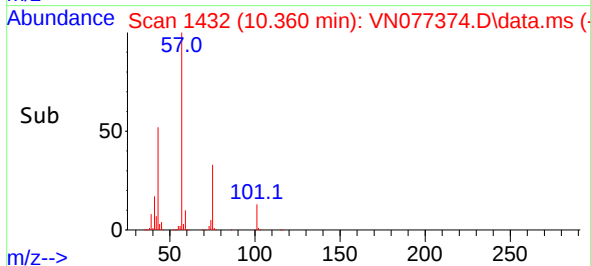
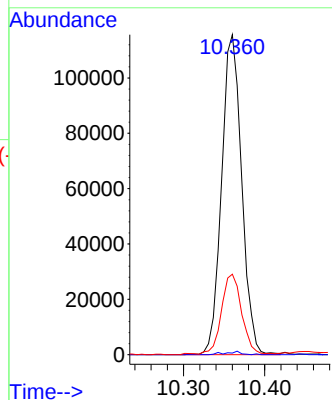
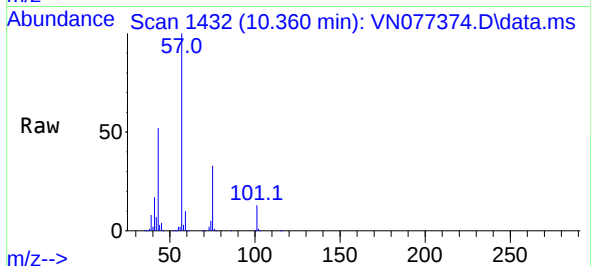




#54
cis-1,3-Dichloropropene
Concen: 13.546 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

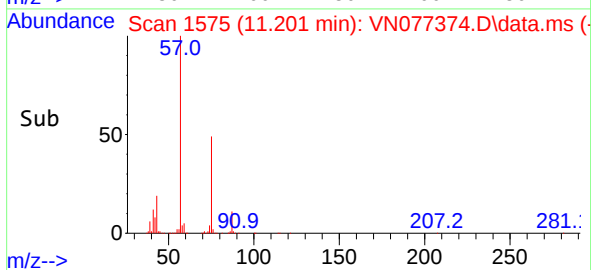
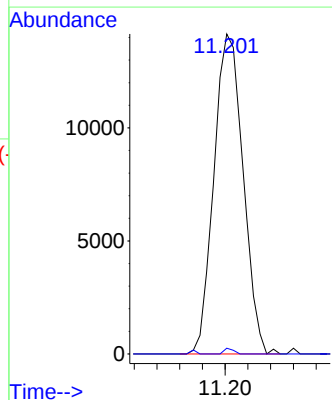
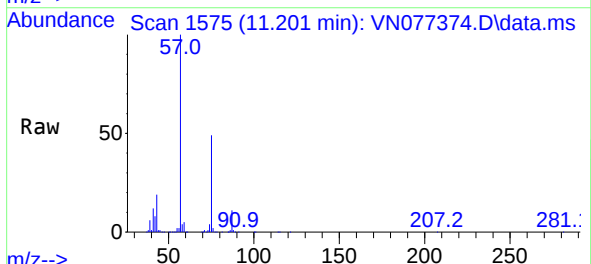
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

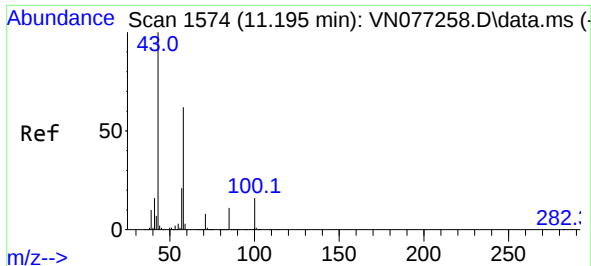
Tgt Ion: 75 Resp: 198882
Ion Ratio Lower Upper
75 100
77 0.5 26.7 40.1#
39 25.1 32.8 49.2#



#57
1,3-Dichloropropane
Concen: 1.677 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 76 Resp: 25270
Ion Ratio Lower Upper
76 100
78 0.6 26.2 39.4#

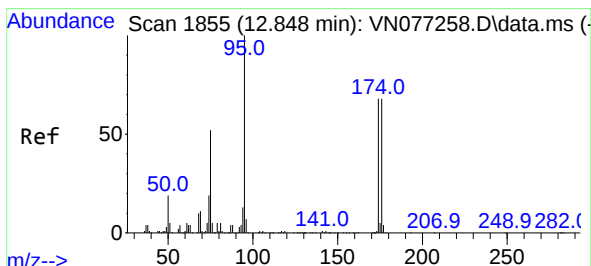
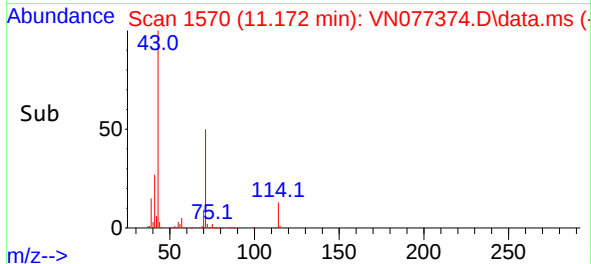
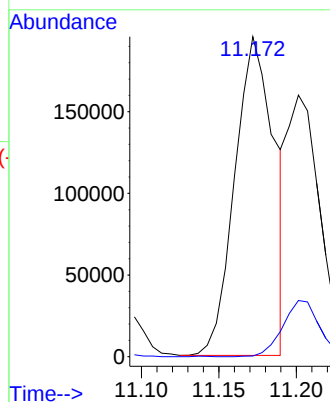
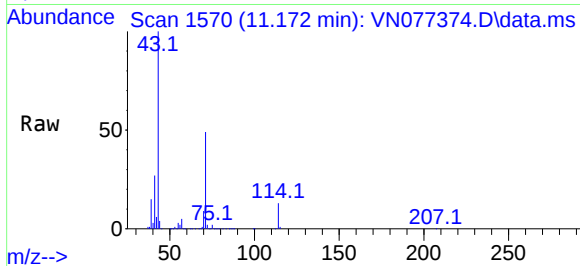




#59
2-Hexanone
Concen: 42.787 ug/l
RT: 11.172 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

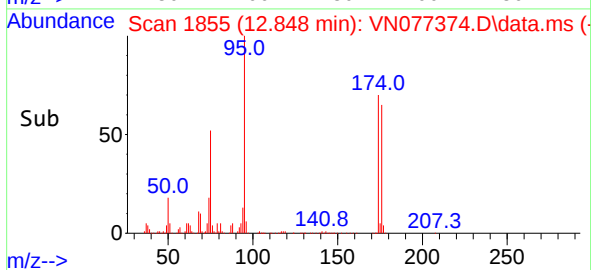
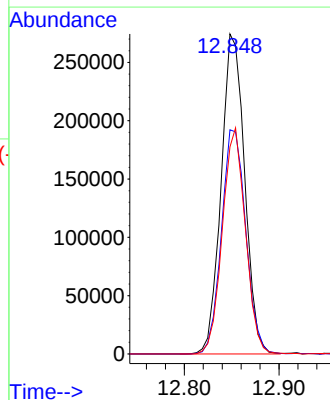
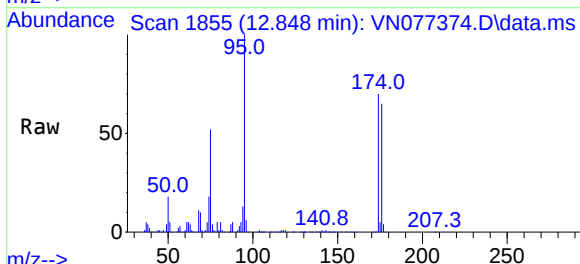
Instrument :
MSVOA_N
ClientSampleId :
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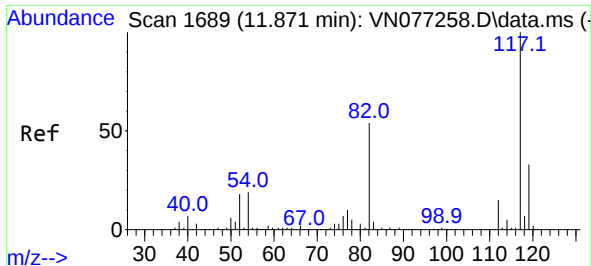
Tgt Ion: 43 Resp: 346128
Ion Ratio Lower Upper
43 100
58 0.0 30.9 92.5#



#62
4-Bromofluorobenzene
Concen: 45.827 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

Tgt Ion: 95 Resp: 472045
Ion Ratio Lower Upper
95 100
174 72.6 0.0 146.8
176 69.2 0.0 139.6

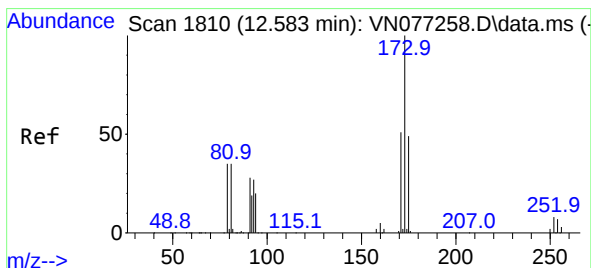
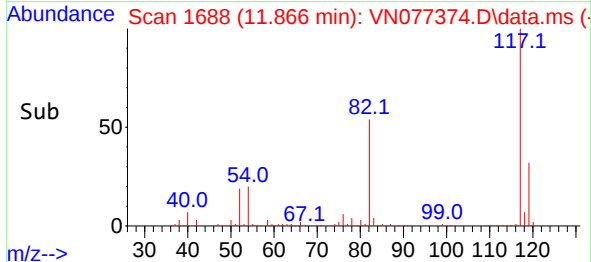
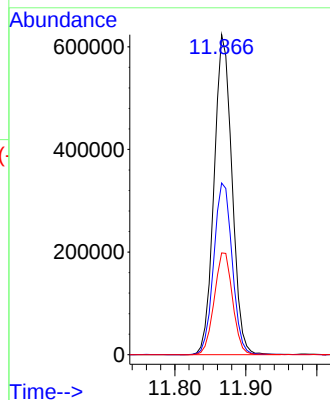
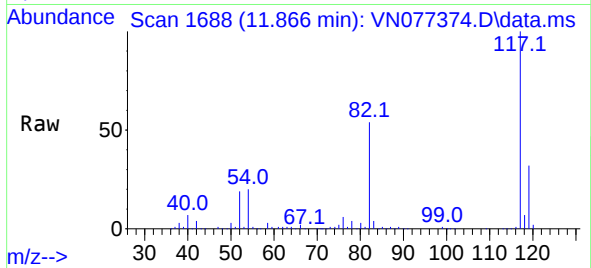




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11856
Delta R.T. -0.005 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

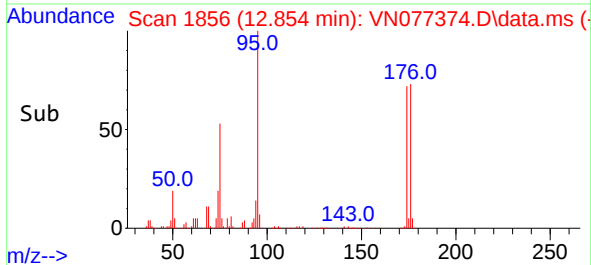
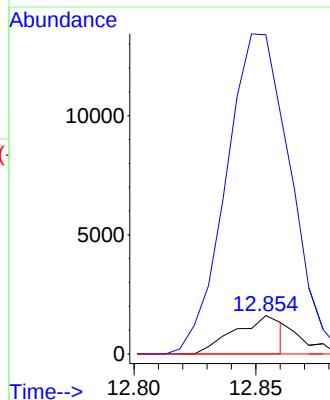
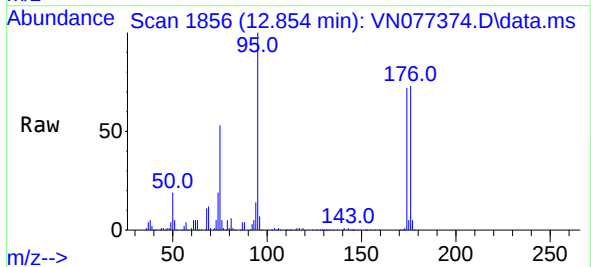
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

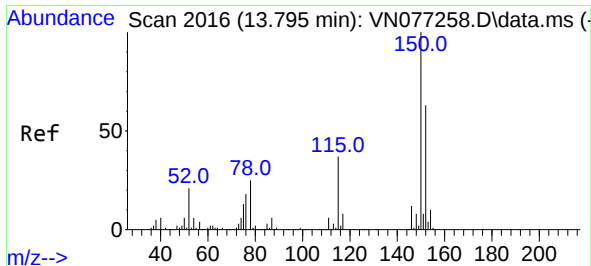
Tgt Ion:117 Resp: 1089601
Ion Ratio Lower Upper
117 100
82 53.7 42.9 64.3
119 31.8 26.2 39.4



#71
Bromoform
Concen: 0.338 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

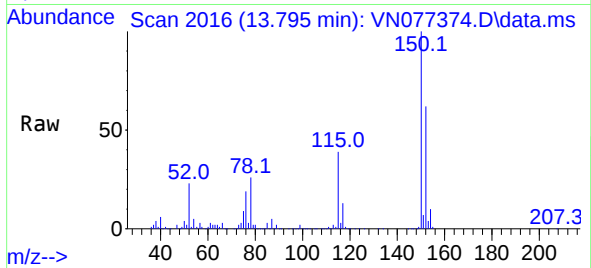
Tgt Ion:173 Resp: 2157
Ion Ratio Lower Upper
173 100
175 957.8 24.1 72.4#
254 0.0 0.1 0.1#



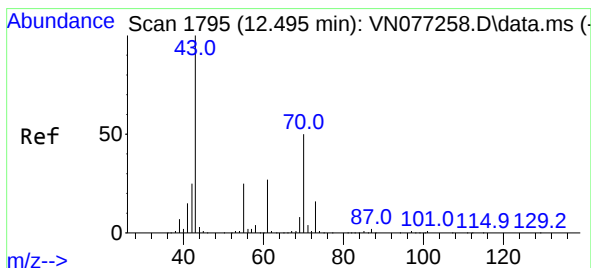
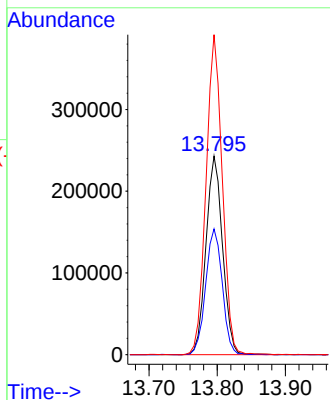
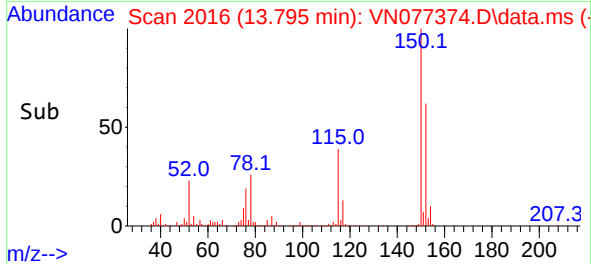


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

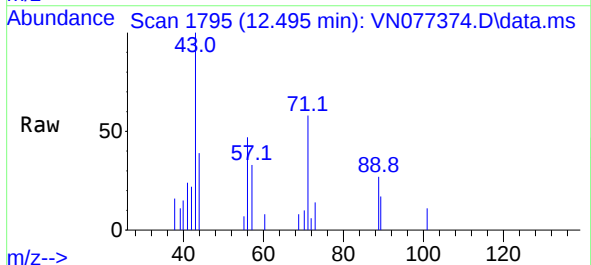
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02



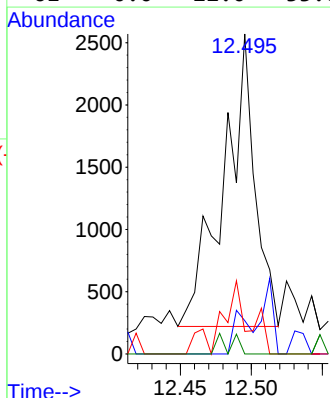
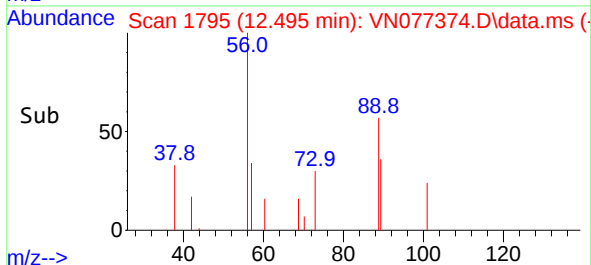
Tgt Ion:152 Resp: 410929
Ion Ratio Lower Upper
152 100
115 63.6 32.1 96.3
150 158.0 0.0 354.8

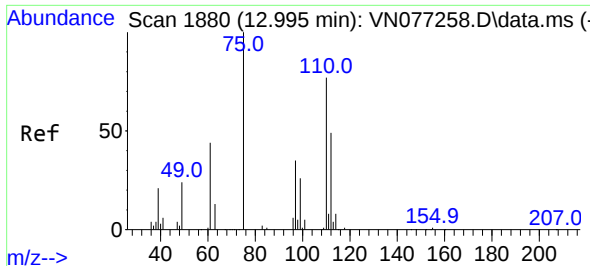


#74
N-ethyl acetate
Concen: 0.239 ug/l
RT: 12.495 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45



Tgt Ion: 43 Resp: 3610
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.6#
55 22.3 19.3 28.9
61 0.0 22.0 33.0#

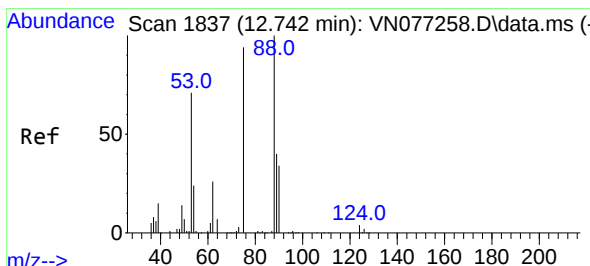
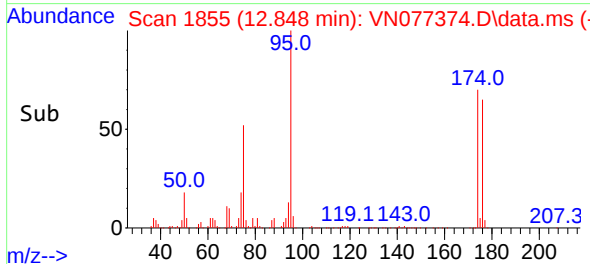
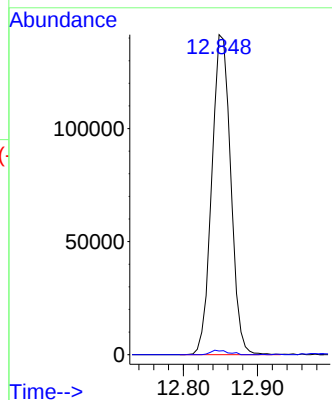
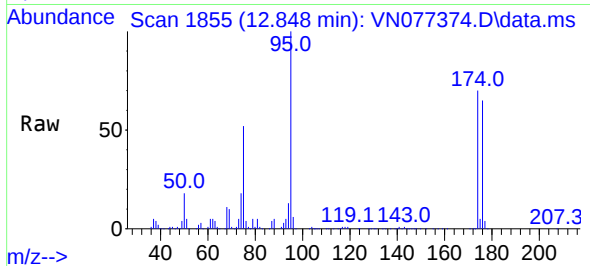




#76
1,2,3-Trichloropropane
Concen: 25.721 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

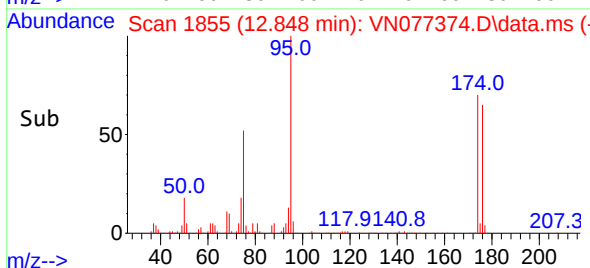
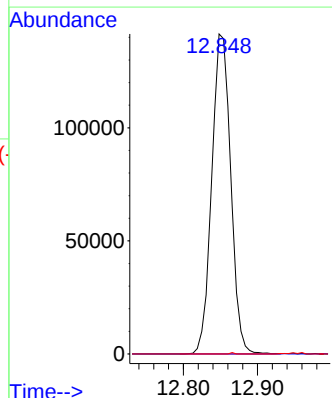
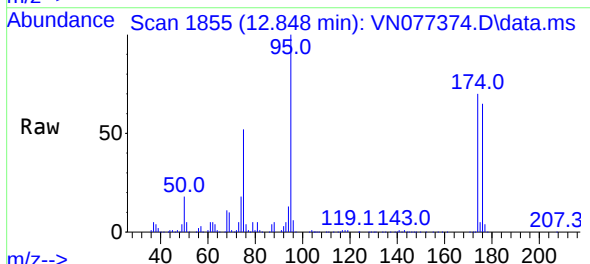
Instrument :
MSVOA_N
ClientSampleId :
PB152199ZHE#02

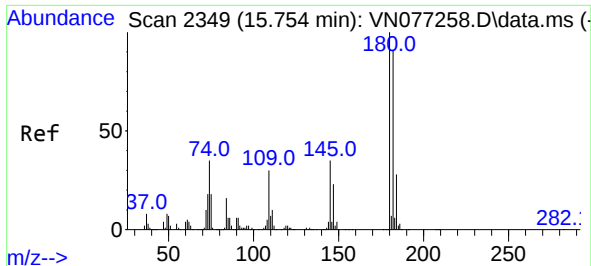
Tgt Ion: 75 Resp: 251685
Ion Ratio Lower Upper
75 100
77 1.3 88.3 264.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.880 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.106 min
Lab File: VN077374.D
Acq: 19 Apr 2023 14:45

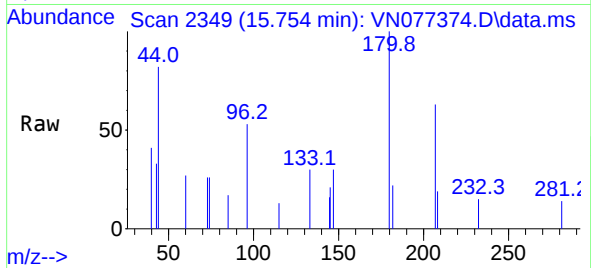
Tgt Ion: 75 Resp: 251685
Ion Ratio Lower Upper
75 100
53 0.0 72.8 109.2#
89 0.1 37.4 56.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.234 ug/l
 RT: 15.754 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077374.D
 Acq: 19 Apr 2023 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152199ZHE#02



Tgt Ion:	180	Resp:	1216
Ion	Ratio	Lower	Upper
180	100		
182	43.2	46.9	140.8#
145	46.8	17.6	52.8

