

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042923\
 Data File : VN077530.D
 Acq On : 29 Apr 2023 19:42
 Operator : JC\MD
 Sample : 02504-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-512-VOC-01

Quant Time: May 01 01:26:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

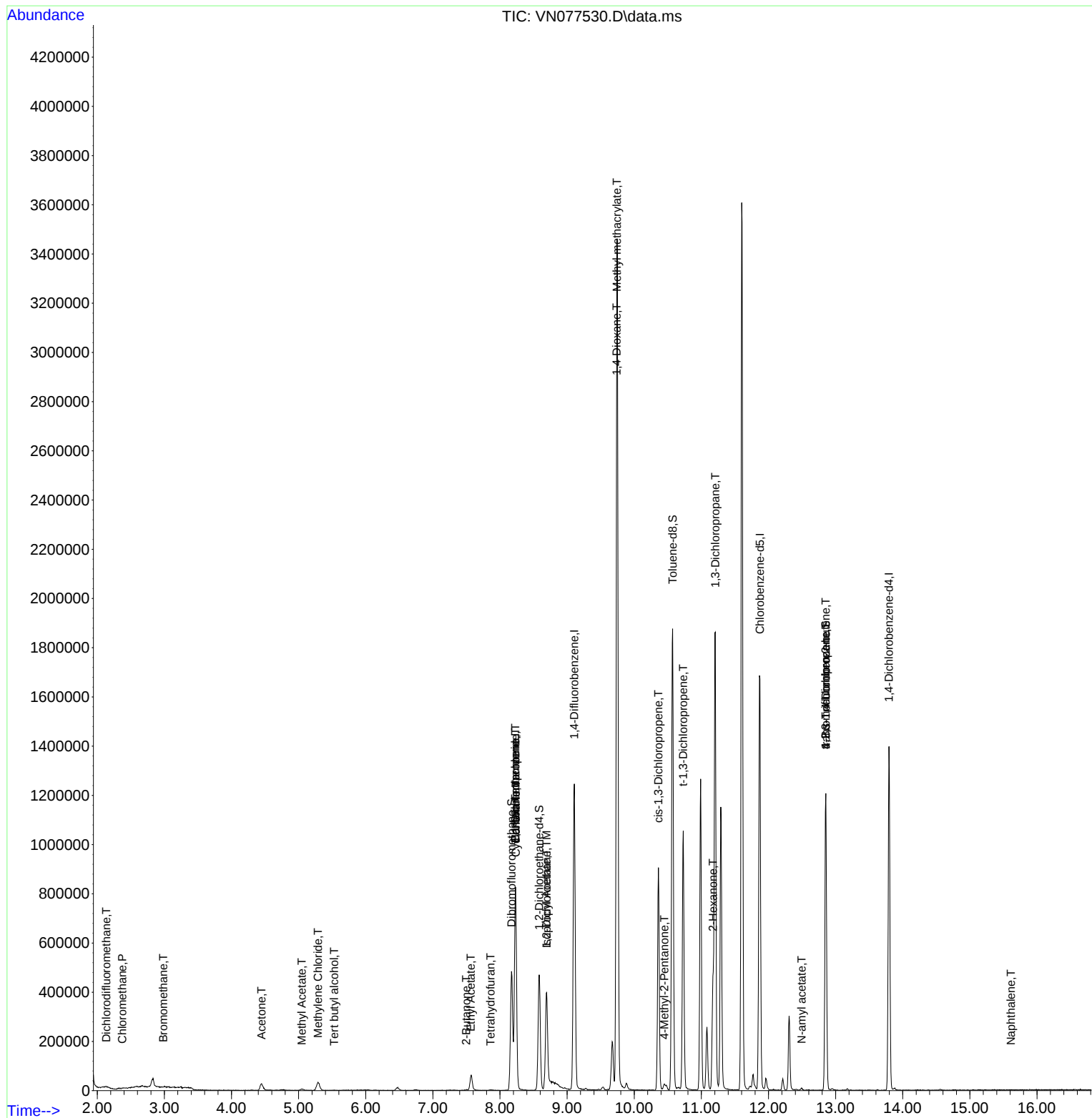
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.231	168	590412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1145812	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1062575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	374631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	391417	50.806	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.620%	
35) Dibromofluoromethane	8.172	113	348166	50.555	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.120%	
50) Toluene-d8	10.572	98	1390724	52.690	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.380%	
62) 4-Bromofluorobenzene	12.854	95	446744	51.733	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.460%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	67	0.318	ug/l #	43
3) Chloromethane	2.372	50	1280	0.216	ug/l #	42
5) Bromomethane	2.984	94	1515	0.222	ug/l #	56
11) Tert butyl alcohol	5.531	59	445	0.360	ug/l #	72
16) Acetone	4.448	43	51036	20.822	ug/l	94
18) Methyl Acetate	5.048	43	10082	1.065	ug/l #	72
20) Methylene Chloride	5.290	84	28951	3.725	ug/l	93
25) 2-Butanone	7.495	43	4688	1.349	ug/l #	85
29) Tetrahydrofuran	7.860	42	1339	0.615	ug/l #	68
31) Cyclohexane	8.236	56	14762	1.353	ug/l #	49
36) 1,1-Dichloropropene	8.231	75	50060	5.031	ug/l #	49
37) Ethyl Acetate	7.566	43	80874	10.697	ug/l	94
38) Carbon Tetrachloride	8.231	117	68008	6.195	ug/l #	16
42) 1,2-Dichloroethane	8.695	62	3077	0.296	ug/l	86
43) Isopropyl Acetate	8.695	43	457184	34.954	ug/l #	87
48) Methyl methacrylate	9.742	41	299651	50.330	ug/l #	30
49) 1,4-Dioxane	9.736	88	942	6.308	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	14422	1.880	ug/l	97
53) t-1,3-Dichloropropene	10.730	75	3393	0.301	ug/l	94
54) cis-1,3-Dichloropropene	10.360	75	198581	16.168	ug/l #	63
57) 1,3-Dichloropropane	11.207	76	22600	1.777	ug/l #	44
59) 2-Hexanone	11.172	43	322187	57.775	ug/l #	19
74) N-amyl acetate	12.495	43	3310	0.322	ug/l #	40
76) 1,2,3-Trichloropropane	12.854	75	238365	27.362	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	238365	77.301	ug/l #	15
95) Naphthalene	15.612	128	54	1.146	ug/l #	70

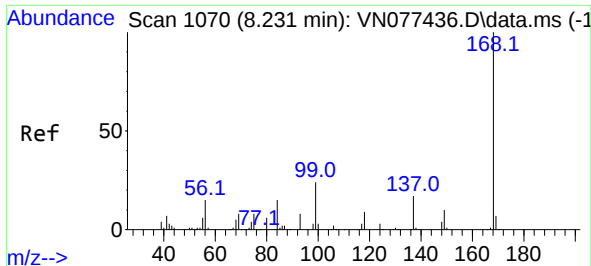
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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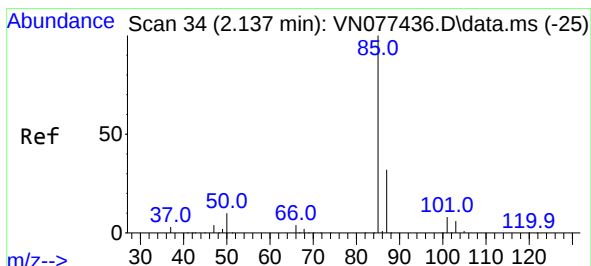
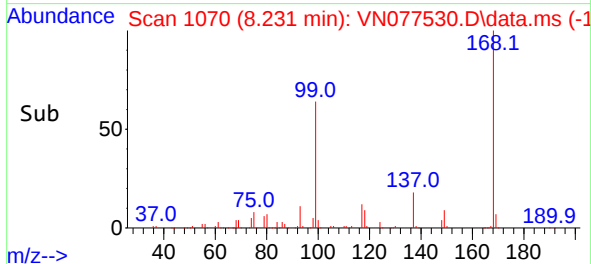
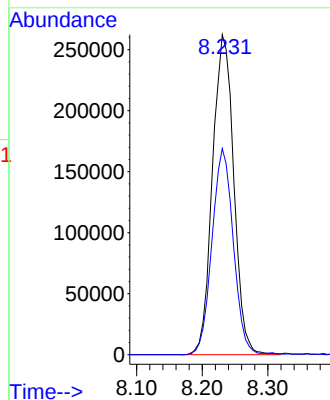
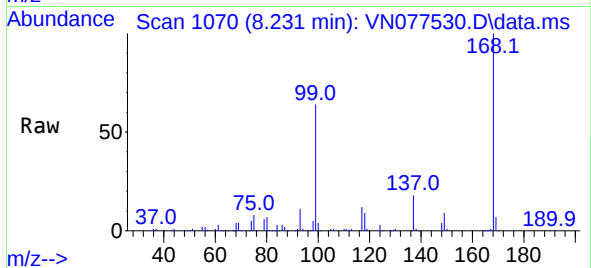




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

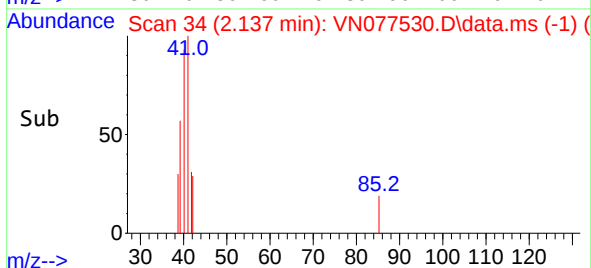
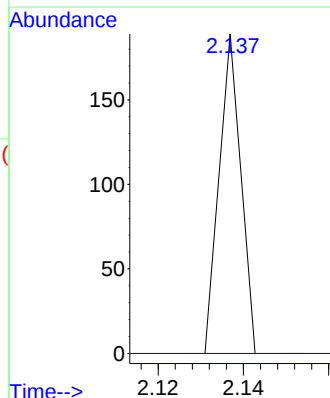
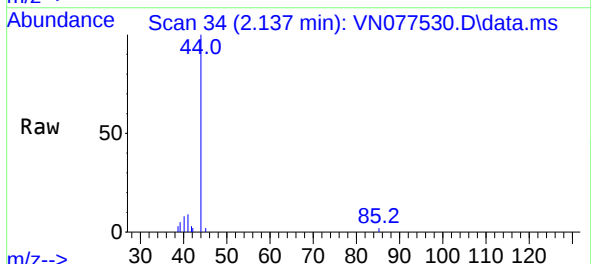
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

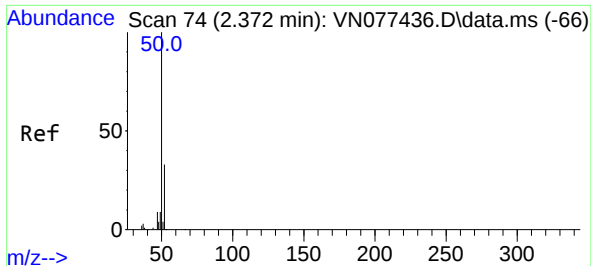
Tgt Ion:168 Resp: 590412
Ion Ratio Lower Upper
168 100
99 64.4 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.318 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 85 Resp: 67
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

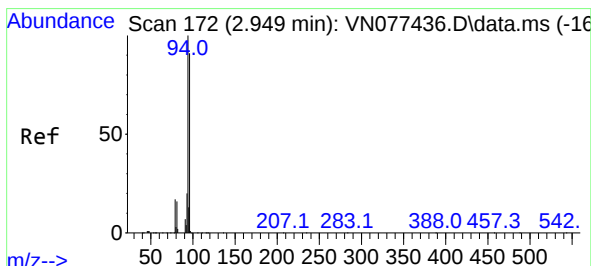
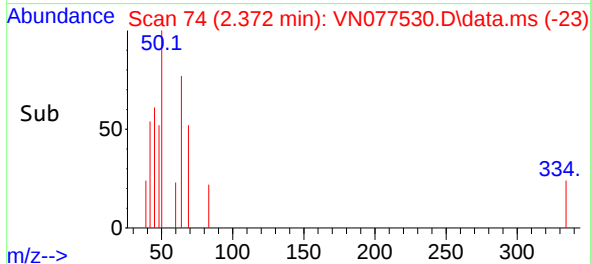
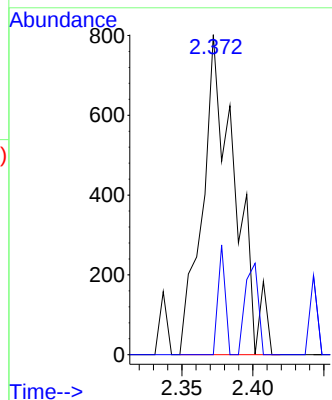
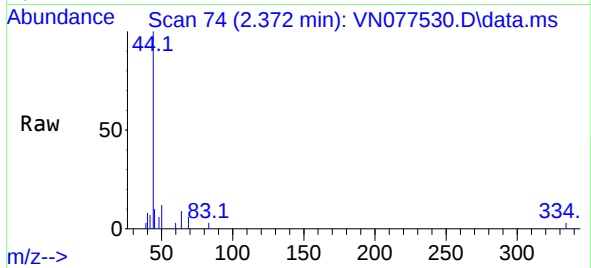




#3
Chloromethane
Concen: 0.216 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

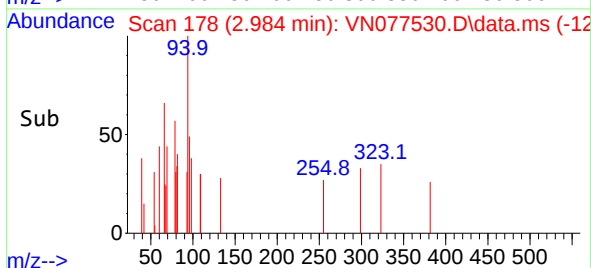
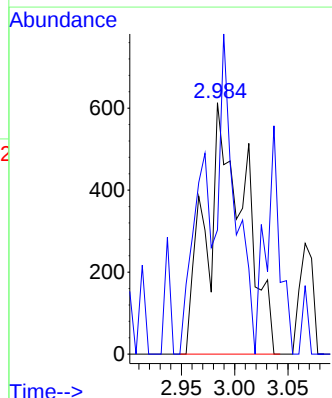
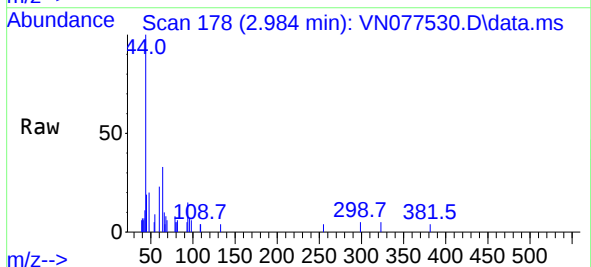
Instrument :
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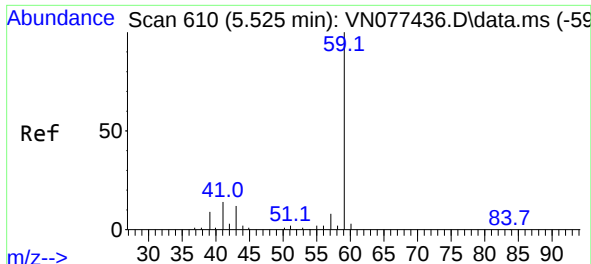
Tgt Ion: 50 Resp: 1280
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



#5
Bromomethane
Concen: 0.222 ug/l
RT: 2.984 min Scan# 178
Delta R.T. 0.035 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 94 Resp: 1515
Ion Ratio Lower Upper
94 100
96 49.4 73.1 109.7#

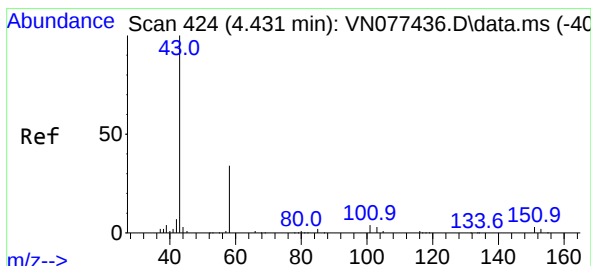
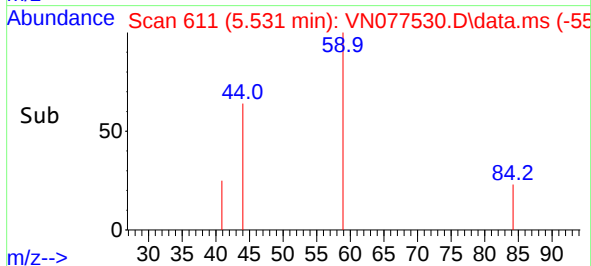
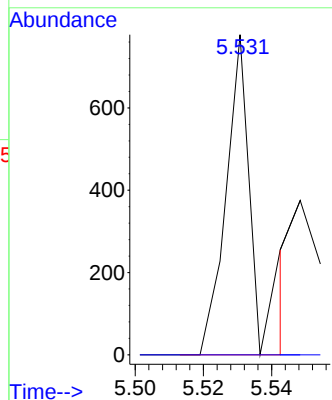
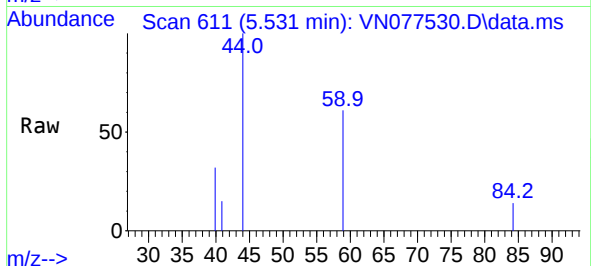




#11
Tert butyl alcohol
Concen: 0.360 ug/l
RT: 5.531 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

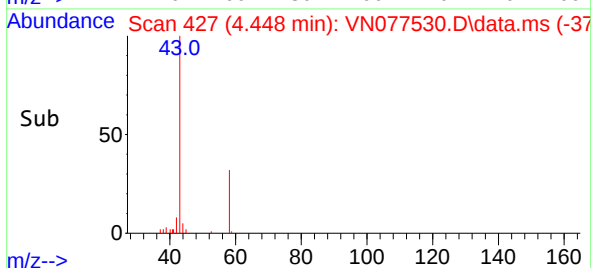
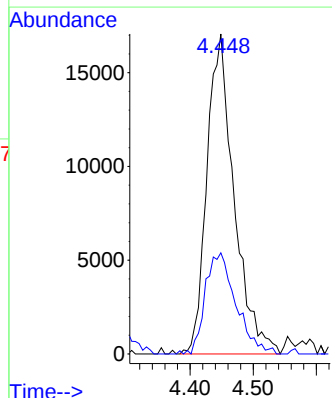
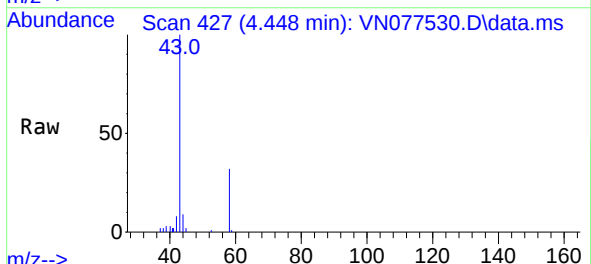
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ClientSampleId :
BU-512-VOC-01

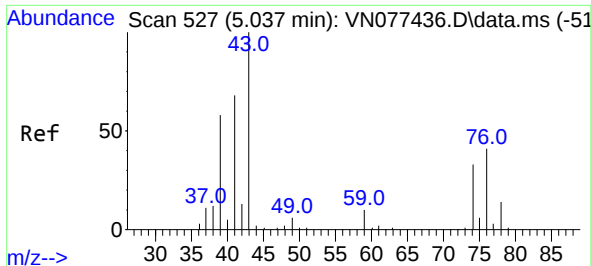
Tgt Ion: 59 Resp: 445
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 20.822 ug/l
RT: 4.448 min Scan# 427
Delta R.T. 0.018 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 43 Resp: 51036
Ion Ratio Lower Upper
43 100
58 31.6 28.0 42.0

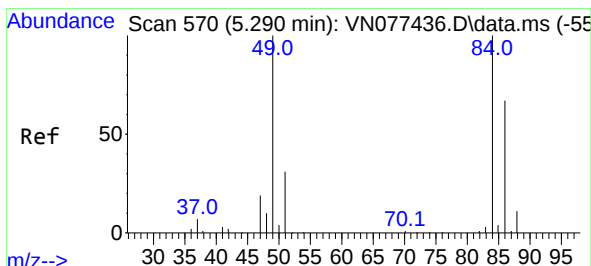
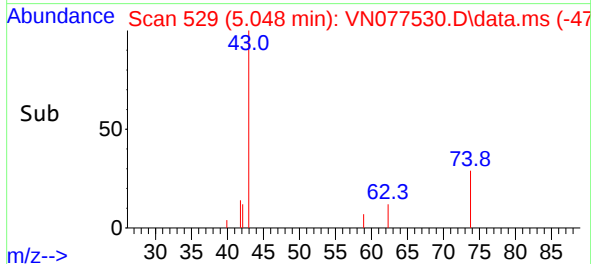
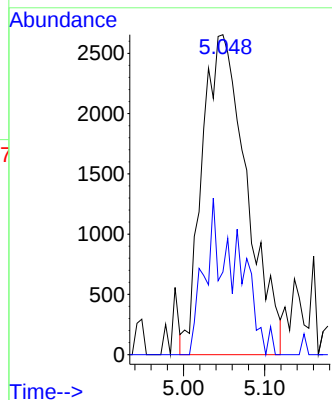
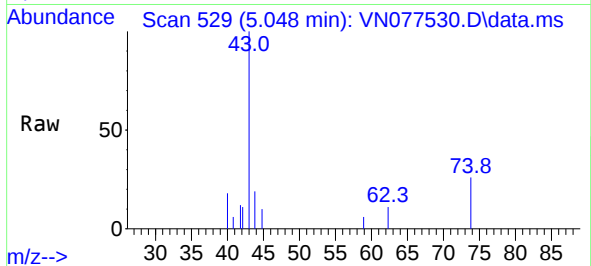




#18
Methyl Acetate
Concen: 1.065 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

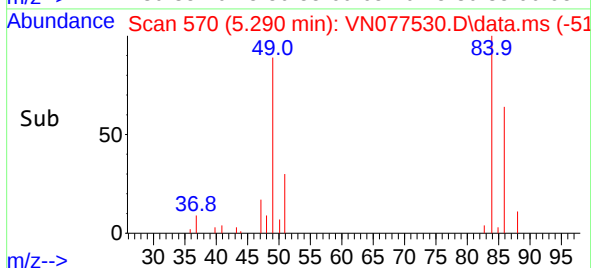
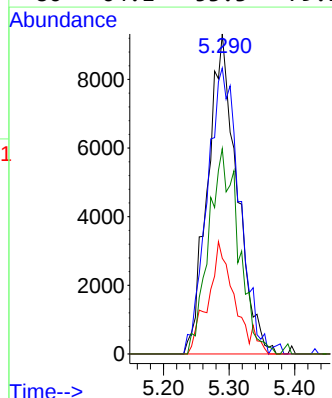
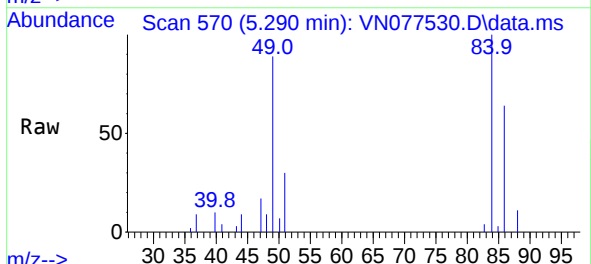
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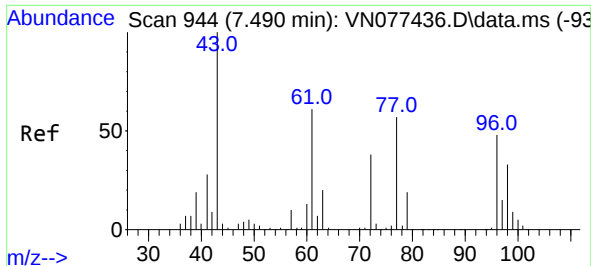
Tgt Ion: 43 Resp: 10082
Ion Ratio Lower Upper
43 100
74 16.8 26.2 39.4#



#20
Methylene Chloride
Concen: 3.725 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 84 Resp: 28951
Ion Ratio Lower Upper
84 100
49 89.3 79.7 119.5
51 29.9 25.2 37.8
86 64.1 53.3 79.9

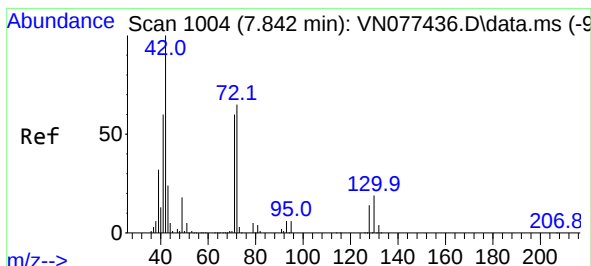
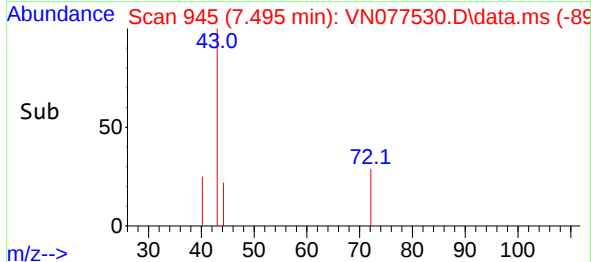
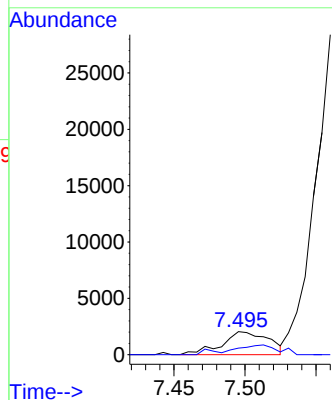
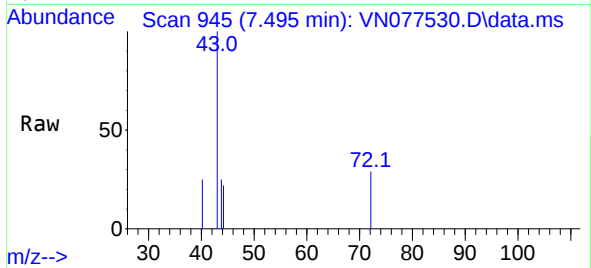




#25
2-Butanone
Concen: 1.349 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

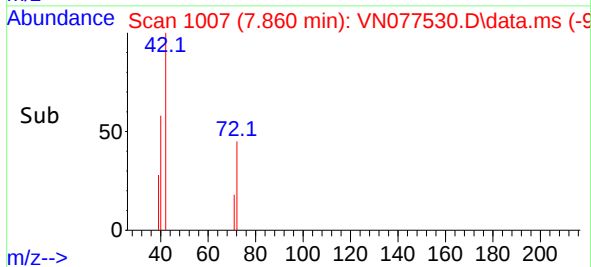
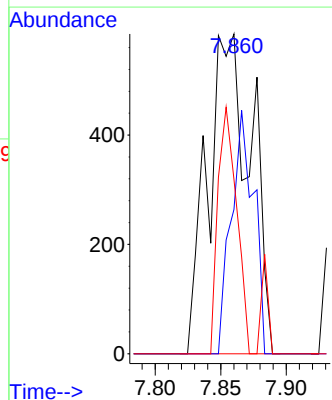
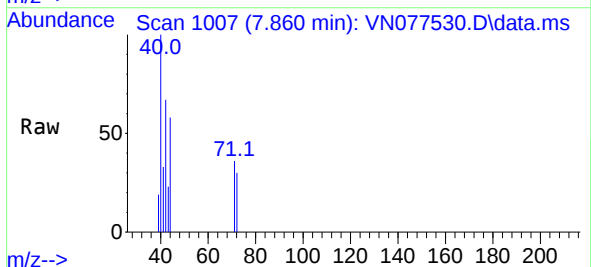
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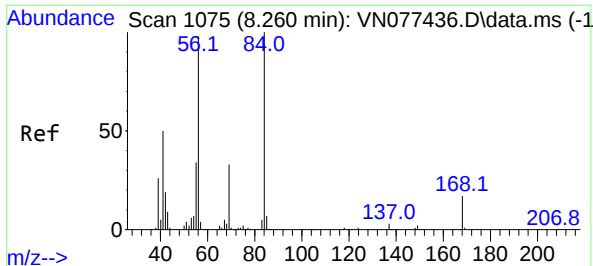
Tgt Ion: 43 Resp: 4688
Ion Ratio Lower Upper
43 100
72 28.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.615 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

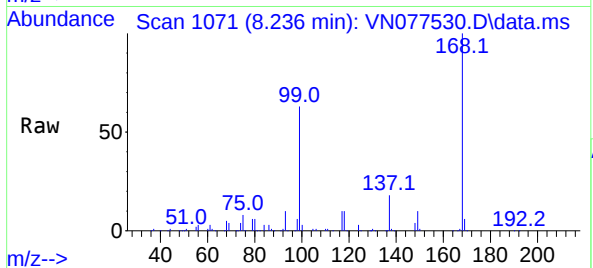
Tgt Ion: 42 Resp: 1339
Ion Ratio Lower Upper
42 100
72 39.7 49.8 74.6#
71 33.5 47.4 71.2#



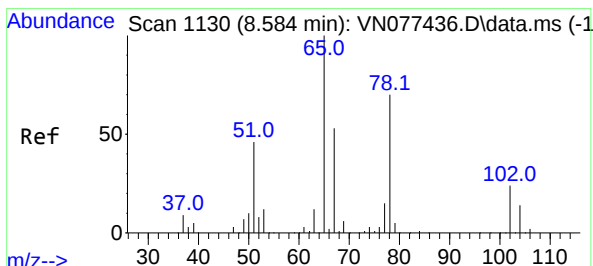
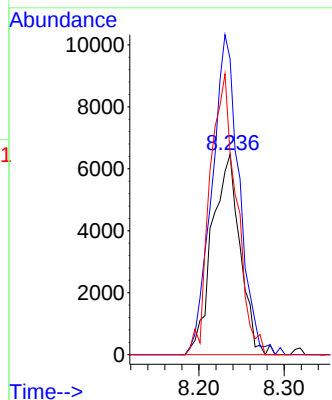
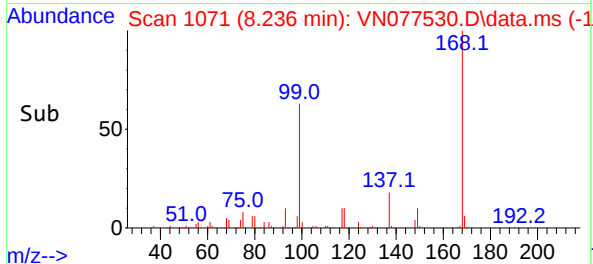


#31
Cyclohexane
Concen: 1.353 ug/l
RT: 8.236 min Scan# 1075
Delta R.T. -0.024 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

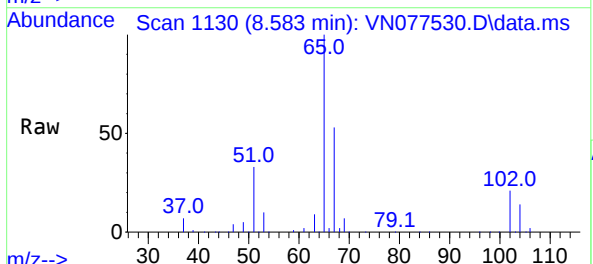
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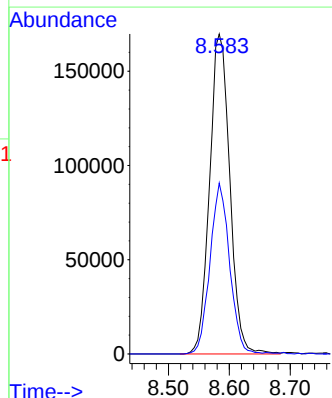
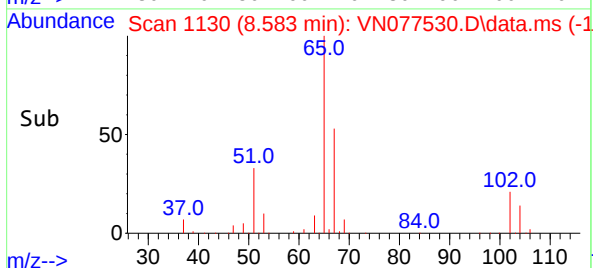
Tgt Ion: 56 Resp: 14762
Ion Ratio Lower Upper
56 100
69 147.6 26.8 40.2#
84 100.1 81.8 122.6

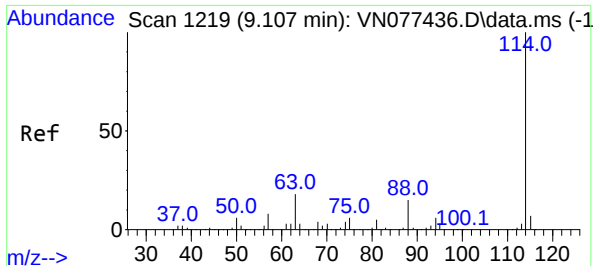


#33
1,2-Dichloroethane-d4
Concen: 50.806 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42



Tgt Ion: 65 Resp: 391417
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.6

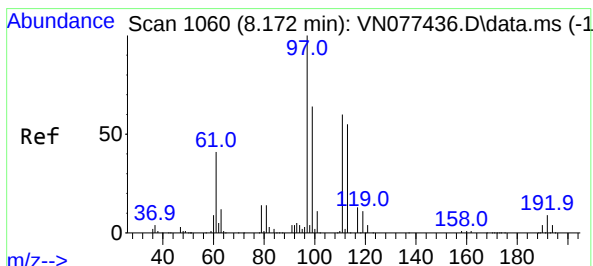
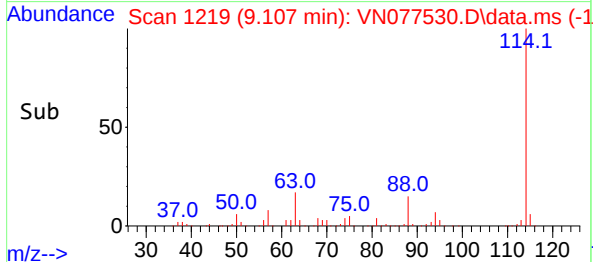
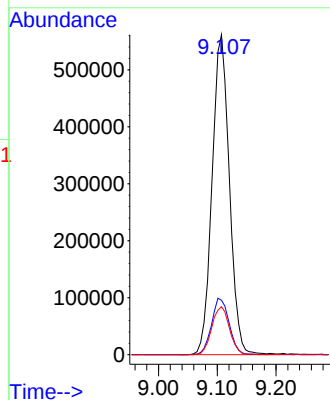
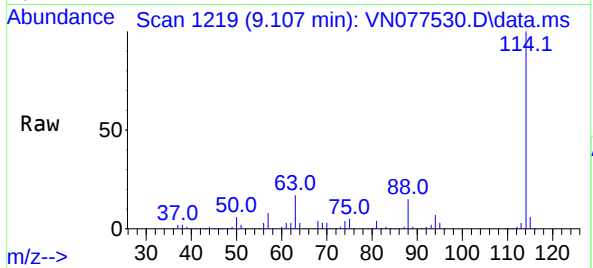




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

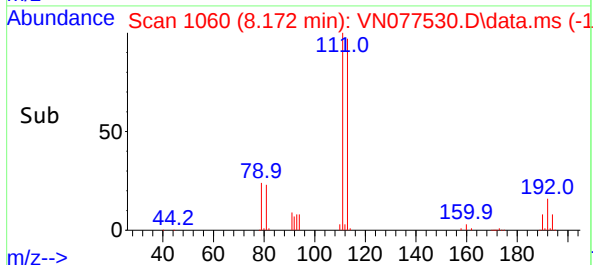
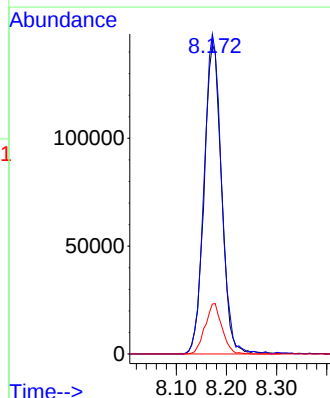
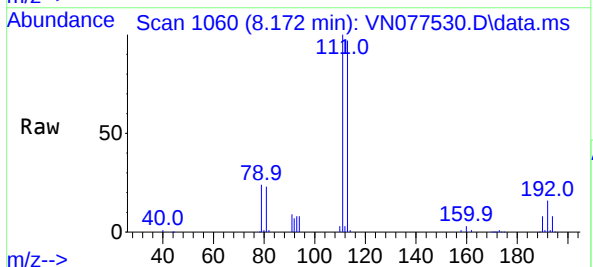
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

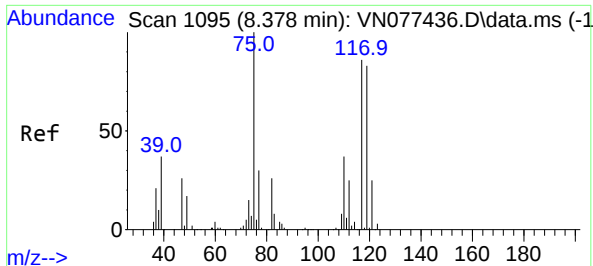
Tgt Ion:114 Resp: 1145812
Ion Ratio Lower Upper
114 100
63 17.0 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.555 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion:113 Resp: 348166
Ion Ratio Lower Upper
113 100
111 102.5 82.6 123.8
192 15.7 12.7 19.1

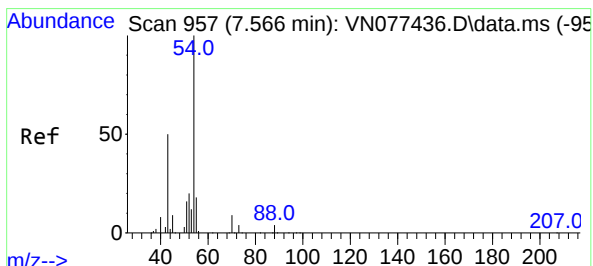
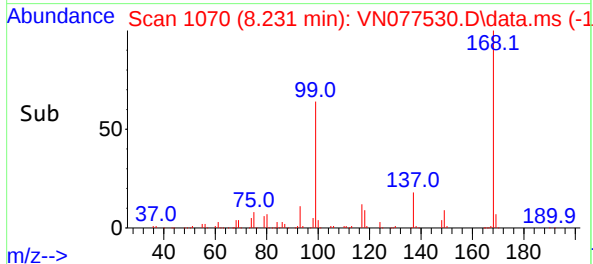
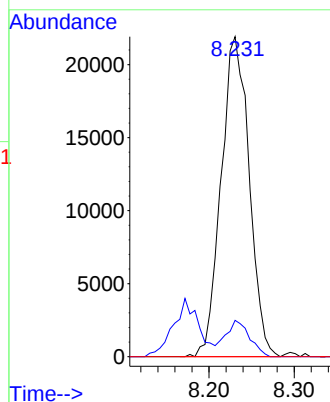
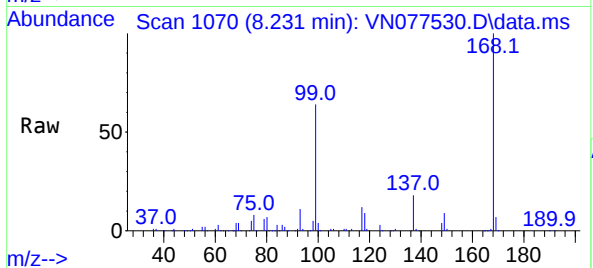




#36
1,1-Dichloropropene
Concen: 5.031 ug/l
RT: 8.231 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

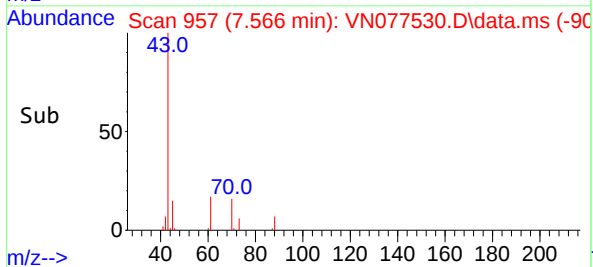
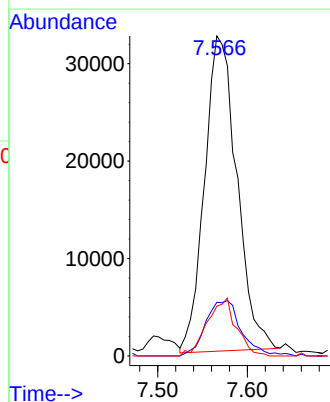
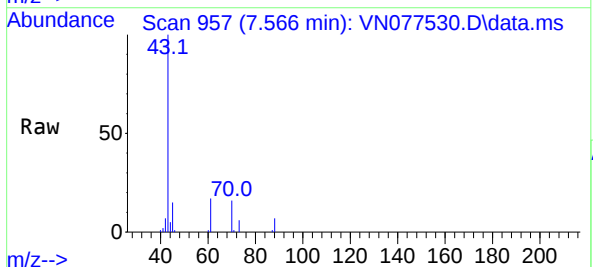
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

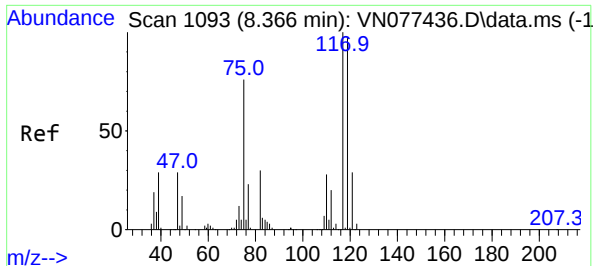
Tgt Ion: 75 Resp: 50060
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.697 ug/l
RT: 7.566 min Scan# 957
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 43 Resp: 80874
Ion Ratio Lower Upper
43 100
61 19.4 13.2 19.8
70 16.5 11.3 16.9

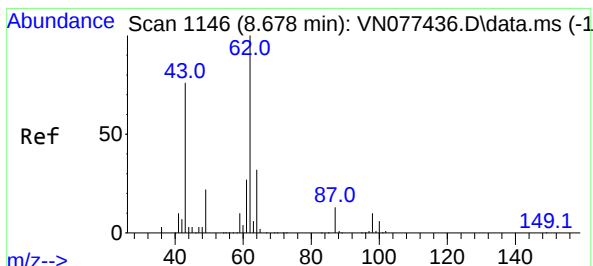
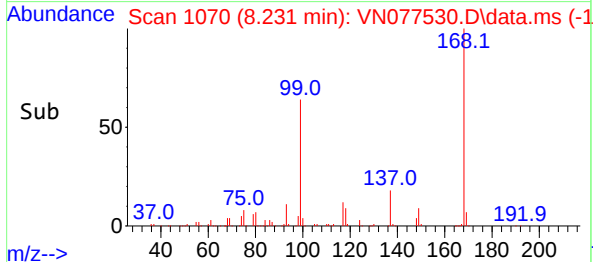
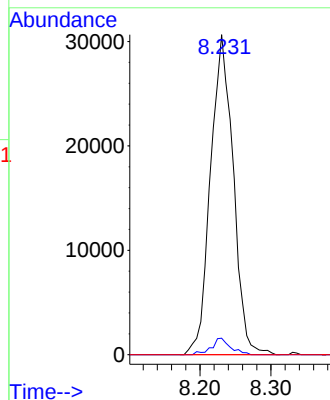
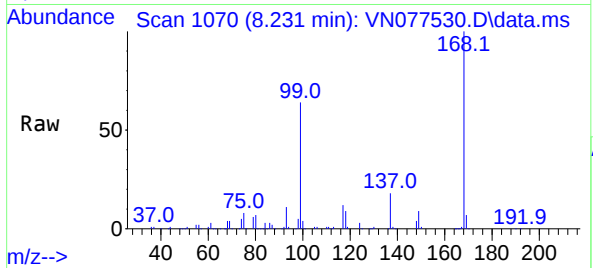




#38
Carbon Tetrachloride
Concen: 6.195 ug/l
RT: 8.231 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

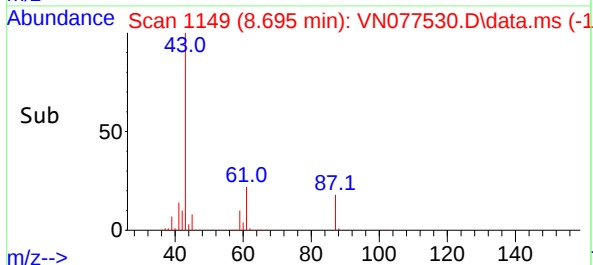
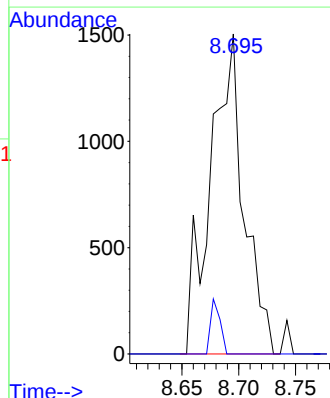
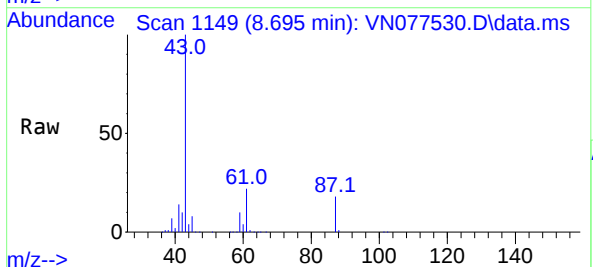
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

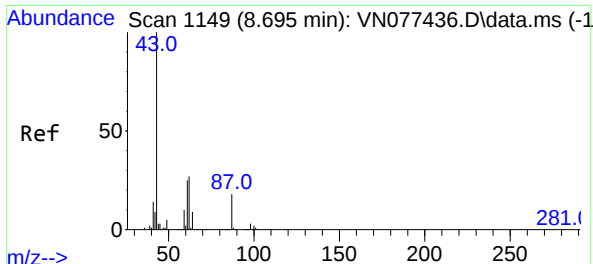
Tgt Ion:117 Resp: 68008
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.296 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 62 Resp: 3077
Ion Ratio Lower Upper
62 100
98 4.8 0.0 19.8

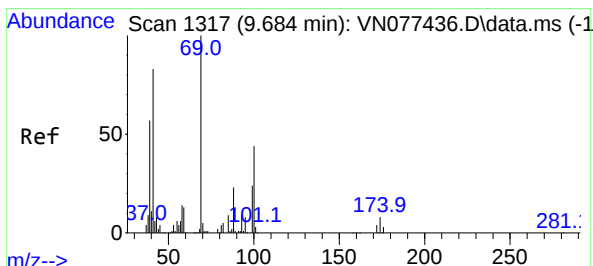
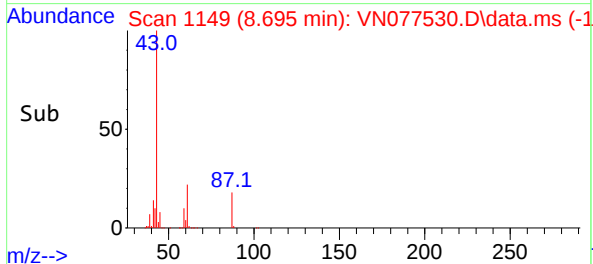
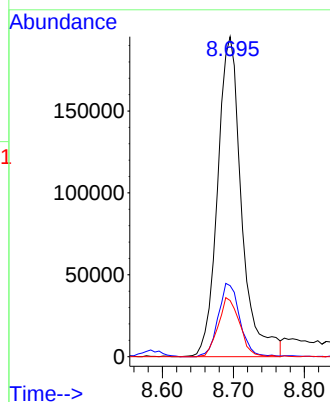
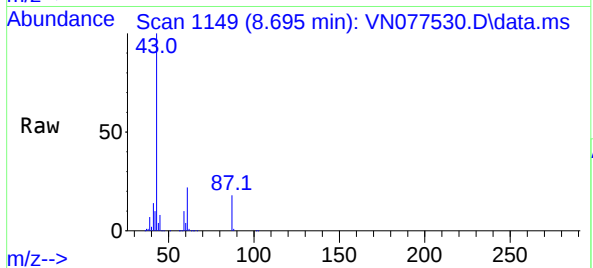




#43
Isopropyl Acetate
Concen: 34.954 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

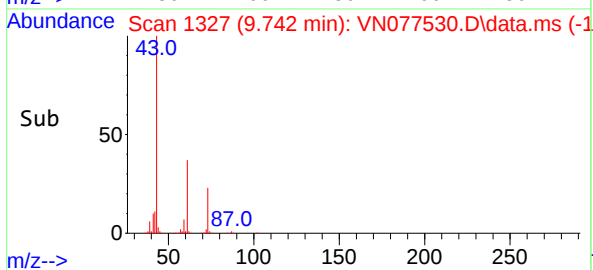
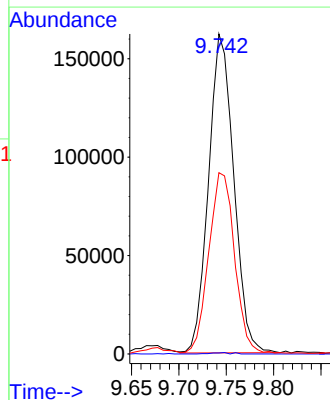
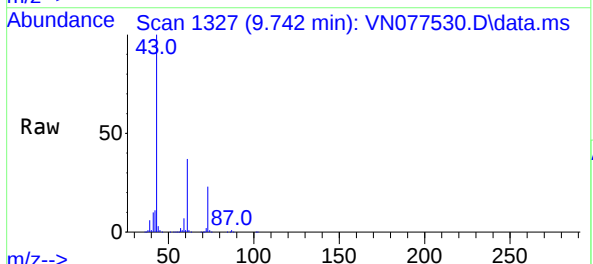
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

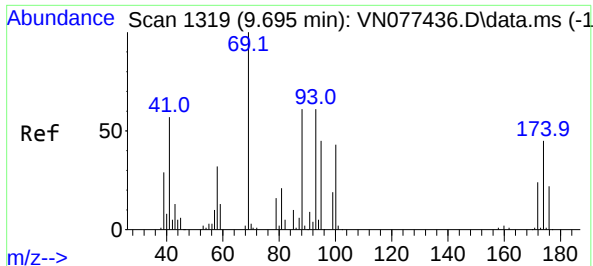
Tgt Ion: 43 Resp: 457184
Ion Ratio Lower Upper
43 100
61 20.6 24.7 37.1#
87 16.3 14.6 21.8



#48
Methyl methacrylate
Concen: 50.330 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.059 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 41 Resp: 299651
Ion Ratio Lower Upper
41 100
69 0.3 90.4 135.6#
39 59.0 54.6 81.8

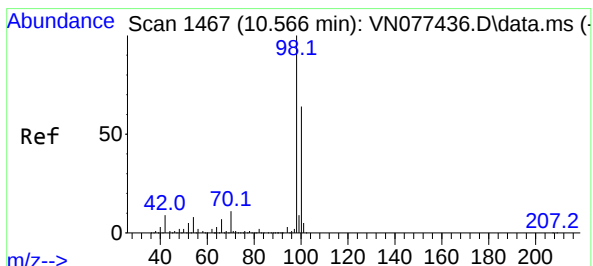
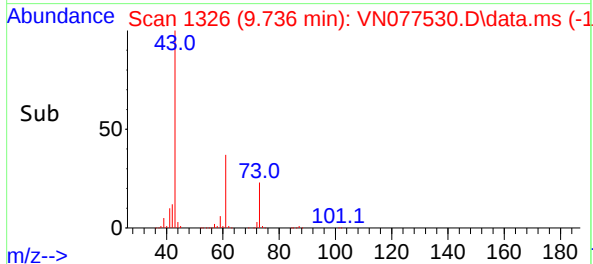
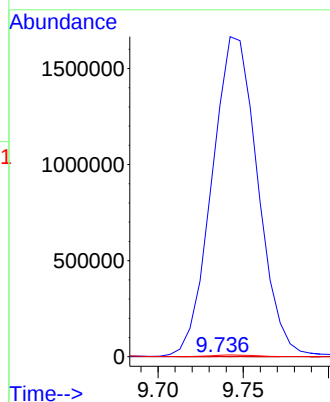
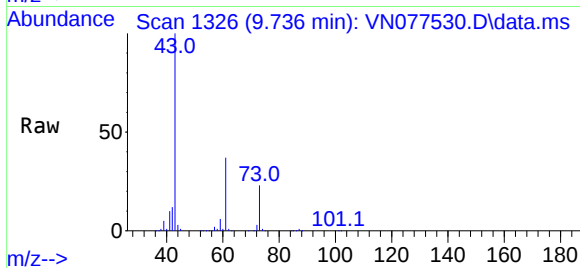




#49
1,4-Dioxane
Concen: 6.308 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

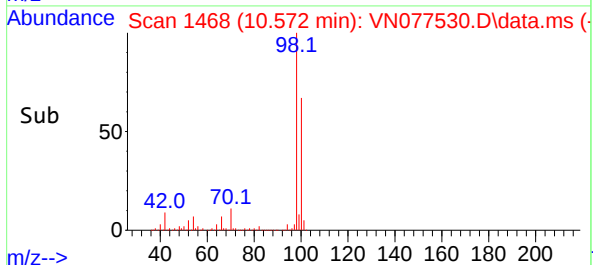
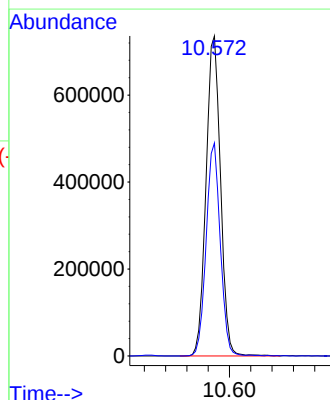
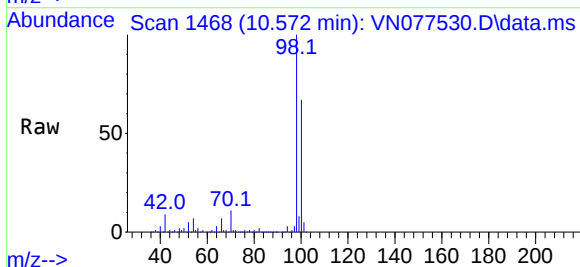
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

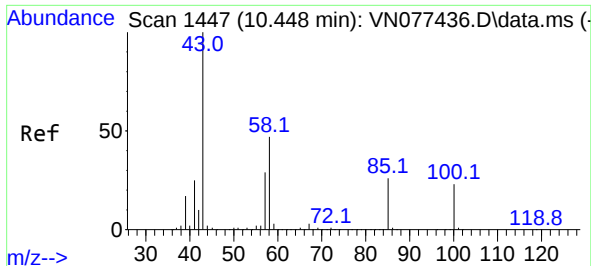
Tgt Ion: 88 Resp: 942
Ion Ratio Lower Upper
88 100
43 333172.5 17.0 25.6#
58 1723.9 47.0 70.4#



#50
Toluene-d8
Concen: 52.690 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 98 Resp: 1390724
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

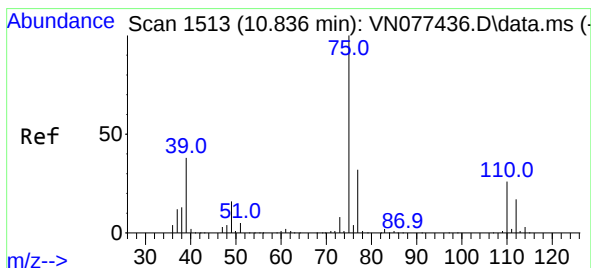
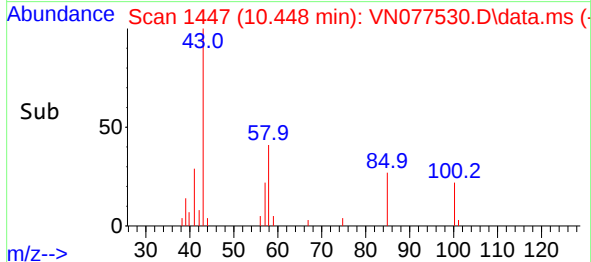
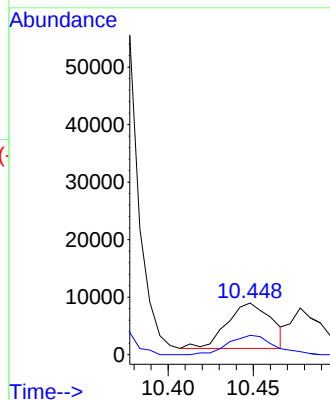
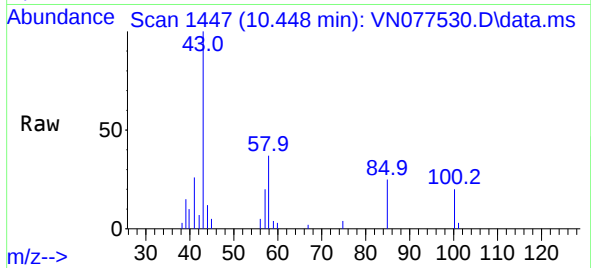




#51
4-Methyl-2-Pentanone
Concen: 1.880 ug/l
RT: 10.448 min Scan# 1442
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

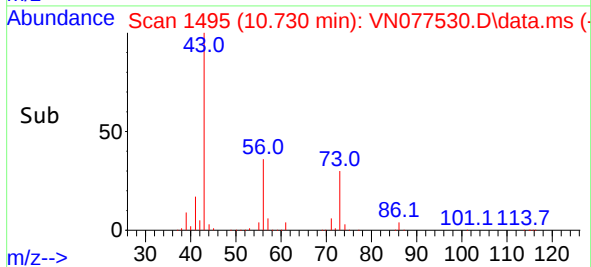
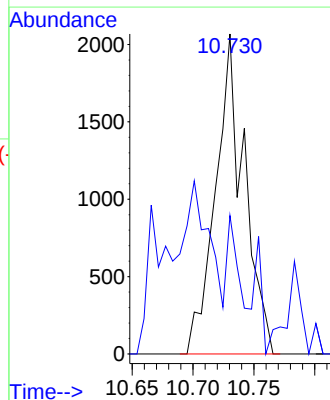
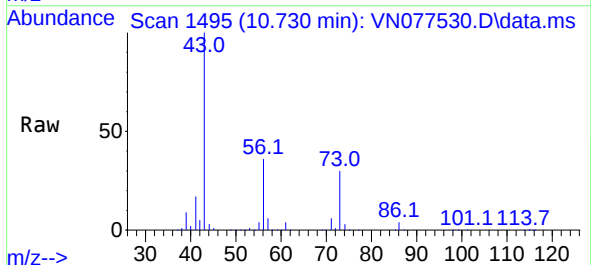
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

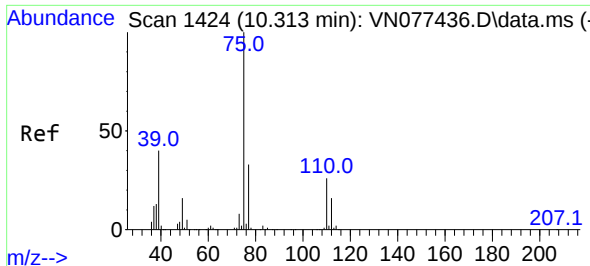
Tgt Ion: 43 Resp: 14422
Ion Ratio Lower Upper
43 100
58 43.4 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.301 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 75 Resp: 3393
Ion Ratio Lower Upper
75 100
77 34.8 25.4 38.0

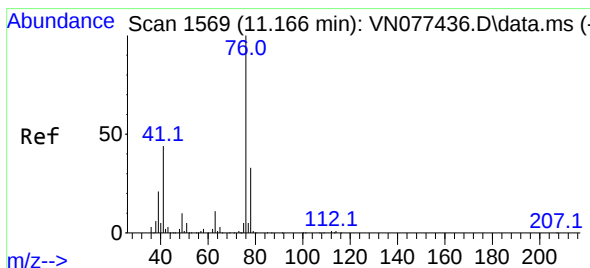
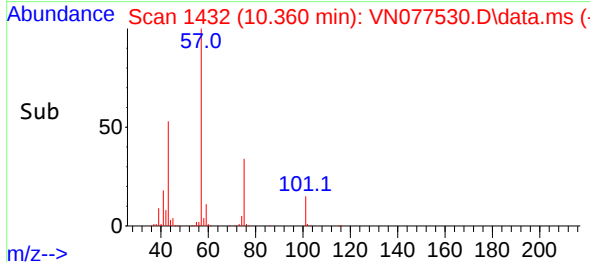
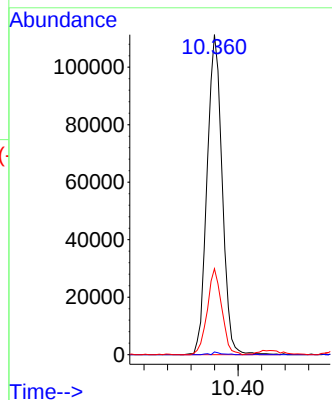
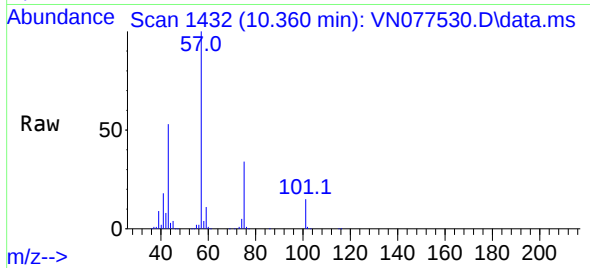




#54
cis-1,3-Dichloropropene
Concen: 16.168 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

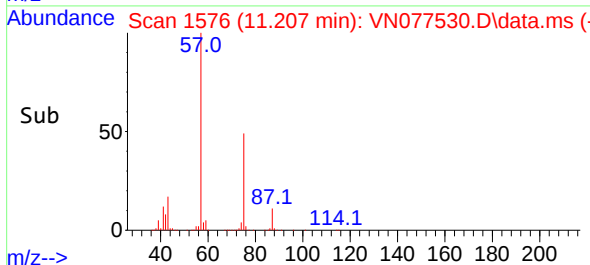
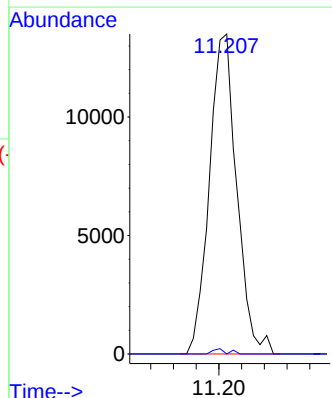
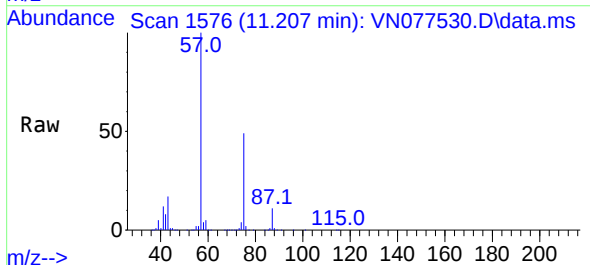
Instrument :
MSVOA_N
ClientSampleId :
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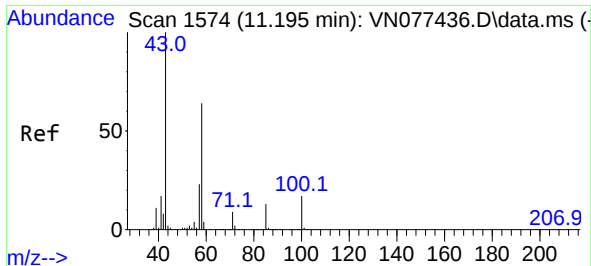
Tgt Ion: 75 Resp: 198581
Ion Ratio Lower Upper
75 100
77 0.9 26.1 39.1#
39 26.8 31.6 47.4#



#57
1,3-Dichloropropane
Concen: 1.777 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 76 Resp: 22600
Ion Ratio Lower Upper
76 100
78 0.8 26.1 39.1#

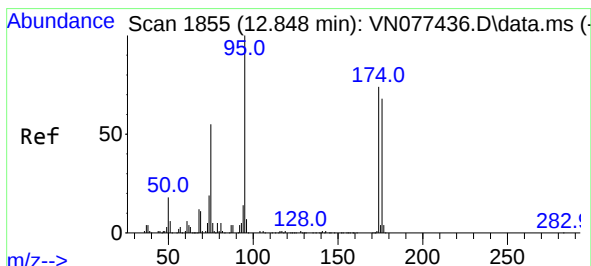
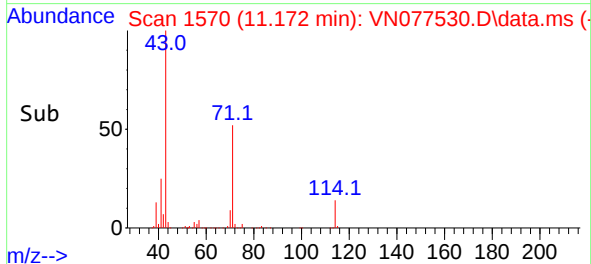
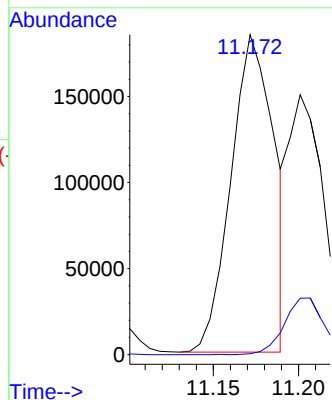
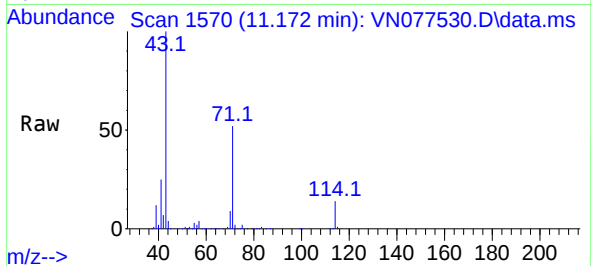




#59
2-Hexanone
Concen: 57.775 ug/l
RT: 11.172 min Scan# 11170
Delta R.T. -0.024 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

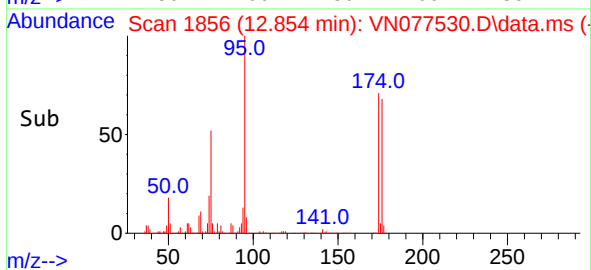
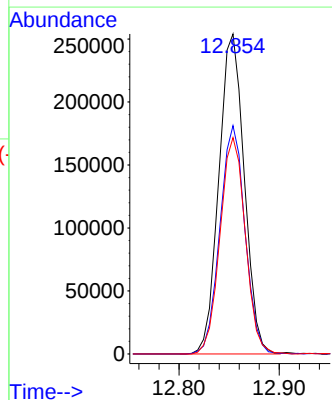
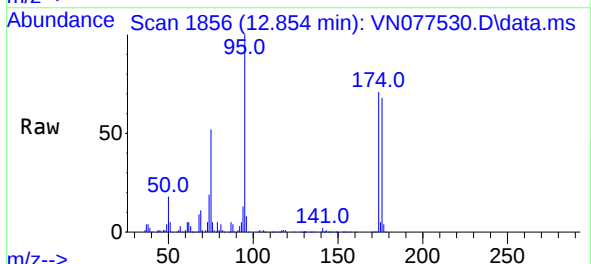
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

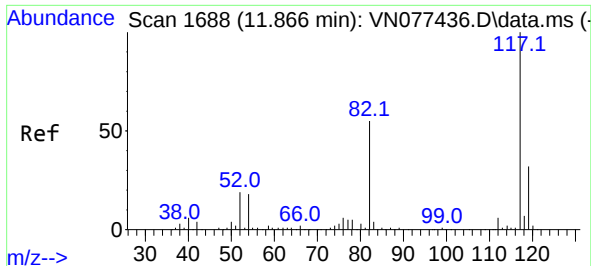
Tgt Ion: 43 Resp: 322187
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.733 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 95 Resp: 446744
Ion Ratio Lower Upper
95 100
174 70.4 0.0 143.8
176 67.0 0.0 135.8

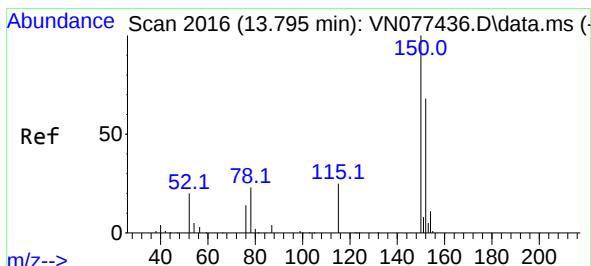
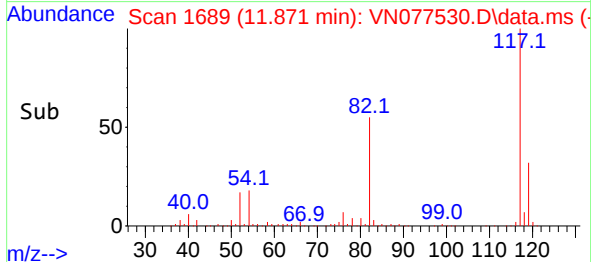
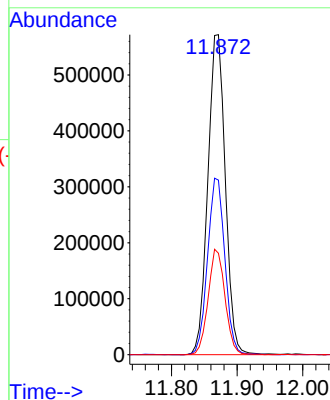
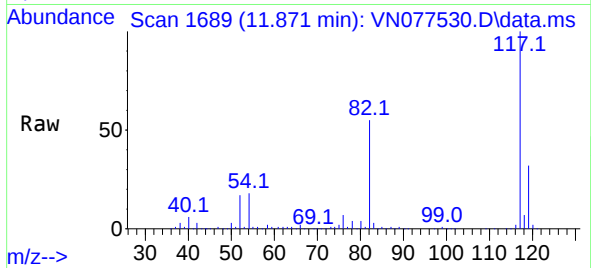




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

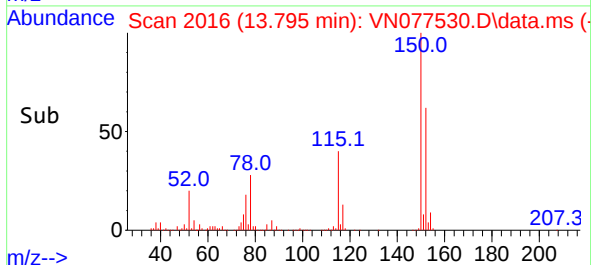
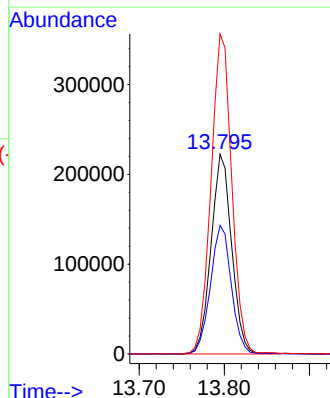
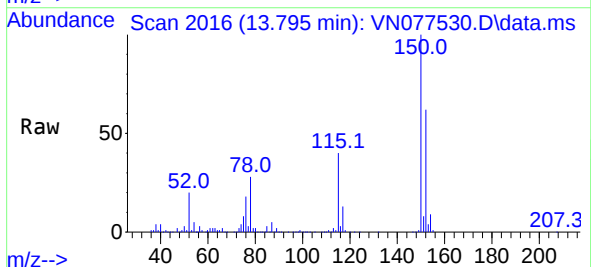
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

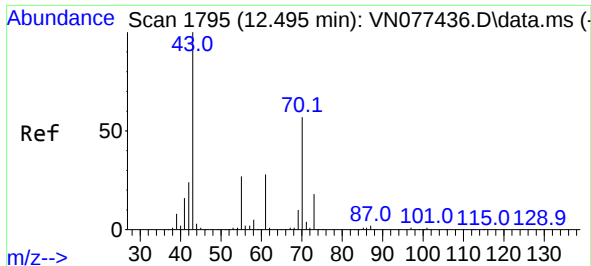
Tgt Ion:117 Resp: 1062575
Ion Ratio Lower Upper
117 100
82 54.6 44.0 66.0
119 31.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion:152 Resp: 374631
Ion Ratio Lower Upper
152 100
115 65.3 32.3 96.8
150 161.3 0.0 355.8

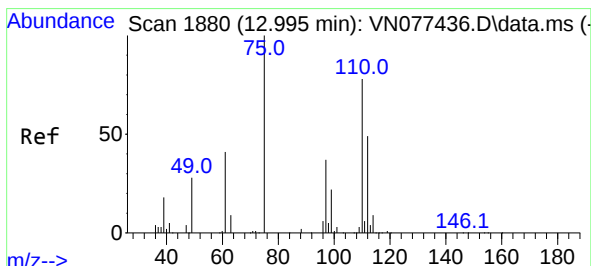
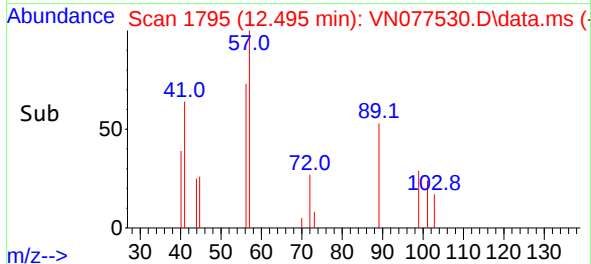
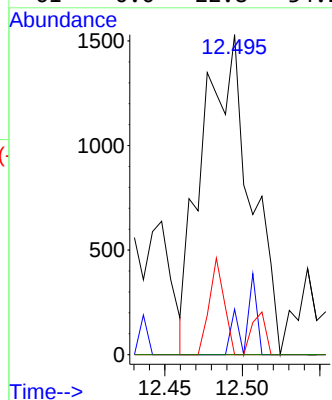
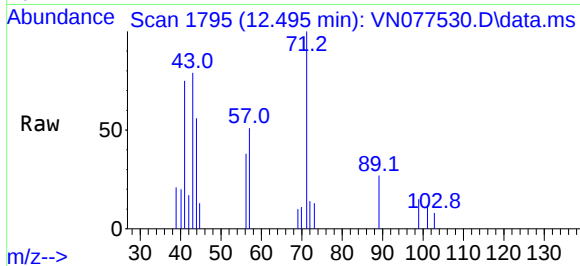




#74
N-amy1 acetate
Concen: 0.322 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

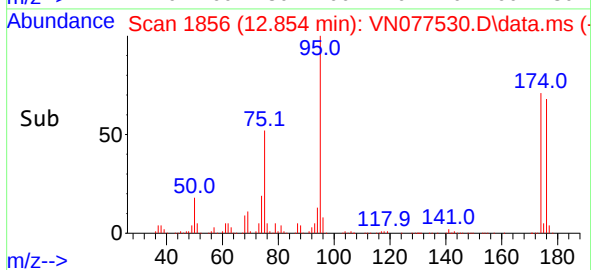
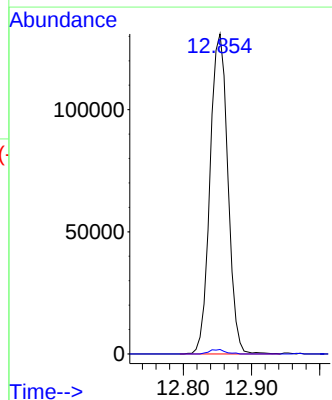
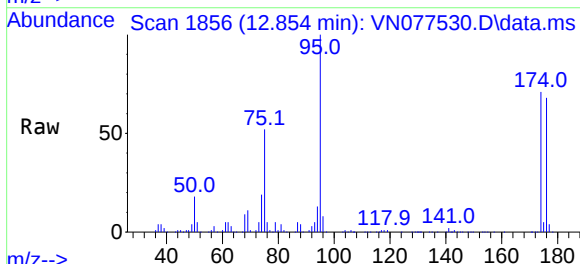
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

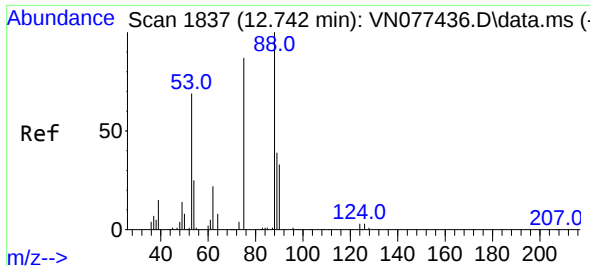
Tgt Ion: 43	Resp: 3310
Ion Ratio	Lower Upper
43 100	
70 6.4	43.4 65.2#
55 0.0	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 27.362 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 75	Resp: 238365
Ion Ratio	Lower Upper
75 100	
77 1.3	84.5 253.5#

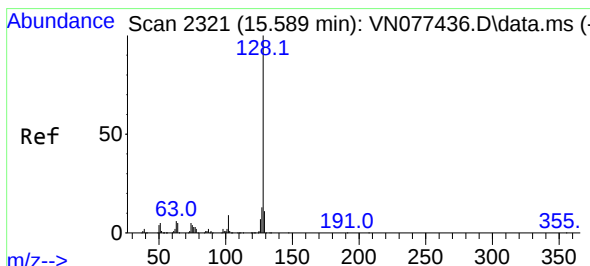
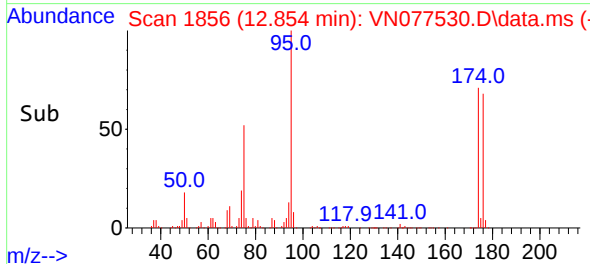
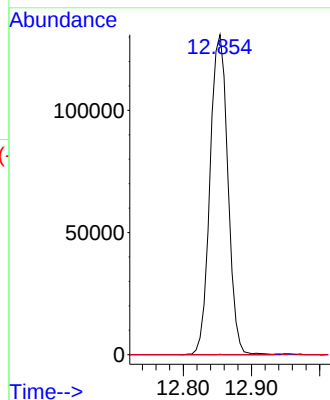
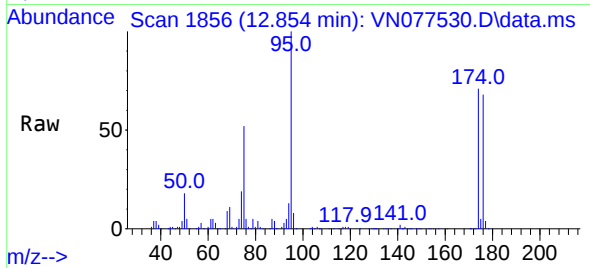




#81
trans-1,4-Dichloro-2-butene
Concen: 77.301 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-01

Tgt Ion: 75 Resp: 238365
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 1.146 ug/l
RT: 15.612 min Scan# 2325
Delta R.T. 0.023 min
Lab File: VN077530.D
Acq: 29 Apr 2023 19:42

Tgt Ion: 128 Resp: 54
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

