

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077645.D
 Acq On : 09 May 2023 20:33
 Operator : JC\MD
 Sample : 02665-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-612-VOC-01

Quant Time: May 10 04:52:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

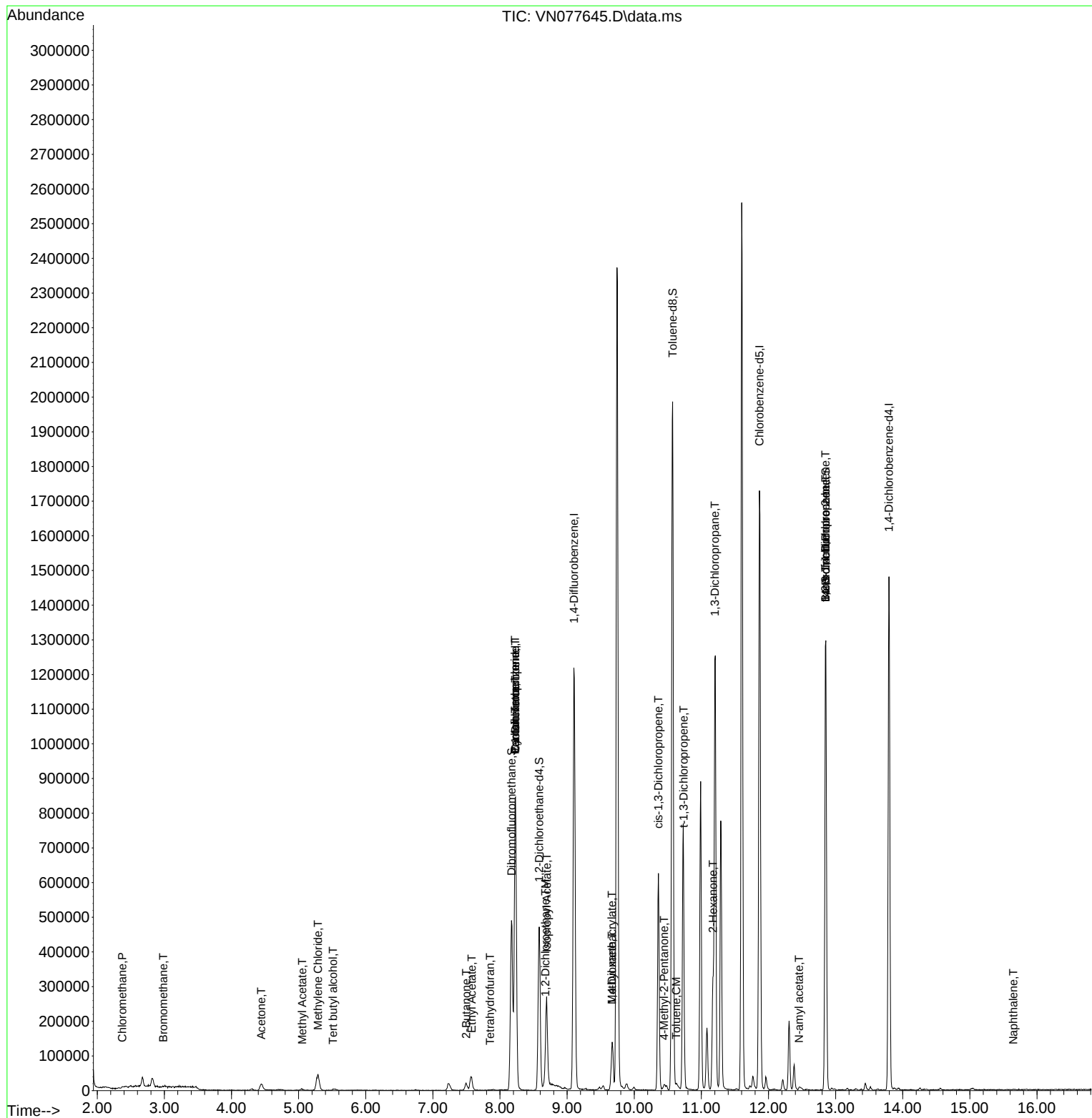
Internal Standards						
1) Pentafluorobenzene	8.225	168	643956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.101	114	1146354	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1122408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	416751	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	389259	47.663	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.320%		
35) Dibromofluoromethane	8.172	113	350278	48.993	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.980%		
50) Toluene-d8	10.572	98	1479718	54.666	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	109.340%		
62) 4-Bromofluorobenzene	12.854	95	481794	52.625	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	105.260%		
Target Compounds						Qvalue
3) Chloromethane	2.372	50	1425	0.220	ug/l	93
5) Bromomethane	2.984	94	1980	0.290	ug/l #	62
11) Tert butyl alcohol	5.513	59	3719	3.871	ug/l #	90
16) Acetone	4.443	43	34227	17.648	ug/l	89
18) Methyl Acetate	5.054	43	7387	0.961	ug/l #	83
20) Methylene Chloride	5.290	84	41242	5.132	ug/l	94
25) 2-Butanone	7.495	43	28776	10.152	ug/l	89
29) Tetrahydrofuran	7.854	42	805	0.462	ug/l #	38
31) Cyclohexane	8.231	56	12787	1.225	ug/l #	10
36) 1,1-Dichloropropene	8.231	75	49401	5.007	ug/l #	49
37) Ethyl Acetate	7.578	43	55813	9.893	ug/l	94
38) Carbon Tetrachloride	8.225	117	67789	6.289	ug/l #	15
42) 1,2-Dichloroethane	8.678	62	2192	0.219	ug/l #	73
43) Isopropyl Acetate	8.695	43	299139	30.242	ug/l #	87
48) Methyl methacrylate	9.666	41	8089	1.742	ug/l #	32
49) 1,4-Dioxane	9.666	88	255	1.847	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	9613	1.652	ug/l	95
52) Toluene	10.625	92	6206	0.313	ug/l	94
53) t-1,3-Dichloropropene	10.736	75	2901	0.286	ug/l #	70
54) cis-1,3-Dichloropropene	10.360	75	131786	11.401	ug/l #	61
57) 1,3-Dichloropropane	11.201	76	16157	1.306	ug/l #	42
59) 2-Hexanone	11.172	43	218864	53.215	ug/l #	19
71) Bromoform	12.848	173	2520	0.500	ug/l #	1
74) N-amyl acetate	12.454	43	5256	0.641	ug/l #	39
76) 1,2,3-Trichloropropane	12.848	75	250744	29.155	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	250744	92.834	ug/l #	15
95) Naphthalene	15.648	128	829	4.774	ug/l #	79

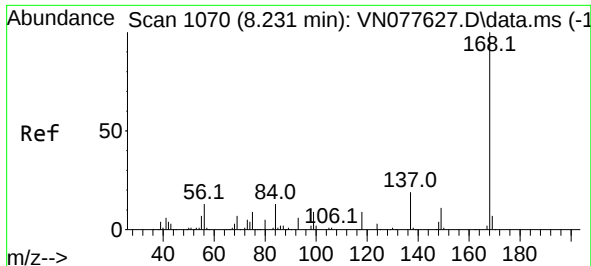
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
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Quant Title : SW846 8260
QLast Update : Tue May 09 13:52:31 2023
Response via : Initial Calibration

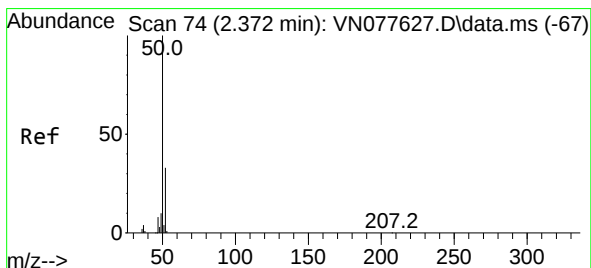
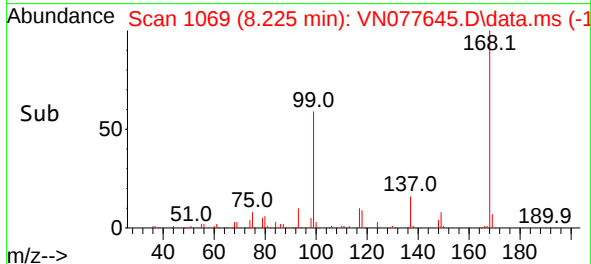
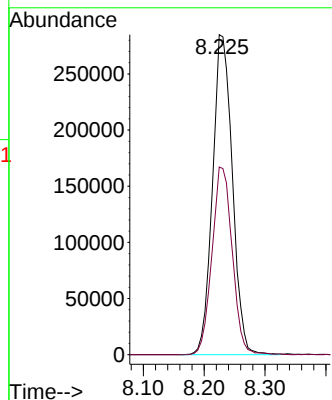
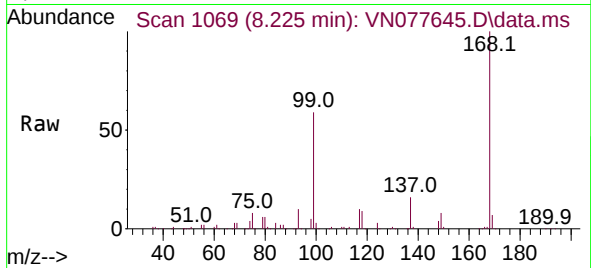




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.225 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

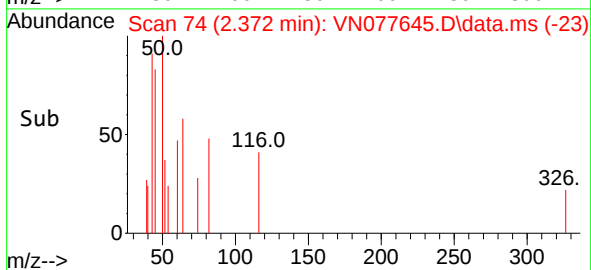
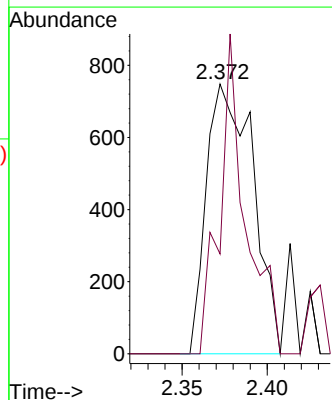
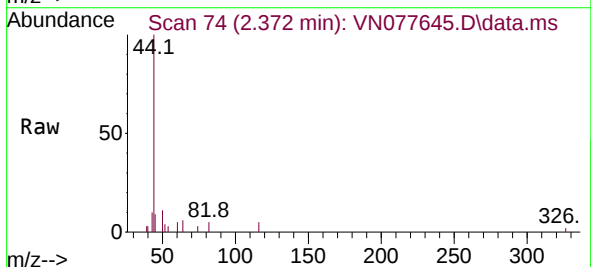
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

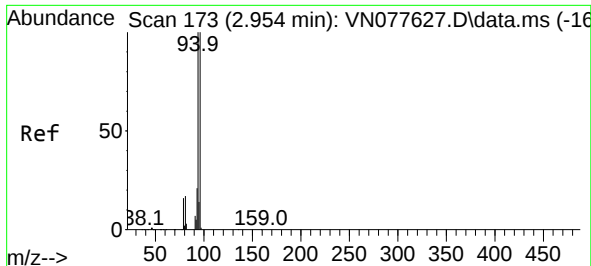
Tgt Ion:168 Resp: 643956
Ion Ratio Lower Upper
168 100
99 58.6 53.0 79.6



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 50 Resp: 1425
Ion Ratio Lower Upper
50 100
52 37.0 26.5 39.7

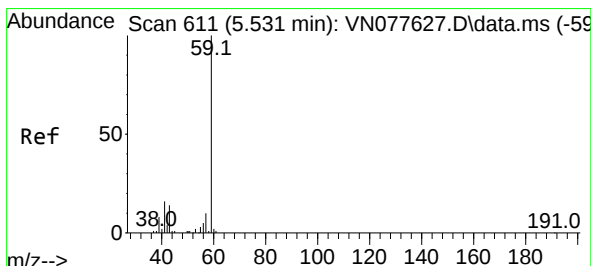
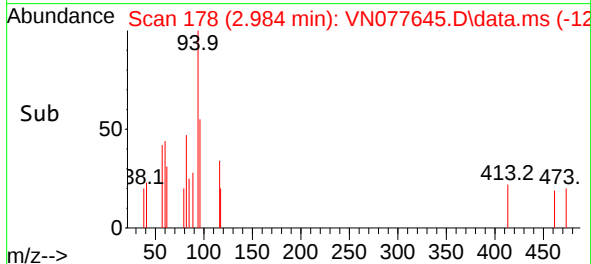
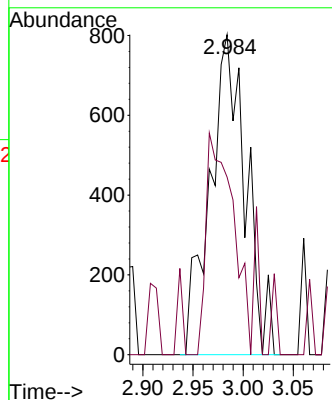
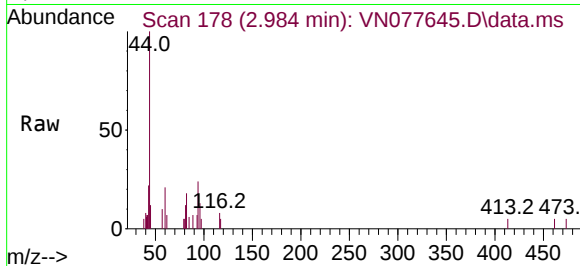




#5
Bromomethane
Concen: 0.290 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

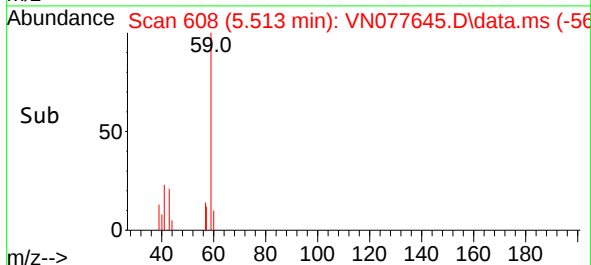
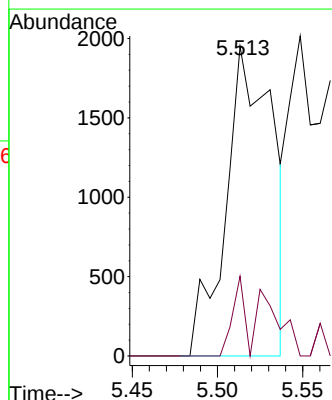
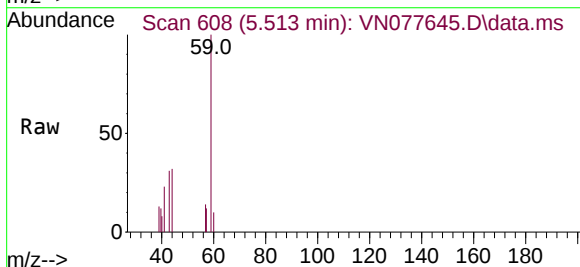
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

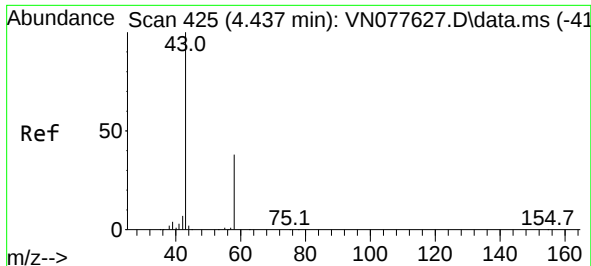
Tgt Ion: 94 Resp: 1980
Ion Ratio Lower Upper
94 100
96 55.5 73.1 109.7#



#11
Tert butyl alcohol
Concen: 3.871 ug/l
RT: 5.513 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 59 Resp: 3719
Ion Ratio Lower Upper
59 100
57 6.5 8.2 12.4#

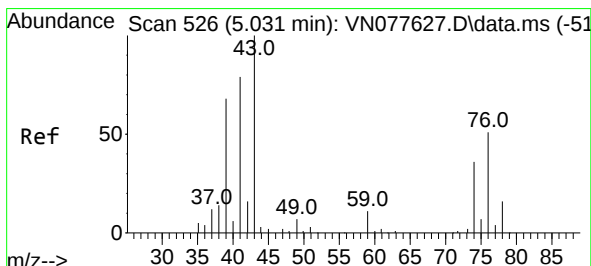
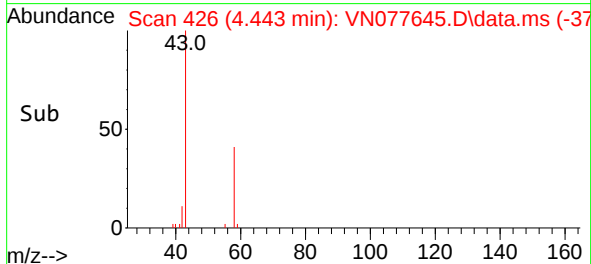
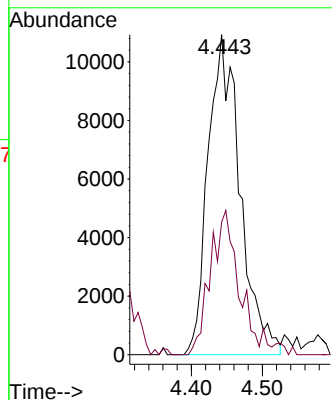
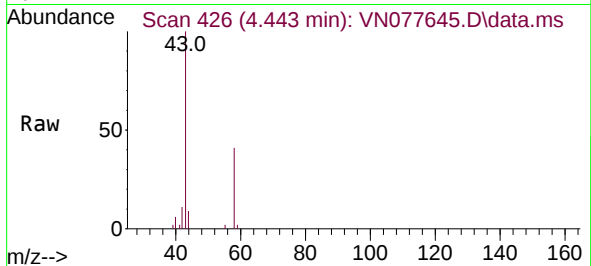




#16
Acetone
Concen: 17.648 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

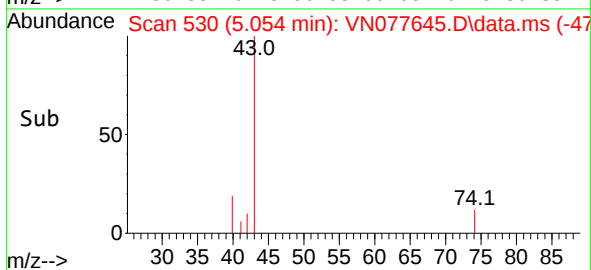
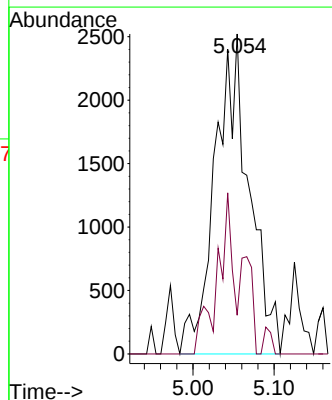
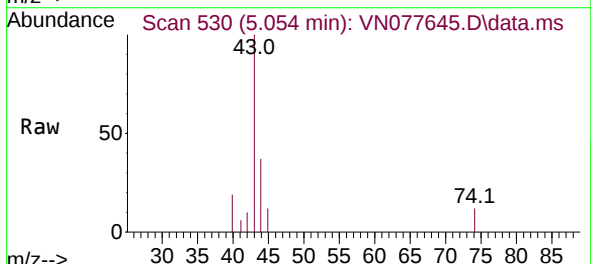
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

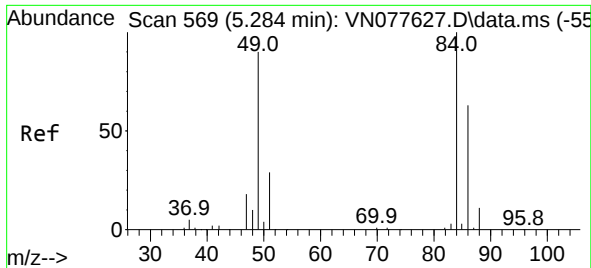
Tgt Ion: 43 Resp: 34227
Ion Ratio Lower Upper
43 100
58 41.5 28.0 42.0



#18
Methyl Acetate
Concen: 0.961 ug/l
RT: 5.054 min Scan# 530
Delta R.T. 0.023 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 43 Resp: 7387
Ion Ratio Lower Upper
43 100
74 23.0 26.2 39.4#

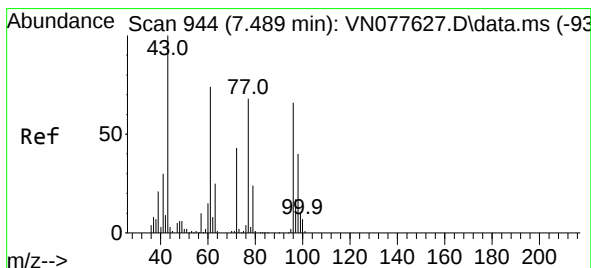
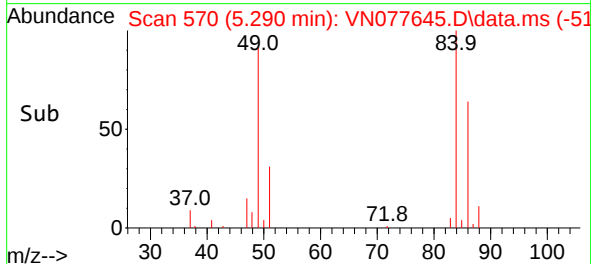
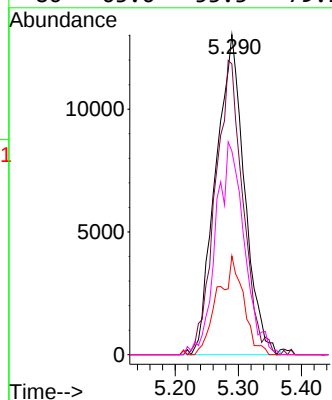
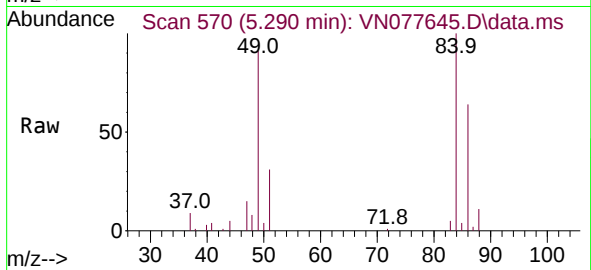




#20
Methylene Chloride
Concen: 5.132 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

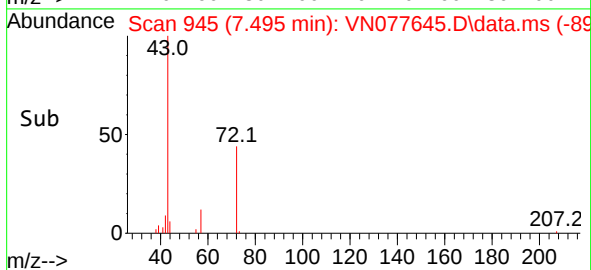
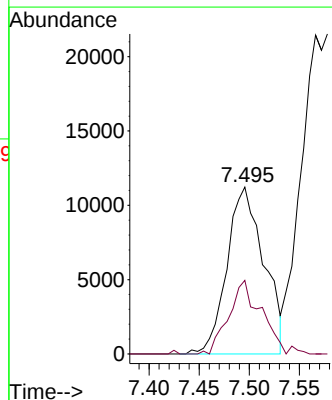
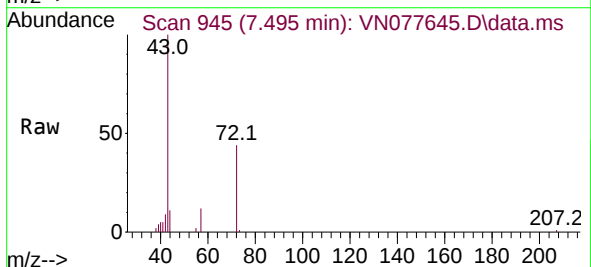
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

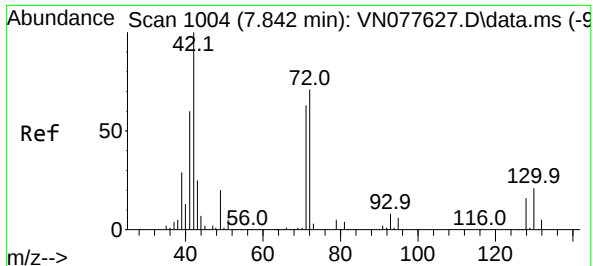
Tgt Ion: 84	Resp: 41242
Ion Ratio	Lower Upper
84 100	
49 90.9	79.7 119.5
51 30.9	25.2 37.8
86 63.6	53.3 79.9



#25
2-Butanone
Concen: 10.152 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 43	Resp: 28776
Ion Ratio	Lower Upper
43 100	
72 44.1	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.462 ug/l

RT: 7.854 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

TR-612-VOC-01

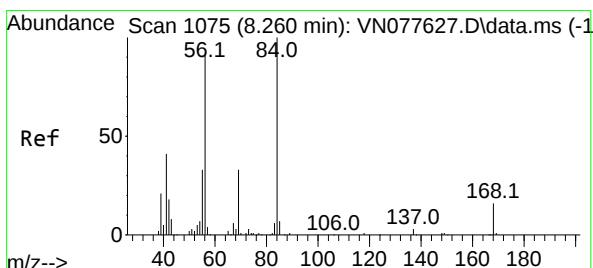
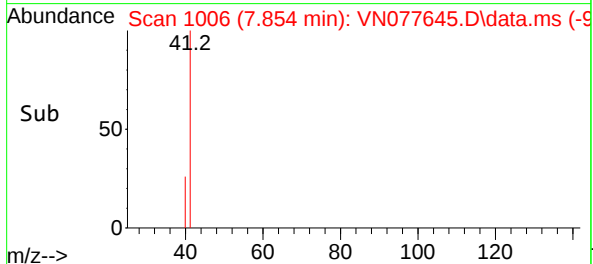
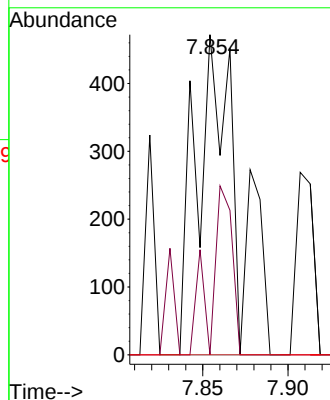
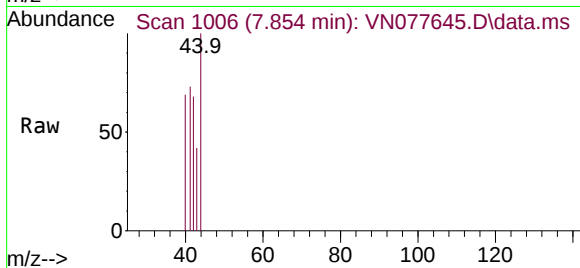
Tgt Ion: 42 Resp: 805

Ion Ratio Lower Upper

42 100

72 27.1 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.225 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.029 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

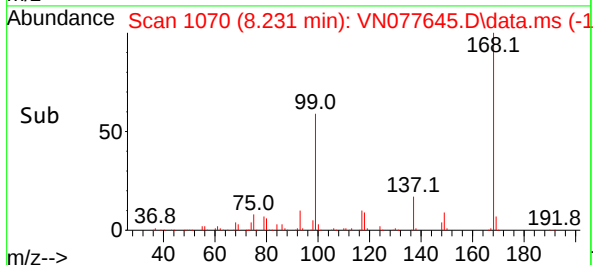
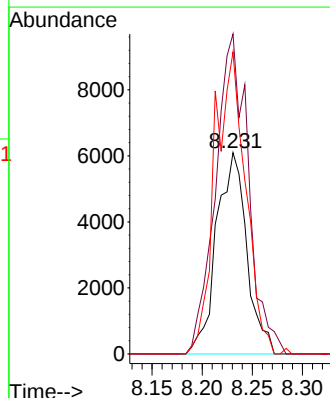
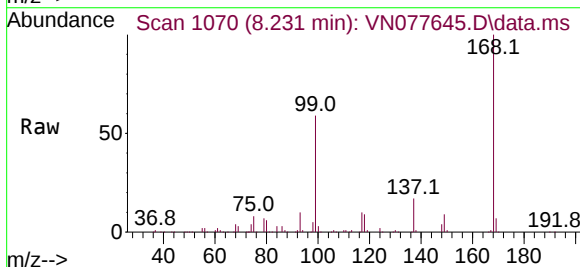
Tgt Ion: 56 Resp: 12787

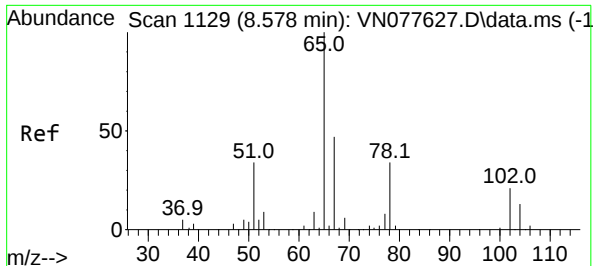
Ion Ratio Lower Upper

56 100

69 158.9 26.8 40.2#

84 150.0 81.8 122.6#

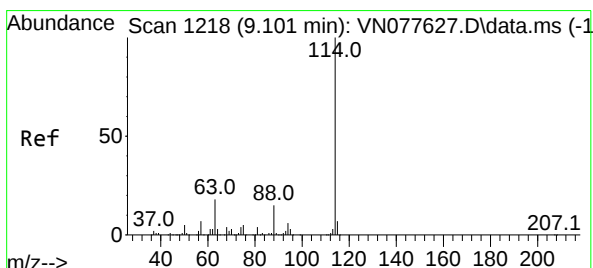
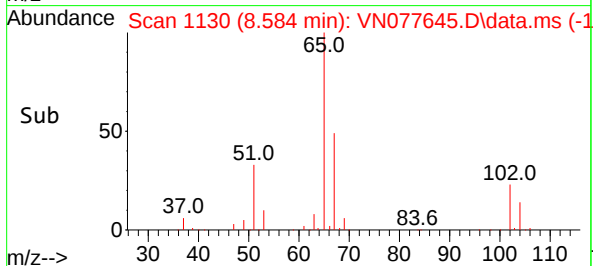
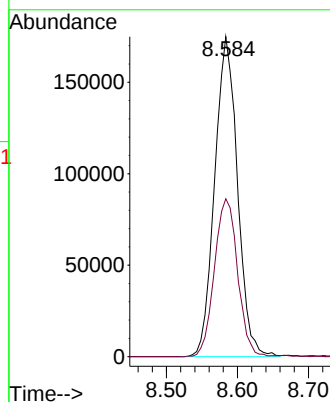
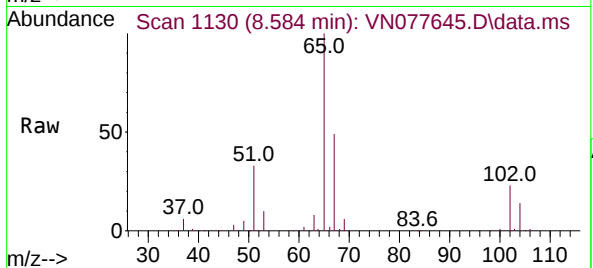




#33
1,2-Dichloroethane-d4
Concen: 47.663 ug/l
RT: 8.584 min Scan# 1129
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

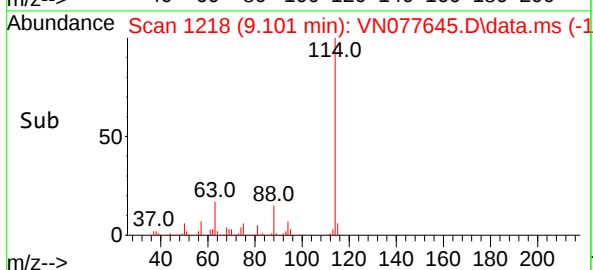
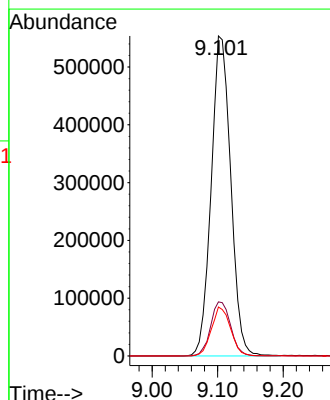
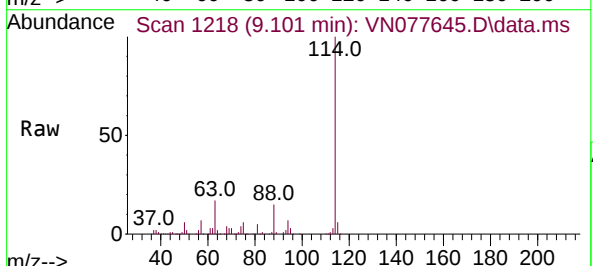
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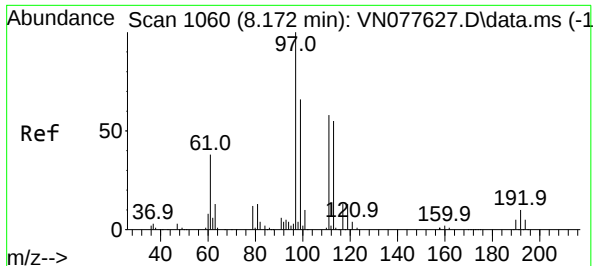
Tgt Ion: 65 Resp: 389259
Ion Ratio Lower Upper
65 100
67 50.2 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.101 min Scan# 1218
Delta R.T. 0.000 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 114 Resp: 1146354
Ion Ratio Lower Upper
114 100
63 16.9 0.0 36.4
88 15.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.993 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

TR-612-VOC-01

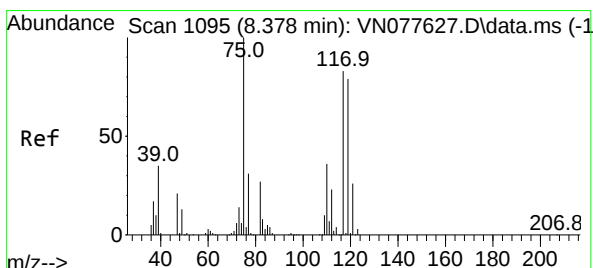
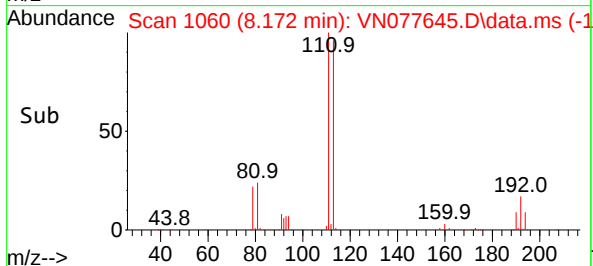
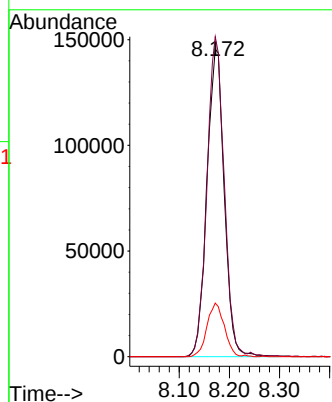
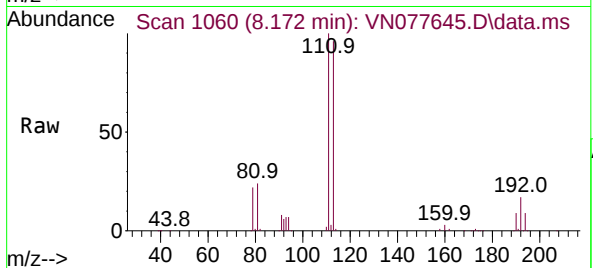
Tgt Ion:113 Resp: 350278

Ion Ratio Lower Upper

113 100

111 102.8 82.6 123.8

192 17.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.007 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

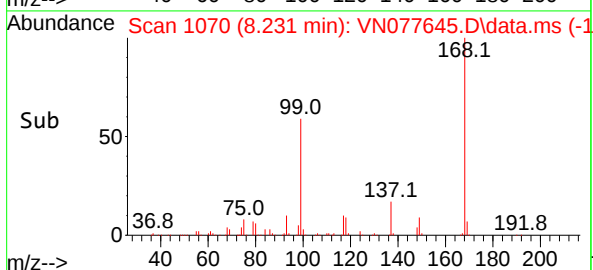
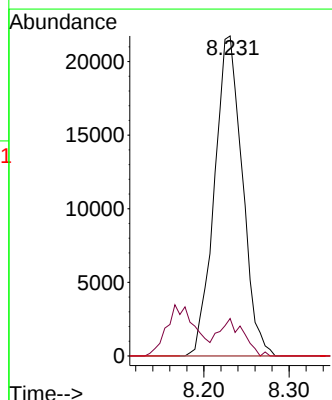
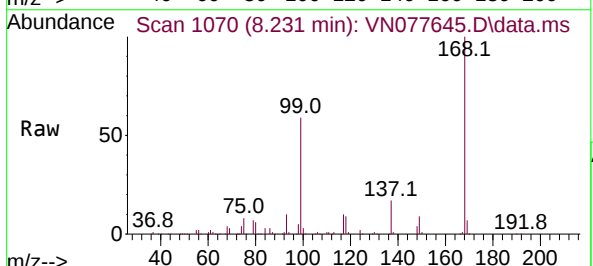
Tgt Ion: 75 Resp: 49401

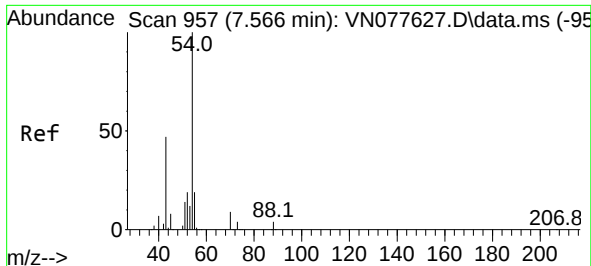
Ion Ratio Lower Upper

75 100

110 10.4 19.1 57.3#

77 0.0 25.0 37.4#

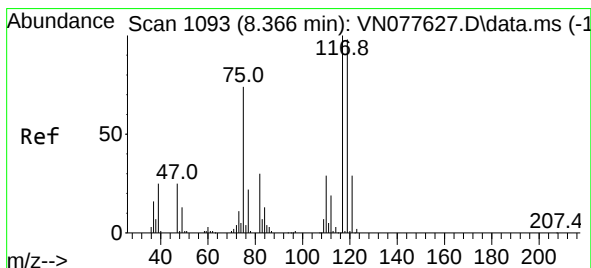
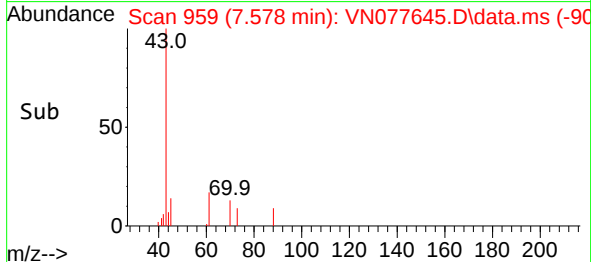
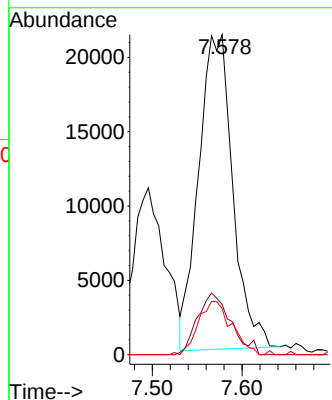
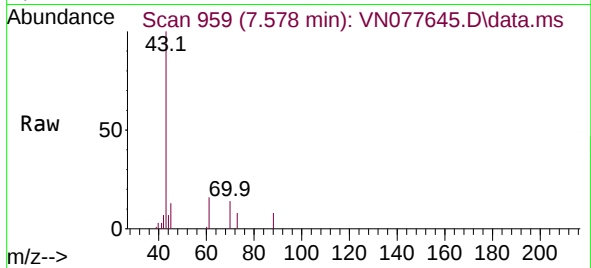




#37
Ethyl Acetate
Concen: 9.893 ug/l
RT: 7.578 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

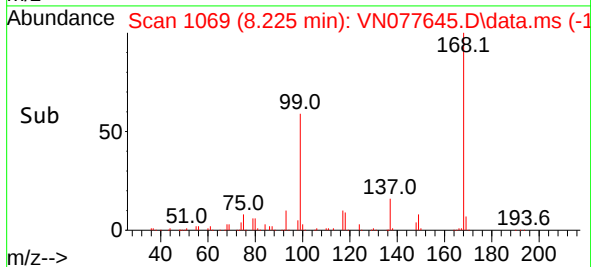
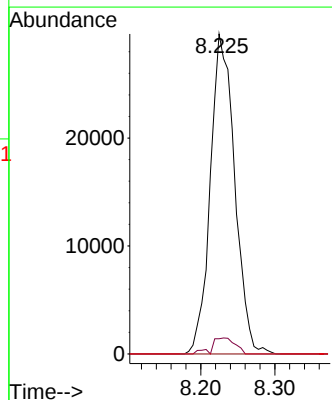
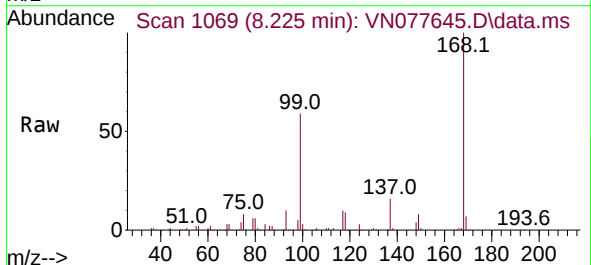
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

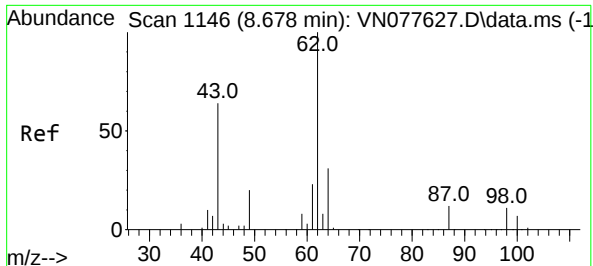
Tgt Ion: 43 Resp: 55813
Ion Ratio Lower Upper
43 100
61 19.1 13.2 19.8
70 16.5 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.289 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.141 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 117 Resp: 67789
Ion Ratio Lower Upper
117 100
119 4.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.219 ug/l

RT: 8.678 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

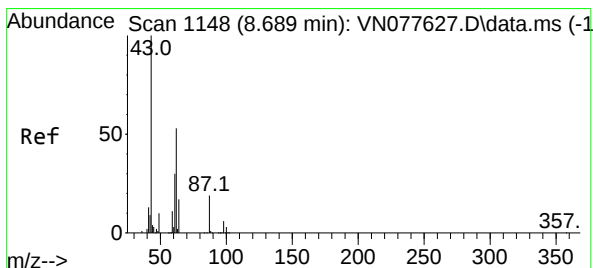
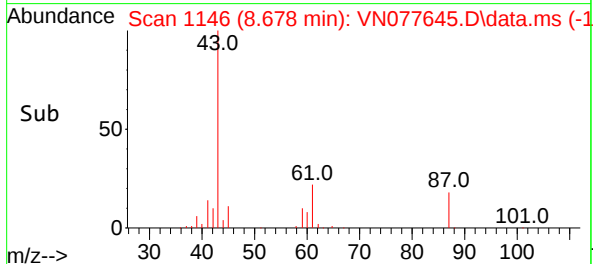
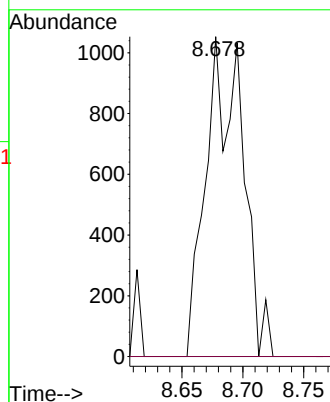
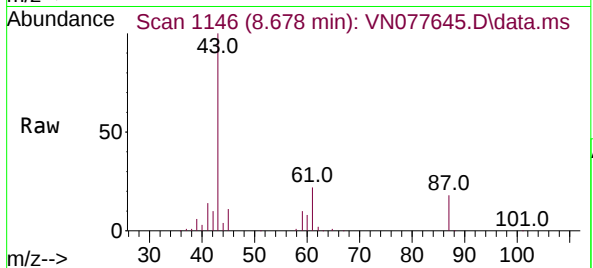
TR-612-VOC-01

Tgt Ion: 62 Resp: 2192

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 30.242 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.006 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

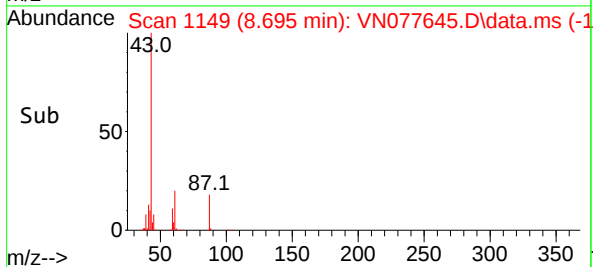
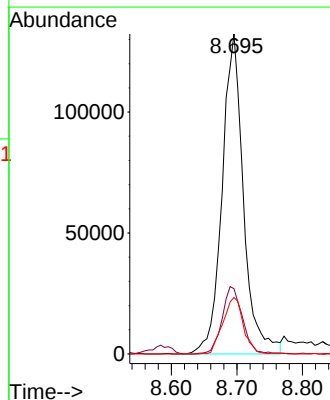
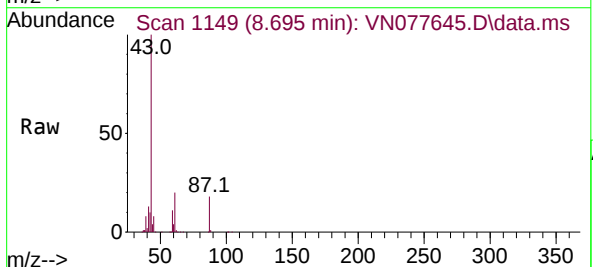
Tgt Ion: 43 Resp: 299139

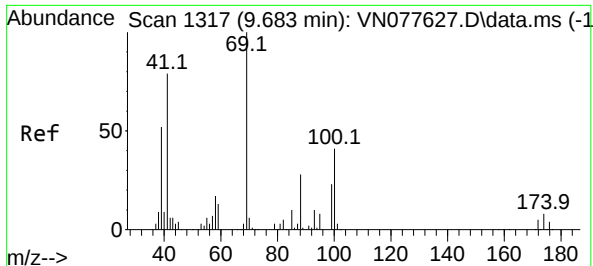
Ion Ratio Lower Upper

43 100

61 20.1 24.7 37.1#

87 16.9 14.6 21.8

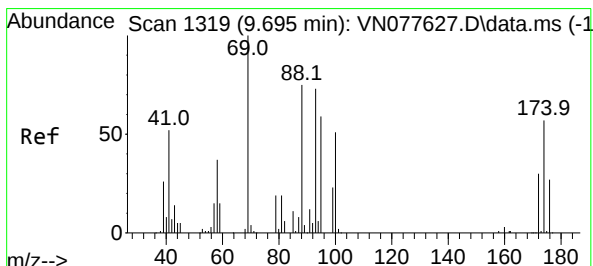
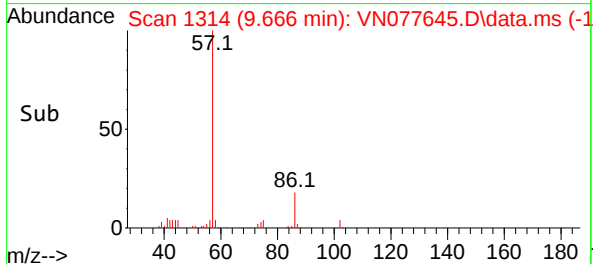
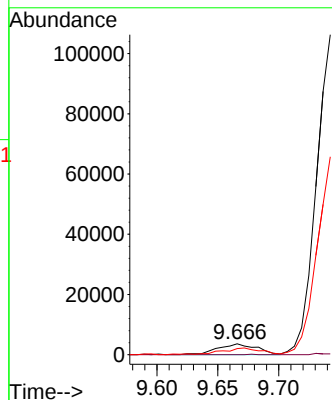
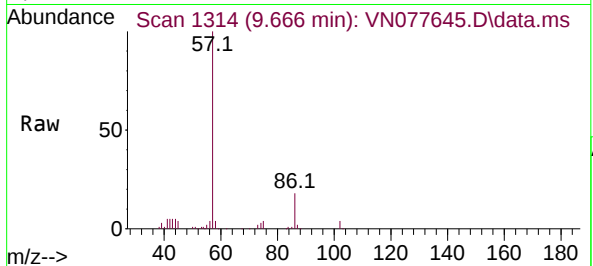




#48
Methyl methacrylate
Concen: 1.742 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

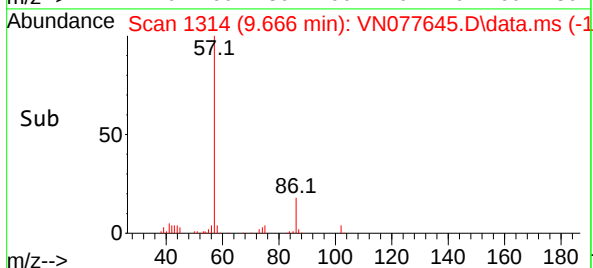
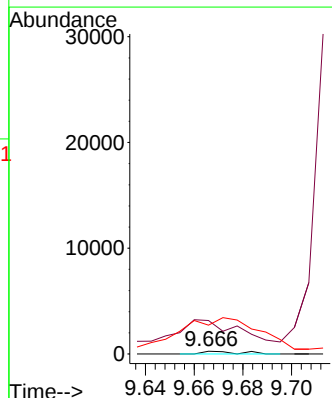
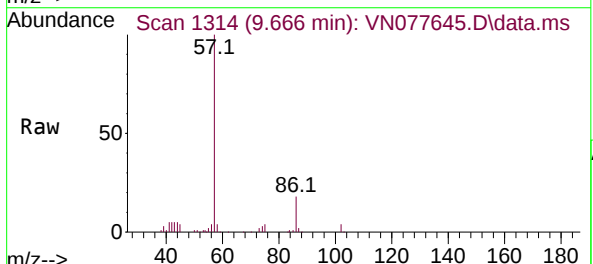
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

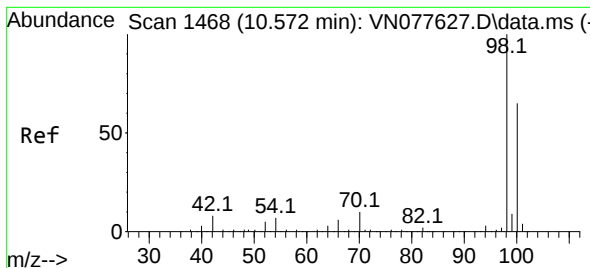
Tgt Ion: 41 Resp: 8089
Ion Ratio Lower Upper
41 100
69 0.7 90.4 135.6#
39 62.6 54.6 81.8



#49
1,4-Dioxane
Concen: 1.847 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.029 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 88 Resp: 255
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 3419.2 47.0 70.4#





#50

Toluene-d8

Concen: 54.666 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

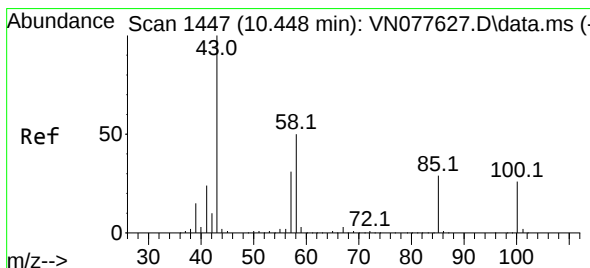
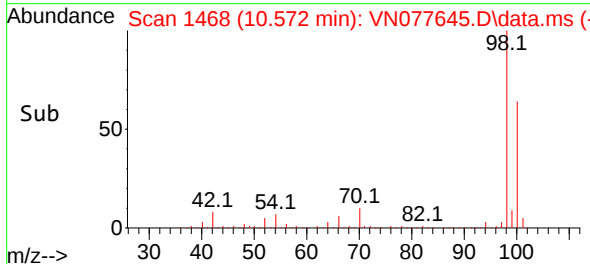
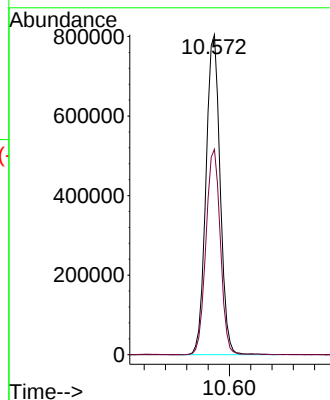
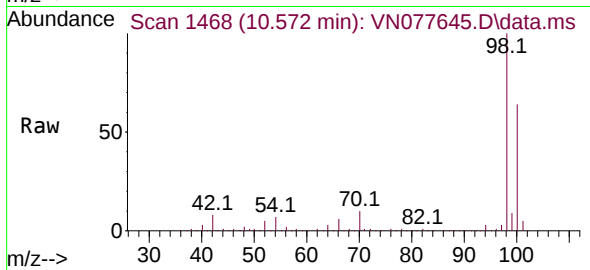
TR-612-VOC-01

Tgt Ion: 98 Resp: 1479718

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 1.652 ug/l

RT: 10.442 min Scan# 1446

Delta R.T. -0.006 min

Lab File: VN077645.D

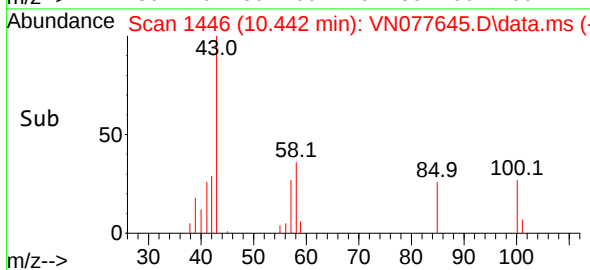
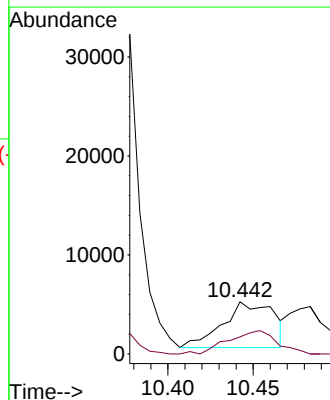
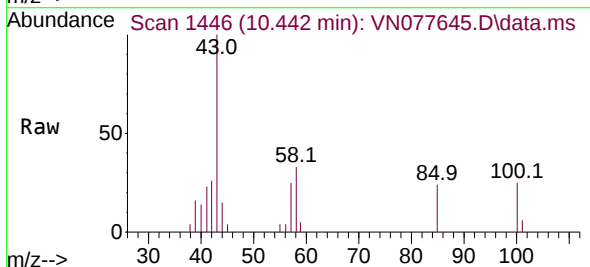
Acq: 09 May 2023 20:33

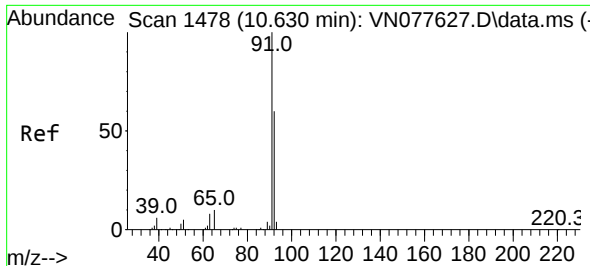
Tgt Ion: 43 Resp: 9613

Ion Ratio Lower Upper

43 100

58 48.8 36.6 54.8





#52

Toluene

Concen: 0.313 ug/l

RT: 10.625 min Scan# 14

Delta R.T. -0.005 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

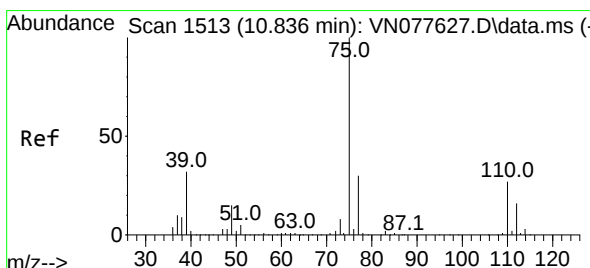
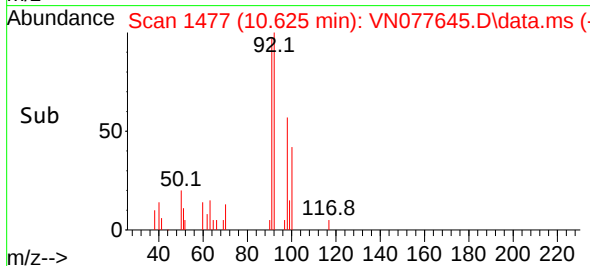
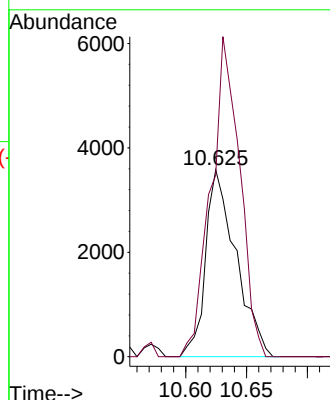
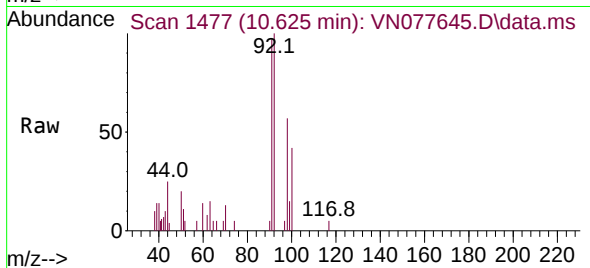
TR-612-VOC-01

Tgt Ion: 92 Resp: 6206

Ion Ratio Lower Upper

92 100

91 163.0 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 0.286 ug/l

RT: 10.736 min Scan# 1496

Delta R.T. -0.100 min

Lab File: VN077645.D

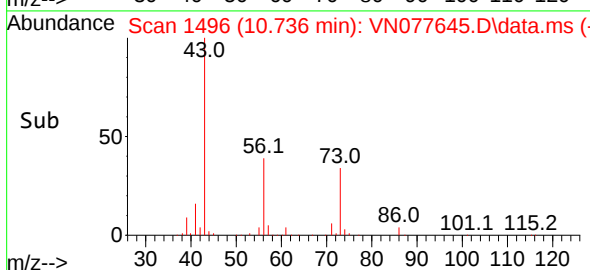
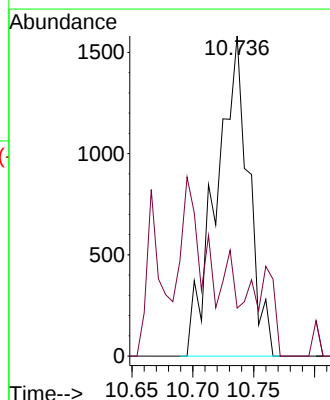
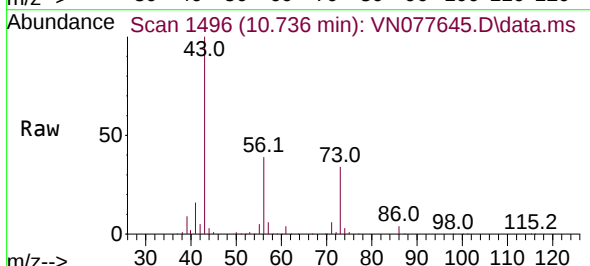
Acq: 09 May 2023 20:33

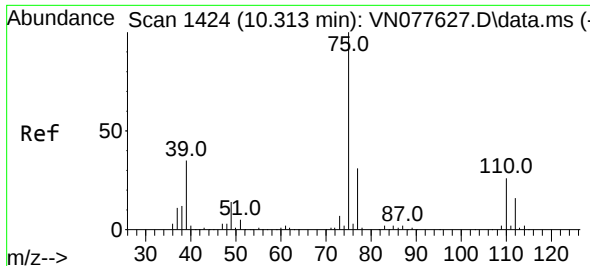
Tgt Ion: 75 Resp: 2901

Ion Ratio Lower Upper

75 100

77 15.0 25.4 38.0#

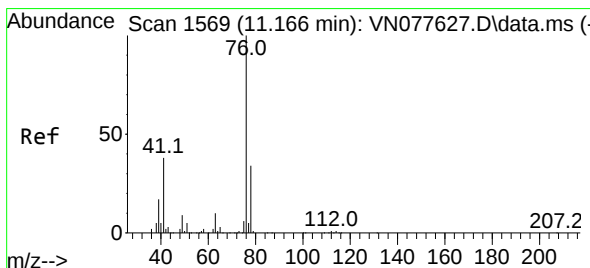
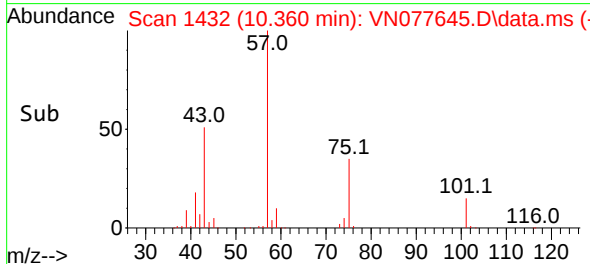
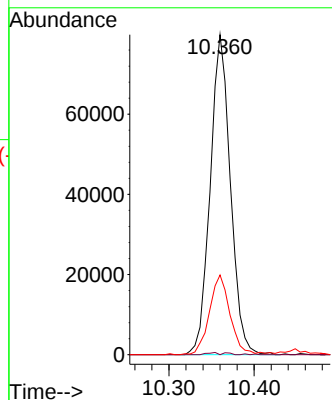
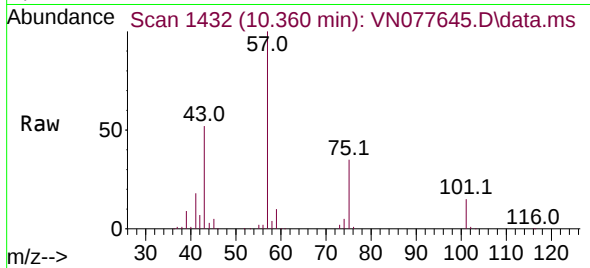




#54
cis-1,3-Dichloropropene
Concen: 11.401 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

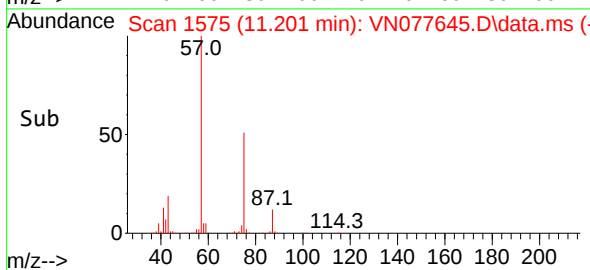
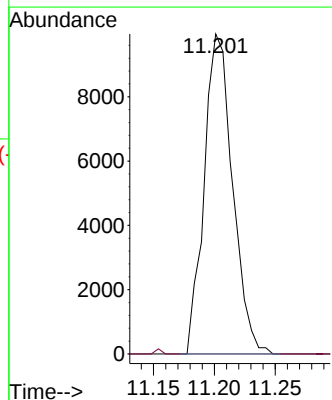
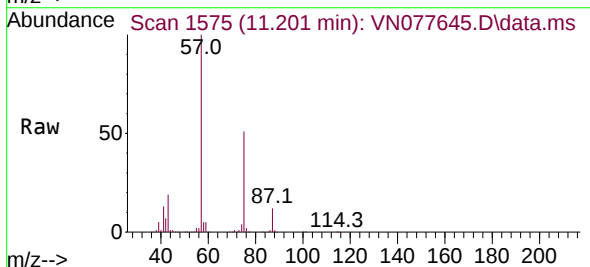
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

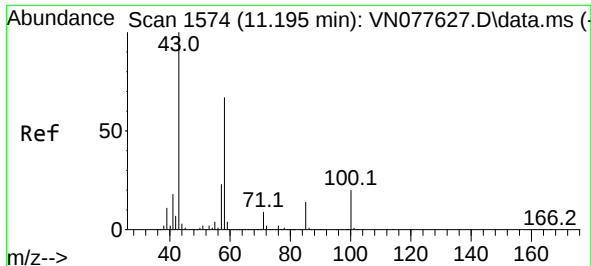
Tgt Ion: 75 Resp: 131786
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 24.9 31.6 47.4#



#57
1,3-Dichloropropane
Concen: 1.306 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 76 Resp: 16157
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

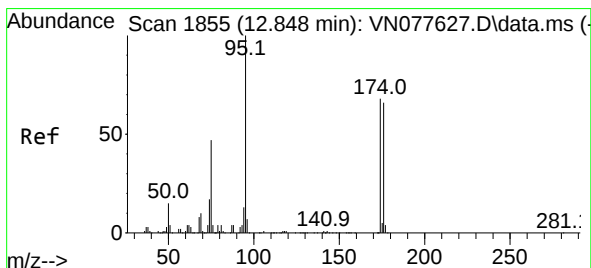
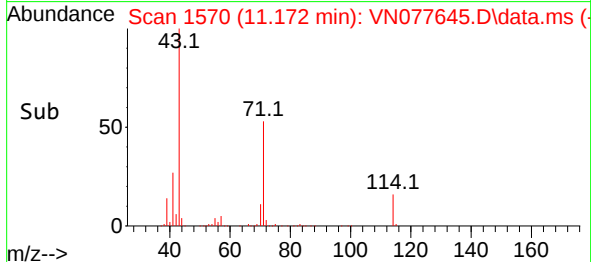
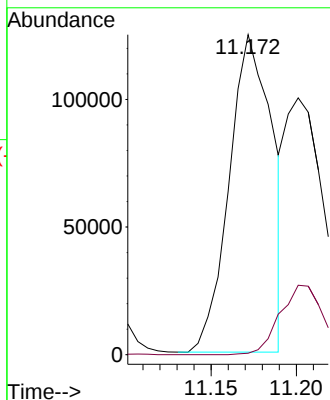
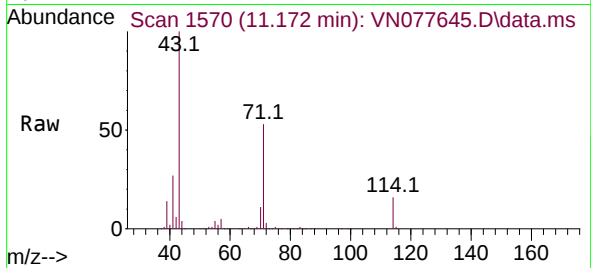




#59
2-Hexanone
Concen: 53.215 ug/l
RT: 11.172 min Scan# 111
Delta R.T. -0.023 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

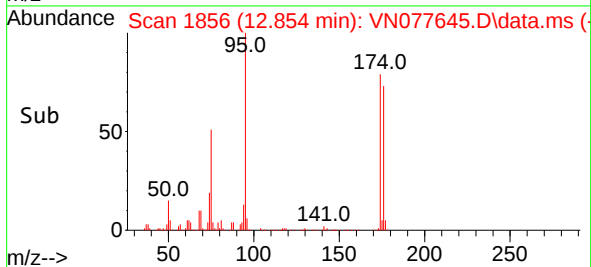
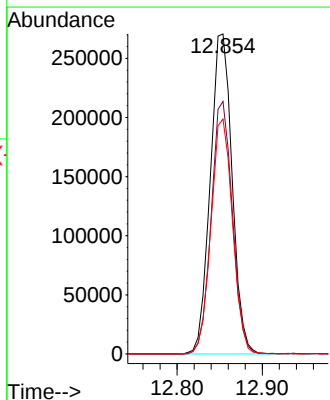
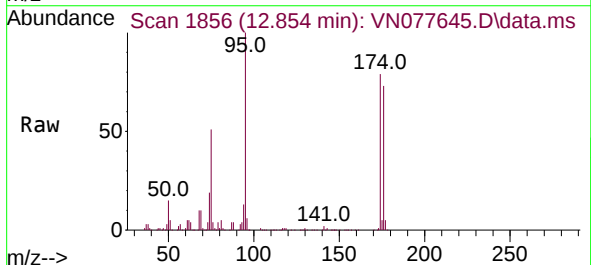
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

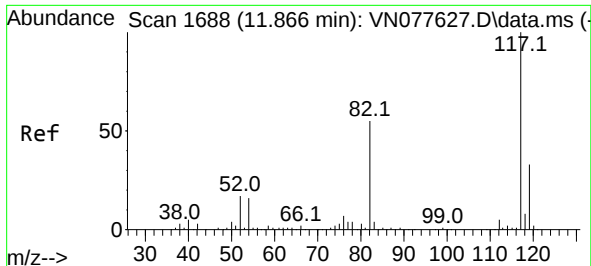
Tgt Ion: 43 Resp: 218864
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.625 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion: 95 Resp: 481794
Ion Ratio Lower Upper
95 100
174 76.6 0.0 143.8
176 72.5 0.0 135.8

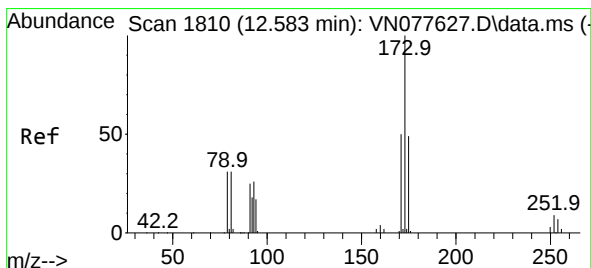
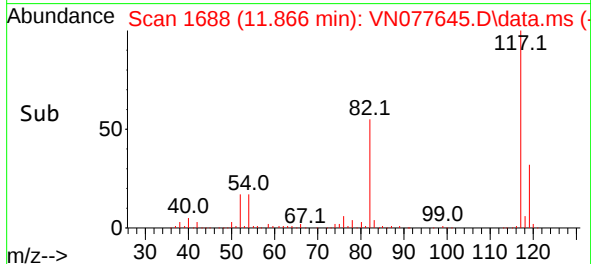
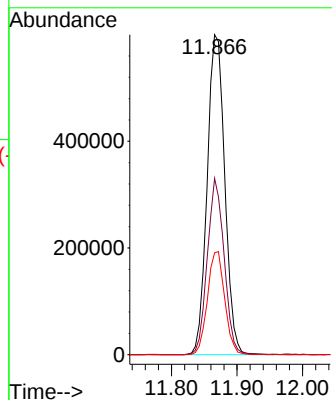
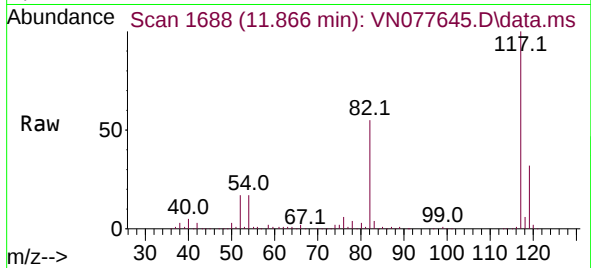




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

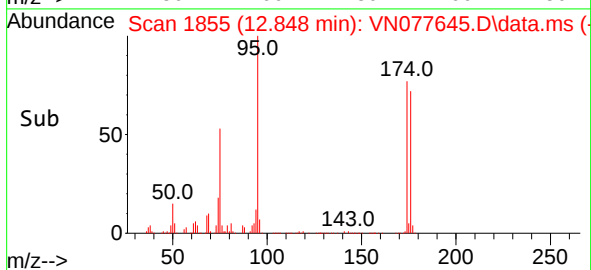
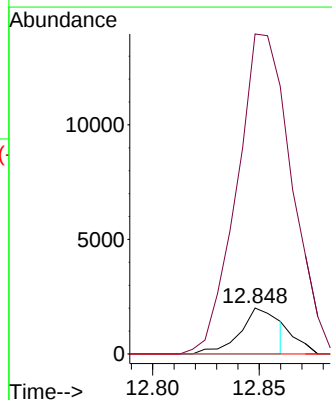
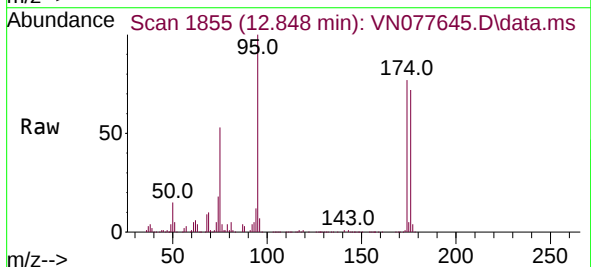
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

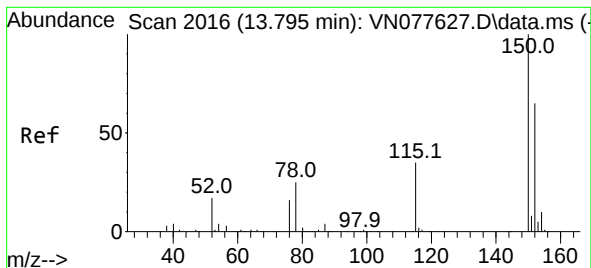
Tgt Ion:117 Resp: 1122408
Ion Ratio Lower Upper
117 100
82 55.1 44.0 66.0
119 31.9 25.6 38.4



#71
Bromoform
Concen: 0.500 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Tgt Ion:173 Resp: 2520
Ion Ratio Lower Upper
173 100
175 803.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Instrument :

MSVOA_N

ClientSampleId :

TR-612-VOC-01

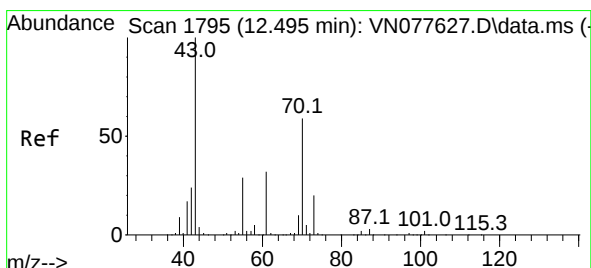
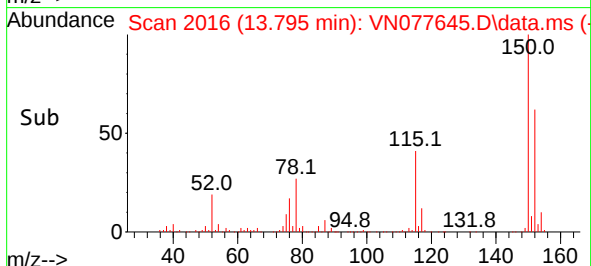
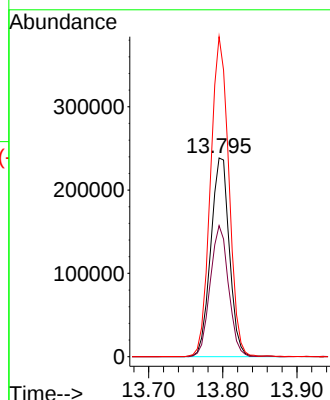
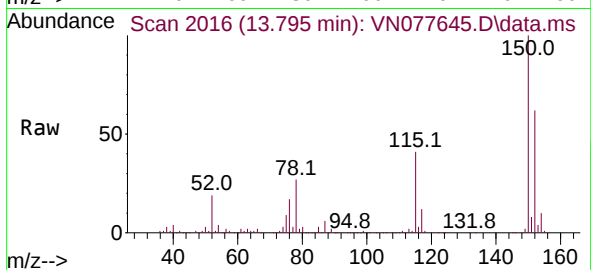
Tgt Ion:152 Resp: 416751

Ion Ratio Lower Upper

152 100

115 64.6 32.3 96.8

150 158.1 0.0 355.8



#74

N-ethyl acetate

Concen: 0.641 ug/l

RT: 12.454 min Scan# 1788

Delta R.T. -0.041 min

Lab File: VN077645.D

Acq: 09 May 2023 20:33

Tgt Ion: 43 Resp: 5256

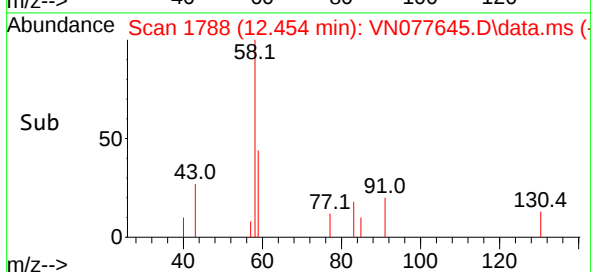
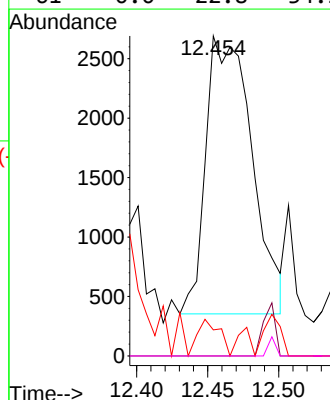
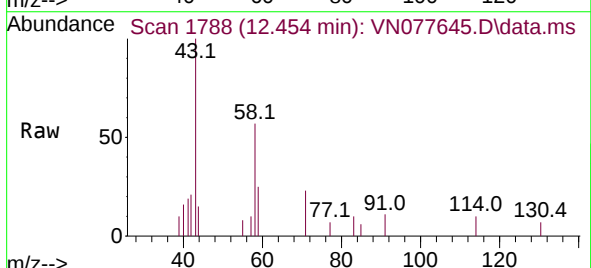
Ion Ratio Lower Upper

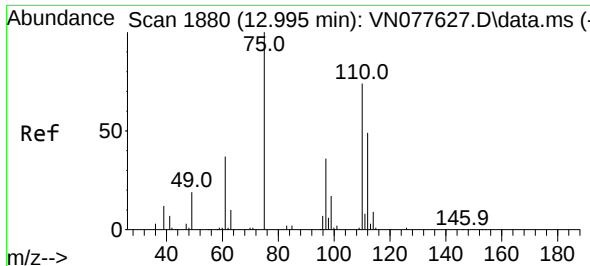
43 100

70 0.0 43.4 65.2#

55 6.3 21.4 32.0#

61 0.0 22.8 34.2#

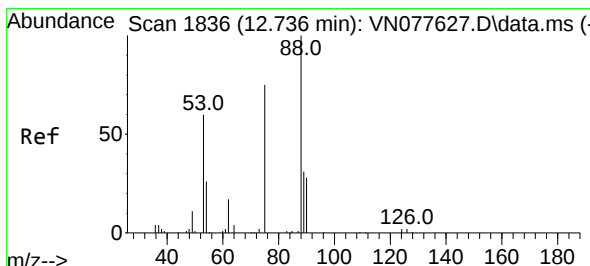
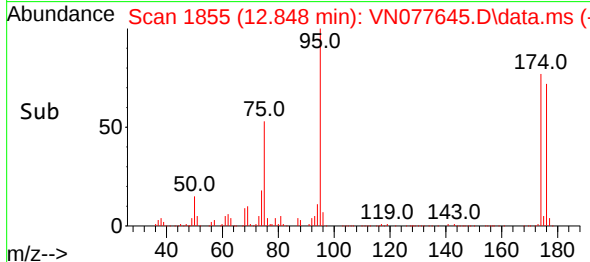
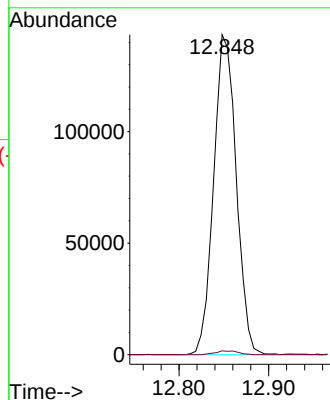
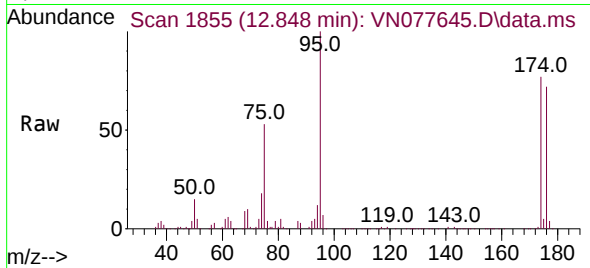




#76
1,2,3-Trichloropropane
Concen: 29.155 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

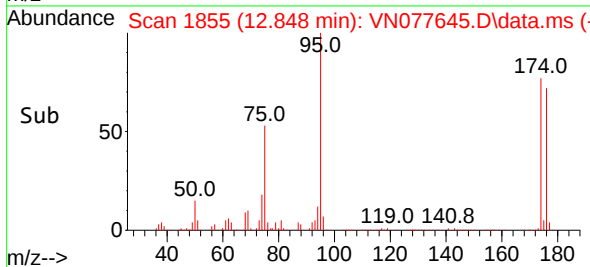
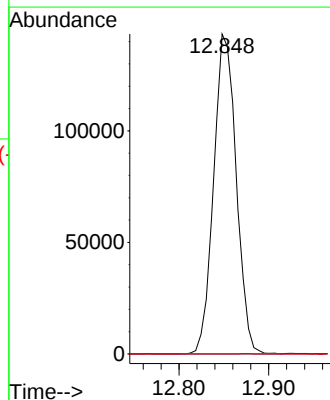
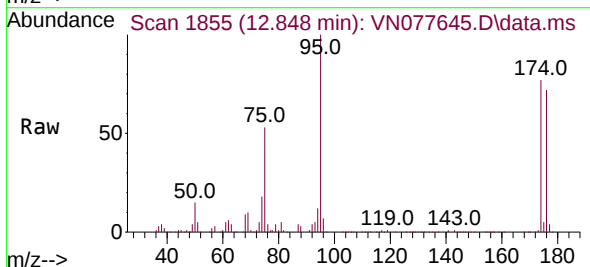
Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01

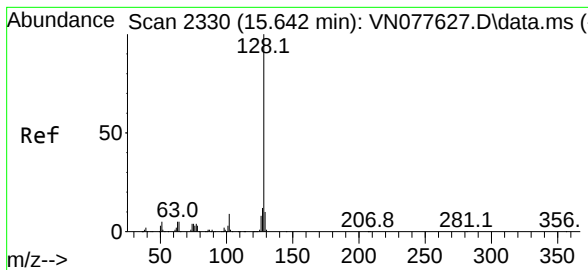
Tgt Ion: 75 Resp: 250744
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.834 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.112 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

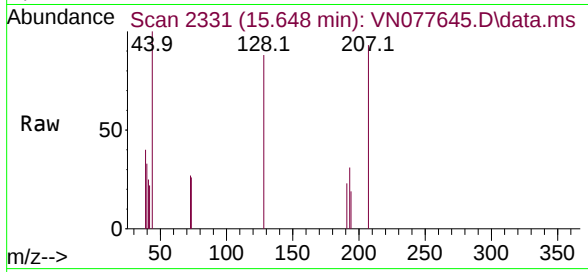
Tgt Ion: 75 Resp: 250744
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 4.774 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077645.D
Acq: 09 May 2023 20:33

Instrument :
MSVOA_N
ClientSampleId :
TR-612-VOC-01



Tgt Ion:128 Resp: 829
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 7.7 8.7 13.1#

