

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088509.D
 Acq On : 10 Dec 2025 18:15
 Operator : JC\MD
 Sample : Q3826-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

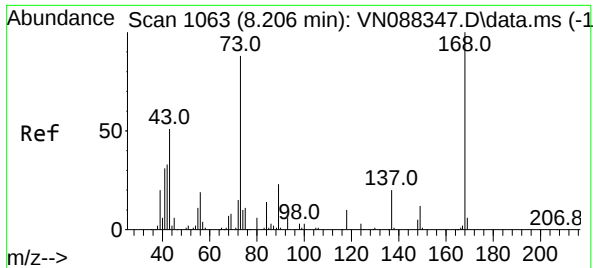
Quant Time: Dec 11 02:13:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	207942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	498082	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	530081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	242579	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	243474	62.155	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 124.300%		
35) Dibromofluoromethane	8.147	113	173121	50.155	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.320%		
50) Toluene-d8	10.547	98	615362	47.914	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.820%		
62) 4-Bromofluorobenzene	12.829	95	228438	51.839	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.680%		
Target Compounds						Qvalue
5) Bromomethane	3.001	94	445	0.271	ug/l	82
11) Tert butyl alcohol	5.506	59	2250	3.598	ug/l #	72
13) Acrolein	4.165	56	122	0.204	ug/l #	61
14) Allyl chloride	5.259	41	8718	1.854	ug/l #	20
16) Acetone	4.424	43	179559	126.747	ug/l	98
18) Methyl Acetate	5.018	43	7474	1.772	ug/l #	71
20) Methylene Chloride	5.271	84	267378	88.215	ug/l	97
25) 2-Butanone	7.483	43	14763	6.482	ug/l #	80
29) Tetrahydrofuran	7.824	42	1038	0.635	ug/l #	41
31) Cyclohexane	8.206	56	6846	1.329	ug/l #	27
36) 1,1-Dichloropropene	8.200	75	22857	4.291	ug/l #	53
37) Ethyl Acetate	7.483	43	14763	2.108	ug/l #	72
38) Carbon Tetrachloride	8.206	117	24076	4.540	ug/l #	15
43) Isopropyl Acetate	8.677	43	25688	2.400	ug/l #	93
45) 1,2-Dichloropropane	9.724	63	1709	0.427	ug/l #	46
48) Methyl methacrylate	9.724	41	115016	23.555	ug/l #	47
49) 1,4-Dioxane	9.741	88	56	0.902	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	15394	2.440	ug/l #	81
54) cis-1,3-Dichloropropene	10.341	75	38694	6.145	ug/l #	73
57) 1,3-Dichloropropane	11.188	76	2634	0.418	ug/l #	42
59) 2-Hexanone	11.188	43	59077	14.867	ug/l #	51
76) 1,2,3-Trichloropropane	12.829	75	139896	24.623	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	139896	69.853	ug/l #	1

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

Quant Time: Dec 11 02:13:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

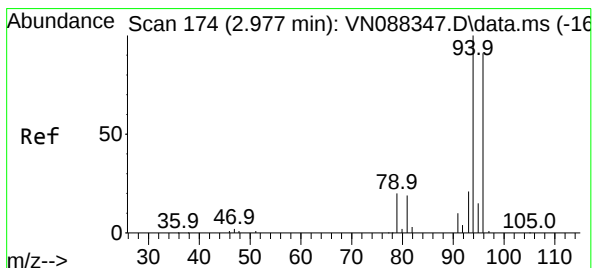
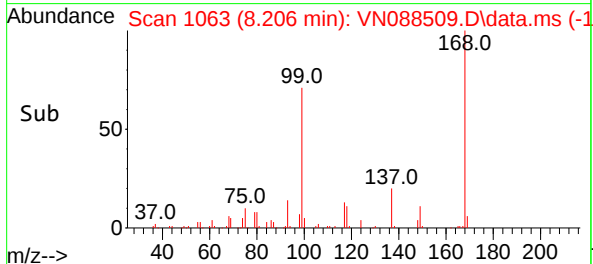
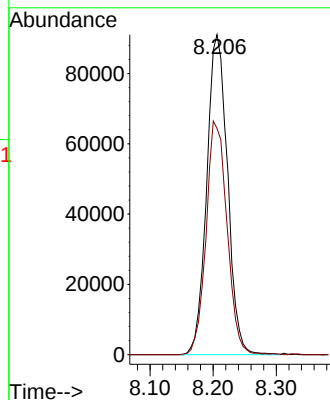
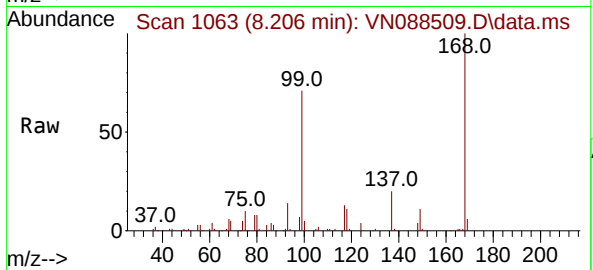




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

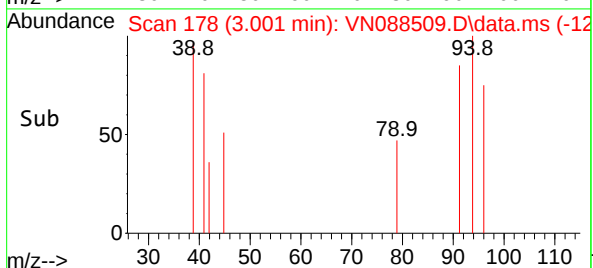
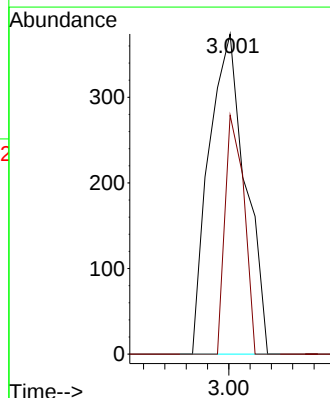
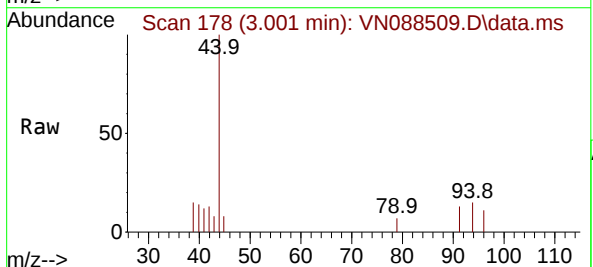
Instrument :
MSVOA_N
ClientSampleId :

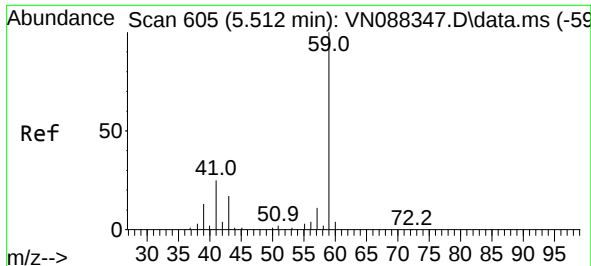
Tgt Ion:168 Resp: 207942
Ion Ratio Lower Upper
168 100
99 70.7 57.1 85.7



#5
Bromomethane
Concen: 0.271 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.024 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

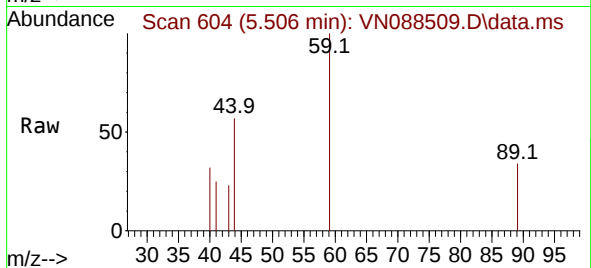
Tgt Ion: 94 Resp: 445
Ion Ratio Lower Upper
94 100
96 74.6 73.2 109.8



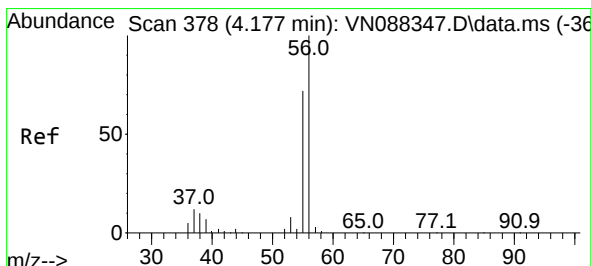
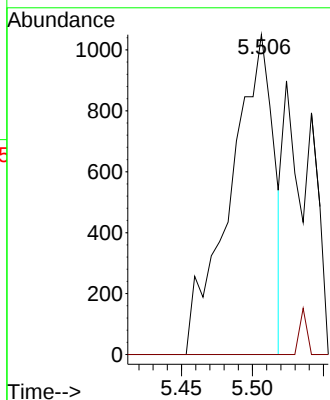
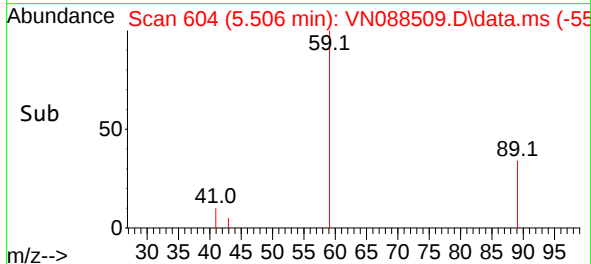


#11
Tert butyl alcohol
Concen: 3.598 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

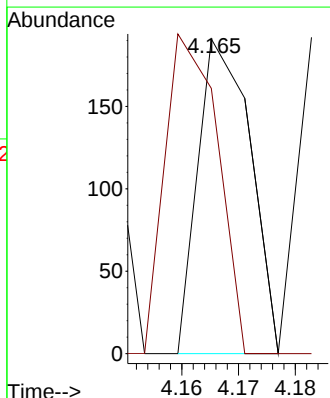
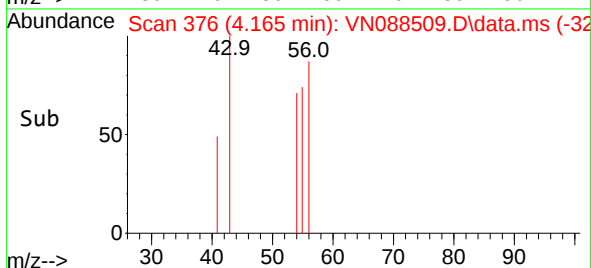
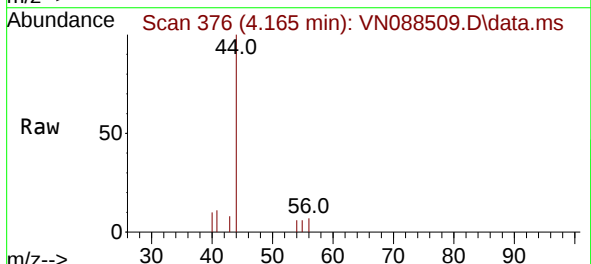


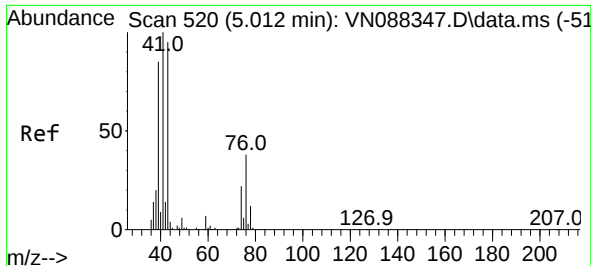
Tgt Ion: 59 Resp: 2250
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.204 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

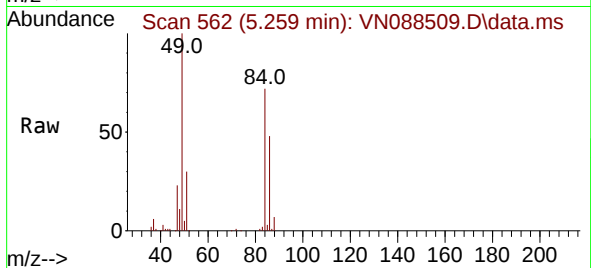
Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 102.5 56.3 84.5#



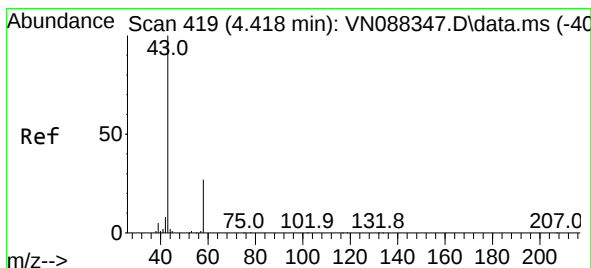
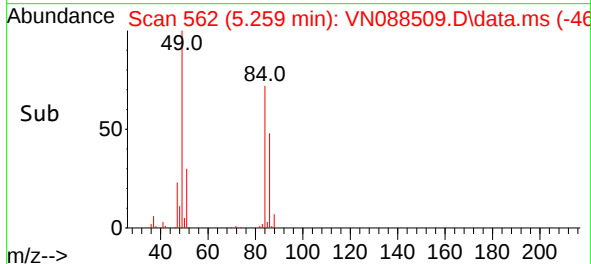
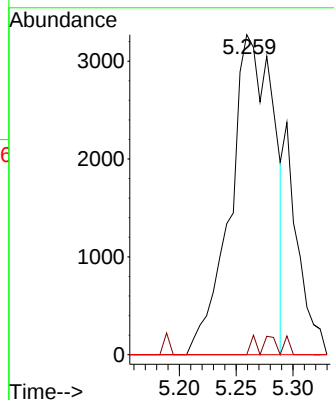


#14
 Allyl chloride
 Concen: 1.854 ug/l
 RT: 5.259 min Scan# 50
 Delta R.T. 0.247 min
 Lab File: VN088509.D
 Acq: 10 Dec 2025 18:15

Instrument :
 MSVOA_N
 ClientSampleId :

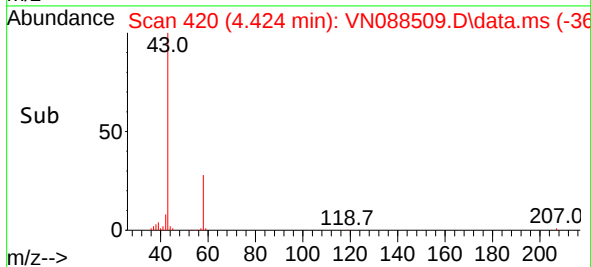
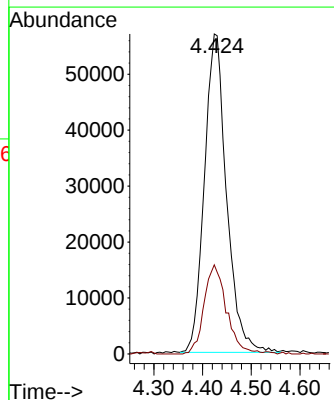
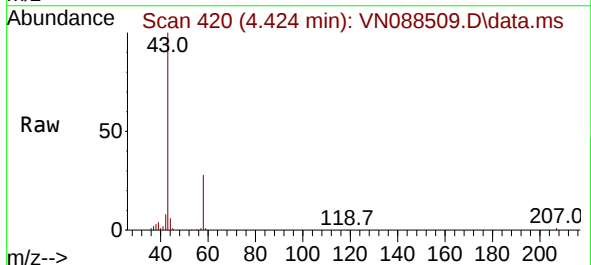


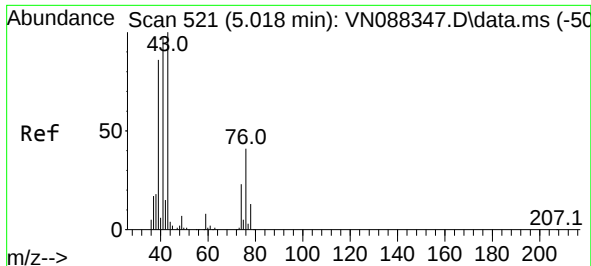
Tgt Ion: 41 Resp: 8718
 Ion Ratio Lower Upper
 41 100
 39 2.3 64.7 97.1#
 76 0.0 29.1 43.7#



#16
 Acetone
 Concen: 126.747 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.006 min
 Lab File: VN088509.D
 Acq: 10 Dec 2025 18:15

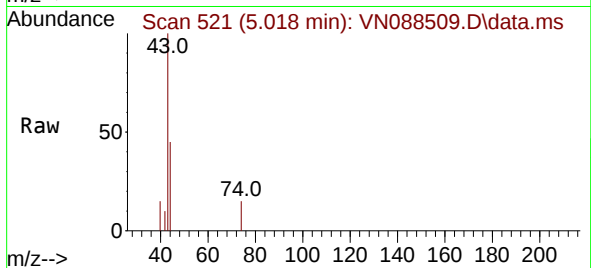
Tgt Ion: 43 Resp: 179559
 Ion Ratio Lower Upper
 43 100
 58 28.0 21.7 32.5



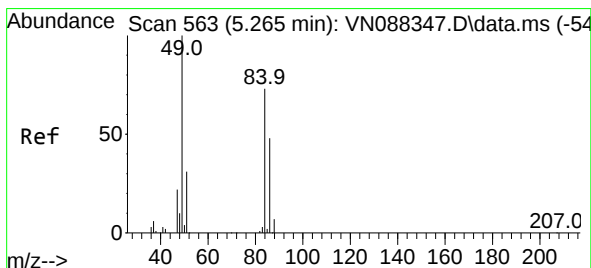
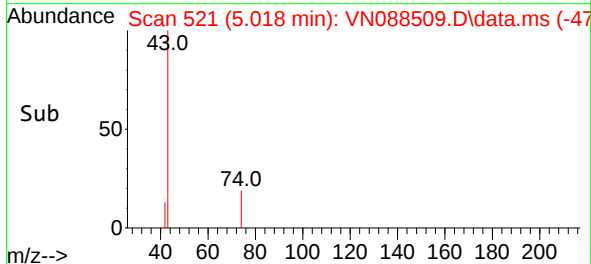
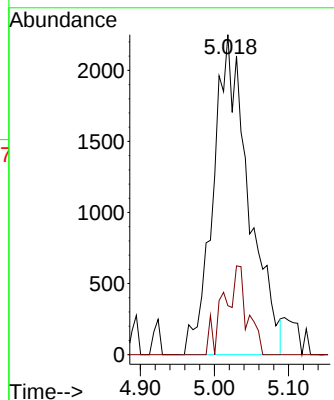


#18
Methyl Acetate
Concen: 1.772 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

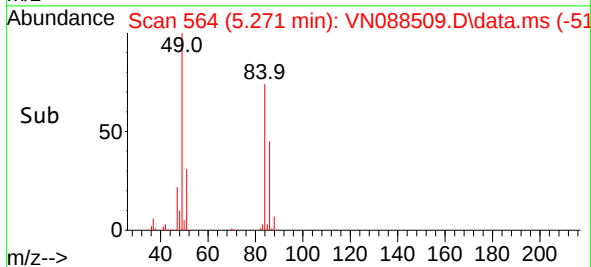
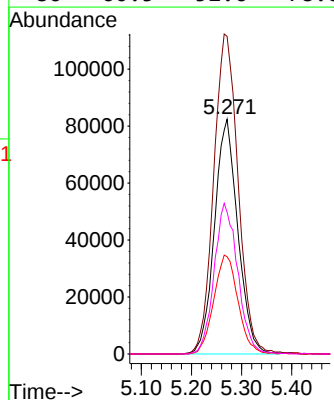
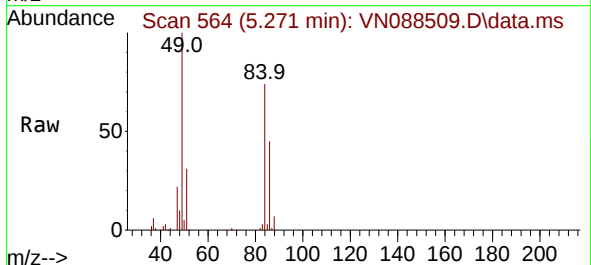


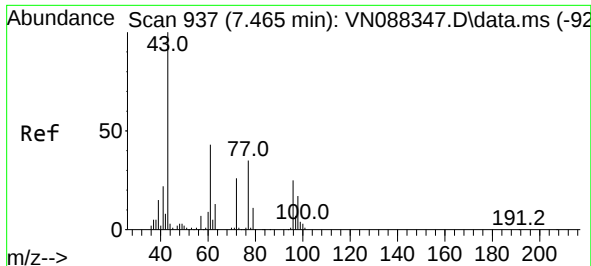
Tgt Ion: 43 Resp: 7474
Ion Ratio Lower Upper
43 100
74 8.4 17.9 26.9#



#20
Methylene Chloride
Concen: 88.215 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 84 Resp: 267378
Ion Ratio Lower Upper
84 100
49 135.3 110.2 165.2
51 41.4 34.1 51.1
86 60.5 52.6 78.8

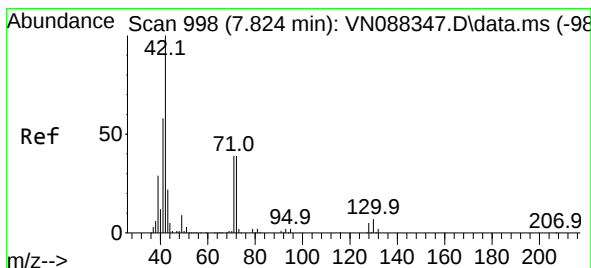
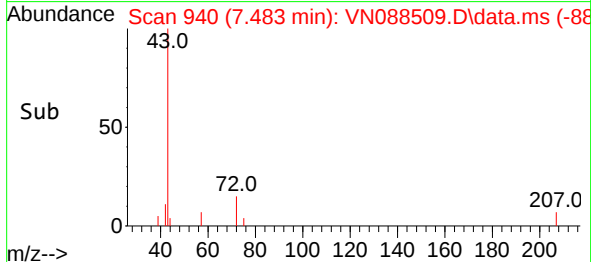
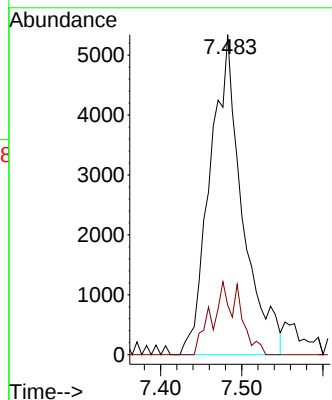
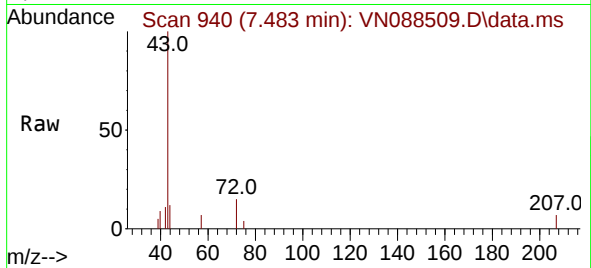




#25
2-Butanone
Concen: 6.482 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

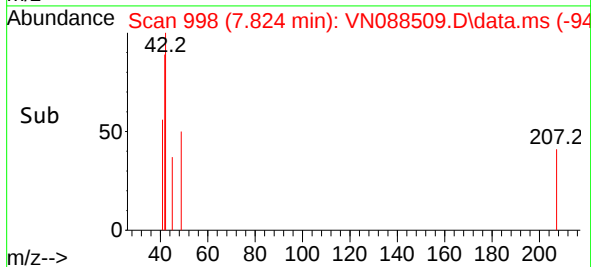
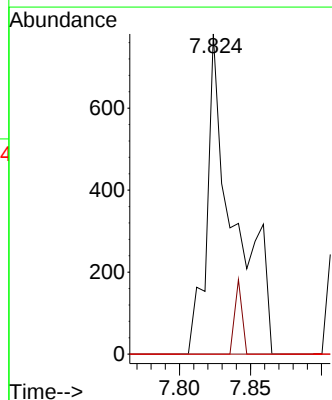
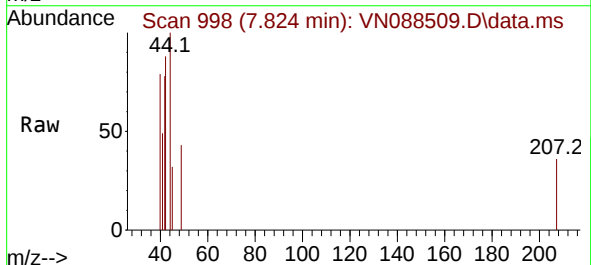
Instrument :
MSVOA_N
ClientSampleId :

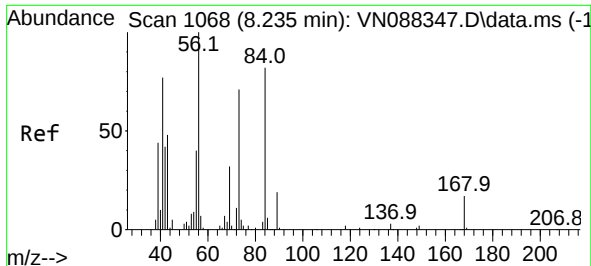
Tgt Ion: 43 Resp: 14763
Ion Ratio Lower Upper
43 100
72 15.5 20.5 30.7#



#29
Tetrahydrofuran
Concen: 0.635 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

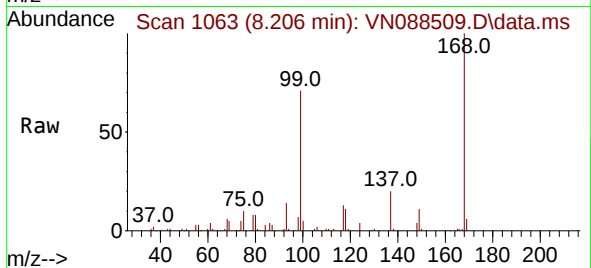
Tgt Ion: 42 Resp: 1038
Ion Ratio Lower Upper
42 100
72 6.2 32.2 48.4#
71 0.0 31.1 46.7#



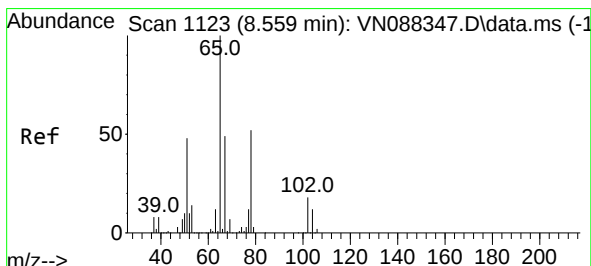
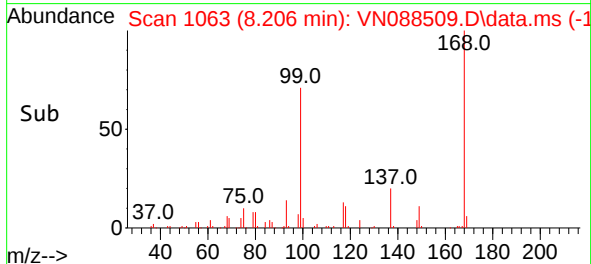
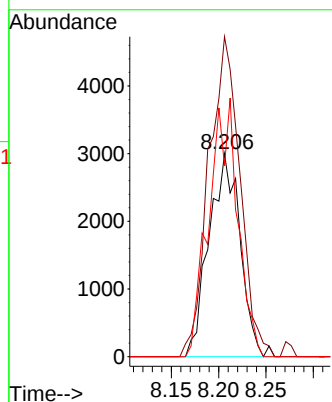


#31
Cyclohexane
Concen: 1.329 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

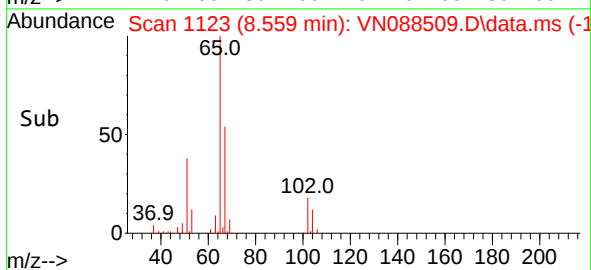
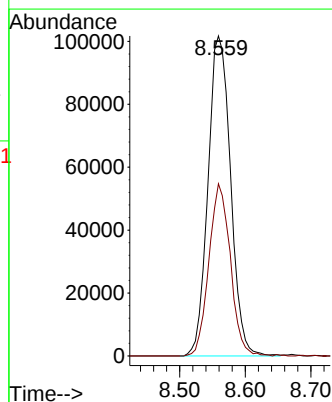
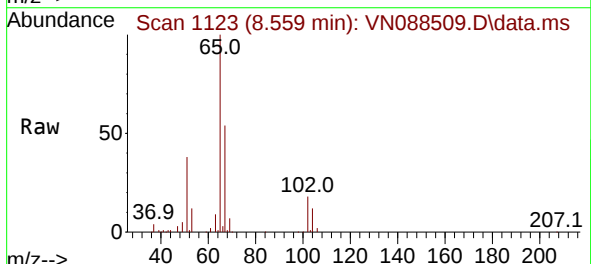


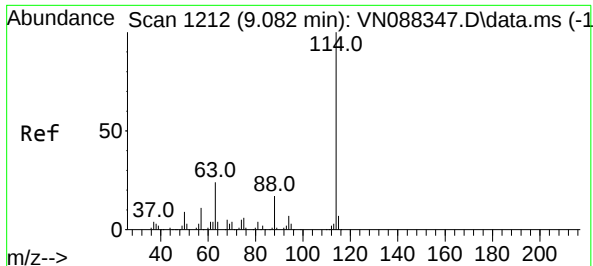
Tgt Ion: 56 Resp: 6846
Ion Ratio Lower Upper
56 100
69 157.5 25.3 37.9#
84 93.9 65.4 98.2



#33
1,2-Dichloroethane-d4
Concen: 62.155 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 65 Resp: 243474
Ion Ratio Lower Upper
65 100
67 51.1 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

Instrument :

MSVOA_N

ClientSampleId :

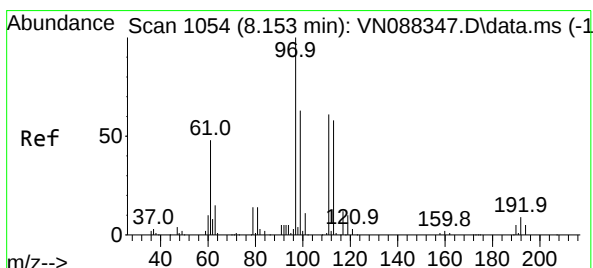
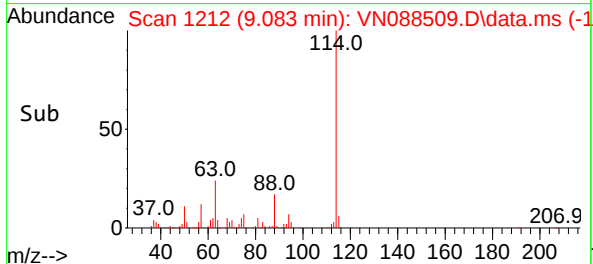
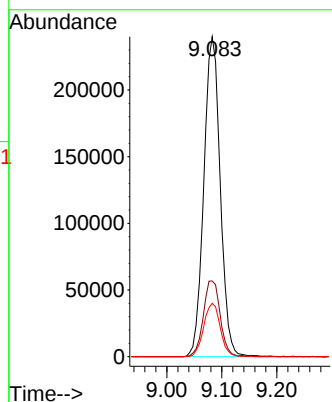
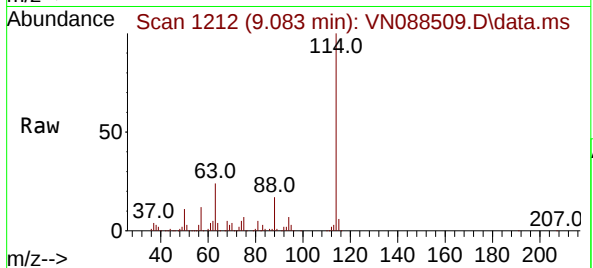
Tgt Ion:114 Resp: 498082

Ion Ratio Lower Upper

114 100

63 23.6 0.0 49.0

88 16.7 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.155 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

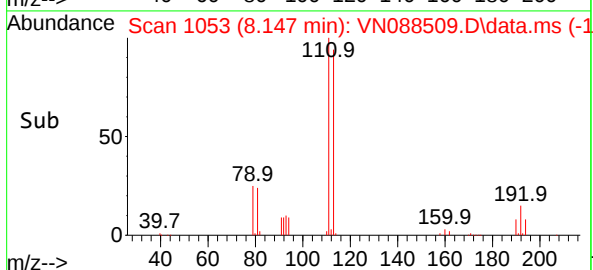
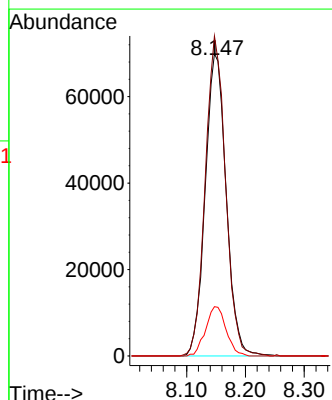
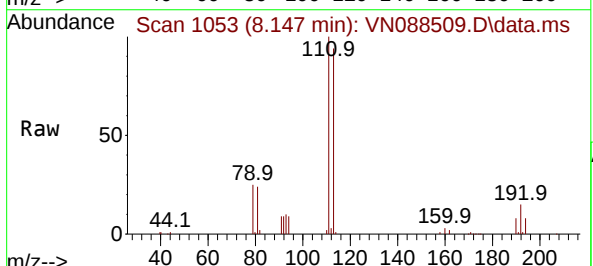
Tgt Ion:113 Resp: 173121

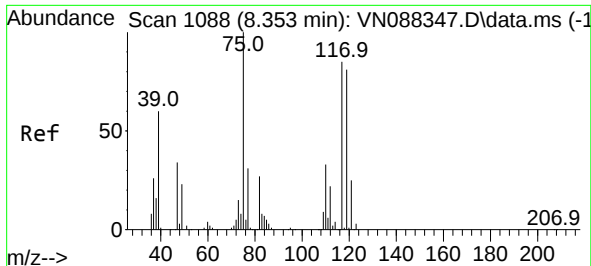
Ion Ratio Lower Upper

113 100

111 102.4 82.5 123.7

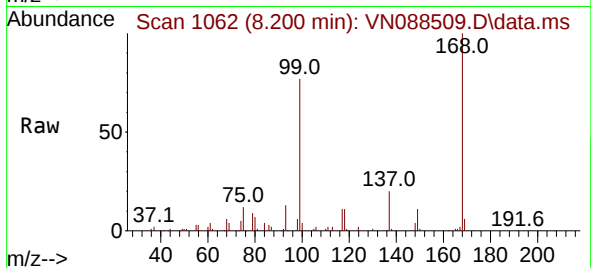
192 16.0 12.8 19.2



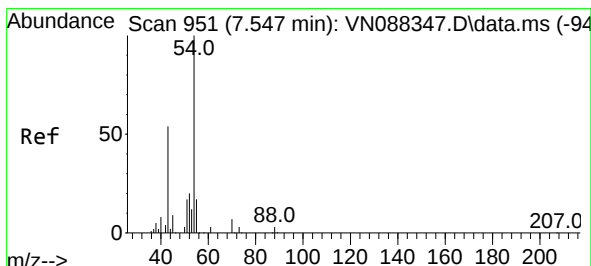
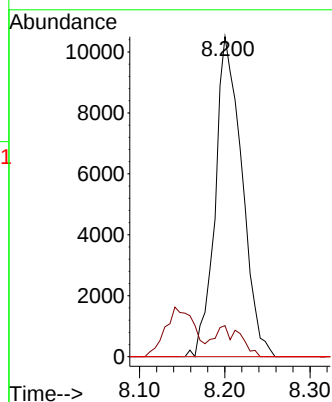
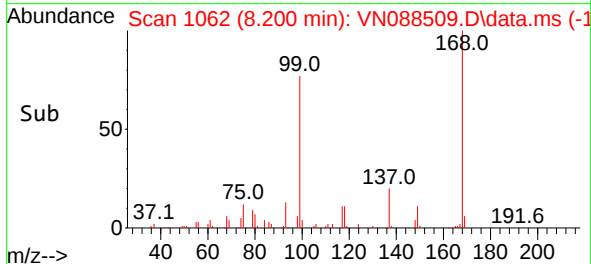


#36
1,1-Dichloropropene
Concen: 4.291 ug/l
RT: 8.200 min Scan# 1
Delta R.T. -0.153 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

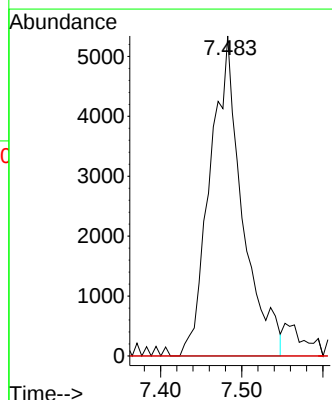
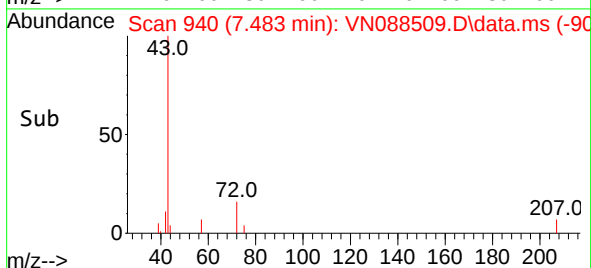
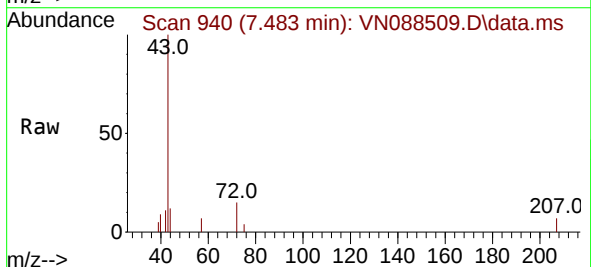


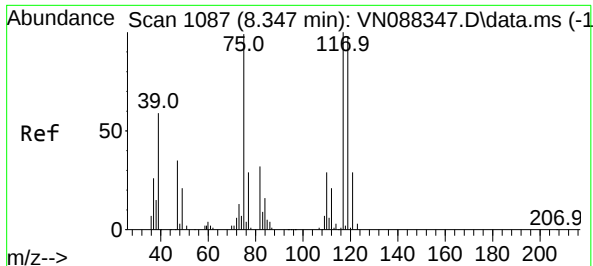
Tgt Ion: 75 Resp: 22857
Ion Ratio Lower Upper
75 100
110 9.6 15.8 47.4#
77 0.0 24.2 36.2#



#37
Ethyl Acetate
Concen: 2.108 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.065 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

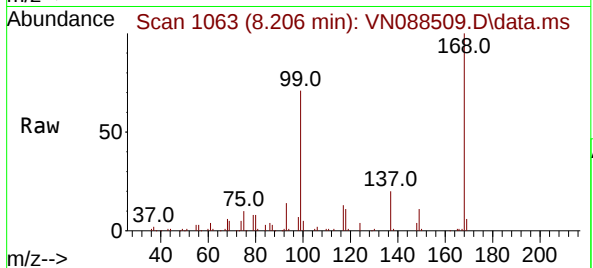
Tgt Ion: 43 Resp: 14763
Ion Ratio Lower Upper
43 100
61 0.0 9.5 14.3#
70 0.0 7.1 10.7#



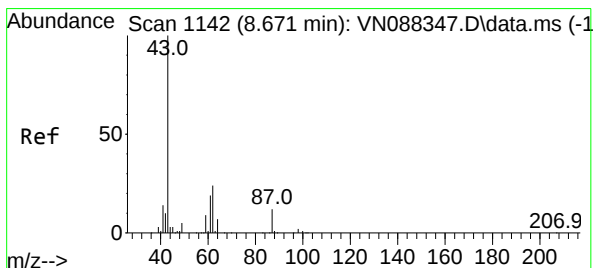
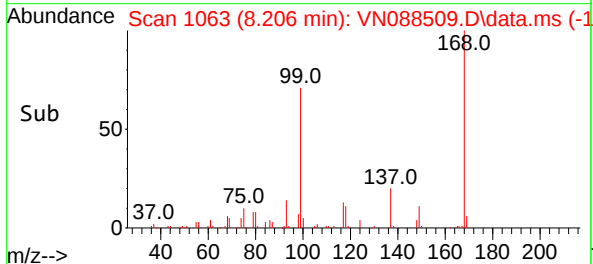
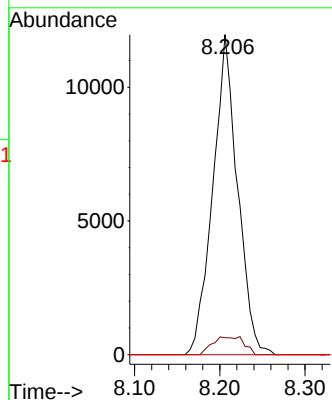


#38
Carbon Tetrachloride
Concen: 4.540 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

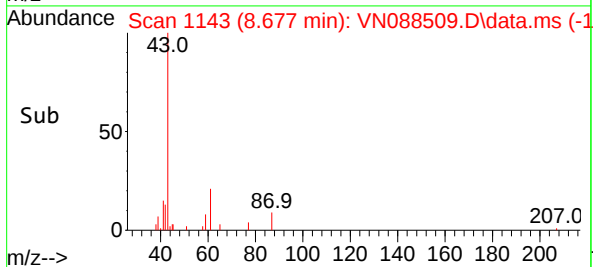
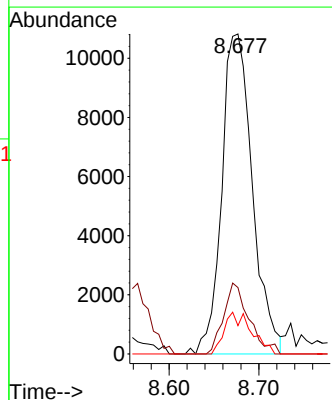
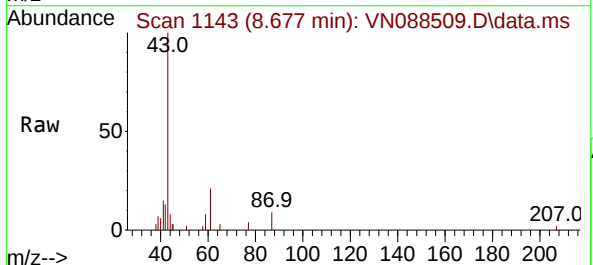


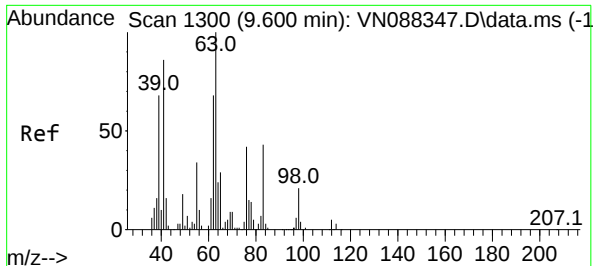
Tgt Ion:117 Resp: 24076
Ion Ratio Lower Upper
117 100
119 5.3 78.2 117.4#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.400 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 43 Resp: 25688
Ion Ratio Lower Upper
43 100
61 18.4 18.7 28.1#
87 11.6 9.1 13.7





#45

1,2-Dichloropropane

Concen: 0.427 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.124 min

Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

Instrument :

MSVOA_N

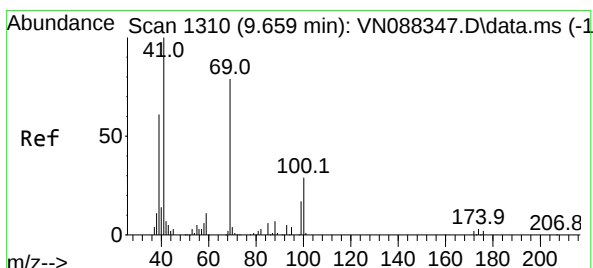
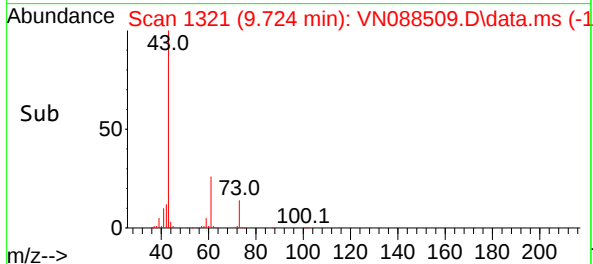
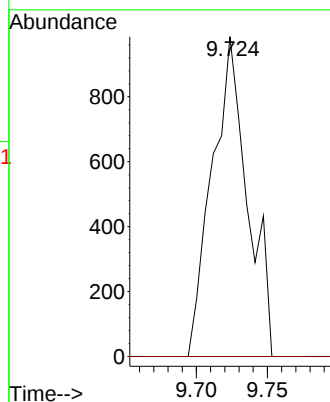
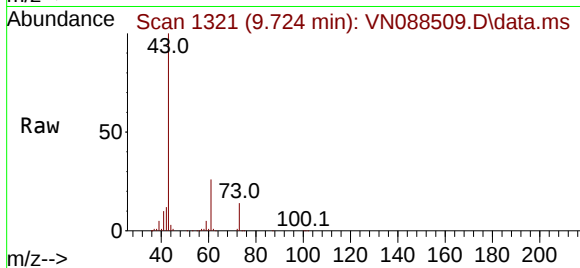
ClientSampleId :

Tgt Ion: 63 Resp: 1709

Ion Ratio Lower Upper

63 100

65 0.0 23.0 34.4#



#48

Methyl methacrylate

Concen: 23.555 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.065 min

Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

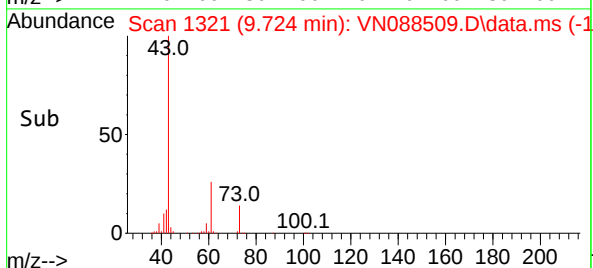
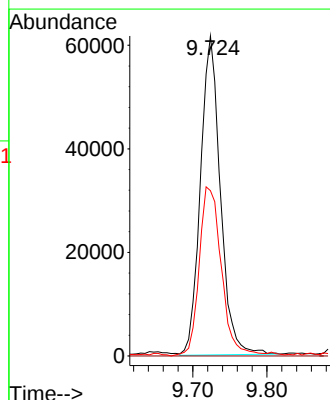
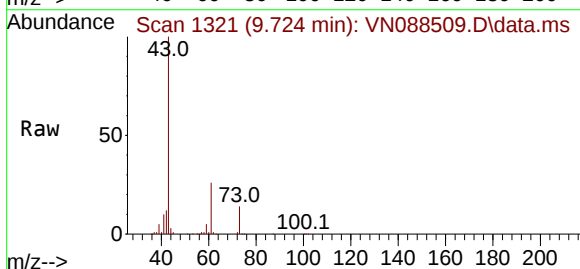
Tgt Ion: 41 Resp: 115016

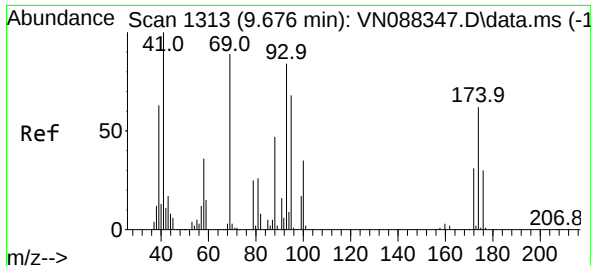
Ion Ratio Lower Upper

41 100

69 0.0 62.4 93.6#

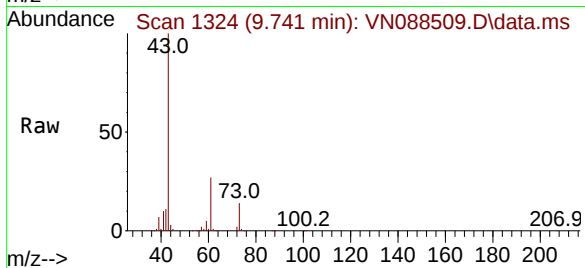
39 59.0 52.6 79.0



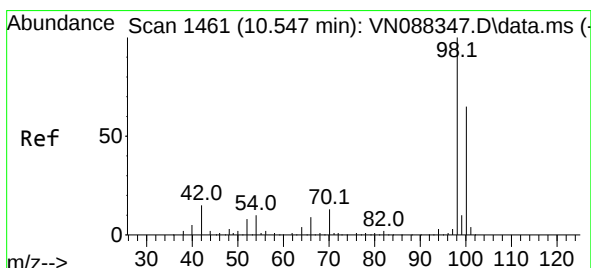
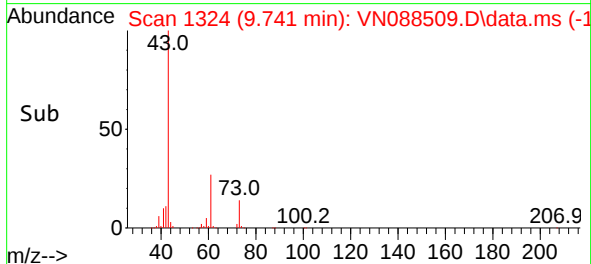
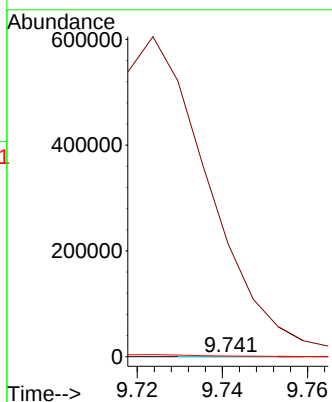


#49
1,4-Dioxane
Concen: 0.902 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Instrument :
MSVOA_N
ClientSampleId :

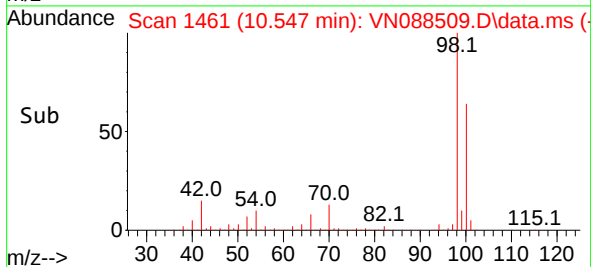
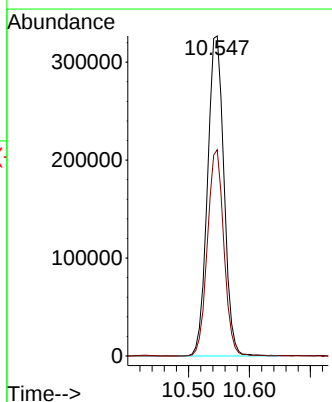
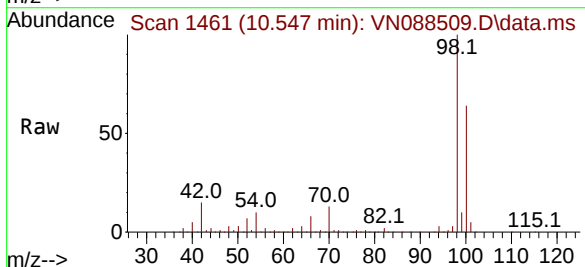


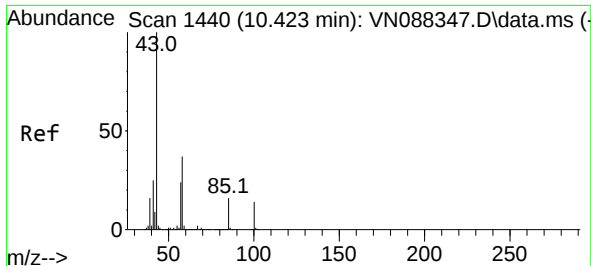
Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 2028700.0 0.0 0.0#
58 12907.1 62.0 93.0#



#50
Toluene-d8
Concen: 47.914 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 98 Resp: 615362
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2

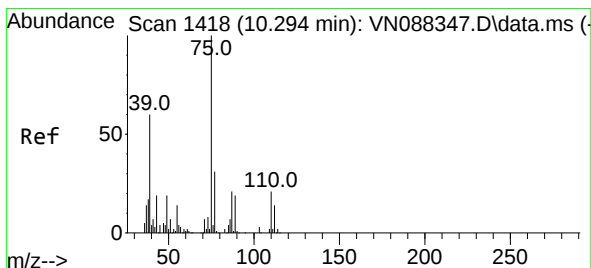
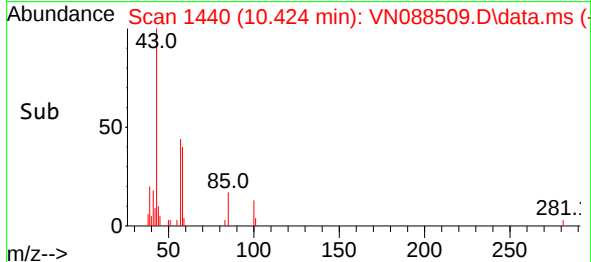
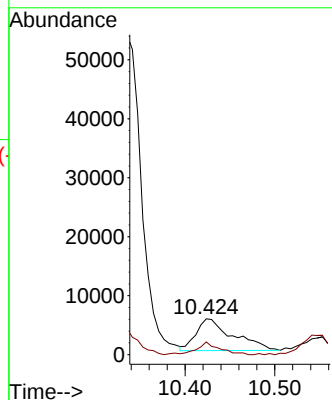
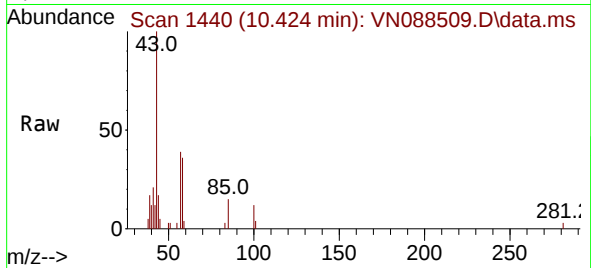




#51
4-Methyl-2-Pentanone
Concen: 2.440 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

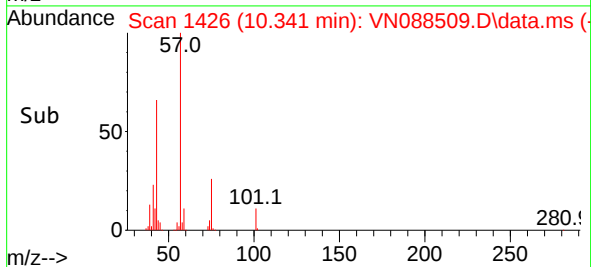
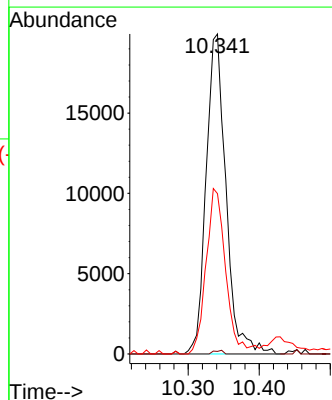
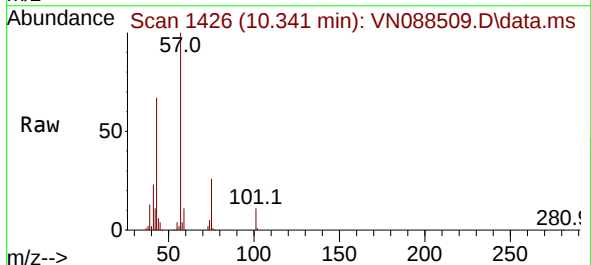
Instrument :
MSVOA_N
ClientSampleId :

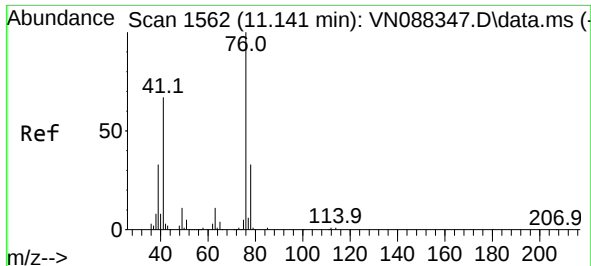
Tgt Ion: 43 Resp: 15394
Ion Ratio Lower Upper
43 100
58 25.2 29.1 43.7#



#54
cis-1,3-Dichloropropene
Concen: 6.145 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 75 Resp: 38694
Ion Ratio Lower Upper
75 100
77 0.8 24.5 36.7#
39 50.1 48.3 72.5





#57

1,3-Dichloropropane

Concen: 0.418 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

Instrument :

MSVOA_N

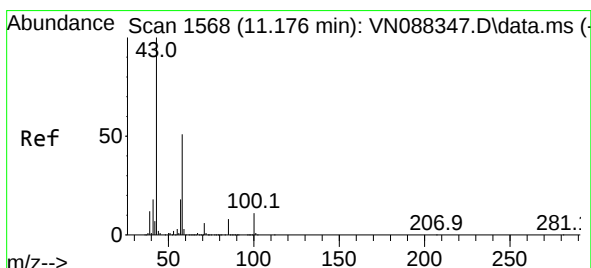
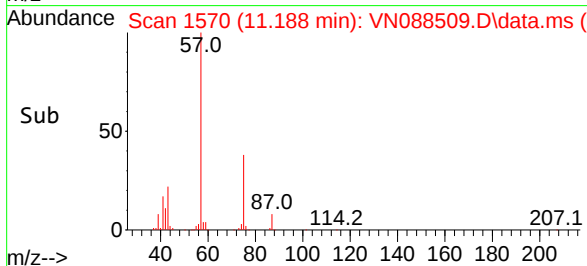
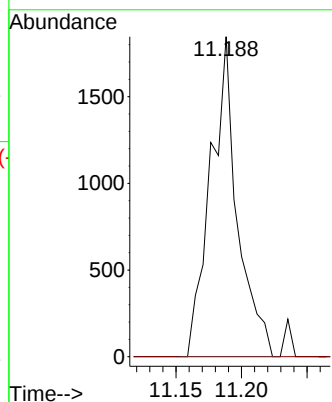
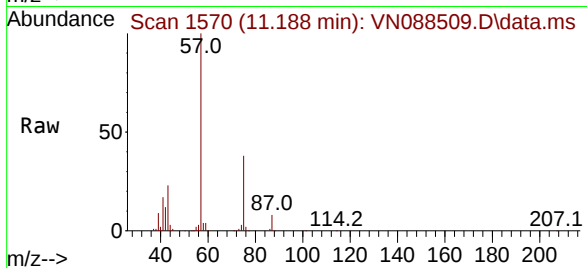
ClientSampleId :

Tgt Ion: 76 Resp: 2634

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 14.867 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088509.D

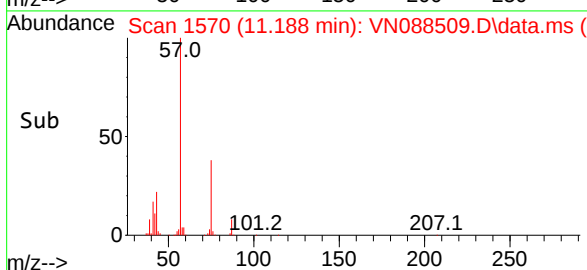
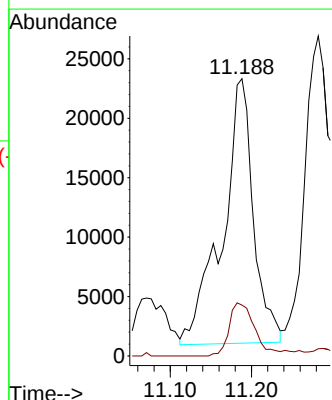
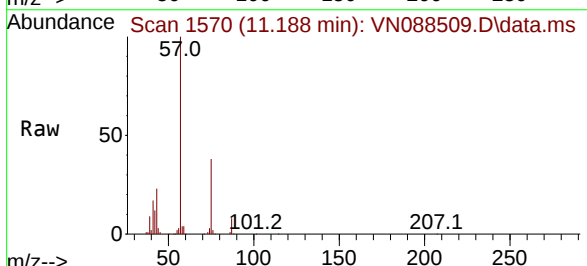
Acq: 10 Dec 2025 18:15

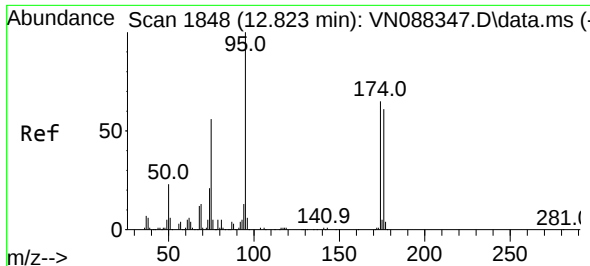
Tgt Ion: 43 Resp: 59077

Ion Ratio Lower Upper

43 100

58 16.5 25.3 75.9#

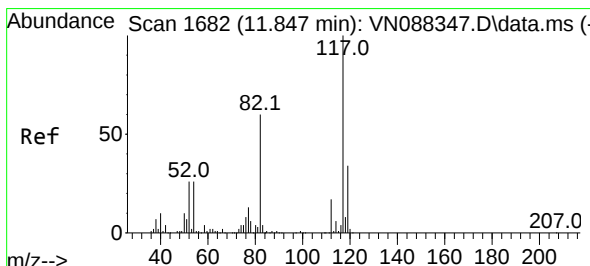
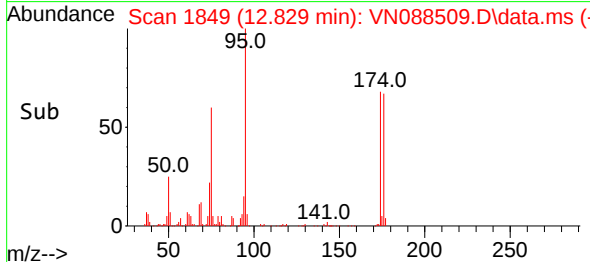
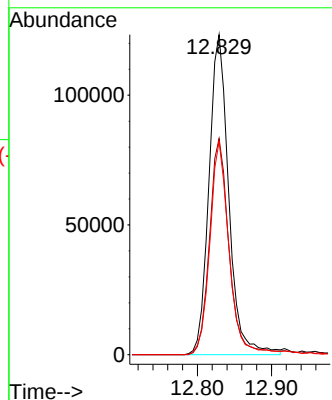
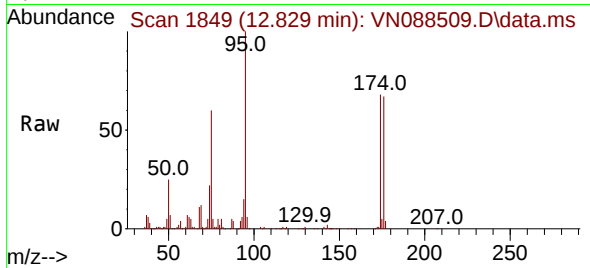




#62
4-Bromofluorobenzene
Concen: 51.839 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

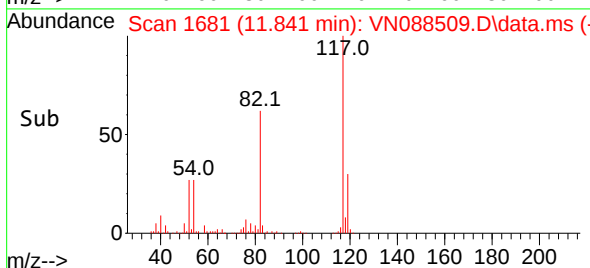
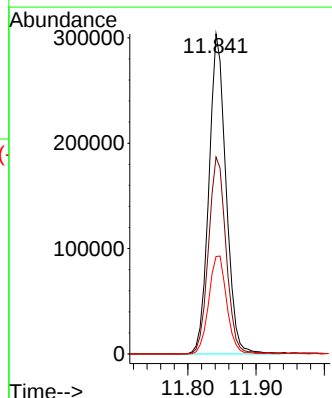
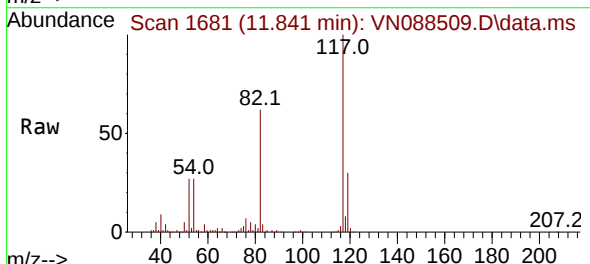
Instrument :
MSVOA_N
ClientSampleId :

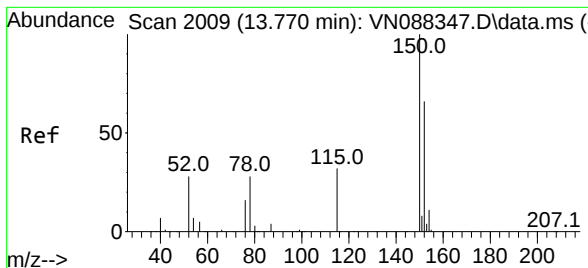
Tgt Ion: 95 Resp: 228438
Ion Ratio Lower Upper
95 100
174 68.4 0.0 139.0
176 65.2 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088509.D
Acq: 10 Dec 2025 18:15

Tgt Ion: 117 Resp: 530081
Ion Ratio Lower Upper
117 100
82 61.5 47.8 71.8
119 30.5 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

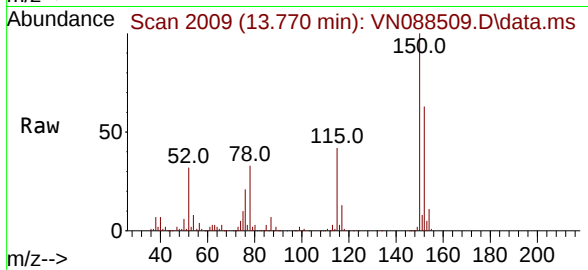
Lab File: VN088509.D

Acq: 10 Dec 2025 18:15

Instrument :

MSVOA_N

ClientSampleId :



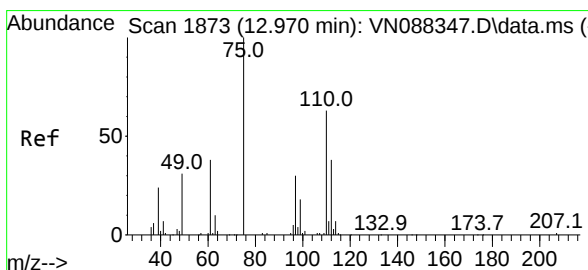
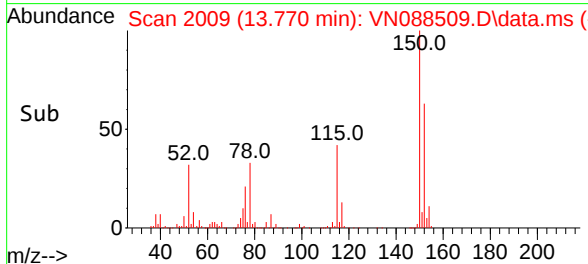
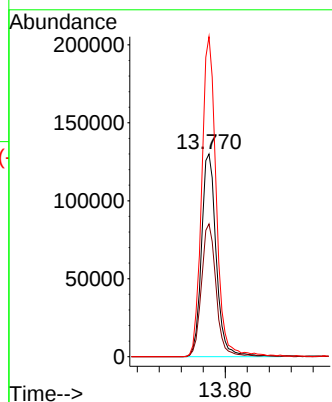
Tgt Ion:152 Resp: 242579

Ion Ratio Lower Upper

152 100

115 65.1 33.0 98.9

150 156.1 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.623 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088509.D

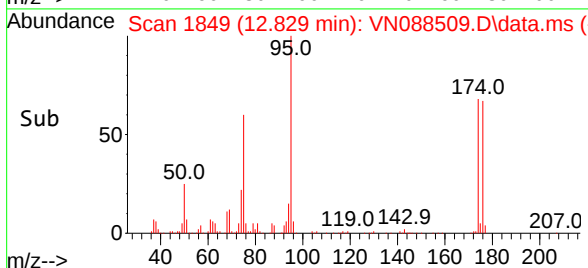
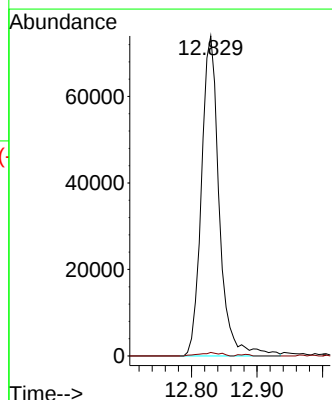
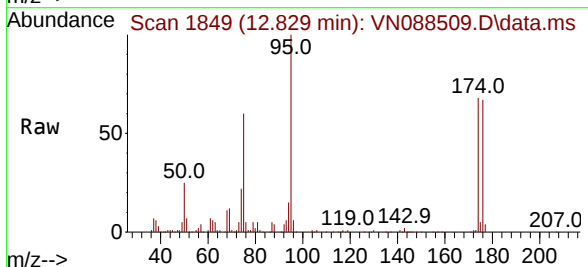
Acq: 10 Dec 2025 18:15

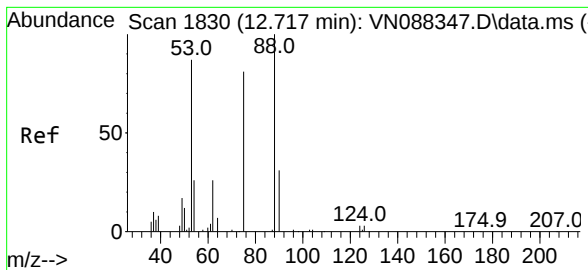
Tgt Ion: 75 Resp: 139896

Ion Ratio Lower Upper

75 100

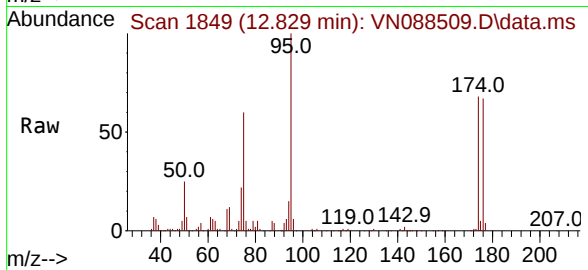
77 1.3 87.2 261.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.853 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088509.D
 Acq: 10 Dec 2025 18:15

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 139896
 Ion Ratio Lower Upper
 75 100
 53 0.3 92.2 138.4#
 89 0.1 0.0 0.0#

