

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087231.D
 Acq On : 27 Jun 2025 18:25
 Operator : JC\MD
 Sample : Q2414-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

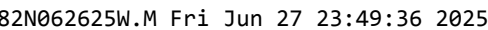
Quant Time: Jun 27 23:49:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

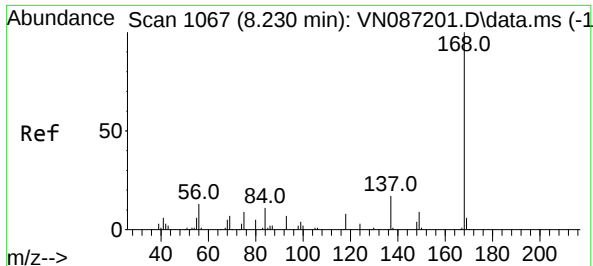
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	186806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	348147	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	241287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	143304	53.306	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.620%		
35) Dibromofluoromethane	8.177	113	106715	47.412	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 94.820%		
50) Toluene-d8	10.570	98	436488	46.888	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 93.780%		
62) 4-Bromofluorobenzene	12.847	95	144331	44.682	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 89.360%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.553	59	411	0.694	ug/l #	73
14) Allyl chloride	5.036	41	58	Below Cal	#	23
16) Acetone	4.447	43	44924	22.383	ug/l	99
17) Carbon Disulfide	4.741	76	55	Below Cal	#	76
18) Methyl Acetate	5.041	43	25808	7.100	ug/l	96
20) Methylene Chloride	5.294	84	10324	2.569	ug/l	94
25) 2-Butanone	7.500	43	5866	2.878	ug/l	99
29) Tetrahydrofuran	7.853	42	478	0.358	ug/l #	40
31) Cyclohexane	8.224	56	3846	0.924	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	15237	4.622	ug/l #	49
37) Ethyl Acetate	7.577	43	15289	1.367	ug/l	98
38) Carbon Tetrachloride	8.229	117	19051	5.933	ug/l #	15
43) Isopropyl Acetate	8.694	43	10771	1.777	ug/l #	91
45) 1,2-Dichloropropane	9.741	63	1322	0.503	ug/l #	44
48) Methyl methacrylate	9.747	41	89223	30.448	ug/l #	39
51) 4-Methyl-2-Pentanone	10.359	43	93037	18.809	ug/l #	46
54) cis-1,3-Dichloropropene	10.359	75	50242	11.850	ug/l #	58
56) Ethyl methacrylate	10.870	69	133	Below Cal	#	28
57) 1,3-Dichloropropane	11.212	76	2999	0.689	ug/l #	43
59) 2-Hexanone	11.212	43	37274	13.823	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	13.164	83	848	0.220	ug/l	93
76) 1,2,3-Trichloropropane	12.847	75	71609	20.325	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71609	45.617	ug/l #	14

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

Quant Time: Jun 27 23:49:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 27 05:55:21 2025
Response via : Initial Calibration

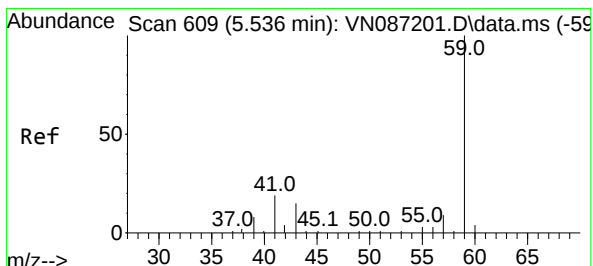
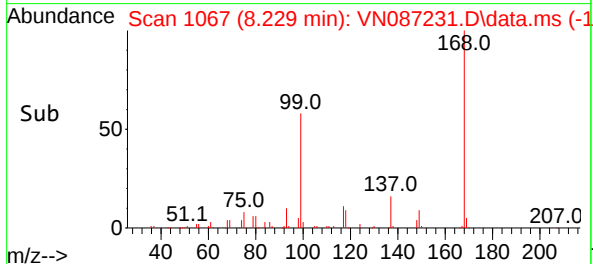
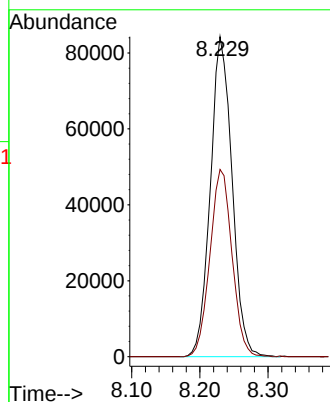
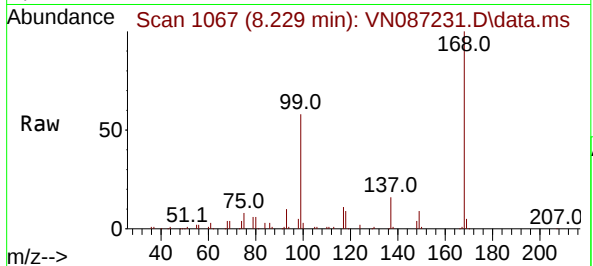




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

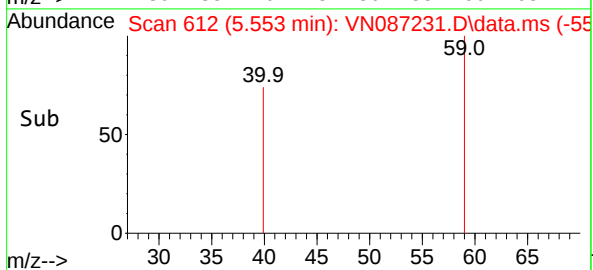
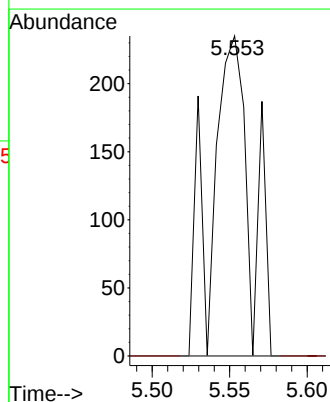
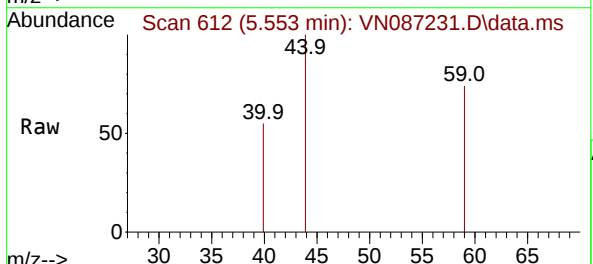
Instrument :
MSVOA_N
ClientSampleId :
WC-1

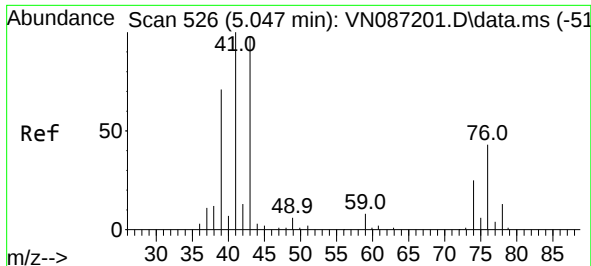
Tgt Ion:168 Resp: 186806
Ion Ratio Lower Upper
168 100
99 58.5 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.694 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.017 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 59 Resp: 411
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

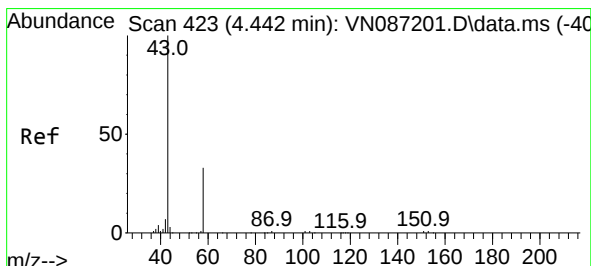
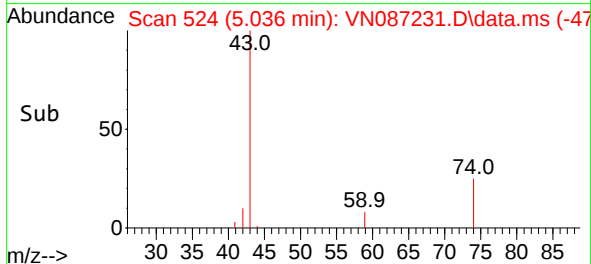
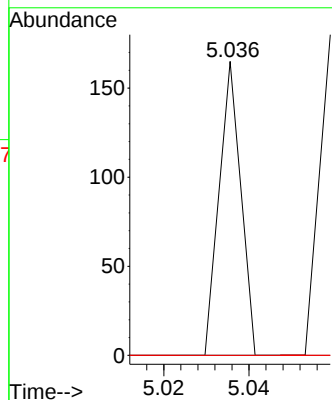
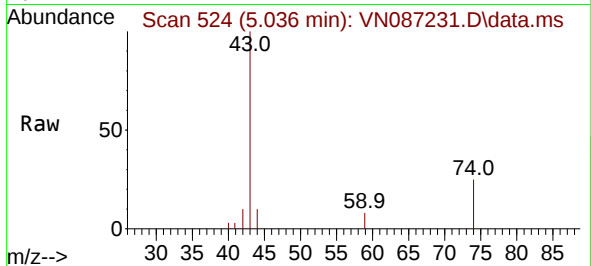




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.036 min Scan# 51
 Delta R.T. -0.011 min
 Lab File: VN087231.D
 Acq: 27 Jun 2025 18:25

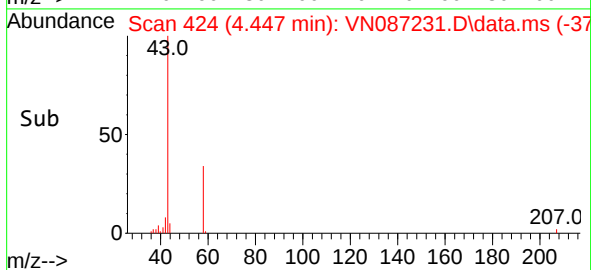
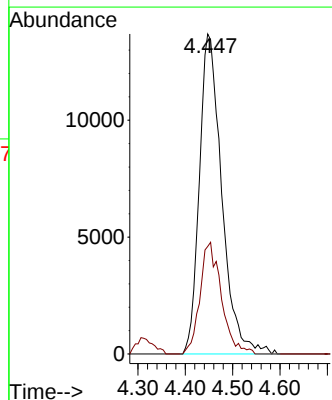
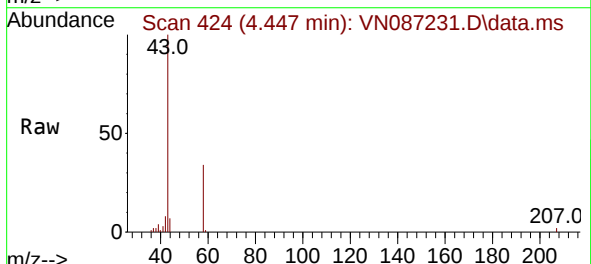
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

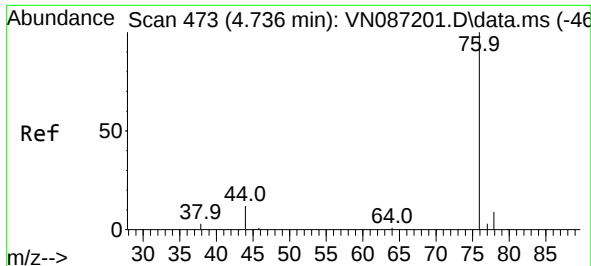
Tgt Ion: 41 Resp: 58
 Ion Ratio Lower Upper
 41 100
 39 0.0 55.0 82.6#
 76 0.0 31.3 46.9#



#16
 Acetone
 Concen: 22.383 ug/l
 RT: 4.447 min Scan# 424
 Delta R.T. 0.005 min
 Lab File: VN087231.D
 Acq: 27 Jun 2025 18:25

Tgt Ion: 43 Resp: 44924
 Ion Ratio Lower Upper
 43 100
 58 33.6 26.5 39.7

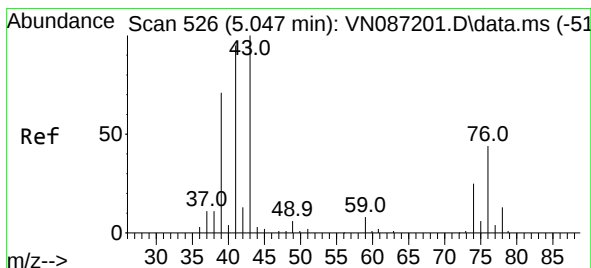
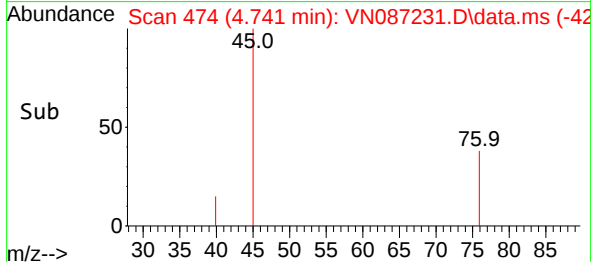
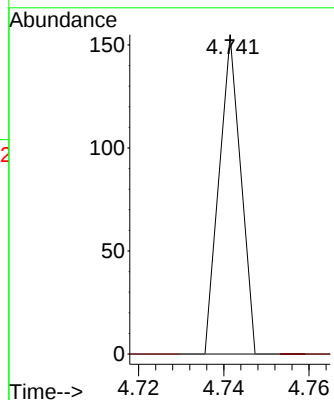
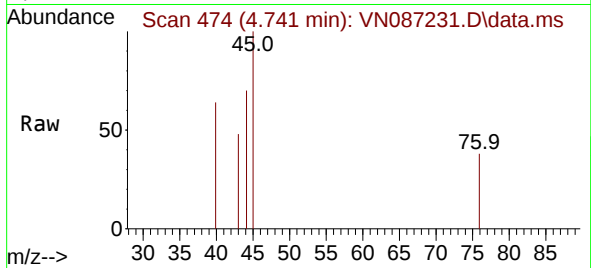




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.741 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

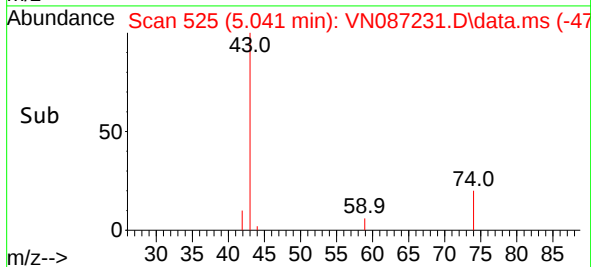
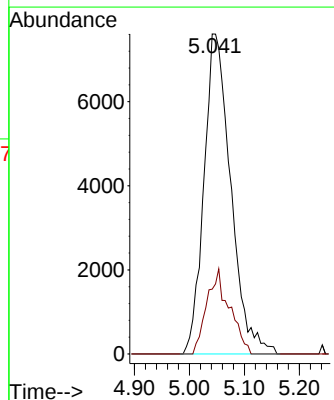
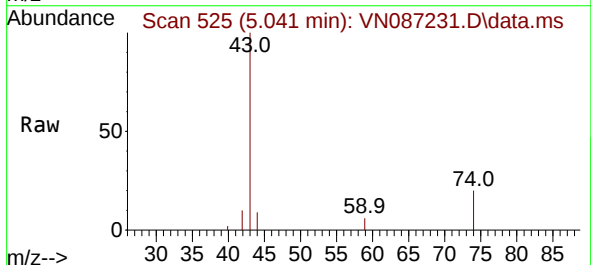
Instrument :
MSVOA_N
ClientSampleId :
WC-1

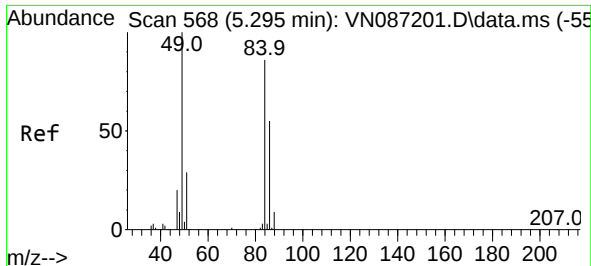
Tgt Ion: 76 Resp: 55
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 7.100 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.006 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 43 Resp: 25808
Ion Ratio Lower Upper
43 100
74 22.5 19.4 29.2

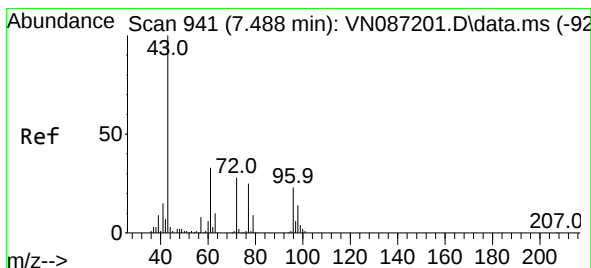
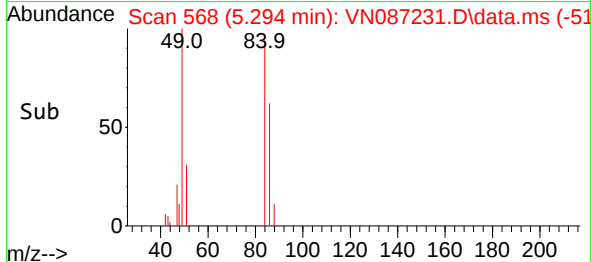
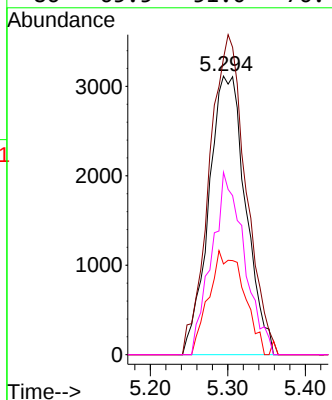
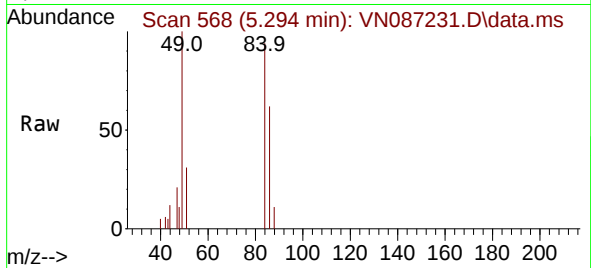




#20
Methylene Chloride
Concen: 2.569 ug/l
RT: 5.294 min Scan# 51
Delta R.T. -0.001 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

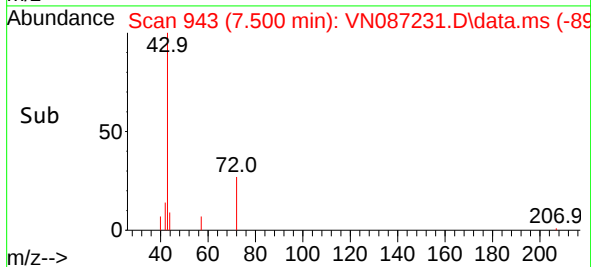
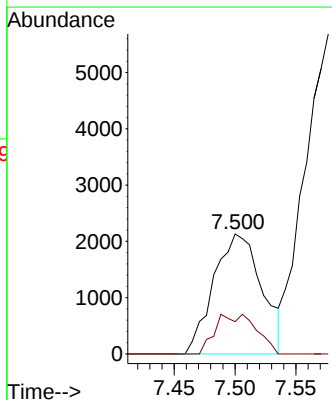
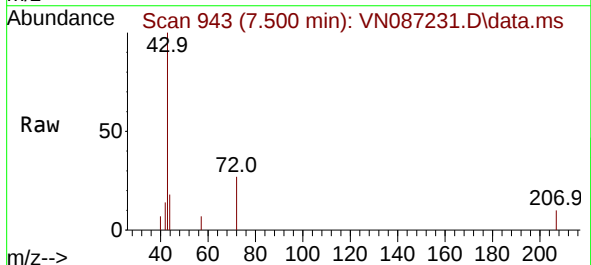
Instrument :
MSVOA_N
ClientSampleId :
WC-1

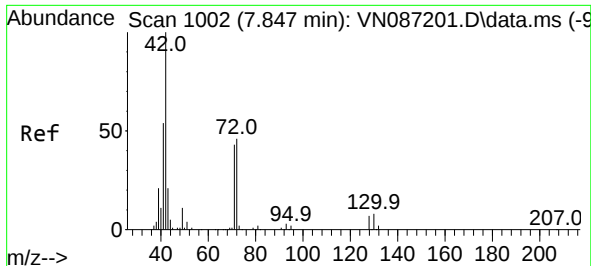
Tgt Ion:	84	Resp:	10324
Ion	Ratio	Lower	Upper
84	100		
49	106.4	93.0	139.6
51	32.6	27.2	40.8
86	65.5	51.0	76.4



#25
2-Butanone
Concen: 2.878 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion:	43	Resp:	5866
Ion	Ratio	Lower	Upper
43	100		
72	27.0	22.2	33.2





#29

Tetrahydrofuran

Concen: 0.358 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

WC-1

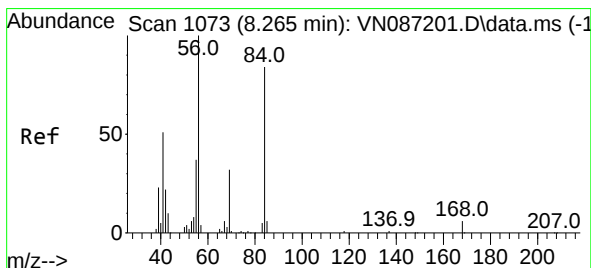
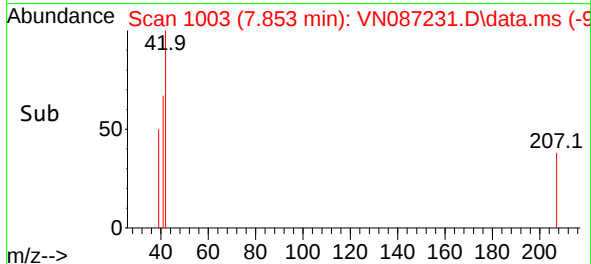
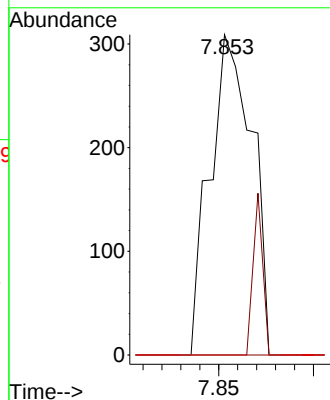
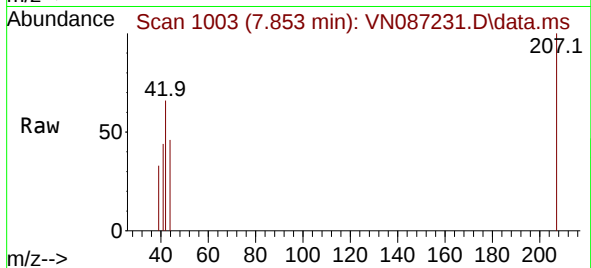
Tgt Ion: 42 Resp: 478

Ion Ratio Lower Upper

42 100

72 11.5 36.9 55.3#

71 0.0 35.0 52.4#



#31

Cyclohexane

Concen: 0.924 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

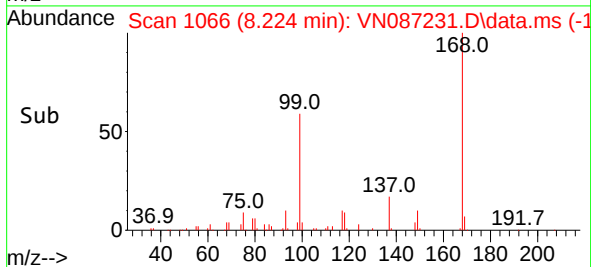
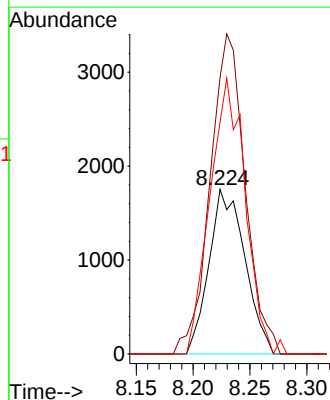
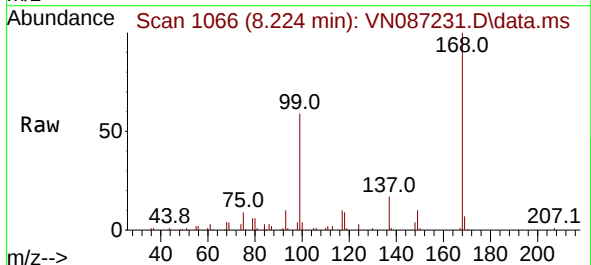
Tgt Ion: 56 Resp: 3846

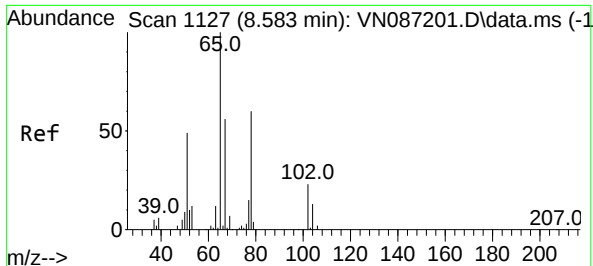
Ion Ratio Lower Upper

56 100

69 168.1 25.3 37.9#

84 158.5 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 53.306 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

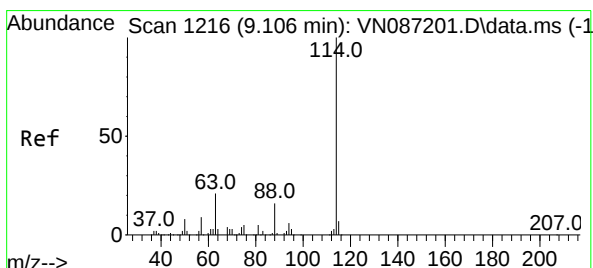
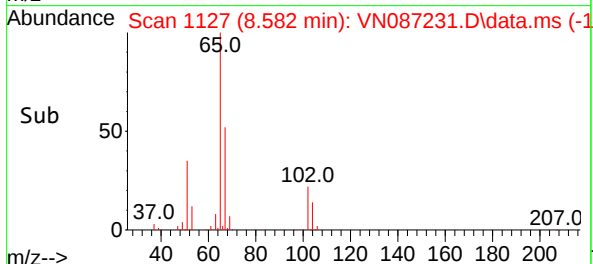
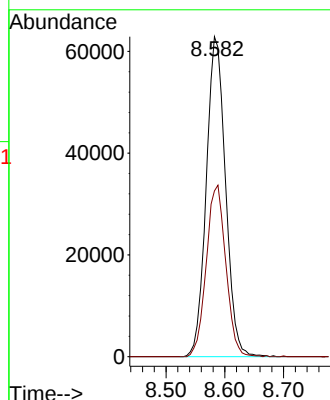
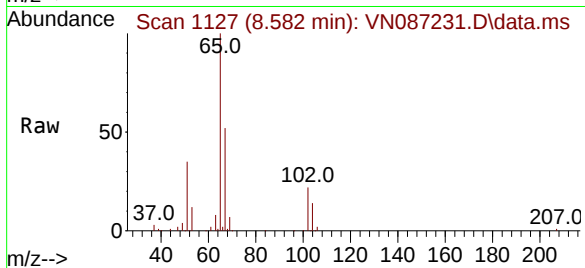
WC-1

Tgt Ion: 65 Resp: 143304

Ion Ratio Lower Upper

65 100

67 54.4 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

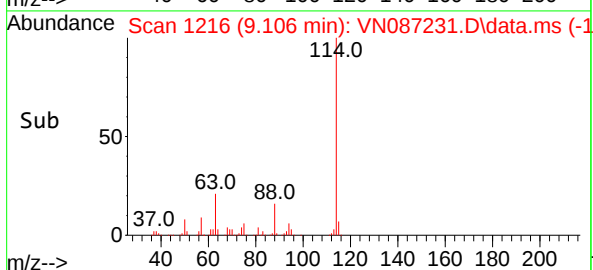
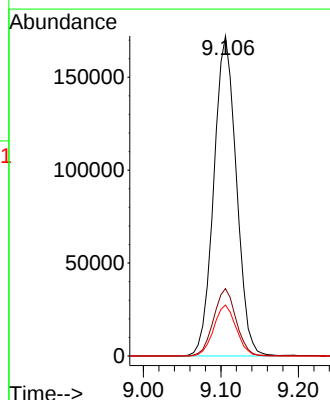
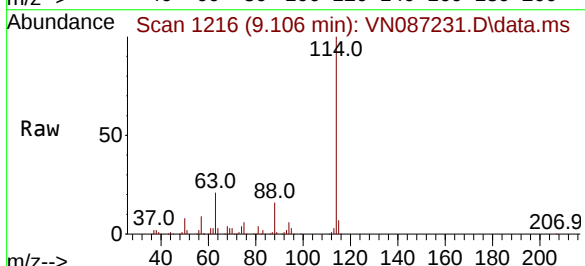
Tgt Ion: 114 Resp: 348147

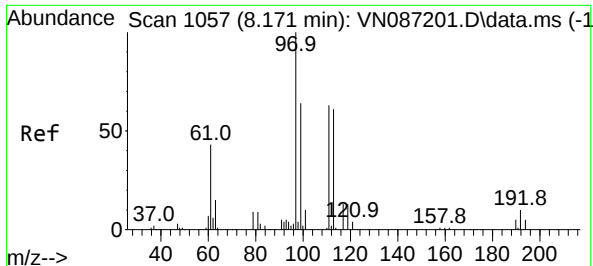
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

88 15.9 0.0 32.0

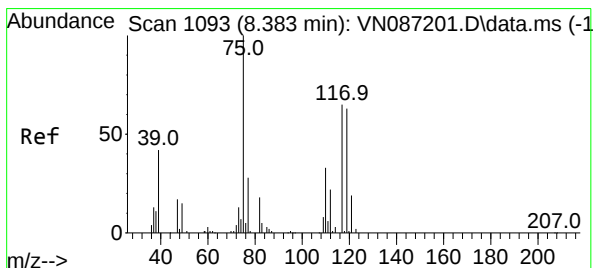
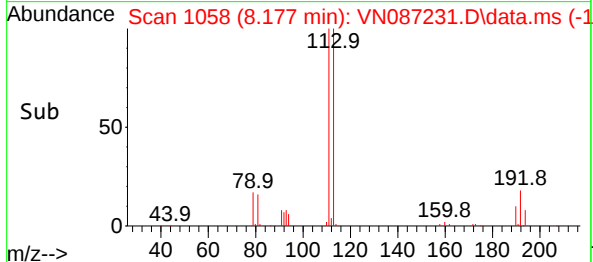
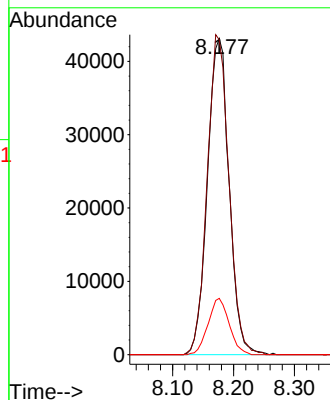
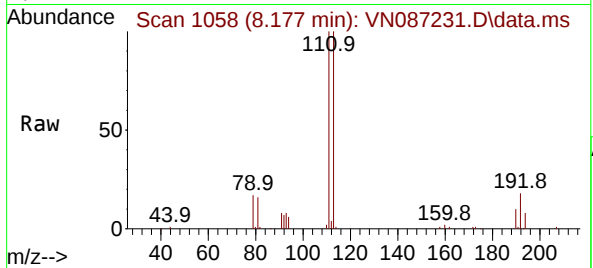




#35
 Dibromofluoromethane
 Concen: 47.412 ug/l
 RT: 8.177 min Scan# 1057
 Delta R.T. 0.006 min
 Lab File: VN087231.D
 Acq: 27 Jun 2025 18:25

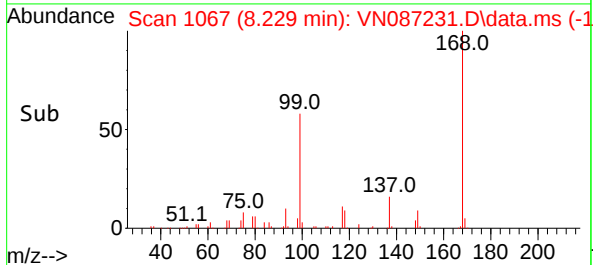
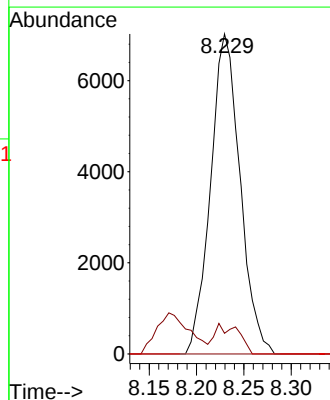
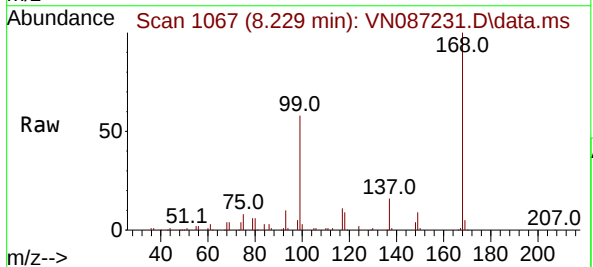
Instrument :
 MSVOA_N
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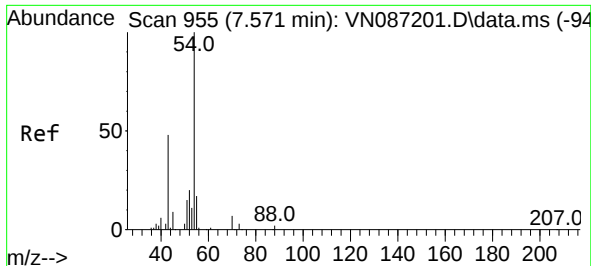
Tgt Ion:113 Resp: 106715
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.6 124.0
 192 17.3 13.5 20.3



#36
 1,1-Dichloropropene
 Concen: 4.622 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.153 min
 Lab File: VN087231.D
 Acq: 27 Jun 2025 18:25

Tgt Ion: 75 Resp: 15237
 Ion Ratio Lower Upper
 75 100
 110 7.6 16.9 50.6#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.367 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

WC-1

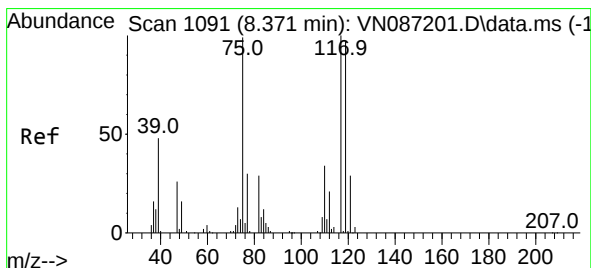
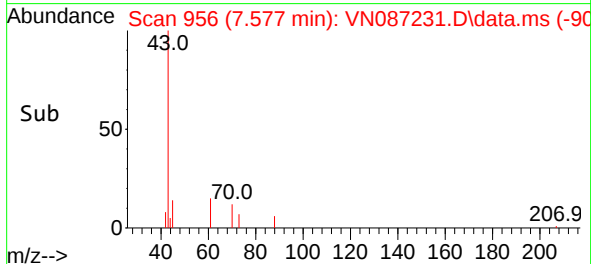
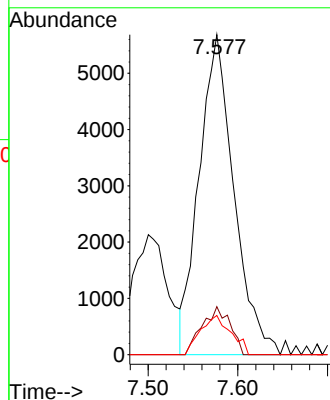
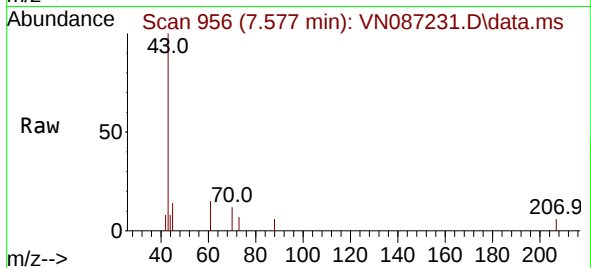
Tgt Ion: 43 Resp: 15289

Ion Ratio Lower Upper

43 100

61 12.1 10.8 16.2

70 10.7 8.9 13.3



#38

Carbon Tetrachloride

Concen: 5.933 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

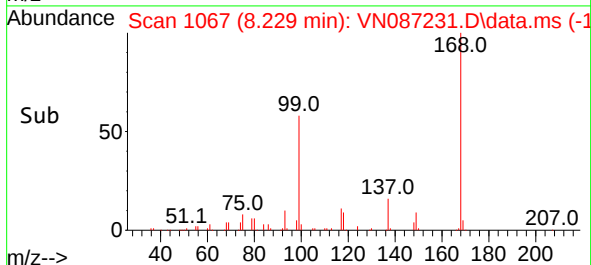
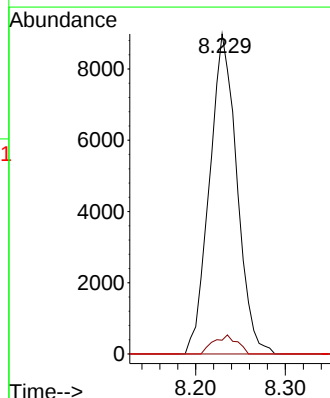
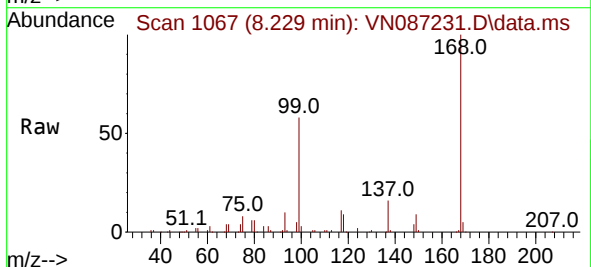
Tgt Ion: 117 Resp: 19051

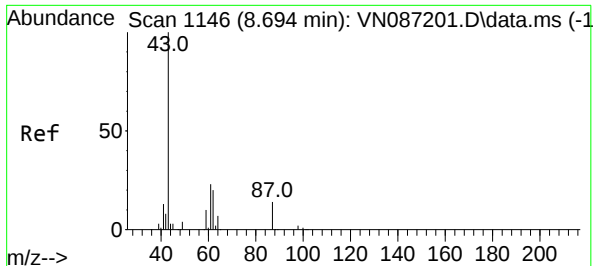
Ion Ratio Lower Upper

117 100

119 4.3 77.4 116.0#

121 0.0 23.2 34.8#

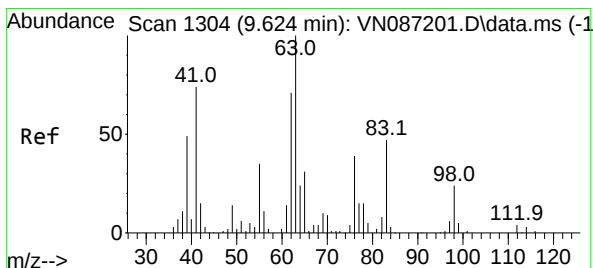
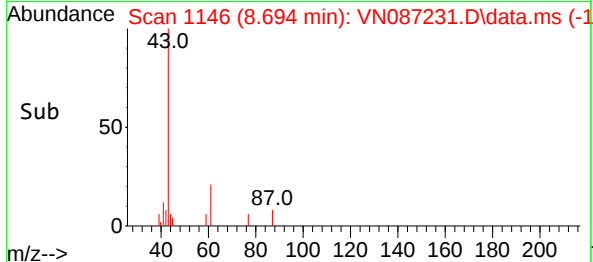
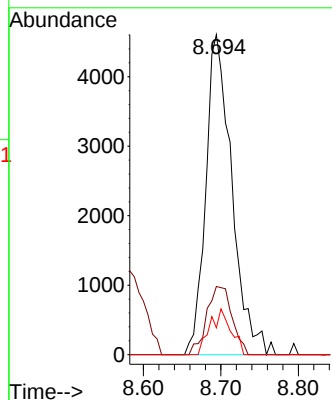
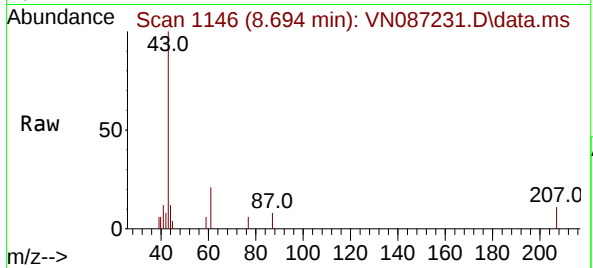




#43
Isopropyl Acetate
Concen: 1.777 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

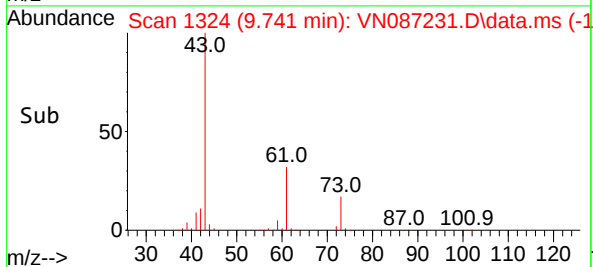
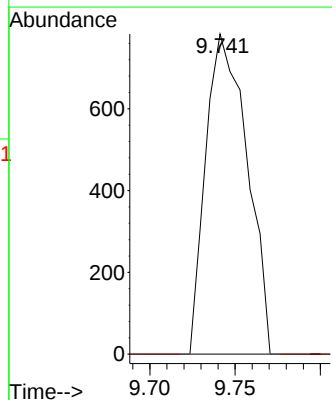
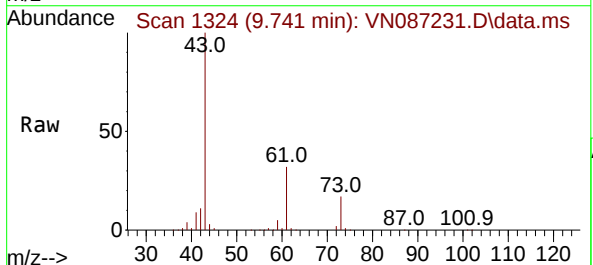
Instrument :
MSVOA_N
ClientSampleId :
WC-1

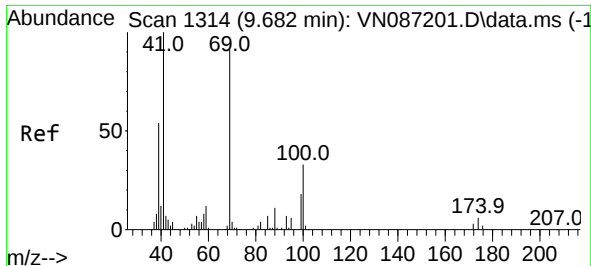
Tgt Ion: 43 Resp: 10771
Ion Ratio Lower Upper
43 100
61 20.7 21.0 31.6#
87 11.4 11.0 16.6



#45
1,2-Dichloropropane
Concen: 0.503 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.117 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 63 Resp: 1322
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

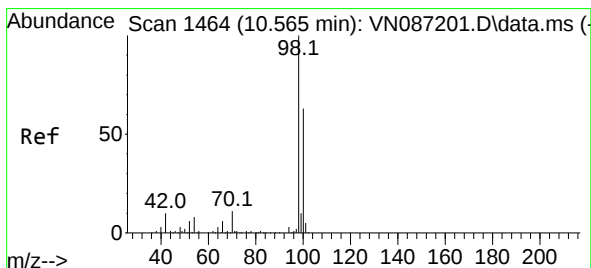
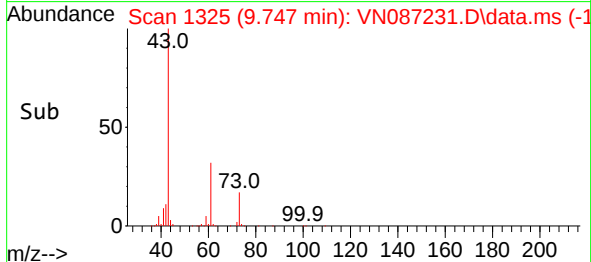
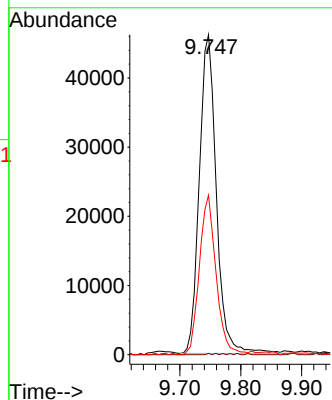
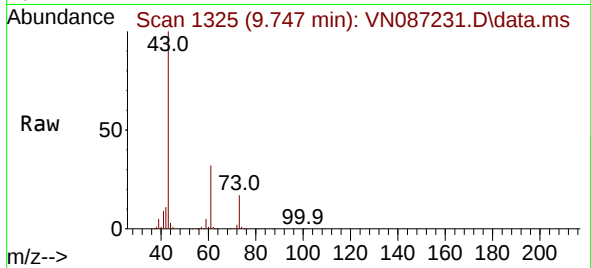




#48
Methyl methacrylate
Concen: 30.448 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

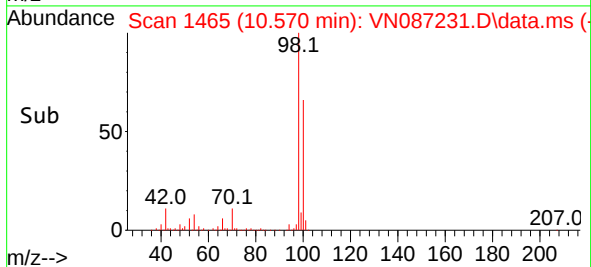
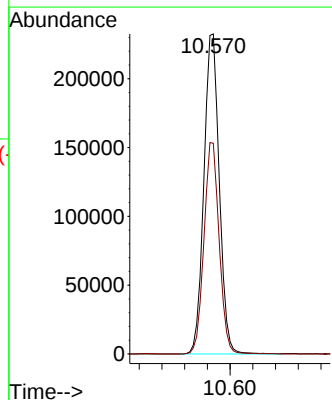
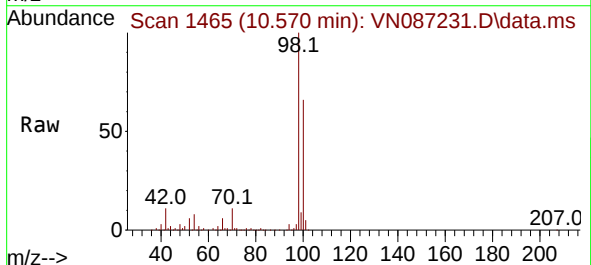
Instrument :
MSVOA_N
ClientSampleId :
WC-1

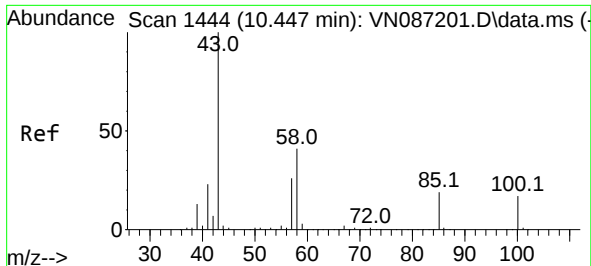
Tgt Ion: 41 Resp: 89223
Ion Ratio Lower Upper
41 100
69 0.1 69.9 104.9#
39 49.2 43.8 65.6



#50
Toluene-d8
Concen: 46.888 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 98 Resp: 436488
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1

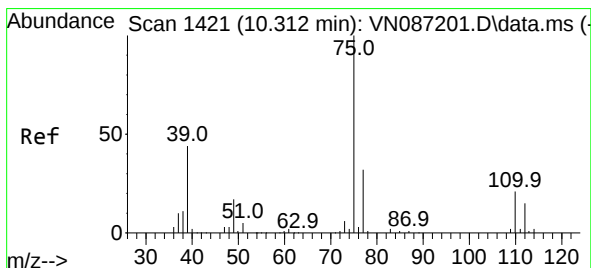
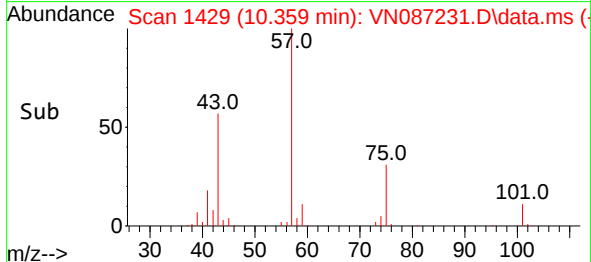
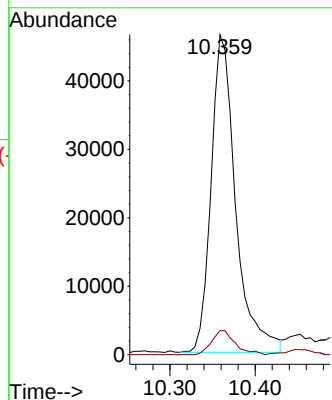
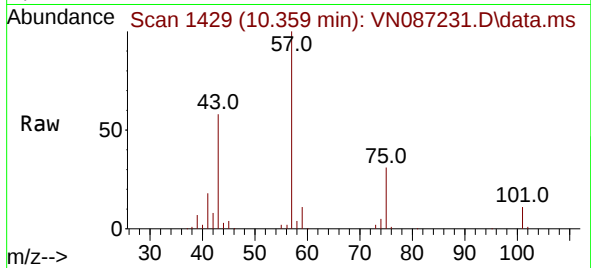




#51
4-Methyl-2-Pentanone
Concen: 18.809 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

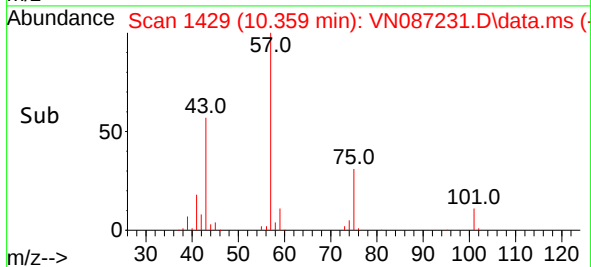
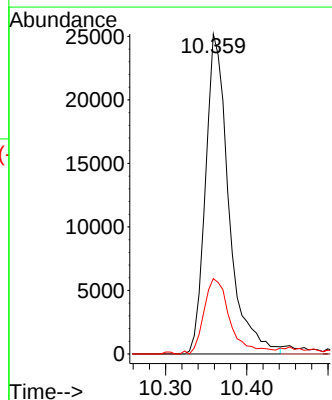
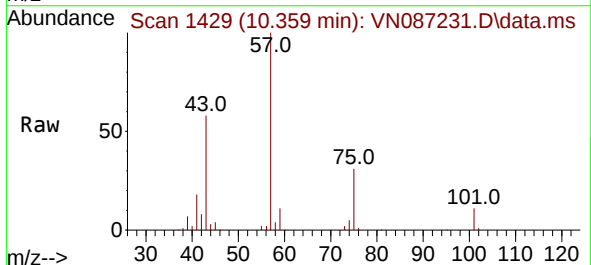
Instrument :
MSVOA_N
ClientSampleId :
WC-1

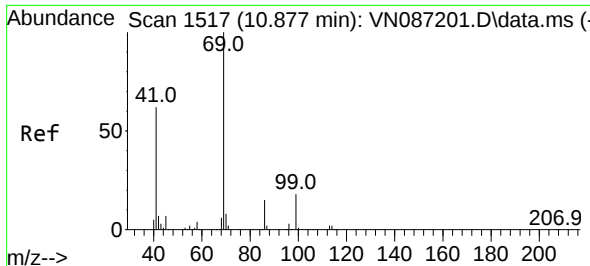
Tgt Ion: 43 Resp: 93037
Ion Ratio Lower Upper
43 100
58 7.3 32.6 48.8#



#54
cis-1,3-Dichloropropene
Concen: 11.850 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 75 Resp: 50242
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#
39 23.5 34.9 52.3#

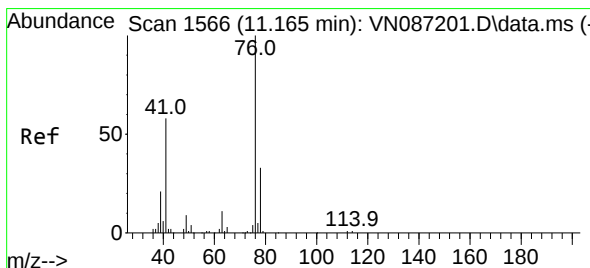
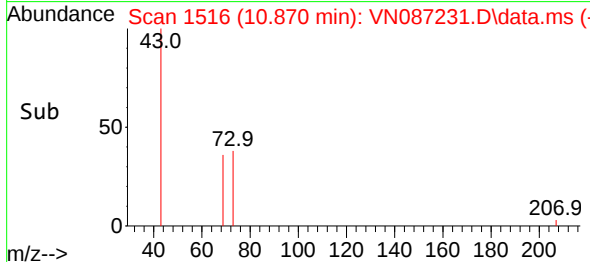
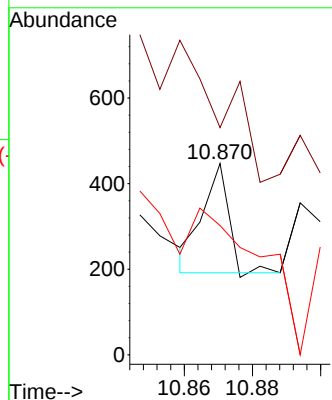
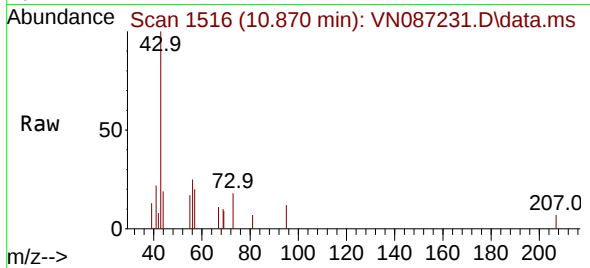




#56
Ethyl methacrylate
Concen: Below Cal
RT: 10.870 min Scan# 11
Delta R.T. -0.007 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

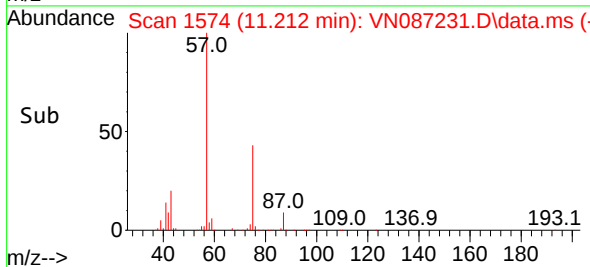
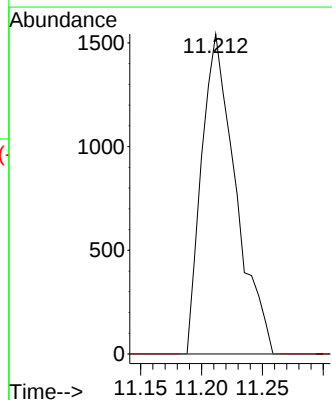
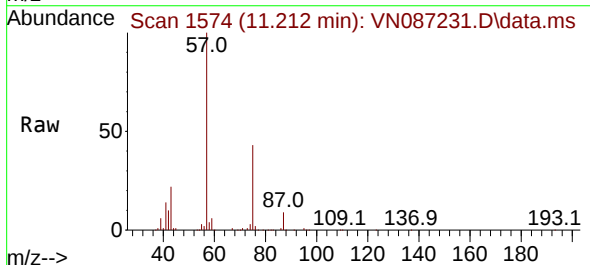
Instrument :
MSVOA_N
ClientSampleId :
WC-1

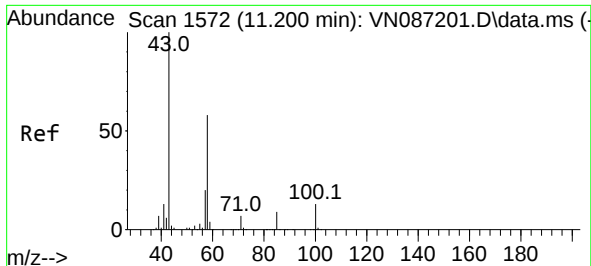
Tgt Ion: 69 Resp: 133
Ion Ratio Lower Upper
69 100
41 0.0 48.4 72.6#
39 0.0 24.1 36.1#



#57
1,3-Dichloropropane
Concen: 0.689 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 76 Resp: 2999
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

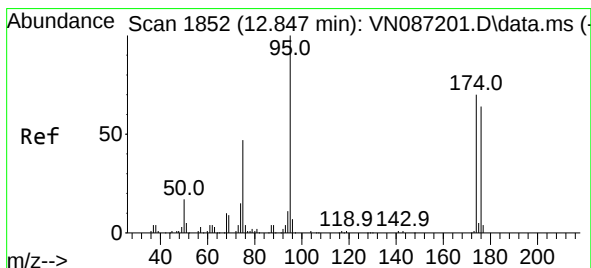
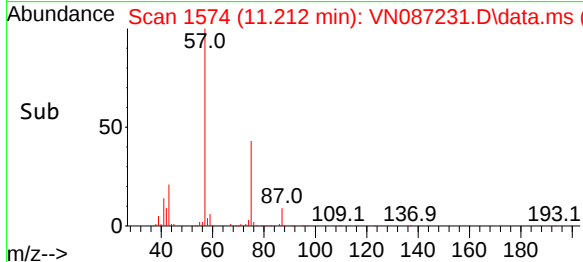
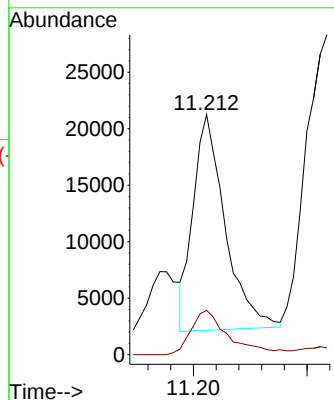
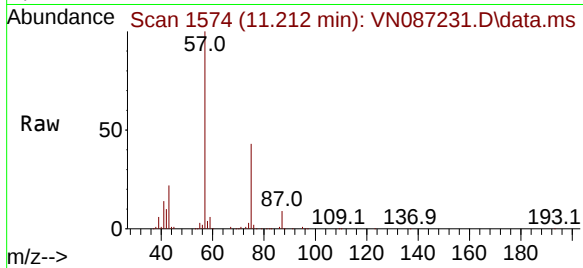




#59
2-Hexanone
Concen: 13.823 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

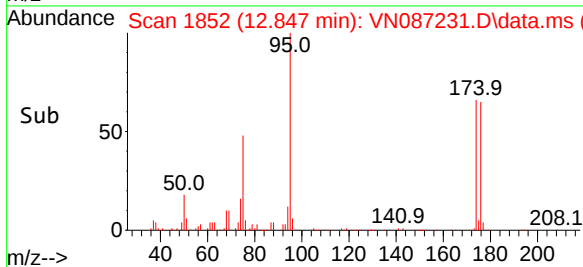
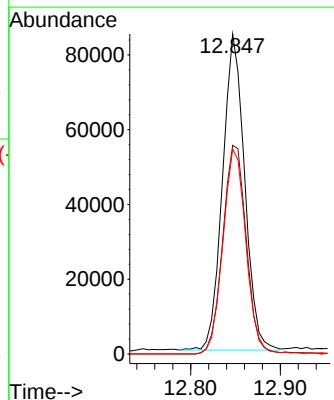
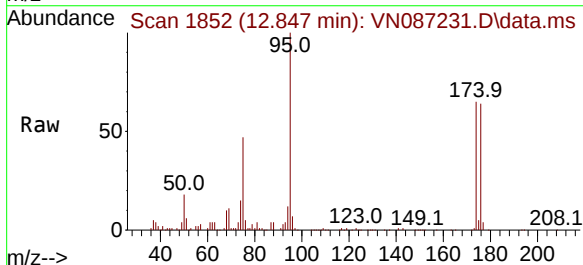
Instrument :
MSVOA_N
ClientSampleId :
WC-1

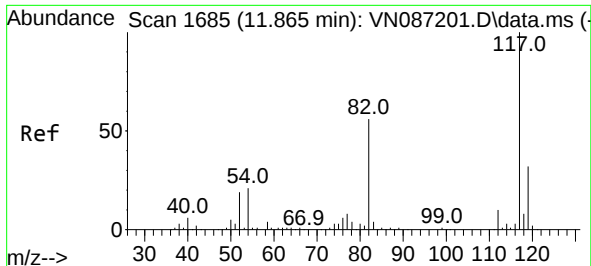
Tgt Ion: 43 Resp: 37274
Ion Ratio Lower Upper
43 100
58 24.4 31.1 93.3#



#62
4-Bromofluorobenzene
Concen: 44.682 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion: 95 Resp: 144331
Ion Ratio Lower Upper
95 100
174 70.7 0.0 142.2
176 67.9 0.0 134.8

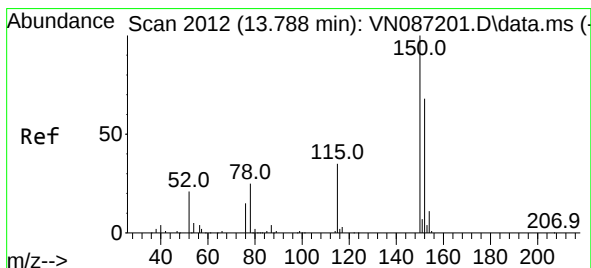
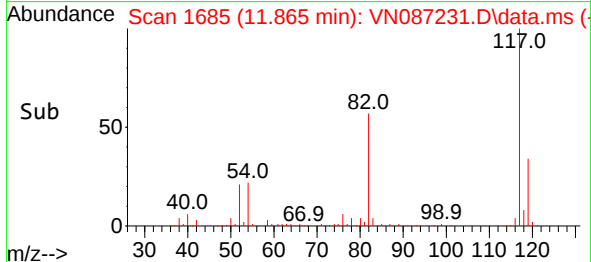
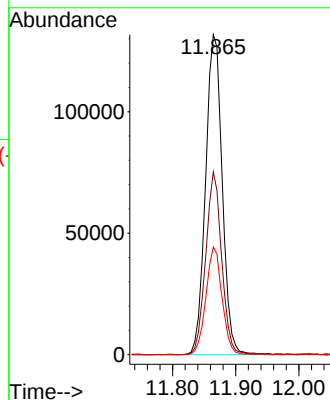
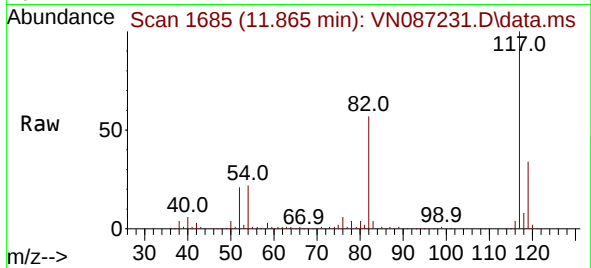




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

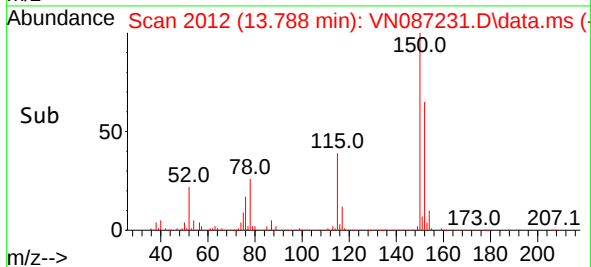
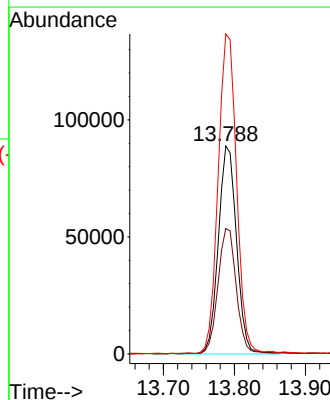
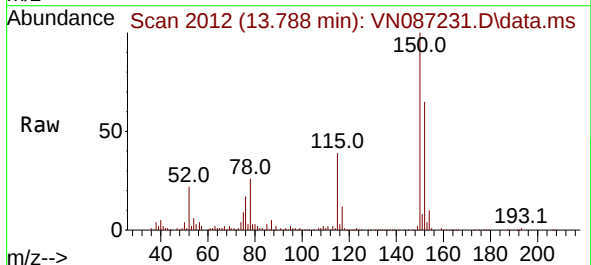
Instrument :
MSVOA_N
ClientSampleId :
WC-1

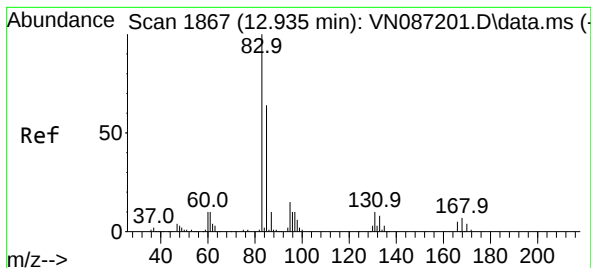
Tgt Ion:117 Resp: 241287
Ion Ratio Lower Upper
117 100
82 57.2 45.0 67.4
119 33.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087231.D
Acq: 27 Jun 2025 18:25

Tgt Ion:152 Resp: 157911
Ion Ratio Lower Upper
152 100
115 60.1 30.6 91.8
150 155.6 0.0 347.8





#75

1,1,2-Tetrachloroethane

Concen: 0.220 ug/l

RT: 13.164 min Scan# 1867

Delta R.T. 0.229 min

Lab File: VN087231.D

Acq: 27 Jun 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

WC-1

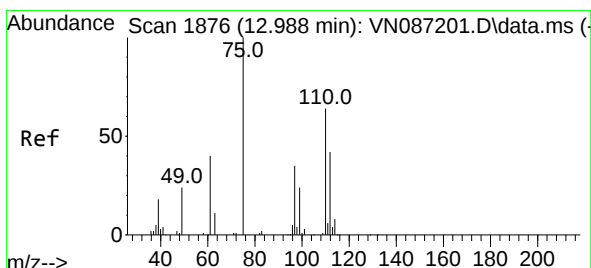
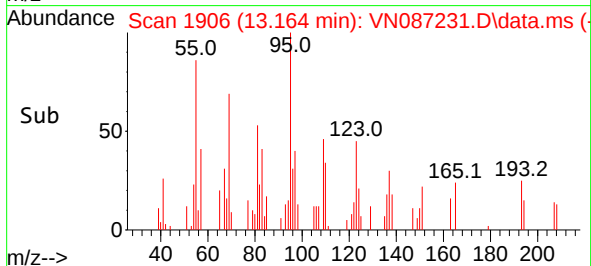
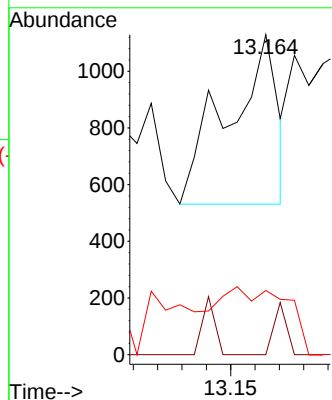
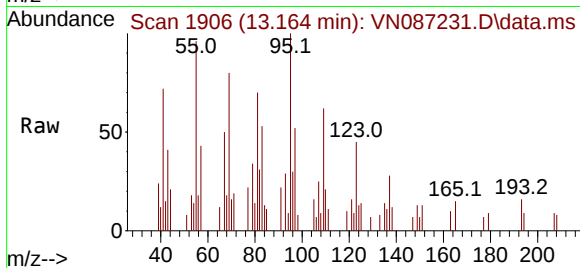
Tgt Ion: 83 Resp: 848

Ion Ratio Lower Upper

83 100

131 7.7 4.8 14.4

85 58.4 32.1 96.5



#76

1,2,3-Trichloropropane

Concen: 20.325 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN087231.D

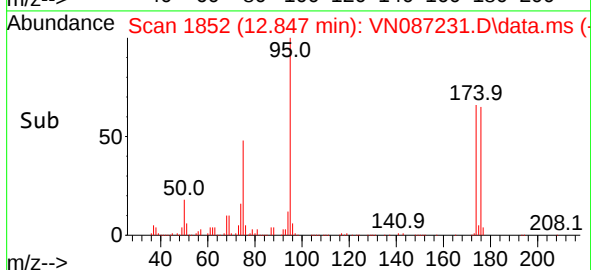
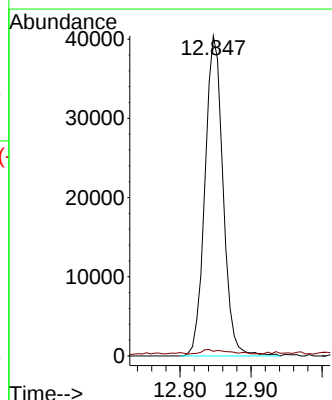
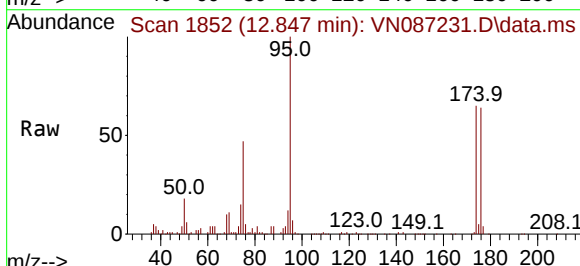
Acq: 27 Jun 2025 18:25

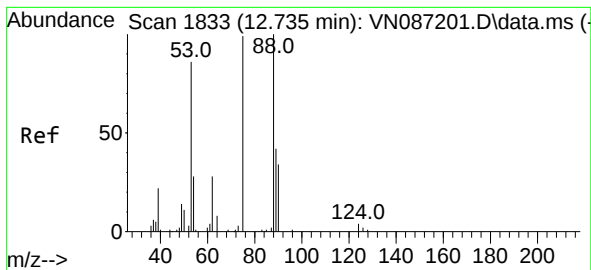
Tgt Ion: 75 Resp: 71609

Ion Ratio Lower Upper

75 100

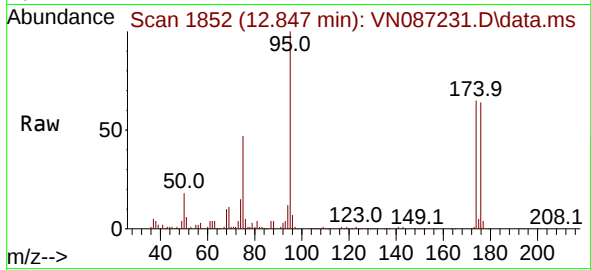
77 2.1 85.5 256.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 45.617 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087231.D
 Acq: 27 Jun 2025 18:25

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1



Tgt Ion: 75 Resp: 71609
 Ion Ratio Lower Upper
 75 100
 53 0.8 71.4 107.0#
 89 0.0 37.9 56.9#

