

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086601.D
 Acq On : 13 May 2025 14:59
 Operator : JC\MD
 Sample : PB167932ZHE#20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#20

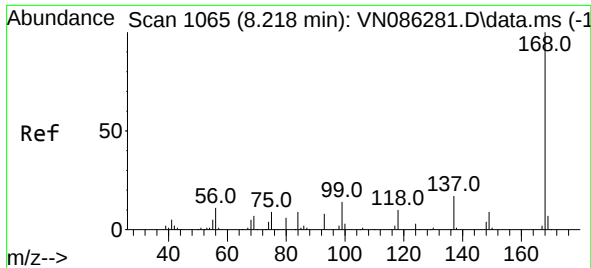
Quant Time: May 14 01:45:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	165560	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	314395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	314041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117116	48.783	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.560%
35) Dibromofluoromethane	8.165	113	94109	64.496	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	129.000%#
50) Toluene-d8	10.565	98	413412	53.012	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.020%
62) 4-Bromofluorobenzene	12.847	95	148507	52.210	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.420%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	808	0.283	ug/l #	42
11) Tert butyl alcohol	5.512	59	204	0.466	ug/l #	72
16) Acetone	4.430	43	23840	23.552	ug/l	96
18) Methyl Acetate	5.024	43	3521	1.222	ug/l	90
20) Methylene Chloride	5.277	84	4594	2.070	ug/l #	84
25) 2-Butanone	7.489	43	3413	2.284	ug/l #	71
29) Tetrahydrofuran	7.841	42	742	0.743	ug/l #	46
31) Cyclohexane	8.224	56	3707	0.953	ug/l #	2
36) 1,1-Dichloropropene	8.230	75	13563	4.654	ug/l #	50
38) Carbon Tetrachloride	8.218	117	16441	5.924	ug/l #	16
43) Isopropyl Acetate	8.688	43	38787	5.273	ug/l #	75
45) 1,2-Dichloropropane	9.735	63	825	0.361	ug/l #	43
48) Methyl methacrylate	9.741	41	64411	23.905	ug/l #	42
49) 1,4-Dioxane	9.735	88	53	1.156	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	2684	0.854	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	31109	8.067	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	2817	0.757	ug/l #	43
59) 2-Hexanone	11.200	43	52138	22.372	ug/l #	44
71) Bromoform	12.847	173	866	0.497	ug/l #	1
74) N-amyl acetate	12.459	43	2459	0.461	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	75634	24.477	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75634	58.784	ug/l #	10

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

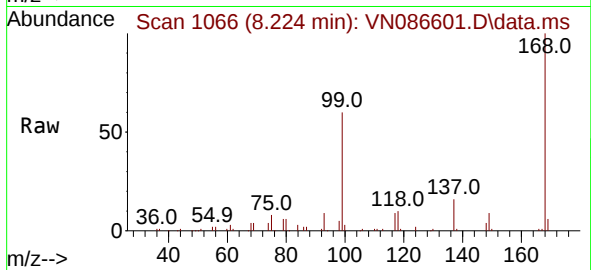
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Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



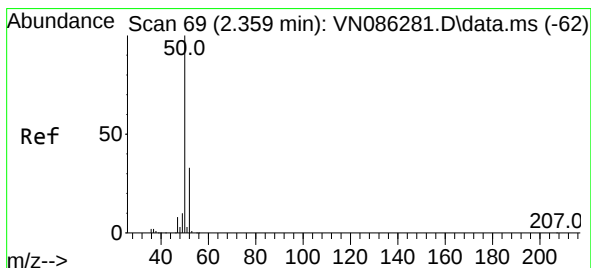
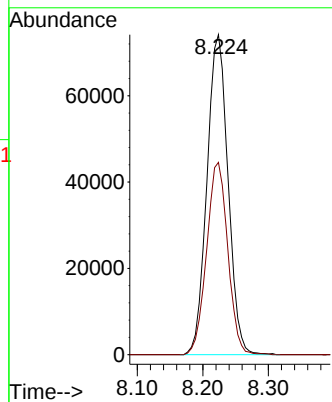
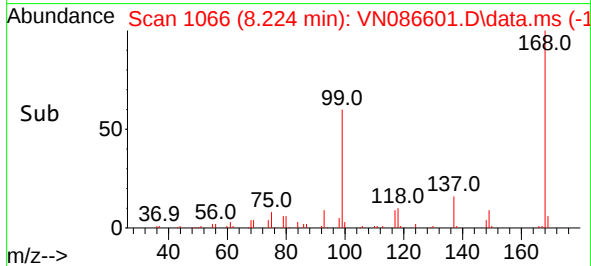


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

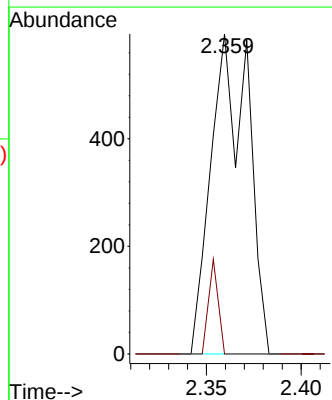
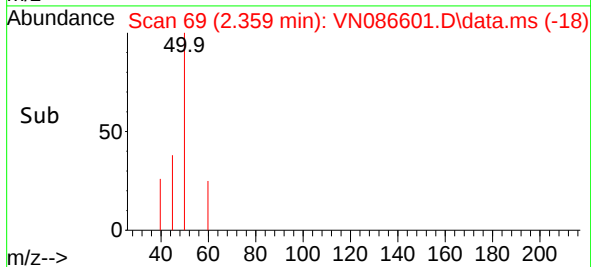
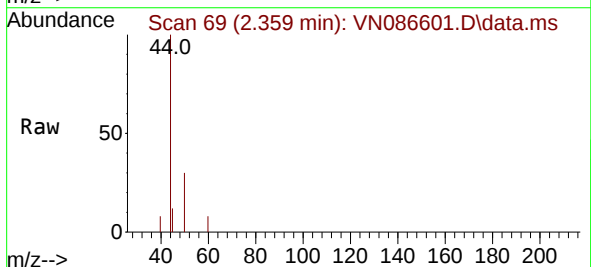


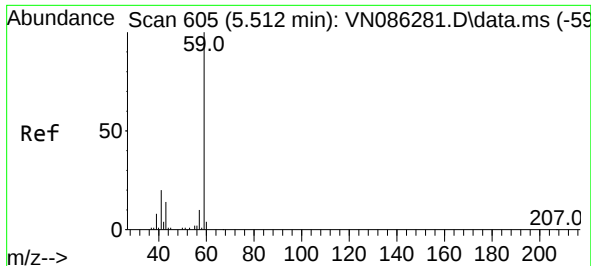
Tgt Ion:168 Resp: 165560
Ion Ratio Lower Upper
168 100
99 60.1 52.5 78.7



#3
Chloromethane
Concen: 0.283 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 50 Resp: 808
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

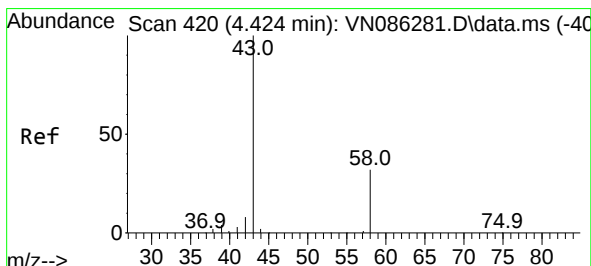
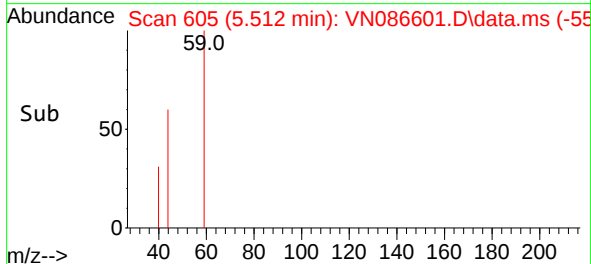
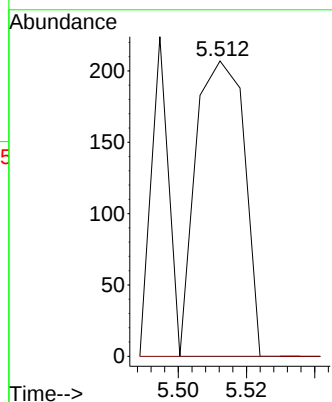
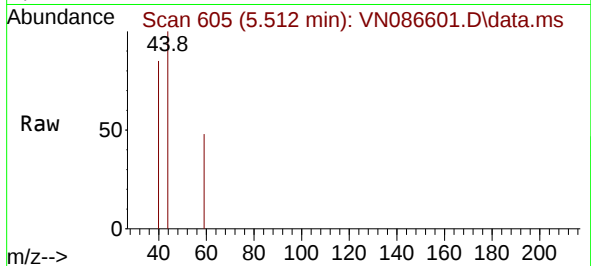




#11
Tert butyl alcohol
Concen: 0.466 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

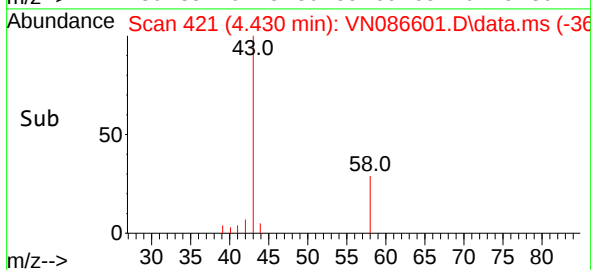
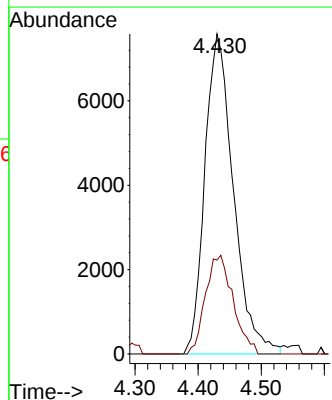
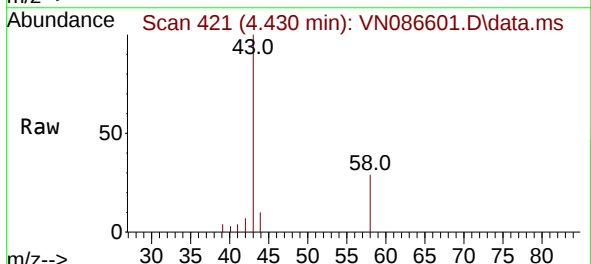
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MSVOA_N
ClientSampleId :
PB167932ZHE#20

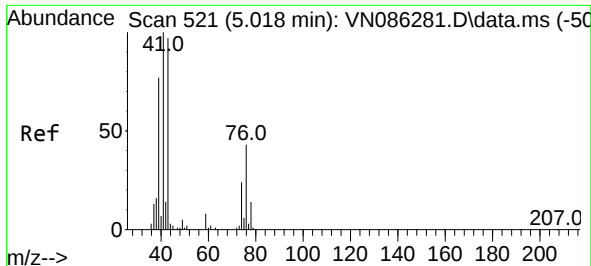
Tgt Ion: 59 Resp: 204
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 23.552 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 43 Resp: 23840
Ion Ratio Lower Upper
43 100
58 29.3 25.3 37.9

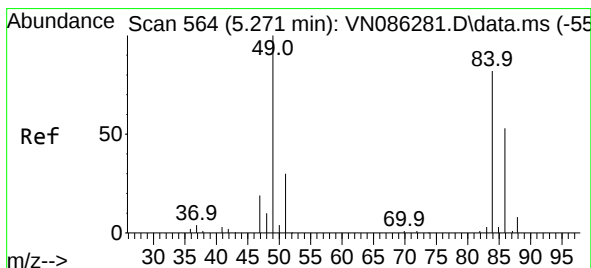
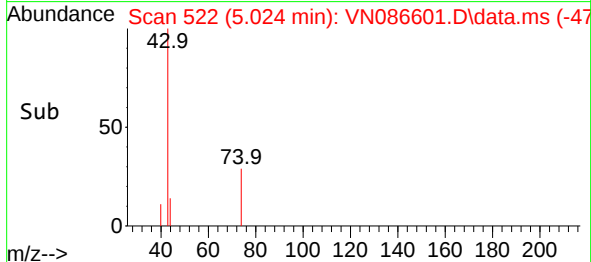
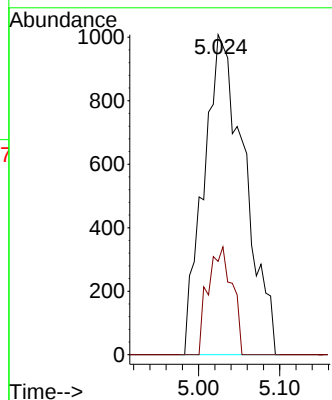
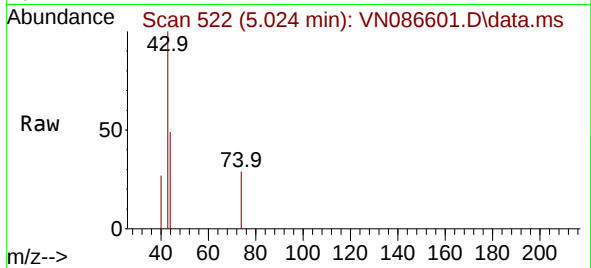




#18
Methyl Acetate
Concen: 1.222 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

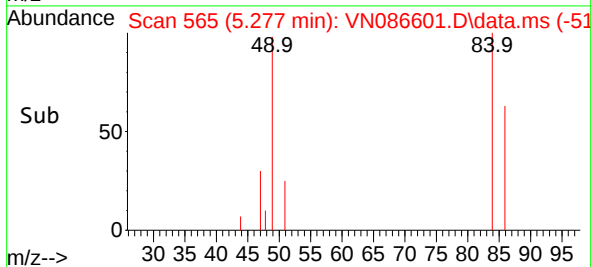
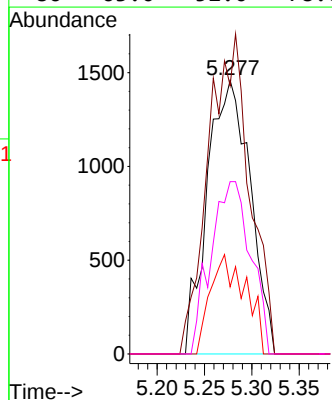
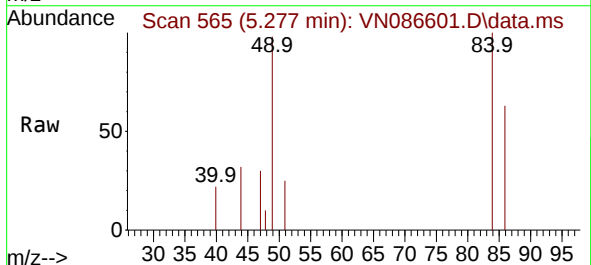
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

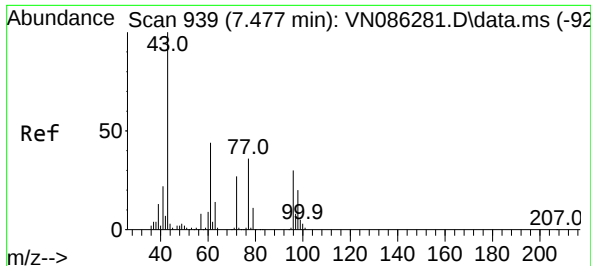
Tgt Ion: 43 Resp: 3521
Ion Ratio Lower Upper
43 100
74 19.9 19.8 29.6



#20
Methylene Chloride
Concen: 2.070 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 84 Resp: 4594
Ion Ratio Lower Upper
84 100
49 98.0 98.2 147.2#
51 24.5 29.8 44.6#
86 63.0 52.0 78.0

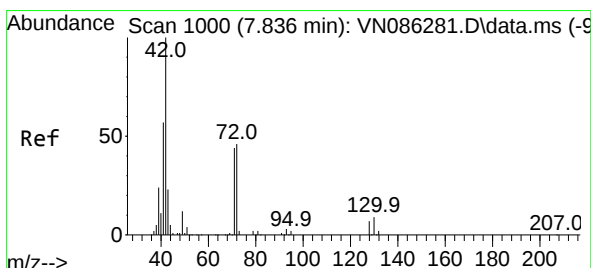
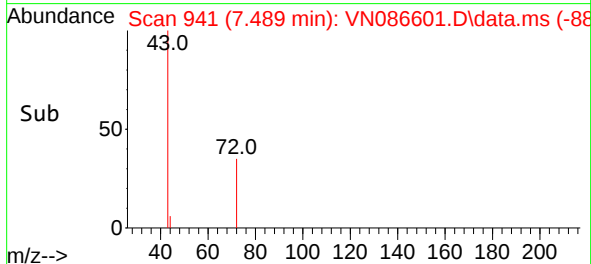
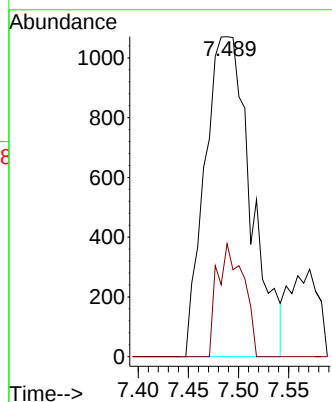
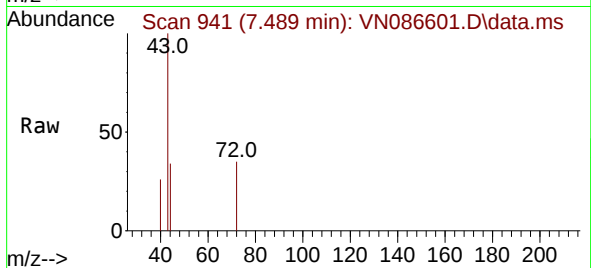




#25
2-Butanone
Concen: 2.284 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

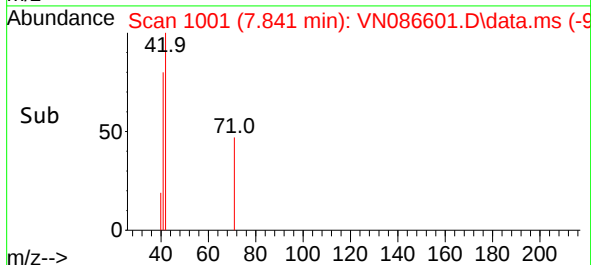
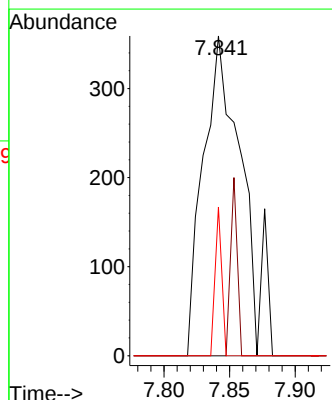
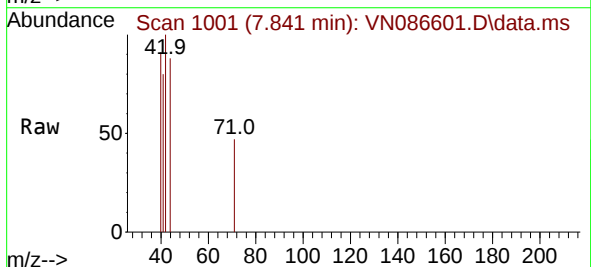
Instrument :
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ClientSampleId :
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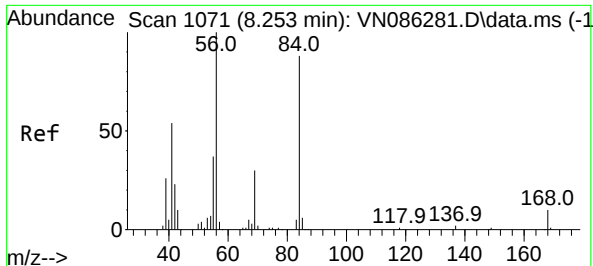
Tgt Ion: 43 Resp: 3413
Ion Ratio Lower Upper
43 100
72 42.3 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.743 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

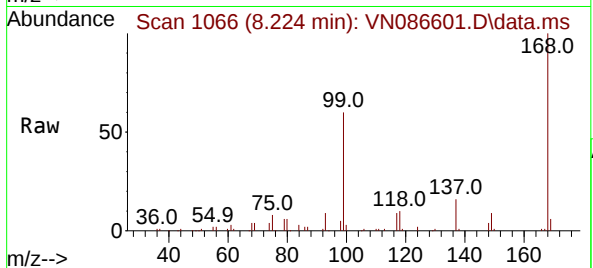
Tgt Ion: 42 Resp: 742
Ion Ratio Lower Upper
42 100
72 9.6 36.2 54.4#
71 8.0 34.0 51.0#



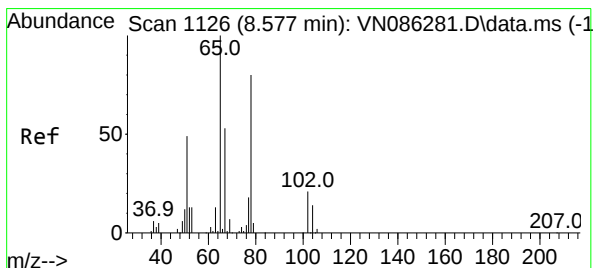
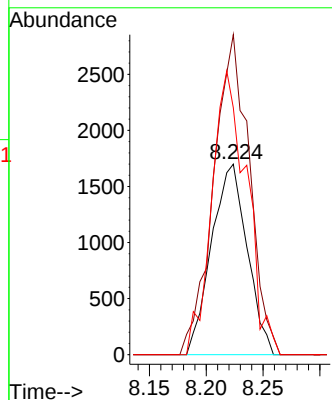
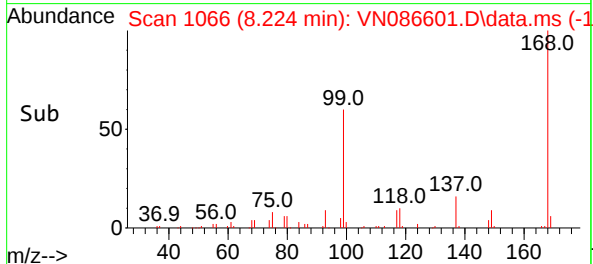


#31
Cyclohexane
Concen: 0.953 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

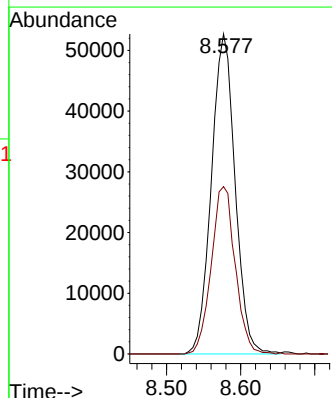
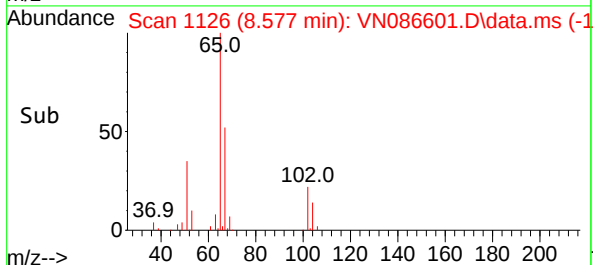
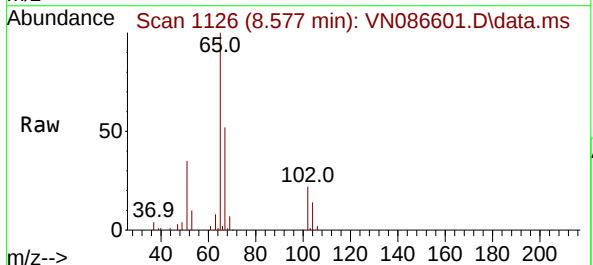


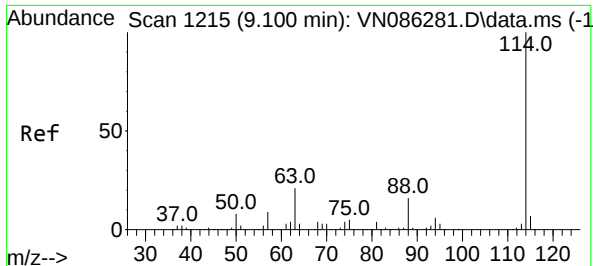
Tgt Ion: 56 Resp: 3707
Ion Ratio Lower Upper
56 100
69 167.9 24.2 36.2#
84 129.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.783 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 65 Resp: 117116
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.0

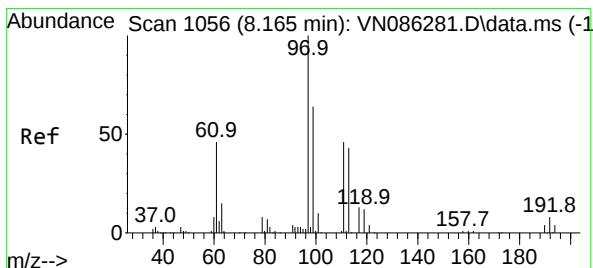
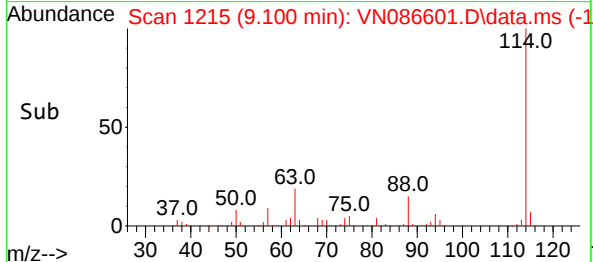
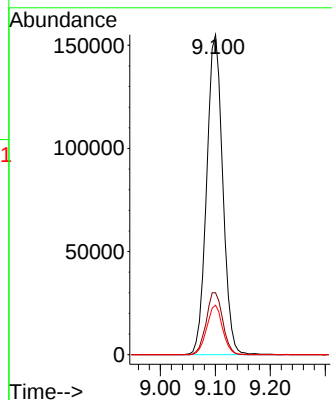
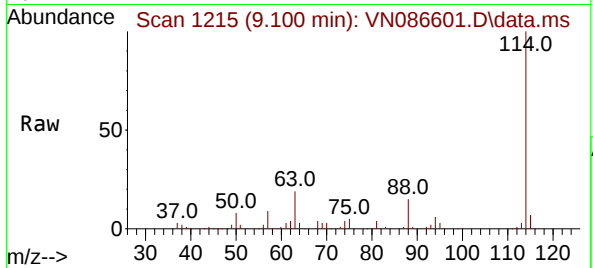




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

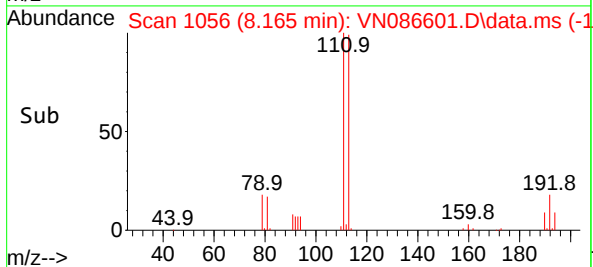
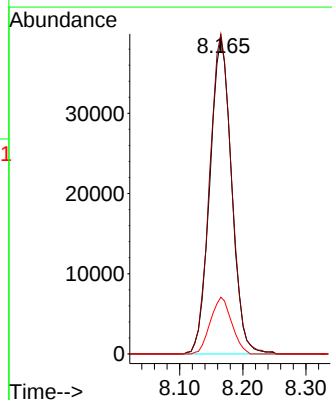
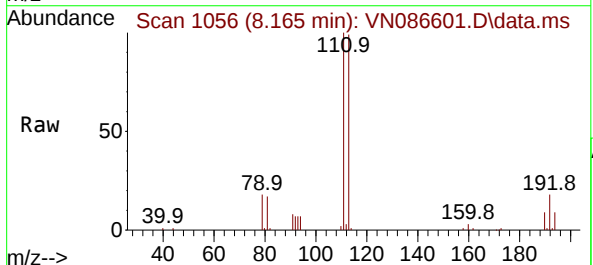
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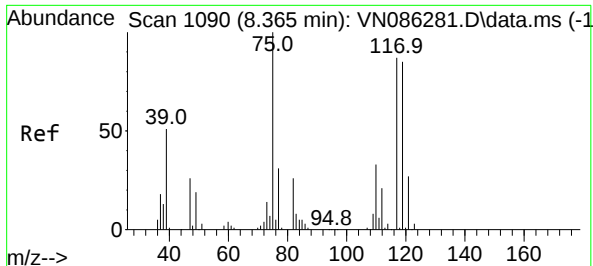
Tgt Ion:114 Resp: 314395
Ion Ratio Lower Upper
114 100
63 19.3 0.0 42.6
88 15.5 0.0 31.8



#35
Dibromofluoromethane
Concen: 64.496 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion:113 Resp: 94109
Ion Ratio Lower Upper
113 100
111 102.0 83.4 125.0
192 17.5 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.654 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN086601.D

Acq: 13 May 2025 14:59

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#20

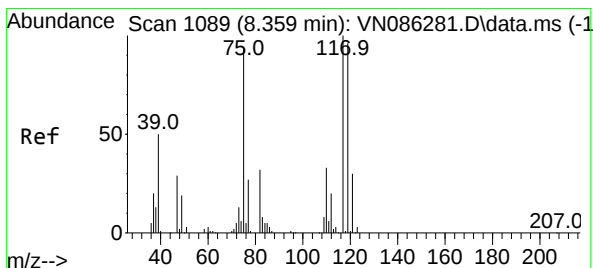
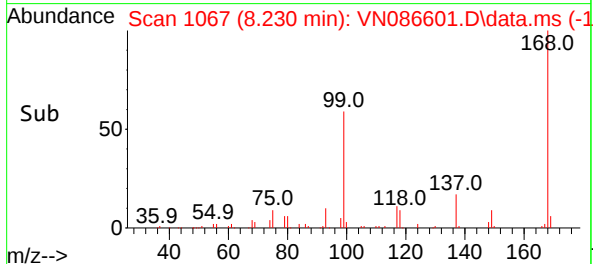
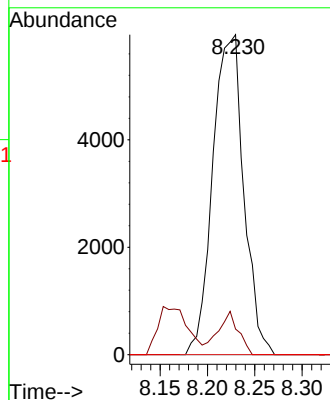
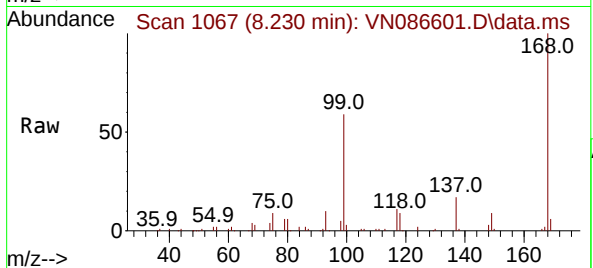
Tgt Ion: 75 Resp: 13563

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.924 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086601.D

Acq: 13 May 2025 14:59

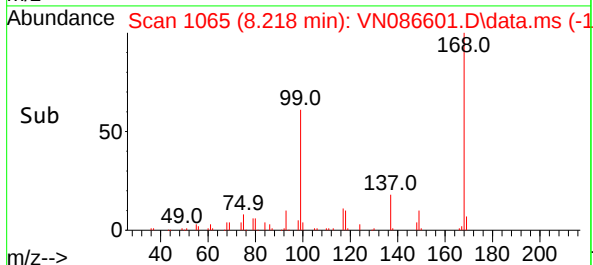
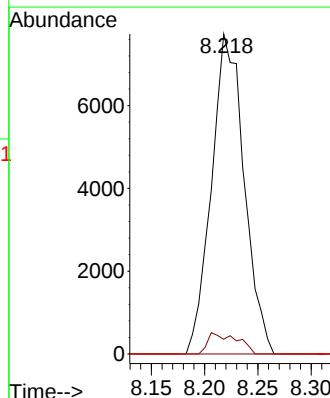
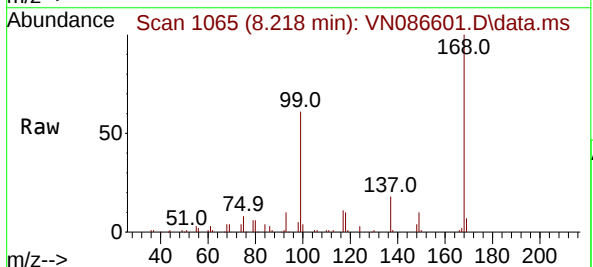
Tgt Ion: 117 Resp: 16441

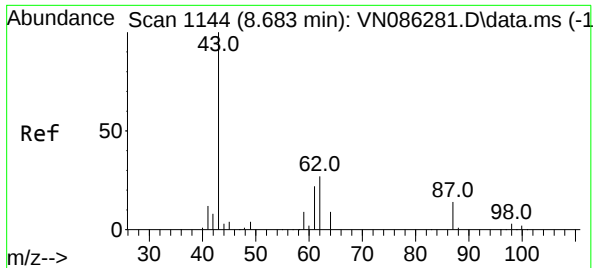
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 23.8 35.8#

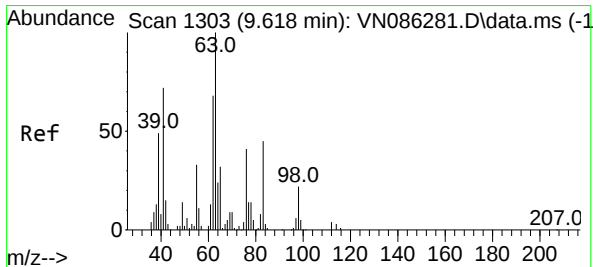
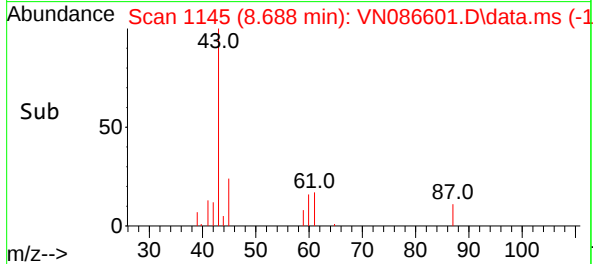
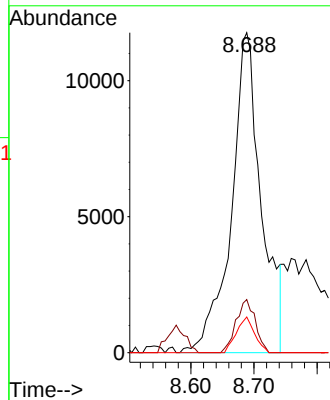
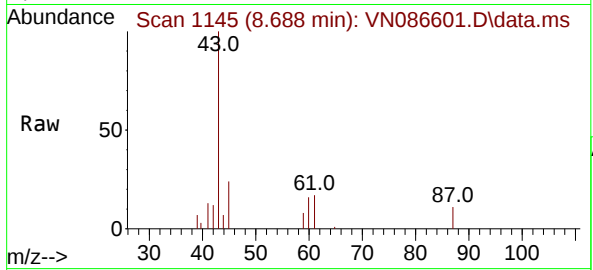




#43
Isopropyl Acetate
Concen: 5.273 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

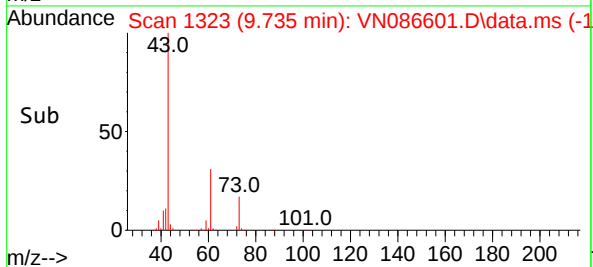
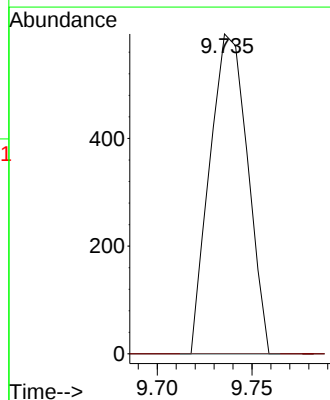
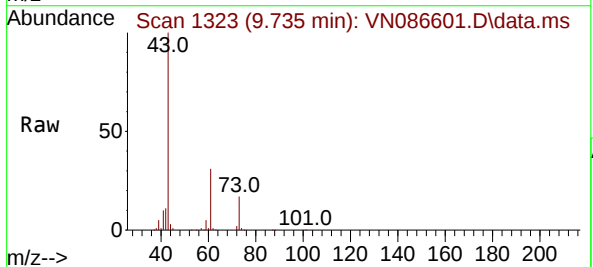
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

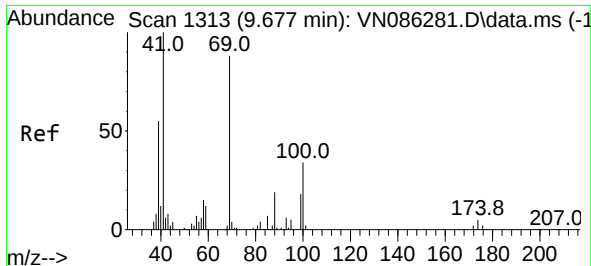
Tgt Ion: 43 Resp: 38787
Ion Ratio Lower Upper
43 100
61 10.7 20.5 30.7#
87 6.8 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.361 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 63 Resp: 825
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

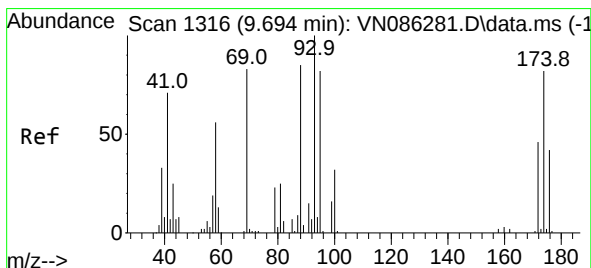
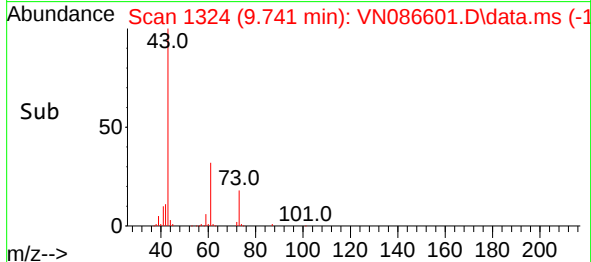
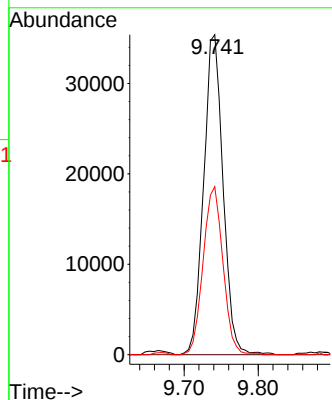
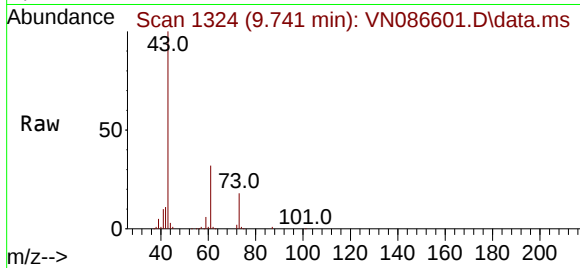




#48
Methyl methacrylate
Concen: 23.905 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

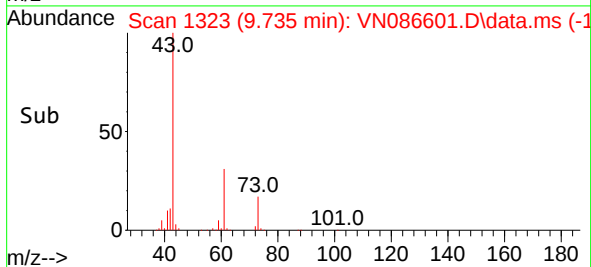
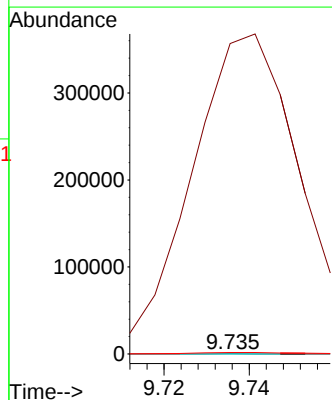
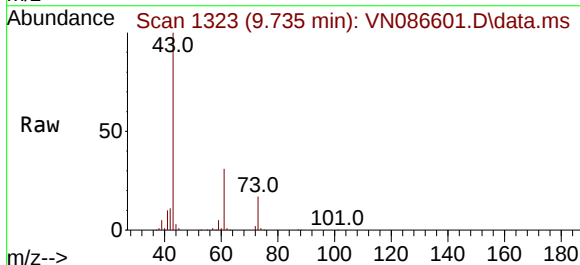
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

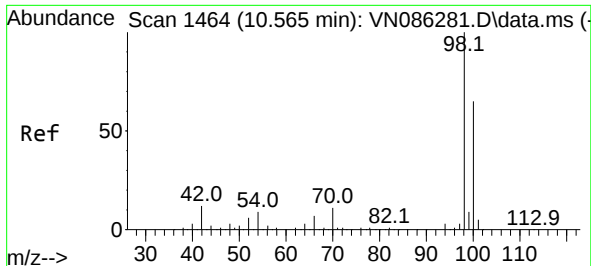
Tgt Ion: 41 Resp: 64411
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.7 45.2 67.8



#49
1,4-Dioxane
Concen: 1.156 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.041 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 1261505.7 23.8 35.8#
58 5849.1 57.4 86.2#

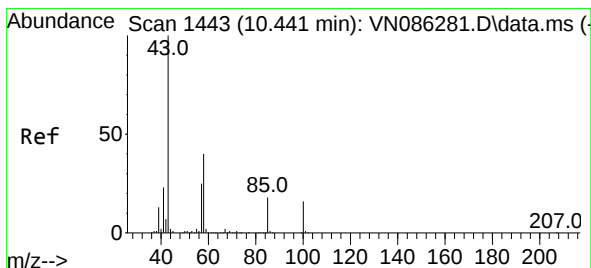
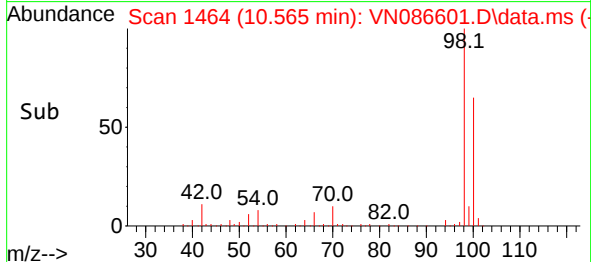
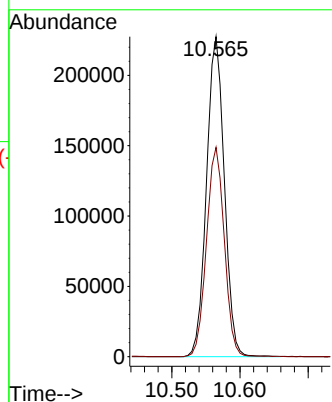
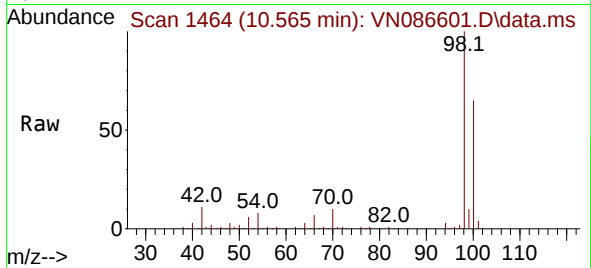




#50
Toluene-d8
Concen: 53.012 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

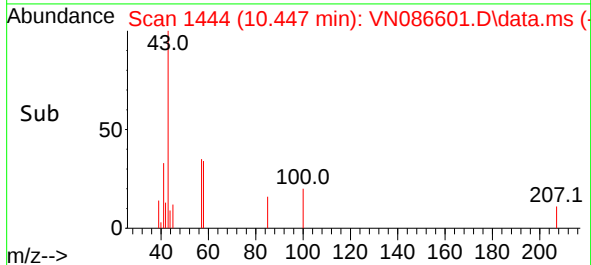
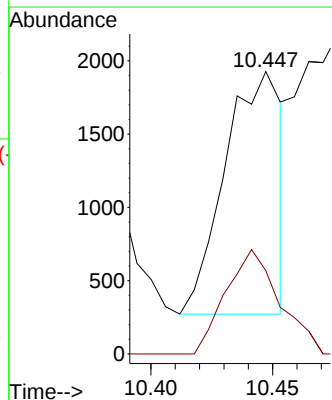
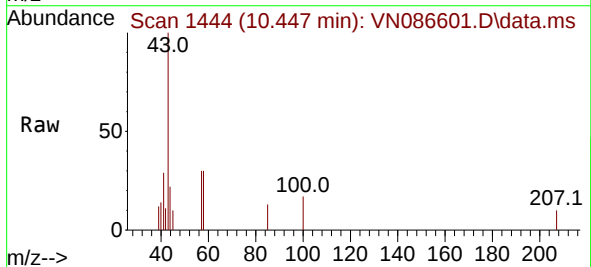
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

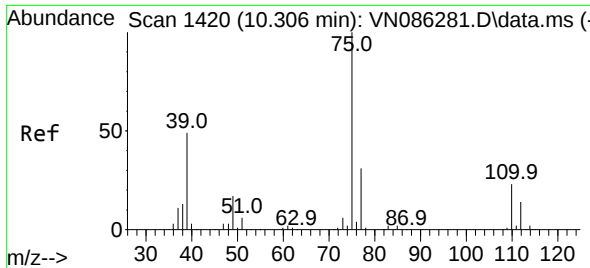
Tgt Ion: 98 Resp: 413412
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.854 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 43 Resp: 2684
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4

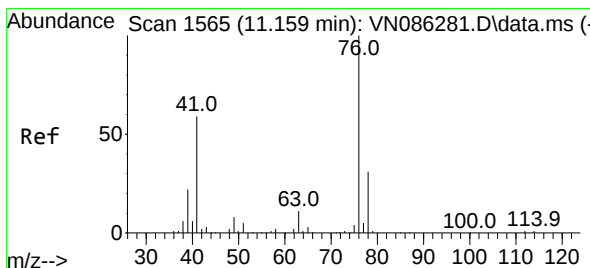
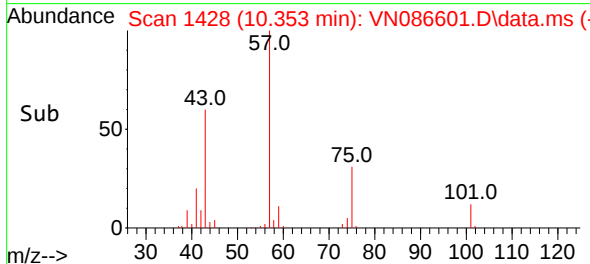
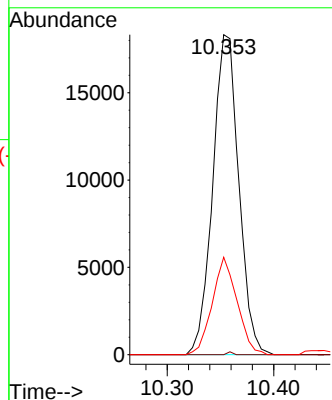
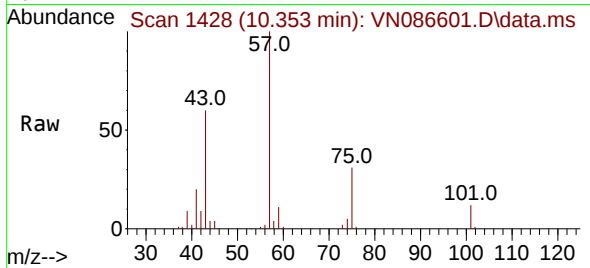




#54
 cis-1,3-Dichloropropene
 Concen: 8.067 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086601.D
 Acq: 13 May 2025 14:59

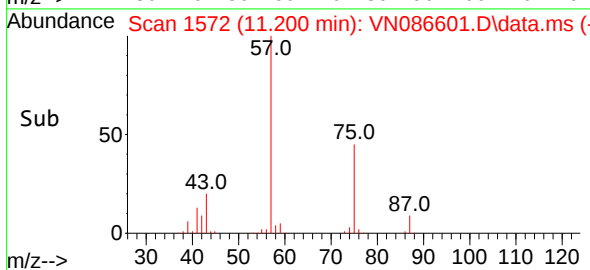
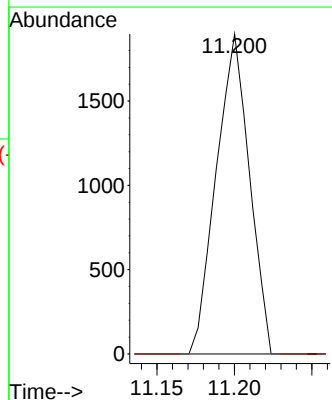
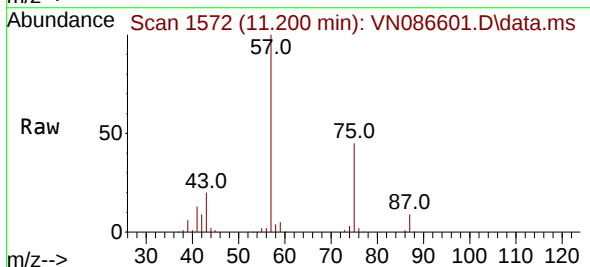
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#20

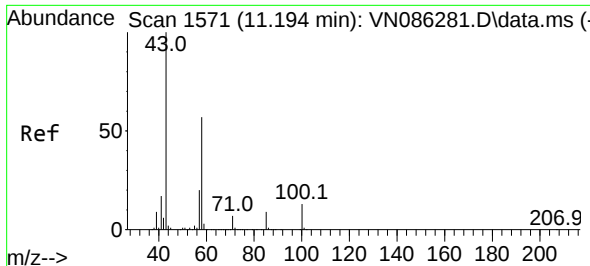
Tgt Ion: 75 Resp: 31109
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 30.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.757 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086601.D
 Acq: 13 May 2025 14:59

Tgt Ion: 76 Resp: 2817
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

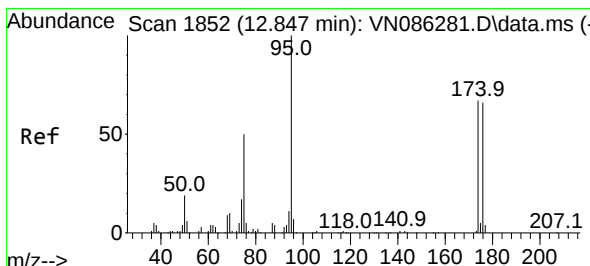
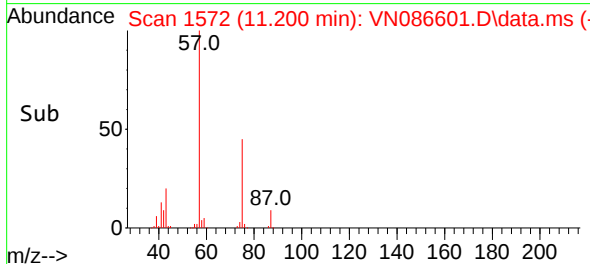
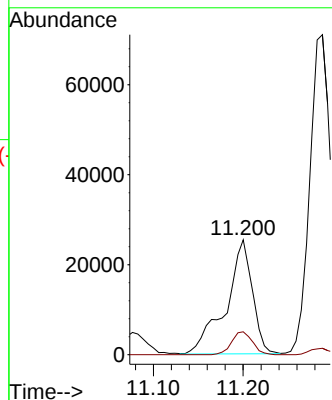
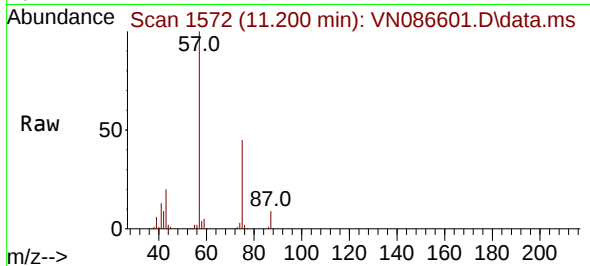




#59
2-Hexanone
Concen: 22.372 ug/l
RT: 11.200 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

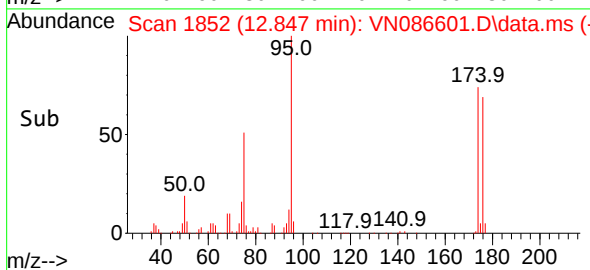
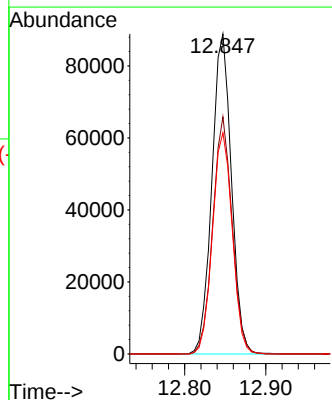
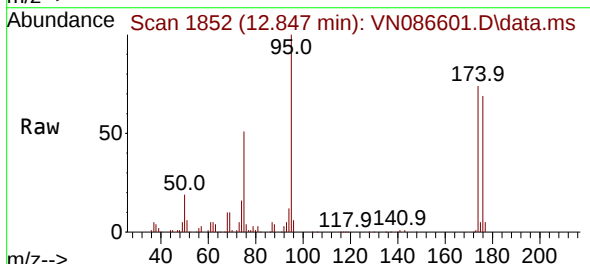
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

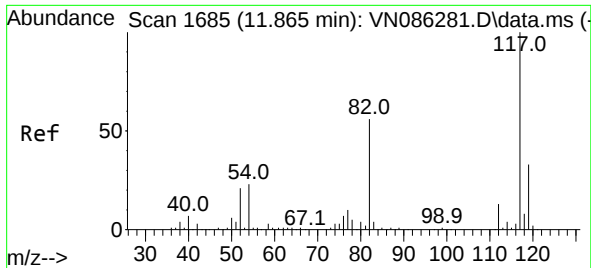
Tgt Ion: 43 Resp: 52138
Ion Ratio Lower Upper
43 100
58 15.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 52.210 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 95 Resp: 148507
Ion Ratio Lower Upper
95 100
174 73.6 0.0 133.4
176 70.0 0.0 129.2

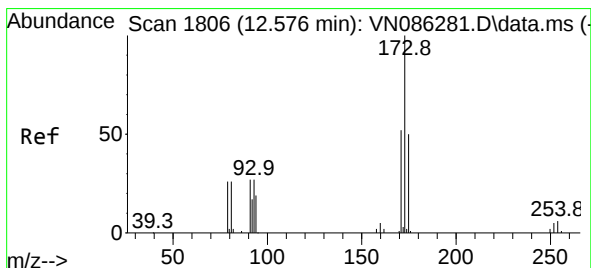
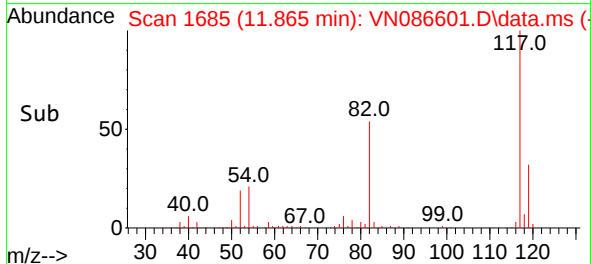
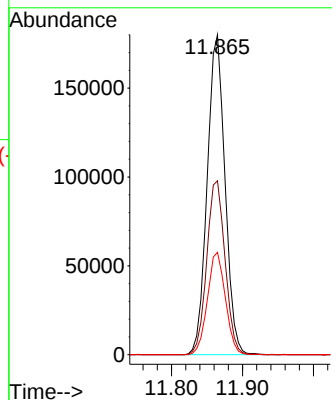
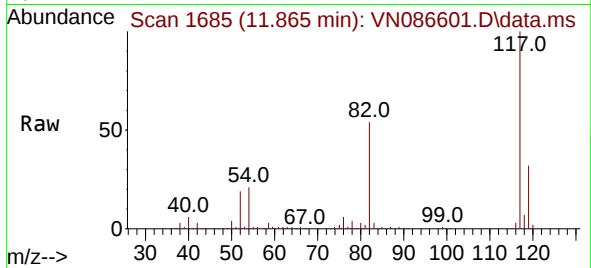




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

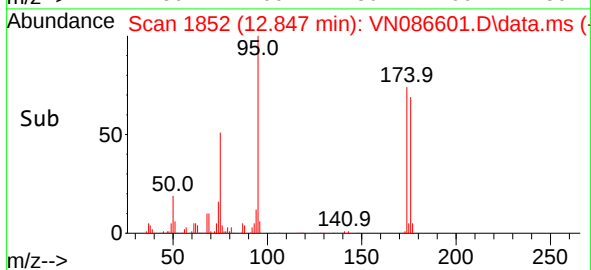
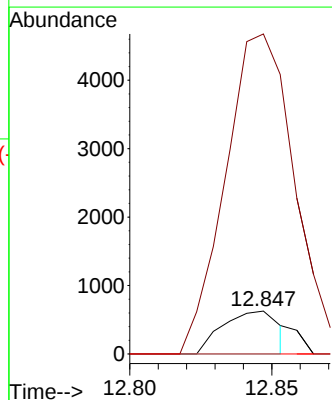
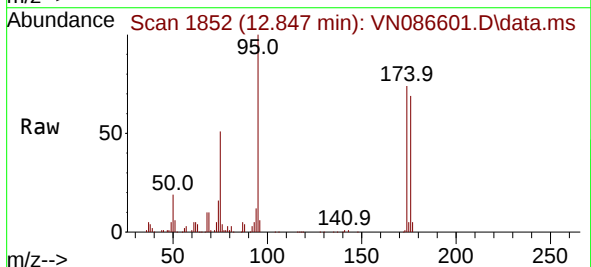
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

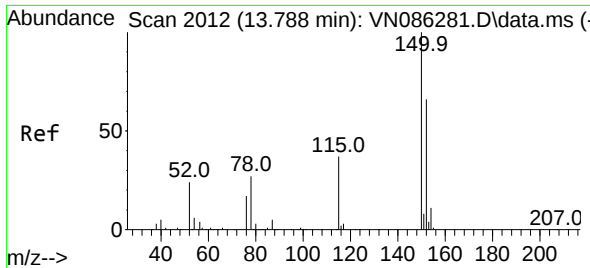
Tgt Ion:117 Resp: 314041
Ion Ratio Lower Upper
117 100
82 54.3 44.7 67.1
119 32.0 26.4 39.6



#71
Bromoform
Concen: 0.497 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion:173 Resp: 866
Ion Ratio Lower Upper
173 100
175 754.2 24.6 73.6#
254 0.0 0.0 0.0

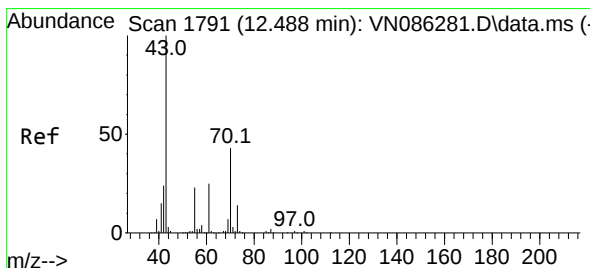
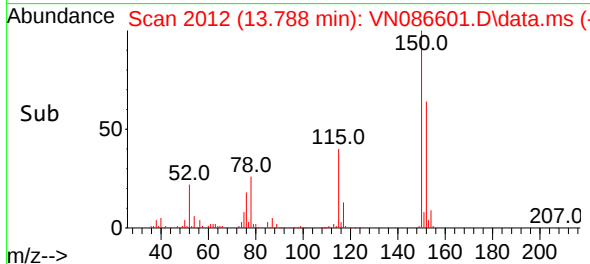
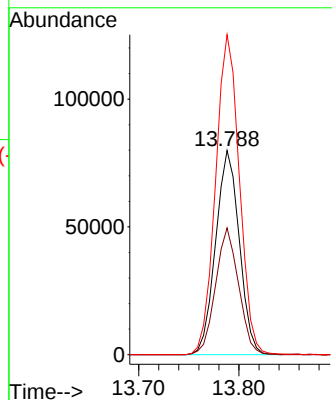
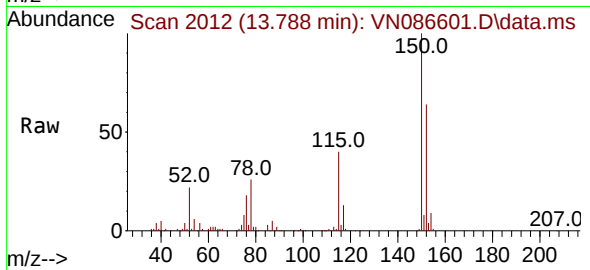




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

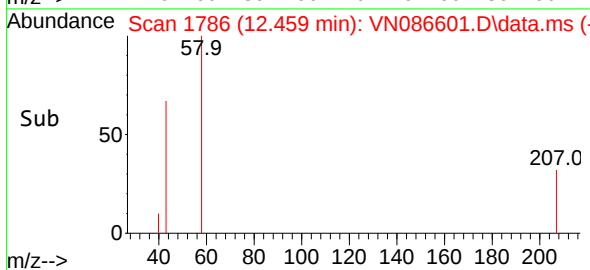
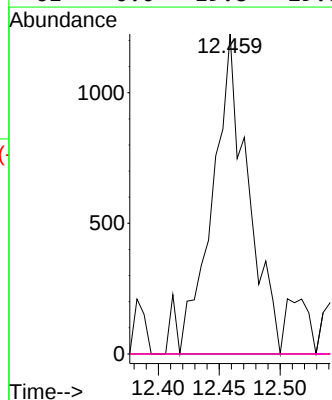
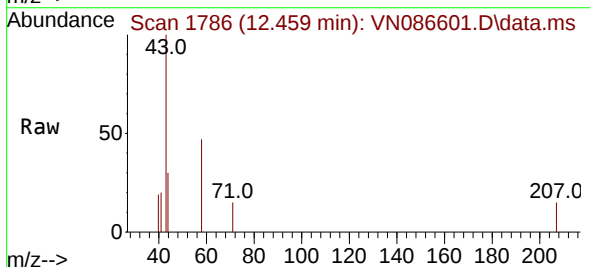
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

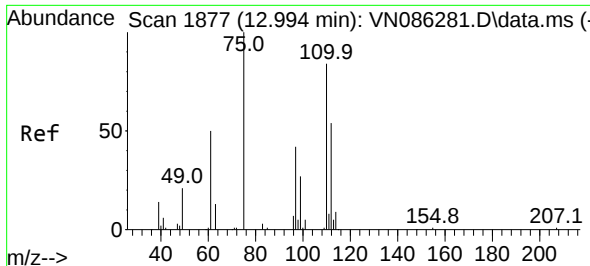
Tgt Ion:152 Resp: 130941
Ion Ratio Lower Upper
152 100
115 60.5 31.9 95.9
150 157.6 0.0 352.0



#74
N-ethyl acetate
Concen: 0.461 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 43 Resp: 2459
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 0.0 19.0 28.4#
61 0.0 19.8 29.8#

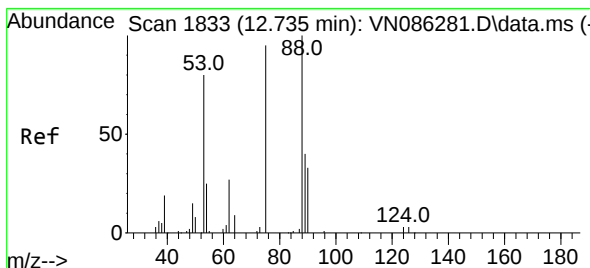
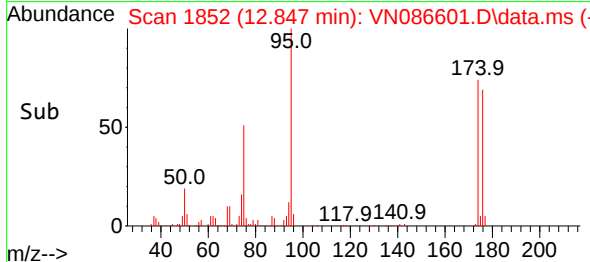
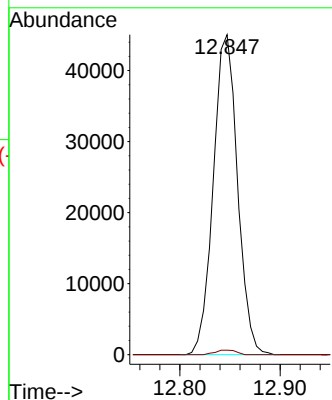
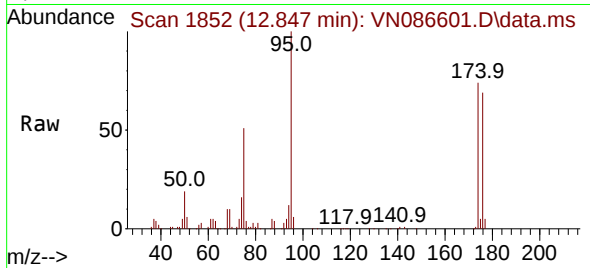




#76
1,2,3-Trichloropropane
Concen: 24.477 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#20

Tgt Ion: 75 Resp: 75634
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.784 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086601.D
Acq: 13 May 2025 14:59

Tgt Ion: 75 Resp: 75634
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.1 35.7 53.5#

