

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087832.D
 Acq On : 15 Sep 2025 13:17
 Operator : JC\MD
 Sample : Q3082-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-33

Quant Time: Sep 16 01:35:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	167642	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	386889	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	404126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	179874	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	188451	54.865	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 109.740%		
35) Dibromofluoromethane	8.147	113	145657	52.145	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.280%		
50) Toluene-d8	10.547	98	531082	50.797	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 101.600%		
62) 4-Bromofluorobenzene	12.829	95	177987	47.870	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 95.740%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.753	142	53	6.837	ug/l #	38
11) Tert butyl alcohol	5.506	59	489	0.820	ug/l #	71
13) Acrolein	4.183	56	336	0.458	ug/l #	1
16) Acetone	4.424	43	118820	63.547	ug/l	90
17) Carbon Disulfide	4.700	76	3994	0.600	ug/l #	74
18) Methyl Acetate	5.006	43	10323	2.637	ug/l #	52
20) Methylene Chloride	5.265	84	12266	3.378	ug/l #	76
25) 2-Butanone	7.477	43	15042	6.115	ug/l #	87
29) Tetrahydrofuran	7.830	42	1076	0.680	ug/l #	63
31) Cyclohexane	8.194	56	4506	1.043	ug/l #	69
36) 1,1-Dichloropropene	8.206	75	15335	3.579	ug/l #	55
37) Ethyl Acetate	7.553	43	10125	1.729	ug/l #	93
38) Carbon Tetrachloride	8.212	117	19553	4.621	ug/l #	19
43) Isopropyl Acetate	8.671	43	22015	2.408	ug/l #	91
48) Methyl methacrylate	9.724	41	120193	27.794	ug/l #	47
49) 1,4-Dioxane	9.724	88	76	1.356	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	15707	2.848	ug/l #	81
54) cis-1,3-Dichloropropene	10.341	75	55616	10.241	ug/l #	66
57) 1,3-Dichloropropane	11.188	76	4171	0.748	ug/l #	42
59) 2-Hexanone	11.188	43	52292	15.000	ug/l #	54
76) 1,2,3-Trichloropropane	12.829	75	100839	23.906	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	100839	63.289	ug/l #	1

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

Quant Time: Sep 16 01:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

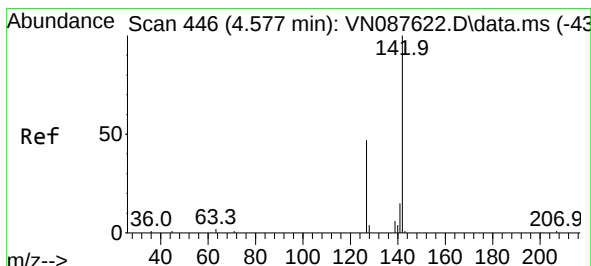
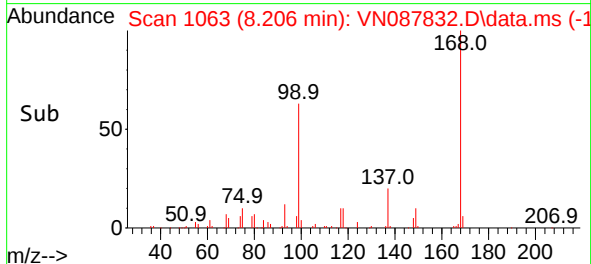
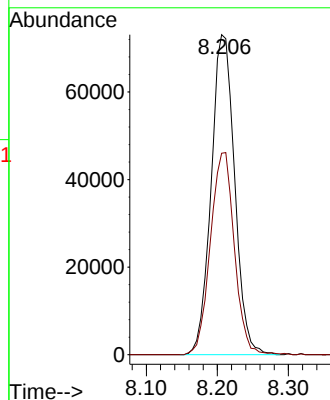
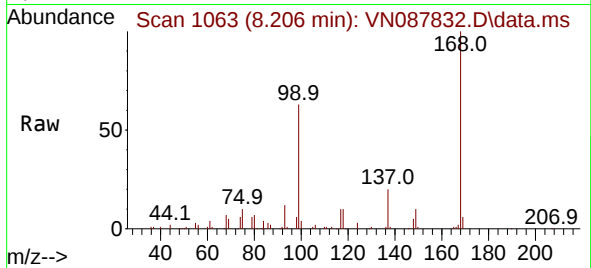




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

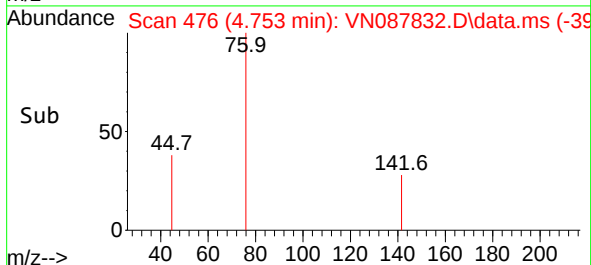
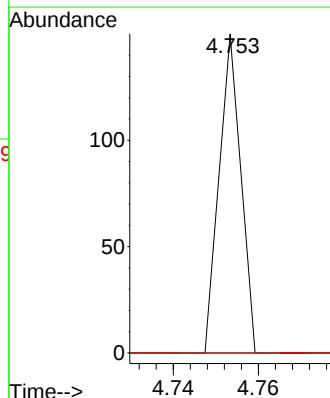
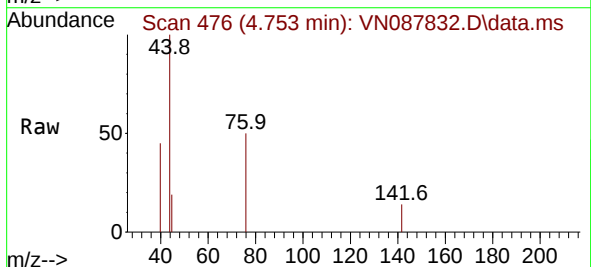
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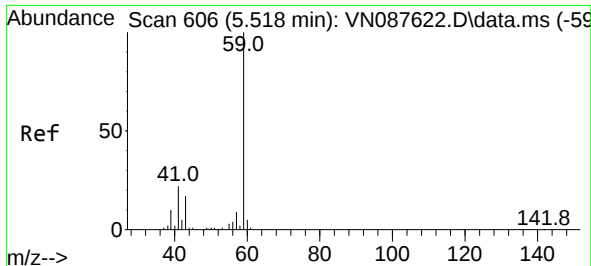
Tgt Ion:168 Resp: 167642
Ion Ratio Lower Upper
168 100
99 63.0 57.2 85.8



#10
Methyl Iodide
Concen: 6.837 ug/l
RT: 4.753 min Scan# 476
Delta R.T. 0.176 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion:142 Resp: 53
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

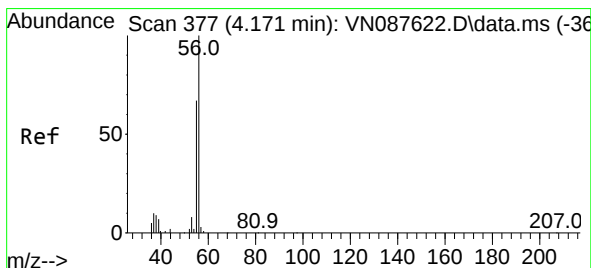
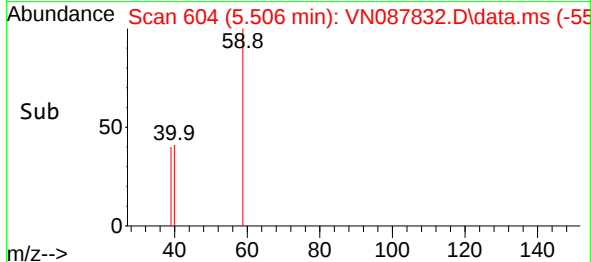
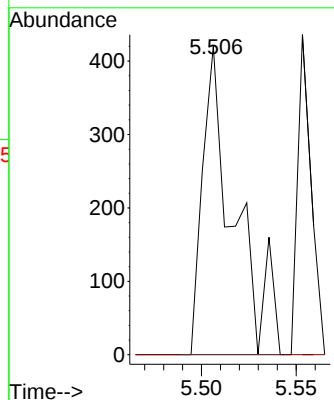
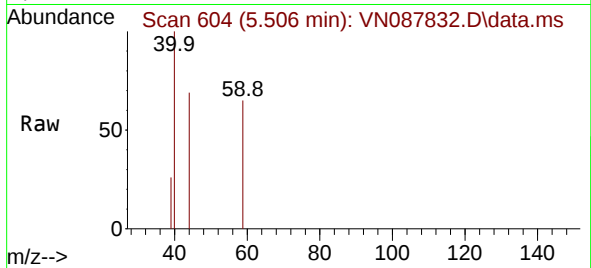




#11
Tert butyl alcohol
Concen: 0.820 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

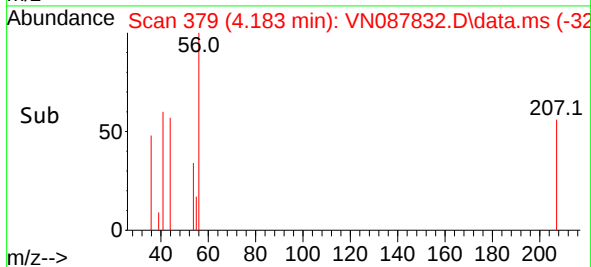
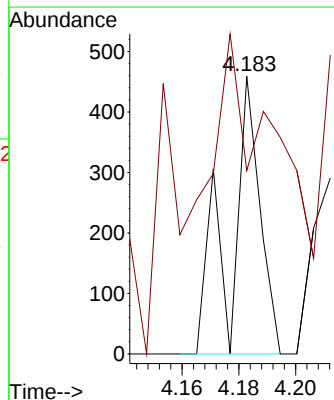
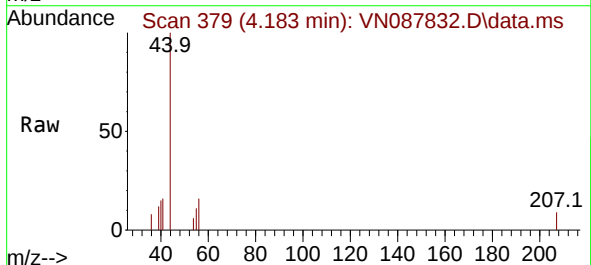
Instrument :
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ClientSampleId :
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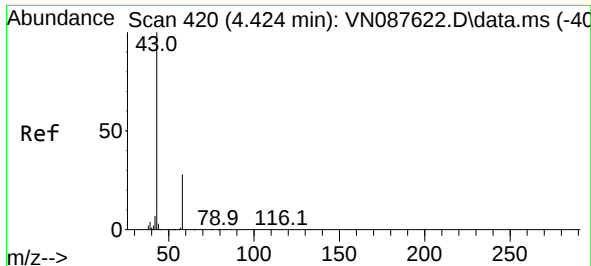
Tgt Ion: 59 Resp: 489
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.458 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 56 Resp: 336
Ion Ratio Lower Upper
56 100
55 247.0 57.3 85.9#

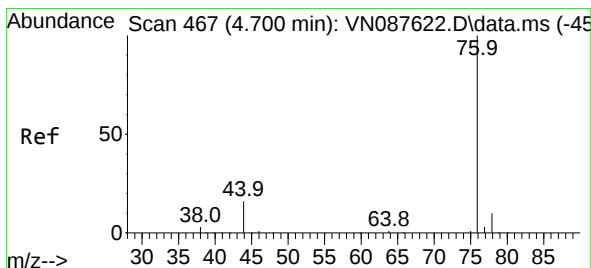
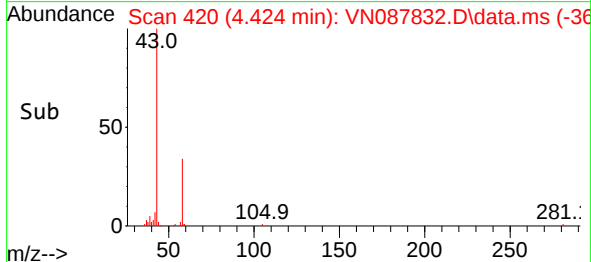
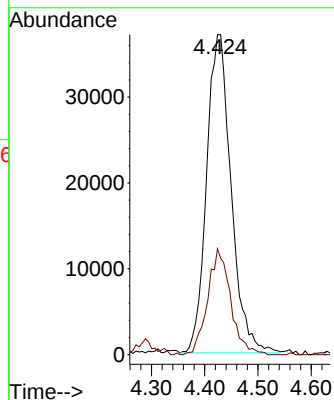
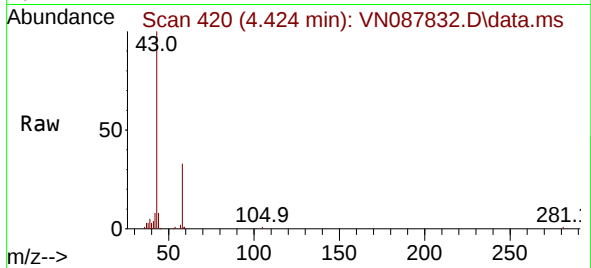




#16
Acetone
Concen: 63.547 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

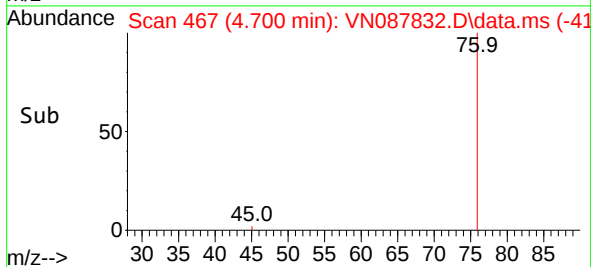
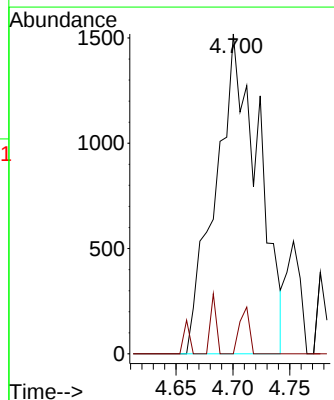
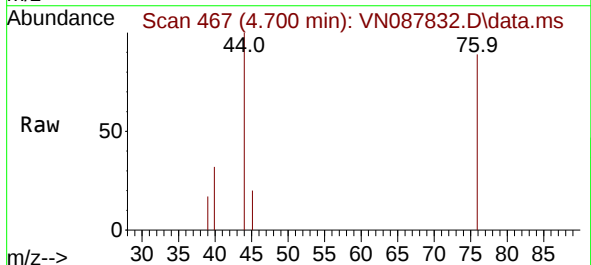
Instrument :
MSVOA_N
ClientSampleId :
WC-33

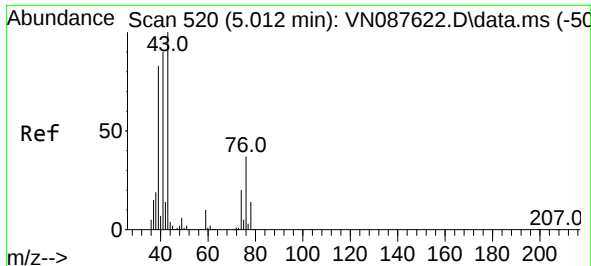
Tgt Ion: 43 Resp: 118820
Ion Ratio Lower Upper
43 100
58 33.3 22.6 33.8



#17
Carbon Disulfide
Concen: 0.600 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 76 Resp: 3994
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

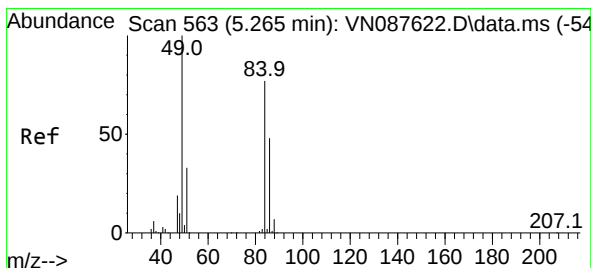
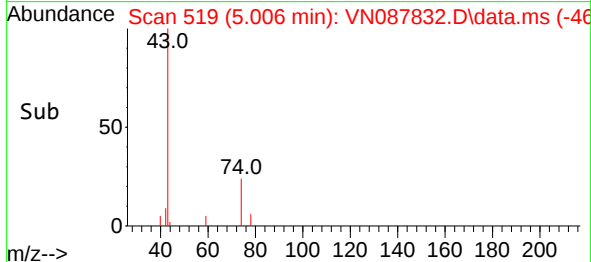
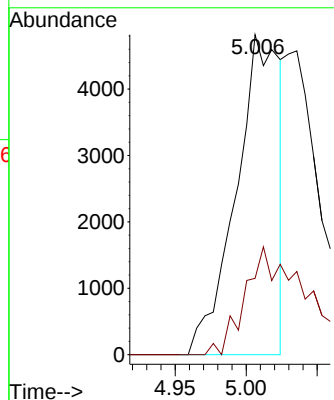
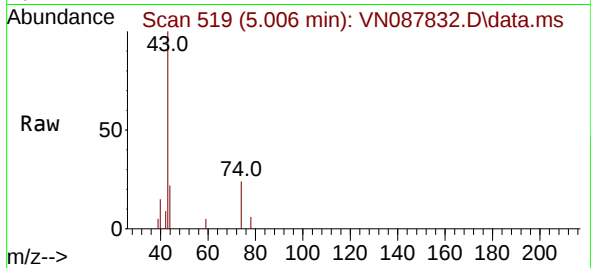




#18
Methyl Acetate
Concen: 2.637 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

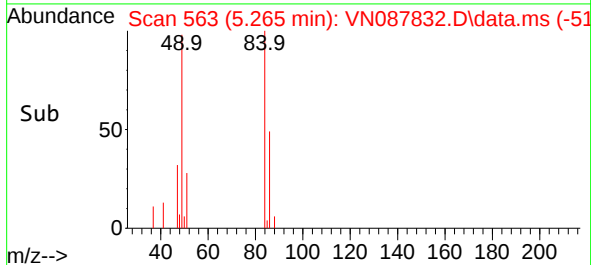
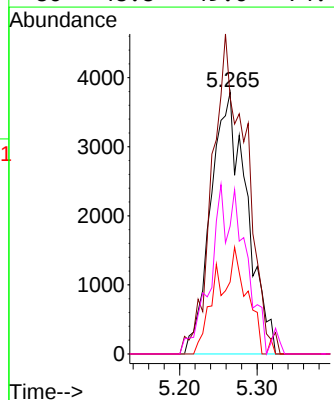
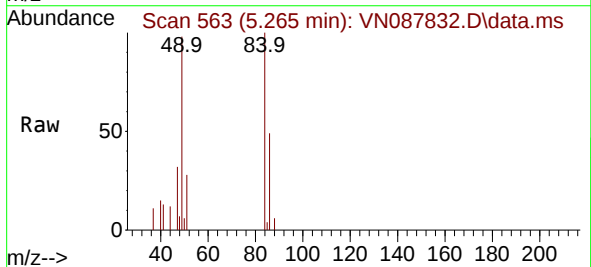
Instrument :
MSVOA_N
ClientSampleId :
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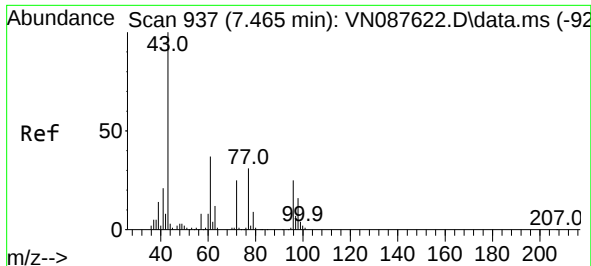
Tgt Ion: 43 Resp: 10323
Ion Ratio Lower Upper
43 100
74 45.1 17.6 26.4#



#20
Methylene Chloride
Concen: 3.378 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 84 Resp: 12266
Ion Ratio Lower Upper
84 100
49 98.0 103.4 155.2#
51 27.5 33.8 50.8#
86 48.8 49.6 74.4#

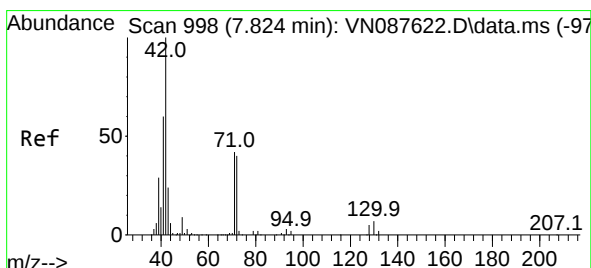
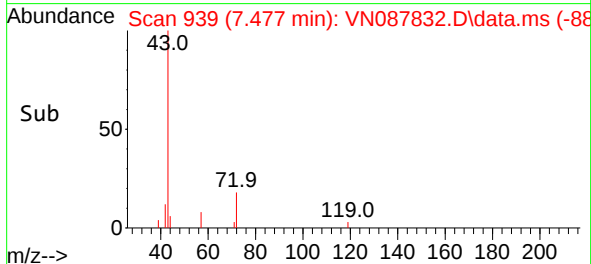
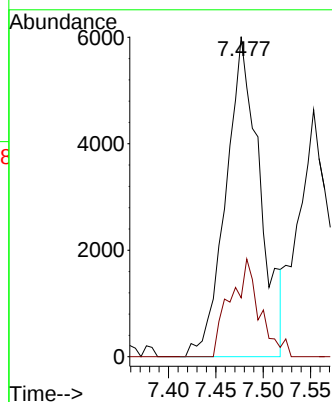
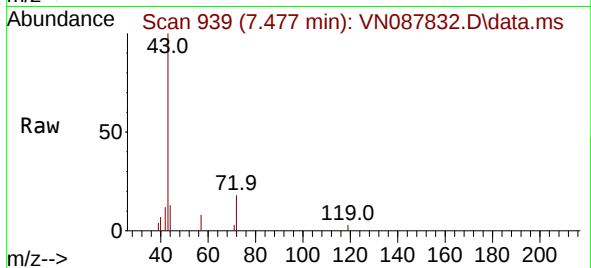




#25
2-Butanone
Concen: 6.115 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

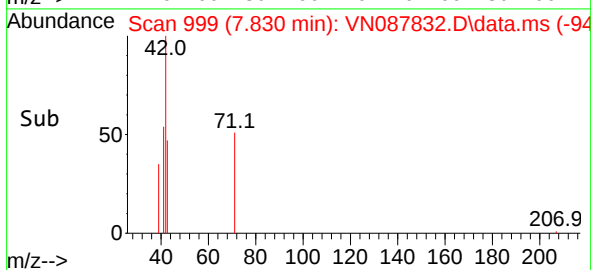
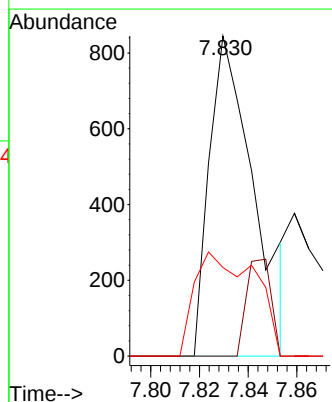
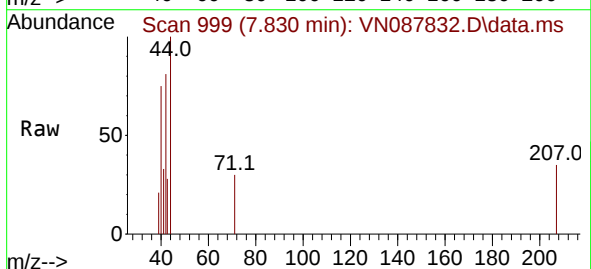
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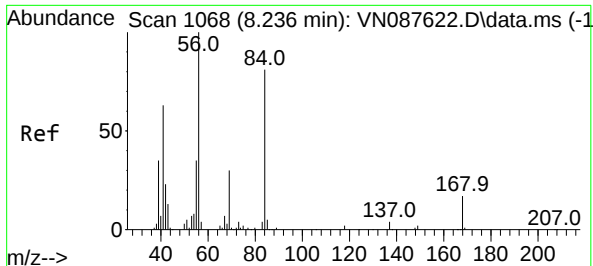
Tgt Ion: 43 Resp: 15042
Ion Ratio Lower Upper
43 100
72 18.4 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.680 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 42 Resp: 1076
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 43.8 31.9 47.9

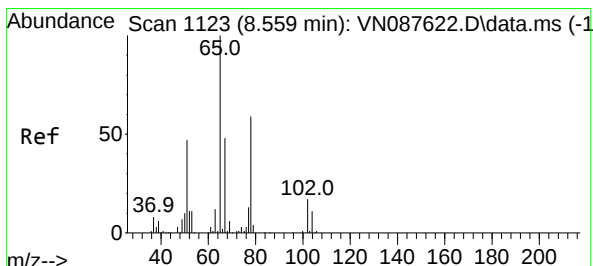
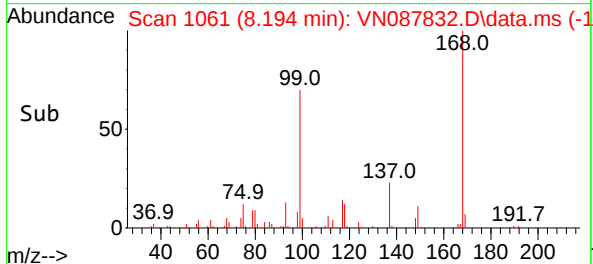
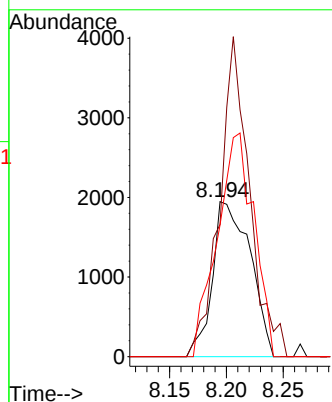
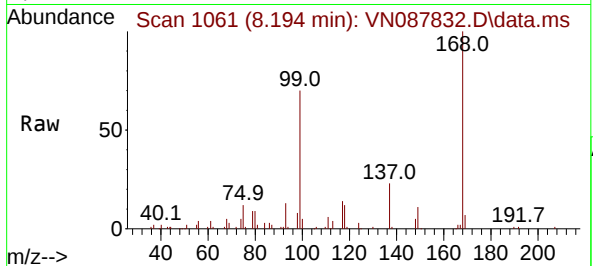




#31
Cyclohexane
Concen: 1.043 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.041 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

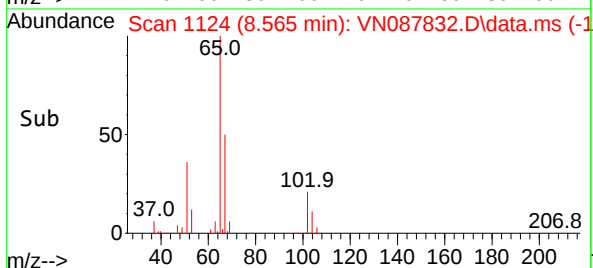
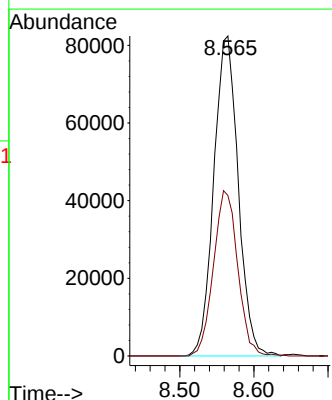
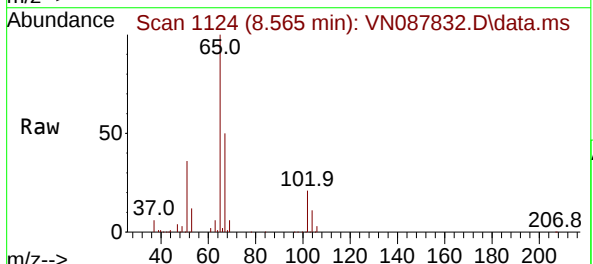
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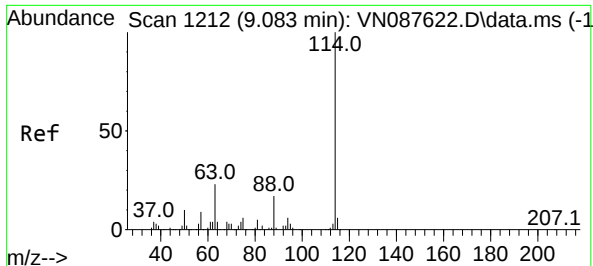
Tgt Ion: 56 Resp: 4506
Ion Ratio Lower Upper
56 100
69 85.3 23.7 35.5#
84 84.9 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 54.865 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 65 Resp: 188451
Ion Ratio Lower Upper
65 100
67 51.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087832.D

Acq: 15 Sep 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

WC-33

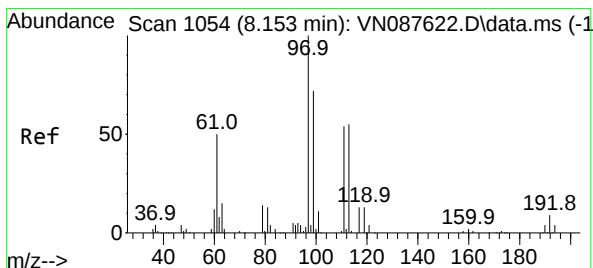
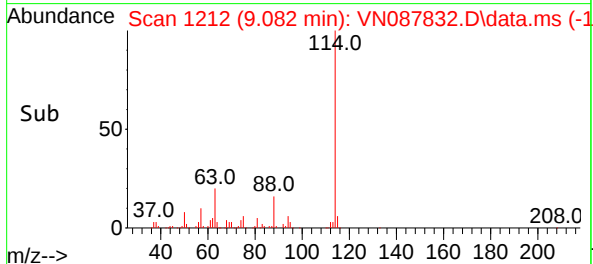
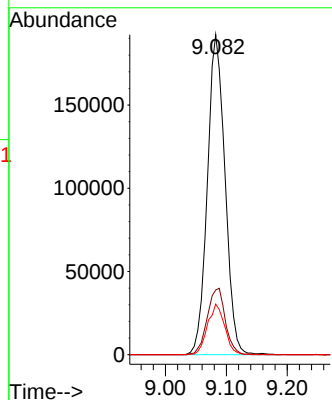
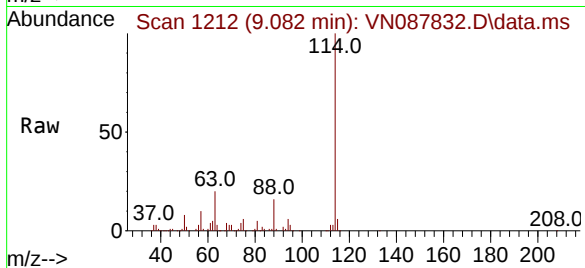
Tgt Ion:114 Resp: 386889

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.2

88 15.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.145 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087832.D

Acq: 15 Sep 2025 13:17

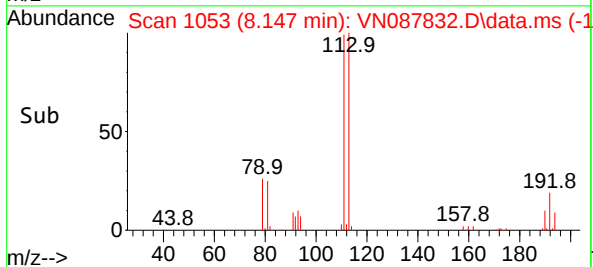
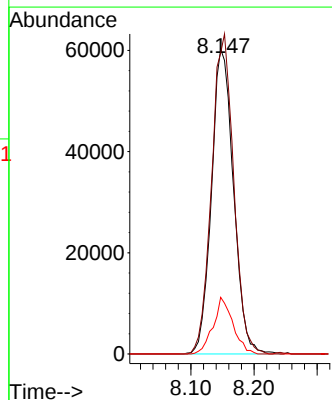
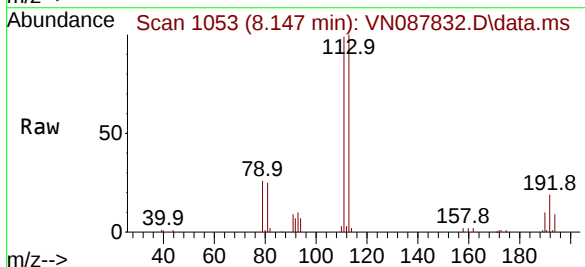
Tgt Ion:113 Resp: 145657

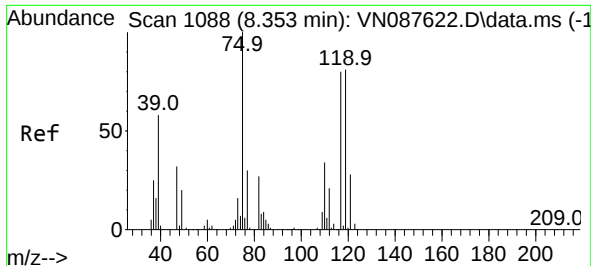
Ion Ratio Lower Upper

113 100

111 105.1 82.8 124.2

192 16.7 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.579 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087832.D

Acq: 15 Sep 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

WC-33

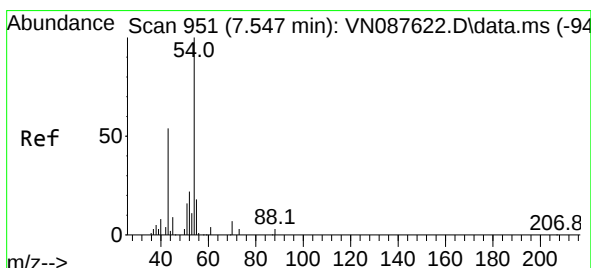
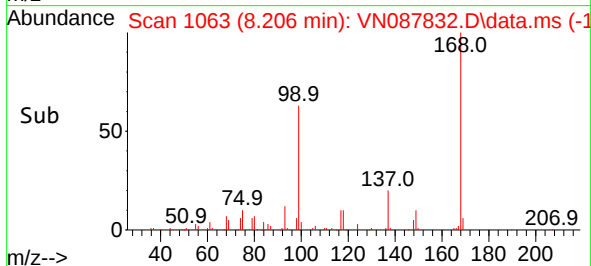
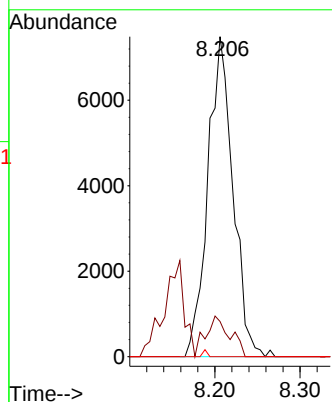
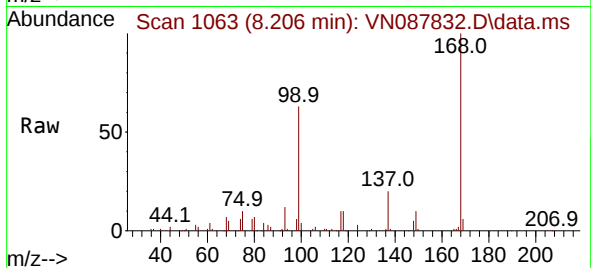
Tgt Ion: 75 Resp: 15335

Ion Ratio Lower Upper

75 100

110 12.2 15.9 47.6#

77 0.4 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.729 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087832.D

Acq: 15 Sep 2025 13:17

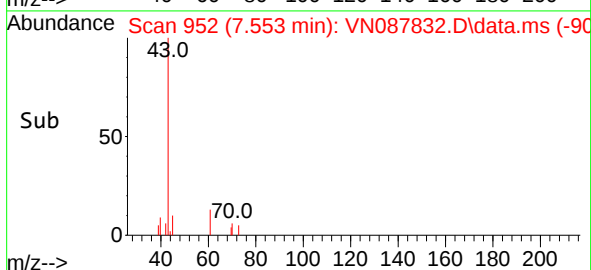
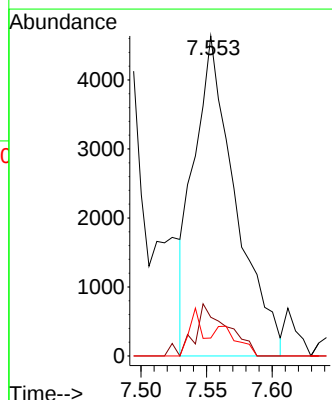
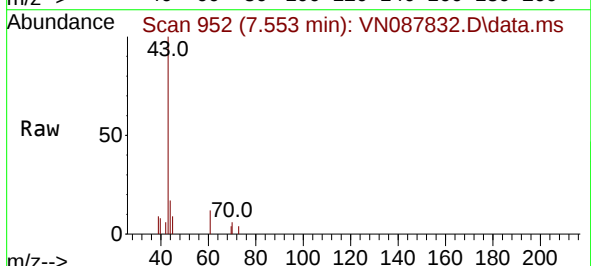
Tgt Ion: 43 Resp: 10125

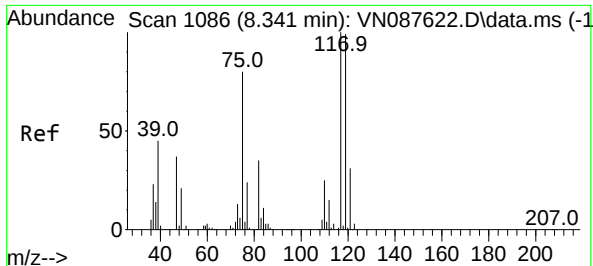
Ion Ratio Lower Upper

43 100

61 13.1 9.3 13.9

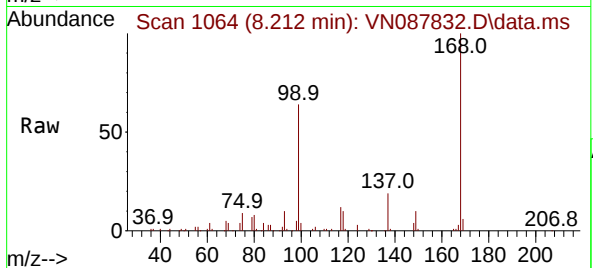
70 5.2 7.0 10.6#



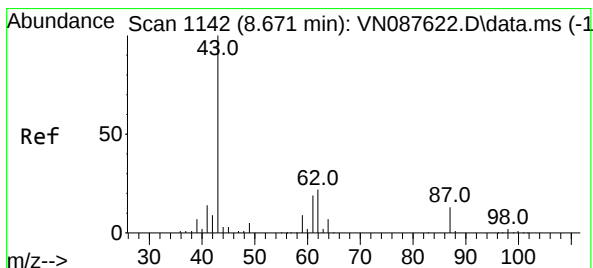
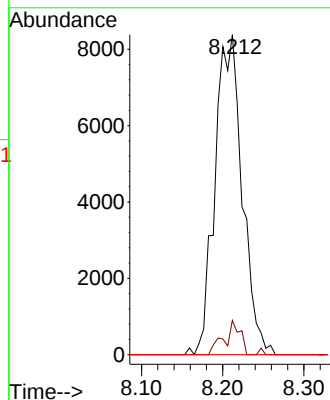
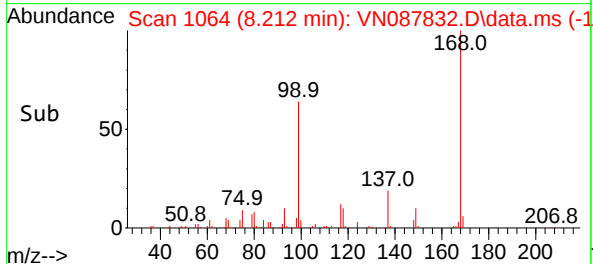


#38
Carbon Tetrachloride
Concen: 4.621 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.130 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
WC-33

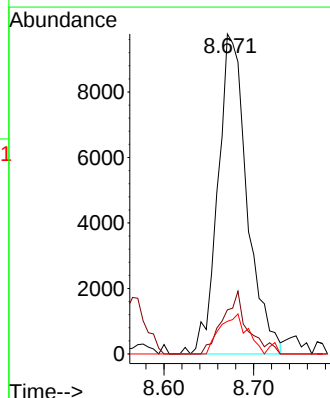
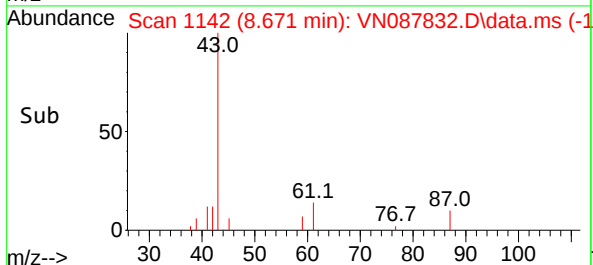
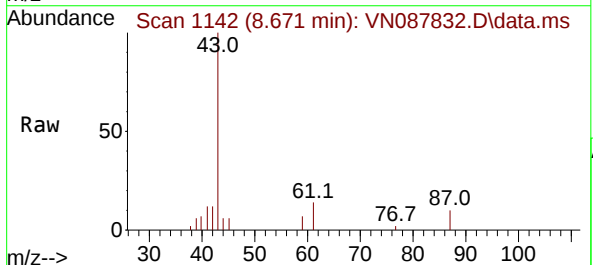


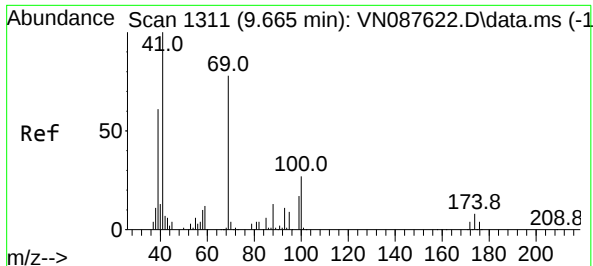
Tgt Ion:117 Resp: 19553
Ion Ratio Lower Upper
117 100
119 10.7 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.408 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 43 Resp: 22015
Ion Ratio Lower Upper
43 100
61 16.8 18.8 28.2#
87 11.7 9.6 14.4

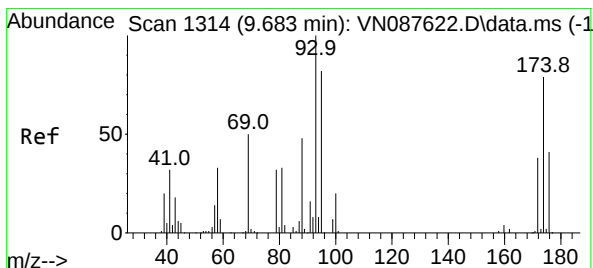
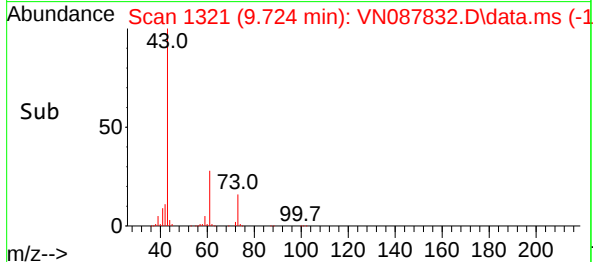
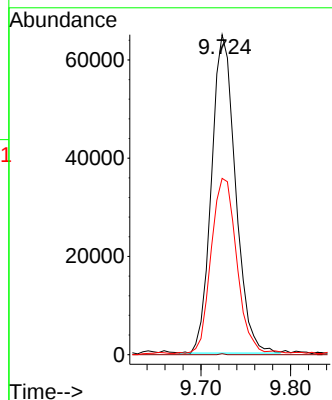
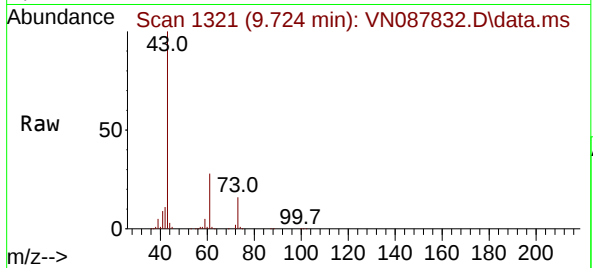




#48
Methyl methacrylate
Concen: 27.794 ug/l
RT: 9.724 min Scan# 1311
Delta R.T. 0.059 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

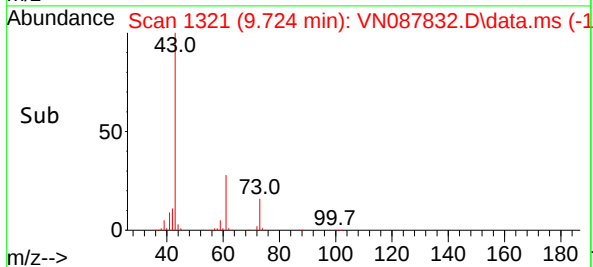
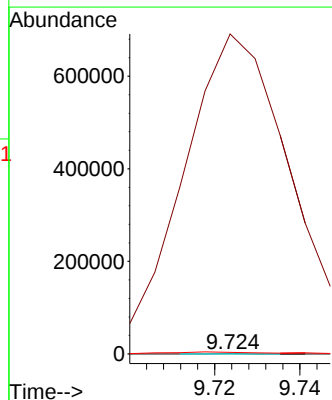
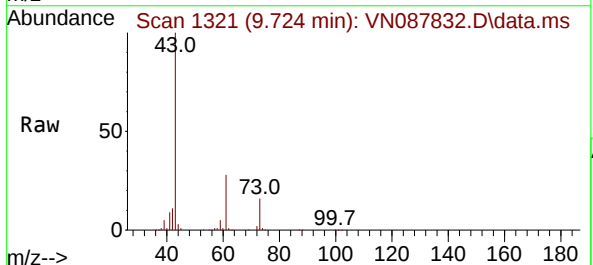
Instrument :
MSVOA_N
ClientSampleId :
WC-33

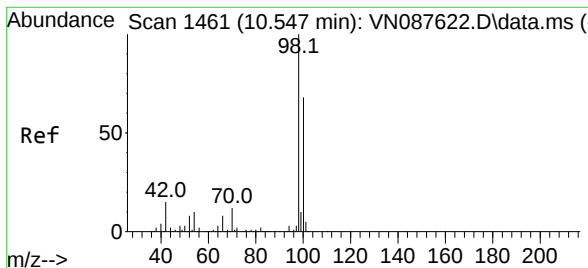
Tgt Ion: 41 Resp: 120193
Ion Ratio Lower Upper
41 100
69 0.1 62.7 94.1#
39 58.9 52.9 79.3



#49
1,4-Dioxane
Concen: 1.356 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.041 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 1676471.1 0.0 0.0#
58 10971.1 57.9 86.9#

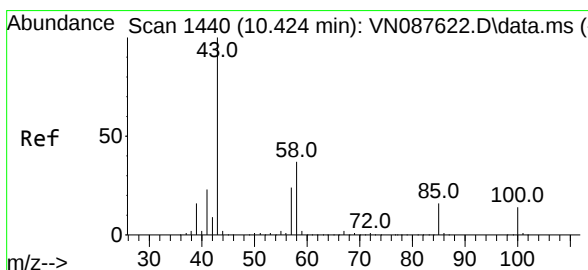
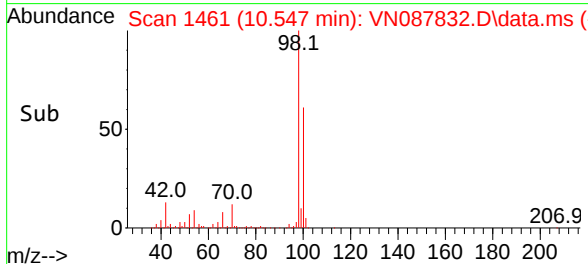
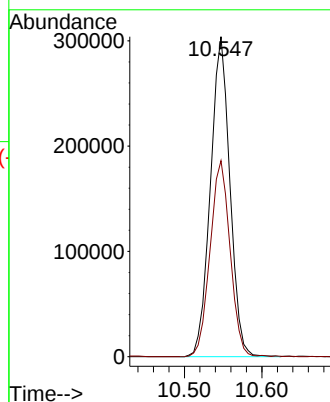
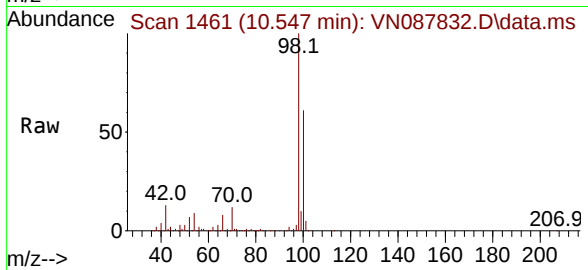




#50
Toluene-d8
Concen: 50.797 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

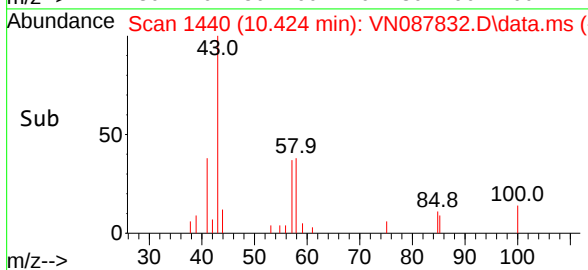
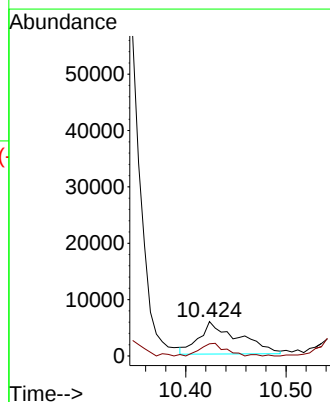
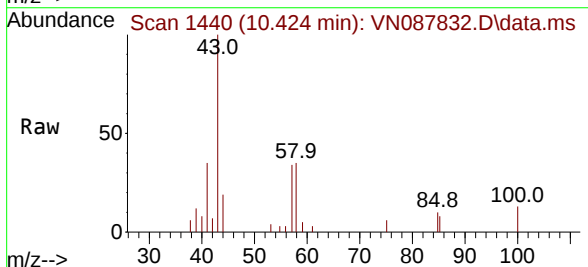
Instrument :
MSVOA_N
ClientSampleId :
WC-33

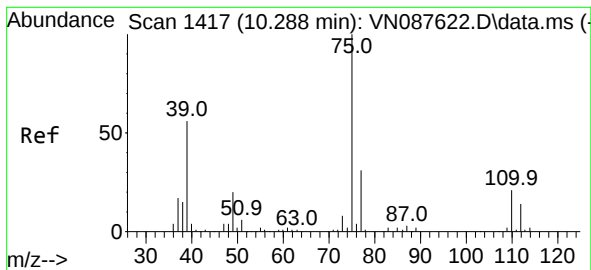
Tgt Ion: 98 Resp: 531082
Ion Ratio Lower Upper
98 100
100 63.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.848 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 43 Resp: 15707
Ion Ratio Lower Upper
43 100
58 25.4 29.6 44.4#

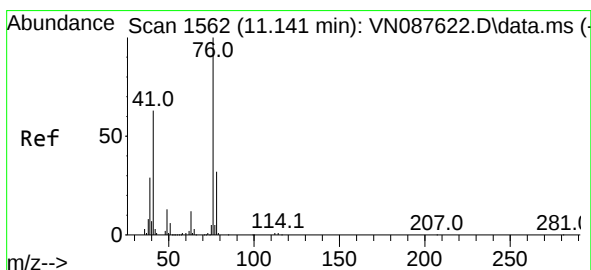
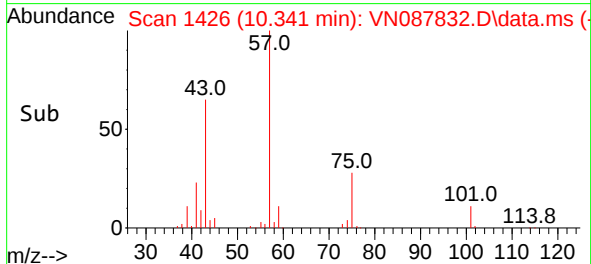
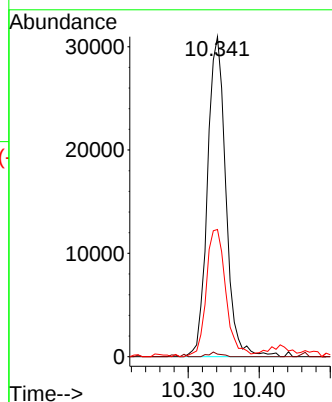
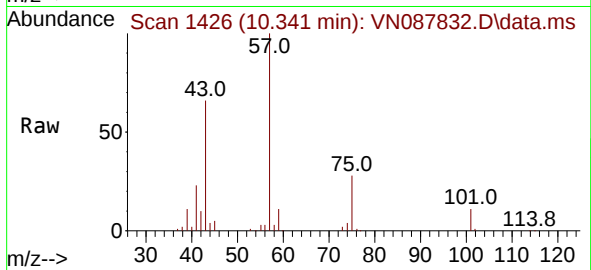




#54
 cis-1,3-Dichloropropene
 Concen: 10.241 ug/l
 RT: 10.341 min Scan# 1417
 Delta R.T. 0.053 min
 Lab File: VN087832.D
 Acq: 15 Sep 2025 13:17

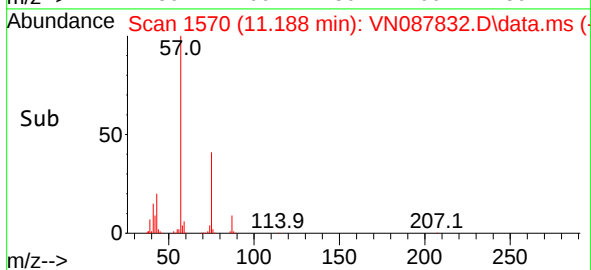
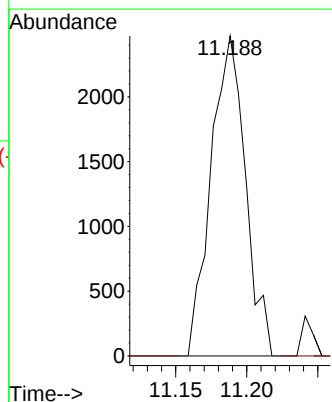
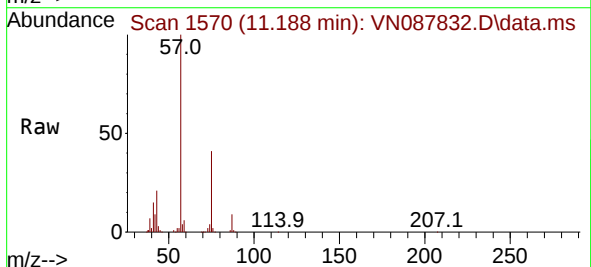
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-33

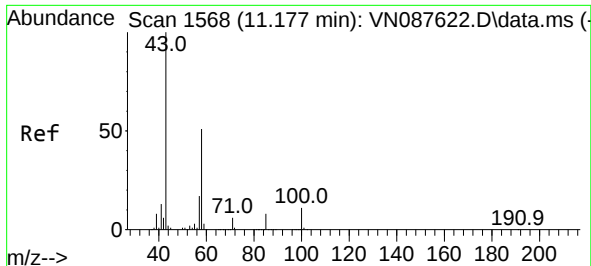
Tgt Ion: 75 Resp: 55616
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.6 37.0#
 39 39.7 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.748 ug/l
 RT: 11.188 min Scan# 1570
 Delta R.T. 0.047 min
 Lab File: VN087832.D
 Acq: 15 Sep 2025 13:17

Tgt Ion: 76 Resp: 4171
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

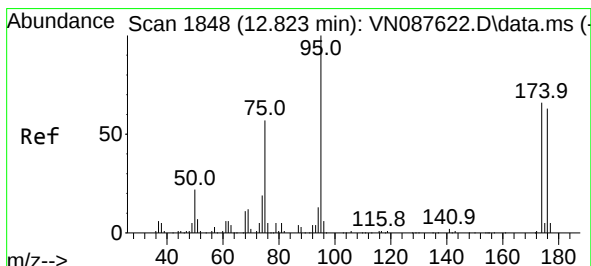
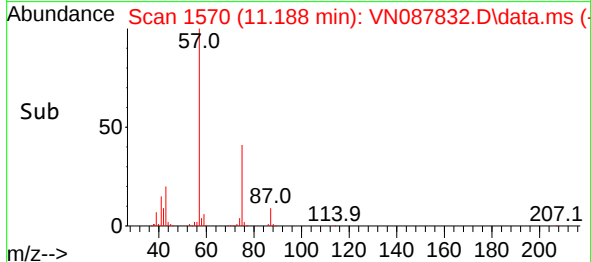
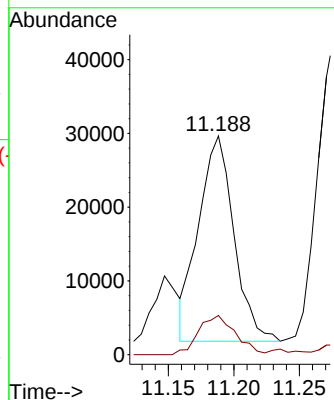
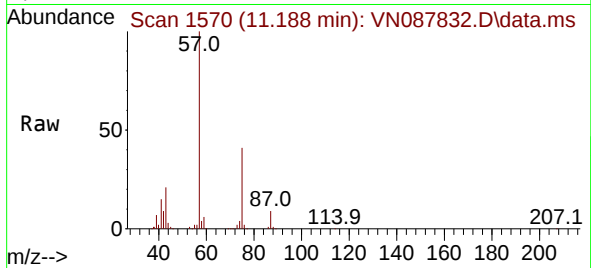




#59
2-Hexanone
Concen: 15.000 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

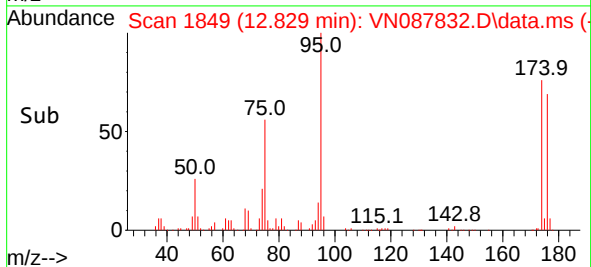
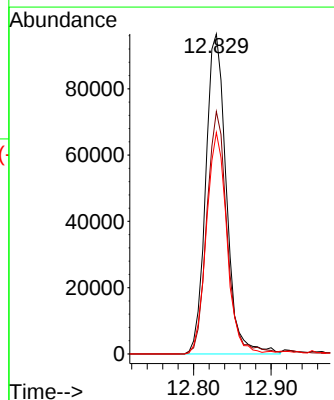
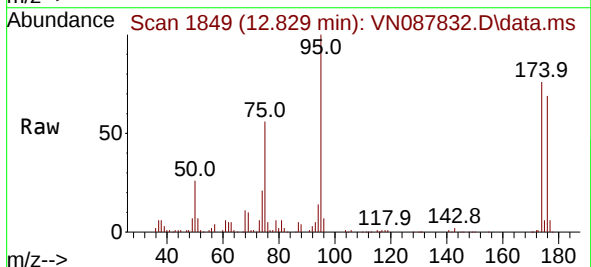
Instrument :
MSVOA_N
ClientSampleId :
WC-33

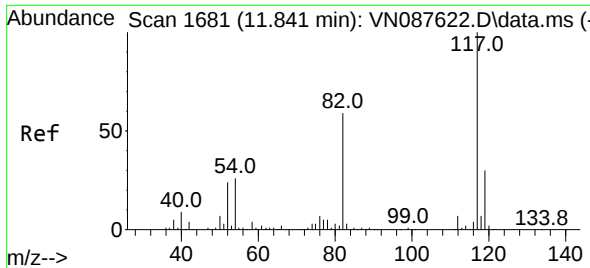
Tgt Ion: 43 Resp: 52292
Ion Ratio Lower Upper
43 100
58 19.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.870 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 95 Resp: 177987
Ion Ratio Lower Upper
95 100
174 75.0 0.0 138.4
176 68.8 0.0 132.6

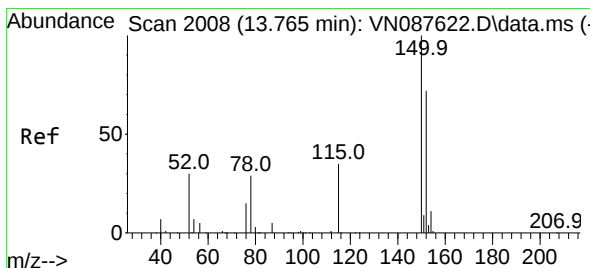
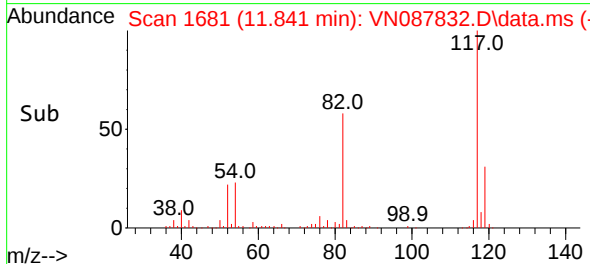
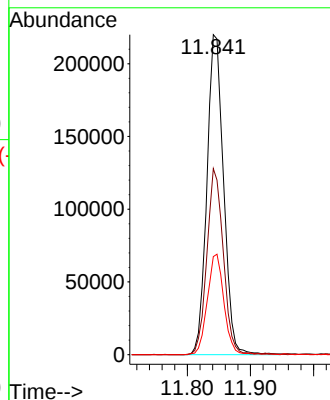
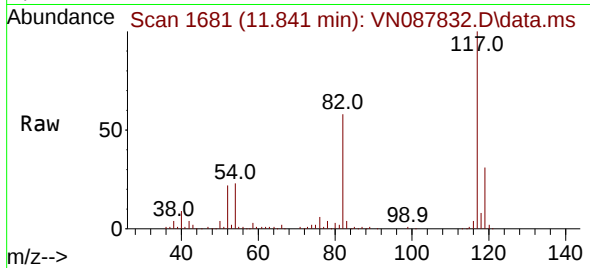




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

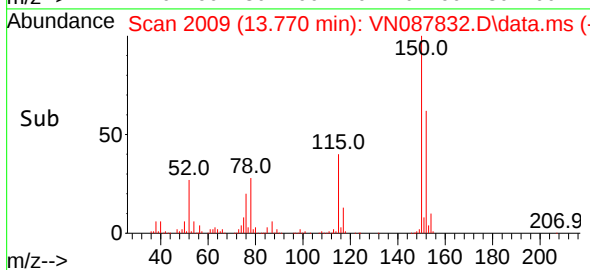
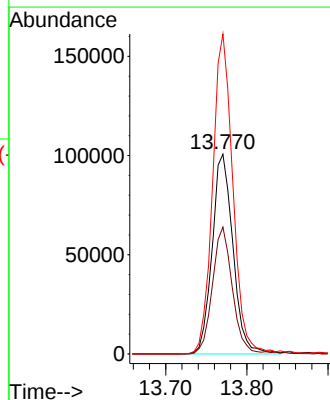
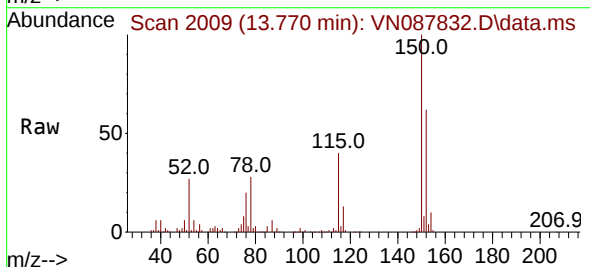
Instrument :
MSVOA_N
ClientSampleId :
WC-33

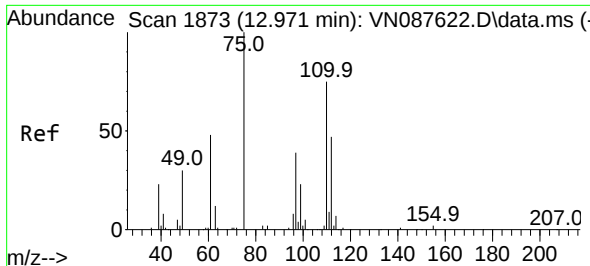
Tgt Ion:117 Resp: 404126
Ion Ratio Lower Upper
117 100
82 58.2 47.4 71.2
119 30.7 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion:152 Resp: 179874
Ion Ratio Lower Upper
152 100
115 61.3 32.3 96.8
150 156.3 0.0 351.0

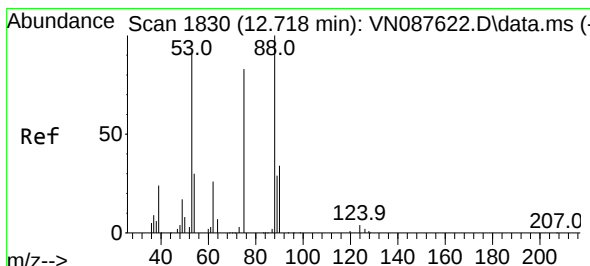
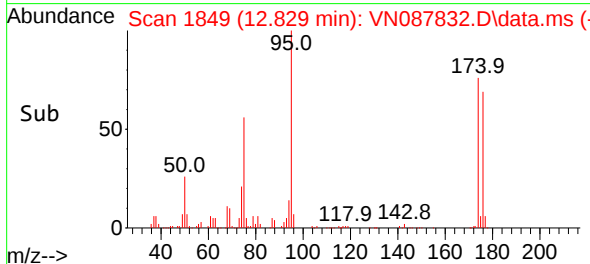
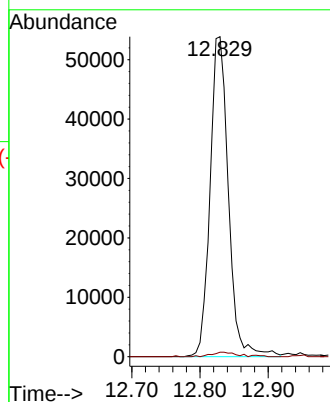
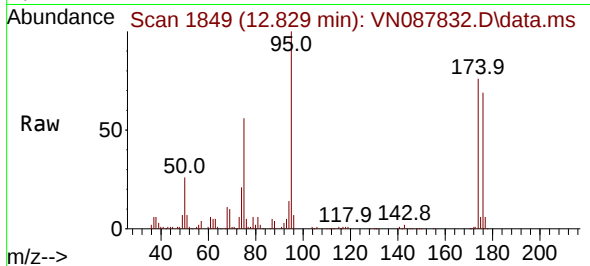




#76
1,2,3-Trichloropropane
Concen: 23.906 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
WC-33

Tgt Ion: 75 Resp: 100839
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.289 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087832.D
Acq: 15 Sep 2025 13:17

Tgt Ion: 75 Resp: 100839
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.3 35.6 53.4#

