

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082625\
 Data File : VN087674.D
 Acq On : 26 Aug 2025 16:45
 Operator : JC\MD
 Sample : Q2964-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3

Quant Time: Aug 27 01:51:04 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)

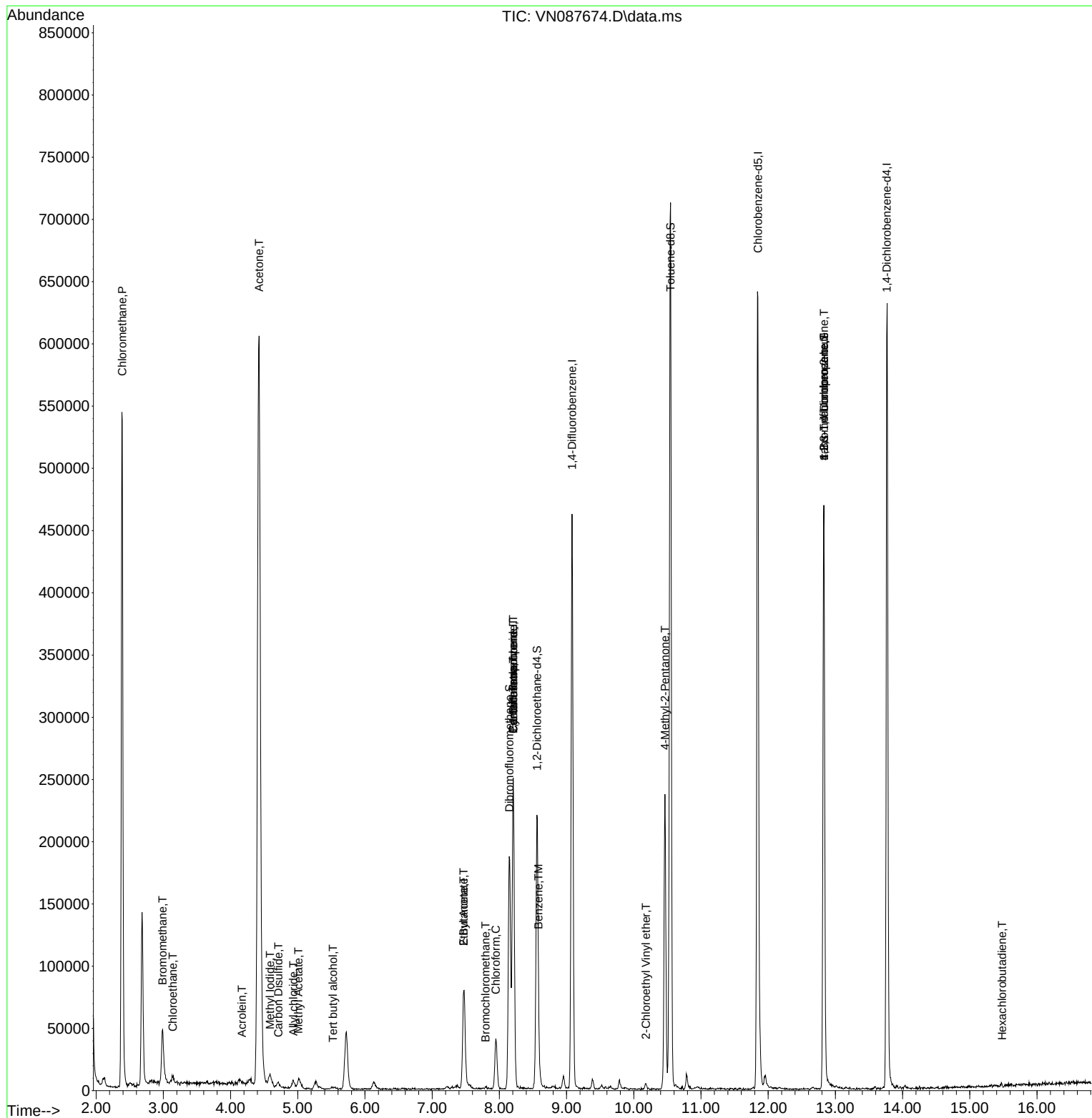
Internal Standards						
1) Pentafluorobenzene	8.206	168	162555	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	371496	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	353184	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.764	152	162592	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	179637	53.936	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.880%	
35) Dibromofluoromethane	8.147	113	135470	50.507	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.020%	
50) Toluene-d8	10.547	98	463062	46.126	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.260%	
62) 4-Bromofluorobenzene	12.829	95	167156	46.820	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 93.640%	
Target Compounds						
						Qvalue
3) Chloromethane	2.389	50	552275	232.770	ug/l	98
5) Bromomethane	2.989	94	34355	24.203	ug/l	99
6) Chloroethane	3.142	64	5703	2.950	ug/l	94
10) Methyl Iodide	4.589	142	18382	16.127	ug/l	95
11) Tert butyl alcohol	5.524	59	1401	2.423	ug/l #	81
13) Acrolein	4.171	56	361	0.508	ug/l #	1
14) Allyl chloride	4.936	41	10841	2.553	ug/l #	36
16) Acetone	4.424	43	1198494	661.036	ug/l	96
17) Carbon Disulfide	4.712	76	7675	1.190	ug/l	97
18) Methyl Acetate	5.012	43	16088	4.238	ug/l	100
20) Methylene Chloride	5.259	84	2188	Below Cal	#	74
25) 2-Butanone	7.471	43	135182	56.673	ug/l	100
28) Bromochloromethane	7.794	49	755	0.311	ug/l #	57
30) Chloroform	7.947	83	37839	7.377	ug/l	95
31) Cyclohexane	8.206	56	5934	1.416	ug/l #	32
36) 1,1-Dichloropropene	8.206	75	16457	3.999	ug/l #	51
37) Ethyl Acetate	7.471	43	135182	24.042	ug/l #	72
38) Carbon Tetrachloride	8.206	117	19053	4.690	ug/l #	13
40) Benzene	8.582	78	2711	0.215	ug/l	92
51) 4-Methyl-2-Pentanone	10.465	43	267407	50.487	ug/l #	38
58) 2-Chloroethyl Vinyl ether	10.182	63	1005	0.384	ug/l #	70
76) 1,2,3-Trichloropropane	12.829	75	98718	25.891	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	98718	68.543	ug/l #	1
94) Hexachlorobutadiene	15.482	225	318	0.257	ug/l #	58

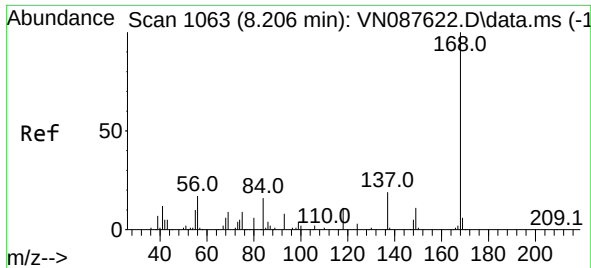
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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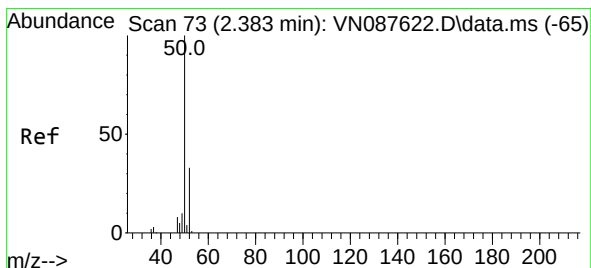
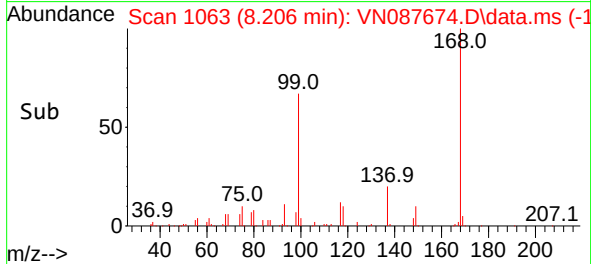
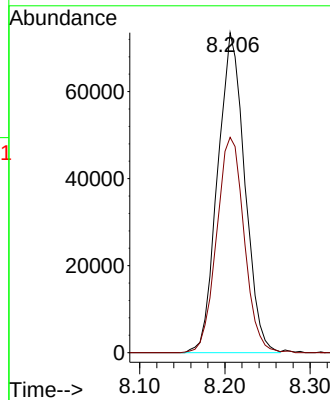
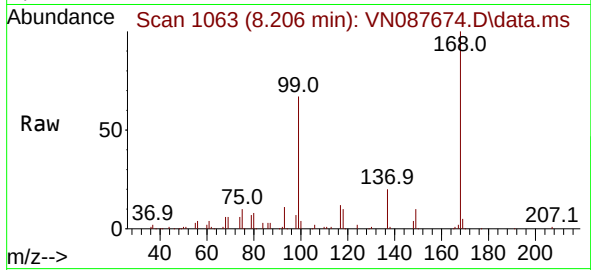




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

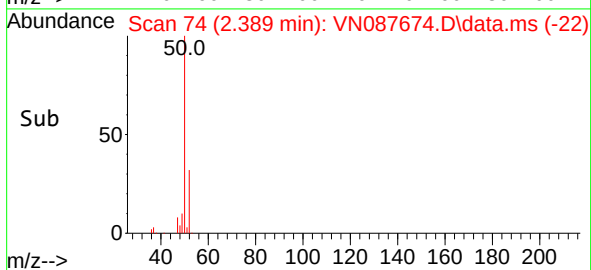
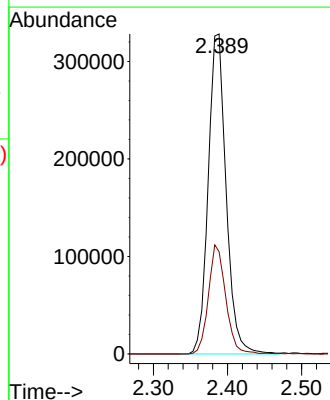
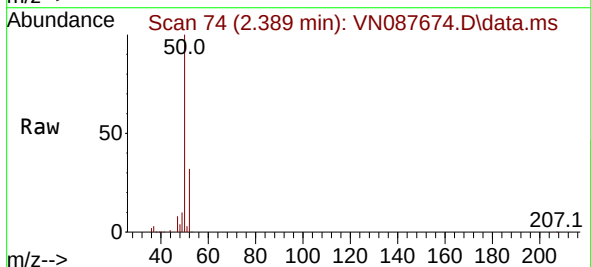
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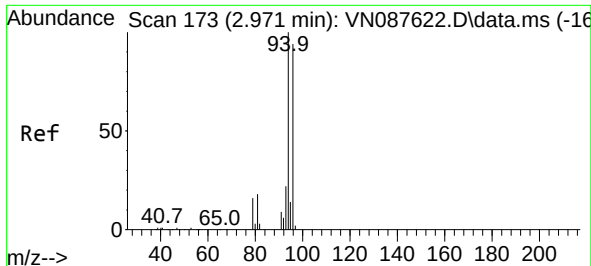
Tgt Ion:168 Resp: 162555
Ion Ratio Lower Upper
168 100
99 67.3 57.2 85.8



#3
Chloromethane
Concen: 232.770 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 50 Resp: 552275
Ion Ratio Lower Upper
50 100
52 31.9 26.2 39.4

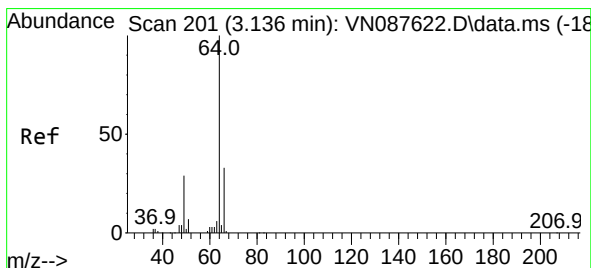
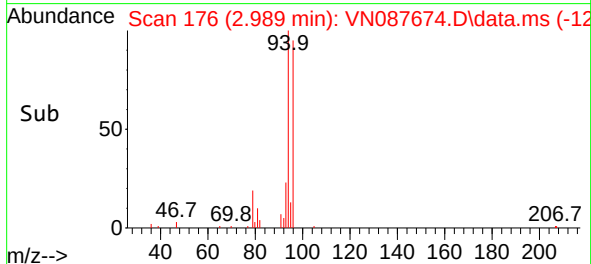
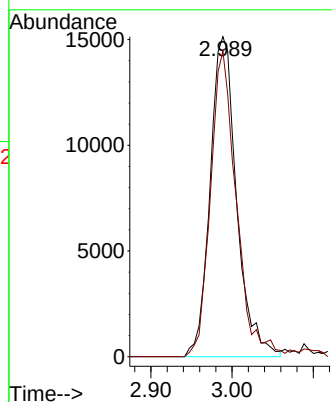
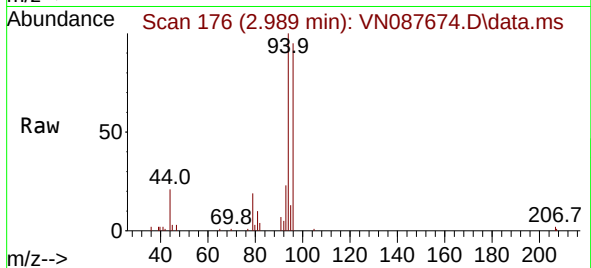




#5
Bromomethane
Concen: 24.203 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

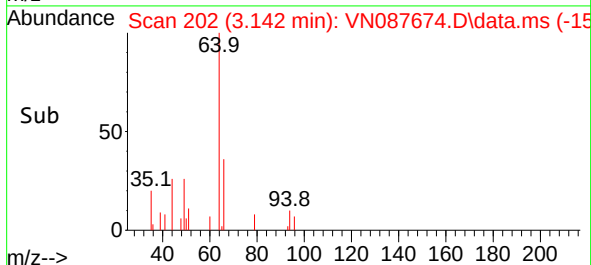
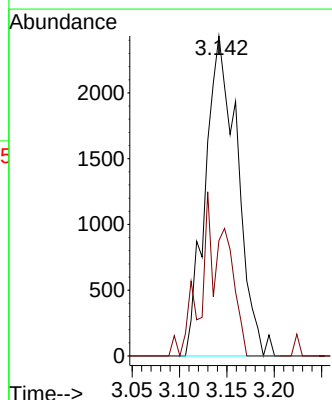
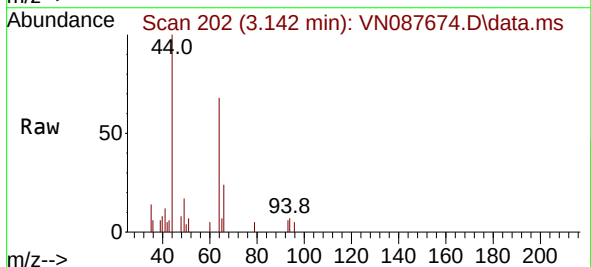
Instrument :
MSVOA_N
ClientSampleId :
MW3

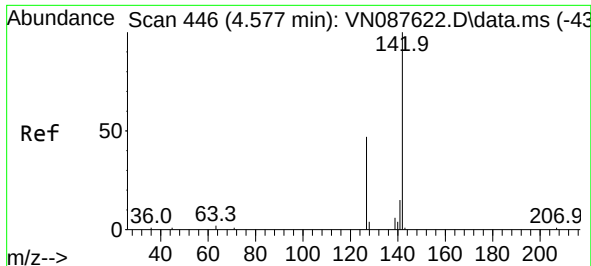
Tgt Ion: 94 Resp: 34355
Ion Ratio Lower Upper
94 100
96 95.5 75.4 113.2



#6
Chloroethane
Concen: 2.950 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 64 Resp: 5703
Ion Ratio Lower Upper
64 100
66 36.0 26.2 39.2

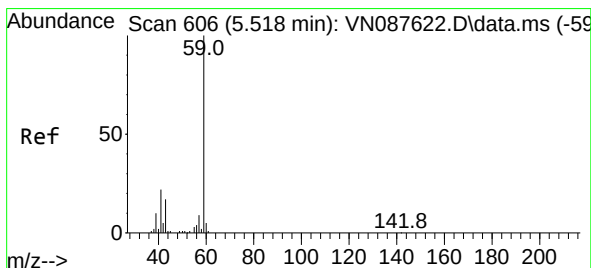
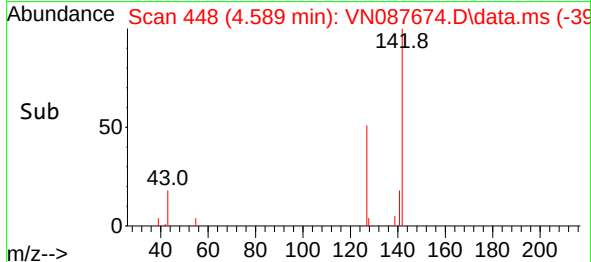
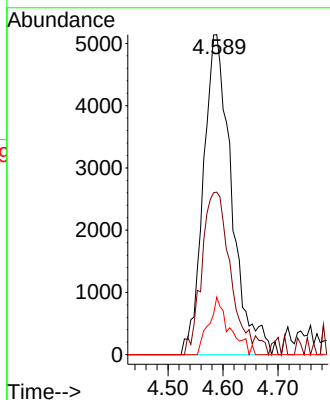
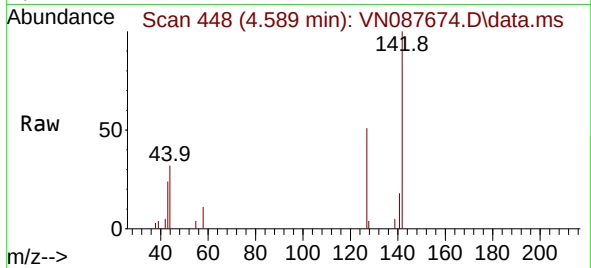




#10
Methyl Iodide
Concen: 16.127 ug/l
RT: 4.589 min Scan# 446
Delta R.T. 0.012 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

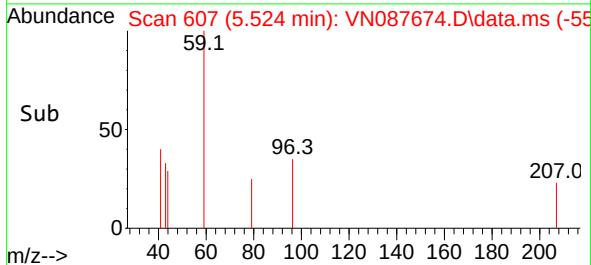
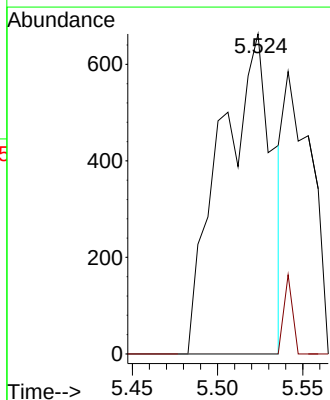
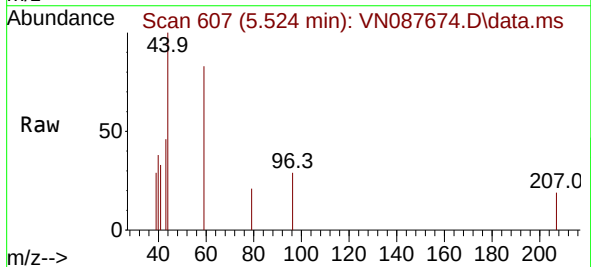
Instrument :
MSVOA_N
ClientSampleId :
MW3

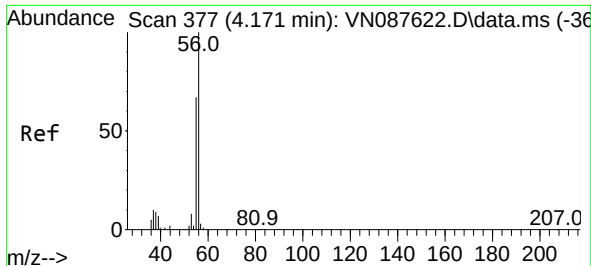
Tgt Ion:142 Resp: 18382
Ion Ratio Lower Upper
142 100
127 50.8 38.0 57.0
141 18.0 12.0 18.0



#11
Tert butyl alcohol
Concen: 2.423 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 59 Resp: 1401
Ion Ratio Lower Upper
59 100
57 4.1 9.0 13.4#

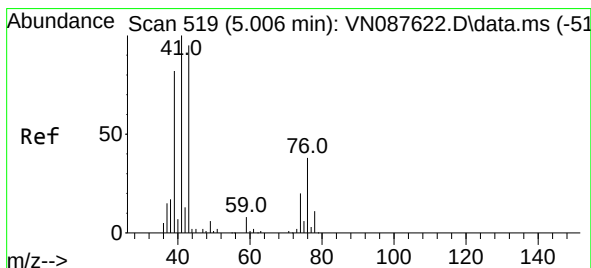
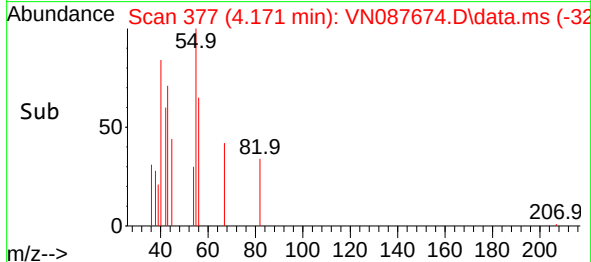
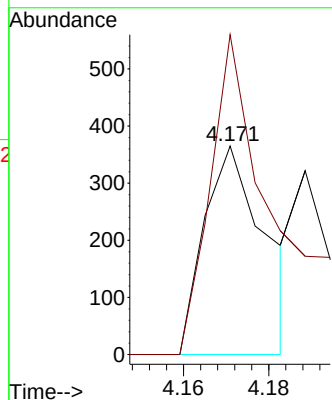
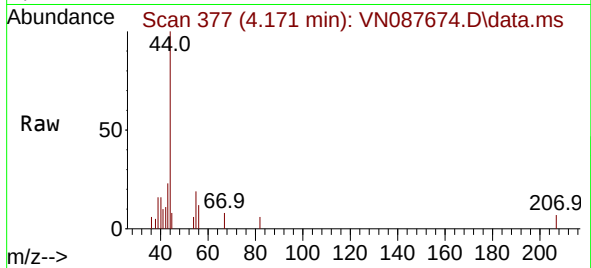




#13
Acrolein
Concen: 0.508 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

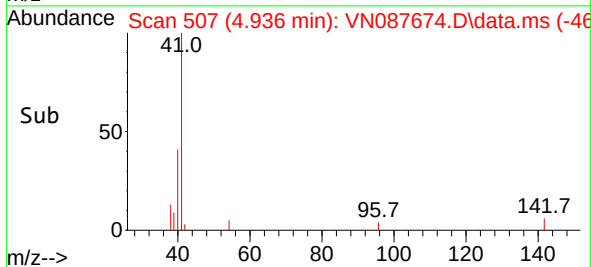
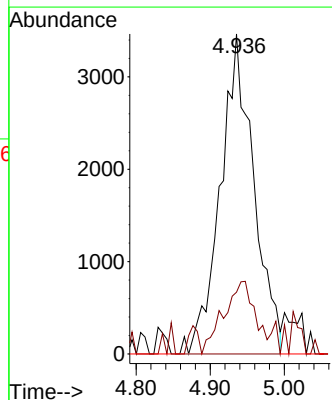
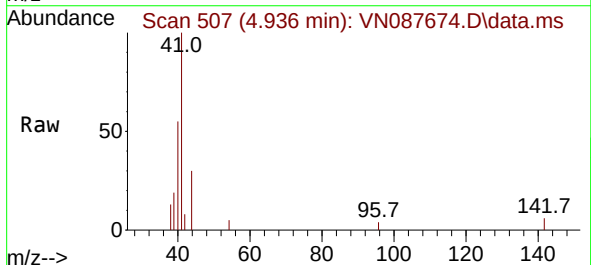
Instrument :
MSVOA_N
ClientSampleId :
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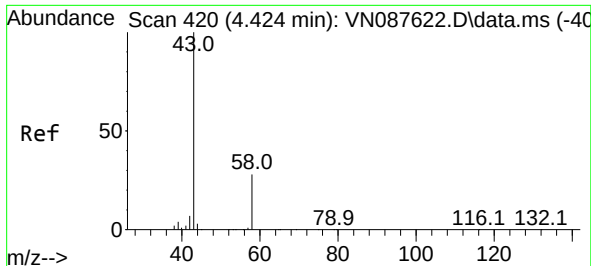
Tgt Ion: 56 Resp: 361
Ion Ratio Lower Upper
56 100
55 183.7 57.3 85.9#



#14
Allyl chloride
Concen: 2.553 ug/l
RT: 4.936 min Scan# 507
Delta R.T. -0.071 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 41 Resp: 10841
Ion Ratio Lower Upper
41 100
39 22.0 63.9 95.9#
76 0.0 28.1 42.1#

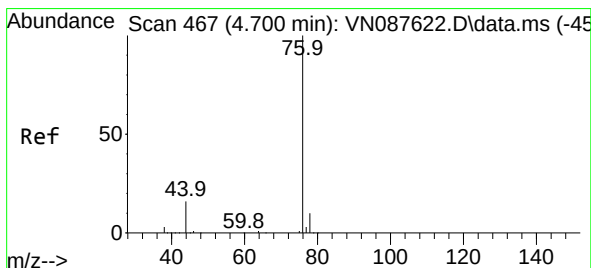
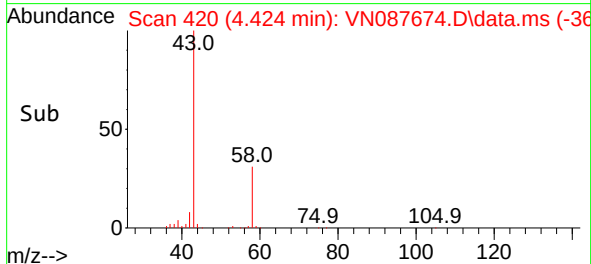
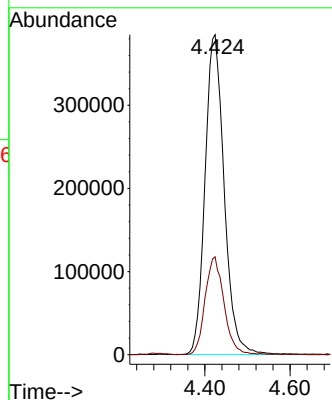
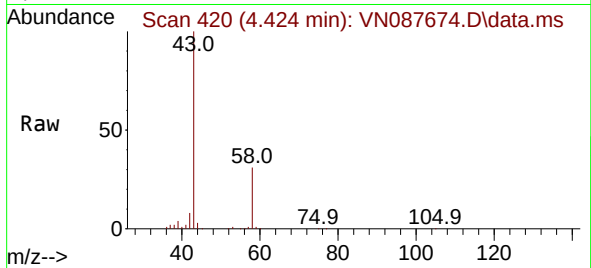




#16
Acetone
Concen: 661.036 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

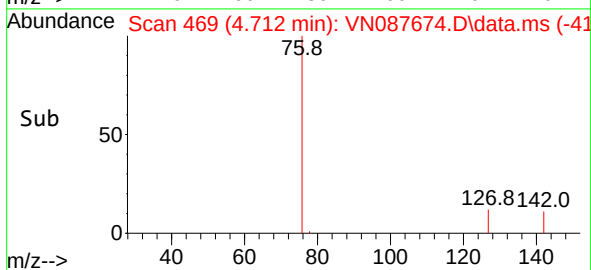
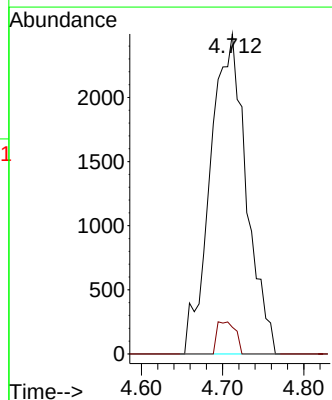
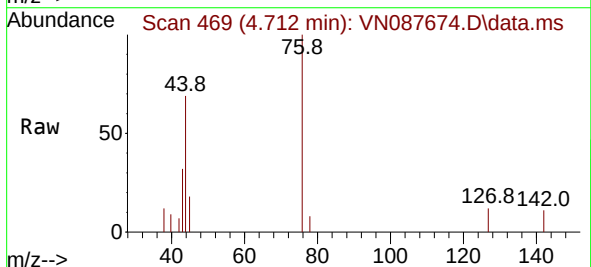
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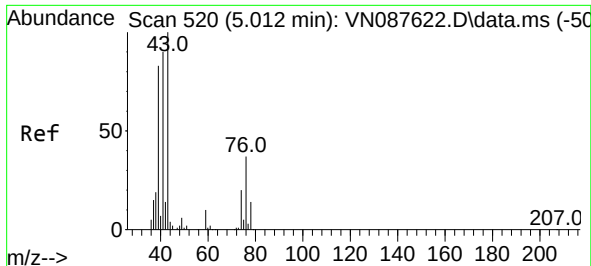
Tgt Ion: 43 Resp: 1198494
Ion Ratio Lower Upper
43 100
58 30.5 22.6 33.8



#17
Carbon Disulfide
Concen: 1.190 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 76 Resp: 7675
Ion Ratio Lower Upper
76 100
78 8.3 7.6 11.4

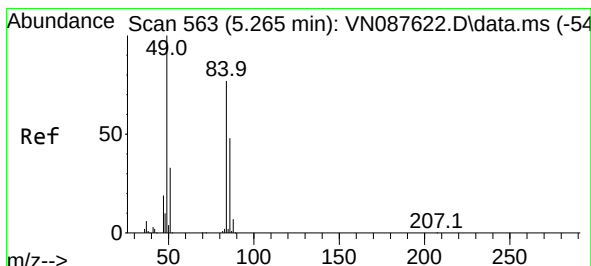
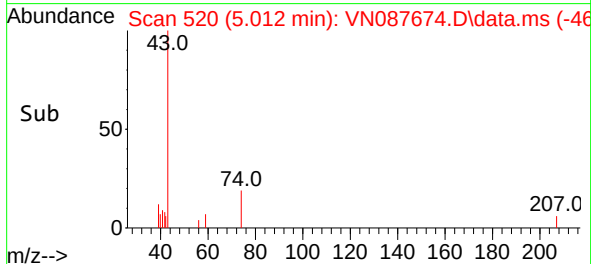
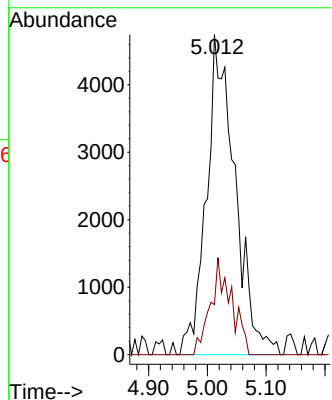
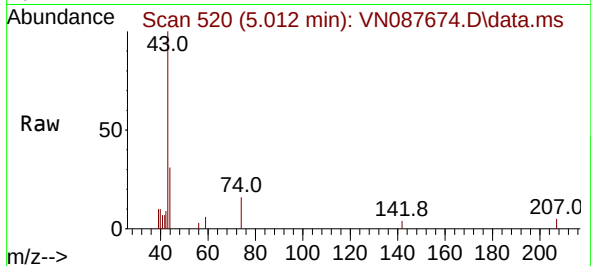




#18
Methyl Acetate
Concen: 4.238 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

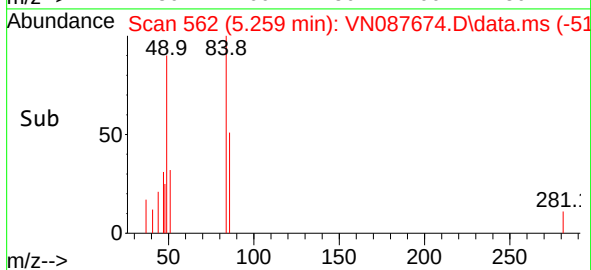
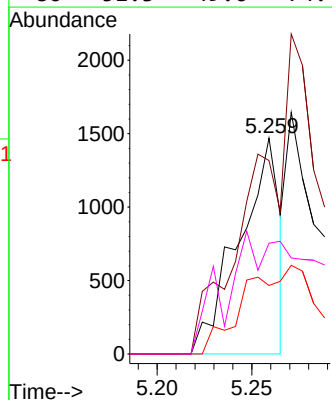
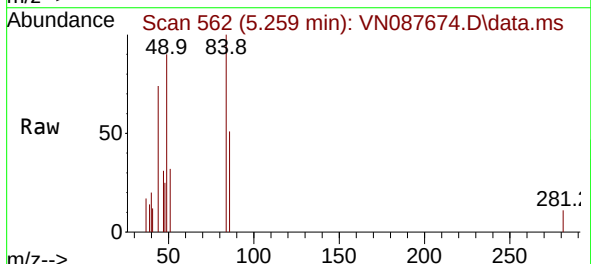
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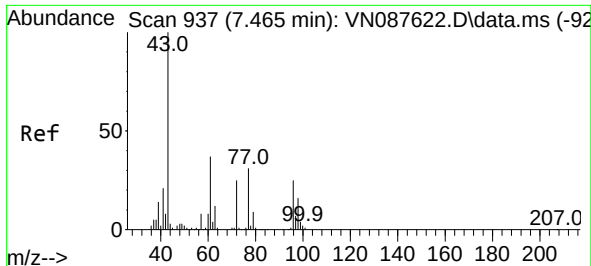
Tgt Ion: 43 Resp: 16088
Ion Ratio Lower Upper
43 100
74 22.0 17.6 26.4



#20
Methylene Chloride
Concen: Below Cal
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 84 Resp: 2188
Ion Ratio Lower Upper
84 100
49 89.6 103.4 155.2#
51 31.8 33.8 50.8#
86 51.3 49.6 74.4

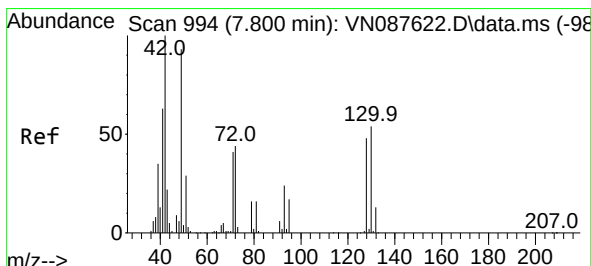
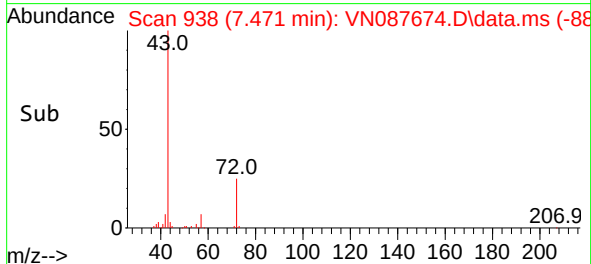
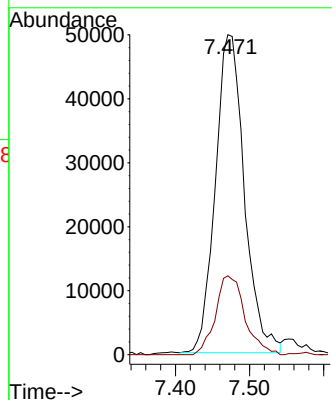
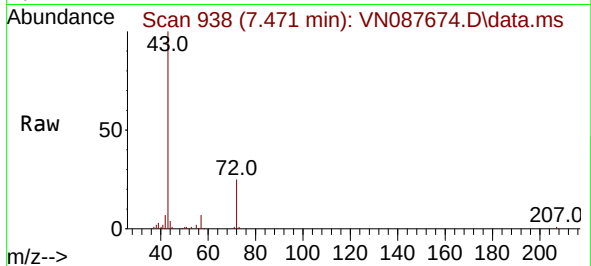




#25
2-Butanone
Concen: 56.673 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

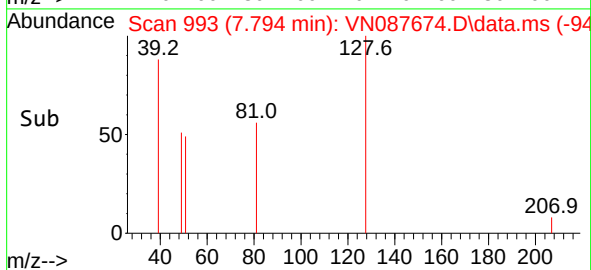
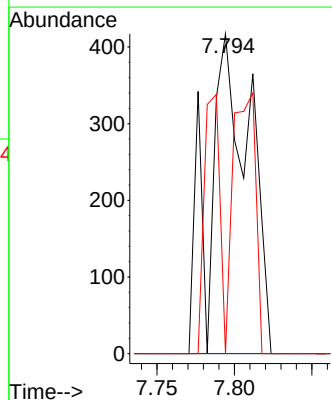
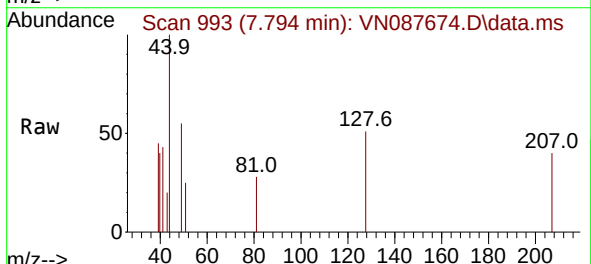
Instrument :
MSVOA_N
ClientSampleId :
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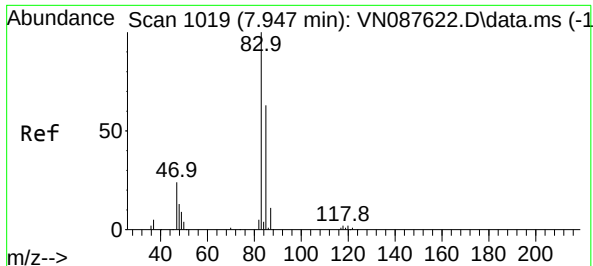
Tgt Ion: 43 Resp: 135182
Ion Ratio Lower Upper
43 100
72 24.8 19.9 29.9



#28
Bromochloromethane
Concen: 0.311 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 49 Resp: 755
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 31.0 53.1 79.7#





#30

Chloroform

Concen: 7.377 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

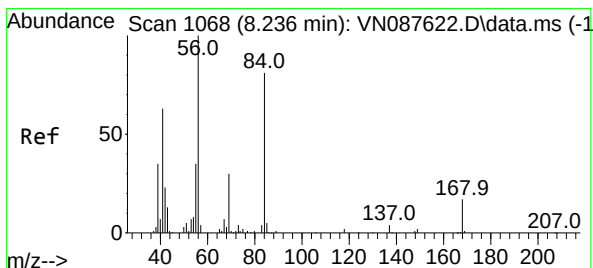
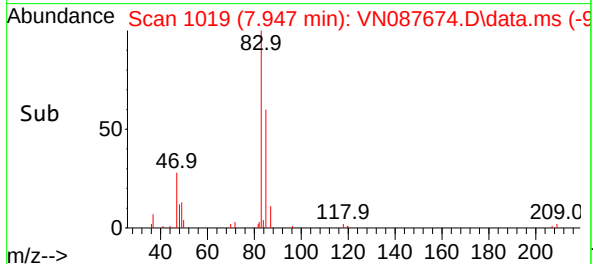
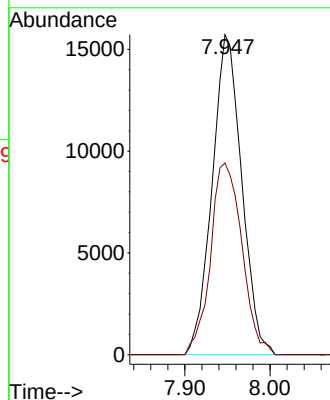
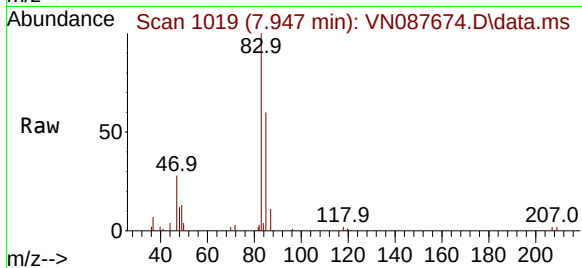
MW3

Tgt Ion: 83 Resp: 37839

Ion Ratio Lower Upper

83 100

85 59.9 50.7 76.1



#31

Cyclohexane

Concen: 1.416 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.030 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

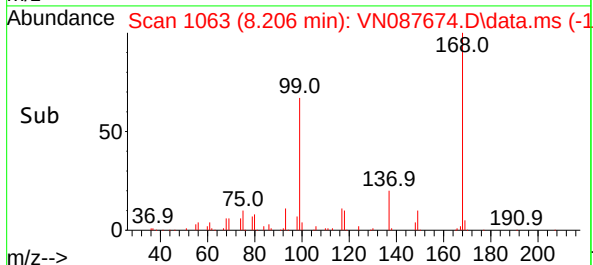
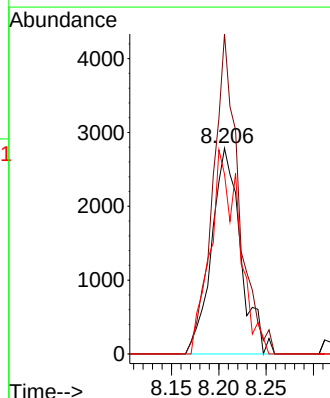
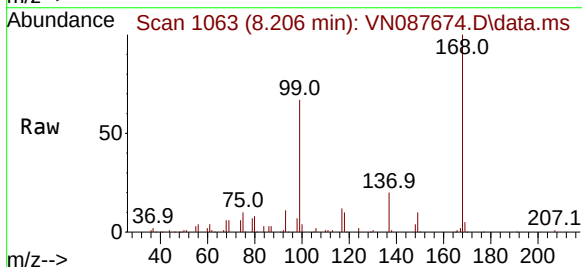
Tgt Ion: 56 Resp: 5934

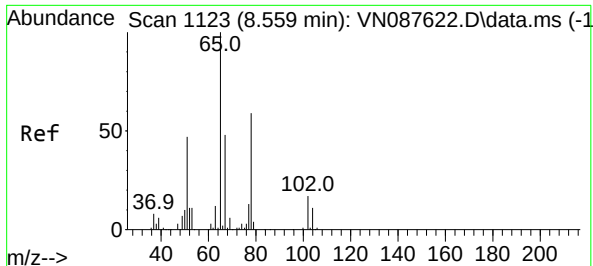
Ion Ratio Lower Upper

56 100

69 155.5 23.7 35.5#

84 87.3 64.7 97.1

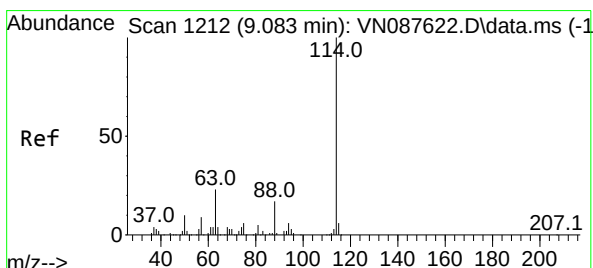
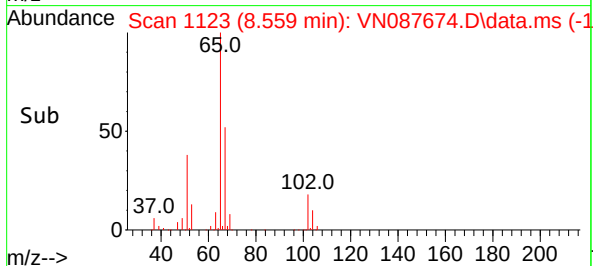
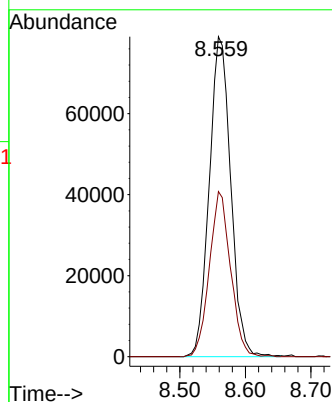
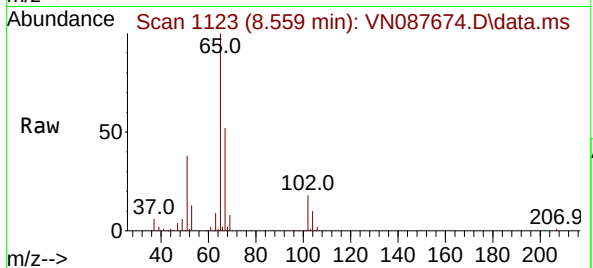




#33
1,2-Dichloroethane-d4
Concen: 53.936 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

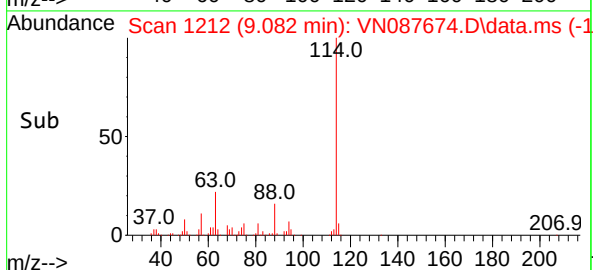
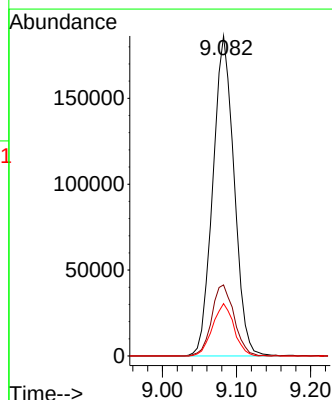
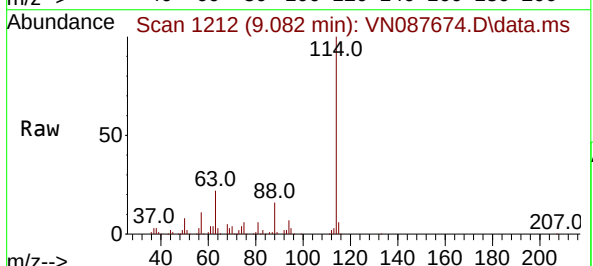
Instrument :
MSVOA_N
ClientSampleId :
MW3

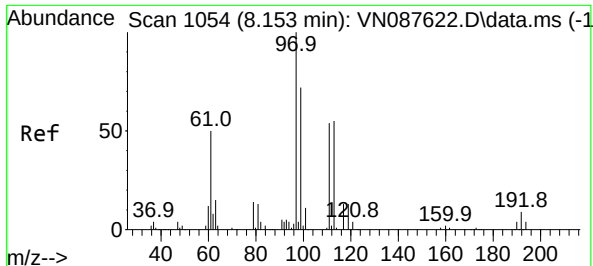
Tgt Ion: 65 Resp: 179637
Ion Ratio Lower Upper
65 100
67 51.0 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 114 Resp: 371496
Ion Ratio Lower Upper
114 100
63 22.2 0.0 45.2
88 16.4 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.507 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

MW3

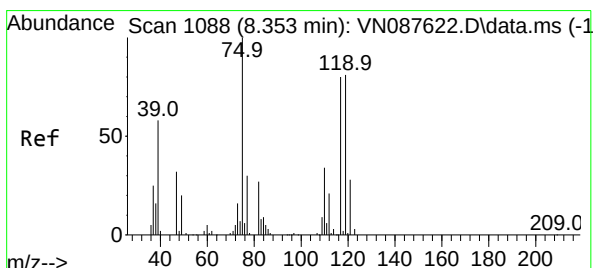
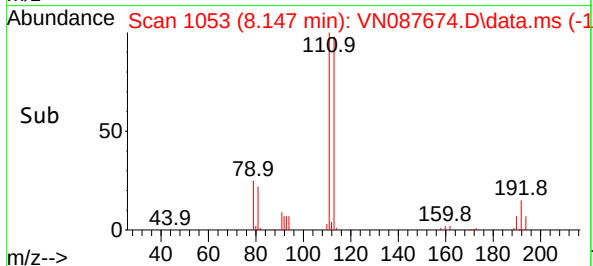
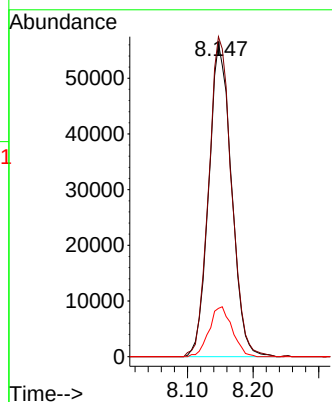
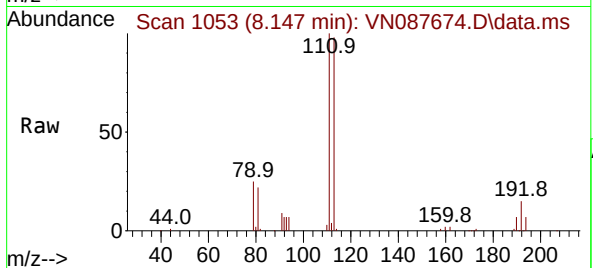
Tgt Ion:113 Resp: 135470

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

192 16.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.999 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

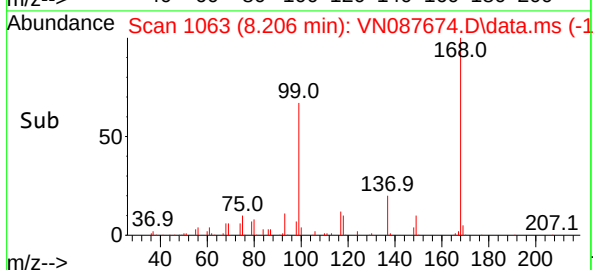
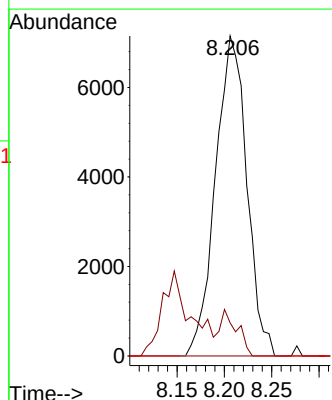
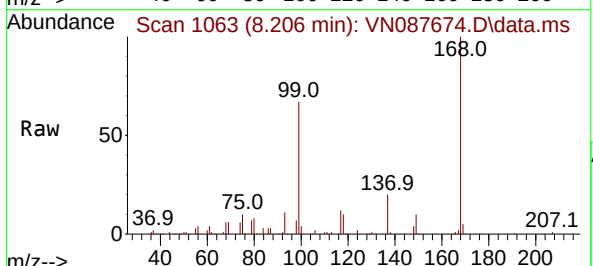
Tgt Ion: 75 Resp: 16457

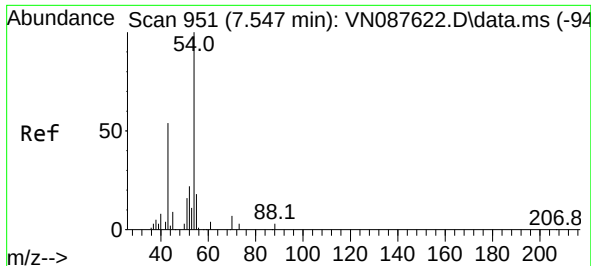
Ion Ratio Lower Upper

75 100

110 8.0 15.9 47.6#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 24.042 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.077 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

MW3

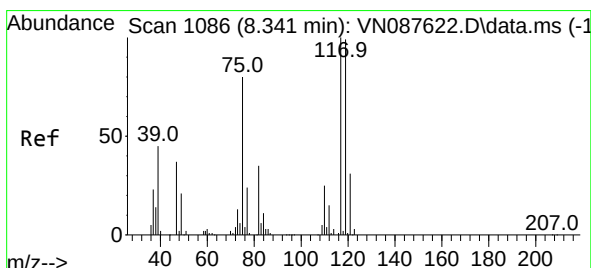
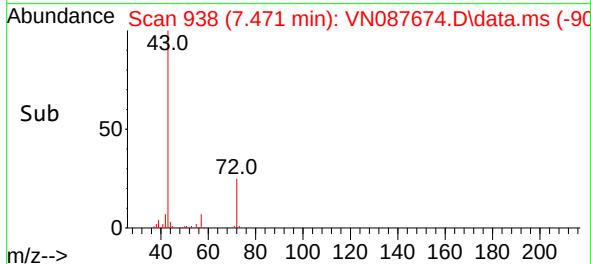
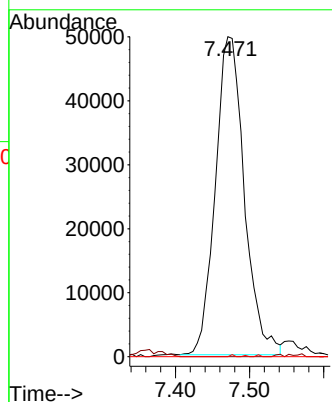
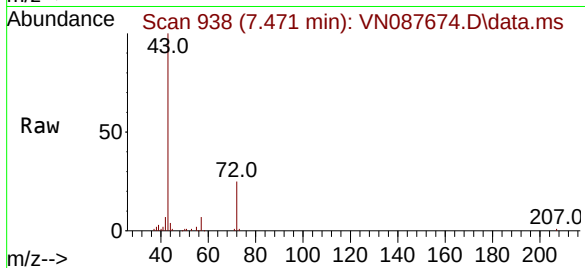
Tgt Ion: 43 Resp: 135182

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.1 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.690 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN087674.D

Acq: 26 Aug 2025 16:45

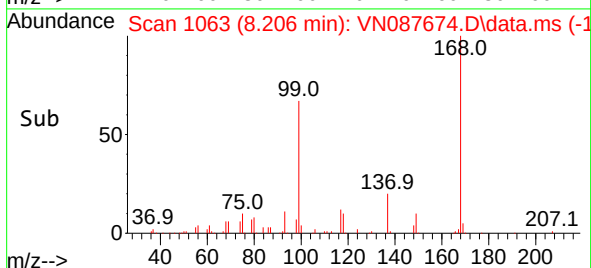
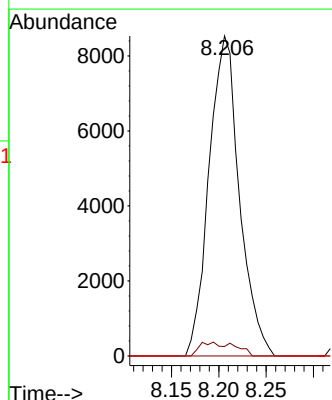
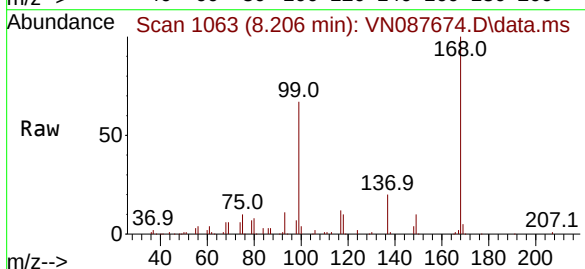
Tgt Ion: 117 Resp: 19053

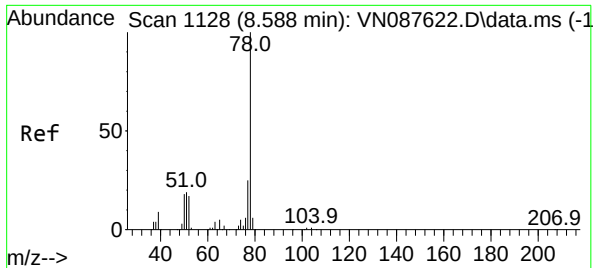
Ion Ratio Lower Upper

117 100

119 2.9 79.0 118.6#

121 0.0 25.0 37.6#

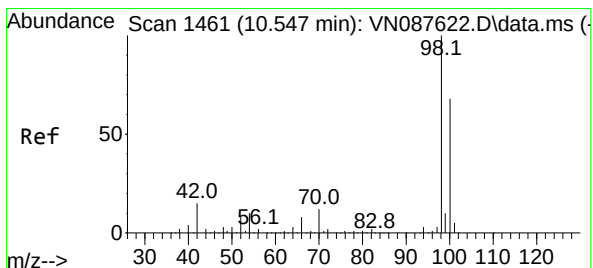
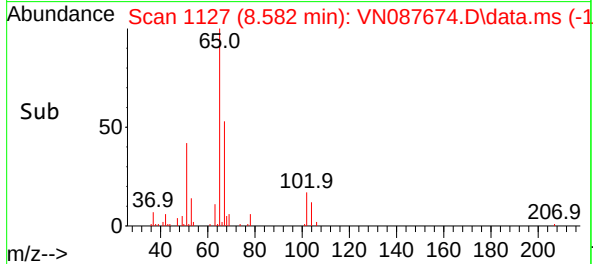
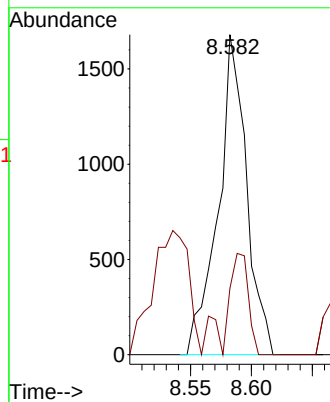
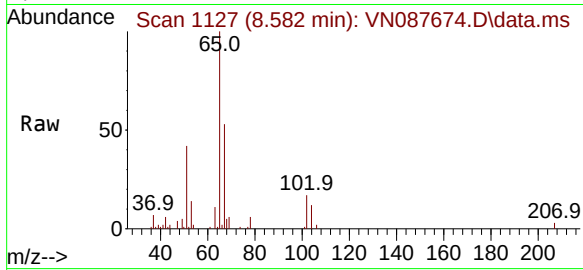




#40
Benzene
Concen: 0.215 ug/l
RT: 8.582 min Scan# 1128
Delta R.T. -0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

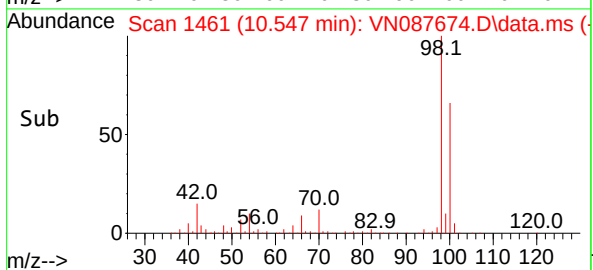
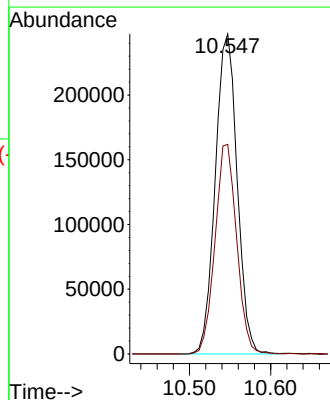
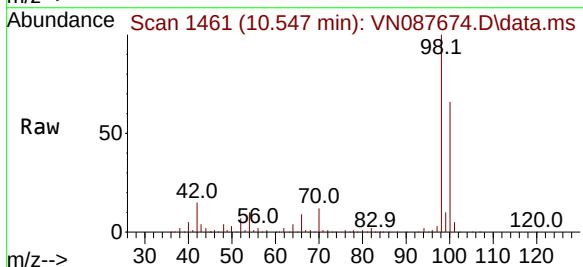
Instrument :
MSVOA_N
ClientSampleId :
MW3

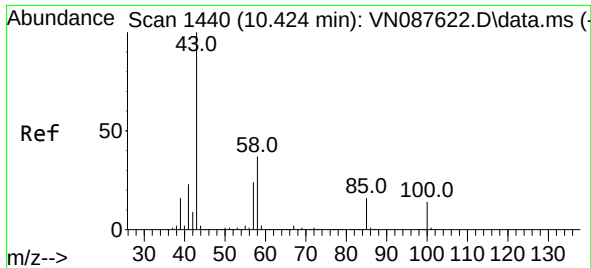
Tgt Ion: 78 Resp: 2711
Ion Ratio Lower Upper
78 100
77 20.8 19.7 29.5



#50
Toluene-d8
Concen: 46.126 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 98 Resp: 463062
Ion Ratio Lower Upper
98 100
100 64.7 52.8 79.2

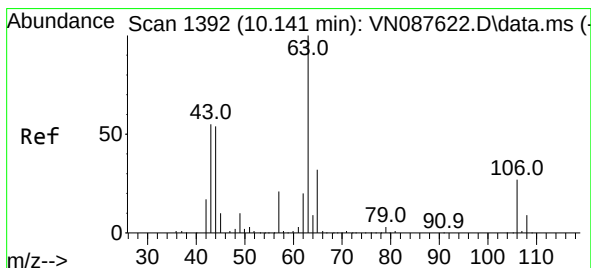
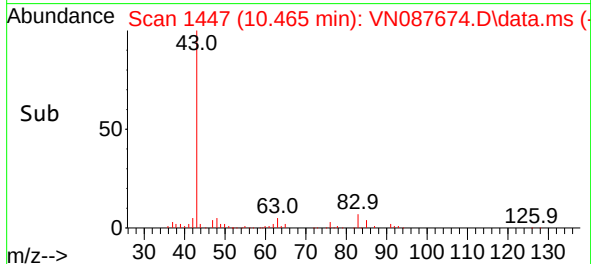
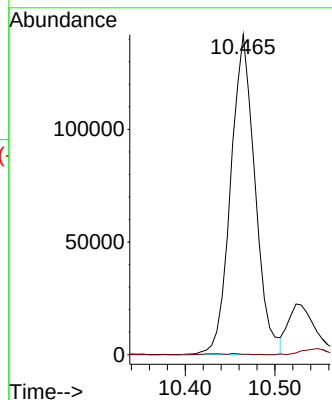
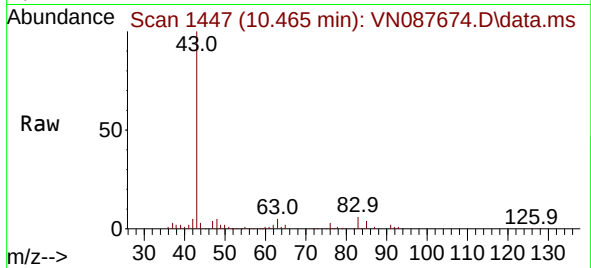




#51
4-Methyl-2-Pentanone
Concen: 50.487 ug/l
RT: 10.465 min Scan# 1440
Delta R.T. 0.041 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

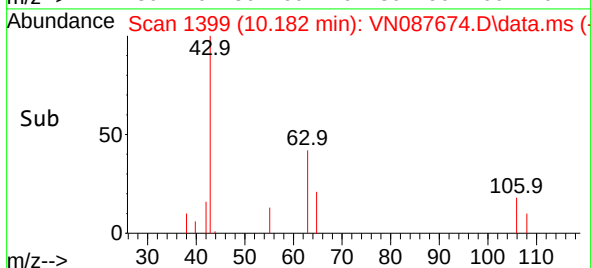
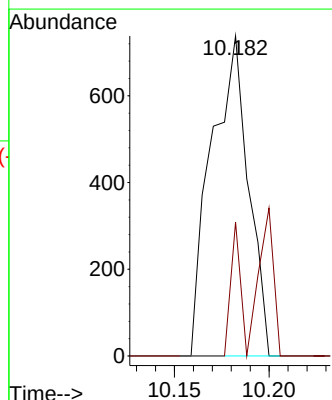
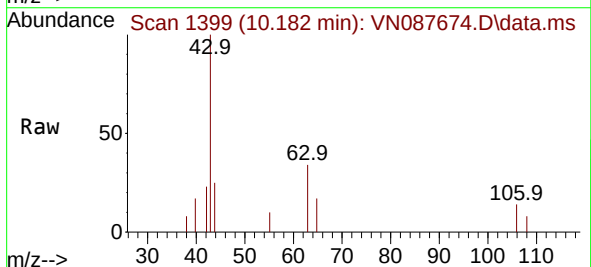
Instrument :
MSVOA_N
ClientSampleId :
MW3

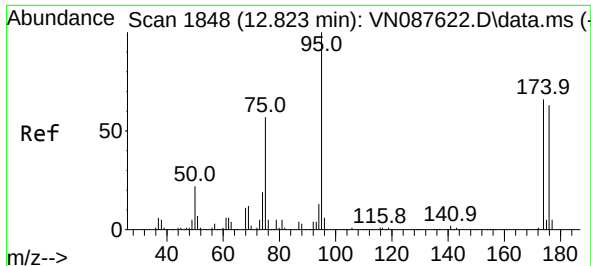
Tgt Ion: 43 Resp: 267407
Ion Ratio Lower Upper
43 100
58 0.2 29.6 44.4#



#58
2-Chloroethyl Vinyl ether
Concen: 0.384 ug/l
RT: 10.182 min Scan# 1399
Delta R.T. 0.041 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 63 Resp: 1005
Ion Ratio Lower Upper
63 100
106 10.8 21.1 31.7#

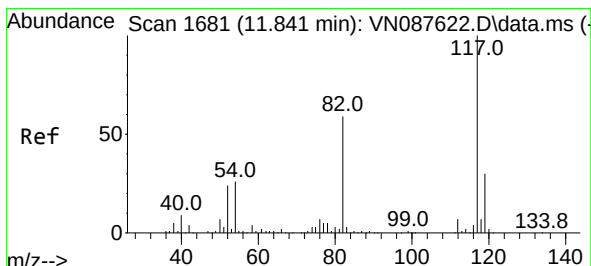
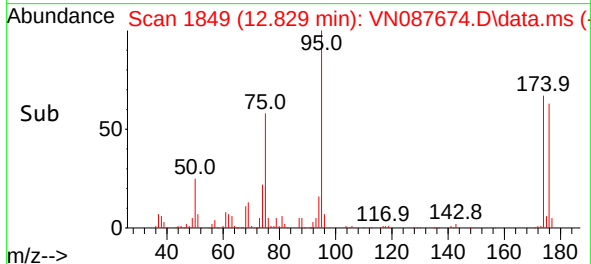
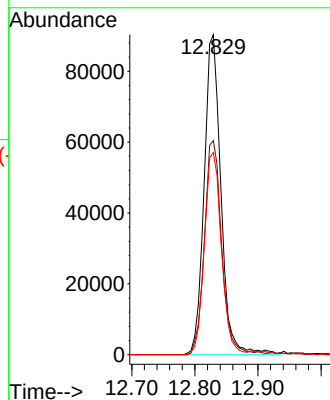
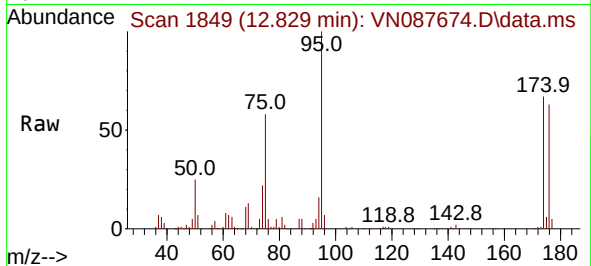




#62
4-Bromofluorobenzene
Concen: 46.820 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

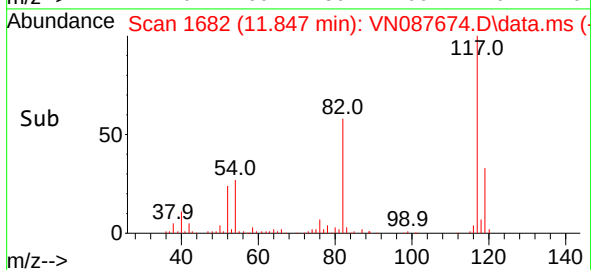
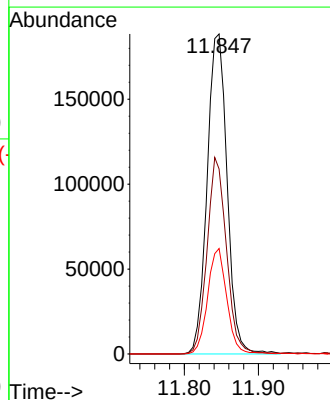
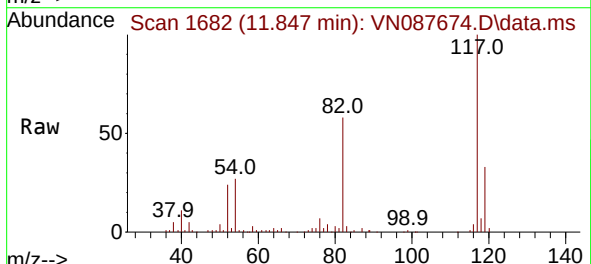
Instrument :
MSVOA_N
ClientSampleId :
MW3

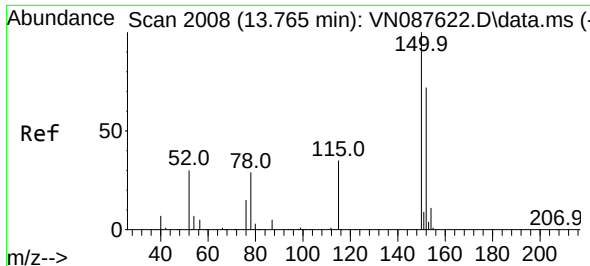
Tgt Ion: 95 Resp: 167156
Ion Ratio Lower Upper
95 100
174 68.4 0.0 138.4
176 64.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087674.D
Acq: 26 Aug 2025 16:45

Tgt Ion: 117 Resp: 353184
Ion Ratio Lower Upper
117 100
82 57.8 47.4 71.2
119 33.0 24.3 36.5

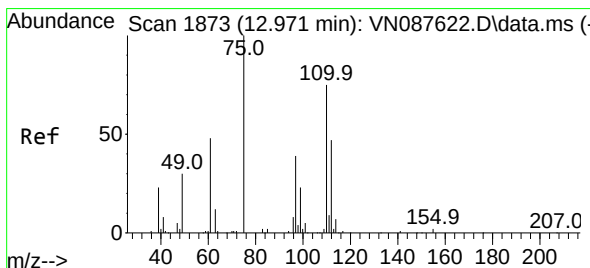
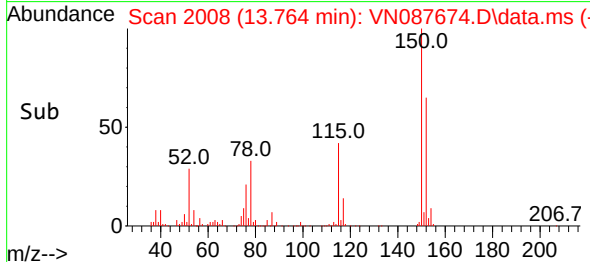
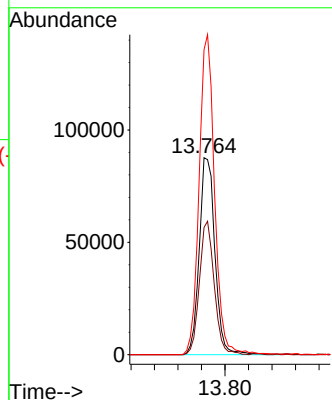
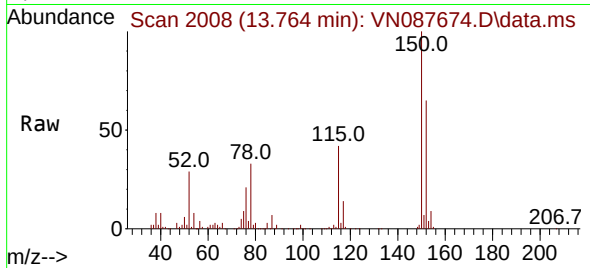




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.764 min Scan# 2008
 Delta R.T. -0.000 min
 Lab File: VN087674.D
 Acq: 26 Aug 2025 16:45

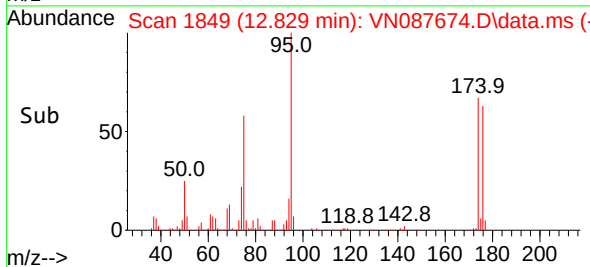
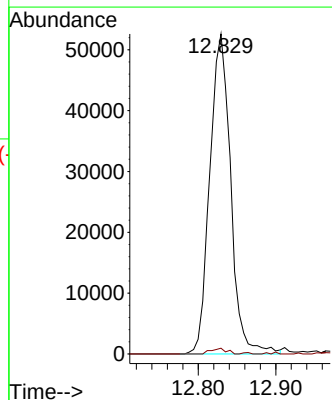
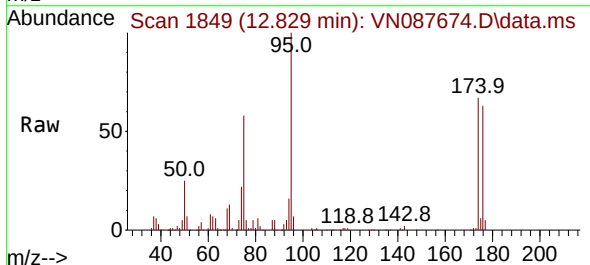
Instrument :
 MSVOA_N
 ClientSampleId :
 MW3

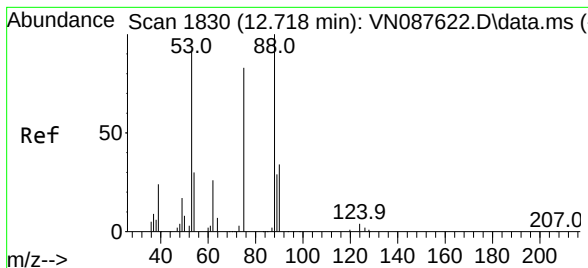
Tgt Ion:152 Resp: 162592
 Ion Ratio Lower Upper
 152 100
 115 63.9 32.3 96.8
 150 159.8 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.891 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087674.D
 Acq: 26 Aug 2025 16:45

Tgt Ion: 75 Resp: 98718
 Ion Ratio Lower Upper
 75 100
 77 1.3 89.1 267.4#

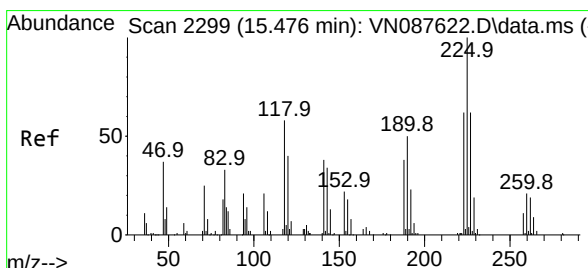
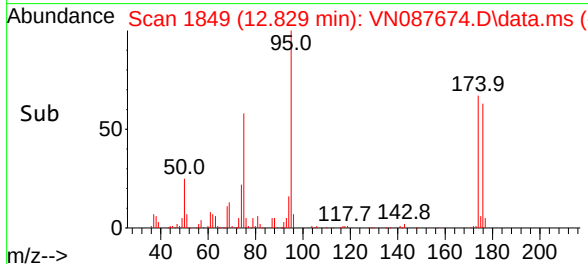
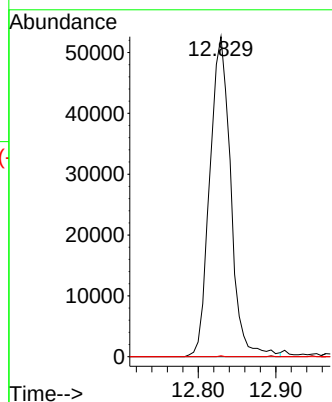
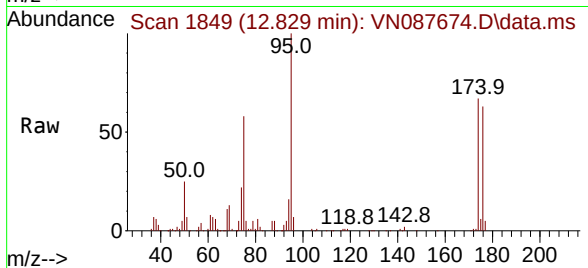




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.543 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087674.D
 Acq: 26 Aug 2025 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3

Tgt Ion: 75 Resp: 98718
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.1 35.6 53.4#



#94
 Hexachlorobutadiene
 Concen: 0.257 ug/l
 RT: 15.482 min Scan# 2300
 Delta R.T. 0.006 min
 Lab File: VN087674.D
 Acq: 26 Aug 2025 16:45

Tgt Ion: 225 Resp: 318
 Ion Ratio Lower Upper
 225 100
 223 66.0 32.0 96.2
 227 0.0 32.1 96.5#

