

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088175.D
 Acq On : 31 Oct 2025 10:13
 Operator : JC\MD
 Sample : VN1031WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBL01

Quant Time: Nov 01 00:27:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

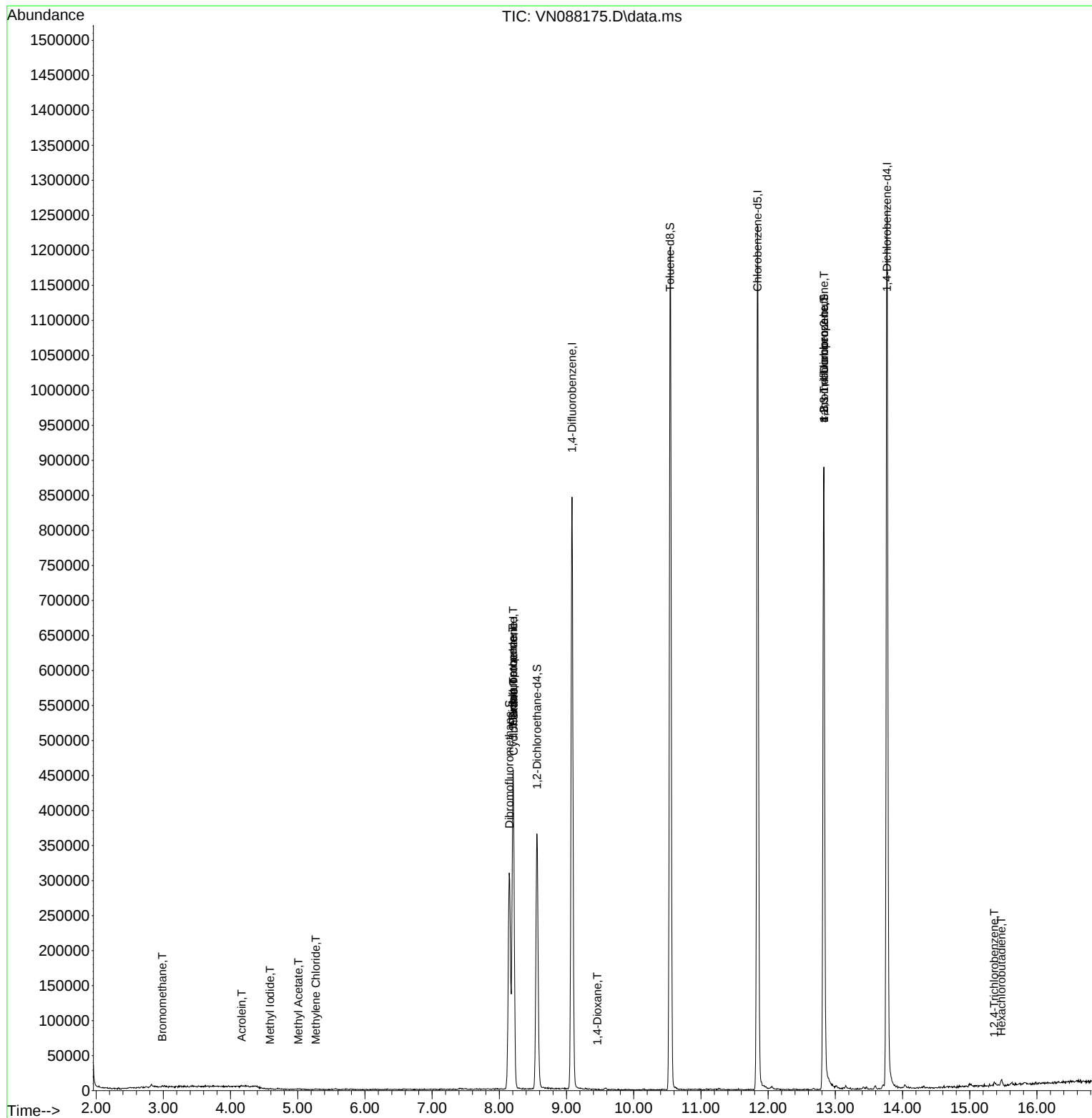
Internal Standards						
1) Pentafluorobenzene	8.206	168	306226	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	688960	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	672823	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	336304	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	308082	58.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.360%			
35) Dibromofluoromethane	8.147	113	222261	48.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.040%			
50) Toluene-d8	10.541	98	824372	46.224	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.440%			
62) 4-Bromofluorobenzene	12.829	95	335430	53.256	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.520%			
Target Compounds						Qvalue
5) Bromomethane	2.983	94	551	0.208	ug/l	94
10) Methyl Iodide	4.589	142	234	4.270	ug/l #	38
13) Acrolein	4.165	56	348	0.339	ug/l #	40
18) Methyl Acetate	5.012	43	1384	0.254	ug/l #	54
20) Methylene Chloride	5.271	84	425	0.874	ug/l #	47
31) Cyclohexane	8.212	56	9325	1.258	ug/l #	16
36) 1,1-Dichloropropene	8.200	75	30329	4.488	ug/l #	52
38) Carbon Tetrachloride	8.206	117	35873	5.139	ug/l #	14
49) 1,4-Dioxane	9.459	88	118	1.533	ug/l #	13
76) 1,2,3-Trichloropropane	12.829	75	192352	25.017	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	192352	69.785	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.365	180	1512	0.232	ug/l	95
94) Hexachlorobutadiene	15.470	225	1205	0.496	ug/l	88

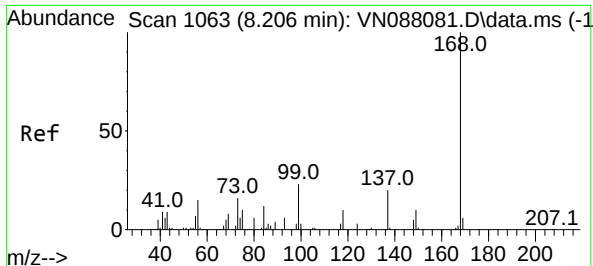
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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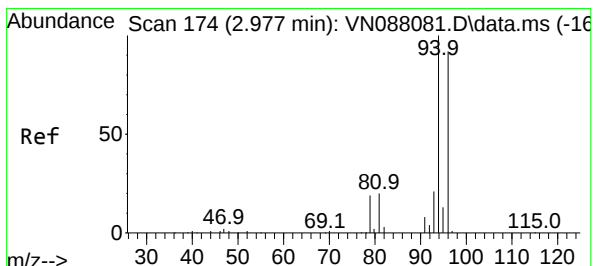
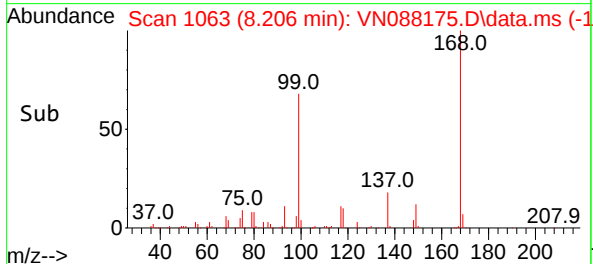
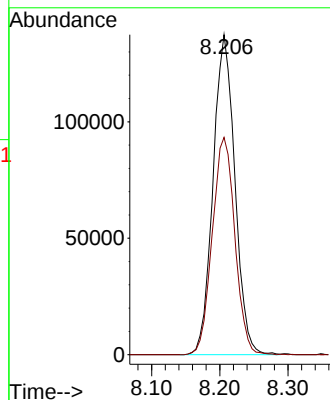
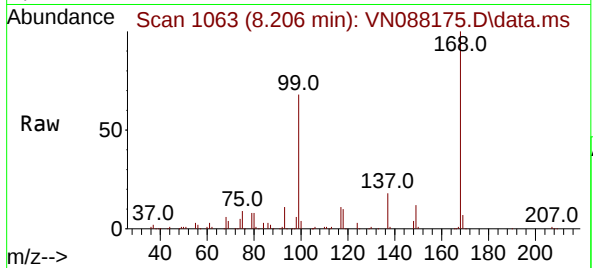




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

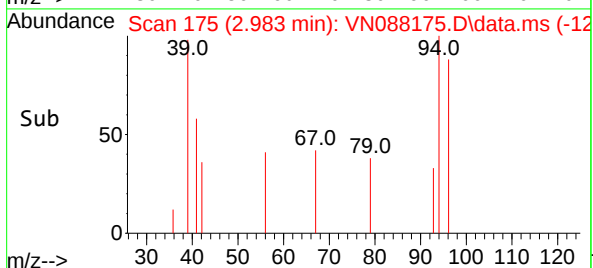
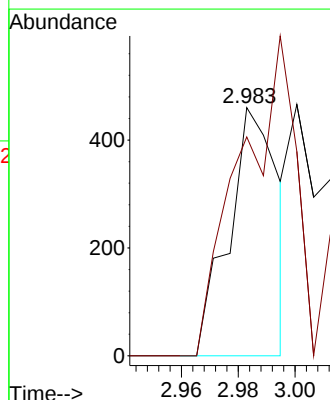
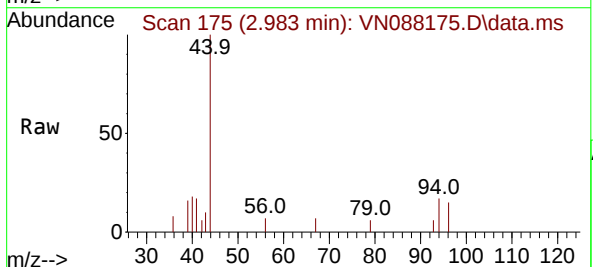
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

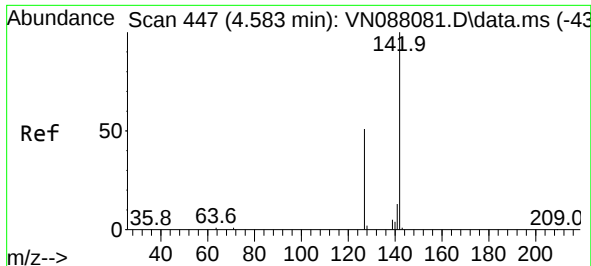
Tgt Ion:168 Resp: 306226
Ion Ratio Lower Upper
168 100
99 67.9 57.2 85.8



#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

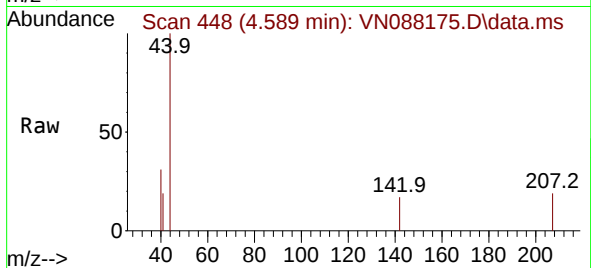
Tgt Ion: 94 Resp: 551
Ion Ratio Lower Upper
94 100
96 88.3 75.4 113.2



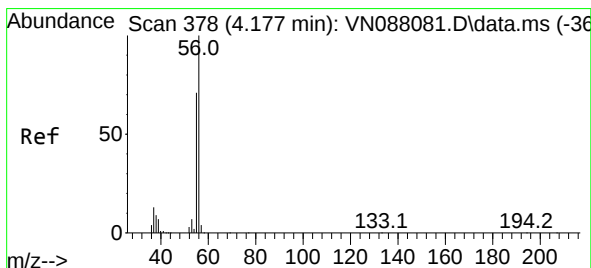
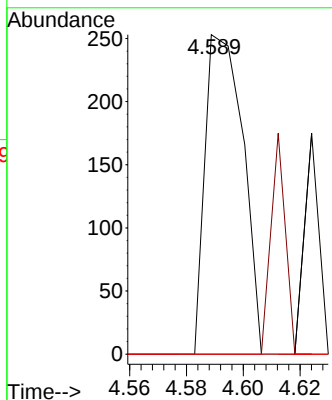
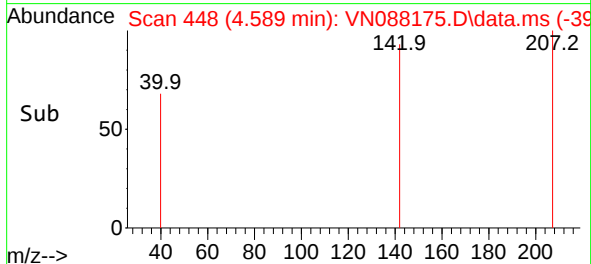


#10
Methyl Iodide
Concen: 4.270 ug/l
RT: 4.589 min Scan# 447
Delta R.T. 0.012 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

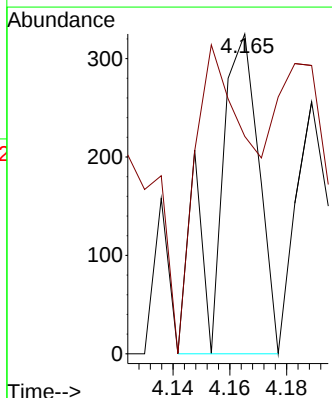
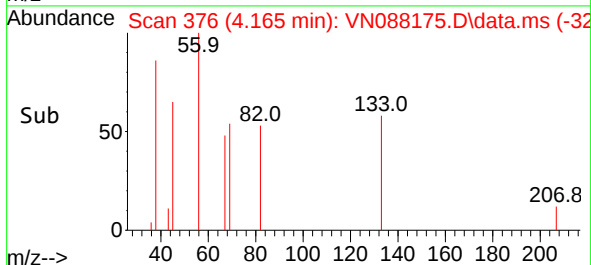
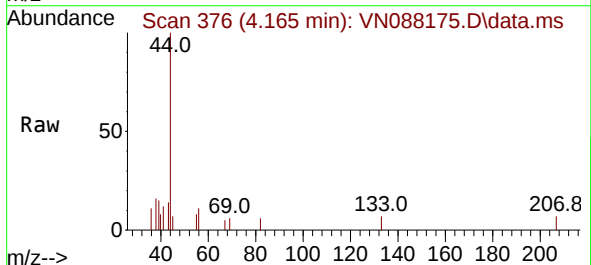


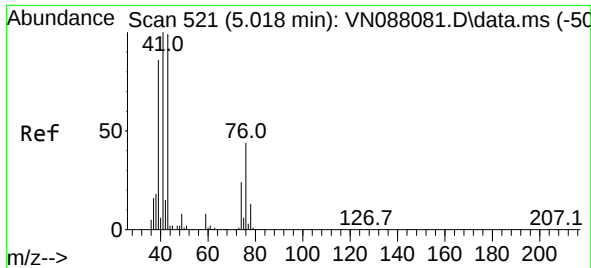
Tgt Ion:142 Resp: 234
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.339 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

Tgt Ion: 56 Resp: 348
Ion Ratio Lower Upper
56 100
55 121.6 57.3 85.9#

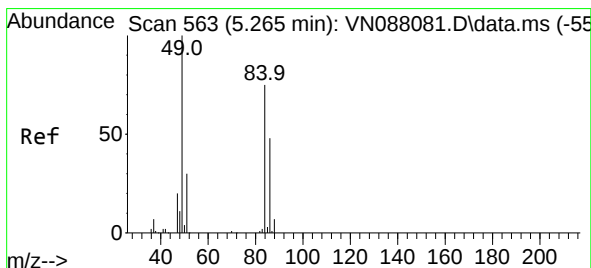
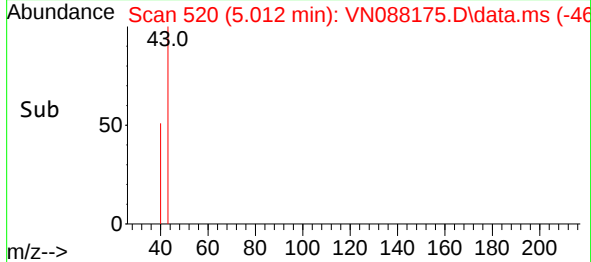
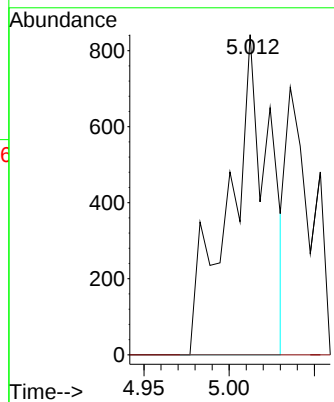
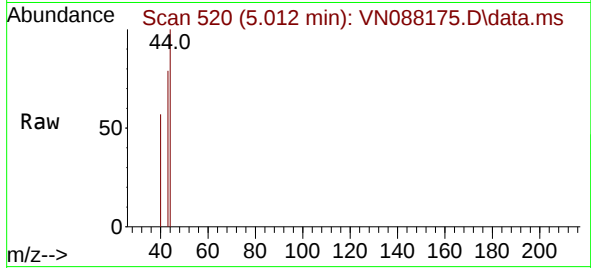




#18
Methyl Acetate
Concen: 0.254 ug/l
RT: 5.012 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

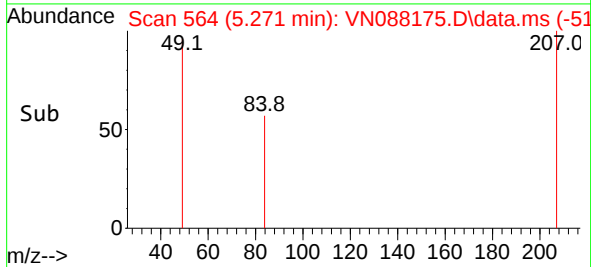
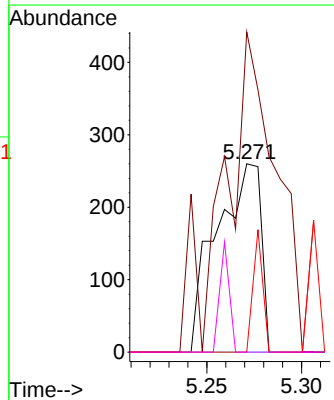
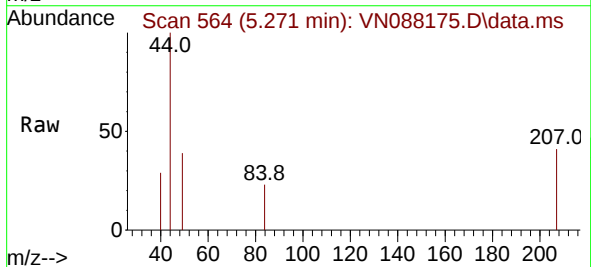
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

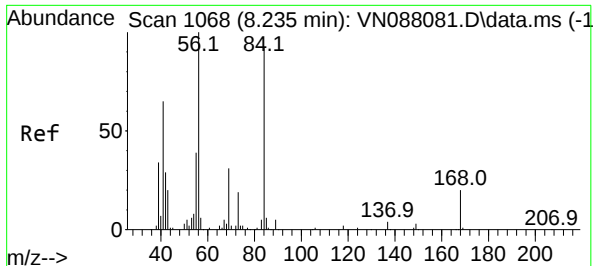
Tgt Ion: 43 Resp: 1384
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.874 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

Tgt Ion: 84 Resp: 425
Ion Ratio Lower Upper
84 100
49 170.0 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

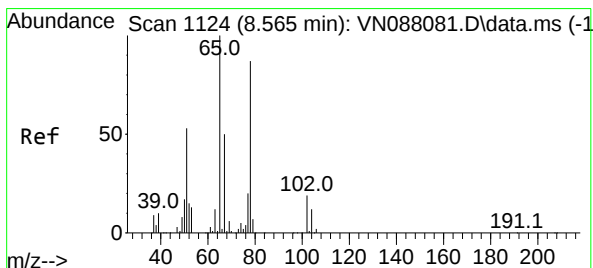
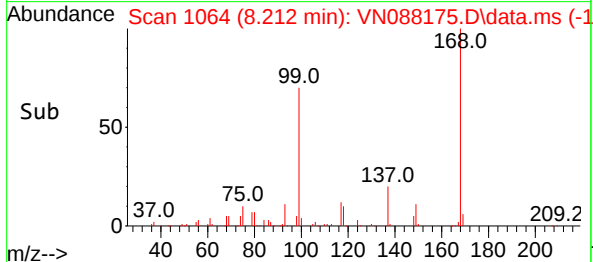
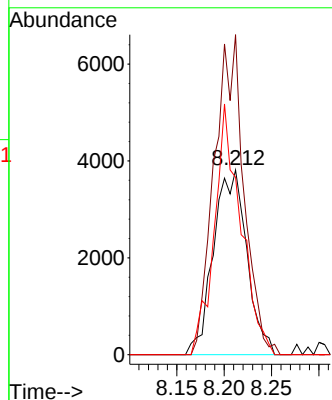
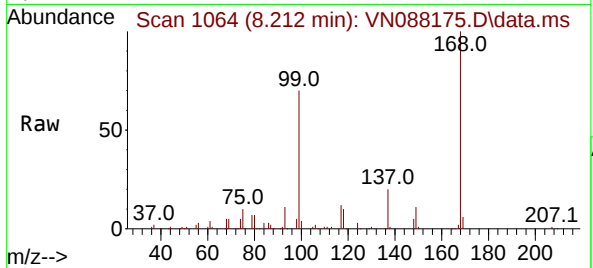




#31
Cyclohexane
Concen: 1.258 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

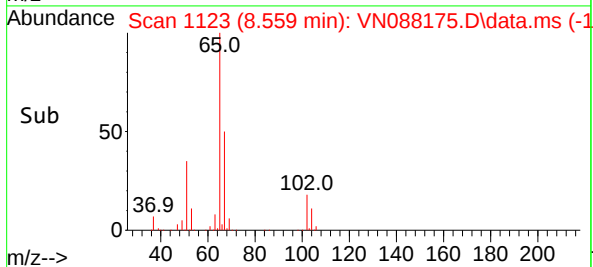
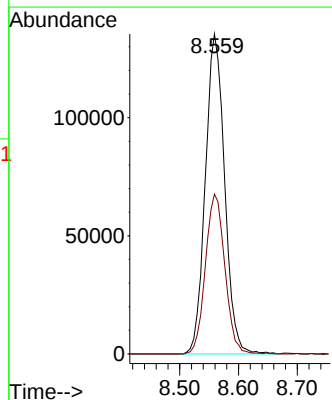
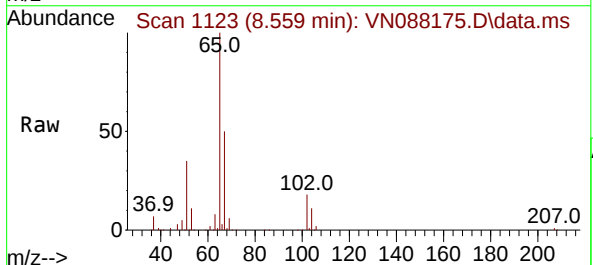
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

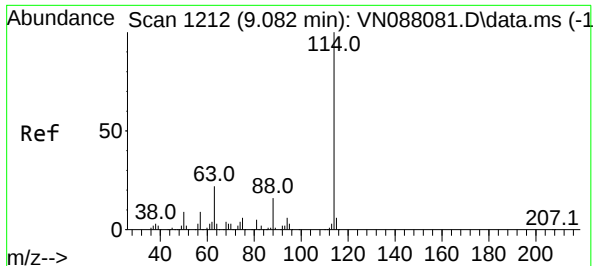
Tgt Ion: 56 Resp: 9325
Ion Ratio Lower Upper
56 100
69 173.3 23.7 35.5#
84 96.1 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 58.180 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

Tgt Ion: 65 Resp: 308082
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088175.D

Acq: 31 Oct 2025 10:13

Instrument :

MSVOA_N

ClientSampleId :

VN1031WBL01

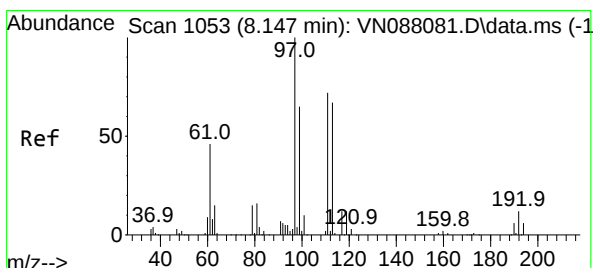
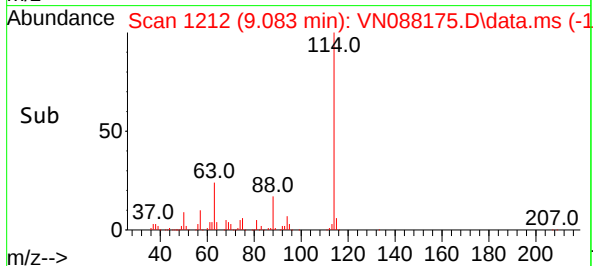
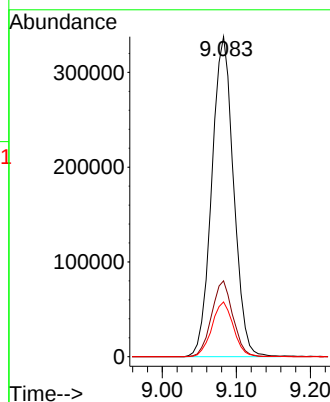
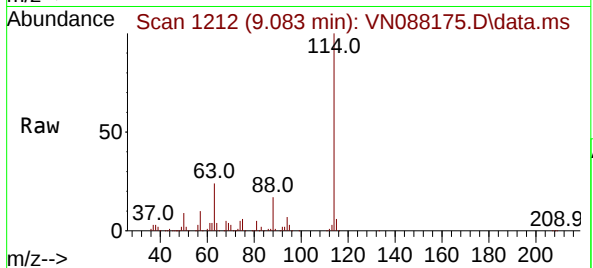
Tgt Ion:114 Resp: 688960

Ion Ratio Lower Upper

114 100

63 23.7 0.0 45.2

88 17.1 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.020 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088175.D

Acq: 31 Oct 2025 10:13

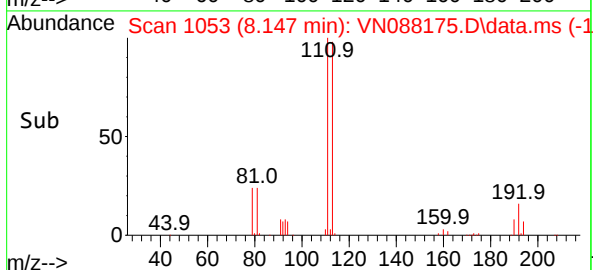
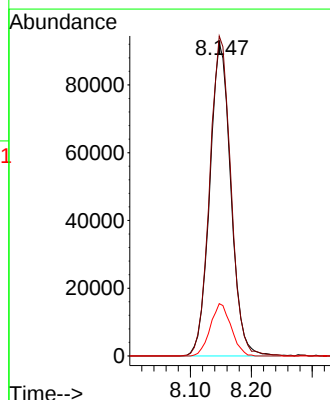
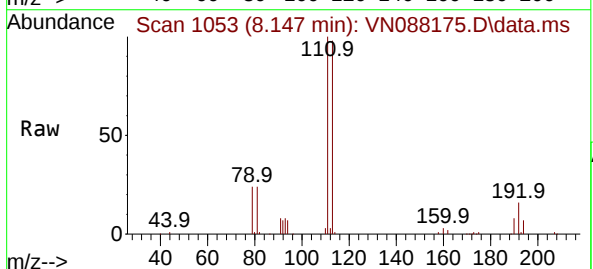
Tgt Ion:113 Resp: 222261

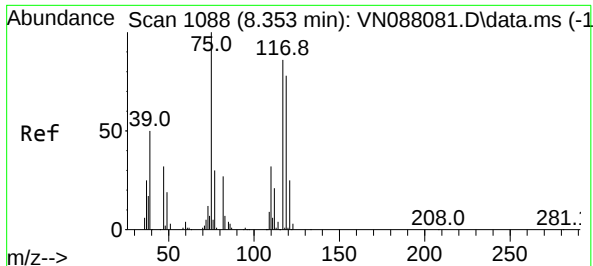
Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.488 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088175.D

Acq: 31 Oct 2025 10:13

Instrument :

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ClientSampleId :

VN1031WBL01

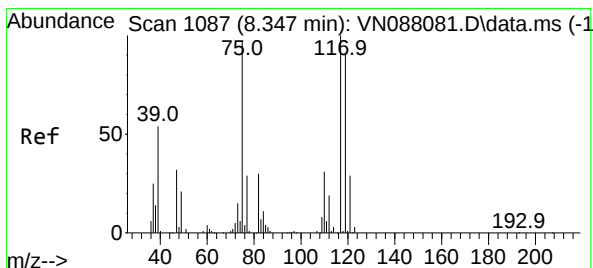
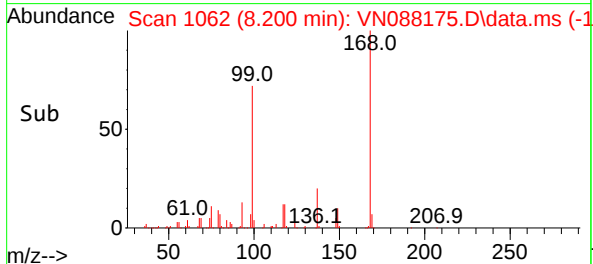
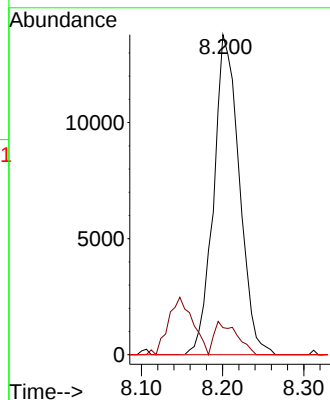
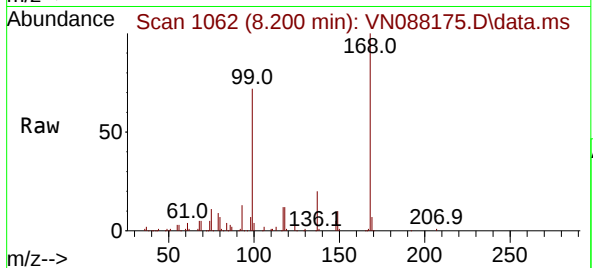
Tgt Ion: 75 Resp: 30329

Ion Ratio Lower Upper

75 100

110 9.0 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.139 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088175.D

Acq: 31 Oct 2025 10:13

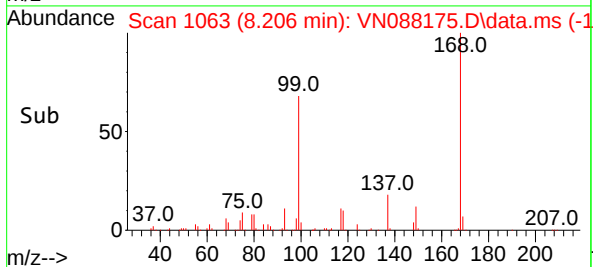
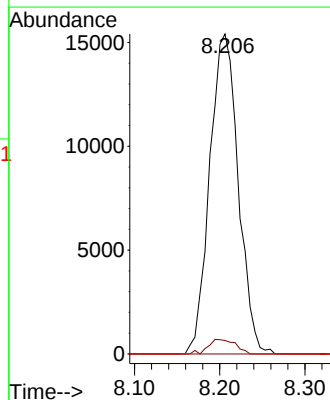
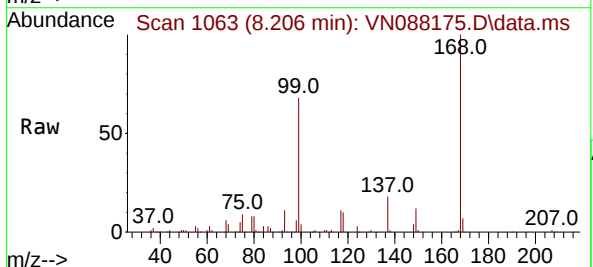
Tgt Ion: 117 Resp: 35873

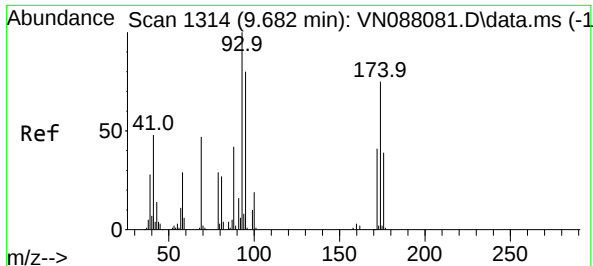
Ion Ratio Lower Upper

117 100

119 4.2 79.0 118.6#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 1.533 ug/l

RT: 9.459 min Scan# 11

Delta R.T. -0.223 min

Lab File: VN088175.D

Acq: 31 Oct 2025 10:13

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VN1031WBL01

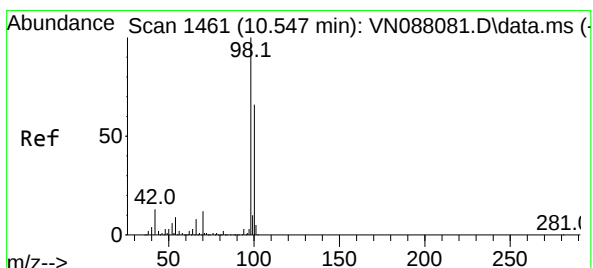
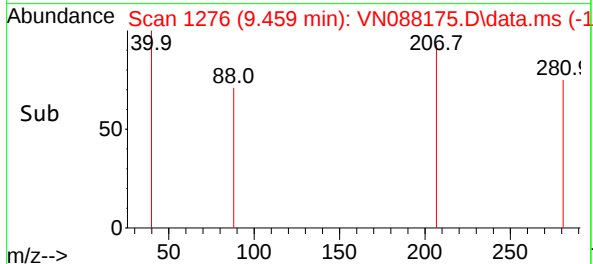
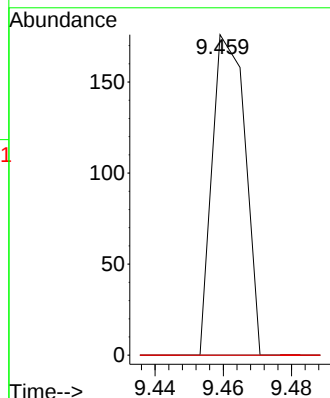
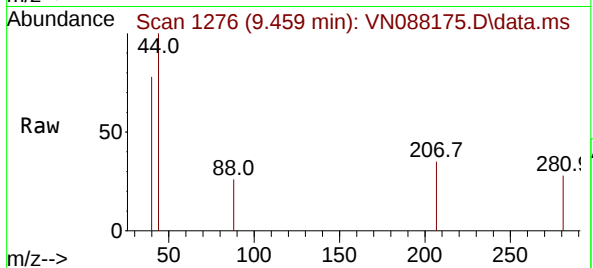
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 46.224 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088175.D

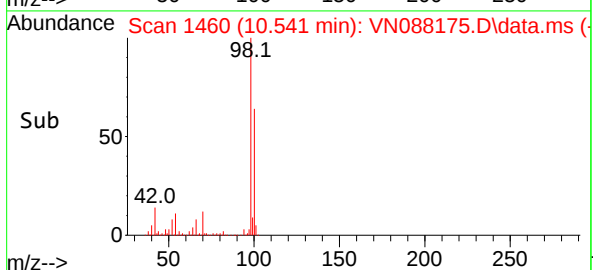
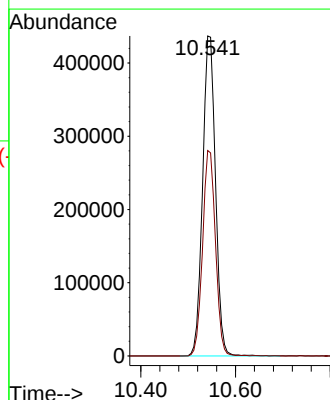
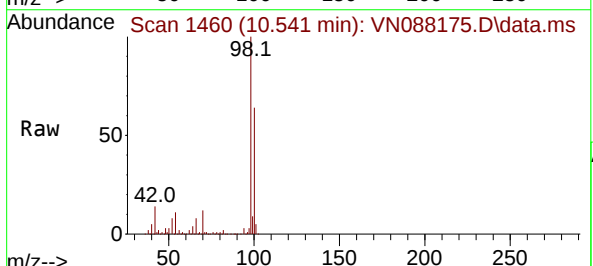
Acq: 31 Oct 2025 10:13

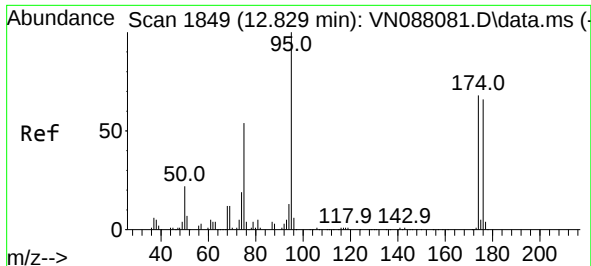
Tgt Ion: 98 Resp: 824372

Ion Ratio Lower Upper

98 100

100 64.2 52.8 79.2

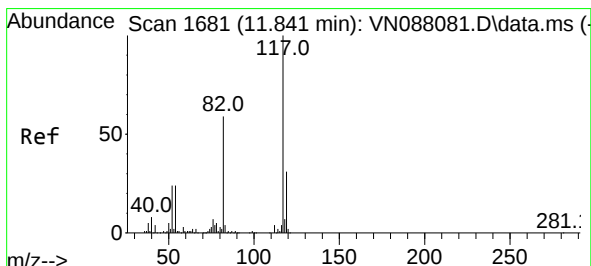
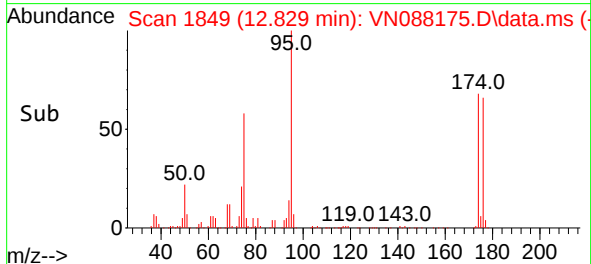
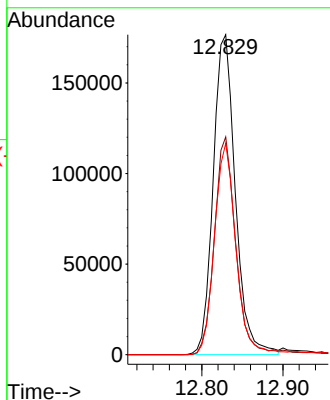
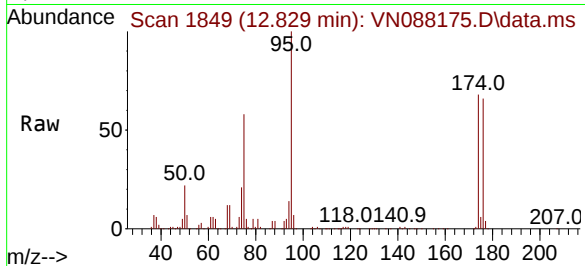




#62
4-Bromofluorobenzene
Concen: 53.256 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

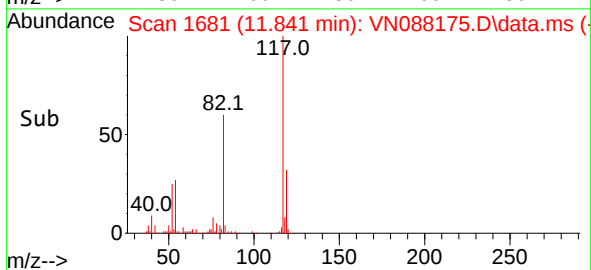
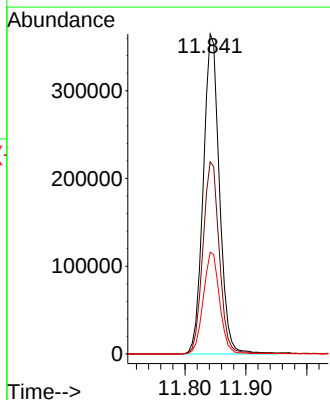
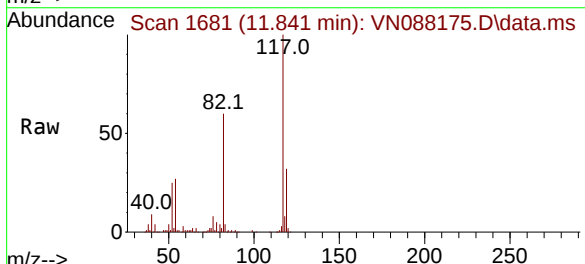
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

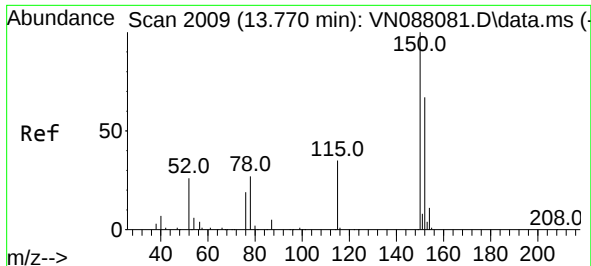
Tgt Ion: 95 Resp: 335430
Ion Ratio Lower Upper
95 100
174 66.0 0.0 138.4
176 64.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

Tgt Ion: 117 Resp: 672823
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 31.8 24.3 36.5

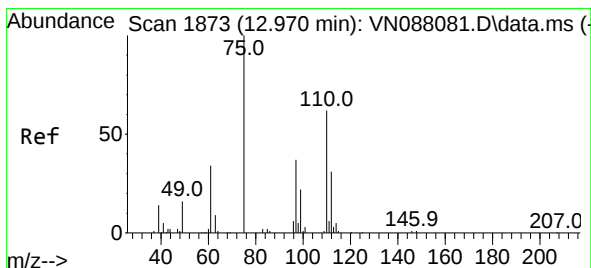
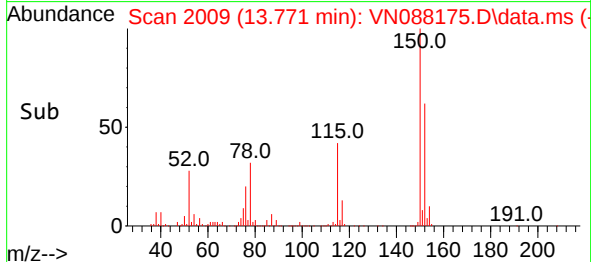
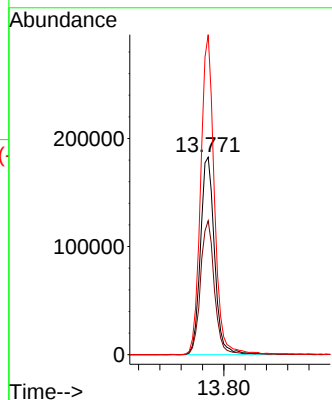
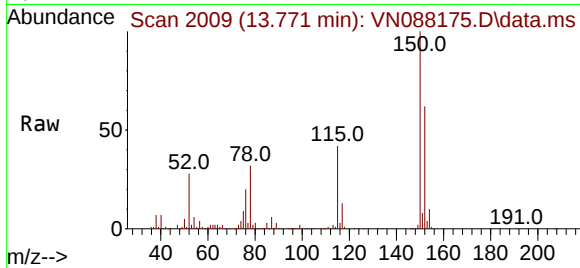




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088175.D
 Acq: 31 Oct 2025 10:13

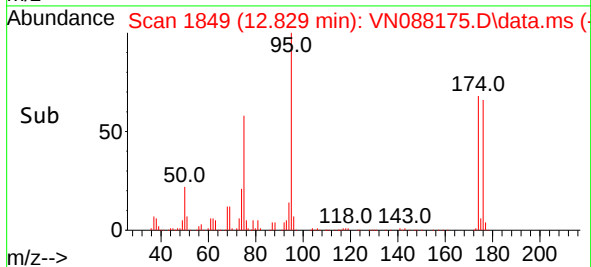
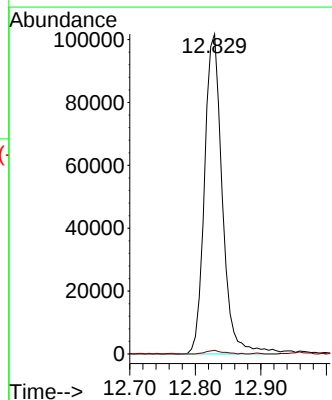
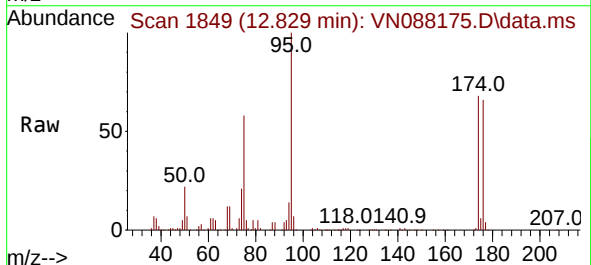
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBL01

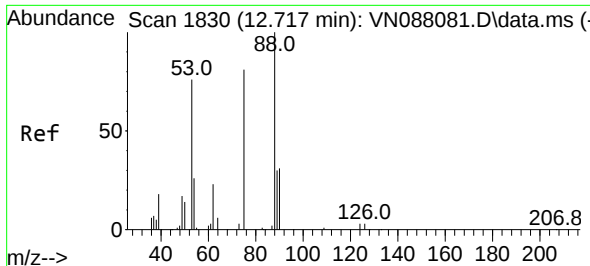
Tgt Ion:152 Resp: 336304
 Ion Ratio Lower Upper
 152 100
 115 66.4 32.3 96.8
 150 157.0 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.017 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088175.D
 Acq: 31 Oct 2025 10:13

Tgt Ion: 75 Resp: 192352
 Ion Ratio Lower Upper
 75 100
 77 1.1 89.1 267.4#

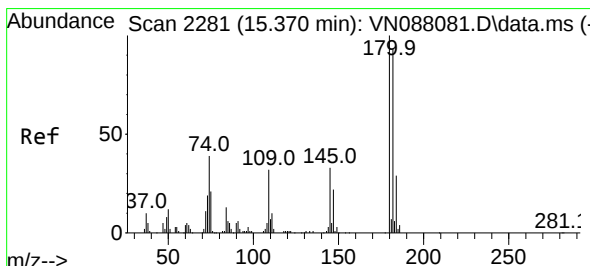
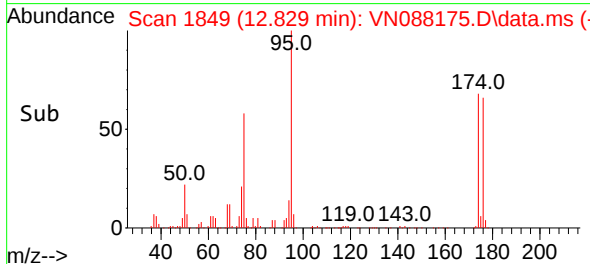
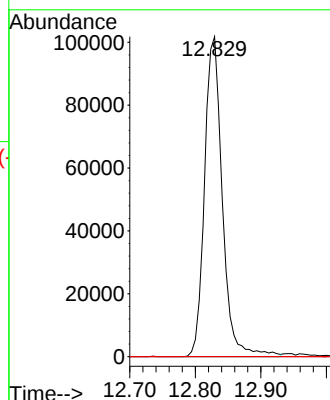
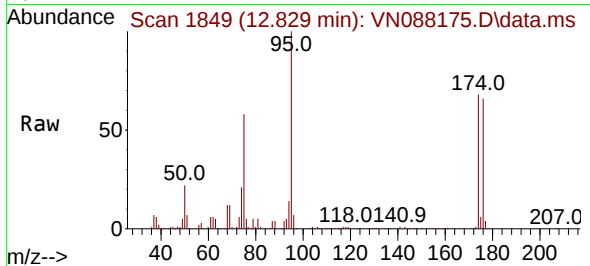




#81
trans-1,4-Dichloro-2-butene
Concen: 69.785 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

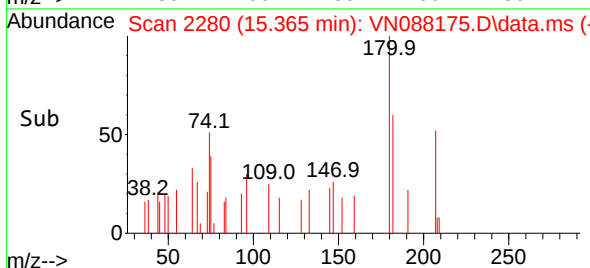
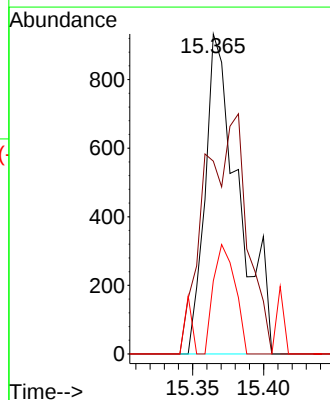
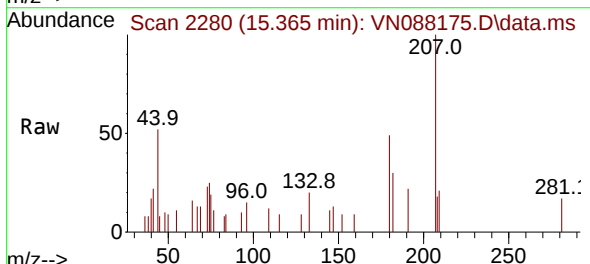
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

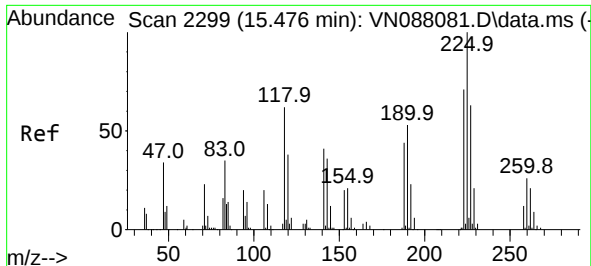
Tgt Ion: 75 Resp: 192352
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.232 ug/l
RT: 15.365 min Scan# 2280
Delta R.T. 0.000 min
Lab File: VN088175.D
Acq: 31 Oct 2025 10:13

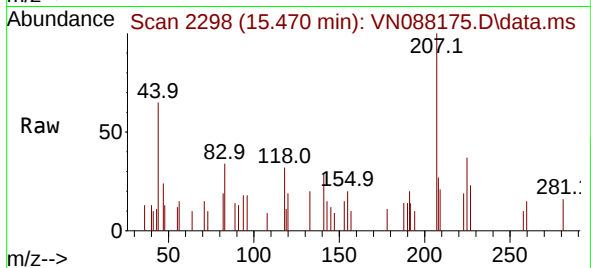
Tgt Ion:180 Resp: 1512
Ion Ratio Lower Upper
180 100
182 96.1 47.6 142.9
145 22.5 16.5 49.5





#94
 Hexachlorobutadiene
 Concen: 0.496 ug/l
 RT: 15.470 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN088175.D
 Acq: 31 Oct 2025 10:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBL01



Tgt Ion:	225	Resp:	1205
Ion	Ratio	Lower	Upper
225	100		
223	76.9	32.0	96.2
227	70.6	32.1	96.5

