

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088149.D
 Acq On : 29 Oct 2025 11:06
 Operator : JC\MD
 Sample : VN1029WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1029WBL01

Quant Time: Oct 30 04:02:25 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)

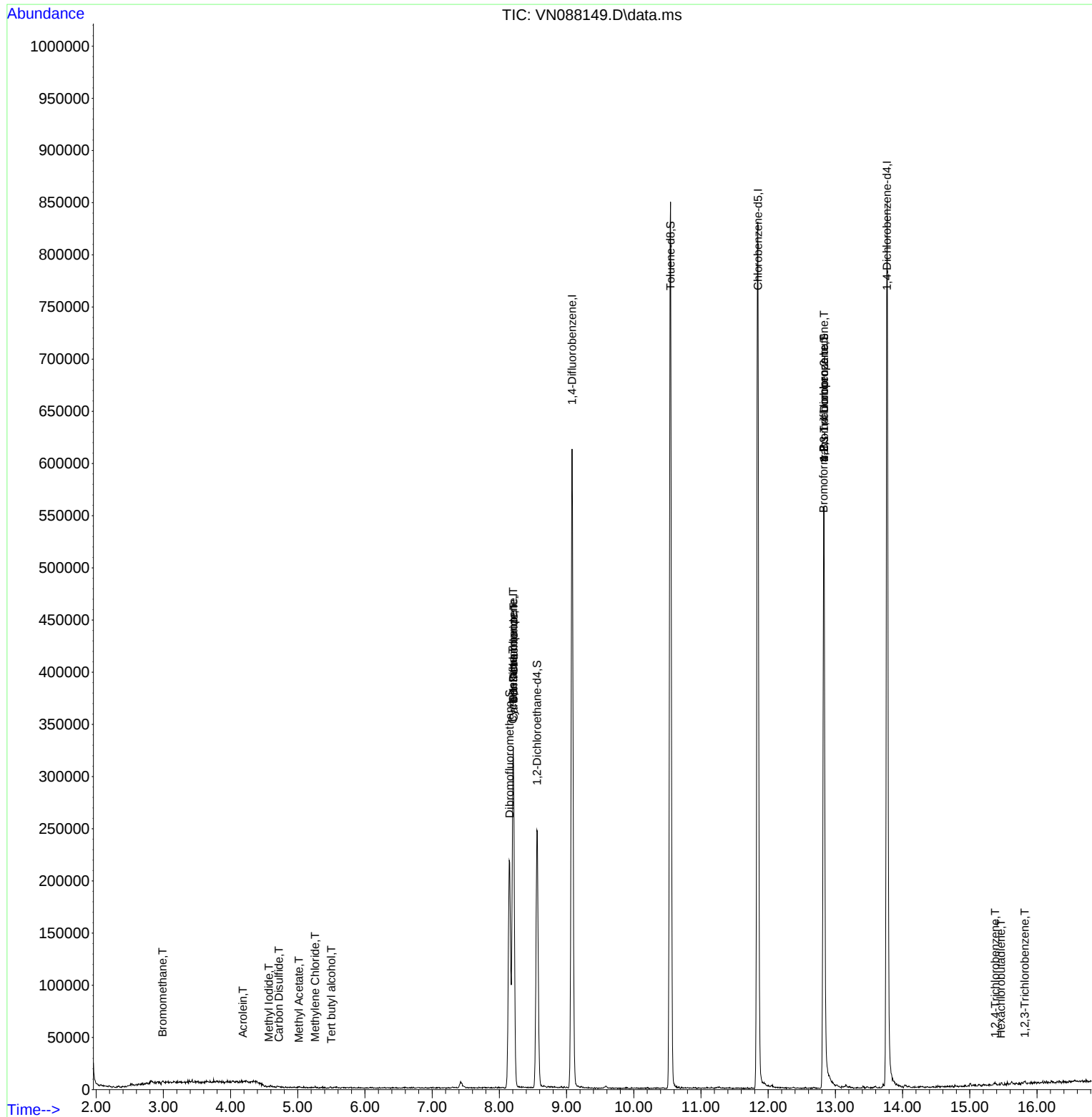
Internal Standards						
1) Pentafluorobenzene	8.206	168	220088	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	494622	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	463889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	222427	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	207466	54.513	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.020%			
35) Dibromofluoromethane	8.153	113	154801	46.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.180%			
50) Toluene-d8	10.547	98	569614	44.488	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.980%			
62) 4-Bromofluorobenzene	12.829	95	217445	48.088	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.180%			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	800	0.420	ug/l	90
10) Methyl Iodide	4.571	142	83	4.240	ug/l #	38
11) Tert butyl alcohol	5.500	59	155	0.236	ug/l #	71
13) Acrolein	4.183	56	735	0.997	ug/l #	14
17) Carbon Disulfide	4.718	76	2257	0.268	ug/l #	74
18) Methyl Acetate	5.018	43	1041	0.266	ug/l #	54
20) Methylene Chloride	5.259	84	57	0.792	ug/l #	59
31) Cyclohexane	8.200	56	7006	1.315	ug/l #	31
36) 1,1-Dichloropropene	8.206	75	22544	4.647	ug/l #	51
38) Carbon Tetrachloride	8.212	117	26139	5.216	ug/l #	14
71) Bromoform	12.823	173	779	0.302	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	121805	23.952	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	121805	66.815	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.376	180	890	0.206	ug/l #	60
94) Hexachlorobutadiene	15.464	225	521	0.325	ug/l #	63
96) 1,2,3-Trichlorobenzene	15.817	180	901	0.218	ug/l	90

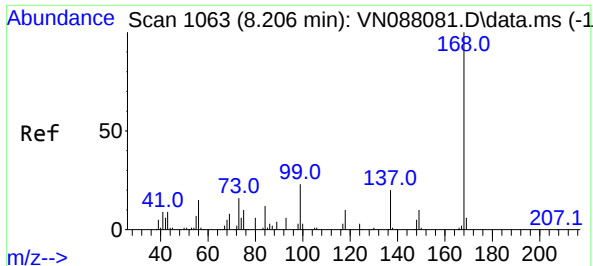
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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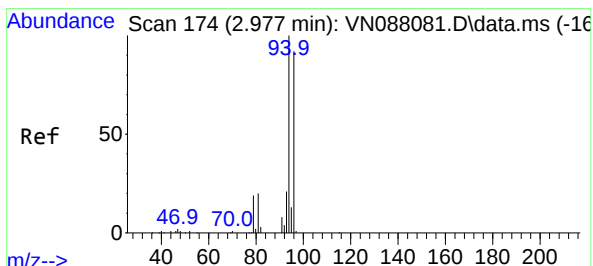
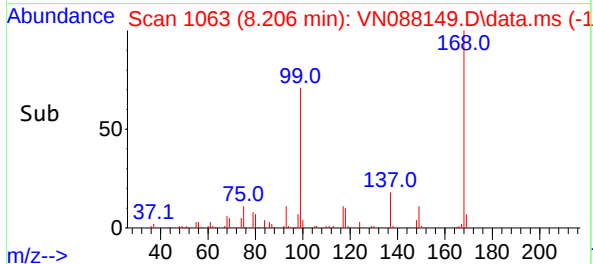
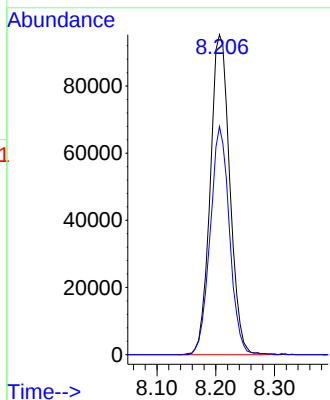
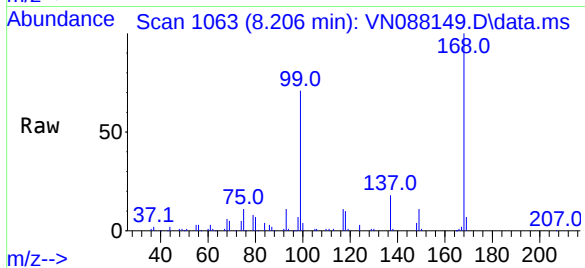




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

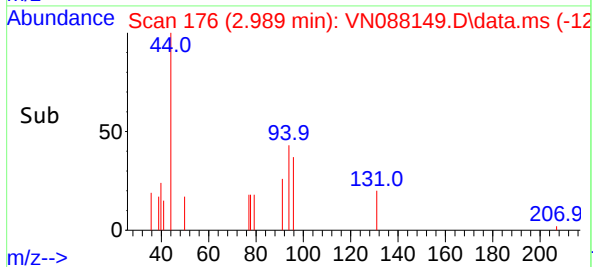
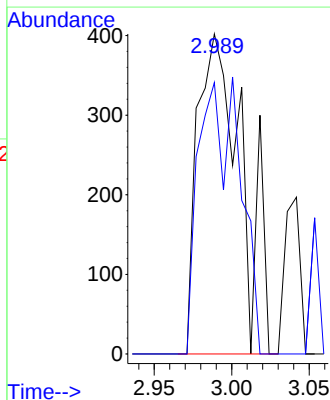
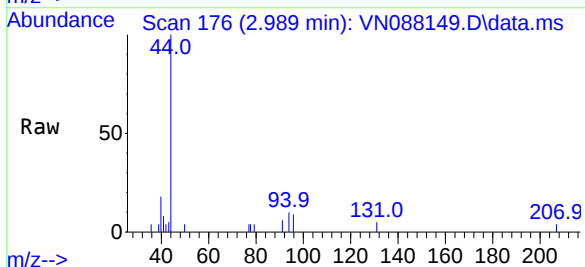
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

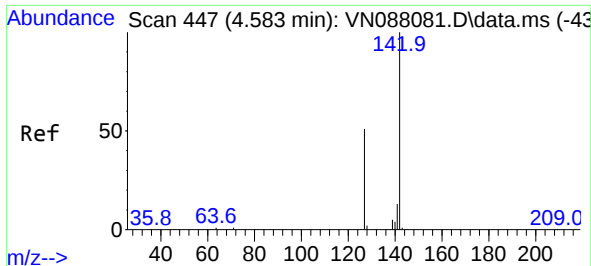
Tgt Ion:168 Resp: 220088
Ion Ratio Lower Upper
168 100
99 71.3 57.2 85.8



#5
Bromomethane
Concen: 0.420 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 94 Resp: 800
Ion Ratio Lower Upper
94 100
96 84.8 75.4 113.2

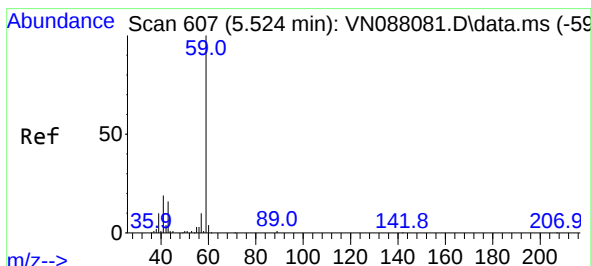
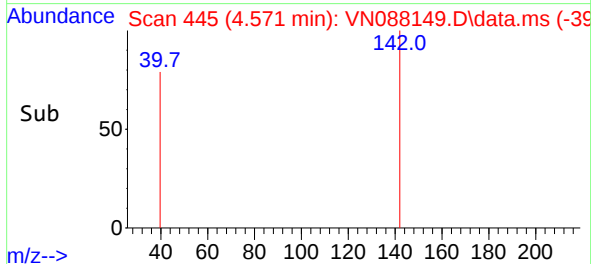
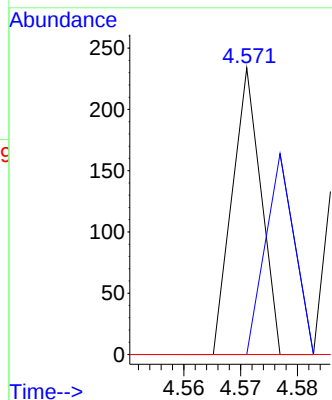
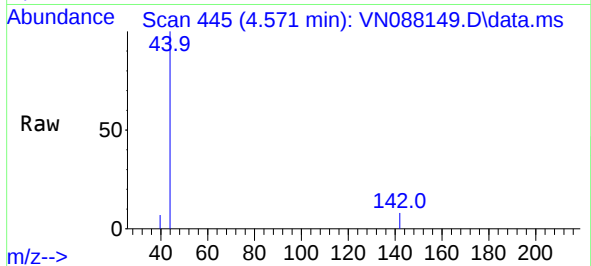




#10
Methyl Iodide
Concen: 4.240 ug/l
RT: 4.571 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

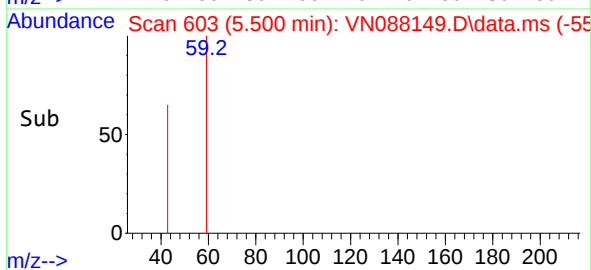
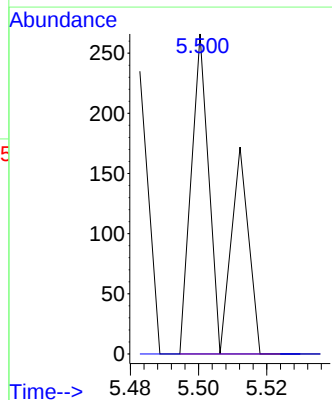
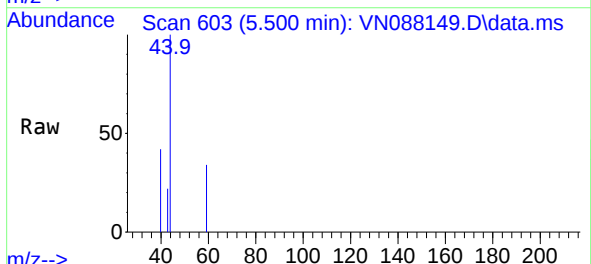
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

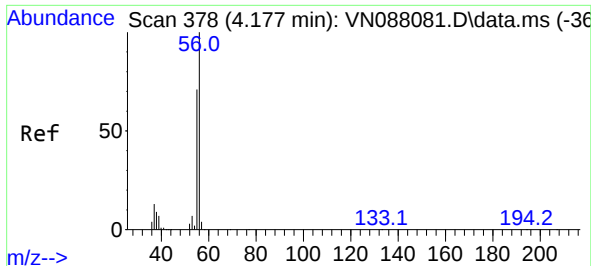
Tgt Ion:142 Resp: 83
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 0.236 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 59 Resp: 155
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

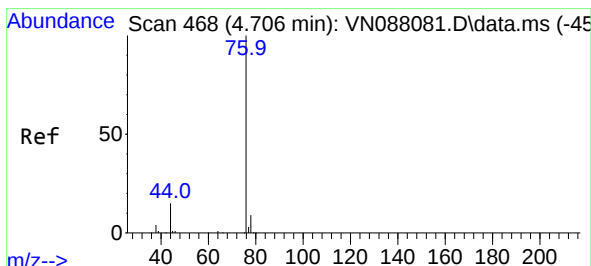
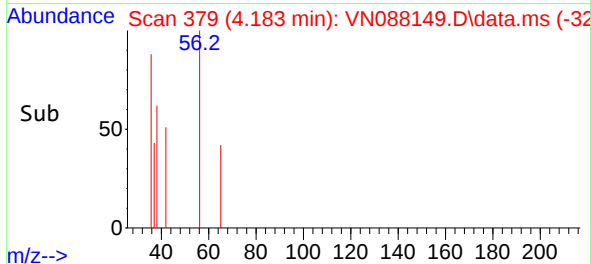
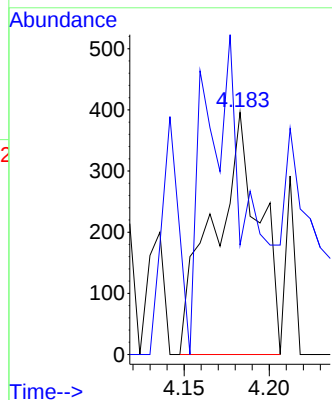
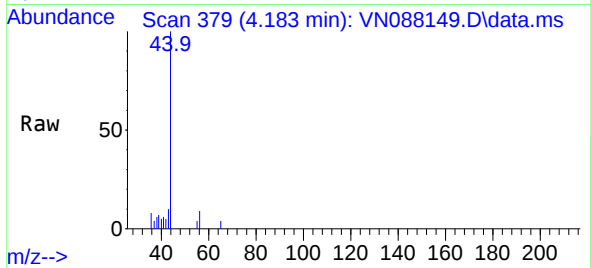




#13
Acrolein
Concen: 0.997 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

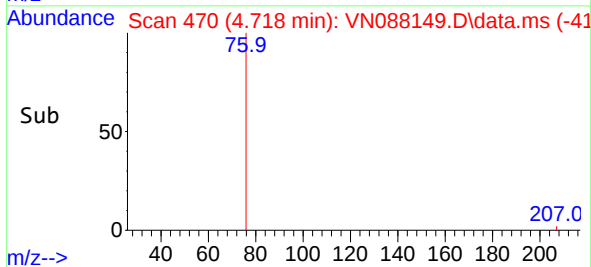
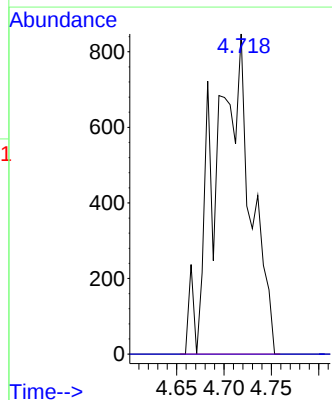
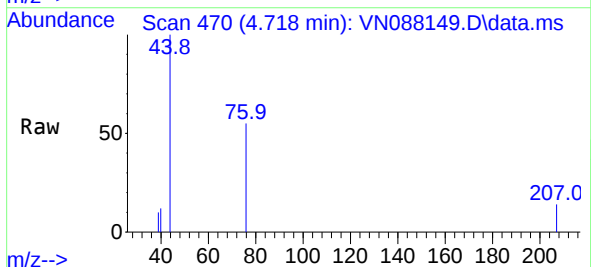
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

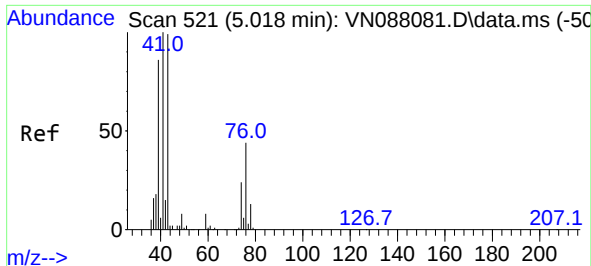
Tgt Ion: 56 Resp: 735
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#



#17
Carbon Disulfide
Concen: 0.268 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.018 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 76 Resp: 2257
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

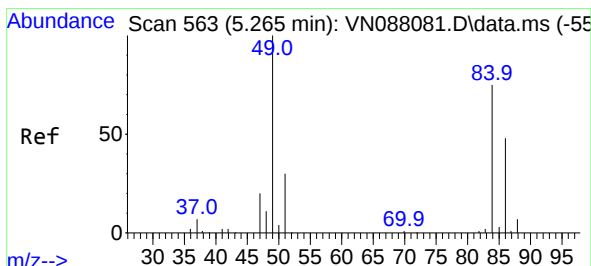
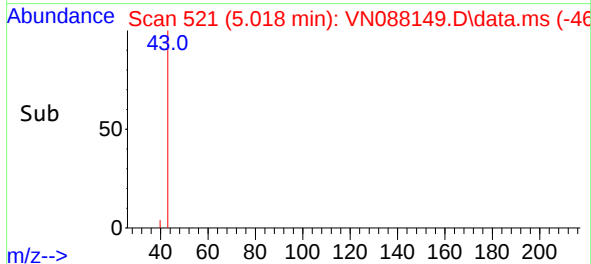
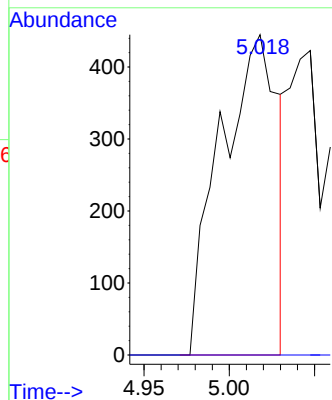
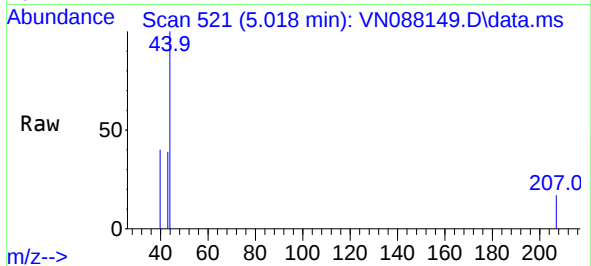




#18
Methyl Acetate
Concen: 0.266 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

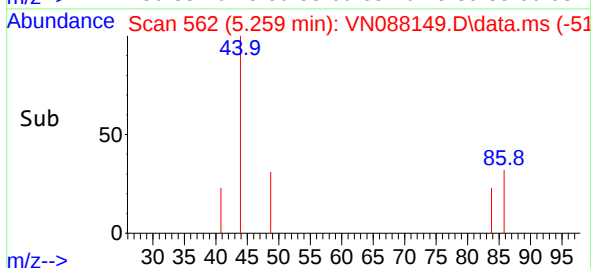
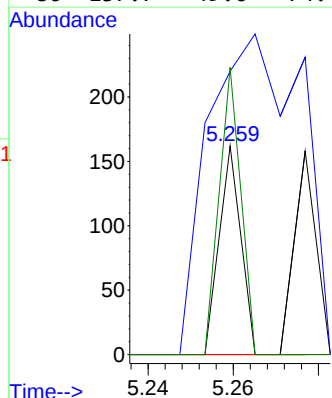
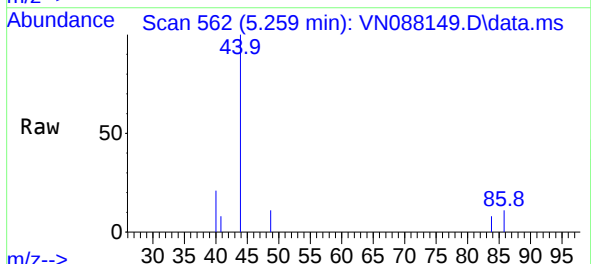
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

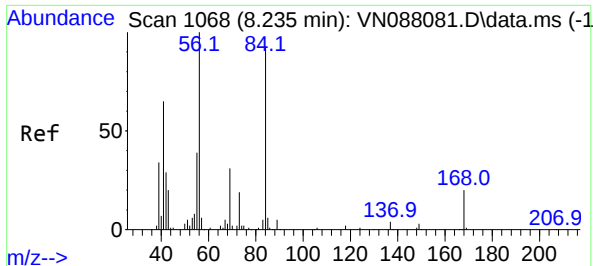
Tgt Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.792 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 84 Resp: 57
Ion Ratio Lower Upper
84 100
49 135.8 103.4 155.2
51 0.0 33.8 50.8#
86 137.7 49.6 74.4#

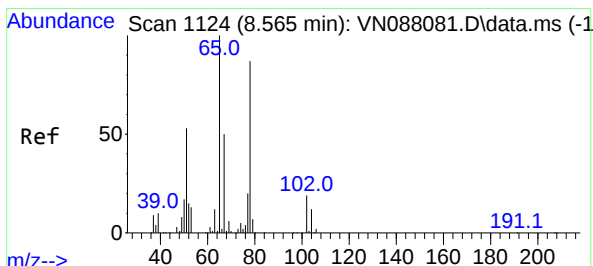
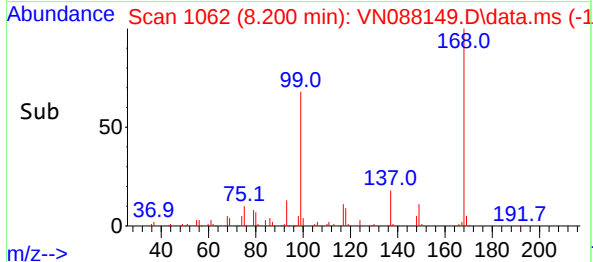
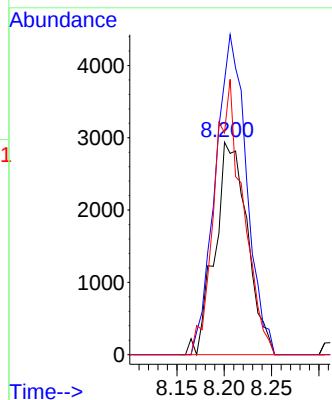
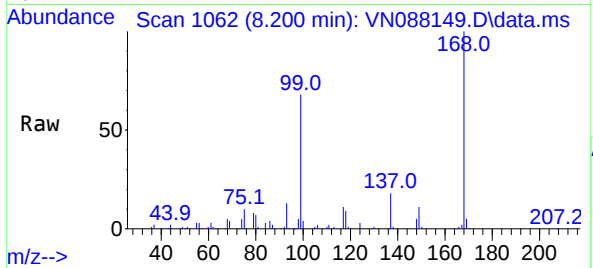




#31
Cyclohexane
Concen: 1.315 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

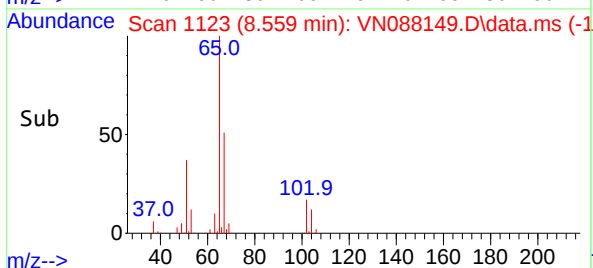
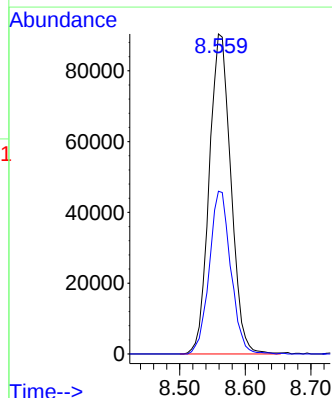
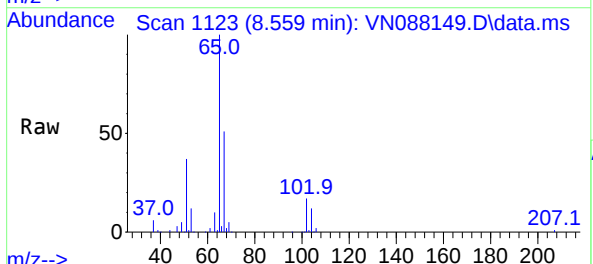
Instrument :
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ClientSampleId :
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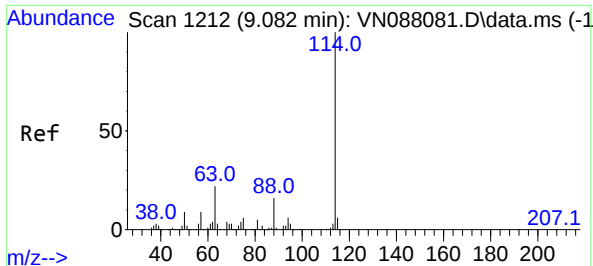
Tgt Ion: 56 Resp: 7006
Ion Ratio Lower Upper
56 100
69 128.9 23.7 35.5#
84 104.5 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 54.513 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 65 Resp: 207466
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: VN088149.D

Acq: 29 Oct 2025 11:06

Instrument :

MSVOA_N

ClientSampleId :

VN1029WBL01

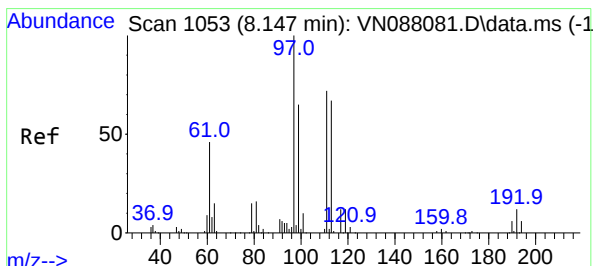
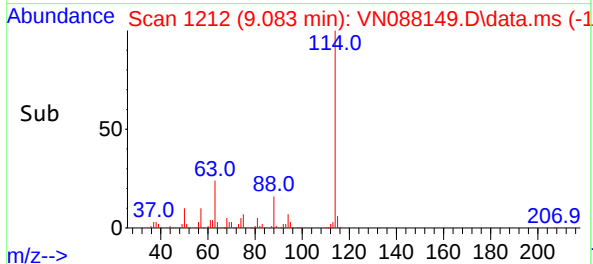
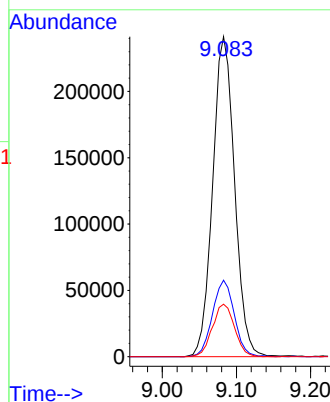
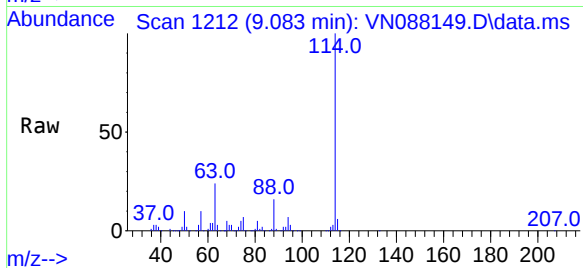
Tgt Ion:114 Resp: 494622

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.2

88 16.4 0.0 33.4



#35

Dibromofluoromethane

Concen: 46.586 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088149.D

Acq: 29 Oct 2025 11:06

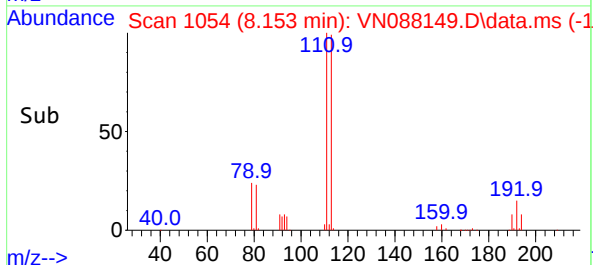
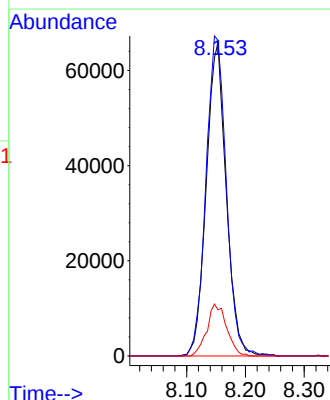
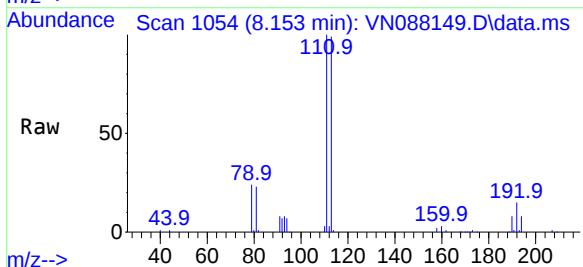
Tgt Ion:113 Resp: 154801

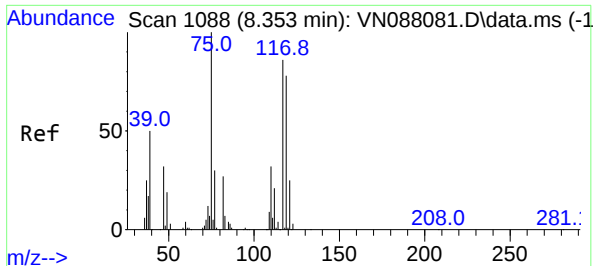
Ion Ratio Lower Upper

113 100

111 104.5 82.8 124.2

192 16.5 12.8 19.2

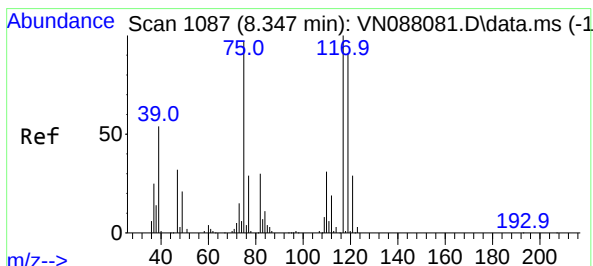
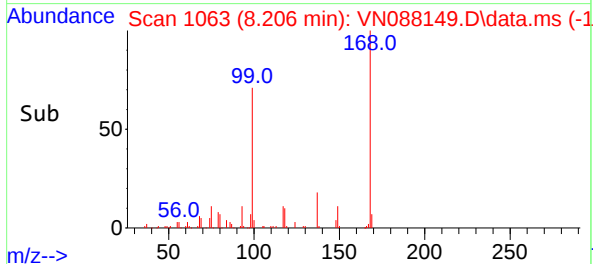
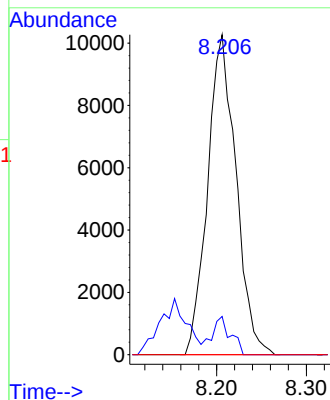
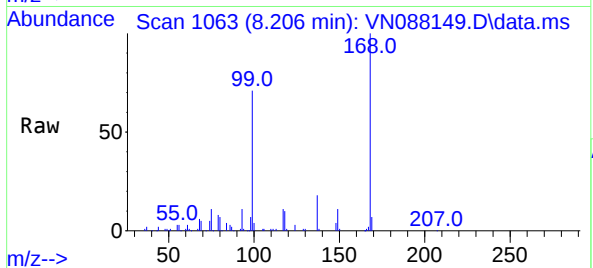




#36
1,1-Dichloropropene
Concen: 4.647 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

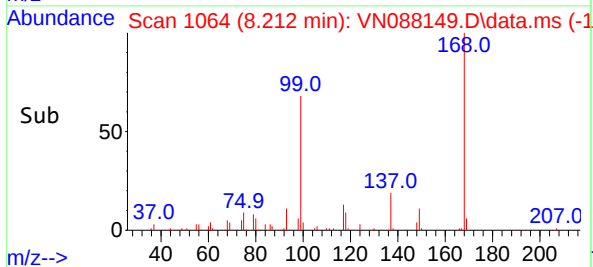
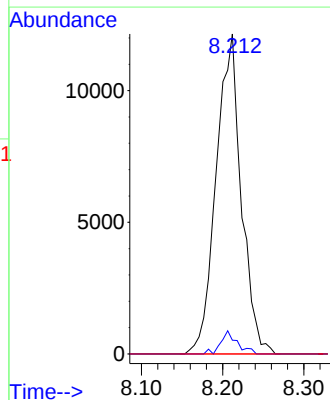
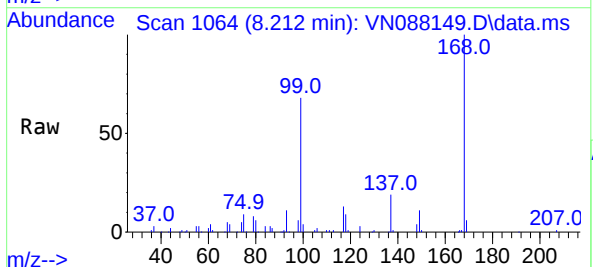
Instrument :
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VN1029WBL01

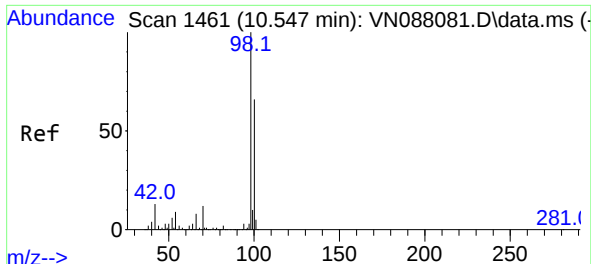
Tgt Ion: 75 Resp: 22544
Ion Ratio Lower Upper
75 100
110 7.8 15.9 47.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.216 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 117 Resp: 26139
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 25.0 37.6#

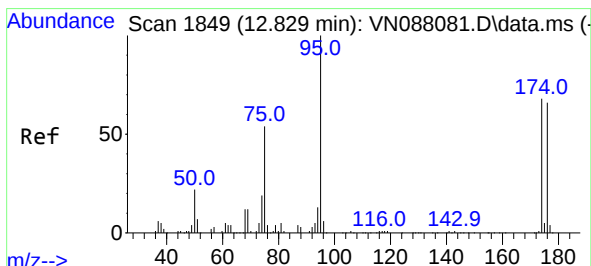
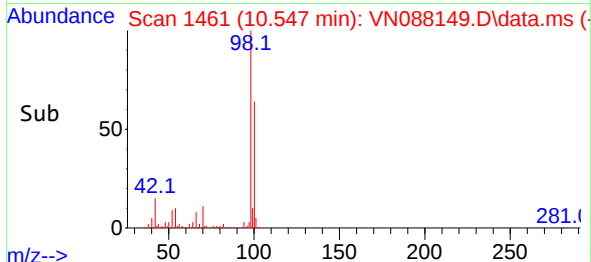
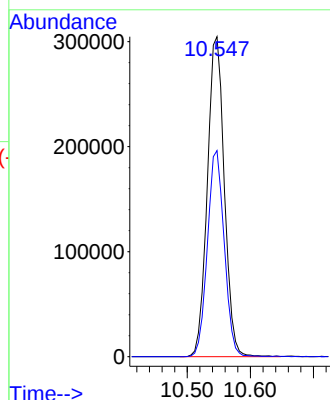
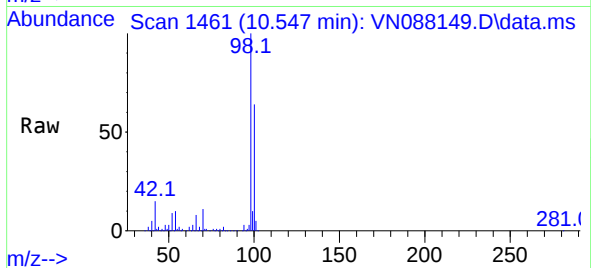




#50
Toluene-d8
Concen: 44.488 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

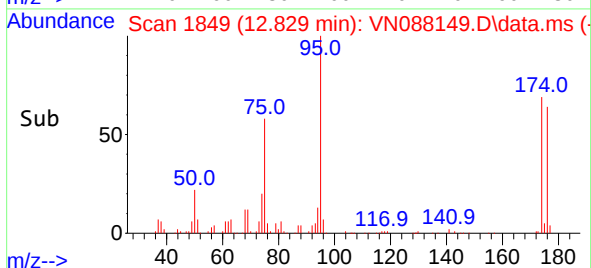
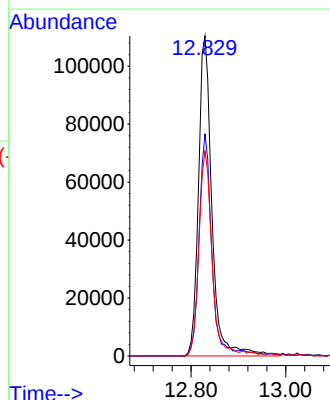
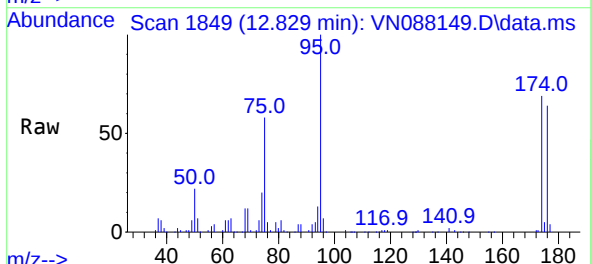
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

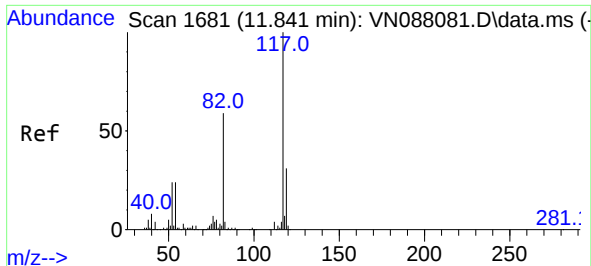
Tgt Ion: 98 Resp: 569614
Ion Ratio Lower Upper
98 100
100 63.7 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 48.088 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 95 Resp: 217445
Ion Ratio Lower Upper
95 100
174 63.9 0.0 138.4
176 61.6 0.0 132.6

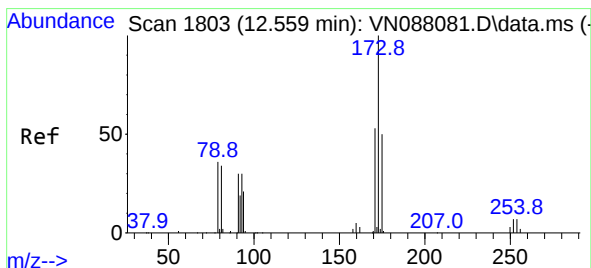
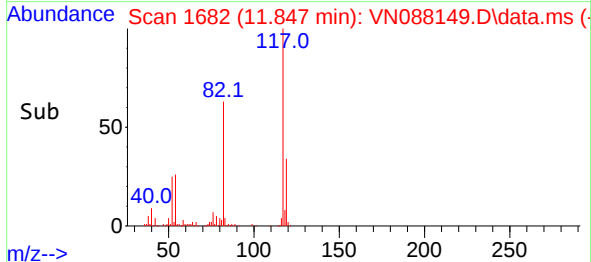
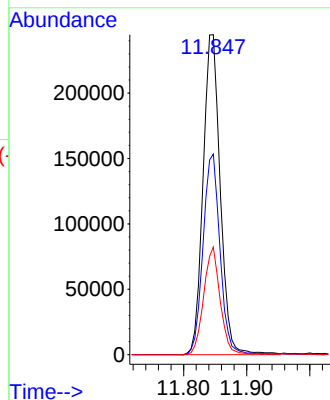
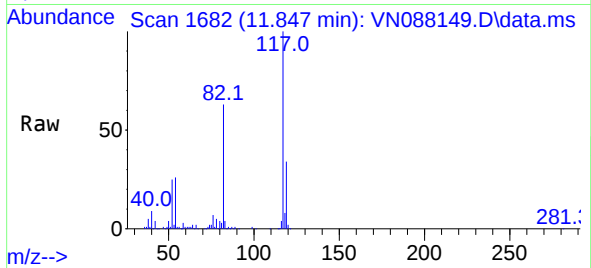




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

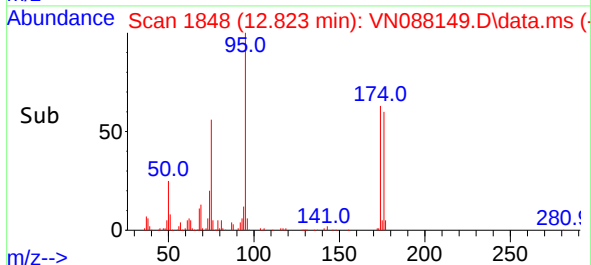
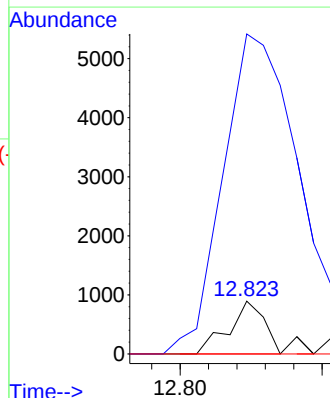
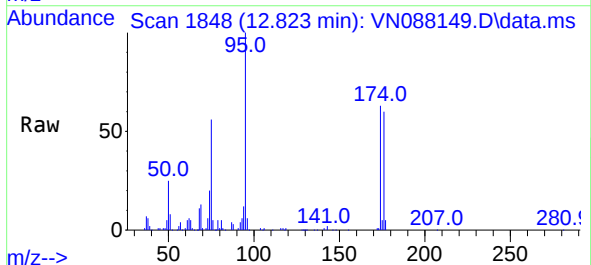
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

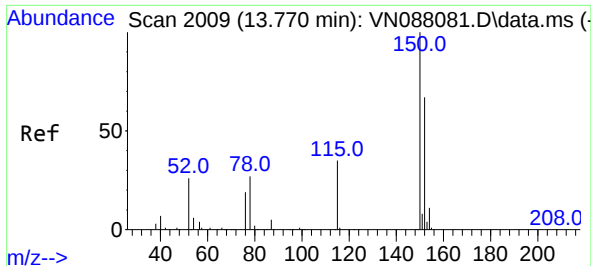
Tgt Ion:117 Resp: 463889
Ion Ratio Lower Upper
117 100
82 62.7 47.4 71.2
119 33.7 24.3 36.5



#71
Bromoform
Concen: 0.302 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion:173 Resp: 779
Ion Ratio Lower Upper
173 100
175 984.6 24.9 74.6#
254 0.0 0.1 0.1#

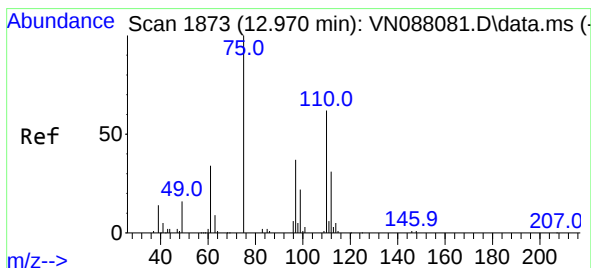
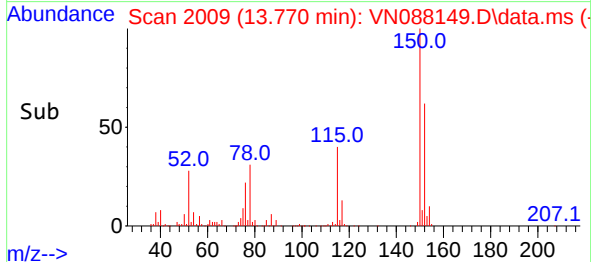
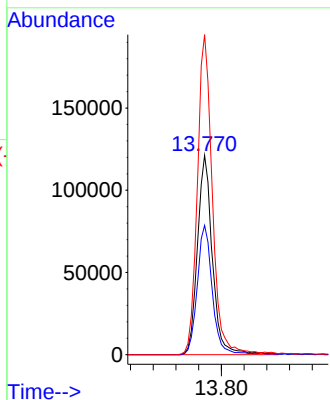
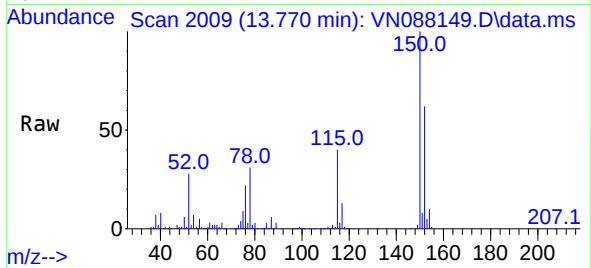




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

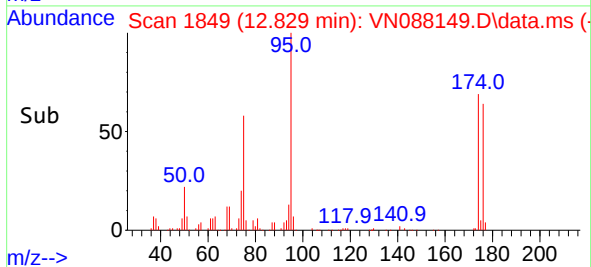
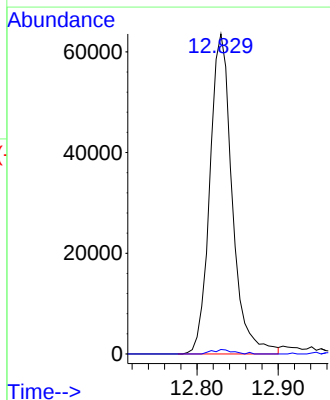
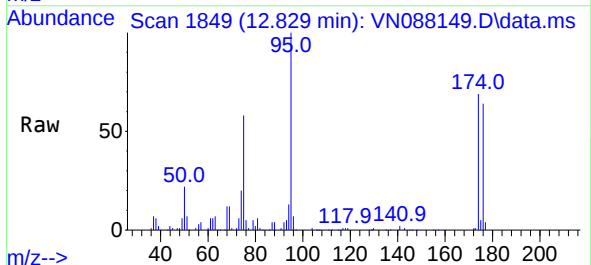
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

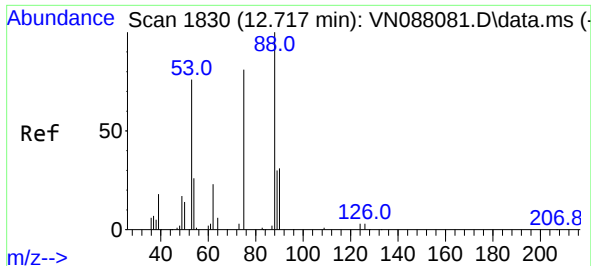
Tgt Ion:152 Resp: 222427
Ion Ratio Lower Upper
152 100
115 64.8 32.3 96.8
150 160.0 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 23.952 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion: 75 Resp: 121805
Ion Ratio Lower Upper
75 100
77 1.2 89.1 267.4#

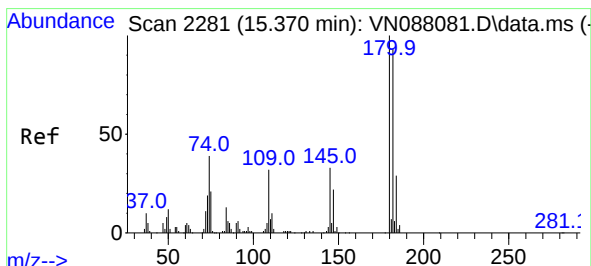
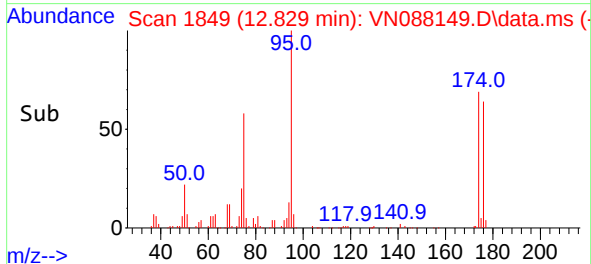
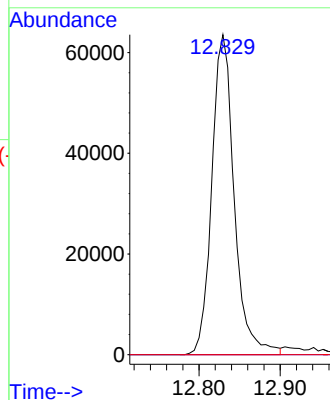
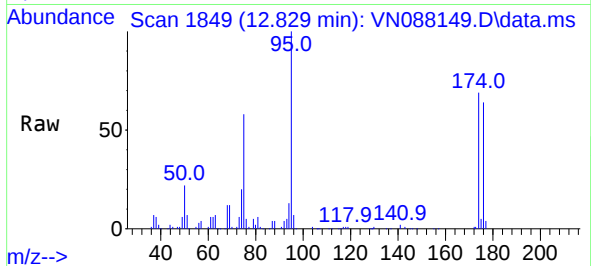




#81
trans-1,4-Dichloro-2-butene
Concen: 66.815 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

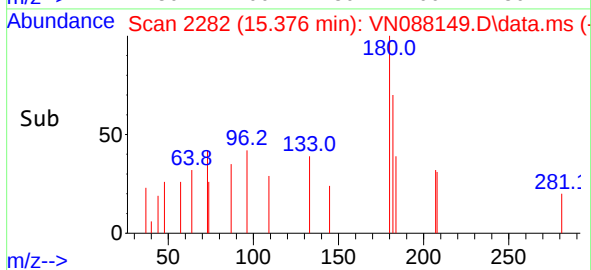
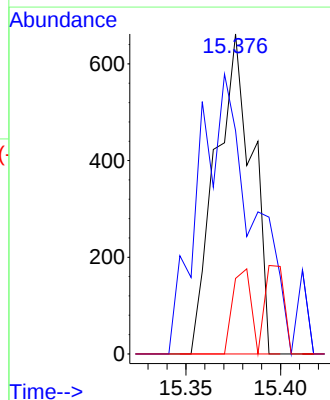
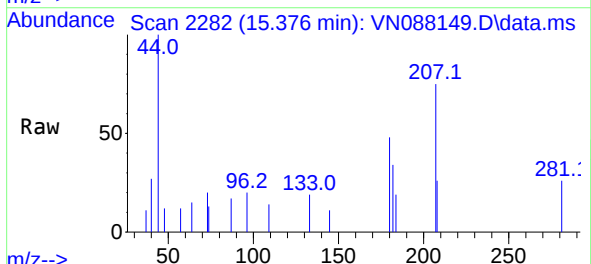
Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

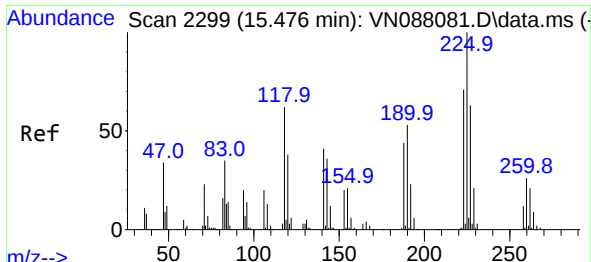
Tgt Ion: 75 Resp: 121805
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.206 ug/l
RT: 15.376 min Scan# 2282
Delta R.T. 0.012 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion:180 Resp: 890
Ion Ratio Lower Upper
180 100
182 135.7 47.6 142.9
145 13.1 16.5 49.5#

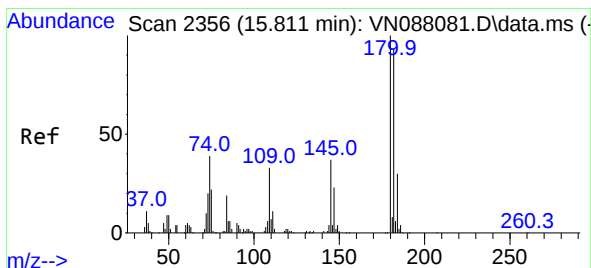
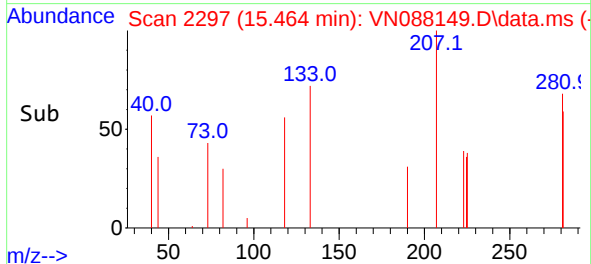
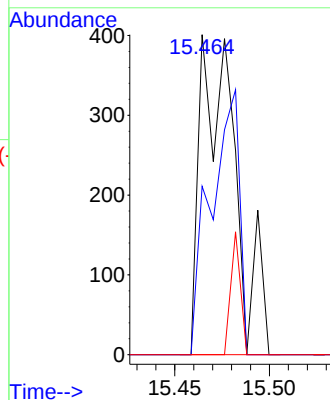
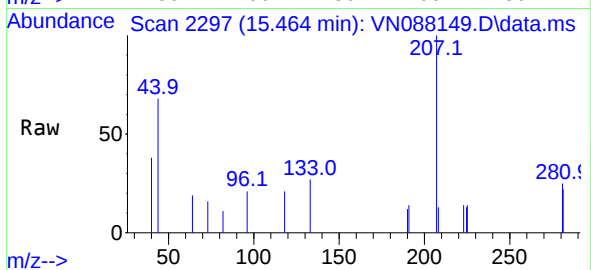




#94
Hexachlorobutadiene
Concen: 0.325 ug/l
RT: 15.464 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Instrument :
MSVOA_N
ClientSampleId :
VN1029WBL01

Tgt Ion:225 Resp: 521
Ion Ratio Lower Upper
225 100
223 67.4 32.0 96.2
227 10.4 32.1 96.5#



#96
1,2,3-Trichlorobenzene
Concen: 0.218 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN088149.D
Acq: 29 Oct 2025 11:06

Tgt Ion:180 Resp: 901
Ion Ratio Lower Upper
180 100
182 87.9 46.8 140.3
145 22.6 17.3 52.0

