

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111825\
 Data File : VN088311.D
 Acq On : 18 Nov 2025 12:16
 Operator : JC\MD
 Sample : Q3659-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Nov 19 03:33:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

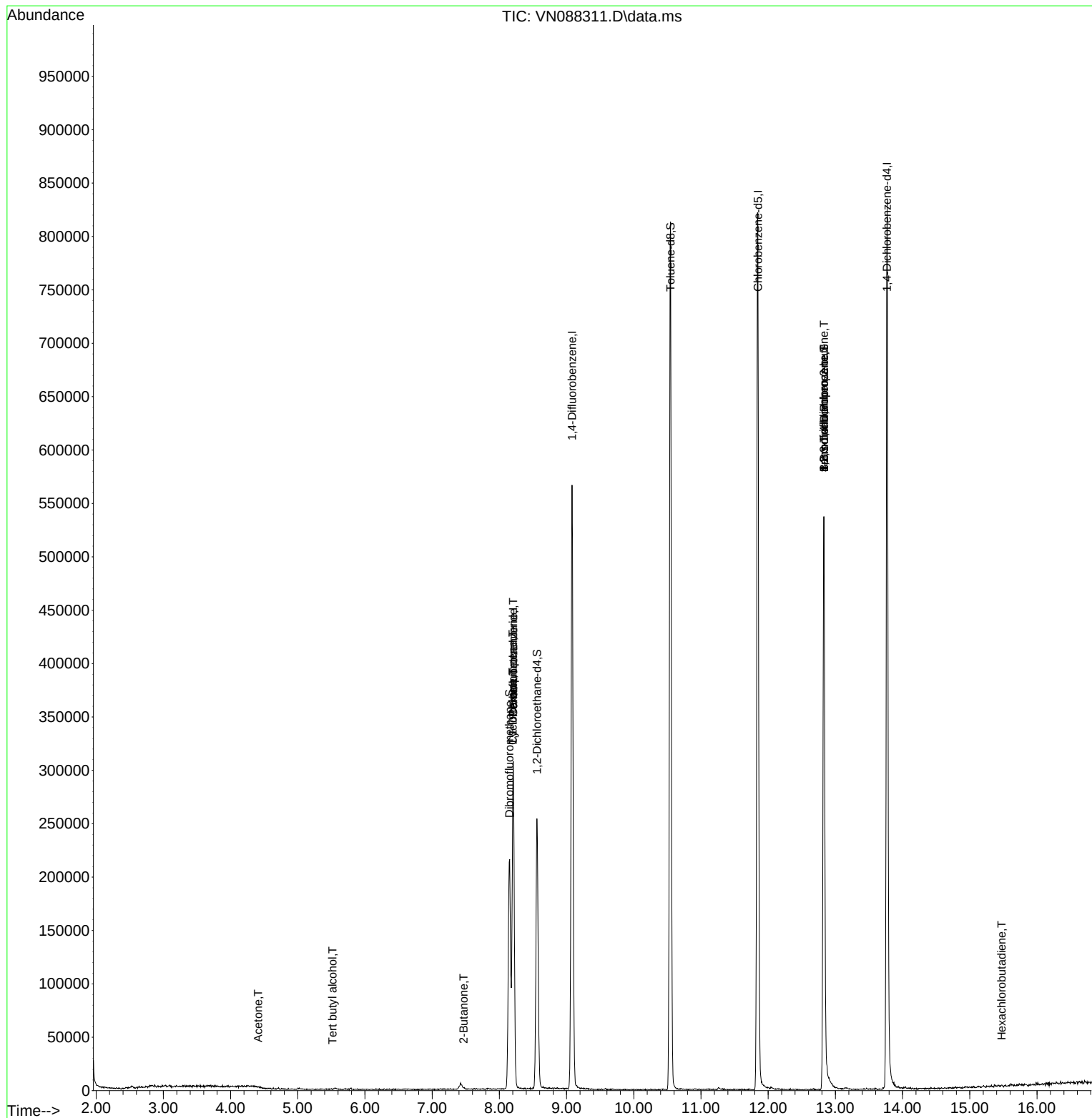
Internal Standards						
1) Pentafluorobenzene	8.206	168	202456	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	464299	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	461775	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	221071	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	204210	58.331	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	116.660%		
35) Dibromofluoromethane	8.147	113	154736	49.608	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.220%		
50) Toluene-d8	10.547	98	541322	45.040	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.080%		
62) 4-Bromofluorobenzene	12.829	95	201215	47.405	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.820%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	136	0.225	ug/l #	71
16) Acetone	4.412	43	486	0.276	ug/l #	47
25) 2-Butanone	7.471	43	513	0.221	ug/l #	50
31) Cyclohexane	8.200	56	6612	1.349	ug/l #	29
36) 1,1-Dichloropropene	8.200	75	20052	4.403	ug/l #	46
38) Carbon Tetrachloride	8.206	117	23855	5.071	ug/l #	15
71) Bromoform	12.829	173	1192	0.465	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	115904	22.931	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	115904	63.968	ug/l #	1
94) Hexachlorobutadiene	15.476	225	370	0.232	ug/l #	48

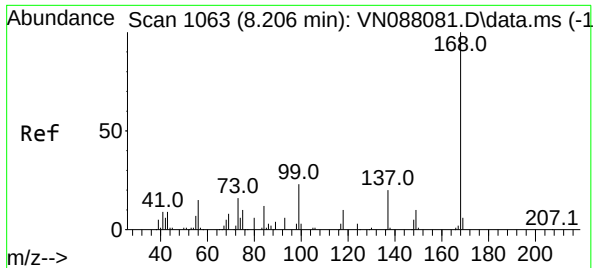
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

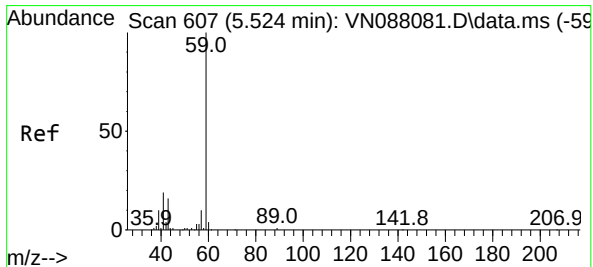
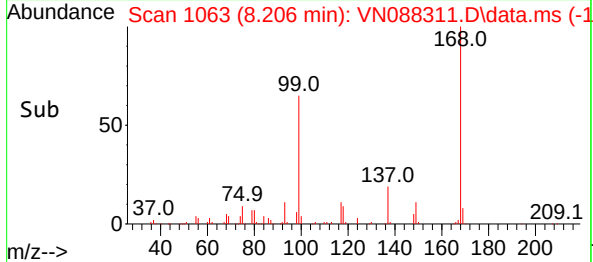
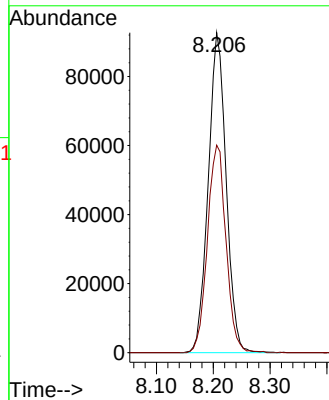
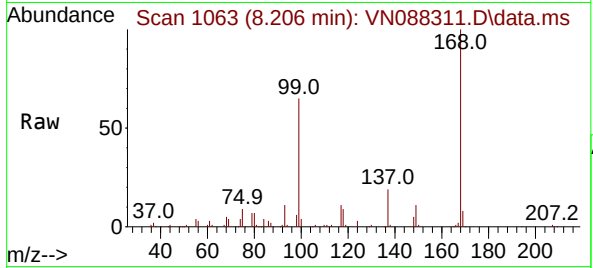




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

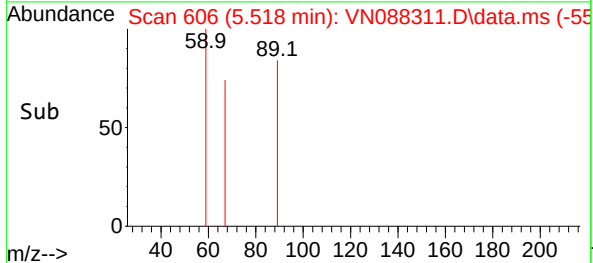
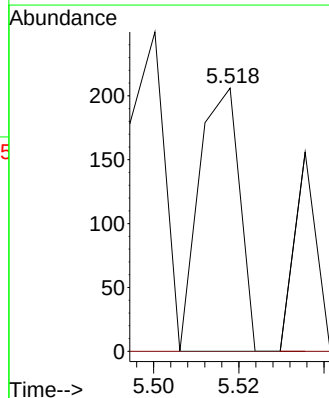
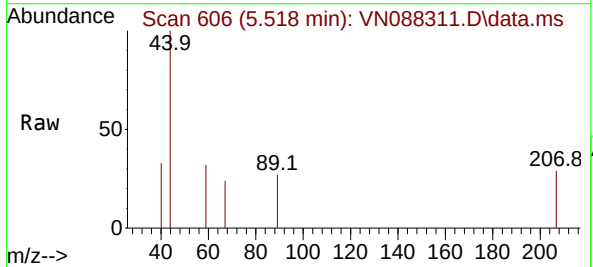
Instrument :
MSVOA_N
ClientSampleId :
TB

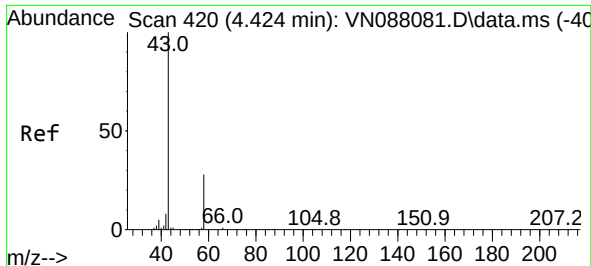
Tgt Ion:168 Resp: 202456
Ion Ratio Lower Upper
168 100
99 64.9 57.2 85.8



#11
Tert butyl alcohol
Concen: 0.225 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

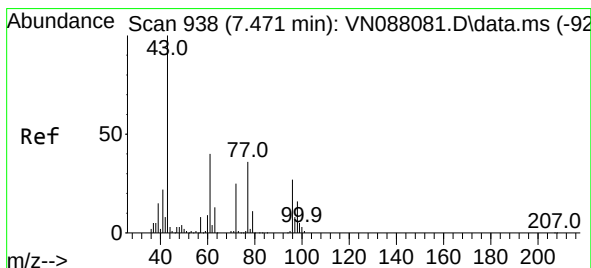
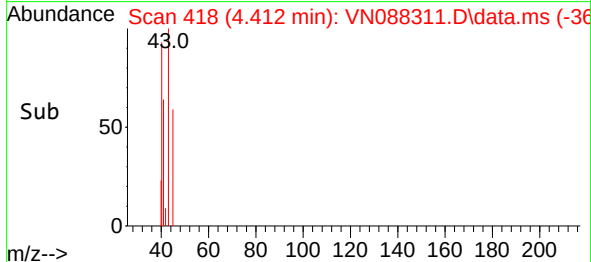
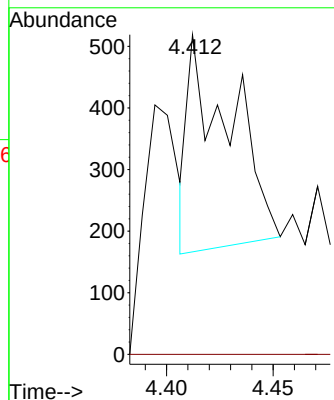
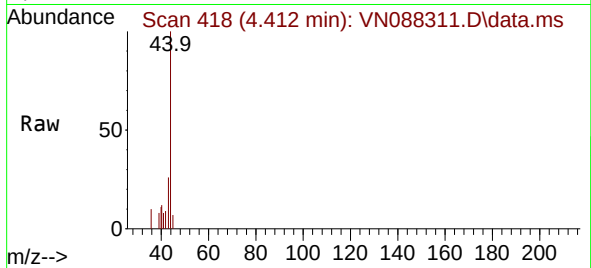




#16
Acetone
Concen: 0.276 ug/l
RT: 4.412 min Scan# 418
Delta R.T. -0.012 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

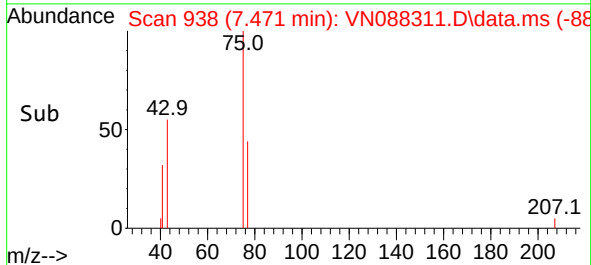
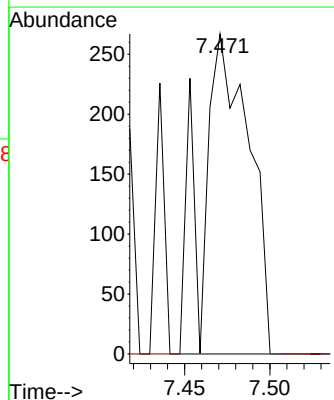
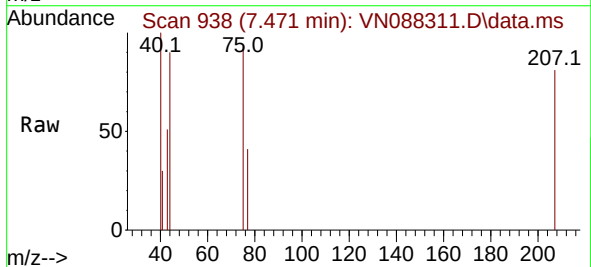
Instrument :
MSVOA_N
ClientSampleId :
TB

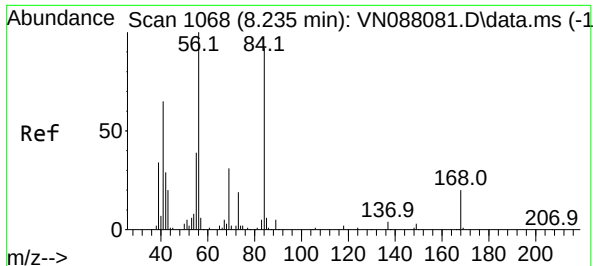
Tgt Ion: 43 Resp: 486
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#



#25
2-Butanone
Concen: 0.221 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 513
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

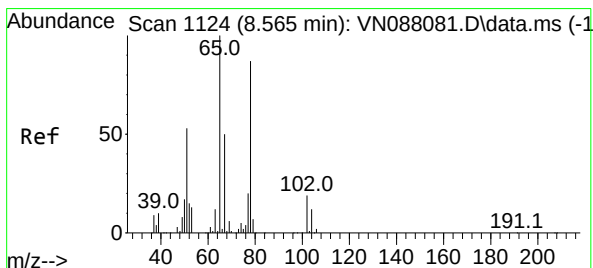
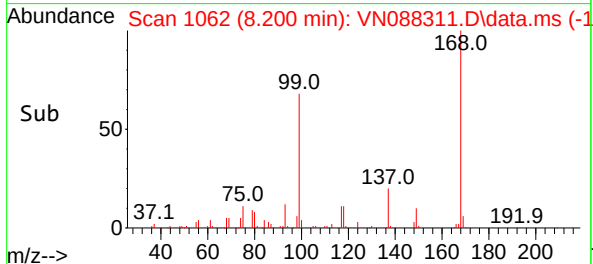
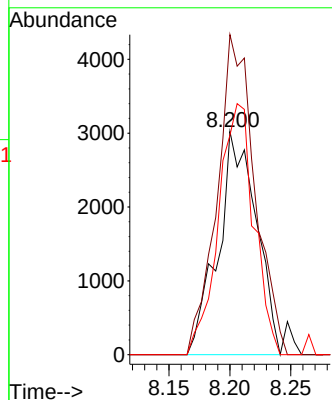
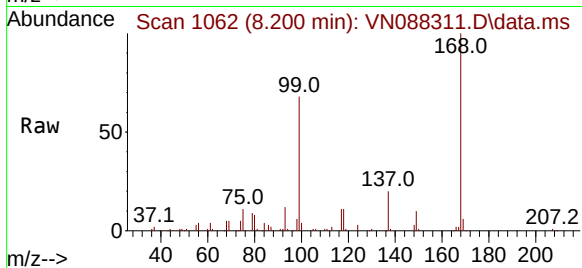




#31
Cyclohexane
Concen: 1.349 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

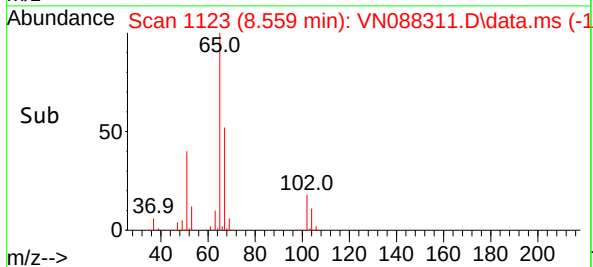
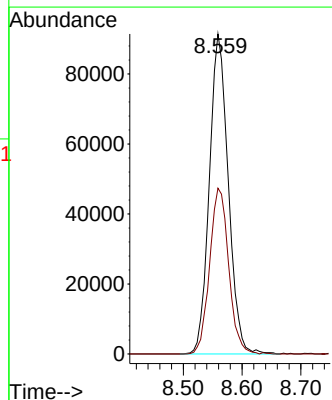
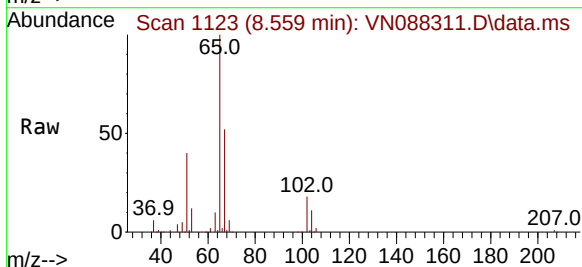
Instrument :
MSVOA_N
ClientSampleId :
TB

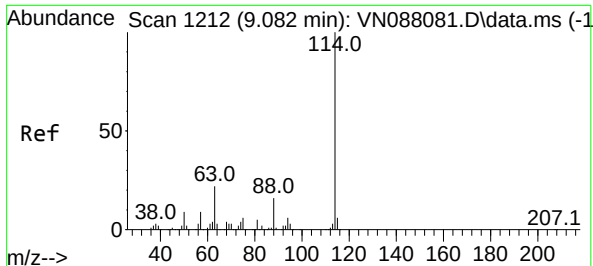
Tgt Ion: 56 Resp: 6612
Ion Ratio Lower Upper
56 100
69 143.4 23.7 35.5#
84 98.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 58.331 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 65 Resp: 204210
Ion Ratio Lower Upper
65 100
67 52.1 0.0 100.0

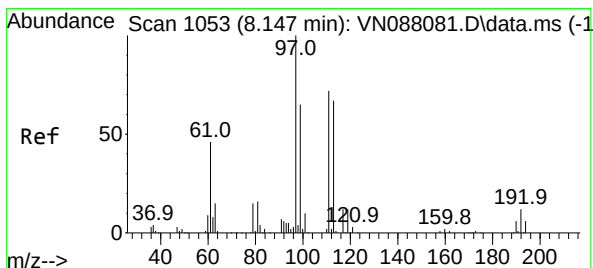
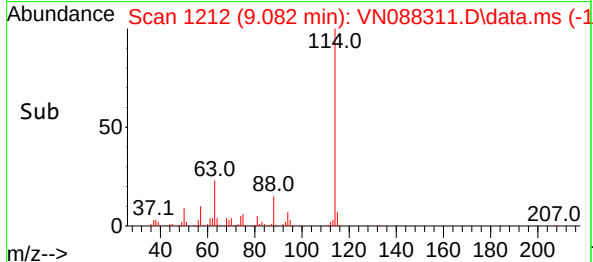
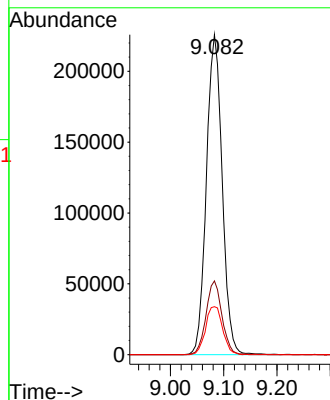
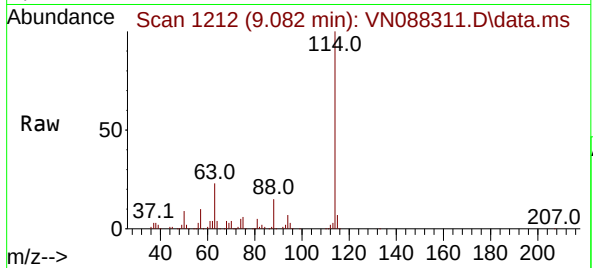




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

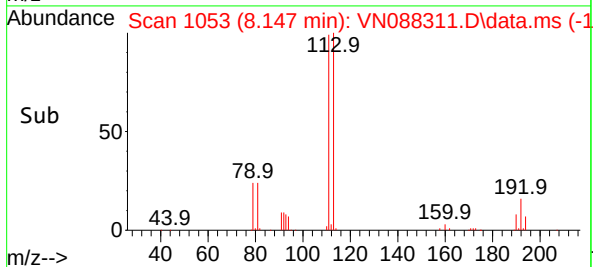
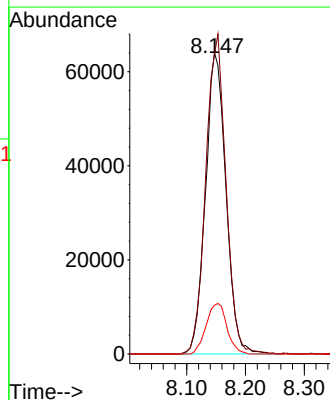
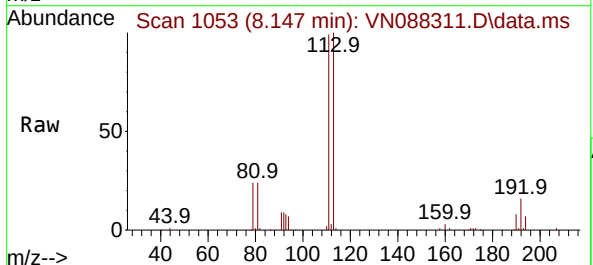
Instrument :
MSVOA_N
ClientSampleId :
TB

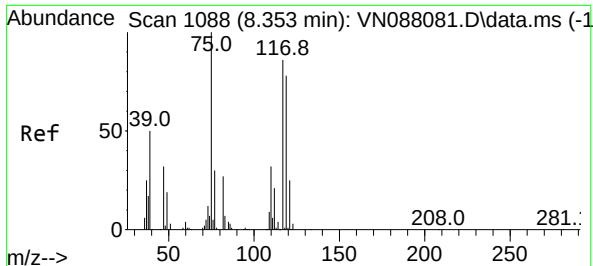
Tgt Ion:114 Resp: 464299
Ion Ratio Lower Upper
114 100
63 23.0 0.0 45.2
88 15.0 0.0 33.4



#35
Dibromofluoromethane
Concen: 49.608 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion:113 Resp: 154736
Ion Ratio Lower Upper
113 100
111 104.5 82.8 124.2
192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.403 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088311.D

Acq: 18 Nov 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

TB

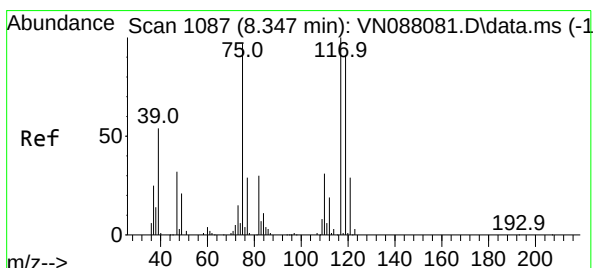
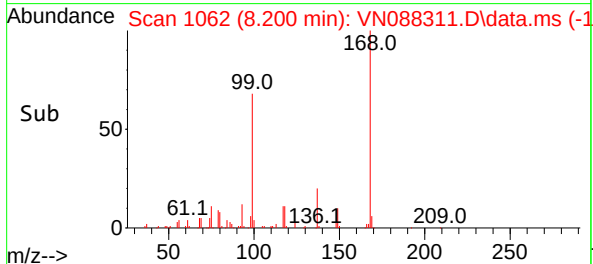
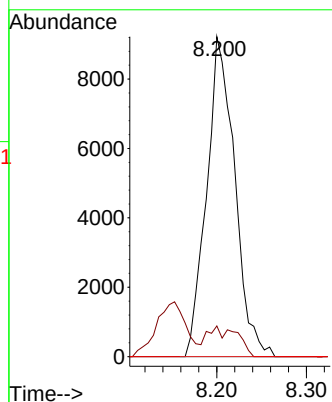
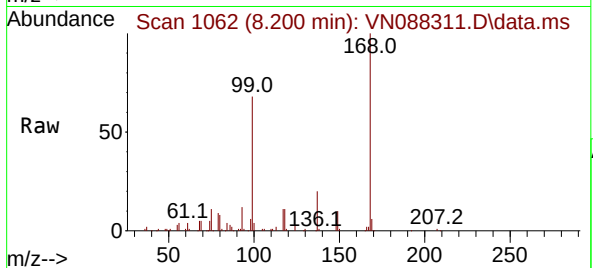
Tgt Ion: 75 Resp: 20052

Ion Ratio Lower Upper

75 100

110 2.5 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.071 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088311.D

Acq: 18 Nov 2025 12:16

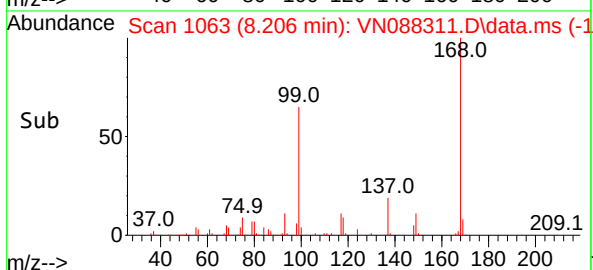
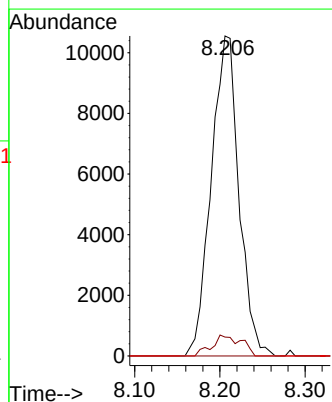
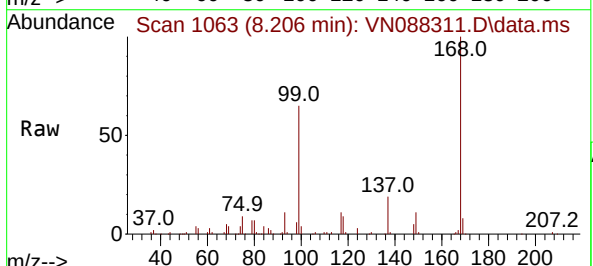
Tgt Ion: 117 Resp: 23855

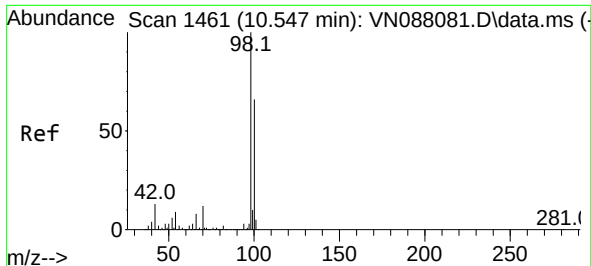
Ion Ratio Lower Upper

117 100

119 5.9 79.0 118.6#

121 0.0 25.0 37.6#

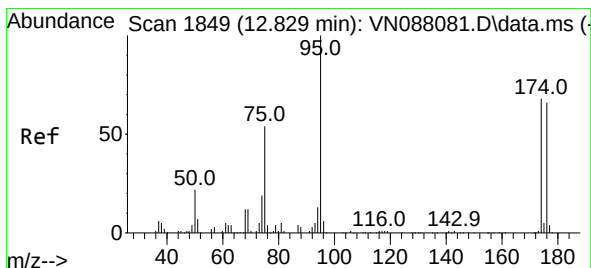
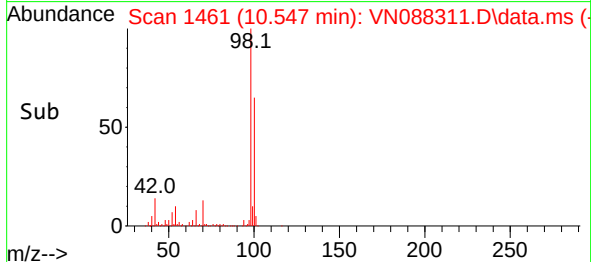
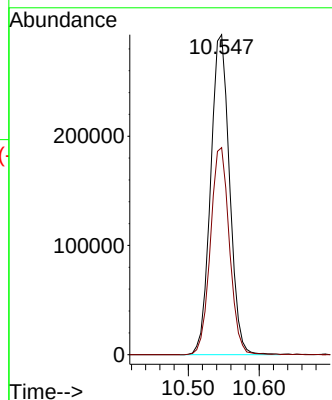
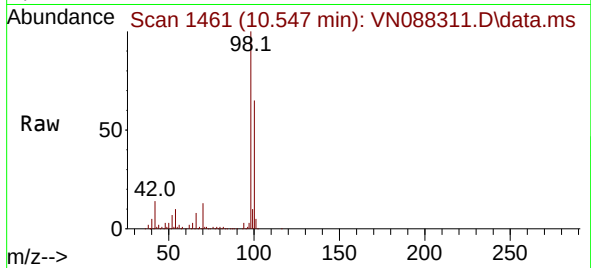




#50
Toluene-d8
Concen: 45.040 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

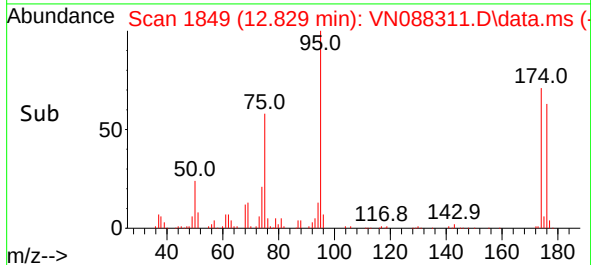
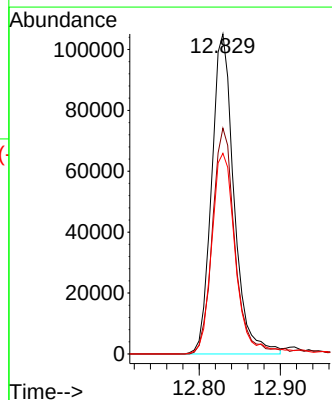
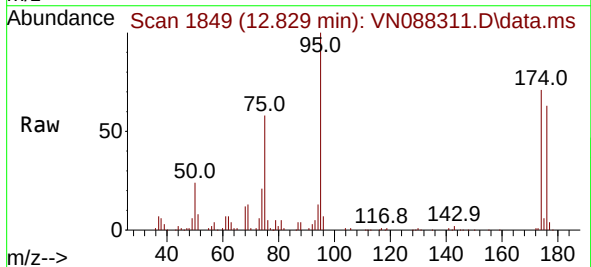
Instrument :
MSVOA_N
ClientSampleId :
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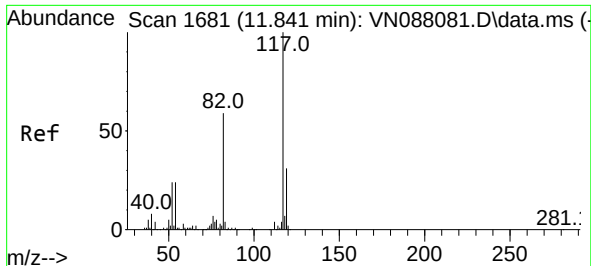
Tgt Ion: 98 Resp: 541322
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 47.405 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 95 Resp: 201215
Ion Ratio Lower Upper
95 100
174 71.2 0.0 138.4
176 67.2 0.0 132.6

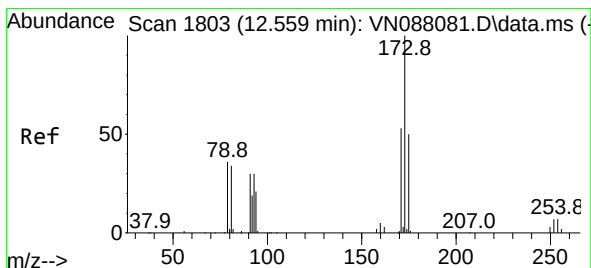
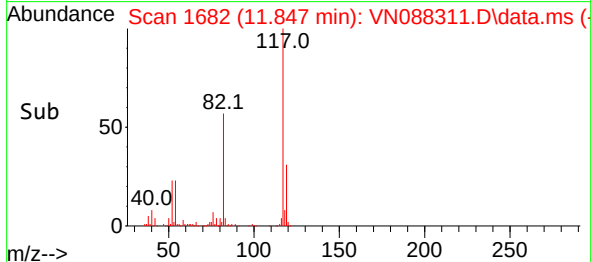
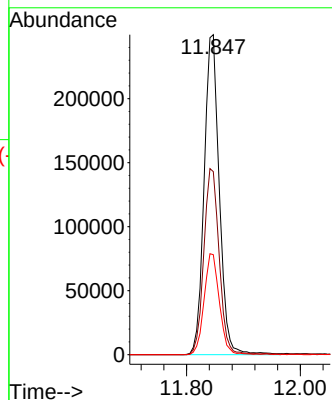
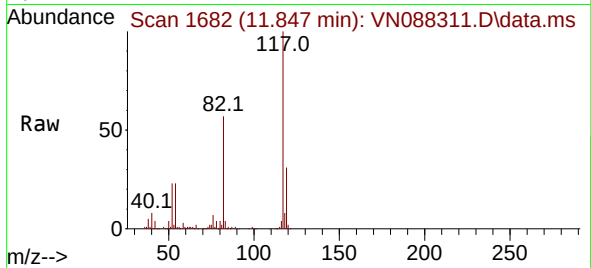




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

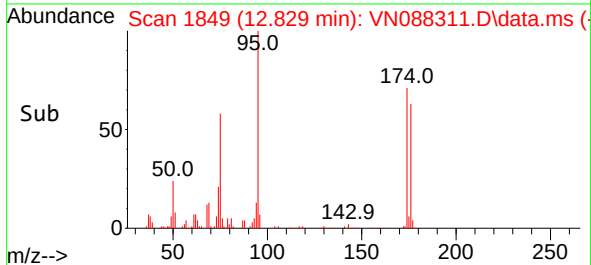
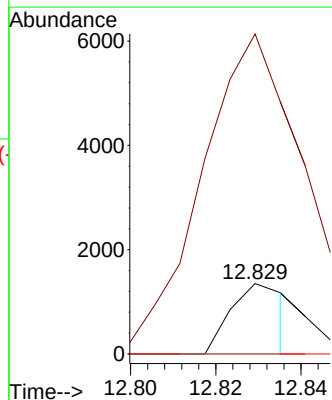
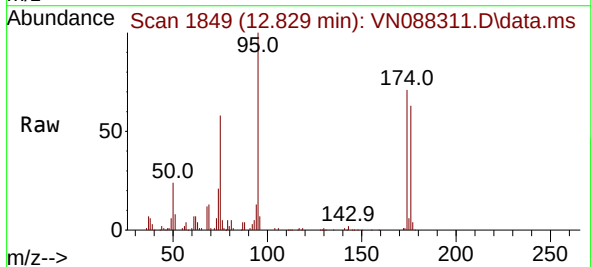
Instrument :
MSVOA_N
ClientSampleId :
TB

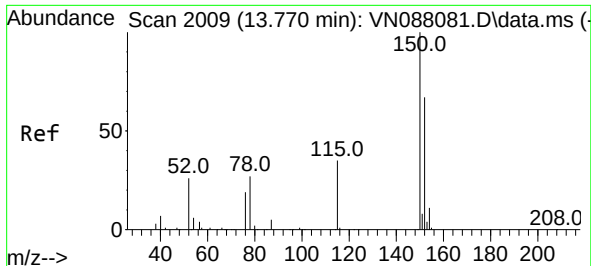
Tgt Ion:117 Resp: 461775
Ion Ratio Lower Upper
117 100
82 57.2 47.4 71.2
119 31.2 24.3 36.5



#71
Bromoform
Concen: 0.465 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion:173 Resp: 1192
Ion Ratio Lower Upper
173 100
175 677.9 24.9 74.6#
254 0.0 0.1 0.1#

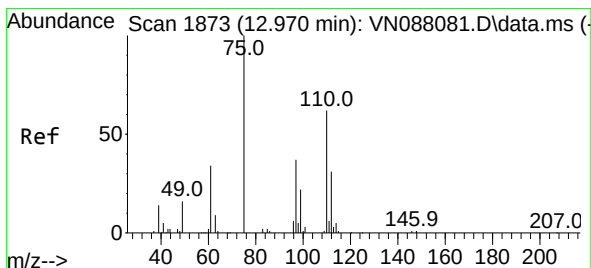
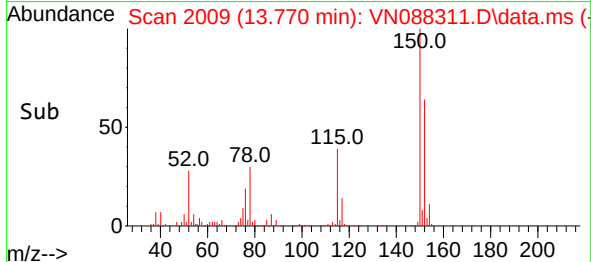
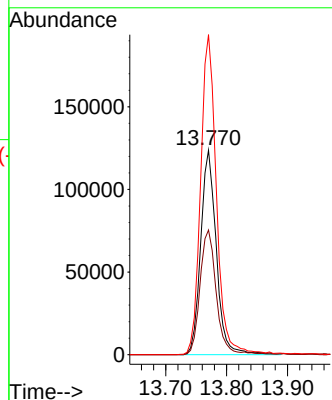
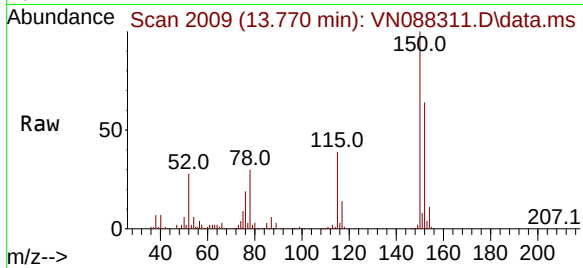




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088311.D
 Acq: 18 Nov 2025 12:16

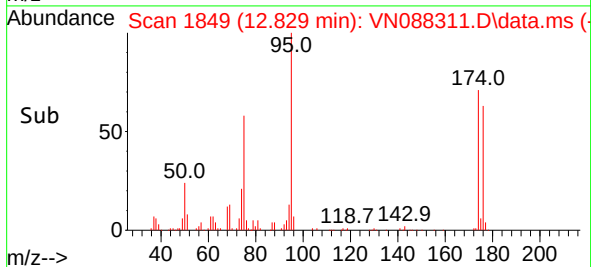
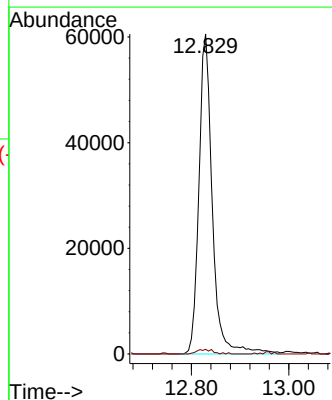
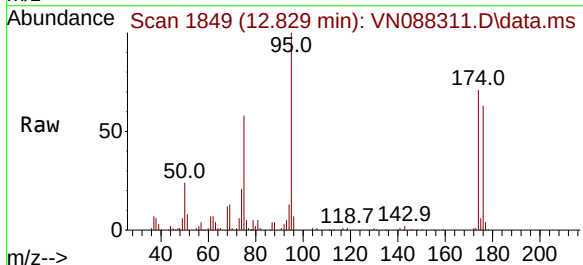
Instrument :
 MSVOA_N
 ClientSampleId :
 TB

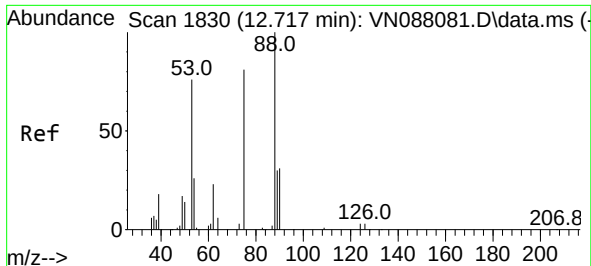
Tgt Ion:152 Resp: 221071
 Ion Ratio Lower Upper
 152 100
 115 63.4 32.3 96.8
 150 158.5 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 22.931 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088311.D
 Acq: 18 Nov 2025 12:16

Tgt Ion: 75 Resp: 115904
 Ion Ratio Lower Upper
 75 100
 77 0.8 89.1 267.4#

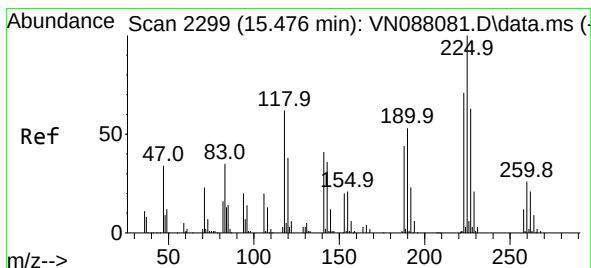
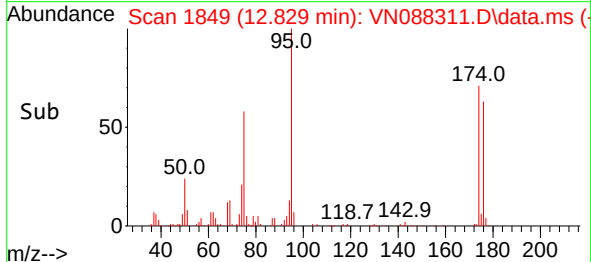
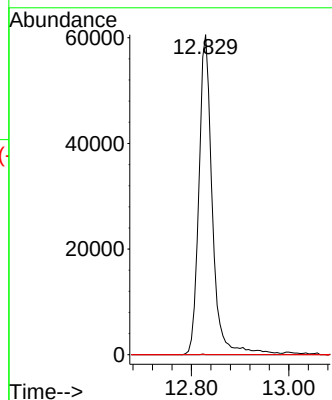
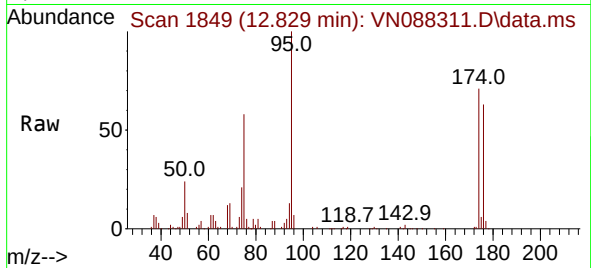




#81
trans-1,4-Dichloro-2-butene
Concen: 63.968 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion: 75 Resp: 115904
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#94
Hexachlorobutadiene
Concen: 0.232 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088311.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 225 Resp: 370
Ion Ratio Lower Upper
225 100
223 46.8 32.0 96.2
227 0.0 32.1 96.5#

