

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088493.D
 Acq On : 10 Dec 2025 12:44
 Operator : JC\MD
 Sample : Q3813-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:06:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

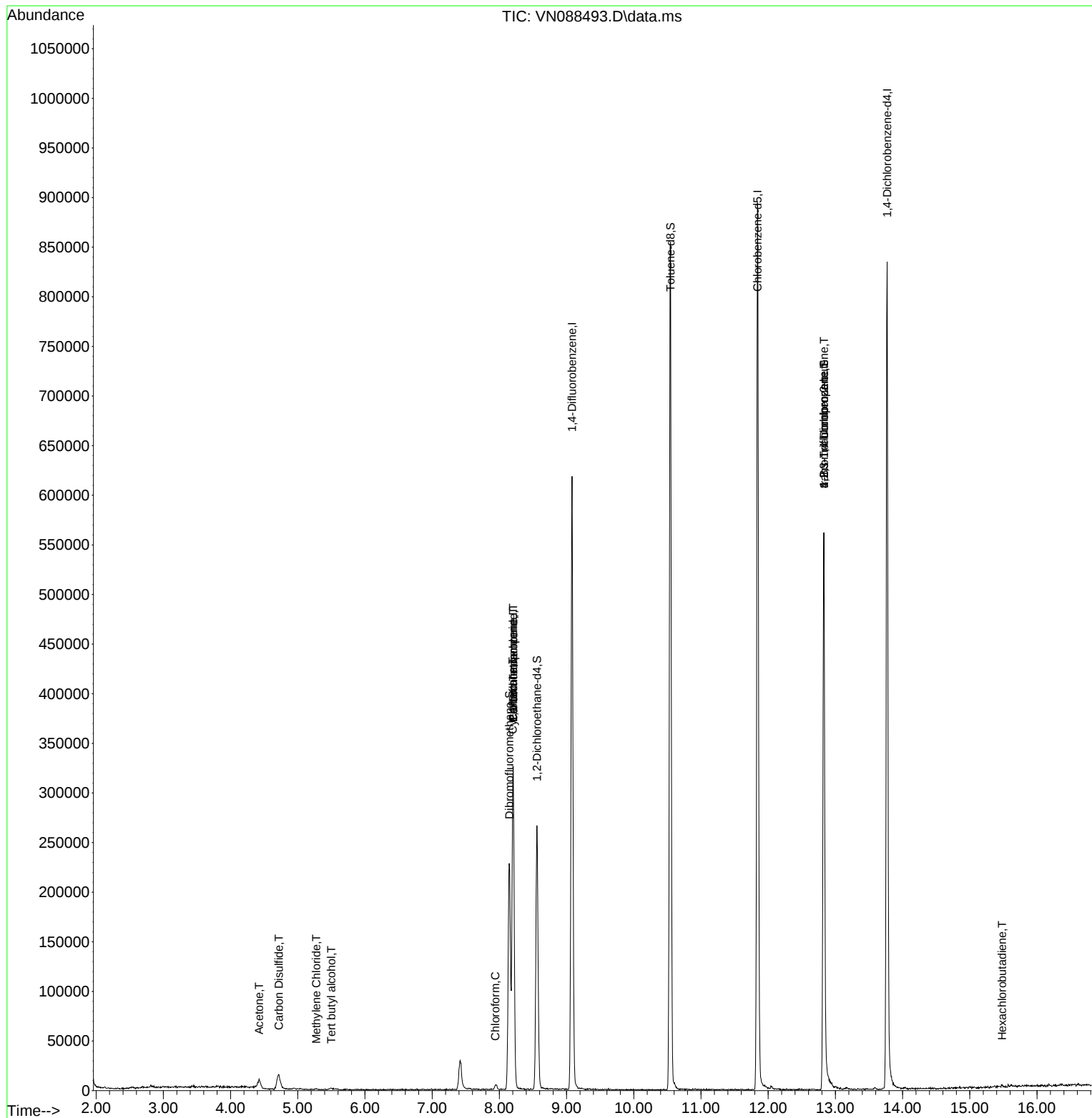
Internal Standards						
1) Pentafluorobenzene	8.206	168	207235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	478662	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	473650	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	215051	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227328	58.231	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 116.460%	
35) Dibromofluoromethane	8.147	113	163948	49.425	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.840%	
50) Toluene-d8	10.547	98	573401	46.459	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.920%	
62) 4-Bromofluorobenzene	12.829	95	213914	50.513	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 101.020%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.500	59	1196	1.919	ug/l #	72
16) Acetone	4.424	43	18673	13.226	ug/l #	77
17) Carbon Disulfide	4.718	76	1694	0.205	ug/l #	76
20) Methylene Chloride	5.277	84	608	0.201	ug/l #	52
30) Chloroform	7.941	83	5302	0.952	ug/l #	82
31) Cyclohexane	8.200	56	7543	1.469	ug/l #	40
36) 1,1-Dichloropropene	8.206	75	22241	4.344	ug/l #	51
38) Carbon Tetrachloride	8.206	117	26039	5.109	ug/l #	15
76) 1,2,3-Trichloropropane	12.829	75	122177	24.257	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	122177	68.814	ug/l #	1
94) Hexachlorobutadiene	15.482	225	449	0.316	ug/l	83

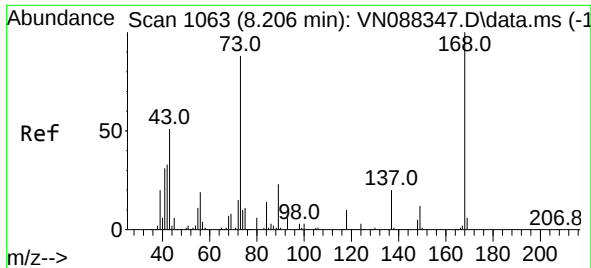
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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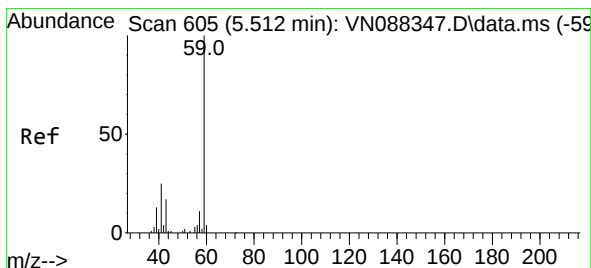
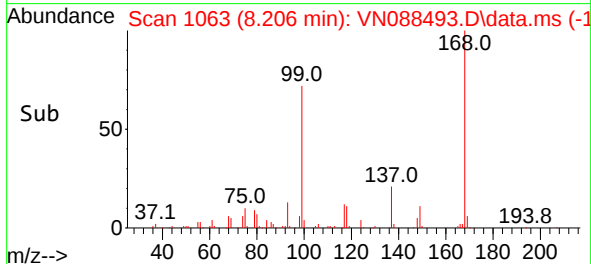
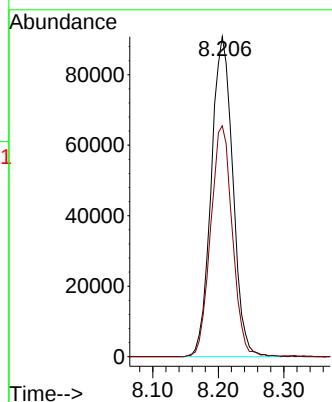
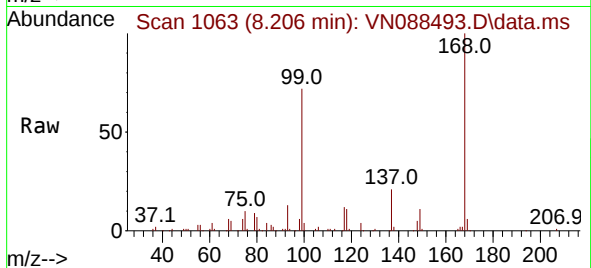




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

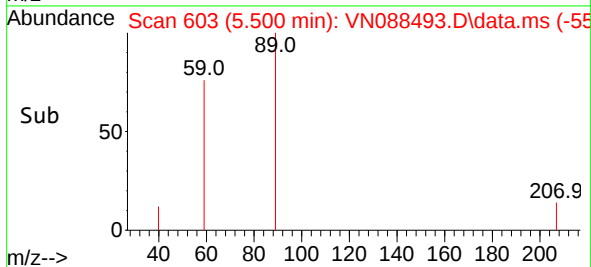
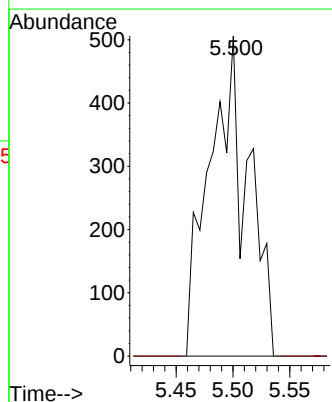
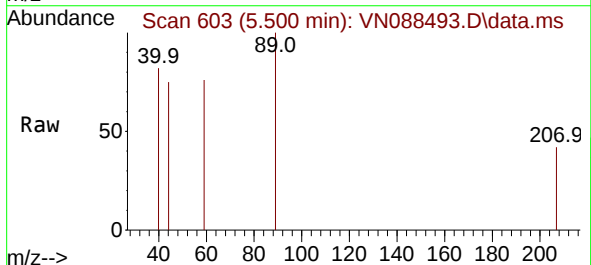
Instrument :
MSVOA_N
ClientSampleId :

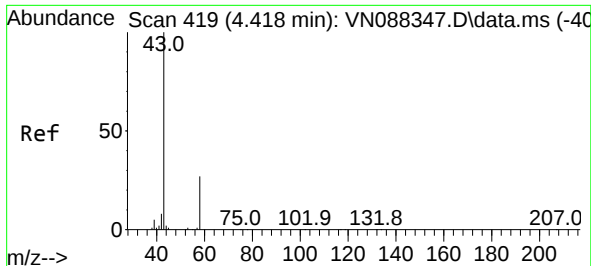
Tgt Ion:168 Resp: 207235
Ion Ratio Lower Upper
168 100
99 72.1 57.1 85.7



#11
Tert butyl alcohol
Concen: 1.919 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Tgt Ion: 59 Resp: 1196
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

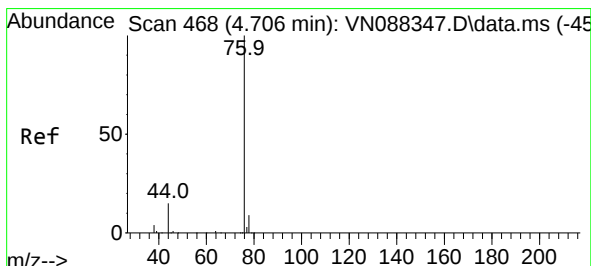
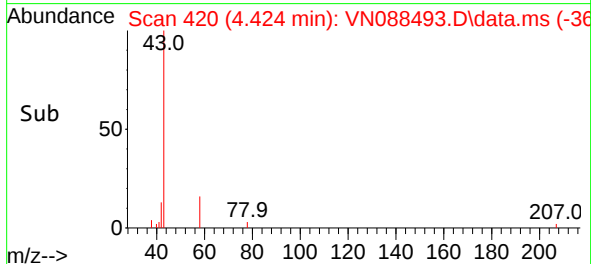
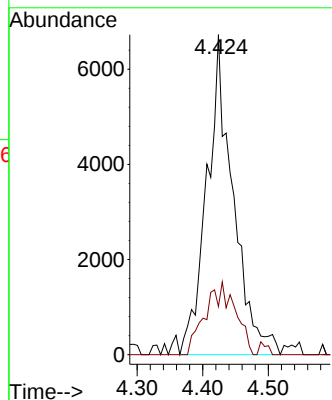
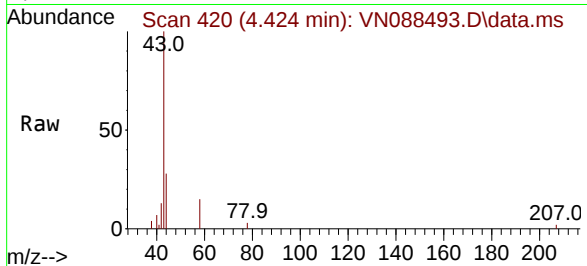




#16
Acetone
Concen: 13.226 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

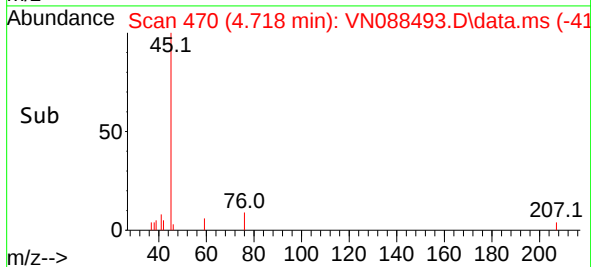
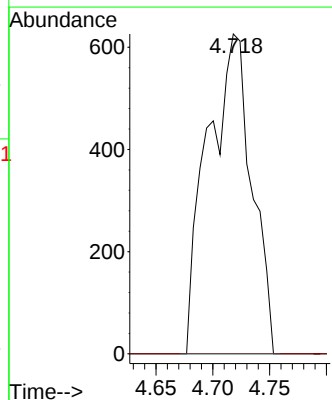
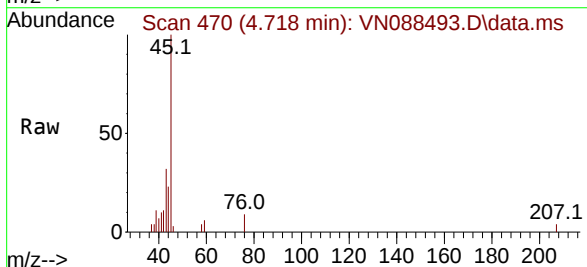
Instrument :
MSVOA_N
ClientSampleId :

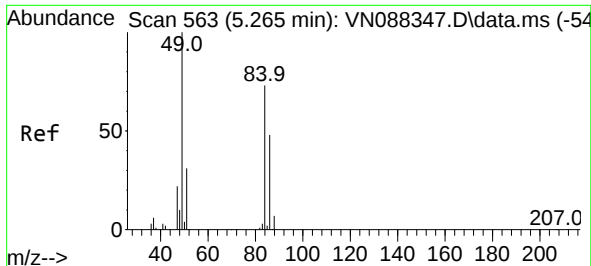
Tgt Ion: 43 Resp: 18673
Ion Ratio Lower Upper
43 100
58 15.0 21.7 32.5#



#17
Carbon Disulfide
Concen: 0.205 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.012 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

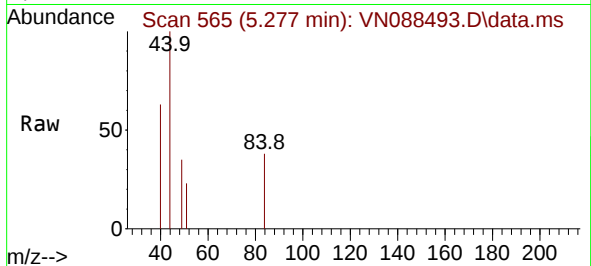
Tgt Ion: 76 Resp: 1694
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



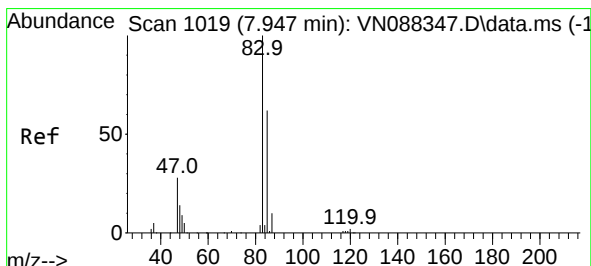
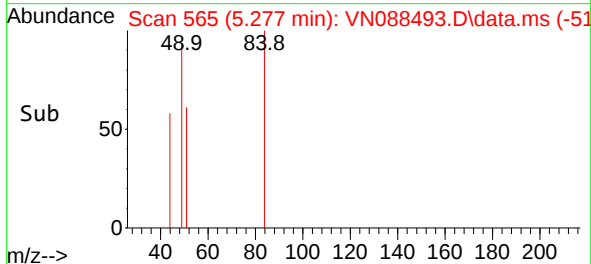
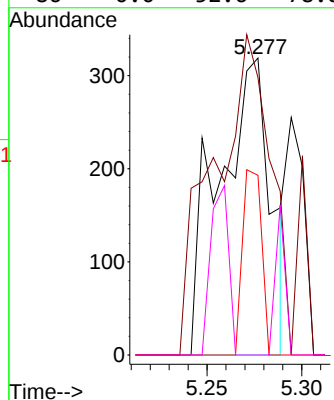


#20
Methylene Chloride
Concen: 0.201 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :

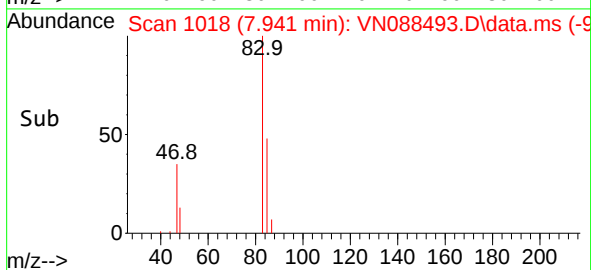
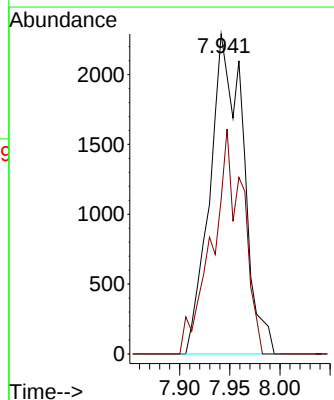
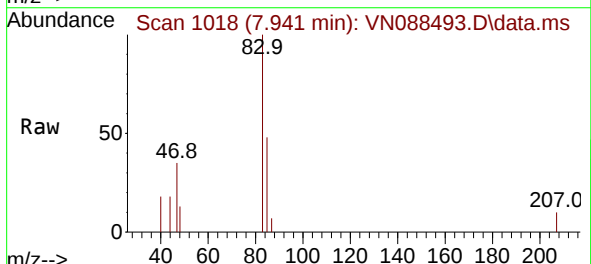


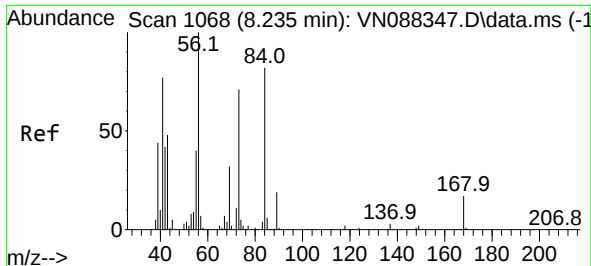
Tgt Ion: 84 Resp: 608
Ion Ratio Lower Upper
84 100
49 93.4 110.2 165.2#
51 60.5 34.1 51.1#
86 0.0 52.6 78.8#



#30
Chloroform
Concen: 0.952 ug/l
RT: 7.941 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

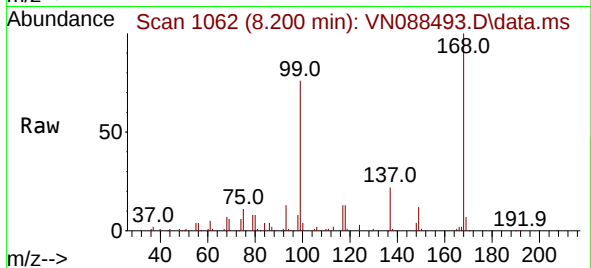
Tgt Ion: 83 Resp: 5302
Ion Ratio Lower Upper
83 100
85 48.4 49.8 74.8#



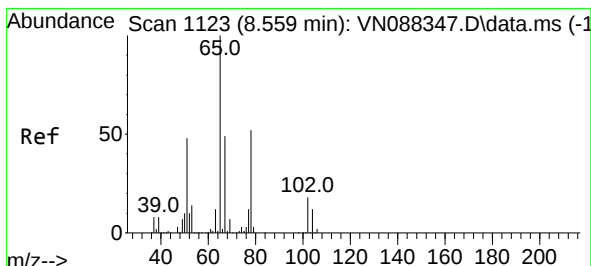
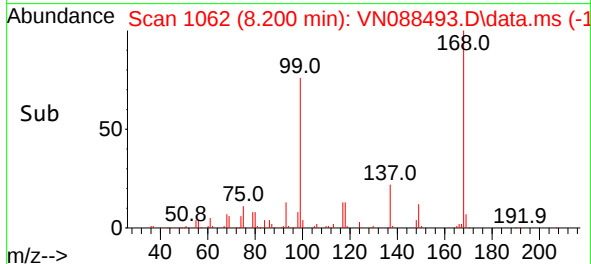
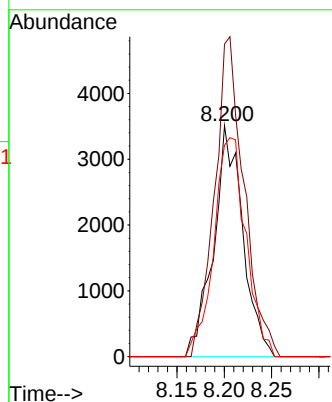


#31
Cyclohexane
Concen: 1.469 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :

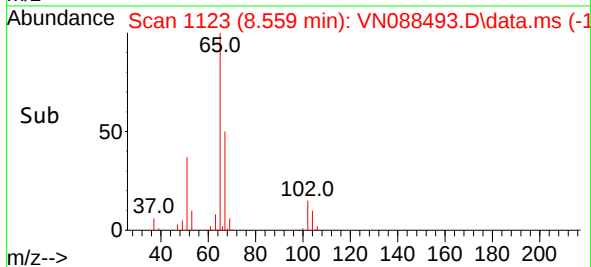
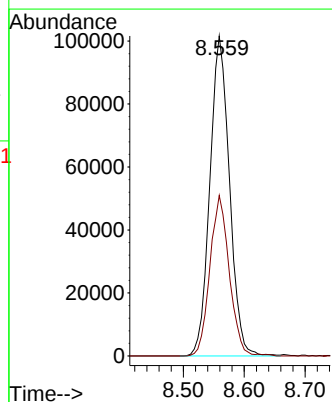
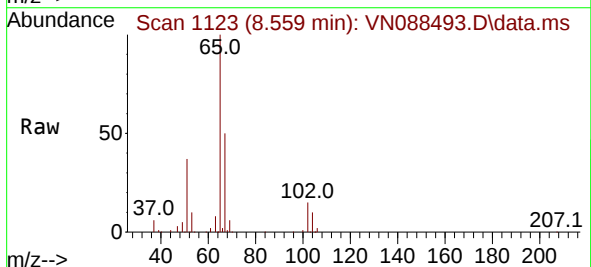


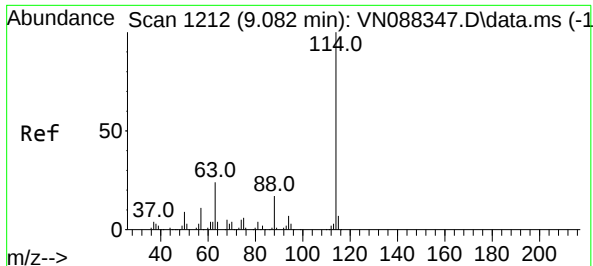
Tgt Ion	Ratio	Lower	Upper
56	100		
69	135.4	25.3	37.9#
84	91.6	65.4	98.2



#33
1,2-Dichloroethane-d4
Concen: 58.231 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Tgt Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

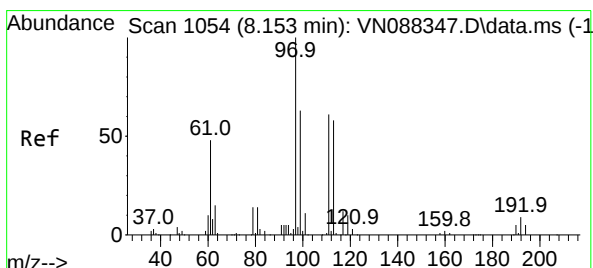
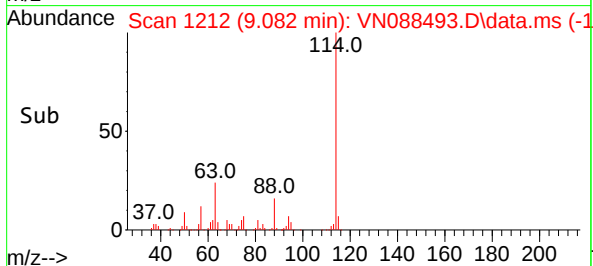
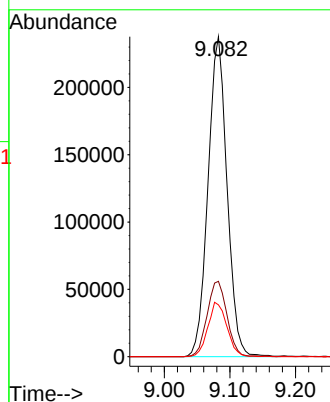
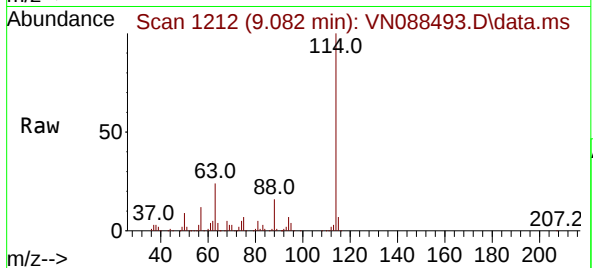
Tgt Ion:114 Resp: 478662

Ion Ratio Lower Upper

114 100

63 23.6 0.0 49.0

88 16.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.425 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

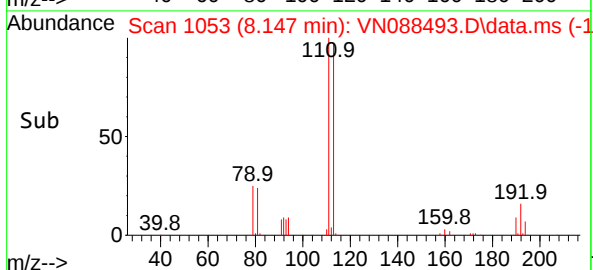
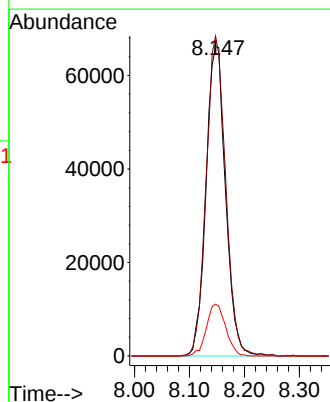
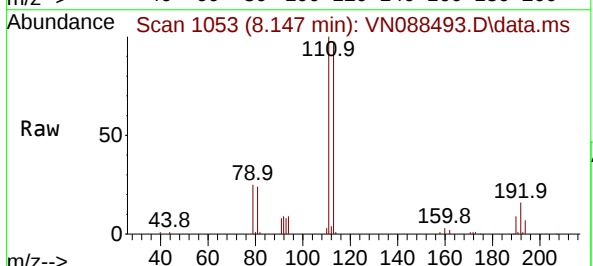
Tgt Ion:113 Resp: 163948

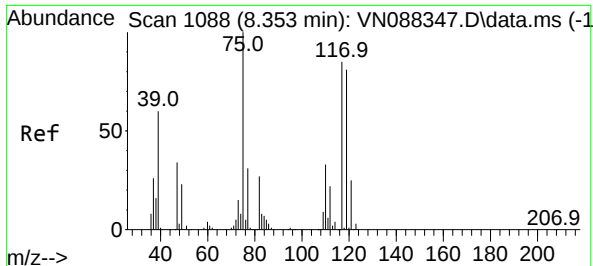
Ion Ratio Lower Upper

113 100

111 103.1 82.5 123.7

192 16.5 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.344 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

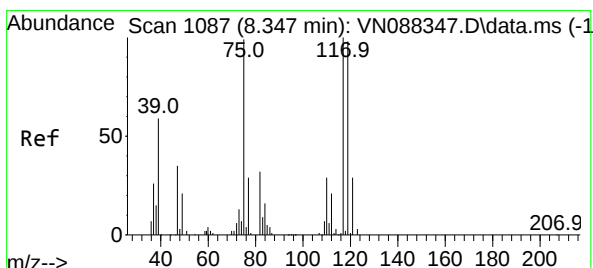
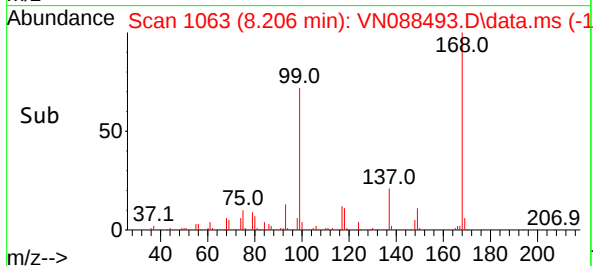
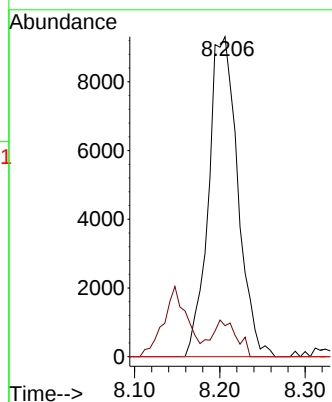
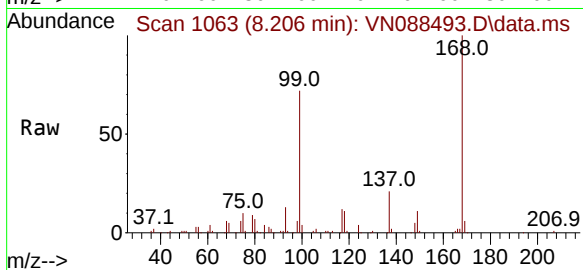
Tgt Ion: 75 Resp: 22241

Ion Ratio Lower Upper

75 100

110 8.3 15.8 47.4#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.109 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

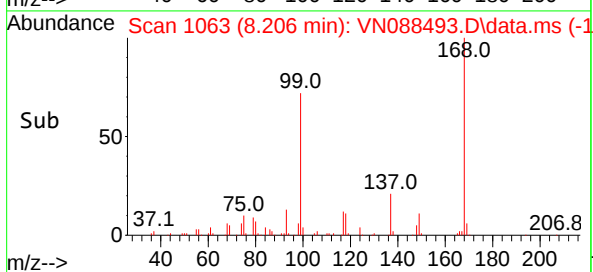
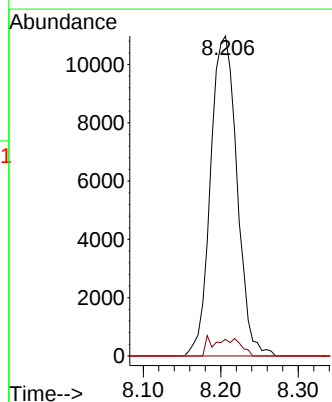
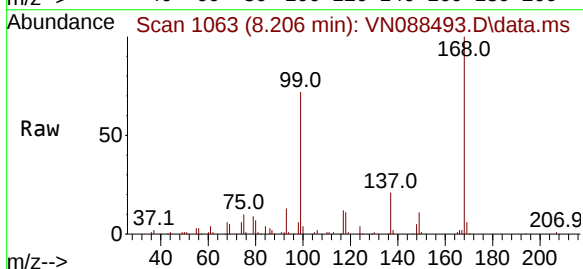
Tgt Ion: 117 Resp: 26039

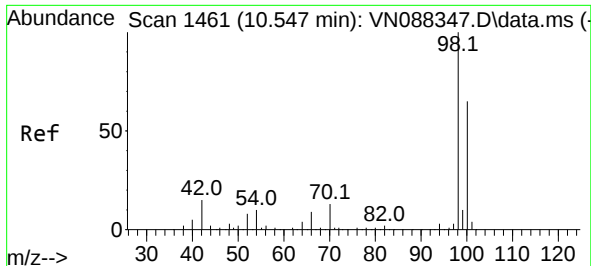
Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.4#

121 0.0 23.4 35.2#

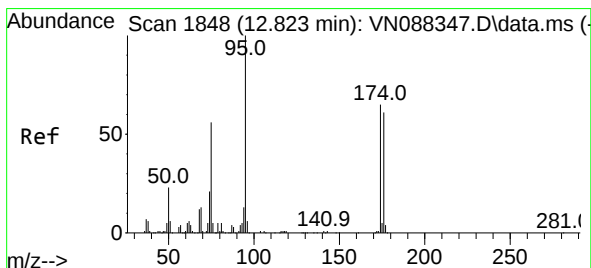
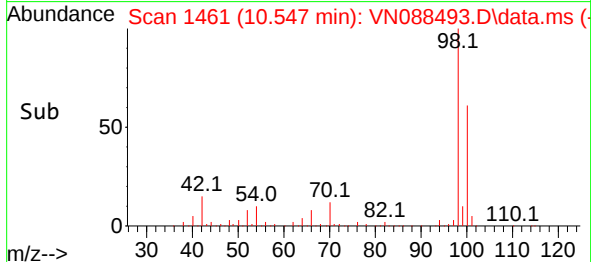
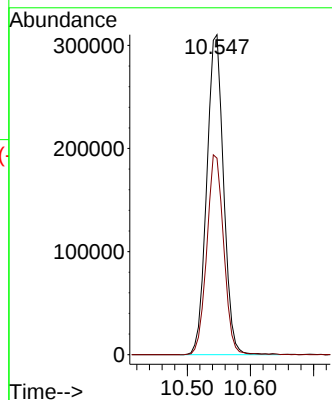
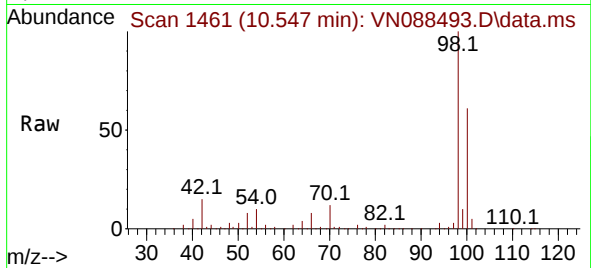




#50
Toluene-d8
Concen: 46.459 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

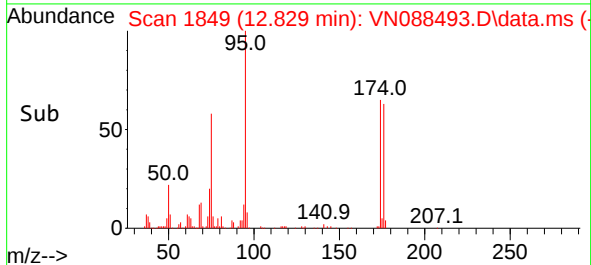
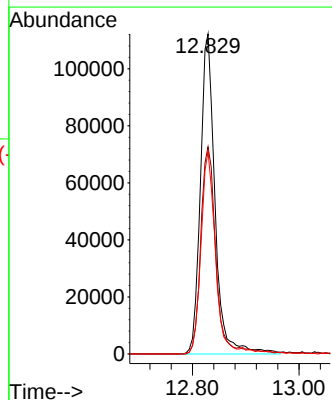
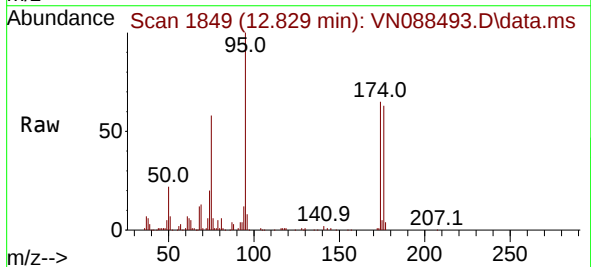
Instrument :
MSVOA_N
ClientSampleId :

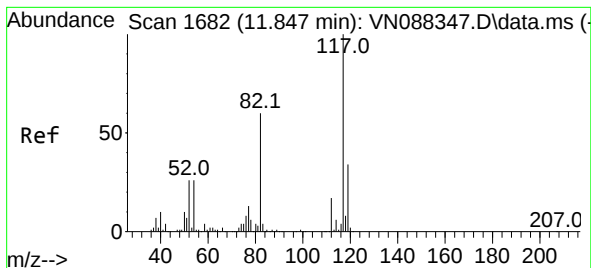
Tgt Ion: 98 Resp: 573401
Ion Ratio Lower Upper
98 100
100 62.7 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 50.513 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Tgt Ion: 95 Resp: 213914
Ion Ratio Lower Upper
95 100
174 67.0 0.0 139.0
176 61.2 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.006 min

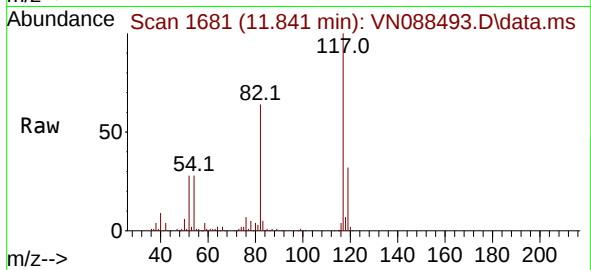
Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :



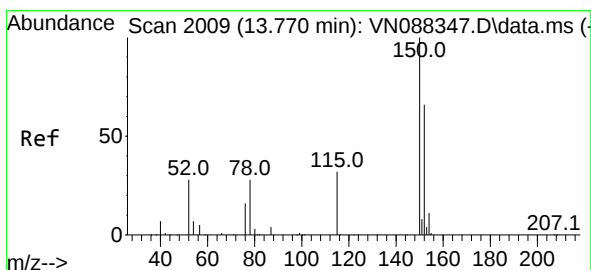
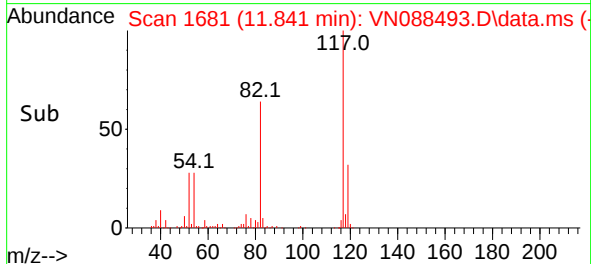
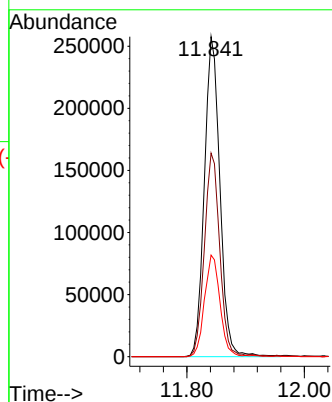
Tgt Ion:117 Resp: 473650

Ion Ratio Lower Upper

117 100

82 63.6 47.8 71.8

119 31.8 26.9 40.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

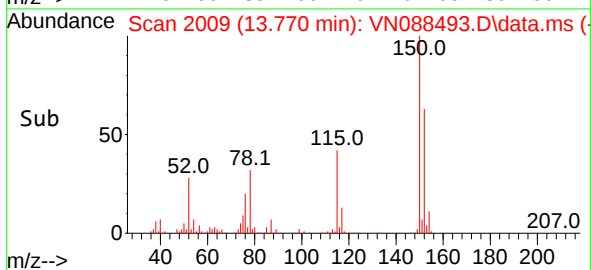
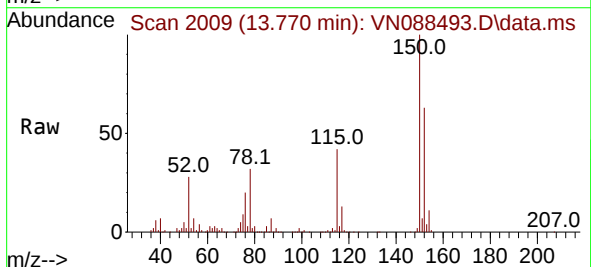
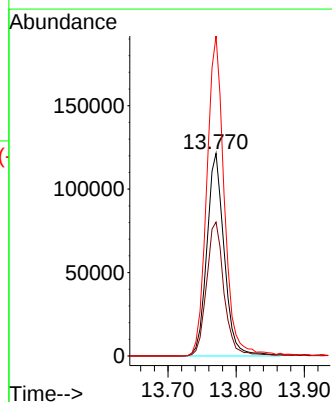
Tgt Ion:152 Resp: 215051

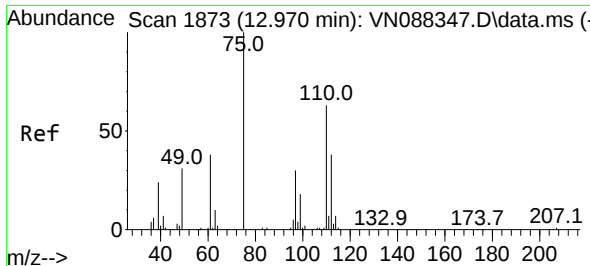
Ion Ratio Lower Upper

152 100

115 66.8 33.0 98.9

150 159.9 0.0 349.0

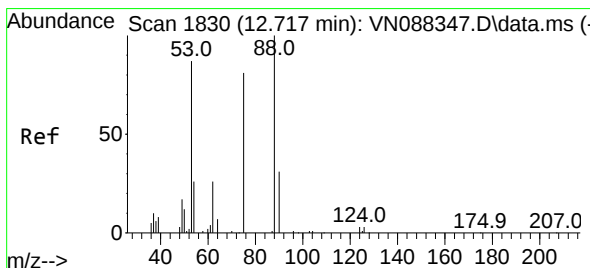
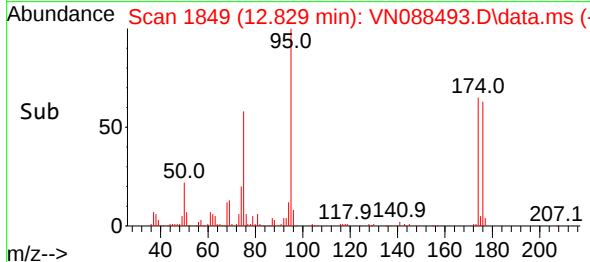
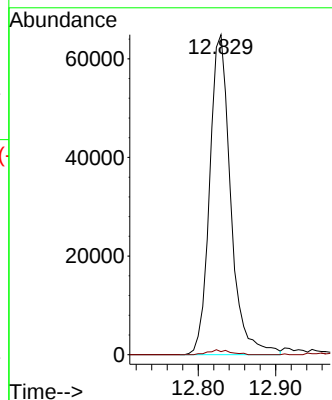
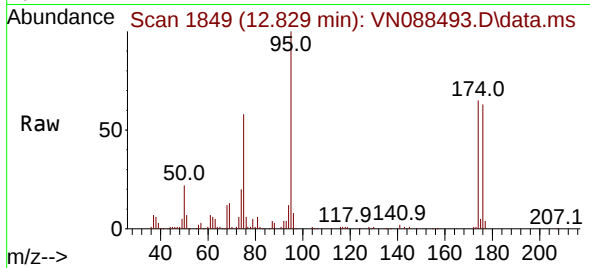




#76
1,2,3-Trichloropropane
Concen: 24.257 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

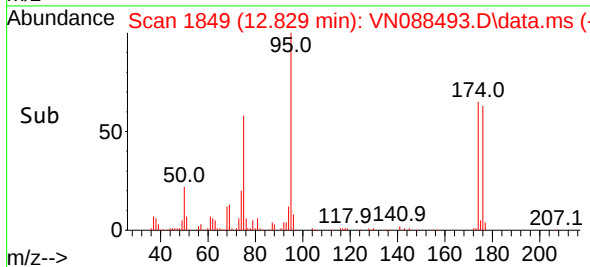
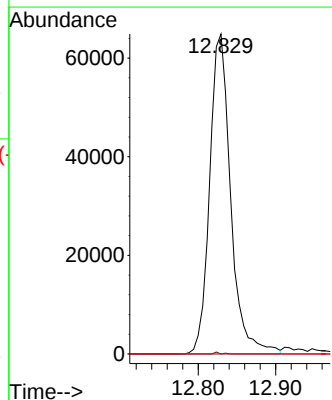
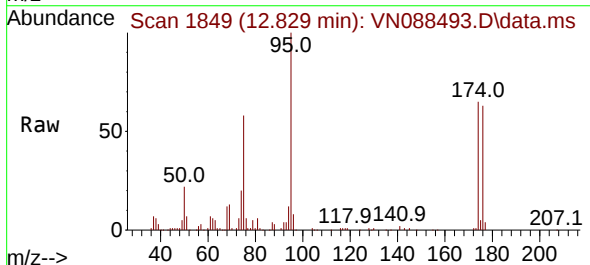
Instrument :
MSVOA_N
ClientSampleId :

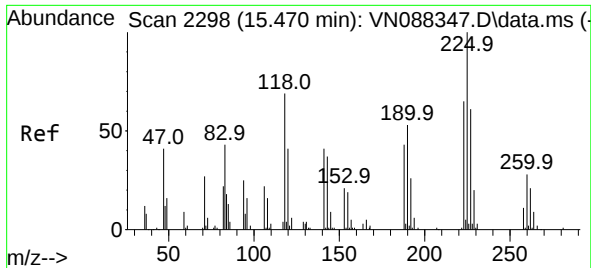
Tgt Ion: 75 Resp: 122177
Ion Ratio Lower Upper
75 100
77 1.6 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.814 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

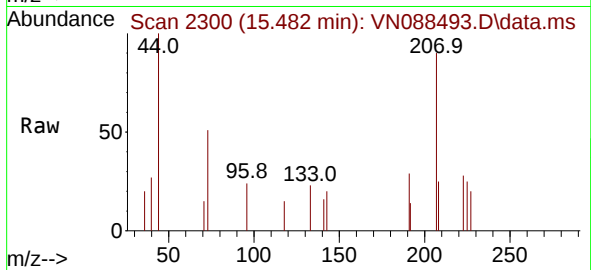
Tgt Ion: 75 Resp: 122177
Ion Ratio Lower Upper
75 100
53 0.2 92.2 138.4#
89 0.0 0.0 0.0





#94
 Hexachlorobutadiene
 Concen: 0.316 ug/l
 RT: 15.482 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN088493.D
 Acq: 10 Dec 2025 12:44

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	225	Resp:	449
Ion	Ratio	Lower	Upper
225	100		
223	56.8	32.3	96.8
227	78.4	29.9	89.8

