

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087319.D
 Acq On : 10 Jul 2025 12:26
 Operator : JC\MD
 Sample : VN0710WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 11 01:09:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

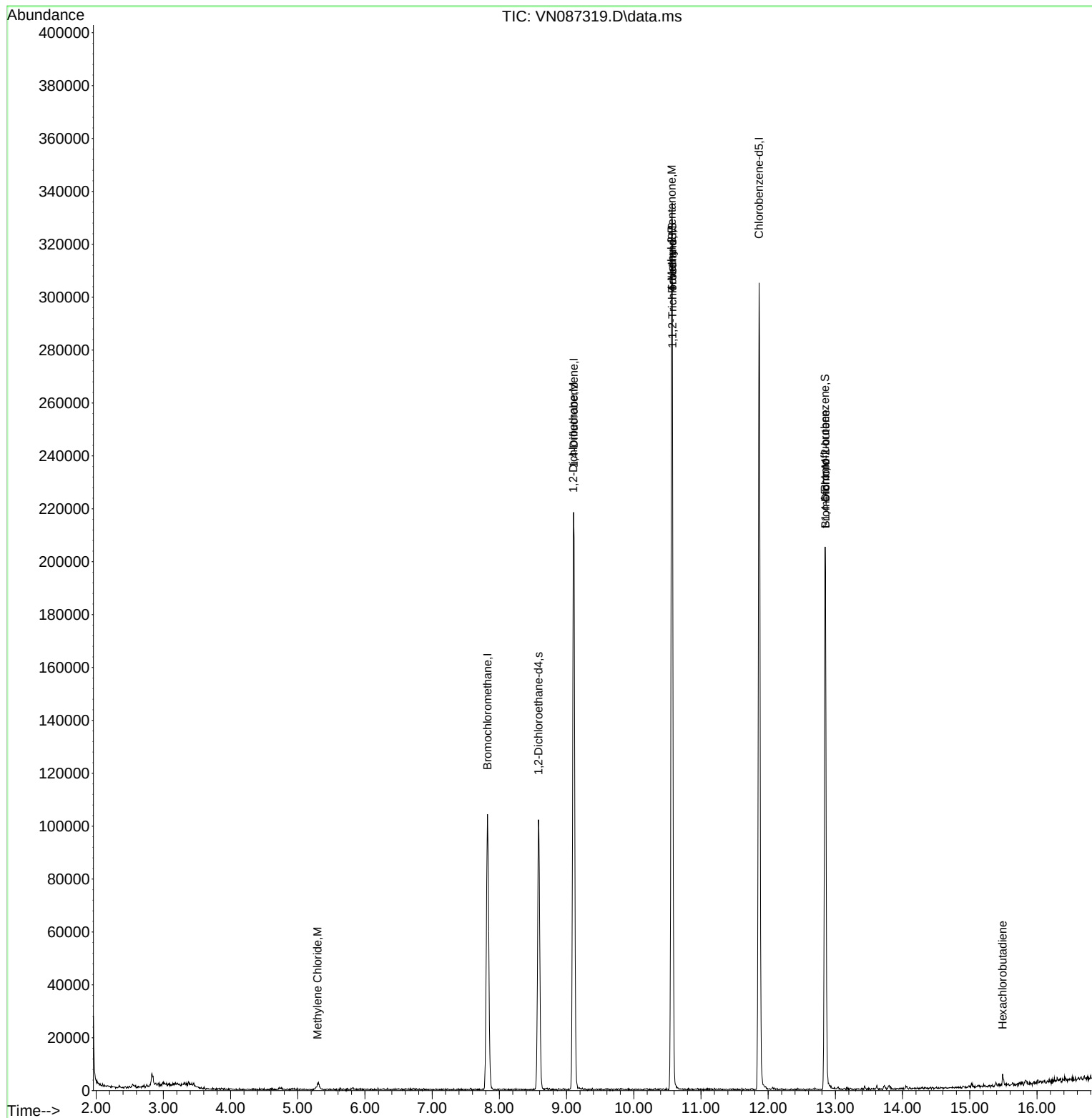
Internal Standards						
1) Bromochloromethane	7.824	128	39626	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	200573	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	184716	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	85505	28.639	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.467%
60) 4-Bromofluorobenzene	12.847	95	77663	27.247	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.833%
63) Toluene-d8	10.571	98	242398	29.227	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.433%
Target Compounds						
					Qvalue	
18) Methylene Chloride	5.294	84	756	0.272	ug/l #	80
36) 1,2-Dichloroethane	9.100	62	6689	2.090	ug/l #	75
50) 1,1,2-Trichloroethane	10.576	97	9194	3.829	ug/l #	1
56) Bromoform	12.853	173	556	0.321	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	872	0.235	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	39121	27.328	ug/l #	13
90) Hexachlorobutadiene	15.488	225	431	0.561	ug/l	88

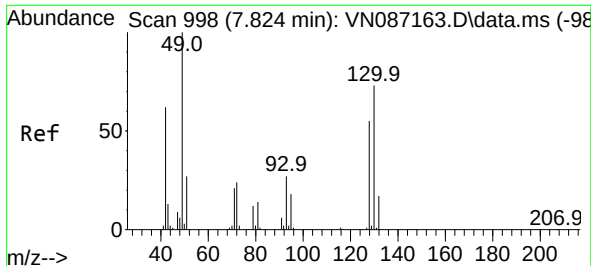
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

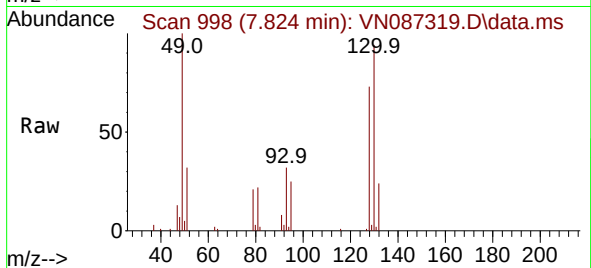
Quant Time: Jul 11 01:09:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
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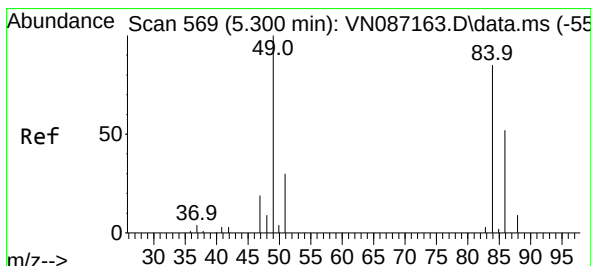
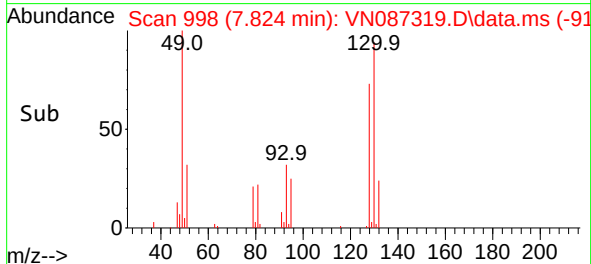
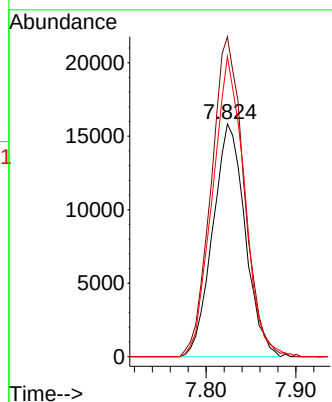


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

Instrument :
MSVOA_N
ClientSampleId :

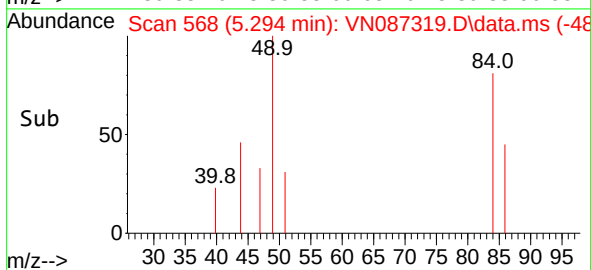
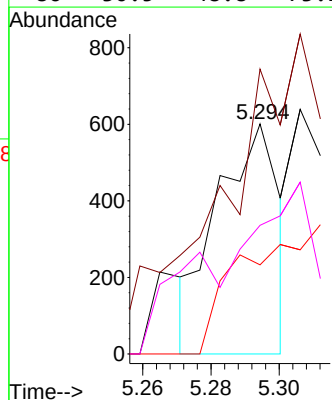
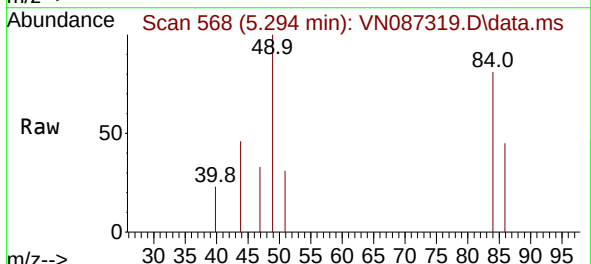


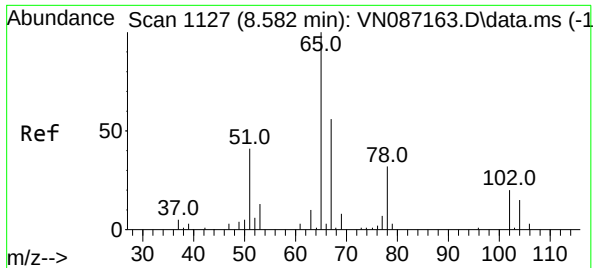
Tgt Ion:128 Resp: 39626
Ion Ratio Lower Upper
128 100
49 138.9 0.0 450.5
130 127.4 0.0 320.7



#18
Methylene Chloride
Concen: 0.272 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.006 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

Tgt Ion: 84 Resp: 756
Ion Ratio Lower Upper
84 100
49 121.8 94.0 141.0
51 58.3 28.3 42.5#
86 30.5 48.8 73.2#

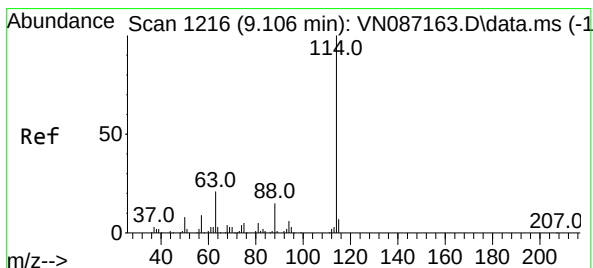
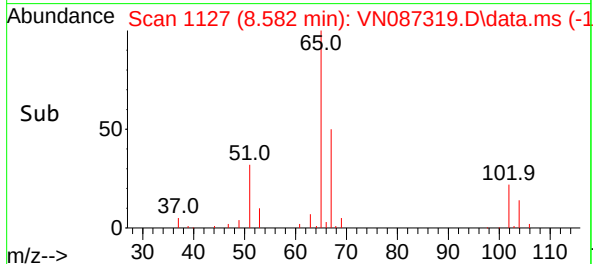
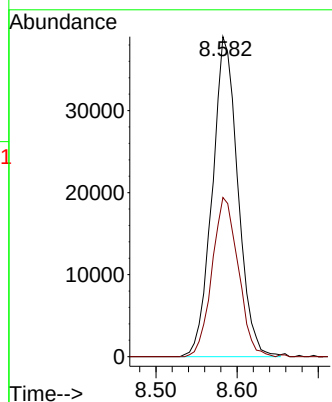
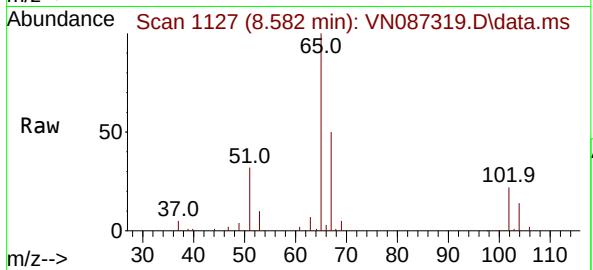




#27
1,2-Dichloroethane-d4
Concen: 28.639 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

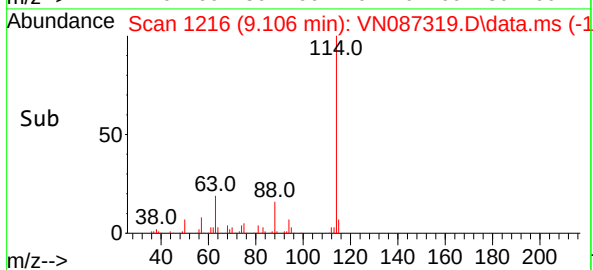
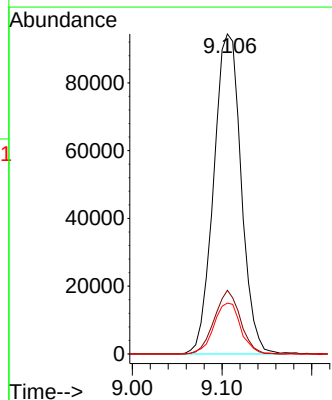
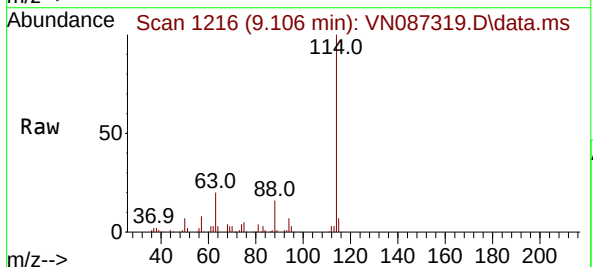
Instrument :
MSVOA_N
ClientSampleId :

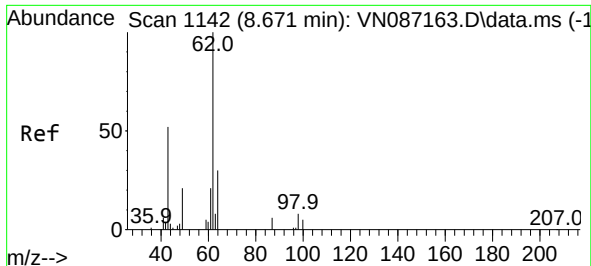
Tgt Ion: 65 Resp: 85505
Ion Ratio Lower Upper
65 100
67 50.9 41.9 62.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

Tgt Ion: 114 Resp: 200573
Ion Ratio Lower Upper
114 100
63 18.8 17.0 25.4
88 15.5 12.6 19.0





#36

1,2-Dichloroethane

Concen: 2.090 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN087319.D

Acq: 10 Jul 2025 12:26

Instrument :

MSVOA_N

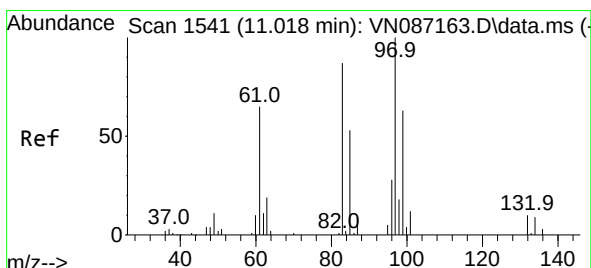
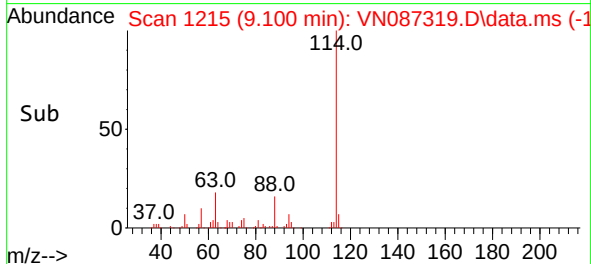
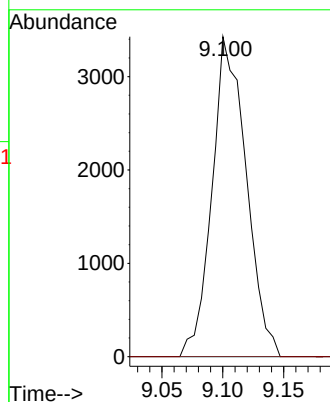
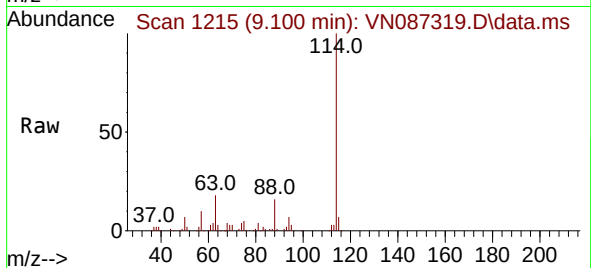
ClientSampleId :

Tgt Ion: 62 Resp: 6689

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 3.829 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN087319.D

Acq: 10 Jul 2025 12:26

Tgt Ion: 97 Resp: 9194

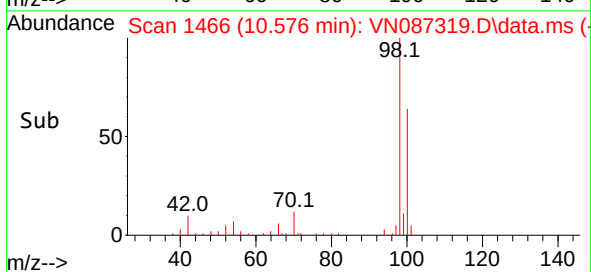
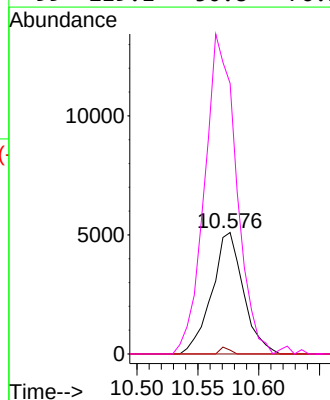
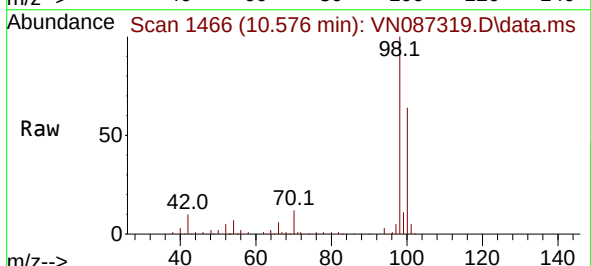
Ion Ratio Lower Upper

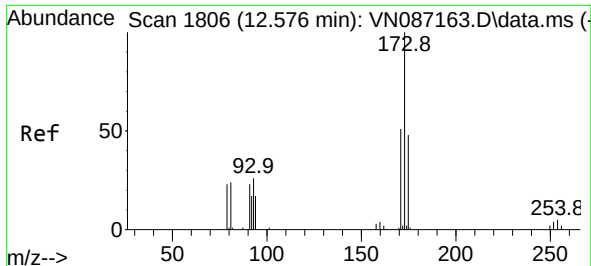
97 100

83 3.1 69.6 104.4#

85 0.0 42.0 63.0#

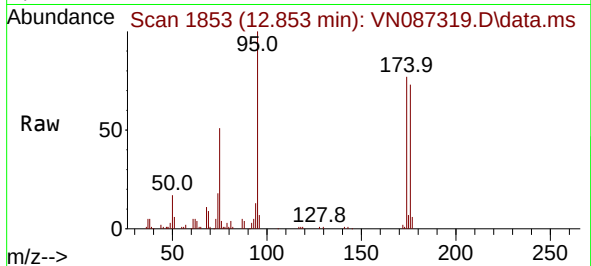
99 219.1 50.8 76.2#



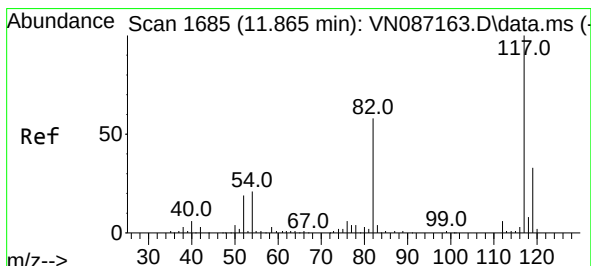
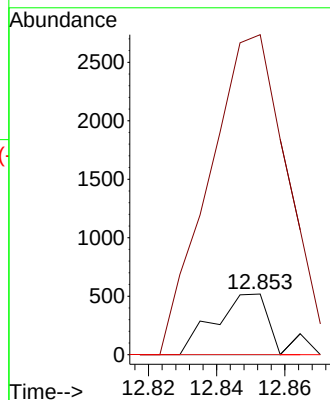
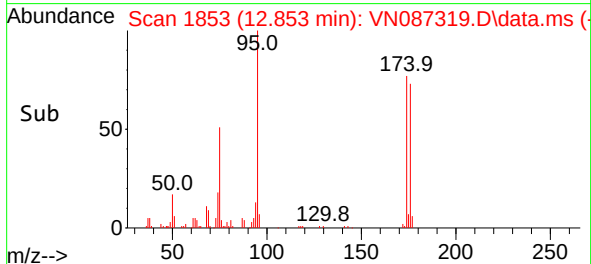


#56
Bromoform
Concen: 0.321 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

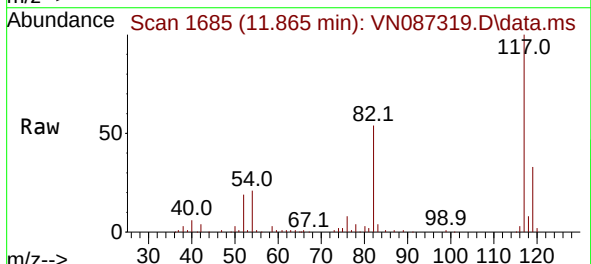
Instrument :
MSVOA_N
ClientSampleId :



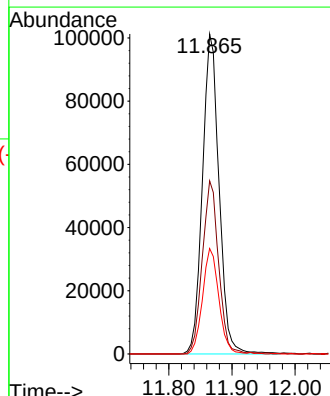
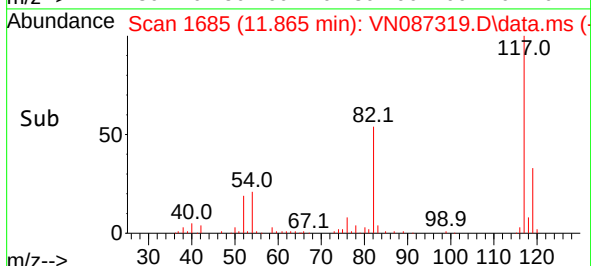
Tgt Ion:173 Resp: 556
Ion Ratio Lower Upper
173 100
175 808.3 38.7 58.1#
254 0.0 4.2 6.4#

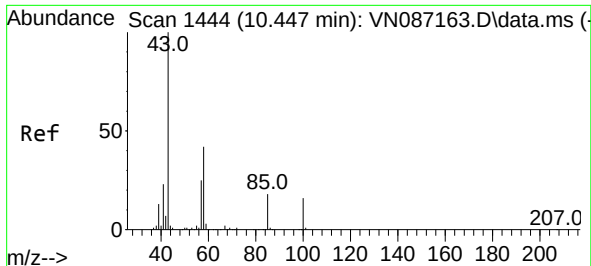


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26



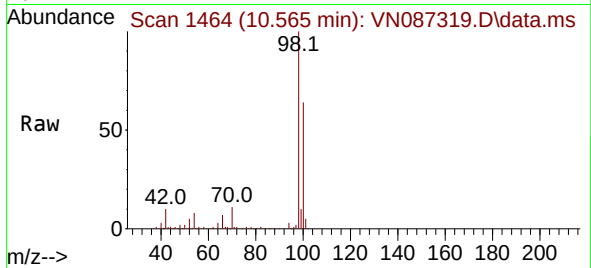
Tgt Ion:117 Resp: 184716
Ion Ratio Lower Upper
117 100
82 53.0 45.4 68.2
119 32.3 26.2 39.4



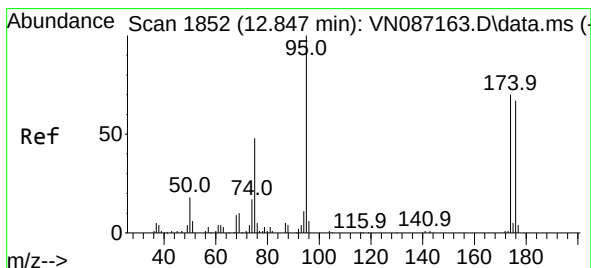
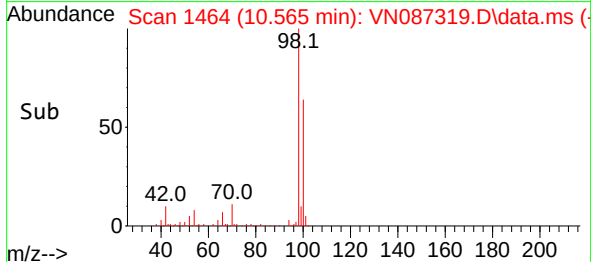
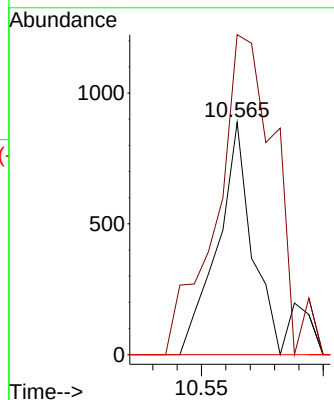


#58
4-Methyl-2-Pentanone
Concen: 0.235 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

Instrument :
MSVOA_N
ClientSampleId :

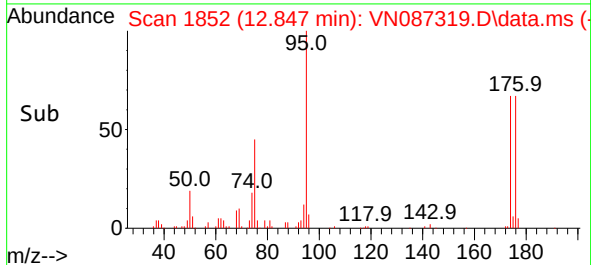
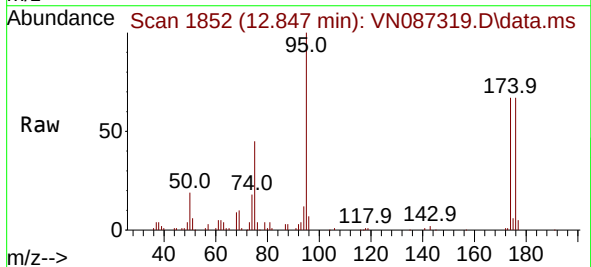
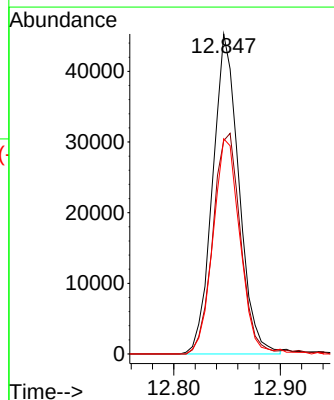


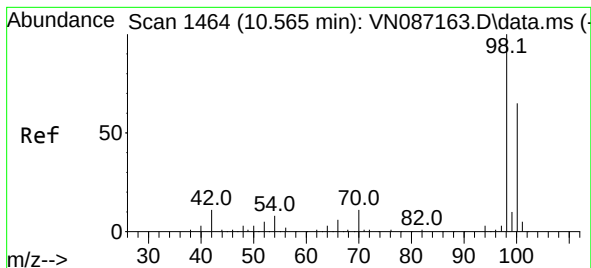
Tgt Ion: 43 Resp: 872
Ion Ratio Lower Upper
43 100
58 227.5 32.6 49.0#
85 0.0 14.6 22.0#



#60
4-Bromofluorobenzene
Concen: 27.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087319.D
Acq: 10 Jul 2025 12:26

Tgt Ion: 95 Resp: 77663
Ion Ratio Lower Upper
95 100
174 72.3 54.5 81.7
176 68.5 51.9 77.9





#63

Toluene-d8

Concen: 29.227 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN087319.D

Acq: 10 Jul 2025 12:26

Instrument :

MSVOA_N

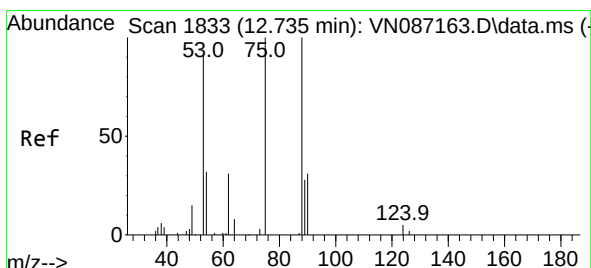
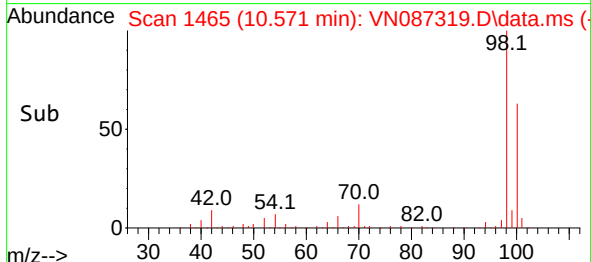
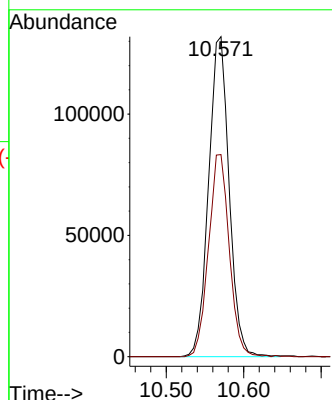
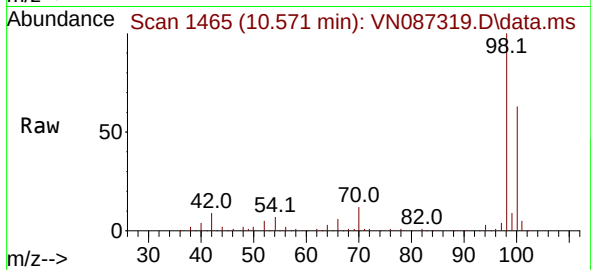
ClientSampleId :

Tgt Ion: 98 Resp: 242398

Ion Ratio Lower Upper

98 100

100 63.8 52.5 78.7



#77

t-1,4-Dichloro-2-butene

Concen: 27.328 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN087319.D

Acq: 10 Jul 2025 12:26

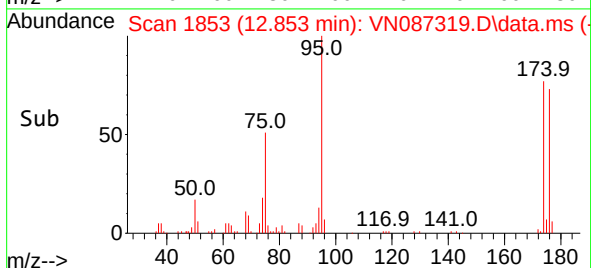
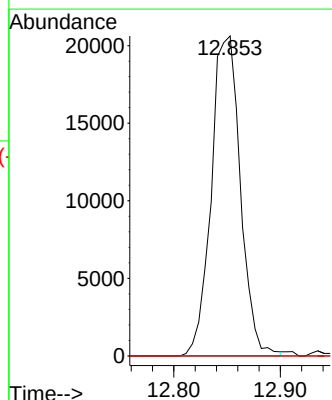
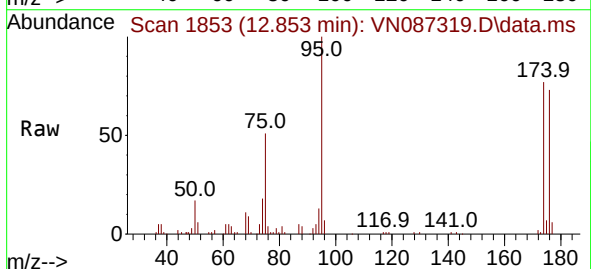
Tgt Ion: 75 Resp: 39121

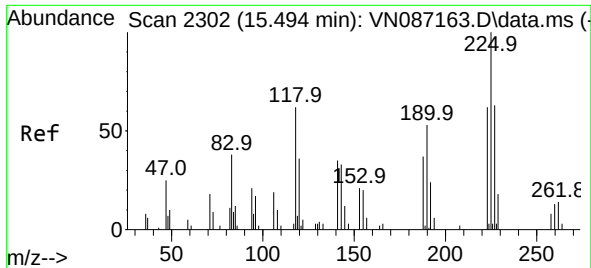
Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.6#

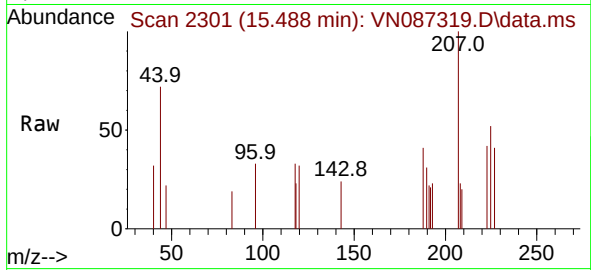
89 0.0 22.3 66.9#





#90
 Hexachlorobutadiene
 Concen: 0.561 ug/l
 RT: 15.488 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN087319.D
 Acq: 10 Jul 2025 12:26

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	225	Resp:	431
Ion	Ratio	Lower	Upper
225	100		
223	72.4	0.0	134.2
227	46.9	0.0	122.6

