

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087171.D
 Acq On : 25 Jun 2025 12:36
 Operator : JC\MD
 Sample : VN0625WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0625WBL01

Quant Time: Jun 25 15:30:51 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)

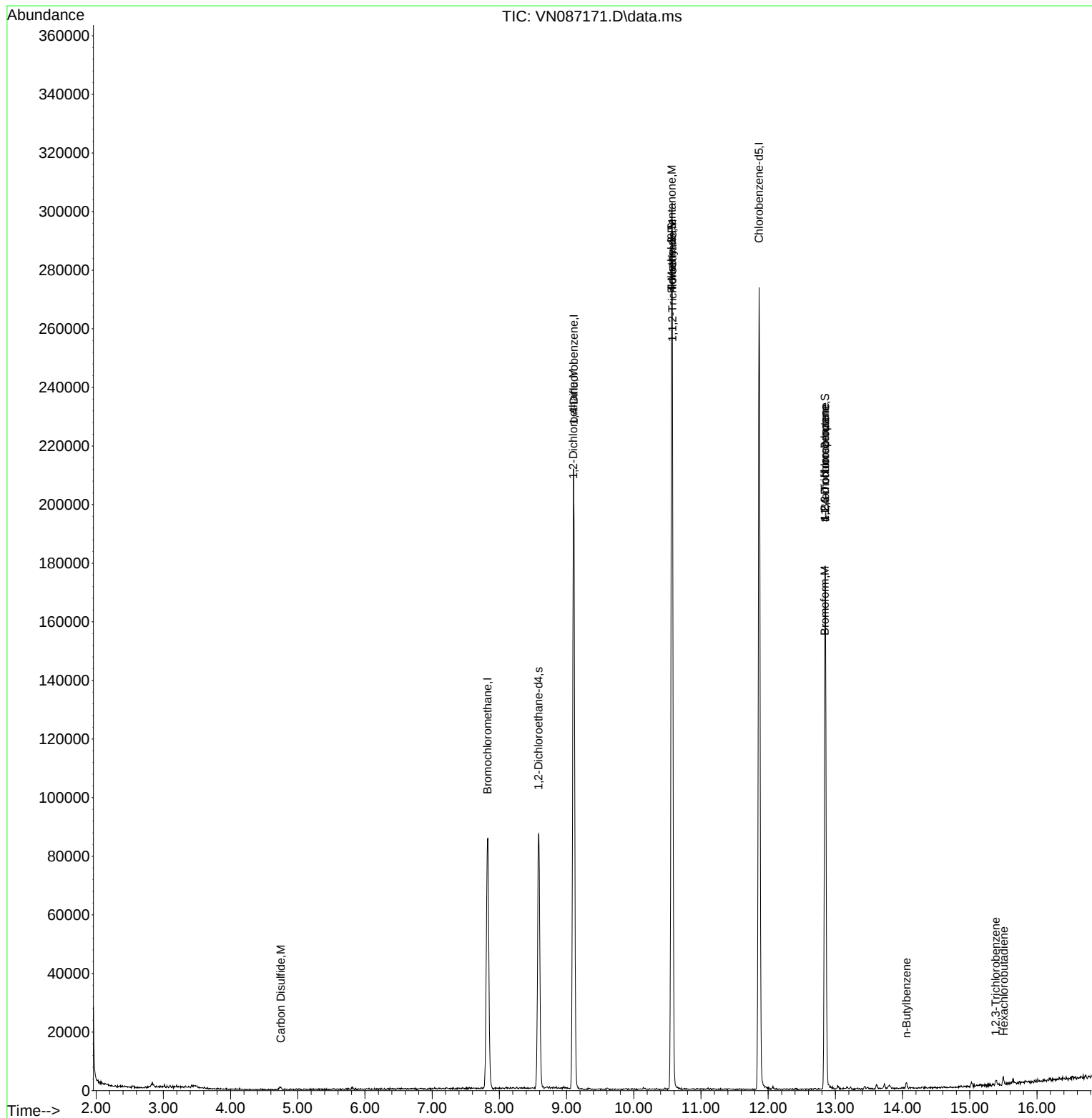
Internal Standards						
1) Bromochloromethane	7.824	128	33553	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	188572	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167117	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	72893	28.834	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.100%		
60) 4-Bromofluorobenzene	12.847	95	70577	27.368	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.233%		
63) Toluene-d8	10.565	98	222058	29.594	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.633%		
Target Compounds						
					Qvalue	
16) Carbon Disulfide	4.747	76	1415	0.238	ug/l #	75
36) 1,2-Dichloroethane	9.100	62	6088	2.024	ug/l #	75
50) 1,1,2-Trichloroethane	10.577	97	6963	3.084	ug/l #	1
56) Bromoform	12.841	173	339	0.208	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	762	0.227	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	35501	12.159	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	35501	27.411	ug/l #	13
85) n-Butylbenzene	14.059	91	1620	0.228	ug/l	89
90) Hexachlorobutadiene	15.506	225	713	1.025	ug/l	75
92) 1,2,3-Trichlorobenzene	15.388	180	807	0.344	ug/l	85

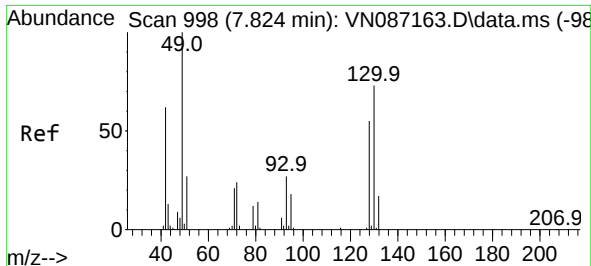
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VN0625WBL01

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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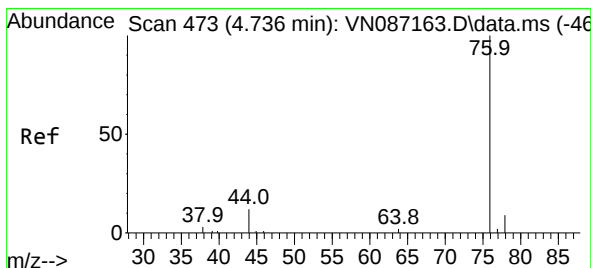
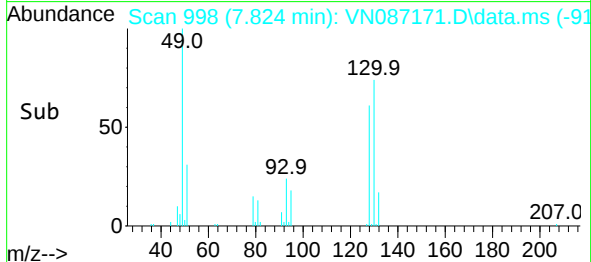
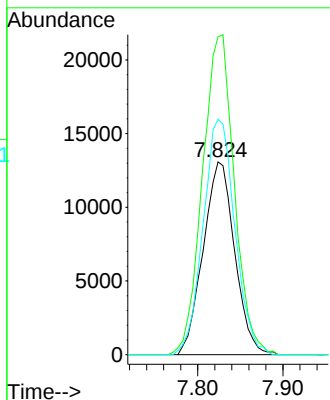
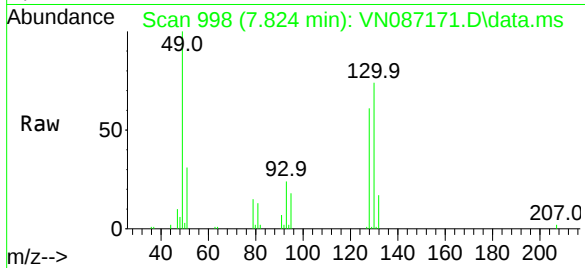




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

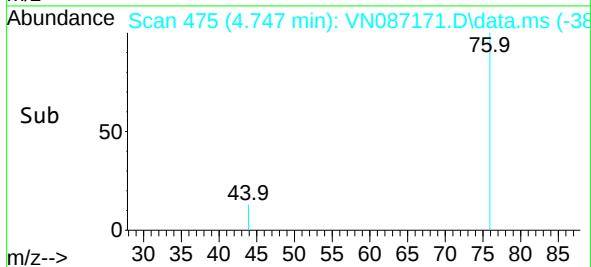
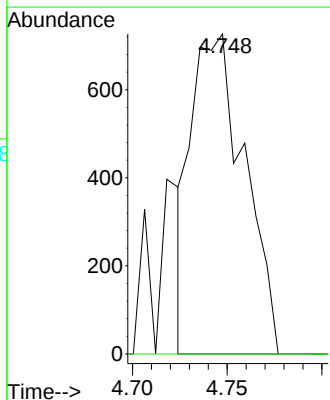
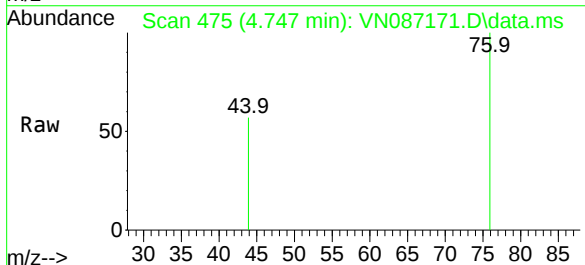
Instrument :
MSVOA_N
ClientSampleId :
VN0625WBL01

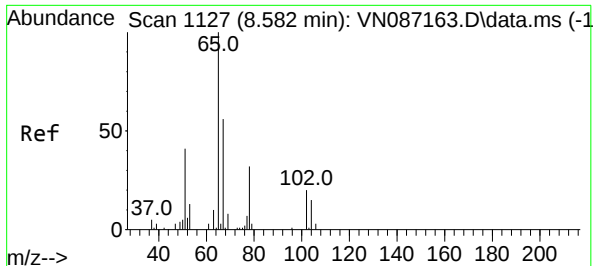
Tgt Ion:128 Resp: 33553
Ion Ratio Lower Upper
128 100
49 167.4 0.0 450.5
130 123.4 0.0 320.7



#16
Carbon Disulfide
Concen: 0.238 ug/l
RT: 4.747 min Scan# 475
Delta R.T. 0.012 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

Tgt Ion: 76 Resp: 1415
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#





#27

1,2-Dichloroethane-d4

Concen: 28.834 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

Instrument :

MSVOA_N

ClientSampleId :

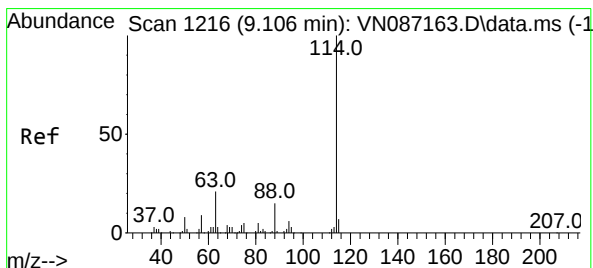
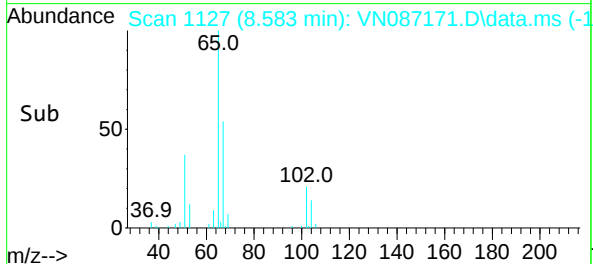
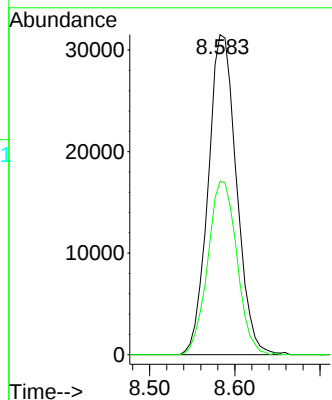
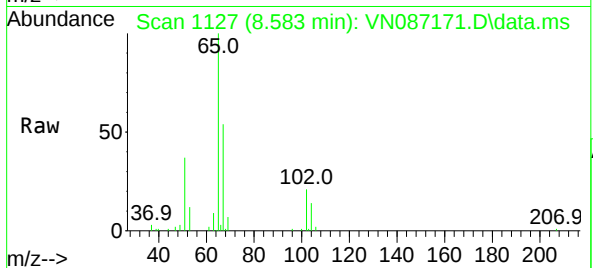
VN0625WBL01

Tgt Ion: 65 Resp: 72893

Ion Ratio Lower Upper

65 100

67 55.6 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: VN087171.D

Acq: 25 Jun 2025 12:36

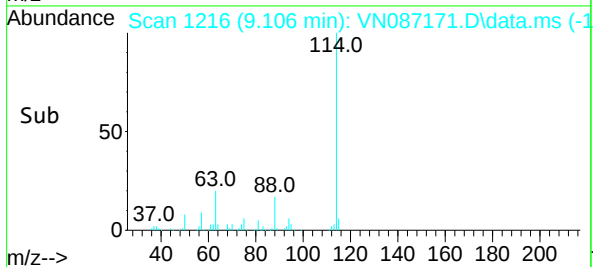
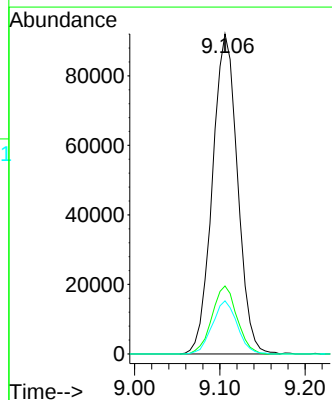
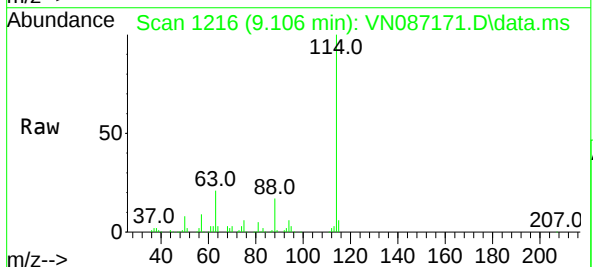
Tgt Ion: 114 Resp: 188572

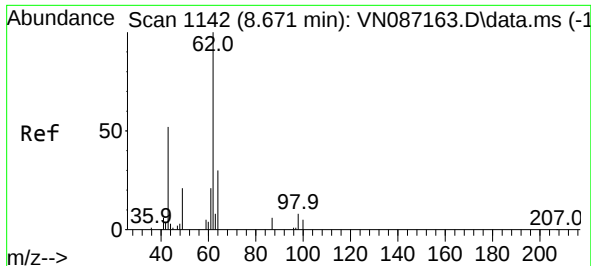
Ion Ratio Lower Upper

114 100

63 21.1 17.0 25.4

88 16.4 12.6 19.0





#36

1,2-Dichloroethane

Concen: 2.024 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

Instrument :

MSVOA_N

ClientSampleId :

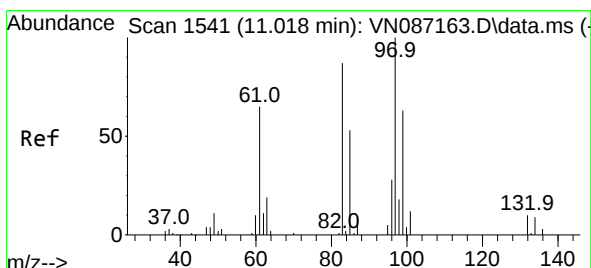
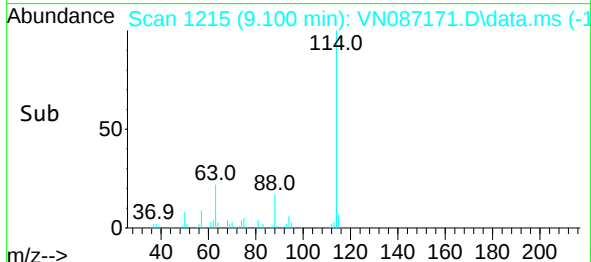
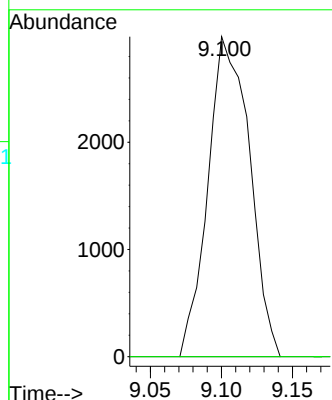
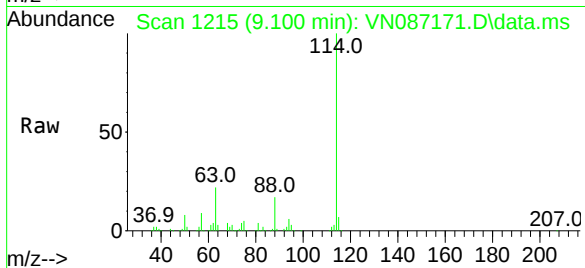
VN0625WBL01

Tgt Ion: 62 Resp: 6088

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 3.084 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

Tgt Ion: 97 Resp: 6963

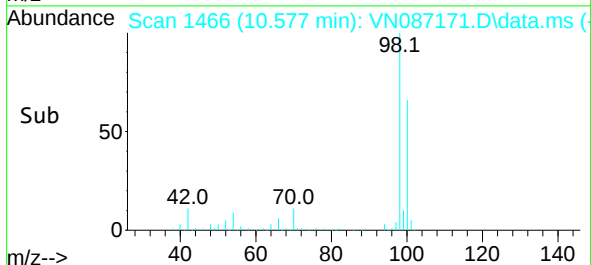
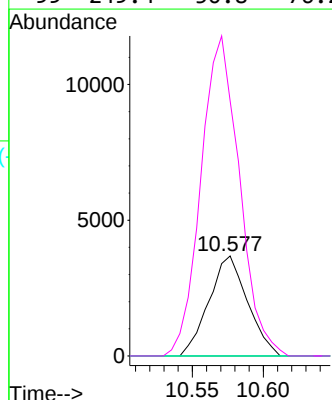
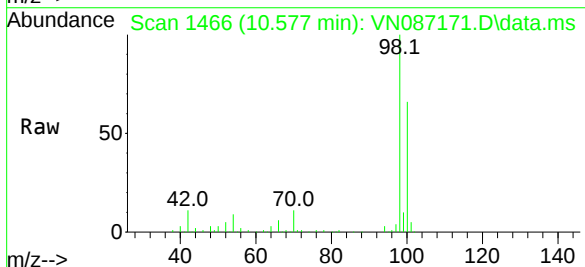
Ion Ratio Lower Upper

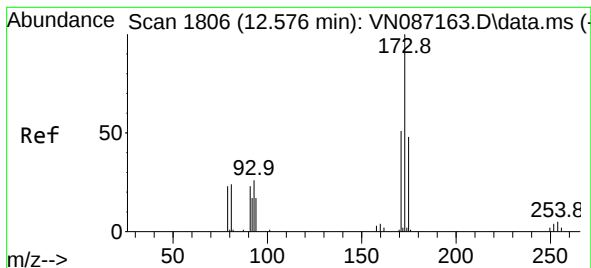
97 100

83 0.0 69.6 104.4#

85 0.0 42.0 63.0#

99 249.4 50.8 76.2#





#56

Bromoform

Concen: 0.208 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

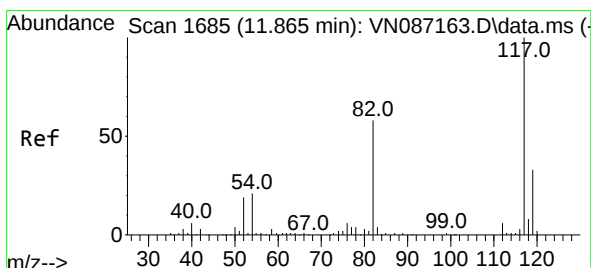
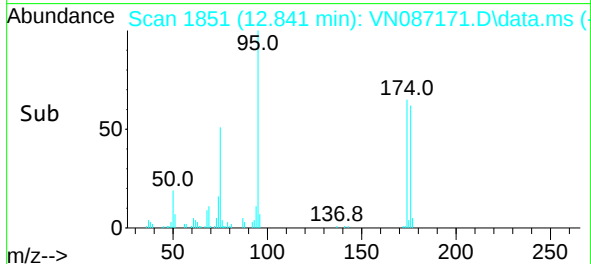
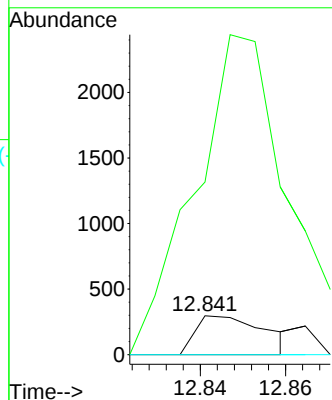
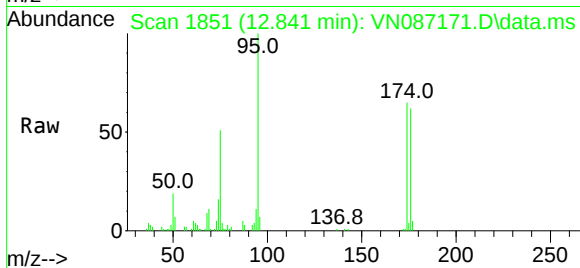
Instrument :

MSVOA_N

ClientSampleId :

VN0625WBL01

Tgt Ion:	173	Resp:	339
Ion Ratio	Lower	Upper	
173	100		
175	1105.6	38.7	58.1#
254	0.0	4.2	6.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

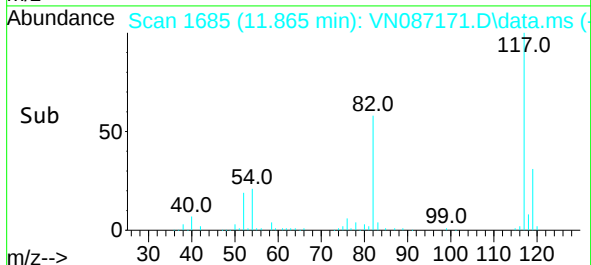
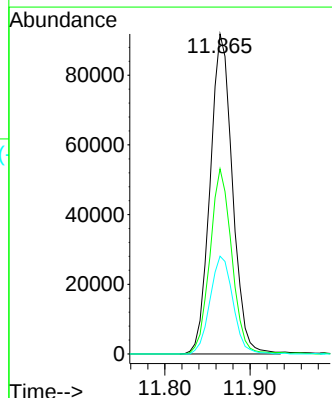
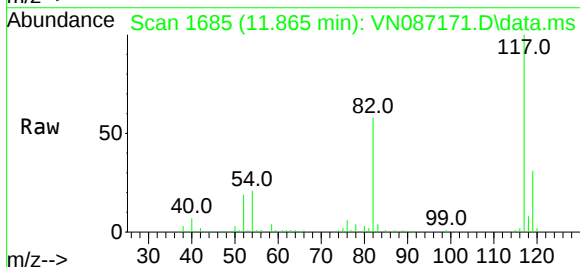
RT: 11.865 min Scan# 1685

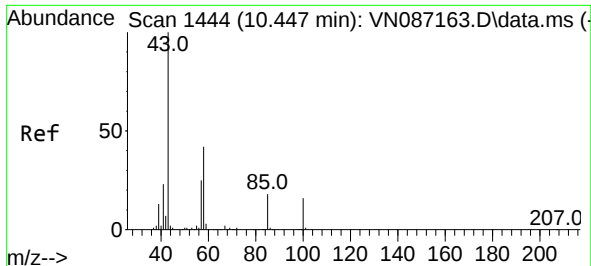
Delta R.T. 0.000 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

Tgt Ion:	117	Resp:	167117
Ion Ratio	Lower	Upper	
117	100		
82	56.4	45.4	68.2
119	31.3	26.2	39.4

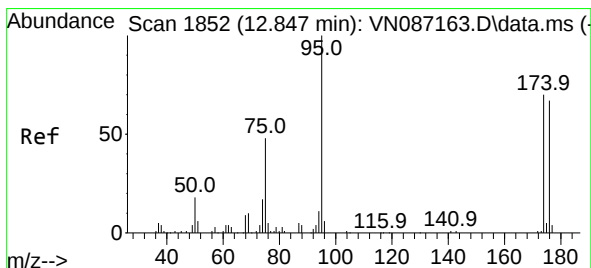
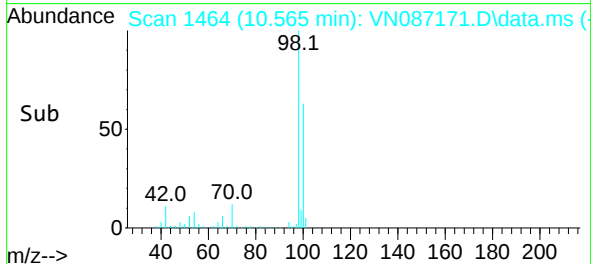
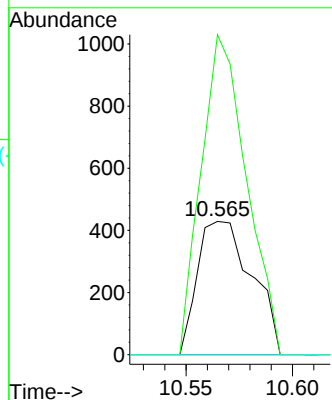
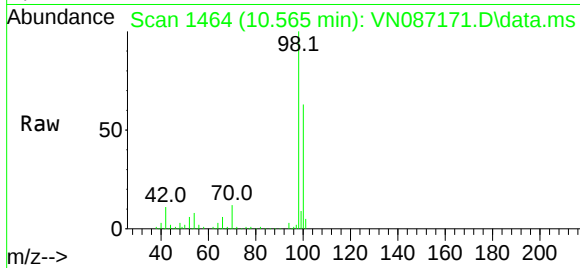




#58
4-Methyl-2-Pentanone
Concen: 0.227 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.118 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

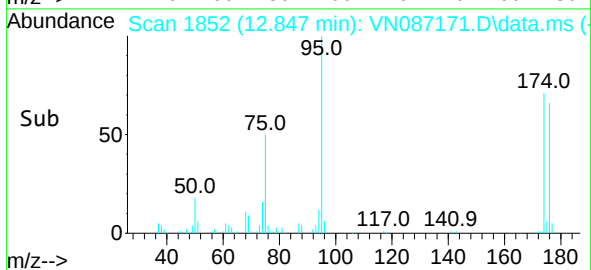
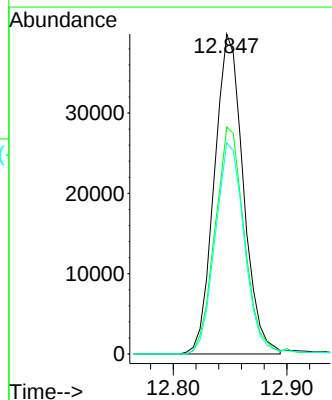
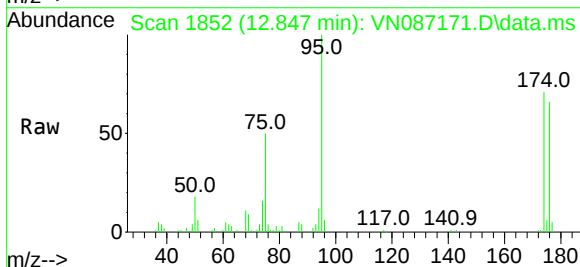
Instrument :
MSVOA_N
ClientSampleId :
VN0625WBL01

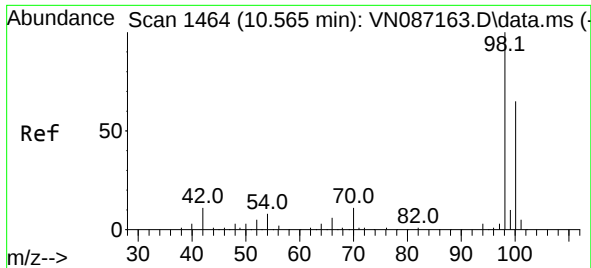
Tgt Ion	Ratio	Lower	Upper
43	100		
58	200.4	32.6	49.0#
85	0.0	14.6	22.0#



#60
4-Bromofluorobenzene
Concen: 27.368 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.4	54.5	81.7
176	66.7	51.9	77.9

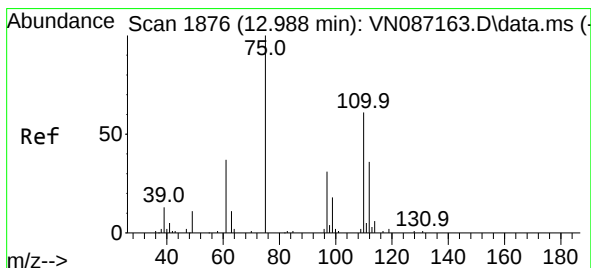
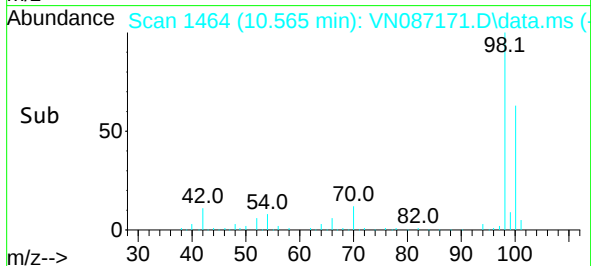
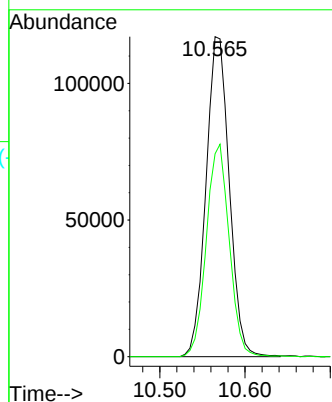
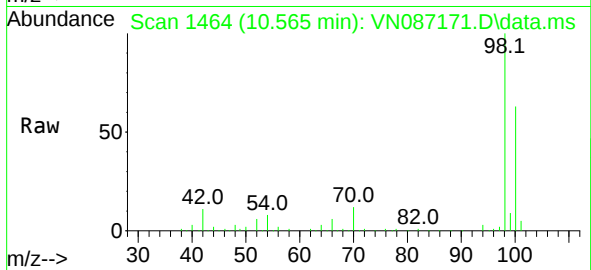




#63
Toluene-d8
Concen: 29.594 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

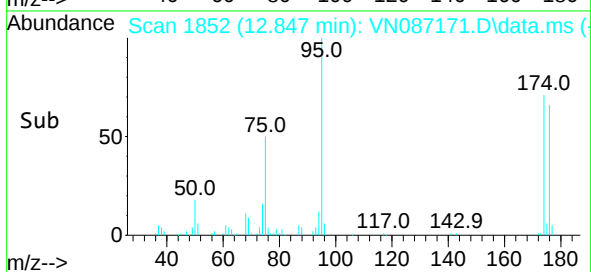
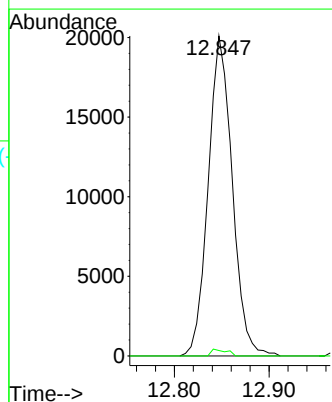
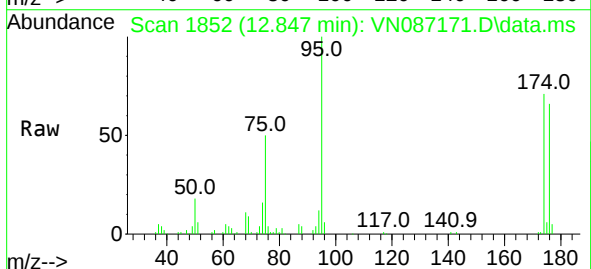
Instrument :
MSVOA_N
ClientSampleId :
VN0625WBL01

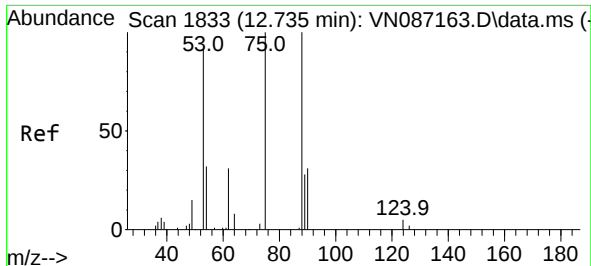
Tgt Ion: 98 Resp: 222058
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 12.159 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

Tgt Ion: 75 Resp: 35501
Ion Ratio Lower Upper
75 100
77 1.0 0.0 379.2





#77

t-1,4-Dichloro-2-butene

Concen: 27.411 ug/l

RT: 12.847 min Scan# 1833

Delta R.T. 0.112 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0625WBL01

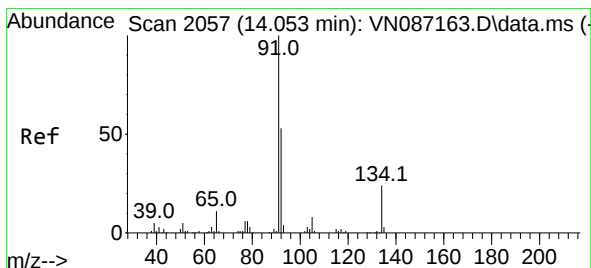
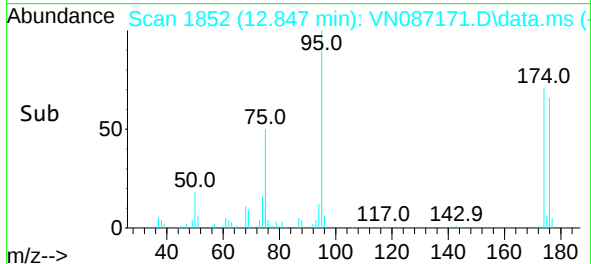
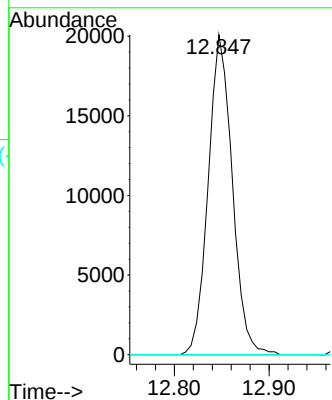
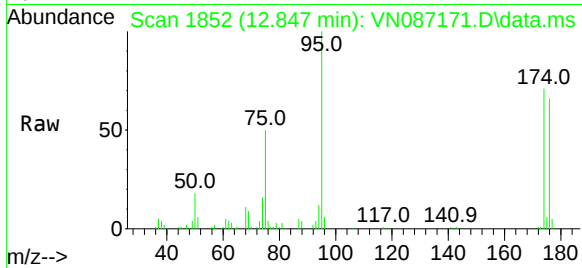
Tgt Ion: 75 Resp: 35501

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.6#

89 0.0 22.3 66.9#



#85

n-Butylbenzene

Concen: 0.228 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN087171.D

Acq: 25 Jun 2025 12:36

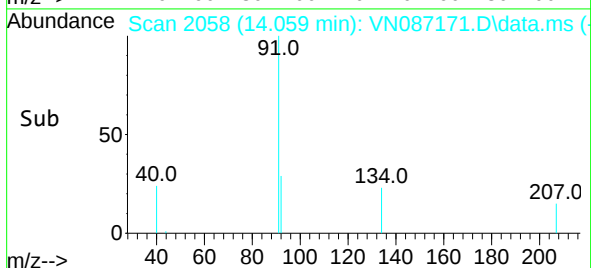
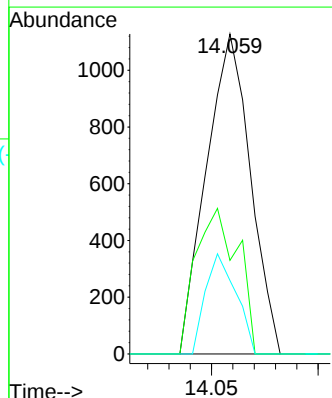
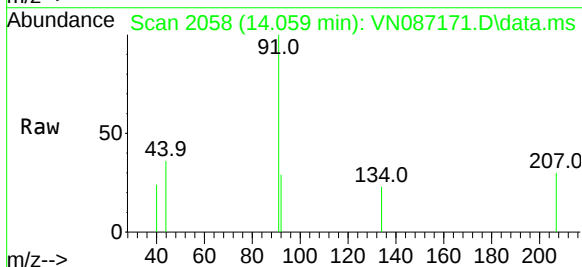
Tgt Ion: 91 Resp: 1620

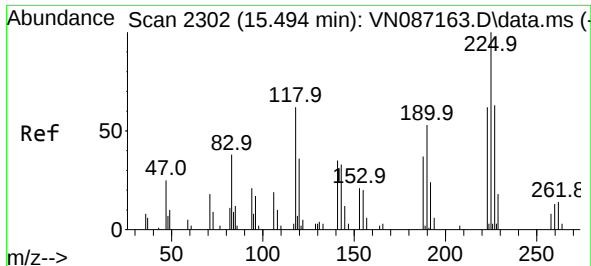
Ion Ratio Lower Upper

91 100

92 43.6 0.0 106.4

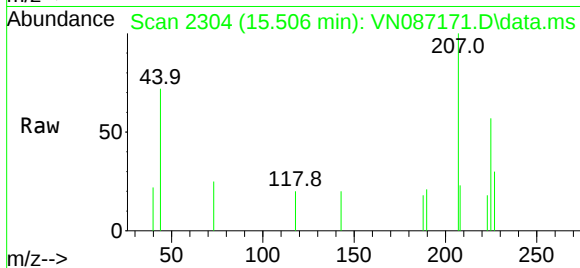
134 21.8 0.0 48.8



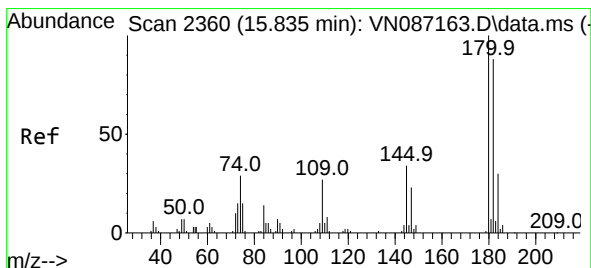
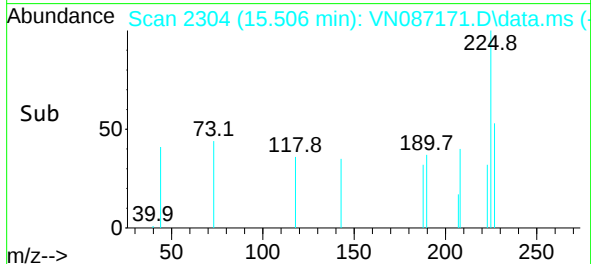
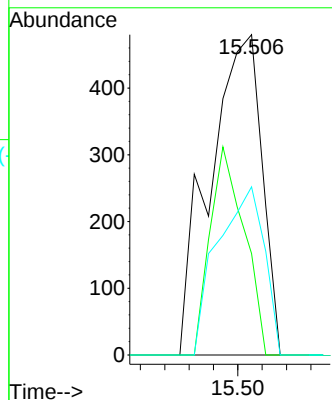


#90
Hexachlorobutadiene
Concen: 1.025 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0625WBL01



Tgt Ion:225 Resp: 713
Ion Ratio Lower Upper
225 100
223 42.5 0.0 134.2
227 47.1 0.0 122.6



#92
1,2,3-Trichlorobenzene
Concen: 0.344 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.447 min
Lab File: VN087171.D
Acq: 25 Jun 2025 12:36

Tgt Ion:180 Resp: 807
Ion Ratio Lower Upper
180 100
182 82.8 0.0 185.4
145 17.7 0.0 69.0

