

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080625\
 Data File : VN087471.D
 Acq On : 06 Aug 2025 10:56
 Operator : JC\MD
 Sample : VN0806WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBL01

Quant Time: Aug 07 03:33:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

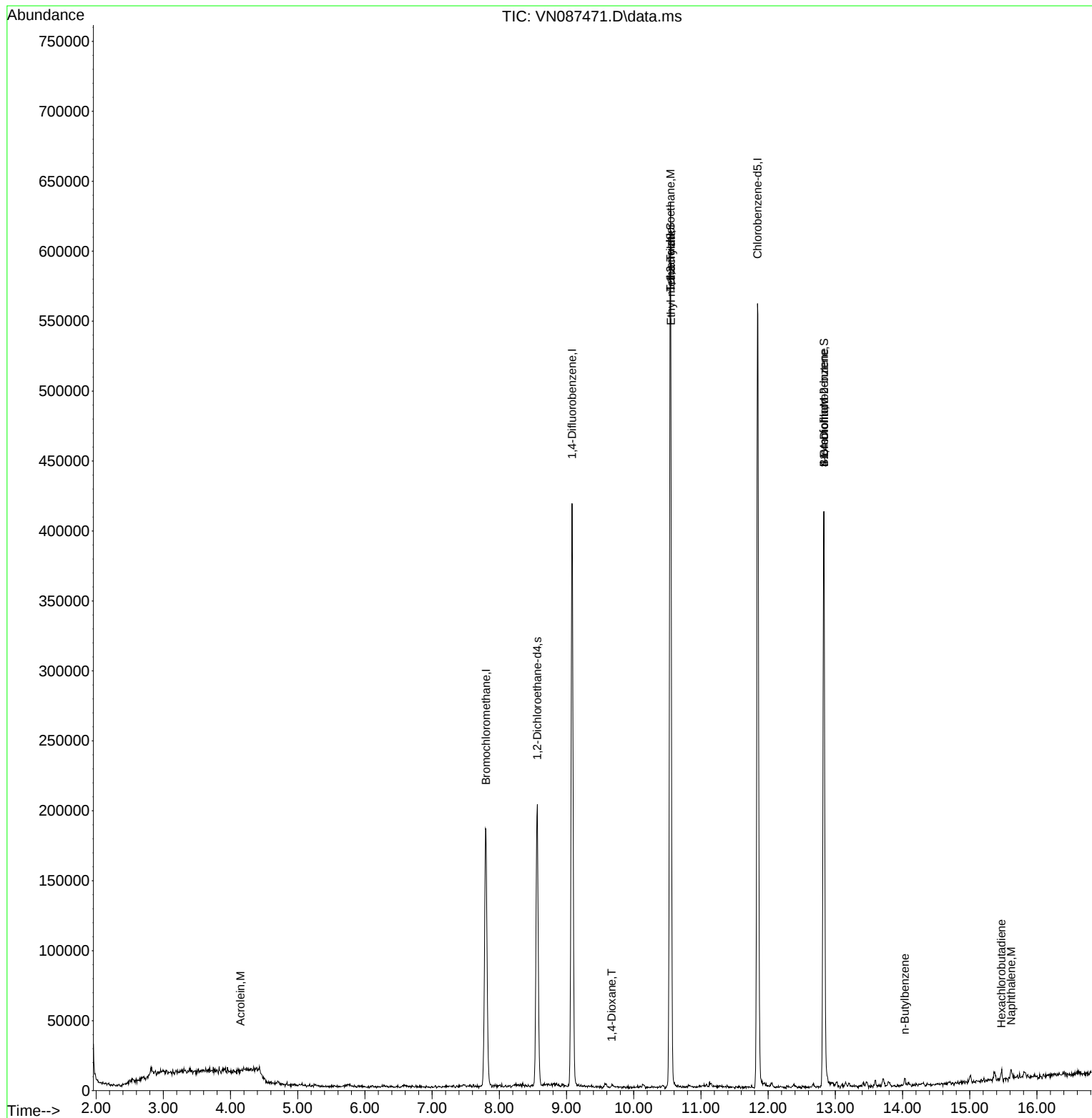
Internal Standards						
1) Bromochloromethane	7.800	128	60753	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	332450	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	296861	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	170978	30.512	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.700%
60) 4-Bromofluorobenzene	12.829	95	143305	28.051	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.500%
63) Toluene-d8	10.547	98	410507	30.053	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.167%
Target Compounds						
					Qvalue	
13) Acrolein	4.148	56	478	0.510	ug/l	90
45) 1,4-Dioxane	9.671	88	319	3.823	ug/l #	10
50) 1,1,2-Trichloroethane	10.547	97	14154	3.402	ug/l #	1
51) Ethyl methacrylate	10.553	69	1741	0.238	ug/l	74
56) Bromoform	12.829	173	2050	0.645	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	84876	37.492	ug/l #	4
85) n-Butylbenzene	14.035	91	4154	0.260	ug/l	86
90) Hexachlorobutadiene	15.470	225	1094	0.596	ug/l	78
91) Naphthalene	15.617	128	5659	0.315	ug/l #	77

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

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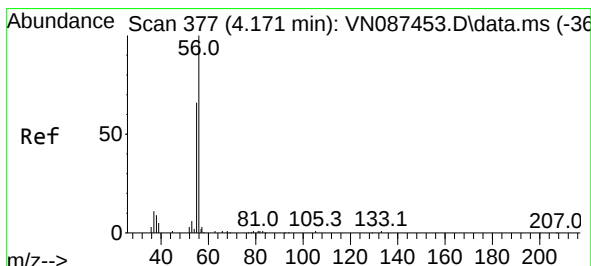
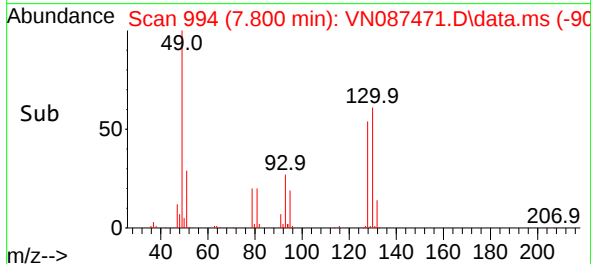
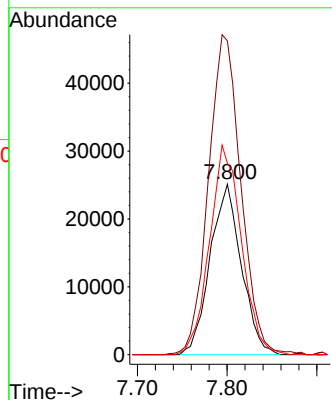
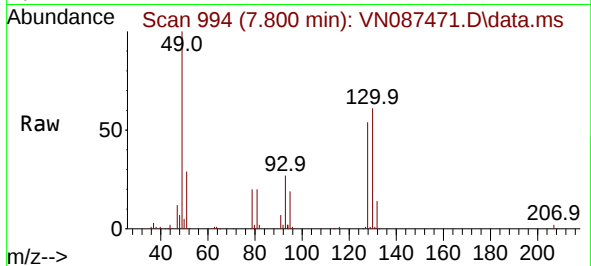




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

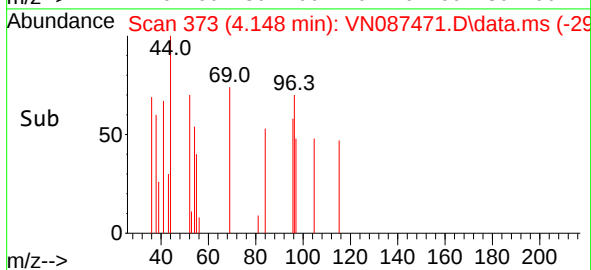
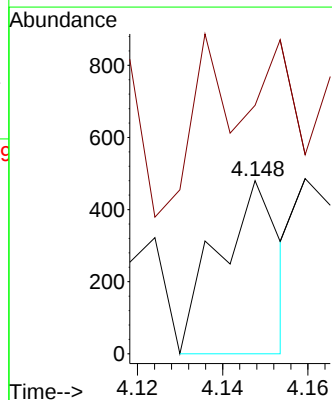
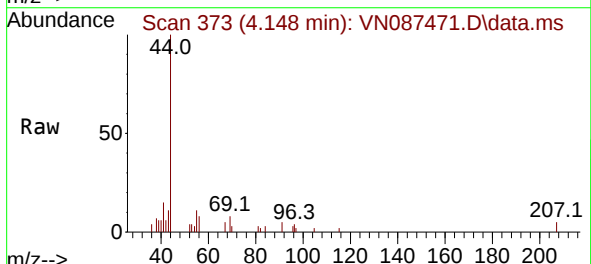
Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL01

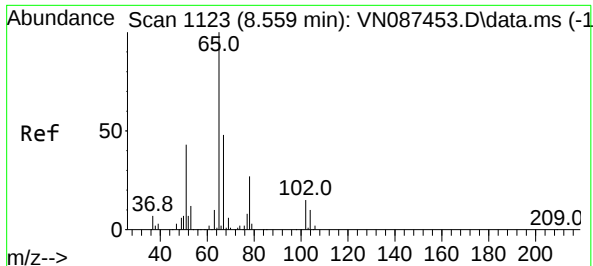
Tgt Ion:128 Resp: 60753
Ion Ratio Lower Upper
128 100
49 195.0 0.0 494.8
130 125.4 0.0 321.5



#13
Acrolein
Concen: 0.510 ug/l
RT: 4.148 min Scan# 373
Delta R.T. -0.023 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Tgt Ion: 56 Resp: 478
Ion Ratio Lower Upper
56 100
55 63.2 57.4 86.0





#27

1,2-Dichloroethane-d4

Concen: 30.512 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087471.D

Acq: 06 Aug 2025 10:56

Instrument :

MSVOA_N

ClientSampleId :

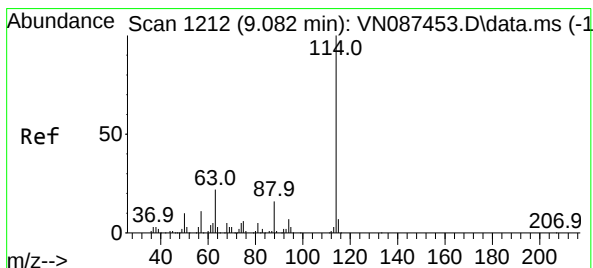
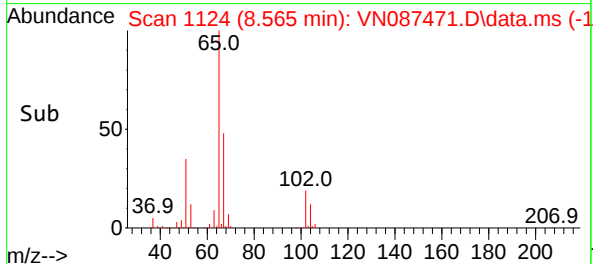
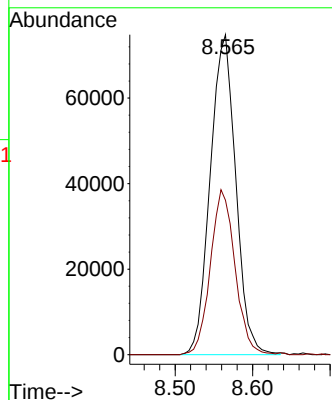
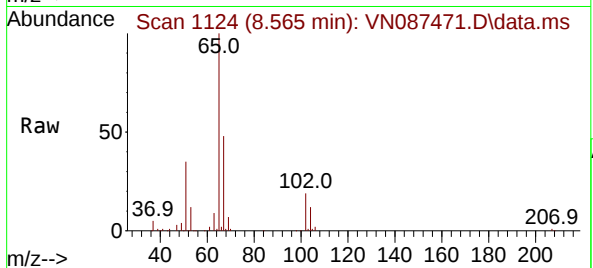
VN0806WBL01

Tgt Ion: 65 Resp: 170978

Ion Ratio Lower Upper

65 100

67 49.9 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087471.D

Acq: 06 Aug 2025 10:56

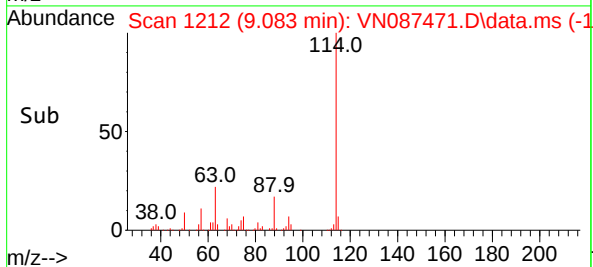
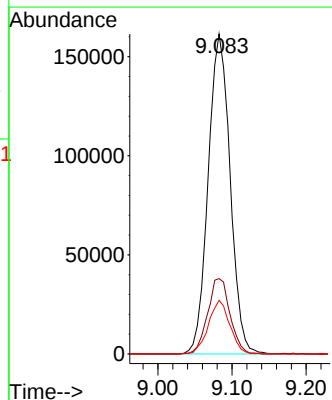
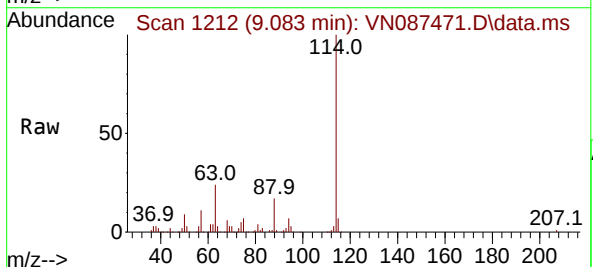
Tgt Ion: 114 Resp: 332450

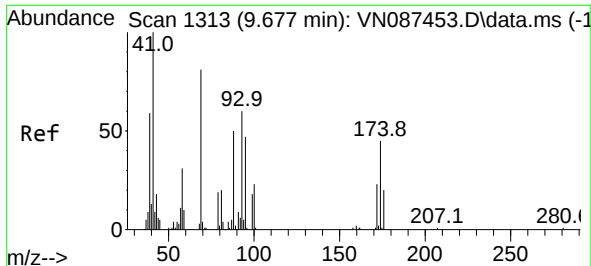
Ion Ratio Lower Upper

114 100

63 23.9 18.9 28.3

88 16.3 13.1 19.7

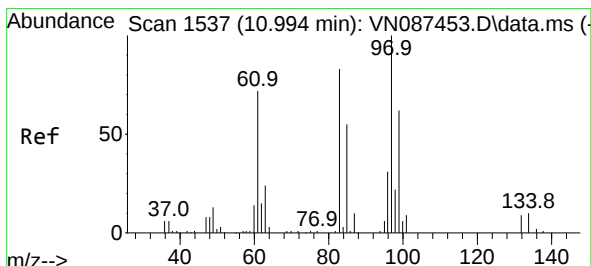
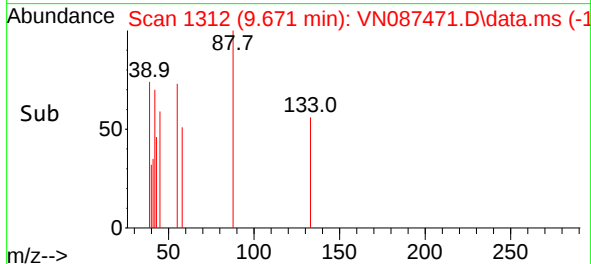
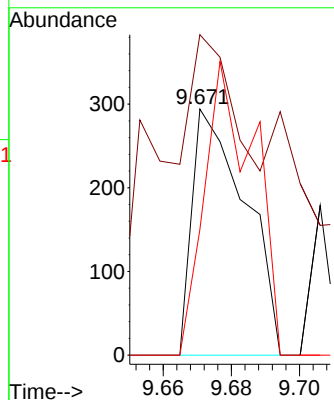
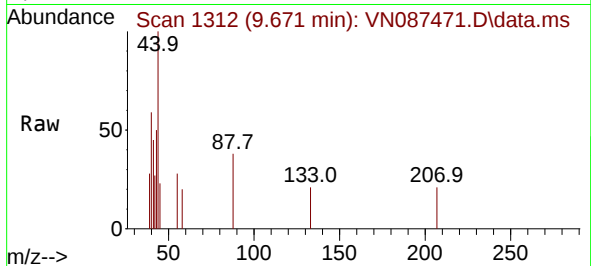




#45
1,4-Dioxane
Concen: 3.823 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

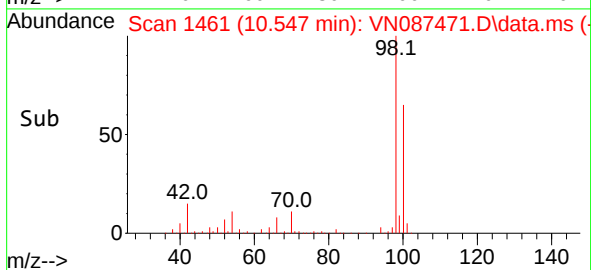
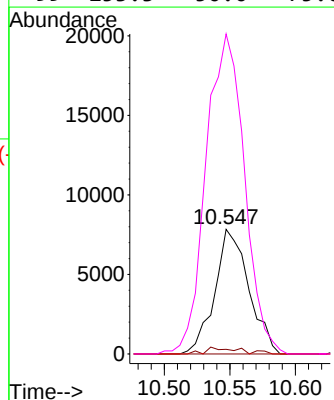
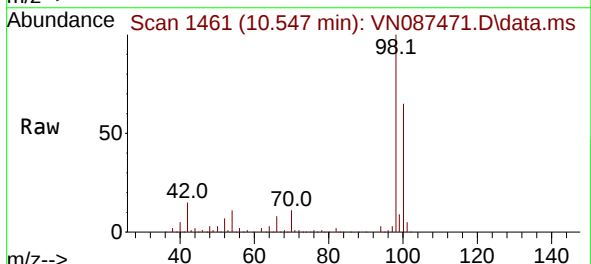
Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL01

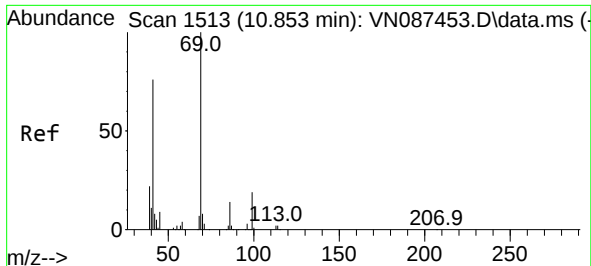
Tgt Ion: 88 Resp: 319
Ion Ratio Lower Upper
88 100
43 134.5 24.1 36.1#
58 110.7 57.2 85.8#



#50
1,1,2-Trichloroethane
Concen: 3.402 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.447 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Tgt Ion: 97 Resp: 14154
Ion Ratio Lower Upper
97 100
83 3.8 66.2 99.2#
85 0.0 43.9 65.9#
99 253.3 50.0 75.0#

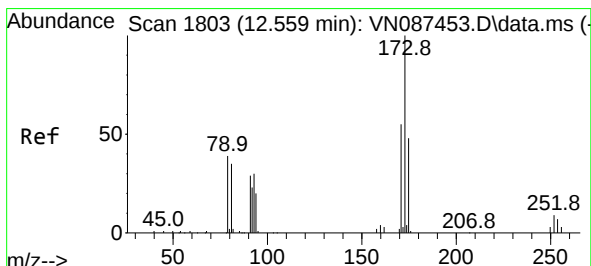
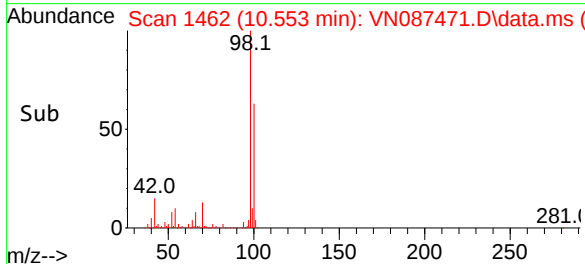
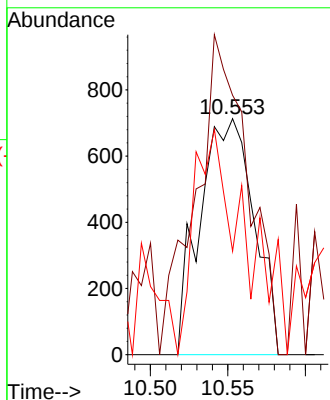
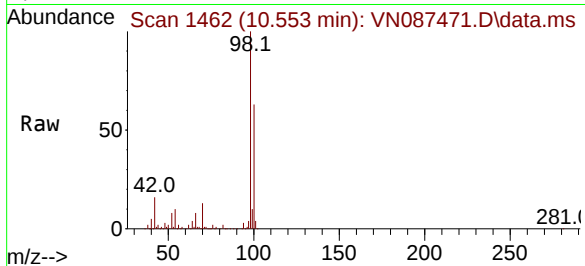




#51
Ethyl methacrylate
Concen: 0.238 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.300 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

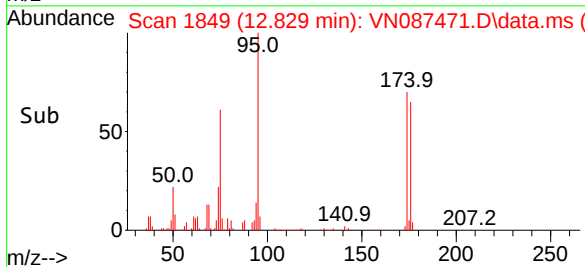
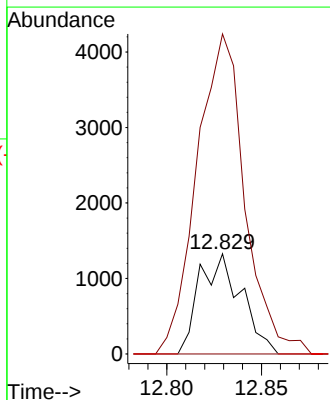
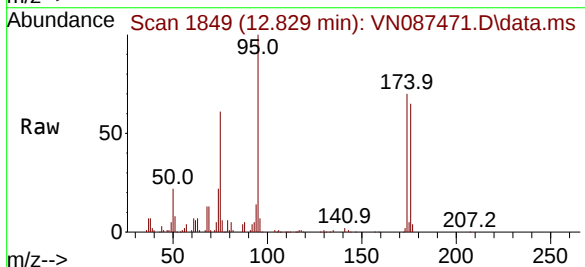
Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL01

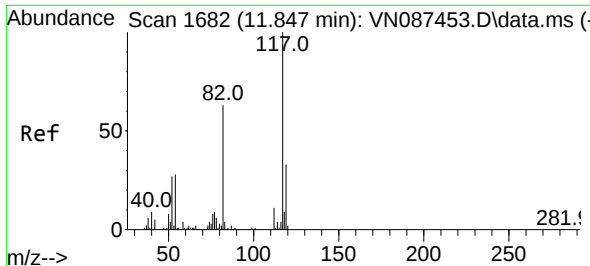
Tgt Ion: 69 Resp: 1741
Ion Ratio Lower Upper
69 100
41 110.0 38.0 114.1
39 43.9 23.2 69.5



#56
Bromoform
Concen: 0.645 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Tgt Ion:173 Resp: 2050
Ion Ratio Lower Upper
173 100
175 361.8 38.8 58.2#
254 0.0 3.9 5.9#

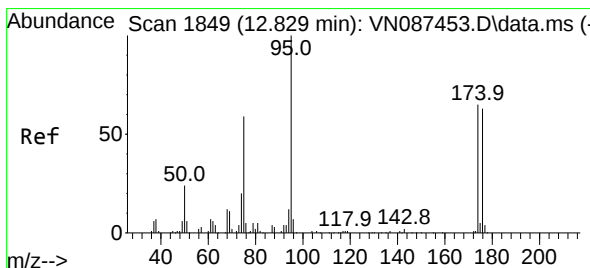
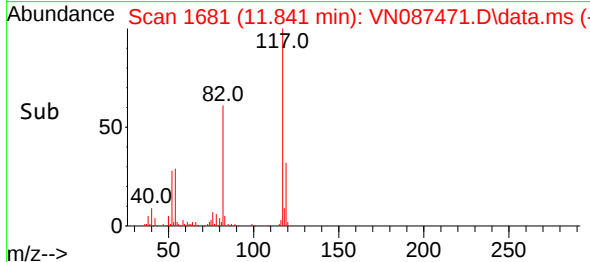
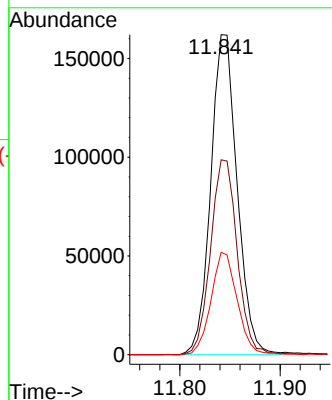
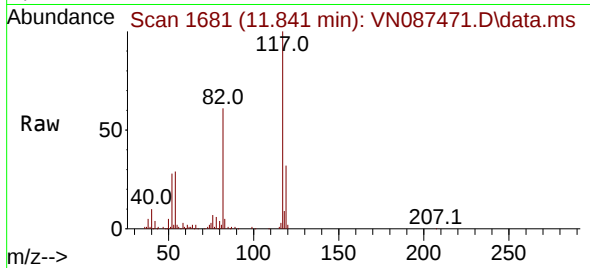




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

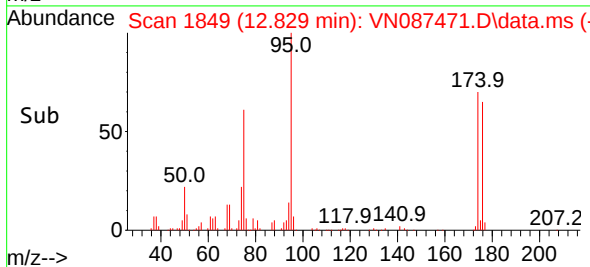
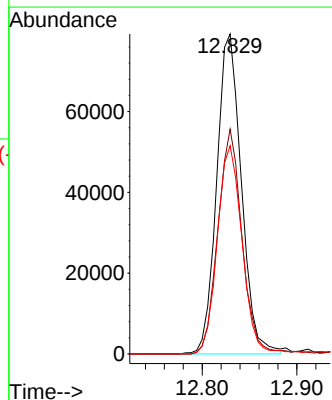
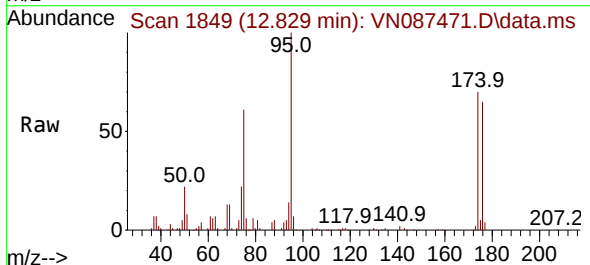
Instrument :
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ClientSampleId :
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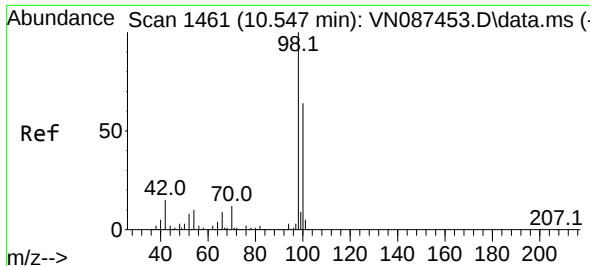
Tgt Ion:117 Resp: 296861
Ion Ratio Lower Upper
117 100
82 61.3 49.2 73.8
119 31.7 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 28.051 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Tgt Ion: 95 Resp: 143305
Ion Ratio Lower Upper
95 100
174 68.2 52.3 78.5
176 64.8 49.8 74.8

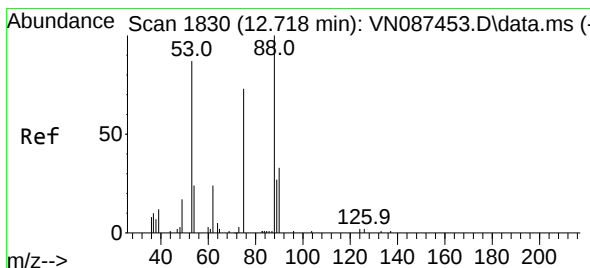
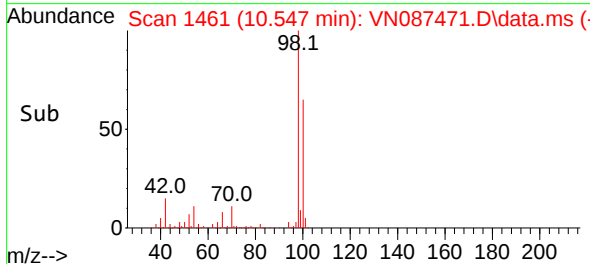
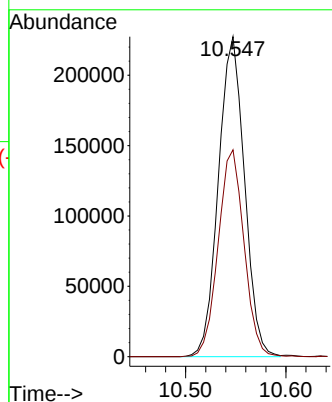
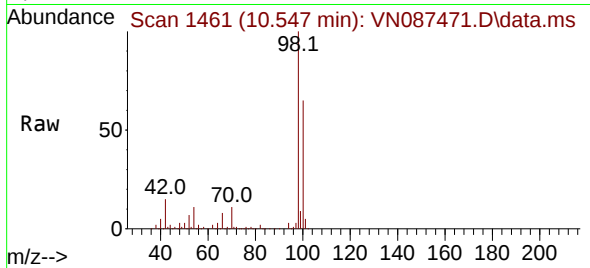




#63
Toluene-d8
Concen: 30.053 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

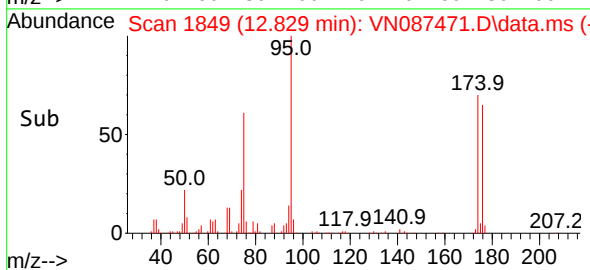
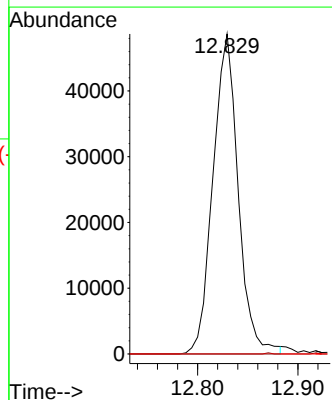
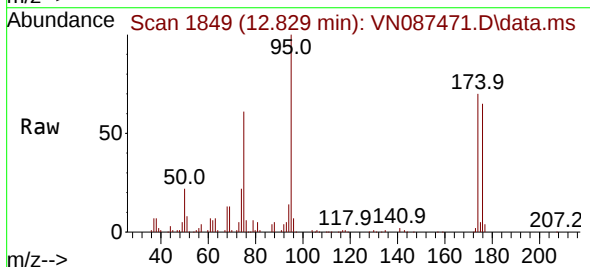
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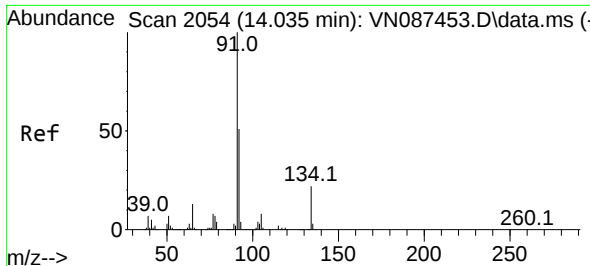
Tgt Ion: 98 Resp: 410507
Ion Ratio Lower Upper
98 100
100 64.1 50.5 75.7



#77
t-1,4-Dichloro-2-butene
Concen: 37.492 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Tgt Ion: 75 Resp: 84876
Ion Ratio Lower Upper
75 100
53 0.3 59.0 176.8#
89 0.0 22.1 66.5#

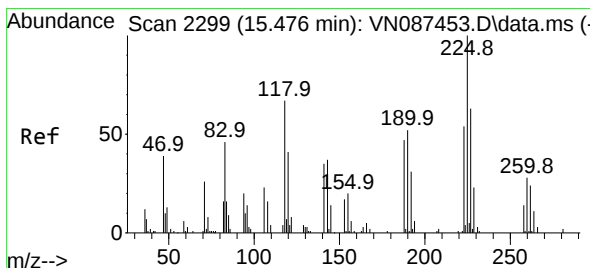
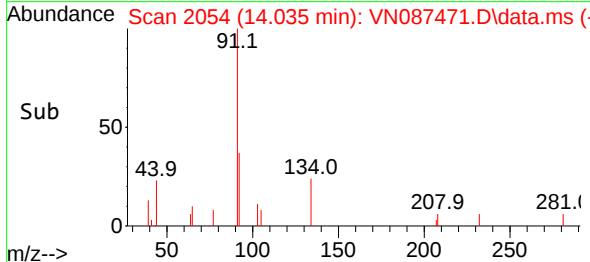
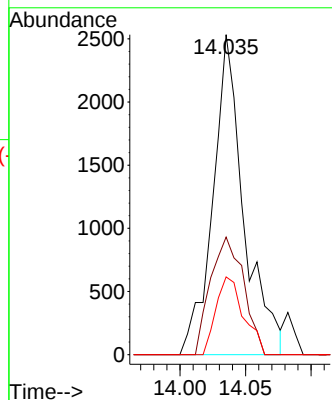
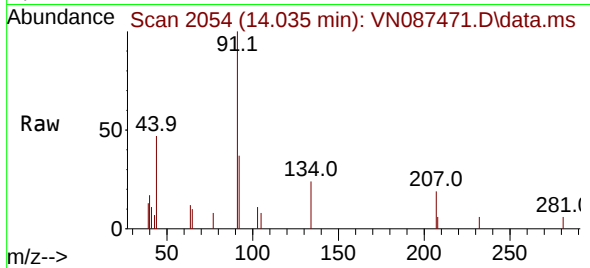




#85
n-Butylbenzene
Concen: 0.260 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

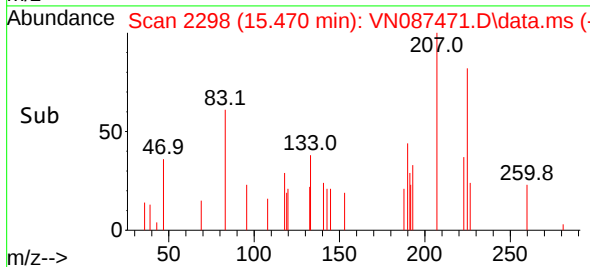
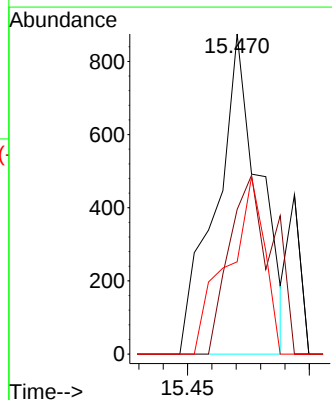
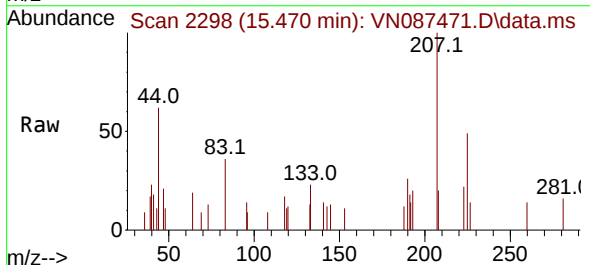
Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL01

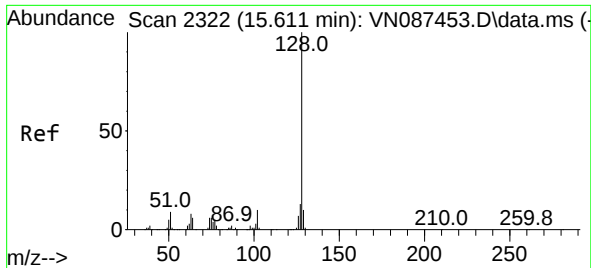
Tgt Ion: 91	Resp:	4154
Ion	Ratio	Lower Upper
91	100	
92	39.4	0.0 106.6
134	21.8	0.0 44.4



#90
Hexachlorobutadiene
Concen: 0.596 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

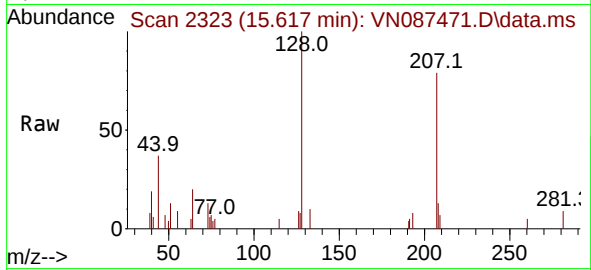
Tgt Ion: 225	Resp:	1094
Ion	Ratio	Lower Upper
225	100	
223	55.2	0.0 116.0
227	32.8	0.0 127.0





#91
Naphthalene
Concen: 0.315 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087471.D
Acq: 06 Aug 2025 10:56

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL01



Tgt Ion:	128	Resp:	5659
Ion	Ratio	Lower	Upper
128	100		
127	3.0	10.2	15.4#
129	2.7	8.9	13.3#

