

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
 Data File : VN087814.D
 Acq On : 12 Sep 2025 11:40
 Operator : JC\MD
 Sample : VN0912WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0912WBL01

Quant Time: Sep 12 22:51:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

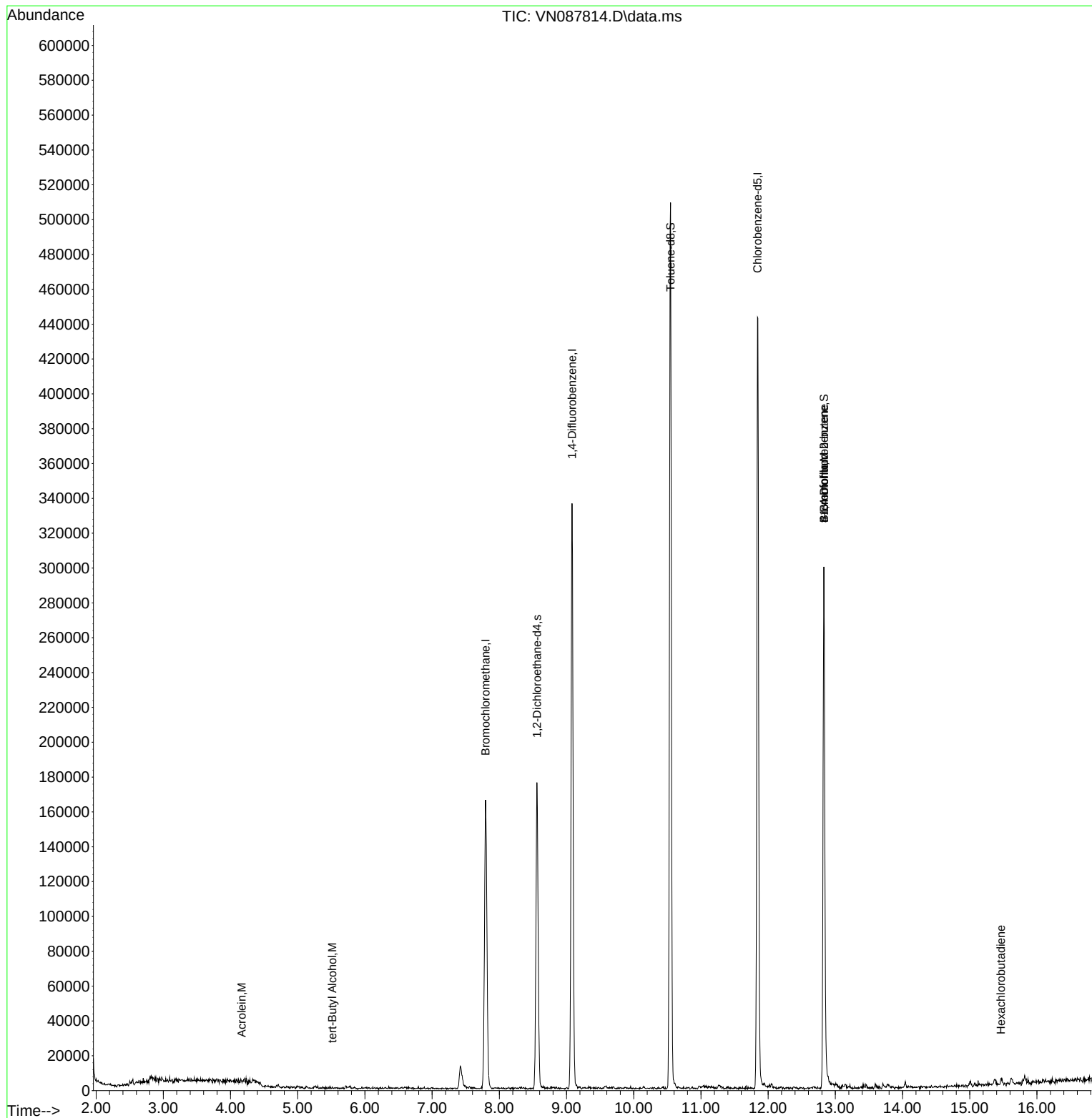
Internal Standards						
1) Bromochloromethane	7.795	128	57083	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	279905	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	254454	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142590	29.242	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.467%
60) 4-Bromofluorobenzene	12.830	95	105772	25.852	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.167%
63) Toluene-d8	10.547	98	349272	29.516	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.400%
Target Compounds						
					Qvalue	
13) Acrolein	4.165	56	387	0.409	ug/l #	1
23) tert-Butyl Alcohol	5.512	59	222	0.275	ug/l #	100
56) Bromoform	12.830	173	1210	0.457	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.830	75	60814	33.685	ug/l #	14
90) Hexachlorobutadiene	15.465	225	383	0.298	ug/l	76

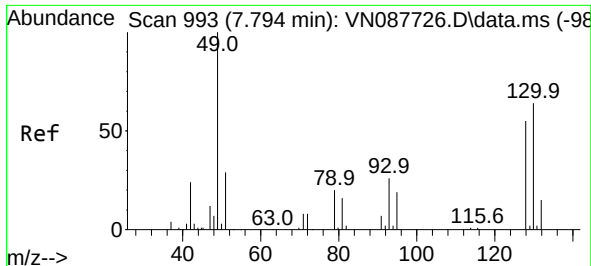
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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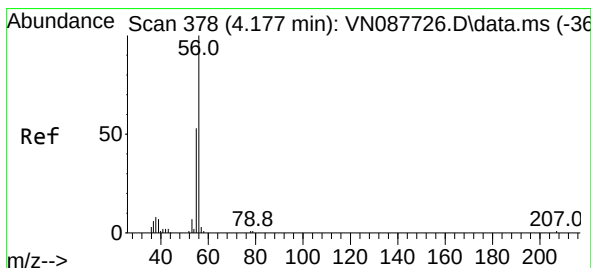
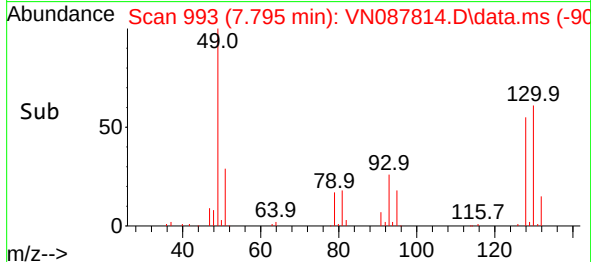
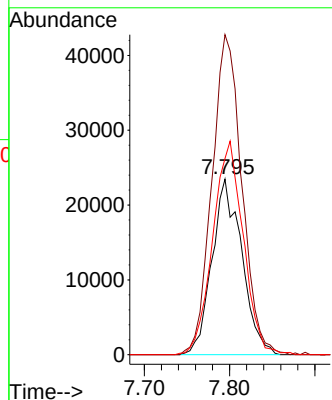
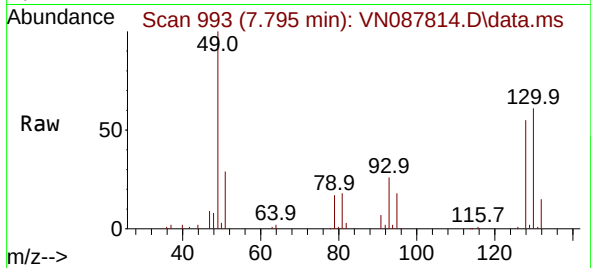




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.795 min Scan# 993
Delta R.T. 0.001 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

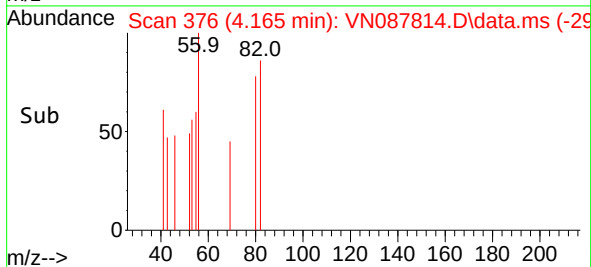
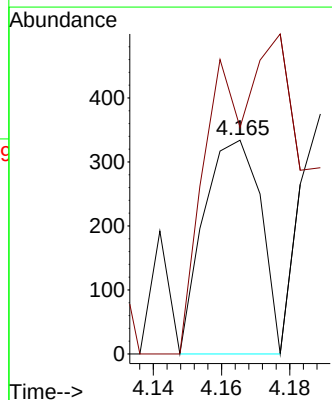
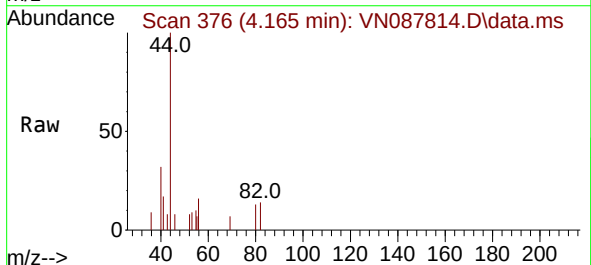
Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

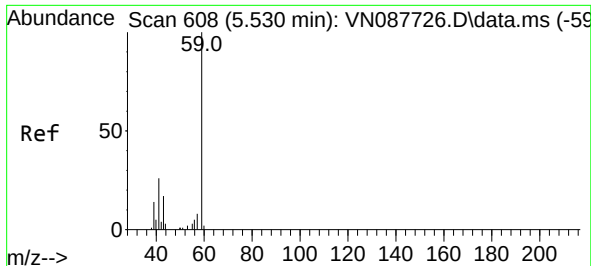
Tgt Ion:128 Resp: 57083
Ion Ratio Lower Upper
128 100
49 182.6 0.0 464.3
130 123.5 0.0 300.5



#13
Acrolein
Concen: 0.409 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 56 Resp: 387
Ion Ratio Lower Upper
56 100
55 97.9 28.6 42.8#

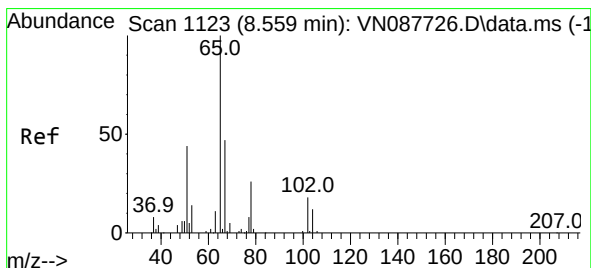
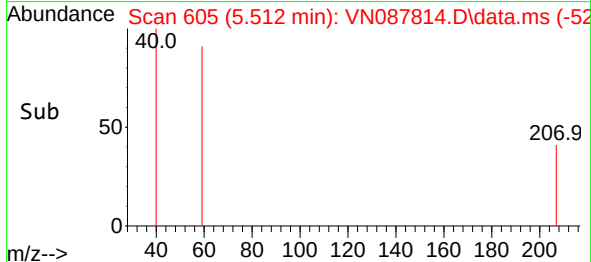
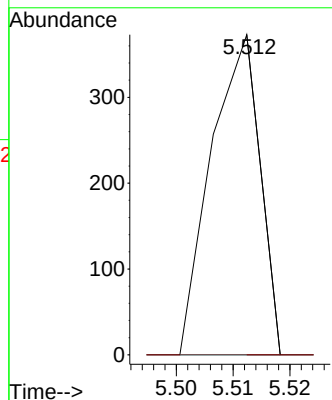
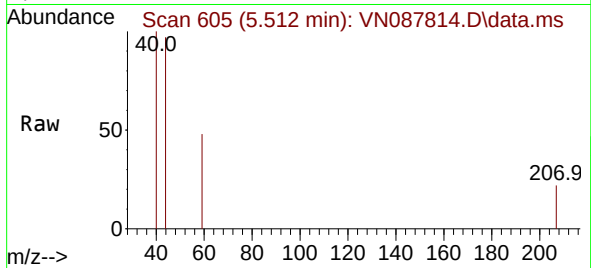




#23
tert-Butyl Alcohol
Concen: 0.275 ug/l
RT: 5.512 min Scan# 608
Delta R.T. -0.017 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

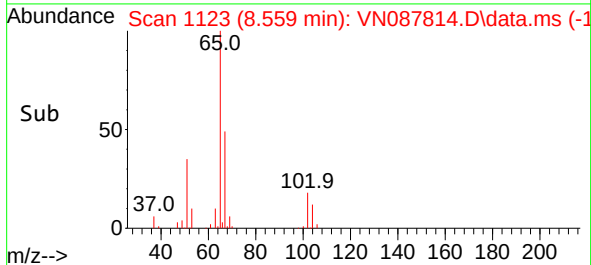
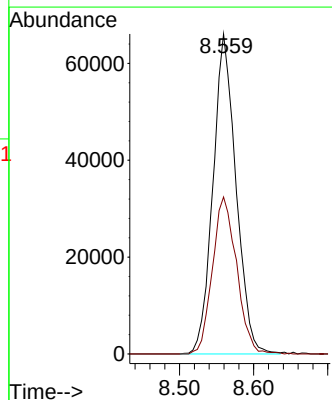
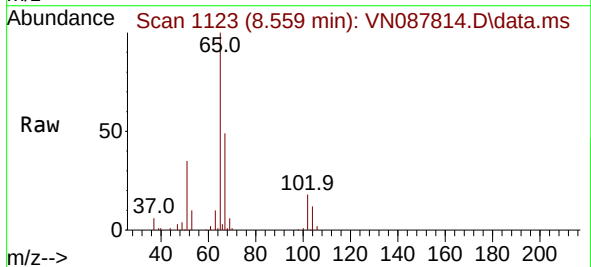
Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

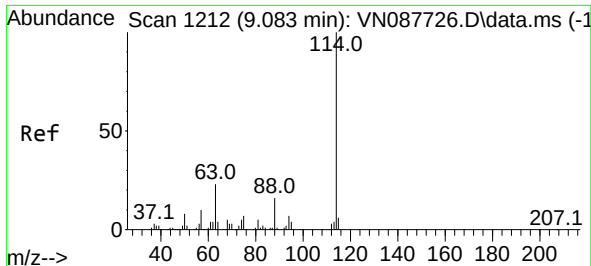
Tgt Ion: 59 Resp: 222
Ion Ratio Lower Upper
59 100
52 23.9 0.0 0.0#



#27
1,2-Dichloroethane-d4
Concen: 29.242 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 65 Resp: 142590
Ion Ratio Lower Upper
65 100
67 51.3 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087814.D

Acq: 12 Sep 2025 11:40

Instrument :

MSVOA_N

ClientSampleId :

VN0912WBL01

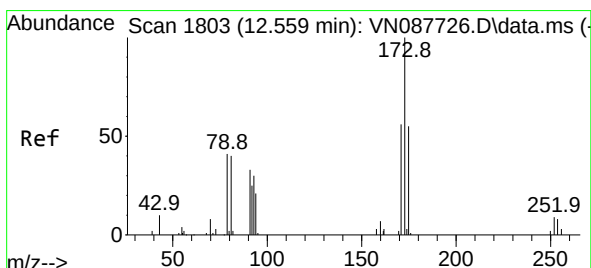
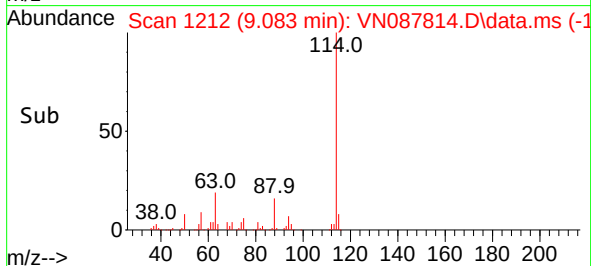
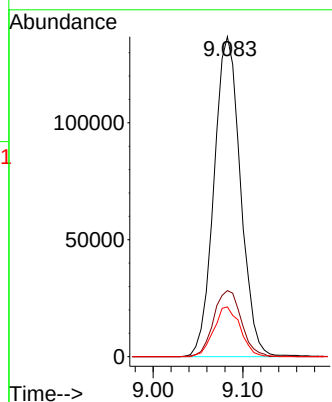
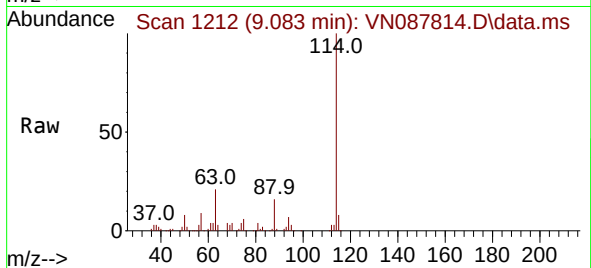
Tgt Ion:114 Resp: 279905

Ion Ratio Lower Upper

114 100

63 21.7 18.3 27.5

88 15.6 12.4 18.6



#56

Bromoform

Concen: 0.457 ug/l

RT: 12.830 min Scan# 1849

Delta R.T. 0.271 min

Lab File: VN087814.D

Acq: 12 Sep 2025 11:40

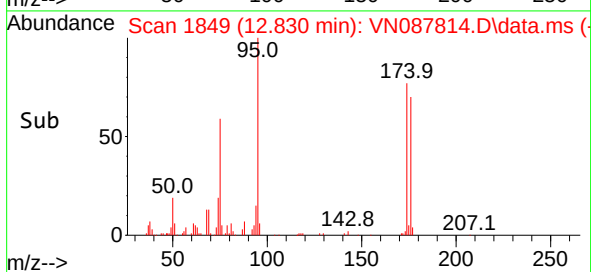
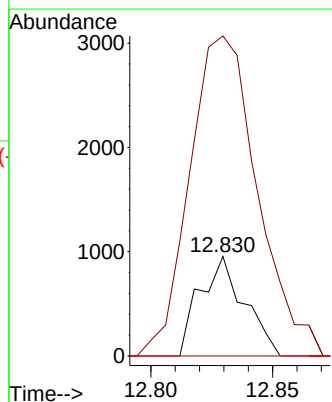
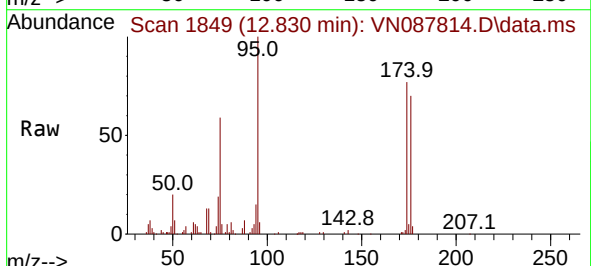
Tgt Ion:173 Resp: 1210

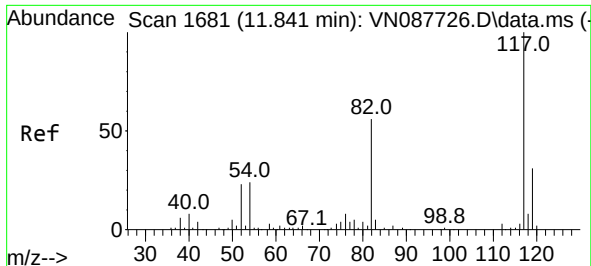
Ion Ratio Lower Upper

173 100

175 492.1 39.8 59.6#

254 0.0 6.2 9.4#

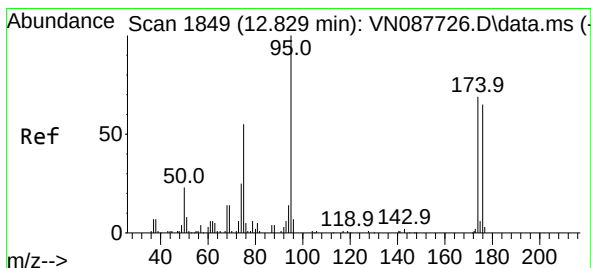
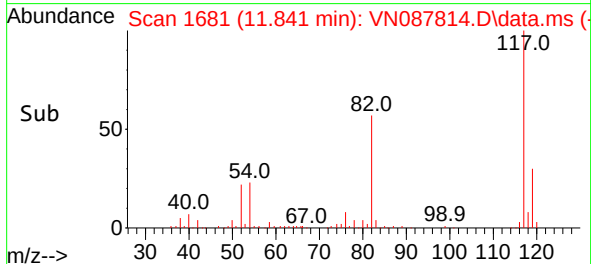
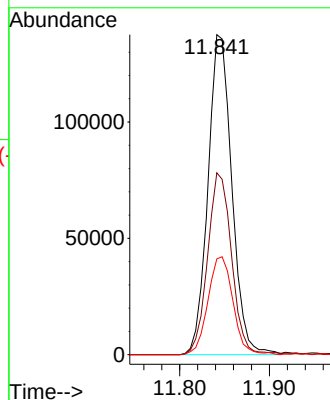
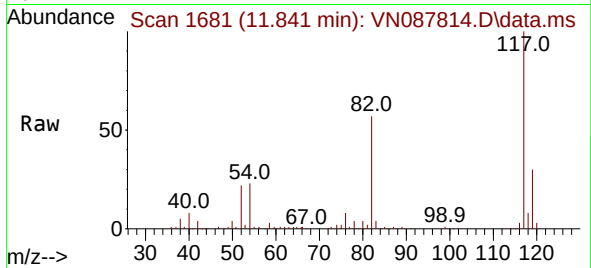




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

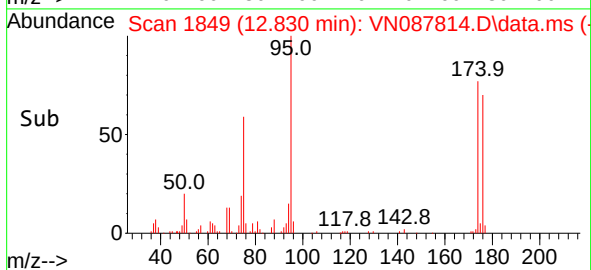
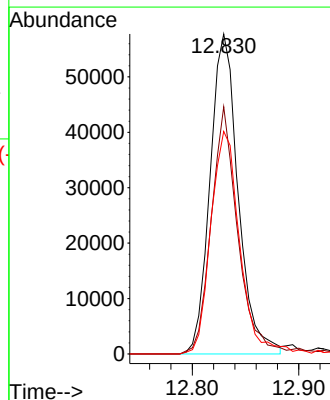
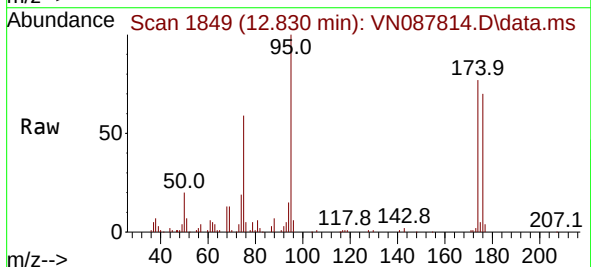
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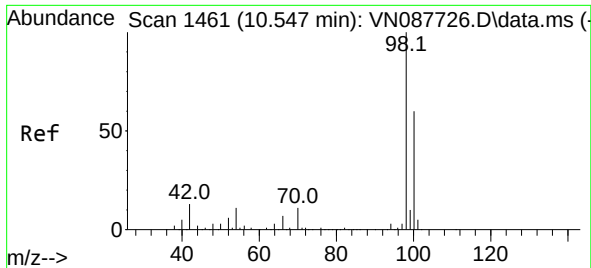
Tgt Ion:117 Resp: 254454
Ion Ratio Lower Upper
117 100
82 57.1 45.9 68.9
119 31.9 25.3 37.9



#60
4-Bromofluorobenzene
Concen: 25.852 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 95 Resp: 105772
Ion Ratio Lower Upper
95 100
174 72.5 55.4 83.0
176 70.8 51.5 77.3

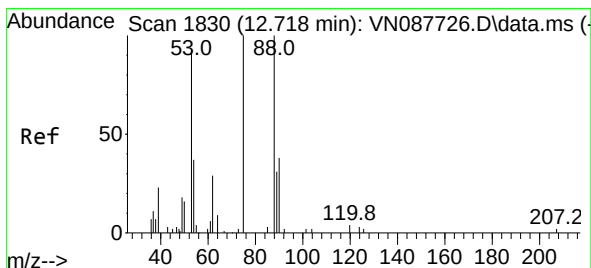
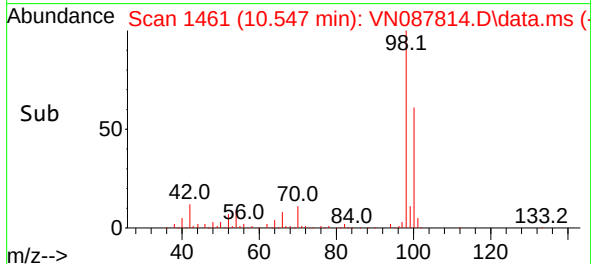
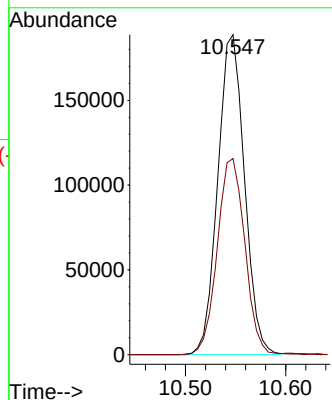
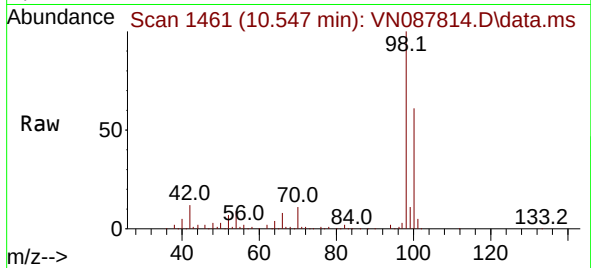




#63
Toluene-d8
Concen: 29.516 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

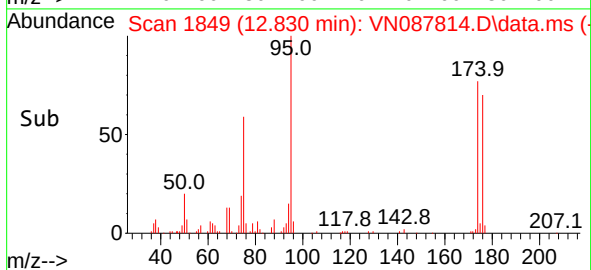
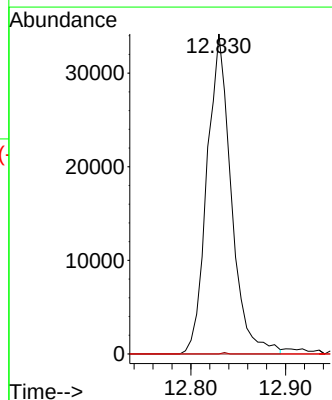
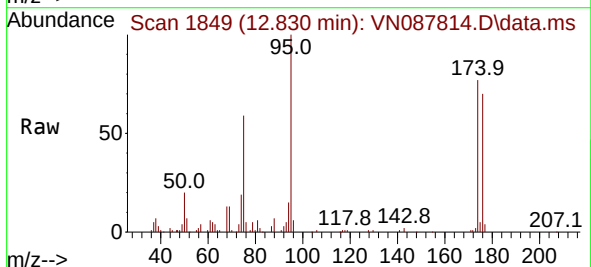
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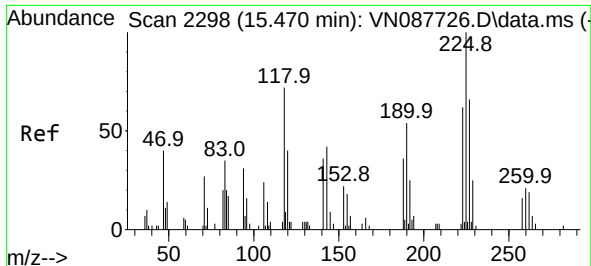
Tgt Ion: 98 Resp: 349272
Ion Ratio Lower Upper
98 100
100 63.3 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 33.685 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 75 Resp: 60814
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 18.8 56.3#





#90

Hexachlorobutadiene

Concen: 0.298 ug/l

RT: 15.465 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087814.D

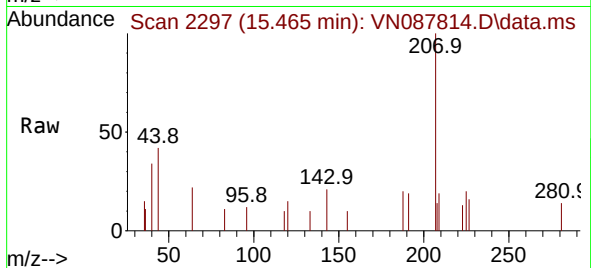
Acq: 12 Sep 2025 11:40

Instrument :

MSVOA_N

ClientSampleId :

VN0912WBL01



Tgt Ion:225 Resp: 383

Ion Ratio Lower Upper

225 100

223 39.2 0.0 118.2

227 52.2 0.0 139.0

