

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072225\
 Data File : VN087395.D
 Acq On : 22 Jul 2025 17:28
 Operator : JC\MD
 Sample : Q2669-01DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 23 05:58:08 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)

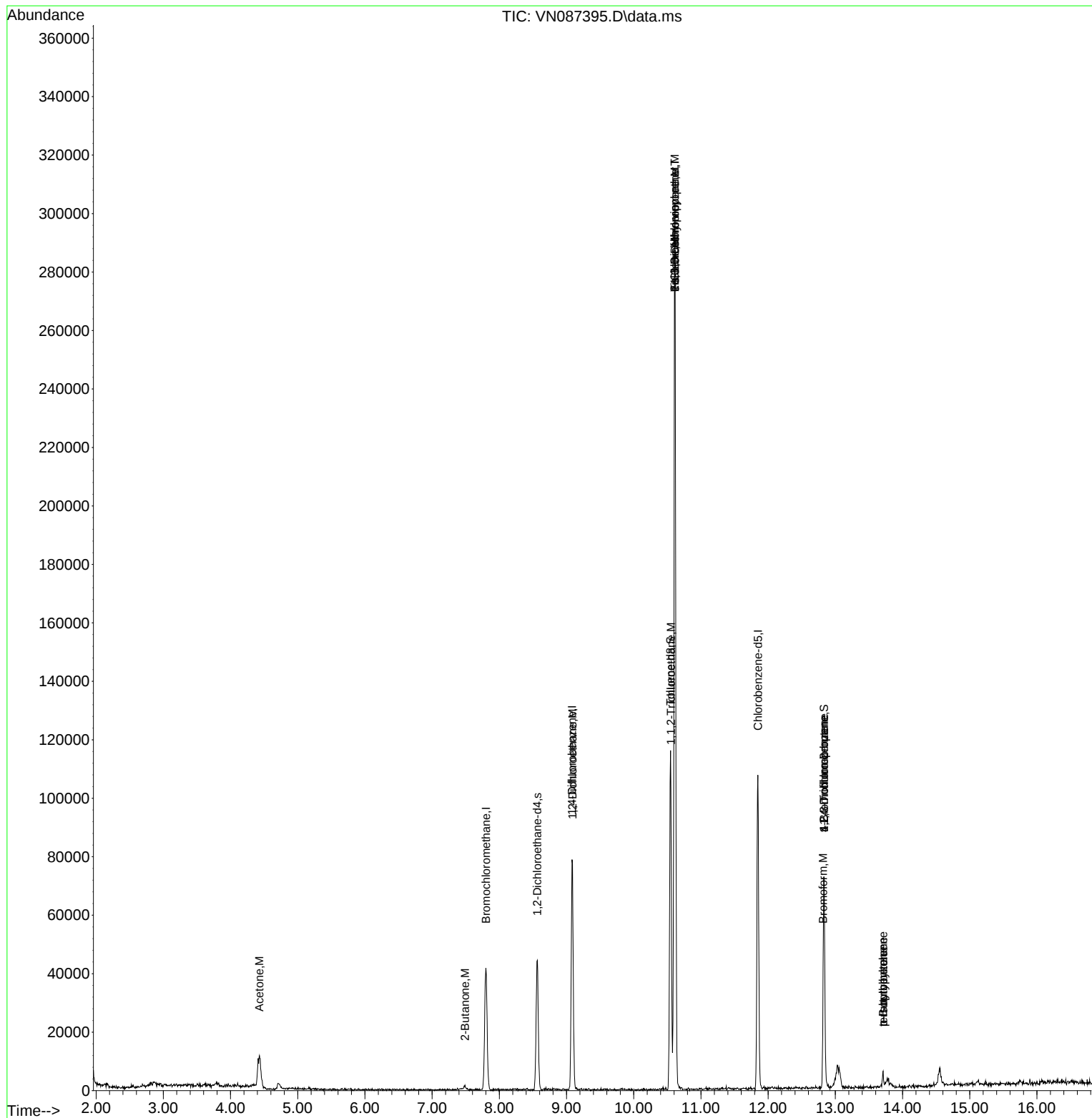
Internal Standards						
1) Bromochloromethane	7.800	128	14462	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.083	114	67398	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	62271	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	38786	35.595	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 118.667%#	
60) 4-Bromofluorobenzene	12.829	95	25397	26.430	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	= 88.100%	
63) Toluene-d8	10.547	98	78400	28.040	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	= 93.467%	
Target Compounds						Qvalue
15) Acetone	4.430	58	3671	19.634	ug/l	96
30) 2-Butanone	7.489	43	1019	1.438	ug/l #	54
36) 1,2-Dichloroethane	9.088	62	2986	2.777	ug/l #	75
48) t-1,3-Dichloropropene	10.612	75	1432	1.120	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	1432	1.054	ug/l #	1
50) 1,1,2-Trichloroethane	10.553	97	2011	2.492	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.612	63	19789	28.113	ug/l #	1
56) Bromoform	12.818	173	356	0.611	ug/l #	13
62) Toluene	10.612	91	216530	61.567	ug/l	97
72) 1,2,3-Trichloropropane	12.829	75	13758	12.646	ug/l	1
77) t-1,4-Dichloro-2-butene	12.829	75	13758	28.509	ug/l #	13
79) tert-butylbenzene	13.712	119	2669	1.113	ug/l	54
82) p-Isopropyltoluene	13.712	119	2669	0.920	ug/l	90
85) n-Butylbenzene	13.712	91	563	0.213	ug/l #	10

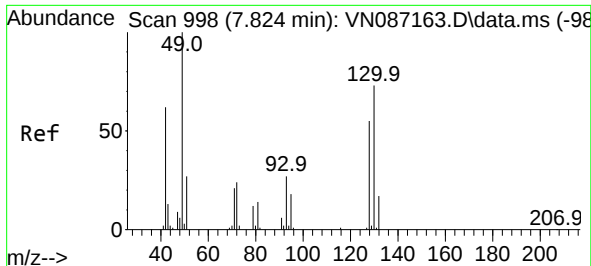
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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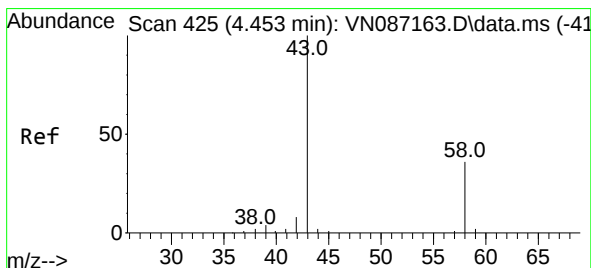
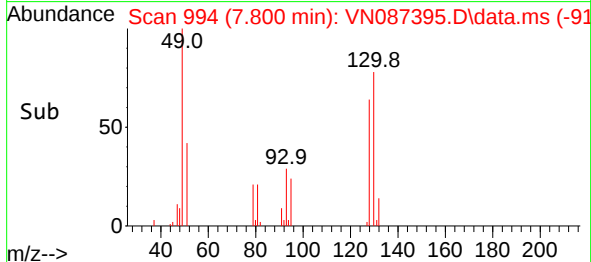
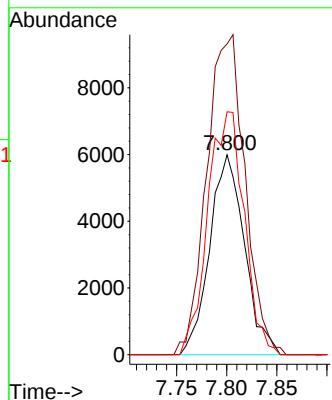
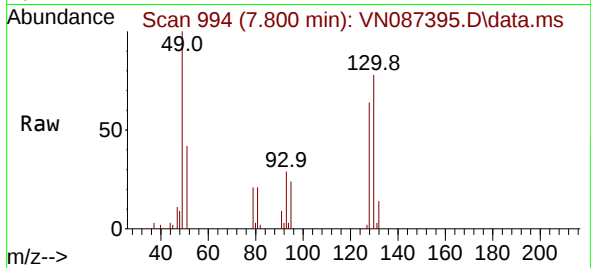




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 998
Delta R.T. -0.024 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

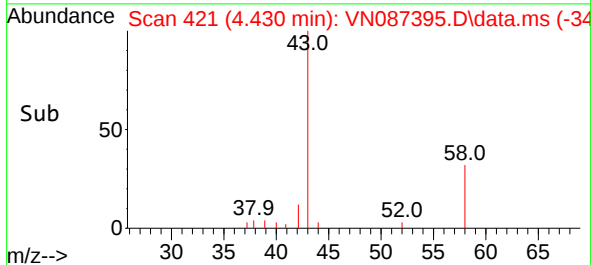
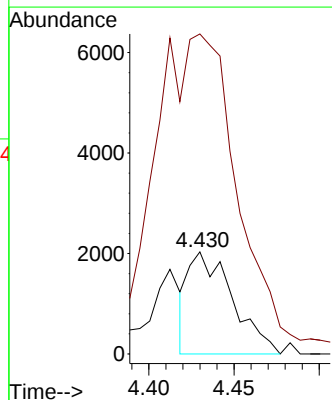
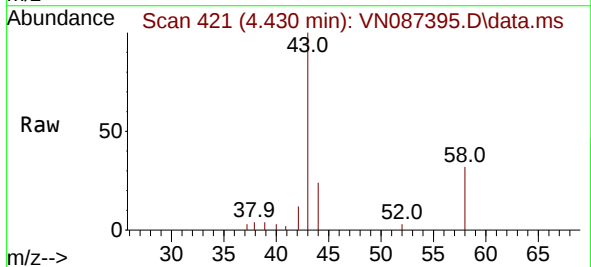
Instrument :
MSVOA_N
ClientSampleId :

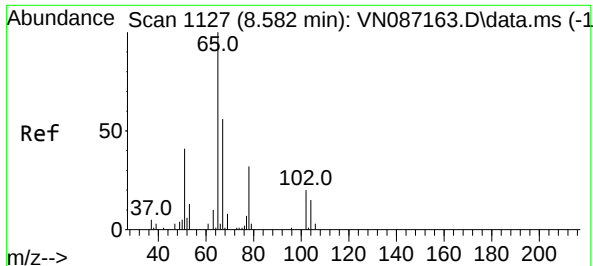
Tgt Ion:128 Resp: 14462
Ion Ratio Lower Upper
128 100
49 176.3 0.0 450.5
130 127.9 0.0 320.7



#15
Acetone
Concen: 19.634 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.023 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Tgt Ion: 58 Resp: 3671
Ion Ratio Lower Upper
58 100
43 287.1 224.3 336.5





#27

1,2-Dichloroethane-d4

Concen: 35.595 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. -0.017 min

Lab File: VN087395.D

Acq: 22 Jul 2025 17:28

Instrument :

MSVOA_N

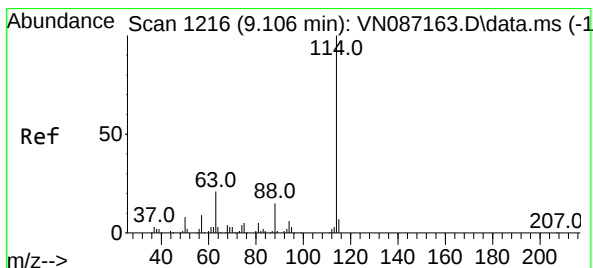
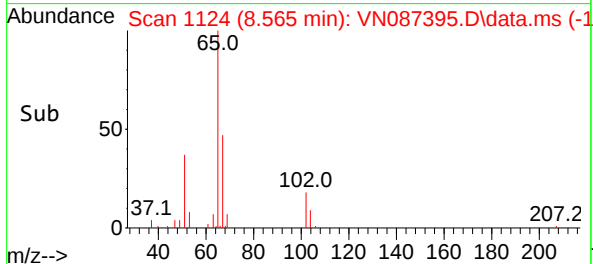
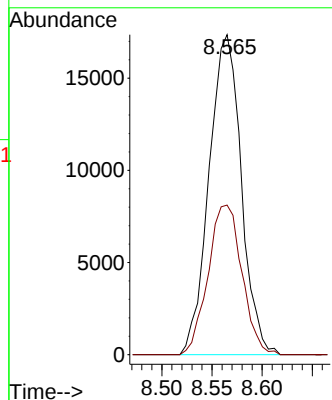
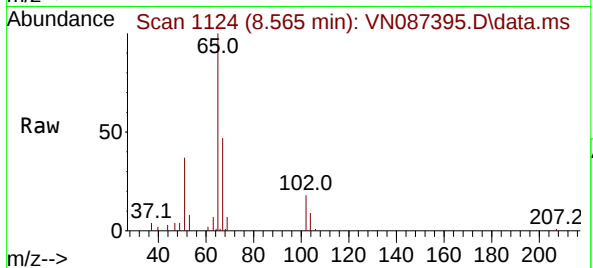
ClientSampleId :

Tgt Ion: 65 Resp: 38786

Ion Ratio Lower Upper

65 100

67 49.1 41.9 62.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.023 min

Lab File: VN087395.D

Acq: 22 Jul 2025 17:28

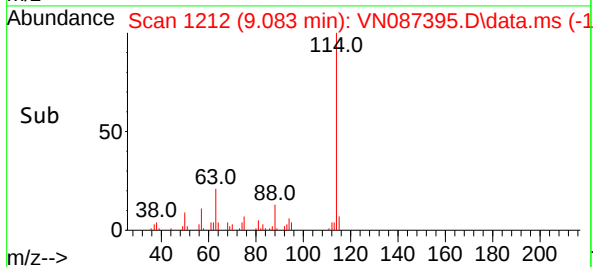
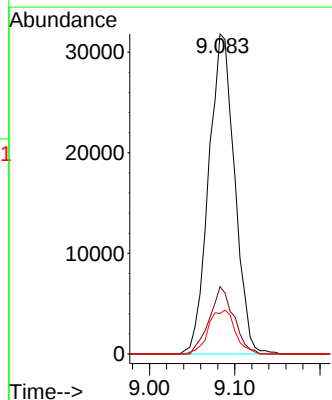
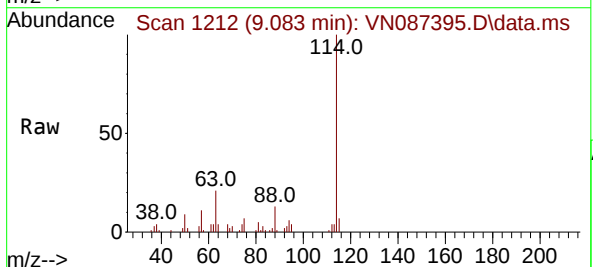
Tgt Ion: 114 Resp: 67398

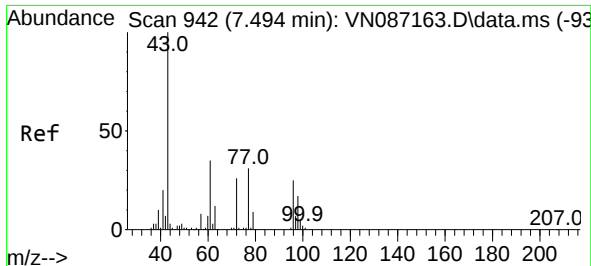
Ion Ratio Lower Upper

114 100

63 19.7 17.0 25.4

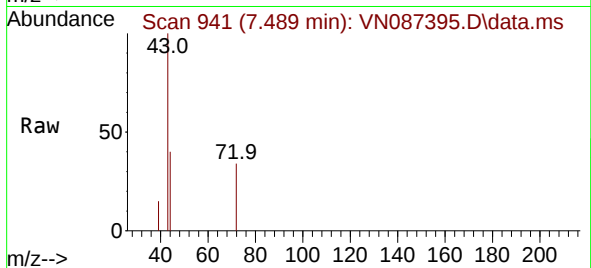
88 14.1 12.6 19.0



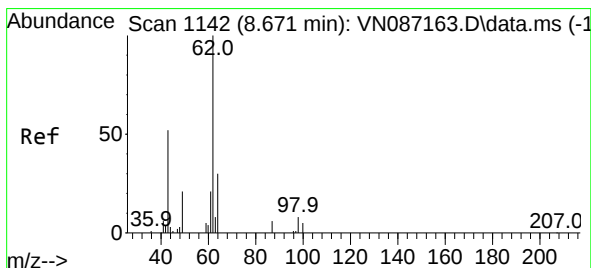
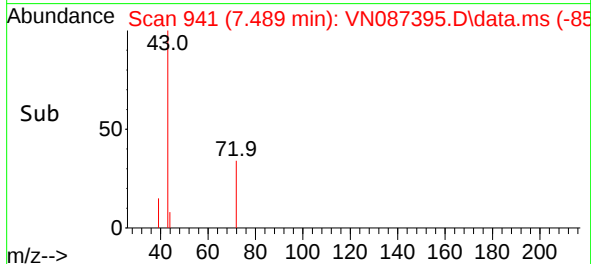
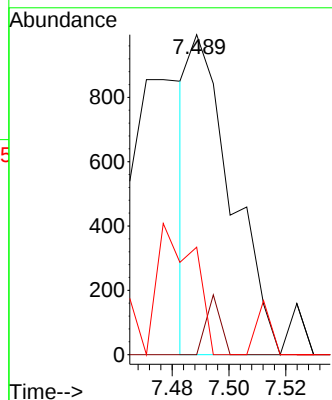


#30
2-Butanone
Concen: 1.438 ug/l
RT: 7.489 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :

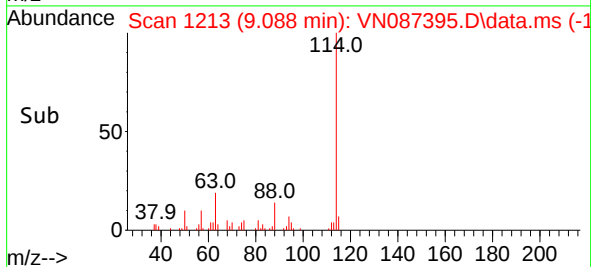
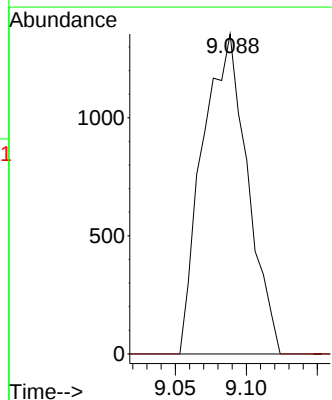
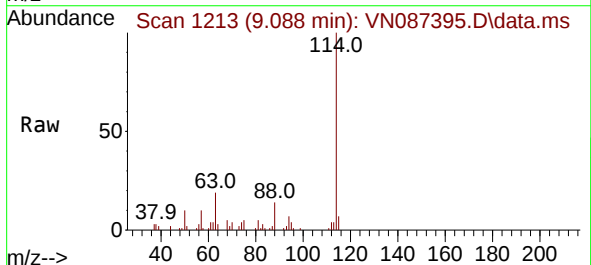


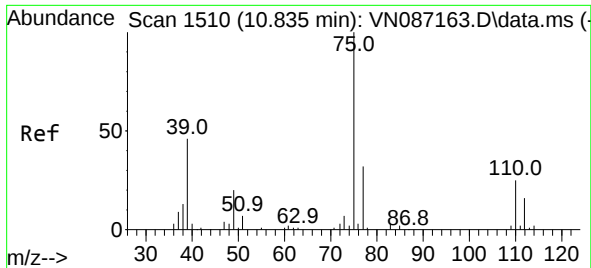
Tgt Ion: 43 Resp: 1019
Ion Ratio Lower Upper
43 100
57 0.0 6.3 9.5#
72 0.0 21.8 32.6#



#36
1,2-Dichloroethane
Concen: 2.777 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.418 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Tgt Ion: 62 Resp: 2986
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#

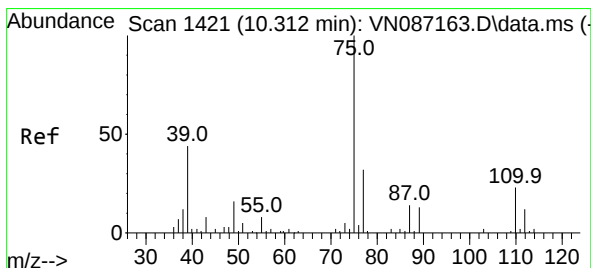
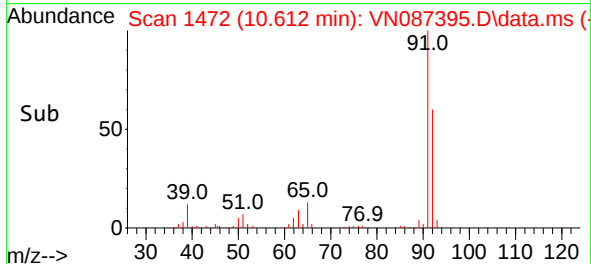
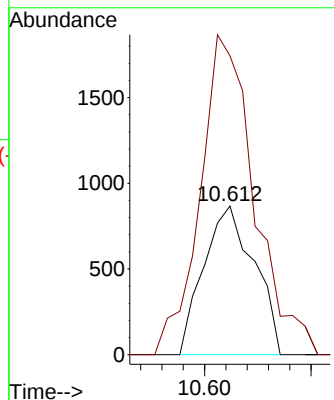
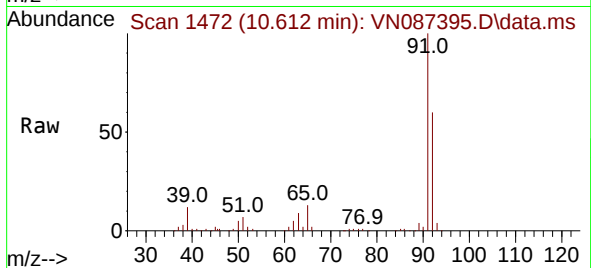




#48
 t-1,3-Dichloropropene
 Concen: 1.120 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. -0.223 min
 Lab File: VN087395.D
 Acq: 22 Jul 2025 17:28

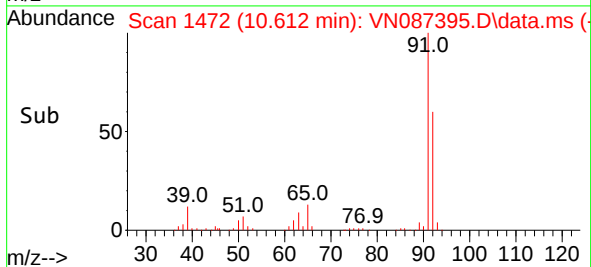
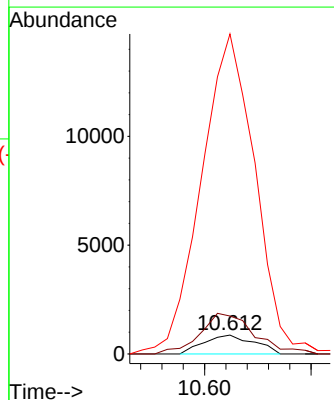
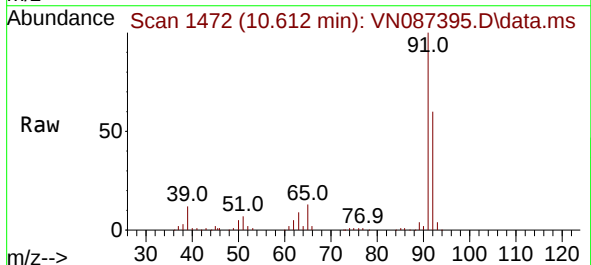
Instrument :
 MSVOA_N
 ClientSampleId :

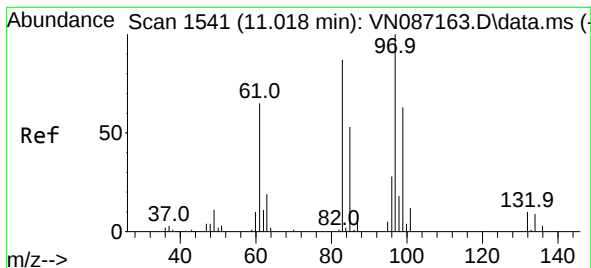
Tgt Ion: 75 Resp: 1432
 Ion Ratio Lower Upper
 75 100
 77 175.3 25.4 38.0#



#49
 cis-1,3-Dichloropropene
 Concen: 1.054 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.300 min
 Lab File: VN087395.D
 Acq: 22 Jul 2025 17:28

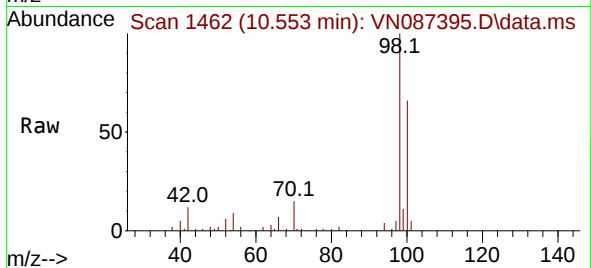
Tgt Ion: 75 Resp: 1432
 Ion Ratio Lower Upper
 75 100
 77 175.3 25.4 38.2#
 39 1549.6 35.3 52.9#



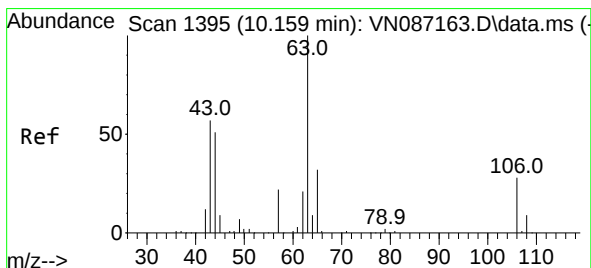
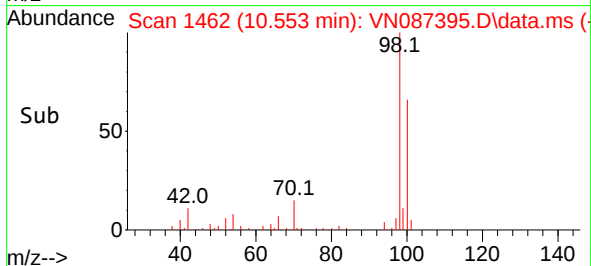
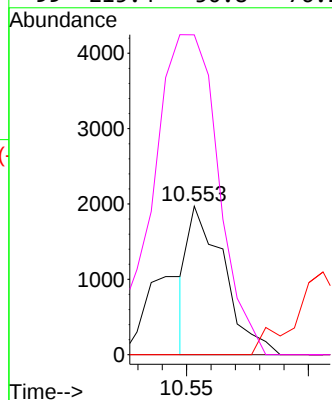


#50
1,1,2-Trichloroethane
Concen: 2.492 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.465 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :

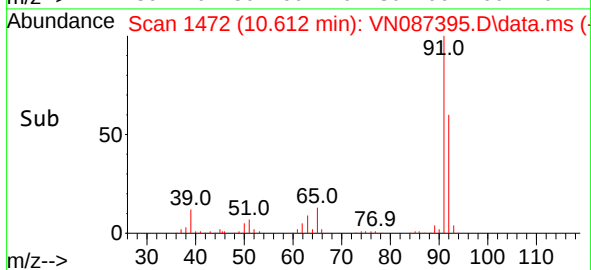
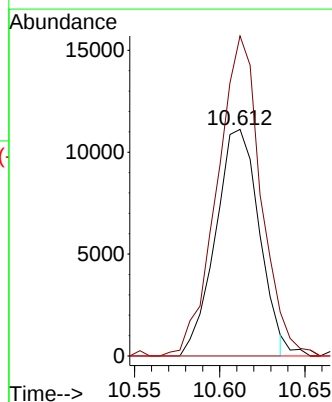
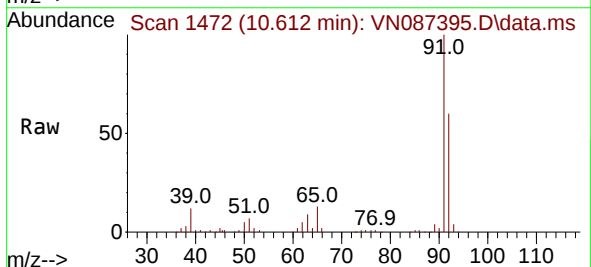


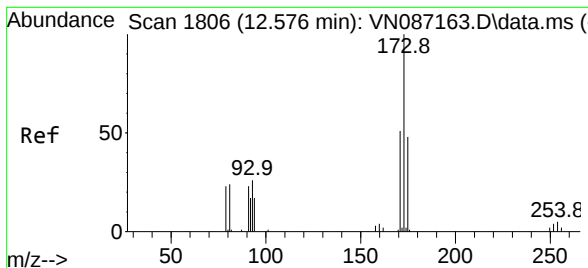
Tgt Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.6	104.4#
85	0.0	42.0	63.0#
99	215.4	50.8	76.2#



#55
2-Chloroethyl vinyl ether
Concen: 28.113 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.453 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Tgt Ion	Ratio	Lower	Upper
63	100		
65	139.7	25.6	38.4#
106	0.0	21.9	32.9#





#56

Bromoform

Concen: 0.611 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.241 min

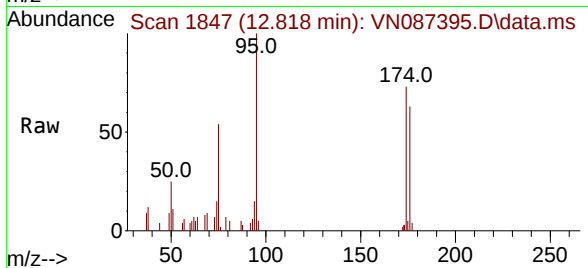
Lab File: VN087395.D

Acq: 22 Jul 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :



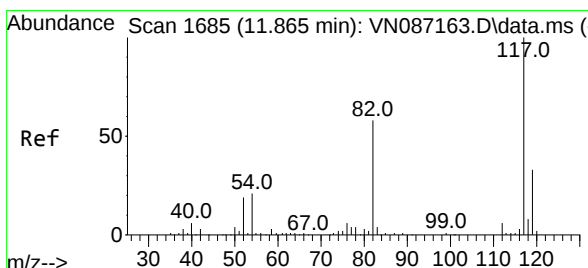
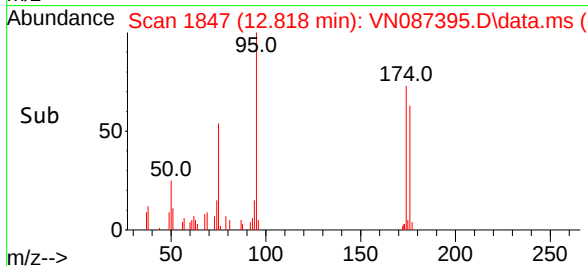
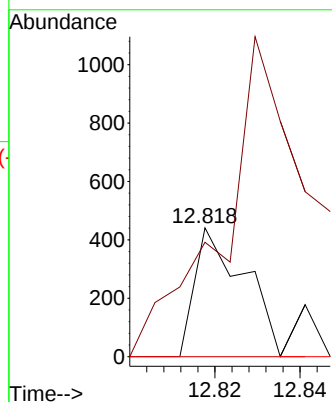
Tgt Ion:173 Resp: 356

Ion Ratio Lower Upper

173 100

175 112.9 38.7 58.1#

254 0.0 4.2 6.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.018 min

Lab File: VN087395.D

Acq: 22 Jul 2025 17:28

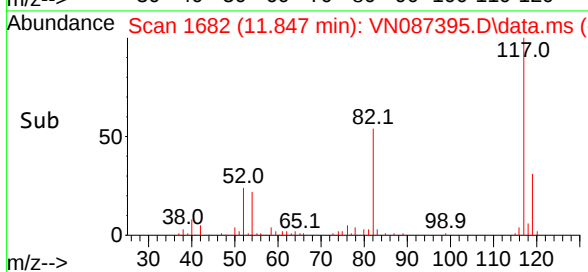
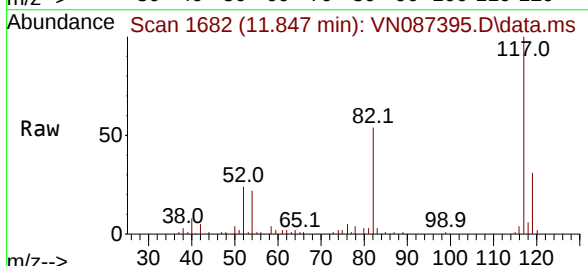
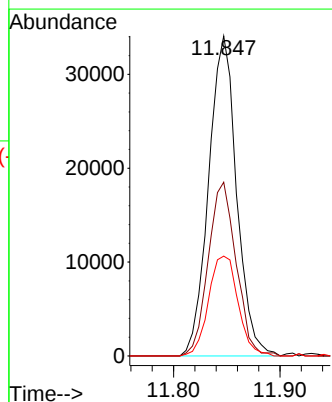
Tgt Ion:117 Resp: 62271

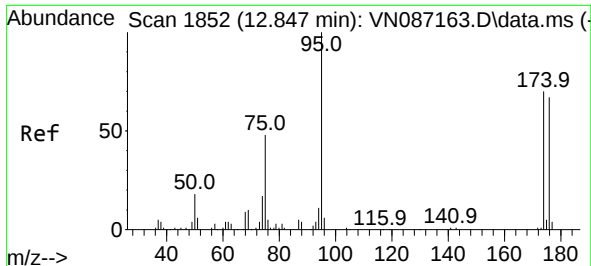
Ion Ratio Lower Upper

117 100

82 53.7 45.4 68.2

119 32.9 26.2 39.4

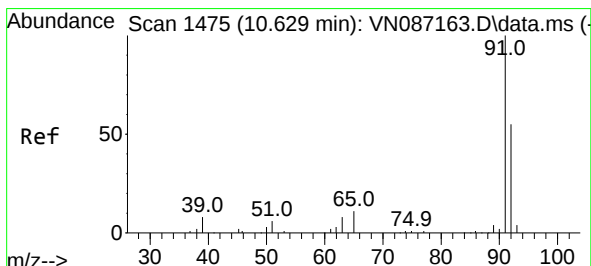
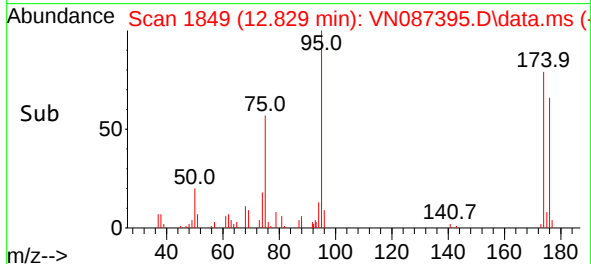
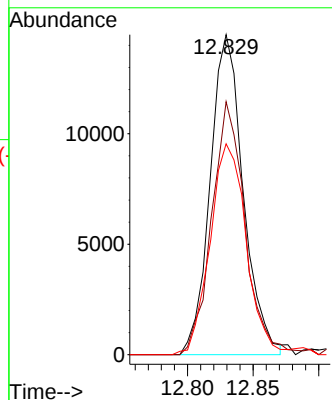
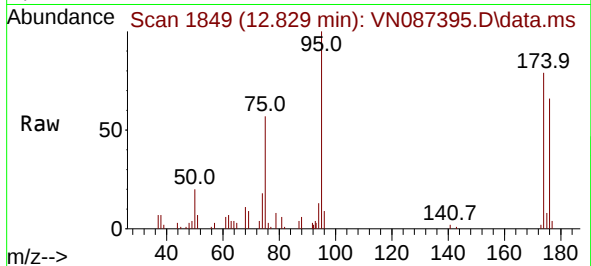




#60
4-Bromofluorobenzene
Concen: 26.430 ug/l
RT: 12.829 min Scan# 1852
Delta R.T. -0.017 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

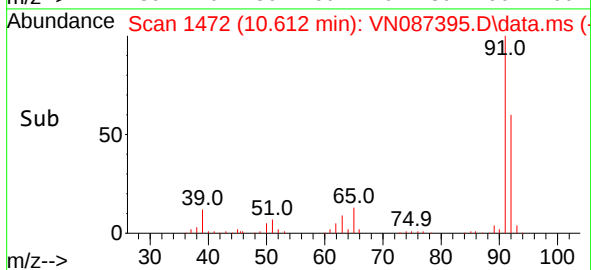
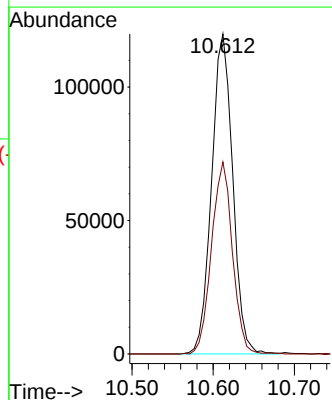
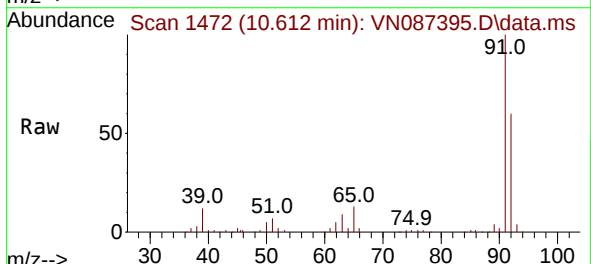
Instrument :
MSVOA_N
ClientSampleId :

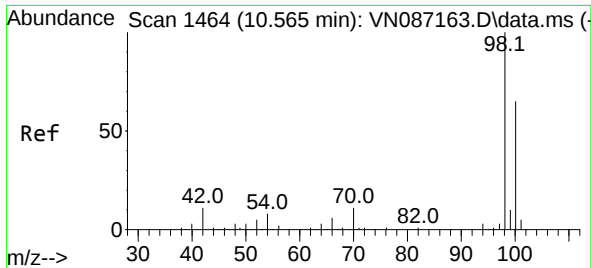
Tgt Ion: 95 Resp: 25397
Ion Ratio Lower Upper
95 100
174 79.2 54.5 81.7
176 71.9 51.9 77.9



#62
Toluene
Concen: 61.567 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.017 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Tgt Ion: 91 Resp: 216530
Ion Ratio Lower Upper
91 100
92 59.3 45.8 68.8

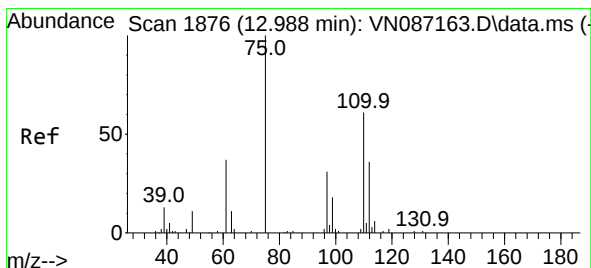
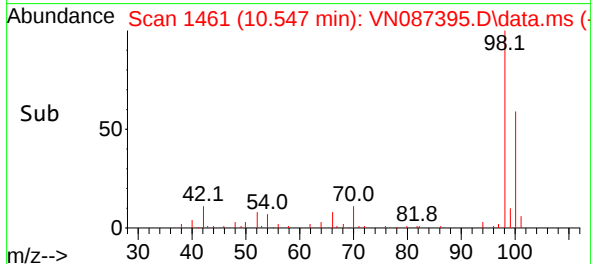
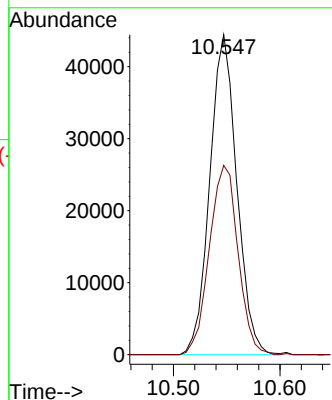
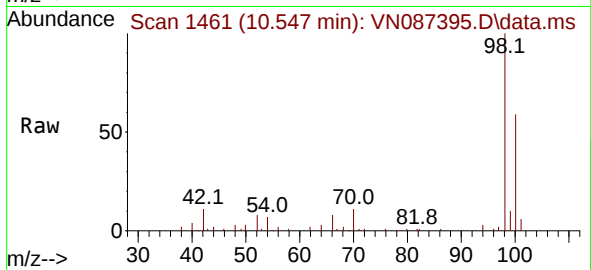




#63
Toluene-d8
Concen: 28.040 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

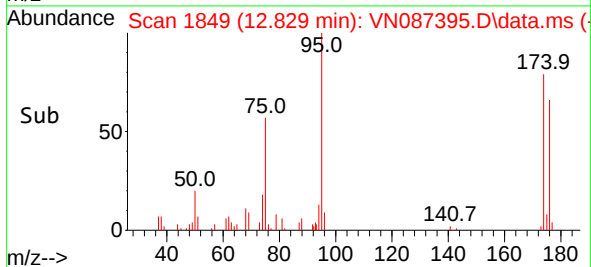
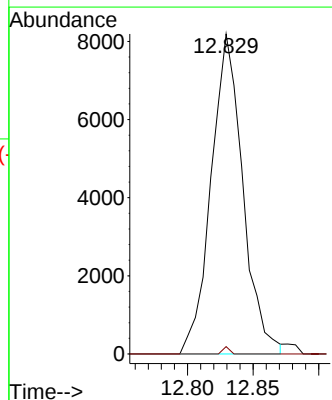
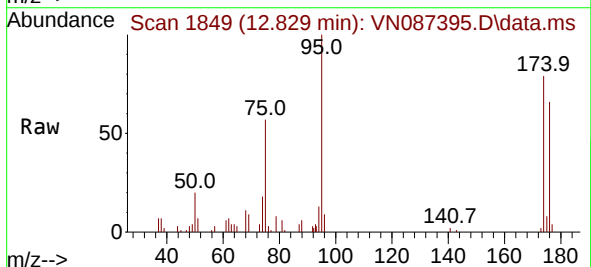
Instrument :
MSVOA_N
ClientSampleId :

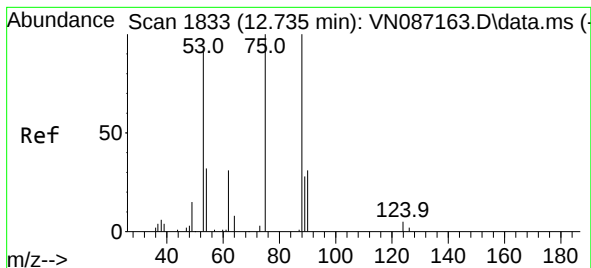
Tgt Ion: 98 Resp: 78400
Ion Ratio Lower Upper
98 100
100 62.7 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 12.646 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.159 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

Tgt Ion: 75 Resp: 13758
Ion Ratio Lower Upper
75 100
77 1.3 0.0 379.2

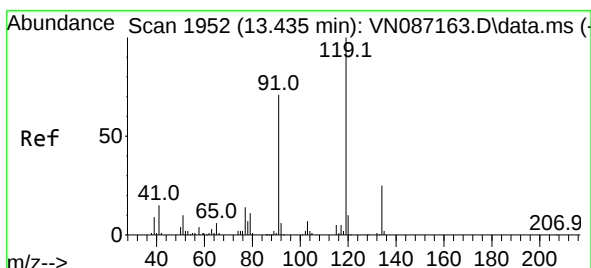
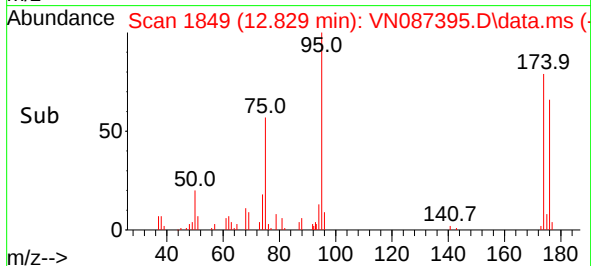
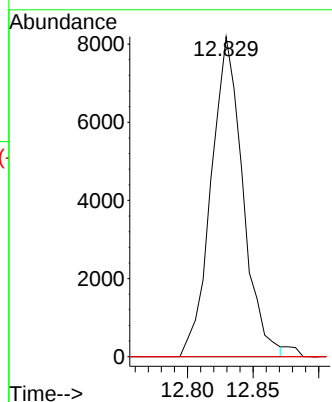
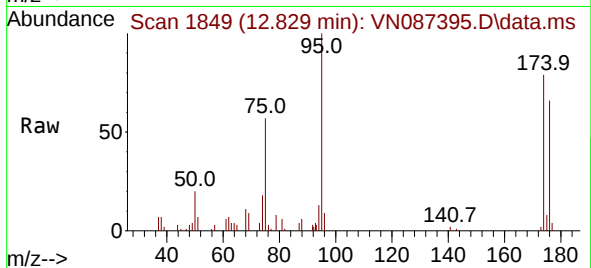




#77
t-1,4-Dichloro-2-butene
Concen: 28.509 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.094 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

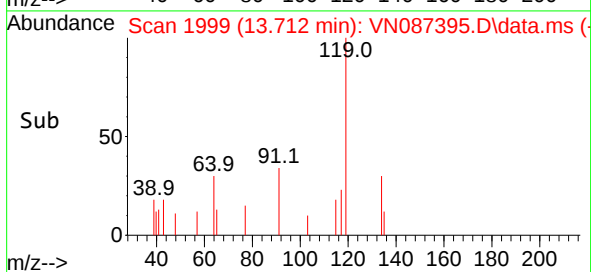
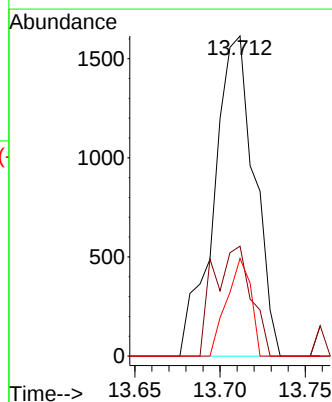
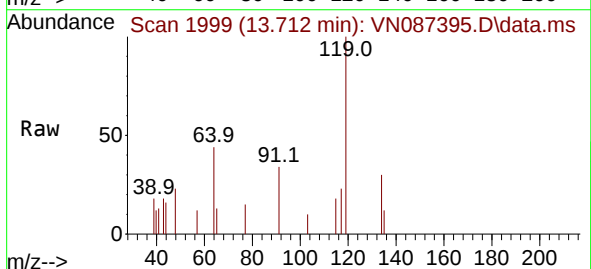
Instrument :
MSVOA_N
ClientSampleId :

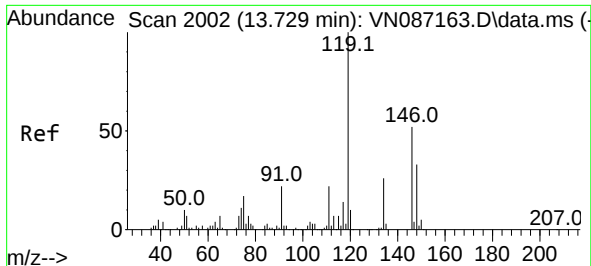
Tgt Ion: 75 Resp: 13758
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#



#79
tert-butylbenzene
Concen: 1.113 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.277 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

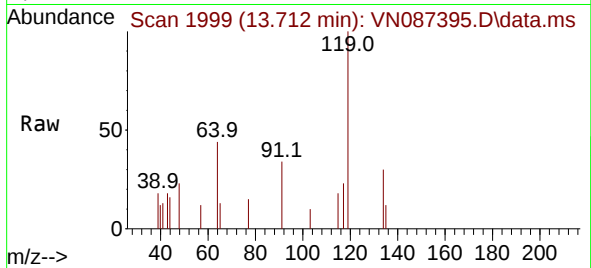
Tgt Ion: 119 Resp: 2669
Ion Ratio Lower Upper
119 100
91 21.1 0.0 137.0
134 18.2 0.0 49.4



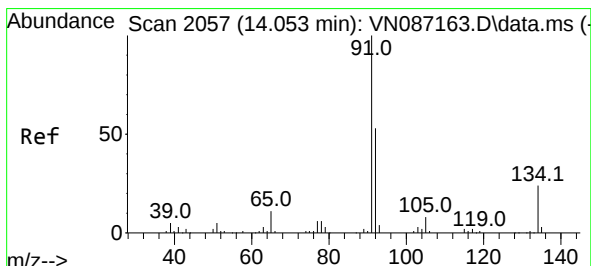
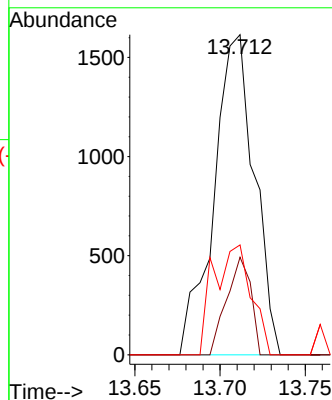
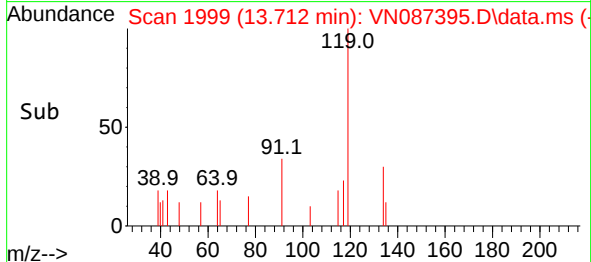


#82
p-Isopropyltoluene
Concen: 0.920 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.018 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28

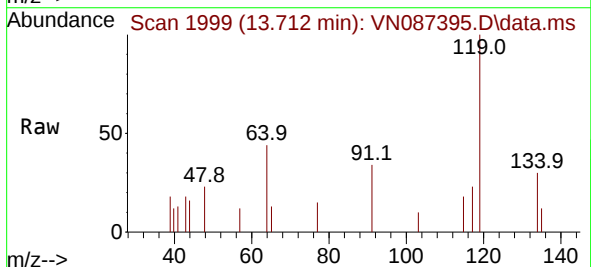
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:119 Resp: 2669
Ion Ratio Lower Upper
119 100
134 18.2 0.0 51.2
91 21.1 0.0 46.4



#85
n-Butylbenzene
Concen: 0.213 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.341 min
Lab File: VN087395.D
Acq: 22 Jul 2025 17:28



Tgt Ion: 91 Resp: 563
Ion Ratio Lower Upper
91 100
92 0.0 0.0 106.4
134 86.1 0.0 48.8#

