

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087882.D
 Acq On : 17 Sep 2025 16:00
 Operator : JC\MD
 Sample : Q3098-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:14:00 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)

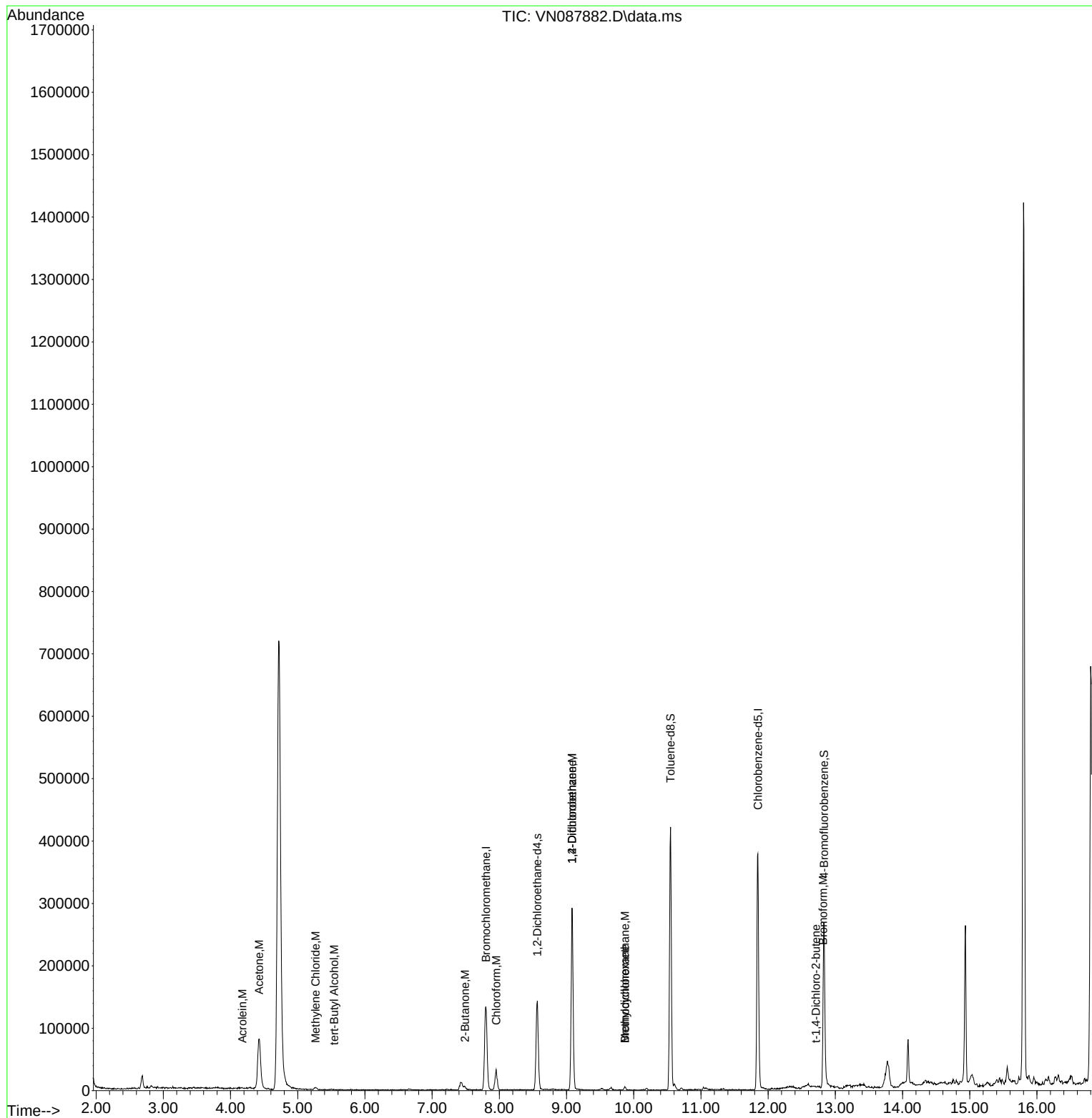
Internal Standards						
1) Bromochloromethane	7.800	128	49561	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	241644	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	220656	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	120465	28.454	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.833%
60) 4-Bromofluorobenzene	12.829	95	95529	26.925	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.733%
63) Toluene-d8	10.547	98	288377	28.102	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.667%
Target Compounds						
					Qvalue	
13) Acrolein	4.177	56	268	0.326	ug/l #	1
15) Acetone	4.424	58	46035	74.334	ug/l	99
18) Methylene Chloride	5.265	84	734	0.217	ug/l #	1
23) tert-Butyl Alcohol	5.542	59	304	0.433	ug/l #	100
25) Chloroform	7.953	83	27935	4.337	ug/l	95
30) 2-Butanone	7.489	43	7015	2.593	ug/l #	80
36) 1,2-Dichloroethane	9.083	62	9108	1.900	ug/l #	75
38) Methylcyclohexane	9.871	83	3867	0.894	ug/l #	18
41) Bromodichloromethane	9.871	83	4091	0.827	ug/l #	72
56) Bromoform	12.818	173	598	0.261	ug/l #	34
77) t-1,4-Dichloro-2-butene	12.712	75	380	0.243	ug/l #	58

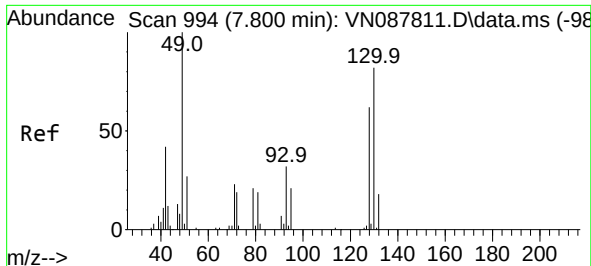
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
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ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

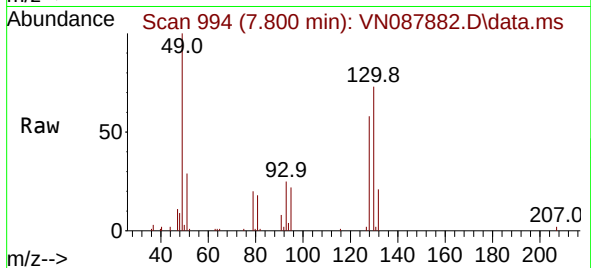
Quant Time: Sep 18 03:14:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



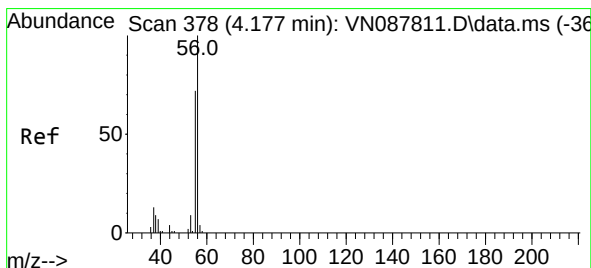
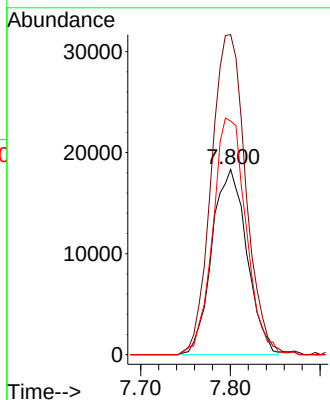
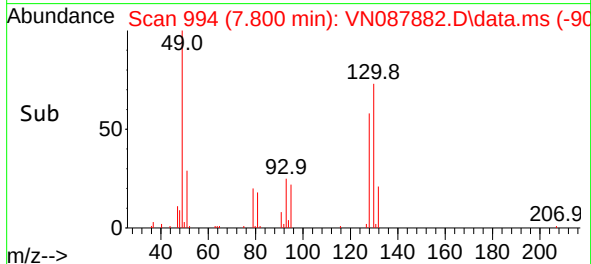


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :

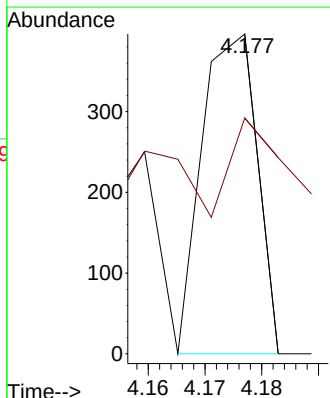
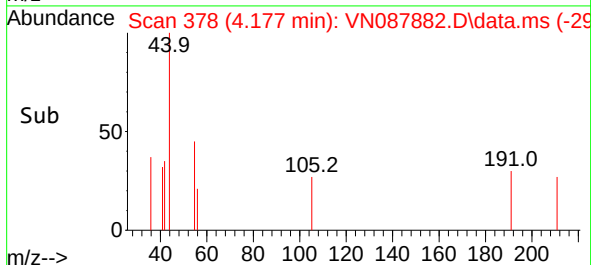
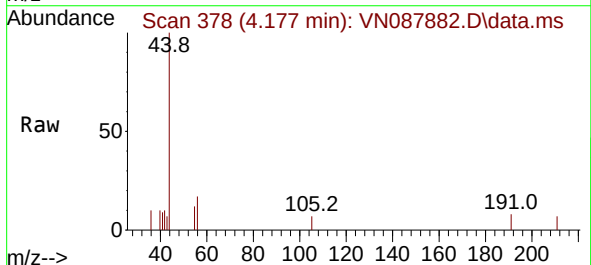


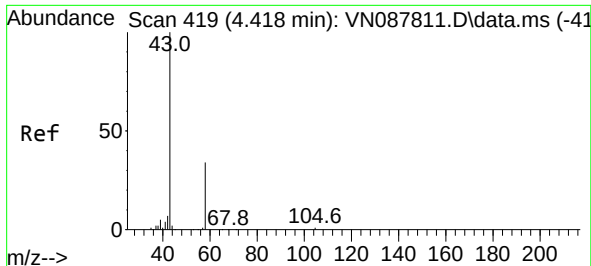
Tgt Ion:128 Resp: 49561
Ion Ratio Lower Upper
128 100
49 170.1 0.0 464.3
130 121.5 0.0 300.5



#13
Acrolein
Concen: 0.326 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

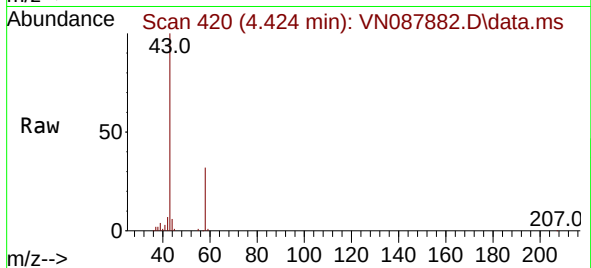
Tgt Ion: 56 Resp: 268
Ion Ratio Lower Upper
56 100
55 96.6 28.6 42.8#



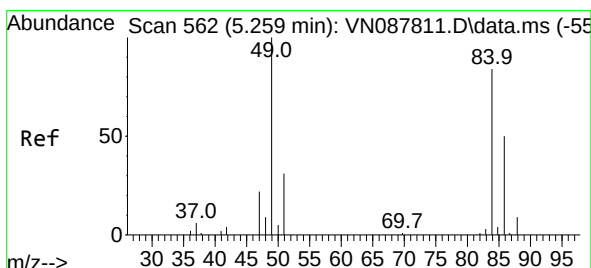
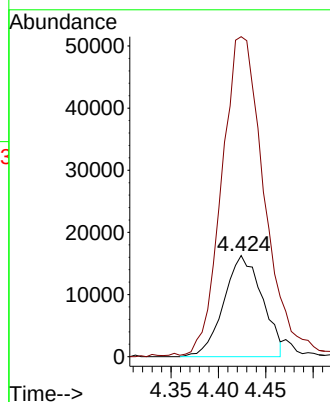
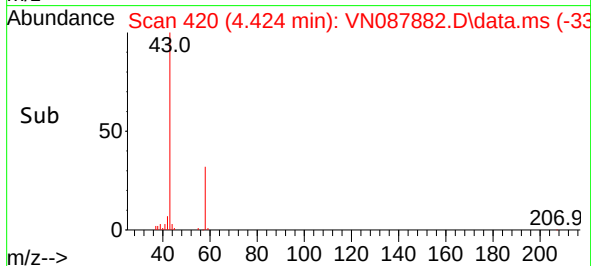


#15
Acetone
Concen: 74.334 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :

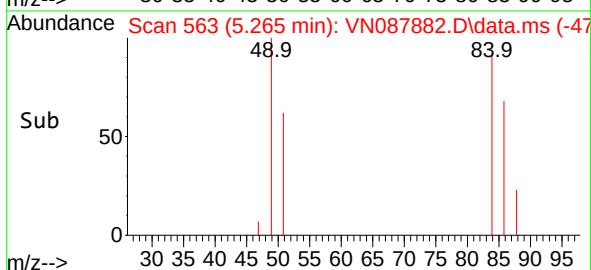
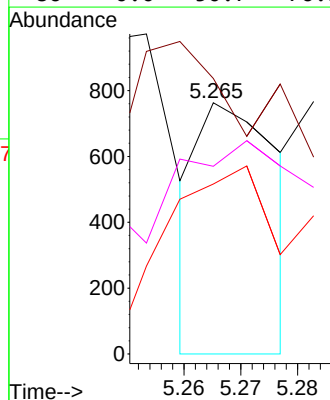
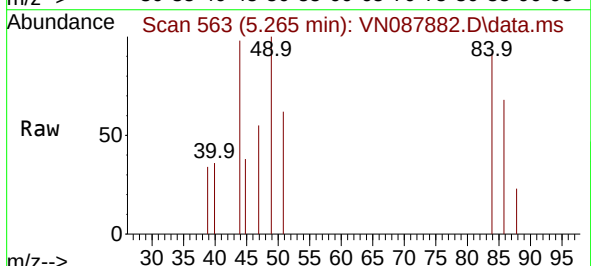


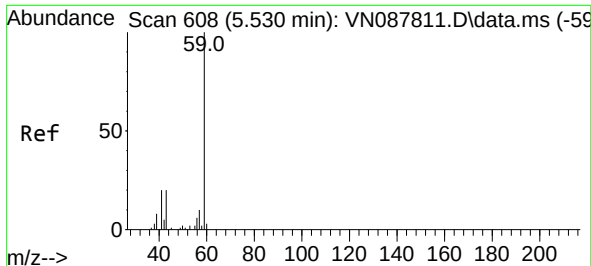
Tgt Ion: 58 Resp: 46035
Ion Ratio Lower Upper
58 100
43 314.8 250.6 376.0



#18
Methylene Chloride
Concen: 0.217 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

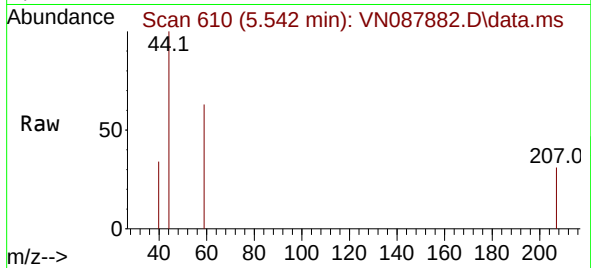
Tgt Ion: 84 Resp: 734
Ion Ratio Lower Upper
84 100
49 7.2 114.1 171.1#
51 90.3 30.2 45.4#
86 0.0 50.7 76.1#



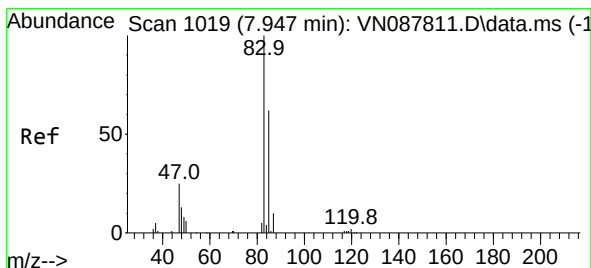
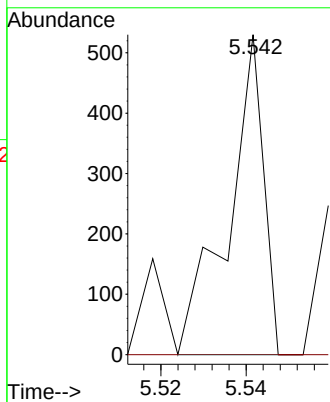
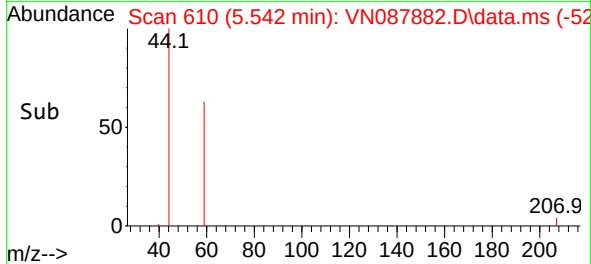


#23
tert-Butyl Alcohol
Concen: 0.433 ug/l
RT: 5.542 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :

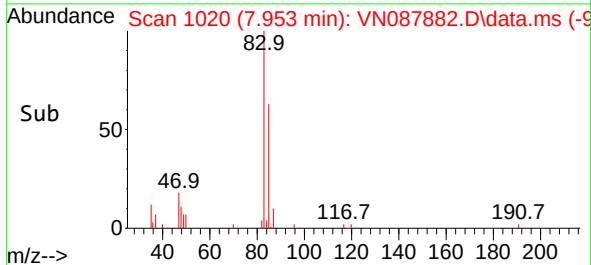
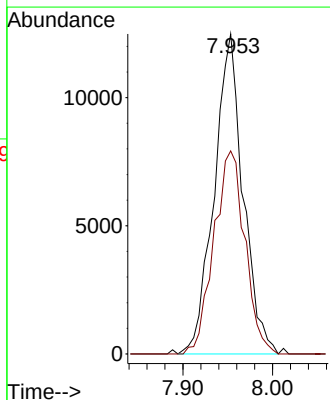
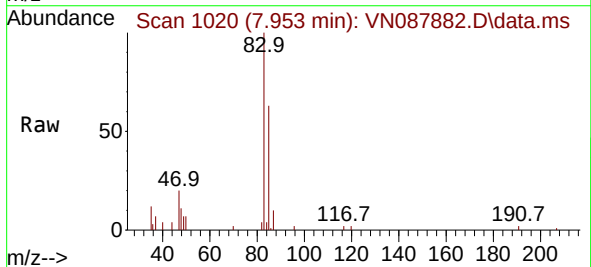


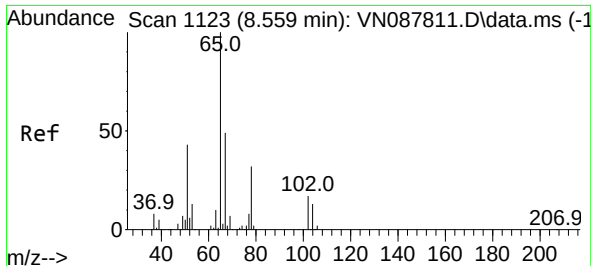
Tgt Ion: 59 Resp: 304
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 4.337 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

Tgt Ion: 83 Resp: 27935
Ion Ratio Lower Upper
83 100
85 63.5 47.7 71.5

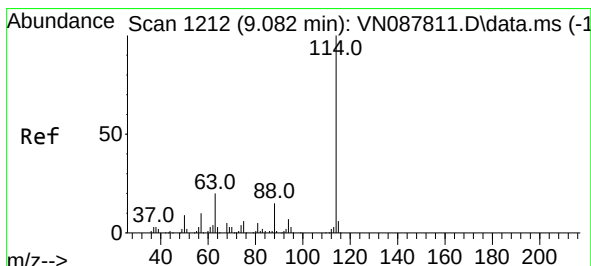
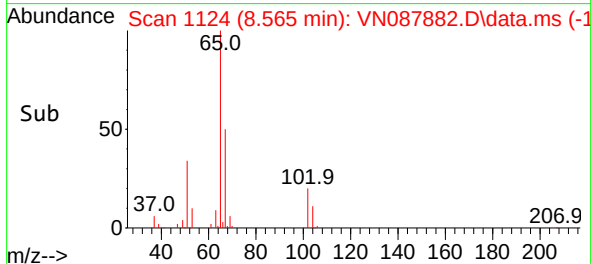
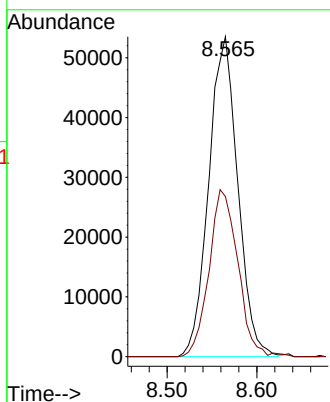
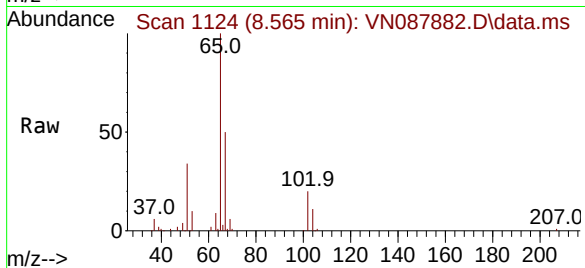




#27
1,2-Dichloroethane-d4
Concen: 28.454 ug/l
RT: 8.565 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

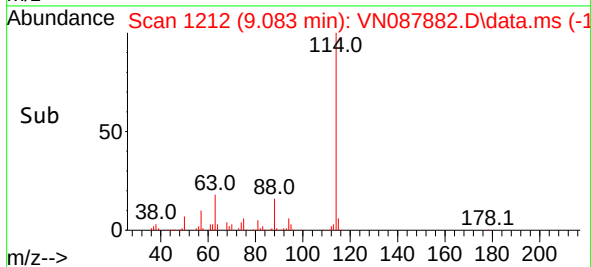
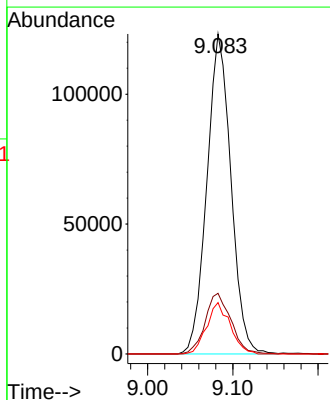
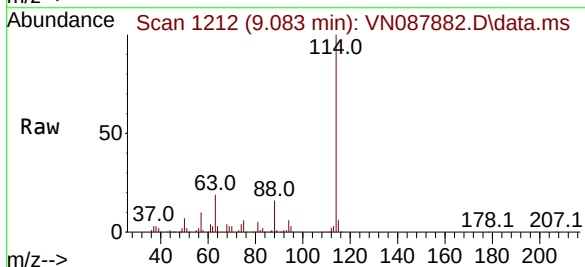
Instrument :
MSVOA_N
ClientSampleId :

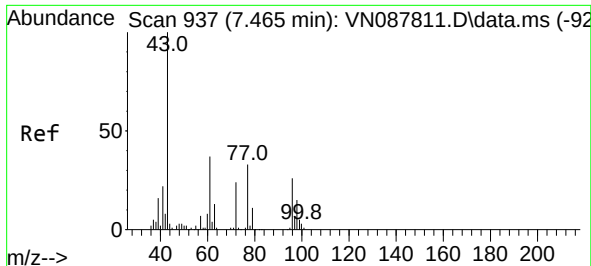
Tgt Ion: 65 Resp: 120465
Ion Ratio Lower Upper
65 100
67 51.3 39.6 59.4



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

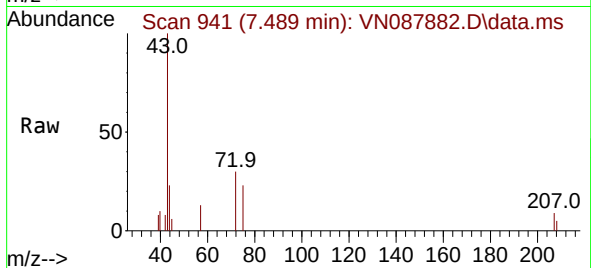
Tgt Ion:114 Resp: 241644
Ion Ratio Lower Upper
114 100
63 20.2 18.3 27.5
88 15.7 12.4 18.6



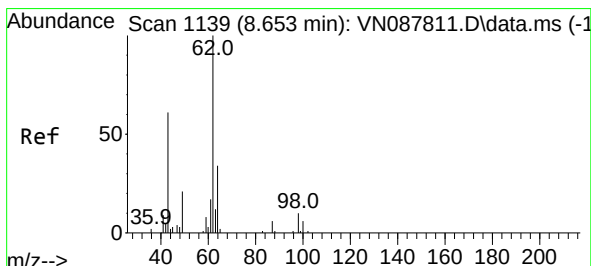
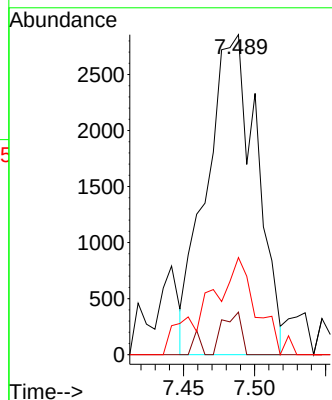
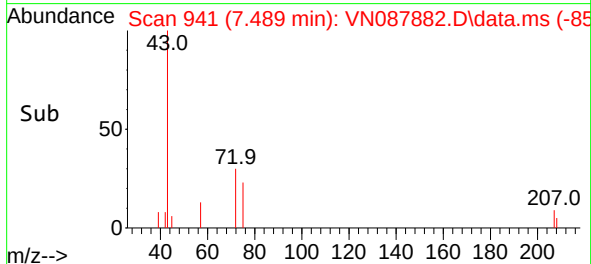


#30
2-Butanone
Concen: 2.593 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

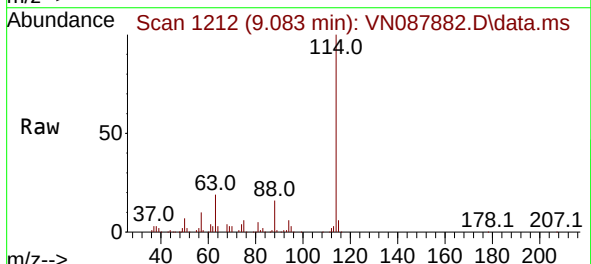
Instrument :
MSVOA_N
ClientSampleId :



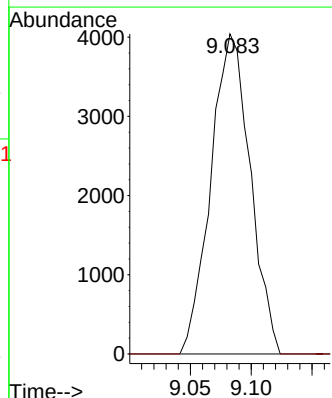
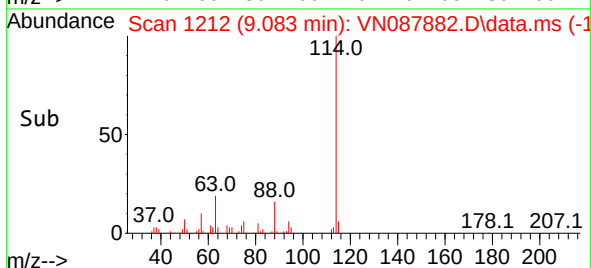
Tgt Ion: 43 Resp: 7015
Ion Ratio Lower Upper
43 100
57 4.9 6.3 9.5#
72 14.5 21.4 32.2#

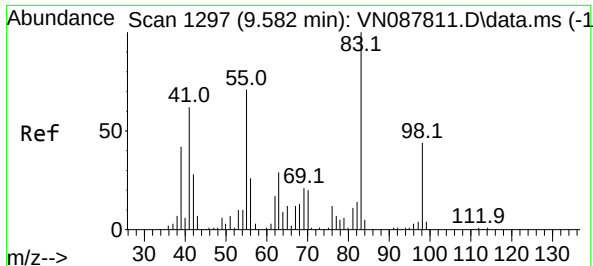


#36
1,2-Dichloroethane
Concen: 1.900 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.429 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00



Tgt Ion: 62 Resp: 9108
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#





#38

Methylcyclohexane

Concen: 0.894 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. 0.288 min

Lab File: VN087882.D

Acq: 17 Sep 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

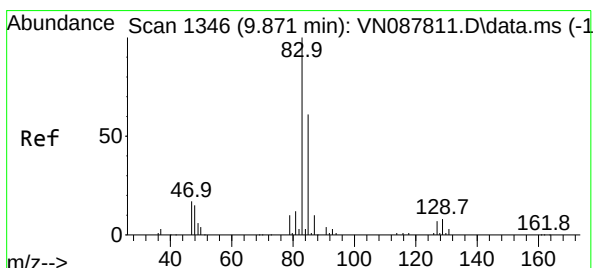
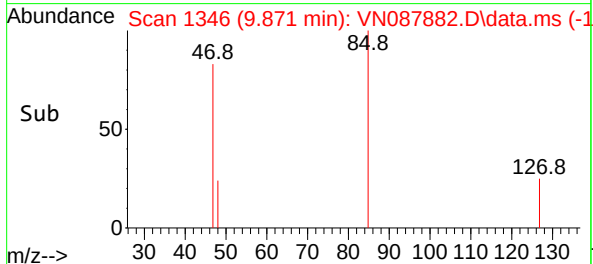
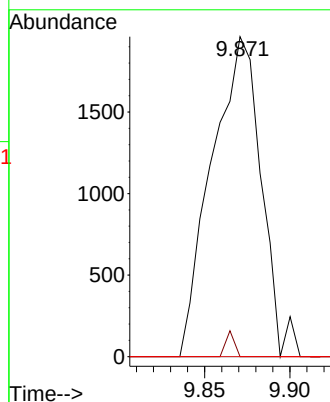
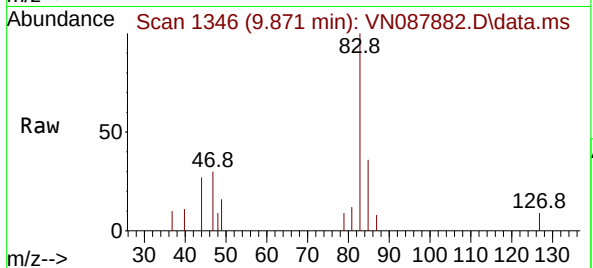
Tgt Ion: 83 Resp: 3867

Ion Ratio Lower Upper

83 100

55 2.0 40.4 121.1#

98 0.0 24.0 72.0#



#41

Bromodichloromethane

Concen: 0.827 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. -0.000 min

Lab File: VN087882.D

Acq: 17 Sep 2025 16:00

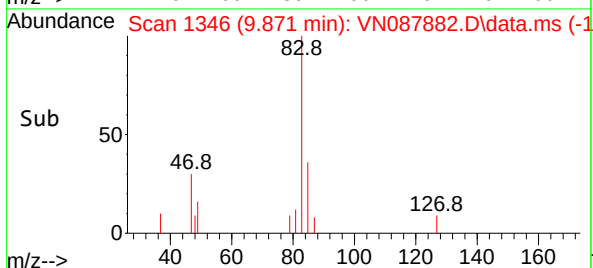
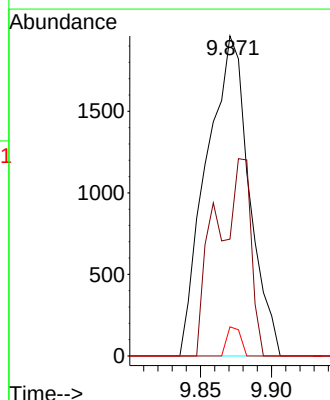
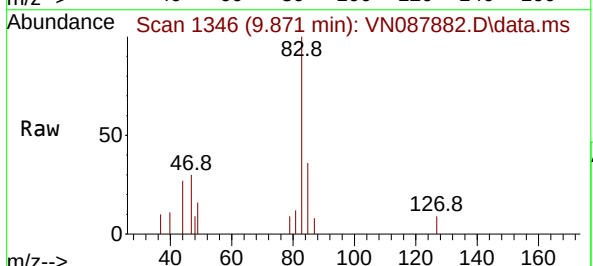
Tgt Ion: 83 Resp: 4091

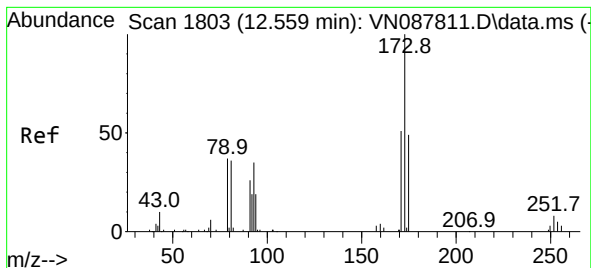
Ion Ratio Lower Upper

83 100

85 36.5 47.3 70.9#

127 9.1 5.2 7.8#





#56

Bromoform

Concen: 0.261 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.259 min

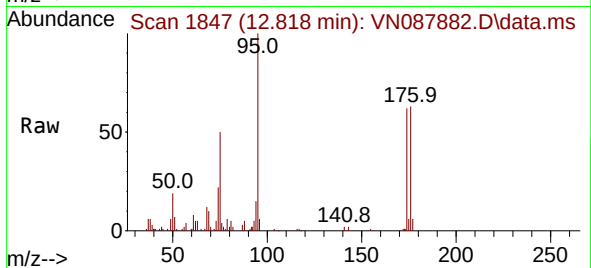
Lab File: VN087882.D

Acq: 17 Sep 2025 16:00

Instrument :

MSVOA_N

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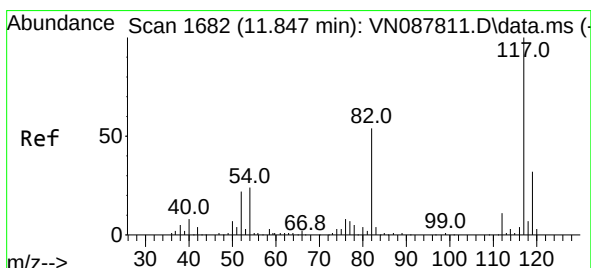
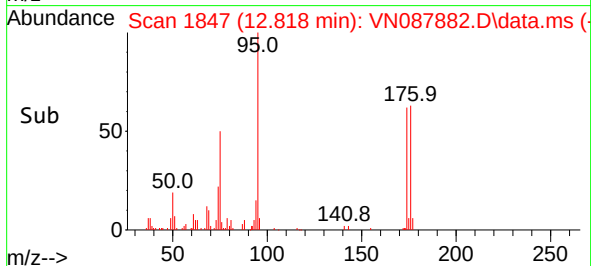
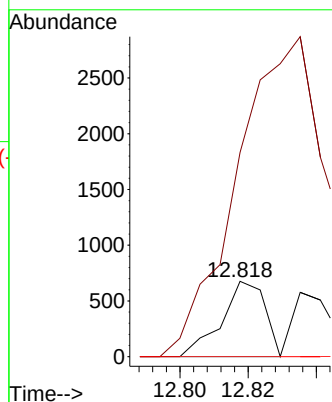
Tgt Ion:173 Resp: 598

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.6#

254 0.0 6.2 9.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.006 min

Lab File: VN087882.D

Acq: 17 Sep 2025 16:00

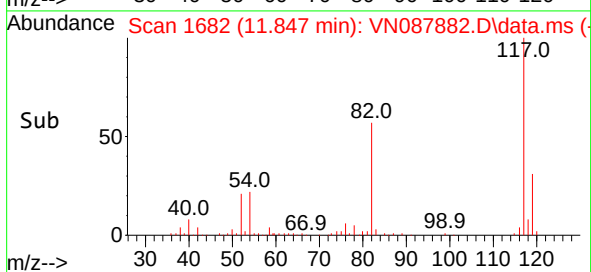
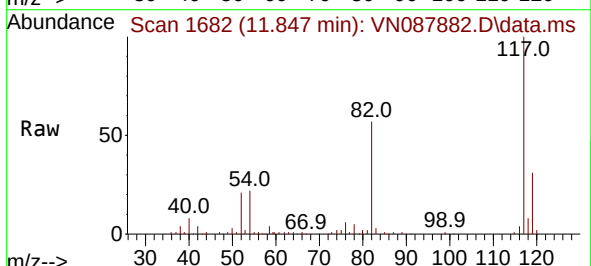
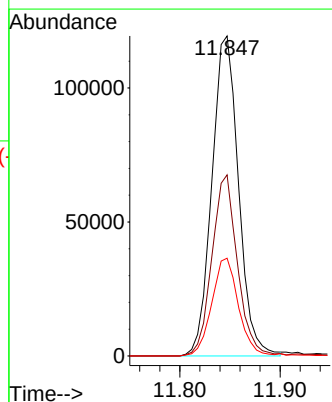
Tgt Ion:117 Resp: 220656

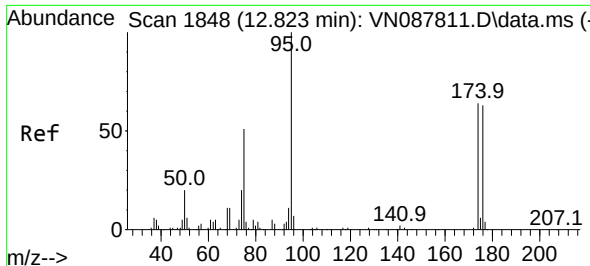
Ion Ratio Lower Upper

117 100

82 54.2 45.9 68.9

119 30.6 25.3 37.9

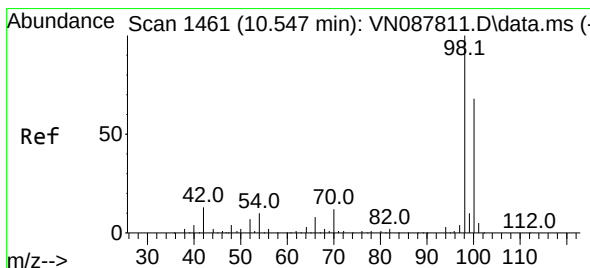
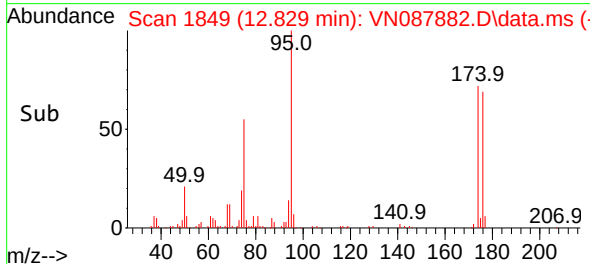
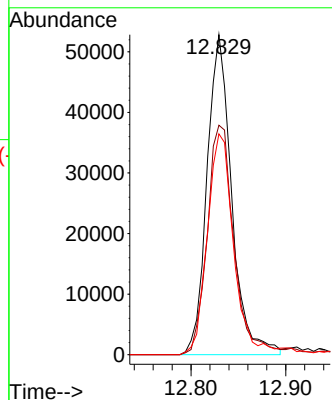
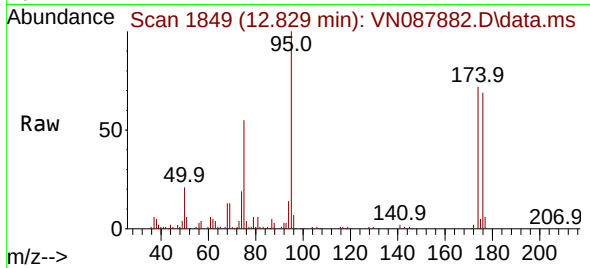




#60
4-Bromofluorobenzene
Concen: 26.925 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

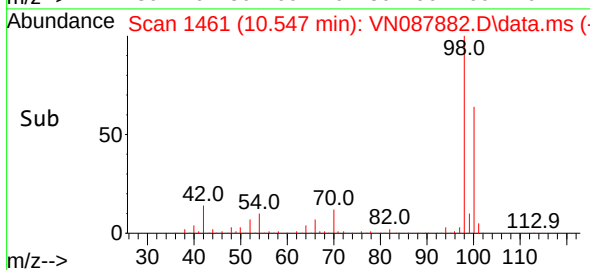
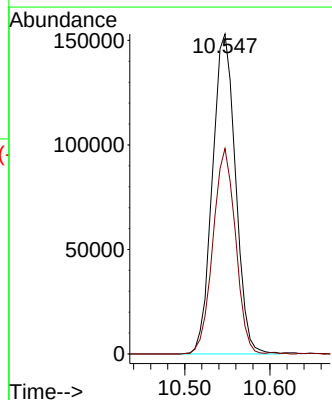
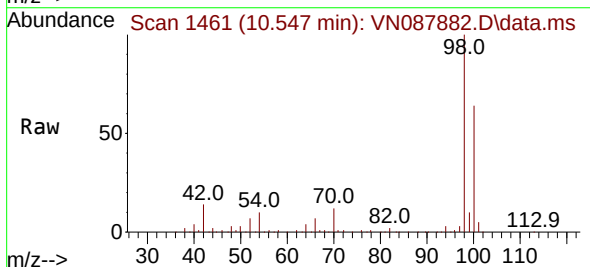
Instrument :
MSVOA_N
ClientSampleId :

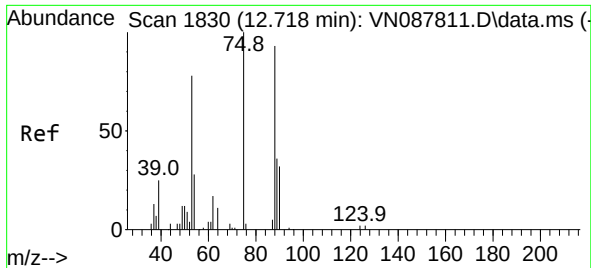
Tgt Ion: 95 Resp: 95529
Ion Ratio Lower Upper
95 100
174 77.5 55.4 83.0
176 71.7 51.5 77.3



#63
Toluene-d8
Concen: 28.102 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

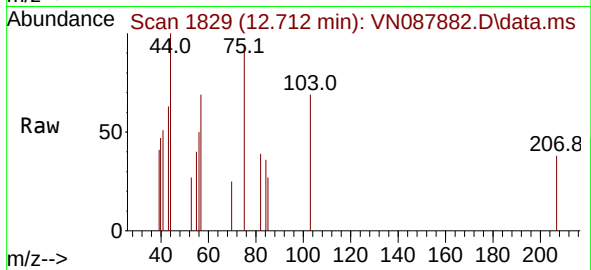
Tgt Ion: 98 Resp: 288377
Ion Ratio Lower Upper
98 100
100 62.4 50.6 76.0





#77
t-1,4-Dichloro-2-butene
Concen: 0.243 ug/l
RT: 12.712 min Scan# 1829
Delta R.T. -0.006 min
Lab File: VN087882.D
Acq: 17 Sep 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	75	Resp:	380
Ion	Ratio	Lower	Upper
75	100		
53	59.3	45.3	135.9
89	0.0	18.8	56.3#

