

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081825\
 Data File : VN087601.D
 Acq On : 18 Aug 2025 12:42
 Operator : JC\MD
 Sample : Q2845-04DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (july)DL

Quant Time: Aug 18 15:12:18 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)

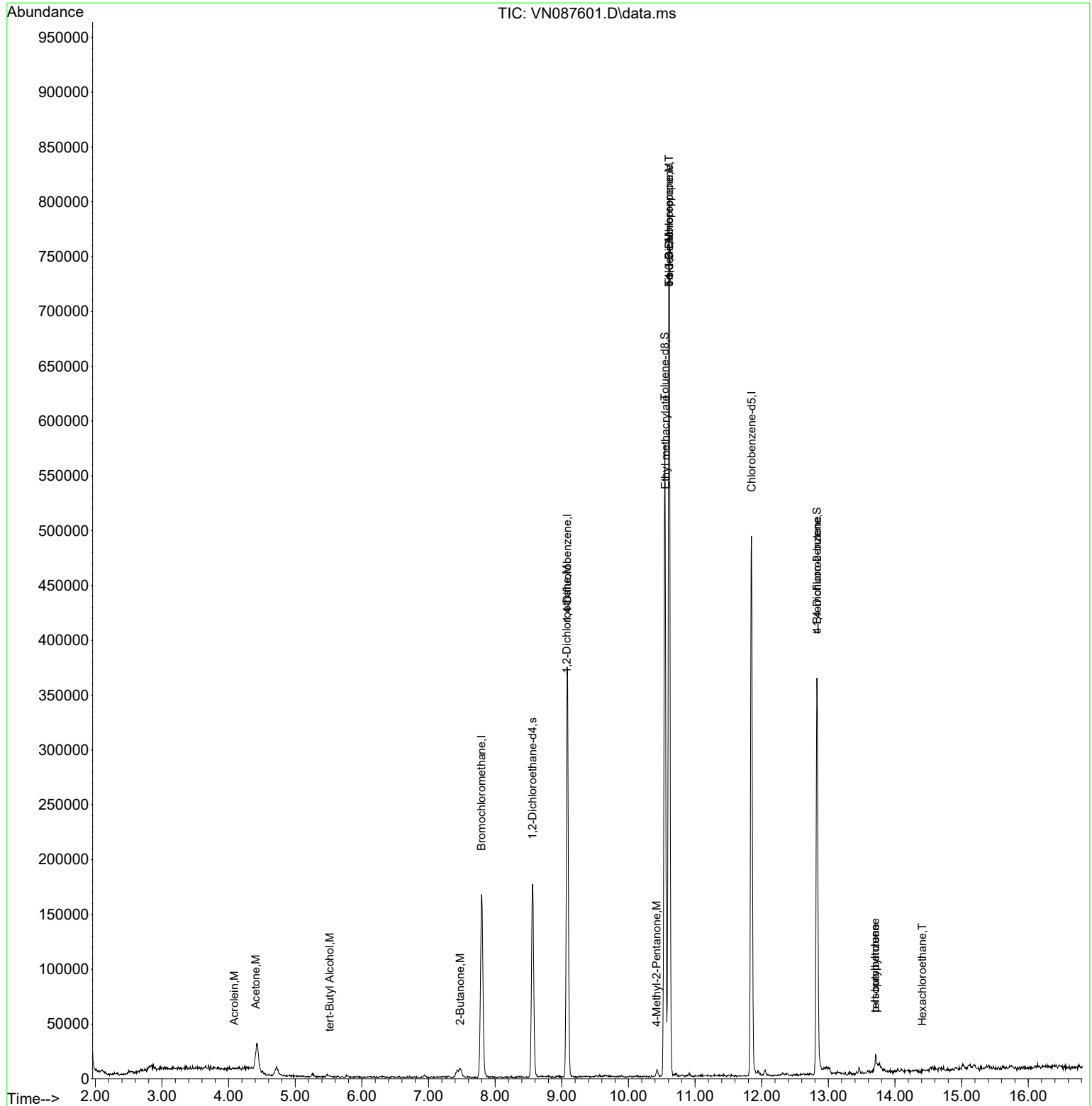
Internal Standards						
1) Bromochloromethane	7.794	128	55447	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	303389	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	270310	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	153196	29.955	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.867%
60) 4-Bromofluorobenzene	12.829	95	128376	27.597	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.000%
63) Toluene-d8	10.547	98	375129	30.161	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.533%
Target Compounds						
					Qvalue	
13) Acrolein	4.083	56	387	0.452	ug/l	86
15) Acetone	4.406	58	3713	5.310	ug/l	78
23) tert-Butyl Alcohol	5.518	59	565	0.543	ug/l #	100
30) 2-Butanone	7.477	43	9784	2.682	ug/l #	71
36) 1,2-Dichloroethane	9.076	62	12855	2.036	ug/l #	77
48) t-1,3-Dichloropropene	10.612	75	4726	0.696	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	4726	0.691	ug/l #	1
51) Ethyl methacrylate	10.553	69	1885	0.282	ug/l	94
58) 4-Methyl-2-Pentanone	10.423	43	5281	0.759	ug/l #	71
62) Toluene	10.612	91	592568	35.518	ug/l	100
77) t-1,4-Dichloro-2-butene	12.829	75	74701	36.238	ug/l #	3
79) tert-butylbenzene	13.706	119	6692	0.543	ug/l	60
82) p-Isopropyltoluene	13.706	119	6692	0.450	ug/l	91
86) Hexachloroethane	14.411	117	767	0.264	ug/l #	22

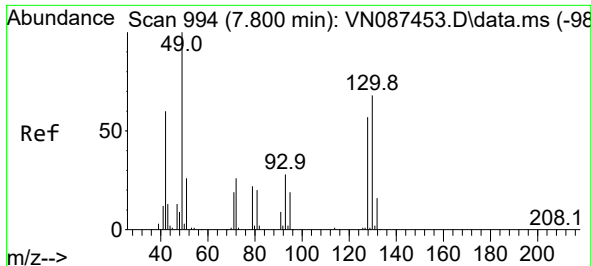
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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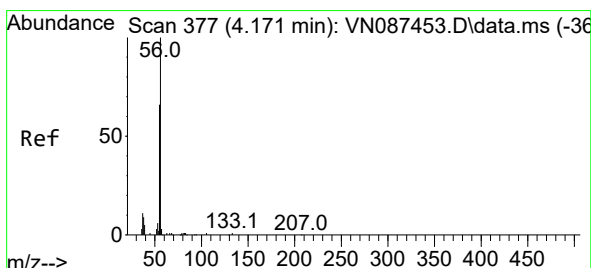
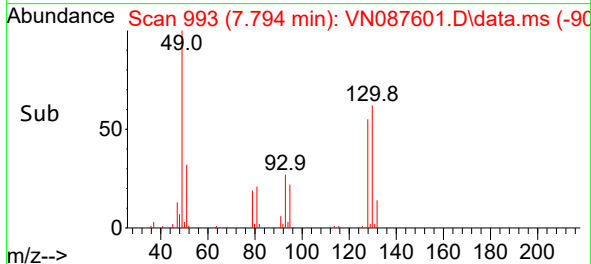
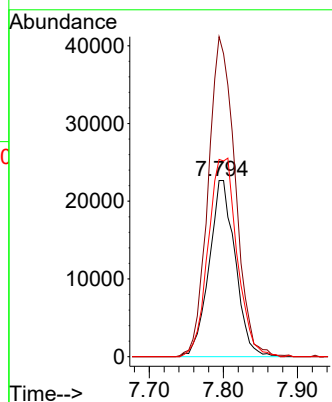
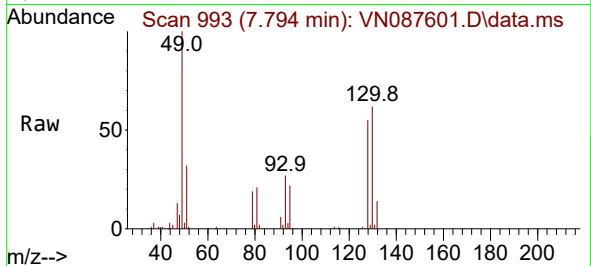




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

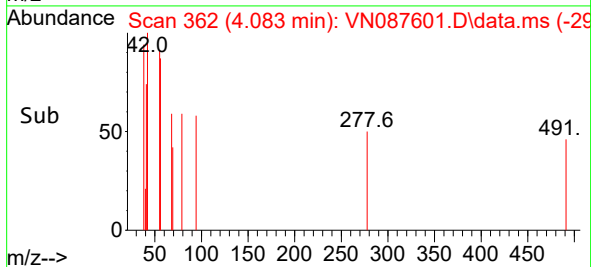
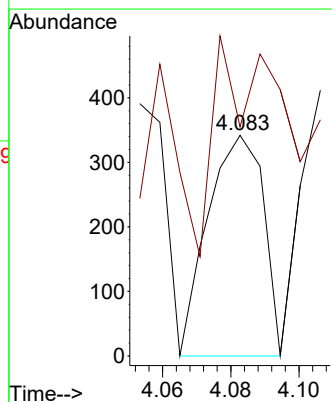
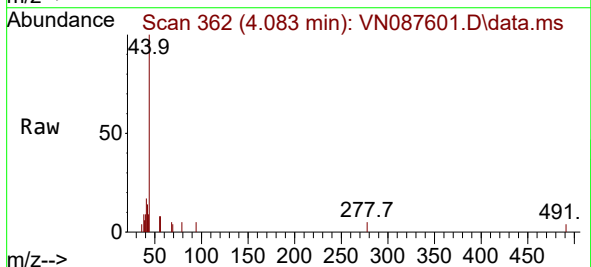
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)DL

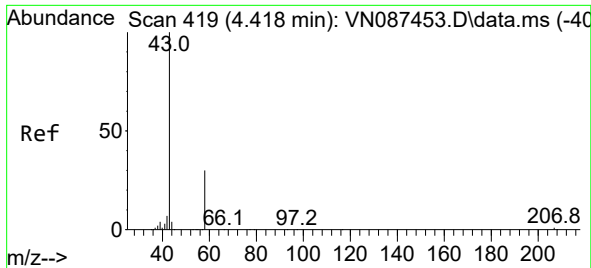
Tgt Ion:128 Resp: 55447
Ion Ratio Lower Upper
128 100
49 187.7 0.0 494.8
130 125.1 0.0 321.5



#13
Acrolein
Concen: 0.452 ug/l
RT: 4.083 min Scan# 362
Delta R.T. -0.088 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 56 Resp: 387
Ion Ratio Lower Upper
56 100
55 83.2 57.4 86.0

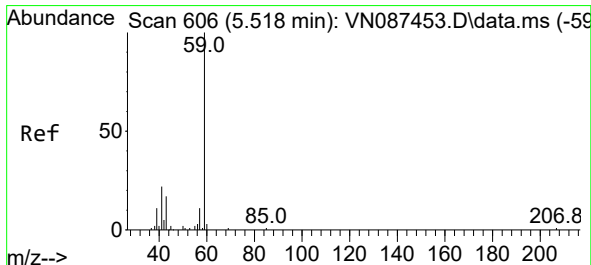
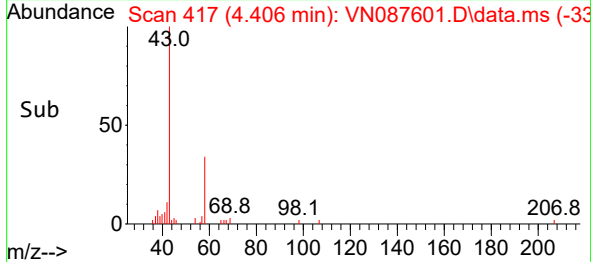
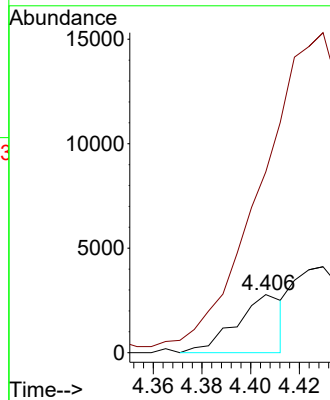
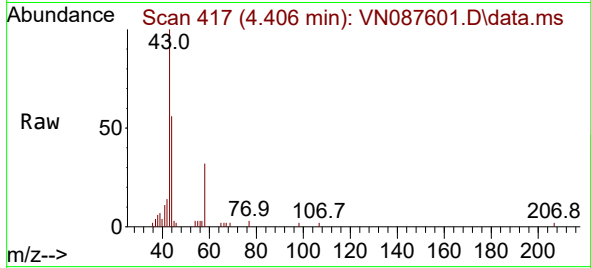




#15
Acetone
Concen: 5.310 ug/l
RT: 4.406 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

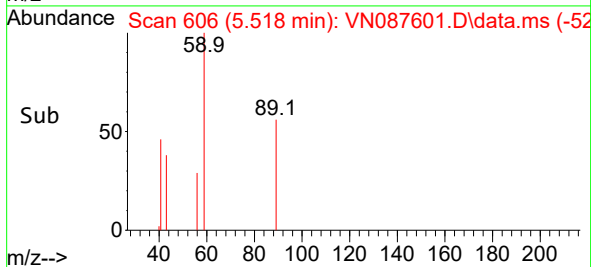
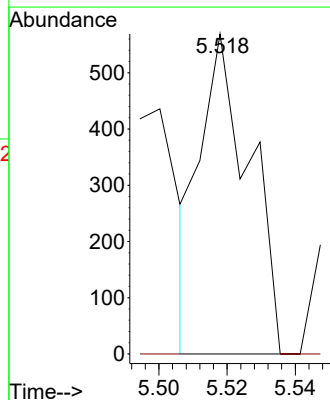
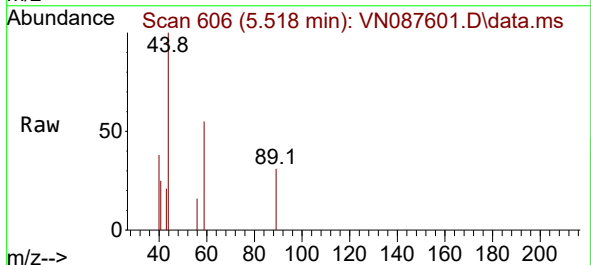
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)DL

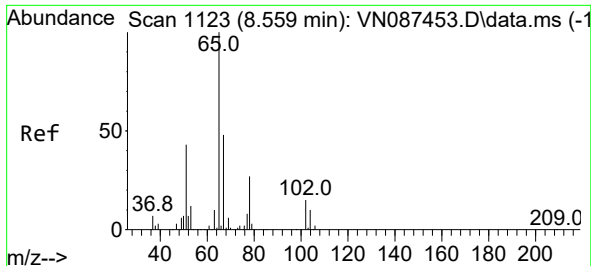
Tgt Ion: 58 Resp: 3713
Ion Ratio Lower Upper
58 100
43 290.2 268.9 403.3



#23
tert-Butyl Alcohol
Concen: 0.543 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 59 Resp: 565
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 29.955 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087601.D

Acq: 18 Aug 2025 12:42

Instrument :

MSVOA_N

ClientSampleId :

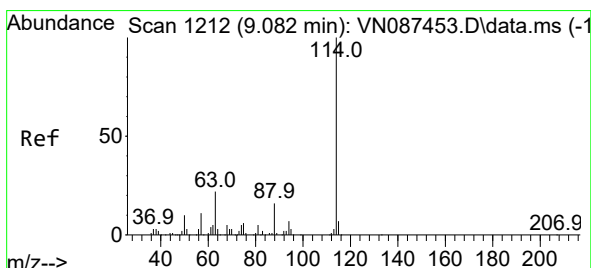
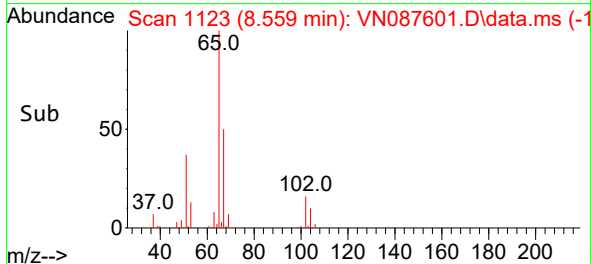
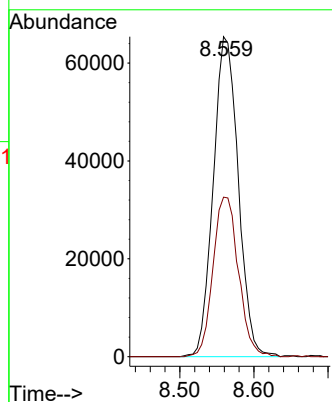
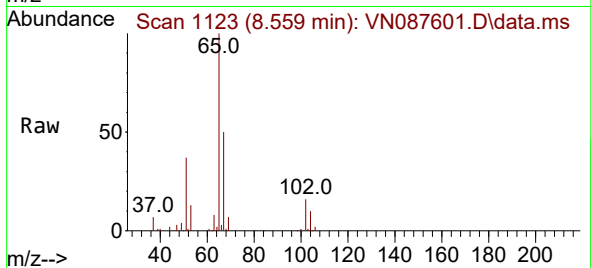
002 35th Ave (july)DL

Tgt Ion: 65 Resp: 153196

Ion Ratio Lower Upper

65 100

67 50.7 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087601.D

Acq: 18 Aug 2025 12:42

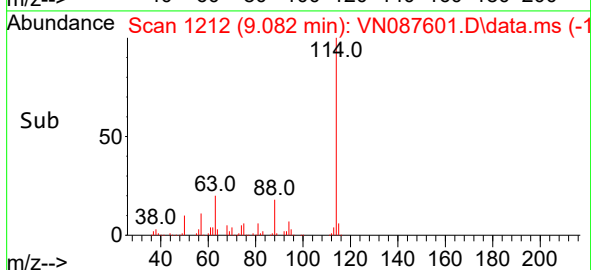
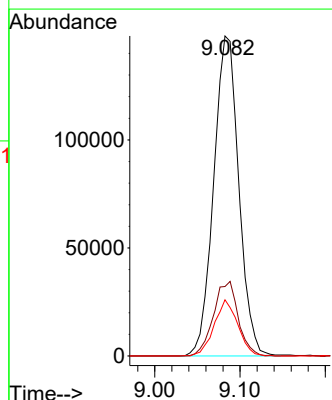
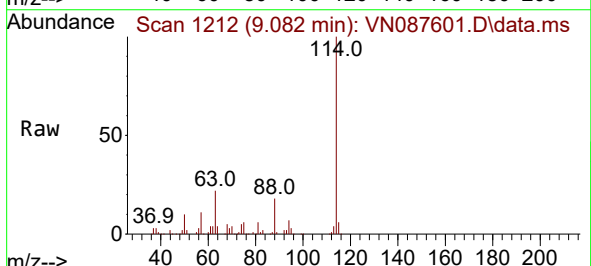
Tgt Ion: 114 Resp: 303389

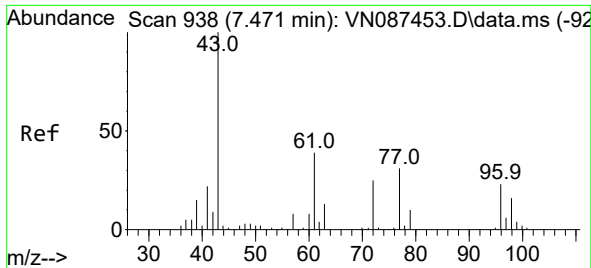
Ion Ratio Lower Upper

114 100

63 23.0 18.9 28.3

88 16.5 13.1 19.7

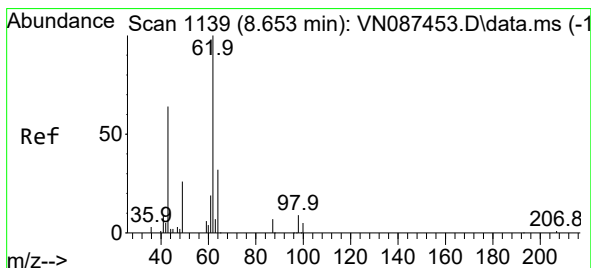
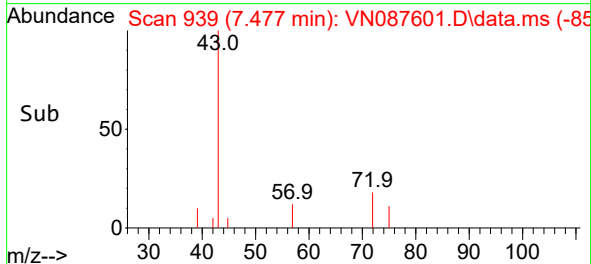
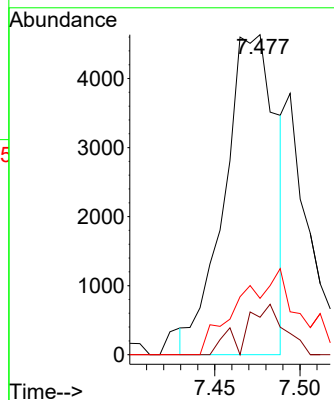
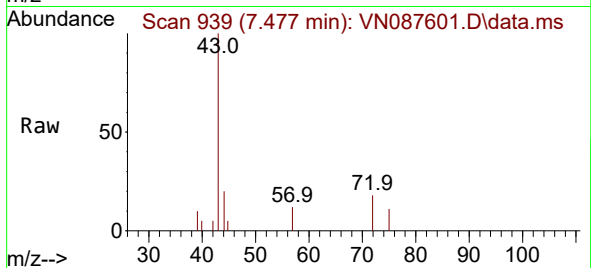




#30
2-Butanone
Concen: 2.682 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

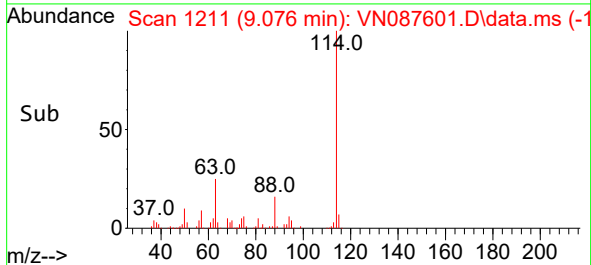
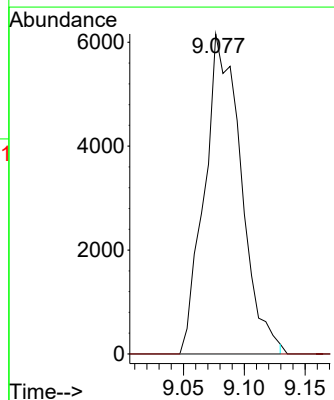
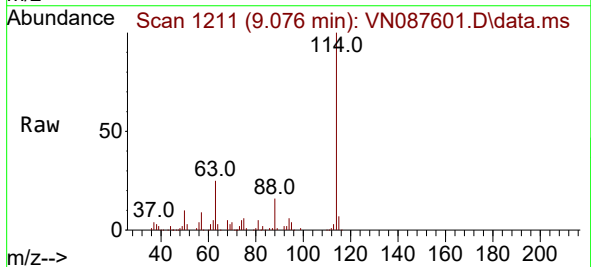
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ClientSampleId :
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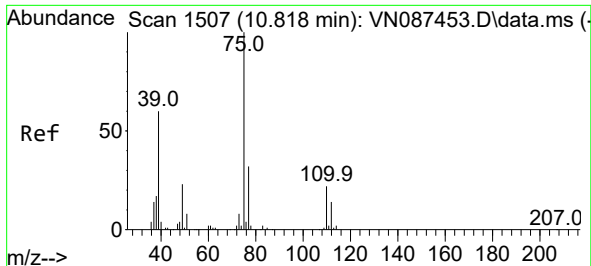
Tgt Ion: 43 Resp: 9784
Ion Ratio Lower Upper
43 100
57 0.0 6.6 9.8#
72 9.4 19.7 29.5#



#36
1,2-Dichloroethane
Concen: 2.036 ug/l
RT: 9.076 min Scan# 1211
Delta R.T. 0.423 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 62 Resp: 12855
Ion Ratio Lower Upper
62 100
98 0.0 6.6 9.8#

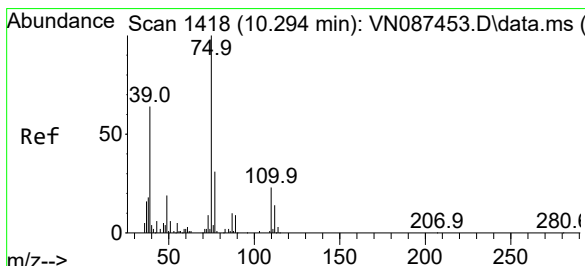
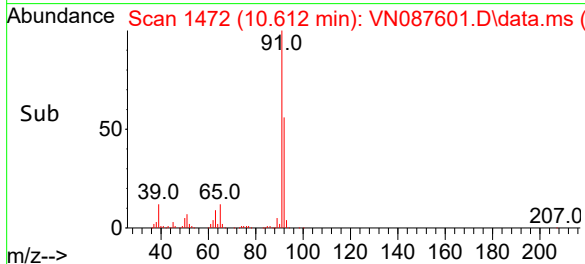
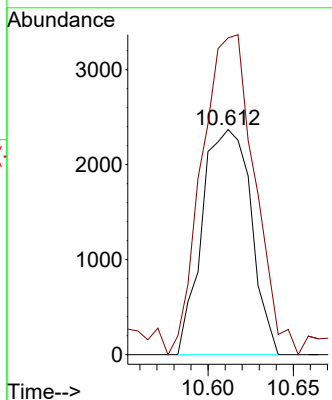
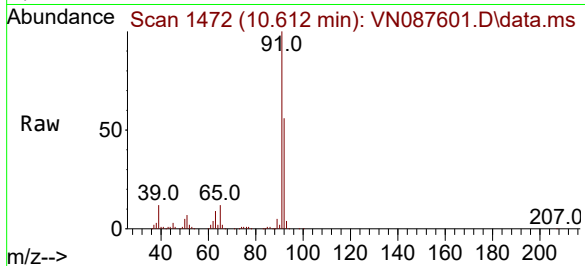




#48
t-1,3-Dichloropropene
Concen: 0.696 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.206 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

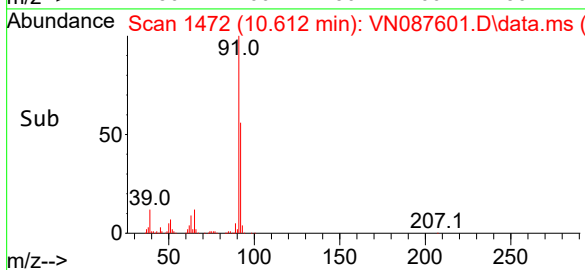
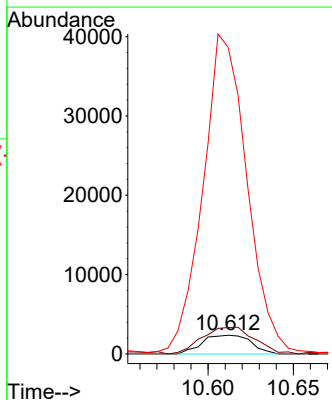
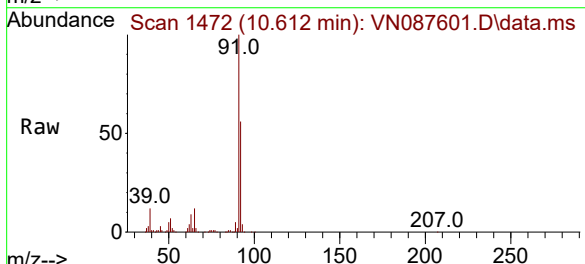
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002 35th Ave (july)DL

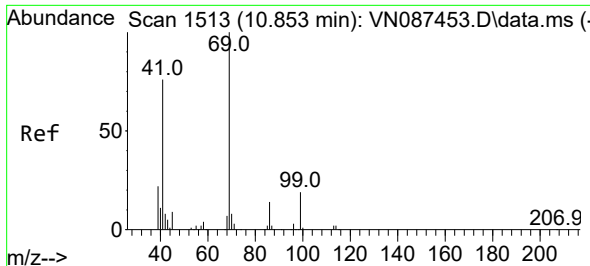
Tgt Ion: 75 Resp: 4726
Ion Ratio Lower Upper
75 100
77 132.3 25.3 37.9#



#49
cis-1,3-Dichloropropene
Concen: 0.691 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.318 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 75 Resp: 4726
Ion Ratio Lower Upper
75 100
77 132.3 24.6 36.8#
39 1537.3 51.5 77.3#

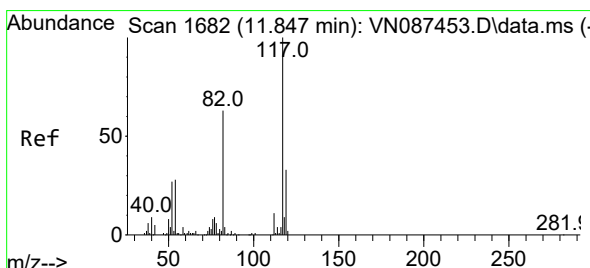
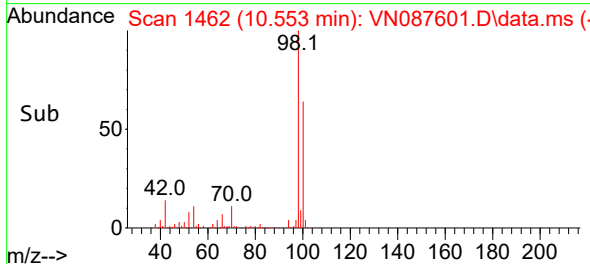
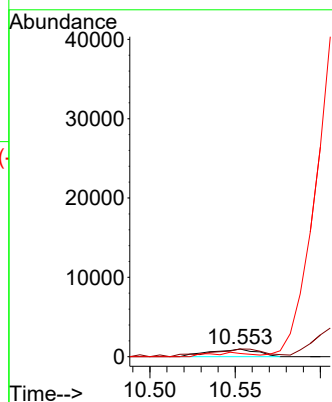
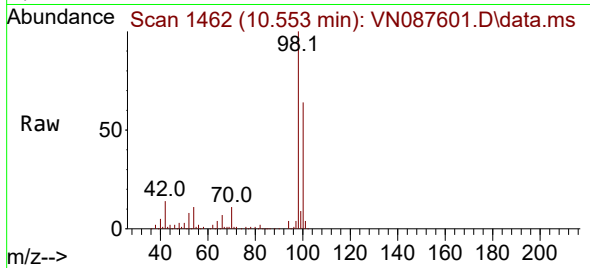




#51
Ethyl methacrylate
Concen: 0.282 ug/l
RT: 10.553 min Scan# 14
Delta R.T. -0.300 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

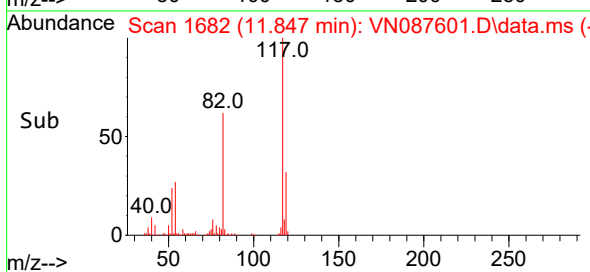
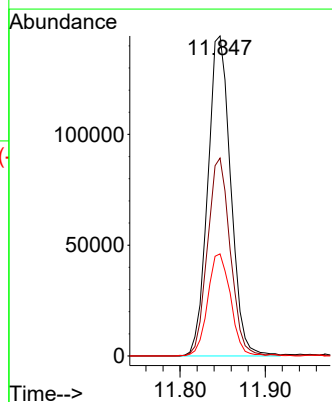
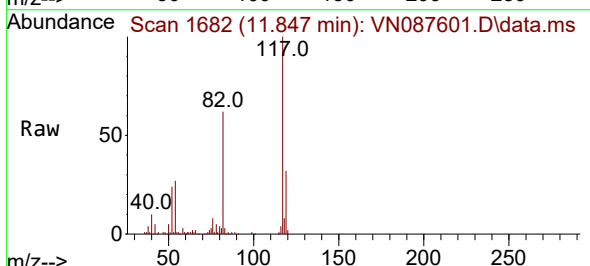
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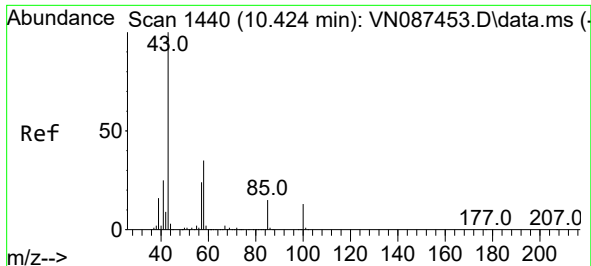
Tgt Ion: 69 Resp: 1885
Ion Ratio Lower Upper
69 100
41 71.7 38.0 114.1
39 42.2 23.2 69.5



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 117 Resp: 270310
Ion Ratio Lower Upper
117 100
82 61.2 49.2 73.8
119 31.8 25.7 38.5

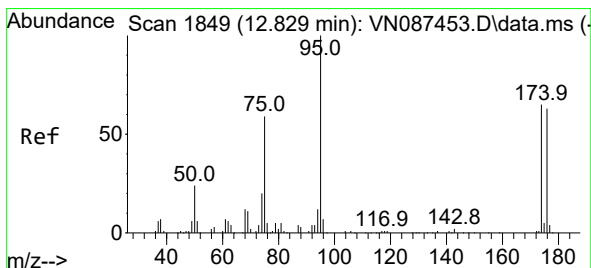
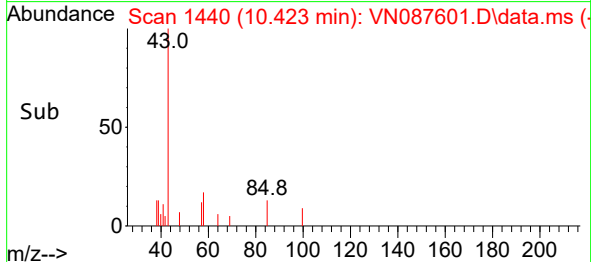
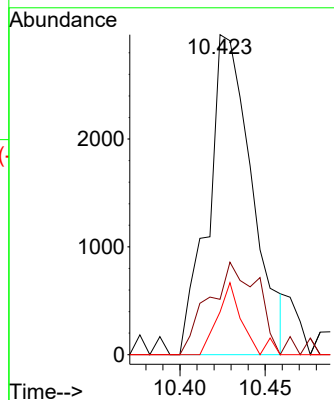
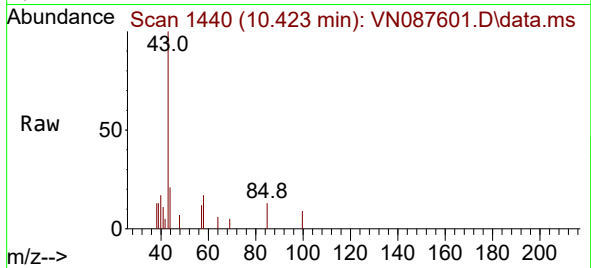




#58
4-Methyl-2-Pentanone
Concen: 0.759 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

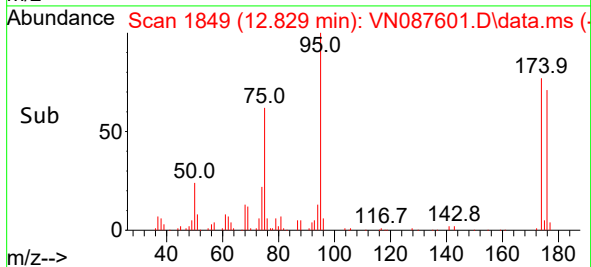
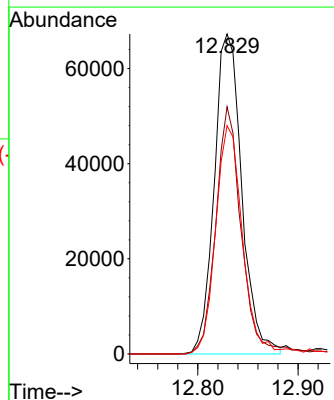
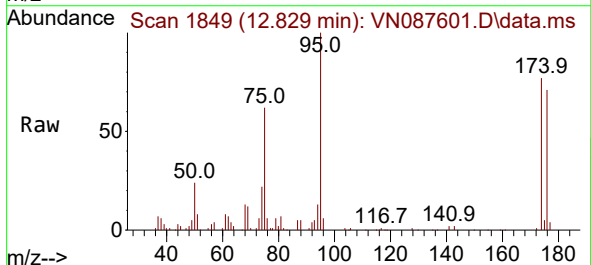
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)DL

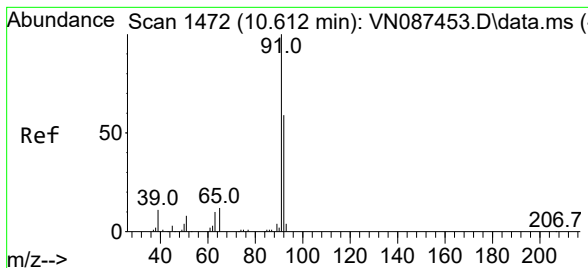
Tgt Ion: 43 Resp: 5281
Ion Ratio Lower Upper
43 100
58 14.5 29.0 43.6#
85 11.8 12.7 19.1#



#60
4-Bromofluorobenzene
Concen: 27.597 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087601.D
Acq: 18 Aug 2025 12:42

Tgt Ion: 95 Resp: 128376
Ion Ratio Lower Upper
95 100
174 71.0 52.3 78.5
176 68.6 49.8 74.8





#62

Toluene

Concen: 35.518 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VN087601.D

Acq: 18 Aug 2025 12:42

Instrument :

MSVOA_N

ClientSampleId :

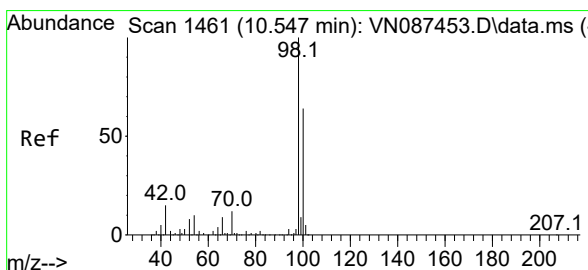
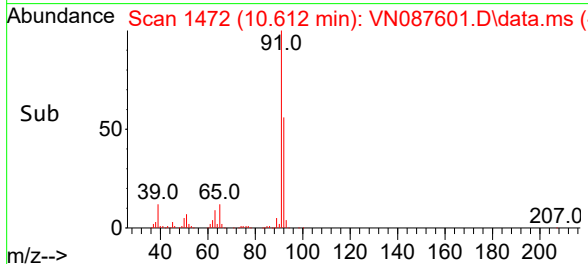
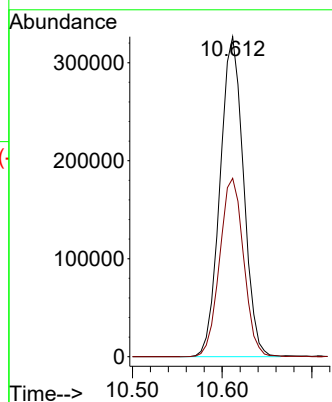
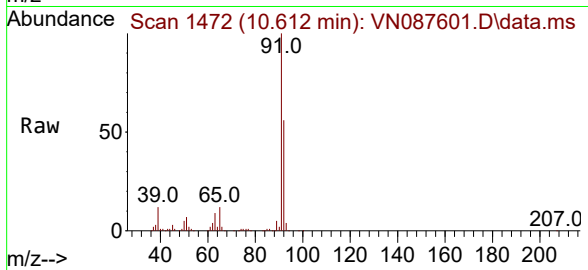
002 35th Ave (july)DL

Tgt Ion: 91 Resp: 592568

Ion Ratio Lower Upper

91 100

92 56.9 45.8 68.6



#63

Toluene-d8

Concen: 30.161 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087601.D

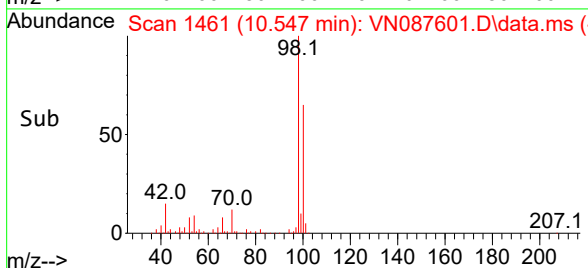
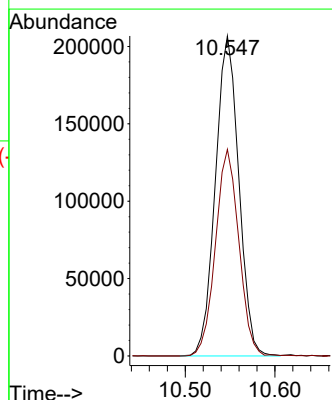
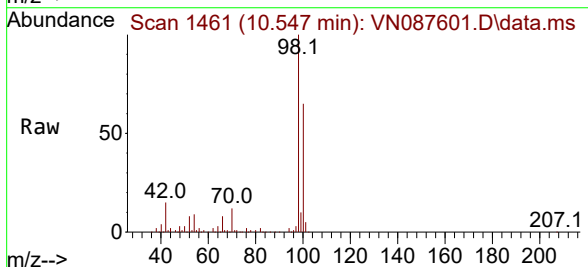
Acq: 18 Aug 2025 12:42

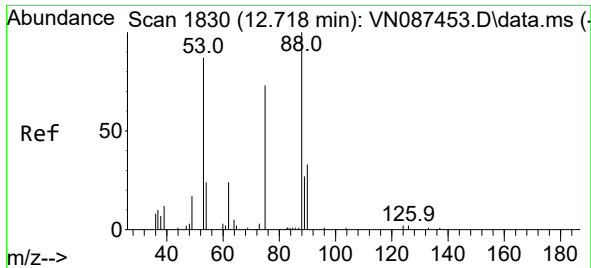
Tgt Ion: 98 Resp: 375129

Ion Ratio Lower Upper

98 100

100 64.2 50.5 75.7

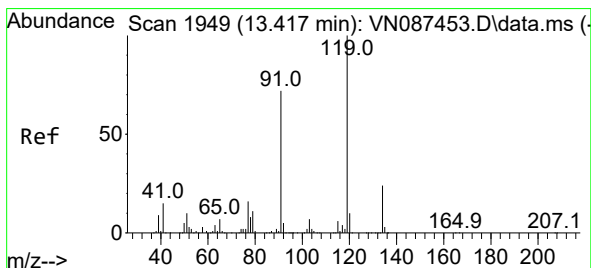
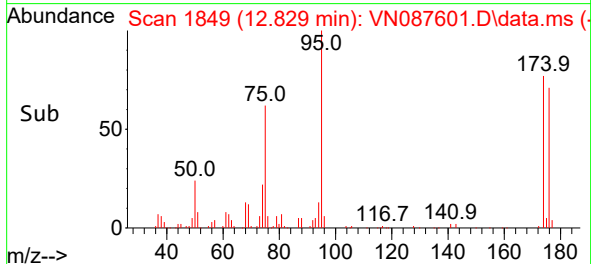
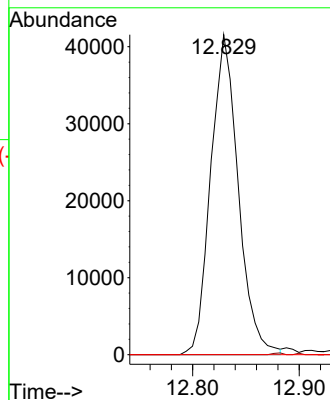
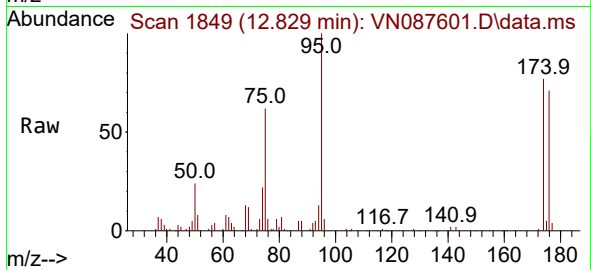




#77
 t-1,4-Dichloro-2-butene
 Concen: 36.238 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087601.D
 Acq: 18 Aug 2025 12:42

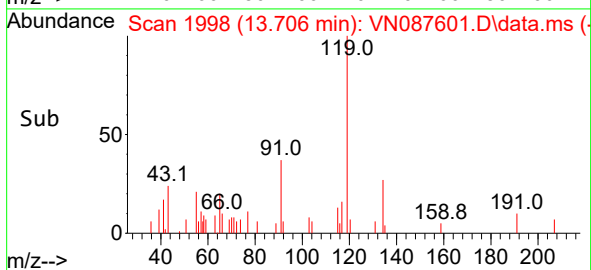
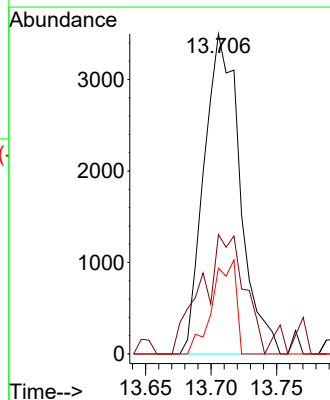
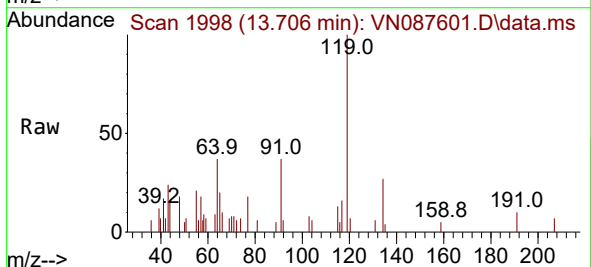
Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (july)DL

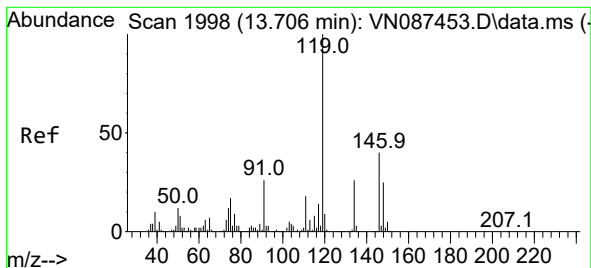
Tgt Ion: 75 Resp: 74701
 Ion Ratio Lower Upper
 75 100
 53 0.0 59.0 176.8#
 89 0.0 22.1 66.5#



#79
 tert-butylbenzene
 Concen: 0.543 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.288 min
 Lab File: VN087601.D
 Acq: 18 Aug 2025 12:42

Tgt Ion: 119 Resp: 6692
 Ion Ratio Lower Upper
 119 100
 91 29.2 0.0 141.6
 134 19.2 0.0 45.6





#82

p-Isopropyltoluene

Concen: 0.450 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.000 min

Lab File: VN087601.D

Acq: 18 Aug 2025 12:42

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (july)DL

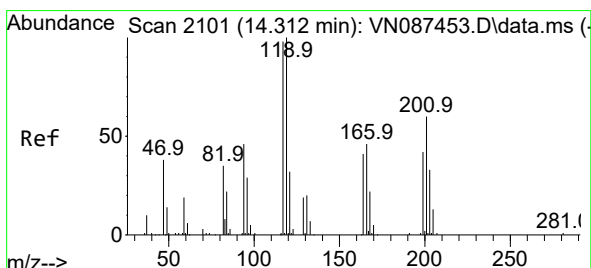
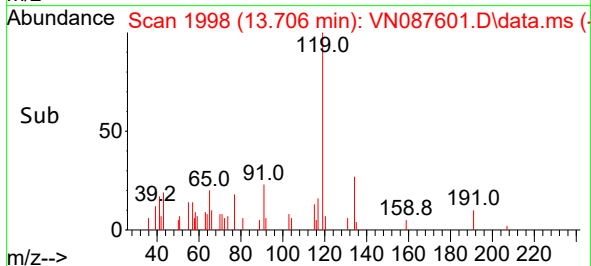
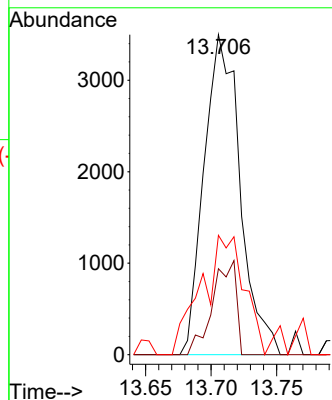
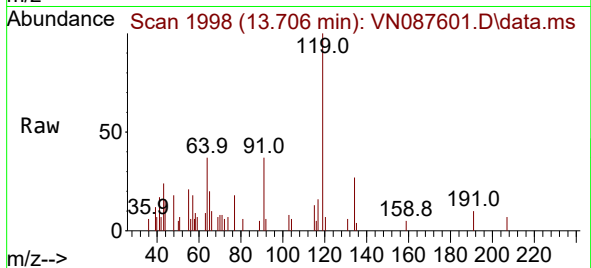
Tgt Ion:119 Resp: 6692

Ion Ratio Lower Upper

119 100

134 19.2 0.0 51.4

91 29.2 0.0 52.0



#86

Hexachloroethane

Concen: 0.264 ug/l

RT: 14.411 min Scan# 2118

Delta R.T. 0.100 min

Lab File: VN087601.D

Acq: 18 Aug 2025 12:42

Tgt Ion:117 Resp: 767

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#

