

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086727.D
 Acq On : 21 May 2025 13:29
 Operator : JC\MD
 Sample : Q2068-01 20X
 Misc : 2.31g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0075

Quant Time: May 22 01:22:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

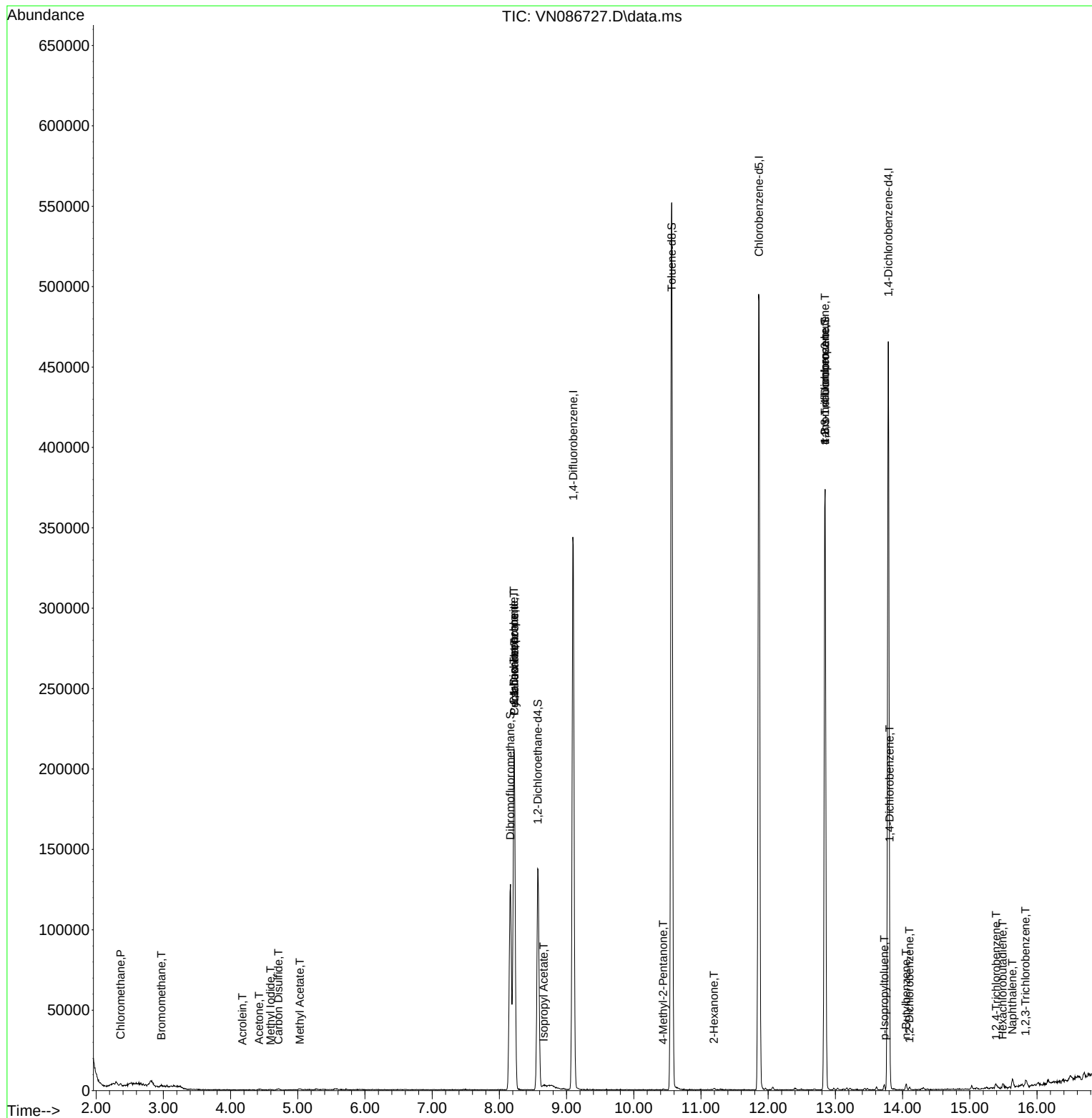
Internal Standards						
1) Pentafluorobenzene	8.224	168	158035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307853	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299546	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	113577	52.010	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 104.020%		
35) Dibromofluoromethane	8.165	113	96358	52.557	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 105.120%		
50) Toluene-d8	10.565	98	398952	52.510	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 105.020%		
62) 4-Bromofluorobenzene	12.847	95	140785	52.479	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 104.960%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1511	0.585	ug/l	90
5) Bromomethane	2.971	94	638	0.477	ug/l	94
10) Methyl Iodide	4.595	142	858	0.416	ug/l #	43
13) Acrolein	4.177	56	122	0.287	ug/l #	76
16) Acetone	4.424	43	463	0.567	ug/l #	42
17) Carbon Disulfide	4.712	76	1654	0.339	ug/l #	75
18) Methyl Acetate	5.030	43	1311	0.573	ug/l #	49
31) Cyclohexane	8.224	56	3362	1.026	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13059	4.829	ug/l #	49
38) Carbon Tetrachloride	8.218	117	15671	5.881	ug/l #	14
43) Isopropyl Acetate	8.659	43	2301	0.420	ug/l #	54
51) 4-Methyl-2-Pentanone	10.435	43	560	0.203	ug/l #	33
59) 2-Hexanone	11.194	43	833	0.413	ug/l	65
76) 1,2,3-Trichloropropane	12.847	75	69493	24.004	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69493	60.577	ug/l #	15
86) p-Isopropyltoluene	13.729	119	1545	0.203	ug/l	87
88) 1,4-Dichlorobenzene	13.806	146	1134	0.266	ug/l #	57
89) n-Butylbenzene	14.053	91	2704	0.430	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	856	0.209	ug/l	85
93) 1,2,4-Trichlorobenzene	15.394	180	1197	0.692	ug/l	89
94) Hexachlorobutadiene	15.488	225	787	1.097	ug/l	81
95) Naphthalene	15.635	128	6506	1.084	ug/l	98
96) 1,2,3-Trichlorobenzene	15.829	180	1463	0.864	ug/l	84

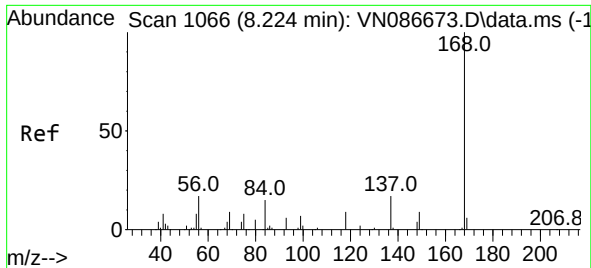
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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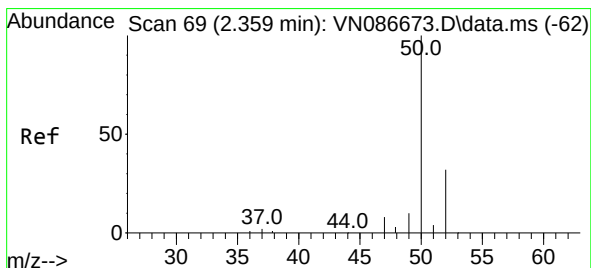
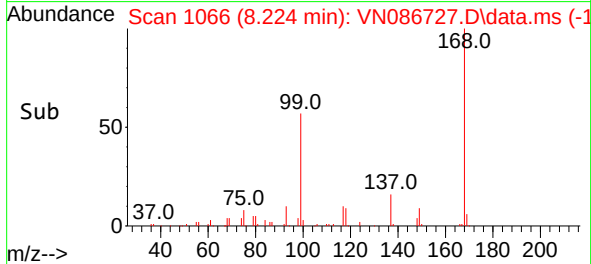
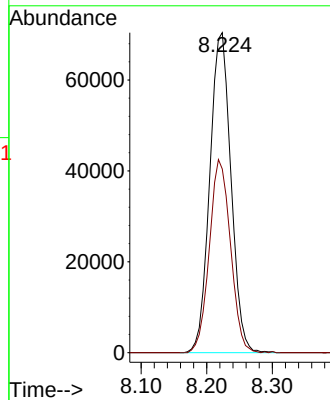
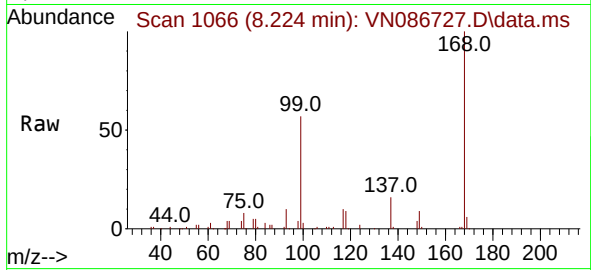




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

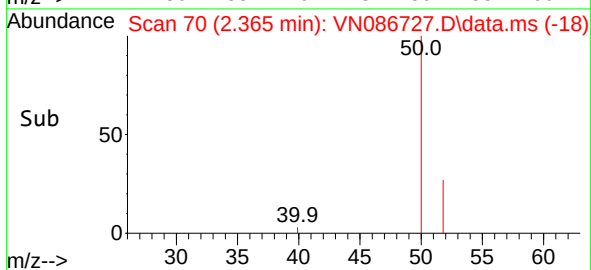
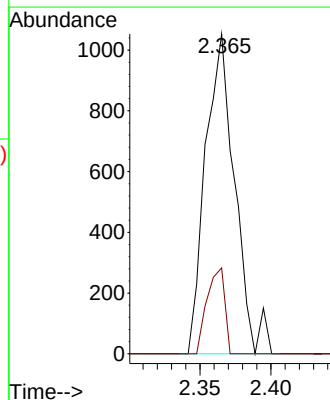
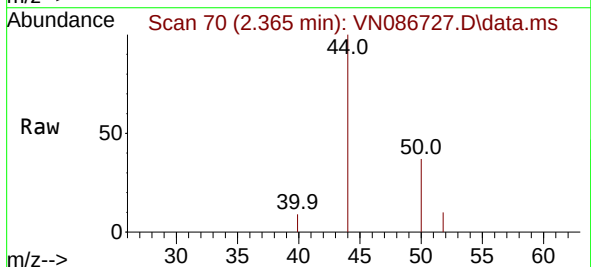
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

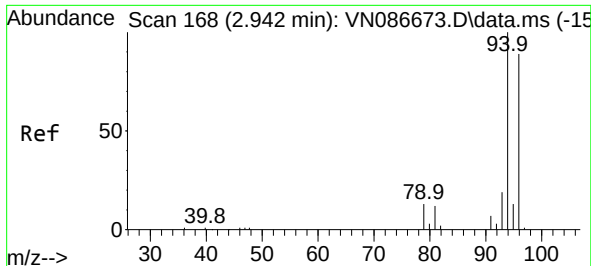
Tgt Ion:168 Resp: 158035
Ion Ratio Lower Upper
168 100
99 57.4 47.0 70.4



#3
Chloromethane
Concen: 0.585 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 50 Resp: 1511
Ion Ratio Lower Upper
50 100
52 26.9 25.9 38.9





#5

Bromomethane

Concen: 0.477 ug/l

RT: 2.971 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

Instrument :

MSVOA_N

ClientSampleId :

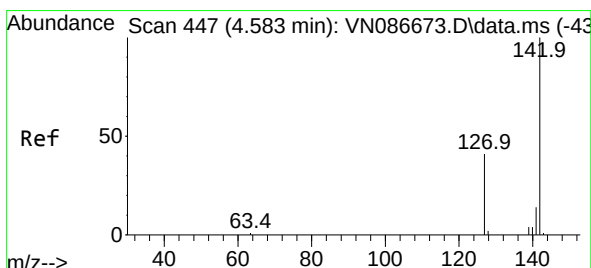
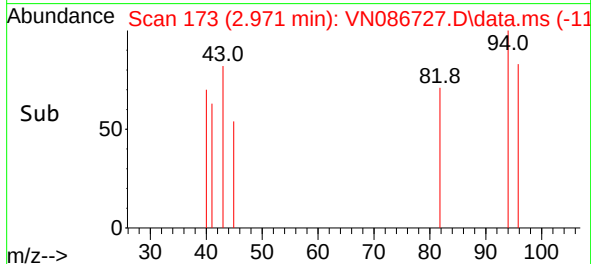
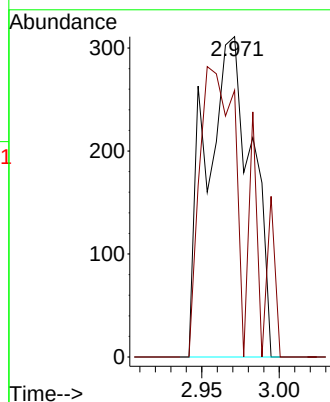
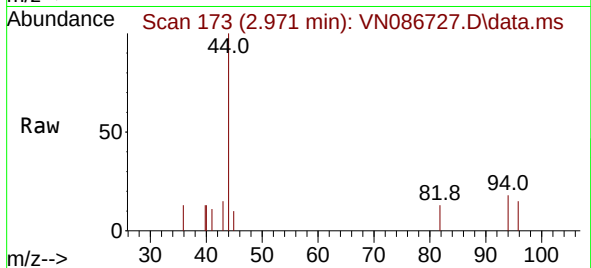
LAW-25-0075

Tgt Ion: 94 Resp: 638

Ion Ratio Lower Upper

94 100

96 83.3 71.2 106.8



#10

Methyl Iodide

Concen: 0.416 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.012 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

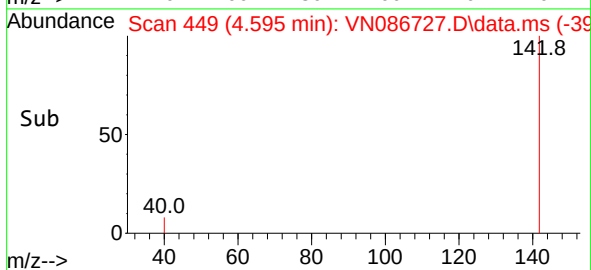
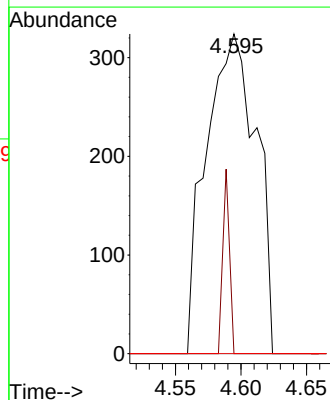
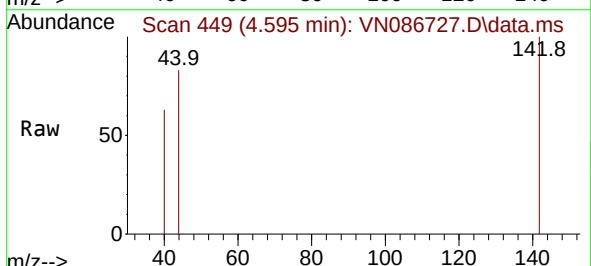
Tgt Ion: 142 Resp: 858

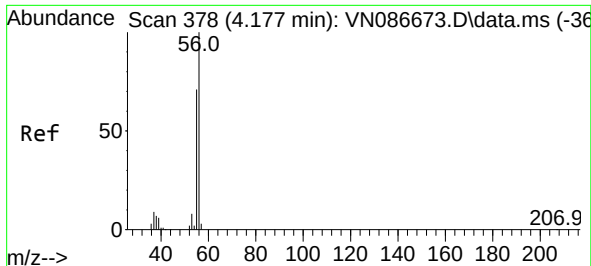
Ion Ratio Lower Upper

142 100

127 0.0 32.4 48.6#

141 0.0 11.4 17.2#





#13

Acrolein

Concen: 0.287 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

Instrument :

MSVOA_N

ClientSampleId :

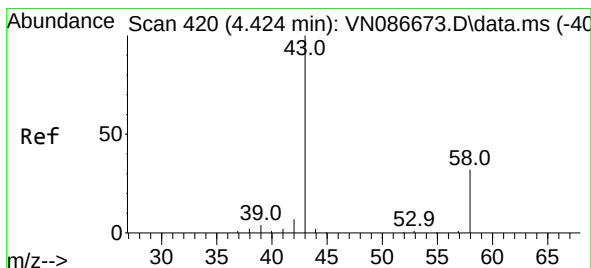
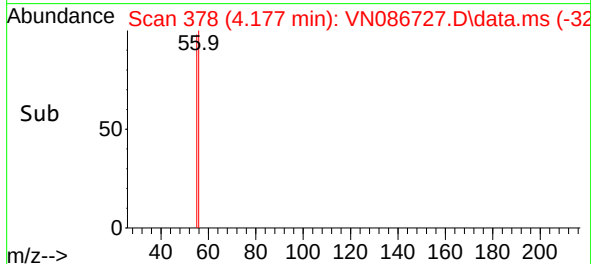
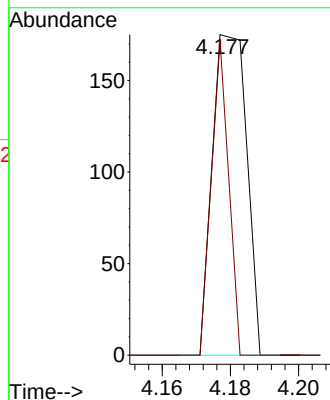
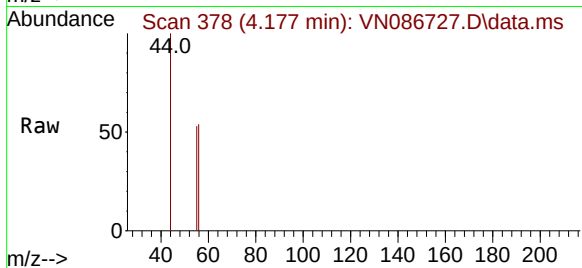
LAW-25-0075

Tgt Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

55 50.0 55.7 83.5#



#16

Acetone

Concen: 0.567 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086727.D

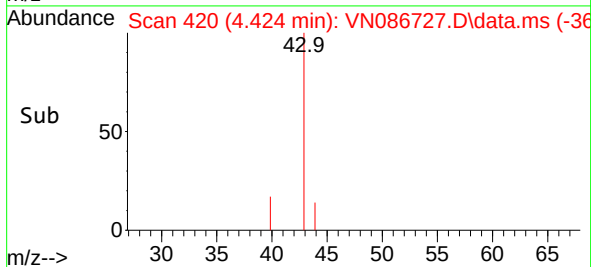
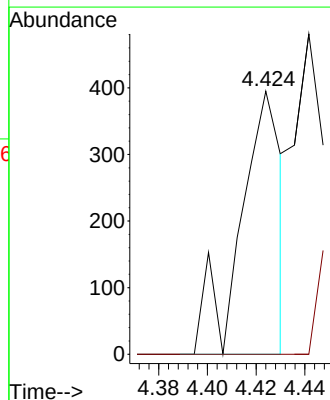
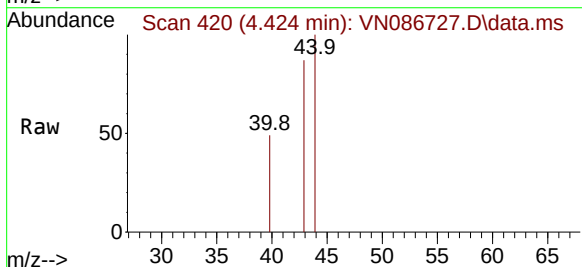
Acq: 21 May 2025 13:29

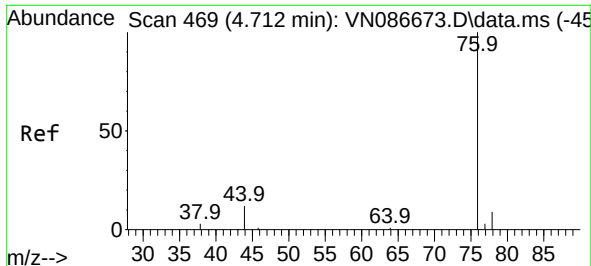
Tgt Ion: 43 Resp: 463

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#

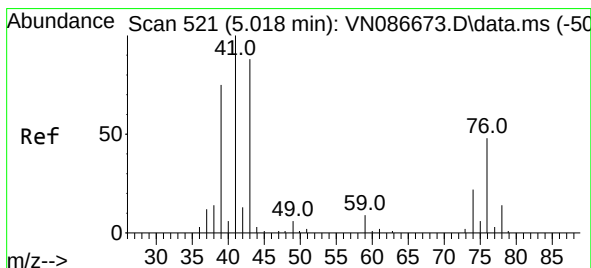
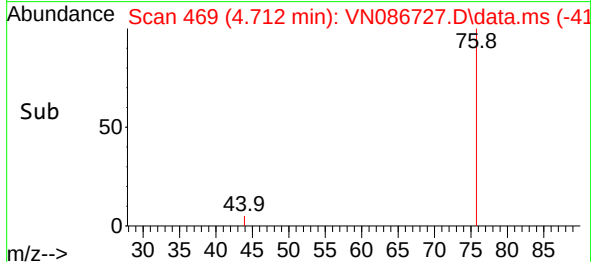
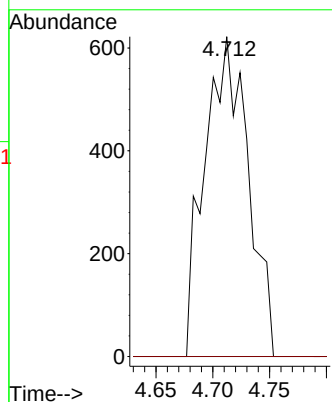
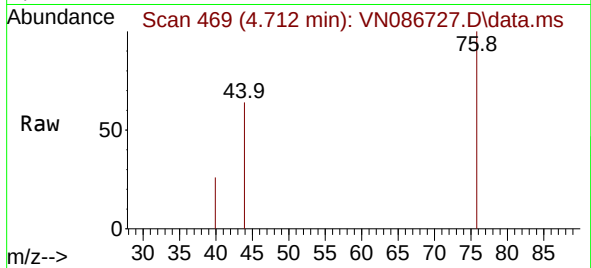




#17
Carbon Disulfide
Concen: 0.339 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

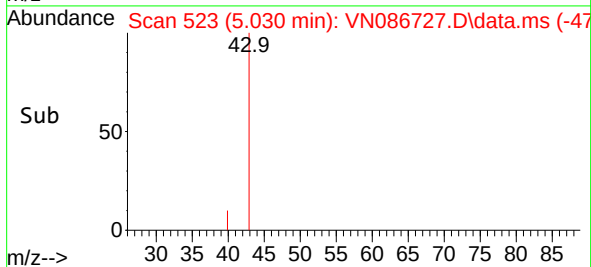
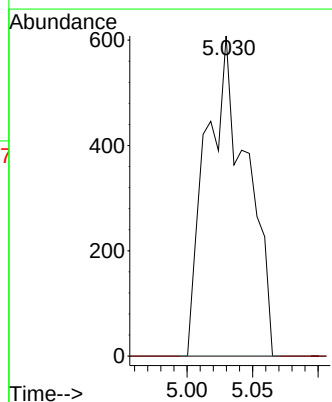
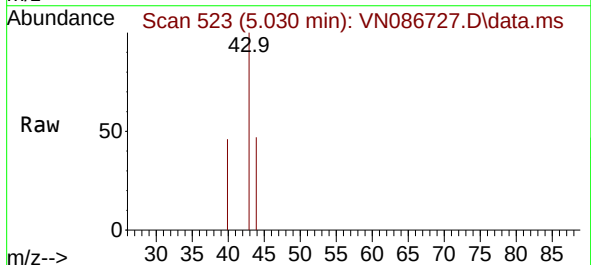
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

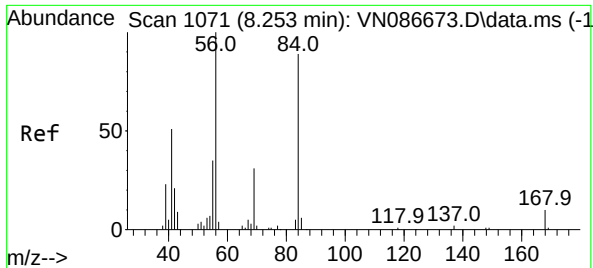
Tgt Ion: 76 Resp: 1654
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 0.573 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 43 Resp: 1311
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#

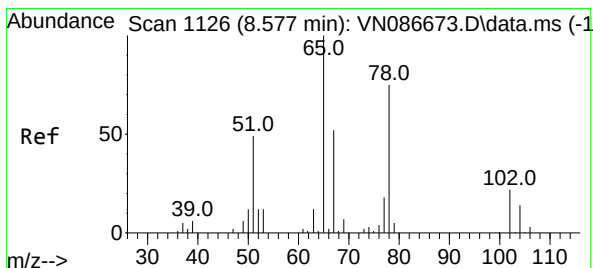
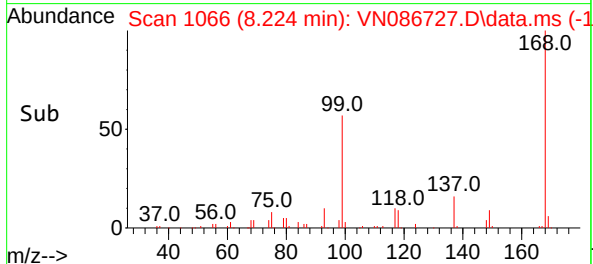
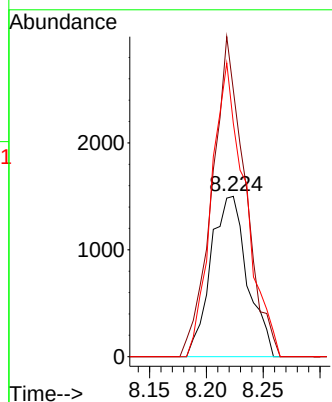
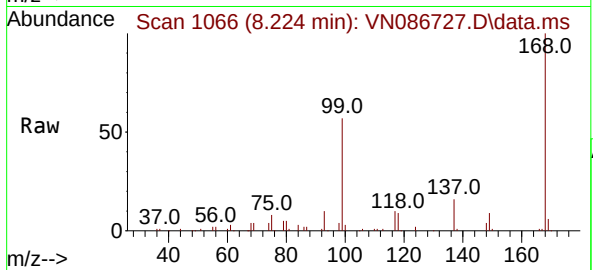




#31
Cyclohexane
Concen: 1.026 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

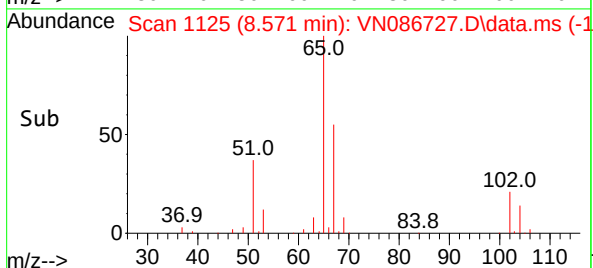
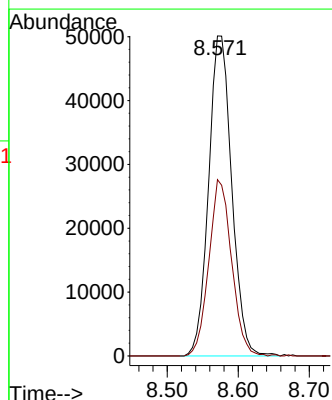
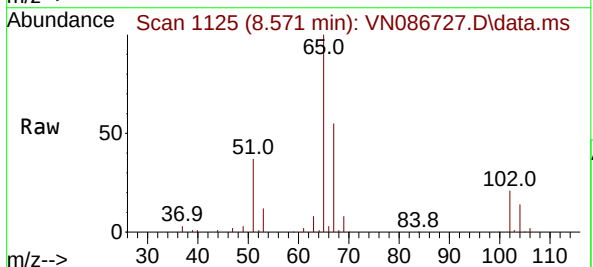
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

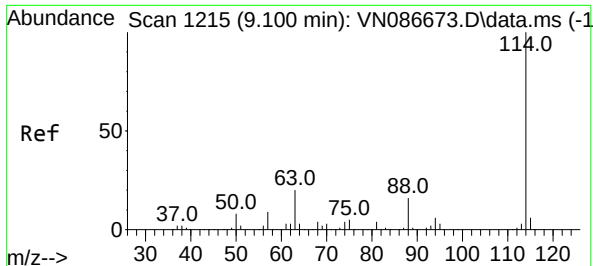
Tgt Ion: 56 Resp: 3362
Ion Ratio Lower Upper
56 100
69 166.3 25.0 37.6#
84 145.6 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 52.010 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 65 Resp: 113577
Ion Ratio Lower Upper
65 100
67 54.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0075

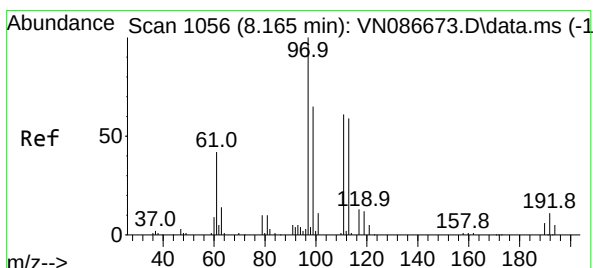
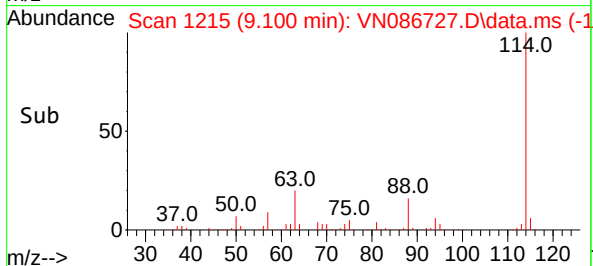
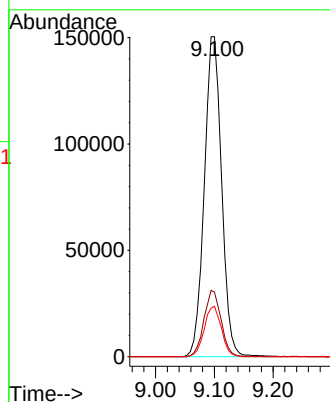
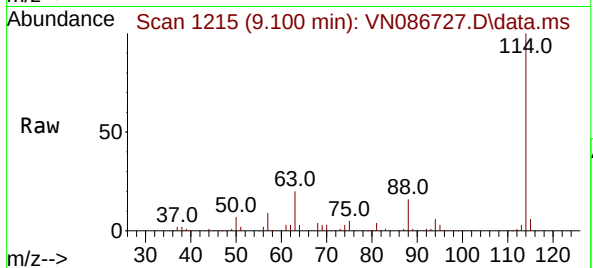
Tgt Ion:114 Resp: 307853

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.2

88 15.7 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.557 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

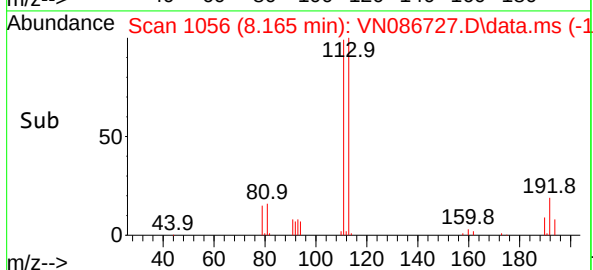
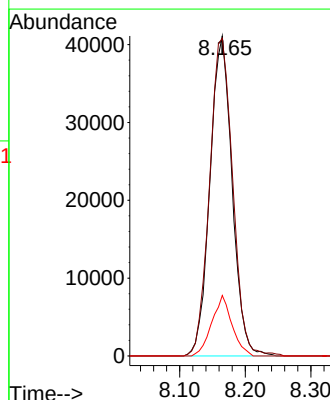
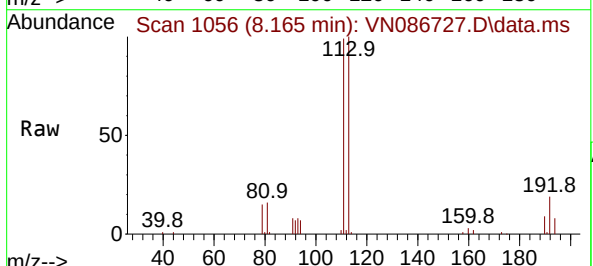
Tgt Ion:113 Resp: 96358

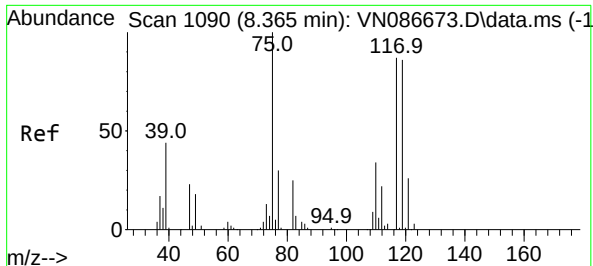
Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.2

192 17.3 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.829 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0075

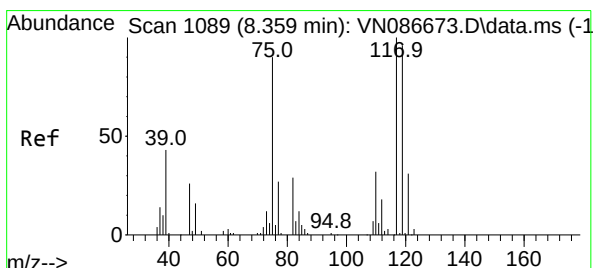
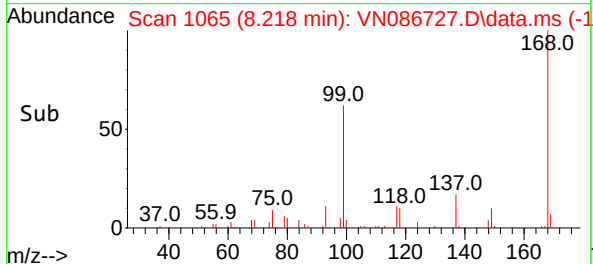
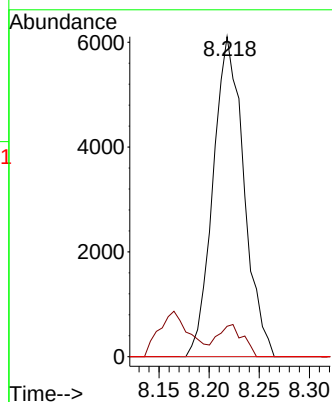
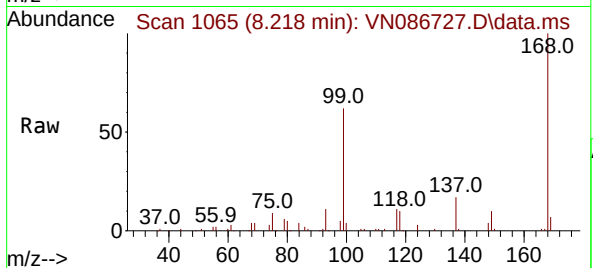
Tgt Ion: 75 Resp: 13059

Ion Ratio Lower Upper

75 100

110 8.0 17.5 52.5#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.881 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

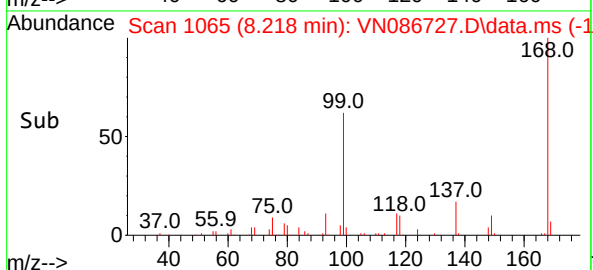
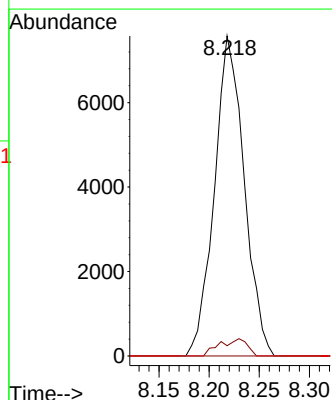
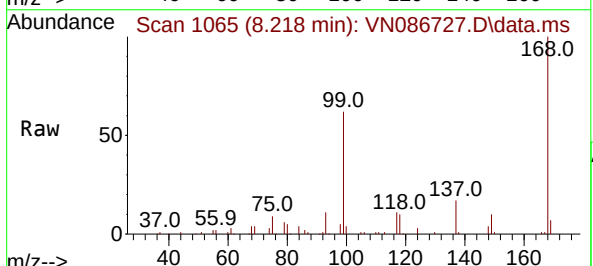
Tgt Ion: 117 Resp: 15671

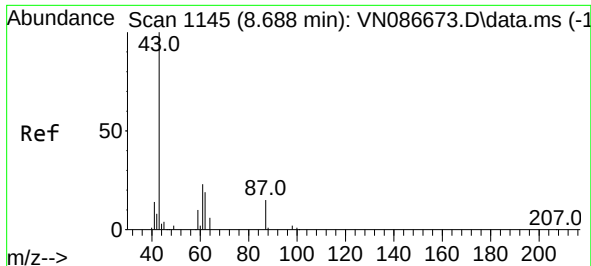
Ion Ratio Lower Upper

117 100

119 3.2 77.0 115.6#

121 0.0 25.0 37.6#

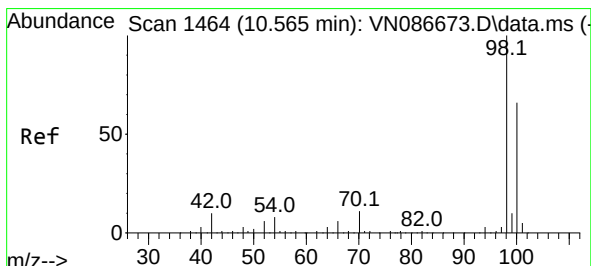
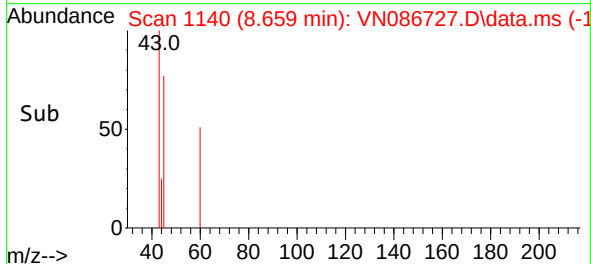
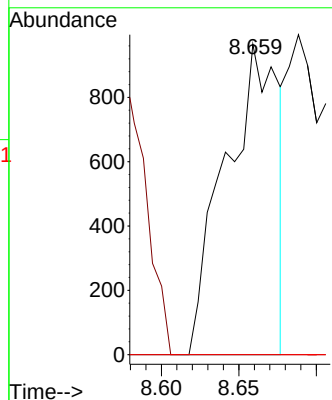
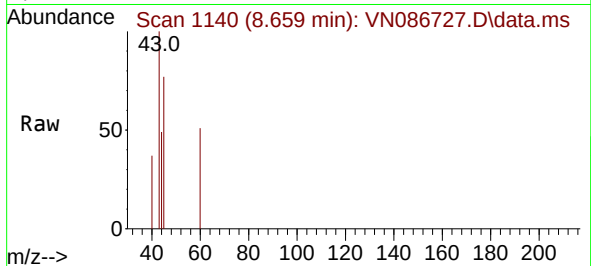




#43
Isopropyl Acetate
Concen: 0.420 ug/l
RT: 8.659 min Scan# 1145
Delta R.T. -0.029 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

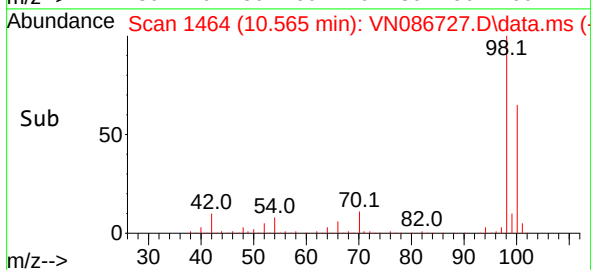
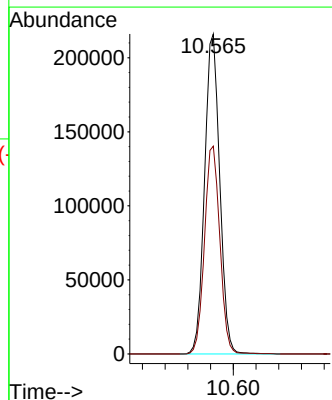
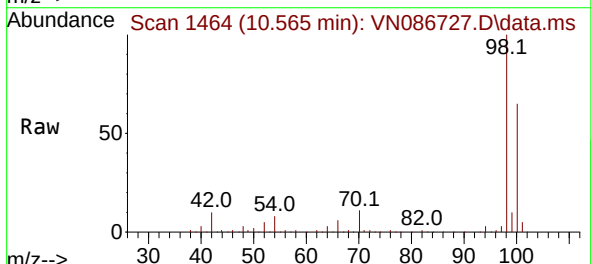
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

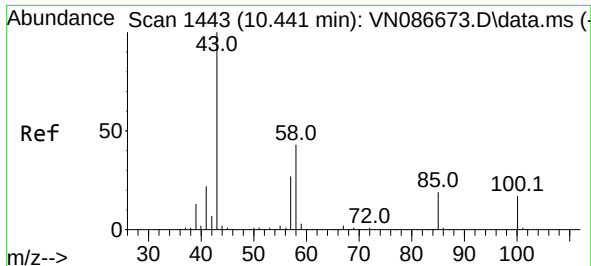
Tgt Ion: 43 Resp: 2301
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.2#
87 0.0 11.1 16.7#



#50
Toluene-d8
Concen: 52.510 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 98 Resp: 398952
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3

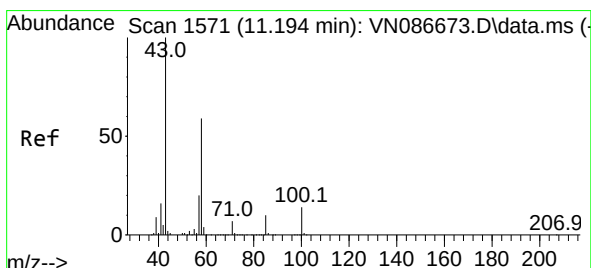
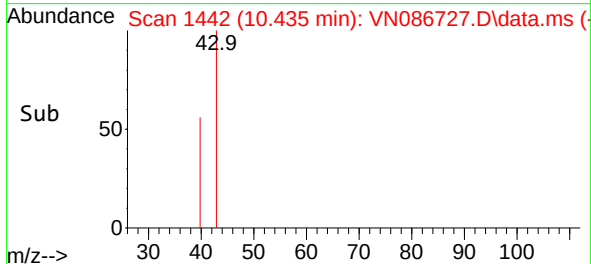
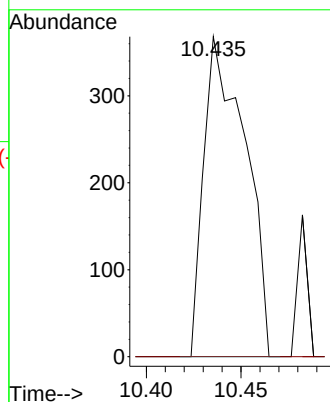
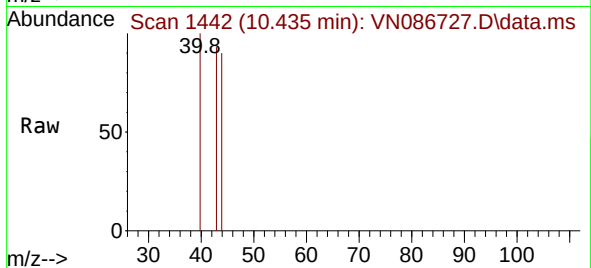




#51
4-Methyl-2-Pentanone
Concen: 0.203 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

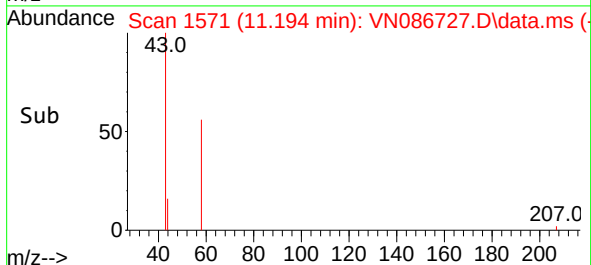
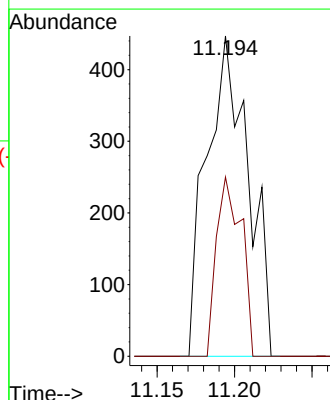
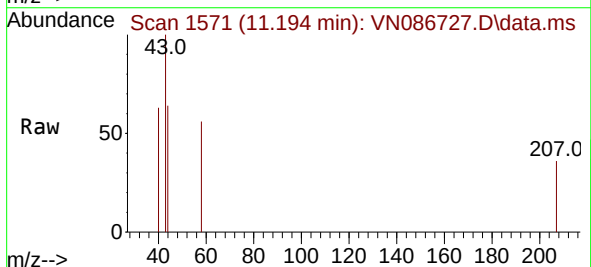
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

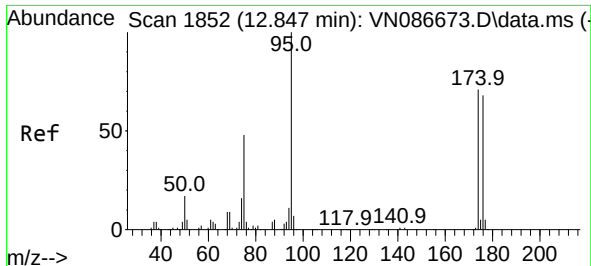
Tgt Ion: 43 Resp: 560
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#59
2-Hexanone
Concen: 0.413 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 43 Resp: 833
Ion Ratio Lower Upper
43 100
58 33.6 29.8 89.5

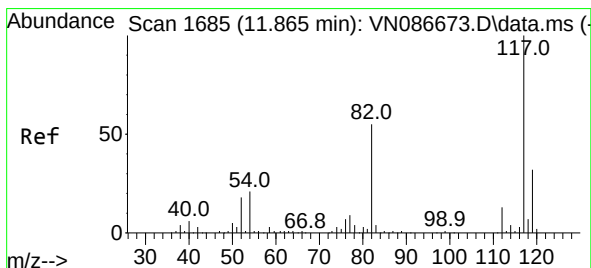
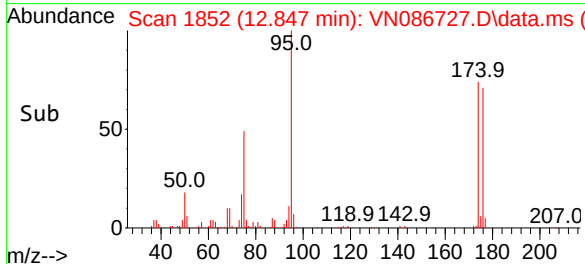
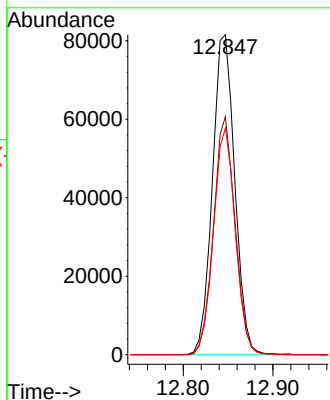
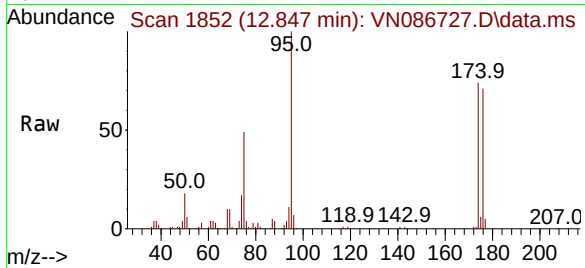




#62
4-Bromofluorobenzene
Concen: 52.479 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

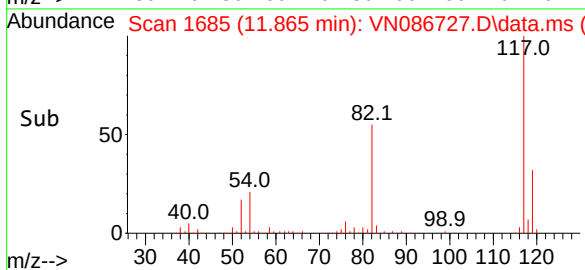
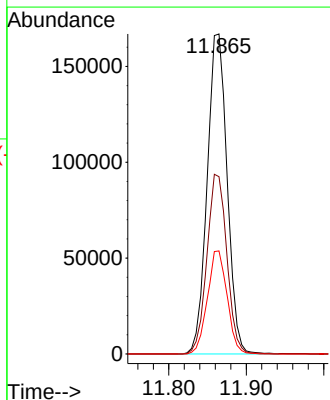
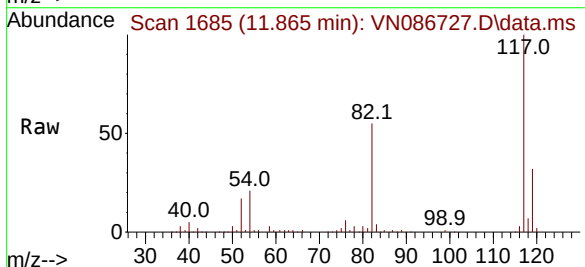
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

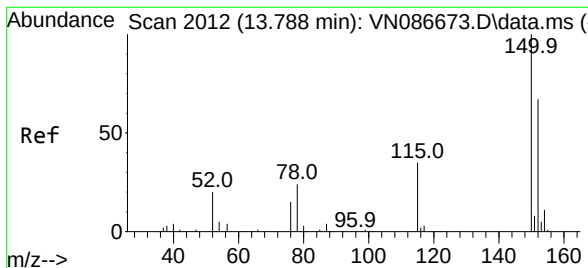
Tgt Ion: 95 Resp: 140785
Ion Ratio Lower Upper
95 100
174 72.0 0.0 145.4
176 68.9 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 117 Resp: 299546
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 32.2 25.4 38.2

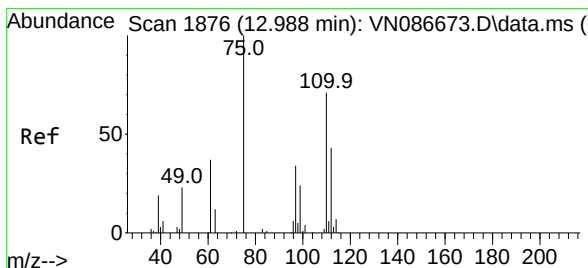
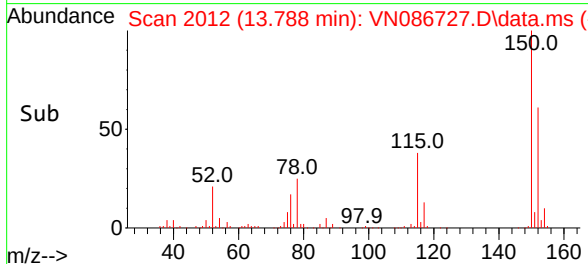
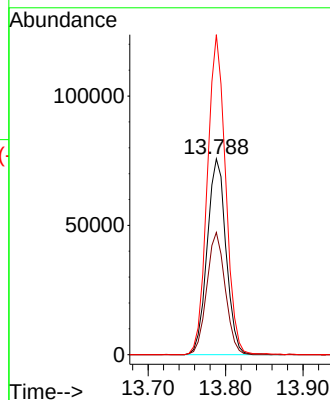
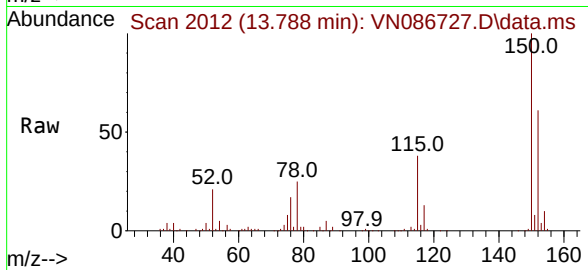




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086727.D
 Acq: 21 May 2025 13:29

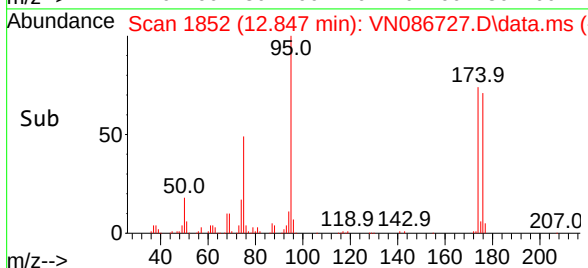
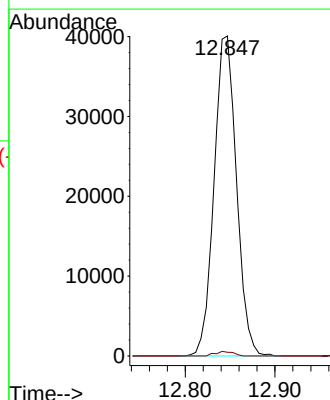
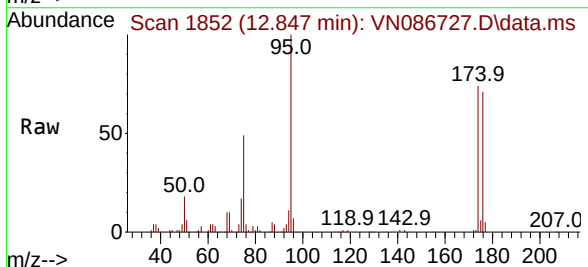
Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0075

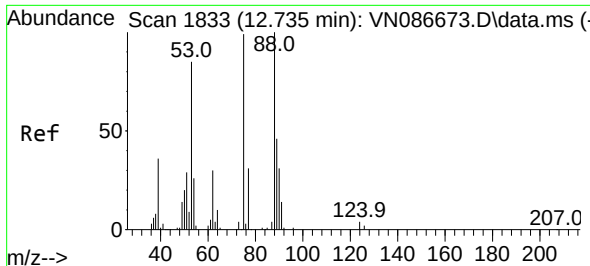
Tgt Ion:152 Resp: 128011
 Ion Ratio Lower Upper
 152 100
 115 61.1 30.0 90.1
 150 158.1 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 24.004 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086727.D
 Acq: 21 May 2025 13:29

Tgt Ion: 75 Resp: 69493
 Ion Ratio Lower Upper
 75 100
 77 1.1 96.0 288.1#

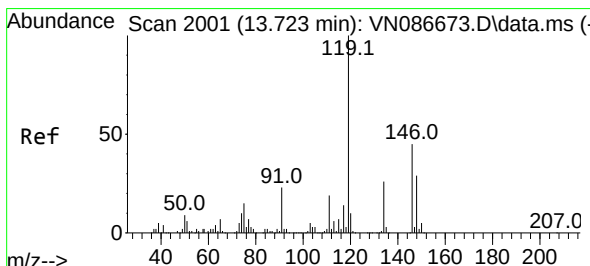
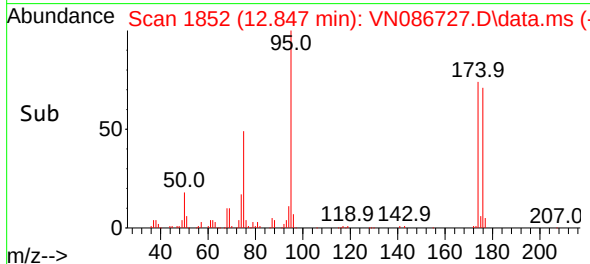
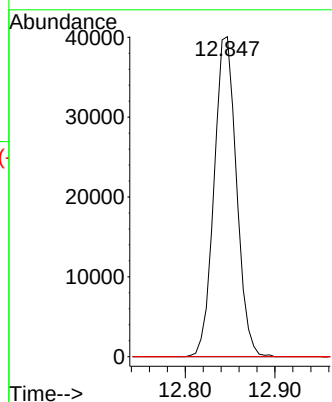
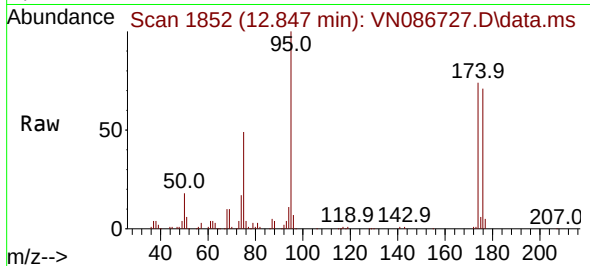




#81
trans-1,4-Dichloro-2-butene
Concen: 60.577 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

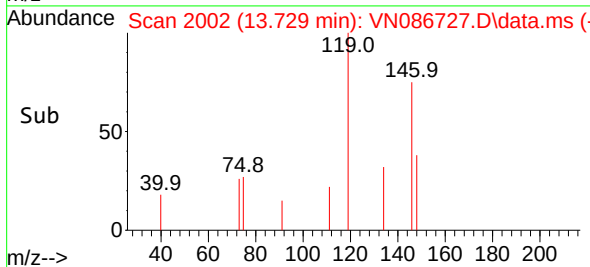
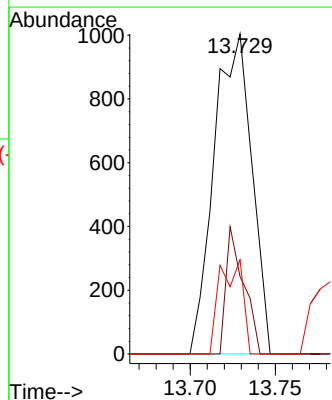
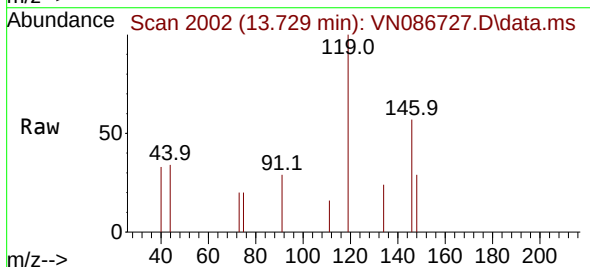
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

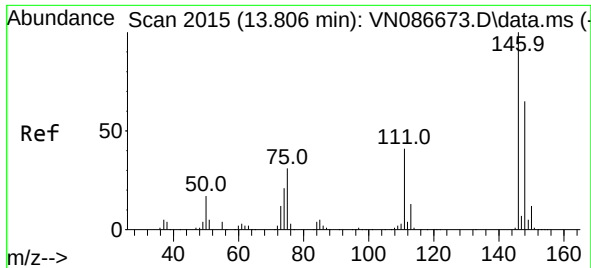
Tgt Ion: 75 Resp: 69493
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#



#86
p-Isopropyltoluene
Concen: 0.203 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 119 Resp: 1545
Ion Ratio Lower Upper
119 100
134 18.6 13.1 39.1
91 17.9 11.5 34.5

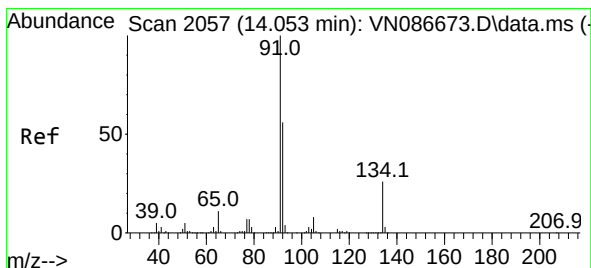
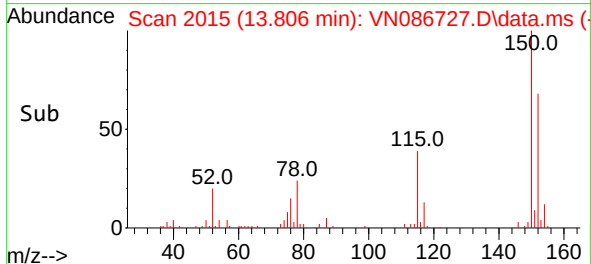
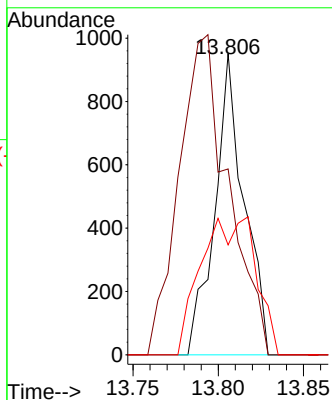
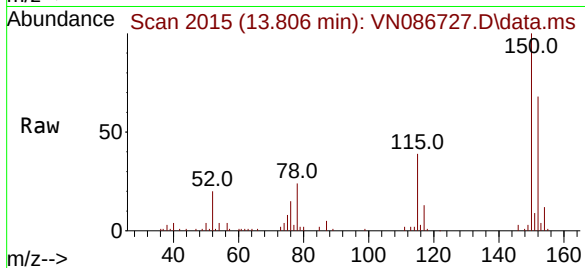




#88
1,4-Dichlorobenzene
Concen: 0.266 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

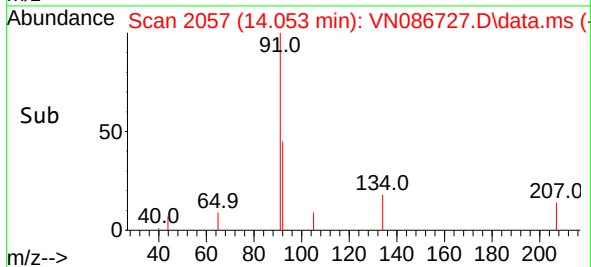
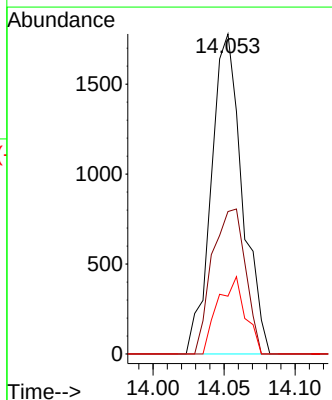
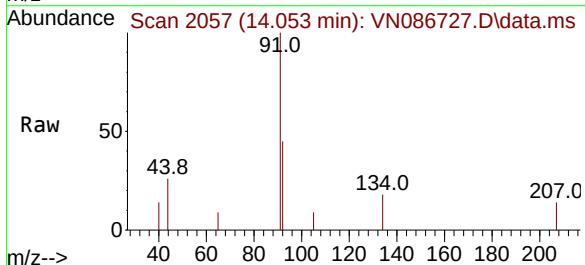
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

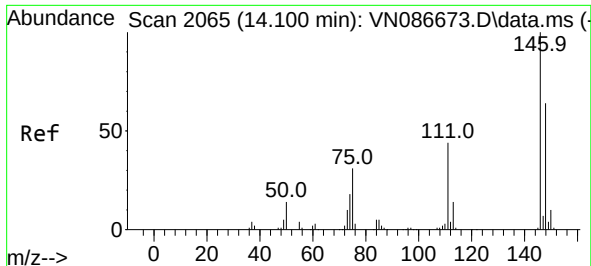
Tgt Ion:146 Resp: 1134
Ion Ratio Lower Upper
146 100
111 0.0 20.6 61.8#
148 86.2 32.0 96.0



#89
n-Butylbenzene
Concen: 0.430 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

Tgt Ion: 91 Resp: 2704
Ion Ratio Lower Upper
91 100
92 48.5 27.4 82.0
134 21.3 12.8 38.4





#91

1,2-Dichlorobenzene

Concen: 0.209 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0075

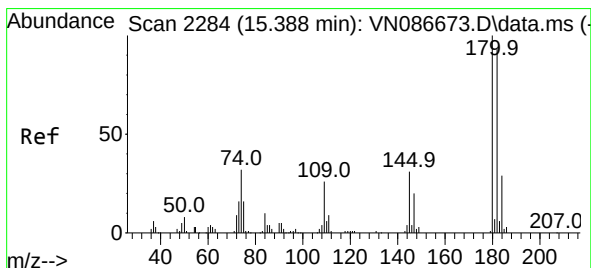
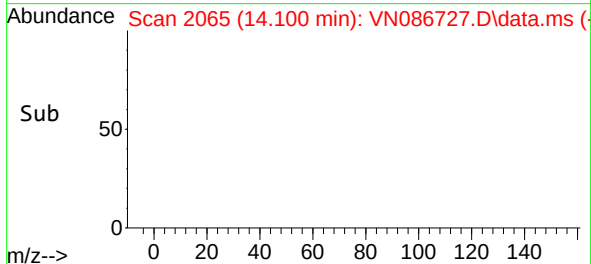
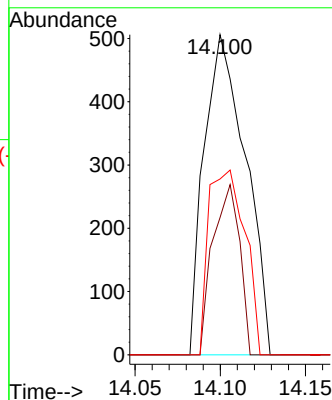
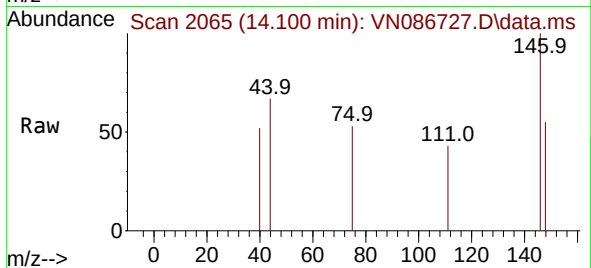
Tgt Ion:146 Resp: 856

Ion Ratio Lower Upper

146 100

111 34.3 21.6 65.0

148 50.6 31.7 95.1



#93

1,2,4-Trichlorobenzene

Concen: 0.692 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN086727.D

Acq: 21 May 2025 13:29

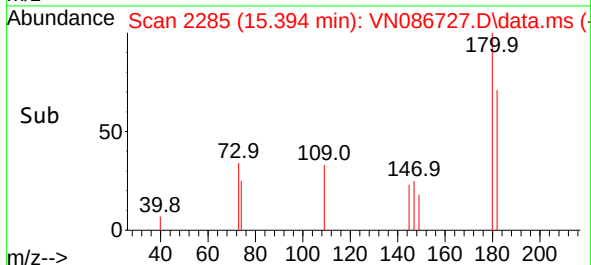
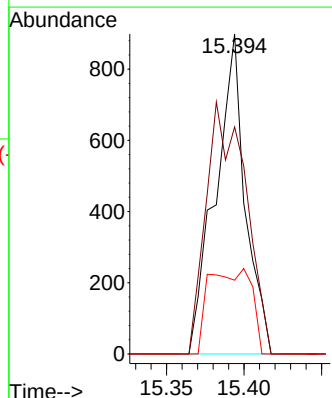
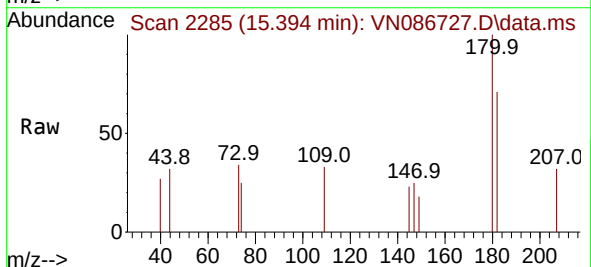
Tgt Ion:180 Resp: 1197

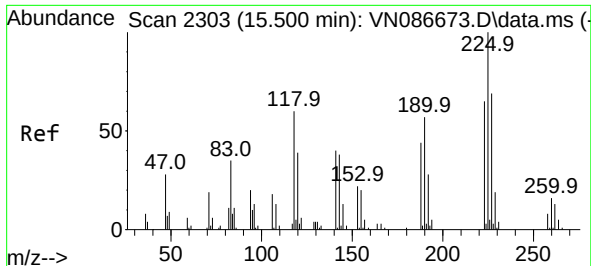
Ion Ratio Lower Upper

180 100

182 104.6 47.1 141.3

145 38.3 15.6 46.8

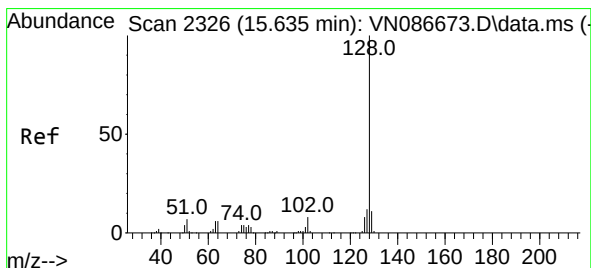
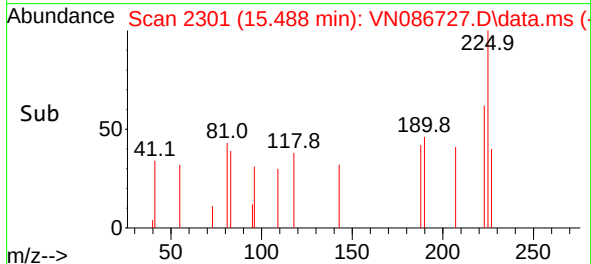
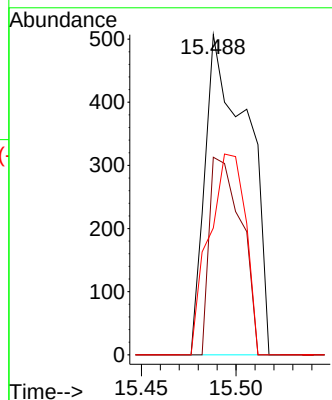
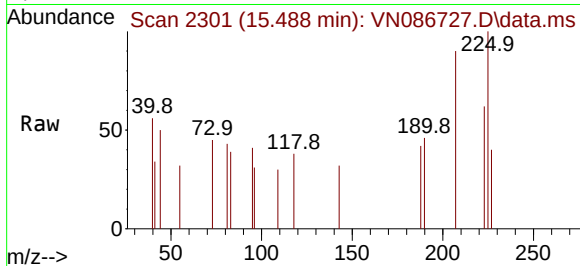




#94
Hexachlorobutadiene
Concen: 1.097 ug/l
RT: 15.488 min Scan# 2301
Delta R.T. -0.012 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

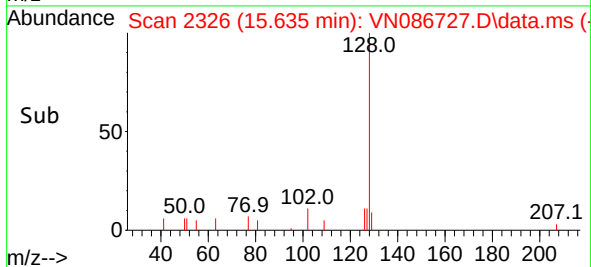
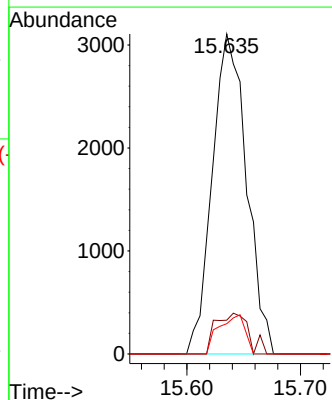
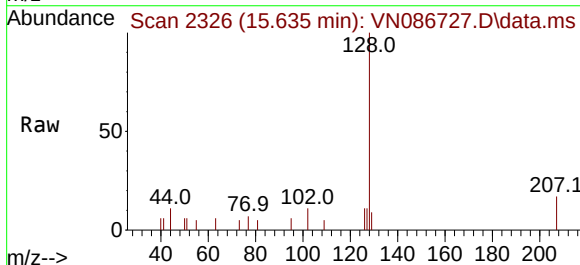
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0075

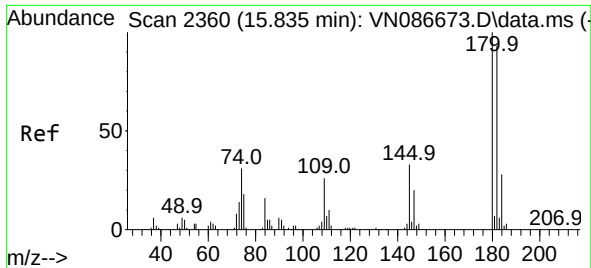
Tgt Ion:225 Resp: 787
Ion Ratio Lower Upper
225 100
223 46.5 32.9 98.6
227 54.0 32.4 97.2



#95
Naphthalene
Concen: 1.084 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086727.D
Acq: 21 May 2025 13:29

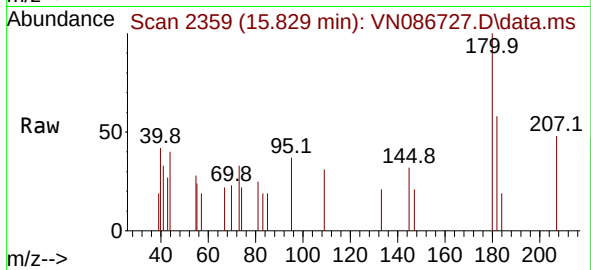
Tgt Ion:128 Resp: 6506
Ion Ratio Lower Upper
128 100
127 12.2 10.1 15.1
129 9.3 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.864 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086727.D
 Acq: 21 May 2025 13:29

Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0075



Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.0	47.0	141.2
145	39.6	16.7	50.1

