

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086704.D
 Acq On : 19 May 2025 21:06
 Operator : JC\MD
 Sample : Q2068-03 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0074

Quant Time: May 20 03:25:42 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)

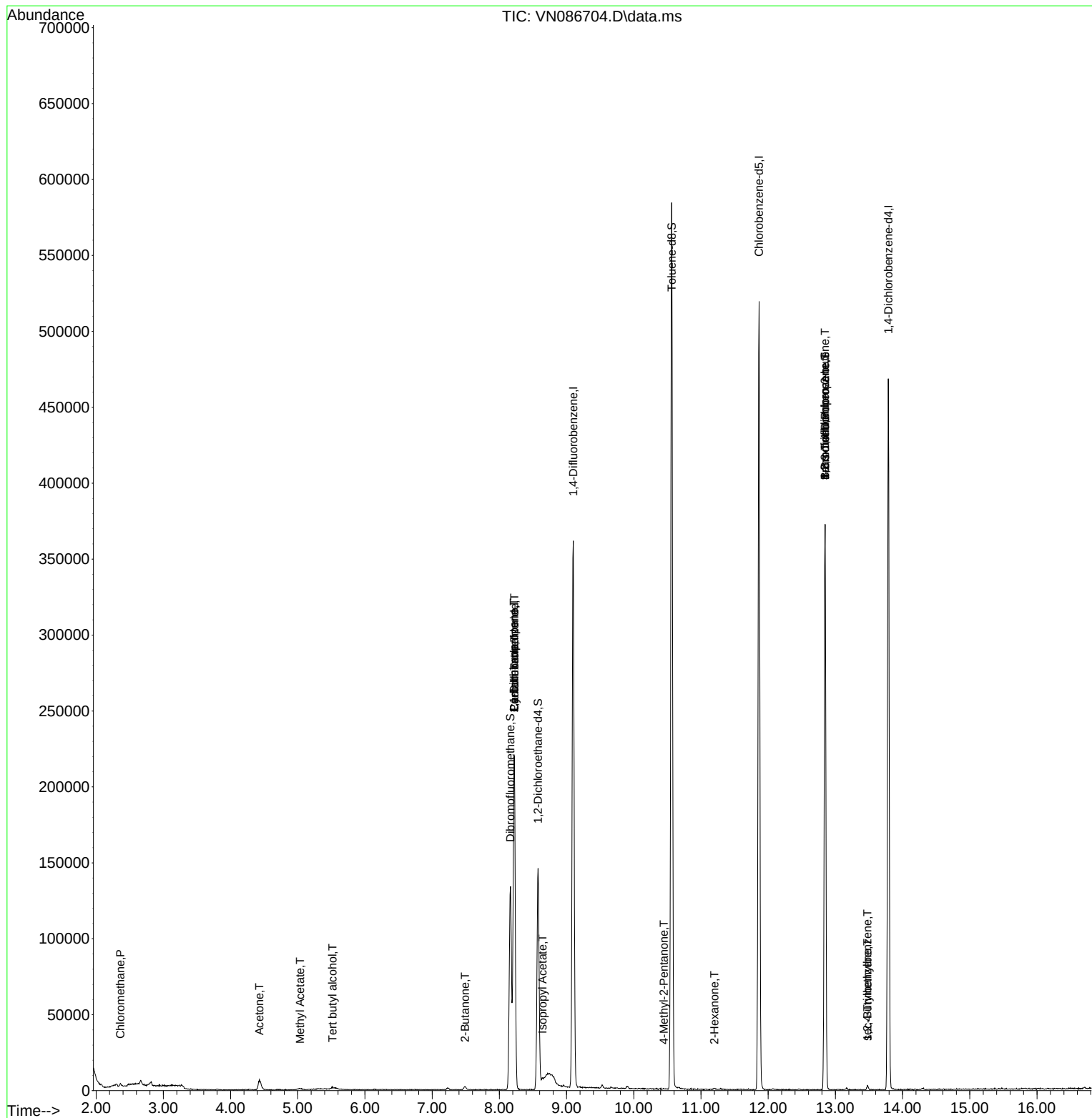
Internal Standards						
1) Pentafluorobenzene	8.224	168	163016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	321353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128383	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118493	52.603	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 105.200%		
35) Dibromofluoromethane	8.165	113	100671	52.603	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 105.200%		
50) Toluene-d8	10.565	98	414055	52.208	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 104.420%		
62) 4-Bromofluorobenzene	12.847	95	140877	50.307	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 100.620%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1260	0.473	ug/l	95
11) Tert butyl alcohol	5.518	59	2352	5.733	ug/l #	73
16) Acetone	4.430	43	13187	15.650	ug/l #	82
18) Methyl Acetate	5.036	43	2216	0.940	ug/l #	56
25) 2-Butanone	7.488	43	4149	3.186	ug/l	97
31) Cyclohexane	8.224	56	3582	1.060	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13184	4.670	ug/l #	49
38) Carbon Tetrachloride	8.224	117	16721	6.012	ug/l #	16
43) Isopropyl Acetate	8.641	43	5233	0.915	ug/l #	54
51) 4-Methyl-2-Pentanone	10.447	43	1315	0.456	ug/l #	33
59) 2-Hexanone	11.200	43	1441	0.685	ug/l #	26
71) Bromoform	12.847	173	652	0.424	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	70486	24.276	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70486	61.265	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.476	105	2507	0.317	ug/l	89
85) sec-Butylbenzene	13.476	105	2507	0.270	ug/l #	56

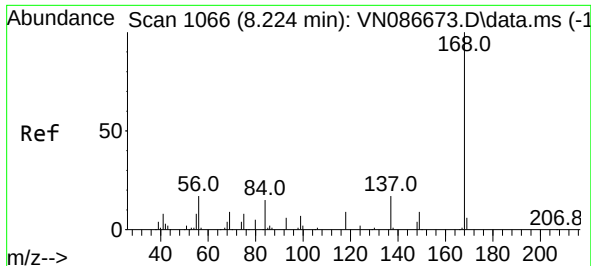
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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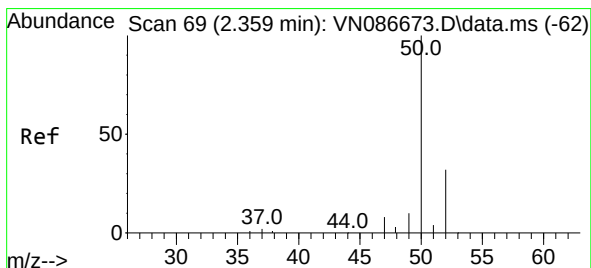
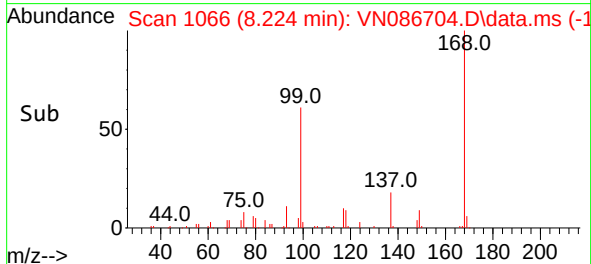
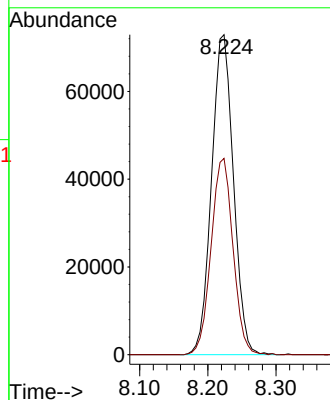
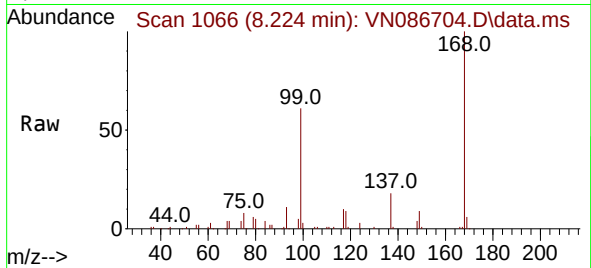




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

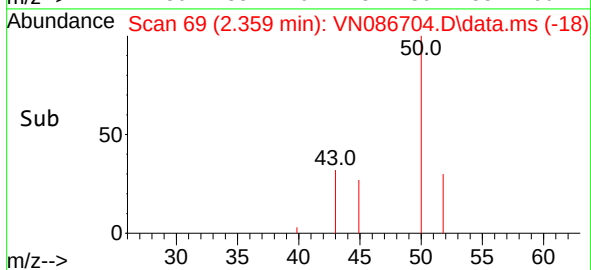
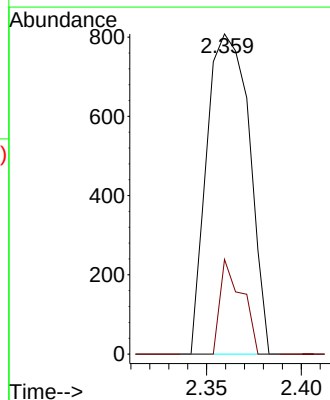
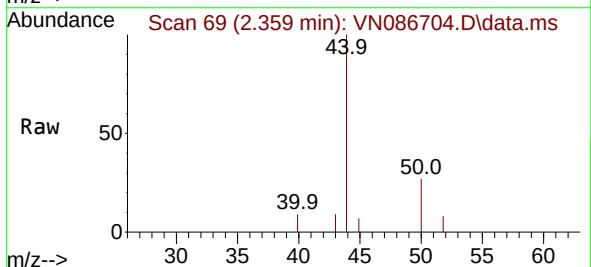
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

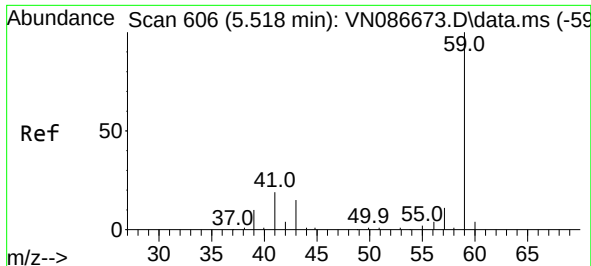
Tgt Ion:168 Resp: 163016
Ion Ratio Lower Upper
168 100
99 61.3 47.0 70.4



#3
Chloromethane
Concen: 0.473 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 50 Resp: 1260
Ion Ratio Lower Upper
50 100
52 29.6 25.9 38.9

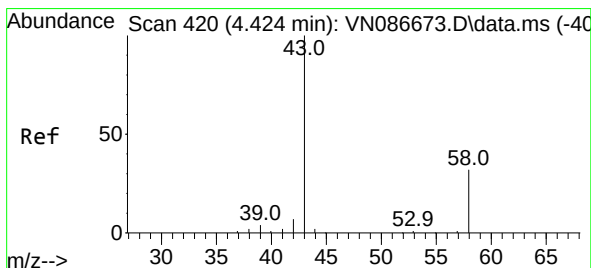
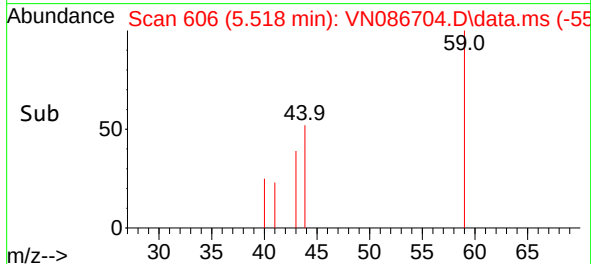
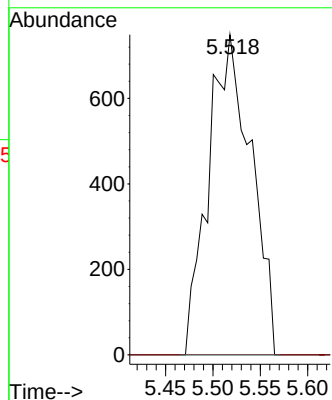
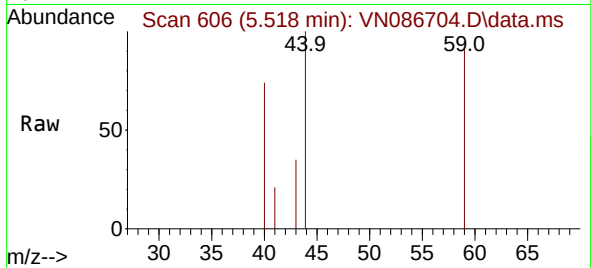




#11
Tert butyl alcohol
Concen: 5.733 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

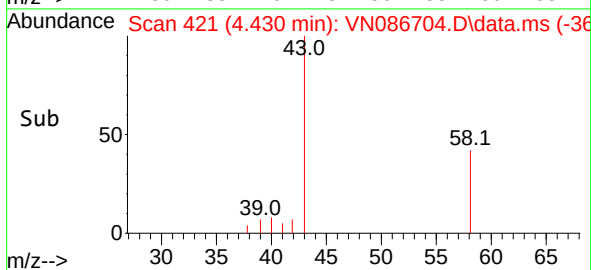
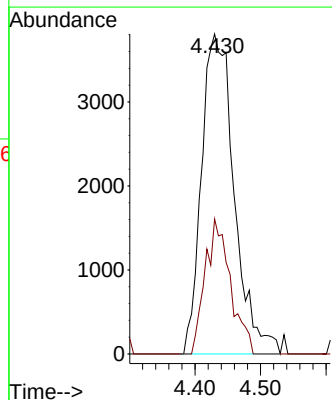
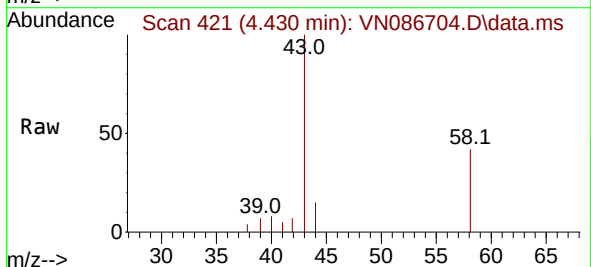
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

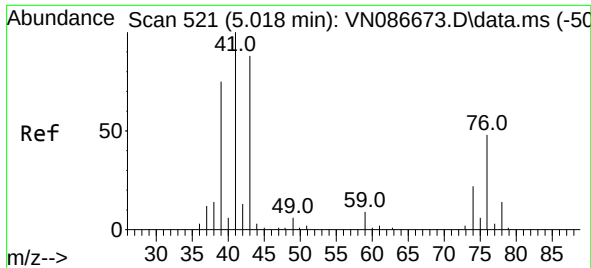
Tgt Ion: 59 Resp: 2352
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 15.650 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 43 Resp: 13187
Ion Ratio Lower Upper
43 100
58 42.2 25.8 38.6#

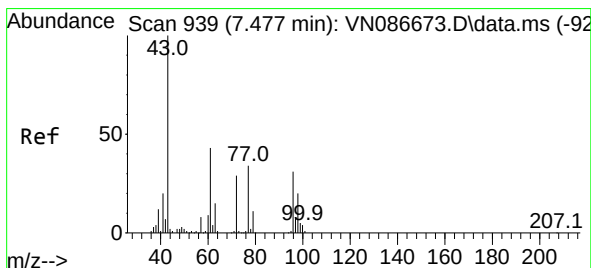
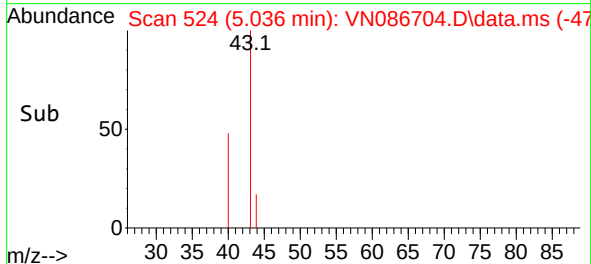
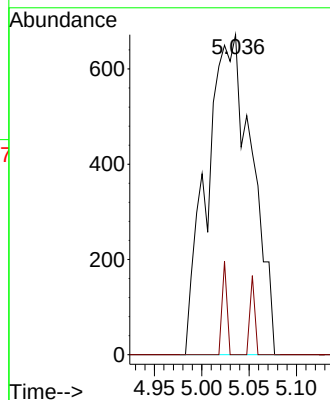
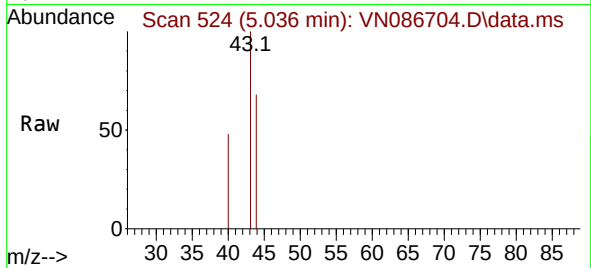




#18
Methyl Acetate
Concen: 0.940 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

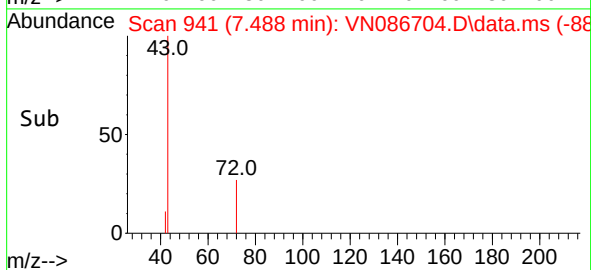
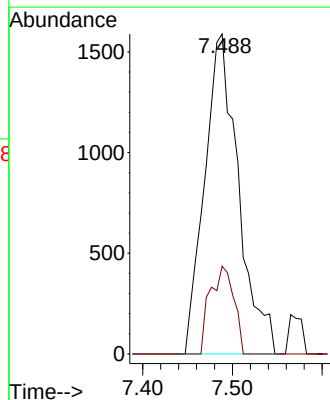
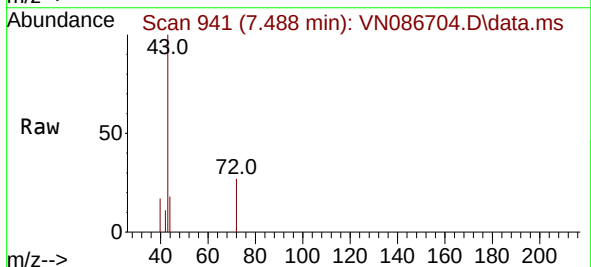
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

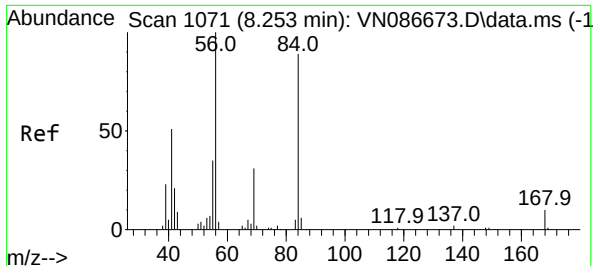
Tgt Ion: 43 Resp: 2216
Ion Ratio Lower Upper
43 100
74 3.1 20.5 30.7#



#25
2-Butanone
Concen: 3.186 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

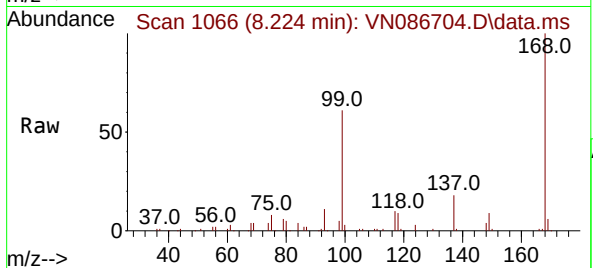
Tgt Ion: 43 Resp: 4149
Ion Ratio Lower Upper
43 100
72 27.4 23.1 34.7



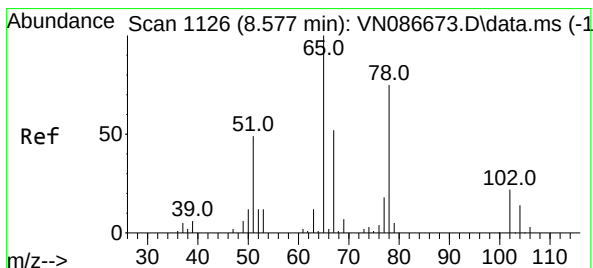
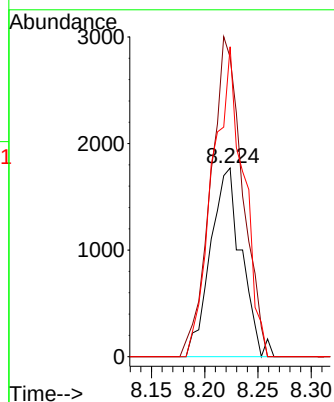
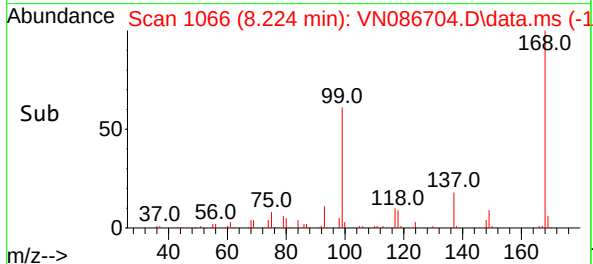


#31
Cyclohexane
Concen: 1.060 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

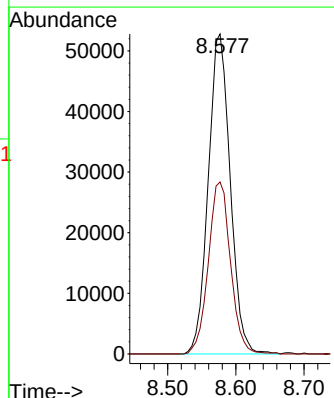
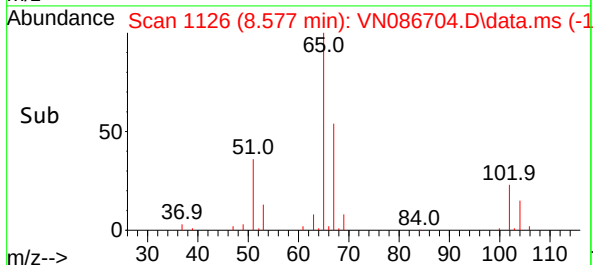
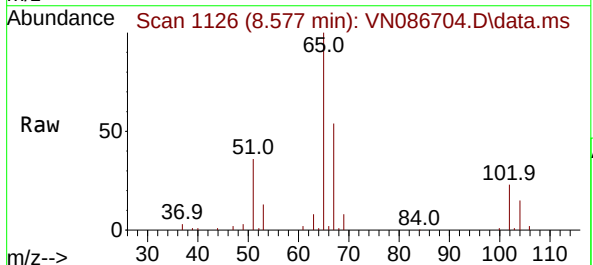


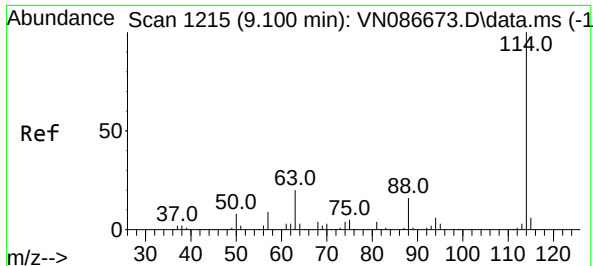
Tgt Ion: 56 Resp: 3582
Ion Ratio Lower Upper
56 100
69 158.6 25.0 37.6#
84 164.2 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 52.603 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 65 Resp: 118493
Ion Ratio Lower Upper
65 100
67 54.3 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: VN086704.D

Acq: 19 May 2025 21:06

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0074

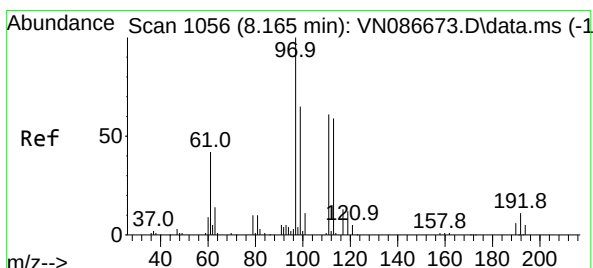
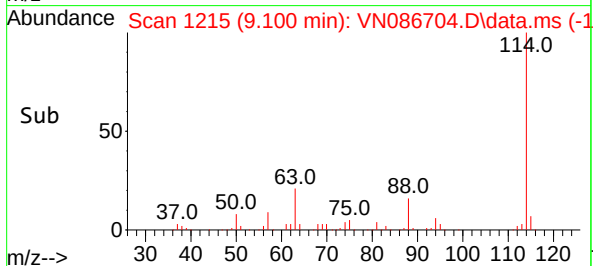
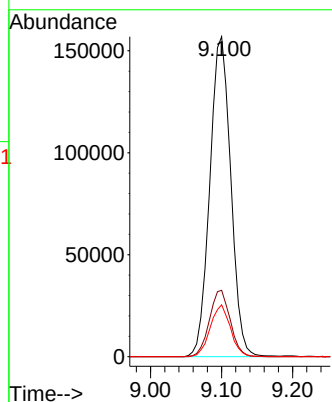
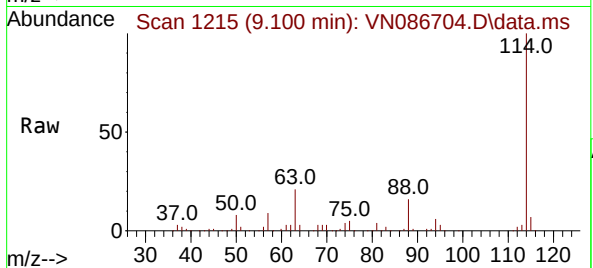
Tgt Ion:114 Resp: 321353

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.2

88 16.2 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.603 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086704.D

Acq: 19 May 2025 21:06

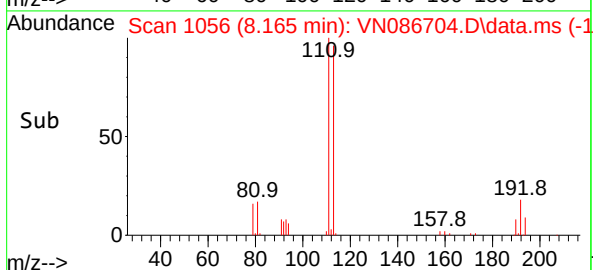
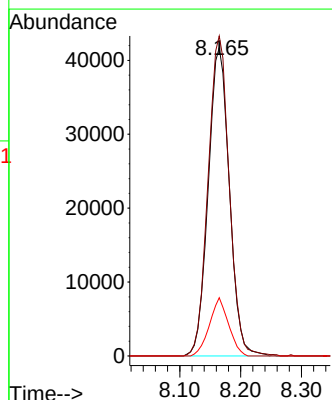
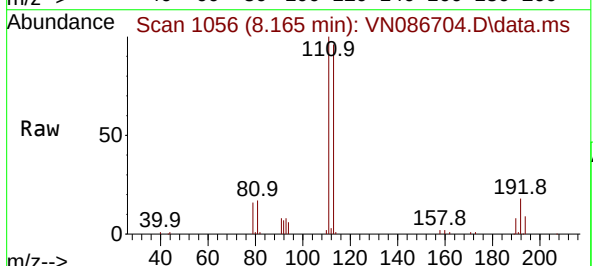
Tgt Ion:113 Resp: 100671

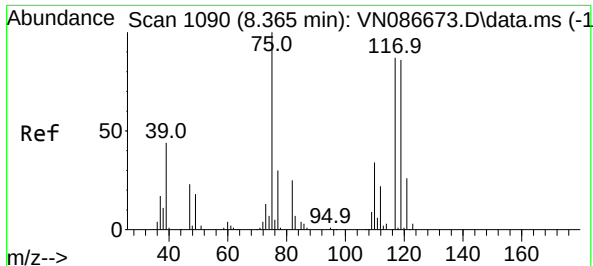
Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.2

192 17.1 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.670 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086704.D

Acq: 19 May 2025 21:06

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0074

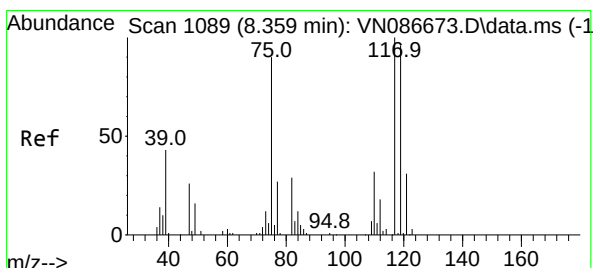
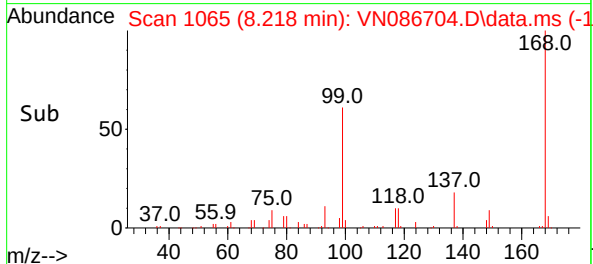
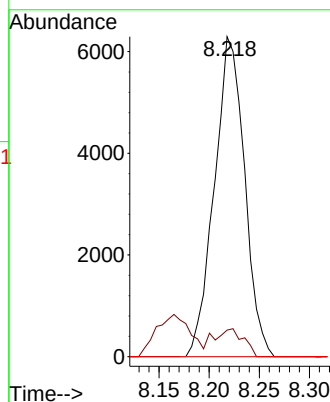
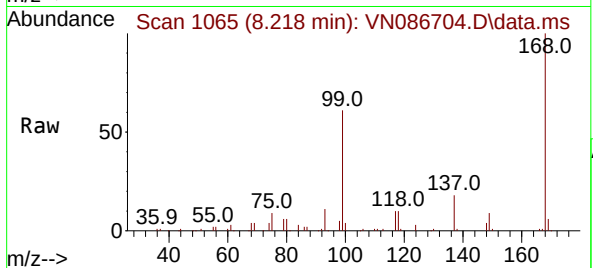
Tgt Ion: 75 Resp: 13184

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.5#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.012 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086704.D

Acq: 19 May 2025 21:06

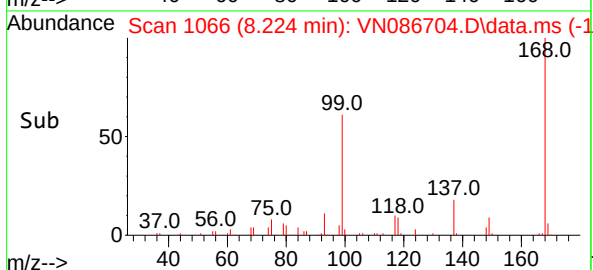
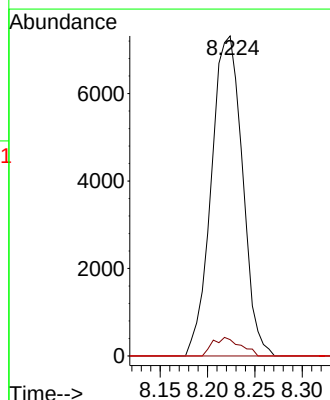
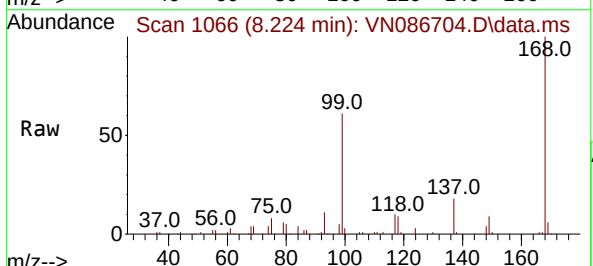
Tgt Ion: 117 Resp: 16721

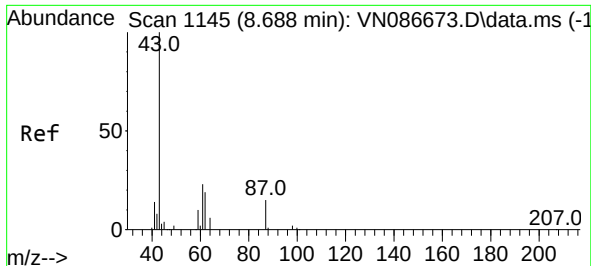
Ion Ratio Lower Upper

117 100

119 5.1 77.0 115.6#

121 0.0 25.0 37.6#

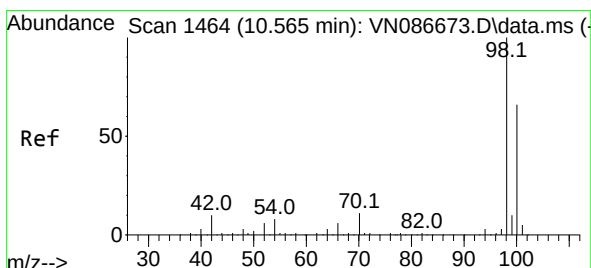
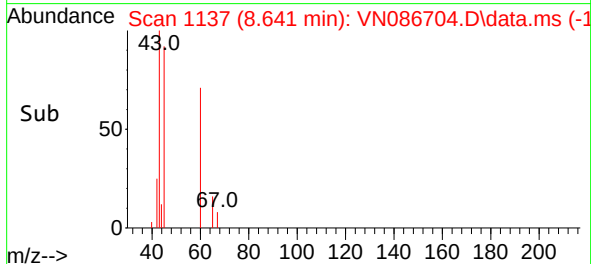
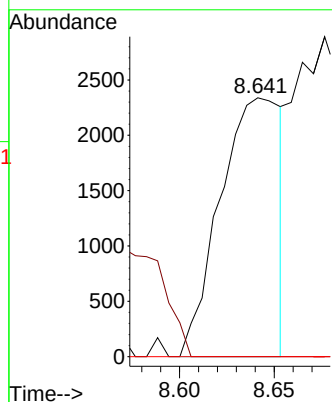
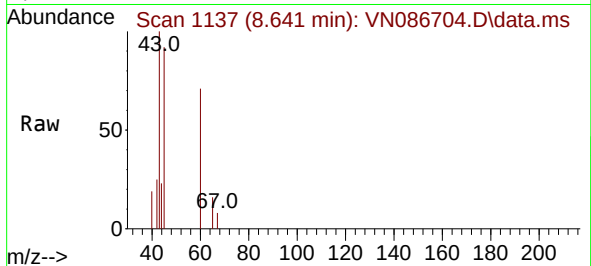




#43
Isopropyl Acetate
Concen: 0.915 ug/l
RT: 8.641 min Scan# 1145
Delta R.T. -0.047 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

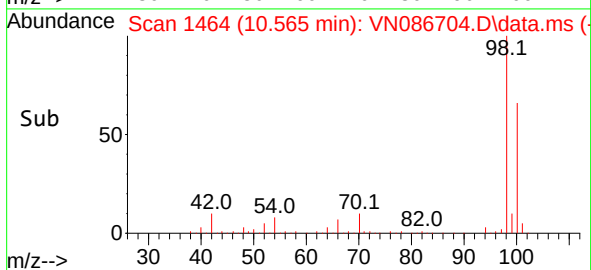
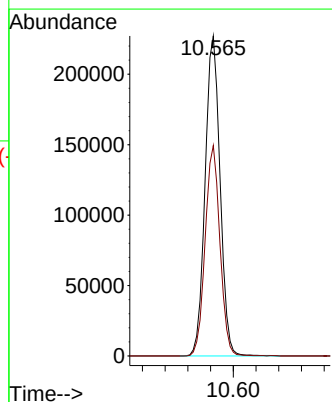
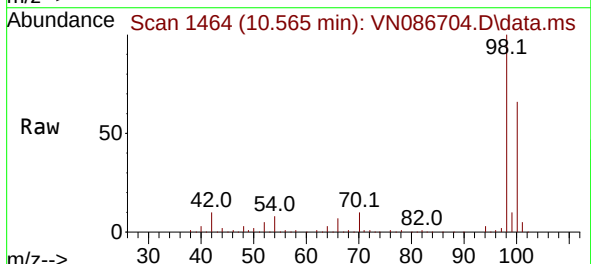
Instrument :
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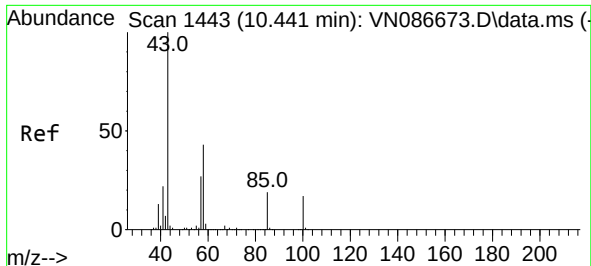
Tgt Ion: 43 Resp: 5233
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.2#
87 0.0 11.1 16.7#



#50
Toluene-d8
Concen: 52.208 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

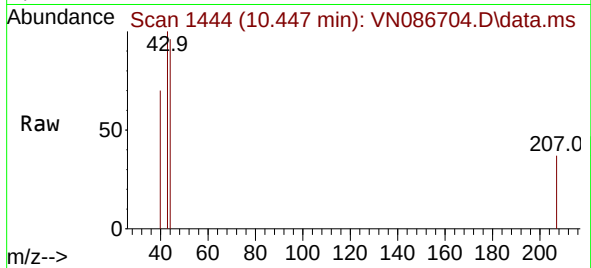
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Ion Ratio Lower Upper
98 100
100 64.9 52.9 79.3



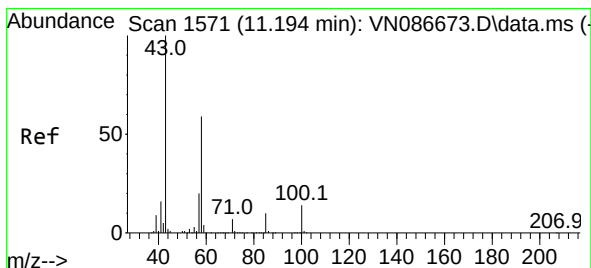
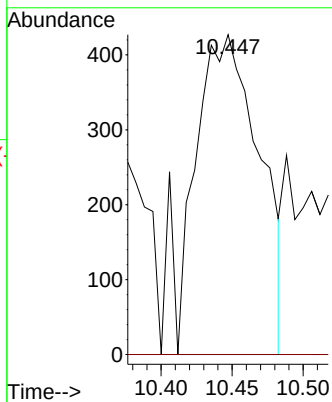
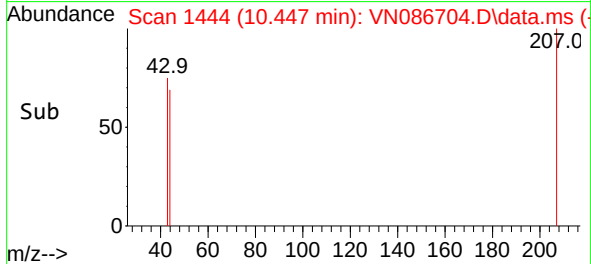


#51
4-Methyl-2-Pentanone
Concen: 0.456 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Instrument :
MSVOA_N
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LAW-25-0074

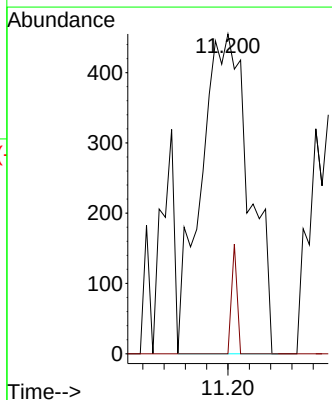
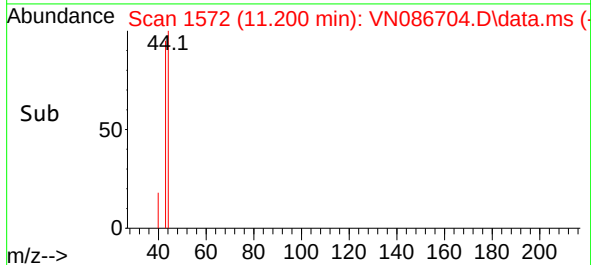
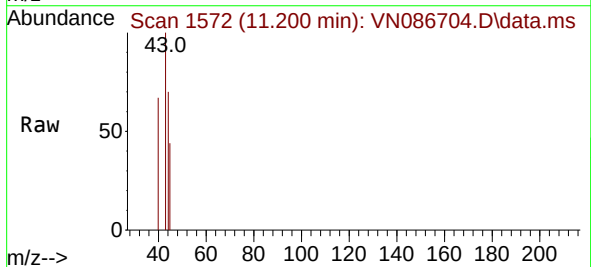


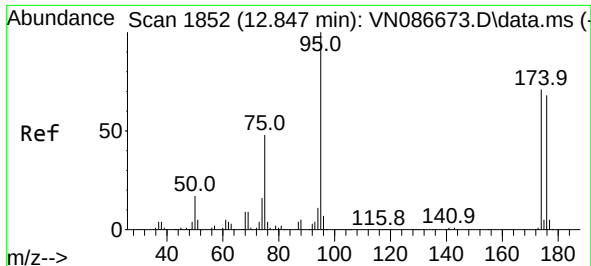
Tgt Ion: 43 Resp: 1315
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#59
2-Hexanone
Concen: 0.685 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 43 Resp: 1441
Ion Ratio Lower Upper
43 100
58 3.8 29.8 89.5#

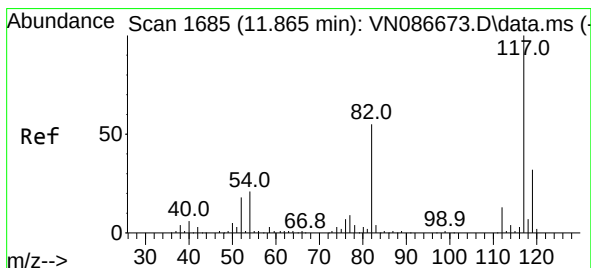
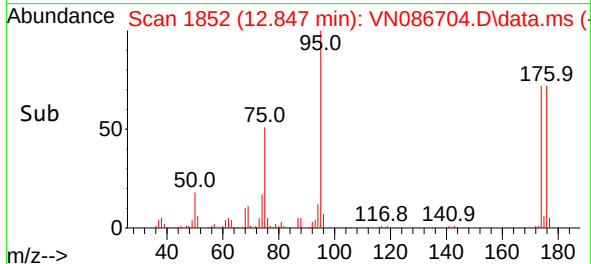
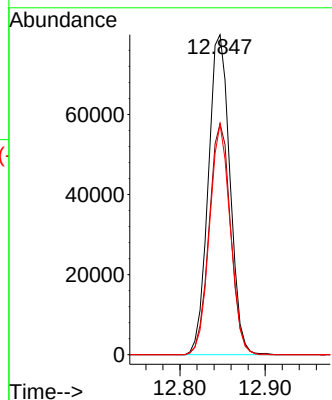
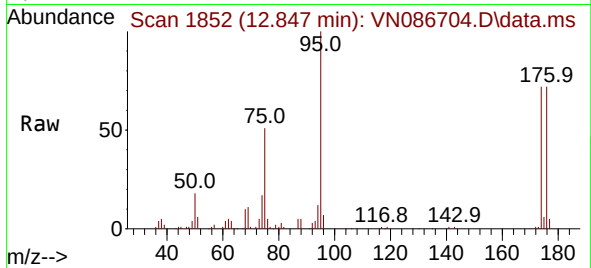




#62
4-Bromofluorobenzene
Concen: 50.307 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

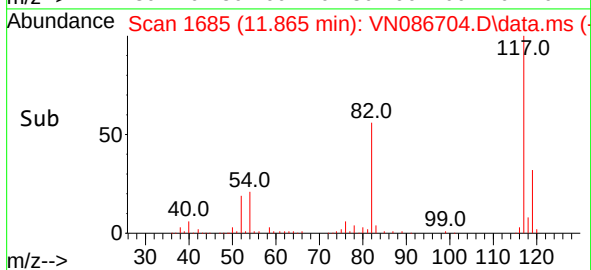
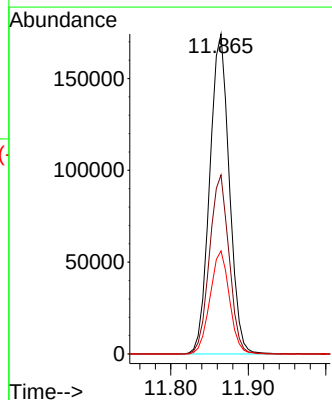
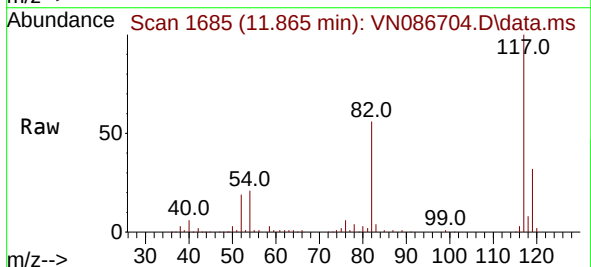
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

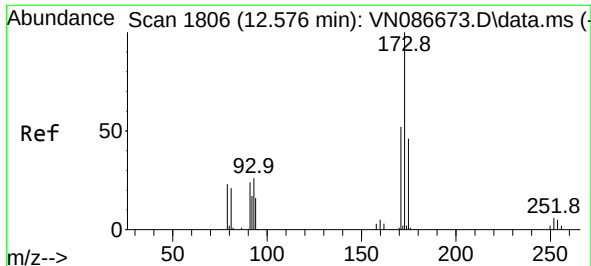
Tgt Ion: 95 Resp: 140877
Ion Ratio Lower Upper
95 100
174 71.7 0.0 145.4
176 69.0 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 117 Resp: 305791
Ion Ratio Lower Upper
117 100
82 56.0 44.2 66.2
119 32.2 25.4 38.2

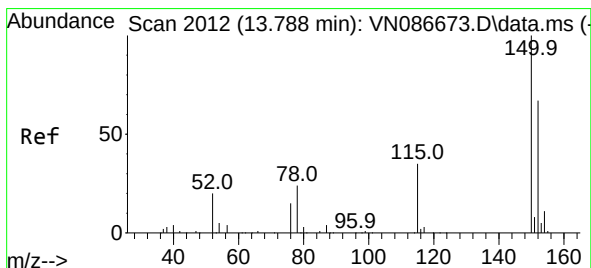
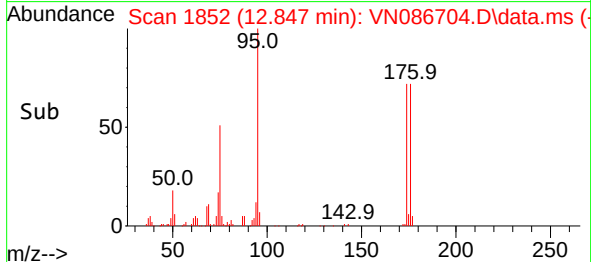
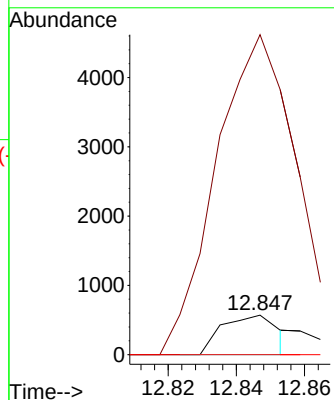
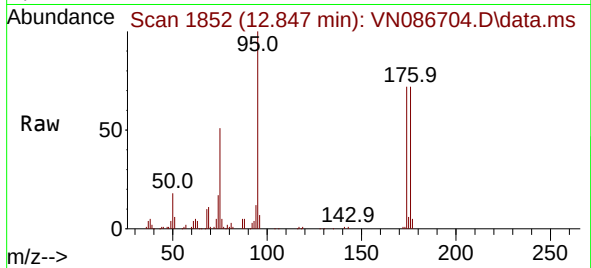




#71
Bromoform
Concen: 0.424 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

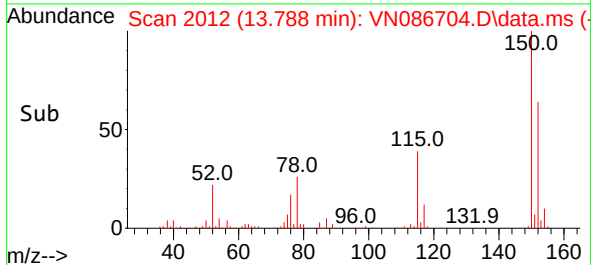
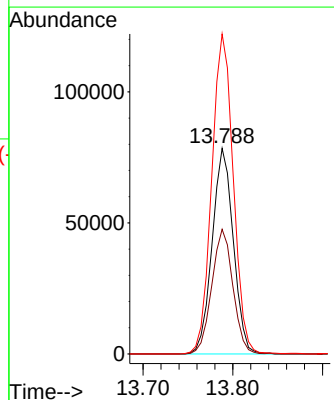
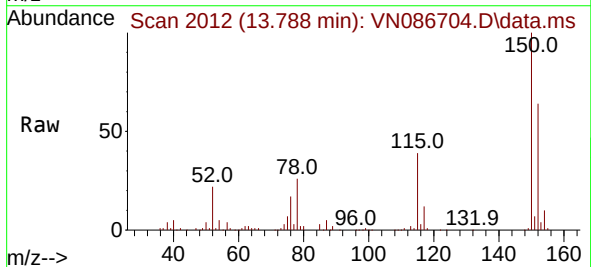
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

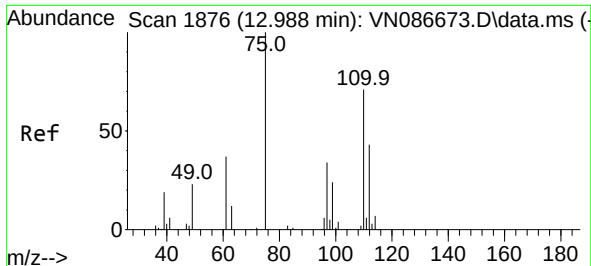
Tgt Ion:173 Resp: 652
Ion Ratio Lower Upper
173 100
175 954.0 23.4 70.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion:152 Resp: 128383
Ion Ratio Lower Upper
152 100
115 60.6 30.0 90.1
150 158.3 0.0 347.8

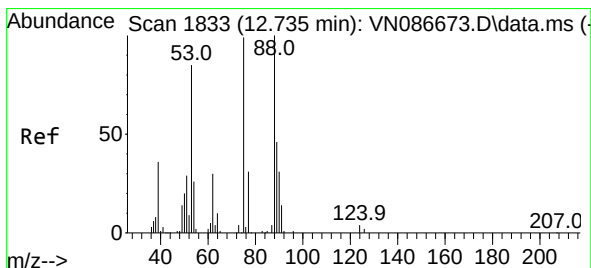
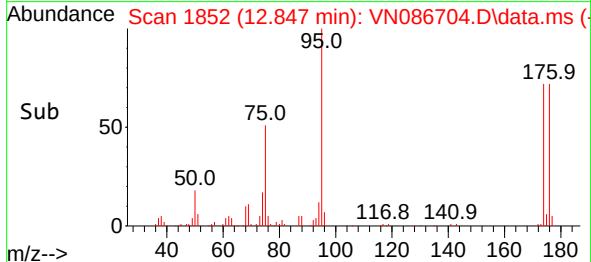
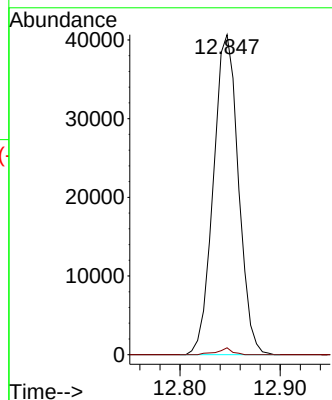
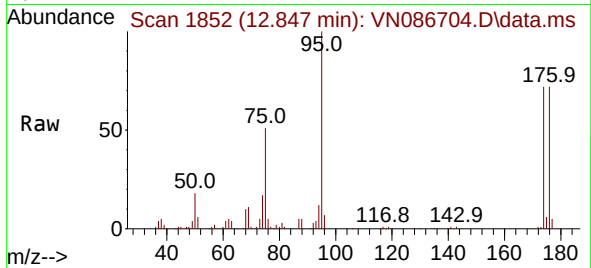




#76
1,2,3-Trichloropropane
Concen: 24.276 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

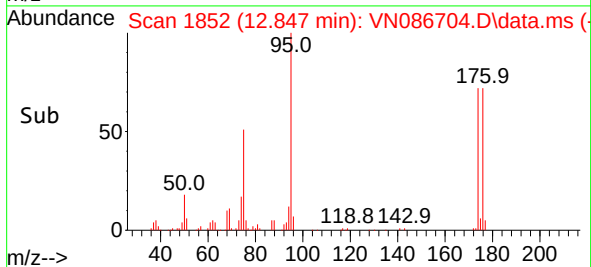
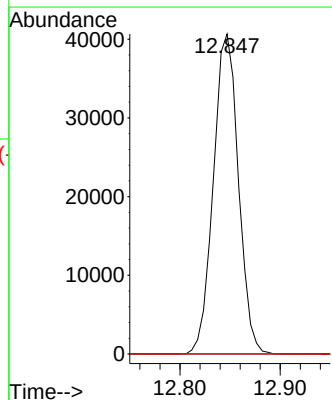
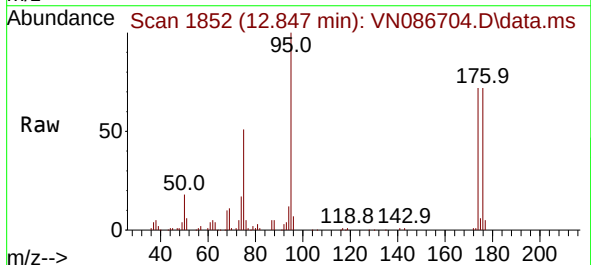
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

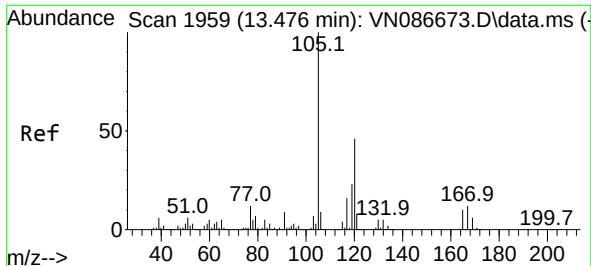
Tgt Ion: 75 Resp: 70486
Ion Ratio Lower Upper
75 100
77 1.3 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.265 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion: 75 Resp: 70486
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

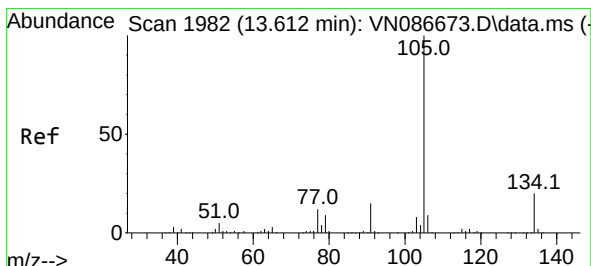
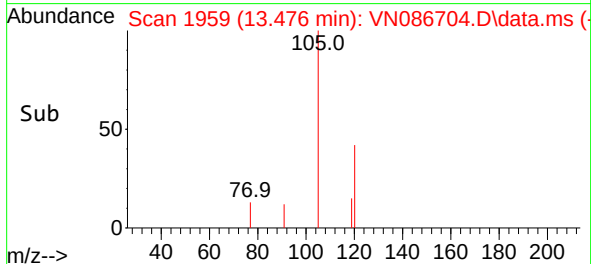
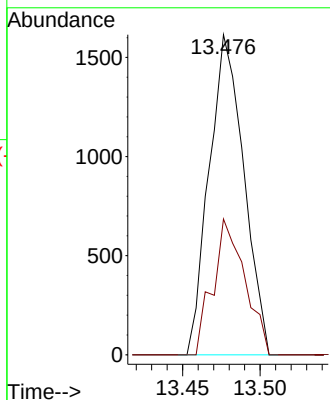
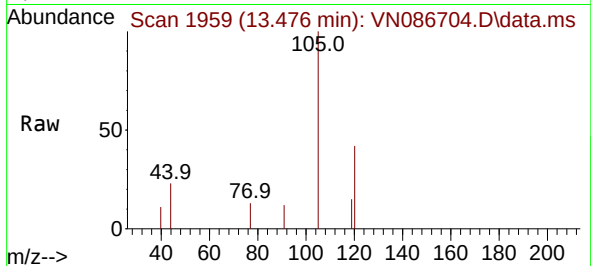




#84
1,2,4-Trimethylbenzene
Concen: 0.317 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0074

Tgt Ion:105 Resp: 2507
Ion Ratio Lower Upper
105 100
120 39.1 23.2 69.6



#85
sec-Butylbenzene
Concen: 0.270 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.135 min
Lab File: VN086704.D
Acq: 19 May 2025 21:06

Tgt Ion:105 Resp: 2507
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#

