

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087513.D
 Acq On : 12 Aug 2025 14:46
 Operator : JC\MD
 Sample : Q2816-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1057-MW-03A(17)

Quant Time: Aug 13 03:05:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

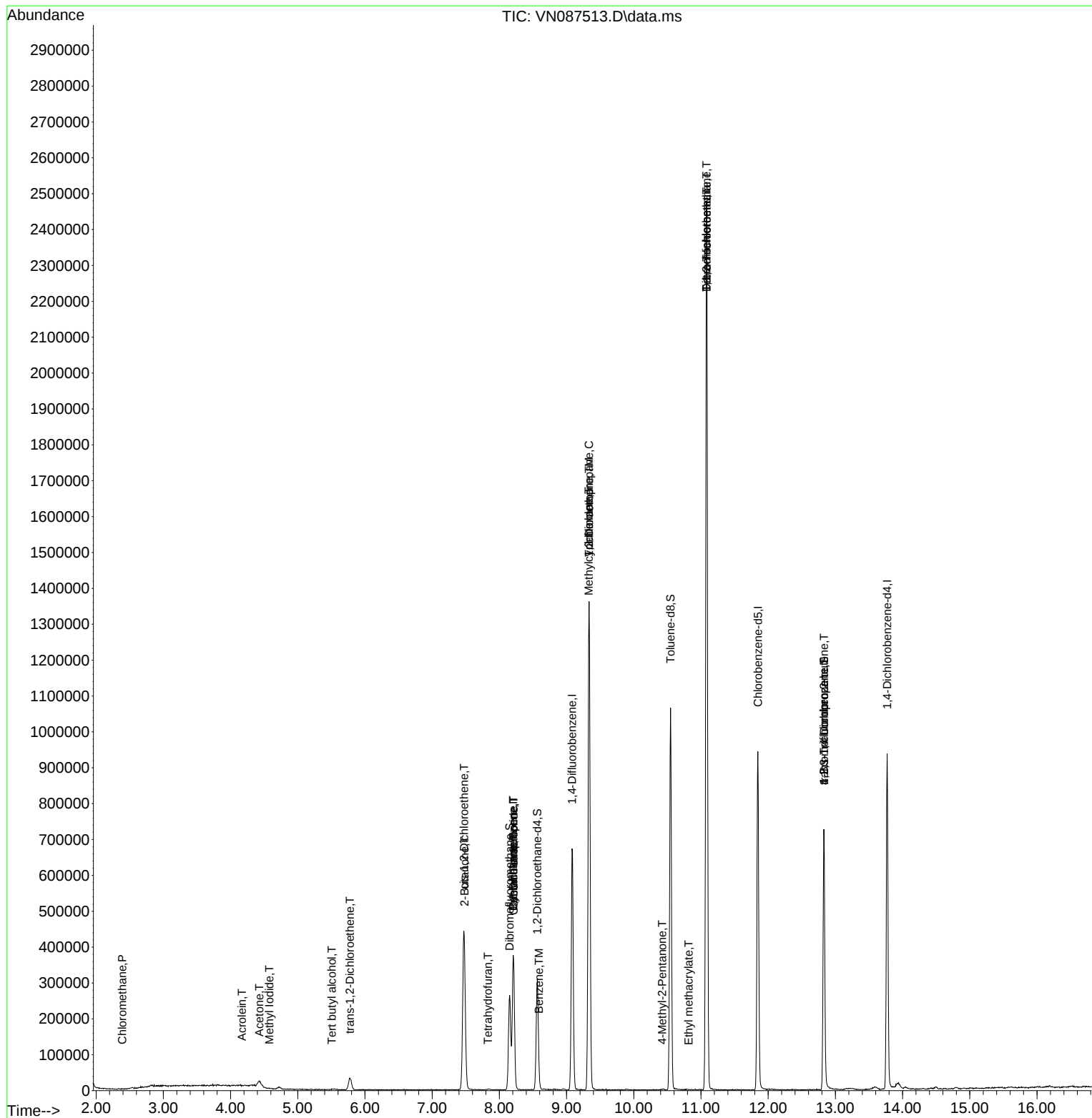
Internal Standards						
1) Pentafluorobenzene	8.206	168	248546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	554436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	512804	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	233578	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	255488	60.581	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 121.160%	
35) Dibromofluoromethane	8.153	113	187535	49.035	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.080%	
50) Toluene-d8	10.547	98	700794	51.369	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.740%	
62) 4-Bromofluorobenzene	12.829	95	261737	51.930	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.860%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1253	0.377	ug/l #	42
10) Methyl Iodide	4.577	142	123	5.674	ug/l #	40
11) Tert butyl alcohol	5.506	59	885	1.105	ug/l #	9
13) Acrolein	4.171	56	180	0.280	ug/l #	1
16) Acetone	4.430	43	26946	13.627	ug/l #	87
20) Methylene Chloride	5.265	84	236	Below Cal	#	57
21) trans-1,2-Dichloroethene	5.777	96	18909	5.910	ug/l	96
25) 2-Butanone	7.483	43	6879	2.252	ug/l #	45
27) cis-1,2-Dichloroethene	7.477	96	259520	70.448	ug/l	93
29) Tetrahydrofuran	7.830	42	2075	1.045	ug/l #	81
31) Cyclohexane	8.206	56	10062	1.941	ug/l #	21
36) 1,1-Dichloropropene	8.206	75	25584	5.063	ug/l #	50
38) Carbon Tetrachloride	8.212	117	29371	5.277	ug/l #	14
39) Methylcyclohexane	9.330	83	6432	1.176	ug/l #	1
40) Benzene	8.588	78	3380	0.207	ug/l #	72
44) Trichloroethene	9.335	130	450946	116.863	ug/l	88
45) 1,2-Dichloropropane	9.335	63	1695	0.408	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	2327	0.325	ug/l #	80
55) 1,1,2-Trichloroethane	11.082	97	6120	1.523	ug/l #	1
56) Ethyl methacrylate	10.818	69	59	0.644	ug/l #	1
60) Dibromochloromethane	11.082	129	539789	117.780	ug/l #	11
64) Tetrachloroethene	11.082	164	515186	156.096	ug/l	95
76) 1,2,3-Trichloropropane	12.829	75	149309	28.506	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	149309	77.997	ug/l #	8

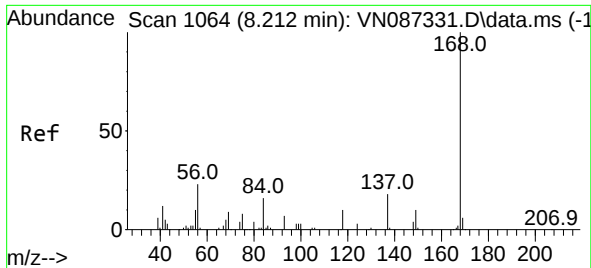
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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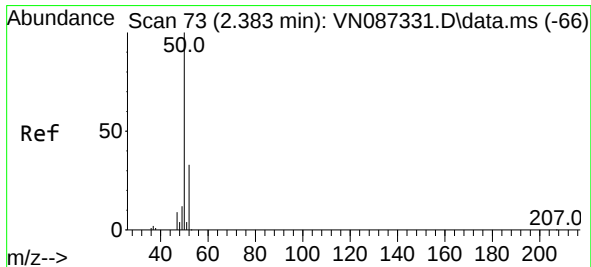
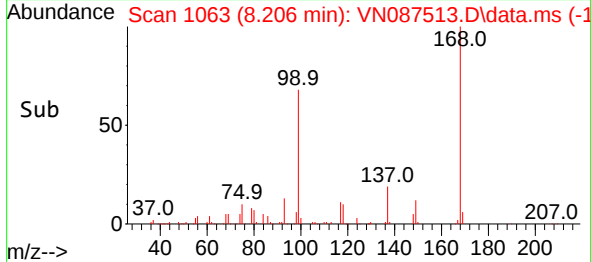
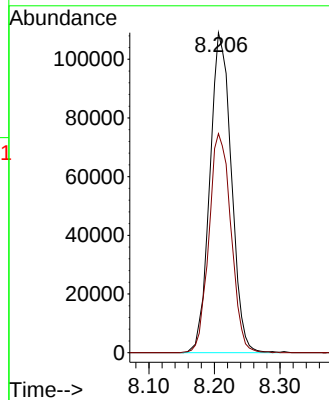
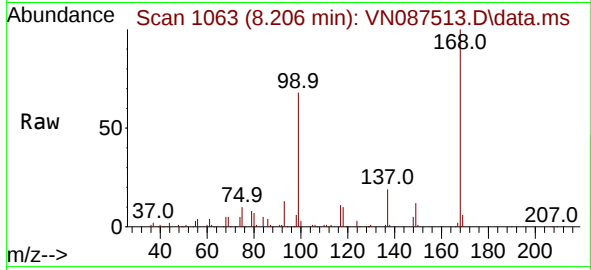




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

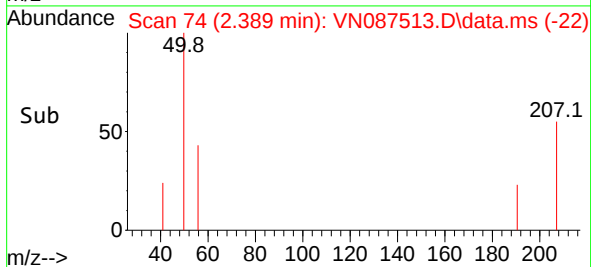
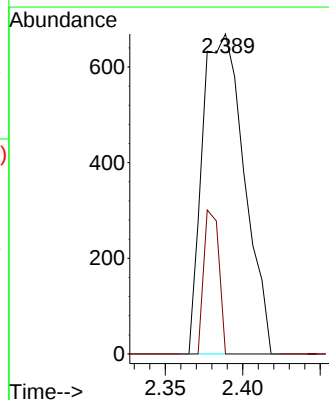
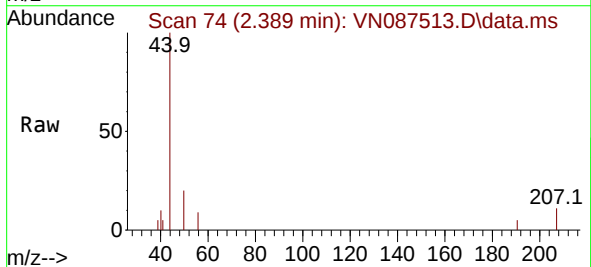
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

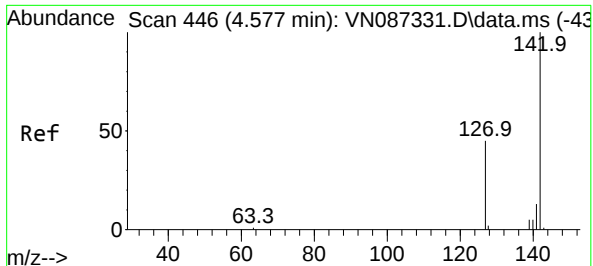
Tgt Ion:168 Resp: 248546
Ion Ratio Lower Upper
168 100
99 68.4 47.9 71.9



#3
Chloromethane
Concen: 0.377 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 50 Resp: 1253
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5

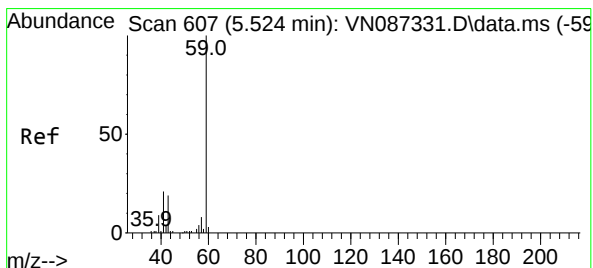
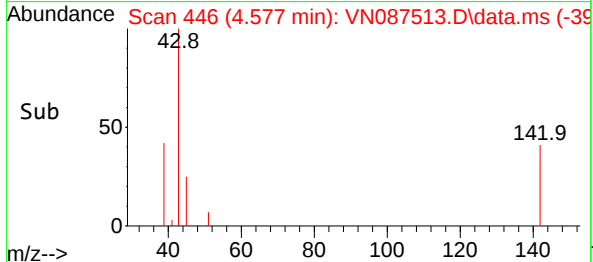
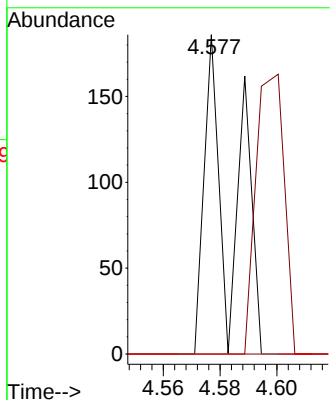
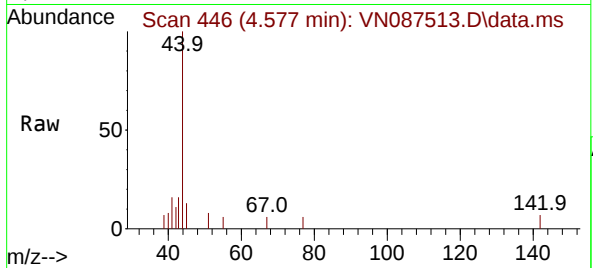




#10
Methyl Iodide
Concen: 5.674 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

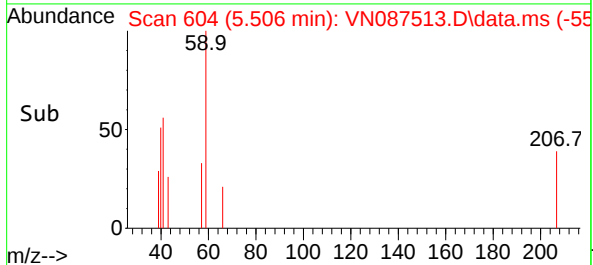
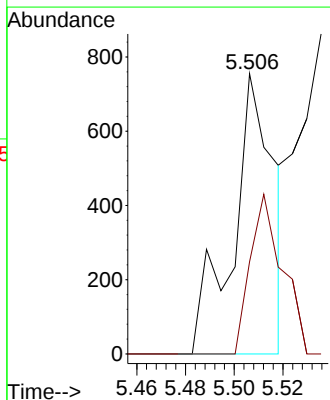
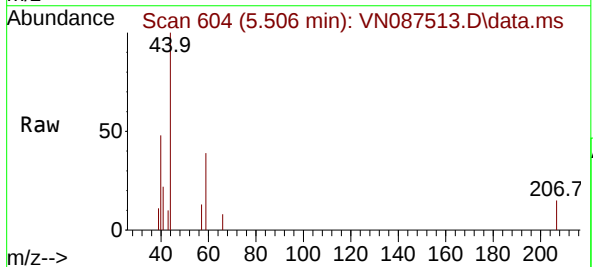
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

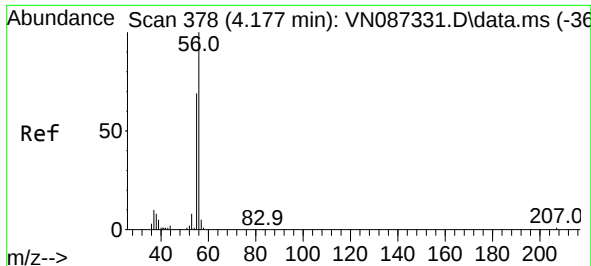
Tgt Ion:142 Resp: 123
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 1.105 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.017 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 59 Resp: 885
Ion Ratio Lower Upper
59 100
57 44.4 8.3 12.5#

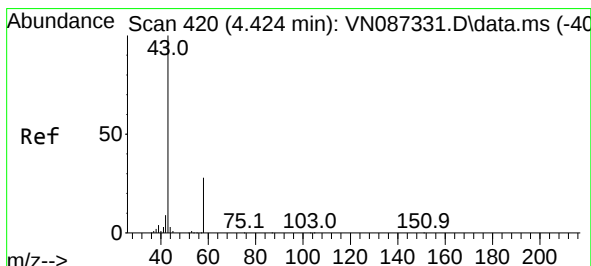
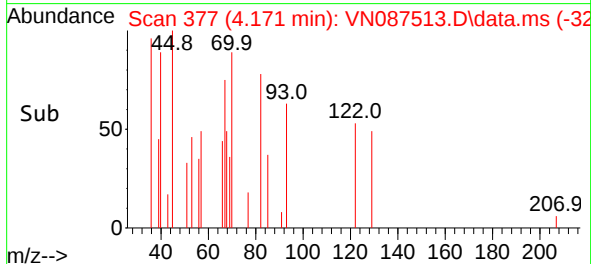
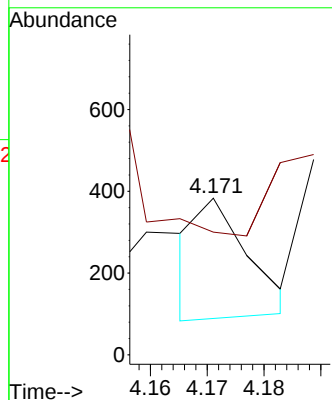
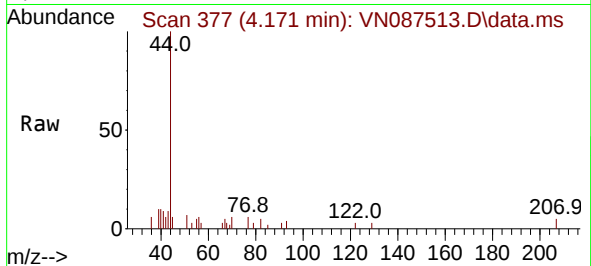




#13
Acrolein
Concen: 0.280 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

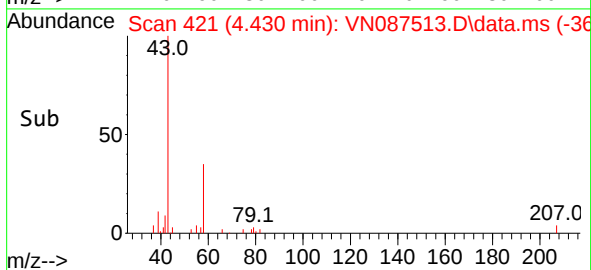
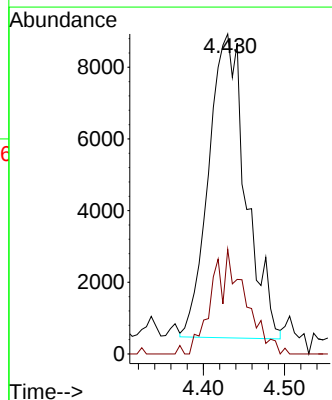
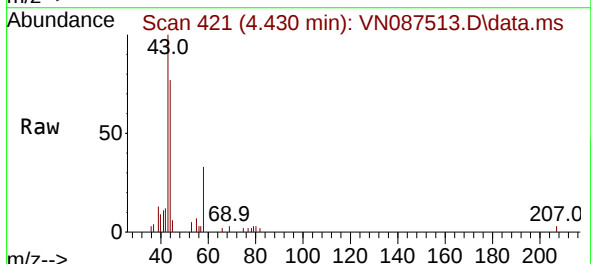
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

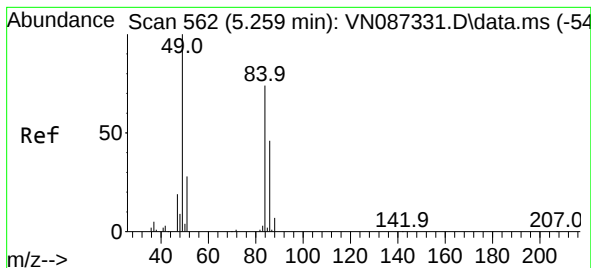
Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 255.0 56.2 84.4#



#16
Acetone
Concen: 13.627 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 43 Resp: 26946
Ion Ratio Lower Upper
43 100
58 34.9 22.3 33.5#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.265 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087513.D

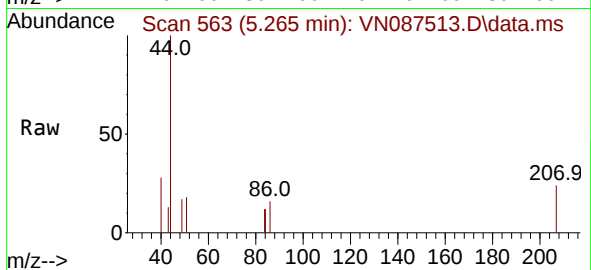
Acq: 12 Aug 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

1057-MW-03A(17)



Tgt Ion: 84 Resp: 236

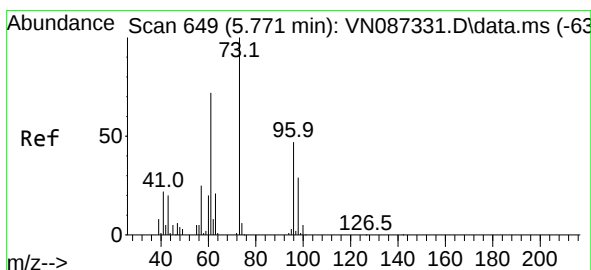
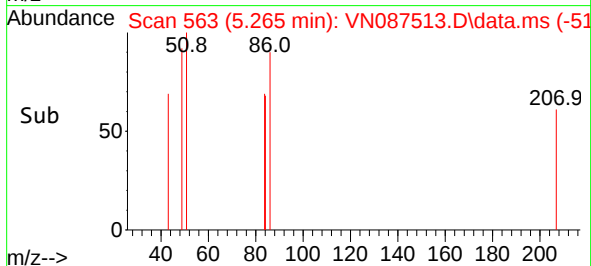
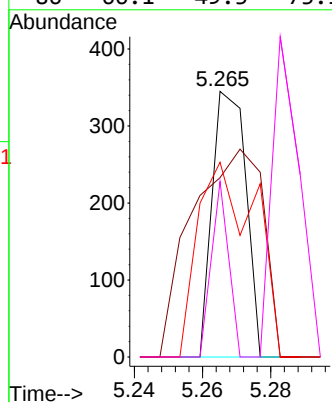
Ion Ratio Lower Upper

84 100

49 67.5 107.5 161.3#

51 73.3 30.2 45.2#

86 66.1 49.3 73.9



#21

trans-1,2-Dichloroethene

Concen: 5.910 ug/l

RT: 5.777 min Scan# 650

Delta R.T. 0.006 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

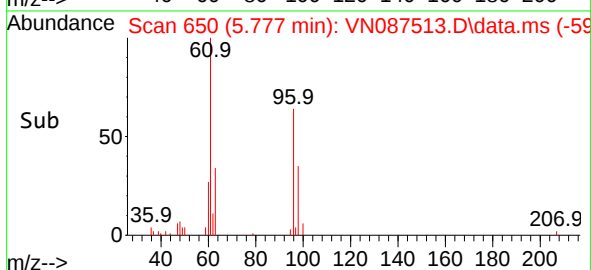
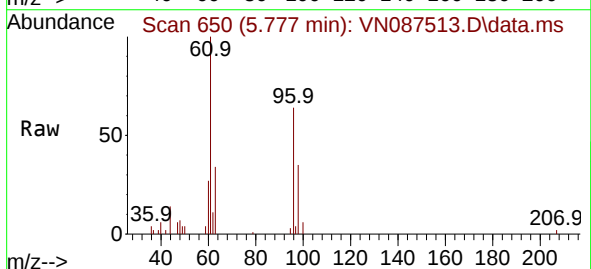
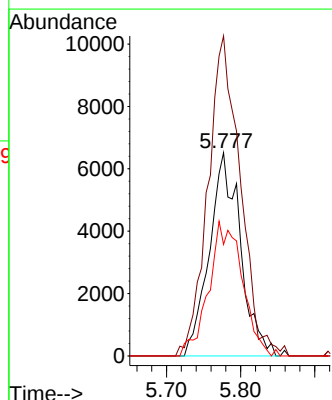
Tgt Ion: 96 Resp: 18909

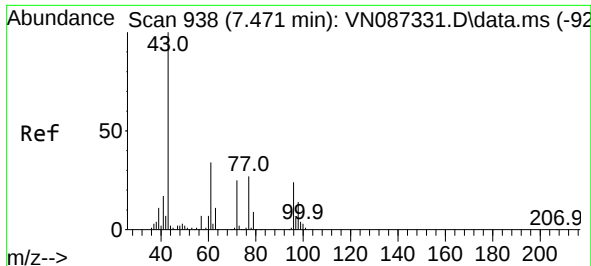
Ion Ratio Lower Upper

96 100

61 155.0 122.0 183.0

98 54.9 50.0 75.0

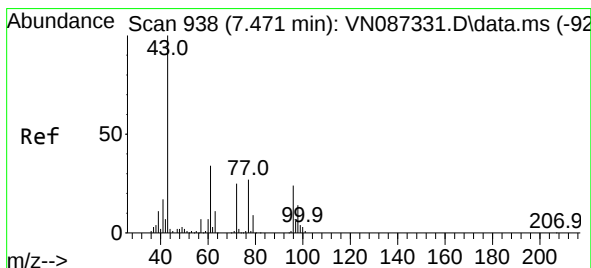
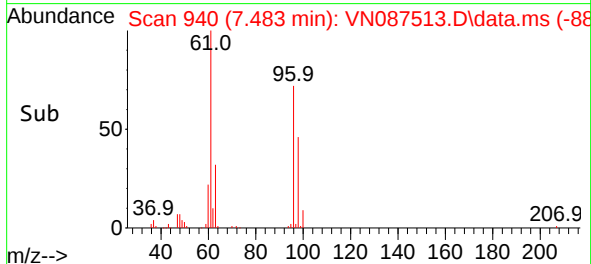
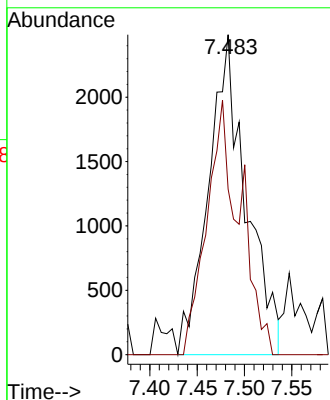
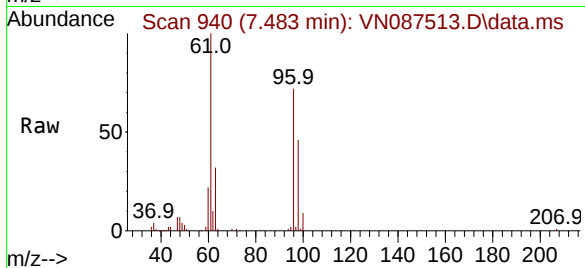




#25
2-Butanone
Concen: 2.252 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

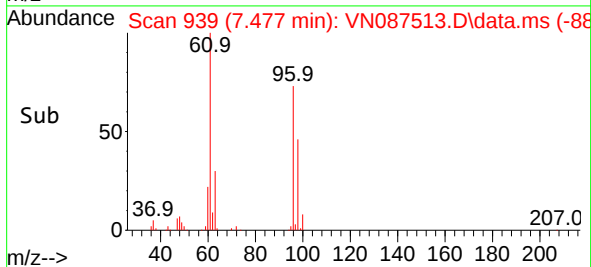
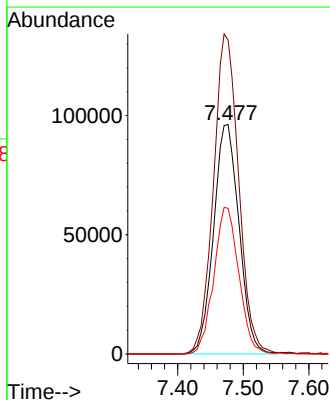
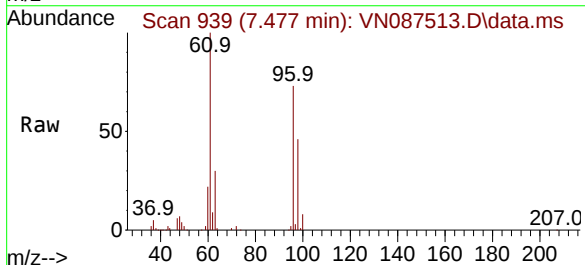
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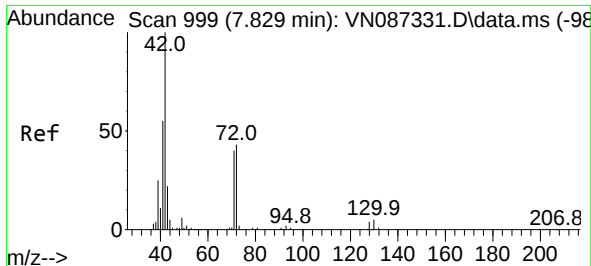
Tgt Ion: 43 Resp: 6879
Ion Ratio Lower Upper
43 100
72 51.7 19.6 29.4#



#27
cis-1,2-Dichloroethene
Concen: 70.448 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 96 Resp: 259520
Ion Ratio Lower Upper
96 100
61 138.0 0.0 297.8
98 62.8 0.0 132.4

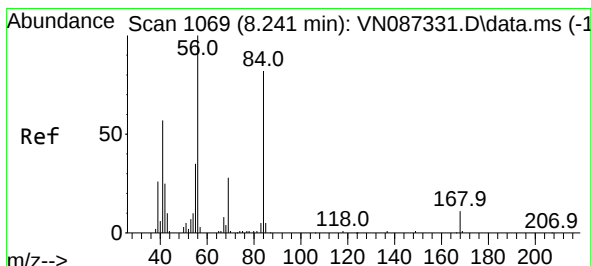
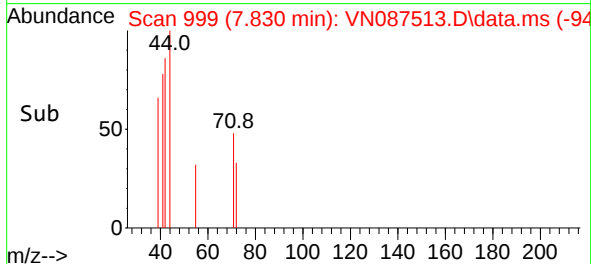
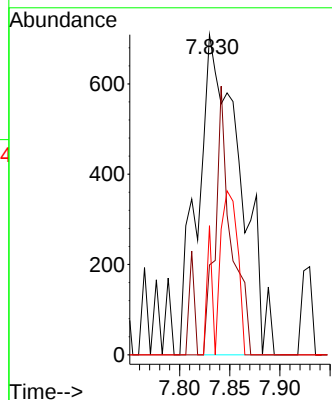
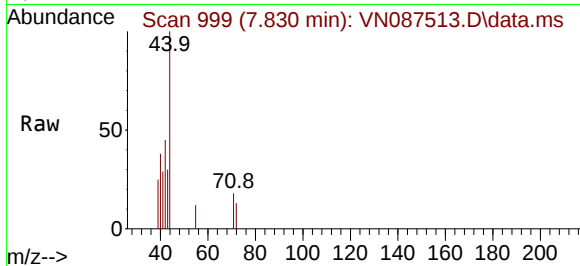




#29
Tetrahydrofuran
Concen: 1.045 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.000 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

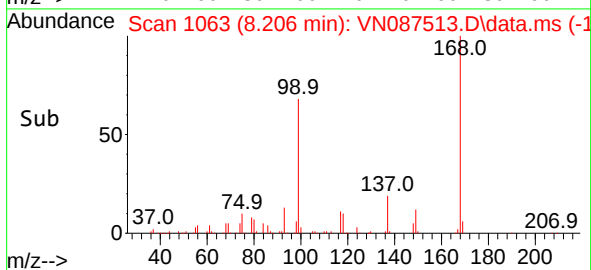
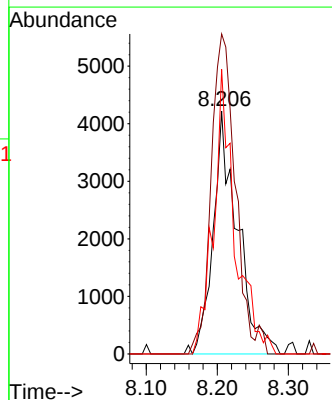
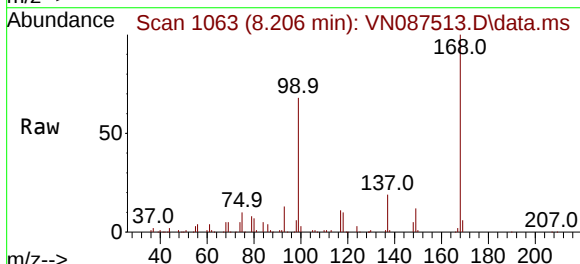
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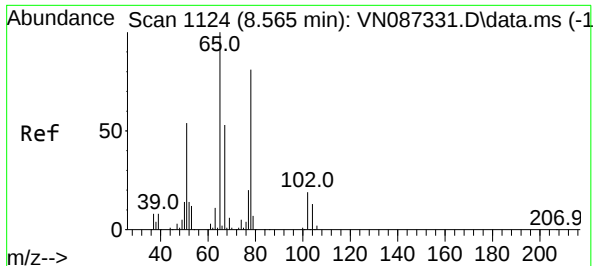
Tgt Ion:	42	Resp:	2075
Ion	Ratio	Lower	Upper
42	100		
72	31.7	33.4	50.0#
71	25.3	31.2	46.8#



#31
Cyclohexane
Concen: 1.941 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion:	56	Resp:	10062
Ion	Ratio	Lower	Upper
56	100		
69	131.8	22.7	34.1#
84	117.2	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 60.581 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

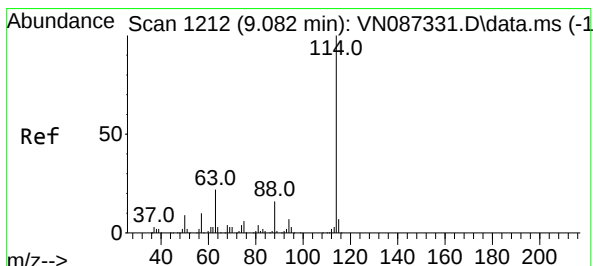
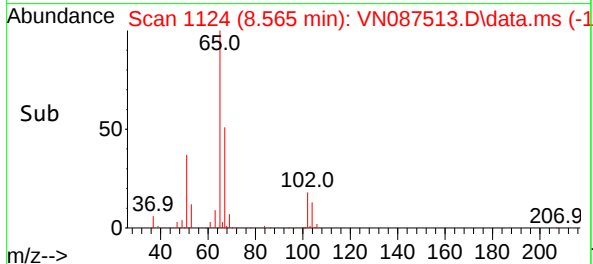
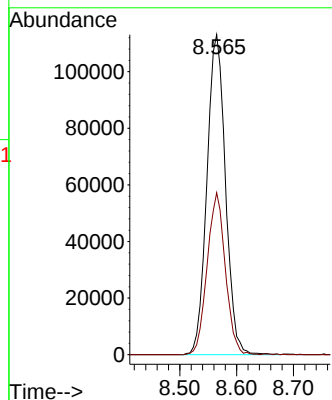
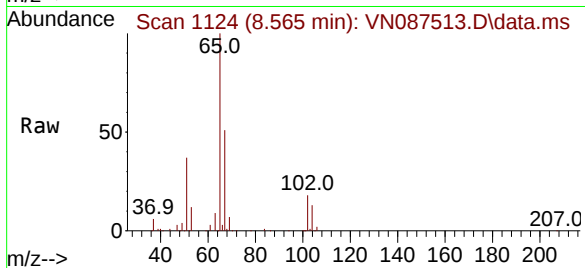
1057-MW-03A(17)

Tgt Ion: 65 Resp: 255488

Ion Ratio Lower Upper

65 100

67 49.6 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.001 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

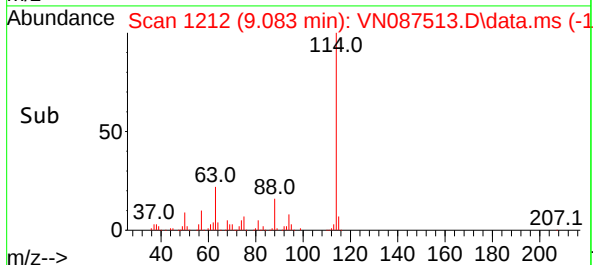
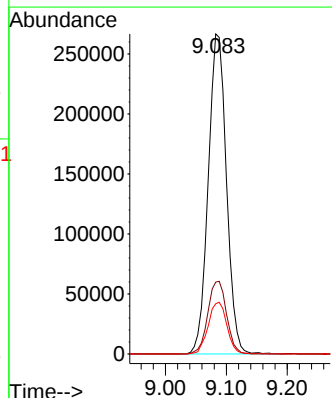
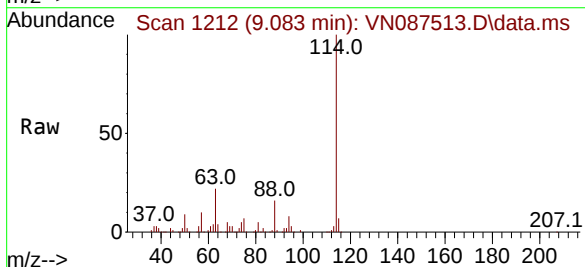
Tgt Ion: 114 Resp: 554436

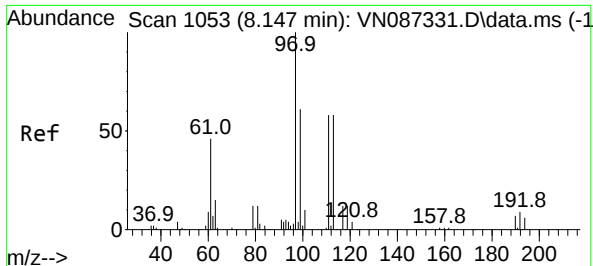
Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.6

88 15.7 0.0 32.8

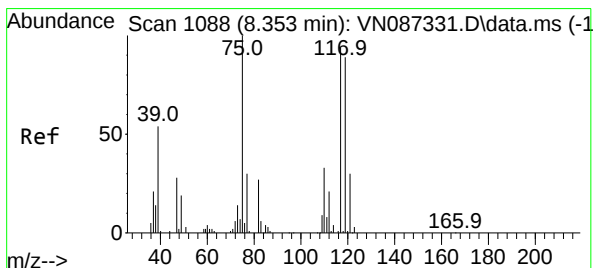
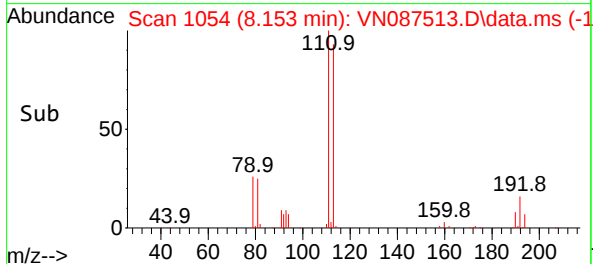
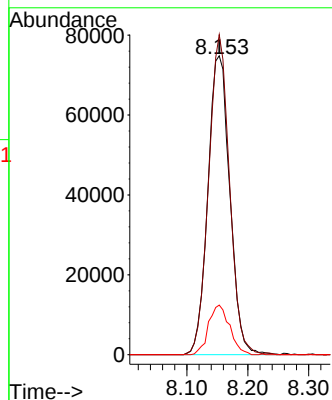
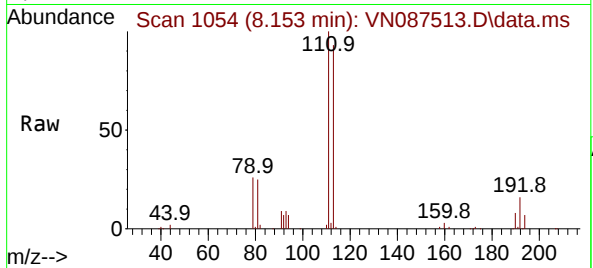




#35
Dibromofluoromethane
Concen: 49.035 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

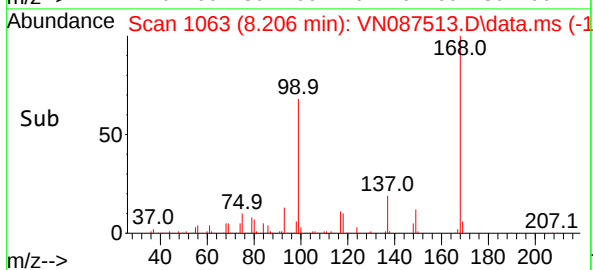
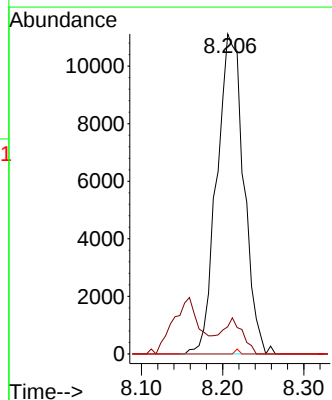
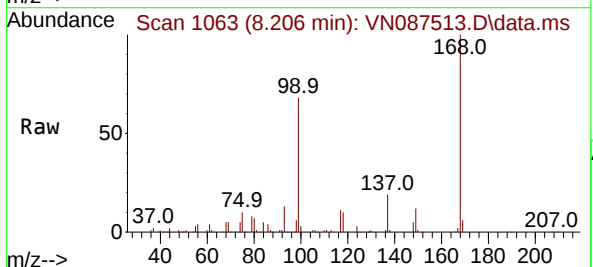
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

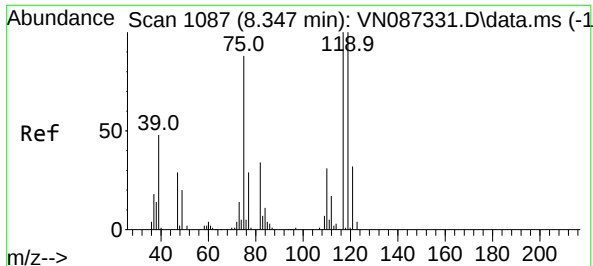
Tgt Ion:113 Resp: 187535
Ion Ratio Lower Upper
113 100
111 101.7 82.5 123.7
192 16.0 13.7 20.5



#36
1,1-Dichloropropene
Concen: 5.063 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 75 Resp: 25584
Ion Ratio Lower Upper
75 100
110 8.5 16.7 50.1#
77 0.2 25.2 37.8#

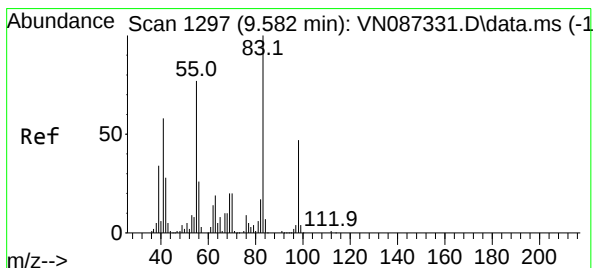
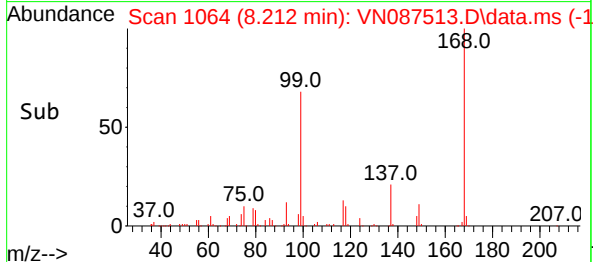
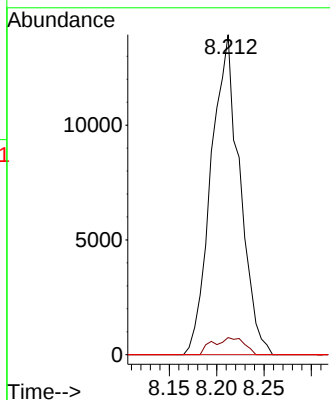
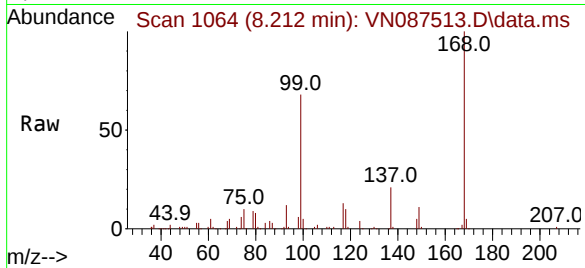




#38
Carbon Tetrachloride
Concen: 5.277 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

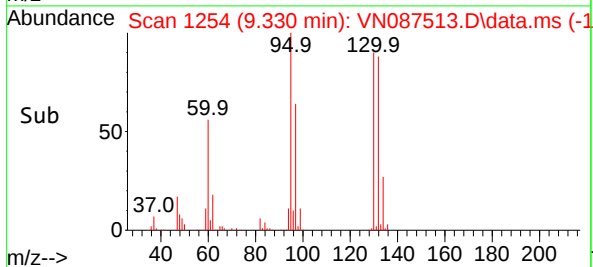
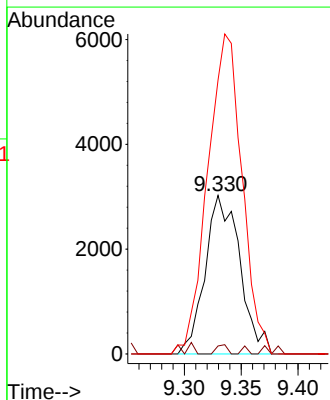
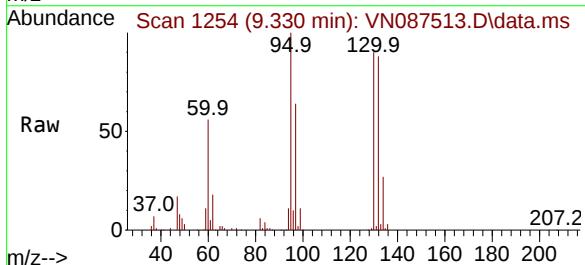
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

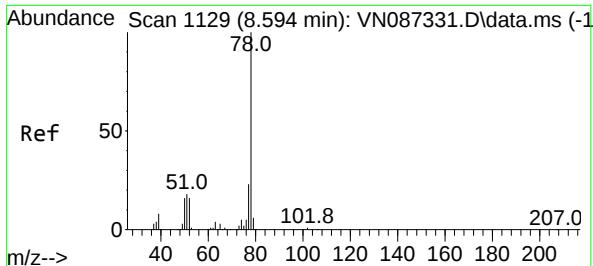
Tgt Ion:117 Resp: 29371
Ion Ratio Lower Upper
117 100
119 5.4 80.2 120.2#
121 0.0 25.4 38.2#



#39
Methylcyclohexane
Concen: 1.176 ug/l
RT: 9.330 min Scan# 1254
Delta R.T. -0.253 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 83 Resp: 6432
Ion Ratio Lower Upper
83 100
55 0.0 61.3 91.9#
98 167.2 37.9 56.9#





#40

Benzene

Concen: 0.207 ug/l

RT: 8.588 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

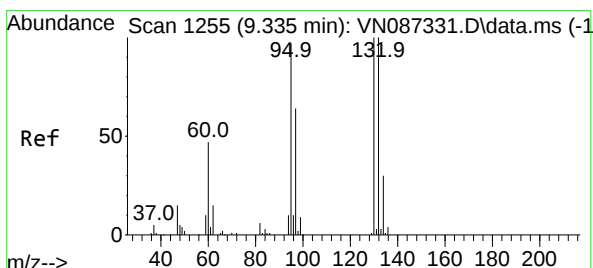
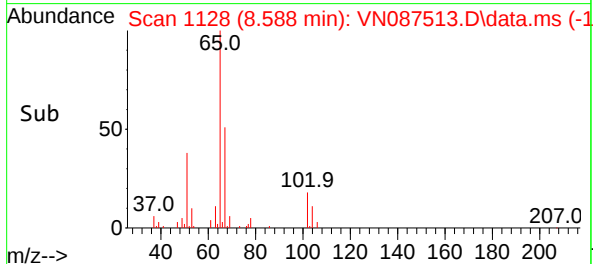
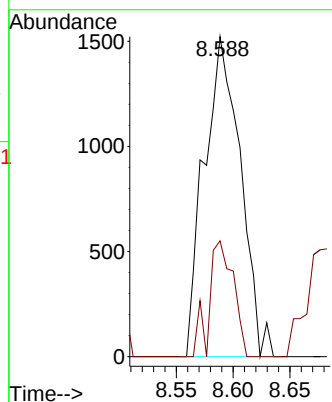
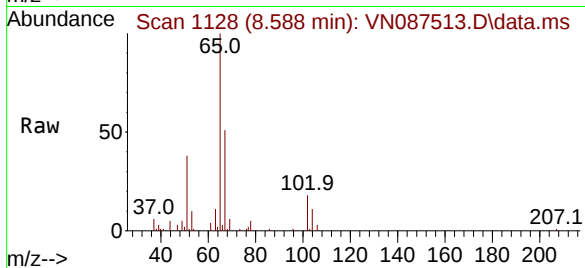
1057-MW-03A(17)

Tgt Ion: 78 Resp: 3380

Ion Ratio Lower Upper

78 100

77 36.2 18.2 27.2#



#44

Trichloroethene

Concen: 116.863 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087513.D

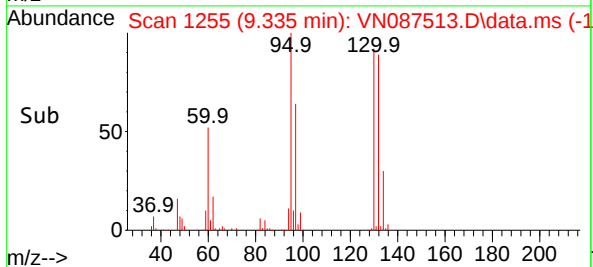
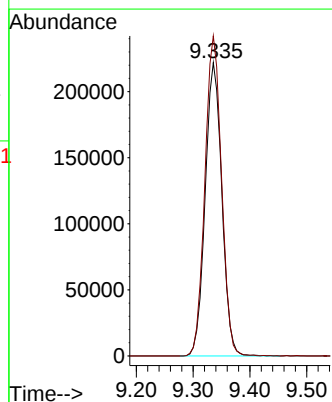
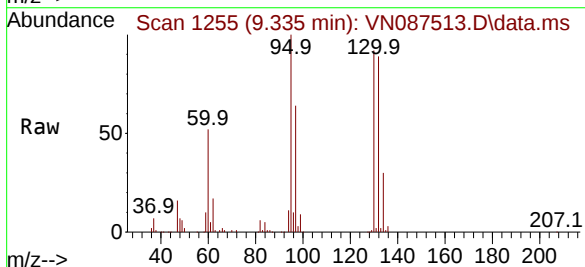
Acq: 12 Aug 2025 14:46

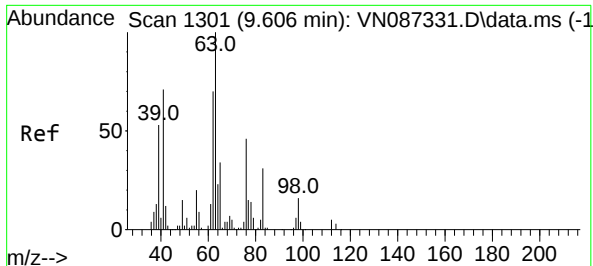
Tgt Ion:130 Resp: 450946

Ion Ratio Lower Upper

130 100

95 109.1 0.0 195.2





#45

1,2-Dichloropropane

Concen: 0.408 ug/l

RT: 9.335 min Scan# 11

Delta R.T. -0.271 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

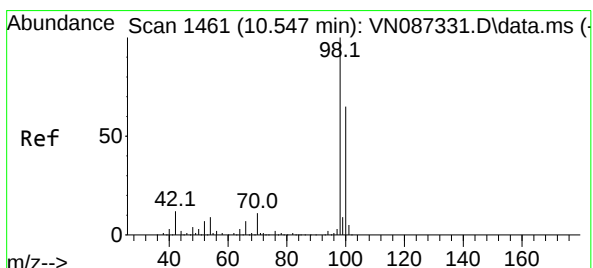
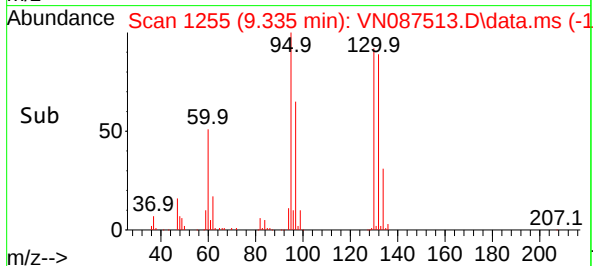
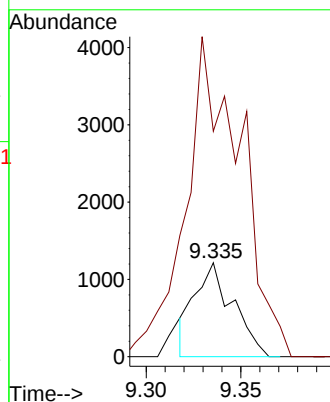
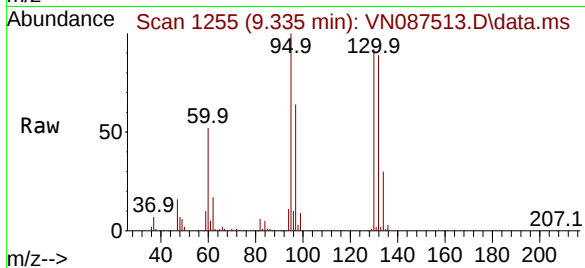
1057-MW-03A(17)

Tgt Ion: 63 Resp: 1695

Ion Ratio Lower Upper

63 100

65 207.8 27.0 40.4#



#50

Toluene-d8

Concen: 51.369 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087513.D

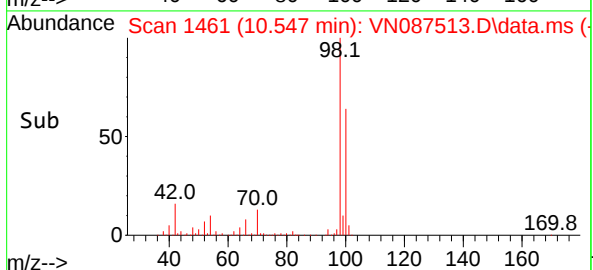
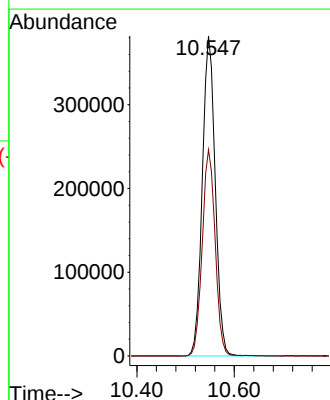
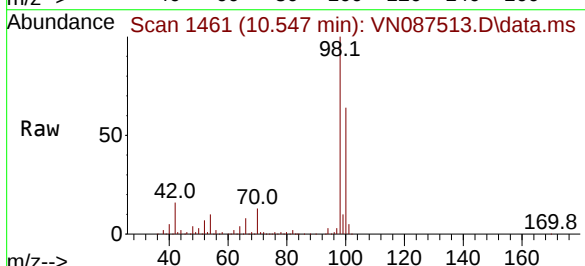
Acq: 12 Aug 2025 14:46

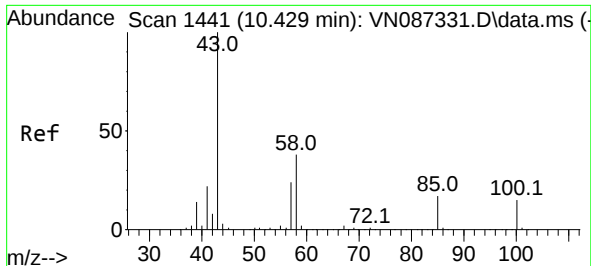
Tgt Ion: 98 Resp: 700794

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1

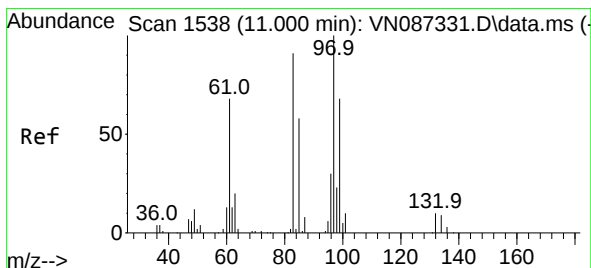
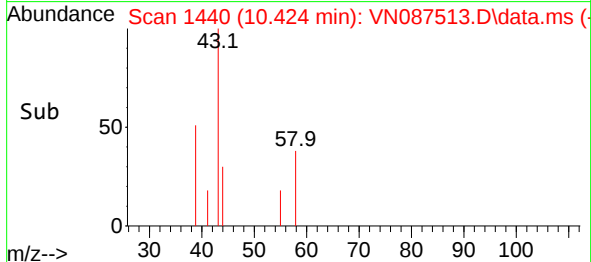
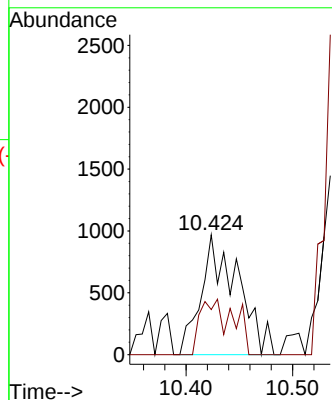
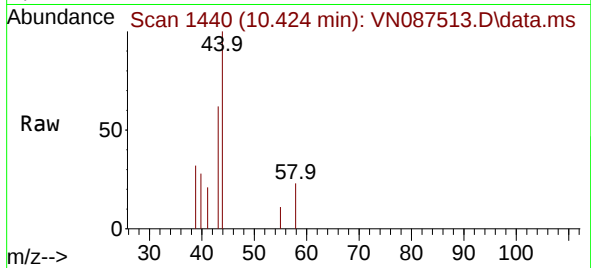




#51
4-Methyl-2-Pentanone
Concen: 0.325 ug/l
RT: 10.424 min Scan# 1441
Delta R.T. -0.005 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

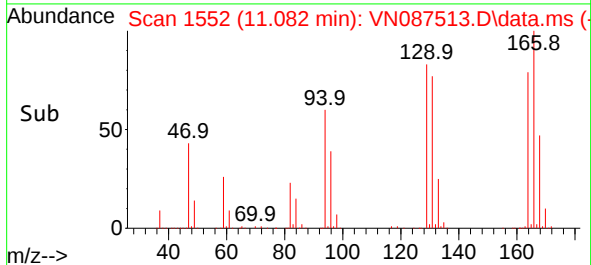
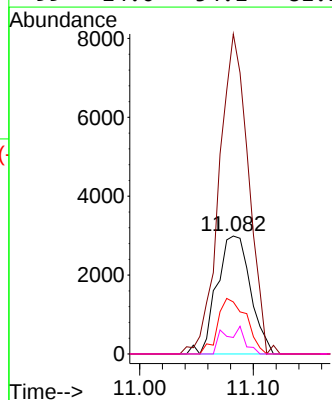
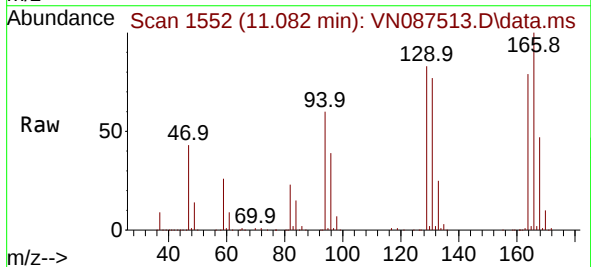
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

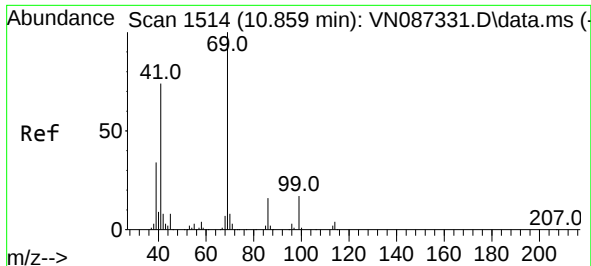
Tgt Ion: 43 Resp: 2327
Ion Ratio Lower Upper
43 100
58 26.2 30.8 46.2#



#55
1,1,2-Trichloroethane
Concen: 1.523 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.082 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 97 Resp: 6120
Ion Ratio Lower Upper
97 100
83 271.4 72.6 109.0#
85 44.2 46.7 70.1#
99 14.0 54.1 81.1#

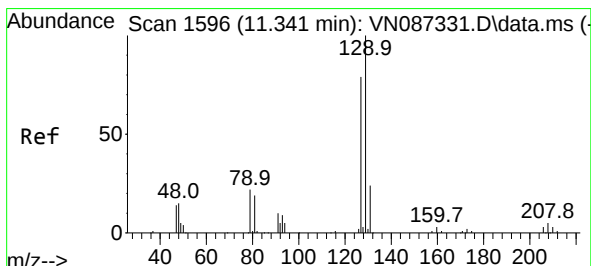
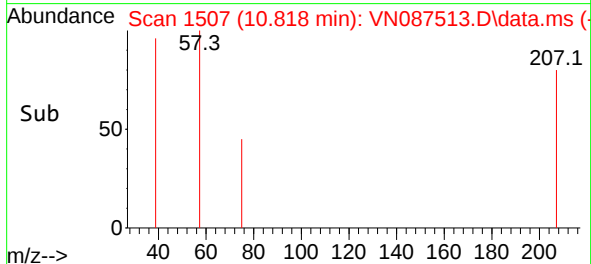
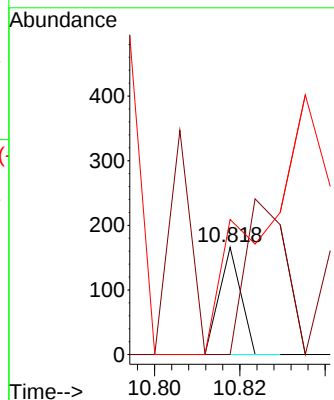
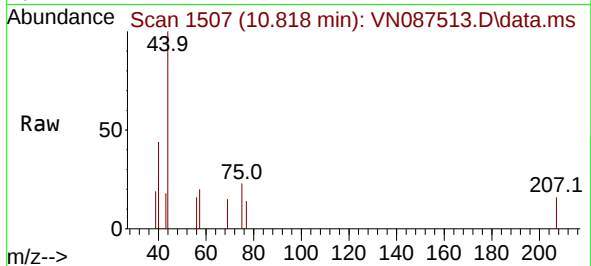




#56
Ethyl methacrylate
Concen: 0.644 ug/l
RT: 10.818 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

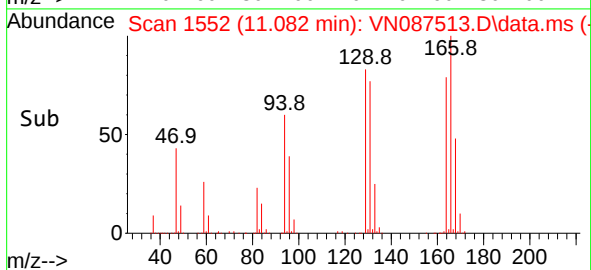
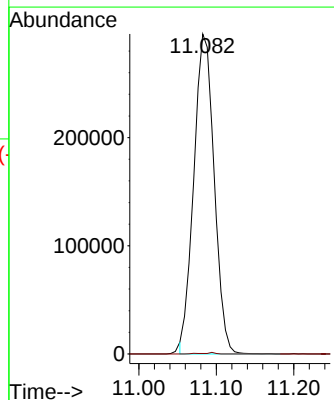
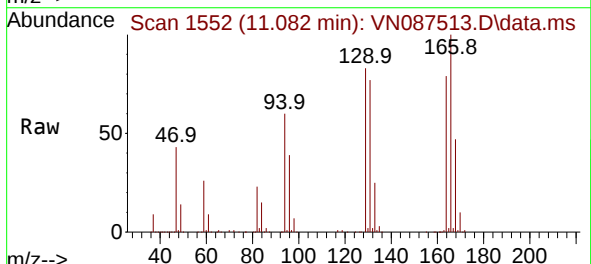
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

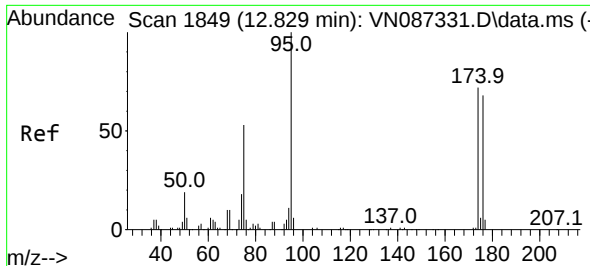
Tgt Ion: 69 Resp: 59
Ion Ratio Lower Upper
69 100
41 264.4 55.1 82.7#
39 755.9 27.9 41.9#



#60
Dibromochloromethane
Concen: 117.780 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.259 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion:129 Resp: 539789
Ion Ratio Lower Upper
129 100
127 0.3 39.1 117.5#

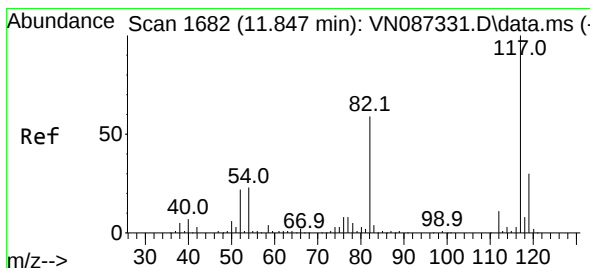
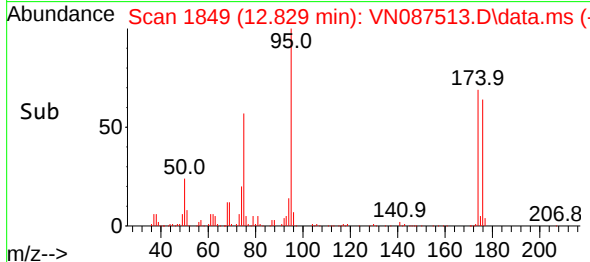
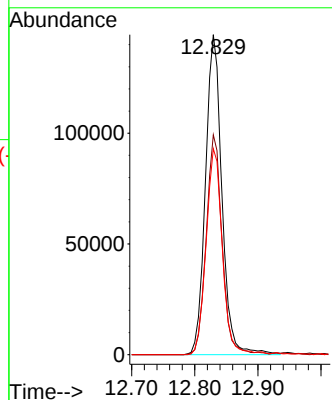
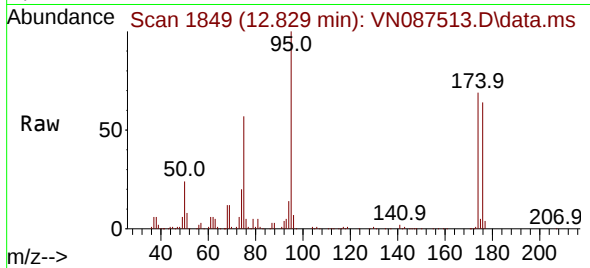




#62
4-Bromofluorobenzene
Concen: 51.930 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

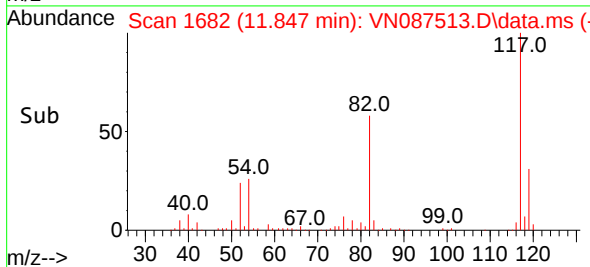
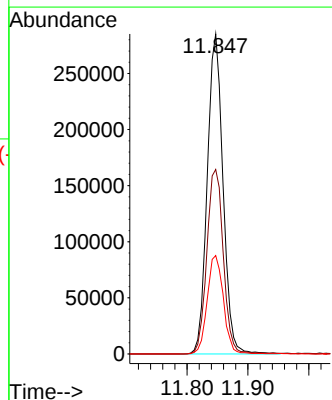
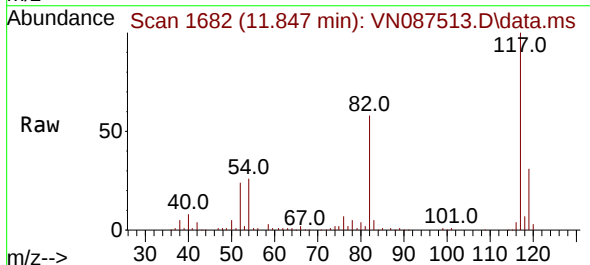
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

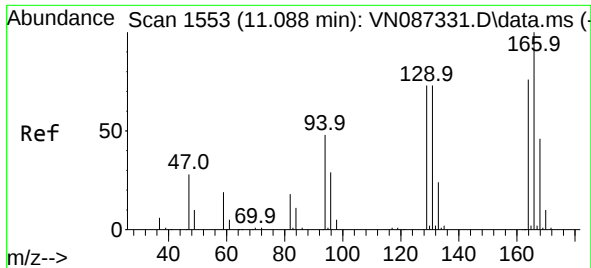
Tgt Ion: 95 Resp: 261737
Ion Ratio Lower Upper
95 100
174 66.5 0.0 149.4
176 63.7 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion: 117 Resp: 512804
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 30.7 23.8 35.8

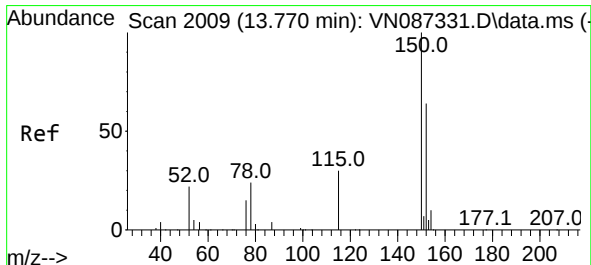
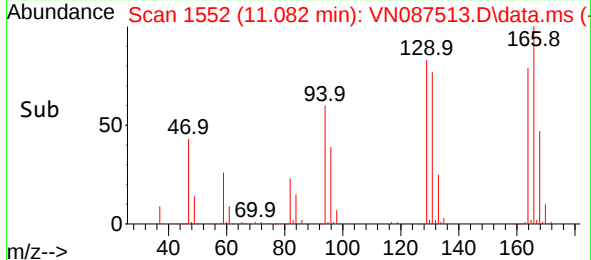
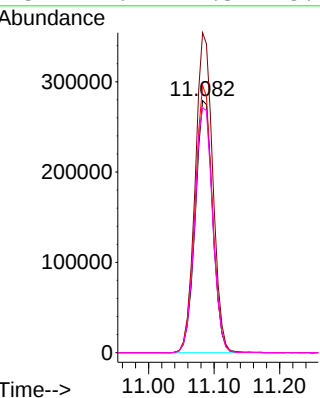
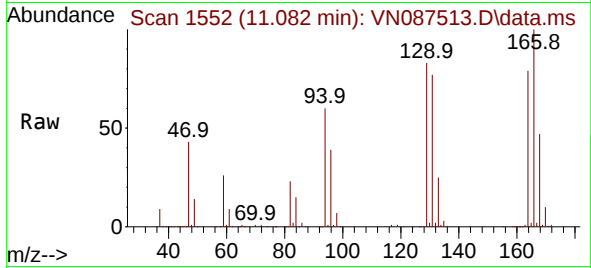




#64
Tetrachloroethene
Concen: 156.096 ug/l
RT: 11.082 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

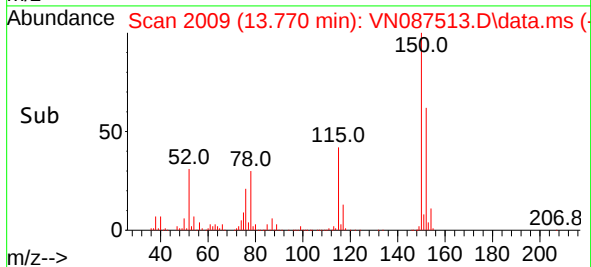
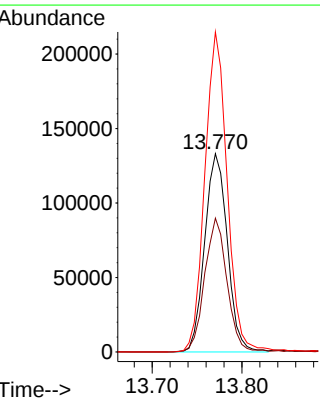
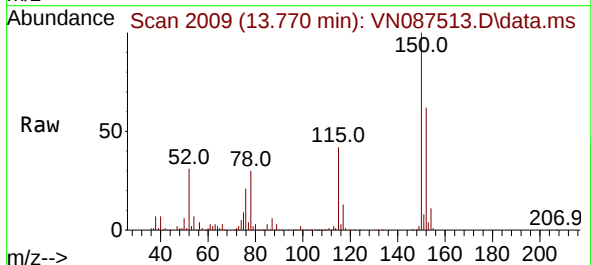
Instrument :
MSVOA_N
ClientSampleId :
1057-MW-03A(17)

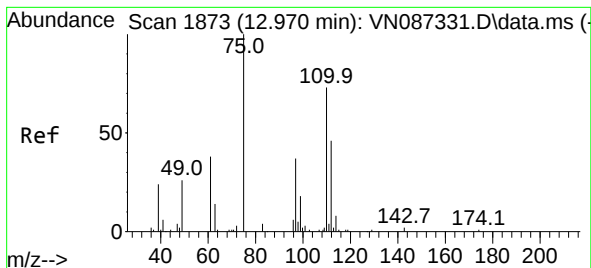
Tgt Ion:164 Resp: 515186
Ion Ratio Lower Upper
164 100
166 126.9 105.5 158.3
129 106.0 77.4 116.2
131 97.2 77.3 115.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087513.D
Acq: 12 Aug 2025 14:46

Tgt Ion:152 Resp: 233578
Ion Ratio Lower Upper
152 100
115 66.5 31.1 93.5
150 159.8 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 28.506 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

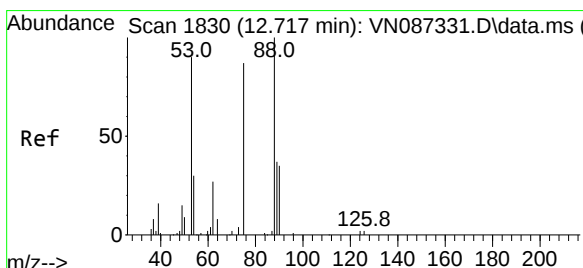
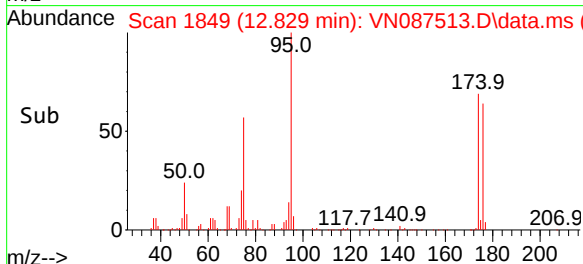
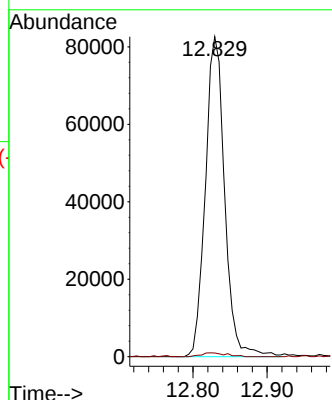
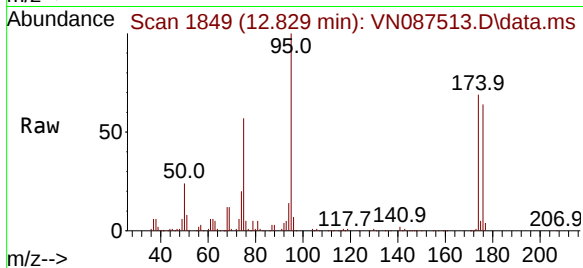
1057-MW-03A(17)

Tgt Ion: 75 Resp: 149309

Ion Ratio Lower Upper

75 100

77 1.6 94.5 283.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.997 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087513.D

Acq: 12 Aug 2025 14:46

Tgt Ion: 75 Resp: 149309

Ion Ratio Lower Upper

75 100

53 0.0 83.5 125.3#

89 0.0 38.4 57.6#

