

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050625\
 Data File : VN086511.D
 Acq On : 06 May 2025 13:46
 Operator : JC\MD
 Sample : Q1951-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-KK

Quant Time: May 07 02:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

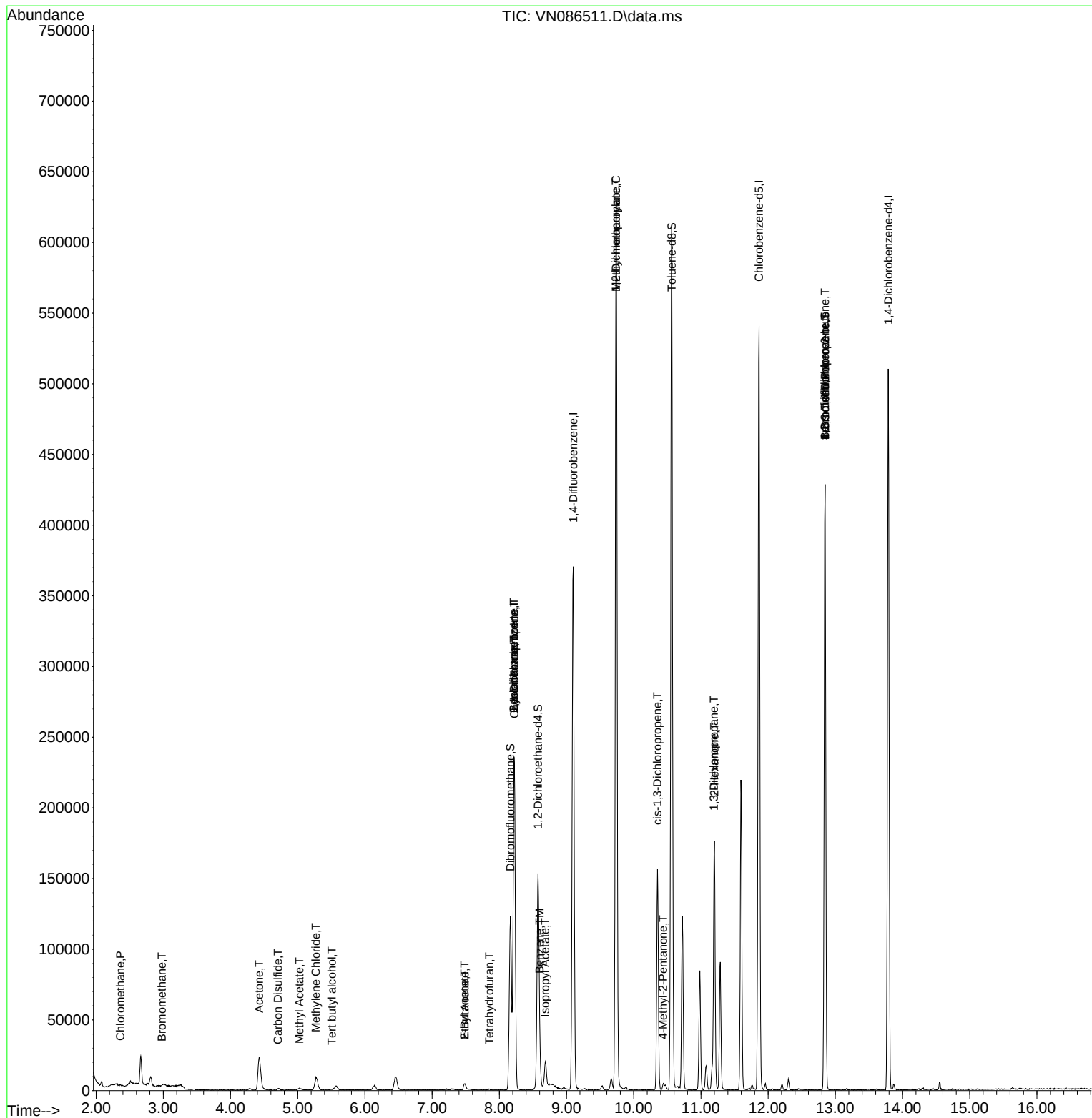
Internal Standards						
1) Pentafluorobenzene	8.218	168	177811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	334407	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320097	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	139385	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124705	48.365	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.720%		
35) Dibromofluoromethane	8.165	113	90358	58.219	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	116.440%		
50) Toluene-d8	10.565	98	425599	51.309	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.620%		
62) 4-Bromofluorobenzene	12.847	95	150069	49.602	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.200%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	738	0.241	ug/l	99
5) Bromomethane	2.977	94	509	0.387	ug/l #	3
11) Tert butyl alcohol	5.506	59	369	0.784	ug/l #	72
13) Acrolein	4.195	56	253	Below Cal		97
16) Acetone	4.424	43	45563	46.464	ug/l	97
17) Carbon Disulfide	4.706	76	1556	0.248	ug/l #	74
18) Methyl Acetate	5.024	43	2689	0.869	ug/l #	79
20) Methylene Chloride	5.271	84	7629	3.201	ug/l	89
25) 2-Butanone	7.483	43	7987	4.977	ug/l	92
29) Tetrahydrofuran	7.853	42	558	0.520	ug/l #	48
31) Cyclohexane	8.218	56	3917	0.937	ug/l #	16
36) 1,1-Dichloropropene	8.218	75	14377	4.638	ug/l #	51
37) Ethyl Acetate	7.483	43	7987	2.447	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17985	6.092	ug/l #	17
40) Benzene	8.600	78	11224	1.130	ug/l	92
43) Isopropyl Acetate	8.683	43	26083	2.640	ug/l #	87
45) 1,2-Dichloropropane	9.735	63	739	0.304	ug/l #	43
48) Methyl methacrylate	9.735	41	58386	20.372	ug/l #	43
51) 4-Methyl-2-Pentanone	10.435	43	2497	0.747	ug/l #	81
54) cis-1,3-Dichloropropene	10.353	75	29272	7.136	ug/l #	57
57) 1,3-Dichloropropane	11.194	76	2049	0.518	ug/l #	43
59) 2-Hexanone	11.200	43	38328	15.462	ug/l #	41
71) Bromoform	12.847	173	608	0.343	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	77215	23.475	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77215	56.378	ug/l #	10

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

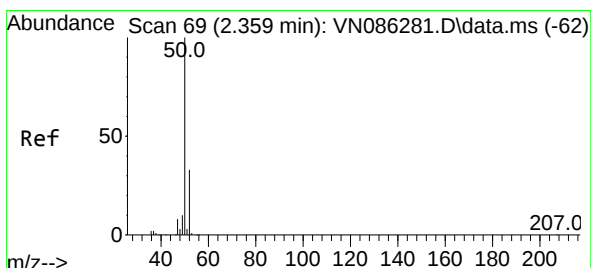
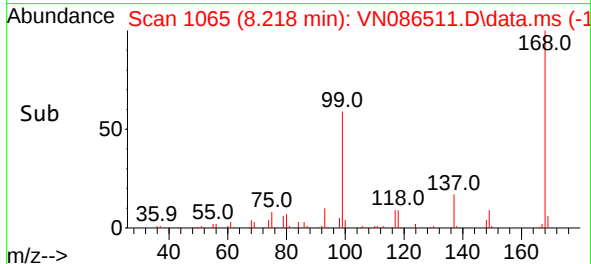
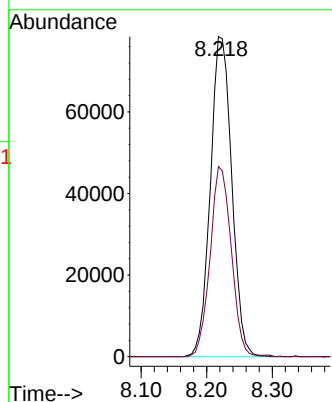
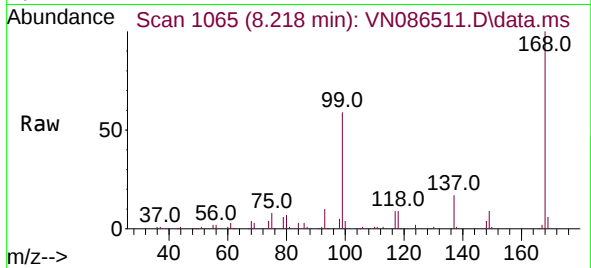




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

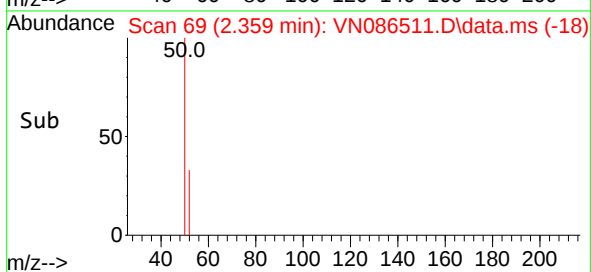
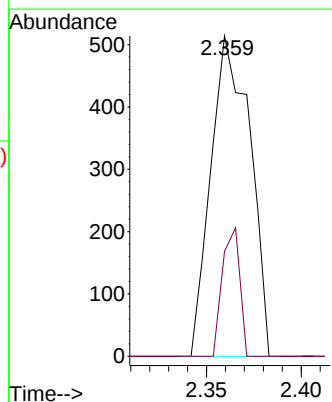
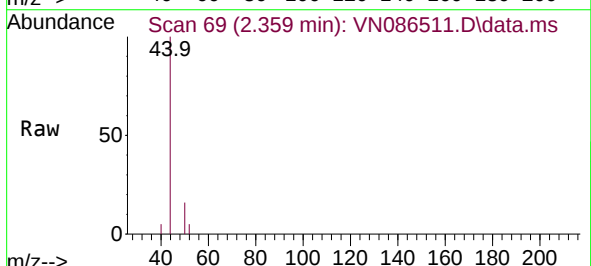
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

Tgt Ion:168 Resp: 177811
Ion Ratio Lower Upper
168 100
99 59.4 52.5 78.7



#3
Chloromethane
Concen: 0.241 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 50 Resp: 738
Ion Ratio Lower Upper
50 100
52 32.7 26.5 39.7

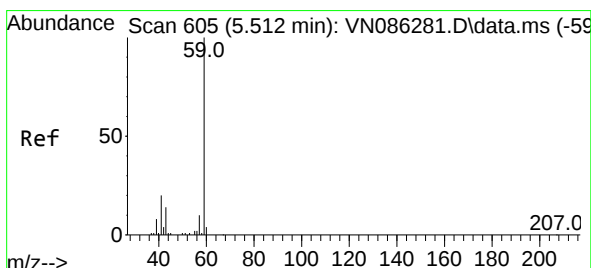
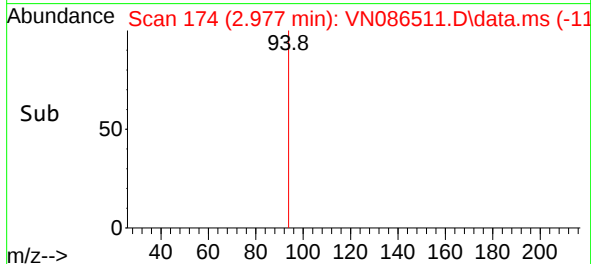
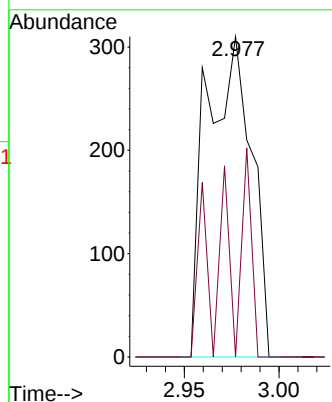
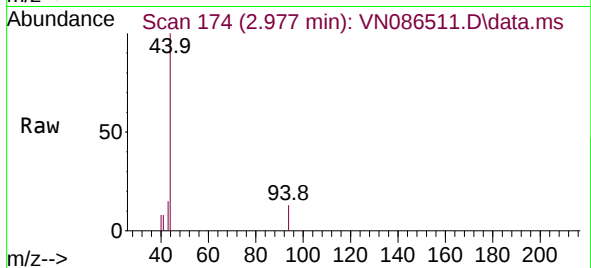




#5
Bromomethane
Concen: 0.387 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

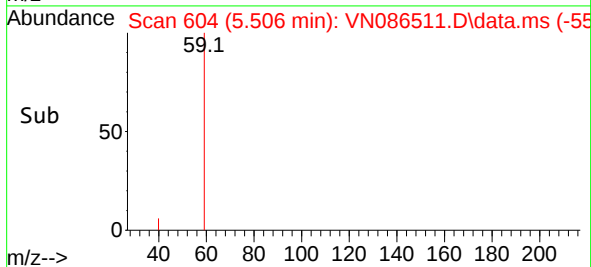
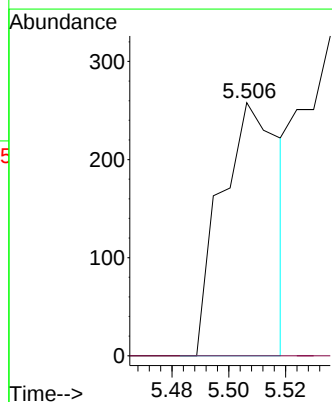
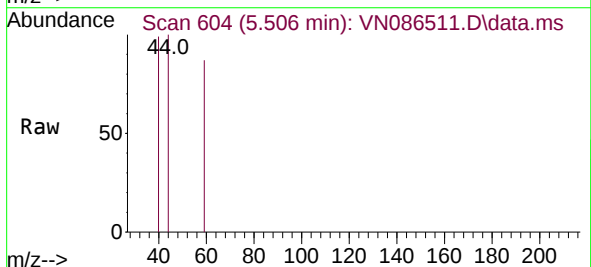
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

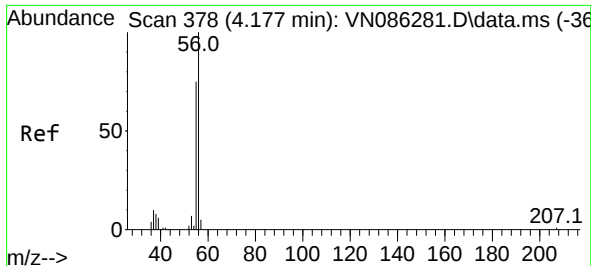
Tgt Ion: 94 Resp: 509
Ion Ratio Lower Upper
94 100
96 0.0 75.2 112.8#



#11
Tert butyl alcohol
Concen: 0.784 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 59 Resp: 369
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

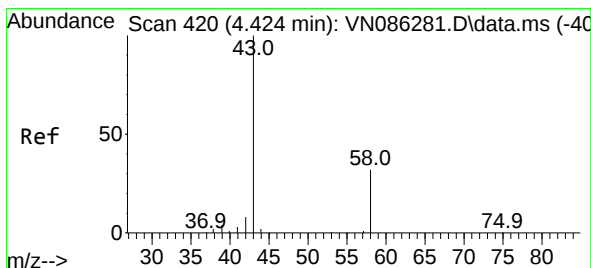
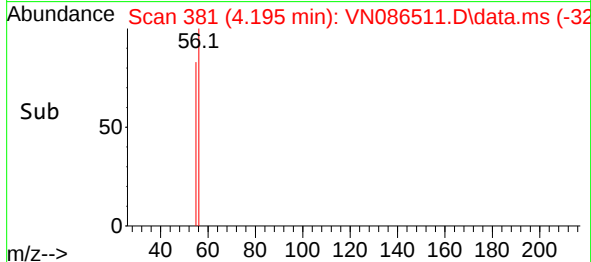
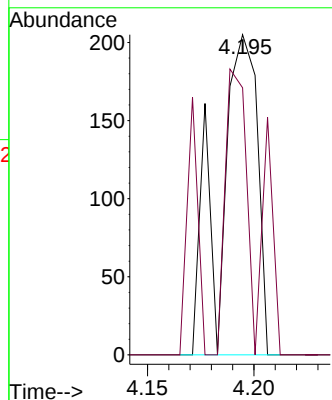
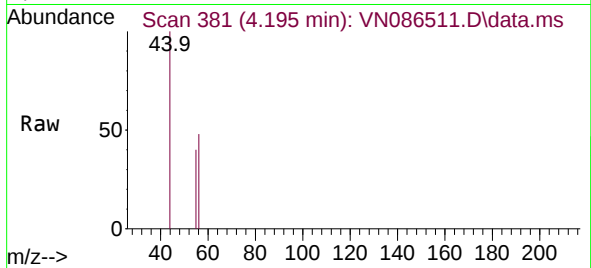




#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

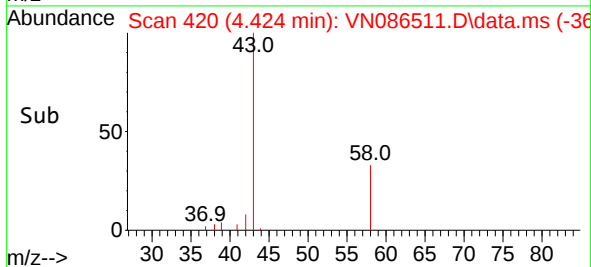
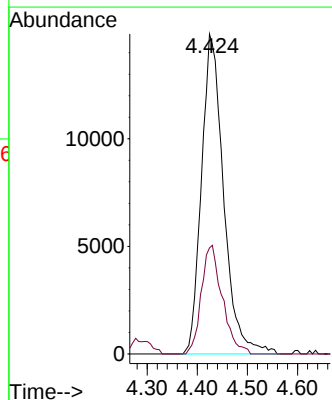
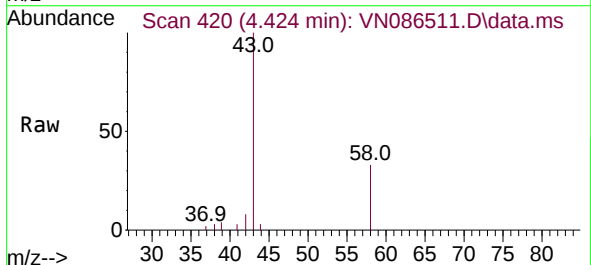
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

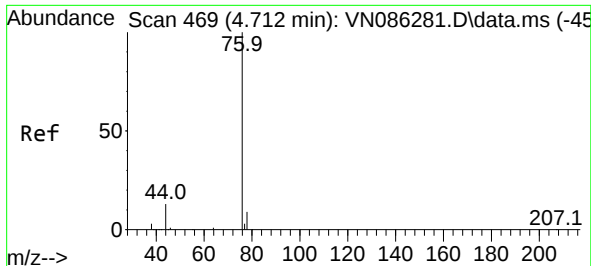
Tgt Ion: 56 Resp: 253
Ion Ratio Lower Upper
56 100
55 70.8 58.5 87.7



#16
Acetone
Concen: 46.464 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 43 Resp: 45563
Ion Ratio Lower Upper
43 100
58 33.2 25.3 37.9

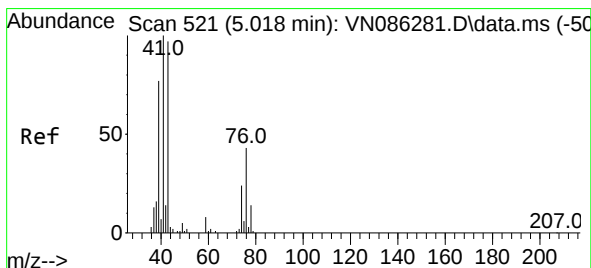
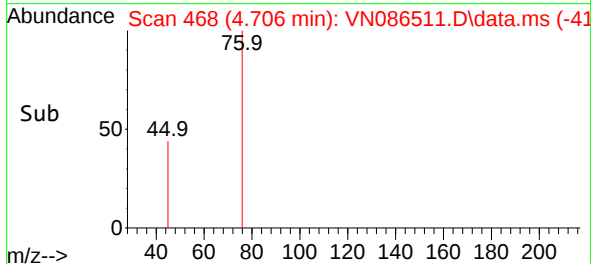
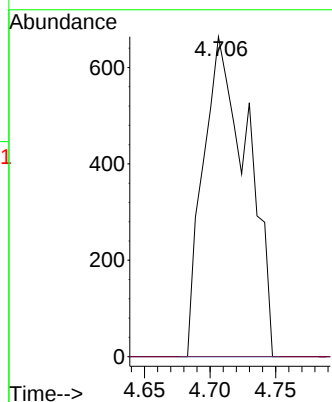
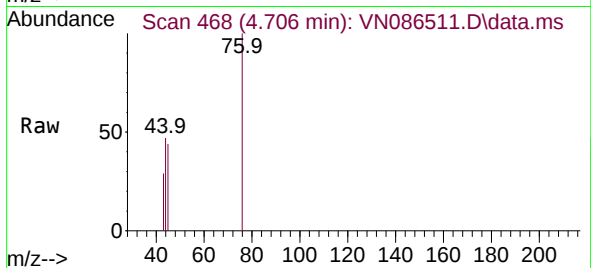




#17
Carbon Disulfide
Concen: 0.248 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

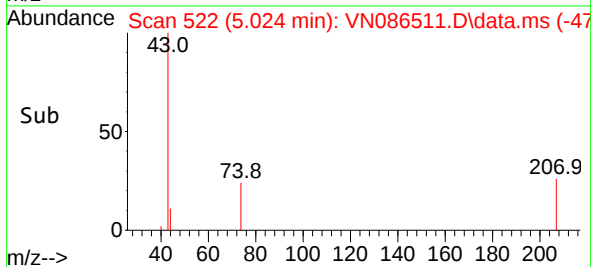
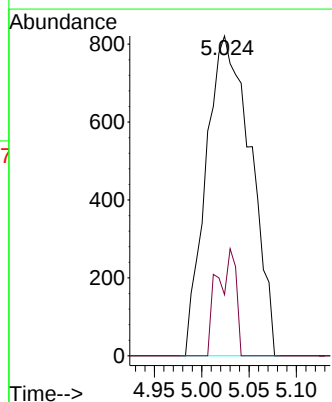
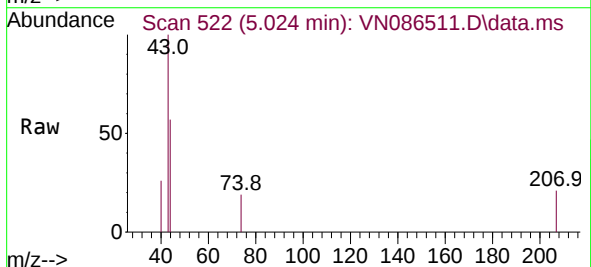
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

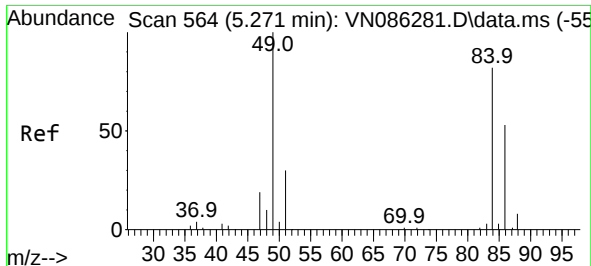
Tgt Ion: 76 Resp: 1556
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.869 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 43 Resp: 2689
Ion Ratio Lower Upper
43 100
74 14.1 19.8 29.6#

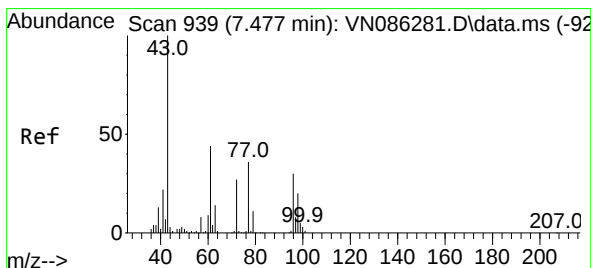
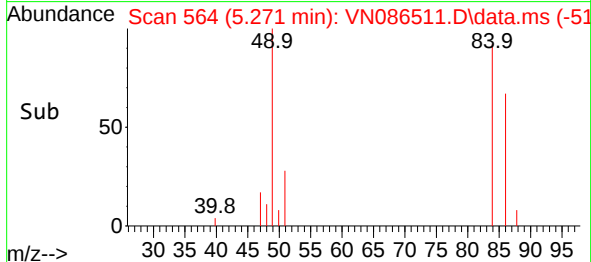
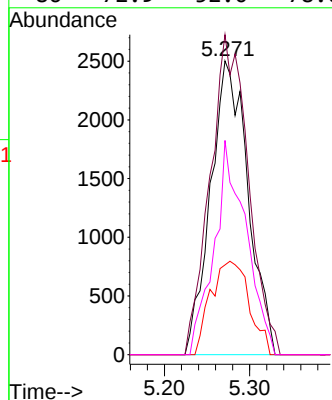
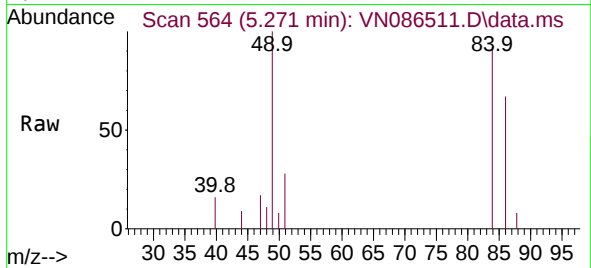




#20
Methylene Chloride
Concen: 3.201 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

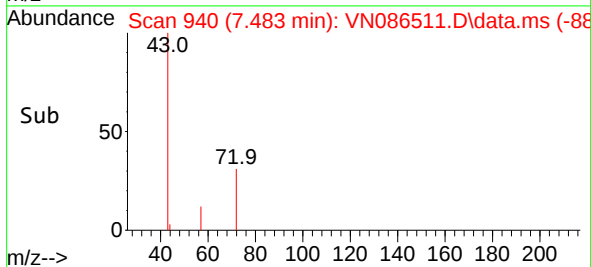
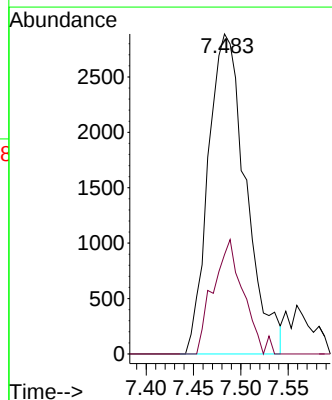
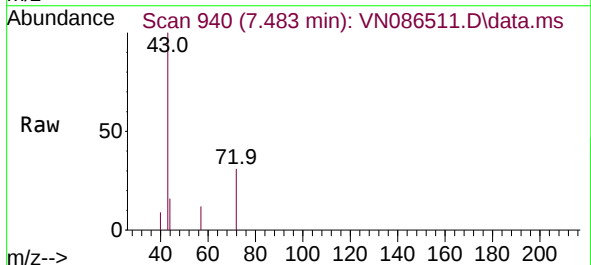
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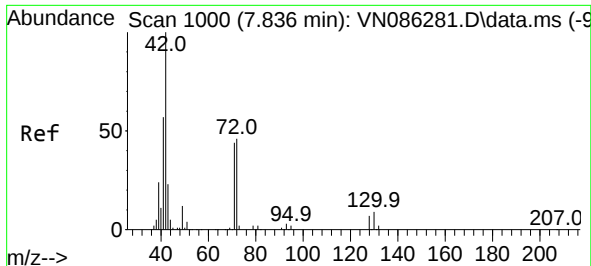
Tgt Ion:	84	Resp:	7629
Ion	Ratio	Lower	Upper
84	100		
49	108.9	98.2	147.2
51	30.6	29.8	44.6
86	72.9	52.0	78.0



#25
2-Butanone
Concen: 4.977 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion:	43	Resp:	7987
Ion	Ratio	Lower	Upper
43	100		
72	31.0	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.520 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

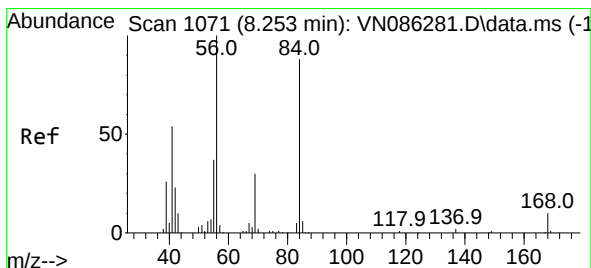
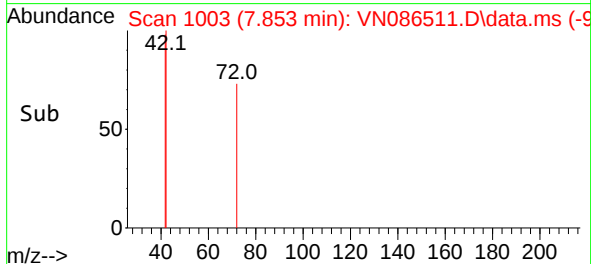
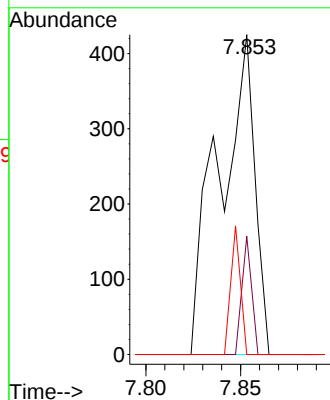
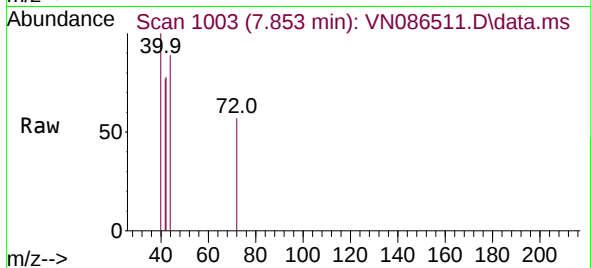
Instrument :

MSVOA_N

ClientSampleId :

MH-KK

Tgt Ion:	42	Resp:	558
Ion	Ratio	Lower	Upper
42	100		
72	9.9	36.2	54.4#
71	10.8	34.0	51.0#



#31

Cyclohexane

Concen: 0.937 ug/l

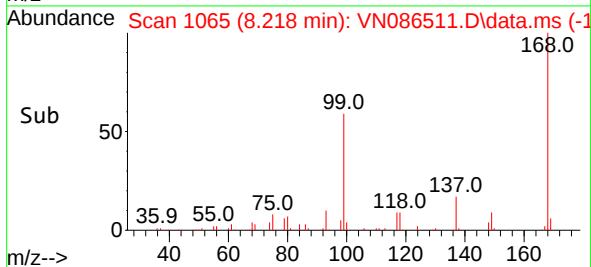
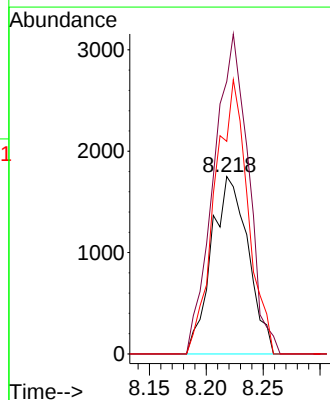
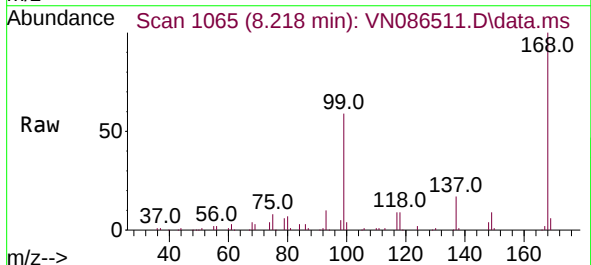
RT: 8.218 min Scan# 1065

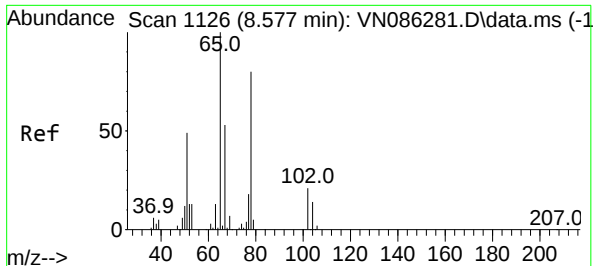
Delta R.T. -0.035 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

Tgt Ion:	56	Resp:	3917
Ion	Ratio	Lower	Upper
56	100		
69	153.6	24.2	36.2#
84	119.8	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.365 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

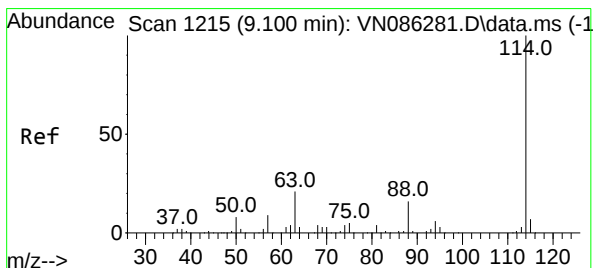
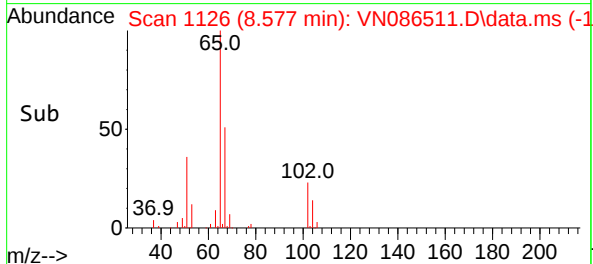
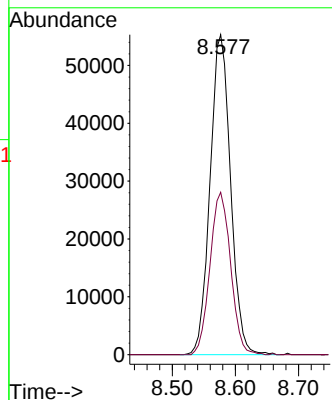
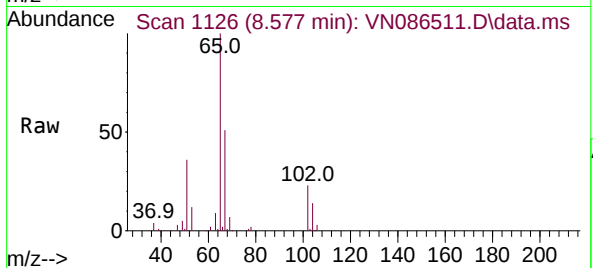
MH-KK

Tgt Ion: 65 Resp: 124705

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

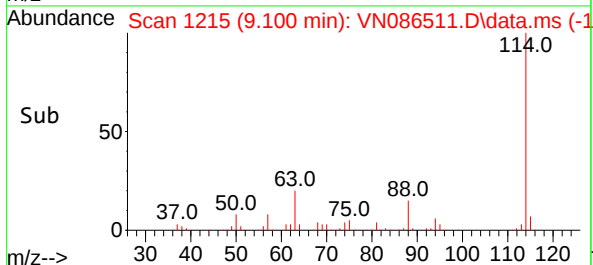
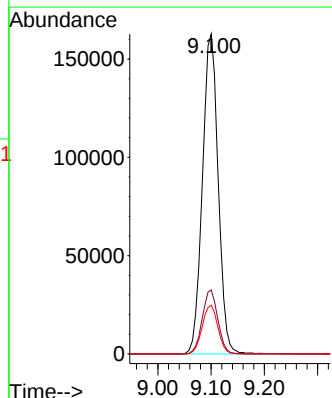
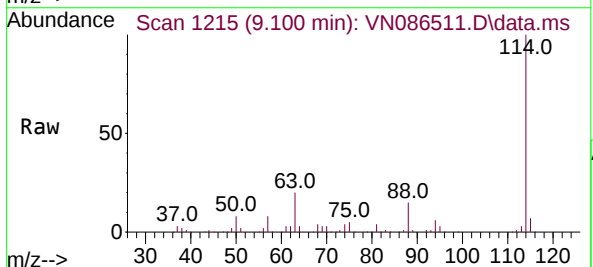
Tgt Ion: 114 Resp: 334407

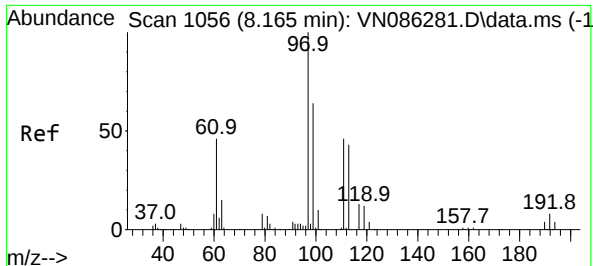
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.2 0.0 31.8

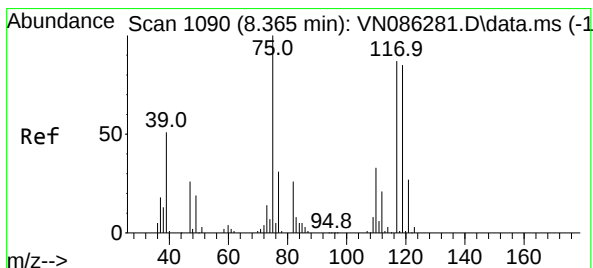
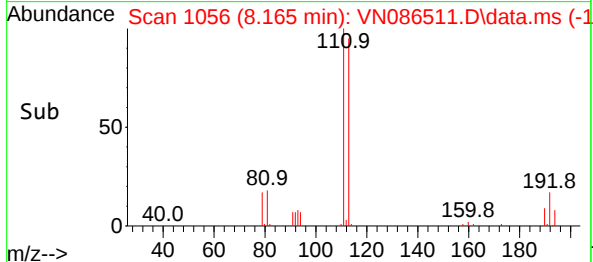
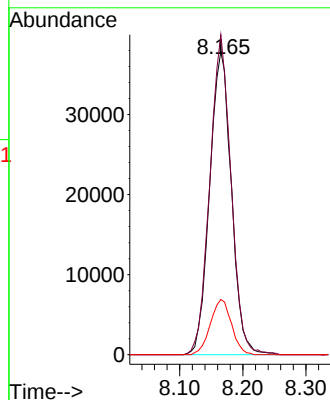
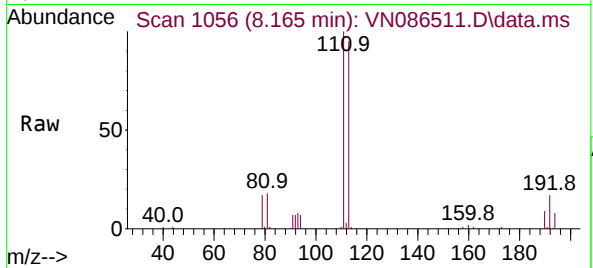




#35
Dibromofluoromethane
Concen: 58.219 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

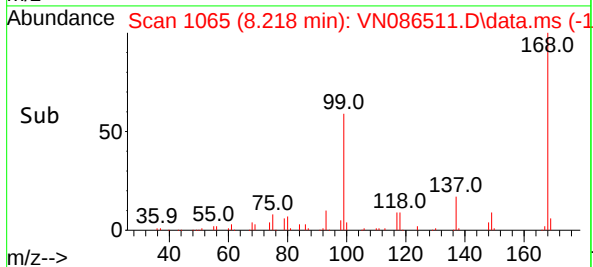
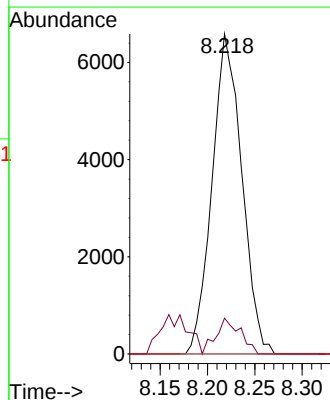
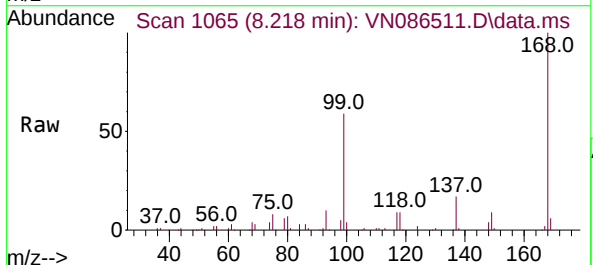
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

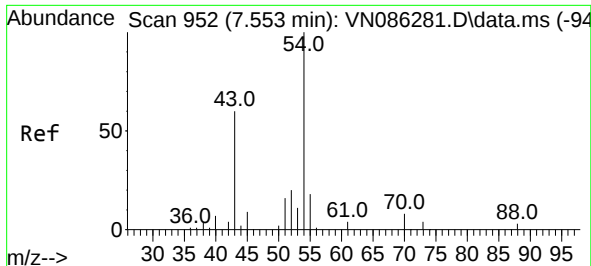
Tgt Ion:113 Resp: 90358
Ion Ratio Lower Upper
113 100
111 103.2 83.4 125.0
192 17.7 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.638 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 75 Resp: 14377
Ion Ratio Lower Upper
75 100
110 9.1 16.8 50.4#
77 0.0 24.9 37.3#

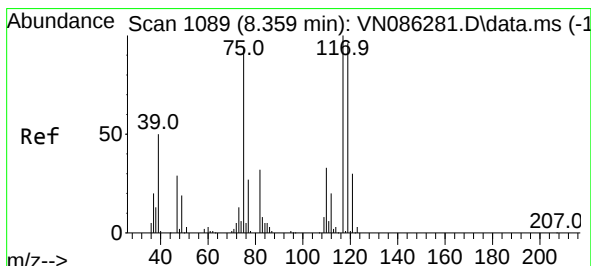
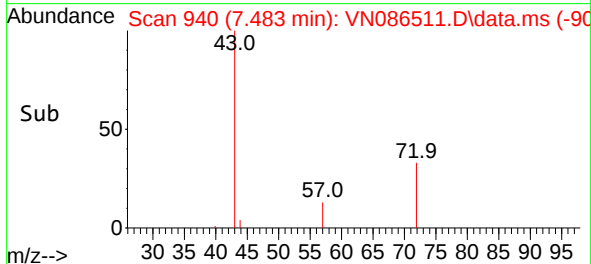
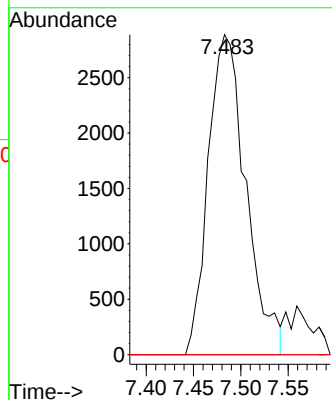
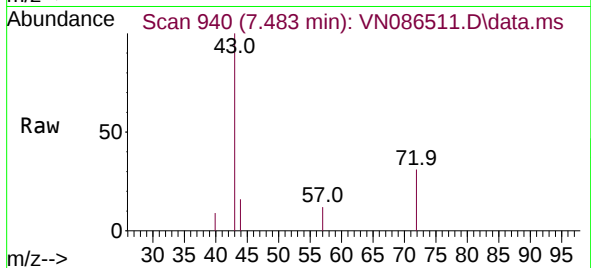




#37
Ethyl Acetate
Concen: 2.447 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.071 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

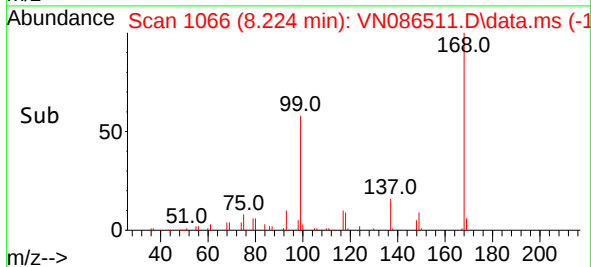
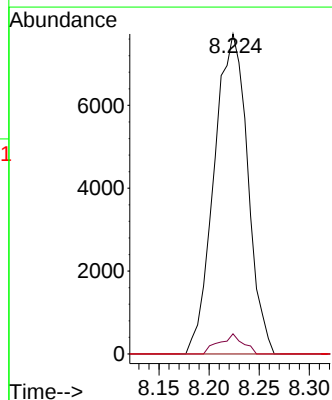
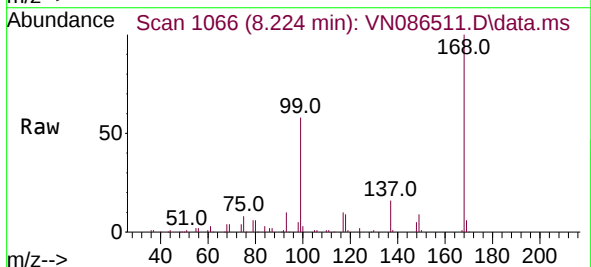
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

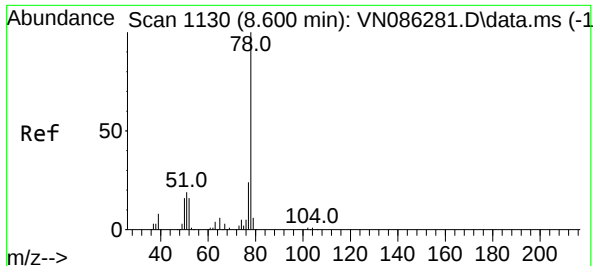
Tgt Ion: 43 Resp: 7987
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



#38
Carbon Tetrachloride
Concen: 6.092 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 117 Resp: 17985
Ion Ratio Lower Upper
117 100
119 6.3 76.8 115.2#
121 0.0 23.8 35.8#

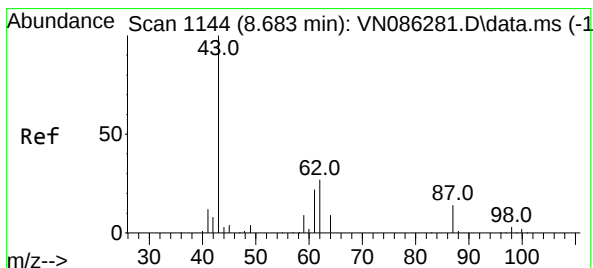
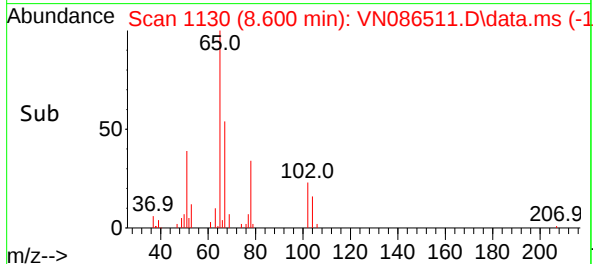
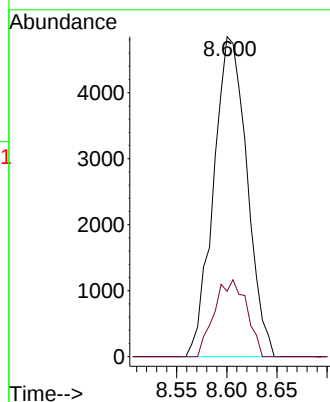
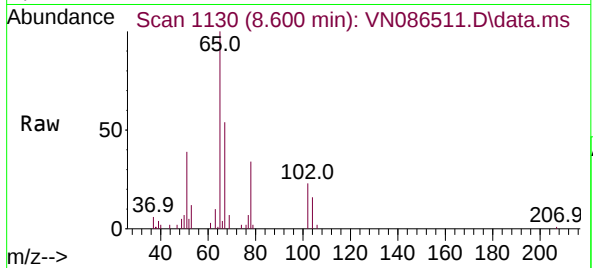




#40
Benzene
Concen: 1.130 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

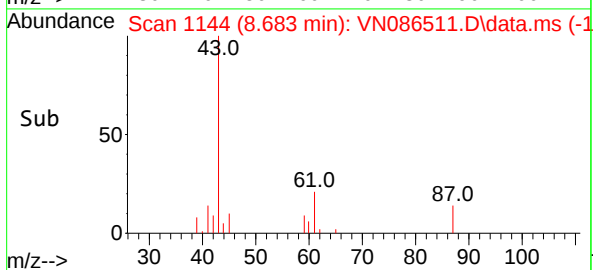
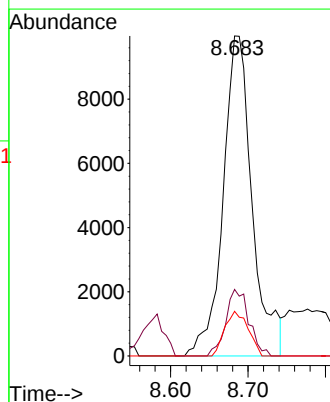
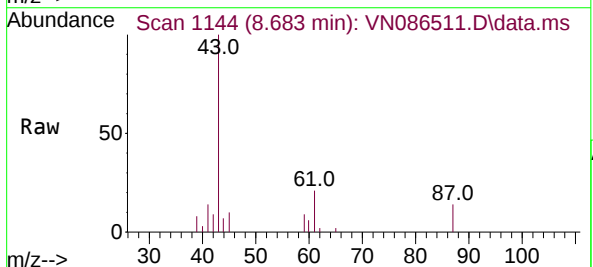
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

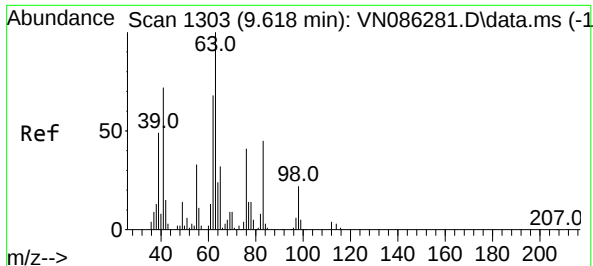
Tgt Ion: 78 Resp: 11224
Ion Ratio Lower Upper
78 100
77 20.5 19.4 29.2



#43
Isopropyl Acetate
Concen: 2.640 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 43 Resp: 26083
Ion Ratio Lower Upper
43 100
61 16.6 20.5 30.7#
87 11.3 10.5 15.7





#45

1,2-Dichloropropane

Concen: 0.304 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

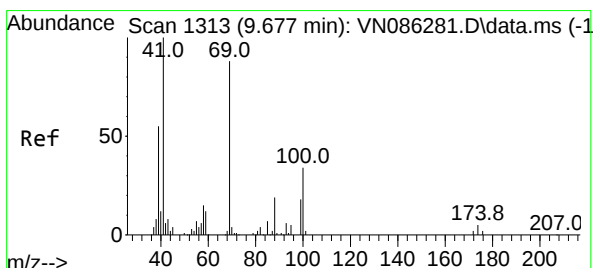
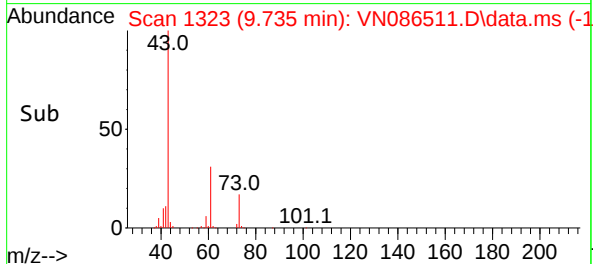
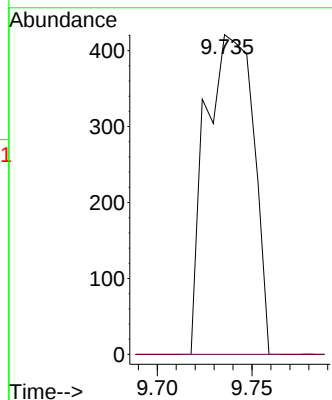
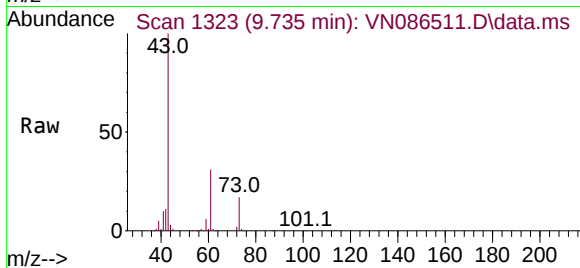
MH-KK

Tgt Ion: 63 Resp: 739

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 20.372 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

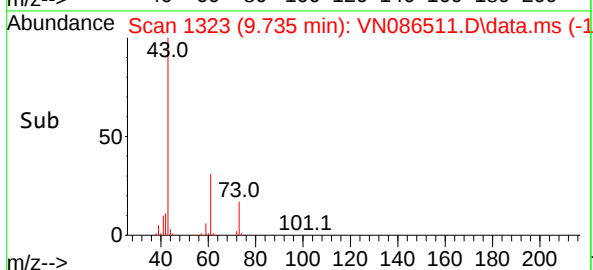
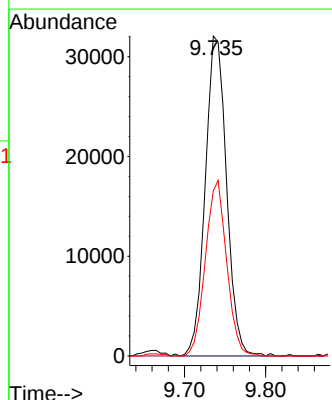
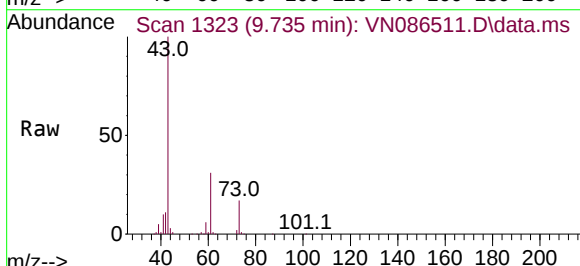
Tgt Ion: 41 Resp: 58386

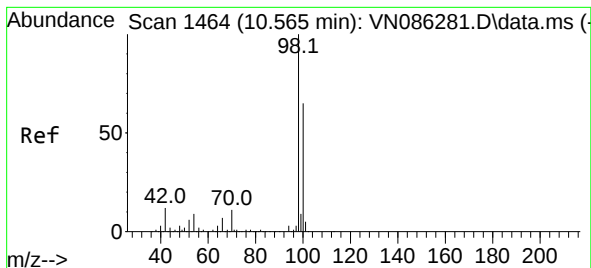
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.8 45.2 67.8

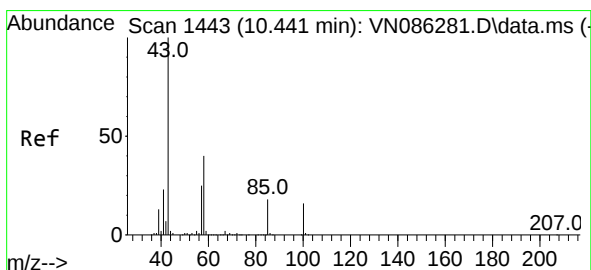
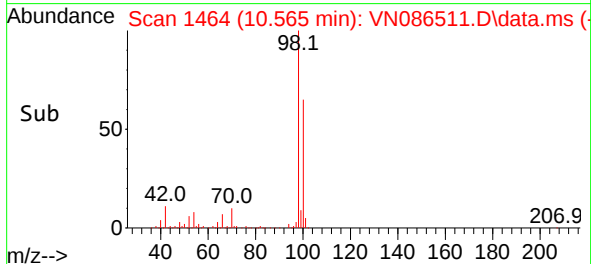
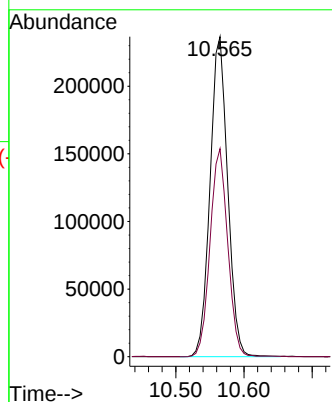
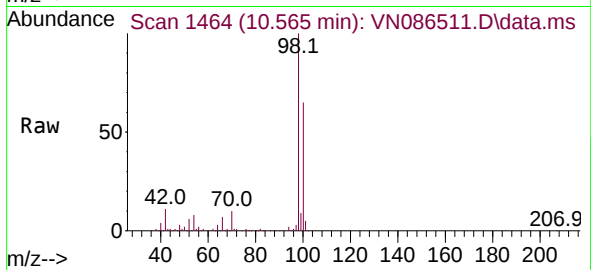




#50
Toluene-d8
Concen: 51.309 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

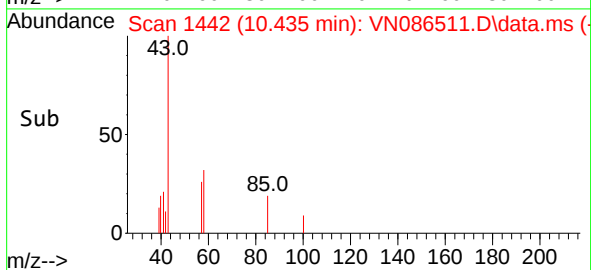
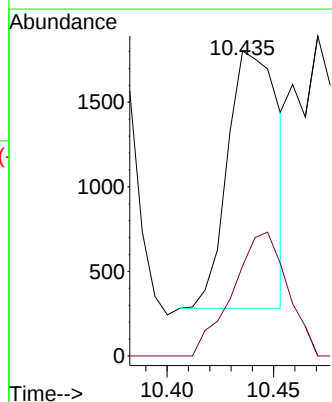
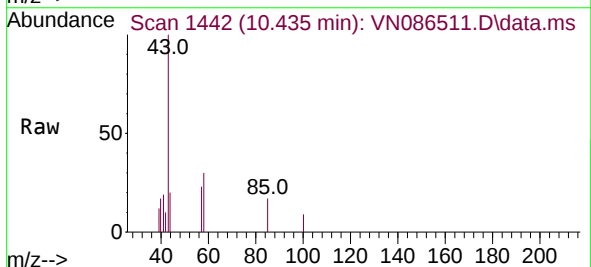
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

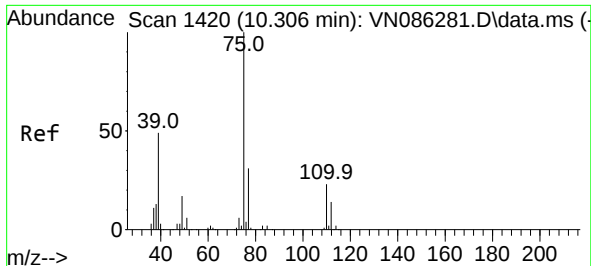
Tgt Ion: 98 Resp: 425599
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.747 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 43 Resp: 2497
Ion Ratio Lower Upper
43 100
58 52.1 32.2 48.4#

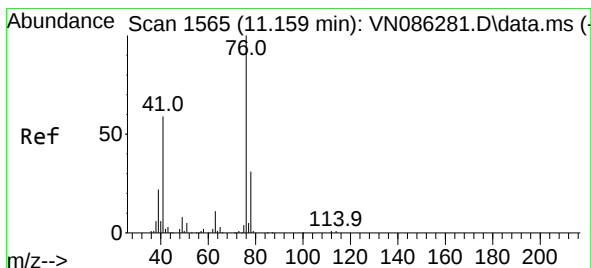
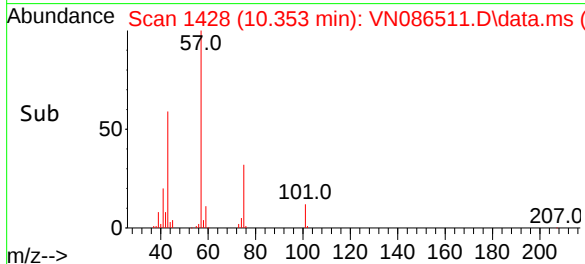
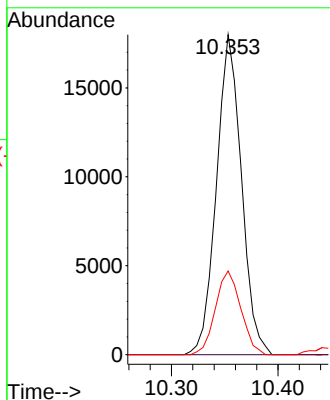
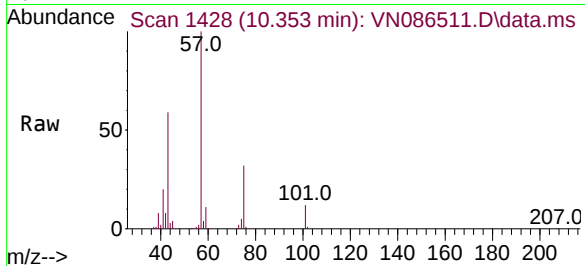




#54
 cis-1,3-Dichloropropene
 Concen: 7.136 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086511.D
 Acq: 06 May 2025 13:46

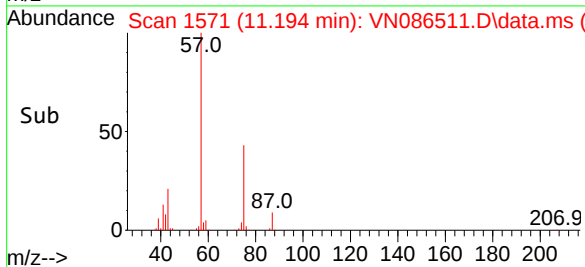
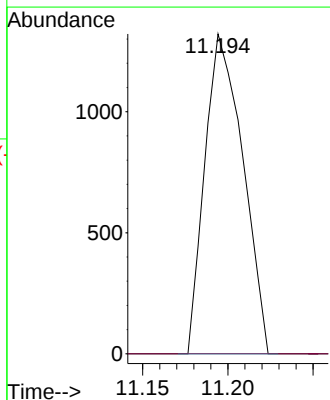
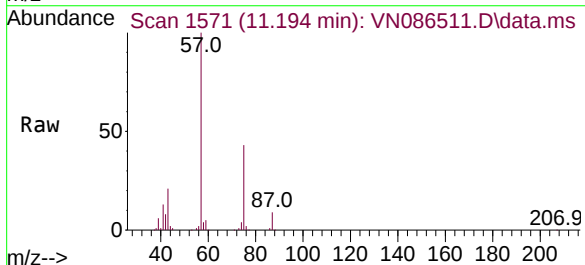
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-KK

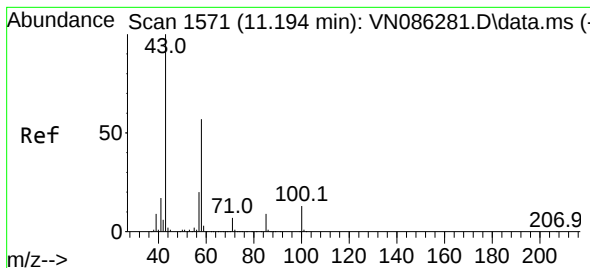
Tgt Ion: 75 Resp: 29272
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 26.1 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.518 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086511.D
 Acq: 06 May 2025 13:46

Tgt Ion: 76 Resp: 2049
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

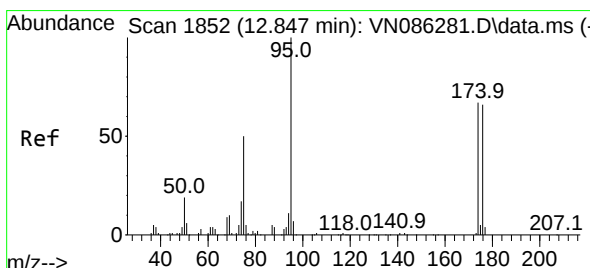
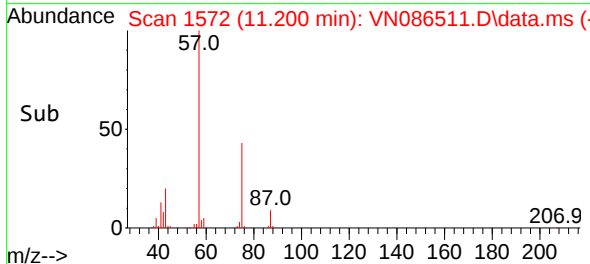
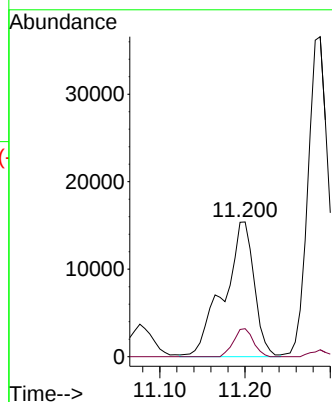
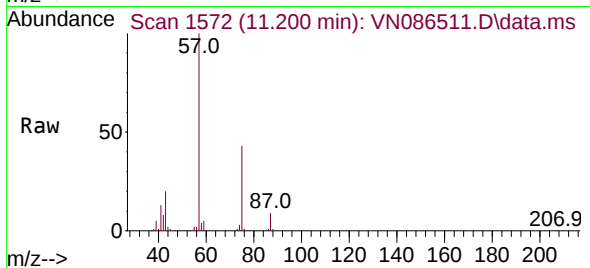




#59
2-Hexanone
Concen: 15.462 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

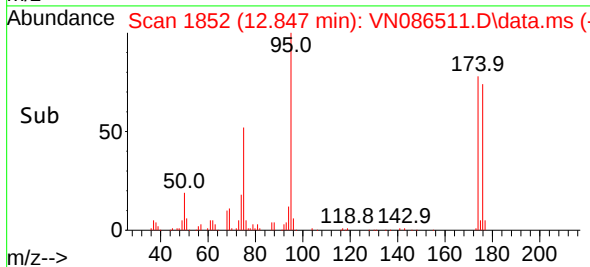
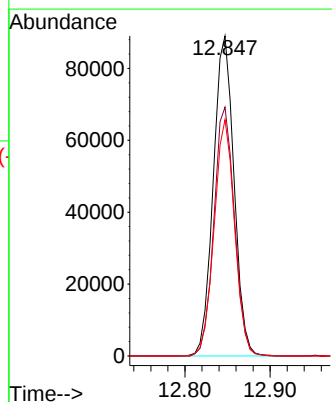
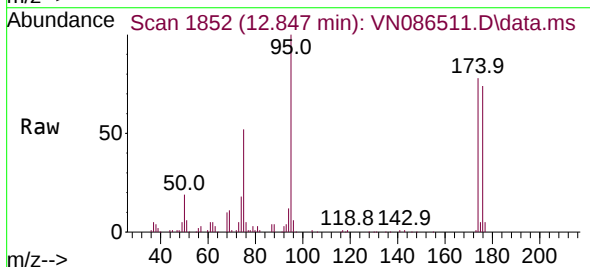
Instrument :
MSVOA_N
ClientSampleId :
MH-KK

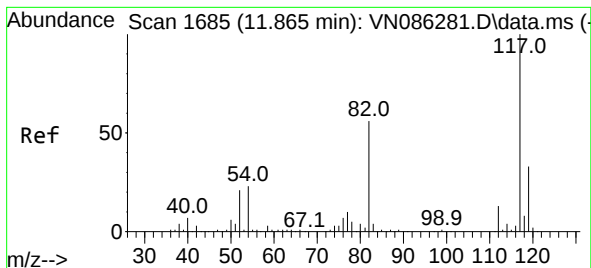
Tgt Ion: 43 Resp: 38328
Ion Ratio Lower Upper
43 100
58 13.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.602 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086511.D
Acq: 06 May 2025 13:46

Tgt Ion: 95 Resp: 150069
Ion Ratio Lower Upper
95 100
174 77.3 0.0 133.4
176 72.9 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-KK

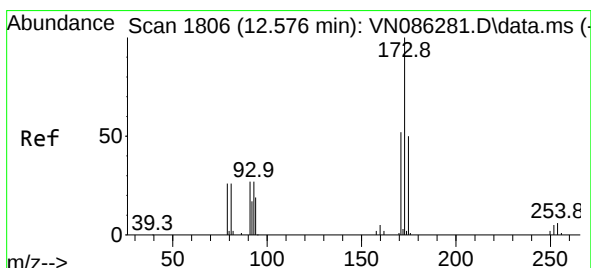
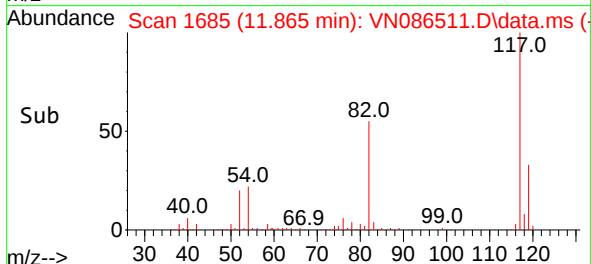
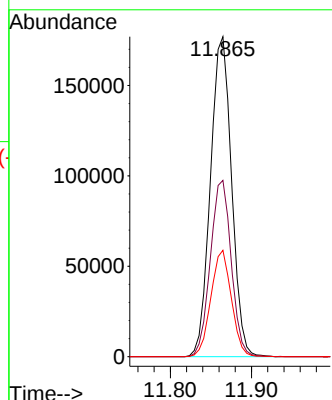
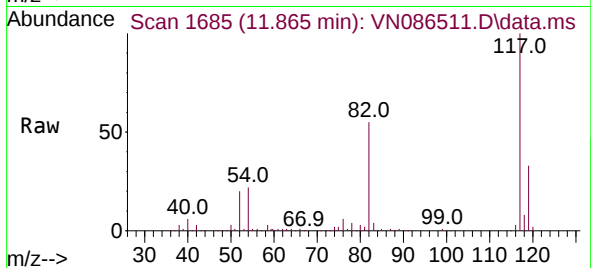
Tgt Ion:117 Resp: 320097

Ion Ratio Lower Upper

117 100

82 55.1 44.7 67.1

119 33.3 26.4 39.6



#71

Bromoform

Concen: 0.343 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

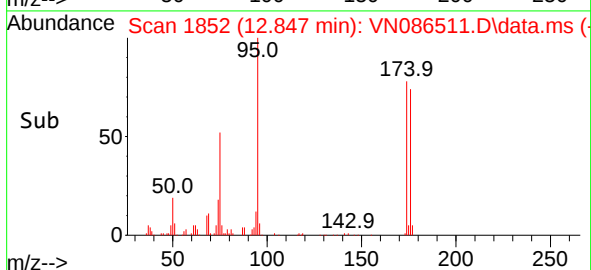
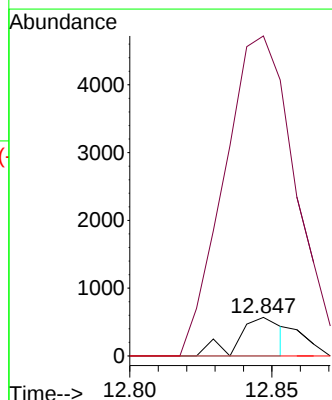
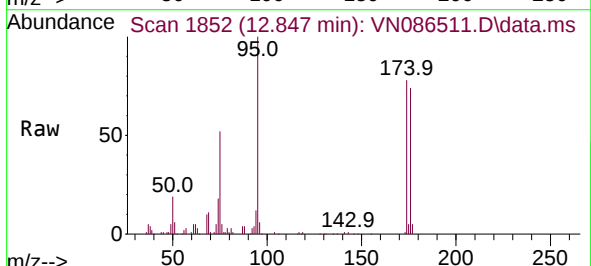
Tgt Ion:173 Resp: 608

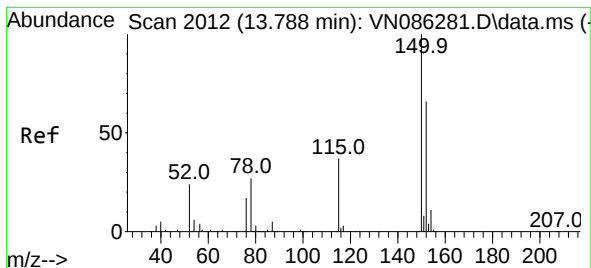
Ion Ratio Lower Upper

173 100

175 1102.8 24.6 73.6#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086511.D

Acq: 06 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

MH-KK

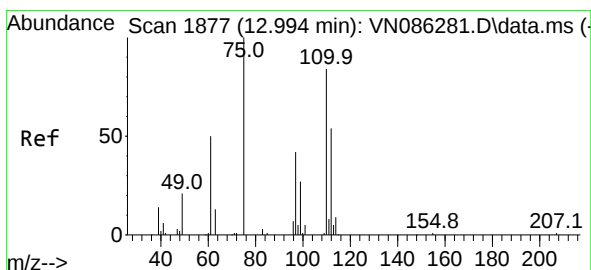
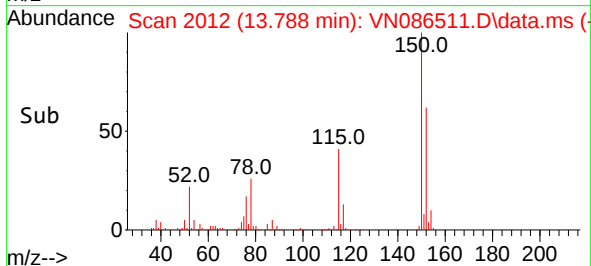
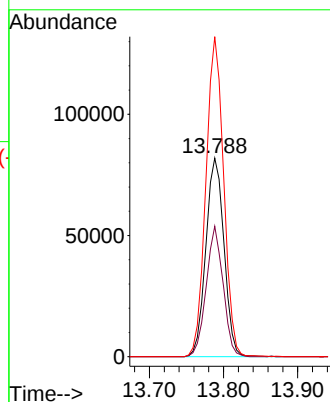
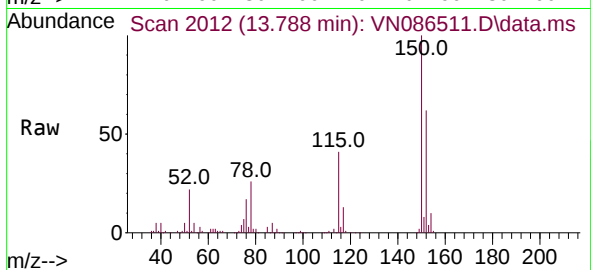
Tgt Ion:152 Resp: 139385

Ion Ratio Lower Upper

152 100

115 61.1 31.9 95.9

150 157.6 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 23.475 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086511.D

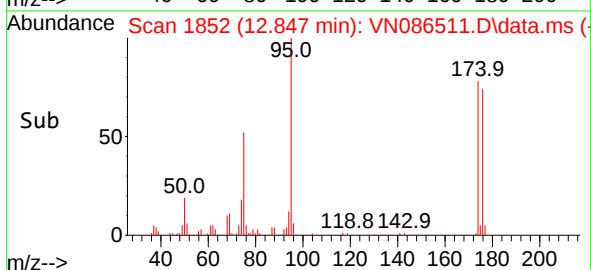
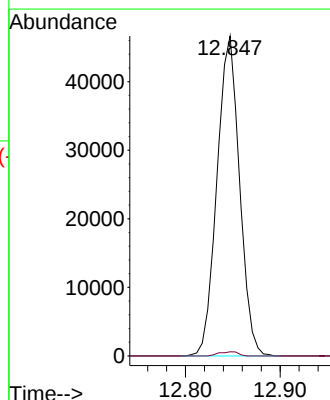
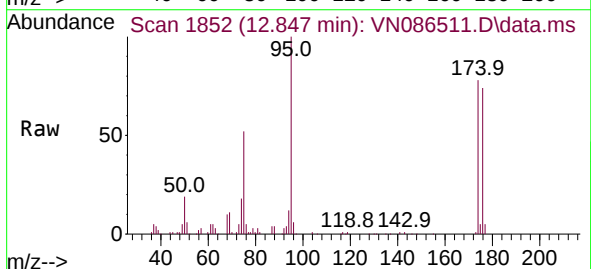
Acq: 06 May 2025 13:46

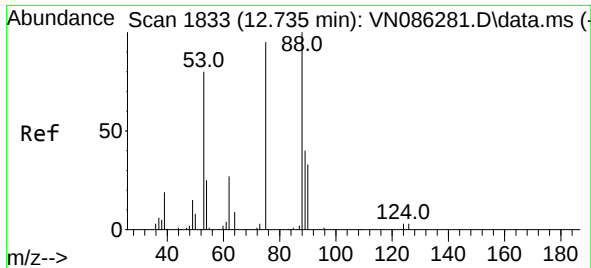
Tgt Ion: 75 Resp: 77215

Ion Ratio Lower Upper

75 100

77 1.1 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.378 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086511.D
 Acq: 06 May 2025 13:46

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-KK

Tgt Ion: 75 Resp: 77215
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.1 35.7 53.5#

