

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
 Data File : VN087567.D
 Acq On : 14 Aug 2025 15:42
 Operator : JC\MD
 Sample : Q2842-02 40X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 19:59:36 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)

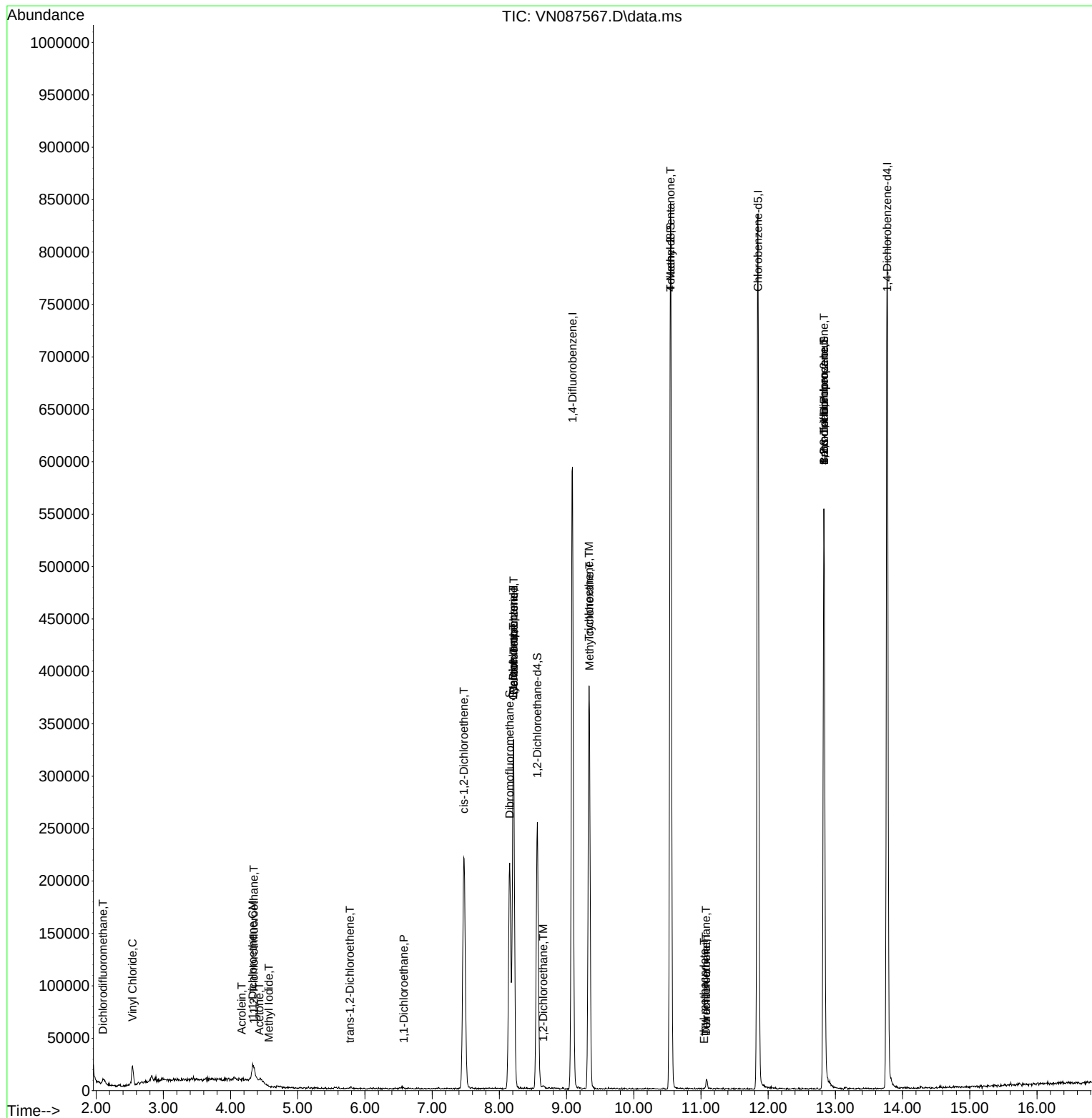
Internal Standards						
1) Pentafluorobenzene	8.212	168	218605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	486591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	438933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	211146	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	211465	57.010	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.020%
35) Dibromofluoromethane	8.153	113	151404	45.108	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.220%
50) Toluene-d8	10.547	98	550924	46.014	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.020%
62) 4-Bromofluorobenzene	12.829	95	199247	45.043	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.080%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.101	85	621	0.267	ug/l #	39
4) Vinyl Chloride	2.542	62	17532	6.042	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.347	101	725	0.329	ug/l #	55
10) Methyl Iodide	4.571	142	81	5.663	ug/l #	40
12) 1,1-Dichloroethene	4.330	96	8400	3.365	ug/l	94
13) Acrolein	4.165	56	348	0.616	ug/l #	1
16) Acetone	4.430	43	1102	0.634	ug/l	99
20) Methylene Chloride	5.259	84	213	Below Cal	#	4
21) trans-1,2-Dichloroethene	5.777	96	720	0.256	ug/l	87
24) 1,1-Dichloroethane	6.577	63	2759	0.505	ug/l #	83
27) cis-1,2-Dichloroethene	7.471	96	128340	39.610	ug/l	94
31) Cyclohexane	8.206	56	7239	1.587	ug/l #	45
36) 1,1-Dichloropropene	8.206	75	22466	5.066	ug/l #	47
38) Carbon Tetrachloride	8.212	117	28123	5.757	ug/l #	13
39) Methylcyclohexane	9.341	83	2244	0.467	ug/l #	1
42) 1,2-Dichloroethane	8.653	62	2010	0.370	ug/l	85
44) Trichloroethene	9.335	130	129163	38.140	ug/l	94
51) 4-Methyl-2-Pentanone	10.547	43	3621	0.576	ug/l #	1
56) Ethyl methacrylate	11.047	69	71	0.647	ug/l #	51
60) Dibromochloromethane	11.076	129	1574	0.391	ug/l #	10
64) Tetrachloroethene	11.076	164	1746	0.618	ug/l #	78
71) Bromoform	12.829	173	1171	0.433	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	113864	24.048	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	113864	65.800	ug/l #	8

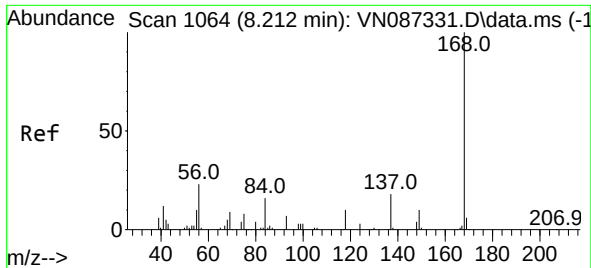
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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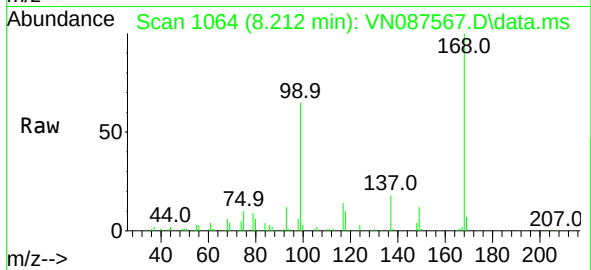
Quant Time: Aug 14 19:59:36 2025
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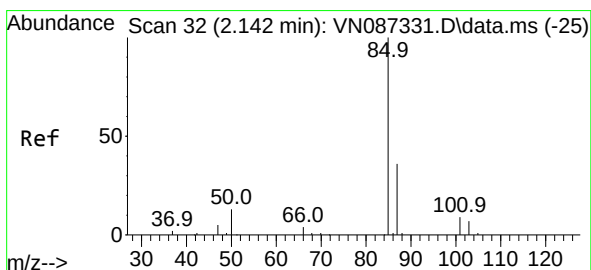
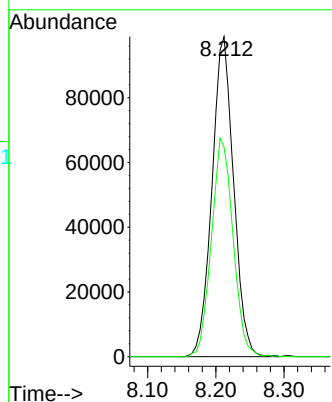
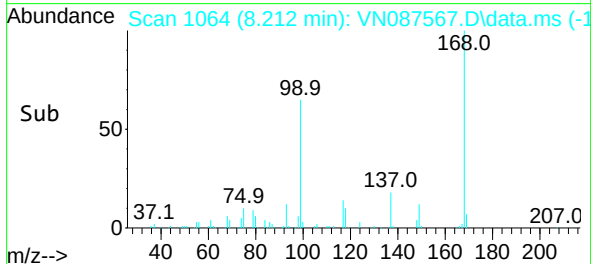


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Instrument :
MSVOA_N
ClientSampleId :

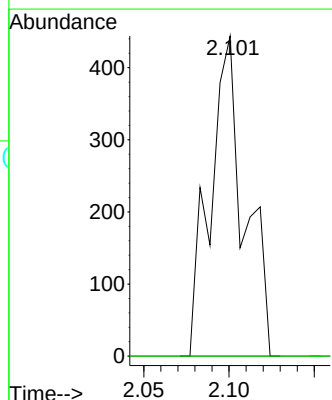
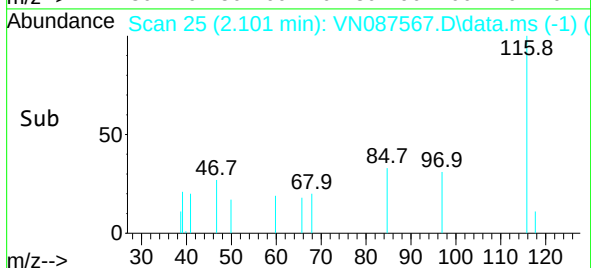
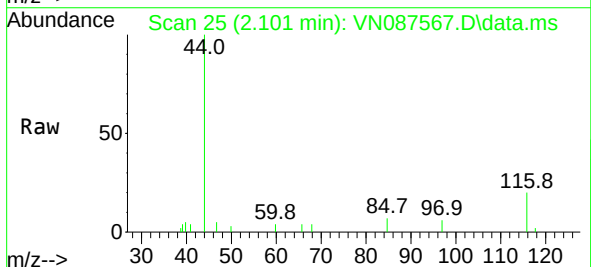


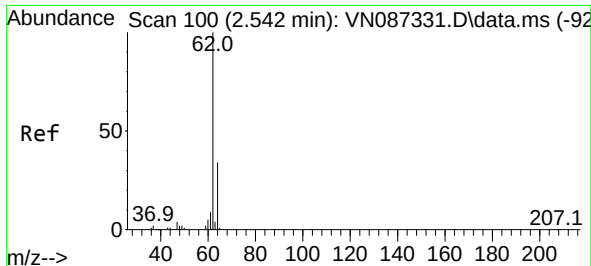
Tgt Ion:168 Resp: 218605
Ion Ratio Lower Upper
168 100
99 65.5 47.9 71.9



#2
Dichlorodifluoromethane
Concen: 0.267 ug/l
RT: 2.101 min Scan# 25
Delta R.T. -0.041 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

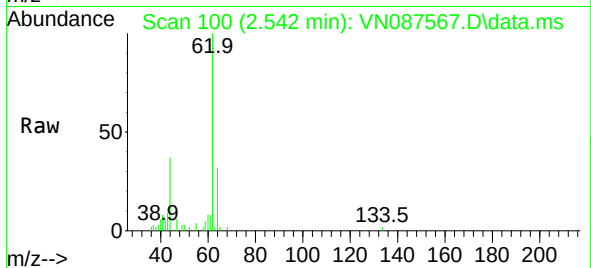
Tgt Ion: 85 Resp: 621
Ion Ratio Lower Upper
85 100
87 0.0 17.8 53.3#



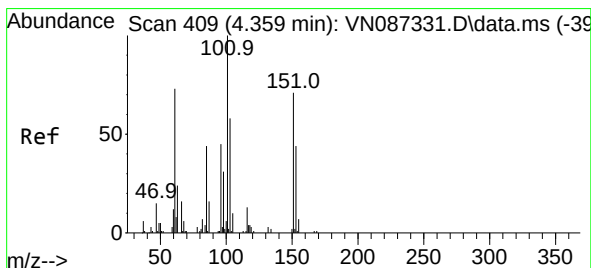
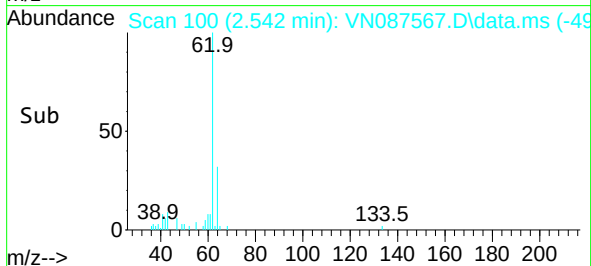
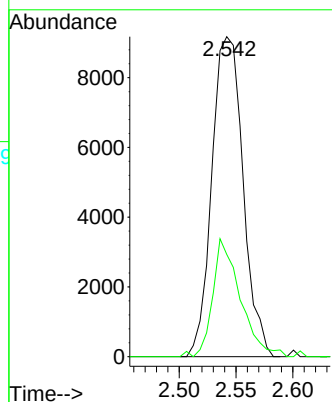


#4
 Vinyl Chloride
 Concen: 6.042 ug/l
 RT: 2.542 min Scan# 10
 Delta R.T. 0.000 min
 Lab File: VN087567.D
 Acq: 14 Aug 2025 15:42

Instrument :
 MSVOA_N
 ClientSampleId :

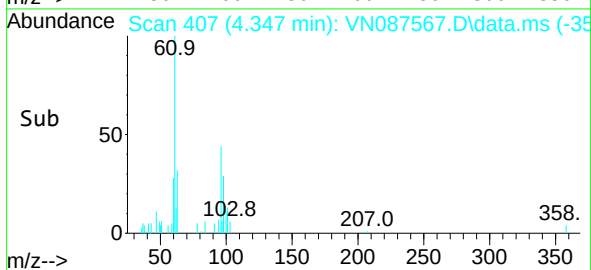
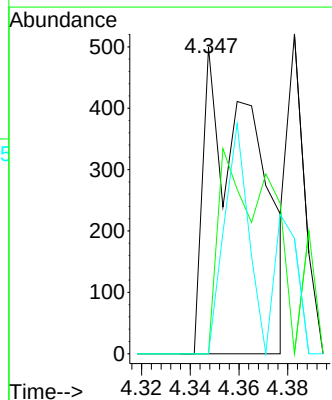
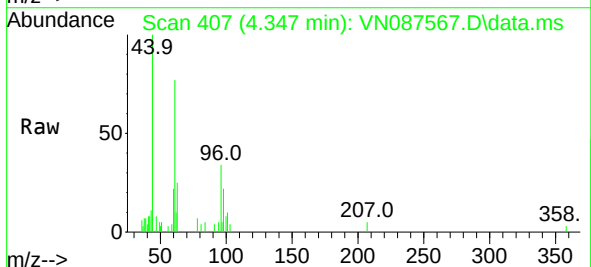


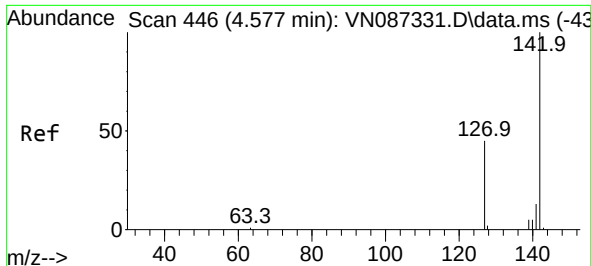
Tgt Ion: 62 Resp: 17532
 Ion Ratio Lower Upper
 62 100
 64 31.9 27.0 40.6



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.329 ug/l
 RT: 4.347 min Scan# 407
 Delta R.T. -0.012 min
 Lab File: VN087567.D
 Acq: 14 Aug 2025 15:42

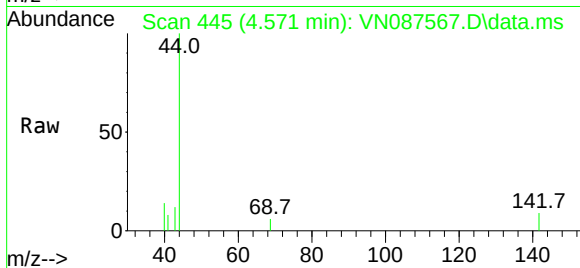
Tgt Ion: 101 Resp: 725
 Ion Ratio Lower Upper
 101 100
 85 75.7 37.3 55.9#
 151 35.6 58.9 88.3#



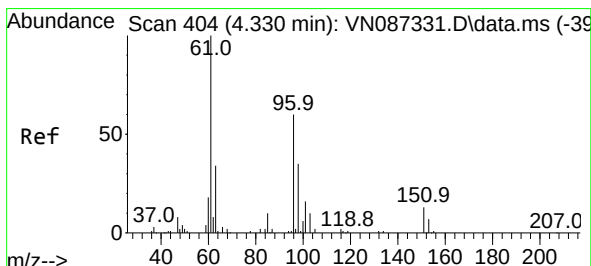
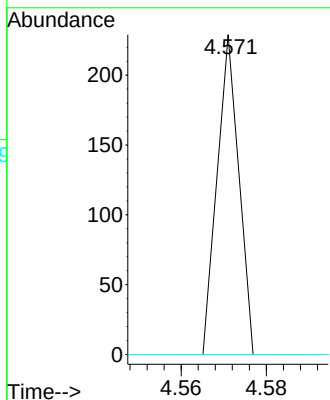
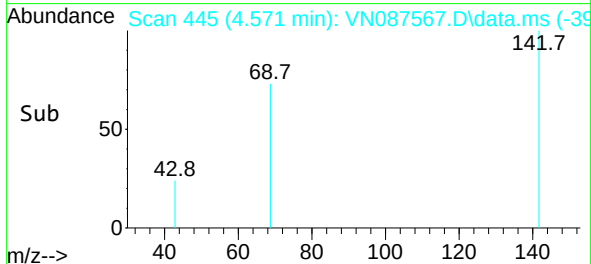


#10
Methyl Iodide
Concen: 5.663 ug/l
RT: 4.571 min Scan# 446
Delta R.T. -0.006 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

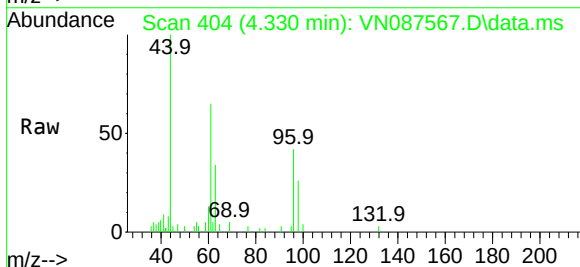
Instrument :
MSVOA_N
ClientSampleId :



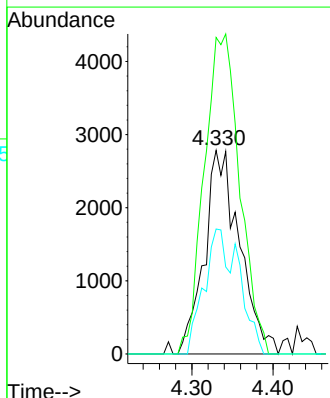
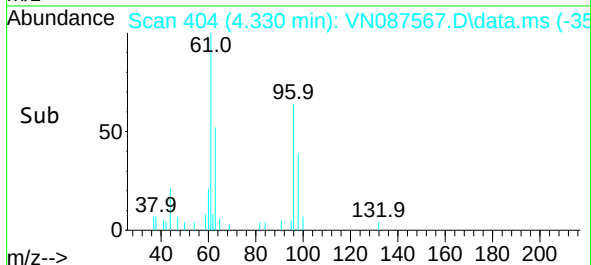
Tgt Ion:142 Resp: 81
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#

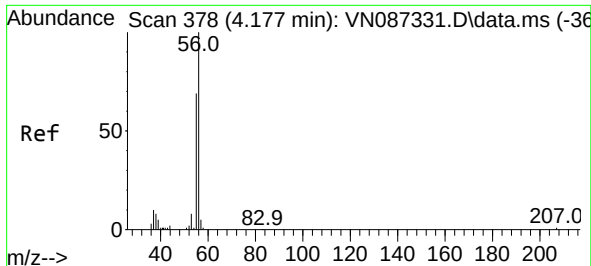


#12
1,1-Dichloroethene
Concen: 3.365 ug/l
RT: 4.330 min Scan# 404
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42



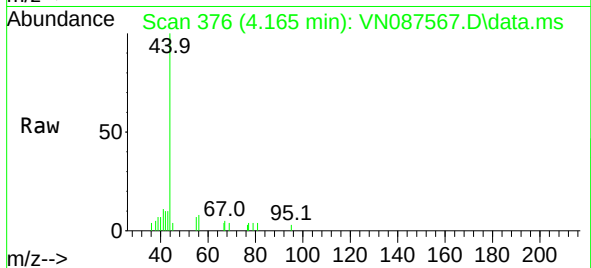
Tgt Ion: 96 Resp: 8400
Ion Ratio Lower Upper
96 100
61 155.5 132.3 198.5
98 61.4 46.8 70.2



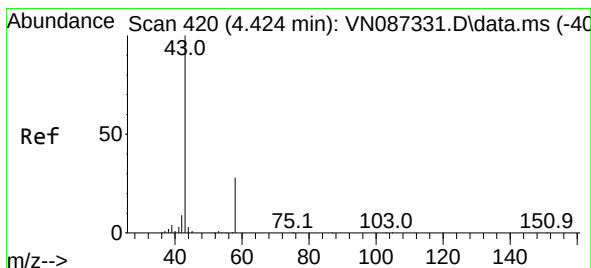
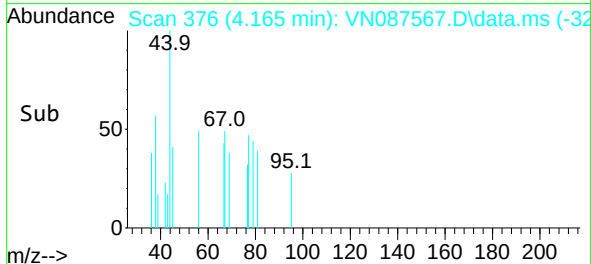
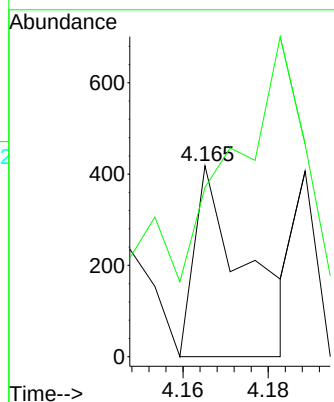


#13
Acrolein
Concen: 0.616 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Instrument :
MSVOA_N
ClientSampleId :

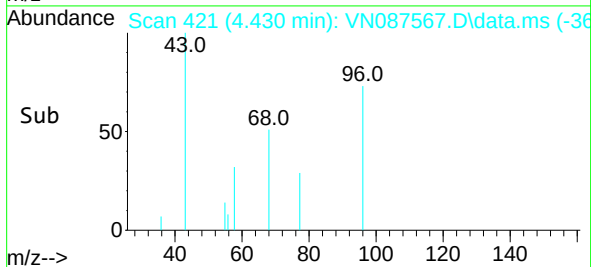
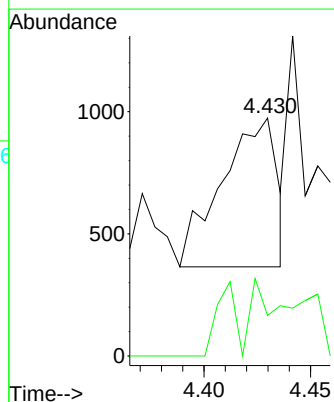
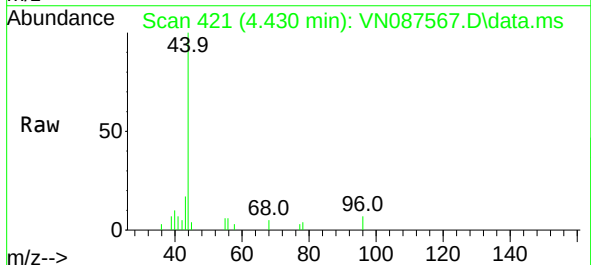


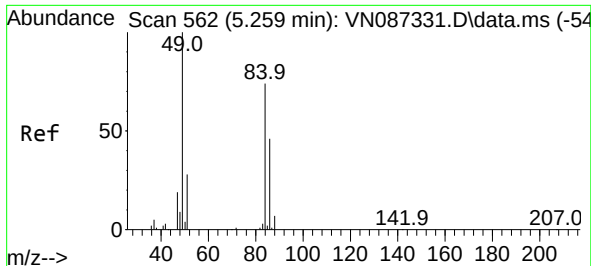
Tgt Ion: 56 Resp: 348
Ion Ratio Lower Upper
56 100
55 333.3 56.2 84.4#



#16
Acetone
Concen: 0.634 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 43 Resp: 1102
Ion Ratio Lower Upper
43 100
58 27.3 22.3 33.5





#20

Methylene Chloride

Concen: Below Cal

RT: 5.259 min Scan# 5

Delta R.T. 0.000 min

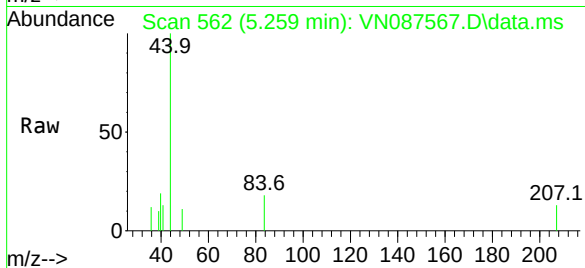
Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 213

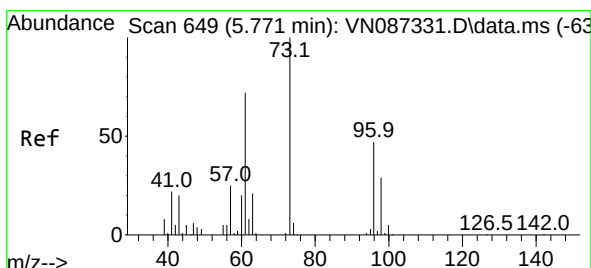
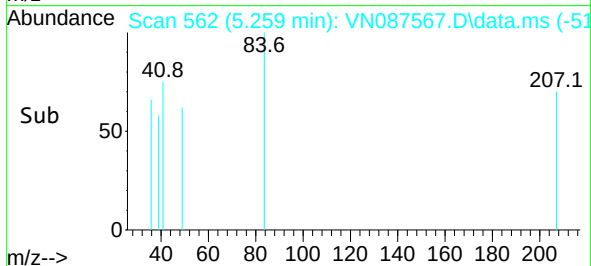
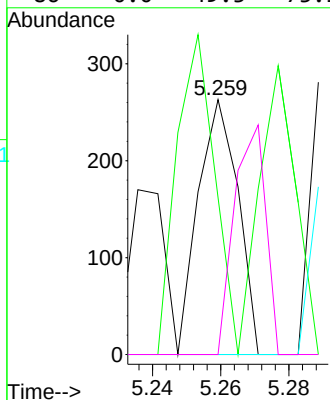
Ion Ratio Lower Upper

84 100

49 0.0 107.5 161.3#

51 0.0 30.2 45.2#

86 0.0 49.3 73.9#



#21

trans-1,2-Dichloroethene

Concen: 0.256 ug/l

RT: 5.777 min Scan# 650

Delta R.T. 0.006 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

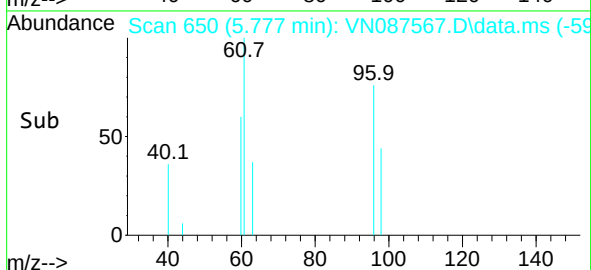
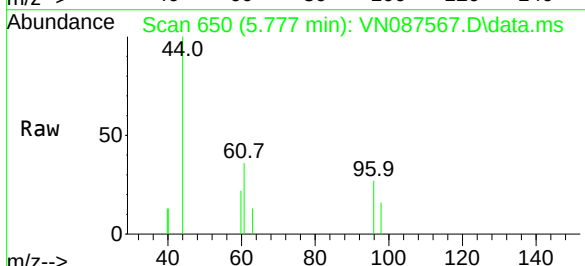
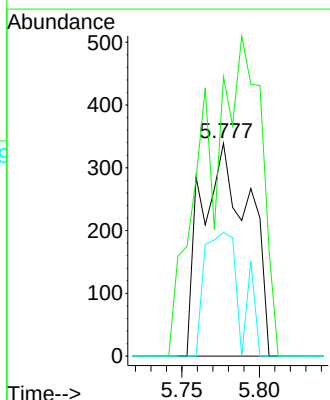
Tgt Ion: 96 Resp: 720

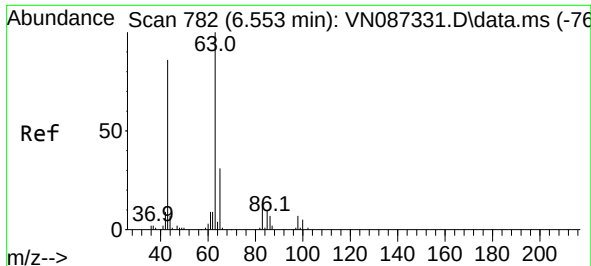
Ion Ratio Lower Upper

96 100

61 131.3 122.0 183.0

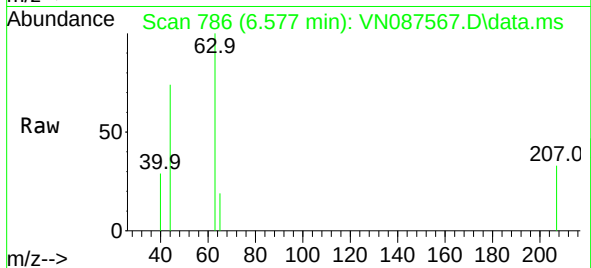
98 58.1 50.0 75.0



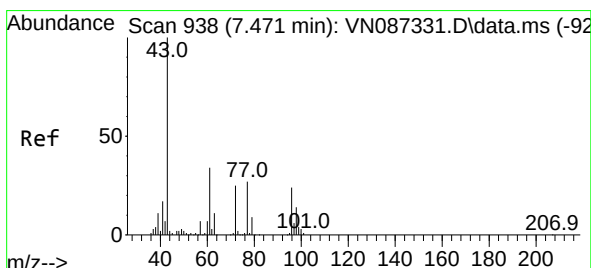
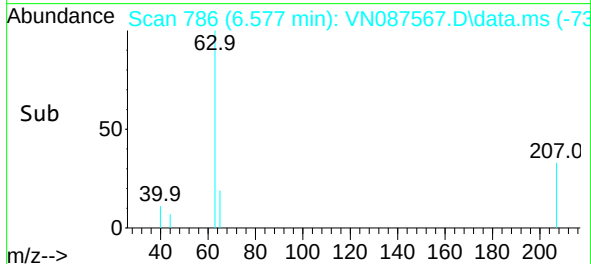
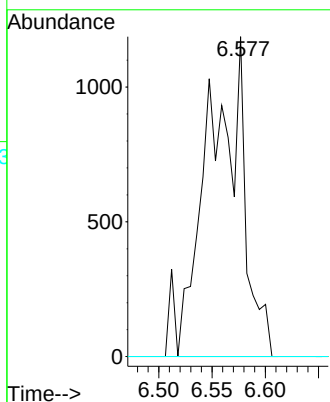


#24
1,1-Dichloroethane
Concen: 0.505 ug/l
RT: 6.577 min Scan# 71
Delta R.T. 0.024 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Instrument :
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ClientSampleId :

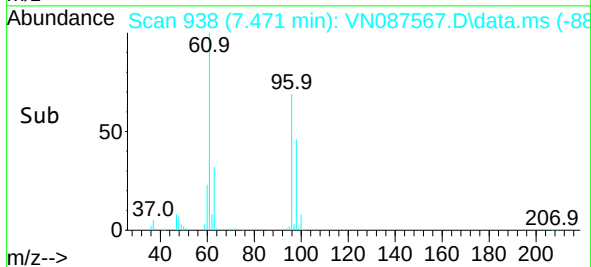
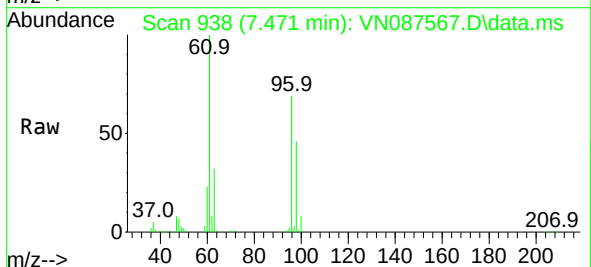
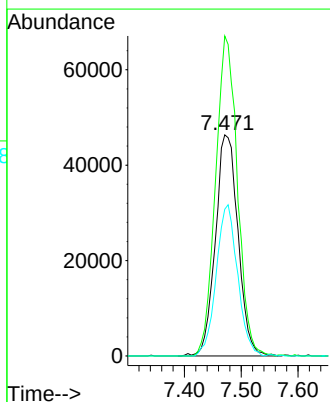


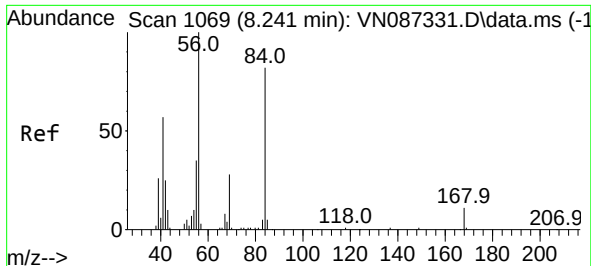
Tgt Ion: 63 Resp: 2759
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.5 7.4#



#27
cis-1,2-Dichloroethene
Concen: 39.610 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

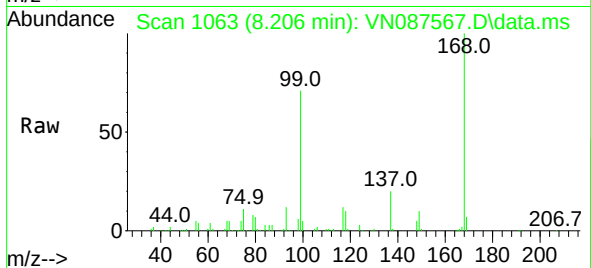
Tgt Ion: 96 Resp: 128340
Ion Ratio Lower Upper
96 100
61 139.9 0.0 297.8
98 64.5 0.0 132.4



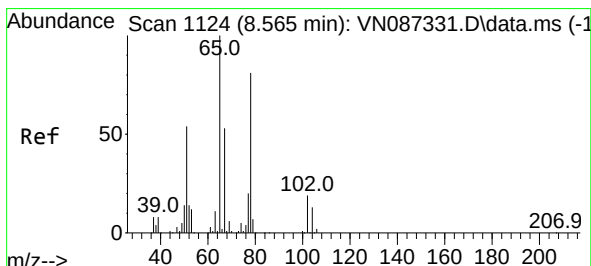
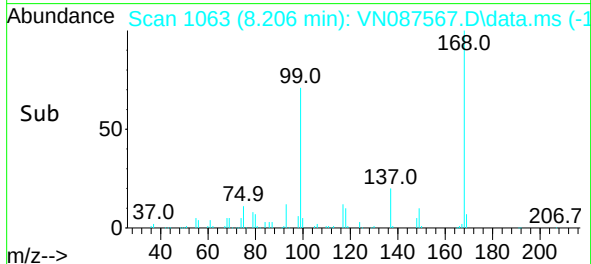
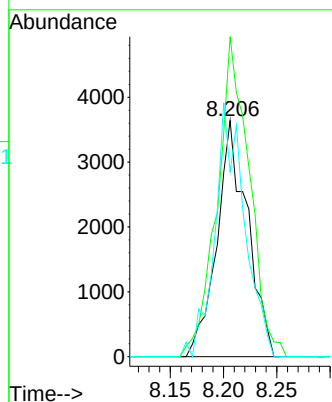


#31
Cyclohexane
Concen: 1.587 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Instrument :
MSVOA_N
ClientSampleId :

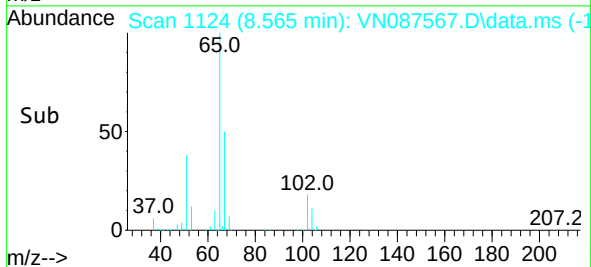
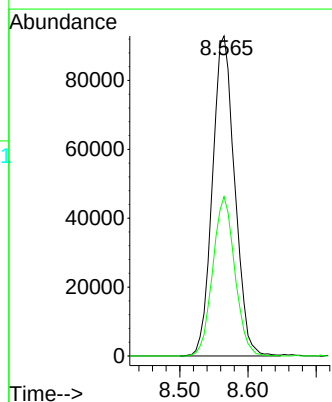
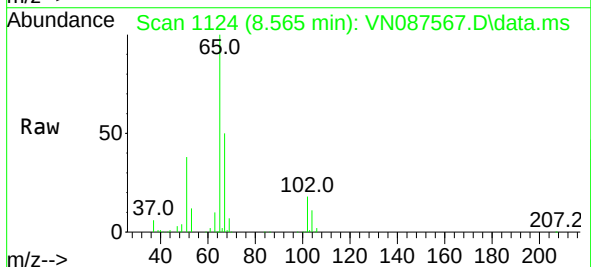


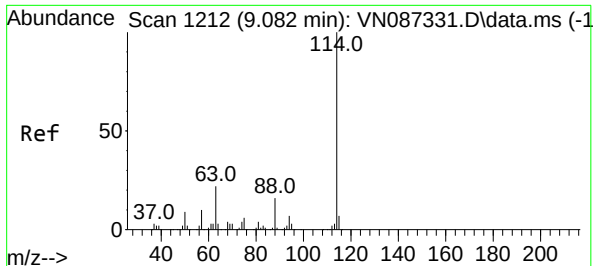
Tgt Ion: 56 Resp: 7239
Ion Ratio Lower Upper
56 100
69 135.5 22.7 34.1#
84 78.3 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 57.010 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 65 Resp: 211465
Ion Ratio Lower Upper
65 100
67 49.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

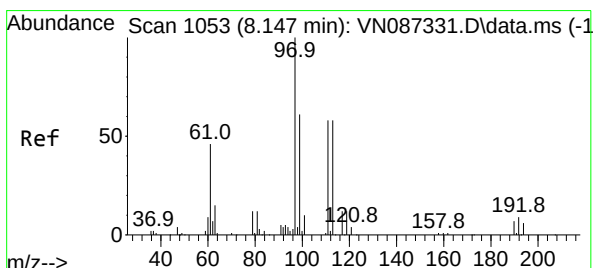
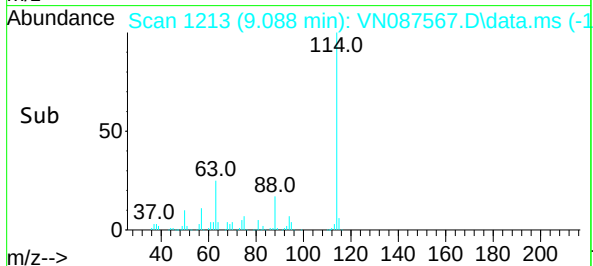
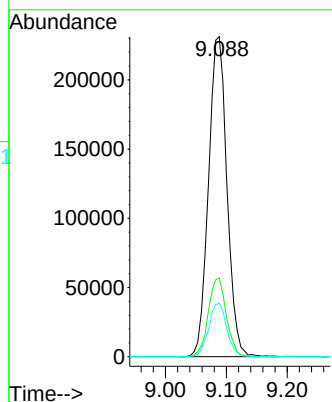
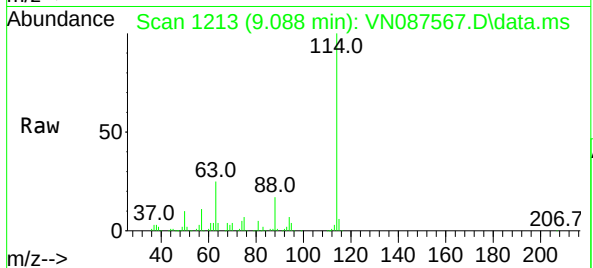
Tgt Ion:114 Resp: 486591

Ion Ratio Lower Upper

114 100

63 24.5 0.0 44.6

88 16.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 45.108 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

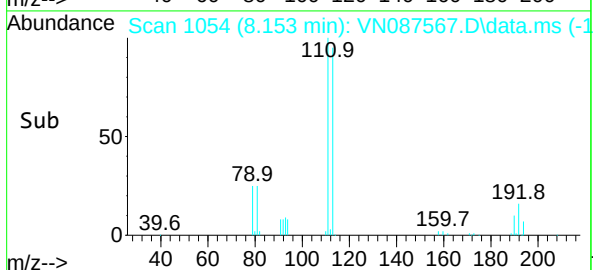
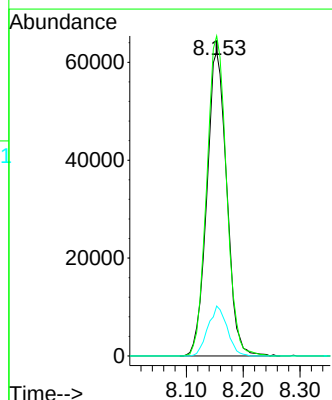
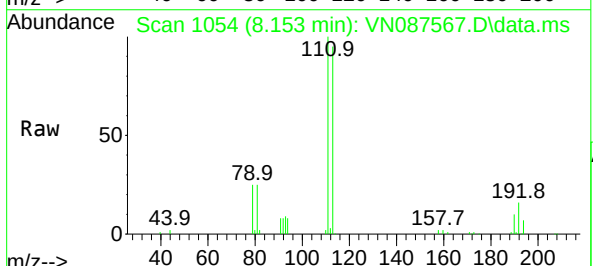
Tgt Ion:113 Resp: 151404

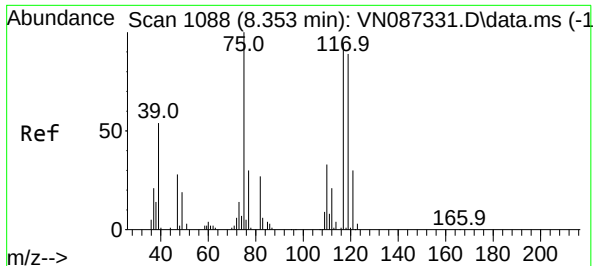
Ion Ratio Lower Upper

113 100

111 104.3 82.5 123.7

192 15.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.066 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087567.D

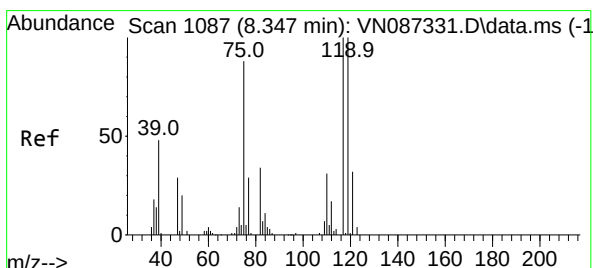
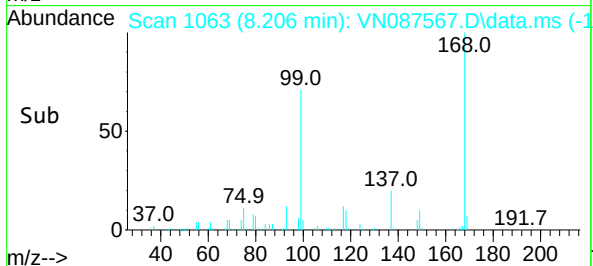
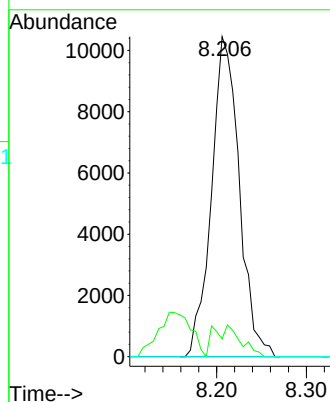
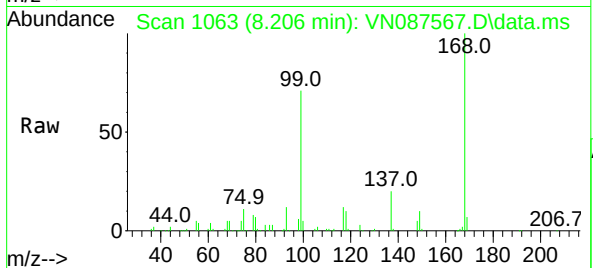
Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	22466
Ion	Ratio	Lower	Upper
75	100		
110	5.7	16.7	50.1#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 5.757 ug/l

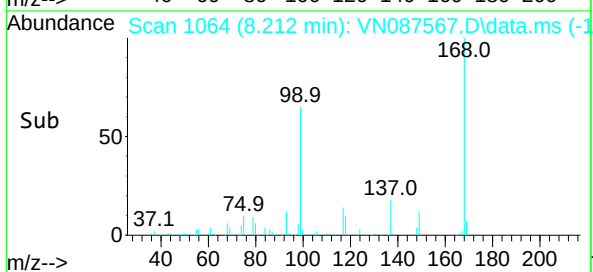
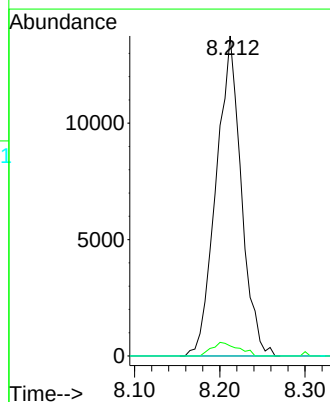
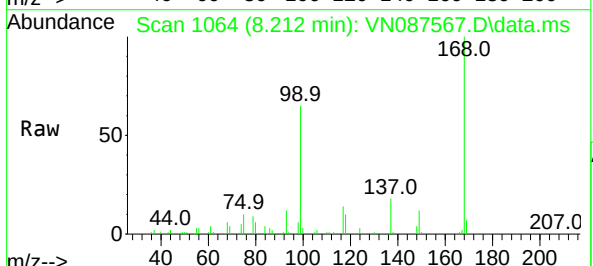
RT: 8.212 min Scan# 1064

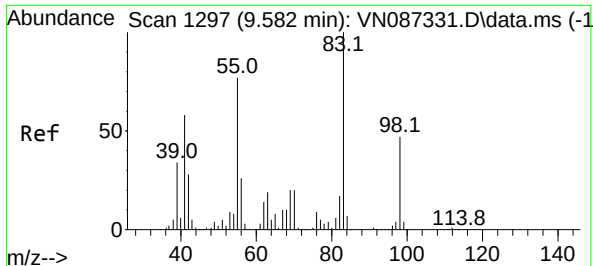
Delta R.T. -0.135 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Tgt Ion:	117	Resp:	28123
Ion	Ratio	Lower	Upper
117	100		
119	3.2	80.2	120.2#
121	0.0	25.4	38.2#





#39

Methylcyclohexane

Concen: 0.467 ug/l

RT: 9.341 min Scan# 11

Delta R.T. -0.241 min

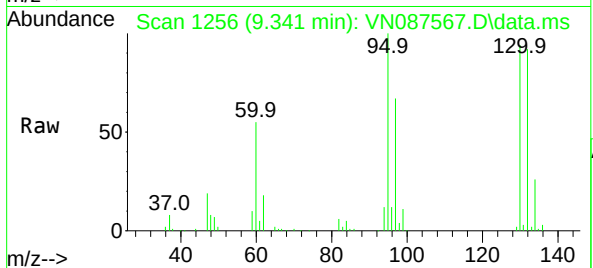
Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

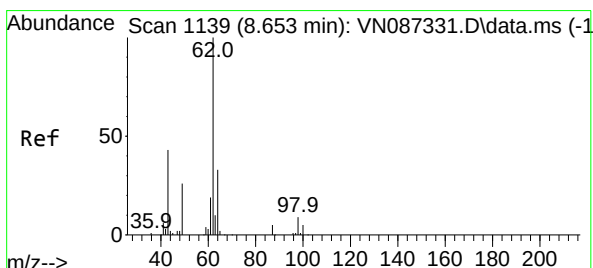
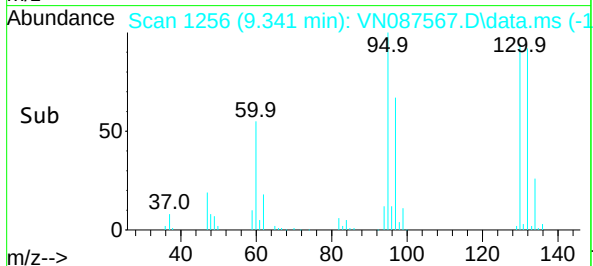
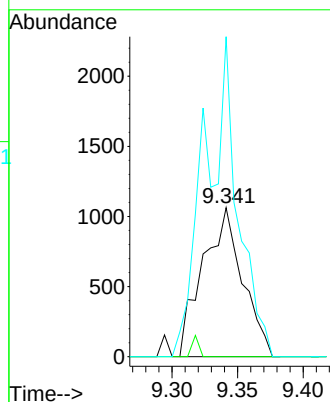
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	83	Resp:	2244
Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.3	91.9#
98	214.9	37.9	56.9#



#42

1,2-Dichloroethane

Concen: 0.370 ug/l

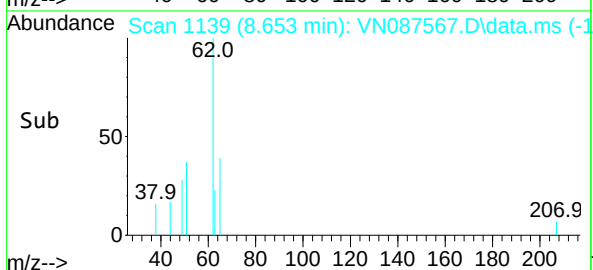
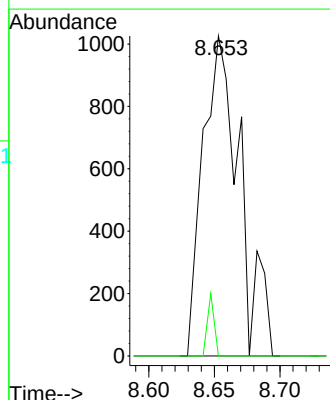
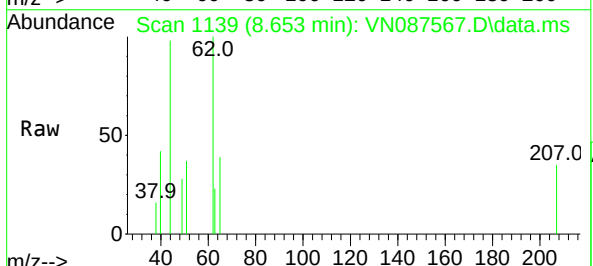
RT: 8.653 min Scan# 1139

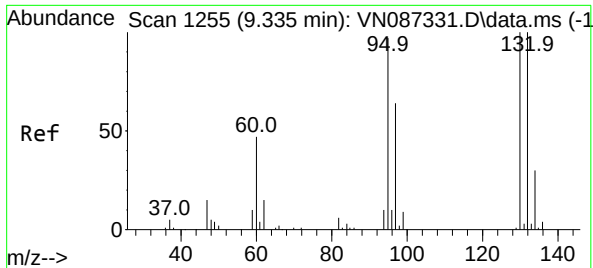
Delta R.T. 0.000 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Tgt Ion:	62	Resp:	2010
Ion	Ratio	Lower	Upper
62	100		
98	3.5	0.0	18.0

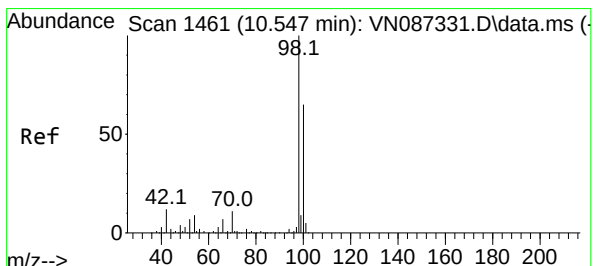
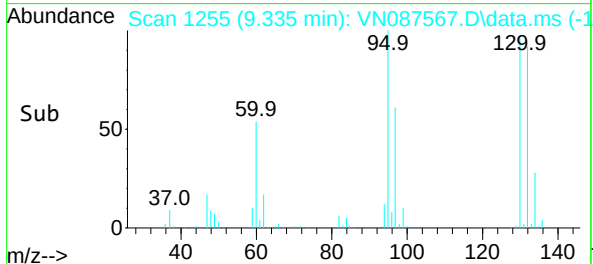
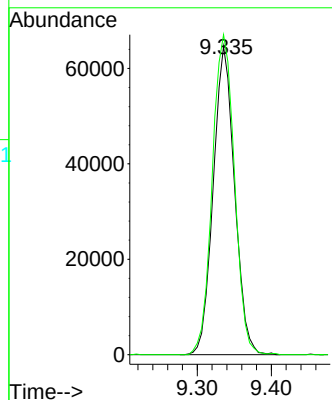
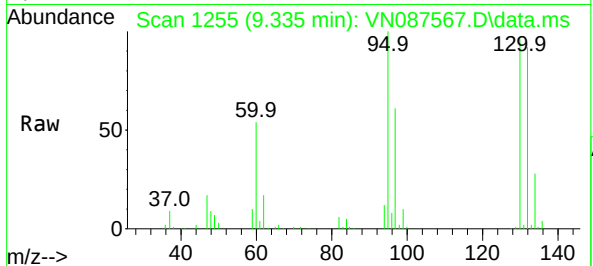




#44
 Trichloroethene
 Concen: 38.140 ug/l
 RT: 9.335 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN087567.D
 Acq: 14 Aug 2025 15:42

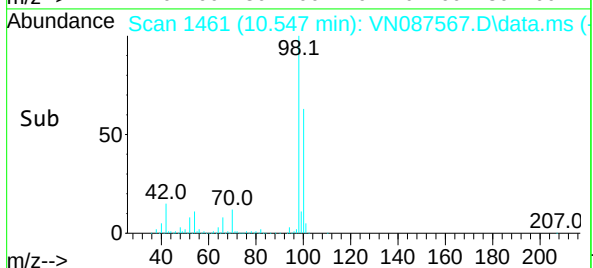
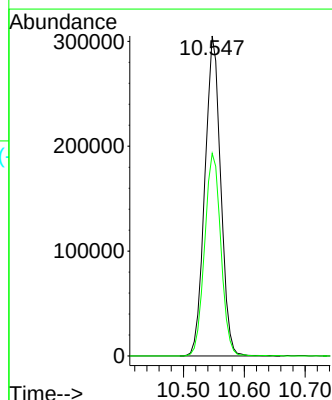
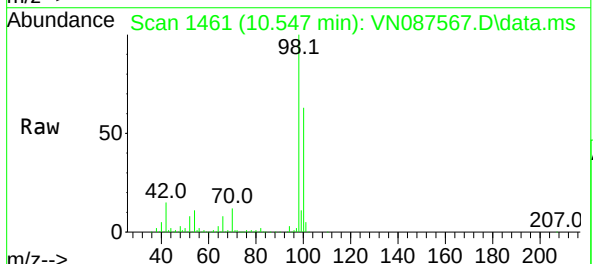
Instrument :
 MSVOA_N
 ClientSampleId :

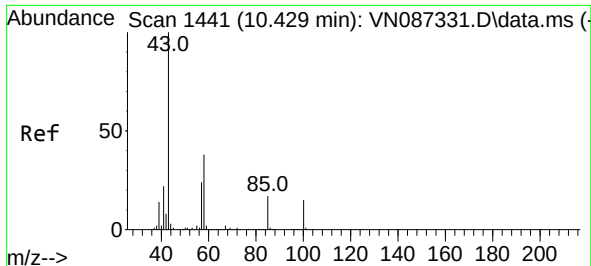
Tgt Ion:130 Resp: 129163
 Ion Ratio Lower Upper
 130 100
 95 103.7 0.0 195.2



#50
 Toluene-d8
 Concen: 46.014 ug/l
 RT: 10.547 min Scan# 1461
 Delta R.T. 0.000 min
 Lab File: VN087567.D
 Acq: 14 Aug 2025 15:42

Tgt Ion: 98 Resp: 550924
 Ion Ratio Lower Upper
 98 100
 100 64.8 52.1 78.1

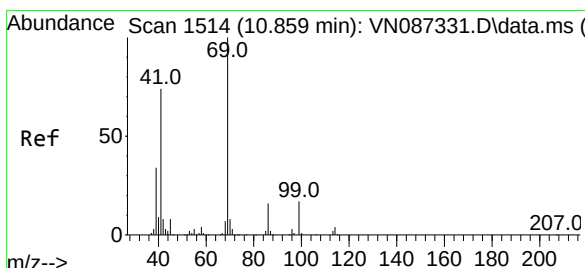
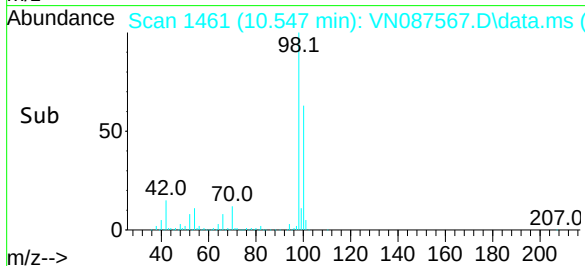
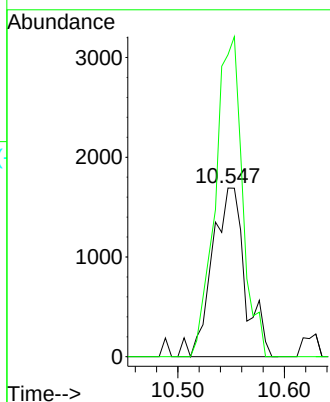
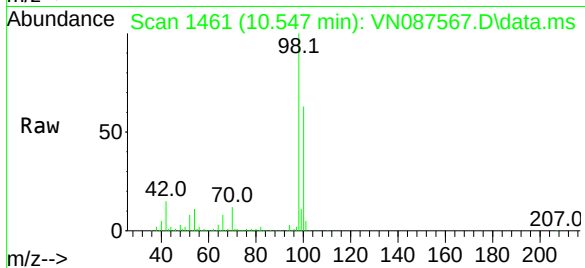




#51
4-Methyl-2-Pentanone
Concen: 0.576 ug/l
RT: 10.547 min Scan# 1441
Delta R.T. 0.118 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

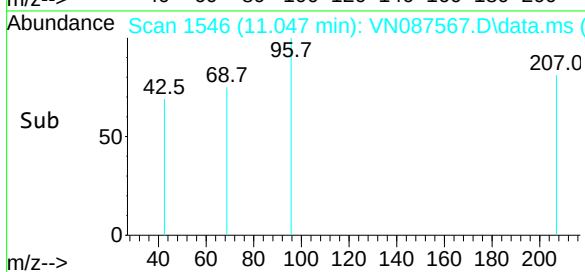
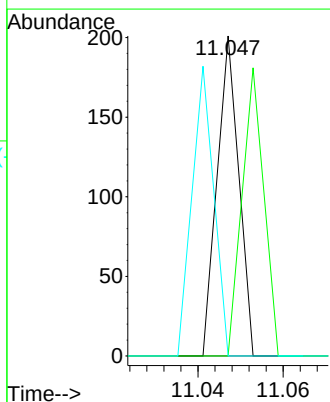
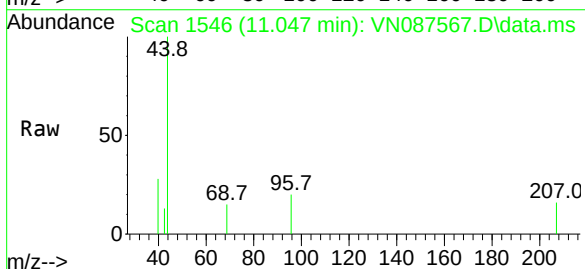
Instrument :
MSVOA_N
ClientSampleId :

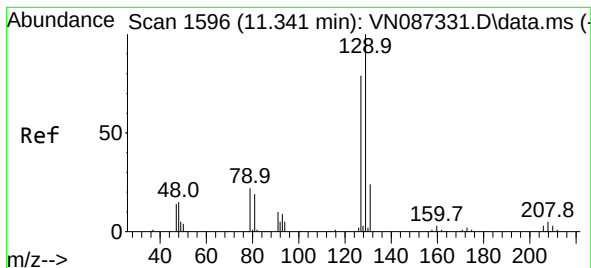
Tgt Ion: 43 Resp: 3621
Ion Ratio Lower Upper
43 100
58 157.1 30.8 46.2#



#56
Ethyl methacrylate
Concen: 0.647 ug/l
RT: 11.047 min Scan# 1546
Delta R.T. 0.188 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 69 Resp: 71
Ion Ratio Lower Upper
69 100
41 90.1 55.1 82.7#
39 90.1 27.9 41.9#





#60

Dibromochloromethane

Concen: 0.391 ug/l

RT: 11.076 min Scan# 11

Delta R.T. -0.265 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

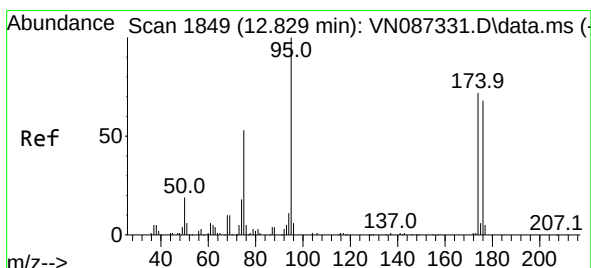
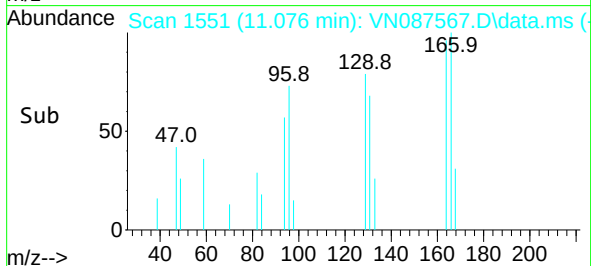
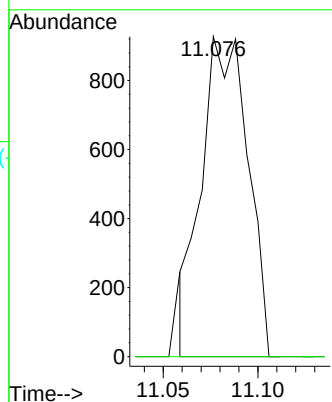
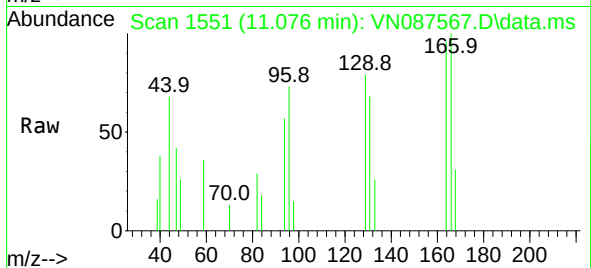
ClientSampleId :

Tgt Ion:129 Resp: 1574

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.5#



#62

4-Bromofluorobenzene

Concen: 45.043 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

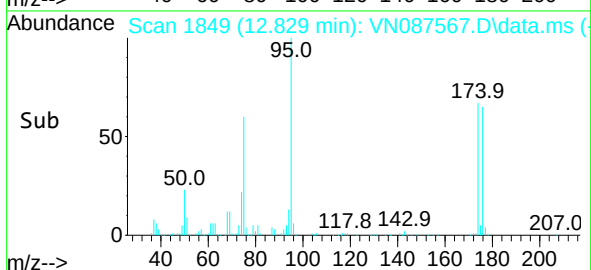
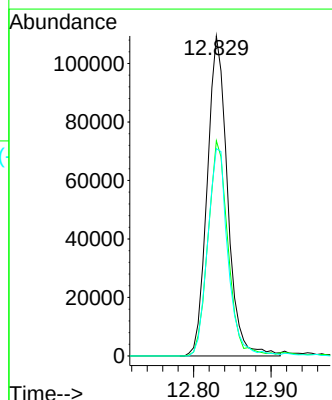
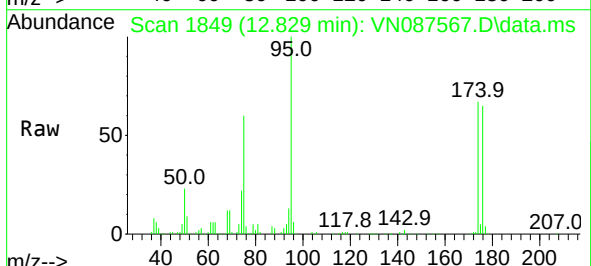
Tgt Ion: 95 Resp: 199247

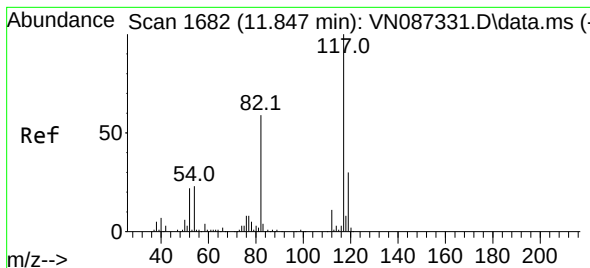
Ion Ratio Lower Upper

95 100

174 66.4 0.0 149.4

176 64.9 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

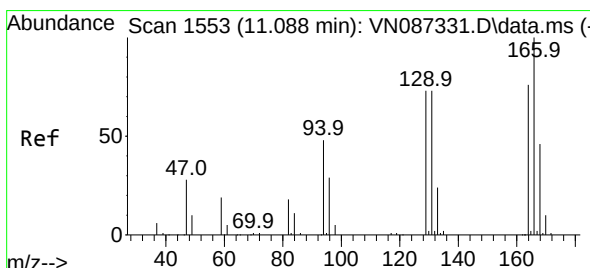
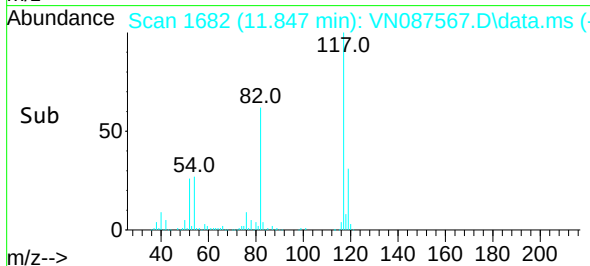
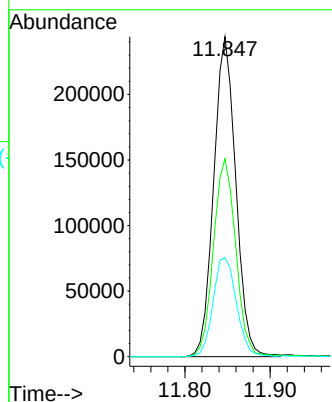
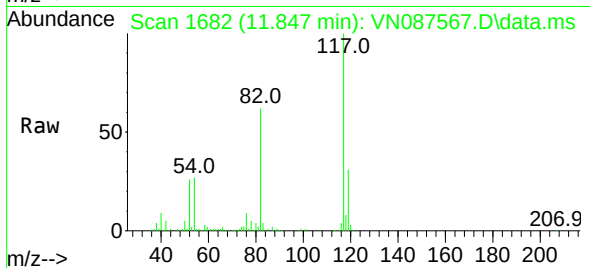
Tgt Ion:117 Resp: 438933

Ion Ratio Lower Upper

117 100

82 61.8 47.4 71.2

119 31.0 23.8 35.8



#64

Tetrachloroethene

Concen: 0.618 ug/l

RT: 11.076 min Scan# 1551

Delta R.T. -0.012 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Tgt Ion:164 Resp: 1746

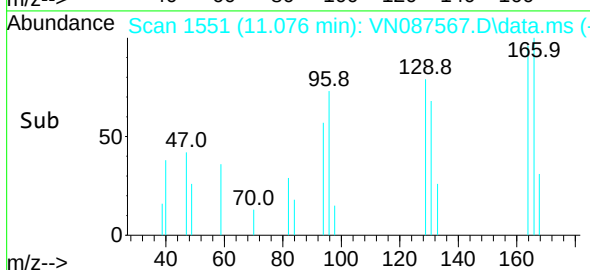
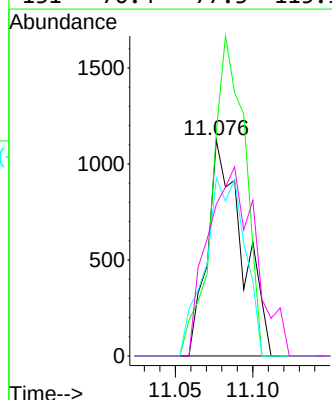
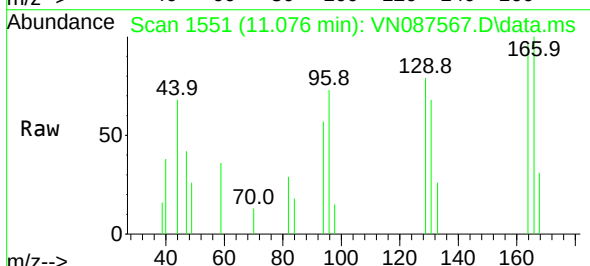
Ion Ratio Lower Upper

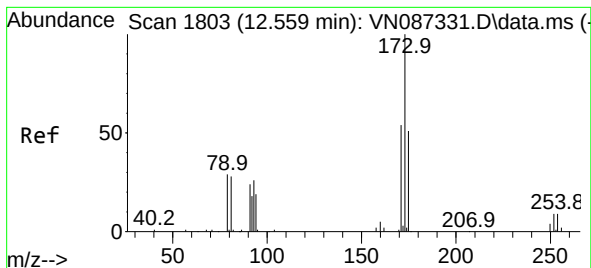
164 100

166 103.9 105.5 158.3#

129 82.5 77.4 116.2

131 70.4 77.3 115.9#





#71

Bromoform

Concen: 0.433 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

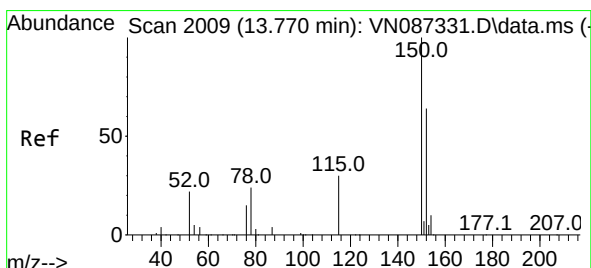
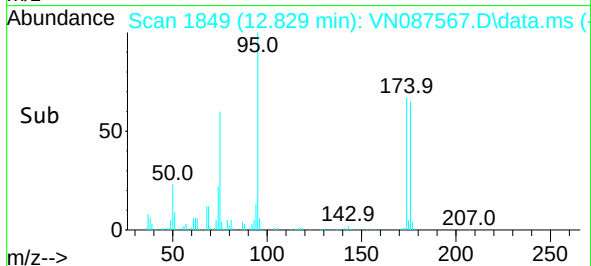
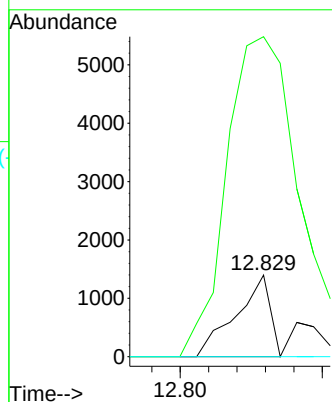
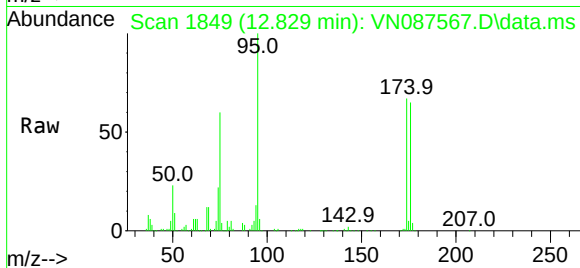
Tgt Ion:173 Resp: 1171

Ion Ratio Lower Upper

173 100

175 645.3 24.1 72.3#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087567.D

Acq: 14 Aug 2025 15:42

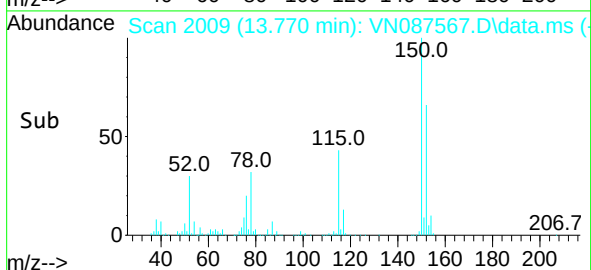
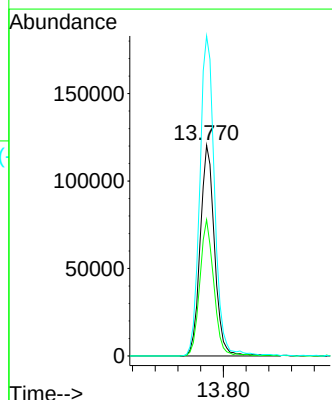
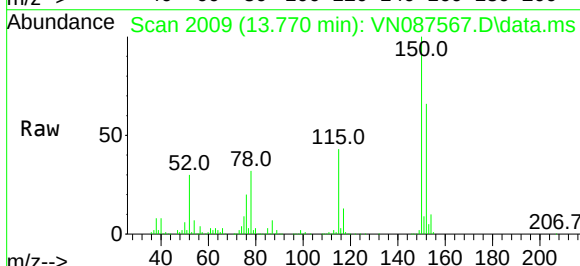
Tgt Ion:152 Resp: 211146

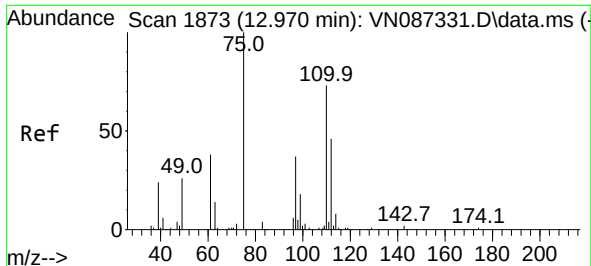
Ion Ratio Lower Upper

152 100

115 63.3 31.1 93.5

150 156.0 0.0 349.0

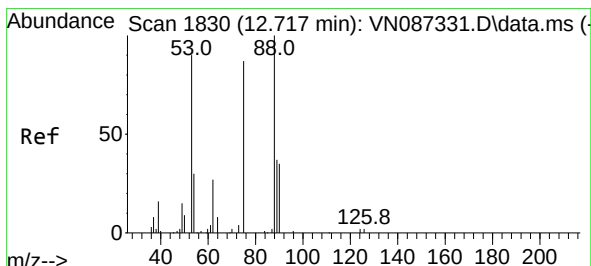
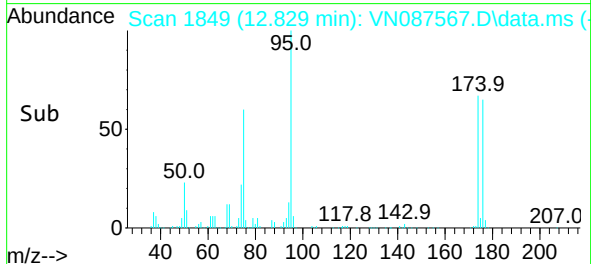
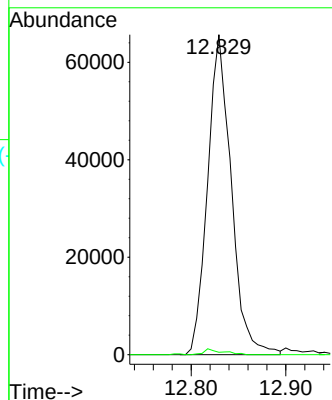
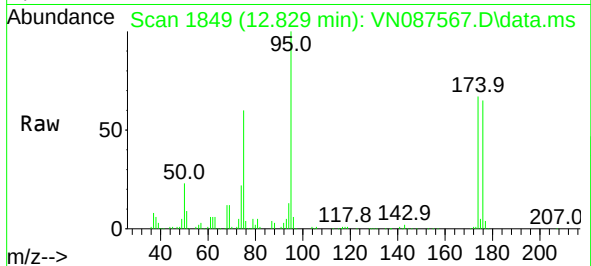




#76
1,2,3-Trichloropropane
Concen: 24.048 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 113864
Ion Ratio Lower Upper
75 100
77 1.4 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.800 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 75 Resp: 113864
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.1 38.4 57.6#

