

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088109.D
 Acq On : 27 Oct 2025 13:31
 Operator : JC\MD
 Sample : Q3464-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

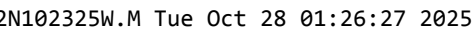
Instrument :
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 ClientSampleId :
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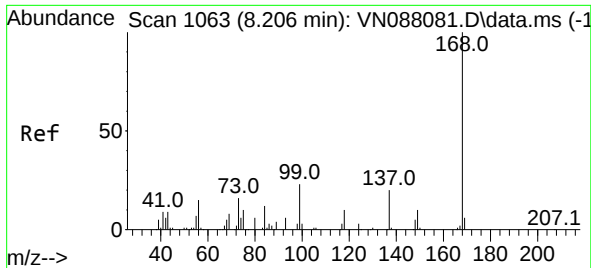
Quant Time: Oct 28 01:26:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	223573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	506770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	486491	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	231113	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	228087	58.997	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.000%
35) Dibromofluoromethane	8.147	113	173646	51.005	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.000%
50) Toluene-d8	10.547	98	622675	47.467	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.940%
62) 4-Bromofluorobenzene	12.829	95	233072	50.309	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.620%
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	16871	5.686	ug/l	99
5) Bromomethane	2.983	94	1755	0.908	ug/l	81
10) Methyl Iodide	4.589	142	778	4.482	ug/l #	38
11) Tert butyl alcohol	5.530	59	605	0.908	ug/l #	71
13) Acrolein	4.165	56	251	0.335	ug/l #	1
16) Acetone	4.430	43	25969	13.371	ug/l	92
17) Carbon Disulfide	4.695	76	2365	0.277	ug/l #	74
20) Methylene Chloride	5.265	84	576	0.961	ug/l #	60
25) 2-Butanone	7.477	43	4471	1.747	ug/l	98
28) Bromochloromethane	7.947	49	4580	1.689	ug/l #	19
30) Chloroform	7.947	83	48967	8.542	ug/l	99
31) Cyclohexane	8.218	56	7073	1.307	ug/l #	38
36) 1,1-Dichloropropene	8.206	75	23088	4.645	ug/l #	51
38) Carbon Tetrachloride	8.206	117	27396	5.336	ug/l #	14
47) Bromodichloromethane	9.865	83	7823	1.433	ug/l	95
71) Bromoform	12.829	173	1349	0.499	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	133419	25.250	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	133419	70.435	ug/l #	1
94) Hexachlorobutadiene	15.470	225	427	0.256	ug/l #	18
95) Naphthalene	15.617	128	18406	1.199	ug/l	99

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

Quant Time: Oct 28 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

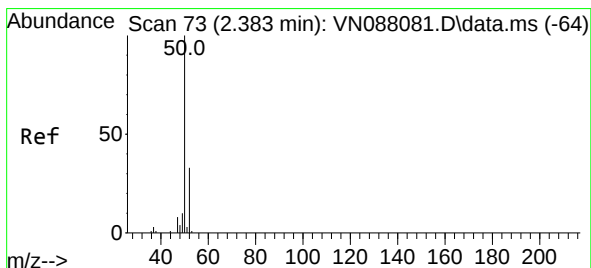
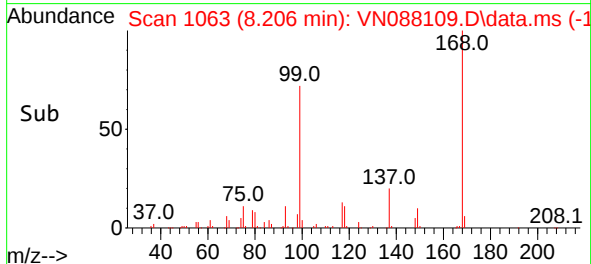
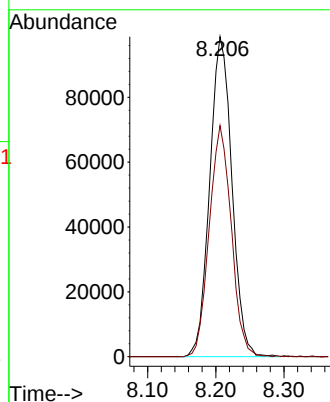
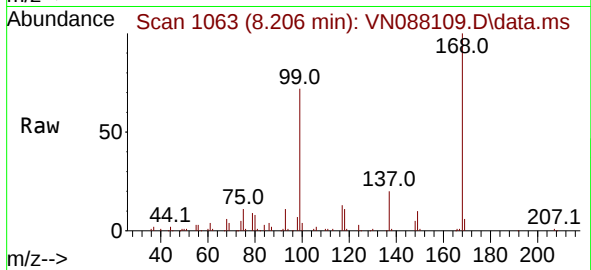




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

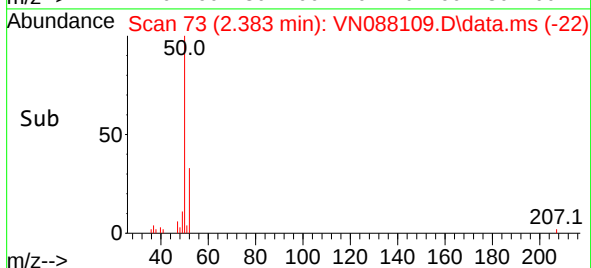
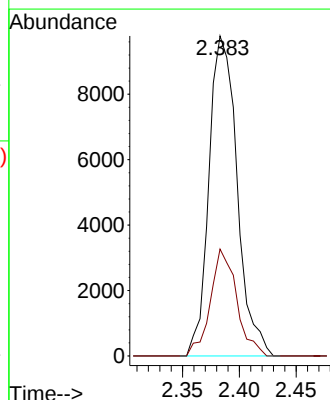
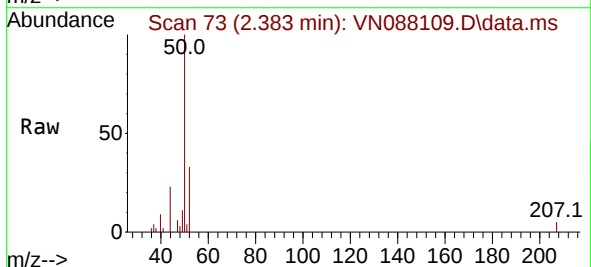
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MSVOA_N
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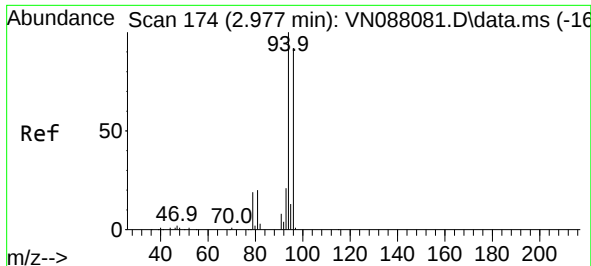
Tgt Ion:168 Resp: 223573
Ion Ratio Lower Upper
168 100
99 72.2 57.2 85.8



#3
Chloromethane
Concen: 5.686 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 50 Resp: 16871
Ion Ratio Lower Upper
50 100
52 33.4 26.2 39.4

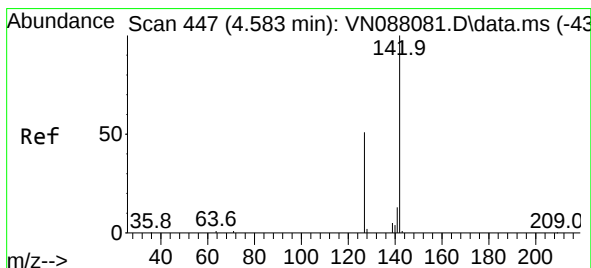
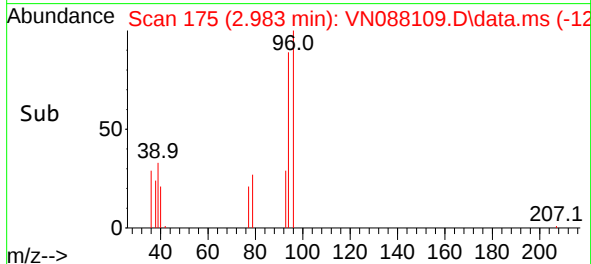
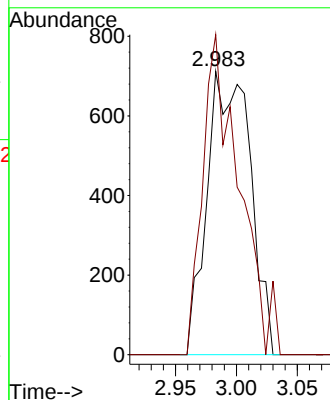
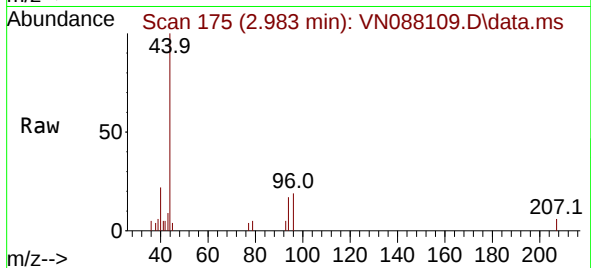




#5
Bromomethane
Concen: 0.908 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

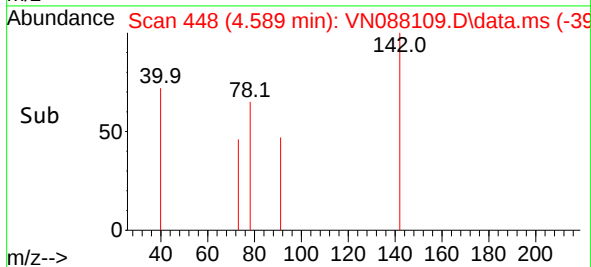
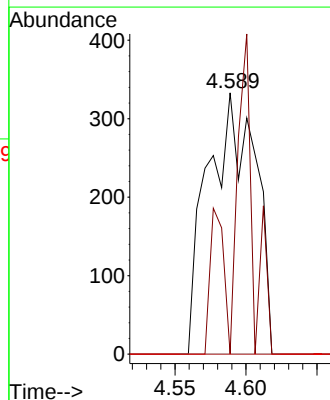
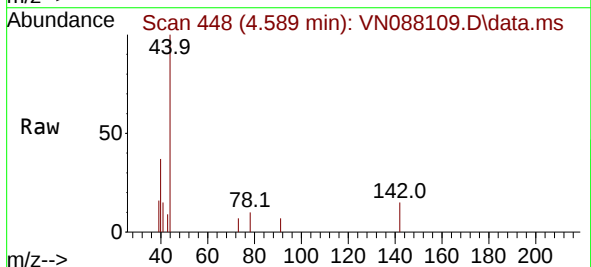
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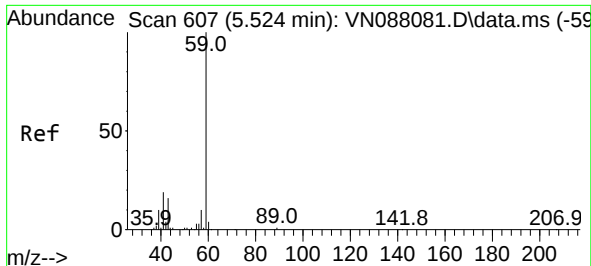
Tgt Ion: 94 Resp: 1755
Ion Ratio Lower Upper
94 100
96 112.9 75.4 113.2



#10
Methyl Iodide
Concen: 4.482 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion:142 Resp: 778
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

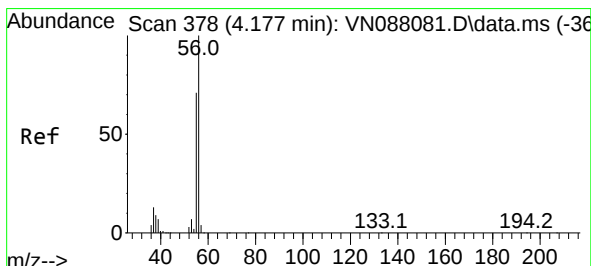
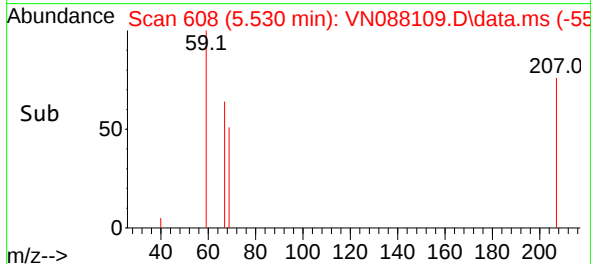
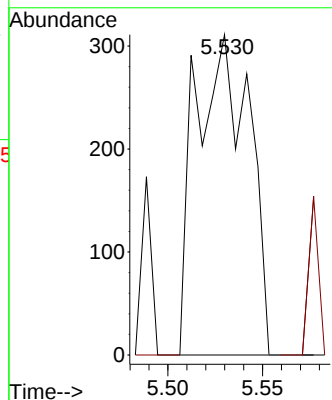
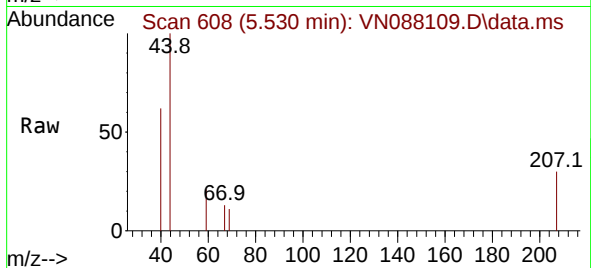




#11
Tert butyl alcohol
Concen: 0.908 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

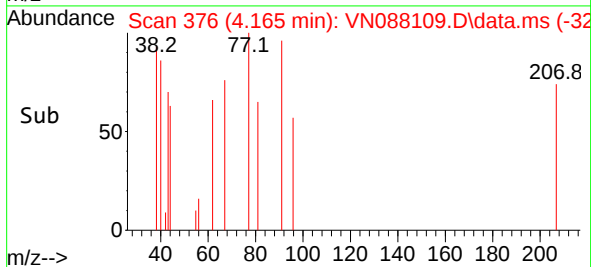
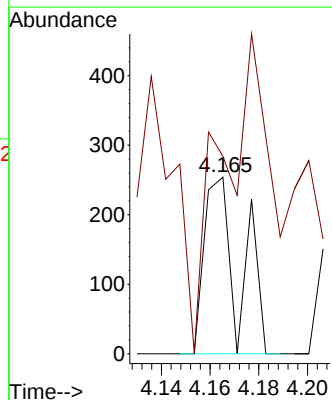
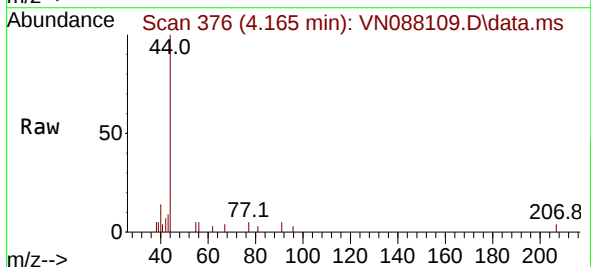
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ClientSampleId :
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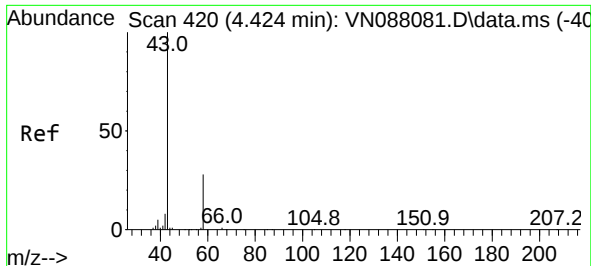
Tgt Ion: 59 Resp: 605
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.335 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 56 Resp: 251
Ion Ratio Lower Upper
56 100
55 249.0 57.3 85.9#

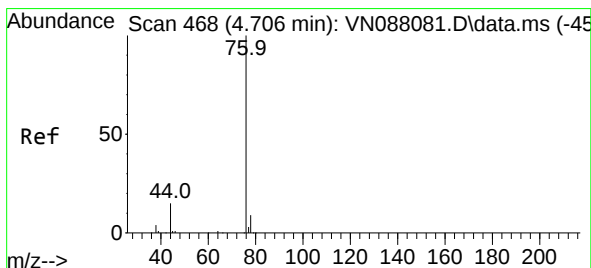
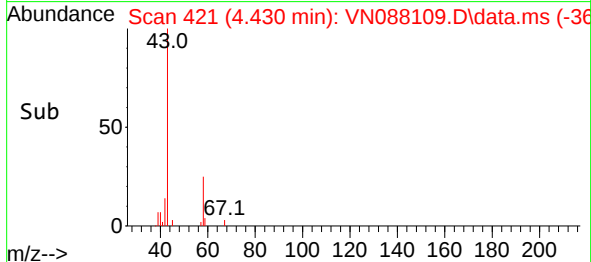
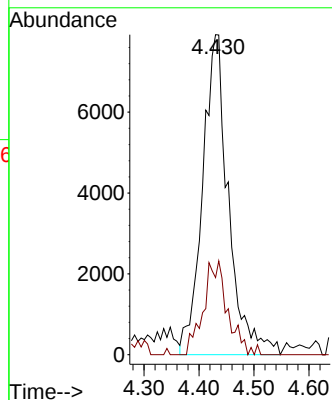
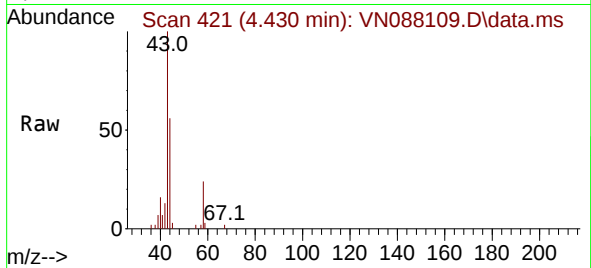




#16
Acetone
Concen: 13.371 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

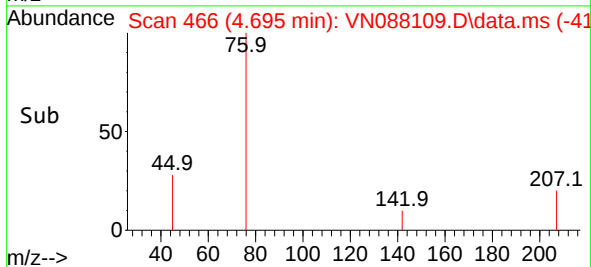
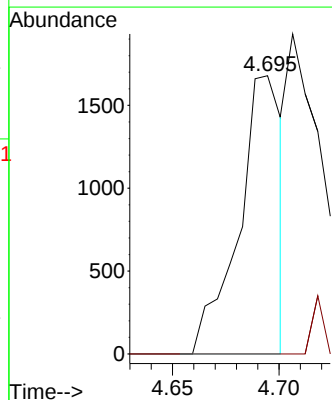
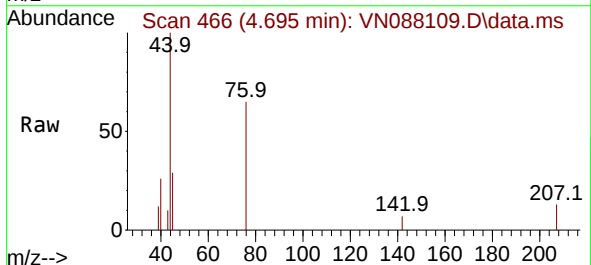
Instrument :
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ClientSampleId :
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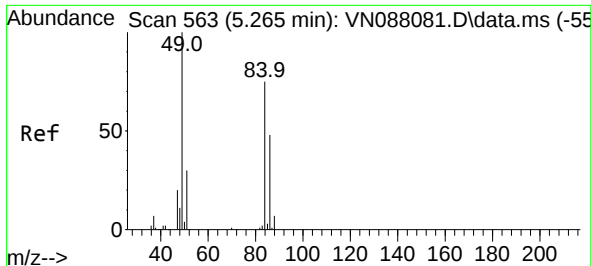
Tgt Ion: 43 Resp: 25969
Ion Ratio Lower Upper
43 100
58 24.1 22.6 33.8



#17
Carbon Disulfide
Concen: 0.277 ug/l
RT: 4.695 min Scan# 466
Delta R.T. -0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 76 Resp: 2365
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

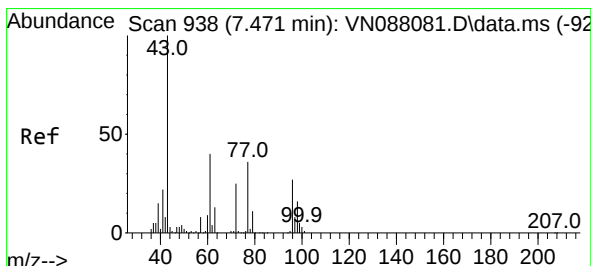
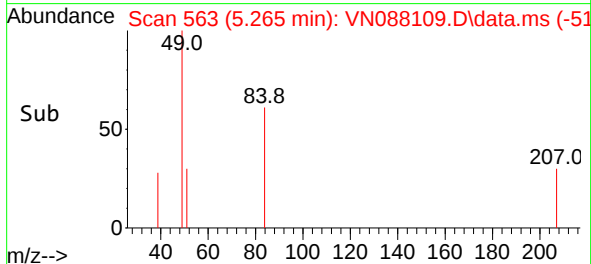
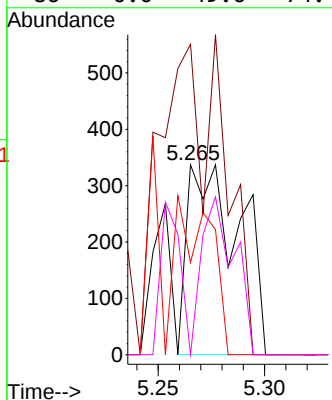
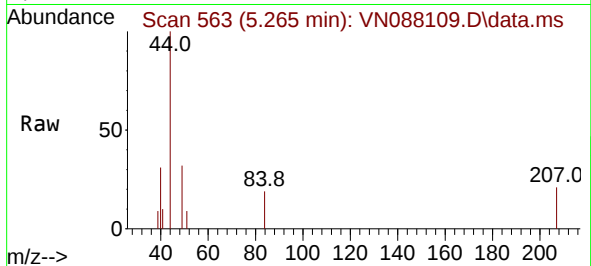




#20
Methylene Chloride
Concen: 0.961 ug/l
RT: 5.265 min Scan# 501
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

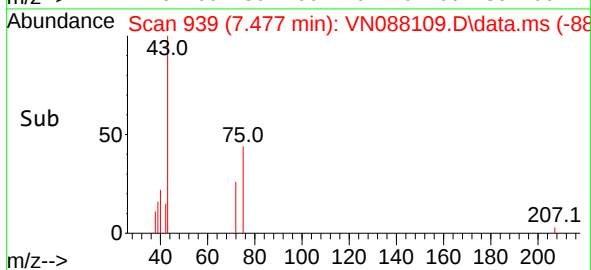
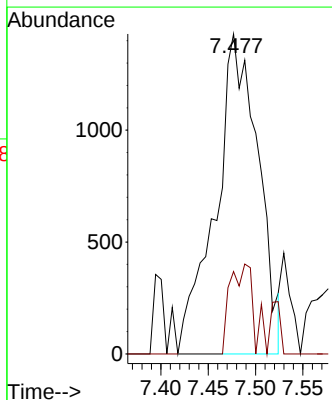
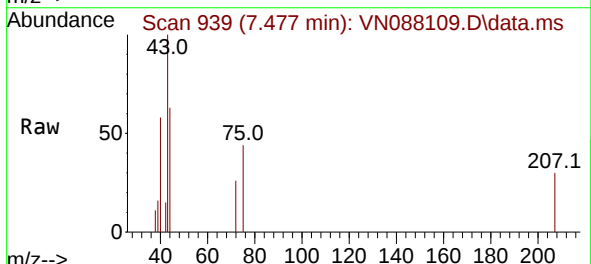
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ClientSampleId :
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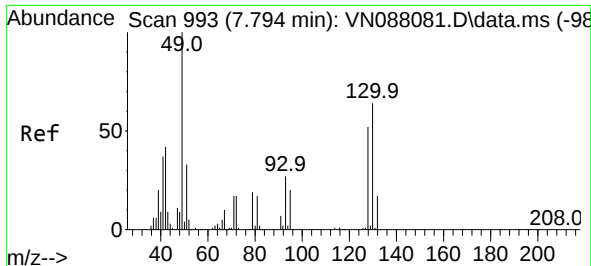
Tgt Ion:	84	Resp:	576
Ion	Ratio	Lower	Upper
84	100		
49	163.5	103.4	155.2#
51	48.7	33.8	50.8
86	0.0	49.6	74.4#



#25
2-Butanone
Concen: 1.747 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion:	43	Resp:	4471
Ion	Ratio	Lower	Upper
43	100		
72	25.7	19.9	29.9

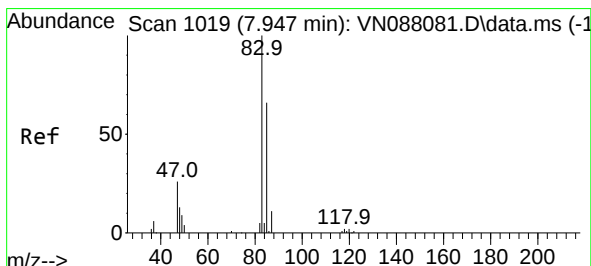
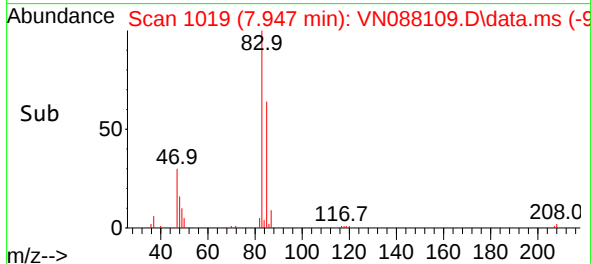
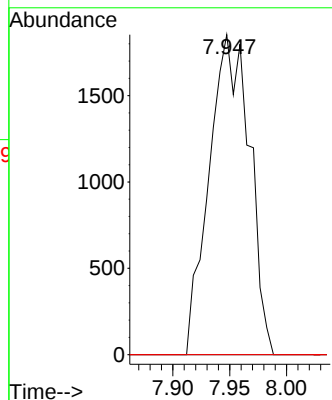
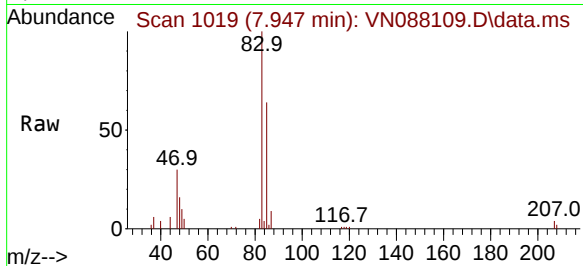




#28
Bromochloromethane
Concen: 1.689 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.147 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

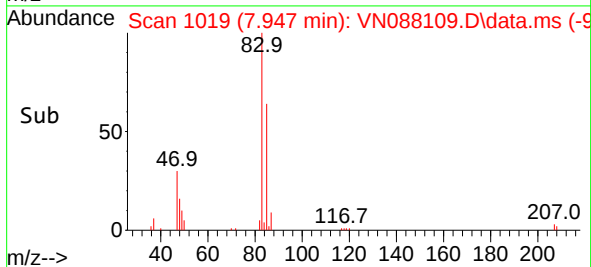
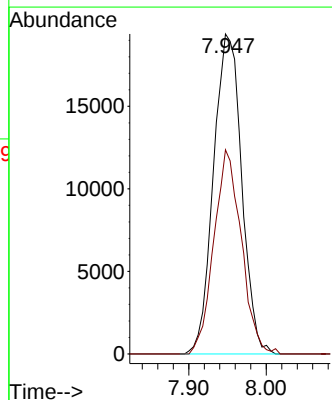
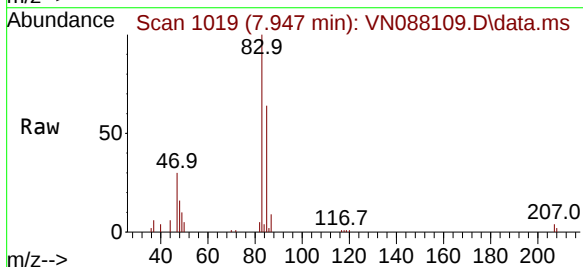
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ClientSampleId :
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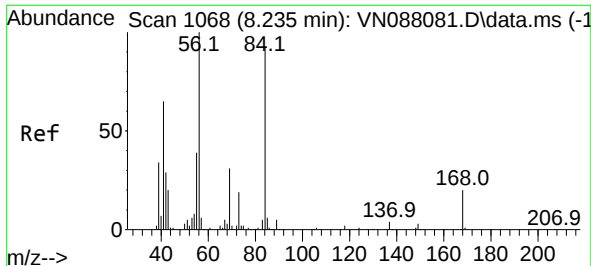
Tgt Ion: 49 Resp: 4580
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 0.0 53.1 79.7#



#30
Chloroform
Concen: 8.542 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 83 Resp: 48967
Ion Ratio Lower Upper
83 100
85 63.8 50.7 76.1

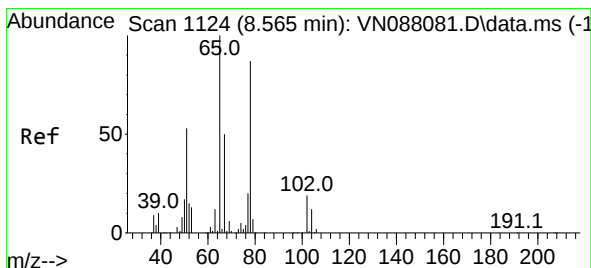
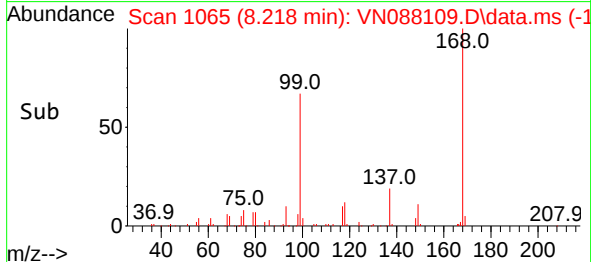
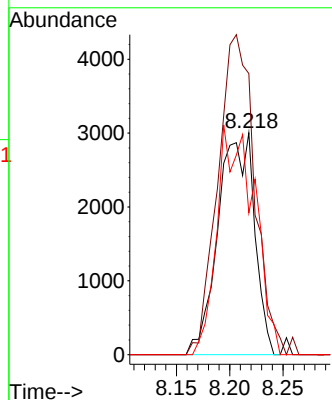
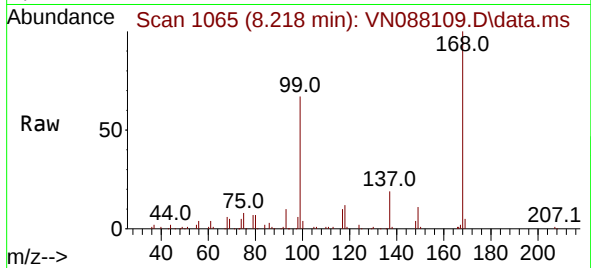




#31
Cyclohexane
Concen: 1.307 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.018 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

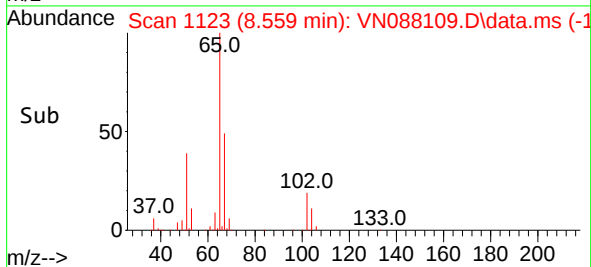
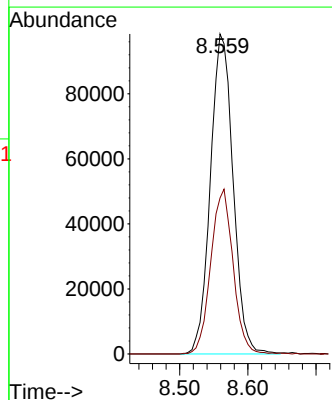
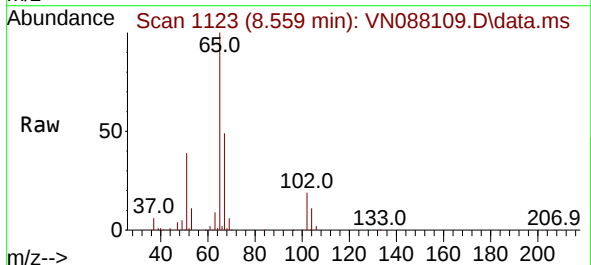
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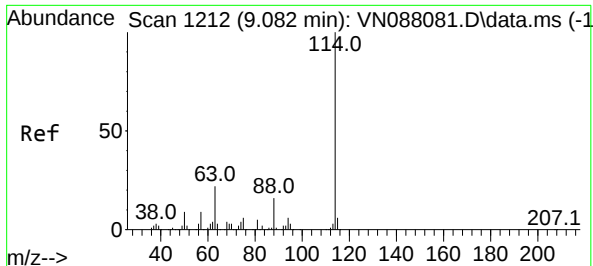
Tgt Ion: 56 Resp: 7073
Ion Ratio Lower Upper
56 100
69 126.6 23.7 35.5#
84 63.9 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 58.997 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 65 Resp: 228087
Ion Ratio Lower Upper
65 100
67 50.5 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

MW3

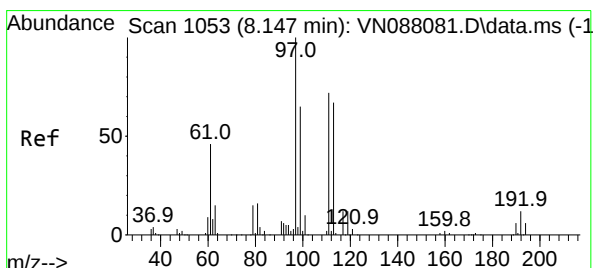
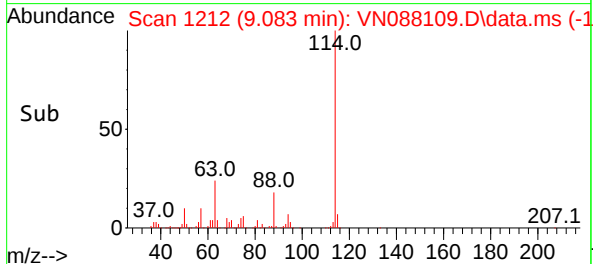
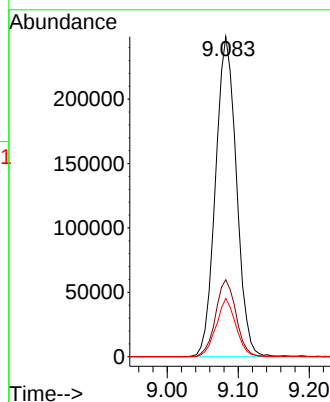
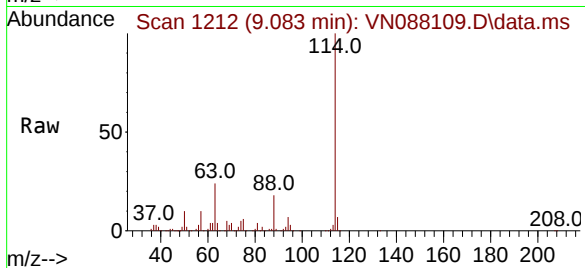
Tgt Ion:114 Resp: 506770

Ion Ratio Lower Upper

114 100

63 24.1 0.0 45.2

88 18.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.005 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

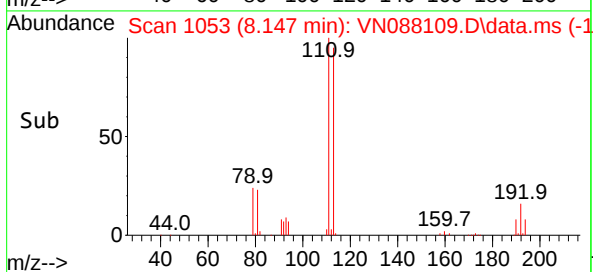
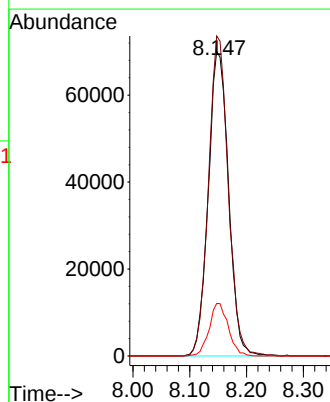
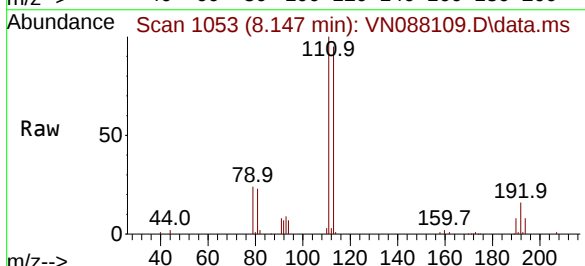
Tgt Ion:113 Resp: 173646

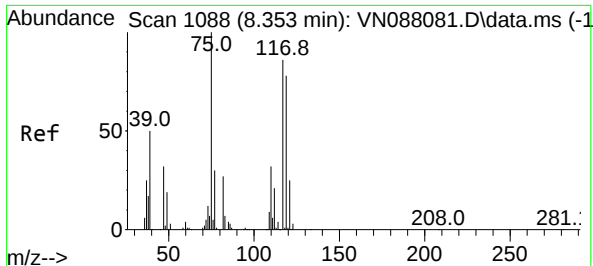
Ion Ratio Lower Upper

113 100

111 102.2 82.8 124.2

192 16.2 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.645 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

MW3

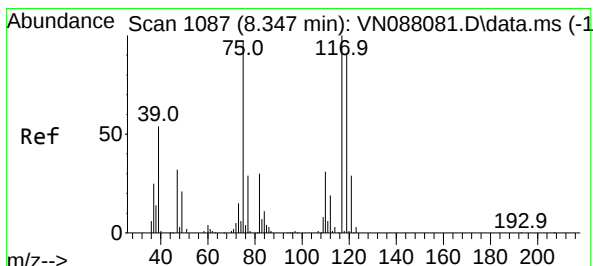
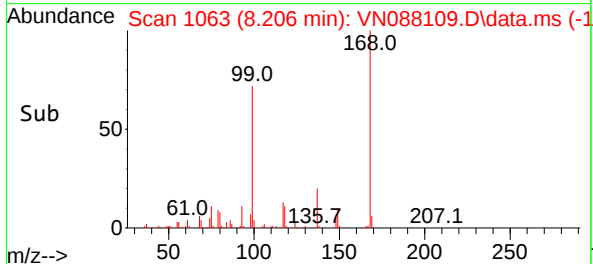
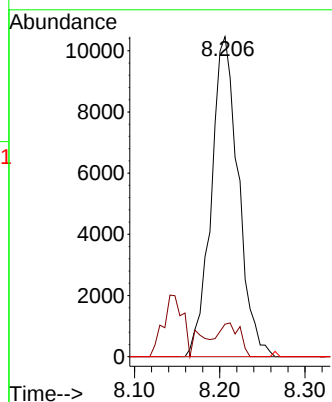
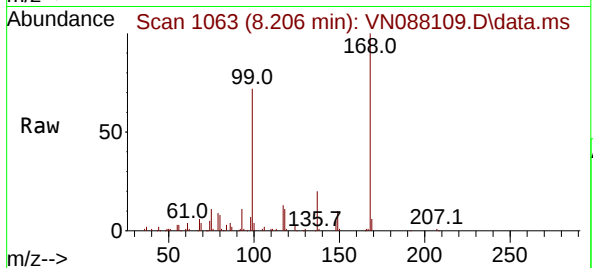
Tgt Ion: 75 Resp: 23088

Ion Ratio Lower Upper

75 100

110 8.5 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.336 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

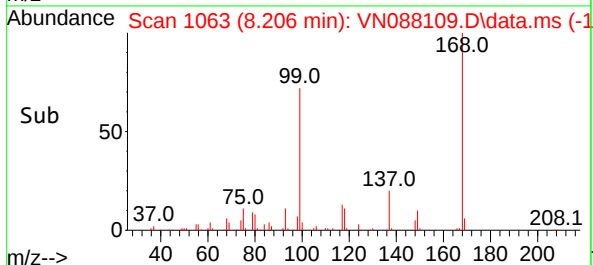
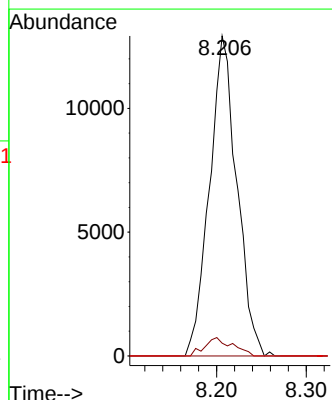
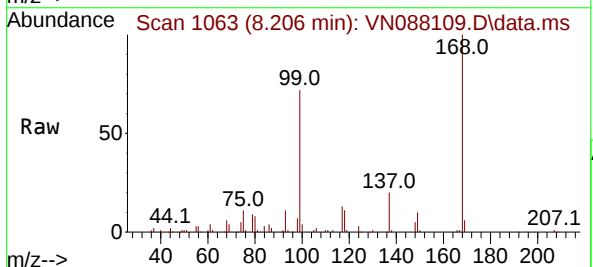
Tgt Ion: 117 Resp: 27396

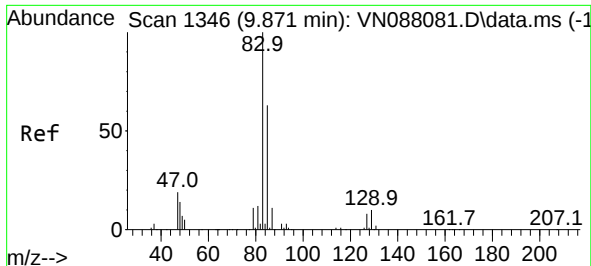
Ion Ratio Lower Upper

117 100

119 4.0 79.0 118.6#

121 0.0 25.0 37.6#

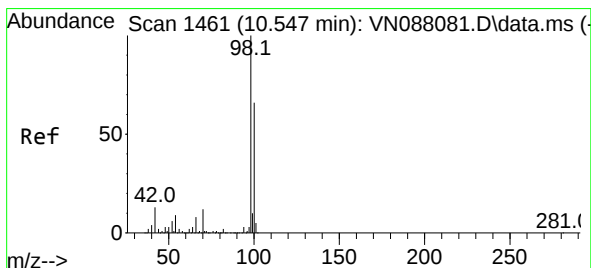
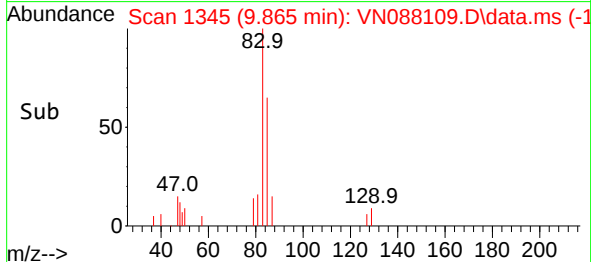
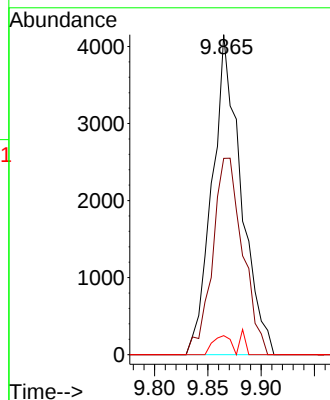
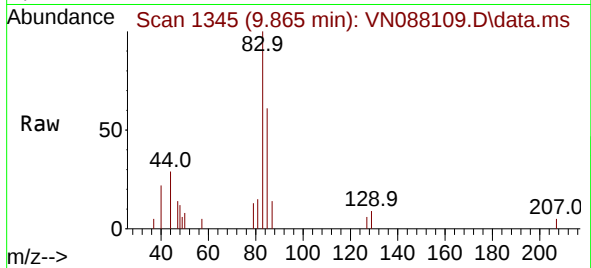




#47
Bromodichloromethane
Concen: 1.433 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

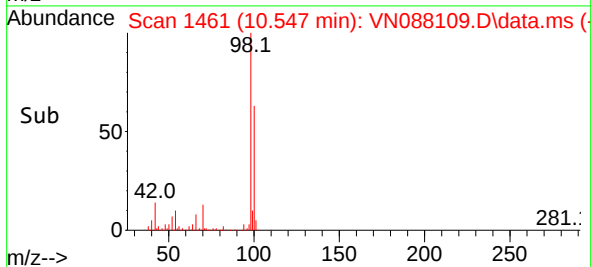
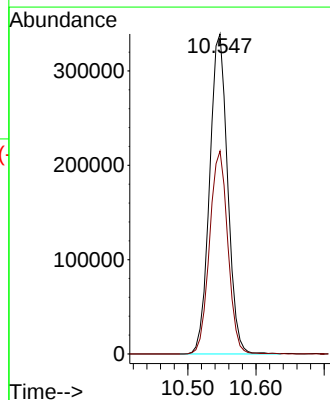
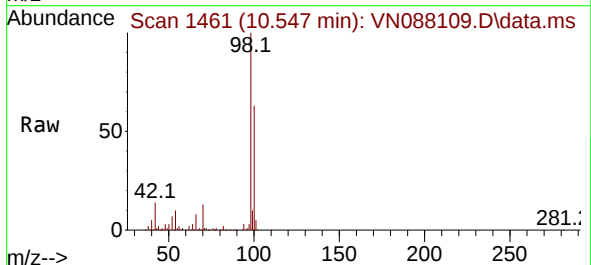
Instrument :
MSVOA_N
ClientSampleId :
MW3

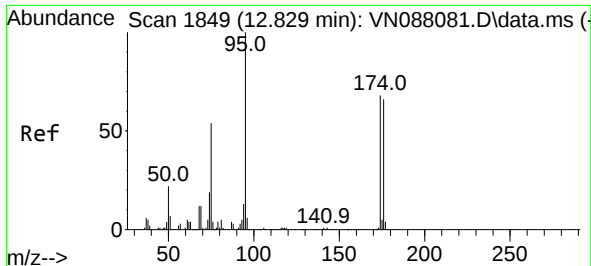
Tgt Ion: 83 Resp: 7823
Ion Ratio Lower Upper
83 100
85 61.3 52.5 78.7
127 5.9 5.8 8.6



#50
Toluene-d8
Concen: 47.467 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 98 Resp: 622675
Ion Ratio Lower Upper
98 100
100 64.2 52.8 79.2

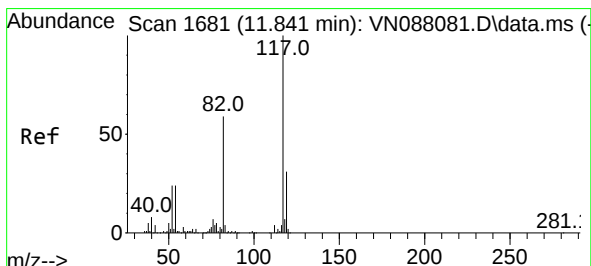
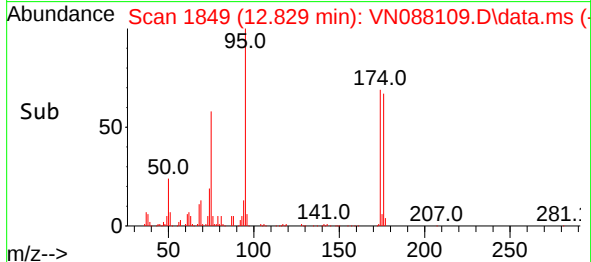
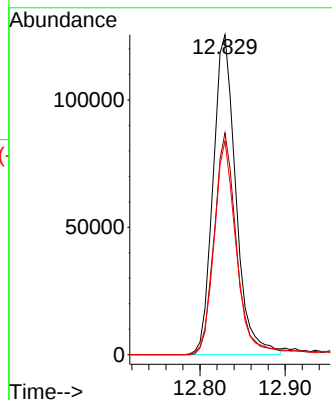
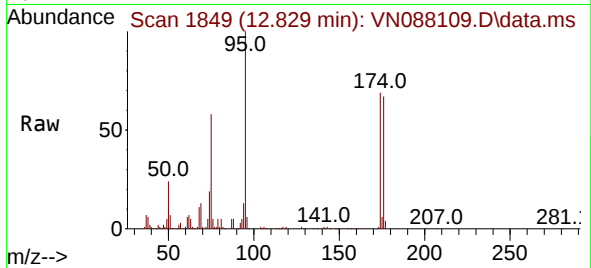




#62
4-Bromofluorobenzene
Concen: 50.309 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

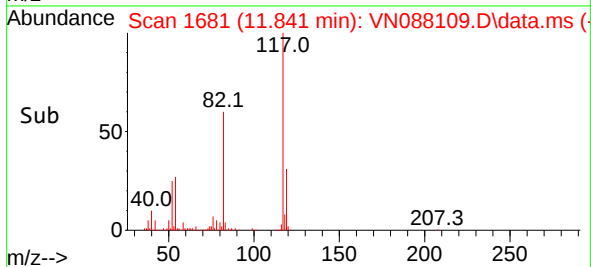
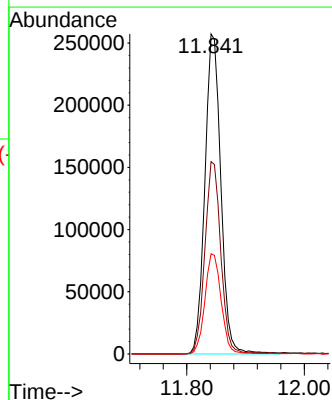
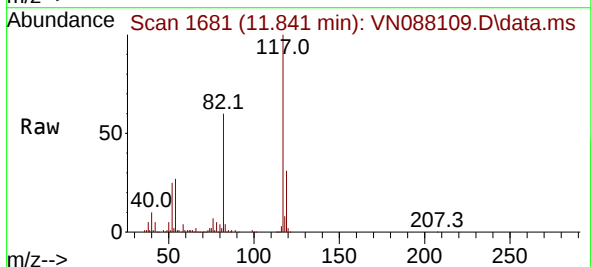
Instrument :
MSVOA_N
ClientSampleId :
MW3

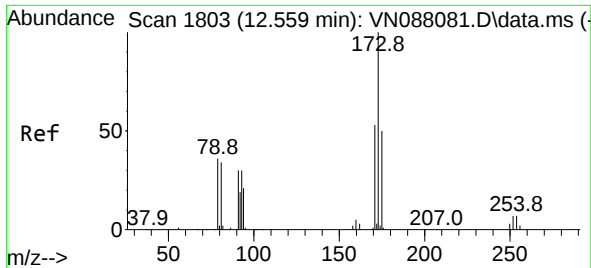
Tgt Ion: 95 Resp: 233072
Ion Ratio Lower Upper
95 100
174 67.5 0.0 138.4
176 66.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 117 Resp: 486491
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 31.3 24.3 36.5

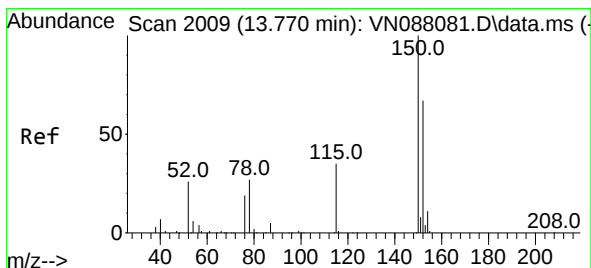
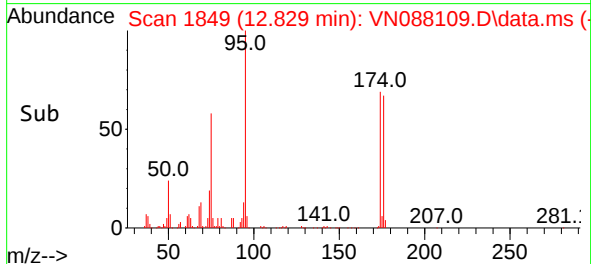
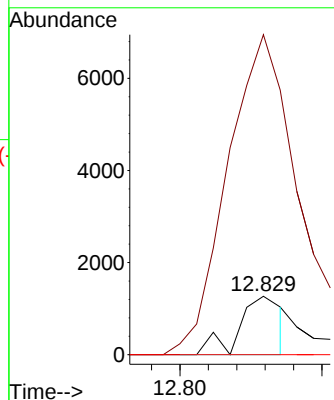
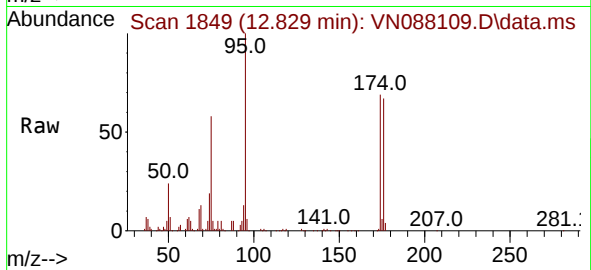




#71
Bromoform
Concen: 0.499 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.271 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

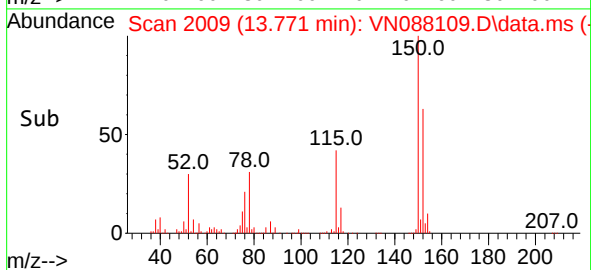
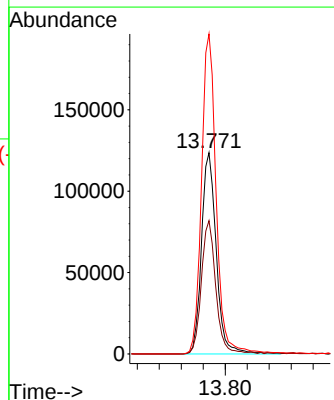
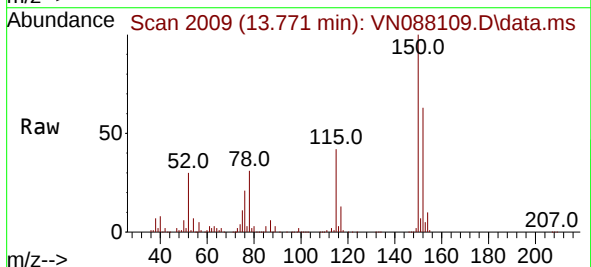
Instrument :
MSVOA_N
ClientSampleId :
MW3

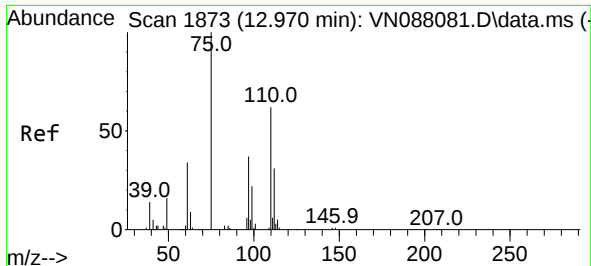
Tgt Ion:173 Resp: 1349
Ion Ratio Lower Upper
173 100
175 686.9 24.9 74.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion:152 Resp: 231113
Ion Ratio Lower Upper
152 100
115 64.6 32.3 96.8
150 158.0 0.0 351.0

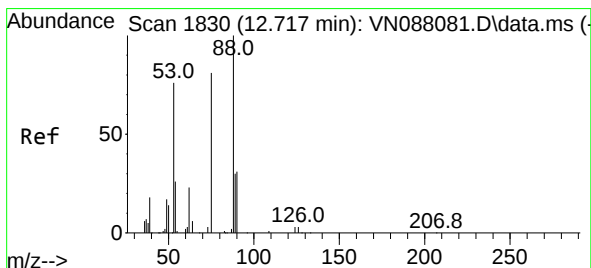
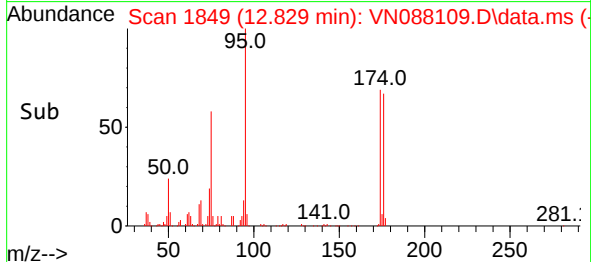
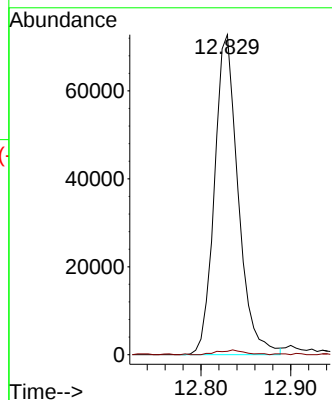
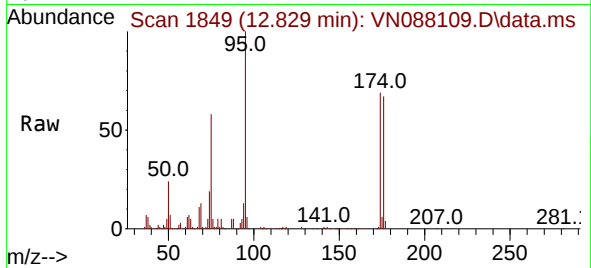




#76
1,2,3-Trichloropropane
Concen: 25.250 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

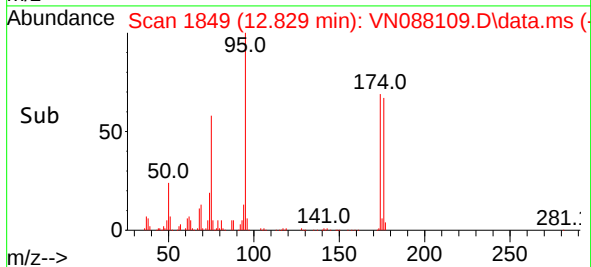
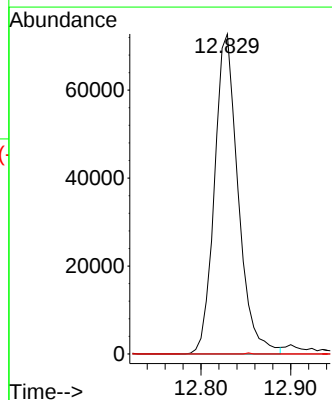
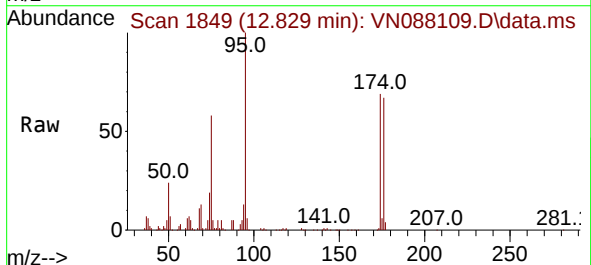
Instrument :
MSVOA_N
ClientSampleId :
MW3

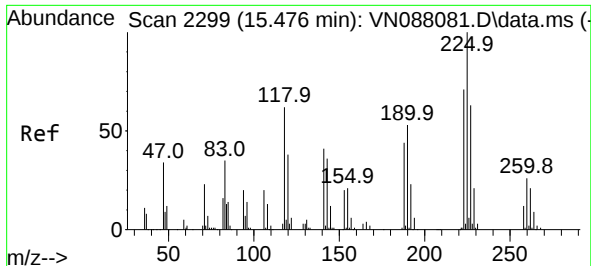
Tgt Ion: 75 Resp: 133419
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.435 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 75 Resp: 133419
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

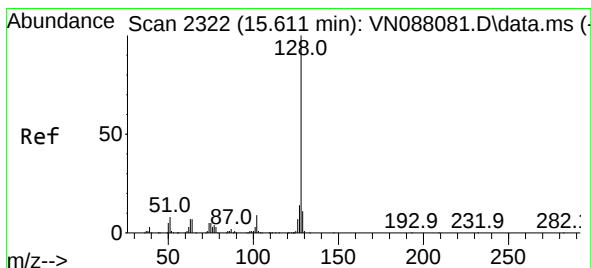
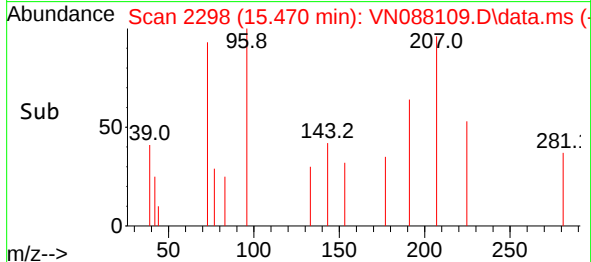
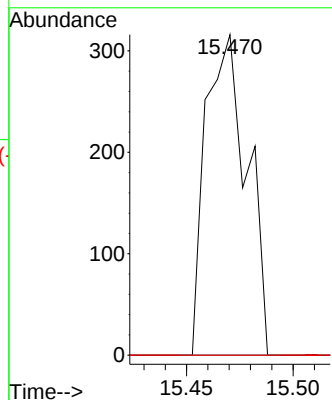
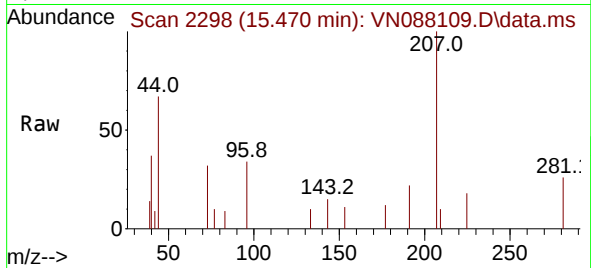




#94
Hexachlorobutadiene
Concen: 0.256 ug/l
RT: 15.470 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Instrument :
MSVOA_N
ClientSampleId :
MW3

Tgt Ion:225 Resp: 427
Ion Ratio Lower Upper
225 100
223 0.0 32.0 96.2#
227 0.0 32.1 96.5#



#95
Naphthalene
Concen: 1.199 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion:128 Resp: 18406
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 11.1 8.6 12.8

