

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111725\
 Data File : VN088297.D
 Acq On : 17 Nov 2025 12:37
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Nov 18 02:58:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

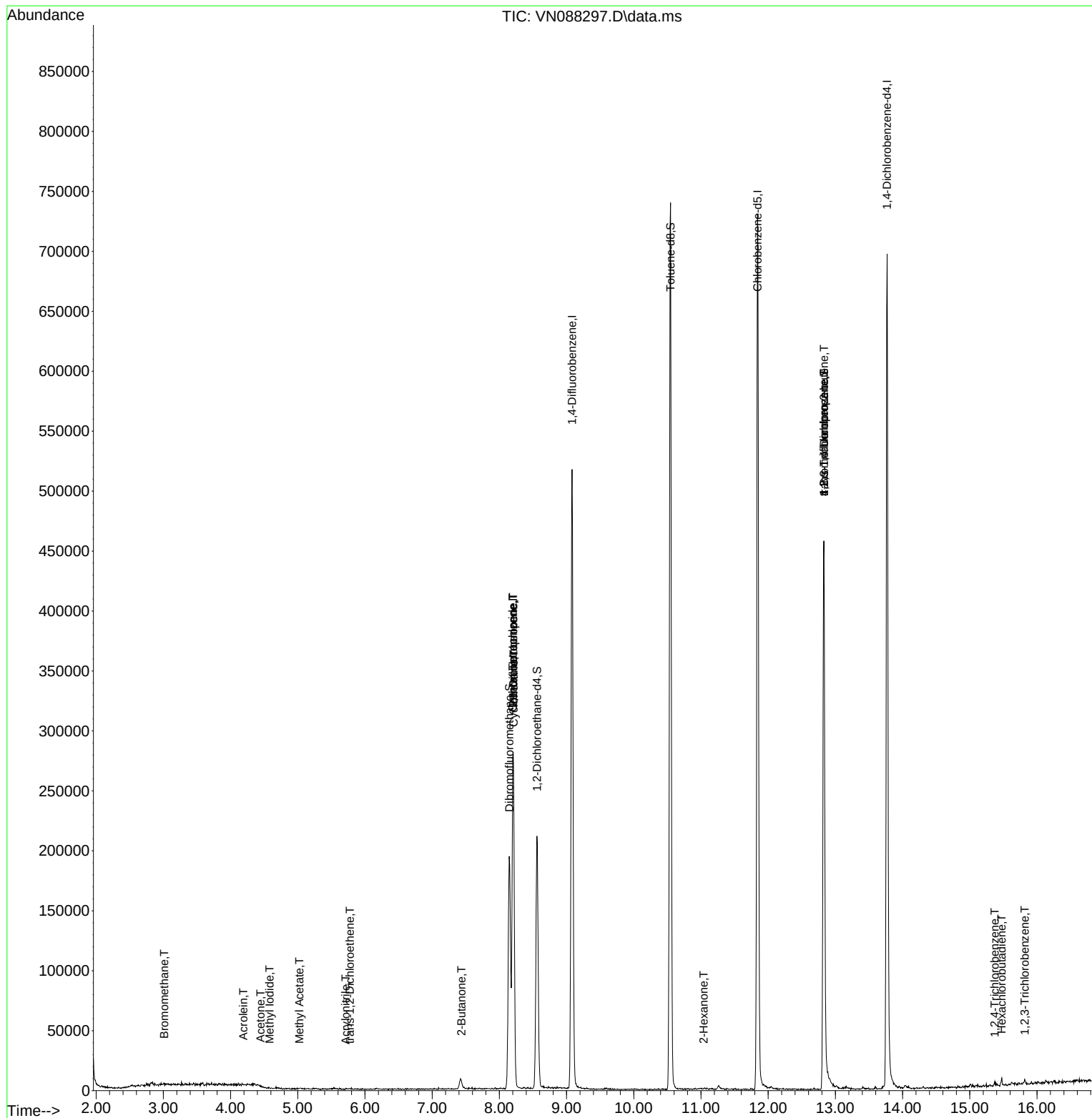
Internal Standards						
1) Pentafluorobenzene	8.206	168	190582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	427343	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	405111	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	189838	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	177181	53.764	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.520%		
35) Dibromofluoromethane	8.147	113	139847	48.712	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.420%		
50) Toluene-d8	10.547	98	494417	44.695	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 89.380%		
62) 4-Bromofluorobenzene	12.829	95	179468	45.938	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 91.880%		
Target Compounds						
					Qvalue	
5) Bromomethane	3.012	94	758	0.460	ug/l #	36
10) Methyl Iodide	4.583	142	601	0.290	ug/l #	38
13) Acrolein	4.189	56	621	0.972	ug/l #	44
15) Acrylonitrile	5.712	53	376	0.243	ug/l #	44
16) Acetone	4.448	43	1524	0.920	ug/l #	47
18) Methyl Acetate	5.024	43	737	0.217	ug/l #	54
21) trans-1,2-Dichloroethene	5.777	96	579	0.220	ug/l #	39
25) 2-Butanone	7.436	43	461	0.211	ug/l #	50
31) Cyclohexane	8.212	56	6478	1.404	ug/l #	43
36) 1,1-Dichloropropene	8.206	75	20197	4.818	ug/l #	51
38) Carbon Tetrachloride	8.200	117	22315	5.154	ug/l #	15
59) 2-Hexanone	11.041	43	684	0.210	ug/l	73
76) 1,2,3-Trichloropropane	12.829	75	98368	22.664	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	98368	63.222	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.370	180	799	0.217	ug/l #	82
94) Hexachlorobutadiene	15.476	225	1003	0.732	ug/l	86
96) 1,2,3-Trichlorobenzene	15.817	180	1447	0.410	ug/l #	60

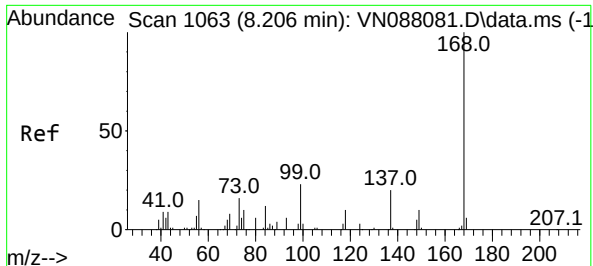
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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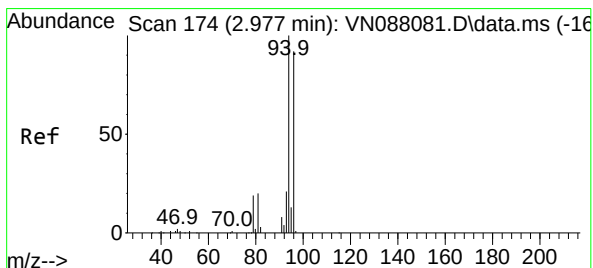
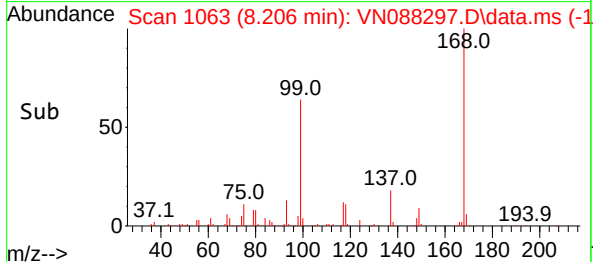
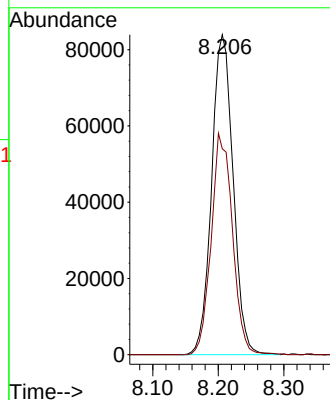
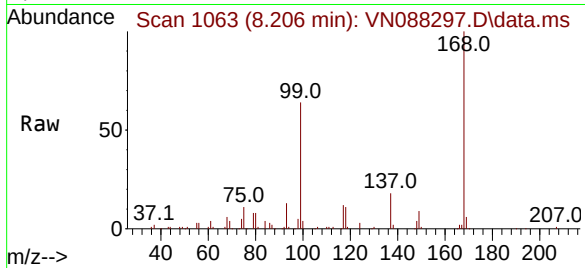




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

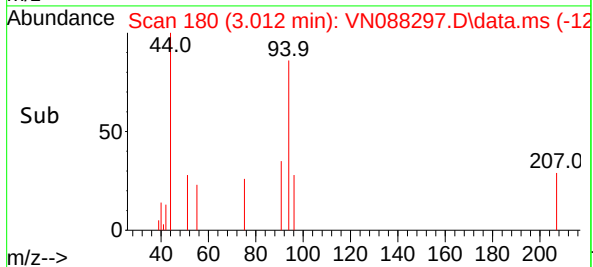
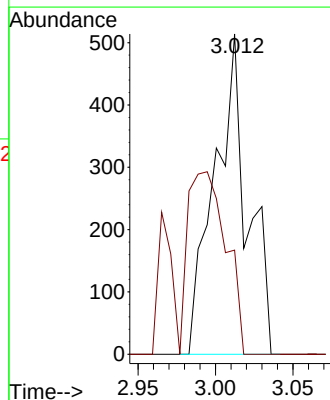
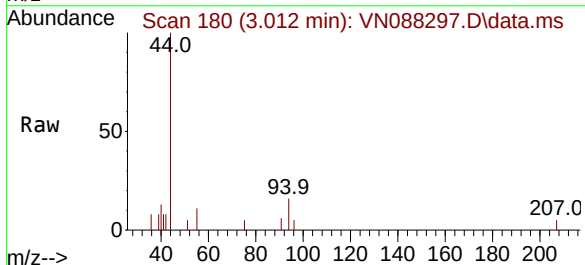
Instrument :
MSVOA_N
ClientSampleId :
IBLK

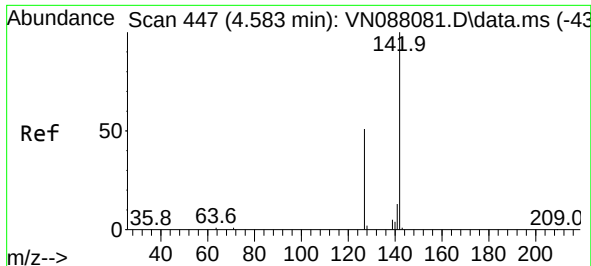
Tgt Ion:168 Resp: 190582
Ion Ratio Lower Upper
168 100
99 64.3 57.2 85.8



#5
Bromomethane
Concen: 0.460 ug/l
RT: 3.012 min Scan# 180
Delta R.T. 0.041 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 94 Resp: 758
Ion Ratio Lower Upper
94 100
96 32.5 75.4 113.2#

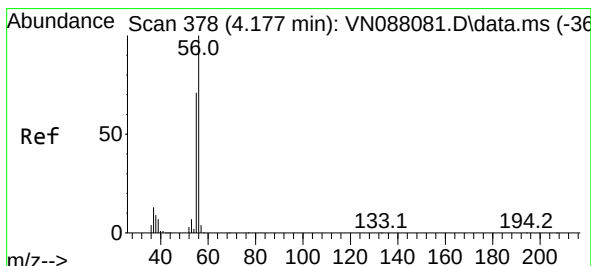
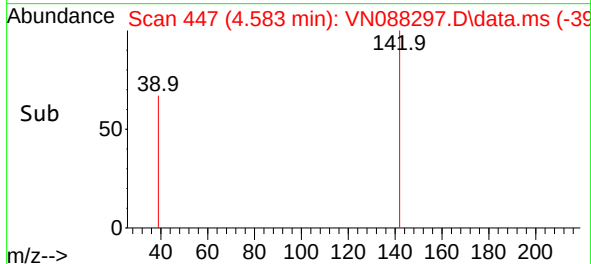
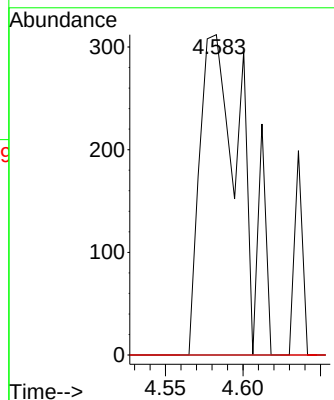
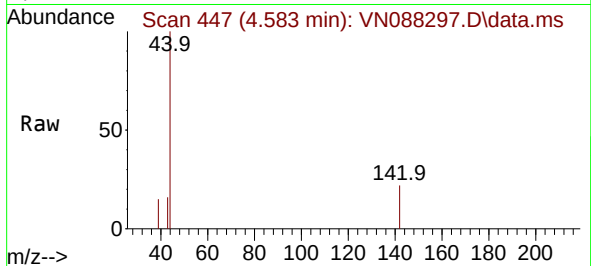




#10
Methyl Iodide
Concen: 0.290 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

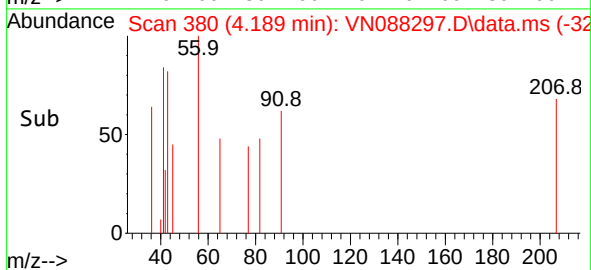
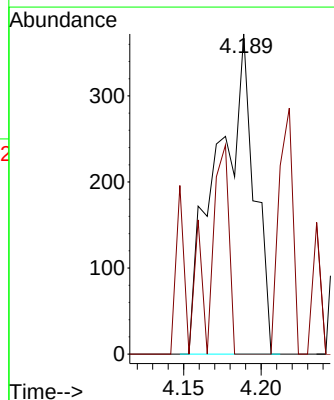
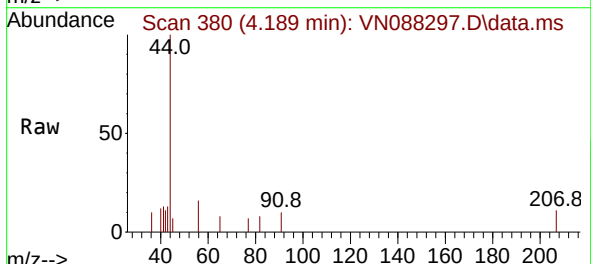
Instrument :
MSVOA_N
ClientSampleId :
IBLK

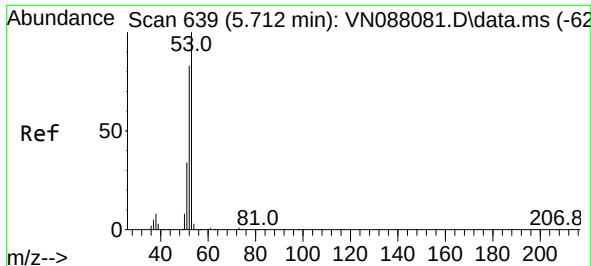
Tgt Ion:142 Resp: 601
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.972 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.018 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 56 Resp: 621
Ion Ratio Lower Upper
56 100
55 25.4 57.3 85.9#

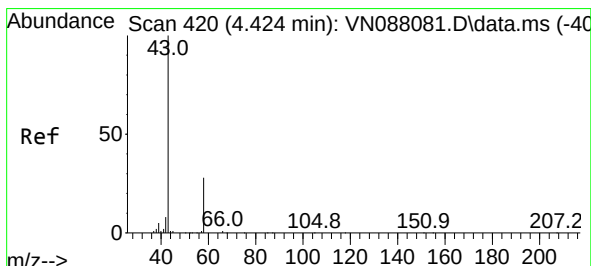
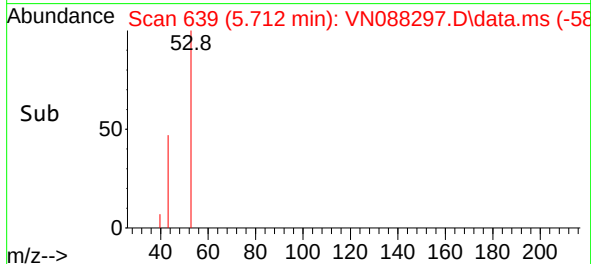
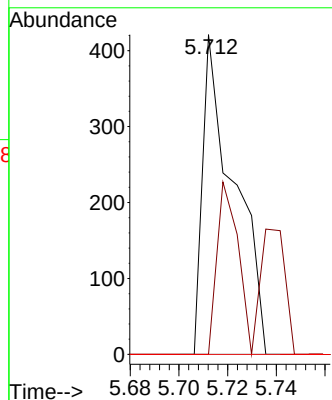
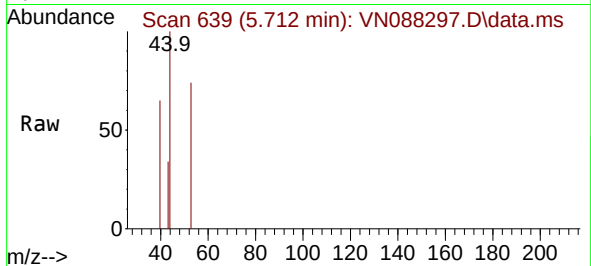




#15
Acrylonitrile
Concen: 0.243 ug/l
RT: 5.712 min Scan# 615
Delta R.T. 0.006 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

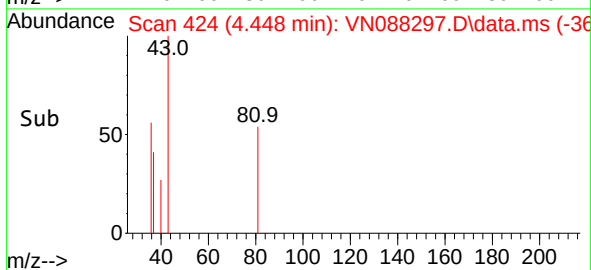
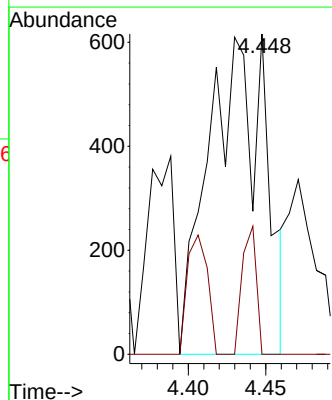
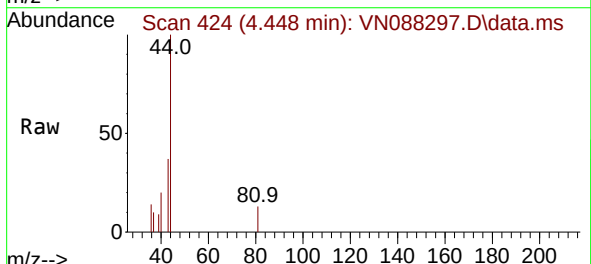
Instrument :
MSVOA_N
ClientSampleId :
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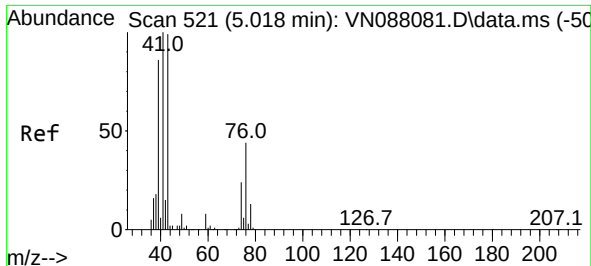
Tgt Ion: 53 Resp: 376
Ion Ratio Lower Upper
53 100
52 36.2 67.6 101.4#
51 0.0 30.1 45.1#



#16
Acetone
Concen: 0.920 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.024 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 43 Resp: 1524
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#

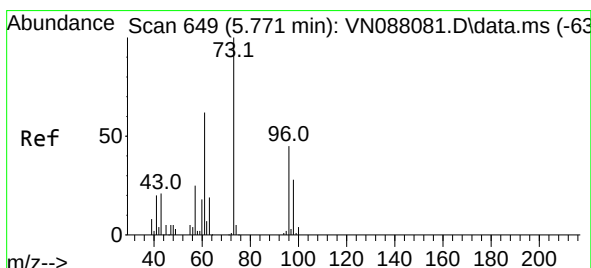
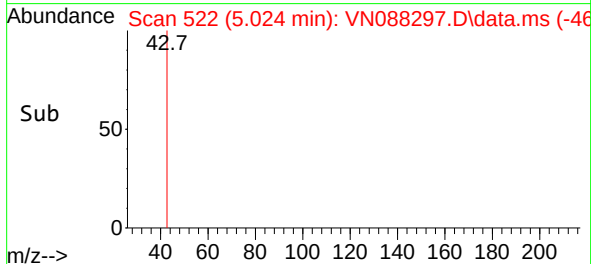
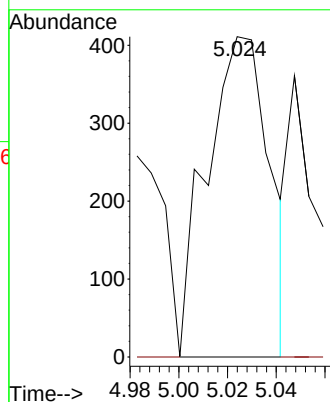
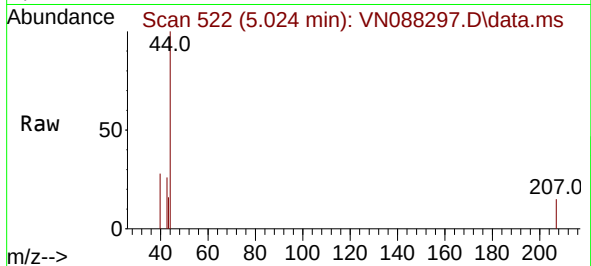




#18
Methyl Acetate
Concen: 0.217 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

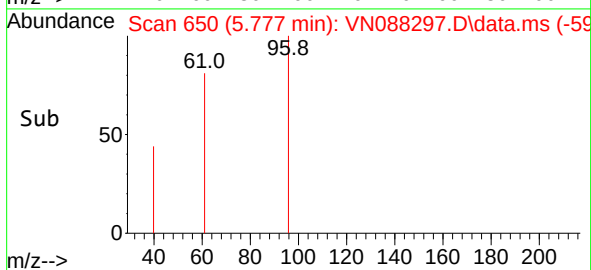
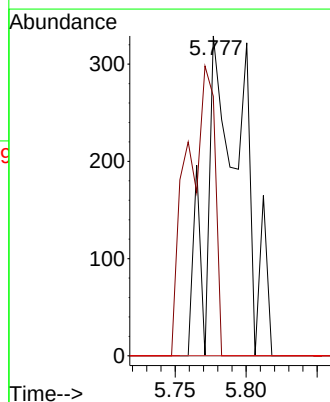
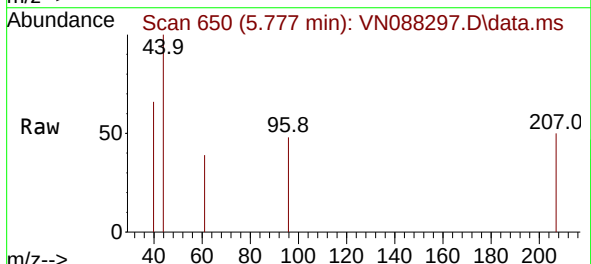
Instrument :
MSVOA_N
ClientSampleId :
IBLK

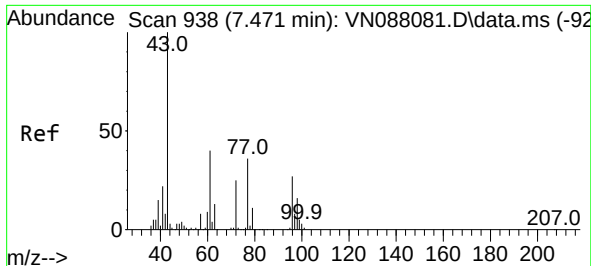
Tgt Ion: 43 Resp: 737
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#21
trans-1,2-Dichloroethene
Concen: 0.220 ug/l
RT: 5.777 min Scan# 650
Delta R.T. -0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 96 Resp: 579
Ion Ratio Lower Upper
96 100
61 81.2 118.0 177.0#
98 0.0 50.0 75.0#

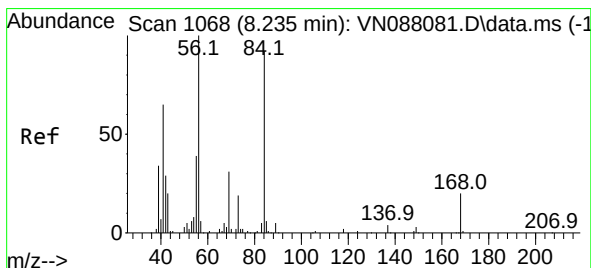
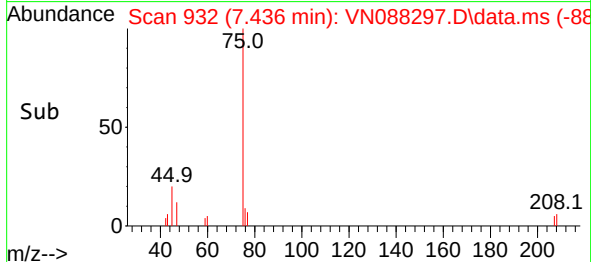
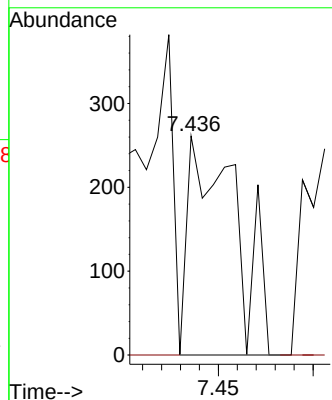
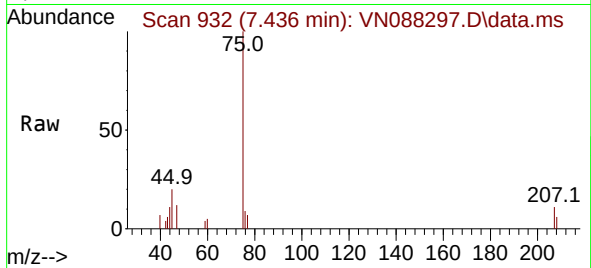




#25
2-Butanone
Concen: 0.211 ug/l
RT: 7.436 min Scan# 91
Delta R.T. -0.029 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

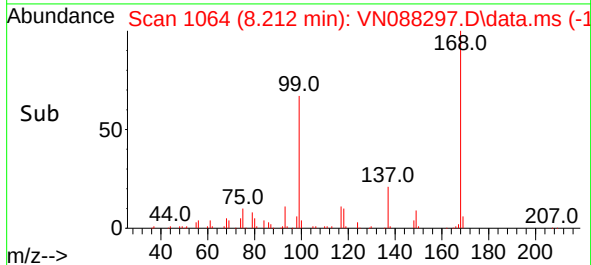
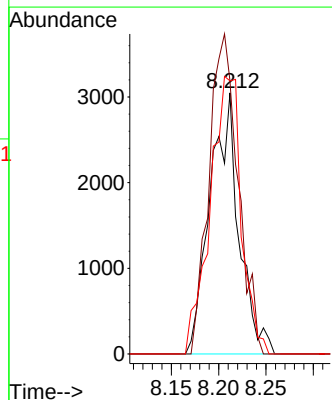
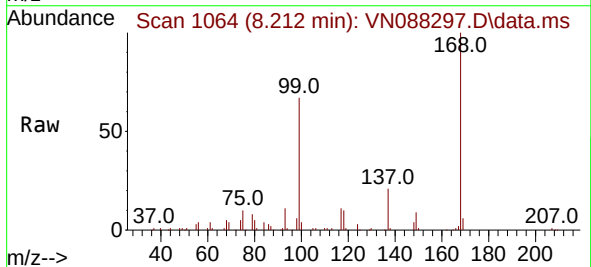
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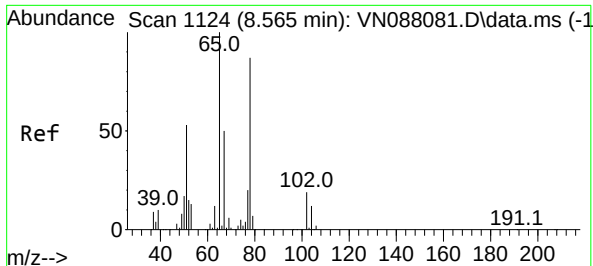
Tgt Ion: 43 Resp: 461
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.404 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 56 Resp: 6478
Ion Ratio Lower Upper
56 100
69 104.6 23.7 35.5#
84 104.6 64.7 97.1#

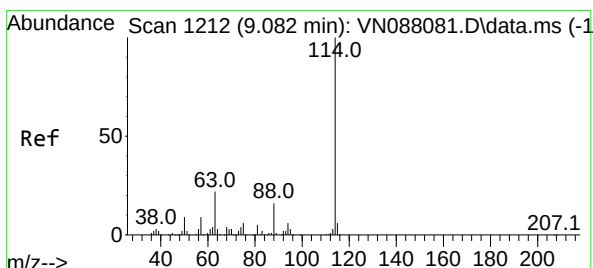
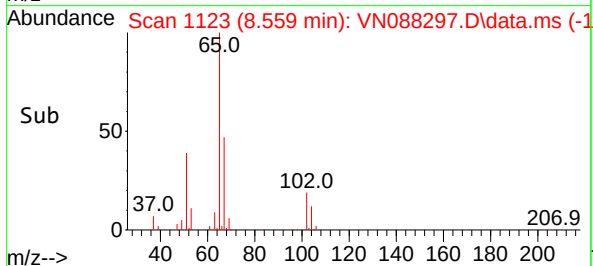
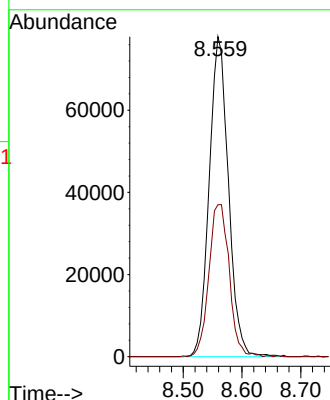
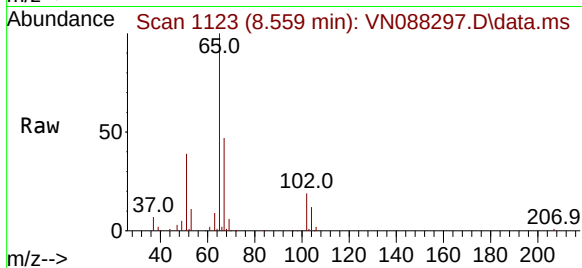




#33
1,2-Dichloroethane-d4
Concen: 53.764 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

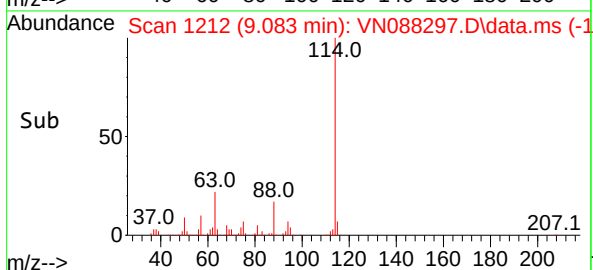
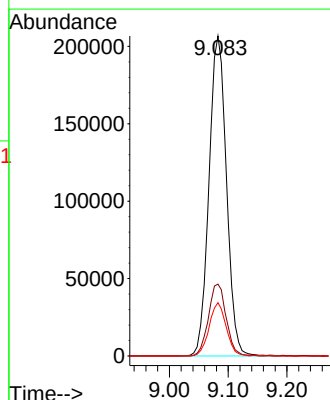
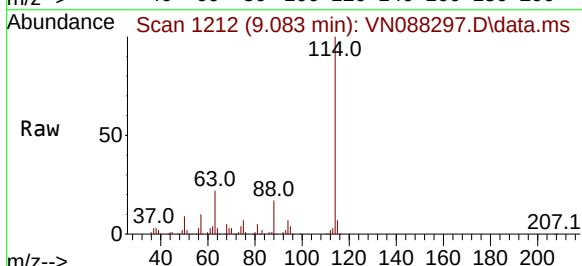
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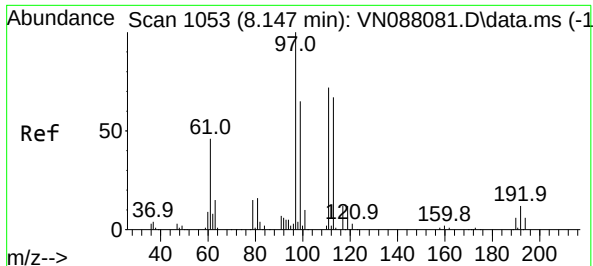
Tgt Ion: 65 Resp: 177181
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion:114 Resp: 427343
Ion Ratio Lower Upper
114 100
63 22.5 0.0 45.2
88 16.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 48.712 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088297.D

Acq: 17 Nov 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

IBLK

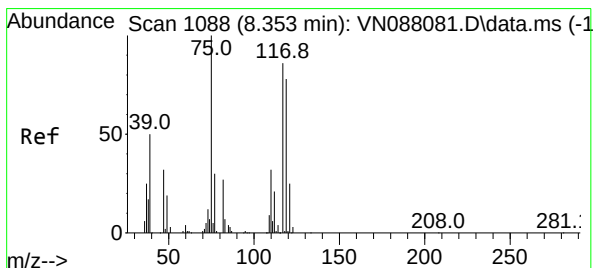
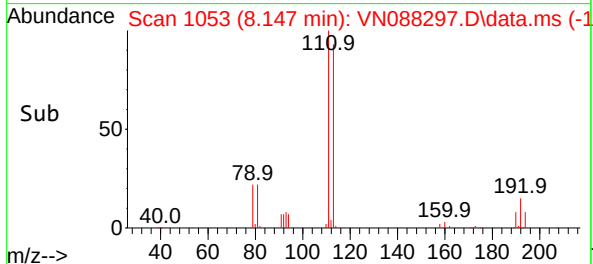
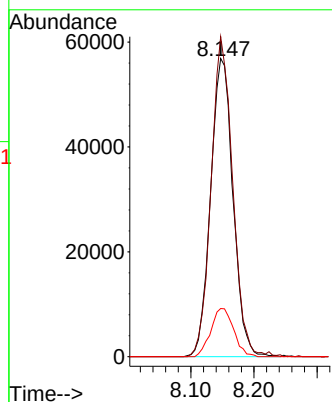
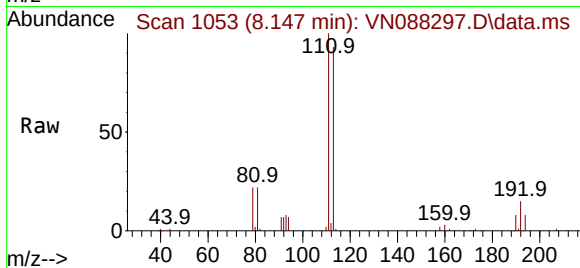
Tgt Ion:113 Resp: 139847

Ion Ratio Lower Upper

113 100

111 103.6 82.8 124.2

192 16.4 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.818 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088297.D

Acq: 17 Nov 2025 12:37

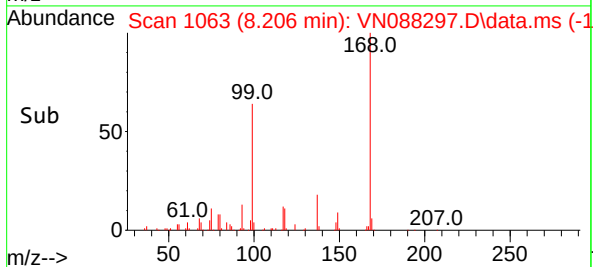
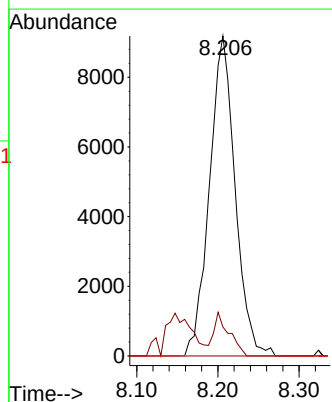
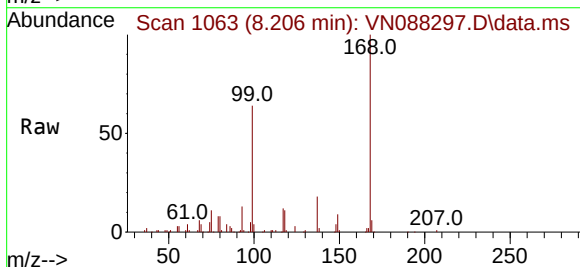
Tgt Ion: 75 Resp: 20197

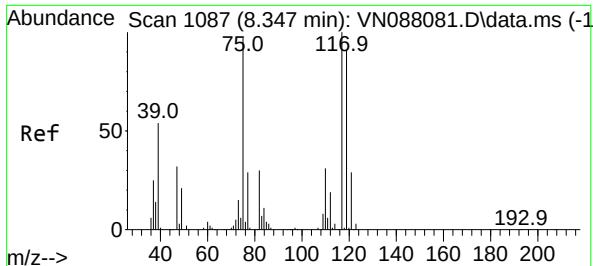
Ion Ratio Lower Upper

75 100

110 8.0 15.9 47.6#

77 0.0 24.4 36.6#

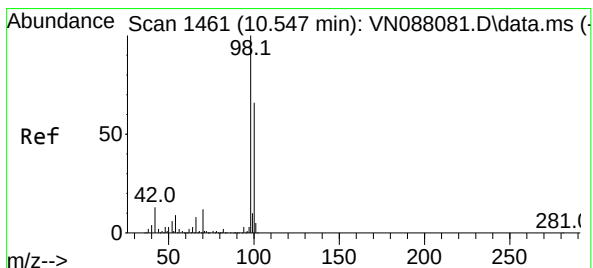
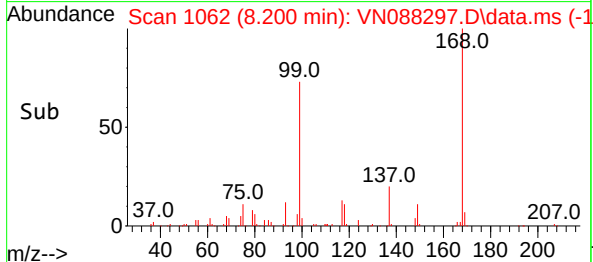
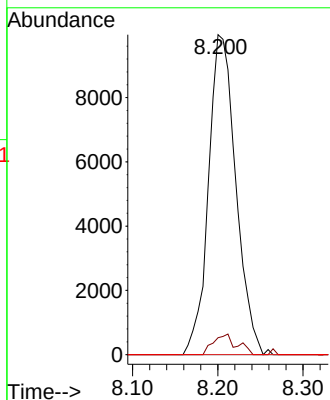
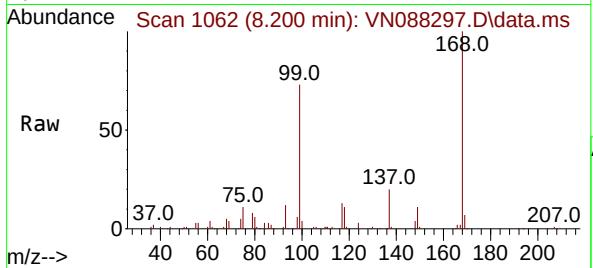




#38
Carbon Tetrachloride
Concen: 5.154 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

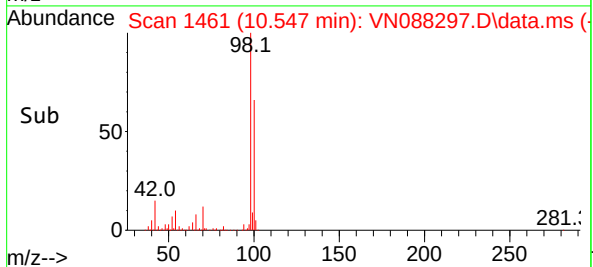
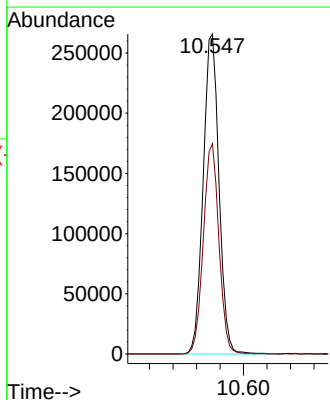
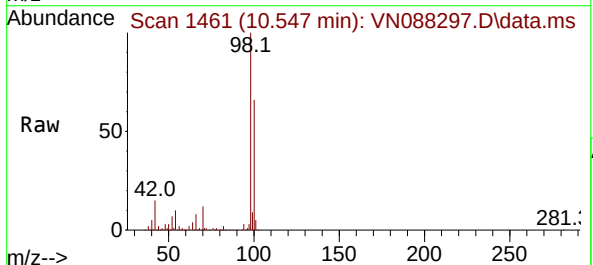
Instrument :
MSVOA_N
ClientSampleId :
IBLK

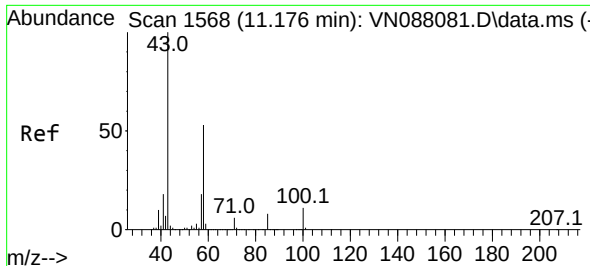
Tgt Ion:117 Resp: 22315
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 44.695 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 98 Resp: 494417
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2

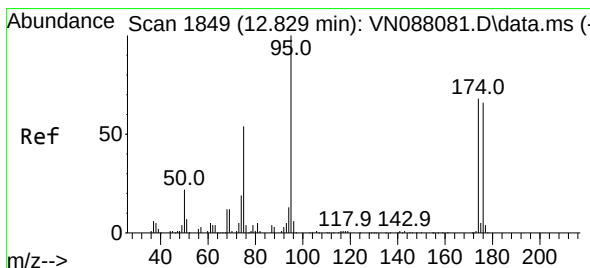
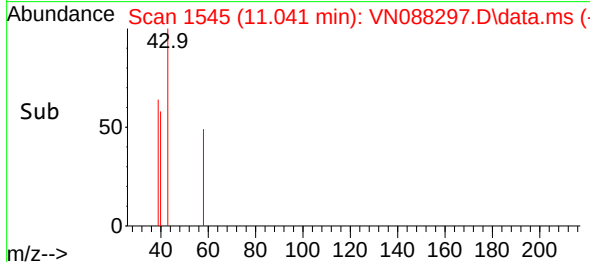
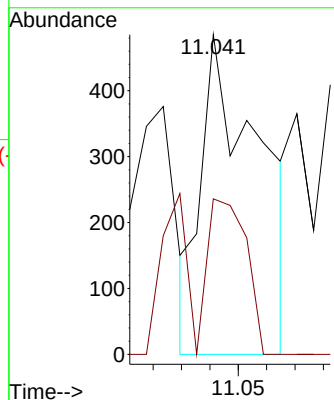
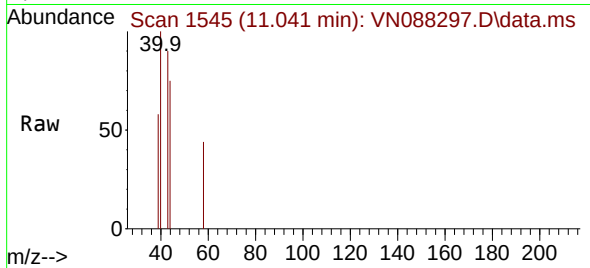




#59
2-Hexanone
Concen: 0.210 ug/l
RT: 11.041 min Scan# 11
Delta R.T. -0.135 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

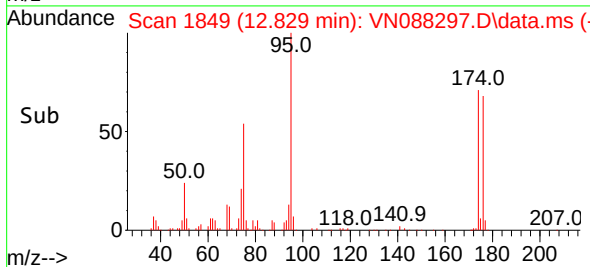
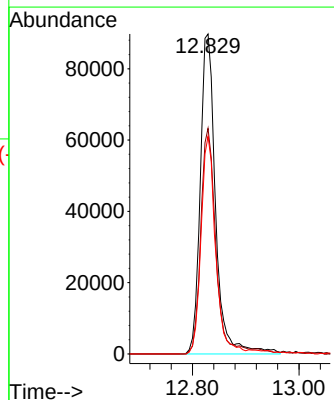
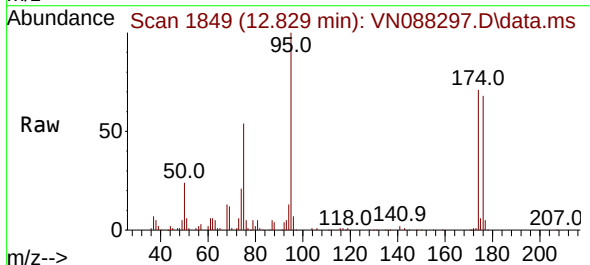
Instrument :
MSVOA_N
ClientSampleId :
IBLK

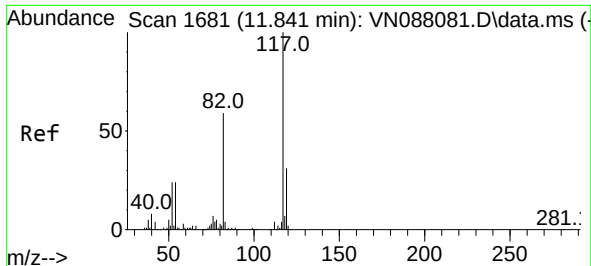
Tgt Ion: 43 Resp: 684
Ion Ratio Lower Upper
43 100
58 33.0 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 45.938 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion: 95 Resp: 179468
Ion Ratio Lower Upper
95 100
174 70.7 0.0 138.4
176 64.3 0.0 132.6

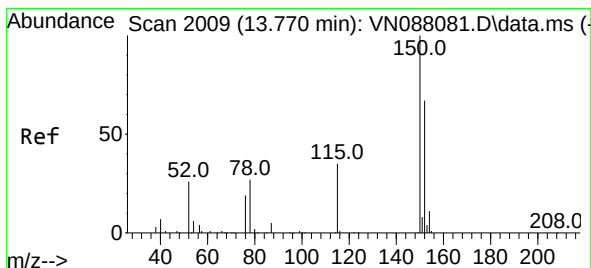
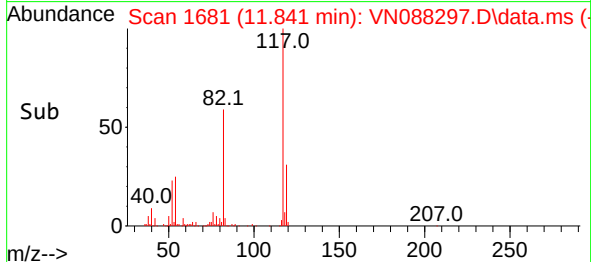
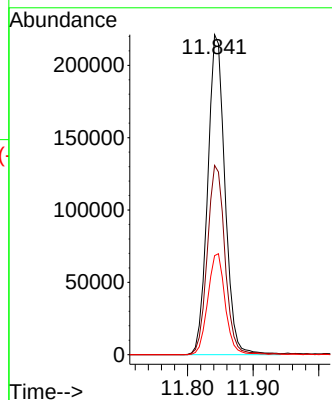
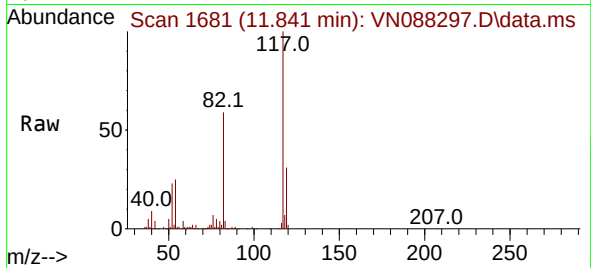




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

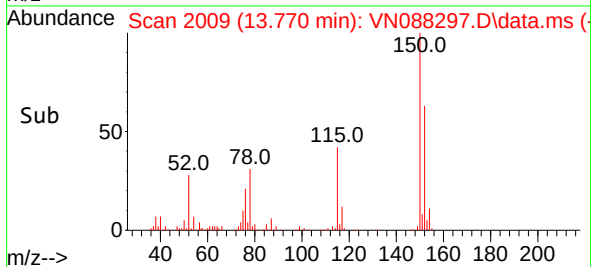
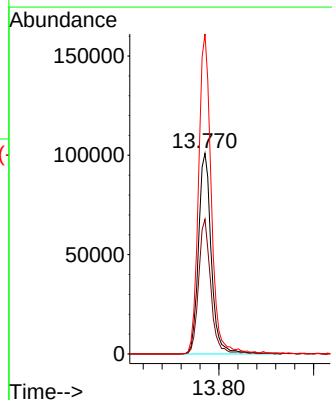
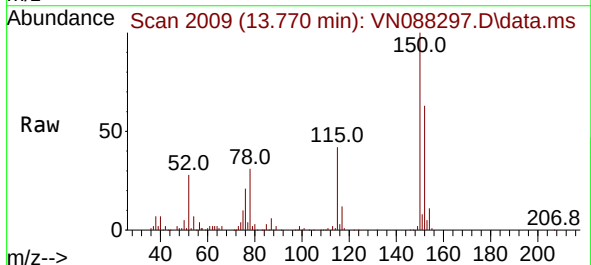
Instrument :
MSVOA_N
ClientSampleId :
IBLK

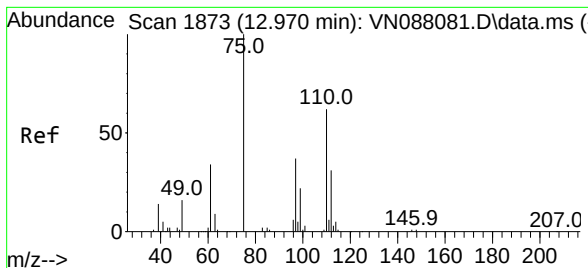
Tgt Ion:117 Resp: 405111
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.2
119 31.0 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088297.D
Acq: 17 Nov 2025 12:37

Tgt Ion:152 Resp: 189838
Ion Ratio Lower Upper
152 100
115 64.0 32.3 96.8
150 157.4 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.664 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088297.D

Acq: 17 Nov 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

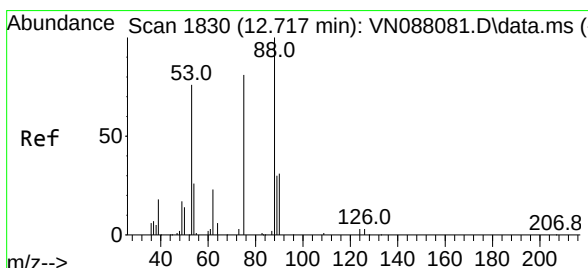
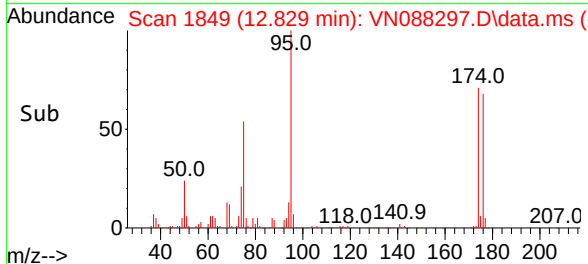
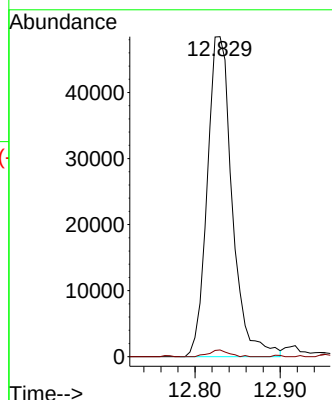
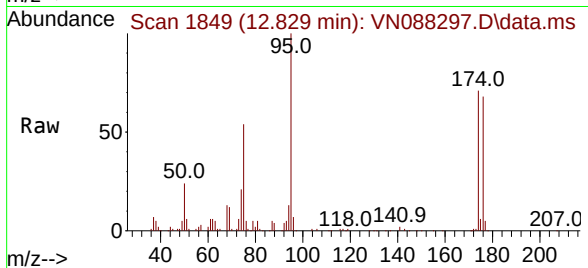
IBLK

Tgt Ion: 75 Resp: 98368

Ion Ratio Lower Upper

75 100

77 1.7 89.1 267.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.222 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN088297.D

Acq: 17 Nov 2025 12:37

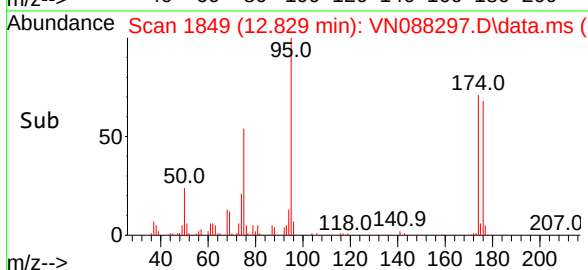
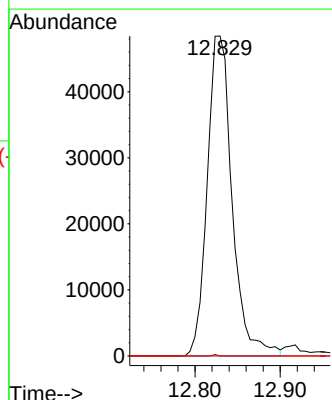
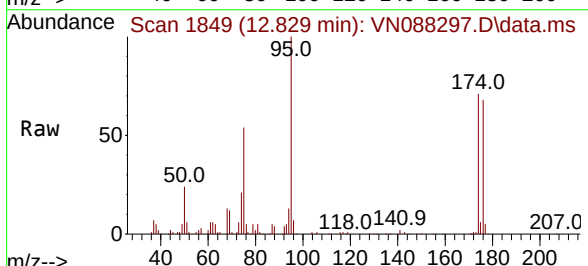
Tgt Ion: 75 Resp: 98368

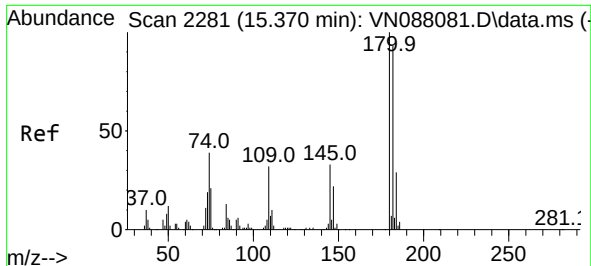
Ion Ratio Lower Upper

75 100

53 0.1 101.8 152.6#

89 0.0 35.6 53.4#

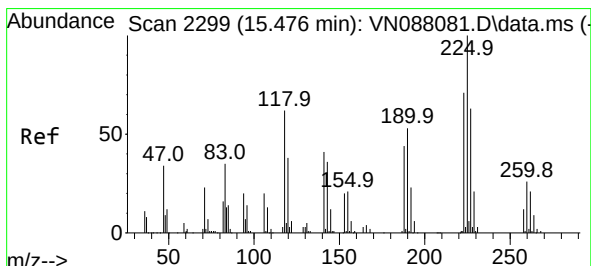
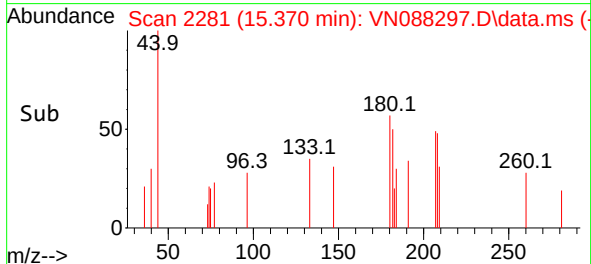
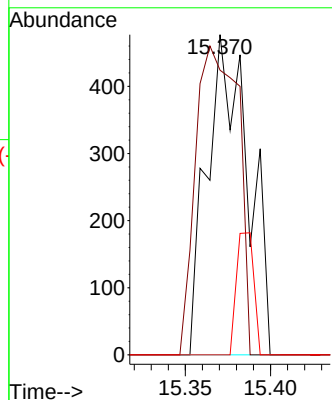
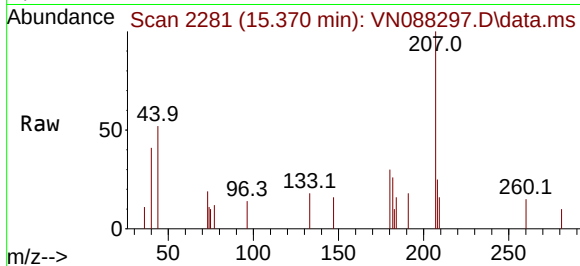




#93
 1,2,4-Trichlorobenzene
 Concen: 0.217 ug/l
 RT: 15.370 min Scan# 2281
 Delta R.T. 0.006 min
 Lab File: VN088297.D
 Acq: 17 Nov 2025 12:37

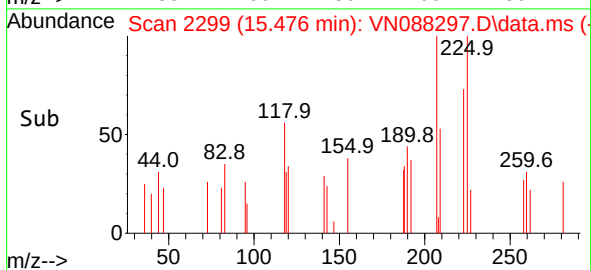
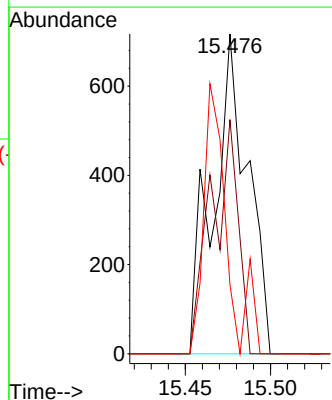
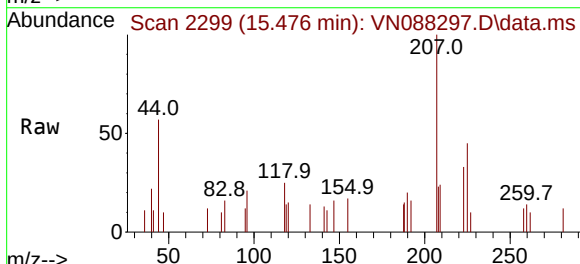
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

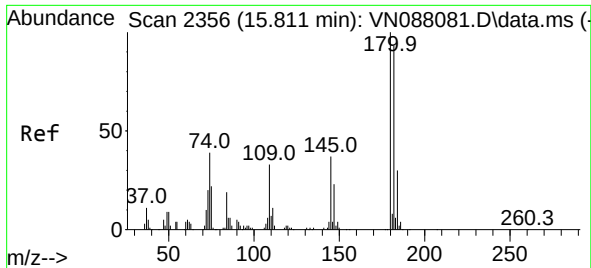
Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.7	47.6	142.9
145	0.0	16.5	49.5



#94
 Hexachlorobutadiene
 Concen: 0.732 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. -0.000 min
 Lab File: VN088297.D
 Acq: 17 Nov 2025 12:37

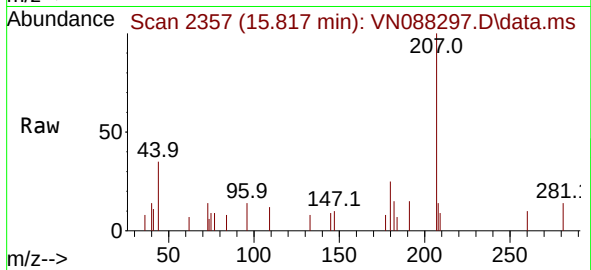
Tgt Ion	Ratio	Lower	Upper
225	100		
223	57.1	32.0	96.2
227	49.2	32.1	96.5





#96
 1,2,3-Trichlorobenzene
 Concen: 0.410 ug/l
 RT: 15.817 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN088297.D
 Acq: 17 Nov 2025 12:37

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:180 Resp: 1447
 Ion Ratio Lower Upper
 180 100
 182 56.5 46.8 140.3
 145 8.8 17.3 52.0#

