

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092425\
 Data File : VN087939.D
 Acq On : 24 Sep 2025 11:25
 Operator : JC\MD
 Sample : Q3155-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Sep 25 03:08:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

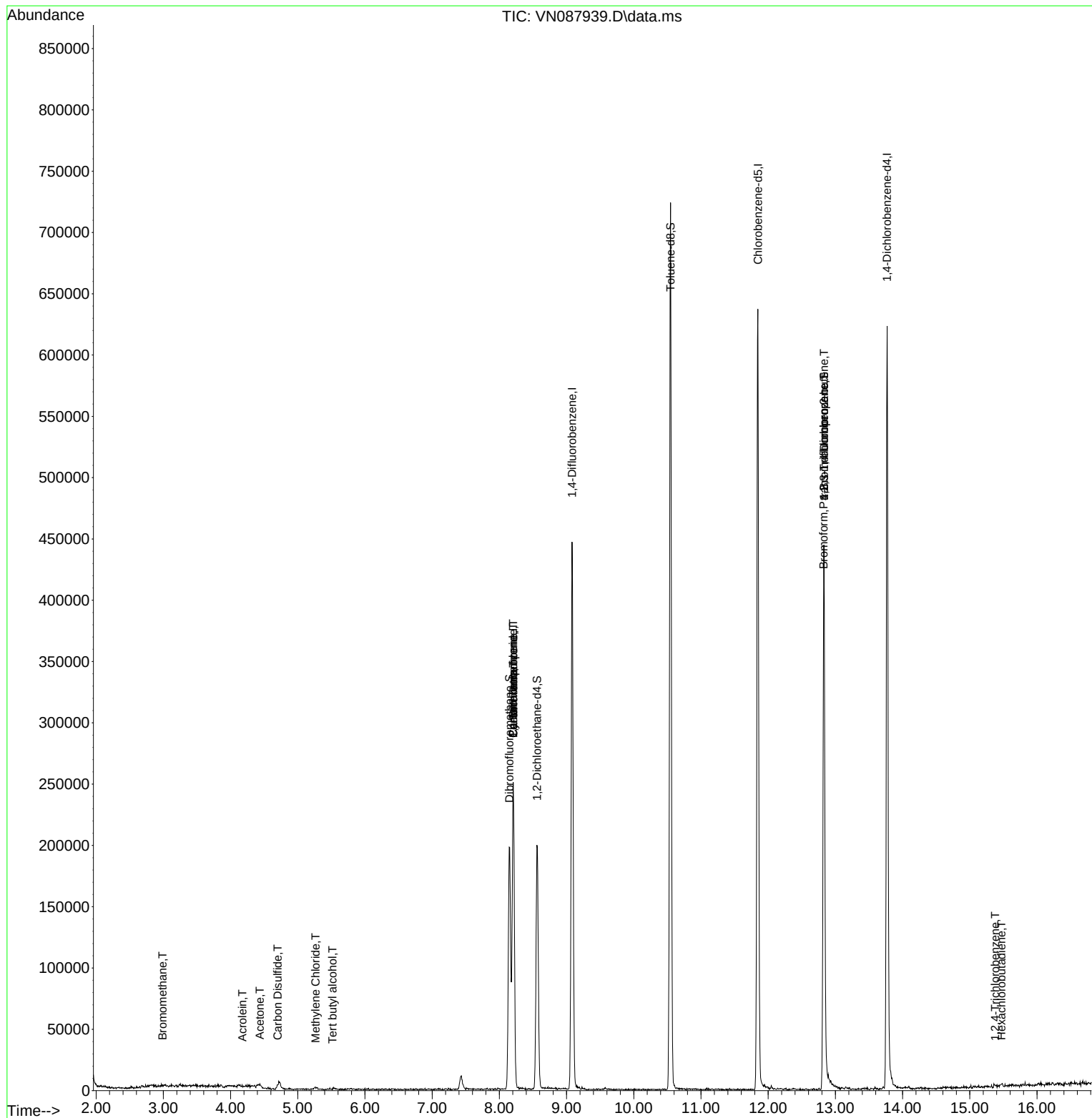
Internal Standards						
1) Pentafluorobenzene	8.206	168	174992	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	380143	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	371356	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	173790	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	169132	57.431	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.860%			
35) Dibromofluoromethane	8.147	113	145521	52.724	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.440%			
50) Toluene-d8	10.547	98	482202	49.681	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.360%			
62) 4-Bromofluorobenzene	12.829	95	156995	45.252	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.500%			
Target Compounds					Qvalue	
5) Bromomethane	2.989	94	477	0.363	ug/l #	47
11) Tert butyl alcohol	5.518	59	137	0.323	ug/l #	71
13) Acrolein	4.177	56	165	0.303	ug/l #	45
16) Acetone	4.436	43	3862	3.187	ug/l	93
17) Carbon Disulfide	4.700	76	1224	0.213	ug/l #	76
20) Methylene Chloride	5.265	84	1482	0.604	ug/l #	79
31) Cyclohexane	8.206	56	5180	1.569	ug/l #	57
36) 1,1-Dichloropropene	8.206	75	16428	4.950	ug/l #	45
38) Carbon Tetrachloride	8.206	117	21145	5.552	ug/l #	21
71) Bromoform	12.823	173	550	0.238	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	90482	26.412	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	90482	73.342	ug/l #	9
93) 1,2,4-Trichlorobenzene	15.376	180	946	0.297	ug/l #	84
94) Hexachlorobutadiene	15.470	225	709	0.605	ug/l #	31

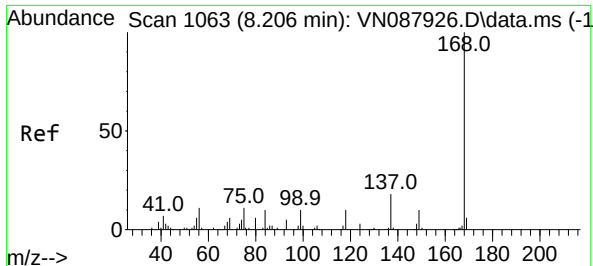
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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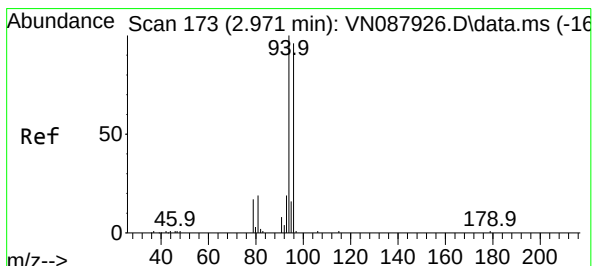
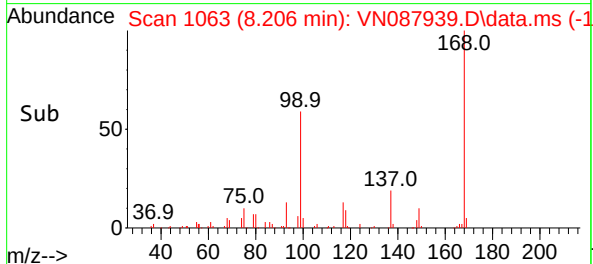
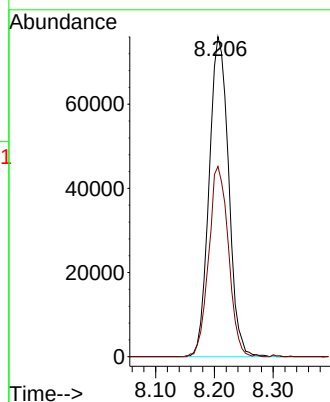
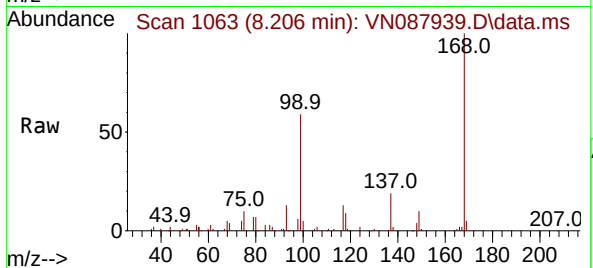




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

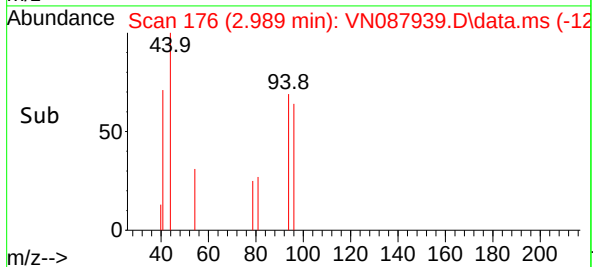
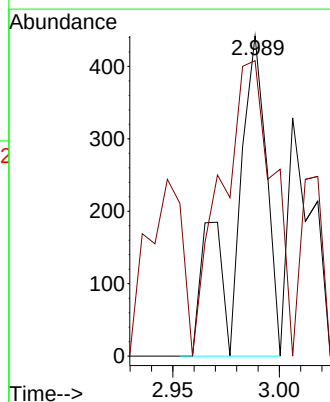
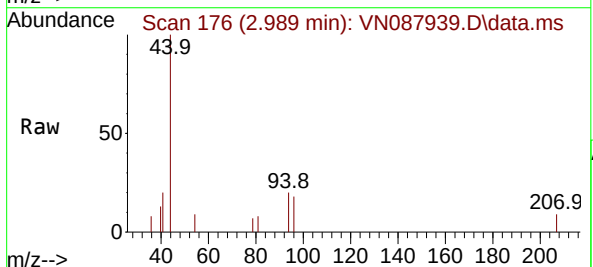
Instrument :
MSVOA_N
ClientSampleId :
TB

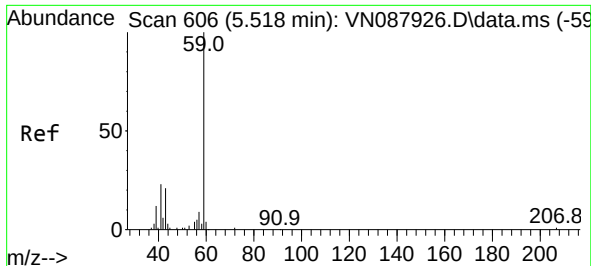
Tgt Ion:168 Resp: 174992
Ion Ratio Lower Upper
168 100
99 59.4 52.2 78.2



#5
Bromomethane
Concen: 0.363 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 94 Resp: 477
Ion Ratio Lower Upper
94 100
96 44.6 76.8 115.2#

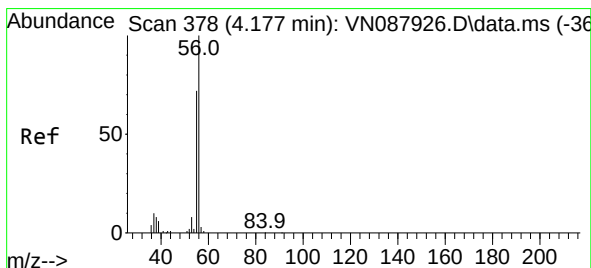
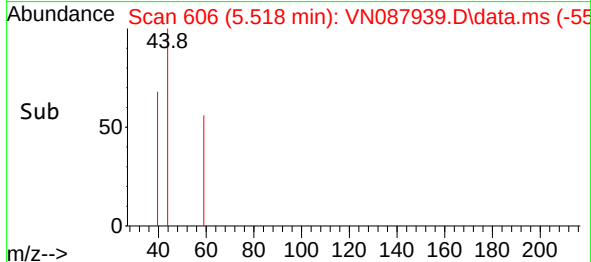
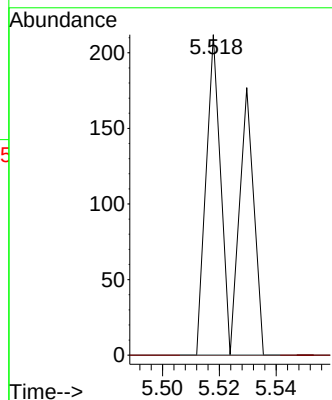
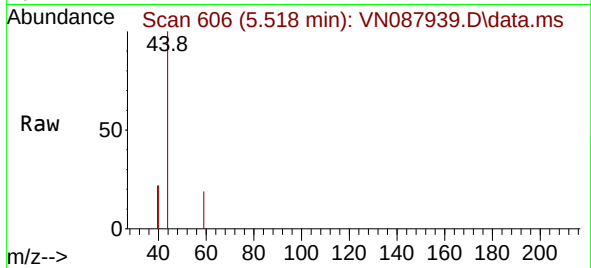




#11
Tert butyl alcohol
Concen: 0.323 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

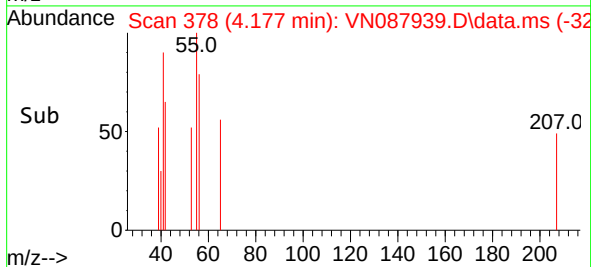
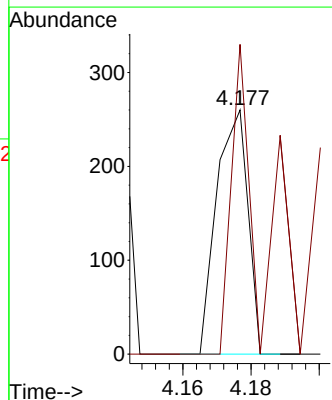
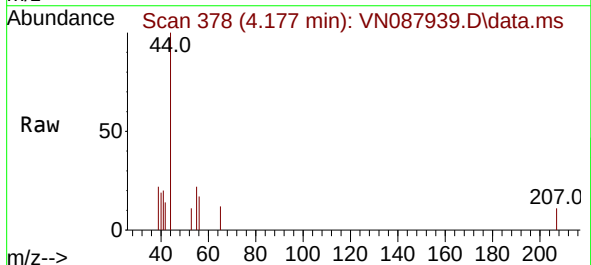
Instrument :
MSVOA_N
ClientSampleId :
TB

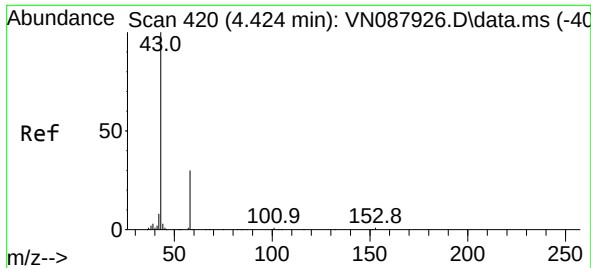
Tgt Ion: 59 Resp: 137
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#13
Acrolein
Concen: 0.303 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 56 Resp: 165
Ion Ratio Lower Upper
56 100
55 120.6 59.3 88.9#

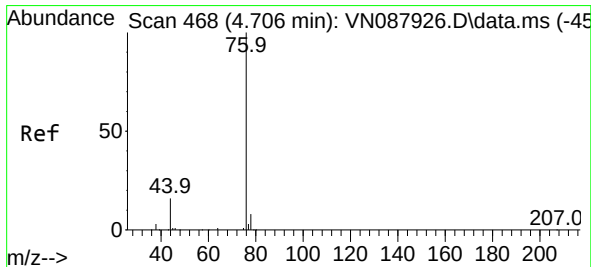
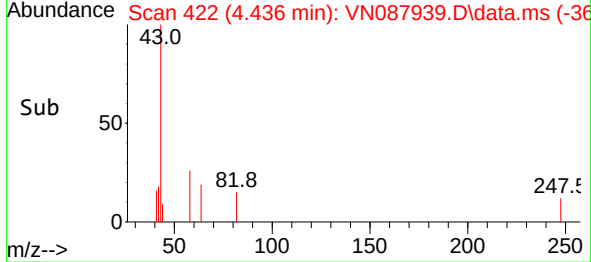
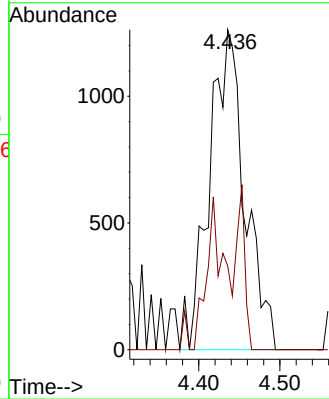
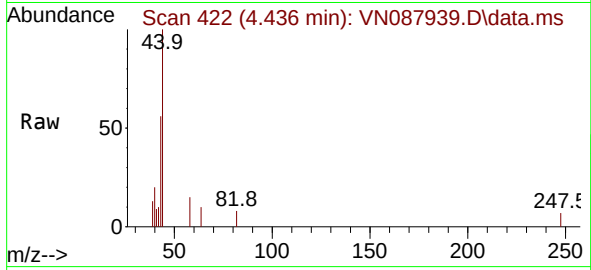




#16
Acetone
Concen: 3.187 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

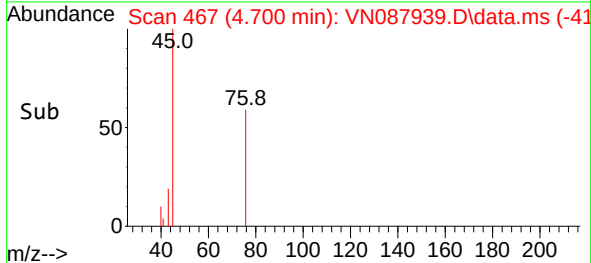
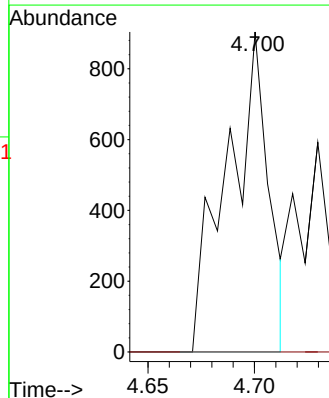
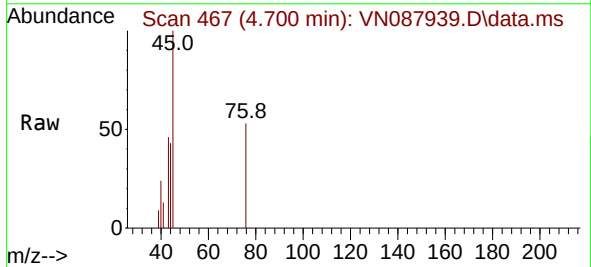
Instrument :
MSVOA_N
ClientSampleId :
TB

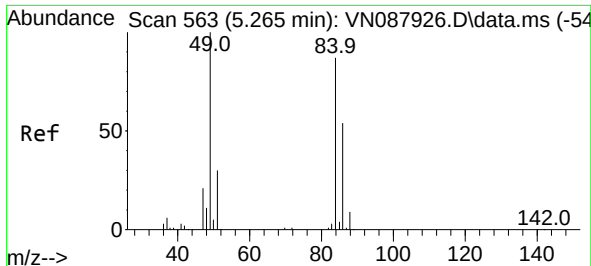
Tgt Ion: 43 Resp: 3862
Ion Ratio Lower Upper
43 100
58 26.1 24.1 36.1



#17
Carbon Disulfide
Concen: 0.213 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.006 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 76 Resp: 1224
Ion Ratio Lower Upper
76 100
78 0.0 6.7 10.1#

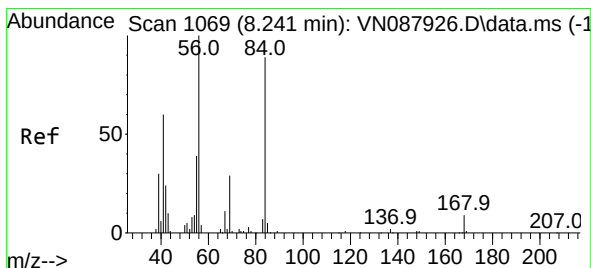
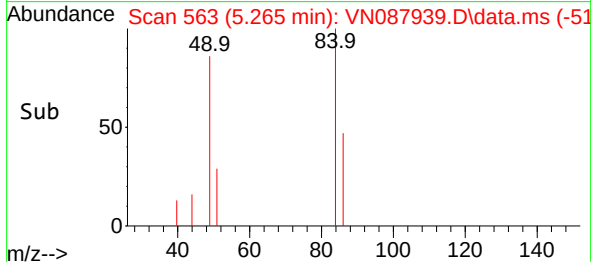
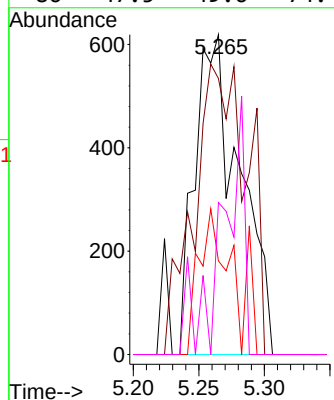
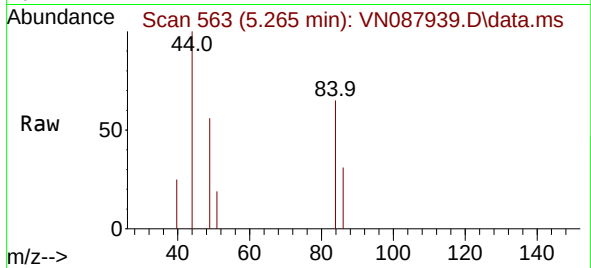




#20
Methylene Chloride
Concen: 0.604 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

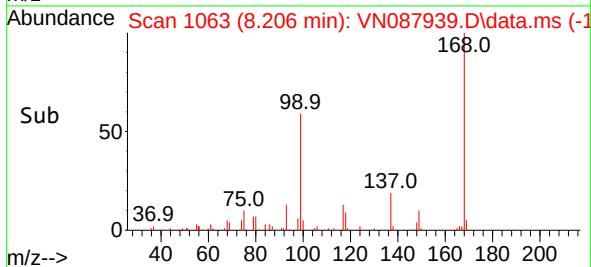
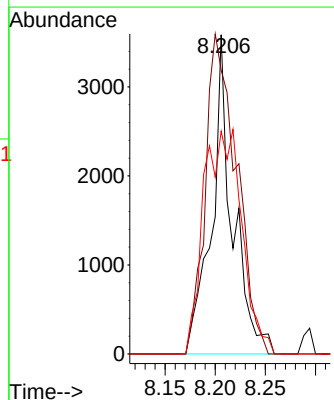
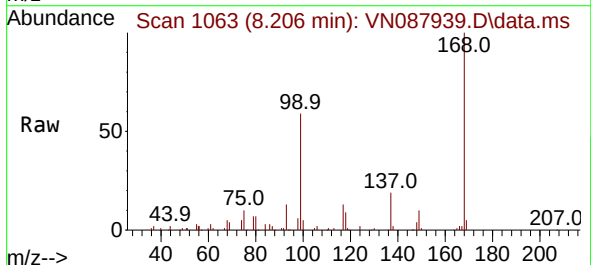
Instrument :
MSVOA_N
ClientSampleId :
TB

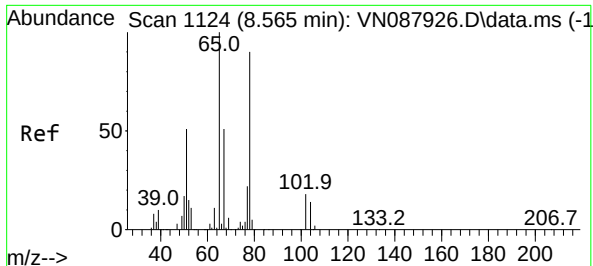
Tgt Ion:	84	Resp:	1482
Ion	Ratio	Lower	Upper
84	100		
49	86.3	92.1	138.1#
51	29.2	27.7	41.5
86	47.5	49.6	74.4#



#31
Cyclohexane
Concen: 1.569 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion:	56	Resp:	5180
Ion	Ratio	Lower	Upper
56	100		
69	88.9	23.4	35.0#
84	69.8	70.8	106.2#

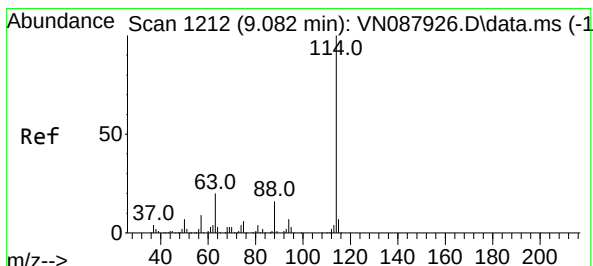
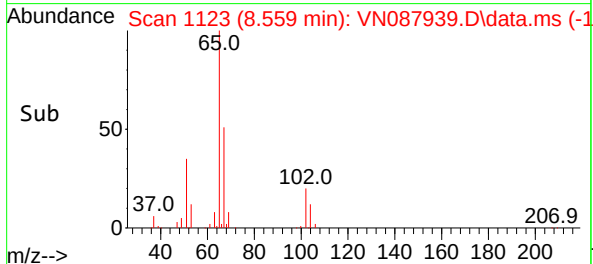
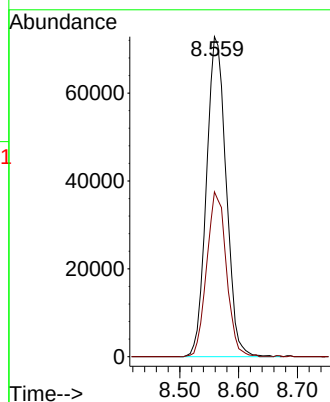
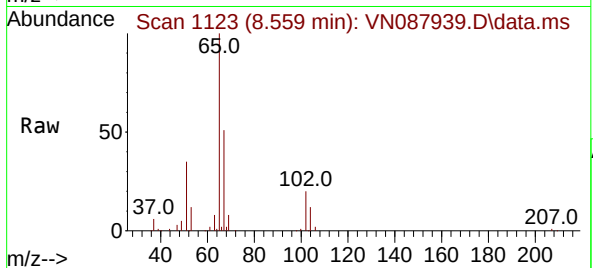




#33
 1,2-Dichloroethane-d4
 Concen: 57.431 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.006 min
 Lab File: VN087939.D
 Acq: 24 Sep 2025 11:25

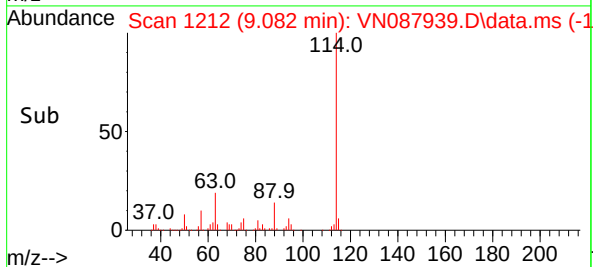
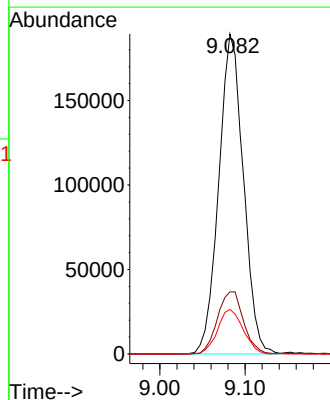
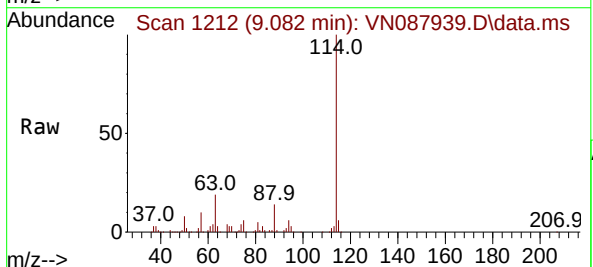
Instrument :
 MSVOA_N
 ClientSampleId :
 TB

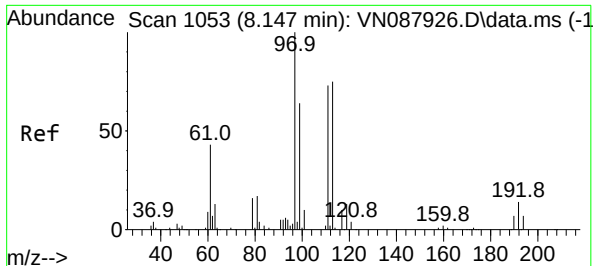
Tgt Ion: 65 Resp: 169132
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087939.D
 Acq: 24 Sep 2025 11:25

Tgt Ion: 114 Resp: 380143
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 13.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.724 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.000 min

Lab File: VN087939.D

Acq: 24 Sep 2025 11:25

Instrument :

MSVOA_N

ClientSampleId :

TB

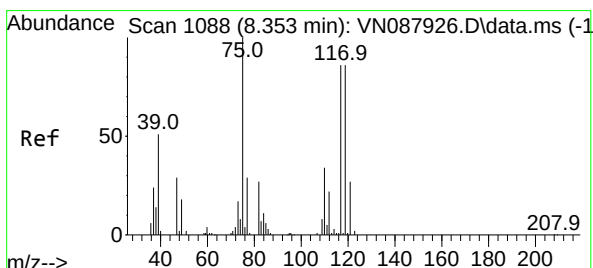
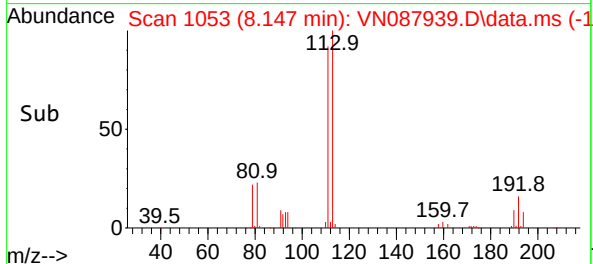
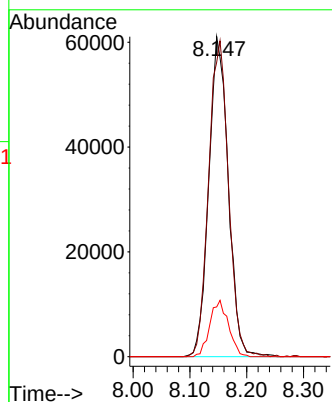
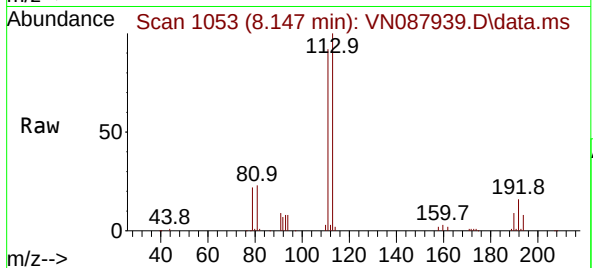
Tgt Ion:113 Resp: 145521

Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.2

192 16.9 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.950 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087939.D

Acq: 24 Sep 2025 11:25

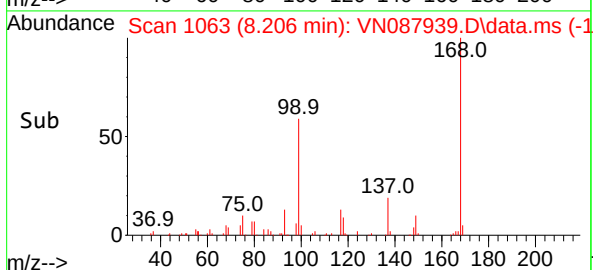
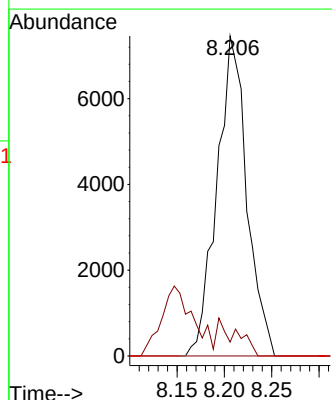
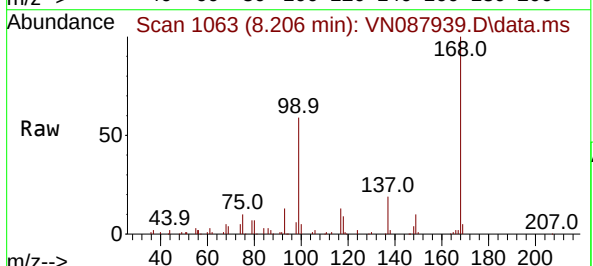
Tgt Ion: 75 Resp: 16428

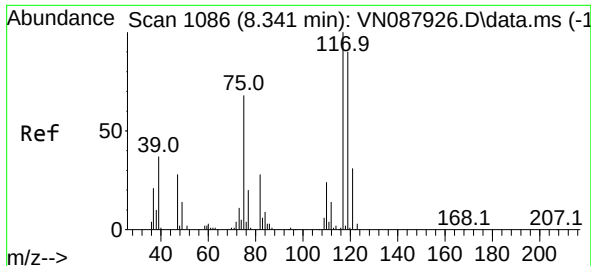
Ion Ratio Lower Upper

75 100

110 2.8 17.1 51.3#

77 0.0 24.8 37.2#

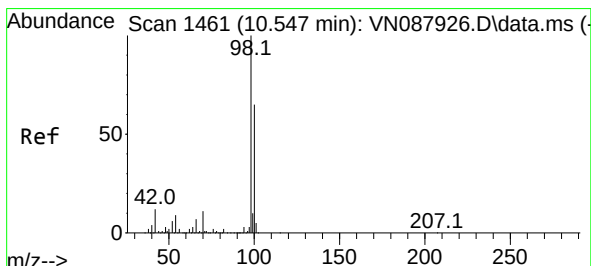
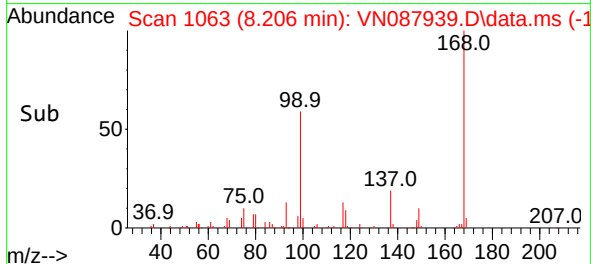
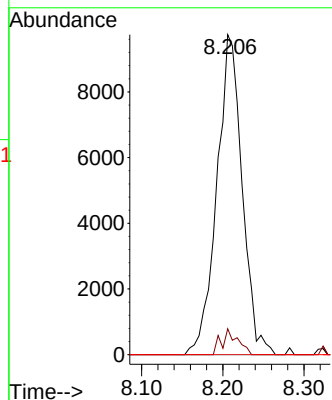
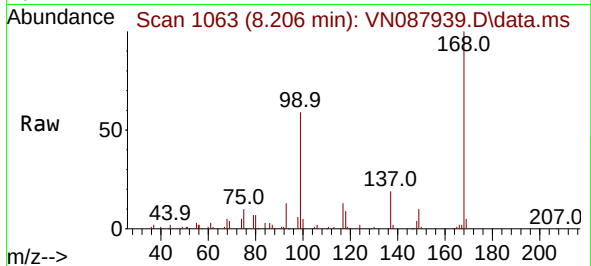




#38
Carbon Tetrachloride
Concen: 5.552 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

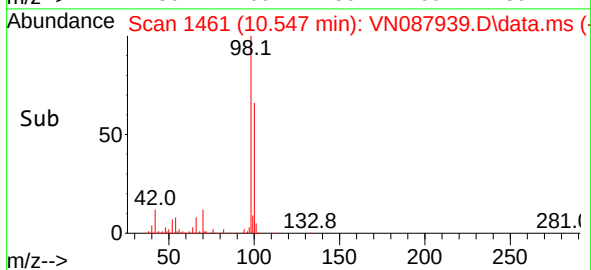
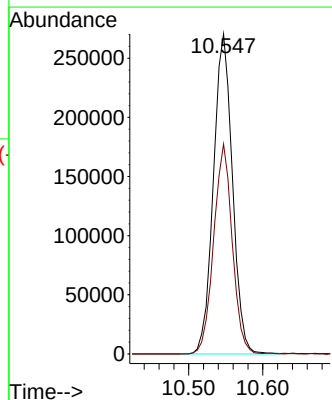
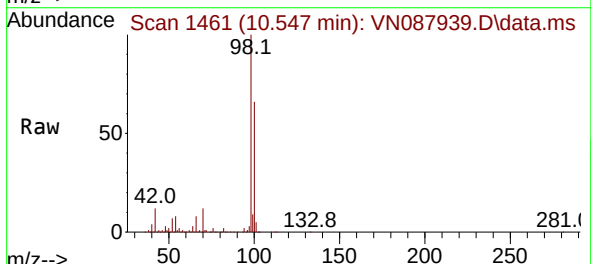
Instrument :
MSVOA_N
ClientSampleId :
TB

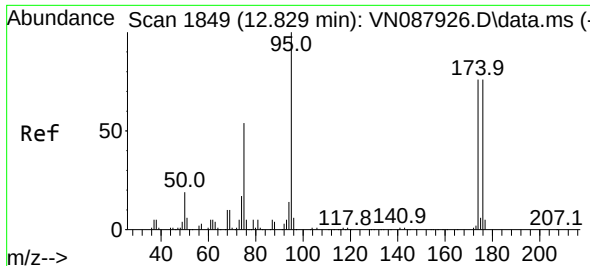
Tgt Ion:117 Resp: 21145
Ion Ratio Lower Upper
117 100
119 8.1 72.1 108.1#
121 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 49.681 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 98 Resp: 482202
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5

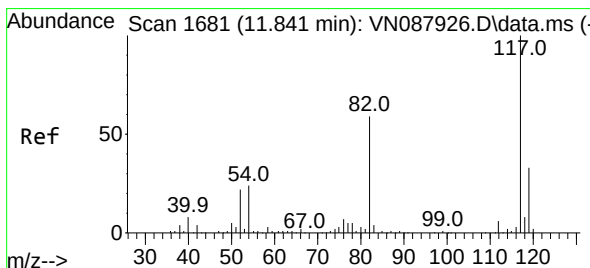
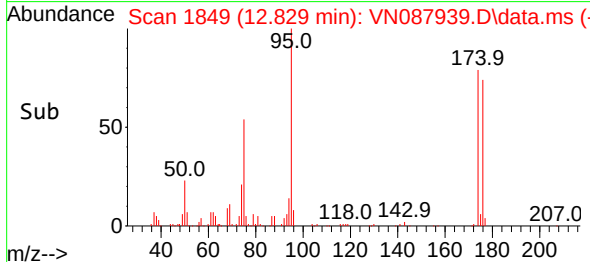
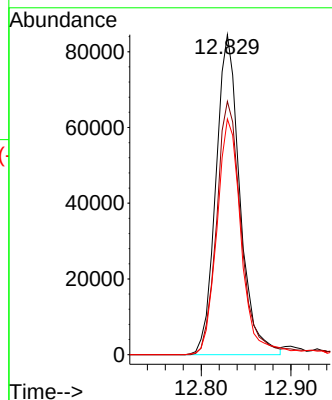
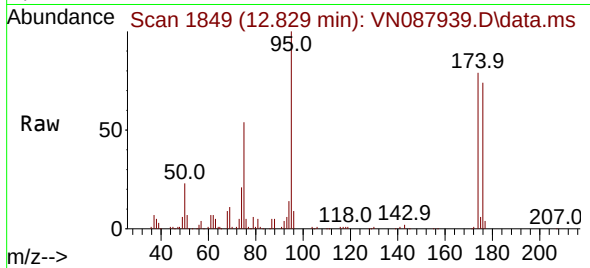




#62
4-Bromofluorobenzene
Concen: 45.252 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

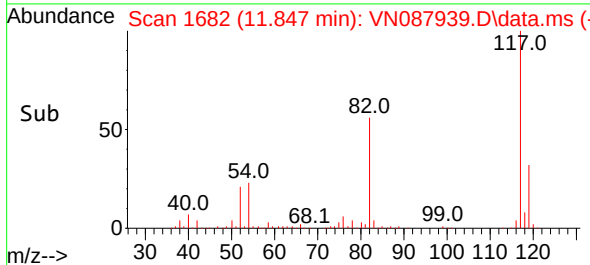
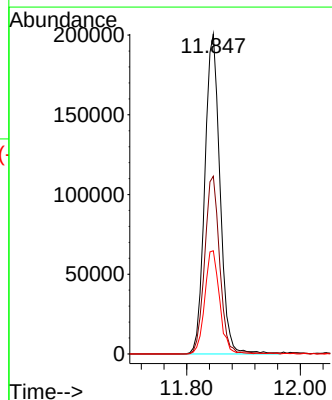
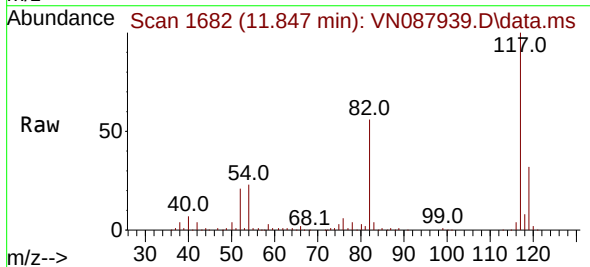
Instrument :
MSVOA_N
ClientSampleId :
TB

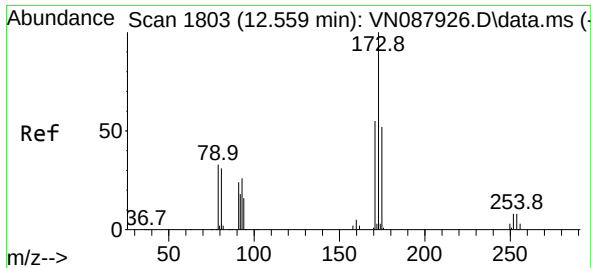
Tgt Ion: 95 Resp: 156995
Ion Ratio Lower Upper
95 100
174 82.1 0.0 159.2
176 75.1 0.0 152.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 117 Resp: 371356
Ion Ratio Lower Upper
117 100
82 55.6 47.0 70.4
119 32.2 26.1 39.1

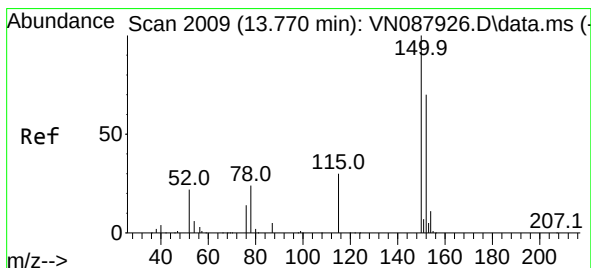
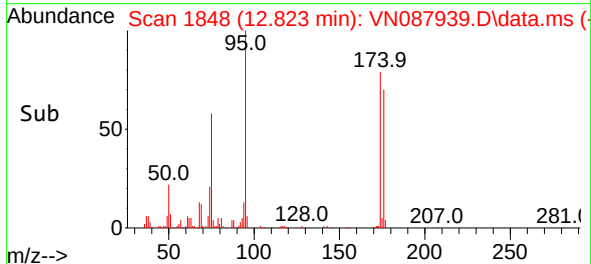
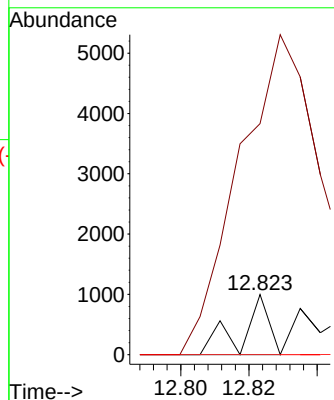
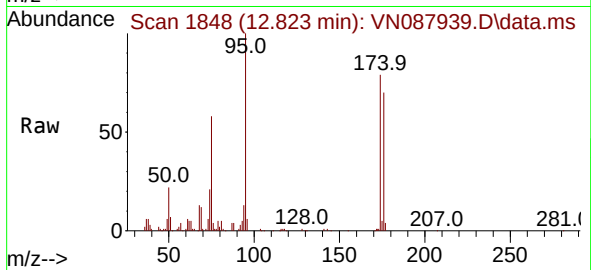




#71
Bromoform
Concen: 0.238 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

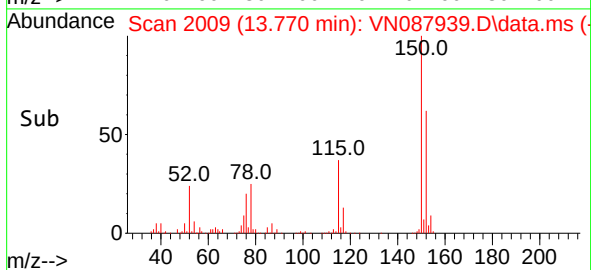
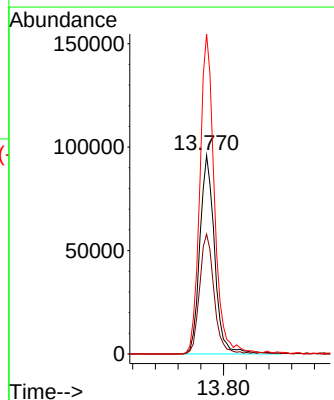
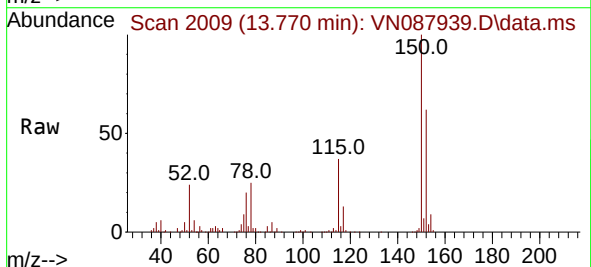
Instrument :
MSVOA_N
ClientSampleId :
TB

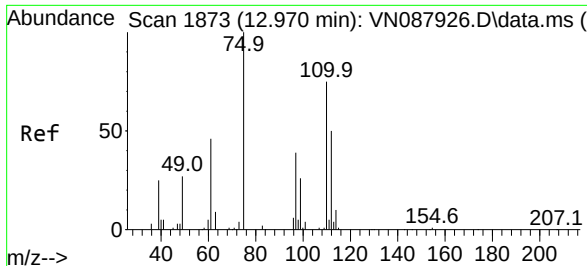
Tgt Ion:173 Resp: 550
Ion Ratio Lower Upper
173 100
175 1263.3 23.7 71.1#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion:152 Resp: 173790
Ion Ratio Lower Upper
152 100
115 59.2 29.9 89.7
150 158.4 0.0 335.0

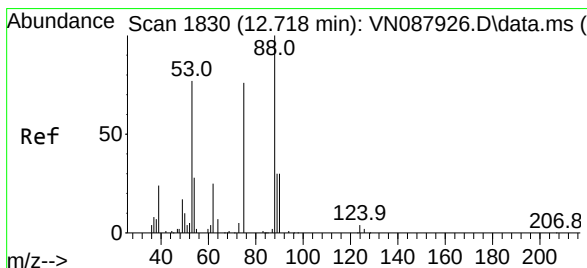
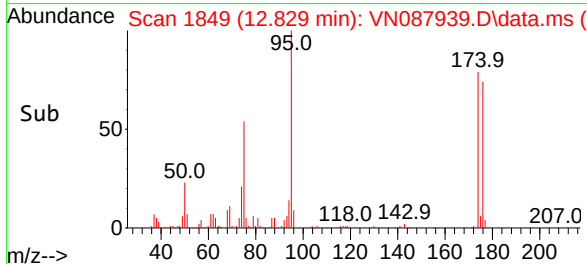
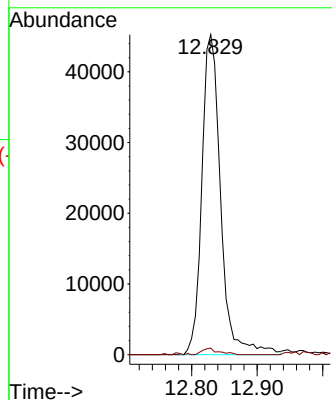
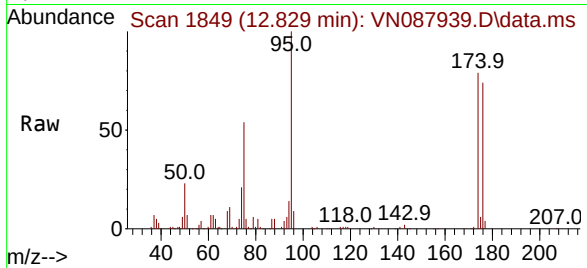




#76
1,2,3-Trichloropropane
Concen: 26.412 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

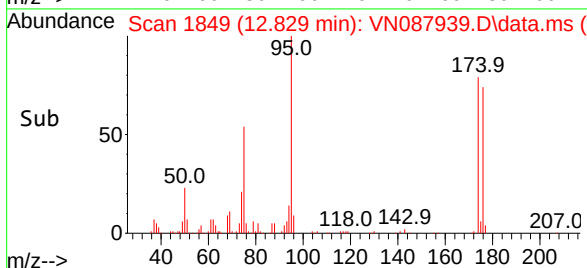
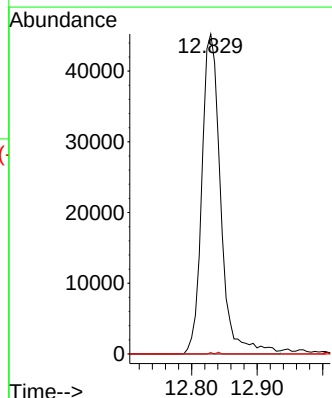
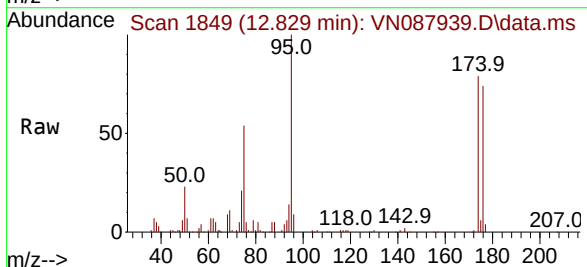
Instrument :
MSVOA_N
ClientSampleId :
TB

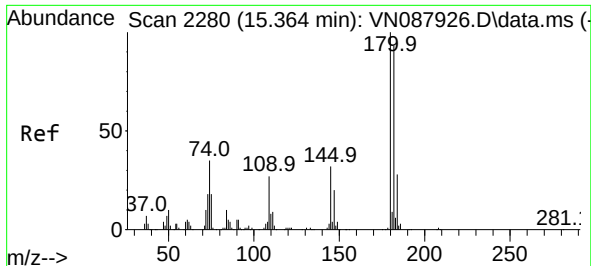
Tgt Ion: 75 Resp: 90482
Ion Ratio Lower Upper
75 100
77 1.8 89.5 268.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.342 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087939.D
Acq: 24 Sep 2025 11:25

Tgt Ion: 75 Resp: 90482
Ion Ratio Lower Upper
75 100
53 0.1 82.0 123.0#
89 0.1 36.1 54.1#

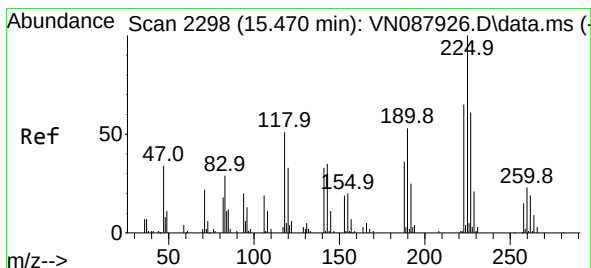
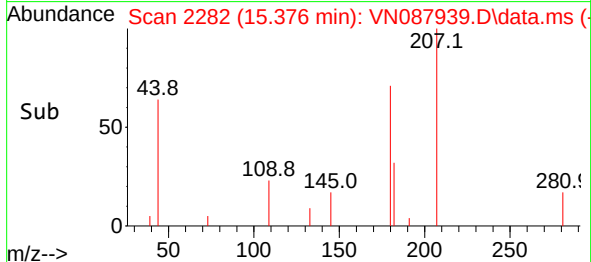
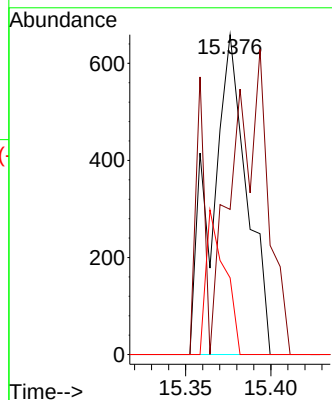
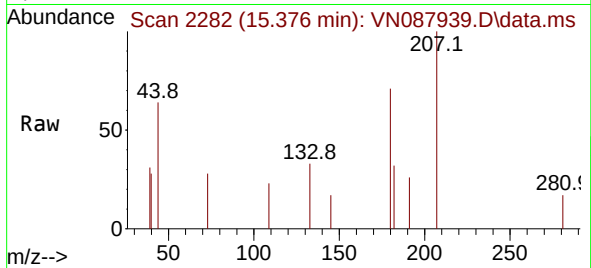




#93
 1,2,4-Trichlorobenzene
 Concen: 0.297 ug/l
 RT: 15.376 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN087939.D
 Acq: 24 Sep 2025 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Tgt Ion:180 Resp: 946
 Ion Ratio Lower Upper
 180 100
 182 94.1 48.5 145.5
 145 0.0 15.9 47.6#



#94
 Hexachlorobutadiene
 Concen: 0.605 ug/l
 RT: 15.470 min Scan# 2298
 Delta R.T. -0.000 min
 Lab File: VN087939.D
 Acq: 24 Sep 2025 11:25

Tgt Ion:225 Resp: 709
 Ion Ratio Lower Upper
 225 100
 223 10.2 31.8 95.4#
 227 9.6 31.9 95.9#

