

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088259.D
 Acq On : 11 Nov 2025 15:47
 Operator : JC\MD
 Sample : Q3601-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Nov 12 01:17:48 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)

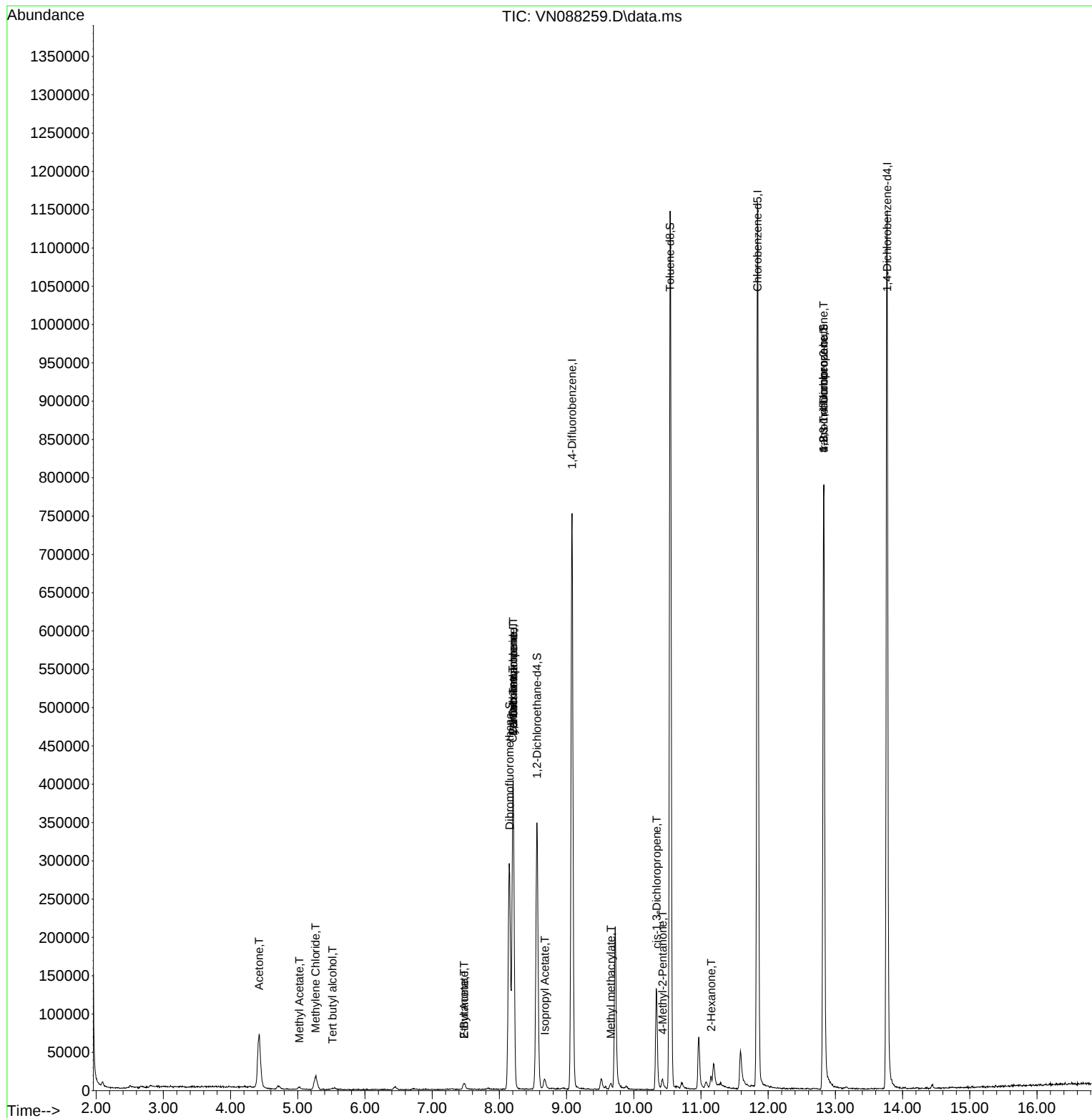
Internal Standards						
1) Pentafluorobenzene	8.206	168	266691	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	611385	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	618225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	294183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	288204	62.495	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 124.980%		
35) Dibromofluoromethane	8.153	113	208730	50.819	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.640%		
50) Toluene-d8	10.541	98	763629	48.251	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.500%		
62) 4-Bromofluorobenzene	12.823	95	297214	53.176	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 106.360%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	3039	3.825	ug/l #	86
16) Acetone	4.424	43	140628	60.699	ug/l	100
18) Methyl Acetate	5.024	43	6626	1.397	ug/l #	75
20) Methylene Chloride	5.265	84	12626	3.247	ug/l	96
25) 2-Butanone	7.477	43	15889	5.204	ug/l	95
31) Cyclohexane	8.200	56	8215	1.273	ug/l #	25
36) 1,1-Dichloropropene	8.206	75	26129	4.357	ug/l #	52
37) Ethyl Acetate	7.477	43	15889	2.053	ug/l #	72
38) Carbon Tetrachloride	8.206	117	30291	4.890	ug/l #	13
43) Isopropyl Acetate	8.677	43	15850	1.333	ug/l #	92
48) Methyl methacrylate	9.659	41	1424	0.259	ug/l #	37
51) 4-Methyl-2-Pentanone	10.429	43	13055	1.856	ug/l	91
54) cis-1,3-Dichloropropene	10.341	75	23508	3.161	ug/l #	65
59) 2-Hexanone	11.153	43	13259	2.841	ug/l #	26
76) 1,2,3-Trichloropropane	12.823	75	172887	25.705	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	172887	71.704	ug/l #	1

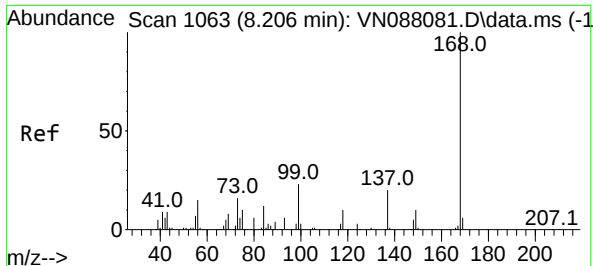
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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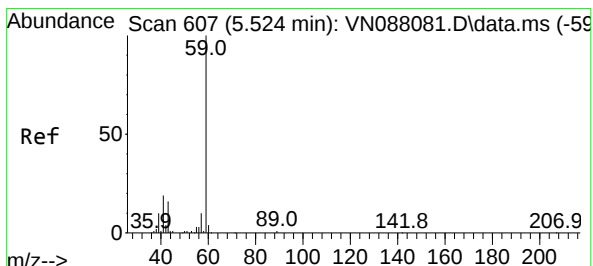
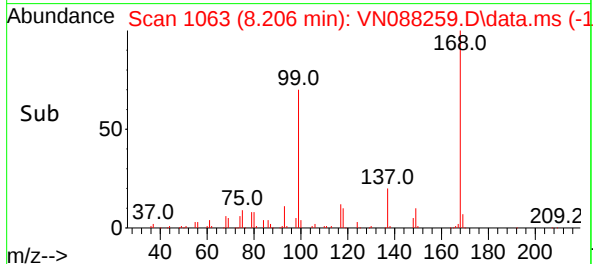
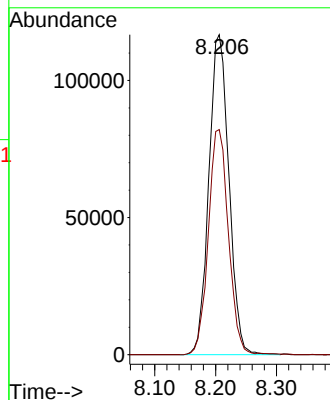
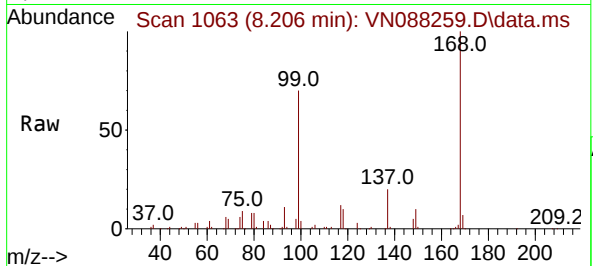




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

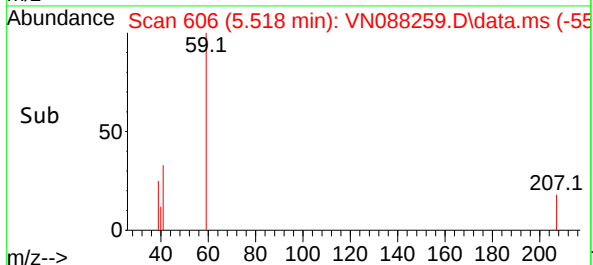
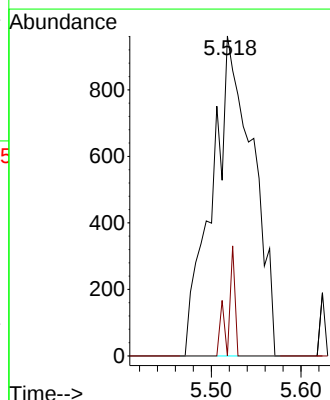
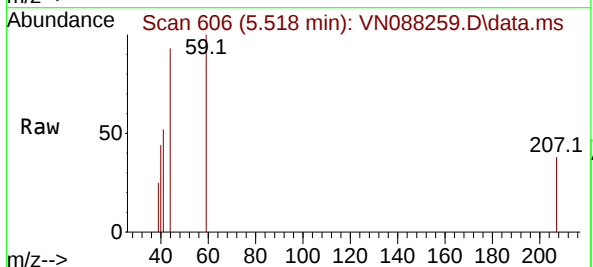
Instrument :
MSVOA_N
ClientSampleId :
TP-4

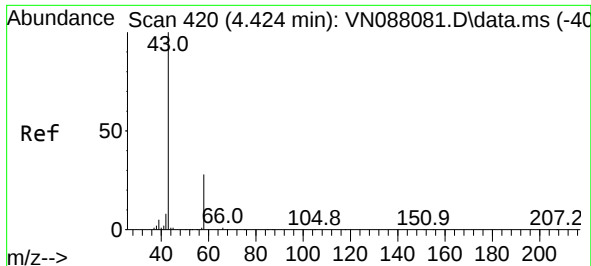
Tgt Ion:168 Resp: 266691
Ion Ratio Lower Upper
168 100
99 70.4 57.2 85.8



#11
Tert butyl alcohol
Concen: 3.825 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 59 Resp: 3039
Ion Ratio Lower Upper
59 100
57 5.8 9.0 13.4#

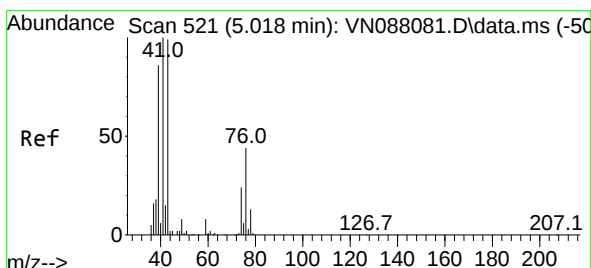
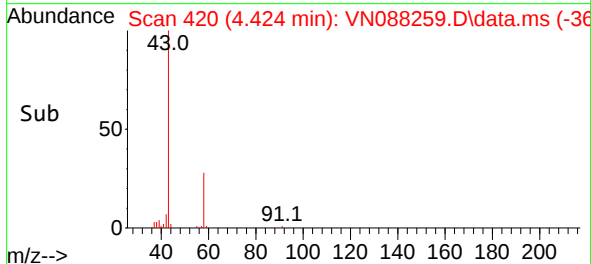
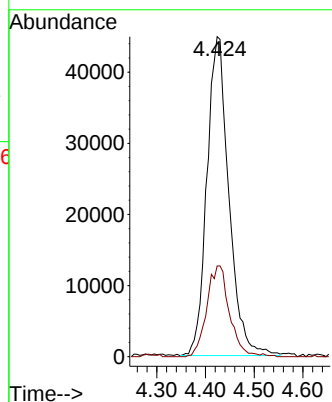
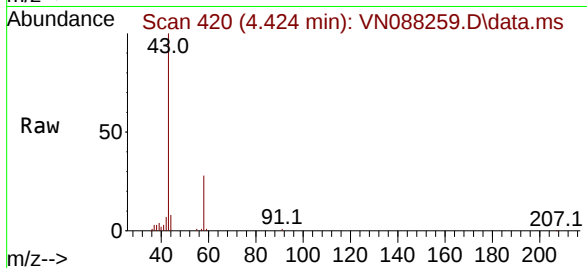




#16
Acetone
Concen: 60.699 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

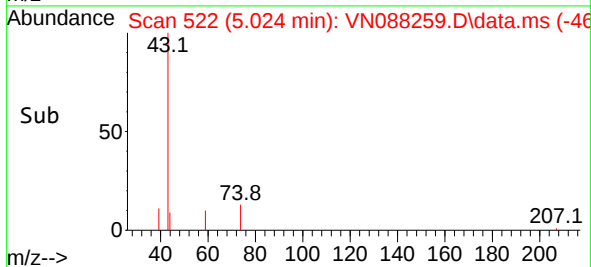
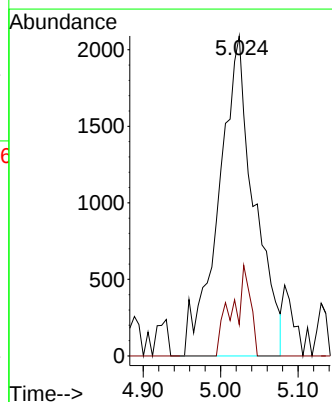
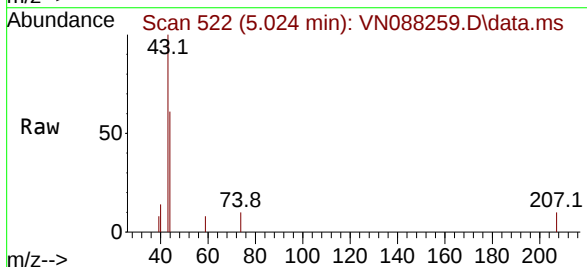
Instrument :
MSVOA_N
ClientSampleId :
TP-4

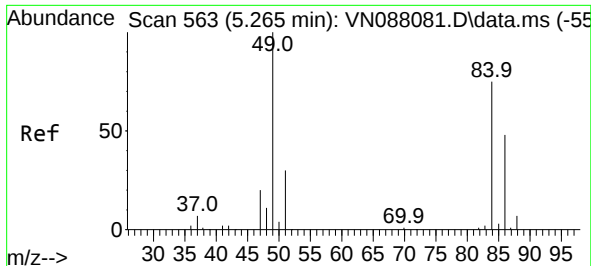
Tgt Ion: 43 Resp: 140628
Ion Ratio Lower Upper
43 100
58 28.5 22.6 33.8



#18
Methyl Acetate
Concen: 1.397 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 43 Resp: 6626
Ion Ratio Lower Upper
43 100
74 10.1 17.6 26.4#

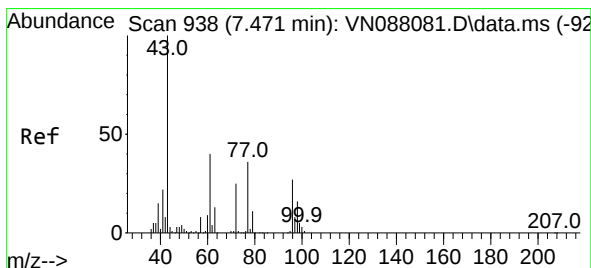
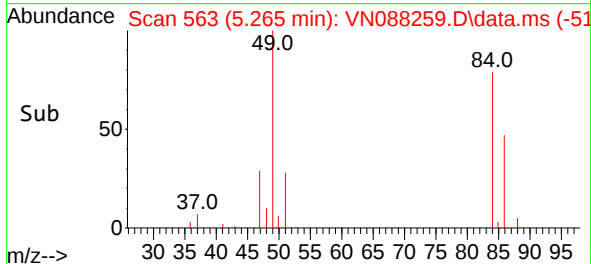
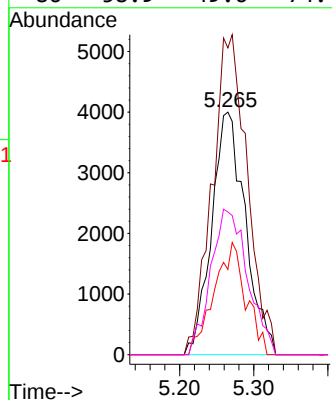
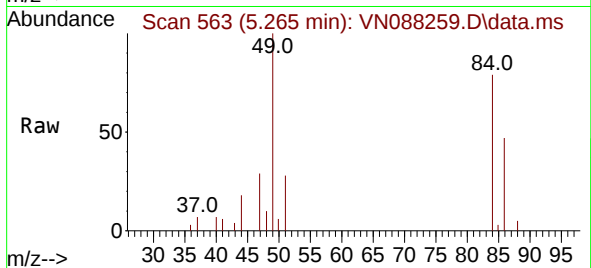




#20
Methylene Chloride
Concen: 3.247 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

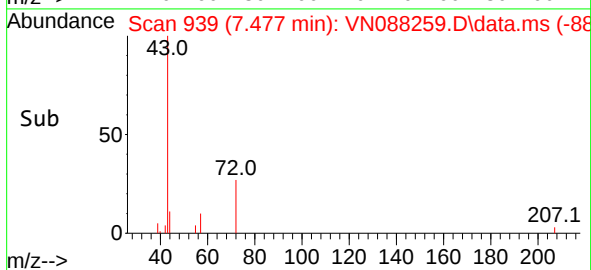
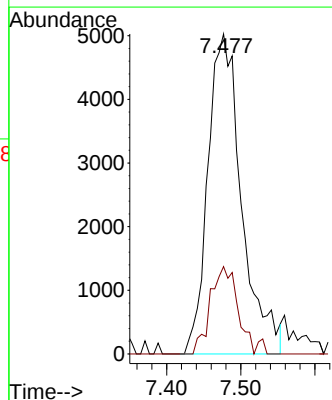
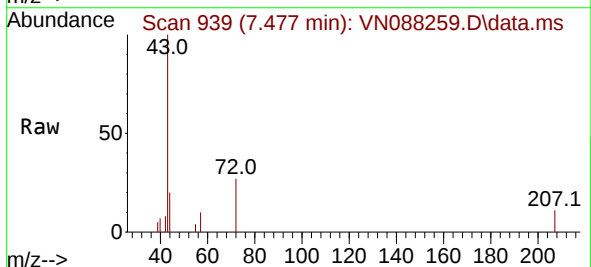
Instrument :
MSVOA_N
ClientSampleId :
TP-4

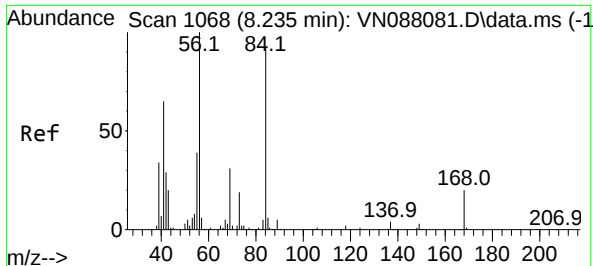
Tgt Ion:	84	Resp:	12626
Ion	Ratio	Lower	Upper
84	100		
49	126.4	103.4	155.2
51	35.1	33.8	50.8
86	58.9	49.6	74.4



#25
2-Butanone
Concen: 5.204 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion:	43	Resp:	15889
Ion	Ratio	Lower	Upper
43	100		
72	27.3	19.9	29.9

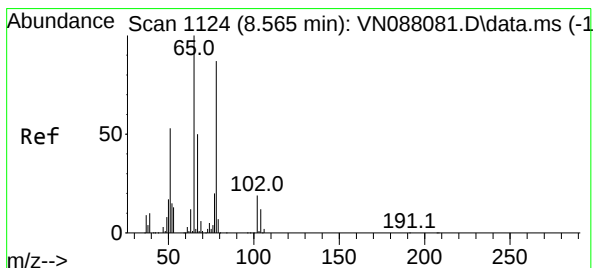
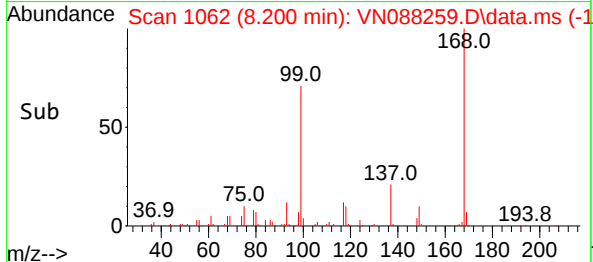
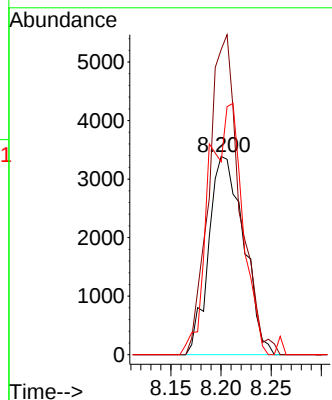
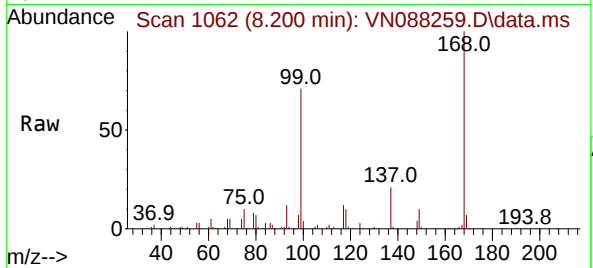




#31
Cyclohexane
Concen: 1.273 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

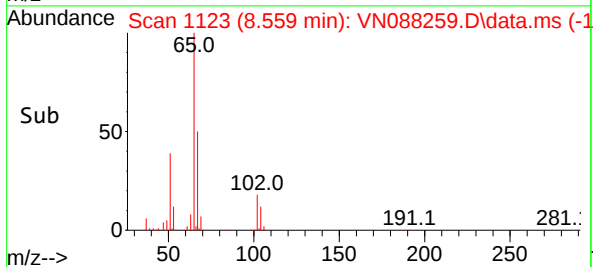
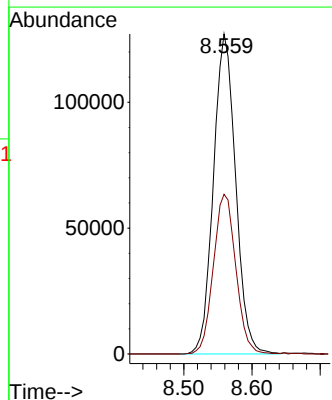
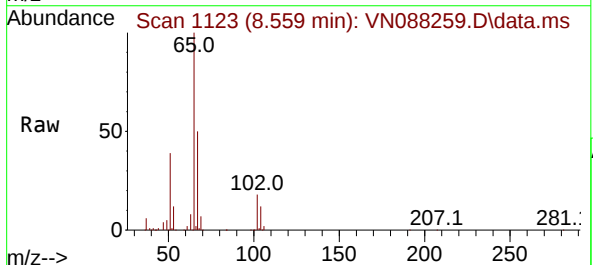
Instrument :
MSVOA_N
ClientSampleId :
TP-4

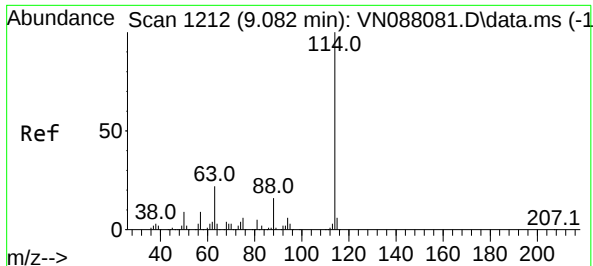
Tgt Ion: 56 Resp: 8215
Ion Ratio Lower Upper
56 100
69 153.9 23.7 35.5#
84 97.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 62.495 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 65 Resp: 288204
Ion Ratio Lower Upper
65 100
67 50.5 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

TP-4

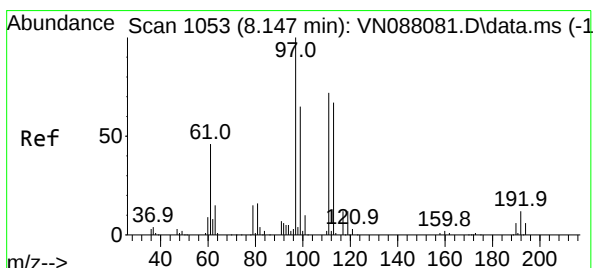
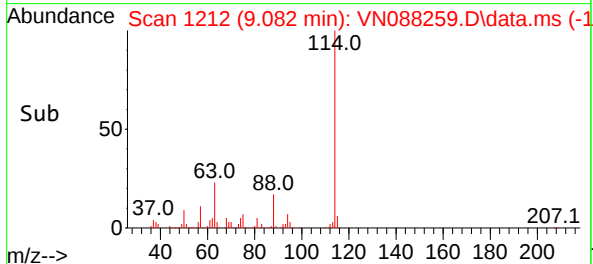
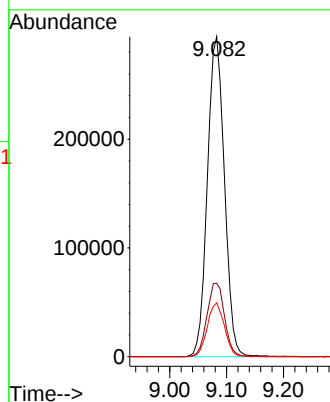
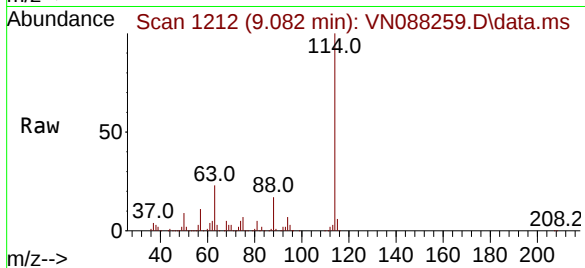
Tgt Ion:114 Resp: 611385

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.2

88 16.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.819 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

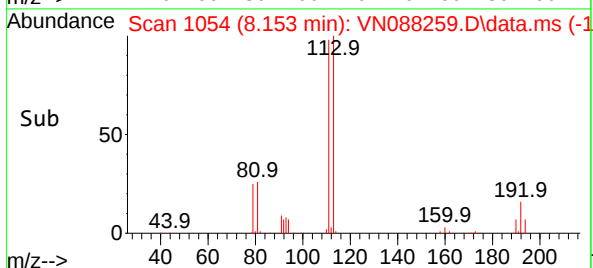
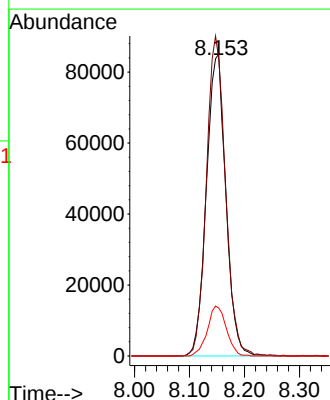
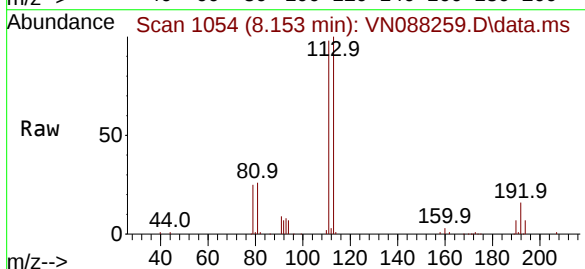
Tgt Ion:113 Resp: 208730

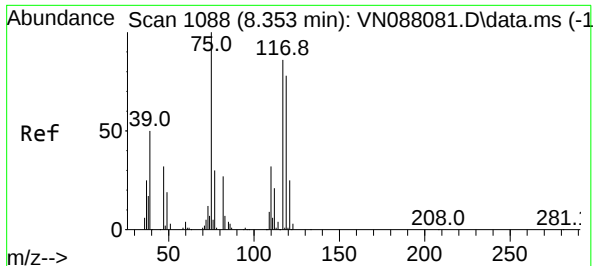
Ion Ratio Lower Upper

113 100

111 103.8 82.8 124.2

192 16.2 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.357 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

TP-4

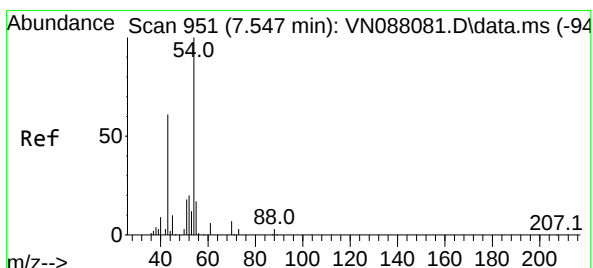
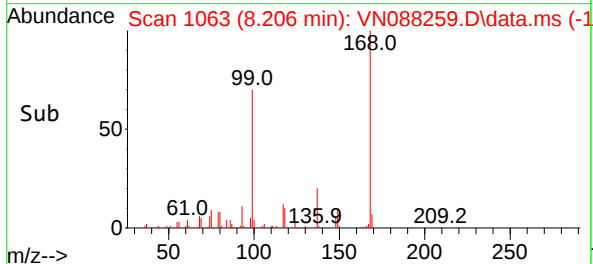
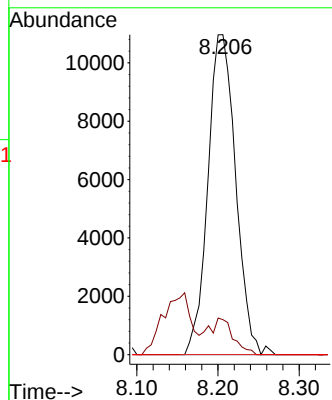
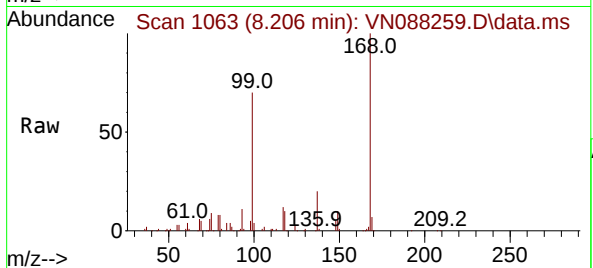
Tgt Ion: 75 Resp: 26129

Ion Ratio Lower Upper

75 100

110 9.3 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.053 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.071 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

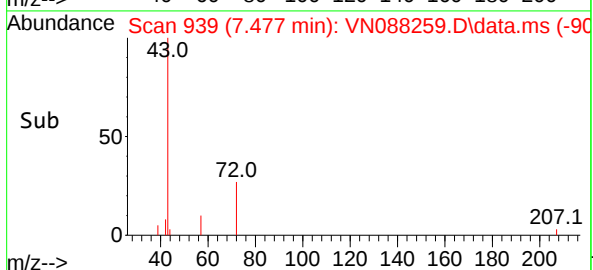
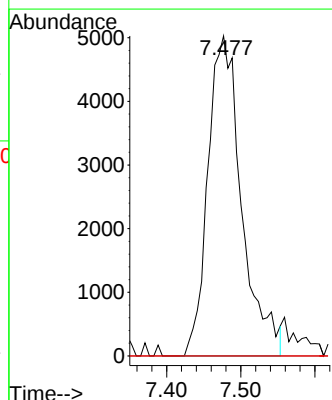
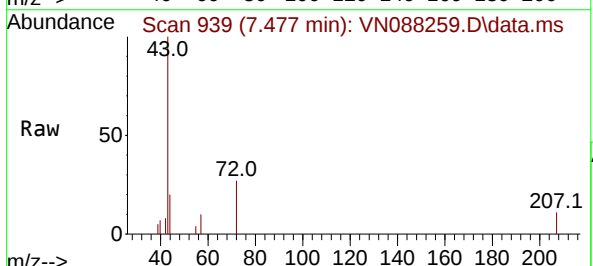
Tgt Ion: 43 Resp: 15889

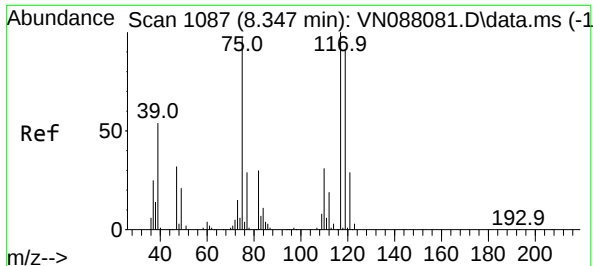
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#

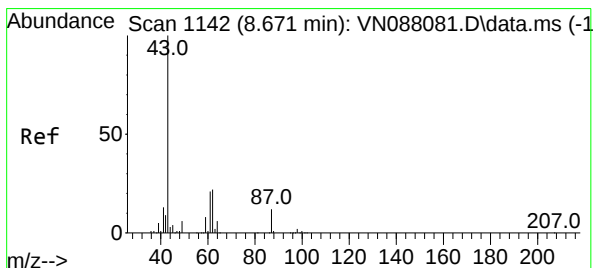
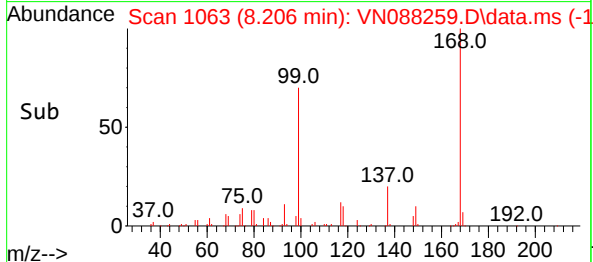
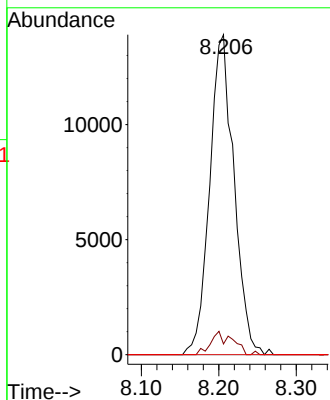
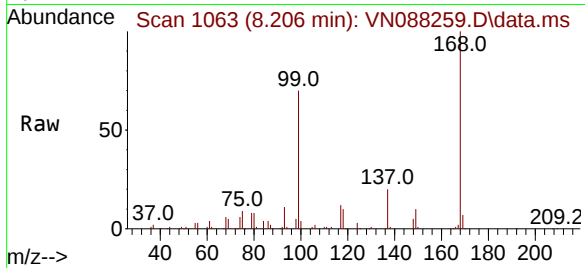




#38
Carbon Tetrachloride
Concen: 4.890 ug/l
RT: 8.206 min Scan# 1103
Delta R.T. -0.135 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

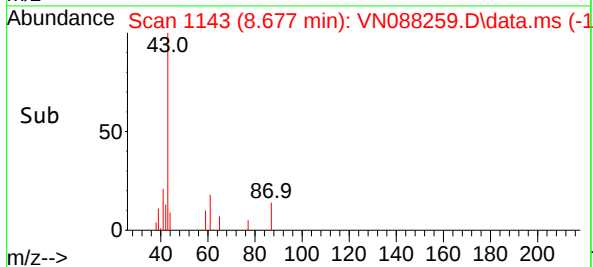
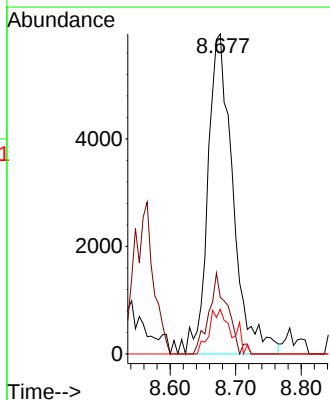
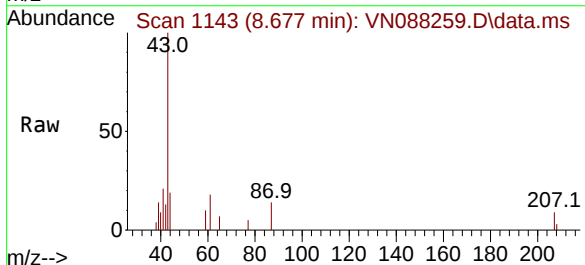
Instrument :
MSVOA_N
ClientSampleId :
TP-4

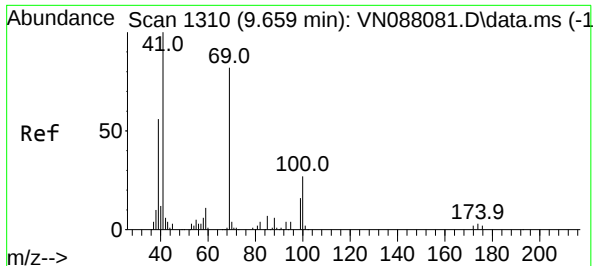
Tgt Ion:117 Resp: 30291
Ion Ratio Lower Upper
117 100
119 3.3 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.333 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 43 Resp: 15850
Ion Ratio Lower Upper
43 100
61 18.1 18.8 28.2#
87 12.7 9.6 14.4

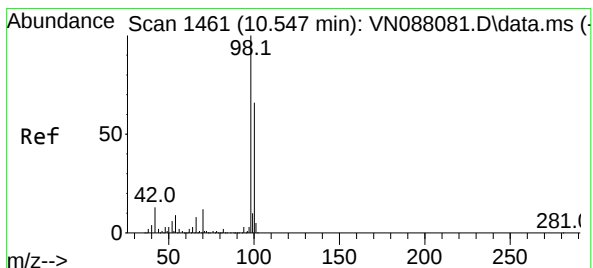
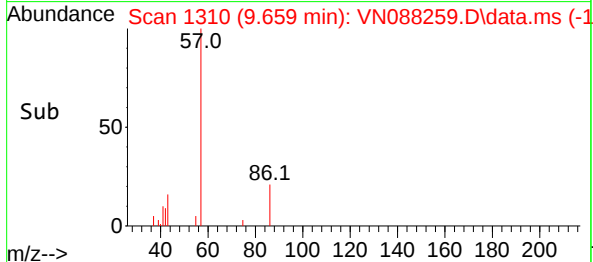
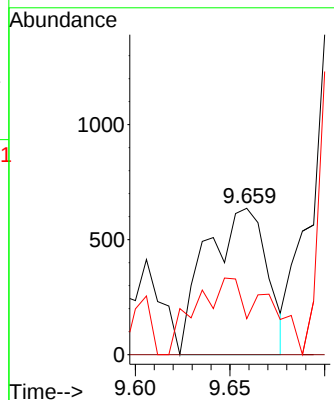
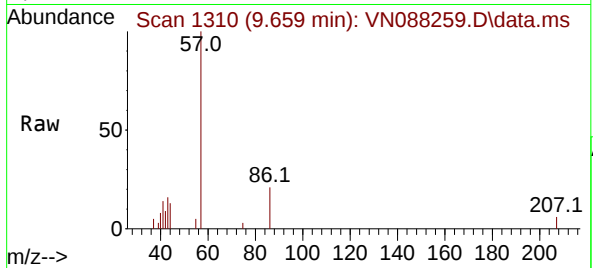




#48
Methyl methacrylate
Concen: 0.259 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

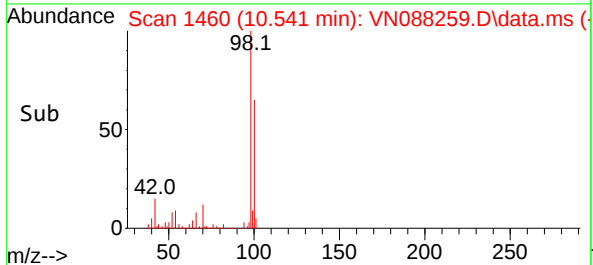
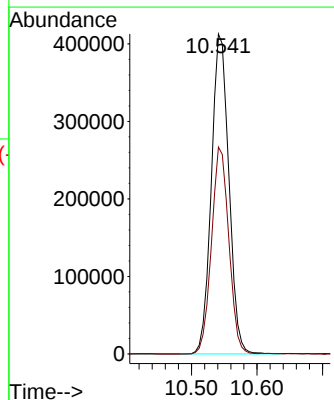
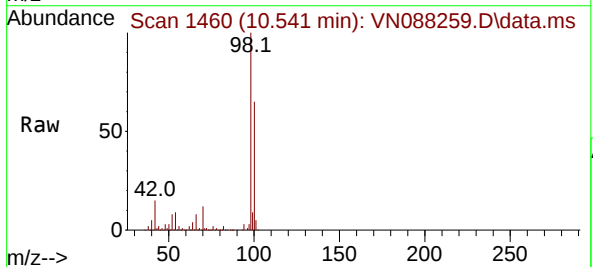
Instrument :
MSVOA_N
ClientSampleId :
TP-4

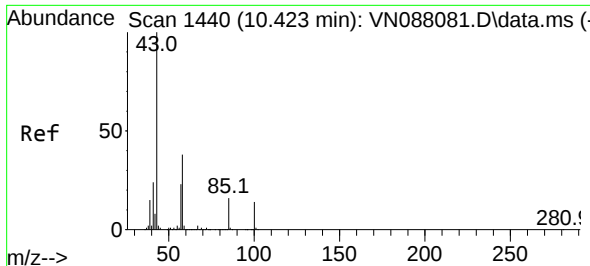
Tgt Ion: 41 Resp: 1424
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 41.2 52.9 79.3#



#50
Toluene-d8
Concen: 48.251 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 98 Resp: 763629
Ion Ratio Lower Upper
98 100
100 64.1 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 1.856 ug/l

RT: 10.429 min Scan# 1440

Delta R.T. 0.006 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

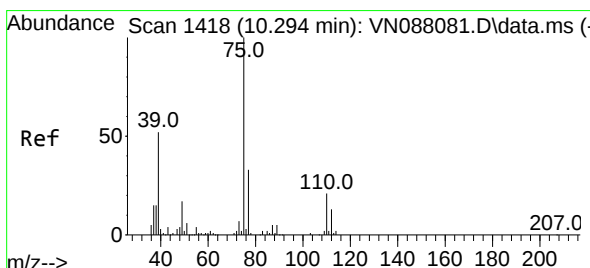
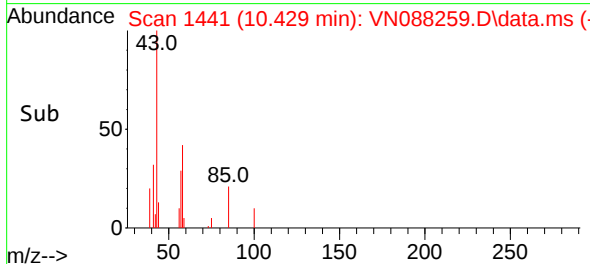
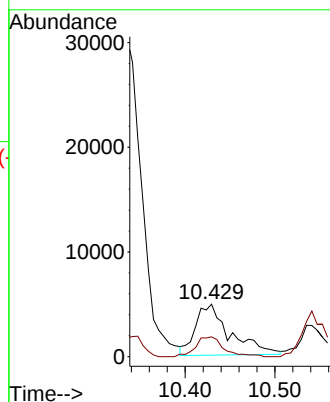
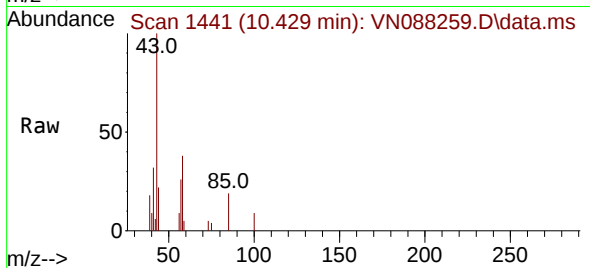
TP-4

Tgt Ion: 43 Resp: 13055

Ion Ratio Lower Upper

43 100

58 31.4 29.6 44.4



#54

cis-1,3-Dichloropropene

Concen: 3.161 ug/l

RT: 10.341 min Scan# 1426

Delta R.T. 0.053 min

Lab File: VN088259.D

Acq: 11 Nov 2025 15:47

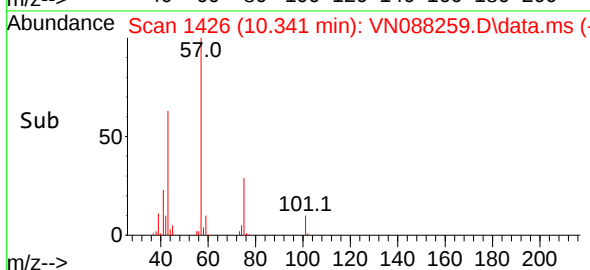
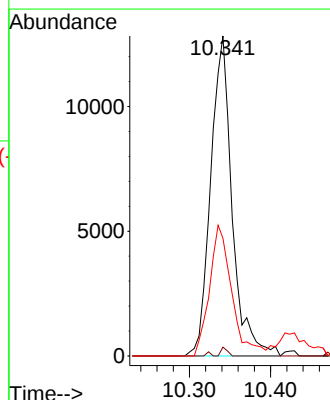
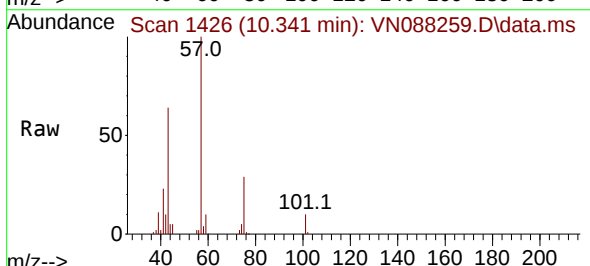
Tgt Ion: 75 Resp: 23508

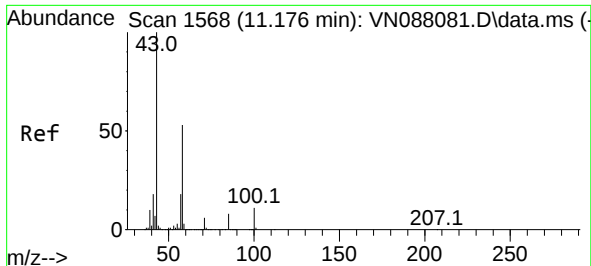
Ion Ratio Lower Upper

75 100

77 2.8 24.6 37.0#

39 36.8 45.2 67.8#

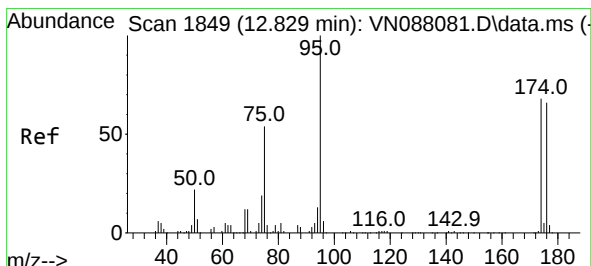
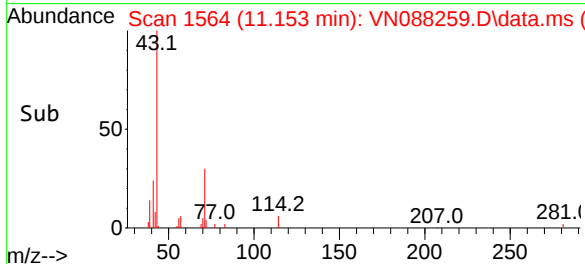
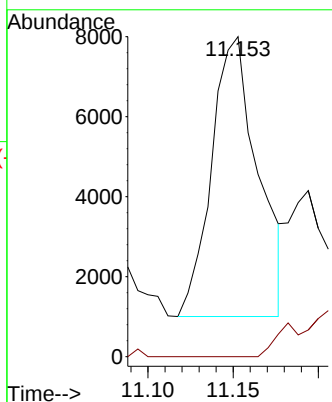
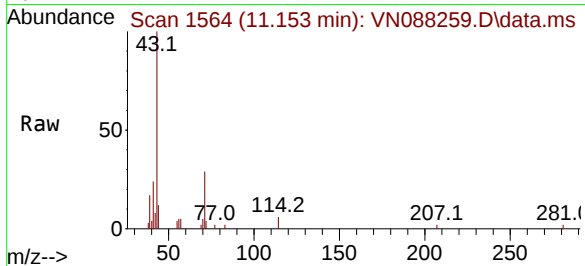




#59
2-Hexanone
Concen: 2.841 ug/l
RT: 11.153 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

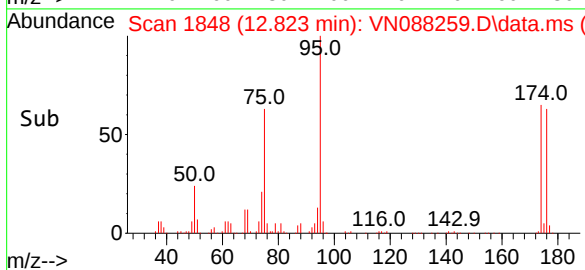
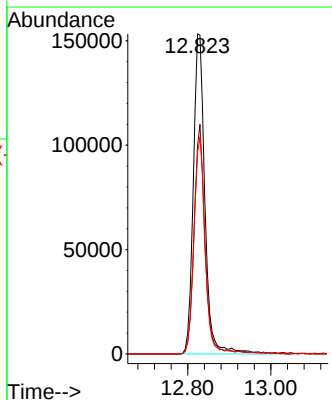
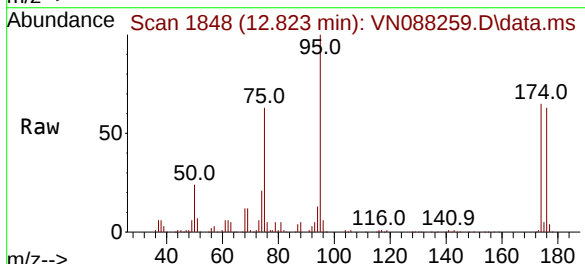
Instrument :
MSVOA_N
ClientSampleId :
TP-4

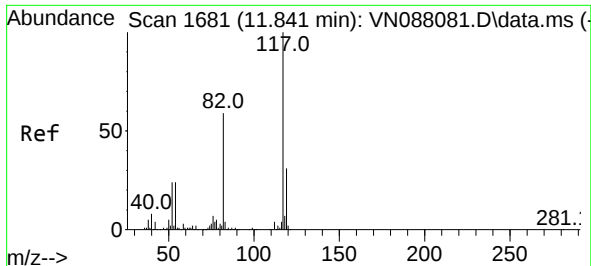
Tgt Ion: 43 Resp: 13259
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 53.176 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 95 Resp: 297214
Ion Ratio Lower Upper
95 100
174 66.7 0.0 138.4
176 63.9 0.0 132.6

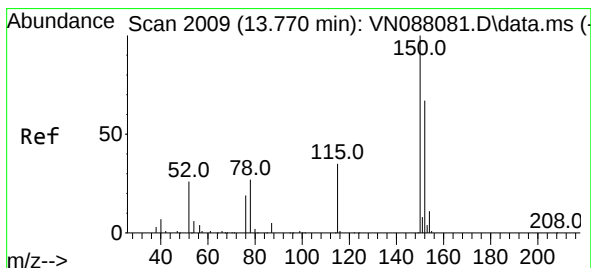
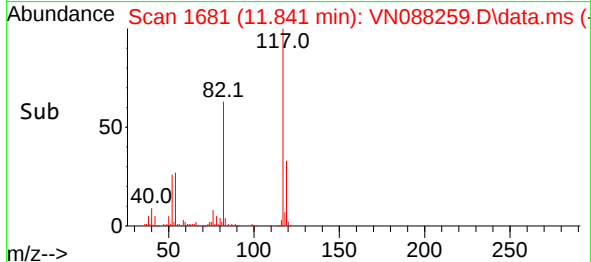
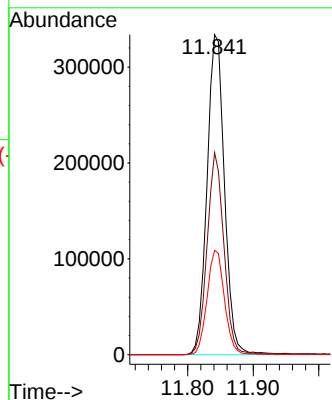
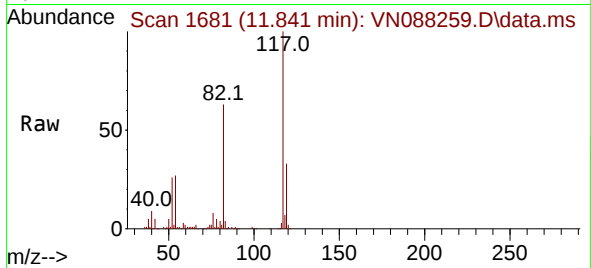




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

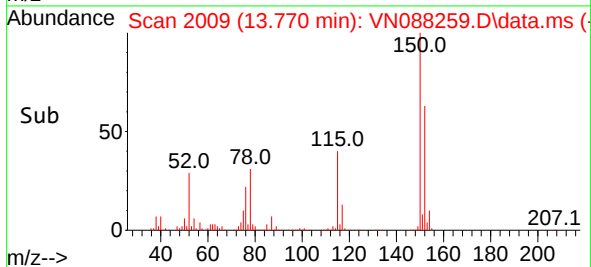
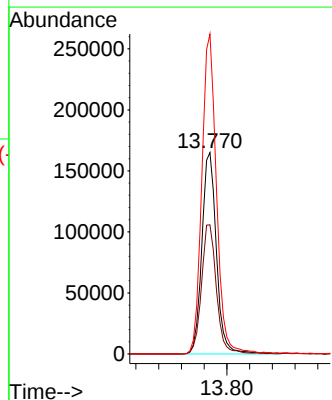
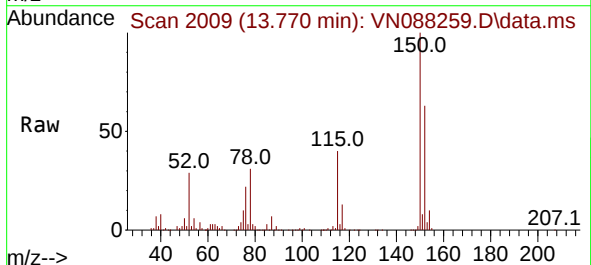
Instrument :
MSVOA_N
ClientSampleId :
TP-4

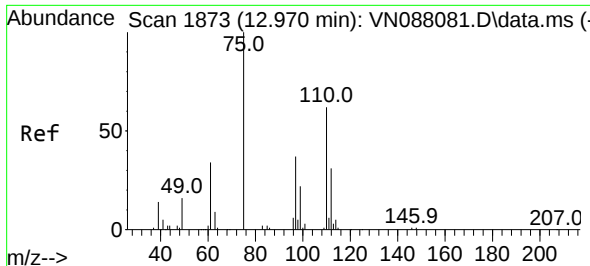
Tgt Ion:117 Resp: 618225
Ion Ratio Lower Upper
117 100
82 63.2 47.4 71.2
119 32.6 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion:152 Resp: 294183
Ion Ratio Lower Upper
152 100
115 65.9 32.3 96.8
150 159.1 0.0 351.0

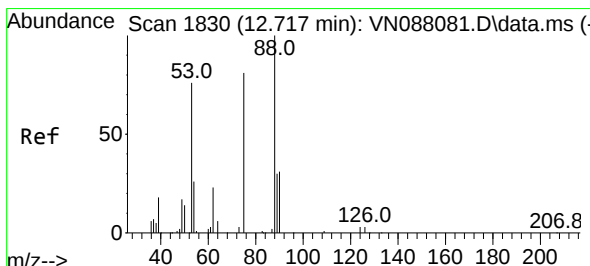
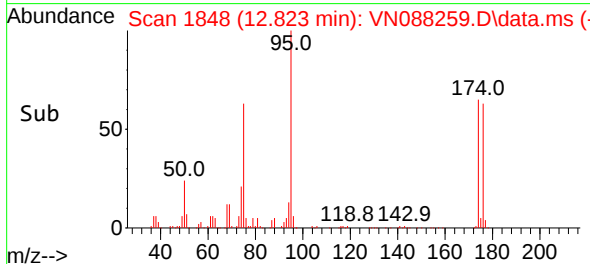
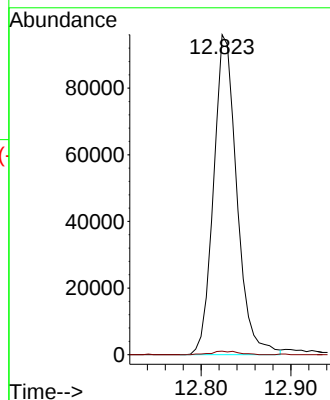
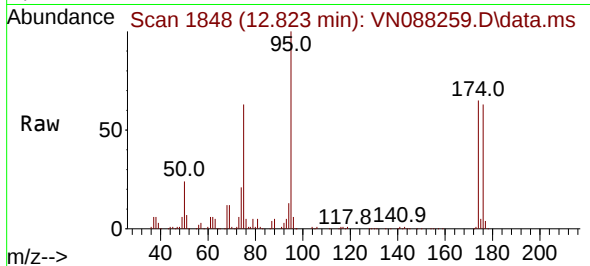




#76
1,2,3-Trichloropropane
Concen: 25.705 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
TP-4

Tgt Ion: 75 Resp: 172887
Ion Ratio Lower Upper
75 100
77 1.3 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.704 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088259.D
Acq: 11 Nov 2025 15:47

Tgt Ion: 75 Resp: 172887
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

