

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111725\
 Data File : VN088301.D
 Acq On : 17 Nov 2025 14:00
 Operator : JC\MD
 Sample : Q3628-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Nov 18 03:01:04 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)

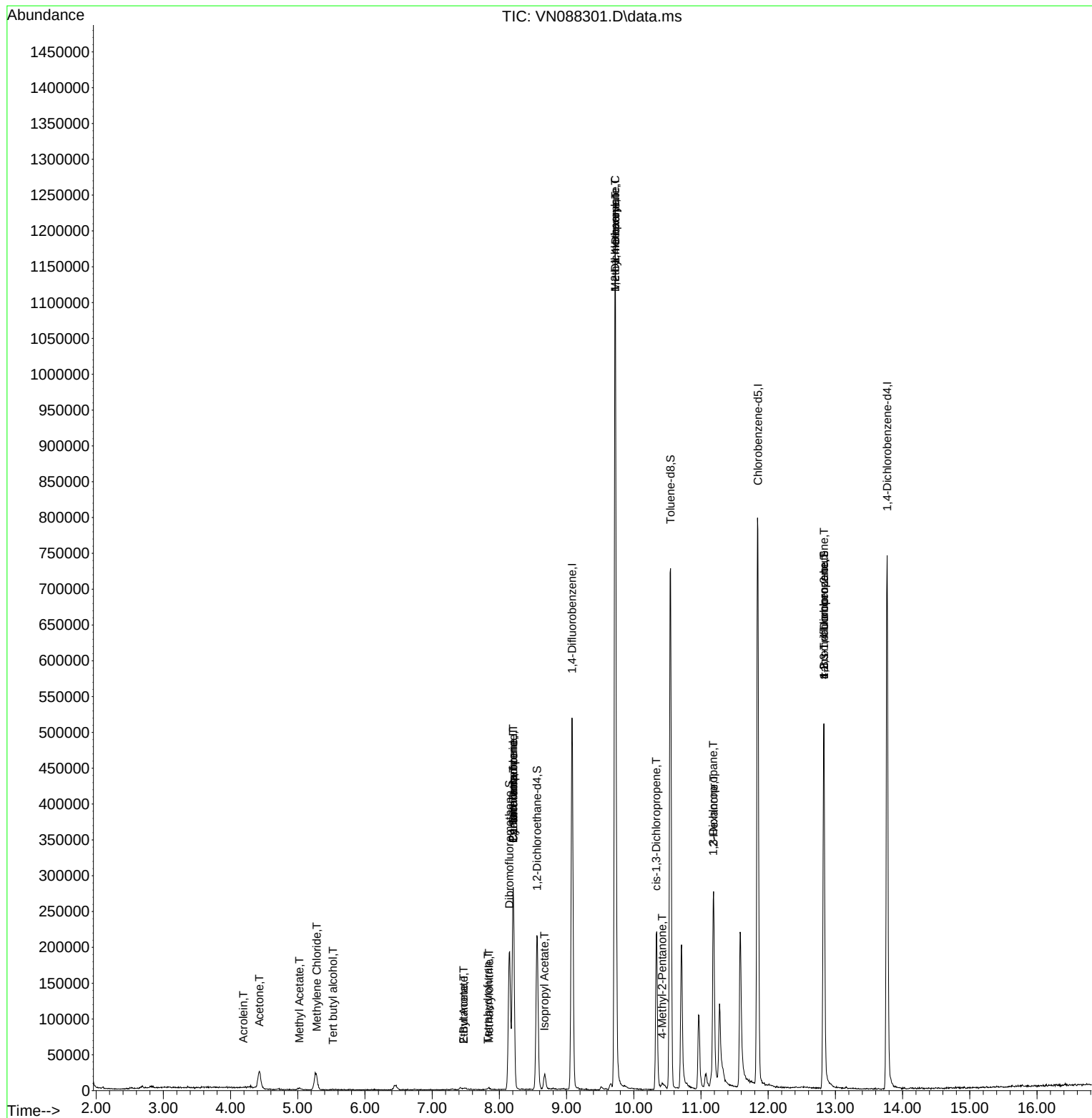
Internal Standards						
1) Pentafluorobenzene	8.206	168	187868	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	422629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	437002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	204472	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	178933	55.080	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.160%
35) Dibromofluoromethane	8.147	113	139109	48.995	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.000%
50) Toluene-d8	10.547	98	503393	46.014	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.020%
62) 4-Bromofluorobenzene	12.829	95	185775	48.083	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.160%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	683	1.220	ug/l #	71
13) Acrolein	4.189	56	145	0.230	ug/l #	18
16) Acetone	4.430	43	49541	30.355	ug/l	96
18) Methyl Acetate	5.024	43	5133	1.536	ug/l	94
20) Methylene Chloride	5.283	84	17657	6.445	ug/l	88
25) 2-Butanone	7.471	43	4810	2.236	ug/l	100
29) Tetrahydrofuran	7.830	42	1658	1.183	ug/l #	67
31) Cyclohexane	8.206	56	6082	1.337	ug/l #	29
36) 1,1-Dichloropropene	8.206	75	18543	4.473	ug/l #	52
37) Ethyl Acetate	7.471	43	4810	0.899	ug/l #	72
38) Carbon Tetrachloride	8.206	117	21752	5.080	ug/l #	17
41) Methacrylonitrile	7.847	41	996	0.354	ug/l #	31
43) Isopropyl Acetate	8.671	43	23862	2.903	ug/l	95
45) 1,2-Dichloropropane	9.724	63	1587	0.498	ug/l #	43
48) Methyl methacrylate	9.724	41	118214	31.147	ug/l #	47
49) 1,4-Dioxane	9.729	88	118	2.500	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	5051	1.039	ug/l #	78
54) cis-1,3-Dichloropropene	10.335	75	39105	7.608	ug/l #	66
57) 1,3-Dichloropropane	11.182	76	2857	0.550	ug/l #	42
59) 2-Hexanone	11.188	43	58290	18.068	ug/l #	49
76) 1,2,3-Trichloropropane	12.829	75	104134	22.275	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	104134	62.138	ug/l #	1

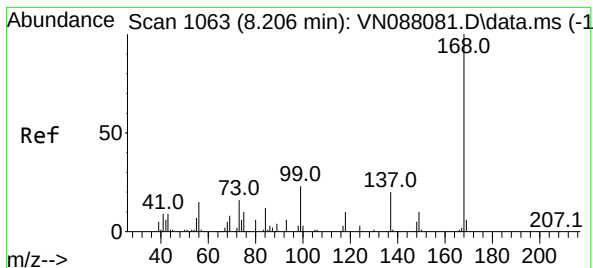
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111725\
Data File : VN088301.D
Acq On : 17 Nov 2025 14:00
Operator : JC\MD
Sample : Q3628-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-5

Quant Time: Nov 18 03:01:04 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

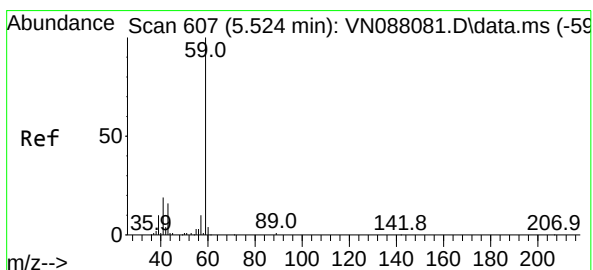
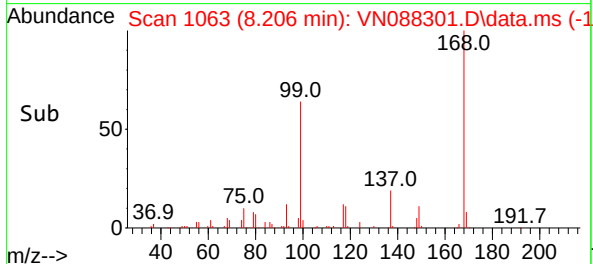
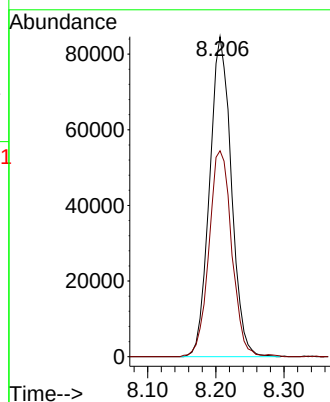
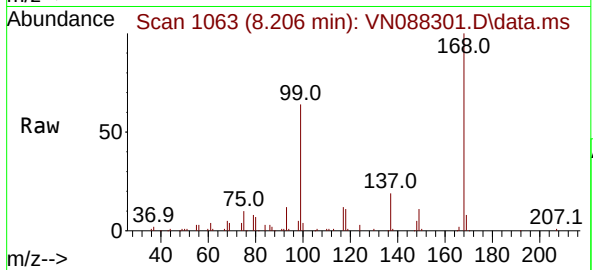




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

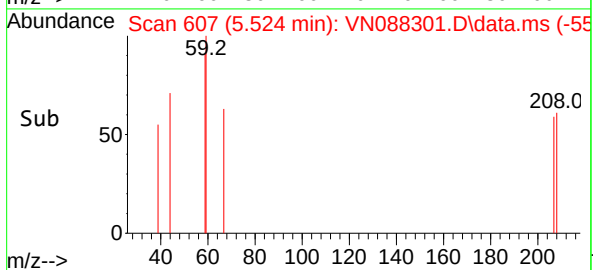
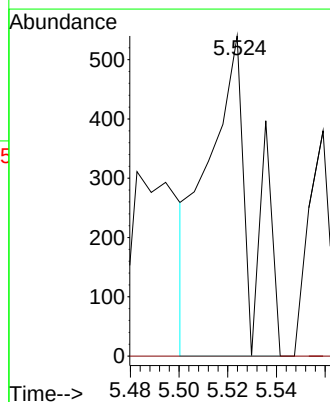
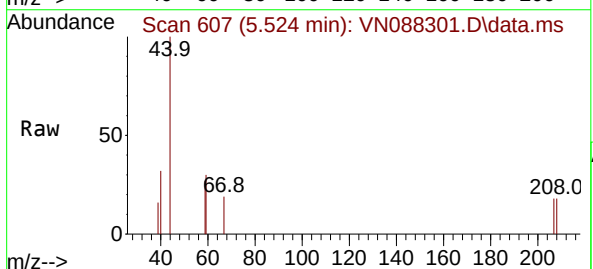
Instrument :
MSVOA_N
ClientSampleId :
TP-5

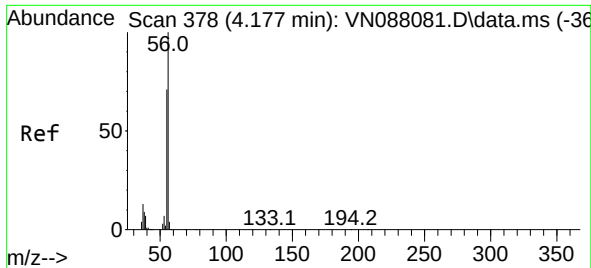
Tgt Ion:168 Resp: 187868
Ion Ratio Lower Upper
168 100
99 64.4 57.2 85.8



#11
Tert butyl alcohol
Concen: 1.220 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 59 Resp: 683
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#13

Acrolein

Concen: 0.230 ug/l

RT: 4.189 min Scan# 378

Delta R.T. 0.018 min

Lab File: VN088301.D

Acq: 17 Nov 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

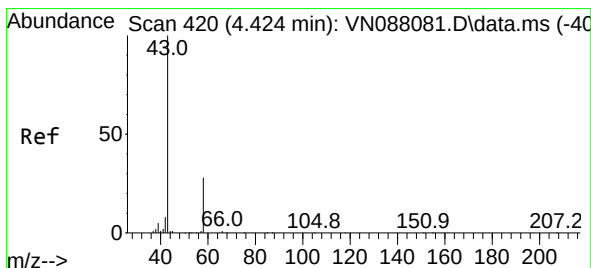
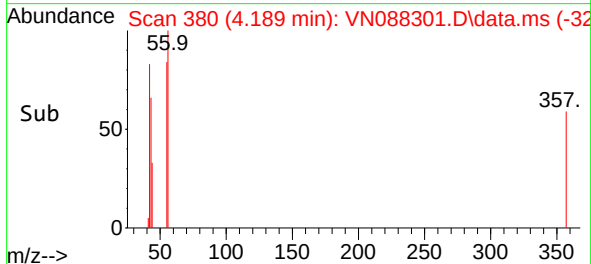
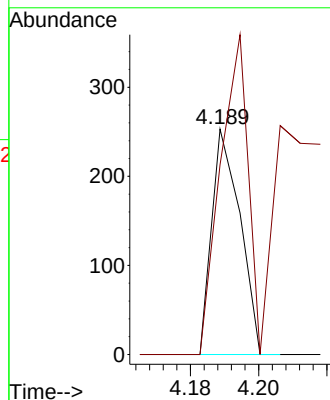
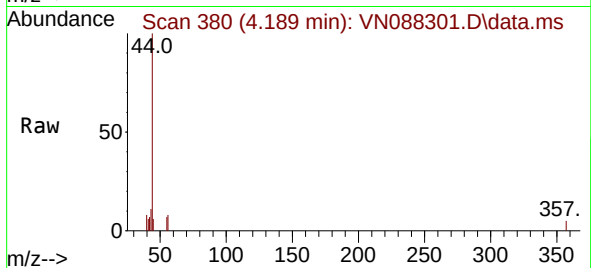
TP-5

Tgt Ion: 56 Resp: 145

Ion Ratio Lower Upper

56 100

55 139.3 57.3 85.9#



#16

Acetone

Concen: 30.355 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN088301.D

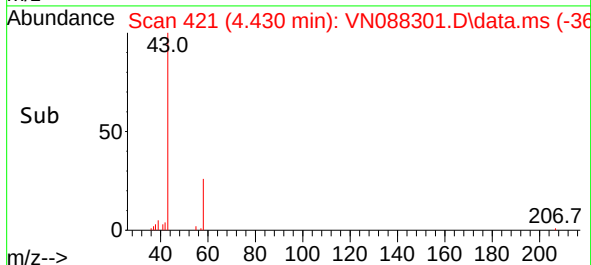
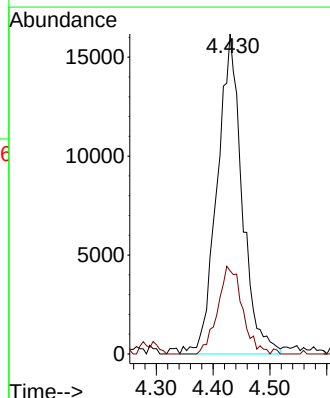
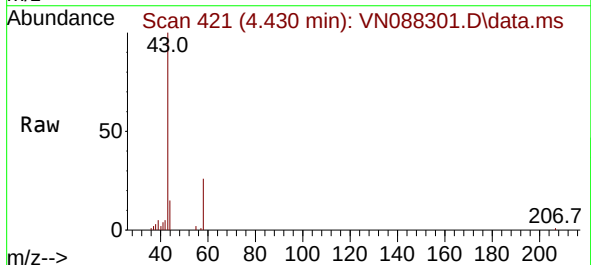
Acq: 17 Nov 2025 14:00

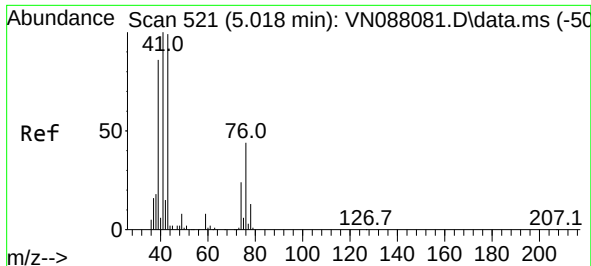
Tgt Ion: 43 Resp: 49541

Ion Ratio Lower Upper

43 100

58 26.0 22.6 33.8

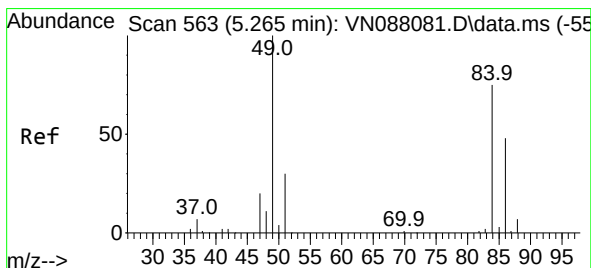
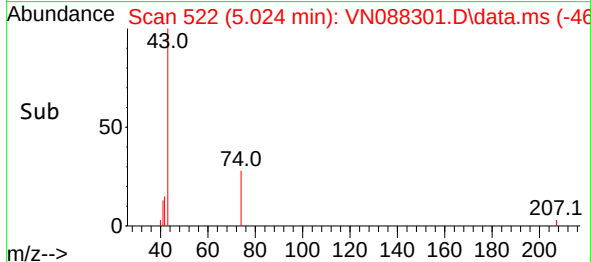
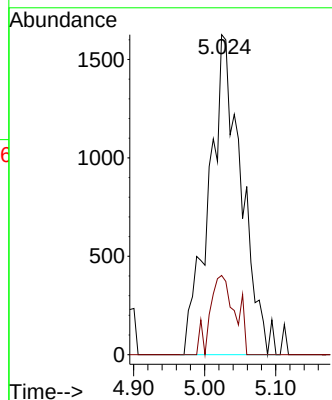
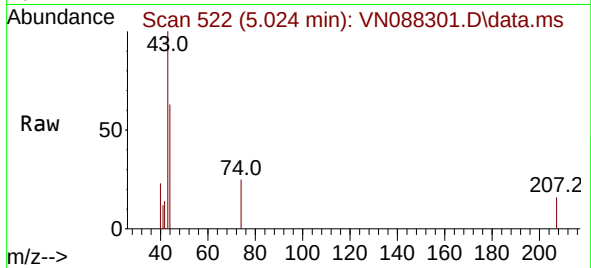




#18
Methyl Acetate
Concen: 1.536 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

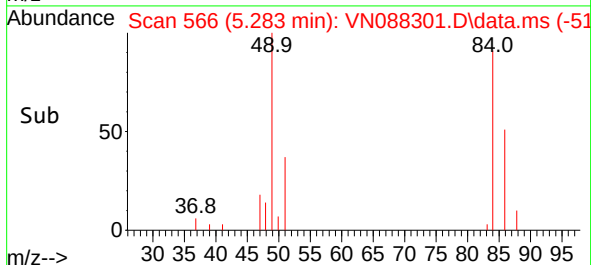
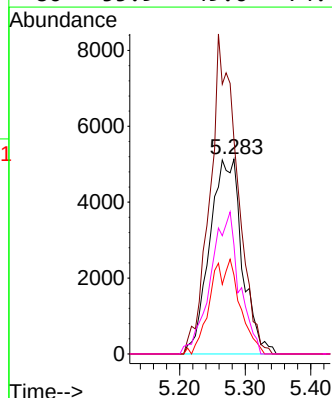
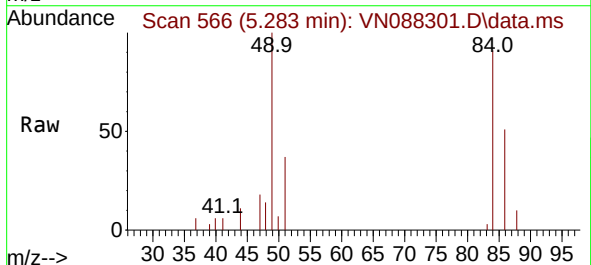
Instrument :
MSVOA_N
ClientSampleId :
TP-5

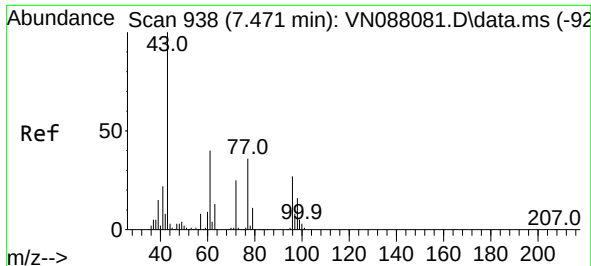
Tgt Ion: 43 Resp: 5133
Ion Ratio Lower Upper
43 100
74 19.1 17.6 26.4



#20
Methylene Chloride
Concen: 6.445 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.018 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 84 Resp: 17657
Ion Ratio Lower Upper
84 100
49 110.1 103.4 155.2
51 40.5 33.8 50.8
86 55.9 49.6 74.4

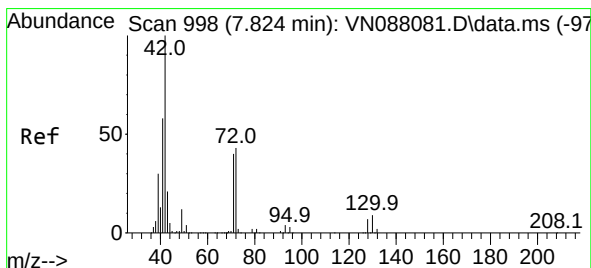
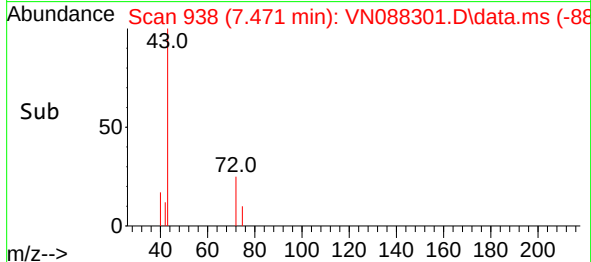
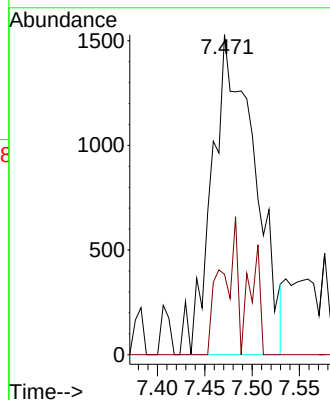
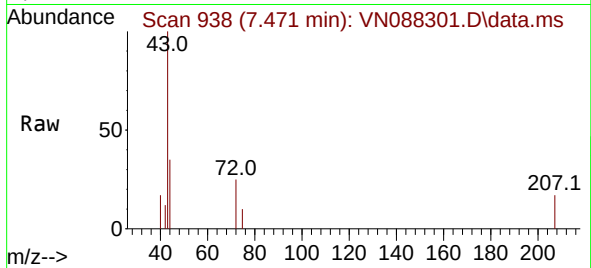




#25
2-Butanone
Concen: 2.236 ug/l
RT: 7.471 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

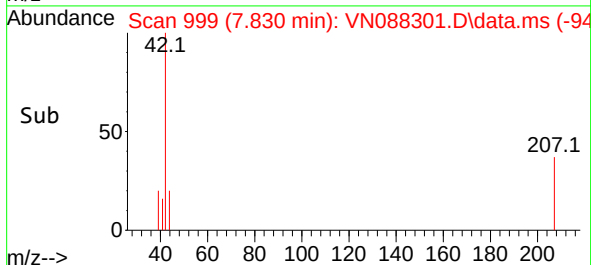
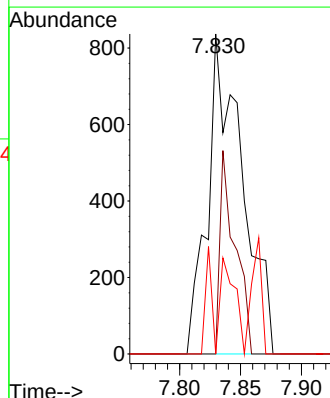
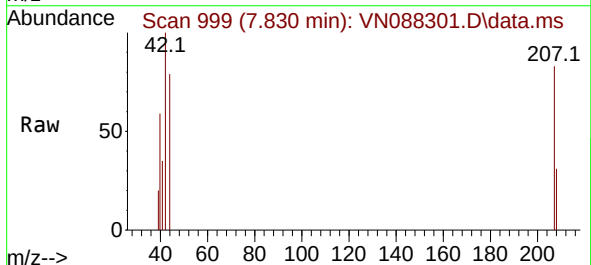
Instrument :
MSVOA_N
ClientSampleId :
TP-5

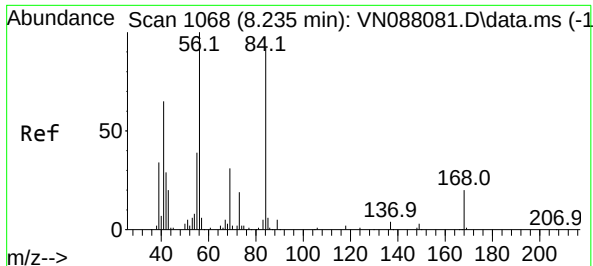
Tgt Ion: 43 Resp: 4810
Ion Ratio Lower Upper
43 100
72 25.1 19.9 29.9



#29
Tetrahydrofuran
Concen: 1.183 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 42 Resp: 1658
Ion Ratio Lower Upper
42 100
72 27.9 33.7 50.5#
71 12.9 31.9 47.9#

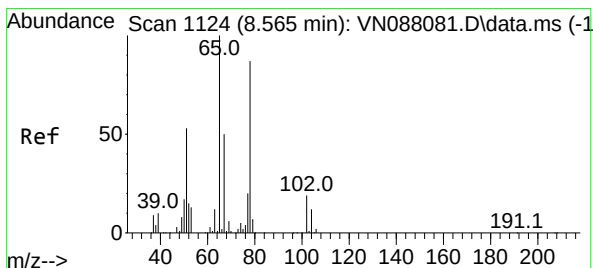
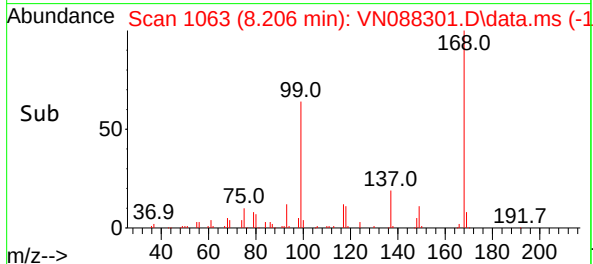
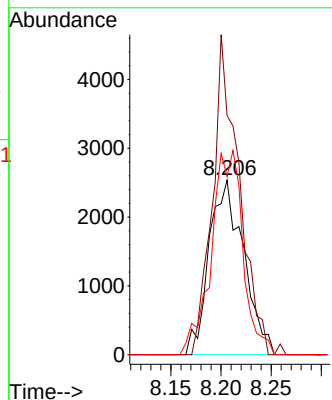
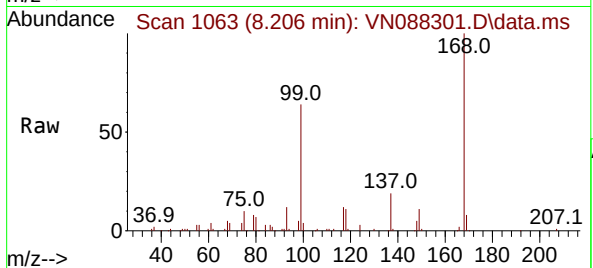




#31
Cyclohexane
Concen: 1.337 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

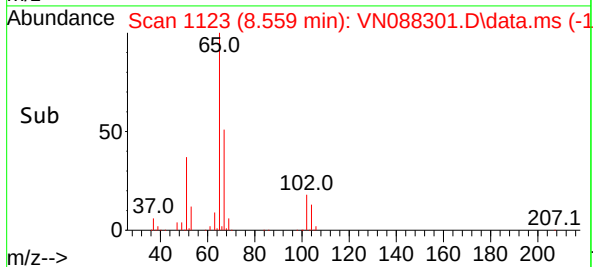
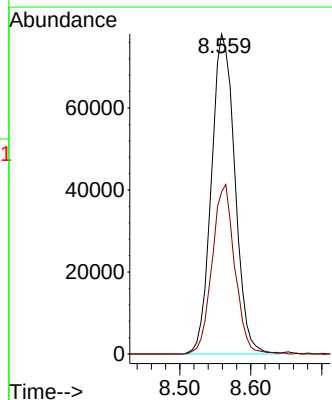
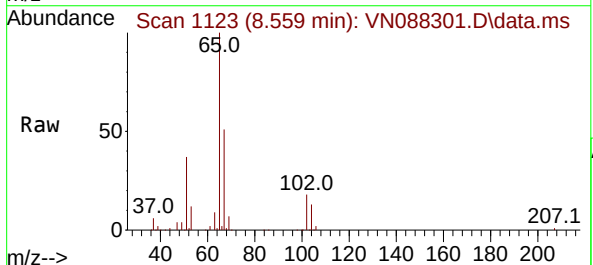
Instrument :
MSVOA_N
ClientSampleId :
TP-5

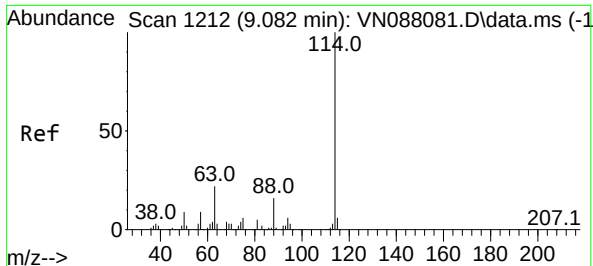
Tgt Ion: 56 Resp: 6082
Ion Ratio Lower Upper
56 100
69 136.9 23.7 35.5#
84 102.2 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 55.080 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 65 Resp: 178933
Ion Ratio Lower Upper
65 100
67 51.0 0.0 100.0

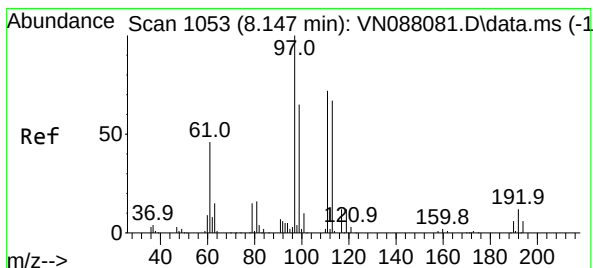
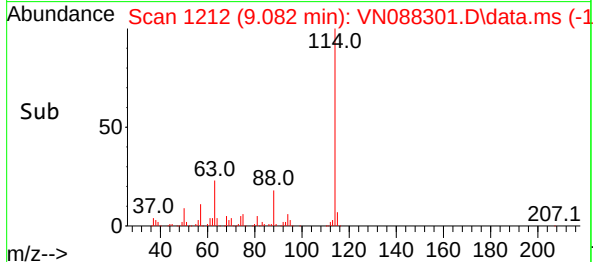
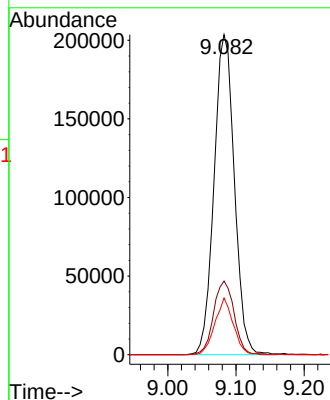
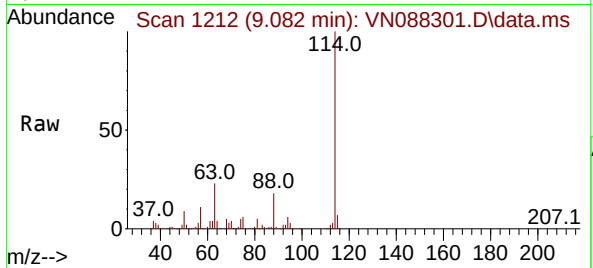




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 114
Delta R.T. -0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

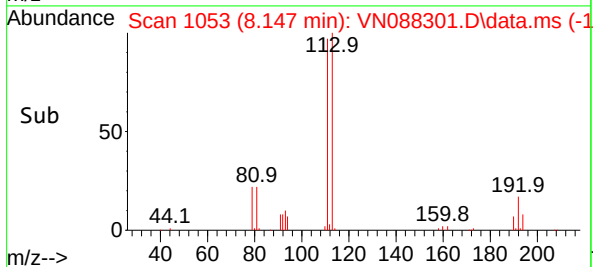
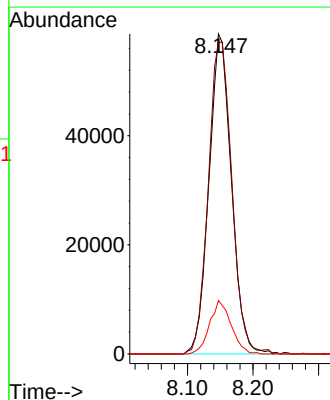
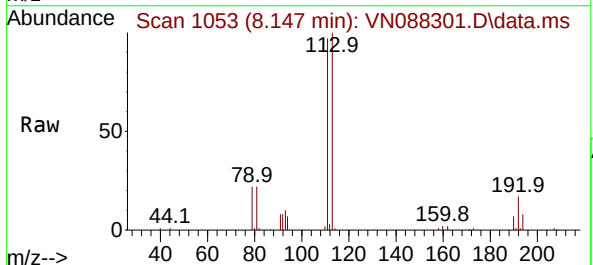
Instrument :
MSVOA_N
ClientSampleId :
TP-5

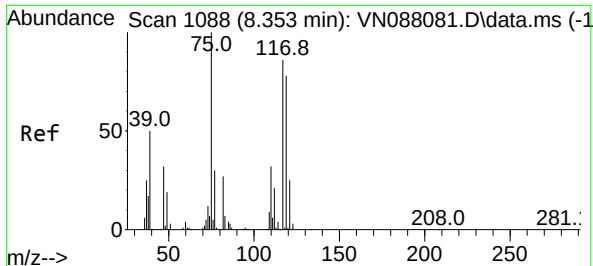
Tgt Ion:114 Resp: 422629
Ion Ratio Lower Upper
114 100
63 23.0 0.0 45.2
88 17.7 0.0 33.4



#35
Dibromofluoromethane
Concen: 48.995 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion:113 Resp: 139109
Ion Ratio Lower Upper
113 100
111 102.4 82.8 124.2
192 16.1 12.8 19.2

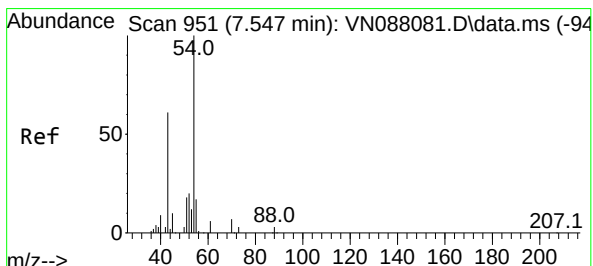
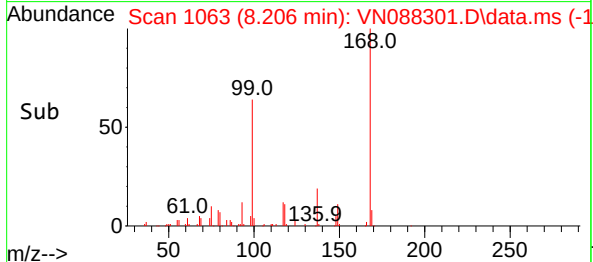
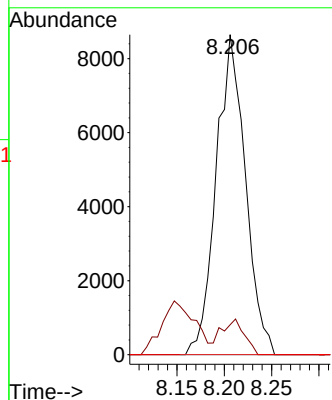
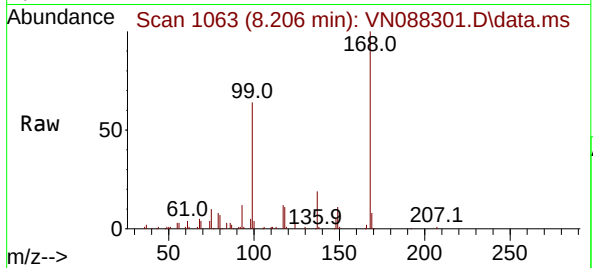




#36
1,1-Dichloropropene
Concen: 4.473 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

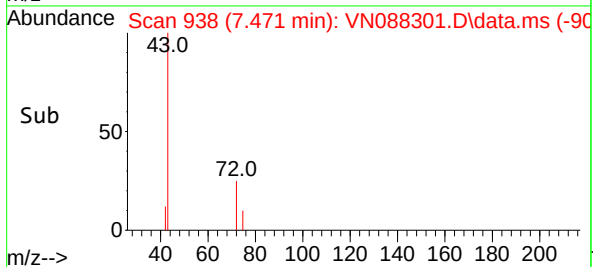
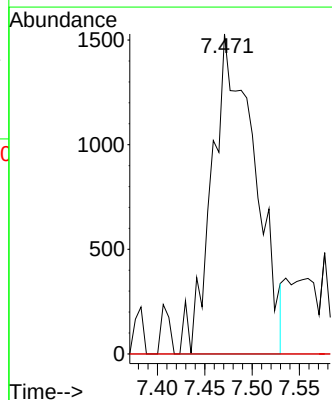
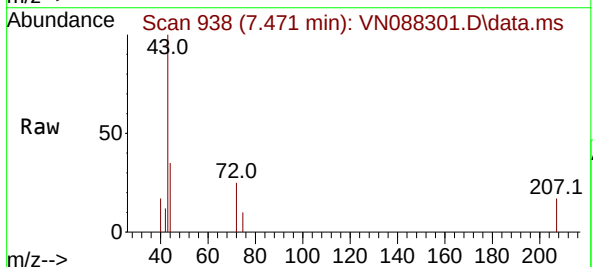
Instrument :
MSVOA_N
ClientSampleId :
TP-5

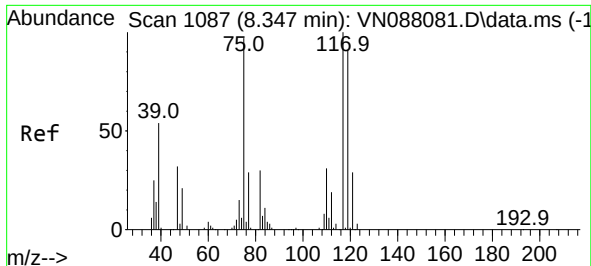
Tgt Ion: 75 Resp: 18543
Ion Ratio Lower Upper
75 100
110 9.2 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 0.899 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.077 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 43 Resp: 4810
Ion Ratio Lower Upper
43 100
61 0.0 9.3 13.9#
70 0.0 7.0 10.6#

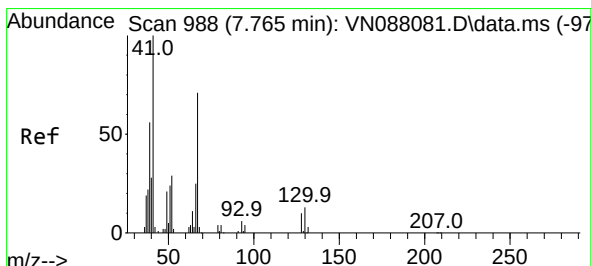
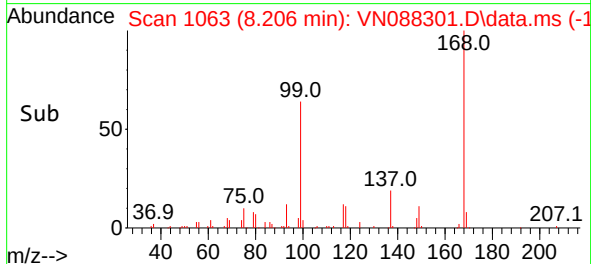
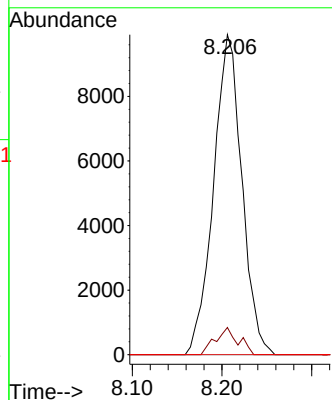
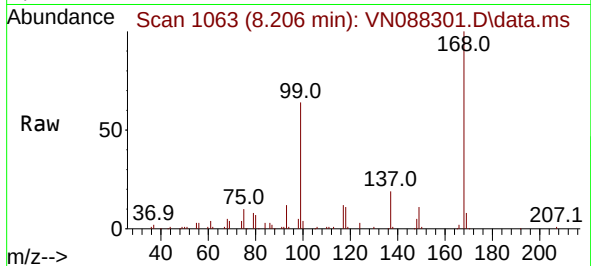




#38
Carbon Tetrachloride
Concen: 5.080 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

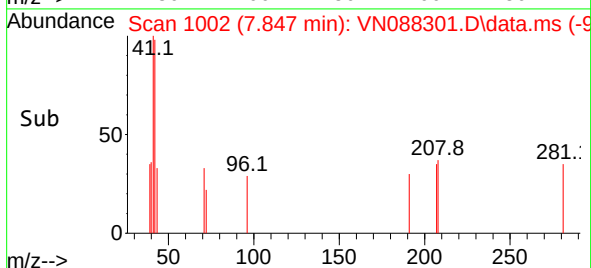
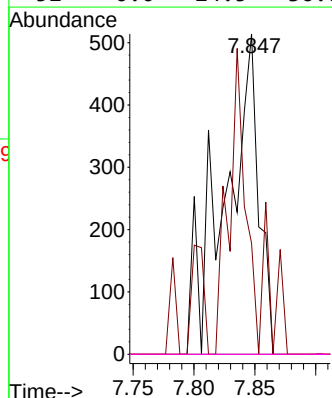
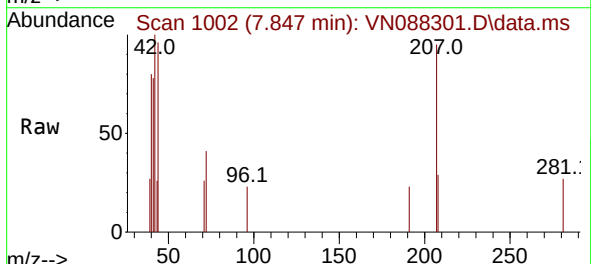
Instrument :
MSVOA_N
ClientSampleId :
TP-5

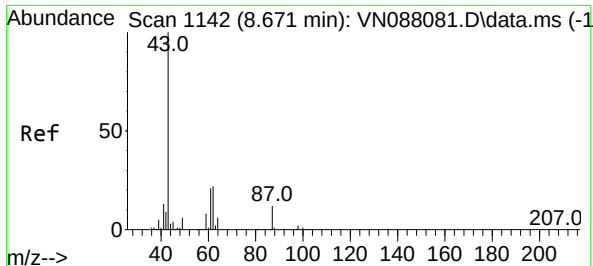
Tgt Ion:117 Resp: 21752
Ion Ratio Lower Upper
117 100
119 8.5 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.354 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.088 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 41 Resp: 996
Ion Ratio Lower Upper
41 100
39 14.6 45.4 68.0#
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#

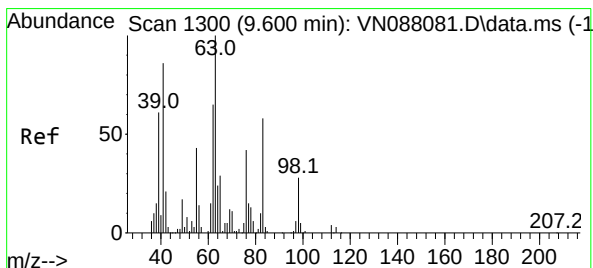
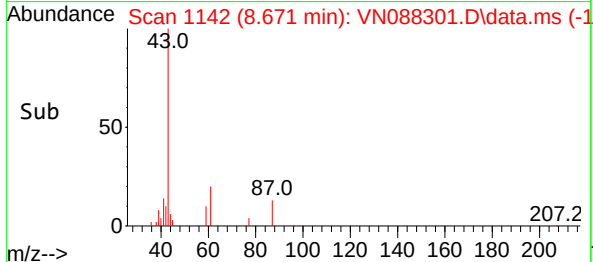
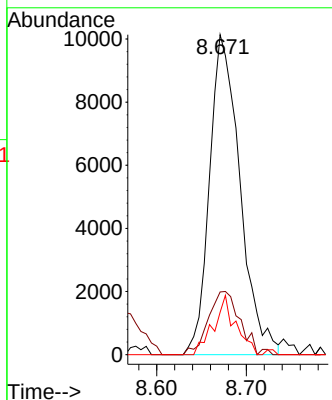
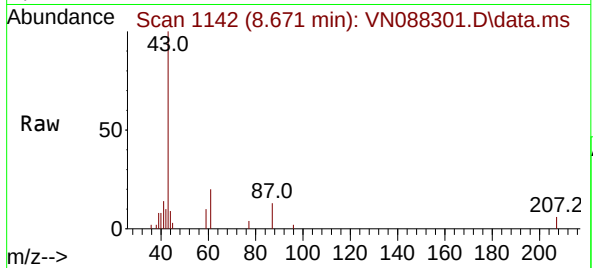




#43
Isopropyl Acetate
Concen: 2.903 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

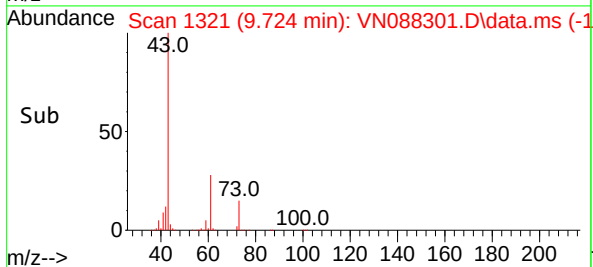
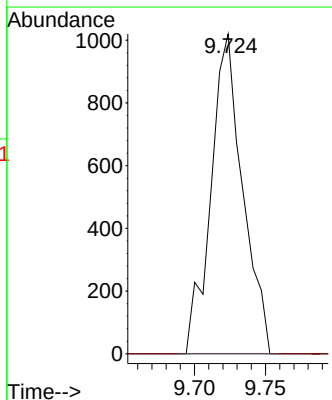
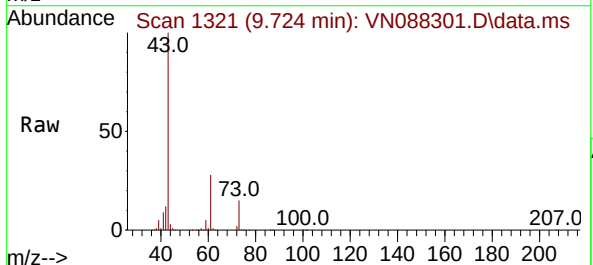
Instrument :
MSVOA_N
ClientSampleId :
TP-5

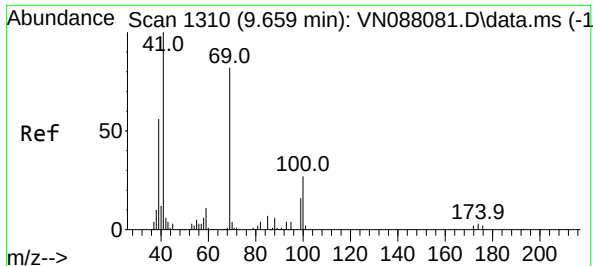
Tgt Ion:	43	Resp:	23862
Ion	Ratio	Lower	Upper
43	100		
61	20.7	18.8	28.2
87	13.5	9.6	14.4



#45
1,2-Dichloropropane
Concen: 0.498 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.123 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion:	63	Resp:	1587
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#

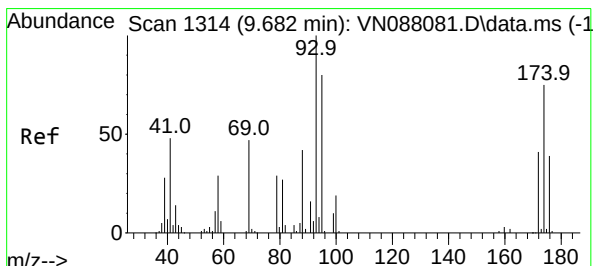
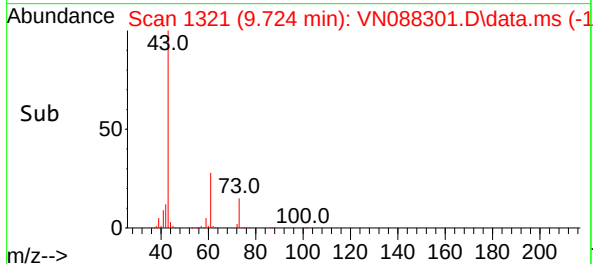
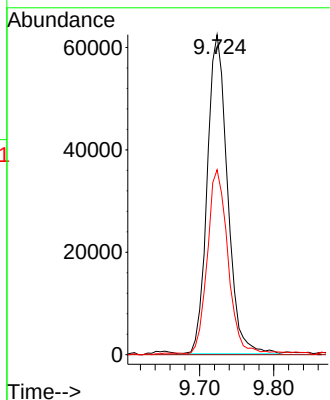
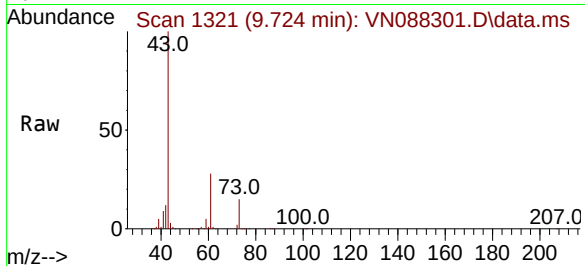




#48
Methyl methacrylate
Concen: 31.147 ug/l
RT: 9.724 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

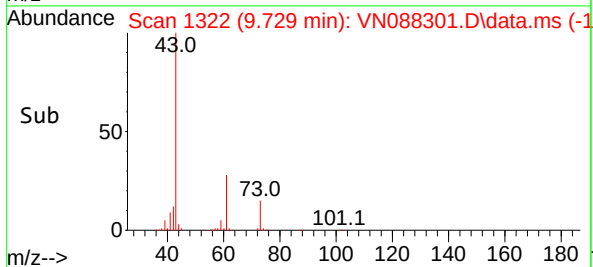
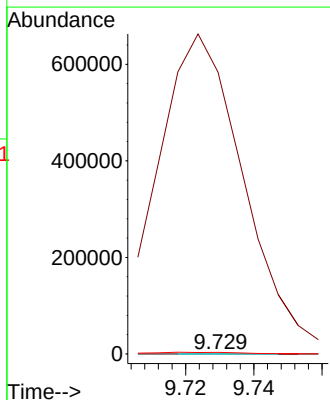
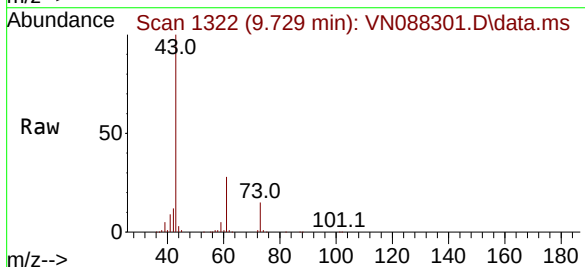
Instrument :
MSVOA_N
ClientSampleId :
TP-5

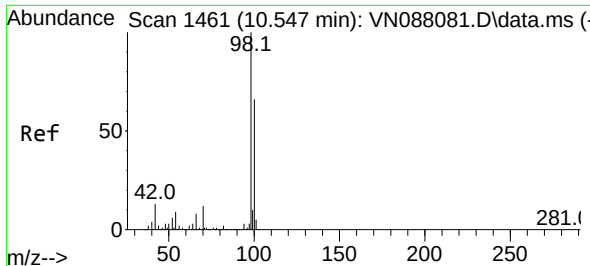
Tgt Ion: 41 Resp: 118214
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 58.8 52.9 79.3



#49
1,4-Dioxane
Concen: 2.500 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.047 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 88 Resp: 118
Ion Ratio Lower Upper
88 100
43 1038247.5 0.0 0.0#
58 6354.2 57.9 86.9#

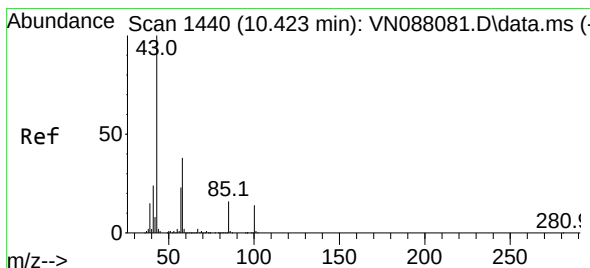
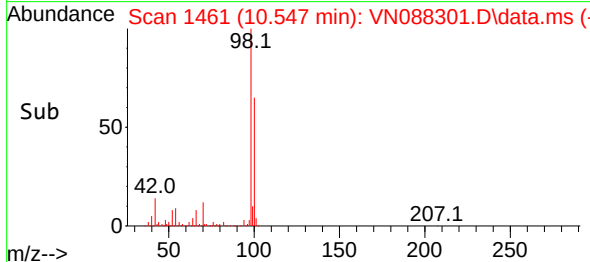
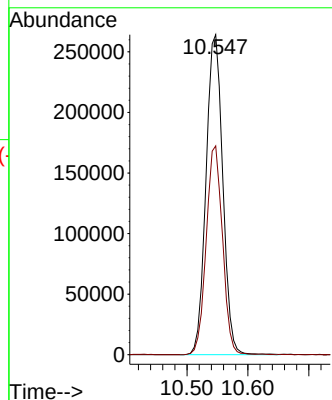
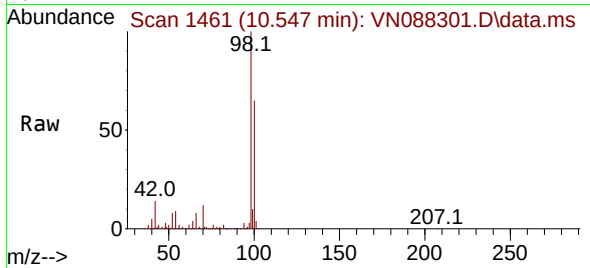




#50
Toluene-d8
Concen: 46.014 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

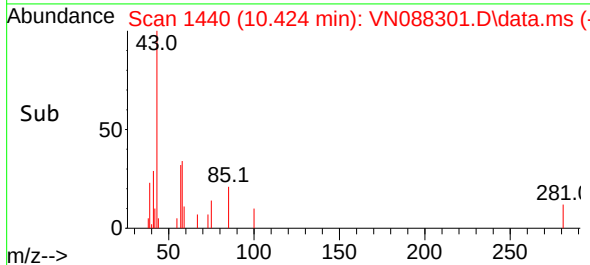
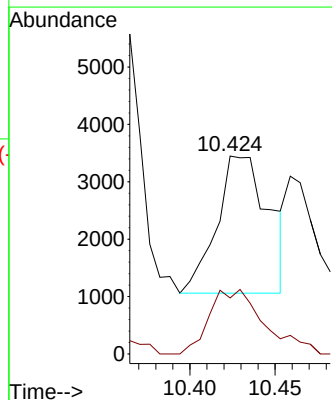
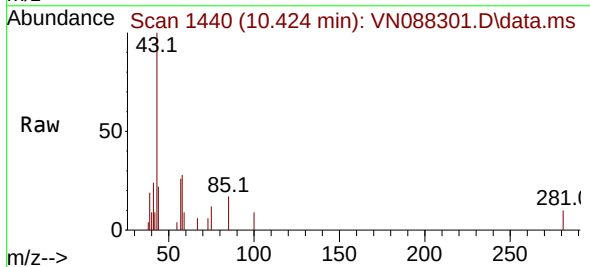
Instrument :
MSVOA_N
ClientSampleId :
TP-5

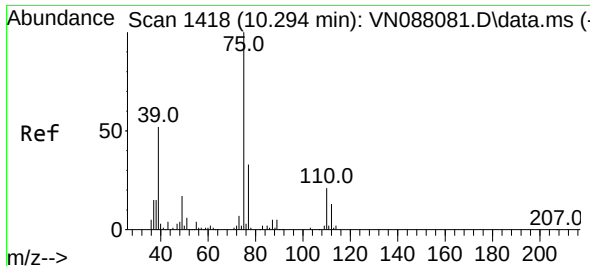
Tgt Ion: 98 Resp: 503393
Ion Ratio Lower Upper
98 100
100 63.5 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.039 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 43 Resp: 5051
Ion Ratio Lower Upper
43 100
58 50.1 29.6 44.4#

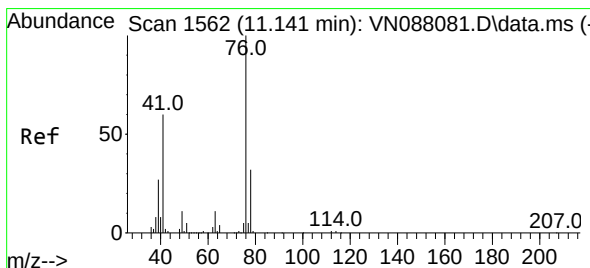
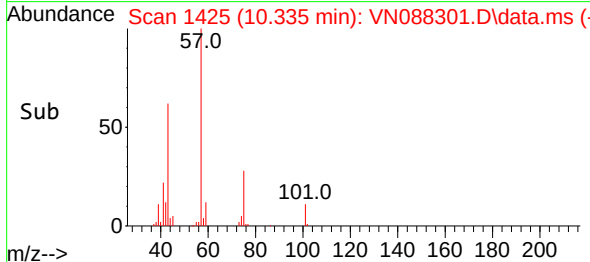
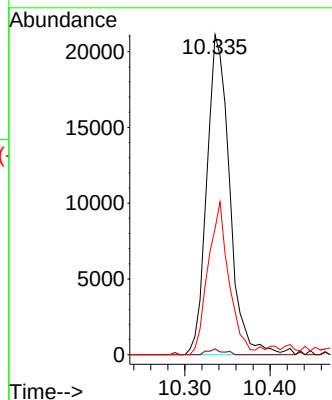
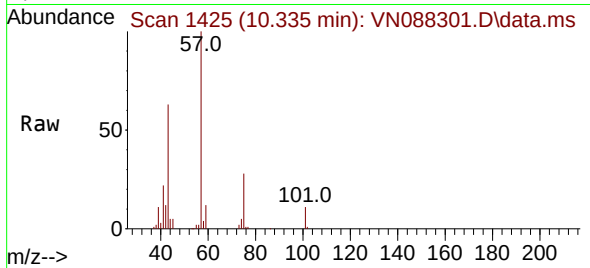




#54
 cis-1,3-Dichloropropene
 Concen: 7.608 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088301.D
 Acq: 17 Nov 2025 14:00

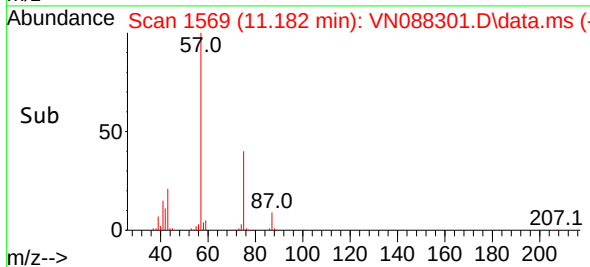
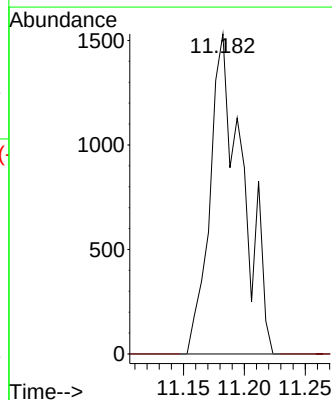
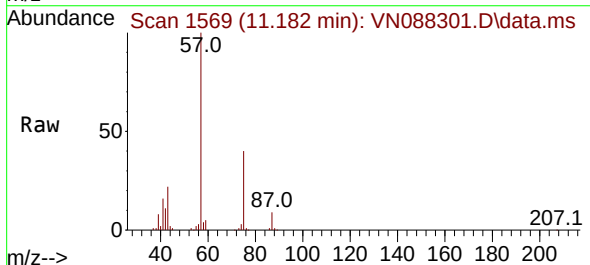
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

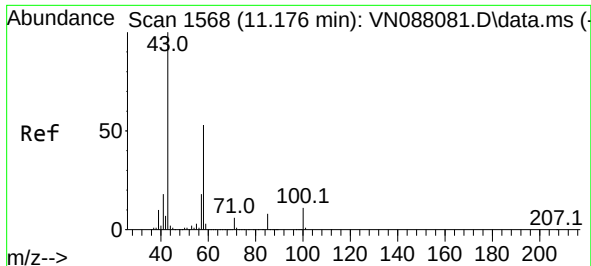
Tgt Ion: 75 Resp: 39105
 Ion Ratio Lower Upper
 75 100
 77 1.8 24.6 37.0#
 39 39.5 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.550 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088301.D
 Acq: 17 Nov 2025 14:00

Tgt Ion: 76 Resp: 2857
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

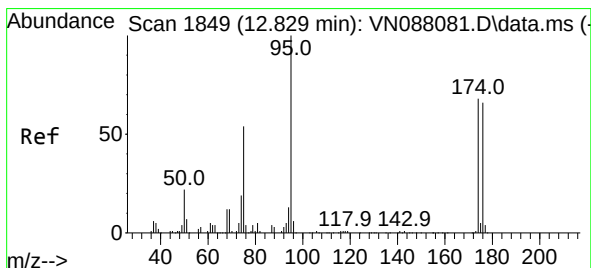
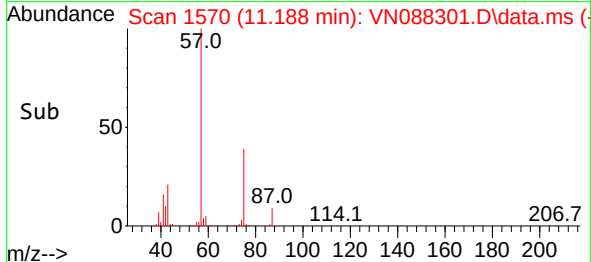
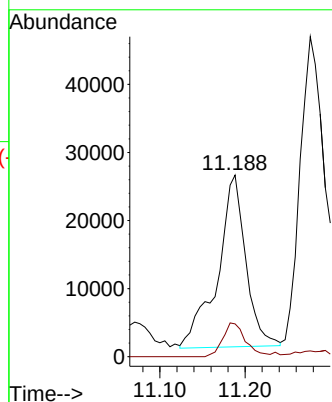
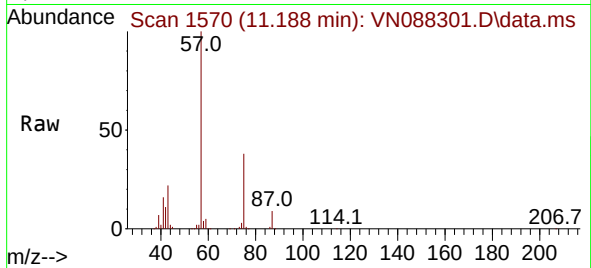




#59
2-Hexanone
Concen: 18.068 ug/l
RT: 11.188 min Scan# 1157
Delta R.T. 0.012 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

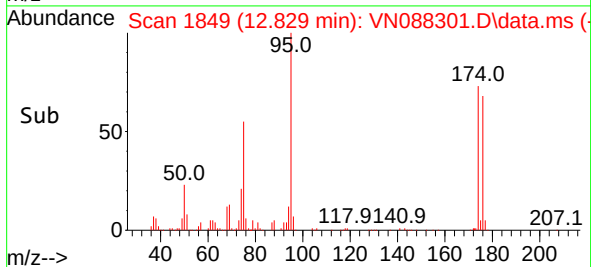
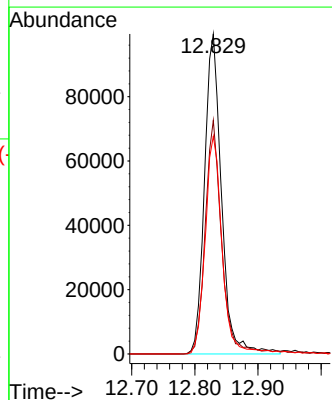
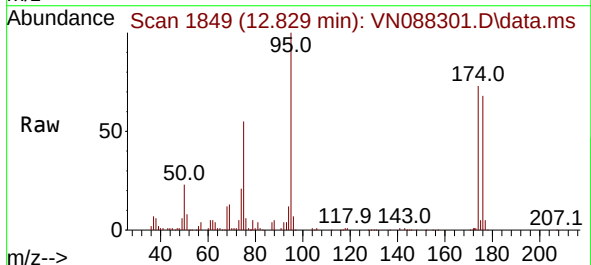
Instrument :
MSVOA_N
ClientSampleId :
TP-5

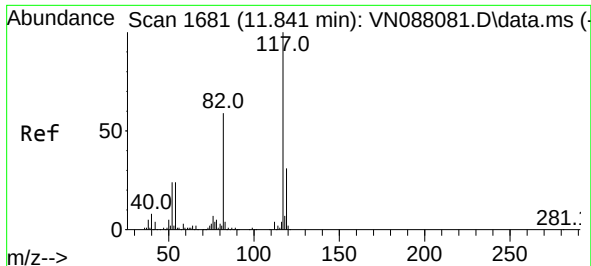
Tgt Ion: 43 Resp: 58290
Ion Ratio Lower Upper
43 100
58 15.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.083 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 95 Resp: 185775
Ion Ratio Lower Upper
95 100
174 70.4 0.0 138.4
176 68.6 0.0 132.6

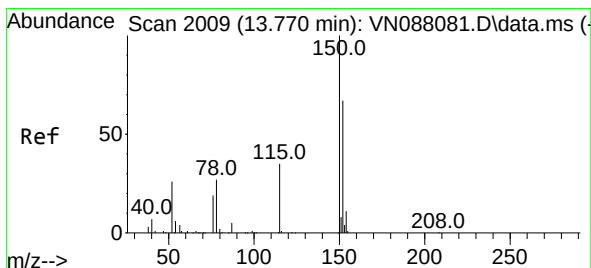
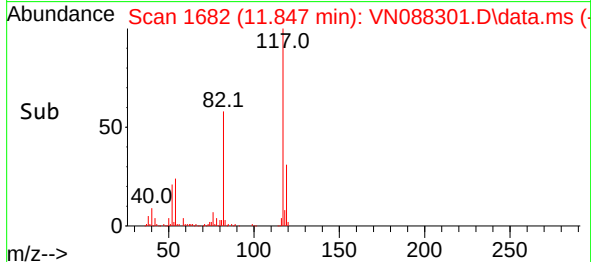
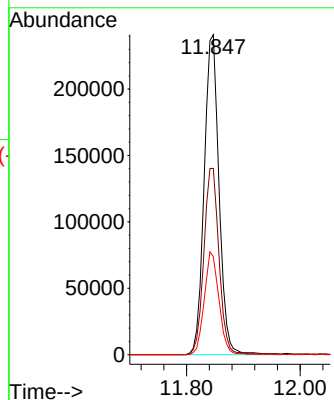
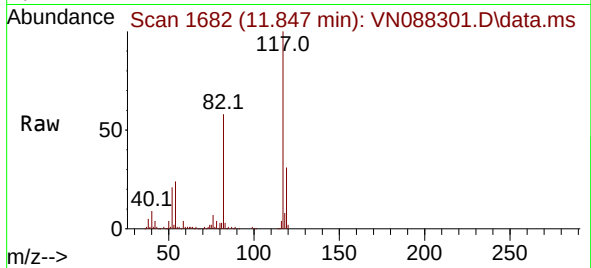




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

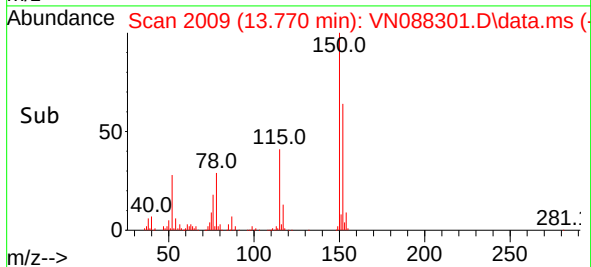
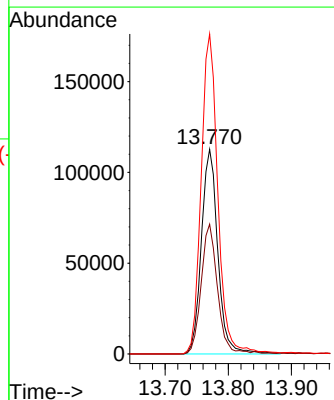
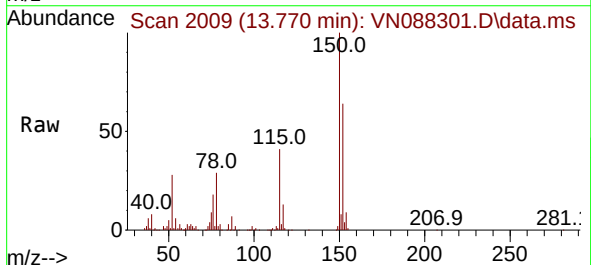
Instrument :
MSVOA_N
ClientSampleId :
TP-5

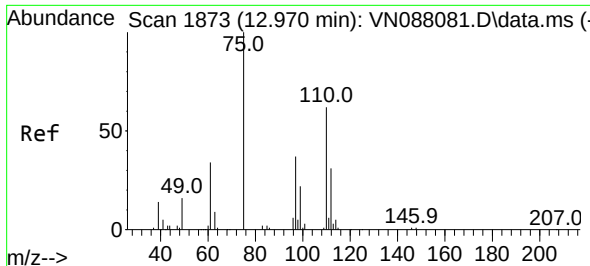
Tgt Ion:117 Resp: 437002
Ion Ratio Lower Upper
117 100
82 58.2 47.4 71.2
119 30.6 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion:152 Resp: 204472
Ion Ratio Lower Upper
152 100
115 63.0 32.3 96.8
150 157.8 0.0 351.0

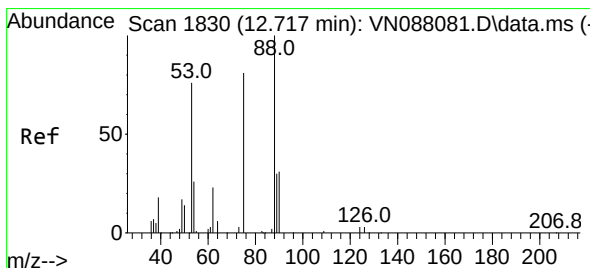
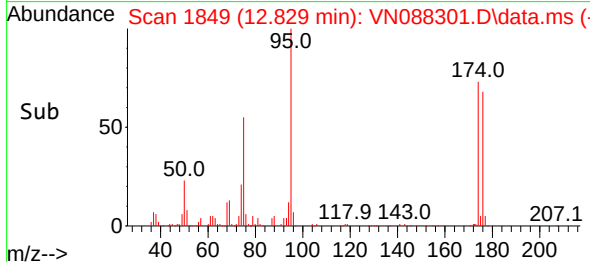
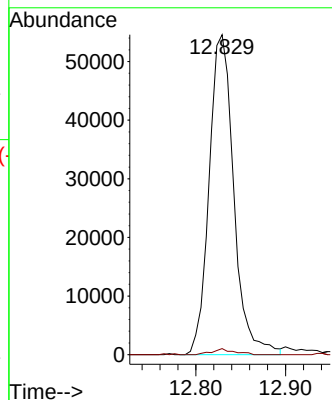
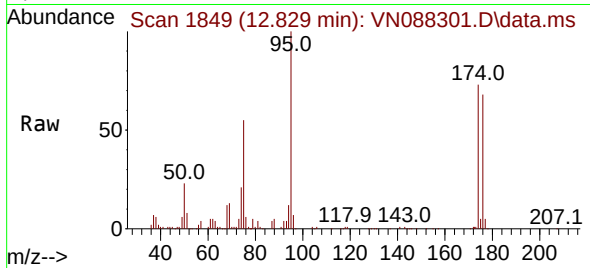




#76
1,2,3-Trichloropropane
Concen: 22.275 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Instrument :
MSVOA_N
ClientSampleId :
TP-5

Tgt Ion: 75 Resp: 104134
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.138 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088301.D
Acq: 17 Nov 2025 14:00

Tgt Ion: 75 Resp: 104134
Ion Ratio Lower Upper
75 100
53 0.3 101.8 152.6#
89 0.5 35.6 53.4#

