

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090825\
 Data File : VN087757.D
 Acq On : 08 Sep 2025 13:40
 Operator : JC\MD
 Sample : Q3023-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Sep 09 02:28:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

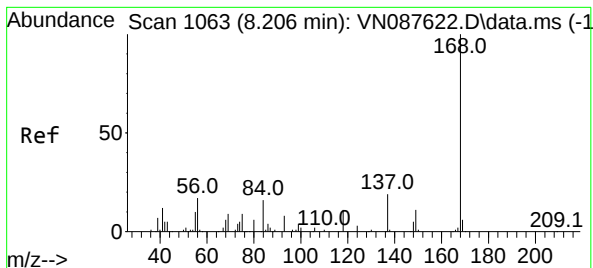
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	177578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	409804	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	404049	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	188140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	191072	52.516	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.040%	
35) Dibromofluoromethane	8.153	113	143729	48.577	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.160%	
50) Toluene-d8	10.541	98	544162	49.138	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.280%	
62) 4-Bromofluorobenzene	12.824	95	189781	48.188	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 96.380%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.983	94	352	0.227	ug/l	92
11) Tert butyl alcohol	5.524	59	2339	3.703	ug/l #	71
13) Acrolein	4.195	56	537	0.692	ug/l #	62
16) Acetone	4.418	43	47894	24.181	ug/l	100
17) Carbon Disulfide	4.712	76	2231	0.317	ug/l #	77
18) Methyl Acetate	5.024	43	30668	7.395	ug/l	99
20) Methylene Chloride	5.265	84	10440	2.464	ug/l	89
25) 2-Butanone	7.471	43	26308	10.096	ug/l	99
29) Tetrahydrofuran	7.847	42	1439	0.858	ug/l #	62
31) Cyclohexane	8.200	56	5847	1.278	ug/l #	1
36) 1,1-Dichloropropene	8.212	75	17738	3.908	ug/l #	51
37) Ethyl Acetate	7.553	43	19439	3.134	ug/l	99
38) Carbon Tetrachloride	8.206	117	21190	4.728	ug/l #	17
43) Isopropyl Acetate	8.677	43	14204	1.467	ug/l #	92
45) 1,2-Dichloropropane	9.730	63	1758	0.479	ug/l #	43
48) Methyl methacrylate	9.724	41	102872	22.458	ug/l #	47
49) 1,4-Dioxane	9.683	88	103	1.735	ug/l #	13
51) 4-Methyl-2-Pentanone	10.424	43	7804	1.336	ug/l #	82
54) cis-1,3-Dichloropropene	10.341	75	57694	10.030	ug/l #	62
57) 1,3-Dichloropropane	11.188	76	3316	0.561	ug/l #	42
59) 2-Hexanone	11.182	43	57925	15.687	ug/l #	59
74) N-amyl acetate	12.512	43	1584	0.275	ug/l #	61
76) 1,2,3-Trichloropropane	12.824	75	107356	24.333	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.824	75	107356	64.418	ug/l #	1

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

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QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

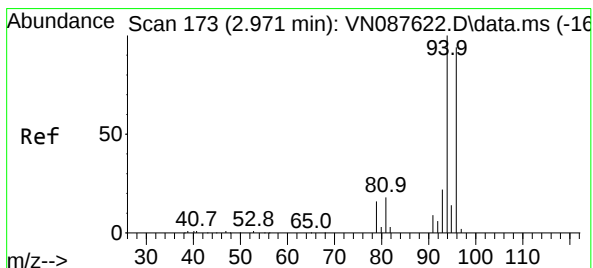
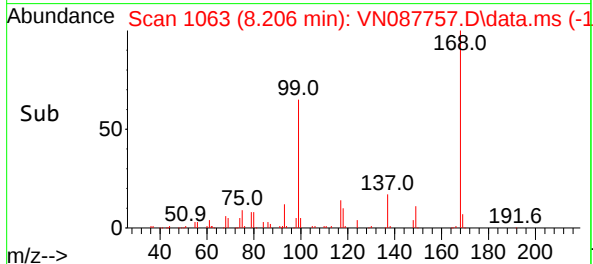
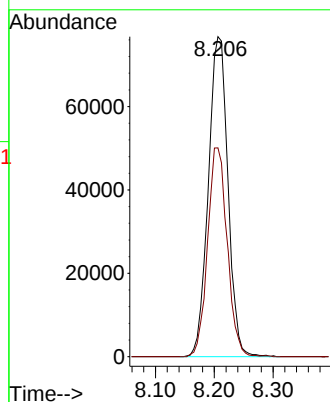
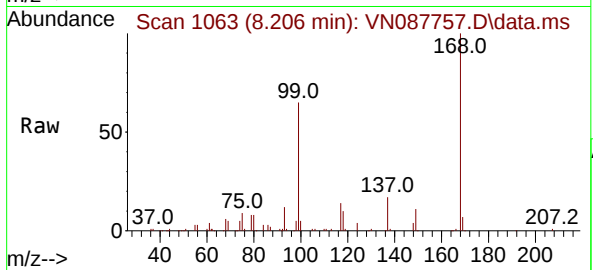




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

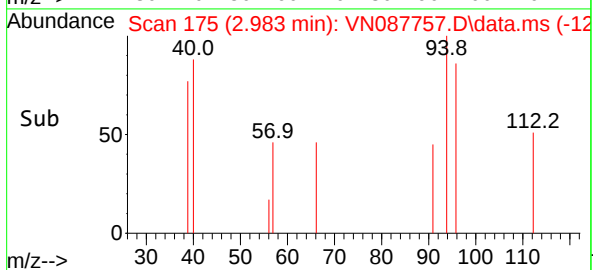
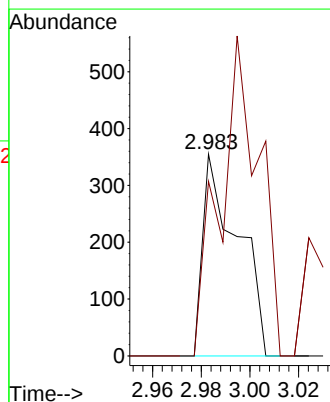
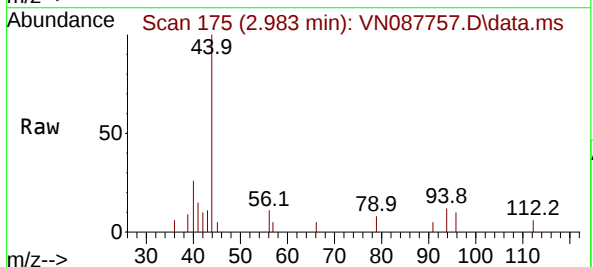
Instrument :
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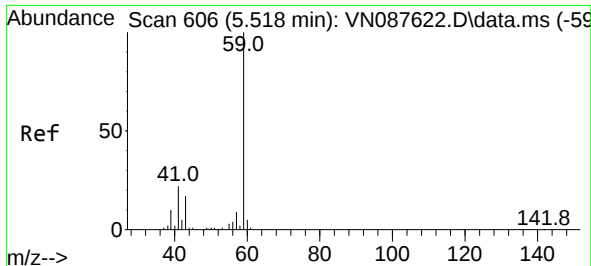
Tgt Ion:168 Resp: 177578
Ion Ratio Lower Upper
168 100
99 65.3 57.2 85.8



#5
Bromomethane
Concen: 0.227 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 94 Resp: 352
Ion Ratio Lower Upper
94 100
96 86.5 75.4 113.2

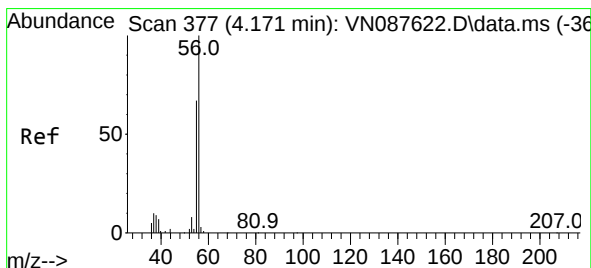
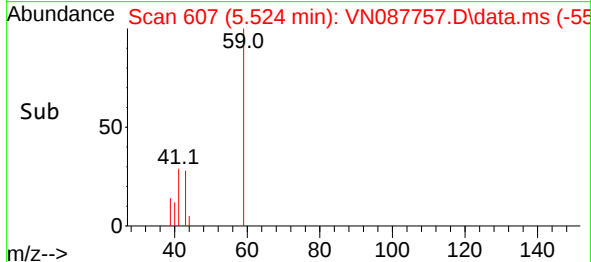
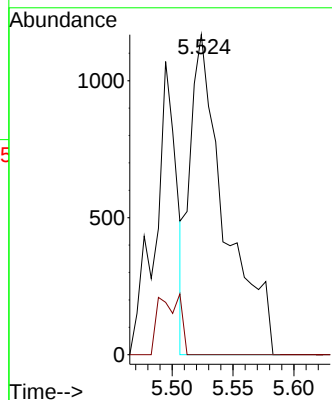
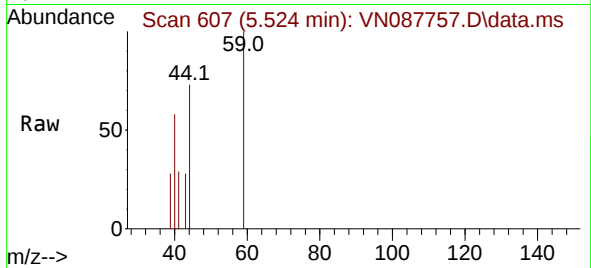




#11
Tert butyl alcohol
Concen: 3.703 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

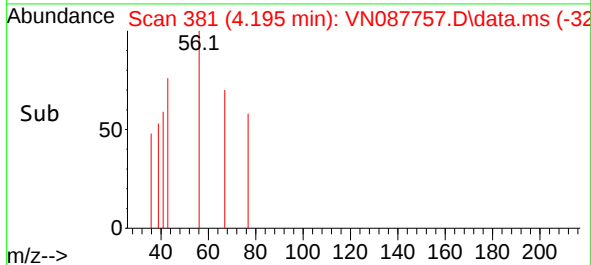
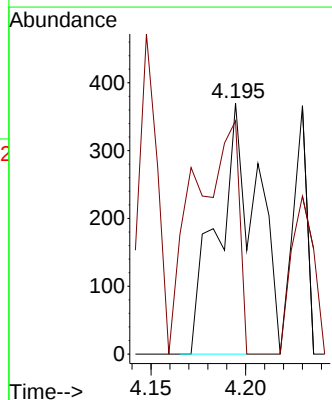
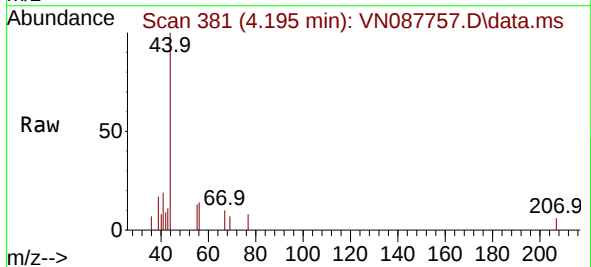
Instrument :
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ClientSampleId :
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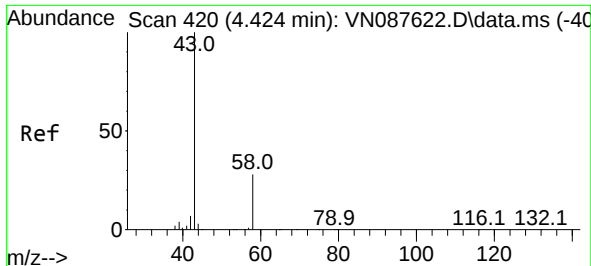
Tgt Ion: 59 Resp: 2339
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.692 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.024 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 56 Resp: 537
Ion Ratio Lower Upper
56 100
55 103.2 57.3 85.9#

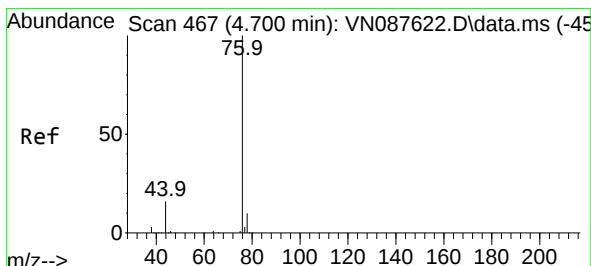
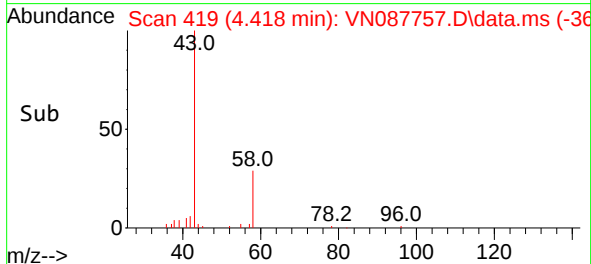
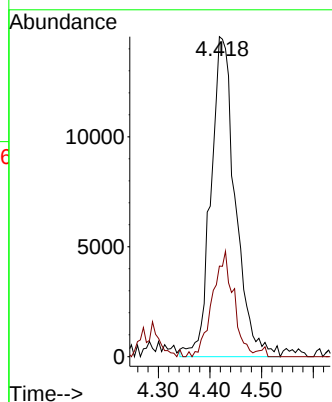
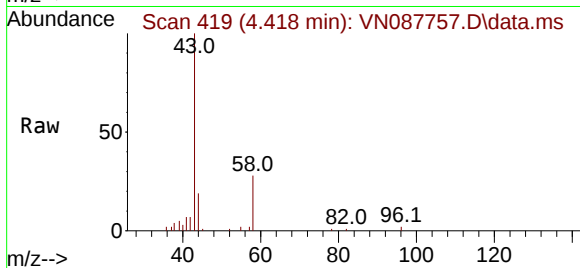




#16
Acetone
Concen: 24.181 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

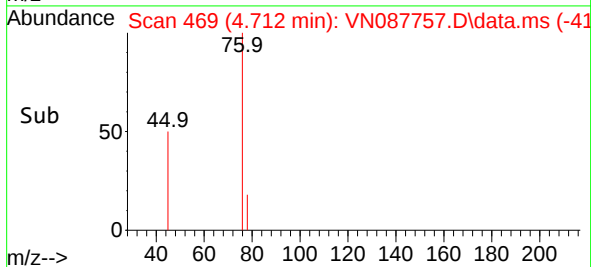
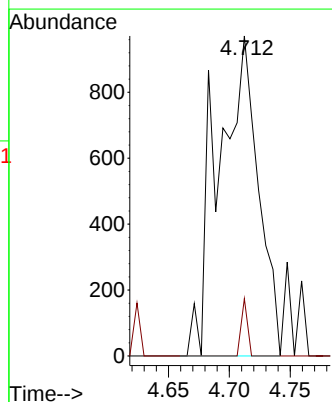
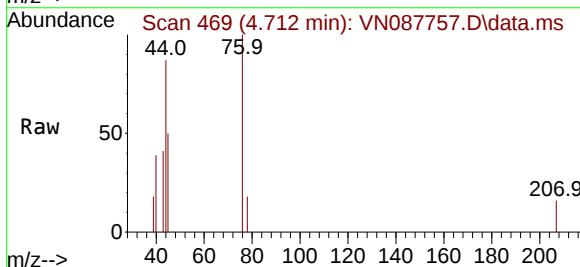
Instrument :
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ClientSampleId :
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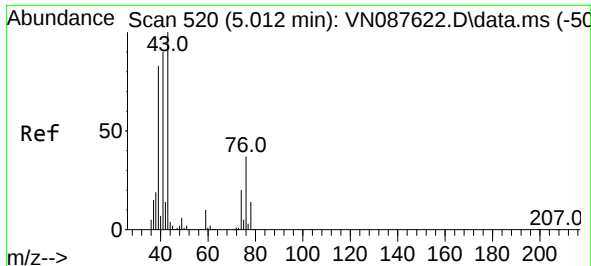
Tgt Ion: 43 Resp: 47894
Ion Ratio Lower Upper
43 100
58 28.3 22.6 33.8



#17
Carbon Disulfide
Concen: 0.317 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 76 Resp: 2231
Ion Ratio Lower Upper
76 100
78 17.9 7.6 11.4#

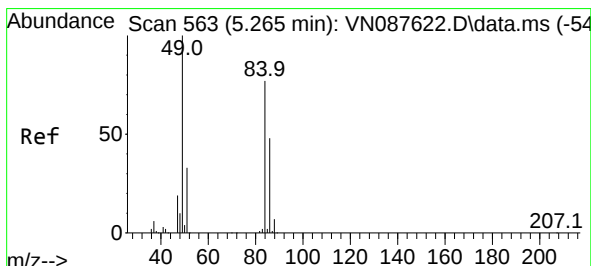
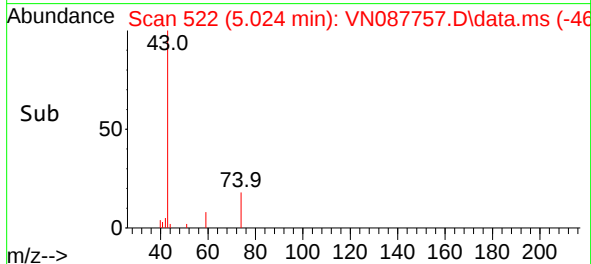
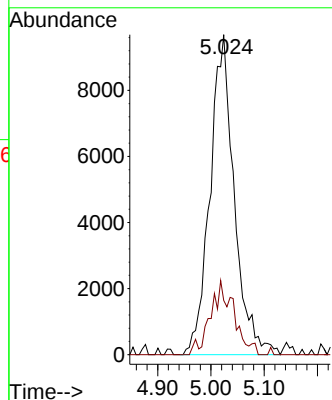
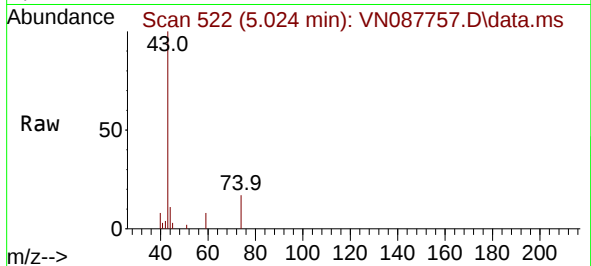




#18
Methyl Acetate
Concen: 7.395 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

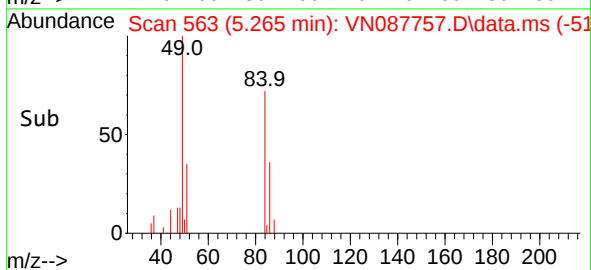
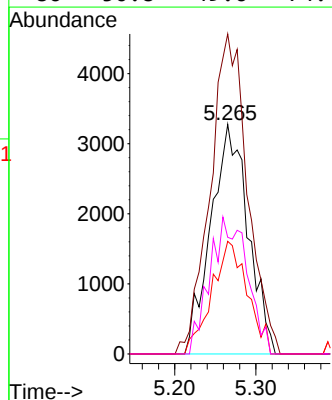
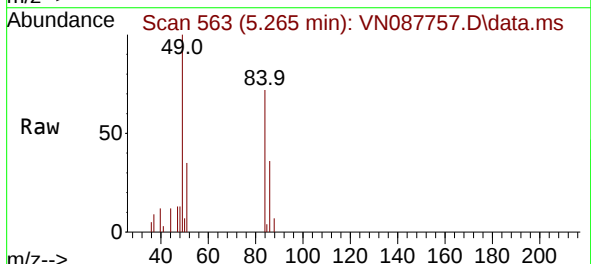
Instrument :
MSVOA_N
ClientSampleId :
TP-1

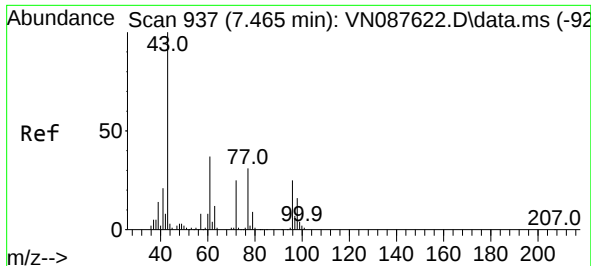
Tgt Ion: 43 Resp: 30668
Ion Ratio Lower Upper
43 100
74 21.4 17.6 26.4



#20
Methylene Chloride
Concen: 2.464 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 84 Resp: 10440
Ion Ratio Lower Upper
84 100
49 139.4 103.4 155.2
51 49.1 33.8 50.8
86 50.8 49.6 74.4

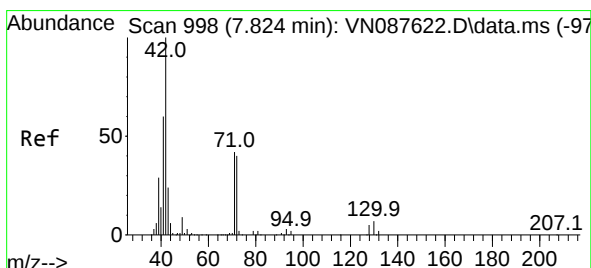
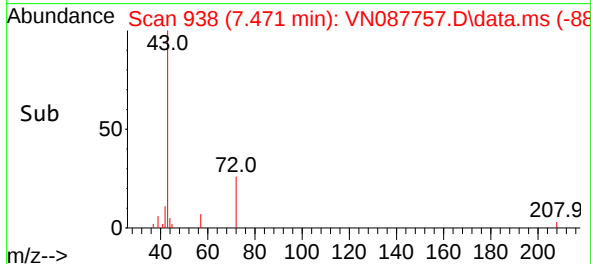
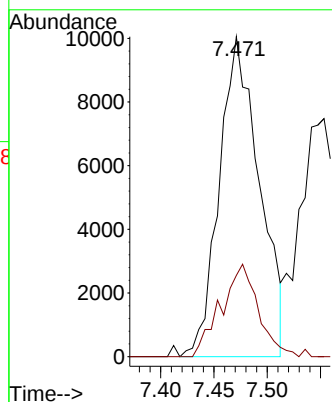
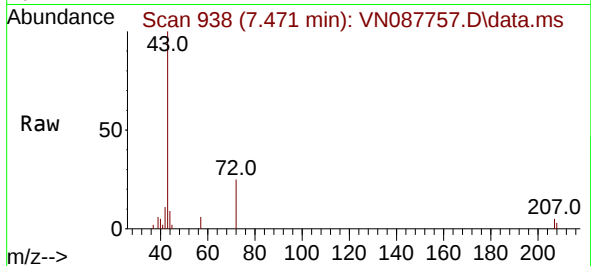




#25
2-Butanone
Concen: 10.096 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

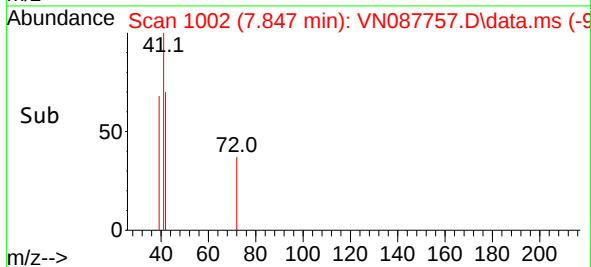
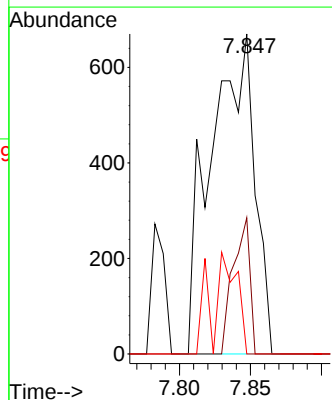
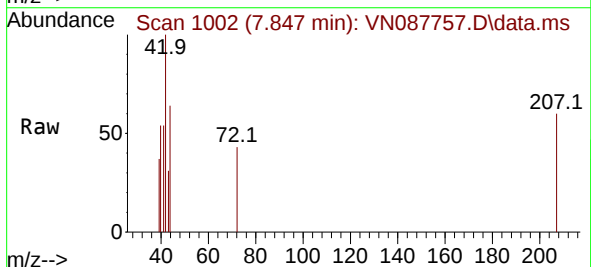
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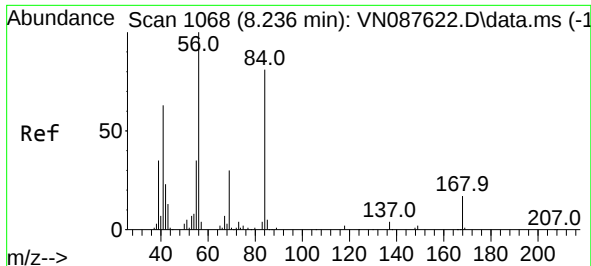
Tgt Ion: 43 Resp: 26308
Ion Ratio Lower Upper
43 100
72 25.4 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.858 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.024 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 42 Resp: 1439
Ion Ratio Lower Upper
42 100
72 16.3 33.7 50.5#
71 18.1 31.9 47.9#

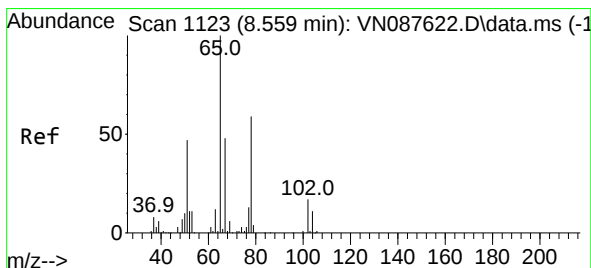
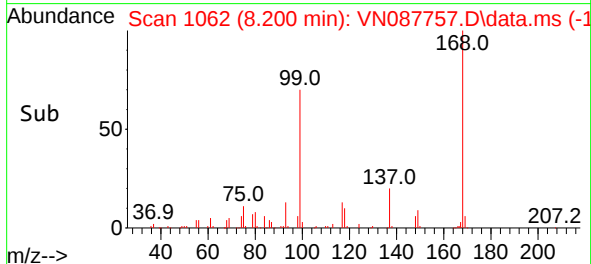
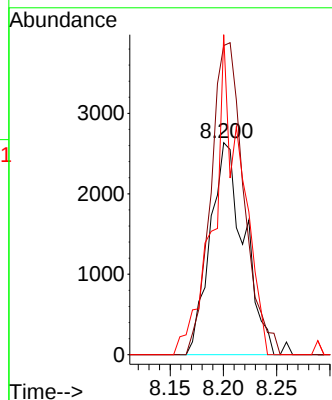
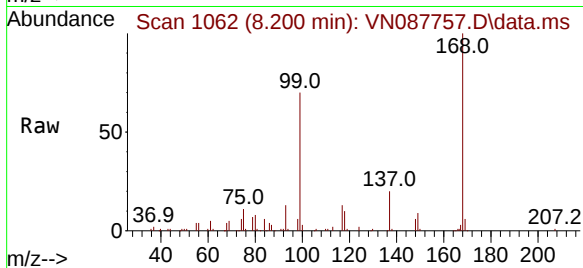




#31
Cyclohexane
Concen: 1.278 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

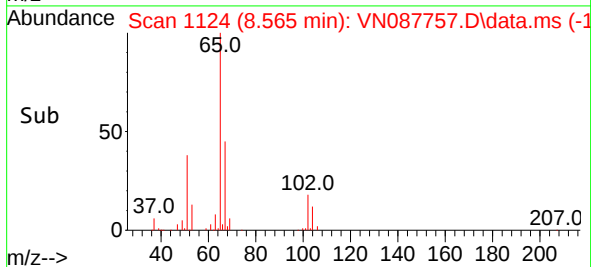
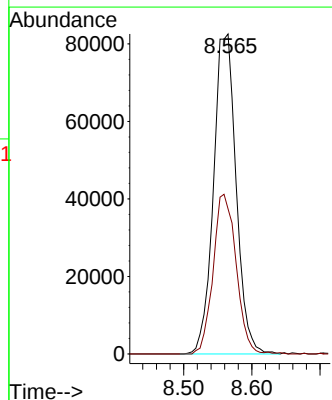
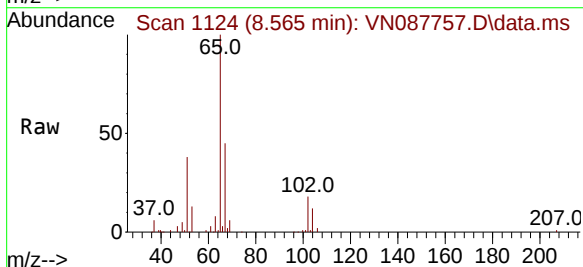
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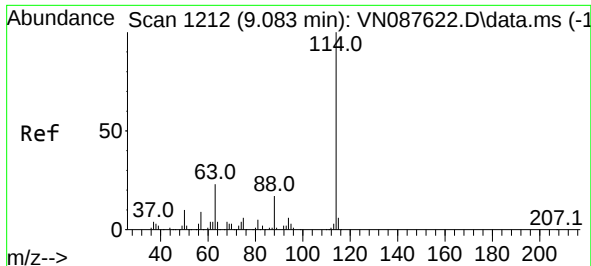
Tgt Ion: 56 Resp: 5847
Ion Ratio Lower Upper
56 100
69 145.8 23.7 35.5#
84 163.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 52.516 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 65 Resp: 191072
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.0

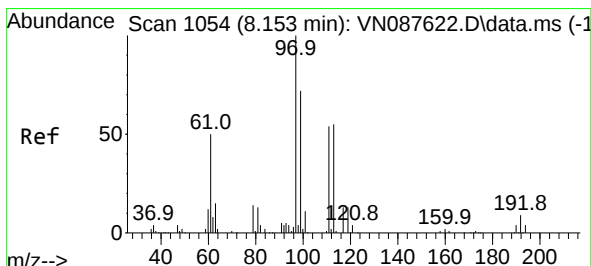
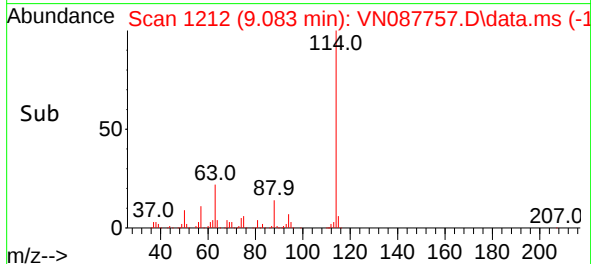
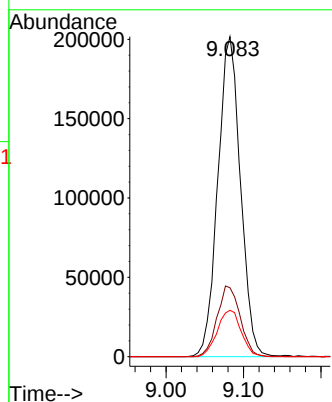
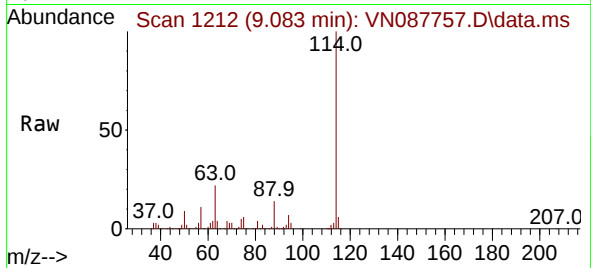




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

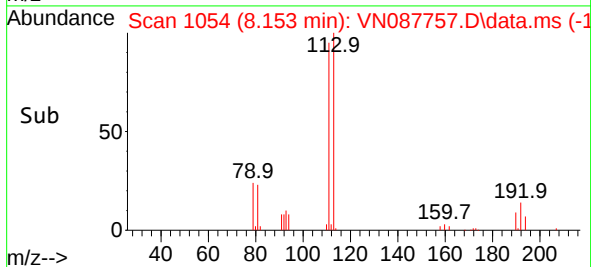
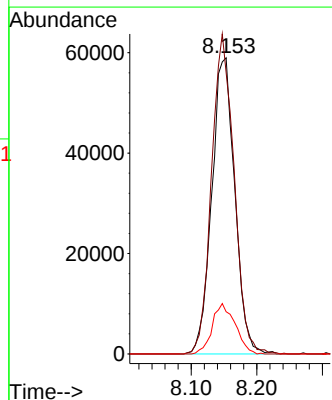
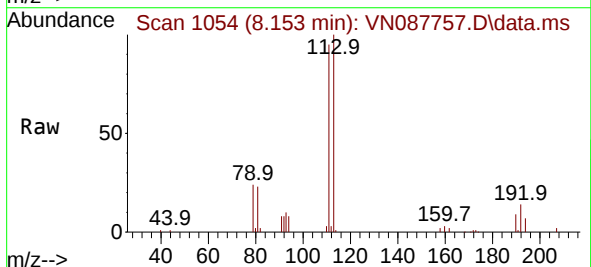
Instrument :
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ClientSampleId :
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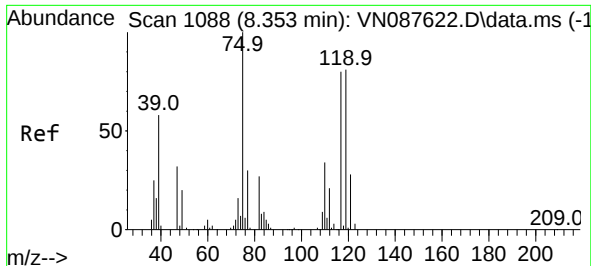
Tgt Ion:114 Resp: 409804
Ion Ratio Lower Upper
114 100
63 21.5 0.0 45.2
88 14.5 0.0 33.4



#35
Dibromofluoromethane
Concen: 48.577 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion:113 Resp: 143729
Ion Ratio Lower Upper
113 100
111 105.5 82.8 124.2
192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.908 ug/l

RT: 8.212 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

TP-1

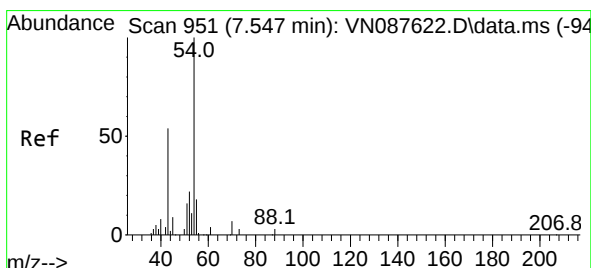
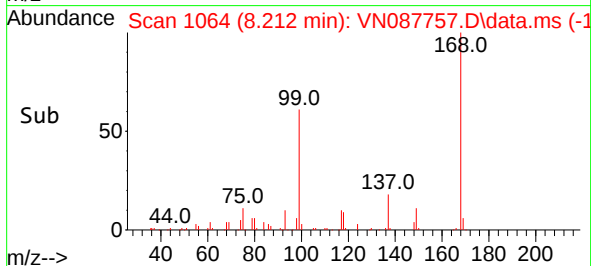
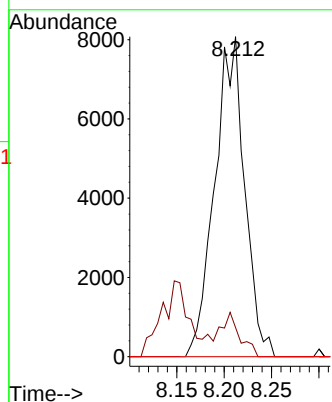
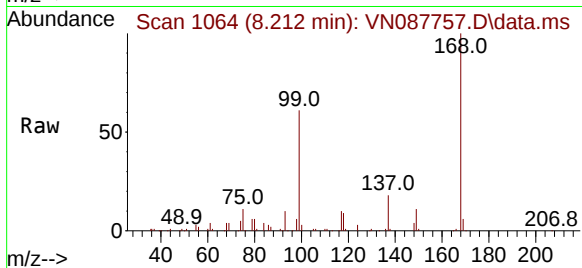
Tgt Ion: 75 Resp: 17738

Ion Ratio Lower Upper

75 100

110 8.7 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 3.134 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

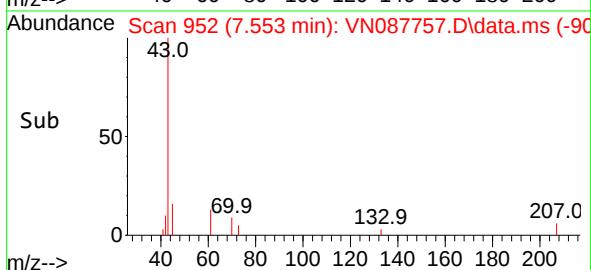
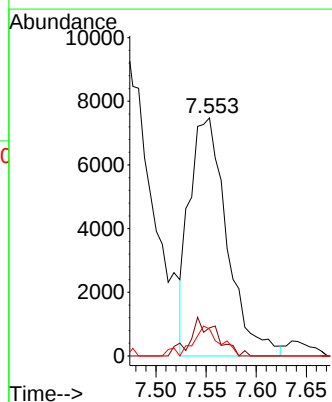
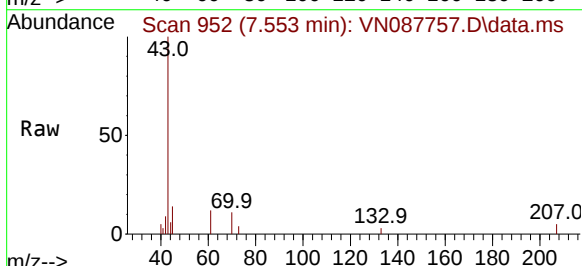
Tgt Ion: 43 Resp: 19439

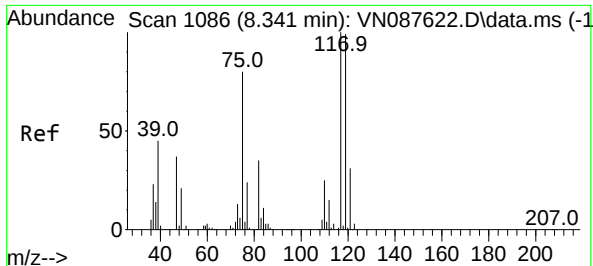
Ion Ratio Lower Upper

43 100

61 11.6 9.3 13.9

70 8.4 7.0 10.6

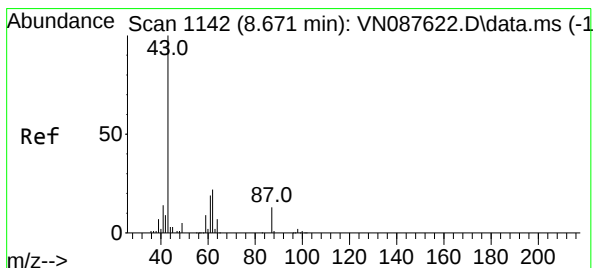
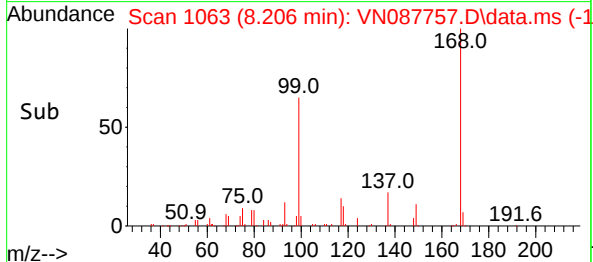
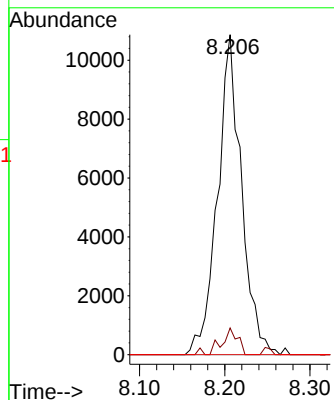
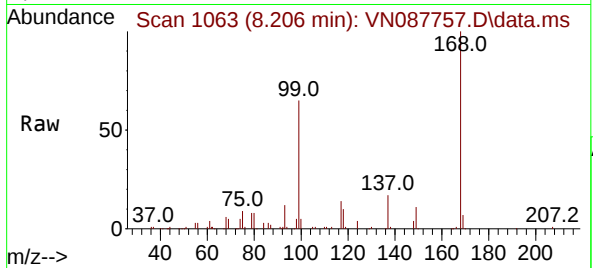




#38
Carbon Tetrachloride
Concen: 4.728 ug/l
RT: 8.206 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

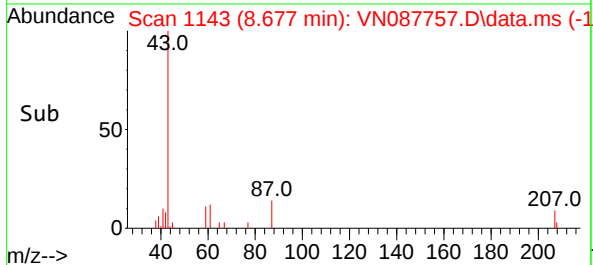
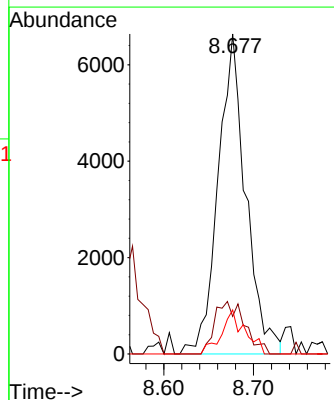
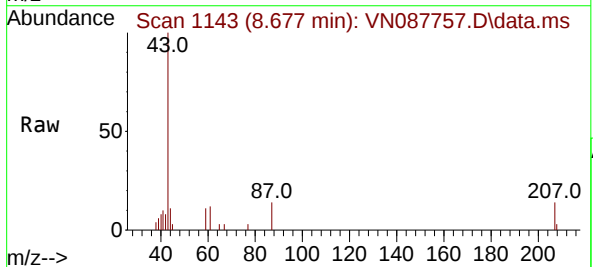
Instrument :
MSVOA_N
ClientSampleId :
TP-1

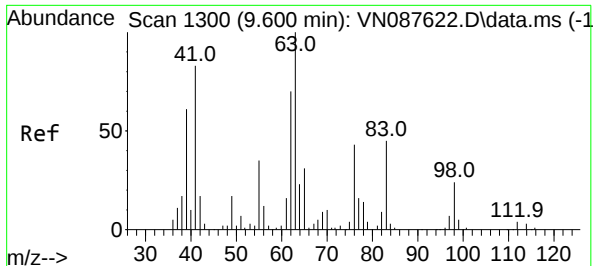
Tgt Ion:117 Resp: 21190
Ion Ratio Lower Upper
117 100
119 8.4 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.467 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 43 Resp: 14204
Ion Ratio Lower Upper
43 100
61 17.7 18.8 28.2#
87 11.6 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.479 ug/l

RT: 9.730 min Scan# 1322

Delta R.T. 0.129 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

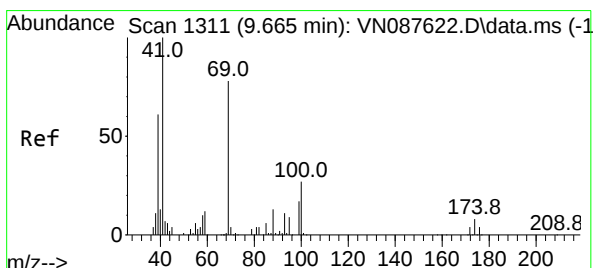
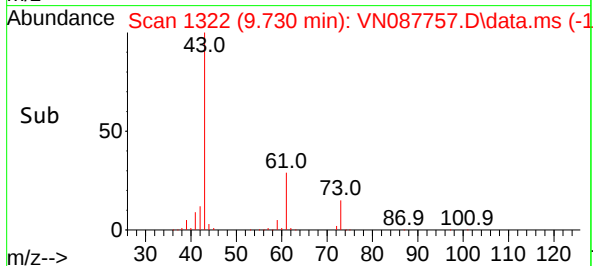
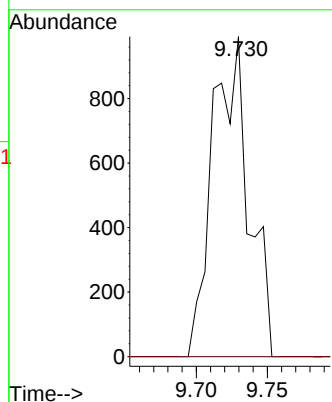
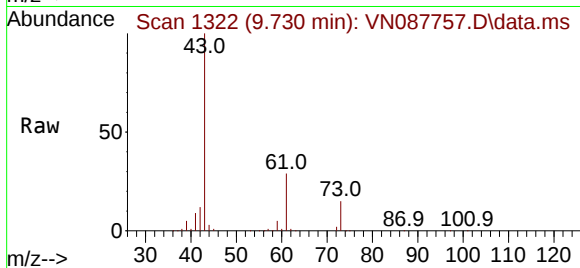
TP-1

Tgt Ion: 63 Resp: 1758

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 22.458 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

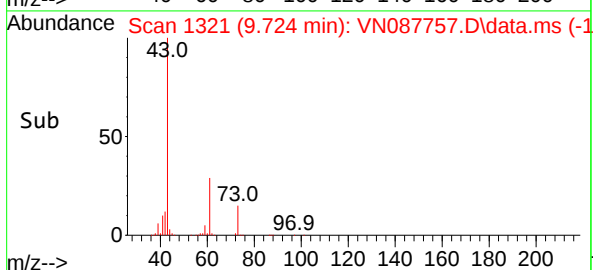
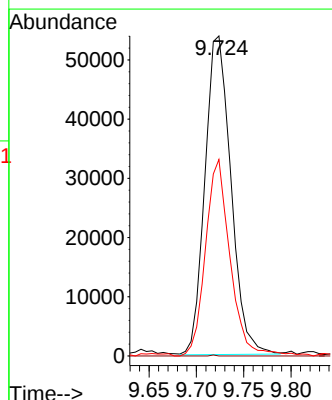
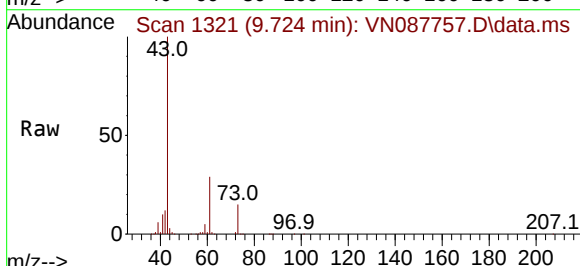
Tgt Ion: 41 Resp: 102872

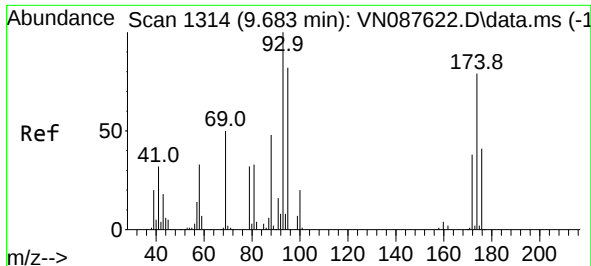
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 58.6 52.9 79.3





#49

1,4-Dioxane

Concen: 1.735 ug/l

RT: 9.683 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

TP-1

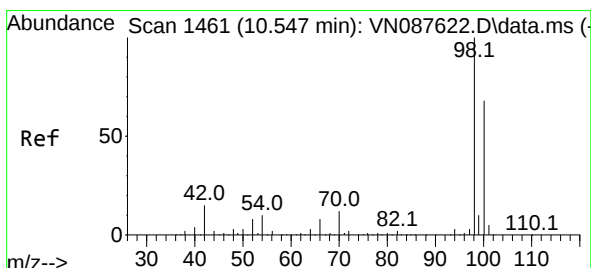
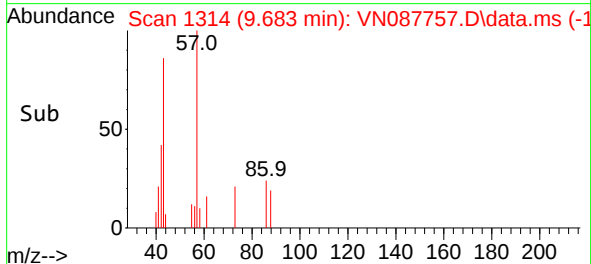
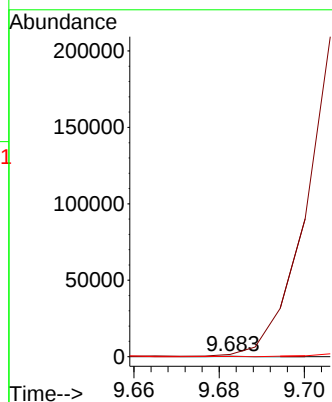
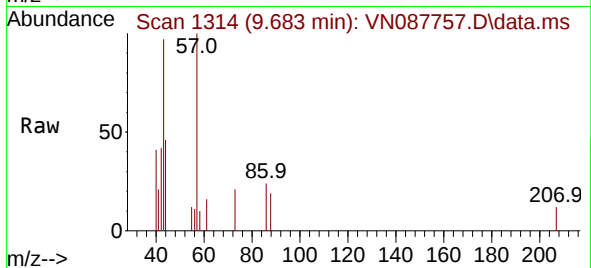
Tgt Ion: 88 Resp: 103

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 49.138 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN087757.D

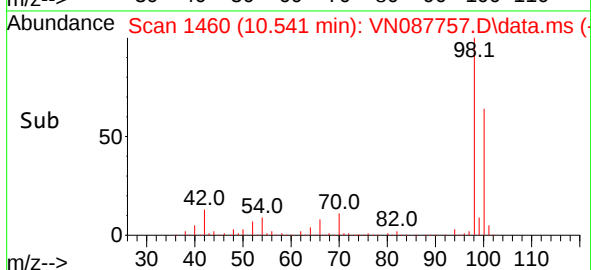
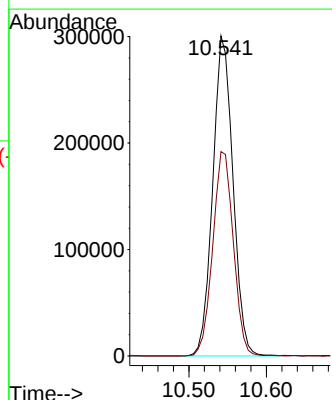
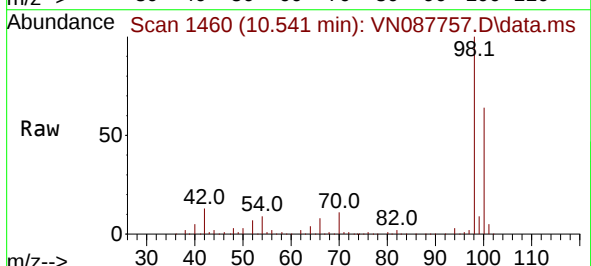
Acq: 08 Sep 2025 13:40

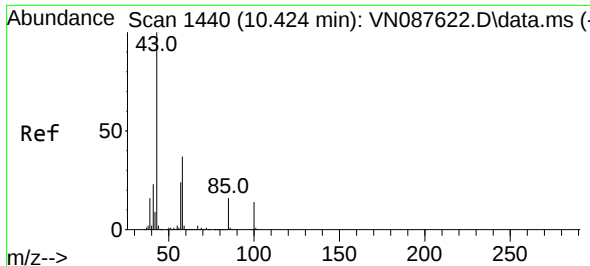
Tgt Ion: 98 Resp: 544162

Ion Ratio Lower Upper

98 100

100 65.2 52.8 79.2

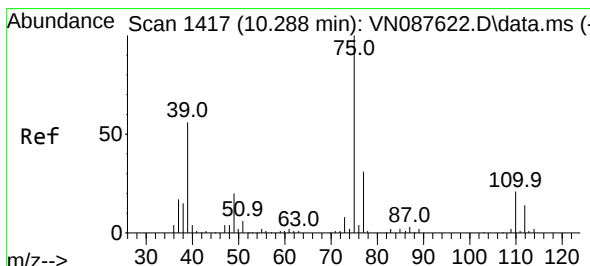
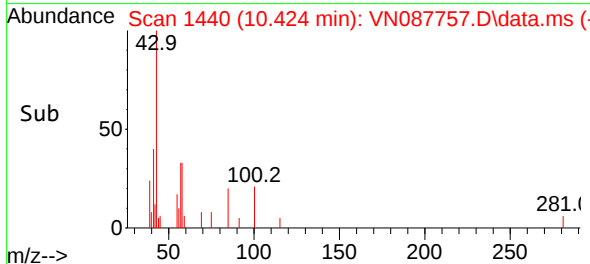
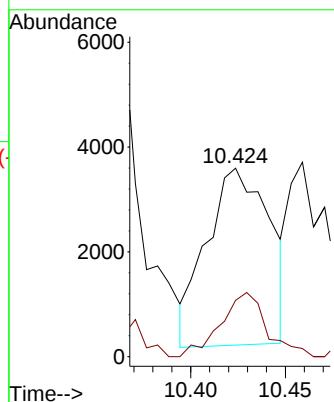
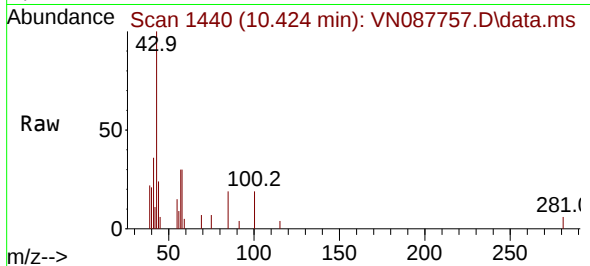




#51
4-Methyl-2-Pentanone
Concen: 1.336 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

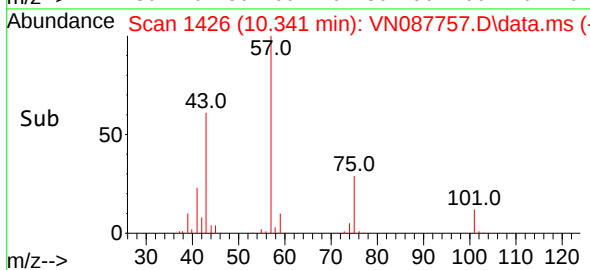
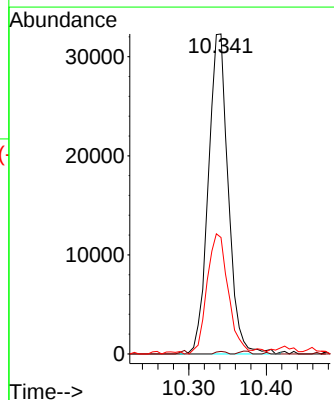
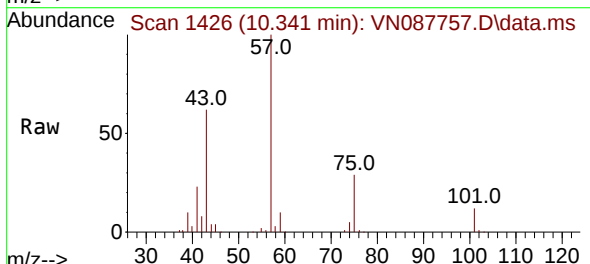
Instrument :
MSVOA_N
ClientSampleId :
TP-1

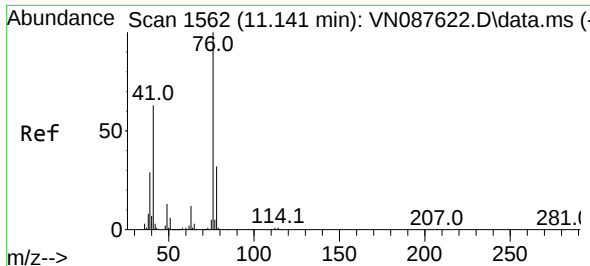
Tgt Ion: 43 Resp: 7804
Ion Ratio Lower Upper
43 100
58 26.5 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 10.030 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 75 Resp: 57694
Ion Ratio Lower Upper
75 100
77 0.8 24.6 37.0#
39 35.7 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.561 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087757.D

Acq: 08 Sep 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

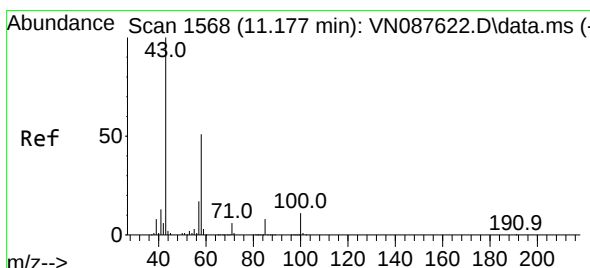
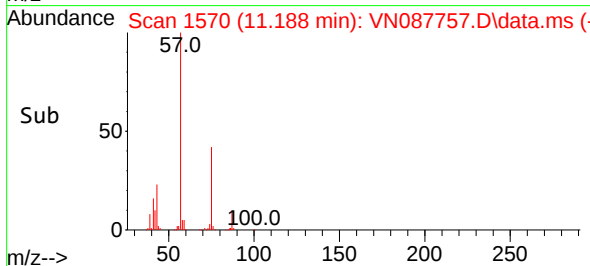
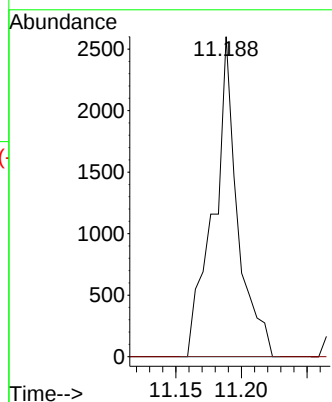
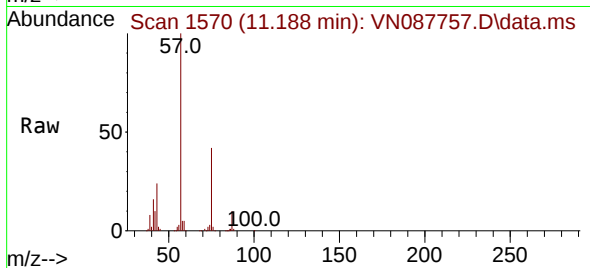
TP-1

Tgt Ion: 76 Resp: 3316

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 15.687 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN087757.D

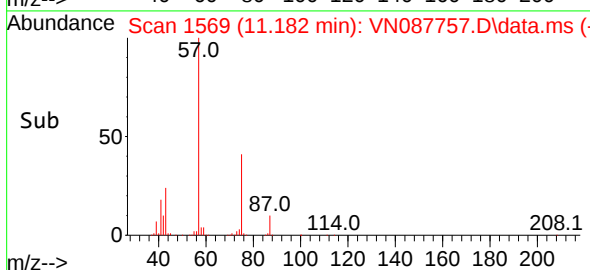
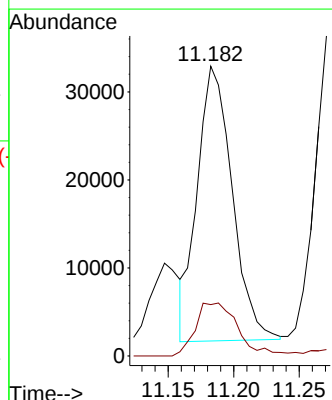
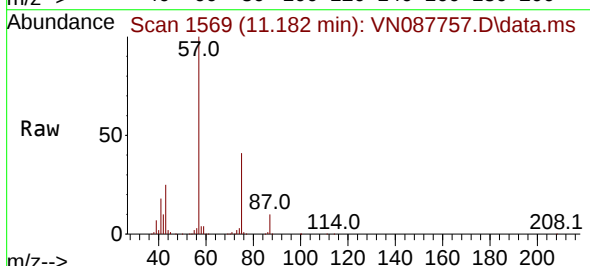
Acq: 08 Sep 2025 13:40

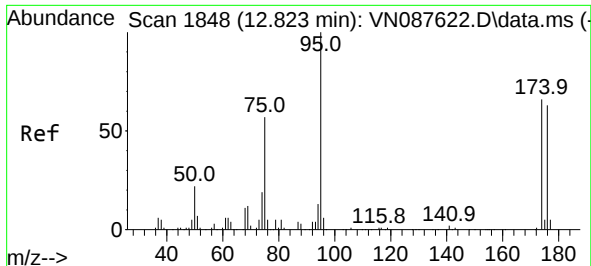
Tgt Ion: 43 Resp: 57925

Ion Ratio Lower Upper

43 100

58 23.4 25.9 77.8#

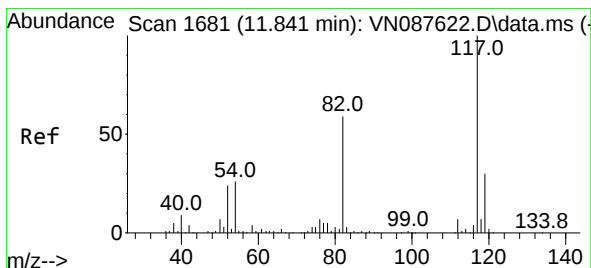
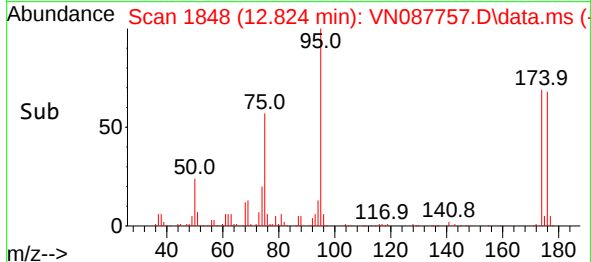
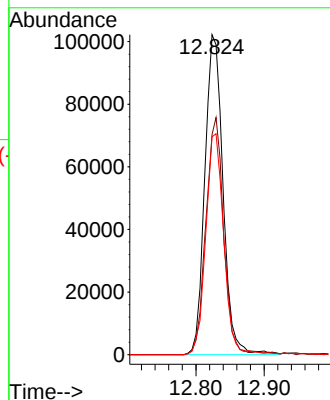
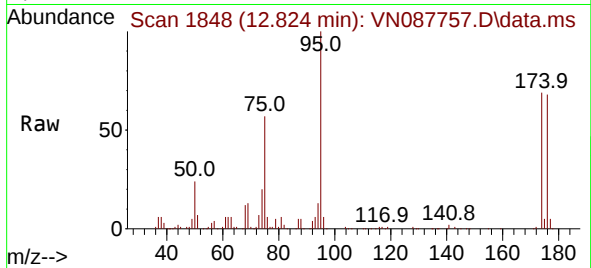




#62
4-Bromofluorobenzene
Concen: 48.188 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

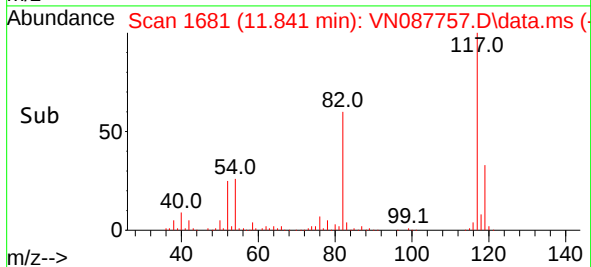
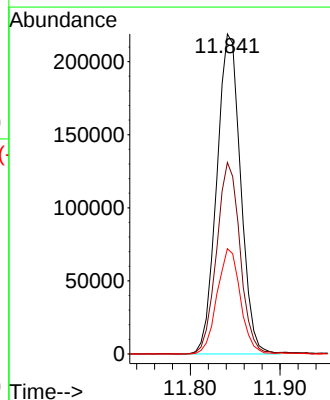
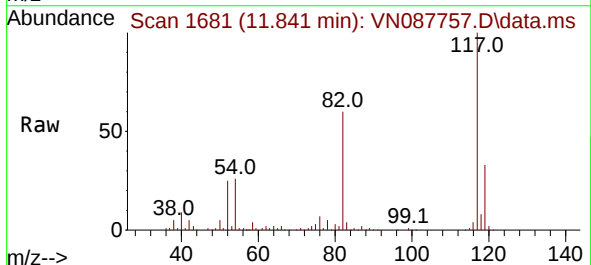
Instrument :
MSVOA_N
ClientSampleId :
TP-1

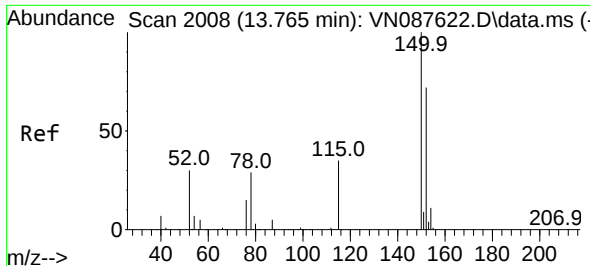
Tgt Ion: 95 Resp: 189781
Ion Ratio Lower Upper
95 100
174 72.1 0.0 138.4
176 68.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 117 Resp: 404049
Ion Ratio Lower Upper
117 100
82 59.9 47.4 71.2
119 32.9 24.3 36.5

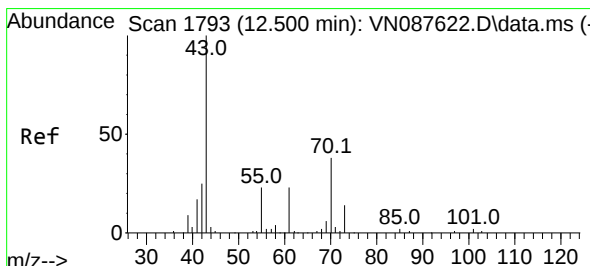
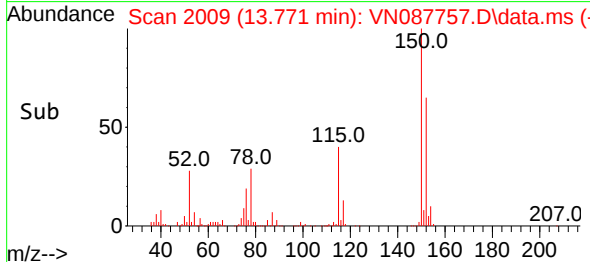
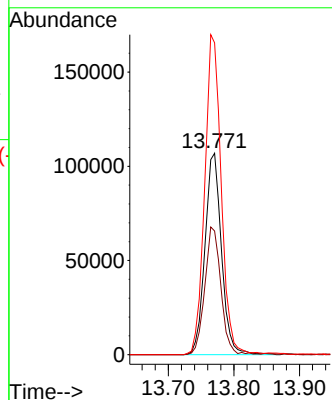
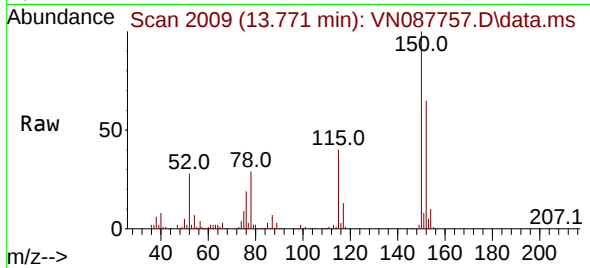




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

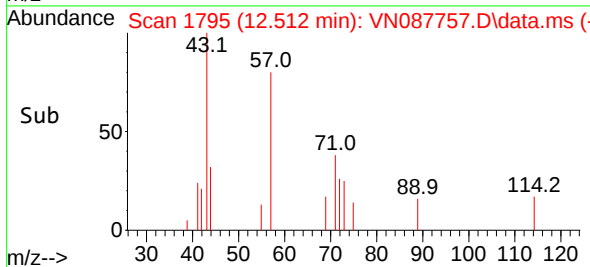
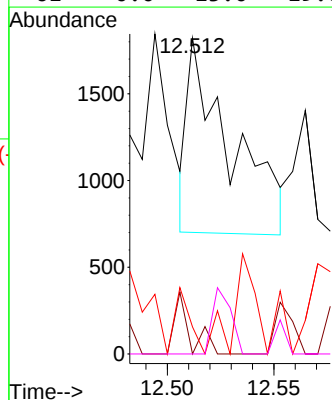
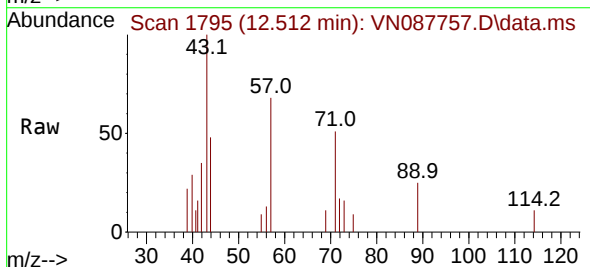
Instrument :
MSVOA_N
ClientSampleId :
TP-1

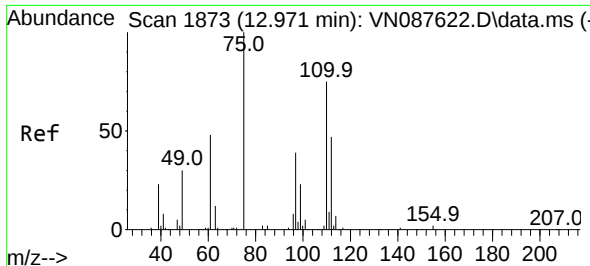
Tgt Ion:152 Resp: 188140
Ion Ratio Lower Upper
152 100
115 61.6 32.3 96.8
150 158.2 0.0 351.0



#74
N-ethyl acetate
Concen: 0.275 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.012 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 43 Resp: 1584
Ion Ratio Lower Upper
43 100
70 11.5 27.6 41.4#
55 0.0 13.0 19.6#
61 0.0 13.0 19.6#

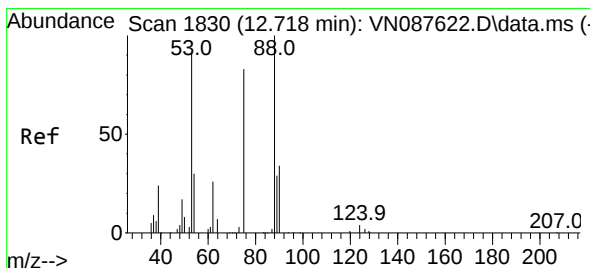
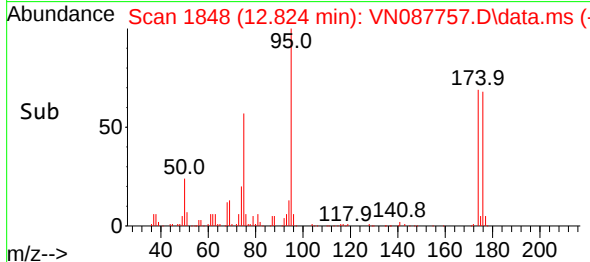
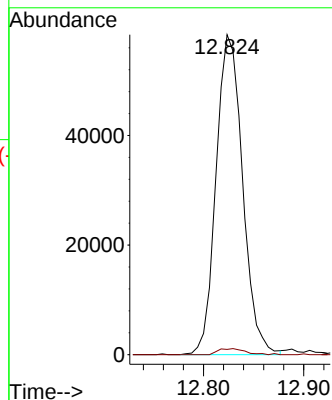
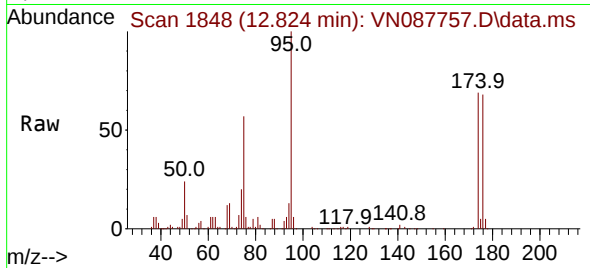




#76
1,2,3-Trichloropropane
Concen: 24.333 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tgt Ion: 75 Resp: 107356
Ion Ratio Lower Upper
75 100
77 2.0 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.418 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN087757.D
Acq: 08 Sep 2025 13:40

Tgt Ion: 75 Resp: 107356
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.2 35.6 53.4#

