

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087806.D
 Acq On : 11 Sep 2025 18:11
 Operator : JC\MD
 Sample : Q3083-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3S

Quant Time: Sep 12 02:57:27 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

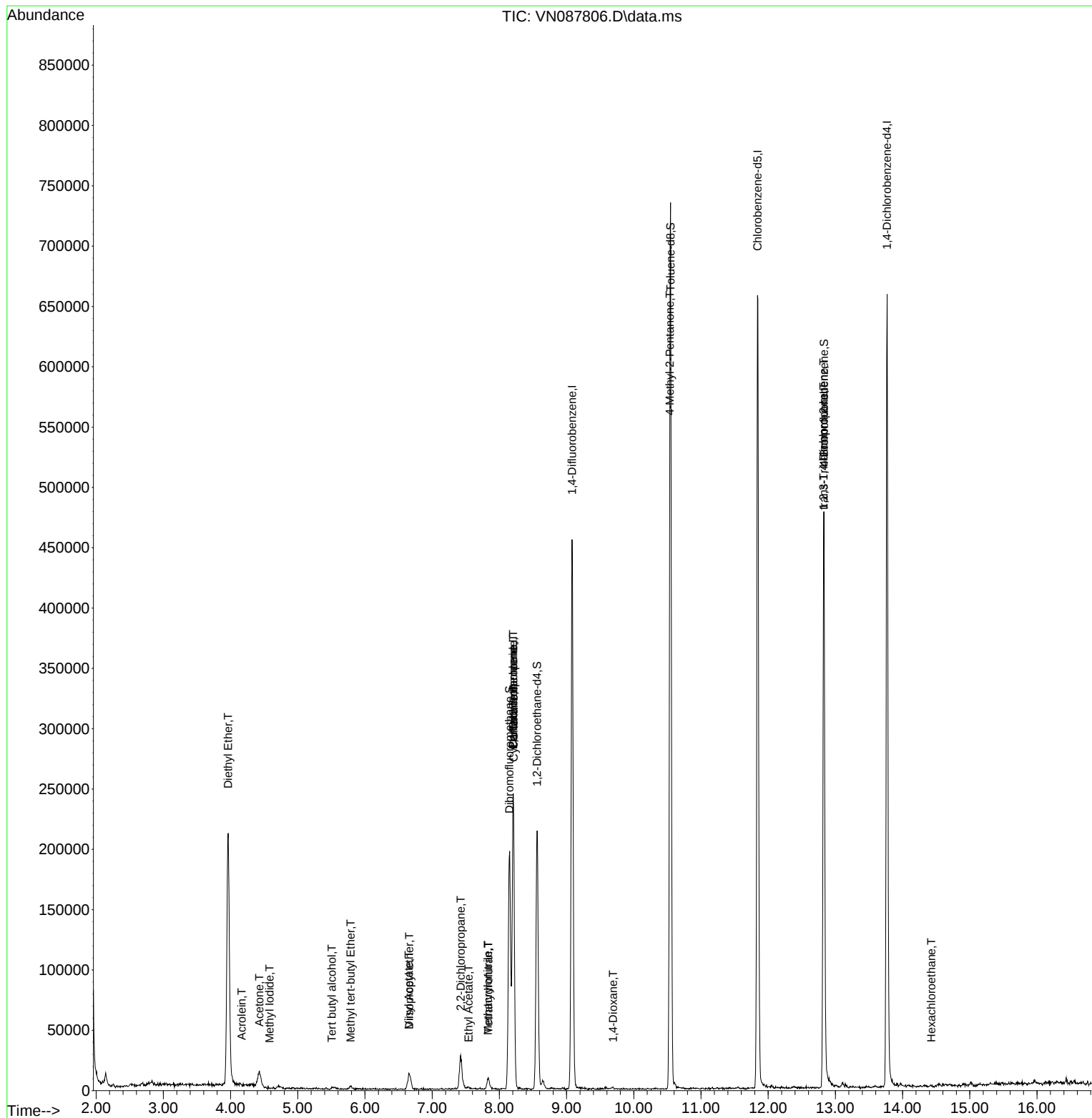
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	165866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	379915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	368148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	175104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	181115	53.294	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.580%		
35) Dibromofluoromethane	8.147	113	143050	52.151	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.300%		
50) Toluene-d8	10.547	98	498776	48.583	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 97.160%		
62) 4-Bromofluorobenzene	12.829	95	167282	45.817	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 91.640%		
Target Compounds						Qvalue
8) Diethyl Ether	3.965	74	127017	70.917	ug/l	99
10) Methyl Iodide	4.583	142	165	6.892	ug/l #	38
11) Tert butyl alcohol	5.506	59	1854	3.143	ug/l #	81
13) Acrolein	4.165	56	420	0.579	ug/l #	29
16) Acetone	4.430	43	21721	11.741	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	1803	0.201	ug/l #	78
20) Methylene Chloride	5.277	84	116	Below Cal	#	1
22) Diisopropyl ether	6.659	45	15469	1.654	ug/l	92
23) Vinyl Acetate	6.653	43	8896	1.046	ug/l #	72
26) 2,2-Dichloropropane	7.424	77	2015	0.458	ug/l #	54
29) Tetrahydrofuran	7.836	42	6398	4.085	ug/l #	90
31) Cyclohexane	8.212	56	5459	1.277	ug/l #	27
36) 1,1-Dichloropropene	8.206	75	16065	3.818	ug/l #	43
37) Ethyl Acetate	7.541	43	1508	0.262	ug/l #	78
38) Carbon Tetrachloride	8.206	117	19560	4.708	ug/l #	14
41) Methacrylonitrile	7.830	41	4664	1.566	ug/l #	48
49) 1,4-Dioxane	9.694	88	1208	21.948	ug/l #	91
51) 4-Methyl-2-Pentanone	10.535	43	2972	0.549	ug/l #	1
76) 1,2,3-Trichloropropane	12.823	75	93087	22.669	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	93087	60.015	ug/l #	1
90) Hexachloroethane	14.429	117	1044	0.447	ug/l #	22

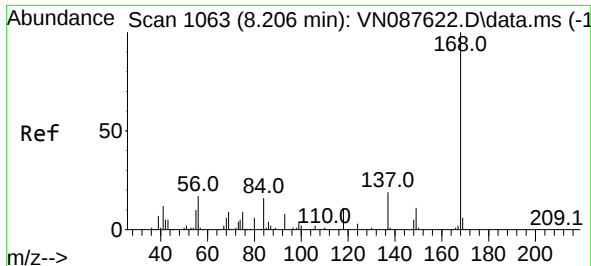
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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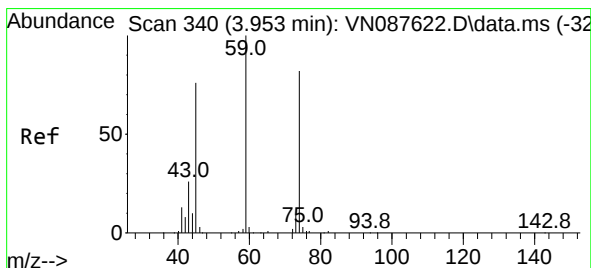
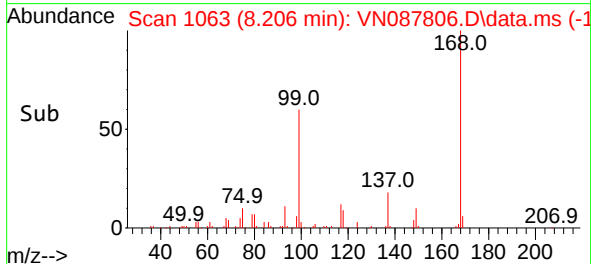
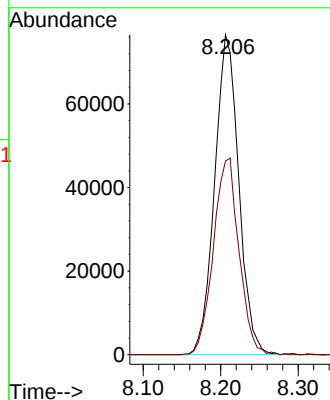
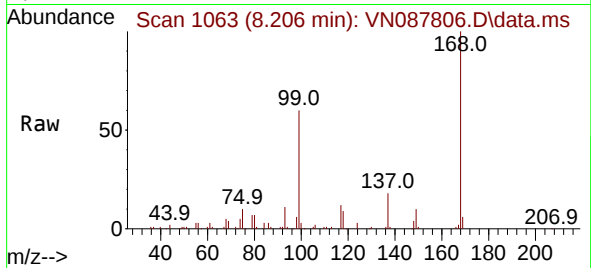




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

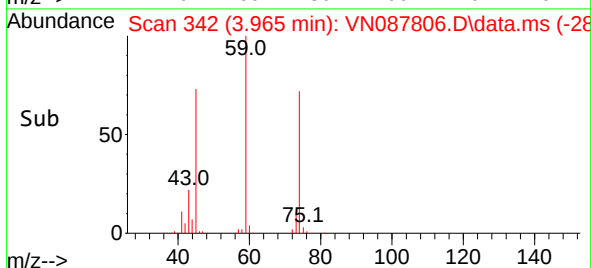
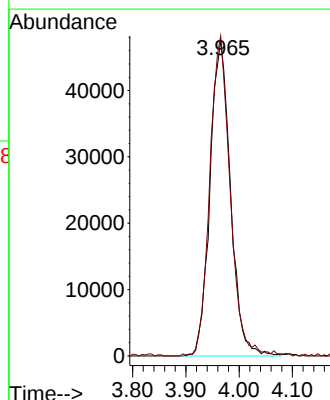
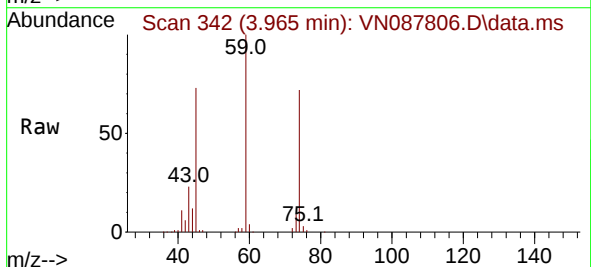
Instrument :
MSVOA_N
ClientSampleId :
MW3S

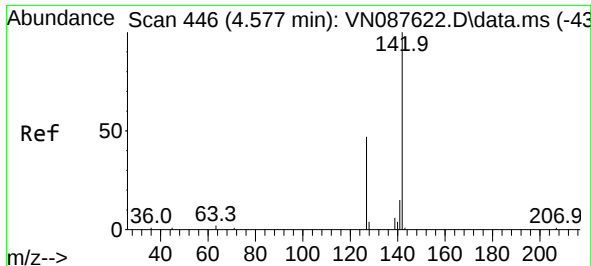
Tgt Ion:168 Resp: 165866
Ion Ratio Lower Upper
168 100
99 60.5 57.2 85.8



#8
Diethyl Ether
Concen: 70.917 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 74 Resp: 127017
Ion Ratio Lower Upper
74 100
45 100.7 50.6 151.9

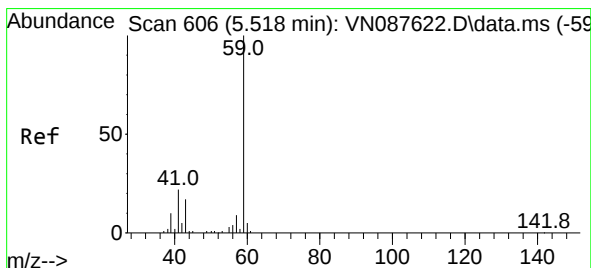
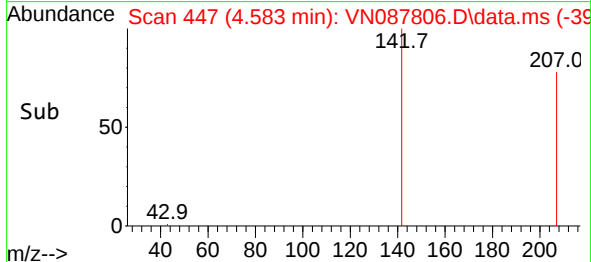
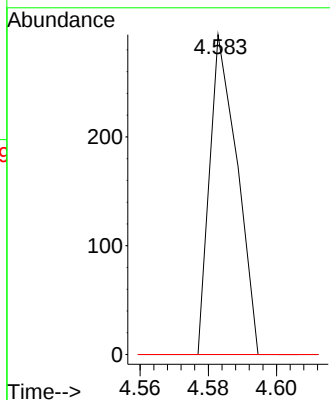
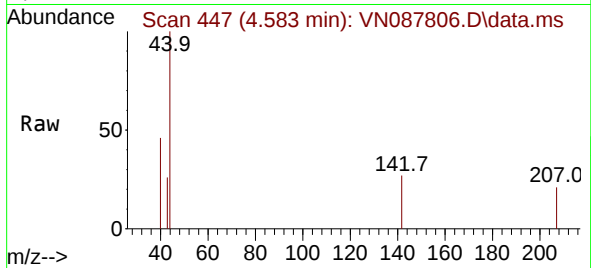




#10
Methyl Iodide
Concen: 6.892 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

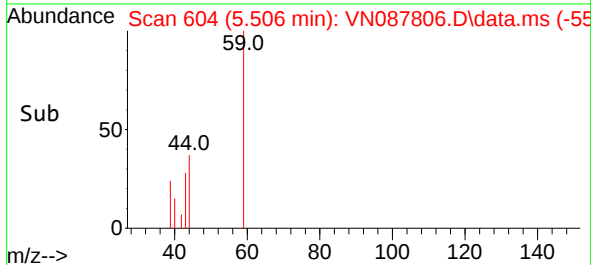
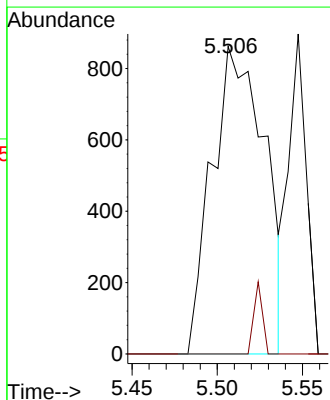
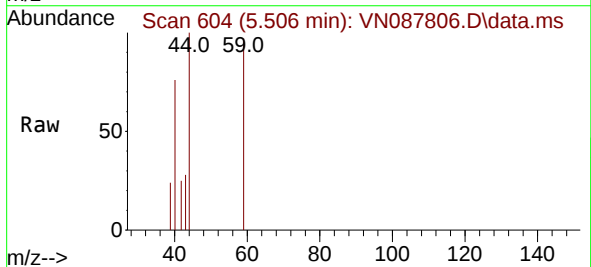
Instrument :
MSVOA_N
ClientSampleId :
MW3S

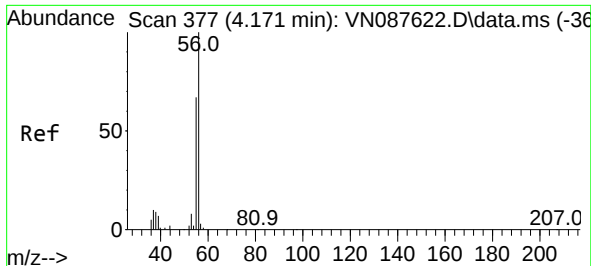
Tgt Ion:142 Resp: 165
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 3.143 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 59 Resp: 1854
Ion Ratio Lower Upper
59 100
57 3.8 9.0 13.4#

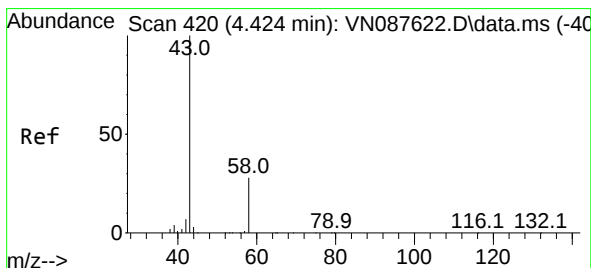
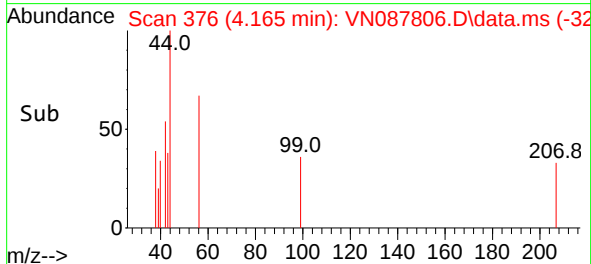
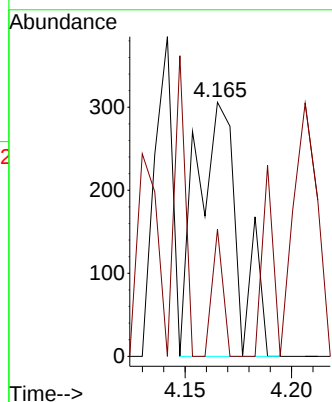
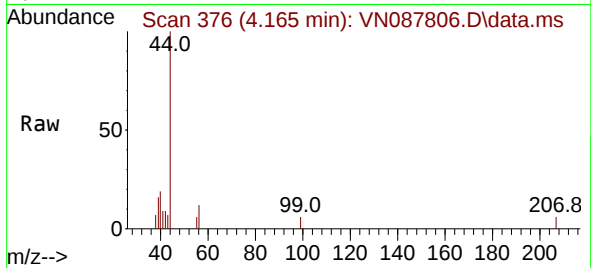




#13
Acrolein
Concen: 0.579 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

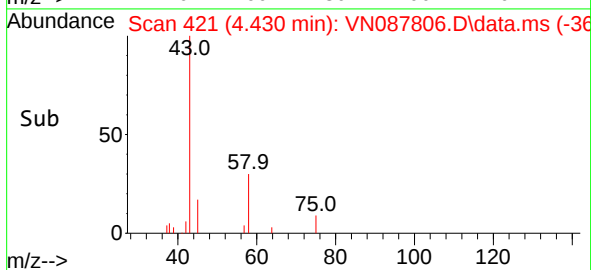
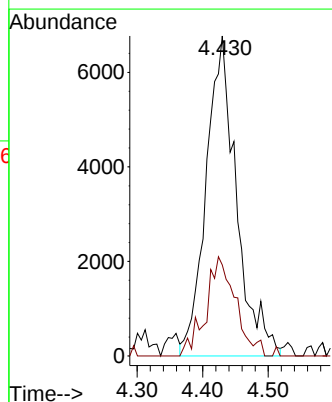
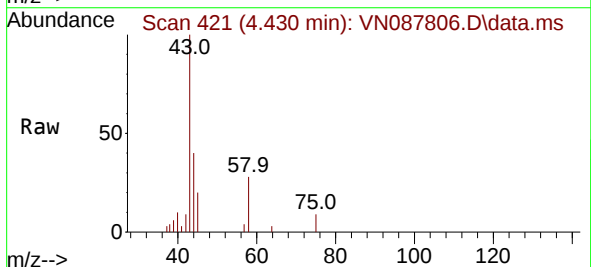
Instrument :
MSVOA_N
ClientSampleId :
MW3S

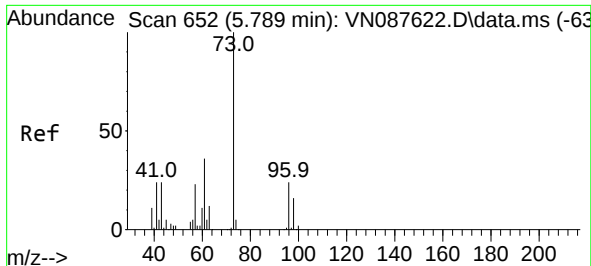
Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
55 12.9 57.3 85.9#



#16
Acetone
Concen: 11.741 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 43 Resp: 21721
Ion Ratio Lower Upper
43 100
58 29.1 22.6 33.8





#19

Methyl tert-butyl Ether

Concen: 0.201 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

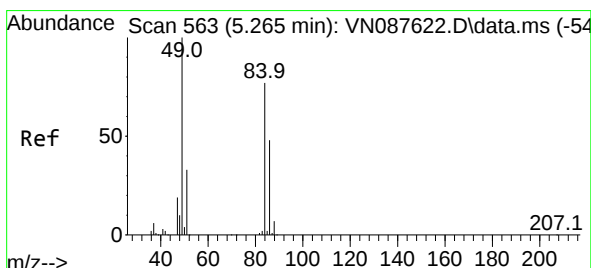
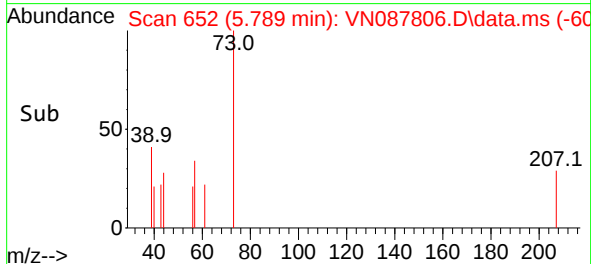
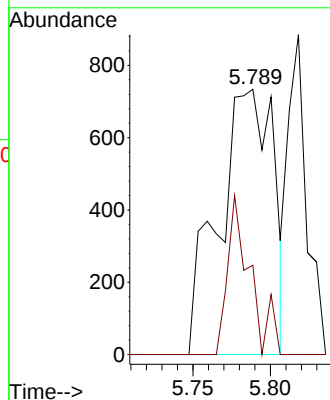
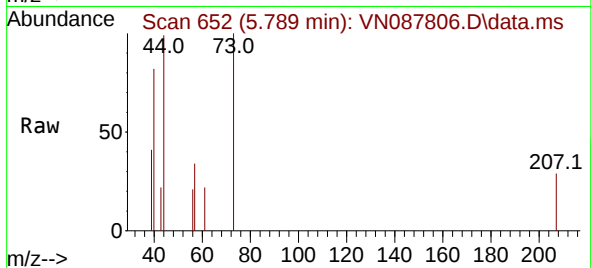
MW3S

Tgt Ion: 73 Resp: 1803

Ion Ratio Lower Upper

73 100

57 33.7 18.4 27.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.277 min Scan# 565

Delta R.T. 0.012 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Tgt Ion: 84 Resp: 116

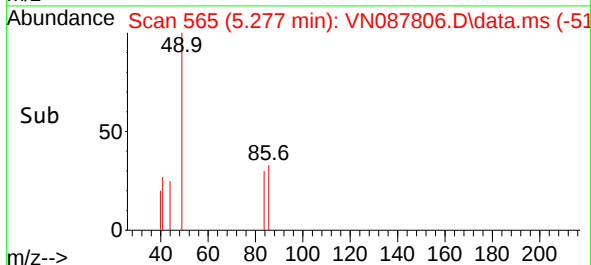
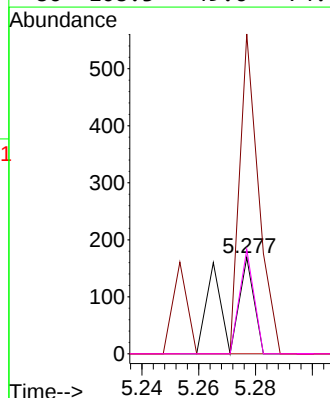
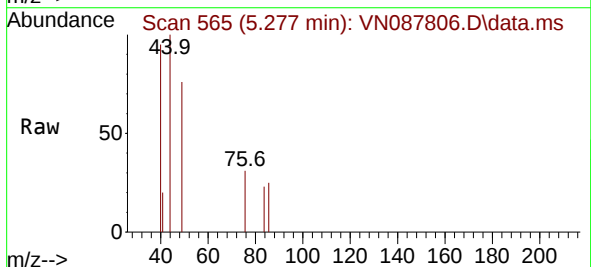
Ion Ratio Lower Upper

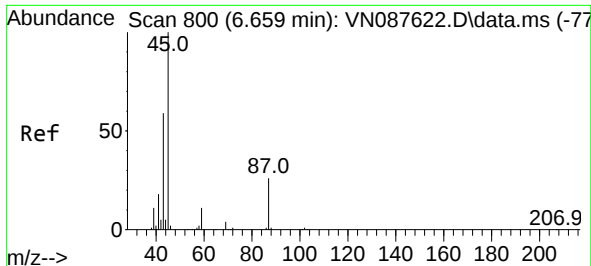
84 100

49 332.0 103.4 155.2#

51 0.0 33.8 50.8#

86 108.3 49.6 74.4#

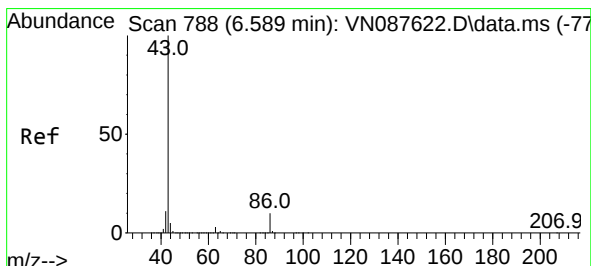
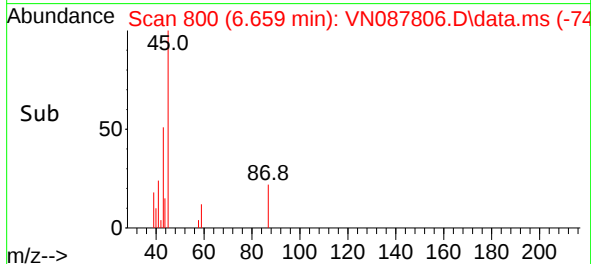
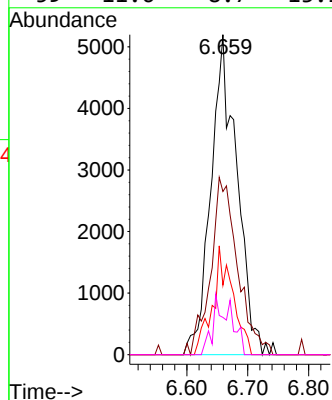
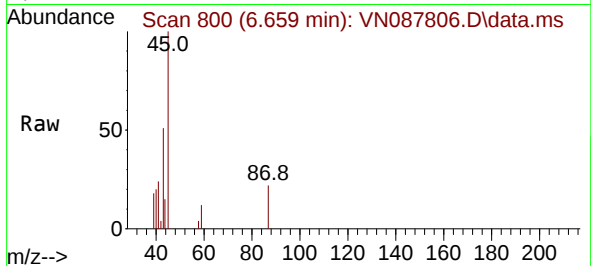




#22
Diisopropyl ether
Concen: 1.654 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

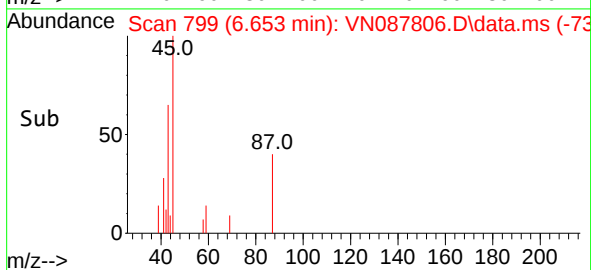
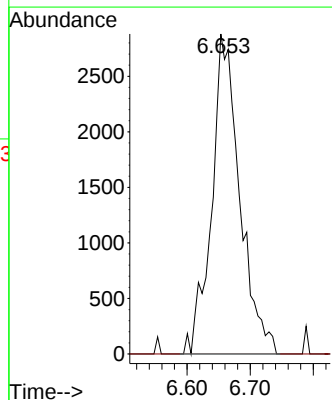
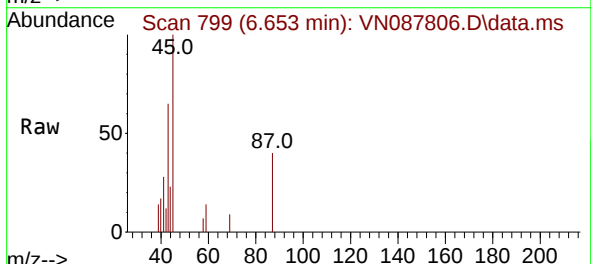
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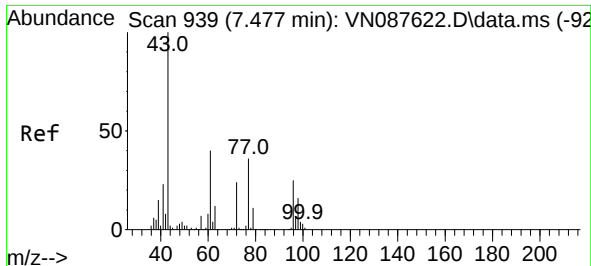
Tgt Ion: 45	Resp: 15469
Ion Ratio	Lower Upper
45 100	
43 66.3	47.7 71.5
87 21.7	21.4 32.0
59 11.6	8.7 13.1



#23
Vinyl Acetate
Concen: 1.046 ug/l
RT: 6.653 min Scan# 799
Delta R.T. 0.065 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 43	Resp: 8896
Ion Ratio	Lower Upper
43 100	
86 0.0	8.2 12.4#

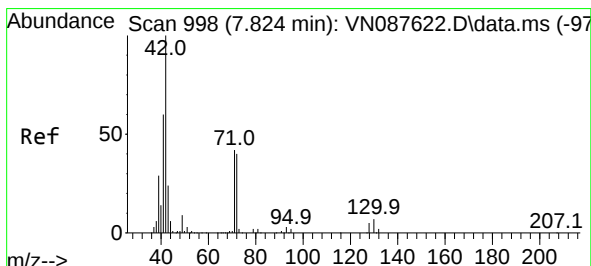
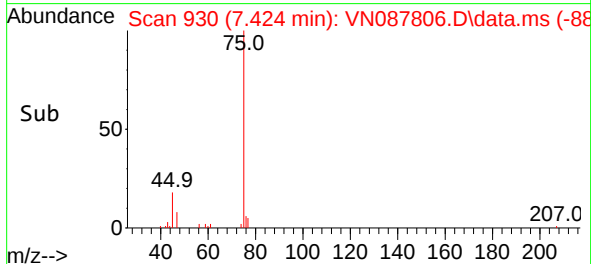
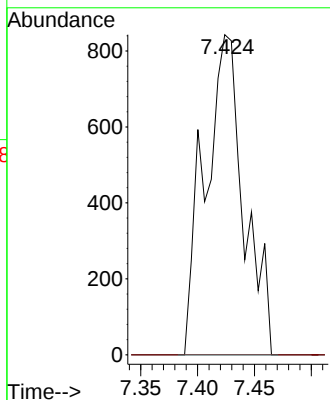
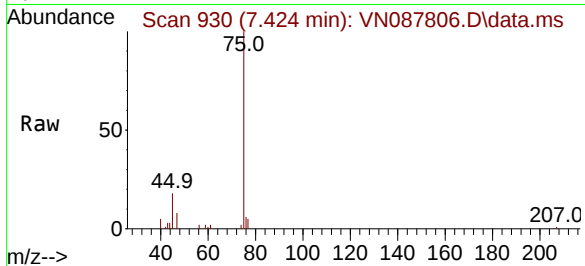




#26
2,2-Dichloropropane
Concen: 0.458 ug/l
RT: 7.424 min Scan# 91
Delta R.T. -0.053 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

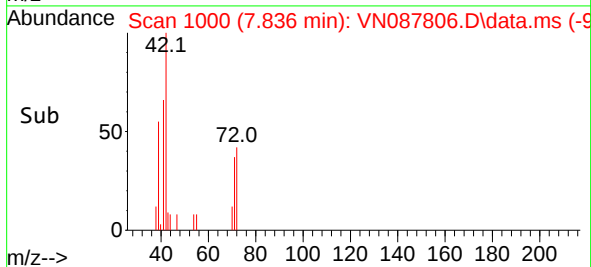
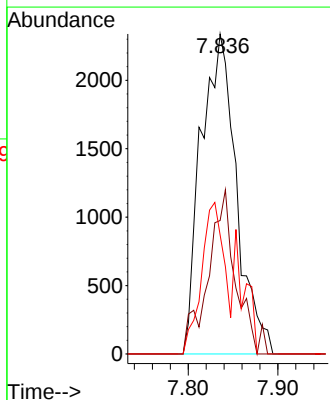
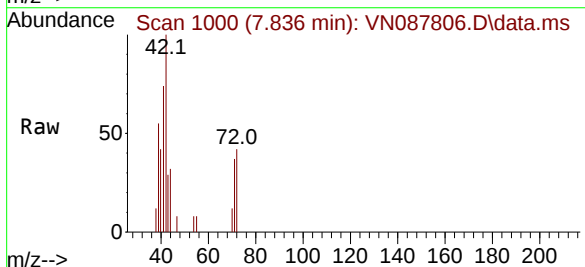
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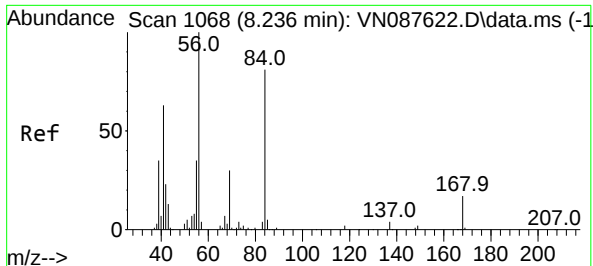
Tgt Ion: 77 Resp: 2015
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.7#



#29
Tetrahydrofuran
Concen: 4.085 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 42 Resp: 6398
Ion Ratio Lower Upper
42 100
72 39.0 33.7 50.5
71 30.4 31.9 47.9#





#31

Cyclohexane

Concen: 1.277 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.024 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

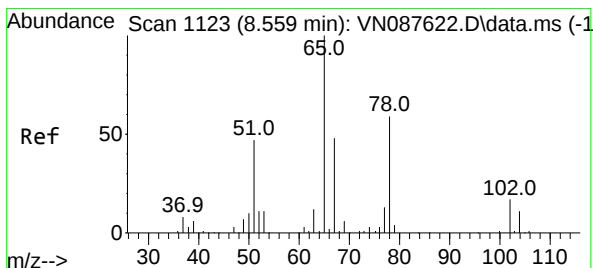
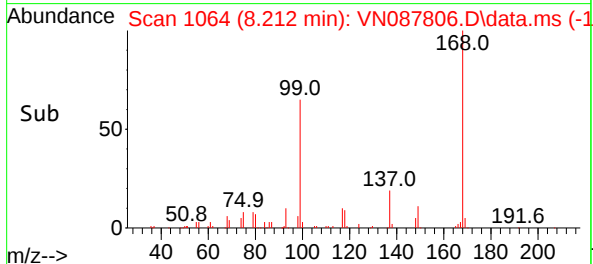
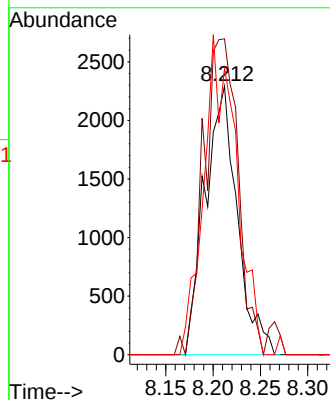
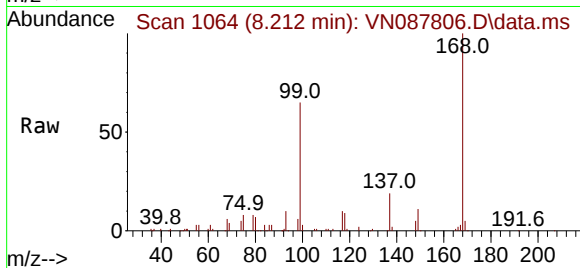
Tgt Ion: 56 Resp: 5459

Ion Ratio Lower Upper

56 100

69 110.7 23.7 35.5#

84 120.2 64.7 97.1#



#33

1,2-Dichloroethane-d4

Concen: 53.294 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087806.D

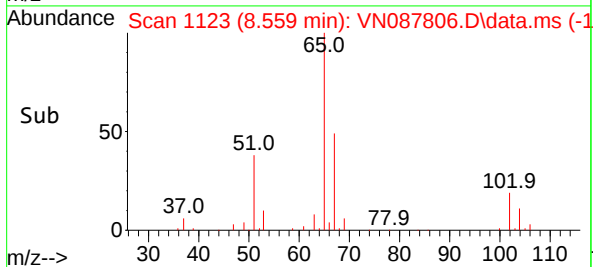
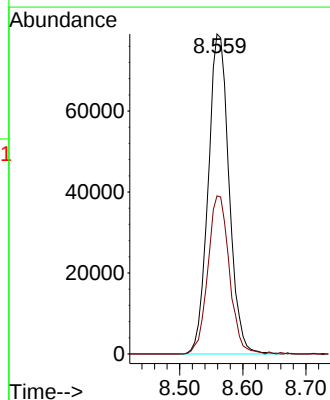
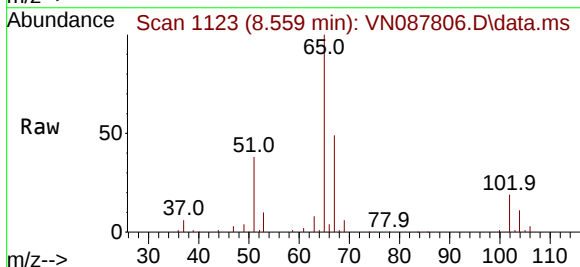
Acq: 11 Sep 2025 18:11

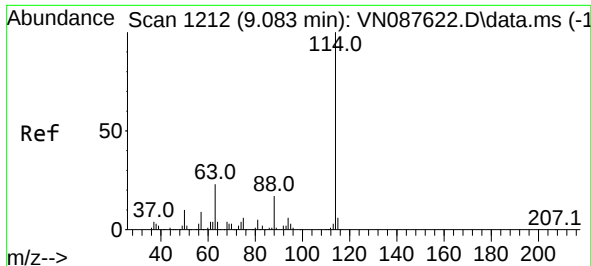
Tgt Ion: 65 Resp: 181115

Ion Ratio Lower Upper

65 100

67 50.8 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: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

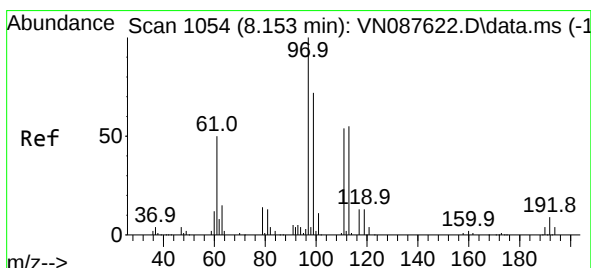
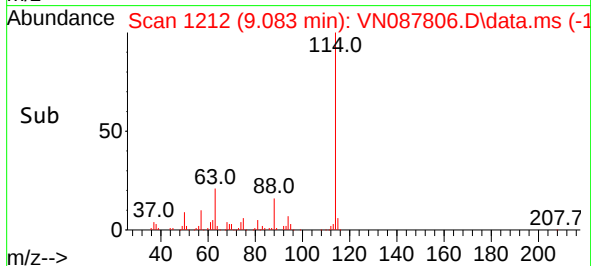
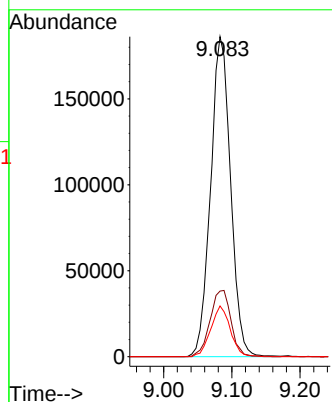
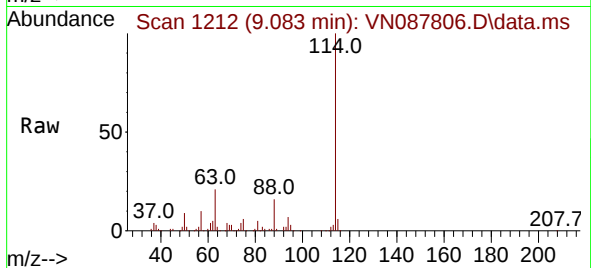
Tgt Ion:114 Resp: 379915

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.2

88 15.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.151 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

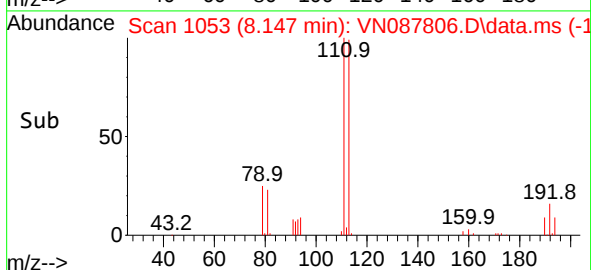
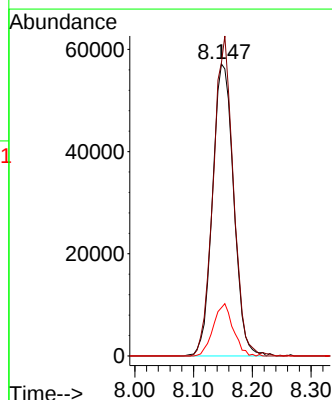
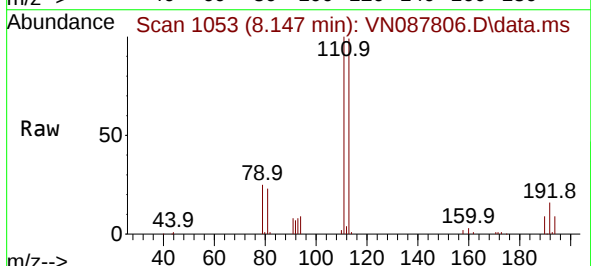
Tgt Ion:113 Resp: 143050

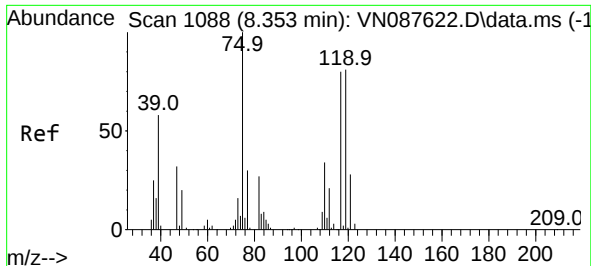
Ion Ratio Lower Upper

113 100

111 104.0 82.8 124.2

192 16.8 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.818 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

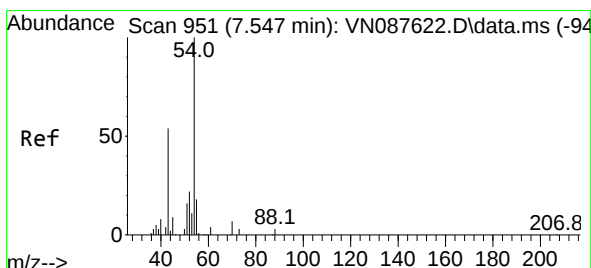
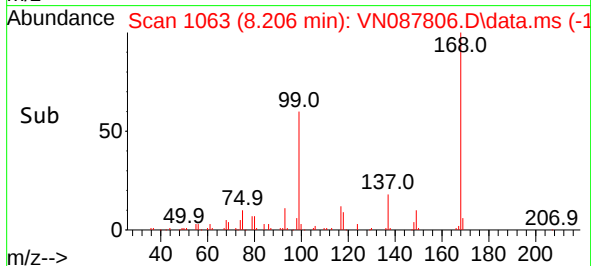
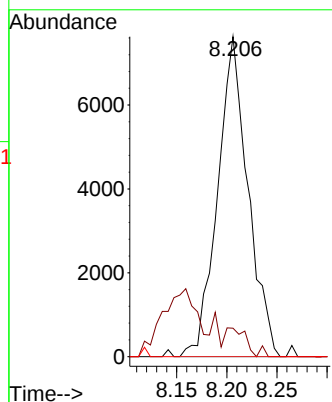
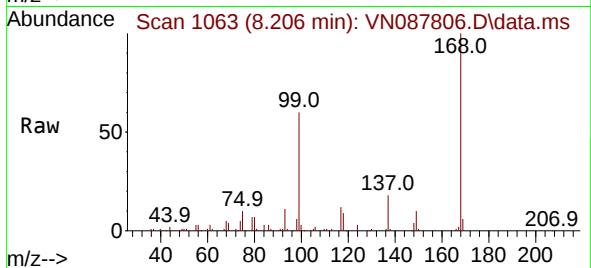
Tgt Ion: 75 Resp: 16065

Ion Ratio Lower Upper

75 100

110 0.0 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.262 ug/l

RT: 7.541 min Scan# 950

Delta R.T. -0.006 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

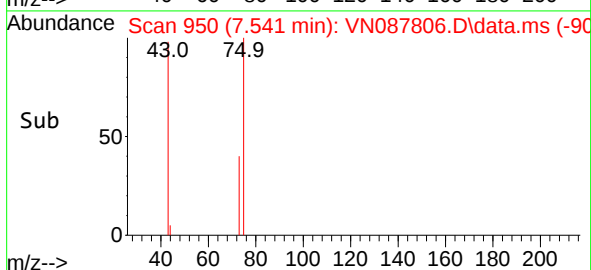
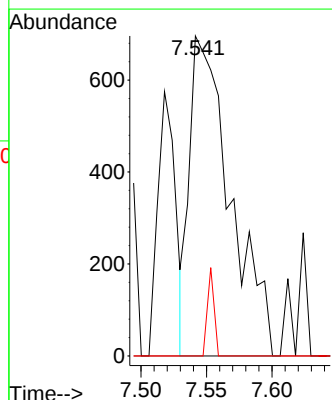
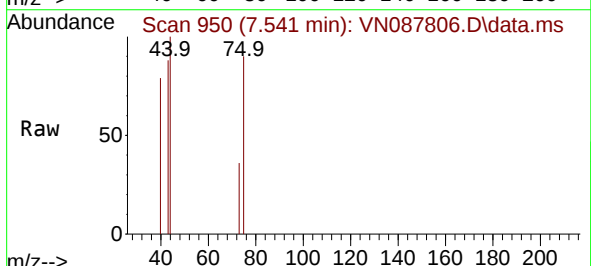
Tgt Ion: 43 Resp: 1508

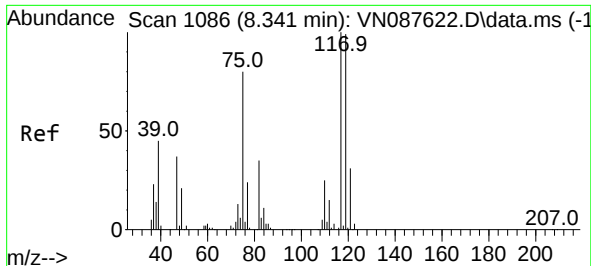
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 4.5 7.0 10.6#

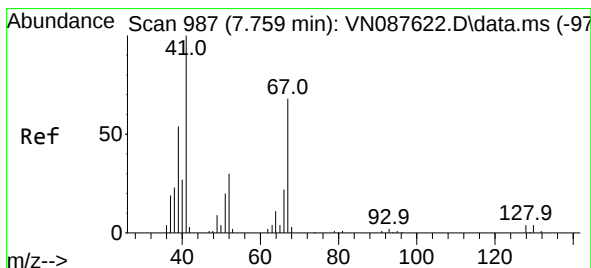
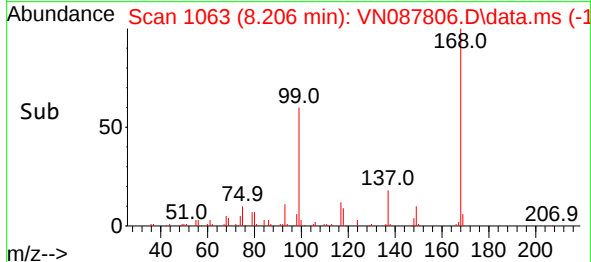
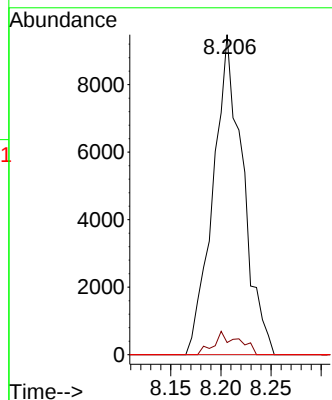
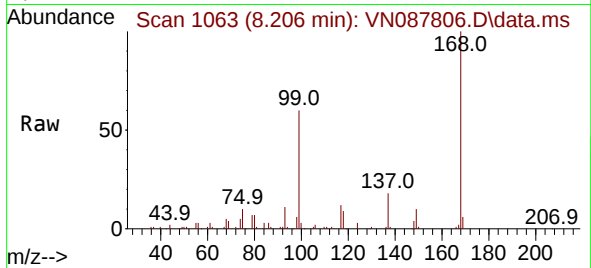




#38
Carbon Tetrachloride
Concen: 4.708 ug/l
RT: 8.206 min Scan# 117
Delta R.T. -0.135 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

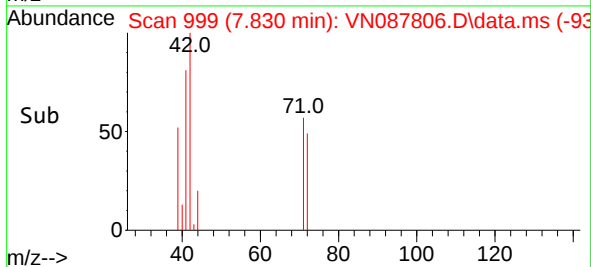
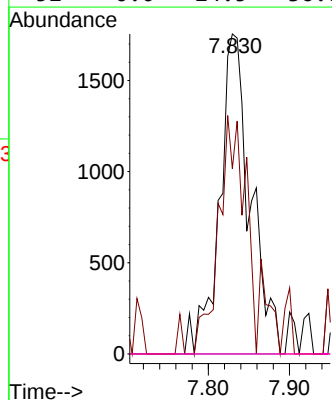
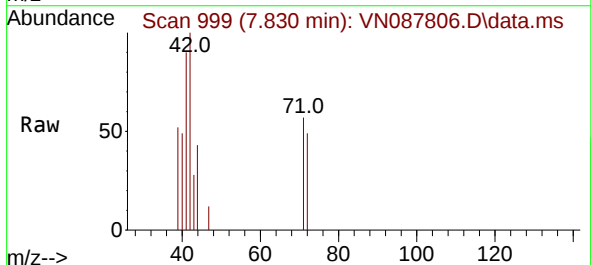
Instrument :
MSVOA_N
ClientSampleId :
MW3S

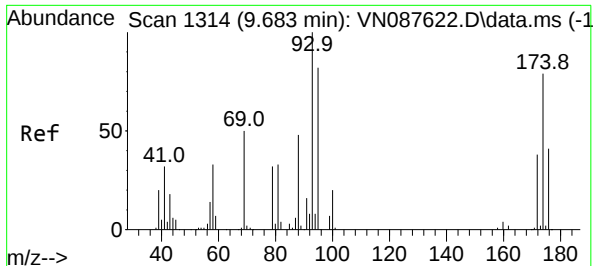
Tgt Ion:117 Resp: 19560
Ion Ratio Lower Upper
117 100
119 3.8 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 1.566 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.071 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 41 Resp: 4664
Ion Ratio Lower Upper
41 100
39 63.9 45.4 68.0
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#

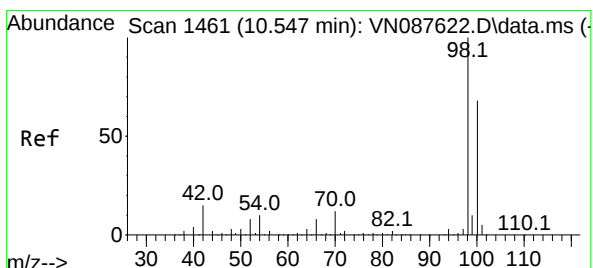
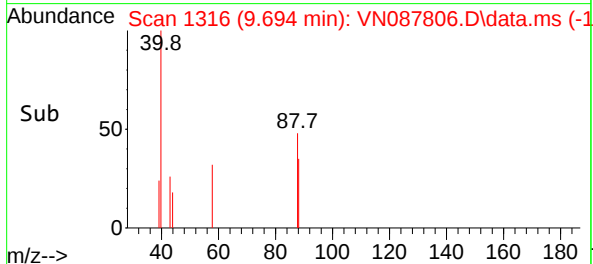
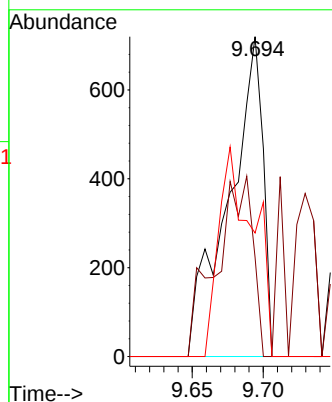
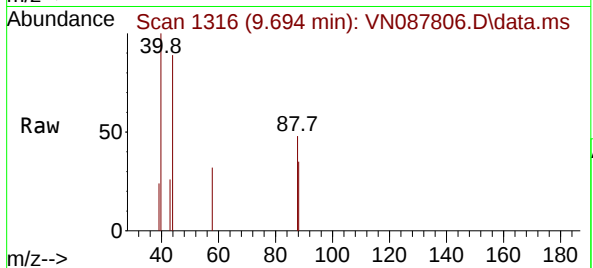




#49
1,4-Dioxane
Concen: 21.948 ug/l
RT: 9.694 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

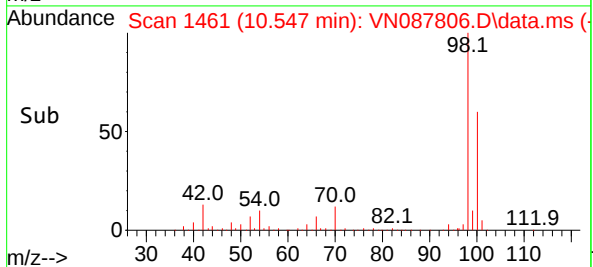
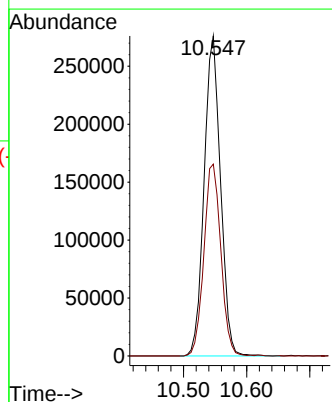
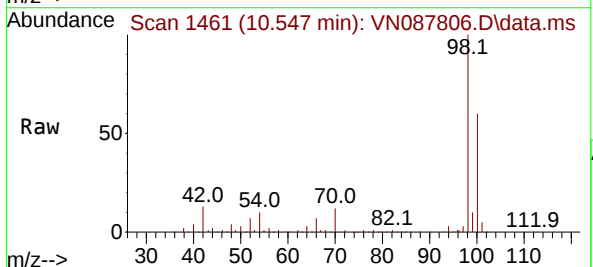
Instrument :
MSVOA_N
ClientSampleId :
MW3S

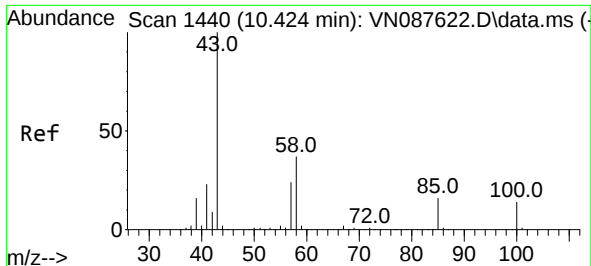
Tgt Ion: 88 Resp: 1208
Ion Ratio Lower Upper
88 100
43 60.9 0.0 0.0#
58 65.1 57.9 86.9



#50
Toluene-d8
Concen: 48.583 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 98 Resp: 498776
Ion Ratio Lower Upper
98 100
100 61.8 52.8 79.2

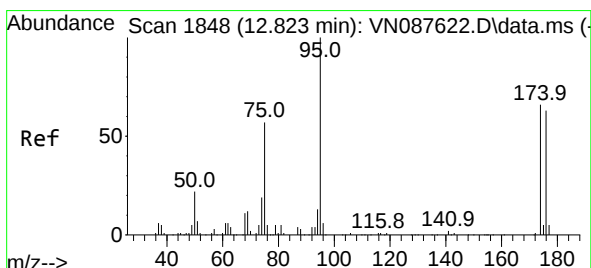
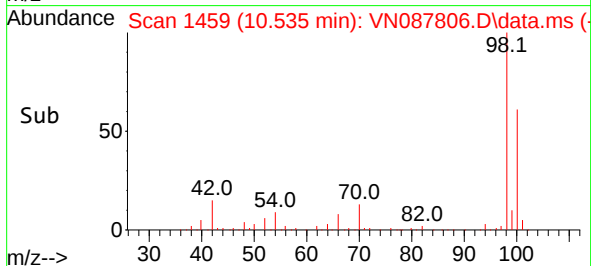
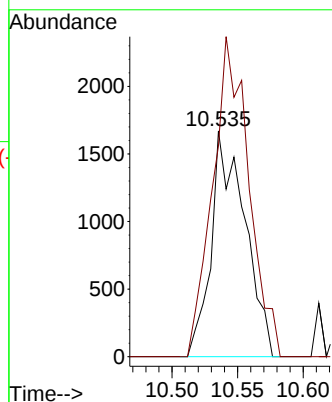
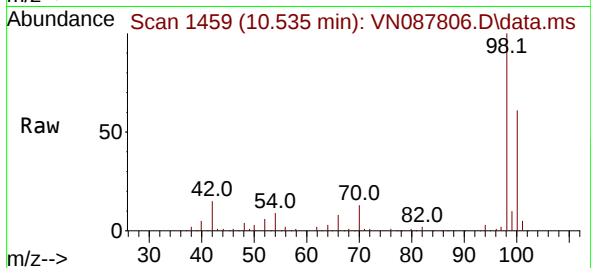




#51
4-Methyl-2-Pentanone
Concen: 0.549 ug/l
RT: 10.535 min Scan# 1440
Delta R.T. 0.112 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

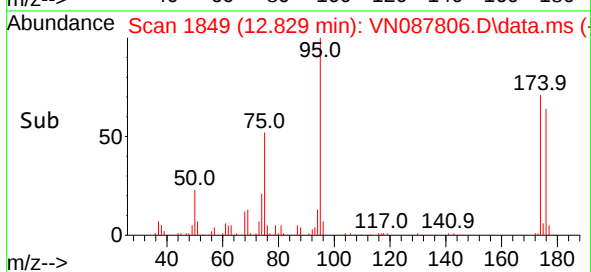
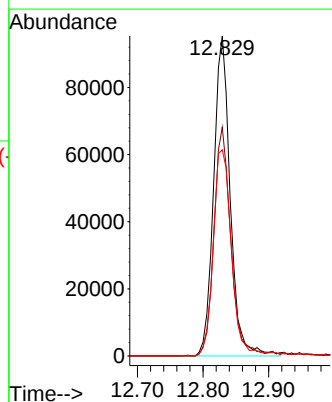
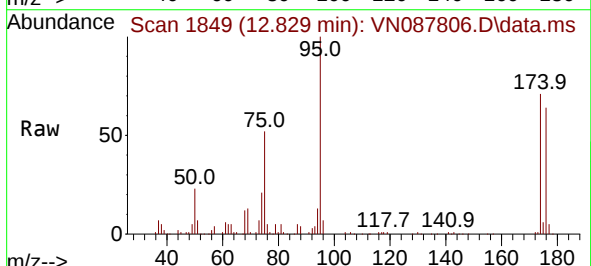
Instrument :
MSVOA_N
ClientSampleId :
MW3S

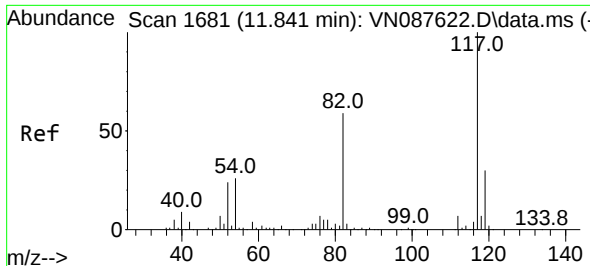
Tgt Ion: 43 Resp: 2972
Ion Ratio Lower Upper
43 100
58 152.4 29.6 44.4#



#62
4-Bromofluorobenzene
Concen: 45.817 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 95 Resp: 167282
Ion Ratio Lower Upper
95 100
174 72.4 0.0 138.4
176 70.4 0.0 132.6

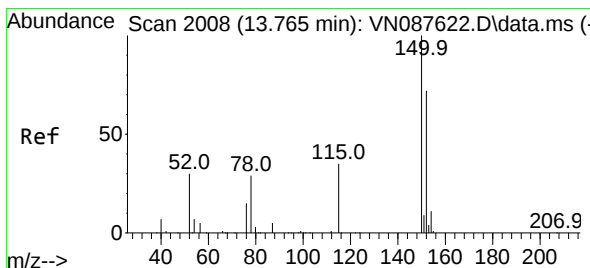
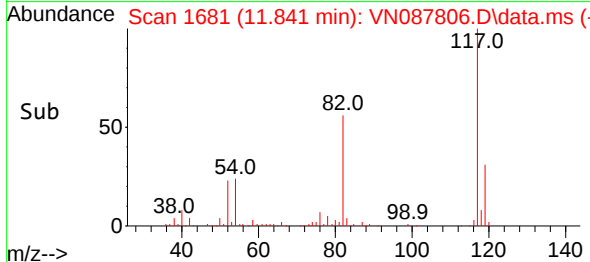
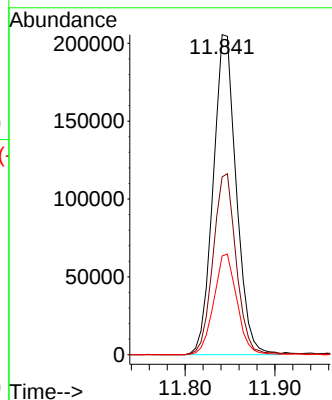
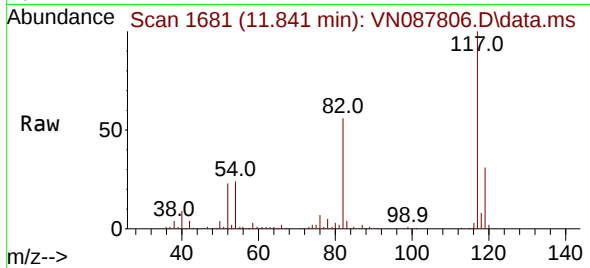




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

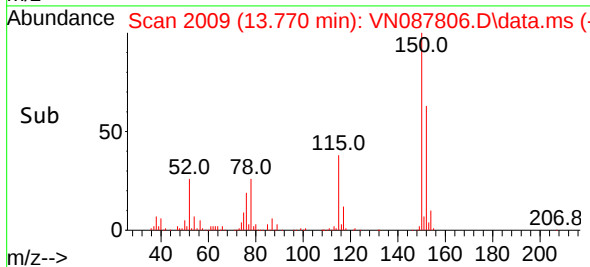
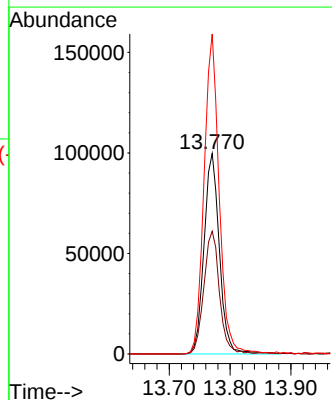
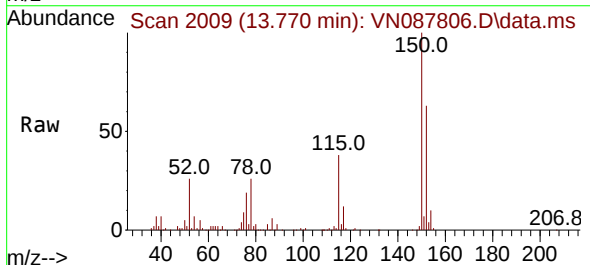
Instrument :
MSVOA_N
ClientSampleId :
MW3S

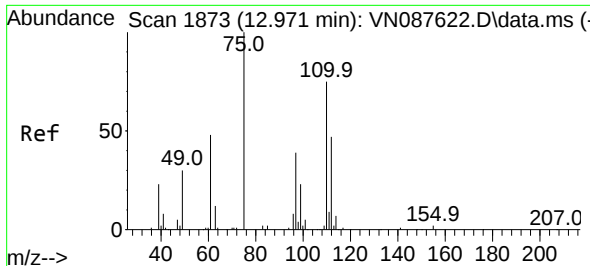
Tgt Ion:117 Resp: 368148
Ion Ratio Lower Upper
117 100
82 55.6 47.4 71.2
119 30.9 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion:152 Resp: 175104
Ion Ratio Lower Upper
152 100
115 62.0 32.3 96.8
150 156.3 0.0 351.0

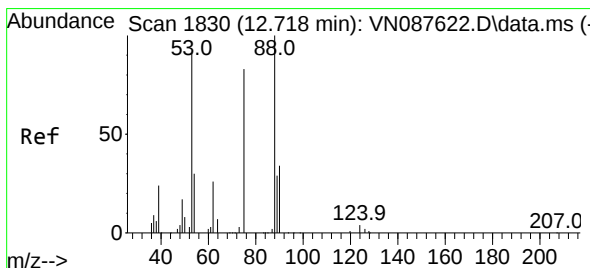
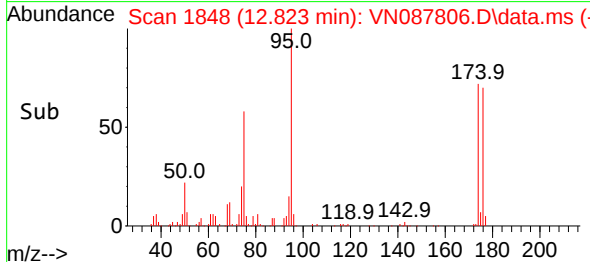
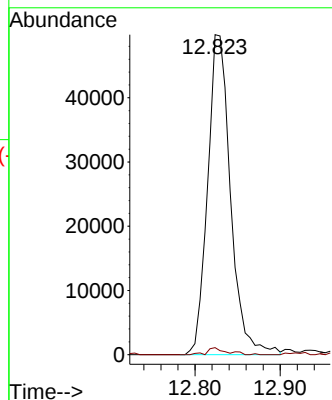
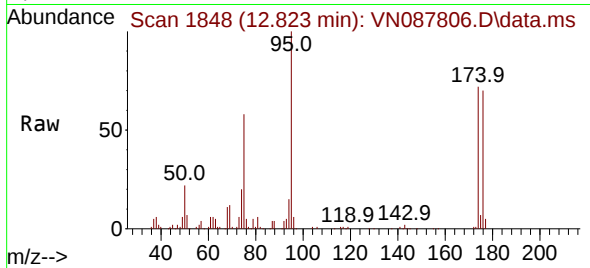




#76
1,2,3-Trichloropropane
Concen: 22.669 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

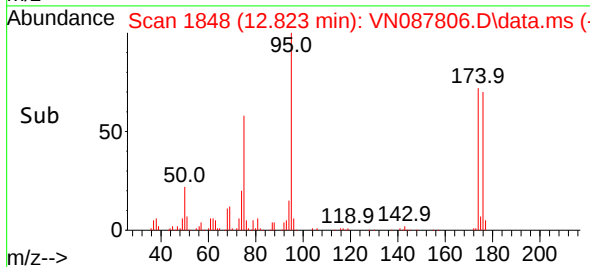
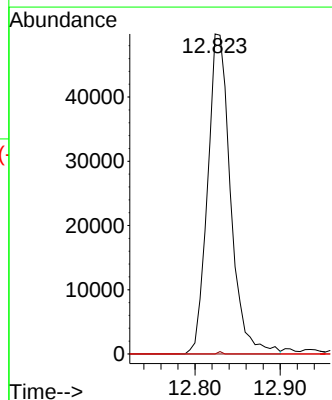
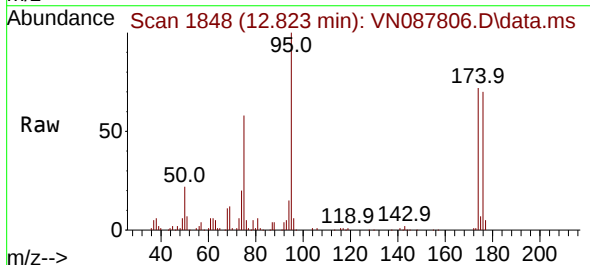
Instrument :
MSVOA_N
ClientSampleId :
MW3S

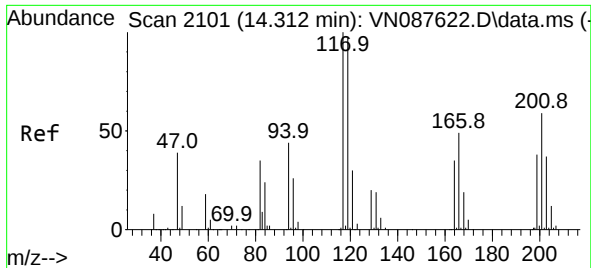
Tgt Ion: 75 Resp: 93087
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.015 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 75 Resp: 93087
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#





#90

Hexachloroethane

Concen: 0.447 ug/l

RT: 14.429 min Scan# 21

Delta R.T. 0.118 min

Lab File: VN087806.D

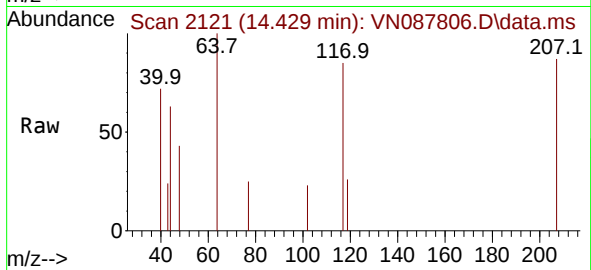
Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S



Tgt Ion:117 Resp: 1044

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#

