

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087801.D
 Acq On : 11 Sep 2025 16:27
 Operator : JC\MD
 Sample : Q3054-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-385

Quant Time: Sep 12 02:55:17 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

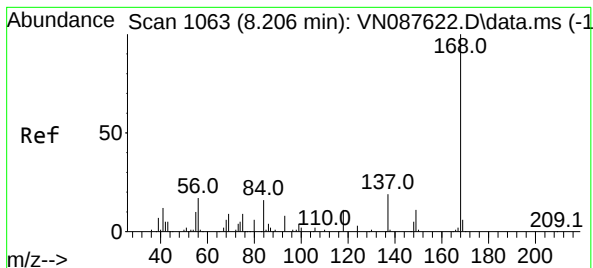
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	185022	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	421806	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	436039	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	195676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	198787	52.438	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.880%			
35) Dibromofluoromethane	8.153	113	160827	52.809	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.620%			
50) Toluene-d8	10.547	98	570818	50.078	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.160%			
62) 4-Bromofluorobenzene	12.829	95	193983	47.854	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.700%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.530	59	1978	3.006	ug/l #	88
13) Acrolein	4.195	56	546	0.675	ug/l #	72
16) Acetone	4.424	43	123746	59.965	ug/l	93
17) Carbon Disulfide	4.700	76	3381	0.460	ug/l #	91
18) Methyl Acetate	5.018	43	20157	4.665	ug/l	97
20) Methylene Chloride	5.265	84	13013	3.198	ug/l #	71
25) 2-Butanone	7.483	43	12497	4.603	ug/l	91
29) Tetrahydrofuran	7.836	42	1330	0.761	ug/l #	76
31) Cyclohexane	8.206	56	6019	1.262	ug/l #	32
36) 1,1-Dichloropropene	8.206	75	17314	3.706	ug/l #	51
37) Ethyl Acetate	7.553	43	12404	1.943	ug/l #	92
38) Carbon Tetrachloride	8.206	117	20445	4.432	ug/l #	15
43) Isopropyl Acetate	8.671	43	25897	2.598	ug/l #	88
48) Methyl methacrylate	9.724	41	152413	32.327	ug/l #	48
49) 1,4-Dioxane	9.706	88	55	0.900	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	18891	3.141	ug/l #	76
54) cis-1,3-Dichloropropene	10.335	75	66021	11.151	ug/l #	65
57) 1,3-Dichloropropane	11.182	76	4734	0.778	ug/l #	42
59) 2-Hexanone	11.182	43	84595	22.258	ug/l #	51
71) Bromoform	12.823	173	985	0.357	ug/l #	1
74) N-amyl acetate	12.488	43	1497	0.250	ug/l #	64
76) 1,2,3-Trichloropropane	12.829	75	111020	24.194	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	111020	64.051	ug/l #	1

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

Quant Time: Sep 12 02:55:17 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

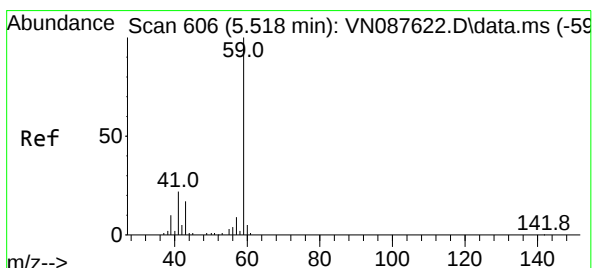
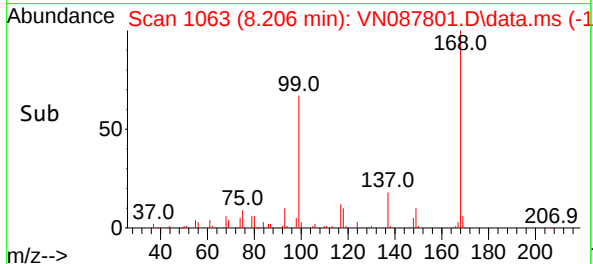
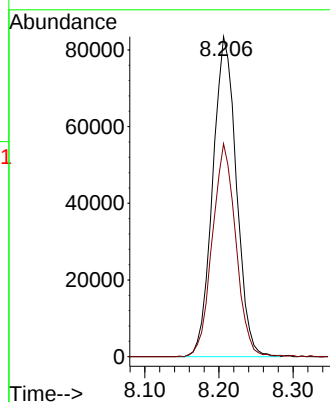
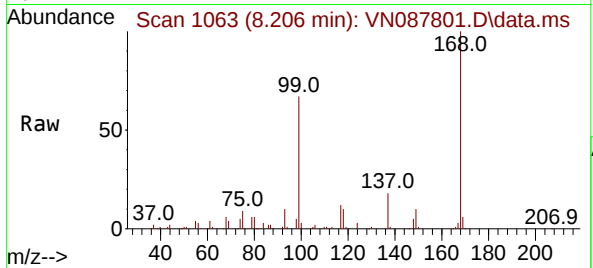




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

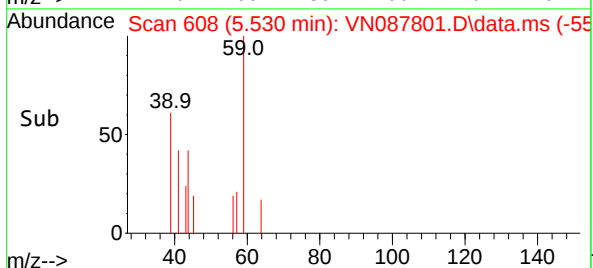
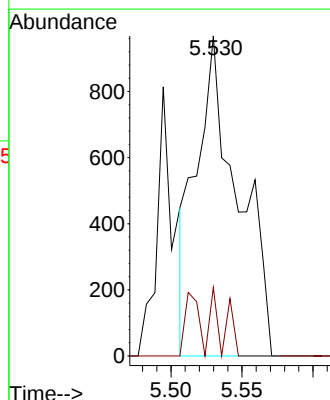
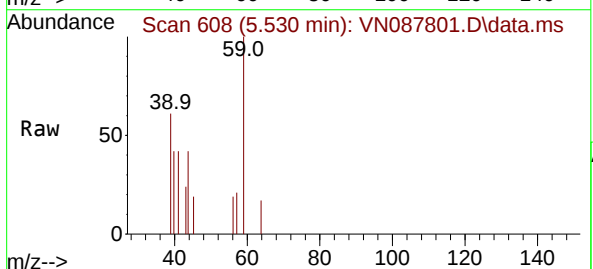
Instrument :
MSVOA_N
ClientSampleId :
MH-385

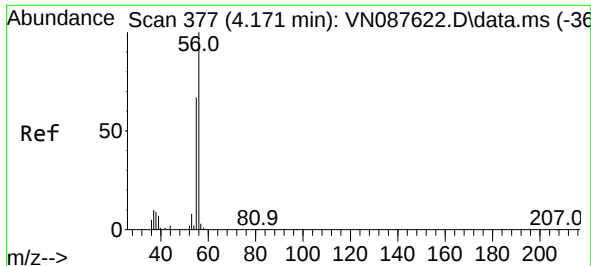
Tgt Ion:168 Resp: 185022
Ion Ratio Lower Upper
168 100
99 66.3 57.2 85.8



#11
Tert butyl alcohol
Concen: 3.006 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 59 Resp: 1978
Ion Ratio Lower Upper
59 100
57 6.8 9.0 13.4#

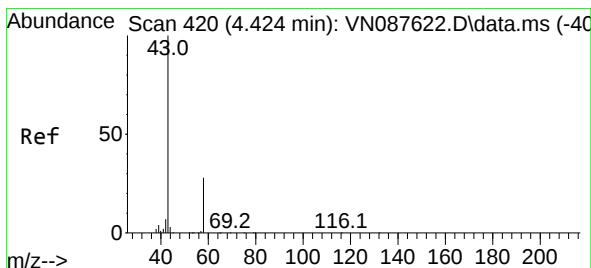
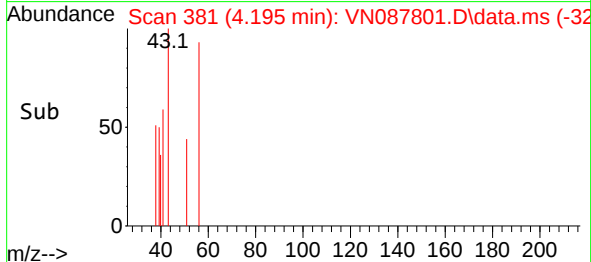
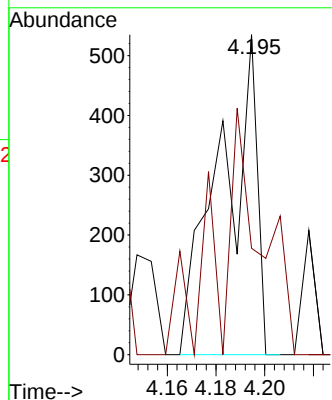
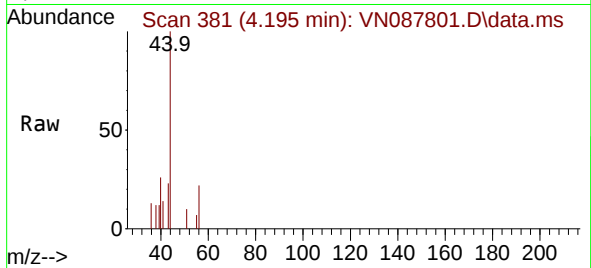




#13
Acrolein
Concen: 0.675 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.023 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

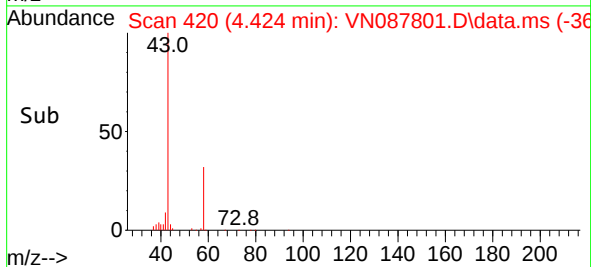
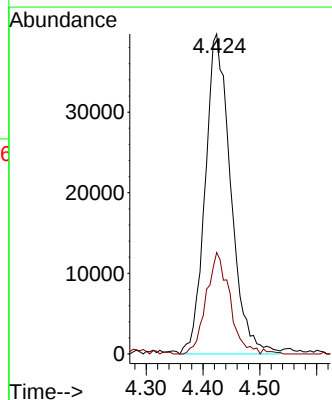
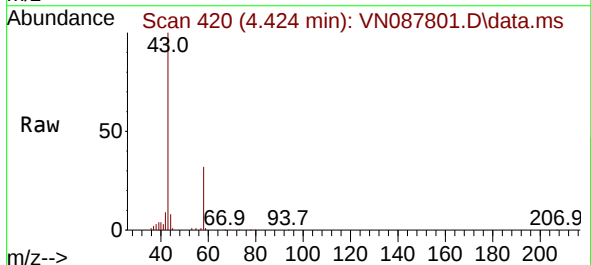
Instrument :
MSVOA_N
ClientSampleId :
MH-385

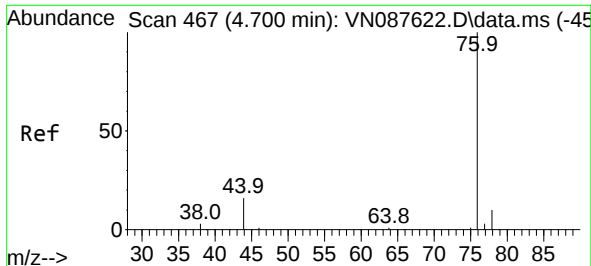
Tgt Ion: 56 Resp: 546
Ion Ratio Lower Upper
56 100
55 94.5 57.3 85.9#



#16
Acetone
Concen: 59.965 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 43 Resp: 123746
Ion Ratio Lower Upper
43 100
58 31.7 22.6 33.8

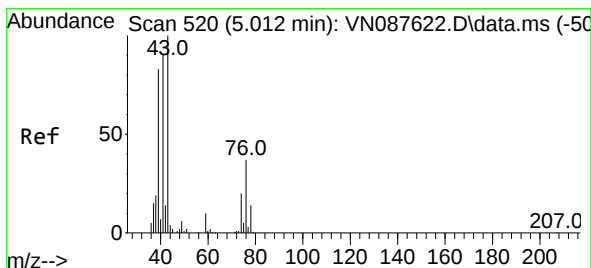
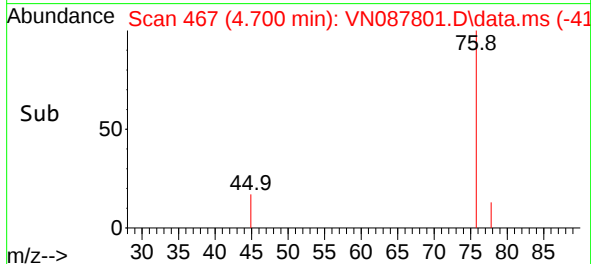
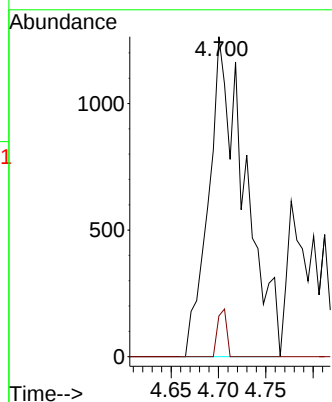
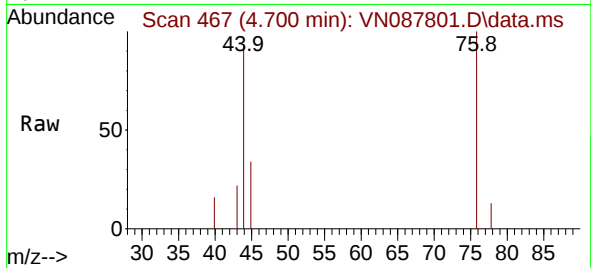




#17
Carbon Disulfide
Concen: 0.460 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

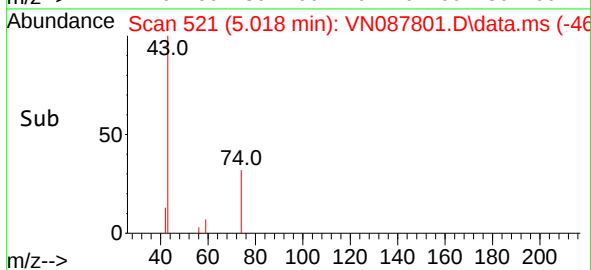
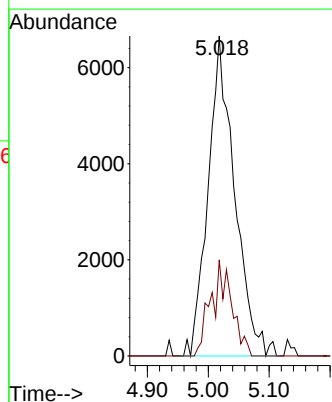
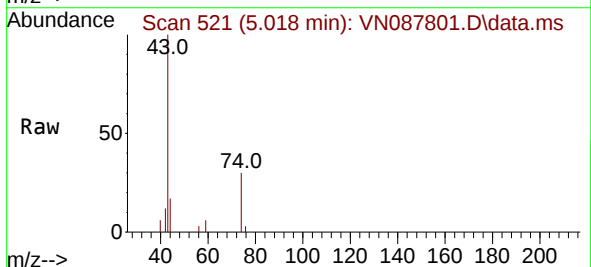
Instrument :
MSVOA_N
ClientSampleId :
MH-385

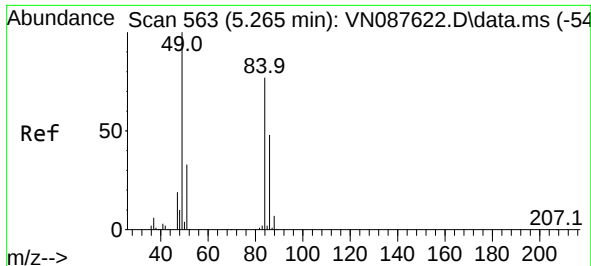
Tgt Ion: 76 Resp: 3381
Ion Ratio Lower Upper
76 100
78 12.7 7.6 11.4#



#18
Methyl Acetate
Concen: 4.665 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 43 Resp: 20157
Ion Ratio Lower Upper
43 100
74 23.5 17.6 26.4

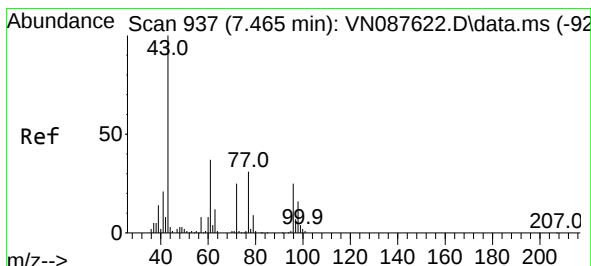
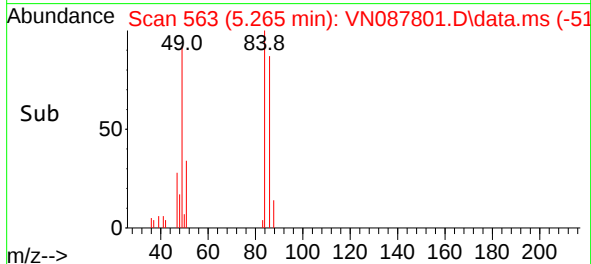
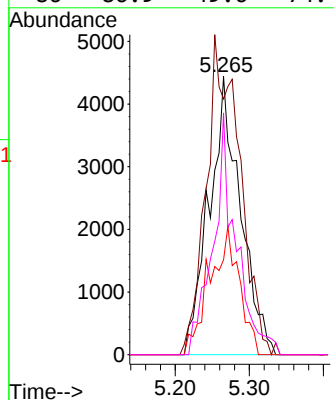
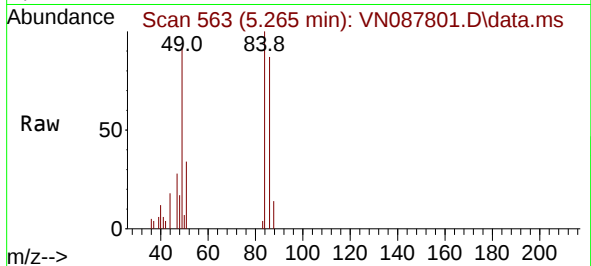




#20
Methylene Chloride
Concen: 3.198 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

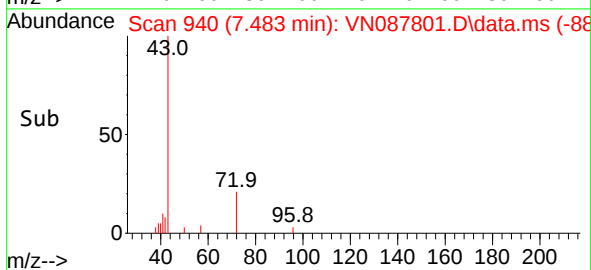
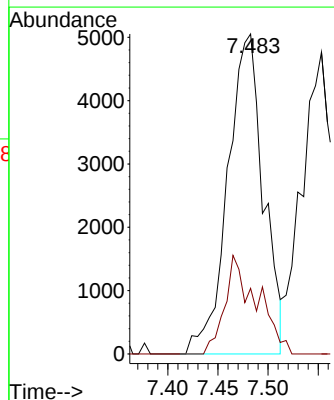
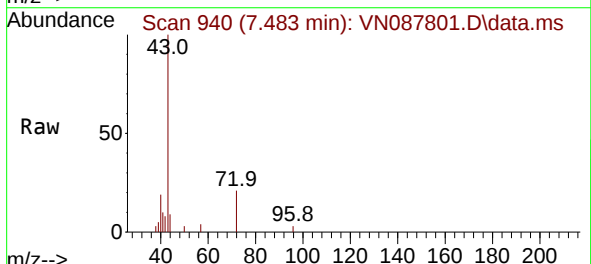
Instrument :
MSVOA_N
ClientSampleId :
MH-385

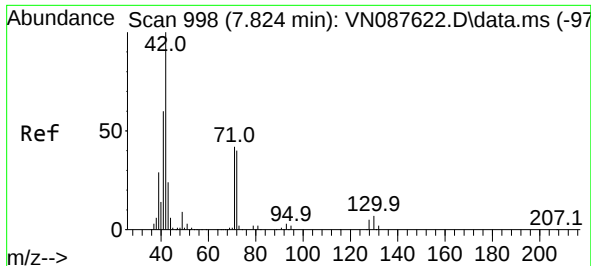
Tgt Ion:	84	Resp:	13013
Ion	Ratio	Lower	Upper
84	100		
49	91.9	103.4	155.2#
51	34.1	33.8	50.8
86	86.9	49.6	74.4#



#25
2-Butanone
Concen: 4.603 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion:	43	Resp:	12497
Ion	Ratio	Lower	Upper
43	100		
72	20.5	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.761 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN087801.D

Acq: 11 Sep 2025 16:27

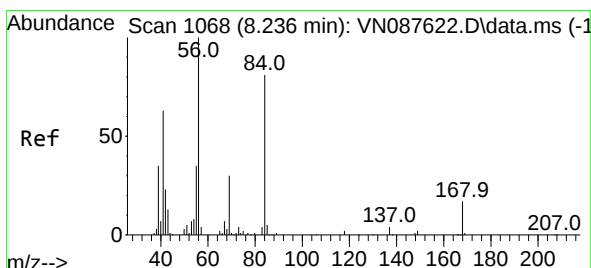
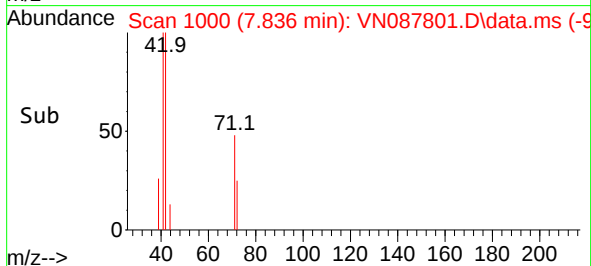
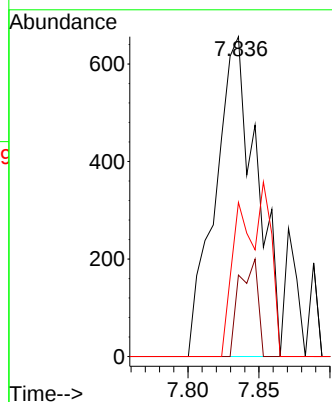
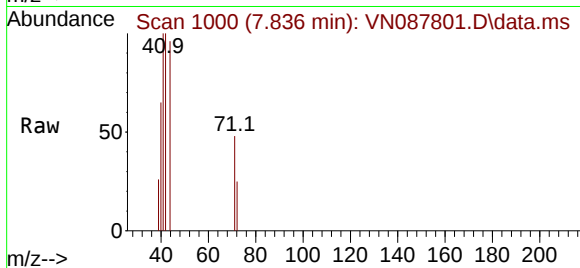
Instrument :

MSVOA_N

ClientSampleId :

MH-385

Tgt Ion:	42	Resp:	1330
Ion	Ratio	Lower	Upper
42	100		
72	13.8	33.7	50.5#
71	41.4	31.9	47.9



#31

Cyclohexane

Concen: 1.262 ug/l

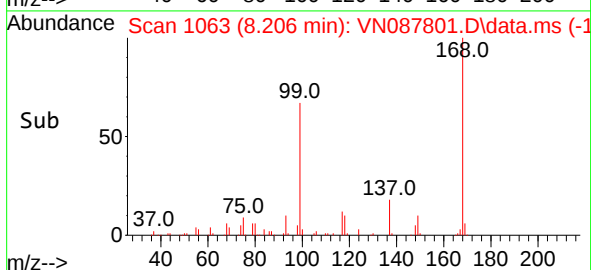
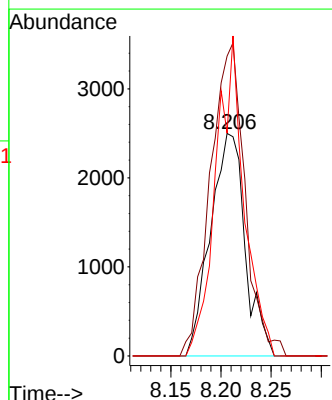
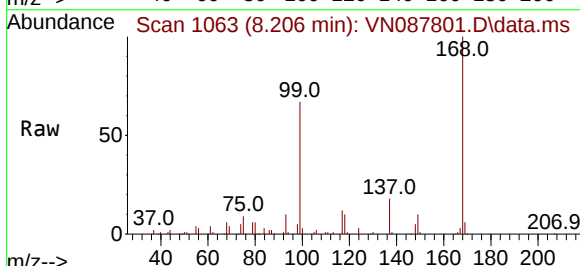
RT: 8.206 min Scan# 1063

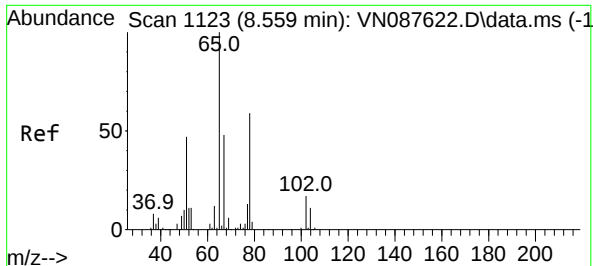
Delta R.T. -0.029 min

Lab File: VN087801.D

Acq: 11 Sep 2025 16:27

Tgt Ion:	56	Resp:	6019
Ion	Ratio	Lower	Upper
56	100		
69	134.8	23.7	35.5#
84	100.1	64.7	97.1#

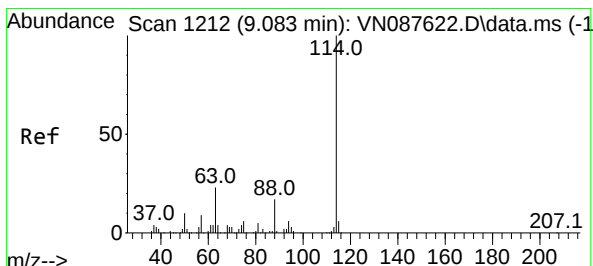
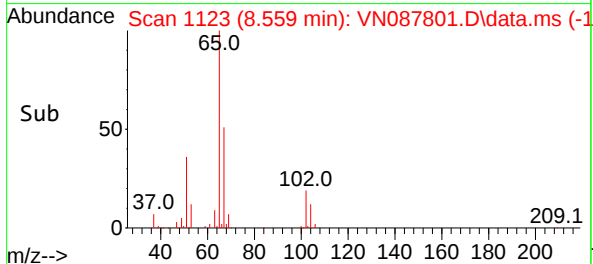
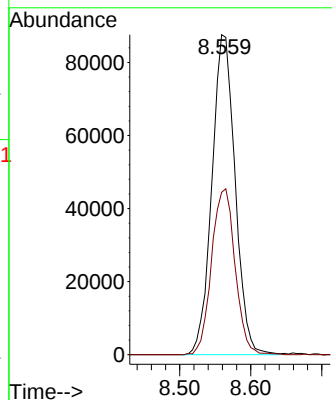
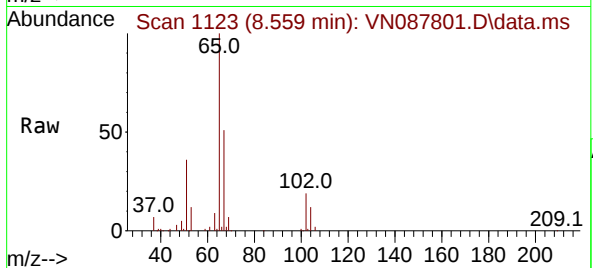




#33
1,2-Dichloroethane-d4
Concen: 52.438 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

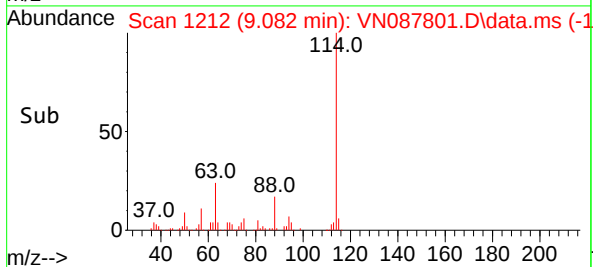
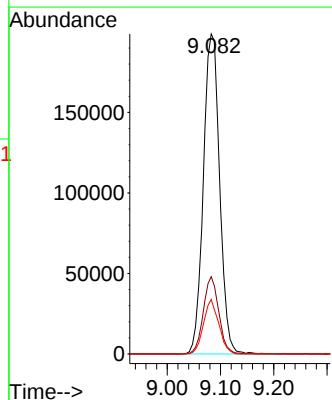
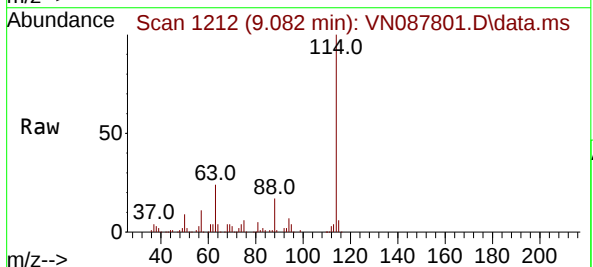
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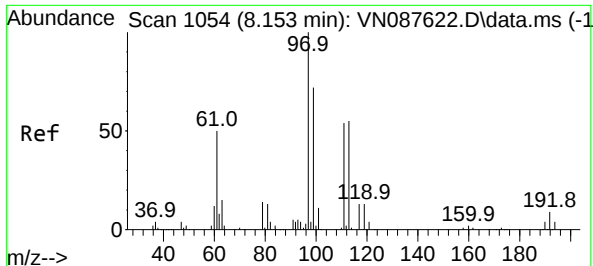
Tgt Ion: 65 Resp: 198787
Ion Ratio Lower Upper
65 100
67 52.5 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

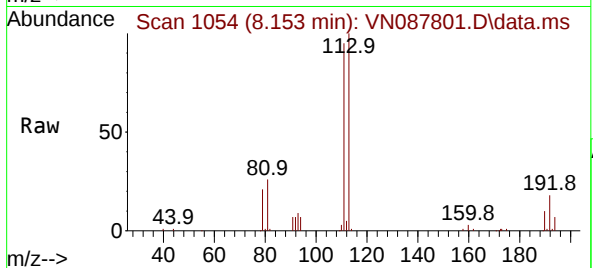
Tgt Ion: 114 Resp: 421806
Ion Ratio Lower Upper
114 100
63 24.2 0.0 45.2
88 17.0 0.0 33.4



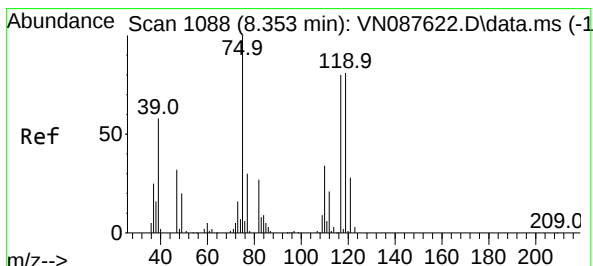
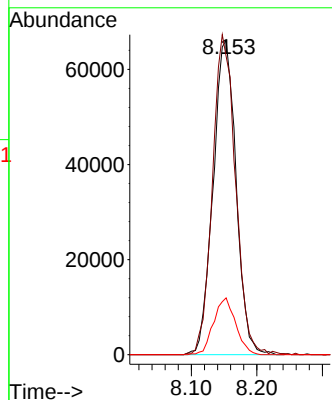
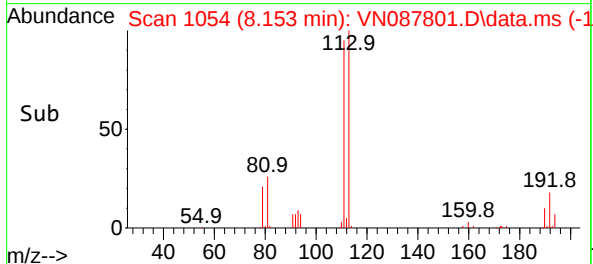


#35
Dibromofluoromethane
Concen: 52.809 ug/l
RT: 8.153 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

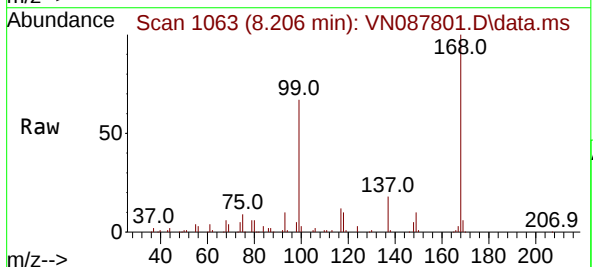
Instrument :
MSVOA_N
ClientSampleId :
MH-385



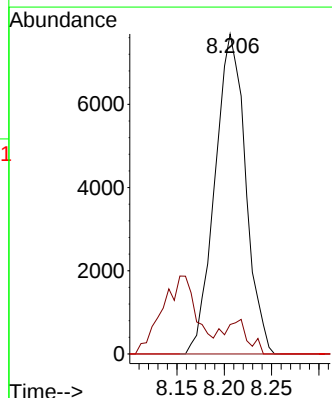
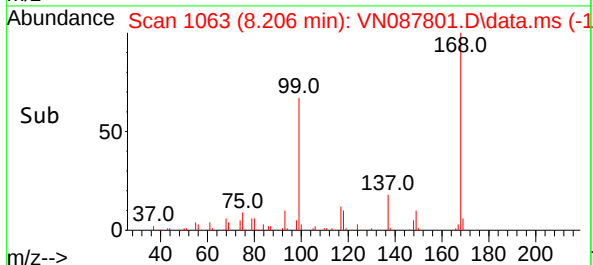
Tgt Ion:113 Resp: 160827
Ion Ratio Lower Upper
113 100
111 102.0 82.8 124.2
192 17.4 12.8 19.2

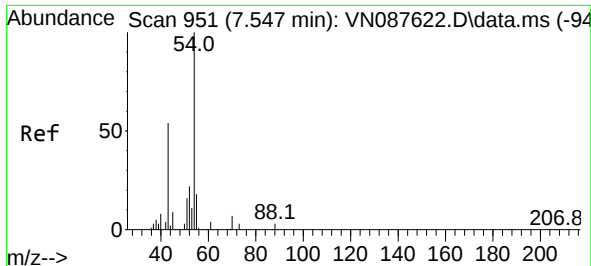


#36
1,1-Dichloropropene
Concen: 3.706 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27



Tgt Ion: 75 Resp: 17314
Ion Ratio Lower Upper
75 100
110 8.6 15.9 47.6#
77 0.0 24.4 36.6#

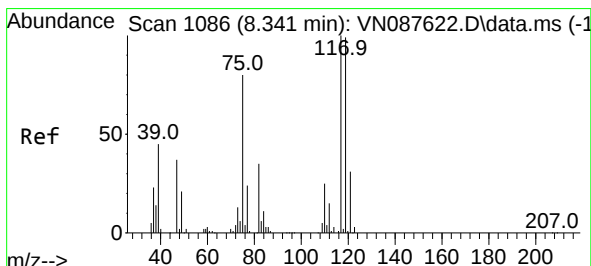
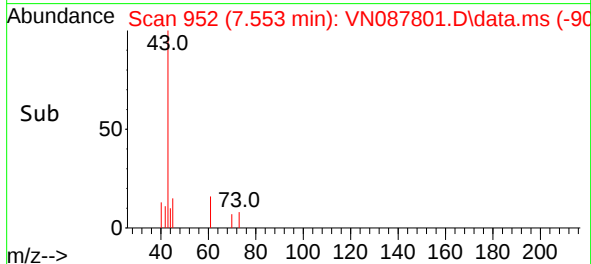
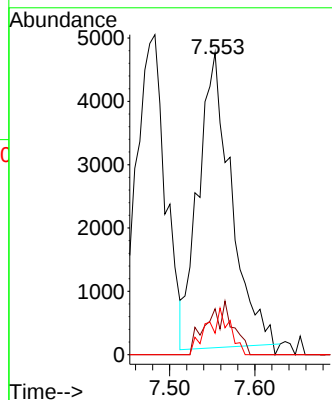
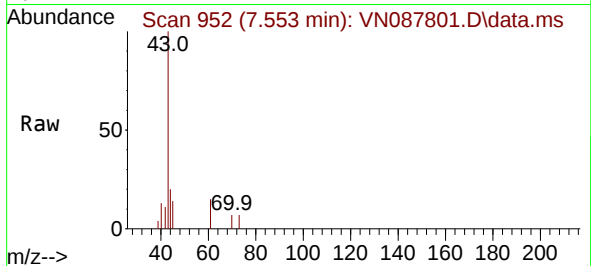




#37
Ethyl Acetate
Concen: 1.943 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

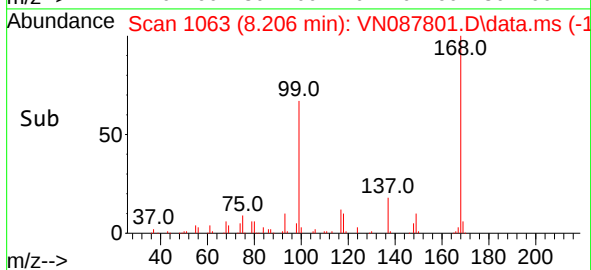
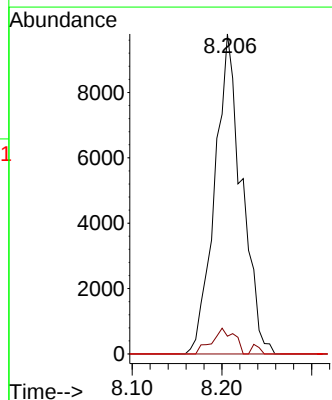
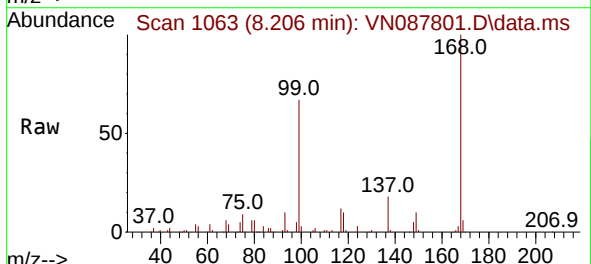
Instrument :
MSVOA_N
ClientSampleId :
MH-385

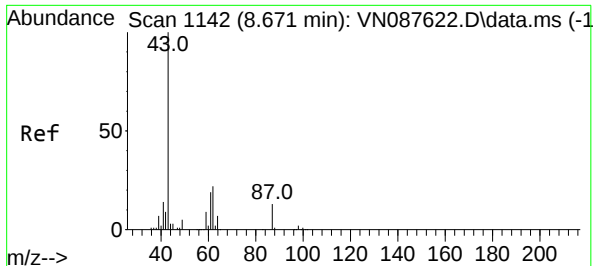
Tgt Ion: 43 Resp: 12404
Ion Ratio Lower Upper
43 100
61 8.1 9.3 13.9#
70 11.0 7.0 10.6#



#38
Carbon Tetrachloride
Concen: 4.432 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 117 Resp: 20445
Ion Ratio Lower Upper
117 100
119 5.5 79.0 118.6#
121 0.0 25.0 37.6#

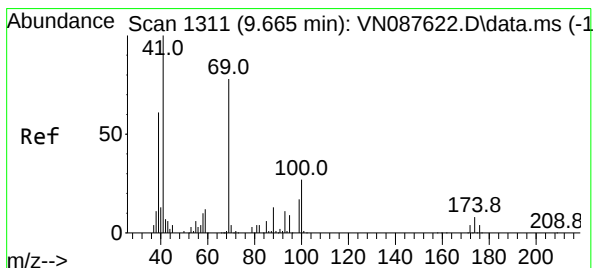
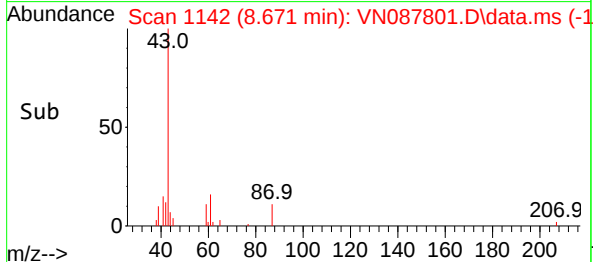
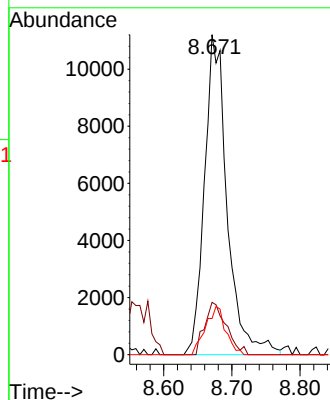
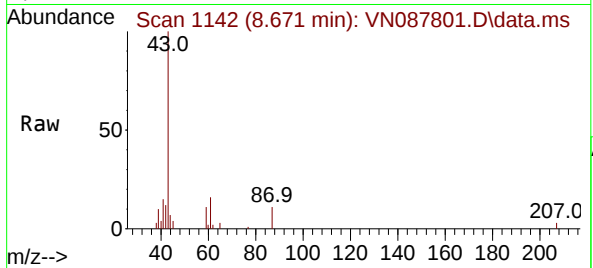




#43
Isopropyl Acetate
Concen: 2.598 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

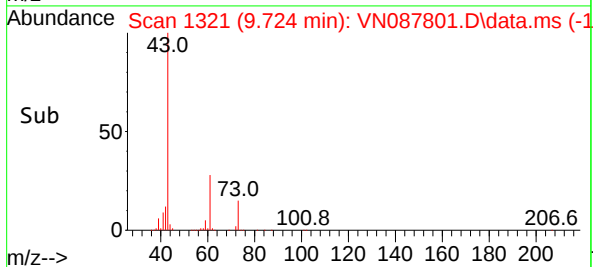
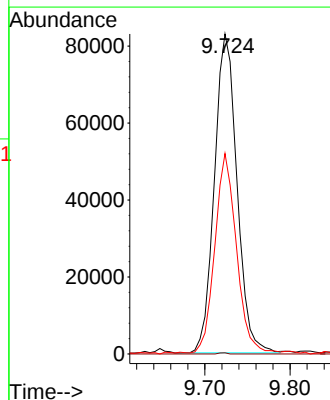
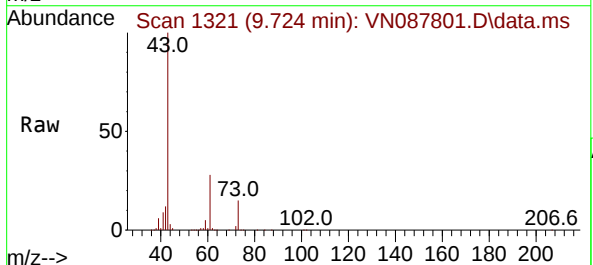
Instrument :
MSVOA_N
ClientSampleId :
MH-385

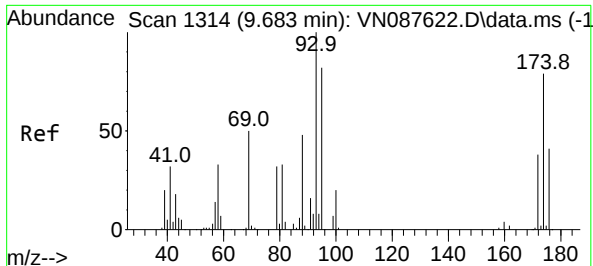
Tgt Ion: 43 Resp: 25897
Ion Ratio Lower Upper
43 100
61 15.6 18.8 28.2#
87 13.4 9.6 14.4



#48
Methyl methacrylate
Concen: 32.327 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 41 Resp: 152413
Ion Ratio Lower Upper
41 100
69 0.1 62.7 94.1#
39 59.4 52.9 79.3





#49

1,4-Dioxane

Concen: 0.900 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.023 min

Lab File: VN087801.D

Acq: 11 Sep 2025 16:27

Instrument :

MSVOA_N

ClientSampleId :

MH-385

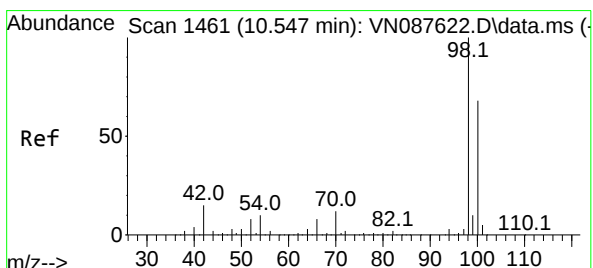
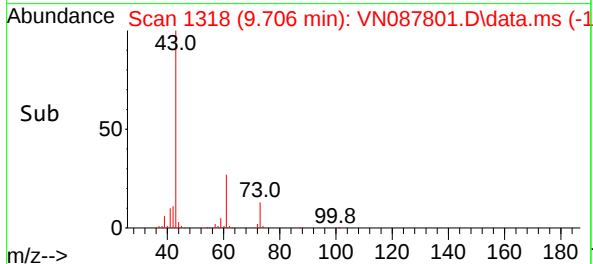
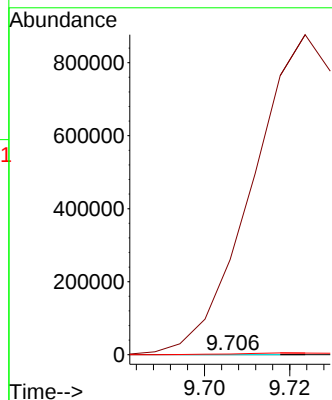
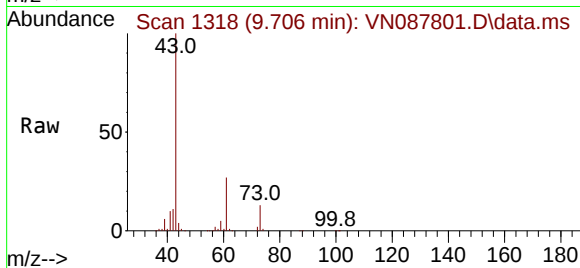
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 2909505.5 0.0 0.0#

58 17525.5 57.9 86.9#



#50

Toluene-d8

Concen: 50.078 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087801.D

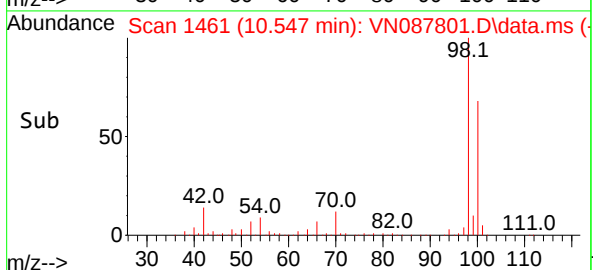
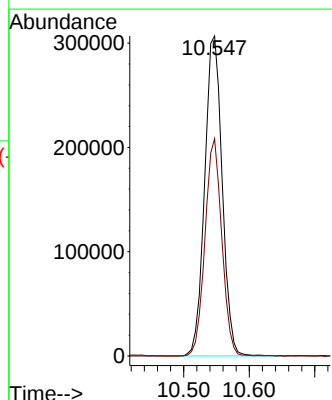
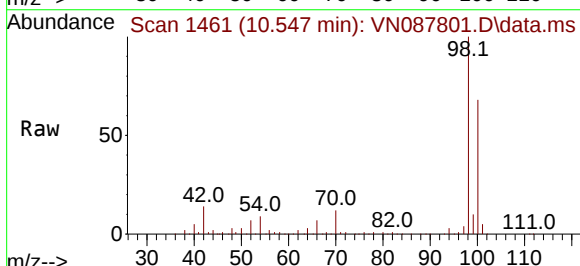
Acq: 11 Sep 2025 16:27

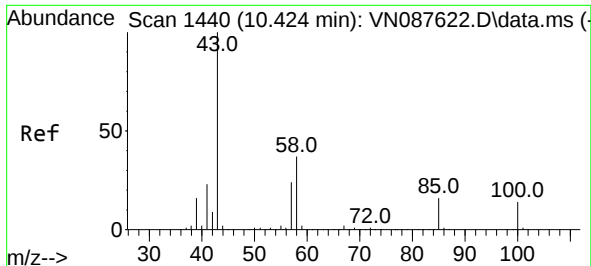
Tgt Ion: 98 Resp: 570818

Ion Ratio Lower Upper

98 100

100 65.0 52.8 79.2

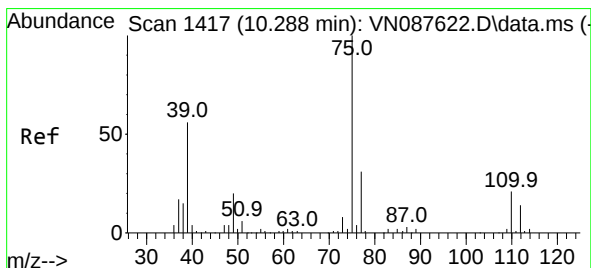
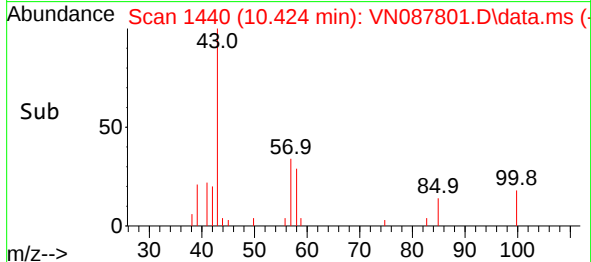
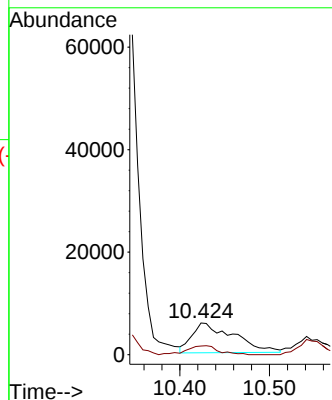
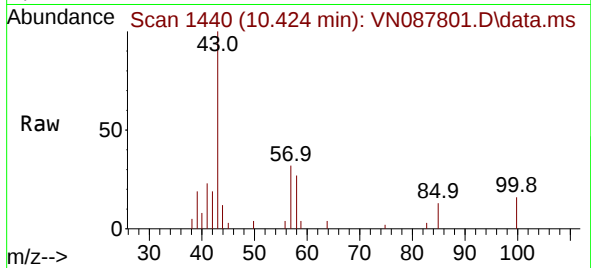




#51
4-Methyl-2-Pentanone
Concen: 3.141 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

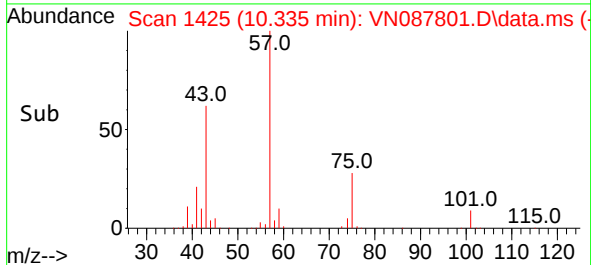
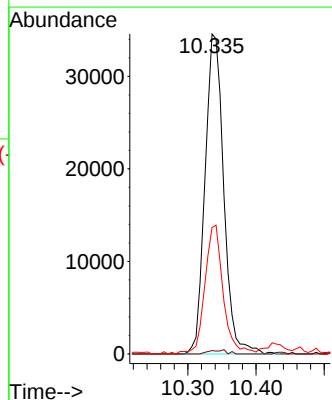
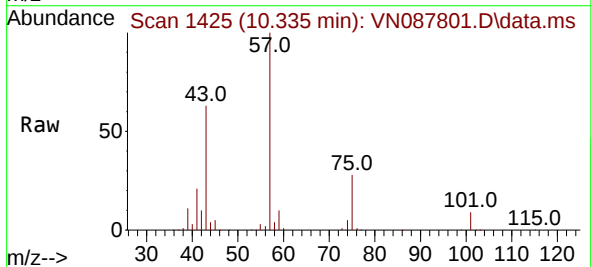
Instrument :
MSVOA_N
ClientSampleId :
MH-385

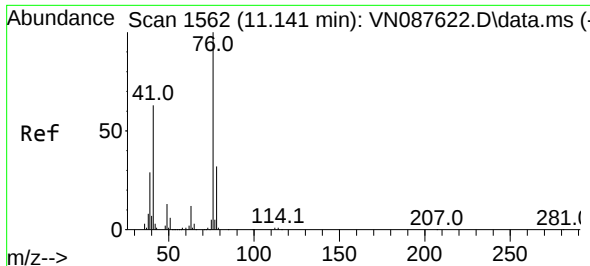
Tgt Ion: 43 Resp: 18891
Ion Ratio Lower Upper
43 100
58 22.8 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 11.151 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 75 Resp: 66021
Ion Ratio Lower Upper
75 100
77 1.1 24.6 37.0#
39 38.8 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.778 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN087801.D

Acq: 11 Sep 2025 16:27

Instrument :

MSVOA_N

ClientSampleId :

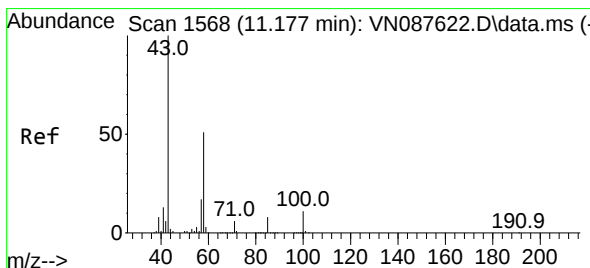
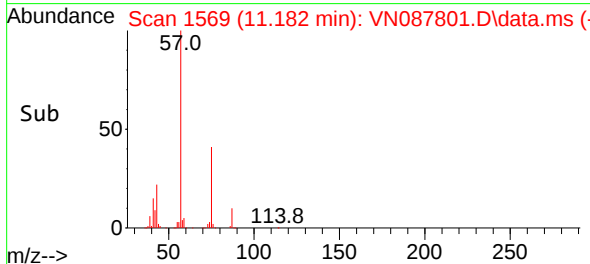
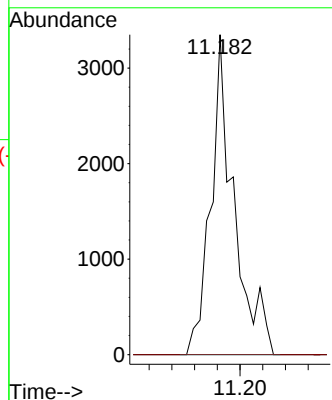
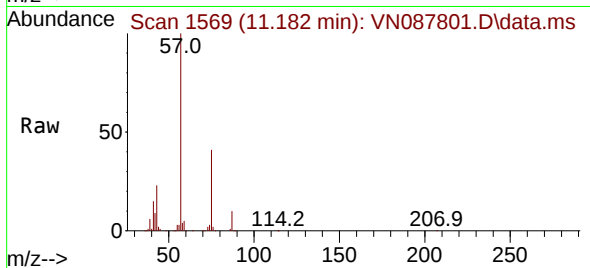
MH-385

Tgt Ion: 76 Resp: 4734

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 22.258 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN087801.D

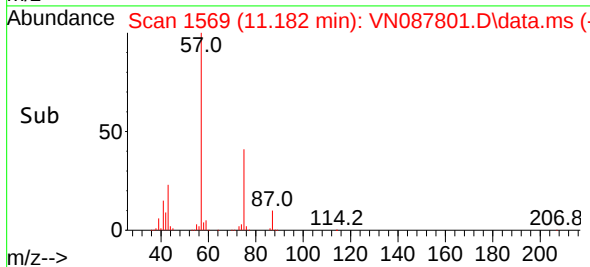
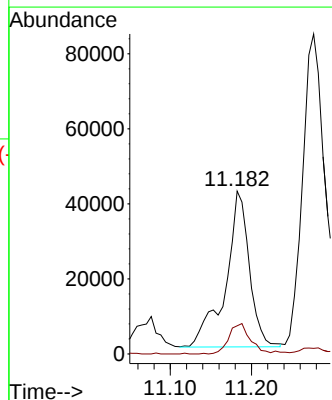
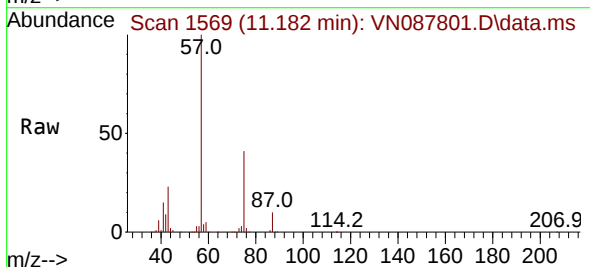
Acq: 11 Sep 2025 16:27

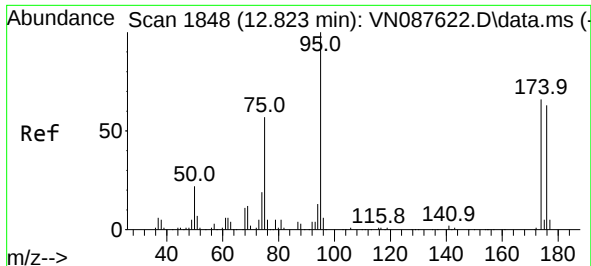
Tgt Ion: 43 Resp: 84595

Ion Ratio Lower Upper

43 100

58 17.5 25.9 77.8#

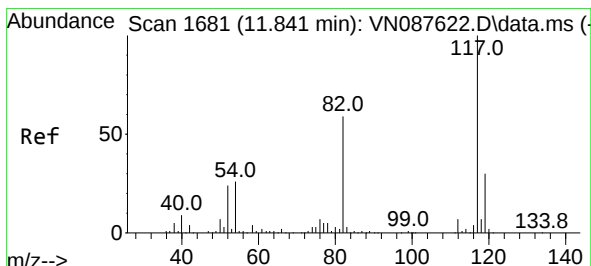
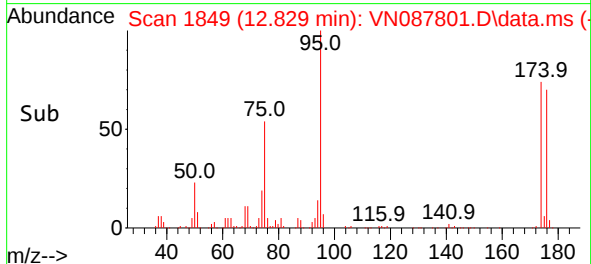
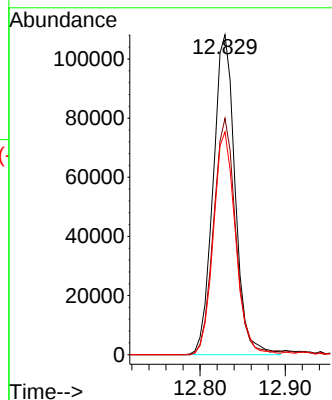
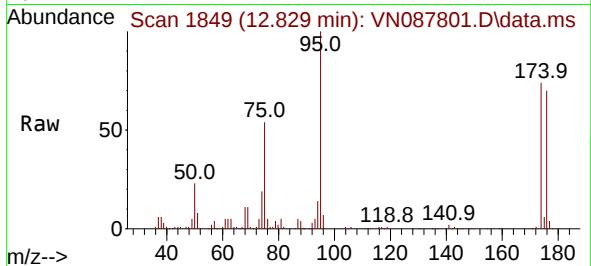




#62
4-Bromofluorobenzene
Concen: 47.854 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

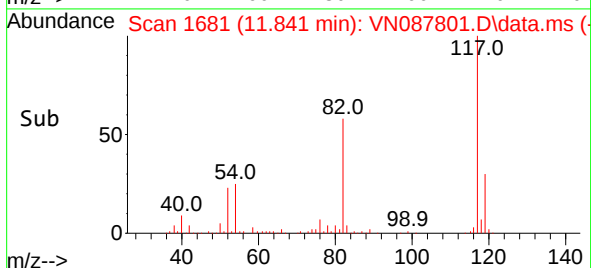
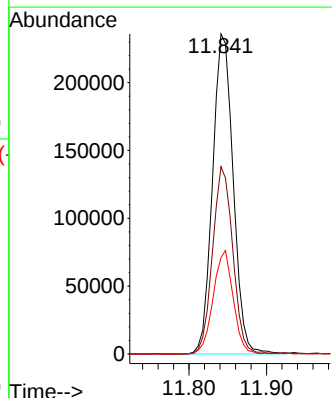
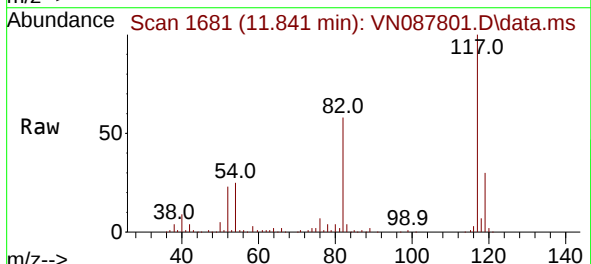
Instrument :
MSVOA_N
ClientSampleId :
MH-385

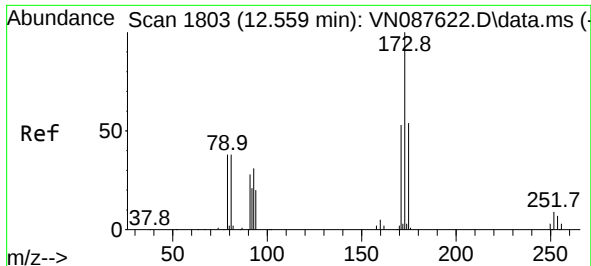
Tgt Ion: 95 Resp: 193983
Ion Ratio Lower Upper
95 100
174 73.9 0.0 138.4
176 70.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 117 Resp: 436039
Ion Ratio Lower Upper
117 100
82 58.5 47.4 71.2
119 30.1 24.3 36.5

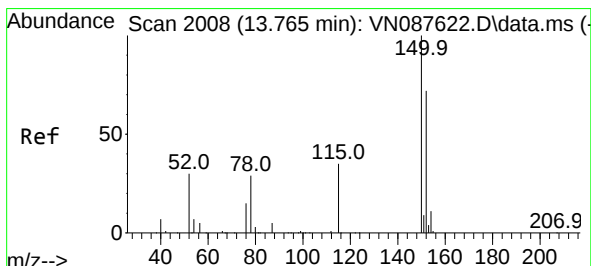
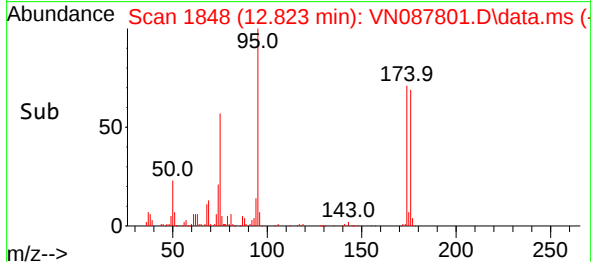
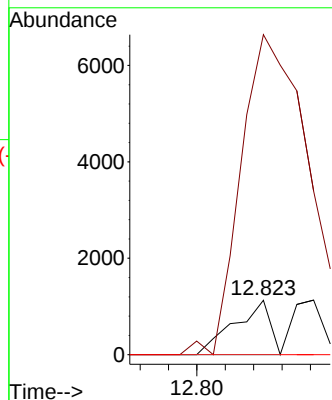
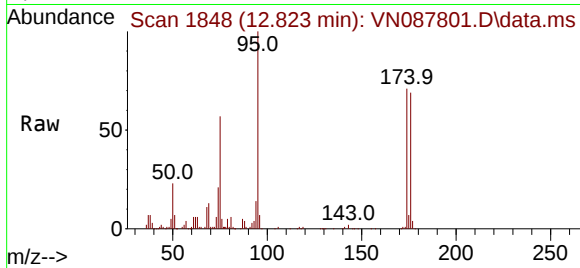




#71
Bromoform
Concen: 0.357 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

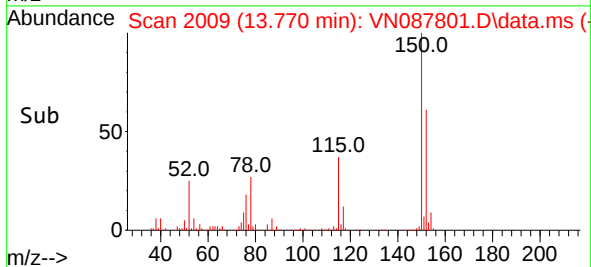
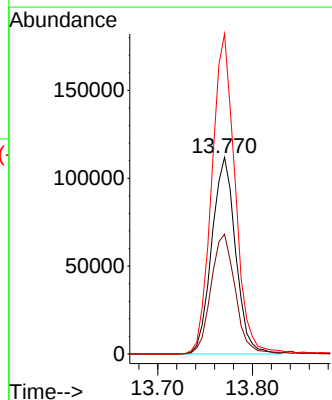
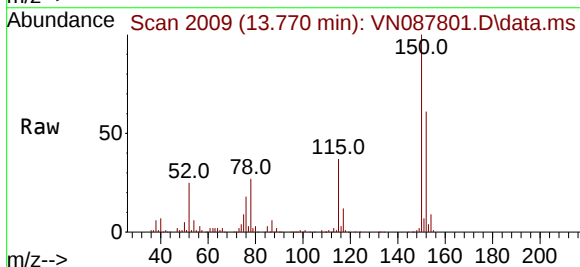
Instrument :
MSVOA_N
ClientSampleId :
MH-385

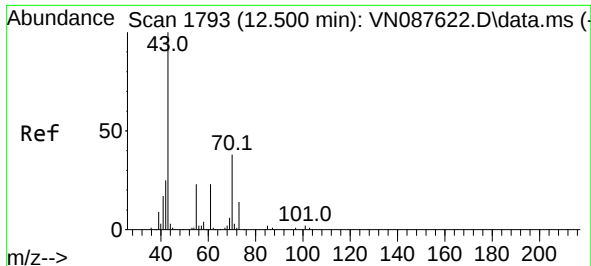
Tgt Ion:173 Resp: 985
Ion Ratio Lower Upper
173 100
175 911.3 24.9 74.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

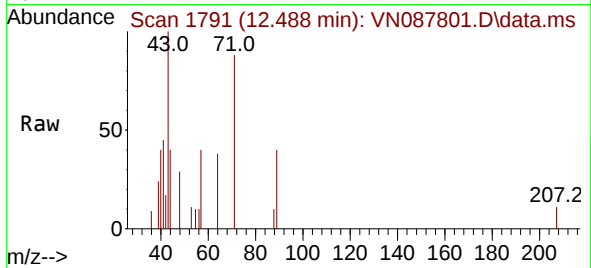
Tgt Ion:152 Resp: 195676
Ion Ratio Lower Upper
152 100
115 61.7 32.3 96.8
150 160.5 0.0 351.0



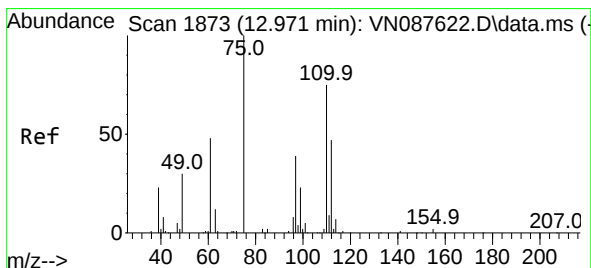
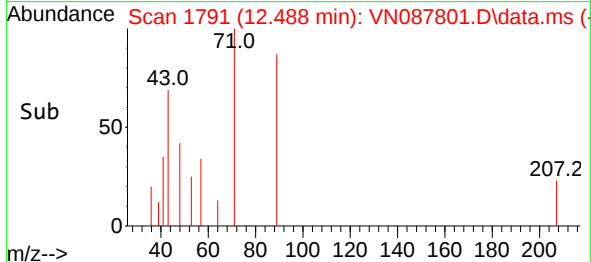
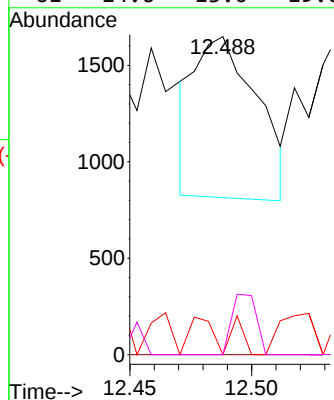


#74
N-amy1 acetate
Concen: 0.250 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Instrument :
MSVOA_N
ClientSampleId :
MH-385

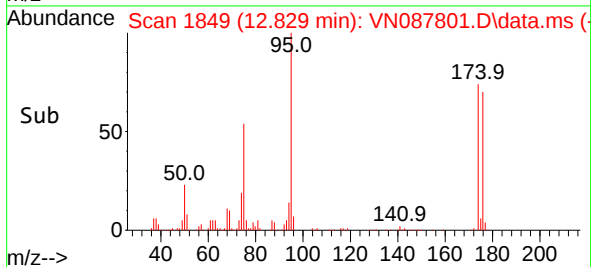
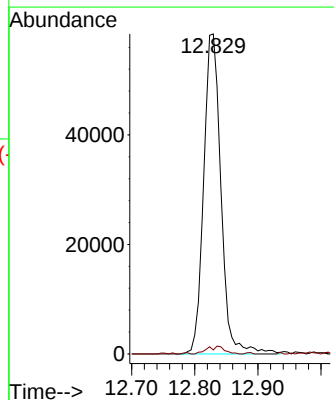
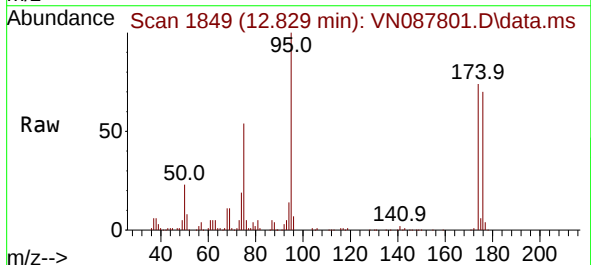


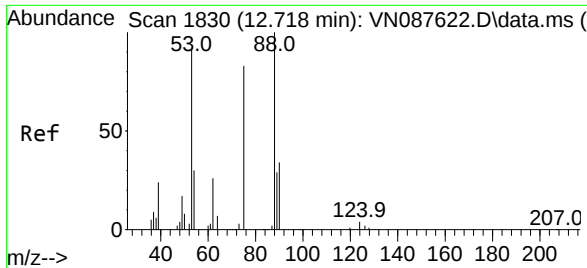
Tgt Ion: 43	Resp: 1497
Ion Ratio	Lower Upper
43 100	
70 0.0	27.6 41.4#
55 8.7	13.0 19.6#
61 14.6	13.0 19.6



#76
1,2,3-Trichloropropane
Concen: 24.194 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087801.D
Acq: 11 Sep 2025 16:27

Tgt Ion: 75	Resp: 111020
Ion Ratio	Lower Upper
75 100	
77 2.5	89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.051 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087801.D
 Acq: 11 Sep 2025 16:27

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-385

Tgt Ion: 75 Resp: 111020
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 1.1 35.6 53.4#

