

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086580.D
 Acq On : 12 May 2025 14:52
 Operator : JC\MD
 Sample : PB167932ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#05

Quant Time: May 13 01:52:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

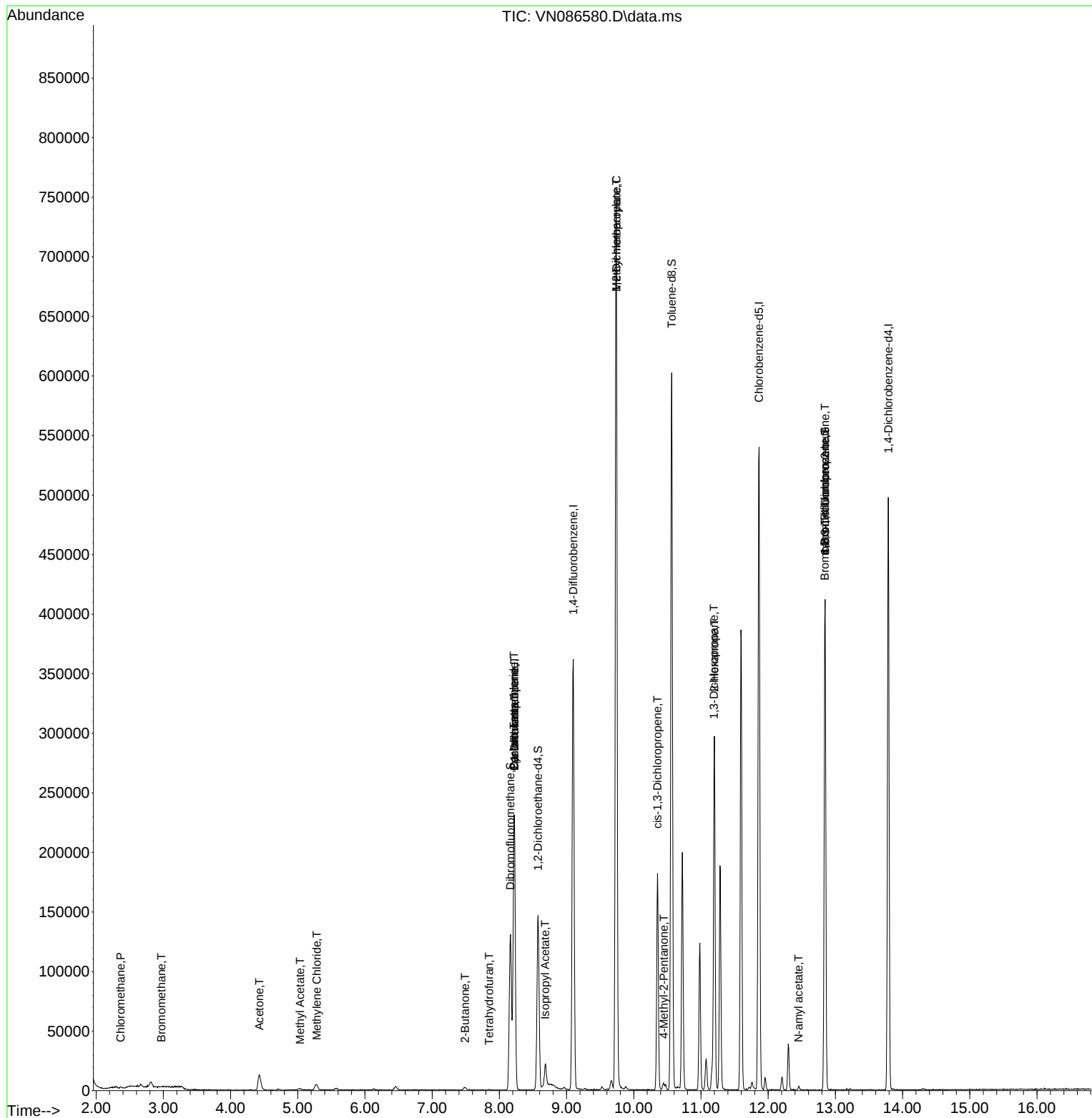
Internal Standards						
1) Pentafluorobenzene	8.224	168	176376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329680	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122640	47.951	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.900%
35) Dibromofluoromethane	8.165	113	96548	63.100	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	126.200%#
50) Toluene-d8	10.565	98	422282	51.639	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.280%
62) 4-Bromofluorobenzene	12.847	95	150491	50.455	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.900%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	871	0.287	ug/l	90
5) Bromomethane	2.971	94	438	0.336	ug/l	84
16) Acetone	4.430	43	25853	24.079	ug/l	100
18) Methyl Acetate	5.036	43	3302	1.076	ug/l #	67
20) Methylene Chloride	5.283	84	4081	1.726	ug/l #	80
25) 2-Butanone	7.488	43	4425	2.780	ug/l	98
29) Tetrahydrofuran	7.847	42	475	0.446	ug/l #	51
31) Cyclohexane	8.224	56	3967	0.957	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14272	4.670	ug/l #	50
38) Carbon Tetrachloride	8.218	117	17869	6.140	ug/l #	17
43) Isopropyl Acetate	8.682	43	29040	3.224	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	984	0.411	ug/l #	43
48) Methyl methacrylate	9.741	41	69704	24.670	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	4605	1.398	ug/l #	83
54) cis-1,3-Dichloropropene	10.353	75	34498	8.531	ug/l #	59
57) 1,3-Dichloropropane	11.194	76	2974	0.763	ug/l #	43
59) 2-Hexanone	11.200	43	56709	23.205	ug/l #	42
71) Bromoform	12.841	173	854	0.480	ug/l #	1
74) N-amyl acetate	12.453	43	2281	0.411	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	76790	23.856	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	76790	57.293	ug/l #	10

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

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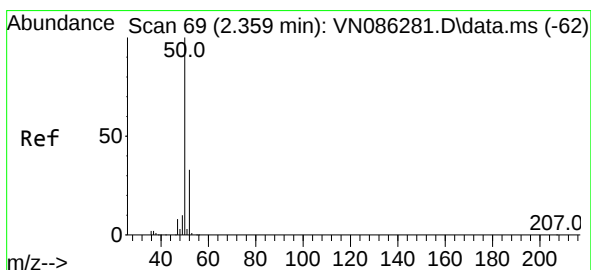
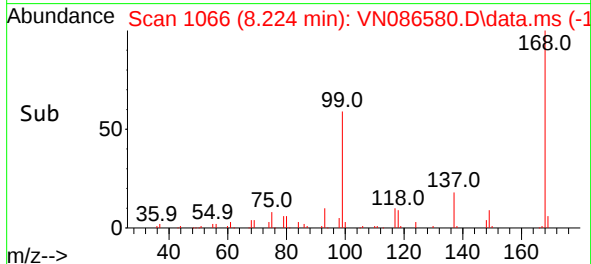
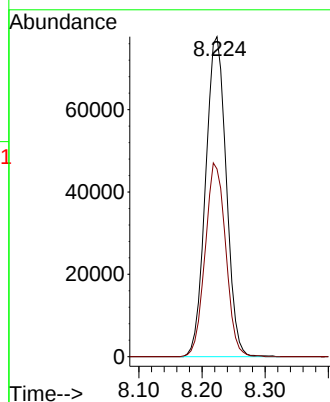
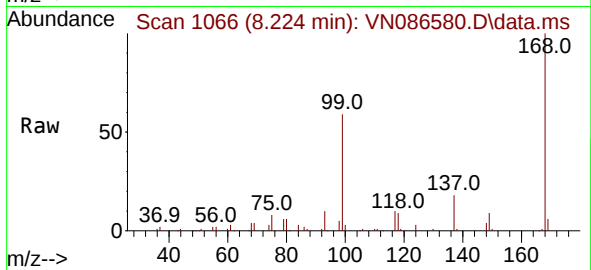




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

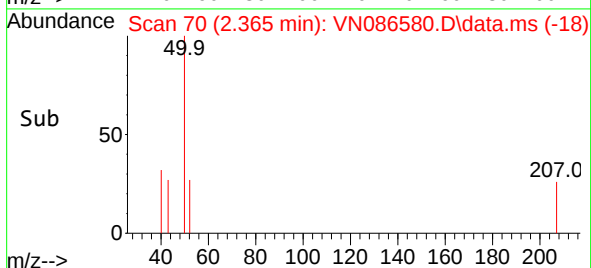
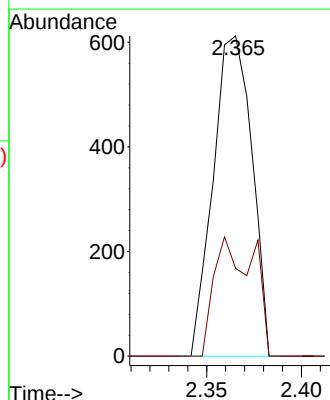
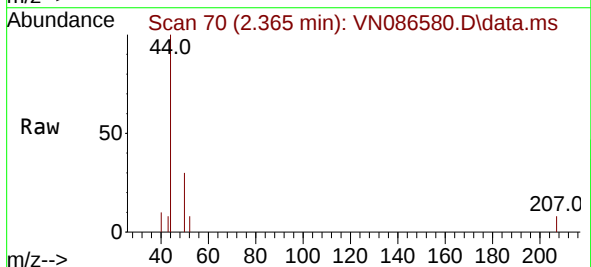
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

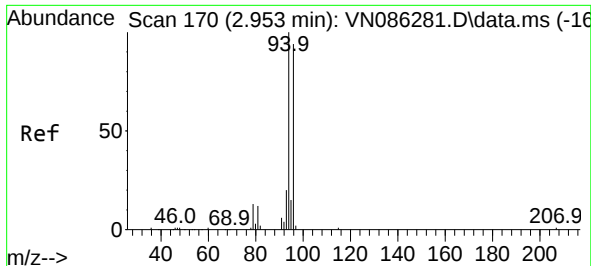
Tgt Ion:168 Resp: 176376
Ion Ratio Lower Upper
168 100
99 58.6 52.5 78.7



#3
Chloromethane
Concen: 0.287 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 50 Resp: 871
Ion Ratio Lower Upper
50 100
52 27.5 26.5 39.7

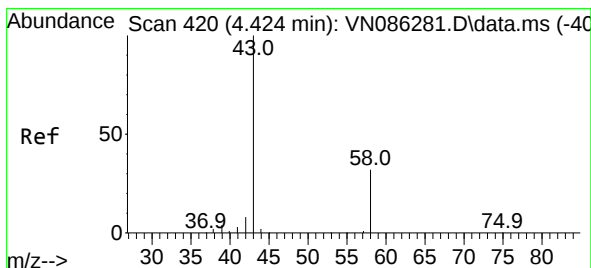
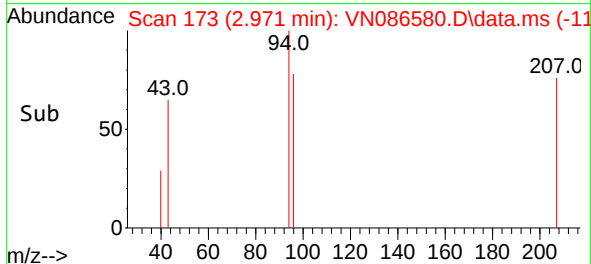
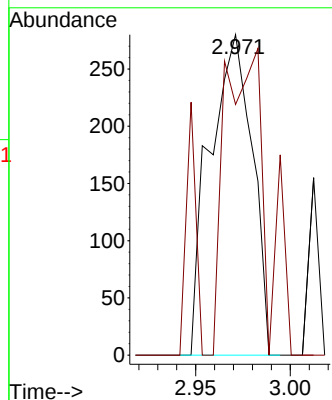
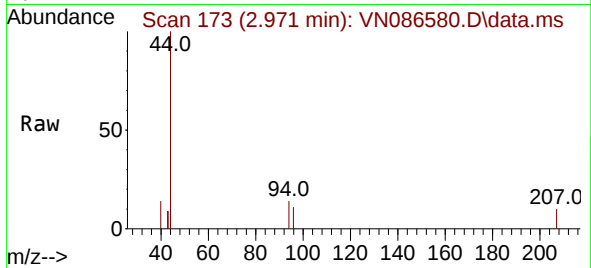




#5
Bromomethane
Concen: 0.336 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

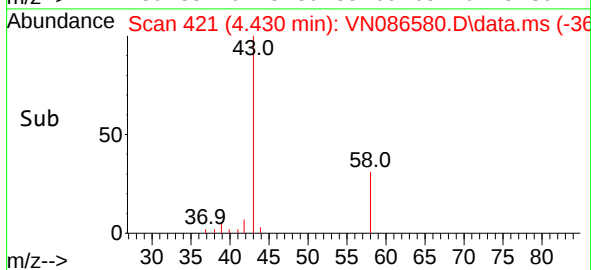
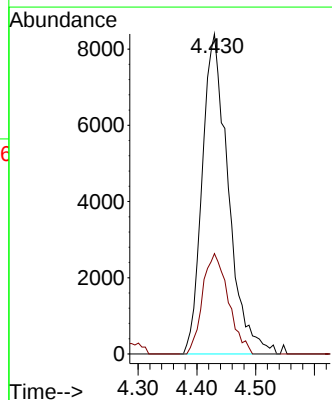
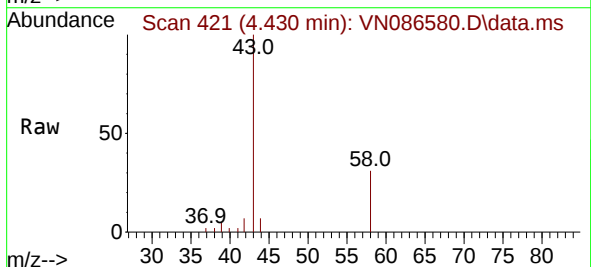
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

Tgt Ion: 94 Resp: 438
Ion Ratio Lower Upper
94 100
96 78.2 75.2 112.8



#16
Acetone
Concen: 24.079 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 43 Resp: 25853
Ion Ratio Lower Upper
43 100
58 31.3 25.3 37.9

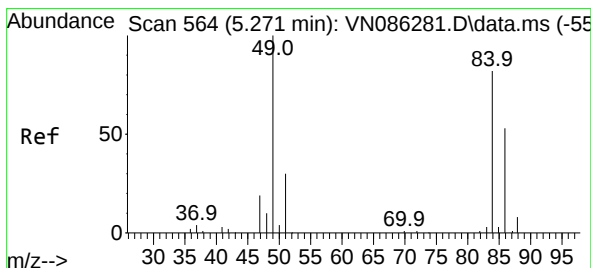
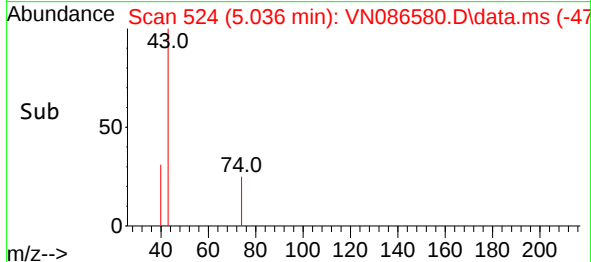
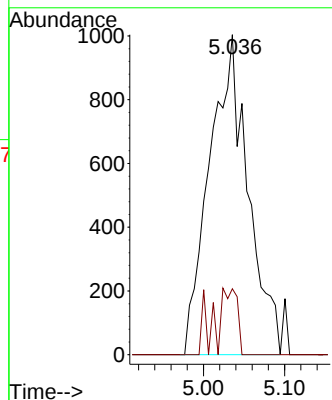
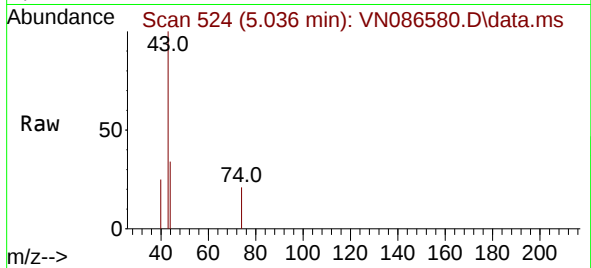




#18
Methyl Acetate
Concen: 1.076 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

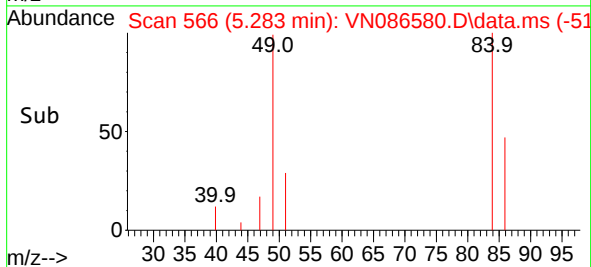
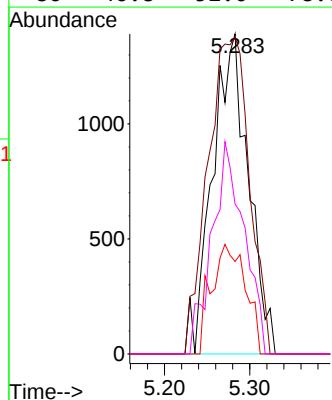
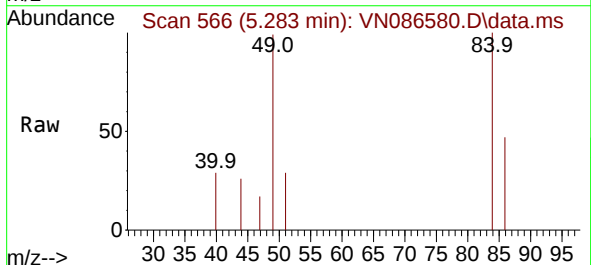
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

Tgt Ion: 43 Resp: 3302
Ion Ratio Lower Upper
43 100
74 8.3 19.8 29.6#



#20
Methylene Chloride
Concen: 1.726 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 84 Resp: 4081
Ion Ratio Lower Upper
84 100
49 99.1 98.2 147.2
51 28.9 29.8 44.6#
86 46.8 52.0 78.0#

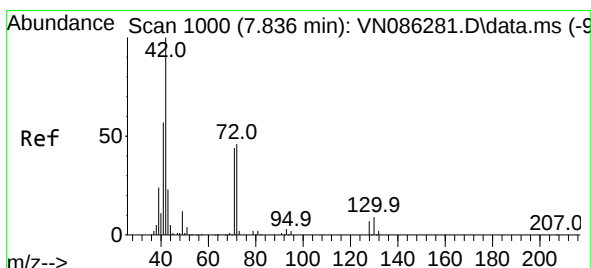
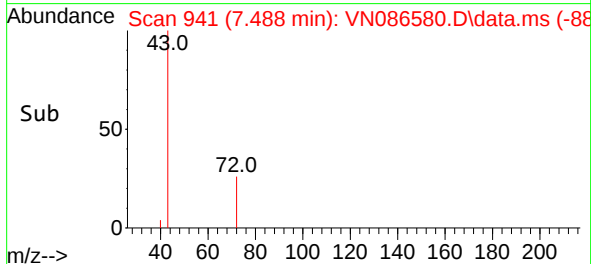
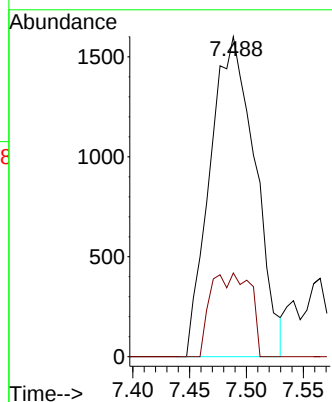
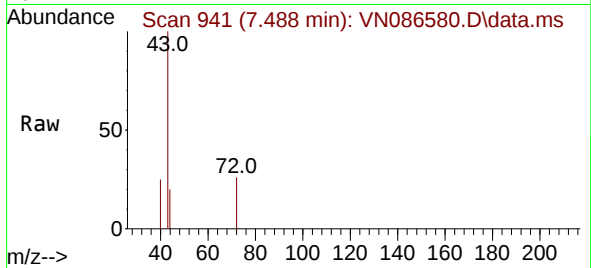




#25
2-Butanone
Concen: 2.780 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

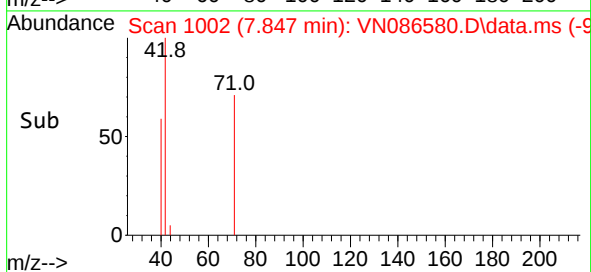
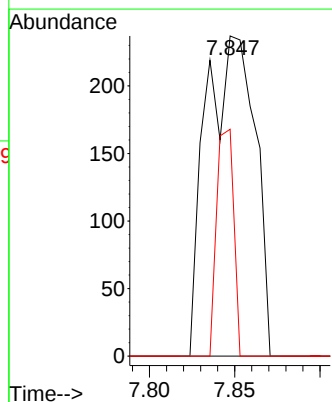
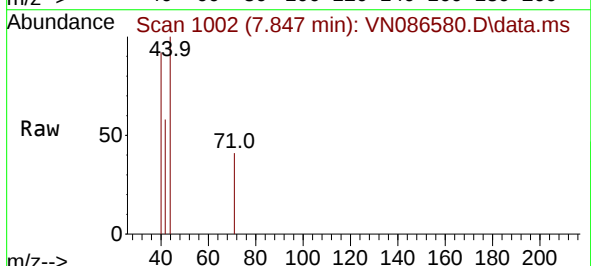
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

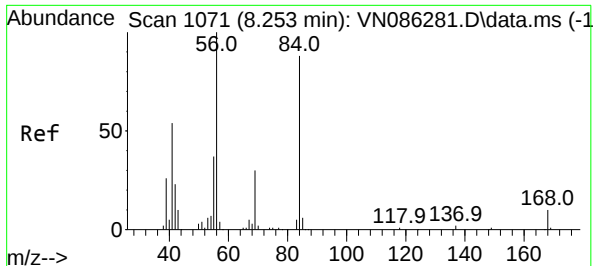
Tgt Ion: 43 Resp: 4425
Ion Ratio Lower Upper
43 100
72 26.2 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.446 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

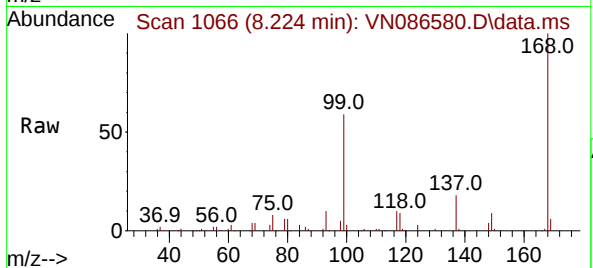
Tgt Ion: 42 Resp: 475
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 24.6 34.0 51.0#



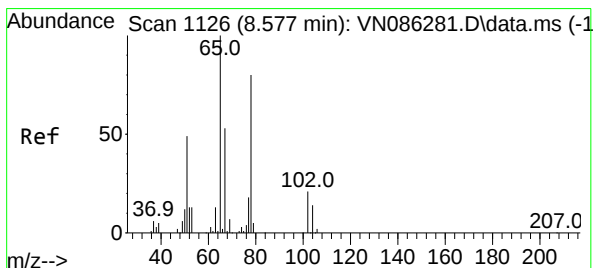
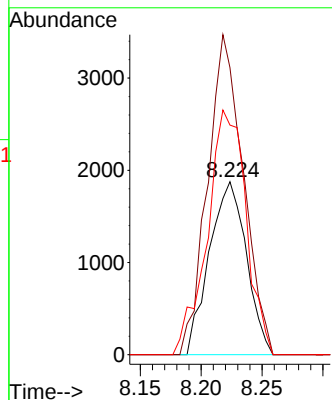
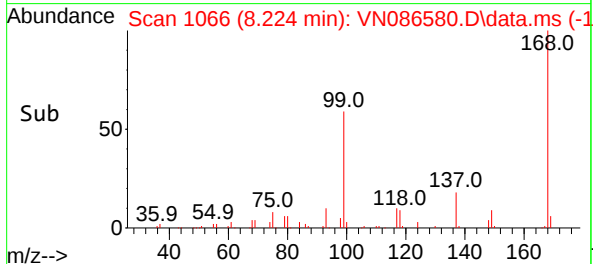


#31
Cyclohexane
Concen: 0.957 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Instrument :
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ClientSampleId :
PB167932ZHE#05

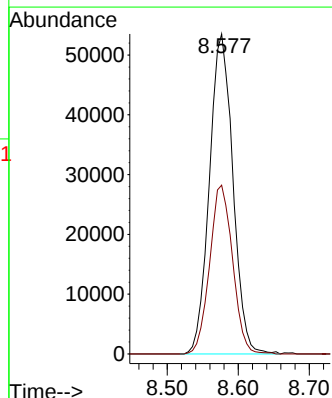
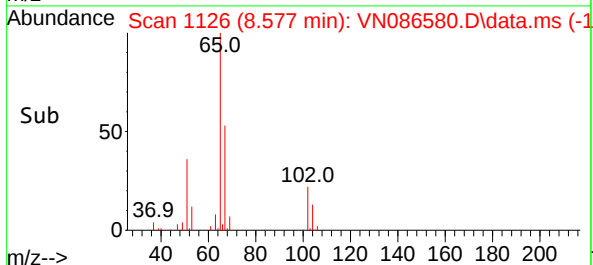
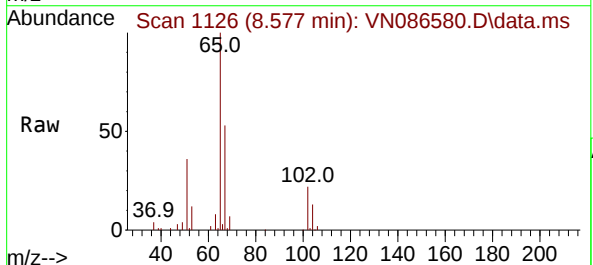


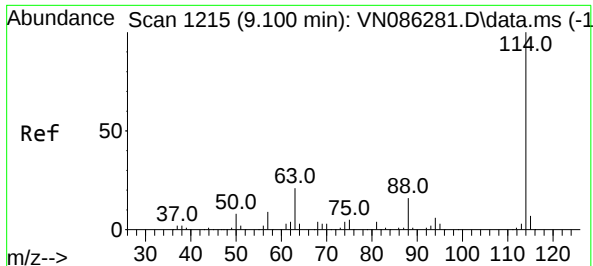
Tgt Ion: 56 Resp: 3967
Ion Ratio Lower Upper
56 100
69 166.0 24.2 36.2#
84 132.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 47.951 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 65 Resp: 122640
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#05

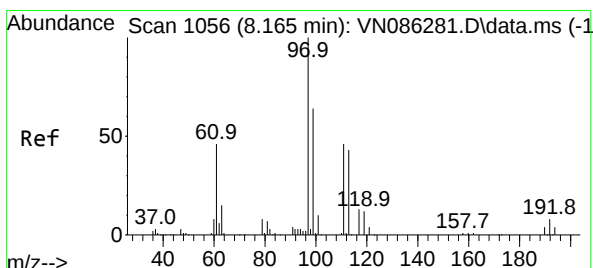
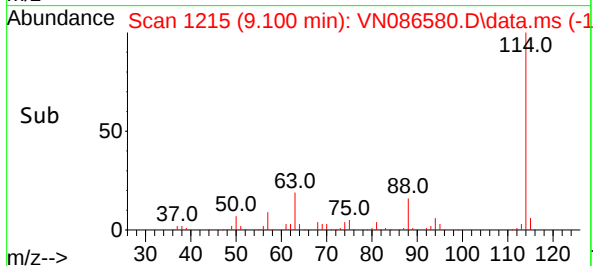
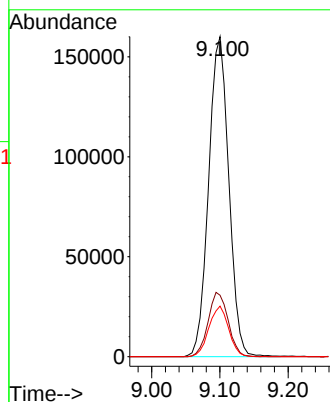
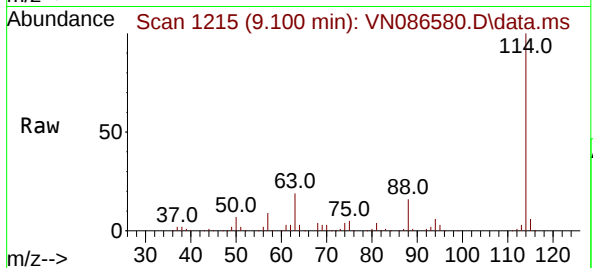
Tgt Ion:114 Resp: 329680

Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

88 15.8 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.100 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

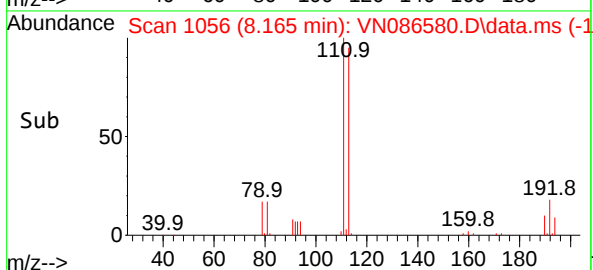
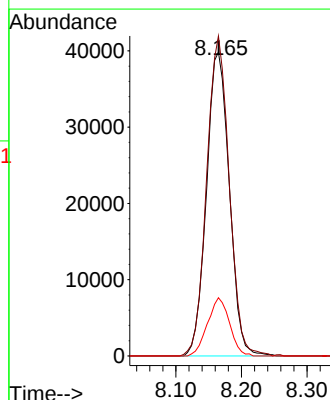
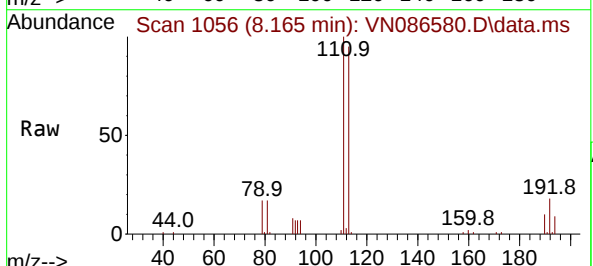
Tgt Ion:113 Resp: 96548

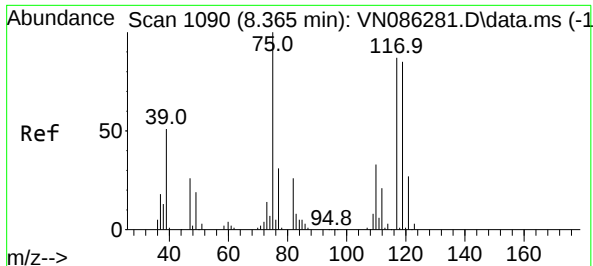
Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.0

192 18.4 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.670 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

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ClientSampleId :

PB167932ZHE#05

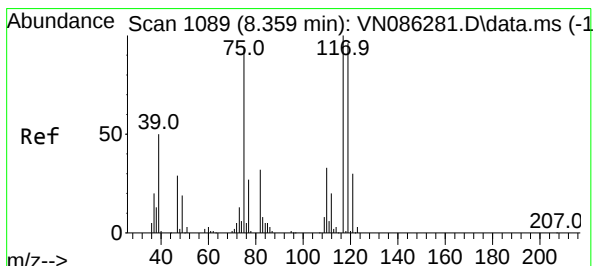
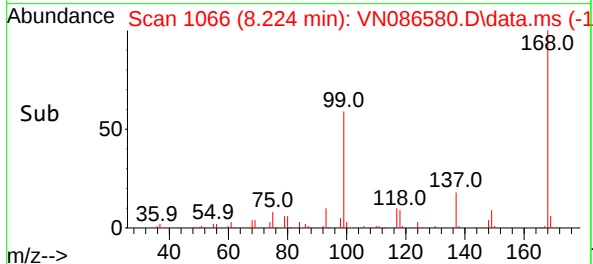
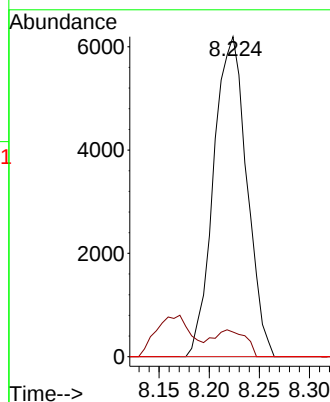
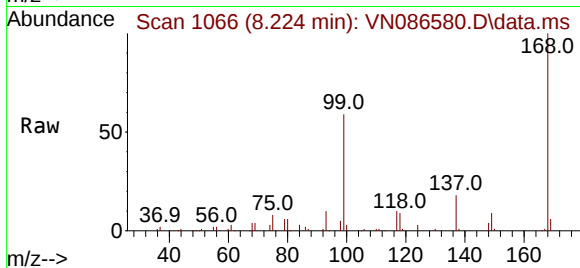
Tgt Ion: 75 Resp: 14272

Ion Ratio Lower Upper

75 100

110 8.2 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.140 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

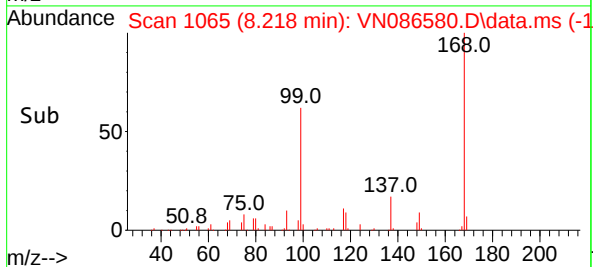
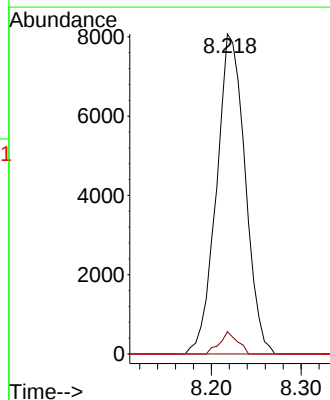
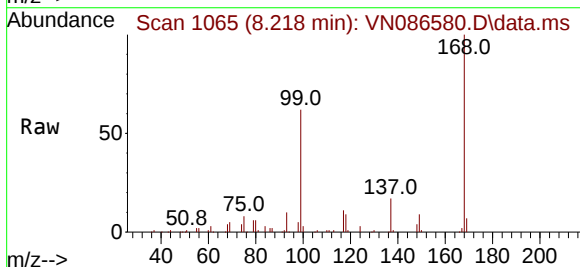
Tgt Ion: 117 Resp: 17869

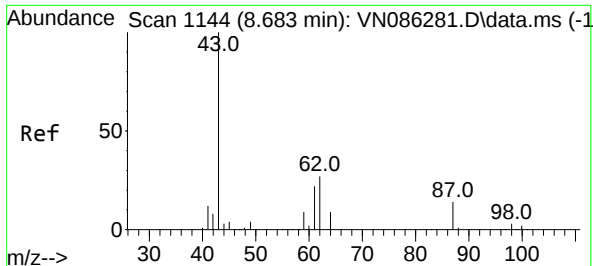
Ion Ratio Lower Upper

117 100

119 7.0 76.8 115.2#

121 0.0 23.8 35.8#

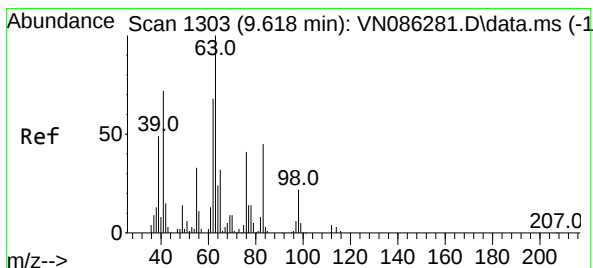
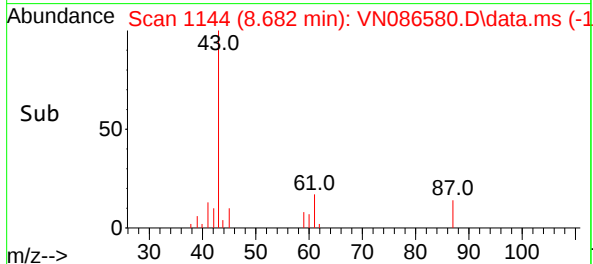
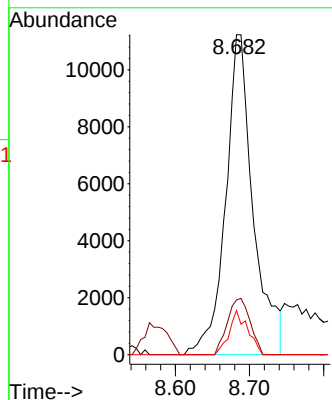
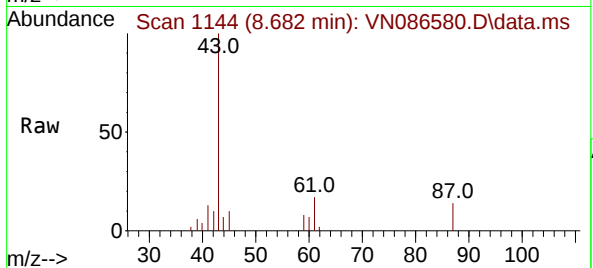




#43
Isopropyl Acetate
Concen: 3.224 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

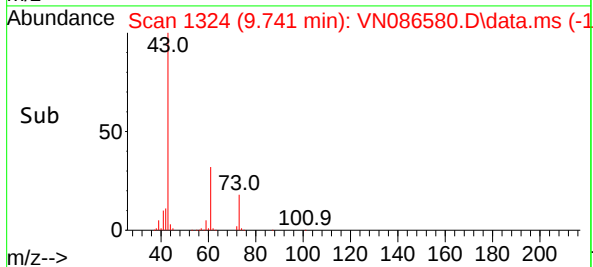
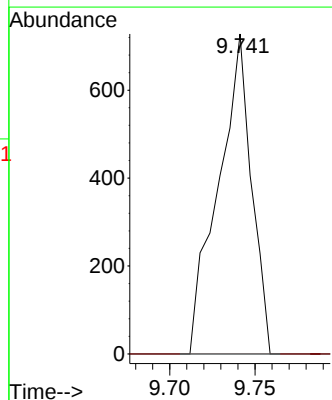
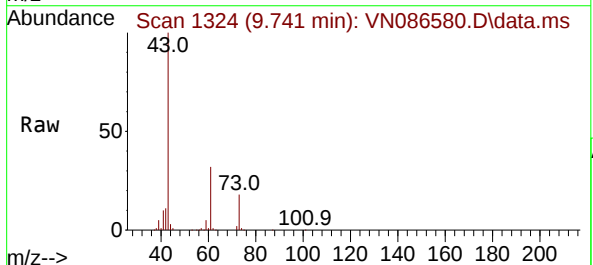
Instrument : MSVOA_N
ClientSampleId : PB167932ZHE#05

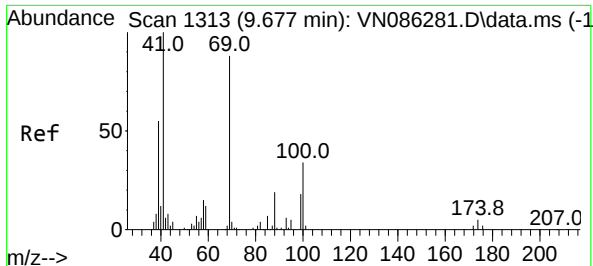
Tgt Ion: 43 Resp: 29040
Ion Ratio Lower Upper
43 100
61 14.5 20.5 30.7#
87 9.3 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.411 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 63 Resp: 984
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 24.670 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#05

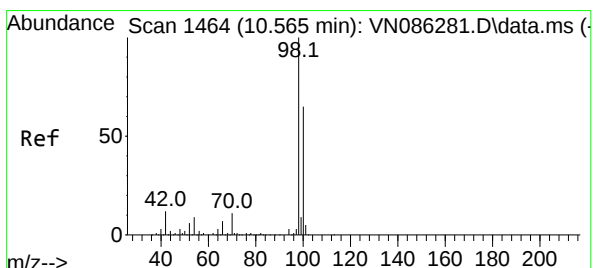
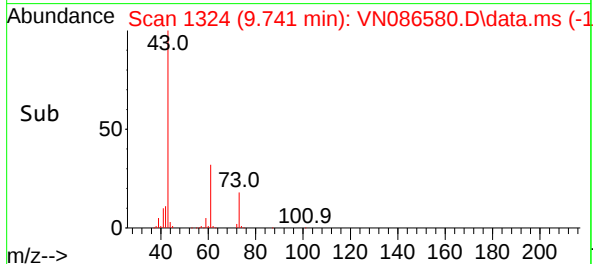
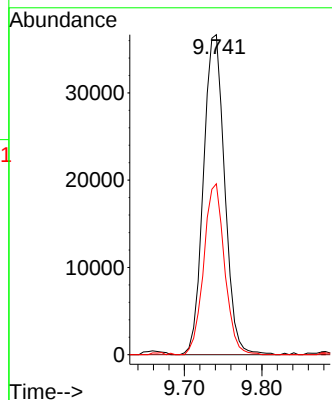
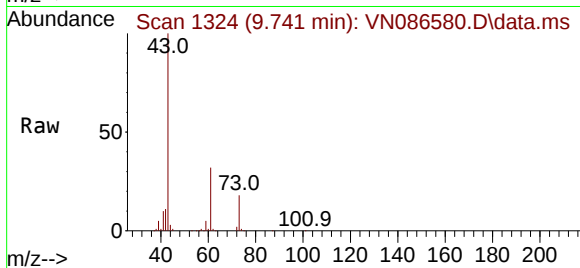
Tgt Ion: 41 Resp: 69704

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.5 45.2 67.8



#50

Toluene-d8

Concen: 51.639 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086580.D

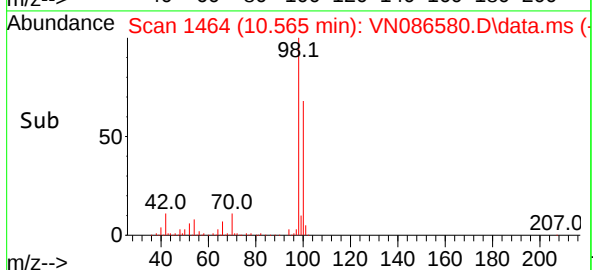
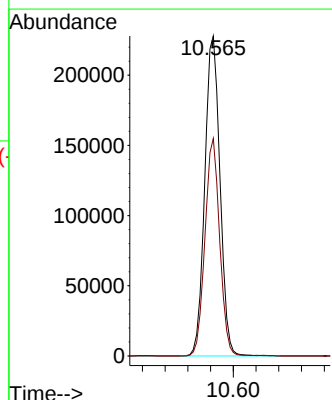
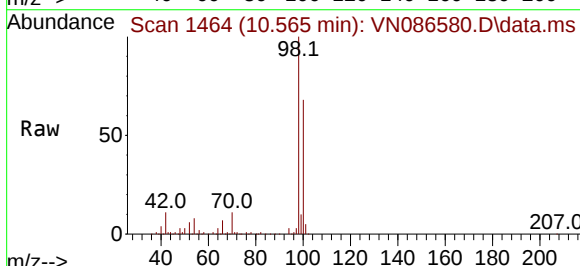
Acq: 12 May 2025 14:52

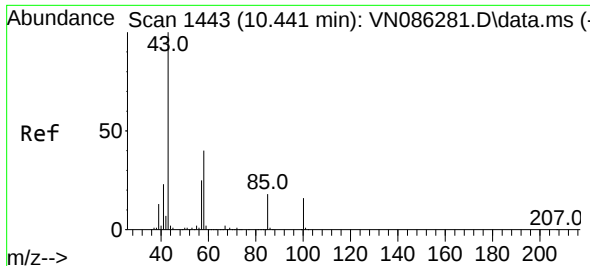
Tgt Ion: 98 Resp: 422282

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7

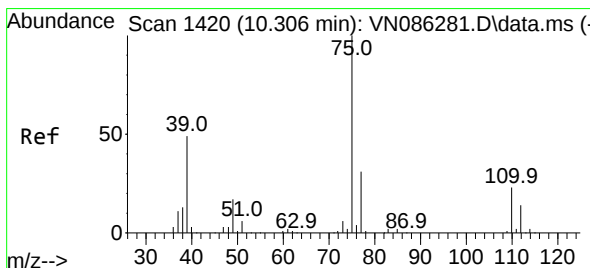
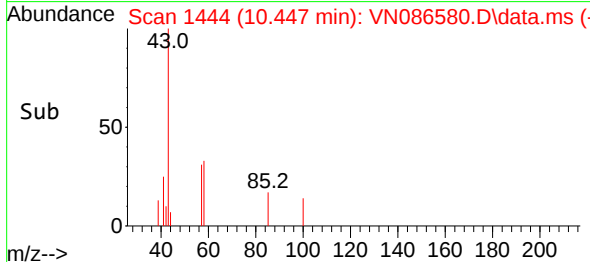
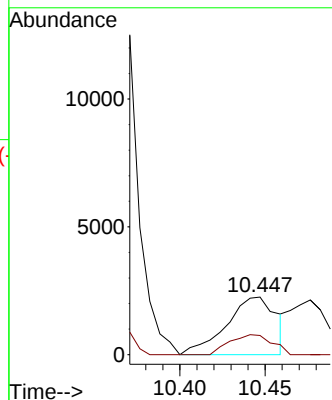
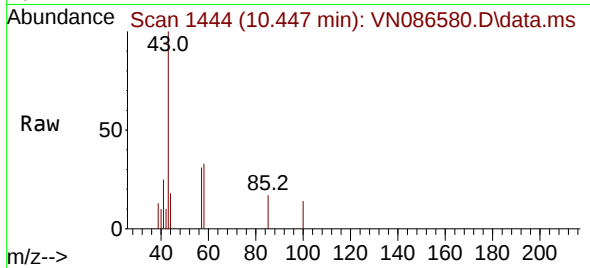




#51
4-Methyl-2-Pentanone
Concen: 1.398 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

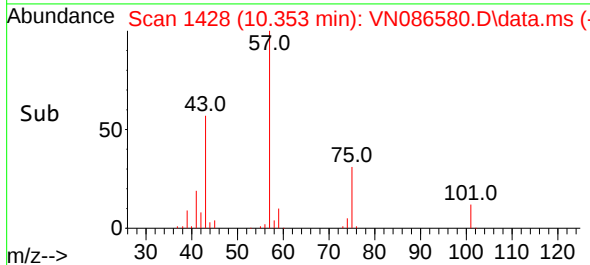
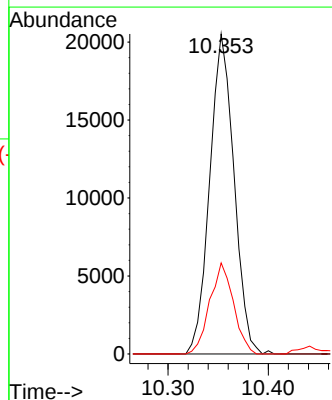
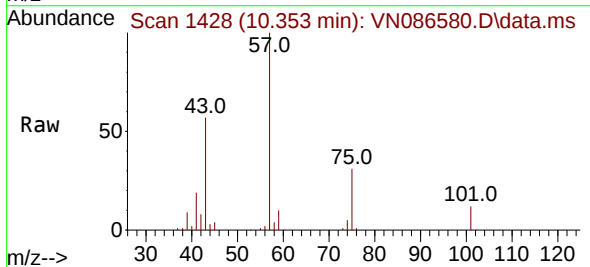
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

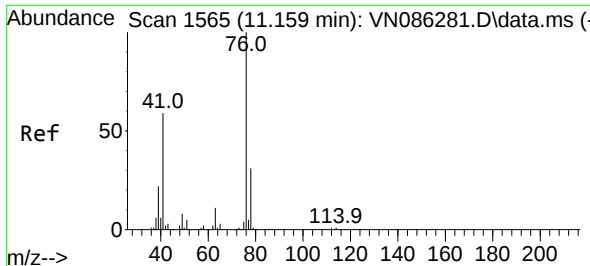
Tgt Ion: 43 Resp: 4605
Ion Ratio Lower Upper
43 100
58 29.6 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 8.531 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 75 Resp: 34498
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 28.5 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.763 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086580.D

Acq: 12 May 2025 14:52

Instrument :

MSVOA_N

ClientSampleId :

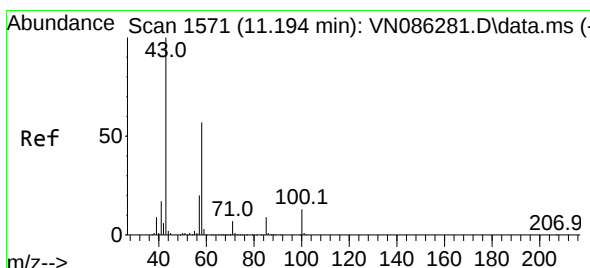
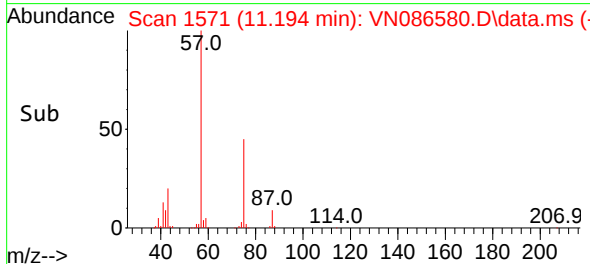
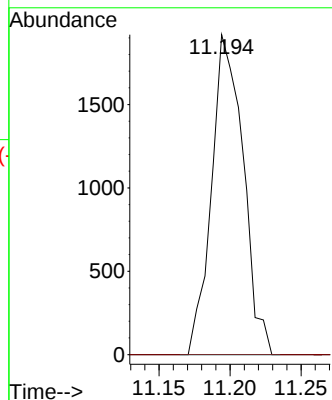
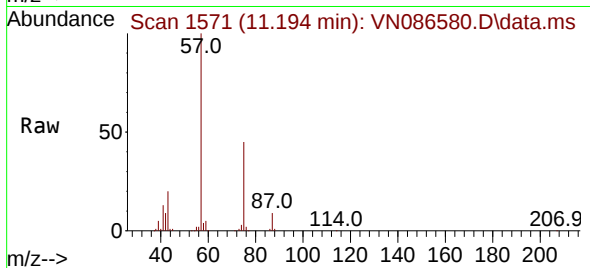
PB167932ZHE#05

Tgt Ion: 76 Resp: 2974

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 23.205 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086580.D

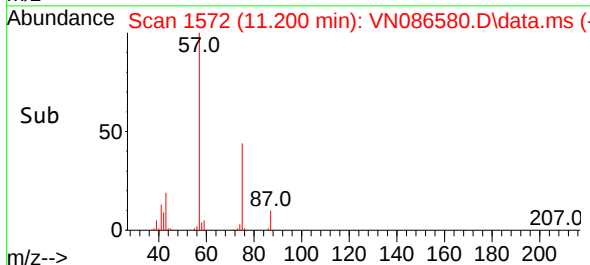
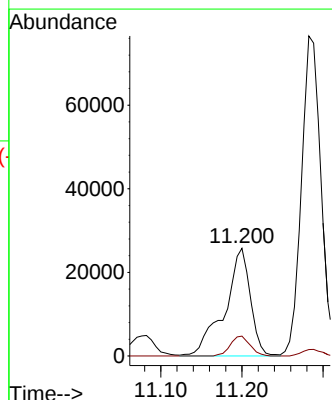
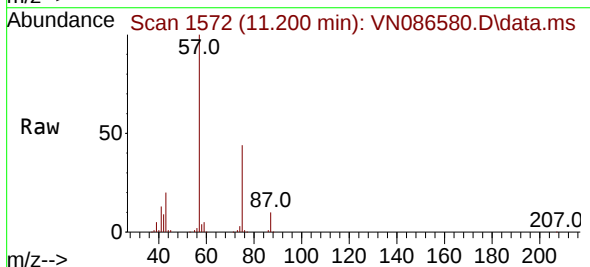
Acq: 12 May 2025 14:52

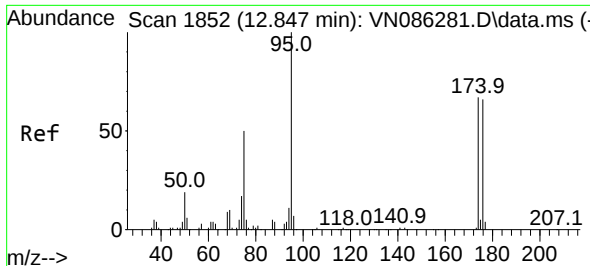
Tgt Ion: 43 Resp: 56709

Ion Ratio Lower Upper

43 100

58 14.1 28.3 85.0#

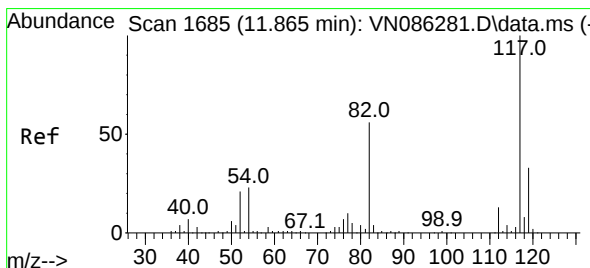
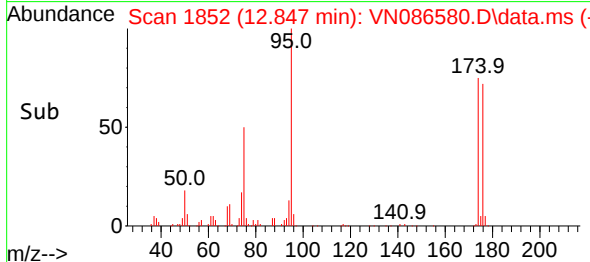
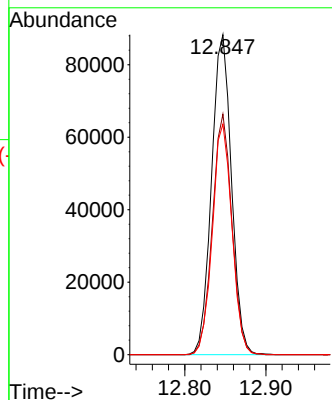
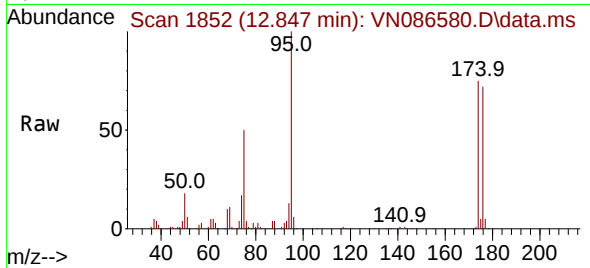




#62
4-Bromofluorobenzene
Concen: 50.455 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

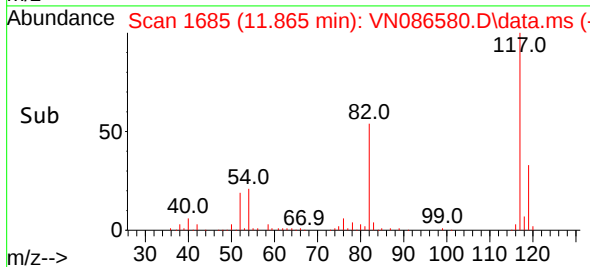
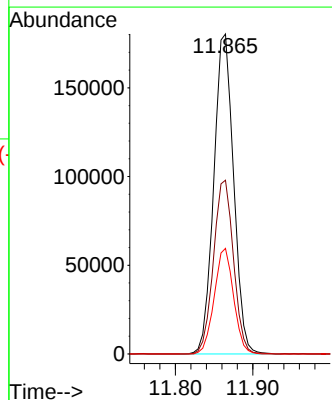
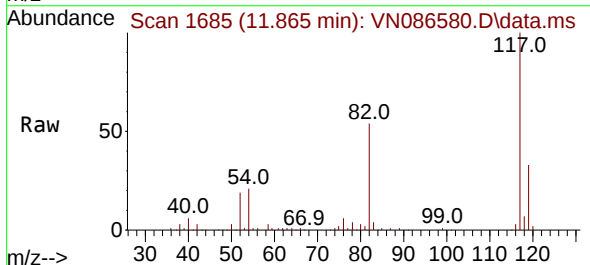
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

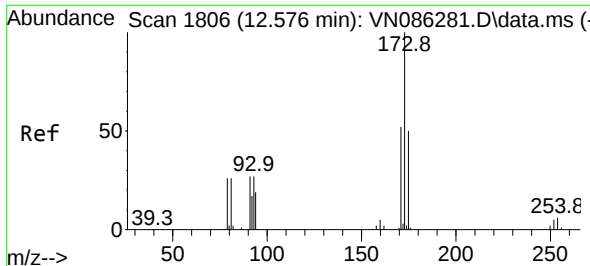
Tgt Ion: 95 Resp: 150491
Ion Ratio Lower Upper
95 100
174 73.9 0.0 133.4
176 70.9 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 117 Resp: 320968
Ion Ratio Lower Upper
117 100
82 54.3 44.7 67.1
119 33.0 26.4 39.6

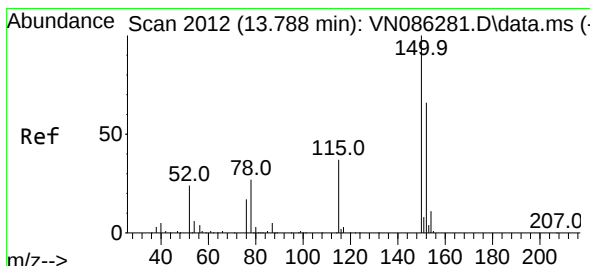
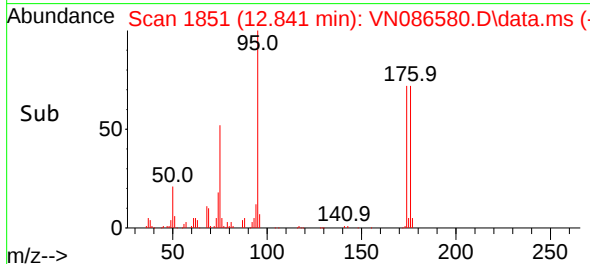
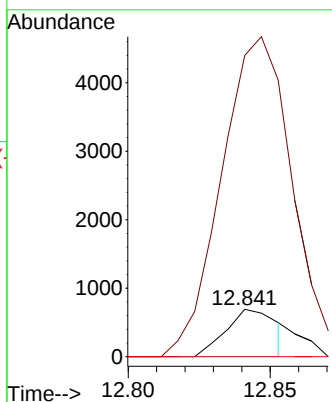
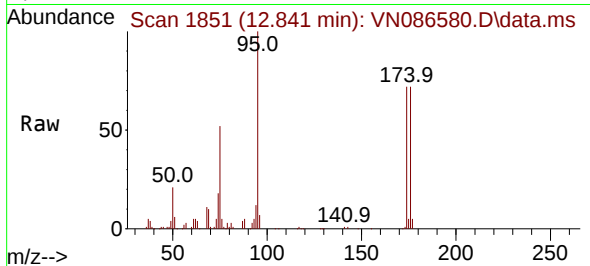




#71
Bromoform
Concen: 0.480 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

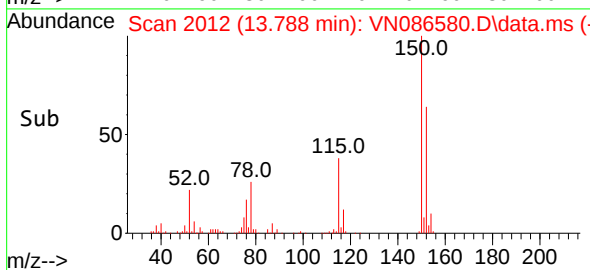
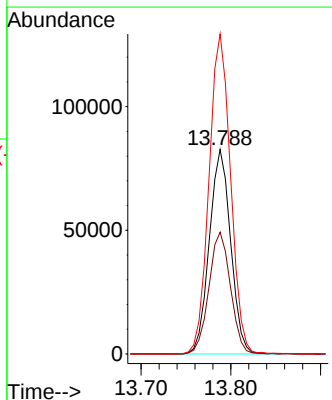
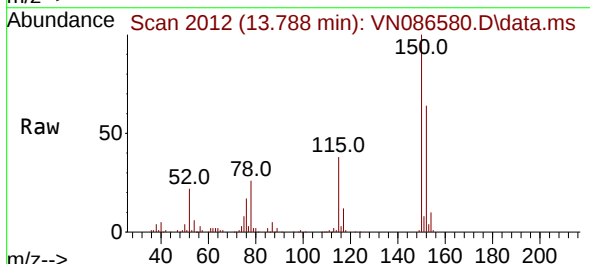
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

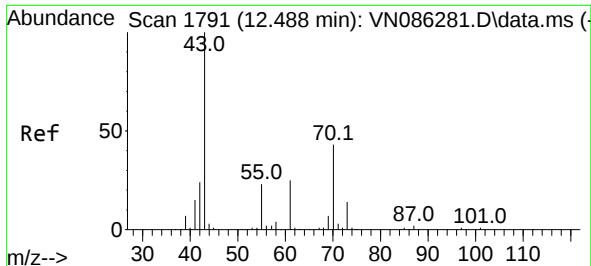
Tgt Ion:173 Resp: 854
Ion Ratio Lower Upper
173 100
175 786.4 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion:152 Resp: 136404
Ion Ratio Lower Upper
152 100
115 60.3 31.9 95.9
150 158.3 0.0 352.0

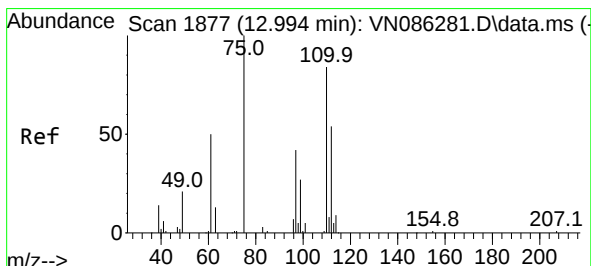
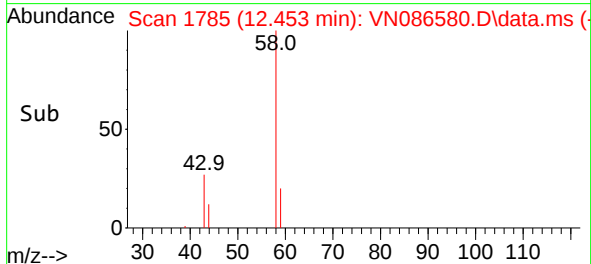
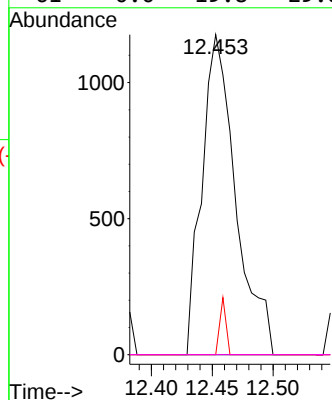
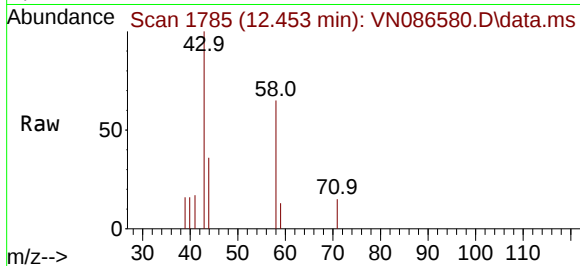




#74
N-amy1 acetate
Concen: 0.411 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

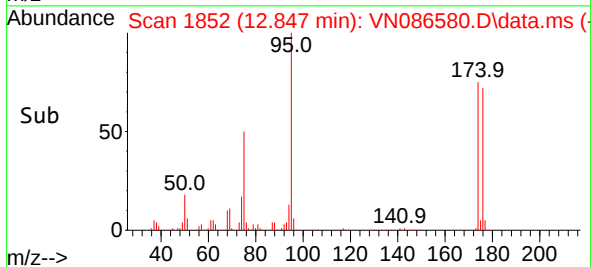
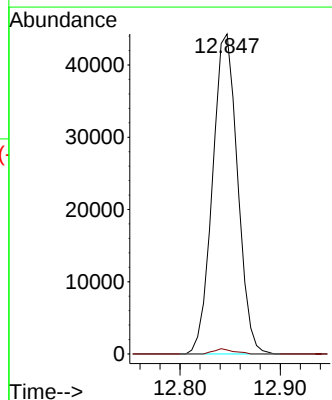
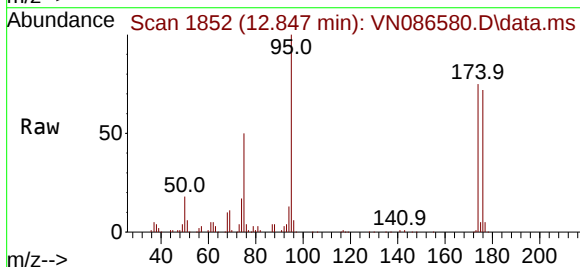
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#05

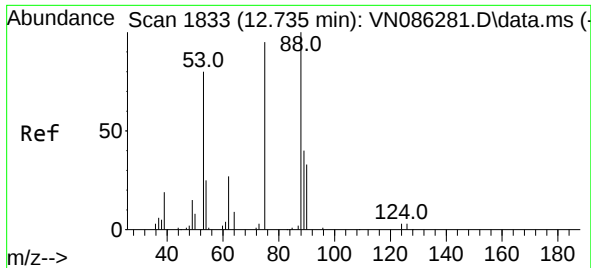
Tgt Ion: 43	Resp: 2281
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 3.2	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.856 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086580.D
Acq: 12 May 2025 14:52

Tgt Ion: 75	Resp:	76790	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.293 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086580.D
 Acq: 12 May 2025 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#05

Tgt Ion: 75 Resp: 76790
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

