

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086577.D
 Acq On : 12 May 2025 13:40
 Operator : JC\MD
 Sample : PB167932ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#02

Quant Time: May 13 01:51:25 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)

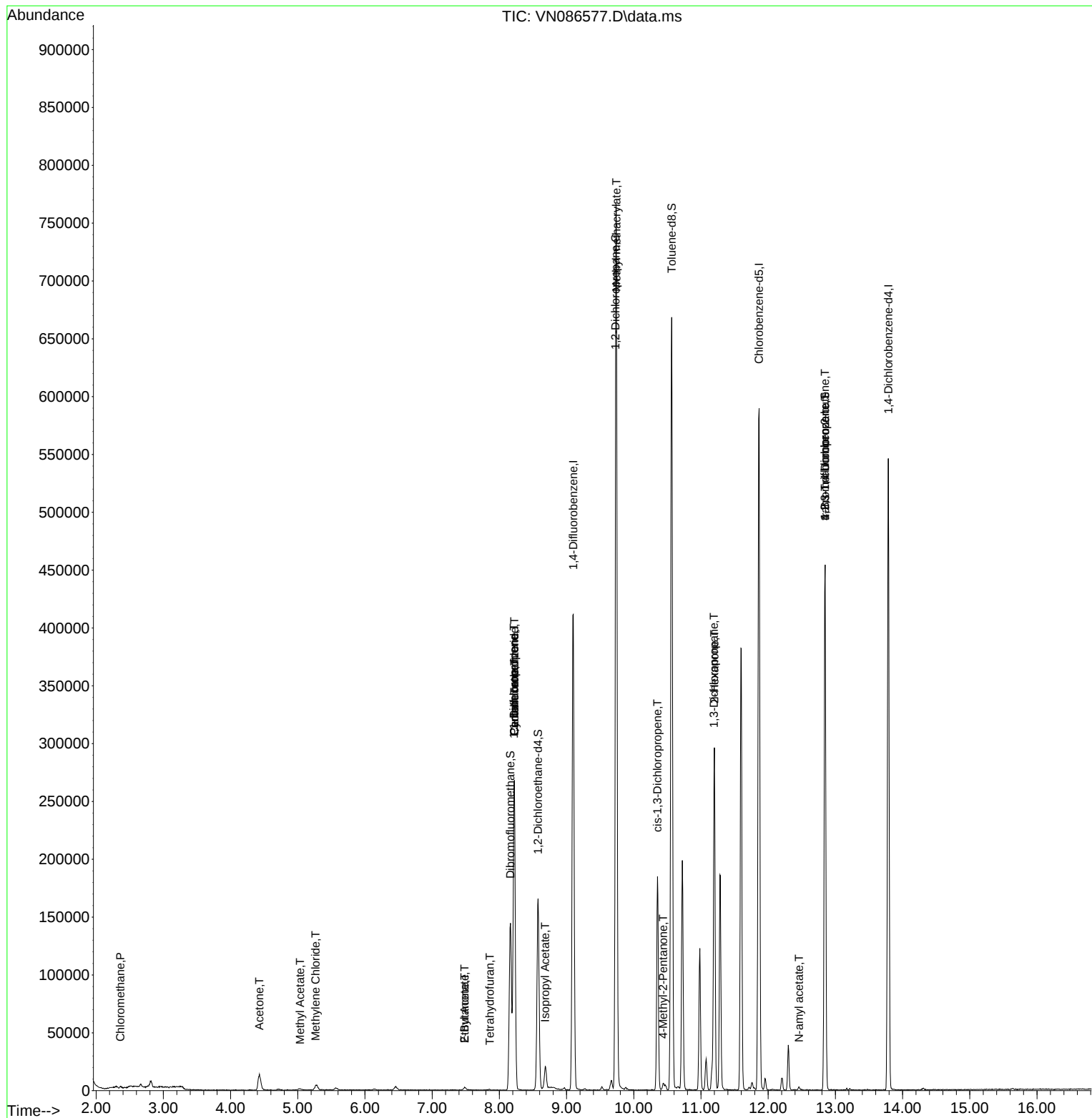
Internal Standards						
1) Pentafluorobenzene	8.224	168	201590	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	372154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	358081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	148492	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	136824	46.806	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.620%
35) Dibromofluoromethane	8.165	113	109699	63.512	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	127.020%#
50) Toluene-d8	10.565	98	477593	51.738	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.480%
62) 4-Bromofluorobenzene	12.847	95	165594	49.182	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.360%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1059	0.305	ug/l	92
16) Acetone	4.430	43	25909	20.394	ug/l	98
18) Methyl Acetate	5.036	43	2507	0.714	ug/l #	83
20) Methylene Chloride	5.265	84	1679	0.621	ug/l	91
25) 2-Butanone	7.482	43	4279	2.352	ug/l #	88
29) Tetrahydrofuran	7.859	42	427	0.351	ug/l #	53
31) Cyclohexane	8.224	56	4190	0.884	ug/l #	10
36) 1,1-Dichloropropene	8.218	75	16219	4.701	ug/l #	49
37) Ethyl Acetate	7.482	43	4279	1.178	ug/l #	68
38) Carbon Tetrachloride	8.224	117	19820	6.033	ug/l #	16
43) Isopropyl Acetate	8.682	43	24878	1.994	ug/l #	90
45) 1,2-Dichloropropane	9.729	63	854	0.316	ug/l #	43
48) Methyl methacrylate	9.741	41	69556	21.808	ug/l #	42
51) 4-Methyl-2-Pentanone	10.435	43	4098	1.102	ug/l	97
54) cis-1,3-Dichloropropene	10.353	75	34662	7.593	ug/l #	57
57) 1,3-Dichloropropane	11.194	76	3076	0.699	ug/l #	43
59) 2-Hexanone	11.200	43	57231	20.746	ug/l #	42
74) N-amyl acetate	12.459	43	2505	0.414	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	83839	23.925	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83839	57.460	ug/l #	10

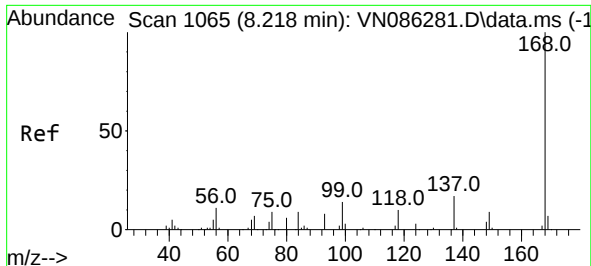
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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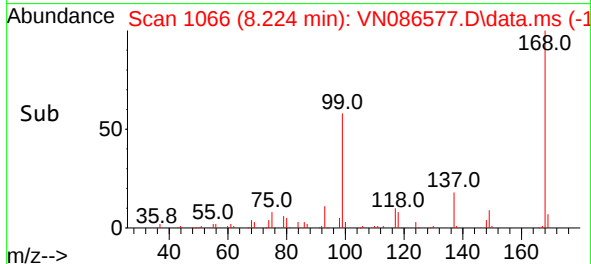
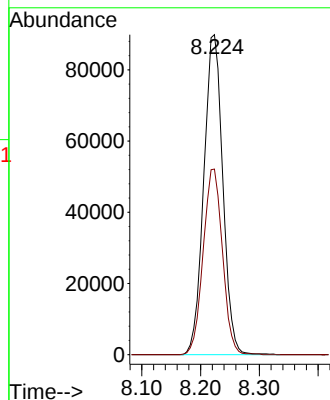
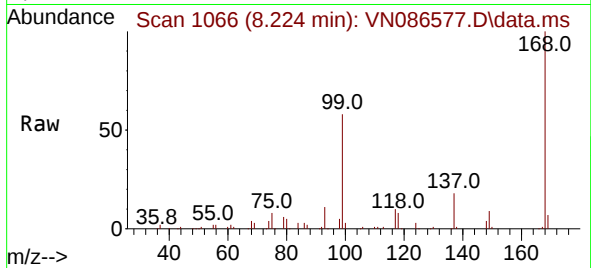




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

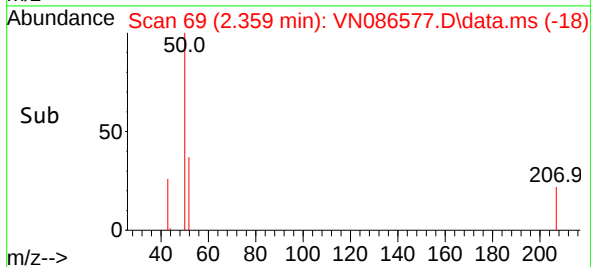
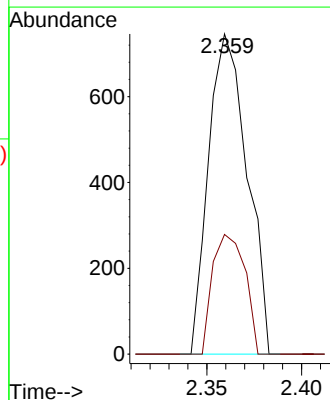
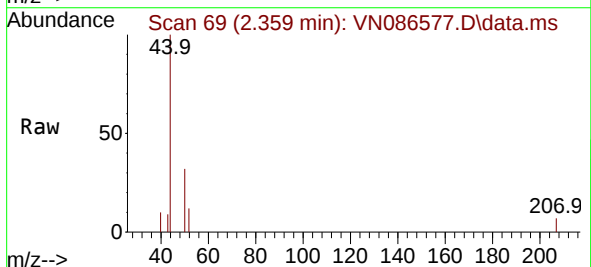
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

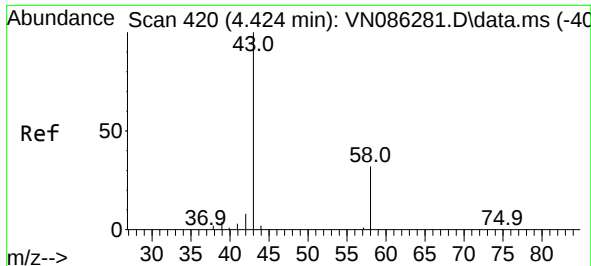
Tgt Ion:168 Resp: 201590
Ion Ratio Lower Upper
168 100
99 58.0 52.5 78.7



#3
Chloromethane
Concen: 0.305 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 50 Resp: 1059
Ion Ratio Lower Upper
50 100
52 37.4 26.5 39.7

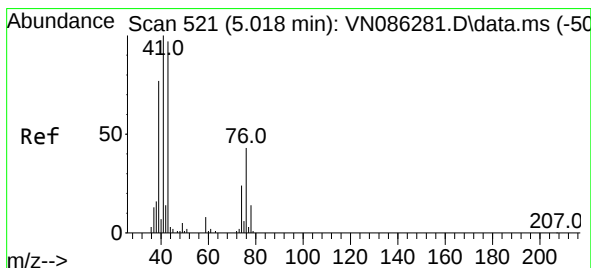
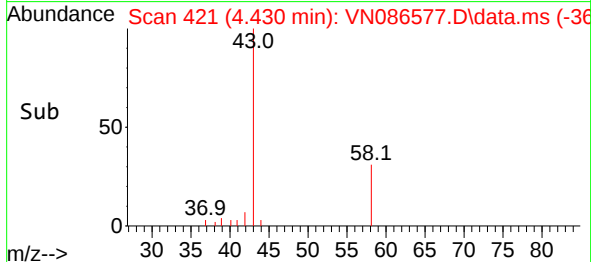
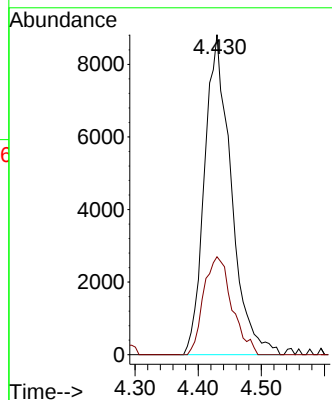
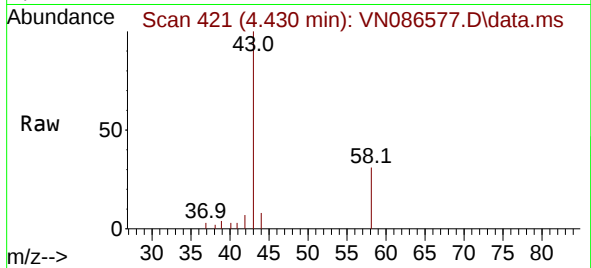




#16
Acetone
Concen: 20.394 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

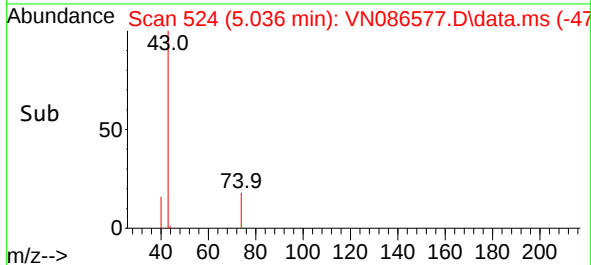
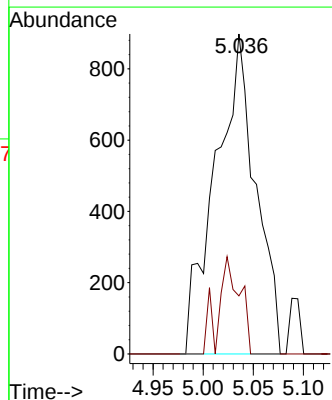
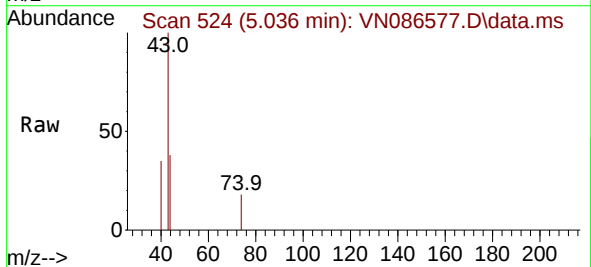
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

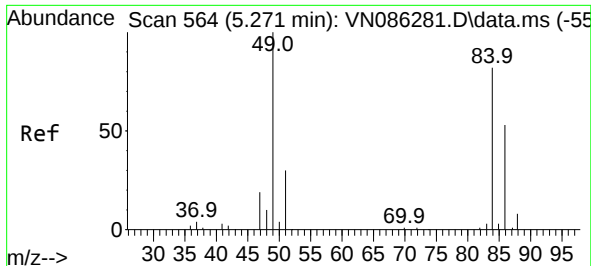
Tgt Ion: 43 Resp: 25909
Ion Ratio Lower Upper
43 100
58 30.6 25.3 37.9



#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

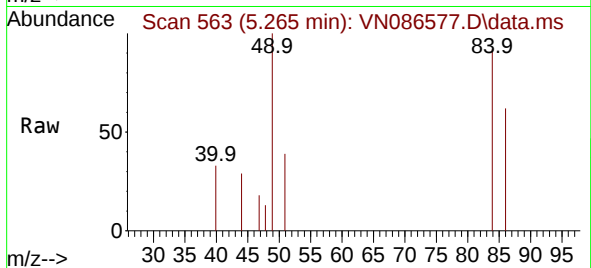
Tgt Ion: 43 Resp: 2507
Ion Ratio Lower Upper
43 100
74 16.4 19.8 29.6#



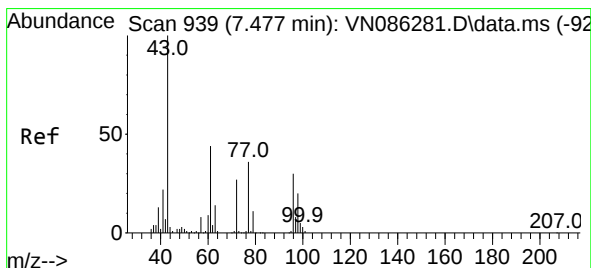
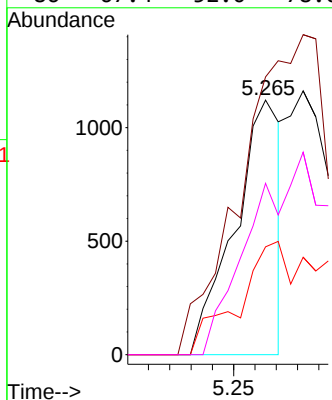


#20
Methylene Chloride
Concen: 0.621 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

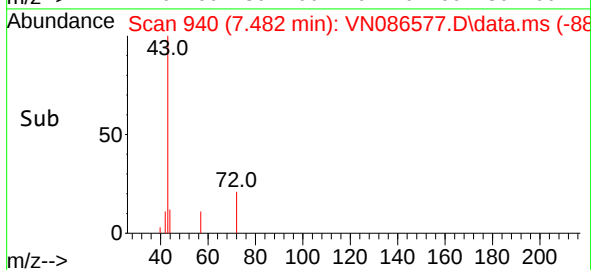
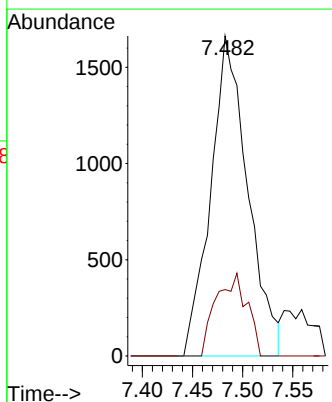
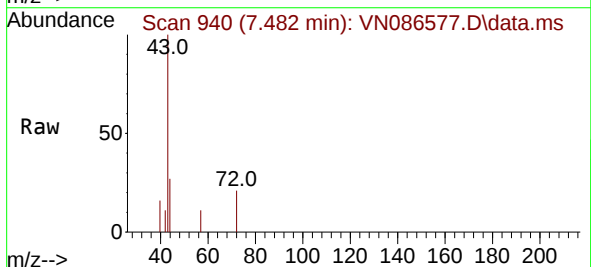


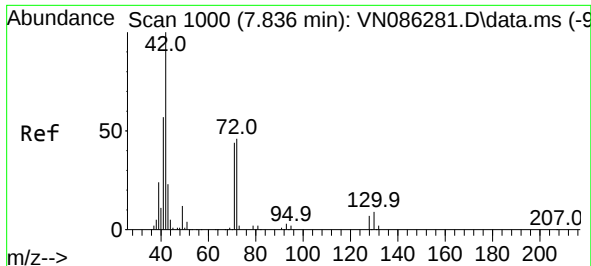
Tgt Ion:	84	Resp:	1679
Ion	Ratio	Lower	Upper
84	100		
49	109.1	98.2	147.2
51	42.4	29.8	44.6
86	67.4	52.0	78.0



#25
2-Butanone
Concen: 2.352 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion:	43	Resp:	4279
Ion	Ratio	Lower	Upper
43	100		
72	20.7	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.351 ug/l

RT: 7.859 min Scan# 1066

Delta R.T. 0.023 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#02

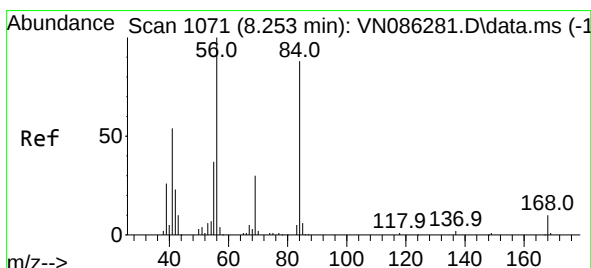
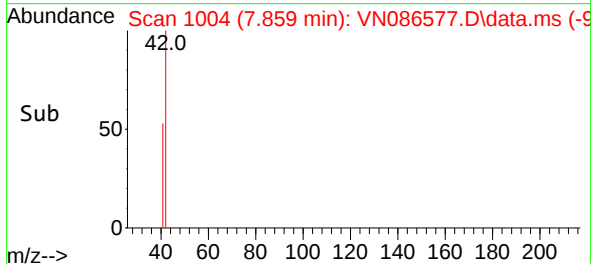
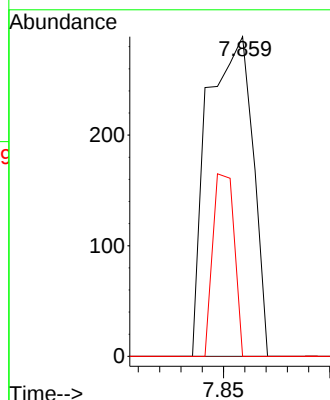
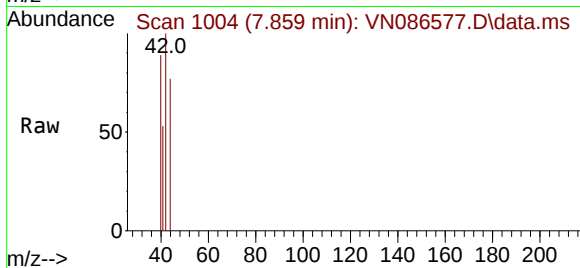
Tgt Ion: 42 Resp: 427

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 26.9 34.0 51.0#



#31

Cyclohexane

Concen: 0.884 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

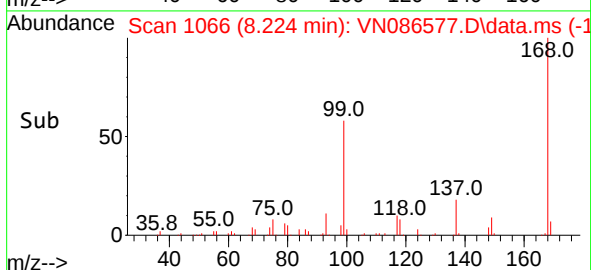
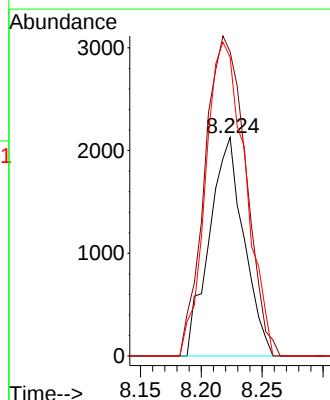
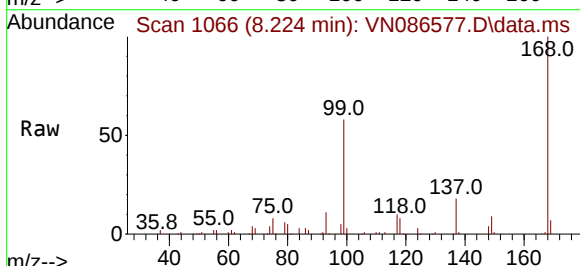
Tgt Ion: 56 Resp: 4190

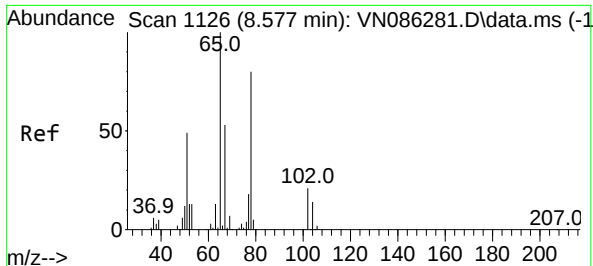
Ion Ratio Lower Upper

56 100

69 139.2 24.2 36.2#

84 136.7 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 46.806 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

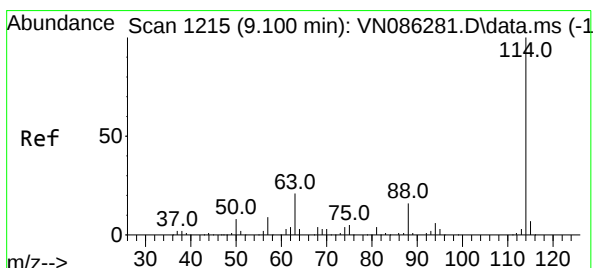
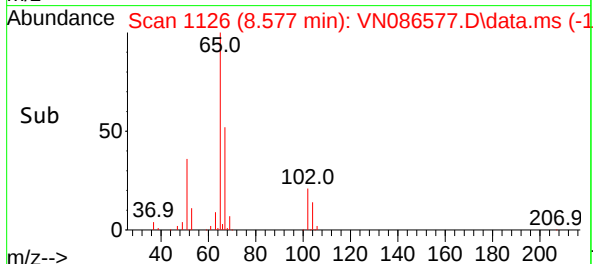
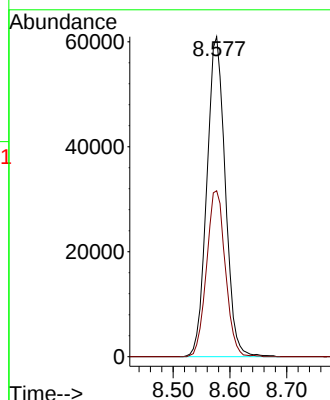
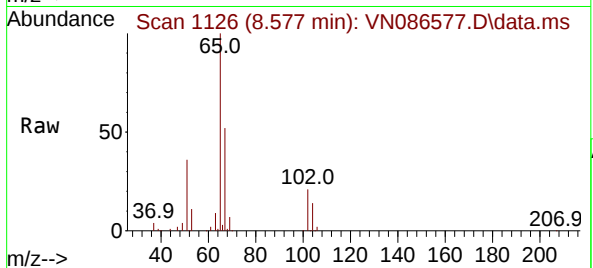
PB167932ZHE#02

Tgt Ion: 65 Resp: 136824

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

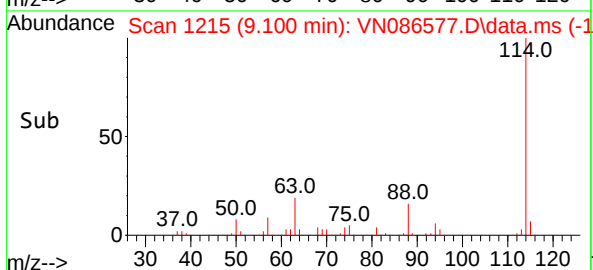
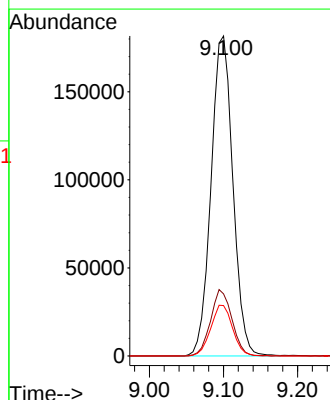
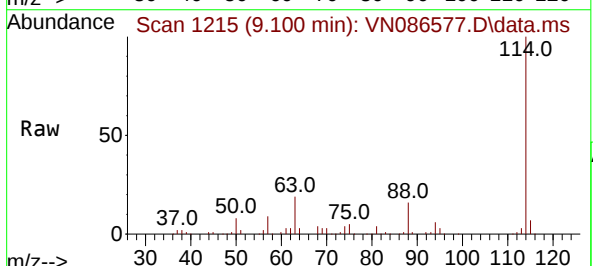
Tgt Ion: 114 Resp: 372154

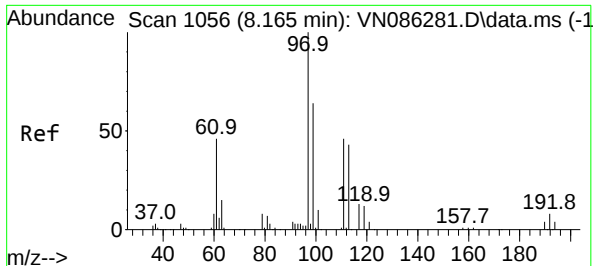
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.512 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086577.D

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PB167932ZHE#02

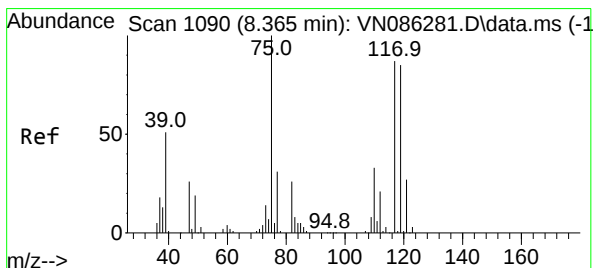
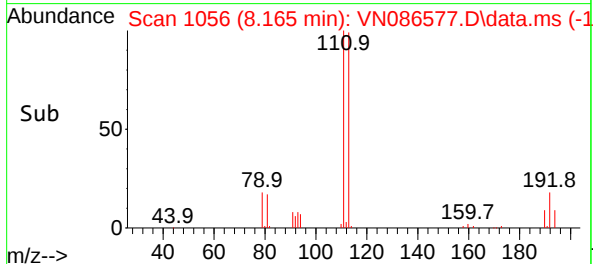
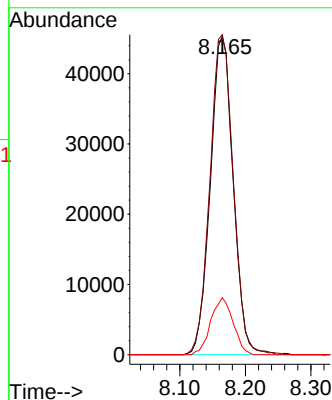
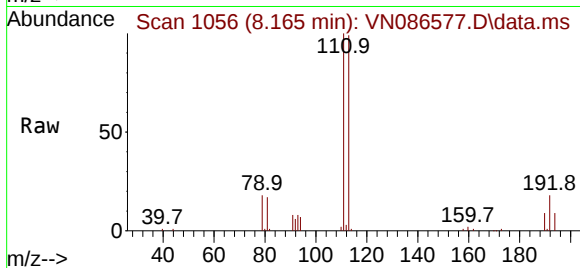
Tgt Ion:113 Resp: 109699

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

192 17.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.701 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

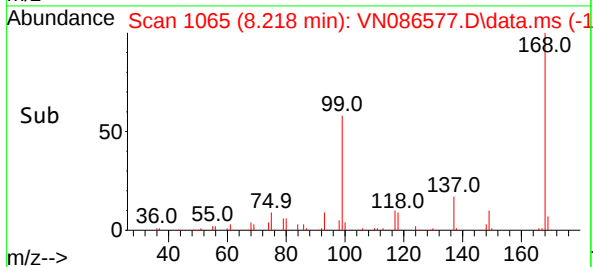
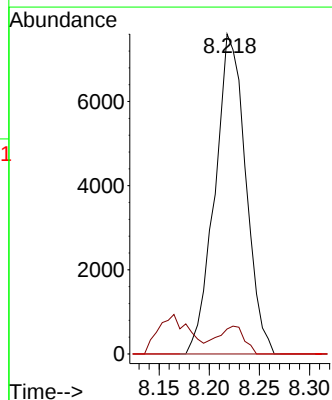
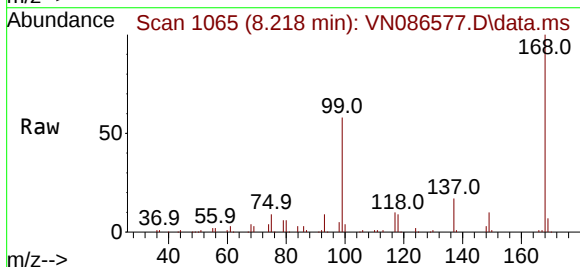
Tgt Ion: 75 Resp: 16219

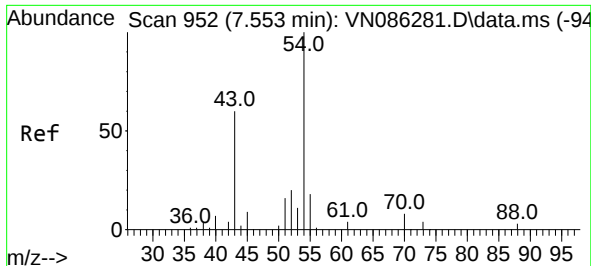
Ion Ratio Lower Upper

75 100

110 7.7 16.8 50.4#

77 0.0 24.9 37.3#

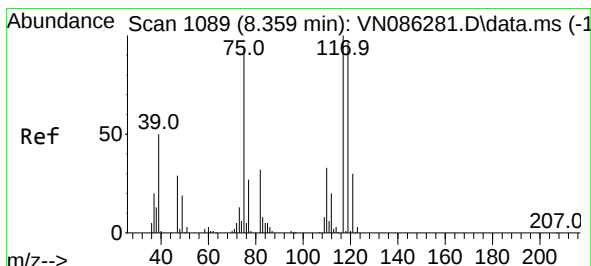
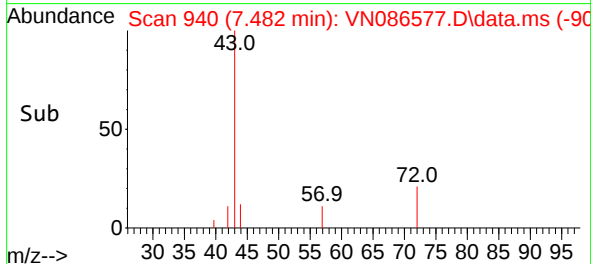
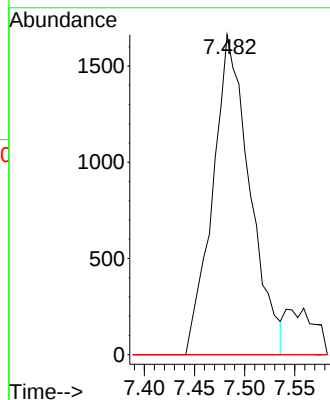
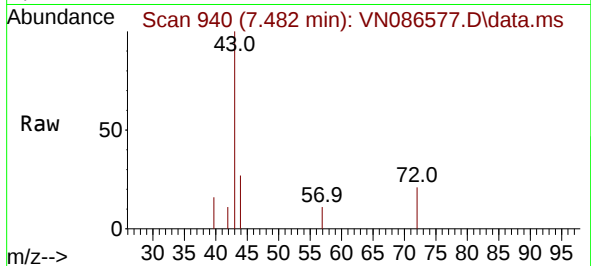




#37
Ethyl Acetate
Concen: 1.178 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.071 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

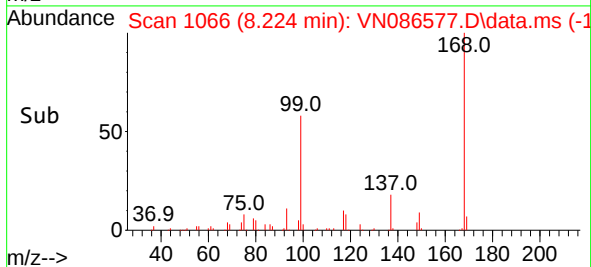
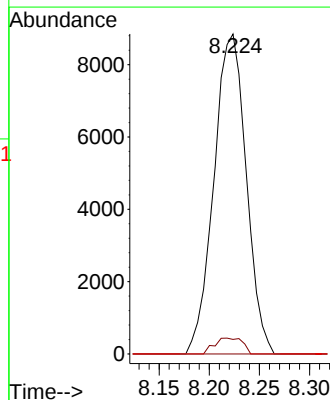
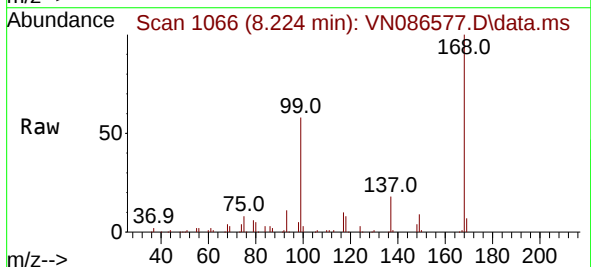
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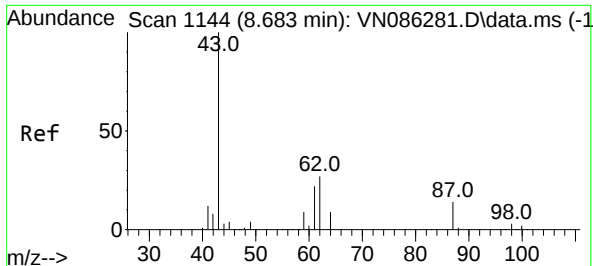
Tgt Ion: 43 Resp: 4279
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



#38
Carbon Tetrachloride
Concen: 6.033 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 117 Resp: 19820
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 23.8 35.8#

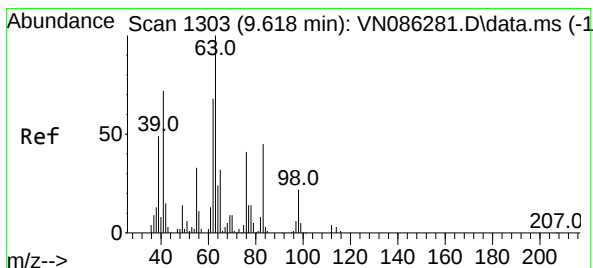
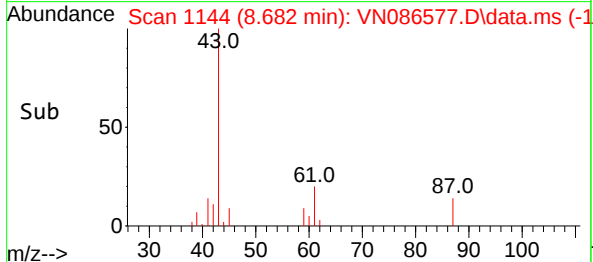
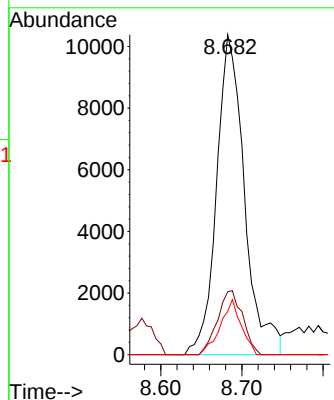
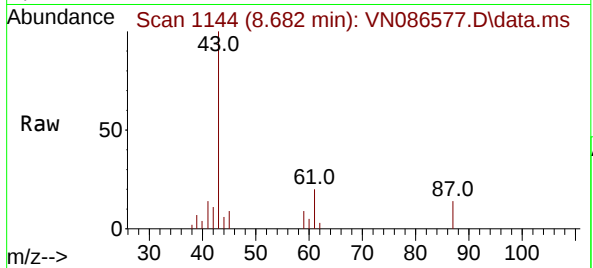




#43
Isopropyl Acetate
Concen: 1.994 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

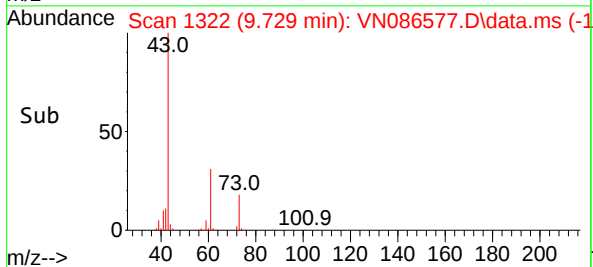
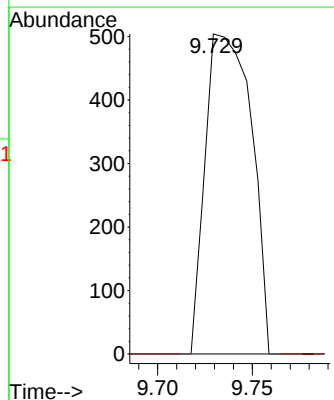
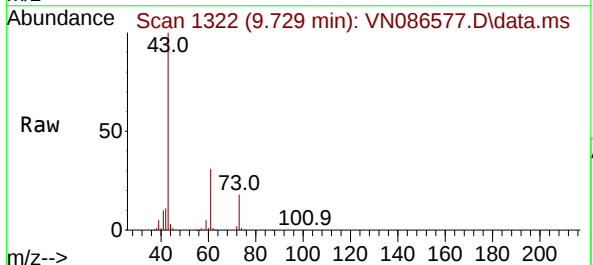
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

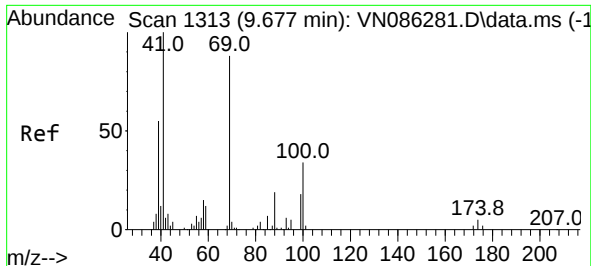
Tgt Ion: 43 Resp: 24878
Ion Ratio Lower Upper
43 100
61 18.0 20.5 30.7#
87 12.9 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.316 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 63 Resp: 854
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

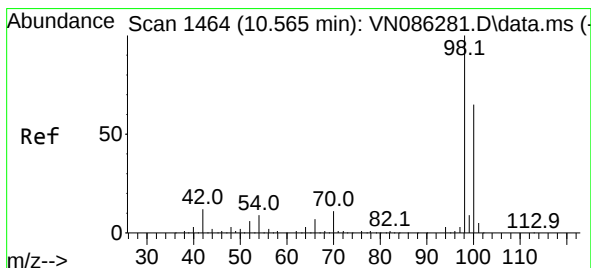
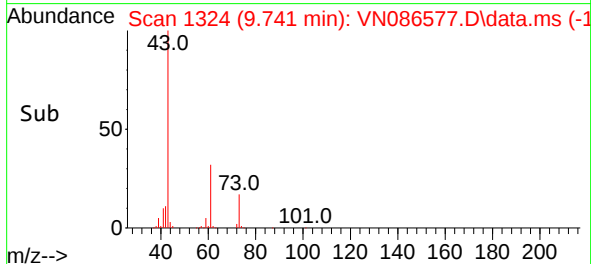
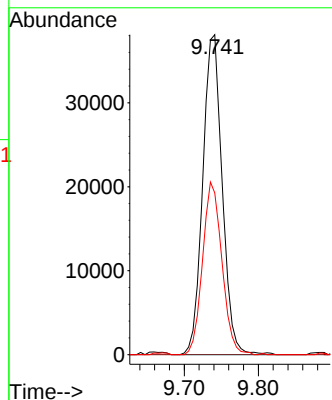
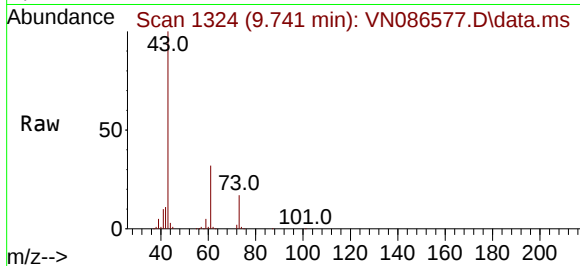




#48
Methyl methacrylate
Concen: 21.808 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

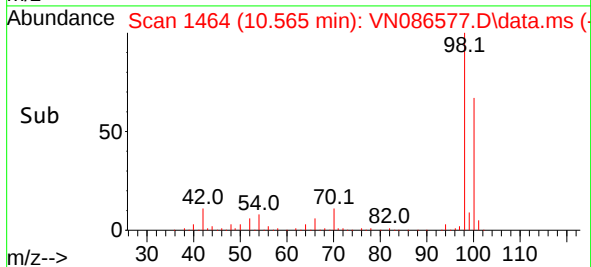
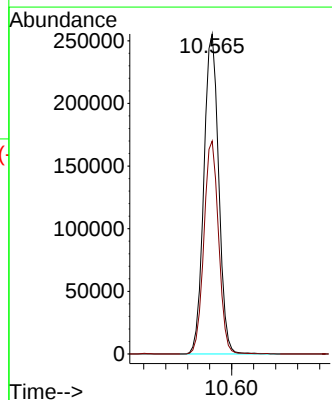
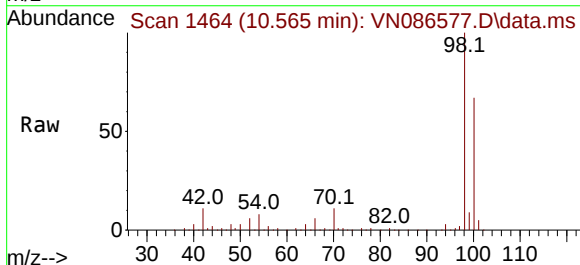
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

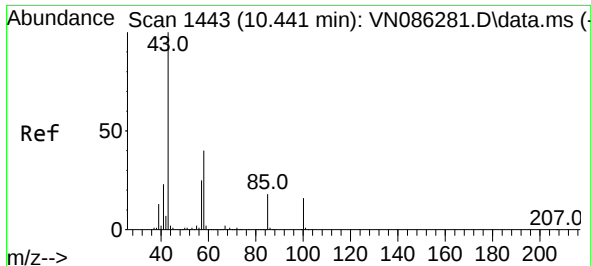
Tgt Ion: 41 Resp: 69556
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.6 45.2 67.8



#50
Toluene-d8
Concen: 51.738 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 98 Resp: 477593
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7

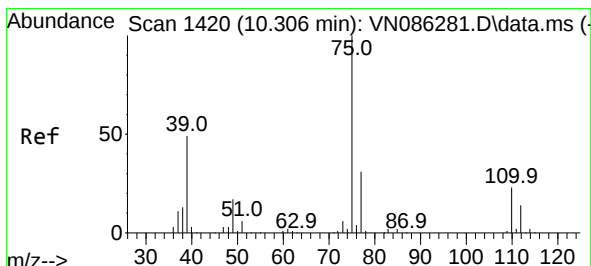
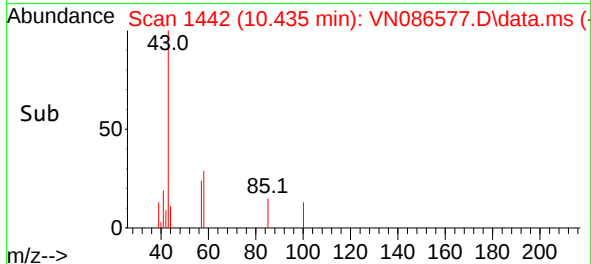
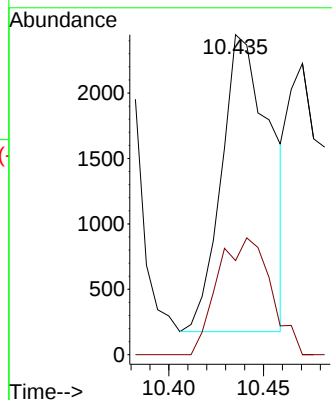
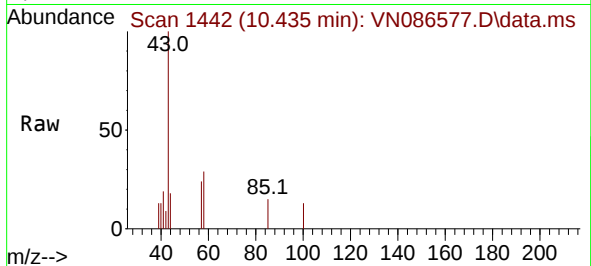




#51
4-Methyl-2-Pentanone
Concen: 1.102 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

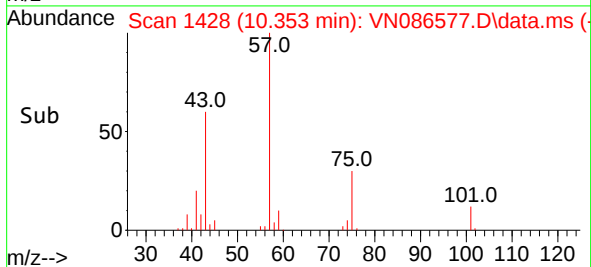
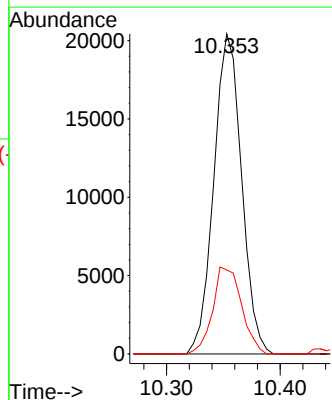
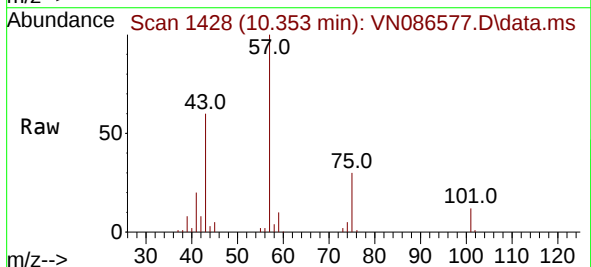
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

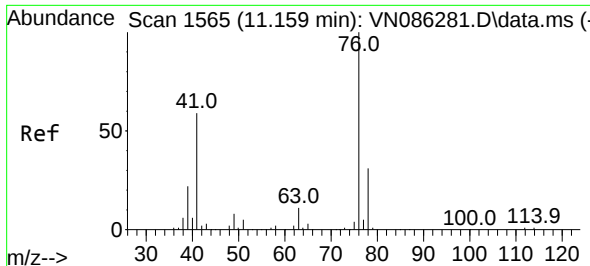
Tgt Ion: 43 Resp: 4098
Ion Ratio Lower Upper
43 100
58 42.5 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 7.593 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 75 Resp: 34662
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 26.2 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.699 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086577.D

Acq: 12 May 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

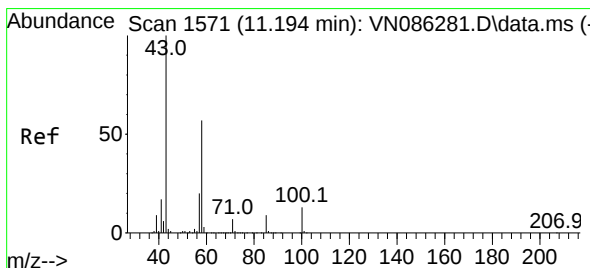
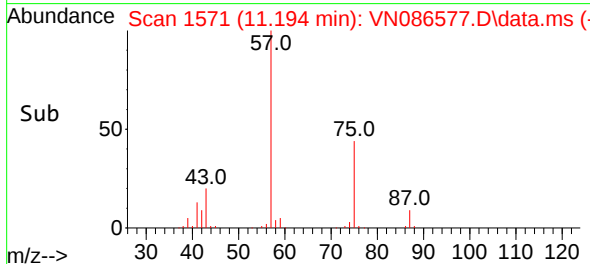
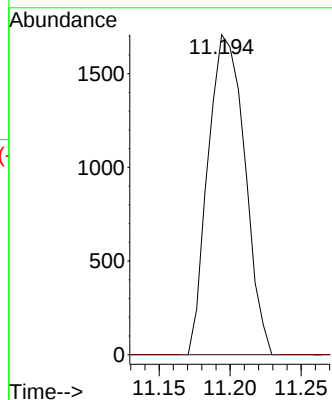
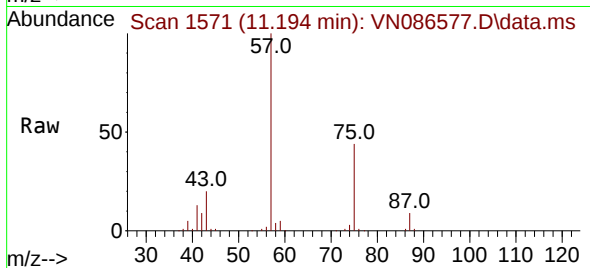
PB167932ZHE#02

Tgt Ion: 76 Resp: 3076

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 20.746 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086577.D

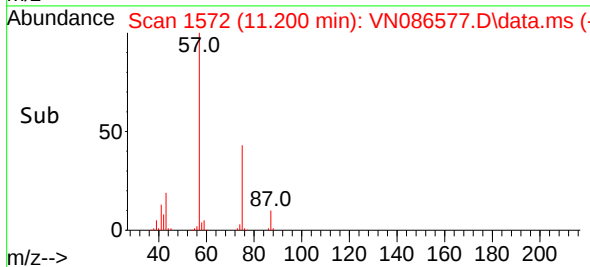
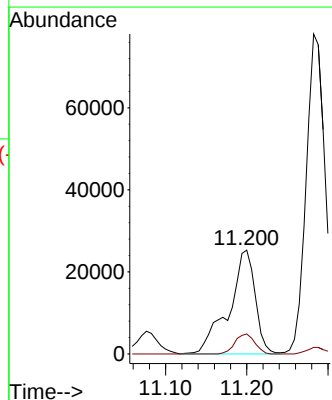
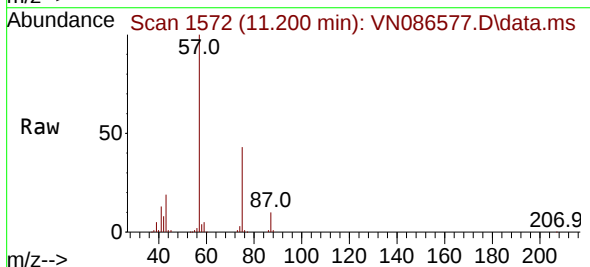
Acq: 12 May 2025 13:40

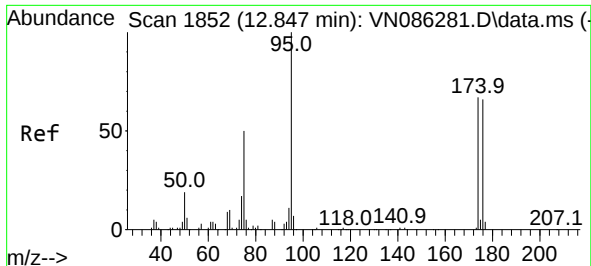
Tgt Ion: 43 Resp: 57231

Ion Ratio Lower Upper

43 100

58 14.4 28.3 85.0#

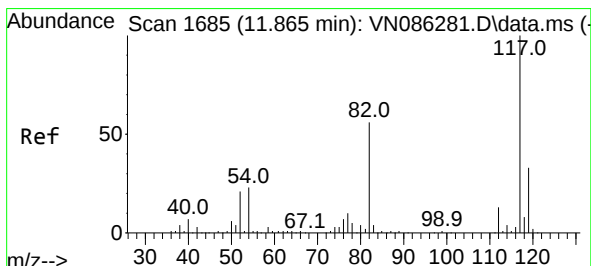
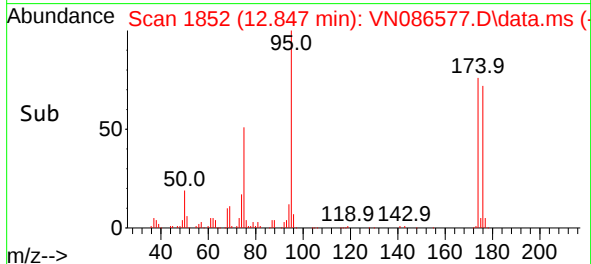
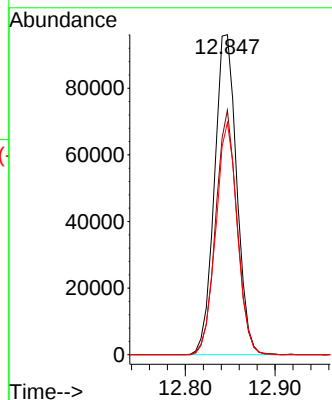
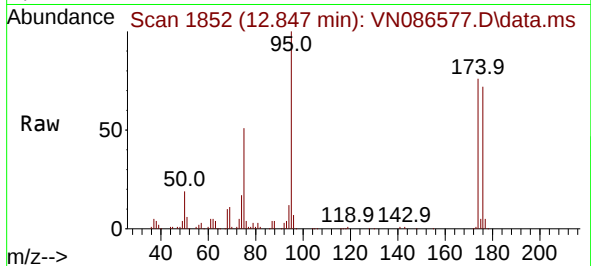




#62
4-Bromofluorobenzene
Concen: 49.182 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

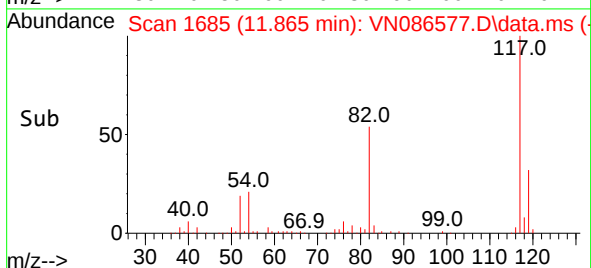
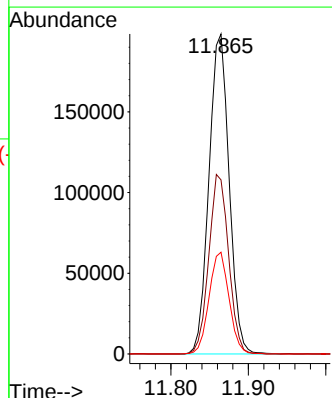
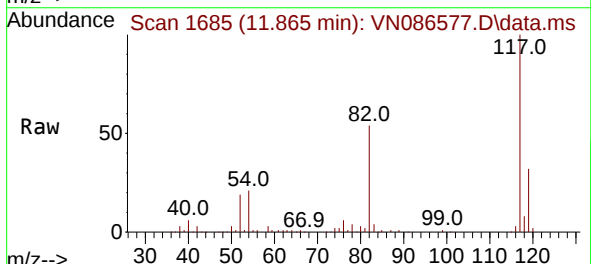
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

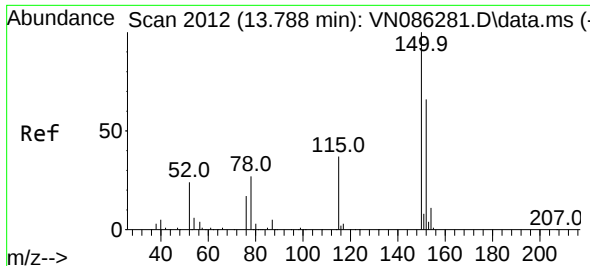
Tgt Ion: 95 Resp: 165594
Ion Ratio Lower Upper
95 100
174 73.1 0.0 133.4
176 70.3 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 117 Resp: 358081
Ion Ratio Lower Upper
117 100
82 54.4 44.7 67.1
119 31.8 26.4 39.6

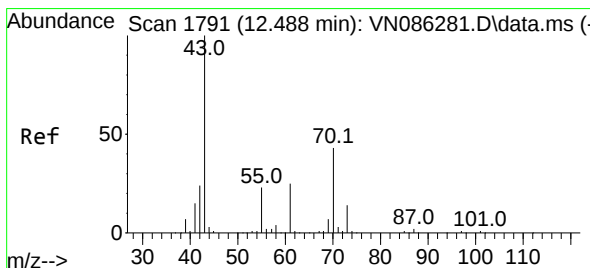
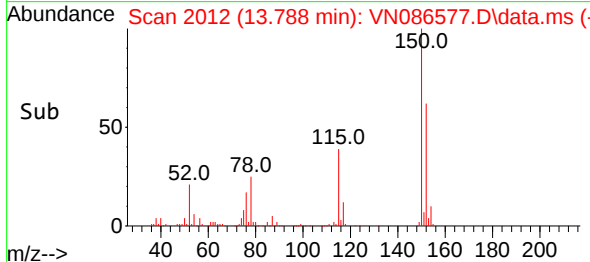
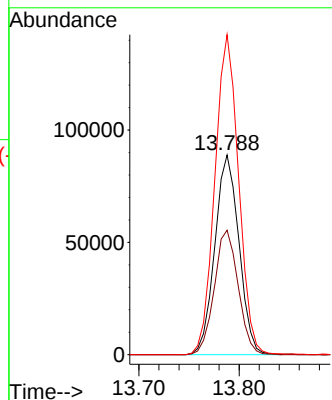
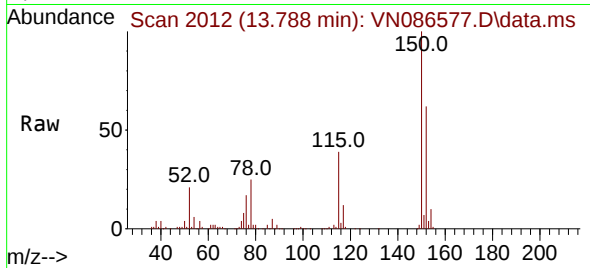




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086577.D
 Acq: 12 May 2025 13:40

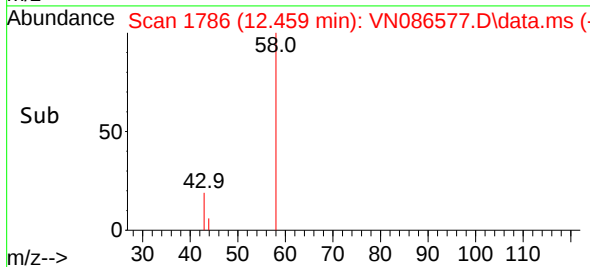
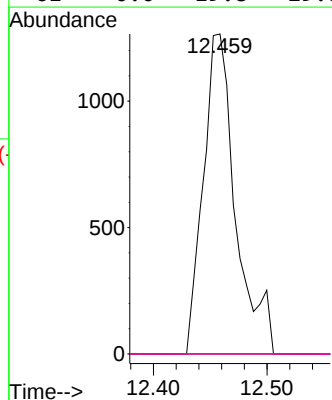
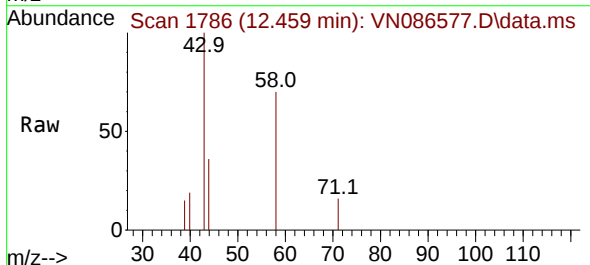
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#02

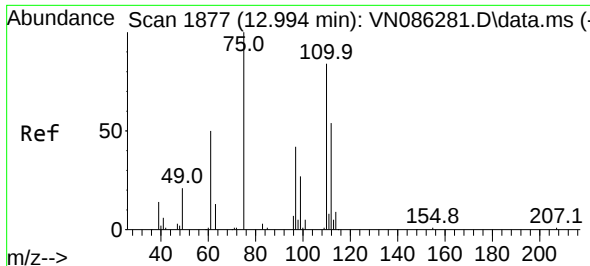
Tgt Ion:152 Resp: 148492
 Ion Ratio Lower Upper
 152 100
 115 61.7 31.9 95.9
 150 157.9 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.414 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.030 min
 Lab File: VN086577.D
 Acq: 12 May 2025 13:40

Tgt Ion: 43 Resp: 2505
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 0.0 19.0 28.4#
 61 0.0 19.8 29.8#

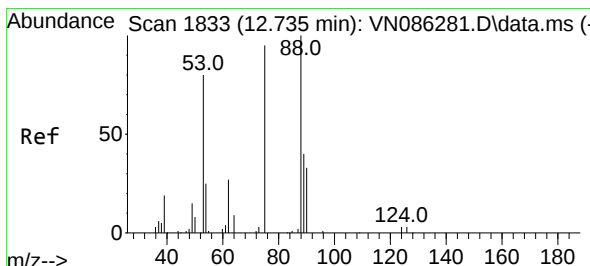
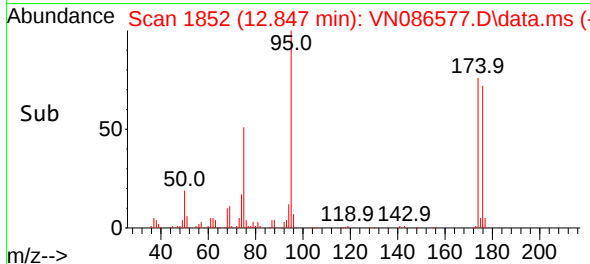
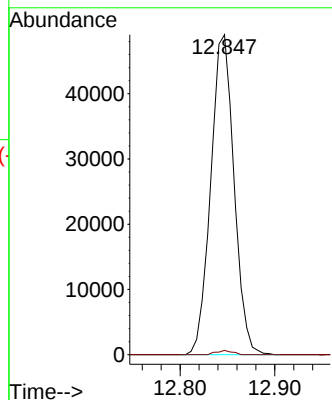
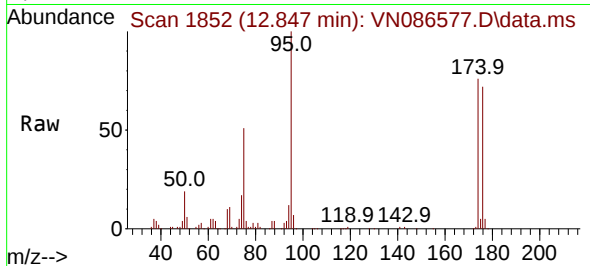




#76
1,2,3-Trichloropropane
Concen: 23.925 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#02

Tgt Ion: 75 Resp: 83839
Ion Ratio Lower Upper
75 100
77 0.9 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.460 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086577.D
Acq: 12 May 2025 13:40

Tgt Ion: 75 Resp: 83839
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

