

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086587.D
 Acq On : 12 May 2025 17:42
 Operator : JC\MD
 Sample : PB167932ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#12

Quant Time: May 13 01:56:30 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

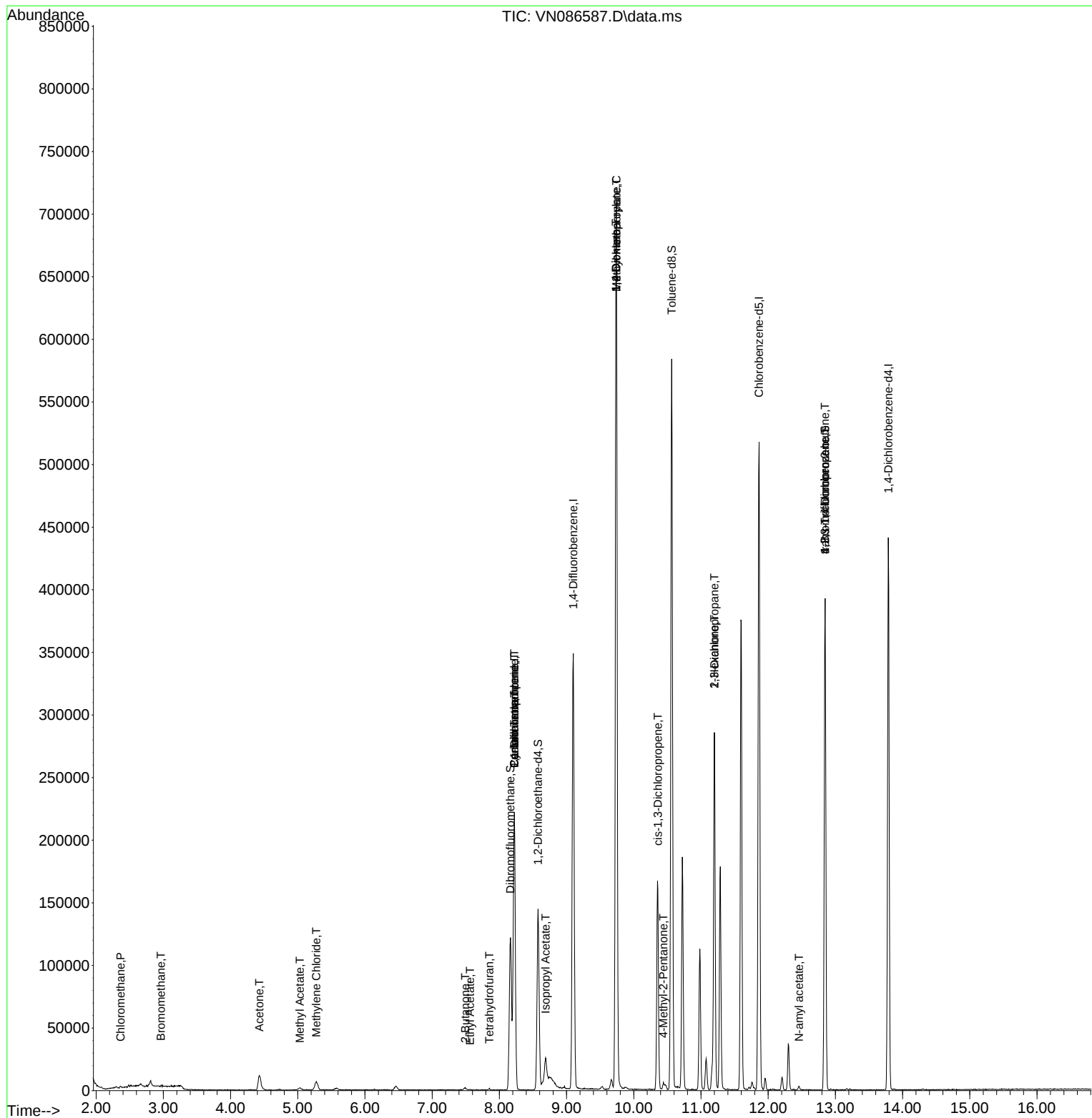
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164520	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	314436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115948	48.602	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.200%
35) Dibromofluoromethane	8.165	113	91257	62.533	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	125.060%#
50) Toluene-d8	10.565	98	405865	52.038	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.080%
62) 4-Bromofluorobenzene	12.847	95	140433	49.365	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.740%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	814	0.287	ug/l	92
5) Bromomethane	2.965	94	319	0.262	ug/l #	77
16) Acetone	4.430	43	23529	23.352	ug/l	99
18) Methyl Acetate	5.030	43	3675	1.283	ug/l	90
20) Methylene Chloride	5.277	84	5565	2.523	ug/l	89
25) 2-Butanone	7.494	43	3062	2.062	ug/l	93
29) Tetrahydrofuran	7.853	42	621	0.625	ug/l #	66
31) Cyclohexane	8.224	56	3353	0.867	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13315	4.568	ug/l #	51
37) Ethyl Acetate	7.565	43	723	0.236	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16812	6.057	ug/l #	16
43) Isopropyl Acetate	8.688	43	37036	4.949	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	843	0.369	ug/l #	43
48) Methyl methacrylate	9.741	41	64682	24.002	ug/l #	43
49) 1,4-Dioxane	9.735	88	55	1.200	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	3305	1.052	ug/l	100
54) cis-1,3-Dichloropropene	10.359	75	31763	8.235	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3042	0.818	ug/l #	43
59) 2-Hexanone	11.200	43	53243	22.843	ug/l #	44
74) N-amyl acetate	12.459	43	2447	0.501	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	71821	25.390	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71821	60.977	ug/l #	10

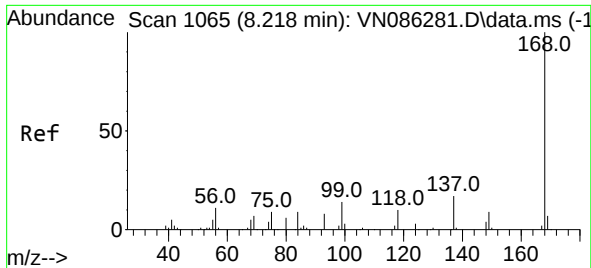
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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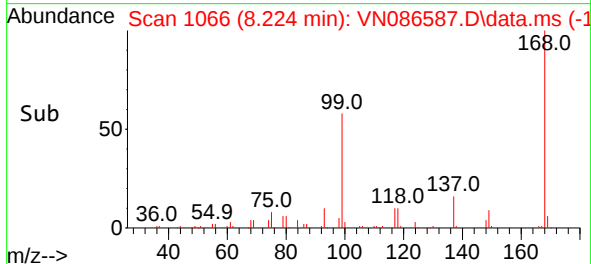
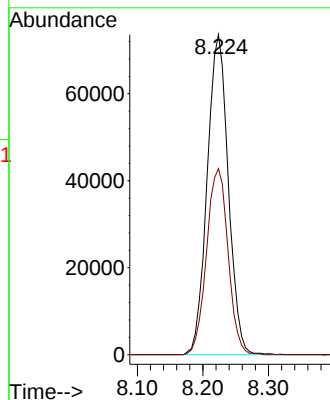
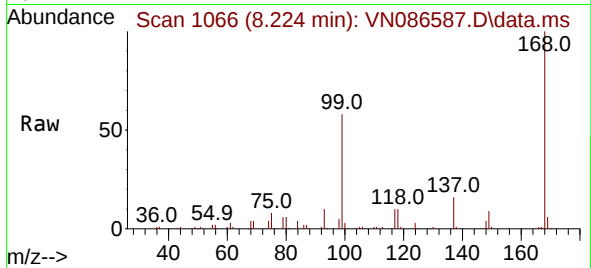




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

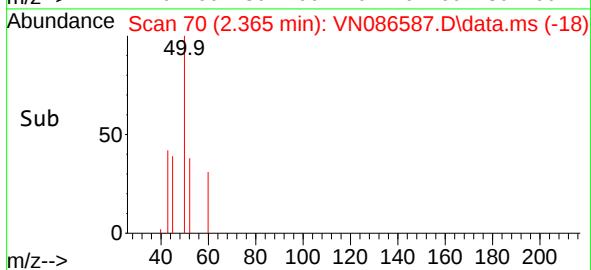
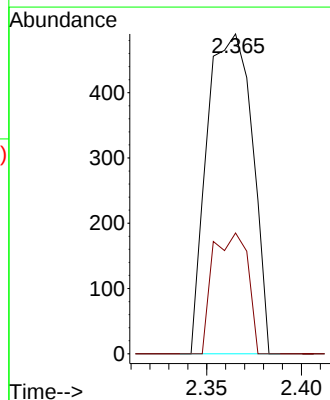
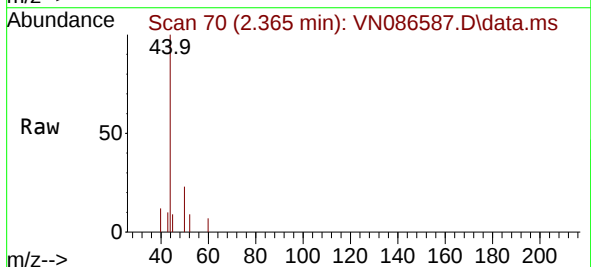
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

Tgt Ion:168 Resp: 164520
Ion Ratio Lower Upper
168 100
99 58.1 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: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 50 Resp: 814
Ion Ratio Lower Upper
50 100
52 37.8 26.5 39.7

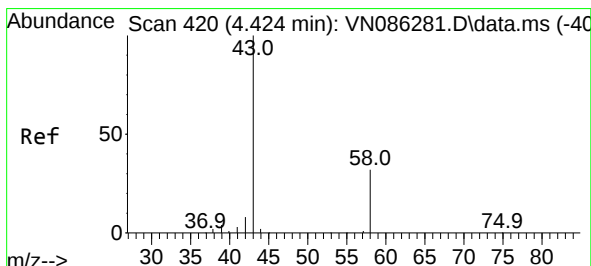
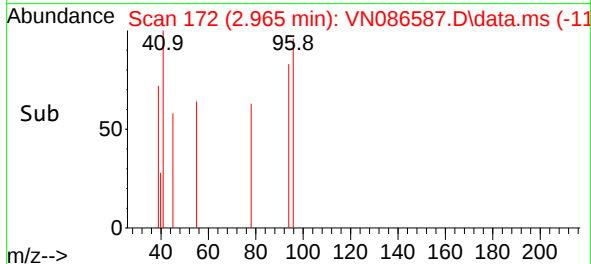
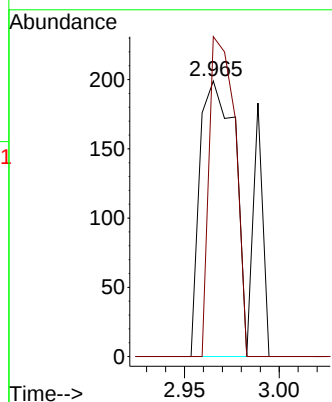
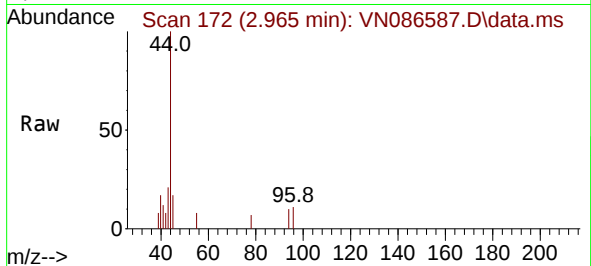




#5
Bromomethane
Concen: 0.262 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

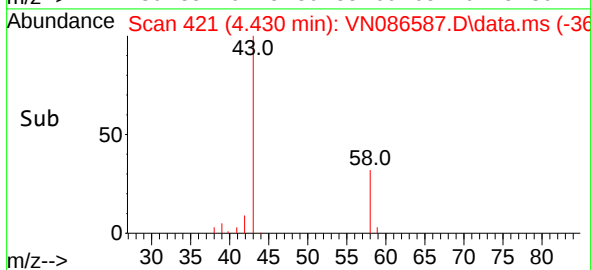
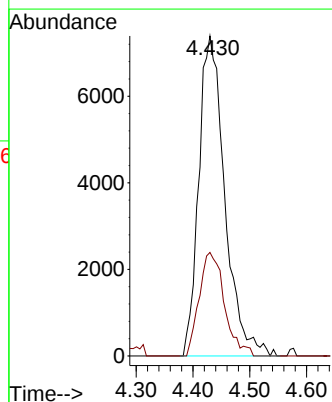
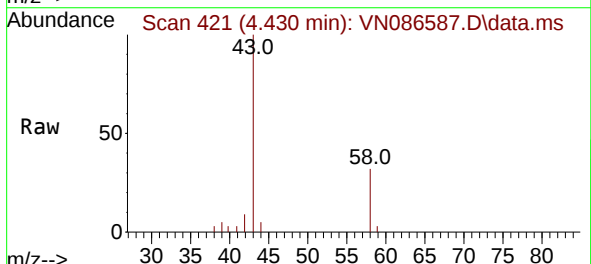
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

Tgt Ion: 94 Resp: 319
Ion Ratio Lower Upper
94 100
96 116.1 75.2 112.8#



#16
Acetone
Concen: 23.352 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 43 Resp: 23529
Ion Ratio Lower Upper
43 100
58 32.4 25.3 37.9

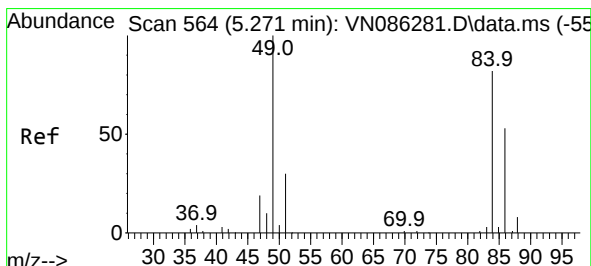
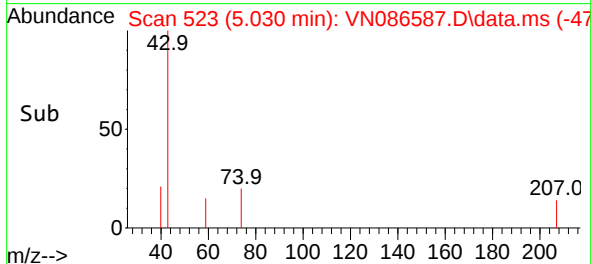
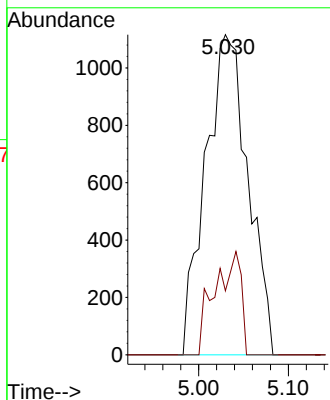
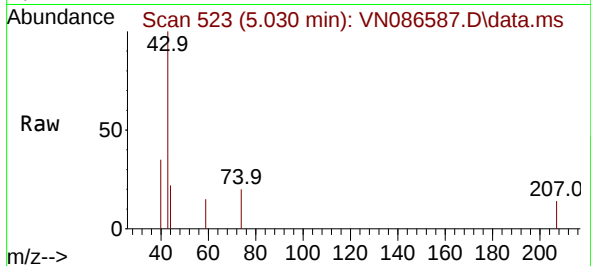




#18
Methyl Acetate
Concen: 1.283 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

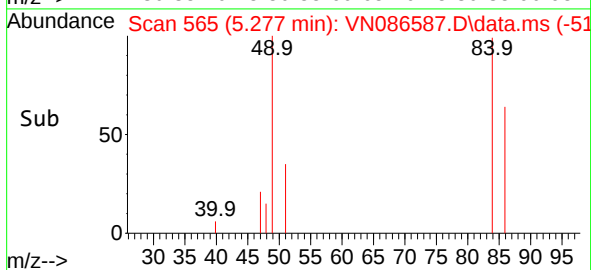
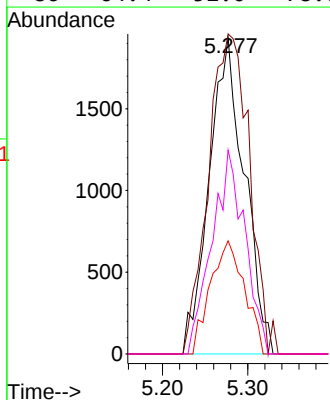
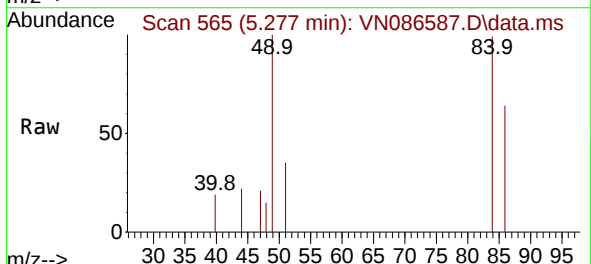
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

Tgt Ion: 43 Resp: 3675
Ion Ratio Lower Upper
43 100
74 19.9 19.8 29.6



#20
Methylene Chloride
Concen: 2.523 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 84 Resp: 5565
Ion Ratio Lower Upper
84 100
49 101.2 98.2 147.2
51 35.8 29.8 44.6
86 64.4 52.0 78.0

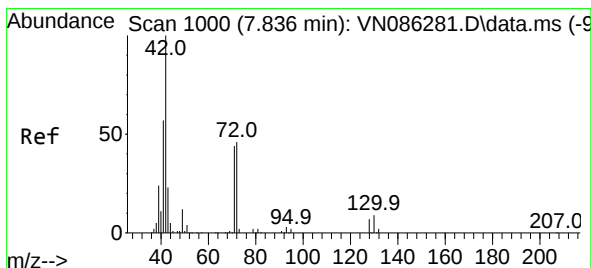
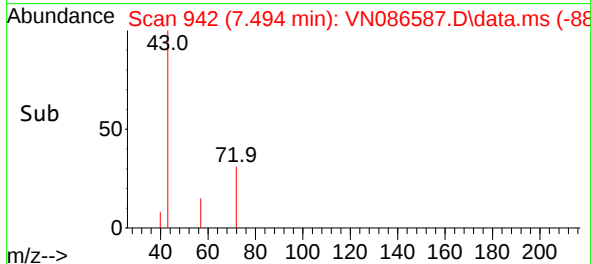
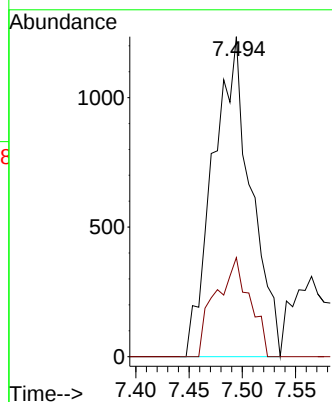
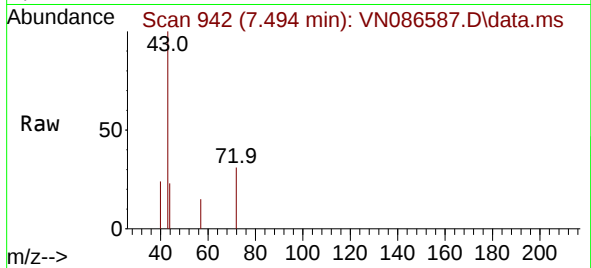




#25
2-Butanone
Concen: 2.062 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

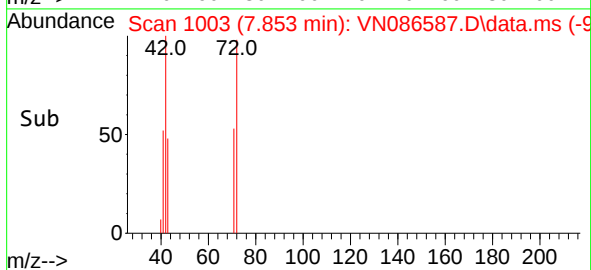
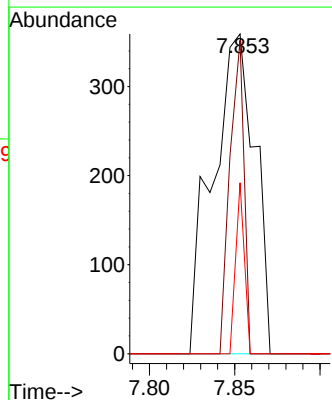
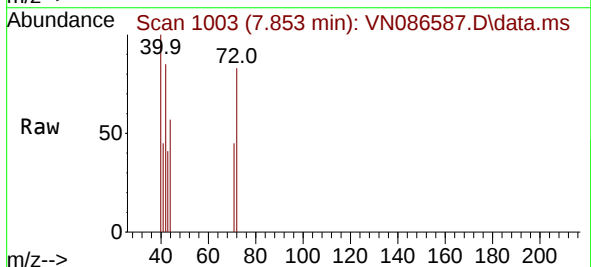
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

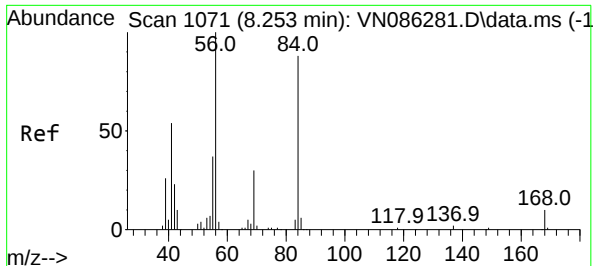
Tgt Ion: 43 Resp: 3062
Ion Ratio Lower Upper
43 100
72 30.9 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.625 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

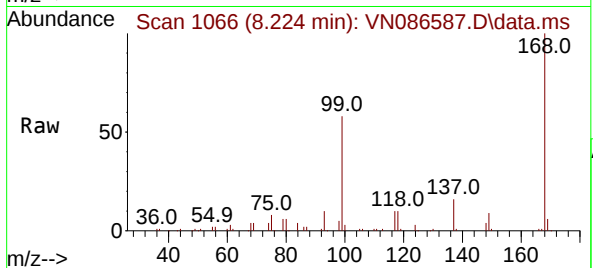
Tgt Ion: 42 Resp: 621
Ion Ratio Lower Upper
42 100
72 32.7 36.2 54.4#
71 11.0 34.0 51.0#



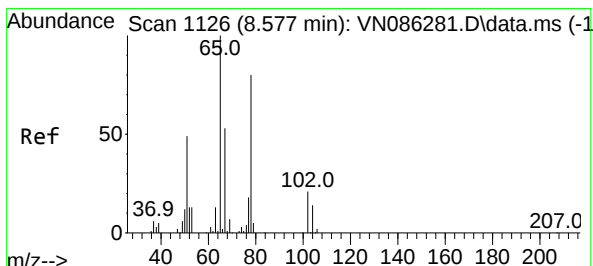
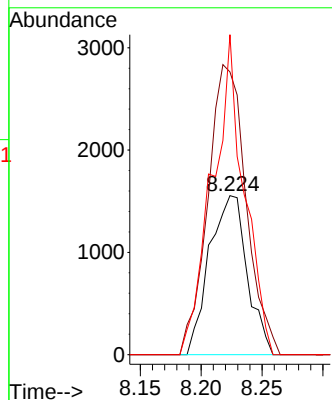
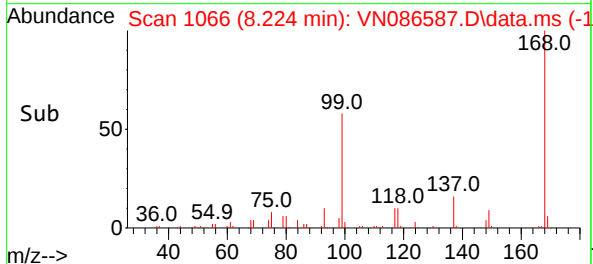


#31
Cyclohexane
Concen: 0.867 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Instrument :
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ClientSampleId :
PB167932ZHE#12

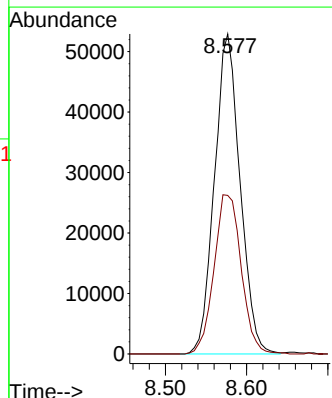
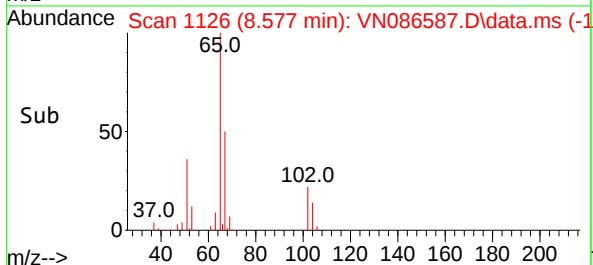
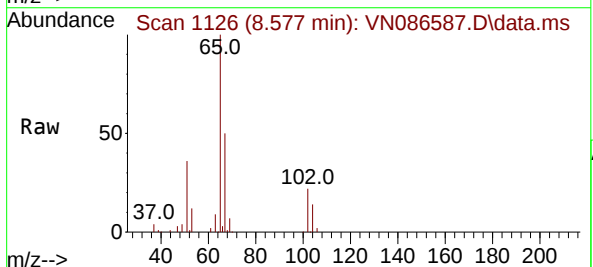


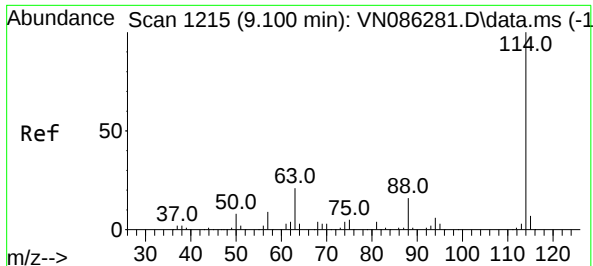
Tgt Ion: 56 Resp: 3353
Ion Ratio Lower Upper
56 100
69 177.7 24.2 36.2#
84 201.2 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.602 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 65 Resp: 115948
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.0

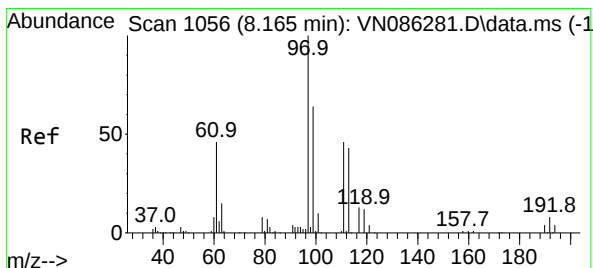
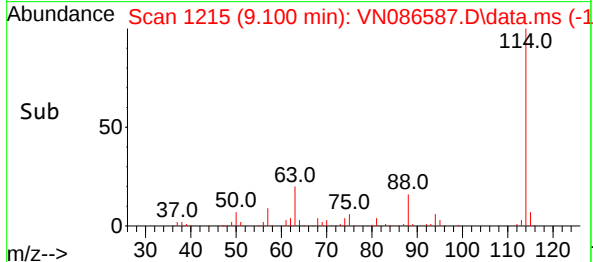
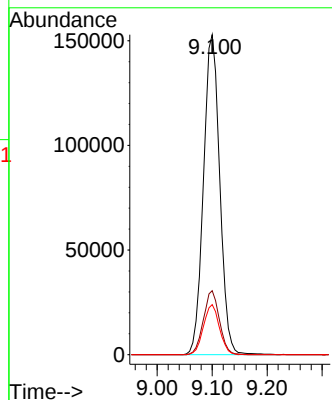
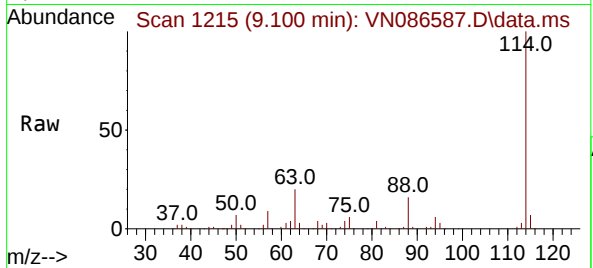




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

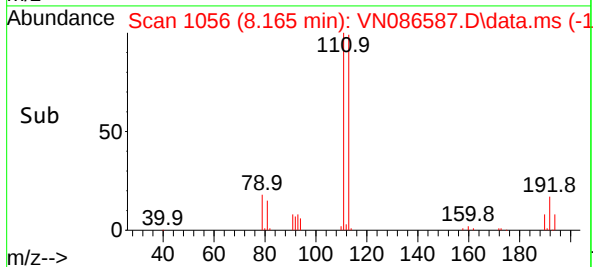
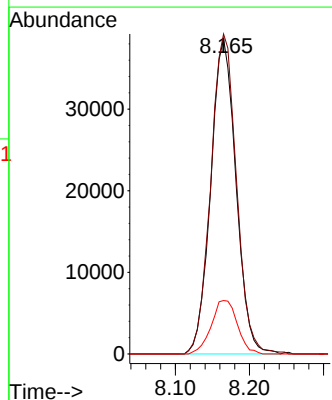
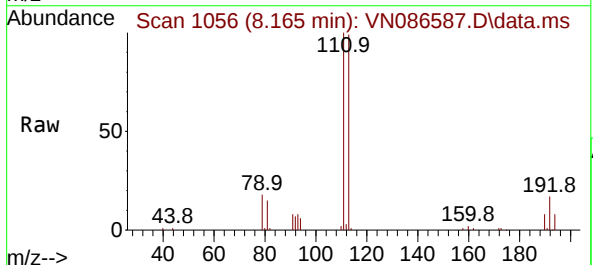
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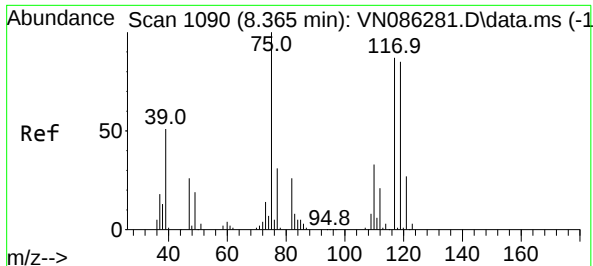
Tgt Ion:114 Resp: 314436
Ion Ratio Lower Upper
114 100
63 20.0 0.0 42.6
88 15.6 0.0 31.8



#35
Dibromofluoromethane
Concen: 62.533 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion:113 Resp: 91257
Ion Ratio Lower Upper
113 100
111 103.3 83.4 125.0
192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.568 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#12

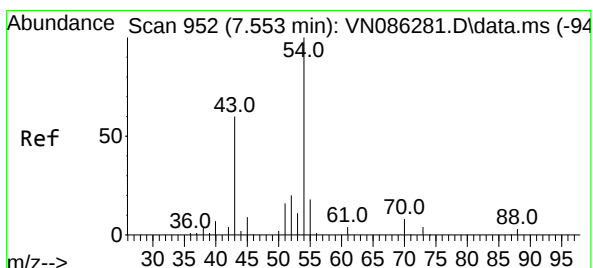
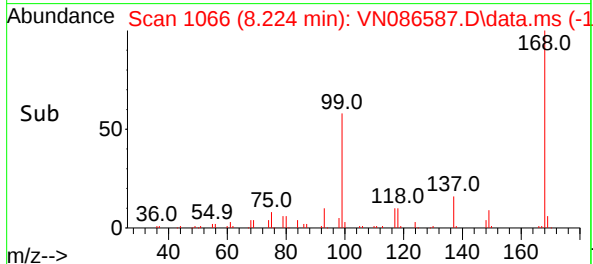
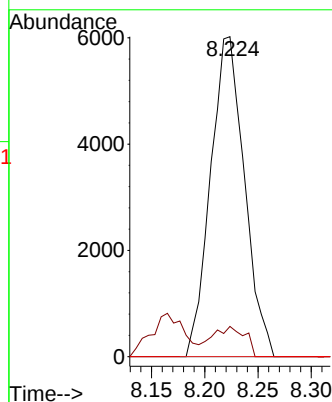
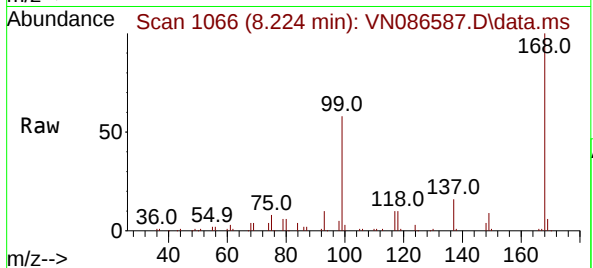
Tgt Ion: 75 Resp: 13315

Ion Ratio Lower Upper

75 100

110 9.2 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.236 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

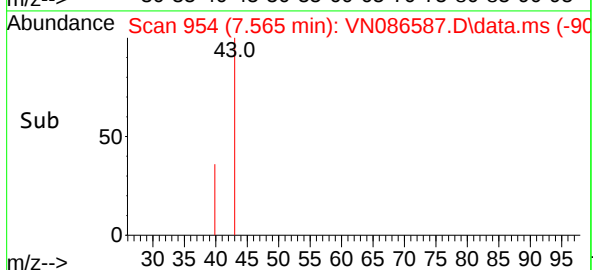
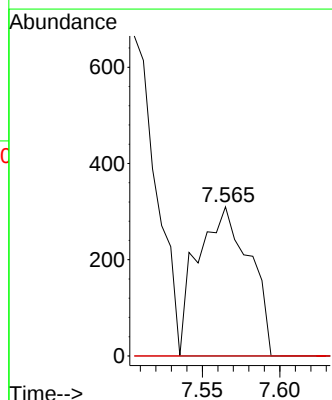
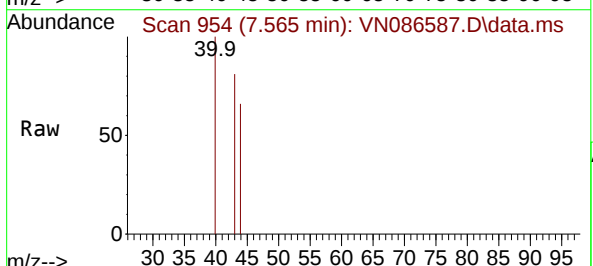
Tgt Ion: 43 Resp: 723

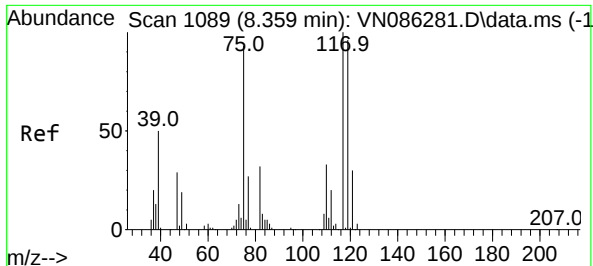
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

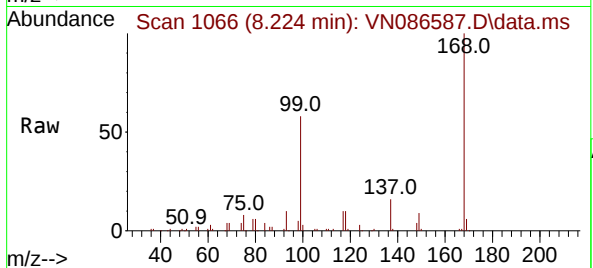
70 0.0 9.2 13.8#



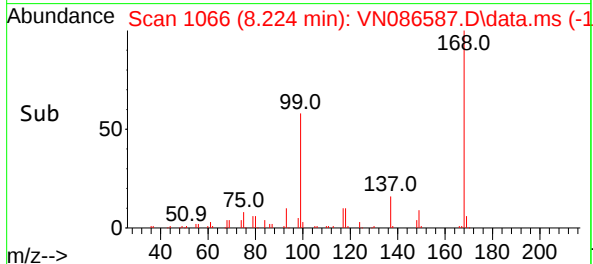
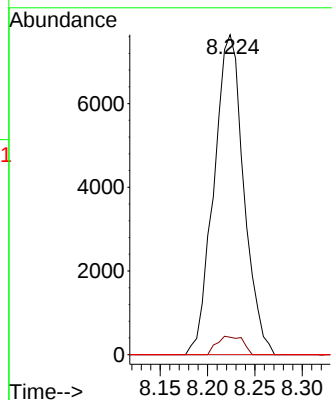


#38
Carbon Tetrachloride
Concen: 6.057 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

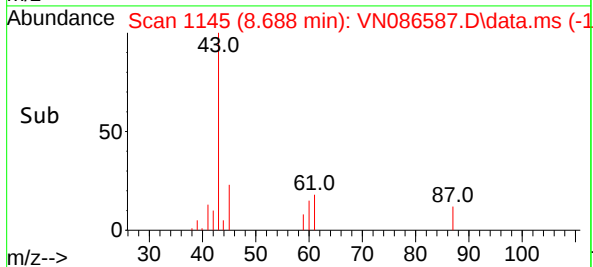
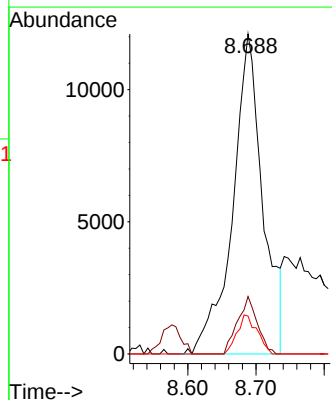
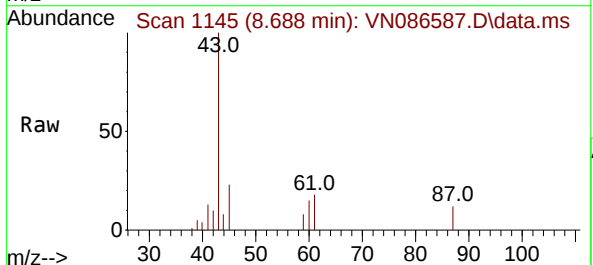


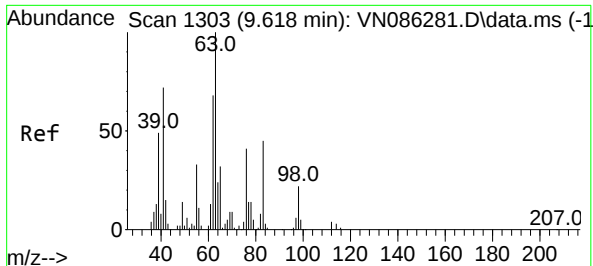
Tgt Ion:117 Resp: 16812
Ion Ratio Lower Upper
117 100
119 5.4 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 4.949 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 43 Resp: 37036
Ion Ratio Lower Upper
43 100
61 11.8 20.5 30.7#
87 8.1 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.369 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

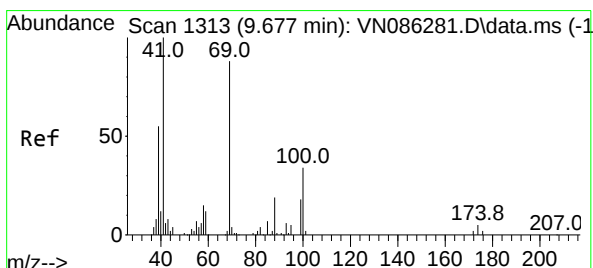
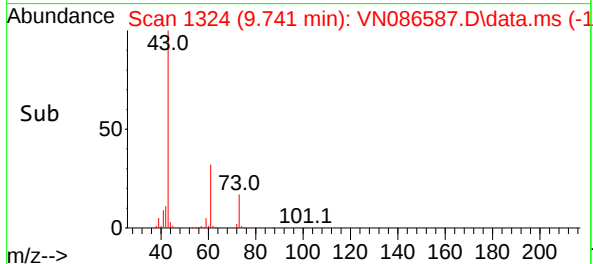
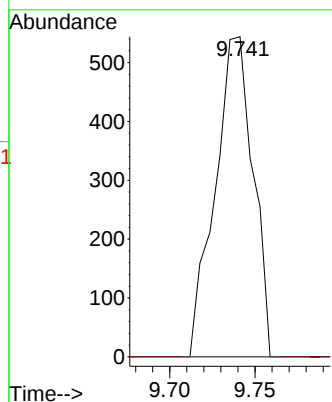
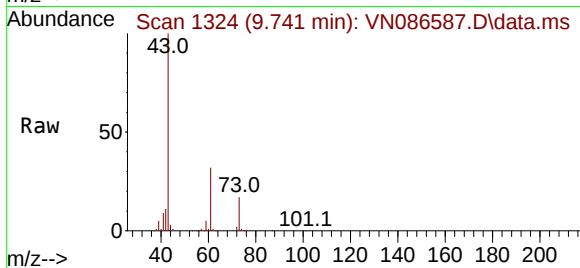
PB167932ZHE#12

Tgt Ion: 63 Resp: 843

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.002 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

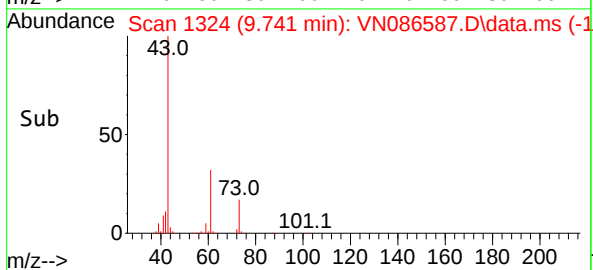
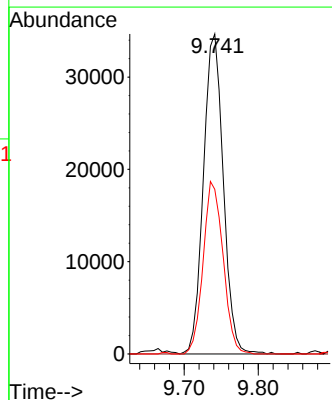
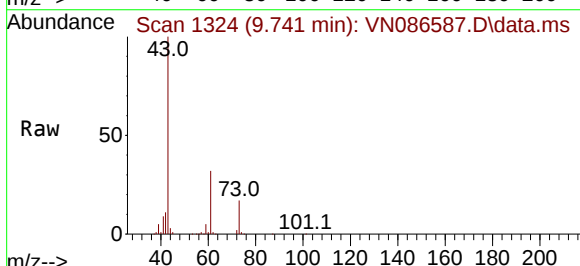
Tgt Ion: 41 Resp: 64682

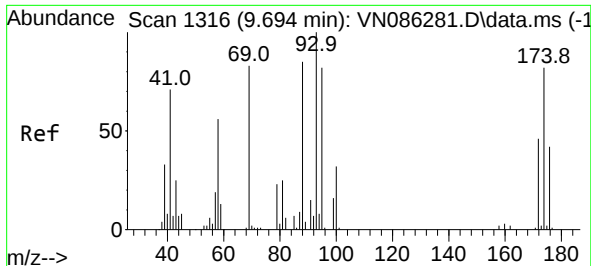
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.0 45.2 67.8





#49

1,4-Dioxane

Concen: 1.200 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN086587.D

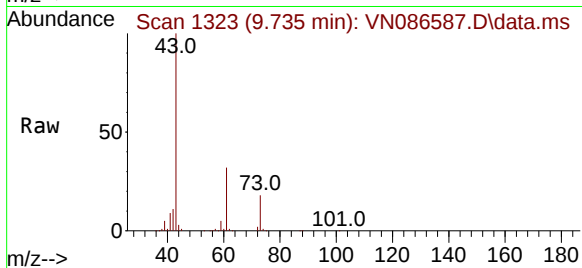
Acq: 12 May 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#12



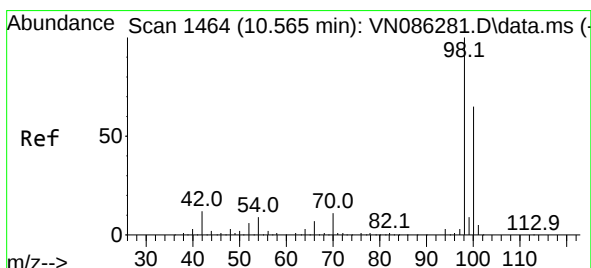
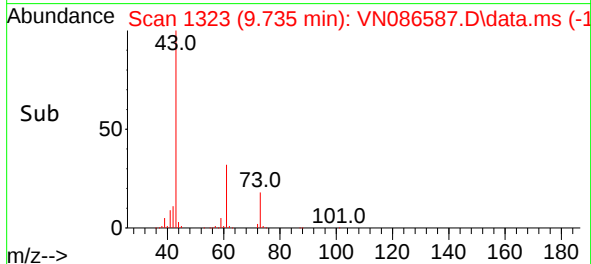
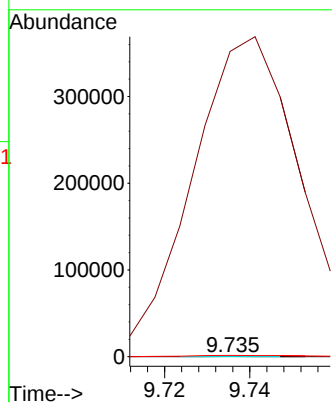
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 1219181.8 23.8 35.8#

58 5307.3 57.4 86.2#



#50

Toluene-d8

Concen: 52.038 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086587.D

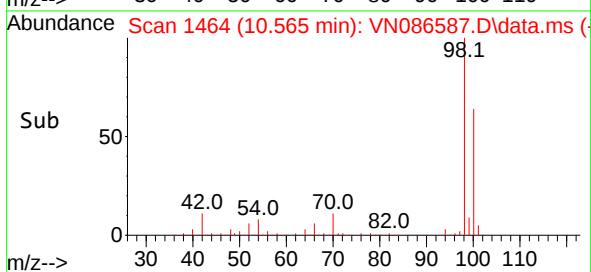
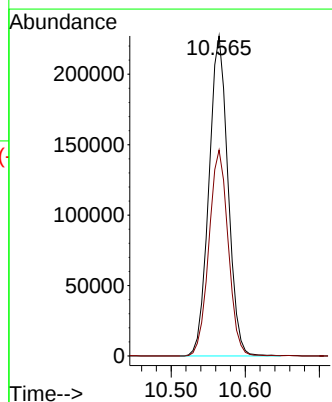
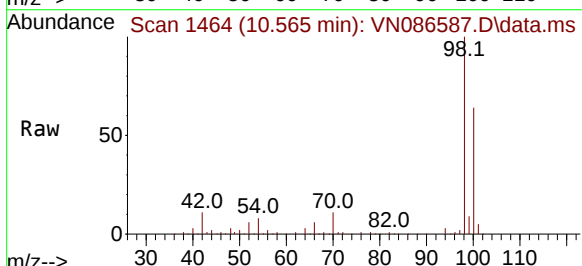
Acq: 12 May 2025 17:42

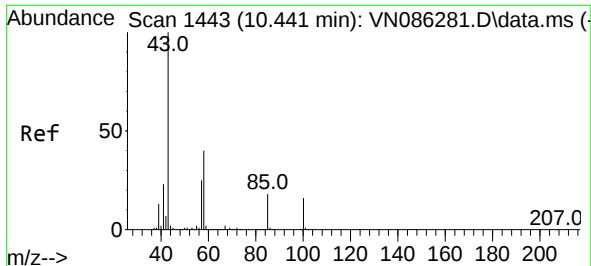
Tgt Ion: 98 Resp: 405865

Ion Ratio Lower Upper

98 100

100 65.0 52.5 78.7

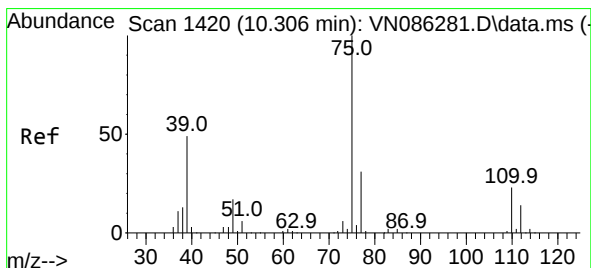
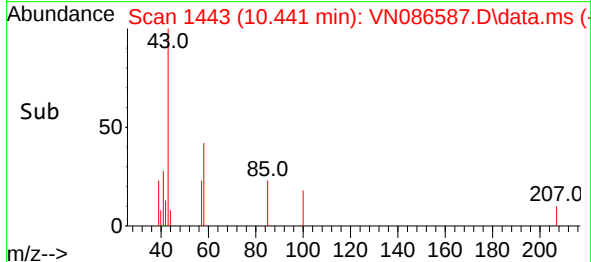
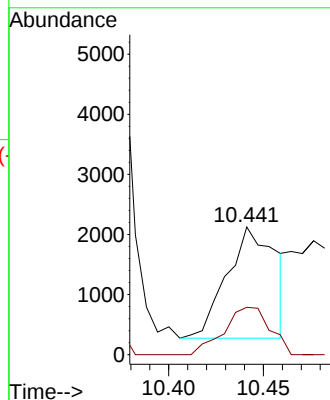
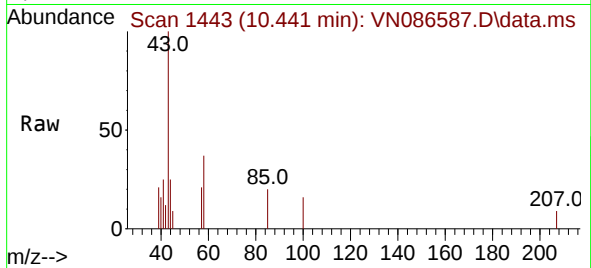




#51
4-Methyl-2-Pentanone
Concen: 1.052 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

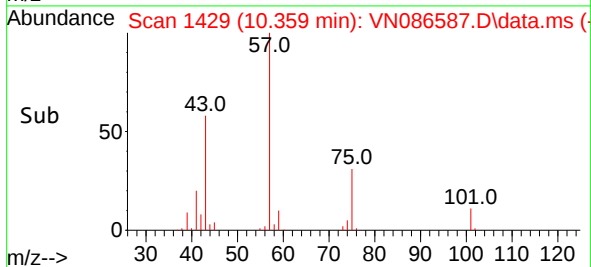
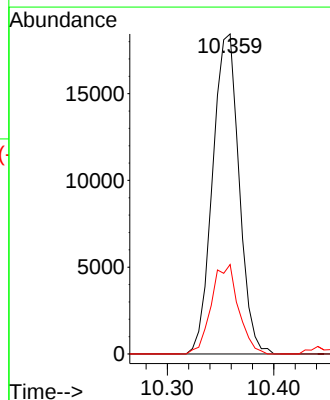
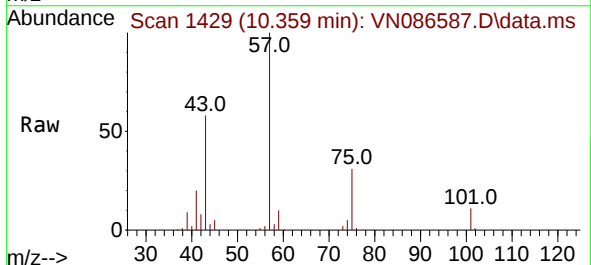
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

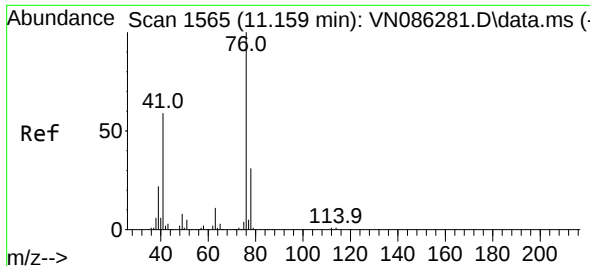
Tgt Ion: 43 Resp: 3305
Ion Ratio Lower Upper
43 100
58 40.4 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.235 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.053 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 75 Resp: 31763
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.9 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.818 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

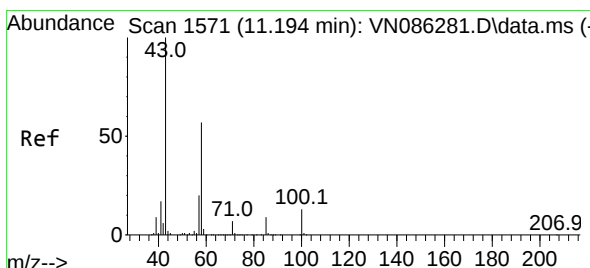
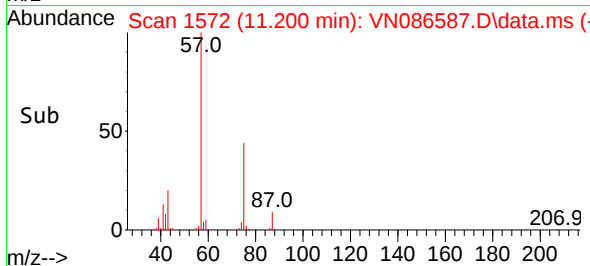
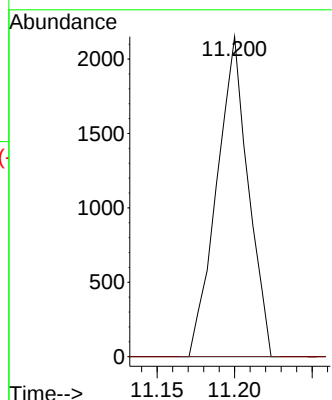
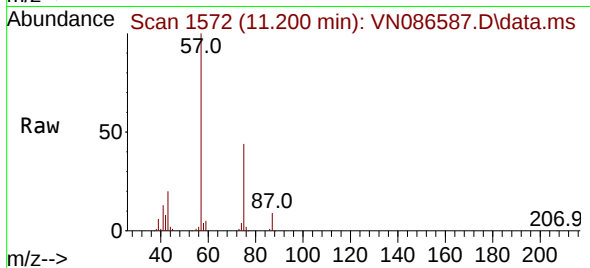
PB167932ZHE#12

Tgt Ion: 76 Resp: 3042

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.843 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086587.D

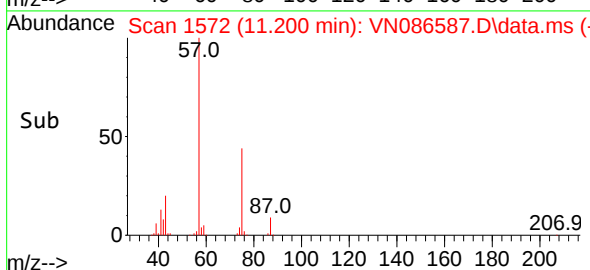
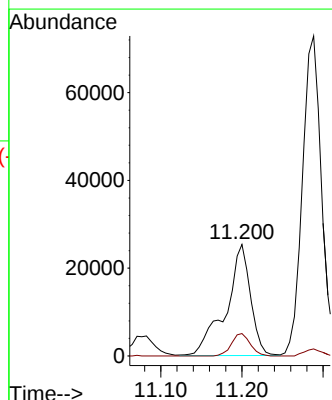
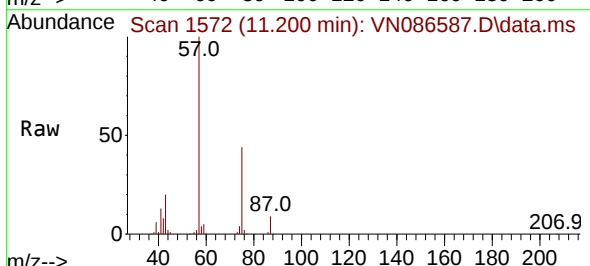
Acq: 12 May 2025 17:42

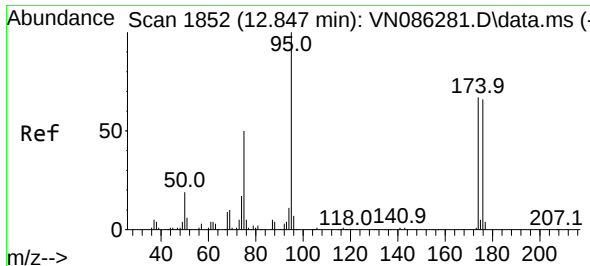
Tgt Ion: 43 Resp: 53243

Ion Ratio Lower Upper

43 100

58 15.4 28.3 85.0#

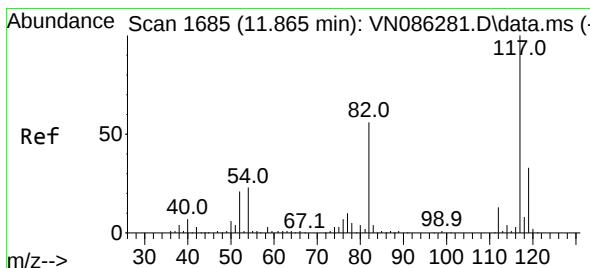
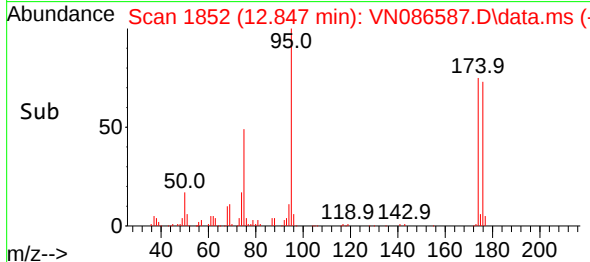
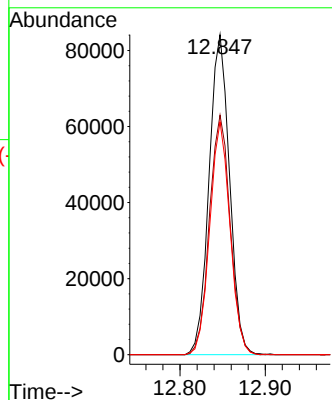
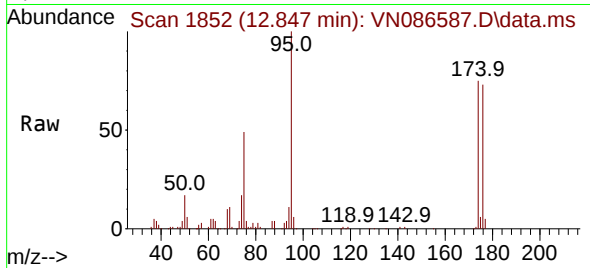




#62
4-Bromofluorobenzene
Concen: 49.365 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

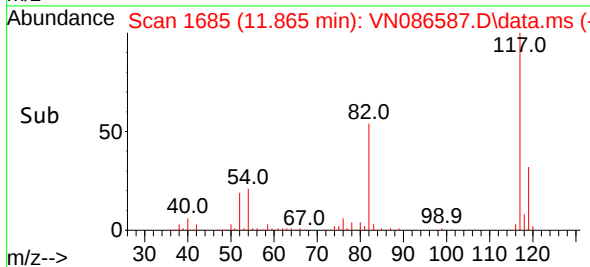
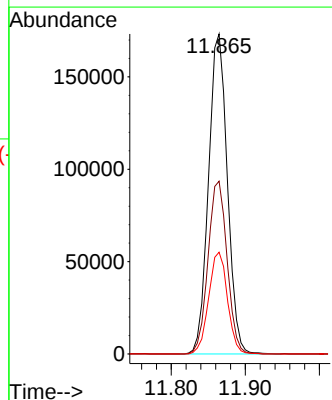
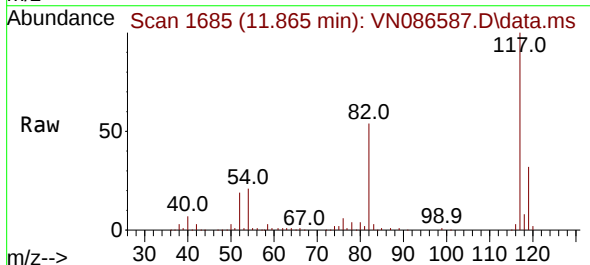
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

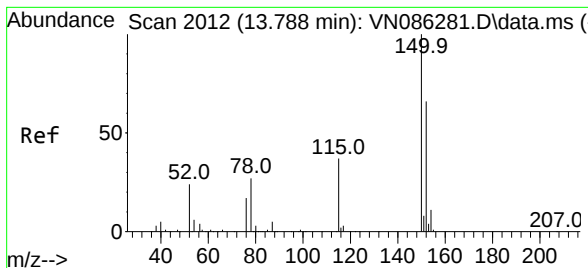
Tgt Ion: 95 Resp: 140433
Ion Ratio Lower Upper
95 100
174 75.8 0.0 133.4
176 71.7 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 117 Resp: 306123
Ion Ratio Lower Upper
117 100
82 54.0 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: VN086587.D

Acq: 12 May 2025 17:42

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#12

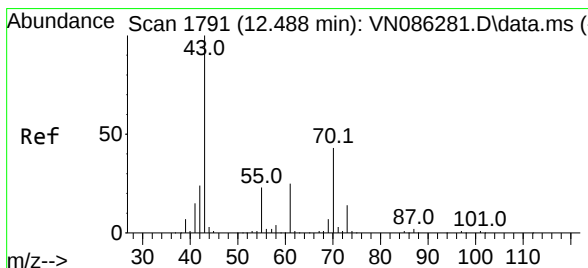
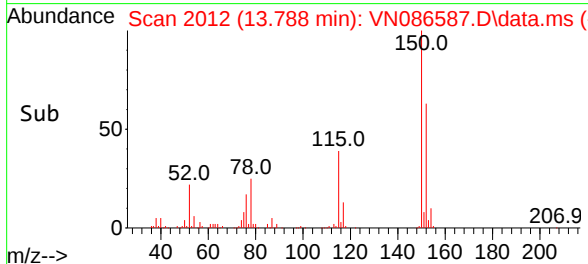
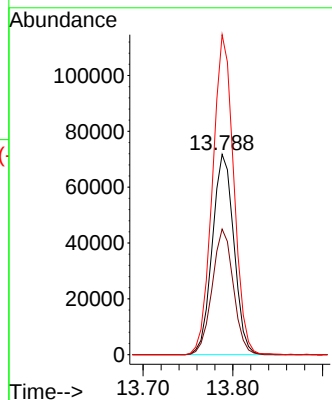
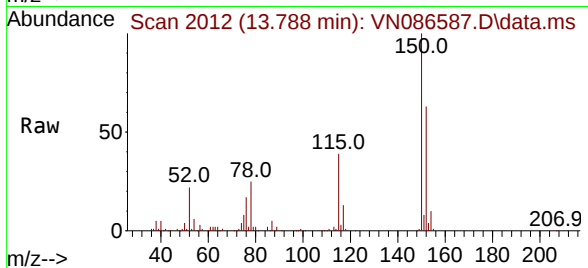
Tgt Ion:152 Resp: 119869

Ion Ratio Lower Upper

152 100

115 61.4 31.9 95.9

150 157.3 0.0 352.0



#74

N-ethyl acetate

Concen: 0.501 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.029 min

Lab File: VN086587.D

Acq: 12 May 2025 17:42

Tgt Ion: 43 Resp: 2447

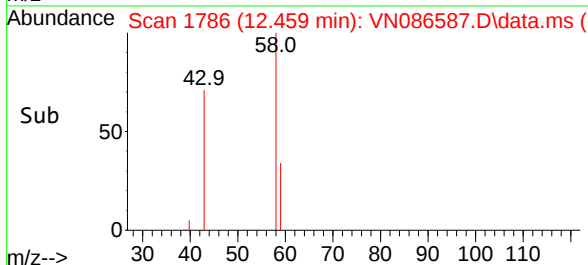
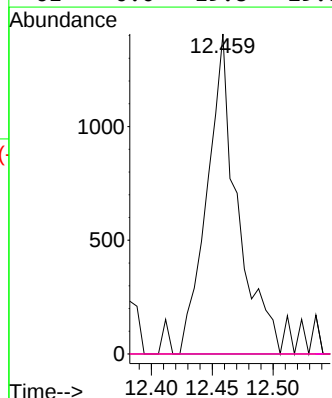
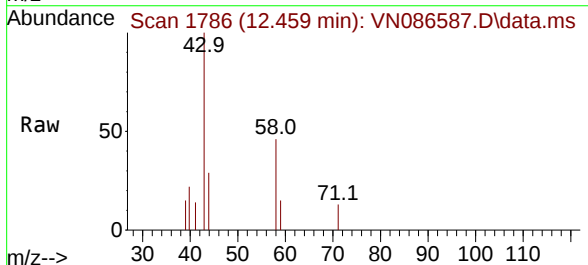
Ion Ratio Lower Upper

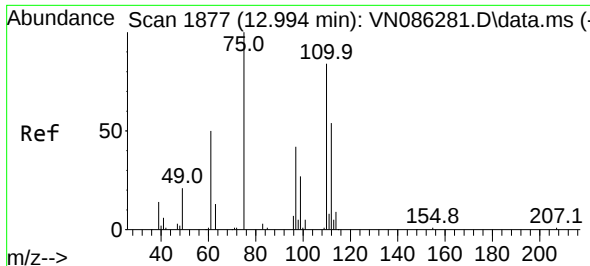
43 100

70 0.0 35.0 52.4#

55 0.0 19.0 28.4#

61 0.0 19.8 29.8#

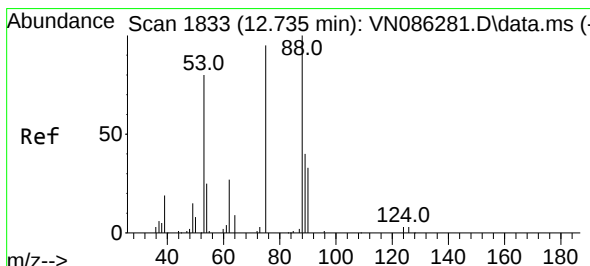
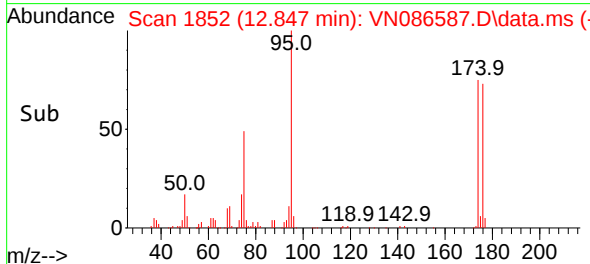
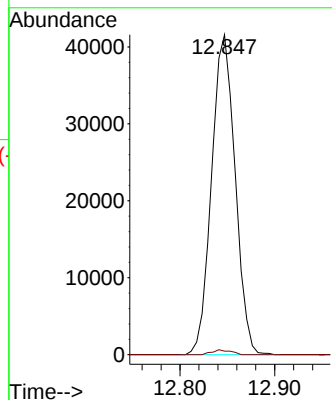
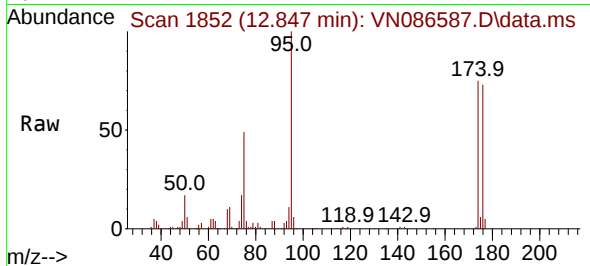




#76
1,2,3-Trichloropropane
Concen: 25.390 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#12

Tgt Ion: 75 Resp: 71821
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.977 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086587.D
Acq: 12 May 2025 17:42

Tgt Ion: 75 Resp: 71821
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

