

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086603.D
 Acq On : 13 May 2025 15:47
 Operator : JC\MD
 Sample : PB167964ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#01

Quant Time: May 14 01:46:10 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)

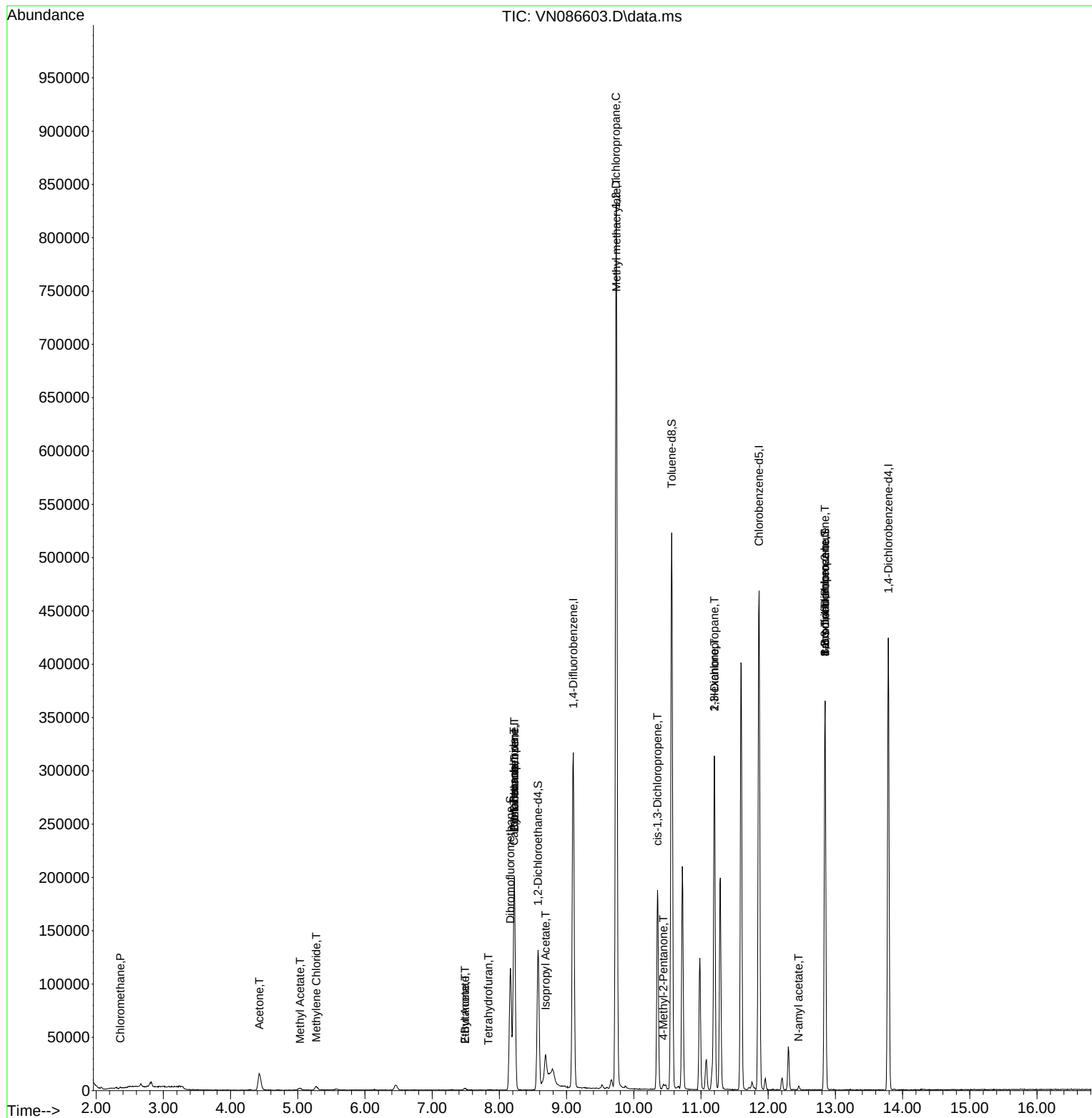
Internal Standards						
1) Pentafluorobenzene	8.224	168	146802	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284447	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276994	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114167	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	108286	50.868	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.740%		
35) Dibromofluoromethane	8.165	113	85584	64.829	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 129.660%#		
50) Toluene-d8	10.565	98	368222	52.189	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 104.380%		
62) 4-Bromofluorobenzene	12.847	95	128578	49.963	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 99.920%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	867	0.343	ug/l #	88
16) Acetone	4.430	43	30792	36.974	ug/l	98
18) Methyl Acetate	5.036	43	3961	1.550	ug/l #	89
20) Methylene Chloride	5.277	84	2599	1.321	ug/l #	88
25) 2-Butanone	7.488	43	2935	2.215	ug/l	99
29) Tetrahydrofuran	7.835	42	283	0.319	ug/l #	32
31) Cyclohexane	8.224	56	3267	0.947	ug/l #	9
36) 1,1-Dichloropropene	8.224	75	12043	4.567	ug/l #	48
37) Ethyl Acetate	7.488	43	2935	1.057	ug/l #	68
38) Carbon Tetrachloride	8.218	117	15296	6.091	ug/l #	16
43) Isopropyl Acetate	8.688	43	56235	9.605	ug/l #	72
45) 1,2-Dichloropropane	9.735	63	1002	0.485	ug/l #	43
48) Methyl methacrylate	9.741	41	74691	30.639	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	3514	1.236	ug/l	95
54) cis-1,3-Dichloropropene	10.353	75	35746	10.245	ug/l #	63
57) 1,3-Dichloropropane	11.200	76	3441	1.023	ug/l #	43
59) 2-Hexanone	11.200	43	58396	27.696	ug/l #	44
71) Bromoform	12.847	173	650	0.423	ug/l #	1
74) N-amyl acetate	12.453	43	3285	0.707	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	66846	24.811	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	66846	59.588	ug/l #	10

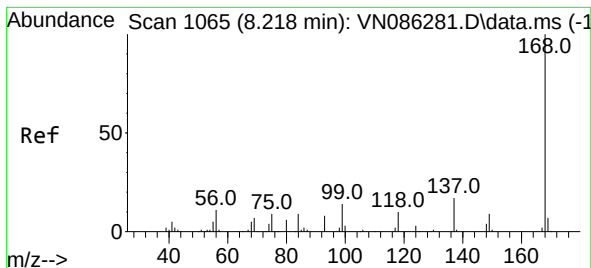
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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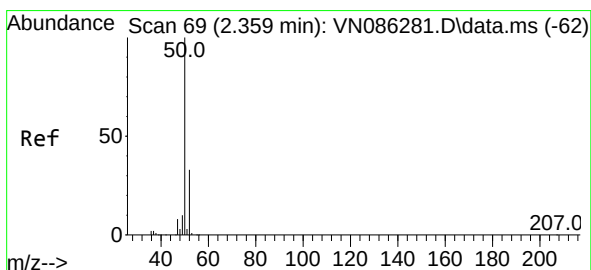
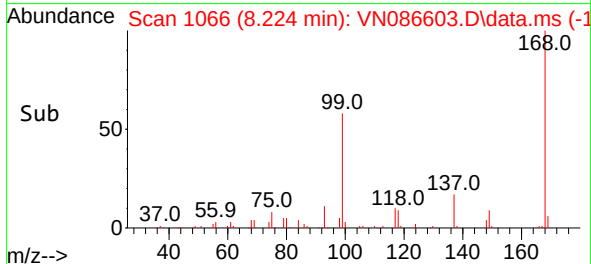
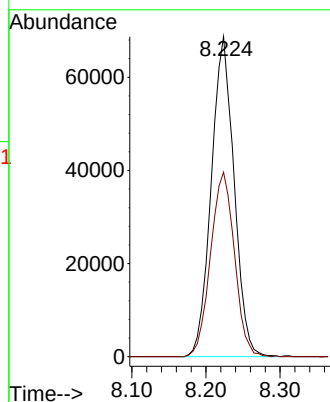
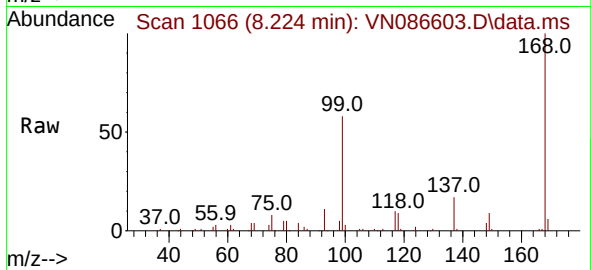




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

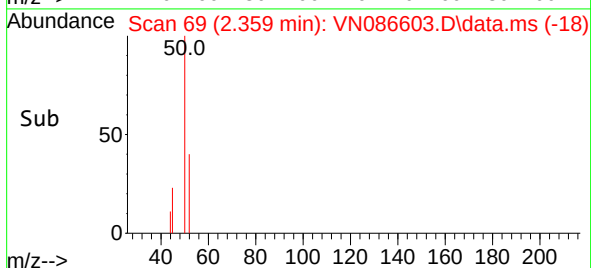
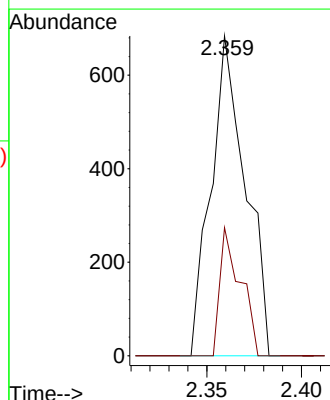
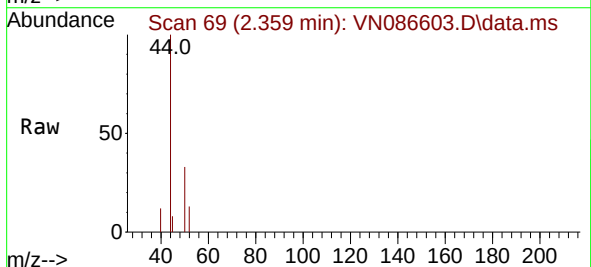
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

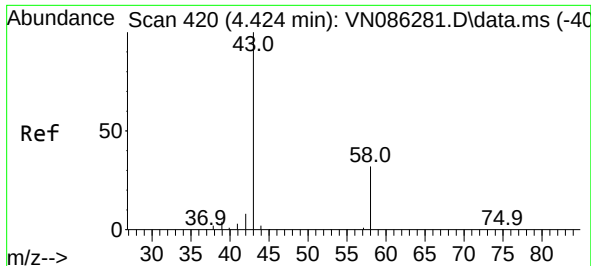
Tgt Ion:168 Resp: 146802
Ion Ratio Lower Upper
168 100
99 57.7 52.5 78.7



#3
Chloromethane
Concen: 0.343 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion: 50 Resp: 867
Ion Ratio Lower Upper
50 100
52 40.1 26.5 39.7#

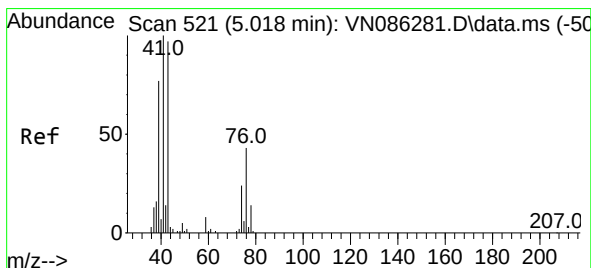
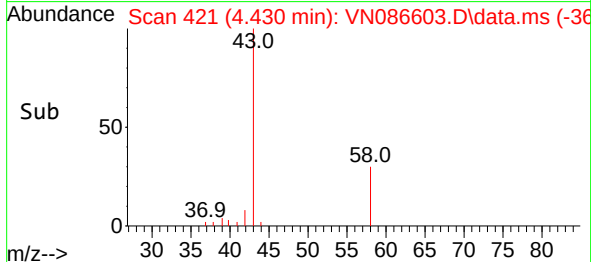
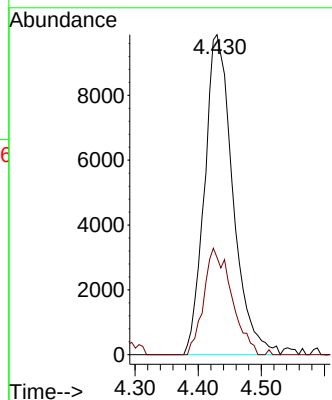
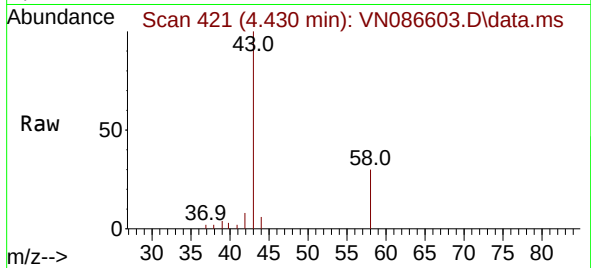




#16
Acetone
Concen: 36.974 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

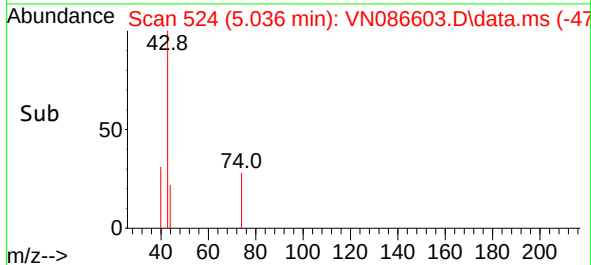
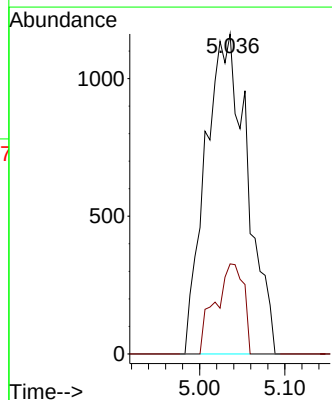
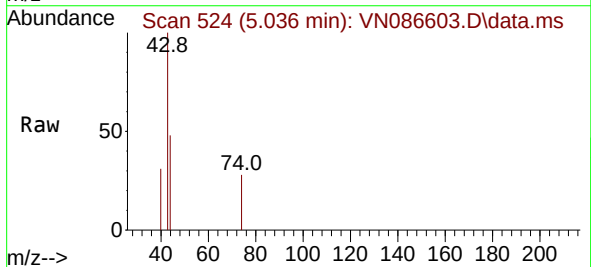
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

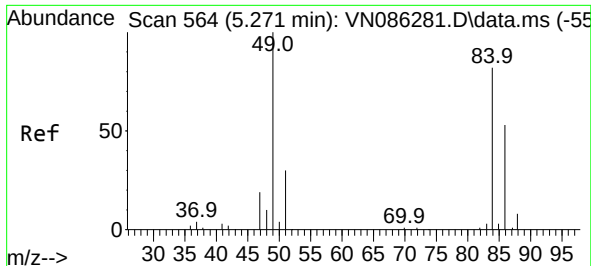
Tgt Ion: 43 Resp: 30792
Ion Ratio Lower Upper
43 100
58 30.4 25.3 37.9



#18
Methyl Acetate
Concen: 1.550 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

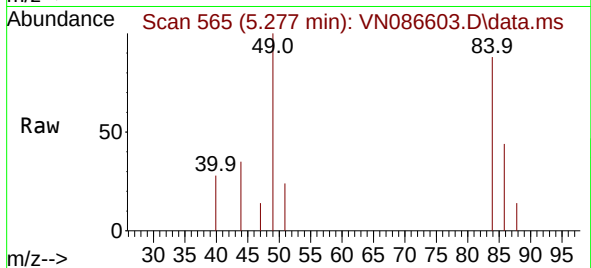
Tgt Ion: 43 Resp: 3961
Ion Ratio Lower Upper
43 100
74 19.1 19.8 29.6#



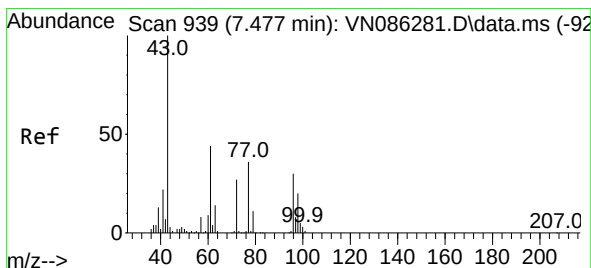
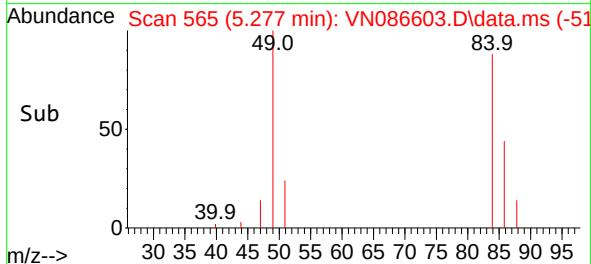
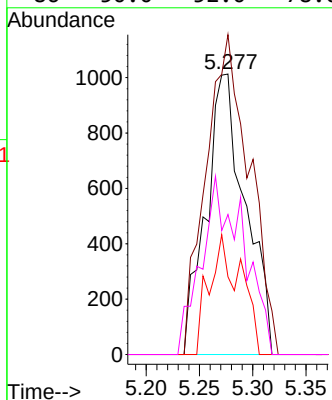


#20
Methylene Chloride
Concen: 1.321 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

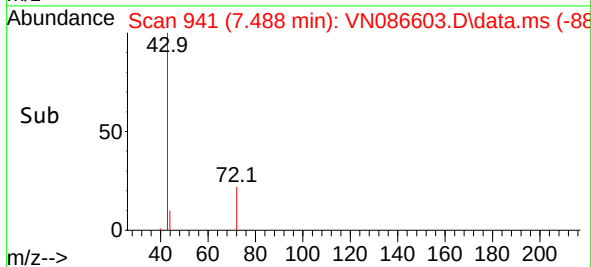
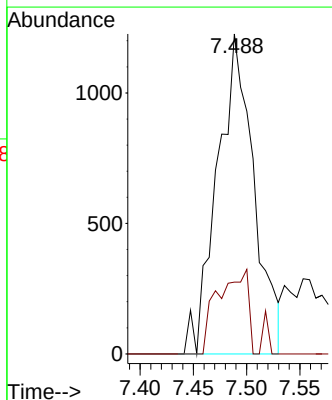
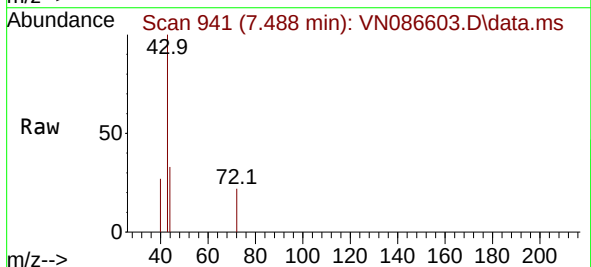


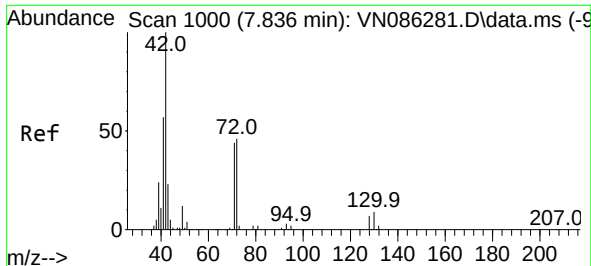
Tgt Ion:	84	Resp:	2599
Ion	Ratio	Lower	Upper
84	100		
49	114.0	98.2	147.2
51	27.7	29.8	44.6#
86	50.0	52.0	78.0#



#25
2-Butanone
Concen: 2.215 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion:	43	Resp:	2935
Ion	Ratio	Lower	Upper
43	100		
72	26.7	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.319 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#01

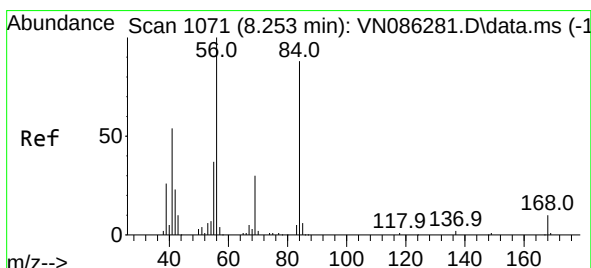
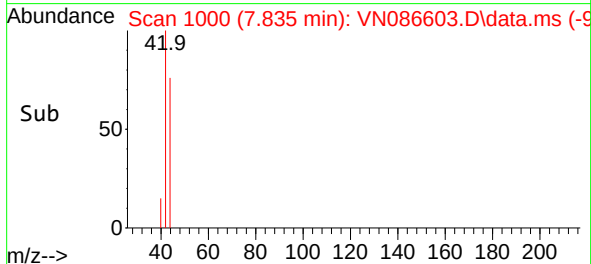
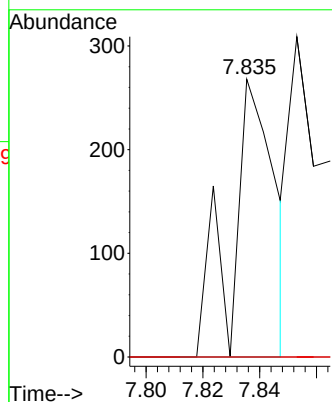
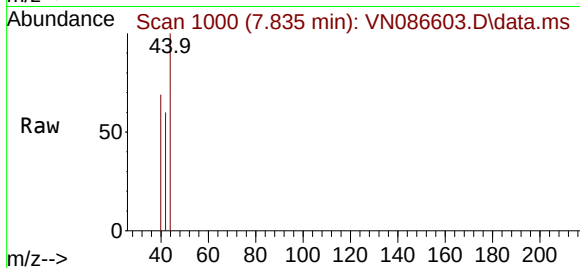
Tgt Ion: 42 Resp: 283

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 0.947 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

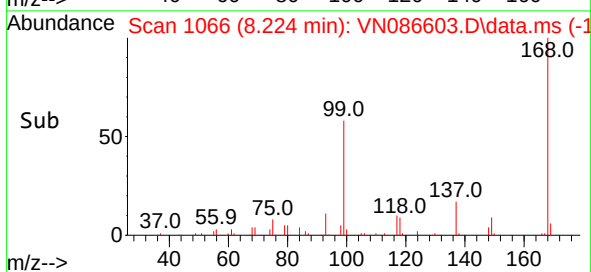
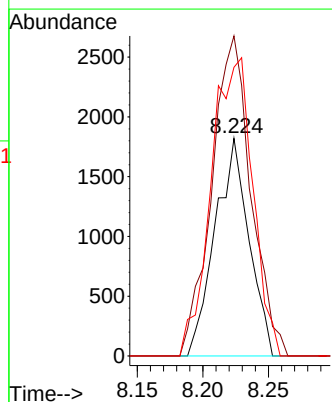
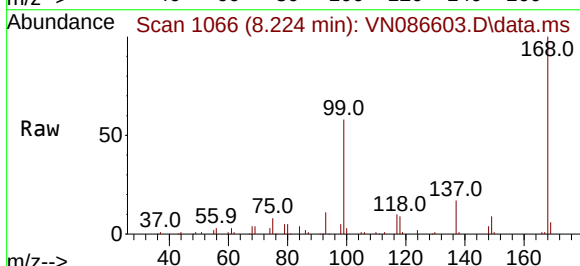
Tgt Ion: 56 Resp: 3267

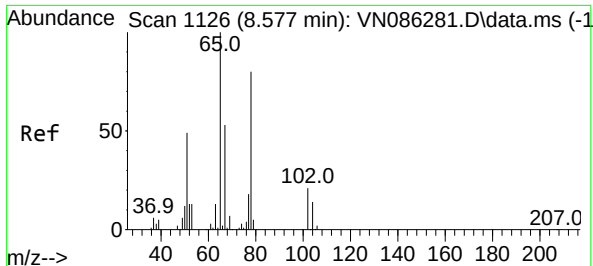
Ion Ratio Lower Upper

56 100

69 147.0 24.2 36.2#

84 132.6 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.868 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

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ClientSampleId :

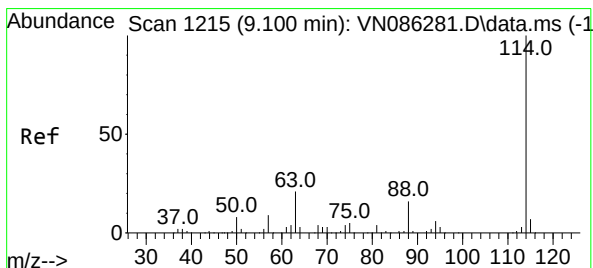
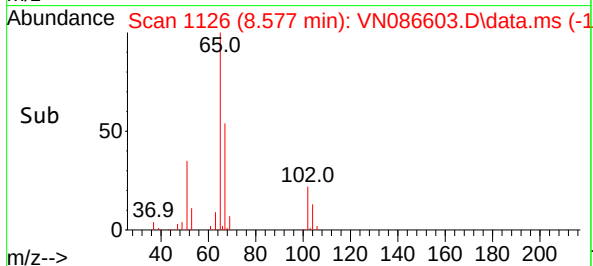
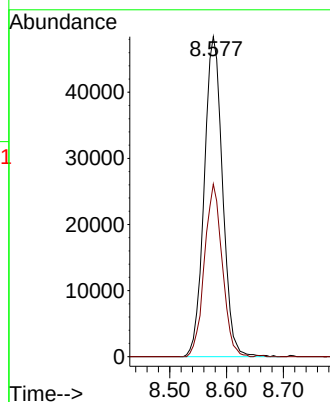
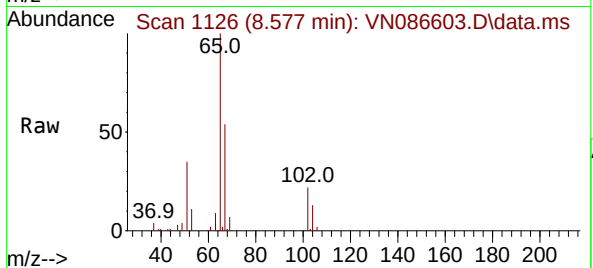
PB167964ZHE#01

Tgt Ion: 65 Resp: 108286

Ion Ratio Lower Upper

65 100

67 52.5 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: VN086603.D

Acq: 13 May 2025 15:47

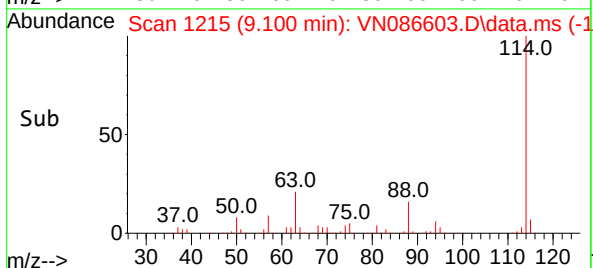
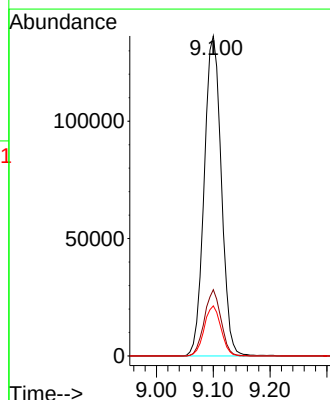
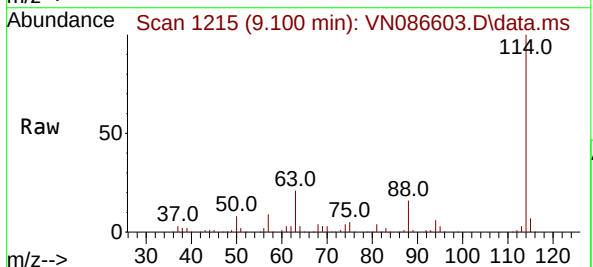
Tgt Ion: 114 Resp: 284447

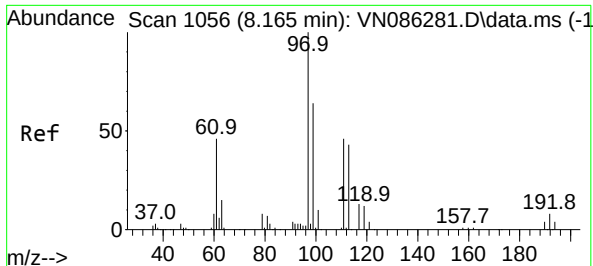
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 64.829 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#01

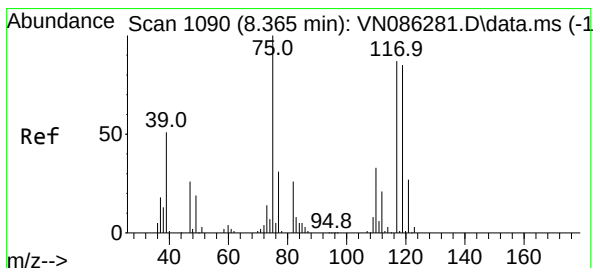
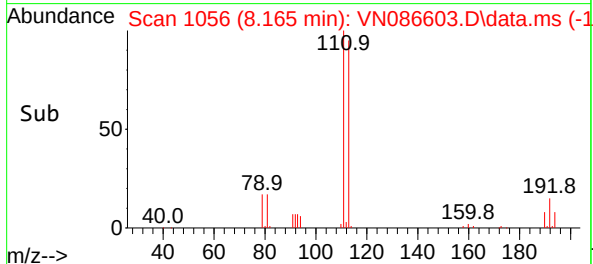
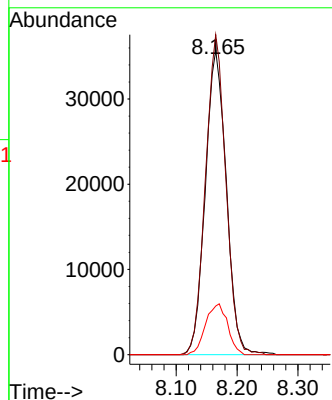
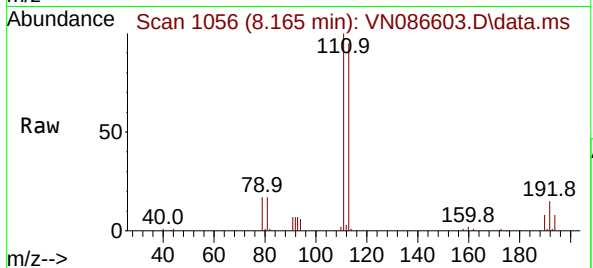
Tgt Ion:113 Resp: 85584

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

192 17.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.567 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

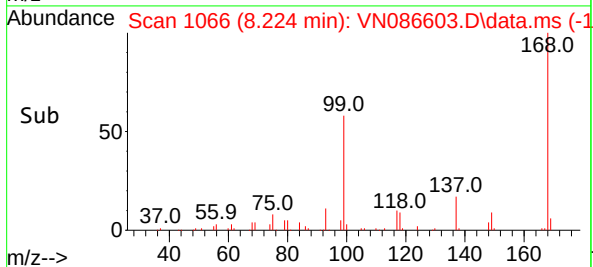
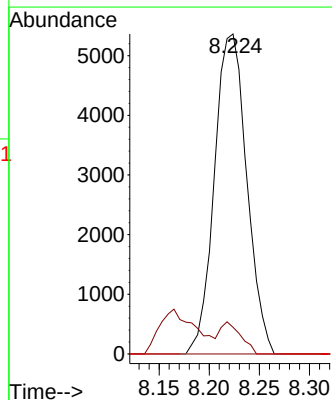
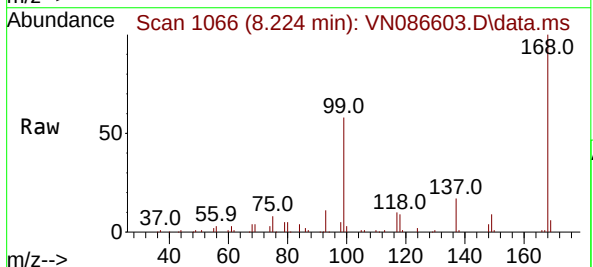
Tgt Ion: 75 Resp: 12043

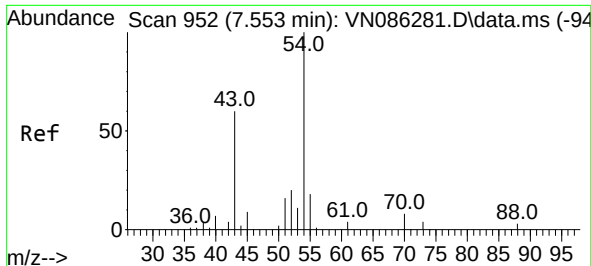
Ion Ratio Lower Upper

75 100

110 6.3 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.057 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.065 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

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PB167964ZHE#01

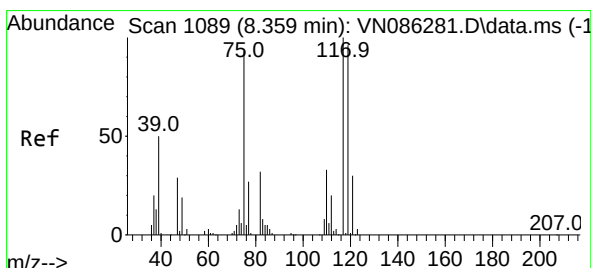
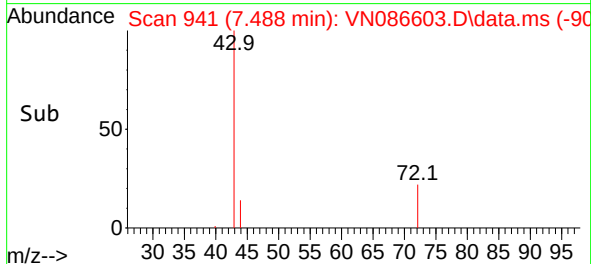
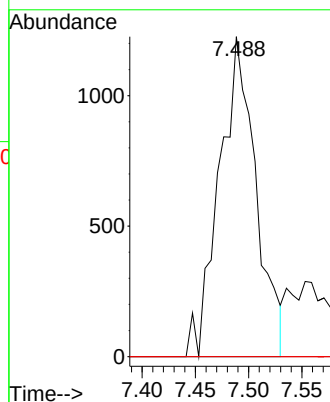
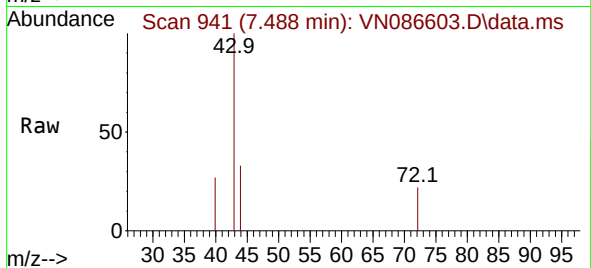
Tgt Ion: 43 Resp: 2935

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.091 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

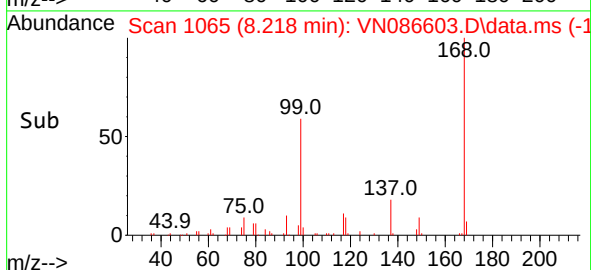
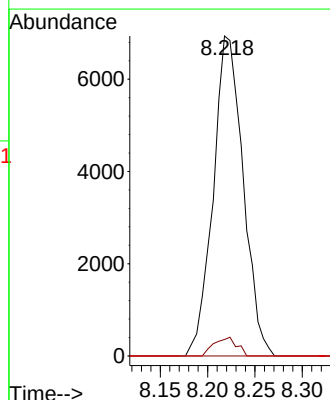
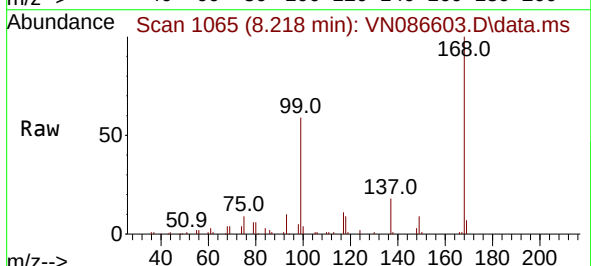
Tgt Ion: 117 Resp: 15296

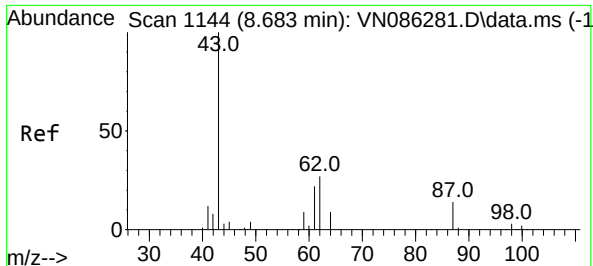
Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 9.605 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#01

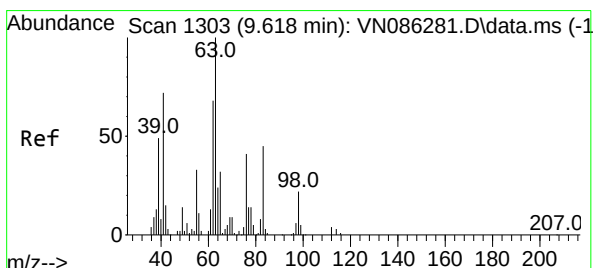
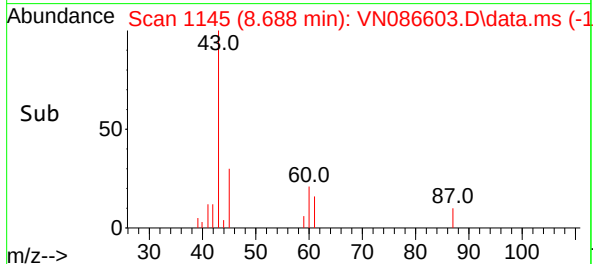
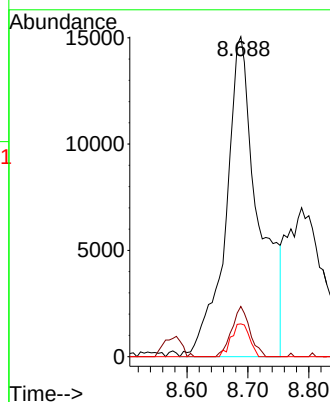
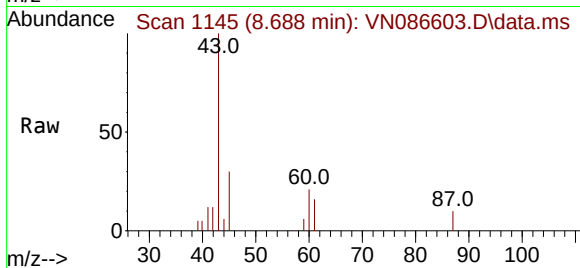
Tgt Ion: 43 Resp: 56235

Ion Ratio Lower Upper

43 100

61 8.6 20.5 30.7#

87 5.7 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.485 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086603.D

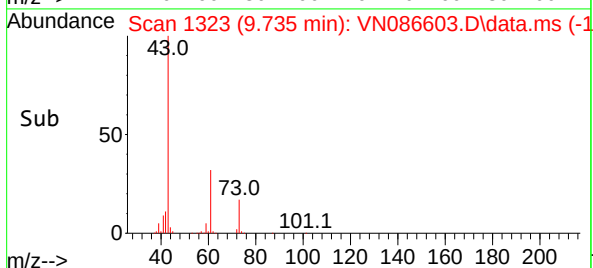
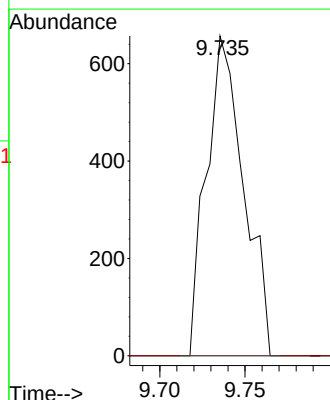
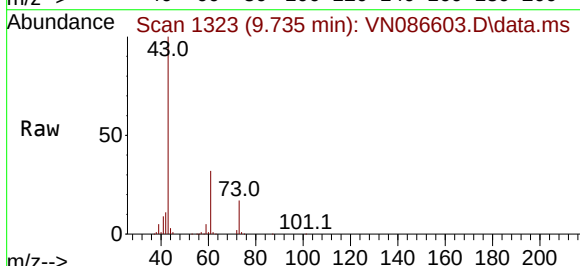
Acq: 13 May 2025 15:47

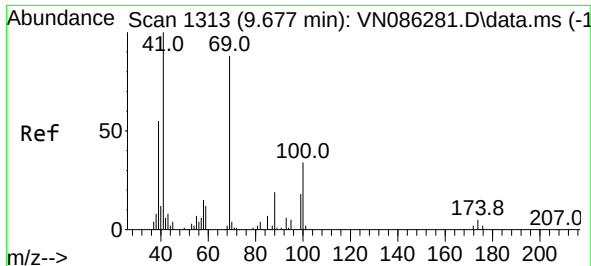
Tgt Ion: 63 Resp: 1002

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

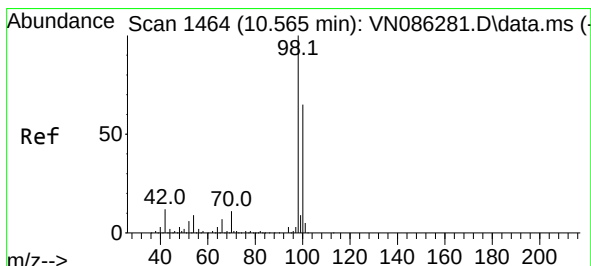
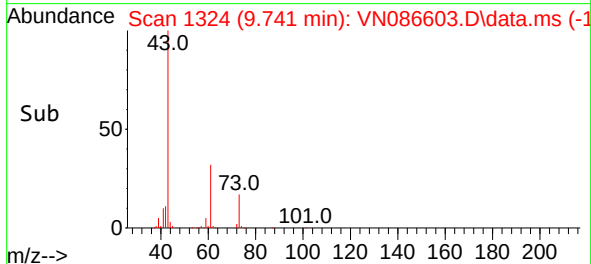
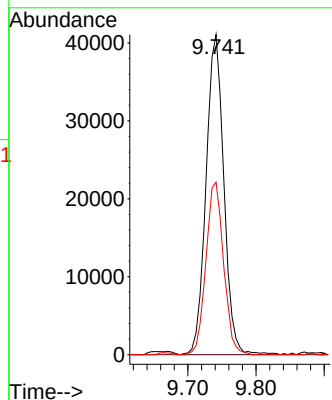
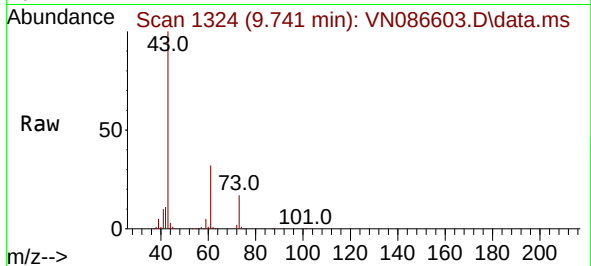




#48
Methyl methacrylate
Concen: 30.639 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

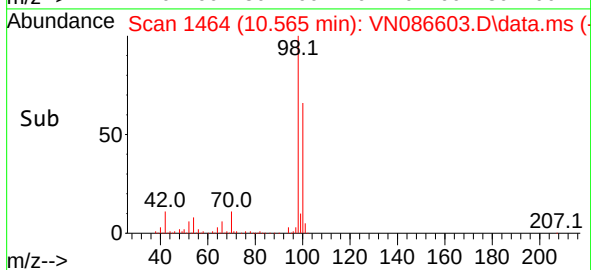
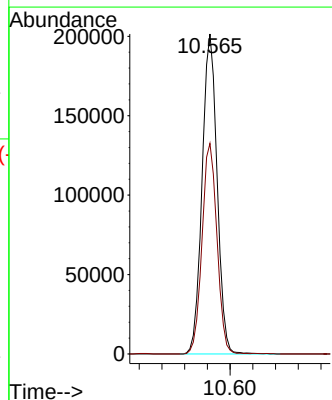
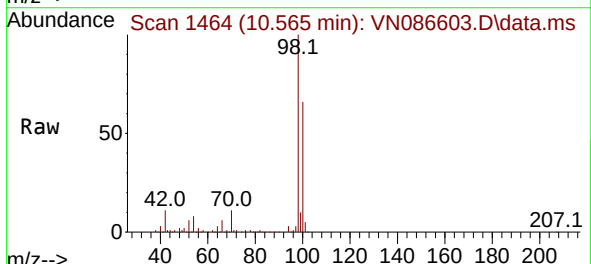
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

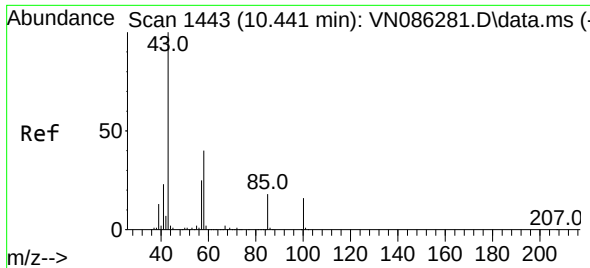
Tgt Ion: 41 Resp: 74691
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.4 45.2 67.8



#50
Toluene-d8
Concen: 52.189 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion: 98 Resp: 368222
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7

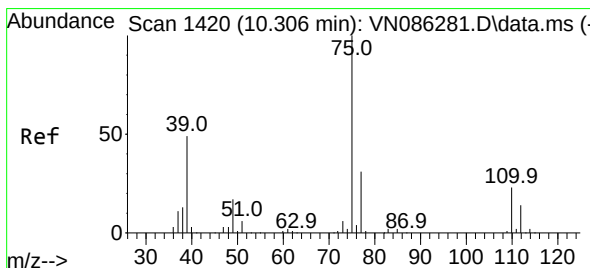
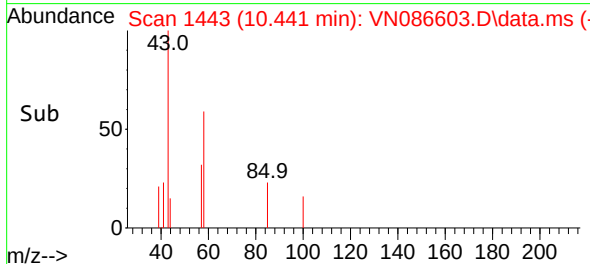
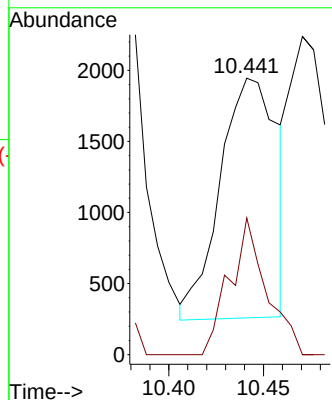
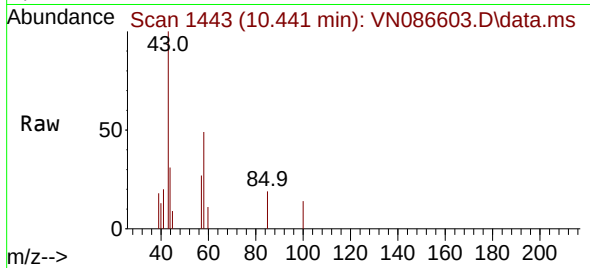




#51
4-Methyl-2-Pentanone
Concen: 1.236 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

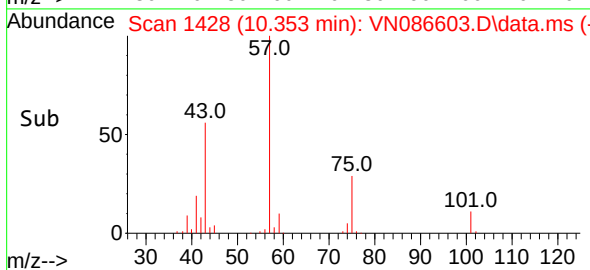
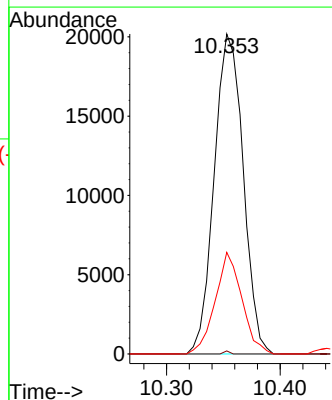
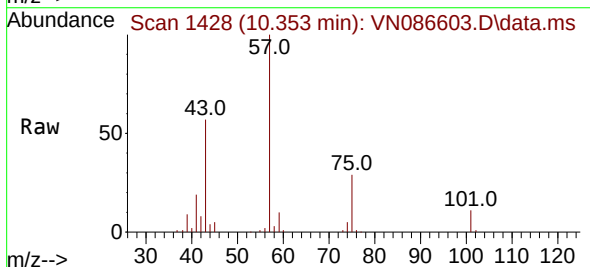
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

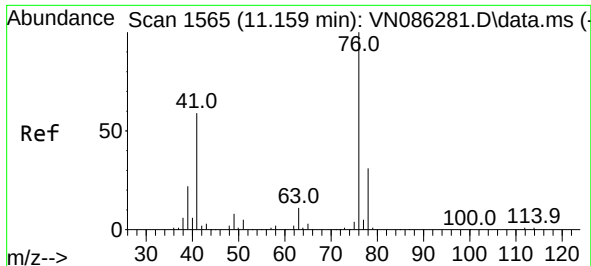
Tgt Ion: 43 Resp: 3514
Ion Ratio Lower Upper
43 100
58 37.0 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 10.245 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion: 75 Resp: 35746
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 31.7 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 1.023 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086603.D

Acq: 13 May 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

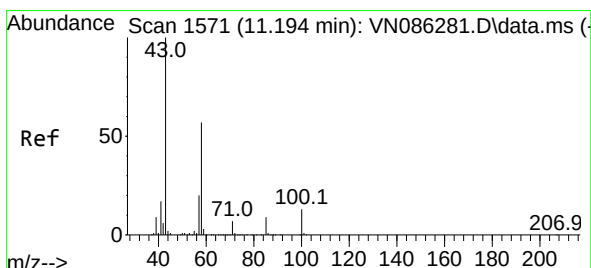
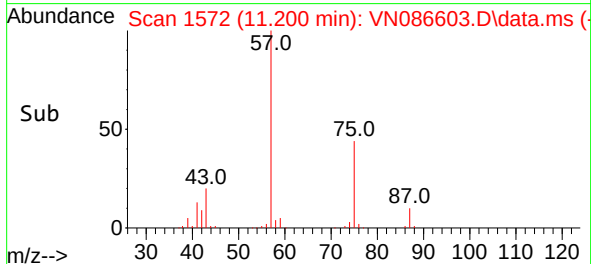
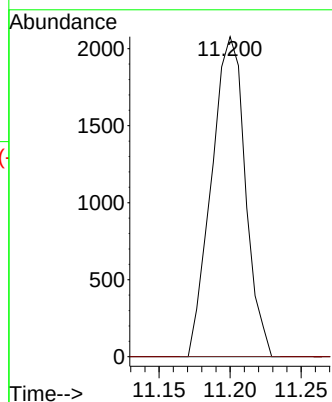
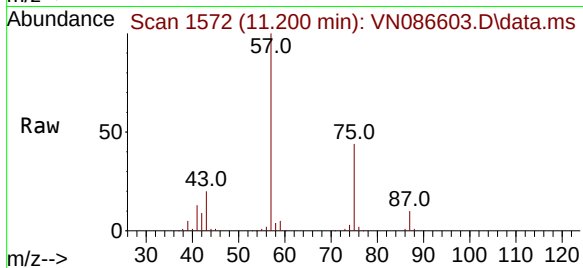
PB167964ZHE#01

Tgt Ion: 76 Resp: 3441

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 27.696 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086603.D

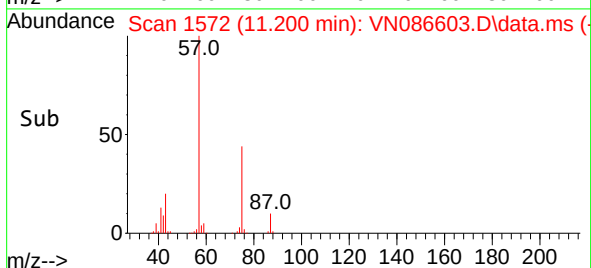
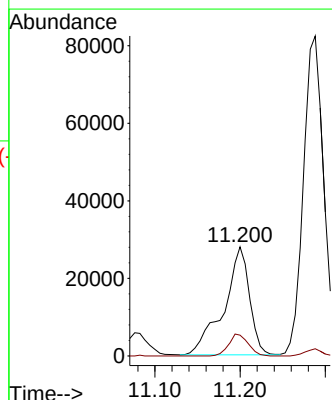
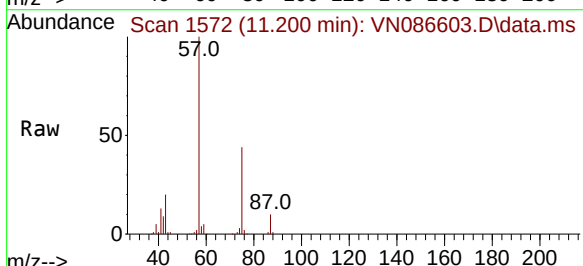
Acq: 13 May 2025 15:47

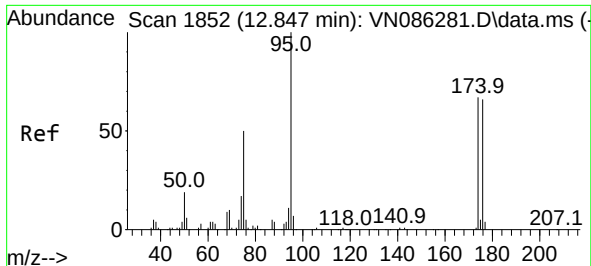
Tgt Ion: 43 Resp: 58396

Ion Ratio Lower Upper

43 100

58 15.4 28.3 85.0#

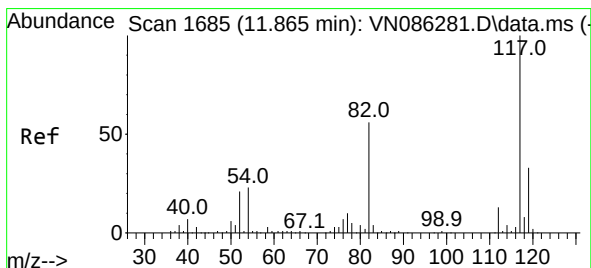
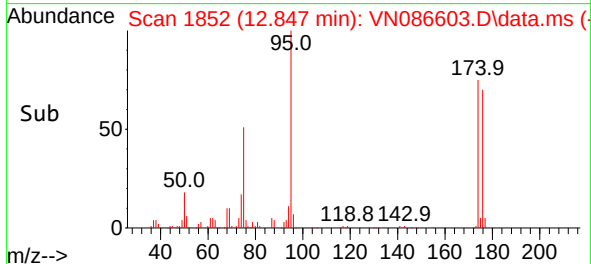
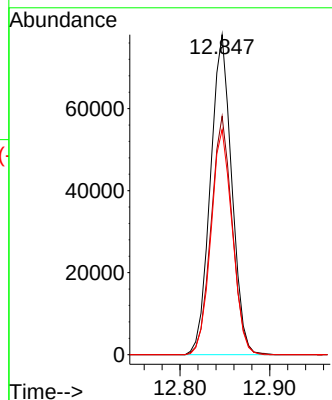
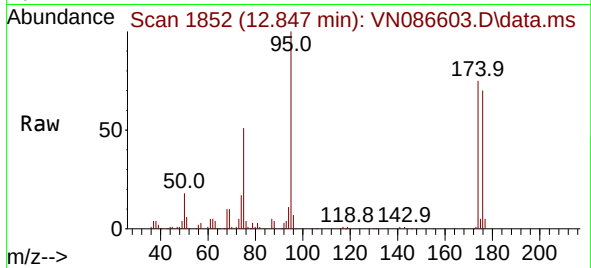




#62
4-Bromofluorobenzene
Concen: 49.963 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

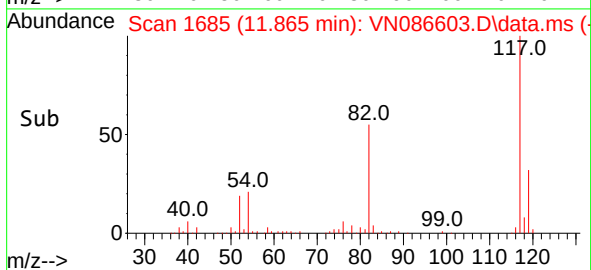
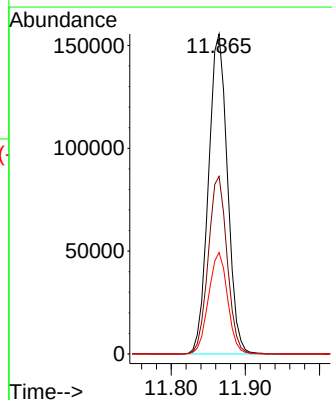
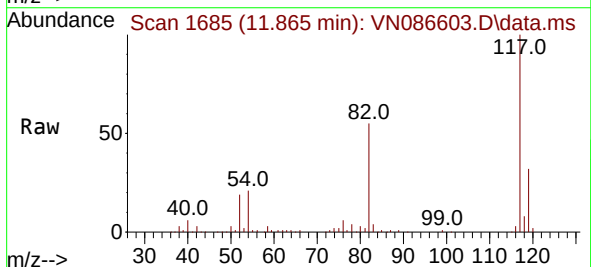
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

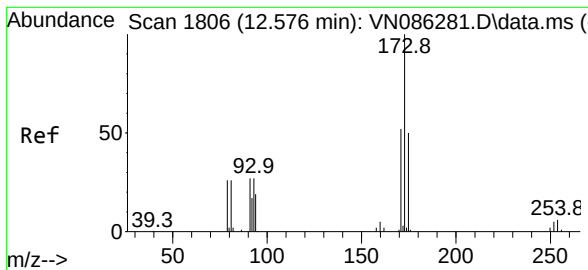
Tgt Ion: 95 Resp: 128578
Ion Ratio Lower Upper
95 100
174 74.0 0.0 133.4
176 70.4 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion: 117 Resp: 276994
Ion Ratio Lower Upper
117 100
82 55.5 44.7 67.1
119 31.7 26.4 39.6

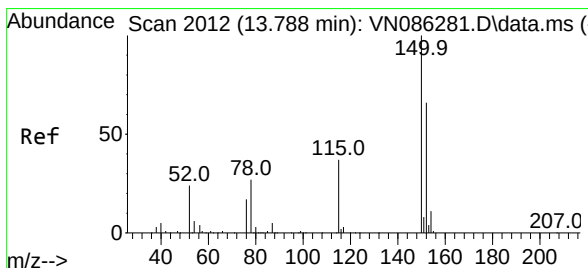
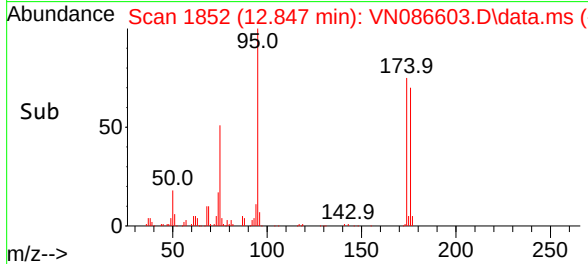
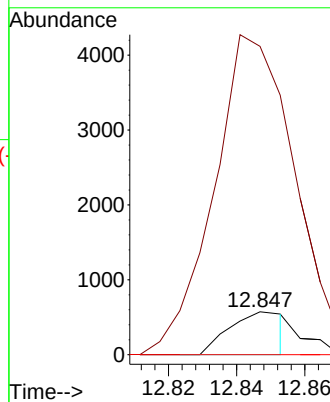
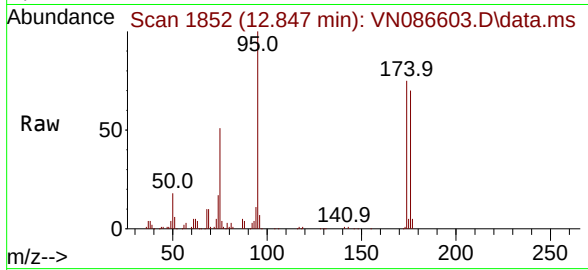




#71
Bromoform
Concen: 0.423 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

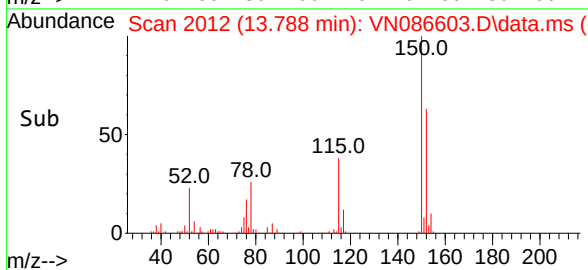
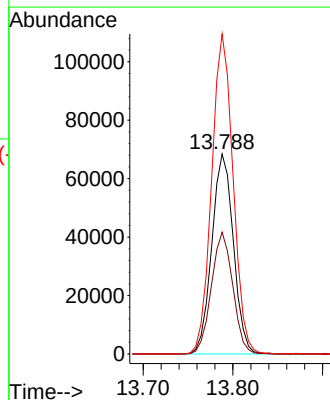
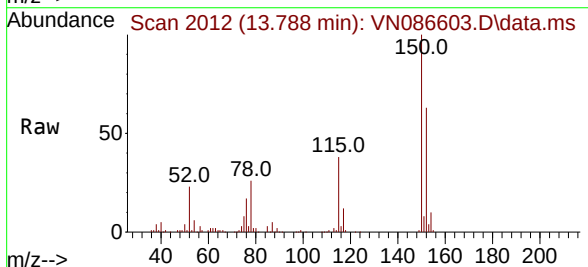
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

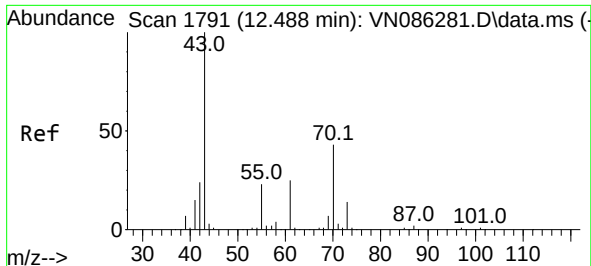
Tgt Ion:173 Resp: 650
Ion Ratio Lower Upper
173 100
175 896.9 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Tgt Ion:152 Resp: 114167
Ion Ratio Lower Upper
152 100
115 60.3 31.9 95.9
150 158.8 0.0 352.0

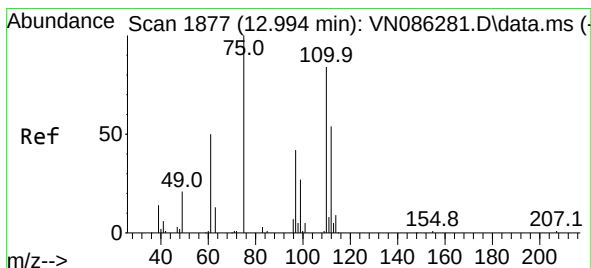
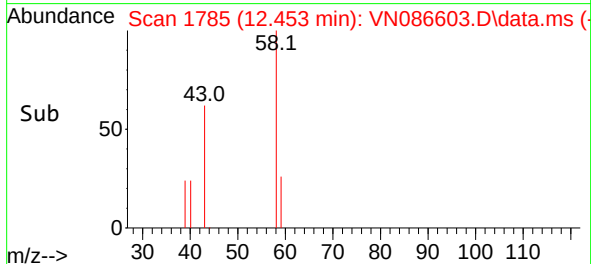
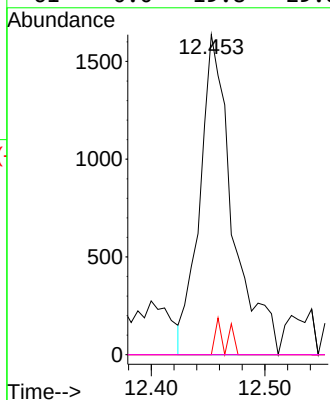
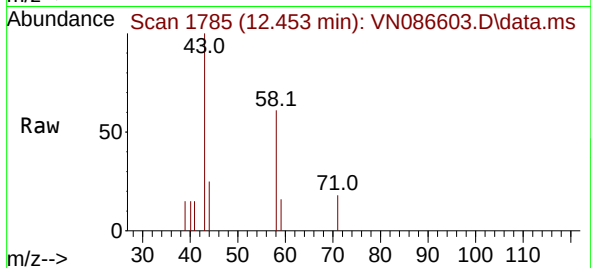




#74
N-amy1 acetate
Concen: 0.707 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

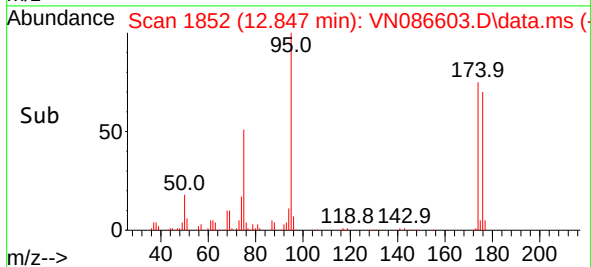
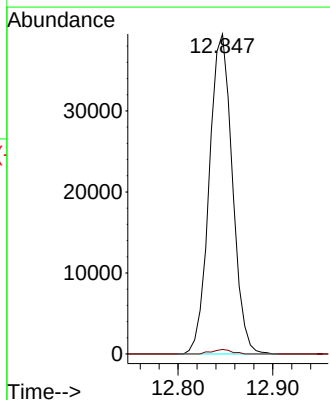
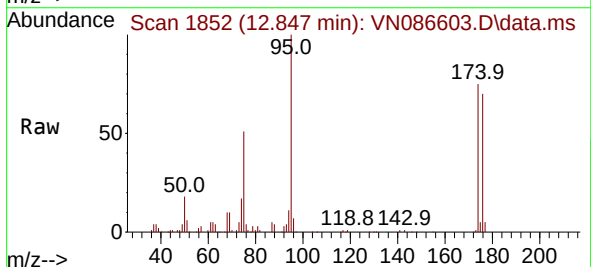
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01

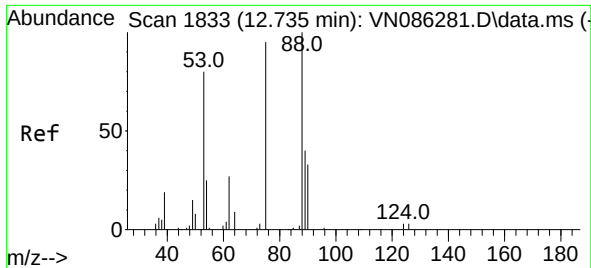
Tgt Ion: 43	Resp: 3285
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 3.7	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.811 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

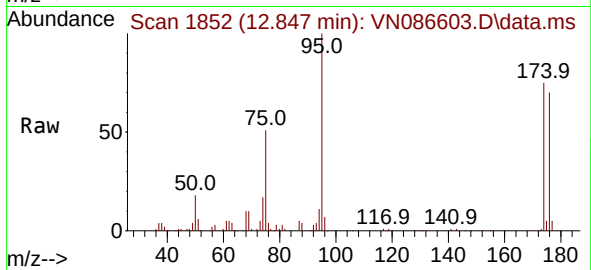
Tgt Ion: 75	Resp: 66846
Ion Ratio	Lower Upper
75 100	
77 1.2	98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 59.588 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086603.D
Acq: 13 May 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#01



Tgt Ion: 75 Resp: 66846
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

