

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086654.D
 Acq On : 15 May 2025 18:49
 Operator : JC\MD
 Sample : PB167995ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#16

Quant Time: May 16 05:32:45 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)

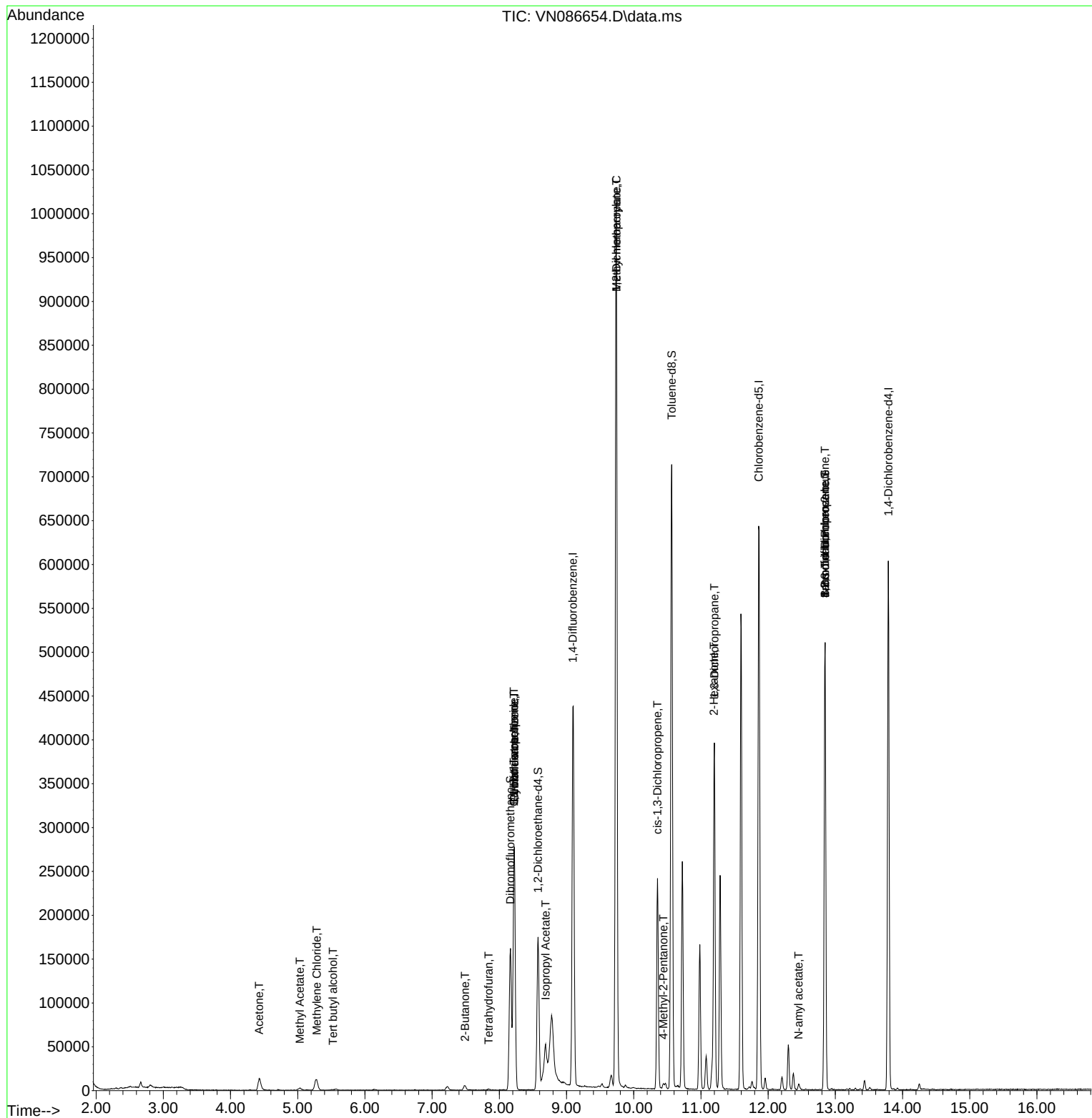
Internal Standards						
1) Pentafluorobenzene	8.224	168	213046	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	400733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	393199	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	165479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	143675	46.506	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.020%			
35) Dibromofluoromethane	8.165	113	121203	65.168	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 130.340%#			
50) Toluene-d8	10.565	98	513427	51.653	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.300%			
62) 4-Bromofluorobenzene	12.847	95	192425	53.075	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.160%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	1144	2.030	ug/l #	72
16) Acetone	4.424	43	26640	19.684	ug/l	99
18) Methyl Acetate	5.030	43	5128	1.383	ug/l	98
20) Methylene Chloride	5.283	84	10806	3.784	ug/l	85
25) 2-Butanone	7.489	43	9830	5.112	ug/l	98
29) Tetrahydrofuran	7.842	42	862	0.670	ug/l #	56
31) Cyclohexane	8.224	56	4257	0.850	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16731	4.504	ug/l #	48
38) Carbon Tetrachloride	8.218	117	21478	6.071	ug/l #	16
43) Isopropyl Acetate	8.689	43	72418	8.613	ug/l #	73
45) 1,2-Dichloropropane	9.741	63	1149	0.394	ug/l #	43
48) Methyl methacrylate	9.741	41	88321	25.716	ug/l #	41
51) 4-Methyl-2-Pentanone	10.441	43	4356	1.088	ug/l	98
54) cis-1,3-Dichloropropene	10.353	75	46479	9.456	ug/l #	55
57) 1,3-Dichloropropane	11.200	76	3990	0.842	ug/l #	43
59) 2-Hexanone	11.194	43	78155	26.311	ug/l #	46
71) Bromoform	12.847	173	960	0.440	ug/l #	1
74) N-amyl acetate	12.453	43	4541	0.674	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	93902	24.046	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93902	57.750	ug/l #	10

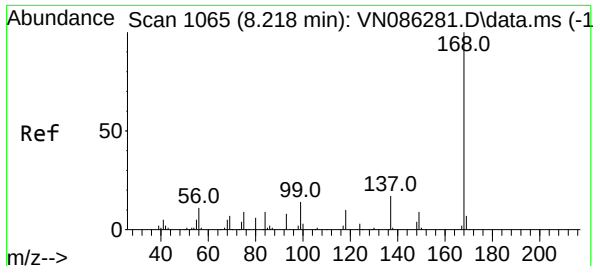
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
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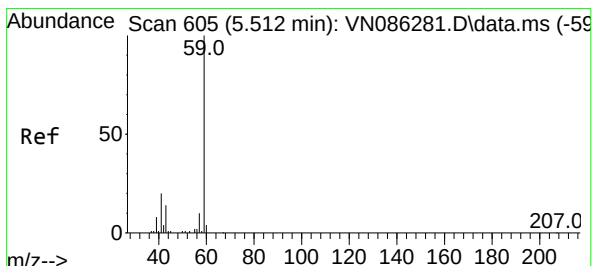
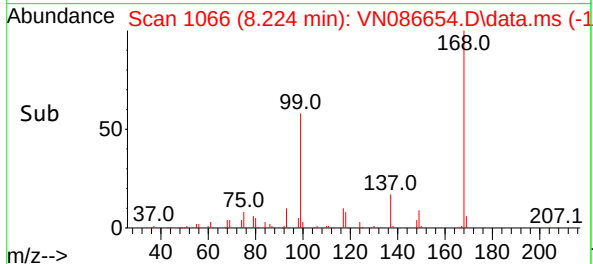
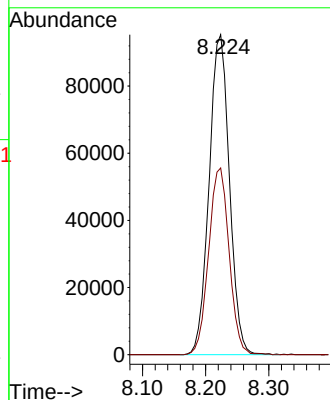
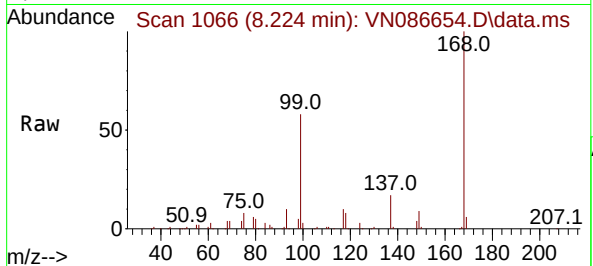




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

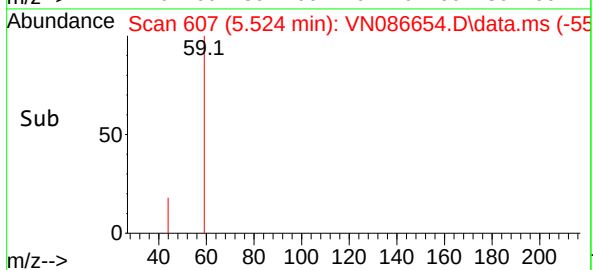
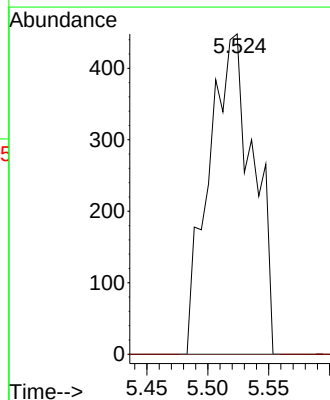
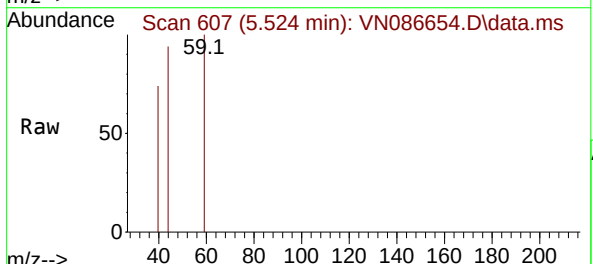
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

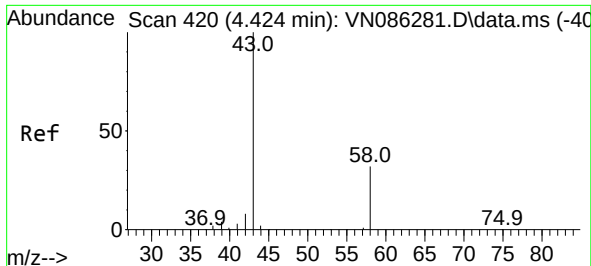
Tgt Ion:168 Resp: 213046
Ion Ratio Lower Upper
168 100
99 58.4 52.5 78.7



#11
Tert butyl alcohol
Concen: 2.030 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 59 Resp: 1144
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

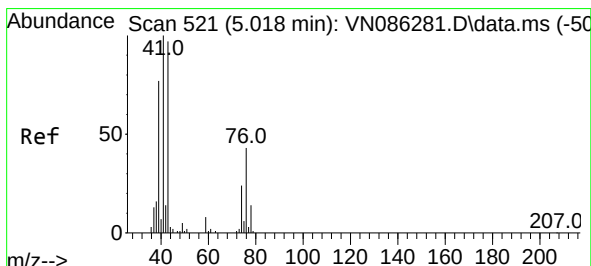
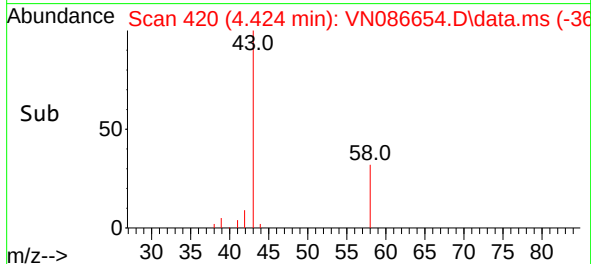
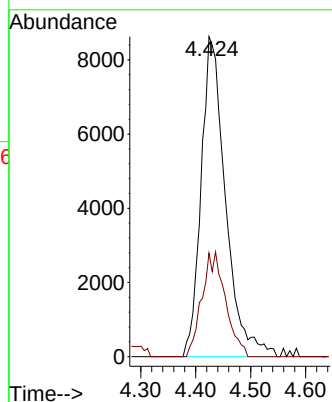
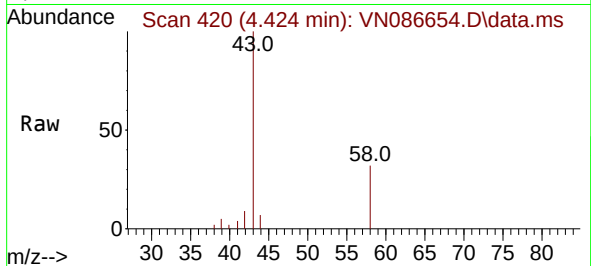




#16
Acetone
Concen: 19.684 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

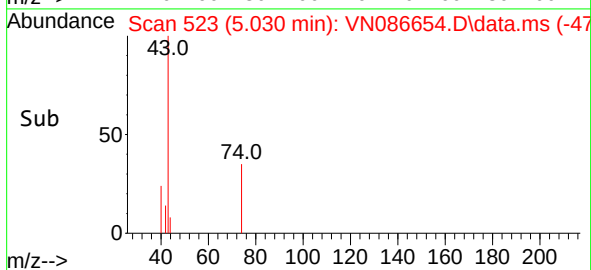
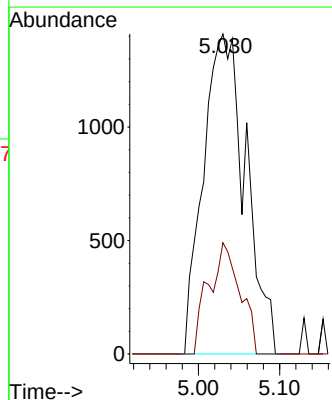
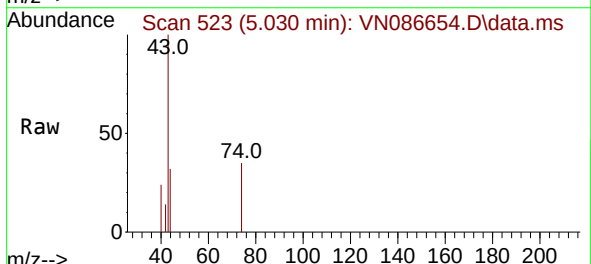
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

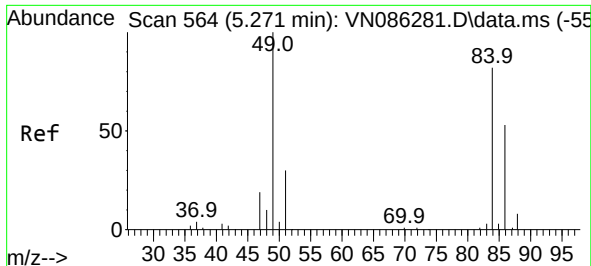
Tgt Ion: 43 Resp: 26640
Ion Ratio Lower Upper
43 100
58 32.3 25.3 37.9



#18
Methyl Acetate
Concen: 1.383 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 43 Resp: 5128
Ion Ratio Lower Upper
43 100
74 25.8 19.8 29.6

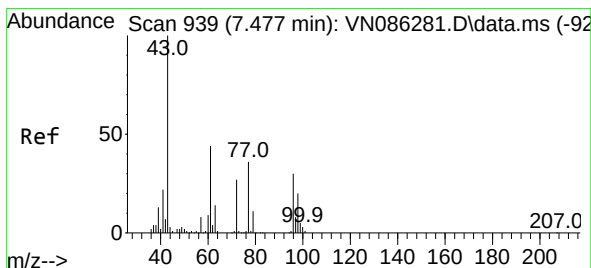
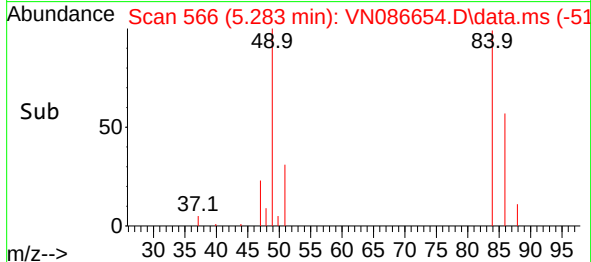
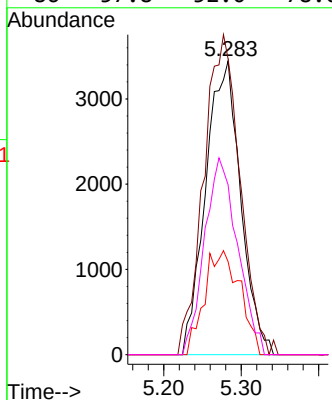
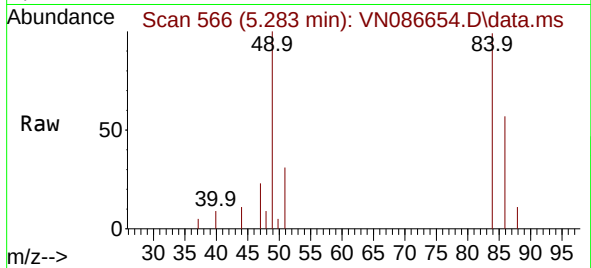




#20
Methylene Chloride
Concen: 3.784 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

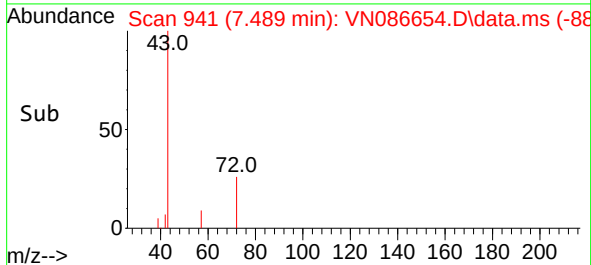
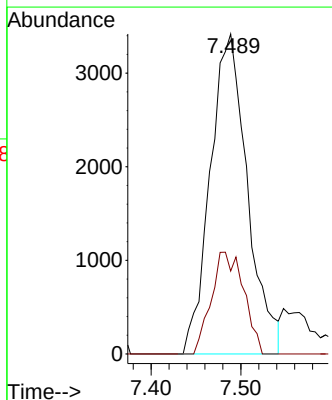
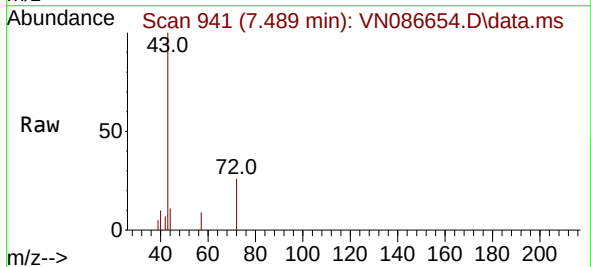
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

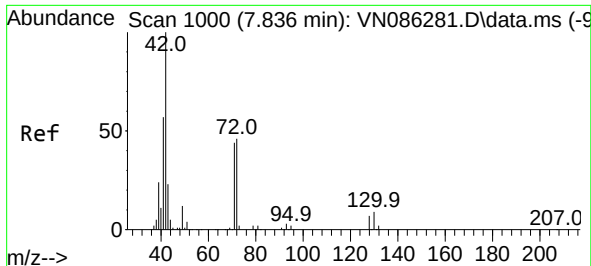
Tgt Ion: 84	Resp: 10806
Ion Ratio	Lower Upper
84 100	
49 100.7	98.2 147.2
51 31.6	29.8 44.6
86 57.8	52.0 78.0



#25
2-Butanone
Concen: 5.112 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 43	Resp: 9830
Ion Ratio	Lower Upper
43 100	
72 25.9	21.7 32.5





#29

Tetrahydrofuran

Concen: 0.670 ug/l

RT: 7.842 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086654.D

Acq: 15 May 2025 18:49

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#16

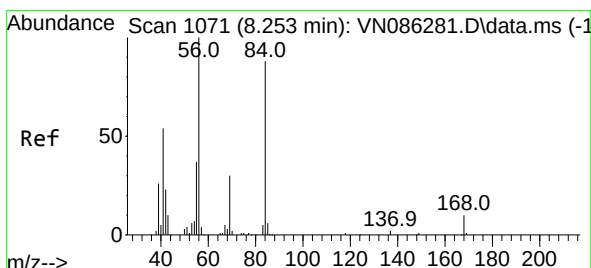
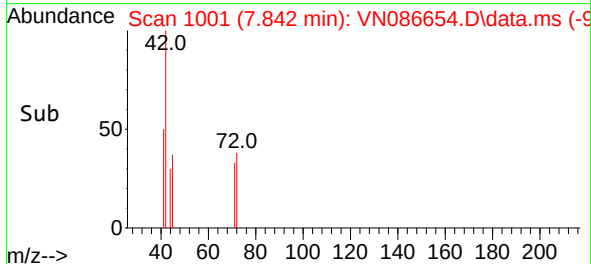
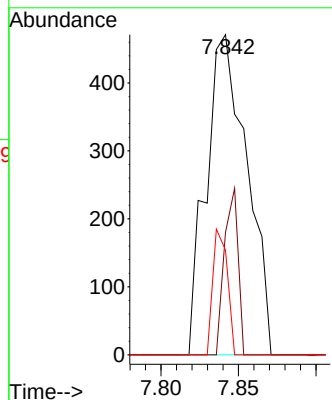
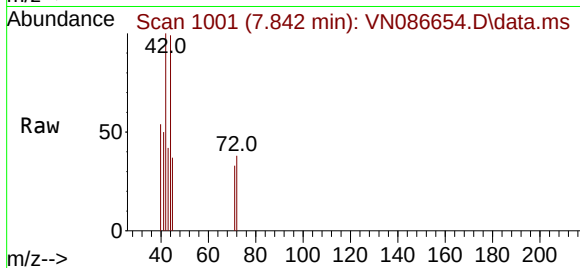
Tgt Ion: 42 Resp: 862

Ion Ratio Lower Upper

42 100

72 17.4 36.2 54.4#

71 13.9 34.0 51.0#



#31

Cyclohexane

Concen: 0.850 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086654.D

Acq: 15 May 2025 18:49

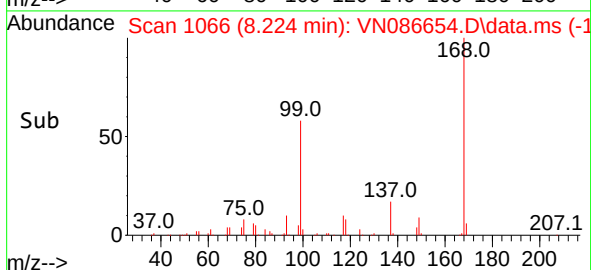
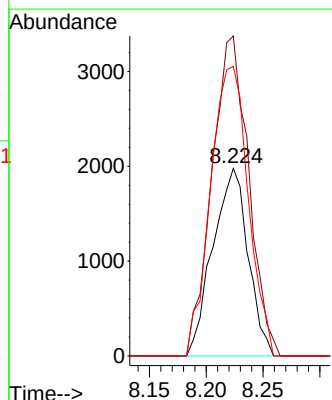
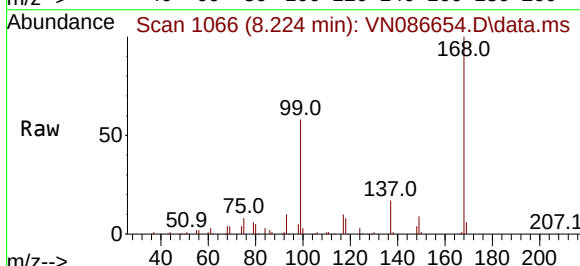
Tgt Ion: 56 Resp: 4257

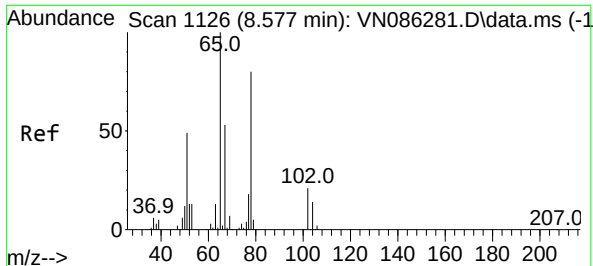
Ion Ratio Lower Upper

56 100

69 170.6 24.2 36.2#

84 154.3 70.3 105.5#

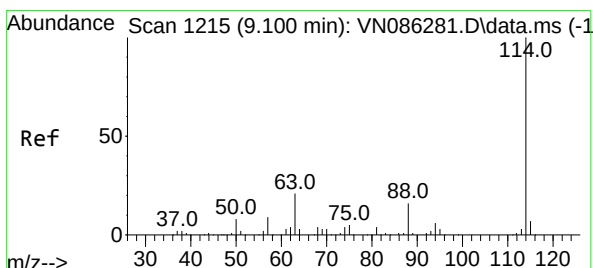
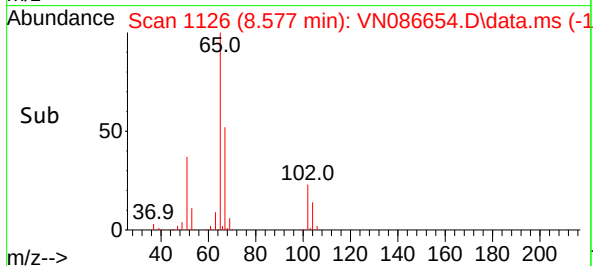
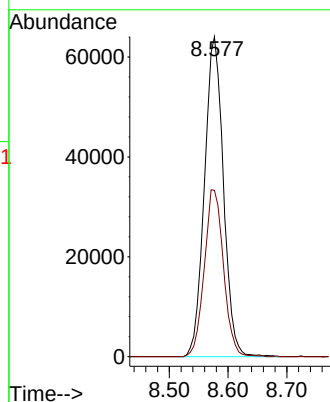
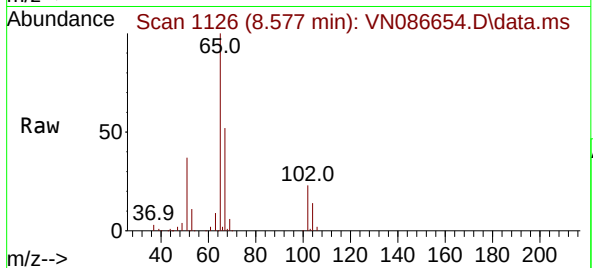




#33
 1,2-Dichloroethane-d4
 Concen: 46.506 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN086654.D
 Acq: 15 May 2025 18:49

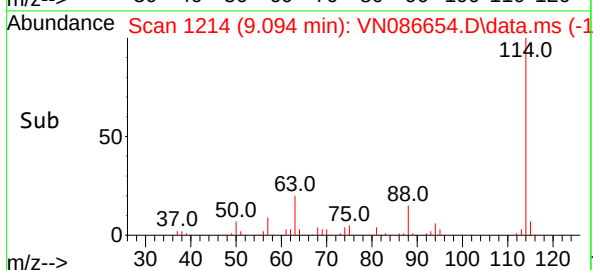
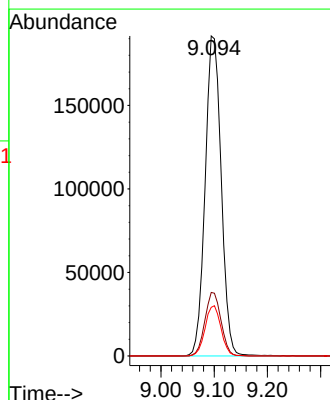
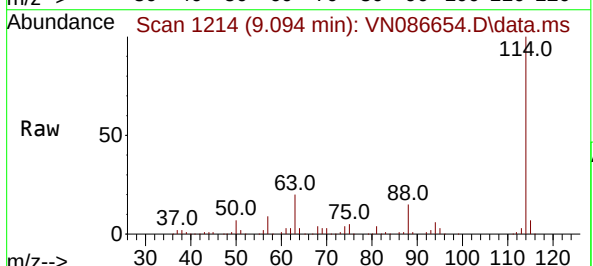
Instrument :
 MSVOA_N
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 PB167995ZHE#16

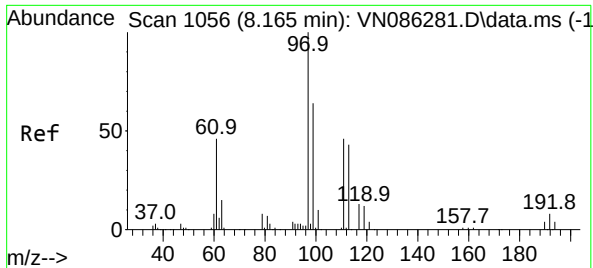
Tgt Ion: 65 Resp: 143675
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. -0.006 min
 Lab File: VN086654.D
 Acq: 15 May 2025 18:49

Tgt Ion: 114 Resp: 400733
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.6
 88 15.2 0.0 31.8

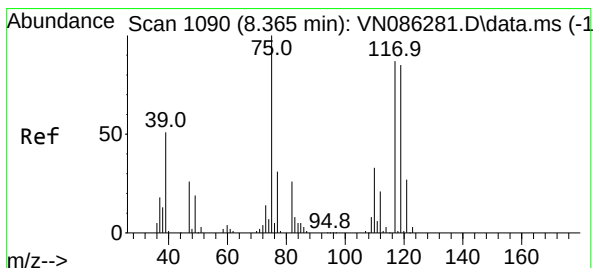
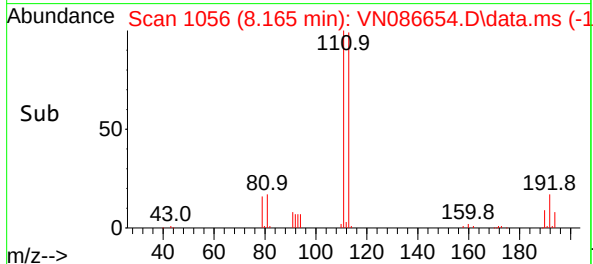
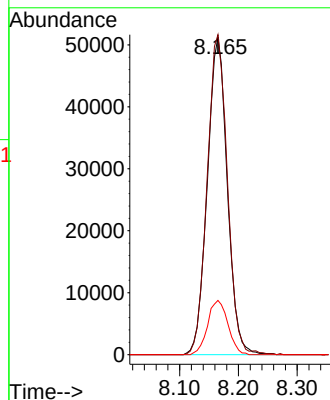
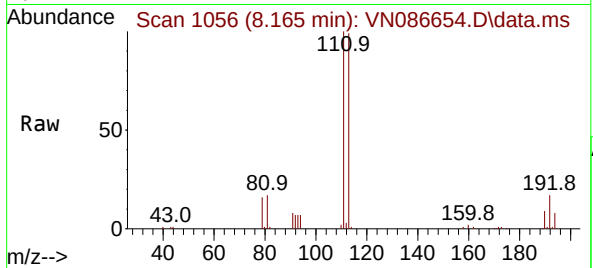




#35
Dibromofluoromethane
Concen: 65.168 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

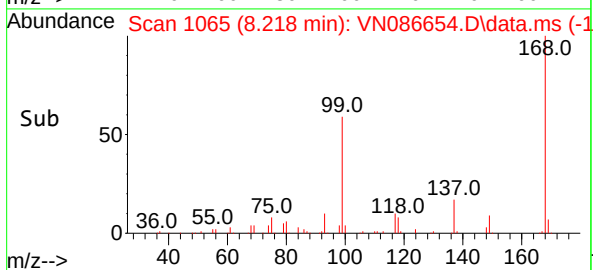
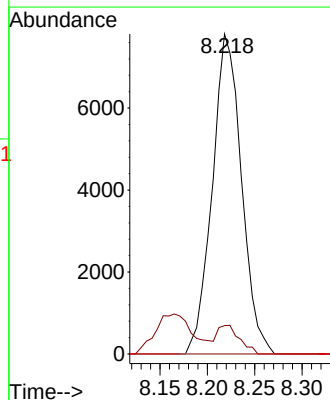
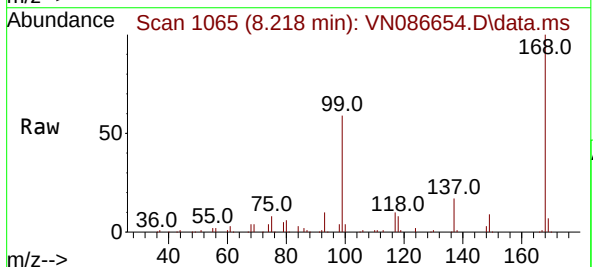
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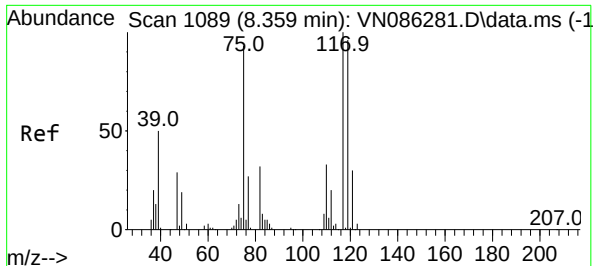
Tgt Ion:113 Resp: 121203
Ion Ratio Lower Upper
113 100
111 101.7 83.4 125.0
192 17.4 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.504 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

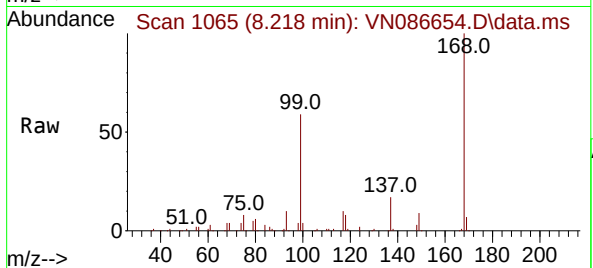
Tgt Ion: 75 Resp: 16731
Ion Ratio Lower Upper
75 100
110 6.7 16.8 50.4#
77 0.0 24.9 37.3#



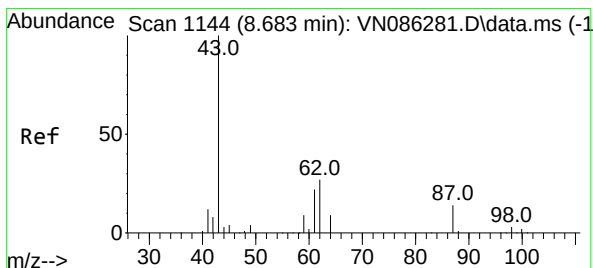
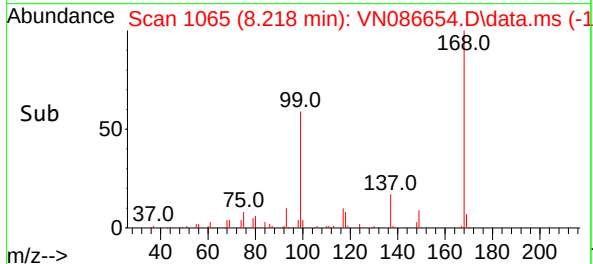
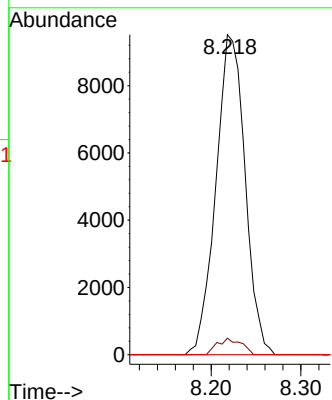


#38
Carbon Tetrachloride
Concen: 6.071 ug/l
RT: 8.218 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

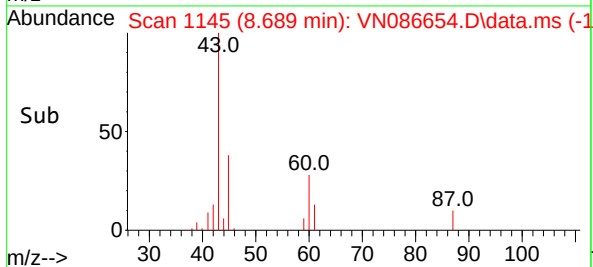
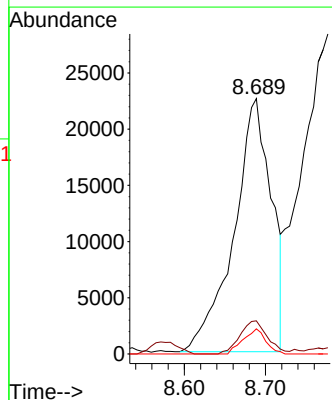
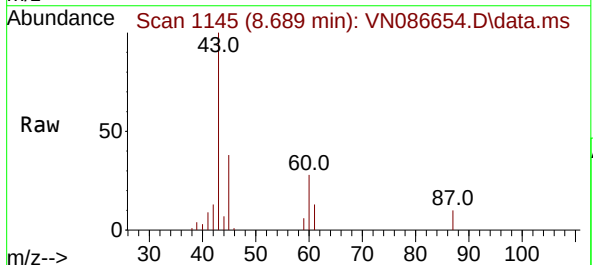


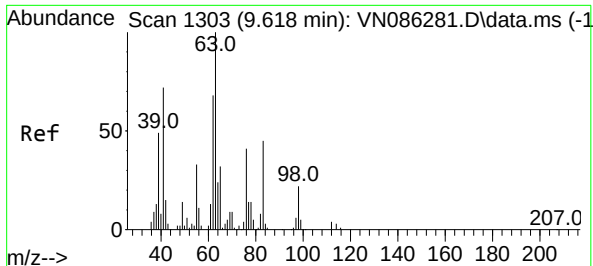
Tgt Ion:117 Resp: 21478
Ion Ratio Lower Upper
117 100
119 5.2 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 8.613 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 43 Resp: 72418
Ion Ratio Lower Upper
43 100
61 9.7 20.5 30.7#
87 6.0 10.5 15.7#

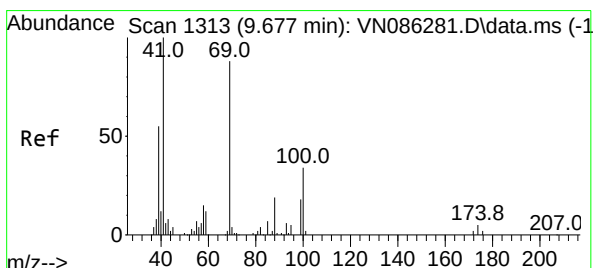
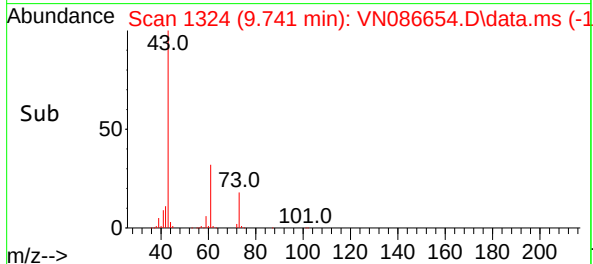
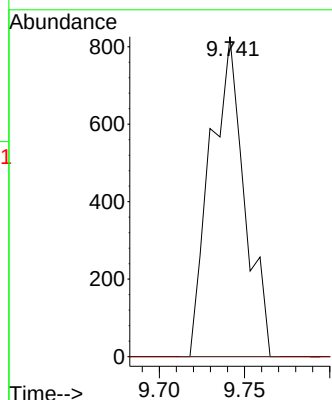
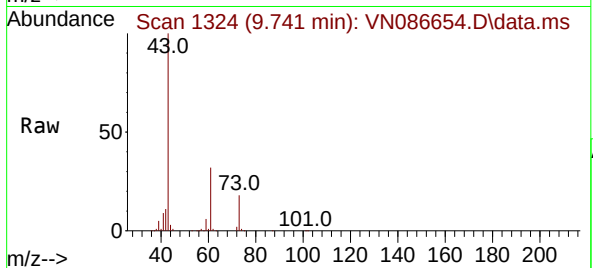




#45
1,2-Dichloropropane
Concen: 0.394 ug/l
RT: 9.741 min Scan# 1149
Delta R.T. 0.124 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

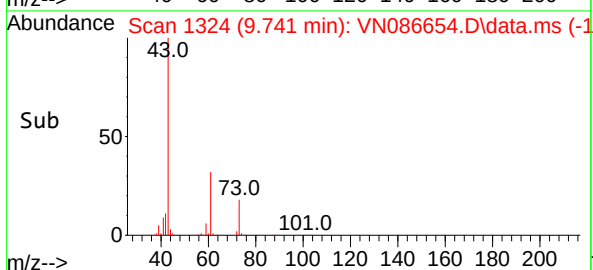
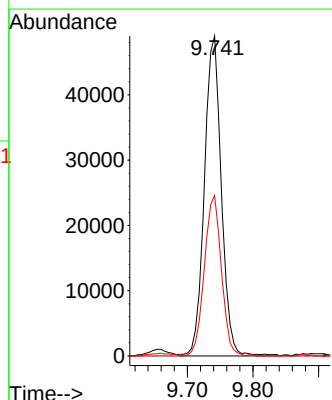
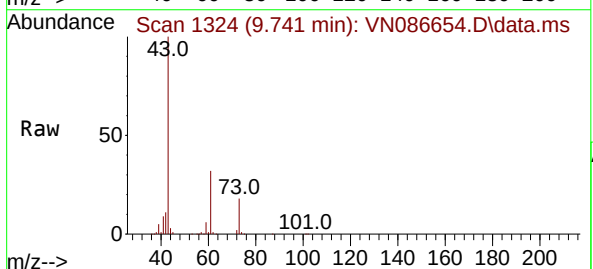
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

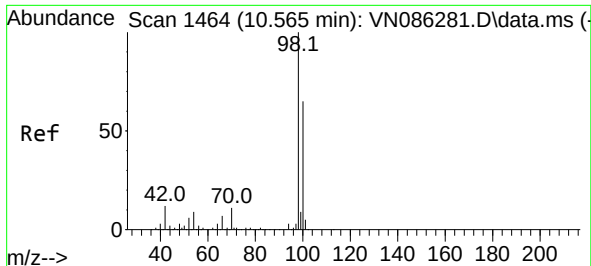
Tgt Ion: 63 Resp: 1149
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#



#48
Methyl methacrylate
Concen: 25.716 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 41 Resp: 88321
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 50.3 45.2 67.8

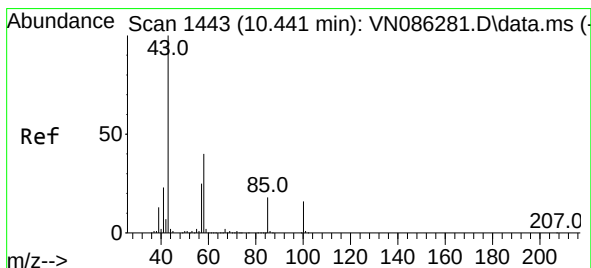
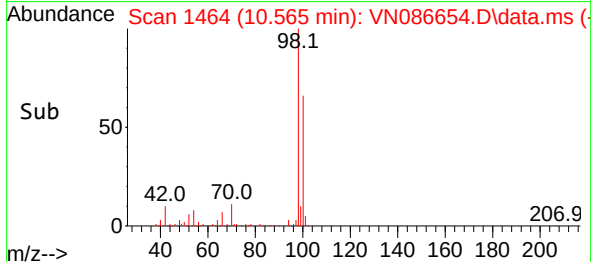
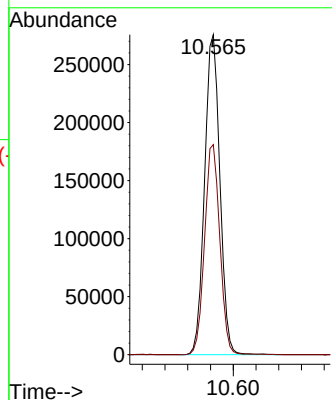
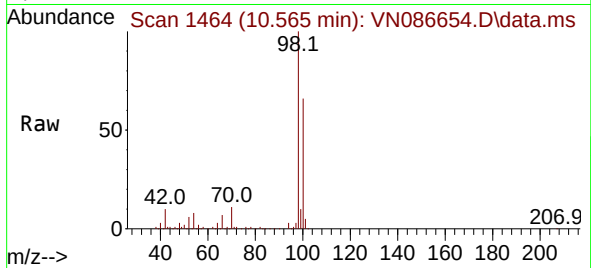




#50
Toluene-d8
Concen: 51.653 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

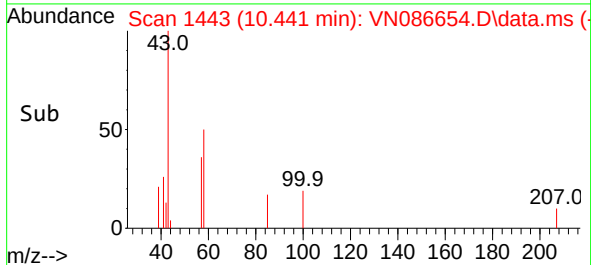
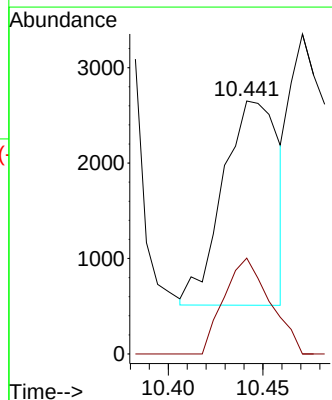
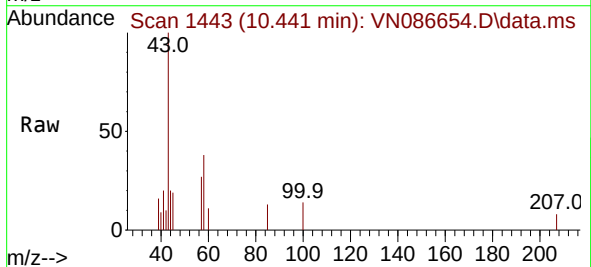
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

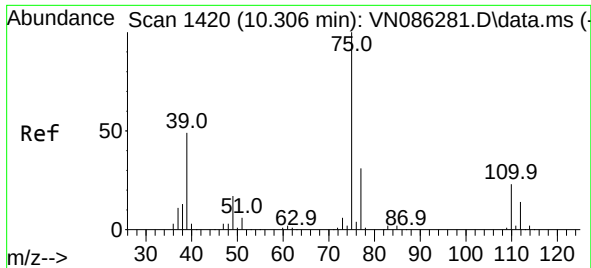
Tgt Ion: 98 Resp: 513427
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.088 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 43 Resp: 4356
Ion Ratio Lower Upper
43 100
58 39.0 32.2 48.4

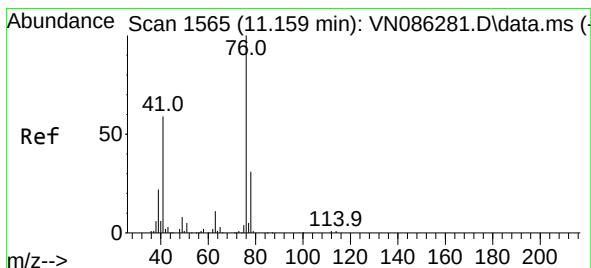
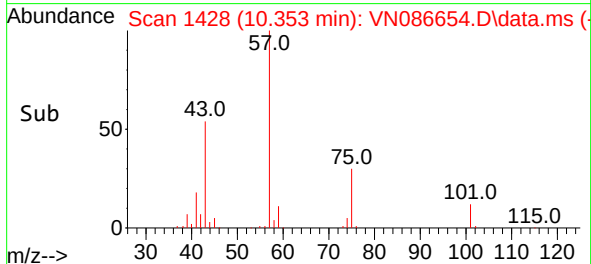
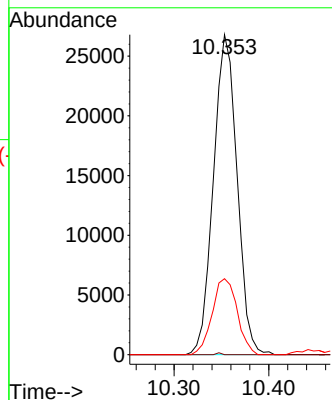
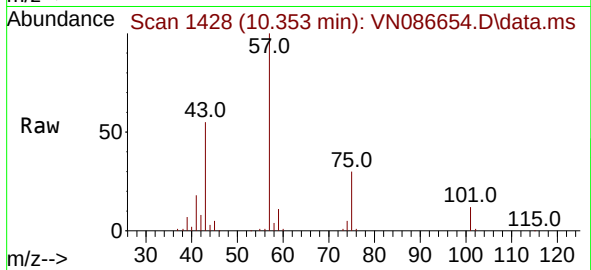




#54
 cis-1,3-Dichloropropene
 Concen: 9.456 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086654.D
 Acq: 15 May 2025 18:49

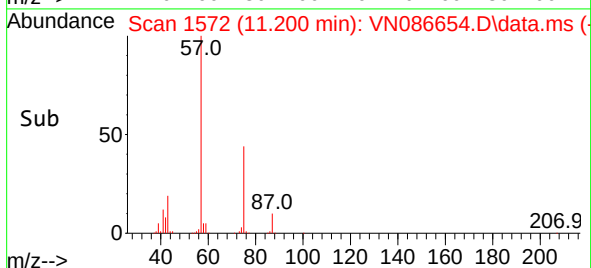
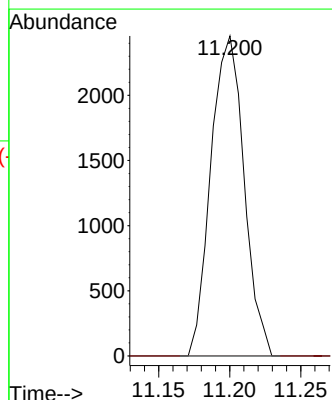
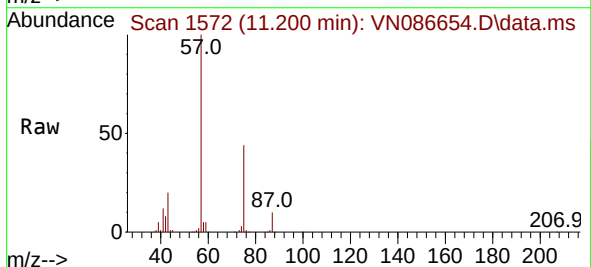
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#16

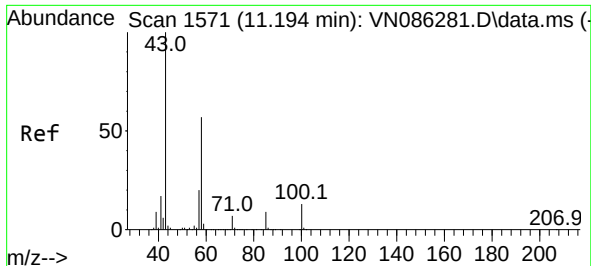
Tgt Ion: 75 Resp: 46479
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 23.7 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.842 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086654.D
 Acq: 15 May 2025 18:49

Tgt Ion: 76 Resp: 3990
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

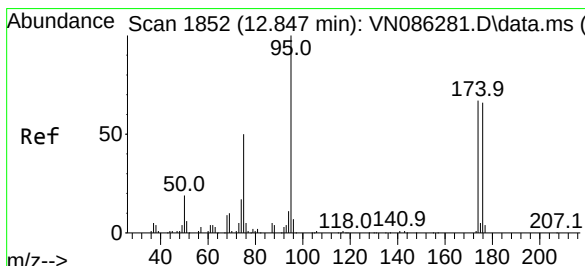
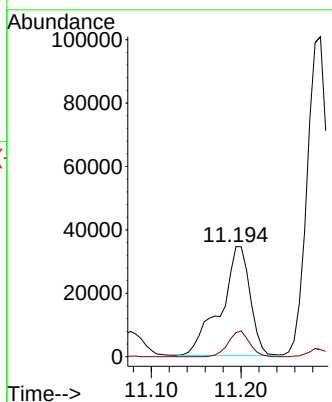
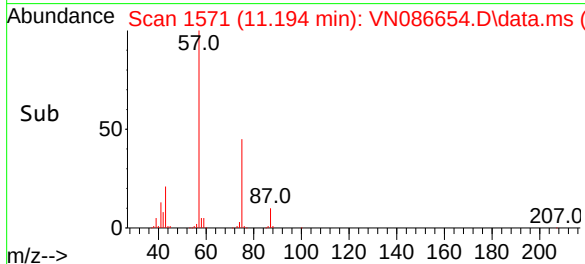
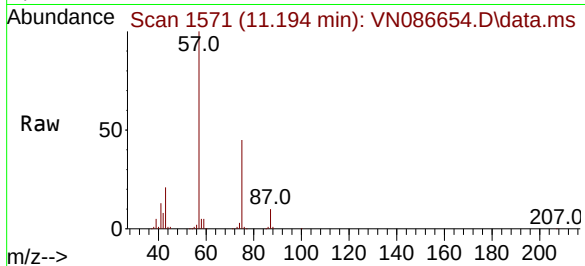




#59
2-Hexanone
Concen: 26.311 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

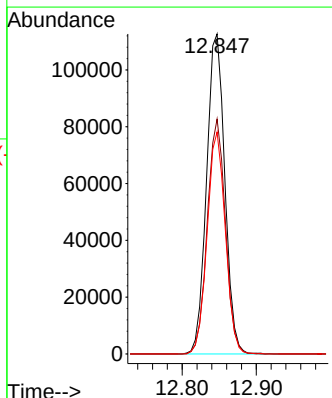
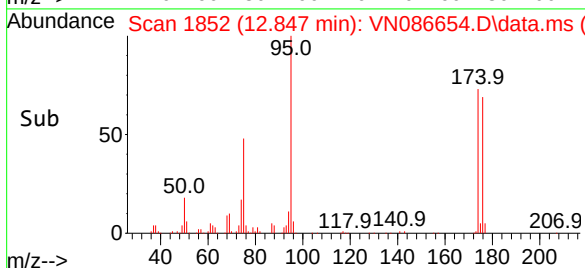
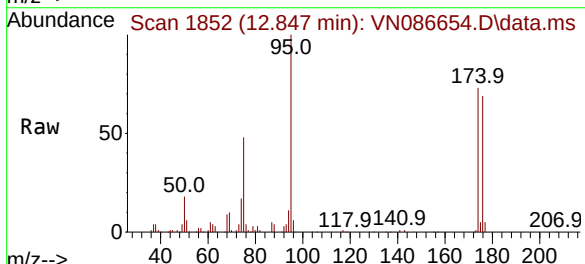
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

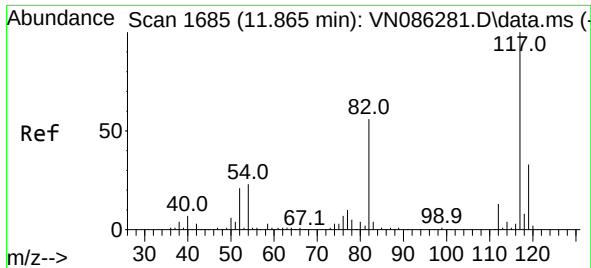
Tgt Ion: 43 Resp: 78155
Ion Ratio Lower Upper
43 100
58 17.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 53.075 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 95 Resp: 192425
Ion Ratio Lower Upper
95 100
174 72.9 0.0 133.4
176 69.0 0.0 129.2

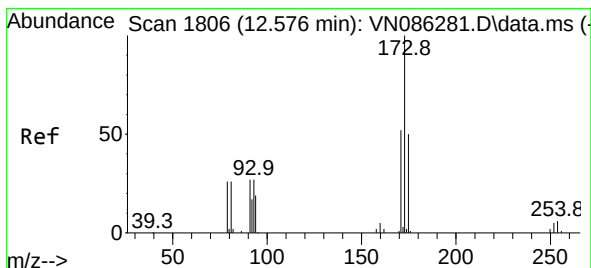
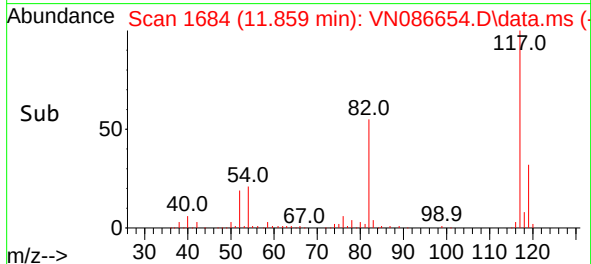
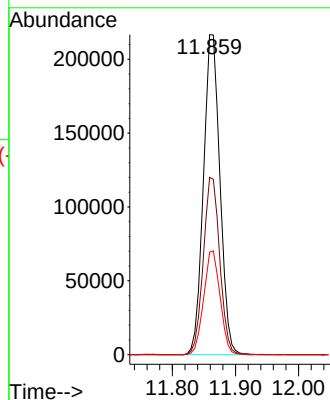
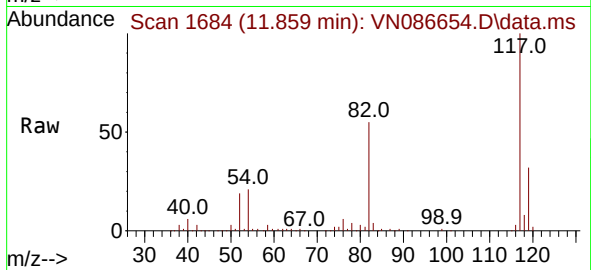




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

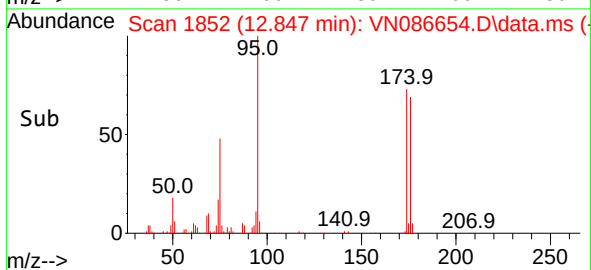
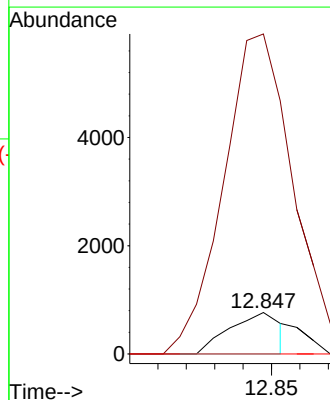
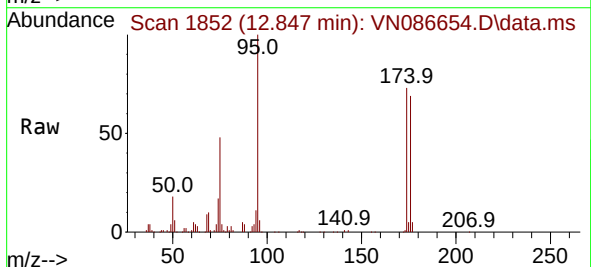
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

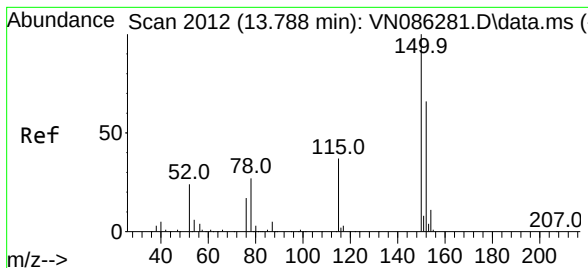
Tgt Ion:117 Resp: 393199
Ion Ratio Lower Upper
117 100
82 55.4 44.7 67.1
119 32.0 26.4 39.6



#71
Bromoform
Concen: 0.440 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion:173 Resp: 960
Ion Ratio Lower Upper
173 100
175 866.4 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# 20

Delta R.T. 0.000 min

Lab File: VN086654.D

Acq: 15 May 2025 18:49

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#16

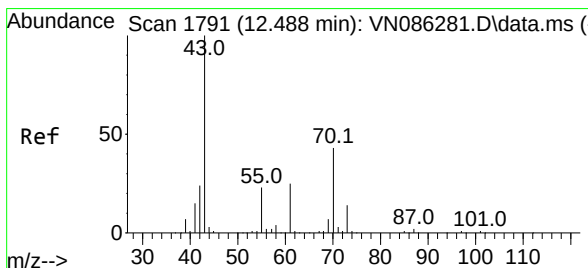
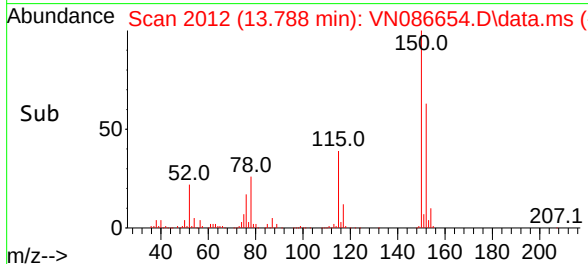
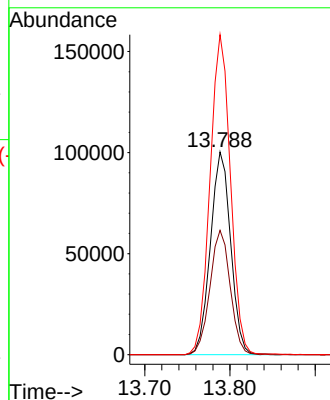
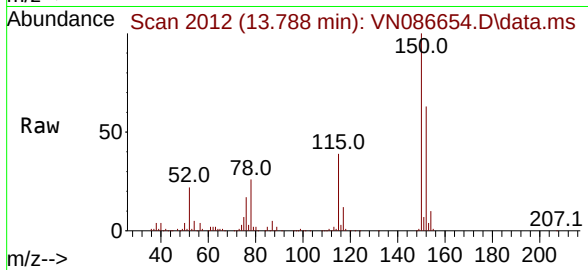
Tgt Ion:152 Resp: 165479

Ion Ratio Lower Upper

152 100

115 61.5 31.9 95.9

150 158.6 0.0 352.0



#74

N-ethyl acetate

Concen: 0.674 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086654.D

Acq: 15 May 2025 18:49

Tgt Ion: 43 Resp: 4541

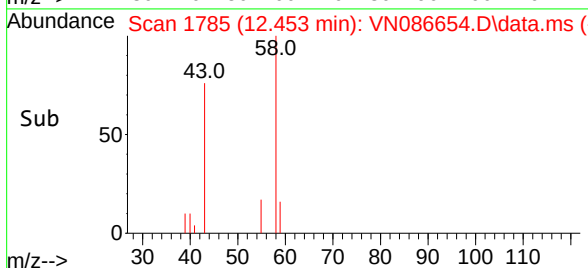
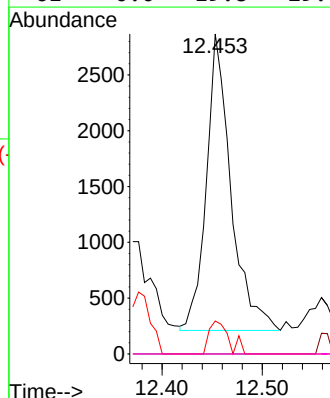
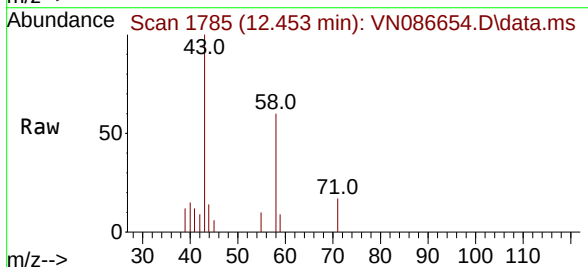
Ion Ratio Lower Upper

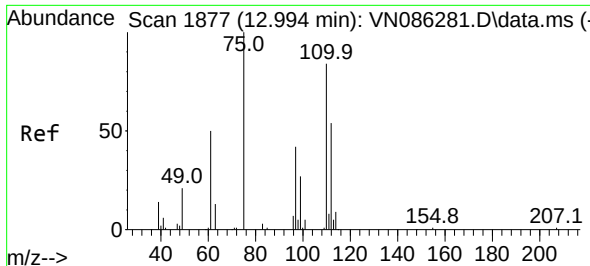
43 100

70 0.0 35.0 52.4#

55 8.8 19.0 28.4#

61 0.0 19.8 29.8#

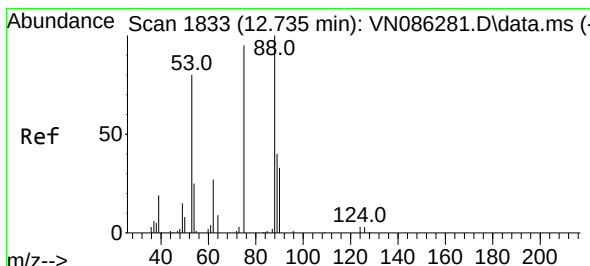
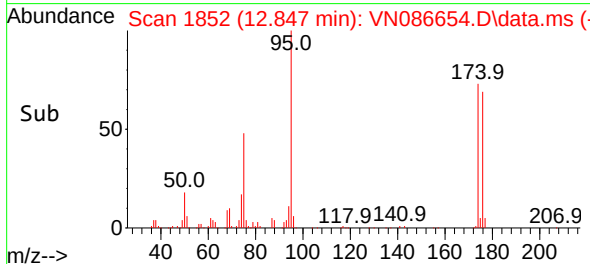
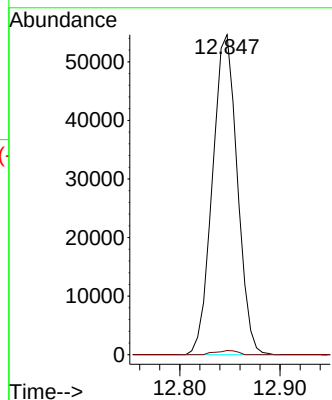
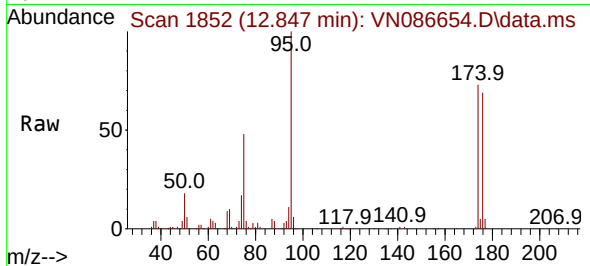




#76
1,2,3-Trichloropropane
Concen: 24.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#16

Tgt Ion: 75 Resp: 93902
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.750 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086654.D
Acq: 15 May 2025 18:49

Tgt Ion: 75 Resp: 93902
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

