

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086653.D
 Acq On : 15 May 2025 18:25
 Operator : JC\MD
 Sample : PB167995ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#15

Quant Time: May 16 05:32:16 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)

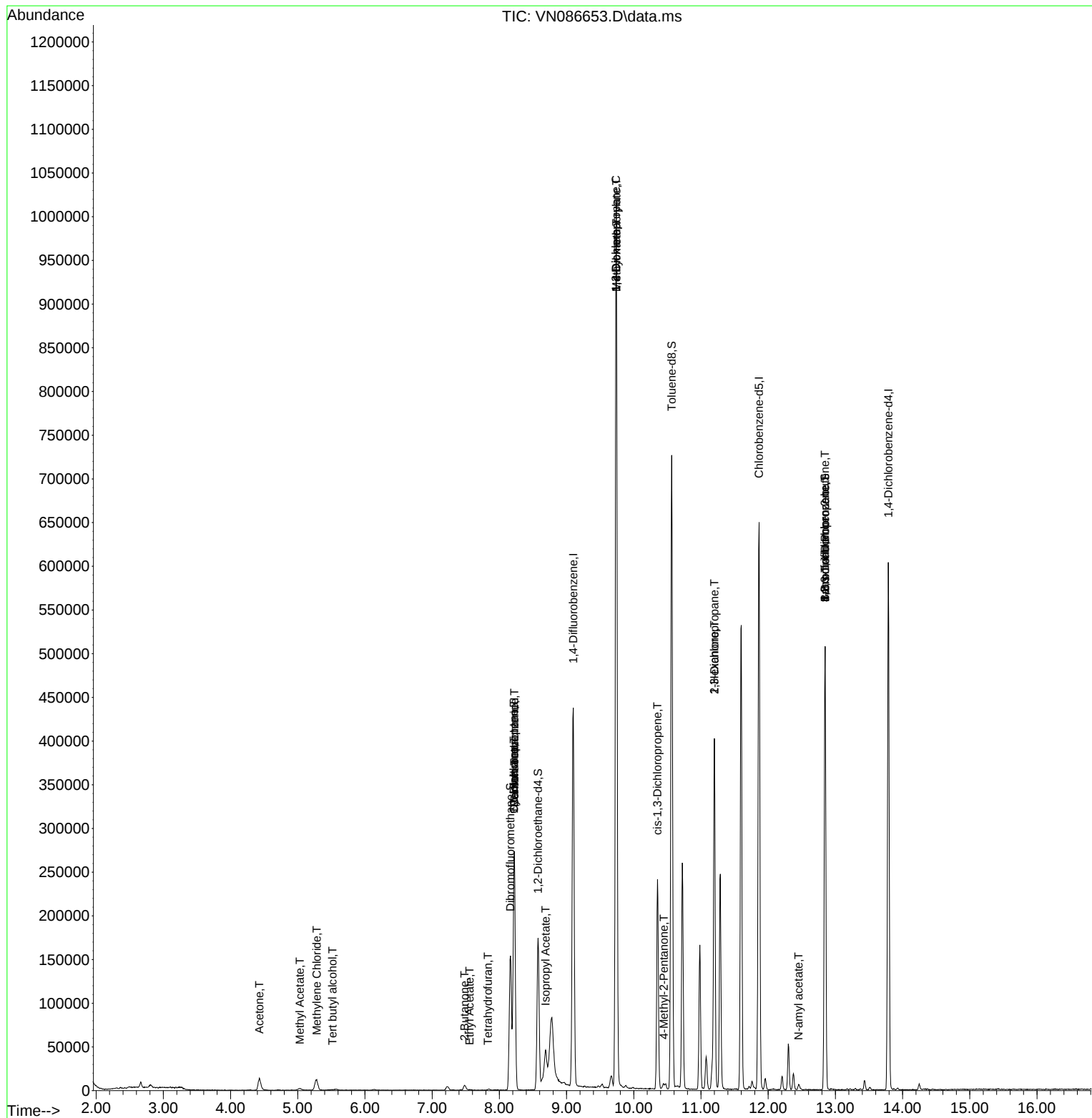
Internal Standards						
1) Pentafluorobenzene	8.224	168	206885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	394365	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167119	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144046	48.015	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.040%			
35) Dibromofluoromethane	8.165	113	118357	64.665	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 129.340%#			
50) Toluene-d8	10.565	98	507089	51.839	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.680%			
62) 4-Bromofluorobenzene	12.847	95	183996	51.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.140%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	1145	2.092	ug/l #	72
13) Acrolein	4.177	56	59	Below Cal	#	13
16) Acetone	4.430	43	26027	19.839	ug/l	92
18) Methyl Acetate	5.030	43	4922	1.367	ug/l	95
20) Methylene Chloride	5.283	84	10830	3.905	ug/l #	84
25) 2-Butanone	7.483	43	10011	5.361	ug/l	98
29) Tetrahydrofuran	7.830	42	275	0.220	ug/l #	80
31) Cyclohexane	8.218	56	4277	0.880	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16841	4.607	ug/l #	49
37) Ethyl Acetate	7.559	43	895	0.233	ug/l #	68
38) Carbon Tetrachloride	8.224	117	20646	5.930	ug/l #	17
43) Isopropyl Acetate	8.688	43	66052	7.842	ug/l #	74
45) 1,2-Dichloropropane	9.735	63	1278	0.446	ug/l #	43
48) Methyl methacrylate	9.741	41	88915	26.307	ug/l #	41
49) 1,4-Dioxane	9.741	88	57	0.991	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	3898	0.989	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	47486	9.816	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	4079	0.874	ug/l #	43
59) 2-Hexanone	11.200	43	78647	26.904	ug/l #	46
71) Bromoform	12.847	173	898	0.415	ug/l #	1
74) N-amyl acetate	12.453	43	5159	0.758	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	92241	23.389	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	92241	56.172	ug/l #	10

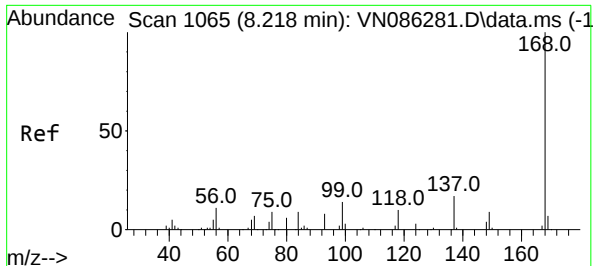
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

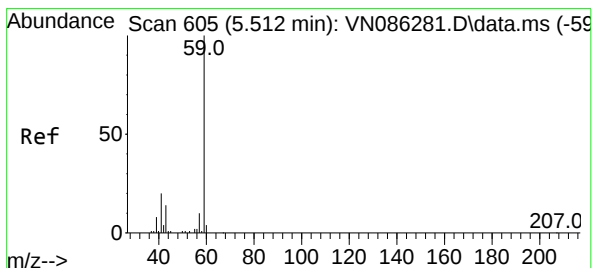
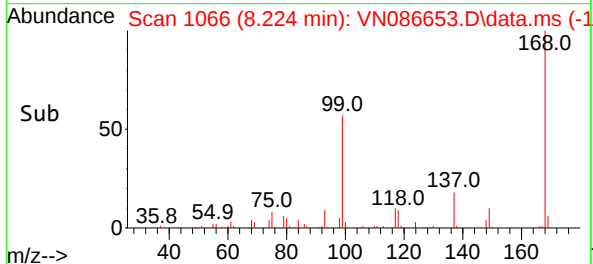
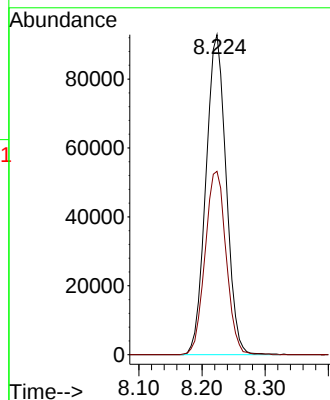
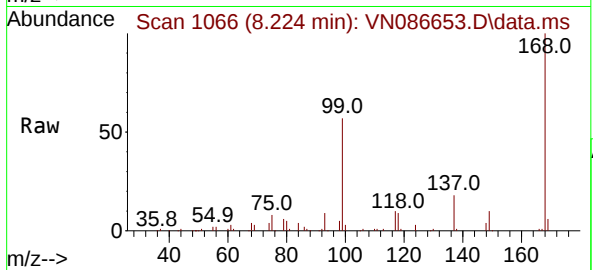




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

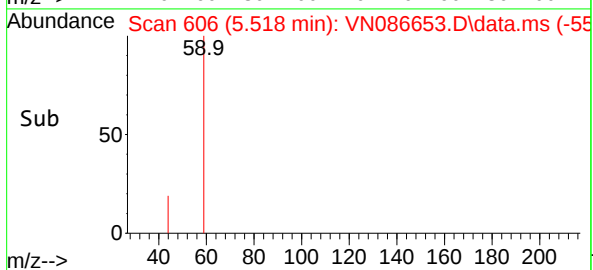
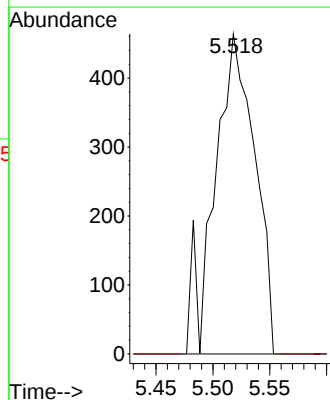
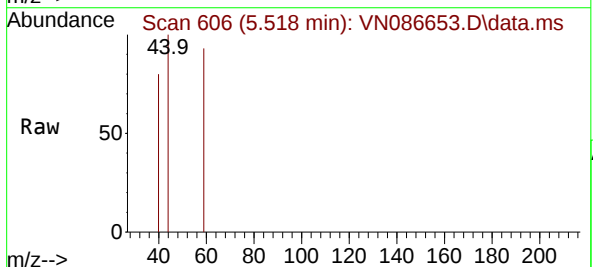
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

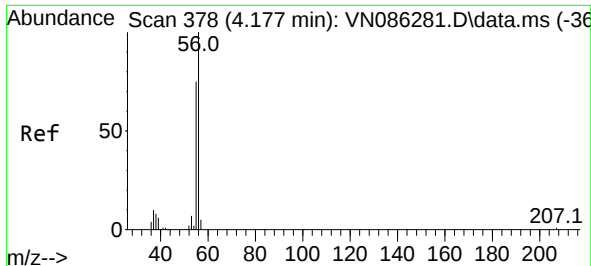
Tgt Ion:168 Resp: 206885
Ion Ratio Lower Upper
168 100
99 57.3 52.5 78.7



#11
Tert butyl alcohol
Concen: 2.092 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 59 Resp: 1145
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

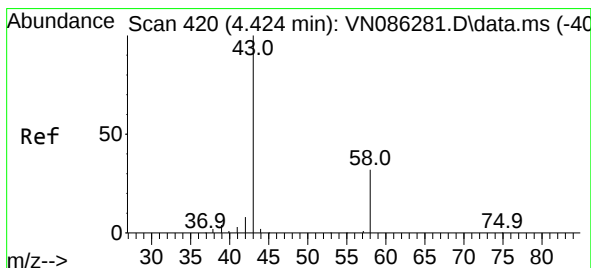
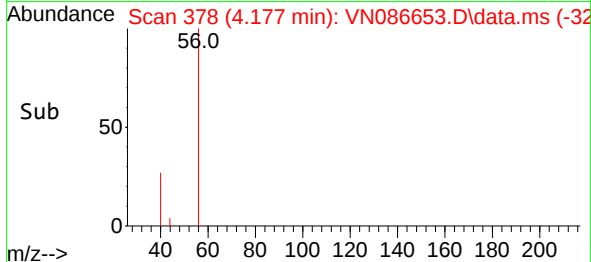
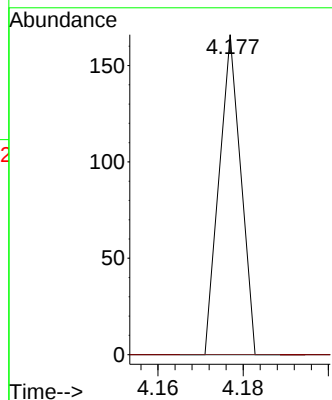
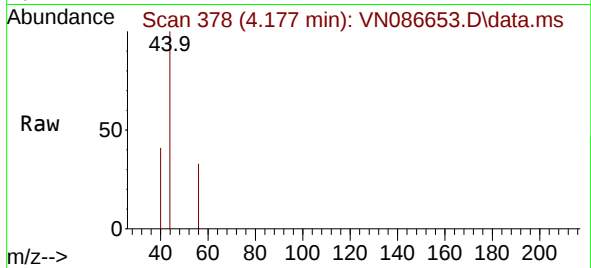




#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

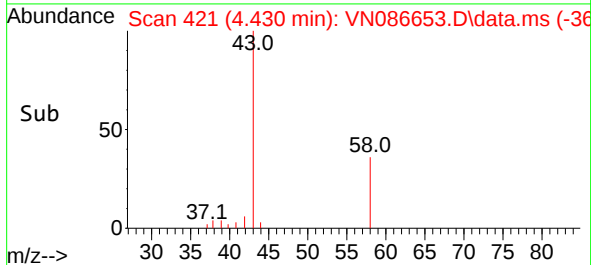
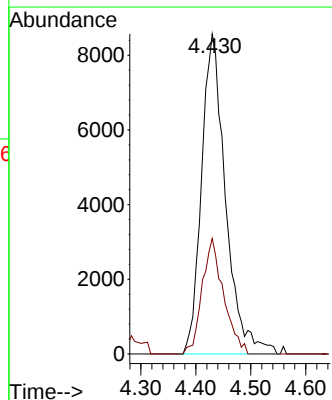
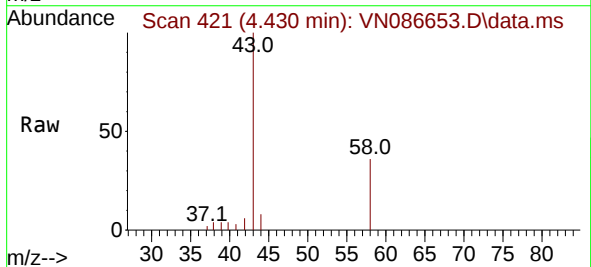
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#



#16
Acetone
Concen: 19.839 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 43 Resp: 26027
Ion Ratio Lower Upper
43 100
58 36.0 25.3 37.9

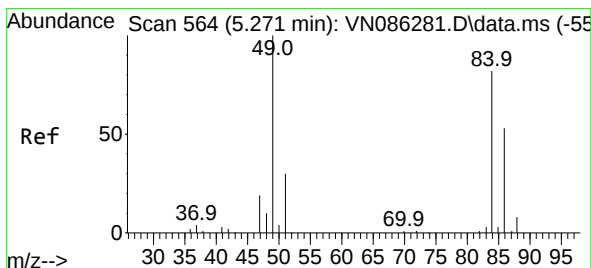
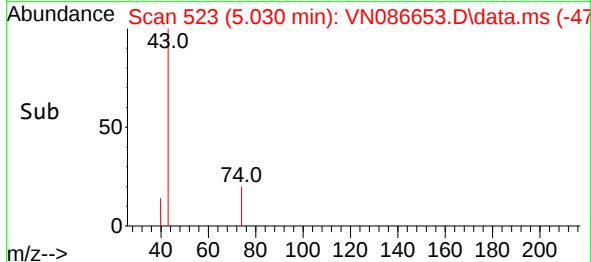
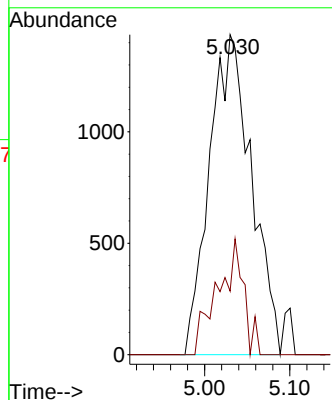
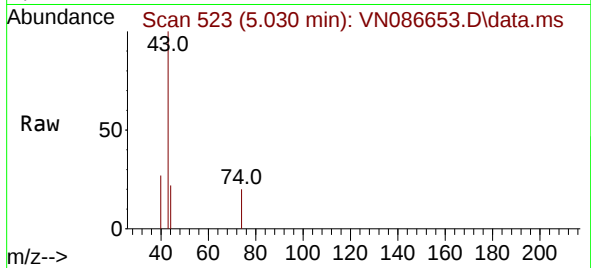




#18
Methyl Acetate
Concen: 1.367 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

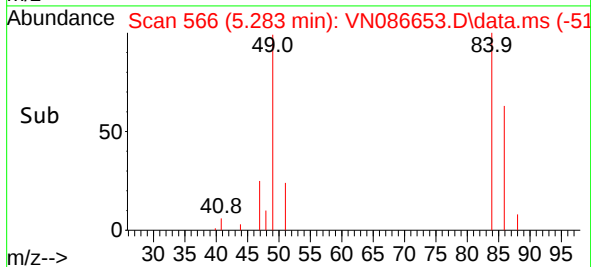
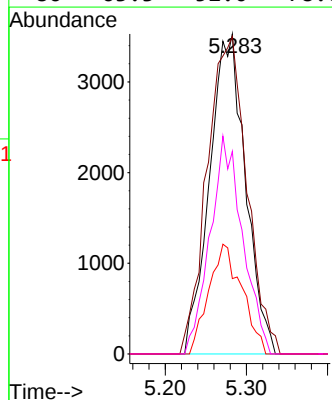
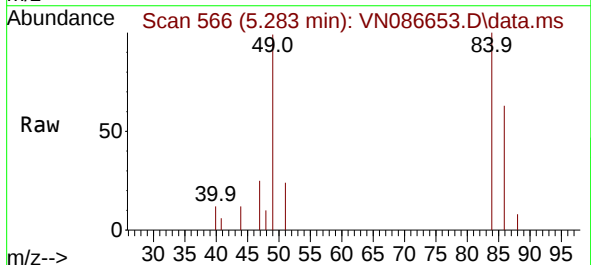
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

Tgt Ion: 43 Resp: 4922
Ion Ratio Lower Upper
43 100
74 22.4 19.8 29.6



#20
Methylene Chloride
Concen: 3.905 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 84 Resp: 10830
Ion Ratio Lower Upper
84 100
49 99.3 98.2 147.2
51 23.5 29.8 44.6#
86 63.3 52.0 78.0

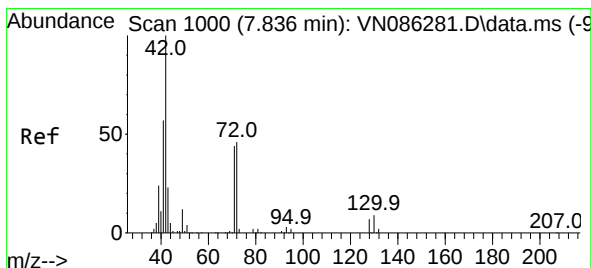
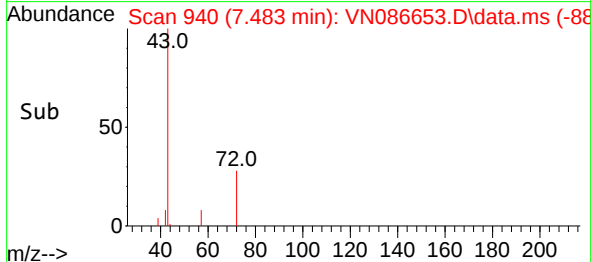
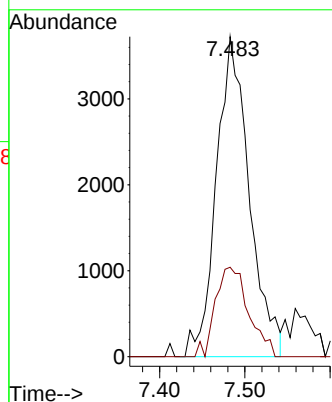
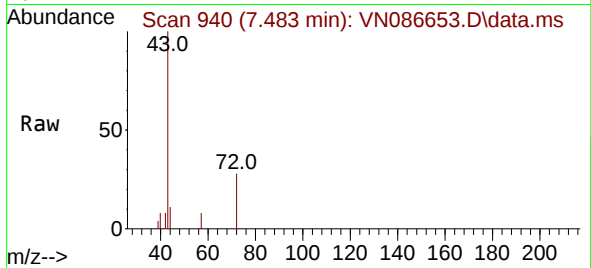




#25
2-Butanone
Concen: 5.361 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

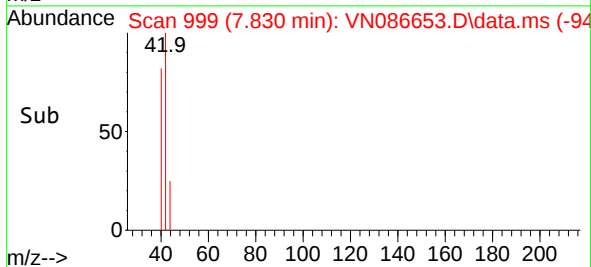
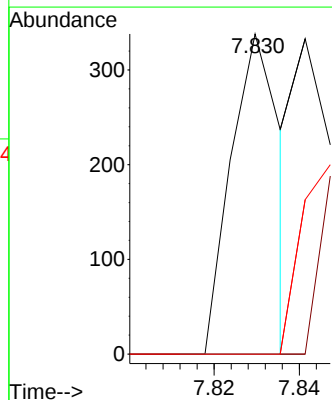
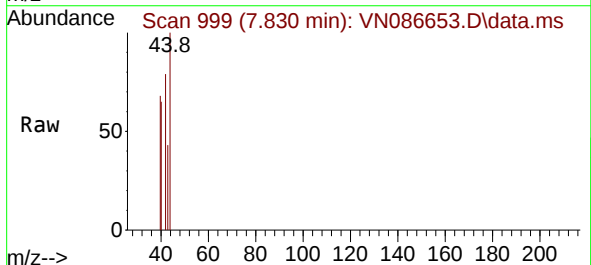
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

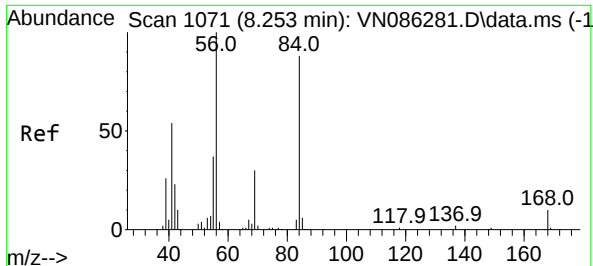
Tgt Ion: 43 Resp: 10011
Ion Ratio Lower Upper
43 100
72 28.0 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.220 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 42 Resp: 275
Ion Ratio Lower Upper
42 100
72 24.0 36.2 54.4#
71 46.5 34.0 51.0

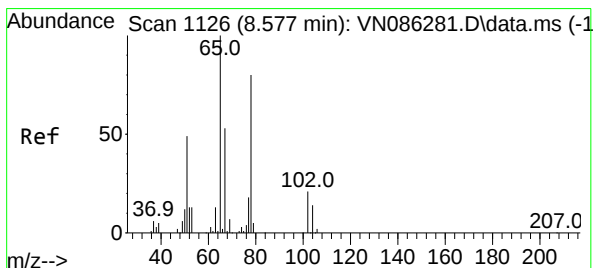
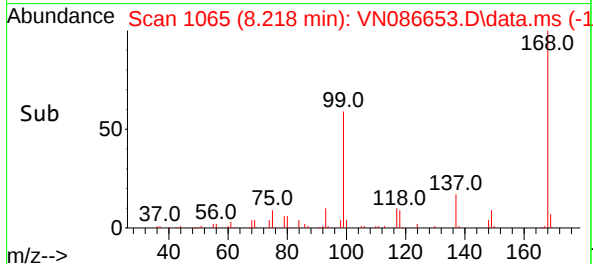
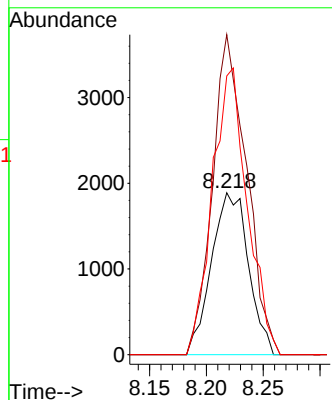
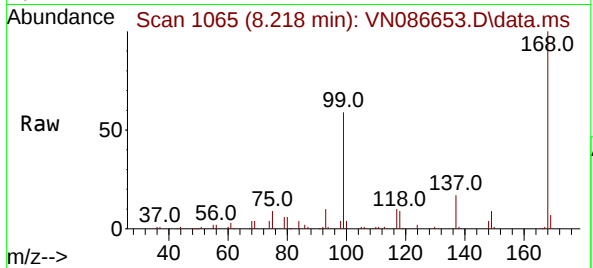




#31
Cyclohexane
Concen: 0.880 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

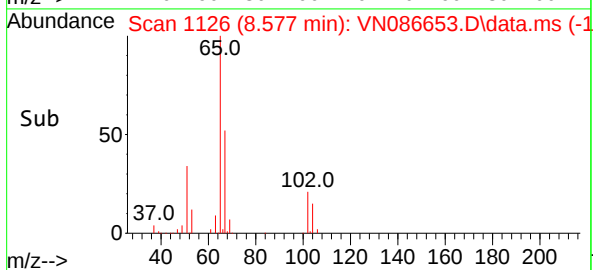
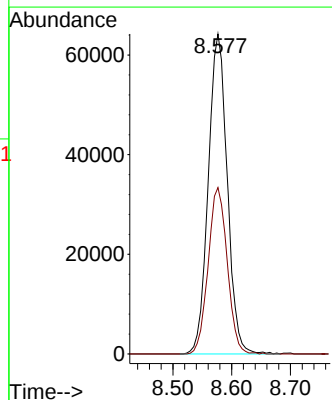
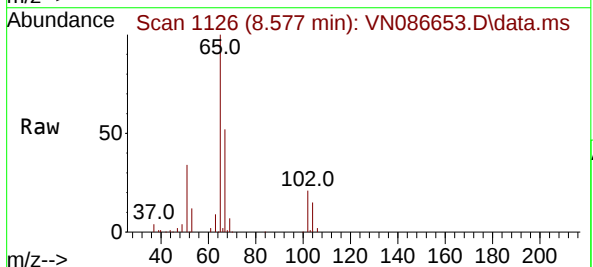
Instrument :
MSVOA_N
ClientSampleId :
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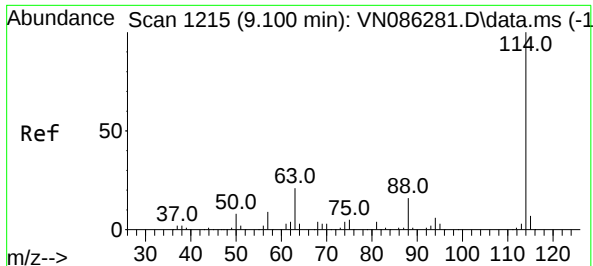
Tgt Ion: 56 Resp: 4277
Ion Ratio Lower Upper
56 100
69 197.7 24.2 36.2#
84 172.2 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.015 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 65 Resp: 144046
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#15

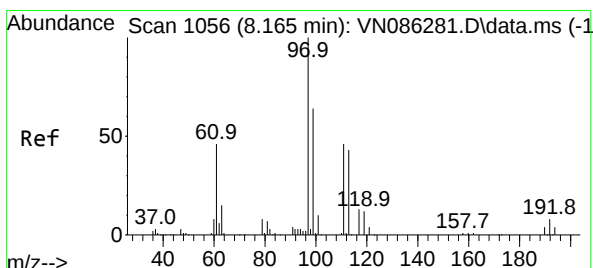
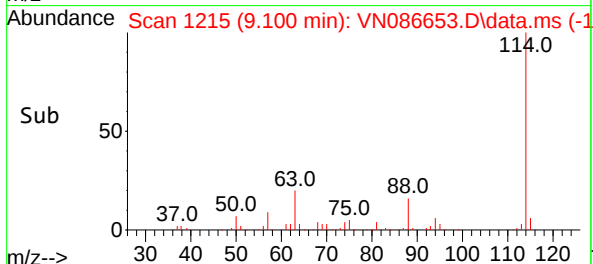
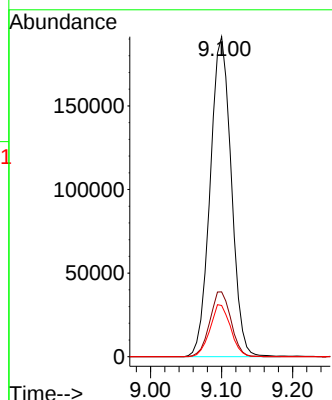
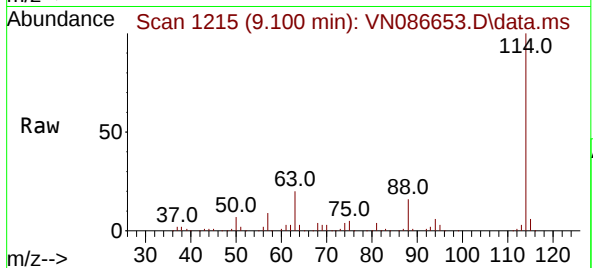
Tgt Ion:114 Resp: 394365

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 64.665 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

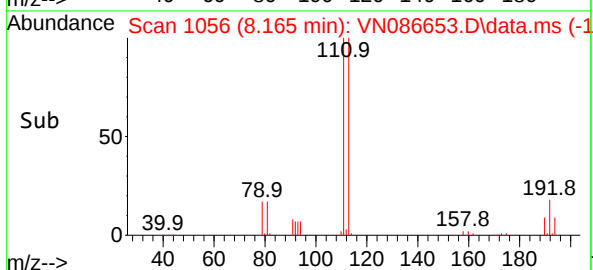
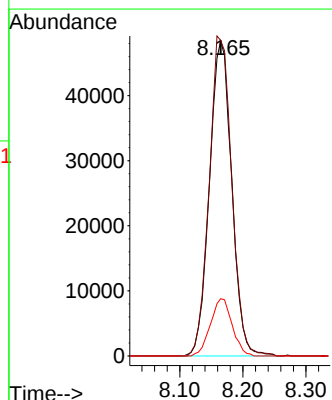
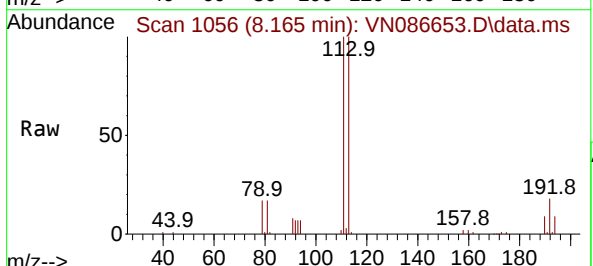
Tgt Ion:113 Resp: 118357

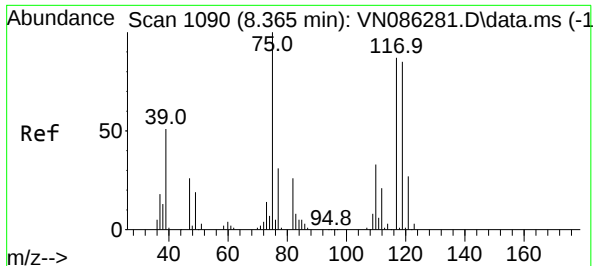
Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

192 17.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.607 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

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MSVOA_N

ClientSampleId :

PB167995ZHE#15

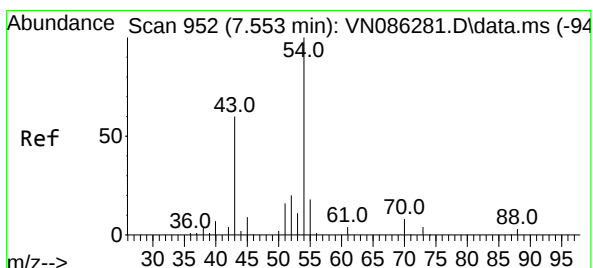
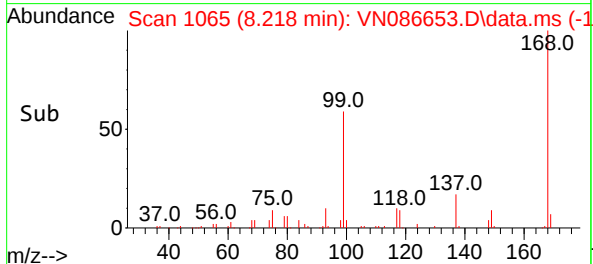
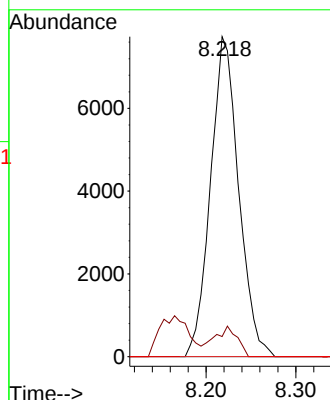
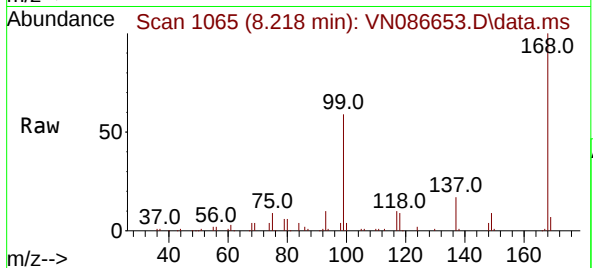
Tgt Ion: 75 Resp: 16841

Ion Ratio Lower Upper

75 100

110 7.9 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.233 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

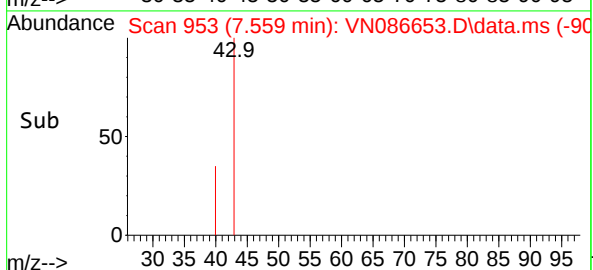
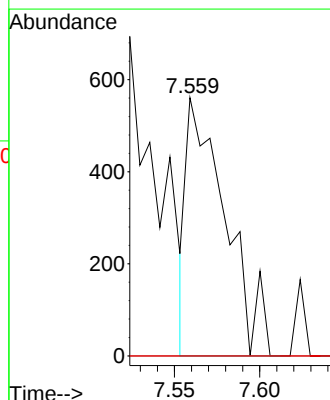
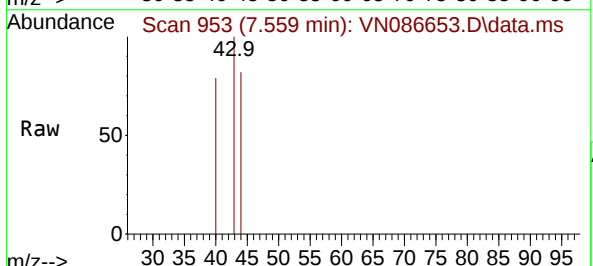
Tgt Ion: 43 Resp: 895

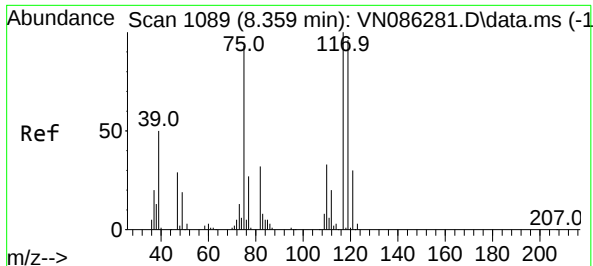
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

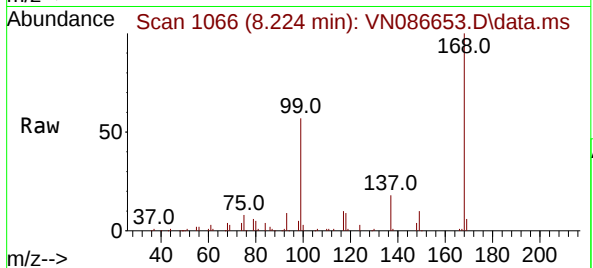
70 0.0 9.2 13.8#



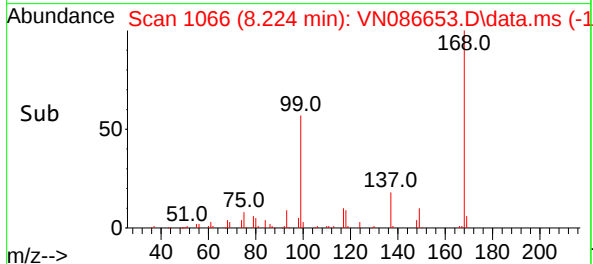
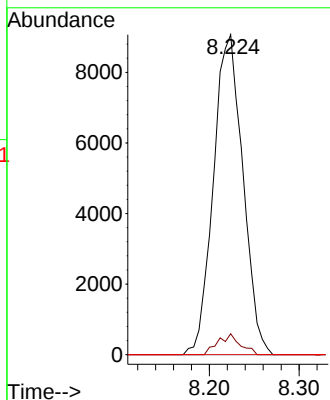


#38
Carbon Tetrachloride
Concen: 5.930 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

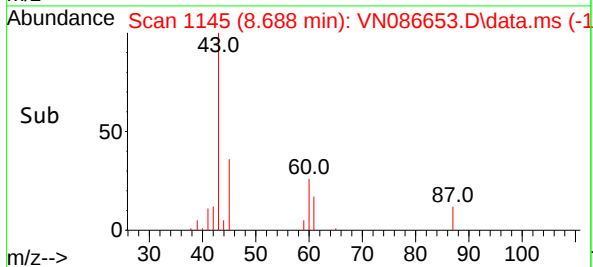
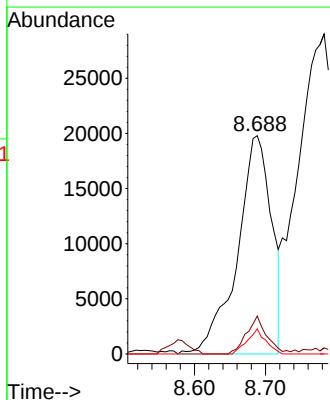
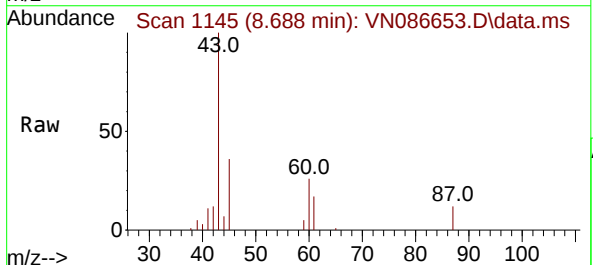


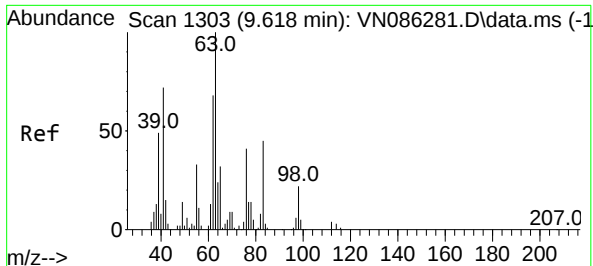
Tgt Ion:117 Resp: 20646
Ion Ratio Lower Upper
117 100
119 6.6 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.842 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 43 Resp: 66052
Ion Ratio Lower Upper
43 100
61 10.4 20.5 30.7#
87 6.2 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.446 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

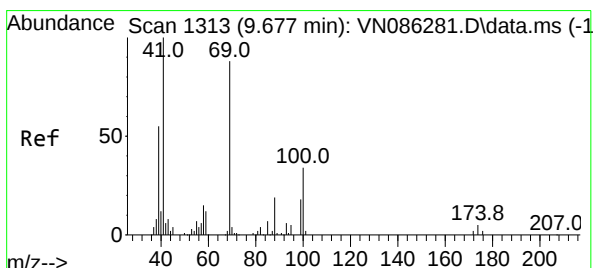
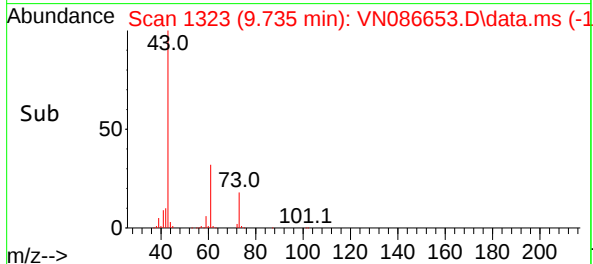
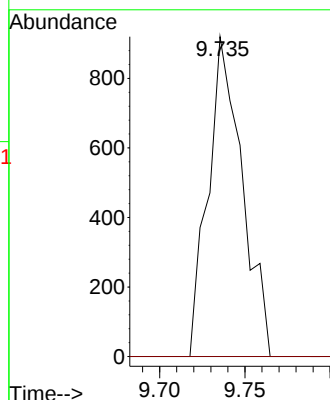
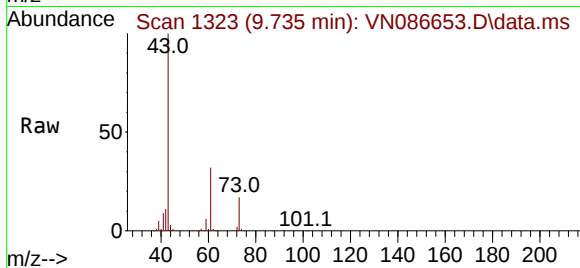
PB167995ZHE#15

Tgt Ion: 63 Resp: 1278

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 26.307 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

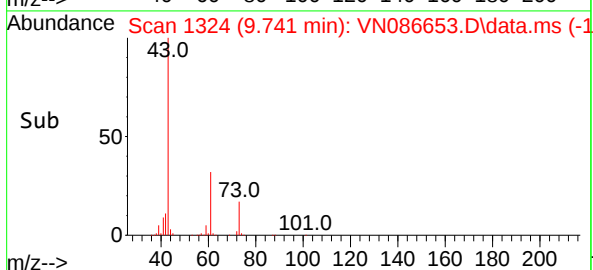
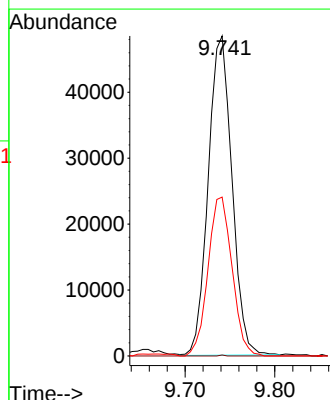
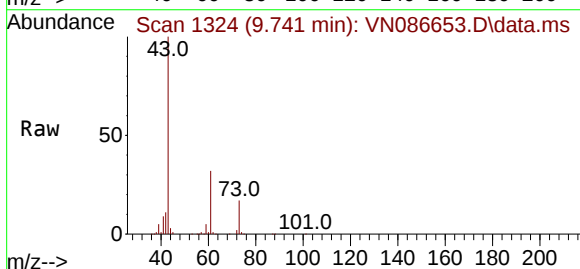
Tgt Ion: 41 Resp: 88915

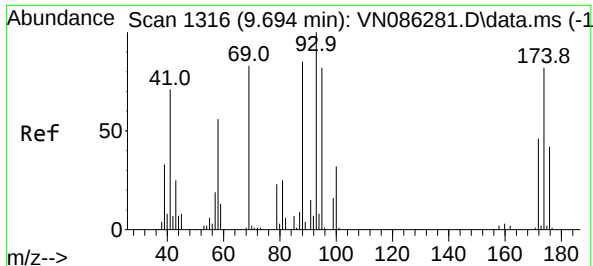
Ion Ratio Lower Upper

41 100

69 0.1 68.2 102.2#

39 50.5 45.2 67.8





#49

1,4-Dioxane

Concen: 0.991 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#15

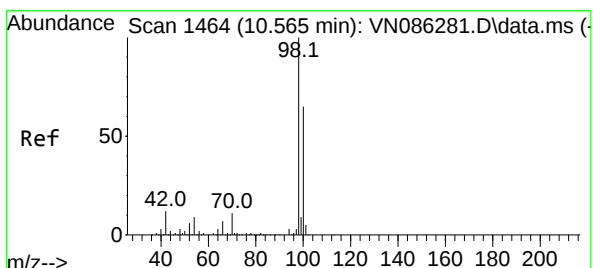
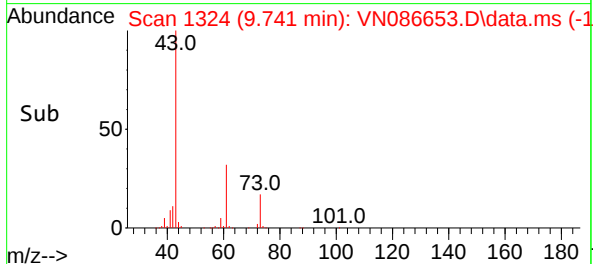
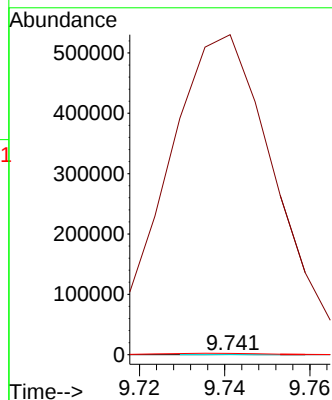
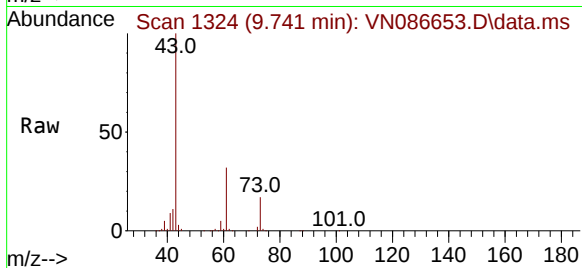
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 1686305.3 23.8 35.8#

58 7368.4 57.4 86.2#



#50

Toluene-d8

Concen: 51.839 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086653.D

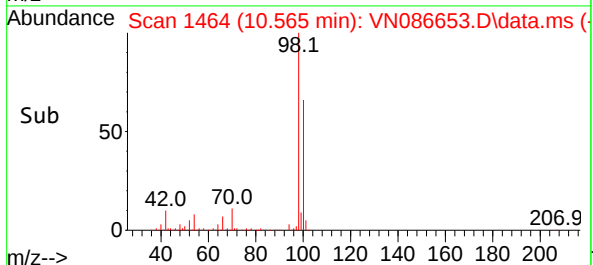
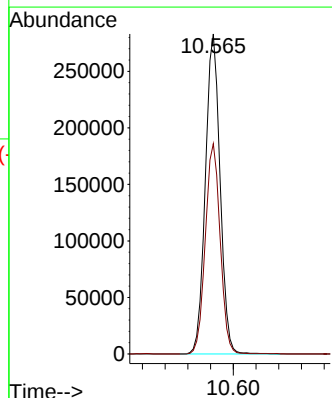
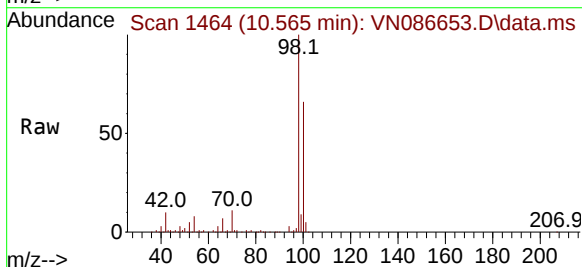
Acq: 15 May 2025 18:25

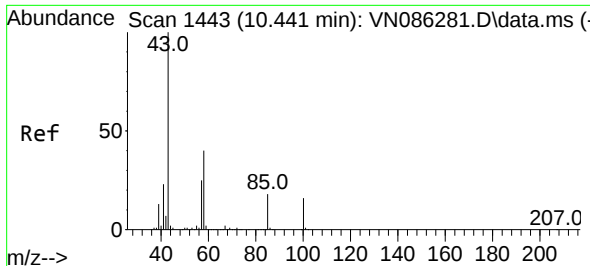
Tgt Ion: 98 Resp: 507089

Ion Ratio Lower Upper

98 100

100 66.3 52.5 78.7

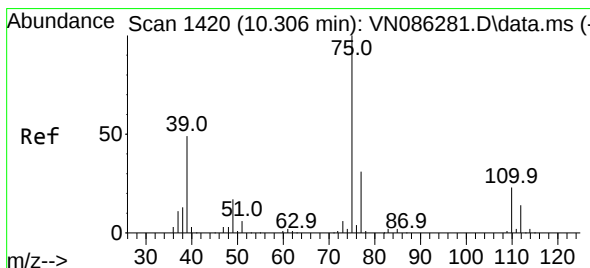
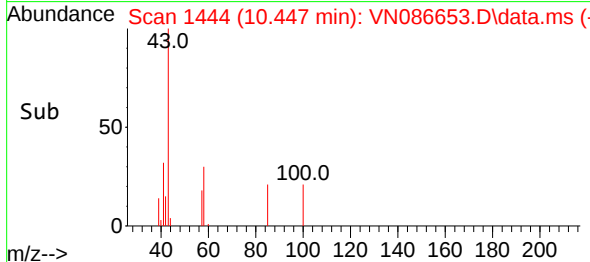
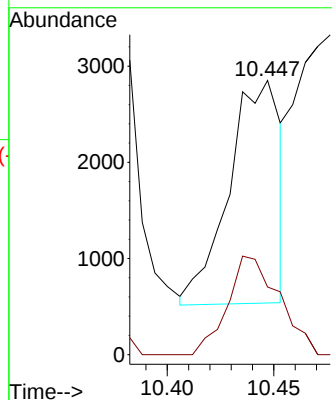
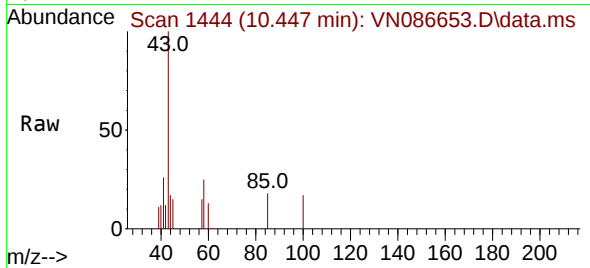




#51
4-Methyl-2-Pentanone
Concen: 0.989 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

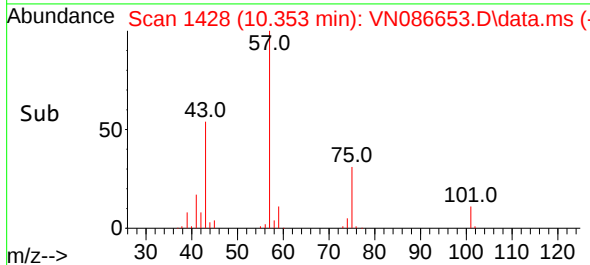
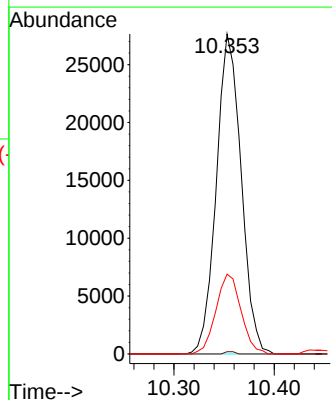
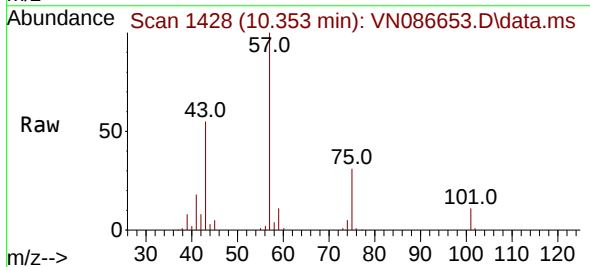
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

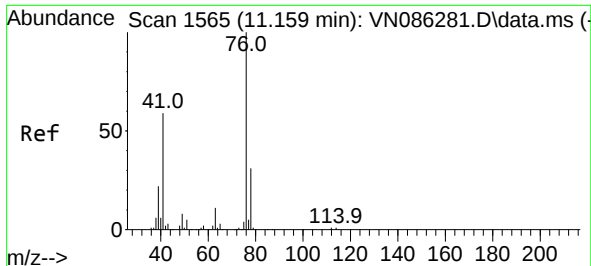
Tgt Ion: 43 Resp: 3898
Ion Ratio Lower Upper
43 100
58 44.3 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 9.816 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 75 Resp: 47486
Ion Ratio Lower Upper
75 100
77 0.7 25.2 37.8#
39 24.9 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.874 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086653.D

Acq: 15 May 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

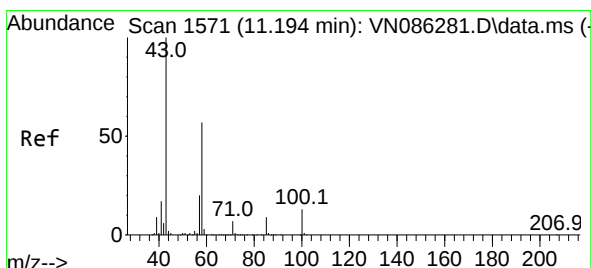
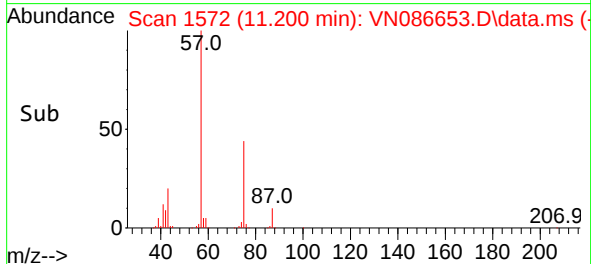
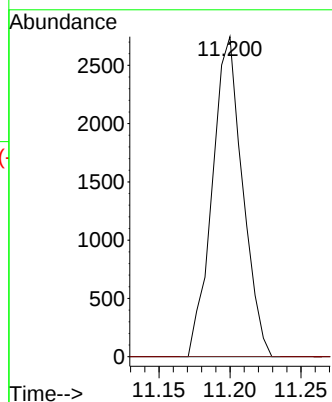
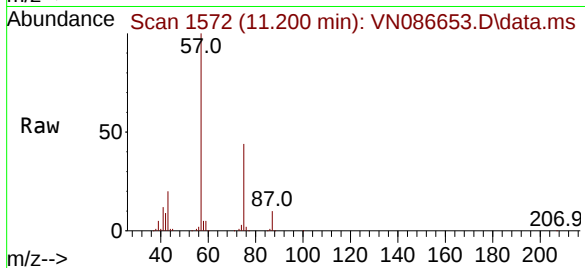
PB167995ZHE#15

Tgt Ion: 76 Resp: 4079

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 26.904 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086653.D

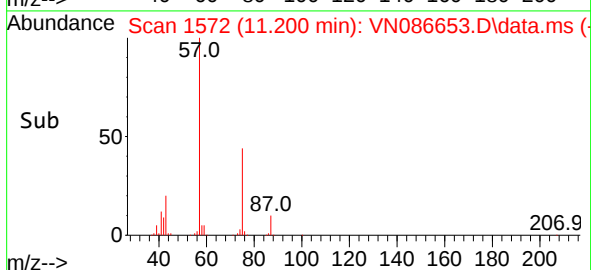
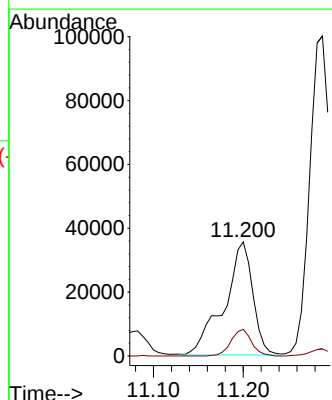
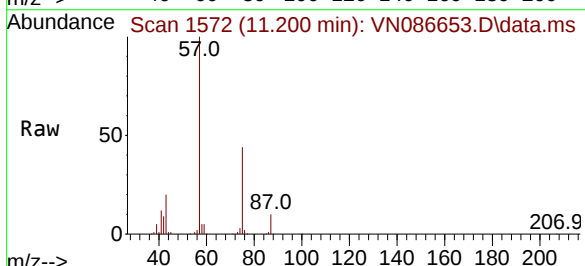
Acq: 15 May 2025 18:25

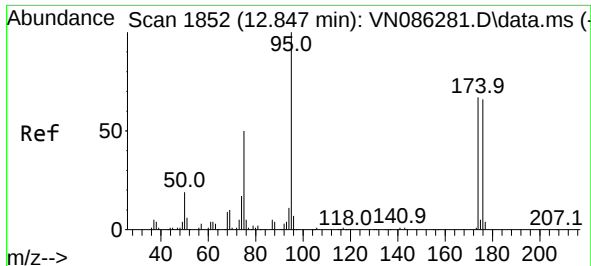
Tgt Ion: 43 Resp: 78647

Ion Ratio Lower Upper

43 100

58 16.9 28.3 85.0#

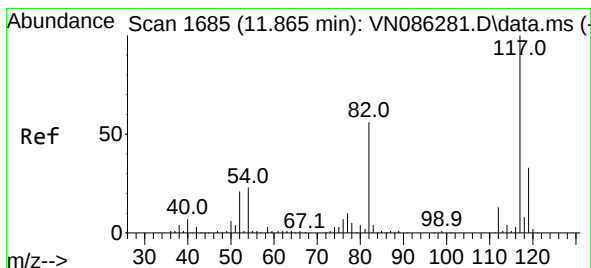
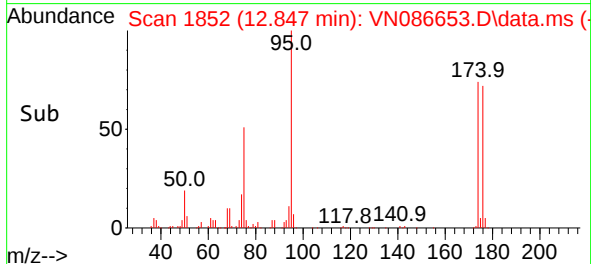
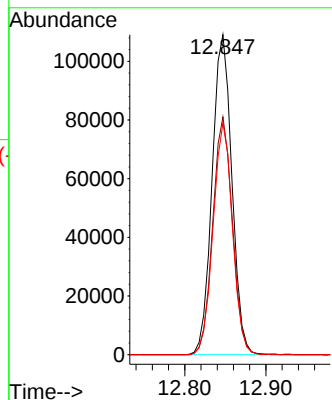
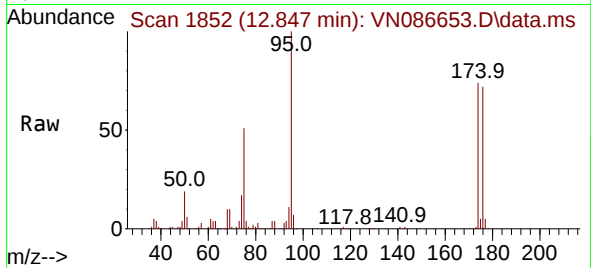




#62
4-Bromofluorobenzene
Concen: 51.570 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

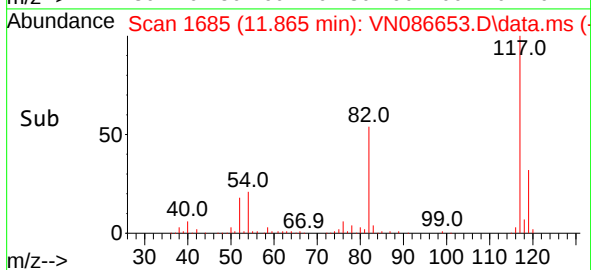
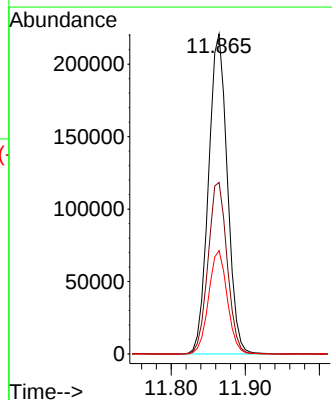
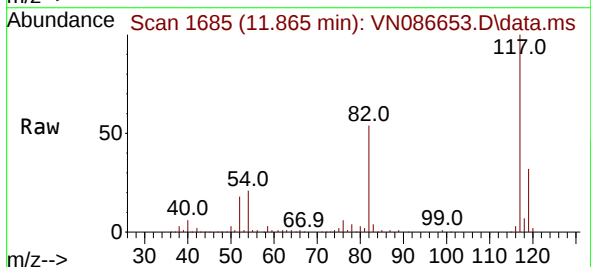
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

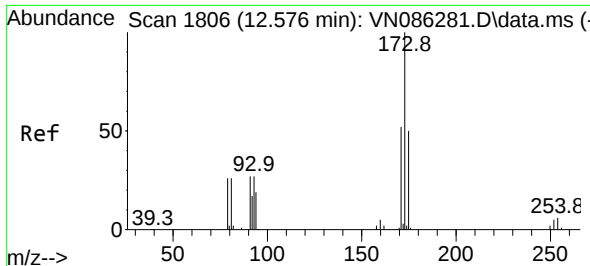
Tgt Ion: 95 Resp: 183996
Ion Ratio Lower Upper
95 100
174 73.9 0.0 133.4
176 71.1 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion: 117 Resp: 389995
Ion Ratio Lower Upper
117 100
82 53.6 44.7 67.1
119 32.3 26.4 39.6

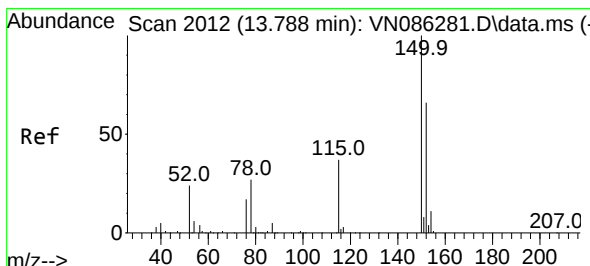
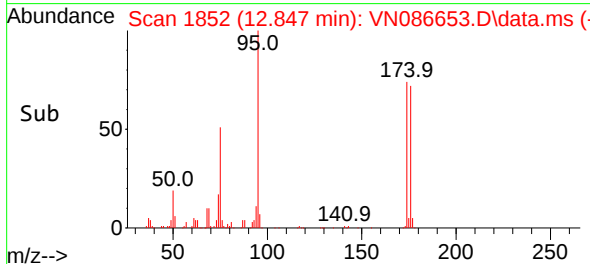
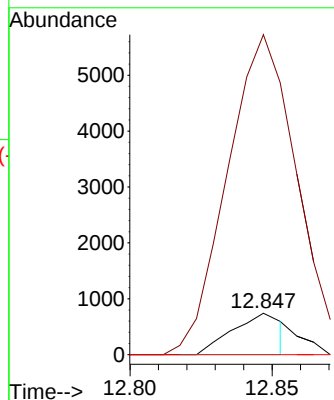
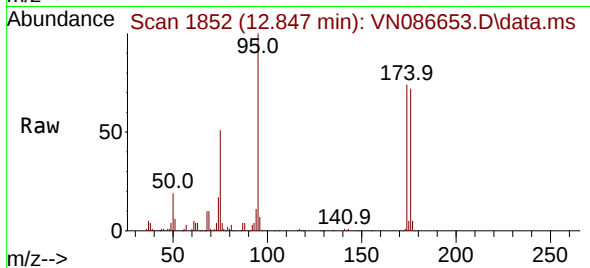




#71
Bromoform
Concen: 0.415 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

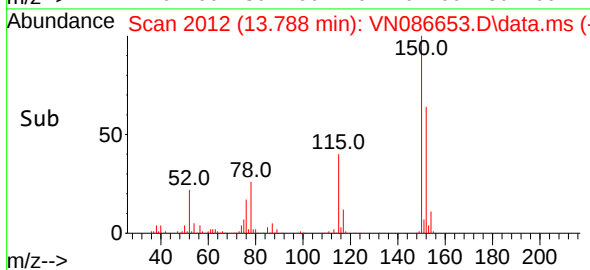
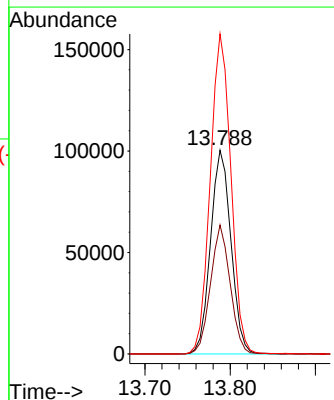
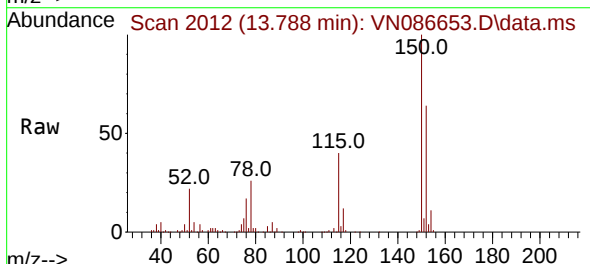
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

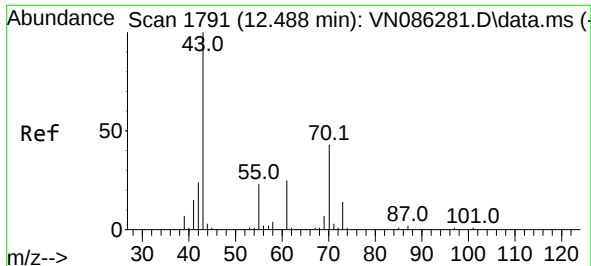
Tgt Ion:173 Resp: 898
Ion Ratio Lower Upper
173 100
175 859.5 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion:152 Resp: 167119
Ion Ratio Lower Upper
152 100
115 60.9 31.9 95.9
150 158.5 0.0 352.0

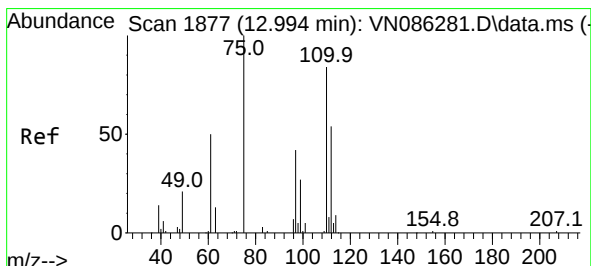
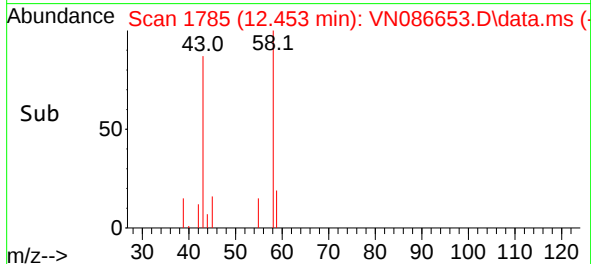
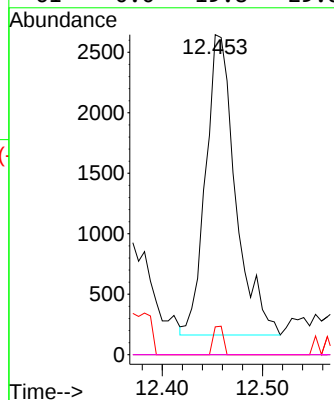
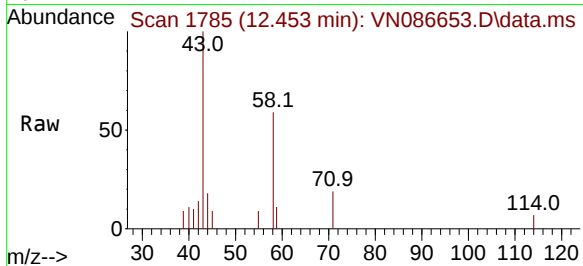




#74
N-amy1 acetate
Concen: 0.758 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

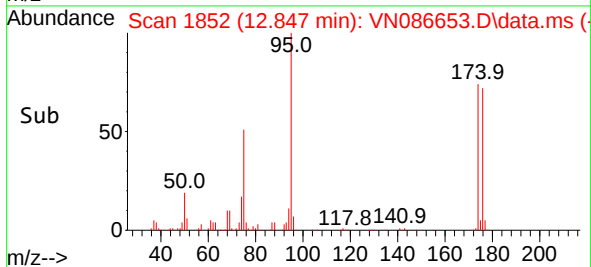
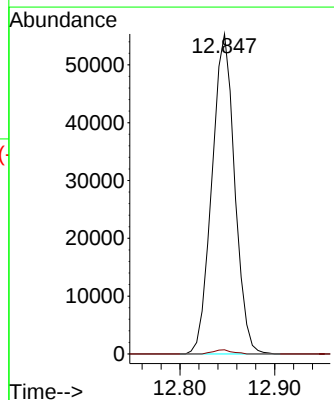
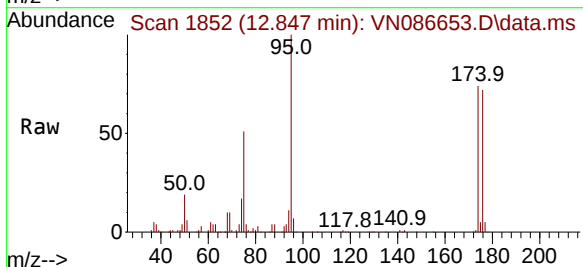
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#15

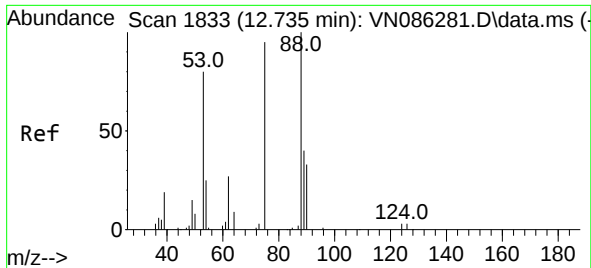
Tgt Ion:	43	Resp:	5159
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	3.2	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.389 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086653.D
Acq: 15 May 2025 18:25

Tgt Ion:	75	Resp:	92241
Ion	Ratio	Lower	Upper
75	100		
77	1.1	98.8	296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.172 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086653.D
 Acq: 15 May 2025 18:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#15

Tgt Ion: 75 Resp: 92241
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

