

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086648.D
 Acq On : 15 May 2025 16:24
 Operator : JC\MD
 Sample : PB167995ZHE#10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#10

Quant Time: May 16 05:29:50 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)

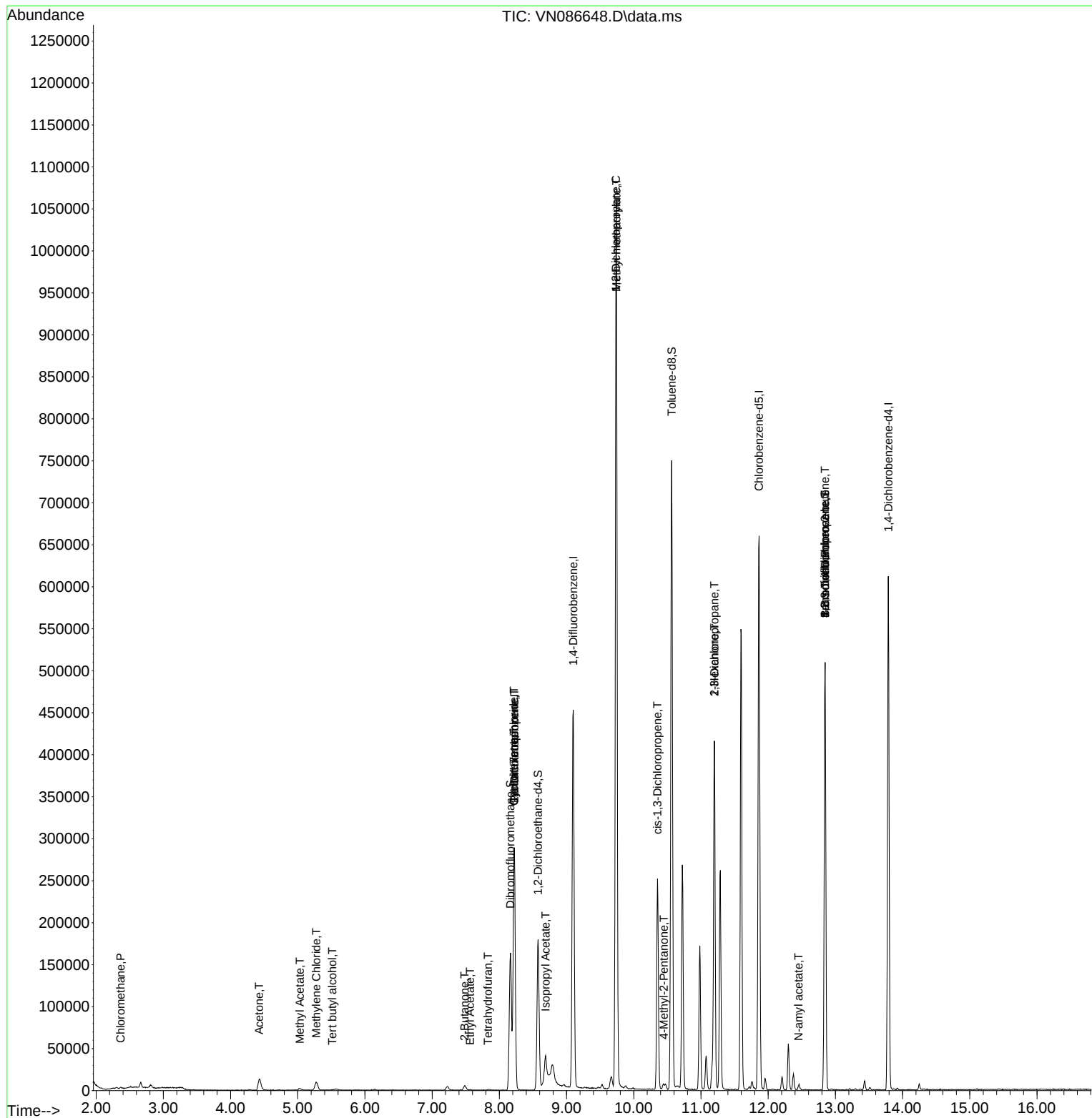
Internal Standards						
1) Pentafluorobenzene	8.224	168	220424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	412706	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	404971	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167716	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	148677	46.515	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.020%			
35) Dibromofluoromethane	8.165	113	122223	63.810	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 127.620%#			
50) Toluene-d8	10.565	98	531417	51.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.820%			
62) 4-Bromofluorobenzene	12.847	95	189362	50.715	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.440%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	781	0.206	ug/l	98
11) Tert butyl alcohol	5.512	59	1168	2.003	ug/l #	72
16) Acetone	4.424	43	26804	18.981	ug/l	98
18) Methyl Acetate	5.030	43	4520	1.178	ug/l #	90
20) Methylene Chloride	5.277	84	8088	2.737	ug/l #	94
25) 2-Butanone	7.483	43	9962	5.007	ug/l	100
29) Tetrahydrofuran	7.830	42	690	0.519	ug/l #	32
31) Cyclohexane	8.218	56	4591	0.886	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17350	4.535	ug/l #	51
37) Ethyl Acetate	7.565	43	885	0.220	ug/l #	68
38) Carbon Tetrachloride	8.218	117	21710	5.959	ug/l #	16
43) Isopropyl Acetate	8.688	43	59226	6.444	ug/l #	76
45) 1,2-Dichloropropane	9.735	63	1509	0.503	ug/l #	43
48) Methyl methacrylate	9.741	41	91399	25.841	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	5141	1.246	ug/l	91
54) cis-1,3-Dichloropropene	10.353	75	47863	9.455	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	4491	0.920	ug/l #	43
59) 2-Hexanone	11.200	43	81469	26.631	ug/l #	45
71) Bromoform	12.847	173	961	0.428	ug/l #	1
74) N-amyl acetate	12.453	43	5666	0.830	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	94110	23.778	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94110	57.106	ug/l #	10

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

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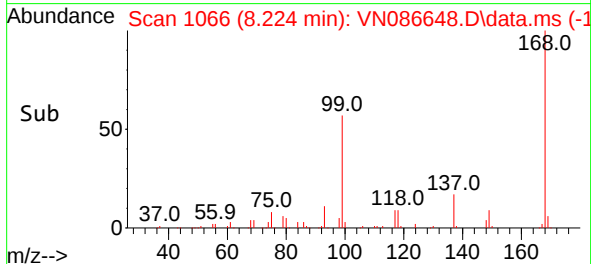
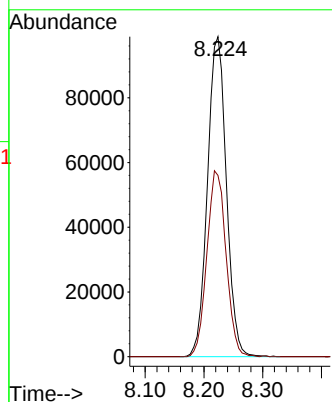
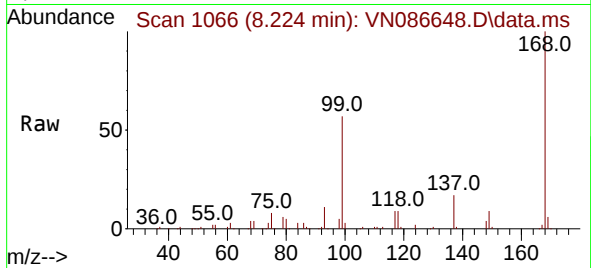




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

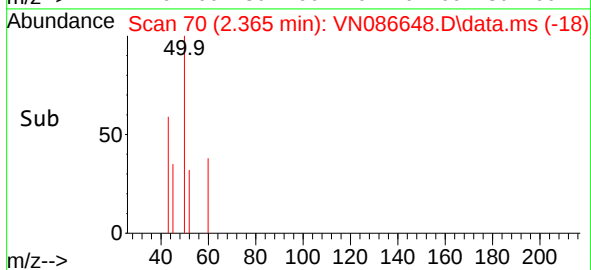
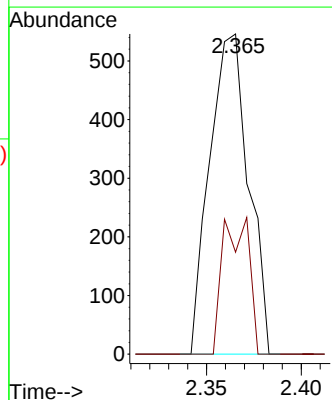
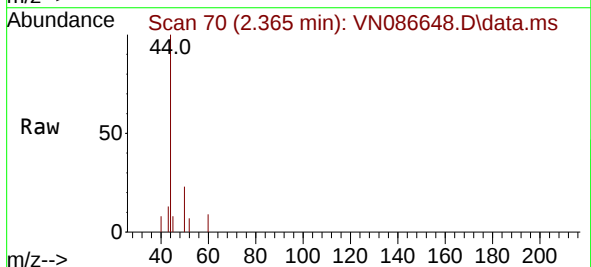
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

Tgt Ion:168 Resp: 220424
Ion Ratio Lower Upper
168 100
99 56.7 52.5 78.7



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 50 Resp: 781
Ion Ratio Lower Upper
50 100
52 31.9 26.5 39.7

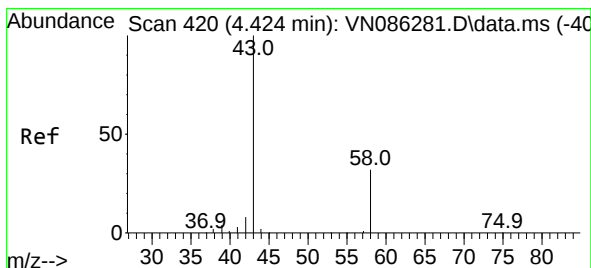
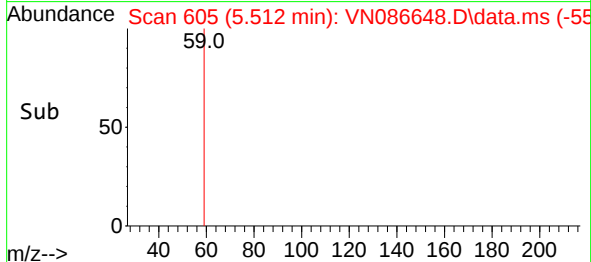
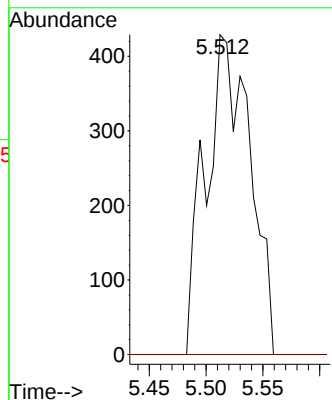
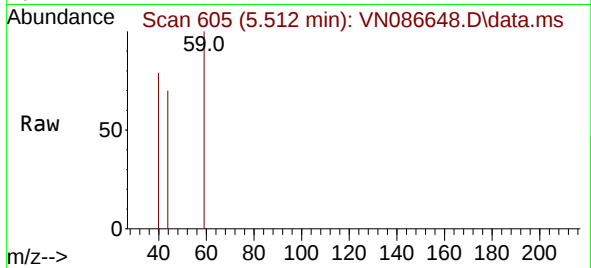




#11
Tert butyl alcohol
Concen: 2.003 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

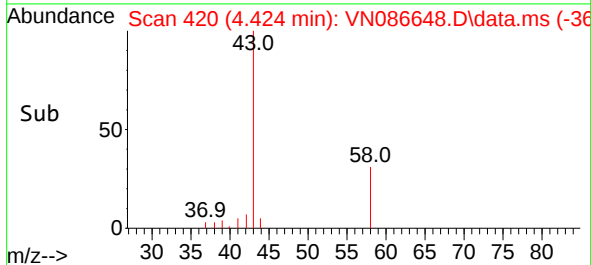
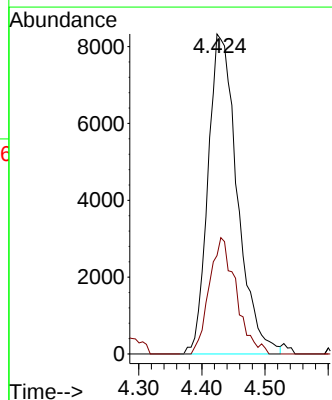
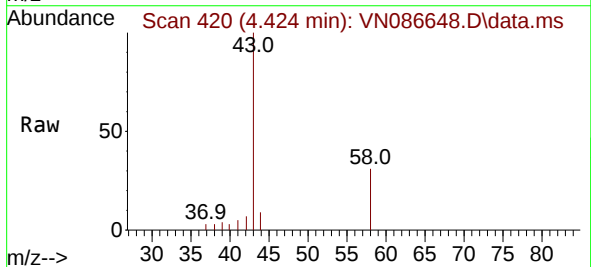
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

Tgt Ion: 59 Resp: 1168
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 18.981 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

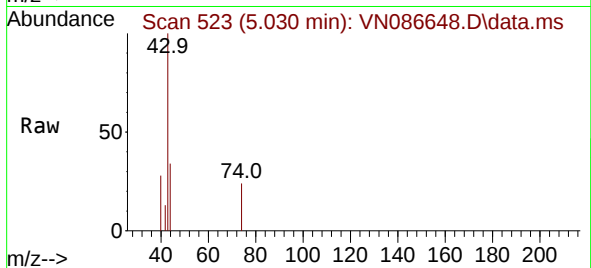
Tgt Ion: 43 Resp: 26804
Ion Ratio Lower Upper
43 100
58 30.8 25.3 37.9



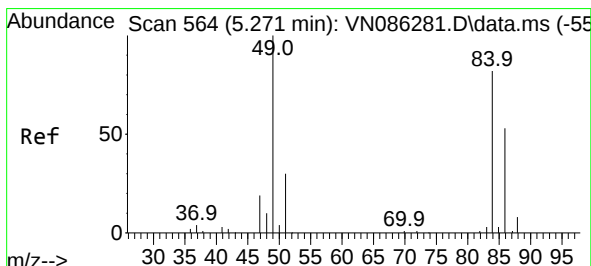
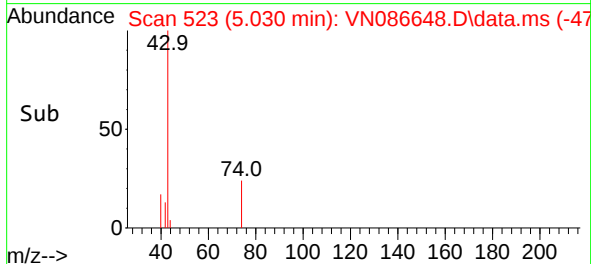
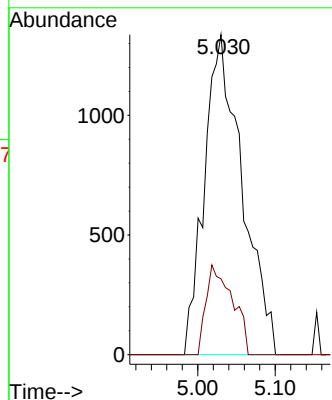


#18
Methyl Acetate
Concen: 1.178 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

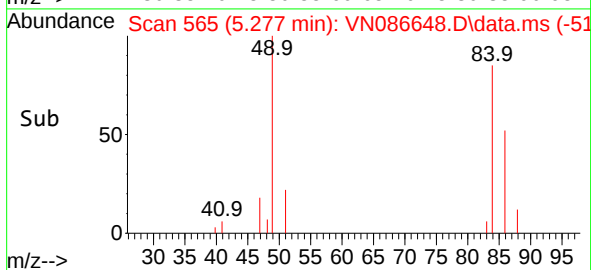
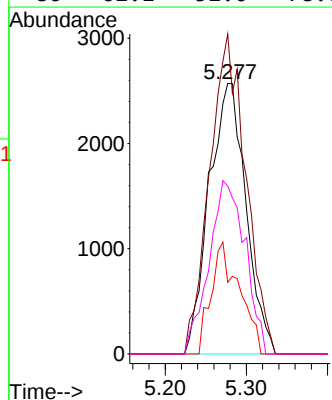
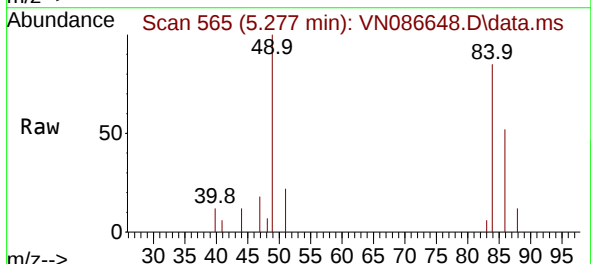


Tgt Ion: 43 Resp: 4520
Ion Ratio Lower Upper
43 100
74 19.6 19.8 29.6#



#20
Methylene Chloride
Concen: 2.737 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 84 Resp: 8088
Ion Ratio Lower Upper
84 100
49 118.3 98.2 147.2
51 26.5 29.8 44.6#
86 62.1 52.0 78.0

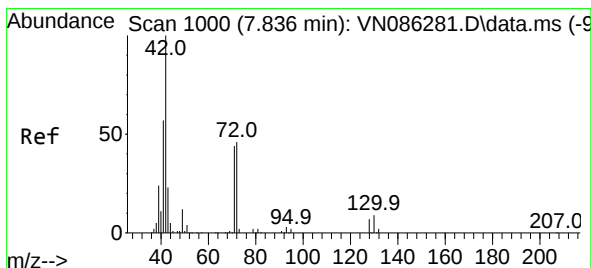
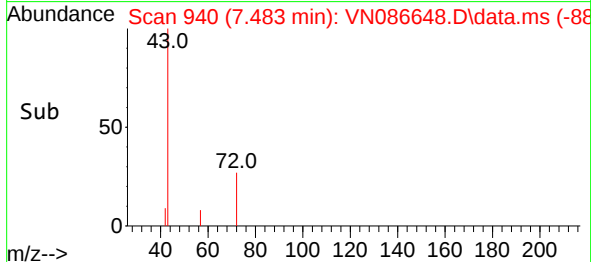
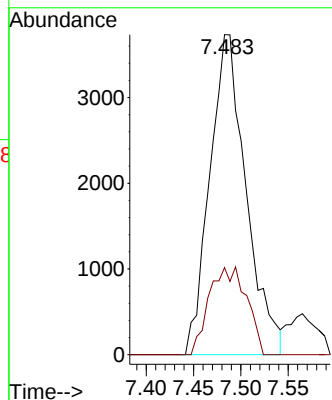
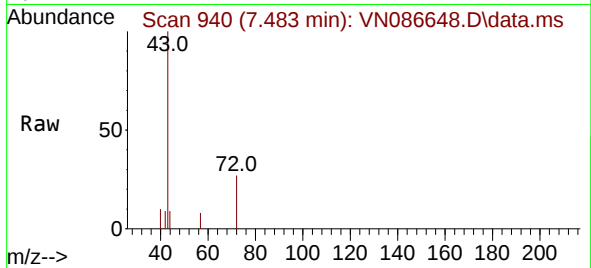




#25
2-Butanone
Concen: 5.007 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

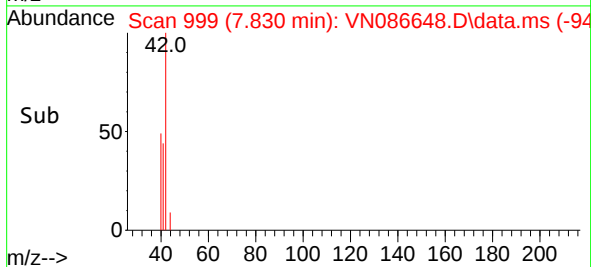
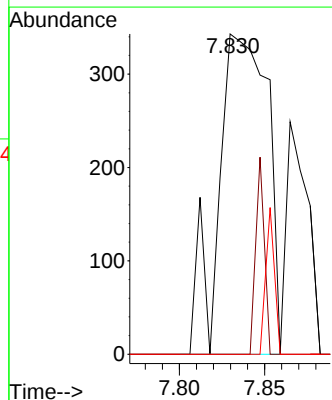
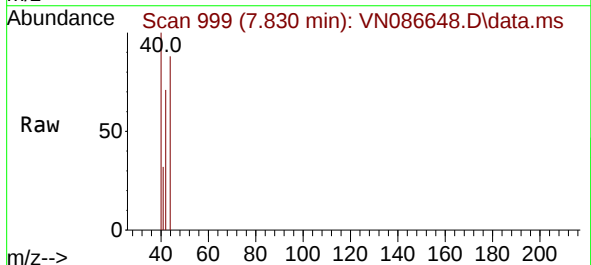
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

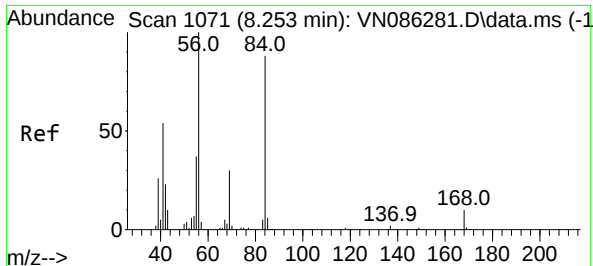
Tgt Ion: 43 Resp: 9962
Ion Ratio Lower Upper
43 100
72 27.2 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.519 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 42 Resp: 690
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#

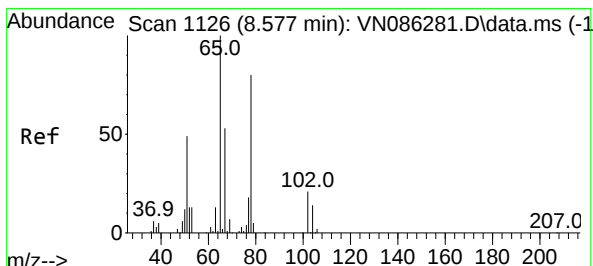
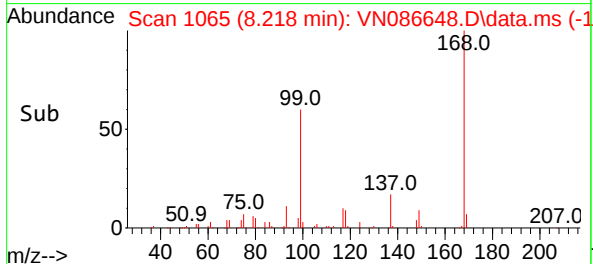
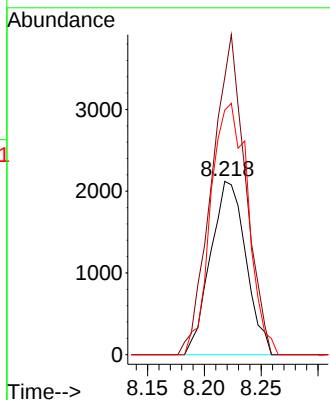
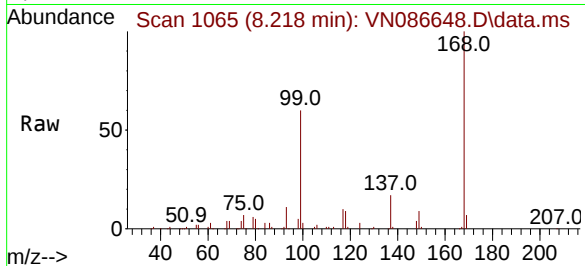




#31
Cyclohexane
Concen: 0.886 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

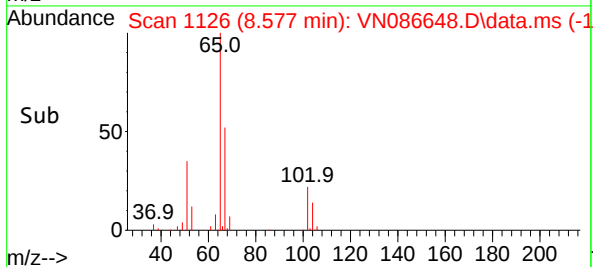
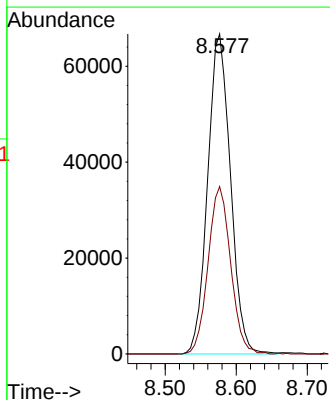
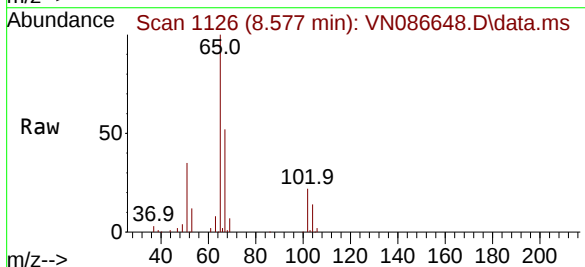
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

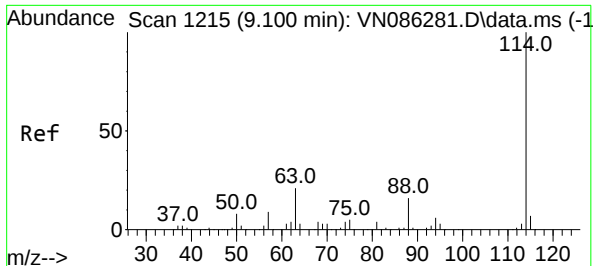
Tgt Ion: 56 Resp: 4591
Ion Ratio Lower Upper
56 100
69 159.8 24.2 36.2#
84 141.1 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 46.515 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 65 Resp: 148677
Ion Ratio Lower Upper
65 100
67 51.7 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: VN086648.D

Acq: 15 May 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#10

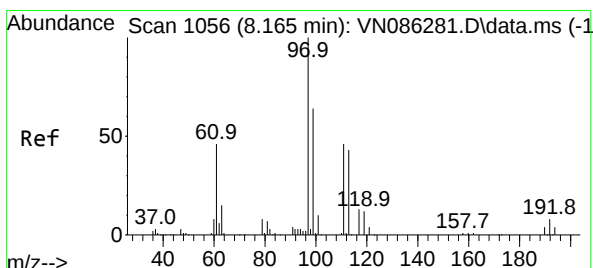
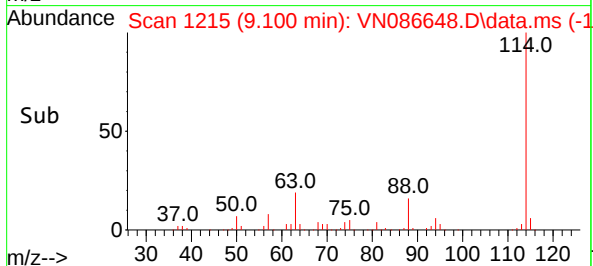
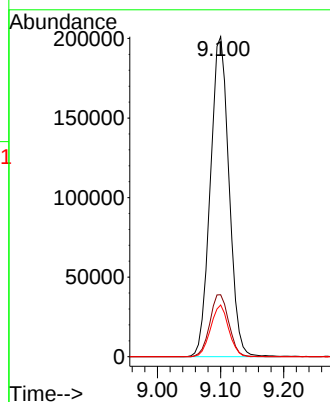
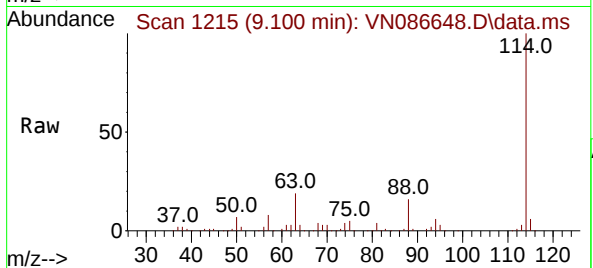
Tgt Ion:114 Resp: 412706

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 16.2 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.810 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086648.D

Acq: 15 May 2025 16:24

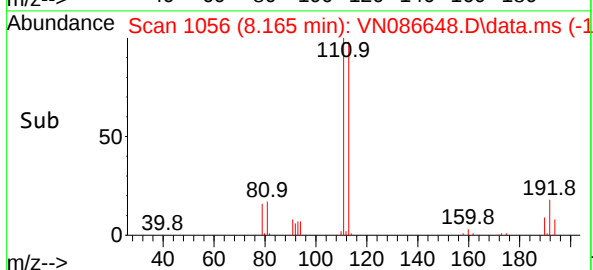
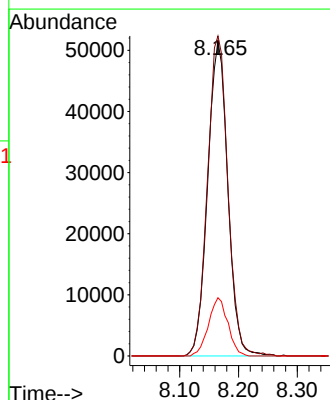
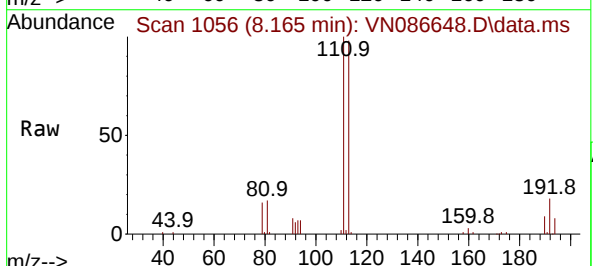
Tgt Ion:113 Resp: 122223

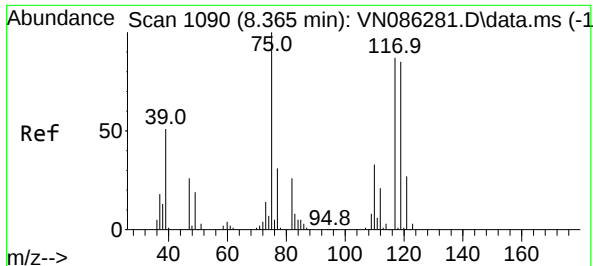
Ion Ratio Lower Upper

113 100

111 103.4 83.4 125.0

192 17.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.535 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086648.D

Acq: 15 May 2025 16:24

Instrument :

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PB167995ZHE#10

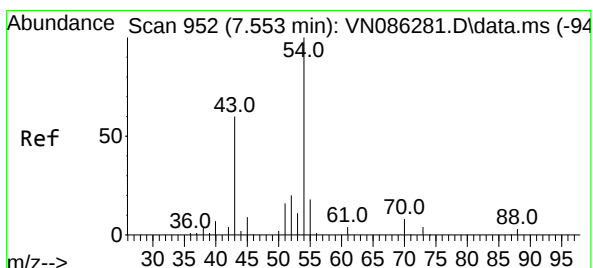
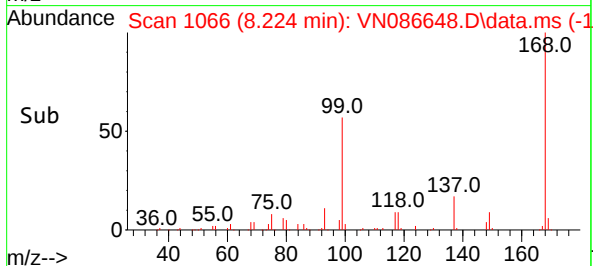
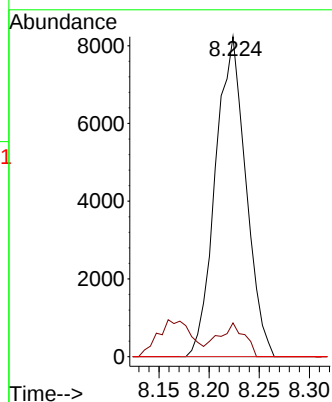
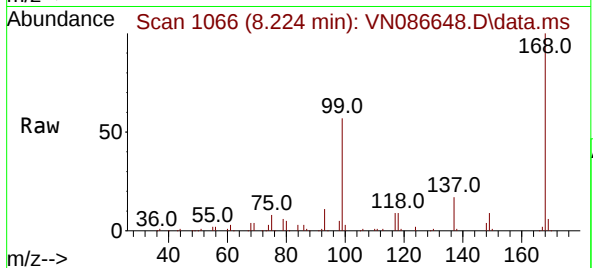
Tgt Ion: 75 Resp: 17350

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.220 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN086648.D

Acq: 15 May 2025 16:24

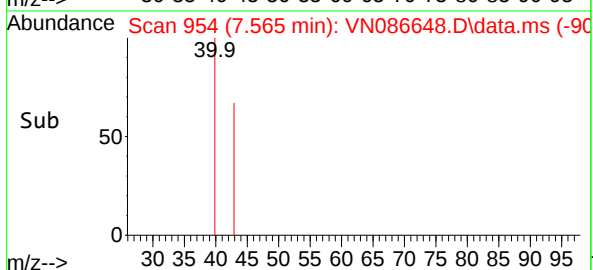
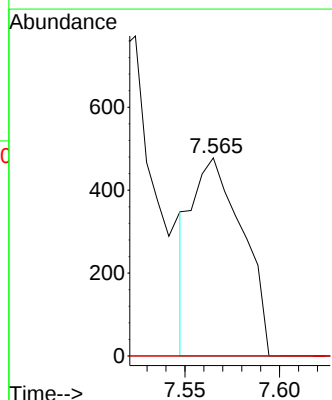
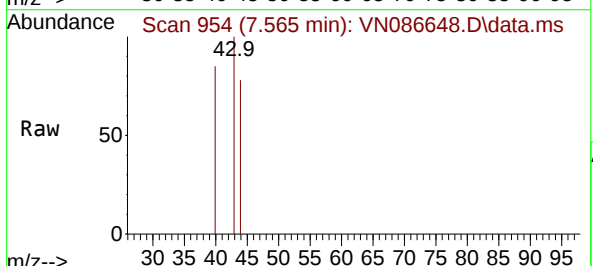
Tgt Ion: 43 Resp: 885

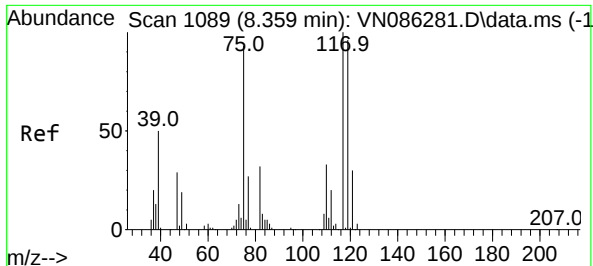
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

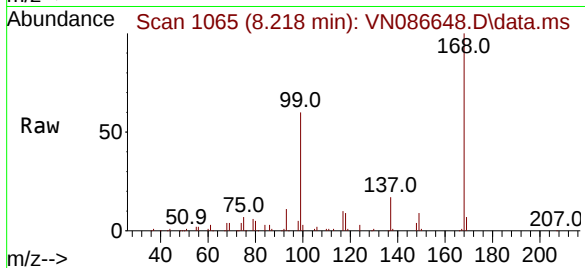
70 0.0 9.2 13.8#



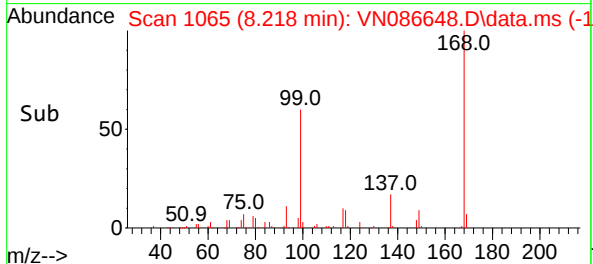
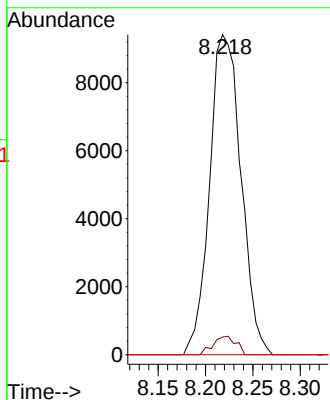


#38
Carbon Tetrachloride
Concen: 5.959 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

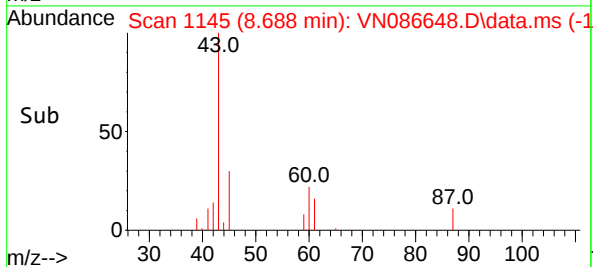
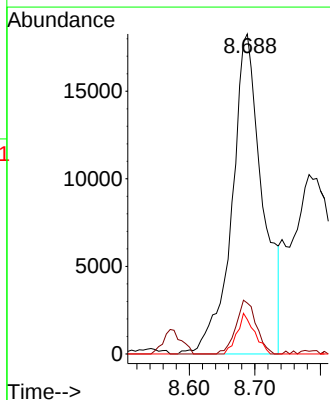
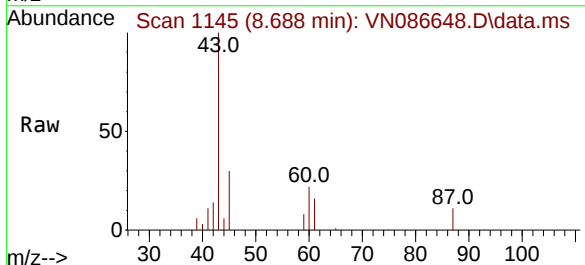


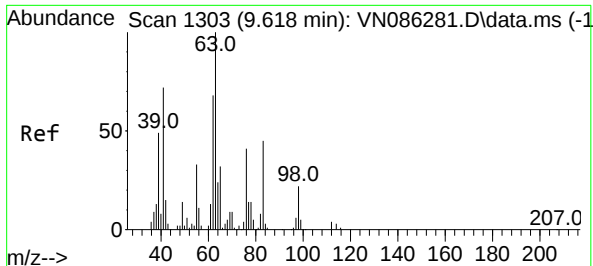
Tgt Ion:117 Resp: 21710
Ion Ratio Lower Upper
117 100
119 5.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.444 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 43 Resp: 59226
Ion Ratio Lower Upper
43 100
61 11.1 20.5 30.7#
87 7.2 10.5 15.7#

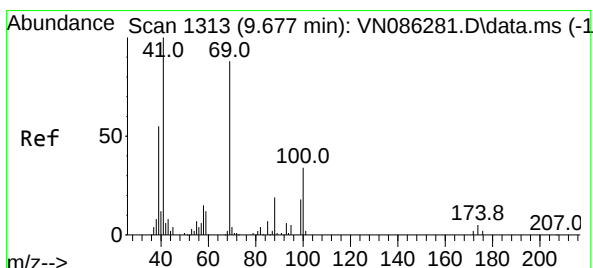
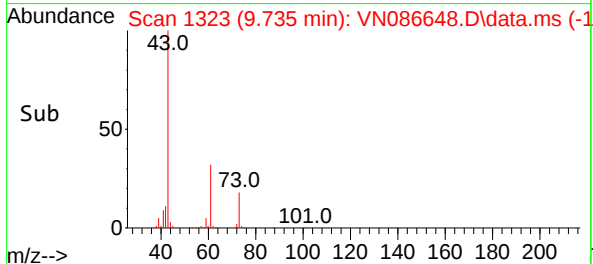
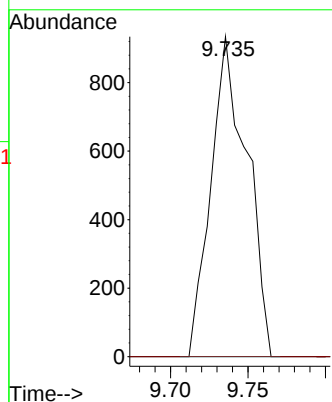
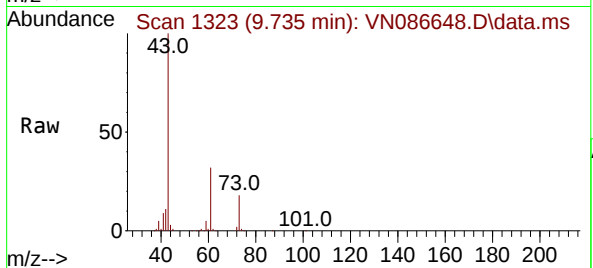




#45
1,2-Dichloropropane
Concen: 0.503 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

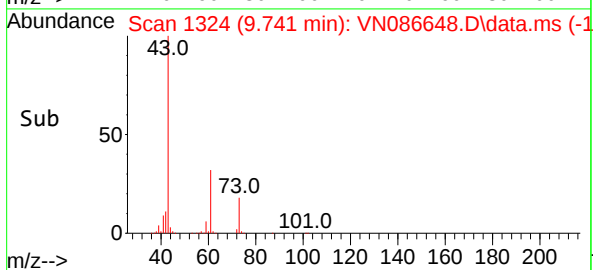
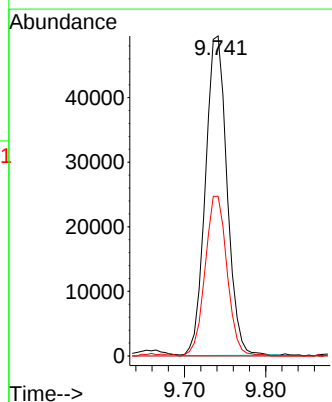
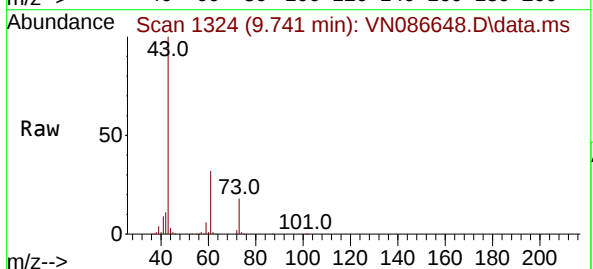
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

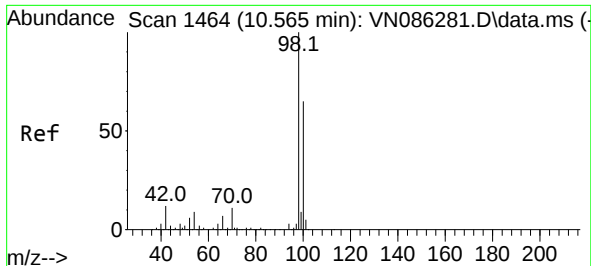
Tgt Ion: 63 Resp: 1509
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#



#48
Methyl methacrylate
Concen: 25.841 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 41 Resp: 91399
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 50.9 45.2 67.8

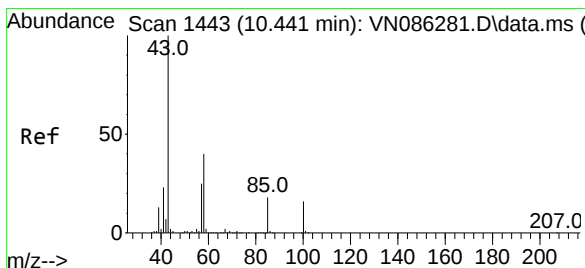
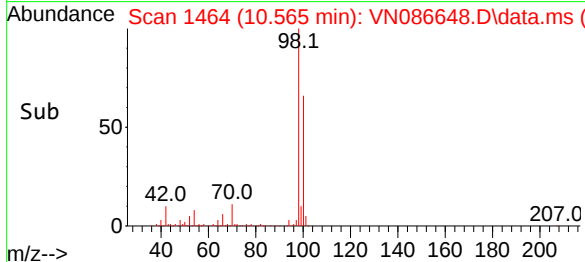
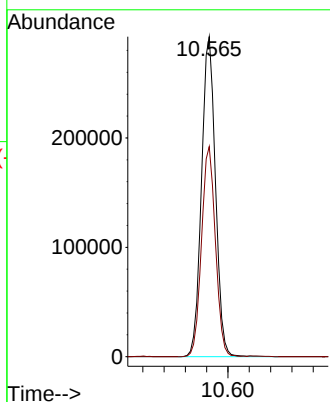
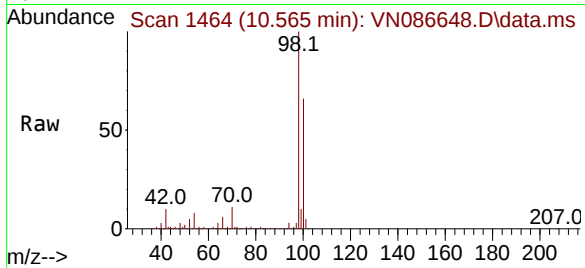




#50
Toluene-d8
Concen: 51.912 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

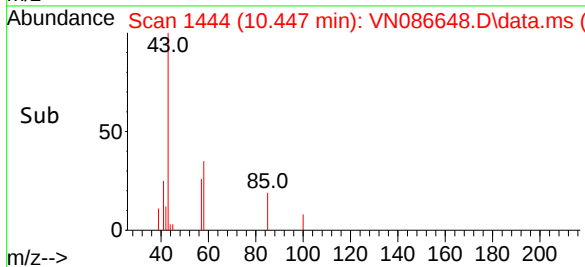
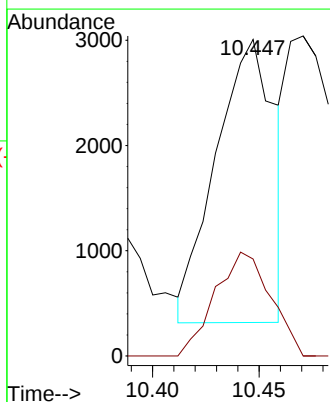
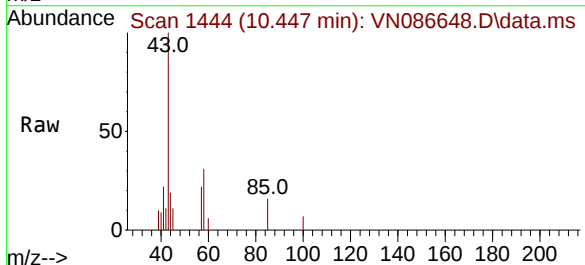
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

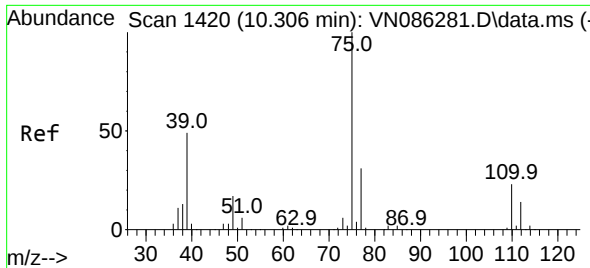
Tgt Ion: 98 Resp: 531417
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.246 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 43 Resp: 5141
Ion Ratio Lower Upper
43 100
58 34.8 32.2 48.4

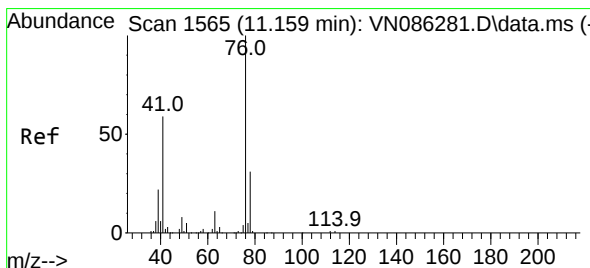
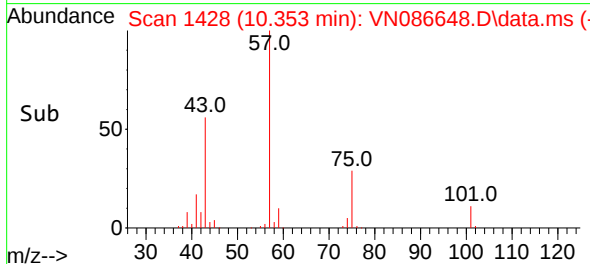
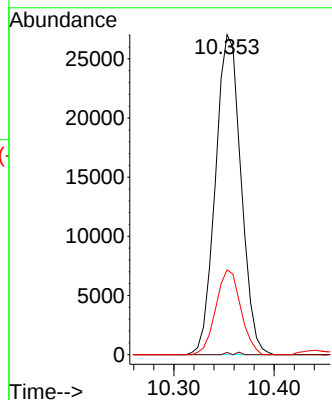
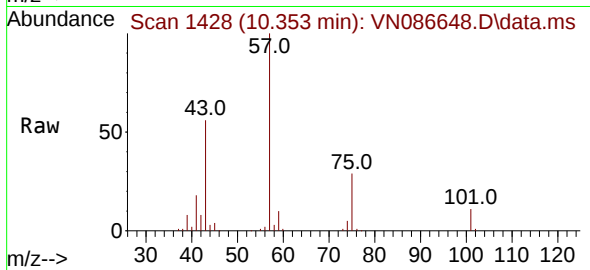




#54
 cis-1,3-Dichloropropene
 Concen: 9.455 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086648.D
 Acq: 15 May 2025 16:24

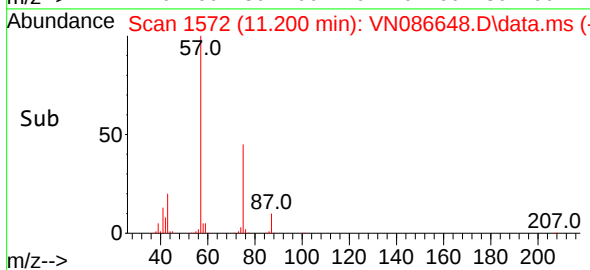
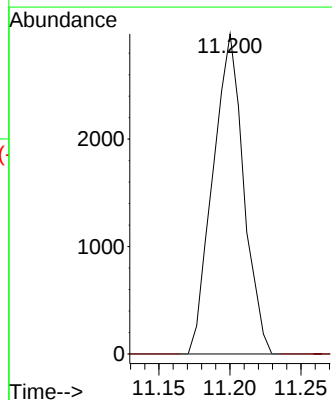
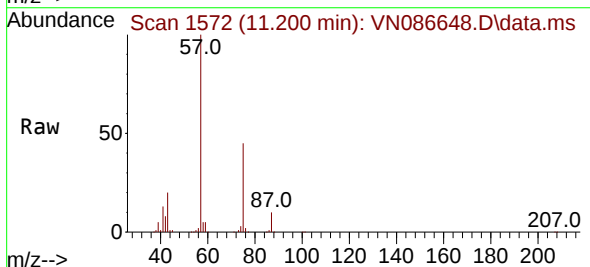
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#10

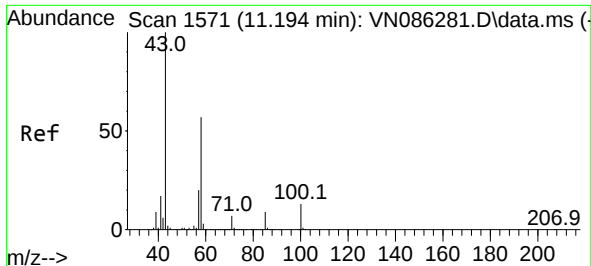
Tgt Ion: 75 Resp: 47863
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 26.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.920 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086648.D
 Acq: 15 May 2025 16:24

Tgt Ion: 76 Resp: 4491
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

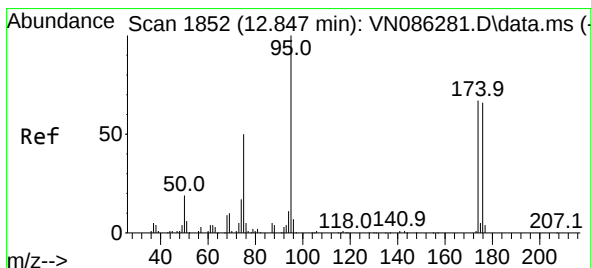
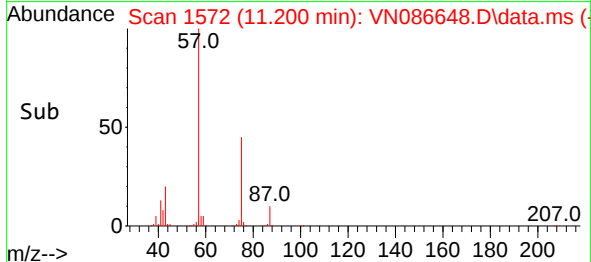
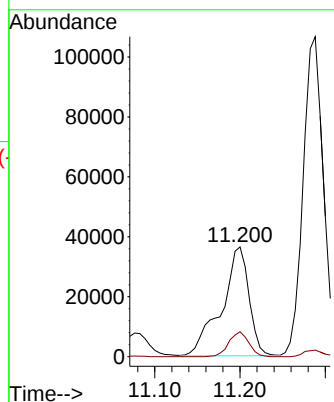
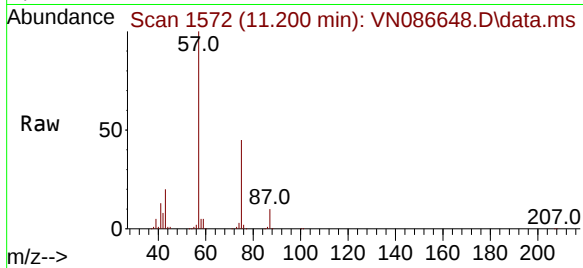




#59
2-Hexanone
Concen: 26.631 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

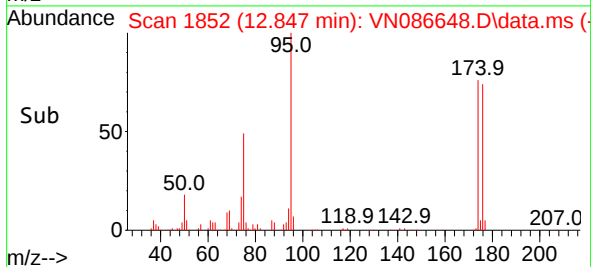
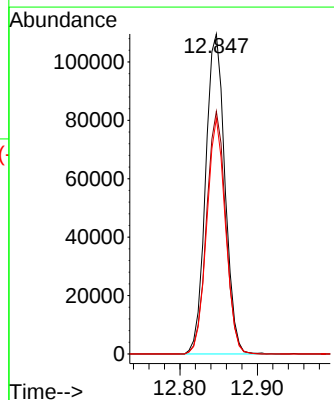
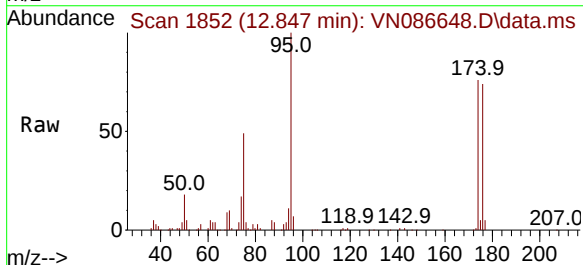
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

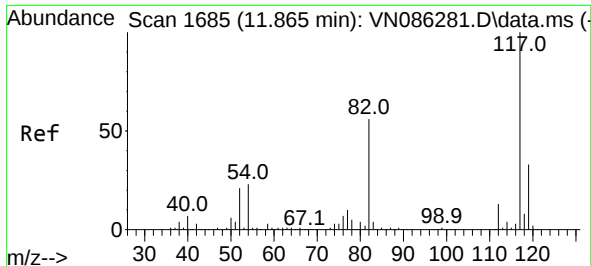
Tgt Ion: 43 Resp: 81469
Ion Ratio Lower Upper
43 100
58 16.7 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.715 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 95 Resp: 189362
Ion Ratio Lower Upper
95 100
174 74.9 0.0 133.4
176 71.2 0.0 129.2

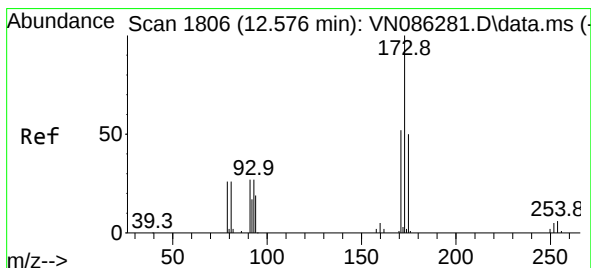
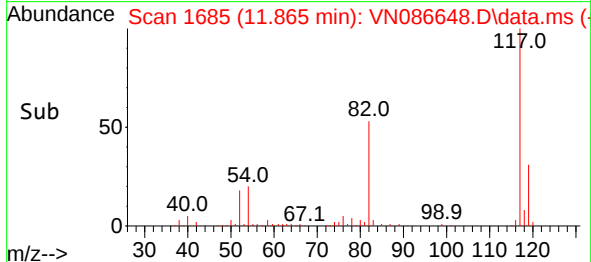
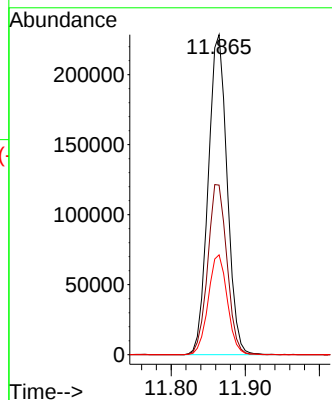
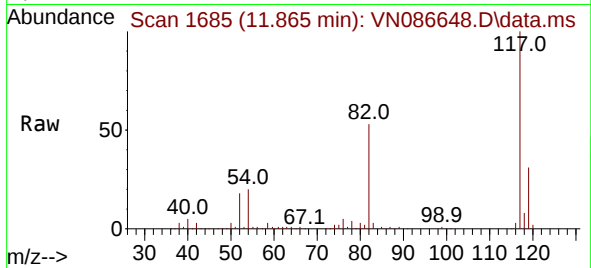




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

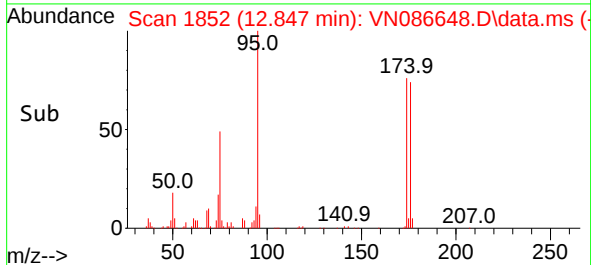
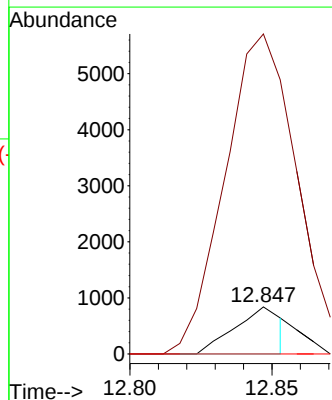
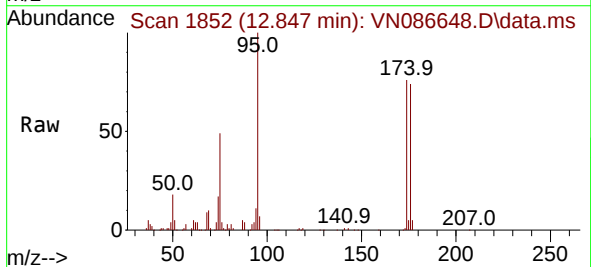
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

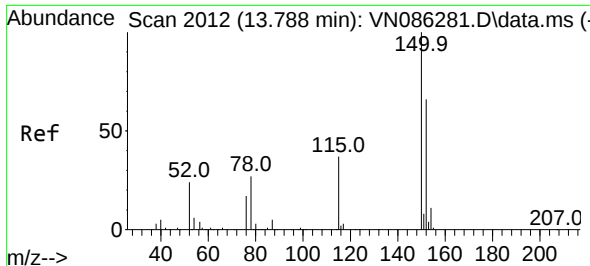
Tgt Ion:117 Resp: 404971
Ion Ratio Lower Upper
117 100
82 53.0 44.7 67.1
119 31.2 26.4 39.6



#71
Bromoform
Concen: 0.428 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion:173 Resp: 961
Ion Ratio Lower Upper
173 100
175 834.9 24.6 73.6#
254 0.0 0.0 0.0

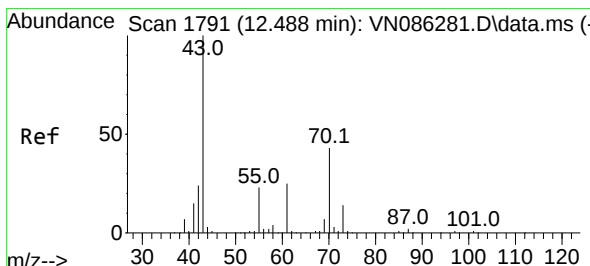
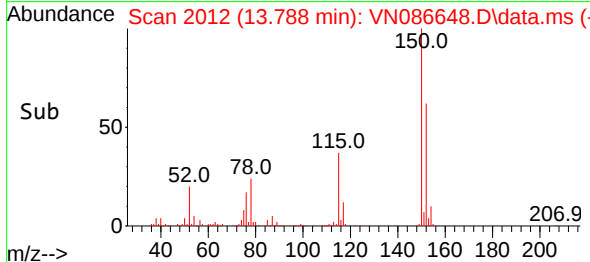
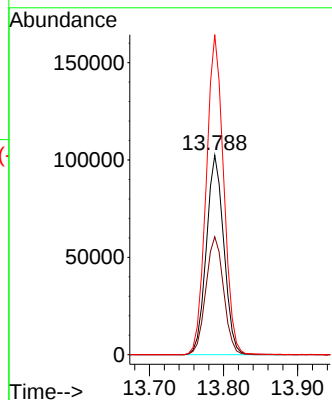
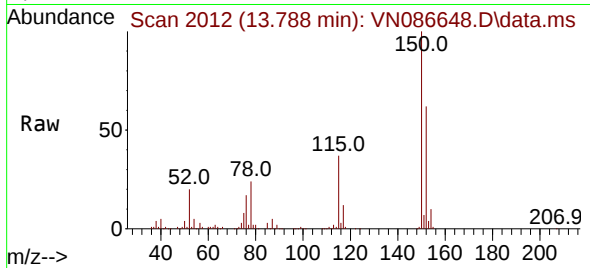




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

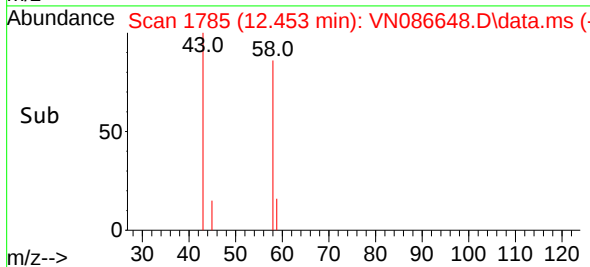
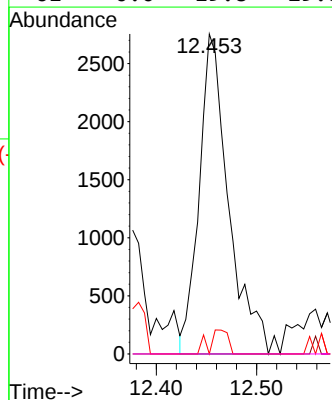
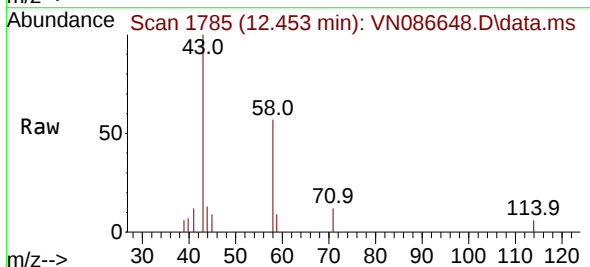
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

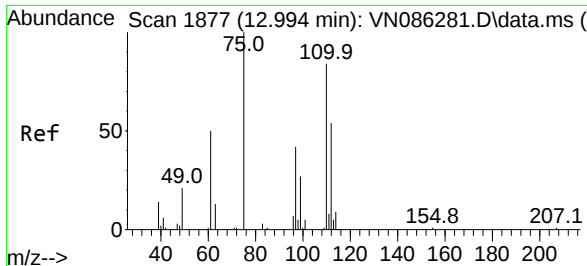
Tgt Ion:152 Resp: 167716
Ion Ratio Lower Upper
152 100
115 60.1 31.9 95.9
150 160.0 0.0 352.0



#74
N-ethyl acetate
Concen: 0.830 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 43 Resp: 5666
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 4.7 19.0 28.4#
61 0.0 19.8 29.8#

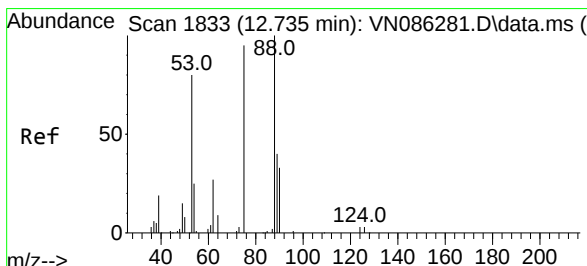
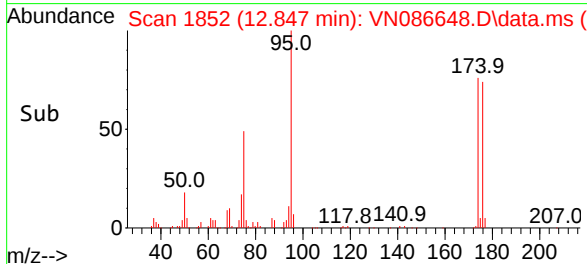
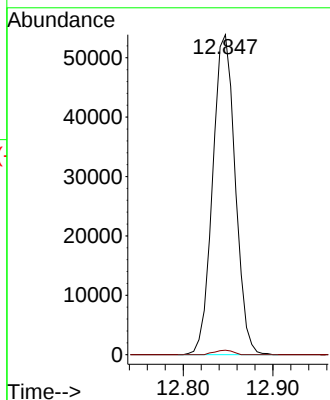
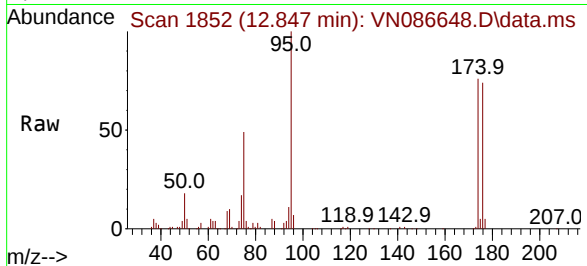




#76
1,2,3-Trichloropropane
Concen: 23.778 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#10

Tgt Ion: 75 Resp: 94110
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.106 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086648.D
Acq: 15 May 2025 16:24

Tgt Ion: 75 Resp: 94110
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

