

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086613.D
 Acq On : 13 May 2025 19:50
 Operator : JC\MD
 Sample : PB167964ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#11

Quant Time: May 14 01:50:51 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)

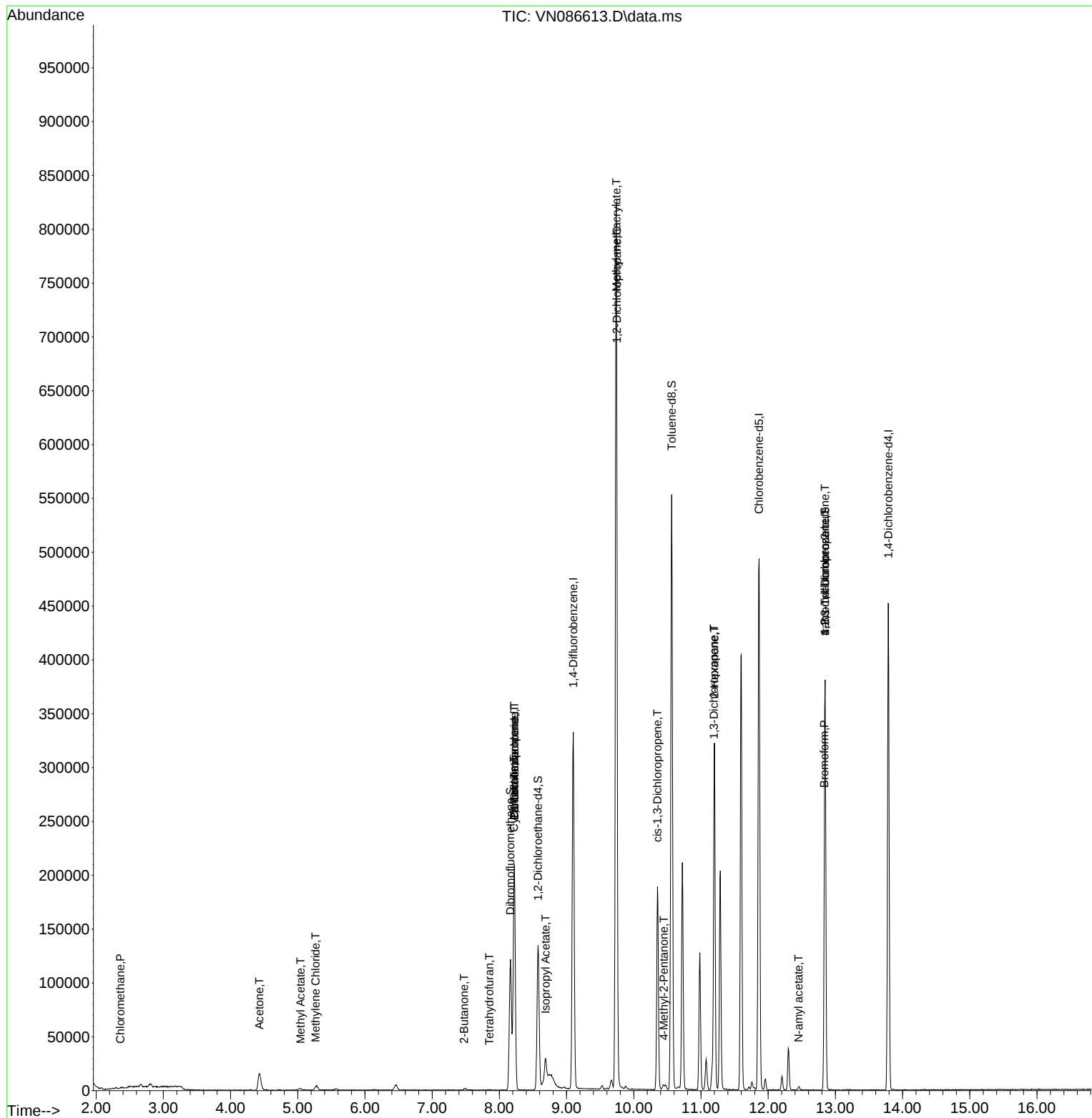
Internal Standards						
1) Pentafluorobenzene	8.224	168	152681	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	291982	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119797	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111005	50.138	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.280%		
35) Dibromofluoromethane	8.165	113	88766	65.504	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 131.000%#		
50) Toluene-d8	10.565	98	385566	53.237	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 106.480%		
62) 4-Bromofluorobenzene	12.847	95	136408	51.638	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.280%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	528	0.201	ug/l #	42
16) Acetone	4.430	43	31500	36.272	ug/l	98
18) Methyl Acetate	5.041	43	3735	1.405	ug/l #	81
20) Methylene Chloride	5.265	84	1780	0.870	ug/l #	75
25) 2-Butanone	7.477	43	2900	2.104	ug/l	98
29) Tetrahydrofuran	7.853	42	626	0.679	ug/l #	32
31) Cyclohexane	8.218	56	3350	0.934	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12119	4.477	ug/l #	49
38) Carbon Tetrachloride	8.224	117	15881	6.161	ug/l #	14
43) Isopropyl Acetate	8.688	43	43455	6.754	ug/l #	75
45) 1,2-Dichloropropane	9.747	63	988	0.465	ug/l #	43
48) Methyl methacrylate	9.741	41	74168	29.639	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	3075	1.054	ug/l	100
54) cis-1,3-Dichloropropene	10.353	75	34893	9.742	ug/l #	62
57) 1,3-Dichloropropane	11.194	76	3112	0.901	ug/l #	43
59) 2-Hexanone	11.200	43	61190	28.272	ug/l #	42
71) Bromoform	12.835	173	839	0.516	ug/l #	1
74) N-amyl acetate	12.453	43	2953	0.605	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69351	24.531	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69351	58.915	ug/l #	10

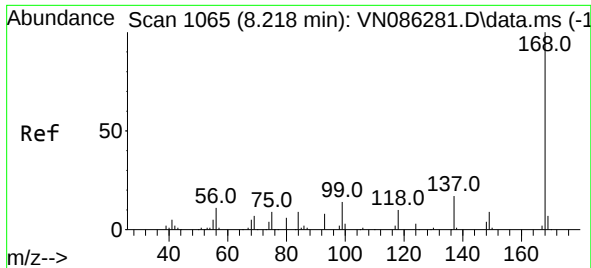
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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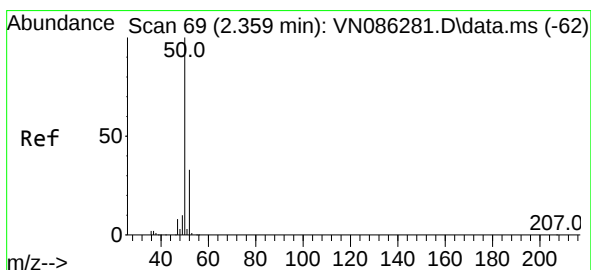
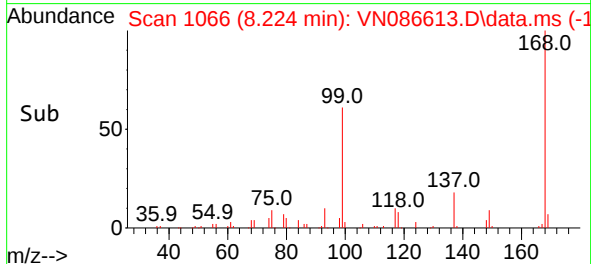
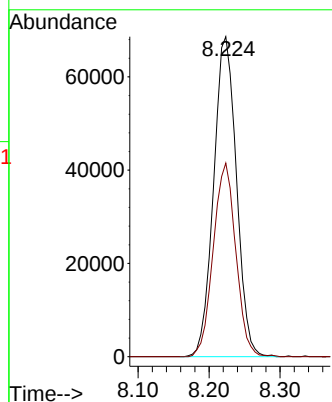
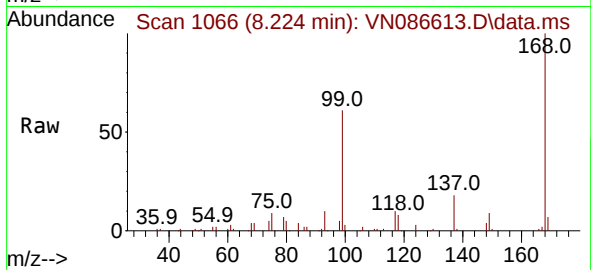




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

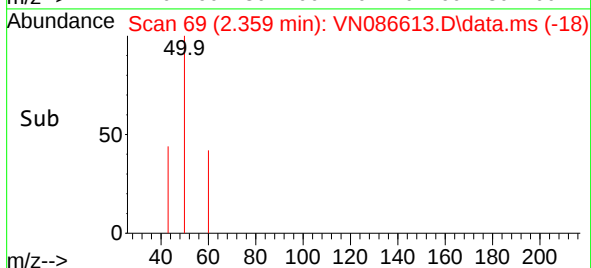
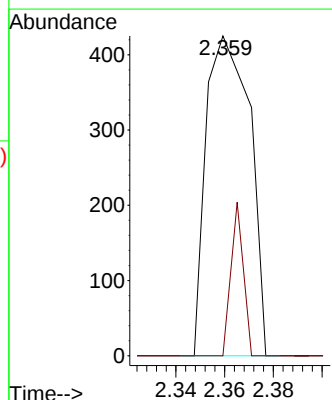
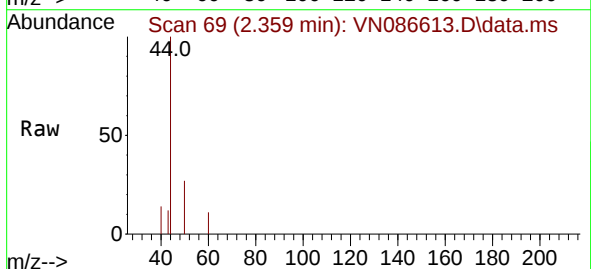
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

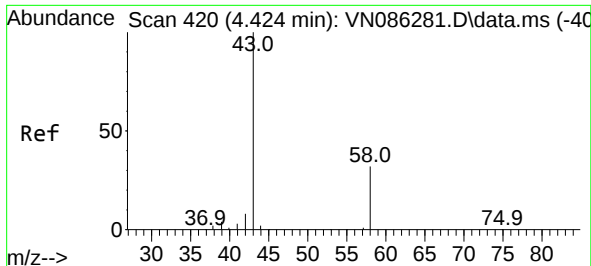
Tgt Ion:168 Resp: 152681
Ion Ratio Lower Upper
168 100
99 60.5 52.5 78.7



#3
Chloromethane
Concen: 0.201 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 50 Resp: 528
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#





#16

Acetone

Concen: 36.272 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086613.D

Acq: 13 May 2025 19:50

Instrument :

MSVOA_N

ClientSampleId :

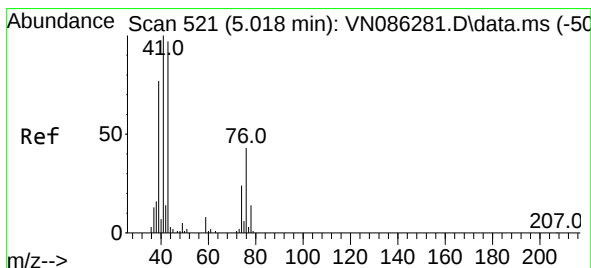
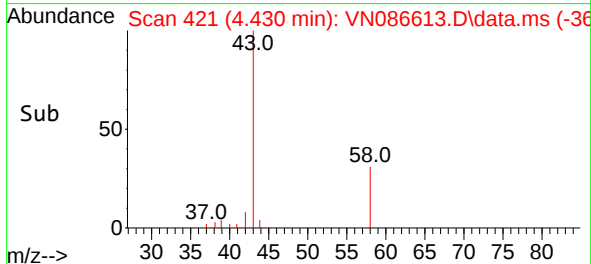
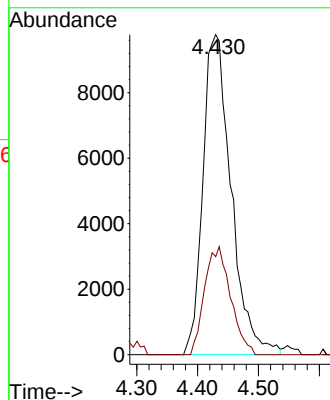
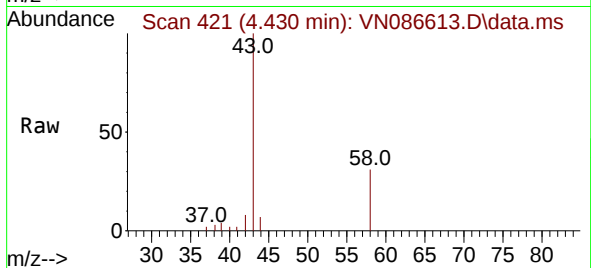
PB167964ZHE#11

Tgt Ion: 43 Resp: 31500

Ion Ratio Lower Upper

43 100

58 30.6 25.3 37.9



#18

Methyl Acetate

Concen: 1.405 ug/l

RT: 5.041 min Scan# 525

Delta R.T. 0.023 min

Lab File: VN086613.D

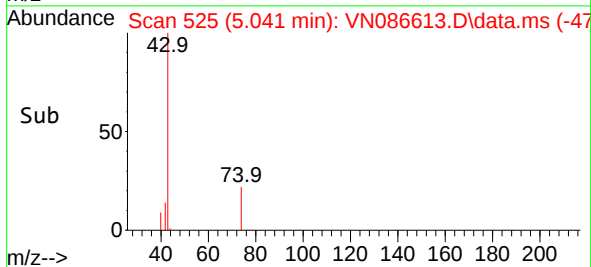
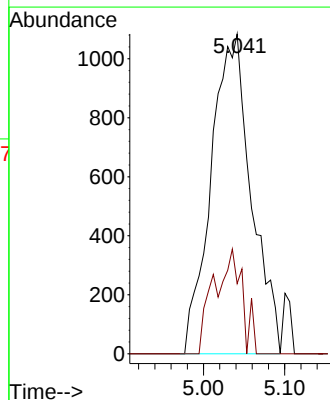
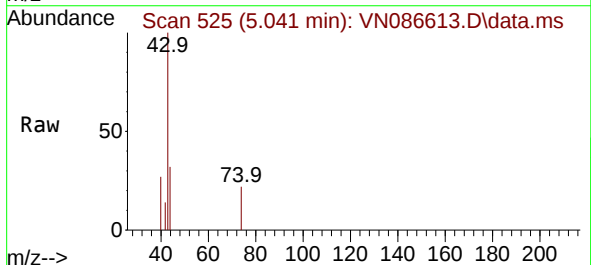
Acq: 13 May 2025 19:50

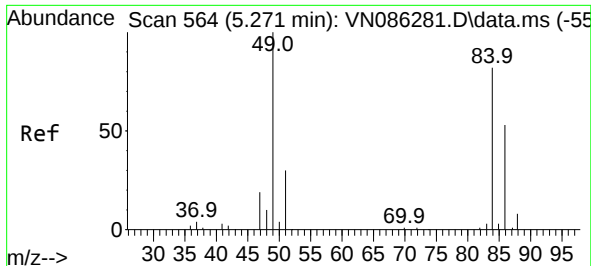
Tgt Ion: 43 Resp: 3735

Ion Ratio Lower Upper

43 100

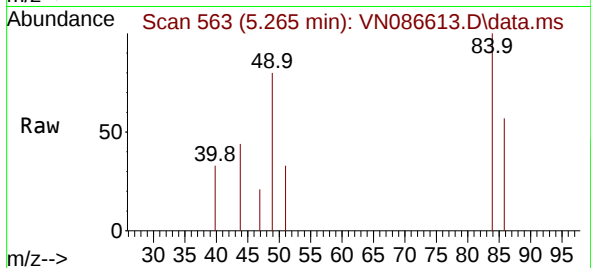
74 15.1 19.8 29.6#



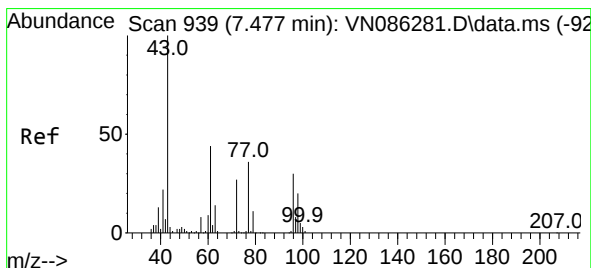
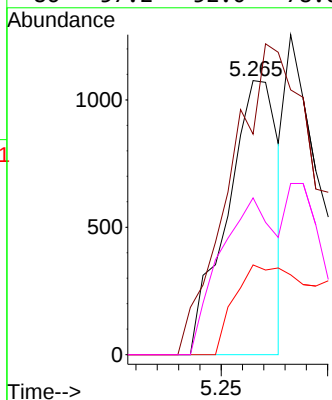


#20
Methylene Chloride
Concen: 0.870 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

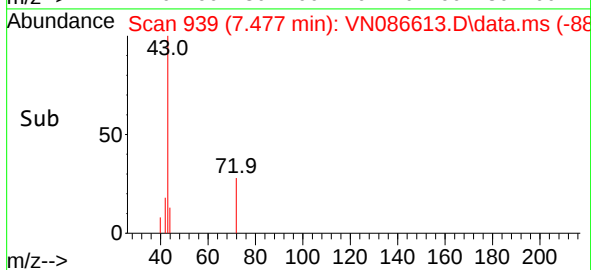
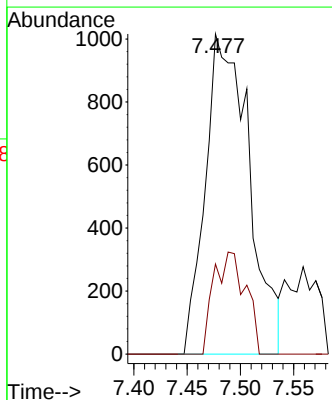
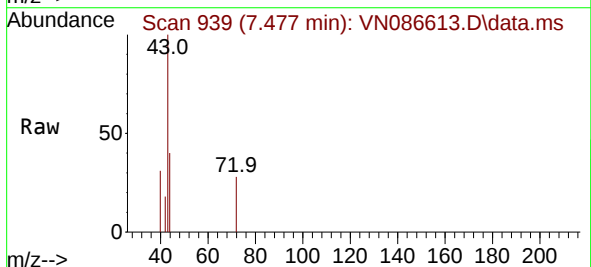


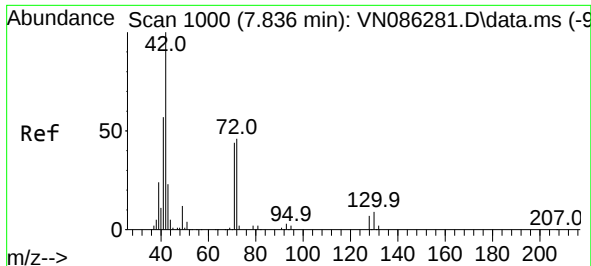
Tgt Ion	84	Resp:	1780
Ion	Ratio	Lower	Upper
84	100		
49	80.4	98.2	147.2#
51	32.7	29.8	44.6
86	57.2	52.0	78.0



#25
2-Butanone
Concen: 2.104 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion	43	Resp:	2900
Ion	Ratio	Lower	Upper
43	100		
72	28.1	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.679 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

Lab File: VN086613.D

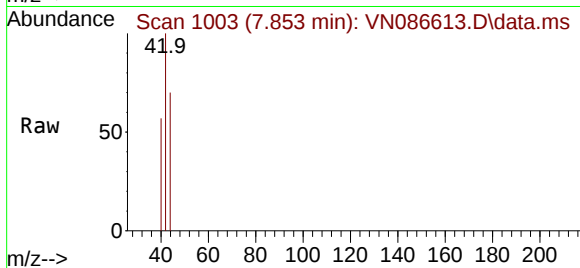
Acq: 13 May 2025 19:50

Instrument :

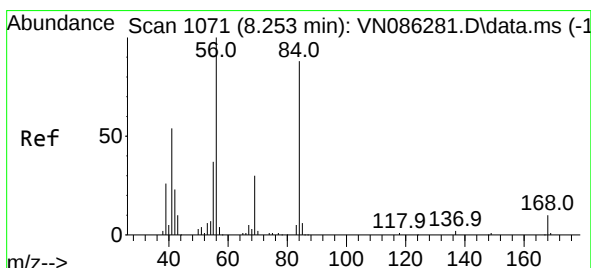
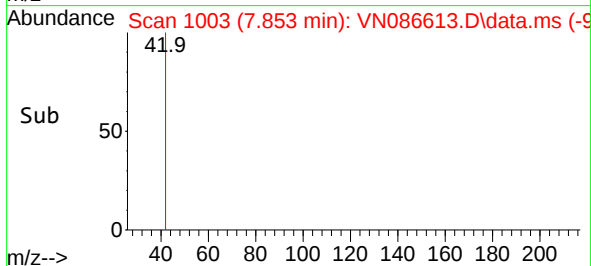
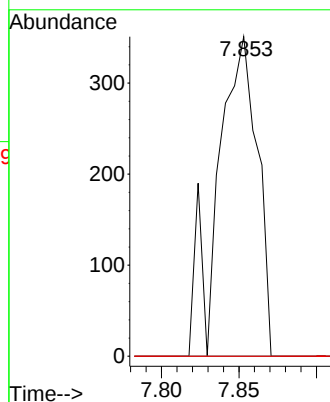
MSVOA_N

ClientSampleId :

PB167964ZHE#11



Tgt Ion:	42	Resp:	626
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.934 ug/l

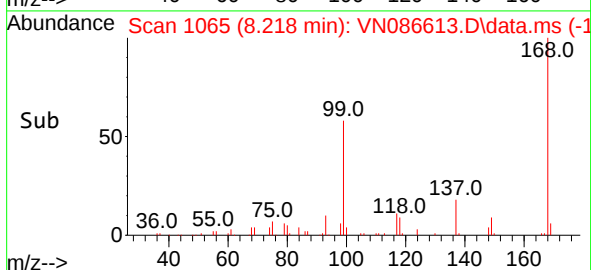
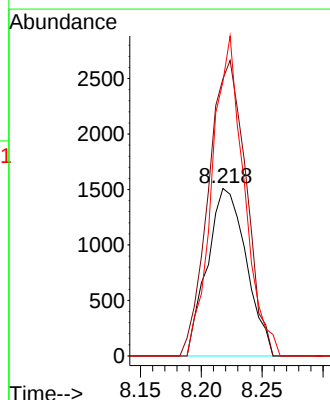
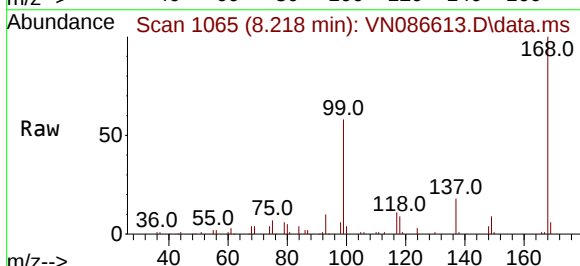
RT: 8.218 min Scan# 1065

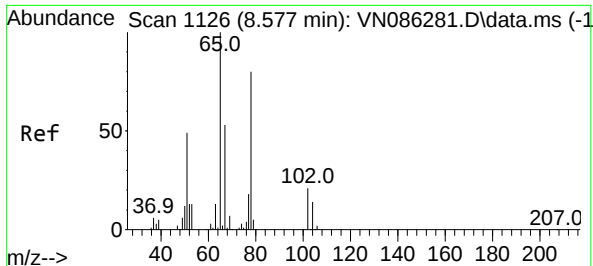
Delta R.T. -0.035 min

Lab File: VN086613.D

Acq: 13 May 2025 19:50

Tgt Ion:	56	Resp:	3350
Ion Ratio	Lower	Upper	
56	100		
69	165.4	24.2	36.2#
84	163.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.138 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086613.D

Acq: 13 May 2025 19:50

Instrument :

MSVOA_N

ClientSampleId :

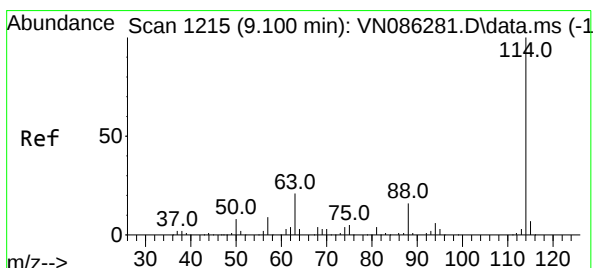
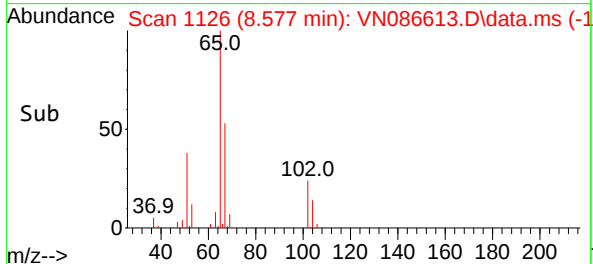
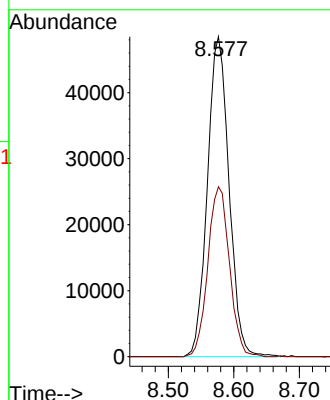
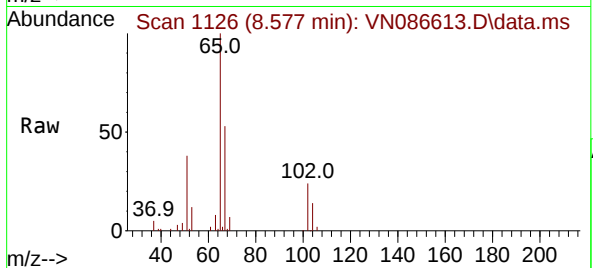
PB167964ZHE#11

Tgt Ion: 65 Resp: 111005

Ion Ratio Lower Upper

65 100

67 53.1 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: VN086613.D

Acq: 13 May 2025 19:50

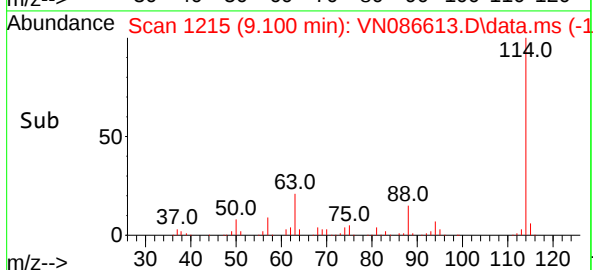
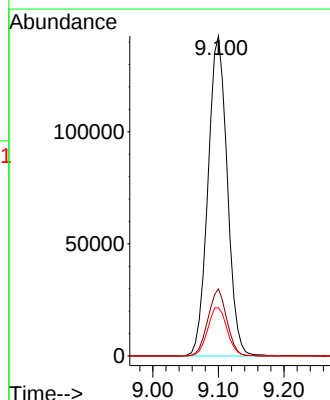
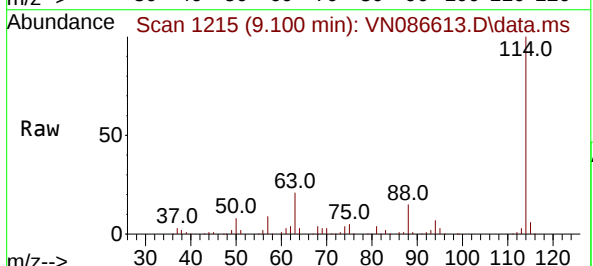
Tgt Ion: 114 Resp: 291982

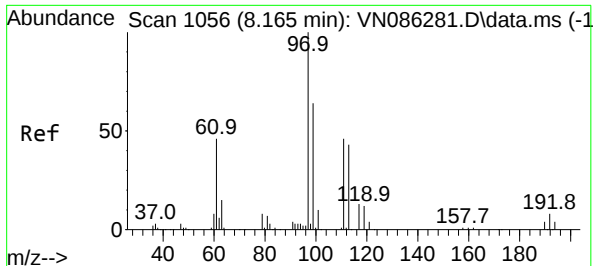
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

88 15.0 0.0 31.8

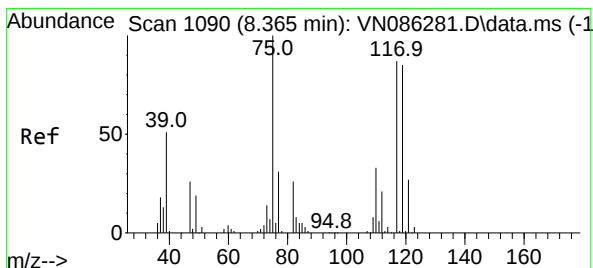
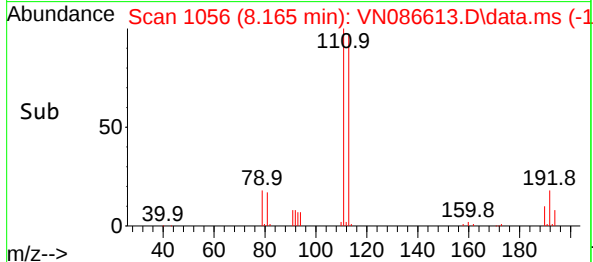
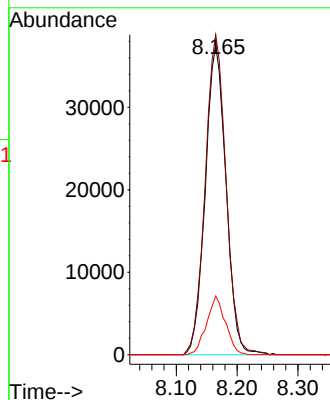
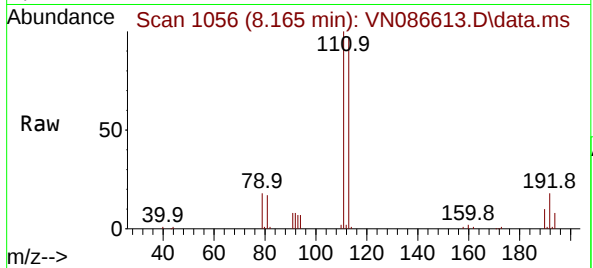




#35
Dibromofluoromethane
Concen: 65.504 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

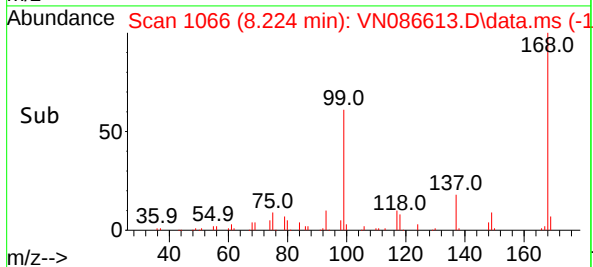
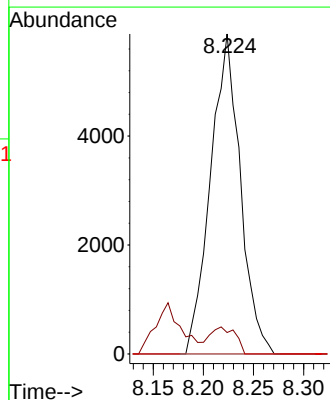
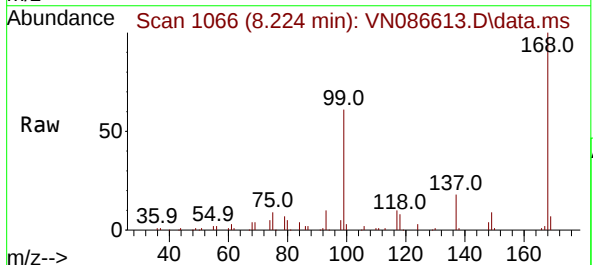
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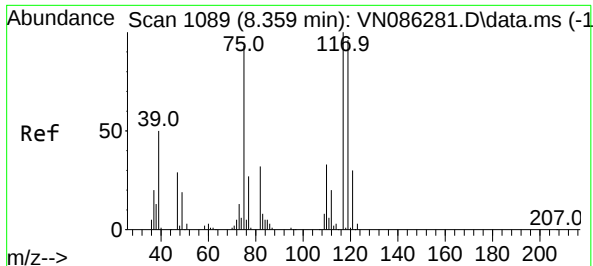
Tgt Ion:113 Resp: 88766
Ion Ratio Lower Upper
113 100
111 103.9 83.4 125.0
192 17.3 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.477 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 75 Resp: 12119
Ion Ratio Lower Upper
75 100
110 7.6 16.8 50.4#
77 0.0 24.9 37.3#

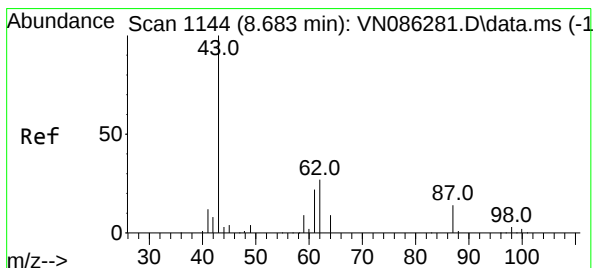
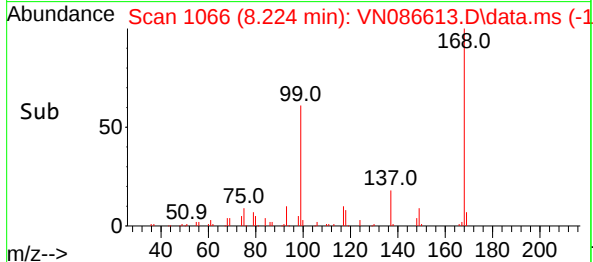
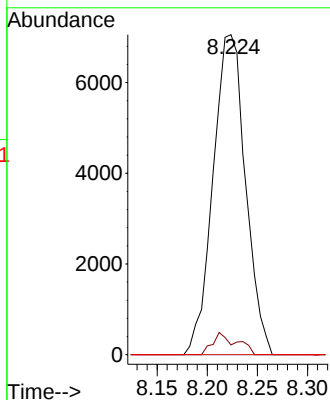
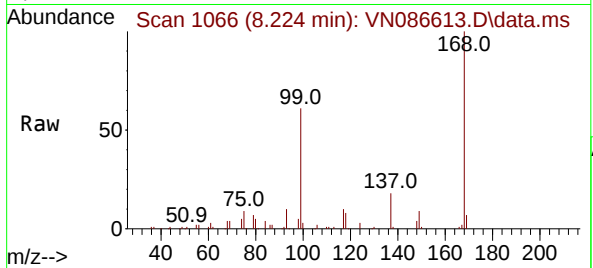




#38
Carbon Tetrachloride
Concen: 6.161 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

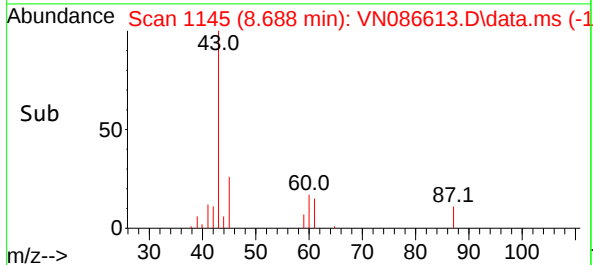
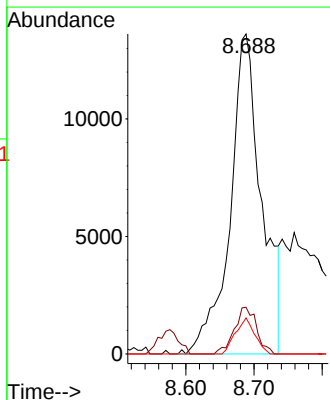
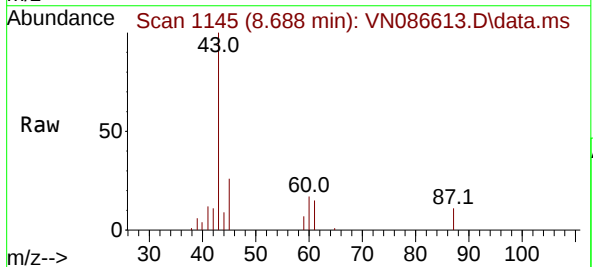
Instrument :
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ClientSampleId :
PB167964ZHE#11

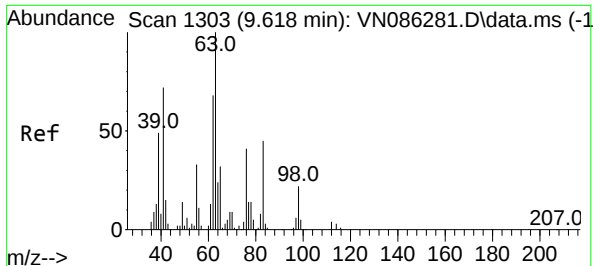
Tgt Ion:117 Resp: 15881
Ion Ratio Lower Upper
117 100
119 3.0 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.754 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 43 Resp: 43455
Ion Ratio Lower Upper
43 100
61 10.3 20.5 30.7#
87 6.9 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.465 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.129 min

Lab File: VN086613.D

Acq: 13 May 2025 19:50

Instrument :

MSVOA_N

ClientSampleId :

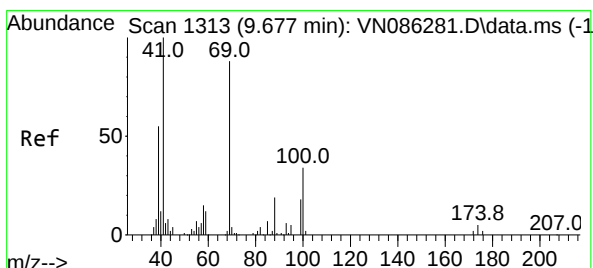
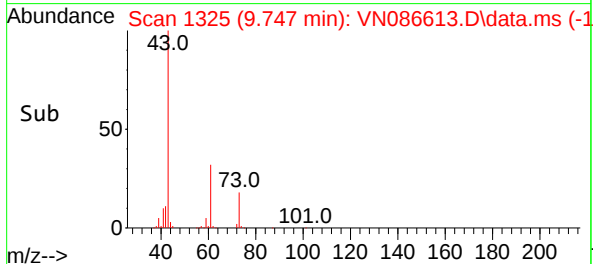
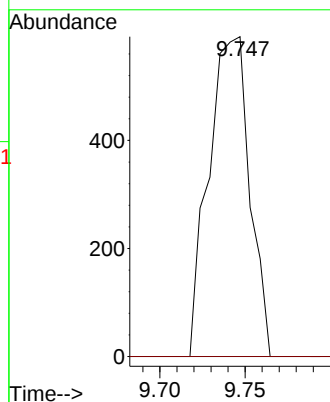
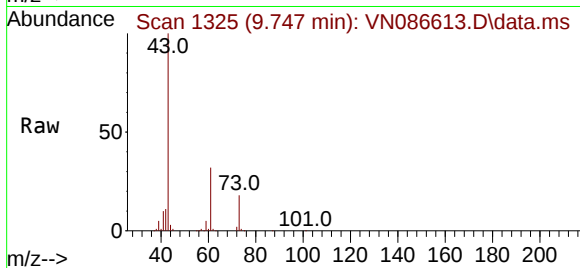
PB167964ZHE#11

Tgt Ion: 63 Resp: 988

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 29.639 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086613.D

Acq: 13 May 2025 19:50

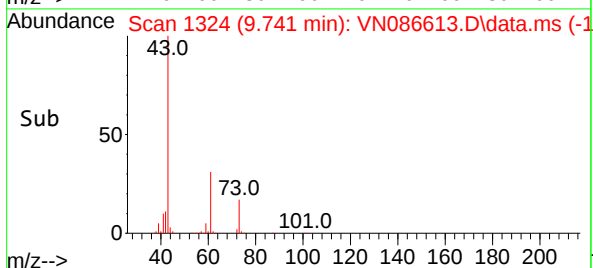
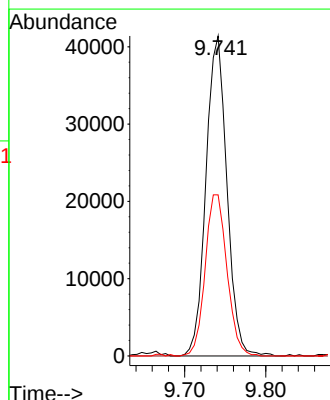
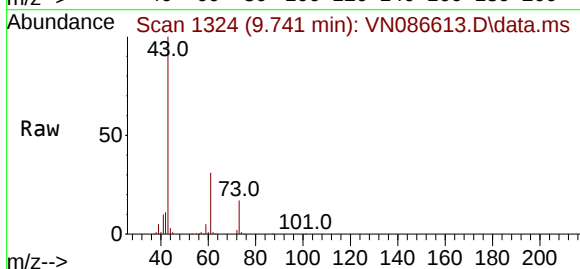
Tgt Ion: 41 Resp: 74168

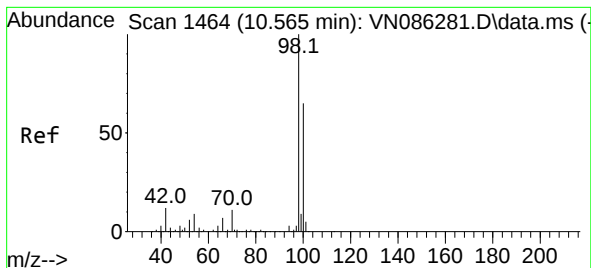
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.4 45.2 67.8

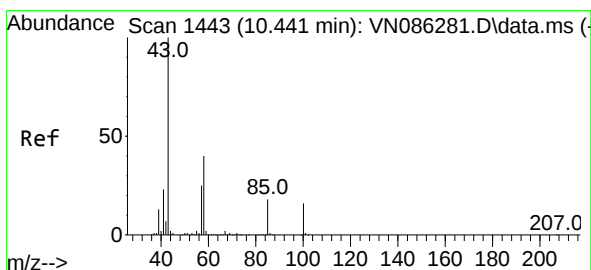
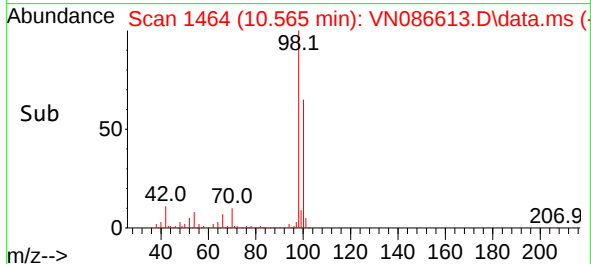
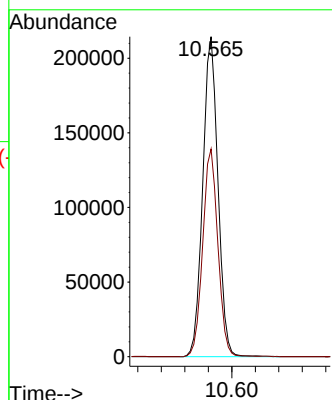
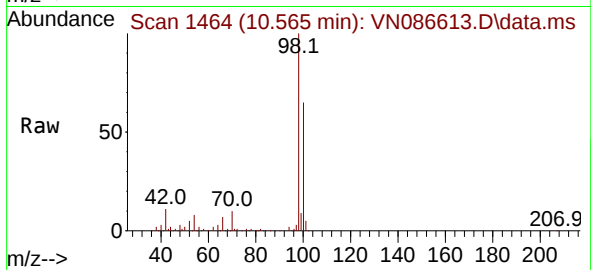




#50
Toluene-d8
Concen: 53.237 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

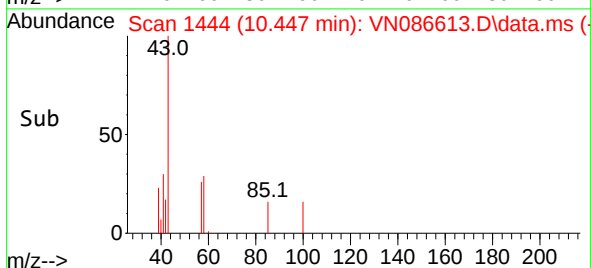
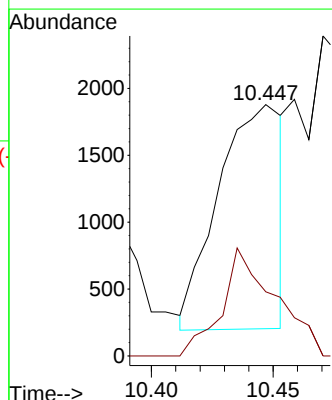
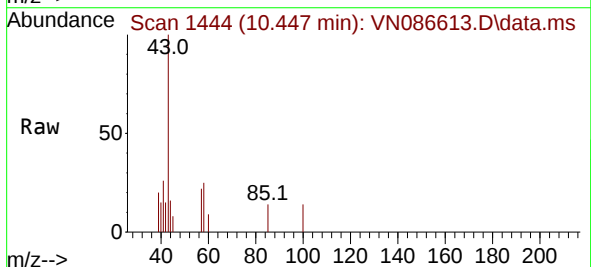
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

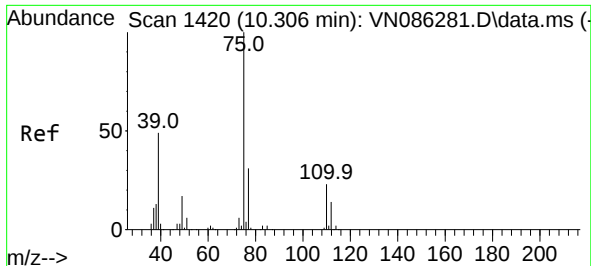
Tgt Ion: 98 Resp: 385566
Ion Ratio Lower Upper
98 100
100 64.7 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.054 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 43 Resp: 3075
Ion Ratio Lower Upper
43 100
58 40.2 32.2 48.4

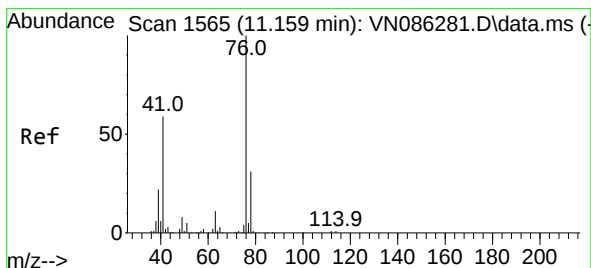
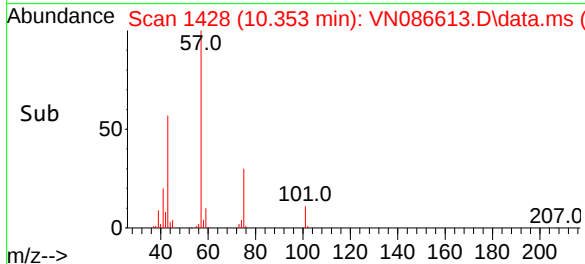
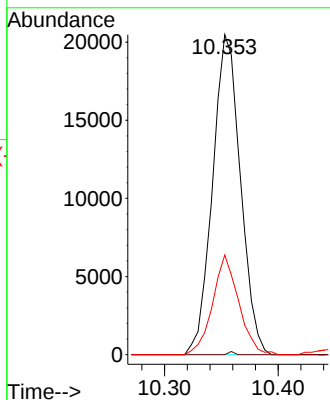
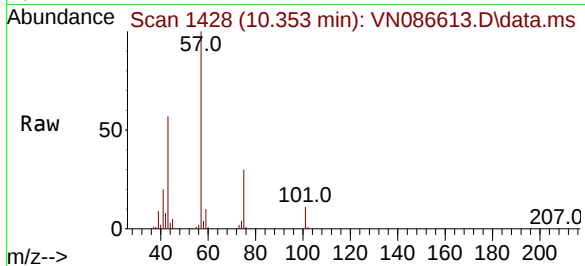




#54
 cis-1,3-Dichloropropene
 Concen: 9.742 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086613.D
 Acq: 13 May 2025 19:50

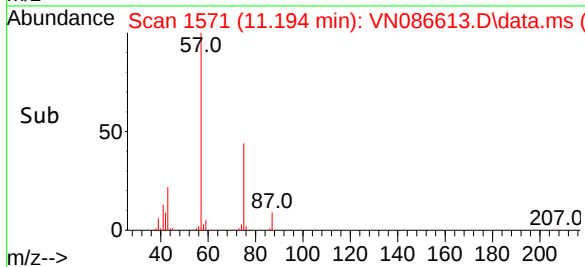
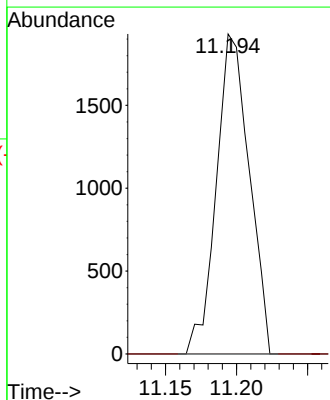
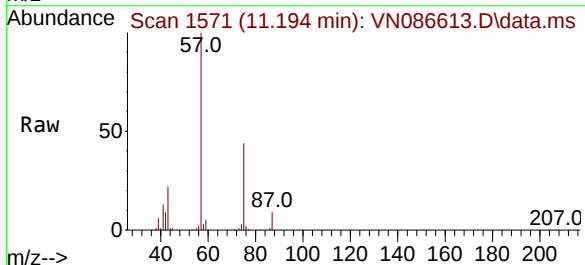
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#11

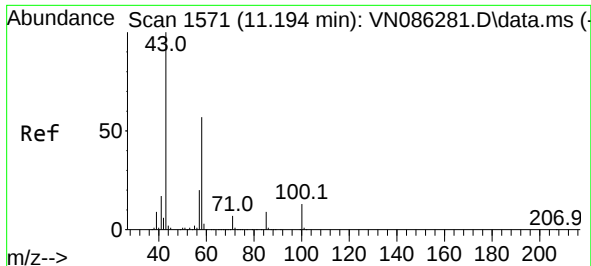
Tgt Ion: 75 Resp: 34893
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 31.1 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.901 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086613.D
 Acq: 13 May 2025 19:50

Tgt Ion: 76 Resp: 3112
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

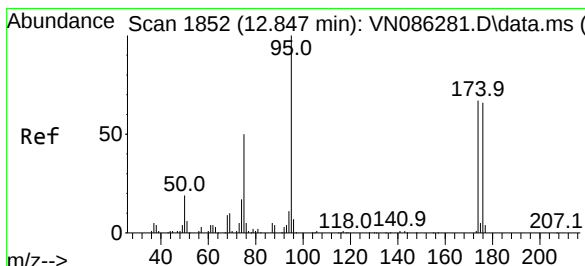
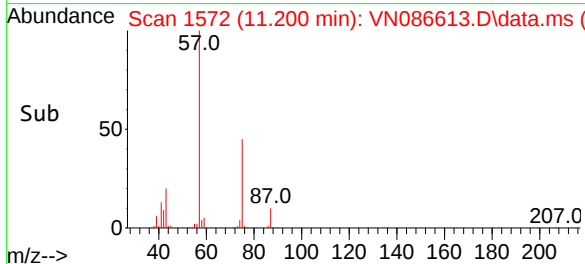
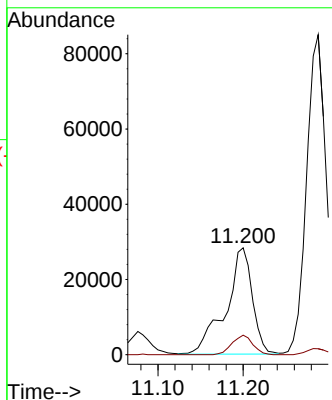
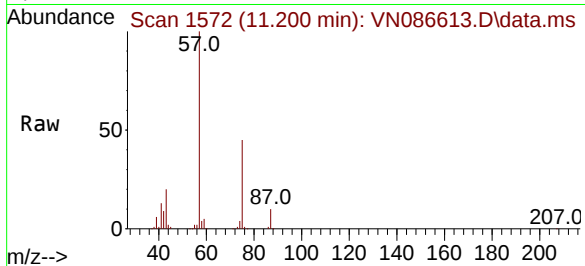




#59
2-Hexanone
Concen: 28.272 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

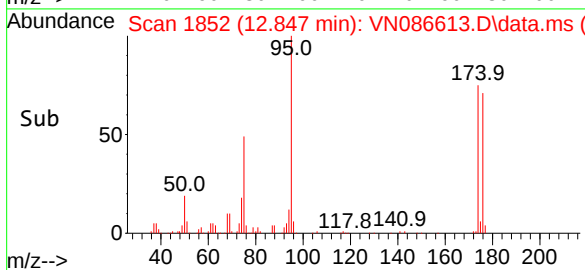
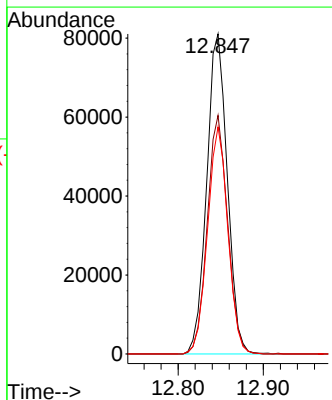
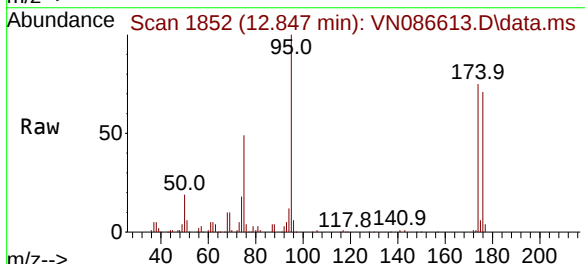
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

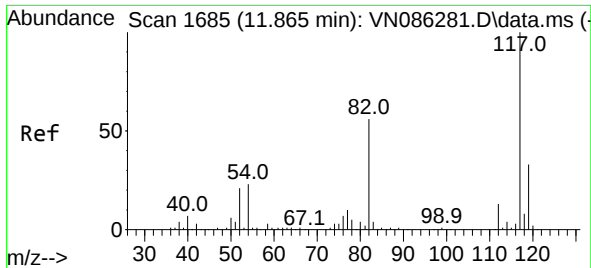
Tgt Ion: 43 Resp: 61190
Ion Ratio Lower Upper
43 100
58 14.3 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 51.638 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 95 Resp: 136408
Ion Ratio Lower Upper
95 100
174 73.7 0.0 133.4
176 70.0 0.0 129.2

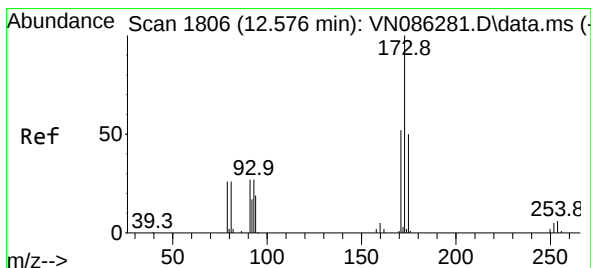
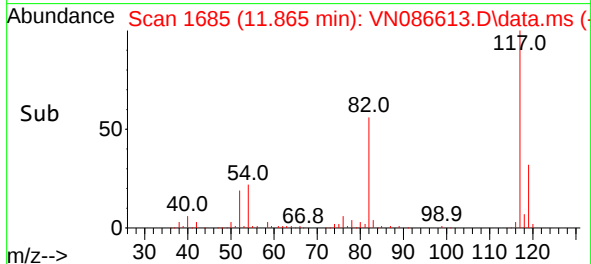
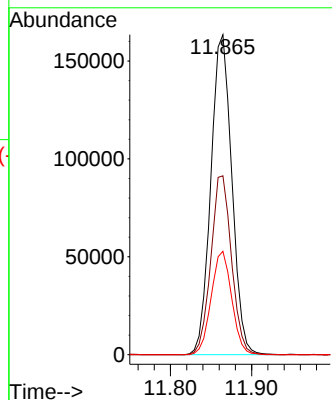
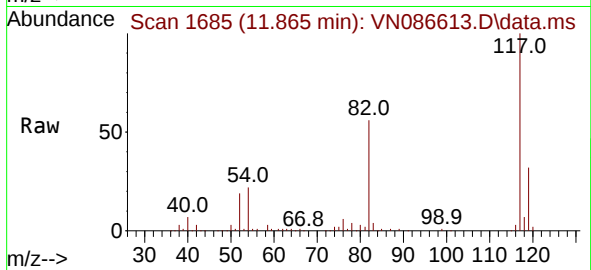




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

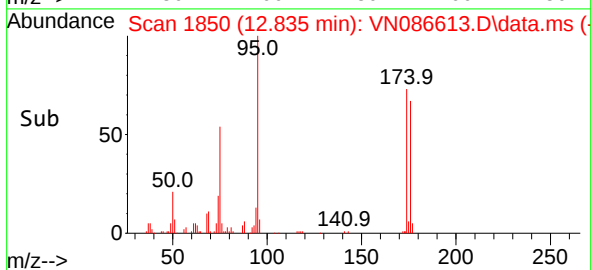
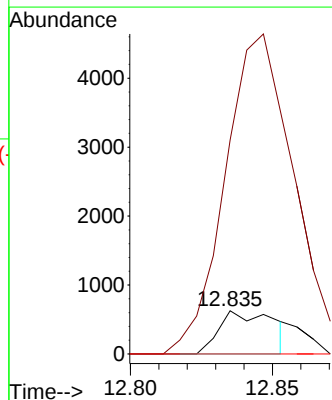
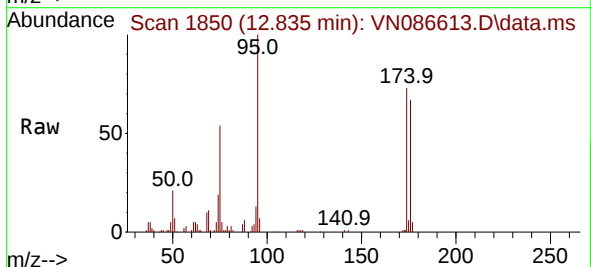
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

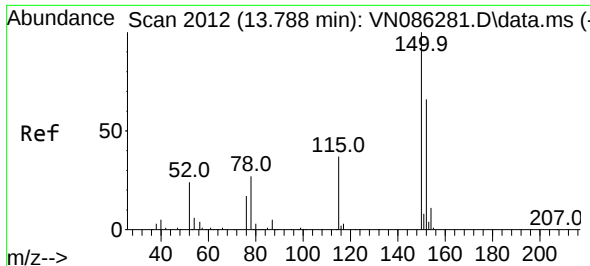
Tgt Ion:117 Resp: 293471
Ion Ratio Lower Upper
117 100
82 55.9 44.7 67.1
119 32.3 26.4 39.6



#71
Bromoform
Concen: 0.516 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.259 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion:173 Resp: 839
Ion Ratio Lower Upper
173 100
175 751.7 24.6 73.6#
254 0.0 0.0 0.0

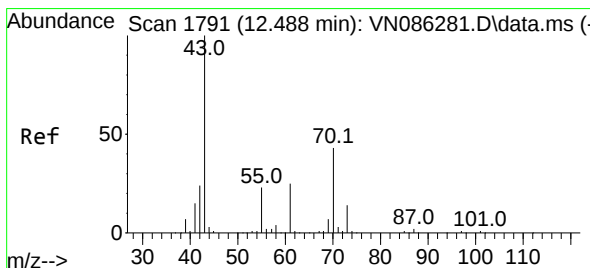
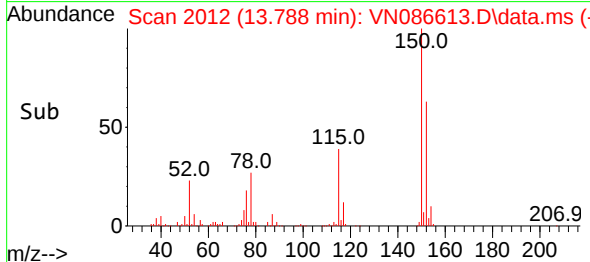
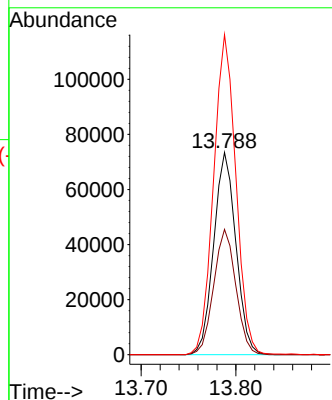
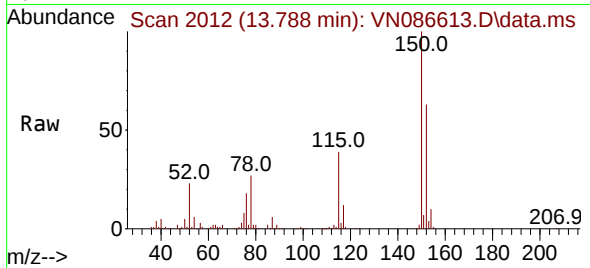




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

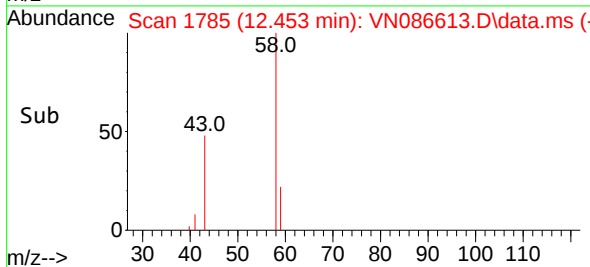
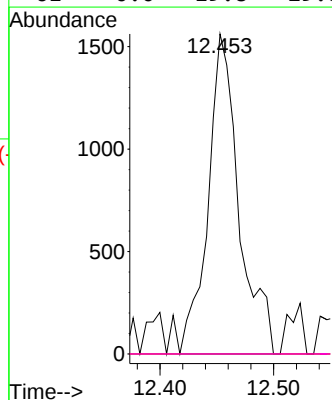
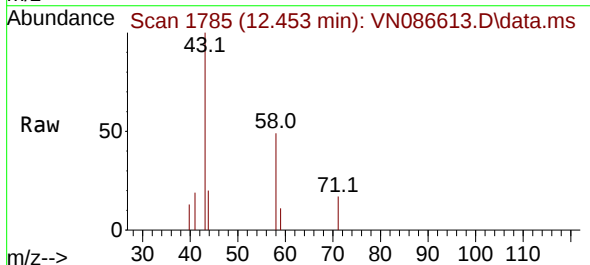
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

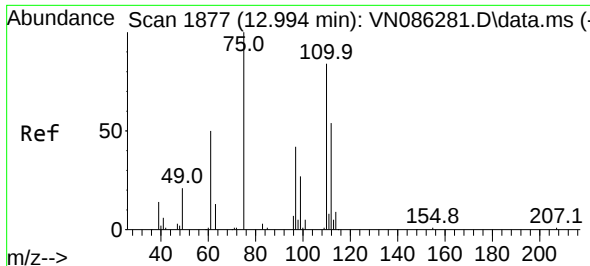
Tgt Ion:152 Resp: 119797
Ion Ratio Lower Upper
152 100
115 61.8 31.9 95.9
150 159.1 0.0 352.0



#74
N-ethyl acetate
Concen: 0.605 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 43 Resp: 2953
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 0.0 19.0 28.4#
61 0.0 19.8 29.8#

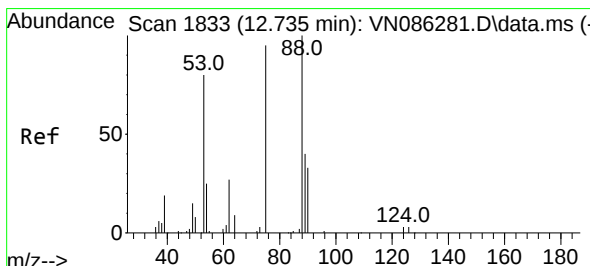
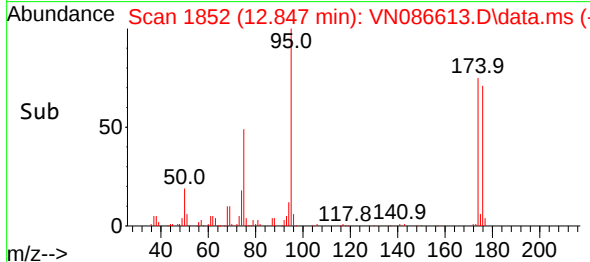
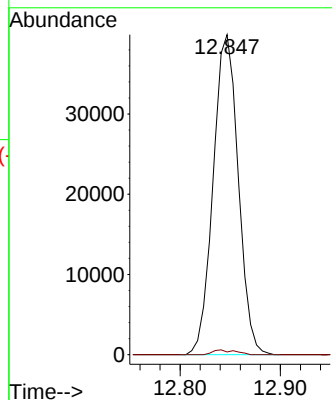
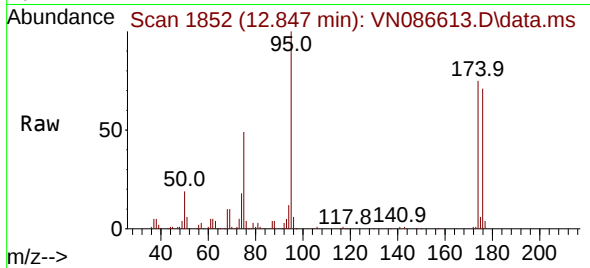




#76
1,2,3-Trichloropropane
Concen: 24.531 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#11

Tgt Ion: 75 Resp: 69351
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.915 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086613.D
Acq: 13 May 2025 19:50

Tgt Ion: 75 Resp: 69351
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

