

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086273.D
 Acq On : 14 Apr 2025 16:50
 Operator : JC\MD
 Sample : PB167573ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#05

Quant Time: Apr 15 03:13:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

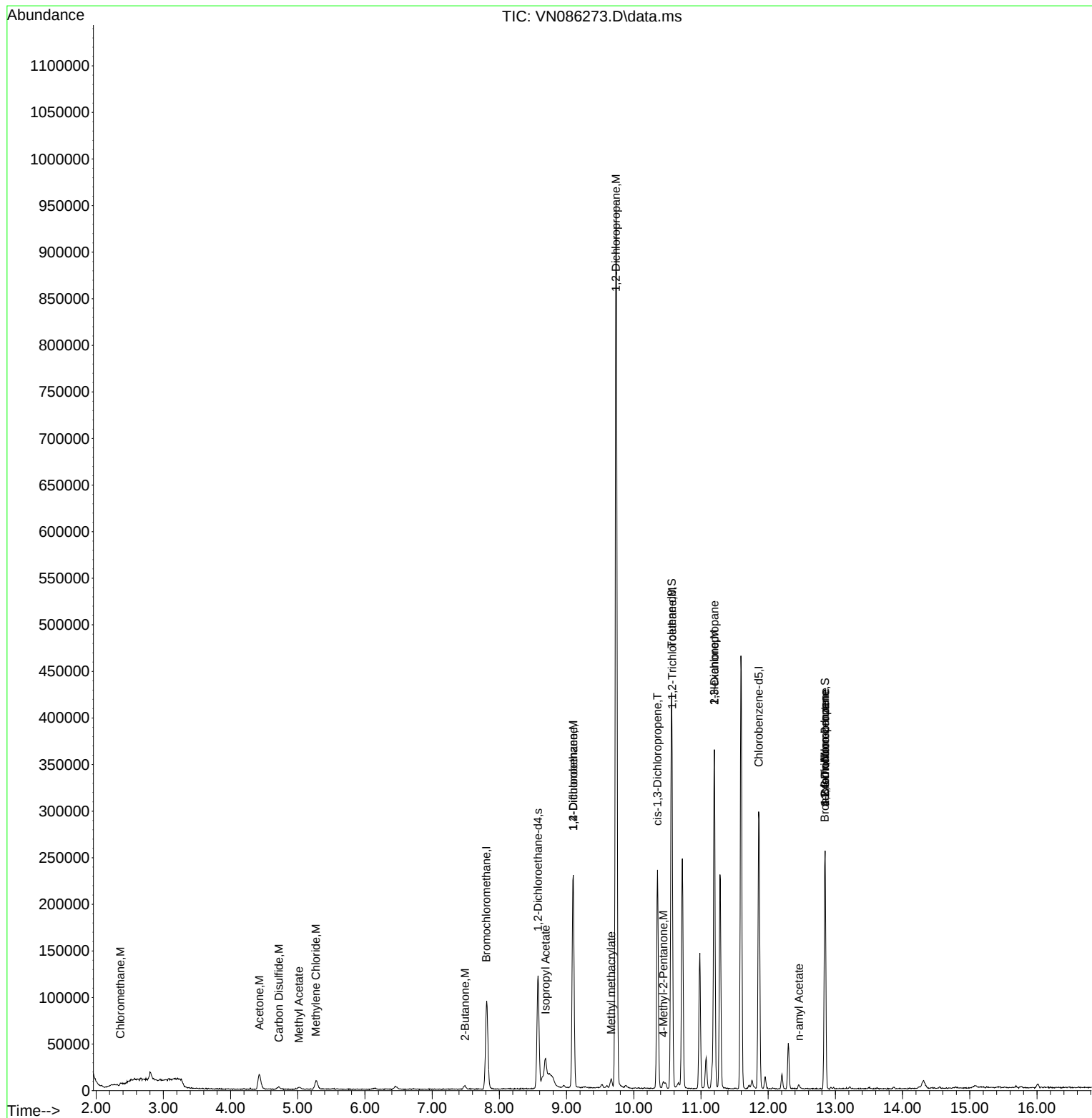
Internal Standards						
1) Bromochloromethane	7.806	128	33692	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	200446	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	176246	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	98646	30.018	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.067%
60) 4-Bromofluorobenzene	12.847	95	97166	27.691	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.300%
63) Toluene-d8	10.565	98	300625	30.213	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	843	0.226	ug/l	90
12) Methyl Acetate	5.018	43	5613	1.549	ug/l	97
15) Acetone	4.430	58	9810	25.297	ug/l	85
16) Carbon Disulfide	4.718	76	4891	0.665	ug/l	97
18) Methylene Chloride	5.271	84	7154	2.446	ug/l	94
30) 2-Butanone	7.488	43	6368	3.200	ug/l	96
36) 1,2-Dichloroethane	9.100	62	6902	1.931	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1250	0.440	ug/l #	42
44) Isopropyl Acetate	8.688	43	56240	7.554	ug/l #	68
46) Methyl methacrylate	9.665	41	1090	0.332	ug/l #	28
47) n-amyl Acetate	12.459	43	3160	0.535	ug/l #	66
49) cis-1,3-Dichloropropene	10.353	75	45181	9.574	ug/l #	58
50) 1,1,2-Trichloroethane	10.571	97	9482	3.682	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	3691	0.804	ug/l #	42
56) Bromoform	12.841	173	559	0.303	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	5272	1.318	ug/l	95
59) 2-Hexanone	11.200	43	56647	19.021	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	48645	13.887	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	48645	30.119	ug/l #	12

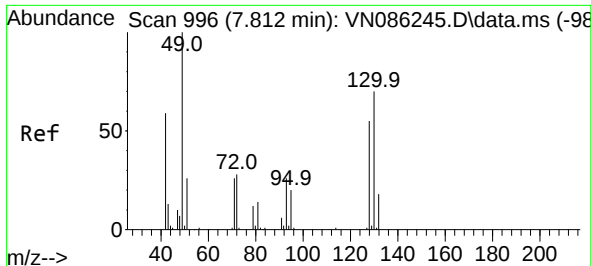
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

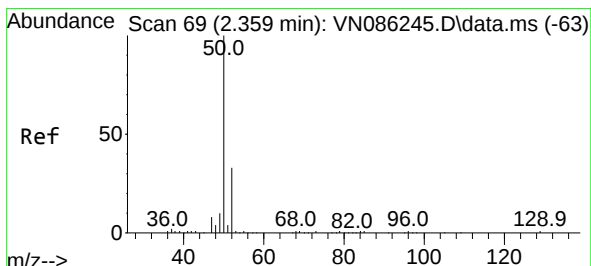
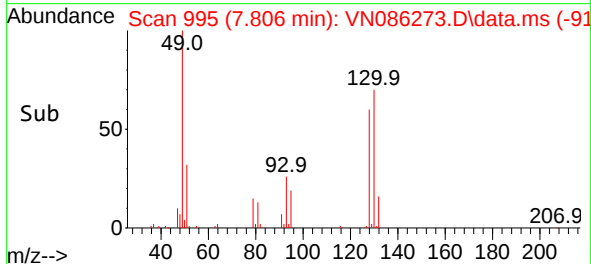
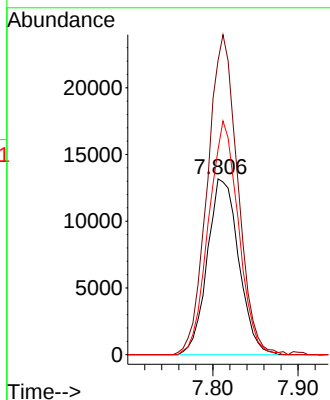
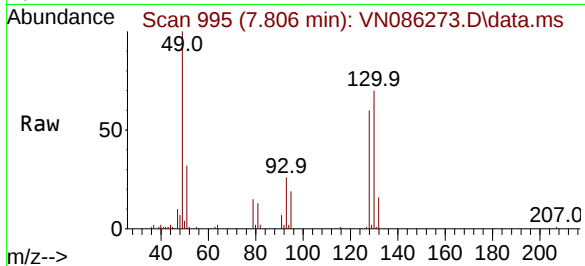




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

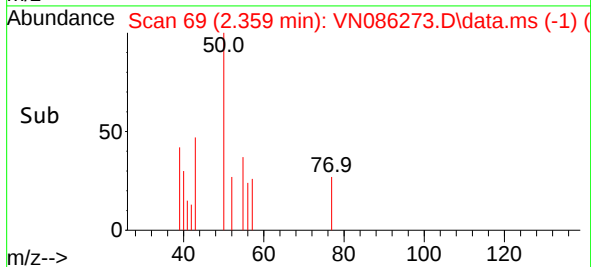
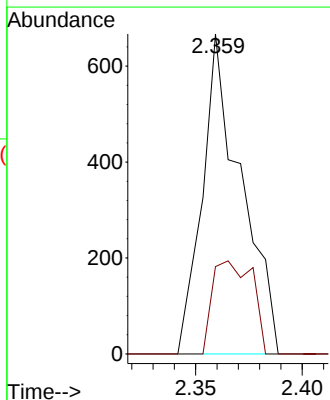
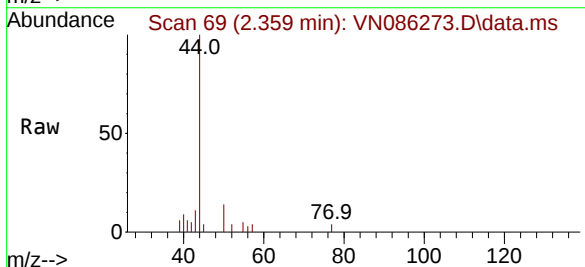
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

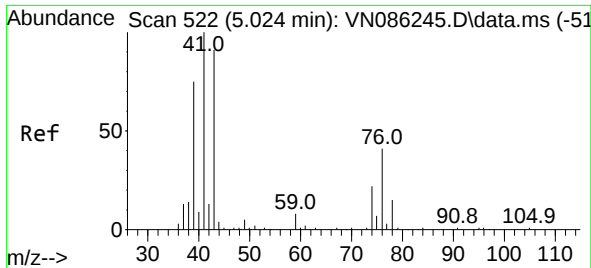
Tgt Ion:128 Resp: 33692
Ion Ratio Lower Upper
128 100
49 175.7 0.0 452.5
130 127.1 0.0 315.0



#3
Chloromethane
Concen: 0.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 50 Resp: 843
Ion Ratio Lower Upper
50 100
52 27.3 26.4 39.6

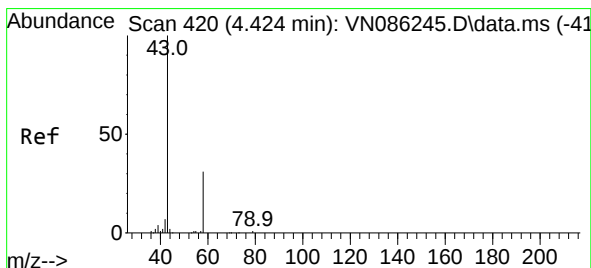
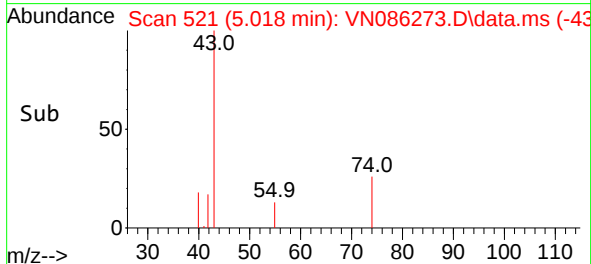
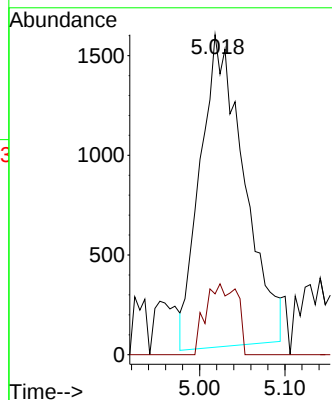
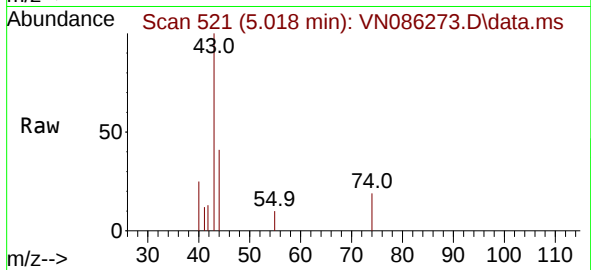




#12
Methyl Acetate
Concen: 1.549 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

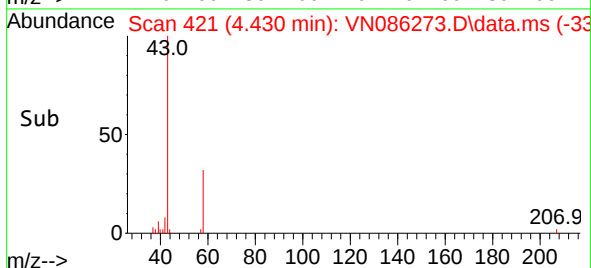
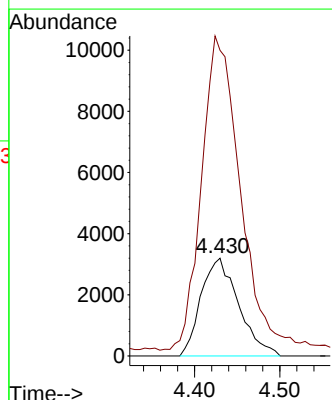
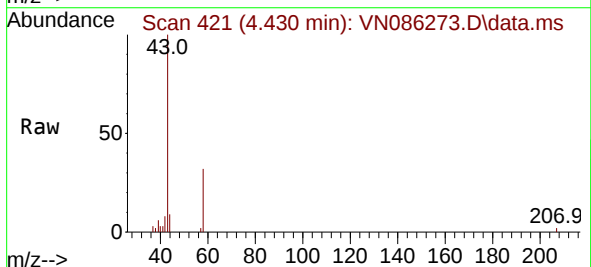
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

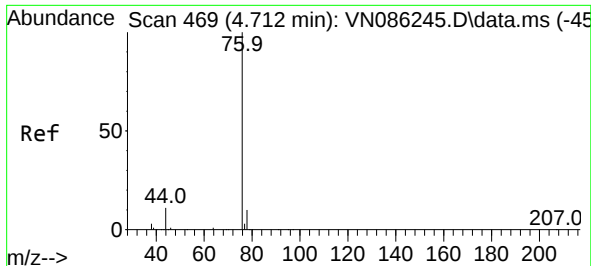
Tgt Ion: 43 Resp: 5613
Ion Ratio Lower Upper
43 100
74 22.5 19.1 28.7



#15
Acetone
Concen: 25.297 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 58 Resp: 9810
Ion Ratio Lower Upper
58 100
43 297.1 261.8 392.8

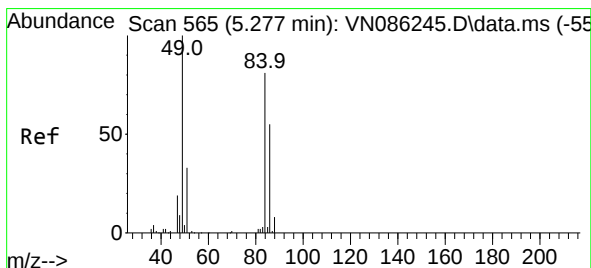
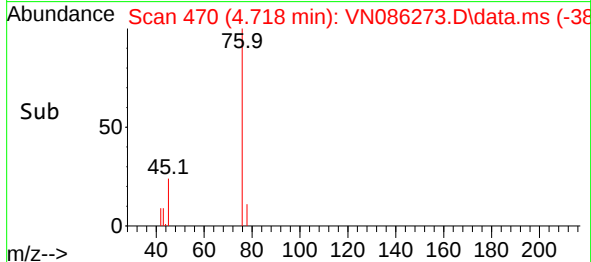
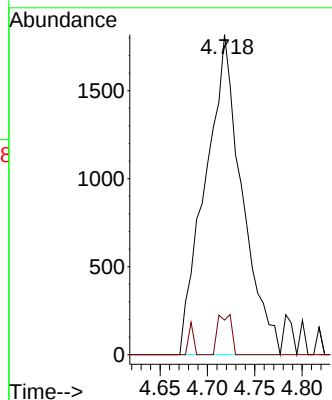
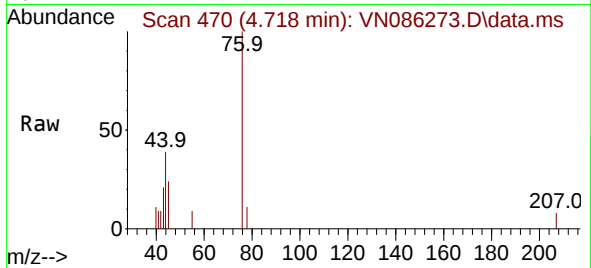




#16
Carbon Disulfide
Concen: 0.665 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

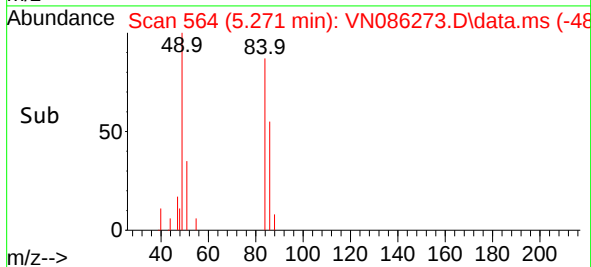
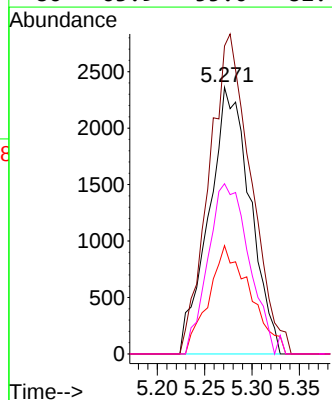
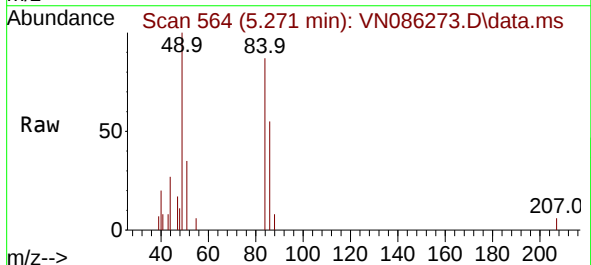
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

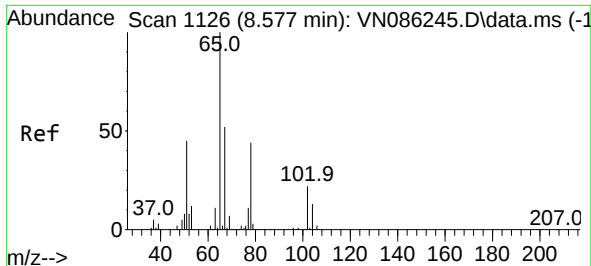
Tgt Ion: 76 Resp: 4891
Ion Ratio Lower Upper
76 100
78 10.8 7.7 11.5



#18
Methylene Chloride
Concen: 2.446 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 84 Resp: 7154
Ion Ratio Lower Upper
84 100
49 115.5 99.1 148.7
51 40.6 32.3 48.5
86 63.9 55.0 82.4

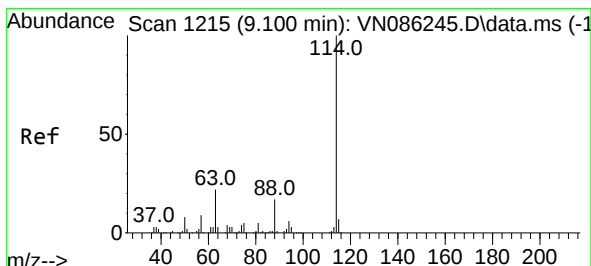
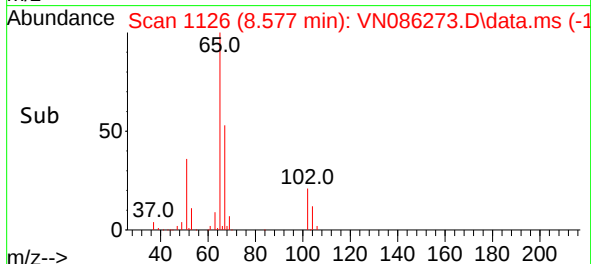
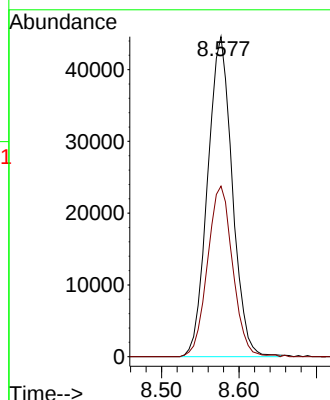
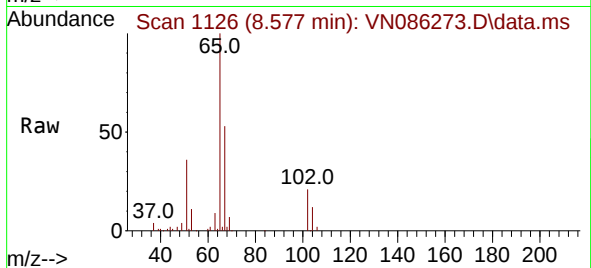




#27
 1,2-Dichloroethane-d4
 Concen: 30.018 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086273.D
 Acq: 14 Apr 2025 16:50

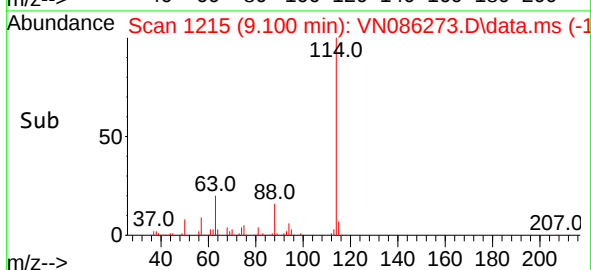
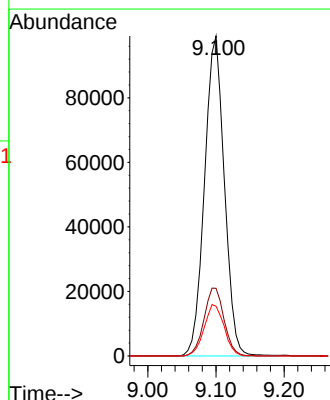
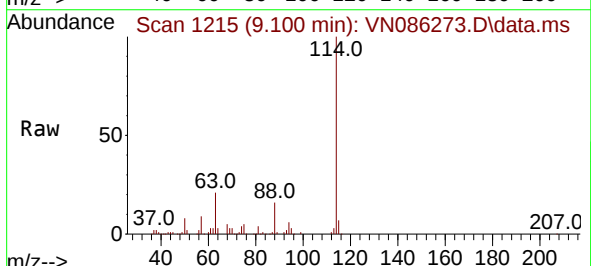
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#05

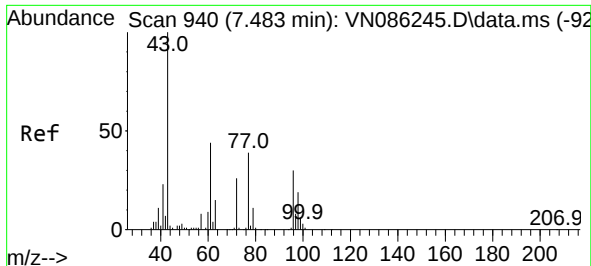
Tgt Ion: 65 Resp: 98646
 Ion Ratio Lower Upper
 65 100
 67 54.2 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086273.D
 Acq: 14 Apr 2025 16:50

Tgt Ion: 114 Resp: 200446
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.8 26.6
 88 16.1 13.4 20.2

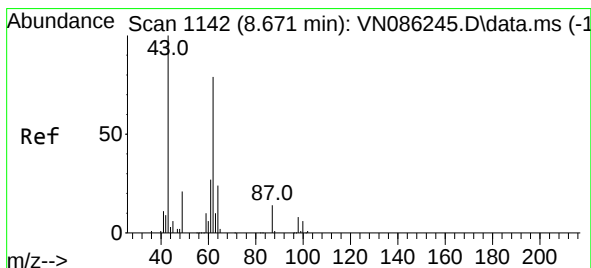
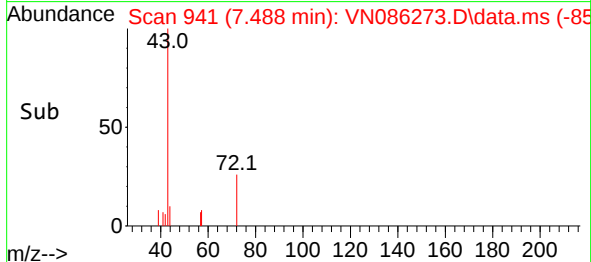
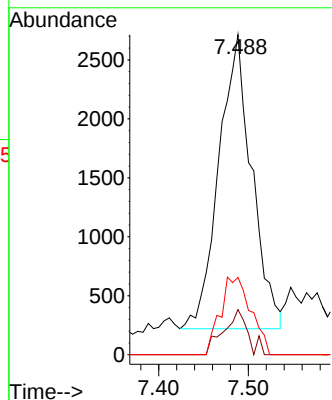
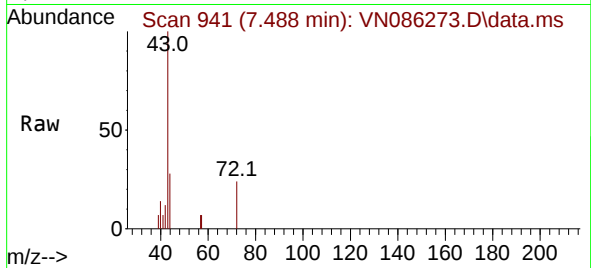




#30
2-Butanone
Concen: 3.200 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

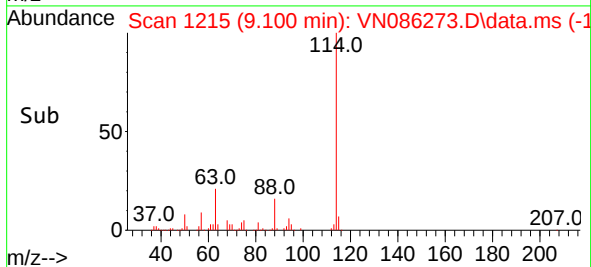
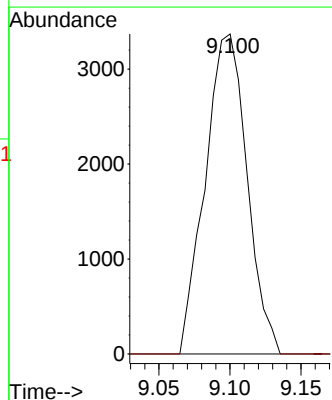
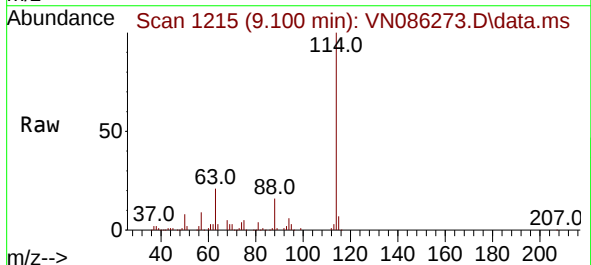
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

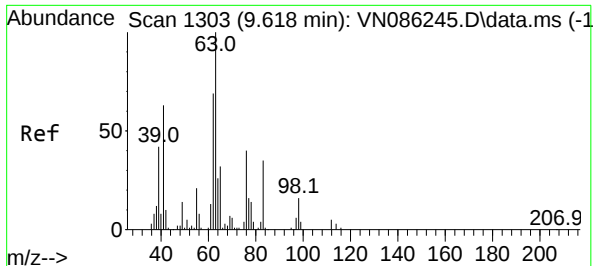
Tgt Ion: 43 Resp: 6368
Ion Ratio Lower Upper
43 100
57 8.5 6.4 9.6
72 24.5 21.5 32.3



#36
1,2-Dichloroethane
Concen: 1.931 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 62 Resp: 6902
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.440 ug/l

RT: 9.735 min Scan# 1145

Delta R.T. 0.117 min

Lab File: VN086273.D

Acq: 14 Apr 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

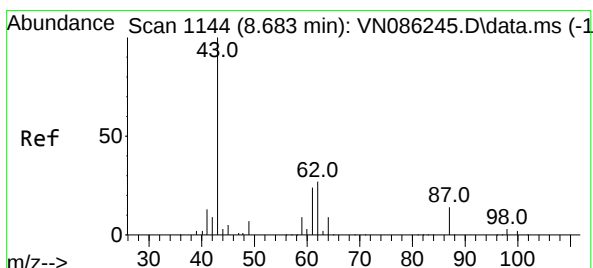
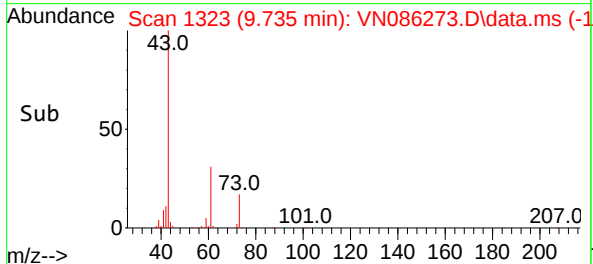
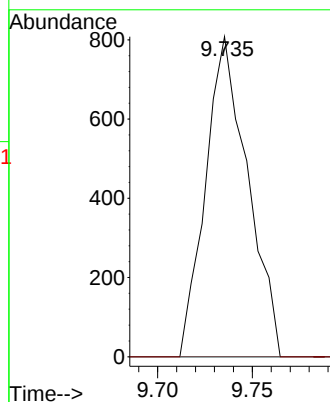
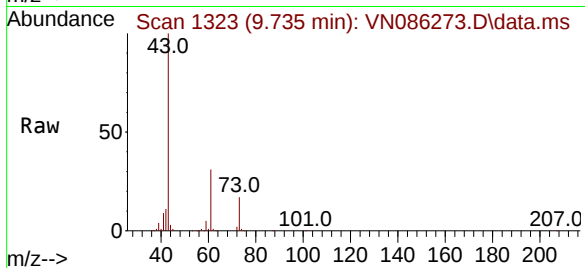
PB167573ZHE#05

Tgt Ion: 63 Resp: 1250

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 7.554 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086273.D

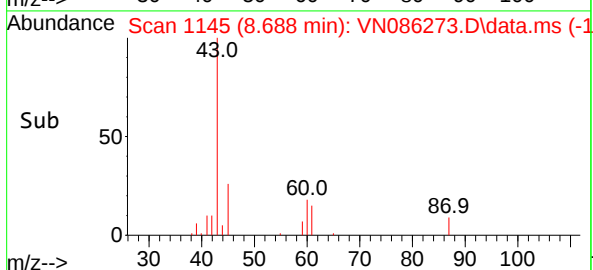
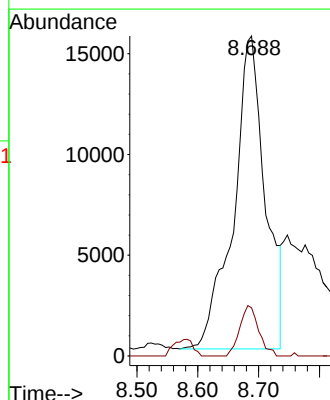
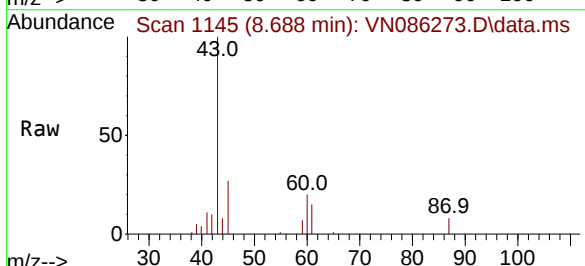
Acq: 14 Apr 2025 16:50

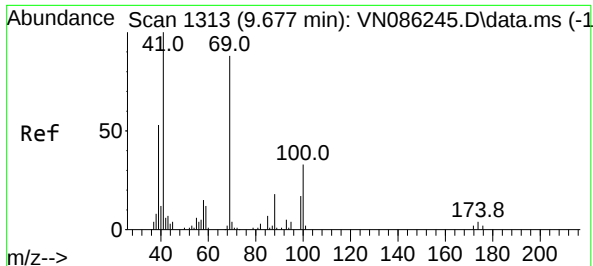
Tgt Ion: 43 Resp: 56240

Ion Ratio Lower Upper

43 100

61 9.4 20.5 30.7#

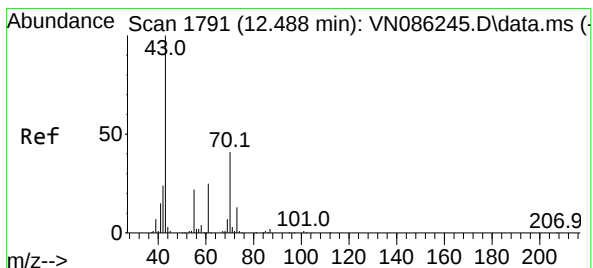
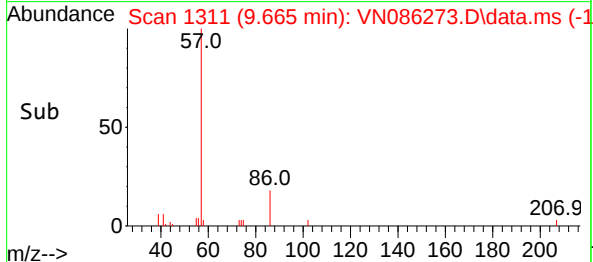
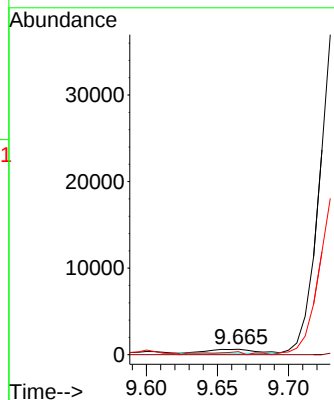
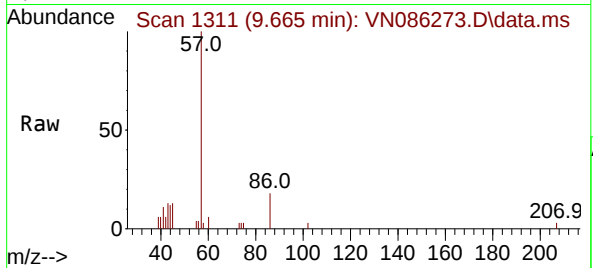




#46
Methyl methacrylate
Concen: 0.332 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

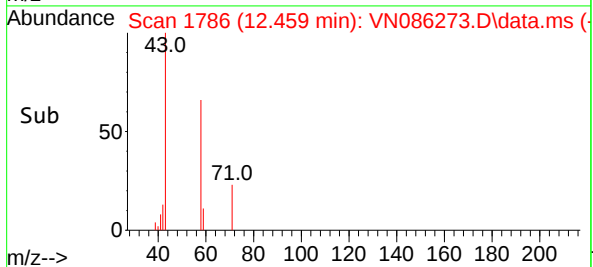
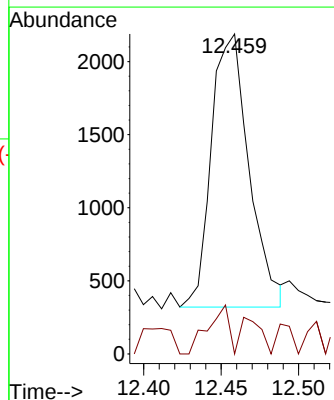
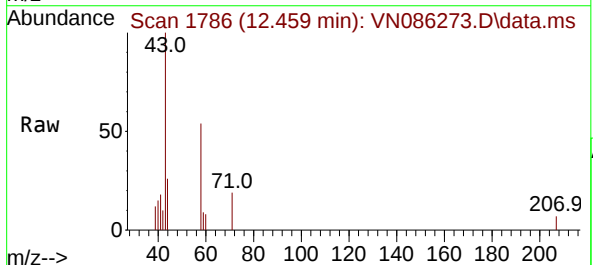
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

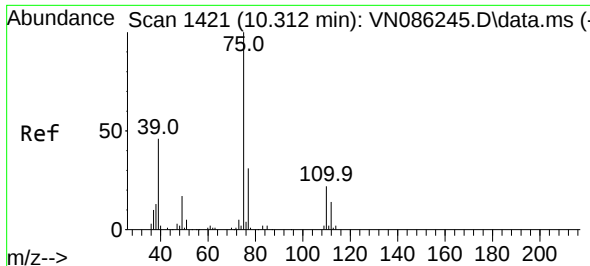
Tgt Ion: 41 Resp: 1090
Ion Ratio Lower Upper
41 100
69 0.0 43.2 129.6#
39 78.2 26.4 79.0



#47
n-amy1 Acetate
Concen: 0.535 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 43 Resp: 3160
Ion Ratio Lower Upper
43 100
55 7.1 19.0 28.4#

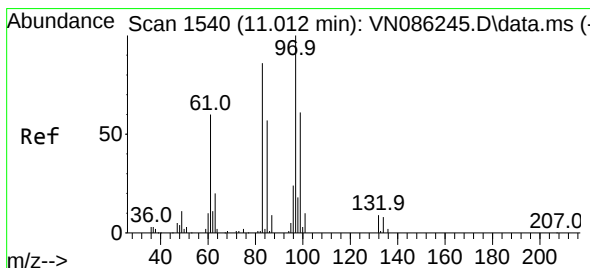
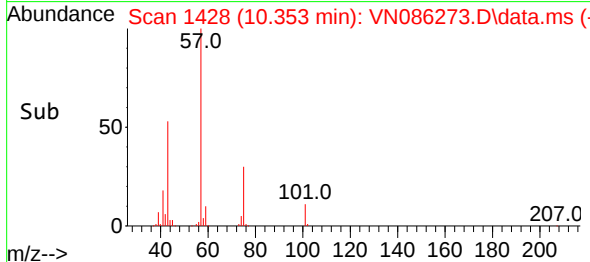
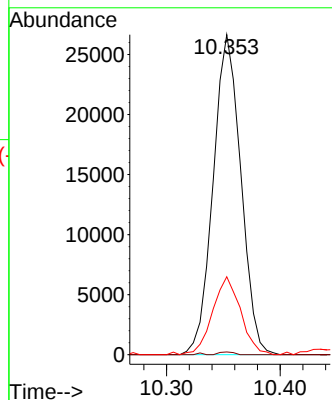
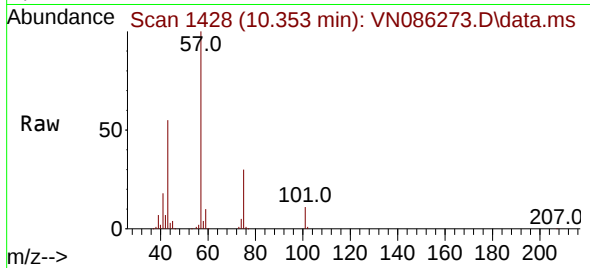




#49
cis-1,3-Dichloropropene
Concen: 9.574 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

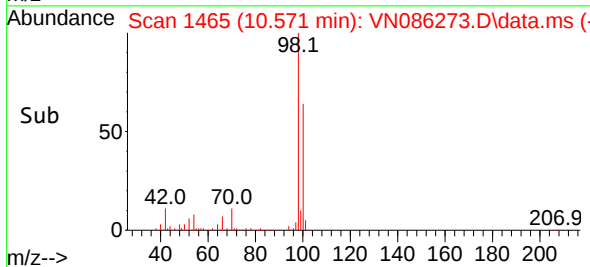
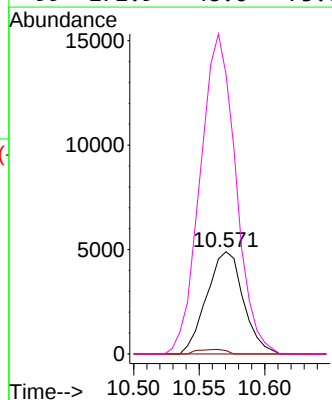
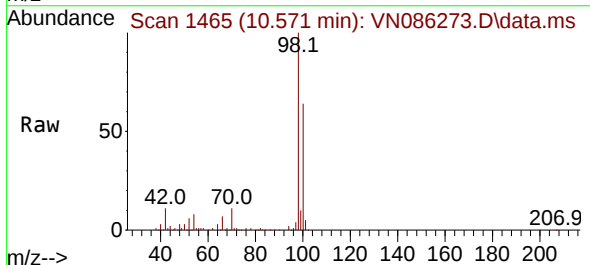
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

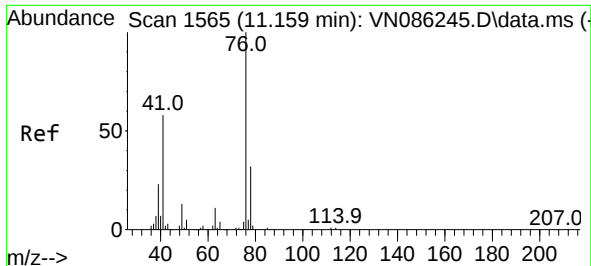
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.0	37.4#
39	24.4	36.7	55.1#



#50
1,1,2-Trichloroethane
Concen: 3.682 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion	Ratio	Lower	Upper
97	100		
83	3.3	68.6	103.0#
85	0.0	45.9	68.9#
99	272.9	48.6	73.0#

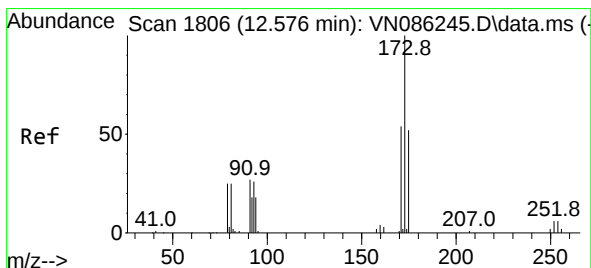
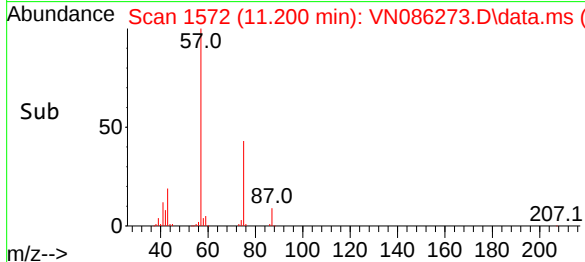
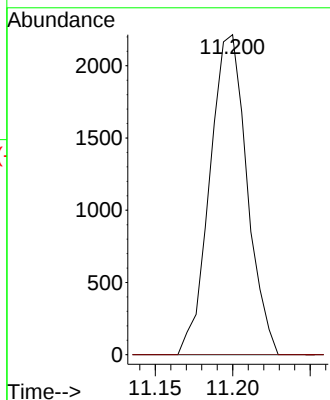
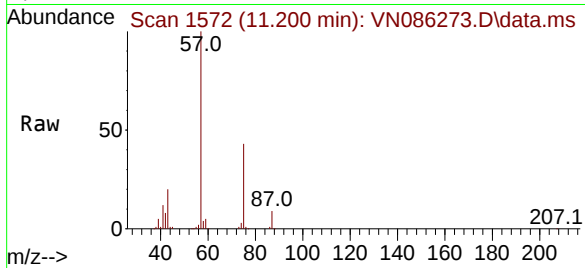




#52
1,3-Dichloropropane
Concen: 0.804 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

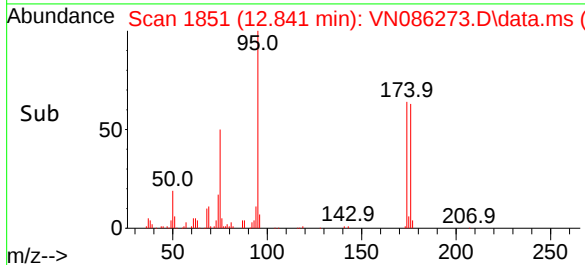
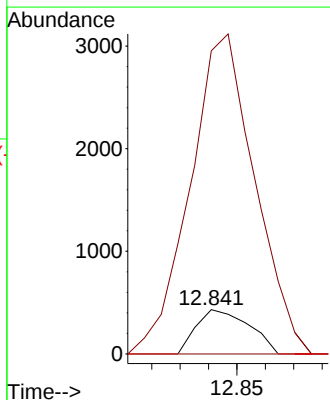
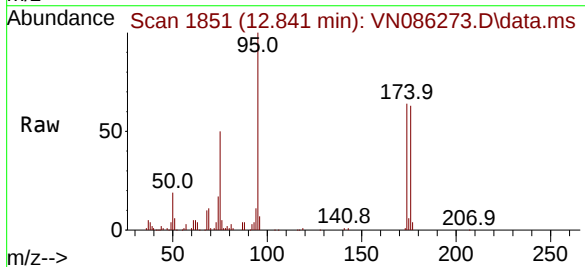
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

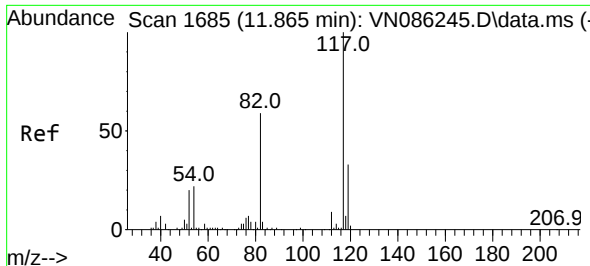
Tgt Ion: 76 Resp: 3691
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6



#56
Bromoform
Concen: 0.303 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion:173 Resp: 559
Ion Ratio Lower Upper
173 100
175 884.4 38.2 57.4#
254 0.0 4.5 6.7#

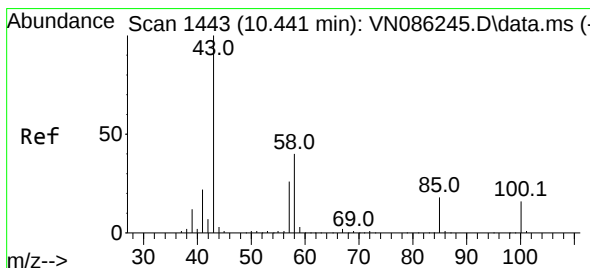
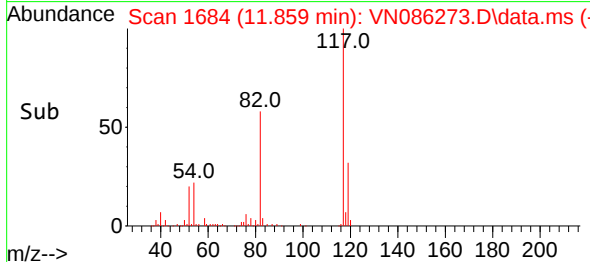
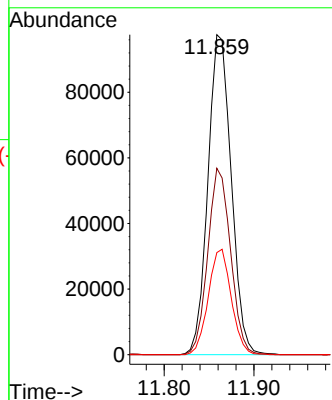
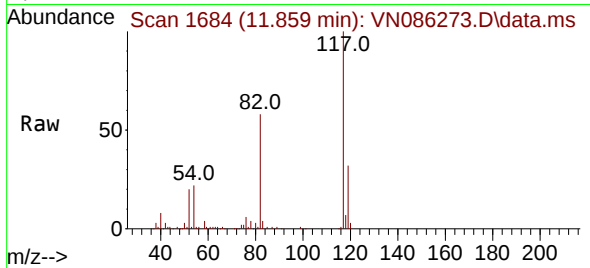




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

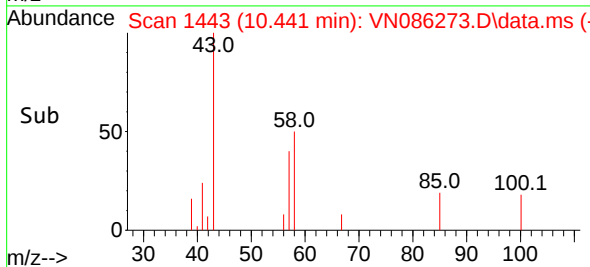
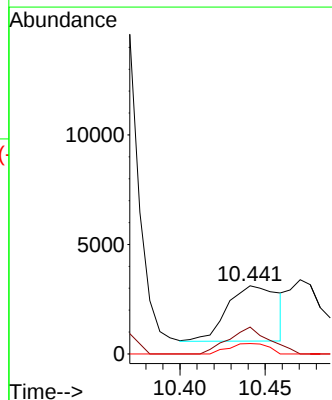
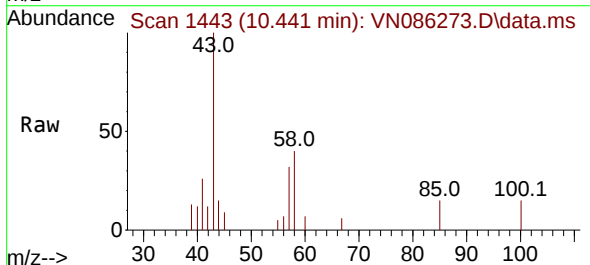
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

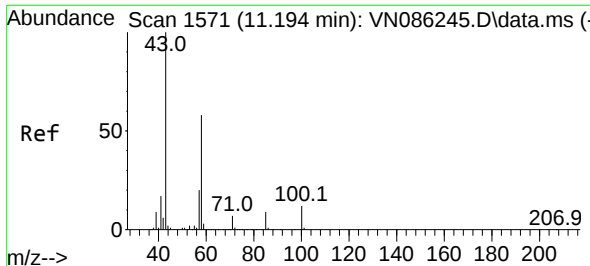
Tgt Ion:117 Resp: 176246
Ion Ratio Lower Upper
117 100
82 57.0 47.3 70.9
119 32.4 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 1.318 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 43 Resp: 5272
Ion Ratio Lower Upper
43 100
58 38.3 32.5 48.7
85 14.4 14.4 21.6

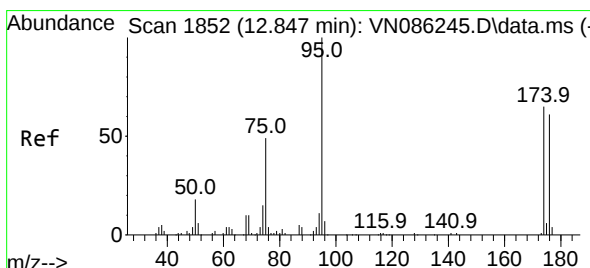
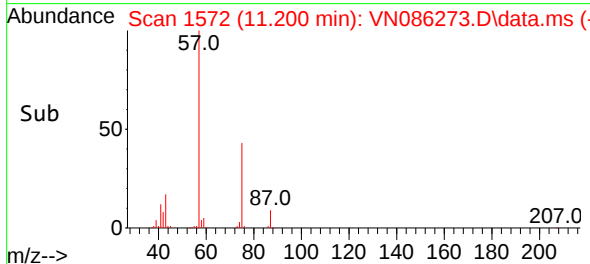
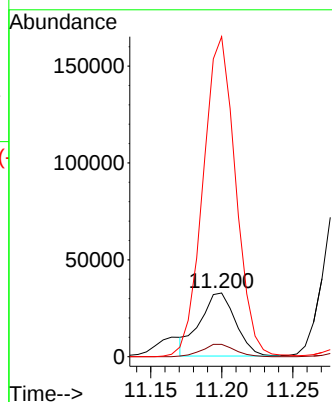
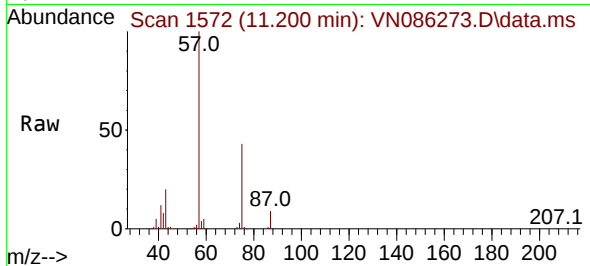




#59
2-Hexanone
Concen: 19.021 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

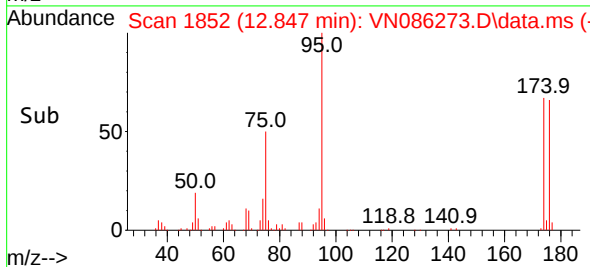
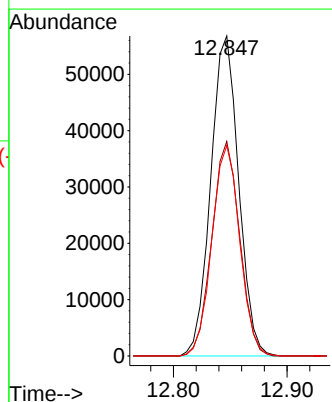
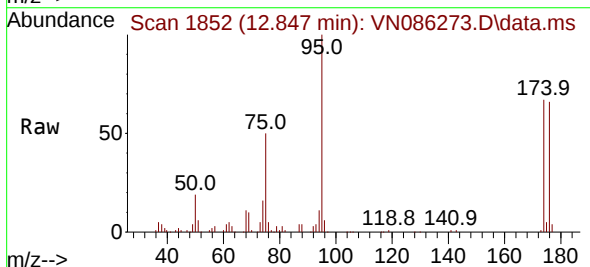
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#05

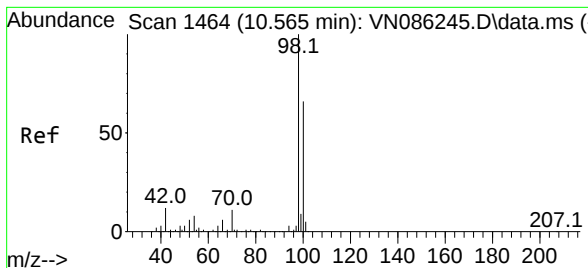
Tgt Ion: 43 Resp: 56647
Ion Ratio Lower Upper
43 100
58 18.2 45.3 67.9#
57 467.3 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 27.691 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086273.D
Acq: 14 Apr 2025 16:50

Tgt Ion: 95 Resp: 97166
Ion Ratio Lower Upper
95 100
174 66.6 52.7 79.1
176 65.5 49.8 74.8





#63

Toluene-d8

Concen: 30.213 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086273.D

Acq: 14 Apr 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

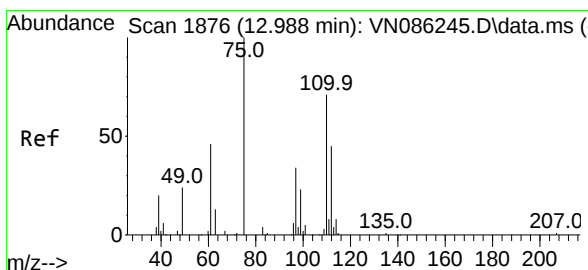
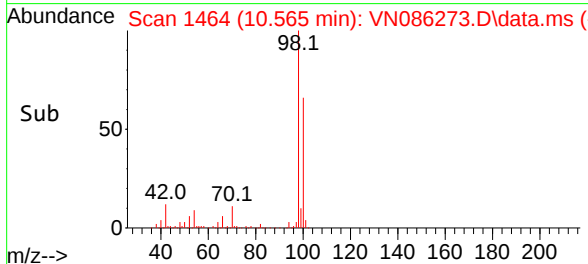
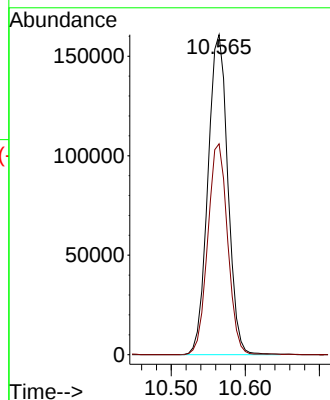
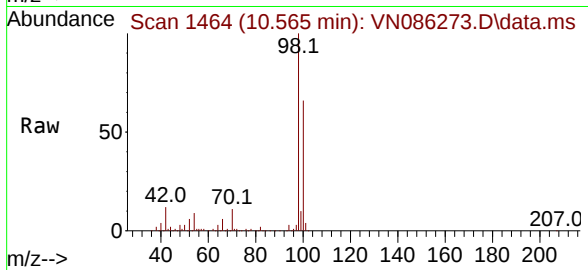
PB167573ZHE#05

Tgt Ion: 98 Resp: 300625

Ion Ratio Lower Upper

98 100

100 65.6 52.3 78.5



#72

1,2,3-Trichloropropane

Concen: 13.887 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086273.D

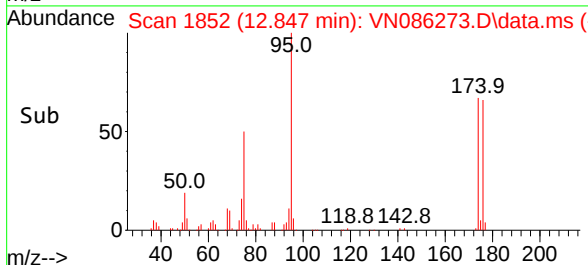
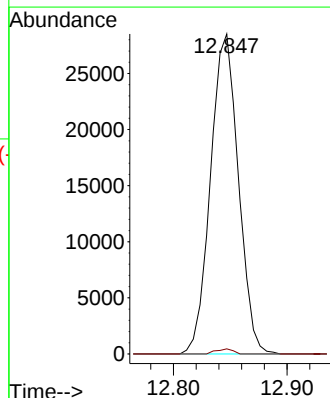
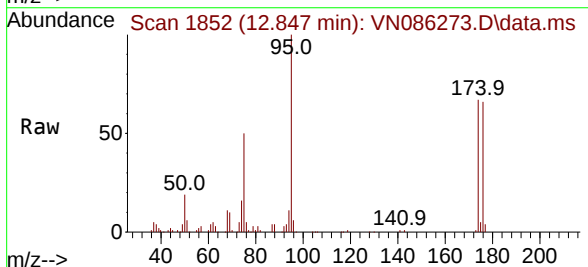
Acq: 14 Apr 2025 16:50

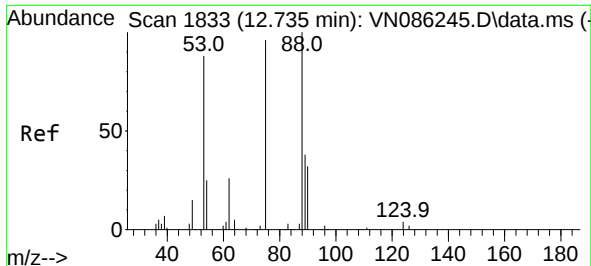
Tgt Ion: 75 Resp: 48645

Ion Ratio Lower Upper

75 100

77 1.0 0.0 380.0





#77

t-1,4-Dichloro-2-butene

Concen: 30.119 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086273.D

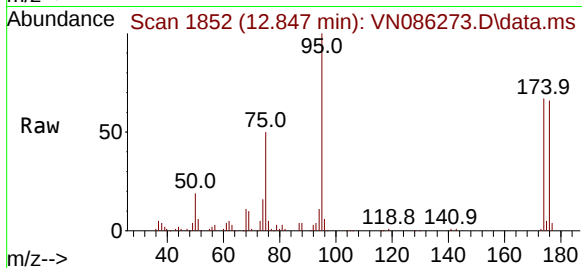
Acq: 14 Apr 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#05



Tgt Ion: 75 Resp: 48645

Ion Ratio Lower Upper

75 100

53 0.0 46.4 139.2#

89 0.0 22.5 67.5#

