

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086264.D
 Acq On : 14 Apr 2025 13:14
 Operator : JC\MD
 Sample : PB167573ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#04

Quant Time: Apr 15 03:08:58 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)

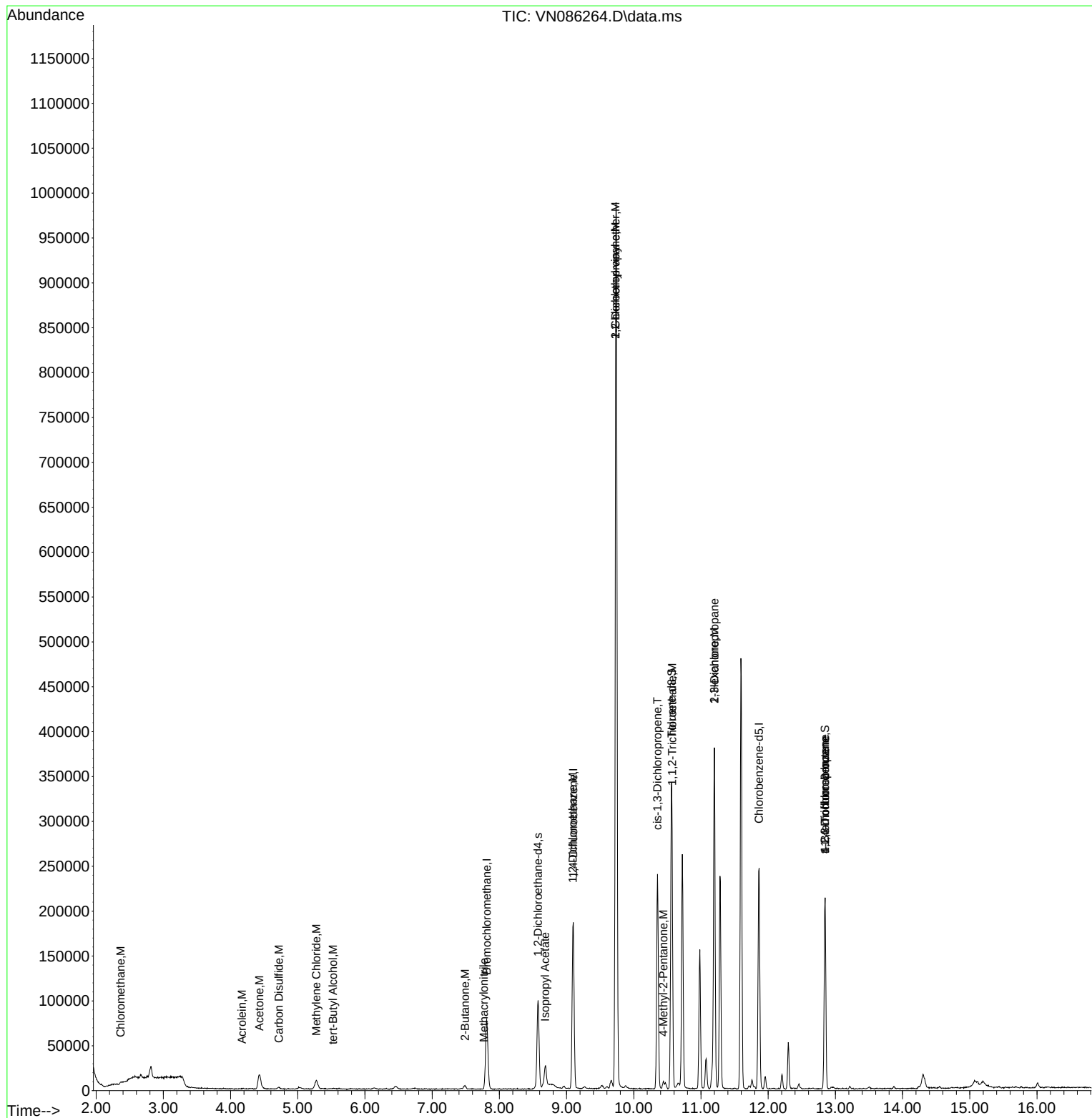
Internal Standards						
1) Bromochloromethane	7.812	128	27571	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	163779	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146282	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	79818	29.681	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.933%
60) 4-Bromofluorobenzene	12.847	95	81905	28.123	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.733%
63) Toluene-d8	10.565	98	244222	29.572	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.567%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	866	0.284	ug/l	90
13) Acrolein	4.171	56	207	0.614	ug/l #	45
15) Acetone	4.430	58	10559	33.273	ug/l	85
16) Carbon Disulfide	4.718	76	1333	0.221	ug/l #	74
18) Methylene Chloride	5.277	84	7479	3.125	ug/l	93
23) tert-Butyl Alcohol	5.524	59	197	0.380	ug/l #	100
30) 2-Butanone	7.488	43	6799	4.182	ug/l	95
35) Methacrylonitrile	7.771	41	382	0.208	ug/l #	35
36) 1,2-Dichloroethane	9.094	62	5704	1.953	ug/l #	72
39) 1,2-Dichloropropane	9.729	63	1480	0.637	ug/l #	42
44) Isopropyl Acetate	8.682	43	35833	5.890	ug/l #	79
49) cis-1,3-Dichloropropene	10.353	75	45549	11.813	ug/l #	58
50) 1,1,2-Trichloroethane	10.571	97	7552	3.589	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	3985	1.063	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.729	63	1480	1.002	ug/l #	45
58) 4-Methyl-2-Pentanone	10.441	43	5996	1.806	ug/l	95
59) 2-Hexanone	11.200	43	70537	28.536	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	40728	14.009	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	40728	30.382	ug/l #	12

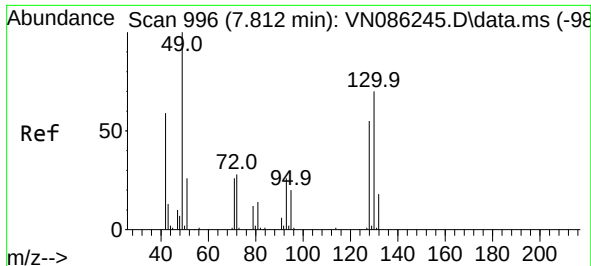
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
PB167573ZHE#04

Quant Time: Apr 15 03:08:58 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

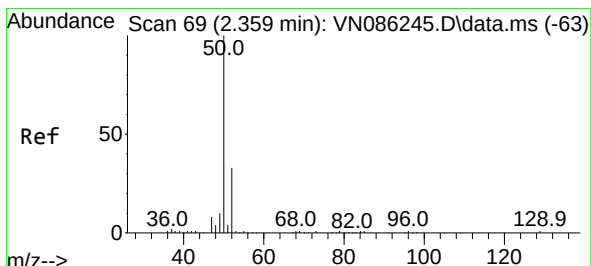
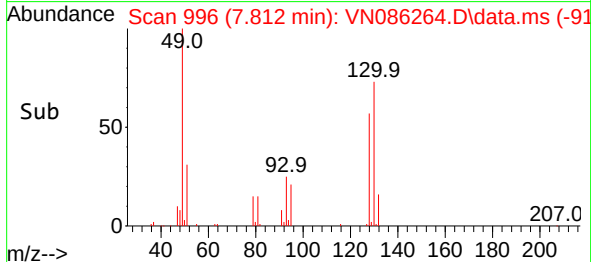
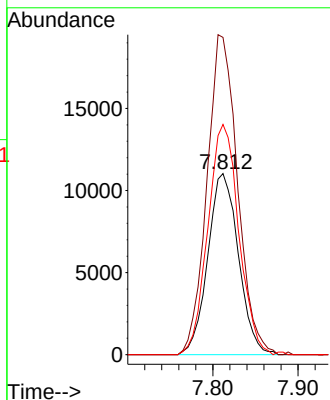
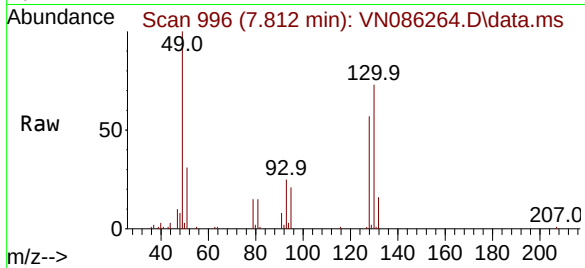




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

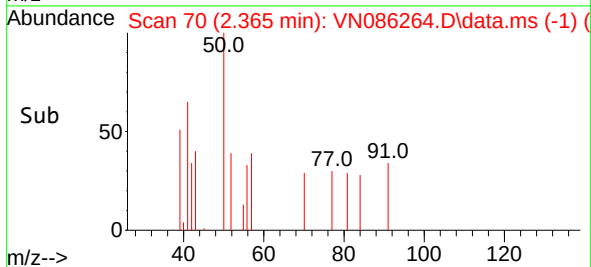
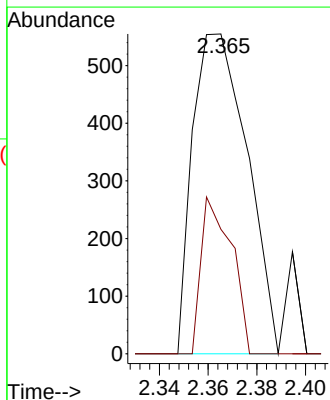
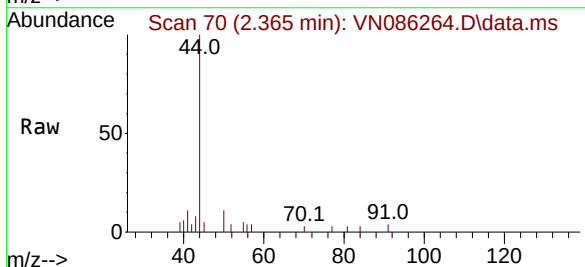
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

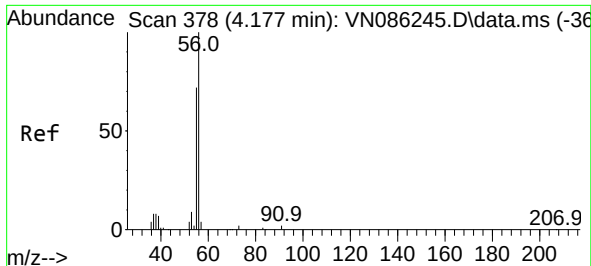
Tgt Ion:128 Resp: 27571
Ion Ratio Lower Upper
128 100
49 176.0 0.0 452.5
130 128.4 0.0 315.0



#3
Chloromethane
Concen: 0.284 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 50 Resp: 866
Ion Ratio Lower Upper
50 100
52 38.9 26.4 39.6





#13

Acrolein

Concen: 0.614 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN086264.D

Acq: 14 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

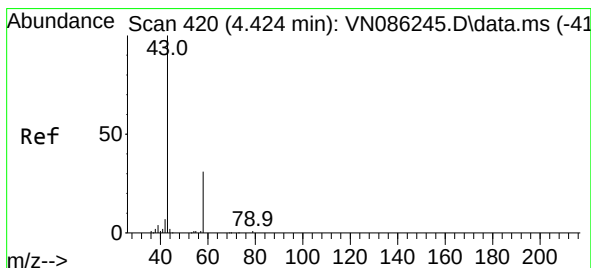
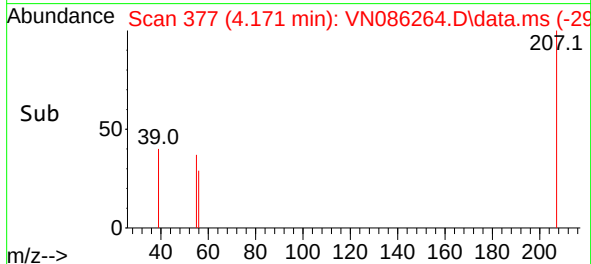
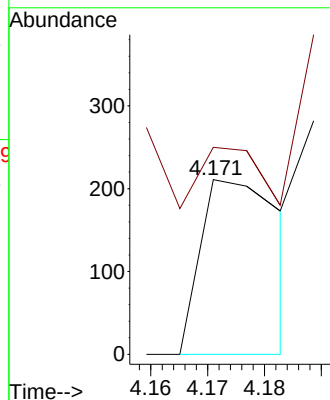
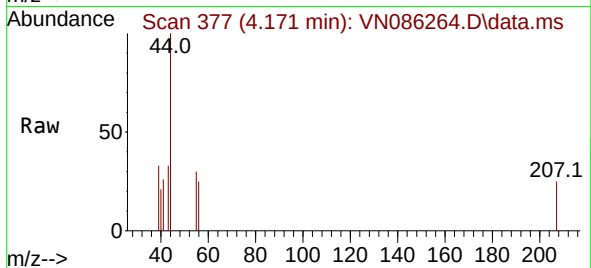
PB167573ZHE#04

Tgt Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 25.1 56.5 84.7#



#15

Acetone

Concen: 33.273 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN086264.D

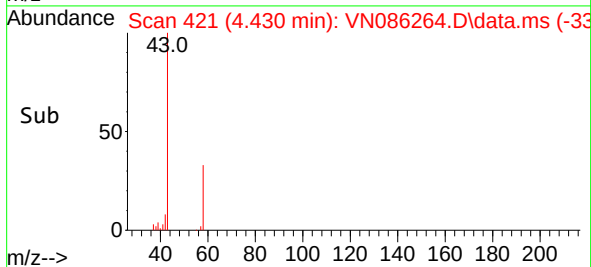
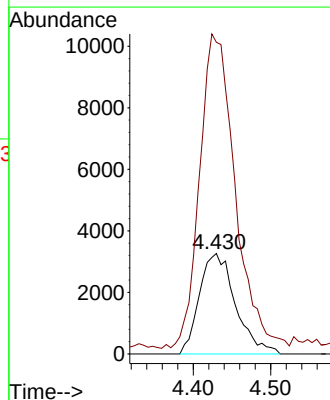
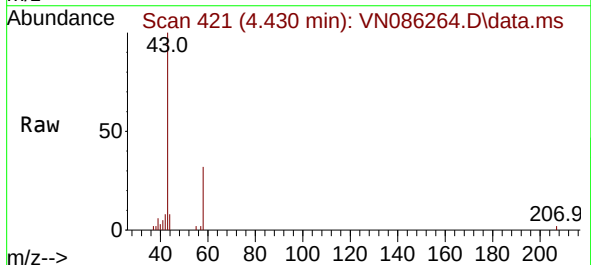
Acq: 14 Apr 2025 13:14

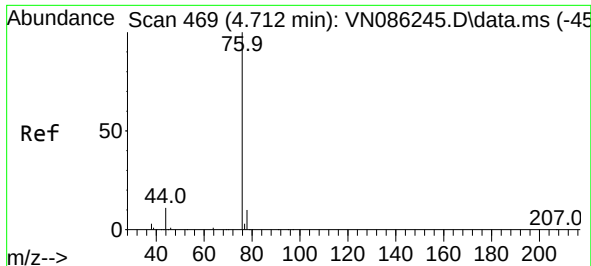
Tgt Ion: 58 Resp: 10559

Ion Ratio Lower Upper

58 100

43 295.2 261.8 392.8

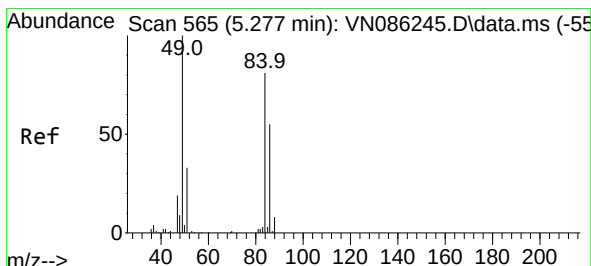
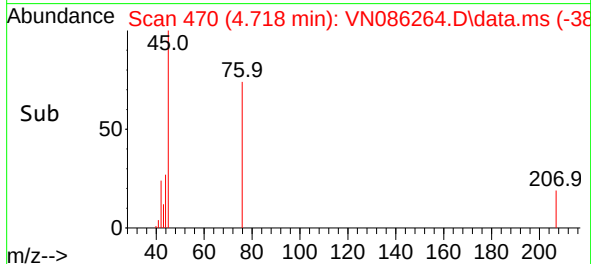
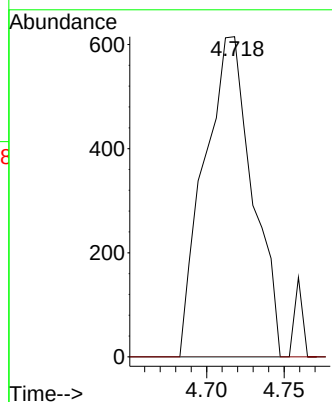
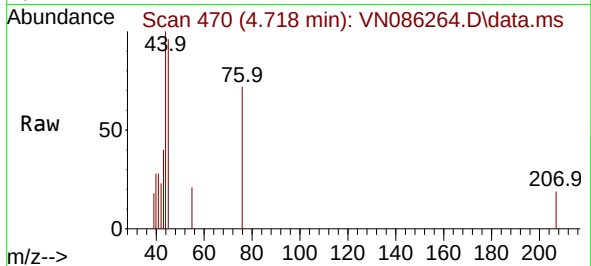




#16
Carbon Disulfide
Concen: 0.221 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

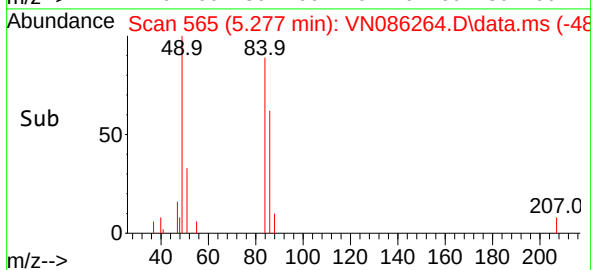
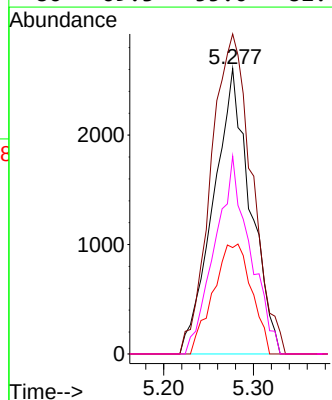
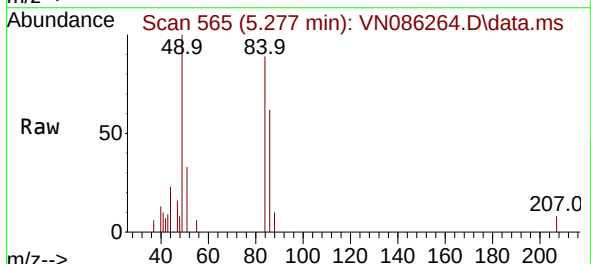
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

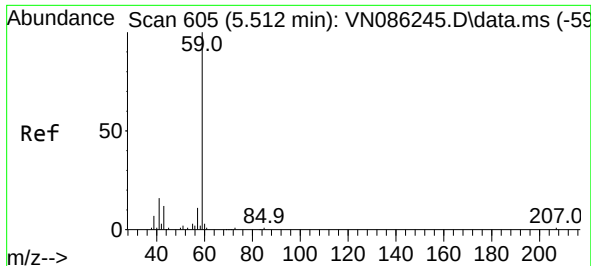
Tgt Ion: 76 Resp: 1333
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methylene Chloride
Concen: 3.125 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 84 Resp: 7479
Ion Ratio Lower Upper
84 100
49 112.1 99.1 148.7
51 37.3 32.3 48.5
86 69.3 55.0 82.4





#23

tert-Butyl Alcohol

Concen: 0.380 ug/l

RT: 5.524 min Scan# 605

Delta R.T. 0.012 min

Lab File: VN086264.D

Acq: 14 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

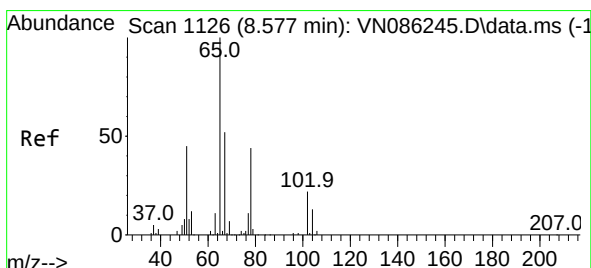
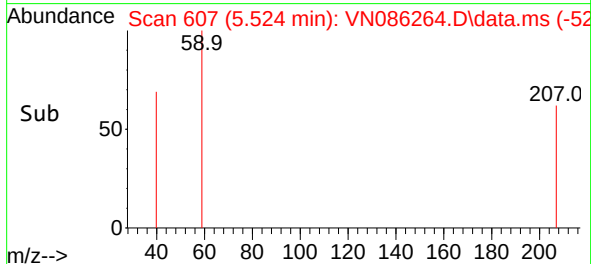
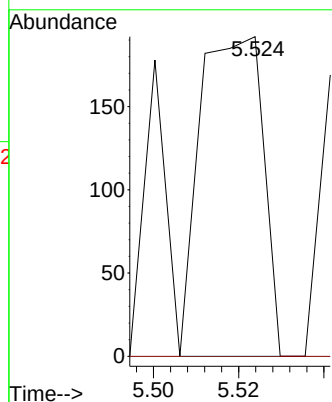
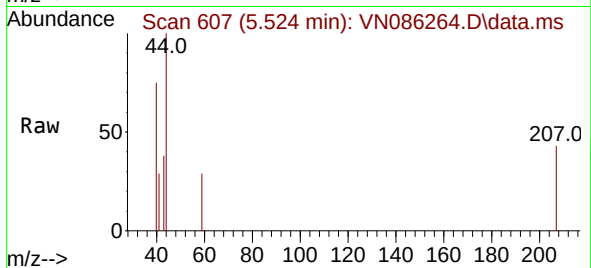
PB167573ZHE#04

Tgt Ion: 59 Resp: 197

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 29.681 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086264.D

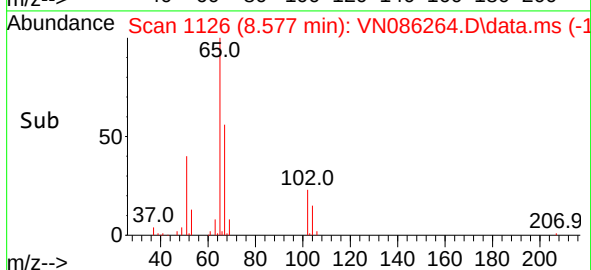
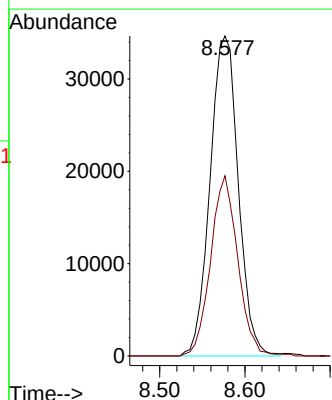
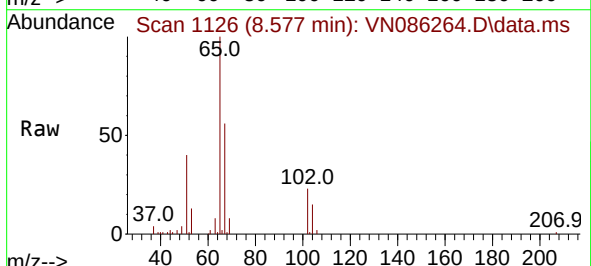
Acq: 14 Apr 2025 13:14

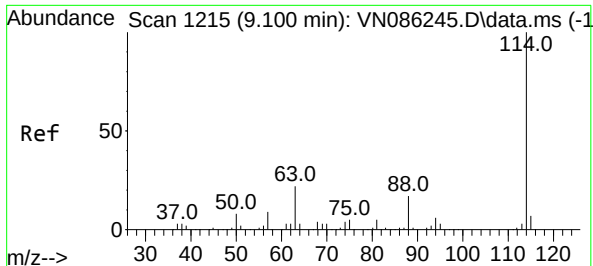
Tgt Ion: 65 Resp: 79818

Ion Ratio Lower Upper

65 100

67 54.1 43.4 65.2

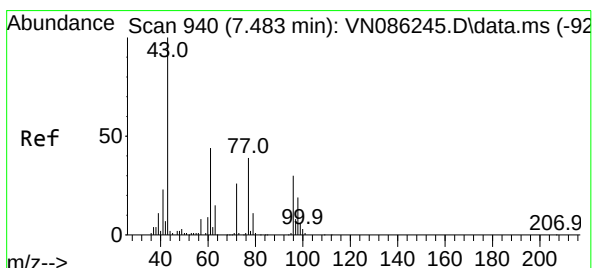
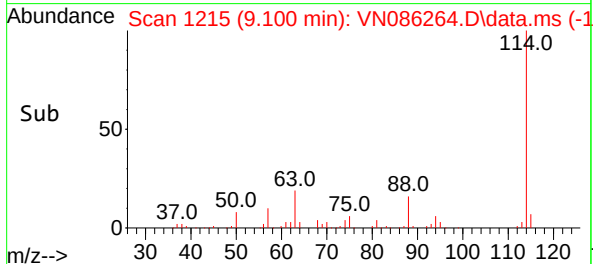
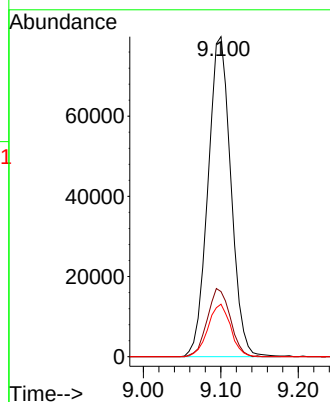
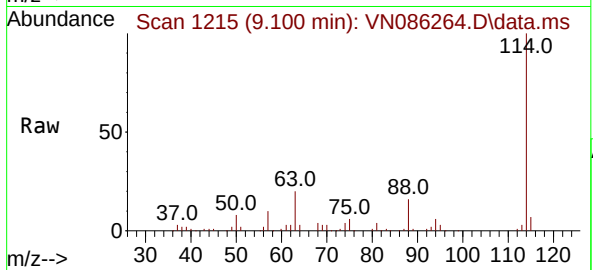




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

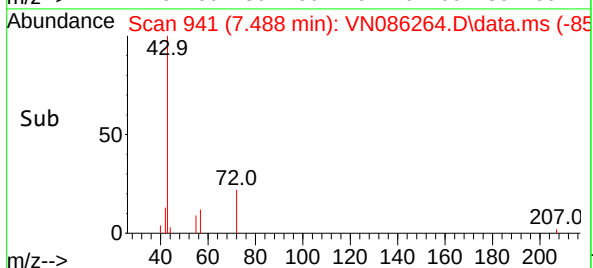
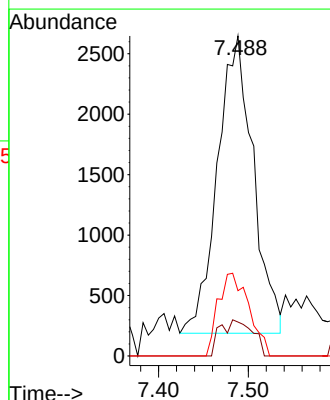
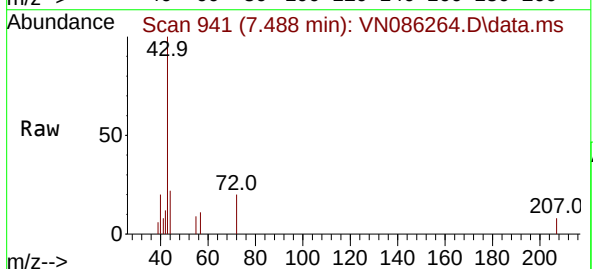
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

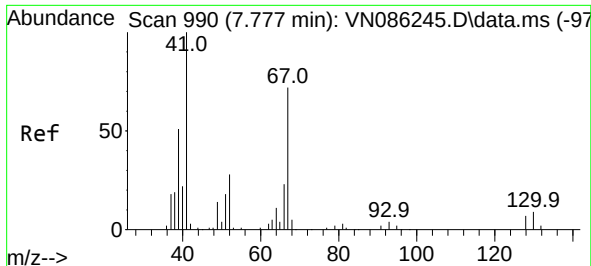
Tgt Ion:114 Resp: 163779
Ion Ratio Lower Upper
114 100
63 21.3 17.8 26.6
88 16.2 13.4 20.2



#30
2-Butanone
Concen: 4.182 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 43 Resp: 6799
Ion Ratio Lower Upper
43 100
57 7.5 6.4 9.6
72 23.9 21.5 32.3

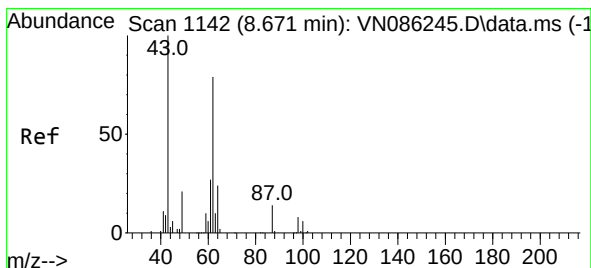
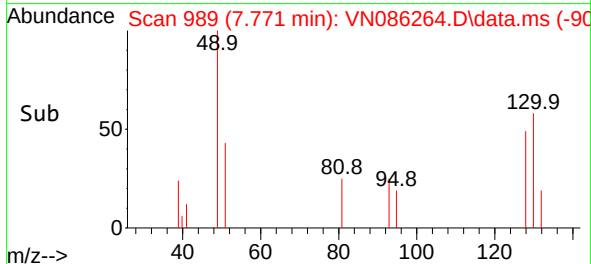
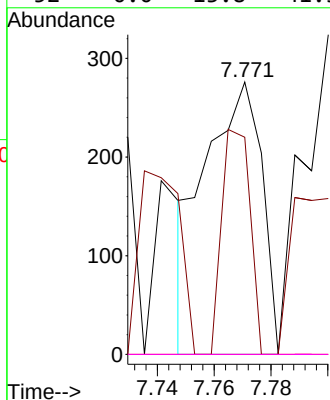
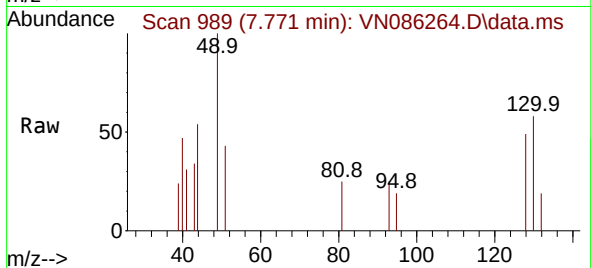




#35
Methacrylonitrile
Concen: 0.208 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

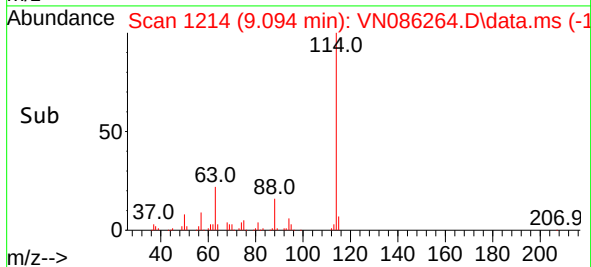
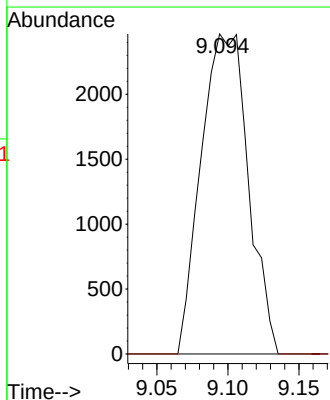
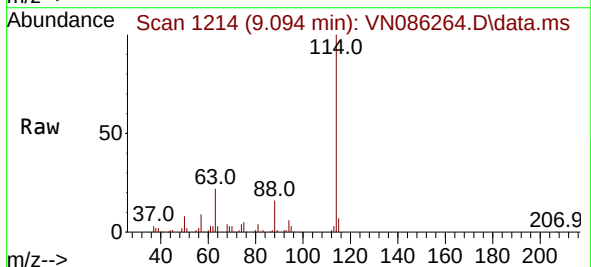
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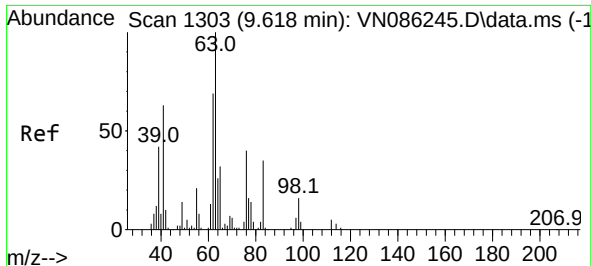
Tgt Ion: 41	Resp: 382
Ion Ratio	Lower Upper
41 100	
39 79.7	25.8 77.3#
67 0.0	36.0 108.0#
52 0.0	13.8 41.3#



#36
1,2-Dichloroethane
Concen: 1.953 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.423 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 62	Resp: 5704
Ion Ratio	Lower Upper
62 100	
98 0.0	8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.637 ug/l

RT: 9.729 min Scan# 1132

Delta R.T. 0.112 min

Lab File: VN086264.D

Acq: 14 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

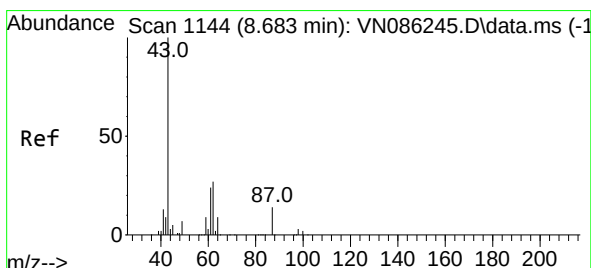
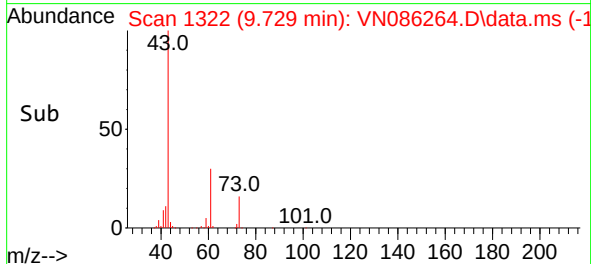
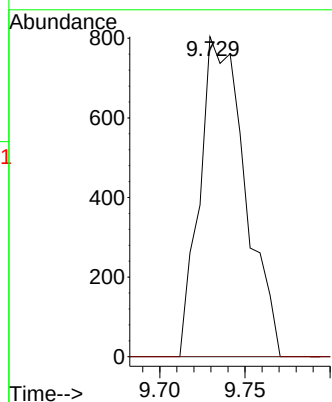
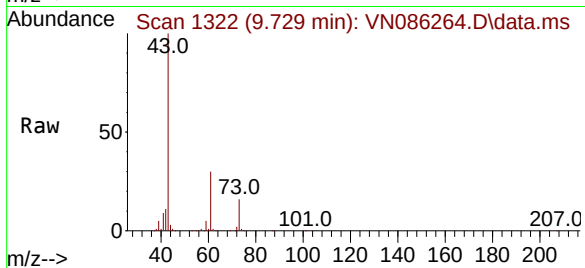
PB167573ZHE#04

Tgt Ion: 63 Resp: 1480

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 5.890 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086264.D

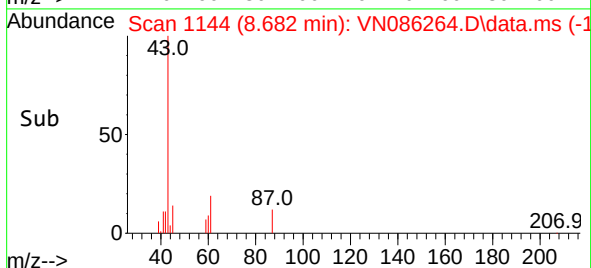
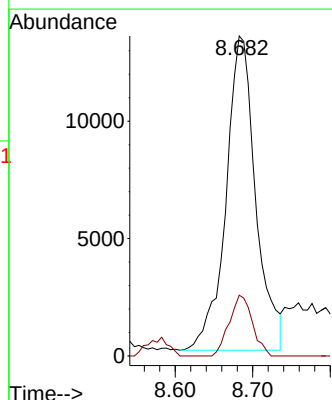
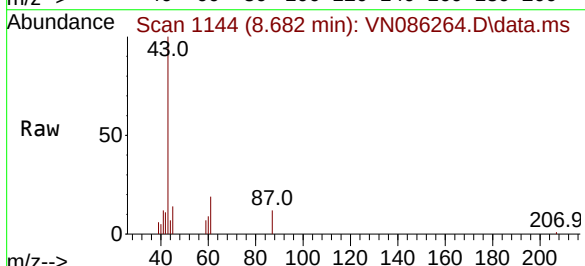
Acq: 14 Apr 2025 13:14

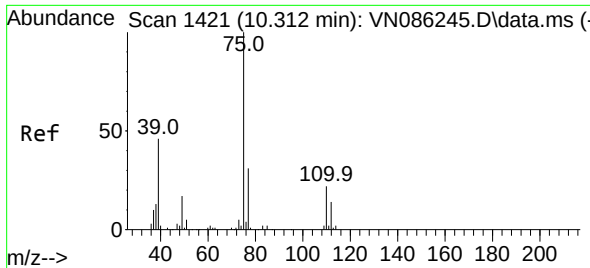
Tgt Ion: 43 Resp: 35833

Ion Ratio Lower Upper

43 100

61 15.0 20.5 30.7#

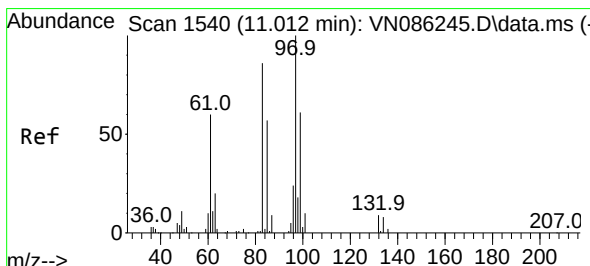
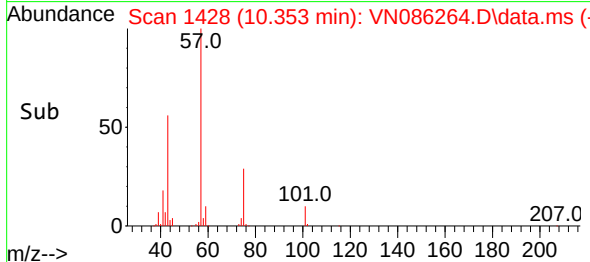
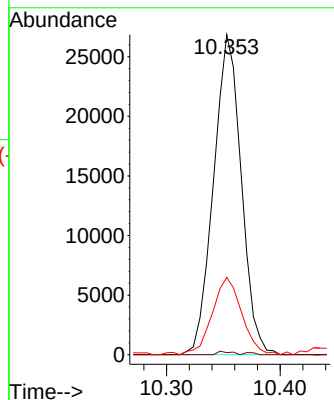
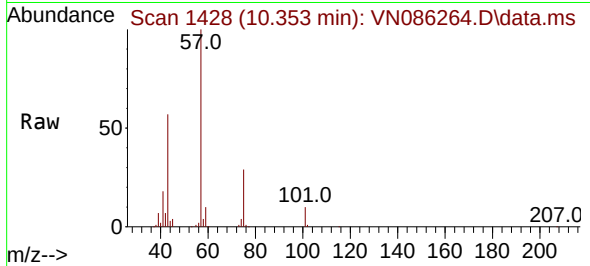




#49
 cis-1,3-Dichloropropene
 Concen: 11.813 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086264.D
 Acq: 14 Apr 2025 13:14

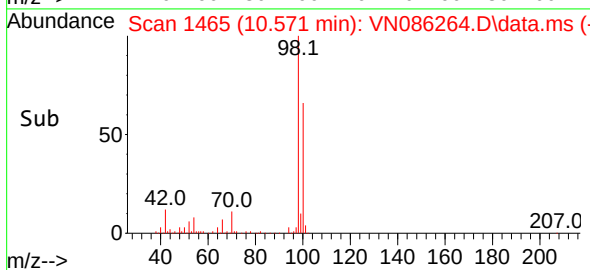
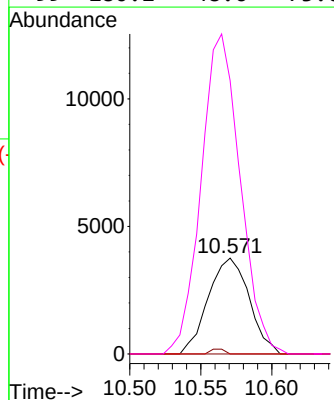
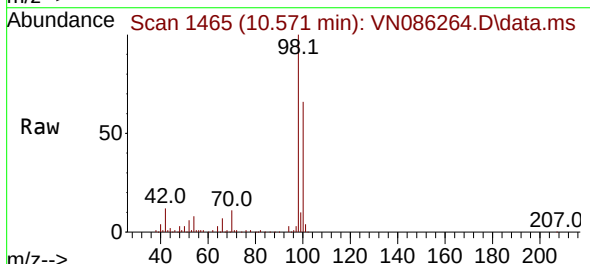
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#04

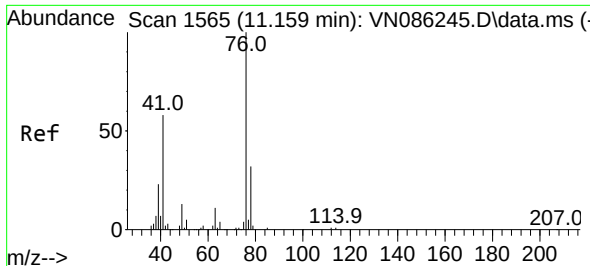
Tgt Ion: 75 Resp: 45549
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.0 37.4#
 39 24.2 36.7 55.1#



#50
 1,1,2-Trichloroethane
 Concen: 3.589 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086264.D
 Acq: 14 Apr 2025 13:14

Tgt Ion: 97 Resp: 7552
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.6 103.0#
 85 0.0 45.9 68.9#
 99 280.2 48.6 73.0#

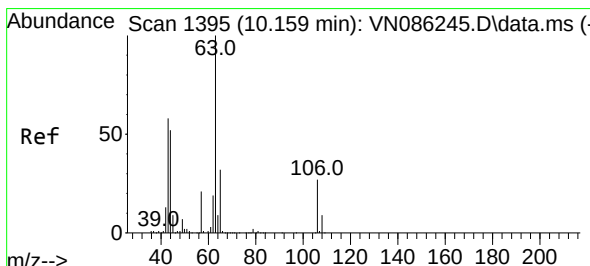
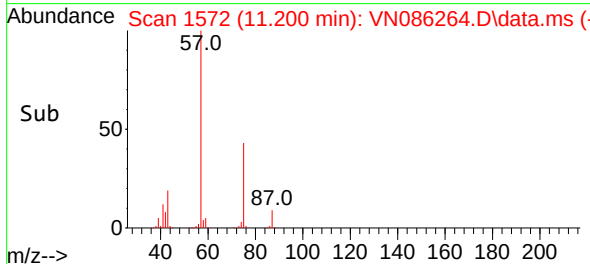
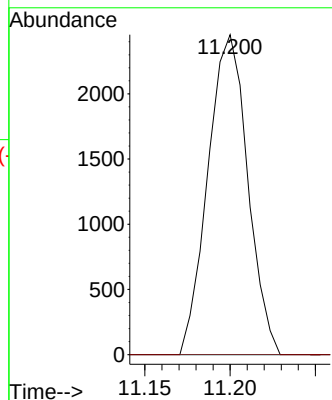
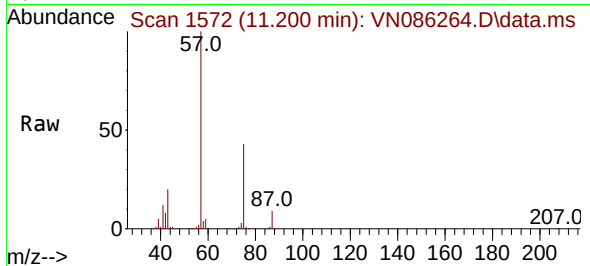




#52
1,3-Dichloropropane
Concen: 1.063 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.041 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

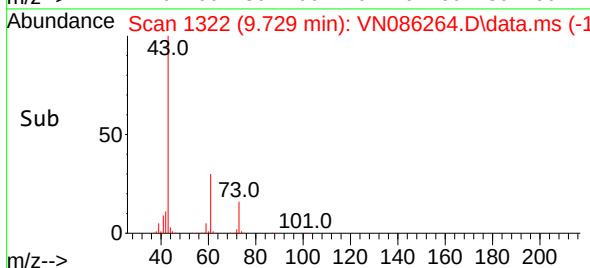
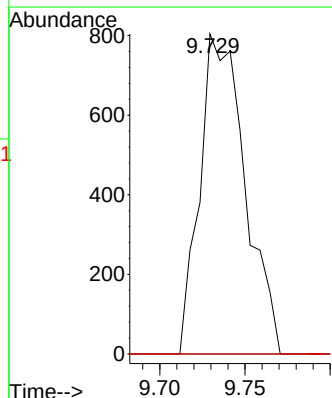
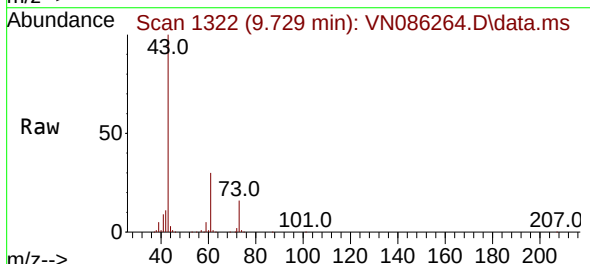
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

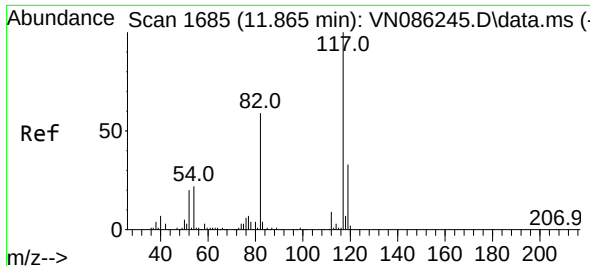
Tgt Ion: 76 Resp: 3985
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6



#55
2-Chloroethyl vinyl ether
Concen: 1.002 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. -0.429 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 63 Resp: 1480
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.8#
106 0.0 21.8 32.8#

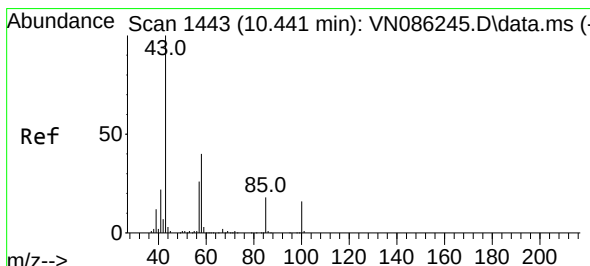
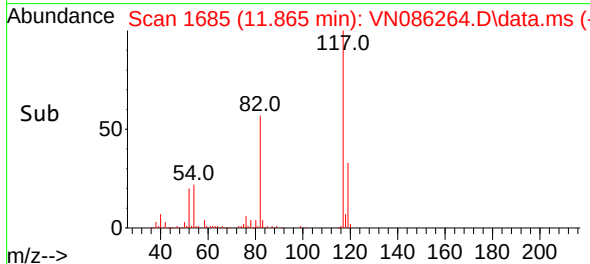
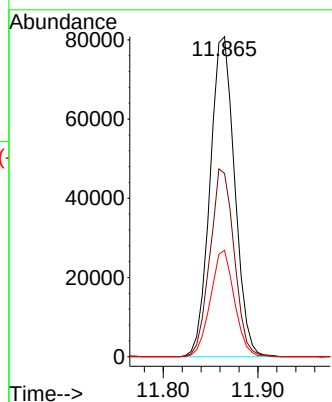
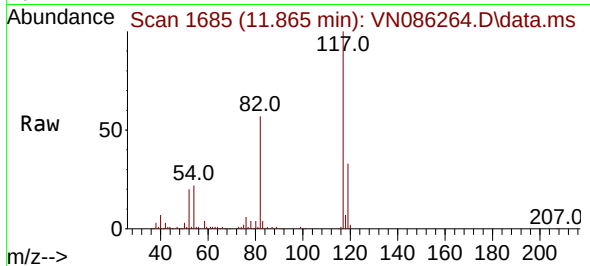




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

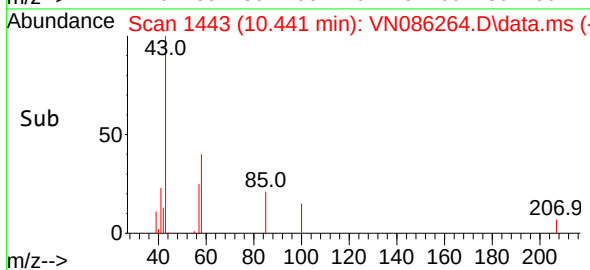
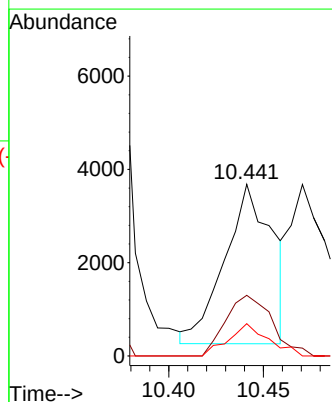
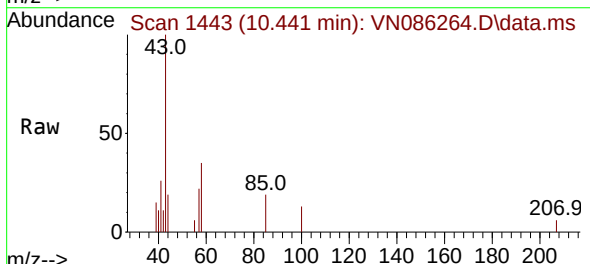
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

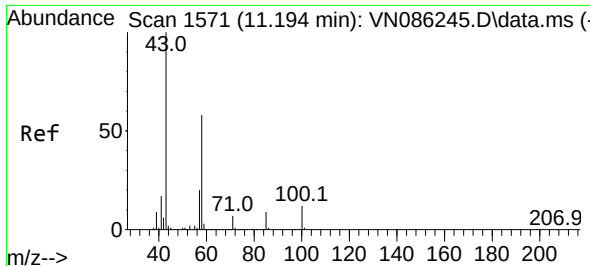
Tgt Ion:117 Resp: 146282
Ion Ratio Lower Upper
117 100
82 57.7 47.3 70.9
119 32.2 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 1.806 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 43 Resp: 5996
Ion Ratio Lower Upper
43 100
58 36.9 32.5 48.7
85 16.7 14.4 21.6

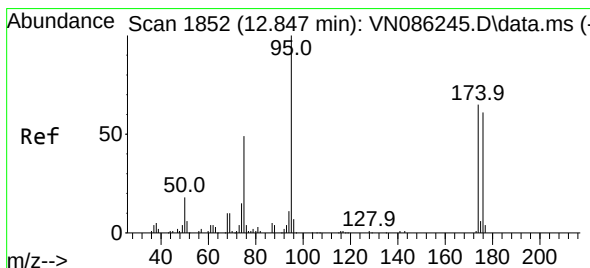
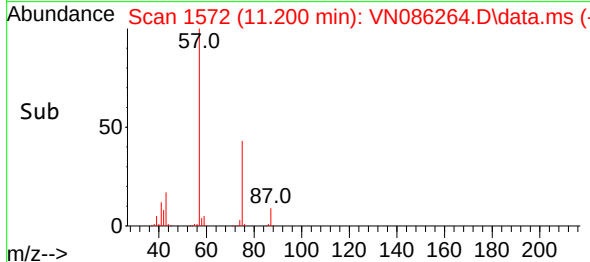
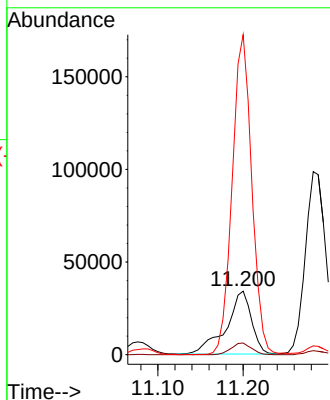
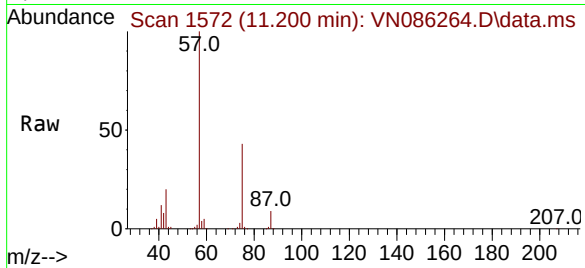




#59
2-Hexanone
Concen: 28.536 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

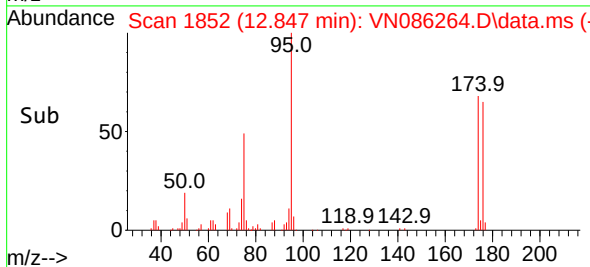
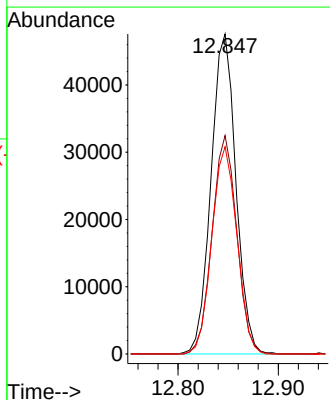
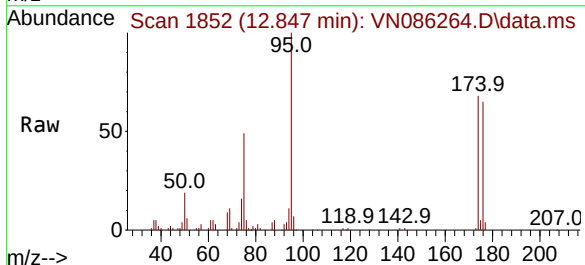
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

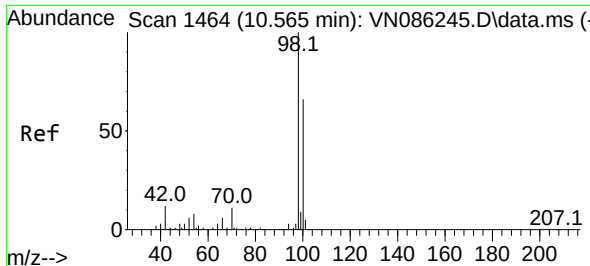
Tgt Ion: 43 Resp: 70537
Ion Ratio Lower Upper
43 100
58 14.8 45.3 67.9#
57 391.2 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 28.123 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

Tgt Ion: 95 Resp: 81905
Ion Ratio Lower Upper
95 100
174 67.7 52.7 79.1
176 65.4 49.8 74.8

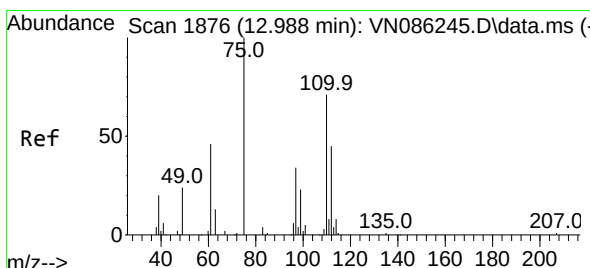
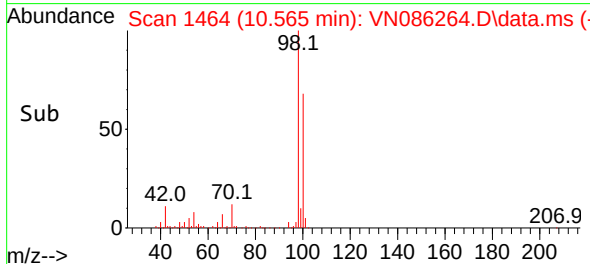
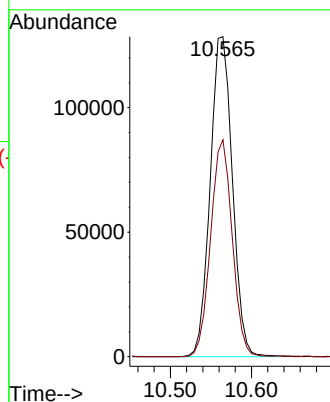
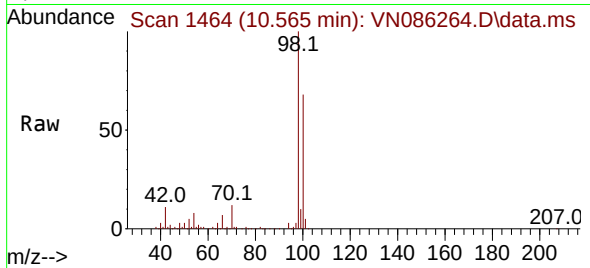




#63
Toluene-d8
Concen: 29.572 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

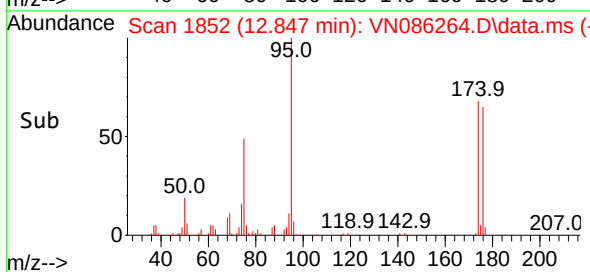
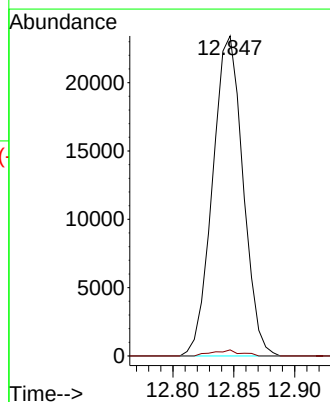
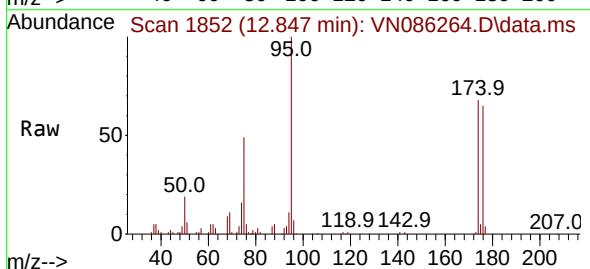
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#04

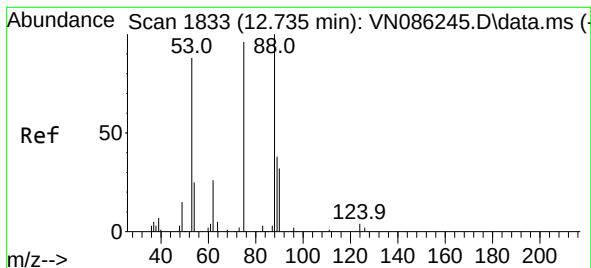
Tgt Ion: 98 Resp: 244222
Ion Ratio Lower Upper
98 100
100 65.8 52.3 78.5



#72
1,2,3-Trichloropropane
Concen: 14.009 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086264.D
Acq: 14 Apr 2025 13:14

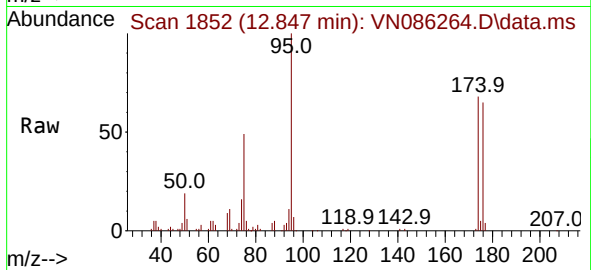
Tgt Ion: 75 Resp: 40728
Ion Ratio Lower Upper
75 100
77 1.4 0.0 380.0





#77
 t-1,4-Dichloro-2-butene
 Concen: 30.382 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086264.D
 Acq: 14 Apr 2025 13:14

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#04



Tgt Ion: 75 Resp: 40728
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.4 139.2#
 89 0.0 22.5 67.5#

