

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086268.D
 Acq On : 14 Apr 2025 14:50
 Operator : JC\MD
 Sample : PB167573ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#08

Quant Time: Apr 15 03:11:15 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)

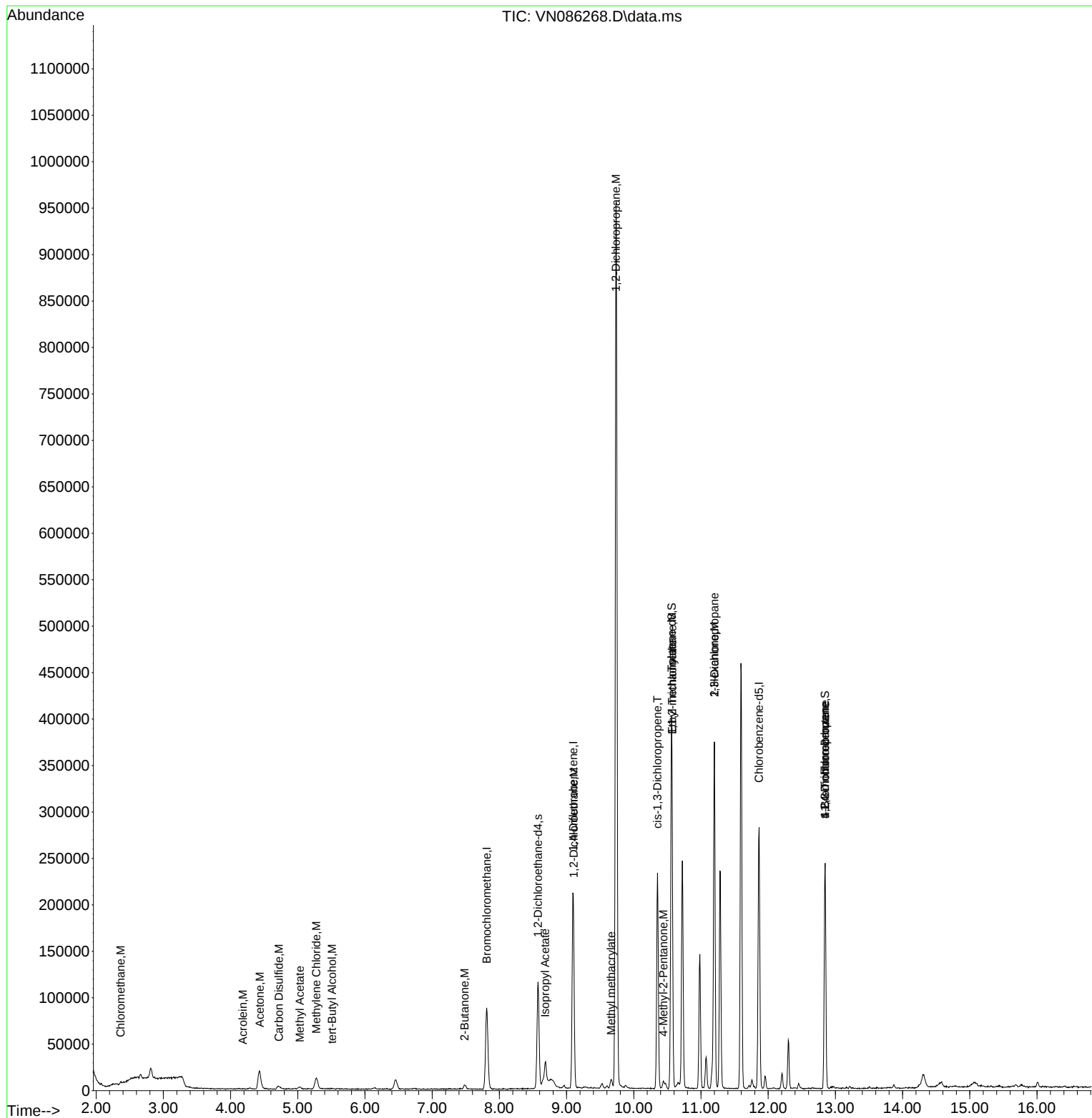
Internal Standards						
1) Bromochloromethane	7.812	128	31187	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	186915	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164558	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	92954	30.558	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.867%			
60) 4-Bromofluorobenzene	12.847	95	91553	27.944	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.133%			
63) Toluene-d8	10.565	98	281222	30.271	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1137	0.329	ug/l #	87
12) Methyl Acetate	5.030	43	3384	1.009	ug/l	93
13) Acrolein	4.183	56	223	0.585	ug/l #	1
15) Acetone	4.436	58	12341	34.379	ug/l	71
16) Carbon Disulfide	4.718	76	7517	1.104	ug/l #	92
18) Methylene Chloride	5.277	84	9555	3.529	ug/l	91
23) tert-Butyl Alcohol	5.512	59	319	0.544	ug/l #	100
30) 2-Butanone	7.482	43	7322	3.946	ug/l #	83
36) 1,2-Dichloroethane	9.106	62	6197	1.859	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1300	0.490	ug/l #	42
44) Isopropyl Acetate	8.682	43	44168	6.362	ug/l #	72
46) Methyl methacrylate	9.665	41	1005	0.329	ug/l #	20
49) cis-1,3-Dichloropropene	10.353	75	43653	9.920	ug/l #	58
50) 1,1,2-Trichloroethane	10.571	97	8218	3.423	ug/l #	1
51) Ethyl methacrylate	10.571	69	1200	0.269	ug/l	91
52) 1,3-Dichloropropane	11.200	76	3865	0.903	ug/l #	42
58) 4-Methyl-2-Pentanone	10.441	43	5924	1.586	ug/l	96
59) 2-Hexanone	11.200	43	67920	24.426	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	45602	13.943	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	45602	30.240	ug/l #	12

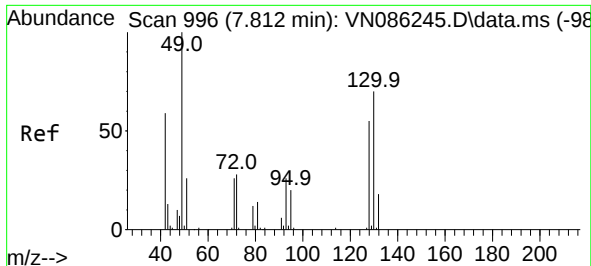
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:11:15 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
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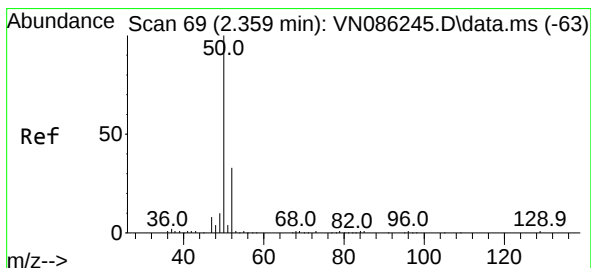
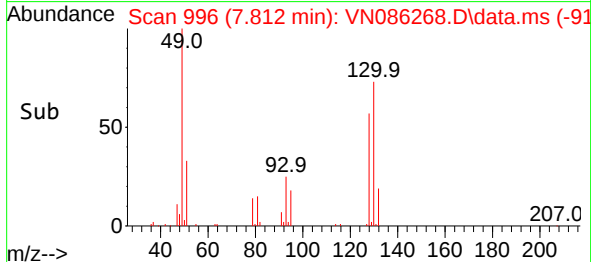
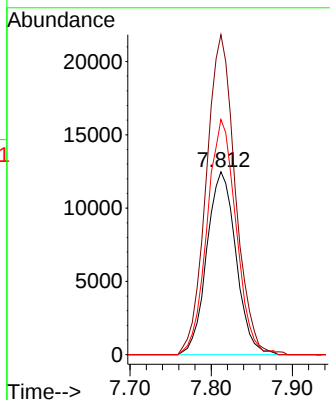
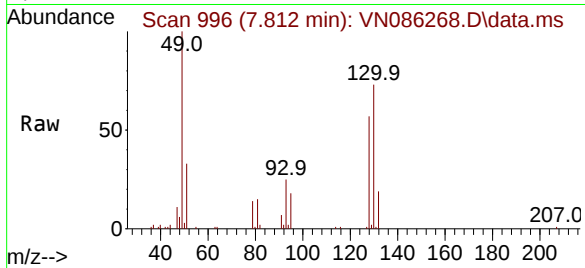




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

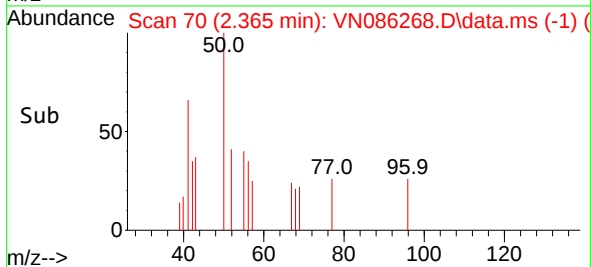
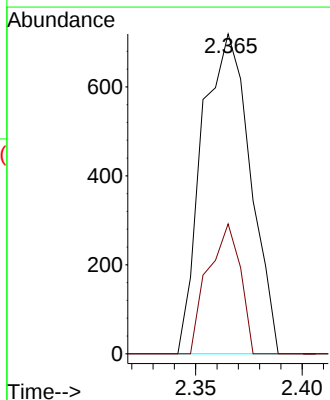
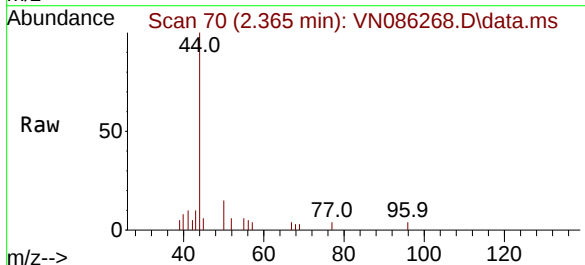
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

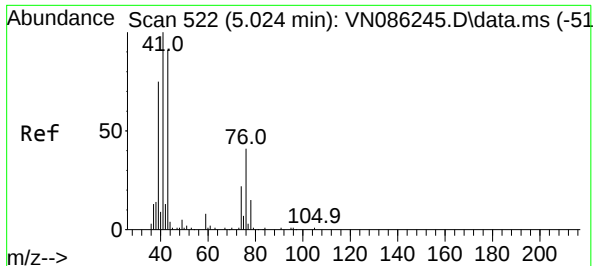
Tgt Ion:128 Resp: 31187
Ion Ratio Lower Upper
128 100
49 173.8 0.0 452.5
130 127.0 0.0 315.0



#3
Chloromethane
Concen: 0.329 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 50 Resp: 1137
Ion Ratio Lower Upper
50 100
52 40.6 26.4 39.6#





#12

Methyl Acetate

Concen: 1.009 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA_N

ClientSampleId :

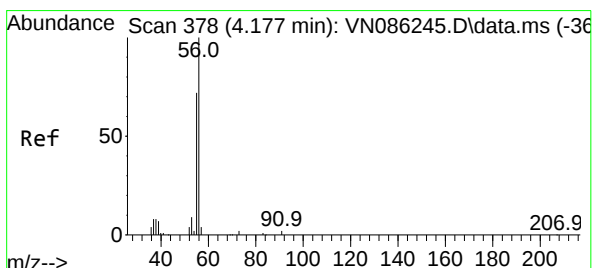
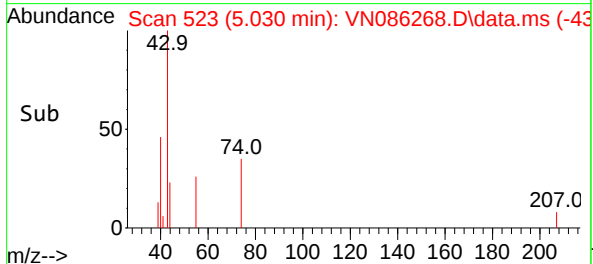
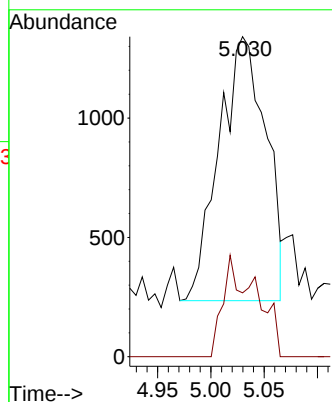
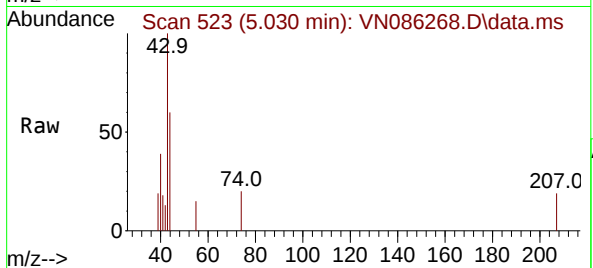
PB167573ZHE#08

Tgt Ion: 43 Resp: 3384

Ion Ratio Lower Upper

43 100

74 27.3 19.1 28.7



#13

Acrolein

Concen: 0.585 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN086268.D

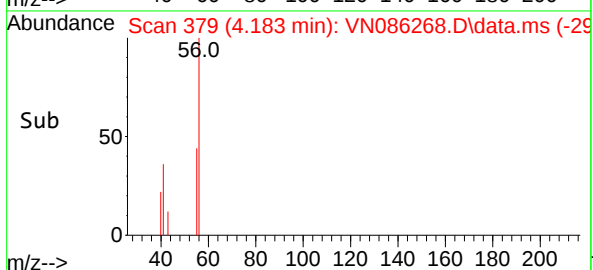
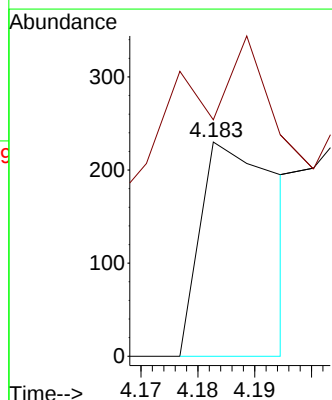
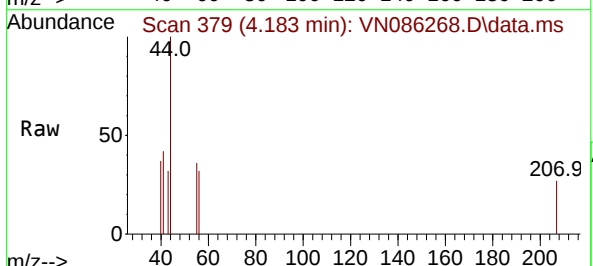
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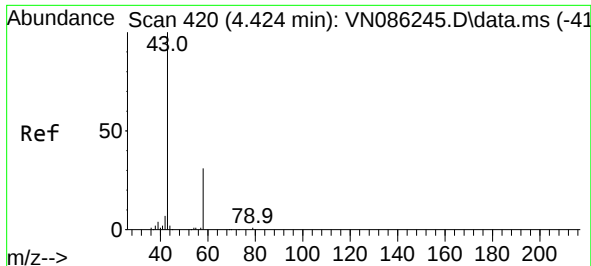
Tgt Ion: 56 Resp: 223

Ion Ratio Lower Upper

56 100

55 204.5 56.5 84.7#





#15

Acetone

Concen: 34.379 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA_N

ClientSampleId :

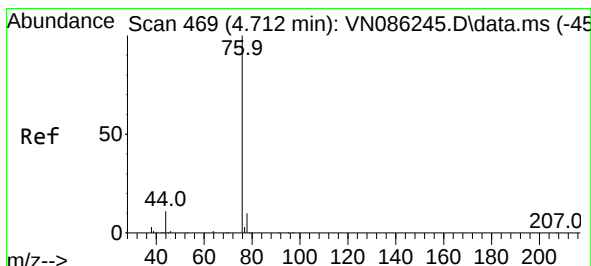
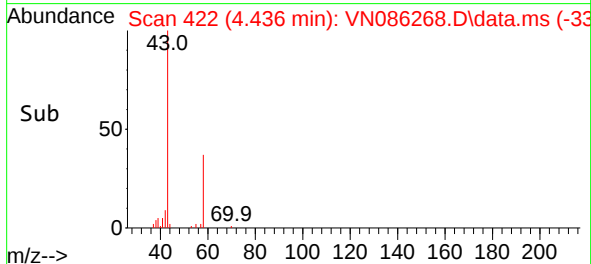
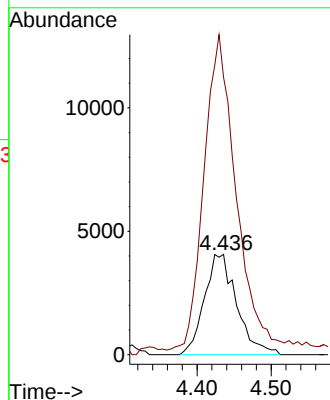
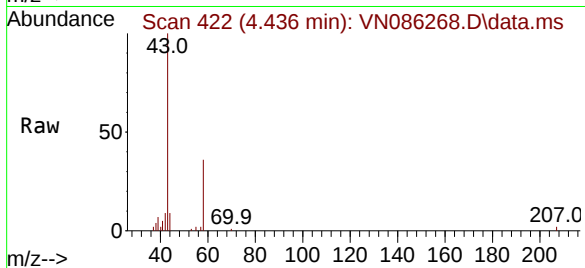
PB167573ZHE#08

Tgt Ion: 58 Resp: 12341

Ion Ratio Lower Upper

58 100

43 267.6 261.8 392.8



#16

Carbon Disulfide

Concen: 1.104 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN086268.D

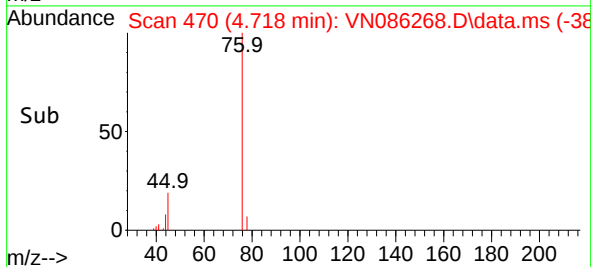
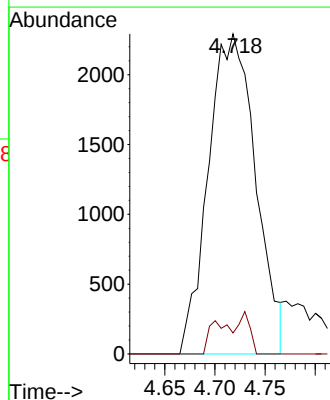
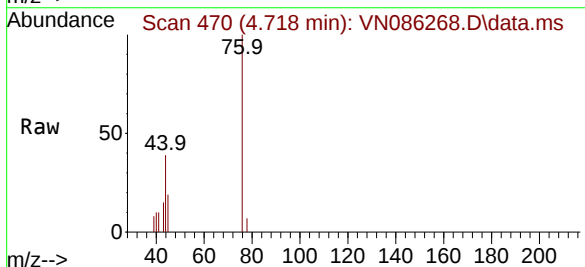
Acq: 14 Apr 2025 14:50

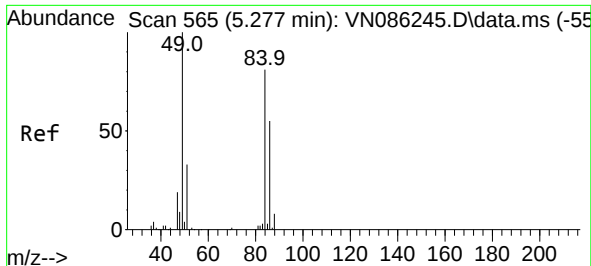
Tgt Ion: 76 Resp: 7517

Ion Ratio Lower Upper

76 100

78 6.5 7.7 11.5#

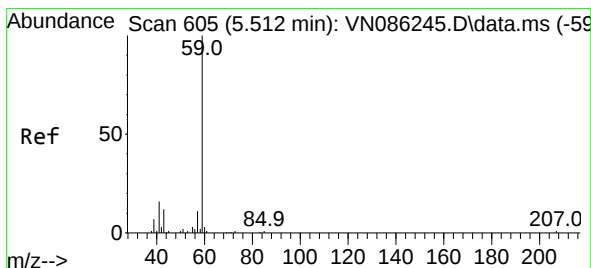
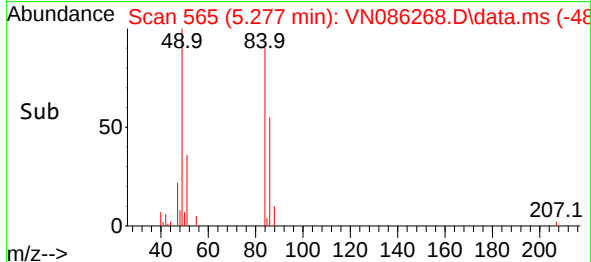
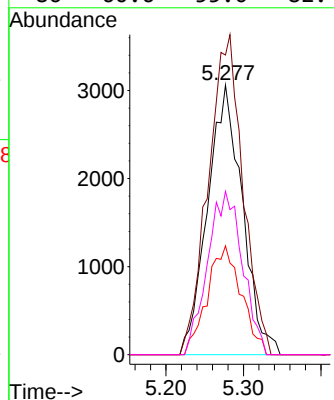
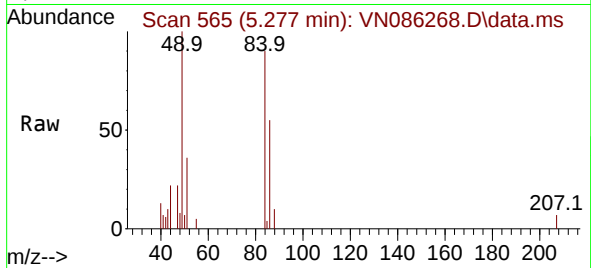




#18
Methylene Chloride
Concen: 3.529 ug/l
RT: 5.277 min Scan# 50
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

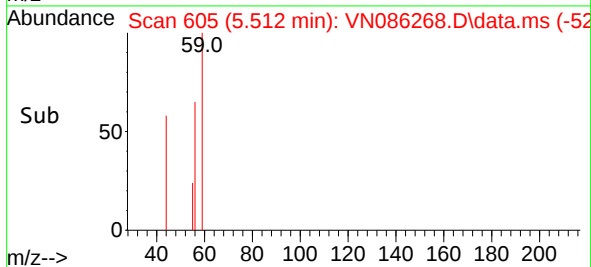
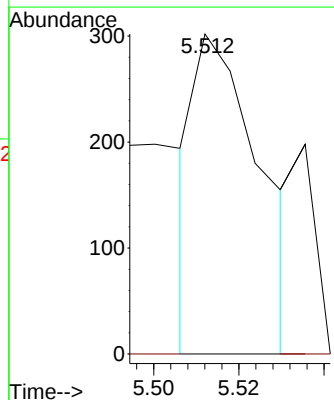
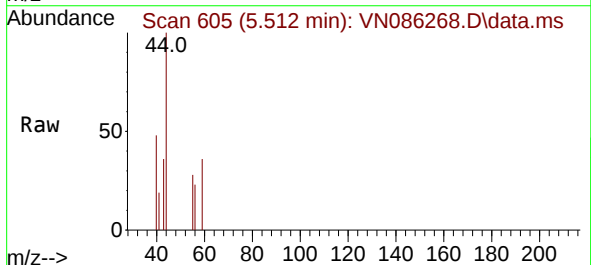
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

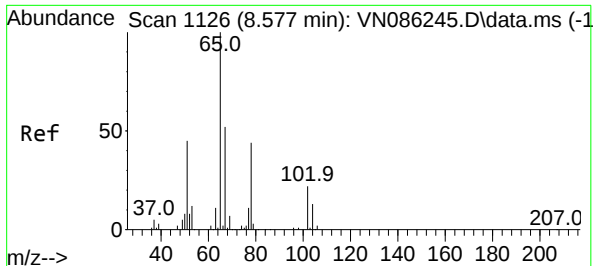
Tgt Ion:	84	Resp:	9555
Ion	Ratio	Lower	Upper
84	100		
49	111.2	99.1	148.7
51	40.3	32.3	48.5
86	60.6	55.0	82.4



#23
tert-Butyl Alcohol
Concen: 0.544 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion:	59	Resp:	319
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 30.558 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA_N

ClientSampleId :

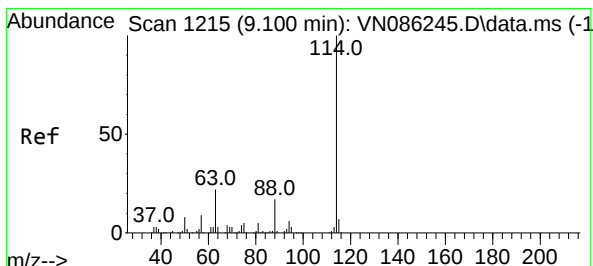
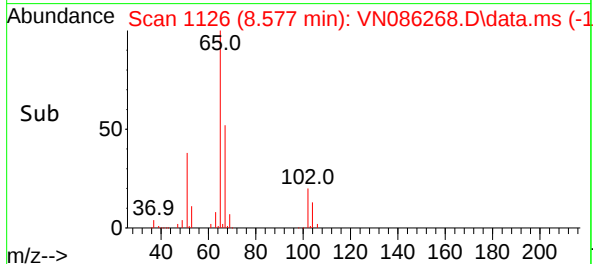
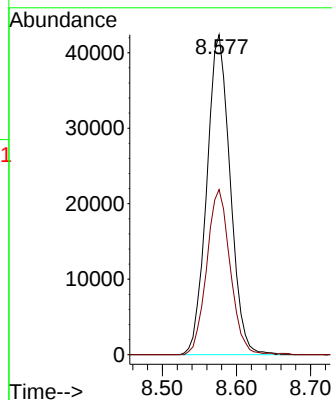
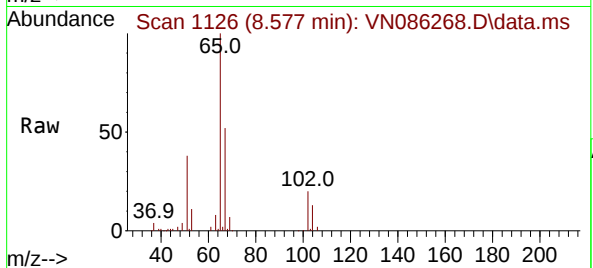
PB167573ZHE#08

Tgt Ion: 65 Resp: 92954

Ion Ratio Lower Upper

65 100

67 51.6 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: VN086268.D

Acq: 14 Apr 2025 14:50

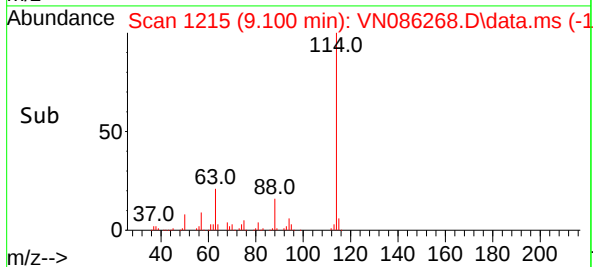
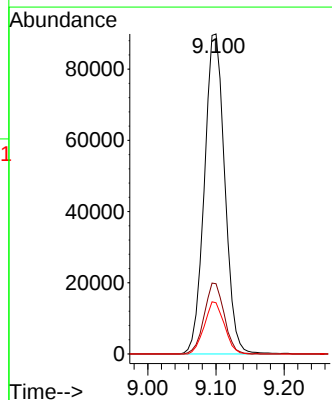
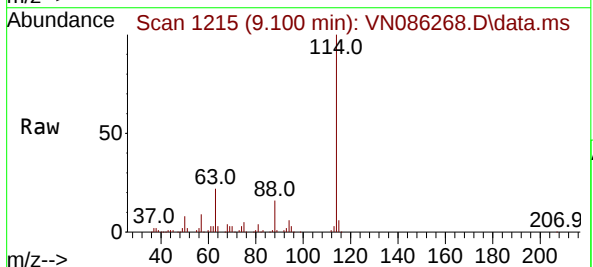
Tgt Ion: 114 Resp: 186915

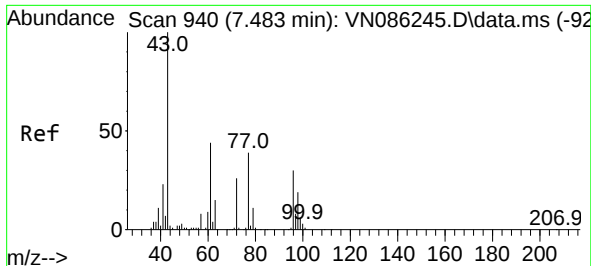
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.0 13.4 20.2

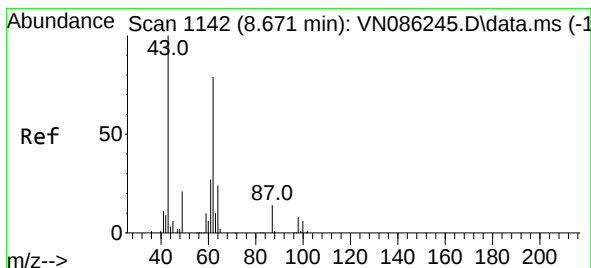
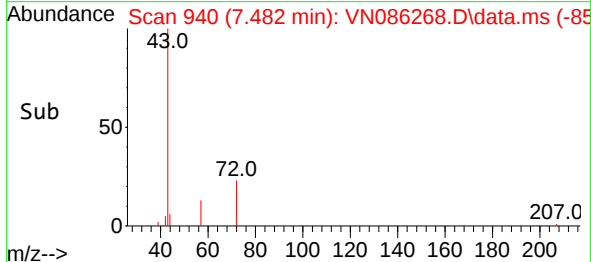
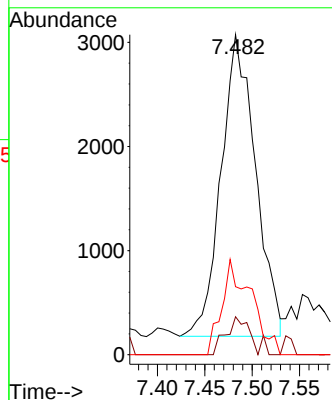
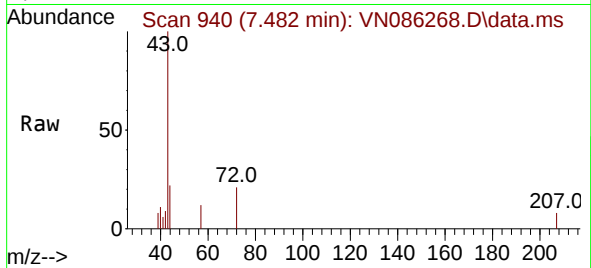




#30
2-Butanone
Concen: 3.946 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

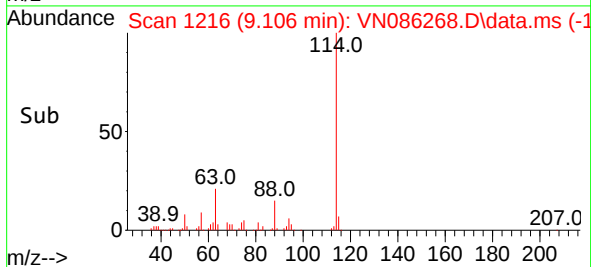
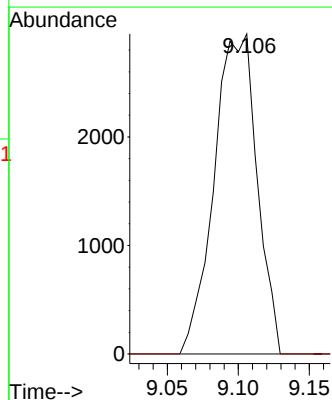
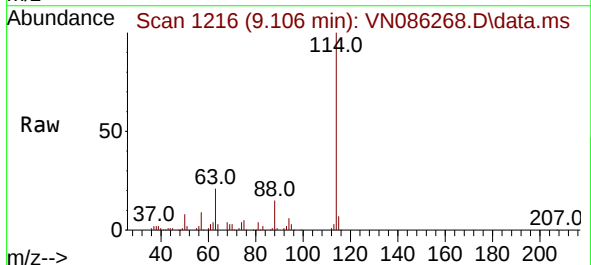
Instrument :
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PB167573ZHE#08

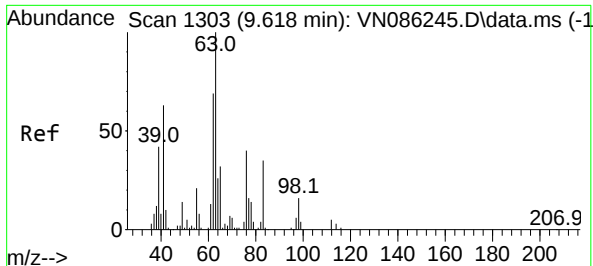
Tgt Ion: 43 Resp: 7322
Ion Ratio Lower Upper
43 100
57 6.4 6.4 9.6#
72 16.2 21.5 32.3#



#36
1,2-Dichloroethane
Concen: 1.859 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.435 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 62 Resp: 6197
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.490 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA_N

ClientSampleId :

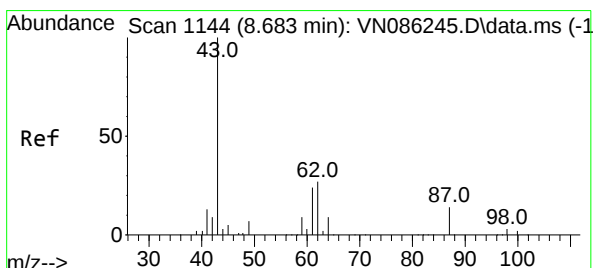
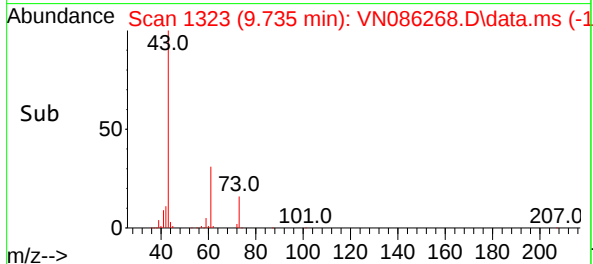
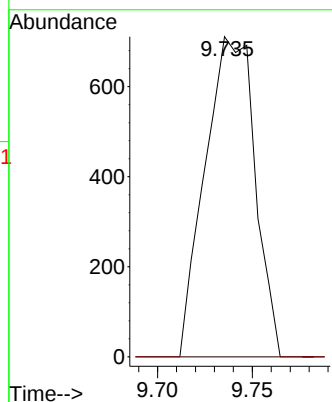
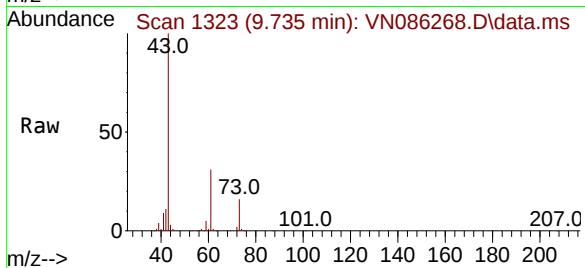
PB167573ZHE#08

Tgt Ion: 63 Resp: 1300

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 6.362 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086268.D

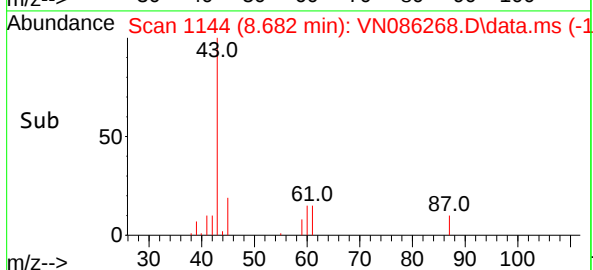
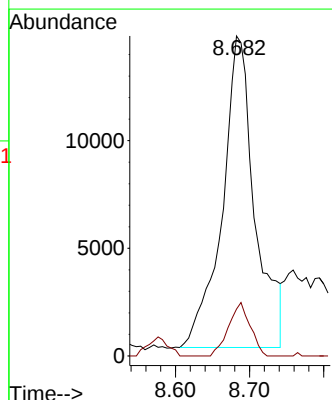
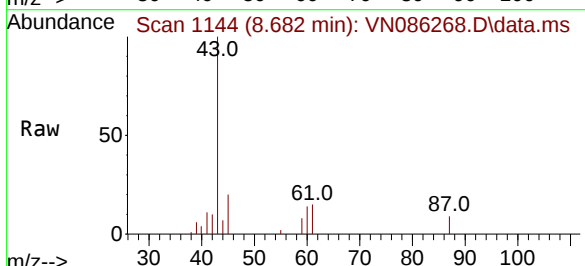
Acq: 14 Apr 2025 14:50

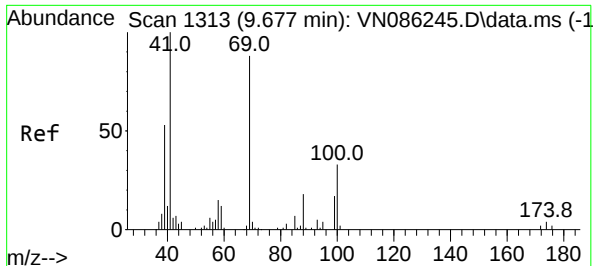
Tgt Ion: 43 Resp: 44168

Ion Ratio Lower Upper

43 100

61 11.4 20.5 30.7#





#46

Methyl methacrylate

Concen: 0.329 ug/l

RT: 9.665 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#08

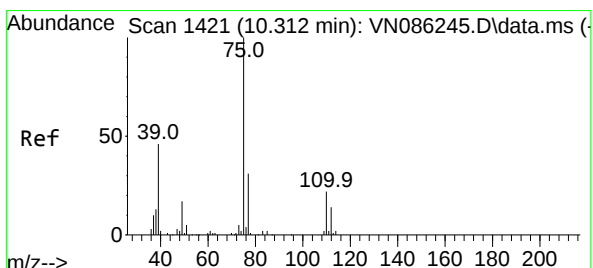
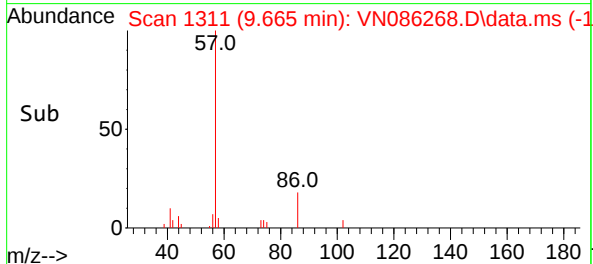
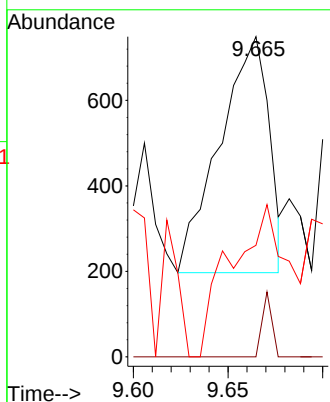
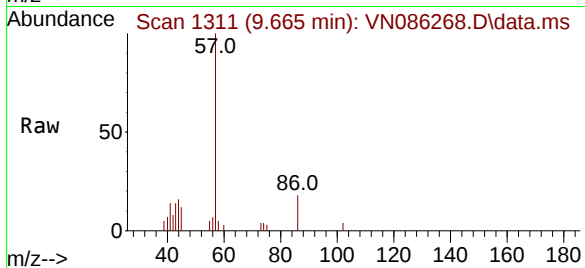
Tgt Ion: 41 Resp: 1005

Ion Ratio Lower Upper

41 100

69 0.0 43.2 129.6#

39 11.8 26.4 79.0#



#49

cis-1,3-Dichloropropene

Concen: 9.920 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

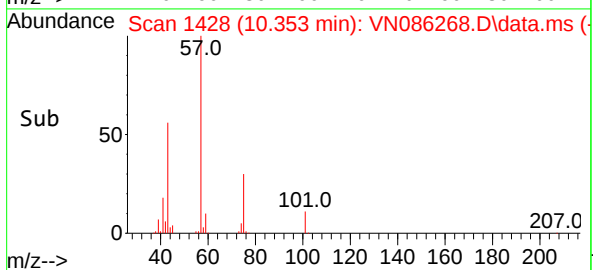
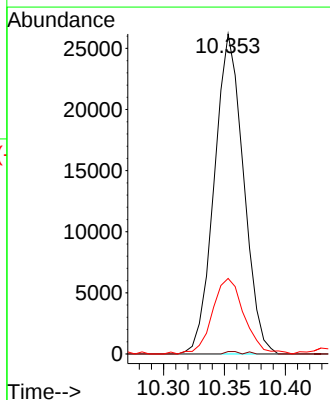
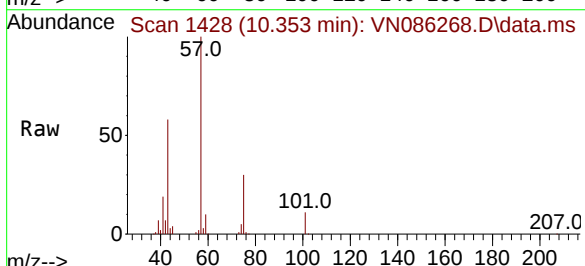
Tgt Ion: 75 Resp: 43653

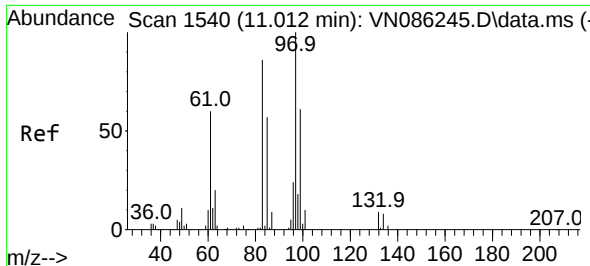
Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

39 23.6 36.7 55.1#

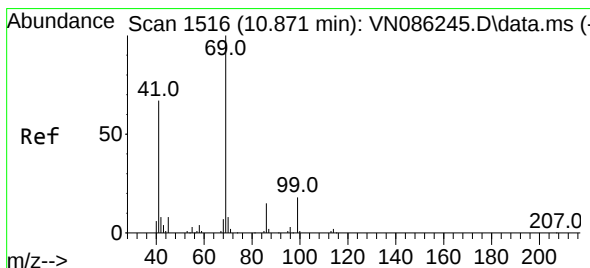
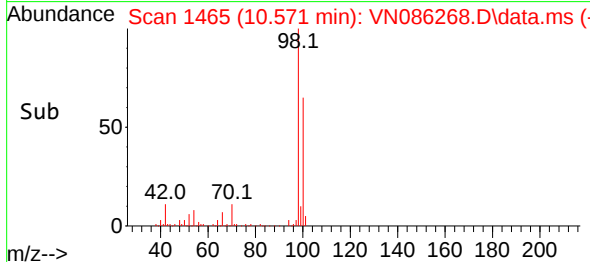
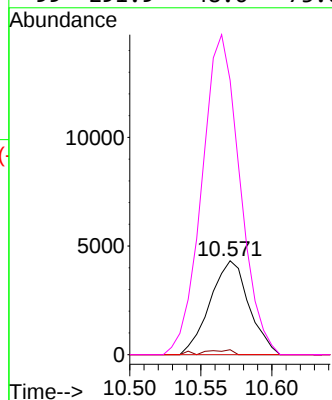
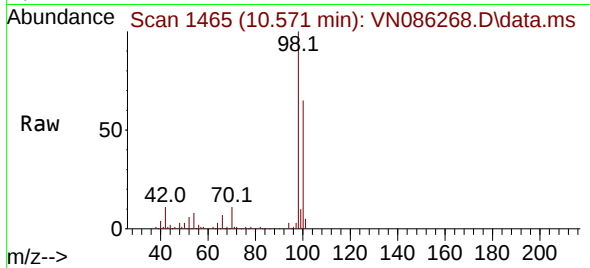




#50
1,1,2-Trichloroethane
Concen: 3.423 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

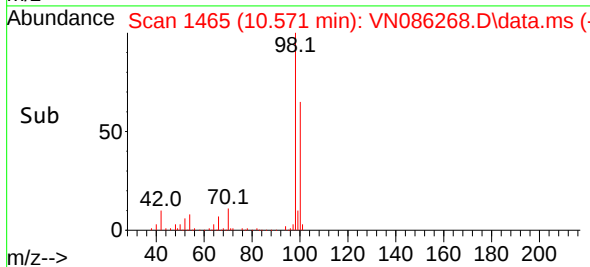
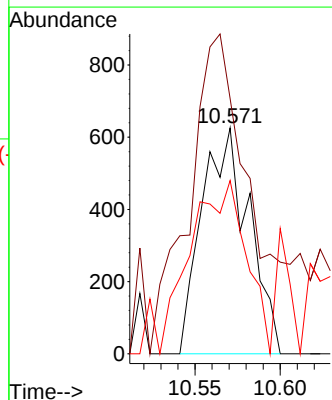
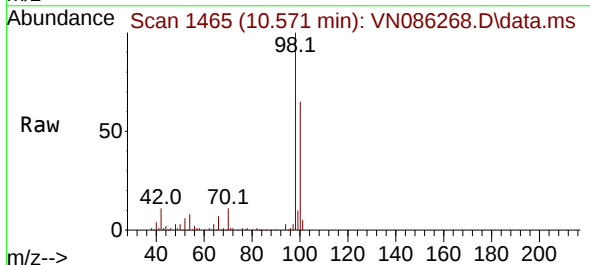
Instrument : MSVOA_N
ClientSampleId : PB167573ZHE#08

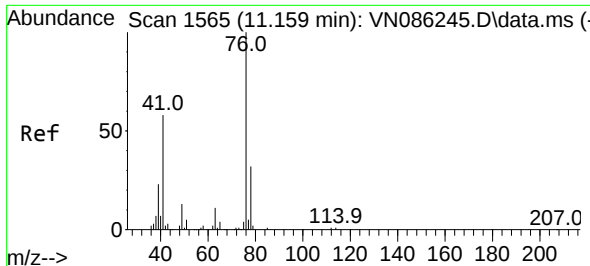
Tgt Ion:	97	Resp:	8218
Ion	Ratio	Lower	Upper
97	100		
83	5.3	68.6	103.0#
85	0.0	45.9	68.9#
99	291.9	48.6	73.0#



#51
Ethyl methacrylate
Concen: 0.269 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.300 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion:	69	Resp:	1200
Ion	Ratio	Lower	Upper
69	100		
41	72.4	33.6	100.6
39	43.1	17.8	53.4

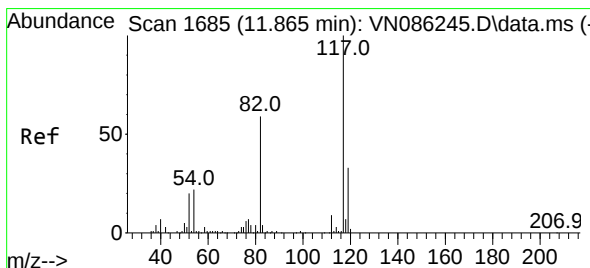
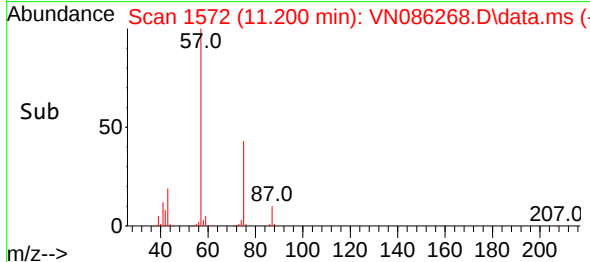
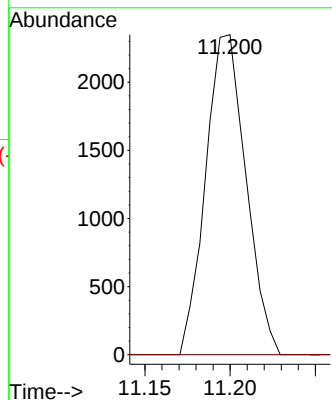
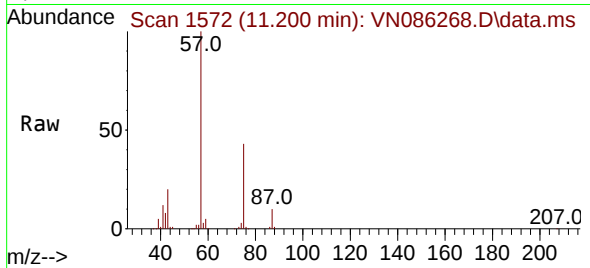




#52
1,3-Dichloropropane
Concen: 0.903 ug/l
RT: 11.200 min Scan# 1565
Delta R.T. 0.041 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

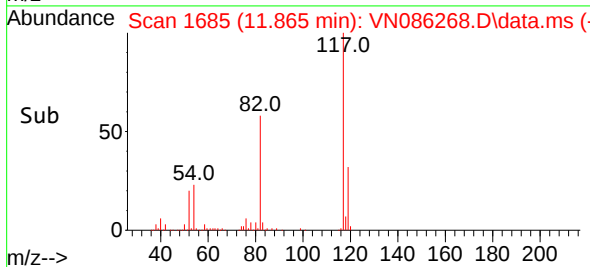
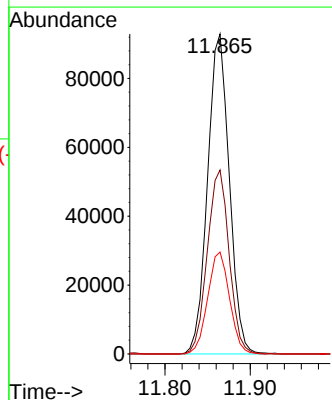
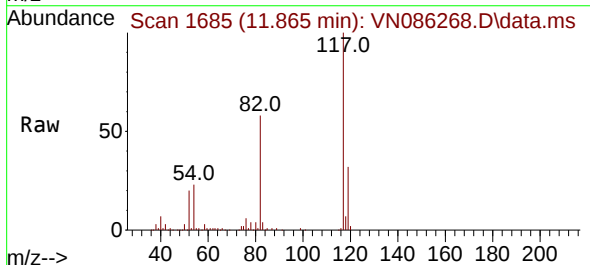
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

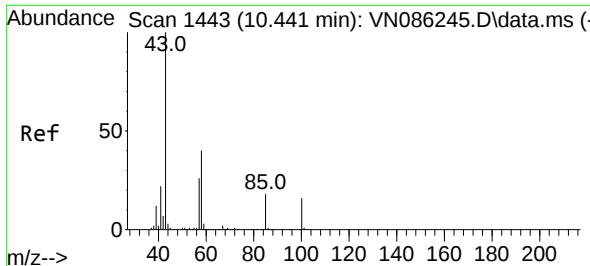
Tgt Ion: 76 Resp: 3865
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 117 Resp: 164558
Ion Ratio Lower Upper
117 100
82 57.8 47.3 70.9
119 32.0 25.9 38.9

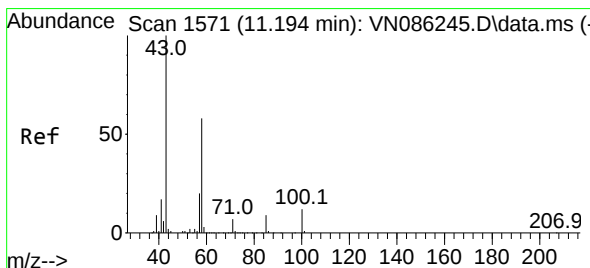
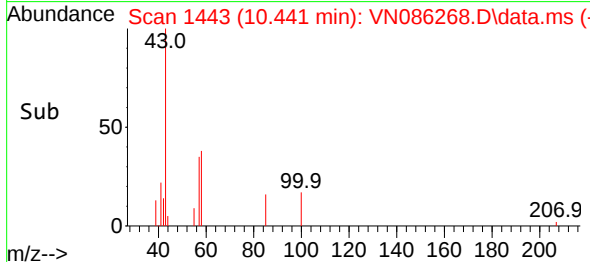
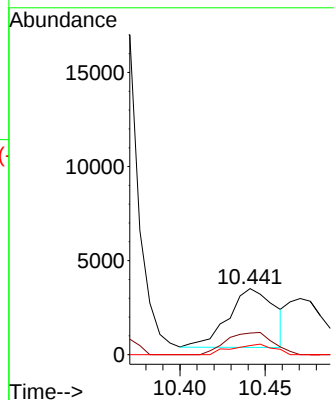
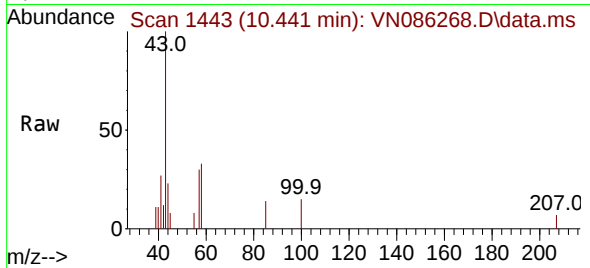




#58
4-Methyl-2-Pentanone
Concen: 1.586 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

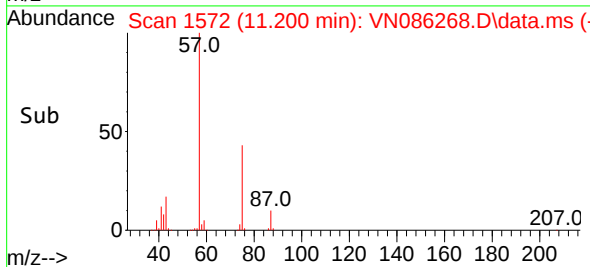
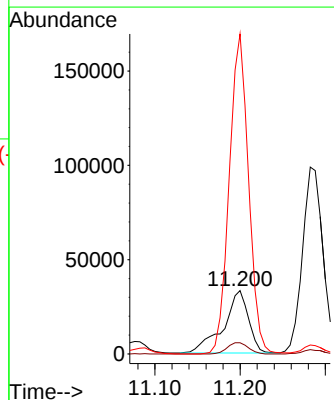
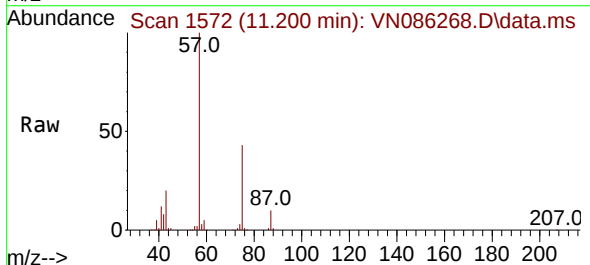
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

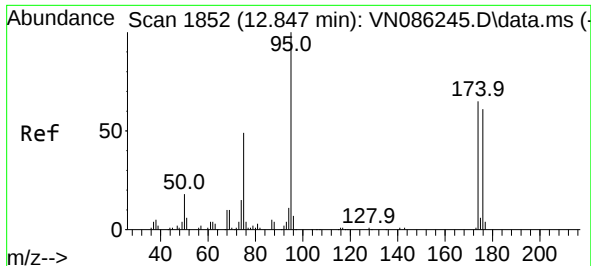
Tgt Ion: 43 Resp: 5924
Ion Ratio Lower Upper
43 100
58 37.9 32.5 48.7
85 16.0 14.4 21.6



#59
2-Hexanone
Concen: 24.426 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 43 Resp: 67920
Ion Ratio Lower Upper
43 100
58 14.9 45.3 67.9#
57 394.1 15.8 23.6#

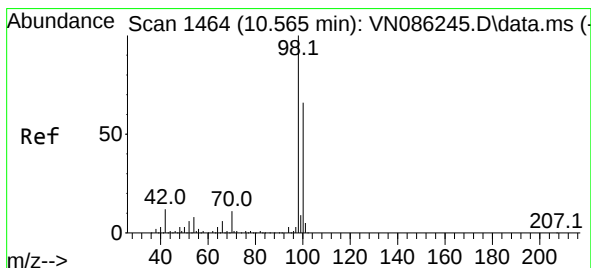
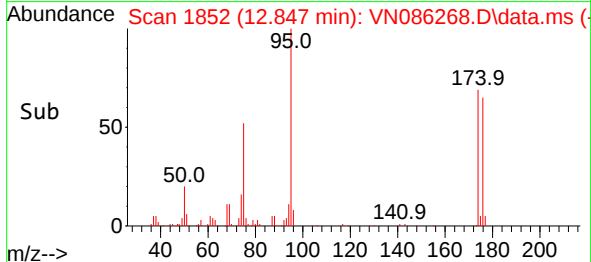
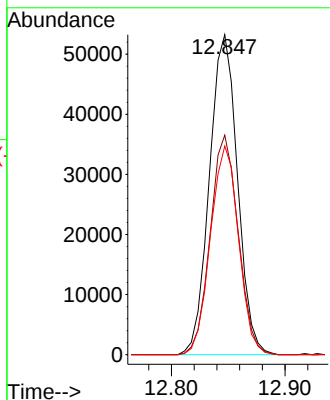
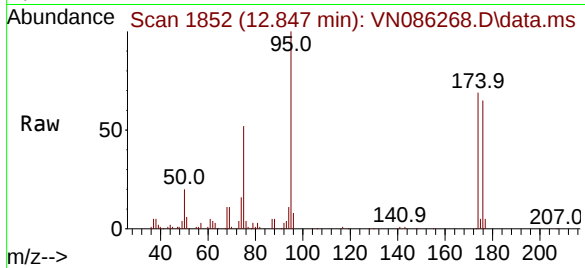




#60
4-Bromofluorobenzene
Concen: 27.944 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

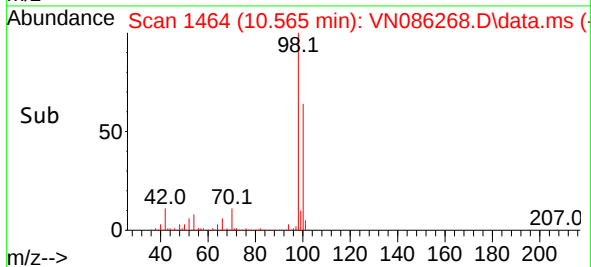
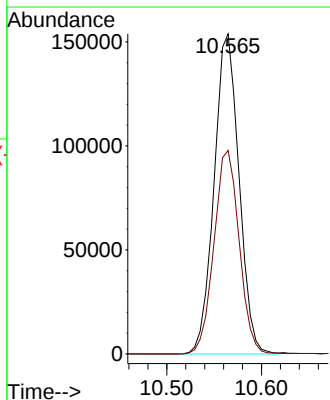
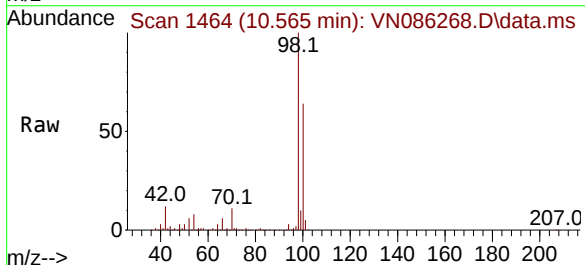
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

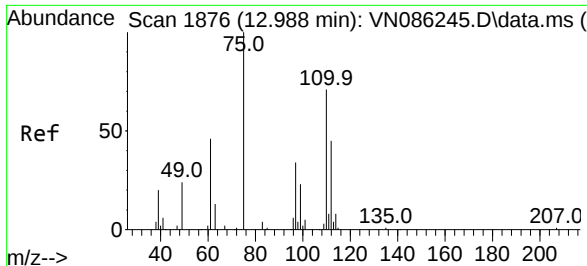
Tgt Ion: 95 Resp: 91553
Ion Ratio Lower Upper
95 100
174 68.3 52.7 79.1
176 65.1 49.8 74.8



#63
Toluene-d8
Concen: 30.271 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 98 Resp: 281222
Ion Ratio Lower Upper
98 100
100 64.3 52.3 78.5

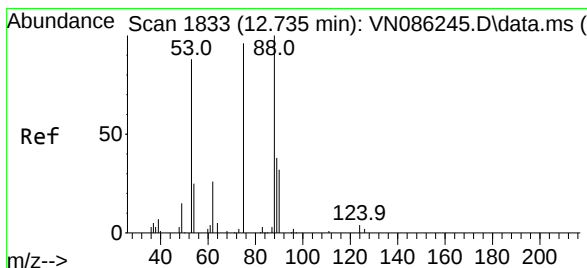
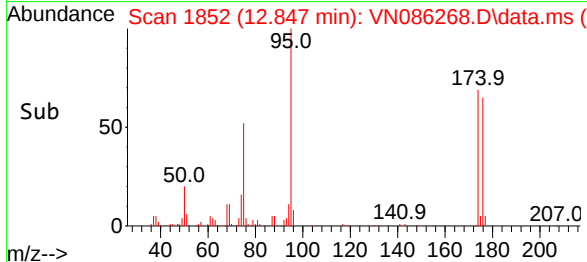
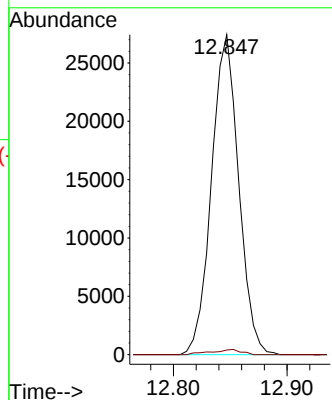
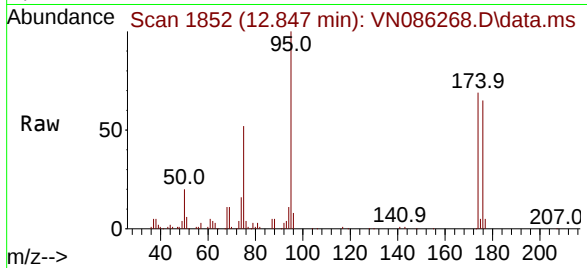




#72
1,2,3-Trichloropropane
Concen: 13.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#08

Tgt Ion: 75 Resp: 45602
Ion Ratio Lower Upper
75 100
77 1.8 0.0 380.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086268.D
Acq: 14 Apr 2025 14:50

Tgt Ion: 75 Resp: 45602
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

