

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084073.D
 Acq On : 20 Sep 2024 16:21
 Operator : JC\MD
 Sample : PB163512ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#06

Quant Time: Sep 23 01:05:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

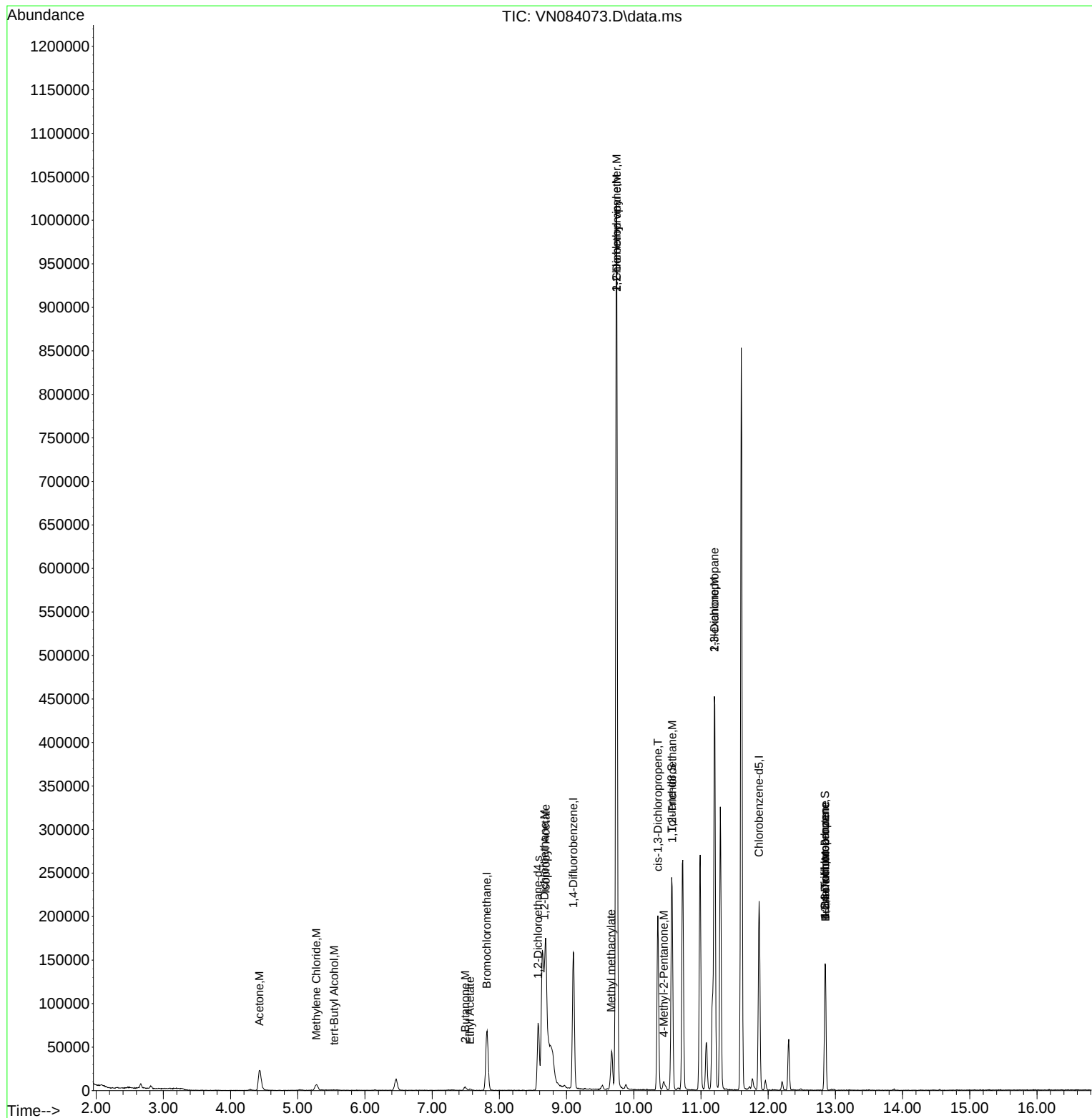
Internal Standards						
1) Bromochloromethane	7.812	128	23463	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	128201	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	116622	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	65947	30.749	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.500%
60) 4-Bromofluorobenzene	12.847	95	48741	24.250	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.833%
63) Toluene-d8	10.565	98	161899	29.981	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.933%
Target Compounds						
					Qvalue	
15) Acetone	4.430	58	13868	58.741	ug/l	81
18) Methylene Chloride	5.277	84	3206	2.010	ug/l	88
23) tert-Butyl Alcohol	5.541	59	123	0.471	ug/l #	100
30) 2-Butanone	7.494	43	7048	7.353	ug/l #	88
36) 1,2-Dichloroethane	8.671	62	577	0.252	ug/l #	72
39) 1,2-Dichloropropane	9.747	63	1091	0.743	ug/l #	43
43) Ethyl Acetate	7.565	43	2903	1.505	ug/l #	67
44) Isopropyl Acetate	8.688	43	161800	48.487	ug/l #	68
46) Methyl methacrylate	9.665	41	2010	1.244	ug/l #	26
49) cis-1,3-Dichloropropene	10.359	75	32849	13.152	ug/l #	71
50) 1,1,2-Trichloroethane	10.571	97	5092	3.727	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	4450	1.804	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.747	63	1091	1.173	ug/l #	43
56) Bromoform	12.853	173	418	0.402	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	7205	3.896	ug/l #	83
59) 2-Hexanone	11.200	43	63382	45.361	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	28442	16.581	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28442	39.229	ug/l #	12

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

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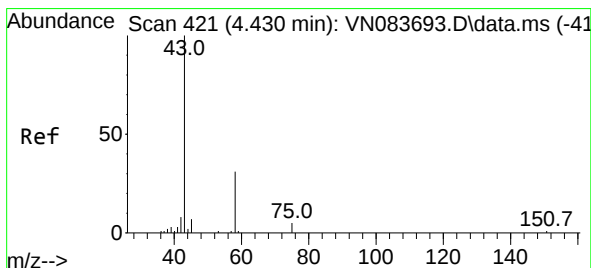
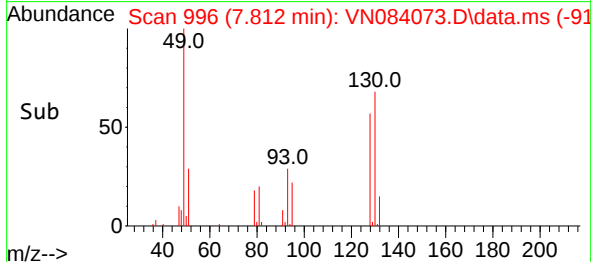
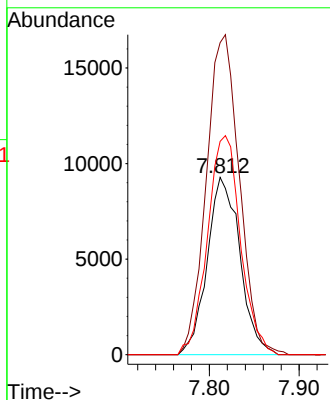
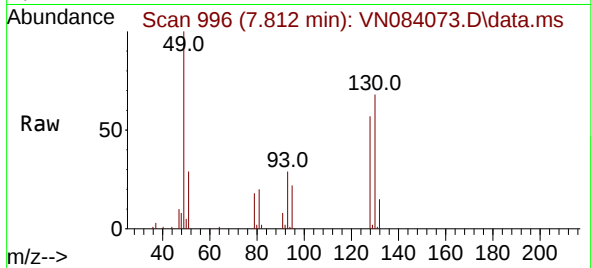




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

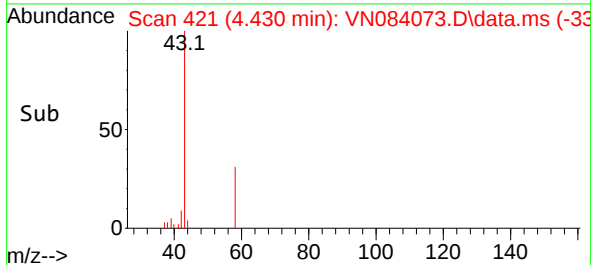
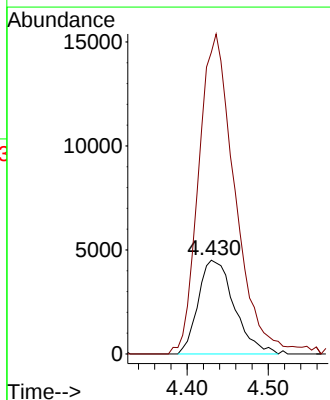
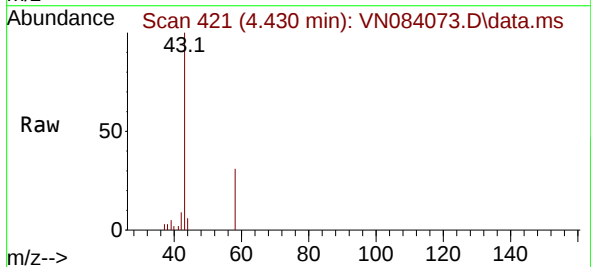
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

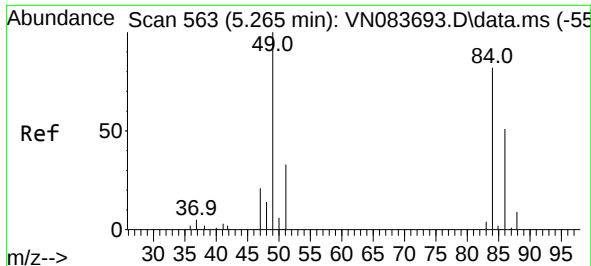
Tgt Ion:128 Resp: 23463
Ion Ratio Lower Upper
128 100
49 182.7 0.0 403.7
130 124.8 0.0 323.3



#15
Acetone
Concen: 58.741 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

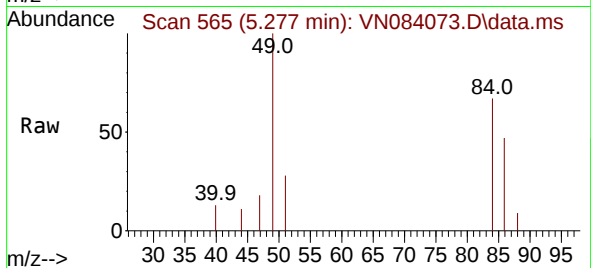
Tgt Ion: 58 Resp: 13868
Ion Ratio Lower Upper
58 100
43 314.7 223.1 334.7



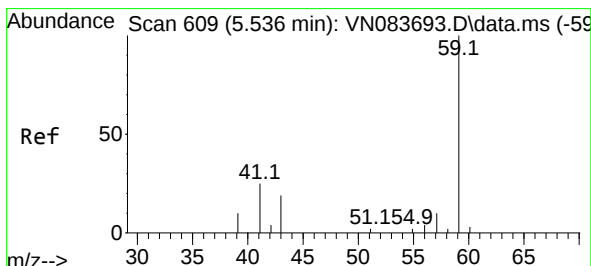
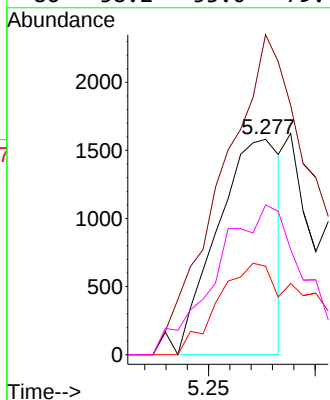
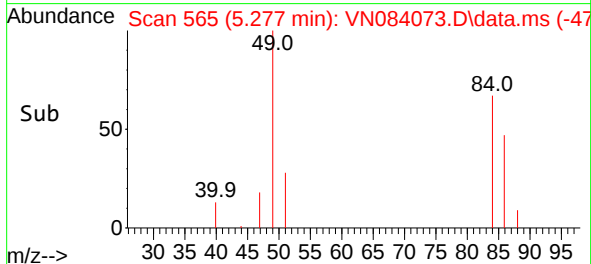


#18
Methylene Chloride
Concen: 2.010 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

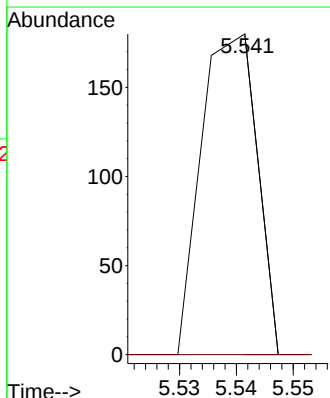
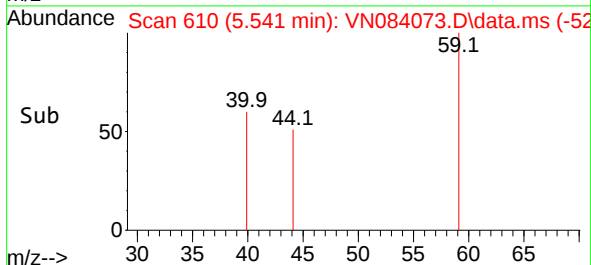
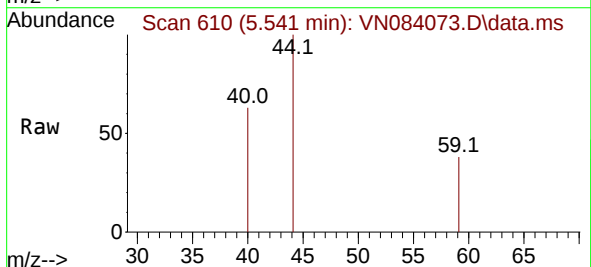


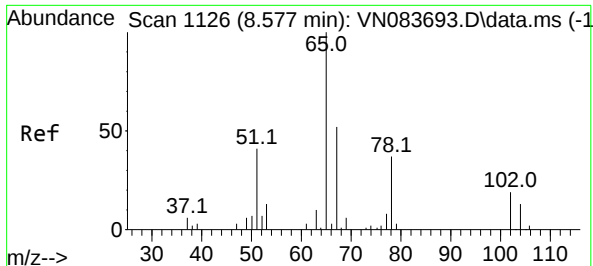
Tgt Ion: 84	Resp: 3206
Ion Ratio	Lower Upper
84 100	
49 122.9	86.0 129.0
51 41.1	30.0 45.0
86 58.2	53.0 79.4



#23
tert-Butyl Alcohol
Concen: 0.471 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 59	Resp: 123		
Ion Ratio	Lower	Upper	
59 100			
52 0.0	0.0	0.0	

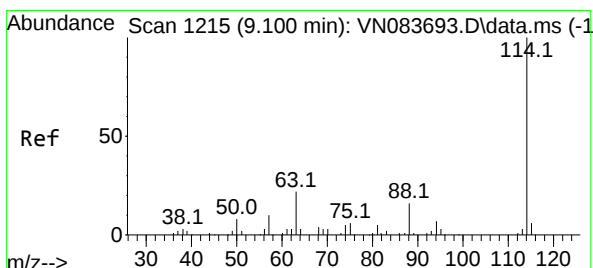
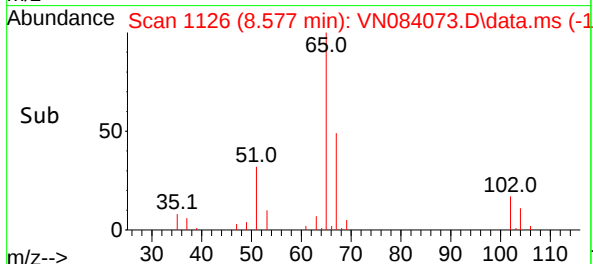
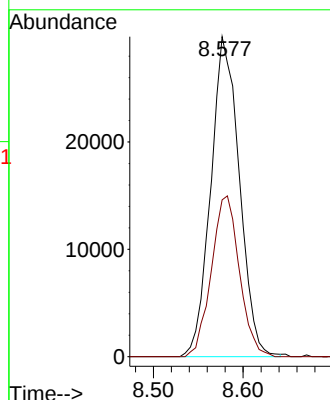
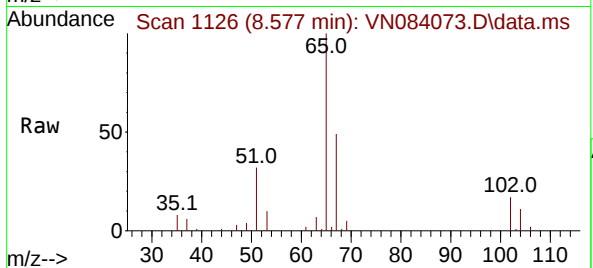




#27
1,2-Dichloroethane-d4
Concen: 30.749 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

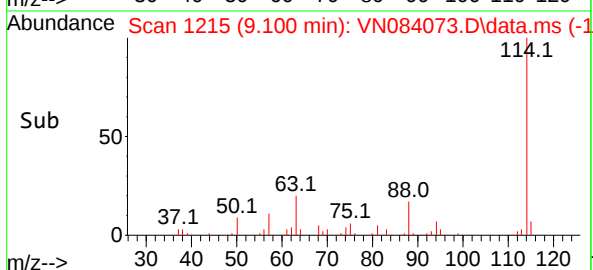
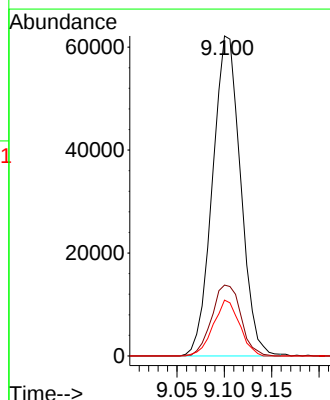
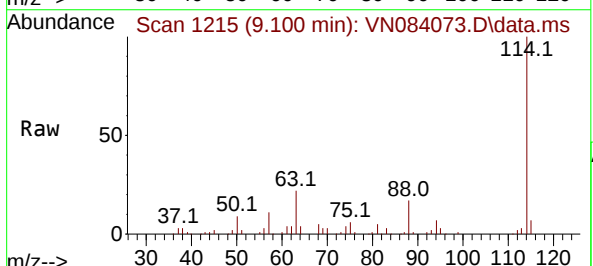
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

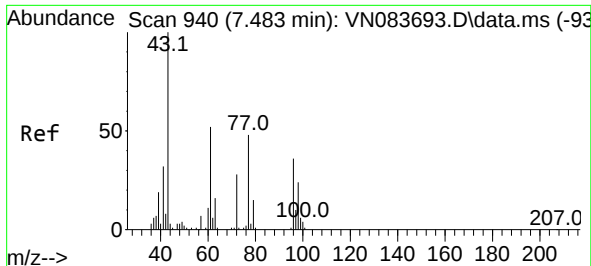
Tgt Ion: 65 Resp: 65947
Ion Ratio Lower Upper
65 100
67 49.3 43.2 64.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 114 Resp: 128201
Ion Ratio Lower Upper
114 100
63 23.0 15.9 23.9
88 16.4 12.7 19.1

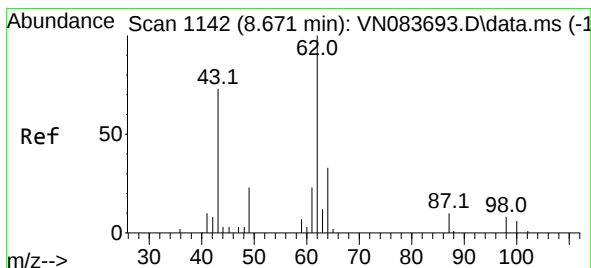
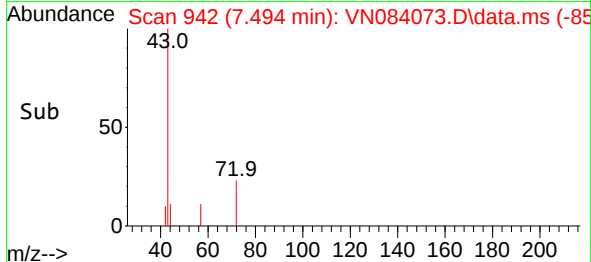
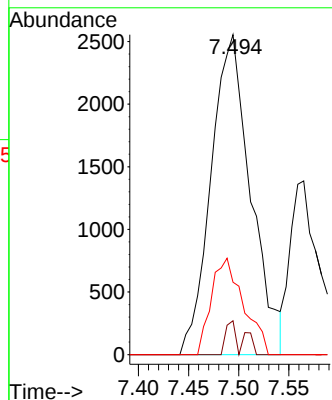
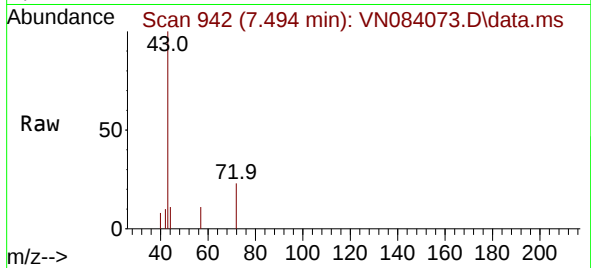




#30
2-Butanone
Concen: 7.353 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

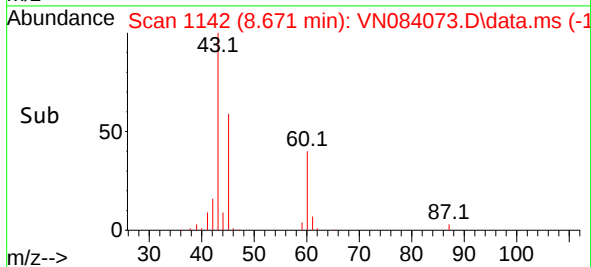
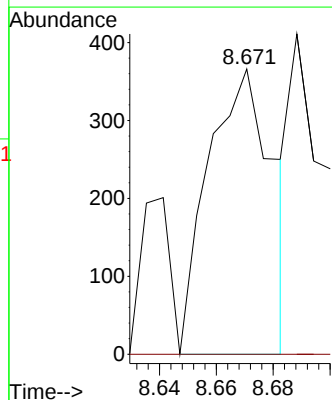
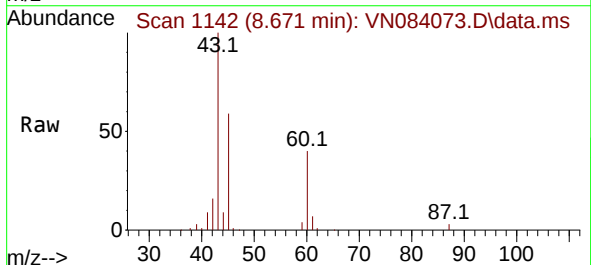
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

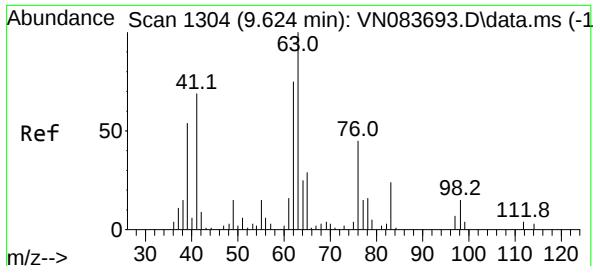
Tgt Ion: 43 Resp: 7048
Ion Ratio Lower Upper
43 100
57 2.5 6.7 10.1#
72 24.4 24.0 36.0



#36
1,2-Dichloroethane
Concen: 0.252 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 62 Resp: 577
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#

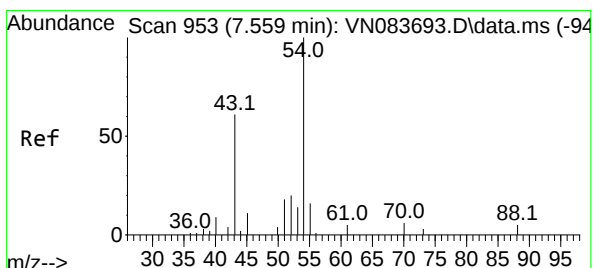
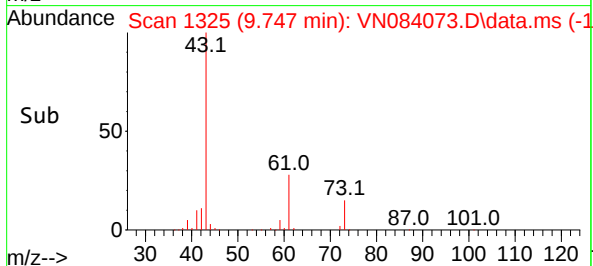
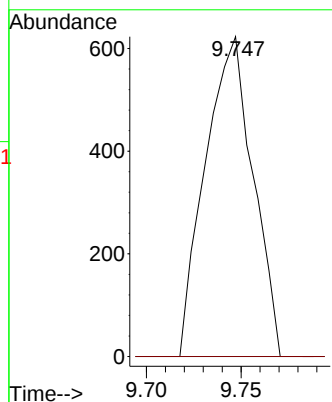
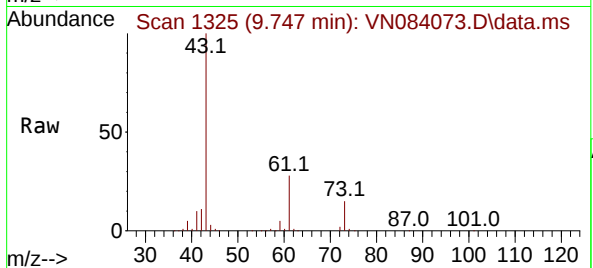




#39
1,2-Dichloropropane
Concen: 0.743 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

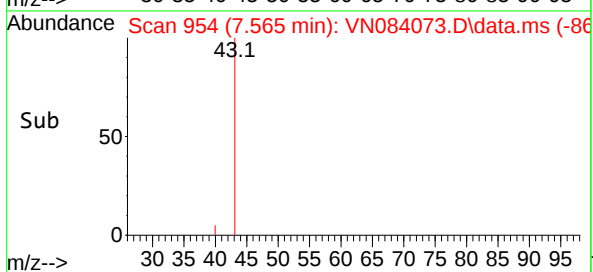
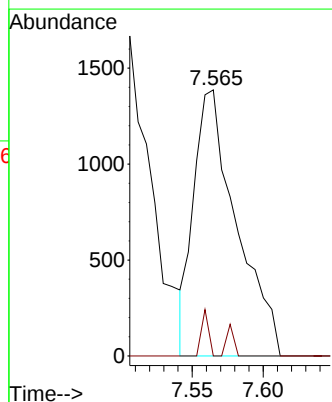
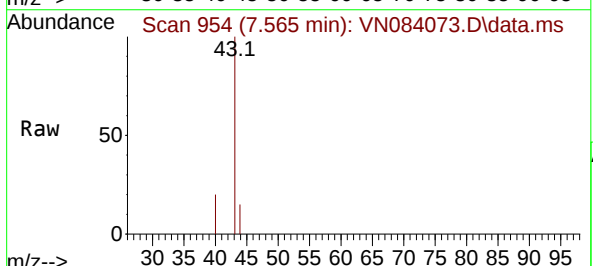
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

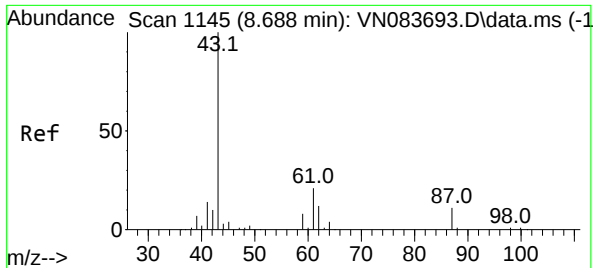
Tgt Ion: 63 Resp: 1091
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#



#43
Ethyl Acetate
Concen: 1.505 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 43 Resp: 2903
Ion Ratio Lower Upper
43 100
45 0.0 10.6 15.8#

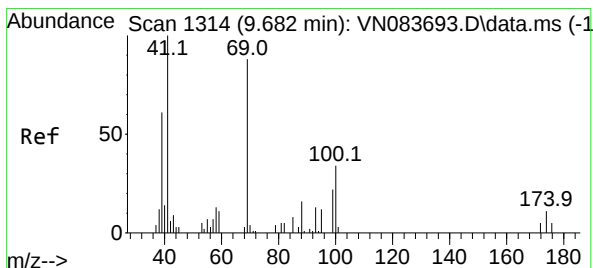
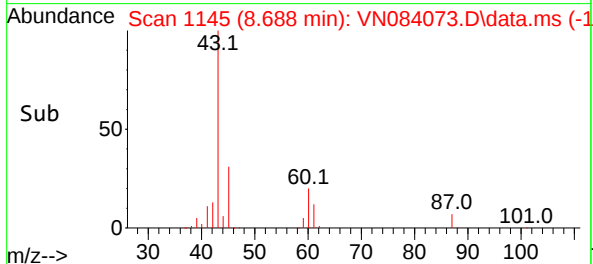
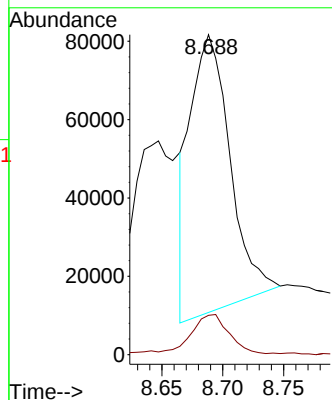
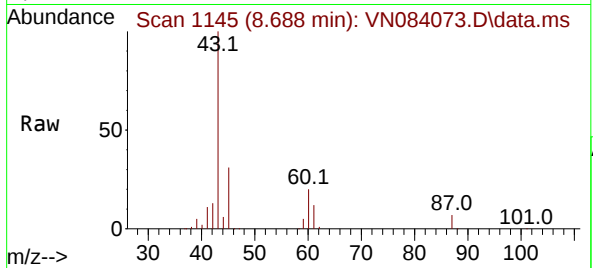




#44
Isopropyl Acetate
Concen: 48.487 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

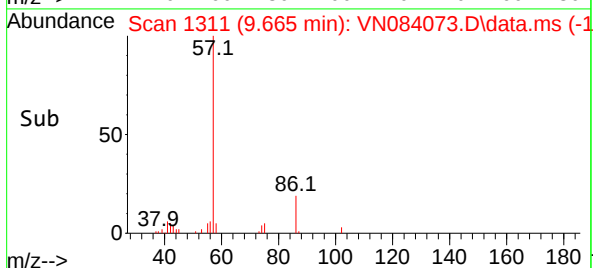
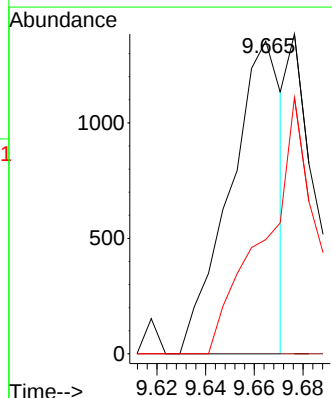
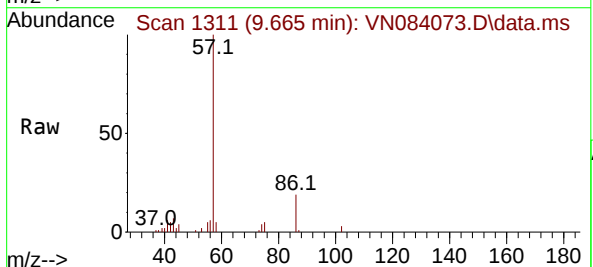
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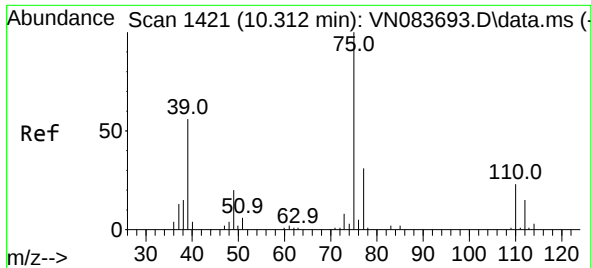
Tgt Ion: 43 Resp: 161800
Ion Ratio Lower Upper
43 100
61 13.4 25.0 37.4#



#46
Methyl methacrylate
Concen: 1.244 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 41 Resp: 2010
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 36.6 25.8 77.3





#49

cis-1,3-Dichloropropene

Concen: 13.152 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084073.D

Acq: 20 Sep 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#06

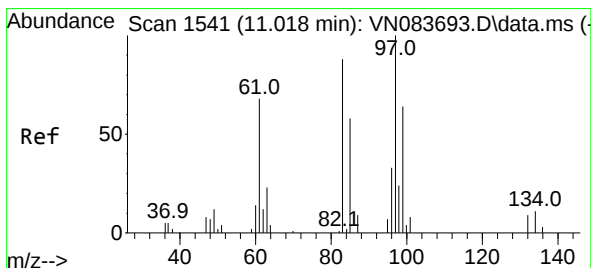
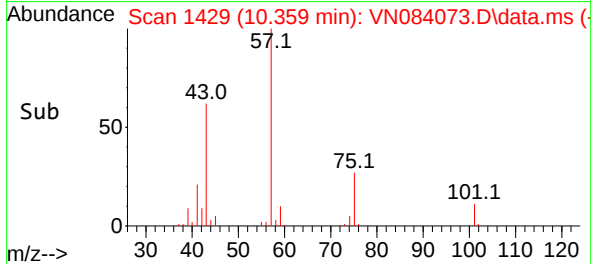
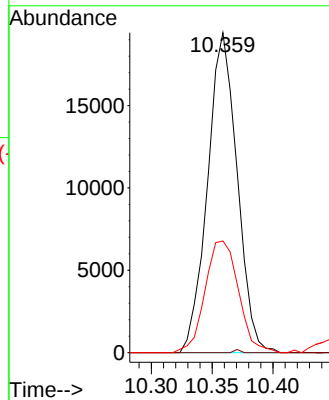
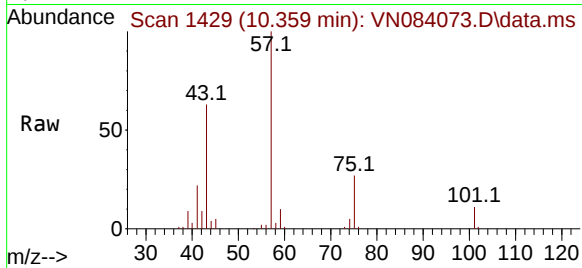
Tgt Ion: 75 Resp: 32849

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

39 34.9 31.0 46.6



#50

1,1,2-Trichloroethane

Concen: 3.727 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

Lab File: VN084073.D

Acq: 20 Sep 2024 16:21

Tgt Ion: 97 Resp: 5092

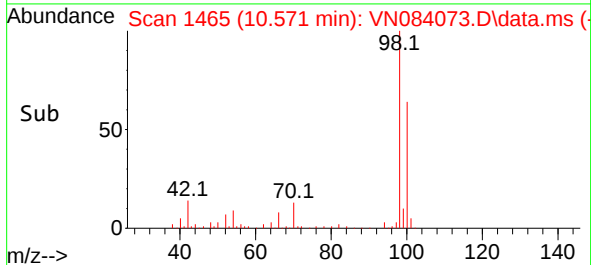
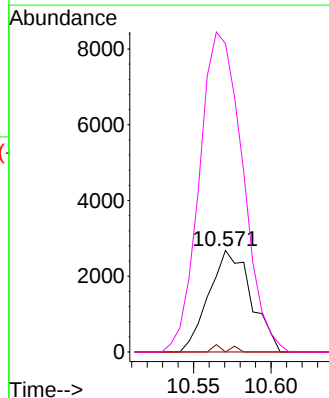
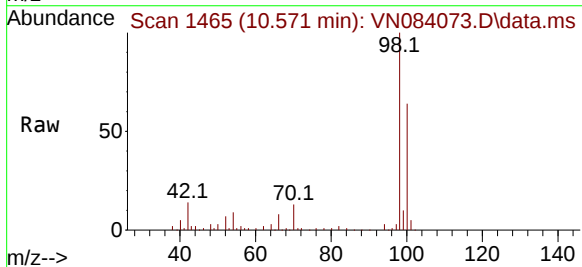
Ion Ratio Lower Upper

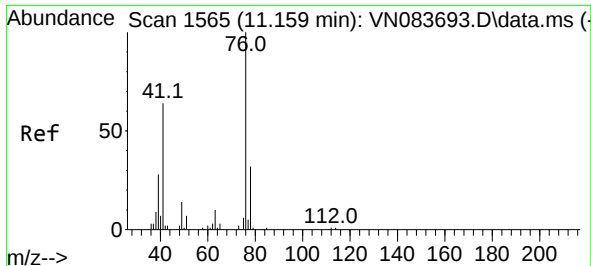
97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 297.3 47.0 70.4#

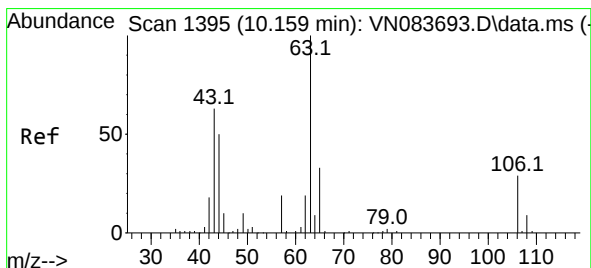
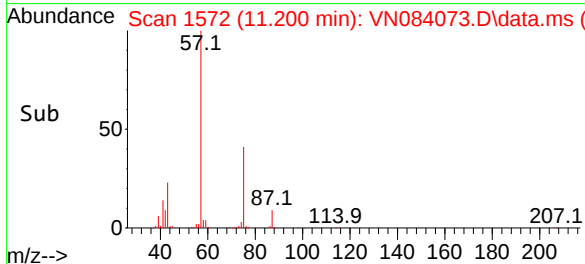
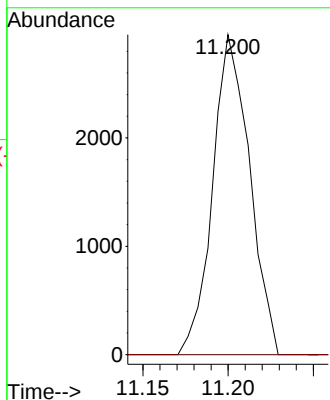
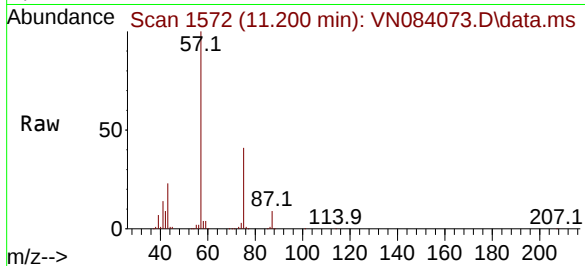




#52
1,3-Dichloropropane
Concen: 1.804 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.041 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

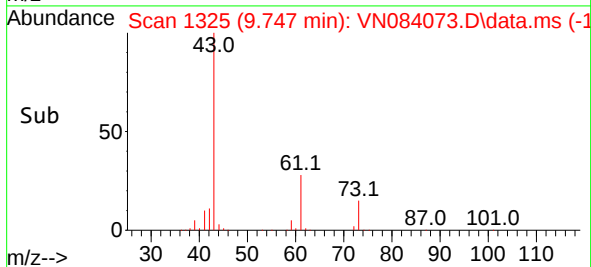
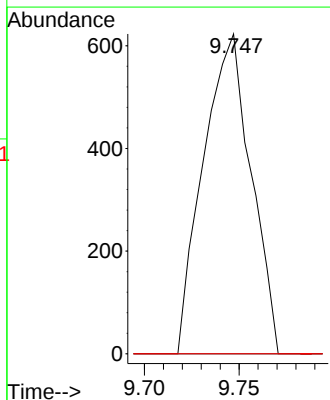
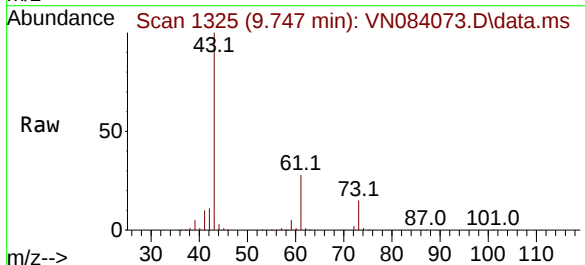
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

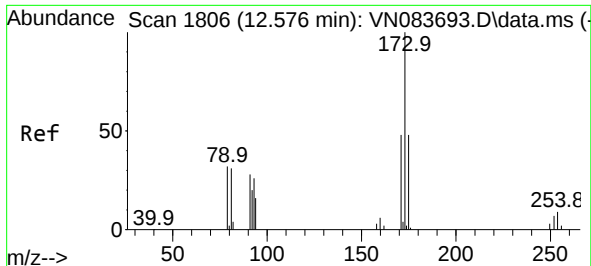
Tgt Ion: 76 Resp: 4450
Ion Ratio Lower Upper
76 100
78 0.0 0.0 65.8



#55
2-Chloroethyl vinyl ether
Concen: 1.173 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. -0.412 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 63 Resp: 1091
Ion Ratio Lower Upper
63 100
65 0.0 26.2 39.2#
106 0.0 23.8 35.8#

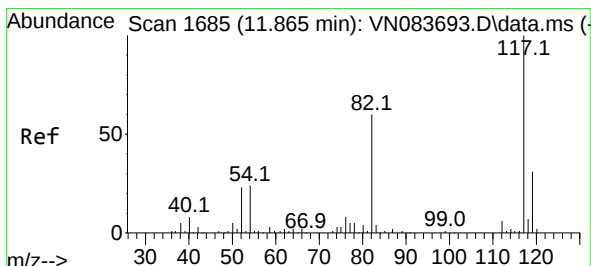
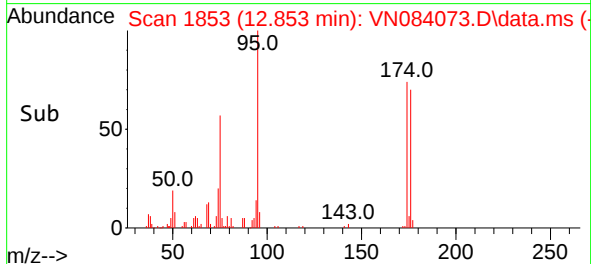
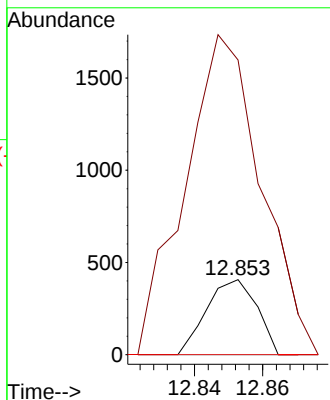
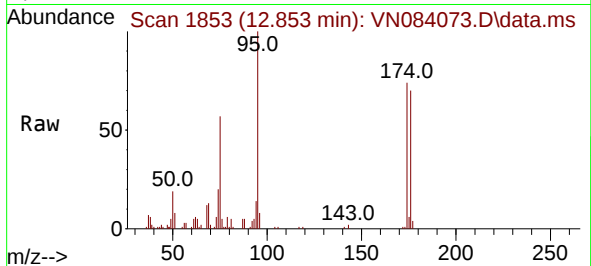




#56
Bromoform
Concen: 0.402 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

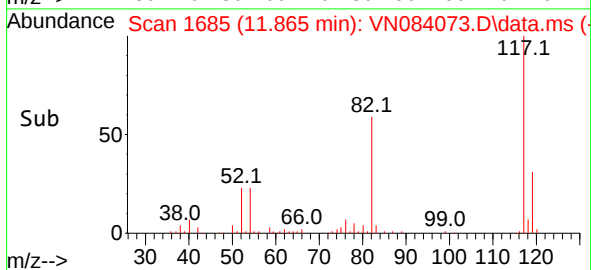
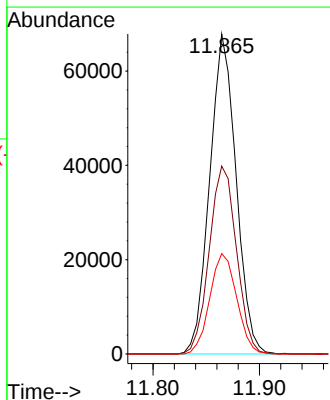
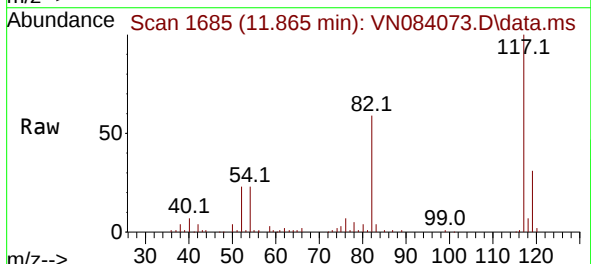
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

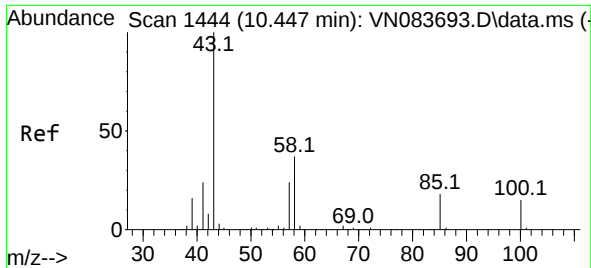
Tgt Ion:173 Resp: 418
Ion Ratio Lower Upper
173 100
175 647.6 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion:117 Resp: 116622
Ion Ratio Lower Upper
117 100
82 60.6 46.6 69.8
119 32.0 25.4 38.2

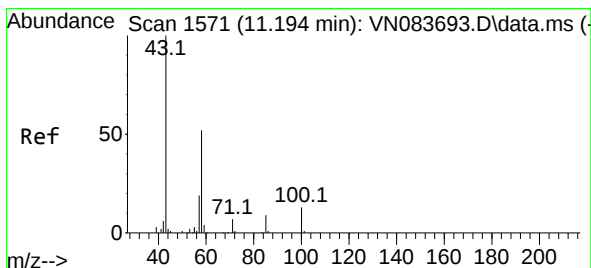
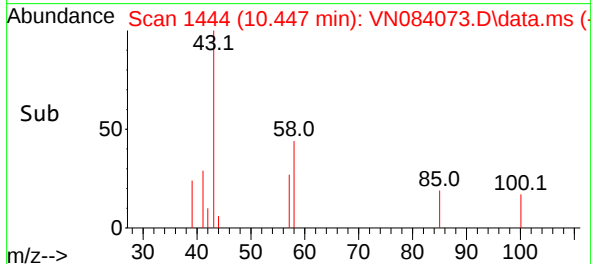
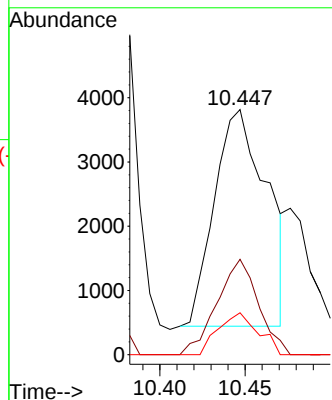
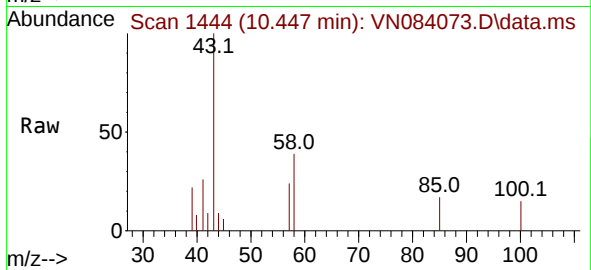




#58
4-Methyl-2-Pentanone
Concen: 3.896 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

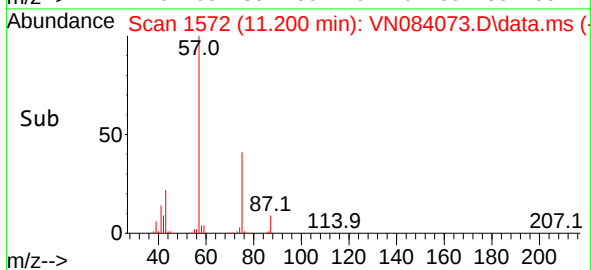
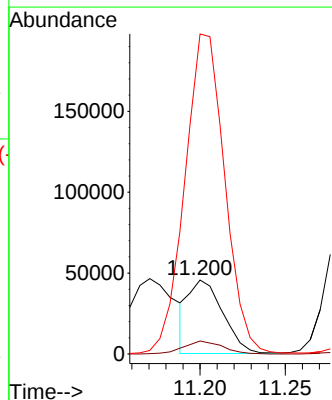
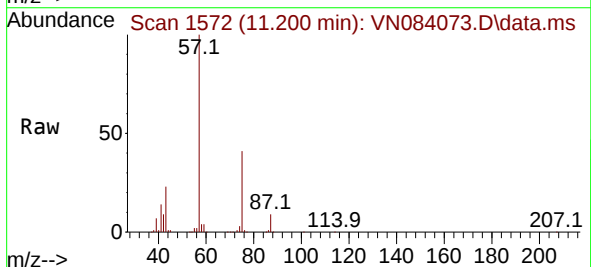
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

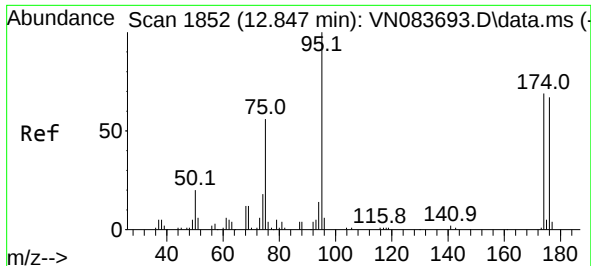
Tgt Ion: 43 Resp: 7205
Ion Ratio Lower Upper
43 100
58 34.9 36.5 54.7#
85 14.7 19.5 29.3#



#59
2-Hexanone
Concen: 45.361 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 43 Resp: 63382
Ion Ratio Lower Upper
43 100
58 19.9 50.4 75.6#
57 511.1 18.6 27.8#

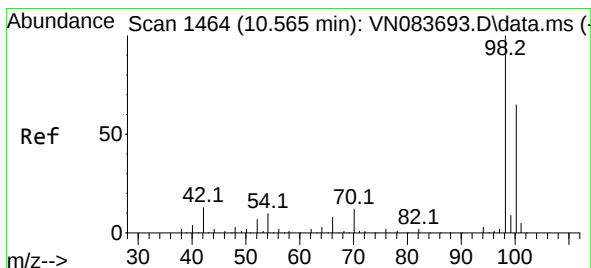
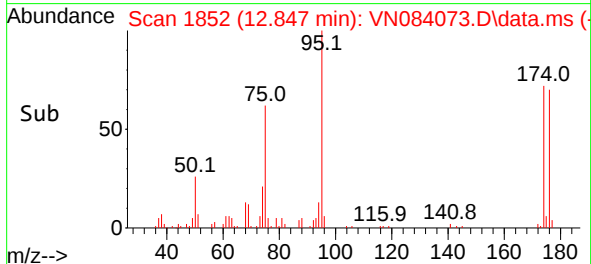
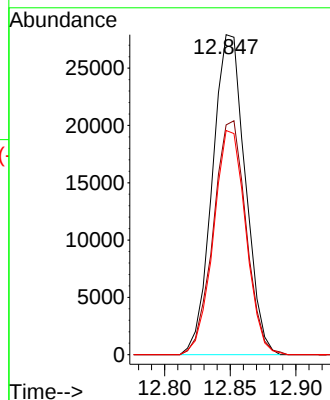
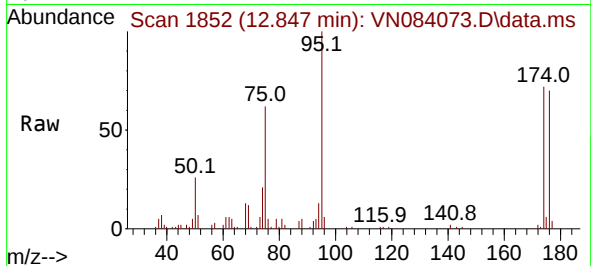




#60
4-Bromofluorobenzene
Concen: 24.250 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

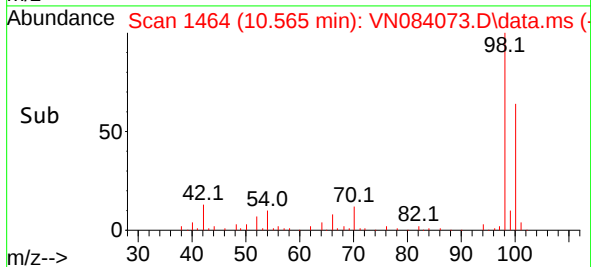
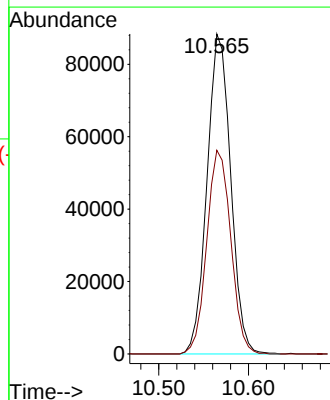
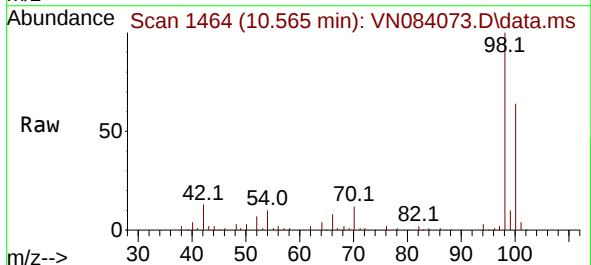
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

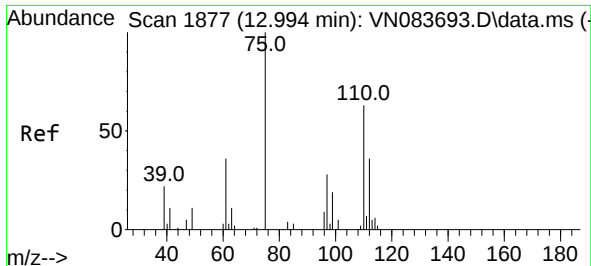
Tgt Ion: 95 Resp: 48741
Ion Ratio Lower Upper
95 100
174 72.7 60.5 90.7
176 68.8 57.8 86.6



#63
Toluene-d8
Concen: 29.981 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 98 Resp: 161899
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1

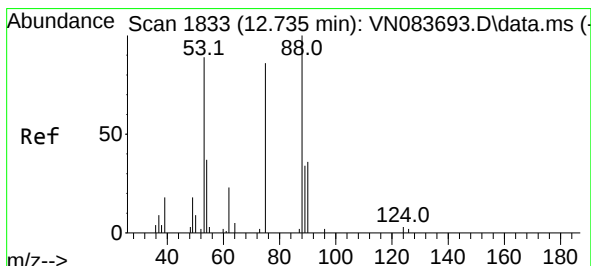
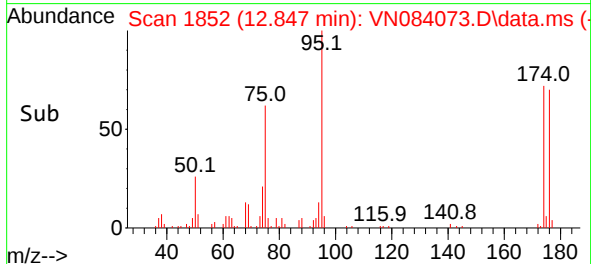
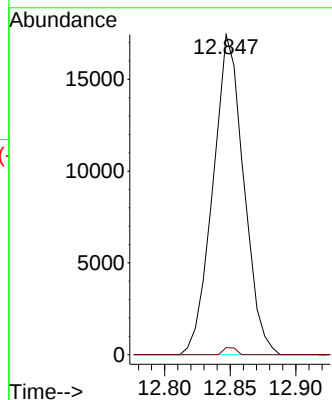
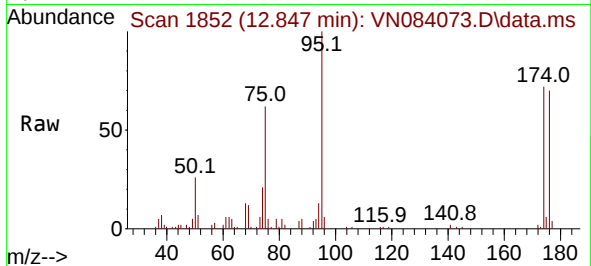




#72
1,2,3-Trichloropropane
Concen: 16.581 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#06

Tgt Ion: 75 Resp: 28442
Ion Ratio Lower Upper
75 100
77 0.9 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 39.229 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084073.D
Acq: 20 Sep 2024 16:21

Tgt Ion: 75 Resp: 28442
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

