

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084069.D
 Acq On : 20 Sep 2024 14:45
 Operator : JC\MD
 Sample : PB163512ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#02

Quant Time: Sep 23 01:03:33 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)

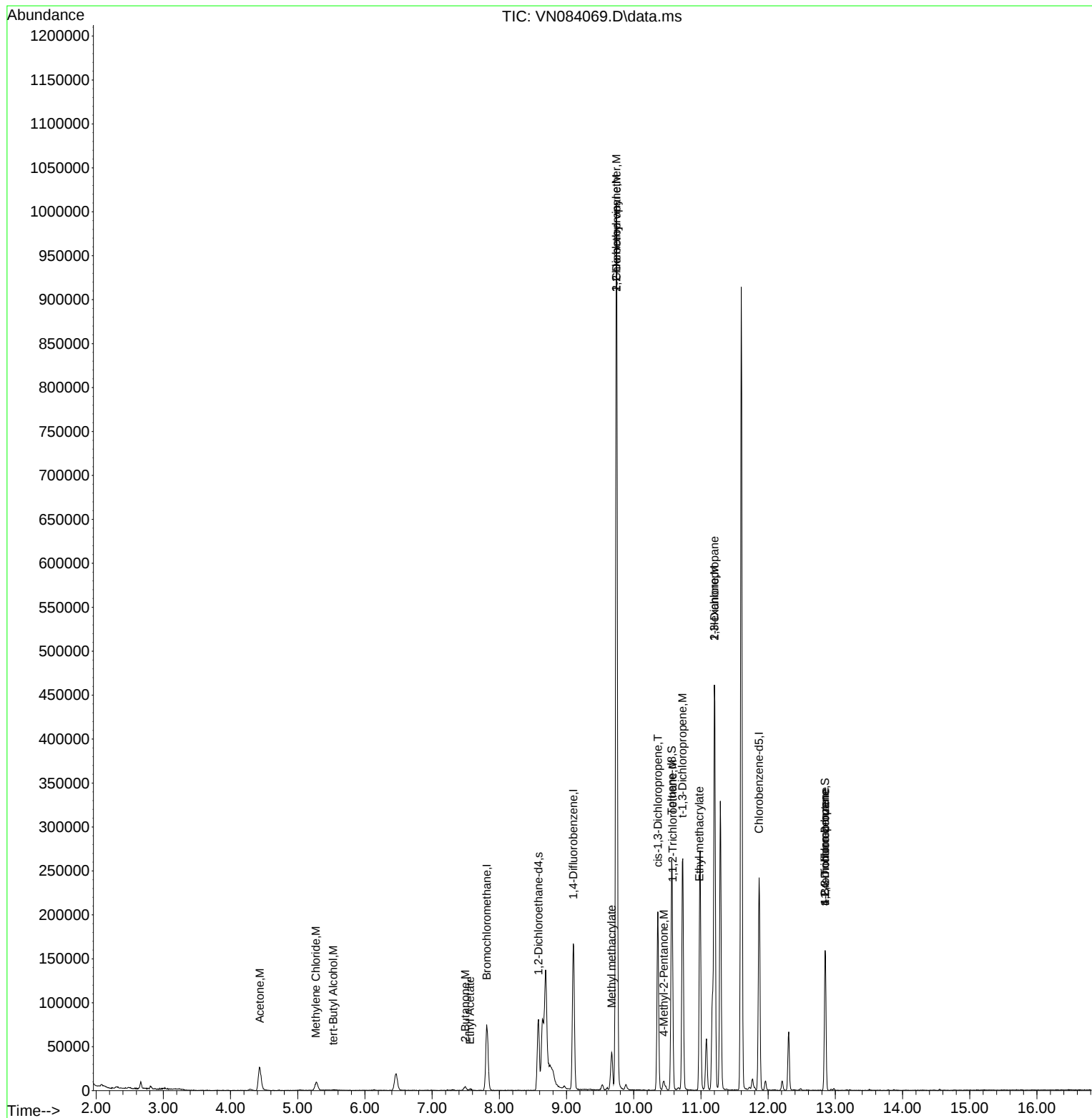
Internal Standards						
1) Bromochloromethane	7.812	128	24187	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	137502	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	128044	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	70071	31.694	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.633%			
60) 4-Bromofluorobenzene	12.847	95	55194	25.011	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 83.367%			
63) Toluene-d8	10.565	98	174181	29.378	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.933%			
Target Compounds						
					Qvalue	
15) Acetone	4.436	58	14720	60.483	ug/l #	68
18) Methylene Chloride	5.271	84	7211	4.385	ug/l #	87
23) tert-Butyl Alcohol	5.530	59	176	0.654	ug/l #	100
30) 2-Butanone	7.494	43	7445	7.242	ug/l #	70
39) 1,2-Dichloropropane	9.741	63	1107	0.703	ug/l #	43
43) Ethyl Acetate	7.565	43	3083	1.490	ug/l #	73
46) Methyl methacrylate	9.671	41	2998	1.731	ug/l #	22
48) t-1,3-Dichloropropene	10.724	75	582	0.226	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	33732	12.592	ug/l #	70
50) 1,1,2-Trichloroethane	10.577	97	5466	3.730	ug/l #	1
51) Ethyl methacrylate	10.977	69	1187	0.474	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	4563	1.724	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.741	63	1107	1.110	ug/l #	43
58) 4-Methyl-2-Pentanone	10.447	43	7924	3.903	ug/l #	79
59) 2-Hexanone	11.200	43	62704	40.873	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	30212	16.042	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	30212	37.953	ug/l #	12

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

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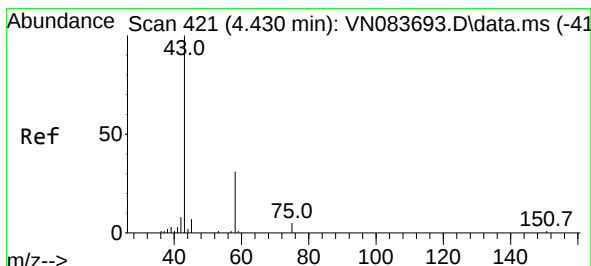
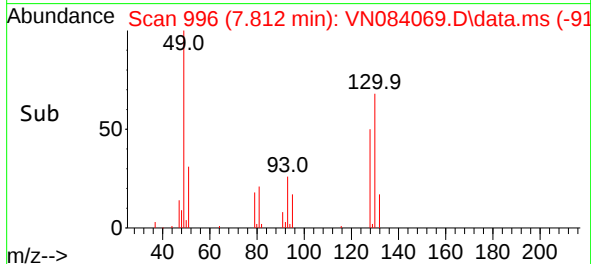
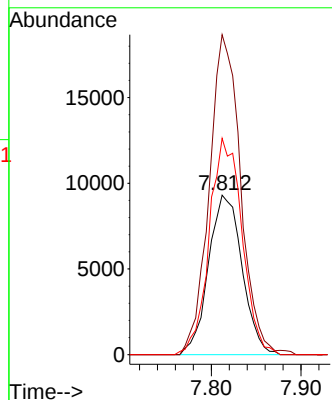
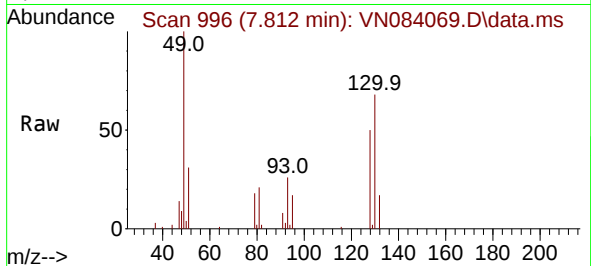




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

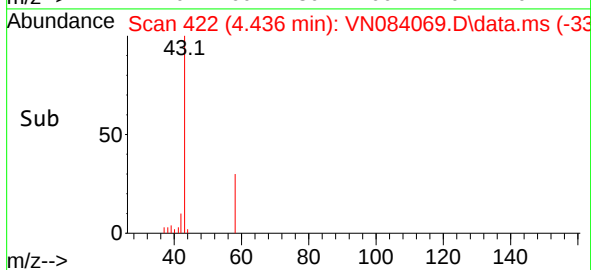
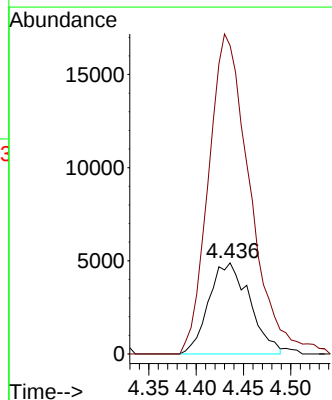
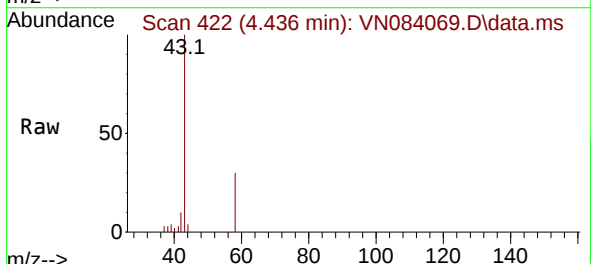
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

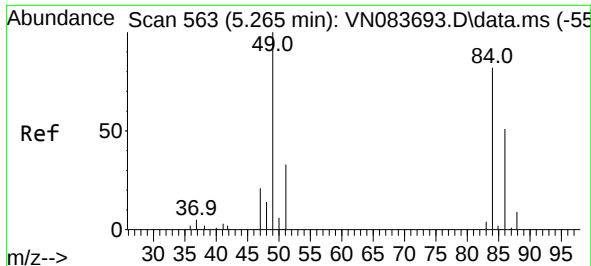
Tgt Ion:128 Resp: 24187
Ion Ratio Lower Upper
128 100
49 186.9 0.0 403.7
130 132.1 0.0 323.3



#15
Acetone
Concen: 60.483 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 58 Resp: 14720
Ion Ratio Lower Upper
58 100
43 339.0 223.1 334.7#

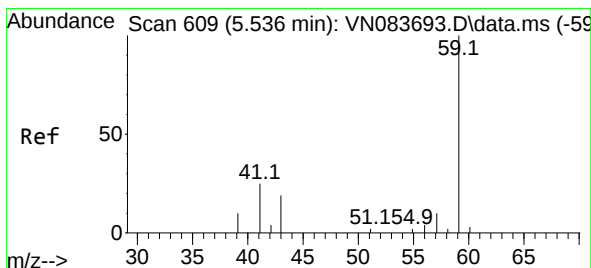
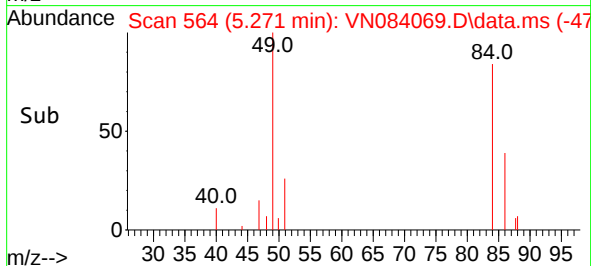
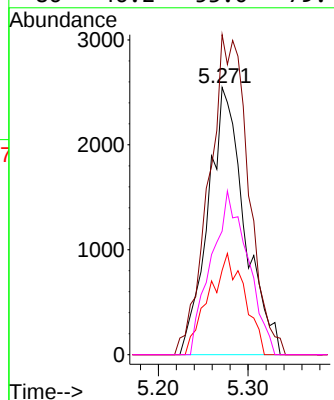
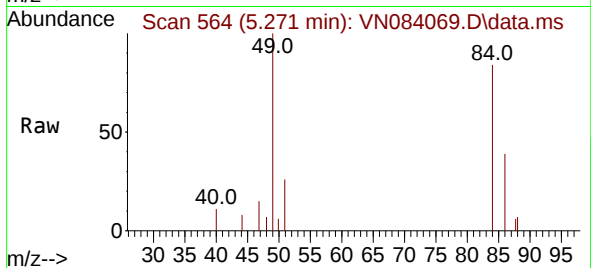




#18
Methylene Chloride
Concen: 4.385 ug/l
RT: 5.271 min Scan# 50
Delta R.T. 0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

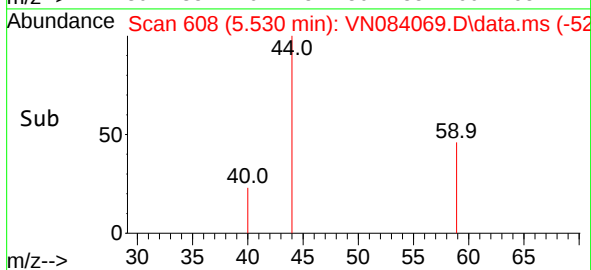
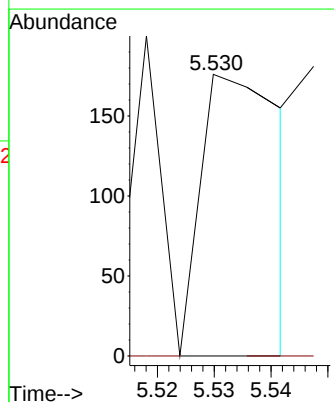
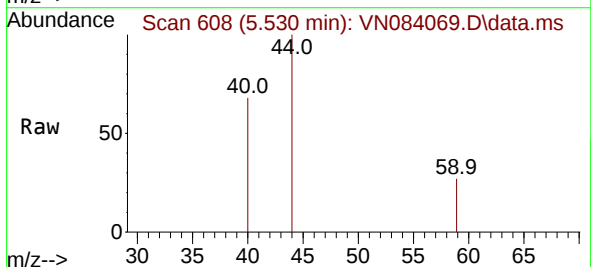
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

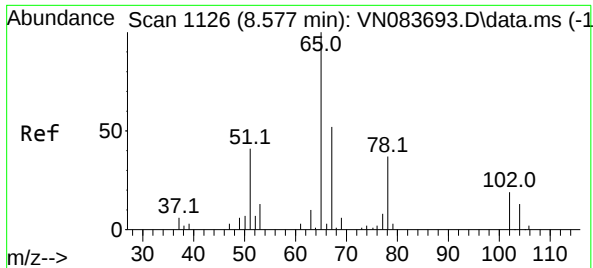
Tgt Ion: 84	Resp:	7211	
Ion	Ratio	Lower	Upper
84	100		
49	113.6	86.0	129.0
51	31.6	30.0	45.0
86	46.2	53.0	79.4#



#23
tert-Butyl Alcohol
Concen: 0.654 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 59	Resp:	176	
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

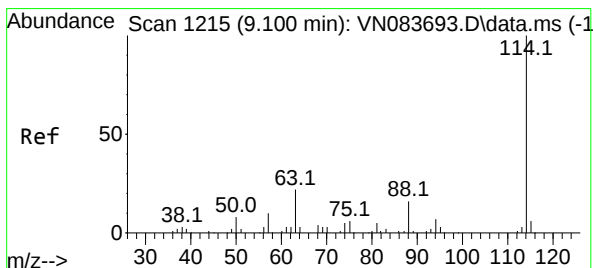
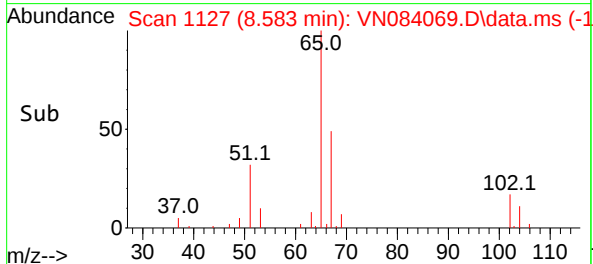
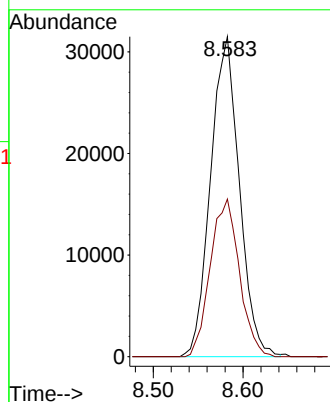
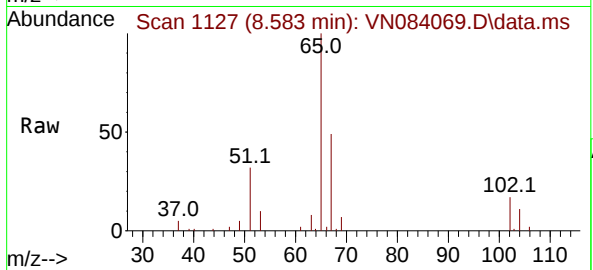




#27
1,2-Dichloroethane-d4
Concen: 31.694 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

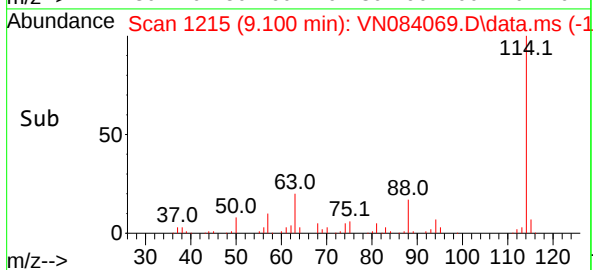
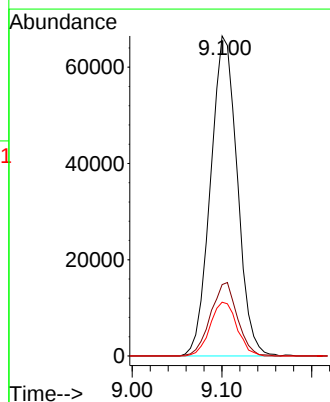
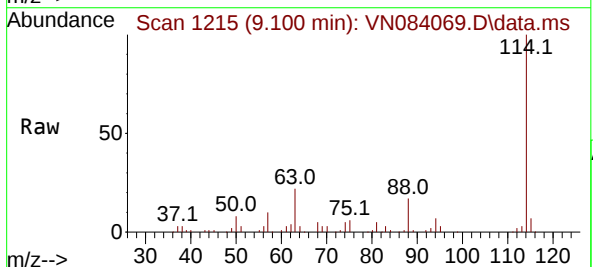
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

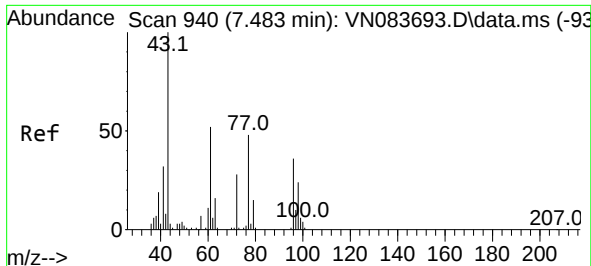
Tgt Ion: 65 Resp: 70071
Ion Ratio Lower Upper
65 100
67 49.9 43.2 64.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 114 Resp: 137502
Ion Ratio Lower Upper
114 100
63 22.9 15.9 23.9
88 16.9 12.7 19.1

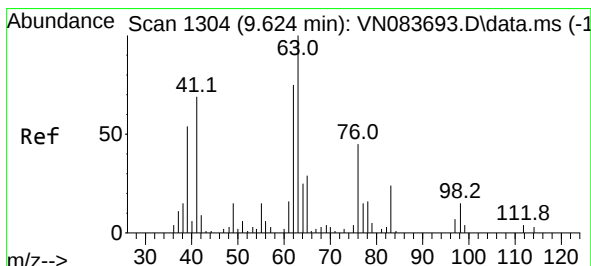
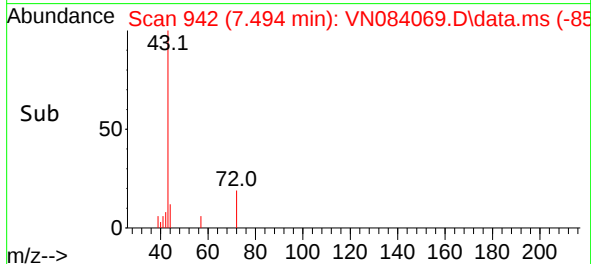
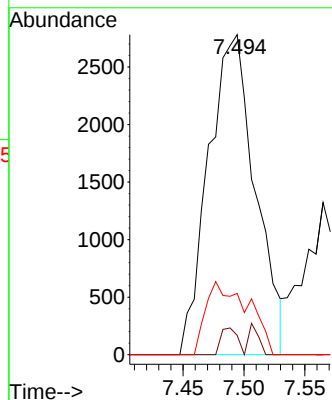
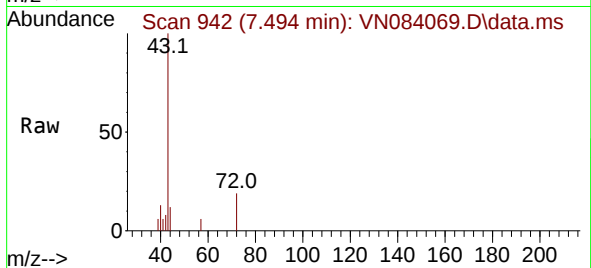




#30
2-Butanone
Concen: 7.242 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

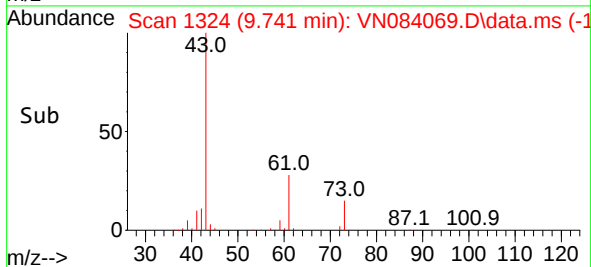
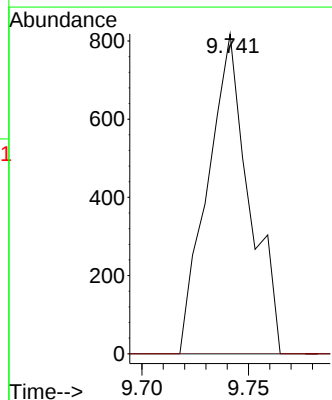
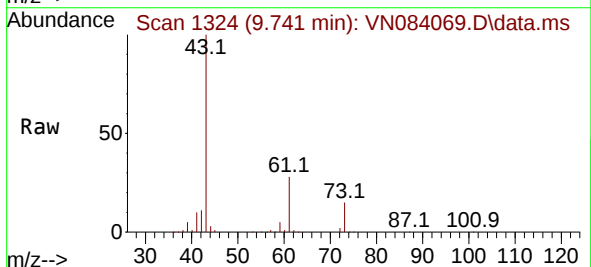
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

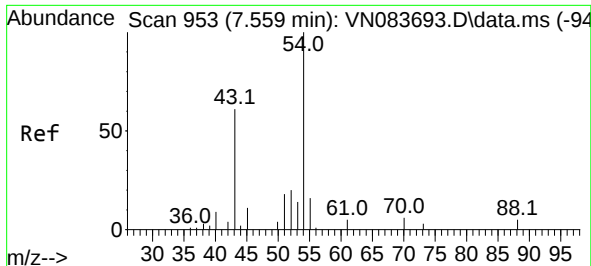
Tgt Ion: 43 Resp: 7445
Ion Ratio Lower Upper
43 100
57 2.9 6.7 10.1#
72 11.4 24.0 36.0#



#39
1,2-Dichloropropane
Concen: 0.703 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 63 Resp: 1107
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#

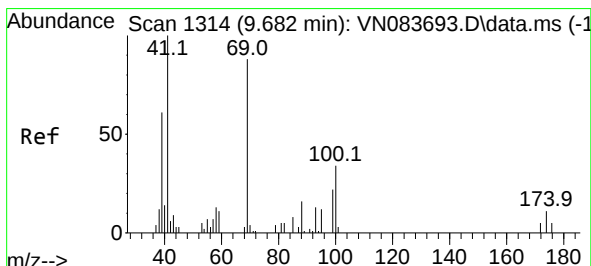
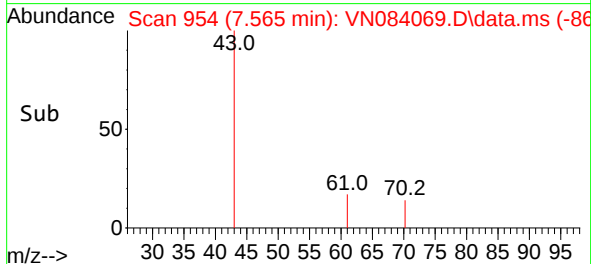
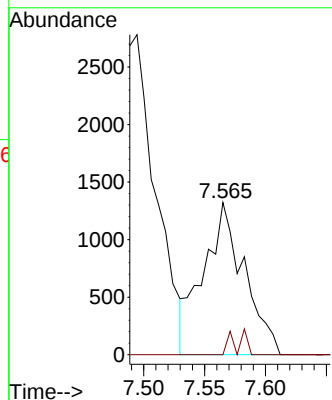
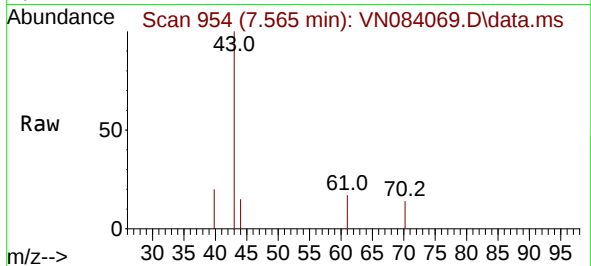




#43
Ethyl Acetate
Concen: 1.490 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

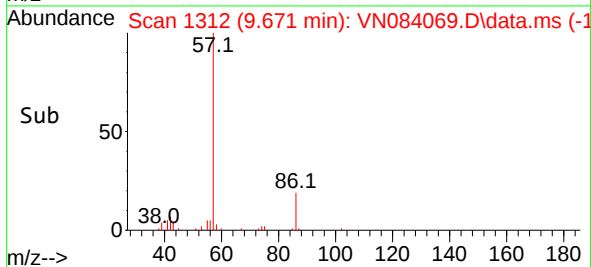
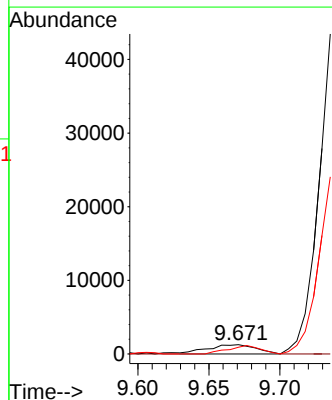
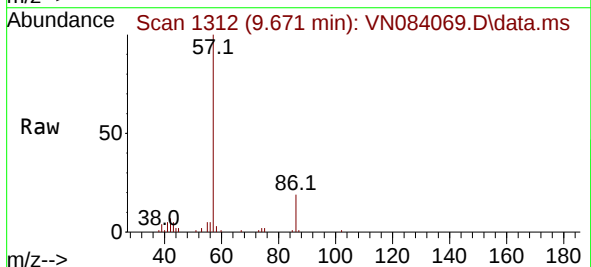
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

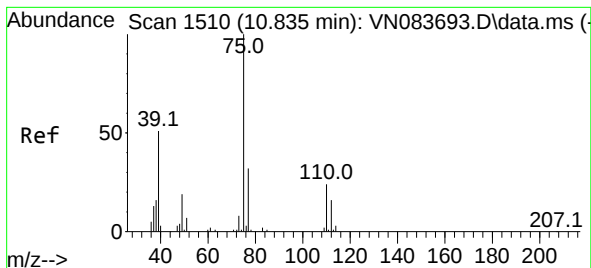
Tgt Ion: 43 Resp: 3083
Ion Ratio Lower Upper
43 100
45 2.3 10.6 15.8#



#46
Methyl methacrylate
Concen: 1.731 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 41 Resp: 2998
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 73.6 25.8 77.3





#48

t-1,3-Dichloropropene

Concen: 0.226 ug/l

RT: 10.724 min Scan# 1491

Delta R.T. -0.112 min

Lab File: VN084069.D

Acq: 20 Sep 2024 14:45

Instrument :

MSVOA_N

ClientSampleId :

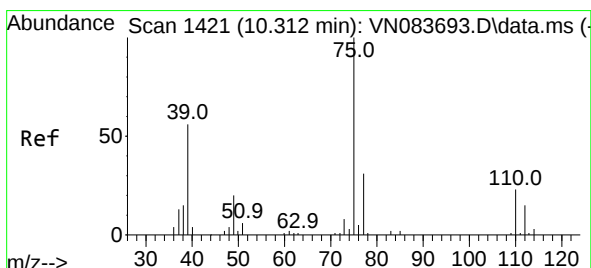
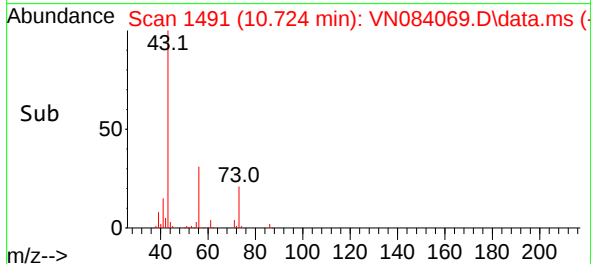
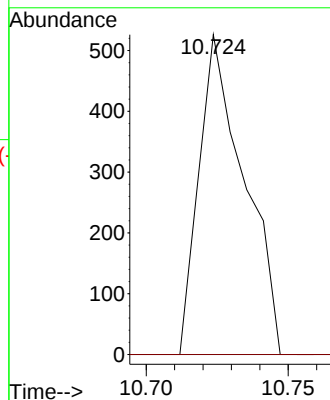
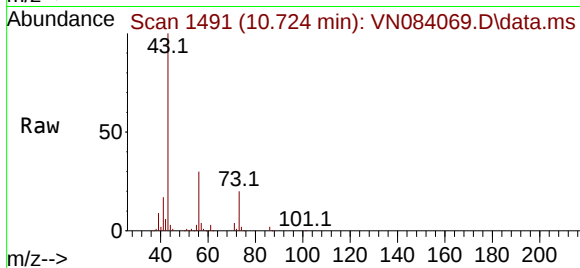
PB163512ZHE#02

Tgt Ion: 75 Resp: 582

Ion Ratio Lower Upper

75 100

77 0.0 23.8 35.6#



#49

cis-1,3-Dichloropropene

Concen: 12.592 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084069.D

Acq: 20 Sep 2024 14:45

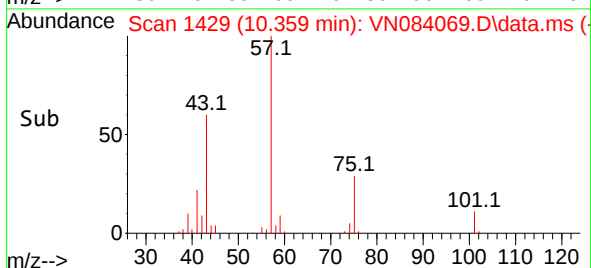
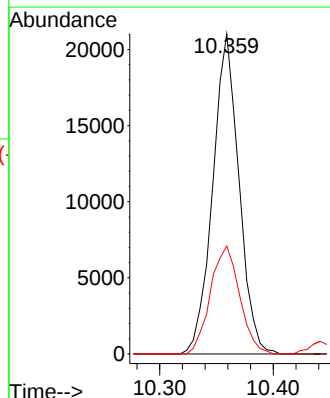
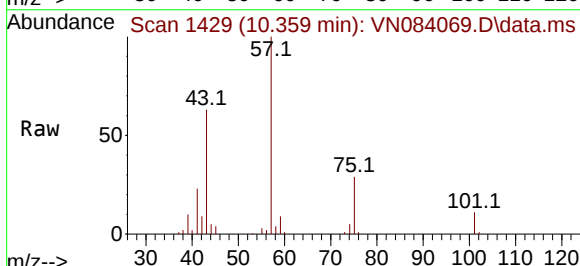
Tgt Ion: 75 Resp: 33732

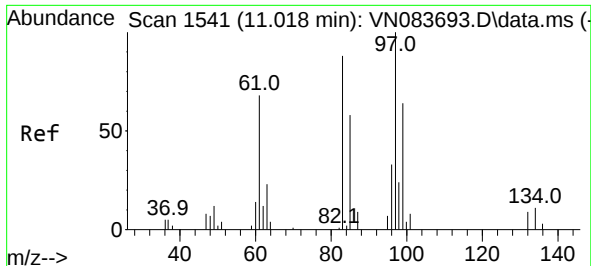
Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

39 33.8 31.0 46.6

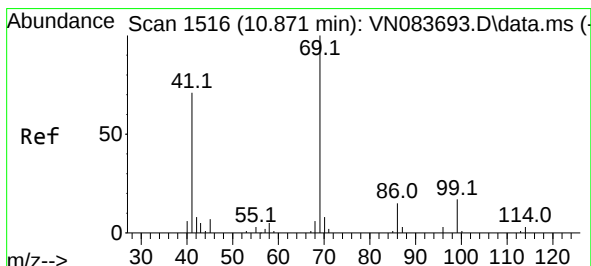
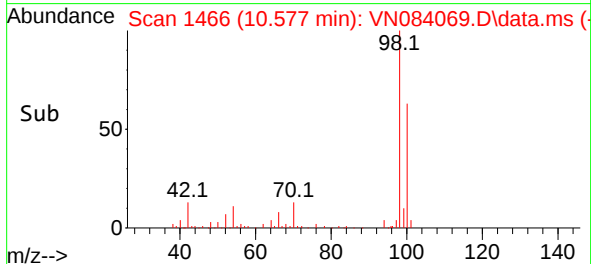
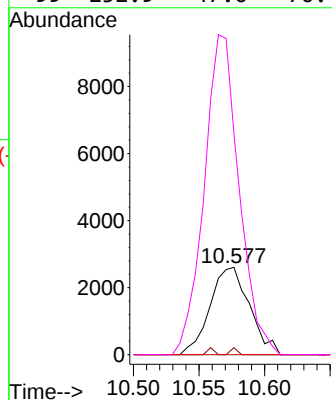
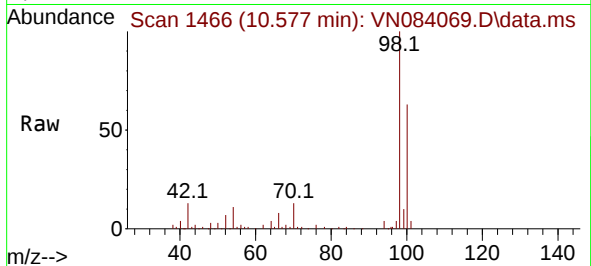




#50
1,1,2-Trichloroethane
Concen: 3.730 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

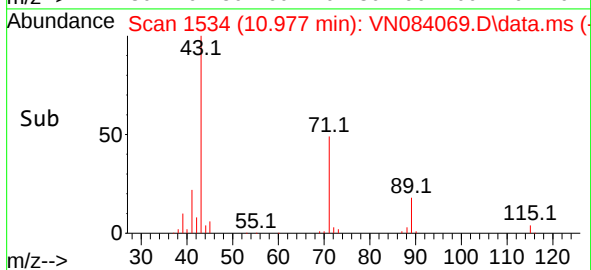
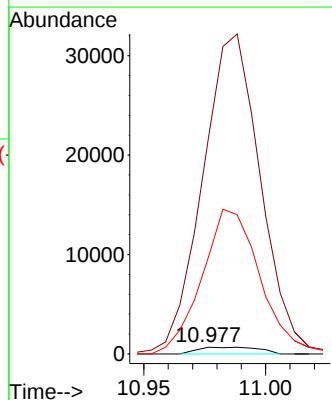
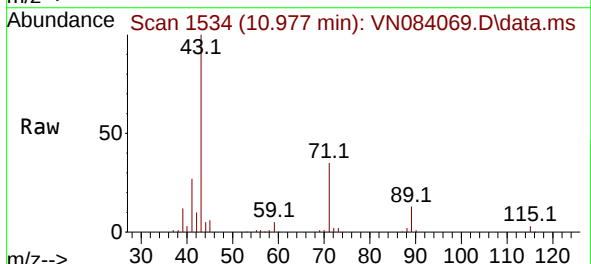
Instrument :
MSVOA_N
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PB163512ZHE#02

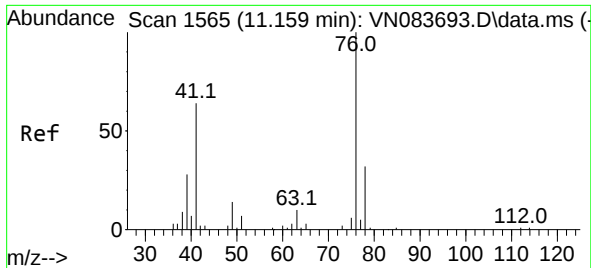
Tgt Ion: 97	Resp: 5466
Ion Ratio	Lower Upper
97 100	
83 8.0	68.1 102.1#
85 0.0	41.8 62.6#
99 252.9	47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.474 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 69	Resp: 1187
Ion Ratio	Lower Upper
69 100	
41 2480.1	25.5 76.5#
39 1087.2	16.0 47.9#

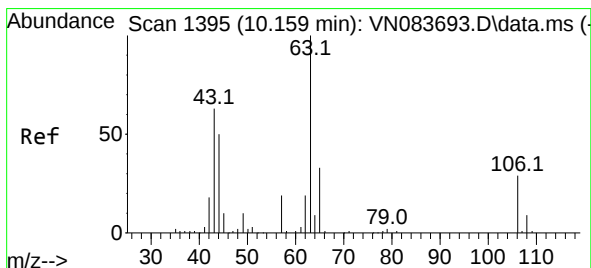
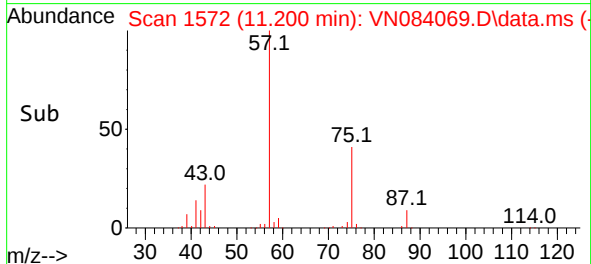
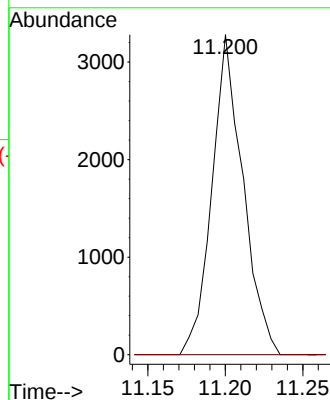
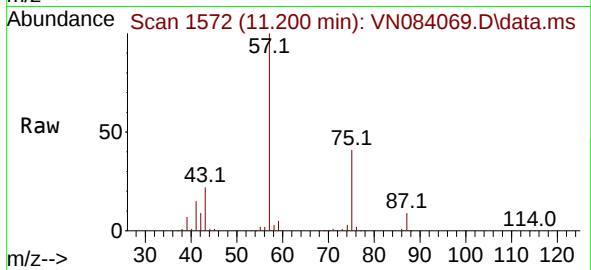




#52
1,3-Dichloropropane
Concen: 1.724 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.041 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

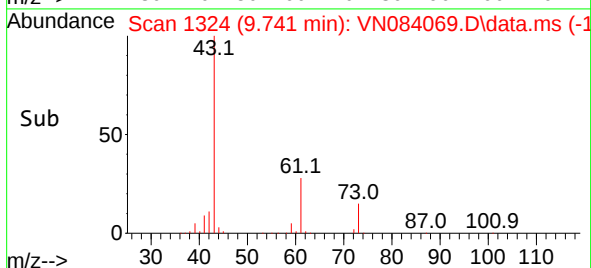
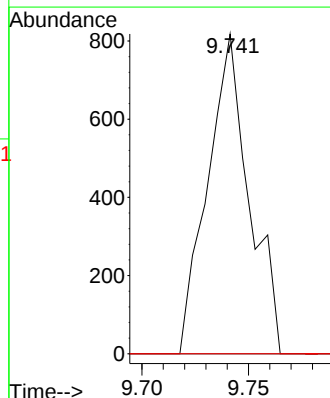
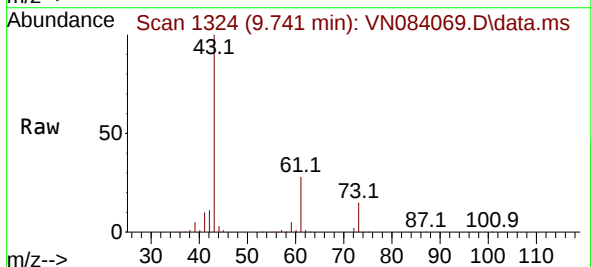
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

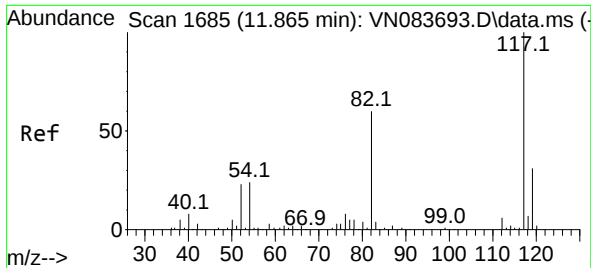
Tgt Ion: 76 Resp: 4563
Ion Ratio Lower Upper
76 100
78 0.0 0.0 65.8



#55
2-Chloroethyl vinyl ether
Concen: 1.110 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. -0.418 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 63 Resp: 1107
Ion Ratio Lower Upper
63 100
65 0.0 26.2 39.2#
106 0.0 23.8 35.8#

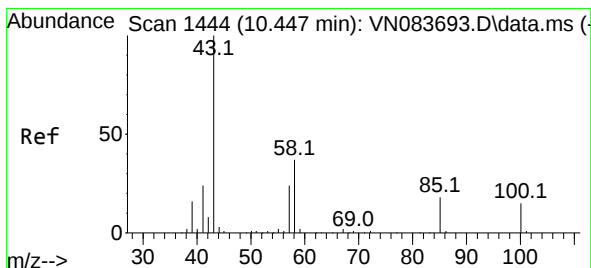
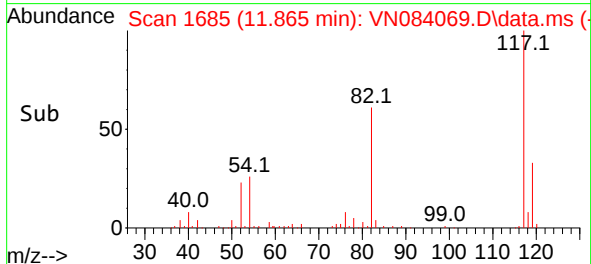
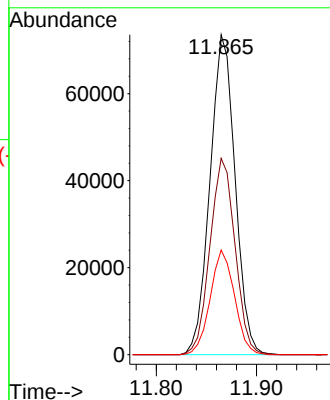
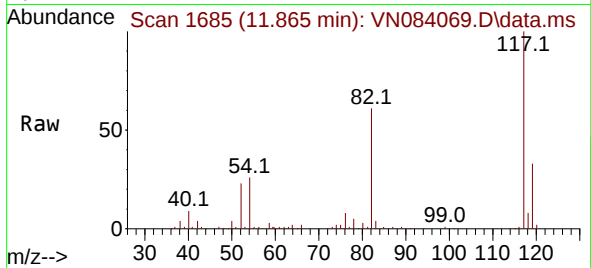




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

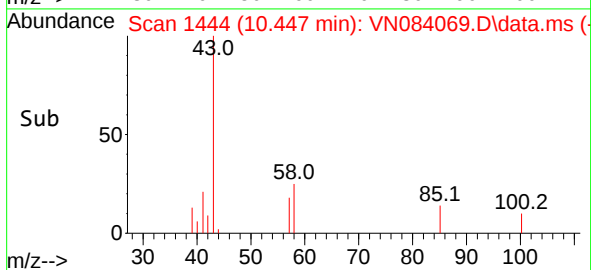
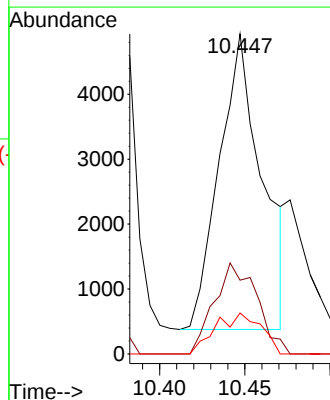
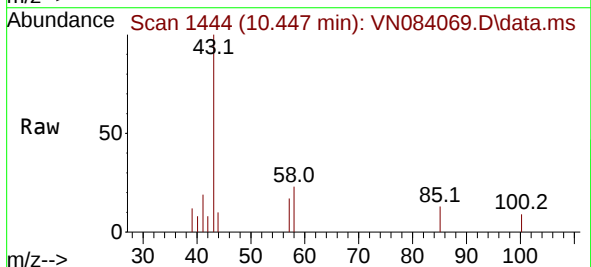
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

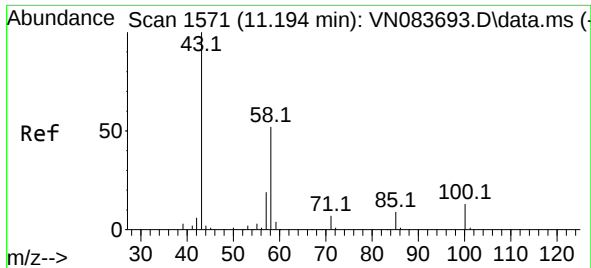
Tgt Ion:117 Resp: 128044
Ion Ratio Lower Upper
117 100
82 61.3 46.6 69.8
119 31.7 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 3.903 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 43 Resp: 7924
Ion Ratio Lower Upper
43 100
58 30.8 36.5 54.7#
85 14.8 19.5 29.3#

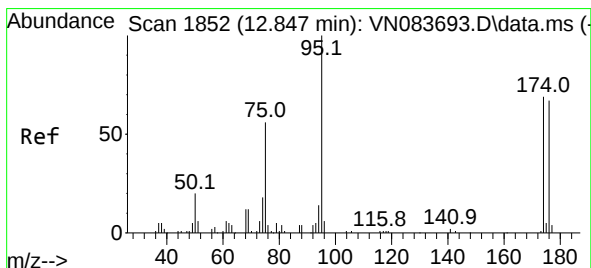
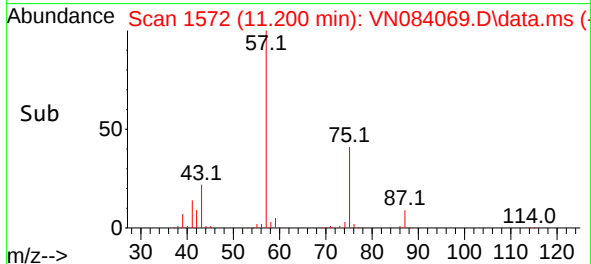
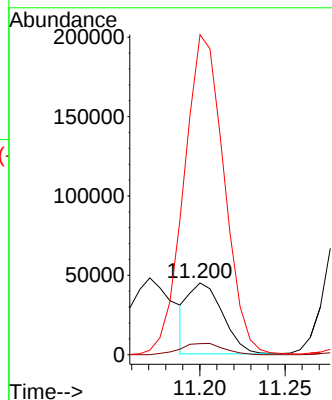
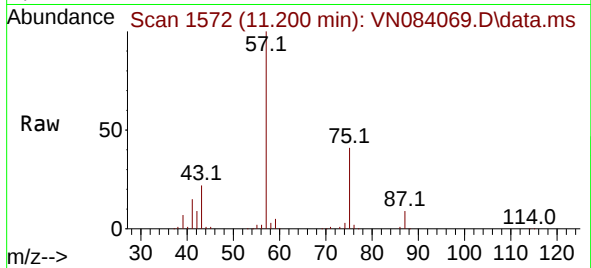




#59
2-Hexanone
Concen: 40.873 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

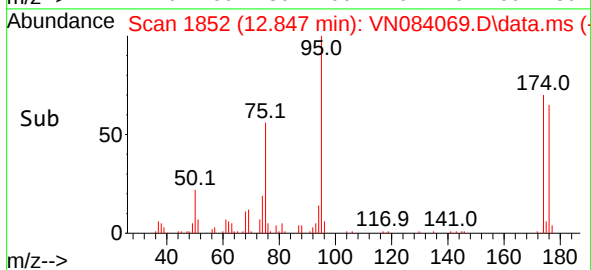
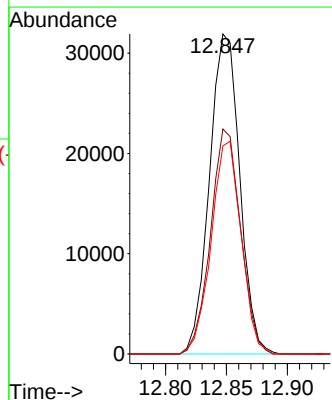
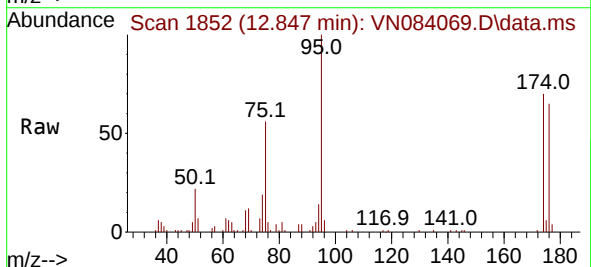
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

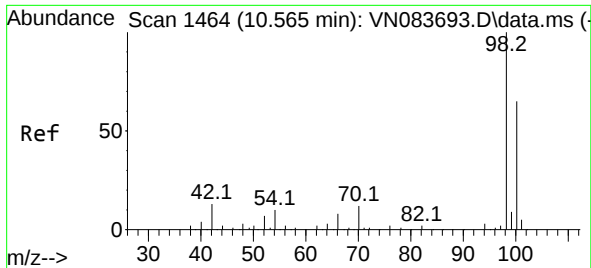
Tgt Ion: 43 Resp: 62704
Ion Ratio Lower Upper
43 100
58 19.8 50.4 75.6#
57 528.4 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 25.011 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 95 Resp: 55194
Ion Ratio Lower Upper
95 100
174 69.7 60.5 90.7
176 65.7 57.8 86.6

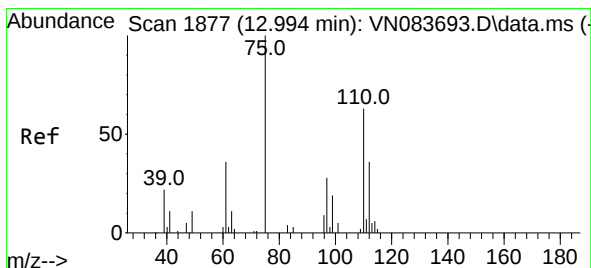
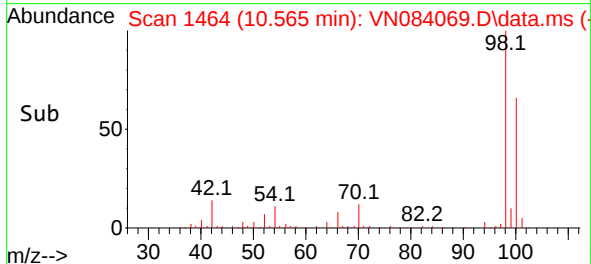
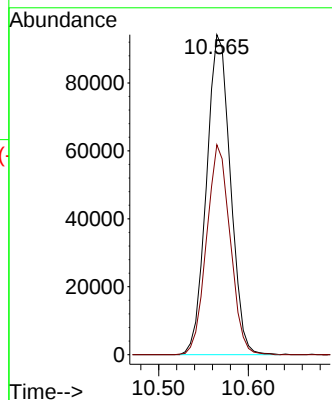
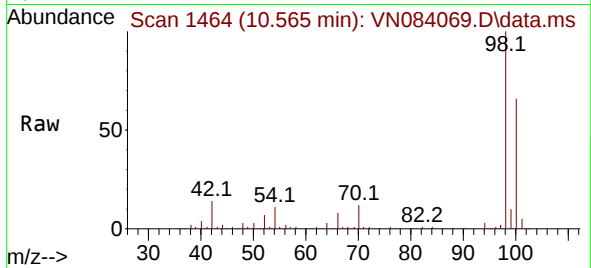




#63
Toluene-d8
Concen: 29.378 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

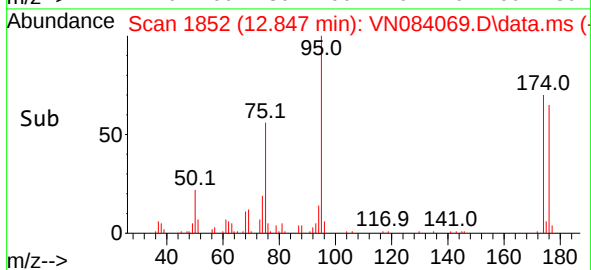
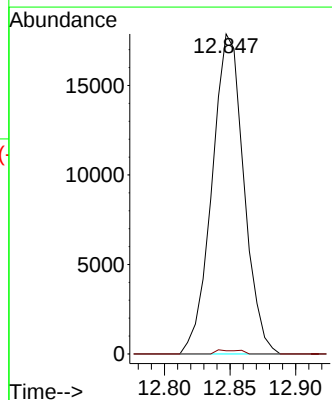
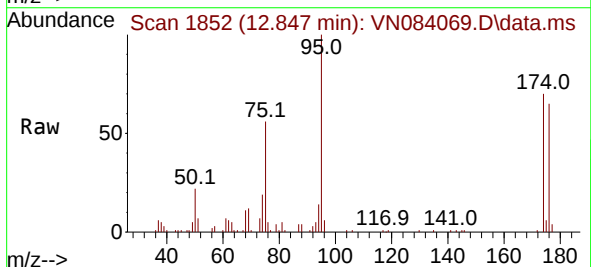
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#02

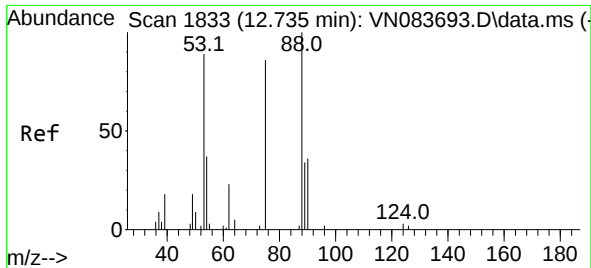
Tgt Ion: 98 Resp: 174181
Ion Ratio Lower Upper
98 100
100 64.9 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.042 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084069.D
Acq: 20 Sep 2024 14:45

Tgt Ion: 75 Resp: 30212
Ion Ratio Lower Upper
75 100
77 0.5 0.0 367.6





#77

t-1,4-Dichloro-2-butene

Concen: 37.953 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN084069.D

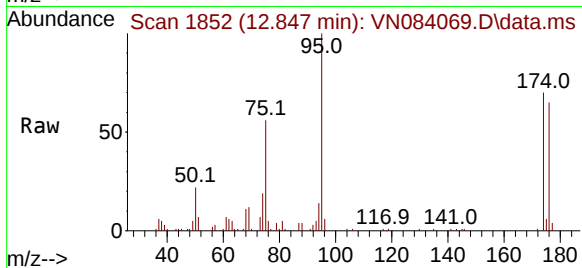
Acq: 20 Sep 2024 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#02



Tgt Ion: 75 Resp: 30212

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#

