

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084070.D
 Acq On : 20 Sep 2024 15:09
 Operator : JC\MD
 Sample : PB163512ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 23 01:03:58 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)

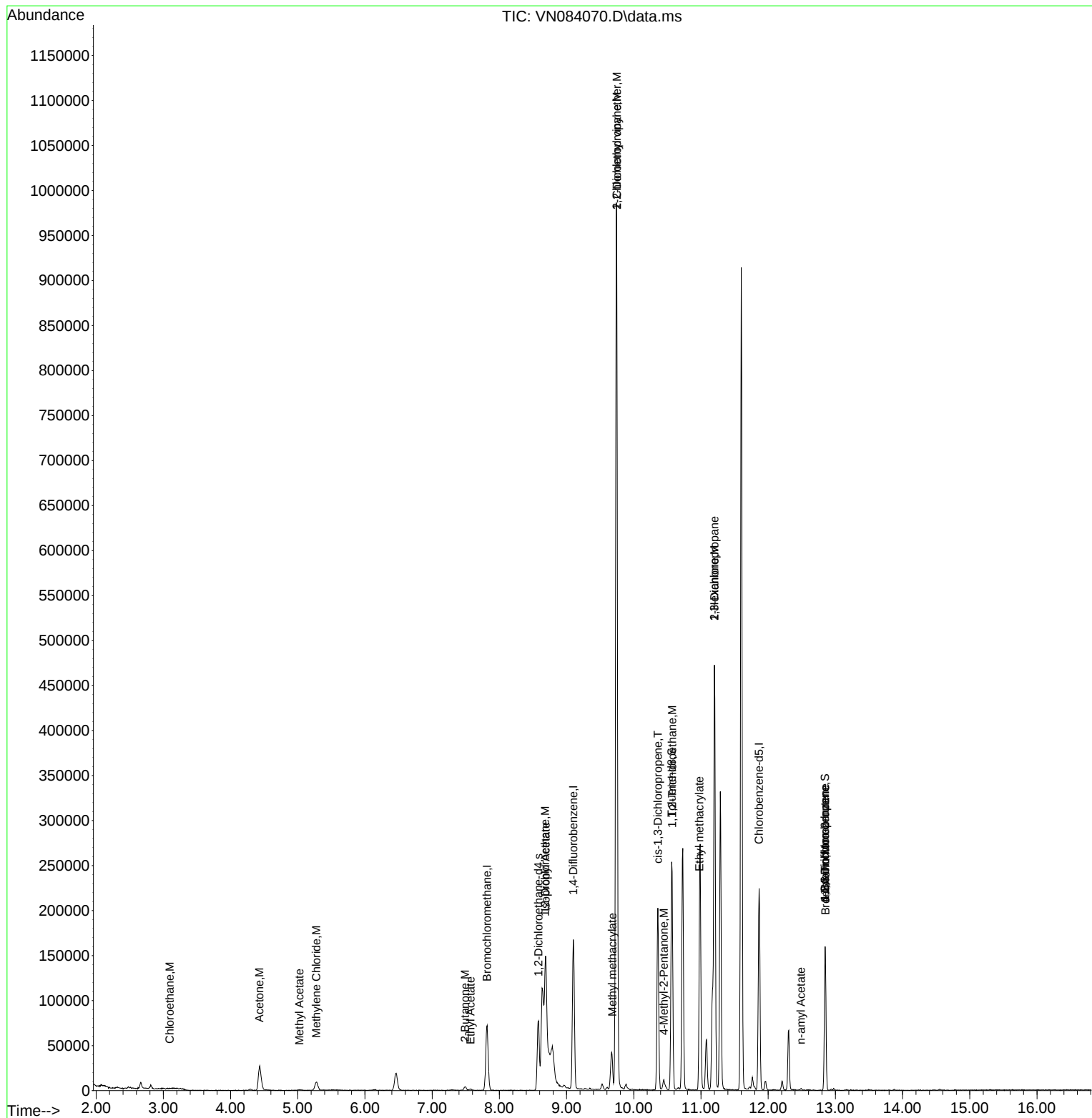
Internal Standards						
1) Bromochloromethane	7.818	128	25001	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	134631	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	123638	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	68191	29.839	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.467%
60) 4-Bromofluorobenzene	12.847	95	53736	25.218	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.067%
63) Toluene-d8	10.565	98	168770	29.480	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.267%
Target Compounds						
					Qvalue	
6) Chloroethane	3.095	64	726	0.606	ug/l #	41
12) Methyl Acetate	5.024	43	870	0.464	ug/l #	40
15) Acetone	4.430	58	14666	58.299	ug/l #	68
18) Methylene Chloride	5.277	84	7307	4.298	ug/l #	85
30) 2-Butanone	7.488	43	6821	6.776	ug/l #	63
36) 1,2-Dichloroethane	8.683	62	941	0.391	ug/l #	72
39) 1,2-Dichloropropane	9.747	63	1109	0.719	ug/l #	43
43) Ethyl Acetate	7.571	43	2009	0.992	ug/l #	87
44) Isopropyl Acetate	8.688	43	151513	43.236	ug/l #	70
46) Methyl methacrylate	9.682	41	1044	0.615	ug/l #	23
47) n-amyl Acetate	12.488	43	850	0.274	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	33371	12.723	ug/l #	72
50) 1,1,2-Trichloroethane	10.571	97	5185	3.614	ug/l #	1
51) Ethyl methacrylate	10.976	69	1236	0.504	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	4797	1.851	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.747	63	1109	1.135	ug/l #	43
56) Bromoform	12.853	173	496	0.454	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	11322	5.775	ug/l #	67
59) 2-Hexanone	11.200	43	63518	42.879	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	30639	16.849	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	30639	39.861	ug/l #	12

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

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Sample : PB163512ZHE#03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 23 01:03:58 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

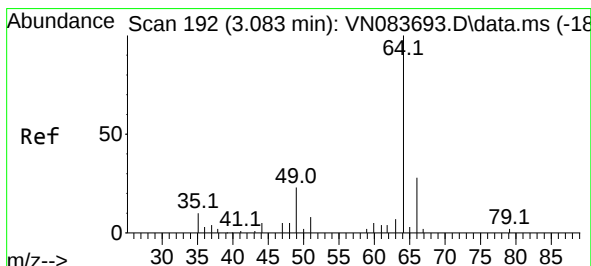
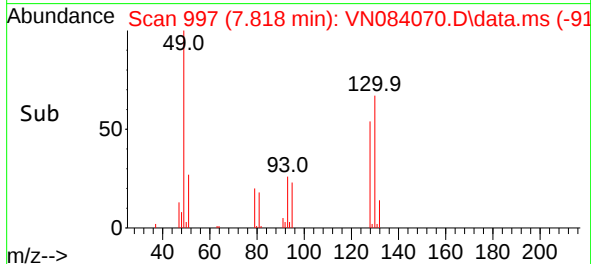
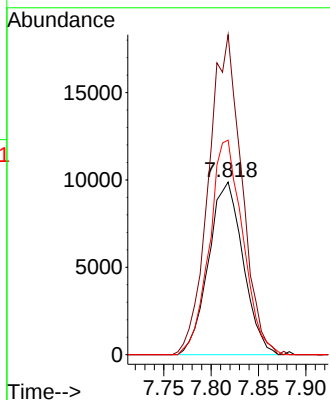
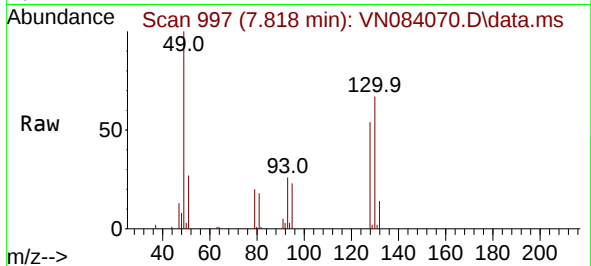




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

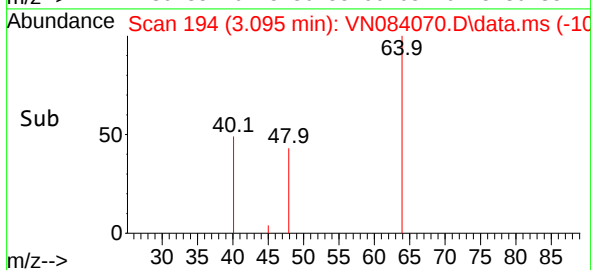
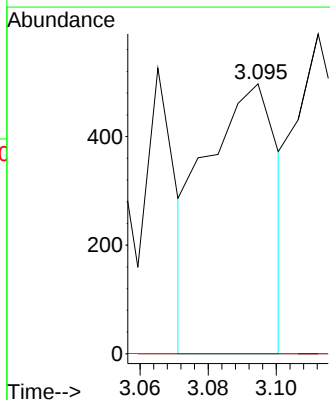
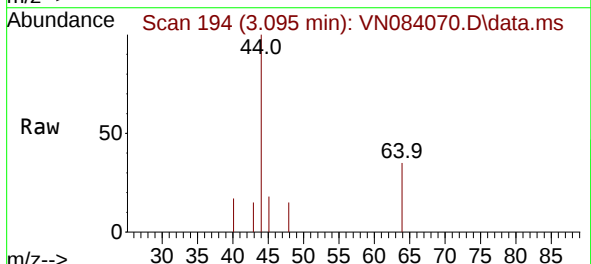
Instrument :
MSVOA_N
ClientSampleId :

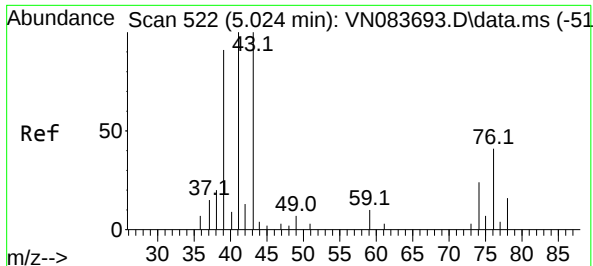
Tgt Ion:128 Resp: 25001
Ion Ratio Lower Upper
128 100
49 178.3 0.0 403.7
130 120.7 0.0 323.3



#6
Chloroethane
Concen: 0.606 ug/l
RT: 3.095 min Scan# 194
Delta R.T. 0.012 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Tgt Ion: 64 Resp: 726
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#

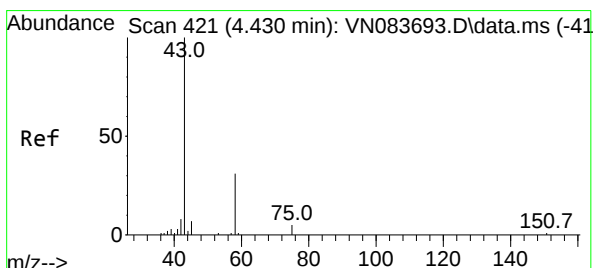
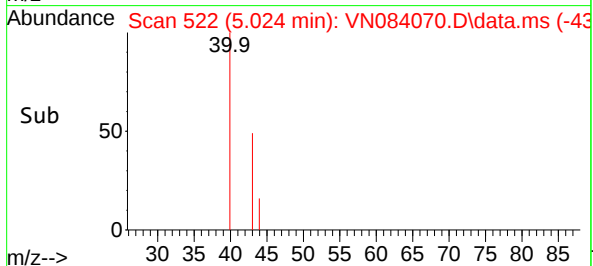
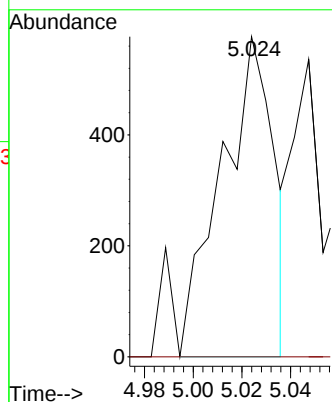
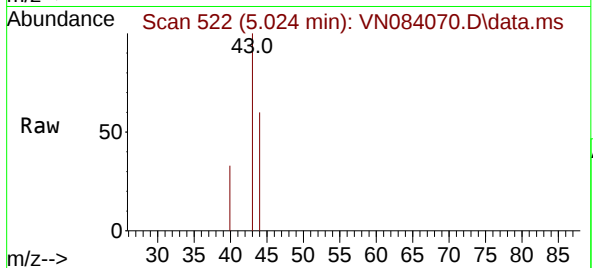




#12
Methyl Acetate
Concen: 0.464 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

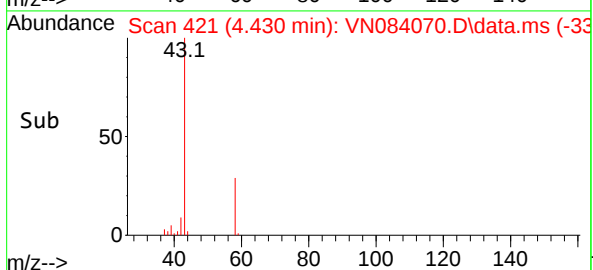
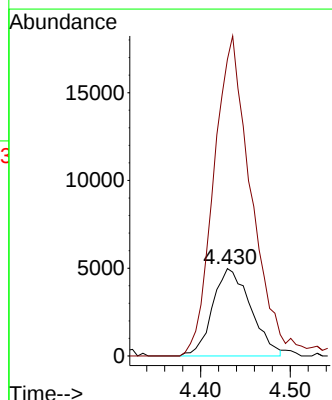
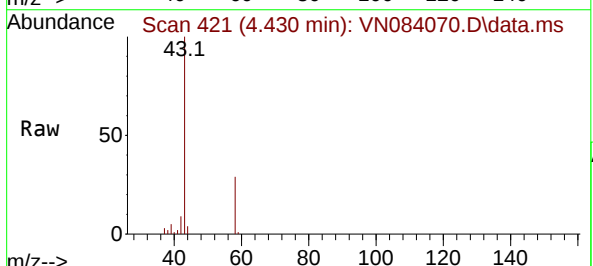
Instrument :
MSVOA_N
ClientSampleId :

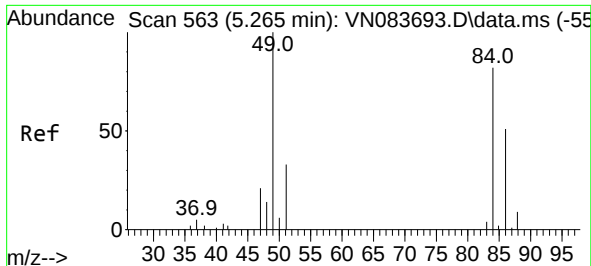
Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#



#15
Acetone
Concen: 58.299 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

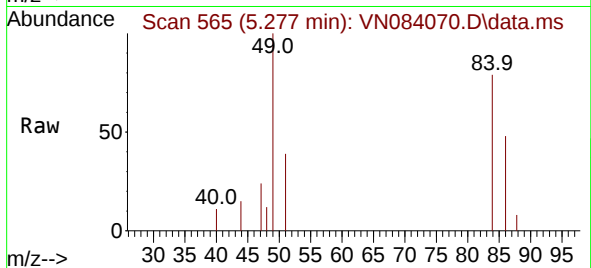
Tgt Ion: 58 Resp: 14666
Ion Ratio Lower Upper
58 100
43 339.1 223.1 334.7#



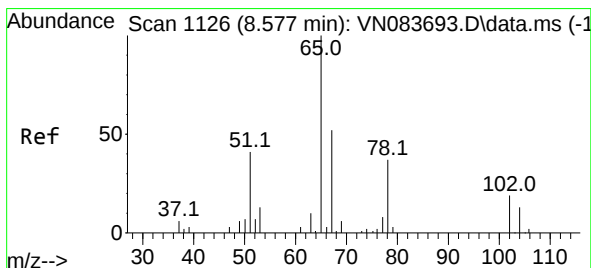
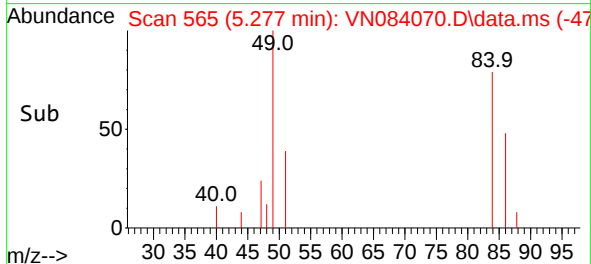
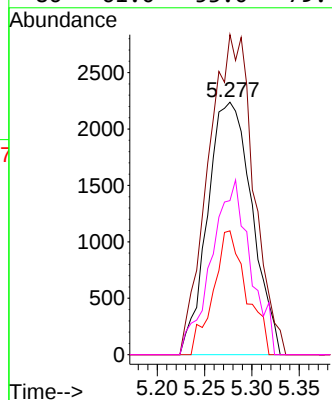


#18
Methylene Chloride
Concen: 4.298 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Instrument :
MSVOA_N
ClientSampleId :

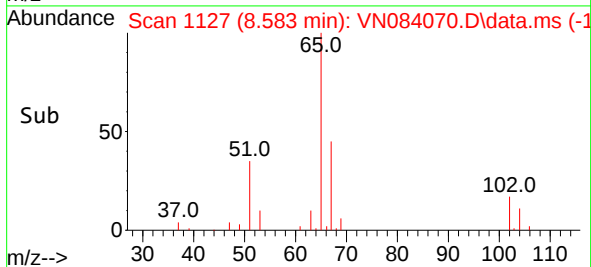
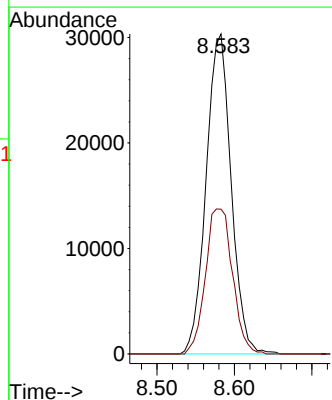
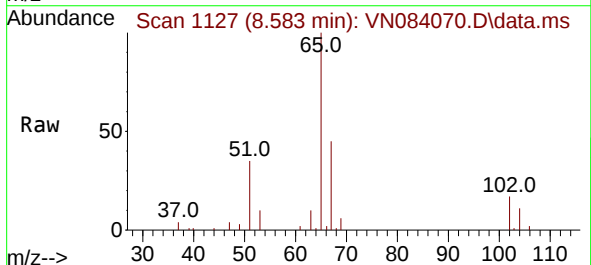


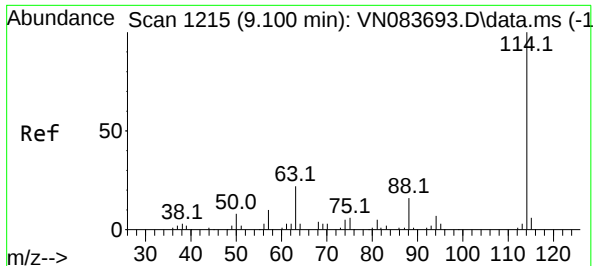
Tgt Ion: 84	Resp: 7307
Ion Ratio	Lower Upper
84 100	
49 126.7	86.0 129.0
51 49.1	30.0 45.0#
86 61.0	53.0 79.4



#27
1,2-Dichloroethane-d4
Concen: 29.839 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Tgt Ion: 65	Resp: 68191
Ion Ratio	Lower Upper
65 100	
67 48.9	43.2 64.8

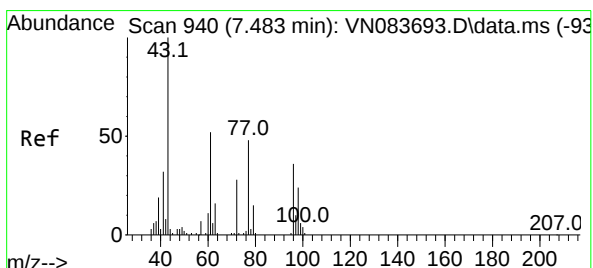
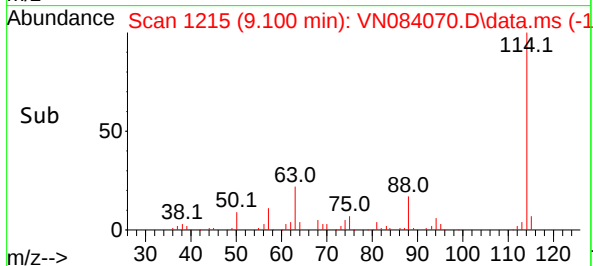
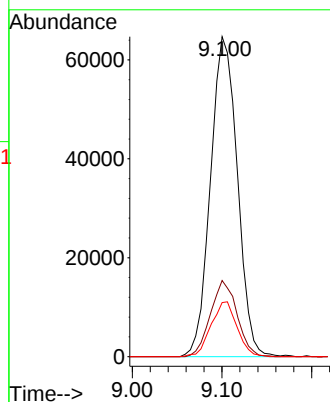
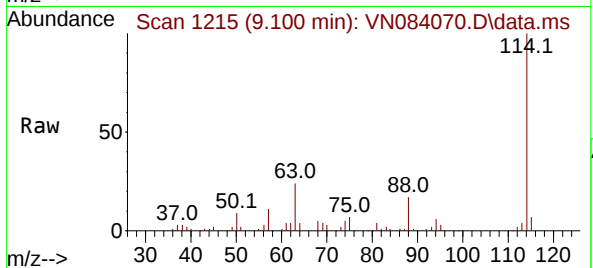




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

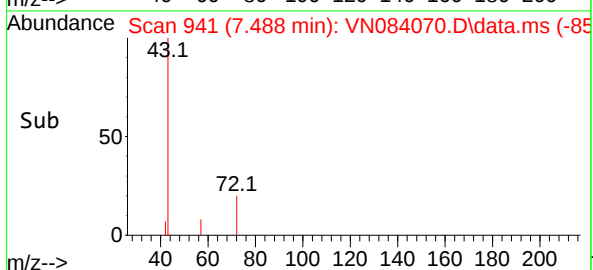
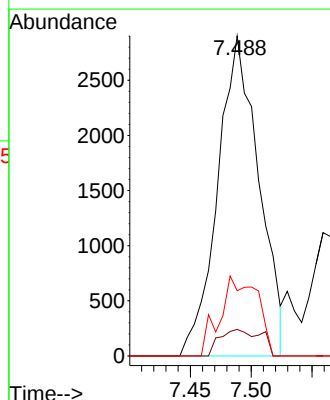
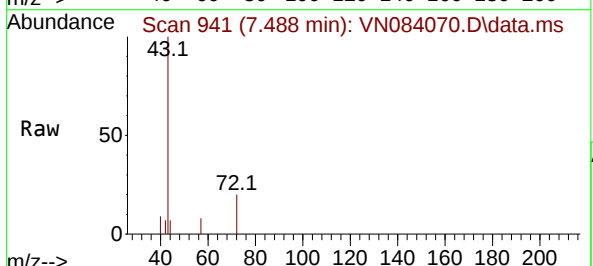
Instrument :
MSVOA_N
ClientSampleId :

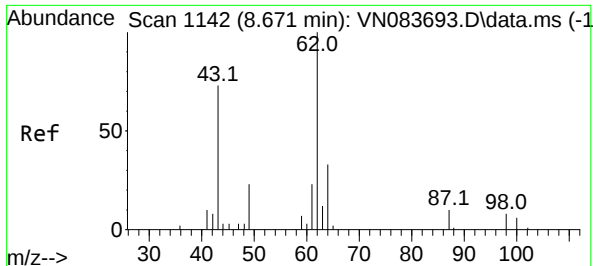
Tgt Ion:114 Resp: 134631
Ion Ratio Lower Upper
114 100
63 23.5 15.9 23.9
88 16.6 12.7 19.1



#30
2-Butanone
Concen: 6.776 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Tgt Ion: 43 Resp: 6821
Ion Ratio Lower Upper
43 100
57 6.2 6.7 10.1#
72 5.3 24.0 36.0#





#36

1,2-Dichloroethane

Concen: 0.391 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN084070.D

Acq: 20 Sep 2024 15:09

Instrument :

MSVOA_N

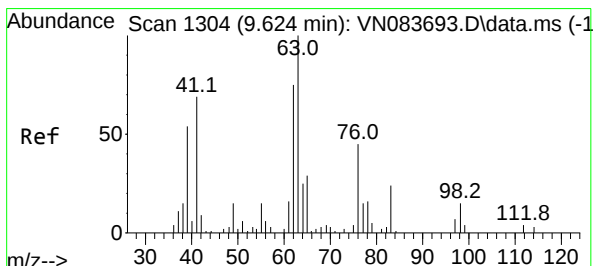
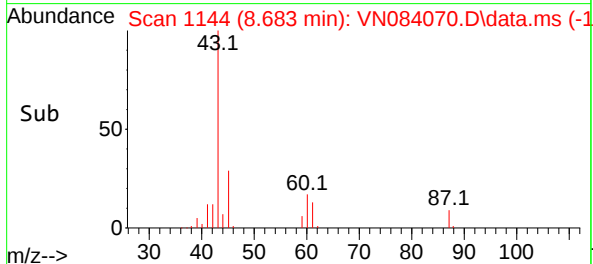
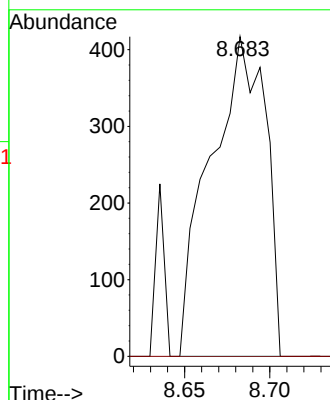
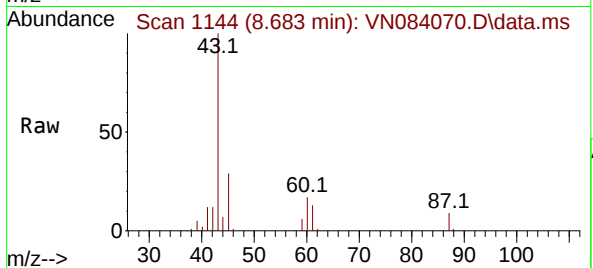
ClientSampleId :

Tgt Ion: 62 Resp: 941

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#39

1,2-Dichloropropane

Concen: 0.719 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.124 min

Lab File: VN084070.D

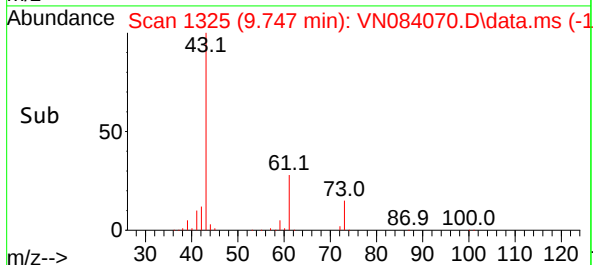
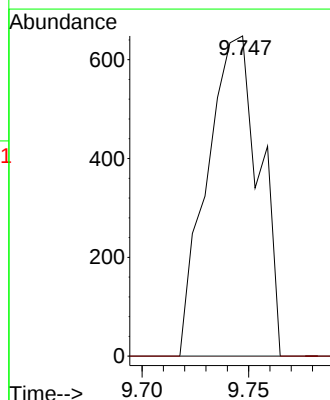
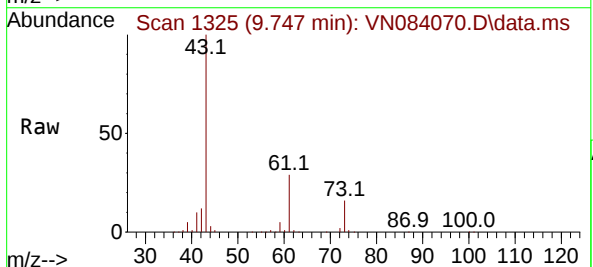
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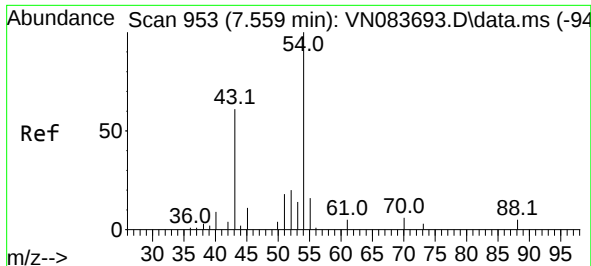
Tgt Ion: 63 Resp: 1109

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

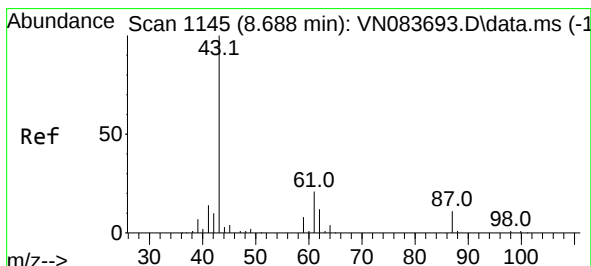
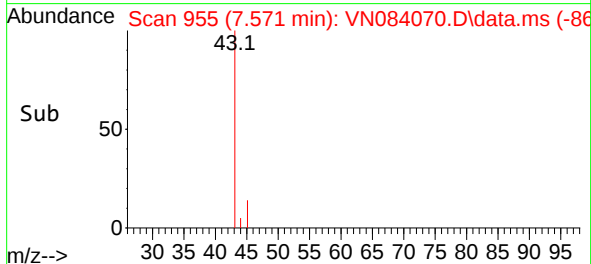
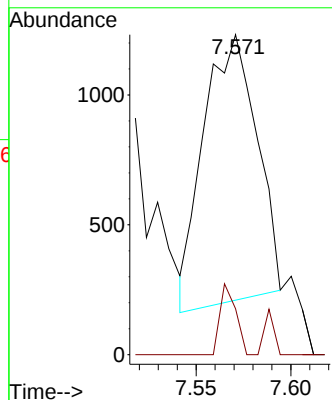
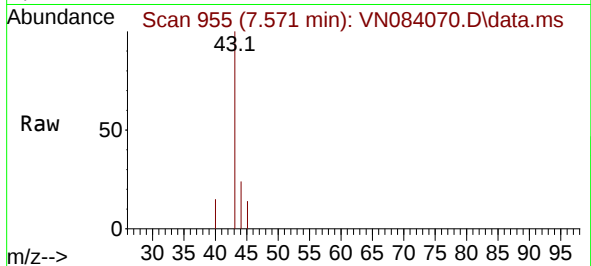




#43
Ethyl Acetate
Concen: 0.992 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

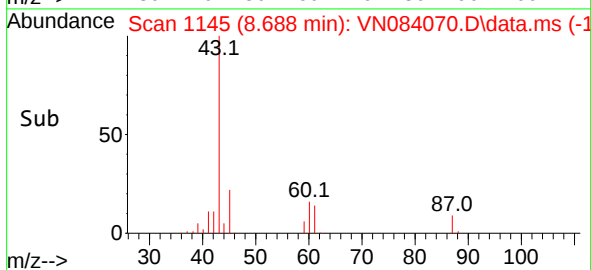
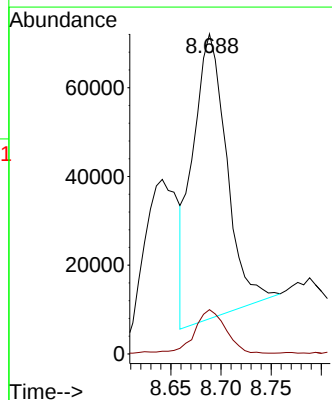
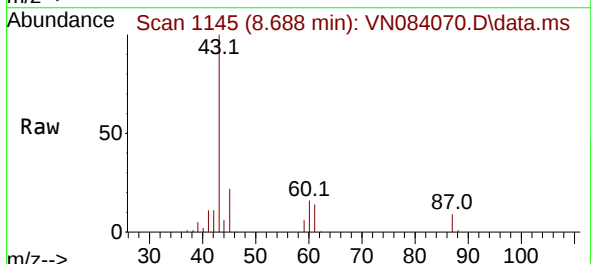
Instrument :
MSVOA_N
ClientSampleId :

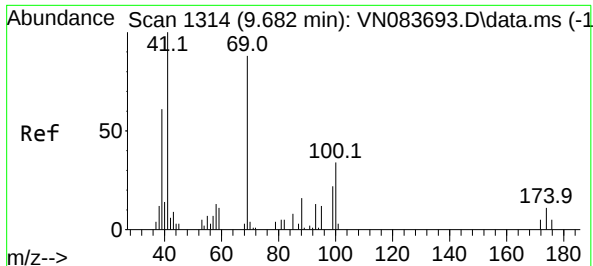
Tgt Ion: 43 Resp: 2009
Ion Ratio Lower Upper
43 100
45 7.9 10.6 15.8#



#44
Isopropyl Acetate
Concen: 43.236 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

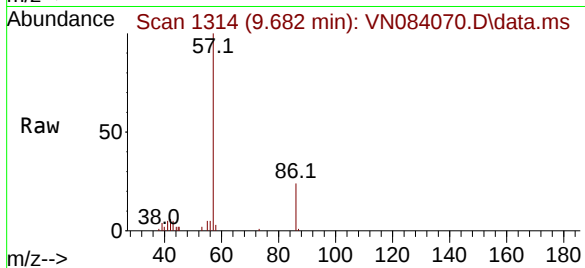
Tgt Ion: 43 Resp: 151513
Ion Ratio Lower Upper
43 100
61 14.8 25.0 37.4#



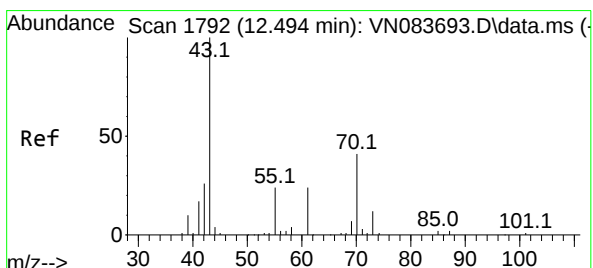
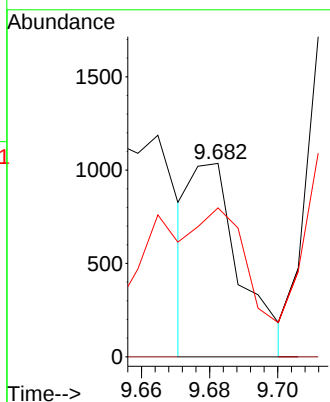
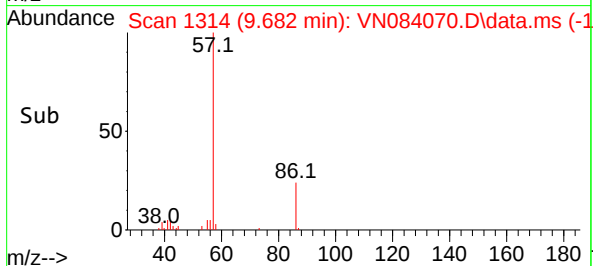


#46
Methyl methacrylate
Concen: 0.615 ug/l
RT: 9.682 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

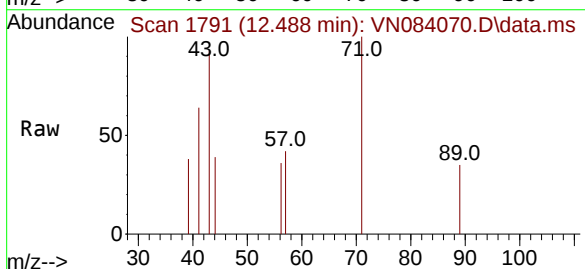
Instrument :
MSVOA_N
ClientSampleId :



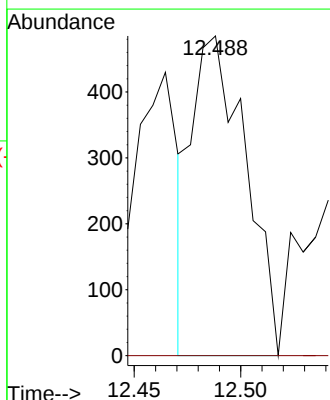
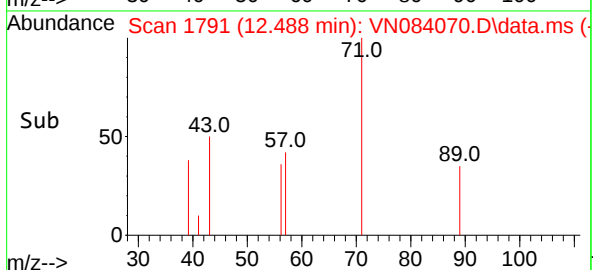
Tgt Ion: 41 Resp: 1044
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 72.1 25.8 77.3

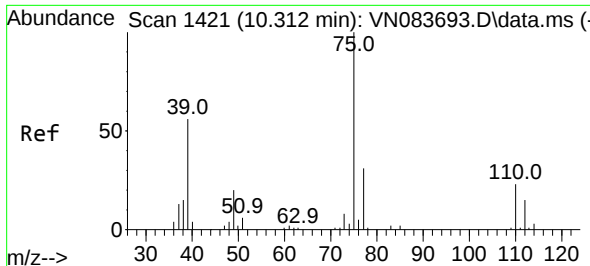


#47
n-amyl Acetate
Concen: 0.274 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09



Tgt Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
55 0.0 23.4 35.2#

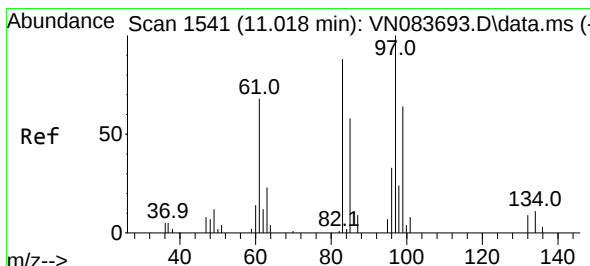
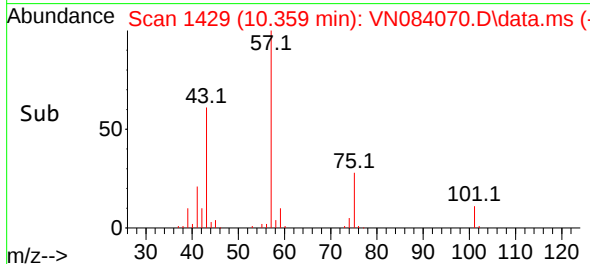
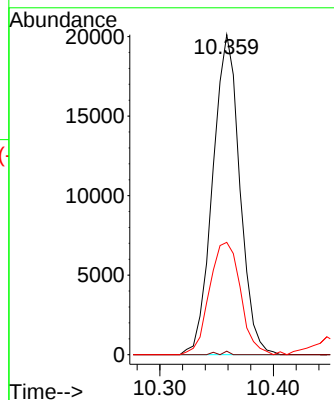
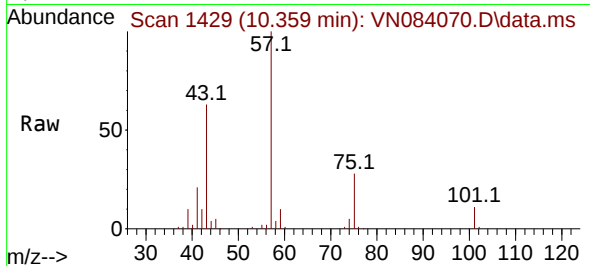




#49
 cis-1,3-Dichloropropene
 Concen: 12.723 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084070.D
 Acq: 20 Sep 2024 15:09

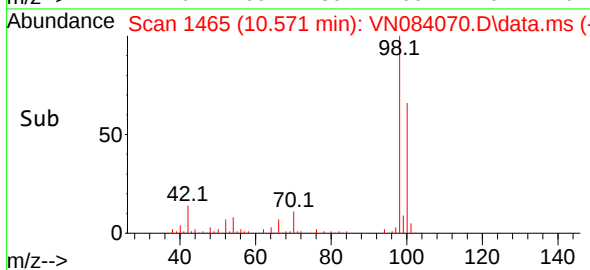
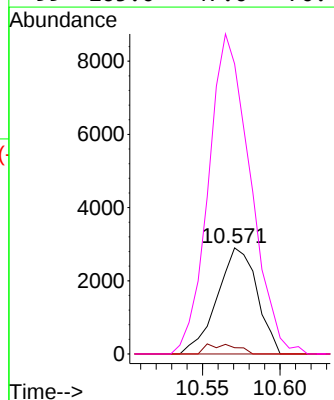
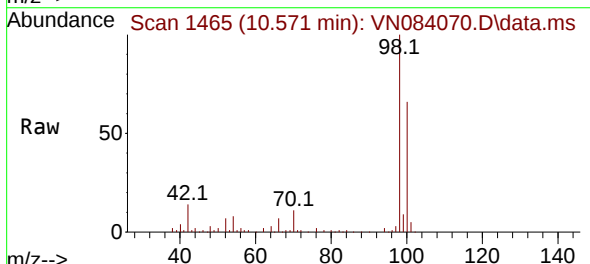
Instrument :
 MSVOA_N
 ClientSampleId :

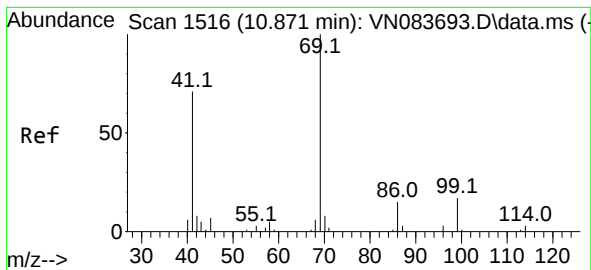
Tgt Ion: 75 Resp: 33371
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.9 37.3#
 39 35.1 31.0 46.6



#50
 1,1,2-Trichloroethane
 Concen: 3.614 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.447 min
 Lab File: VN084070.D
 Acq: 20 Sep 2024 15:09

Tgt Ion: 97 Resp: 5185
 Ion Ratio Lower Upper
 97 100
 83 6.0 68.1 102.1#
 85 0.0 41.8 62.6#
 99 265.0 47.0 70.4#





#51

Ethyl methacrylate

Concen: 0.504 ug/l

RT: 10.976 min Scan# 1

Delta R.T. 0.106 min

Lab File: VN084070.D

Acq: 20 Sep 2024 15:09

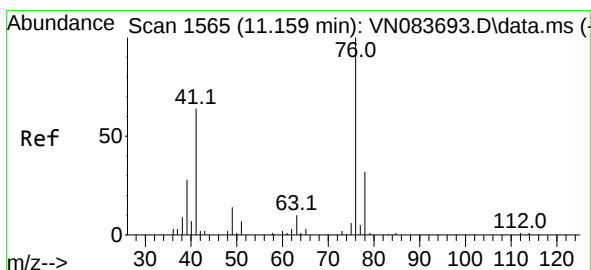
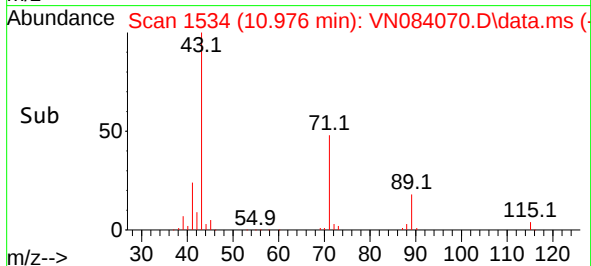
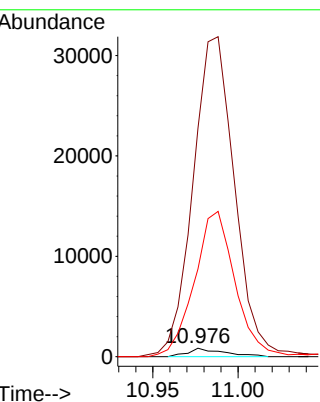
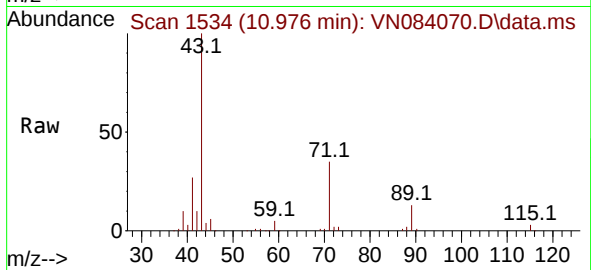
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 69 Resp: 1236

Ion	Ratio	Lower	Upper
69	100		
41	2541.8	25.5	76.5#
39	951.8	16.0	47.9#



#52

1,3-Dichloropropane

Concen: 1.851 ug/l

RT: 11.200 min Scan# 1572

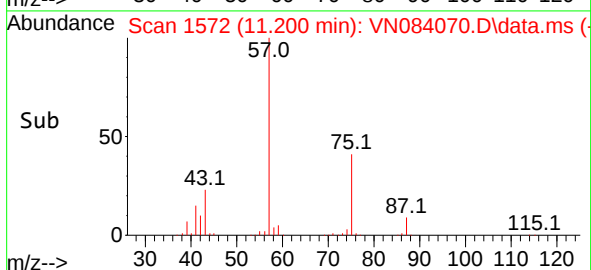
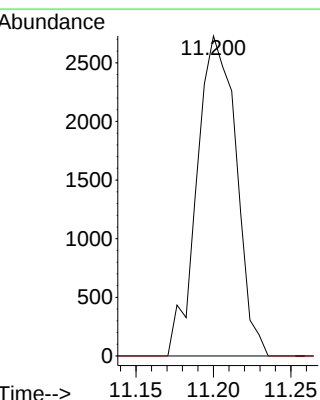
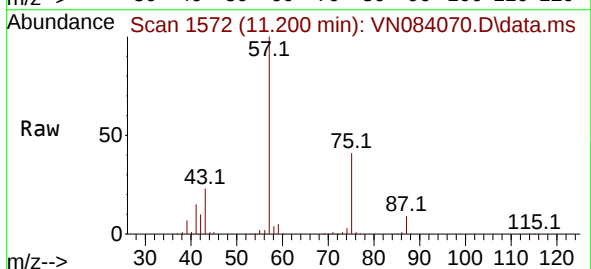
Delta R.T. 0.041 min

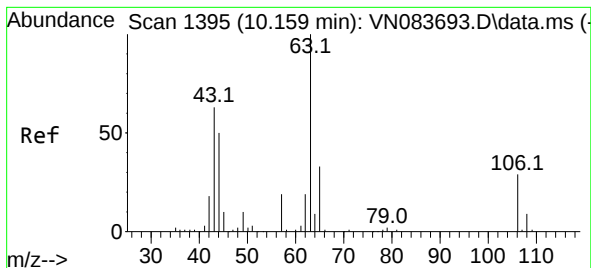
Lab File: VN084070.D

Acq: 20 Sep 2024 15:09

Tgt Ion: 76 Resp: 4797

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	65.8

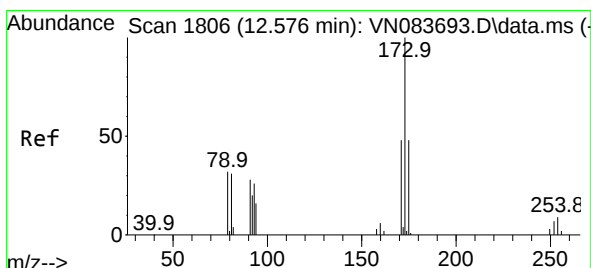
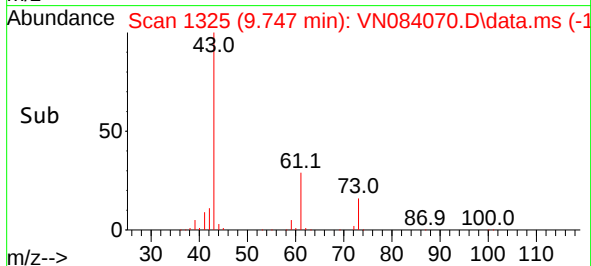
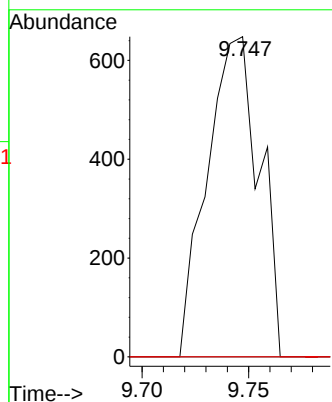
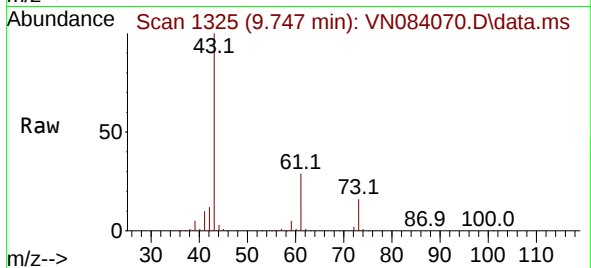




#55
2-Chloroethyl vinyl ether
Concen: 1.135 ug/l
RT: 9.747 min Scan# 1109
Delta R.T. -0.412 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

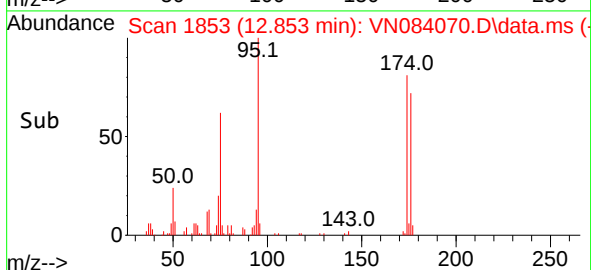
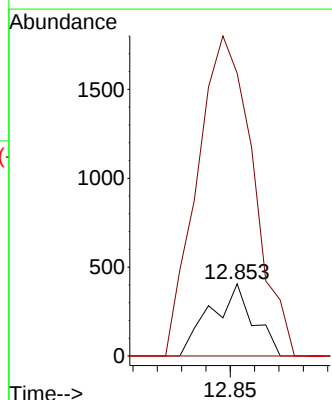
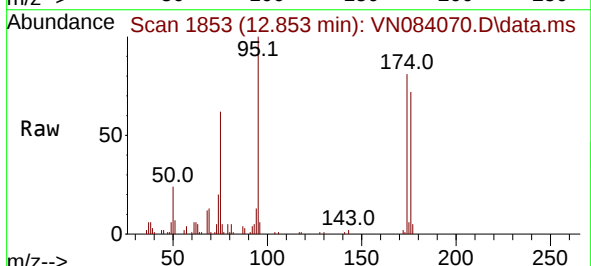
Instrument :
MSVOA_N
ClientSampleId :

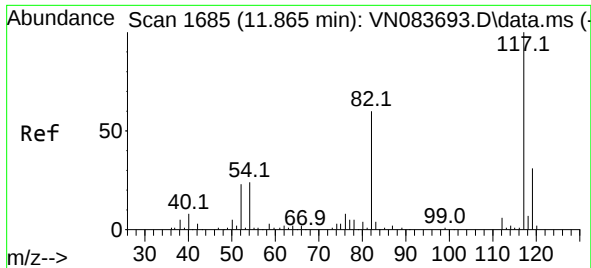
Tgt Ion:	63	Resp:	1109
Ion	Ratio	Lower	Upper
63	100		
65	0.0	26.2	39.2#
106	0.0	23.8	35.8#



#56
Bromoform
Concen: 0.454 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.277 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Tgt Ion:	173	Resp:	496
Ion	Ratio	Lower	Upper
173	100		
175	582.1	40.0	60.0#
254	0.0	8.3	12.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084070.D

Acq: 20 Sep 2024 15:09

Instrument :

MSVOA_N

ClientSampleId :

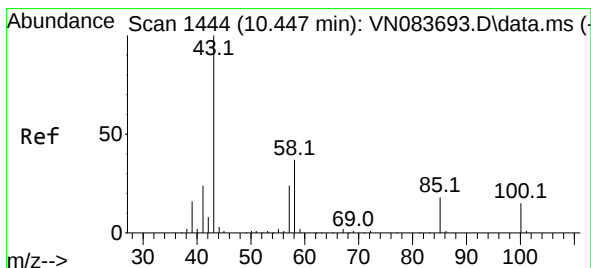
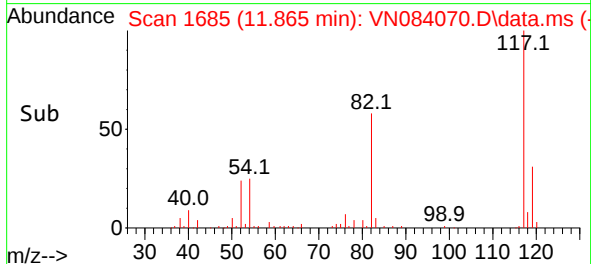
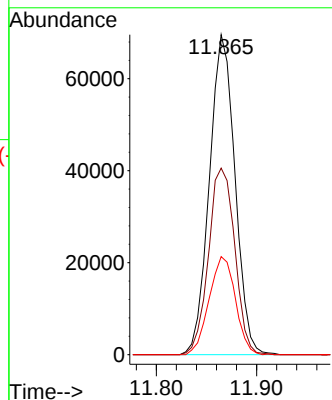
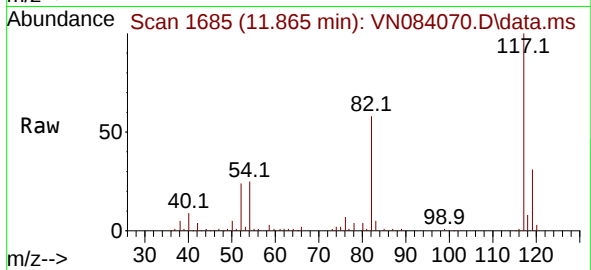
Tgt Ion:117 Resp: 123638

Ion Ratio Lower Upper

117 100

82 59.8 46.6 69.8

119 31.5 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 5.775 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN084070.D

Acq: 20 Sep 2024 15:09

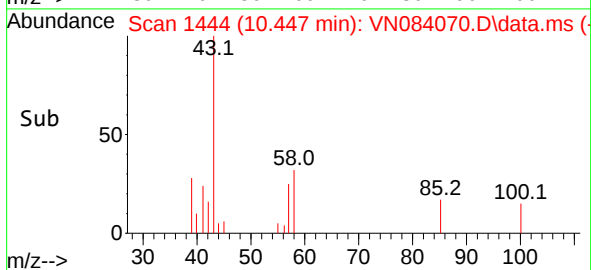
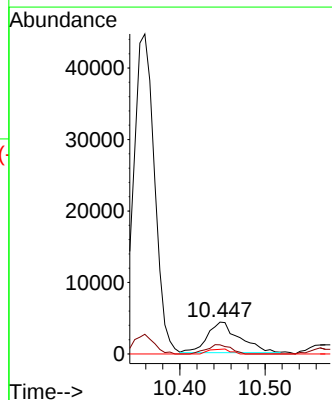
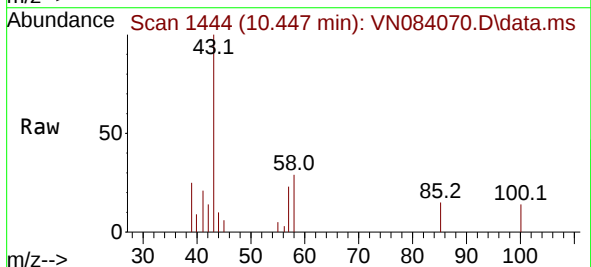
Tgt Ion: 43 Resp: 11322

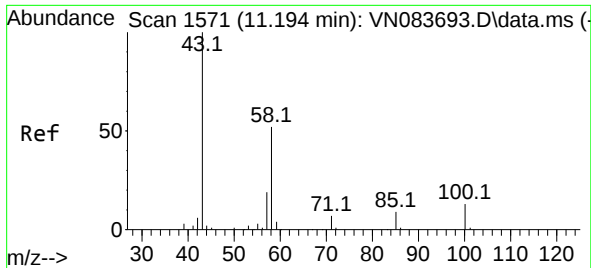
Ion Ratio Lower Upper

43 100

58 22.5 36.5 54.7#

85 10.5 19.5 29.3#

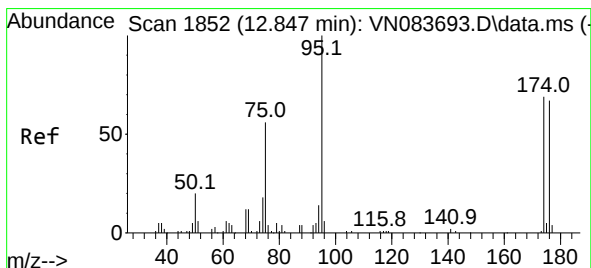
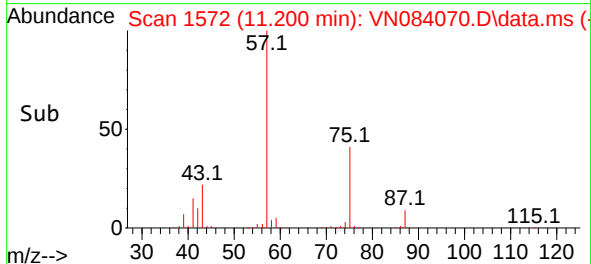
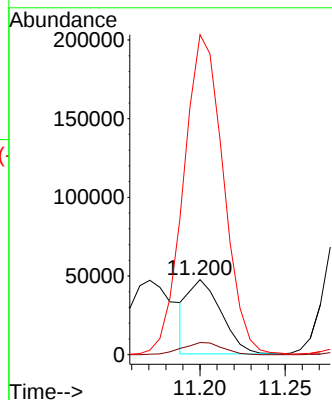
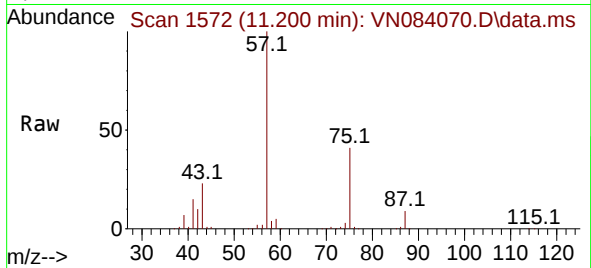




#59
2-Hexanone
Concen: 42.879 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

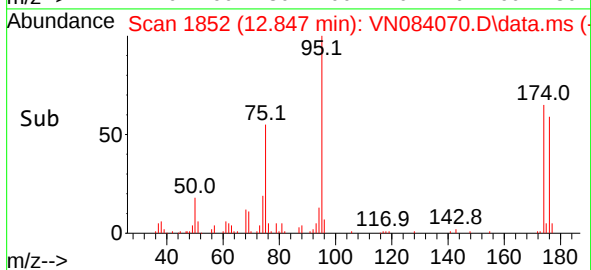
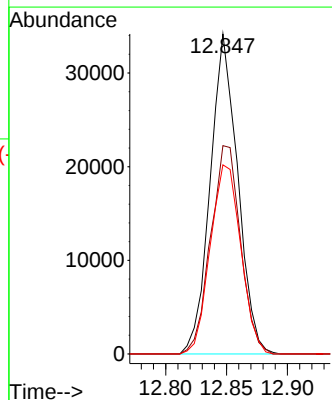
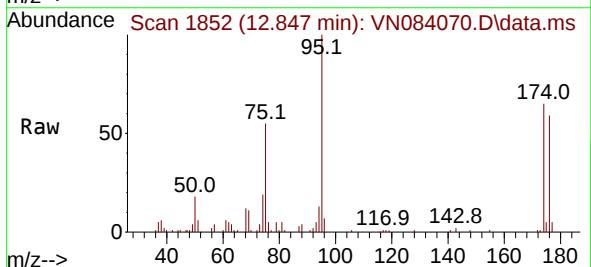
Instrument :
MSVOA_N
ClientSampleId :

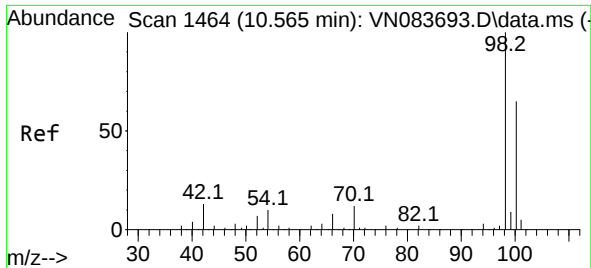
Tgt Ion: 43 Resp: 63518
Ion Ratio Lower Upper
43 100
58 20.1 50.4 75.6#
57 522.7 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 25.218 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

Tgt Ion: 95 Resp: 53736
Ion Ratio Lower Upper
95 100
174 70.5 60.5 90.7
176 65.5 57.8 86.6

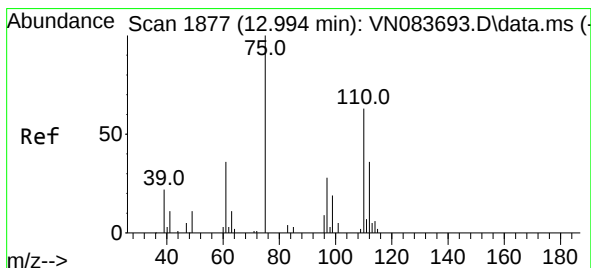
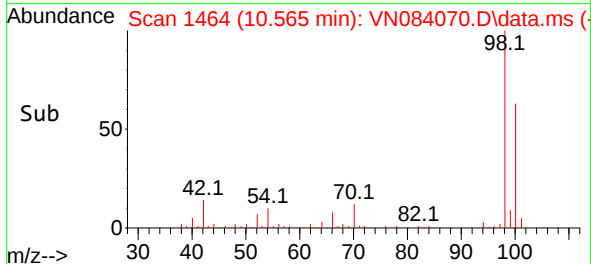
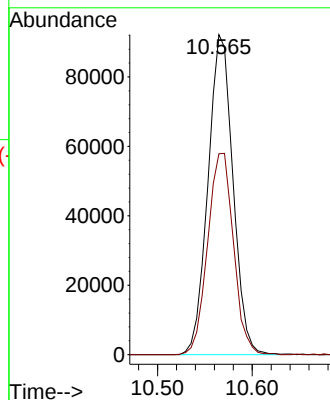
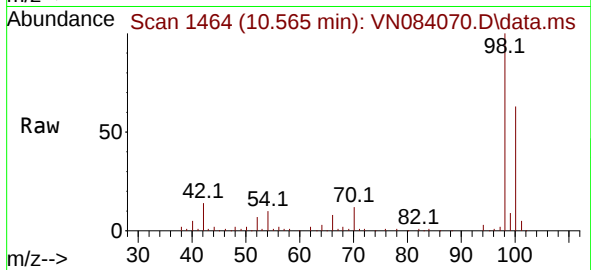




#63
Toluene-d8
Concen: 29.480 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

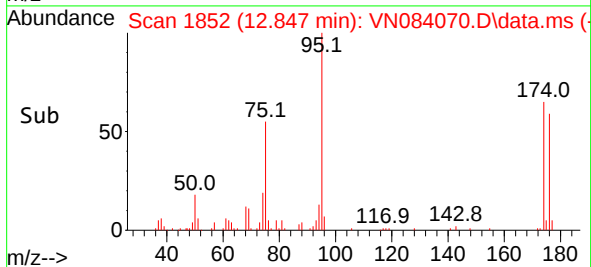
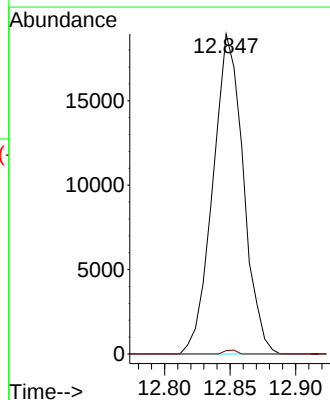
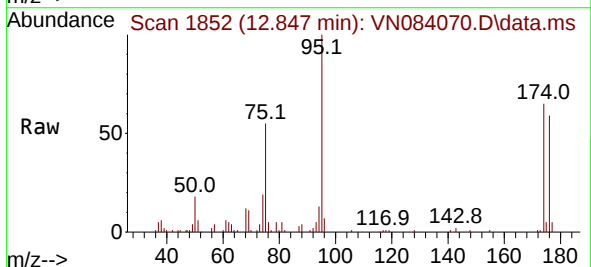
Instrument :
MSVOA_N
ClientSampleId :

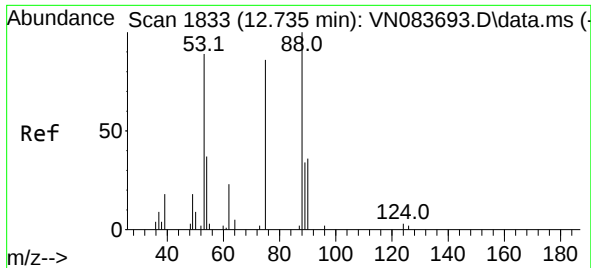
Tgt Ion: 98 Resp: 168770
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084070.D
Acq: 20 Sep 2024 15:09

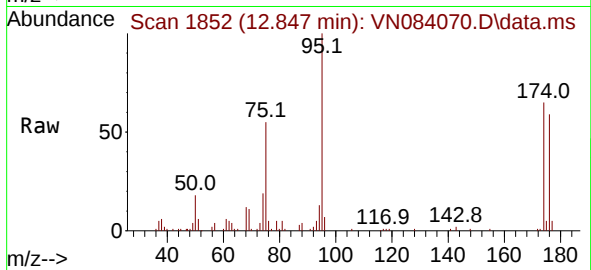
Tgt Ion: 75 Resp: 30639
Ion Ratio Lower Upper
75 100
77 0.5 0.0 367.6





#77
 t-1,4-Dichloro-2-butene
 Concen: 39.861 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN084070.D
 Acq: 20 Sep 2024 15:09

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 30639
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#

