

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
 Data File : VN084878.D  
 Acq On : 15 Nov 2024 18:48  
 Operator : JC\MD  
 Sample : P4867-02 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 15 22:29:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 01 02:38:04 2024  
 Response via : Initial Calibration

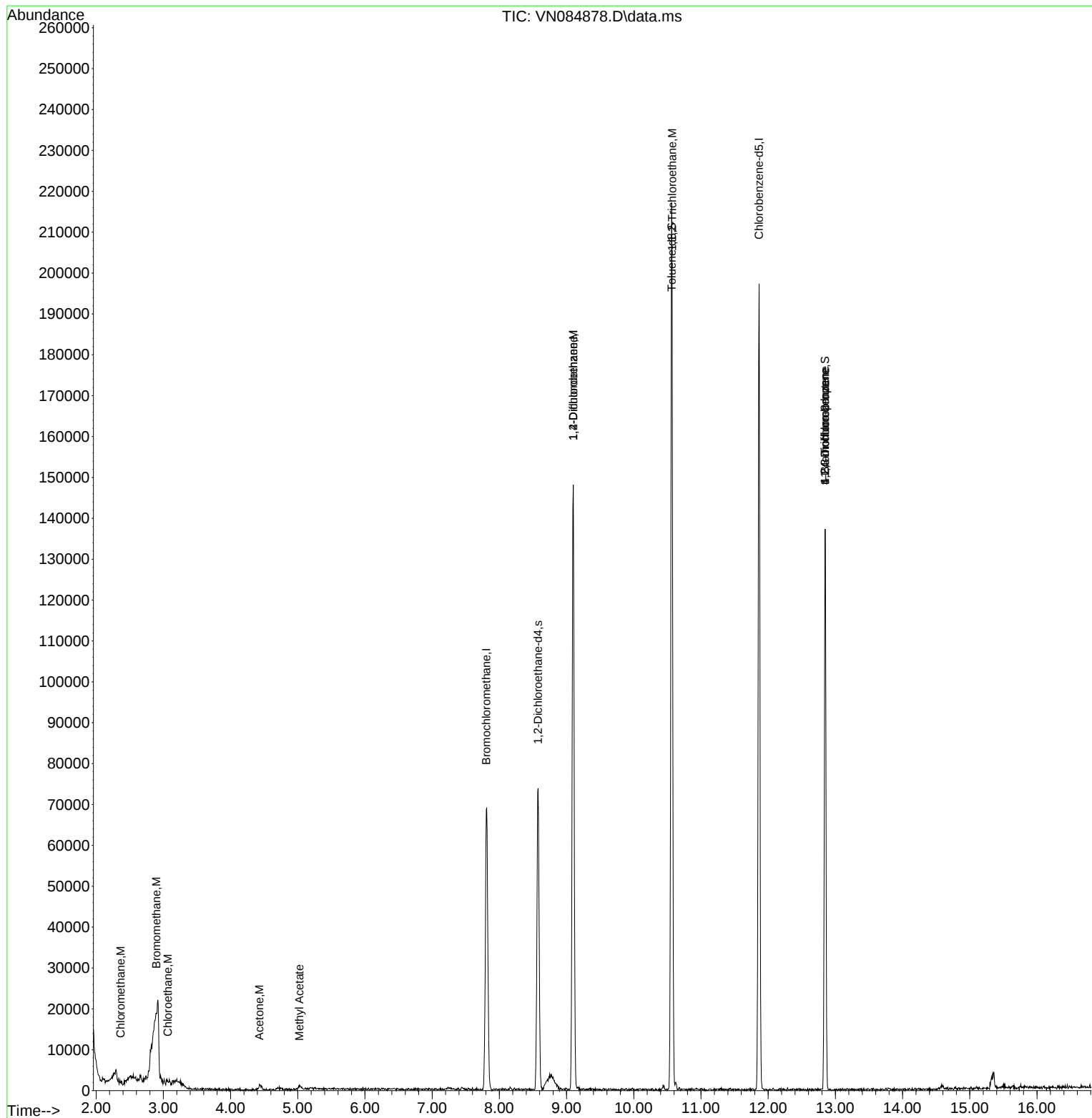
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.806  | 128   | 26101    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 127160   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 115728   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.577  | 65    | 63478    | 30.251   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 100.833% |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 48856    | 24.518   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 81.733%  |
| 63) Toluene-d8              | 10.565 | 98    | 154153   | 28.137   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 93.800%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.365  | 50    | 506      | 0.277    | ug/l # | 43       |
| 5) Bromomethane             | 2.895  | 94    | 197      | 0.229    | ug/l # | 4        |
| 6) Chloroethane             | 3.065  | 64    | 390      | 0.350    | ug/l # | 47       |
| 12) Methyl Acetate          | 5.024  | 43    | 1139     | 0.480    | ug/l # | 80       |
| 15) Acetone                 | 4.430  | 58    | 261      | 1.310    | ug/l # | 1        |
| 36) 1,2-Dichloroethane      | 9.100  | 62    | 4381     | 2.081    | ug/l # | 74       |
| 50) 1,1,2-Trichloroethane   | 10.571 | 97    | 5147     | 3.599    | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75    | 26044    | 14.807   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 26044    | 36.103   | ug/l # | 7        |
| -----                       |        |       |          |          |        |          |

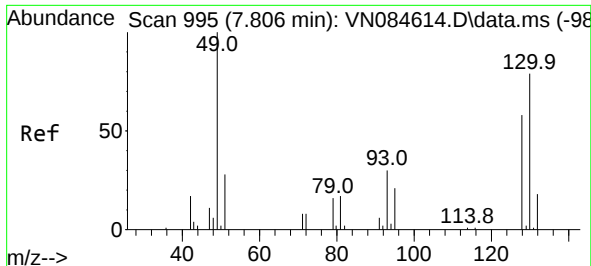
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : P4867-02 5X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

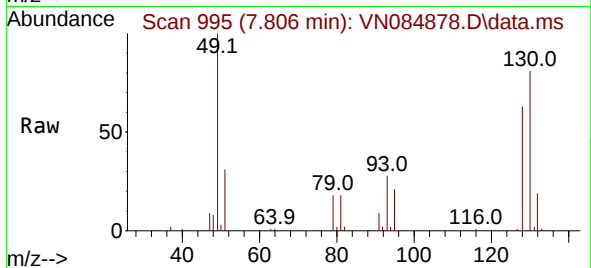
Quant Time: Nov 15 22:29:19 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Nov 01 02:38:04 2024  
Response via : Initial Calibration



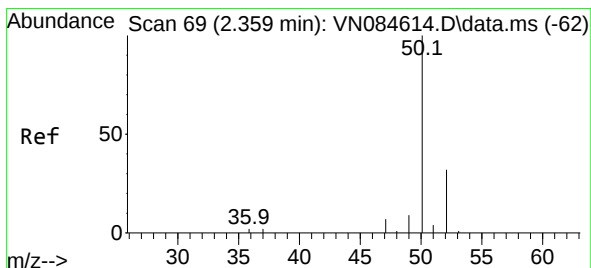
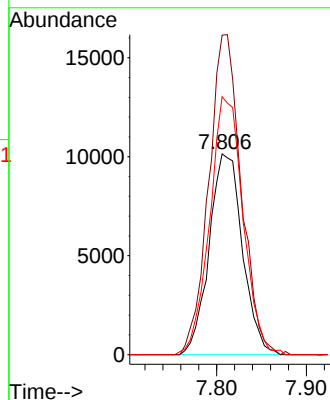
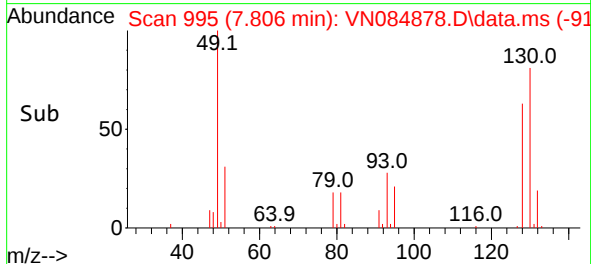


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.806 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

Instrument :  
MSVOA\_N  
ClientSampleId :

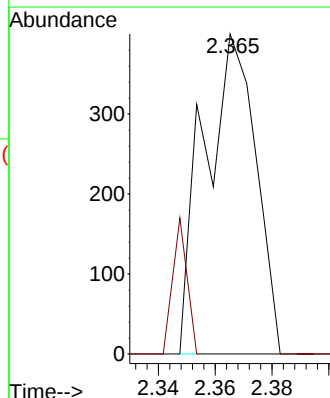
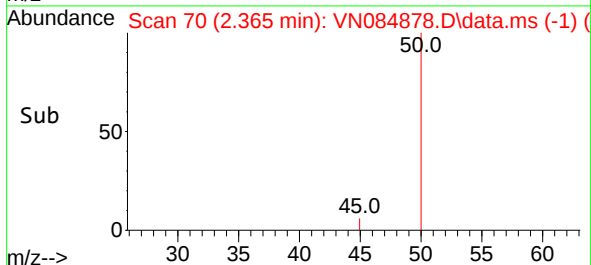
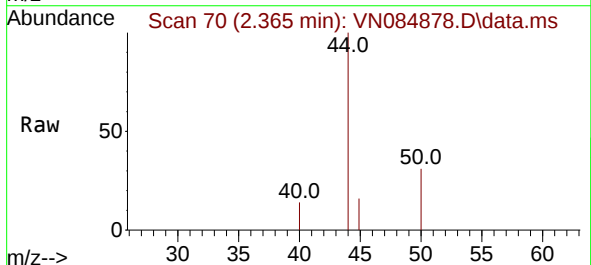


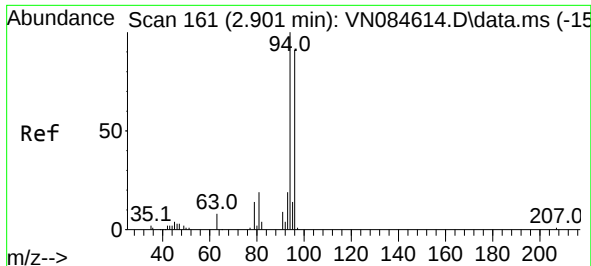
Tgt Ion:128 Resp: 26101  
Ion Ratio Lower Upper  
128 100  
49 155.3 0.0 427.0  
130 128.3 0.0 322.2



#3  
Chloromethane  
Concen: 0.277 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

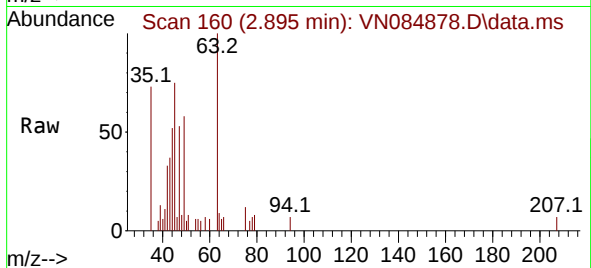
Tgt Ion: 50 Resp: 506  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#



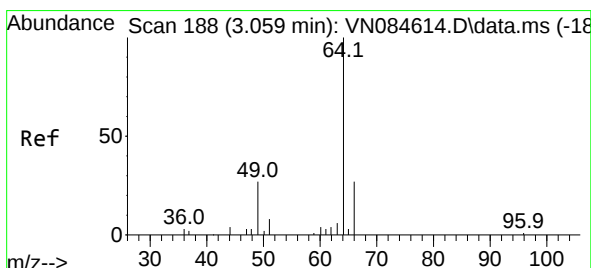
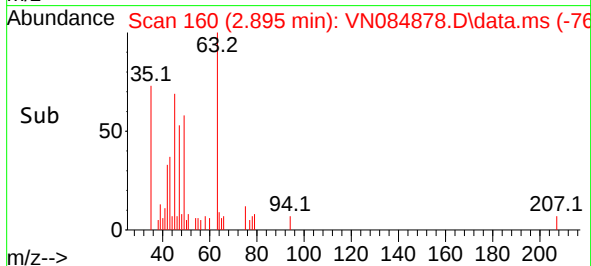
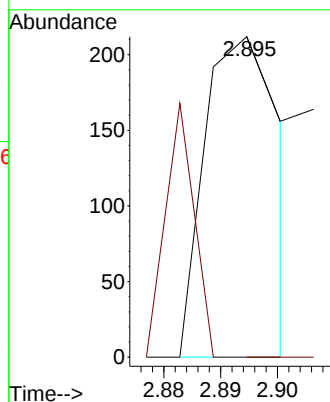


#5  
Bromomethane  
Concen: 0.229 ug/l  
RT: 2.895 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

Instrument :  
MSVOA\_N  
ClientSampleId :

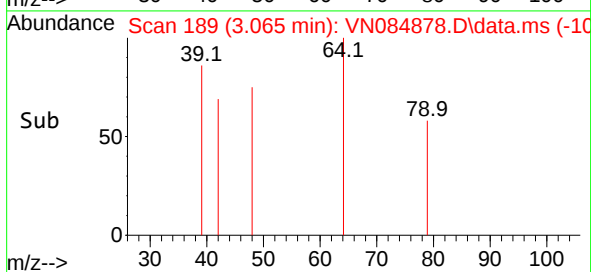
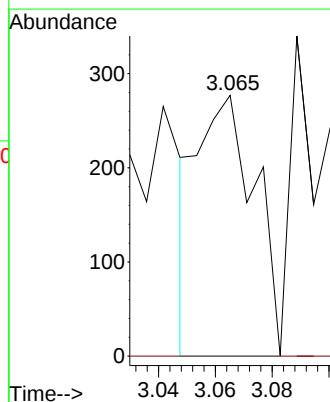
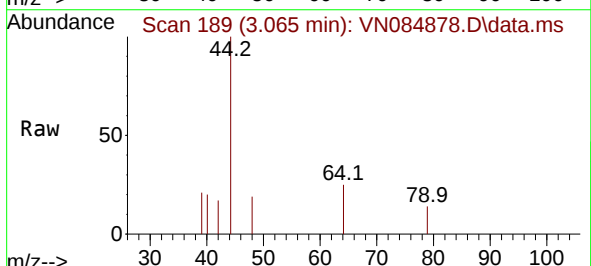


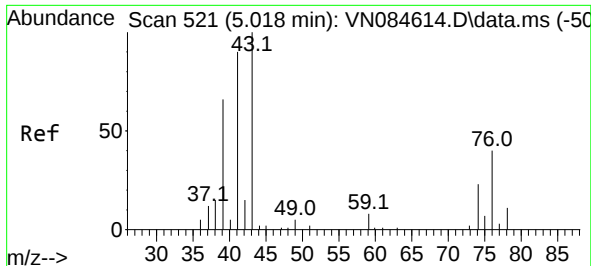
Tgt Ion: 94 Resp: 197  
Ion Ratio Lower Upper  
94 100  
96 0.0 72.7 109.1#



#6  
Chloroethane  
Concen: 0.350 ug/l  
RT: 3.065 min Scan# 189  
Delta R.T. 0.006 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

Tgt Ion: 64 Resp: 390  
Ion Ratio Lower Upper  
64 100  
66 0.0 22.1 33.1#





#12

Methyl Acetate

Concen: 0.480 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

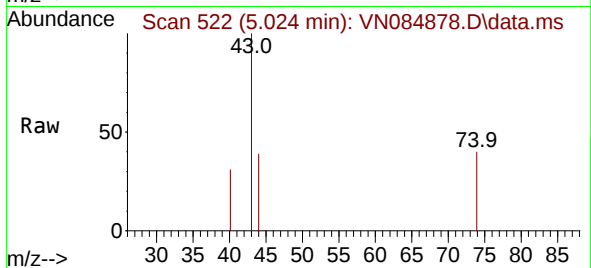
Lab File: VN084878.D

Acq: 15 Nov 2024 18:48

Instrument :

MSVOA\_N

ClientSampleId :

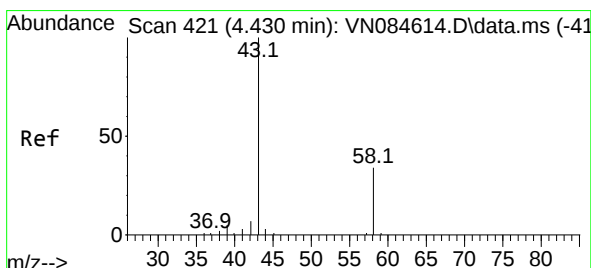
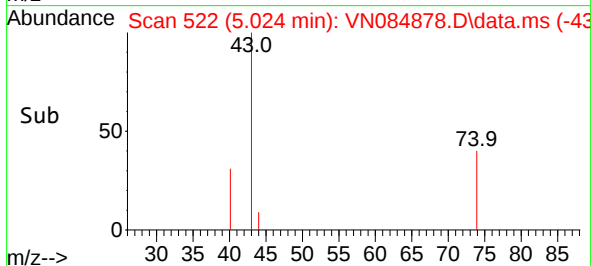
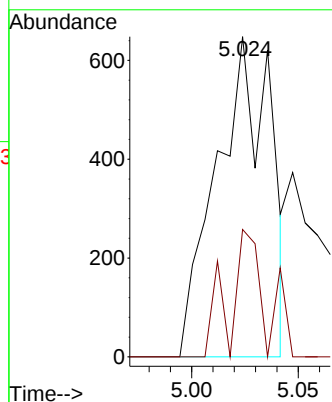


Tgt Ion: 43 Resp: 1139

Ion Ratio Lower Upper

43 100

74 33.3 19.0 28.4#



#15

Acetone

Concen: 1.310 ug/l

RT: 4.430 min Scan# 421

Delta R.T. -0.000 min

Lab File: VN084878.D

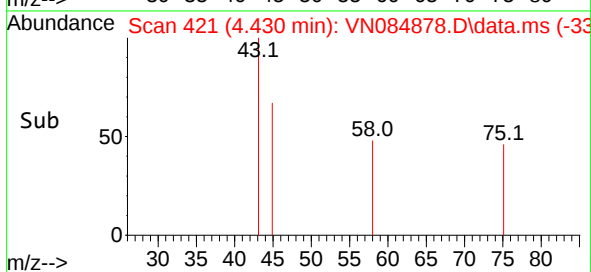
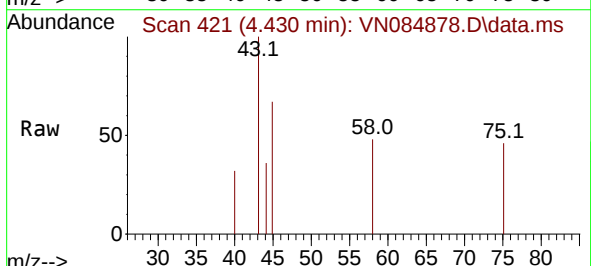
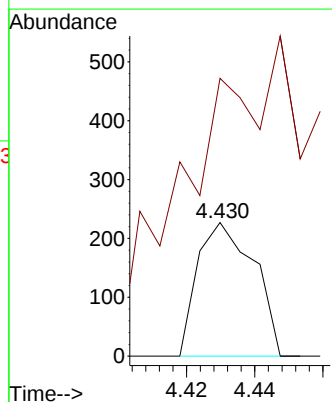
Acq: 15 Nov 2024 18:48

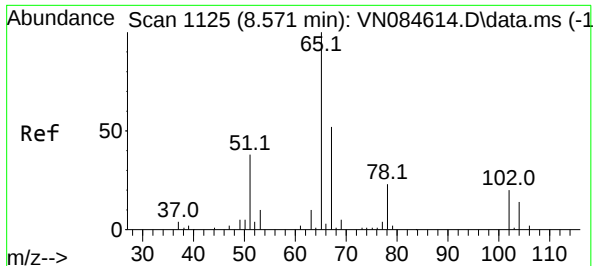
Tgt Ion: 58 Resp: 261

Ion Ratio Lower Upper

58 100

43 62.6 233.0 349.6#

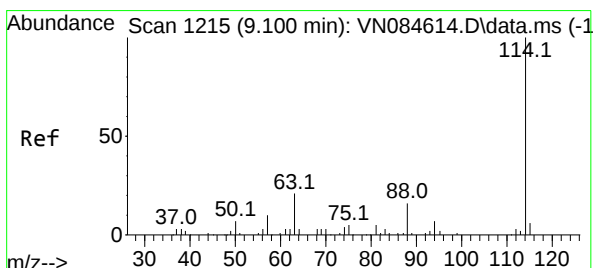
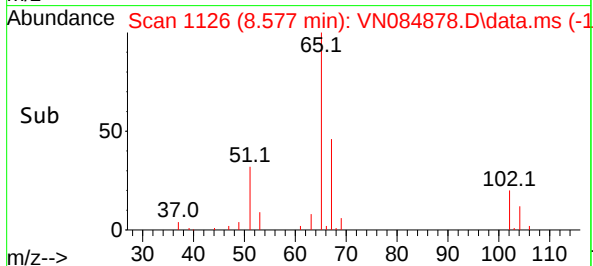
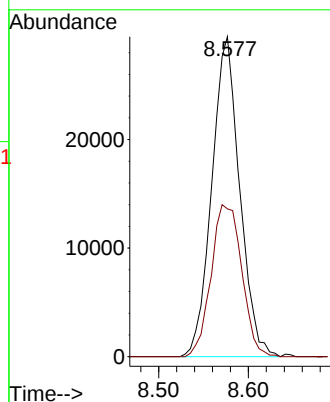
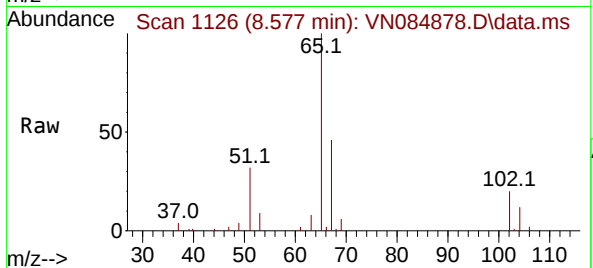




#27  
1,2-Dichloroethane-d4  
Concen: 30.251 ug/l  
RT: 8.577 min Scan# 1125  
Delta R.T. 0.006 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

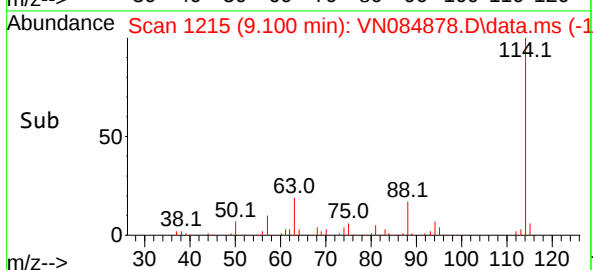
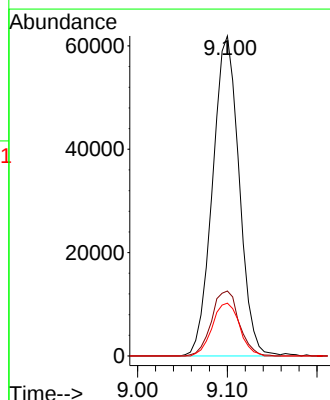
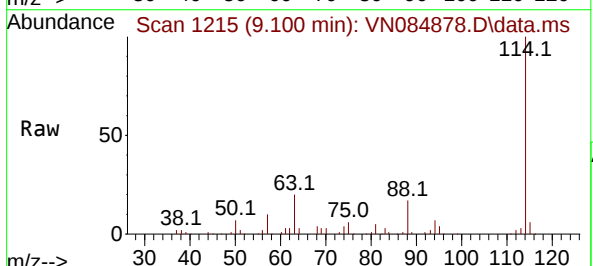
Instrument :  
MSVOA\_N  
ClientSampleId :

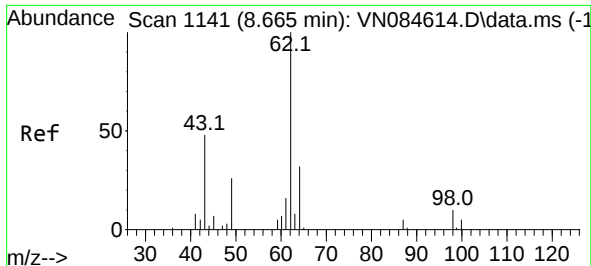
Tgt Ion: 65 Resp: 63478  
Ion Ratio Lower Upper  
65 100  
67 52.3 40.7 61.1



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. -0.000 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

Tgt Ion: 114 Resp: 127160  
Ion Ratio Lower Upper  
114 100  
63 21.0 16.8 25.2  
88 17.0 12.9 19.3





#36

1,2-Dichloroethane

Concen: 2.081 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN084878.D

Acq: 15 Nov 2024 18:48

Instrument :

MSVOA\_N

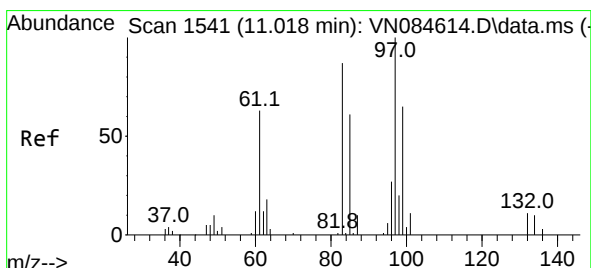
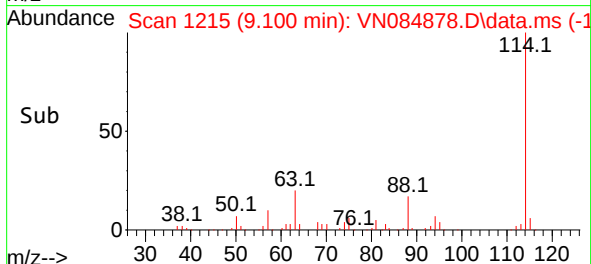
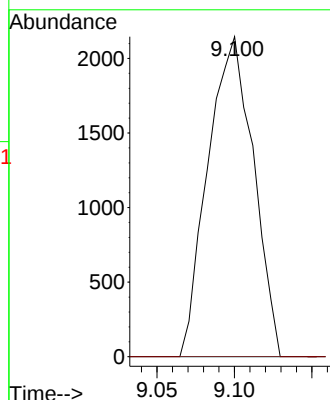
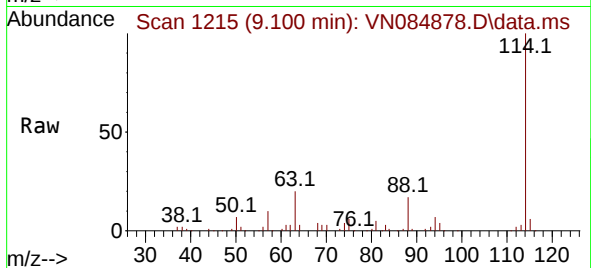
ClientSampleId :

Tgt Ion: 62 Resp: 4381

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#



#50

1,1,2-Trichloroethane

Concen: 3.599 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

Lab File: VN084878.D

Acq: 15 Nov 2024 18:48

Tgt Ion: 97 Resp: 5147

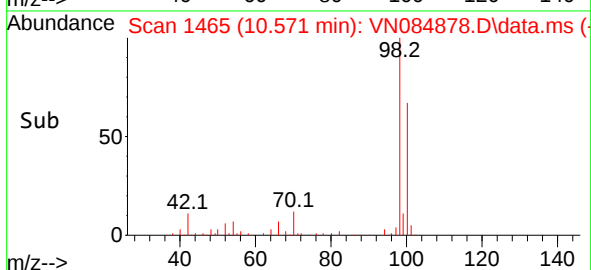
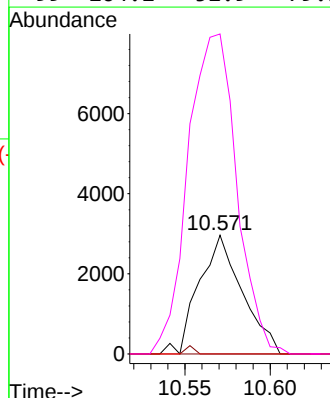
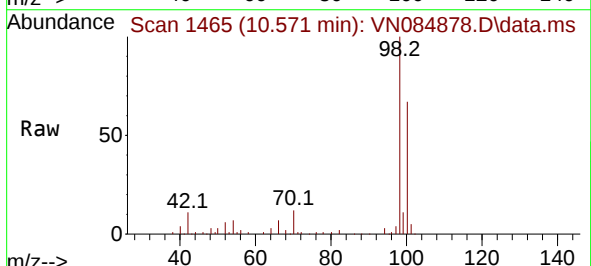
Ion Ratio Lower Upper

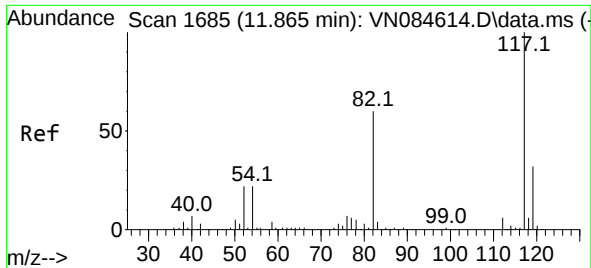
97 100

83 0.0 69.8 104.8#

85 0.0 48.6 73.0#

99 264.2 52.9 79.3#

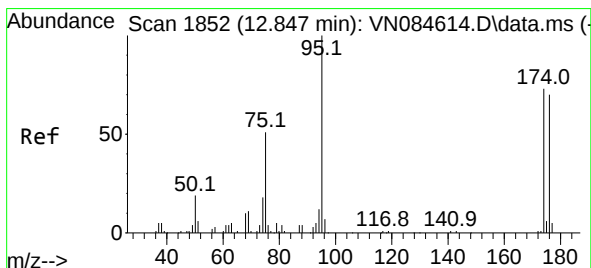
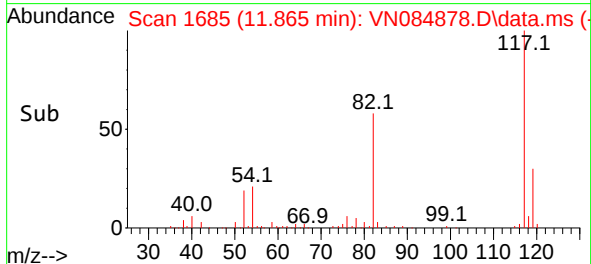
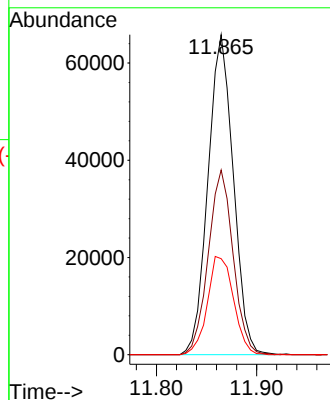
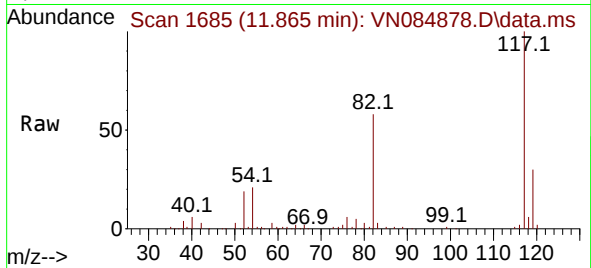




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 115728  
Delta R.T. -0.000 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

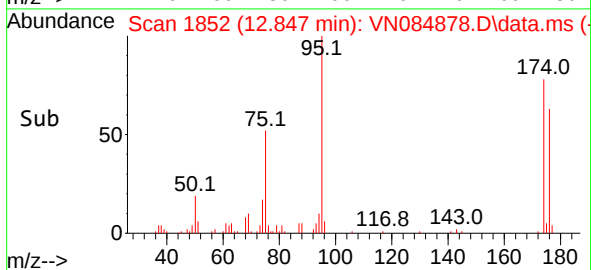
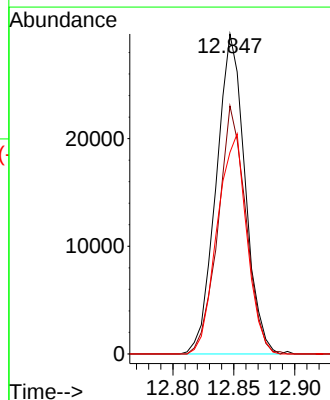
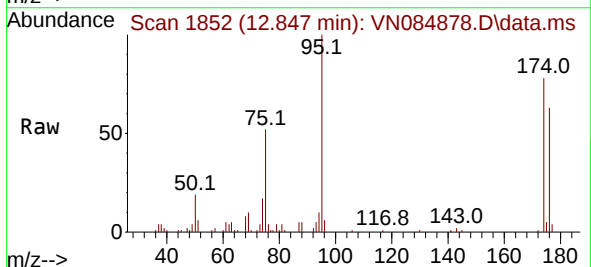
Instrument :  
MSVOA\_N  
ClientSampleId :

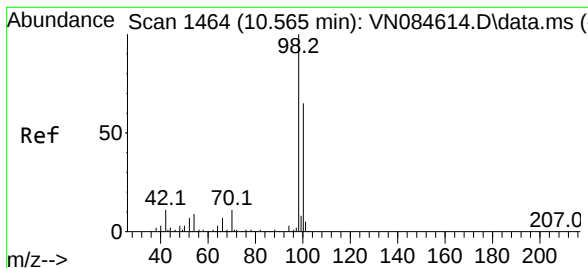
Tgt Ion:117 Resp: 115728  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.5 68.3  
119 31.7 25.3 37.9



#60  
4-Bromofluorobenzene  
Concen: 24.518 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084878.D  
Acq: 15 Nov 2024 18:48

Tgt Ion: 95 Resp: 48856  
Ion Ratio Lower Upper  
95 100  
174 75.1 59.6 89.4  
176 70.8 58.6 88.0





#63

Toluene-d8

Concen: 28.137 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084878.D

Acq: 15 Nov 2024 18:48

Instrument :

MSVOA\_N

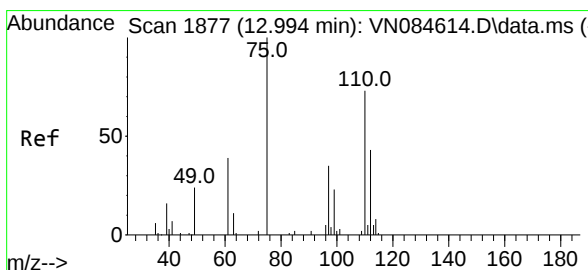
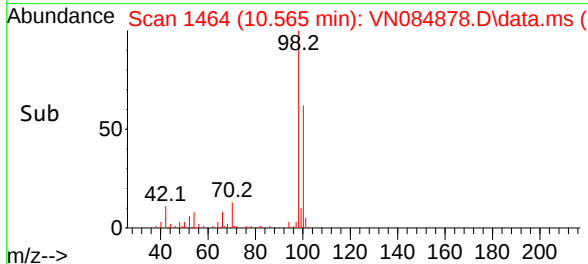
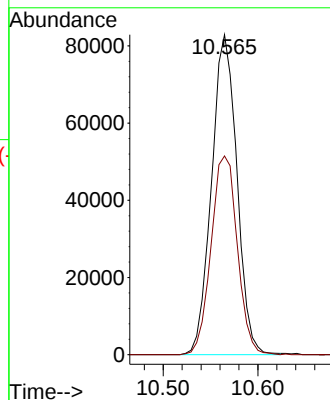
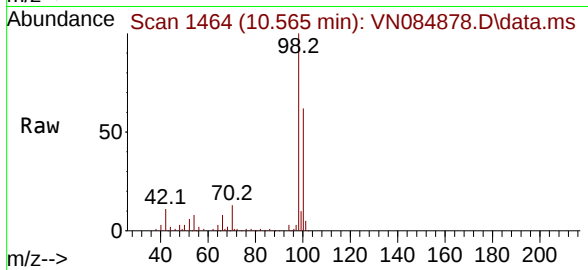
ClientSampleId :

Tgt Ion: 98 Resp: 154153

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2



#72

1,2,3-Trichloropropane

Concen: 14.807 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084878.D

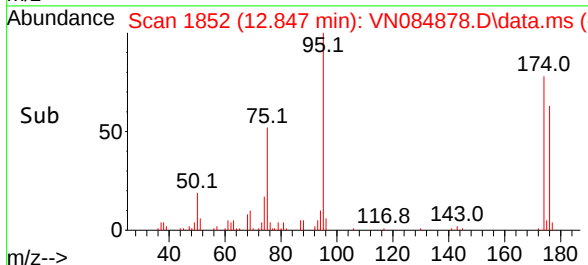
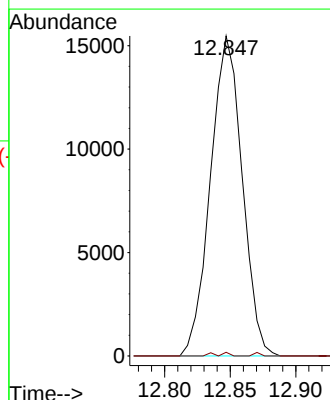
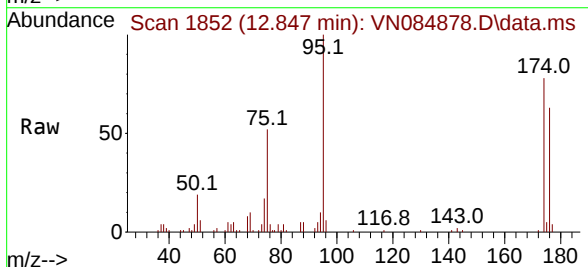
Acq: 15 Nov 2024 18:48

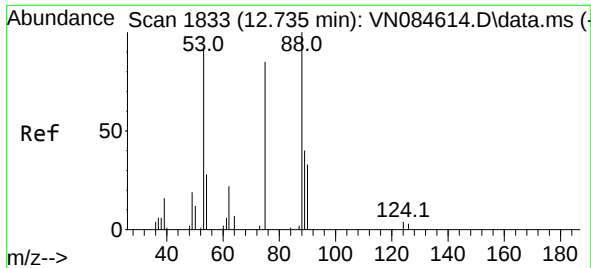
Tgt Ion: 75 Resp: 26044

Ion Ratio Lower Upper

75 100

77 0.2 0.0 358.4





#77

t-1,4-Dichloro-2-butene

Concen: 36.103 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

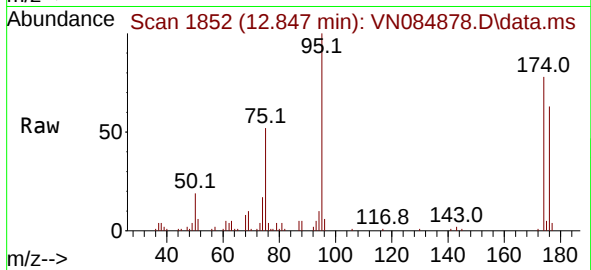
Lab File: VN084878.D

Acq: 15 Nov 2024 18:48

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion: 75 Resp: 26044

Ion Ratio Lower Upper

75 100

53 0.0 52.4 157.2#

89 0.0 26.0 78.0#

