

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011525\  
 Data File : VN085460.D  
 Acq On : 15 Jan 2025 14:37  
 Operator : JC\MD  
 Sample : Q1069-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW7B-CARBON-20250109

Quant Time: Jan 16 00:59:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 15 02:16:08 2025  
 Response via : Initial Calibration

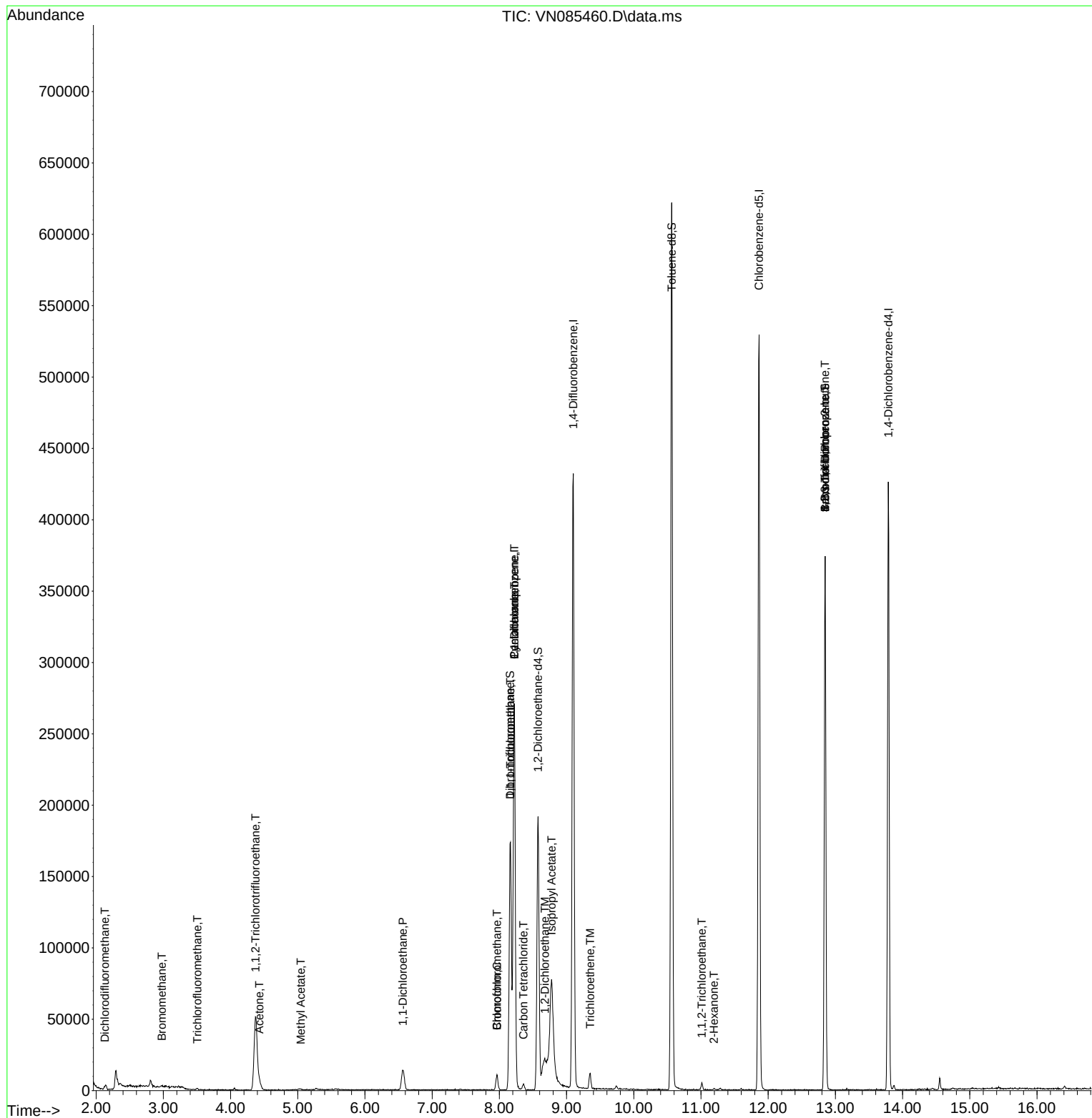
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 181061   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 354107   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 288035   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 108344   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 162792   | 55.699   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 111.400% |
| 35) Dibromofluoromethane      | 8.159  | 113   | 122198   | 49.742   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 99.480%  |
| 50) Toluene-d8                | 10.565 | 98    | 413472   | 47.371   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 94.740%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 122853   | 41.146   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 82.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.130  | 85    | 1949     | 0.795    | ug/l # | 66       |
| 5) Bromomethane               | 2.977  | 94    | 572      | 0.355    | ug/l   | 82       |
| 7) Trichlorofluoromethane     | 3.506  | 101   | 1179     | 0.305    | ug/l # | 70       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.371  | 101   | 36336    | 16.665   | ug/l   | 99       |
| 16) Acetone                   | 4.430  | 43    | 13082    | 13.853   | ug/l   | 100      |
| 18) Methyl Acetate            | 5.047  | 43    | 1550     | 0.540    | ug/l # | 52       |
| 24) 1,1-Dichloroethane        | 6.565  | 63    | 21243    | 4.978    | ug/l   | 98       |
| 28) Bromochloromethane        | 7.965  | 49    | 621      | 0.313    | ug/l # | 18       |
| 30) Chloroform                | 7.965  | 83    | 9663     | 2.191    | ug/l   | 99       |
| 31) Cyclohexane               | 8.224  | 56    | 5265     | 1.419    | ug/l # | 8        |
| 32) 1,1,1-Trichloroethane     | 8.165  | 97    | 3600     | 0.931    | ug/l # | 51       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 18064    | 5.239    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.359  | 117   | 2942     | 0.745    | ug/l   | 86       |
| 42) 1,2-Dichloroethane        | 8.677  | 62    | 4024     | 1.031    | ug/l   | 86       |
| 43) Isopropyl Acetate         | 8.777  | 43    | 146591   | 26.288   | ug/l # | 57       |
| 44) Trichloroethene           | 9.353  | 130   | 3555     | 1.474    | ug/l   | 86       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97    | 1586     | 0.668    | ug/l   | 92       |
| 59) 2-Hexanone                | 11.194 | 43    | 753      | 0.331    | ug/l # | 26       |
| 71) Bromoform                 | 12.847 | 173   | 1071     | 0.646    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 68999    | 31.333   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 68999    | 84.774   | ug/l # | 3        |
| -----                         |        |       |          |          |        |          |

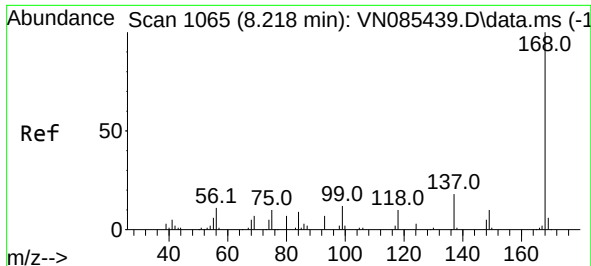
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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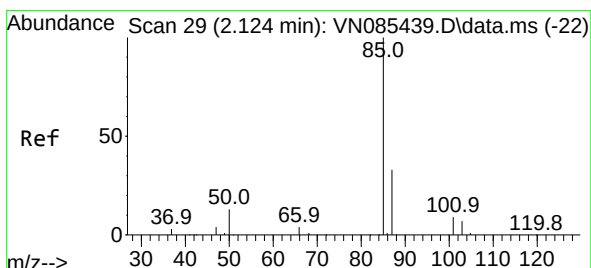
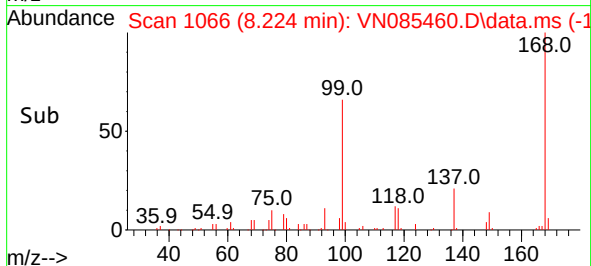
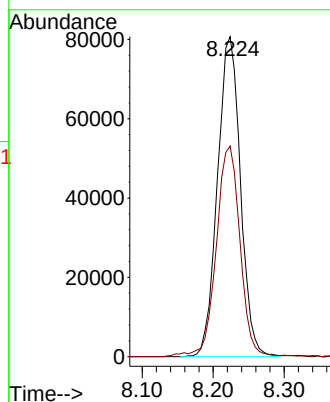
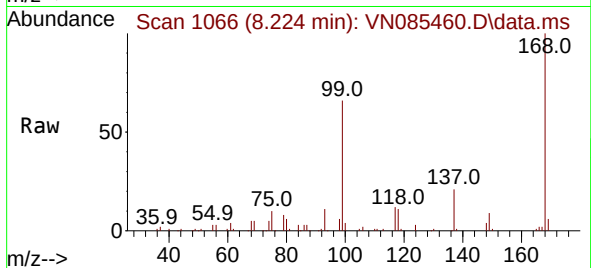




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

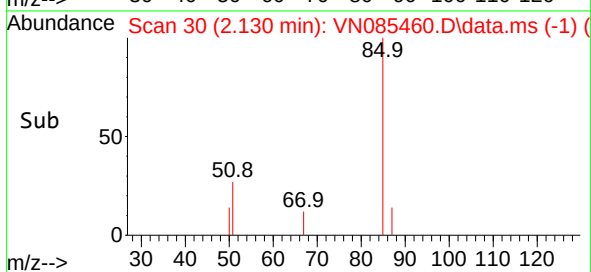
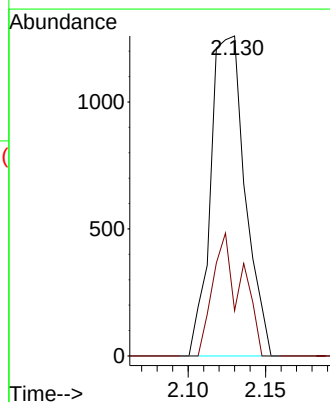
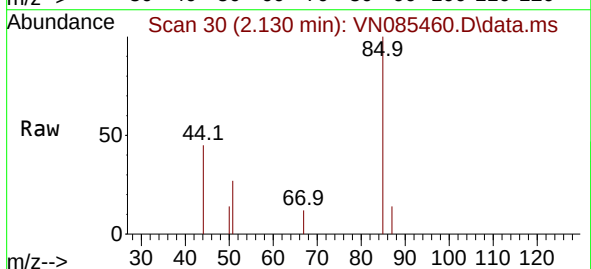
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MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

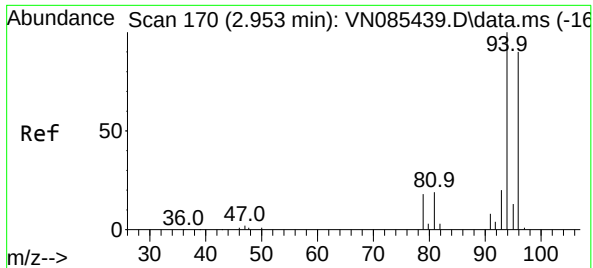
Tgt Ion:168 Resp: 181061  
Ion Ratio Lower Upper  
168 100  
99 65.4 53.6 80.4



#2  
Dichlorodifluoromethane  
Concen: 0.795 ug/l  
RT: 2.130 min Scan# 30  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 85 Resp: 1949  
Ion Ratio Lower Upper  
85 100  
87 14.1 16.7 50.1#

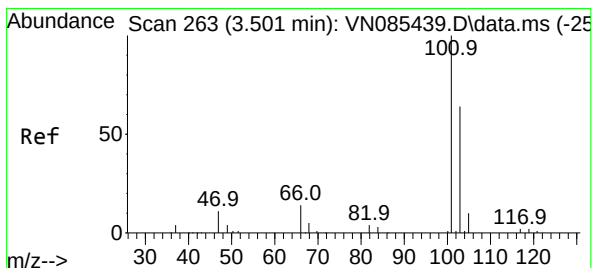
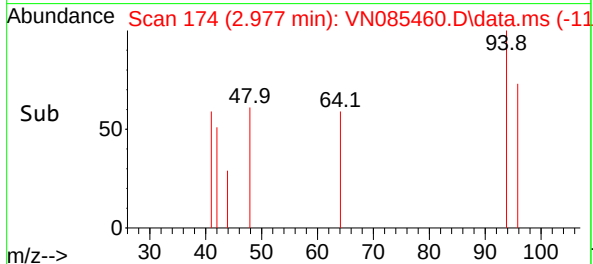
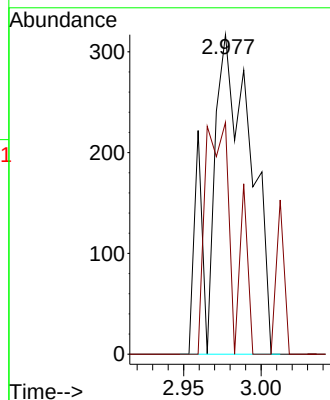
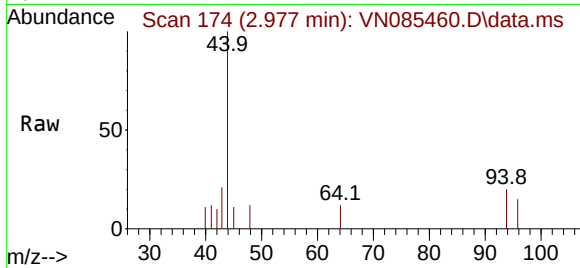




#5  
Bromomethane  
Concen: 0.355 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

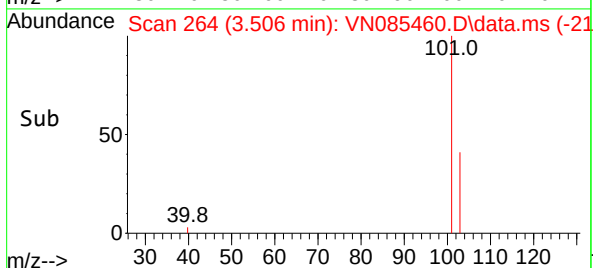
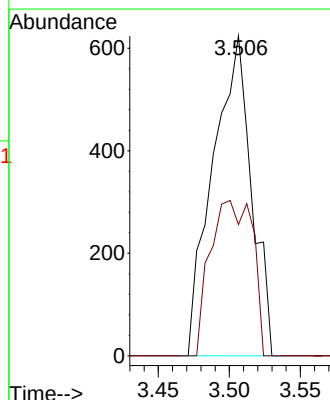
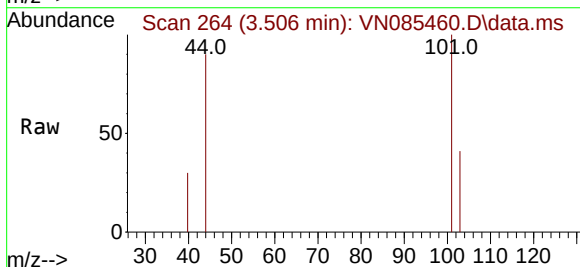
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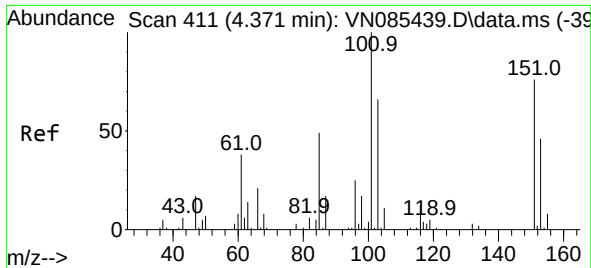
Tgt Ion: 94 Resp: 572  
Ion Ratio Lower Upper  
94 100  
96 72.6 71.8 107.6



#7  
Trichlorofluoromethane  
Concen: 0.305 ug/l  
RT: 3.506 min Scan# 264  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 101 Resp: 1179  
Ion Ratio Lower Upper  
101 100  
103 41.0 51.4 77.2#

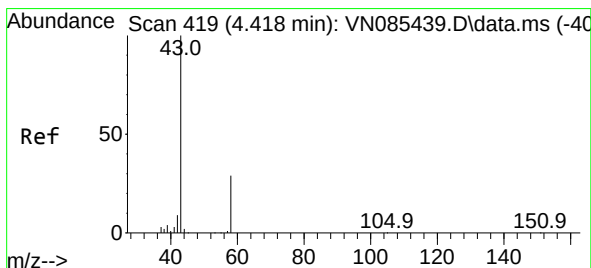
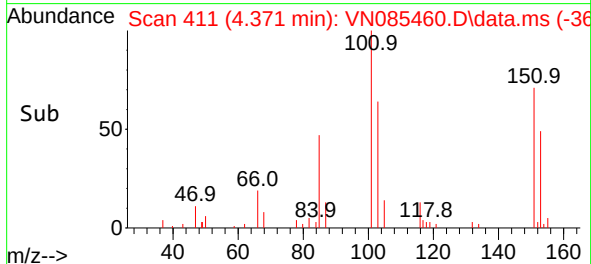
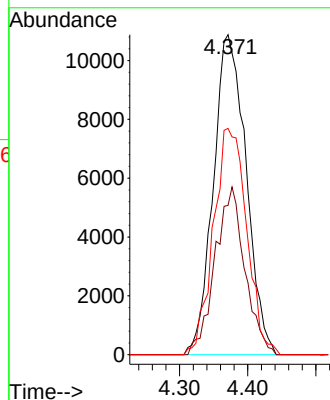
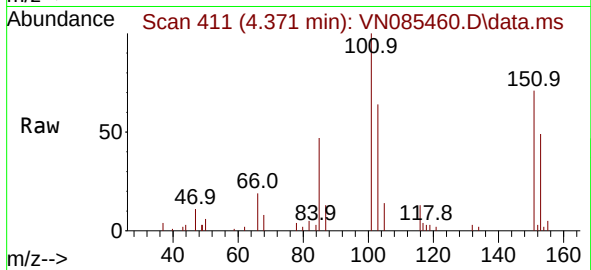




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 16.665 ug/l  
 RT: 4.371 min Scan# 411  
 Delta R.T. -0.000 min  
 Lab File: VN085460.D  
 Acq: 15 Jan 2025 14:37

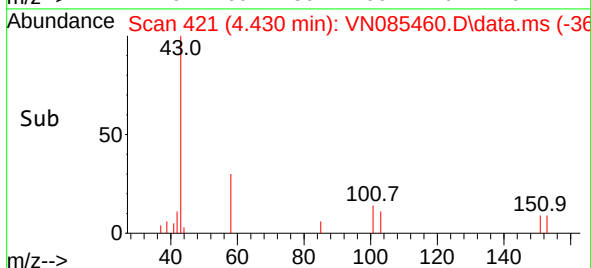
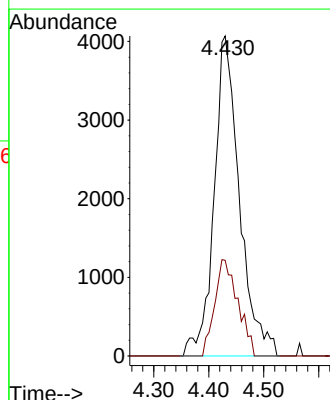
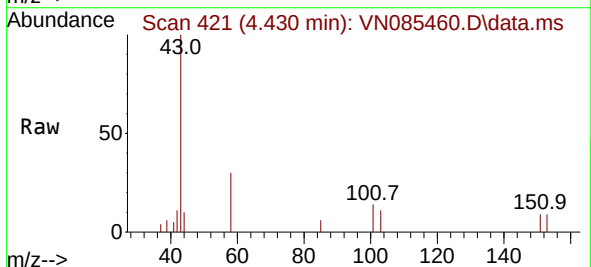
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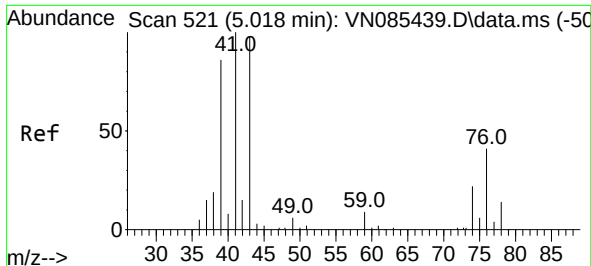
Tgt Ion:101 Resp: 36336  
 Ion Ratio Lower Upper  
 101 100  
 85 47.8 37.8 56.8  
 151 71.8 58.8 88.2



#16  
 Acetone  
 Concen: 13.853 ug/l  
 RT: 4.430 min Scan# 421  
 Delta R.T. 0.012 min  
 Lab File: VN085460.D  
 Acq: 15 Jan 2025 14:37

Tgt Ion: 43 Resp: 13082  
 Ion Ratio Lower Upper  
 43 100  
 58 29.9 23.8 35.6

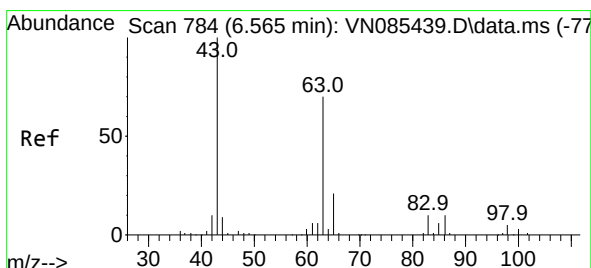
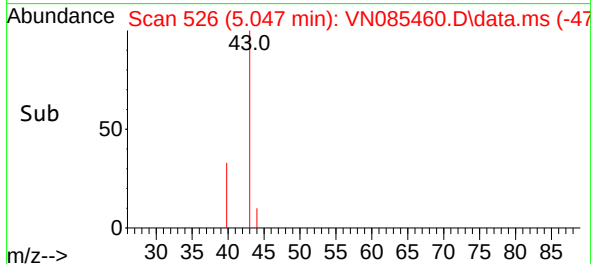
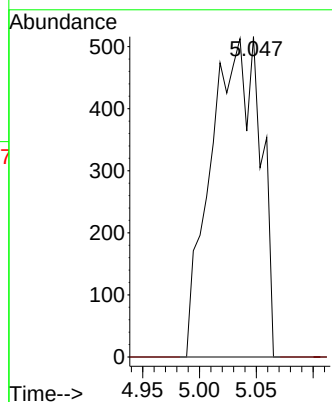
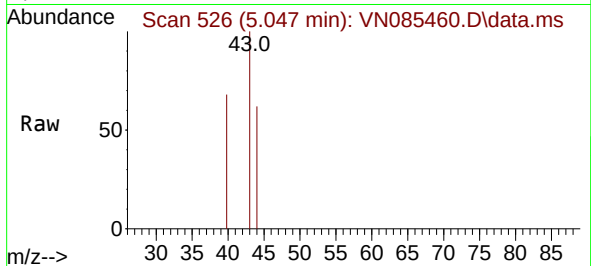




#18  
Methyl Acetate  
Concen: 0.540 ug/l  
RT: 5.047 min Scan# 51  
Delta R.T. 0.029 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

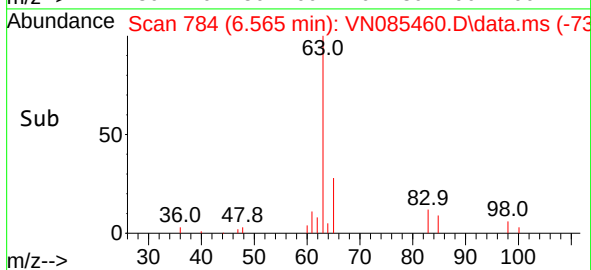
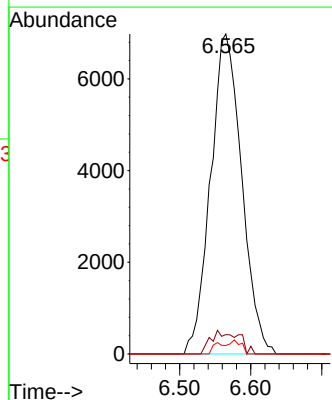
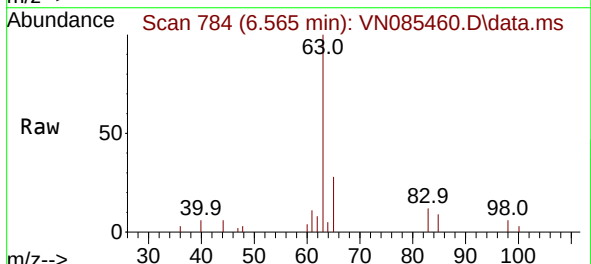
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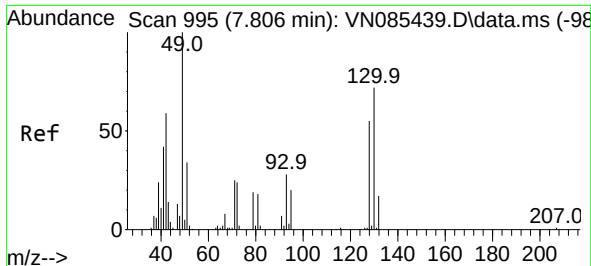
Tgt Ion: 43 Resp: 1550  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 28.0#



#24  
1,1-Dichloroethane  
Concen: 4.978 ug/l  
RT: 6.565 min Scan# 784  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 63 Resp: 21243  
Ion Ratio Lower Upper  
63 100  
98 6.1 3.3 9.8  
100 2.6 2.0 6.0

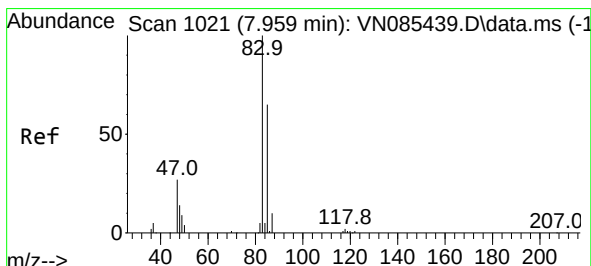
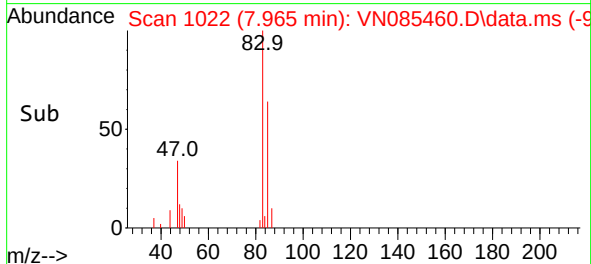
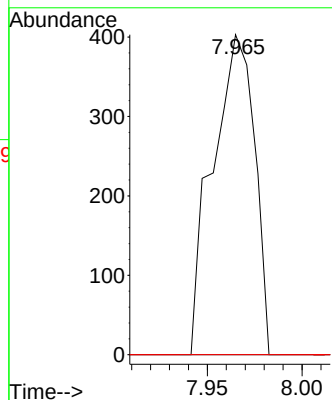
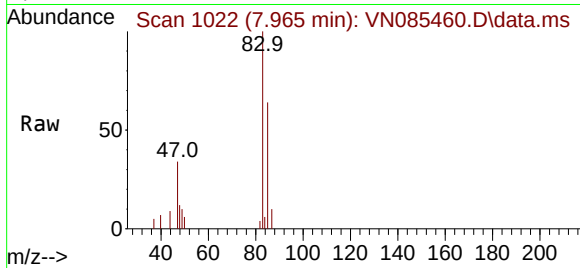




#28  
Bromochloromethane  
Concen: 0.313 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. 0.159 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

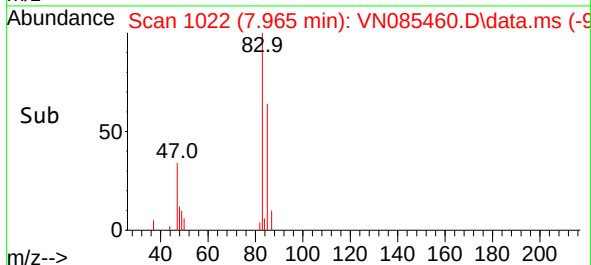
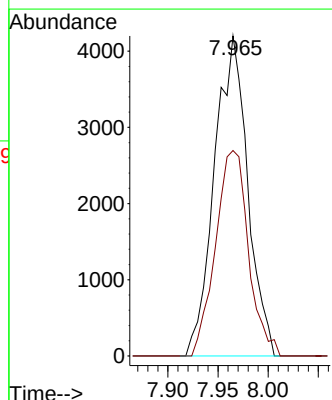
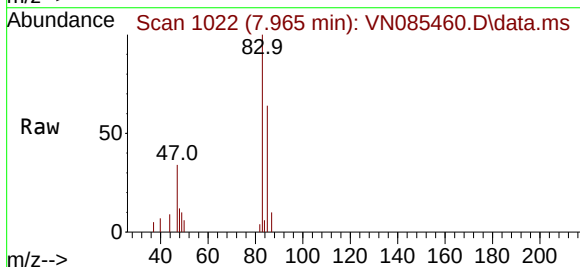
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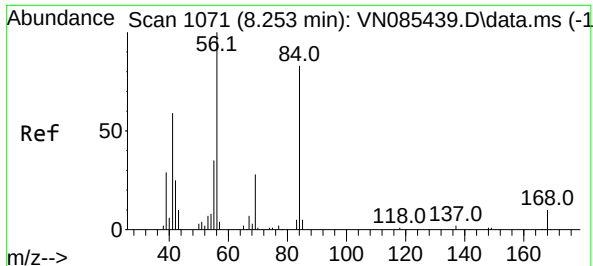
Tgt Ion: 49 Resp: 621  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.4  
130 0.0 55.0 82.4#



#30  
Chloroform  
Concen: 2.191 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 83 Resp: 9663  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.8 77.6





#31

Cyclohexane

Concen: 1.419 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085460.D

Acq: 15 Jan 2025 14:37

Instrument :

MSVOA\_N

ClientSampleId :

RW7B-CARBON-20250109

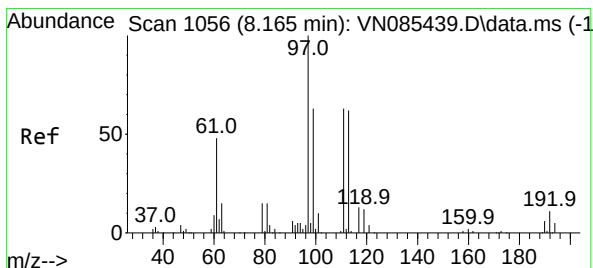
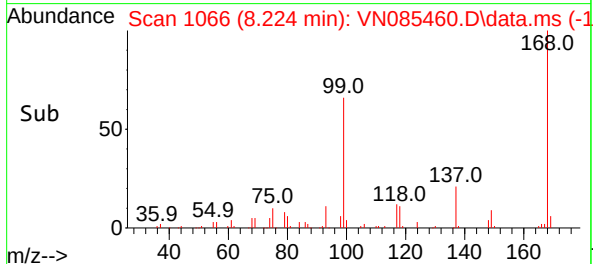
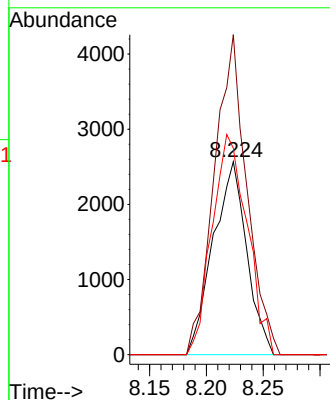
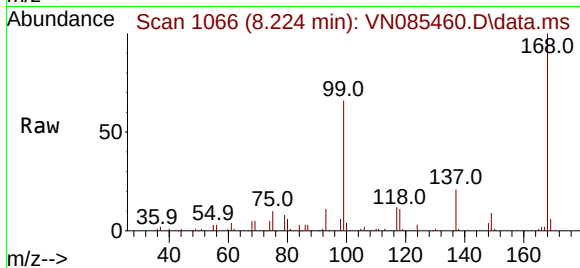
Tgt Ion: 56 Resp: 5265

Ion Ratio Lower Upper

56 100

69 165.8 22.2 33.4#

84 114.8 66.4 99.6#



#32

1,1,1-Trichloroethane

Concen: 0.931 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085460.D

Acq: 15 Jan 2025 14:37

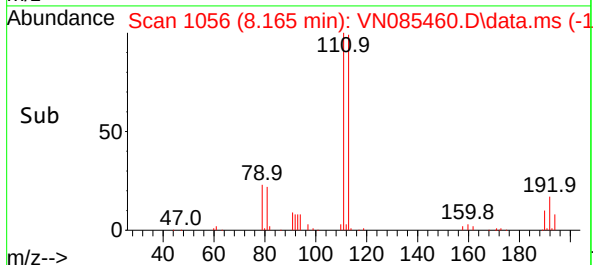
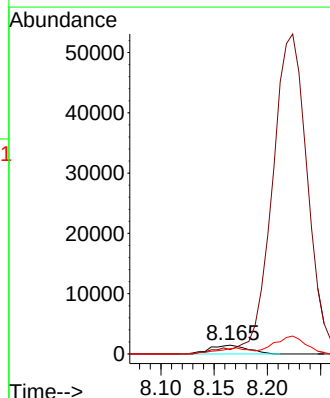
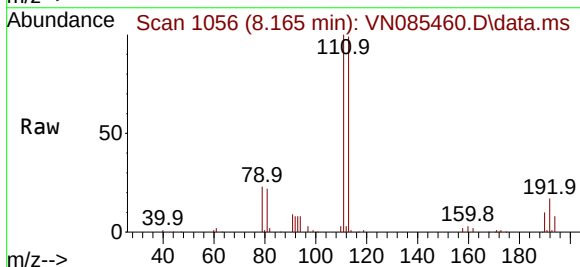
Tgt Ion: 97 Resp: 3600

Ion Ratio Lower Upper

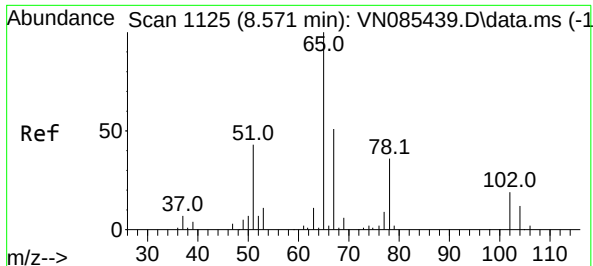
97 100

99 0.0 49.8 74.6#

61 59.4 41.4 62.2







#33

1,2-Dichloroethane-d4

Concen: 55.699 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085460.D

Acq: 15 Jan 2025 14:37

Instrument :

MSVOA\_N

ClientSampleId :

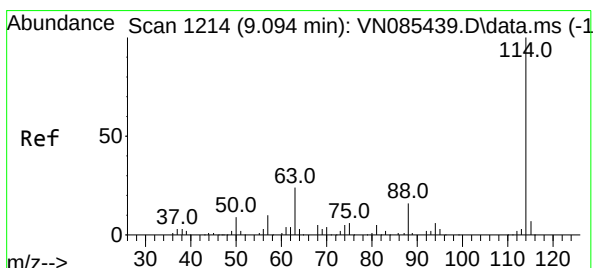
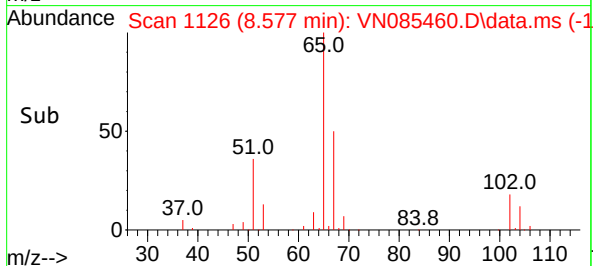
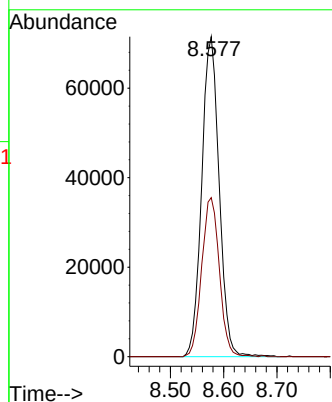
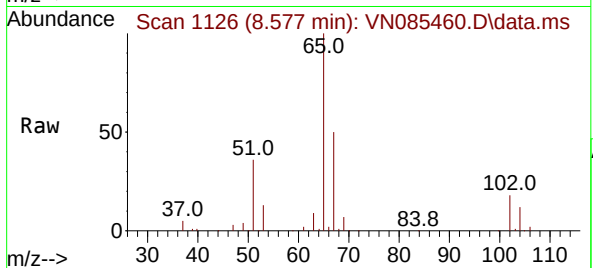
RW7B-CARBON-20250109

Tgt Ion: 65 Resp: 162792

Ion Ratio Lower Upper

65 100

67 50.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085460.D

Acq: 15 Jan 2025 14:37

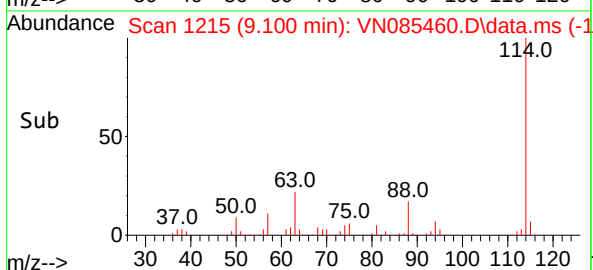
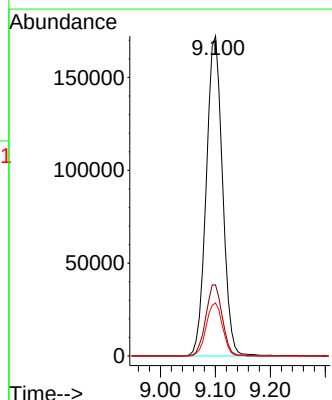
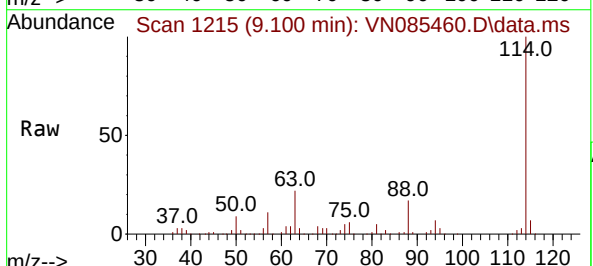
Tgt Ion: 114 Resp: 354107

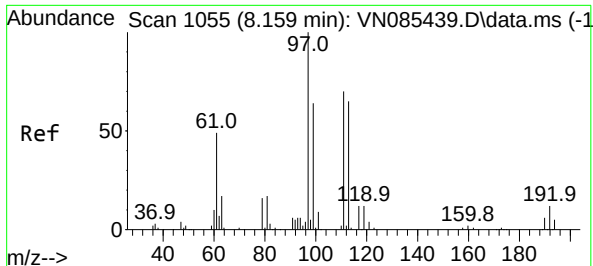
Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.6

88 16.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.742 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085460.D

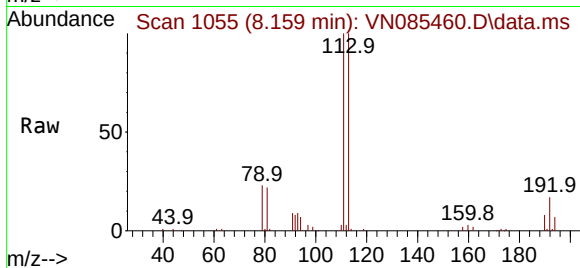
Acq: 15 Jan 2025 14:37

Instrument :

MSVOA\_N

ClientSampleId :

RW7B-CARBON-20250109



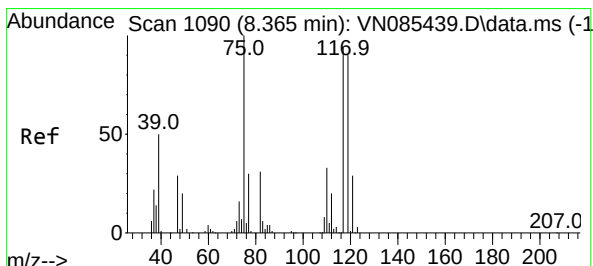
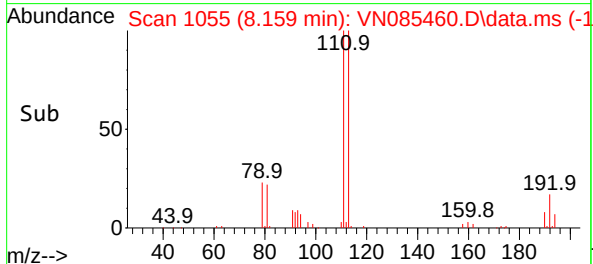
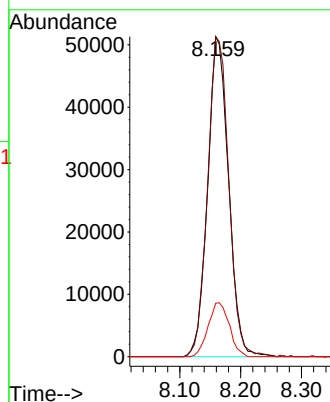
Tgt Ion:113 Resp: 122198

Ion Ratio Lower Upper

113 100

111 101.4 82.7 124.1

192 17.1 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.239 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085460.D

Acq: 15 Jan 2025 14:37

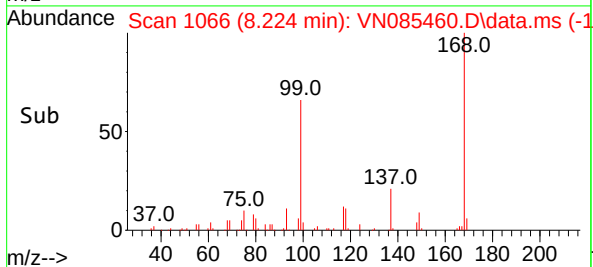
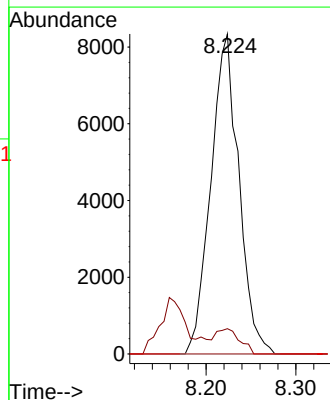
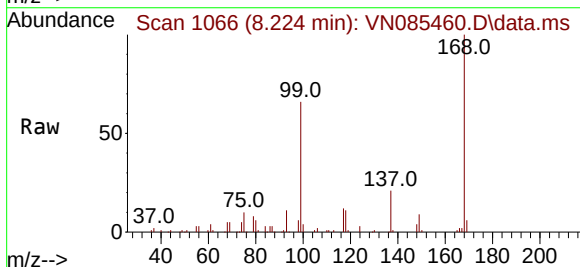
Tgt Ion: 75 Resp: 18064

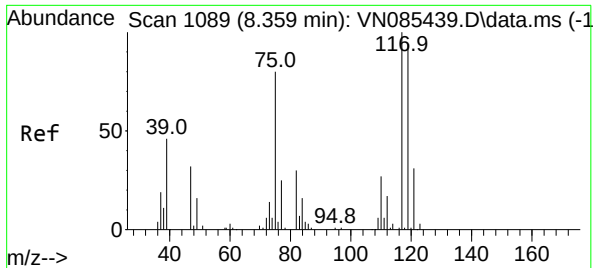
Ion Ratio Lower Upper

75 100

110 6.5 16.5 49.5#

77 0.0 24.4 36.6#

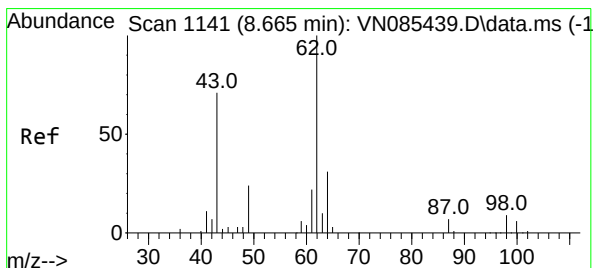
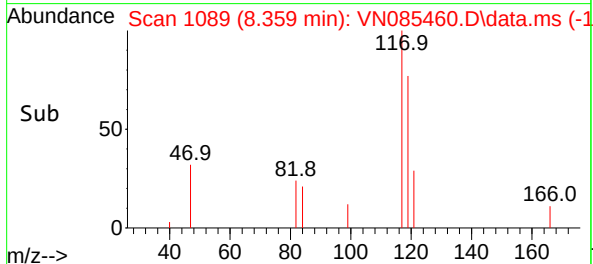
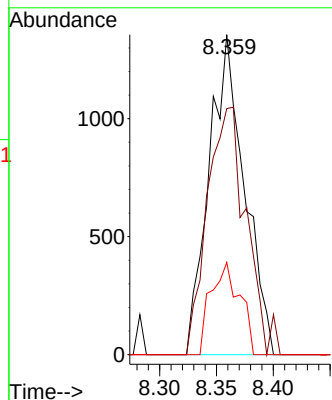
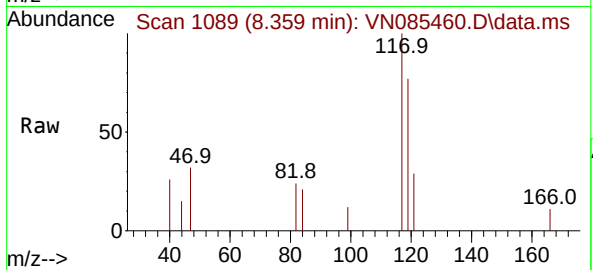




#38  
Carbon Tetrachloride  
Concen: 0.745 ug/l  
RT: 8.359 min Scan# 1107  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

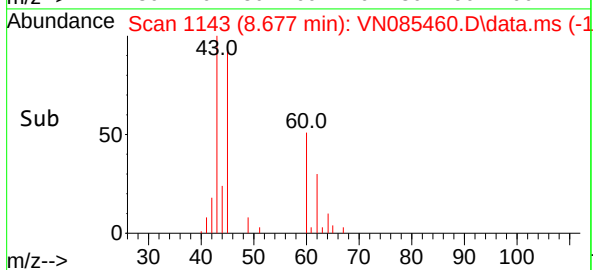
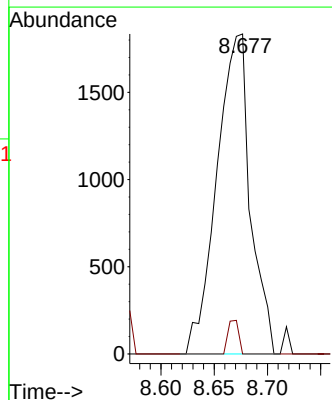
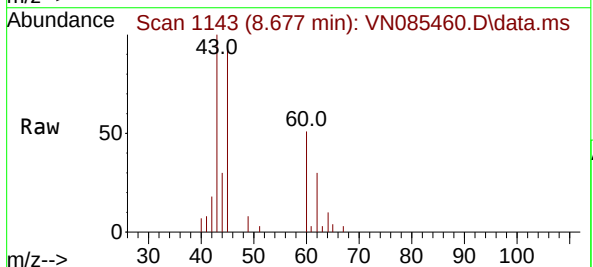
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

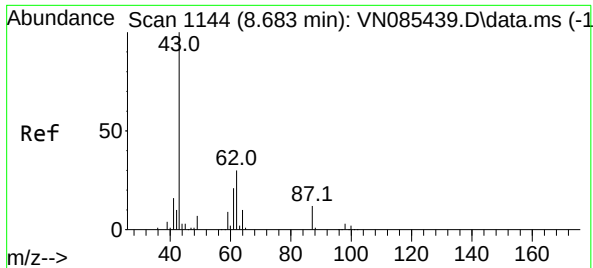
Tgt Ion:117 Resp: 2942  
Ion Ratio Lower Upper  
117 100  
119 76.9 75.4 113.2  
121 28.8 24.6 37.0



#42  
1,2-Dichloroethane  
Concen: 1.031 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.012 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 62 Resp: 4024  
Ion Ratio Lower Upper  
62 100  
98 3.3 0.0 17.0

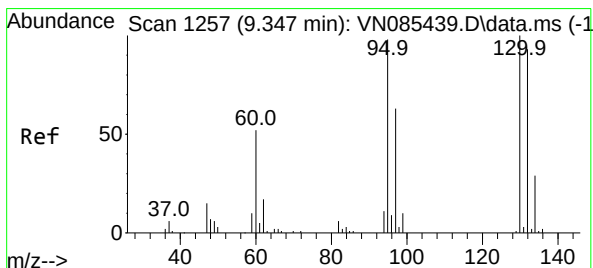
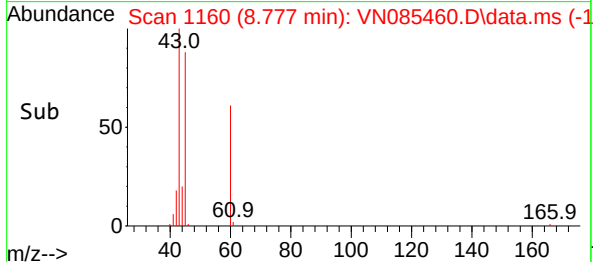
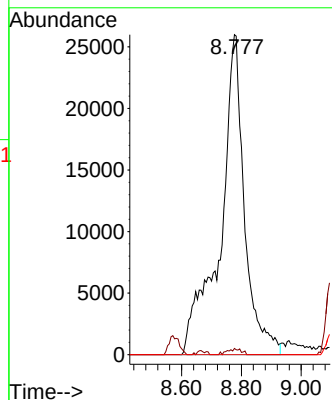
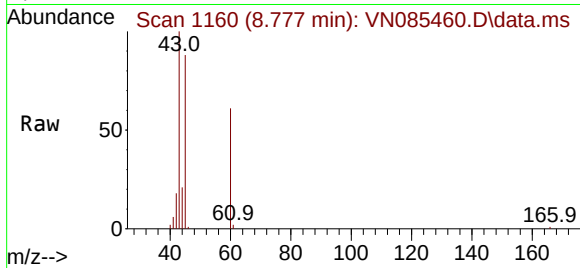




#43  
Isopropyl Acetate  
Concen: 26.288 ug/l  
RT: 8.777 min Scan# 1160  
Delta R.T. 0.094 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

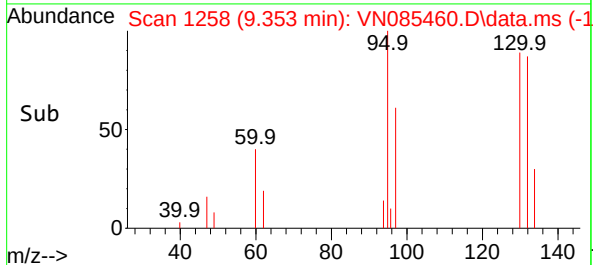
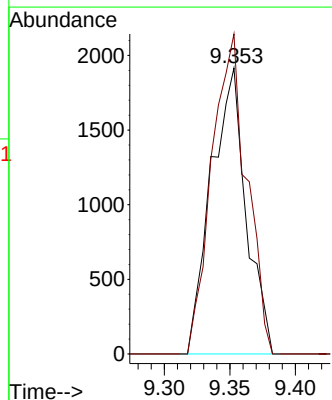
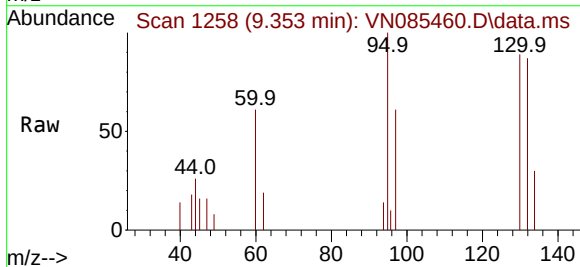
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

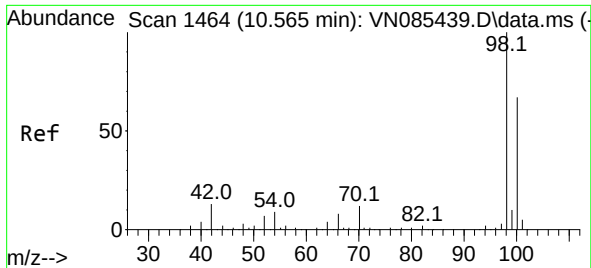
Tgt Ion: 43 Resp: 146591  
Ion Ratio Lower Upper  
43 100  
61 1.1 20.7 31.1#  
87 0.0 9.8 14.8#



#44  
Trichloroethene  
Concen: 1.474 ug/l  
RT: 9.353 min Scan# 1258  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion:130 Resp: 3555  
Ion Ratio Lower Upper  
130 100  
95 111.9 0.0 195.8

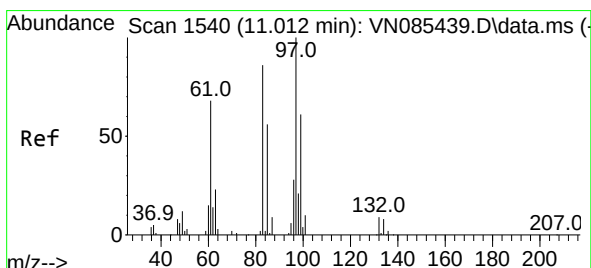
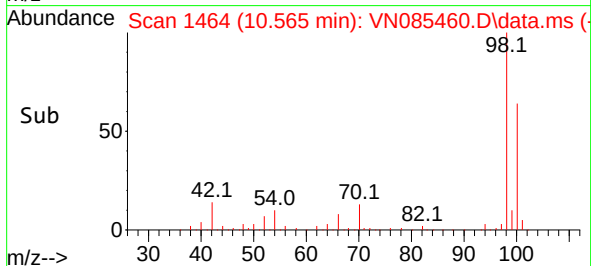
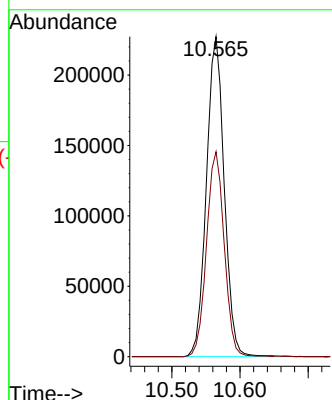
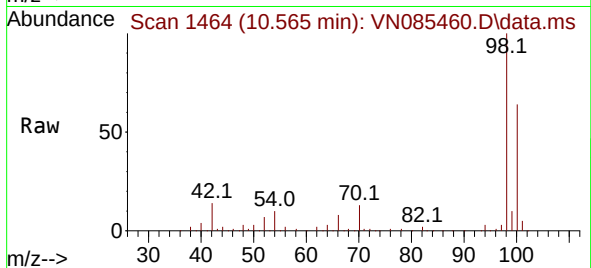




#50  
Toluene-d8  
Concen: 47.371 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

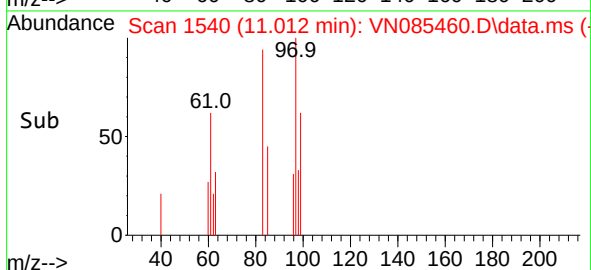
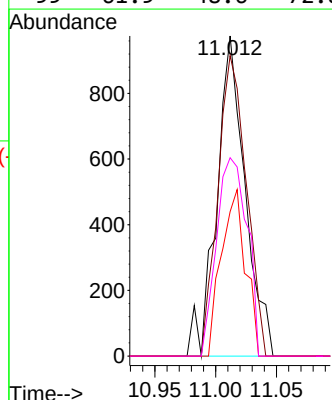
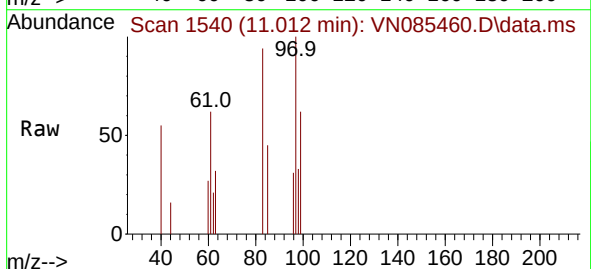
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

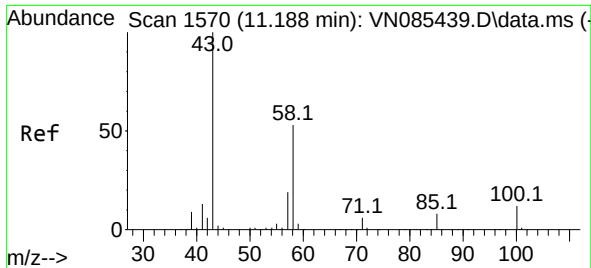
Tgt Ion: 98 Resp: 413472  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.2 78.4



#55  
1,1,2-Trichloroethane  
Concen: 0.668 ug/l  
RT: 11.012 min Scan# 1540  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 97 Resp: 1586  
Ion Ratio Lower Upper  
97 100  
83 93.8 69.0 103.6  
85 45.1 44.6 66.8  
99 61.9 48.6 72.8

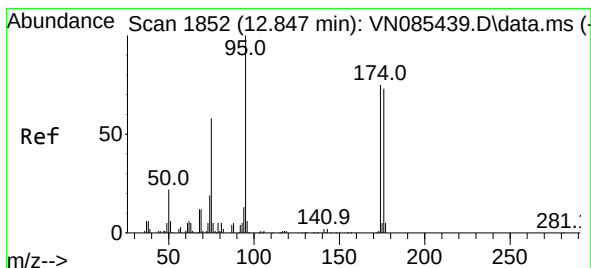
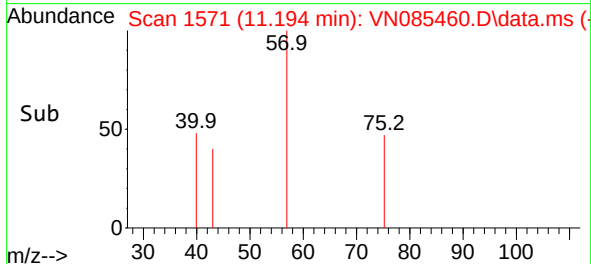
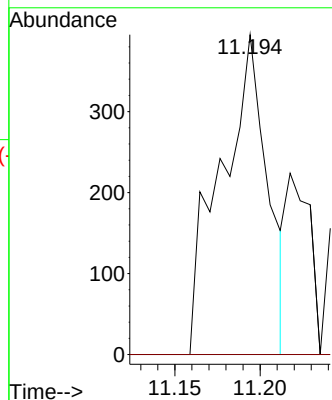
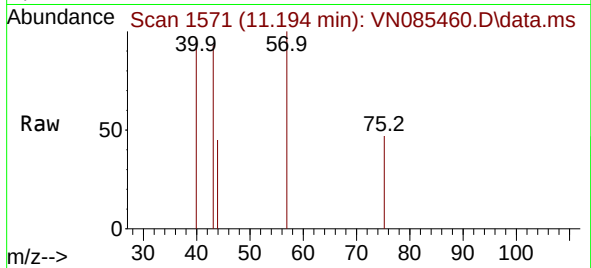




#59  
2-Hexanone  
Concen: 0.331 ug/l  
RT: 11.194 min Scan# 111  
Delta R.T. 0.006 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

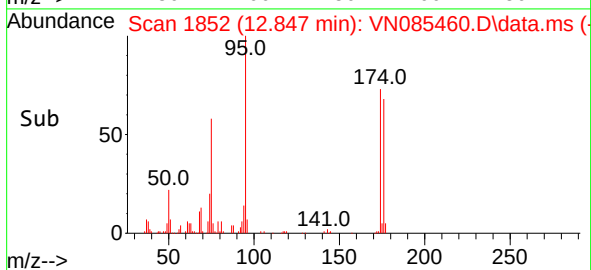
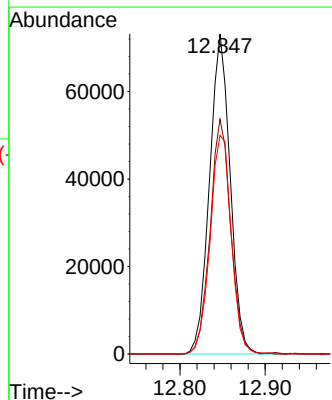
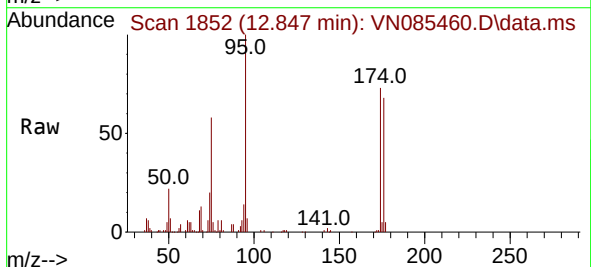
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

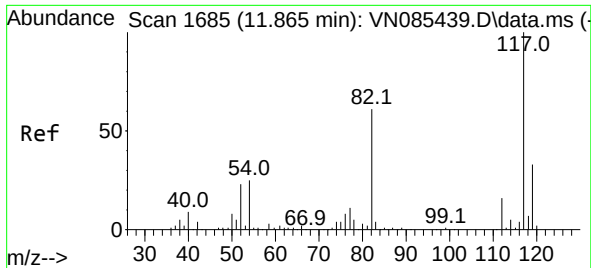
Tgt Ion: 43 Resp: 753  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.6#



#62  
4-Bromofluorobenzene  
Concen: 41.146 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion: 95 Resp: 122853  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 145.0  
176 70.2 0.0 142.4

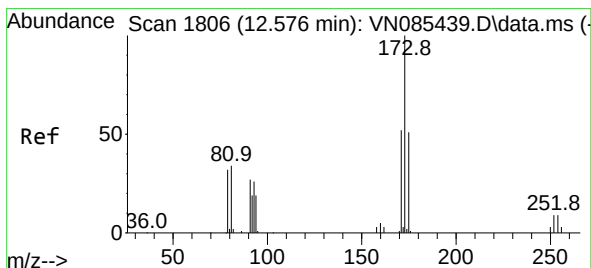
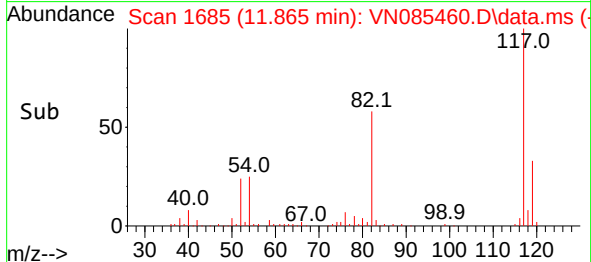
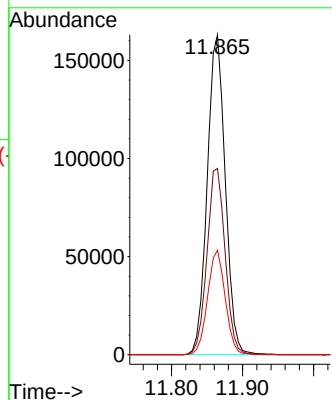
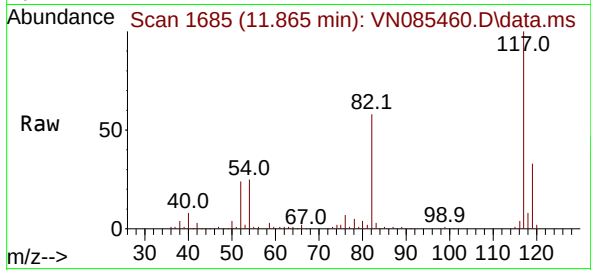




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

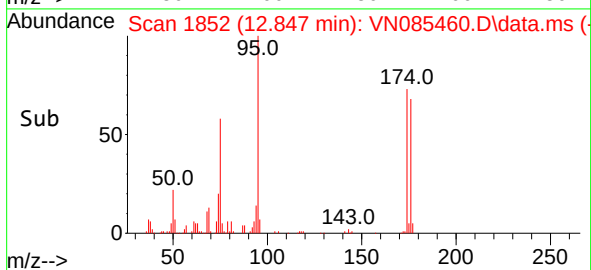
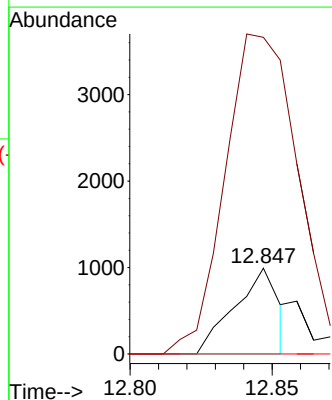
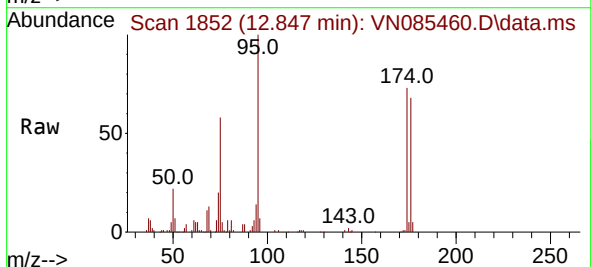
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW7B-CARBON-20250109

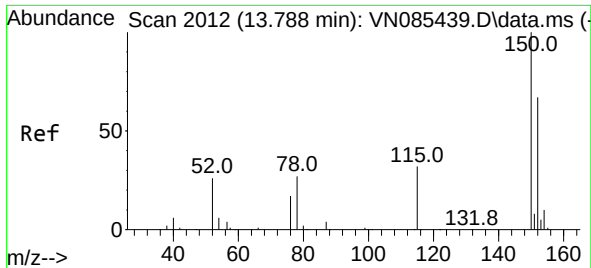
Tgt Ion:117 Resp: 288035  
Ion Ratio Lower Upper  
117 100  
82 58.2 48.6 72.8  
119 32.7 26.6 39.8



#71  
Bromoform  
Concen: 0.646 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN085460.D  
Acq: 15 Jan 2025 14:37

Tgt Ion:173 Resp: 1071  
Ion Ratio Lower Upper  
173 100  
175 489.6 24.4 73.2#  
254 0.0 0.0 0.0

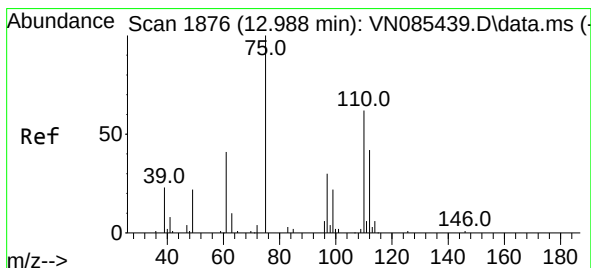
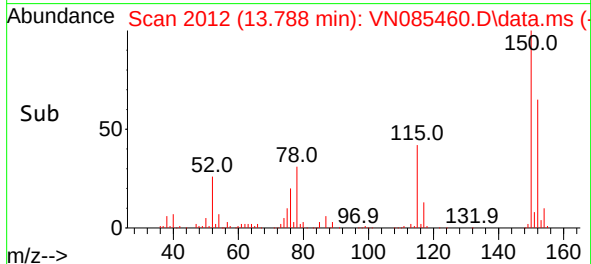
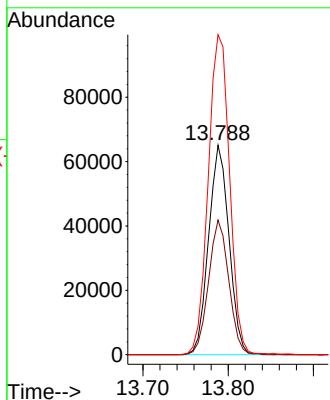
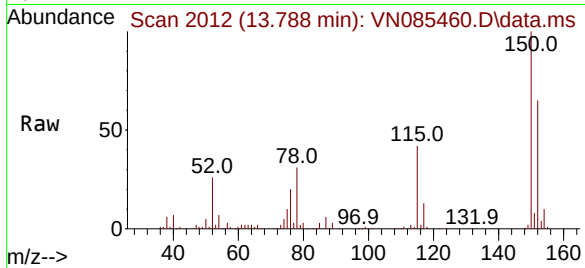




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 2012  
 Delta R.T. -0.000 min  
 Lab File: VN085460.D  
 Acq: 15 Jan 2025 14:37

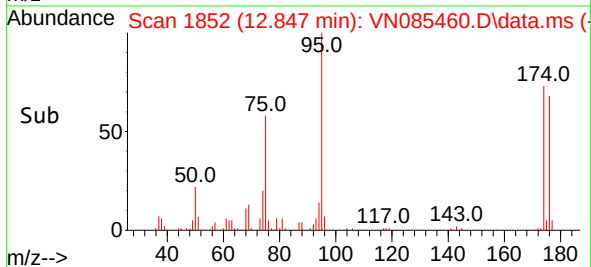
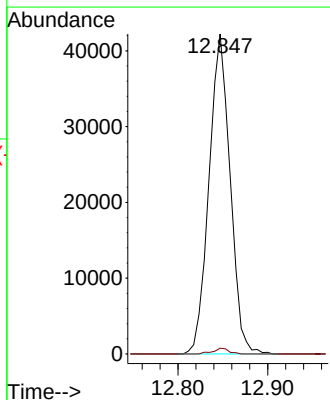
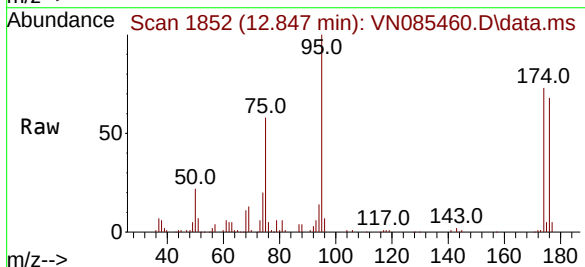
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW7B-CARBON-20250109

Tgt Ion:152 Resp: 108344  
 Ion Ratio Lower Upper  
 152 100  
 115 63.7 31.1 93.3  
 150 159.7 0.0 343.6

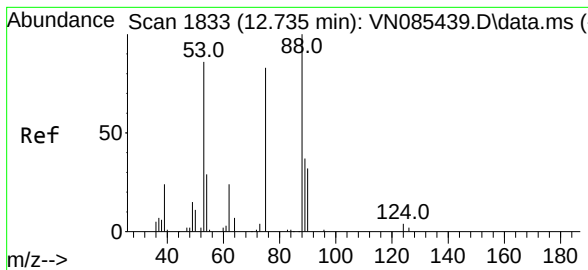


#76  
 1,2,3-Trichloropropane  
 Concen: 31.333 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN085460.D  
 Acq: 15 Jan 2025 14:37

Tgt Ion: 75 Resp: 68999  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 109.7 329.2#







#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 84.774 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN085460.D  
 Acq: 15 Jan 2025 14:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW7B-CARBON-20250109

Tgt Ion: 75 Resp: 68999  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 95.6 143.4#  
 89 0.0 37.0 55.6#

