

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080824\  
 Data File : VN083162.D  
 Acq On : 08 Aug 2024 17:47  
 Operator : JC\MD  
 Sample : P3393-22ME  
 Misc : 7.97g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 21 Sample Multiplier: 1

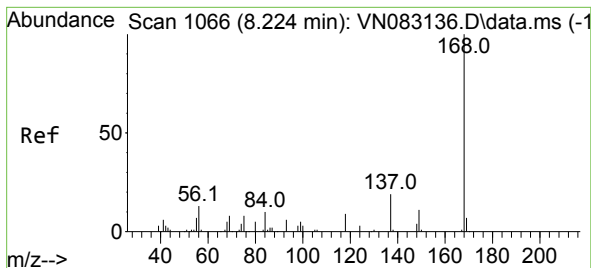
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 09 01:07:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.218  | 168   | 134377   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 251873   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 255994   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 118876   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 106187   | 55.517   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 111.040% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 83878    | 53.353   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 106.700% |          |
| 50) Toluene-d8                | 10.565 | 98    | 327352   | 55.820   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 111.640% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 134530   | 58.842   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | = 117.680% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 5) Bromomethane               | 2.959  | 94    | 315      | 0.319    | ug/l #     | 53       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.342  | 101   | 1739     | 1.199    | ug/l       | 93       |
| 11) Tert butyl alcohol        | 5.495  | 59    | 2590     | 6.516    | ug/l #     | 71       |
| 13) Acrolein                  | 4.165  | 56    | 62       | 0.239    | ug/l #     | 1        |
| 16) Acetone                   | 4.430  | 43    | 544      | 0.727    | ug/l #     | 48       |
| 17) Carbon Disulfide          | 4.671  | 76    | 1359     | 0.312    | ug/l #     | 75       |
| 18) Methyl Acetate            | 5.030  | 43    | 1438     | 0.645    | ug/l #     | 56       |
| 20) Methylene Chloride        | 5.265  | 84    | 2359     | 1.370    | ug/l #     | 64       |
| 25) 2-Butanone                | 7.453  | 43    | 325      | 0.283    | ug/l #     | 53       |
| 27) cis-1,2-Dichloroethene    | 7.483  | 96    | 2961     | 1.594    | ug/l       | 89       |
| 31) Cyclohexane               | 8.224  | 56    | 3153     | 1.112    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 11701    | 4.920    | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 14647    | 5.468    | ug/l #     | 16       |
| 39) Methylcyclohexane         | 9.347  | 83    | 1586     | 0.543    | ug/l #     | 1        |
| 43) Isopropyl Acetate         | 8.659  | 43    | 9748     | 0.512    | ug/l #     | 60       |
| 44) Trichloroethene           | 9.353  | 130   | 117290   | 69.554   | ug/l       | 96       |
| 53) t-1,3-Dichloropropene     | 10.700 | 75    | 1357     | 0.489    | ug/l #     | 75       |
| 60) Dibromochloromethane      | 11.100 | 129   | 711      | 0.367    | ug/l #     | 10       |
| 64) Tetrachloroethene         | 11.100 | 164   | 683      | 0.403    | ug/l #     | 63       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 73912    | 28.329   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 73912    | 61.623   | ug/l #     | 6        |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN083162.D

Acq: 08 Aug 2024 17:47

Instrument :

MSVOA\_N

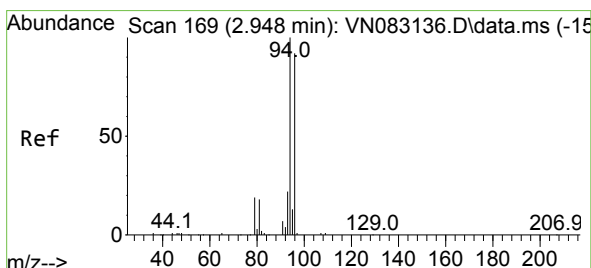
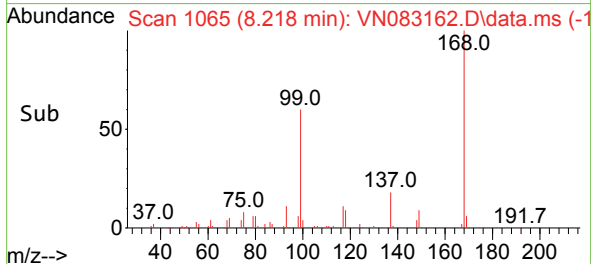
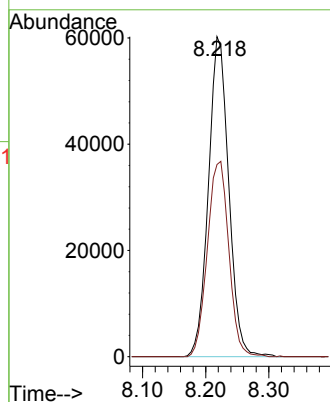
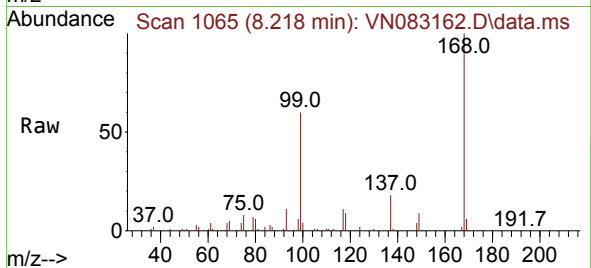
ClientSampleId :

Tgt Ion:168 Resp: 134377

Ion Ratio Lower Upper

168 100

99 60.1 48.2 72.4



#5

Bromomethane

Concen: 0.319 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.012 min

Lab File: VN083162.D

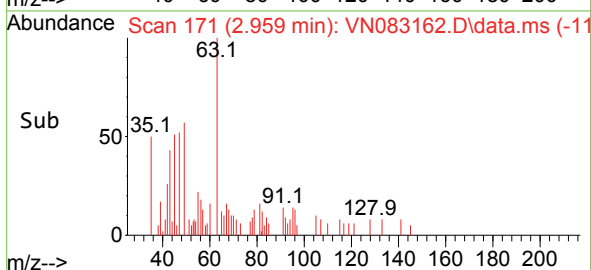
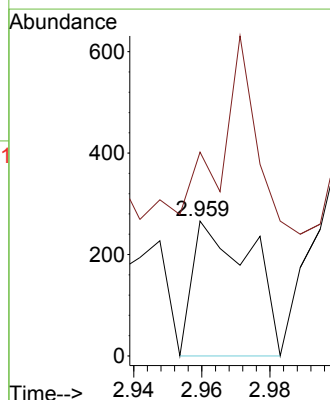
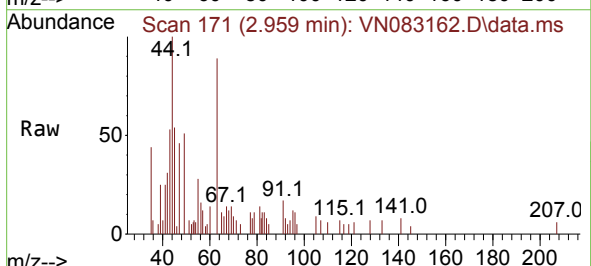
Acq: 08 Aug 2024 17:47

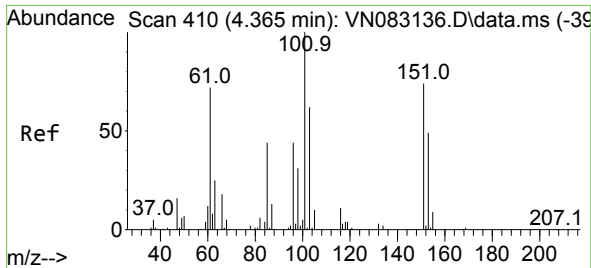
Tgt Ion: 94 Resp: 315

Ion Ratio Lower Upper

94 100

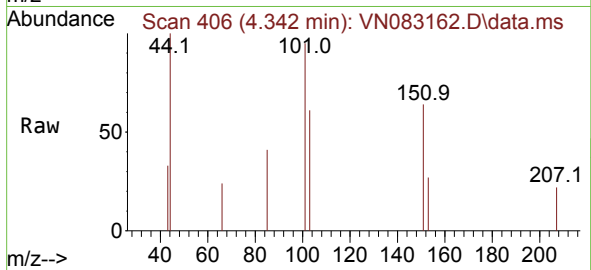
96 51.1 78.0 117.0#



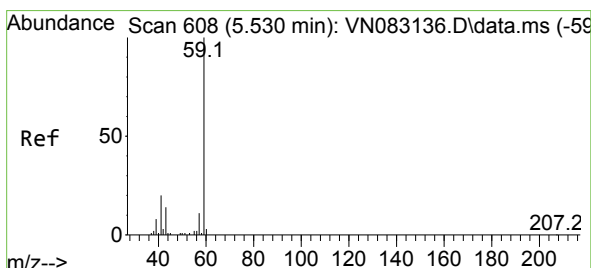
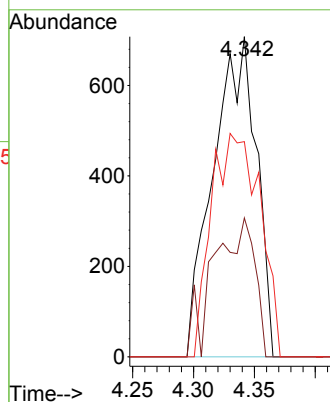
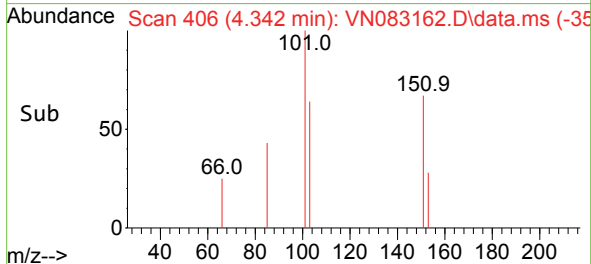


#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.199 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. -0.023 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

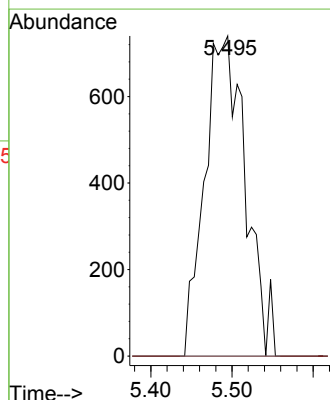
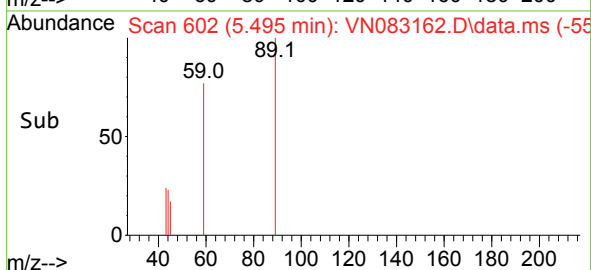
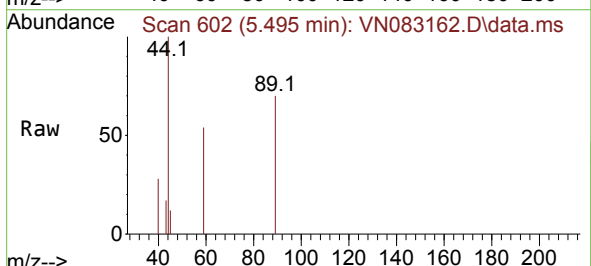


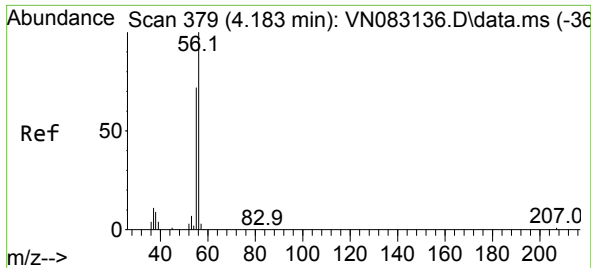
Tgt Ion:101 Resp: 1739  
Ion Ratio Lower Upper  
101 100  
85 41.1 38.3 57.5  
151 79.0 59.3 88.9



#11  
Tert butyl alcohol  
Concen: 6.516 ug/l  
RT: 5.495 min Scan# 602  
Delta R.T. -0.035 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

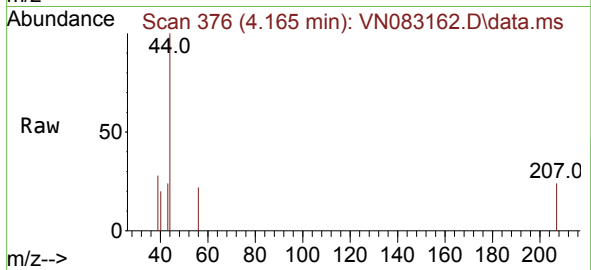
Tgt Ion: 59 Resp: 2590  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#



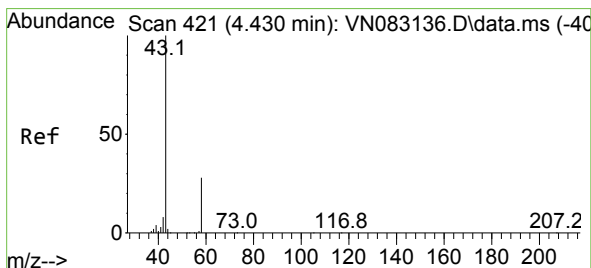
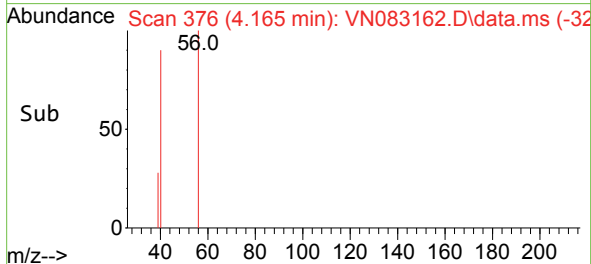
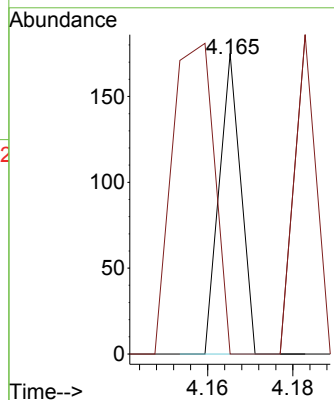


#13  
Acrolein  
Concen: 0.239 ug/l  
RT: 4.165 min Scan# 31  
Delta R.T. -0.018 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

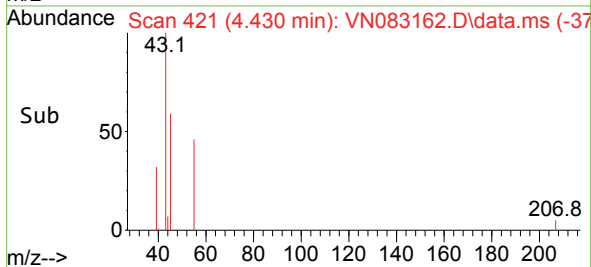
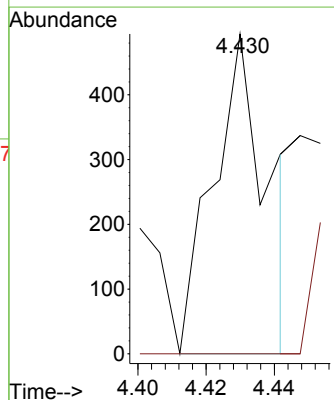
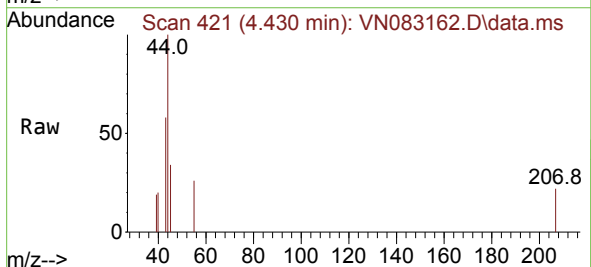


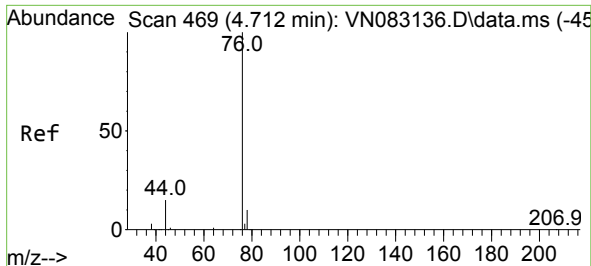
Tgt Ion: 56 Resp: 62  
Ion Ratio Lower Upper  
56 100  
55 200.0 56.4 84.6#



#16  
Acetone  
Concen: 0.727 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.000 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Tgt Ion: 43 Resp: 544  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.8 32.6#

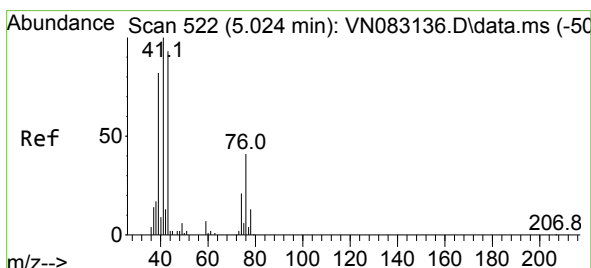
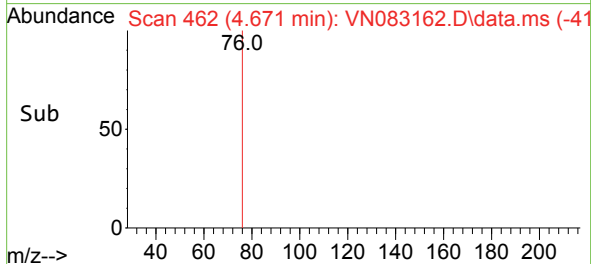
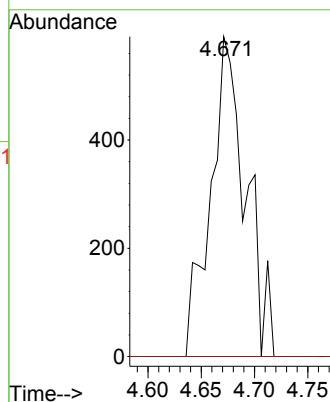
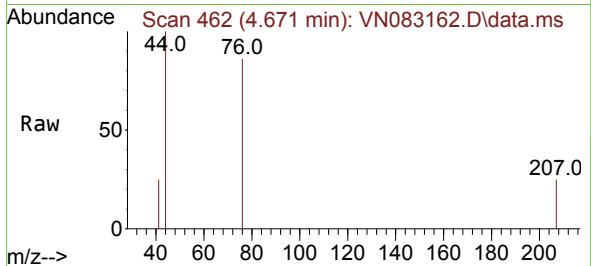




#17  
Carbon Disulfide  
Concen: 0.312 ug/l  
RT: 4.671 min Scan# 41  
Delta R.T. -0.041 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

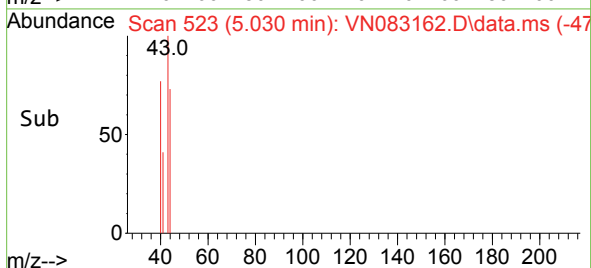
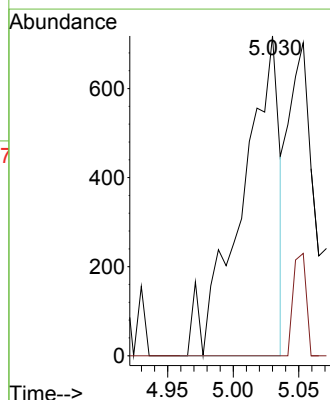
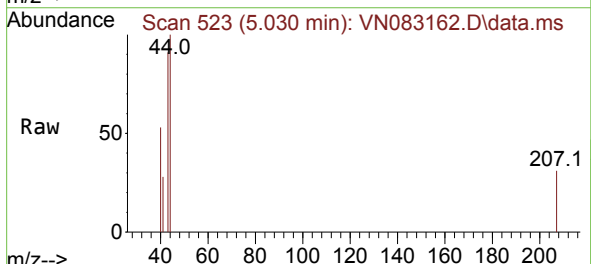
Instrument :  
MSVOA\_N  
ClientSampleId :

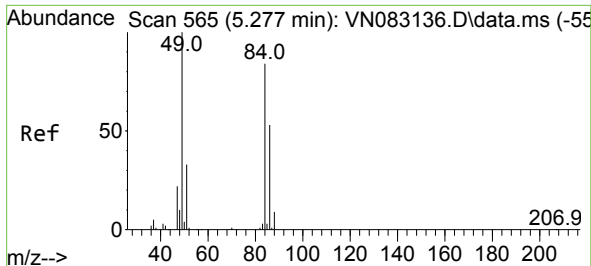
Tgt Ion: 76 Resp: 1359  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.645 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

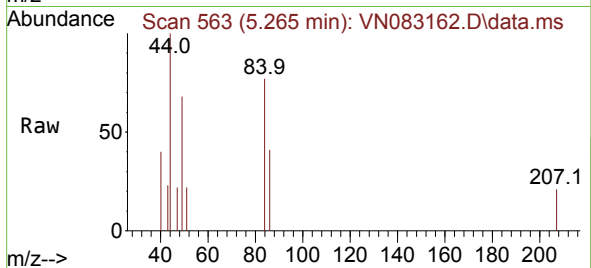
Tgt Ion: 43 Resp: 1438  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.3 24.5#



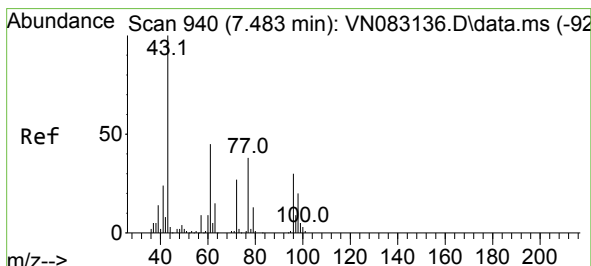
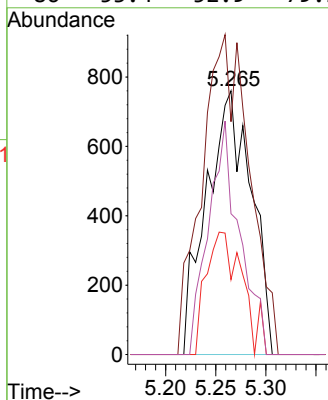
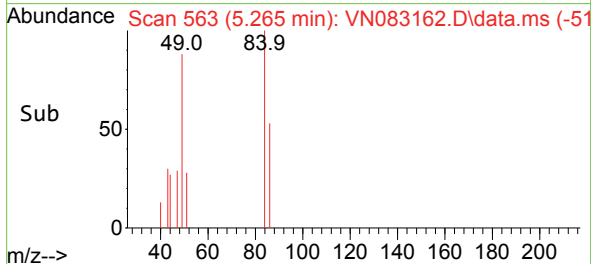


#20  
Methylene Chloride  
Concen: 1.370 ug/l  
RT: 5.265 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

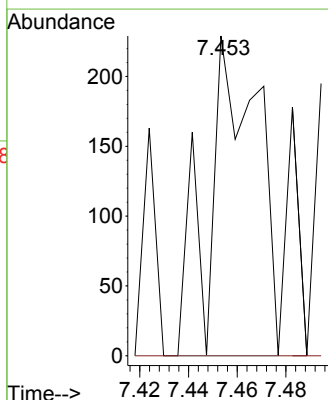
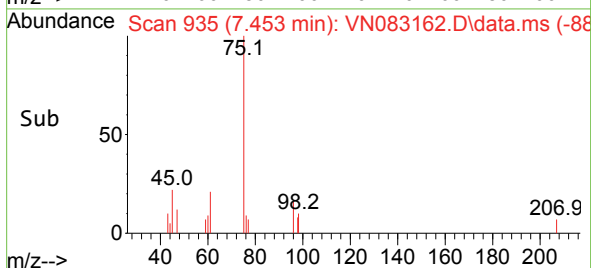
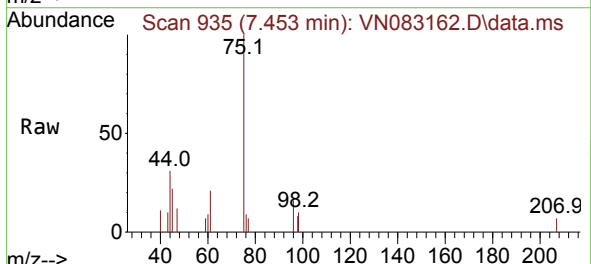


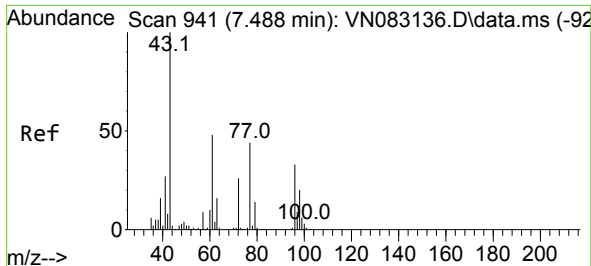
Tgt Ion: 84 Resp: 2359  
Ion Ratio Lower Upper  
84 100  
49 88.3 119.6 179.4#  
51 28.4 34.8 52.2#  
86 53.4 52.9 79.3



#25  
2-Butanone  
Concen: 0.283 ug/l  
RT: 7.453 min Scan# 935  
Delta R.T. -0.029 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

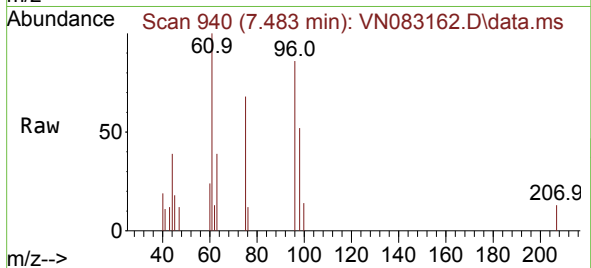
Tgt Ion: 43 Resp: 325  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.2 27.2#



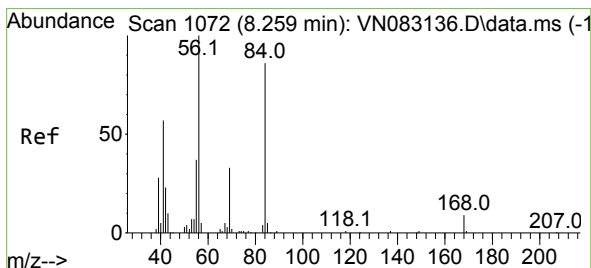
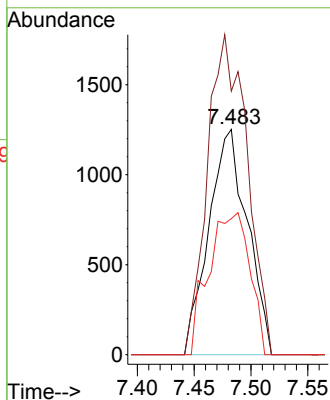
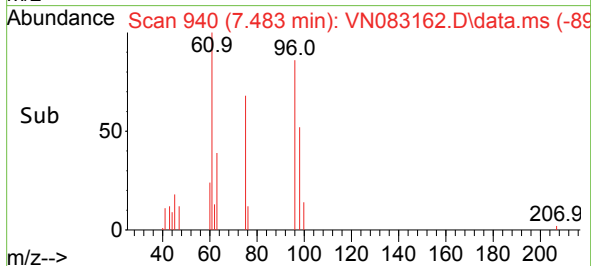


#27  
 cis-1,2-Dichloroethene  
 Concen: 1.594 ug/l  
 RT: 7.483 min Scan# 941  
 Delta R.T. -0.006 min  
 Lab File: VN083162.D  
 Acq: 08 Aug 2024 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :

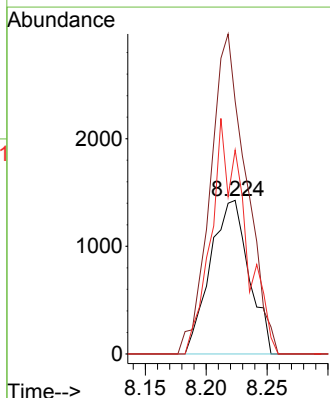
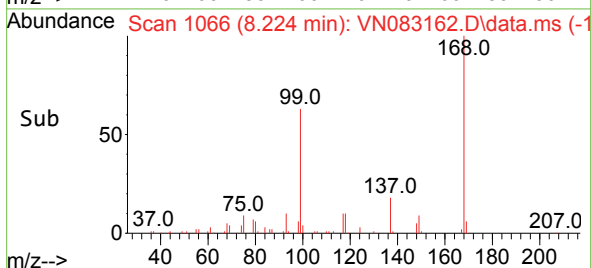
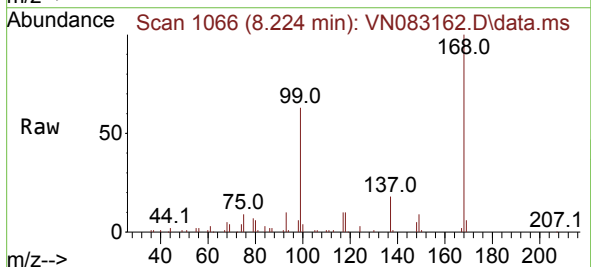


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2961  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 146.4 | 0.0   | 329.6 |
| 98       | 67.3  | 0.0   | 128.6 |

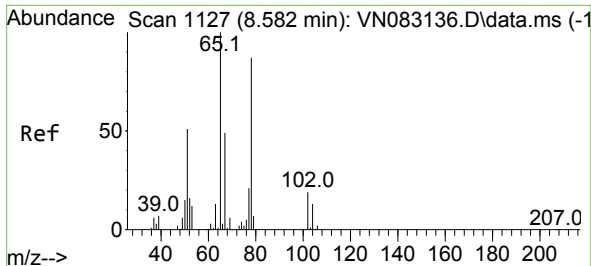


#31  
 Cyclohexane  
 Concen: 1.112 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.035 min  
 Lab File: VN083162.D  
 Acq: 08 Aug 2024 17:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3153  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 164.6 | 24.5  | 36.7# |
| 84       | 132.9 | 66.0  | 99.0# |







#33

1,2-Dichloroethane-d4

Concen: 55.517 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

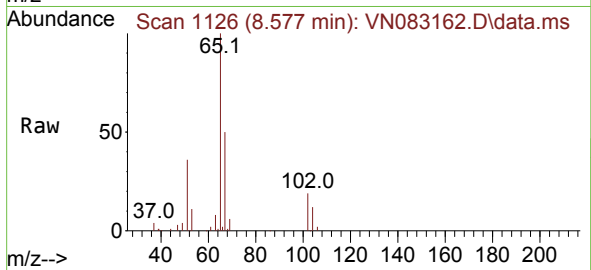
Lab File: VN083162.D

Acq: 08 Aug 2024 17:47

Instrument :

MSVOA\_N

ClientSampleId :

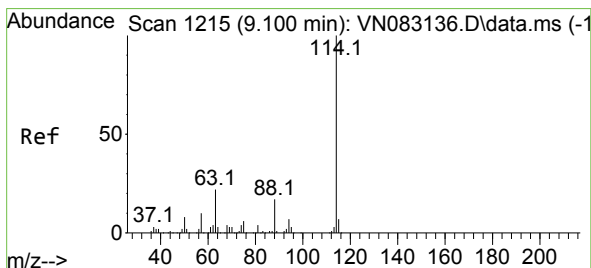
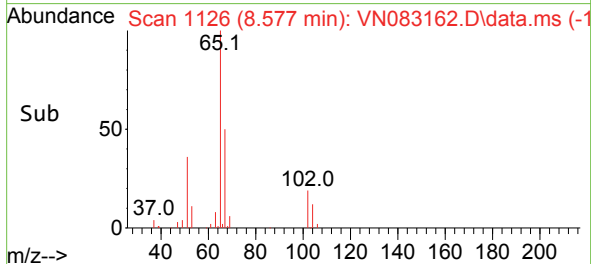
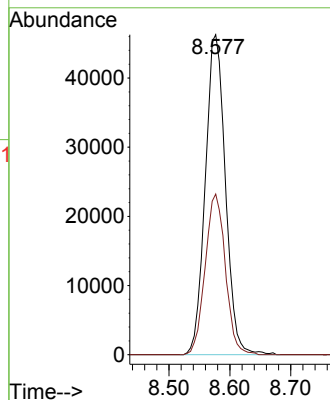


Tgt Ion: 65 Resp: 106187

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083162.D

Acq: 08 Aug 2024 17:47

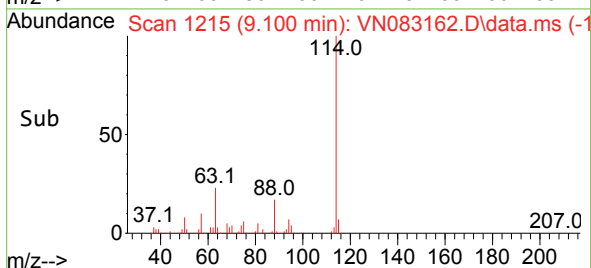
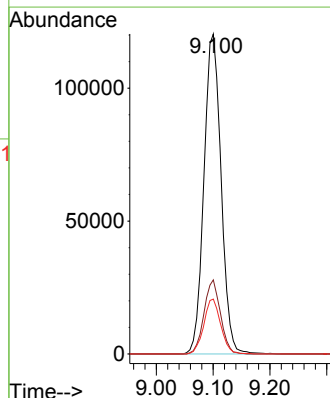
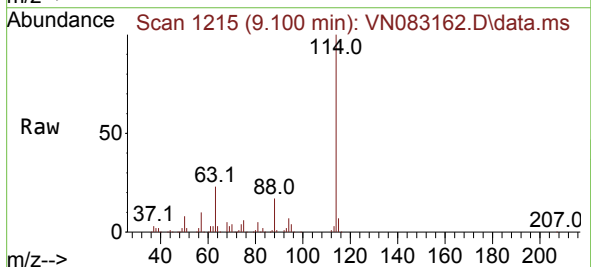
Tgt Ion: 114 Resp: 251873

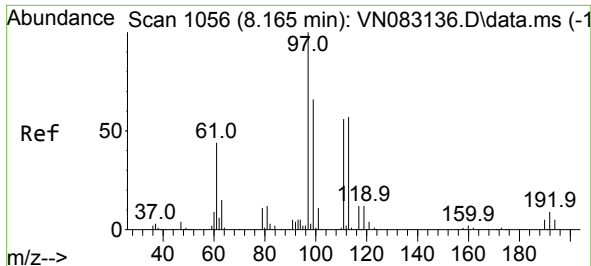
Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.6

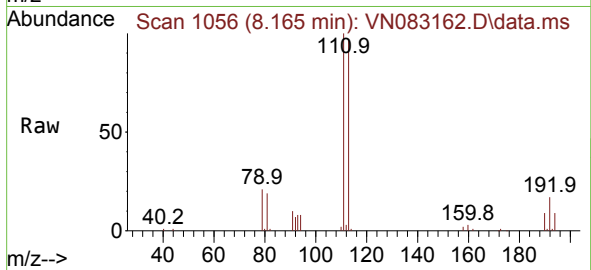
88 17.2 0.0 31.4



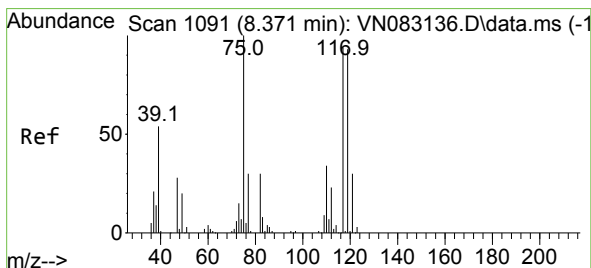
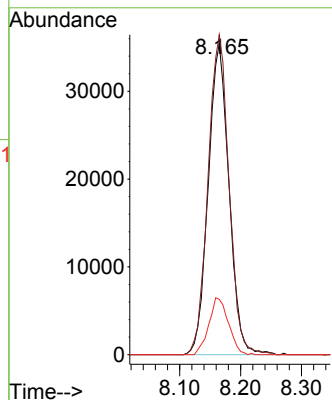
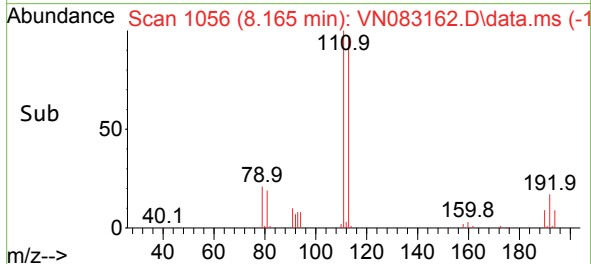


#35  
Dibromofluoromethane  
Concen: 53.353 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

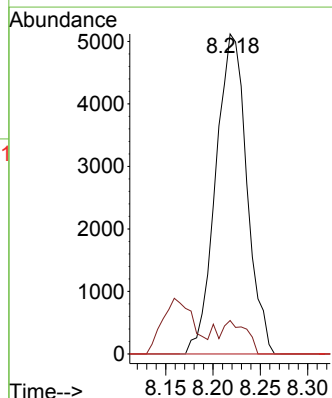
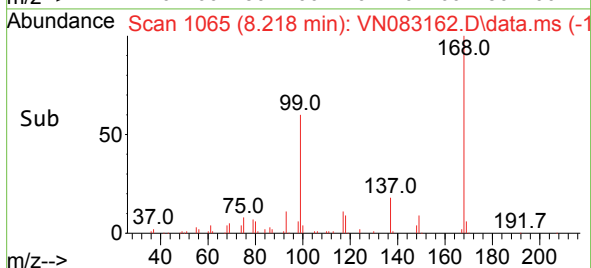
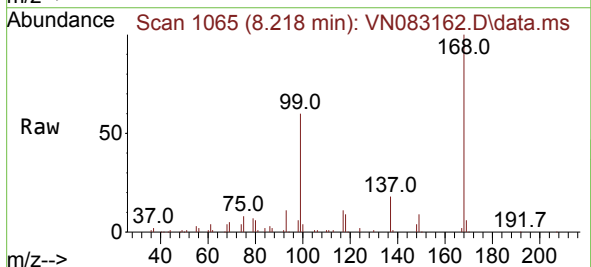


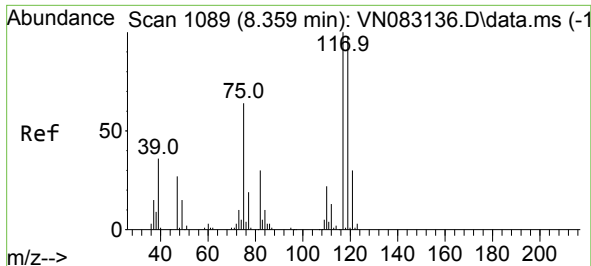
Tgt Ion:113 Resp: 83878  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.4 123.6  
192 17.3 14.9 22.3



#36  
1,1-Dichloropropene  
Concen: 4.920 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.153 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

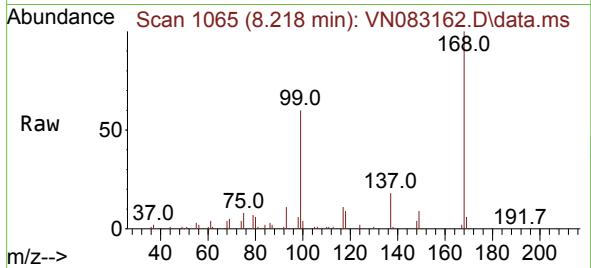
Tgt Ion: 75 Resp: 11701  
Ion Ratio Lower Upper  
75 100  
110 9.7 16.3 48.9#  
77 0.0 24.6 37.0#



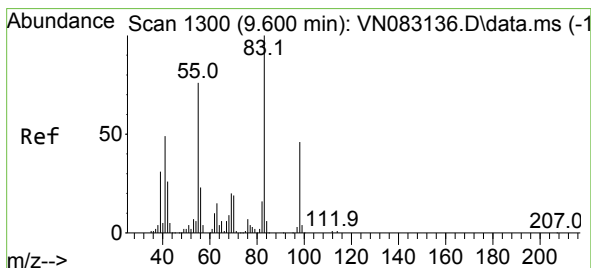
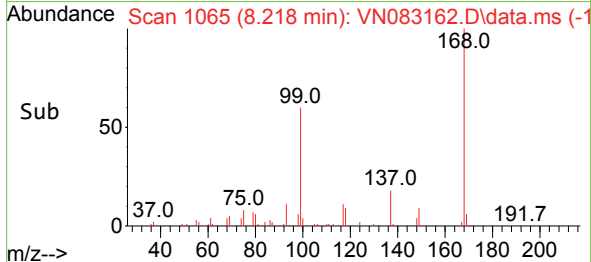
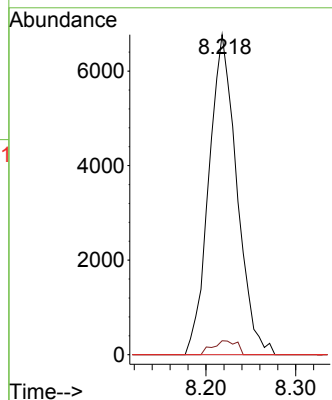


#38  
Carbon Tetrachloride  
Concen: 5.468 ug/l  
RT: 8.218 min Scan# 117  
Delta R.T. -0.141 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

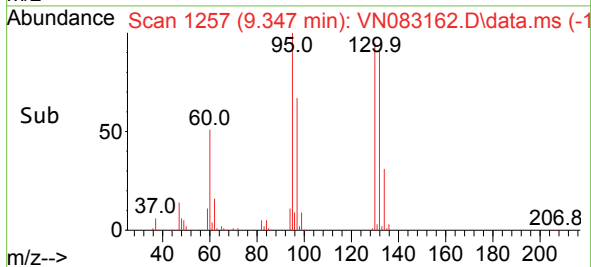
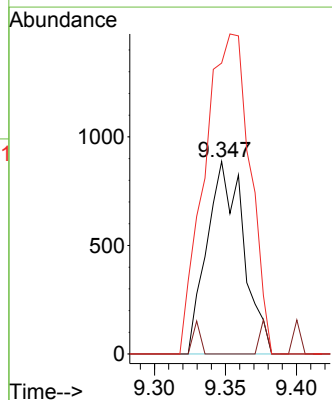
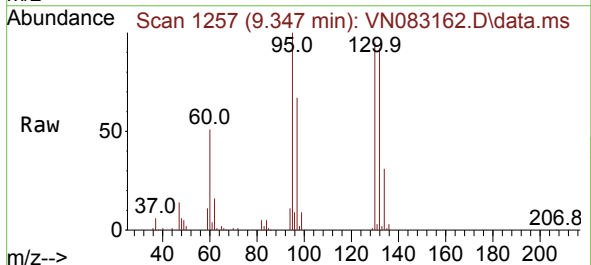


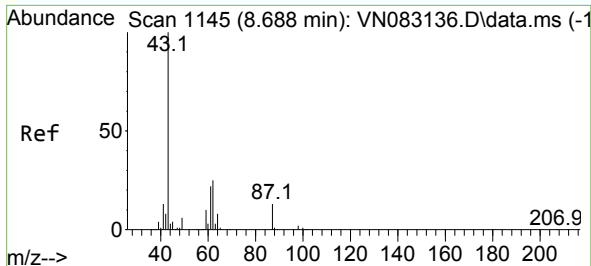
Tgt Ion: 117 Resp: 14647  
Ion Ratio Lower Upper  
117 100  
119 4.3 74.9 112.3#  
121 0.0 24.3 36.5#



#39  
Methylcyclohexane  
Concen: 0.543 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.253 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

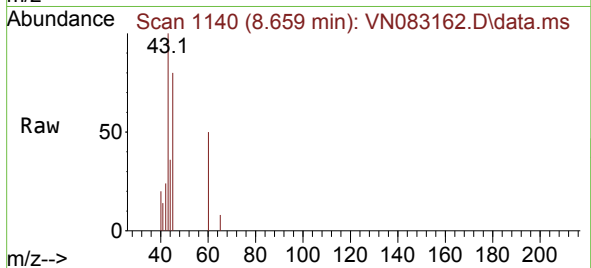
Tgt Ion: 83 Resp: 1586  
Ion Ratio Lower Upper  
83 100  
55 0.0 66.4 99.6#  
98 151.1 40.7 61.1#



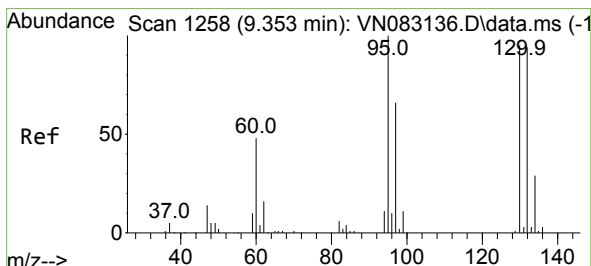
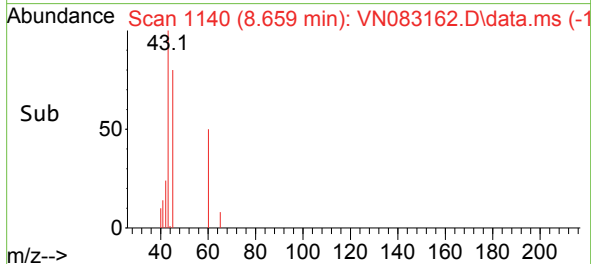
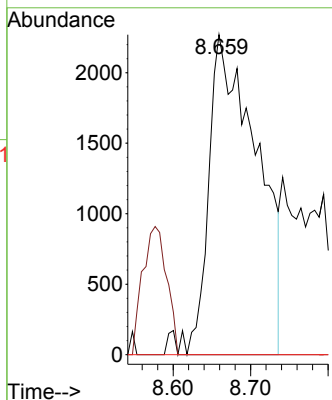


#43  
Isopropyl Acetate  
Concen: 0.512 ug/l  
RT: 8.659 min Scan# 1140  
Delta R.T. -0.029 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

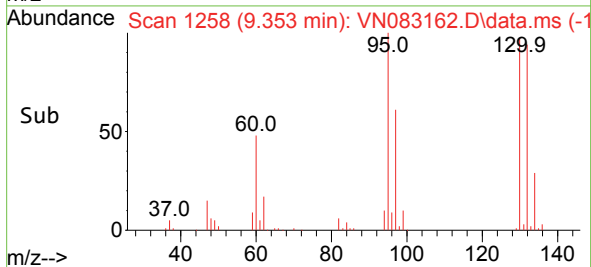
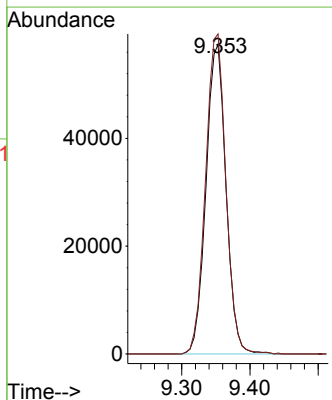
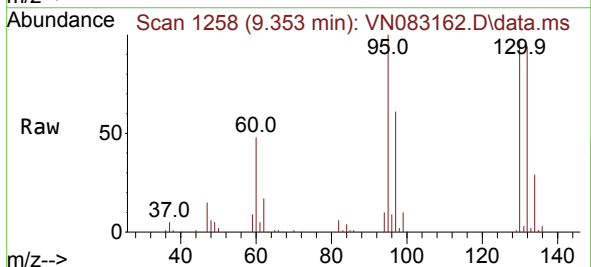


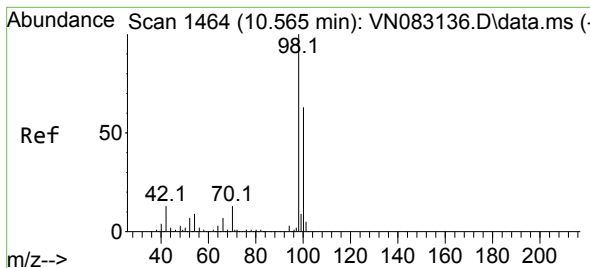
Tgt Ion: 43 Resp: 9748  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



#44  
Trichloroethene  
Concen: 69.554 ug/l  
RT: 9.353 min Scan# 1258  
Delta R.T. 0.000 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Tgt Ion:130 Resp: 117290  
Ion Ratio Lower Upper  
130 100  
95 103.4 0.0 197.8





#50

Toluene-d8

Concen: 55.820 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083162.D

Acq: 08 Aug 2024 17:47

Instrument :

MSVOA\_N

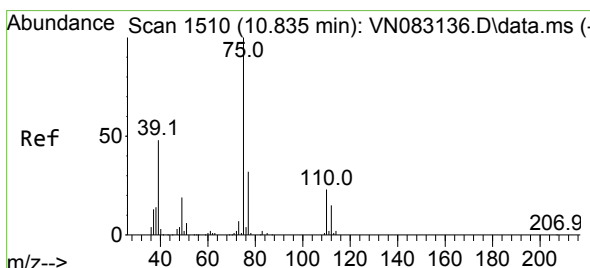
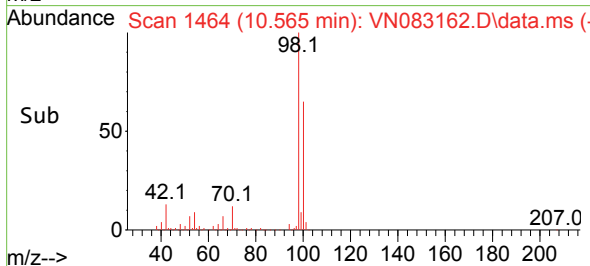
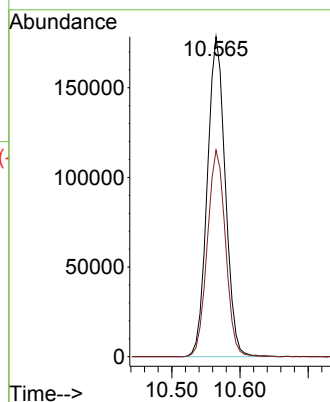
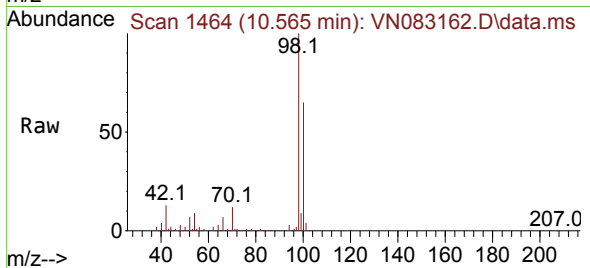
ClientSampleId :

Tgt Ion: 98 Resp: 327352

Ion Ratio Lower Upper

98 100

100 65.3 51.5 77.3



#53

t-1,3-Dichloropropene

Concen: 0.489 ug/l

RT: 10.700 min Scan# 1487

Delta R.T. -0.135 min

Lab File: VN083162.D

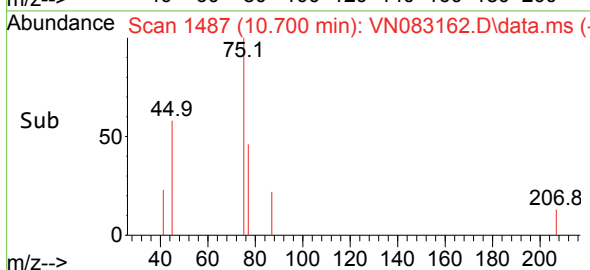
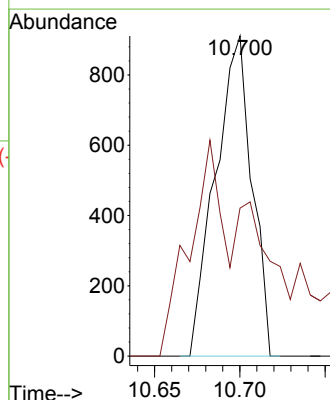
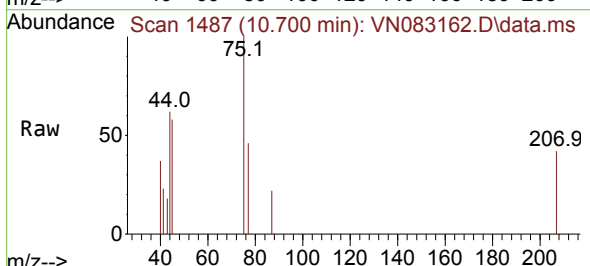
Acq: 08 Aug 2024 17:47

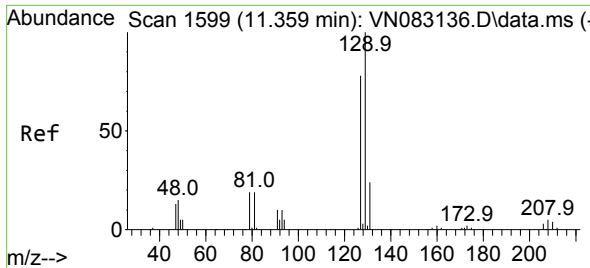
Tgt Ion: 75 Resp: 1357

Ion Ratio Lower Upper

75 100

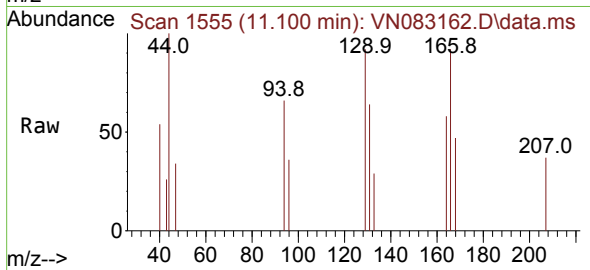
77 18.2 25.7 38.5#



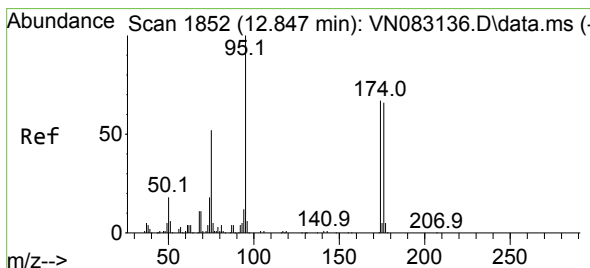
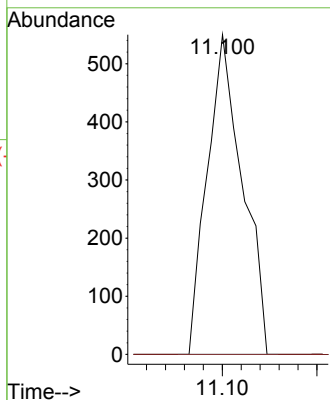
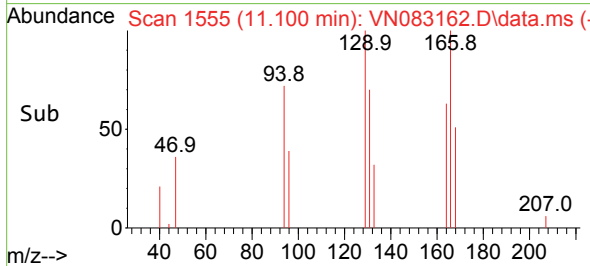


#60  
Dibromochloromethane  
Concen: 0.367 ug/l  
RT: 11.100 min Scan# 1599  
Delta R.T. -0.259 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :

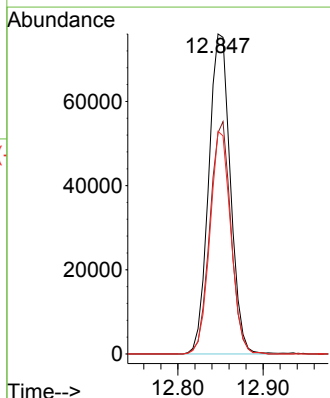
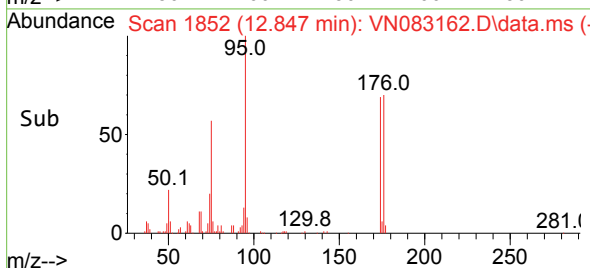
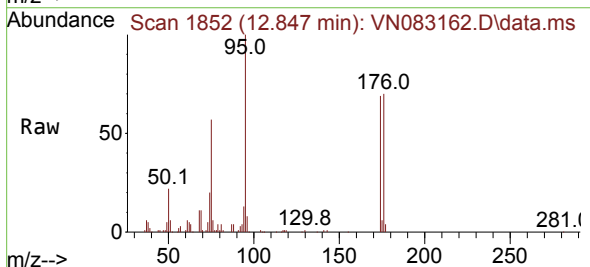


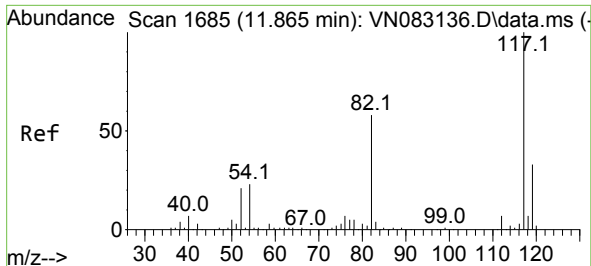
Tgt Ion:129 Resp: 711  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.2 117.6#



#62  
4-Bromofluorobenzene  
Concen: 58.842 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Tgt Ion: 95 Resp: 134530  
Ion Ratio Lower Upper  
95 100  
174 70.3 0.0 159.2  
176 67.2 0.0 147.6

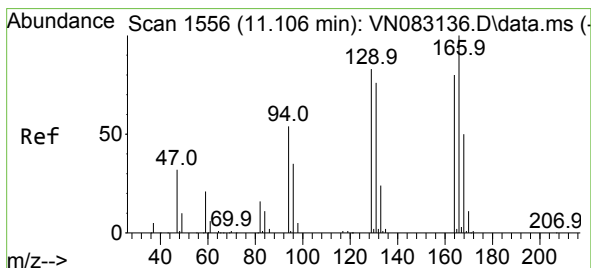
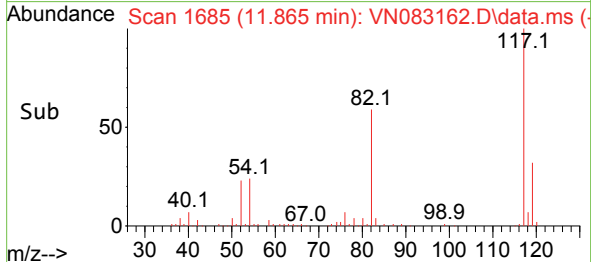
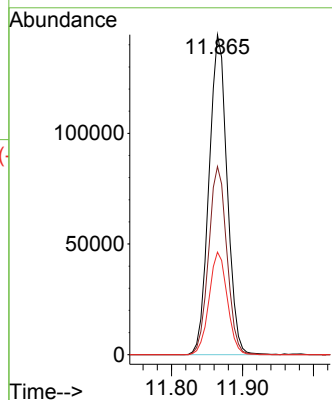
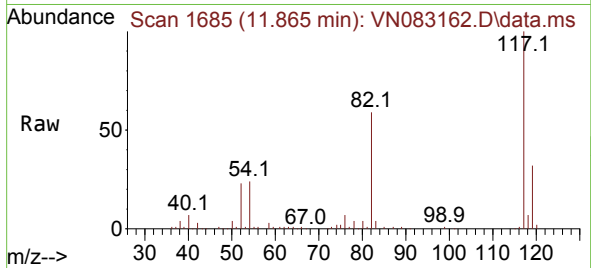




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

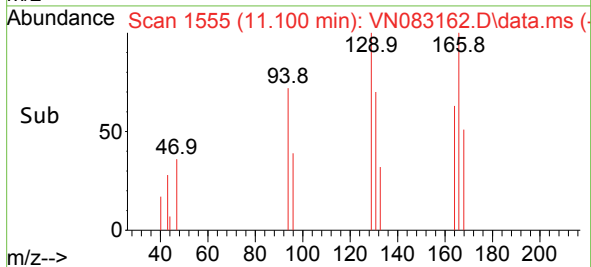
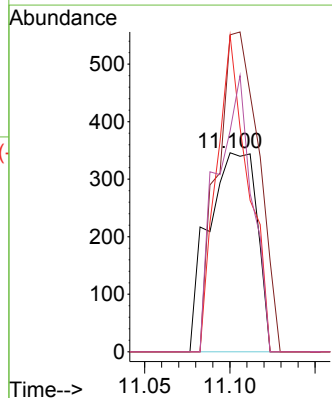
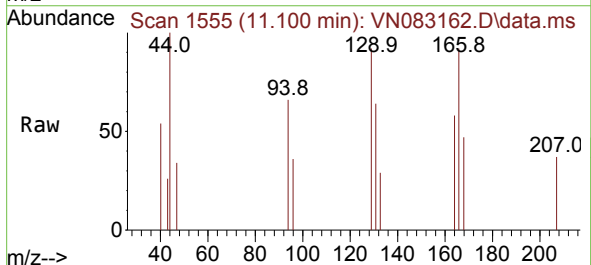
Instrument :  
MSVOA\_N  
ClientSampleId :

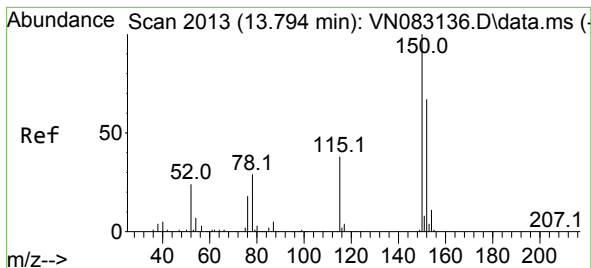
Tgt Ion:117 Resp: 255994  
Ion Ratio Lower Upper  
117 100  
82 58.8 47.5 71.3  
119 32.0 25.6 38.4



#64  
Tetrachloroethene  
Concen: 0.403 ug/l  
RT: 11.100 min Scan# 1555  
Delta R.T. -0.006 min  
Lab File: VN083162.D  
Acq: 08 Aug 2024 17:47

Tgt Ion:164 Resp: 683  
Ion Ratio Lower Upper  
164 100  
166 159.2 101.4 152.0#  
129 159.0 75.7 113.5#  
131 111.0 73.8 110.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

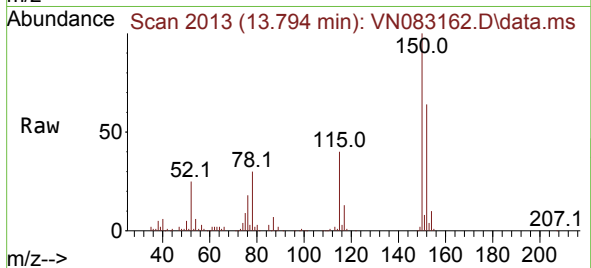
Lab File: VN083162.D

Acq: 08 Aug 2024 17:47

Instrument :

MSVOA\_N

ClientSampleId :



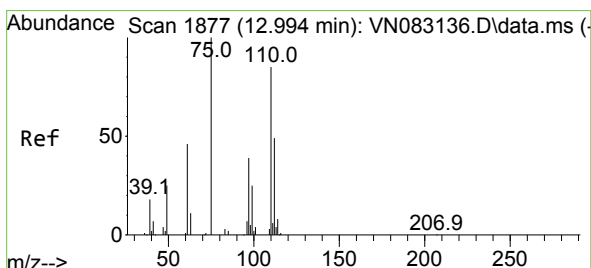
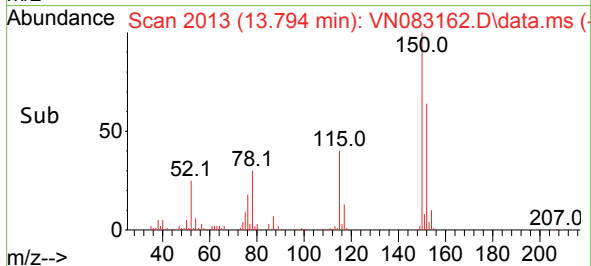
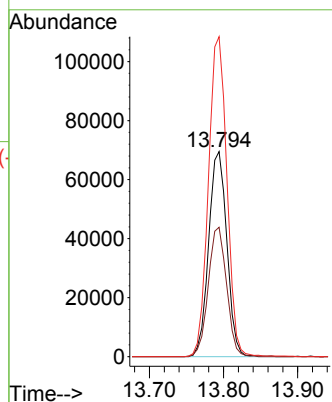
Tgt Ion:152 Resp: 118876

Ion Ratio Lower Upper

152 100

115 63.3 30.6 91.6

150 158.1 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 28.329 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083162.D

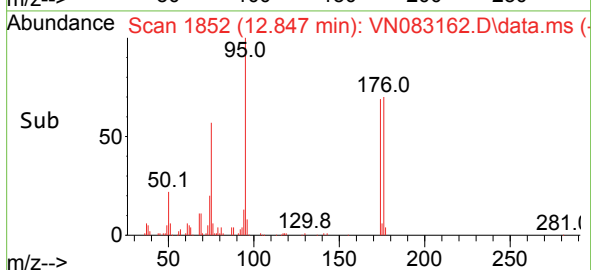
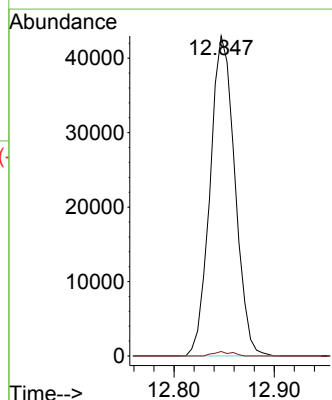
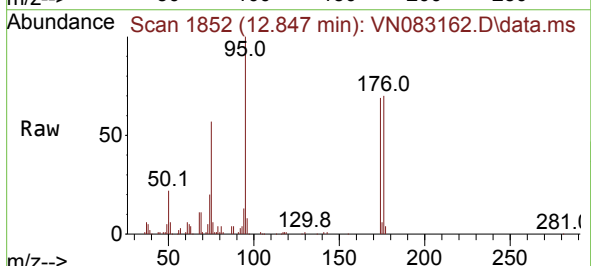
Acq: 08 Aug 2024 17:47

Tgt Ion: 75 Resp: 73912

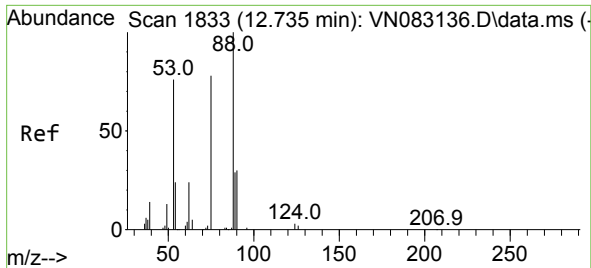
Ion Ratio Lower Upper

75 100

77 1.0 110.9 332.6#

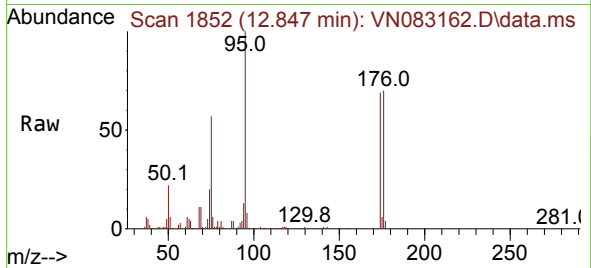






#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.623 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN083162.D  
 Acq: 08 Aug 2024 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 88.4  | 132.6# |
| 89      | 0.0   | 36.3  | 54.5#  |

