

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
 Data File : VX025780.D  
 Acq On : 14 Dec 2021 16:33  
 Operator : JC/MD  
 Sample : M4988-12 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE122D2-20211207

Quant Time: Dec 15 07:05:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 132565   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.769  | 114  | 228954   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 207783   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 85646    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 89015    | 46.669   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 93.340% |
| 35) Dibromofluoromethane    | 5.385  | 113   | 74199    | 46.469   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 92.940% |
| 50) Toluene-d8              | 8.653  | 98    | 270865   | 46.558   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 93.120% |
| 62) 4-Bromofluorobenzene    | 11.085 | 95    | 103887   | 47.008   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 94.020% |

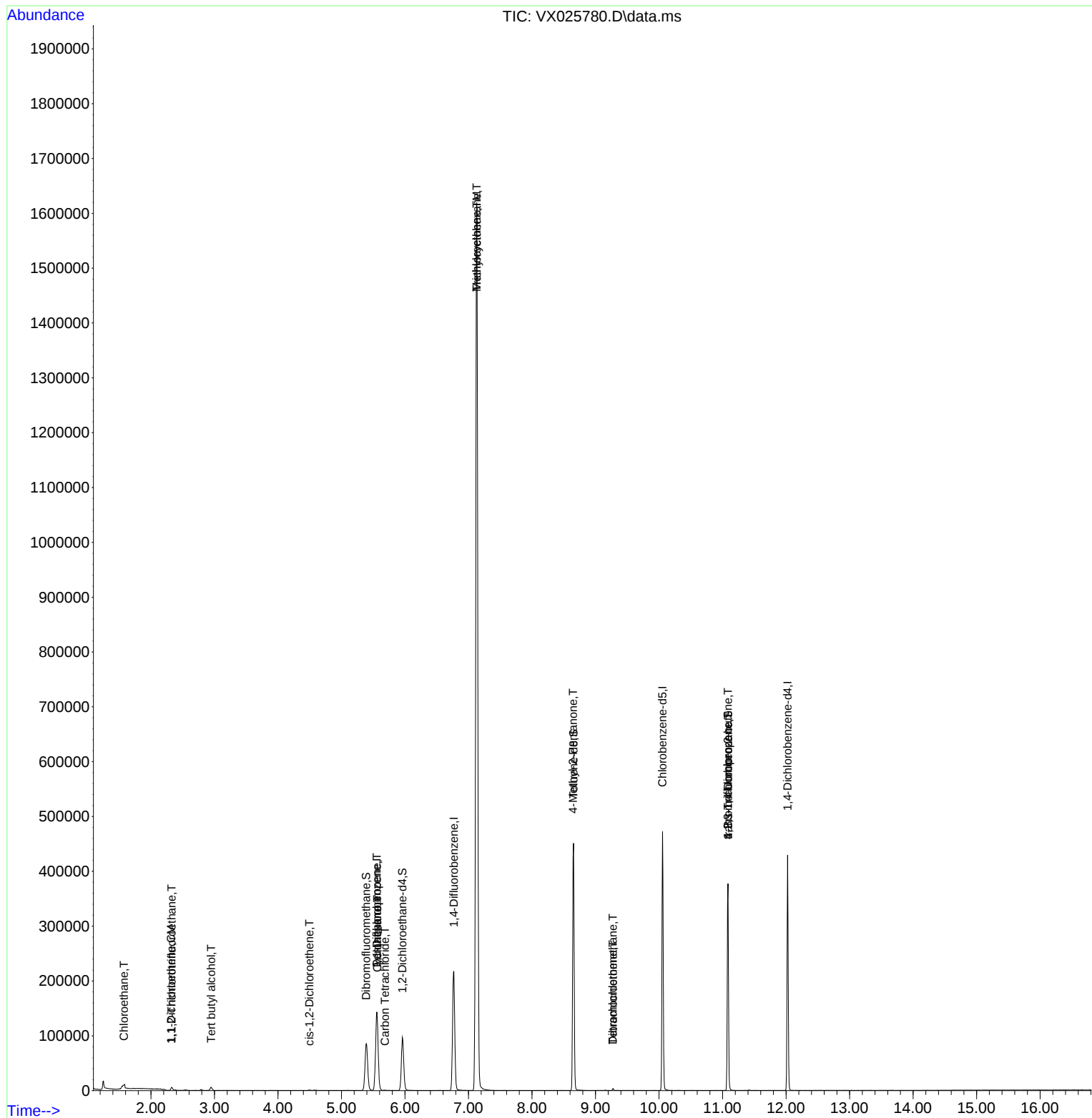
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 6) Chloroethane               | 1.575  | 64  | 2653   | 2.231     | ug/l # | 60 |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101 | 1667   | 1.181     | ug/l   | 94 |
| 11) Tert butyl alcohol        | 2.946  | 59  | 3444   | 9.001     | ug/l # | 73 |
| 12) 1,1-Dichloroethene        | 2.319  | 96  | 557    | 0.397     | ug/l   | 82 |
| 16) Acetone                   | 2.386  | 43  | 930    | Below Cal |        | 97 |
| 20) Methylene Chloride        | 2.794  | 84  | 757    | Below Cal |        | 87 |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96  | 531    | 0.286     | ug/l   | 86 |
| 31) Cyclohexane               | 5.562  | 56  | 3080   | 1.328     | ug/l # | 11 |
| 36) 1,1-Dichloropropene       | 5.556  | 75  | 10930  | 5.048     | ug/l # | 46 |
| 38) Carbon Tetrachloride      | 5.684  | 117 | 513    | 0.204     | ug/l # | 51 |
| 39) Methylcyclohexane         | 7.129  | 83  | 7648   | 3.157     | ug/l # | 1  |
| 44) Trichloroethene           | 7.129  | 130 | 631700 | 351.279   | ug/l   | 95 |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43  | 1344   | 0.530     | ug/l # | 1  |
| 60) Dibromochloromethane      | 9.275  | 129 | 527    | 0.263     | ug/l # | 11 |
| 64) Tetrachloroethene         | 9.275  | 164 | 556    | 0.335     | ug/l   | 93 |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75  | 53648  | 27.339    | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75  | 53648  | 84.759    | ug/l # | 10 |

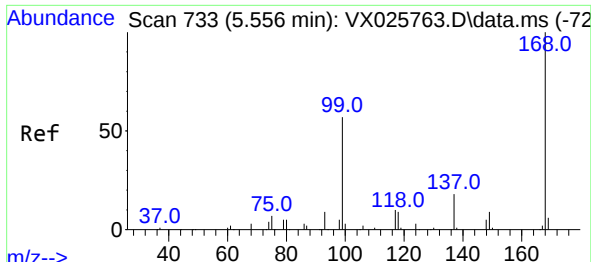
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
Data File : VX025780.D  
Acq On : 14 Dec 2021 16:33  
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Sample : M4988-12 10X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

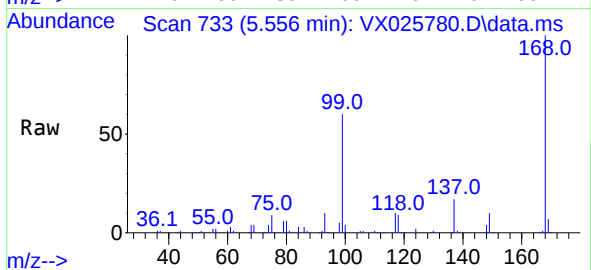
Quant Time: Dec 15 07:05:44 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



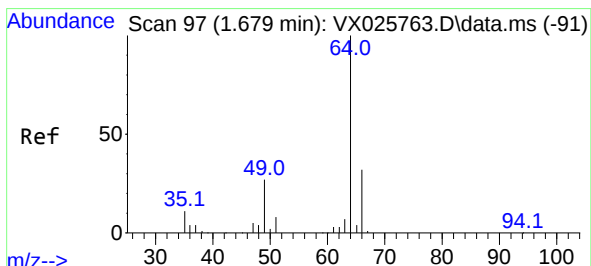
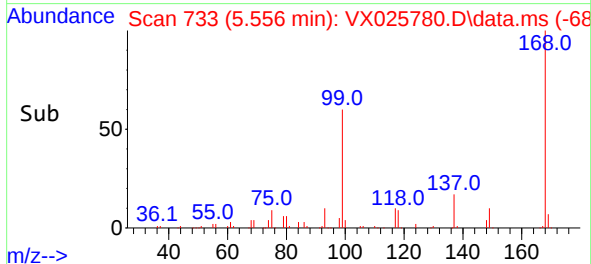
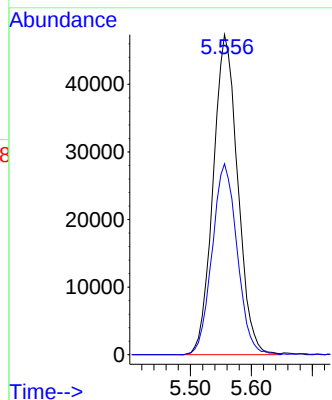


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

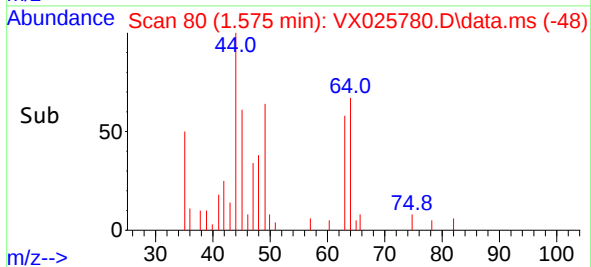
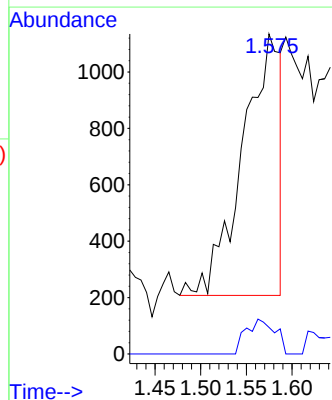
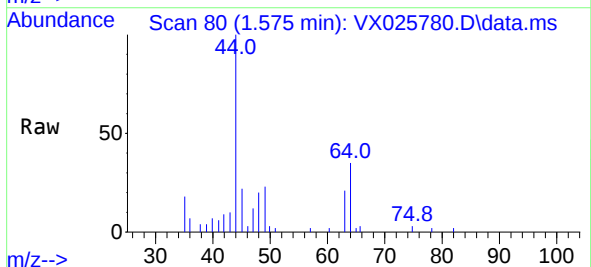


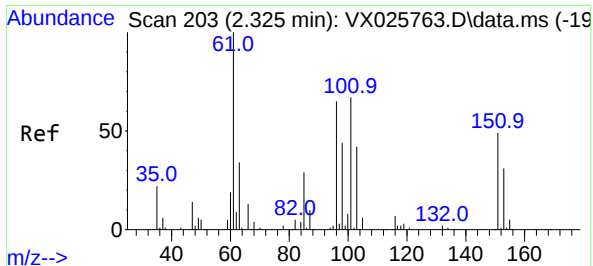
Tgt Ion:168 Resp: 132565  
Ion Ratio Lower Upper  
168 100  
99 59.7 45.8 68.8



#6  
Chloroethane  
Concen: 2.231 ug/l  
RT: 1.575 min Scan# 80  
Delta R.T. -0.104 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 64 Resp: 2653  
Ion Ratio Lower Upper  
64 100  
66 10.1 25.9 38.9

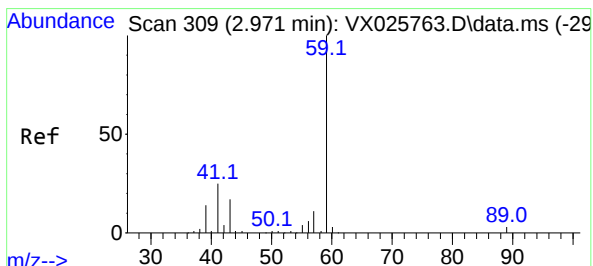
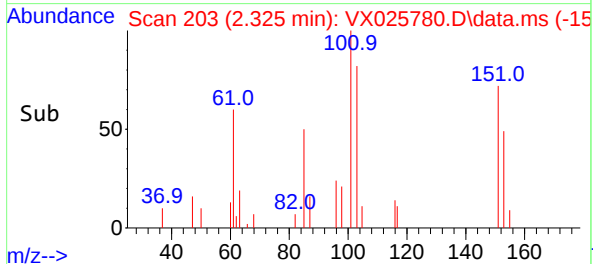
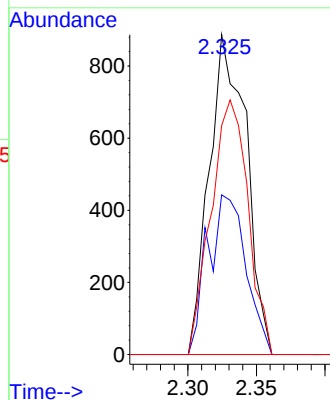
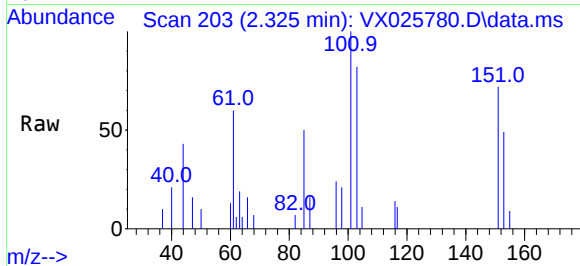




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.181 ug/l  
RT: 2.325 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

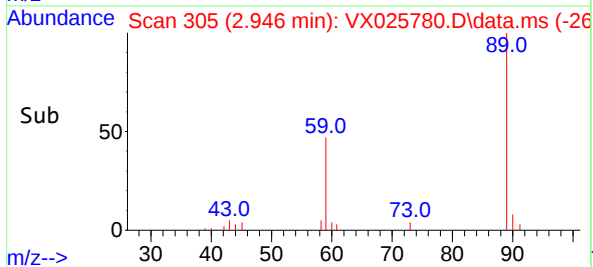
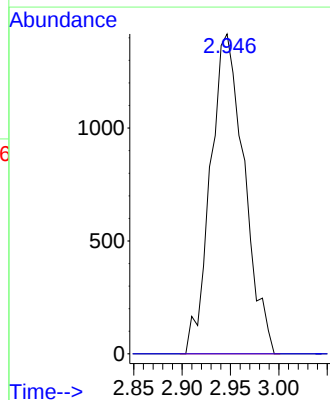
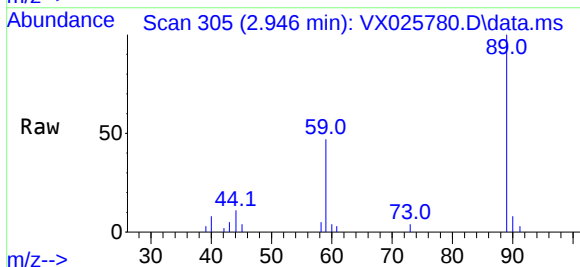
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

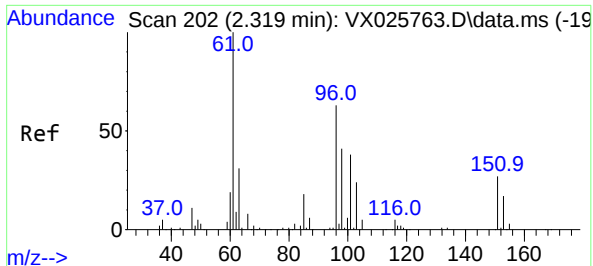
Tgt Ion:101 Resp: 1667  
Ion Ratio Lower Upper  
101 100  
85 51.5 36.5 54.7  
151 79.7 60.6 90.8



#11  
Tert butyl alcohol  
Concen: 9.001 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.025 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

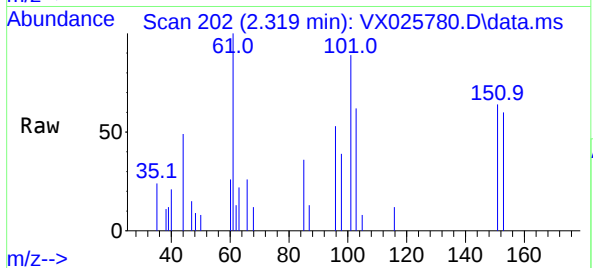
Tgt Ion: 59 Resp: 3444  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#





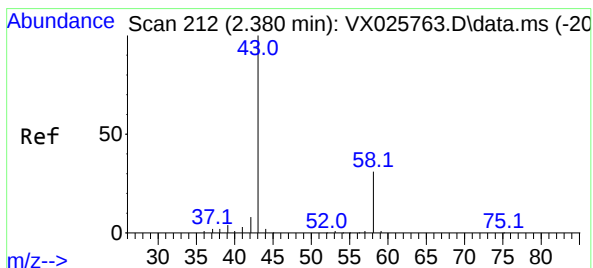
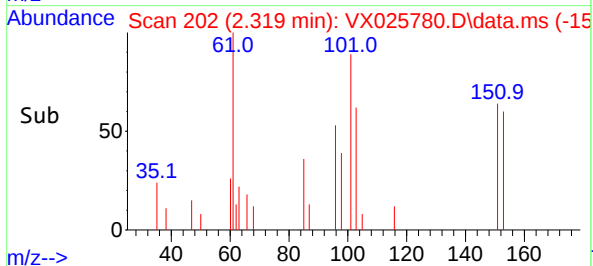
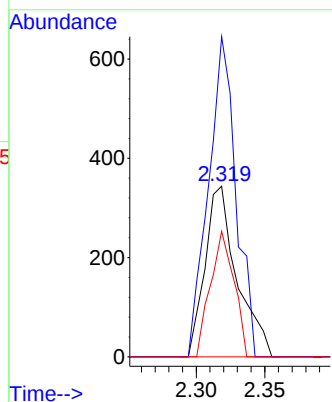
#12  
1,1-Dichloroethene  
Concen: 0.397 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207



Tgt Ion: 96 Resp: 557

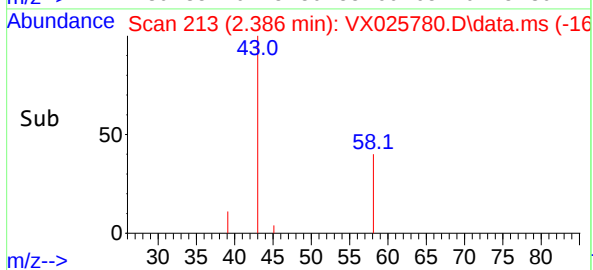
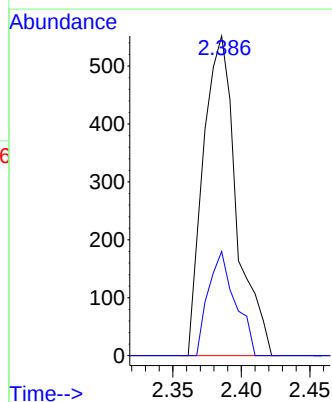
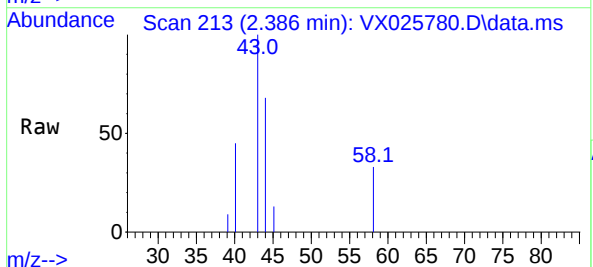
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 187.5 | 127.5 | 191.3 |
| 98  | 73.5  | 52.0  | 78.0  |

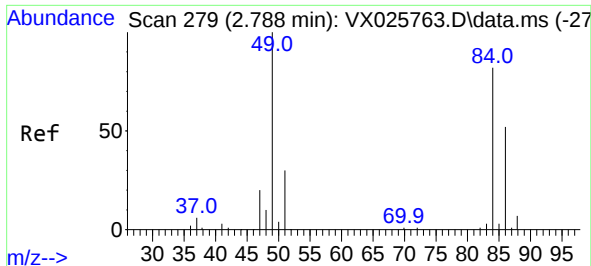


#16  
Acetone  
Concen: Below Cal  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 43 Resp: 930

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 32.6  | 24.8  | 37.2  |



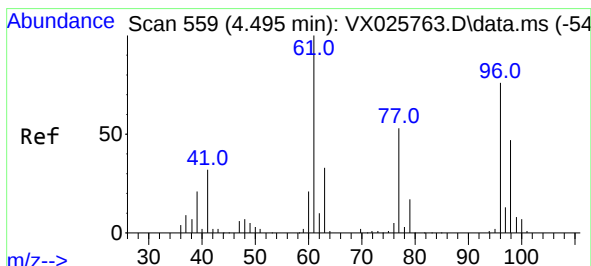
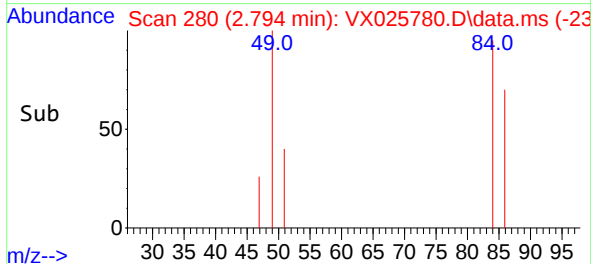
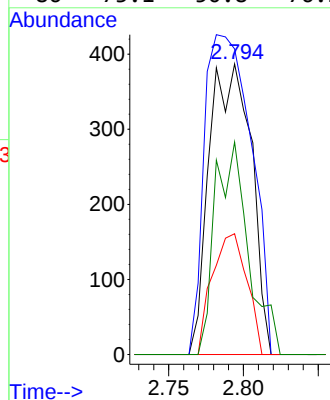
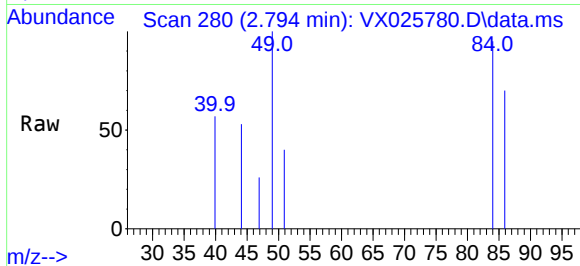


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

Tgt Ion: 84 Resp: 757

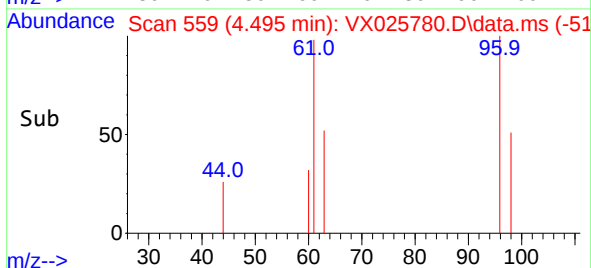
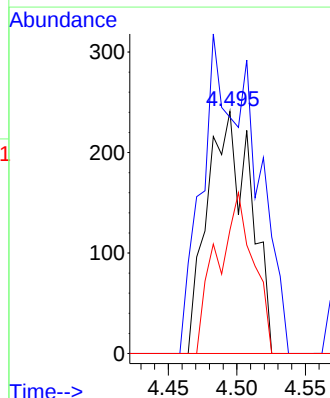
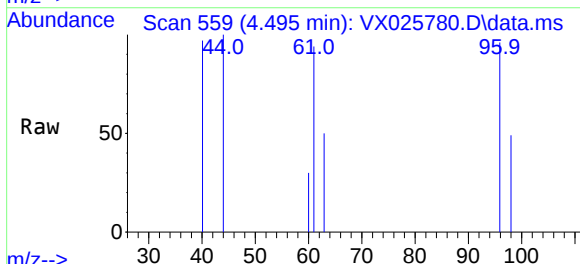
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 105.2 | 97.1  | 145.7 |
| 51  | 41.6  | 29.3  | 43.9  |
| 86  | 73.1  | 50.8  | 76.2  |

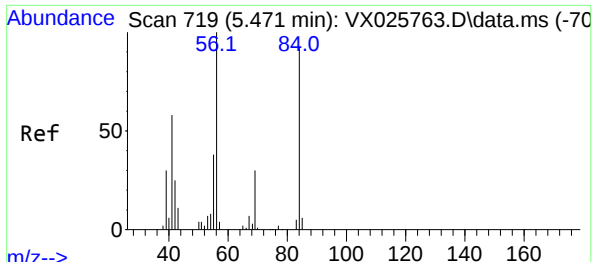


#27  
cis-1,2-Dichloroethene  
Concen: 0.286 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 96 Resp: 531

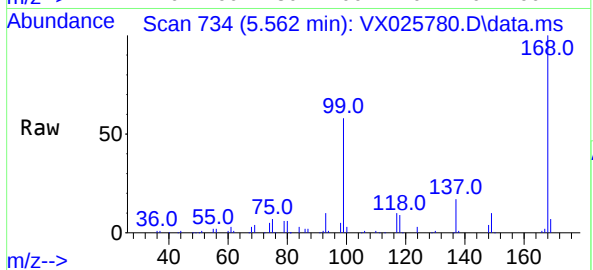
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 156.1 | 0.0   | 276.8 |
| 98  | 55.7  | 0.0   | 130.6 |



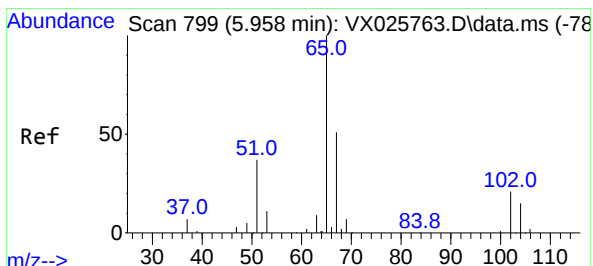
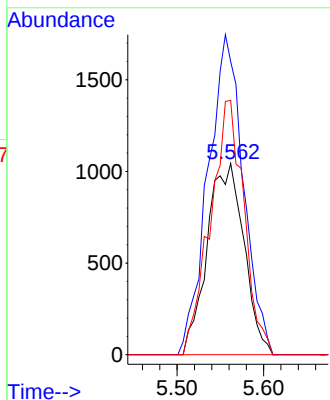
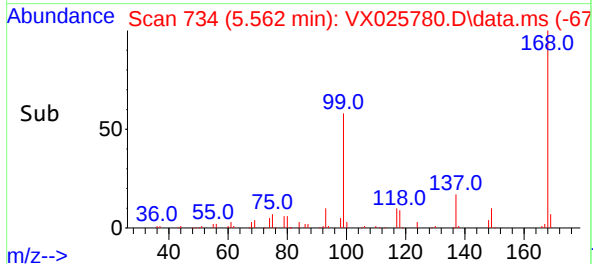


#31  
Cyclohexane  
Concen: 1.328 ug/l  
RT: 5.562 min Scan# 719  
Delta R.T. 0.091 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Instrument :  
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ClientSampleId :  
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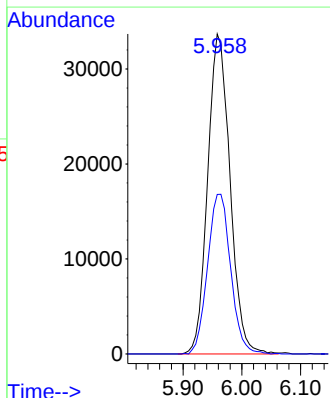
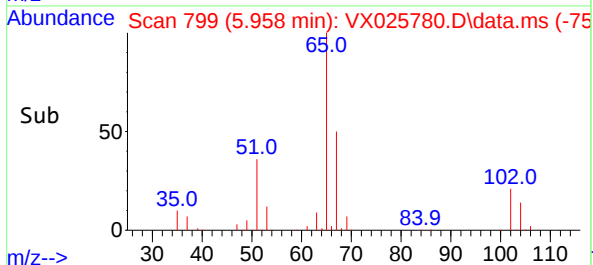
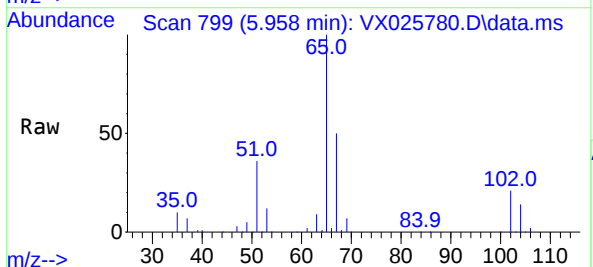


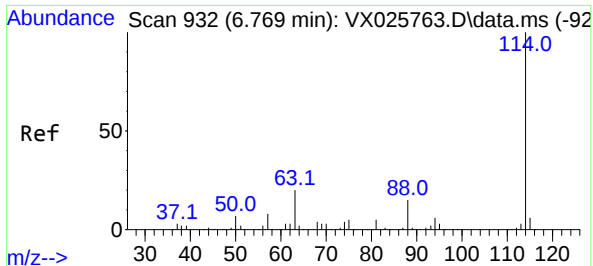
Tgt Ion: 56 Resp: 3080  
Ion Ratio Lower Upper  
56 100  
69 153.3 23.9 35.9#  
84 133.0 73.2 109.8#



#33  
1,2-Dichloroethane-d4  
Concen: 46.669 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 65 Resp: 89015  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX025780.D

Acq: 14 Dec 2021 16:33

Instrument :

MSVOA\_X

ClientSampleId :

RE122D2-20211207

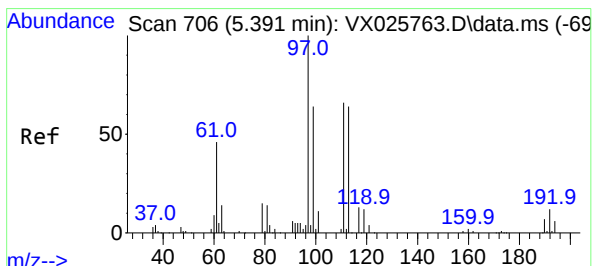
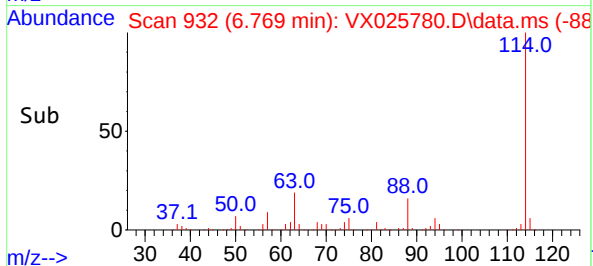
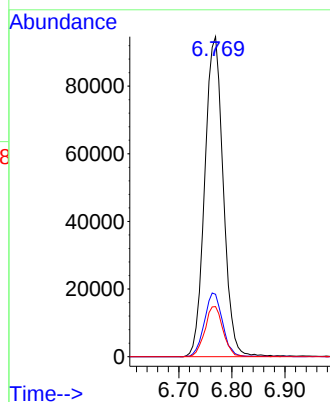
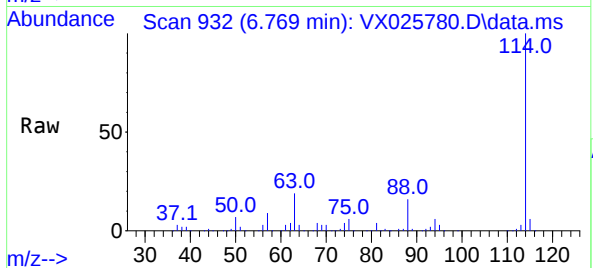
Tgt Ion:114 Resp: 228954

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.469 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX025780.D

Acq: 14 Dec 2021 16:33

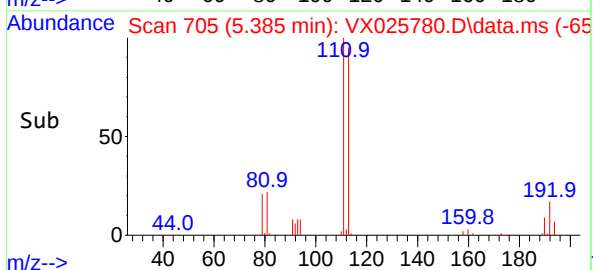
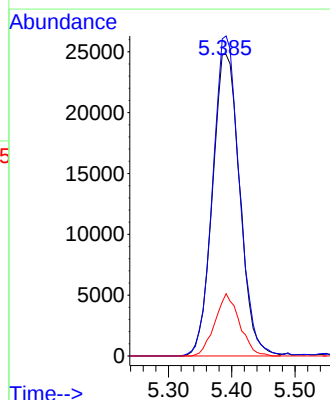
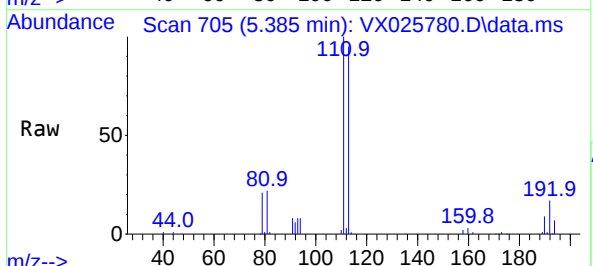
Tgt Ion:113 Resp: 74199

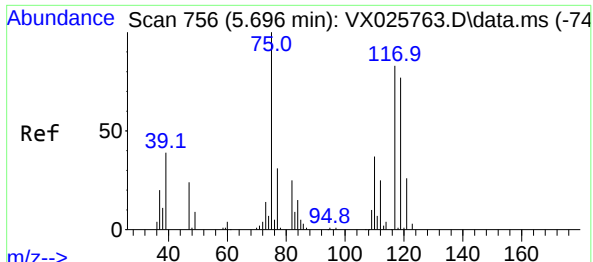
Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

192 18.6 15.0 22.4

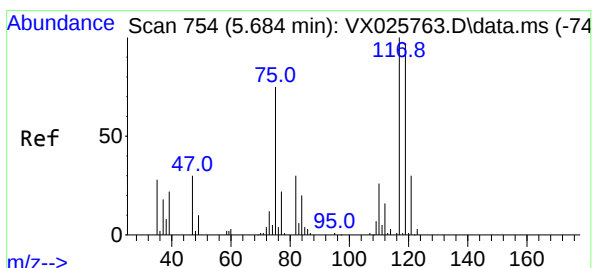
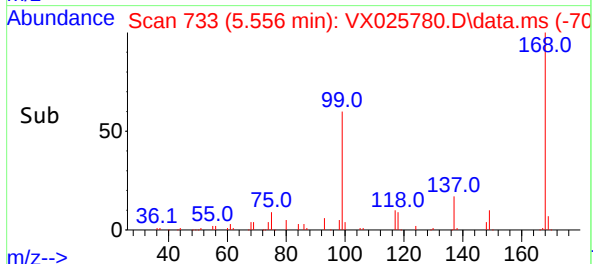
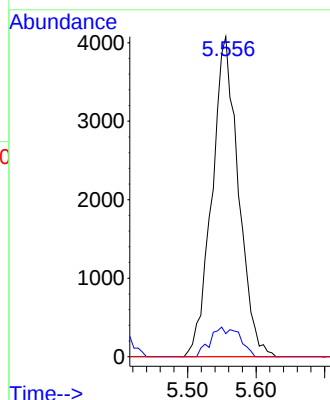
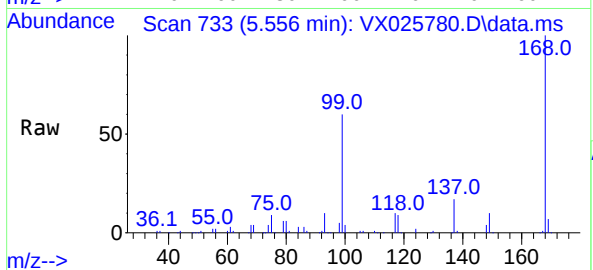




#36  
1,1-Dichloropropene  
Concen: 5.048 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

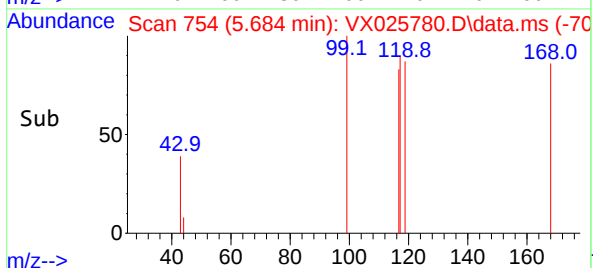
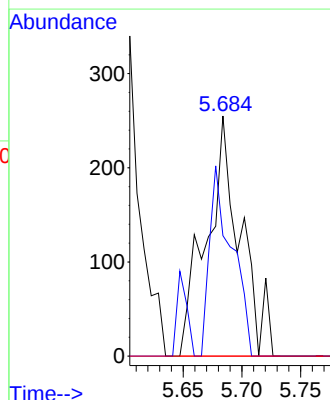
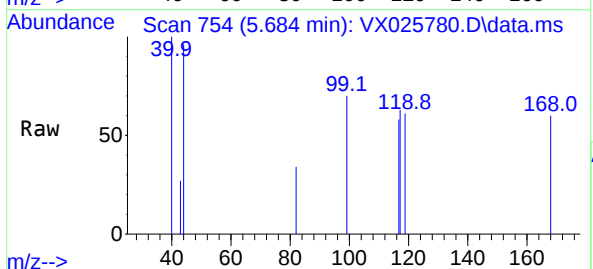
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

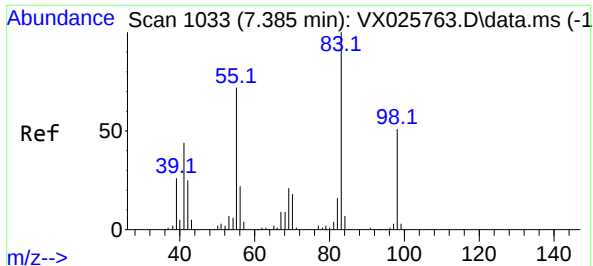
Tgt Ion: 75 Resp: 10930  
Ion Ratio Lower Upper  
75 100  
110 5.7 18.2 54.6#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 0.204 ug/l  
RT: 5.684 min Scan# 754  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 117 Resp: 513  
Ion Ratio Lower Upper  
117 100  
119 50.2 77.2 115.8#  
121 0.0 23.8 35.8#





#39

Methylcyclohexane

Concen: 3.157 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX025780.D

Acq: 14 Dec 2021 16:33

Instrument :

MSVOA\_X

ClientSampleId :

RE122D2-20211207

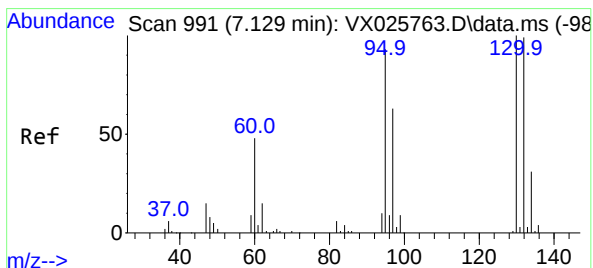
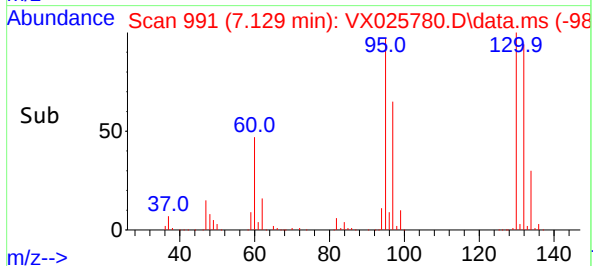
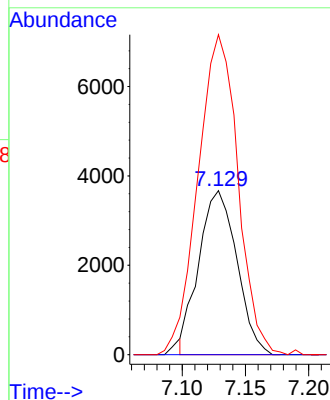
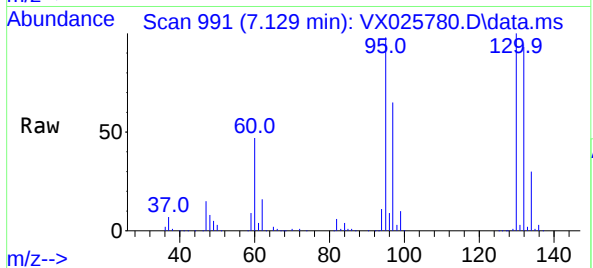
Tgt Ion: 83 Resp: 7648

Ion Ratio Lower Upper

83 100

55 0.0 57.8 86.8#

98 193.5 40.5 60.7#



#44

Trichloroethene

Concen: 351.279 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025780.D

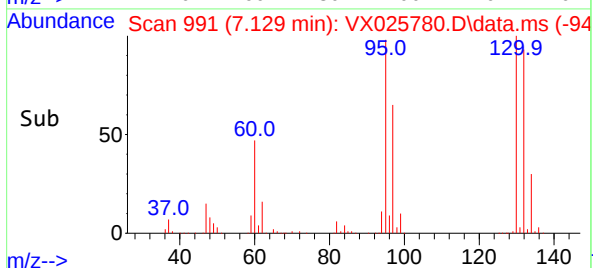
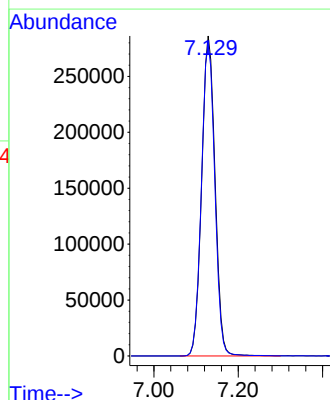
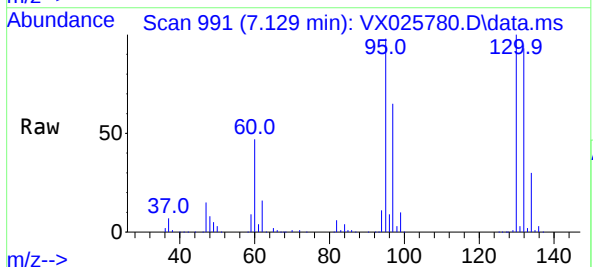
Acq: 14 Dec 2021 16:33

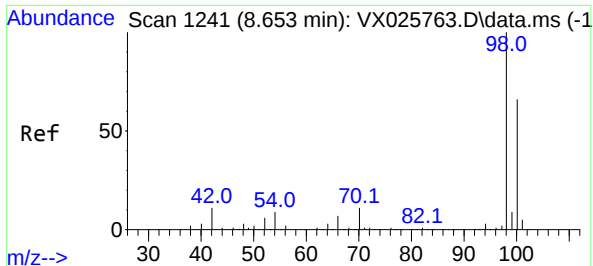
Tgt Ion:130 Resp: 631700

Ion Ratio Lower Upper

130 100

95 97.5 0.0 186.4

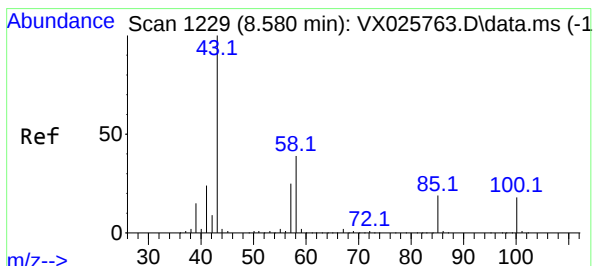
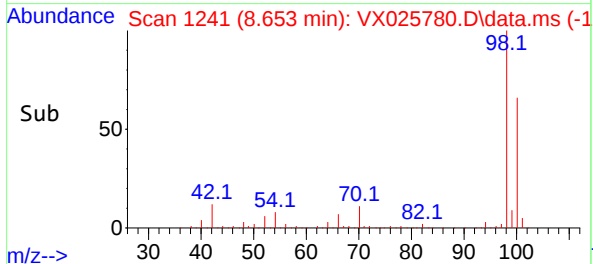
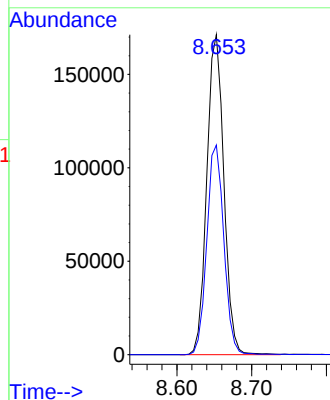
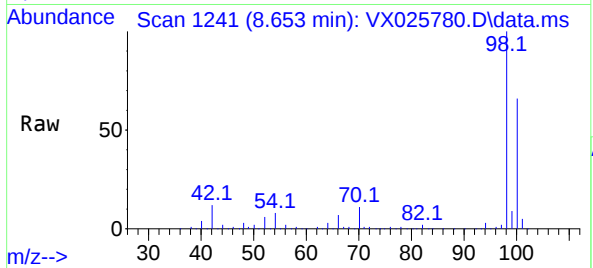




#50  
Toluene-d8  
Concen: 46.558 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

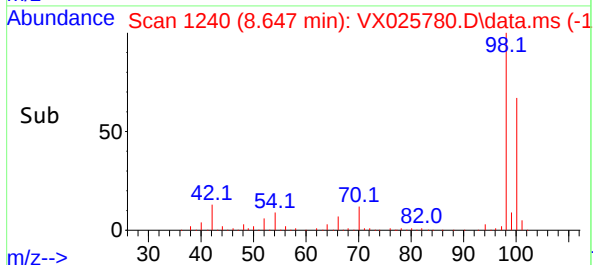
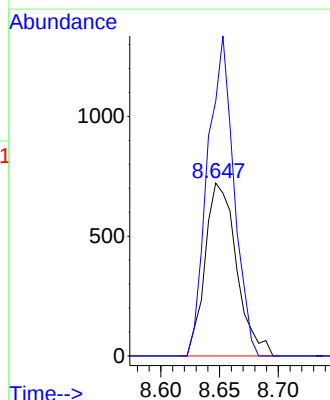
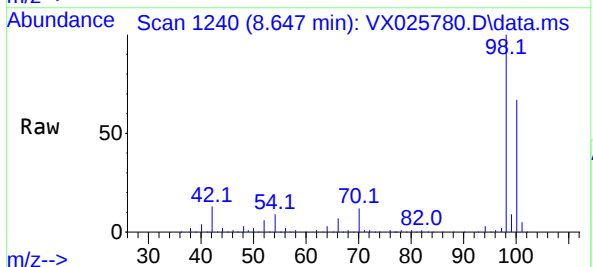
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

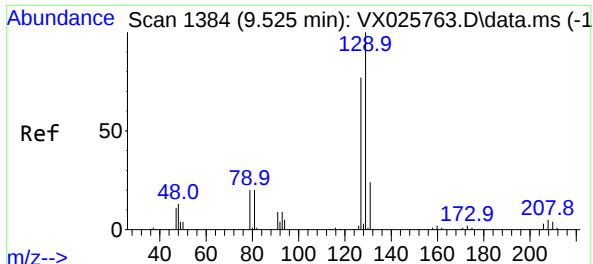
Tgt Ion: 98 Resp: 270865  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.530 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.067 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 43 Resp: 1344  
Ion Ratio Lower Upper  
43 100  
58 155.0 30.8 46.2#

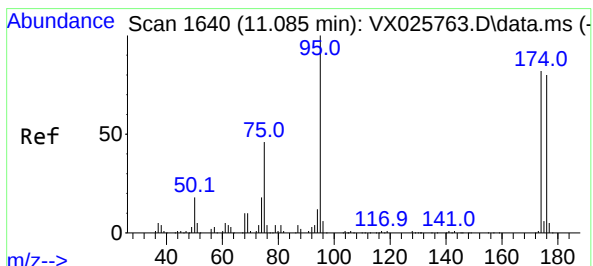
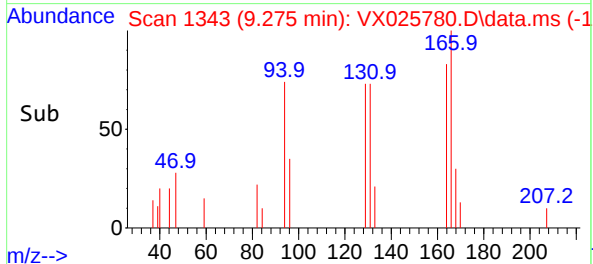
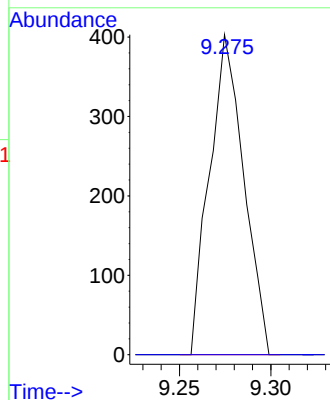
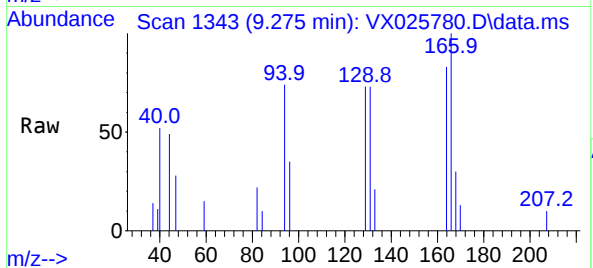




#60  
Dibromochloromethane  
Concen: 0.263 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

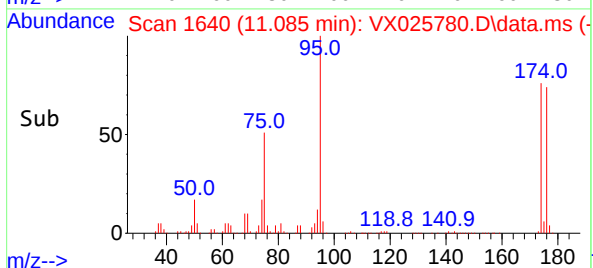
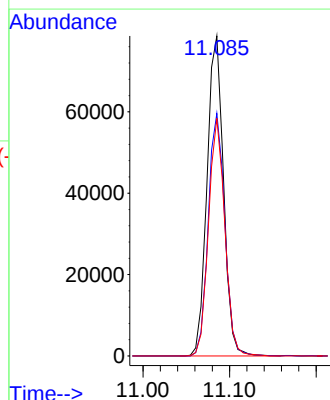
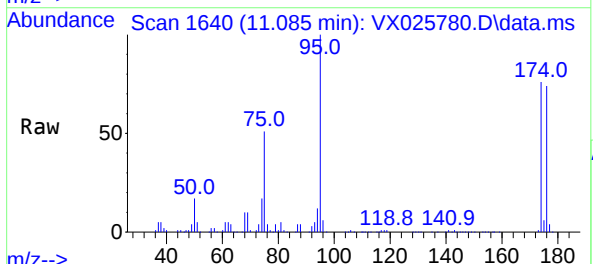
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

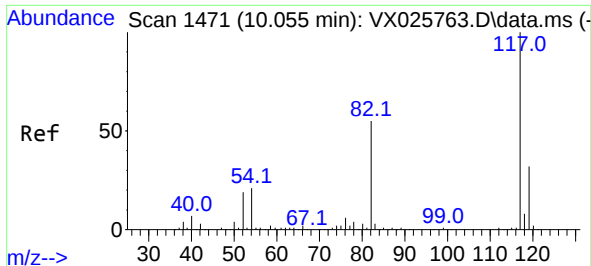
Tgt Ion:129 Resp: 527  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.7#



#62  
4-Bromofluorobenzene  
Concen: 47.008 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

Tgt Ion: 95 Resp: 103887  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 157.4  
176 73.3 0.0 154.6

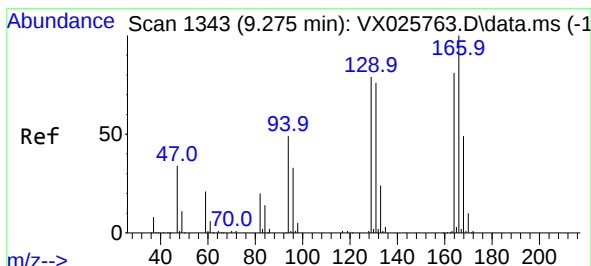
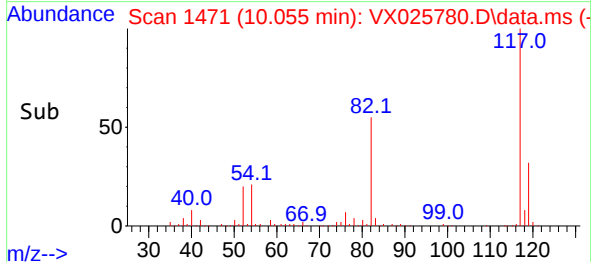
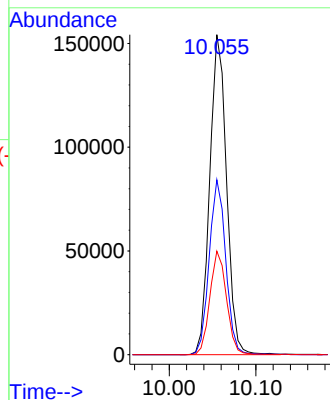
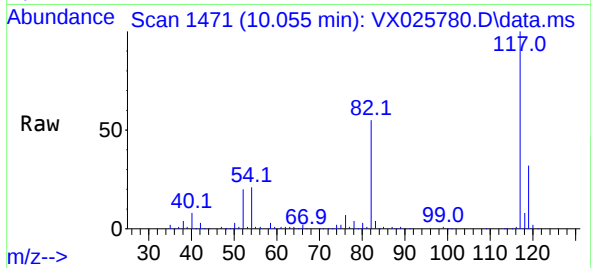




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

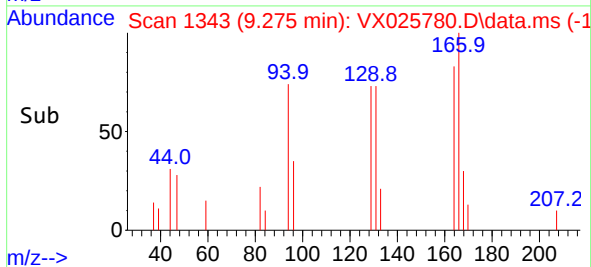
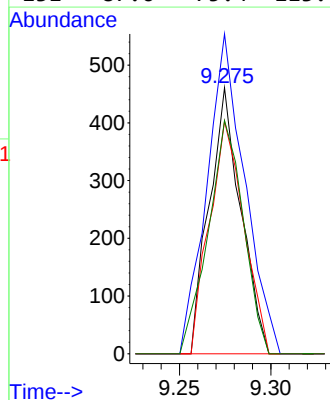
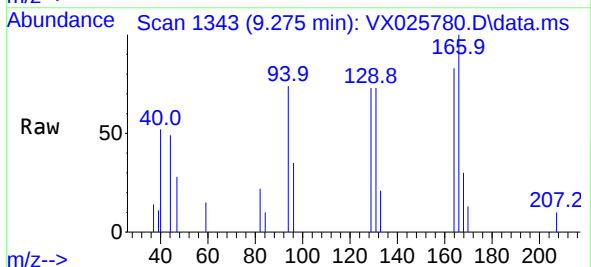
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207

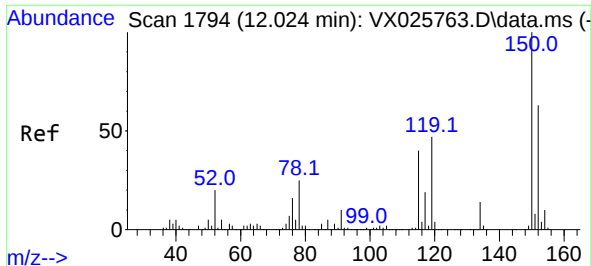
Tgt Ion:117 Resp: 207783  
Ion Ratio Lower Upper  
117 100  
82 54.6 43.8 65.6  
119 32.3 25.2 37.8



#64  
Tetrachloroethene  
Concen: 0.335 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

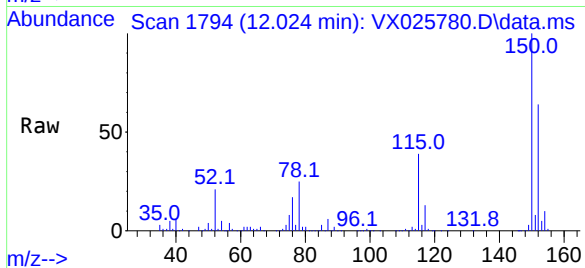
Tgt Ion:164 Resp: 556  
Ion Ratio Lower Upper  
164 100  
166 120.2 99.4 149.0  
129 87.4 78.6 118.0  
131 87.6 75.4 113.0



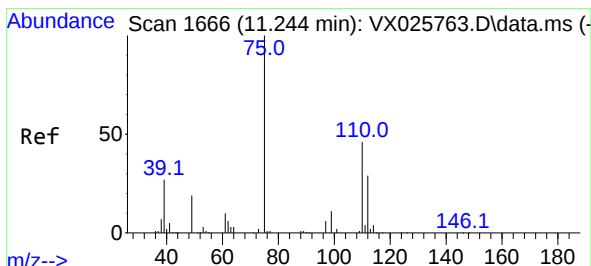
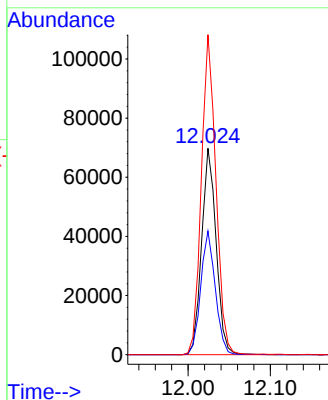
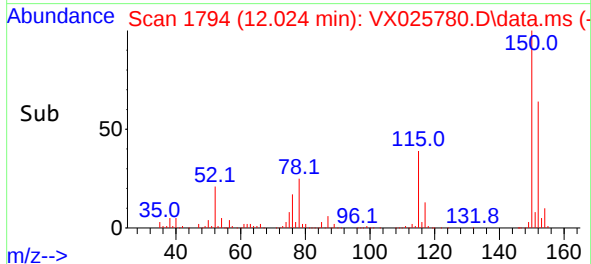


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33

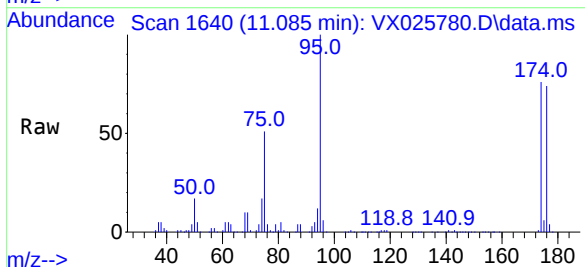
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE122D2-20211207



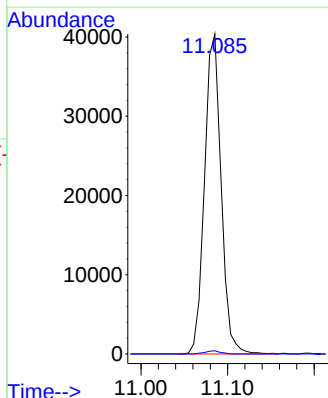
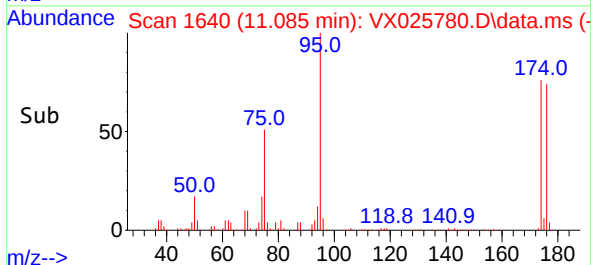
Tgt Ion:152 Resp: 85646  
Ion Ratio Lower Upper  
152 100  
115 60.4 41.3 123.9  
150 156.2 0.0 351.8

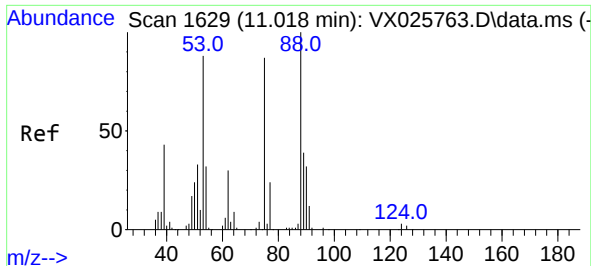


#76  
1,2,3-Trichloropropane  
Concen: 27.339 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX025780.D  
Acq: 14 Dec 2021 16:33



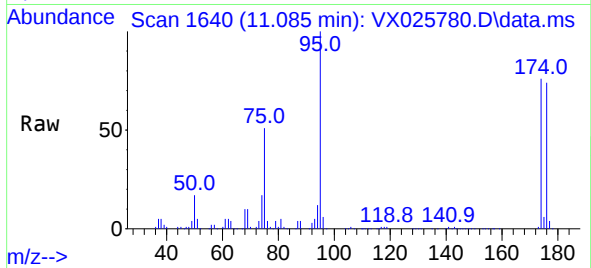
Tgt Ion: 75 Resp: 53648  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.0 57.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 84.759 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.067 min  
 Lab File: VX025780.D  
 Acq: 14 Dec 2021 16:33

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE122D2-20211207



Tgt Ion: 75 Resp: 53648  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.5 119.3#  
 89 0.0 38.3 57.5#

