

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032521\  
 Data File : VX021495.D  
 Acq On : 25 Mar 2021 18:39  
 Operator : JC/MD  
 Sample : M1787-10DL 4X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 26 03:17:31 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 24 12:25:26 2021  
 Response via : Initial Calibration

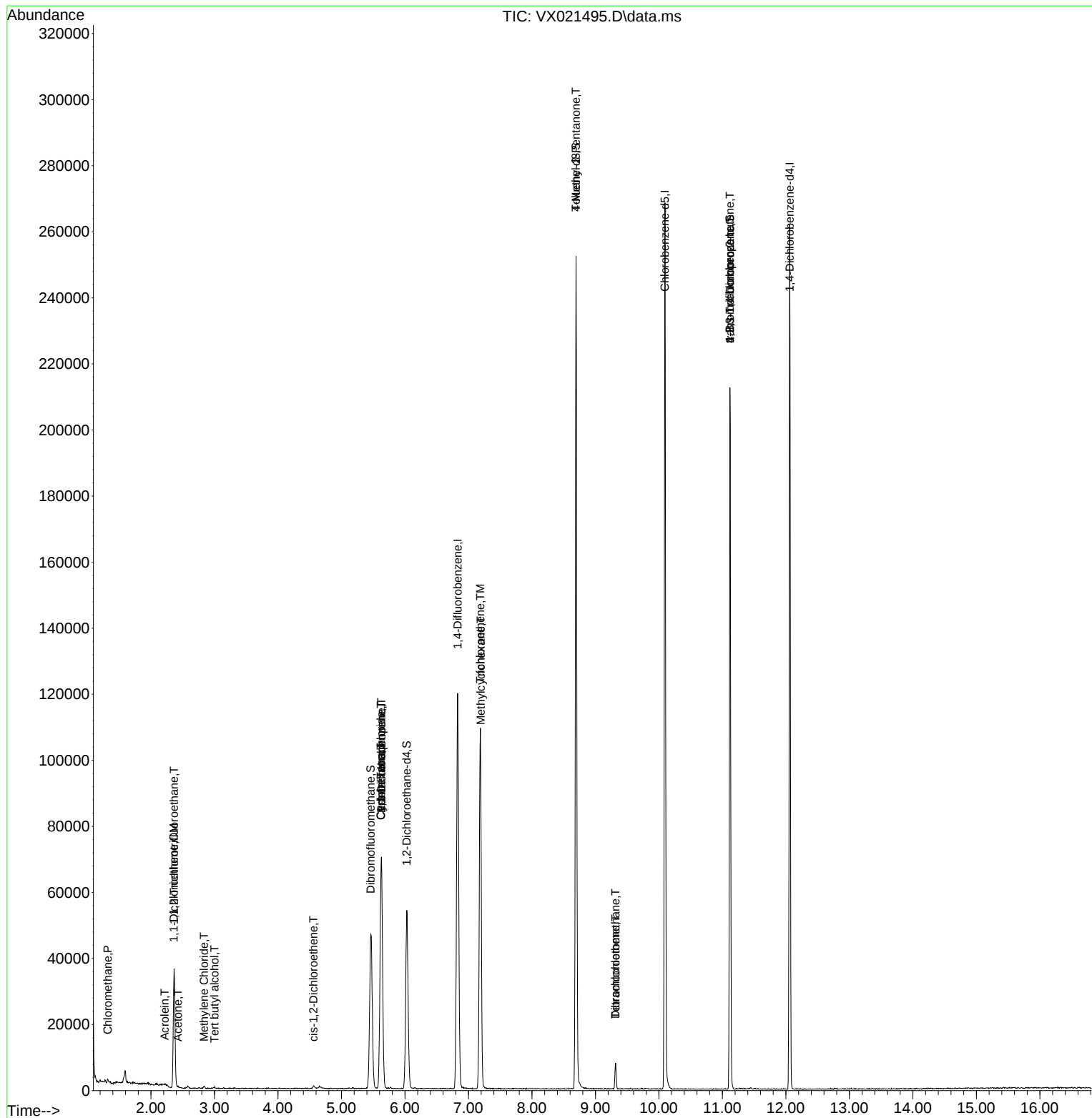
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 59257    | 50.00    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.829  | 114   | 110752   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 110758   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059 | 152   | 48569    | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029  | 65    | 52580    | 53.33    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 106.66%  |
| 35) Dibromofluoromethane      | 5.458  | 113   | 38789    | 49.31    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.62%   |
| 50) Toluene-d8                | 8.694  | 98    | 141483   | 50.47    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 100.94%  |
| 62) 4-Bromofluorobenzene      | 11.118 | 95    | 55727    | 51.13    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 102.26%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.317  | 50    | 1978     | 2.68     | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.364  | 101   | 13300    | 21.81    | ug/l   | 95       |
| 11) Tert butyl alcohol        | 2.999  | 59    | 198      | 1.21     | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.358  | 96    | 140      | 0.23     | ug/l # | 76       |
| 13) Acrolein                  | 2.217  | 56    | 83       | 5.29     | ug/l # | 52       |
| 16) Acetone                   | 2.423  | 43    | 538      | 1.44     | ug/l # | 83       |
| 20) Methylene Chloride        | 2.834  | 84    | 253      | 0.35     | ug/l # | 78       |
| 27) cis-1,2-Dichloroethene    | 4.558  | 96    | 469      | 0.62     | ug/l   | 83       |
| 31) Cyclohexane               | 5.623  | 56    | 1773     | 1.64     | ug/l # | 29       |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 5596     | 5.16     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.623  | 117   | 6853     | 5.88     | ug/l # | 16       |
| 39) Methylcyclohexane         | 7.194  | 83    | 525      | 0.44     | ug/l # | 1        |
| 44) Trichloroethene           | 7.188  | 130   | 37965    | 46.69    | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 8.694  | 43    | 808      | 0.64     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.318  | 129   | 1303     | 1.45     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.318  | 164   | 1231     | 1.66     | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 31248    | 27.64    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 31248    | 84.18    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032521\  
Data File : VX021495.D  
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Sample : M1787-10DL 4X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

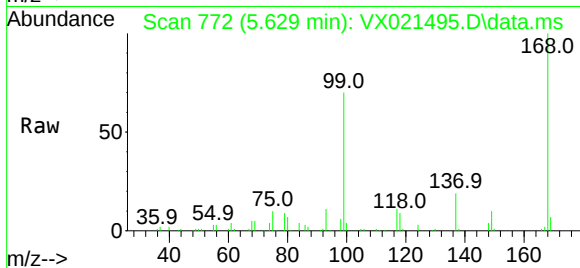
Quant Time: Mar 26 03:17:31 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 24 12:25:26 2021  
Response via : Initial Calibration



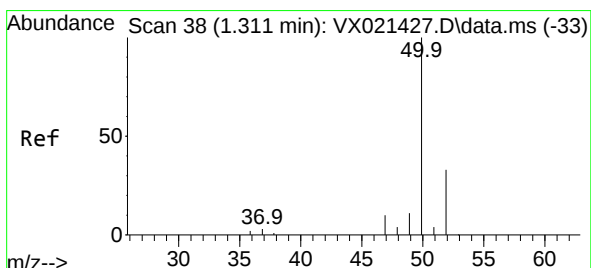
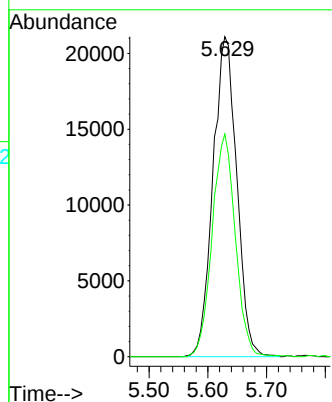
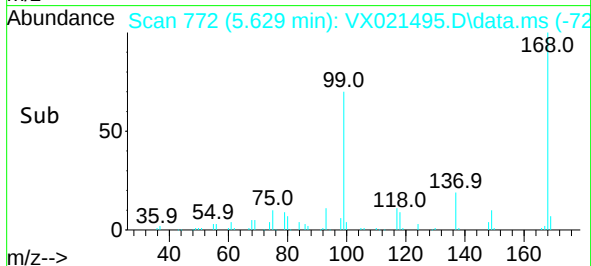


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

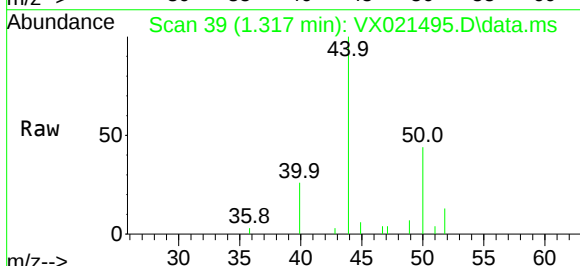
Instrument :  
MSVOA\_X  
ClientSampleId :



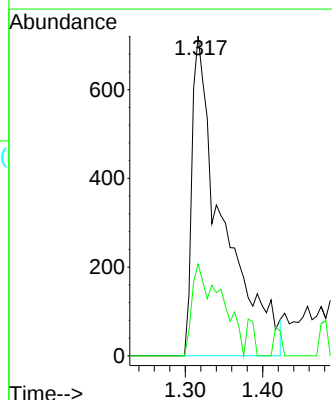
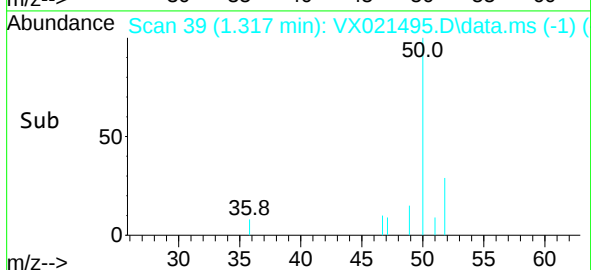
Tgt Ion:168 Resp: 59257  
Ion Ratio Lower Upper  
168 100  
99 69.6 45.8 68.6#

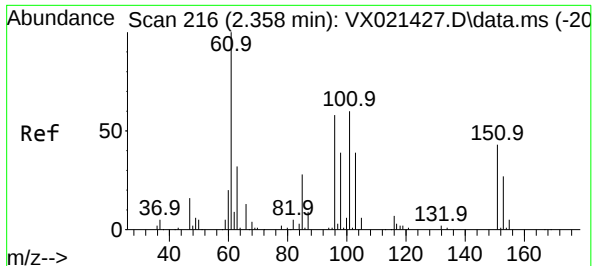


#3  
Chloromethane  
Concen: 2.68 ug/l  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39



Tgt Ion: 50 Resp: 1978  
Ion Ratio Lower Upper  
50 100  
52 28.7 26.4 39.6

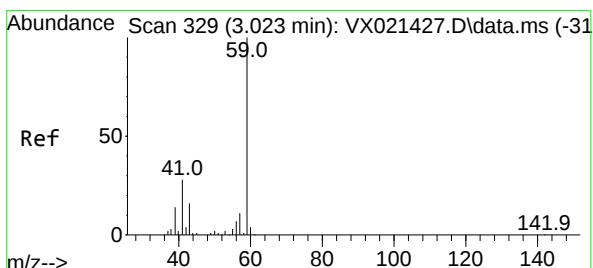
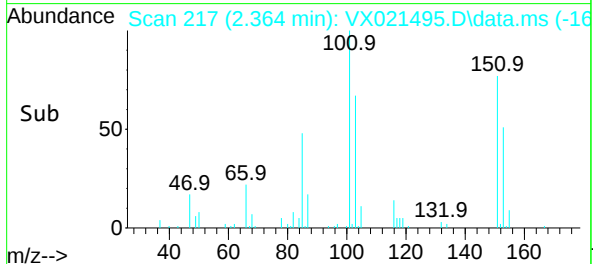
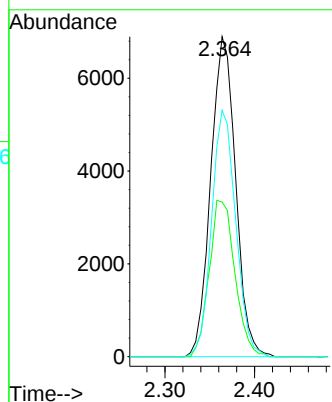
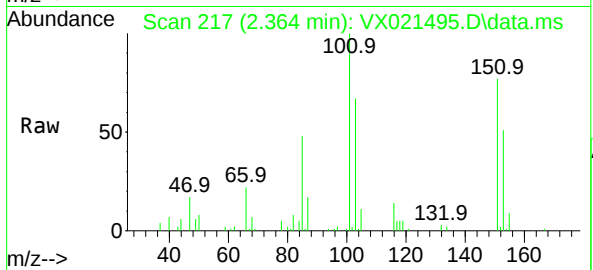




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 21.81 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. 0.006 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

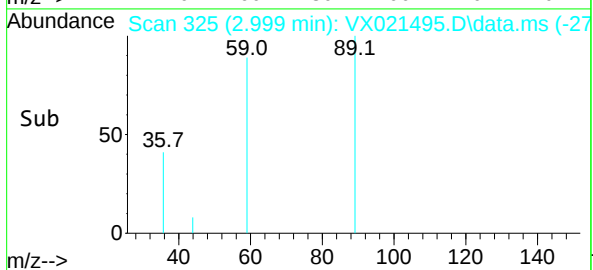
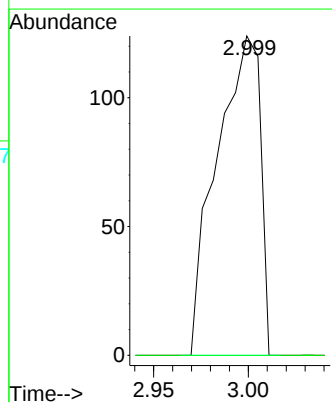
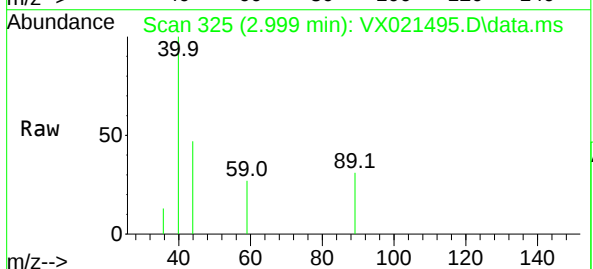
Instrument :  
MSVOA\_X  
ClientSampled :

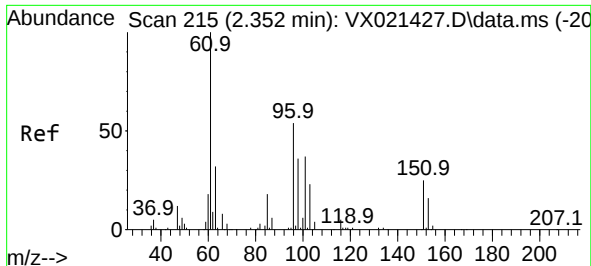
Tgt Ion:101 Resp: 13300  
Ion Ratio Lower Upper  
101 100  
85 50.5 34.9 52.3  
151 74.6 61.4 92.2



#11  
Tert butyl alcohol  
Concen: 1.21 ug/l  
RT: 2.999 min Scan# 325  
Delta R.T. -0.024 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Tgt Ion: 59 Resp: 198  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 0.23 ug/l

RT: 2.358 min Scan# 216

Delta R.T. 0.006 min

Lab File: VX021495.D

Acq: 25 Mar 2021 18:39

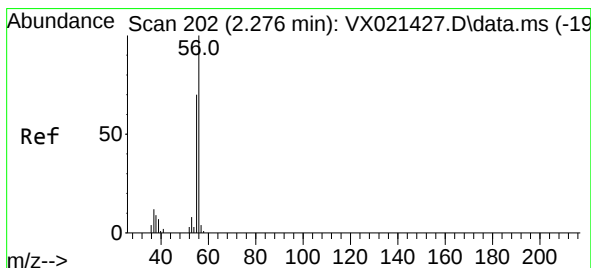
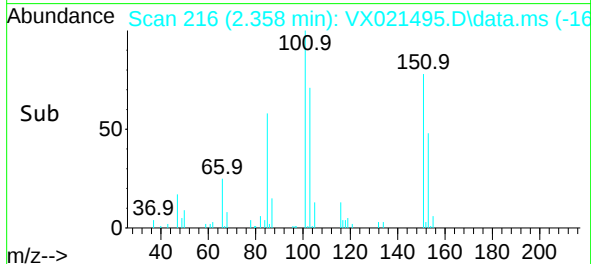
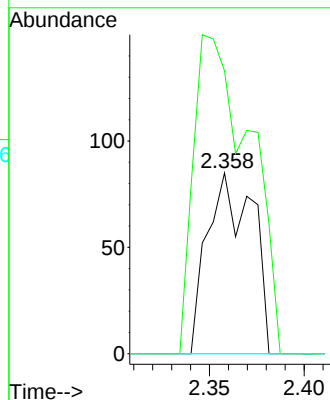
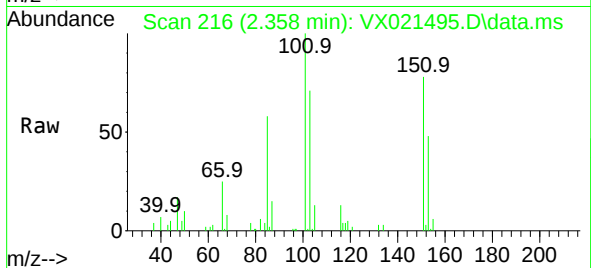
Tgt Ion: 96 Resp: 140

Ion Ratio Lower Upper

96 100

61 156.5 124.6 187.0

98 0.0 50.6 76.0#



#13

Acrolein

Concen: 5.29 ug/l

RT: 2.217 min Scan# 192

Delta R.T. -0.059 min

Lab File: VX021495.D

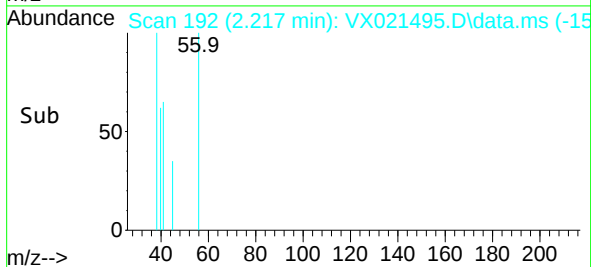
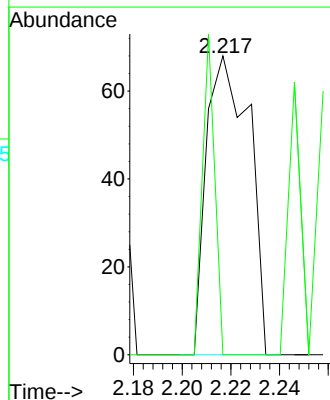
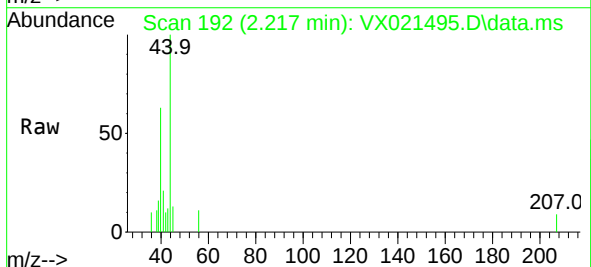
Acq: 25 Mar 2021 18:39

Tgt Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

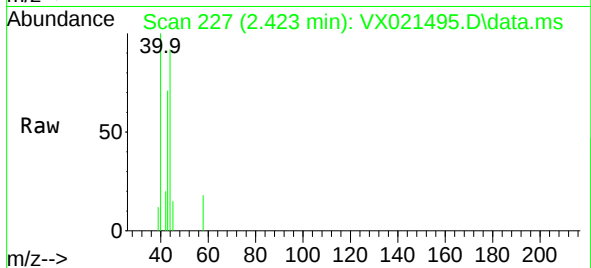
55 31.3 56.4 84.6#



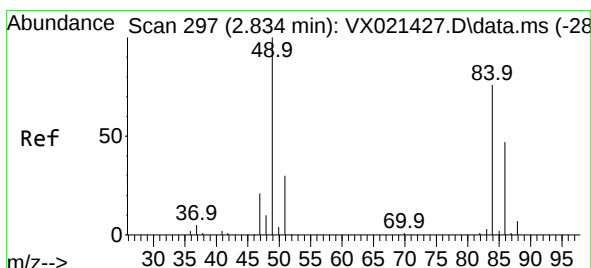
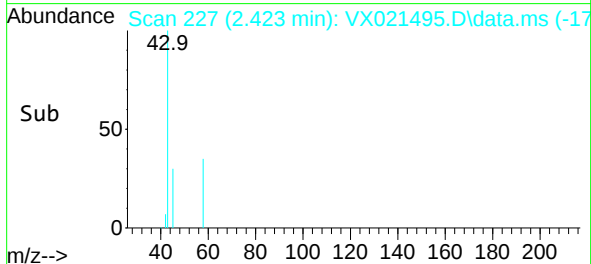
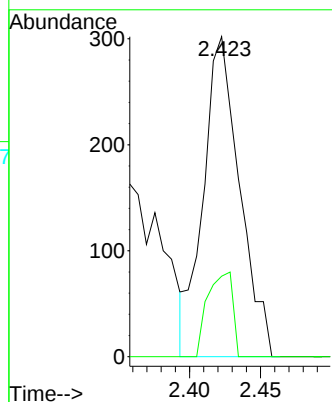


#16  
Acetone  
Concen: 1.44 ug/l  
RT: 2.423 min Scan# 227  
Delta R.T. -0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Instrument :  
MSVOA\_X  
ClientSampled :

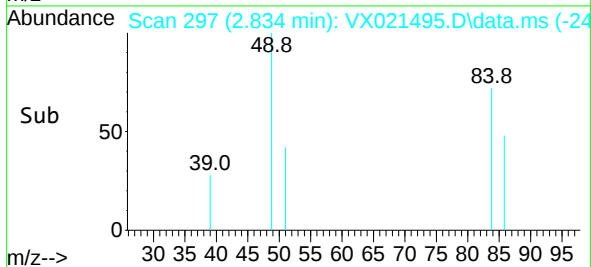
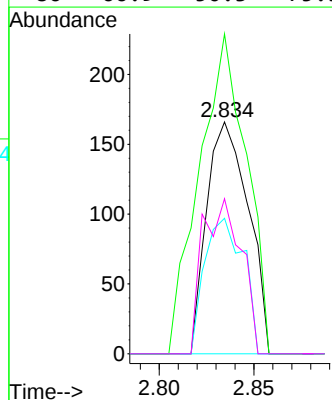
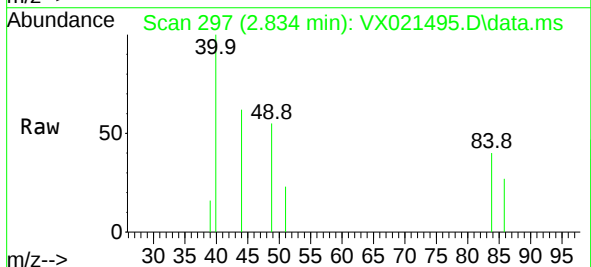


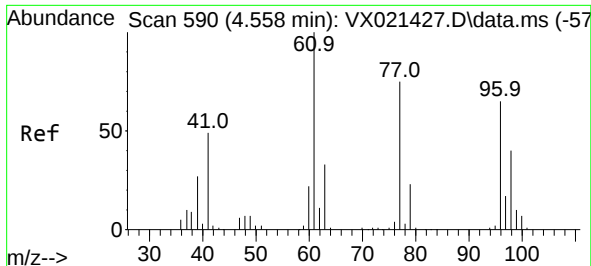
Tgt Ion: 43 Resp: 538  
Ion Ratio Lower Upper  
43 100  
58 25.2 27.8 41.8#



#20  
Methylene Chloride  
Concen: 0.35 ug/l  
RT: 2.834 min Scan# 297  
Delta R.T. 0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Tgt Ion: 84 Resp: 253  
Ion Ratio Lower Upper  
84 100  
49 138.0 88.6 132.8#  
51 58.4 27.0 40.6#  
86 66.9 50.3 75.5





#27

cis-1,2-Dichloroethene

Concen: 0.62 ug/l

RT: 4.558 min Scan# 590

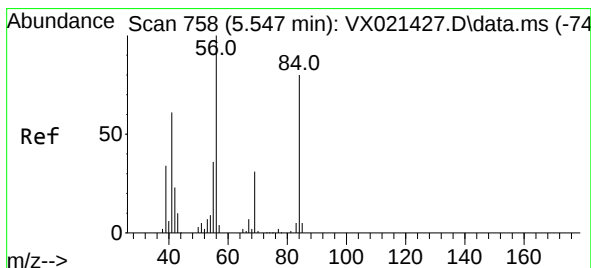
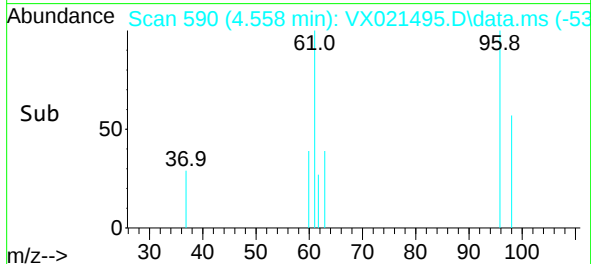
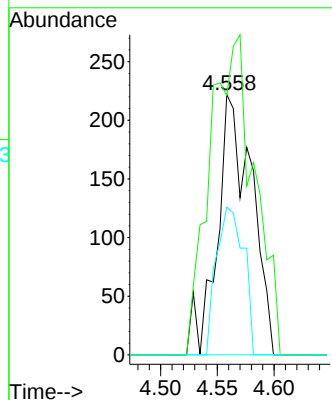
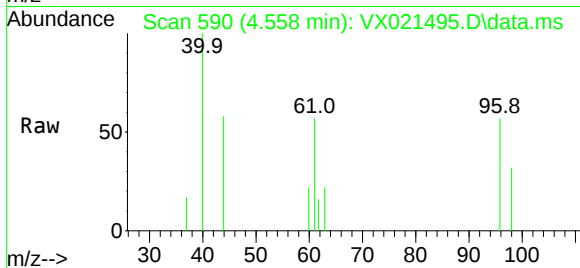
Delta R.T. 0.000 min

Lab File: VX021495.D

Acq: 25 Mar 2021 18:39

Tgt Ion: 96 Resp: 469

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 159.1 | 0.0   | 285.6 |
| 98  | 45.0  | 0.0   | 129.6 |



#31

Cyclohexane

Concen: 1.64 ug/l

RT: 5.623 min Scan# 771

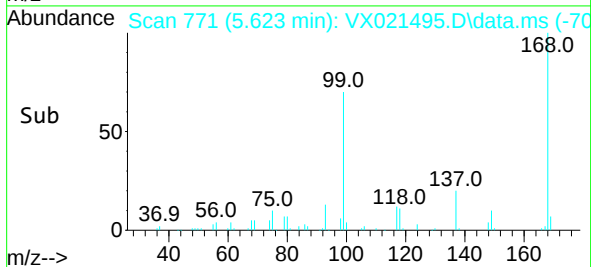
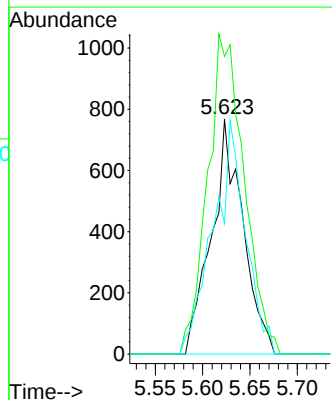
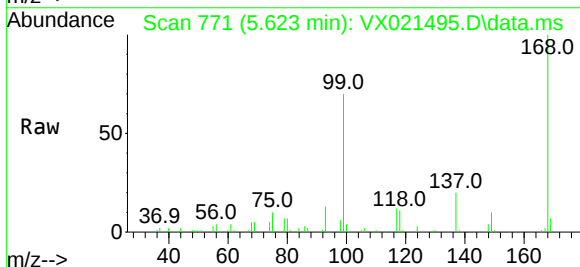
Delta R.T. 0.076 min

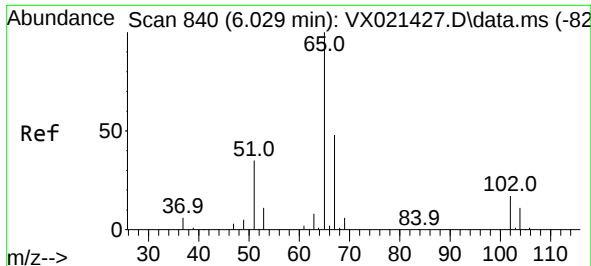
Lab File: VX021495.D

Acq: 25 Mar 2021 18:39

Tgt Ion: 56 Resp: 1773

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 126.7 | 25.3  | 37.9#  |
| 84  | 55.6  | 71.4  | 107.0# |

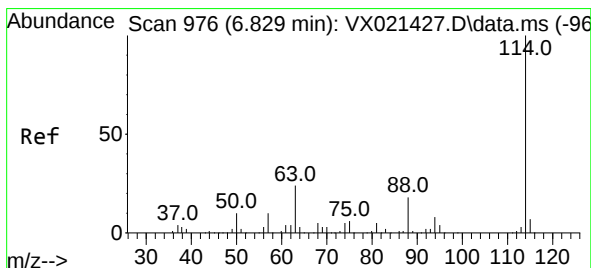
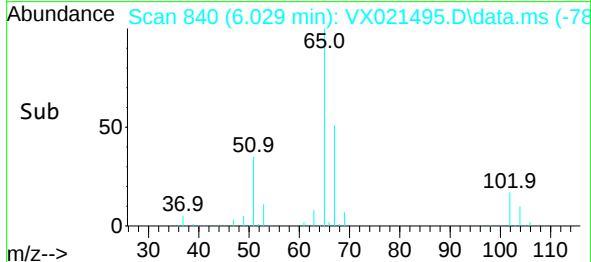
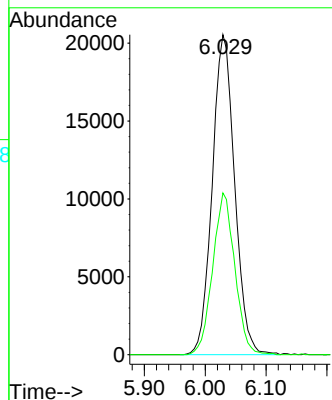
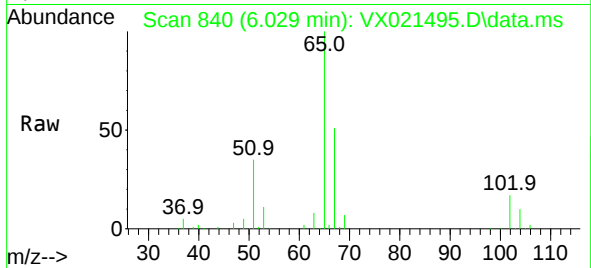




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.33 ug/l  
 RT: 6.029 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: VX021495.D  
 Acq: 25 Mar 2021 18:39

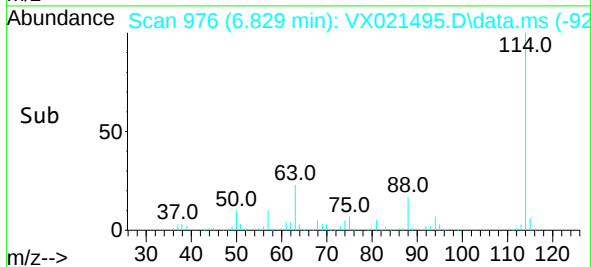
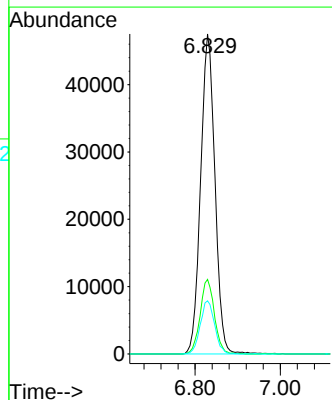
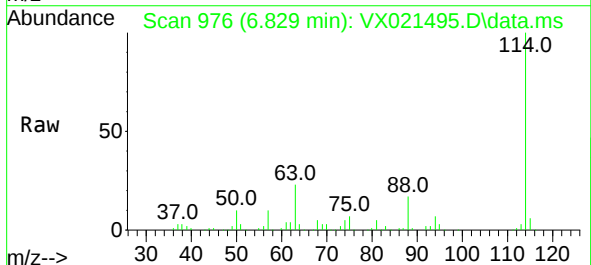
Instrument :  
 MSVOA\_X  
 ClientSampled :

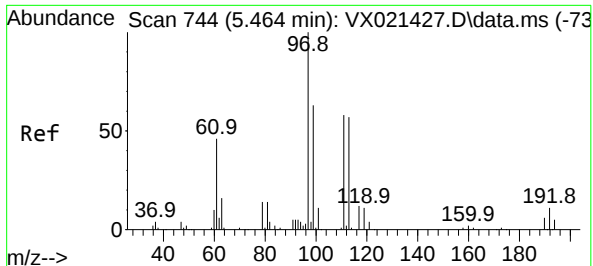
Tgt Ion: 65 Resp: 52580  
 Ion Ratio Lower Upper  
 65 100  
 67 49.8 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.829 min Scan# 976  
 Delta R.T. 0.000 min  
 Lab File: VX021495.D  
 Acq: 25 Mar 2021 18:39

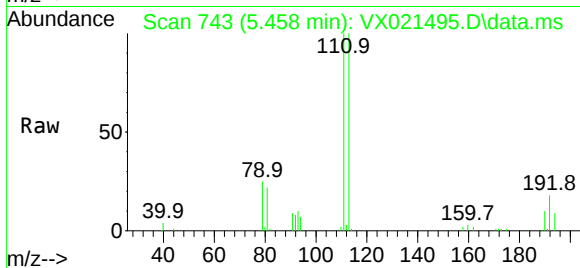
Tgt Ion: 114 Resp: 110752  
 Ion Ratio Lower Upper  
 114 100  
 63 23.3 0.0 40.8  
 88 16.6 0.0 32.8



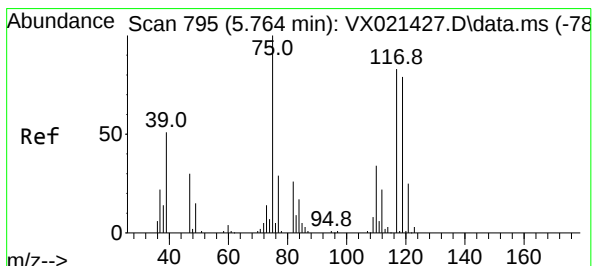
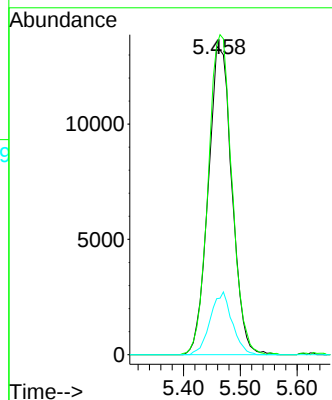
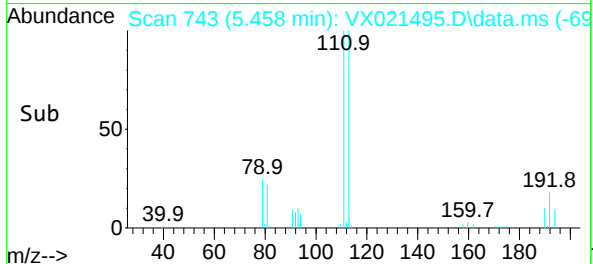


#35  
Dibromofluoromethane  
Concen: 49.31 ug/l  
RT: 5.458 min Scan# 743  
Delta R.T. -0.006 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

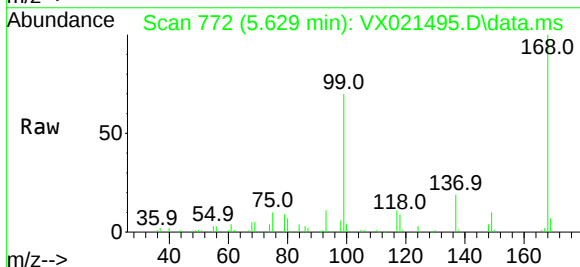
Instrument :  
MSVOA\_X  
ClientSampled :



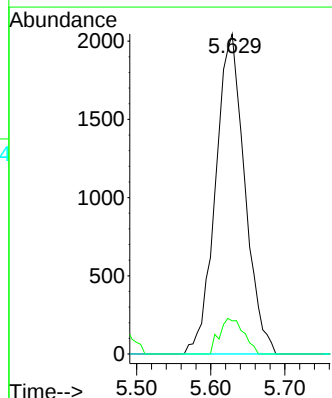
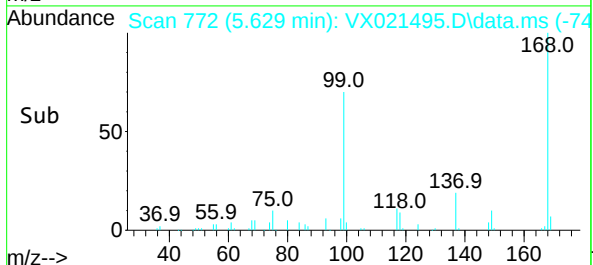
Tgt Ion:113 Resp: 38789  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.9 122.9  
192 18.7 16.7 25.1

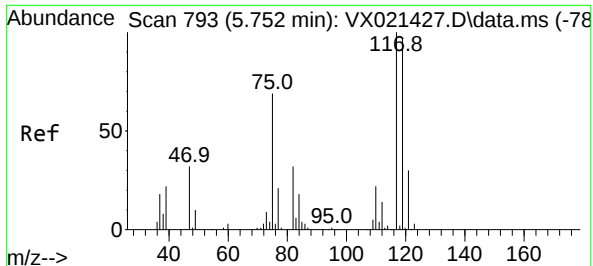


#36  
1,1-Dichloropropene  
Concen: 5.16 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.135 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39



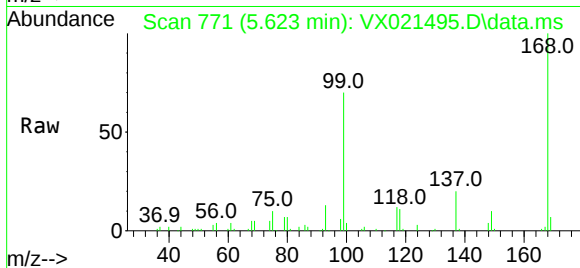
Tgt Ion: 75 Resp: 5596  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.1 54.4#  
77 0.0 25.3 37.9#



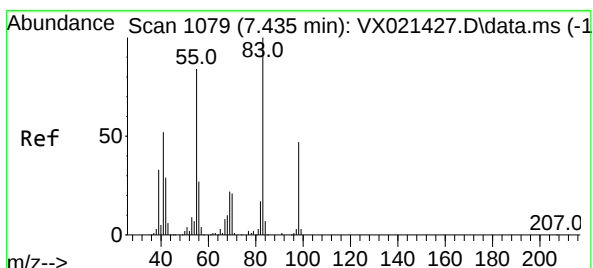
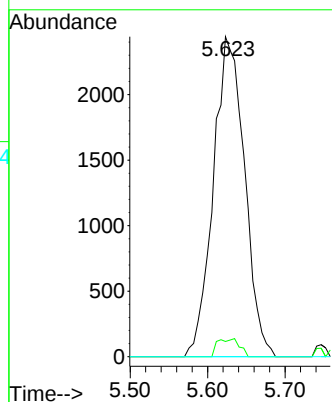
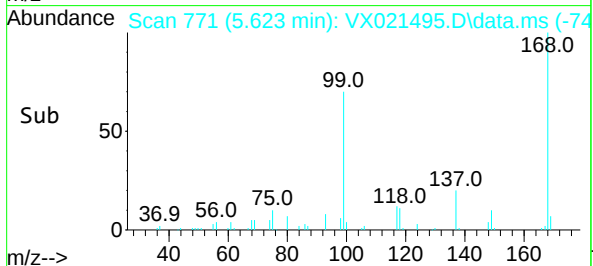


#38  
Carbon Tetrachloride  
Concen: 5.88 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.129 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

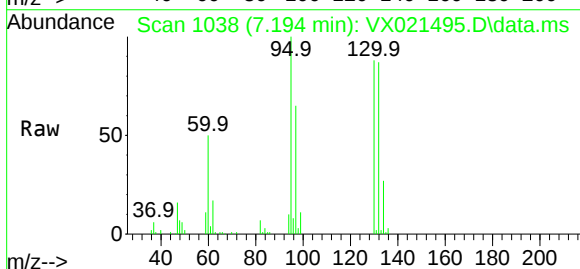
Instrument :  
MSVOA\_X  
ClientSampled :



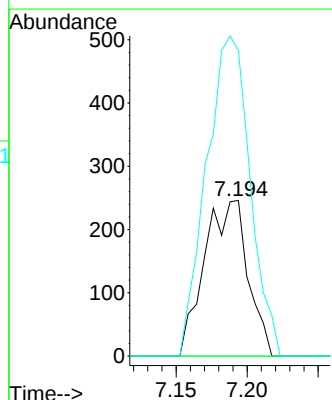
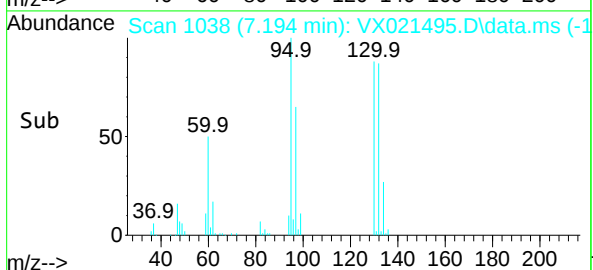
Tgt Ion:117 Resp: 6853  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.2 114.2#  
121 0.0 24.8 37.2#

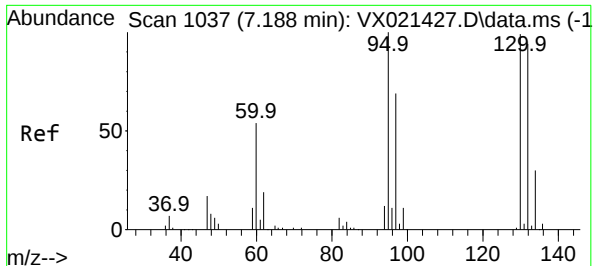


#39  
Methylcyclohexane  
Concen: 0.44 ug/l  
RT: 7.194 min Scan# 1038  
Delta R.T. -0.241 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39



Tgt Ion: 83 Resp: 525  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 196.3 38.1 57.1#

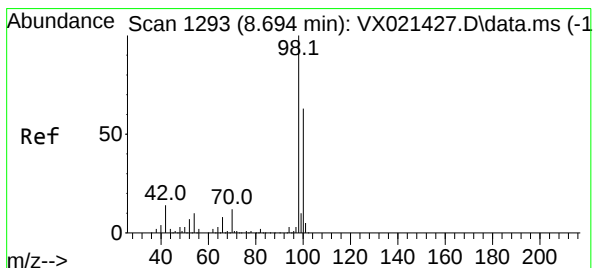
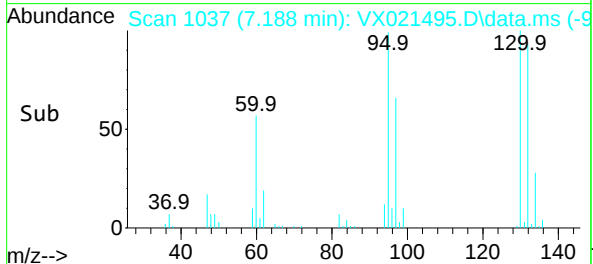
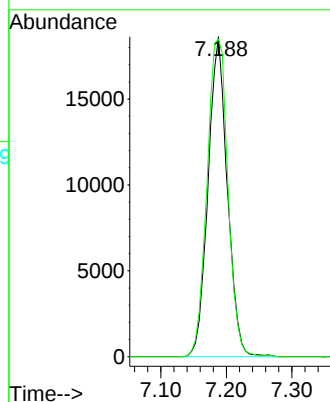
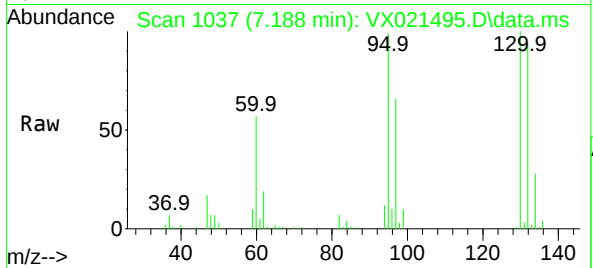




#44  
Trichloroethene  
Concen: 46.69 ug/l  
RT: 7.188 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

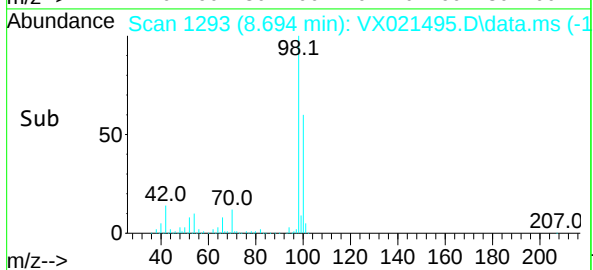
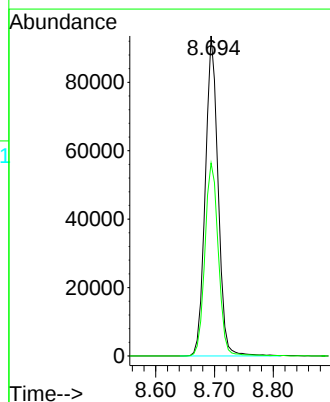
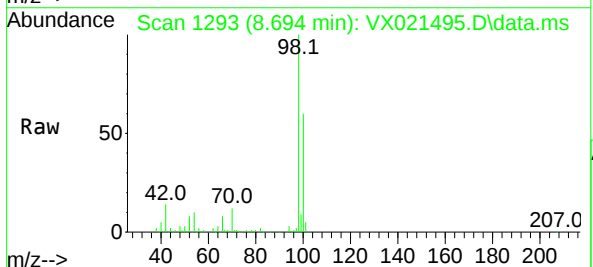
Instrument :  
MSVOA\_X  
ClientSampled :

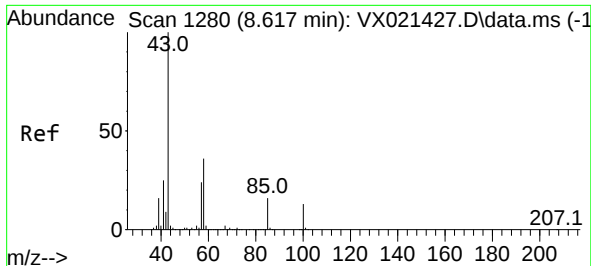
Tgt Ion:130 Resp: 37965  
Ion Ratio Lower Upper  
130 100  
95 99.3 0.0 198.0



#50  
Toluene-d8  
Concen: 50.47 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. 0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Tgt Ion: 98 Resp: 141483  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.9 77.9

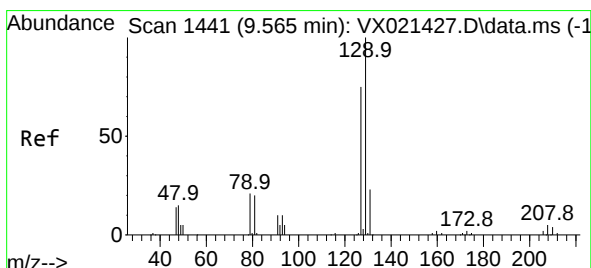
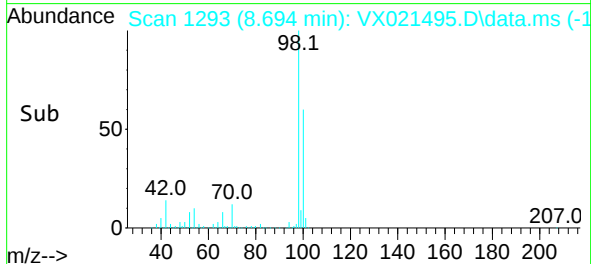
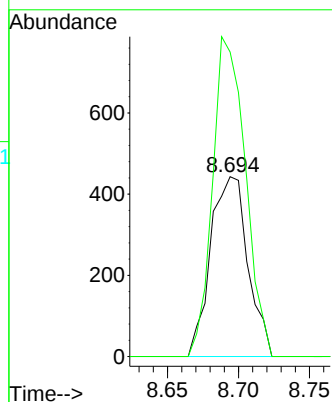
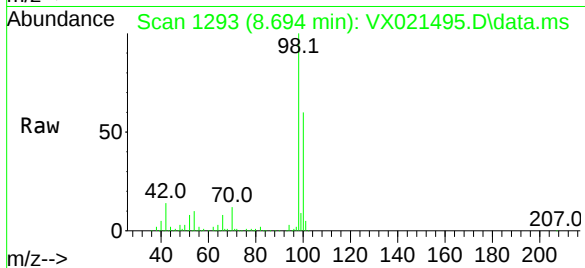




#51  
4-Methyl-2-Pentanone  
Concen: 0.64 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. 0.077 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

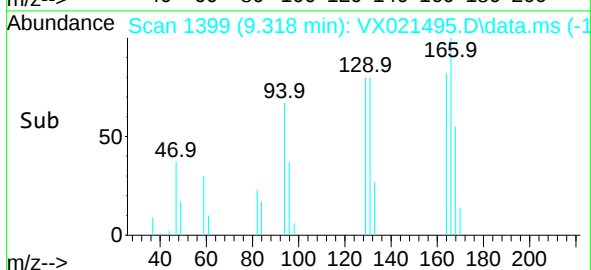
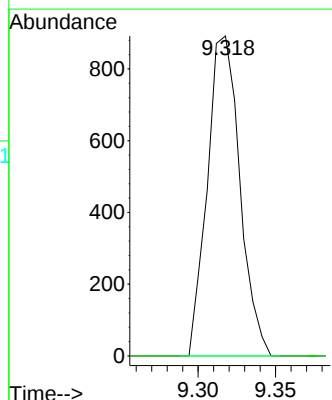
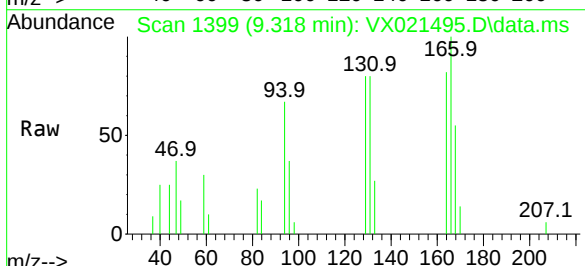
Instrument :  
MSVOA\_X  
ClientSampled :

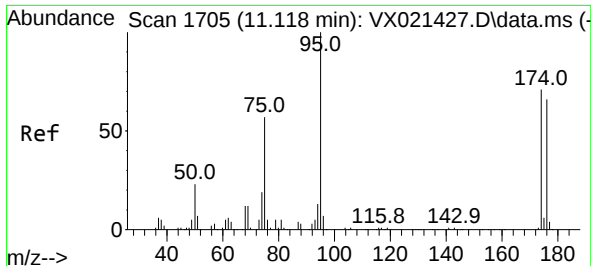
Tgt Ion: 43 Resp: 808  
Ion Ratio Lower Upper  
43 100  
58 156.6 35.4 53.0#



#60  
Dibromochloromethane  
Concen: 1.45 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Tgt Ion: 129 Resp: 1303  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

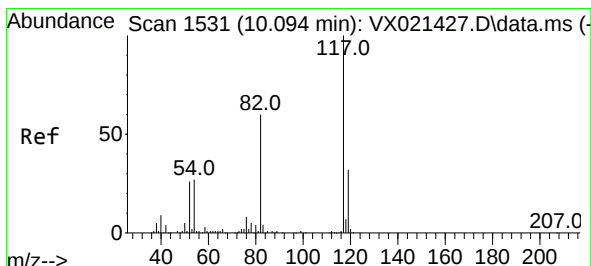
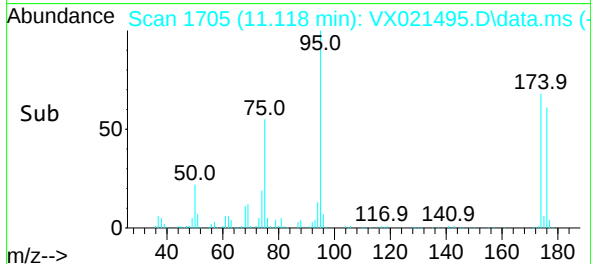
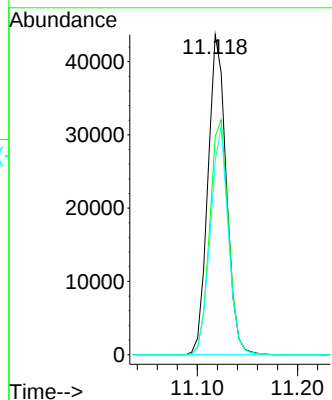
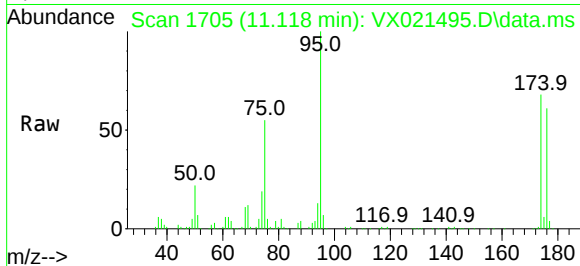




#62  
4-Bromofluorobenzene  
Concen: 51.13 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

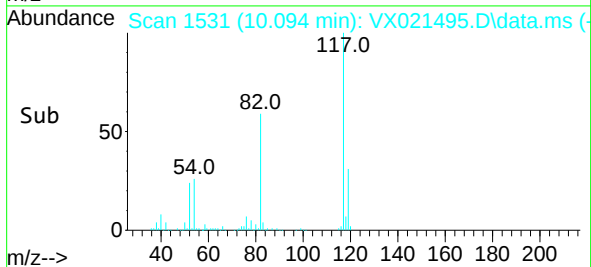
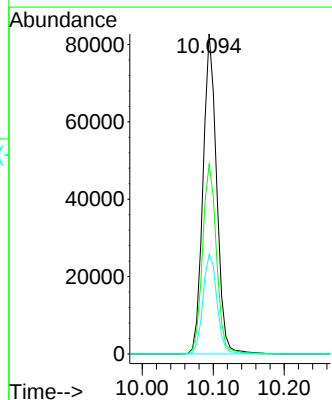
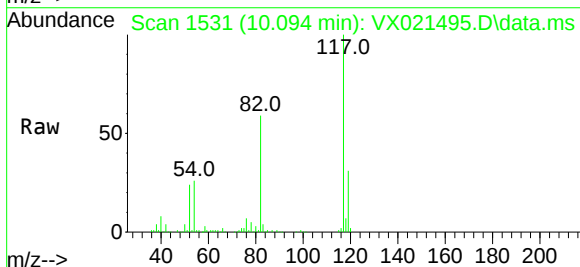
Instrument :  
MSVOA\_X  
ClientSampled :

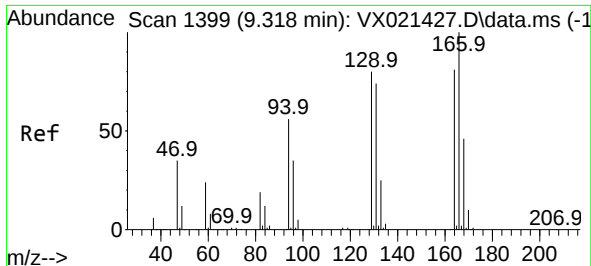
Tgt Ion: 95 Resp: 55727  
Ion Ratio Lower Upper  
95 100  
174 75.2 0.0 154.6  
176 69.8 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

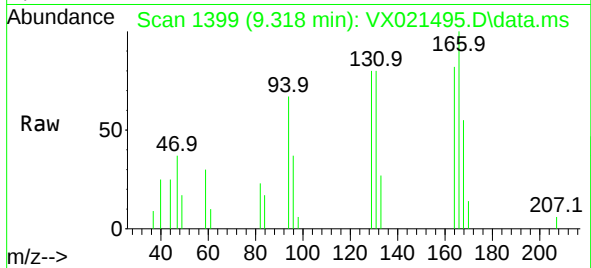
Tgt Ion: 117 Resp: 110758  
Ion Ratio Lower Upper  
117 100  
82 59.3 47.4 71.2  
119 31.2 26.6 39.8





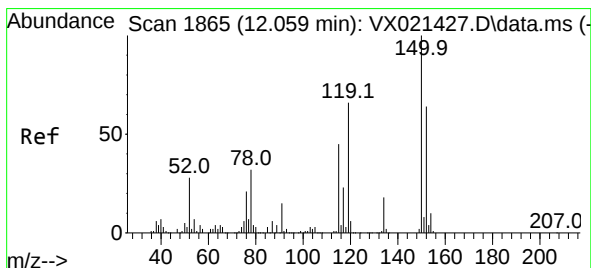
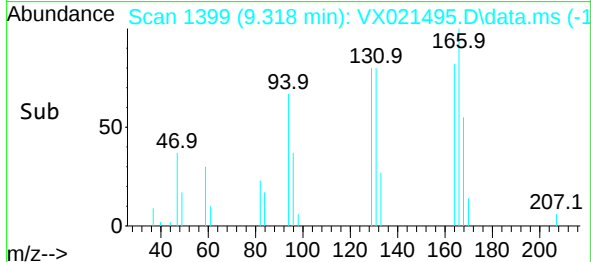
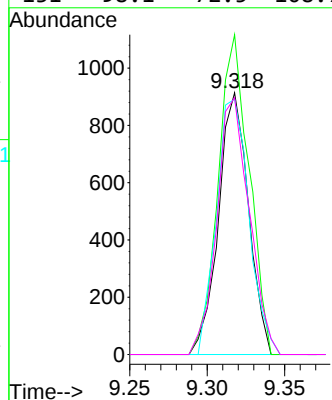
#64  
Tetrachloroethene  
Concen: 1.66 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Instrument :  
MSVOA\_X  
ClientSampleId :

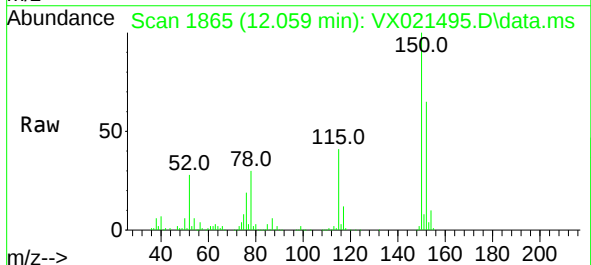


Tgt Ion:164 Resp: 1231

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 122.2 | 103.4 | 155.2 |
| 129 | 97.6  | 70.8  | 106.2 |
| 131 | 98.1  | 72.5  | 108.7 |

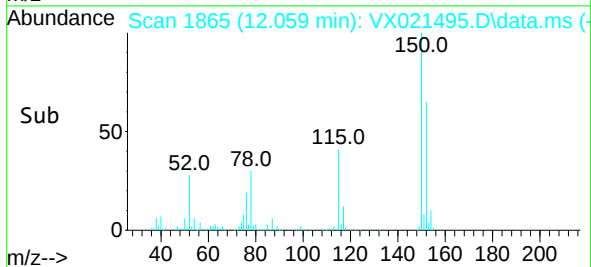
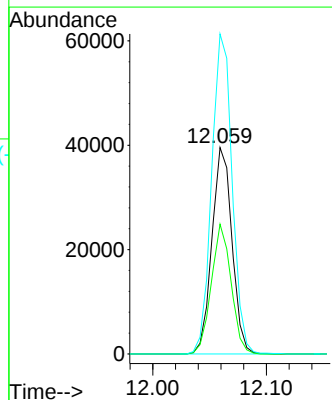


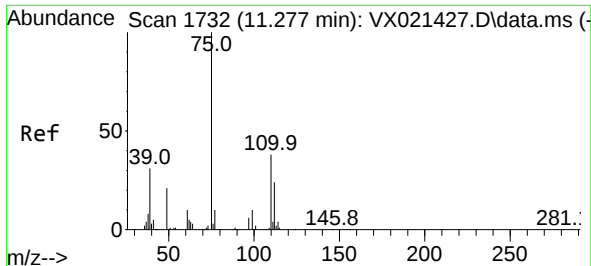
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39



Tgt Ion:152 Resp: 48569

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.8  | 41.1  | 123.3 |
| 150 | 158.1 | 0.0   | 349.0 |

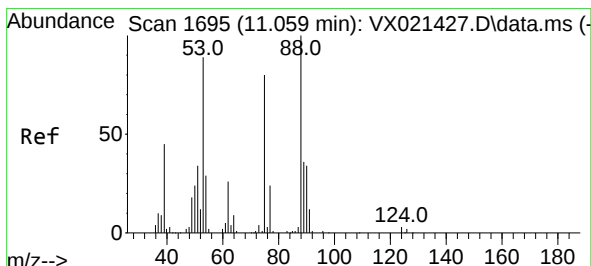
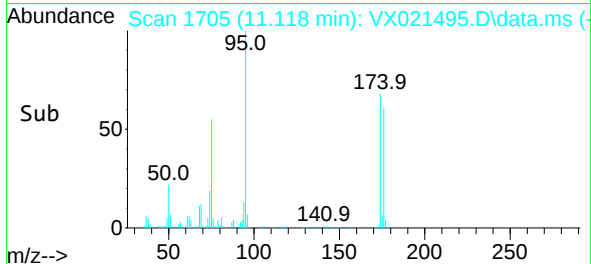
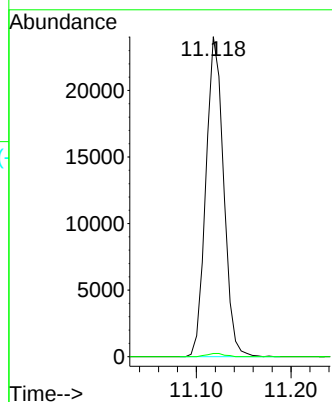
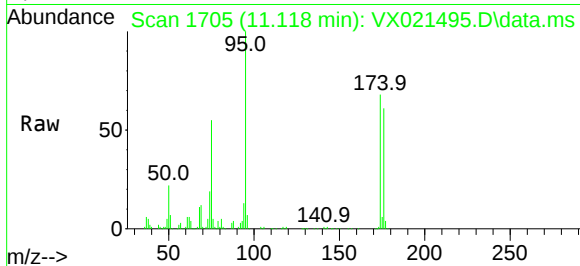




#76  
1,2,3-Trichloropropane  
Concen: 27.64 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 31248  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.18 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021495.D  
Acq: 25 Mar 2021 18:39

Tgt Ion: 75 Resp: 31248  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

