

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091721\  
 Data File : VX024316.D  
 Acq On : 17 Sep 2021 17:55  
 Operator : JC/MD  
 Sample : M3782-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20210914

Quant Time: Sep 20 01:59:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 14 12:18:04 2021  
 Response via : Initial Calibration

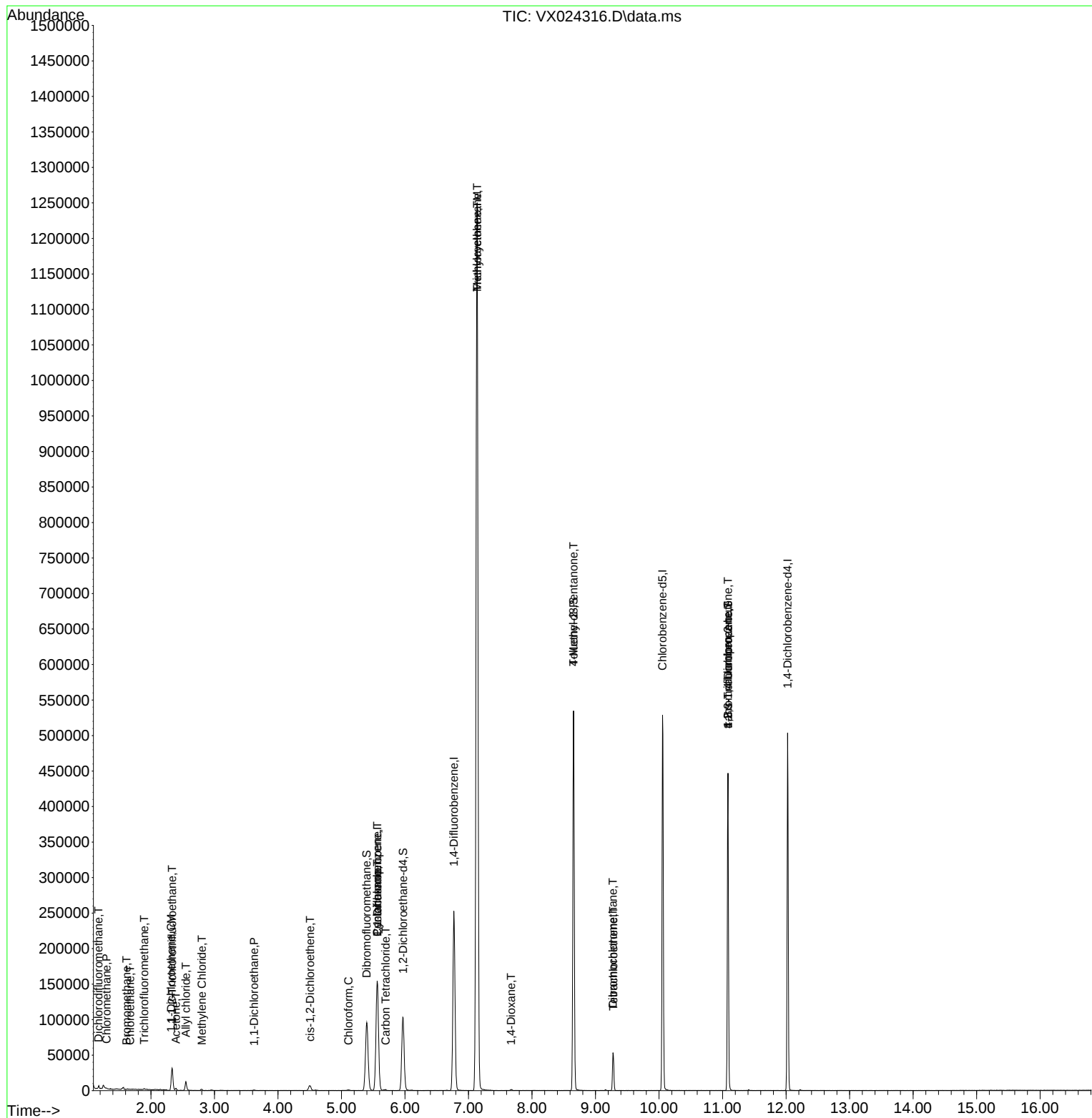
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 144816   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 246849   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 236826   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 102608   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65    | 106963   | 51.797    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 103.600% |          |
| 35) Dibromofluoromethane      | 5.397  | 113   | 84061    | 50.778    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 101.560% |          |
| 50) Toluene-d8                | 8.653  | 98    | 304282   | 50.454    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 100.900% |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 112232   | 47.820    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 95.640%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.172  | 85    | 915      | 0.657     | ug/l       | 92       |
| 3) Chloromethane              | 1.300  | 50    | 550      | 0.378     | ug/l       | 96       |
| 5) Bromomethane               | 1.617  | 94    | 504      | 0.585     | ug/l #     | 70       |
| 6) Chloroethane               | 1.672  | 64    | 195      | 2.161     | ug/l #     | 43       |
| 7) Trichlorofluoromethane     | 1.892  | 101   | 733      | 0.302     | ug/l #     | 79       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 10499    | 7.364     | ug/l       | 94       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 444      | Below Cal | #          | 73       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 1977     | 1.481     | ug/l       | 96       |
| 14) Allyl chloride            | 2.550  | 41    | 1200     | 0.495     | ug/l #     | 48       |
| 16) Acetone                   | 2.392  | 43    | 2620     | 2.976     | ug/l       | 91       |
| 20) Methylene Chloride        | 2.800  | 84    | 738      | 0.436     | ug/l #     | 92       |
| 24) 1,1-Dichloroethane        | 3.623  | 63    | 926      | 0.331     | ug/l #     | 81       |
| 27) cis-1,2-Dichloroethene    | 4.507  | 96    | 4362     | 2.584     | ug/l       | 96       |
| 30) Chloroform                | 5.111  | 83    | 1210     | 0.407     | ug/l #     | 79       |
| 31) Cyclohexane               | 5.562  | 56    | 3102     | 1.284     | ug/l #     | 7        |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 11343    | 4.998     | ug/l #     | 45       |
| 38) Carbon Tetrachloride      | 5.696  | 117   | 1116     | 0.437     | ug/l       | 98       |
| 39) Methylcyclohexane         | 7.135  | 83    | 5825     | 2.150     | ug/l #     | 1        |
| 44) Trichloroethene           | 7.135  | 130   | 467745   | 255.751   | ug/l       | 96       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 1149     | 26.126    | ug/l       | 89       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1381     | 0.515     | ug/l #     | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 9697     | 6.270     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.281  | 164   | 10094    | 5.502     | ug/l       | 90       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 59979    | 25.422    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 59979    | 74.765    | ug/l #     | 12       |
| -----                         |        |       |          |           |            |          |

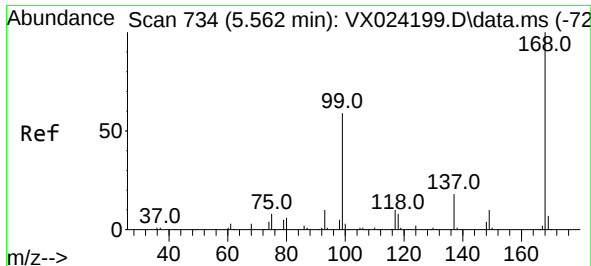
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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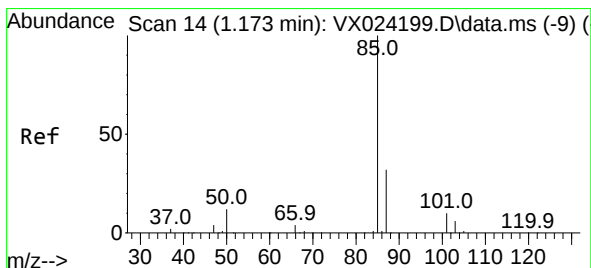
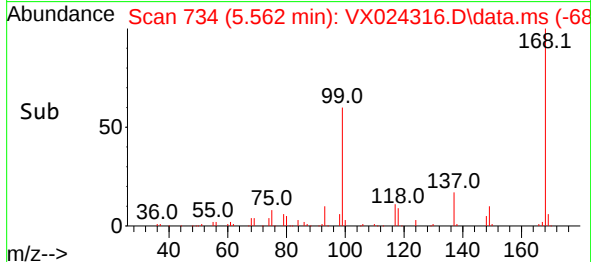
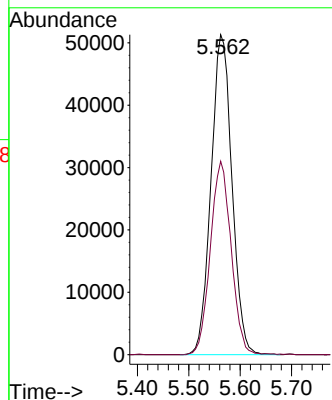
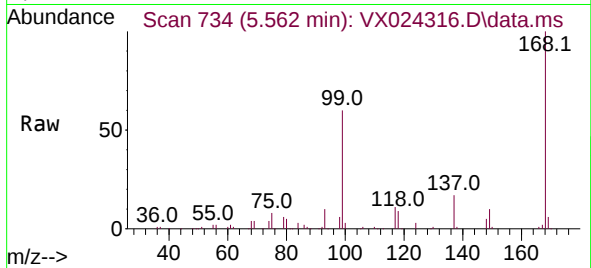




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

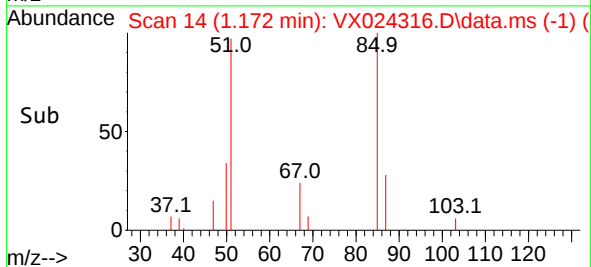
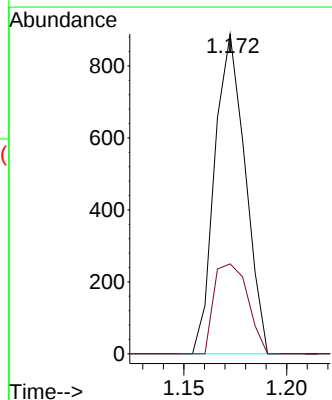
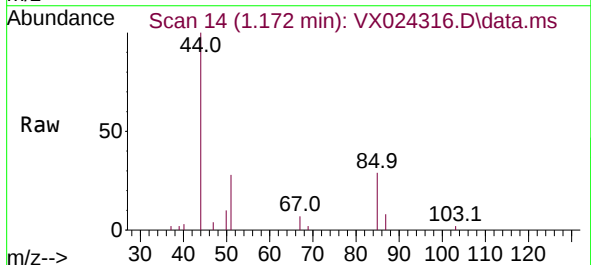
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

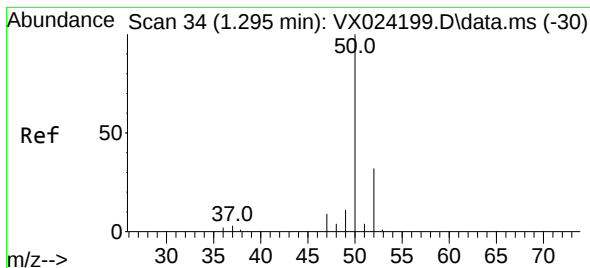
Tgt Ion:168 Resp: 144816  
Ion Ratio Lower Upper  
168 100  
99 60.5 45.8 68.6



#2  
Dichlorodifluoromethane  
Concen: 0.657 ug/l  
RT: 1.172 min Scan# 14  
Delta R.T. -0.001 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 85 Resp: 915  
Ion Ratio Lower Upper  
85 100  
87 28.1 16.4 49.2

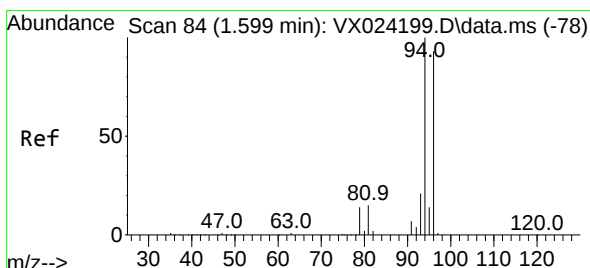
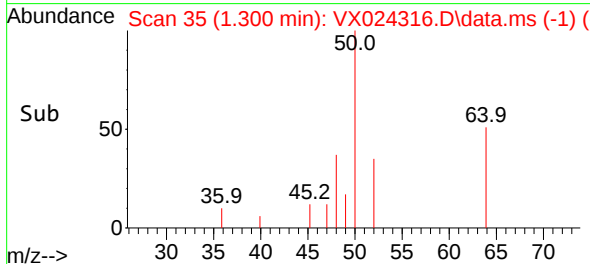
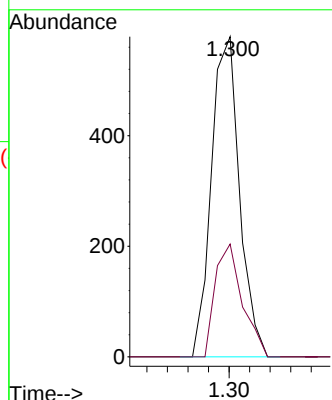
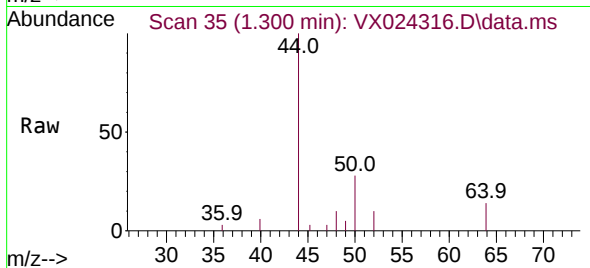




#3  
Chloromethane  
Concen: 0.378 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. 0.005 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

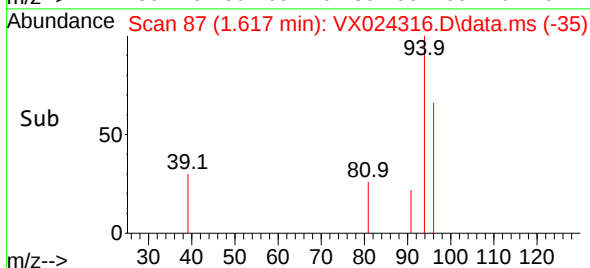
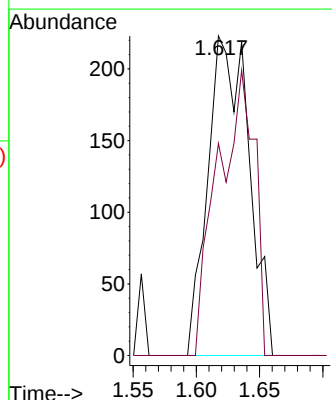
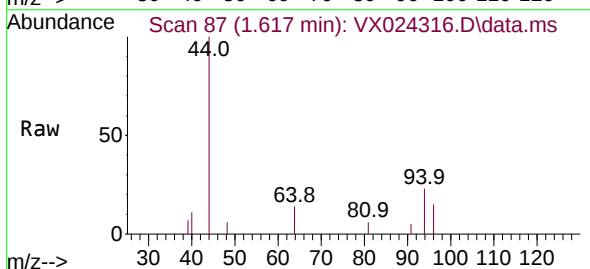
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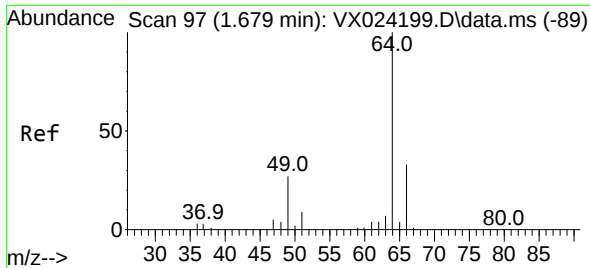
Tgt Ion: 50 Resp: 550  
Ion Ratio Lower Upper  
50 100  
52 35.2 26.4 39.6



#5  
Bromomethane  
Concen: 0.585 ug/l  
RT: 1.617 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 94 Resp: 504  
Ion Ratio Lower Upper  
94 100  
96 66.4 76.4 114.6#

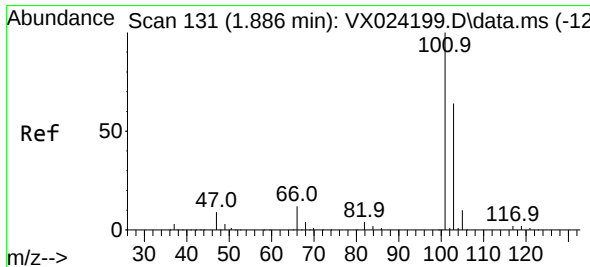
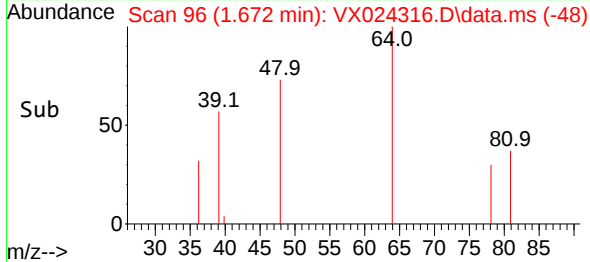
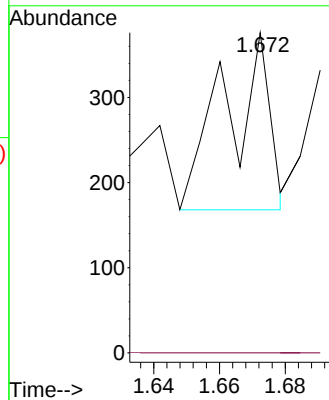
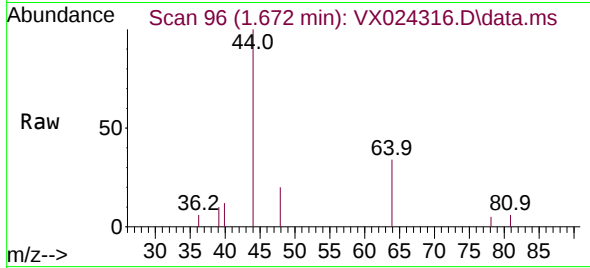




#6  
Chloroethane  
Concen: 2.161 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. -0.007 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

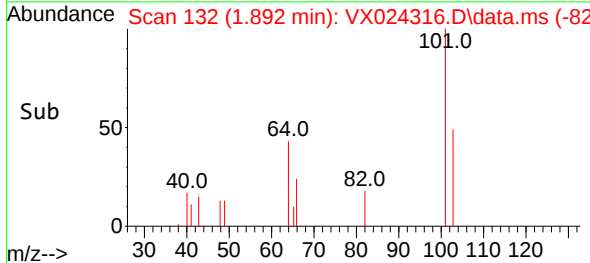
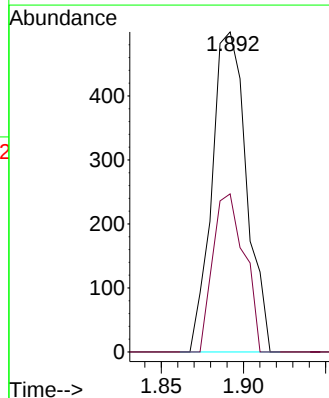
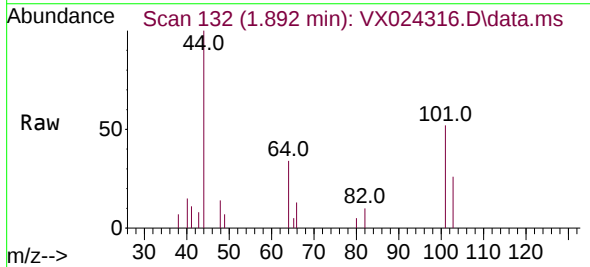
Instrument :  
MSVOA\_X  
ClientSampleId :  
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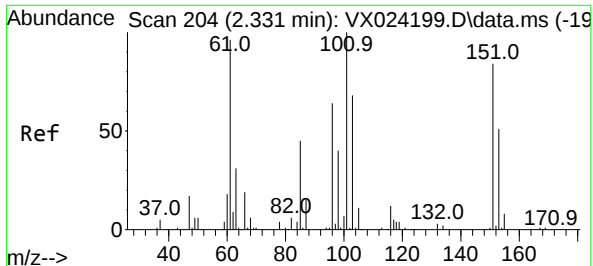
Tgt Ion: 64 Resp: 195  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#7  
Trichlorofluoromethane  
Concen: 0.302 ug/l  
RT: 1.892 min Scan# 132  
Delta R.T. 0.006 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 101 Resp: 733  
Ion Ratio Lower Upper  
101 100  
103 49.4 53.2 79.8#

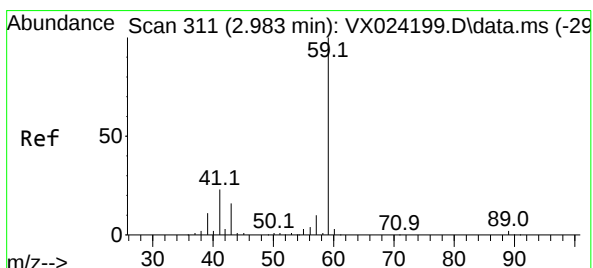
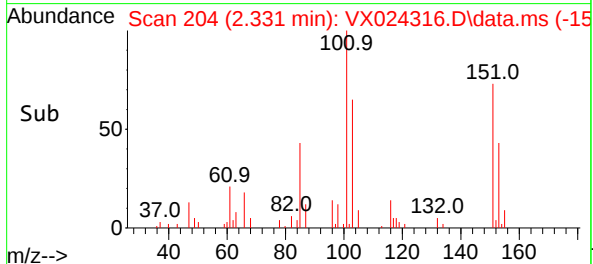
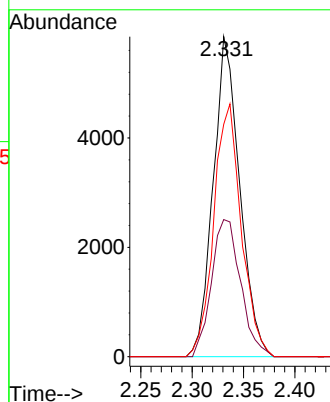
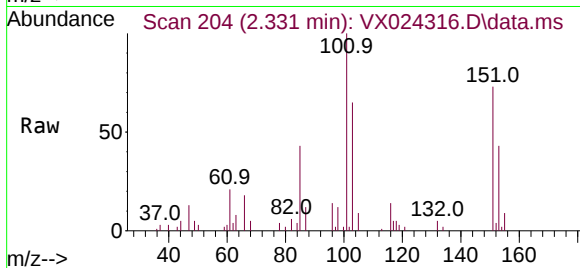




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 7.364 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

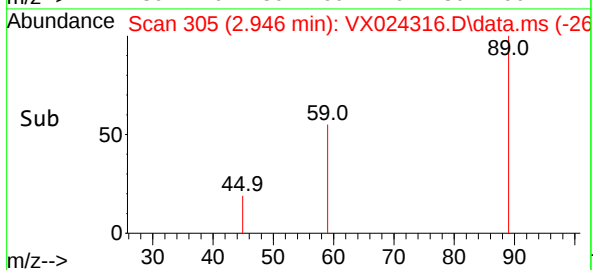
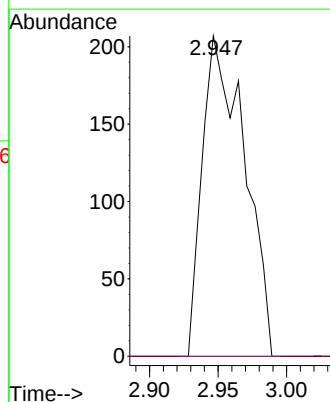
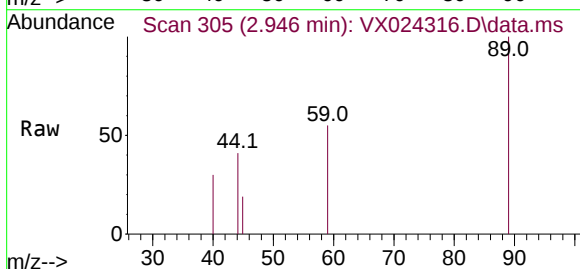
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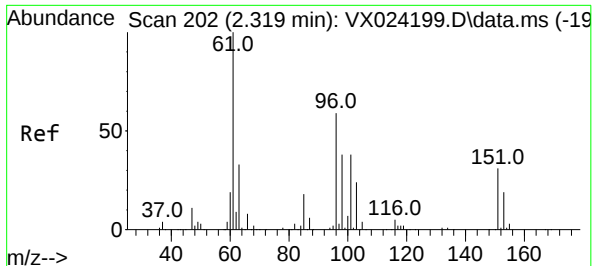
Tgt Ion:101 Resp: 10499  
Ion Ratio Lower Upper  
101 100  
85 47.1 34.9 52.3  
151 81.9 61.4 92.2



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.946 min Scan# 305  
Delta R.T. -0.037 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 59 Resp: 444  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 1.481 ug/l

RT: 2.319 min Scan# 202

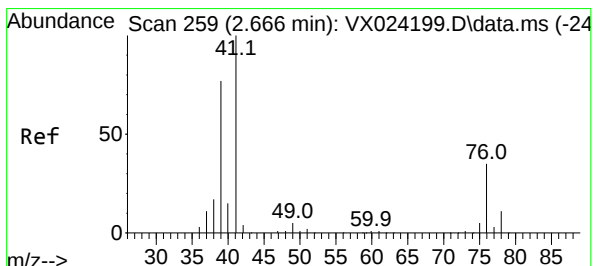
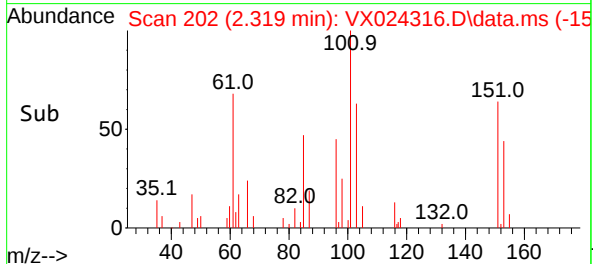
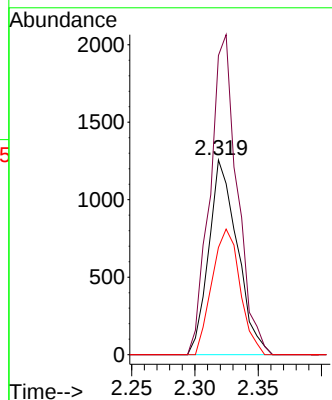
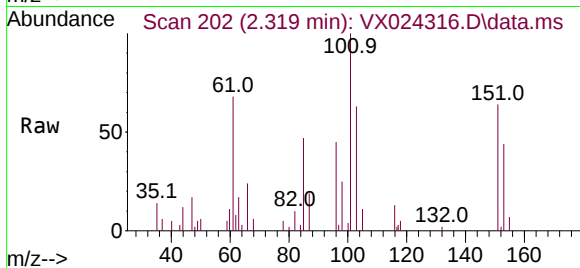
Delta R.T. -0.000 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

Tgt Ion: 96 Resp: 1977

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 153.6 | 124.6 | 187.0 |
| 98  | 55.1  | 50.6  | 76.0  |



#14

Allyl chloride

Concen: 0.495 ug/l

RT: 2.550 min Scan# 240

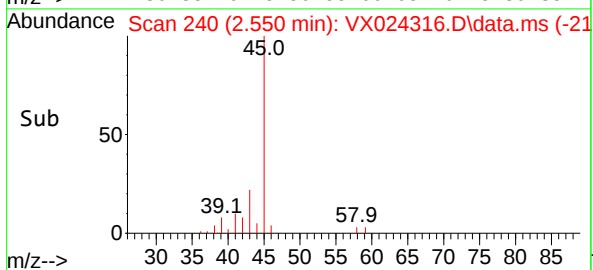
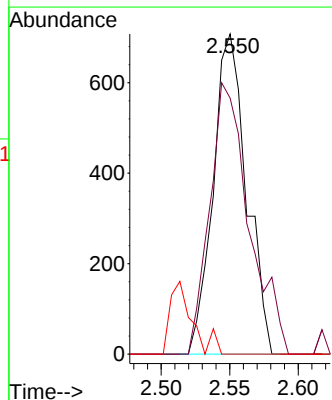
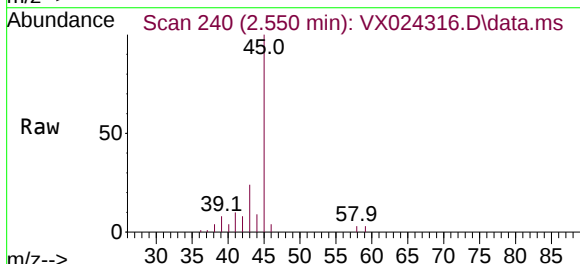
Delta R.T. -0.116 min

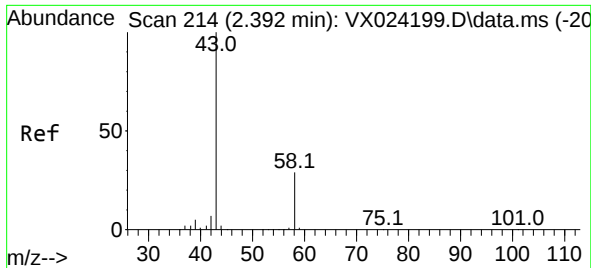
Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

Tgt Ion: 41 Resp: 1200

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 99.8  | 51.6  | 77.4# |
| 76  | 0.0   | 30.5  | 45.7# |

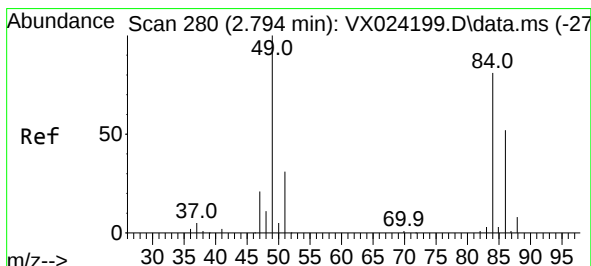
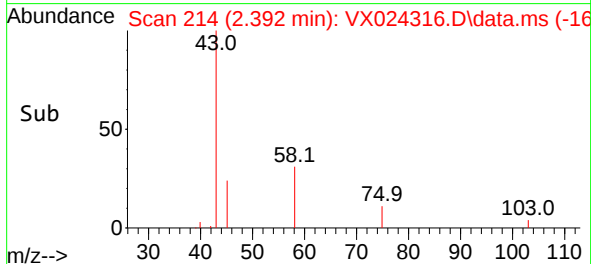
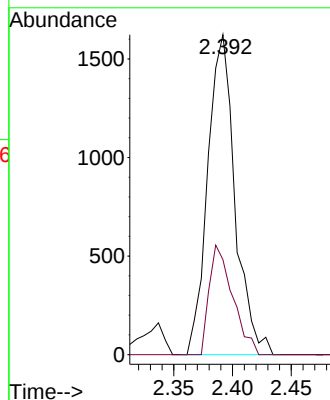
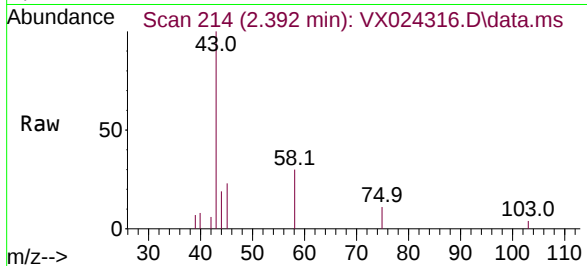




#16  
Acetone  
Concen: 2.976 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

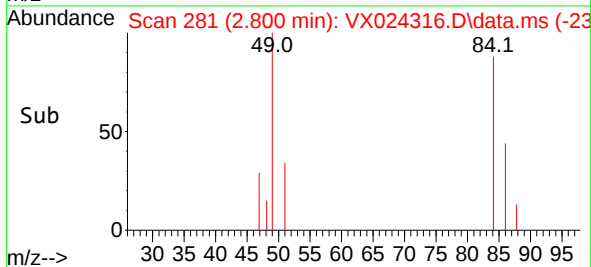
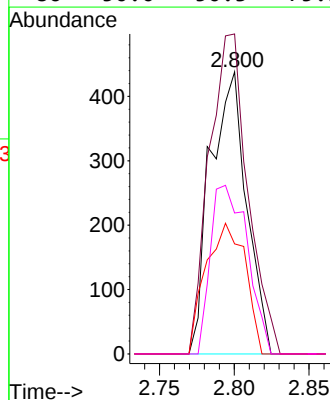
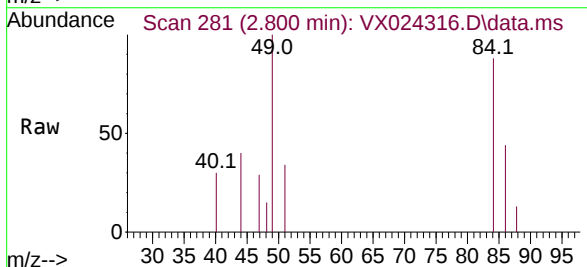
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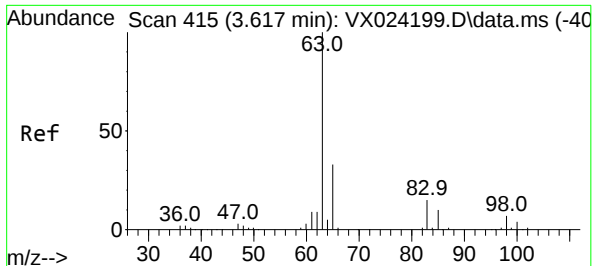
Tgt Ion: 43 Resp: 2620  
Ion Ratio Lower Upper  
43 100  
58 29.7 27.8 41.8



#20  
Methylene Chloride  
Concen: 0.436 ug/l  
RT: 2.800 min Scan# 281  
Delta R.T. 0.006 min  
Lab File: VX024316.D  
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Tgt Ion: 84 Resp: 738  
Ion Ratio Lower Upper  
84 100  
49 113.5 88.6 132.8  
51 39.0 27.0 40.6  
86 50.0 50.3 75.5#

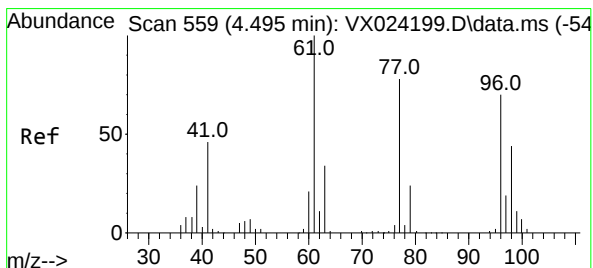
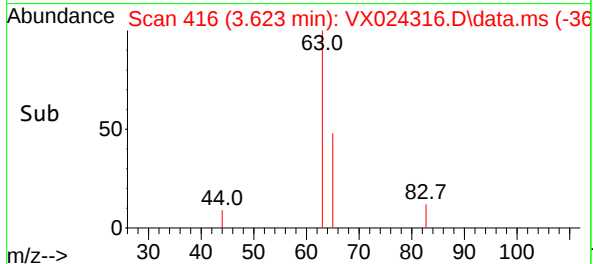
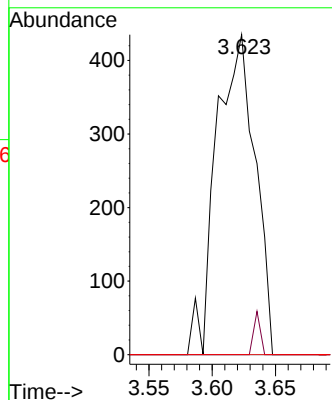
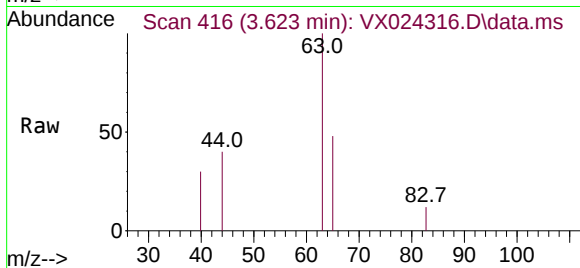




#24  
1,1-Dichloroethane  
Concen: 0.331 ug/l  
RT: 3.623 min Scan# 416  
Delta R.T. 0.006 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

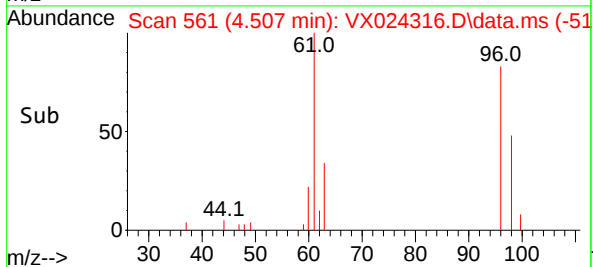
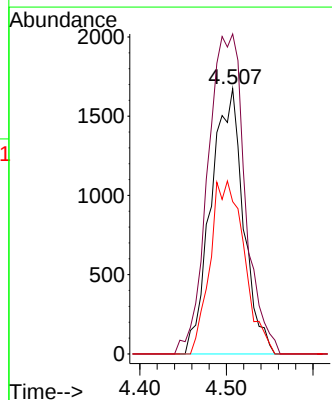
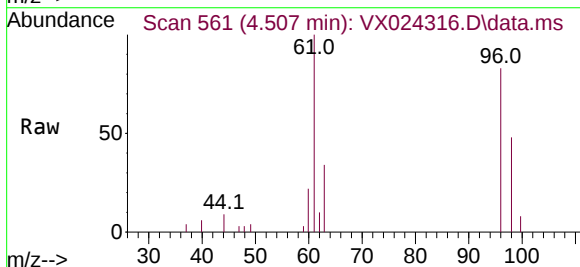
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

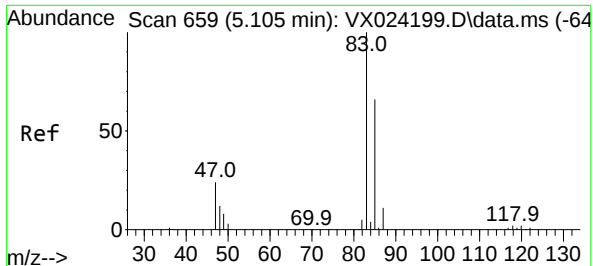
Tgt Ion: 63 Resp: 926  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.8 11.2#  
100 0.0 2.5 7.5#



#27  
cis-1,2-Dichloroethene  
Concen: 2.584 ug/l  
RT: 4.507 min Scan# 561  
Delta R.T. 0.012 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 96 Resp: 4362  
Ion Ratio Lower Upper  
96 100  
61 138.2 0.0 285.6  
98 68.6 0.0 129.6





#30

Chloroform

Concen: 0.407 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.006 min

Lab File: VX024316.D

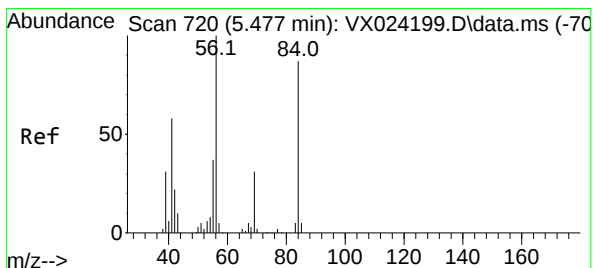
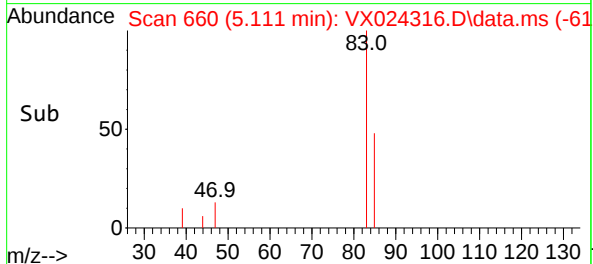
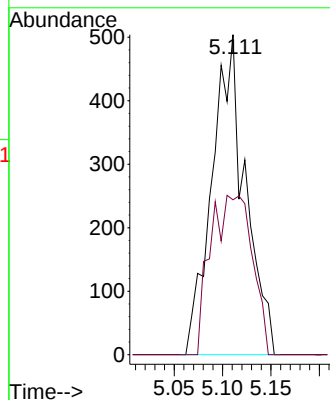
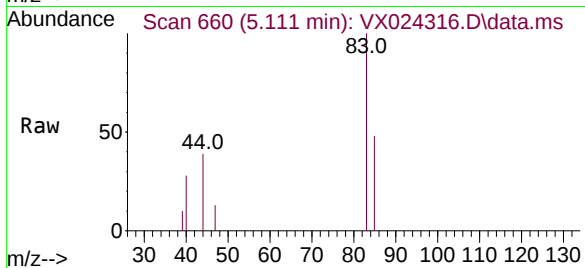
Acq: 17 Sep 2021 17:55

Tgt Ion: 83 Resp: 1210

Ion Ratio Lower Upper

83 100

85 48.4 52.0 78.0#



#31

Cyclohexane

Concen: 1.284 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.085 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

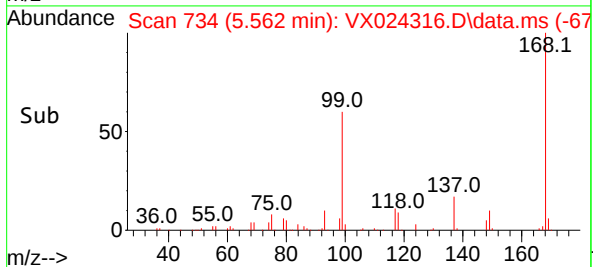
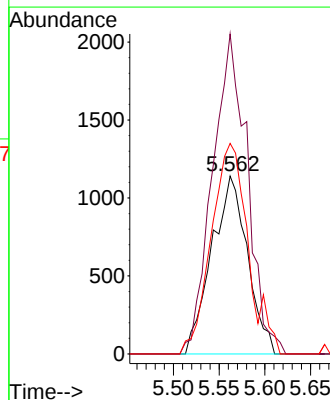
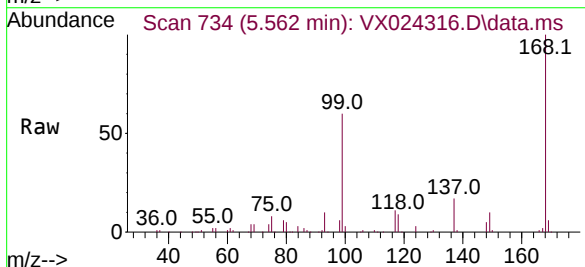
Tgt Ion: 56 Resp: 3102

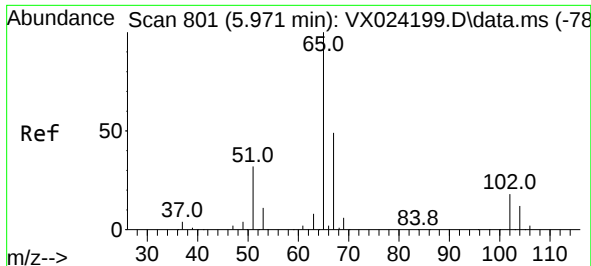
Ion Ratio Lower Upper

56 100

69 179.8 25.3 37.9#

84 118.3 71.4 107.0#



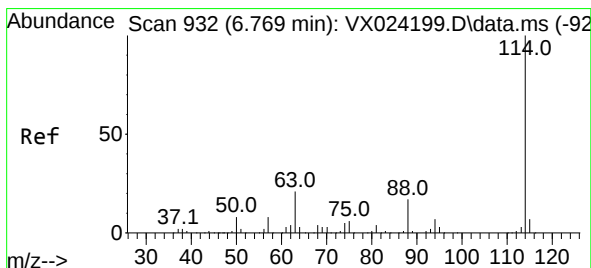
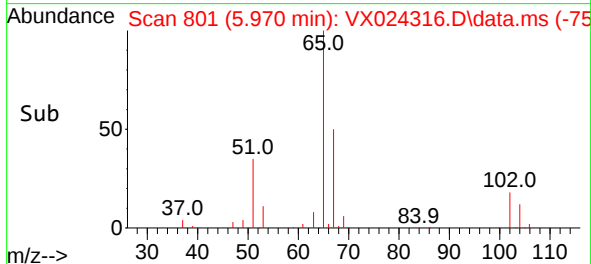
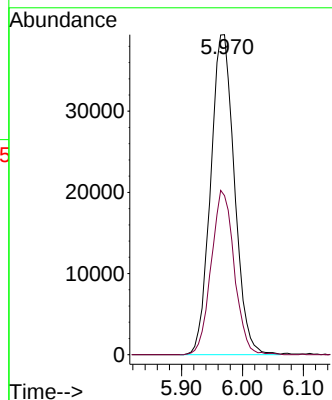
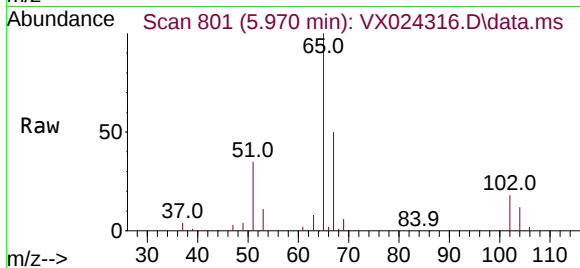


#33

1,2-Dichloroethane-d4  
Concen: 51.797 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. -0.001 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

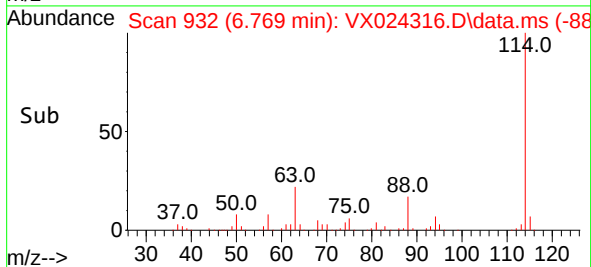
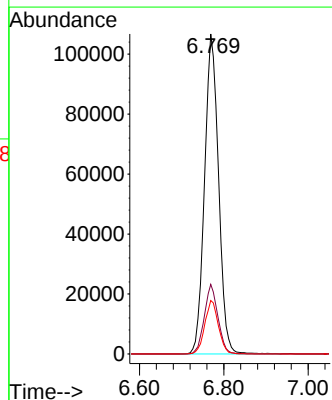
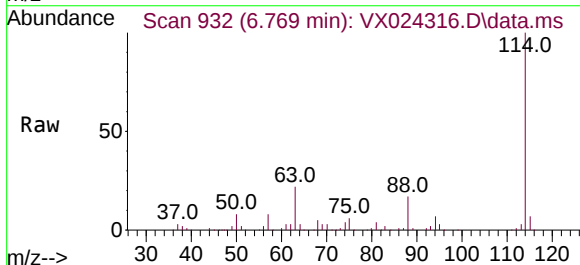
Tgt Ion: 65 Resp: 106963  
Ion Ratio Lower Upper  
65 100  
67 49.7 0.0 105.4

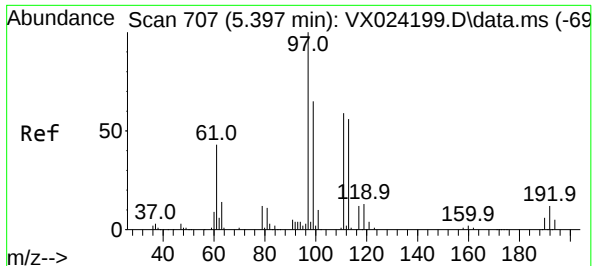


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 114 Resp: 246849  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 40.8  
88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.778 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

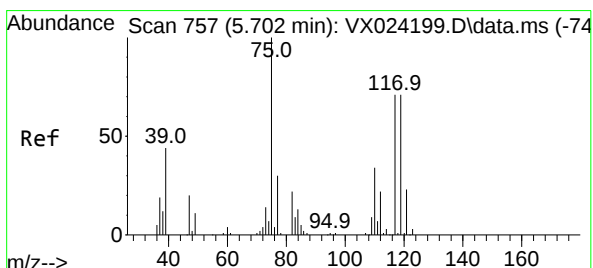
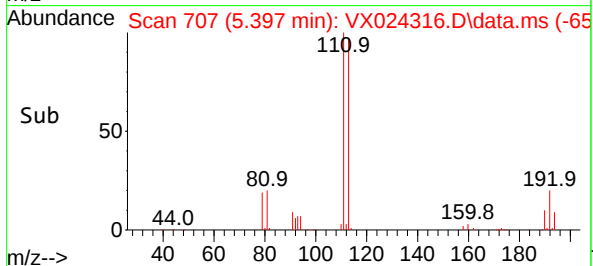
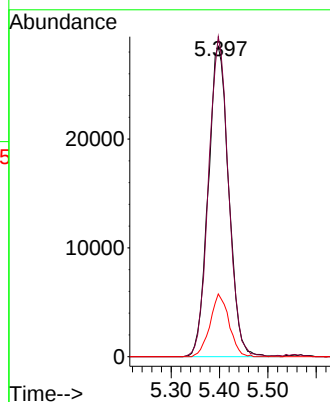
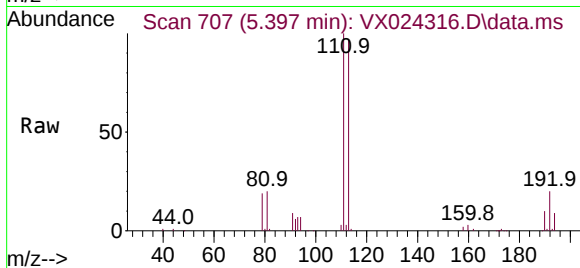
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 84061 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 100.2 | 81.9  | 122.9 |
| 192      | 18.7  | 16.7  | 25.1  |

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20210914



#36

1,1-Dichloropropene

Concen: 4.998 ug/l

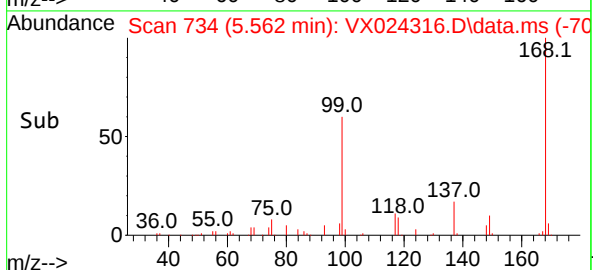
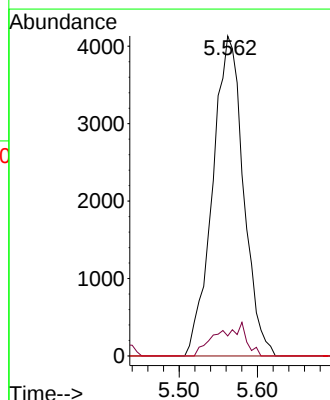
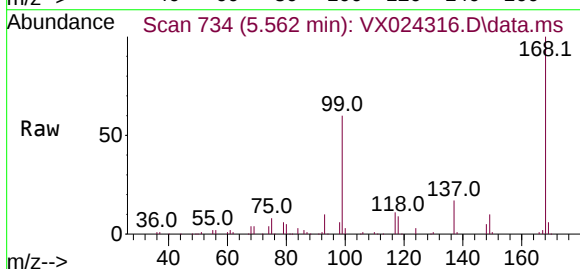
RT: 5.562 min Scan# 734

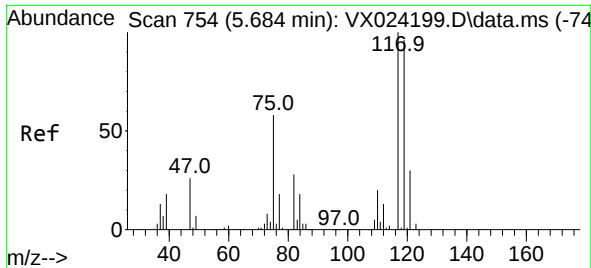
Delta R.T. -0.140 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11343 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 5.1   | 18.1  | 54.4# |
| 77       | 0.0   | 25.3  | 37.9# |

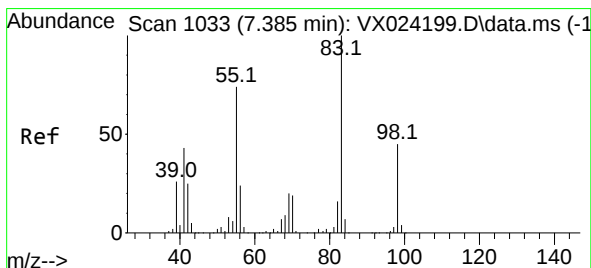
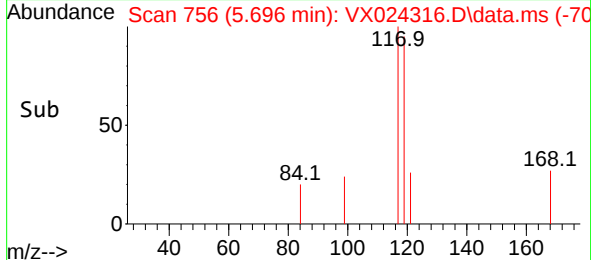
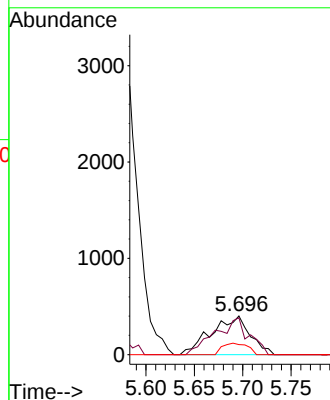
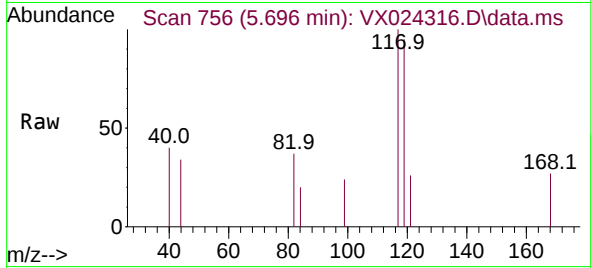




#38  
Carbon Tetrachloride  
Concen: 0.437 ug/l  
RT: 5.696 min Scan# 756  
Delta R.T. 0.012 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

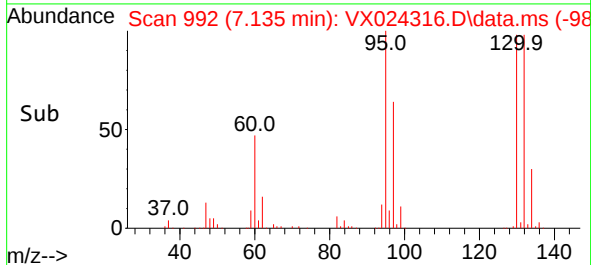
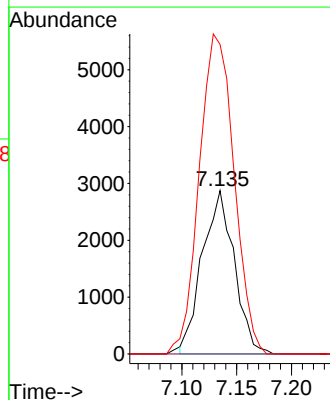
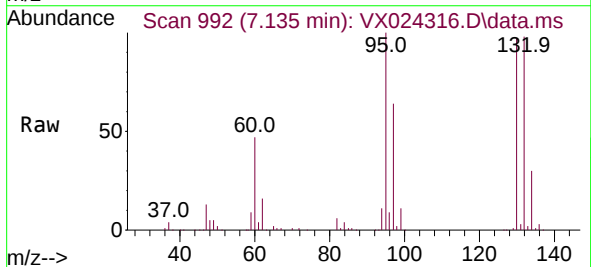
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

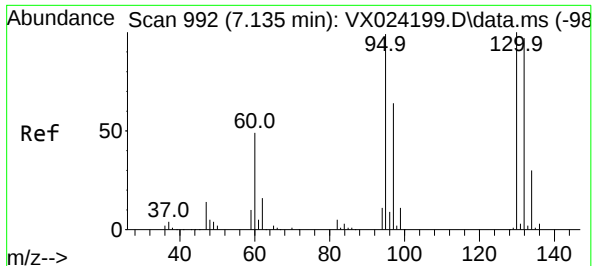
Tgt Ion:117 Resp: 1116  
Ion Ratio Lower Upper  
117 100  
119 95.3 76.2 114.2  
121 25.9 24.8 37.2



#39  
Methylcyclohexane  
Concen: 2.150 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. -0.250 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 83 Resp: 5825  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 189.4 38.1 57.1#

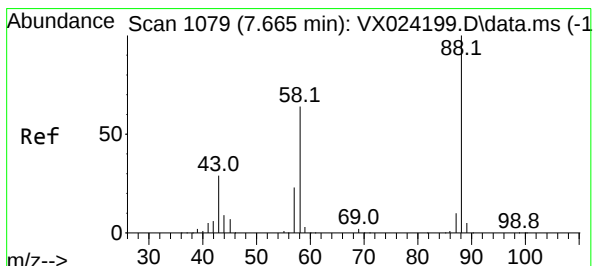
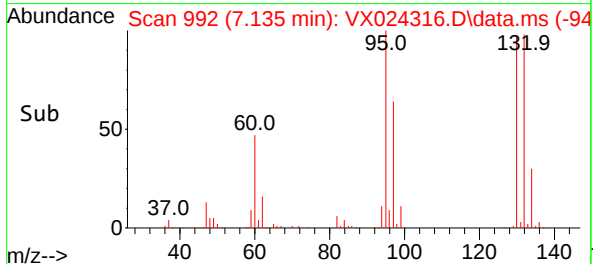
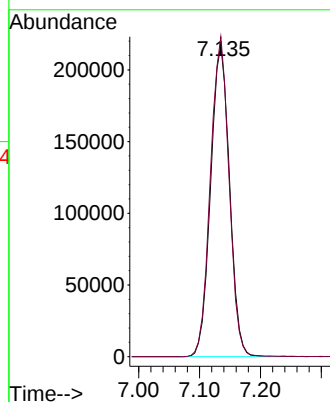
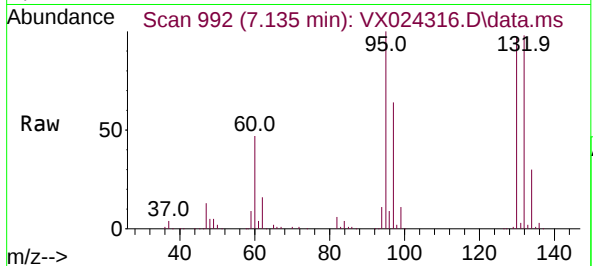




#44  
Trichloroethene  
Concen: 255.751 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

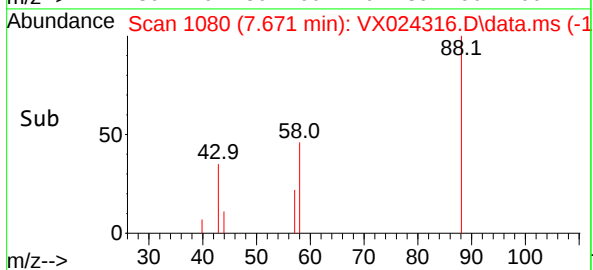
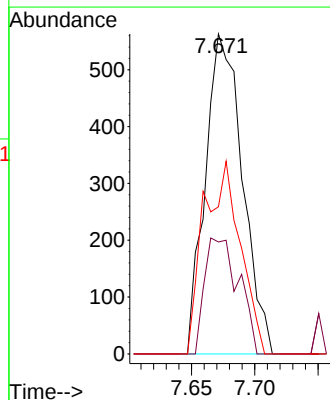
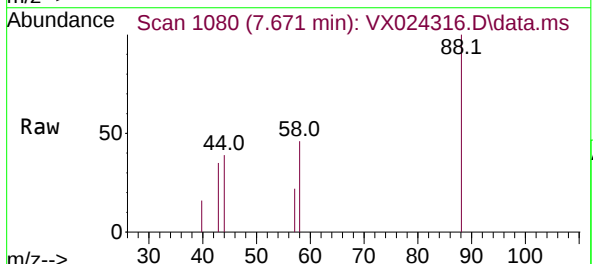
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

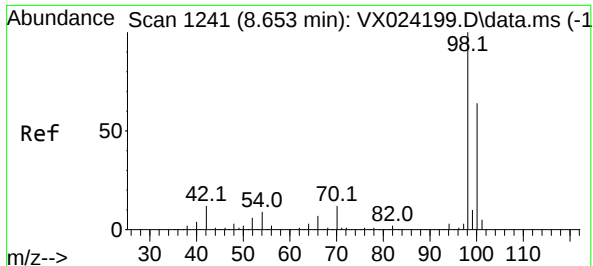
Tgt Ion:130 Resp: 467745  
Ion Ratio Lower Upper  
130 100  
95 102.6 0.0 198.0



#49  
1,4-Dioxane  
Concen: 26.126 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.006 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion: 88 Resp: 1149  
Ion Ratio Lower Upper  
88 100  
43 33.2 23.2 34.8  
58 59.2 55.0 82.4





#50

Toluene-d8

Concen: 50.454 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

Tgt Ion: 98 Resp: 304282

Ion Ratio Lower Upper

98 100

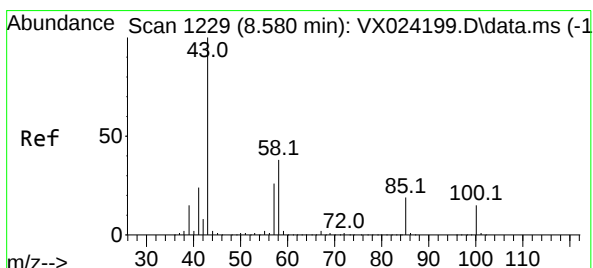
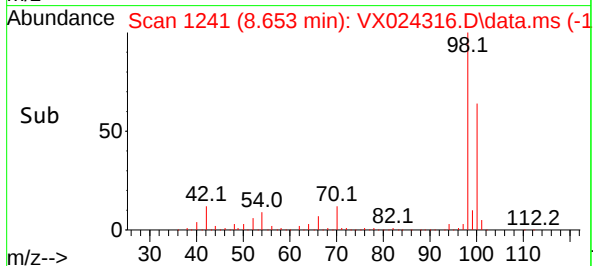
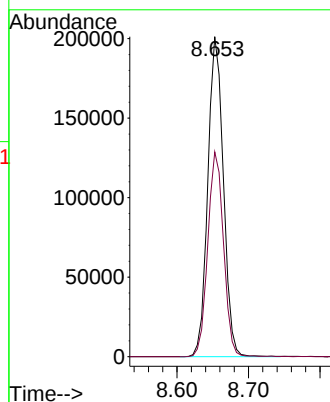
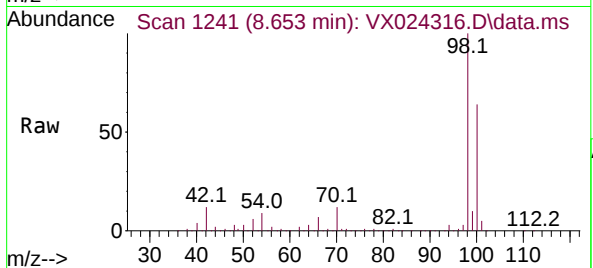
100 64.5 51.9 77.9

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20210914



#51

4-Methyl-2-Pentanone

Concen: 0.515 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.073 min

Lab File: VX024316.D

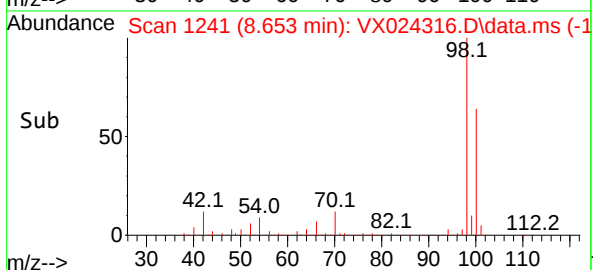
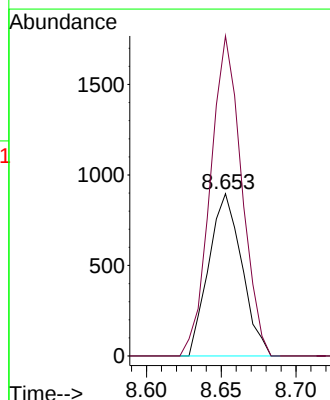
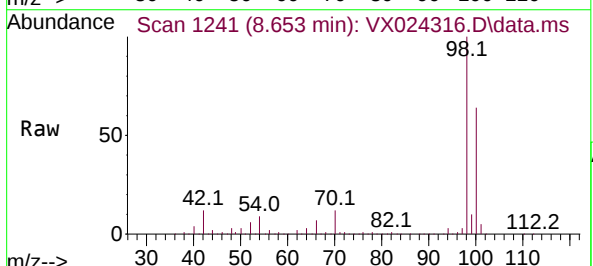
Acq: 17 Sep 2021 17:55

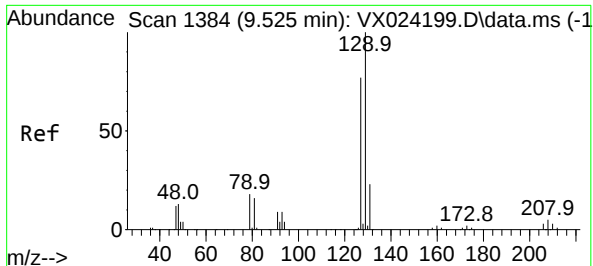
Tgt Ion: 43 Resp: 1381

Ion Ratio Lower Upper

43 100

58 186.6 35.4 53.0#





#60

Dibromochloromethane

Concen: 6.270 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX024316.D

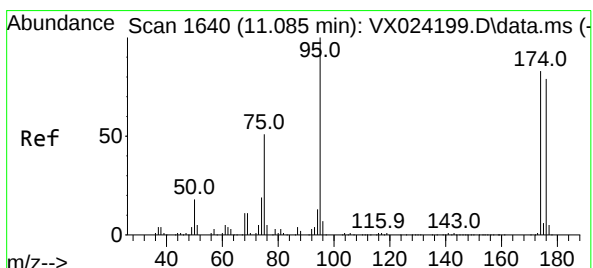
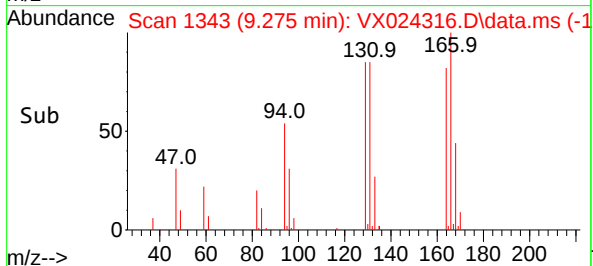
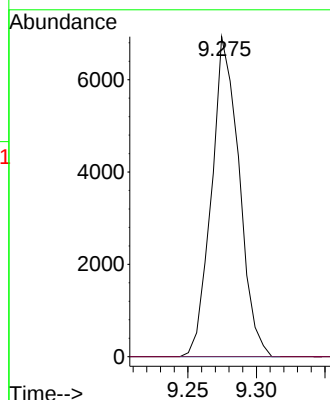
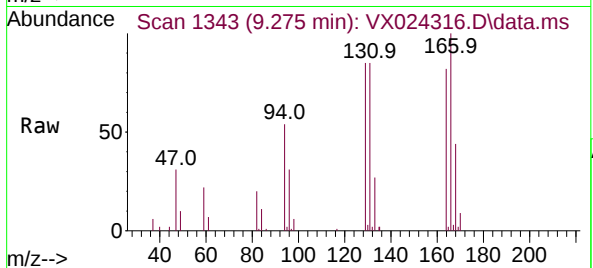
Acq: 17 Sep 2021 17:55

Tgt Ion:129 Resp: 9697

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 47.820 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX024316.D

Acq: 17 Sep 2021 17:55

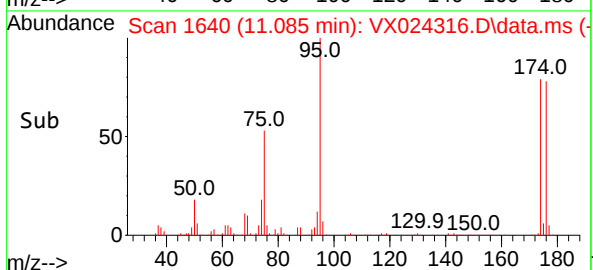
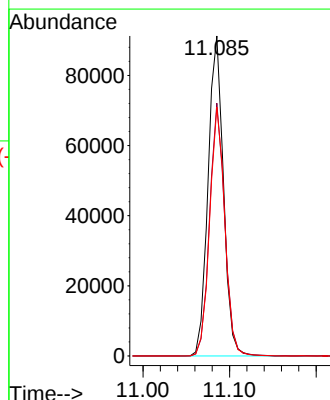
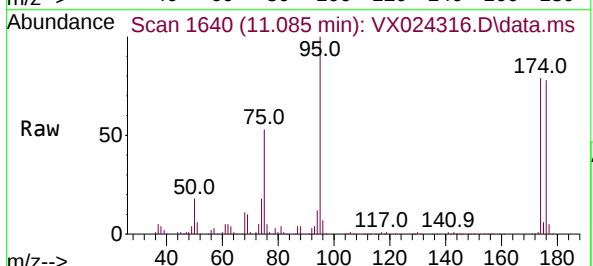
Tgt Ion: 95 Resp: 112232

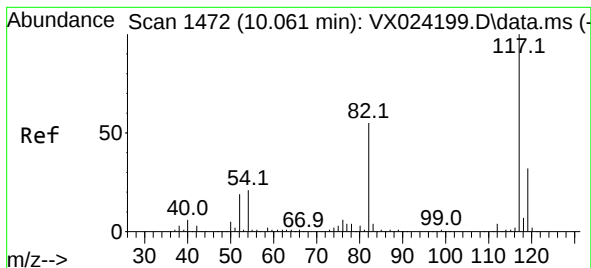
Ion Ratio Lower Upper

95 100

174 77.7 0.0 154.6

176 76.7 0.0 155.8

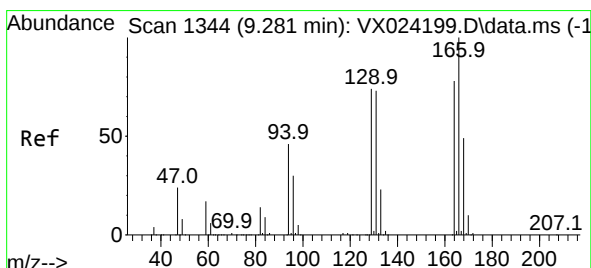
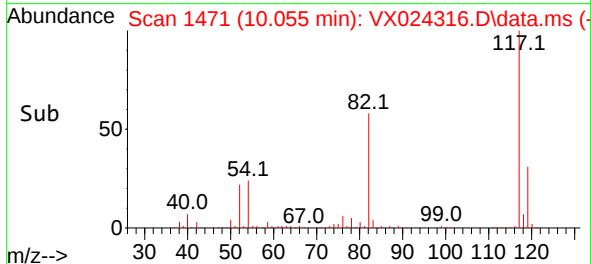
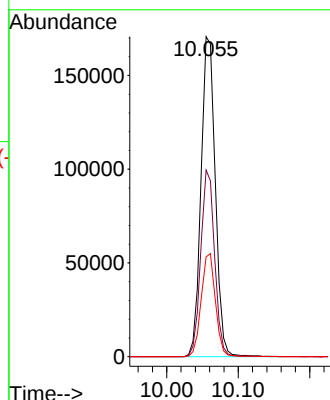
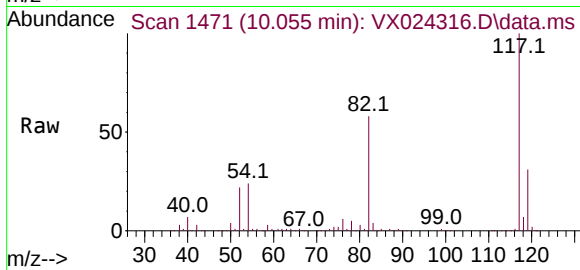




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

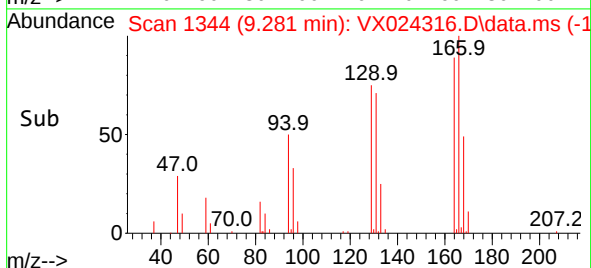
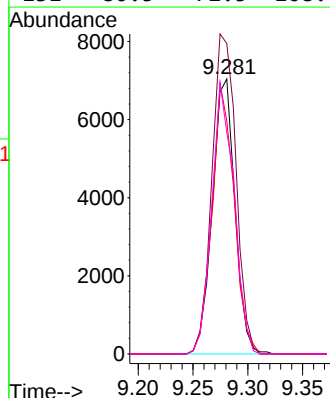
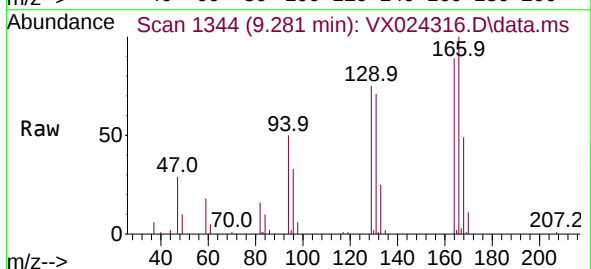
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

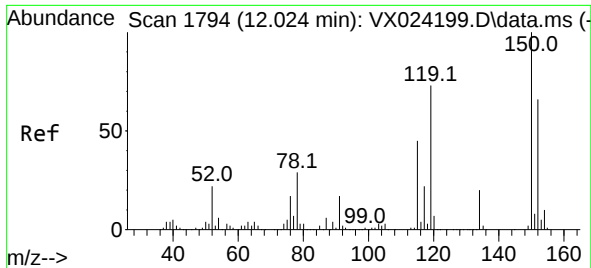
Tgt Ion:117 Resp: 236826  
Ion Ratio Lower Upper  
117 100  
82 58.3 47.4 71.2  
119 31.2 26.6 39.8



#64  
Tetrachloroethene  
Concen: 5.502 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. -0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

Tgt Ion:164 Resp: 10094  
Ion Ratio Lower Upper  
164 100  
166 112.9 103.4 155.2  
129 84.8 70.8 106.2  
131 80.5 72.5 108.7

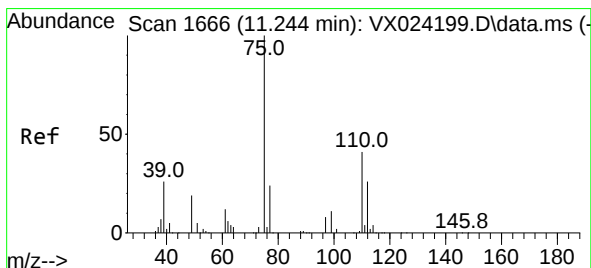
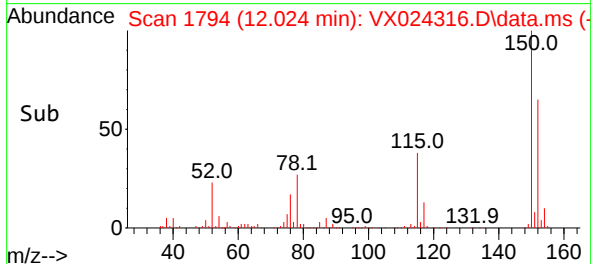
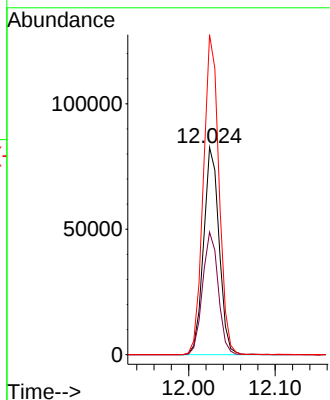
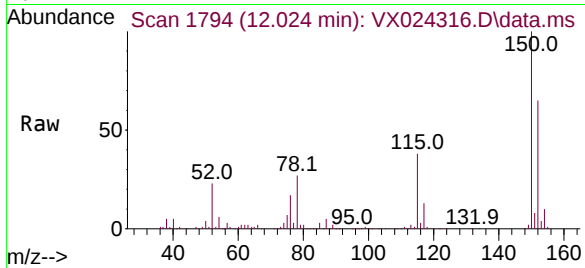




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

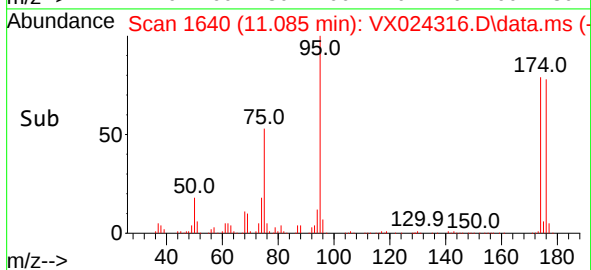
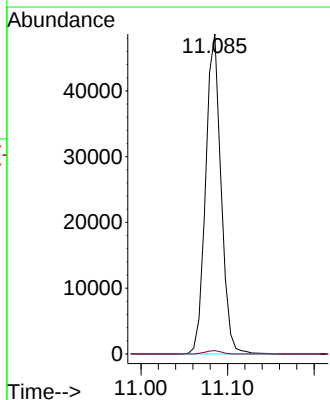
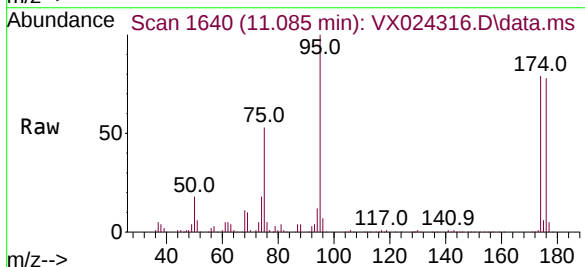
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20210914

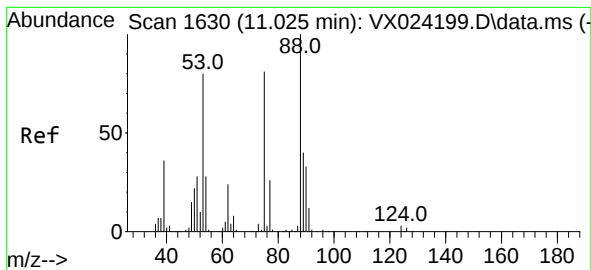
Tgt Ion:152 Resp: 102608  
Ion Ratio Lower Upper  
152 100  
115 59.7 41.1 123.3  
150 155.4 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 25.422 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024316.D  
Acq: 17 Sep 2021 17:55

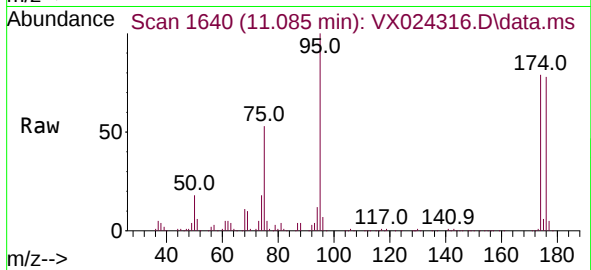
Tgt Ion: 75 Resp: 59979  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.765 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.060 min  
 Lab File: VX024316.D  
 Acq: 17 Sep 2021 17:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20210914



Tgt Ion: 75 Resp: 59979  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

