

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042921\  
 Data File : VU043409.D  
 Acq On : 29 Apr 2021 00:56  
 Operator : SY/MD  
 Sample : M2180-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Apr 29 09:47:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U041221W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 12 13:17:29 2021  
 Response via : Initial Calibration

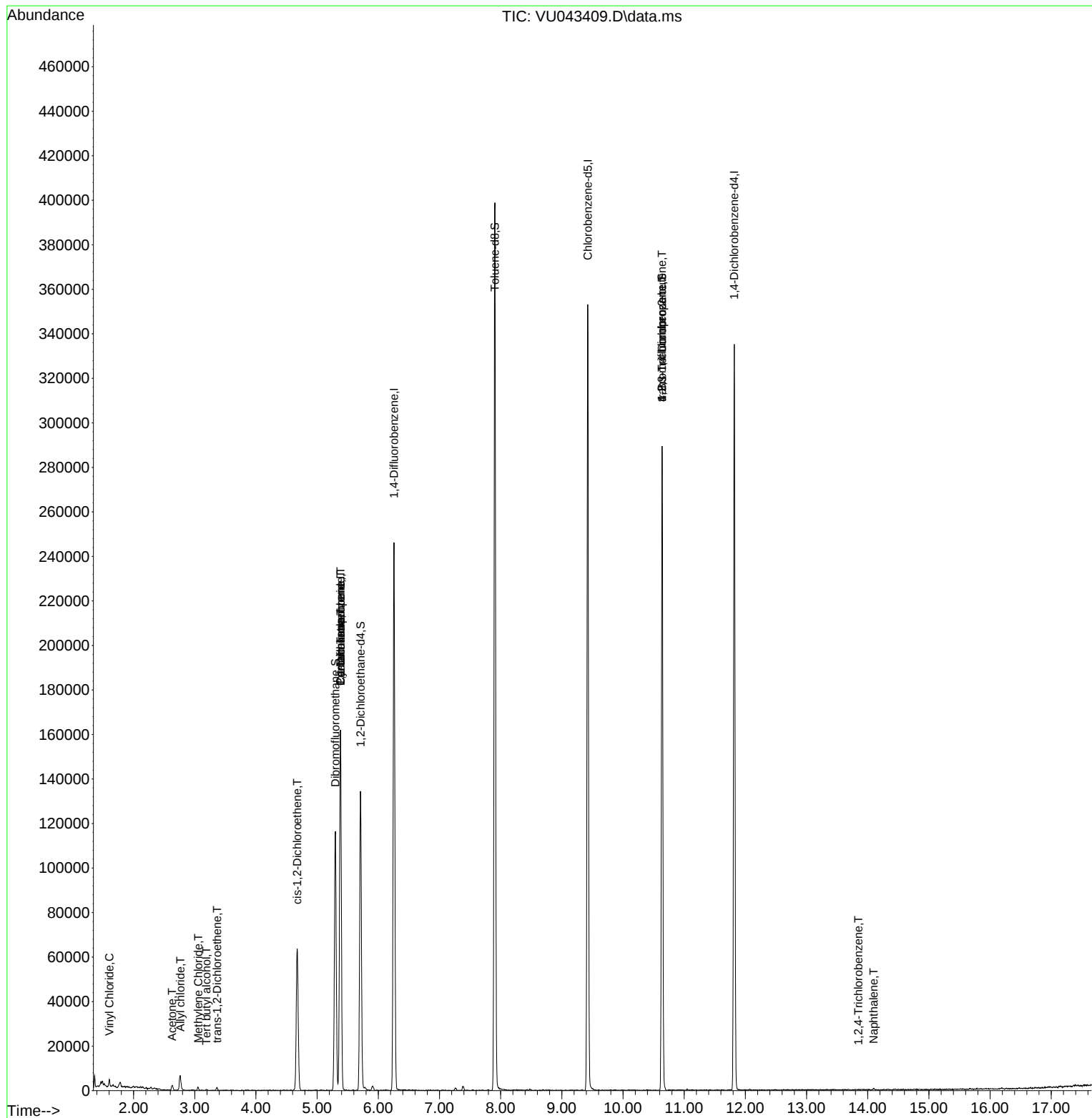
| Compound                      | R.T.   | QIon | Response | Conc       | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|------------|---------|----------|
| -----                         |        |      |          |            |         |          |
| Internal Standards            |        |      |          |            |         |          |
| 1) Pentafluorobenzene         | 5.382  | 168  | 108229   | 50.00      | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.256  | 114  | 179904   | 50.00      | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 9.423  | 117  | 173908   | 50.00      | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152  | 81809    | 50.00      | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |            |         |          |
| 33) 1,2-Dichloroethane-d4     | 5.710  | 65   | 101795   | 55.95      | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =          | 111.90% |          |
| 35) Dibromofluoromethane      | 5.298  | 113  | 69930    | 51.73      | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =          | 103.46% |          |
| 50) Toluene-d8                | 7.906  | 98   | 242773   | 50.75      | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =          | 101.50% |          |
| 62) 4-Bromofluorobenzene      | 10.639 | 95   | 84743    | 44.24      | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =          | 88.48%  |          |
| Target Compounds              |        |      |          |            |         |          |
|                               |        |      |          |            | Qvalue  |          |
| 3) Chloromethane              | 1.520  | 50   | 586      | Below Cal  | #       | 75       |
| 4) Vinyl Chloride             | 1.607  | 62   | 834      | 0.68 ug/l  | #       | 80       |
| 11) Tert butyl alcohol        | 3.192  | 59   | 272      | 0.58 ug/l  | #       | 94       |
| 14) Allyl chloride            | 2.765  | 41   | 600      | 0.24 ug/l  | #       | 47       |
| 16) Acetone                   | 2.630  | 43   | 2439     | 1.98 ug/l  |         | 99       |
| 20) Methylene Chloride        | 3.057  | 84   | 434      | 0.34 ug/l  | #       | 73       |
| 21) trans-1,2-Dichloroethene  | 3.366  | 96   | 351      | 0.30 ug/l  | #       | 70       |
| 27) cis-1,2-Dichloroethene    | 4.674  | 96   | 29616    | 21.99 ug/l |         | 93       |
| 31) Cyclohexane               | 5.382  | 56   | 2930     | 1.31 ug/l  | #       | 29       |
| 36) 1,1-Dichloropropene       | 5.382  | 75   | 9559     | 5.01 ug/l  | #       | 50       |
| 38) Carbon Tetrachloride      | 5.382  | 117  | 10660    | 5.21 ug/l  | #       | 17       |
| 76) 1,2,3-Trichloropropane    | 10.639 | 75   | 48921    | 20.46 ug/l | #       | 37       |
| 81) trans-1,4-Dichloro-2-b... | 10.639 | 75   | 48921    | 60.13 ug/l | #       | 7        |
| 93) 1,2,4-Trichlorobenzene    | 13.848 | 180  | 21       | 1.52 ug/l  | #       | 13       |
| 95) Naphthalene               | 14.099 | 128  | 596      | 2.84 ug/l  | #       | 73       |
| -----                         |        |      |          |            |         |          |

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

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Sample : M2180-02  
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ALS Vial : 61 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Apr 29 09:47:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U041221W.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 12 13:17:29 2021  
Response via : Initial Calibration

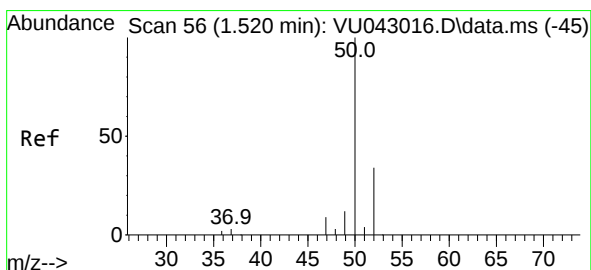
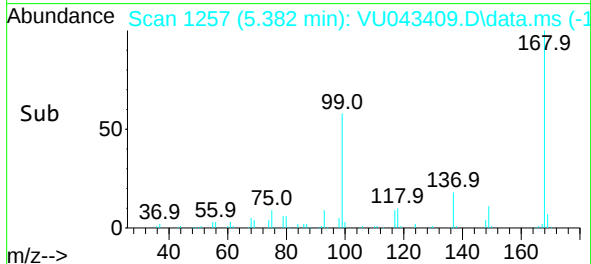
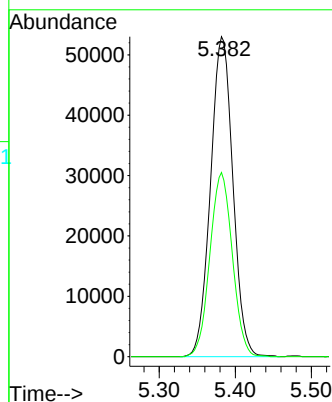
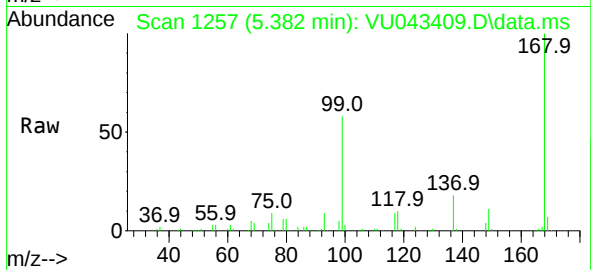




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

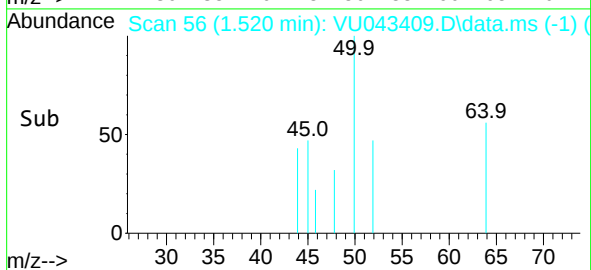
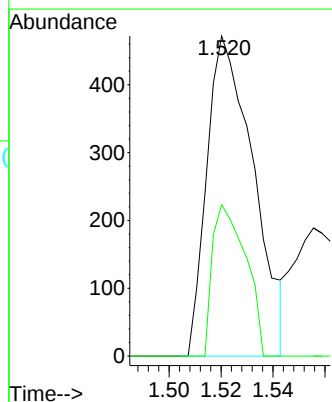
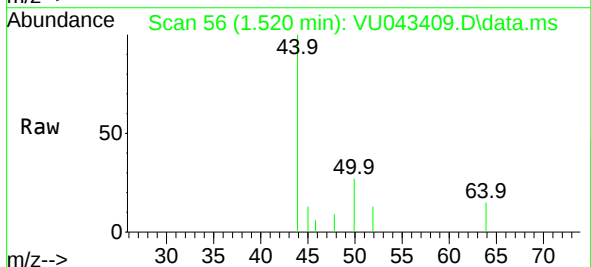
Instrument :  
MSVOA\_U  
ClientSampled :

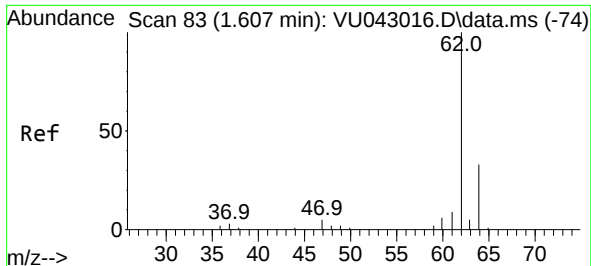
Tgt Ion:168 Resp: 108229  
Ion Ratio Lower Upper  
168 100  
99 57.5 45.0 67.4



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

Tgt Ion: 50 Resp: 586  
Ion Ratio Lower Upper  
50 100  
52 47.2 26.6 40.0#

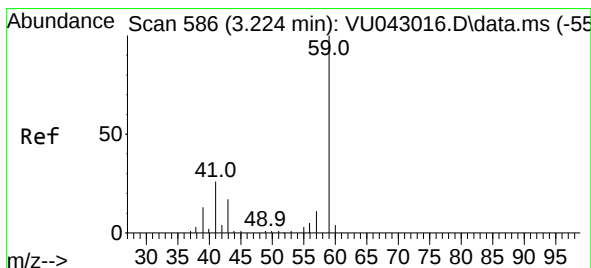
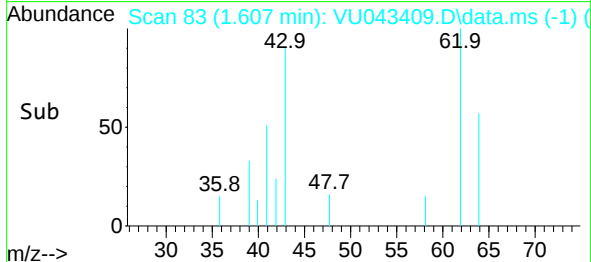
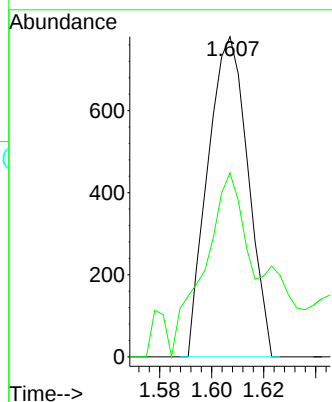
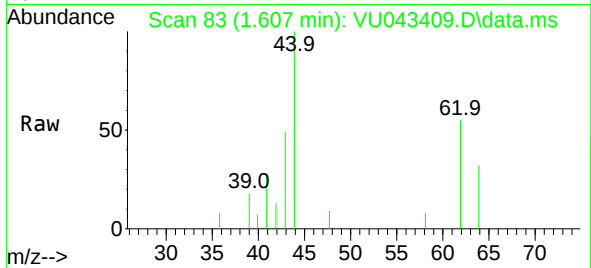




#4  
 Vinyl Chloride  
 Concen: 0.68 ug/l  
 RT: 1.607 min Scan# 83  
 Delta R.T. 0.000 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

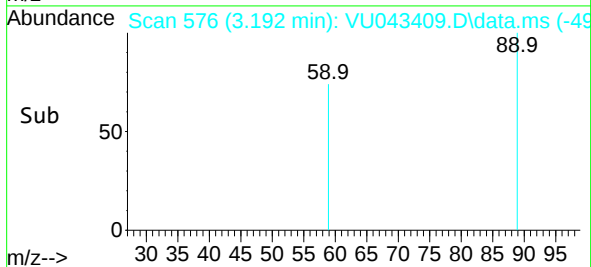
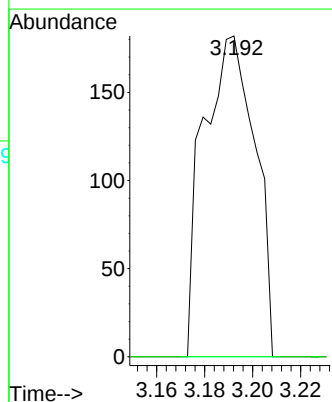
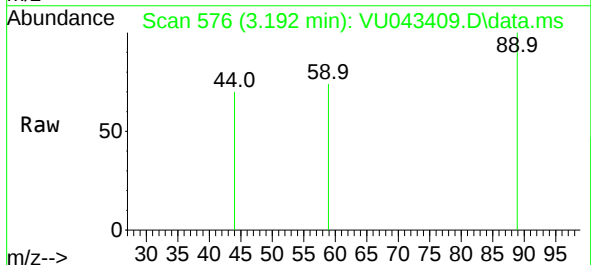
Instrument :  
 MSVOA\_U  
 ClientSampled :

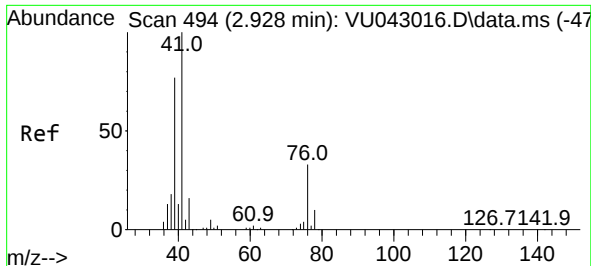
Tgt Ion: 62 Resp: 834  
 Ion Ratio Lower Upper  
 62 100  
 64 42.4 25.2 37.8#



#11  
 Tert butyl alcohol  
 Concen: 0.58 ug/l  
 RT: 3.192 min Scan# 576  
 Delta R.T. -0.032 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

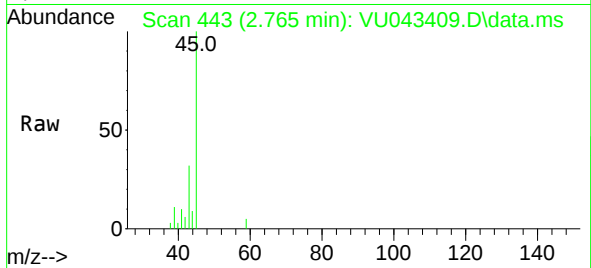
Tgt Ion: 59 Resp: 272  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 1.6 2.4#



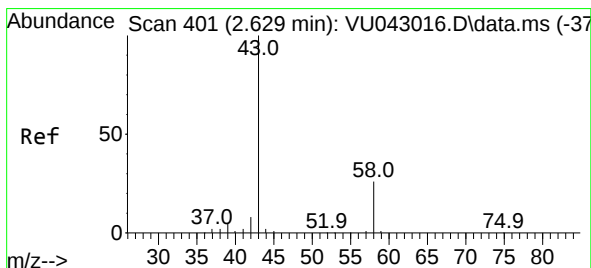
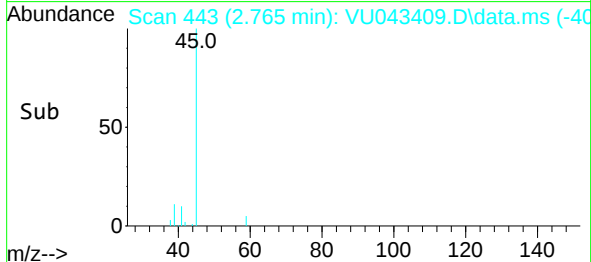
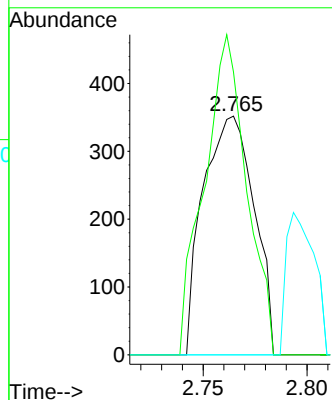


#14  
 Allyl chloride  
 Concen: 0.24 ug/l  
 RT: 2.765 min Scan# 443  
 Delta R.T. -0.163 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :

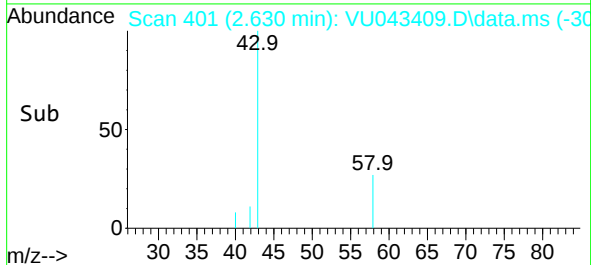
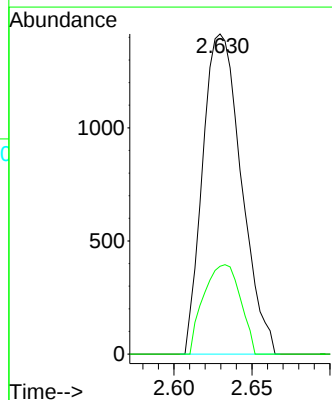
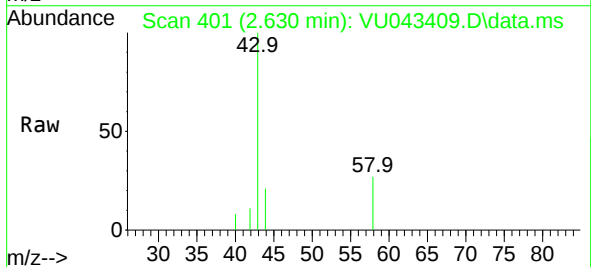


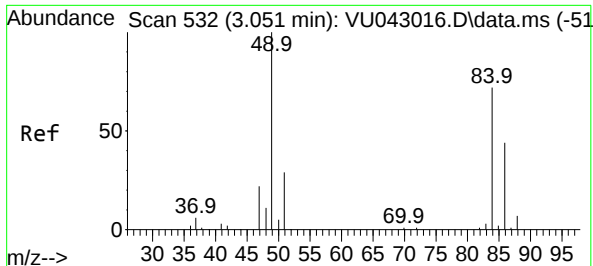
Tgt Ion: 41 Resp: 600  
 Ion Ratio Lower Upper  
 41 100  
 39 111.3 54.9 82.3#  
 76 0.0 22.5 33.7#



#16  
 Acetone  
 Concen: 1.98 ug/l  
 RT: 2.630 min Scan# 401  
 Delta R.T. 0.001 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

Tgt Ion: 43 Resp: 2439  
 Ion Ratio Lower Upper  
 43 100  
 58 27.4 21.5 32.3



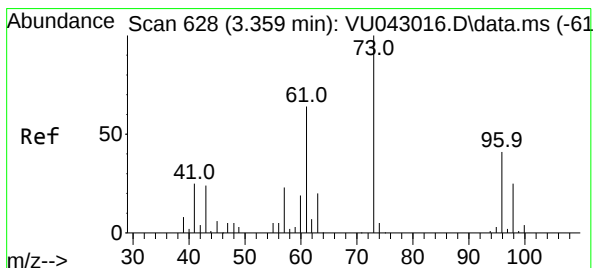
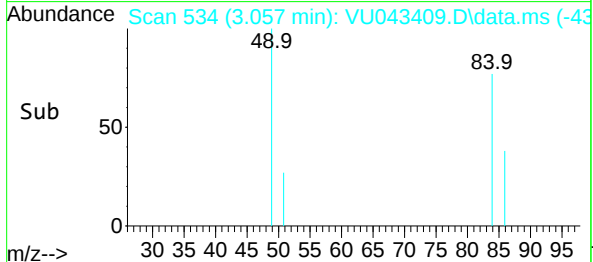
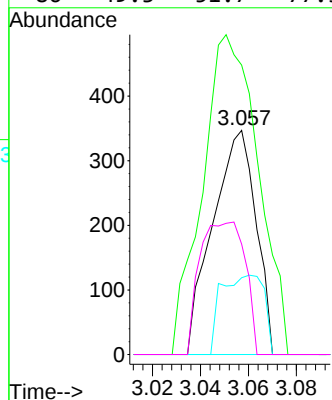
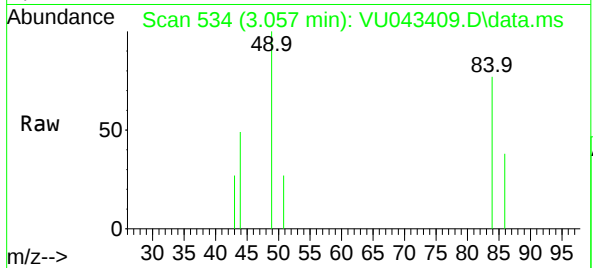


#20  
Methylene Chloride  
Concen: 0.34 ug/l  
RT: 3.057 min Scan# 534  
Delta R.T. 0.006 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 84 Resp: 434

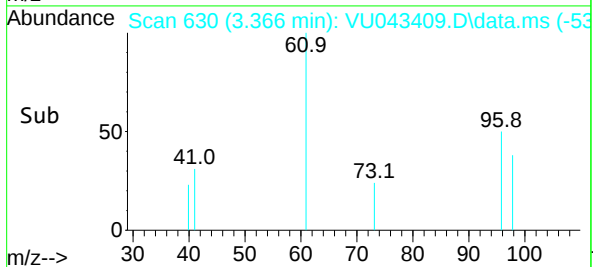
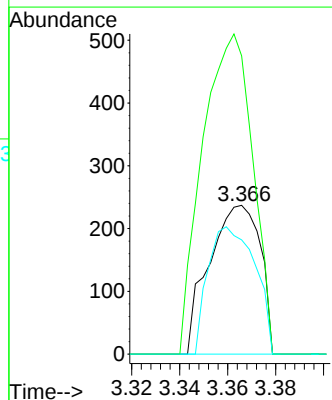
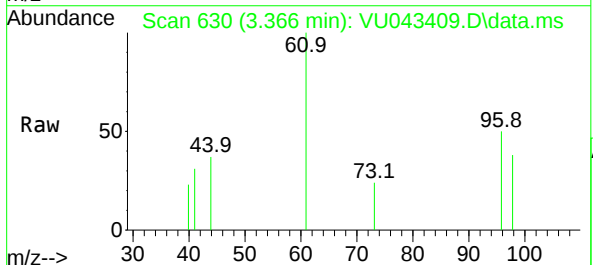
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 97.4  | 112.6 | 169.0# |
| 51  | 34.3  | 33.7  | 50.5   |
| 86  | 49.3  | 51.7  | 77.5#  |

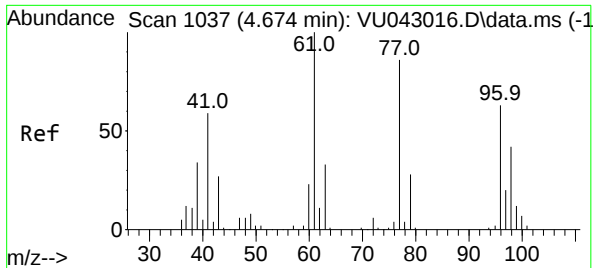


#21  
trans-1,2-Dichloroethene  
Concen: 0.30 ug/l  
RT: 3.366 min Scan# 630  
Delta R.T. 0.007 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

Tgt Ion: 96 Resp: 351

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 200.4 | 122.4 | 183.6# |
| 98  | 76.8  | 51.9  | 77.9   |

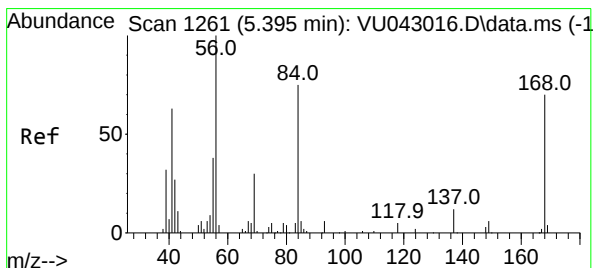
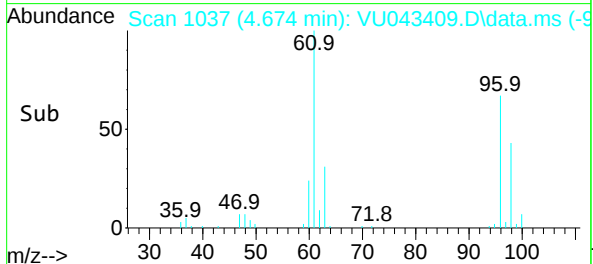
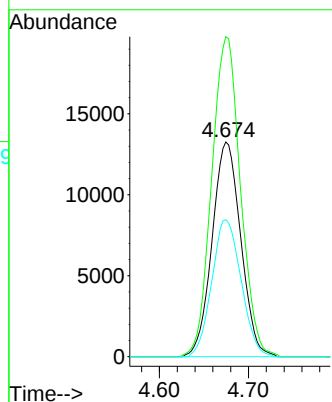
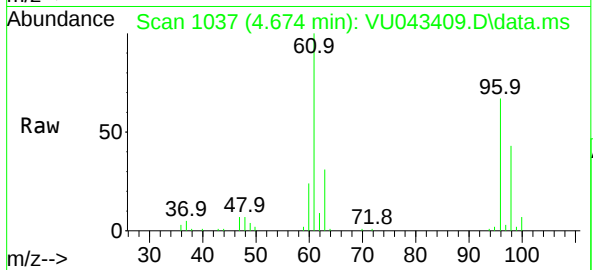




#27  
 cis-1,2-Dichloroethene  
 Concen: 21.99 ug/l  
 RT: 4.674 min Scan# 1037  
 Delta R.T. 0.000 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

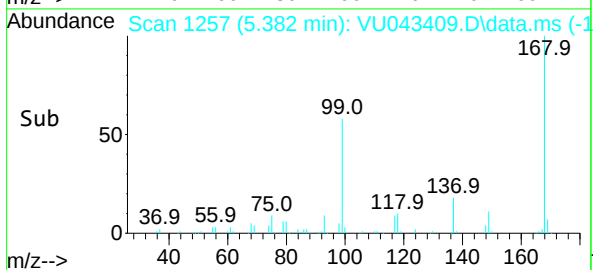
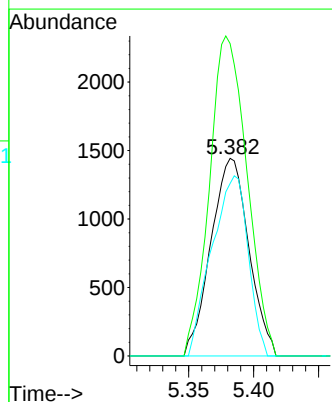
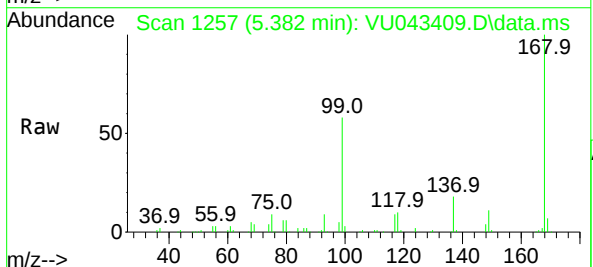
Instrument :  
 MSVOA\_U  
 ClientSampled :

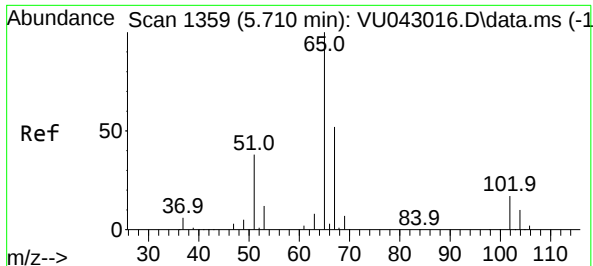
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 29616 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 149.5 | 0.0   | 322.2 |
| 98       | 65.2  | 0.0   | 128.6 |



#31  
 Cyclohexane  
 Concen: 1.31 ug/l  
 RT: 5.382 min Scan# 1257  
 Delta R.T. -0.013 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2930  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 158.1 | 24.9  | 37.3# |
| 84       | 87.3  | 63.7  | 95.5  |





#33

1,2-Dichloroethane-d4

Concen: 55.95 ug/l

RT: 5.710 min Scan# 1359

Delta R.T. -0.000 min

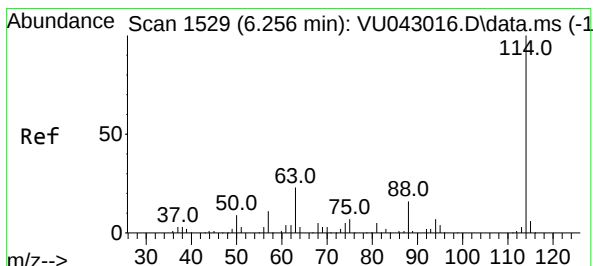
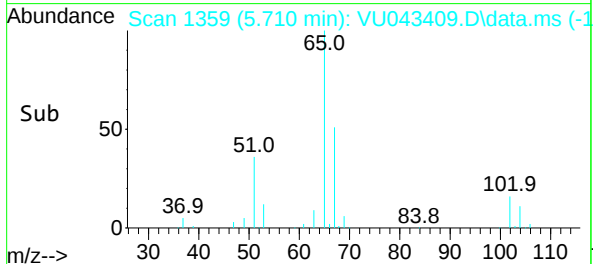
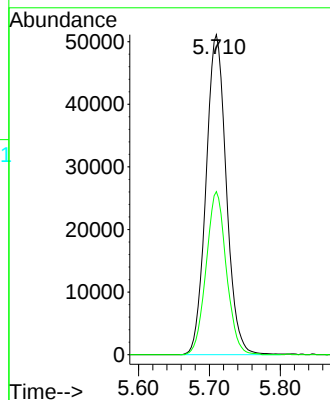
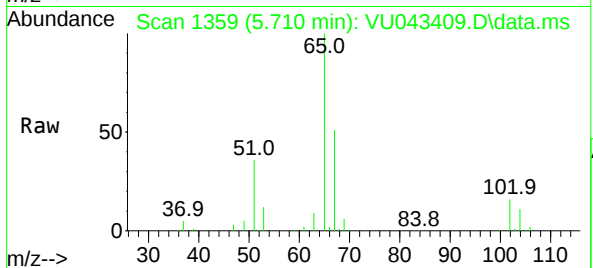
Lab File: VU043409.D

Acq: 29 Apr 2021 00:56

Tgt Ion: 65 Resp: 101795

Ion Ratio Lower Upper

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 50.7  | 0.0   | 99.8  |



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.256 min Scan# 1529

Delta R.T. 0.000 min

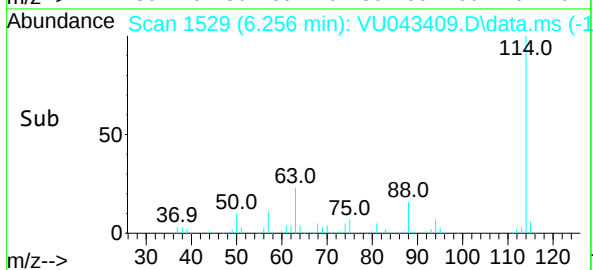
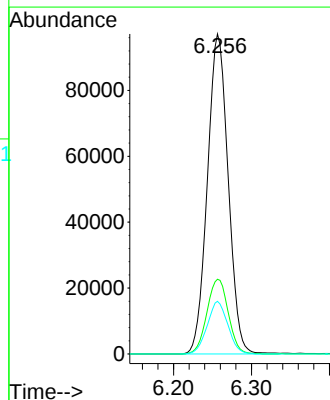
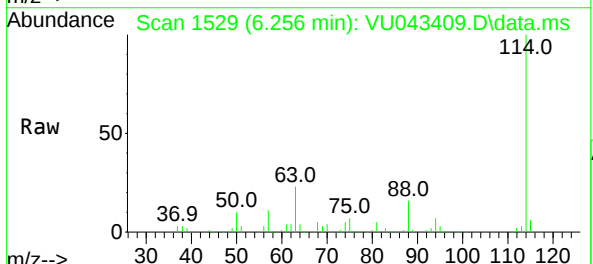
Lab File: VU043409.D

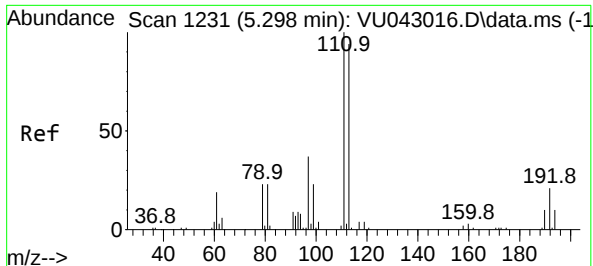
Acq: 29 Apr 2021 00:56

Tgt Ion: 114 Resp: 179904

Ion Ratio Lower Upper

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 23.4  | 0.0   | 44.2  |
| 88  | 16.5  | 0.0   | 33.4  |





#35

Dibromofluoromethane

Concen: 51.73 ug/l

RT: 5.298 min Scan# 1231

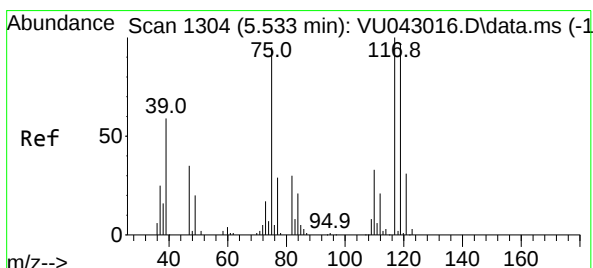
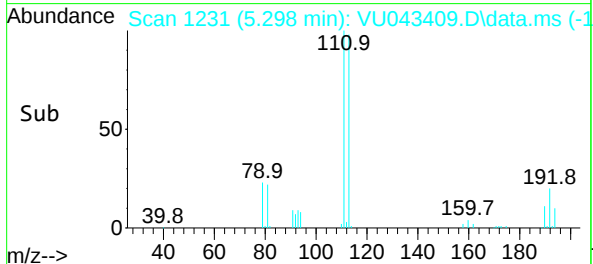
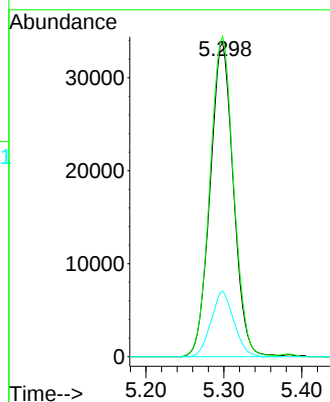
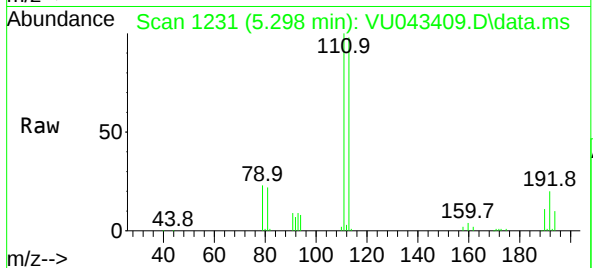
Delta R.T. 0.000 min

Lab File: VU043409.D

Acq: 29 Apr 2021 00:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 69930 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.0 | 81.8  | 122.8 |
| 192      | 20.4  | 17.2  | 25.8  |

Instrument :  
MSVOA\_U  
ClientSampled :



#36

1,1-Dichloropropene

Concen: 5.01 ug/l

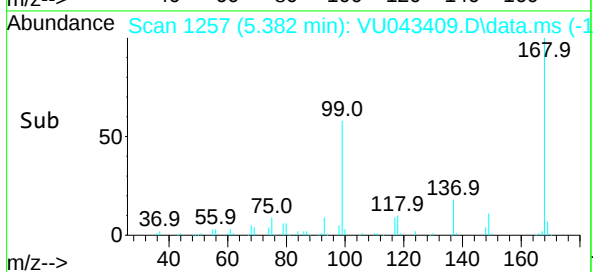
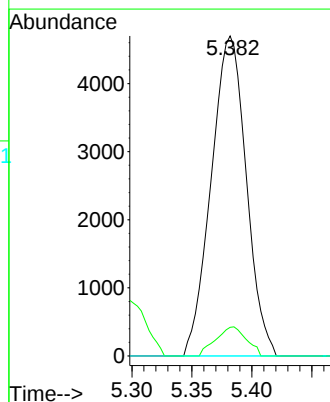
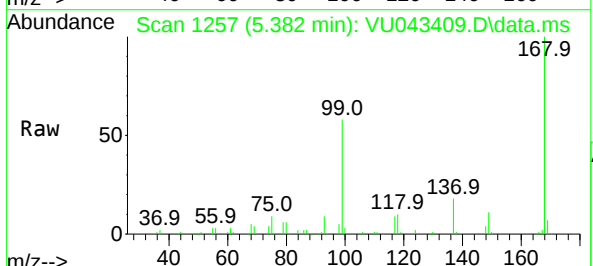
RT: 5.382 min Scan# 1257

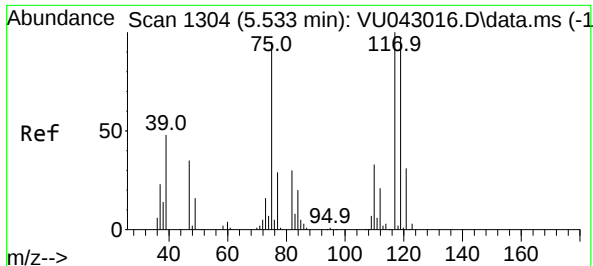
Delta R.T. -0.151 min

Lab File: VU043409.D

Acq: 29 Apr 2021 00:56

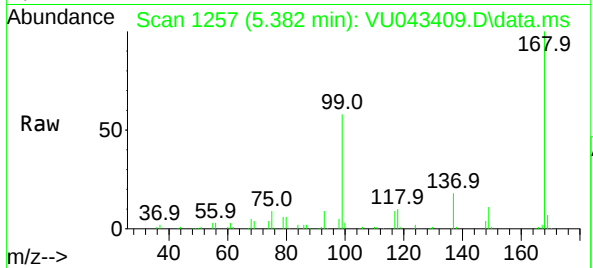
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 9559  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.9   | 16.8  | 50.3# |
| 77       | 0.0   | 24.8  | 37.2# |



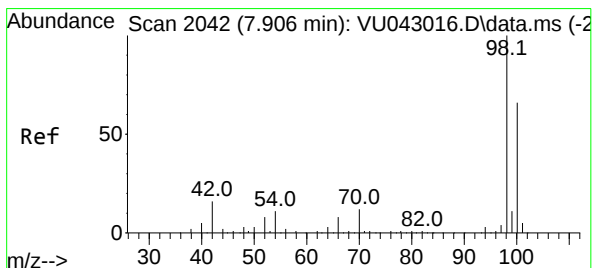
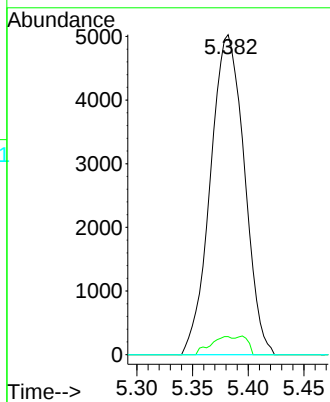
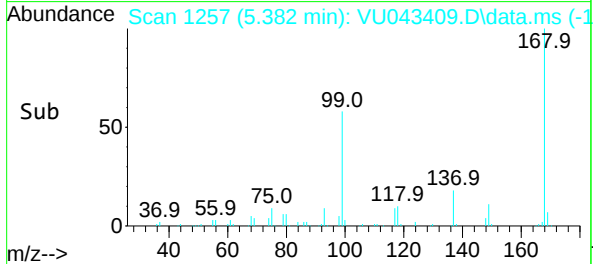


#38  
Carbon Tetrachloride  
Concen: 5.21 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

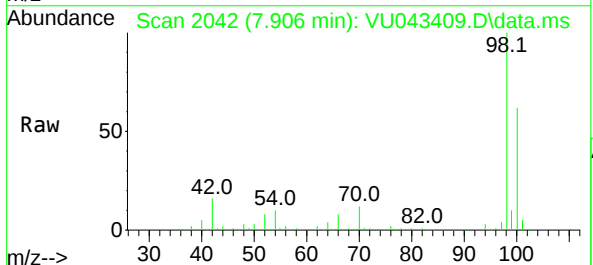
Instrument :  
MSVOA\_U  
ClientSampleId :



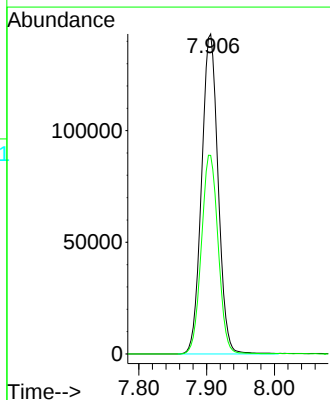
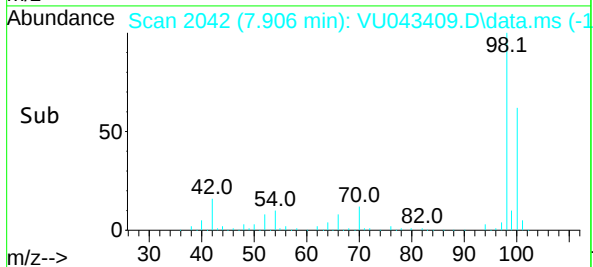
Tgt Ion: 117 Resp: 10660  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.5 113.3#  
121 0.0 24.7 37.1#

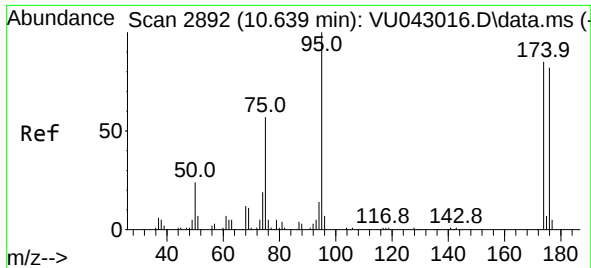


#50  
Toluene-d8  
Concen: 50.75 ug/l  
RT: 7.906 min Scan# 2042  
Delta R.T. -0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56



Tgt Ion: 98 Resp: 242773  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.2 75.2

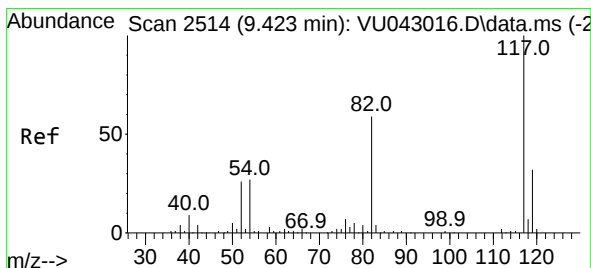
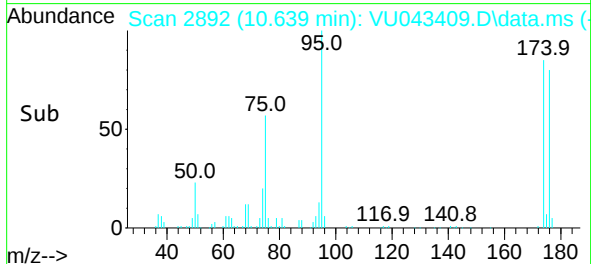
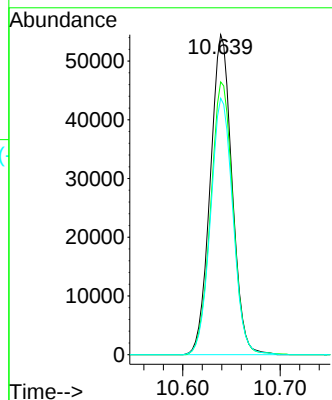
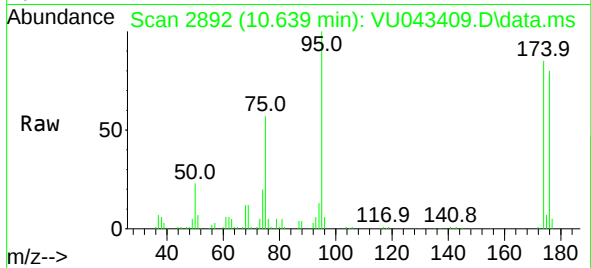




#62  
4-Bromofluorobenzene  
Concen: 44.24 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

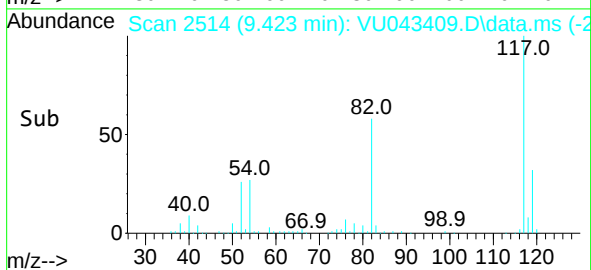
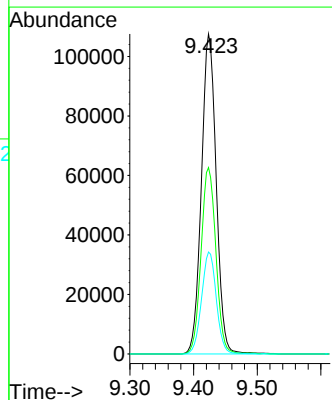
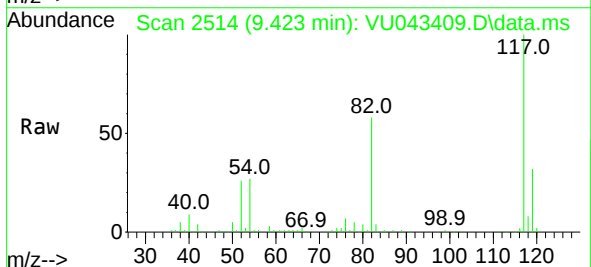
Instrument :  
MSVOA\_U  
ClientSampleId :

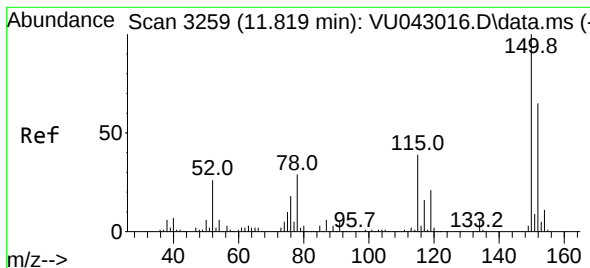
Tgt Ion: 95 Resp: 84743  
Ion Ratio Lower Upper  
95 100  
174 87.1 0.0 172.2  
176 82.0 0.0 168.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.423 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

Tgt Ion: 117 Resp: 173908  
Ion Ratio Lower Upper  
117 100  
82 58.2 45.8 68.6  
119 31.9 25.8 38.8

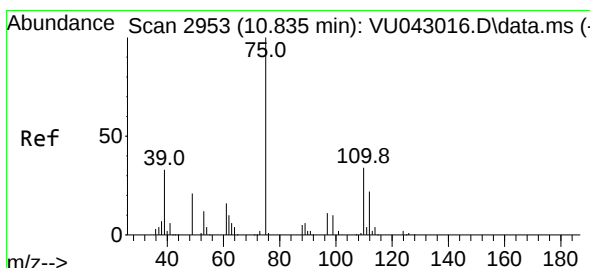
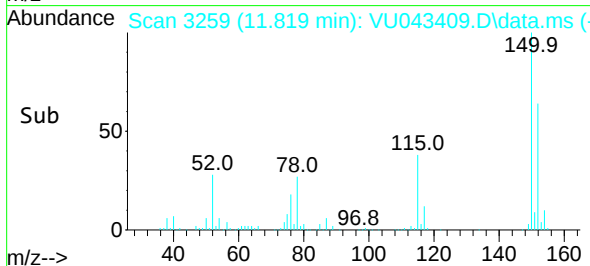
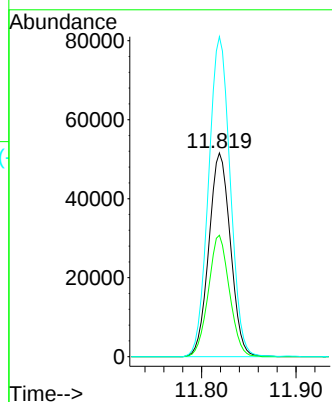
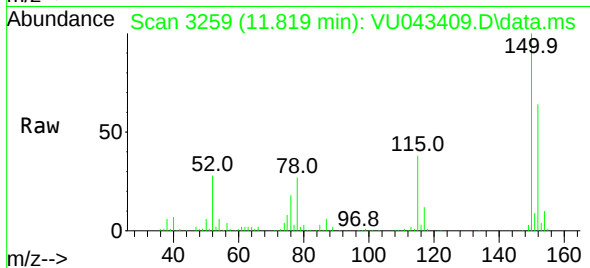




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 11.819 min Scan# 3259  
 Delta R.T. -0.000 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

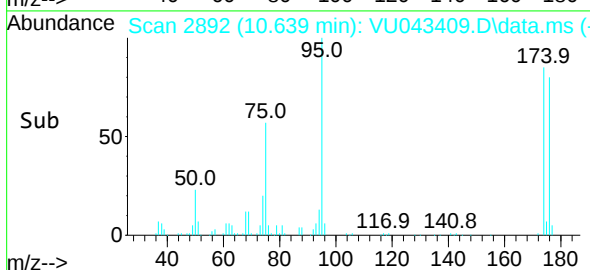
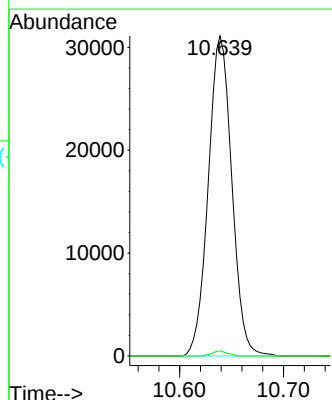
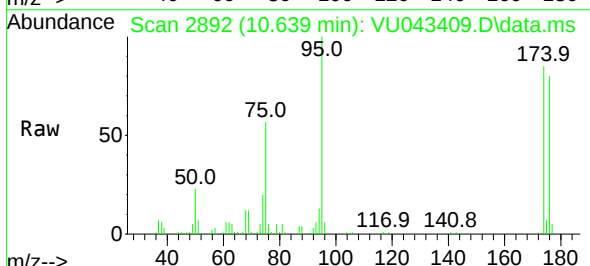
Instrument :  
 MSVOA\_U  
 ClientSampled :

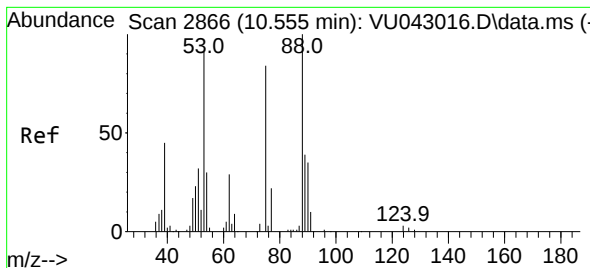
Tgt Ion:152 Resp: 81809  
 Ion Ratio Lower Upper  
 152 100  
 115 58.2 41.5 124.6  
 150 157.7 0.0 342.4



#76  
 1,2,3-Trichloropropane  
 Concen: 20.46 ug/l  
 RT: 10.639 min Scan# 2892  
 Delta R.T. -0.196 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

Tgt Ion: 75 Resp: 48921  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.2 60.5#

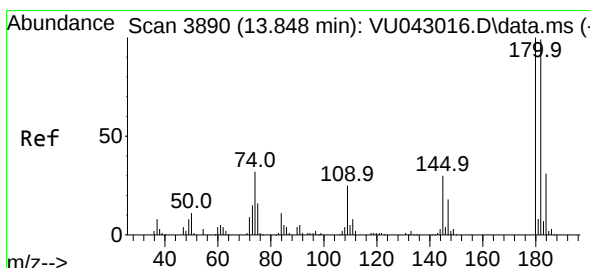
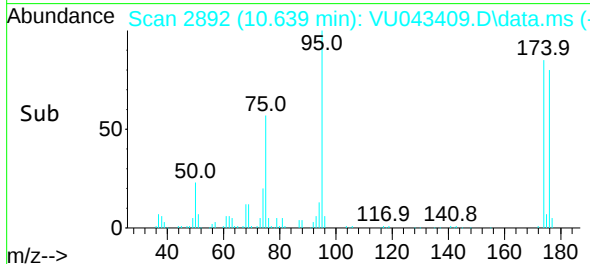
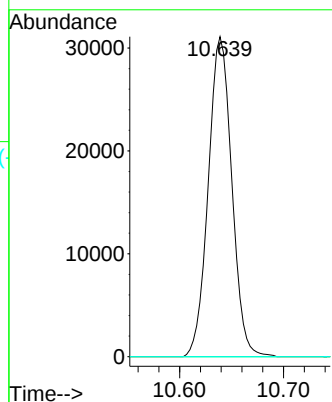
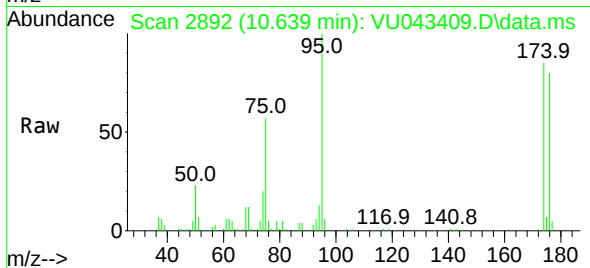




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.13 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. 0.084 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

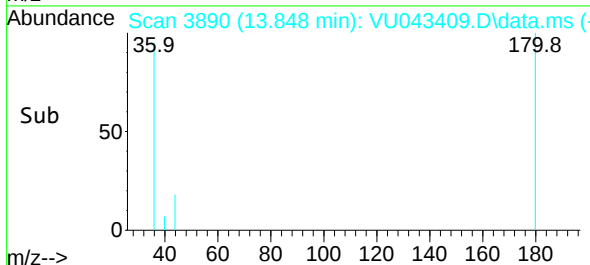
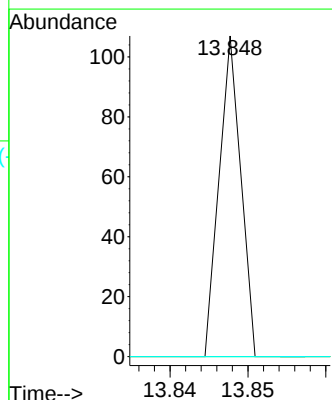
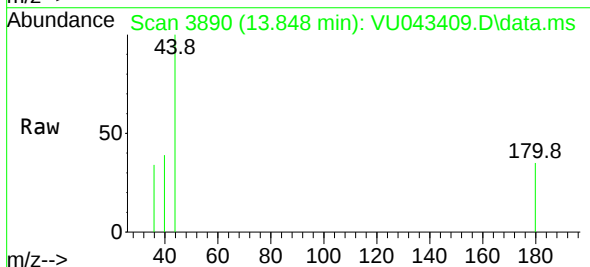
Instrument :  
MSVOA\_U  
ClientSampled :

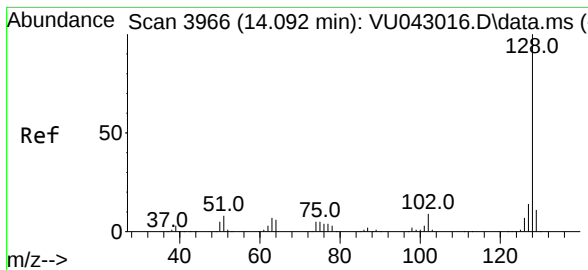
Tgt Ion: 75 Resp: 48921  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.6 128.4#  
89 0.0 35.7 53.5#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.52 ug/l  
RT: 13.848 min Scan# 3890  
Delta R.T. -0.000 min  
Lab File: VU043409.D  
Acq: 29 Apr 2021 00:56

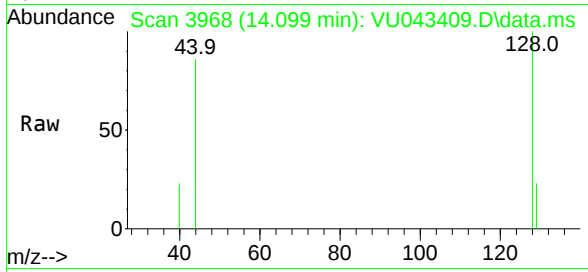
Tgt Ion:180 Resp: 21  
Ion Ratio Lower Upper  
180 100  
182 0.0 46.9 140.8#  
145 0.0 14.4 43.4#





#95  
 Naphthalene  
 Concen: 2.84 ug/l  
 RT: 14.099 min Scan# 3968  
 Delta R.T. 0.006 min  
 Lab File: VU043409.D  
 Acq: 29 Apr 2021 00:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 596   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.8  | 16.2# |
| 129      | 3.5   | 8.6   | 13.0# |

