

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062521\  
 Data File : VX022961.D  
 Acq On : 26 Jun 2021 07:21  
 Operator : JC/MD  
 Sample : M2824-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 26 08:16:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 19:12:26 2021  
 Response via : Initial Calibration

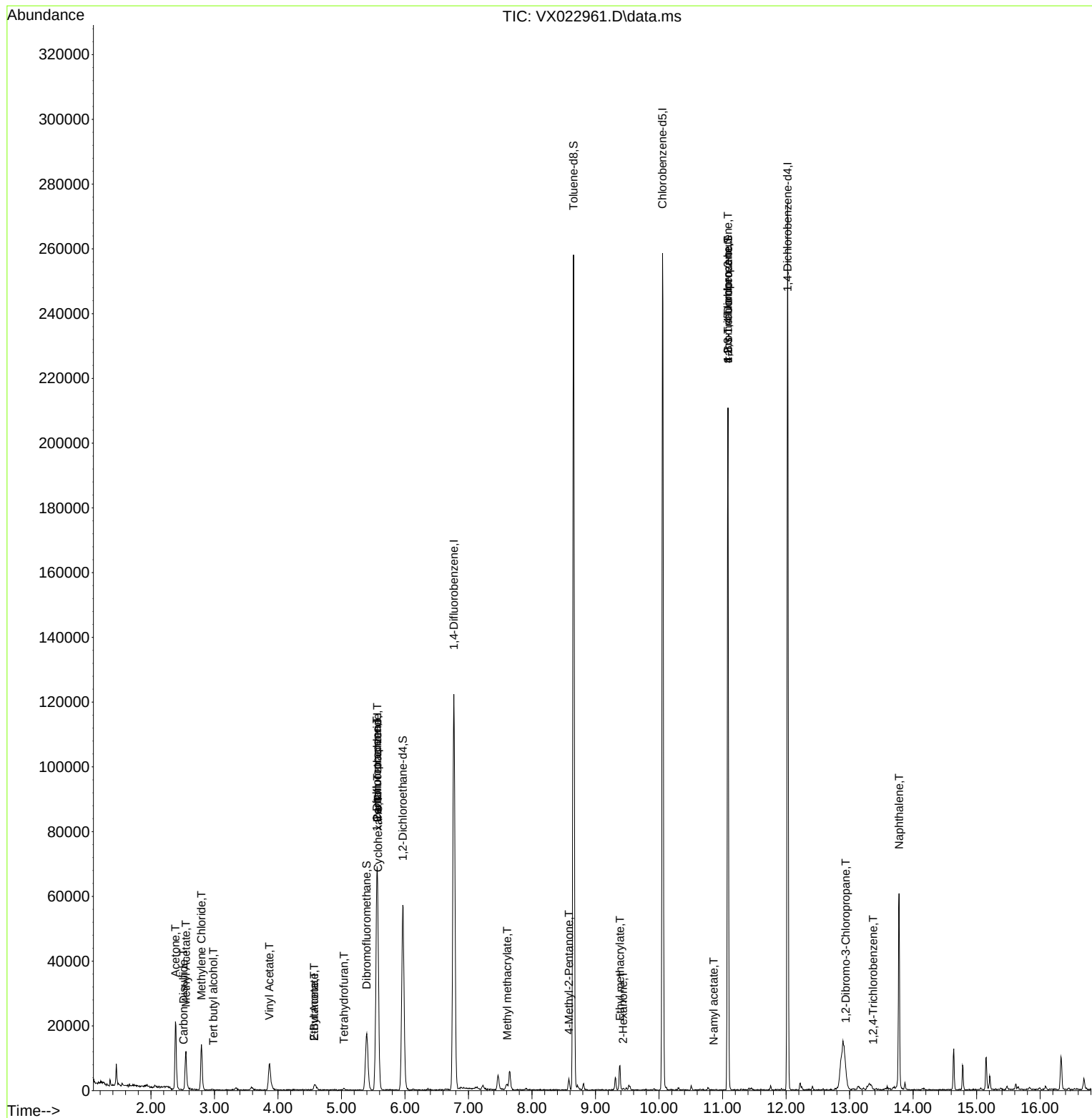
| Compound                      | R.T.           | QIon | Response           | Conc  | Units | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|-------|----------|
| -----                         |                |      |                    |       |       |          |
| Internal Standards            |                |      |                    |       |       |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 55733              | 50.00 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 115199             | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 109573             | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 46097              | 50.00 | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |                    |       |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 52666              | 52.07 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 104.14% |       |       |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 14960              | 20.45 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 40.90%# |       |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 143185             | 49.94 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.88%  |       |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 54720              | 51.14 | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 102.28% |       |       |          |
| Target Compounds              |                |      |                    |       |       |          |
|                               |                |      |                    |       |       | Qvalue   |
| 11) Tert butyl alcohol        | 2.983          | 59   | 133                | 0.63  | ug/l  | # 73     |
| 16) Acetone                   | 2.386          | 43   | 22136              | 49.37 | ug/l  | # 85     |
| 17) Carbon Disulfide          | 2.514          | 76   | 166                | 3.59  | ug/l  | # 75     |
| 18) Methyl Acetate            | 2.550          | 43   | 3922               | 3.55  | ug/l  | # 47     |
| 20) Methylene Chloride        | 2.794          | 84   | 5421               | 6.42  | ug/l  | # 85     |
| 23) Vinyl Acetate             | 3.861          | 43   | 1359               | 0.57  | ug/l  | # 68     |
| 25) 2-Butanone                | 4.568          | 43   | 2308               | 3.31  | ug/l  | # 78     |
| 29) Tetrahydrofuran           | 5.038          | 42   | 247                | 0.55  | ug/l  | # 48     |
| 31) Cyclohexane               | 5.574          | 56   | 1905               | 1.33  | ug/l  | # 33     |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 5744               | 4.69  | ug/l  | # 49     |
| 37) Ethyl Acetate             | 4.568          | 43   | 2308               | 1.63  | ug/l  | # 64     |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 6848               | 6.67  | ug/l  | # 17     |
| 48) Methyl methacrylate       | 7.610          | 41   | 3031               | 2.87  | ug/l  | # 24     |
| 51) 4-Methyl-2-Pentanone      | 8.580          | 43   | 2144               | 1.51  | ug/l  | 91       |
| 56) Ethyl methacrylate        | 9.384          | 69   | 56                 | 2.61  | ug/l  | # 1      |
| 59) 2-Hexanone                | 9.433          | 43   | 438                | 0.41  | ug/l  | 60       |
| 74) N-amyl acetate            | 10.860         | 43   | 61                 | 2.08  | ug/l  | # 38     |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 31966              | 26.25 | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 31966              | 68.19 | ug/l  | # 12     |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939         | 75   | 23                 | 4.04  | ug/l  | # 1      |
| 93) 1,2,4-Trichlorobenzene    | 13.371         | 180  | 231                | 0.27  | ug/l  | # 12     |
| 95) Naphthalene               | 13.780         | 128  | 37100              | 11.42 | ug/l  | 99       |
| -----                         |                |      |                    |       |       |          |

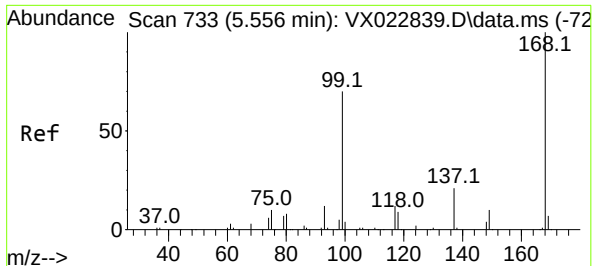
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062521\  
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ClientSampleId :

Quant Time: Jun 26 08:16:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 23 19:12:26 2021  
Response via : Initial Calibration

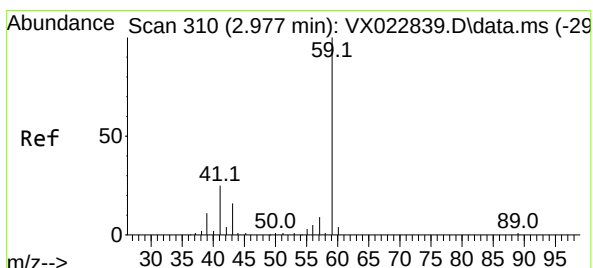
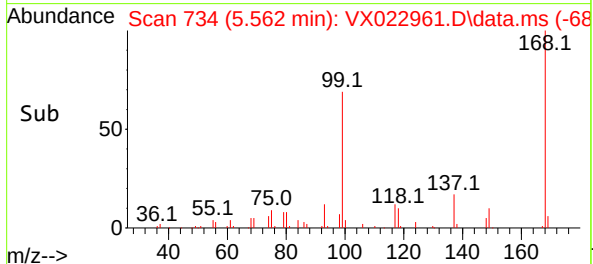
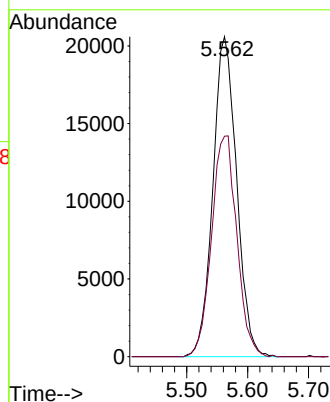
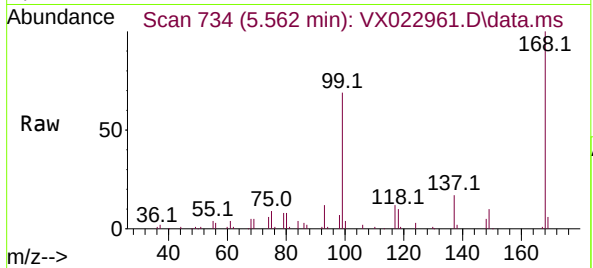




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

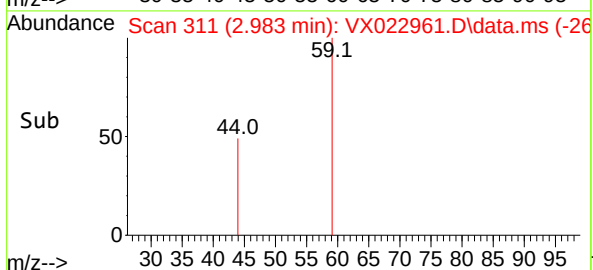
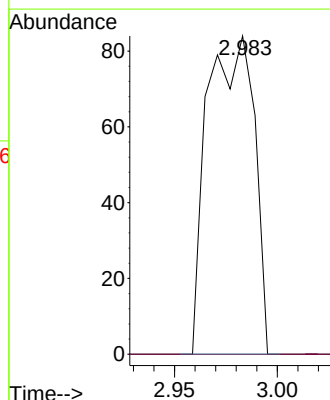
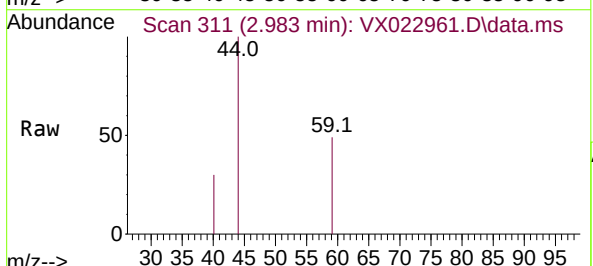
Instrument :  
MSVOA\_X  
ClientSampleId :

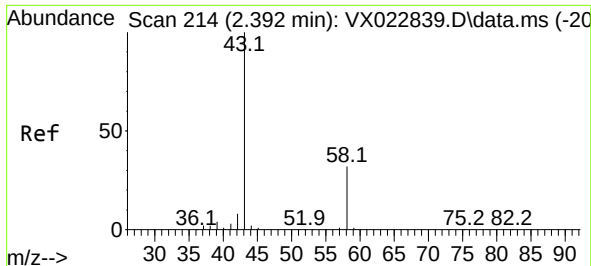
Tgt Ion:168 Resp: 55733  
Ion Ratio Lower Upper  
168 100  
99 68.9 45.8 68.6#



#11  
Tert butyl alcohol  
Concen: 0.63 ug/l  
RT: 2.983 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 59 Resp: 133  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

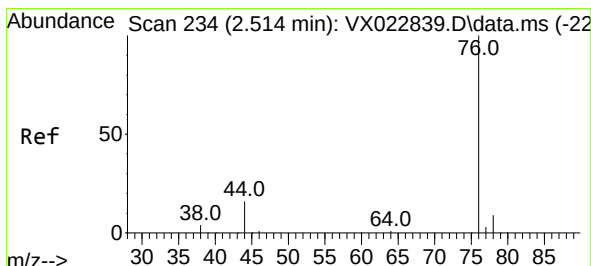
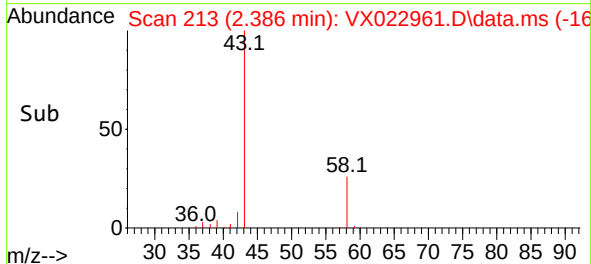
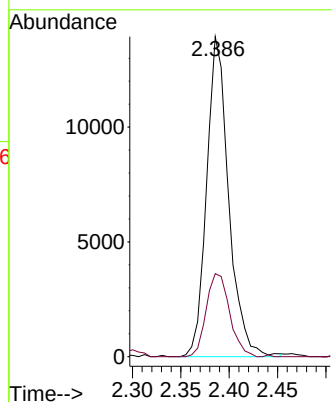
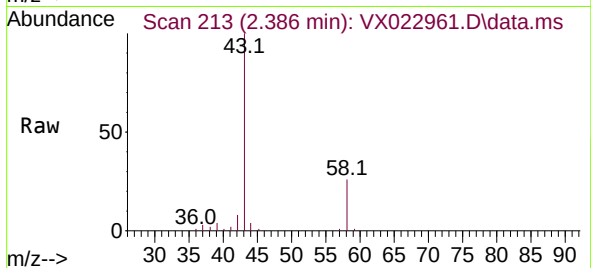




#16  
Acetone  
Concen: 49.37 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

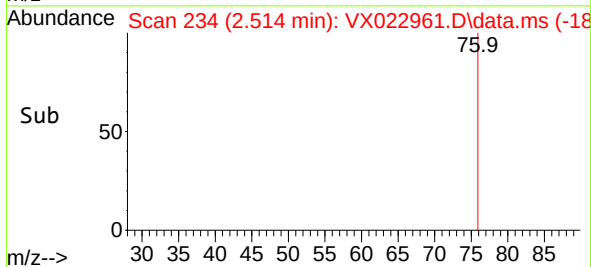
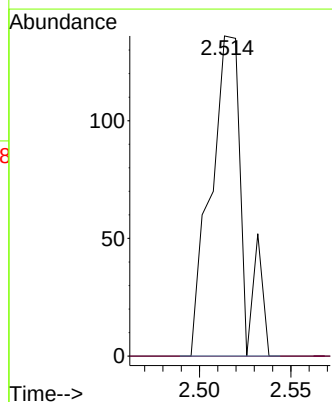
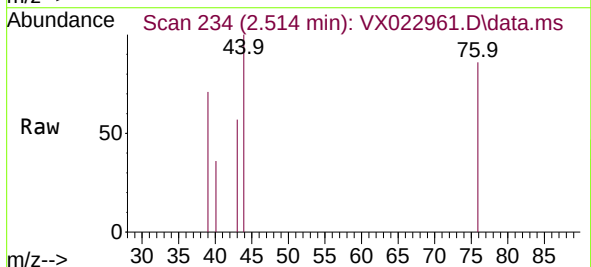
Instrument :  
MSVOA\_X  
ClientSampled :

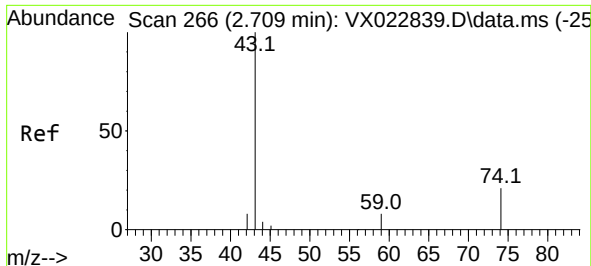
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Ion Ratio Lower Upper  
43 100  
58 26.0 27.8 41.8#



#17  
Carbon Disulfide  
Concen: 3.59 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 76 Resp: 166  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

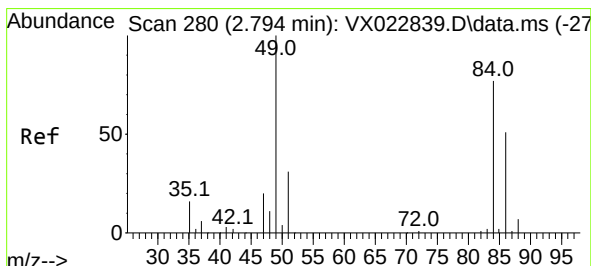
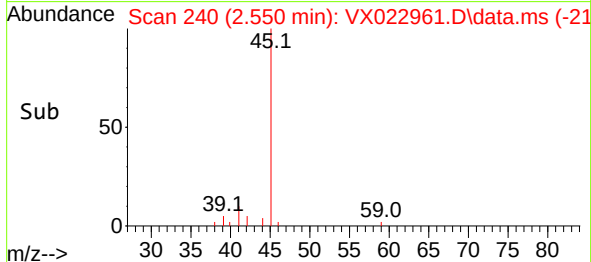
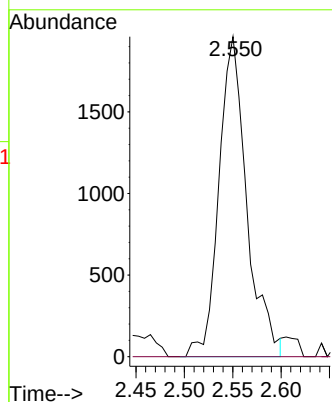
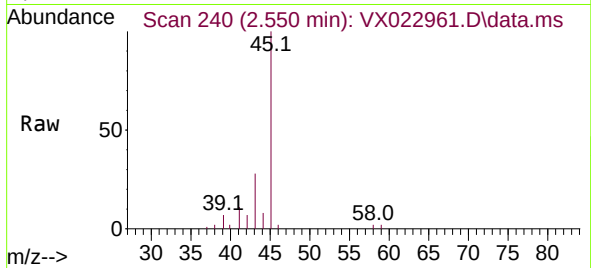




#18  
Methyl Acetate  
Concen: 3.55 ug/l  
RT: 2.550 min Scan# 240  
Delta R.T. -0.159 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

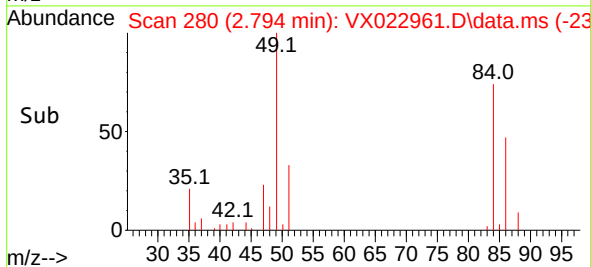
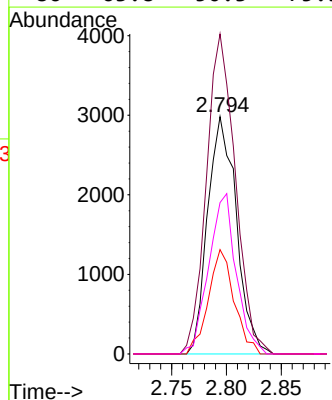
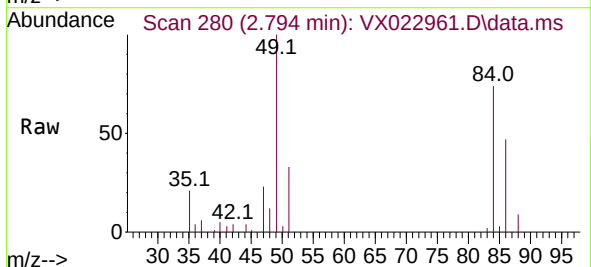
Instrument :  
MSVOA\_X  
ClientSampled :

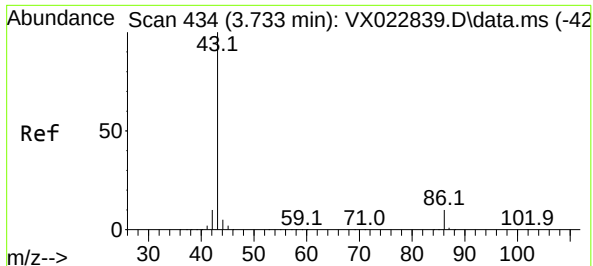
Tgt Ion: 43 Resp: 3922  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#



#20  
Methylene Chloride  
Concen: 6.42 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 84 Resp: 5421  
Ion Ratio Lower Upper  
84 100  
49 134.9 88.6 132.8#  
51 44.0 27.0 40.6#  
86 63.8 50.3 75.5

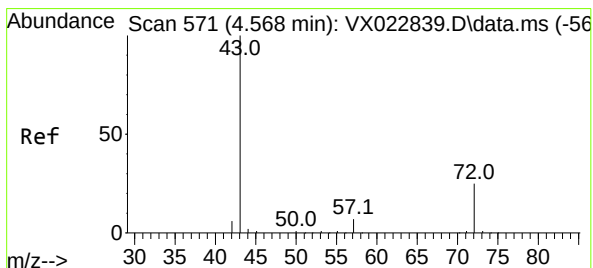
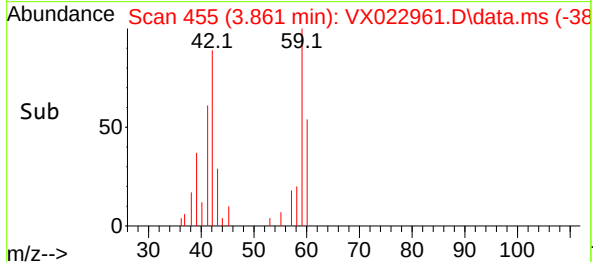
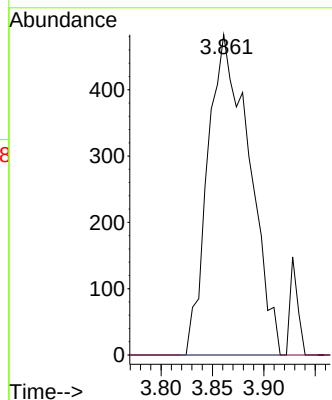
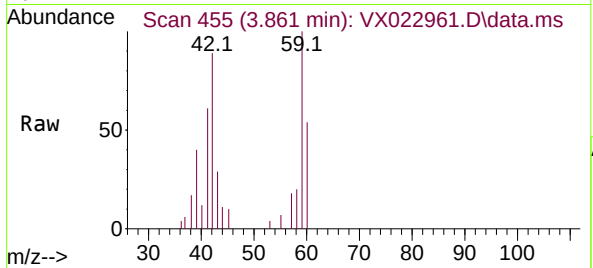




#23  
 Vinyl Acetate  
 Concen: 0.57 ug/l  
 RT: 3.861 min Scan# 455  
 Delta R.T. 0.128 min  
 Lab File: VX022961.D  
 Acq: 26 Jun 2021 07:21

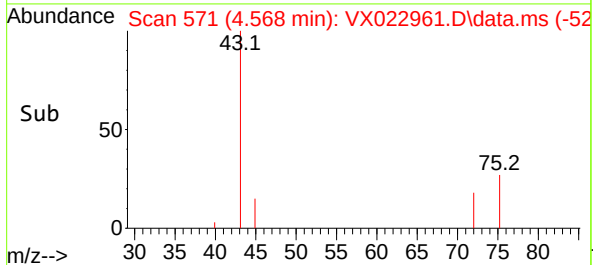
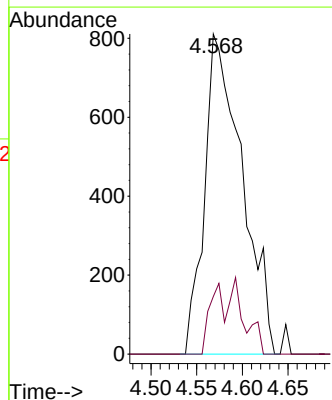
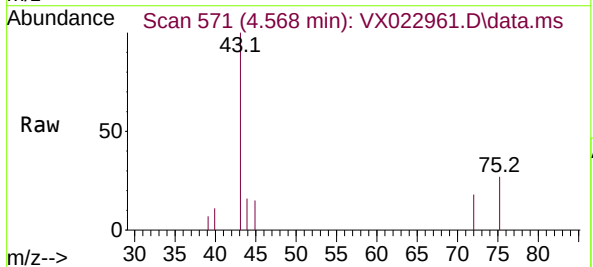
Instrument :  
 MSVOA\_X  
 ClientSampled :

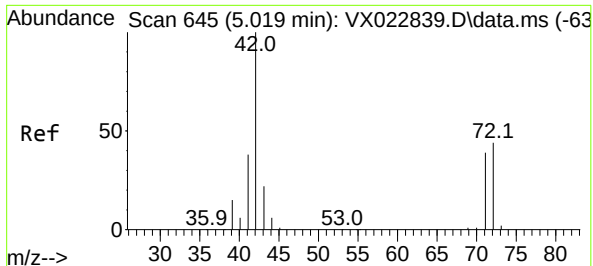
Tgt Ion: 43 Resp: 1359  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 9.9 14.9#



#25  
 2-Butanone  
 Concen: 3.31 ug/l  
 RT: 4.568 min Scan# 571  
 Delta R.T. 0.000 min  
 Lab File: VX022961.D  
 Acq: 26 Jun 2021 07:21

Tgt Ion: 43 Resp: 2308  
 Ion Ratio Lower Upper  
 43 100  
 72 18.0 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 5.038 min Scan# 648

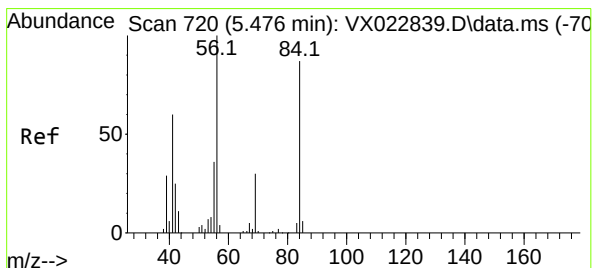
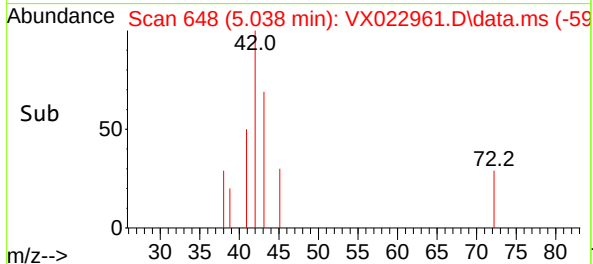
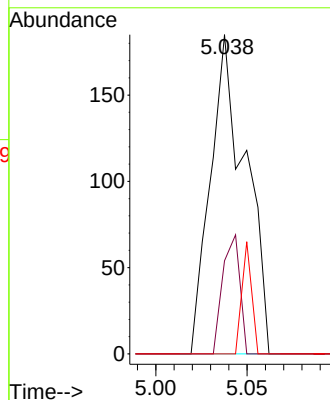
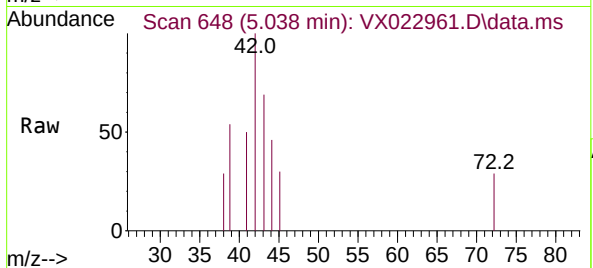
Delta R.T. 0.019 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 247   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 18.2  | 41.7  | 62.5# |
| 71       | 9.7   | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampled :



#31

Cyclohexane

Concen: 1.33 ug/l

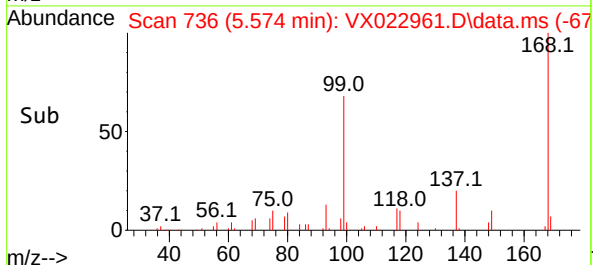
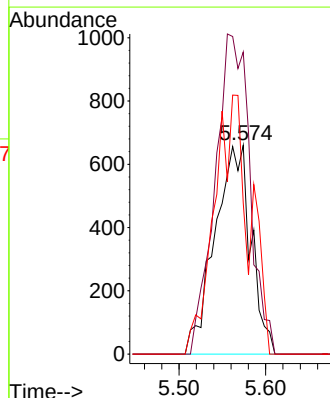
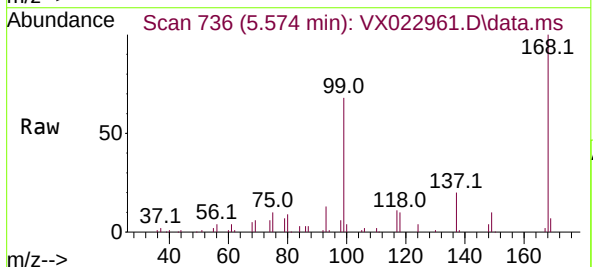
RT: 5.574 min Scan# 736

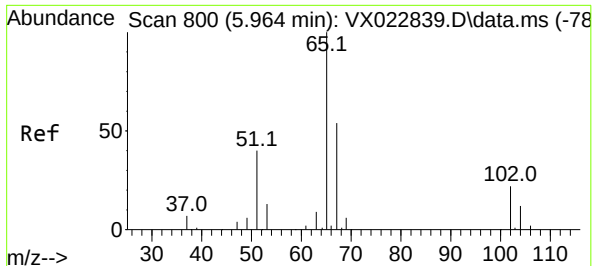
Delta R.T. 0.098 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 1905  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 144.7 | 25.3  | 37.9# |
| 84       | 72.4  | 71.4  | 107.0 |





#33

1,2-Dichloroethane-d4

Concen: 52.07 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

Tgt Ion: 65 Resp: 52666

Ion Ratio Lower Upper

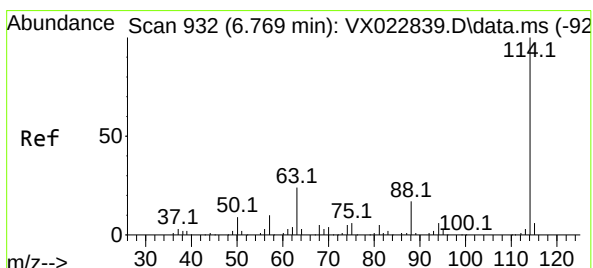
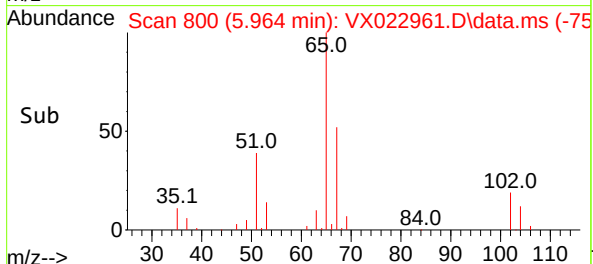
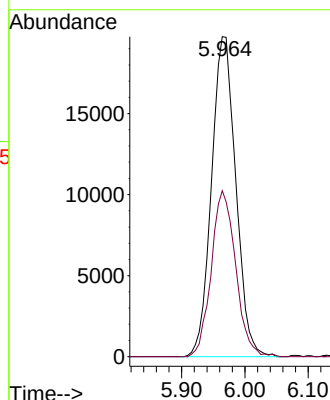
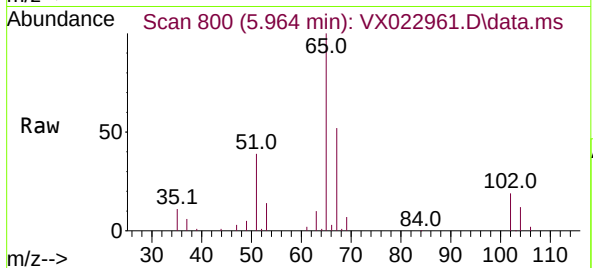
65 100

67 52.0 0.0 105.4

Instrument :

MSVOA\_X

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

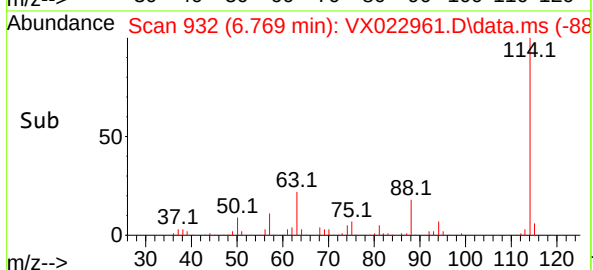
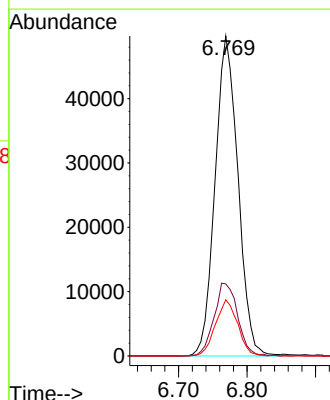
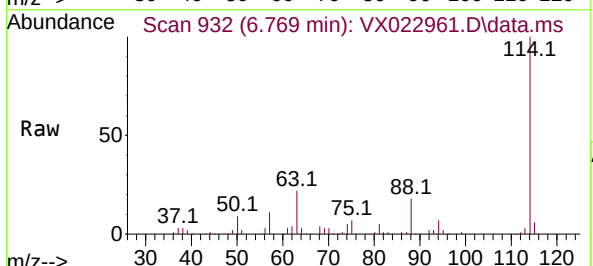
Tgt Ion: 114 Resp: 115199

Ion Ratio Lower Upper

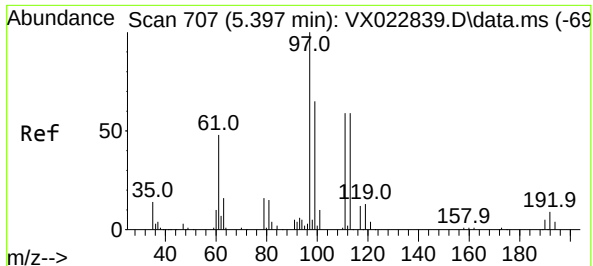
114 100

63 22.5 0.0 40.8

88 17.6 0.0 32.8



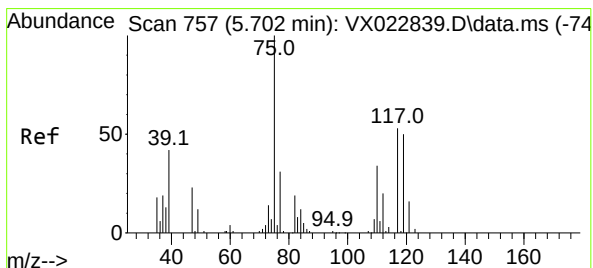
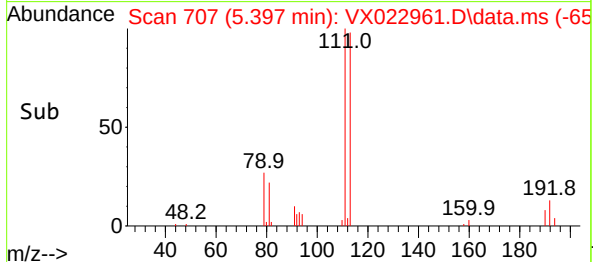
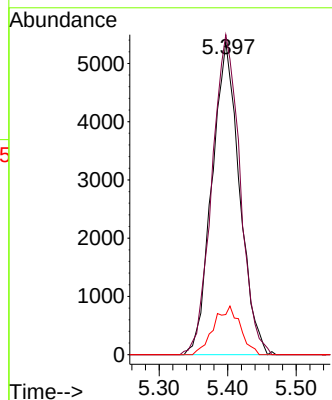
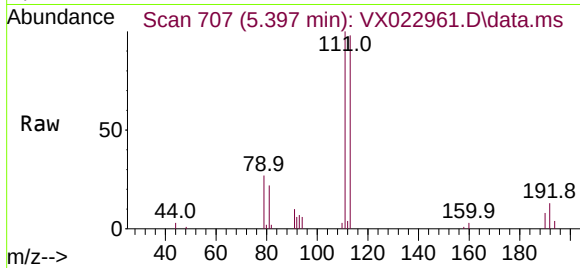




#35  
Dibromofluoromethane  
Concen: 20.45 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

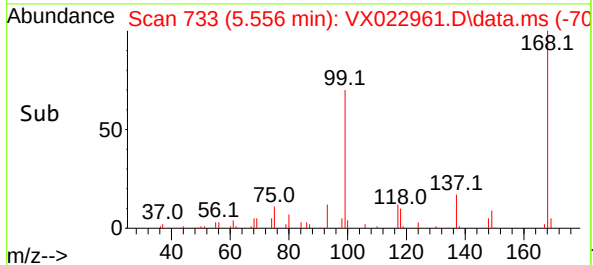
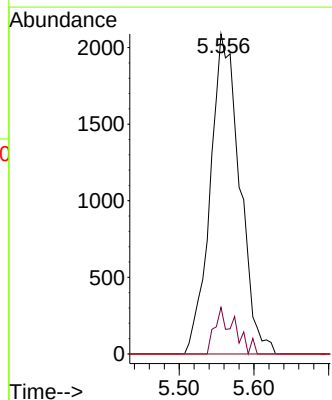
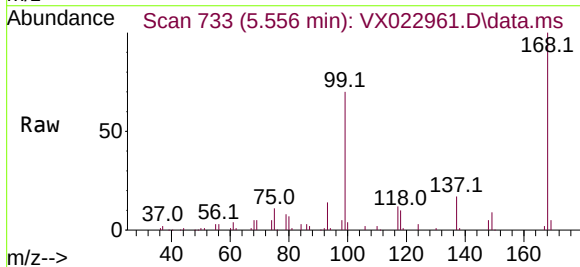
Instrument :  
MSVOA\_X  
ClientSampled :

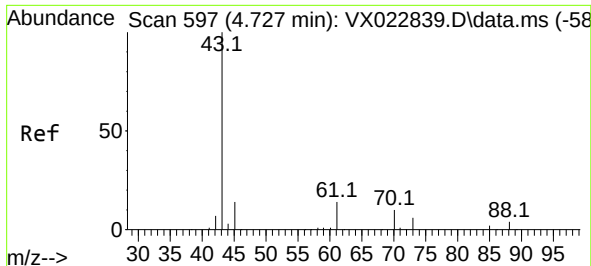
Tgt Ion:113 Resp: 14960  
Ion Ratio Lower Upper  
113 100  
111 104.5 81.9 122.9  
192 14.9 16.7 25.1#



#36  
1,1-Dichloropropene  
Concen: 4.69 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 75 Resp: 5744  
Ion Ratio Lower Upper  
75 100  
110 9.7 18.1 54.4#  
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 1.63 ug/l

RT: 4.568 min Scan# 571

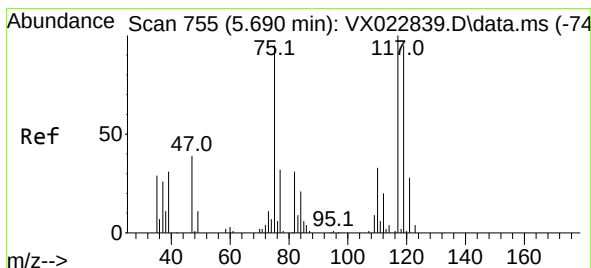
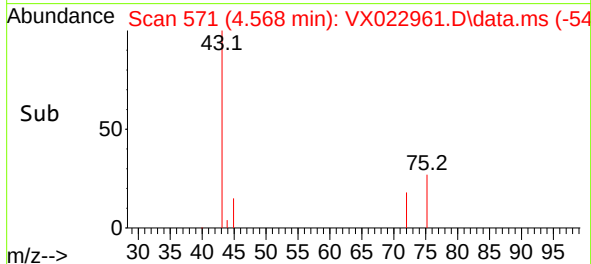
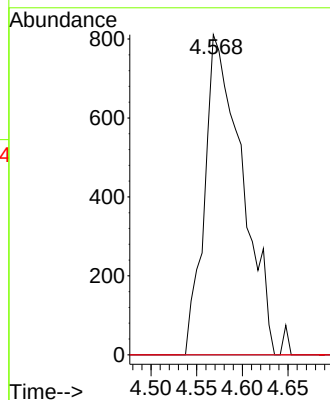
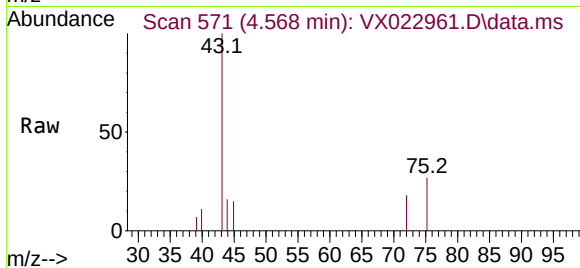
Delta R.T. -0.159 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

Instrument :  
MSVOA\_X  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2308  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.8  | 19.2# |
| 70       | 0.0   | 10.5  | 15.7# |



#38

Carbon Tetrachloride

Concen: 6.67 ug/l

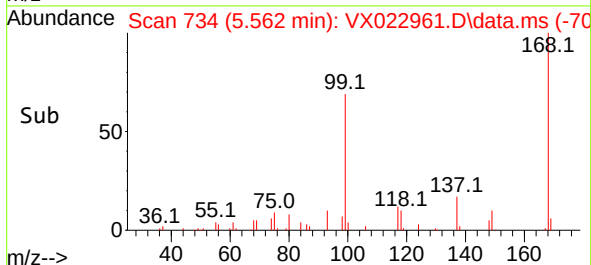
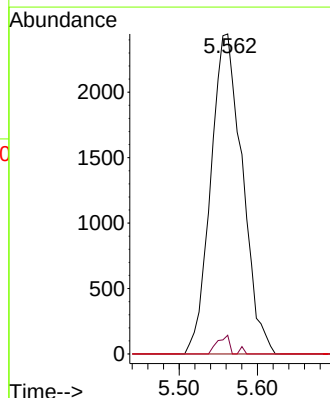
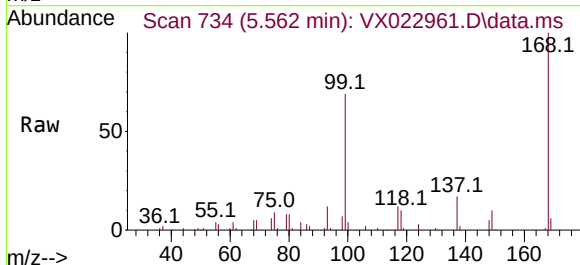
RT: 5.562 min Scan# 734

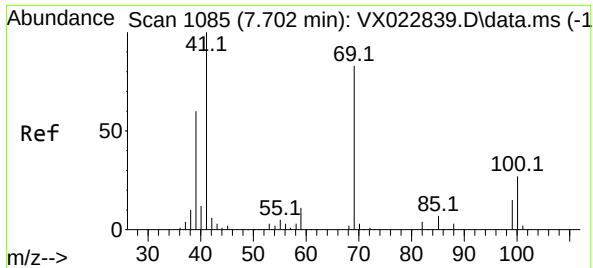
Delta R.T. -0.128 min

Lab File: VX022961.D

Acq: 26 Jun 2021 07:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 6848   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.8   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |

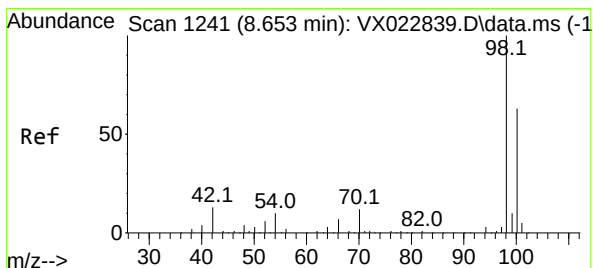
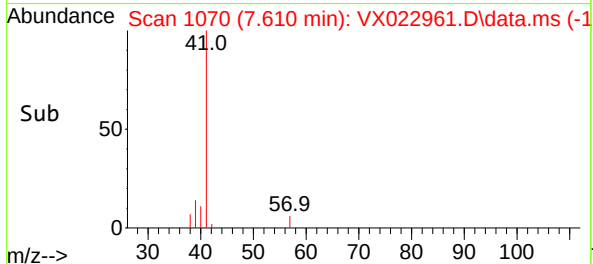
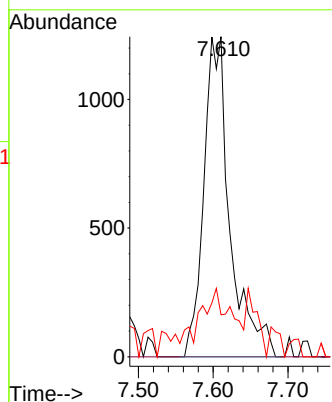
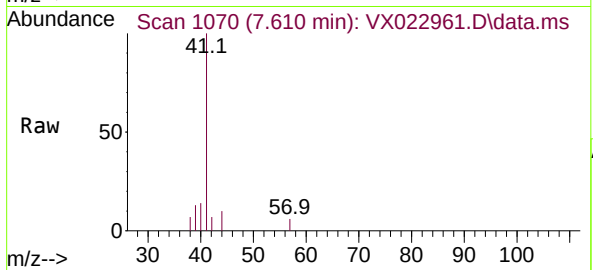




#48  
Methyl methacrylate  
Concen: 2.87 ug/l  
RT: 7.610 min Scan# 1070  
Delta R.T. -0.092 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

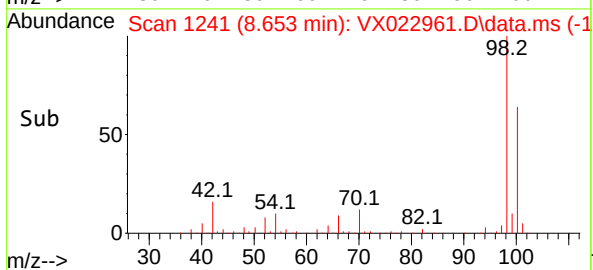
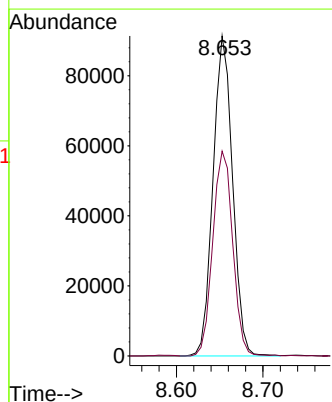
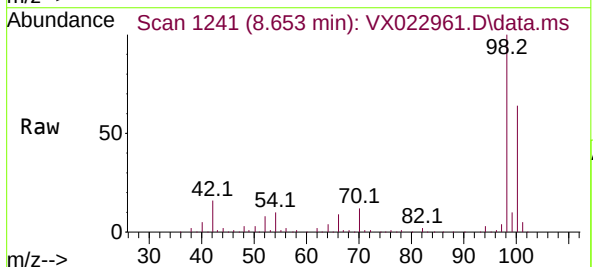
Instrument :  
MSVOA\_X  
ClientSampled :

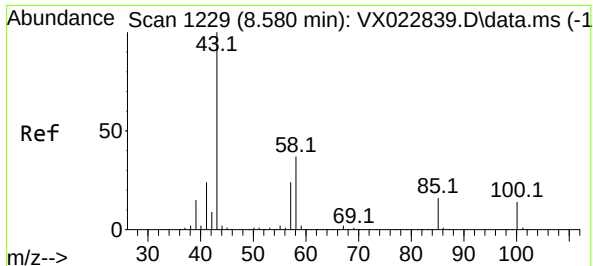
Tgt Ion: 41 Resp: 3031  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 26.6 44.6 67.0#



#50  
Toluene-d8  
Concen: 49.94 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 98 Resp: 143185  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.9 77.9

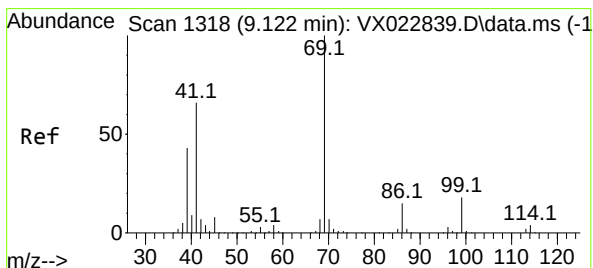
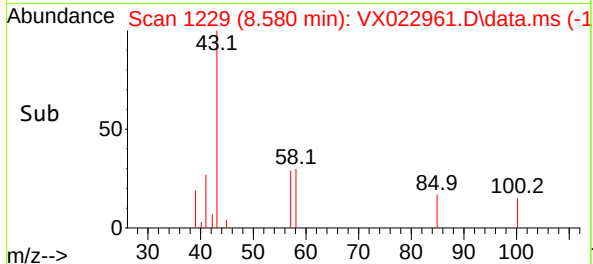
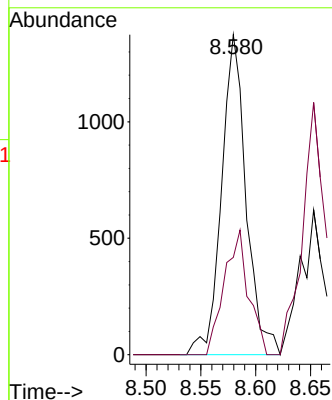
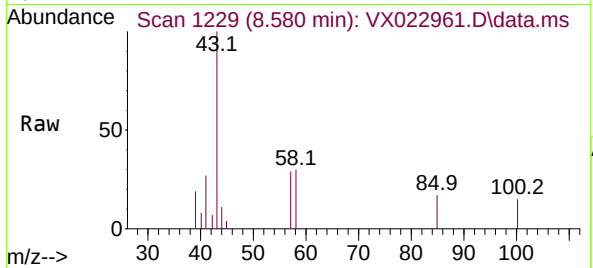




#51  
4-Methyl-2-Pentanone  
Concen: 1.51 ug/l  
RT: 8.580 min Scan# 1229  
Delta R.T. -0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

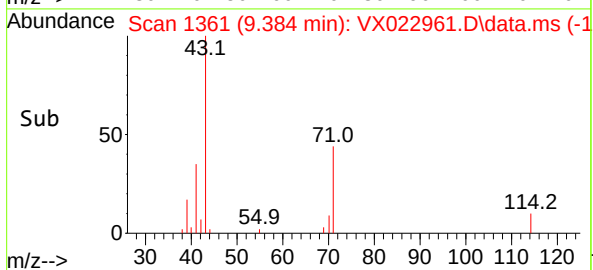
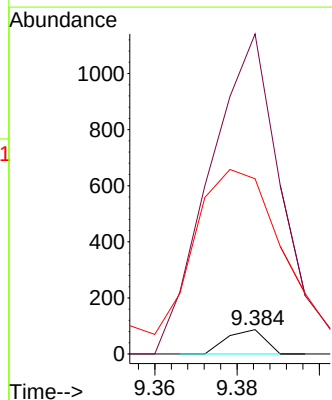
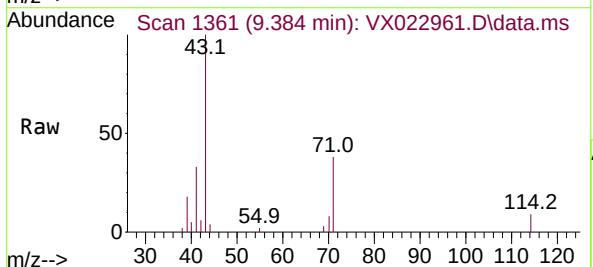
Instrument :  
MSVOA\_X  
ClientSampled :

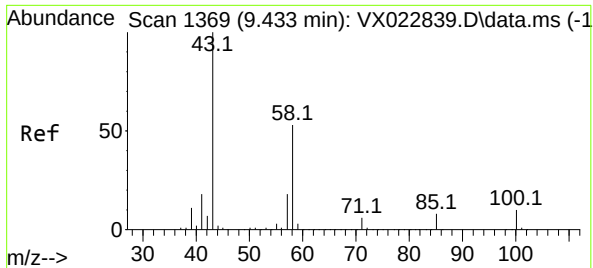
Tgt Ion: 43 Resp: 2144  
Ion Ratio Lower Upper  
43 100  
58 38.4 35.4 53.0



#56  
Ethyl methacrylate  
Concen: 2.61 ug/l  
RT: 9.384 min Scan# 1361  
Delta R.T. 0.262 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 69 Resp: 56  
Ion Ratio Lower Upper  
69 100  
41 2410.7 46.8 70.2#  
39 1848.2 24.7 37.1#

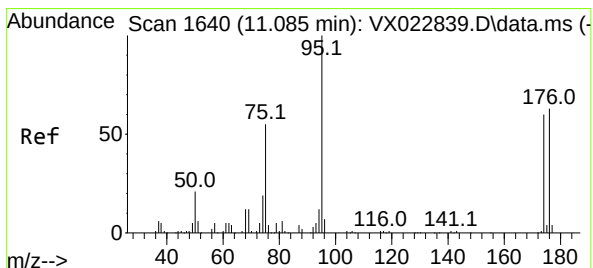
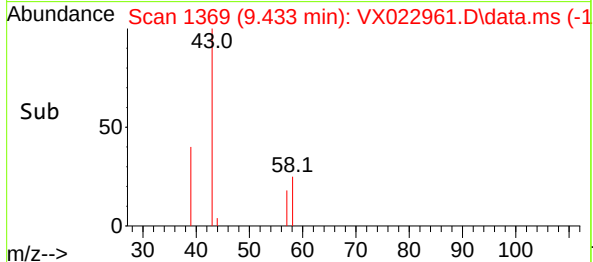
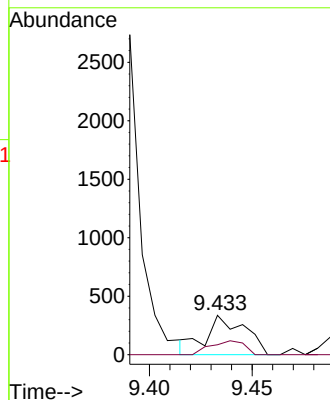
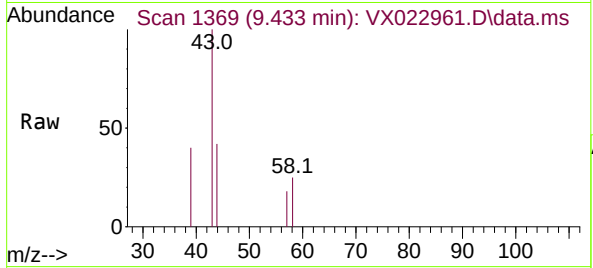




#59  
2-Hexanone  
Concen: 0.41 ug/l  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

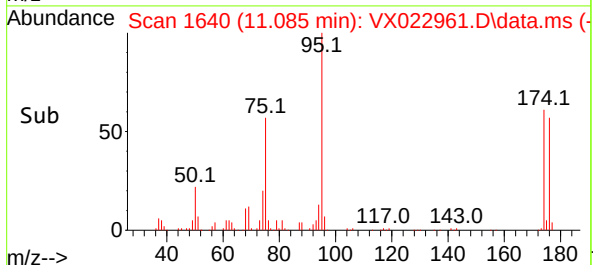
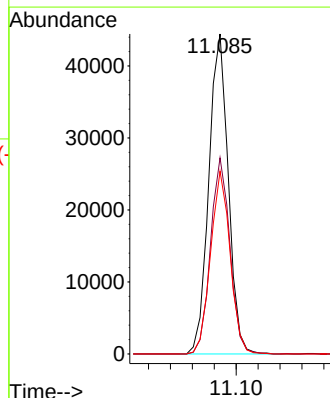
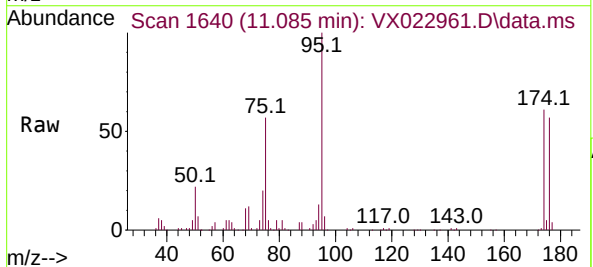
Instrument :  
MSVOA\_X  
ClientSampled :

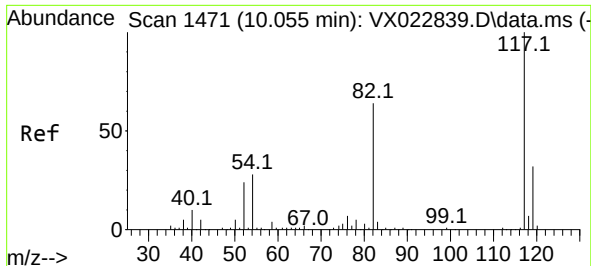
Tgt Ion: 43 Resp: 438  
Ion Ratio Lower Upper  
43 100  
58 31.1 30.9 92.8



#62  
4-Bromofluorobenzene  
Concen: 51.14 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 95 Resp: 54720  
Ion Ratio Lower Upper  
95 100  
174 61.1 0.0 154.6  
176 57.4 0.0 155.8

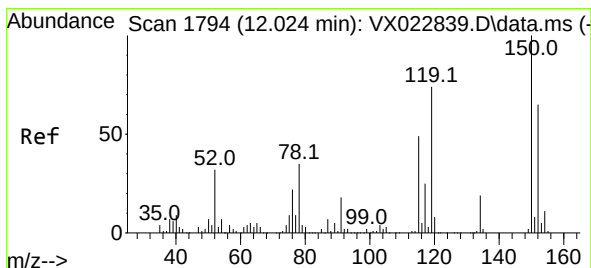
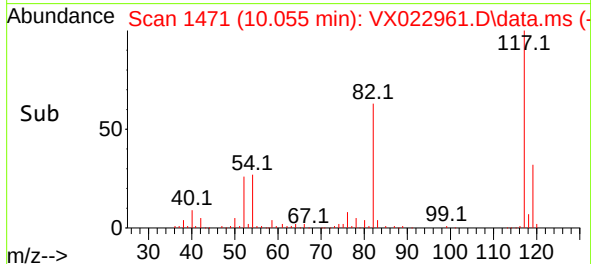
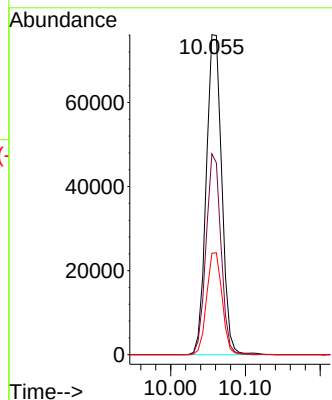
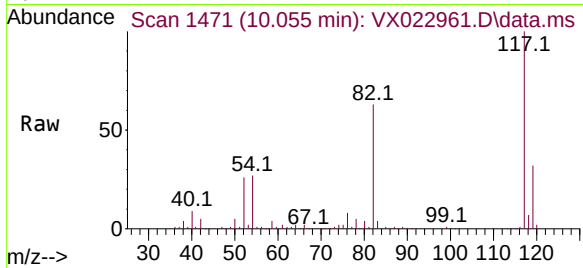




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

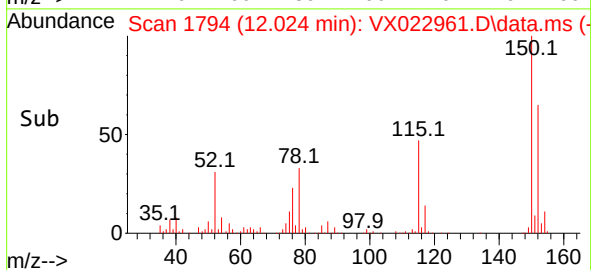
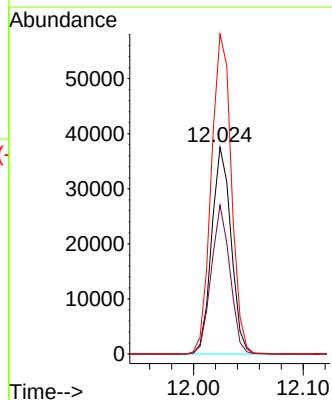
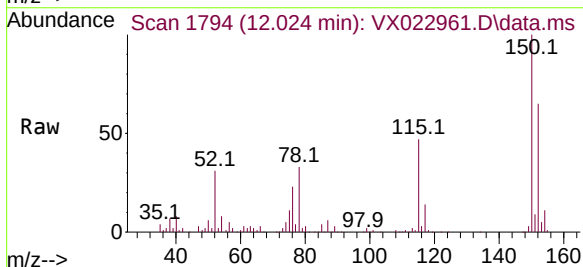
Instrument :  
MSVOA\_X  
ClientSampled :

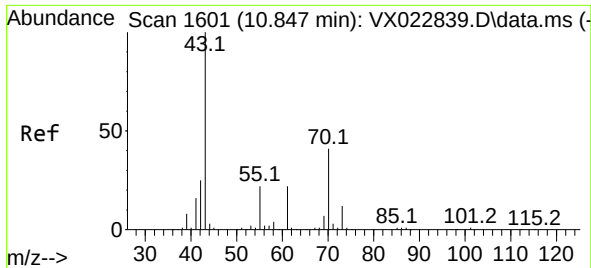
Tgt Ion:117 Resp: 109573  
Ion Ratio Lower Upper  
117 100  
82 62.7 47.4 71.2  
119 31.7 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion:152 Resp: 46097  
Ion Ratio Lower Upper  
152 100  
115 69.6 41.1 123.3  
150 160.4 0.0 349.0

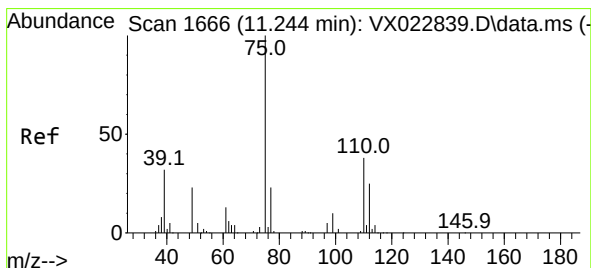
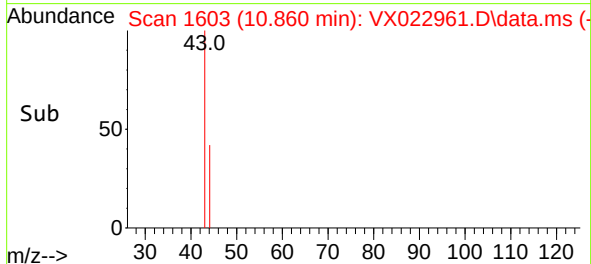
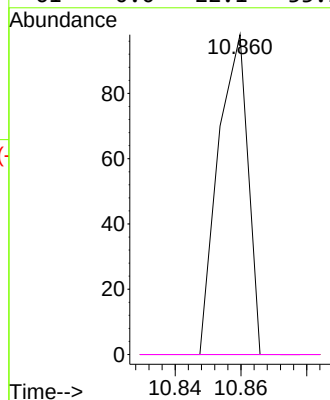
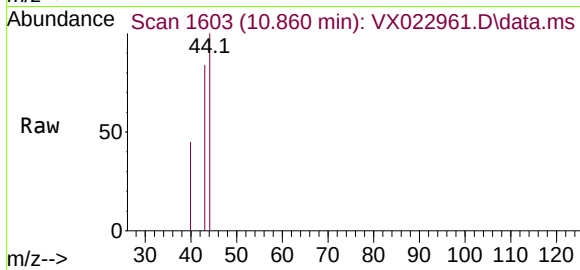




#74  
N-amy1 acetate  
Concen: 2.08 ug/l  
RT: 10.860 min Scan# 1603  
Delta R.T. 0.013 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

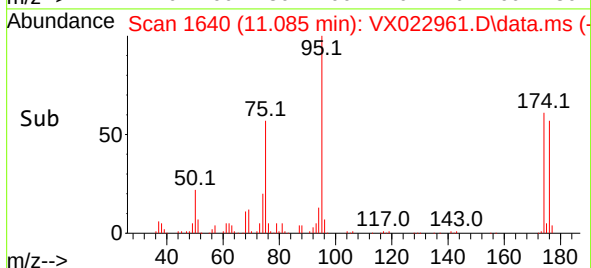
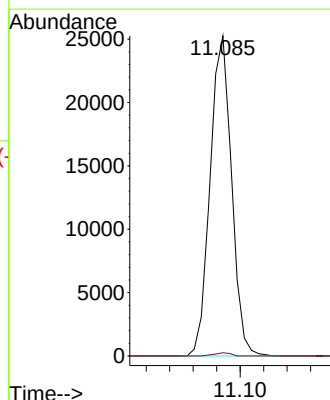
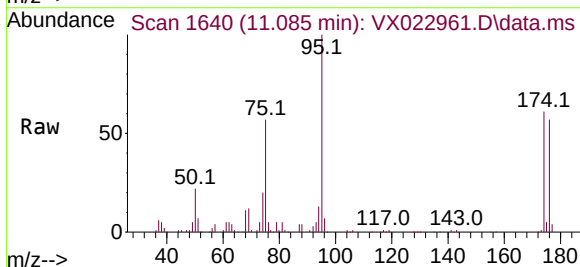
Instrument :  
MSVOA\_X  
ClientSampled :

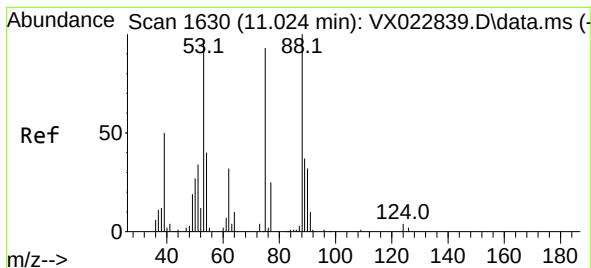
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 61          |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 0.0   | 39.0 58.6#  |
| 55          | 0.0   | 21.5 32.3#  |
| 61          | 0.0   | 22.1 33.1#  |



#76  
1,2,3-Trichloropropane  
Concen: 26.25 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 31966       |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 0.8   | 19.1 57.5#  |

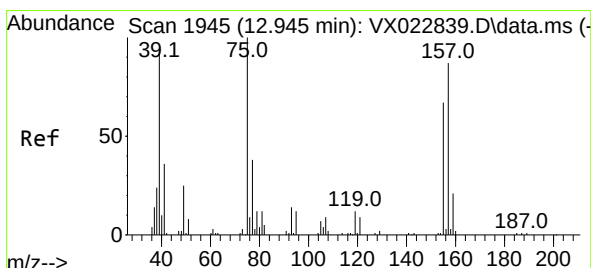
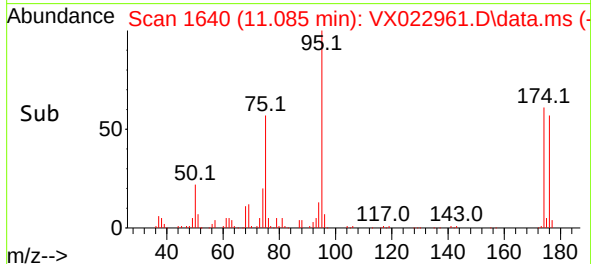
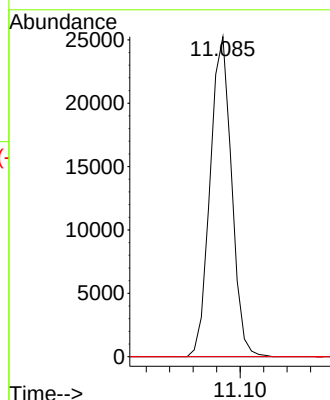
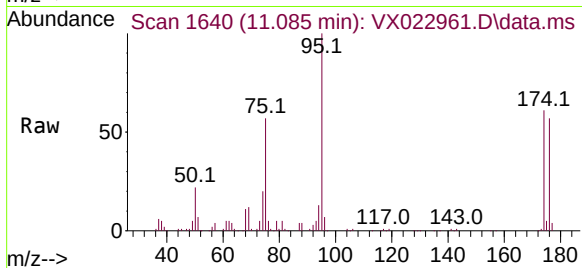




#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.19 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

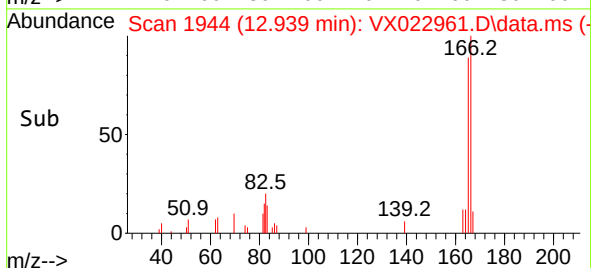
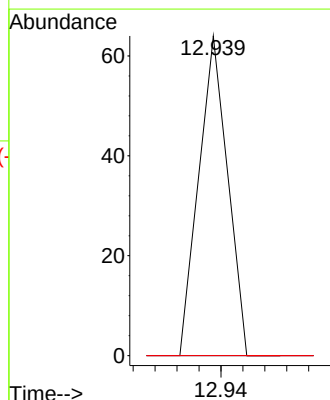
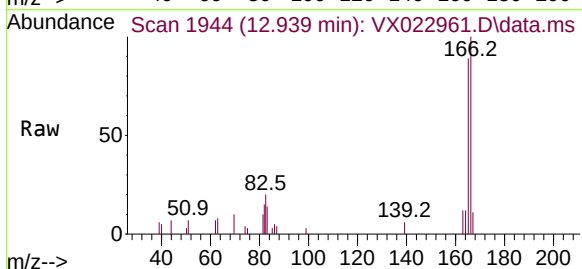
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 31966  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

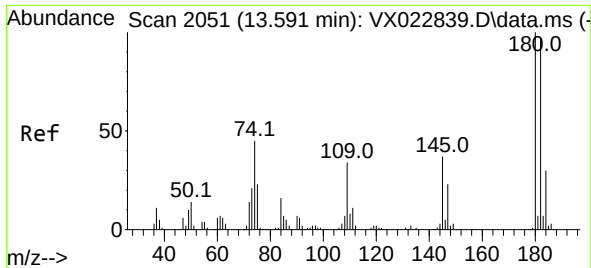


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 4.04 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.006 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion: 75 Resp: 23  
Ion Ratio Lower Upper  
75 100  
155 0.0 45.3 135.9#  
157 0.0 57.7 173.1#



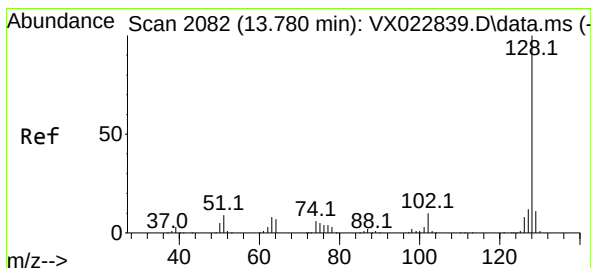
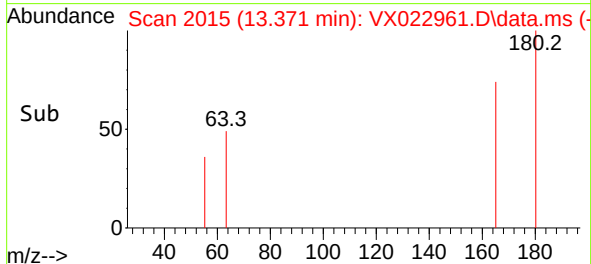
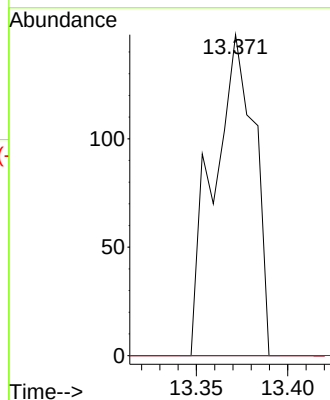
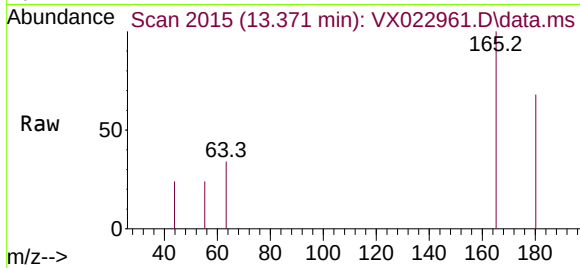




#93  
1,2,4-Trichlorobenzene  
Concen: 0.27 ug/l  
RT: 13.371 min Scan# 2015  
Delta R.T. -0.220 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:180 Resp: 231  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.7 143.1#  
145 0.0 15.0 45.0#



#95  
Naphthalene  
Concen: 11.42 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX022961.D  
Acq: 26 Jun 2021 07:21

Tgt Ion:128 Resp: 37100  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.3 15.5  
129 10.8 8.8 13.2

