

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062521\  
 Data File : VX022953.D  
 Acq On : 26 Jun 2021 04:12  
 Operator : JC/MD  
 Sample : PB137293ZHE#09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

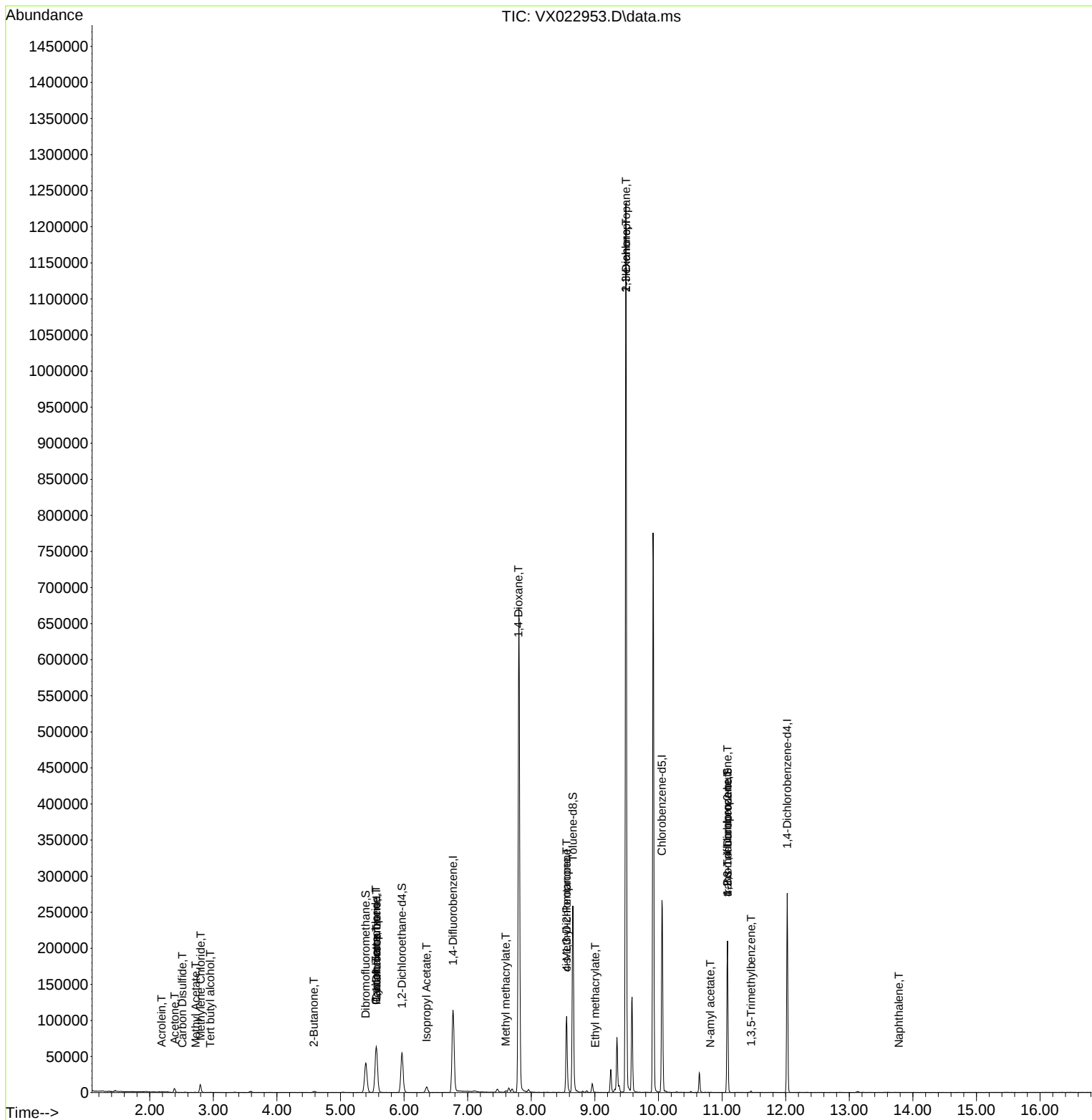
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 26 07:37:20 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         | 5.568    | 168   | 52099    | 50.00  | ug/l    | # 0.01   |
| 34) 1,4-Difluorobenzene       | 6.769    | 114   | 109033   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 10.055   | 117   | 109815   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024   | 152   | 46829    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds   |          |       |          |        |         |          |
| 33) 1,2-Dichloroethane-d4     | 5.964    | 65    | 49279    | 52.12  | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 78 | - 117 | Recovery | =      | 104.24% |          |
| 35) Dibromofluoromethane      | 5.397    | 113   | 34149    | 49.32  | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 75 | - 124 | Recovery | =      | 98.64%  |          |
| 50) Toluene-d8                | 8.653    | 98    | 144263   | 53.16  | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 92 | - 112 | Recovery | =      | 106.32% |          |
| 62) 4-Bromofluorobenzene      | 11.085   | 95    | 54053    | 53.37  | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 83 | - 123 | Recovery | =      | 106.74% |          |
| Target Compounds              |          |       |          |        |         |          |
|                               |          |       |          |        |         | Qvalue   |
| 11) Tert butyl alcohol        | 2.953    | 59    | 150      | 0.76   | ug/l    | # 73     |
| 13) Acrolein                  | 2.184    | 56    | 27       | 0.22   | ug/l    | # 14     |
| 16) Acetone                   | 2.392    | 43    | 6053     | 14.44  | ug/l    | 93       |
| 17) Carbon Disulfide          | 2.514    | 76    | 25       | 3.53   | ug/l    | # 75     |
| 18) Methyl Acetate            | 2.721    | 43    | 472      | 0.46   | ug/l    | # 47     |
| 20) Methylene Chloride        | 2.800    | 84    | 4370     | 5.59   | ug/l    | # 87     |
| 25) 2-Butanone                | 4.580    | 43    | 1370     | 2.10   | ug/l    | # 73     |
| 31) Cyclohexane               | 5.562    | 56    | 1563     | 1.17   | ug/l    | # 1      |
| 36) 1,1-Dichloropropene       | 5.562    | 75    | 5686     | 4.91   | ug/l    | # 46     |
| 38) Carbon Tetrachloride      | 5.556    | 117   | 6412     | 6.60   | ug/l    | # 12     |
| 43) Isopropyl Acetate         | 6.354    | 43    | 10393    | 4.82   | ug/l    | # 91     |
| 48) Methyl methacrylate       | 7.598    | 41    | 2962     | 2.97   | ug/l    | # 10     |
| 49) 1,4-Dioxane               | 7.799    | 88    | 41       | 1.91   | ug/l    | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.555    | 43    | 36874    | 27.47  | ug/l    | # 45     |
| 54) cis-1,3-Dichloropropene   | 8.555    | 75    | 16310    | 13.14  | ug/l    | # 67     |
| 56) Ethyl methacrylate        | 9.006    | 69    | 63       | 2.62   | ug/l    | # 29     |
| 57) 1,3-Dichloropropane       | 9.488    | 76    | 10270    | 6.98   | ug/l    | # 42     |
| 59) 2-Hexanone                | 9.488    | 43    | 145319   | 142.70 | ug/l    | # 43     |
| 74) N-amyl acetate            | 10.817   | 43    | 245      | 2.16   | ug/l    | # 38     |
| 76) 1,2,3-Trichloropropane    | 11.085   | 75    | 30597    | 24.74  | ug/l    | # 39     |
| 80) 1,3,5-Trimethylbenzene    | 11.457   | 105   | 1187     | 0.36   | ug/l    | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.085   | 75    | 30597    | 64.62  | ug/l    | # 12     |
| 95) Naphthalene               | 13.780   | 128   | 183      | 1.97   | ug/l    | # 69     |
| -----                         |          |       |          |        |         |          |

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

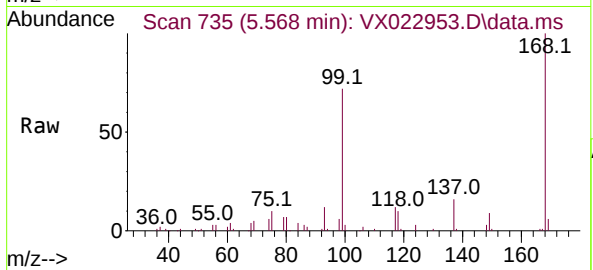
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 23 19:12:26 2021  
Response via : Initial Calibration



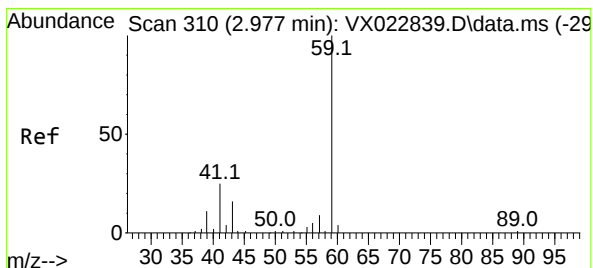
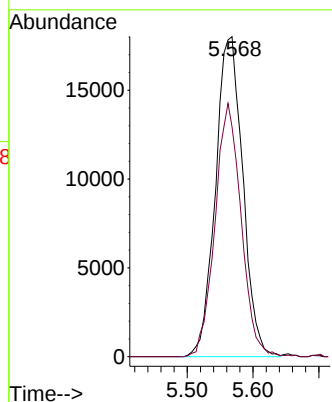
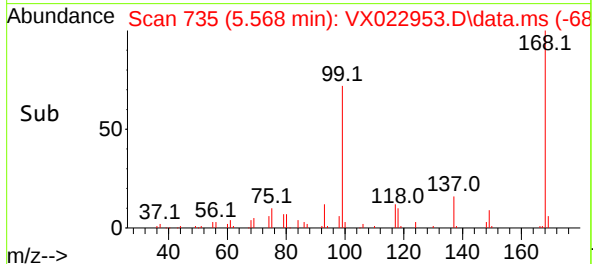


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. 0.012 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

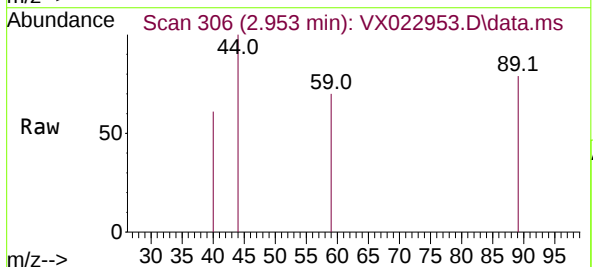
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MSVOA\_X  
ClientSampleId :



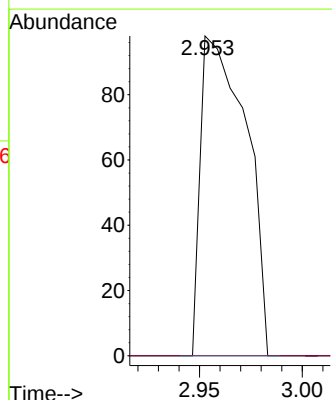
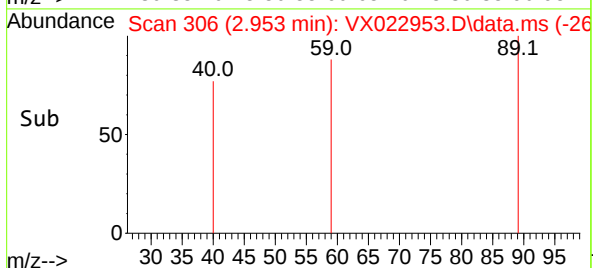
Tgt Ion:168 Resp: 52099  
Ion Ratio Lower Upper  
168 100  
99 71.8 45.8 68.6#

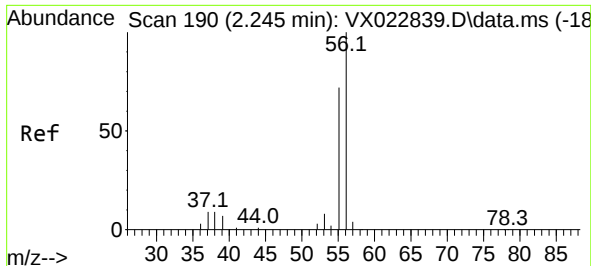


#11  
Tert butyl alcohol  
Concen: 0.76 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.024 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12



Tgt Ion: 59 Resp: 150  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

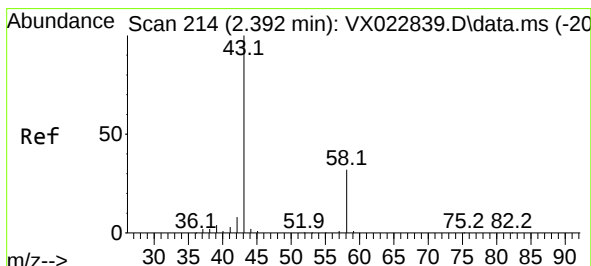
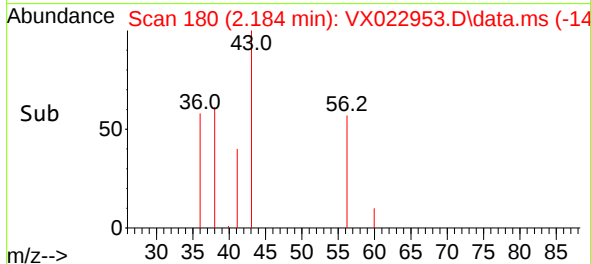
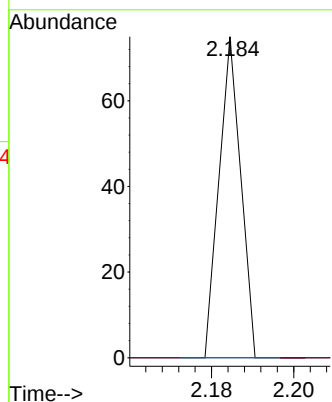
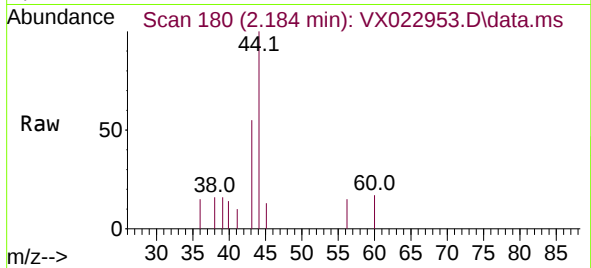




#13  
Acrolein  
Concen: 0.22 ug/l  
RT: 2.184 min Scan# 180  
Delta R.T. -0.061 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

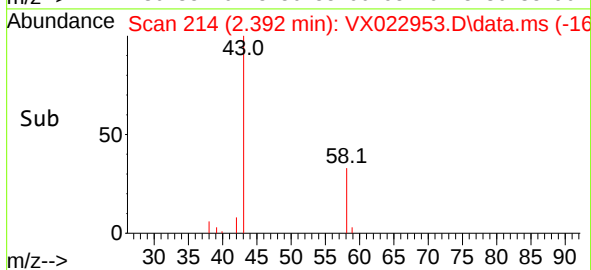
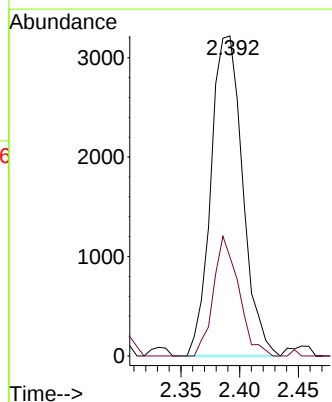
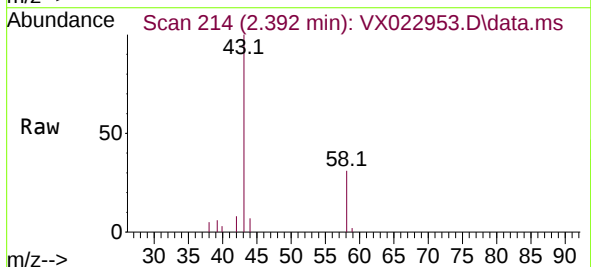
Instrument :  
MSVOA\_X  
ClientSampled :

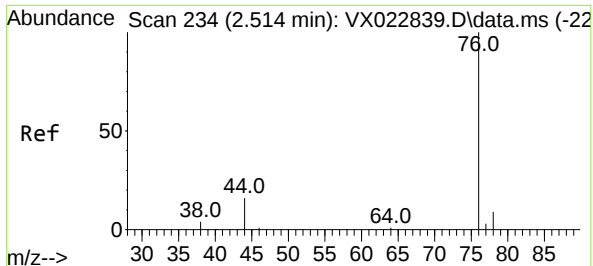
Tgt Ion: 56 Resp: 27  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 14.44 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 43 Resp: 6053  
Ion Ratio Lower Upper  
43 100  
58 30.9 27.8 41.8

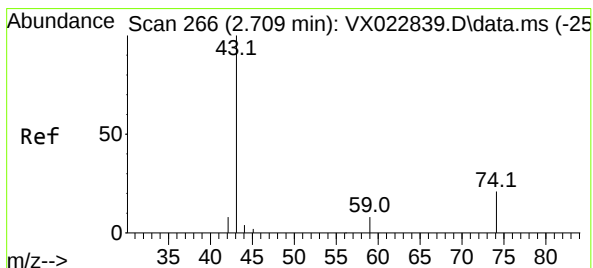
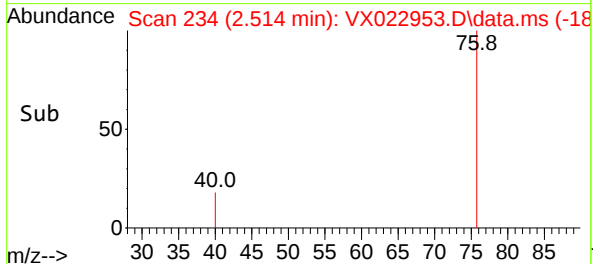
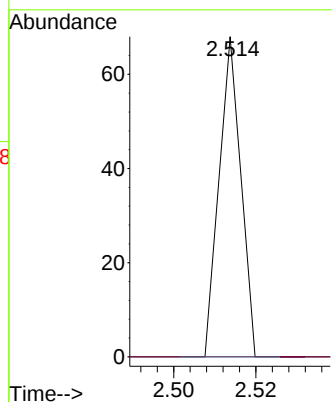
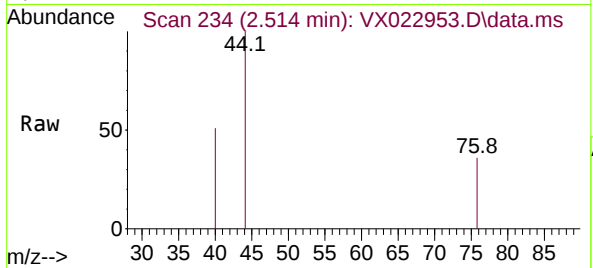




#17  
Carbon Disulfide  
Concen: 3.53 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

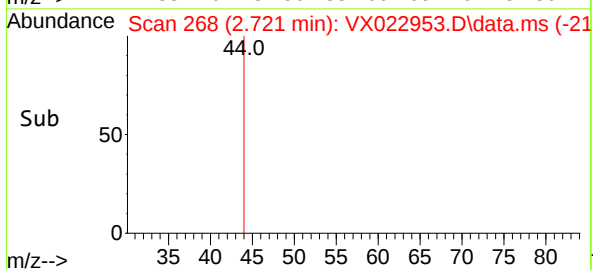
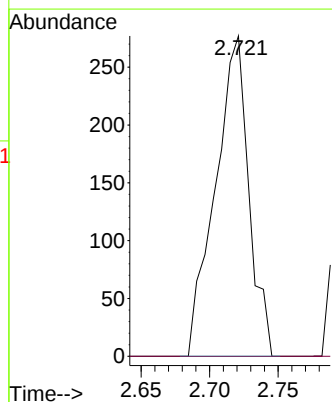
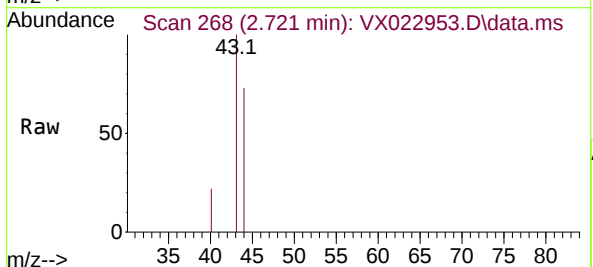
Instrument :  
MSVOA\_X  
ClientSampleId :

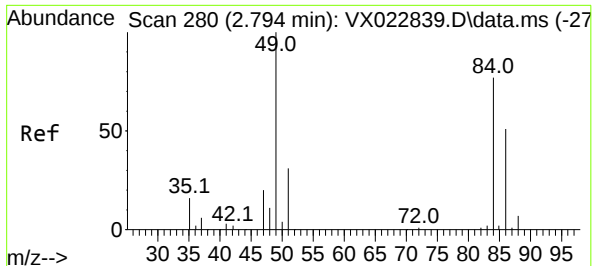
Tgt Ion: 76 Resp: 25  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.46 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 43 Resp: 472  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#





#20

Methylene Chloride

Concen: 5.59 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.006 min

Lab File: VX022953.D

Acq: 26 Jun 2021 04:12

Tgt Ion: 84 Resp: 4370

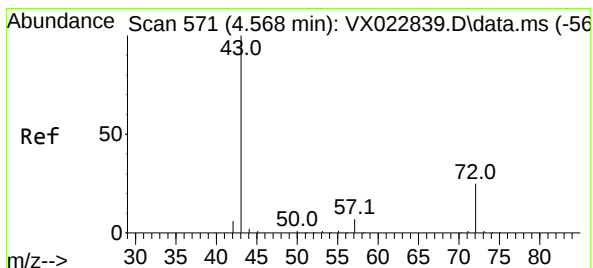
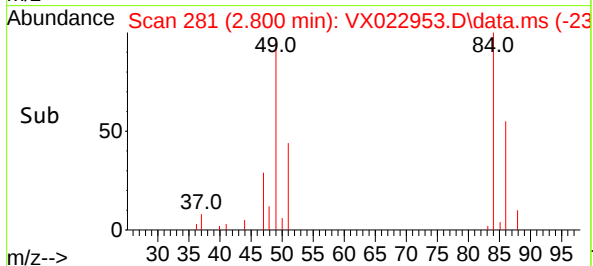
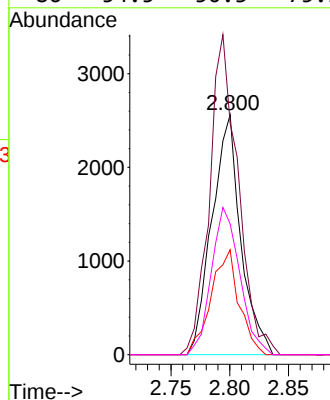
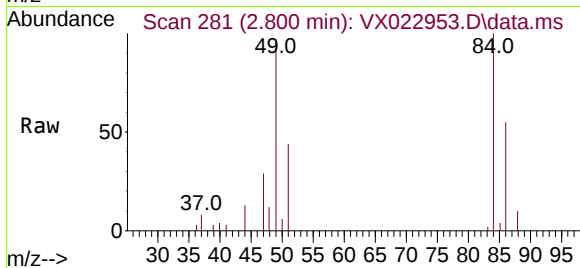
Ion Ratio Lower Upper

84 100

49 96.6 88.6 132.8

51 43.7 27.0 40.6#

86 54.5 50.3 75.5



#25

2-Butanone

Concen: 2.10 ug/l

RT: 4.580 min Scan# 573

Delta R.T. 0.012 min

Lab File: VX022953.D

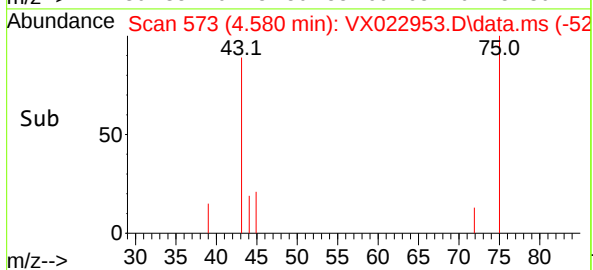
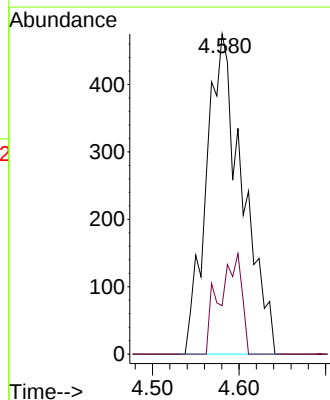
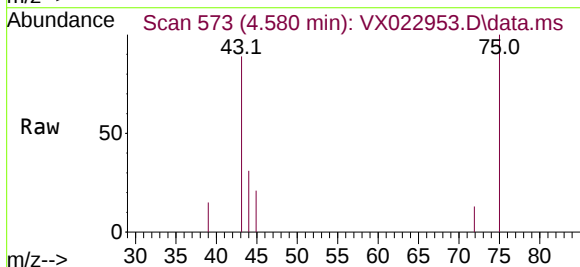
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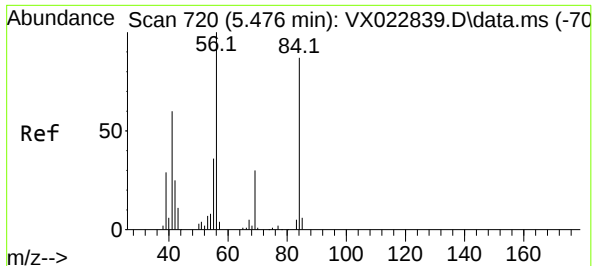
Tgt Ion: 43 Resp: 1370

Ion Ratio Lower Upper

43 100

72 15.2 23.7 35.5#

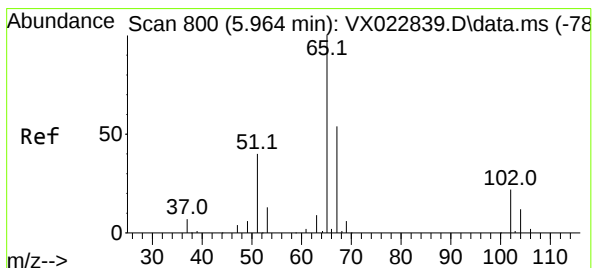
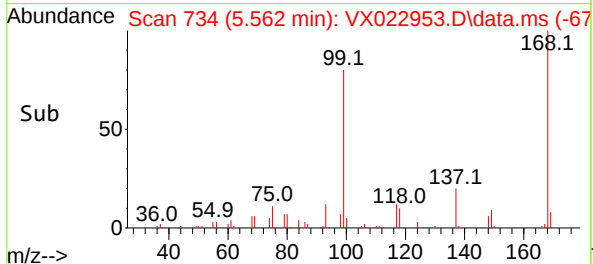
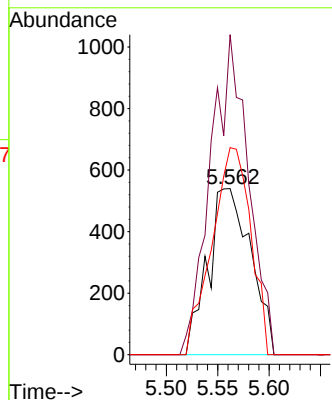
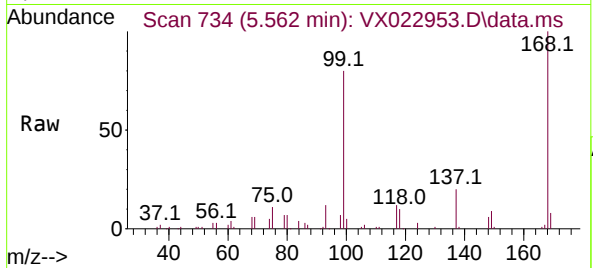




#31  
Cyclohexane  
Concen: 1.17 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.086 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

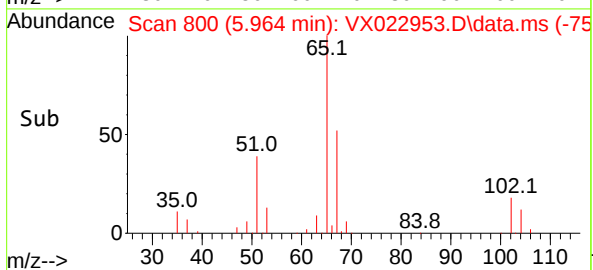
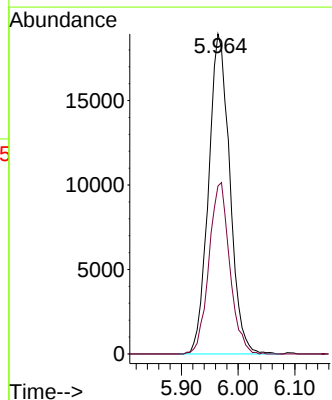
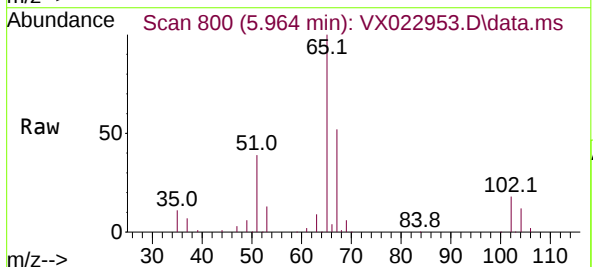
Instrument :  
MSVOA\_X  
ClientSampleId :

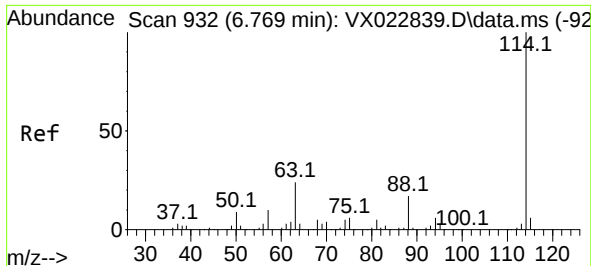
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Ion Ratio Lower Upper  
56 100  
69 192.6 25.3 37.9#  
84 124.6 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 52.12 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 65 Resp: 49279  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 105.4

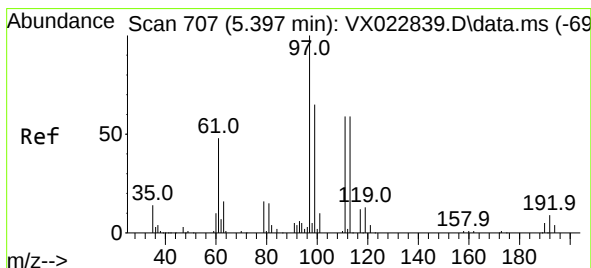
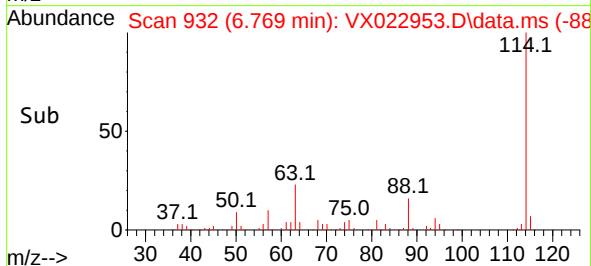
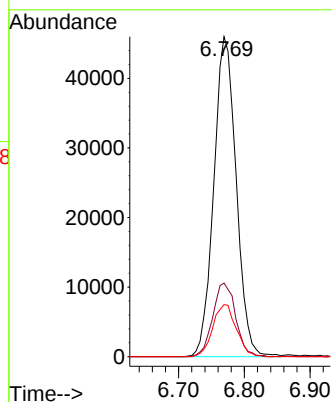
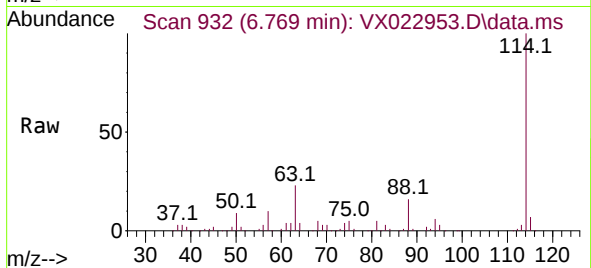




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

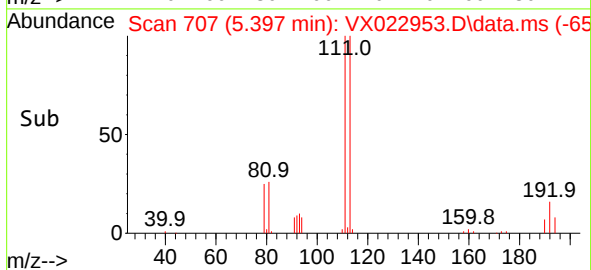
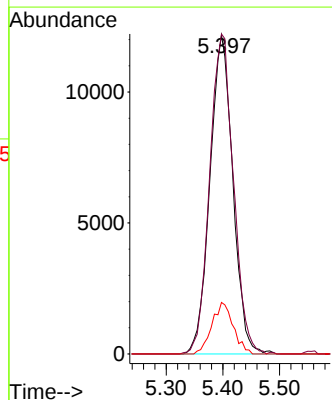
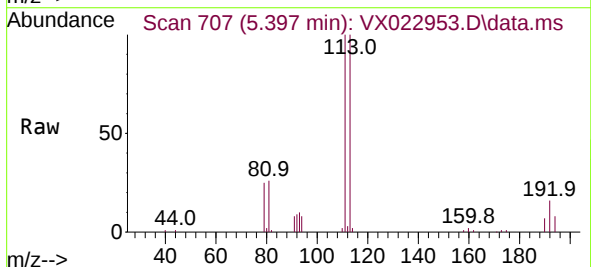
Instrument :  
MSVOA\_X  
ClientSampleId :

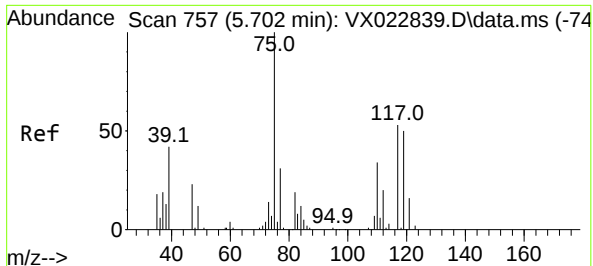
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Ion Ratio Lower Upper  
114 100  
63 23.0 0.0 40.8  
88 16.3 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.32 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion:113 Resp: 34149  
Ion Ratio Lower Upper  
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111 104.0 81.9 122.9  
192 15.1 16.7 25.1#

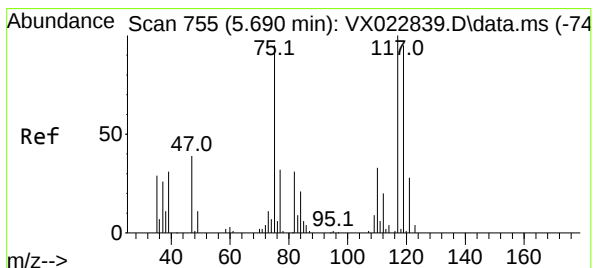
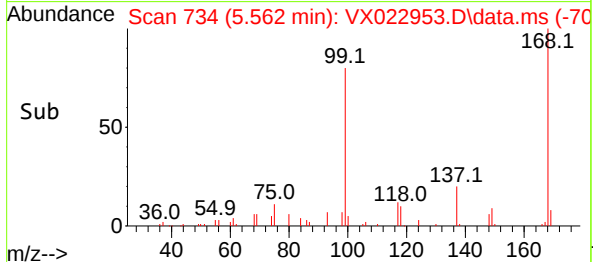
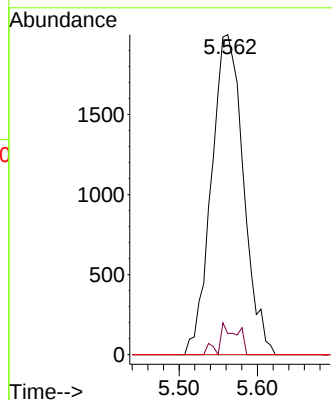
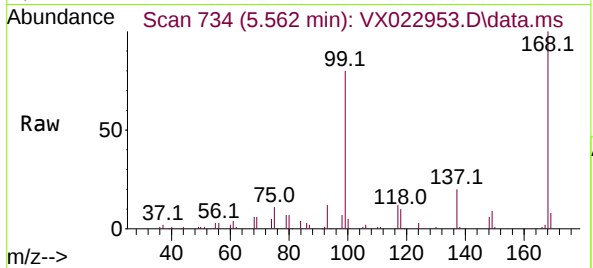




#36  
1,1-Dichloropropene  
Concen: 4.91 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

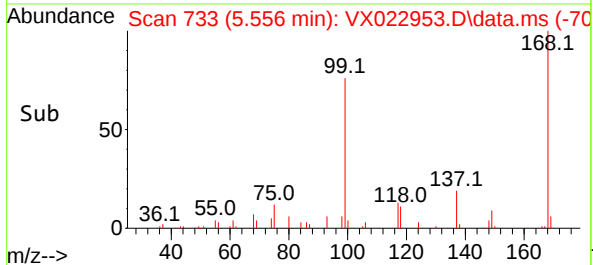
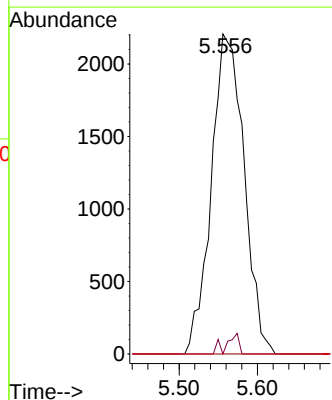
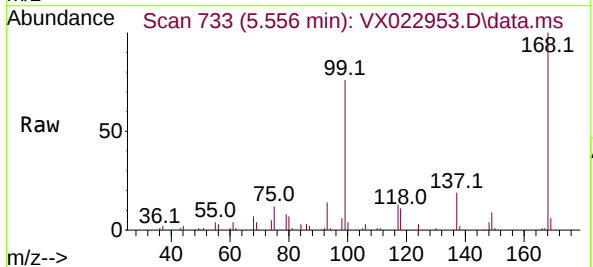
Instrument :  
MSVOA\_X  
ClientSampleId :

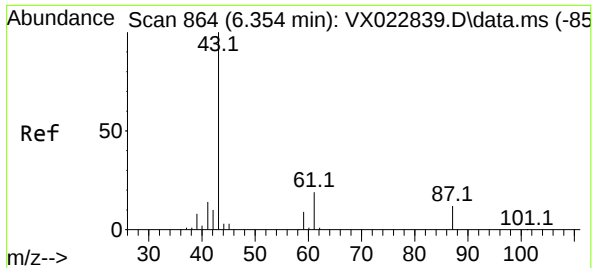
Tgt Ion: 75 Resp: 5686  
Ion Ratio Lower Upper  
75 100  
110 5.6 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.60 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 117 Resp: 6412  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.2 114.2#  
121 0.0 24.8 37.2#

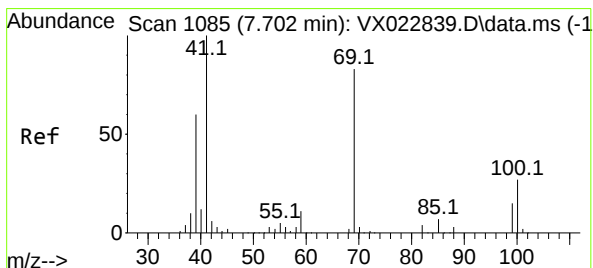
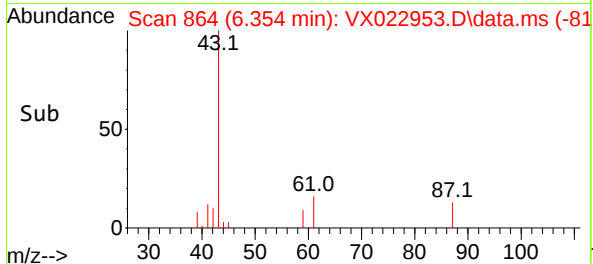
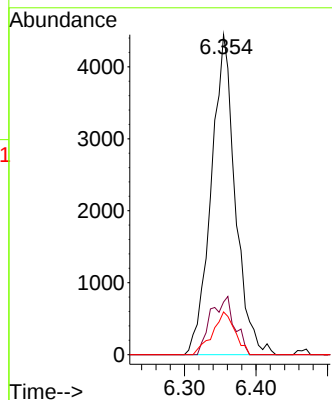
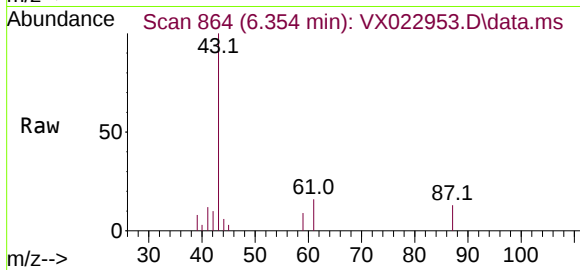




#43  
Isopropyl Acetate  
Concen: 4.82 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

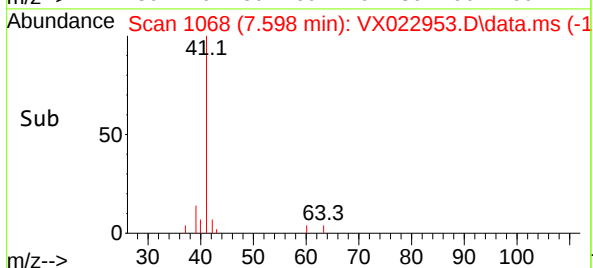
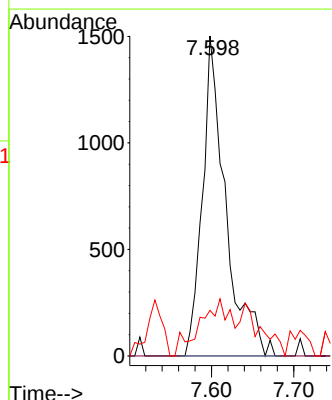
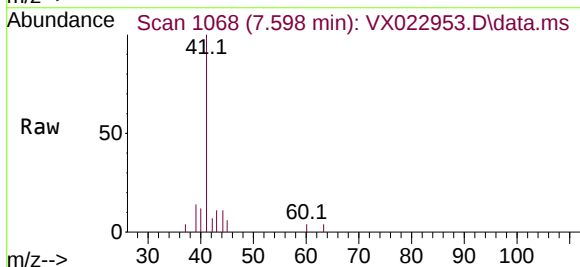
Instrument :  
MSVOA\_X  
ClientSampled :

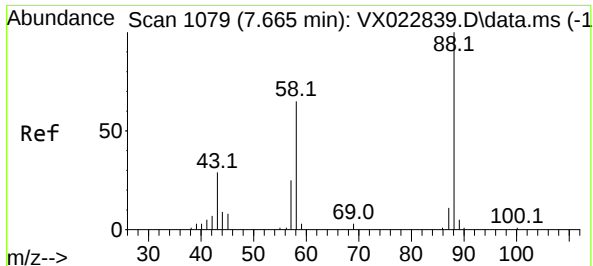
Tgt Ion: 43 Resp: 10393  
Ion Ratio Lower Upper  
43 100  
61 18.0 18.2 27.4#  
87 12.5 12.5 18.7#



#48  
Methyl methacrylate  
Concen: 2.97 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.104 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 41 Resp: 2962  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#

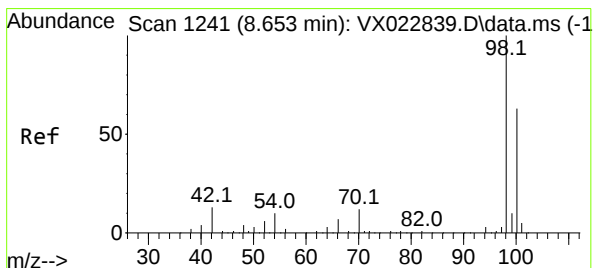
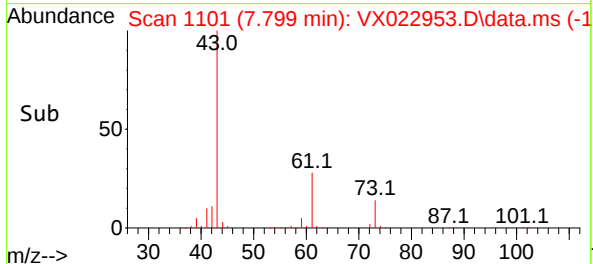
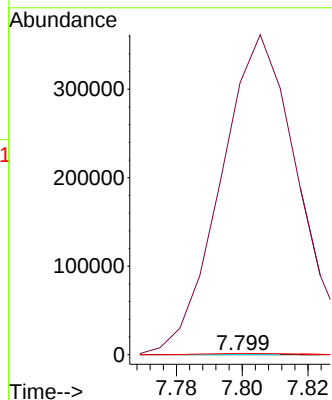
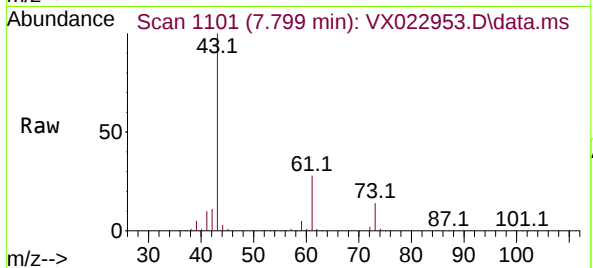




#49  
1,4-Dioxane  
Concen: 1.91 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

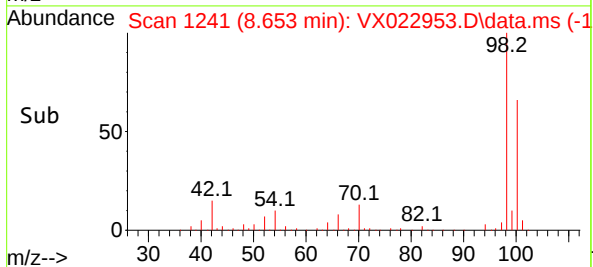
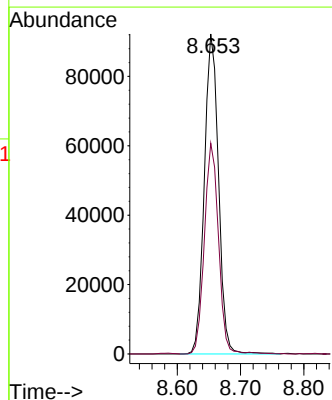
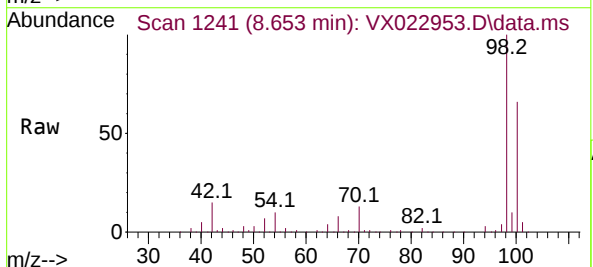
Instrument :  
MSVOA\_X  
ClientSampled :

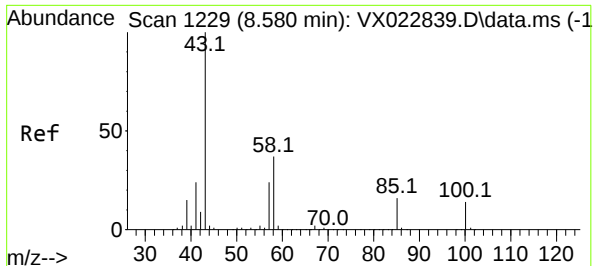
Tgt Ion: 88 Resp: 41  
Ion Ratio Lower Upper  
88 100  
43 1467646.3 23.2 34.8#  
58 6475.6 55.0 82.4#



#50  
Toluene-d8  
Concen: 53.16 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 98 Resp: 144263  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.9 77.9

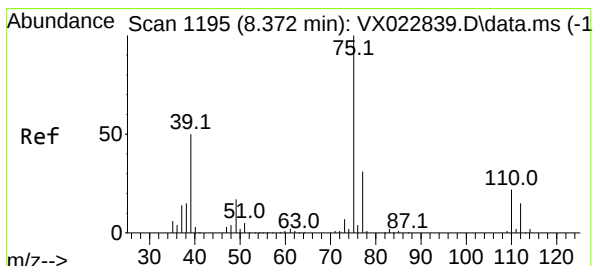
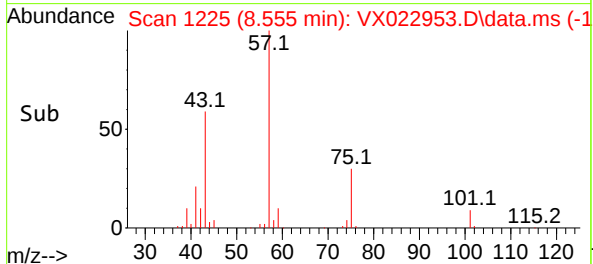
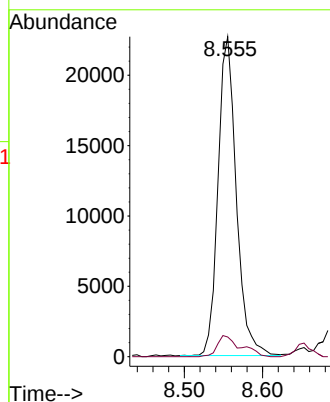
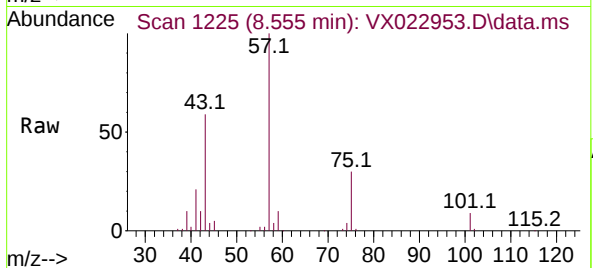




#51  
4-Methyl-2-Pentanone  
Concen: 27.47 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

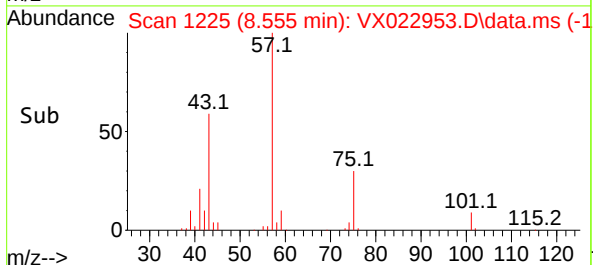
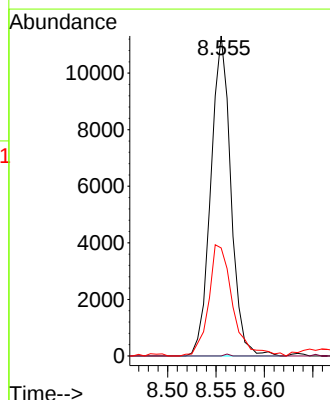
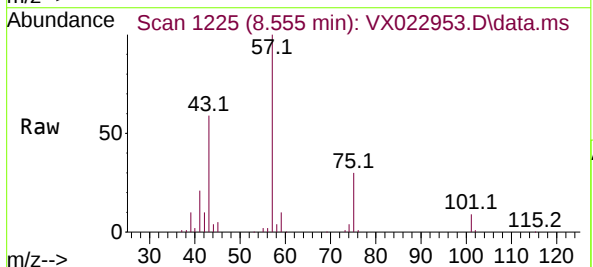
Instrument :  
MSVOA\_X  
ClientSampled :

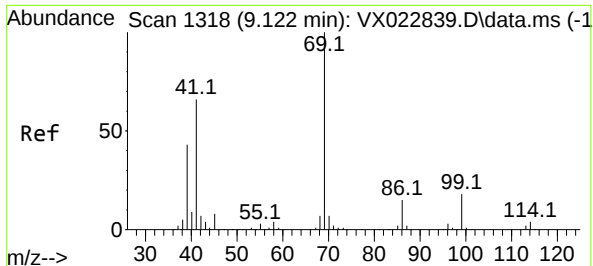
Tgt Ion: 43 Resp: 36874  
Ion Ratio Lower Upper  
43 100  
58 8.4 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 13.14 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 75 Resp: 16310  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#  
39 33.8 35.1 52.7#





#56

Ethyl methacrylate

Concen: 2.62 ug/l

RT: 9.006 min Scan# 1299

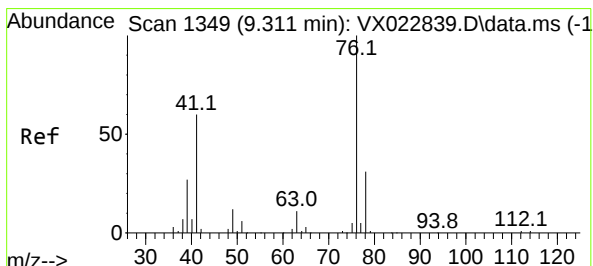
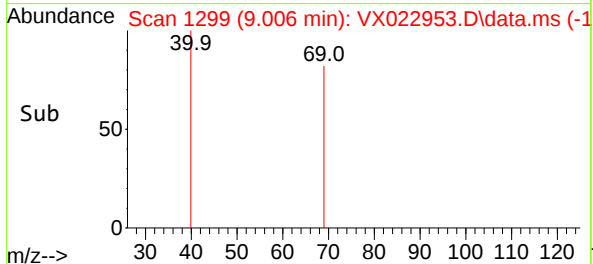
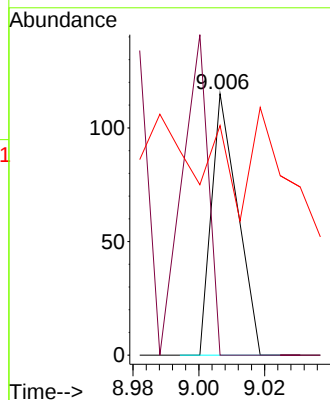
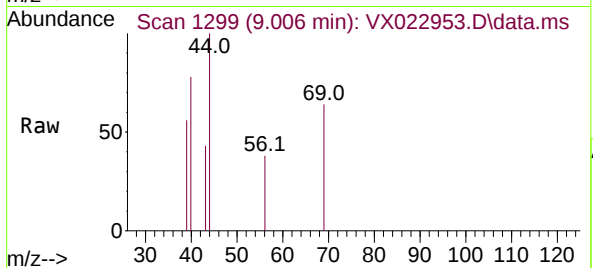
Delta R.T. -0.116 min

Lab File: VX022953.D

Acq: 26 Jun 2021 04:12

Tgt Ion: 69 Resp: 63

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 0.0   | 46.8  | 70.2# |
| 39  | 0.0   | 24.7  | 37.1# |



#57

1,3-Dichloropropane

Concen: 6.98 ug/l

RT: 9.488 min Scan# 1378

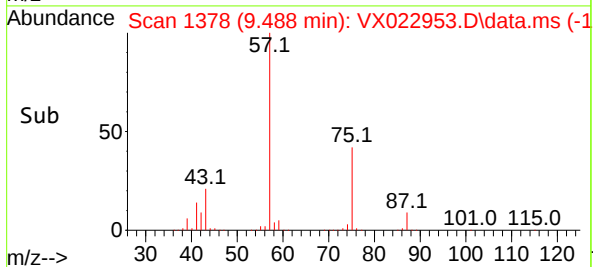
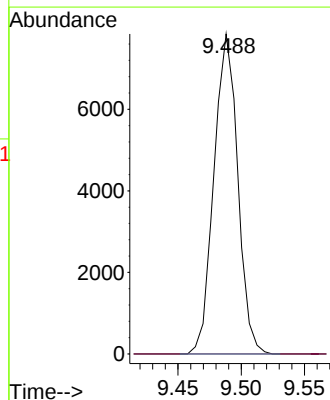
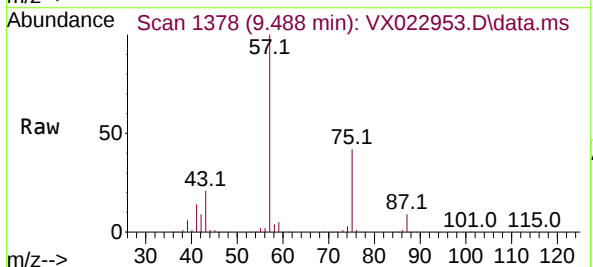
Delta R.T. 0.177 min

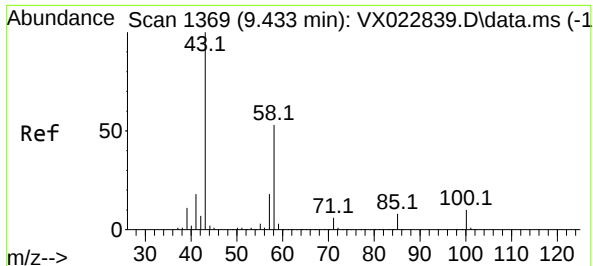
Lab File: VX022953.D

Acq: 26 Jun 2021 04:12

Tgt Ion: 76 Resp: 10270

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 0.0   | 26.2  | 39.2# |

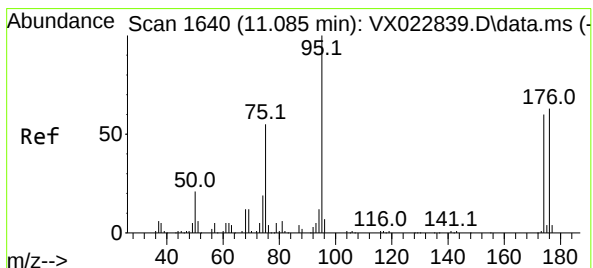
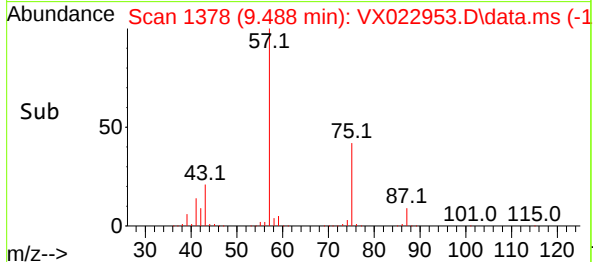
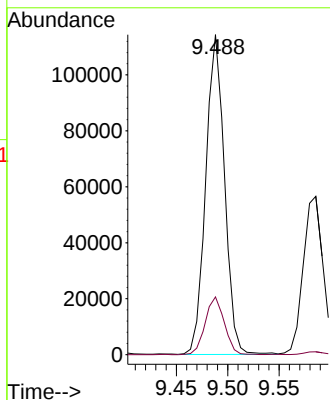
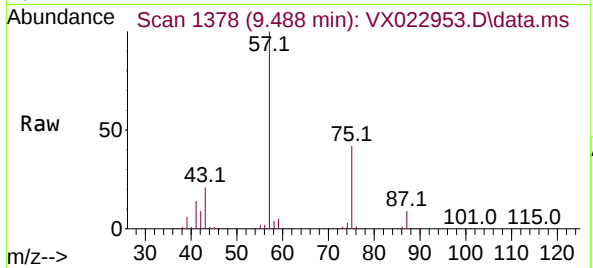




#59  
2-Hexanone  
Concen: 142.70 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

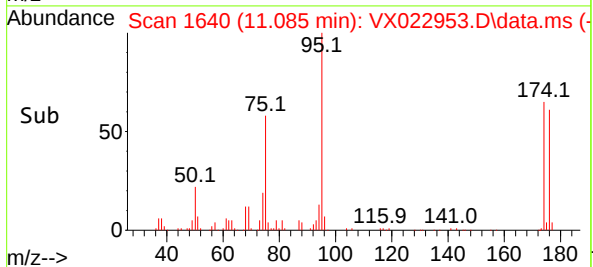
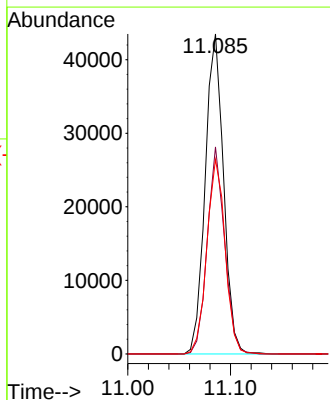
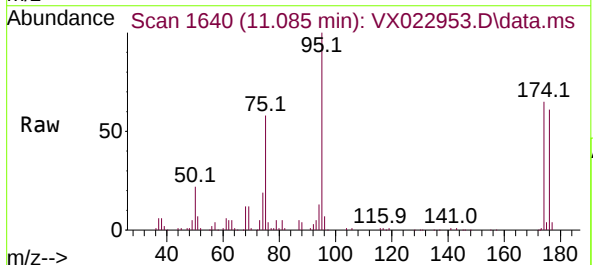
Instrument :  
MSVOA\_X  
ClientSampled :

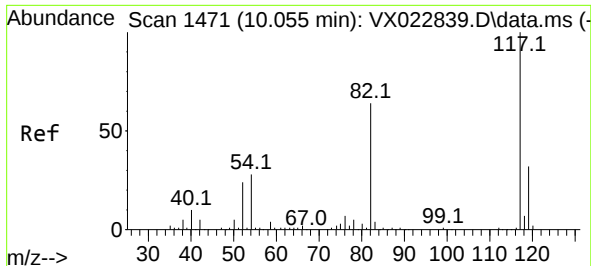
Tgt Ion: 43 Resp: 145319  
Ion Ratio Lower Upper  
43 100  
58 18.4 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 53.37 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 95 Resp: 54053  
Ion Ratio Lower Upper  
95 100  
174 61.2 0.0 154.6  
176 60.6 0.0 155.8

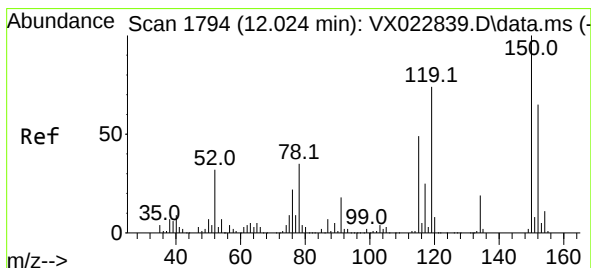
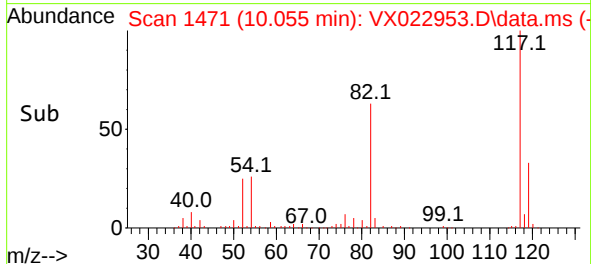
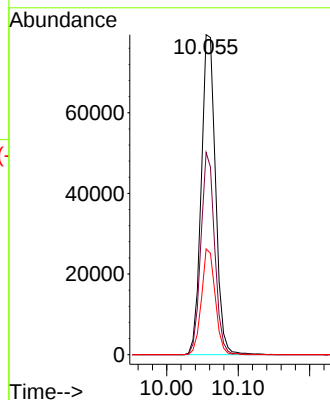
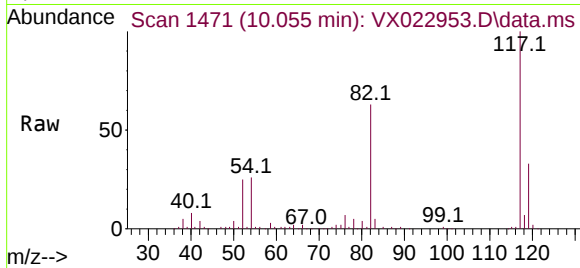




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

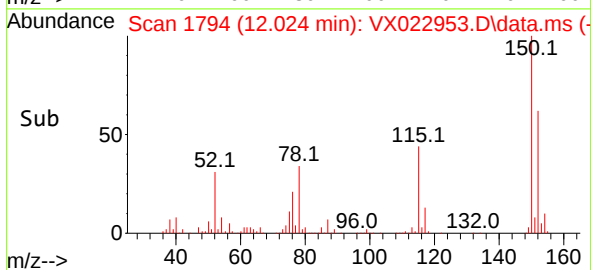
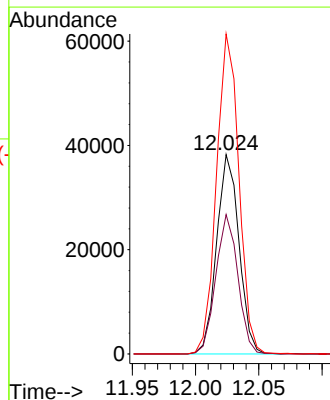
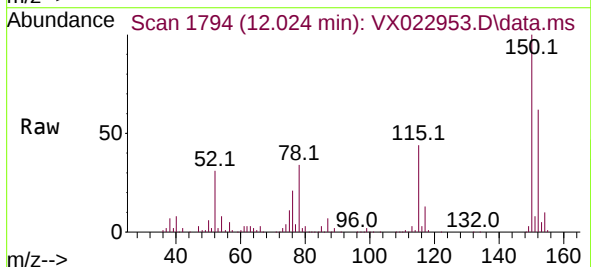
Instrument :  
MSVOA\_X  
ClientSampled :

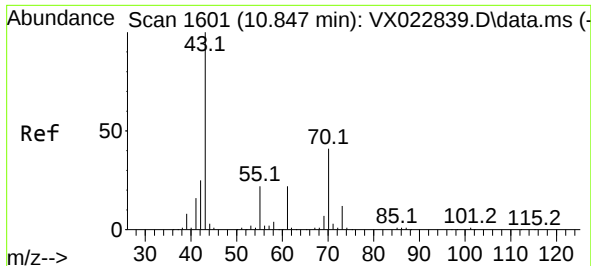
Tgt Ion:117 Resp: 109815  
Ion Ratio Lower Upper  
117 100  
82 63.2 47.4 71.2  
119 33.1 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion:152 Resp: 46829  
Ion Ratio Lower Upper  
152 100  
115 69.2 41.1 123.3  
150 161.2 0.0 349.0

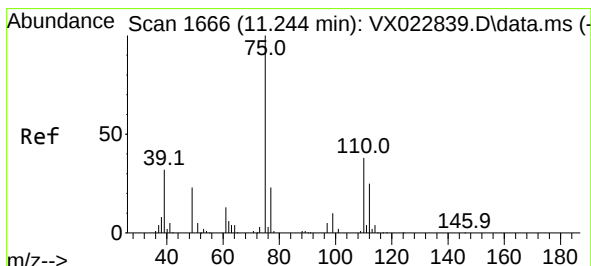
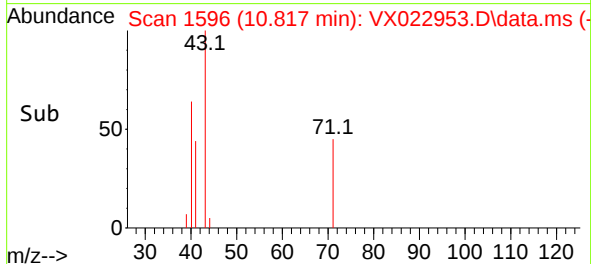
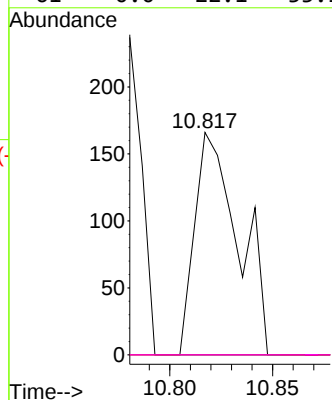
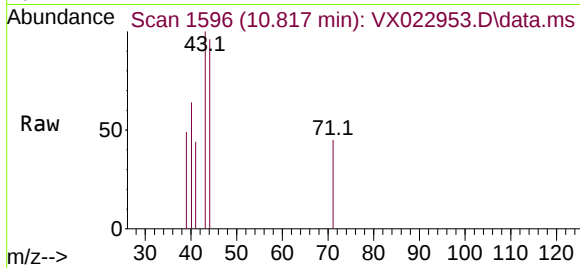




#74  
N-amy1 acetate  
Concen: 2.16 ug/l  
RT: 10.817 min Scan# 1596  
Delta R.T. -0.030 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

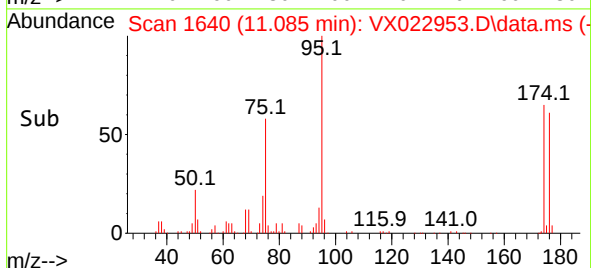
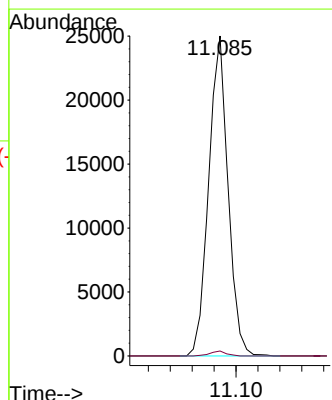
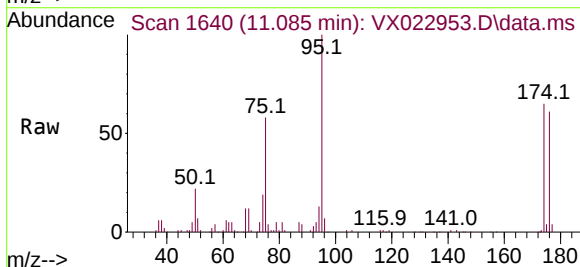
Instrument :  
MSVOA\_X  
ClientSampled :

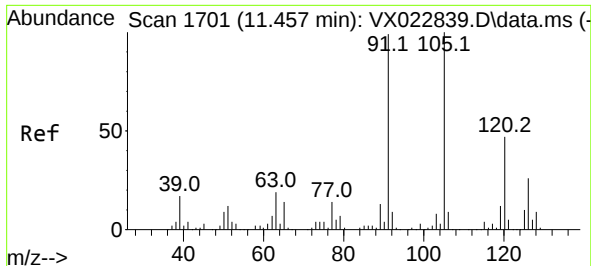
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 245   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 39.0  | 58.6# |
| 55       | 0.0   | 21.5  | 32.3# |
| 61       | 0.0   | 22.1  | 33.1# |



#76  
1,2,3-Trichloropropane  
Concen: 24.74 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 30597 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 1.3   | 19.1  | 57.5# |

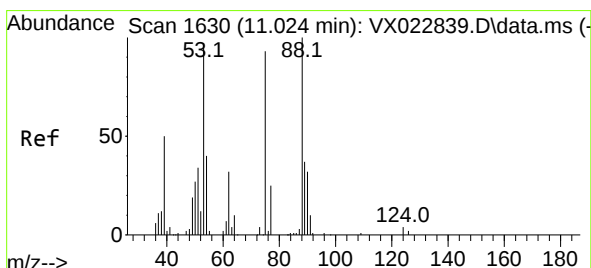
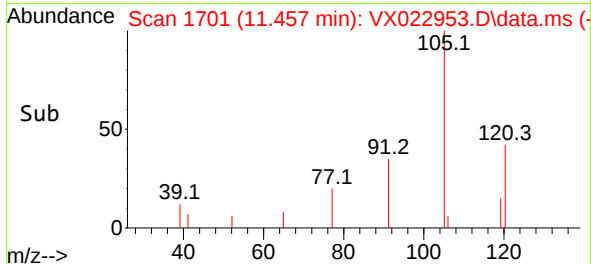
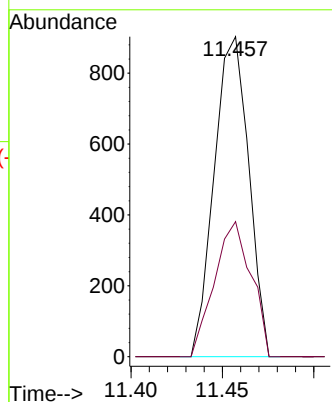
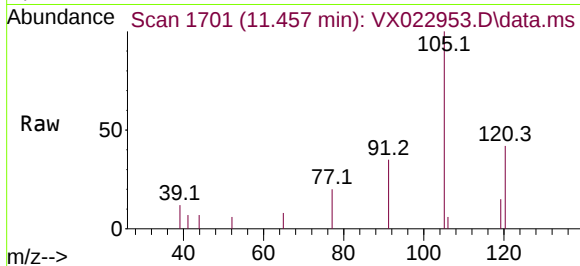




#80  
1,3,5-Trimethylbenzene  
Concen: 0.36 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

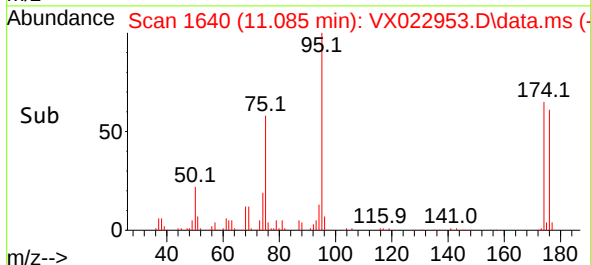
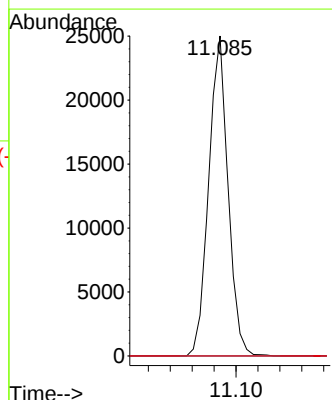
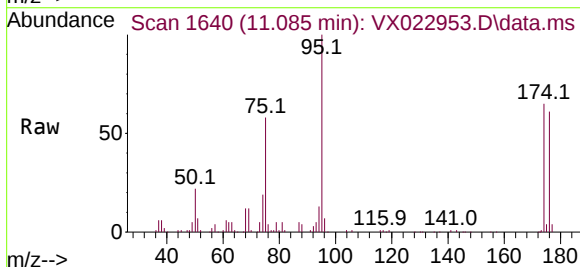
Instrument :  
MSVOA\_X  
ClientSampleId :

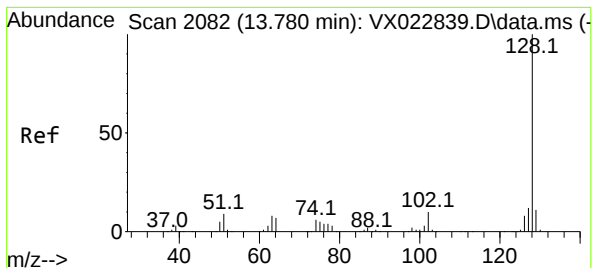
Tgt Ion:105 Resp: 1187  
Ion Ratio Lower Upper  
105 100  
120 45.0 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.62 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Tgt Ion: 75 Resp: 30597  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 1.97 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX022953.D  
Acq: 26 Jun 2021 04:12

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:128 Resp: 183  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

