

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
 Data File : VX022396.D  
 Acq On : 04 Jun 2021 03:22  
 Operator : JC/MD  
 Sample : PB36780ZHE#11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 04 05:41:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

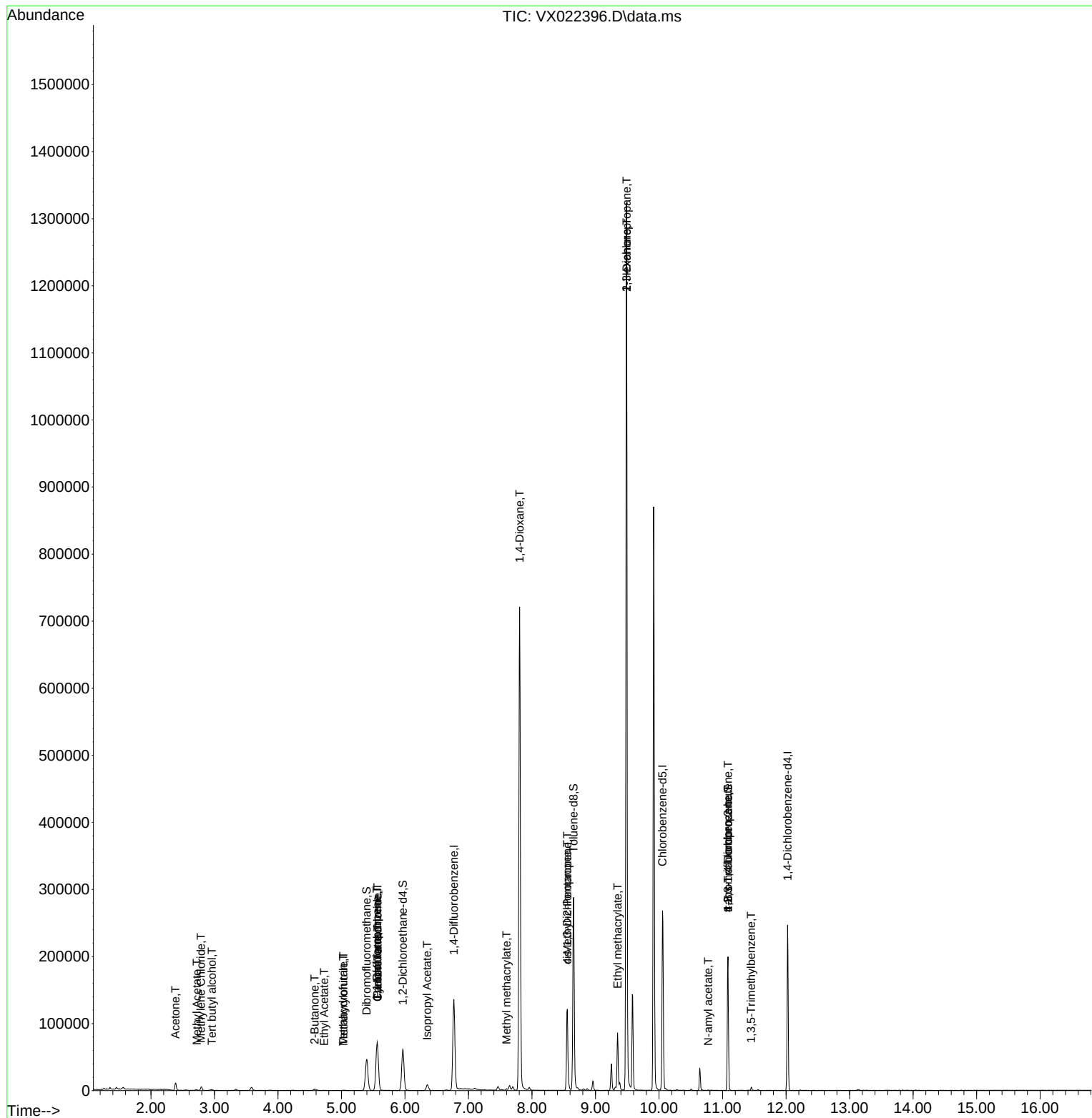
| Compound                      | R.T.           | QIon | Response            | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|-------|----------|
| -----                         |                |      |                     |        |       |          |
| Internal Standards            |                |      |                     |        |       |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 60913               | 50.00  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 133481              | 50.00  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 115564              | 50.00  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 44017               | 50.00  | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 55478               | 59.04  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 118.08%# |        |       |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 40105               | 47.38  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 94.76%   |        |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 161295              | 49.47  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 98.94%   |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 54179               | 44.95  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 89.90%   |        |       |          |
| Target Compounds              |                |      |                     |        |       |          |
|                               |                |      |                     |        |       | Qvalue   |
| 11) Tert butyl alcohol        | 2.959          | 59   | 1099                | 5.11   | ug/l  | # 73     |
| 16) Acetone                   | 2.386          | 43   | 11989               | 29.30  | ug/l  | 94       |
| 18) Methyl Acetate            | 2.721          | 43   | 1755                | 1.61   | ug/l  | # 79     |
| 20) Methylene Chloride        | 2.788          | 84   | 2348                | 2.58   | ug/l  | # 84     |
| 25) 2-Butanone                | 4.574          | 43   | 3110                | 4.70   | ug/l  | # 84     |
| 29) Tetrahydrofuran           | 5.025          | 42   | 116                 | 0.29   | ug/l  | # 27     |
| 31) Cyclohexane               | 5.568          | 56   | 1675                | 1.42   | ug/l  | # 31     |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 6018                | 4.88   | ug/l  | # 47     |
| 37) Ethyl Acetate             | 4.727          | 43   | 356                 | 0.24   | ug/l  | # 64     |
| 38) Carbon Tetrachloride      | 5.568          | 117  | 6860                | 5.68   | ug/l  | # 15     |
| 41) Methacrylonitrile         | 5.031          | 41   | 196                 | 0.24   | ug/l  | # 33     |
| 43) Isopropyl Acetate         | 6.348          | 43   | 11986               | 4.84   | ug/l  | 92       |
| 48) Methyl methacrylate       | 7.598          | 41   | 2906                | 2.55   | ug/l  | # 10     |
| 49) 1,4-Dioxane               | 7.805          | 88   | 45                  | 2.03   | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 43381               | 29.26  | ug/l  | # 47     |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 19916               | 12.20  | ug/l  | # 65     |
| 56) Ethyl methacrylate        | 9.348          | 69   | 321                 | 0.20   | ug/l  | # 1      |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 11552               | 6.93   | ug/l  | # 42     |
| 59) 2-Hexanone                | 9.488          | 43   | 153945              | 138.07 | ug/l  | # 44     |
| 74) N-amyl acetate            | 10.774         | 43   | 490                 | 0.28   | ug/l  | # 38     |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 28109               | 25.89  | ug/l  | # 38     |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 2309                | 0.75   | ug/l  | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 28109               | 61.33  | ug/l  | # 12     |
| -----                         |                |      |                     |        |       |          |

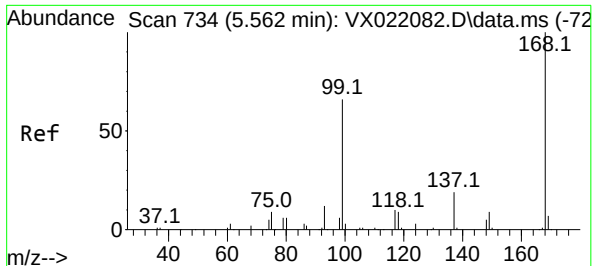
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
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Sample : PB36780ZHE#11  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

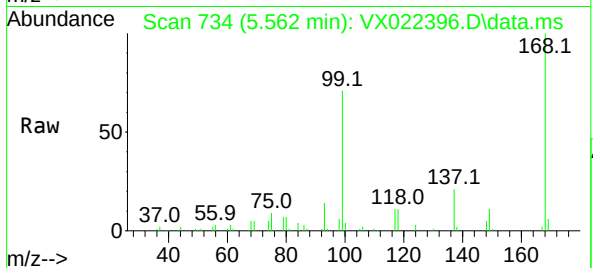
Quant Time: Jun 04 05:41:18 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration



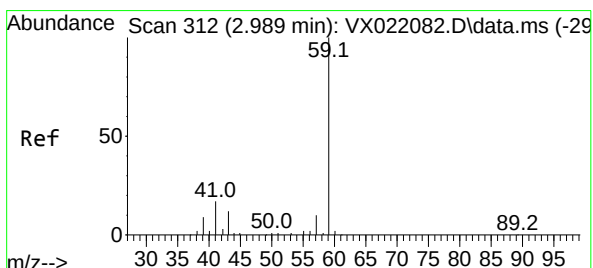
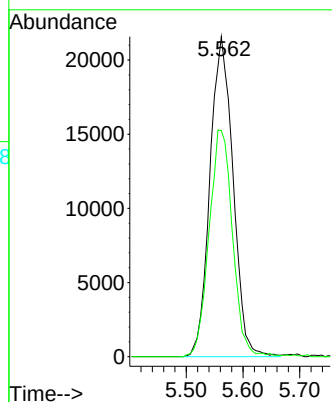
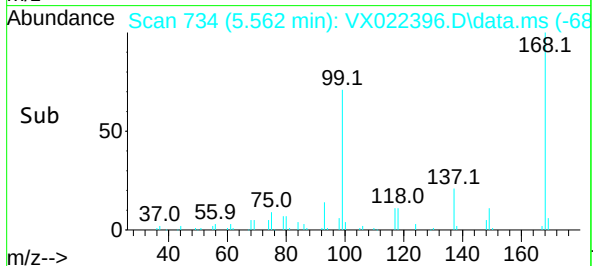


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

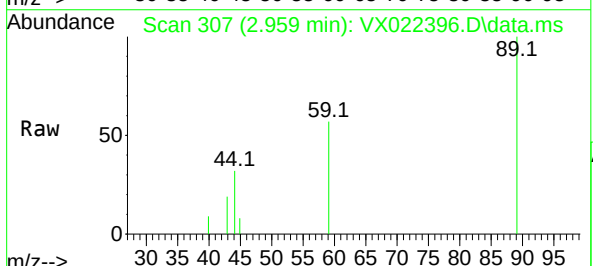
Instrument :  
MSVOA\_X  
ClientSampled :



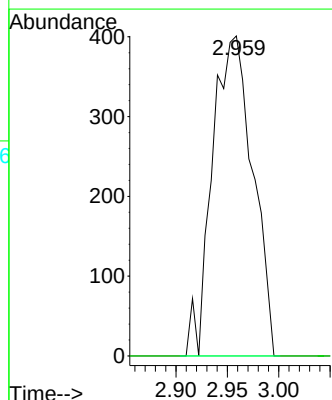
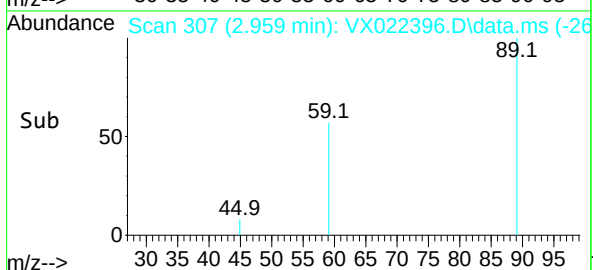
Tgt Ion:168 Resp: 60913  
Ion Ratio Lower Upper  
168 100  
99 70.7 45.8 68.6#

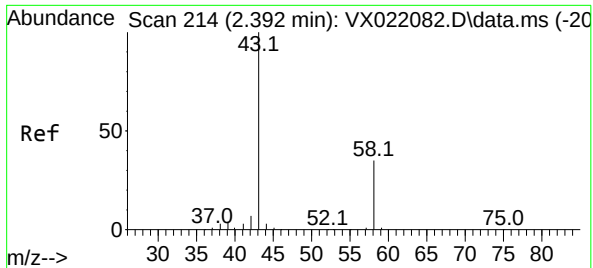


#11  
Tert butyl alcohol  
Concen: 5.11 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.030 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22



Tgt Ion: 59 Resp: 1099  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

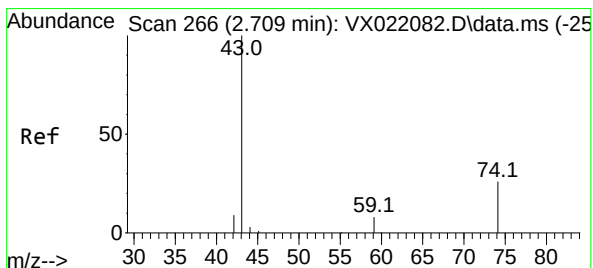
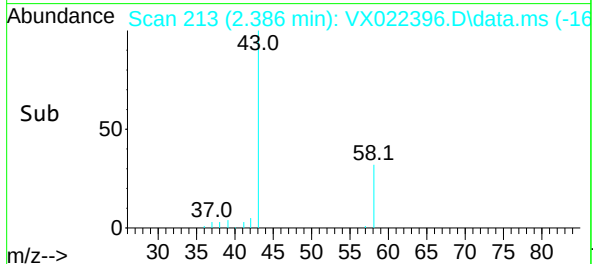
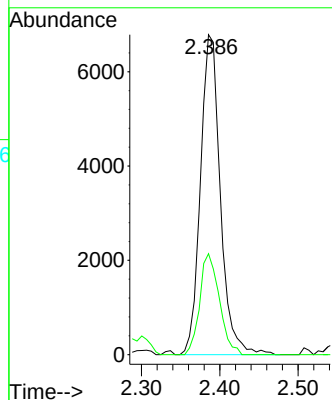
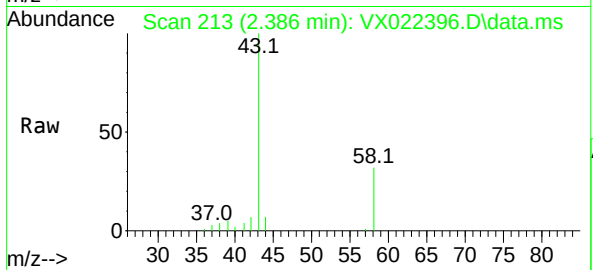




#16  
Acetone  
Concen: 29.30 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

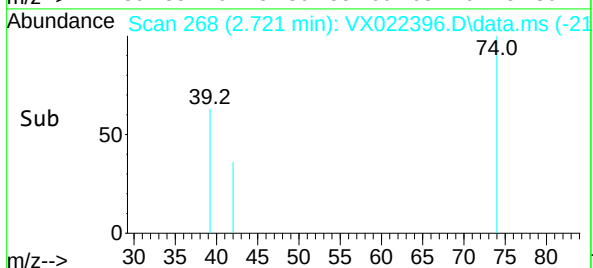
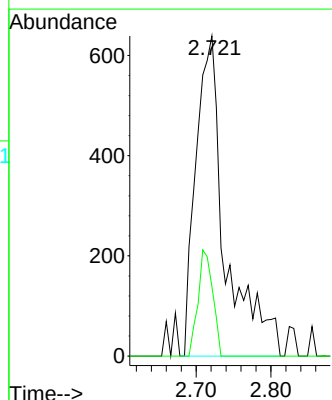
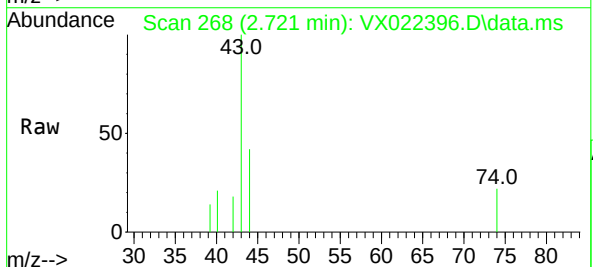
Instrument :  
MSVOA\_X  
ClientSampled :

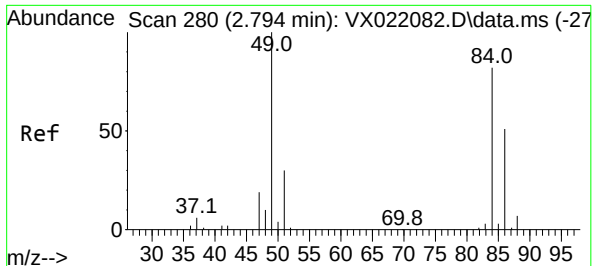
Tgt Ion: 43 Resp: 11989  
Ion Ratio Lower Upper  
43 100  
58 31.5 27.8 41.8



#18  
Methyl Acetate  
Concen: 1.61 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Tgt Ion: 43 Resp: 1755  
Ion Ratio Lower Upper  
43 100  
74 16.5 21.9 32.9#





#20

Methylene Chloride

Concen: 2.58 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.006 min

Lab File: VX022396.D

Acq: 04 Jun 2021 03:22

Tgt Ion: 84 Resp: 2348

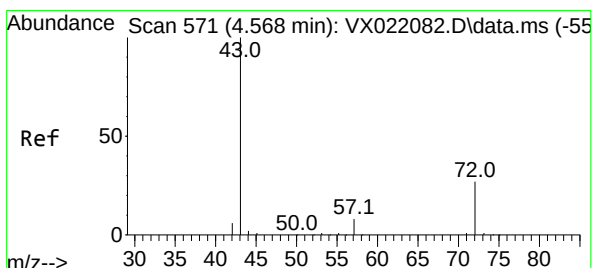
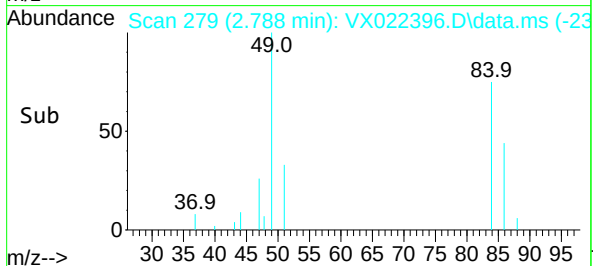
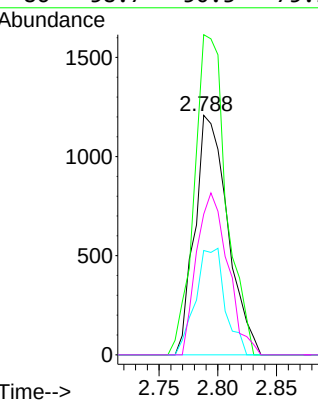
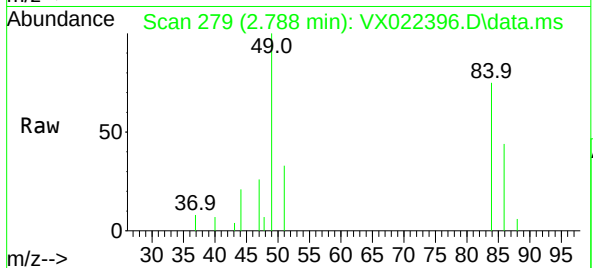
Ion Ratio Lower Upper

84 100

49 133.7 88.6 132.8#

51 43.5 27.0 40.6#

86 58.7 50.3 75.5



#25

2-Butanone

Concen: 4.70 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.006 min

Lab File: VX022396.D

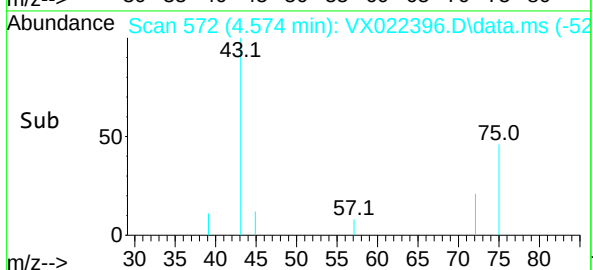
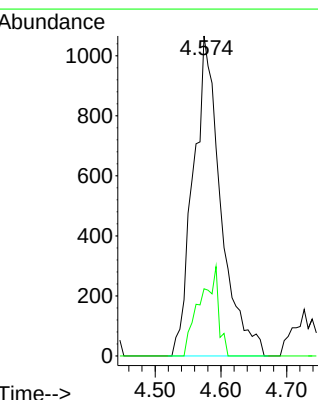
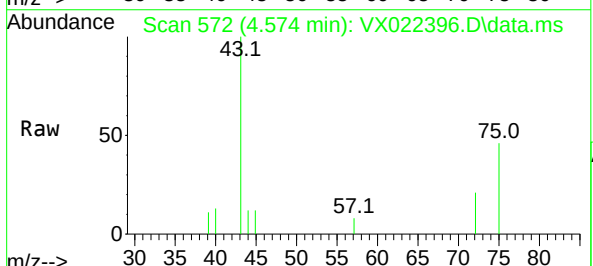
Acq: 04 Jun 2021 03:22

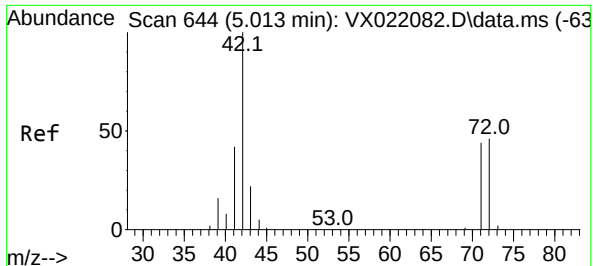
Tgt Ion: 43 Resp: 3110

Ion Ratio Lower Upper

43 100

72 21.0 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.025 min Scan# 646

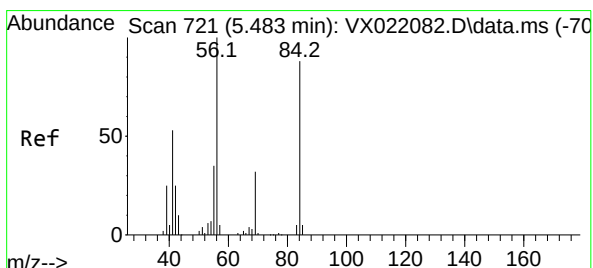
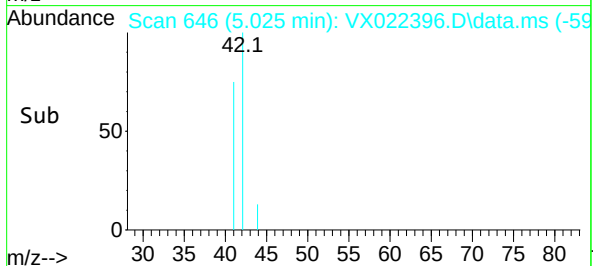
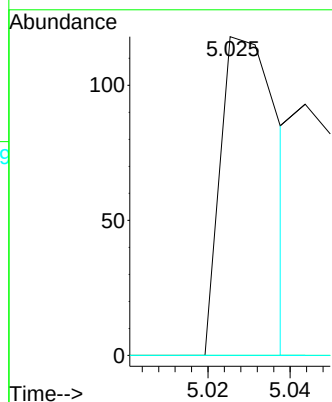
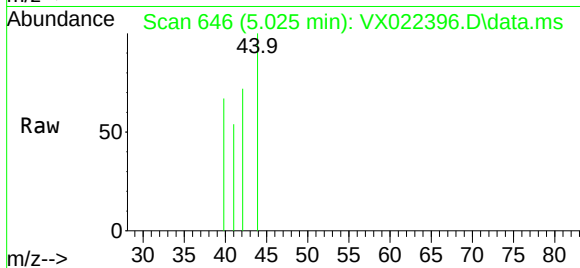
Delta R.T. 0.012 min

Lab File: VX022396.D

Acq: 04 Jun 2021 03:22

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 116   |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 0.0      | 41.7 62.5#  |
| 71 0.0      | 38.4 57.6#  |

Instrument :  
MSVOA\_X  
ClientSampled :



#31

Cyclohexane

Concen: 1.42 ug/l

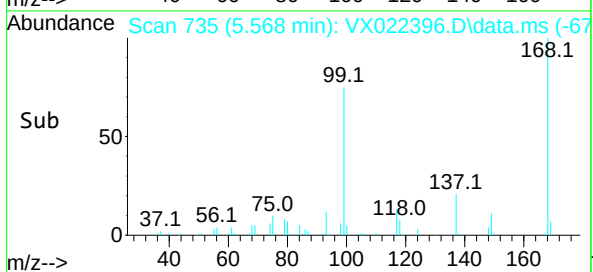
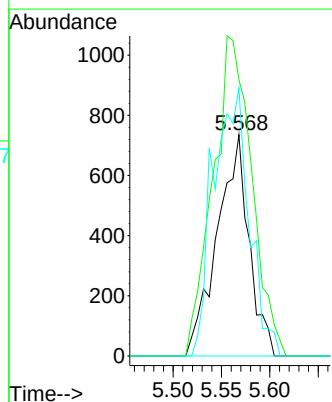
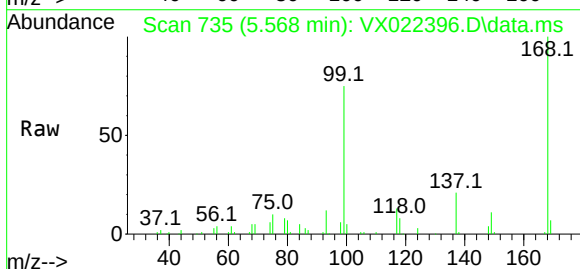
RT: 5.568 min Scan# 735

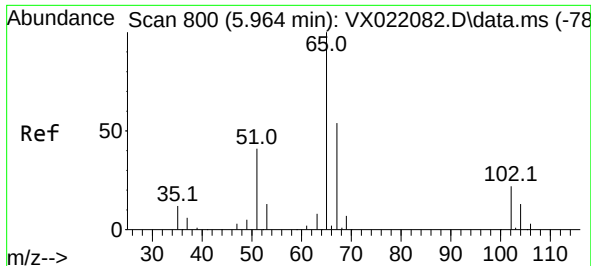
Delta R.T. 0.085 min

Lab File: VX022396.D

Acq: 04 Jun 2021 03:22

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 1675  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 125.0    | 25.3 37.9#  |
| 84 121.2    | 71.4 107.0# |





#33

1,2-Dichloroethane-d4

Concen: 59.04 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX022396.D

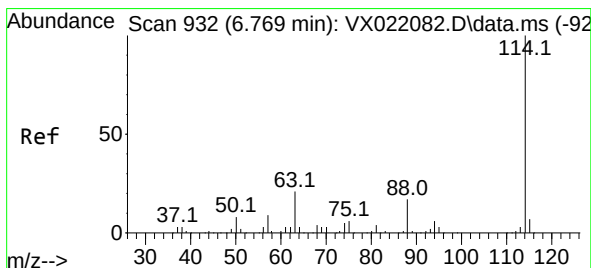
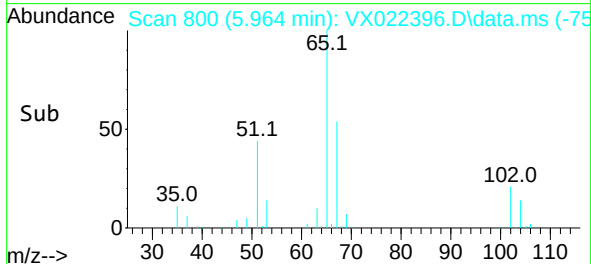
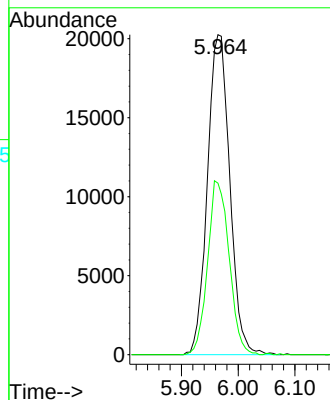
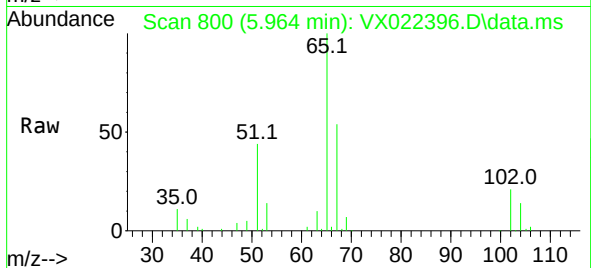
Acq: 04 Jun 2021 03:22

Tgt Ion: 65 Resp: 55478

Ion Ratio Lower Upper

65 100

67 52.3 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: VX022396.D

Acq: 04 Jun 2021 03:22

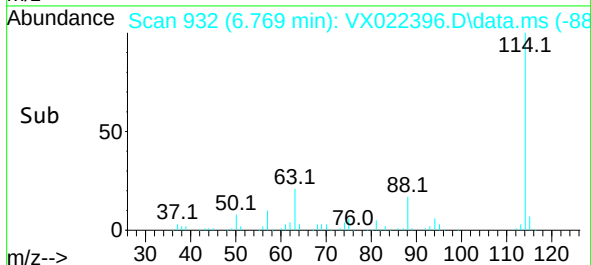
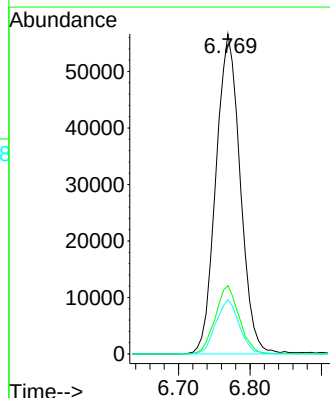
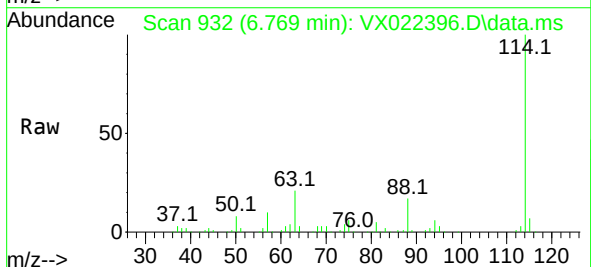
Tgt Ion: 114 Resp: 133481

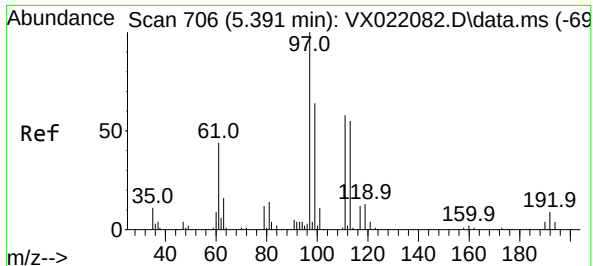
Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.8

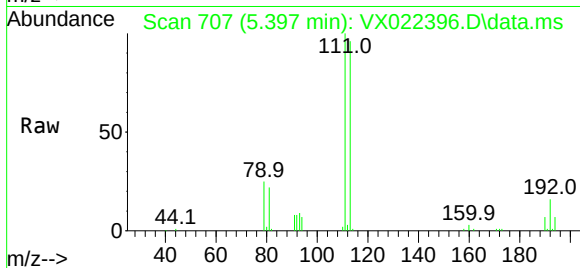
88 16.9 0.0 32.8



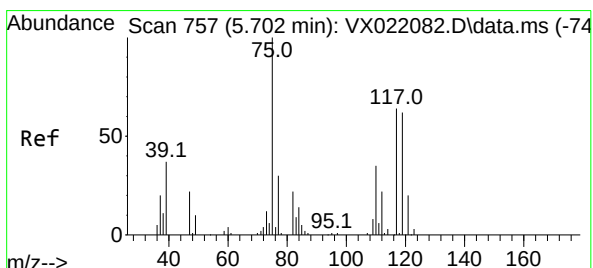
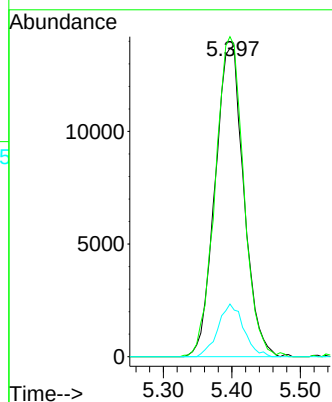
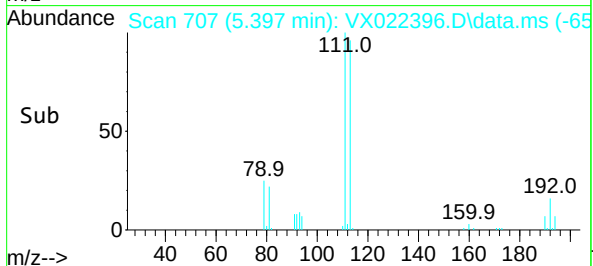


#35  
Dibromofluoromethane  
Concen: 47.38 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

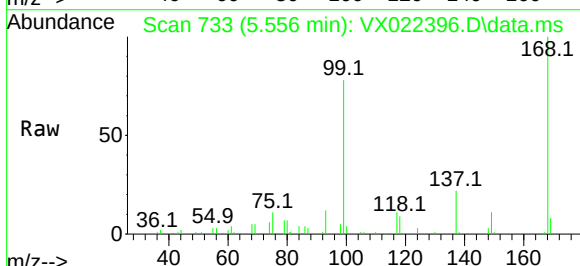
Instrument :  
MSVOA\_X  
ClientSampled :



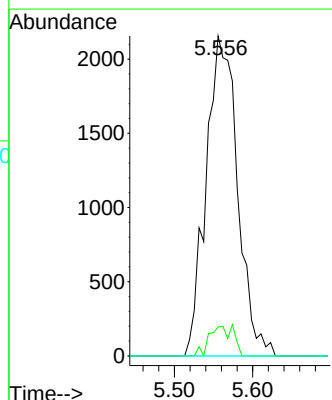
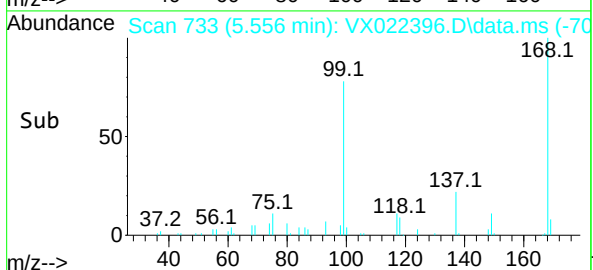
Tgt Ion:113 Resp: 40105  
Ion Ratio Lower Upper  
113 100  
111 102.1 81.9 122.9  
192 15.2 16.7 25.1#



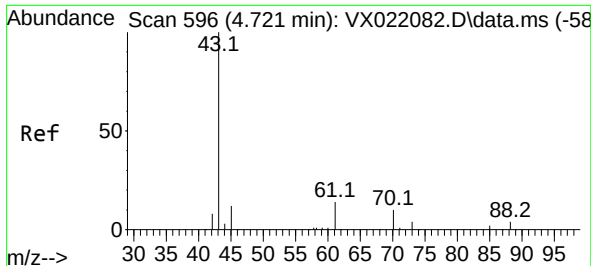
#36  
1,1-Dichloropropene  
Concen: 4.88 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22



Tgt Ion: 75 Resp: 6018  
Ion Ratio Lower Upper  
75 100  
110 7.2 18.1 54.4#  
77 0.0 25.3 37.9#







#37

Ethyl Acetate

Concen: 0.24 ug/l

RT: 4.727 min Scan# 597

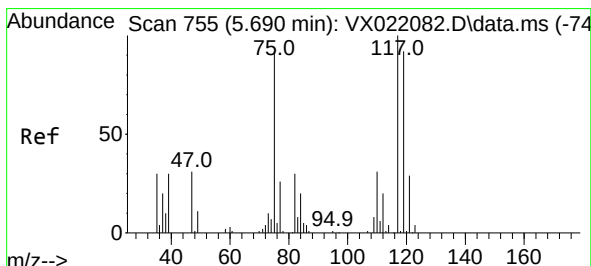
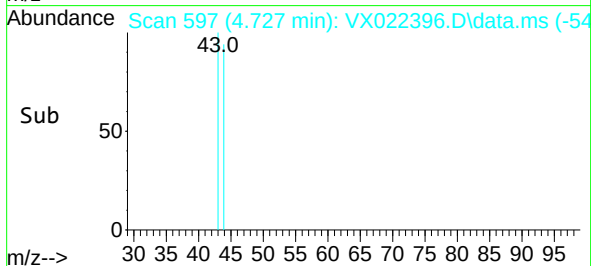
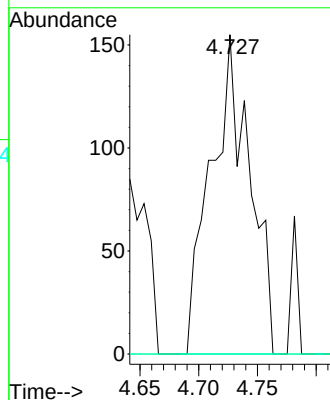
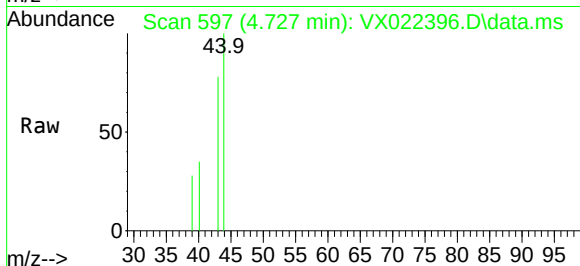
Delta R.T. 0.006 min

Lab File: VX022396.D

Acq: 04 Jun 2021 03:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 356   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.8  | 19.2# |
| 70       | 0.0   | 10.5  | 15.7# |

Instrument :  
MSVOA\_X  
ClientSampled :



#38

Carbon Tetrachloride

Concen: 5.68 ug/l

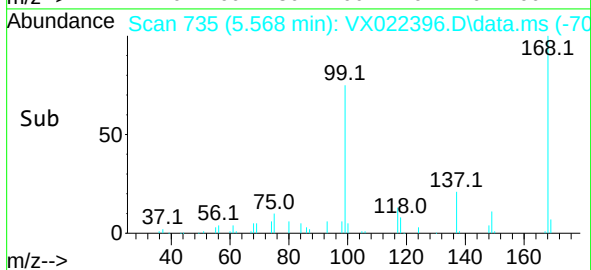
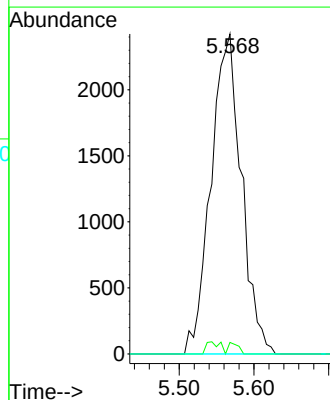
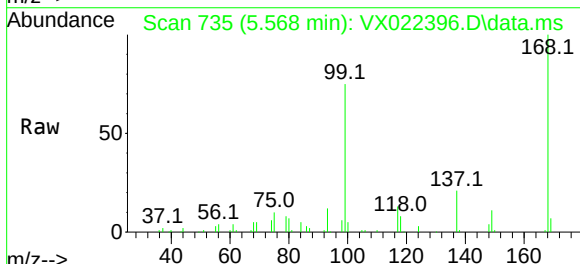
RT: 5.568 min Scan# 735

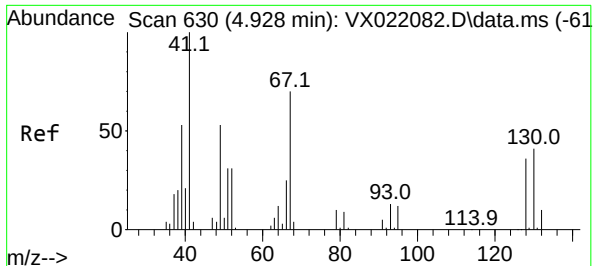
Delta R.T. -0.122 min

Lab File: VX022396.D

Acq: 04 Jun 2021 03:22

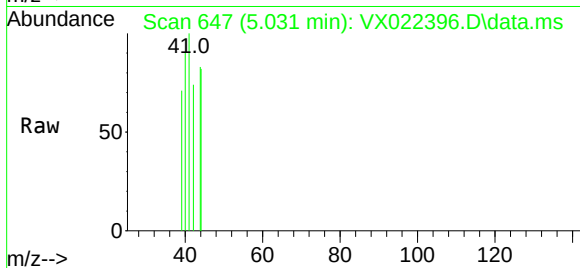
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 6860   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 3.6   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |



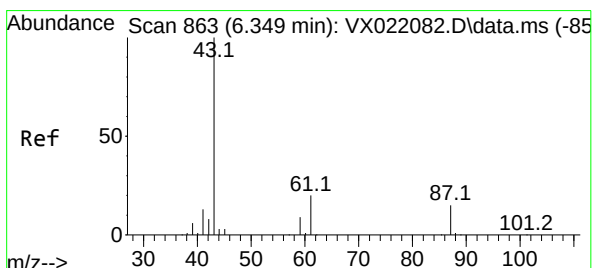
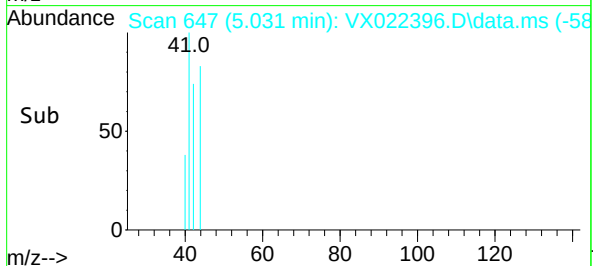
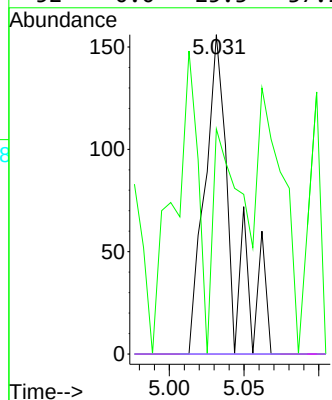


#41  
Methacrylonitrile  
Concen: 0.24 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.103 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Instrument :  
MSVOA\_X  
ClientSampled :

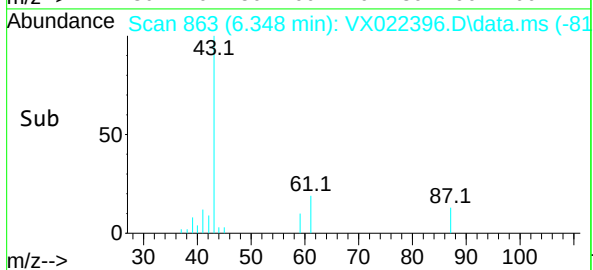
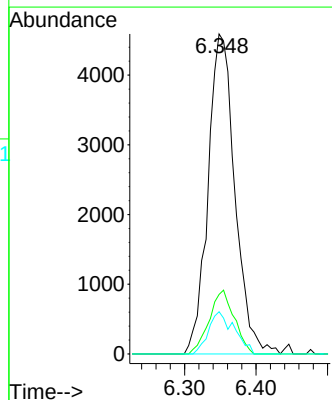
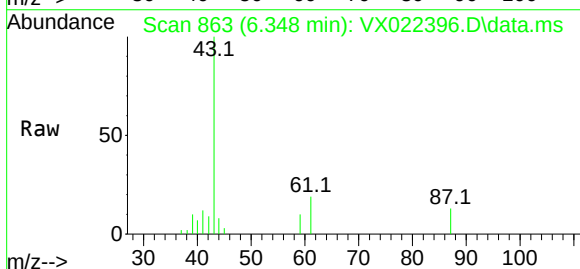


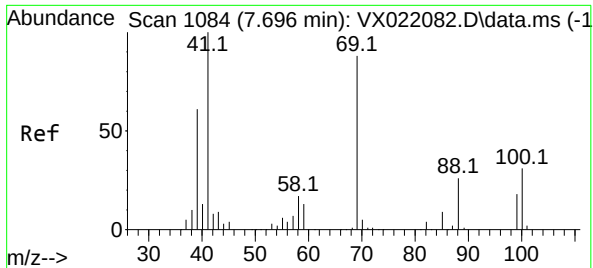
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 196   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 77.6  | 42.5  | 63.7# |
| 67       | 0.0   | 65.0  | 97.6# |
| 52       | 0.0   | 25.3  | 37.9# |



#43  
Isopropyl Acetate  
Concen: 4.84 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. -0.001 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11986 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 18.6  | 18.2  | 27.4  |
| 87       | 12.6  | 12.5  | 18.7  |

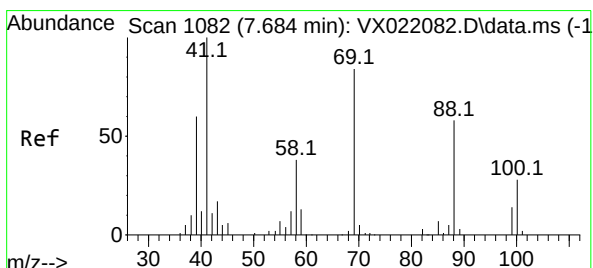
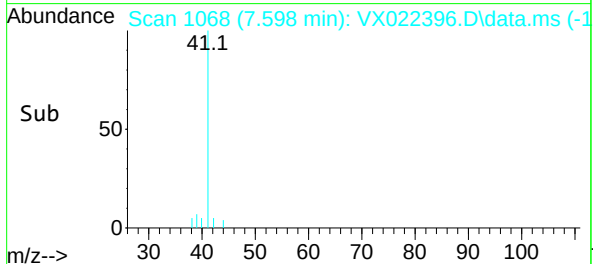
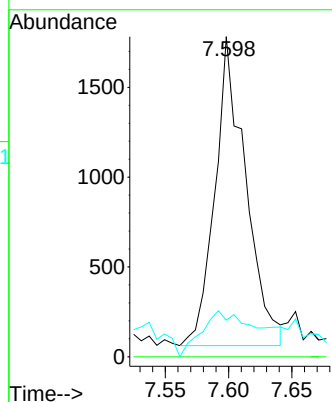
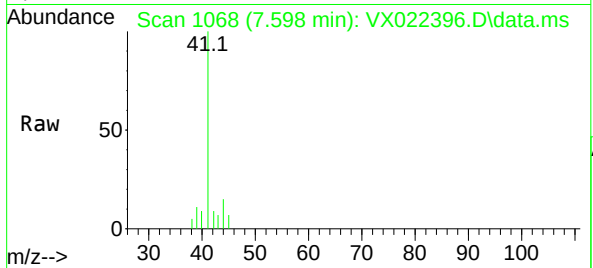




#48  
Methyl methacrylate  
Concen: 2.55 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.098 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

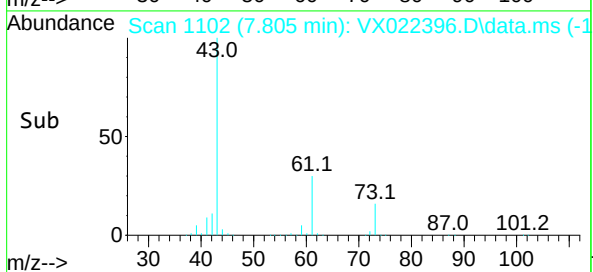
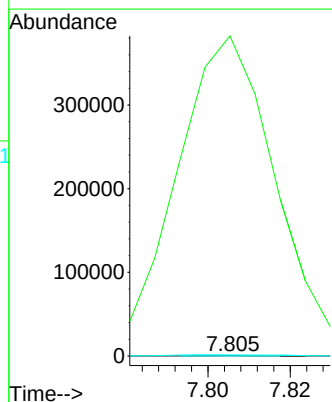
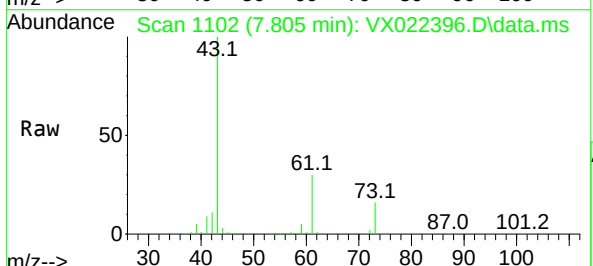
Instrument :  
MSVOA\_X  
ClientSampled :

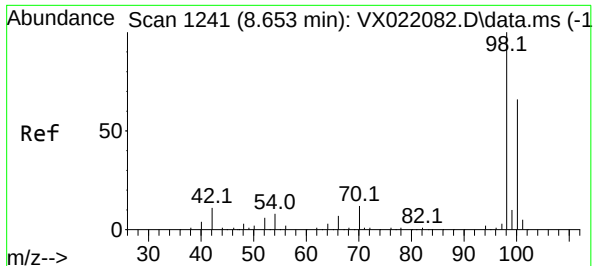
Tgt Ion: 41 Resp: 2906  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 2.03 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.121 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Tgt Ion: 88 Resp: 45  
Ion Ratio Lower Upper  
88 100  
43 1459791.1 23.2 34.8#  
58 6220.0 55.0 82.4#

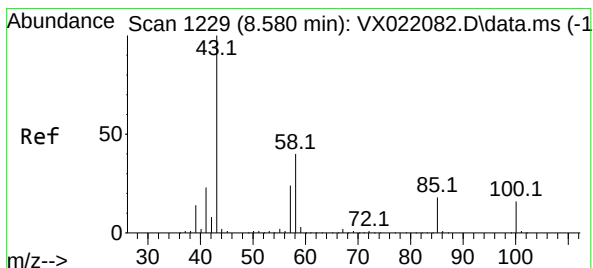
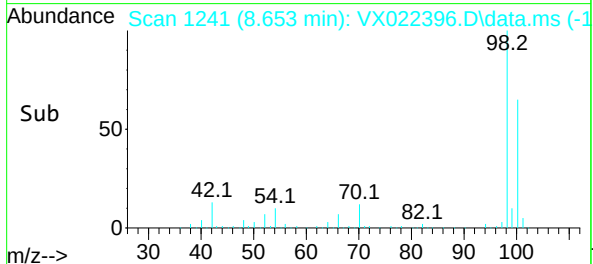
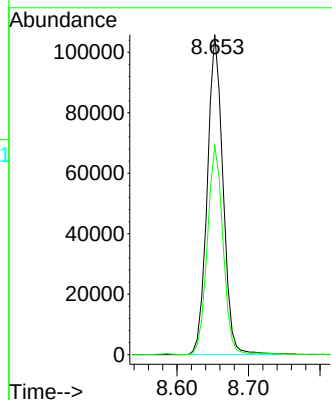
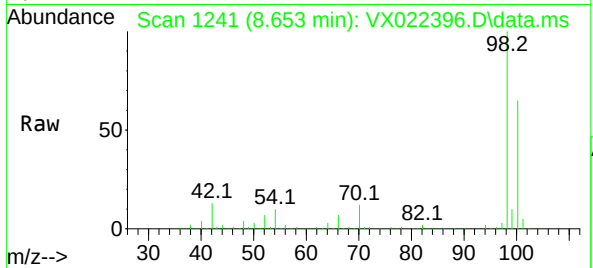




#50  
Toluene-d8  
Concen: 49.47 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

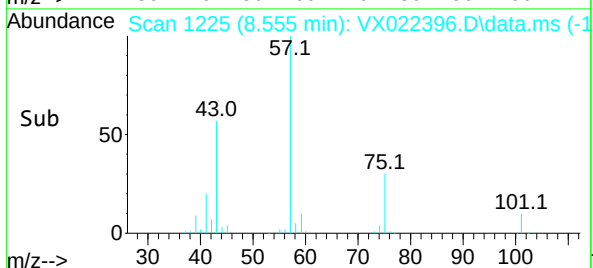
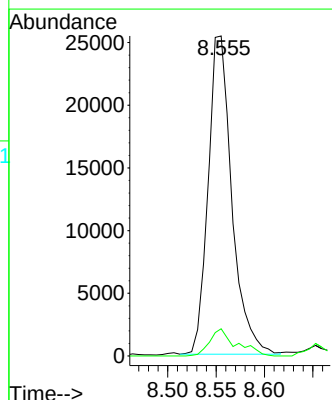
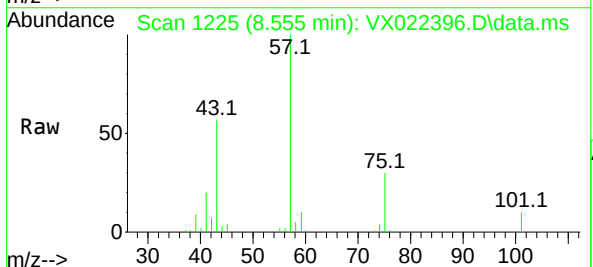
Instrument :  
MSVOA\_X  
ClientSampled :

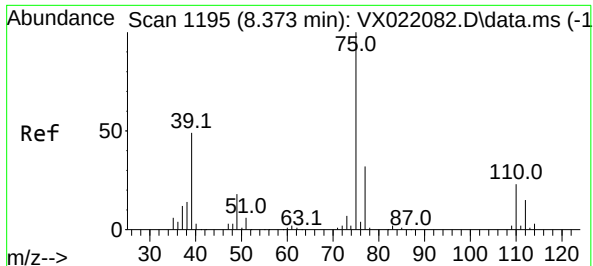
Tgt Ion: 98 Resp: 161295  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 29.26 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Tgt Ion: 43 Resp: 43381  
Ion Ratio Lower Upper  
43 100  
58 9.5 35.4 53.0#

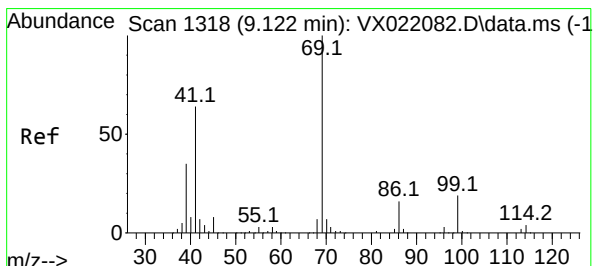
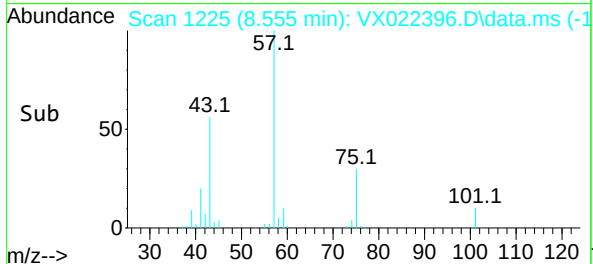
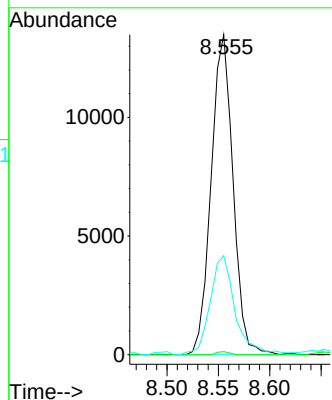
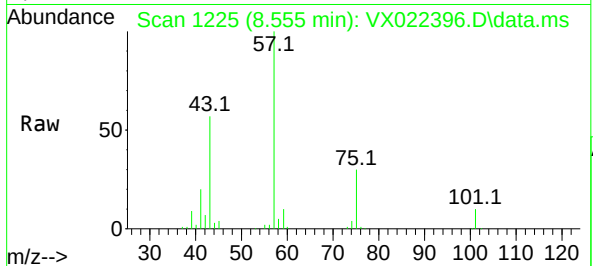




#54  
 cis-1,3-Dichloropropene  
 Concen: 12.20 ug/l  
 RT: 8.555 min Scan# 1225  
 Delta R.T. 0.182 min  
 Lab File: VX022396.D  
 Acq: 04 Jun 2021 03:22

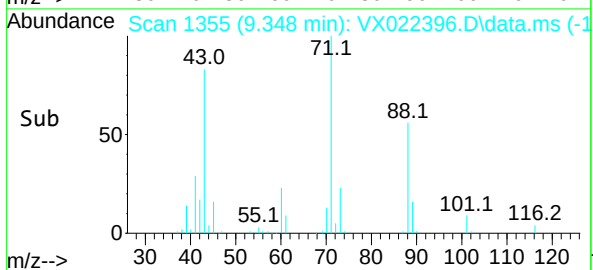
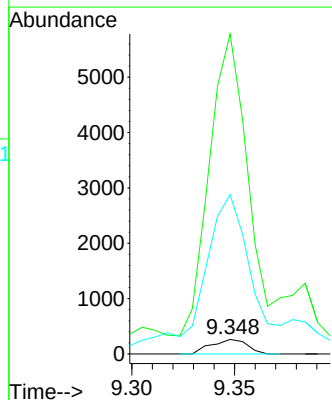
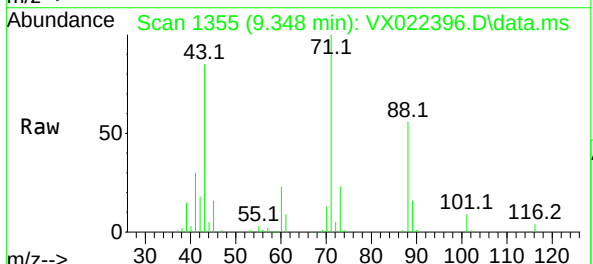
Instrument :  
 MSVOA\_X  
 ClientSampled :

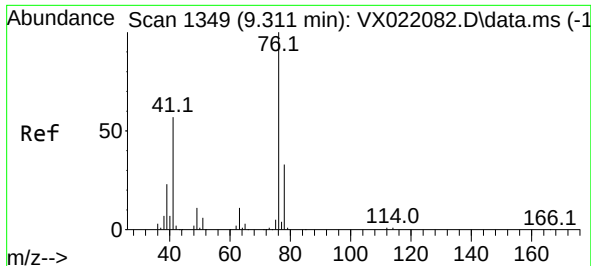
Tgt Ion: 75 Resp: 19916  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 25.7 38.5#  
 39 30.9 35.1 52.7#



#56  
 Ethyl methacrylate  
 Concen: 0.20 ug/l  
 RT: 9.348 min Scan# 1355  
 Delta R.T. 0.226 min  
 Lab File: VX022396.D  
 Acq: 04 Jun 2021 03:22

Tgt Ion: 69 Resp: 321  
 Ion Ratio Lower Upper  
 69 100  
 41 2234.3 46.8 70.2#  
 39 1281.0 24.7 37.1#





#57

1,3-Dichloropropane

Concen: 6.93 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.177 min

Lab File: VX022396.D

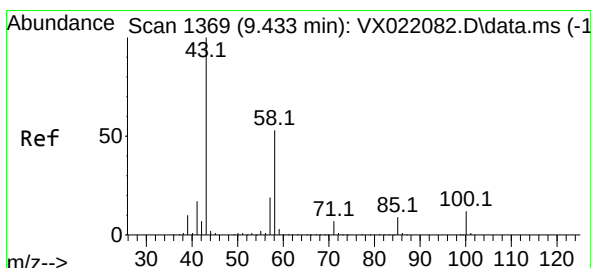
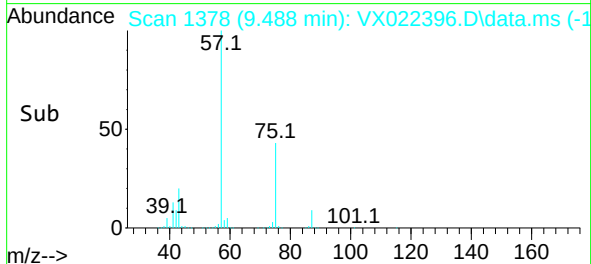
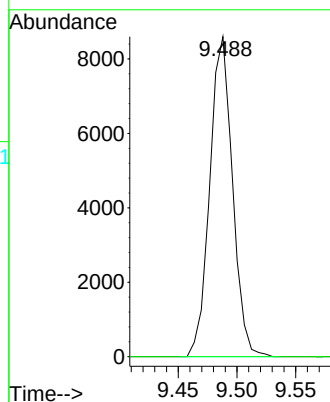
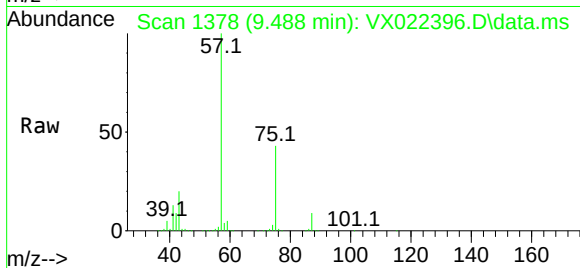
Acq: 04 Jun 2021 03:22

Tgt Ion: 76 Resp: 11552

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 138.07 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.055 min

Lab File: VX022396.D

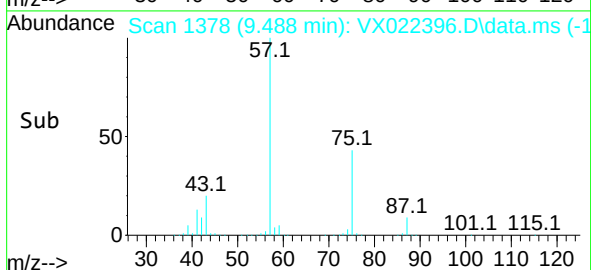
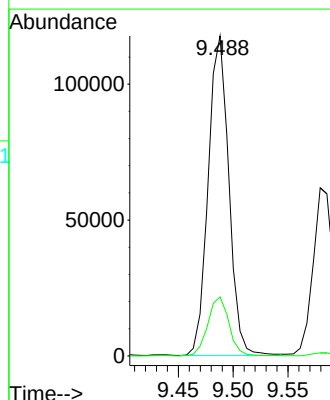
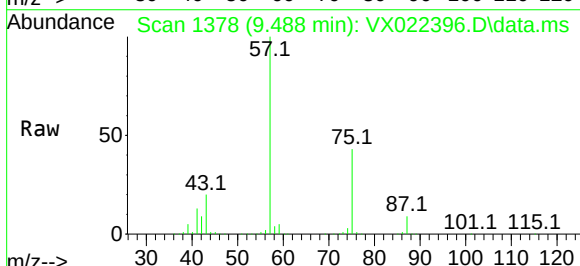
Acq: 04 Jun 2021 03:22

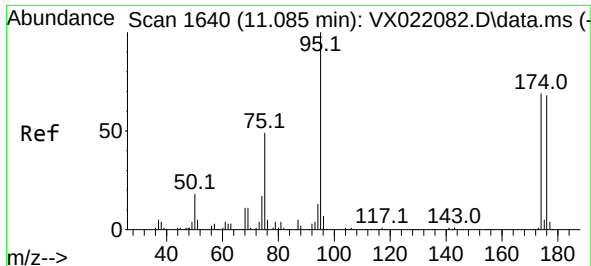
Tgt Ion: 43 Resp: 153945

Ion Ratio Lower Upper

43 100

58 19.1 30.9 92.8#

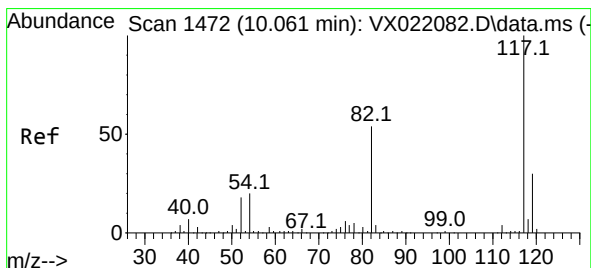
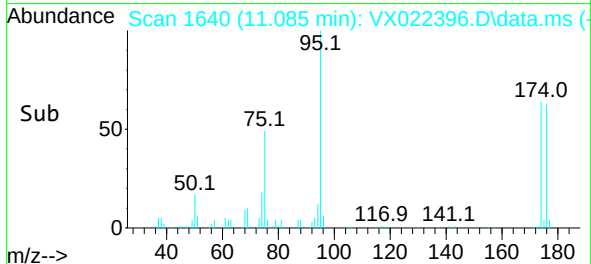
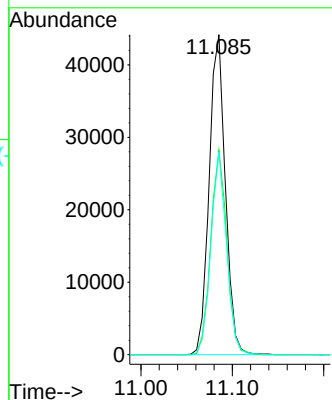
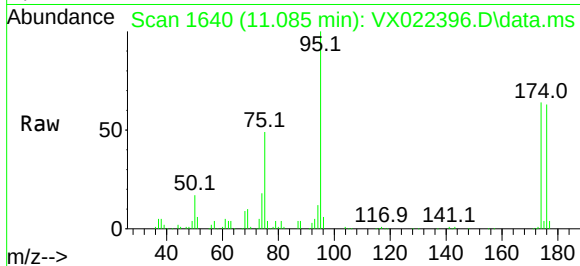




#62  
4-Bromofluorobenzene  
Concen: 44.95 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

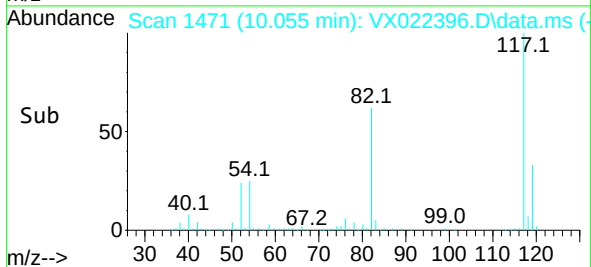
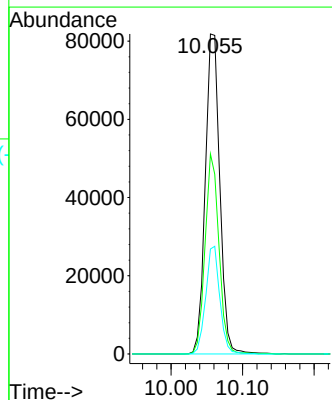
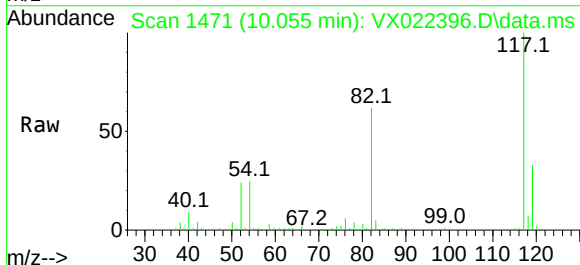
Instrument :  
MSVOA\_X  
ClientSampleId :

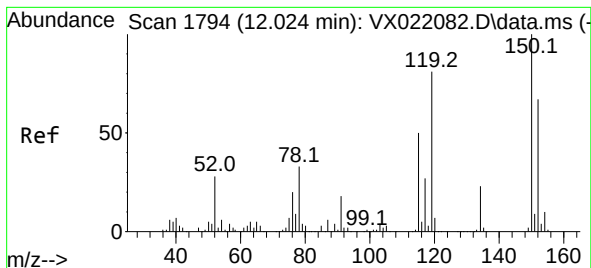
Tgt Ion: 95 Resp: 54179  
Ion Ratio Lower Upper  
95 100  
174 63.6 0.0 154.6  
176 61.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Tgt Ion: 117 Resp: 115564  
Ion Ratio Lower Upper  
117 100  
82 62.5 47.4 71.2  
119 32.8 26.6 39.8

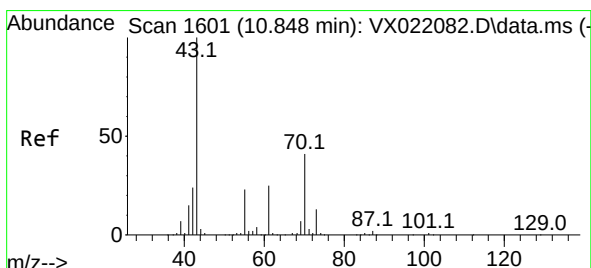
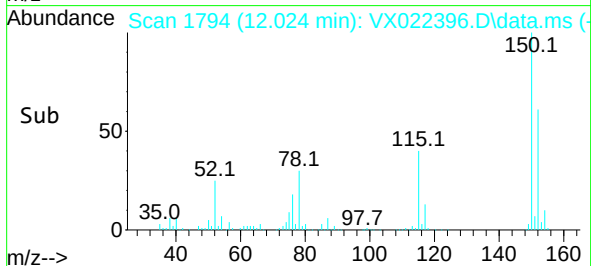
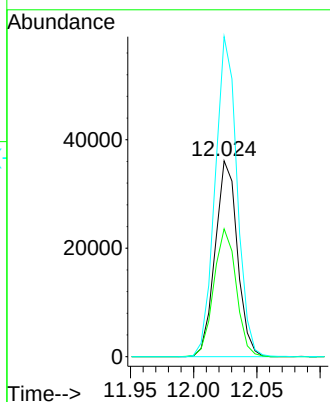
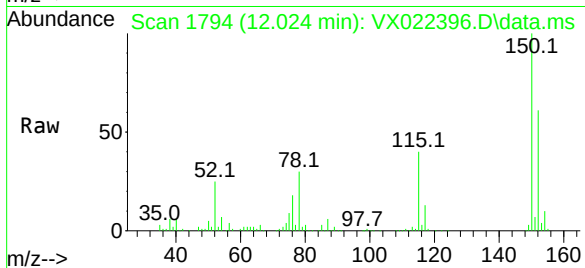




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

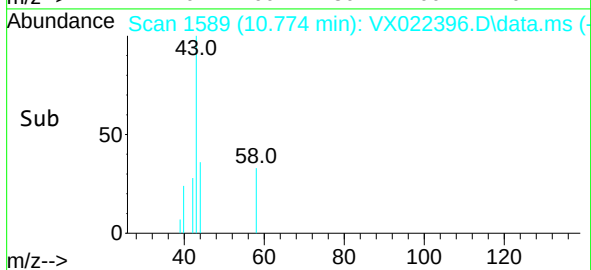
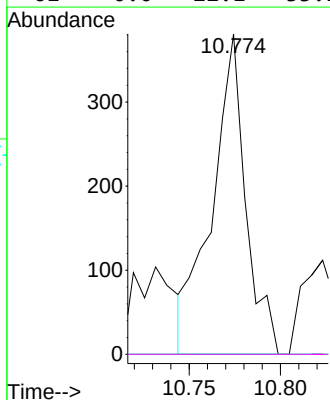
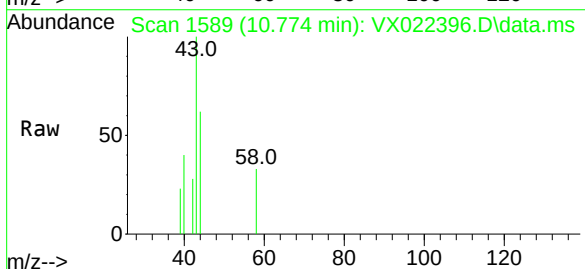
Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:152 Resp: 44017  
Ion Ratio Lower Upper  
152 100  
115 65.9 41.1 123.3  
150 161.2 0.0 349.0

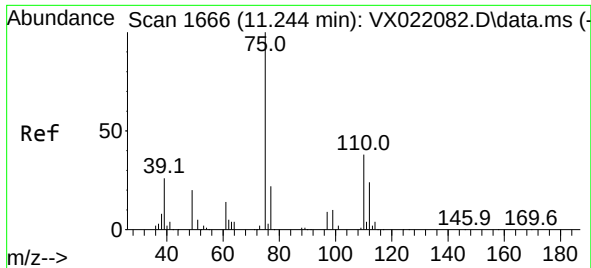


#74  
N-ethyl acetate  
Concen: 0.28 ug/l  
RT: 10.774 min Scan# 1589  
Delta R.T. -0.074 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

Tgt Ion: 43 Resp: 490  
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#



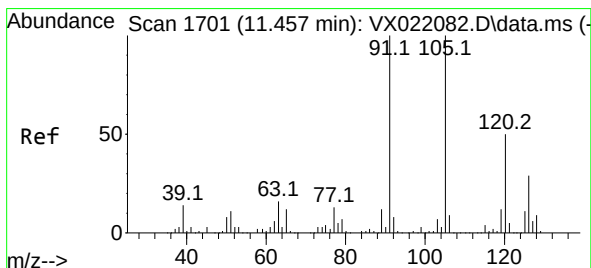
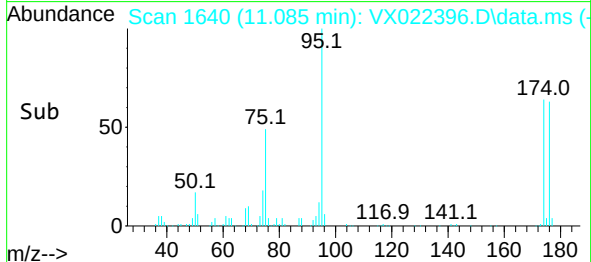
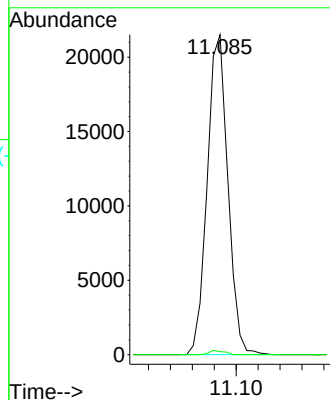
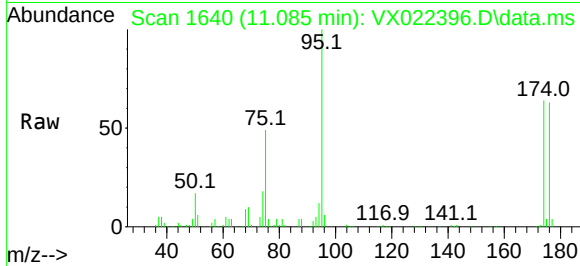




#76  
1,2,3-Trichloropropane  
Concen: 25.89 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

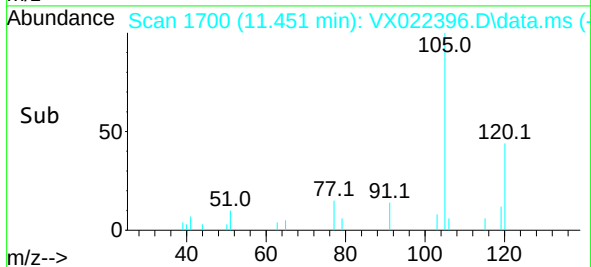
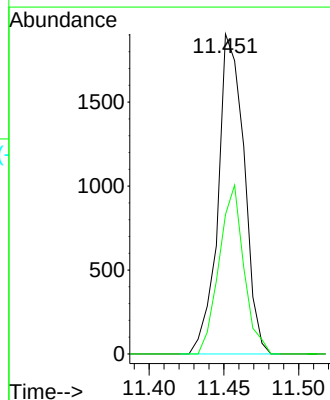
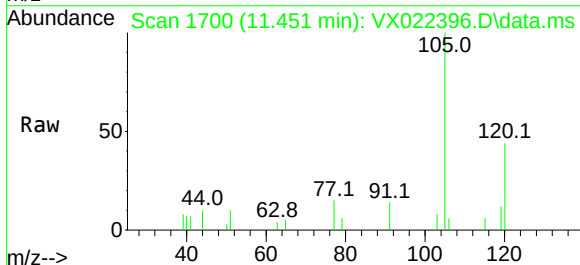
Instrument :  
MSVOA\_X  
ClientSampled :

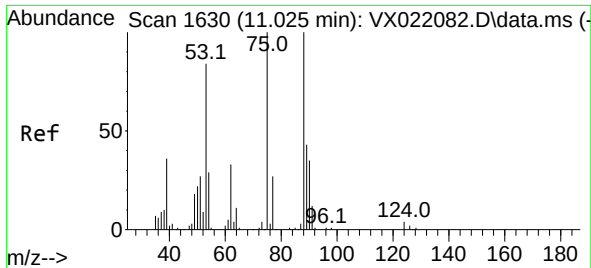
Tgt Ion: 75 Resp: 28109  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.75 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.006 min  
Lab File: VX022396.D  
Acq: 04 Jun 2021 03:22

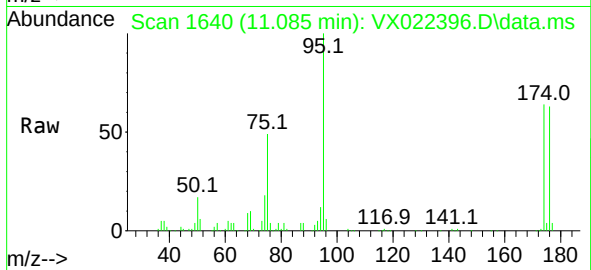
Tgt Ion: 105 Resp: 2309  
Ion Ratio Lower Upper  
105 100  
120 50.0 23.8 71.5





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.33 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.060 min  
 Lab File: VX022396.D  
 Acq: 04 Jun 2021 03:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 28109  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 74.5  | 111.7# |
| 89       | 0.1   | 37.9  | 56.9#  |

