

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060221\  
 Data File : VX022336.D  
 Acq On : 02 Jun 2021 14:17  
 Operator : JC/MD  
 Sample : M2572-05DL 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 03 02:20:14 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

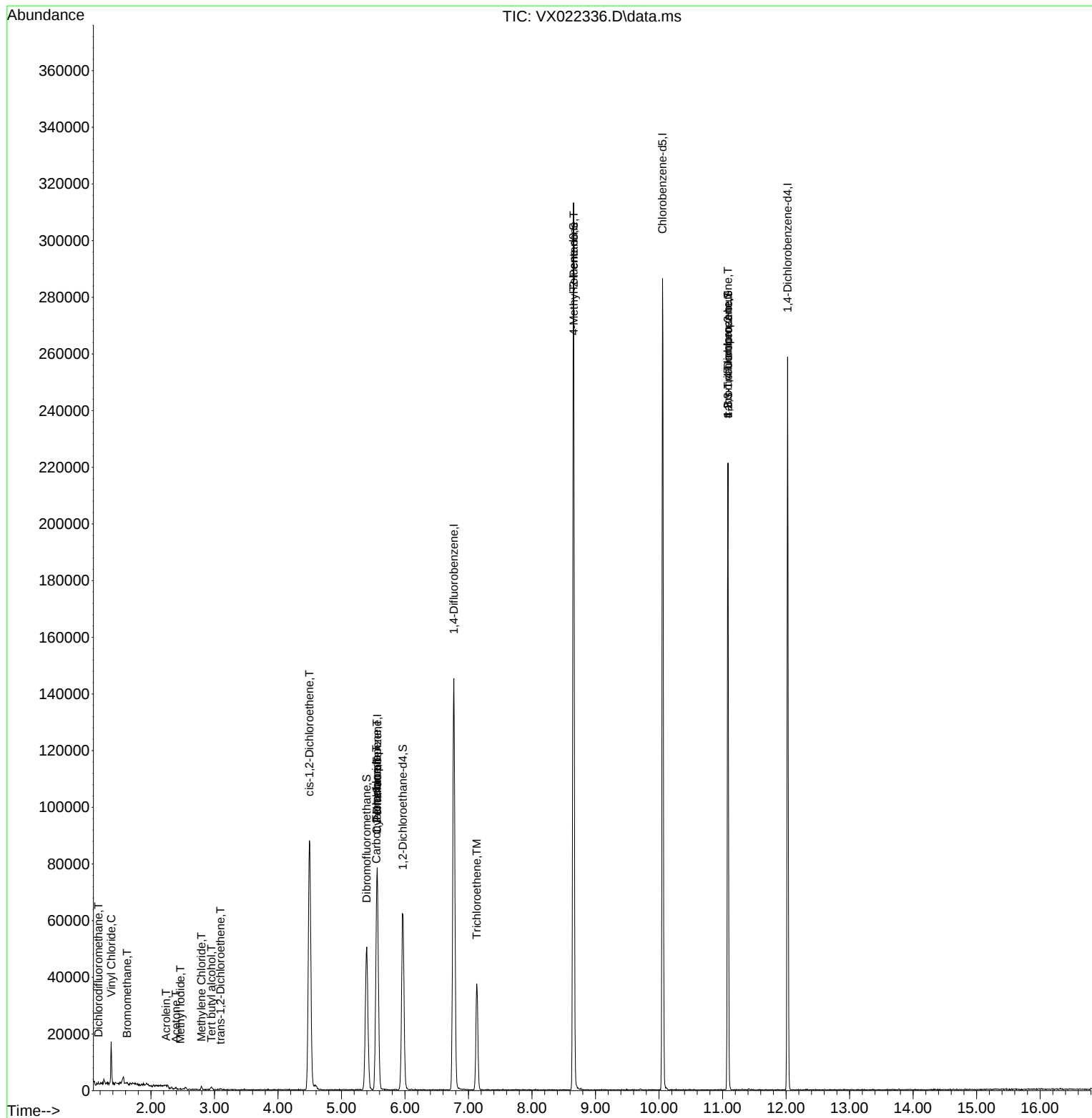
| Compound                      | R.T.   | QIon     | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|--------|----------|----------|-------|---------|----------|
| -----                         |        |          |          |       |         |          |
| Internal Standards            |        |          |          |       |         |          |
| 1) Pentafluorobenzene         | 5.562  | 168      | 64851    | 50.00 | ug/l    | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769  | 114      | 142717   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117      | 123184   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152      | 44770    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds   |        |          |          |       |         |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65       | 57225    | 57.20 | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range  | 78 - 117 | Recovery | =     | 114.40% |          |
| 35) Dibromofluoromethane      | 5.397  | 113      | 42840    | 47.33 | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range  | 75 - 124 | Recovery | =     | 94.66%  |          |
| 50) Toluene-d8                | 8.653  | 98       | 173689   | 49.82 | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range  | 92 - 112 | Recovery | =     | 99.64%  |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95       | 58522    | 45.41 | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range  | 83 - 123 | Recovery | =     | 90.82%  |          |
| Target Compounds              |        |          |          |       |         |          |
|                               |        |          |          |       |         | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.172  | 85       | 314      | 0.40  | ug/l    | 72       |
| 4) Vinyl Chloride             | 1.374  | 62       | 8314     | 9.24  | ug/l    | 99       |
| 5) Bromomethane               | 1.624  | 94       | 266      | 0.51  | ug/l #  | 63       |
| 10) Methyl Iodide             | 2.465  | 142      | 176      | 0.21  | ug/l #  | 55       |
| 11) Tert butyl alcohol        | 2.953  | 59       | 537      | 2.35  | ug/l #  | 73       |
| 13) Acrolein                  | 2.239  | 56       | 61       | 0.40  | ug/l #  | 48       |
| 16) Acetone                   | 2.392  | 43       | 572      | 1.31  | ug/l #  | 88       |
| 20) Methylene Chloride        | 2.794  | 84       | 367      | 0.38  | ug/l #  | 34       |
| 21) trans-1,2-Dichloroethene  | 3.093  | 96       | 238      | 0.29  | ug/l #  | 50       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96       | 54380    | 55.31 | ug/l    | 91       |
| 31) Cyclohexane               | 5.556  | 56       | 1971     | 1.57  | ug/l #  | 61       |
| 36) 1,1-Dichloropropene       | 5.556  | 75       | 6479     | 4.91  | ug/l #  | 48       |
| 38) Carbon Tetrachloride      | 5.550  | 117      | 8244     | 6.39  | ug/l #  | 17       |
| 44) Trichloroethene           | 7.129  | 130      | 13580    | 13.46 | ug/l    | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.659  | 43       | 908      | 0.57  | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75       | 29548    | 26.75 | ug/l #  | 40       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75       | 29548    | 63.39 | ug/l #  | 12       |
| -----                         |        |          |          |       |         |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060221\  
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Acq On : 02 Jun 2021 14:17  
Operator : JC/MD  
Sample : M2572-05DL 100X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

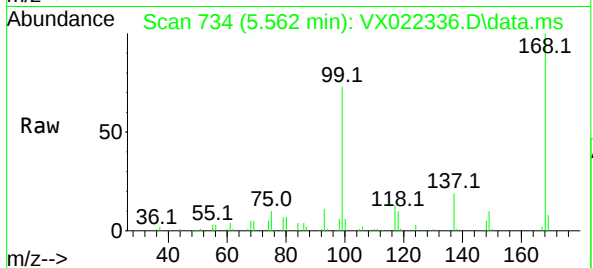
Quant Time: Jun 03 02:20:14 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration



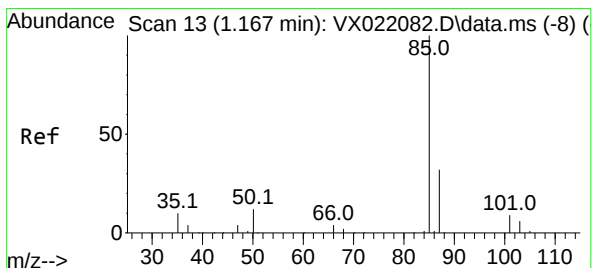
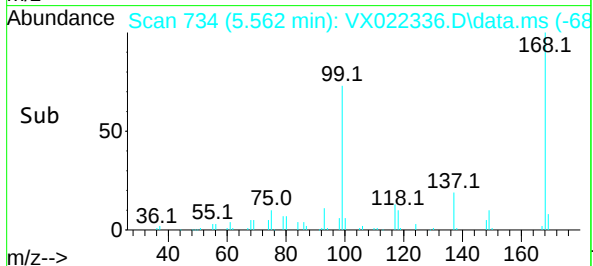
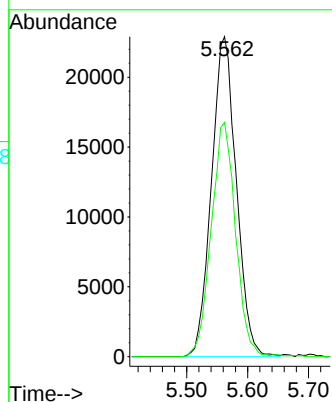


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

Instrument :  
MSVOA\_X  
ClientSampled :

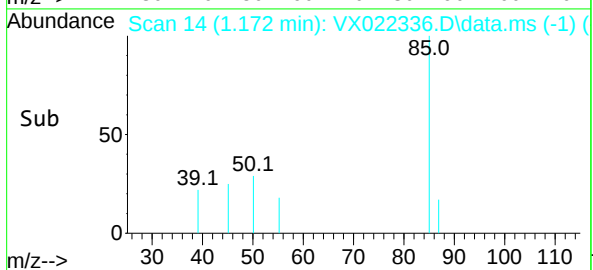
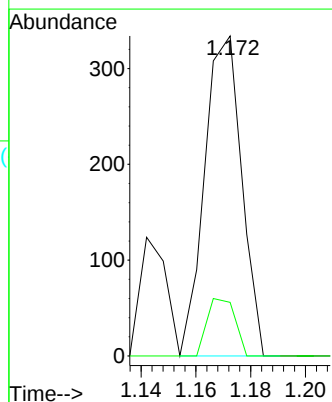
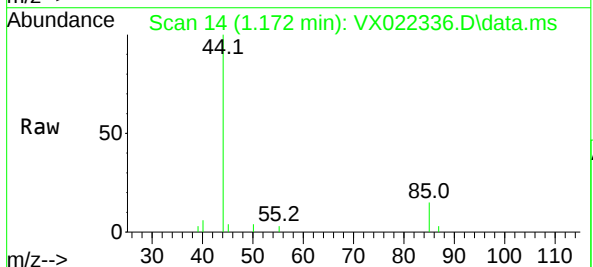


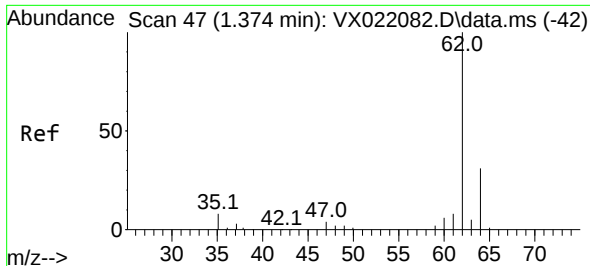
Tgt Ion:168 Resp: 64851  
Ion Ratio Lower Upper  
168 100  
99 73.2 45.8 68.6#



#2  
Dichlorodifluoromethane  
Concen: 0.40 ug/l  
RT: 1.172 min Scan# 14  
Delta R.T. 0.005 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

Tgt Ion: 85 Resp: 314  
Ion Ratio Lower Upper  
85 100  
87 16.8 16.4 49.2

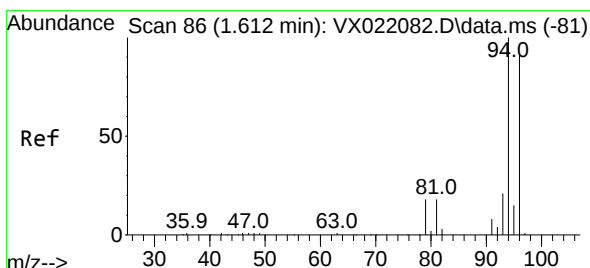
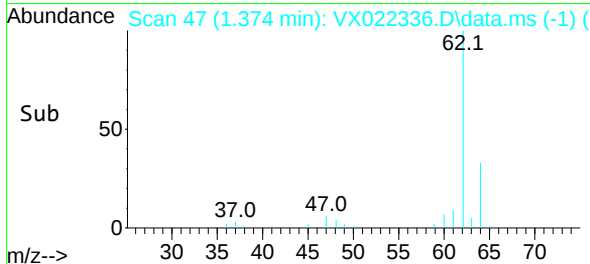
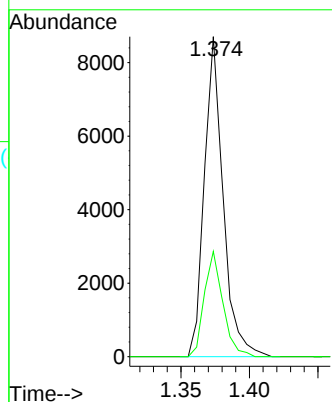
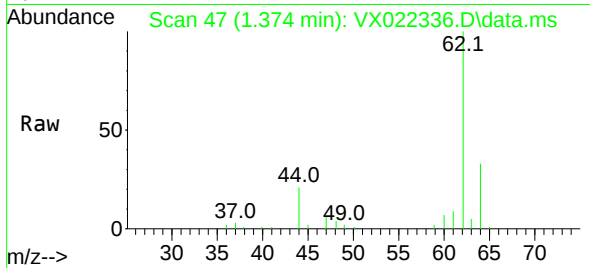




#4  
 Vinyl Chloride  
 Concen: 9.24 ug/l  
 RT: 1.374 min Scan# 47  
 Delta R.T. -0.000 min  
 Lab File: VX022336.D  
 Acq: 02 Jun 2021 14:17

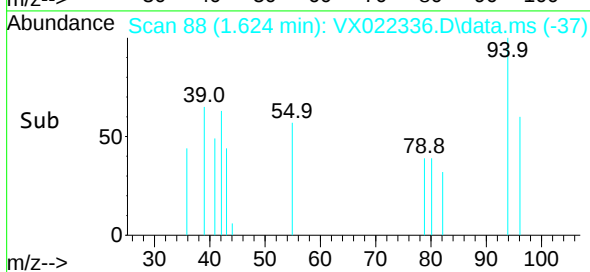
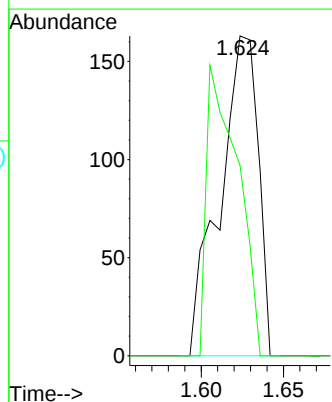
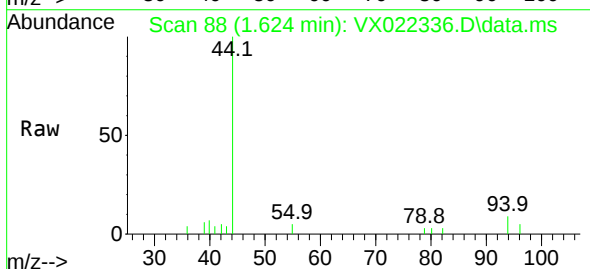
Instrument :  
 MSVOA\_X  
 ClientSampled :

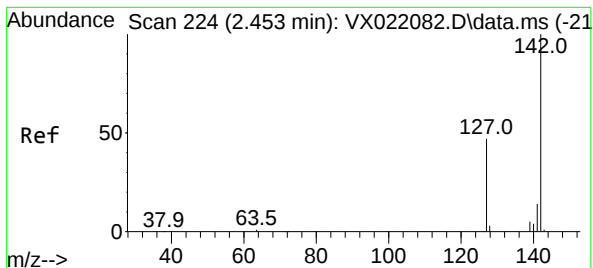
Tgt Ion: 62 Resp: 8314  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 25.7 38.5



#5  
 Bromomethane  
 Concen: 0.51 ug/l  
 RT: 1.624 min Scan# 88  
 Delta R.T. 0.012 min  
 Lab File: VX022336.D  
 Acq: 02 Jun 2021 14:17

Tgt Ion: 94 Resp: 266  
 Ion Ratio Lower Upper  
 94 100  
 96 59.5 76.4 114.6#





#10

Methyl Iodide

Concen: 0.21 ug/l

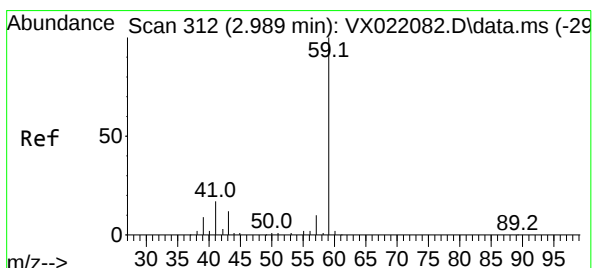
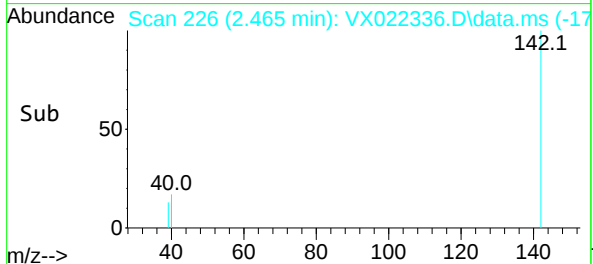
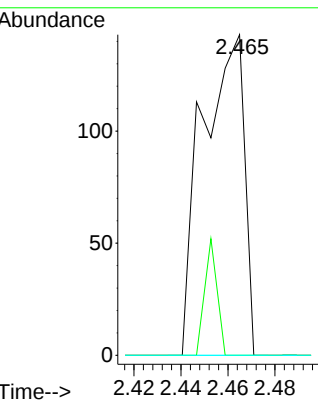
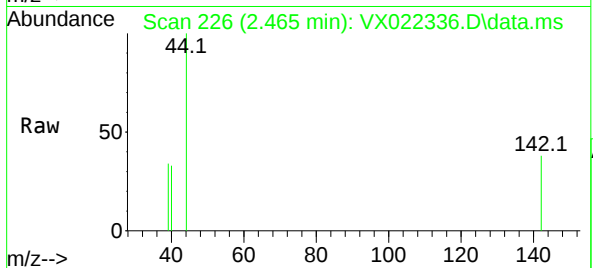
RT: 2.465 min Scan# 226

Delta R.T. 0.012 min

Lab File: VX022336.D

Acq: 02 Jun 2021 14:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 176   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 10.8  | 33.3  | 49.9# |
| 141      | 0.0   | 11.4  | 17.0# |



#11

Tert butyl alcohol

Concen: 2.35 ug/l

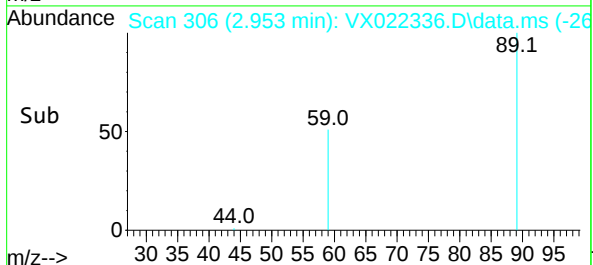
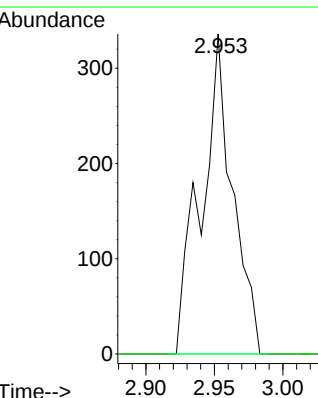
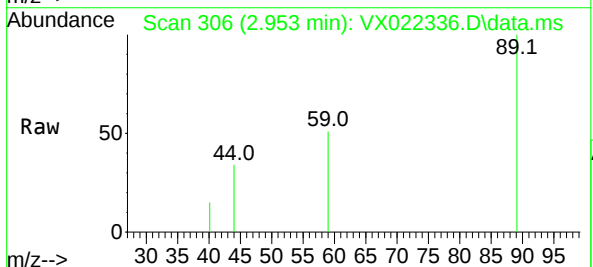
RT: 2.953 min Scan# 306

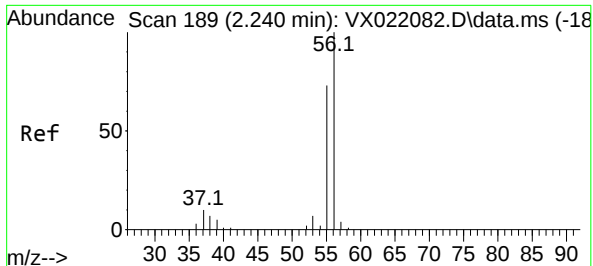
Delta R.T. -0.036 min

Lab File: VX022336.D

Acq: 02 Jun 2021 14:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 537   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 0.0   | 7.8   | 11.8# |

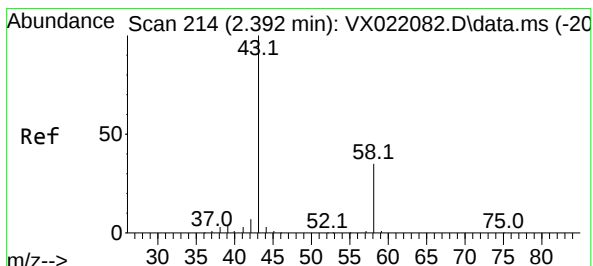
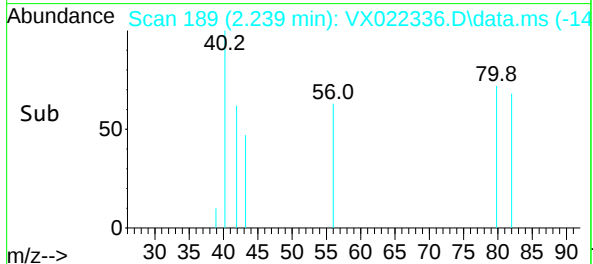
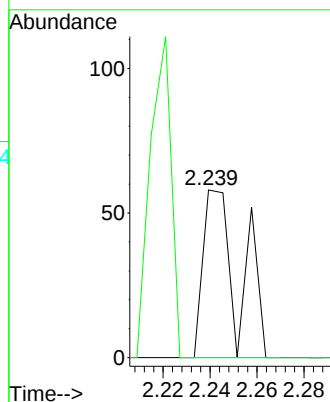
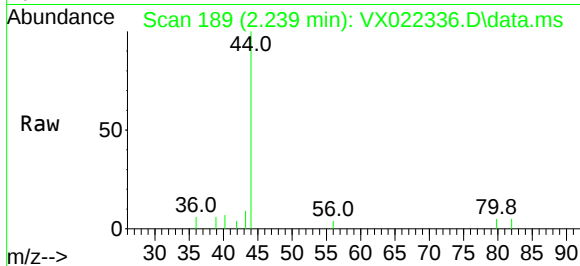




#13  
Acrolein  
Concen: 0.40 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.001 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

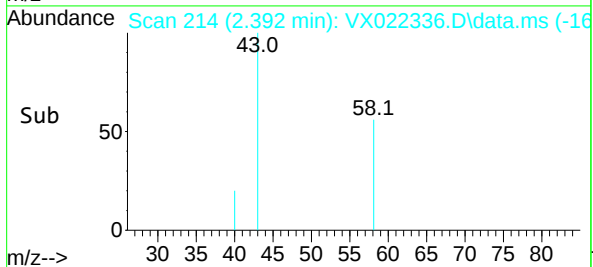
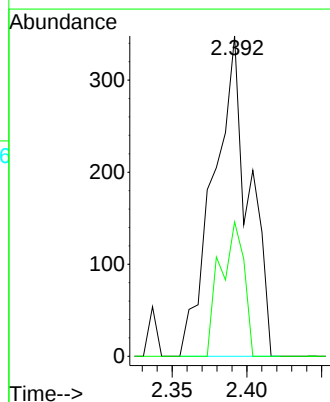
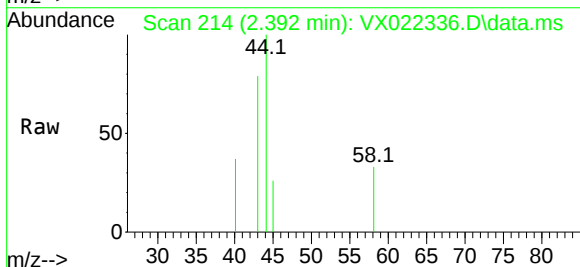
Instrument :  
MSVOA\_X  
ClientSampled :

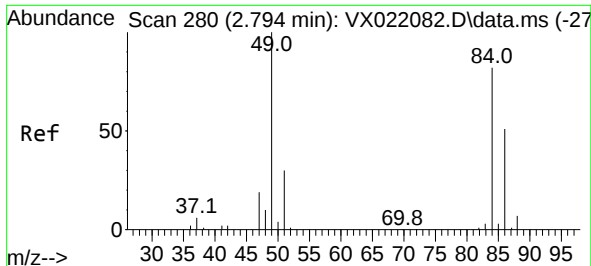
Tgt Ion: 56 Resp: 61  
Ion Ratio Lower Upper  
56 100  
55 113.1 56.4 84.6#



#16  
Acetone  
Concen: 1.31 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

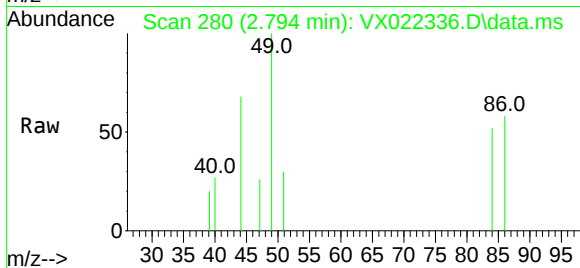
Tgt Ion: 43 Resp: 572  
Ion Ratio Lower Upper  
43 100  
58 42.0 27.8 41.8#



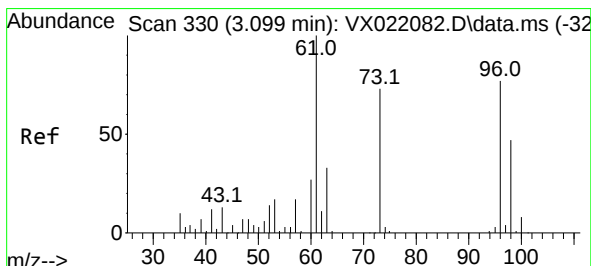
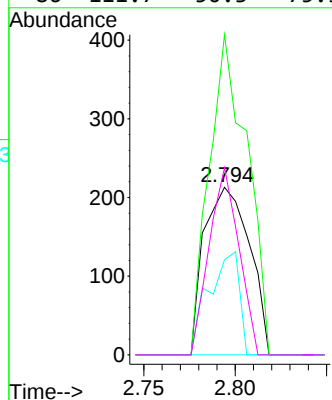
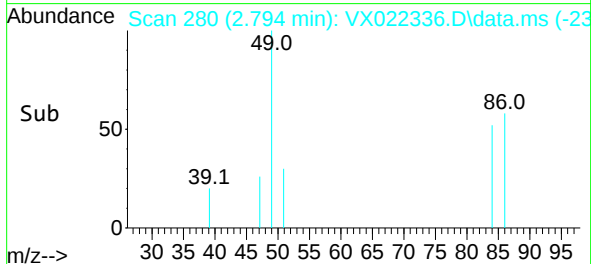


#20  
Methylene Chloride  
Concen: 0.38 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

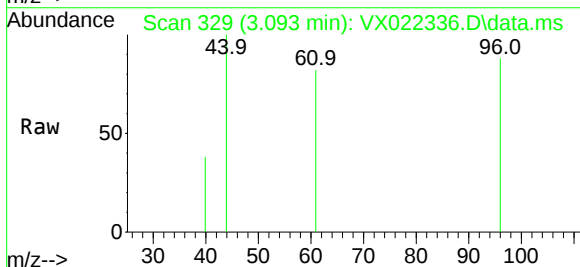
Instrument :  
MSVOA\_X  
ClientSampleId :



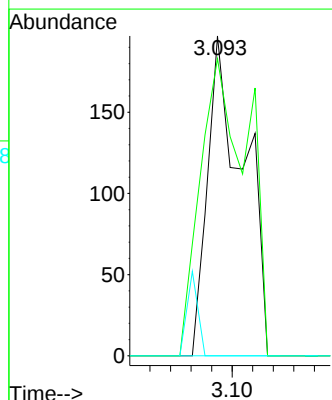
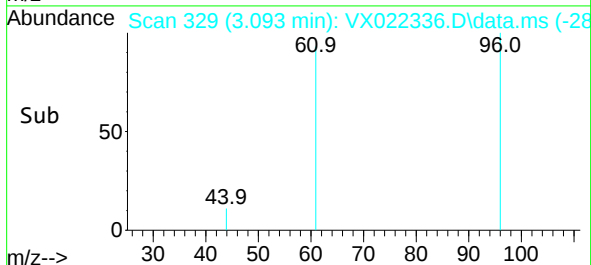
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 367   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 191.1    | 88.6 132.8# |
| 51 56.8     | 27.0 40.6#  |
| 86 111.7    | 50.3 75.5#  |

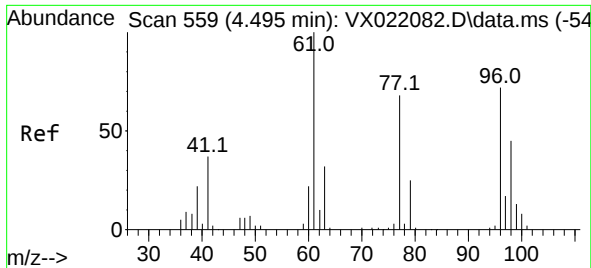


#21  
trans-1,2-Dichloroethene  
Concen: 0.29 ug/l  
RT: 3.093 min Scan# 329  
Delta R.T. -0.006 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17



|             |              |
|-------------|--------------|
| Tgt Ion: 96 | Resp: 238    |
| Ion Ratio   | Lower Upper  |
| 96 100      |              |
| 61 92.9     | 107.7 161.5# |
| 98 0.0      | 50.4 75.6#   |





#27

cis-1,2-Dichloroethene

Concen: 55.31 ug/l

RT: 4.495 min Scan# 559

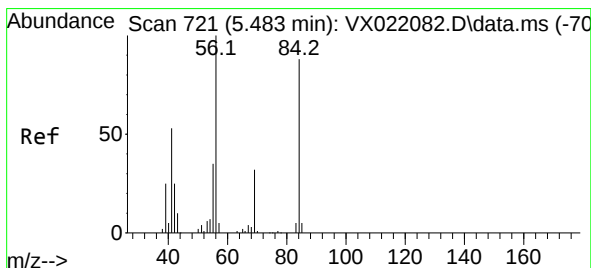
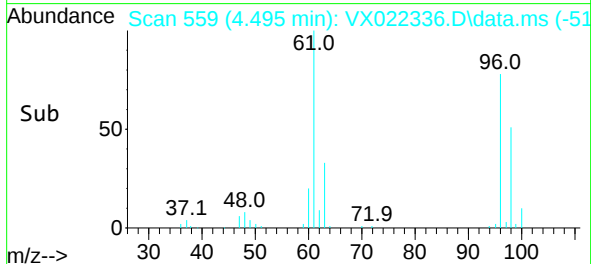
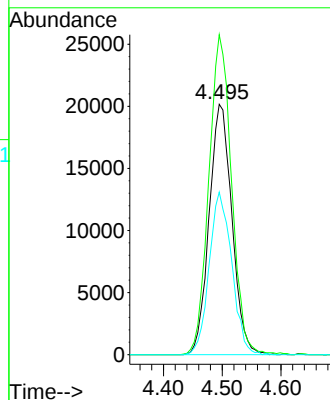
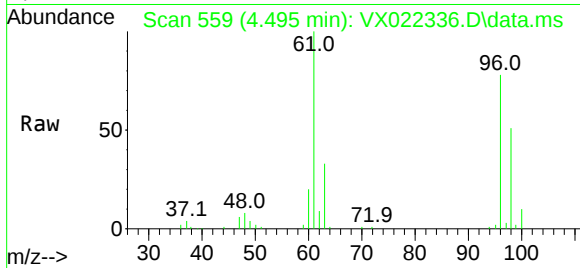
Delta R.T. 0.000 min

Lab File: VX022336.D

Acq: 02 Jun 2021 14:17

Tgt Ion: 96 Resp: 54380

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 127.3 | 0.0   | 285.6 |
| 98  | 64.1  | 0.0   | 129.6 |



#31

Cyclohexane

Concen: 1.57 ug/l

RT: 5.556 min Scan# 733

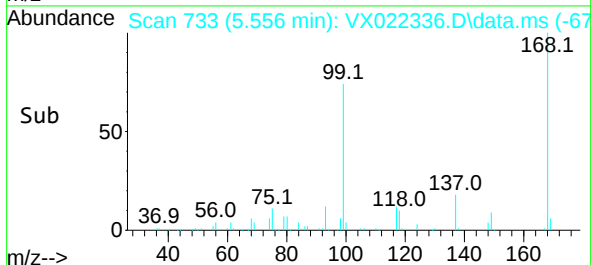
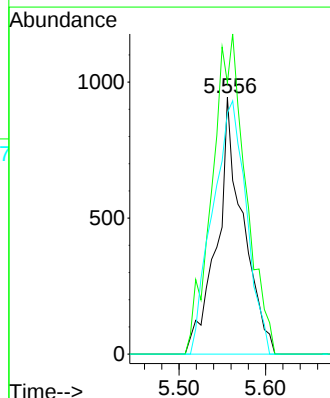
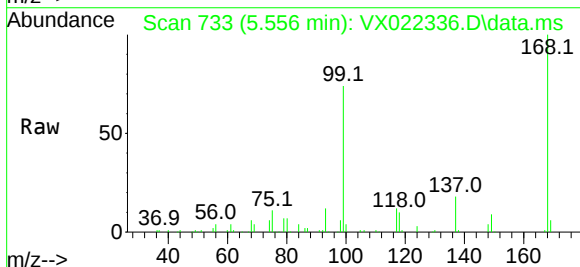
Delta R.T. 0.073 min

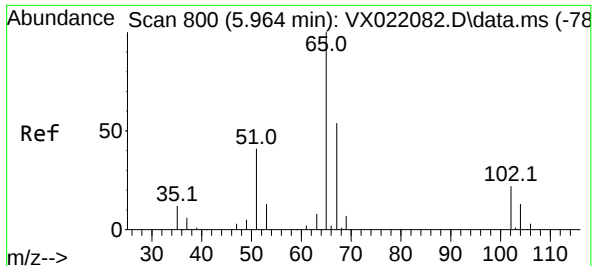
Lab File: VX022336.D

Acq: 02 Jun 2021 14:17

Tgt Ion: 56 Resp: 1971

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 105.6 | 25.3  | 37.9# |
| 84  | 94.0  | 71.4  | 107.0 |





#33

1,2-Dichloroethane-d4

Concen: 57.20 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX022336.D

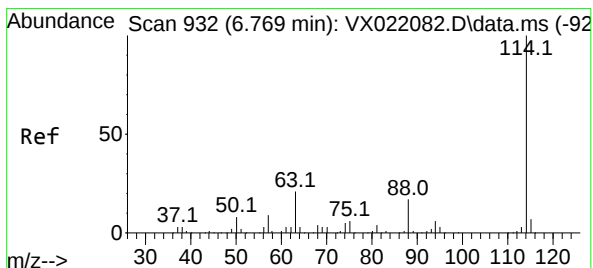
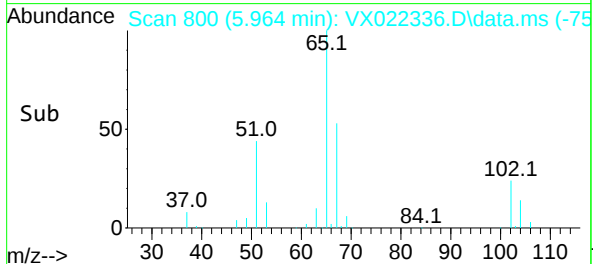
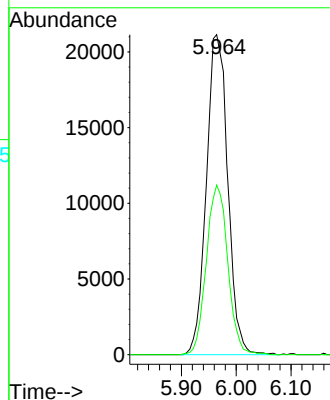
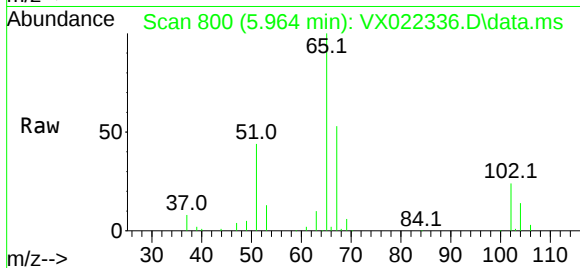
Acq: 02 Jun 2021 14:17

Tgt Ion: 65 Resp: 57225

Ion Ratio Lower Upper

65 100

67 53.1 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: VX022336.D

Acq: 02 Jun 2021 14:17

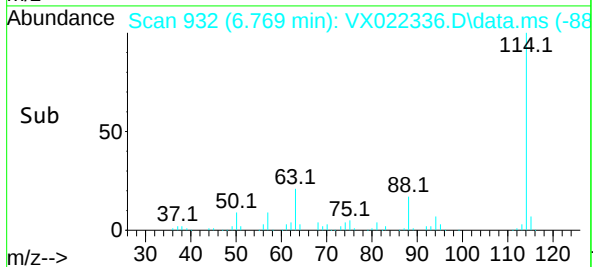
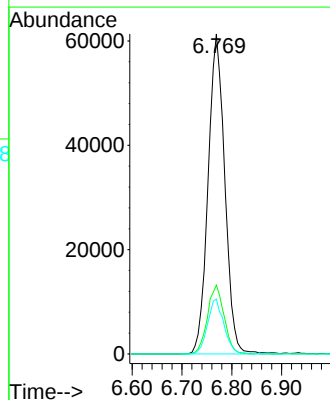
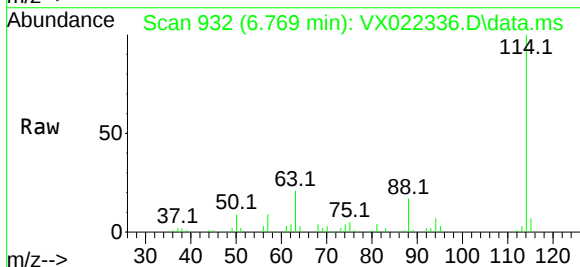
Tgt Ion: 114 Resp: 142717

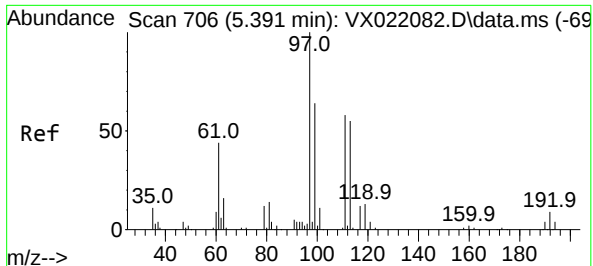
Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

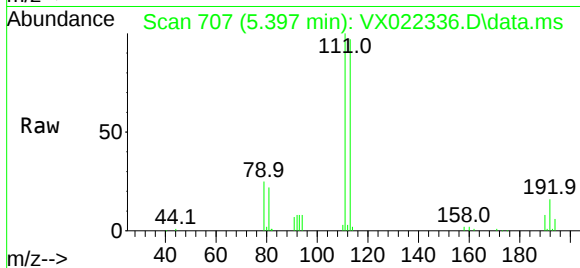
88 17.2 0.0 32.8



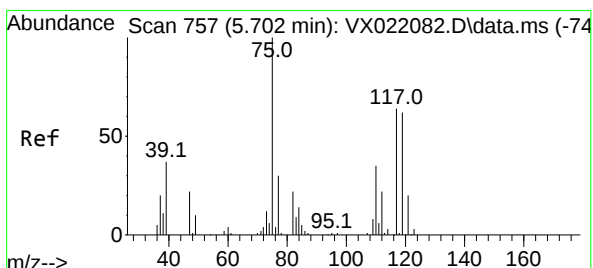
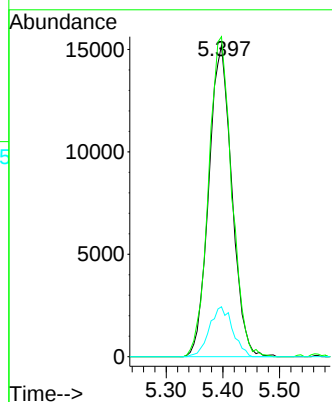
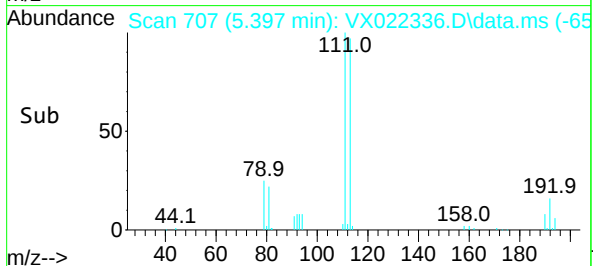


#35  
Dibromofluoromethane  
Concen: 47.33 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

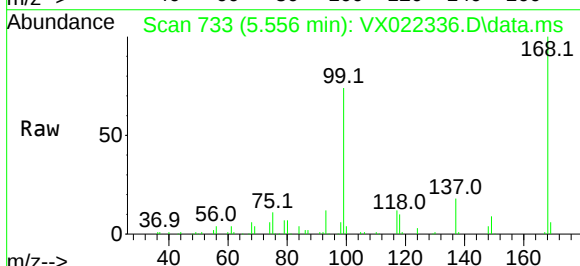
Instrument :  
MSVOA\_X  
ClientSampled :



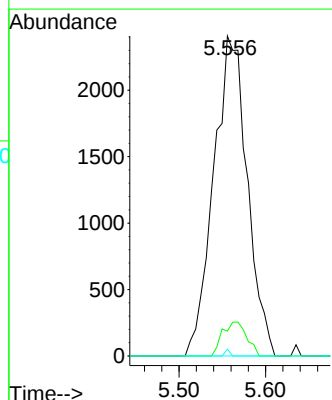
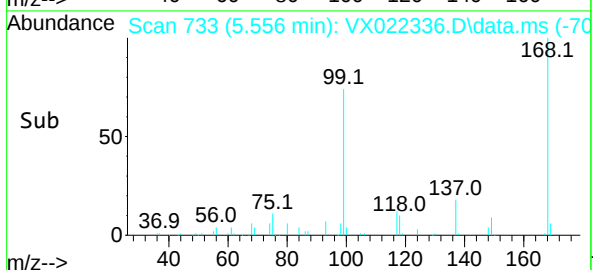
Tgt Ion:113 Resp: 42840  
Ion Ratio Lower Upper  
113 100  
111 103.7 81.9 122.9  
192 16.2 16.7 25.1#

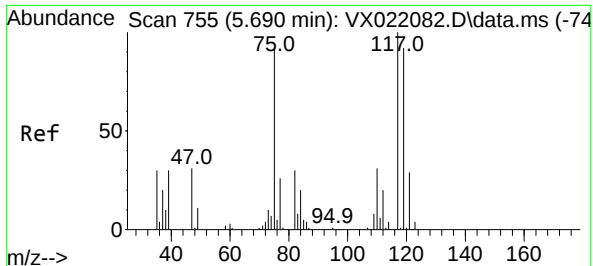


#36  
1,1-Dichloropropene  
Concen: 4.91 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17



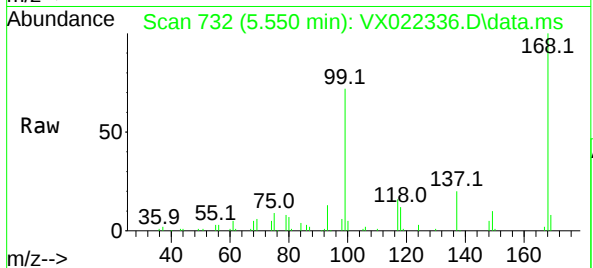
Tgt Ion: 75 Resp: 6479  
Ion Ratio Lower Upper  
75 100  
110 7.7 18.1 54.4#  
77 0.3 25.3 37.9#



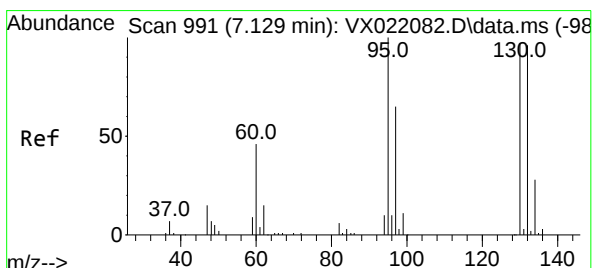
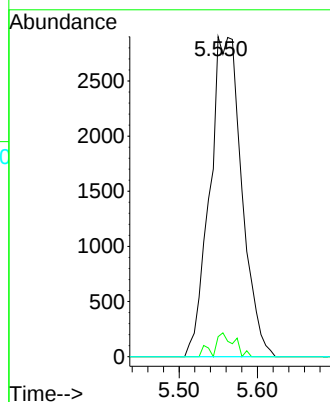
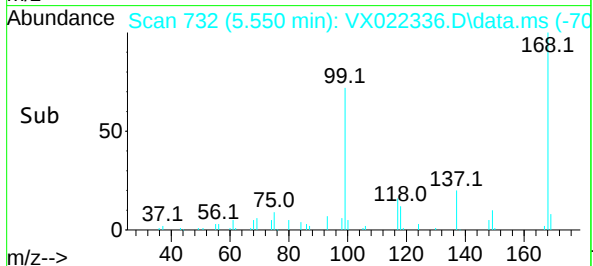


#38  
Carbon Tetrachloride  
Concen: 6.39 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

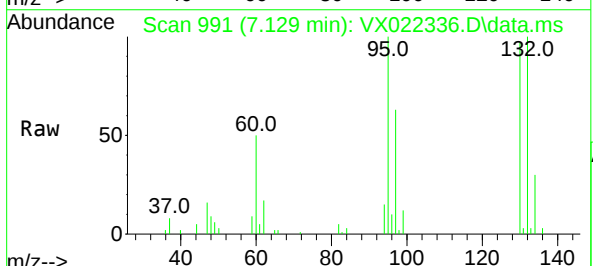
Instrument :  
MSVOA\_X  
ClientSampled :



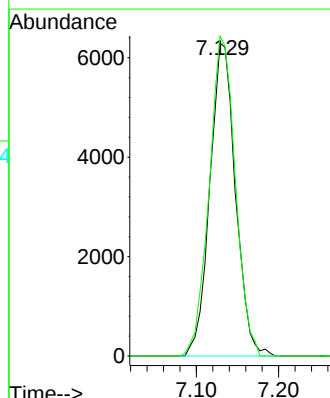
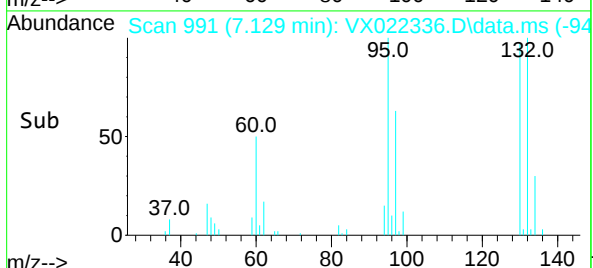
Tgt Ion:117 Resp: 8244  
Ion Ratio Lower Upper  
117 100  
119 6.2 76.2 114.2#  
121 0.0 24.8 37.2#

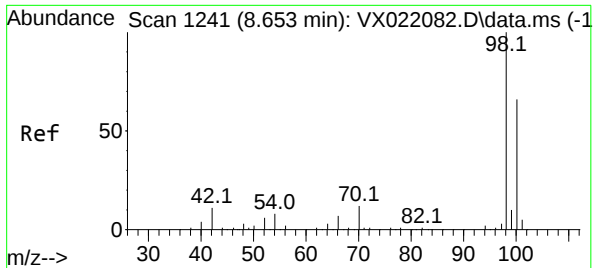


#44  
Trichloroethene  
Concen: 13.46 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17



Tgt Ion:130 Resp: 13580  
Ion Ratio Lower Upper  
130 100  
95 102.2 0.0 198.0

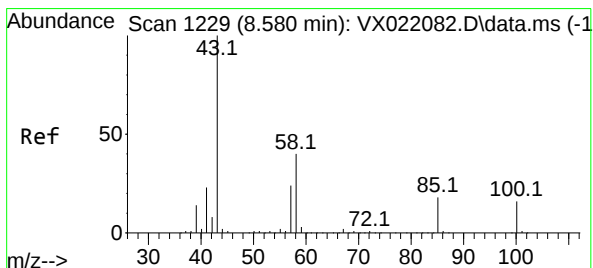
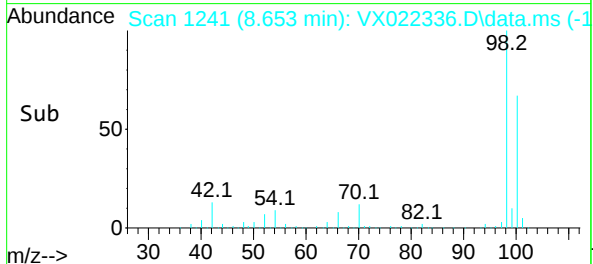
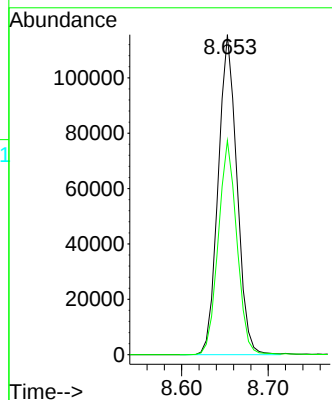
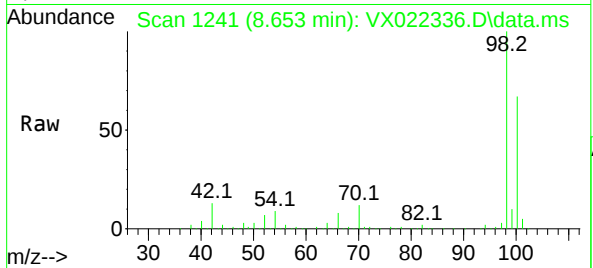




#50  
Toluene-d8  
Concen: 49.82 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

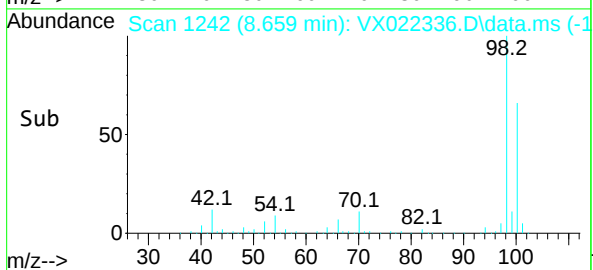
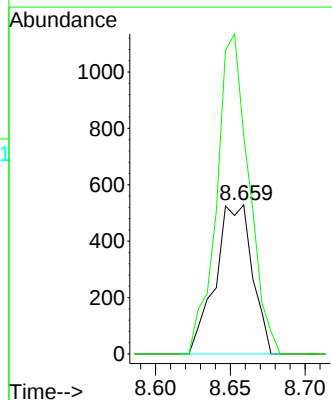
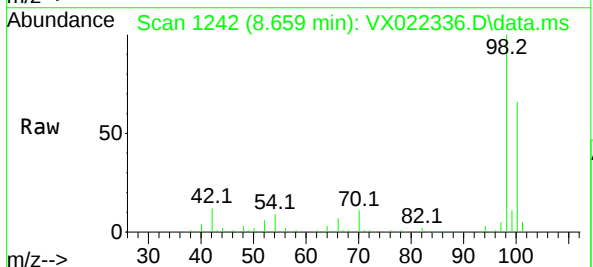
Instrument :  
MSVOA\_X  
ClientSampled :

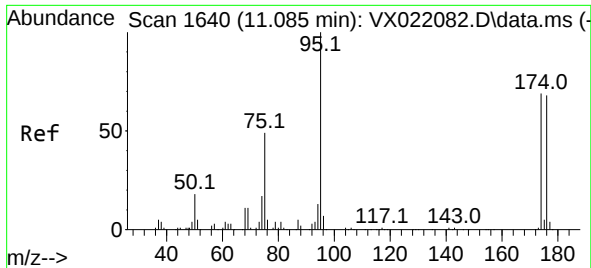
Tgt Ion: 98 Resp: 173689  
Ion Ratio Lower Upper  
98 100  
100 66.6 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 0.57 ug/l  
RT: 8.659 min Scan# 1242  
Delta R.T. 0.079 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

Tgt Ion: 43 Resp: 908  
Ion Ratio Lower Upper  
43 100  
58 186.8 35.4 53.0#

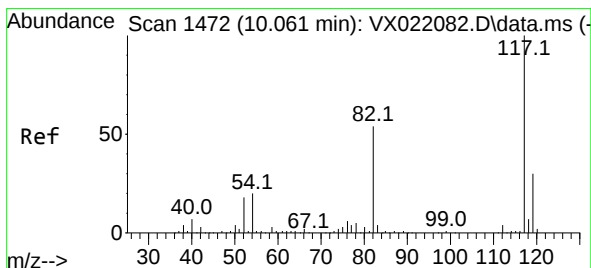
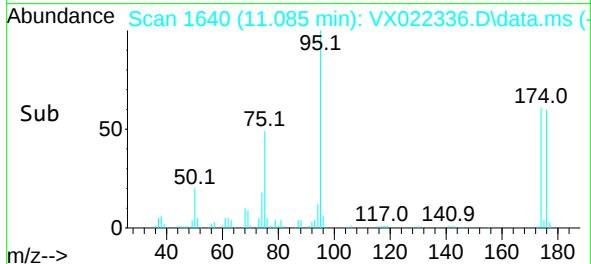
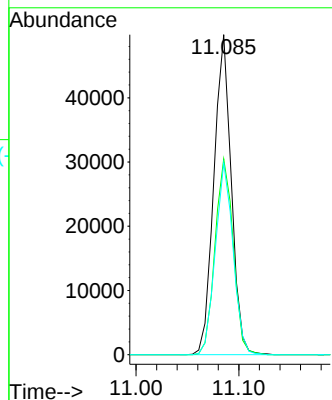
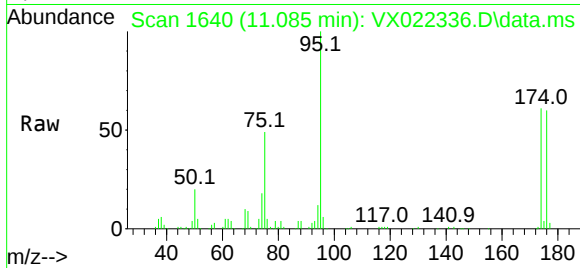




#62  
4-Bromofluorobenzene  
Concen: 45.41 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

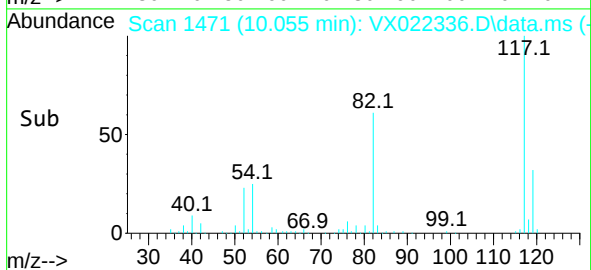
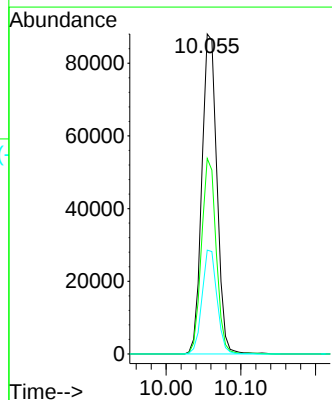
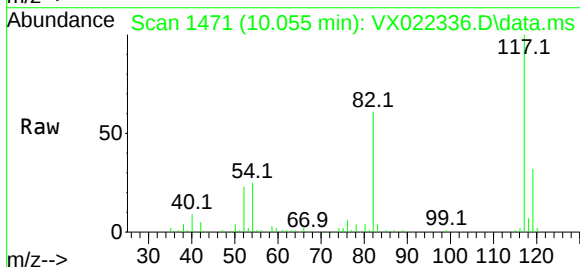
Instrument :  
MSVOA\_X  
ClientSampleId :

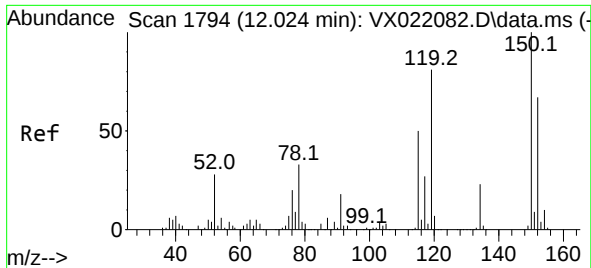
Tgt Ion: 95 Resp: 58522  
Ion Ratio Lower Upper  
95 100  
174 63.8 0.0 154.6  
176 61.0 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022336.D  
Acq: 02 Jun 2021 14:17

Tgt Ion: 117 Resp: 123184  
Ion Ratio Lower Upper  
117 100  
82 61.1 47.4 71.2  
119 32.5 26.6 39.8

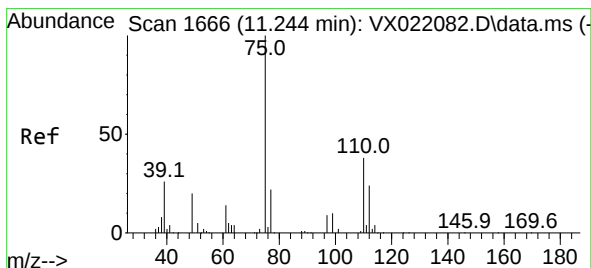
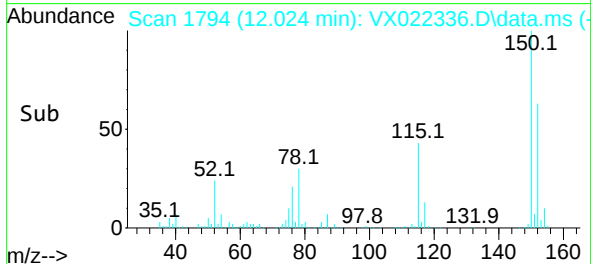
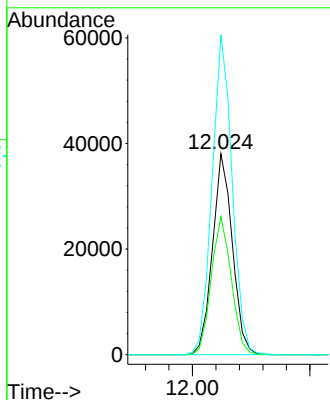
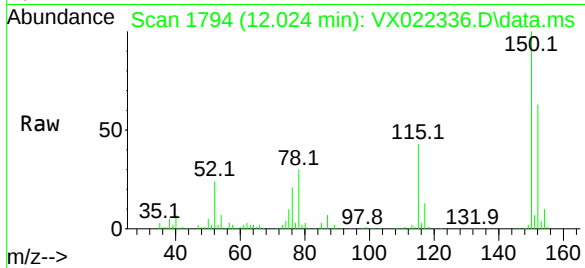




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.024 min Scan# 1794  
 Delta R.T. 0.000 min  
 Lab File: VX022336.D  
 Acq: 02 Jun 2021 14:17

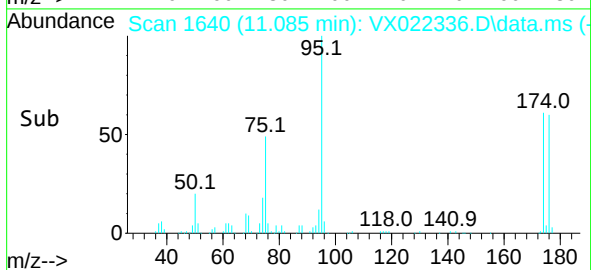
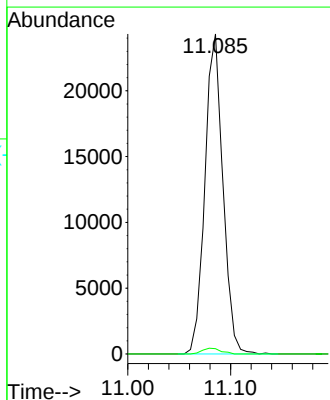
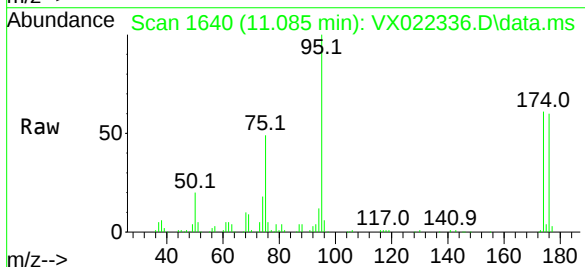
Instrument :  
 MSVOA\_X  
 ClientSampled :

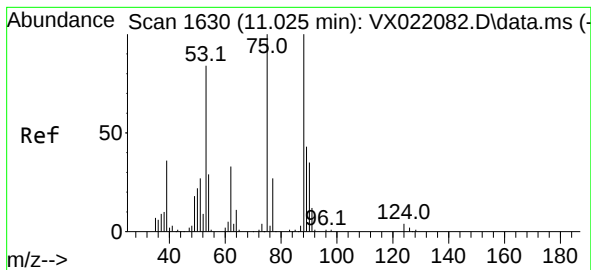
Tgt Ion:152 Resp: 44770  
 Ion Ratio Lower Upper  
 152 100  
 115 69.1 41.1 123.3  
 150 160.8 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 26.75 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX022336.D  
 Acq: 02 Jun 2021 14:17

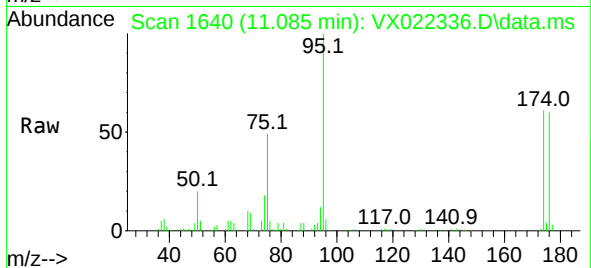
Tgt Ion: 75 Resp: 29548  
 Ion Ratio Lower Upper  
 75 100  
 77 1.9 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.39 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.060 min  
 Lab File: VX022336.D  
 Acq: 02 Jun 2021 14:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 29548  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

