

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
 Data File : VX022364.D  
 Acq On : 03 Jun 2021 14:26  
 Operator : JC/MD  
 Sample : M2572-09DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 48BR-20210528DL

Quant Time: Jun 04 03:50:54 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

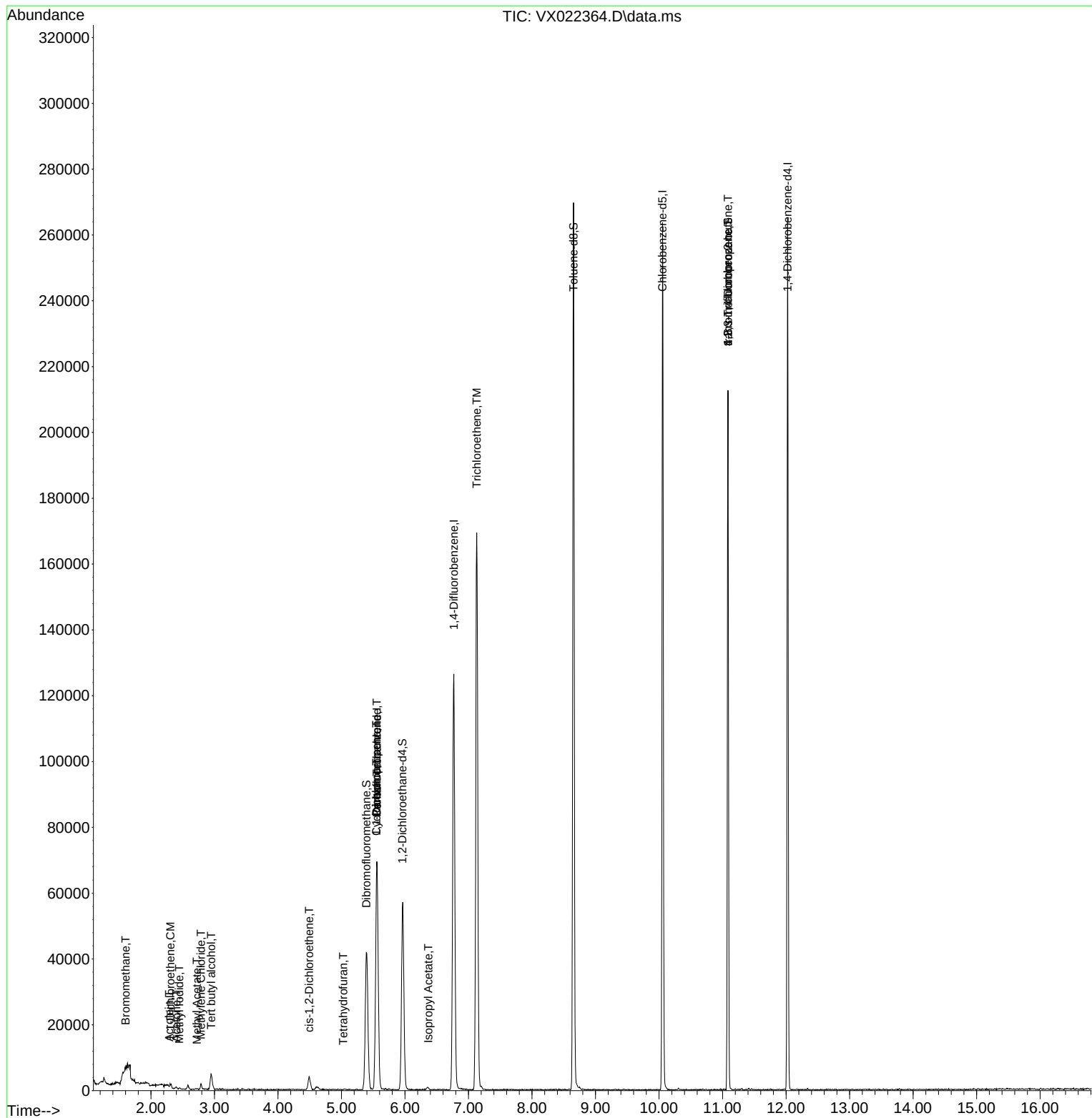
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 59276    | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 125348   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 115655   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 47815    | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 50802    | 55.56    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 111.12%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 36433    | 45.83    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 91.66%   |
| 50) Toluene-d8                | 8.653  | 98    | 156421   | 51.08    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 102.16%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 57594    | 50.89    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 101.78%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.599  | 94    | 267      | 0.56     | ug/l # | 59       |
| 10) Methyl Iodide             | 2.446  | 142   | 156      | 0.21     | ug/l # | 68       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 2902     | 13.88    | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.306  | 96    | 359      | 0.53     | ug/l   | 83       |
| 13) Acrolein                  | 2.288  | 56    | 33       | 0.24     | ug/l # | 14       |
| 16) Acetone                   | 2.398  | 43    | 699      | 1.76     | ug/l   | 99       |
| 18) Methyl Acetate            | 2.721  | 43    | 404      | 0.38     | ug/l # | 47       |
| 20) Methylene Chloride        | 2.788  | 84    | 710      | 0.80     | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 2422     | 2.70     | ug/l   | 93       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 80       | 0.21     | ug/l # | 27       |
| 31) Cyclohexane               | 5.550  | 56    | 1643     | 1.43     | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 5930     | 5.12     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 7094     | 6.26     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.366  | 43    | 488      | 0.21     | ug/l # | 57       |
| 44) Trichloroethene           | 7.128  | 130   | 62662    | 70.71    | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 29896    | 25.34    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 29896    | 60.05    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

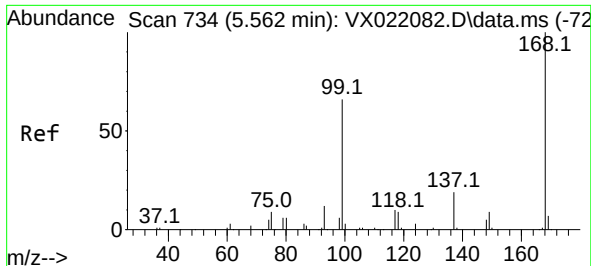
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

Quant Time: Jun 04 03:50:54 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

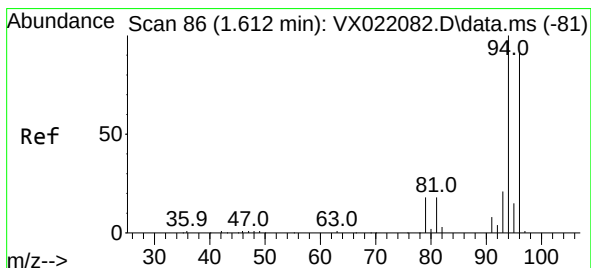
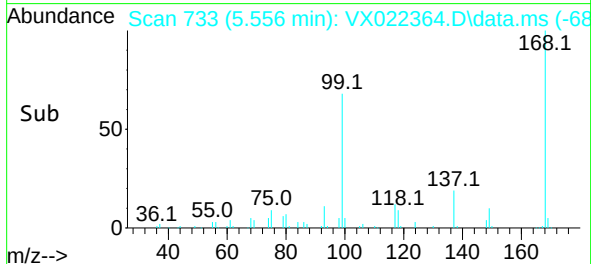
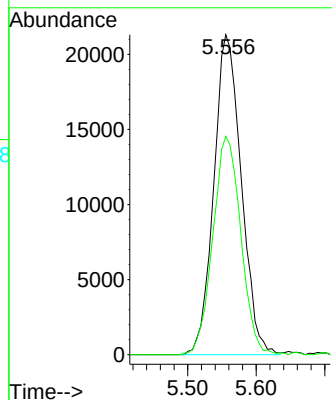
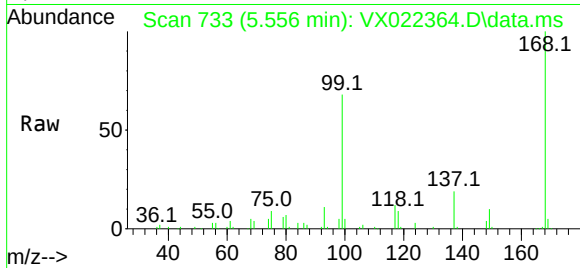




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.006 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

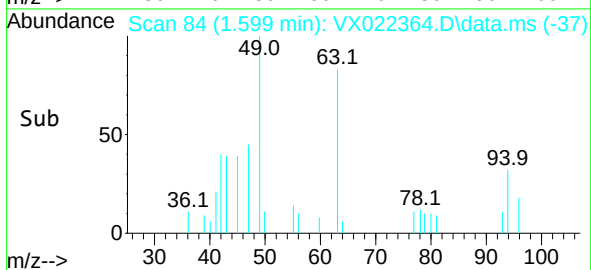
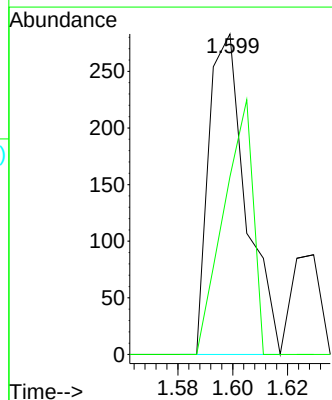
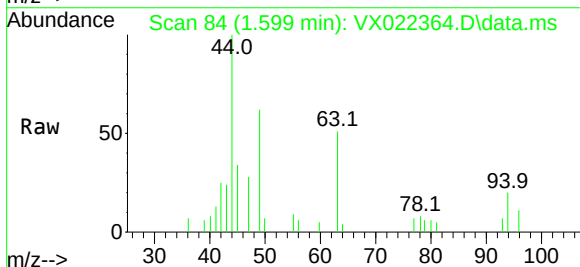
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

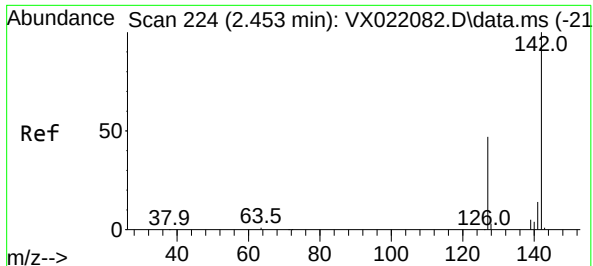
Tgt Ion:168 Resp: 59276  
Ion Ratio Lower Upper  
168 100  
99 68.2 45.8 68.6



#5  
Bromomethane  
Concen: 0.56 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. -0.013 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 94 Resp: 267  
Ion Ratio Lower Upper  
94 100  
96 55.5 76.4 114.6#

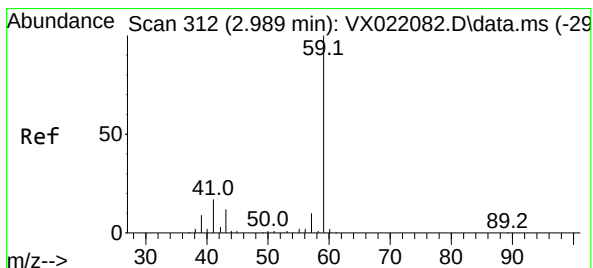
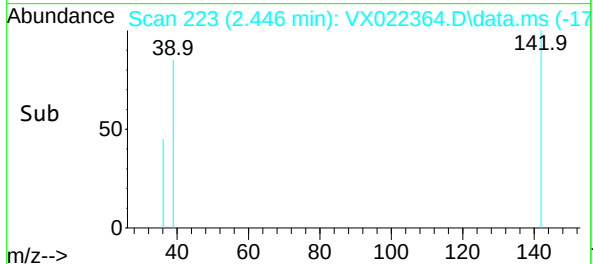
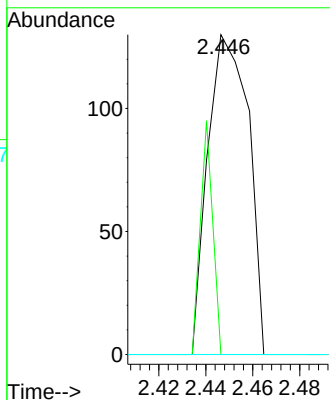
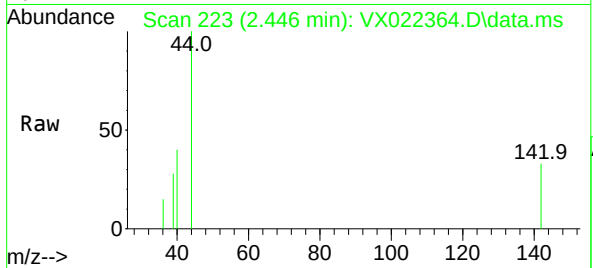




#10  
Methyl Iodide  
Concen: 0.21 ug/l  
RT: 2.446 min Scan# 223  
Delta R.T. -0.007 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

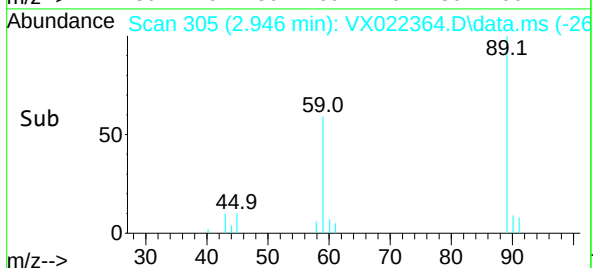
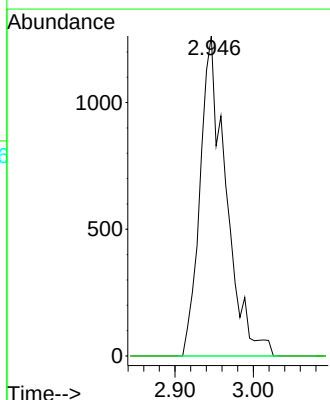
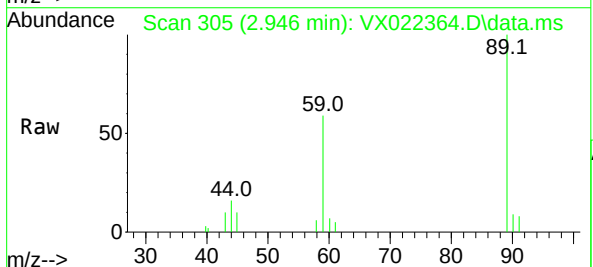
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

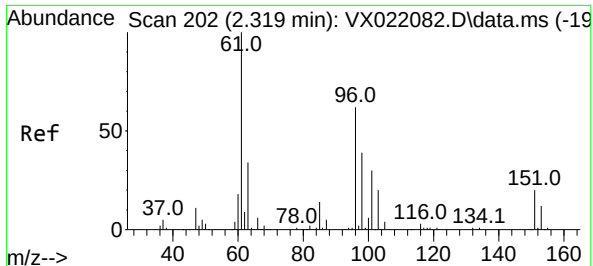
Tgt Ion:142 Resp: 156  
Ion Ratio Lower Upper  
142 100  
127 22.4 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 13.88 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.043 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 59 Resp: 2902  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 0.53 ug/l

RT: 2.306 min Scan# 200

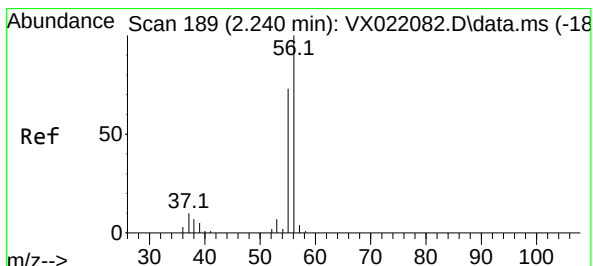
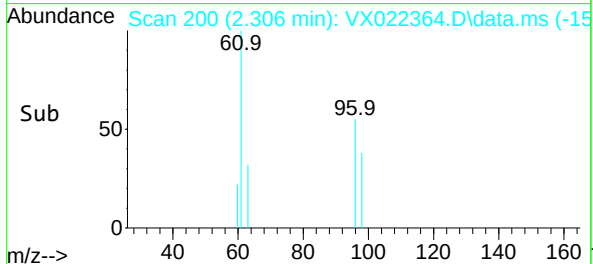
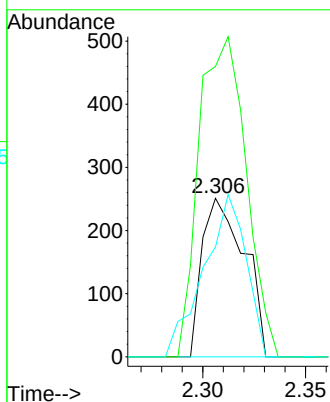
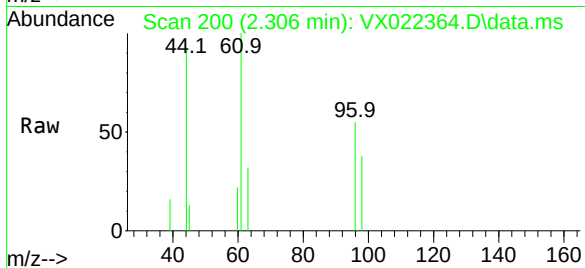
Delta R.T. -0.013 min

Lab File: VX022364.D

Acq: 03 Jun 2021 14:26

Tgt Ion: 96 Resp: 359

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 183.3 | 124.6 | 187.0 |
| 98  | 69.3  | 50.6  | 76.0  |



#13

Acrolein

Concen: 0.24 ug/l

RT: 2.288 min Scan# 197

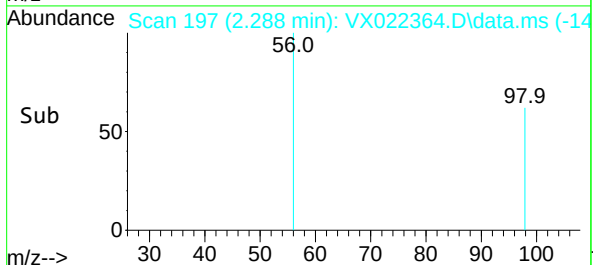
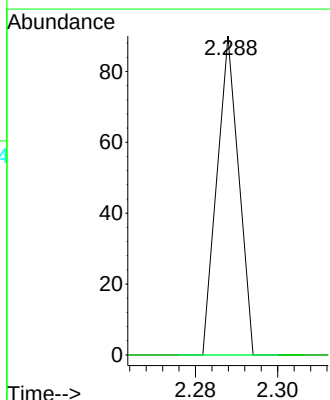
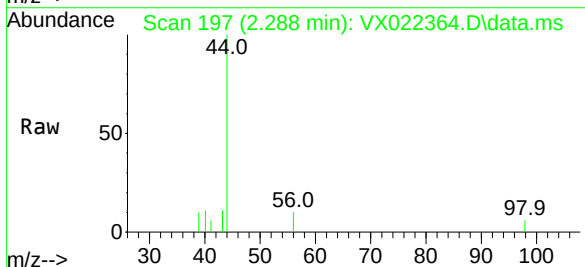
Delta R.T. 0.048 min

Lab File: VX022364.D

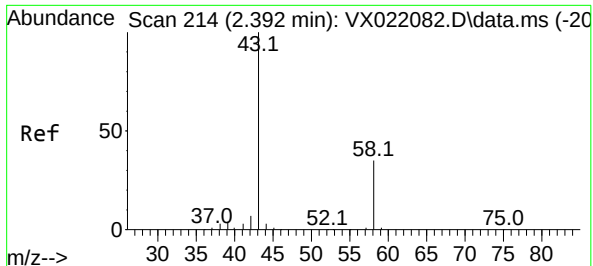
Acq: 03 Jun 2021 14:26

Tgt Ion: 56 Resp: 33

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 55  | 0.0   | 56.4  | 84.6# |



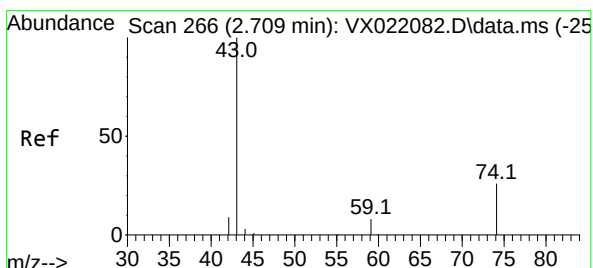
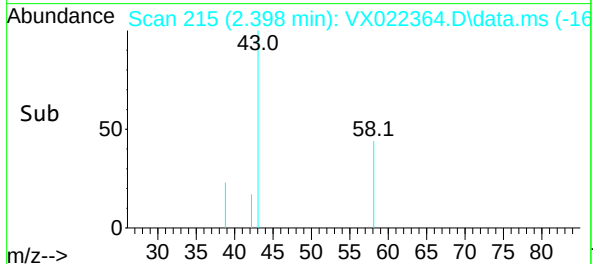
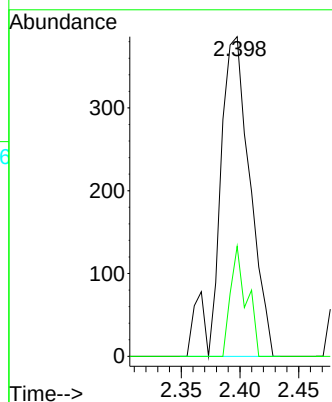
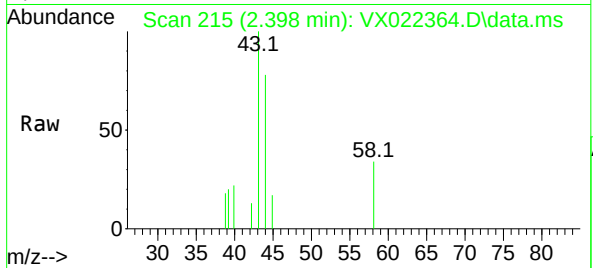
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL



#16  
Acetone  
Concen: 1.76 ug/l  
RT: 2.398 min Scan# 215  
Delta R.T. 0.006 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

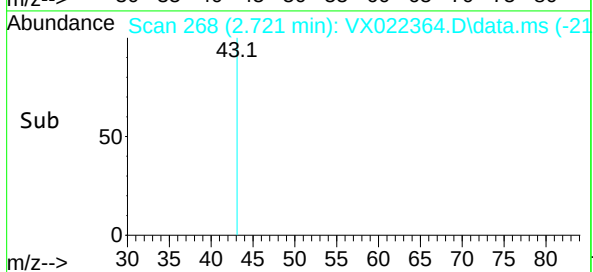
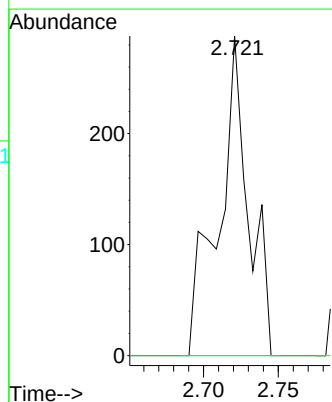
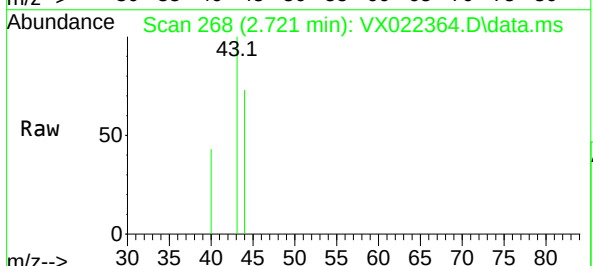
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

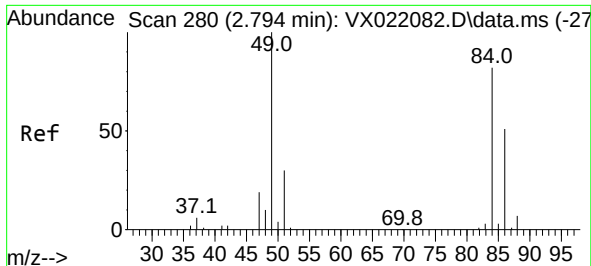
Tgt Ion: 43 Resp: 699  
Ion Ratio Lower Upper  
43 100  
58 34.5 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.38 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 43 Resp: 404  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#



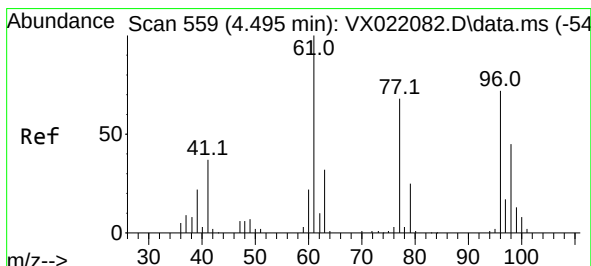
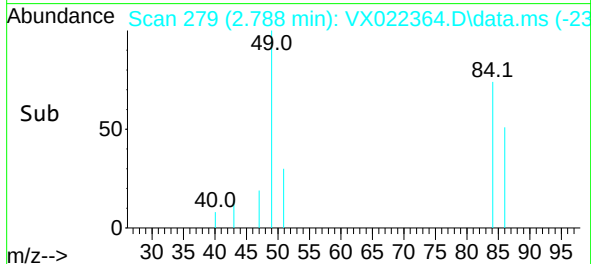
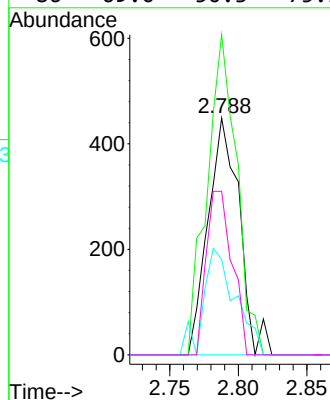
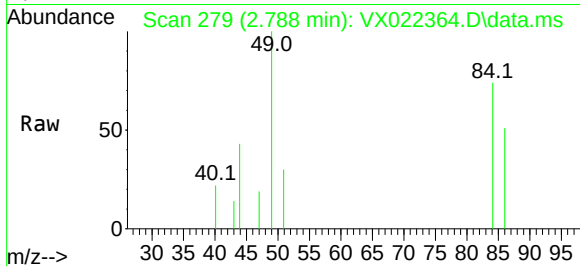


#20  
Methylene Chloride  
Concen: 0.80 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.006 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

Tgt Ion: 84 Resp: 710

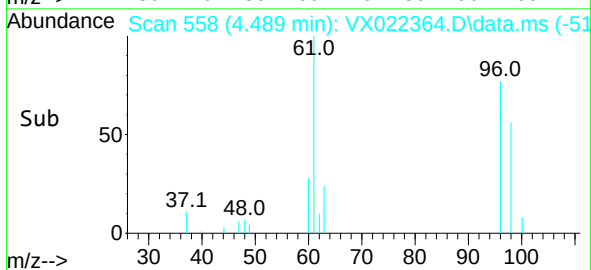
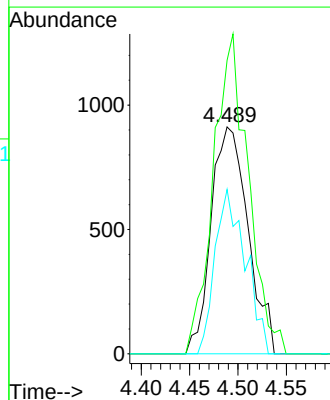
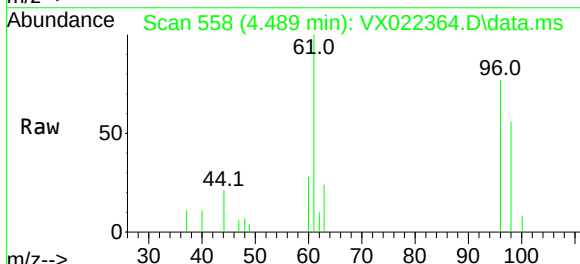
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 135.2 | 88.6  | 132.8# |
| 51  | 40.3  | 27.0  | 40.6   |
| 86  | 69.0  | 50.3  | 75.5   |

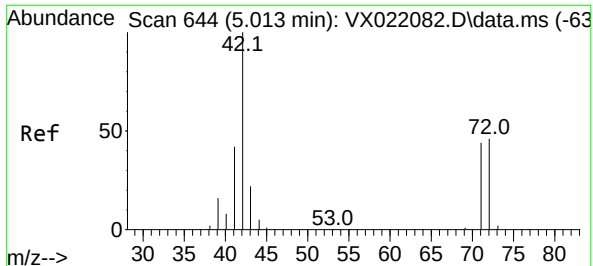


#27  
cis-1,2-Dichloroethene  
Concen: 2.70 ug/l  
RT: 4.489 min Scan# 558  
Delta R.T. -0.006 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 96 Resp: 2422

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 133.1 | 0.0   | 285.6 |
| 98  | 59.7  | 0.0   | 129.6 |





#29

Tetrahydrofuran

Concen: 0.21 ug/l

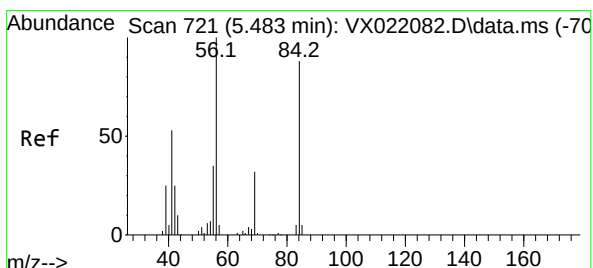
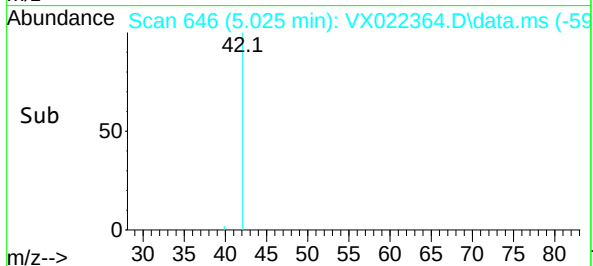
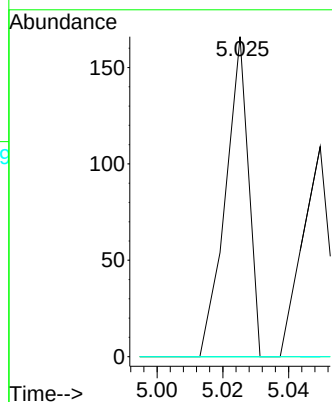
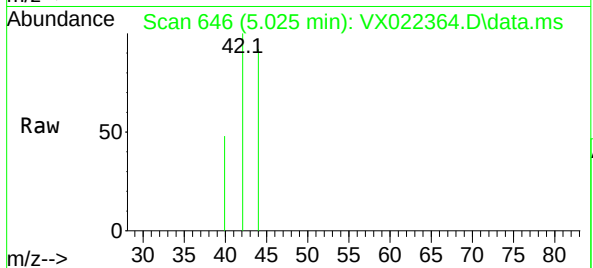
RT: 5.025 min Scan# 646

Delta R.T. 0.012 min

Lab File: VX022364.D

Acq: 03 Jun 2021 14:26

|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 80       |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 0.0 41.7 62.5# |
| 71          | 0.0 38.4 57.6# |



#31

Cyclohexane

Concen: 1.43 ug/l

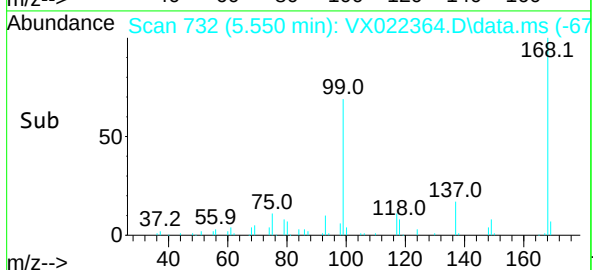
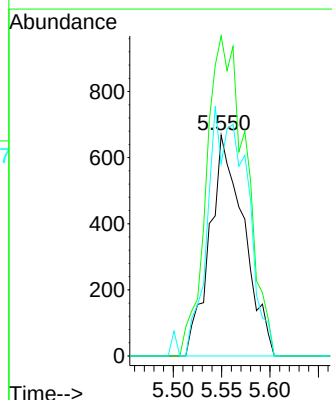
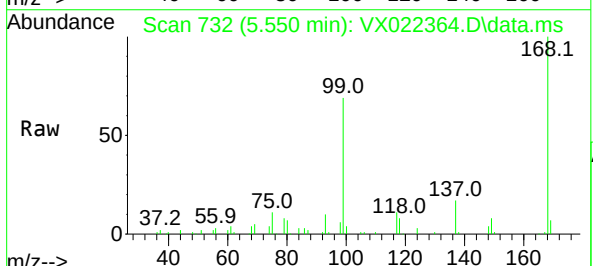
RT: 5.550 min Scan# 732

Delta R.T. 0.067 min

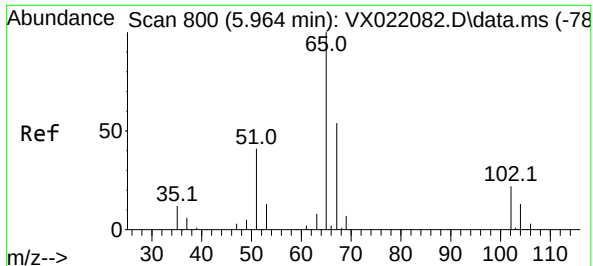
Lab File: VX022364.D

Acq: 03 Jun 2021 14:26

|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 1643       |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 144.9 25.3 37.9# |
| 84          | 87.0 71.4 107.0  |







#33

1,2-Dichloroethane-d4

Concen: 55.56 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX022364.D

Acq: 03 Jun 2021 14:26

Tgt Ion: 65 Resp: 50802

Ion Ratio Lower Upper

65 100

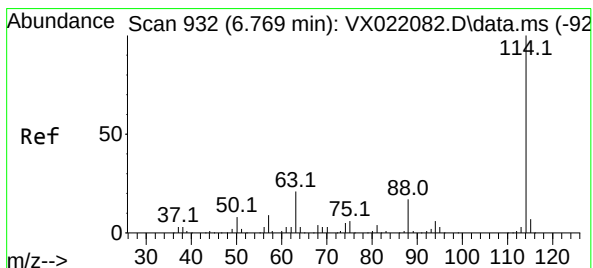
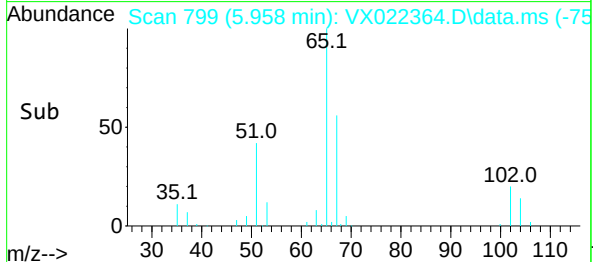
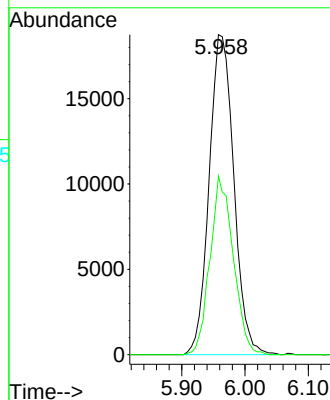
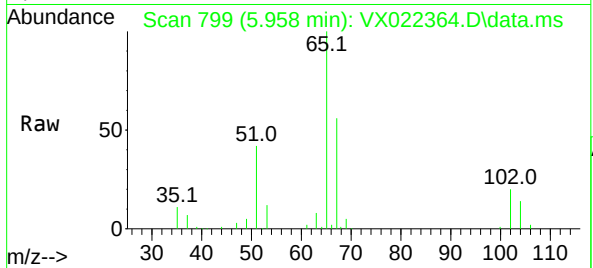
67 52.6 0.0 105.4

Instrument :

MSVOA\_X

ClientSampleId :

48BR-20210528DL



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX022364.D

Acq: 03 Jun 2021 14:26

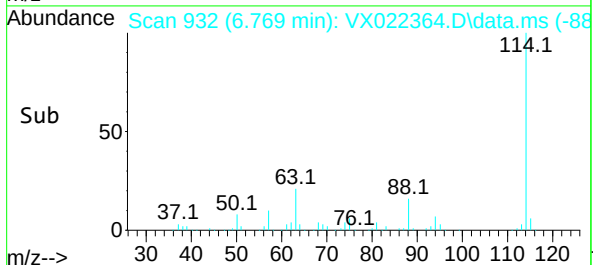
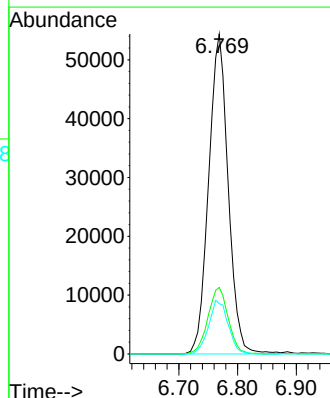
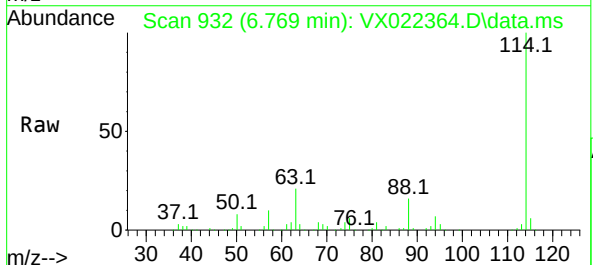
Tgt Ion: 114 Resp: 125348

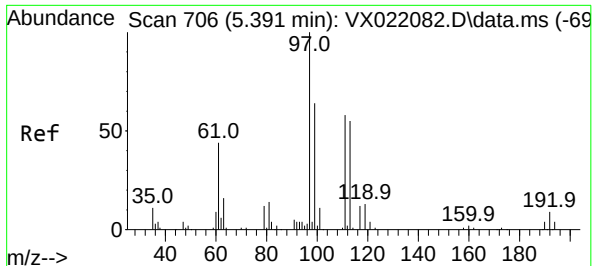
Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

88 15.7 0.0 32.8

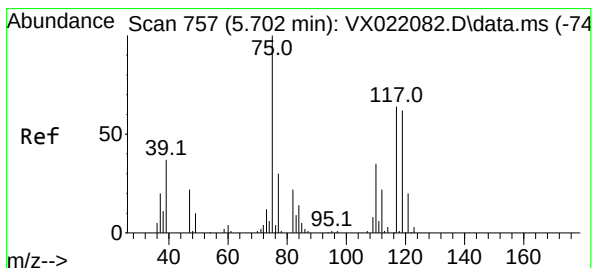
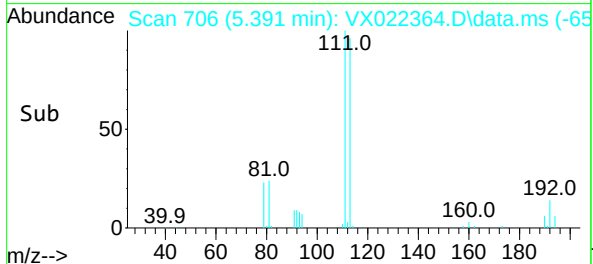
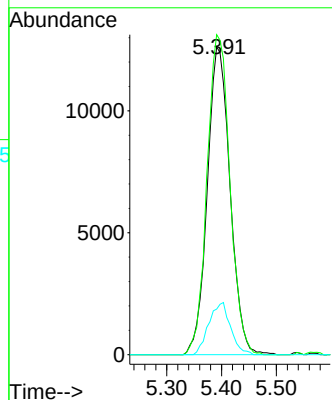
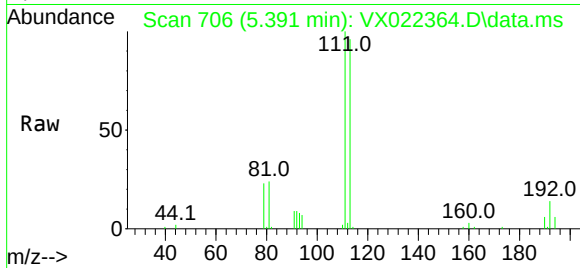




#35  
Dibromofluoromethane  
Concen: 45.83 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

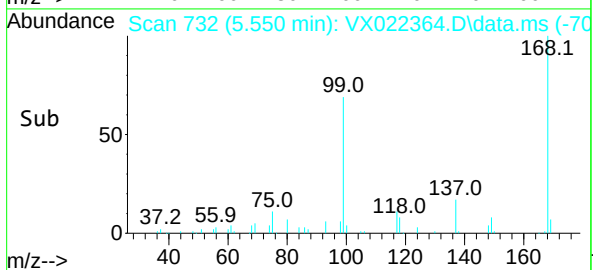
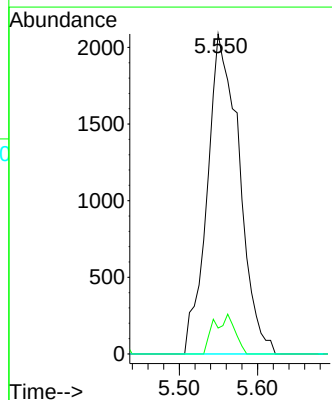
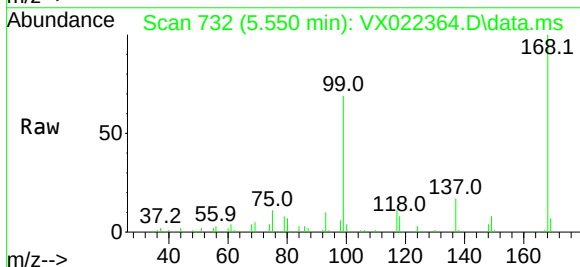
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

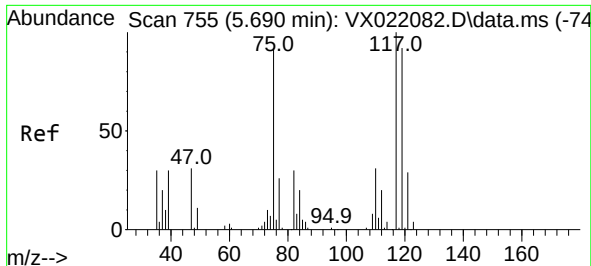
Tgt Ion:113 Resp: 36433  
Ion Ratio Lower Upper  
113 100  
111 104.4 81.9 122.9  
192 16.1 16.7 25.1#



#36  
1,1-Dichloropropene  
Concen: 5.12 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.152 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

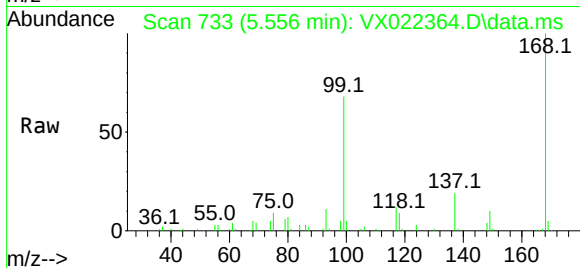
Tgt Ion: 75 Resp: 5930  
Ion Ratio Lower Upper  
75 100  
110 8.1 18.1 54.4#  
77 0.0 25.3 37.9#



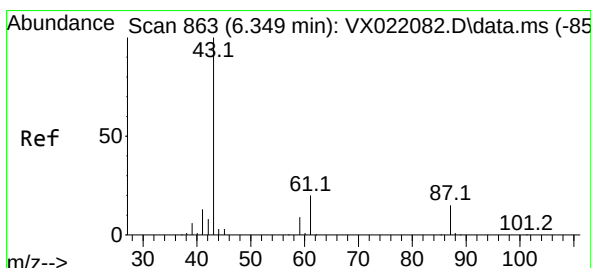
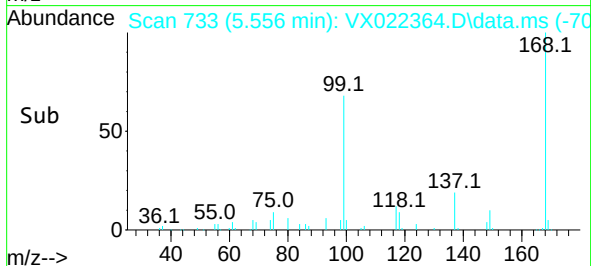
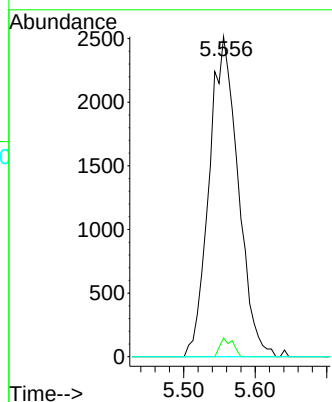


#38  
Carbon Tetrachloride  
Concen: 6.26 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

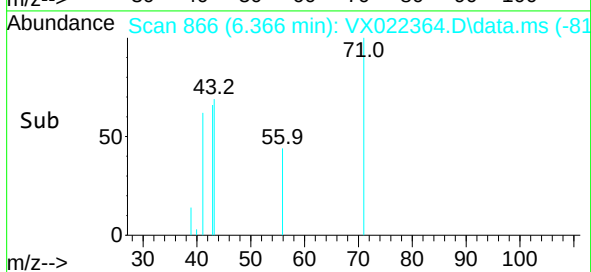
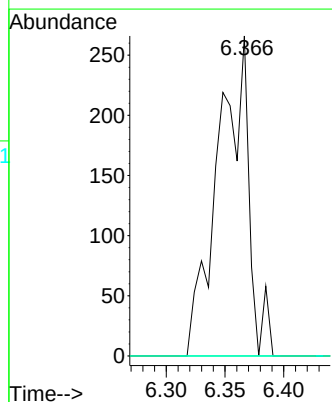
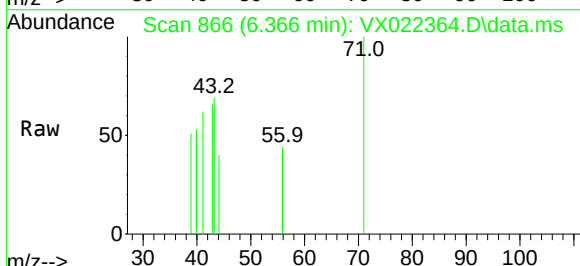


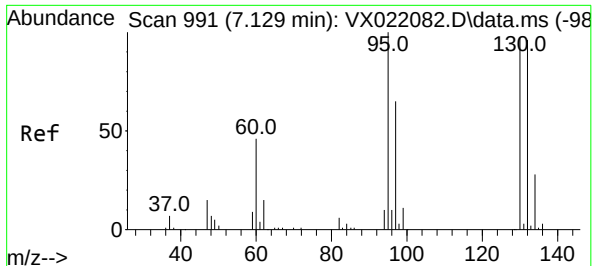
Tgt Ion:117 Resp: 7094  
Ion Ratio Lower Upper  
117 100  
119 5.8 76.2 114.2#  
121 0.0 24.8 37.2#



#43  
Isopropyl Acetate  
Concen: 0.21 ug/l  
RT: 6.366 min Scan# 866  
Delta R.T. 0.017 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 43 Resp: 488  
Ion Ratio Lower Upper  
43 100  
61 0.0 18.2 27.4#  
87 0.0 12.5 18.7#

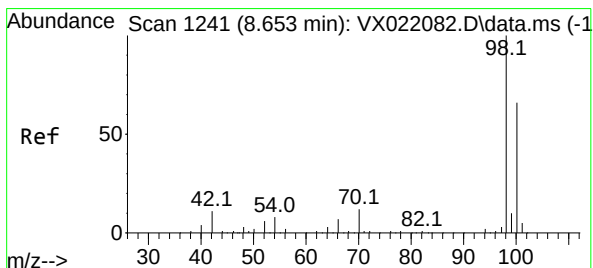
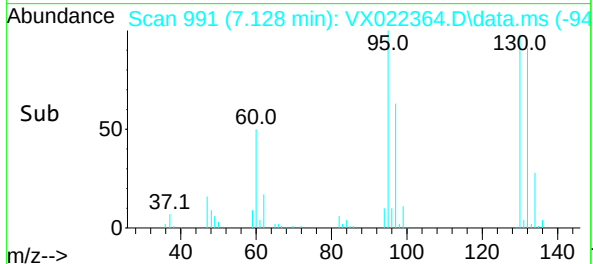
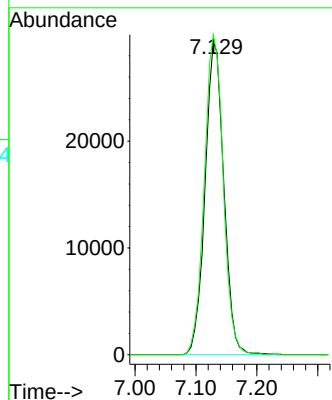
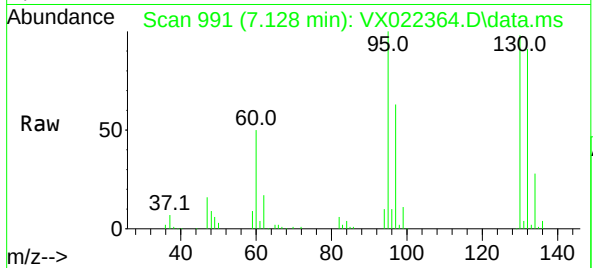




#44  
Trichloroethene  
Concen: 70.71 ug/l  
RT: 7.128 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

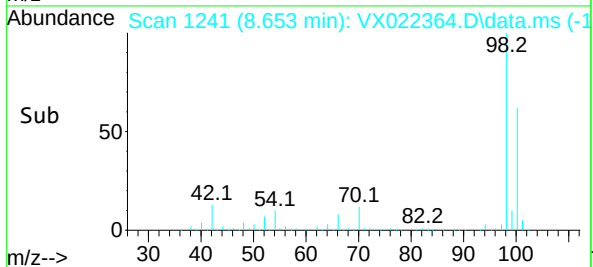
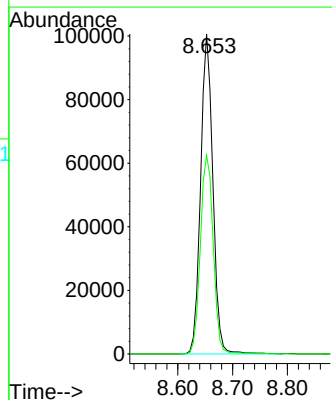
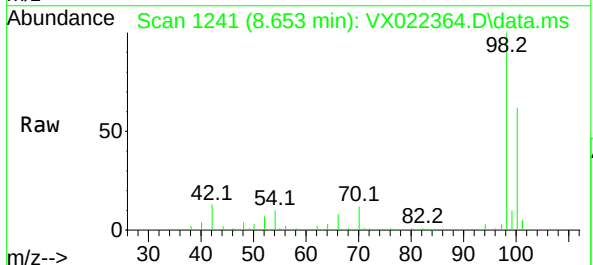
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

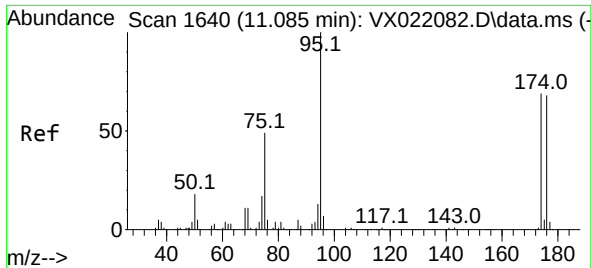
Tgt Ion:130 Resp: 62662  
Ion Ratio Lower Upper  
130 100  
95 102.3 0.0 198.0



#50  
Toluene-d8  
Concen: 51.08 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 98 Resp: 156421  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.9 77.9

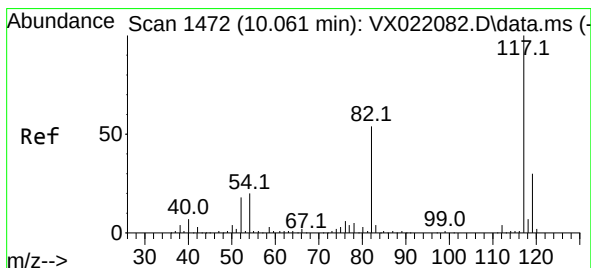
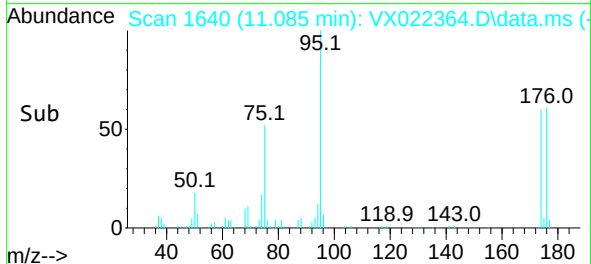
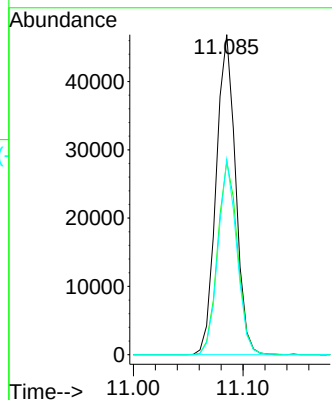
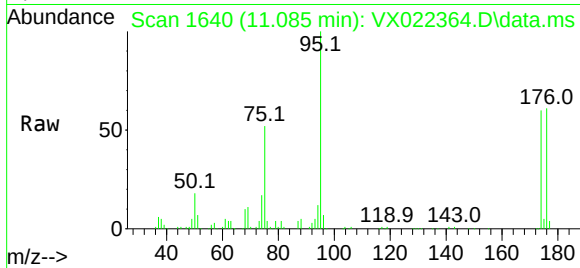




#62  
4-Bromofluorobenzene  
Concen: 50.89 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

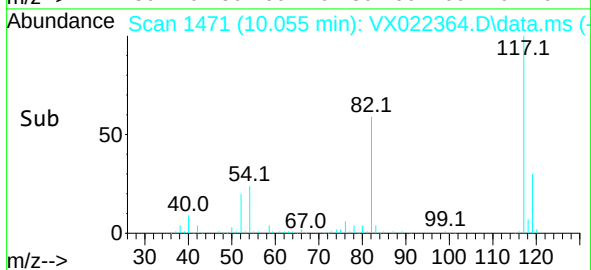
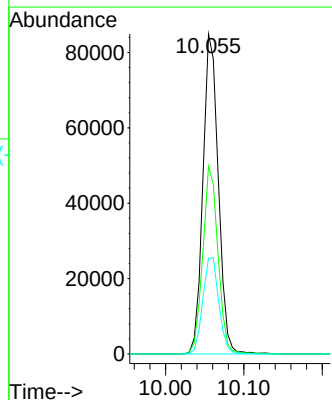
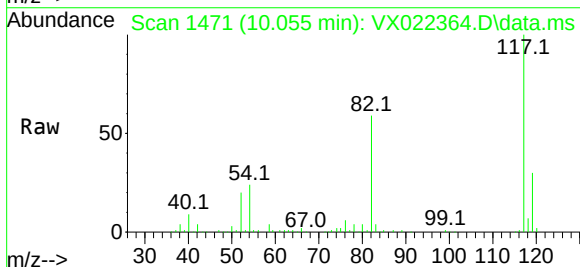
Instrument :  
MSVOA\_X  
ClientSampleId :  
48BR-20210528DL

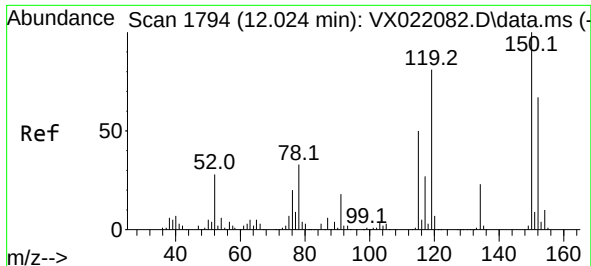
Tgt Ion: 95 Resp: 57594  
Ion Ratio Lower Upper  
95 100  
174 62.0 0.0 154.6  
176 59.3 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022364.D  
Acq: 03 Jun 2021 14:26

Tgt Ion: 117 Resp: 115655  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.4 71.2  
119 29.9 26.6 39.8

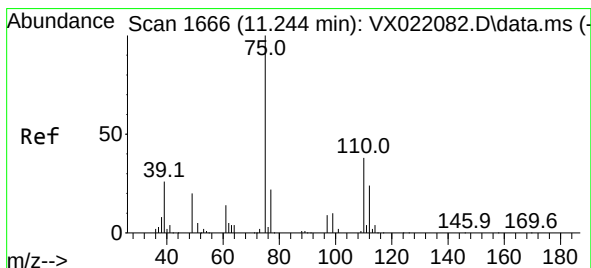
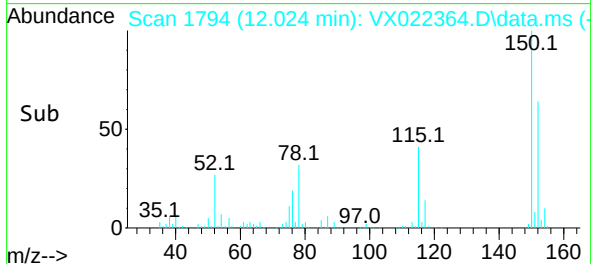
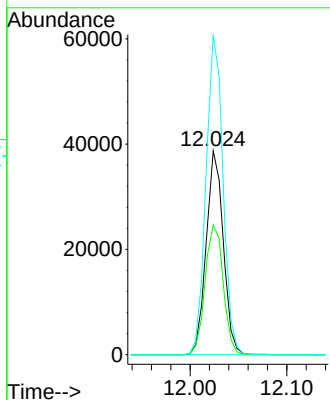
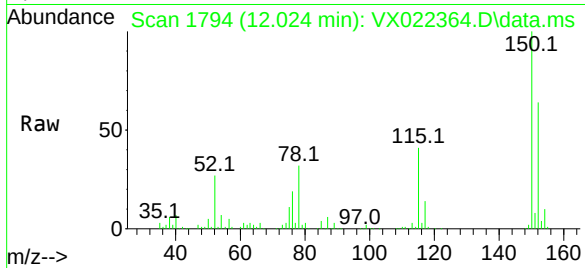




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.024 min Scan# 1794  
 Delta R.T. -0.000 min  
 Lab File: VX022364.D  
 Acq: 03 Jun 2021 14:26

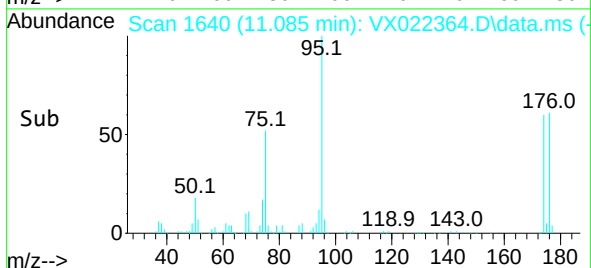
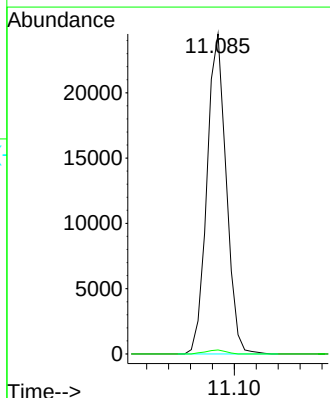
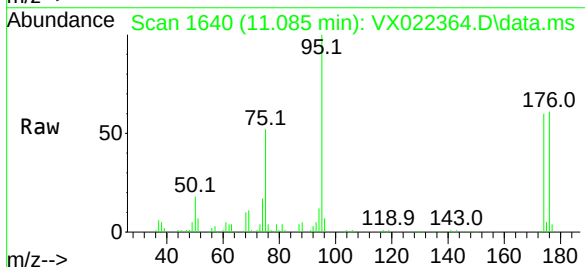
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 48BR-20210528DL

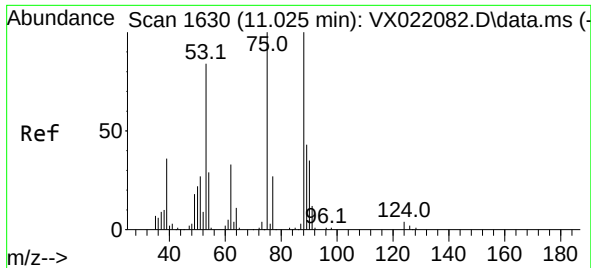
Tgt Ion:152 Resp: 47815  
 Ion Ratio Lower Upper  
 152 100  
 115 67.0 41.1 123.3  
 150 155.4 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 25.34 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX022364.D  
 Acq: 03 Jun 2021 14:26

Tgt Ion: 75 Resp: 29896  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 60.05 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.060 min  
 Lab File: VX022364.D  
 Acq: 03 Jun 2021 14:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 48BR-20210528DL

Tgt Ion: 75 Resp: 29896  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

