

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081321\  
 Data File : VX023714.D  
 Acq On : 14 Aug 2021 01:39  
 Operator : JC/MD  
 Sample : M3394-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 14 05:34:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 06:05:38 2021  
 Response via : Initial Calibration

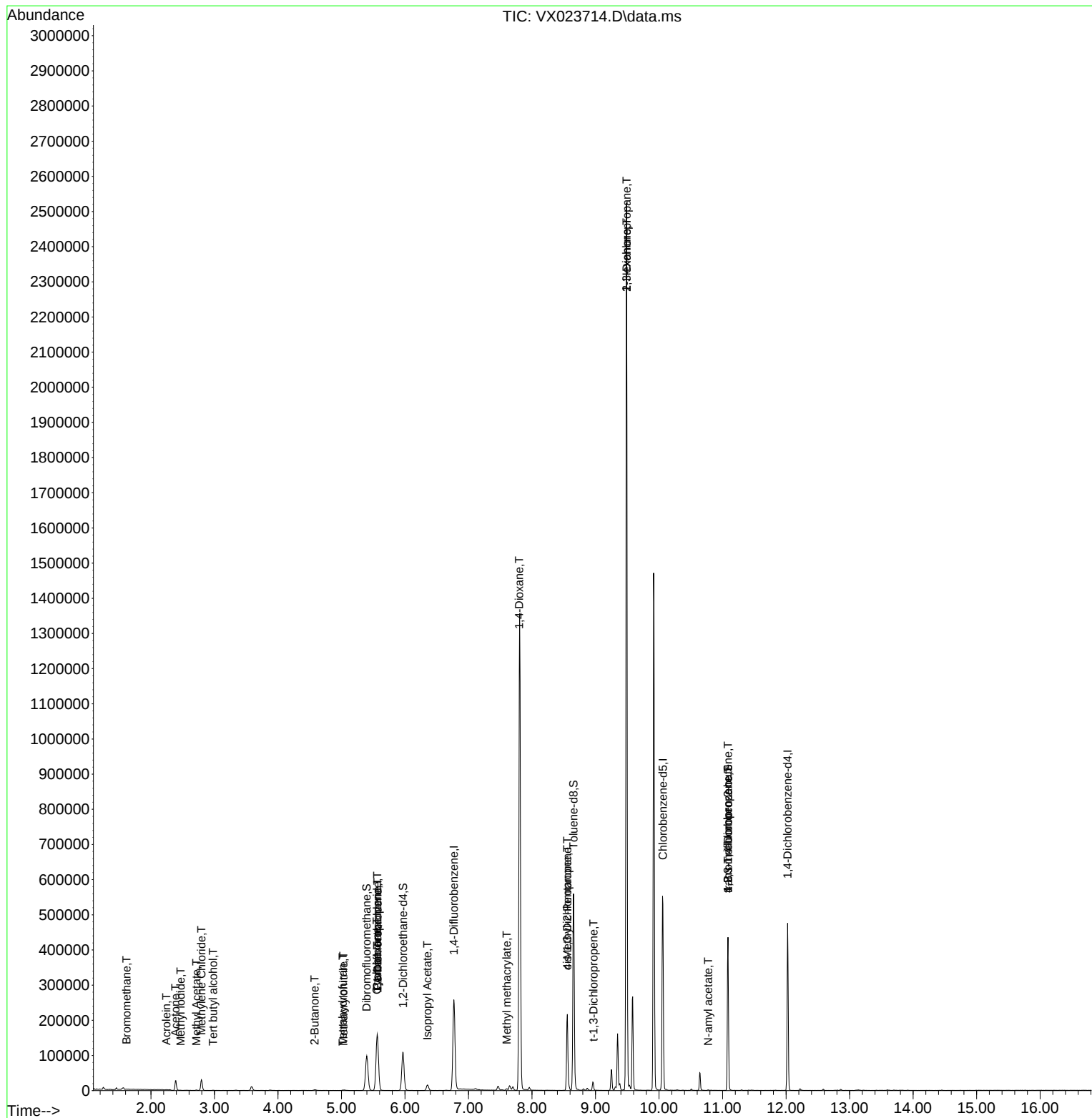
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.562  | 168            | 148321   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114            | 253958   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061 | 117            | 244041   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 95634    | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65             | 103668   | 56.031     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 112.060% |        |          |
| 35) Dibromofluoromethane      | 5.397  | 113            | 82859    | 52.183     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 104.360% |        |          |
| 50) Toluene-d8                | 8.653  | 98             | 320466   | 54.932     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 109.860% |        |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95             | 108020   | 54.453     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 108.900% |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 5) Bromomethane               | 1.617  | 94             | 539      | 0.564      | ug/l   | 97       |
| 10) Methyl Iodide             | 2.465  | 142            | 467      | 0.254      | ug/l # | 88       |
| 11) Tert butyl alcohol        | 2.977  | 59             | 693      | 1.640      | ug/l # | 73       |
| 13) Acrolein                  | 2.239  | 56             | 94       | 1.799      | ug/l # | 1        |
| 16) Acetone                   | 2.385  | 43             | 29694    | 32.717     | ug/l   | 91       |
| 18) Methyl Acetate            | 2.715  | 43             | 1683     | 0.780      | ug/l # | 81       |
| 20) Methylene Chloride        | 2.794  | 84             | 13162    | 7.456      | ug/l   | 96       |
| 25) 2-Butanone                | 4.574  | 43             | 2101     | 1.491      | ug/l # | 84       |
| 29) Tetrahydrofuran           | 5.019  | 42             | 638      | 0.691      | ug/l # | 45       |
| 31) Cyclohexane               | 5.556  | 56             | 3192     | 1.165      | ug/l # | 20       |
| 36) 1,1-Dichloropropene       | 5.568  | 75             | 12096    | 5.265      | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.562  | 117            | 14658    | 6.274      | ug/l # | 16       |
| 41) Methacrylonitrile         | 5.031  | 41             | 828      | 0.541      | ug/l # | 34       |
| 43) Isopropyl Acetate         | 6.354  | 43             | 21470    | 4.783      | ug/l   | 94       |
| 48) Methyl methacrylate       | 7.604  | 41             | 6961     | 3.349      | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.799  | 88             | 157      | 3.547      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555  | 43             | 76448    | 27.847     | ug/l # | 45       |
| 53) t-1,3-Dichloropropene     | 8.970  | 75             | 57       | 1.836      | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.555  | 75             | 31589    | 11.504     | ug/l # | 72       |
| 57) 1,3-Dichloropropane       | 9.488  | 76             | 20514    | 7.065      | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488  | 43             | 298355   | 143.115    | ug/l # | 43       |
| 74) N-amyl acetate            | 10.774 | 43             | 1198     | 0.364      | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75             | 57125    | 27.144     | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75             | 57125    | 72.988     | ug/l # | 12       |

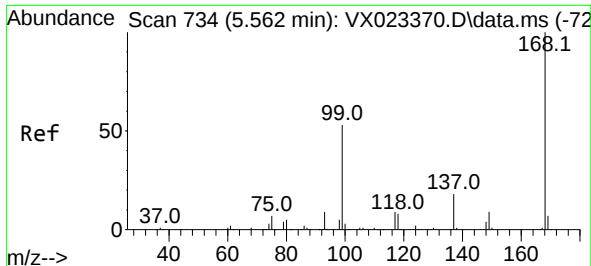
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081321\  
Data File : VX023714.D  
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Sample : M3394-11  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Aug 14 05:34:41 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 06:05:38 2021  
Response via : Initial Calibration

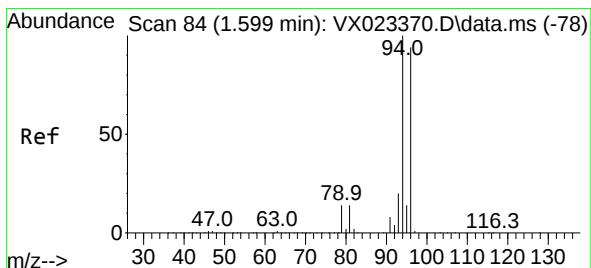
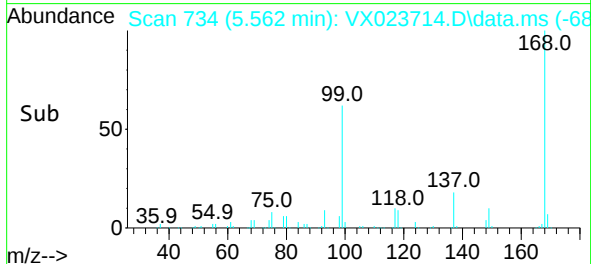
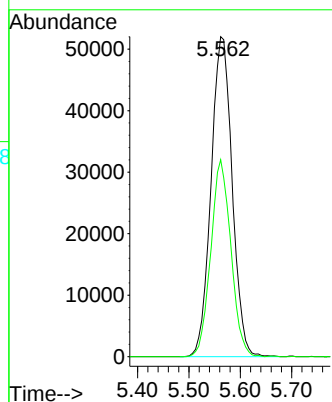
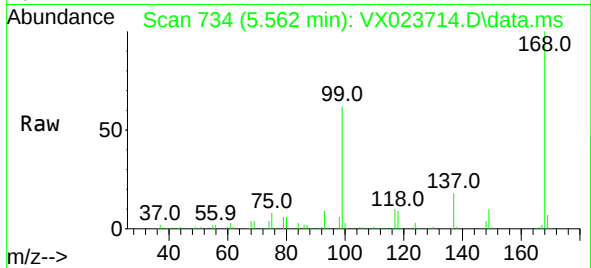




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

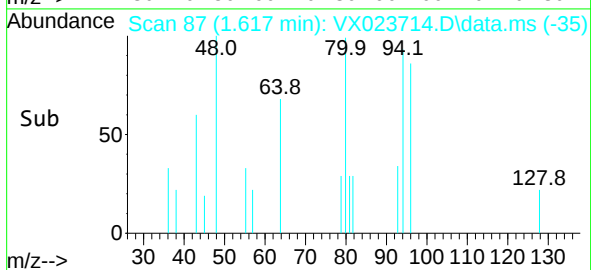
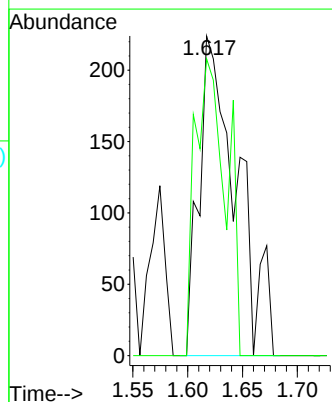
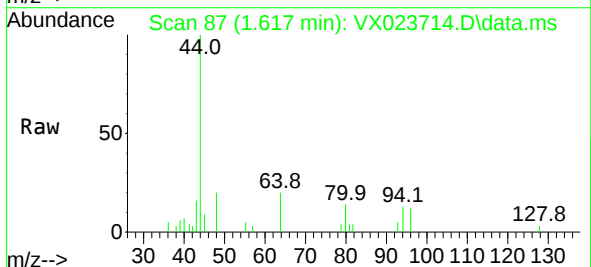
Instrument :  
MSVOA\_X  
ClientSampled :

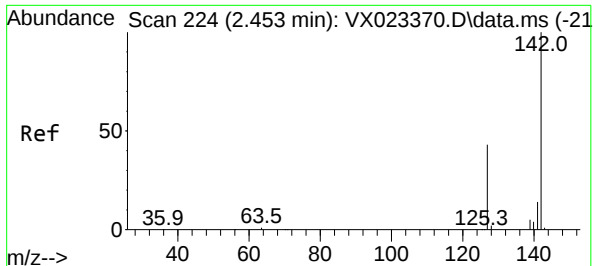
Tgt Ion:168 Resp: 148321  
Ion Ratio Lower Upper  
168 100  
99 61.5 45.8 68.6



#5  
Bromomethane  
Concen: 0.564 ug/l  
RT: 1.617 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

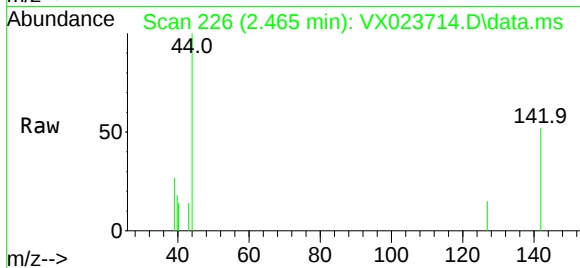
Tgt Ion: 94 Resp: 539  
Ion Ratio Lower Upper  
94 100  
96 92.9 76.4 114.6



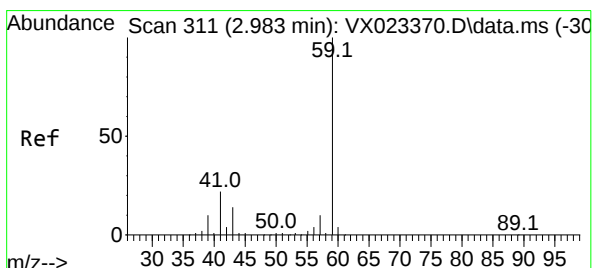
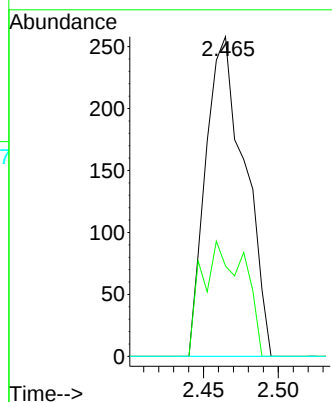
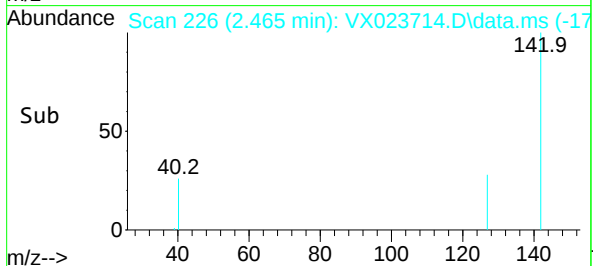


#10  
Methyl Iodide  
Concen: 0.254 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

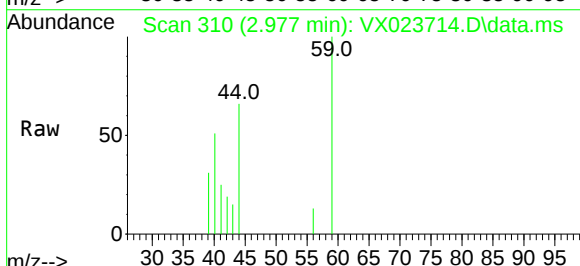
Instrument :  
MSVOA\_X  
ClientSampleId :



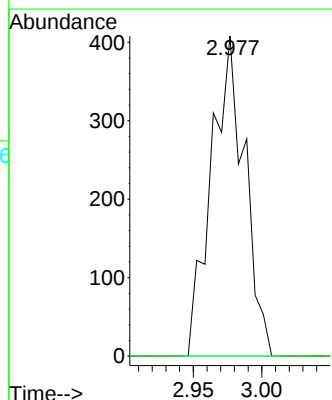
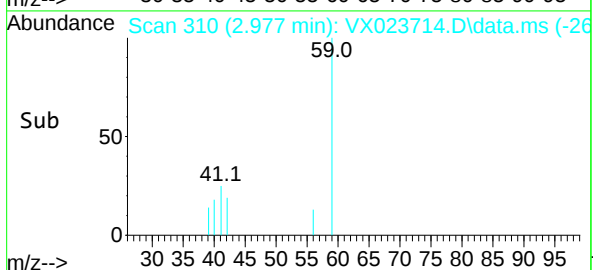
Tgt Ion:142 Resp: 467  
Ion Ratio Lower Upper  
142 100  
127 39.0 33.3 49.9  
141 0.0 11.4 17.0#

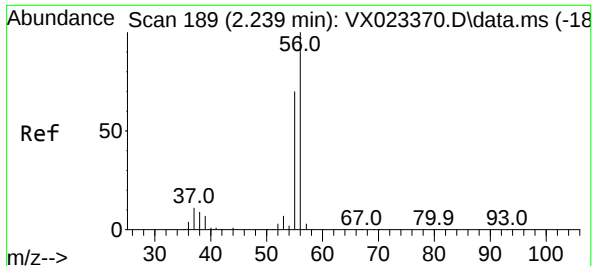


#11  
Tert butyl alcohol  
Concen: 1.640 ug/l  
RT: 2.977 min Scan# 310  
Delta R.T. -0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39



Tgt Ion: 59 Resp: 693  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

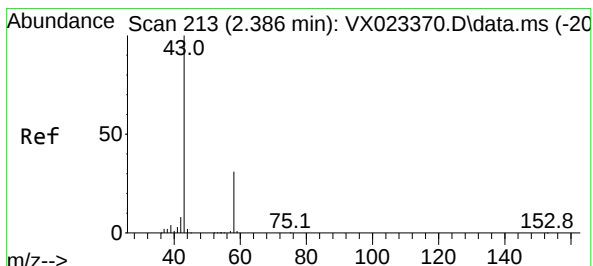
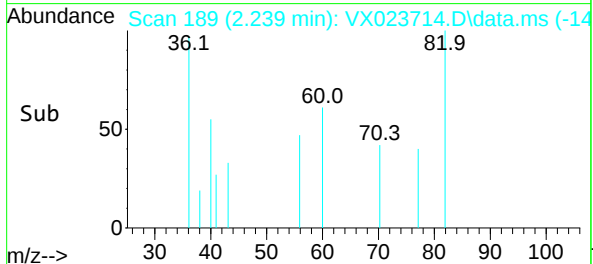
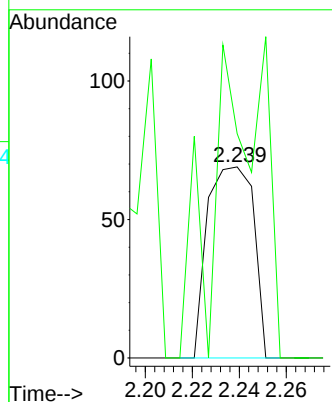
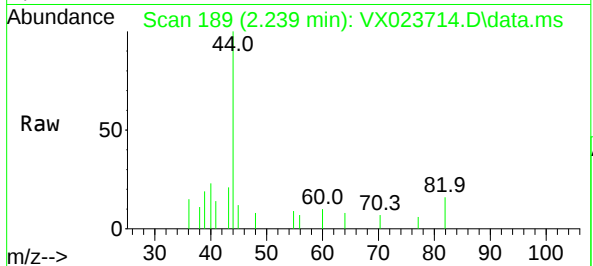




#13  
Acrolein  
Concen: 1.799 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. 0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

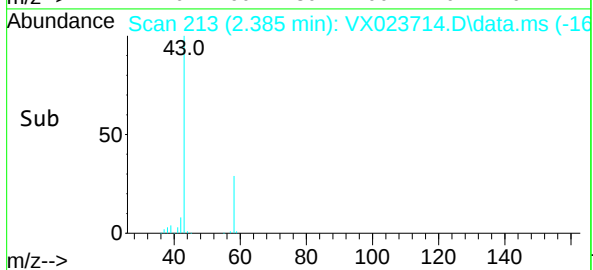
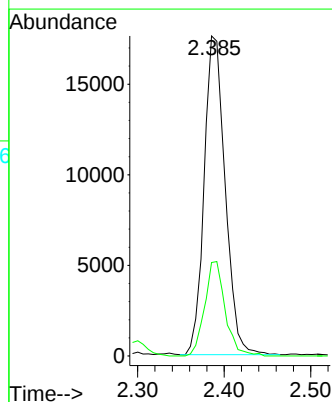
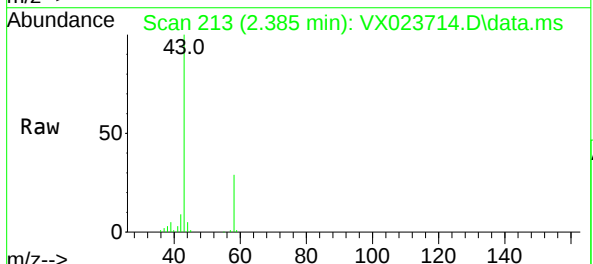
Instrument :  
MSVOA\_X  
ClientSampleId :

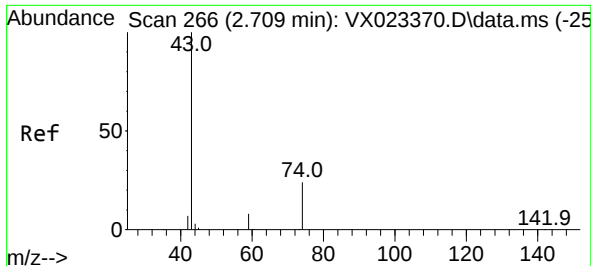
Tgt Ion: 56 Resp: 94  
Ion Ratio Lower Upper  
56 100  
55 177.7 56.4 84.6#



#16  
Acetone  
Concen: 32.717 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.001 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 43 Resp: 29694  
Ion Ratio Lower Upper  
43 100  
58 29.3 27.8 41.8

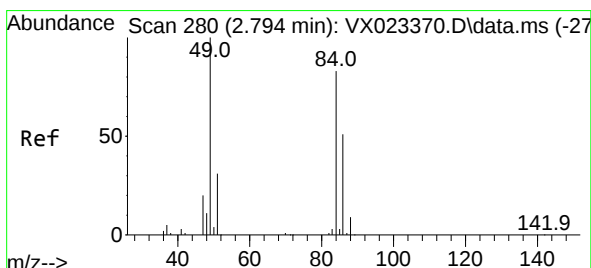
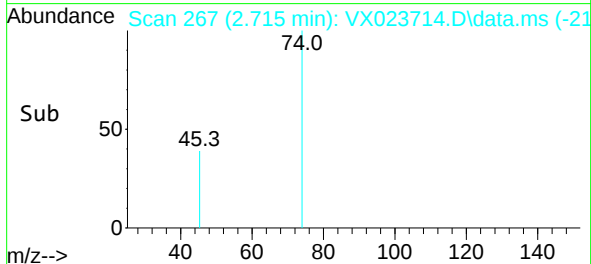
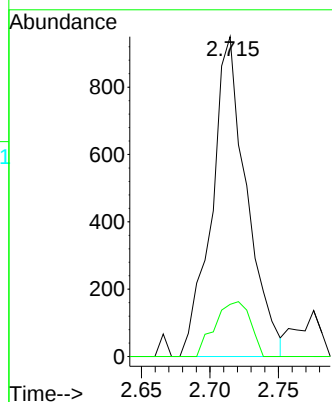
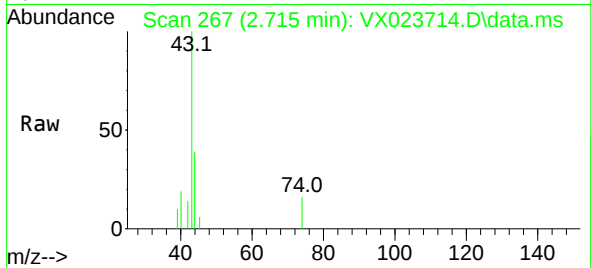




#18  
Methyl Acetate  
Concen: 0.780 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

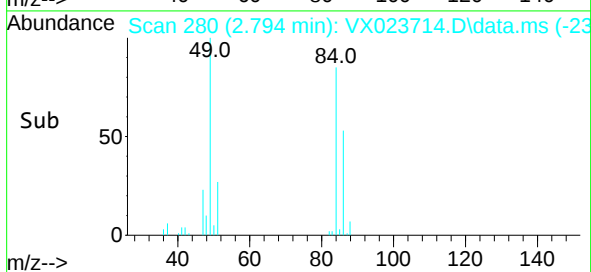
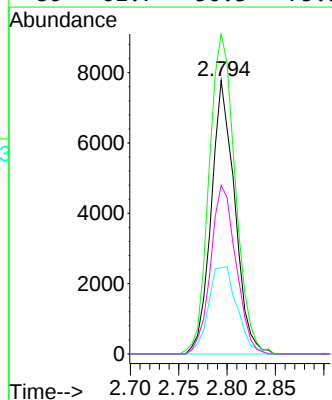
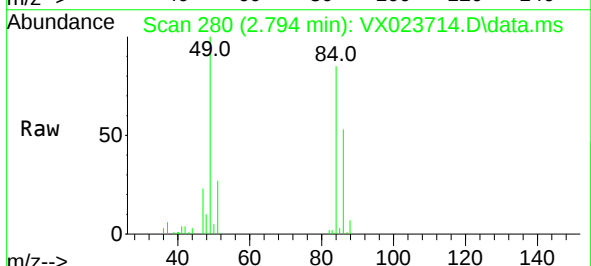
Instrument :  
MSVOA\_X  
ClientSampled :

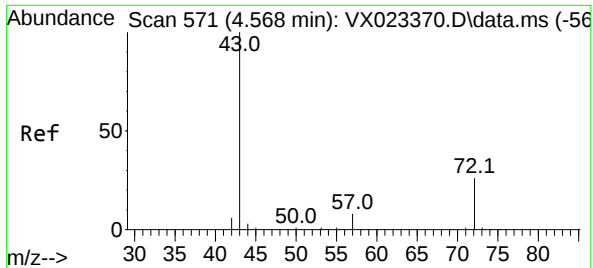
Tgt Ion: 43 Resp: 1683  
Ion Ratio Lower Upper  
43 100  
74 17.3 21.9 32.9#



#20  
Methylene Chloride  
Concen: 7.456 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. -0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 84 Resp: 13162  
Ion Ratio Lower Upper  
84 100  
49 117.1 88.6 132.8  
51 31.5 27.0 40.6  
86 61.7 50.3 75.5

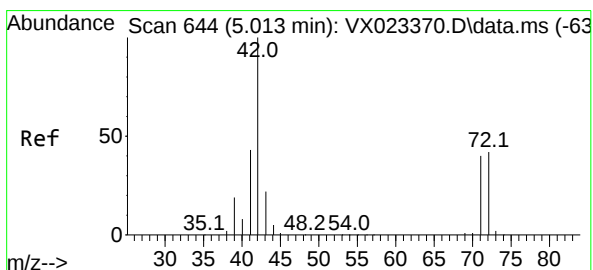
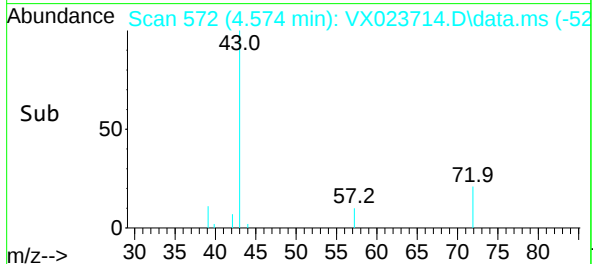
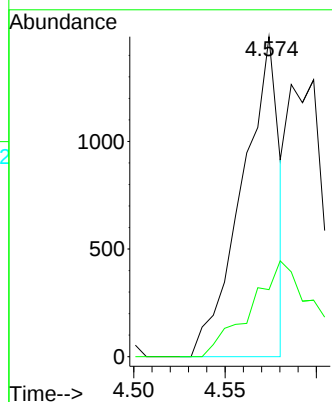
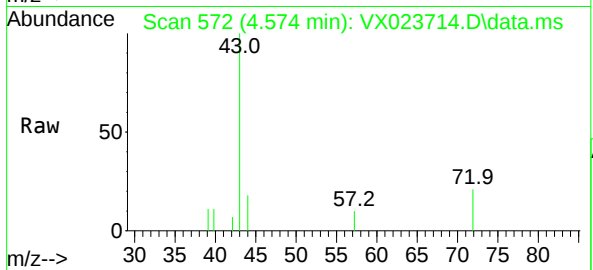




#25  
2-Butanone  
Concen: 1.491 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

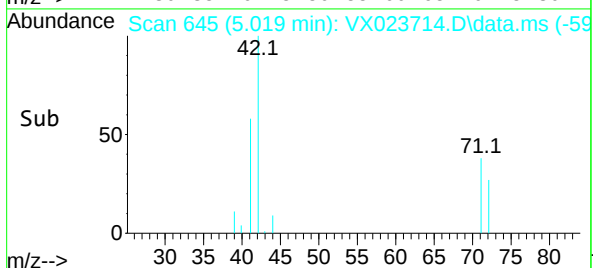
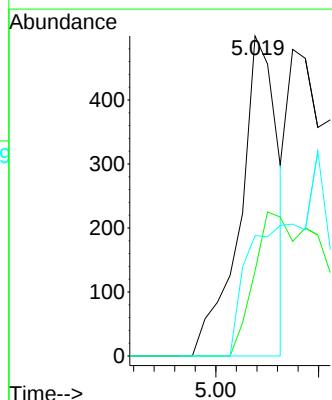
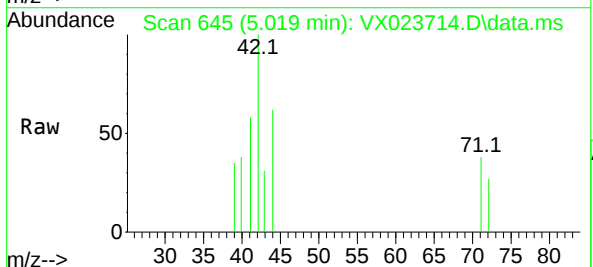
Instrument :  
MSVOA\_X  
ClientSampled :

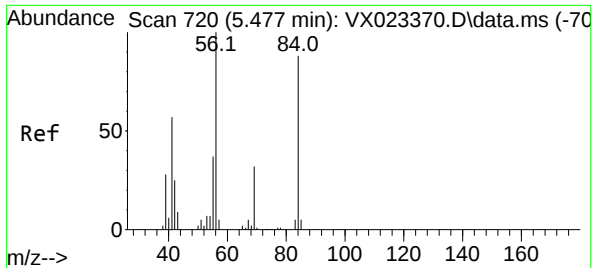
Tgt Ion: 43 Resp: 2101  
Ion Ratio Lower Upper  
43 100  
72 20.9 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 0.691 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 42 Resp: 638  
Ion Ratio Lower Upper  
42 100  
72 80.9 41.7 62.5#  
71 0.0 38.4 57.6#

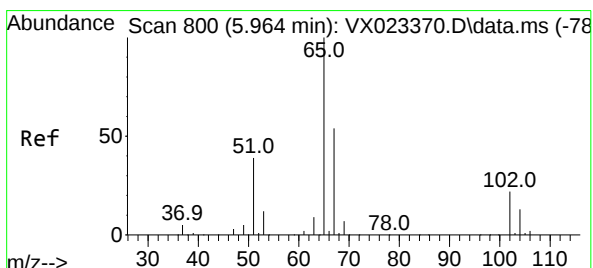
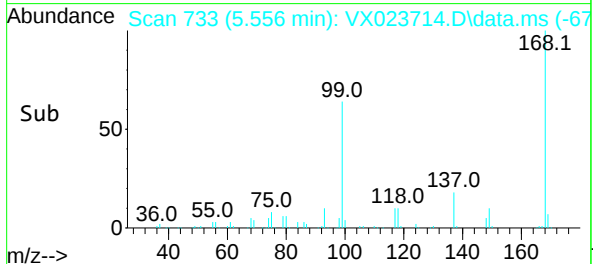
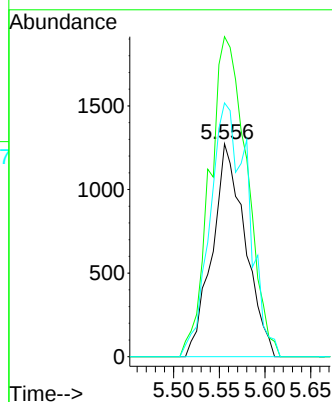
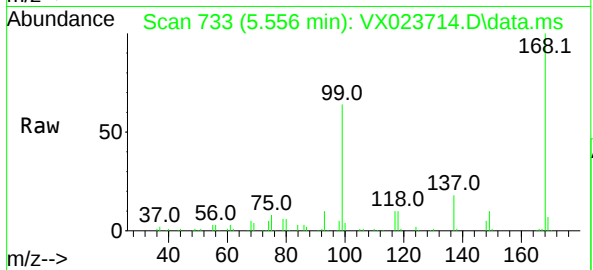




#31  
Cyclohexane  
Concen: 1.165 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.079 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

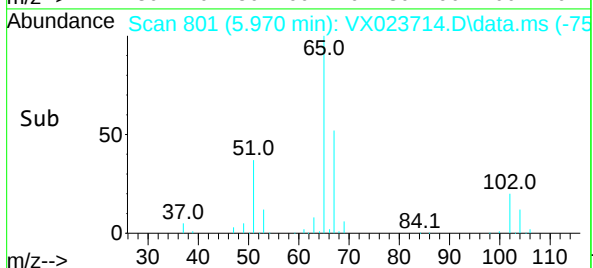
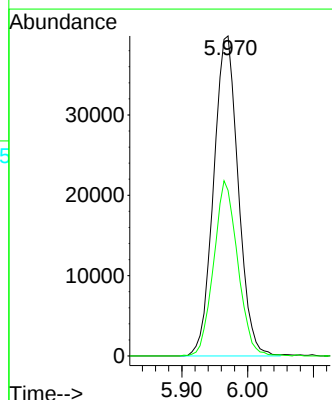
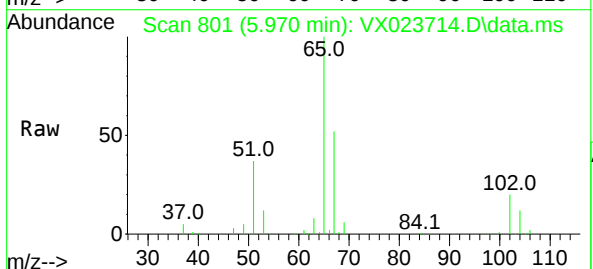
Instrument :  
MSVOA\_X  
ClientSampleId :

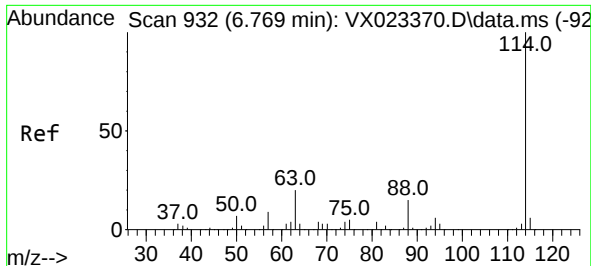
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Ion Ratio Lower Upper  
56 100  
69 150.4 25.3 37.9#  
84 119.2 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 56.031 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 65 Resp: 103668  
Ion Ratio Lower Upper  
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67 53.5 0.0 105.4

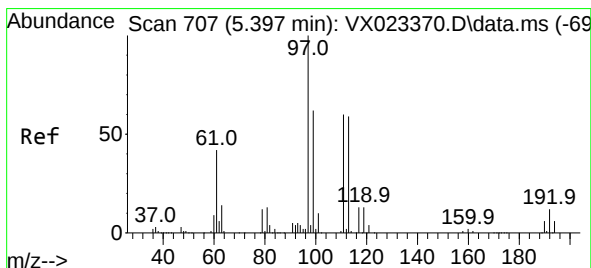
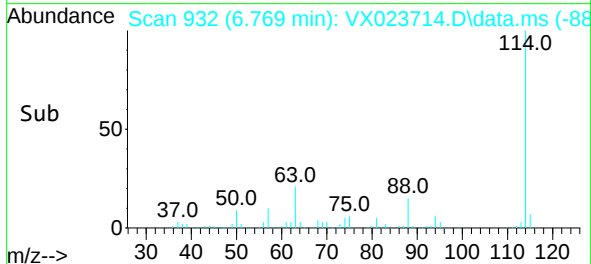
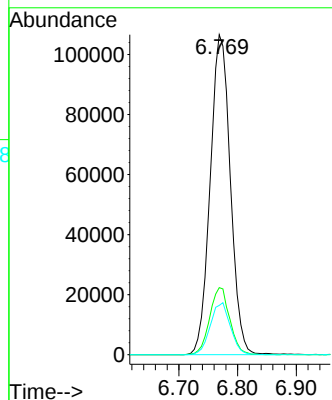
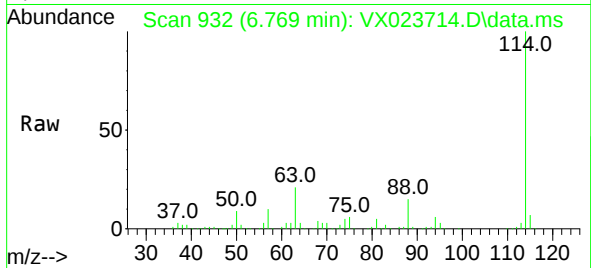




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

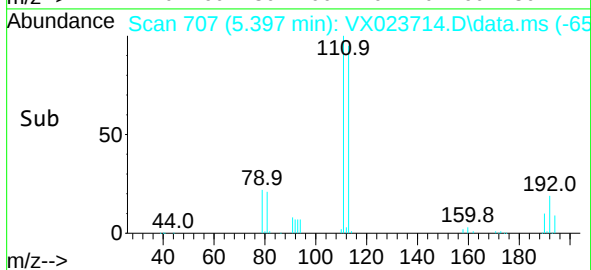
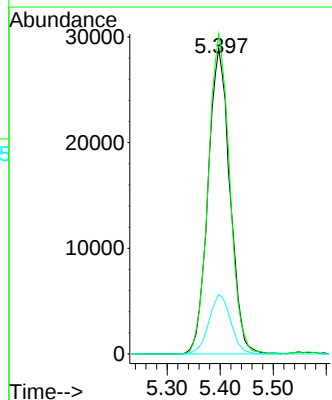
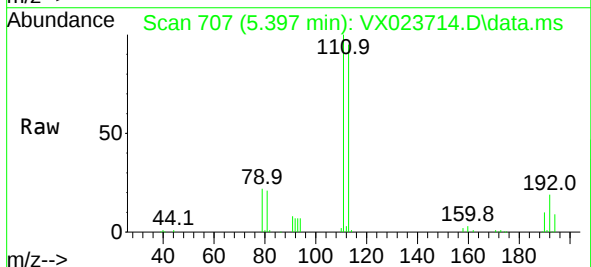
Instrument :  
MSVOA\_X  
ClientSampled :

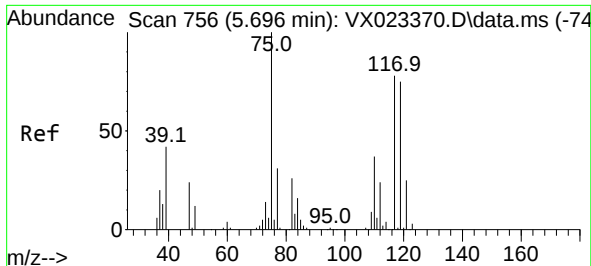
Tgt Ion:114 Resp: 253958  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 40.8  
88 15.4 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 52.183 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion:113 Resp: 82859  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.9 122.9  
192 19.3 16.7 25.1





#36

1,1-Dichloropropene

Concen: 5.265 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.128 min

Lab File: VX023714.D

Acq: 14 Aug 2021 01:39

Tgt Ion: 75 Resp: 12096

Ion Ratio Lower Upper

75 100

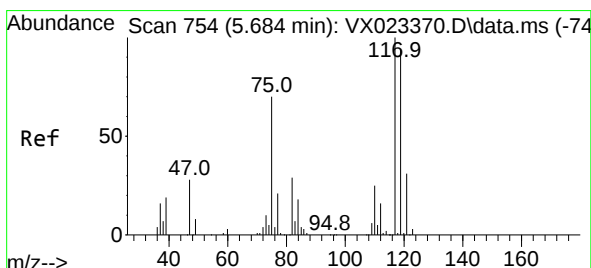
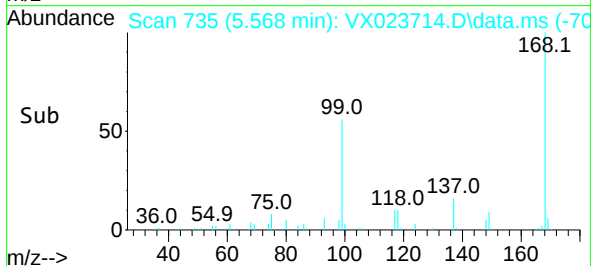
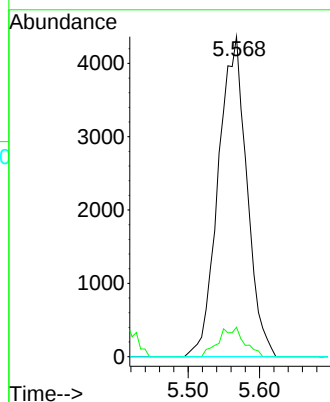
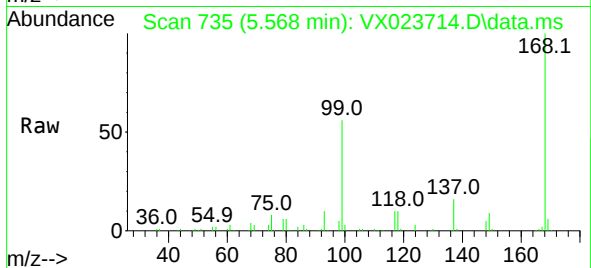
110 8.2 18.1 54.4#

77 0.0 25.3 37.9#

Instrument :

MSVOA\_X

ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.274 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.122 min

Lab File: VX023714.D

Acq: 14 Aug 2021 01:39

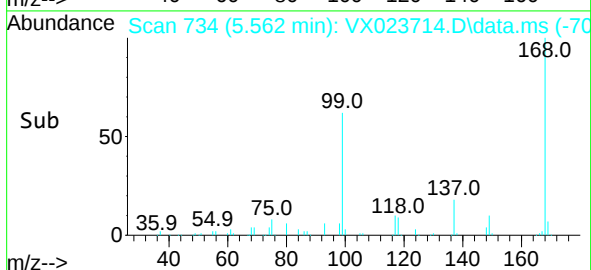
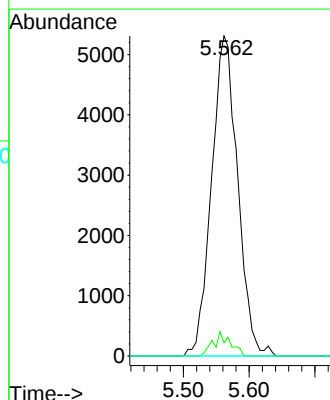
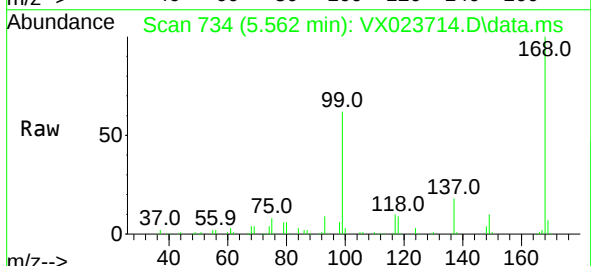
Tgt Ion: 117 Resp: 14658

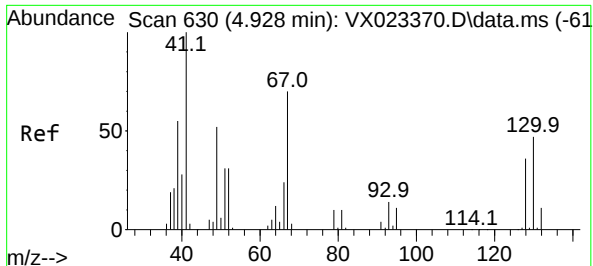
Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.2#

121 0.0 24.8 37.2#



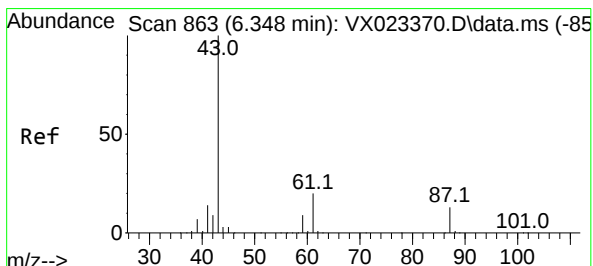
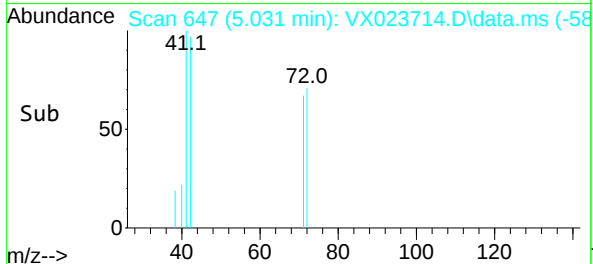
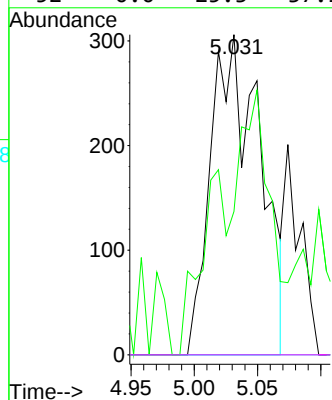
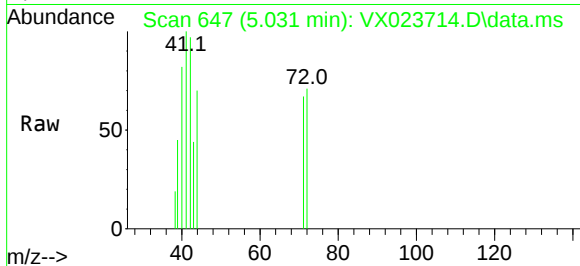


#41  
Methacrylonitrile  
Concen: 0.541 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.103 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 41 Resp: 828

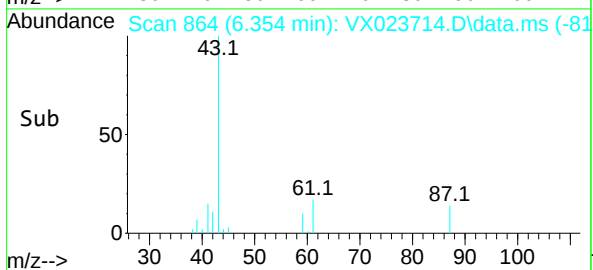
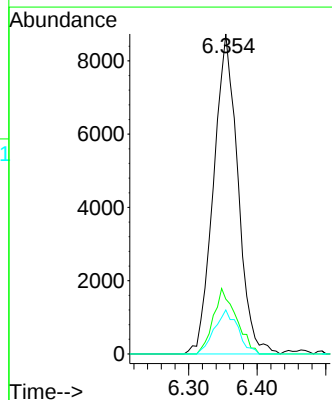
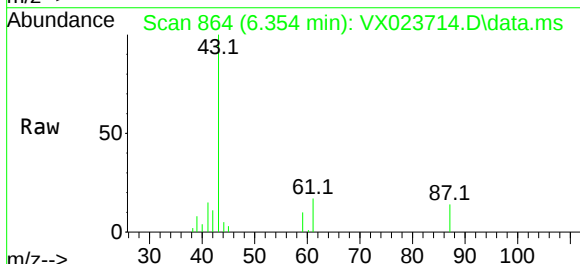
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 30.6  | 42.5  | 63.7# |
| 67  | 0.0   | 65.0  | 97.6# |
| 52  | 0.0   | 25.3  | 37.9# |

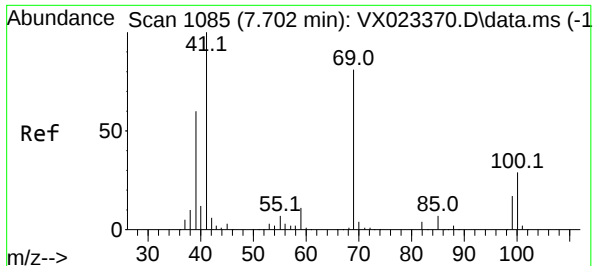


#43  
Isopropyl Acetate  
Concen: 4.783 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 43 Resp: 21470

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 19.4  | 18.2  | 27.4  |
| 87  | 13.3  | 12.5  | 18.7  |

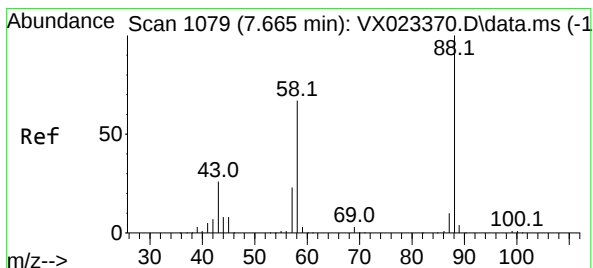
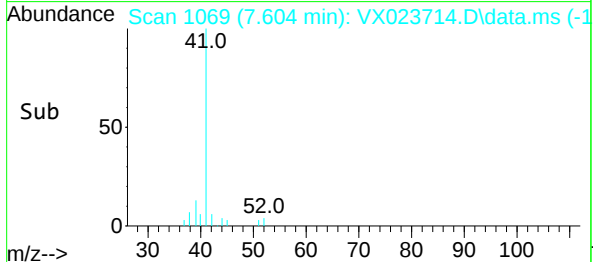
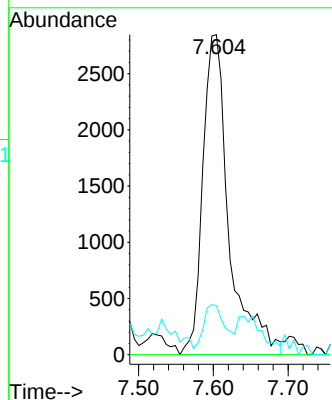
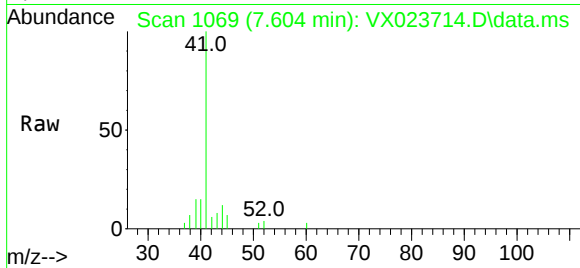




#48  
Methyl methacrylate  
Concen: 3.349 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.098 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

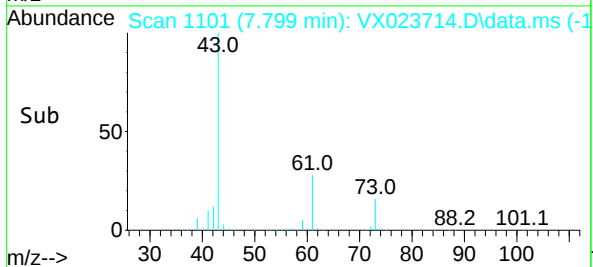
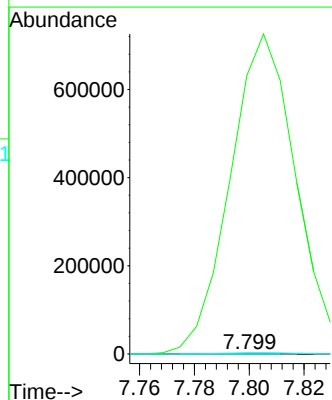
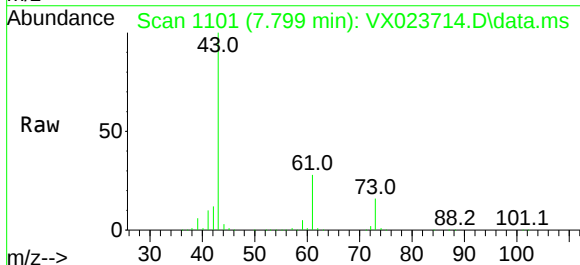
Instrument :  
MSVOA\_X  
ClientSampled :

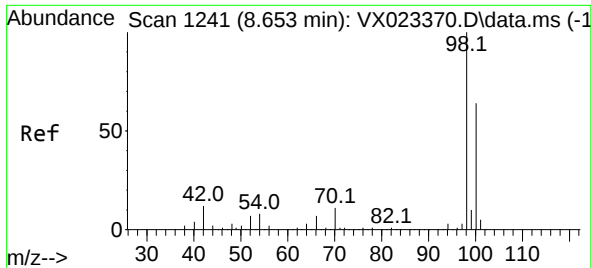
Tgt Ion: 41 Resp: 6961  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 3.547 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 88 Resp: 157  
Ion Ratio Lower Upper  
88 100  
43 776521.7 23.2 34.8#  
58 3541.4 55.0 82.4#

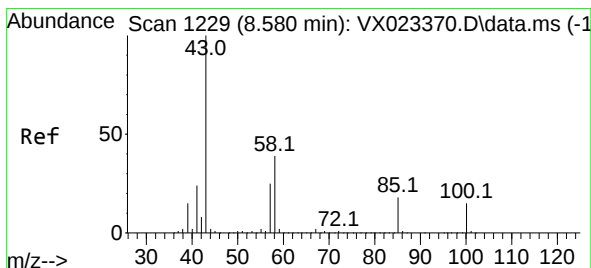
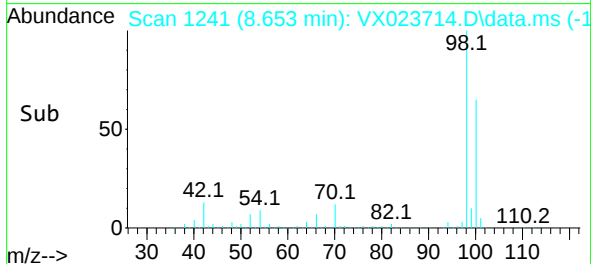
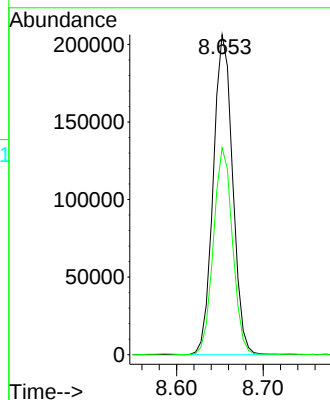
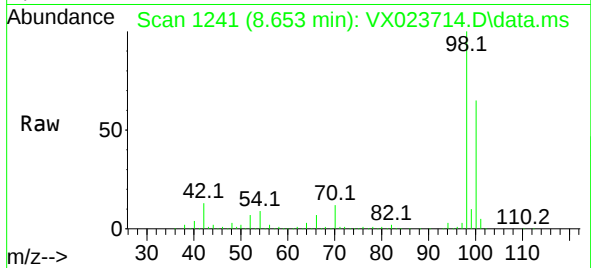




#50  
Toluene-d8  
Concen: 54.932 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

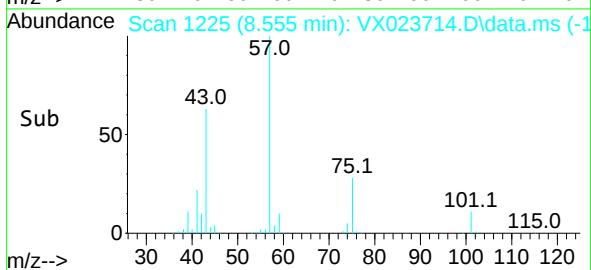
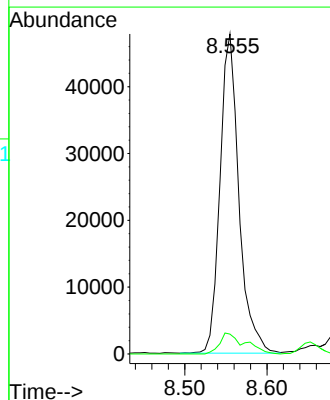
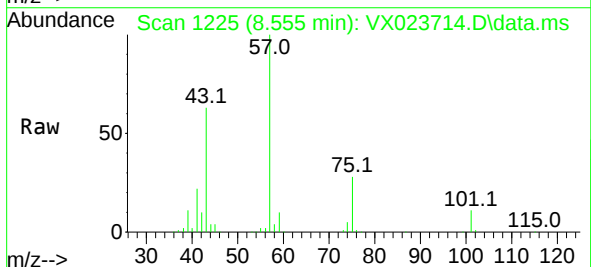
Instrument :  
MSVOA\_X  
ClientSampled :

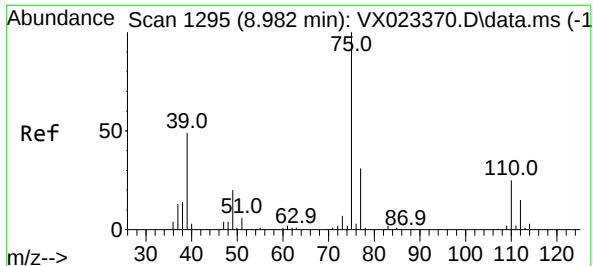
Tgt Ion: 98 Resp: 320466  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 27.847 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 43 Resp: 76448  
Ion Ratio Lower Upper  
43 100  
58 8.8 35.4 53.0#

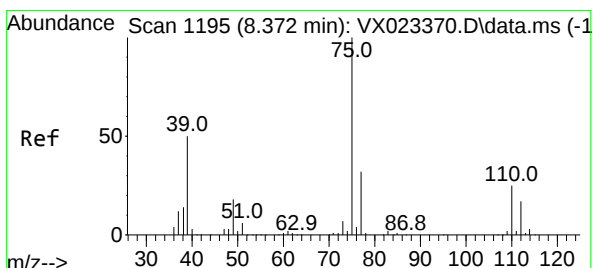
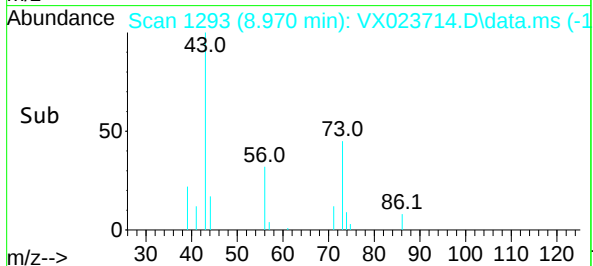
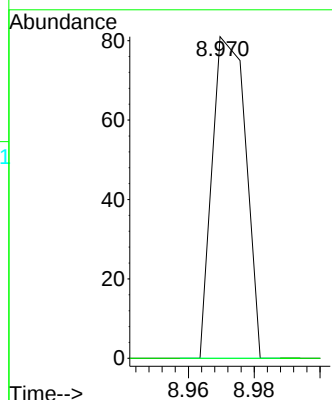
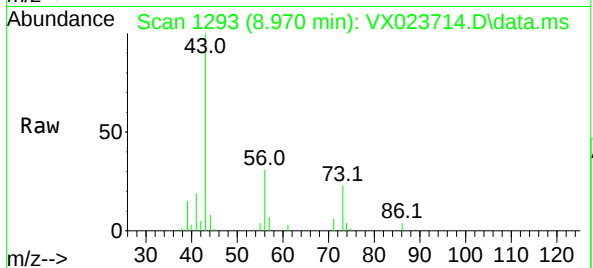




#53  
t-1,3-Dichloropropene  
Concen: 1.836 ug/l  
RT: 8.970 min Scan# 1293  
Delta R.T. -0.012 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

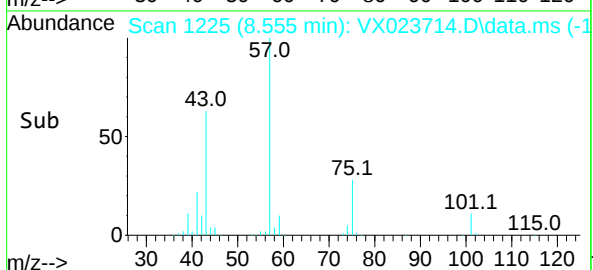
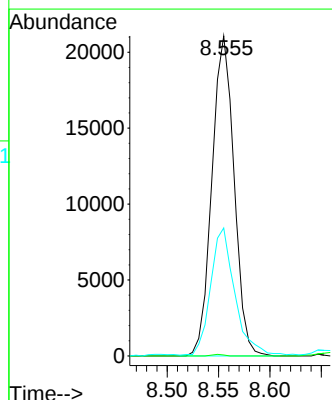
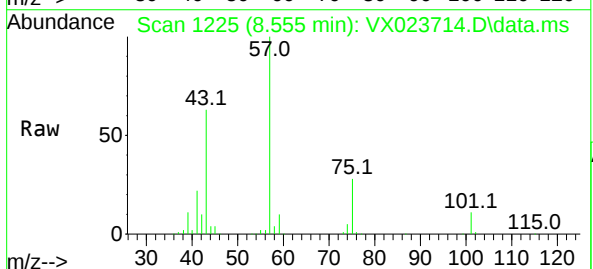
Instrument :  
MSVOA\_X  
ClientSampled :

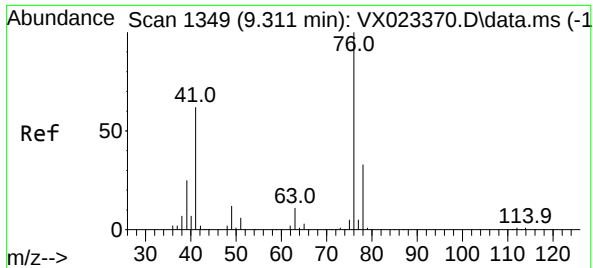
Tgt Ion: 75 Resp: 57  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#



#54  
cis-1,3-Dichloropropene  
Concen: 11.504 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 75 Resp: 31589  
Ion Ratio Lower Upper  
75 100  
77 0.3 25.7 38.5#  
39 39.7 35.1 52.7



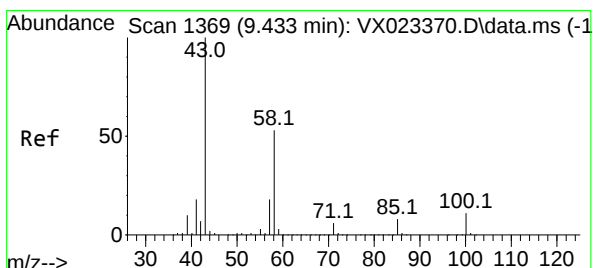
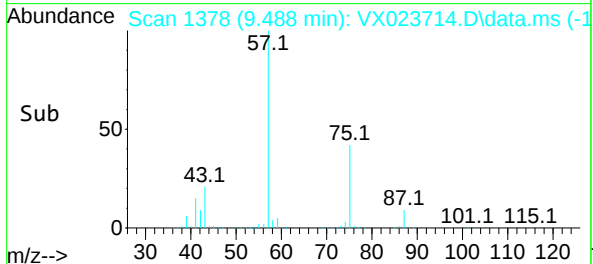
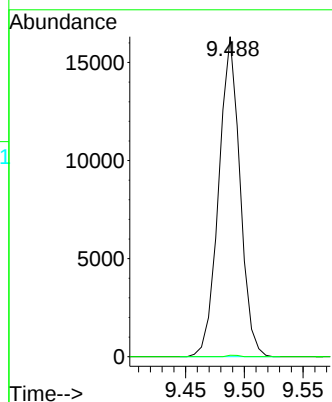
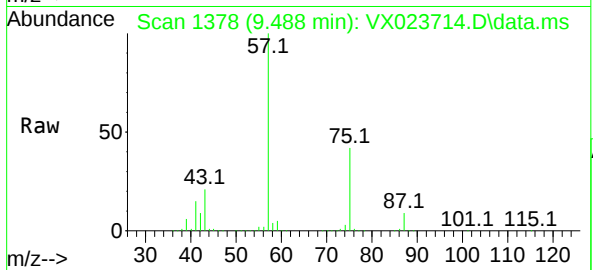


#57

1,3-Dichloropropane  
Concen: 7.065 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Instrument :  
MSVOA\_X  
ClientSampled :

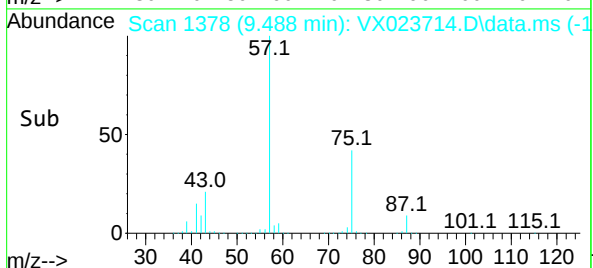
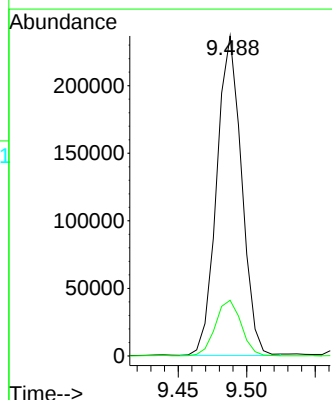
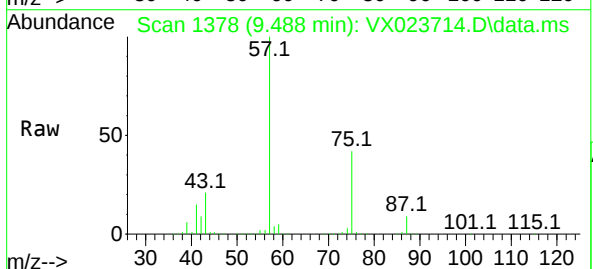
Tgt Ion: 76 Resp: 20514  
Ion Ratio Lower Upper  
76 100  
78 0.2 26.2 39.2#

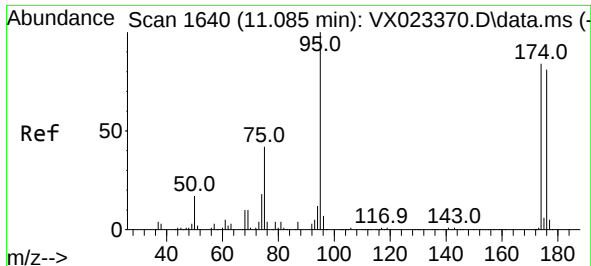


#59

2-Hexanone  
Concen: 143.115 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 43 Resp: 298355  
Ion Ratio Lower Upper  
43 100  
58 18.1 30.9 92.8#

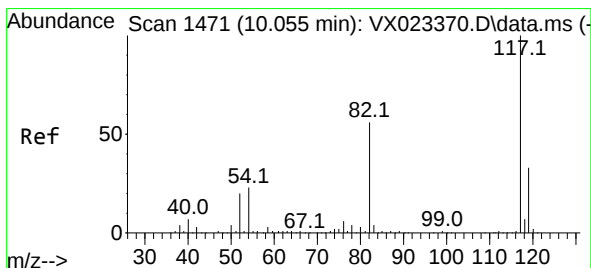
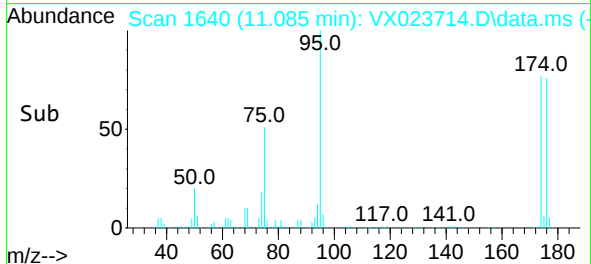
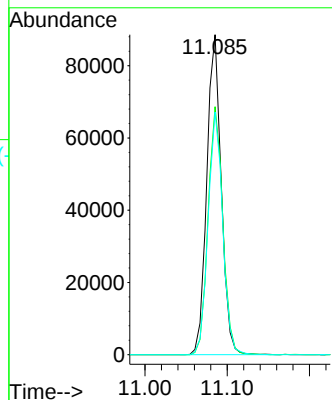
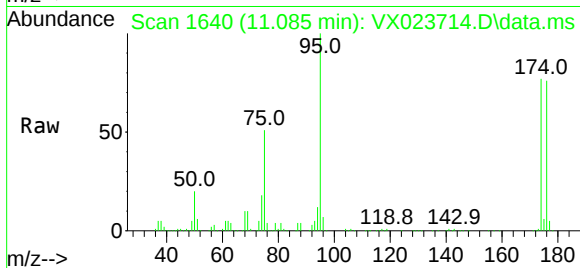




#62  
4-Bromofluorobenzene  
Concen: 54.453 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

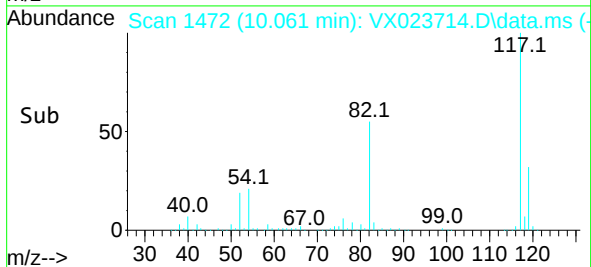
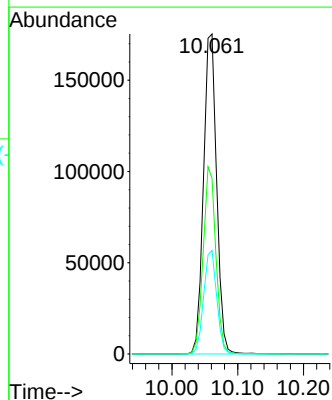
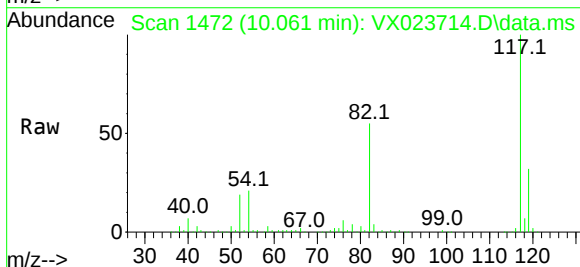
Instrument :  
MSVOA\_X  
ClientSampleId :

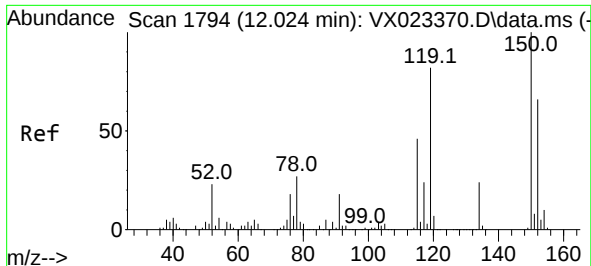
Tgt Ion: 95 Resp: 108020  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 154.6  
176 76.5 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 117 Resp: 244041  
Ion Ratio Lower Upper  
117 100  
82 54.9 47.4 71.2  
119 32.4 26.6 39.8

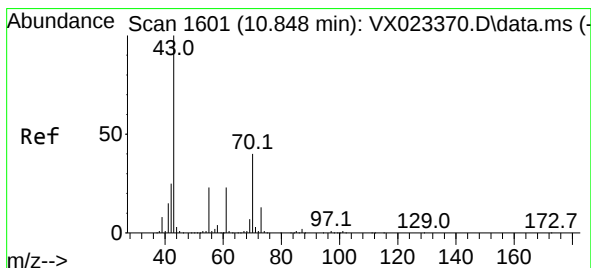
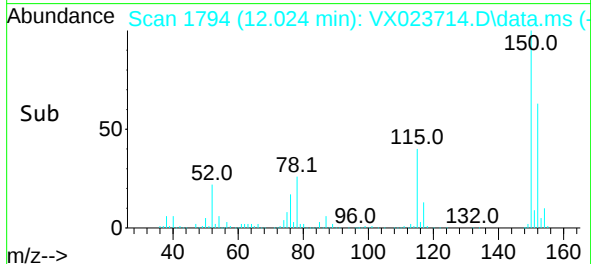
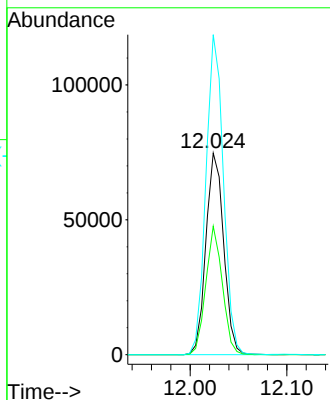
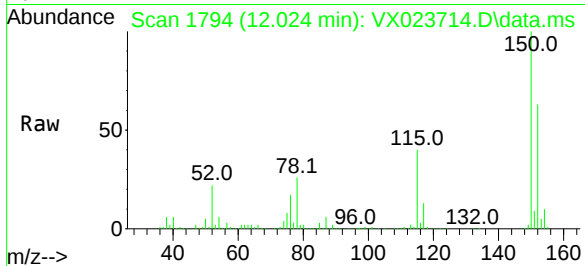




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

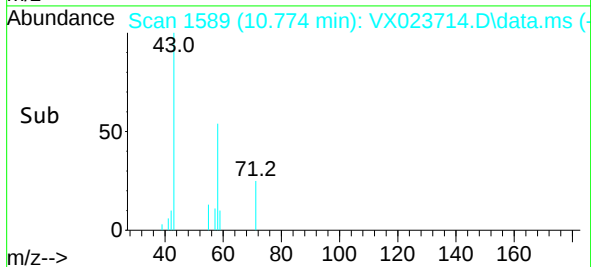
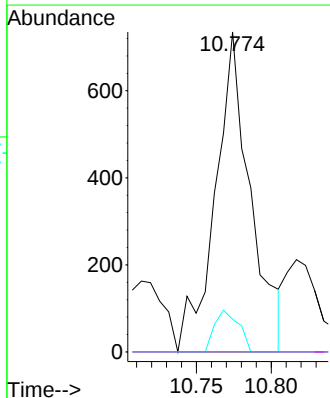
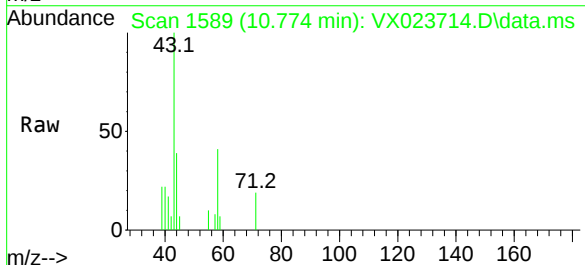
Instrument :  
MSVOA\_X  
ClientSampled :

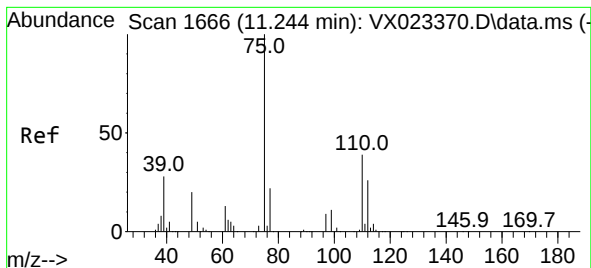
Tgt Ion:152 Resp: 95634  
Ion Ratio Lower Upper  
152 100  
115 59.5 41.1 123.3  
150 156.0 0.0 349.0



#74  
N-ethyl acetate  
Concen: 0.364 ug/l  
RT: 10.774 min Scan# 1589  
Delta R.T. -0.074 min  
Lab File: VX023714.D  
Acq: 14 Aug 2021 01:39

Tgt Ion: 43 Resp: 1198  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.6#  
55 9.0 21.5 32.3#  
61 0.0 22.1 33.1#





#76

1,2,3-Trichloropropane

Concen: 27.144 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.159 min

Lab File: VX023714.D

Acq: 14 Aug 2021 01:39

Tgt Ion: 75 Resp: 57125

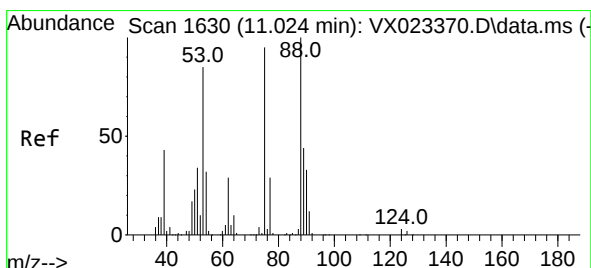
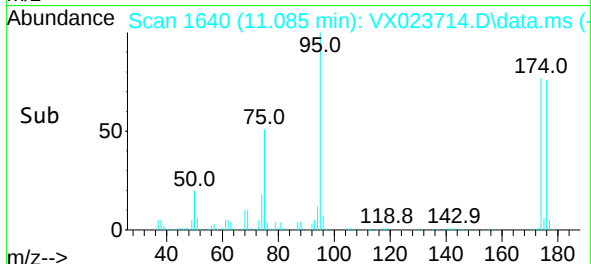
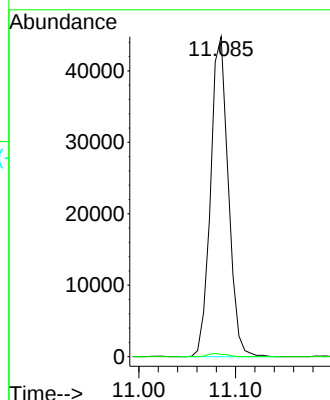
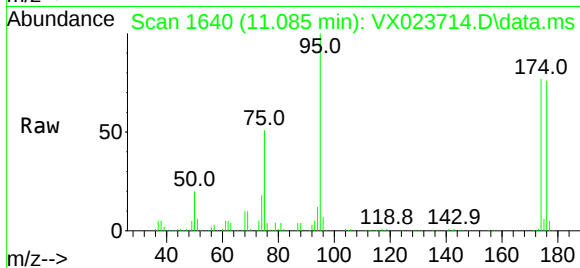
Ion Ratio Lower Upper

75 100  
77 1.0 19.1 57.5#

Instrument :

MSVOA\_X

ClientSampled :



#81

trans-1,4-Dichloro-2-butene

Concen: 72.988 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.061 min

Lab File: VX023714.D

Acq: 14 Aug 2021 01:39

Tgt Ion: 75 Resp: 57125

Ion Ratio Lower Upper

75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

