

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081522\  
 Data File : VX030631.D  
 Acq On : 15 Aug 2022 16:34  
 Operator : JC/MD  
 Sample : N4181-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 X3C26

Quant Time: Aug 16 04:31:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML080422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 16 04:27:08 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.769   | 114   | 286536   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 261792   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 128299   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 55802    | 30.326   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 60.660%  |
| 7) Chloroethane-d5            | 1.666   | 69    | 43497    | 33.532   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 67.060%# |
| 11) 1,1-Dichloroethene-d2     | 2.306   | 63    | 162673   | 46.736   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.480%  |
| 21) 2-Butanone-d5             | 4.471   | 46    | 189126   | 110.929  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 110.930% |
| 24) Chloroform-d              | 5.062   | 84    | 161311   | 42.586   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.180%  |
| 26) 1,2-Dichloroethane-d4     | 5.964   | 65    | 118588   | 46.108   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.220%  |
| 32) Benzene-d6                | 5.977   | 84    | 290699   | 38.765   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 77.540%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 104070   | 42.775   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 85.540%  |
| 41) Toluene-d8                | 8.653   | 98    | 258597   | 36.584   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 73.160%# |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 43740    | 36.138   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 72.280%  |
| 47) 2-Hexanone-d5             | 9.391   | 63    | 126241   | 101.796  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 101.800% |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 154750   | 48.418   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.840%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 100190   | 40.261   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 80.520%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.374   | 62    | 204450   | 103.241  | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.880   | 101   | 262713   | 89.763   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 118099   | 73.638   | ug/L # | 66       |
| 18) Methyl tert-butyl Ether   | 3.123   | 73    | 549492   | 86.965   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.495   | 96    | 90552    | 43.325   | ug/L   | 98       |
| 33) Benzene                   | 6.044   | 78    | 181256   | 21.595   | ug/L   | 100      |
| 34) Trichloroethene           | 7.129   | 95    | 162724   | 66.937   | ug/L   | 90       |
| 35) Methylcyclohexane         | 7.385   | 83    | 338040   | 95.518   | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 7.434   | 63    | 49100    | 22.001   | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 8.580   | 43    | 477384   | 122.834  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 9.159   | 97    | 65816    | 31.716   | ug/L   | 97       |
| 46) Tetrachloroethene         | 9.275   | 164   | 79300    | 51.615   | ug/L   | 99       |
| 48) 2-Hexanone                | 9.433   | 43    | 293037   | 97.043   | ug/L   | 99       |
| 49) Dibromochloromethane      | 9.525   | 129   | 80125    | 36.293   | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 9.616   | 107   | 273452   | 119.826  | ug/L   | 97       |
| 52) Ethylbenzene              | 10.195  | 91    | 750561   | 77.632   | ug/L   | 98       |
| 54) o-Xylene                  | 10.646  | 106   | 113544   | 31.620   | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.963  | 105   | 779221   | 85.684   | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.969  | 146   | 247076   | 62.499   | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081522\  
Data File : VX030631.D  
Acq On : 15 Aug 2022 16:34  
Operator : JC/MD  
Sample : N4181-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

Quant Time: Aug 16 04:31:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML080422WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Aug 16 04:27:08 2022  
Response via : Initial Calibration

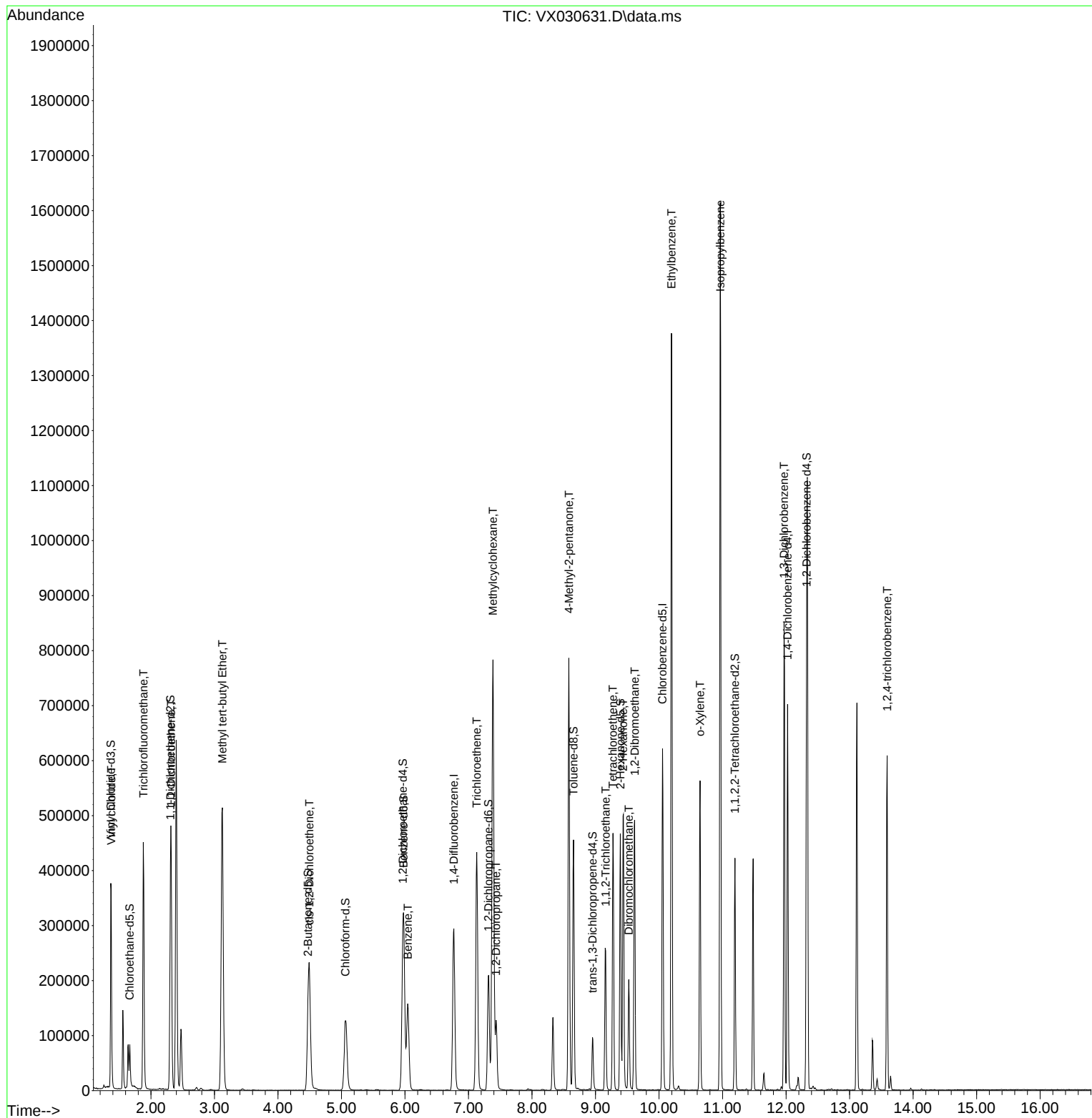
| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| 70) 1,2,4-trichlorobenzene | 13.591 | 180  | 123877   | 50.878 | ug/L  | 96       |

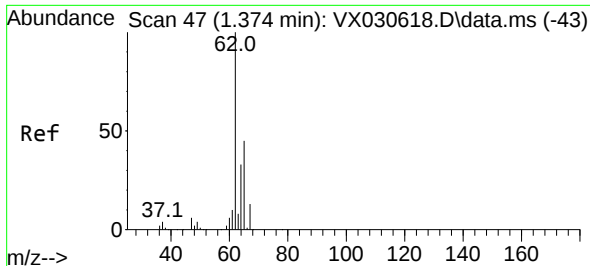
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081522\  
Data File : VX030631.D  
Acq On : 15 Aug 2022 16:34  
Operator : JC/MD  
Sample : N4181-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

Quant Time: Aug 16 04:31:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML080422WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Aug 16 04:27:08 2022  
Response via : Initial Calibration

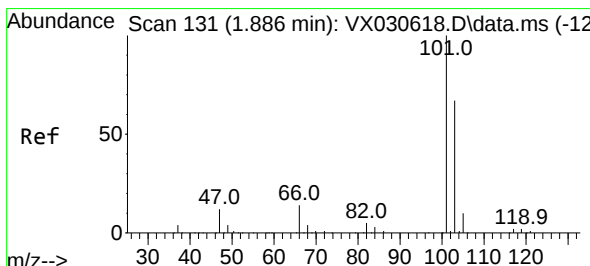
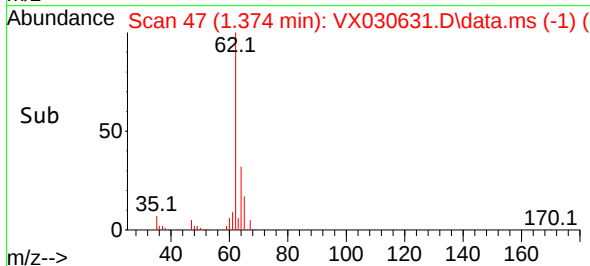
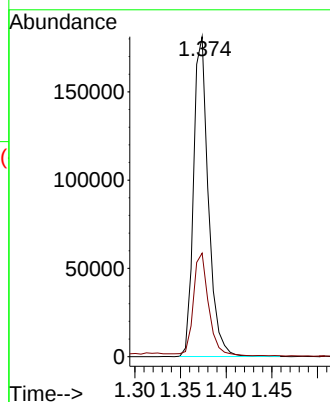
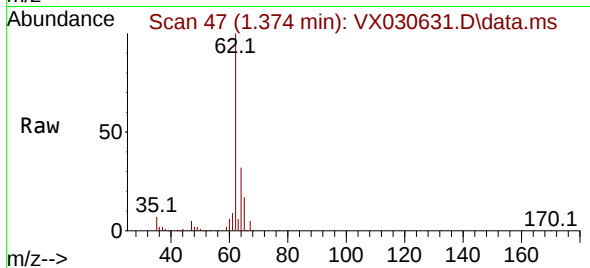




#5  
 Vinyl chloride  
 Concen: 103.241 ug/L  
 RT: 1.374 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VX030631.D  
 Acq: 15 Aug 2022 16:34

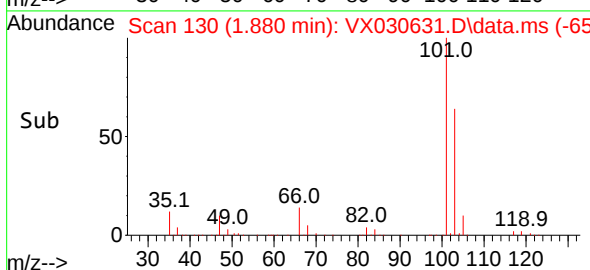
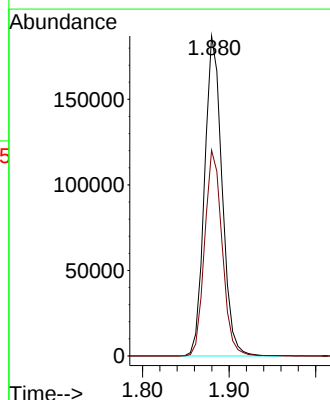
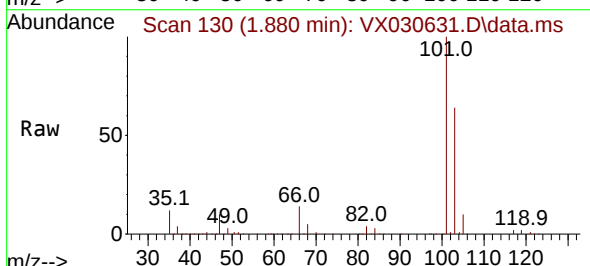
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 X3C26

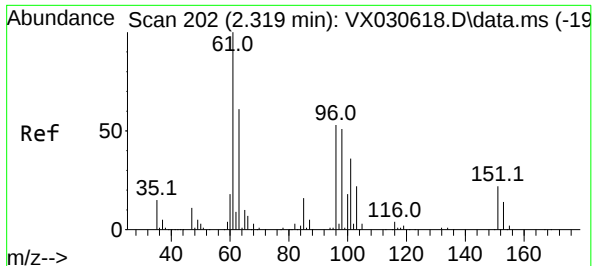
Tgt Ion: 62 Resp: 204450  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 23.8 44.2



#9  
 Trichlorofluoromethane  
 Concen: 89.763 ug/L  
 RT: 1.880 min Scan# 130  
 Delta R.T. -0.006 min  
 Lab File: VX030631.D  
 Acq: 15 Aug 2022 16:34

Tgt Ion: 101 Resp: 262713  
 Ion Ratio Lower Upper  
 101 100  
 103 64.1 51.5 77.3





#12

1,1-Dichloroethene

Concen: 73.638 ug/L

RT: 2.319 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA\_X

ClientSampleId :

X3C26

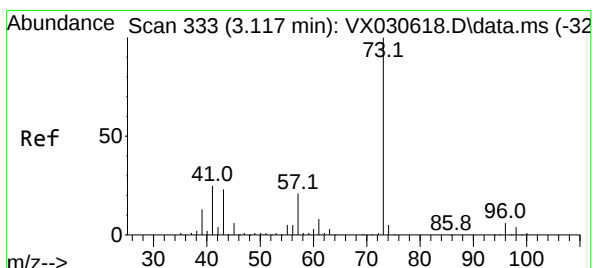
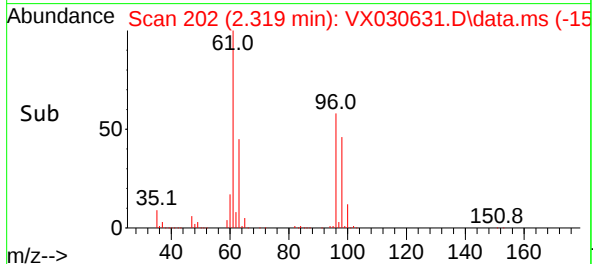
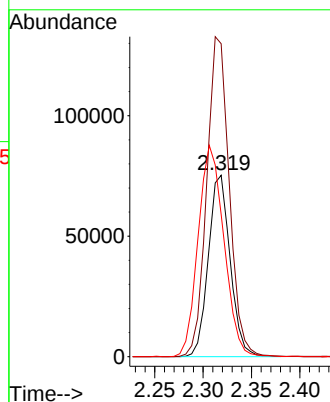
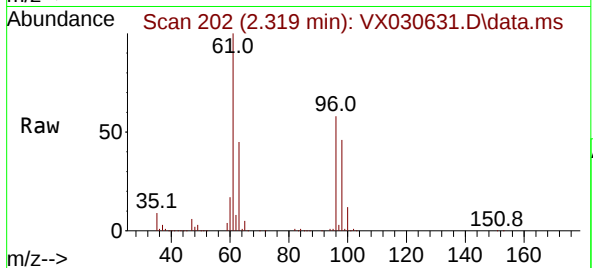
Tgt Ion: 96 Resp: 118099

Ion Ratio Lower Upper

96 100

61 172.4 130.2 241.8

63 78.4 113.5 210.9#



#18

Methyl tert-butyl Ether

Concen: 86.965 ug/L

RT: 3.123 min Scan# 334

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

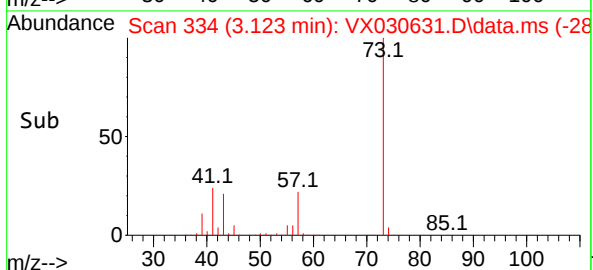
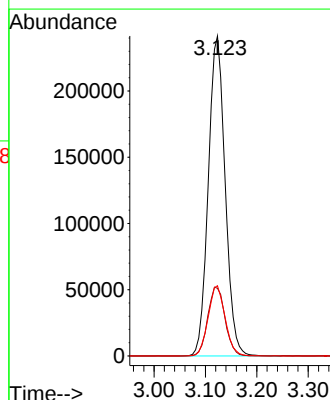
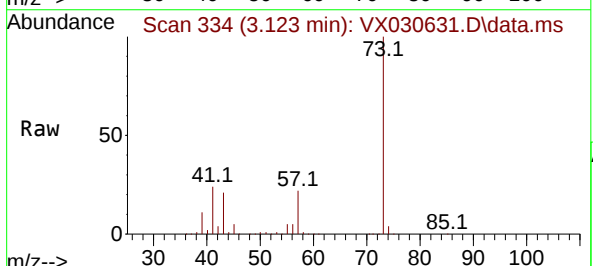
Tgt Ion: 73 Resp: 549492

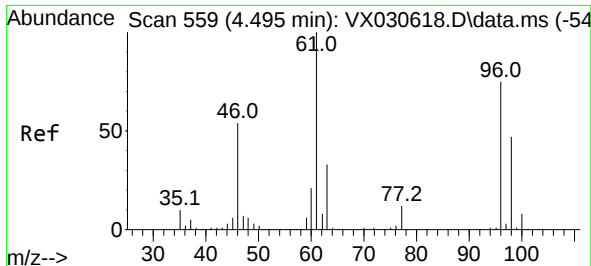
Ion Ratio Lower Upper

73 100

43 22.1 17.6 26.4

57 22.1 17.5 26.3

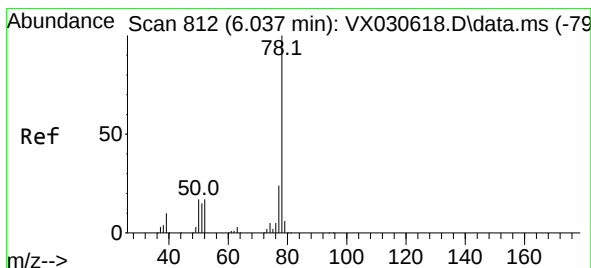
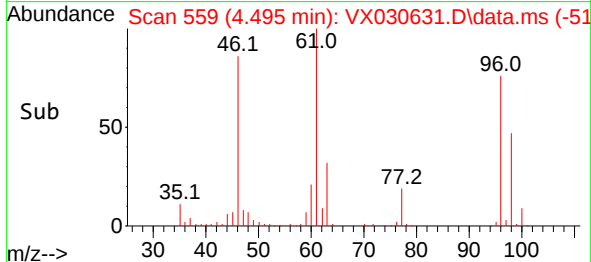
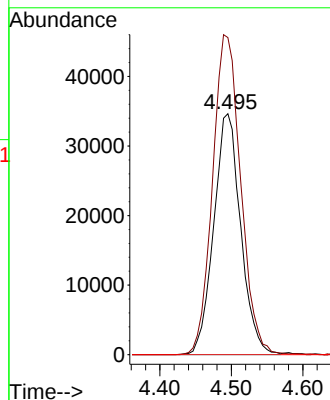
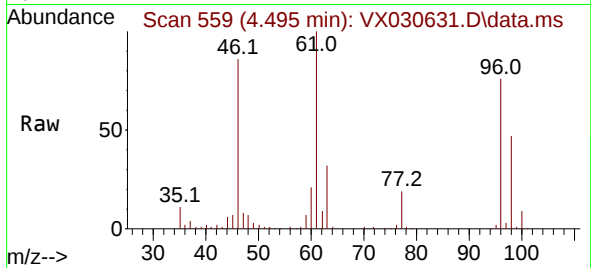




#20  
cis-1,2-Dichloroethene  
Concen: 43.325 ug/L  
RT: 4.495 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

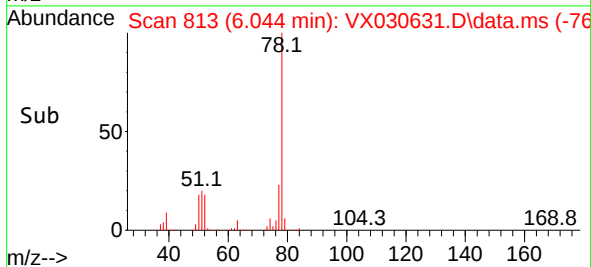
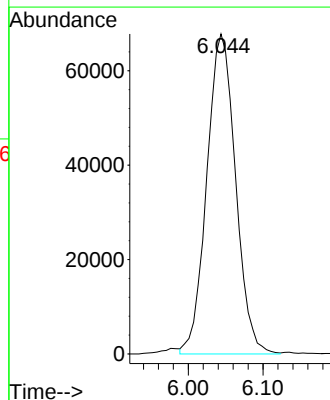
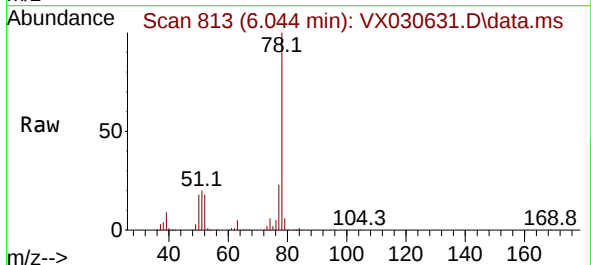
Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

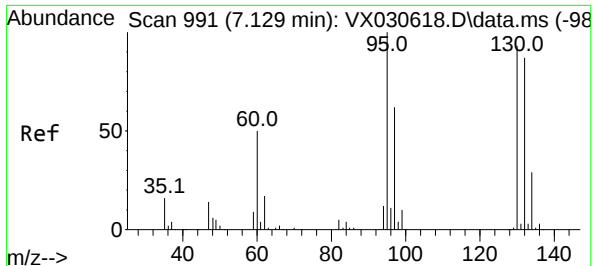
Tgt Ion: 96 Resp: 90552  
Ion Ratio Lower Upper  
96 100  
61 131.6 94.0 174.6  
68 0.0 0.0 0.0



#33  
Benzene  
Concen: 21.595 ug/L  
RT: 6.044 min Scan# 813  
Delta R.T. 0.006 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Tgt Ion: 78 Resp: 181256

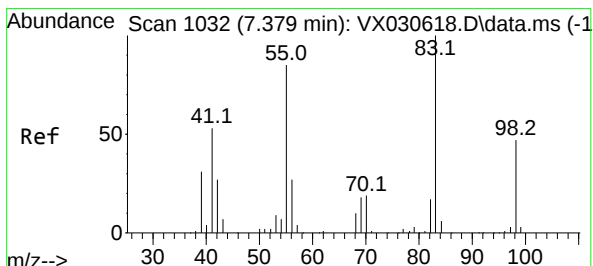
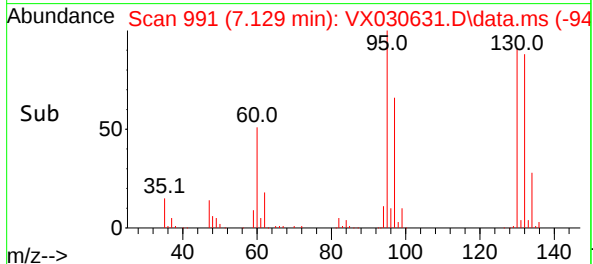
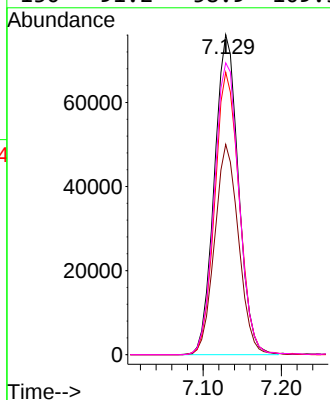
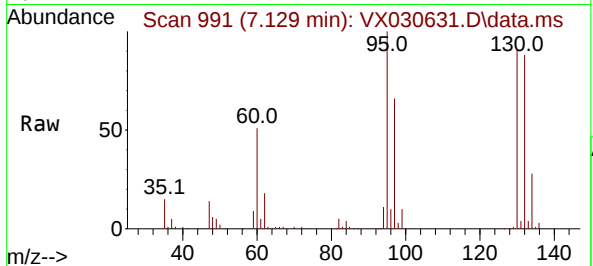




#34  
Trichloroethene  
Concen: 66.937 ug/L  
RT: 7.129 min Scan# 991  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

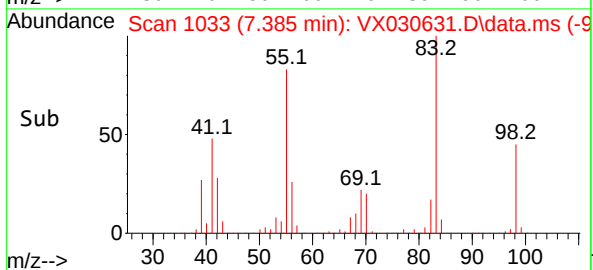
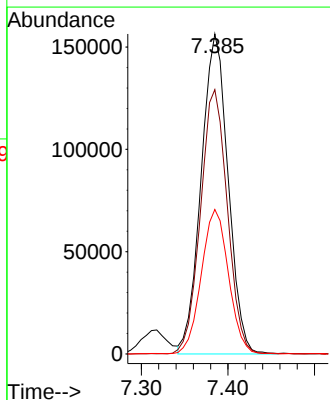
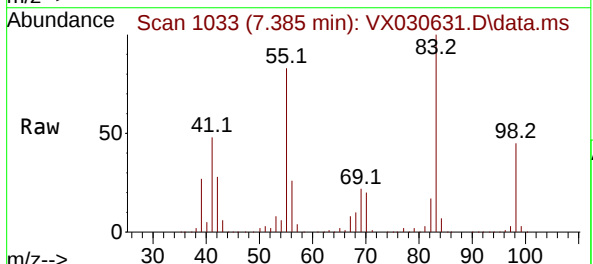
Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

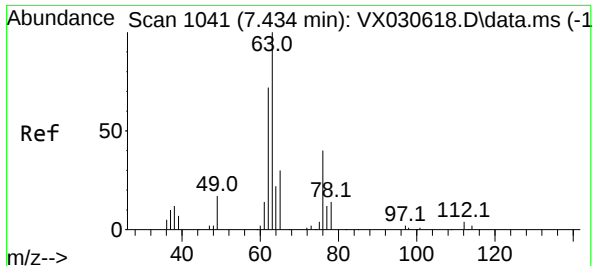
Tgt Ion: 95 Resp: 162724  
Ion Ratio Lower Upper  
95 100  
97 65.7 40.2 74.6  
132 88.3 55.3 102.7  
130 91.2 58.9 109.5



#35  
Methylcyclohexane  
Concen: 95.518 ug/L  
RT: 7.385 min Scan# 1033  
Delta R.T. 0.006 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Tgt Ion: 83 Resp: 338040  
Ion Ratio Lower Upper  
83 100  
55 82.2 64.0 96.0  
98 45.7 36.7 55.1





#37

1,2-Dichloropropane

Concen: 22.001 ug/L

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA\_X

ClientSampleId :

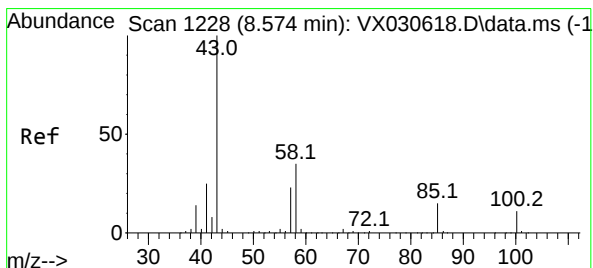
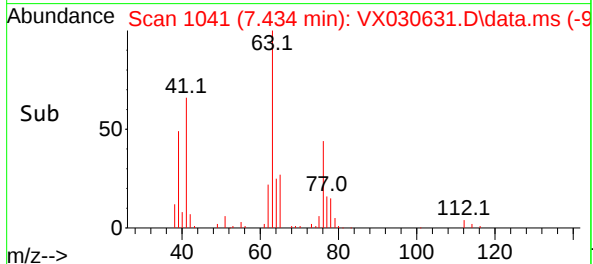
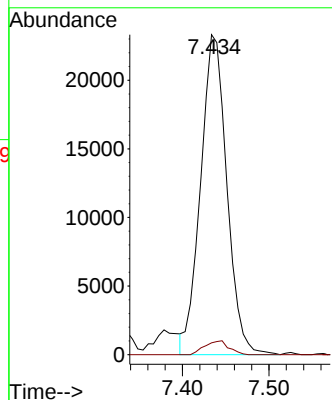
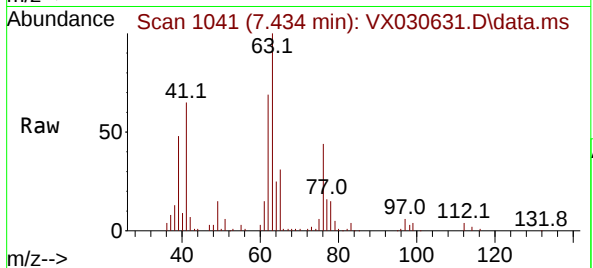
X3C26

Tgt Ion: 63 Resp: 49100

Ion Ratio Lower Upper

63 100

112 4.0 3.0 4.4



#40

4-Methyl-2-pentanone

Concen: 122.834 ug/L

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

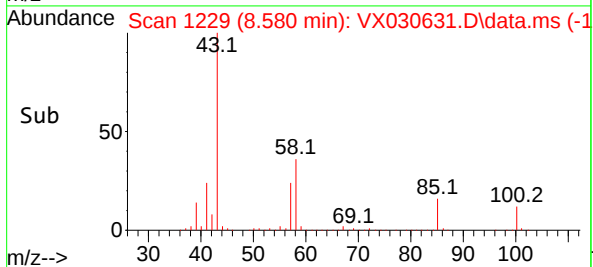
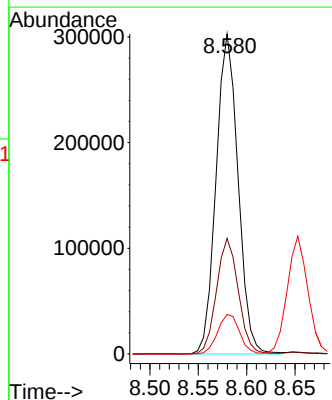
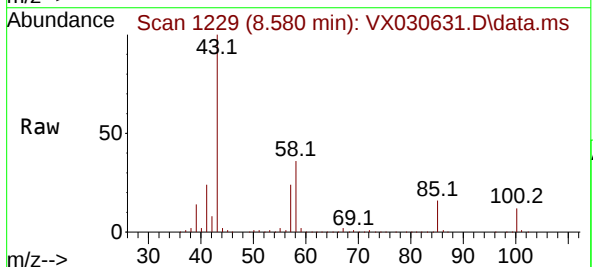
Tgt Ion: 43 Resp: 477384

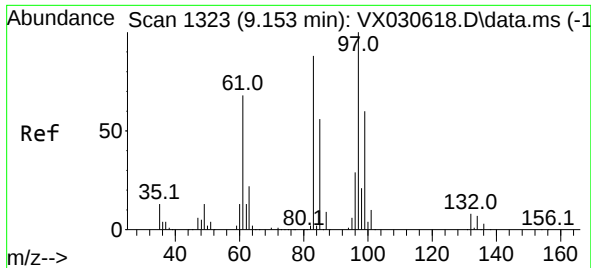
Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6

100 12.4 10.5 15.7





#45

1,1,2-Trichloroethane

Concen: 31.716 ug/L

RT: 9.159 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA\_X

ClientSampleId :

X3C26

Tgt Ion: 97 Resp: 65816

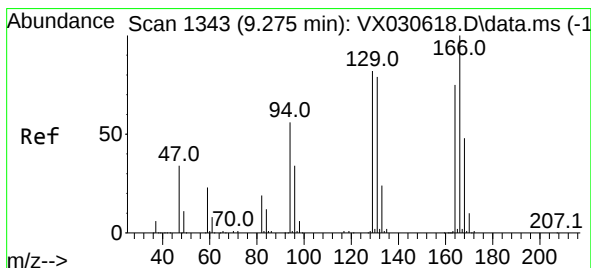
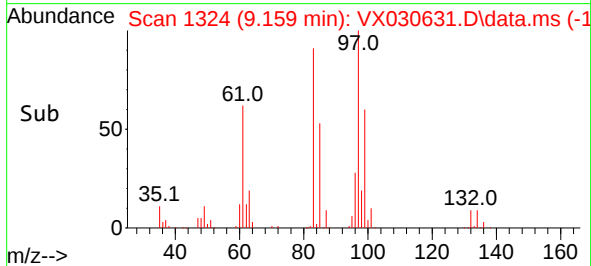
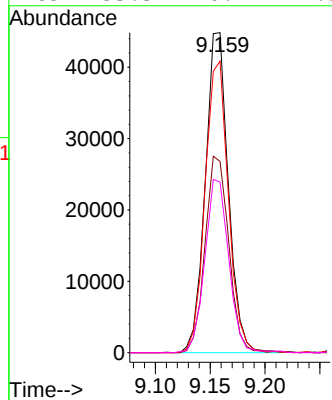
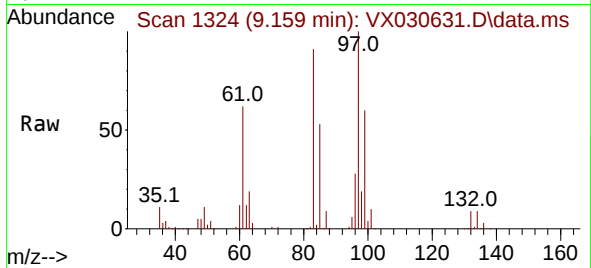
Ion Ratio Lower Upper

97 100

99 59.8 43.3 80.3

83 91.1 63.0 117.0

85 53.3 40.1 74.5



#46

Tetrachloroethene

Concen: 51.615 ug/L

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Tgt Ion:164 Resp: 79300

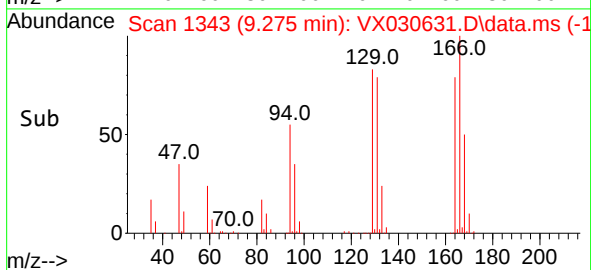
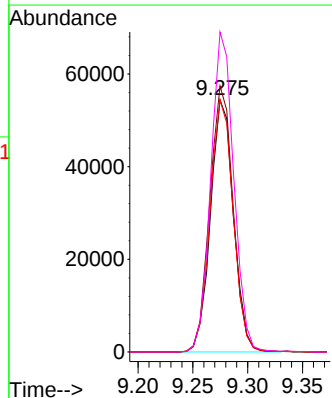
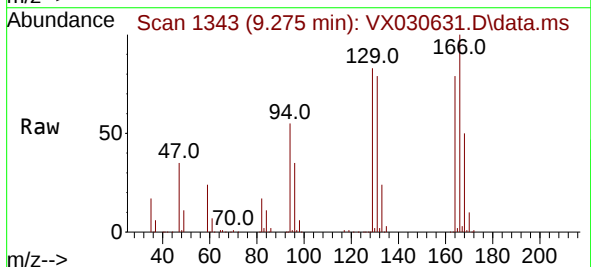
Ion Ratio Lower Upper

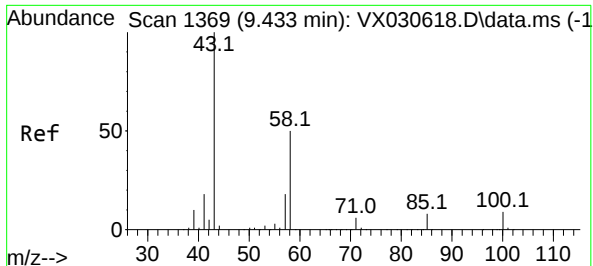
164 100

129 105.6 72.7 135.1

131 100.0 69.9 129.9

166 127.0 88.3 164.1



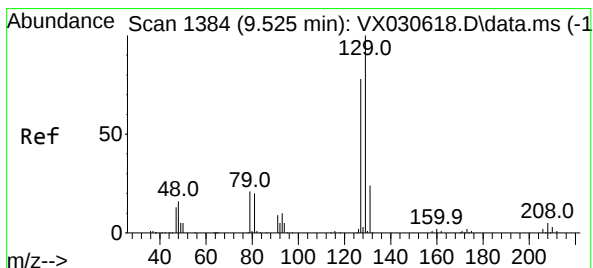
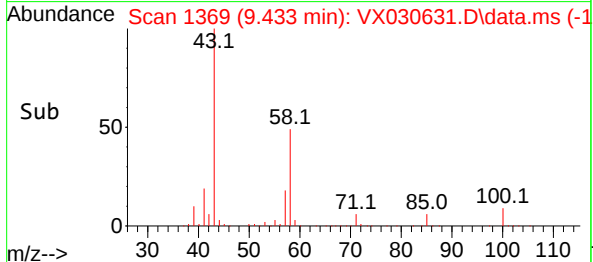
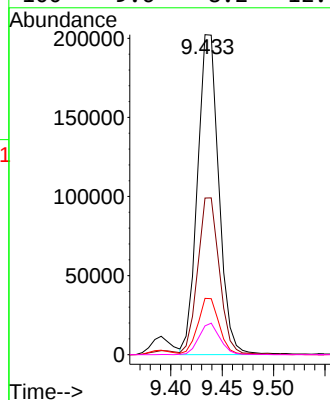
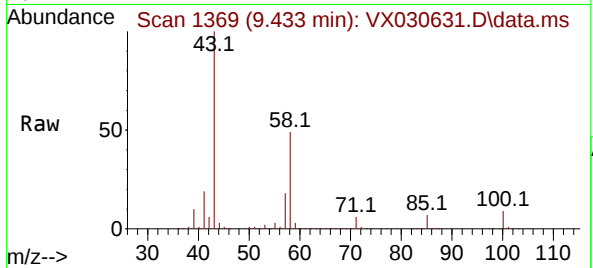


#48  
2-Hexanone  
Concen: 97.043 ug/L  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

Tgt Ion: 43 Resp: 293037

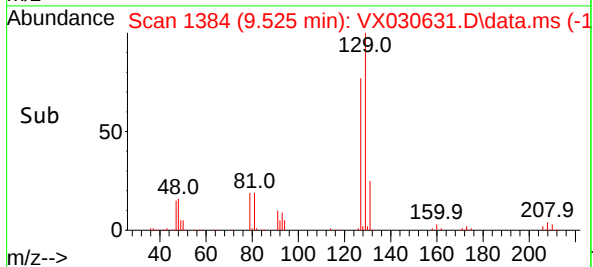
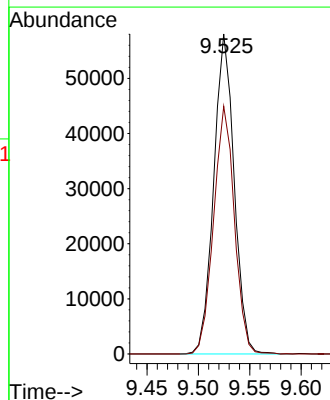
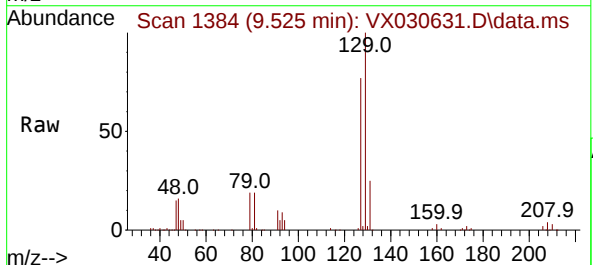
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 49.8  | 40.4  | 60.6  |
| 57  | 17.7  | 14.6  | 22.0  |
| 100 | 9.6   | 8.2   | 12.4  |

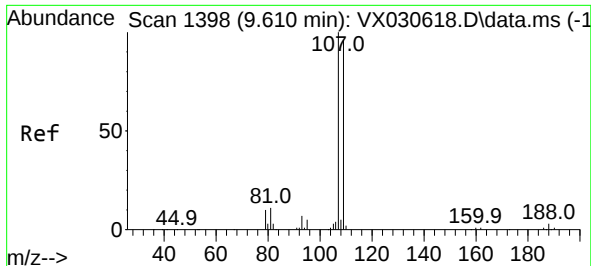


#49  
Dibromochloromethane  
Concen: 36.293 ug/L  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Tgt Ion: 129 Resp: 80125

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.4  | 55.6  | 103.2 |





#50

1,2-Dibromoethane

Concen: 119.826 ug/L

RT: 9.616 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX030631.D

Acq: 15 Aug 2022 16:34

Instrument :

MSVOA\_X

ClientSampleId :

X3C26

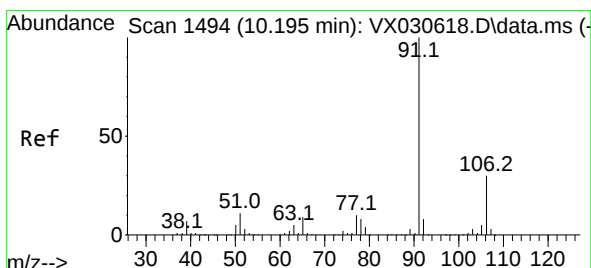
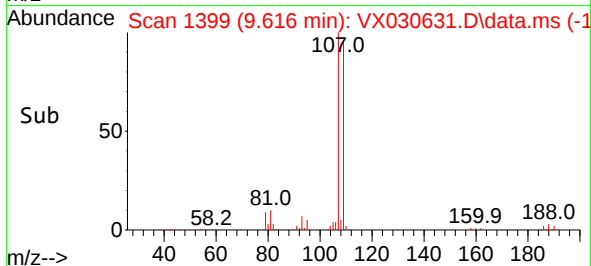
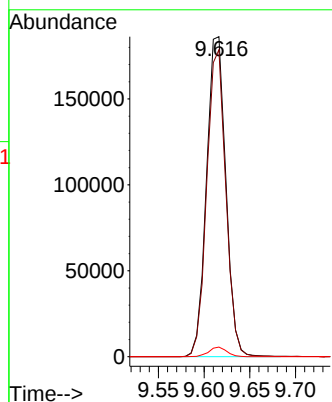
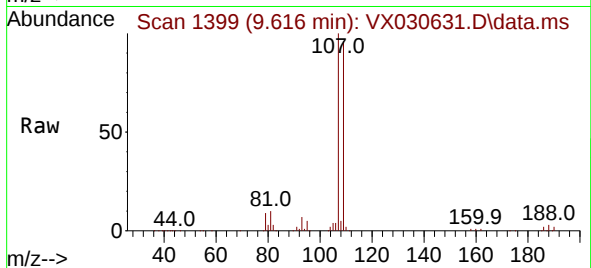
Tgt Ion:107 Resp: 273452

Ion Ratio Lower Upper

107 100

109 95.9 64.8 120.4

188 3.0 2.2 3.2



#52

Ethylbenzene

Concen: 77.632 ug/L

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX030631.D

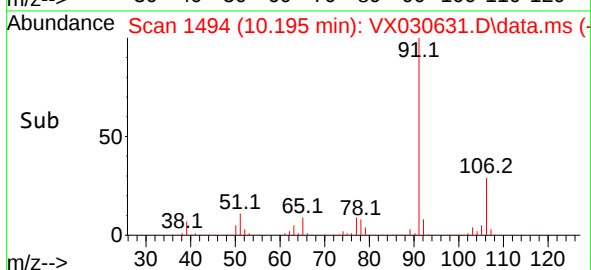
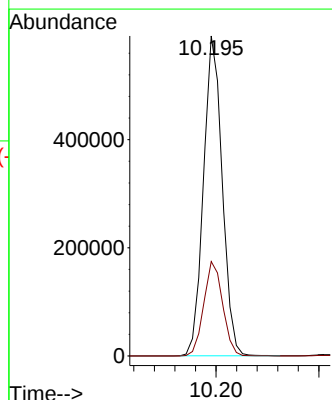
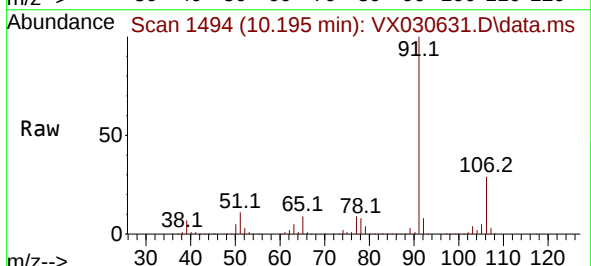
Acq: 15 Aug 2022 16:34

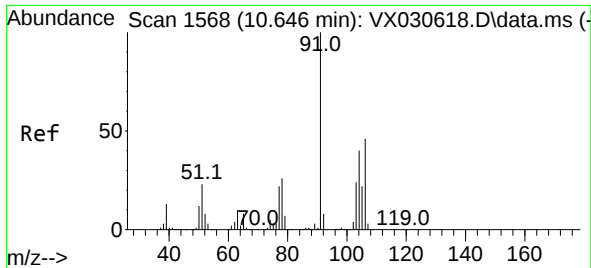
Tgt Ion: 91 Resp: 750561

Ion Ratio Lower Upper

91 100

106 29.5 21.3 39.5

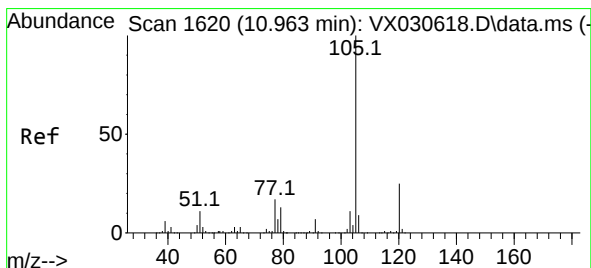
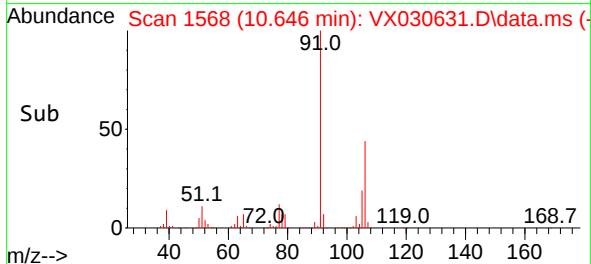
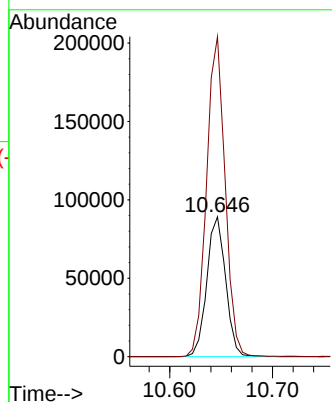
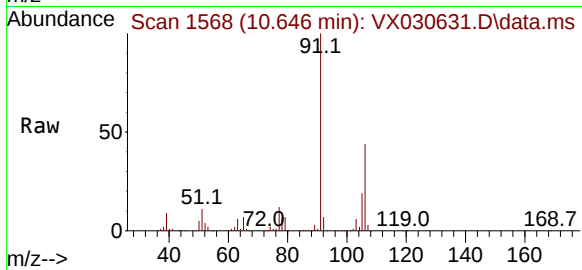




#54  
o-Xylene  
Concen: 31.620 ug/L  
RT: 10.646 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

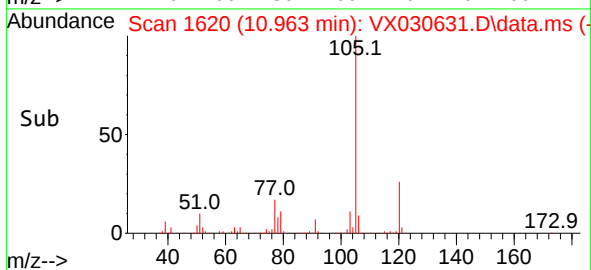
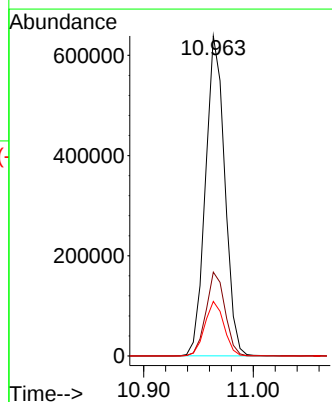
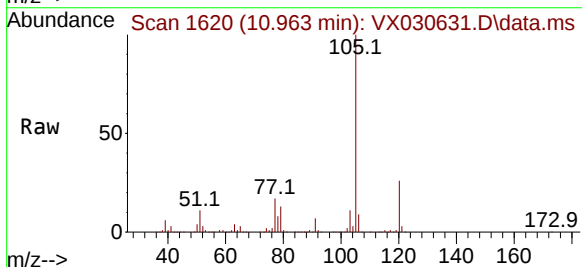
Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

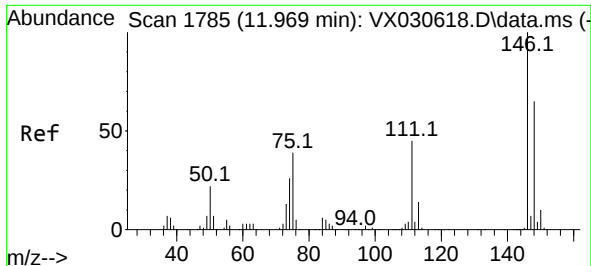
Tgt Ion:106 Resp: 113544  
Ion Ratio Lower Upper  
106 100  
91 228.9 157.8 293.0



#60  
Isopropylbenzene  
Concen: 85.684 ug/L  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Tgt Ion:105 Resp: 779221  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.6 31.0  
77 17.1 13.5 20.3

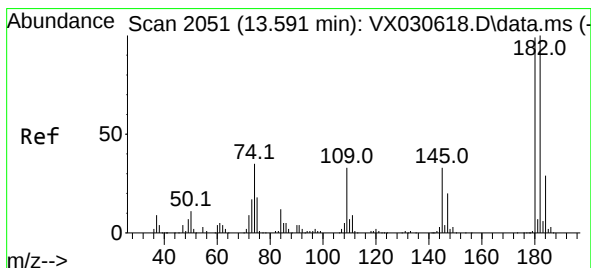
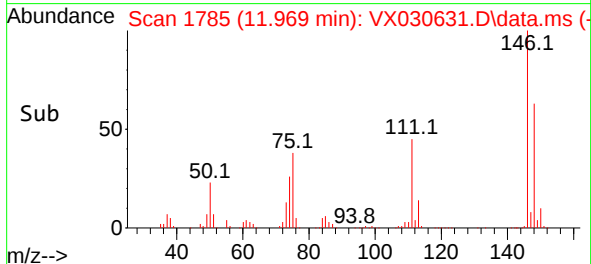
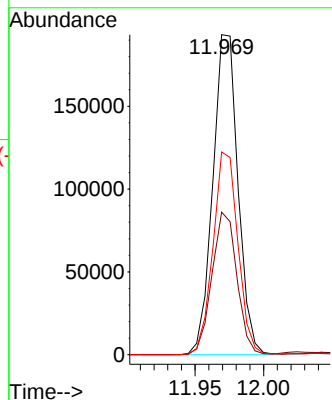
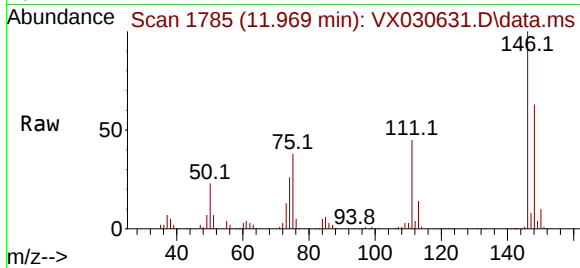




#64  
1,3-Dichlorobenzene  
Concen: 62.499 ug/L  
RT: 11.969 min Scan# 1785  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Instrument :  
MSVOA\_X  
ClientSampleId :  
X3C26

Tgt Ion:146 Resp: 247076  
Ion Ratio Lower Upper  
146 100  
111 44.5 30.9 57.5  
148 63.4 42.6 79.0



#70  
1,2,4-trichlorobenzene  
Concen: 50.878 ug/L  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX030631.D  
Acq: 15 Aug 2022 16:34

Tgt Ion:180 Resp: 123877  
Ion Ratio Lower Upper  
180 100  
182 96.0 72.7 109.1  
145 33.2 26.6 40.0

