

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081121\  
 Data File : VX023645.D  
 Acq On : 11 Aug 2021 10:54  
 Operator : JC/MD  
 Sample : VIBLK600  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 12 01:26:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML081121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 11 12:02:06 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.769   | 114   | 333741   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 306076   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 132575   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 91939    | 52.852   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 105.700% |
| 7) Chloroethane-d5            | 1.666   | 69    | 77257    | 54.063   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 108.120% |
| 11) 1,1-Dichloroethene-d2     | 2.307   | 63    | 152208   | 40.281   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.560%  |
| 21) 2-Butanone-d5             | 4.471   | 46    | 187559   | 111.836  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 111.840% |
| 24) Chloroform-d              | 5.068   | 84    | 198876   | 50.489   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.980% |
| 26) 1,2-Dichloroethane-d4     | 5.964   | 65    | 140967   | 52.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 104.420% |
| 32) Benzene-d6                | 5.983   | 84    | 417959   | 54.208   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 108.420% |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 132085   | 54.446   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 108.900% |
| 41) Toluene-d8                | 8.653   | 98    | 392927   | 52.915   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 105.840% |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 58689    | 51.121   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.240% |
| 47) 2-Hexanone-d5             | 9.391   | 63    | 134802   | 115.577  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 115.580% |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 168873   | 52.254   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 104.500% |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 129020   | 55.458   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 110.920% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.173   | 85    | 2110     | 1.017    | ug/L   | 99       |
| 3) Chloromethane              | 1.295   | 50    | 1669     | 0.846    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.374   | 62    | 1829     | 0.912    | ug/L # | 1        |
| 6) Bromomethane               | 1.605   | 94    | 2144     | 1.722    | ug/L   | 81       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.319   | 101   | 3536     | 1.801    | ug/L # | 69       |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 2810     | 1.655    | ug/L # | 1        |
| 14) Carbon disulfide          | 2.514   | 76    | 8421     | 2.467    | ug/L   | 96       |
| 15) Methyl Acetate            | 2.715   | 43    | 1740     | 0.707    | ug/L # | 66       |
| 16) Methylene chloride        | 2.794   | 84    | 1889     | 0.893    | ug/L   | 78       |
| 17) trans-1,2-Dichloroethene  | 3.093   | 96    | 2116     | 1.177    | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 5.977   | 62    | 2499     | 0.783    | ug/L   | 98       |
| 34) Trichloroethene           | 7.135   | 95    | 2207     | 1.032    | ug/L   | 87       |
| 42) Toluene                   | 8.726   | 91    | 11817    | 1.333    | ug/L   | 92       |
| 46) Tetrachloroethene         | 9.275   | 164   | 1822     | 1.123    | ug/L   | 95       |
| 51) Chlorobenzene             | 10.086  | 112   | 4913     | 0.834    | ug/L   | 95       |
| 52) Ethylbenzene              | 10.195  | 91    | 7370     | 0.760    | ug/L   | 100      |
| 53) m,p-Xylene                | 10.305  | 106   | 3211     | 0.868    | ug/L   | 93       |
| 60) Isopropylbenzene          | 10.963  | 105   | 7546     | 0.839    | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.457  | 105   | 6465     | 0.888    | ug/L   | 99       |

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 Sample : VIBLK600  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 12 01:26:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML081121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 11 12:02:06 2021  
 Response via : Initial Calibration

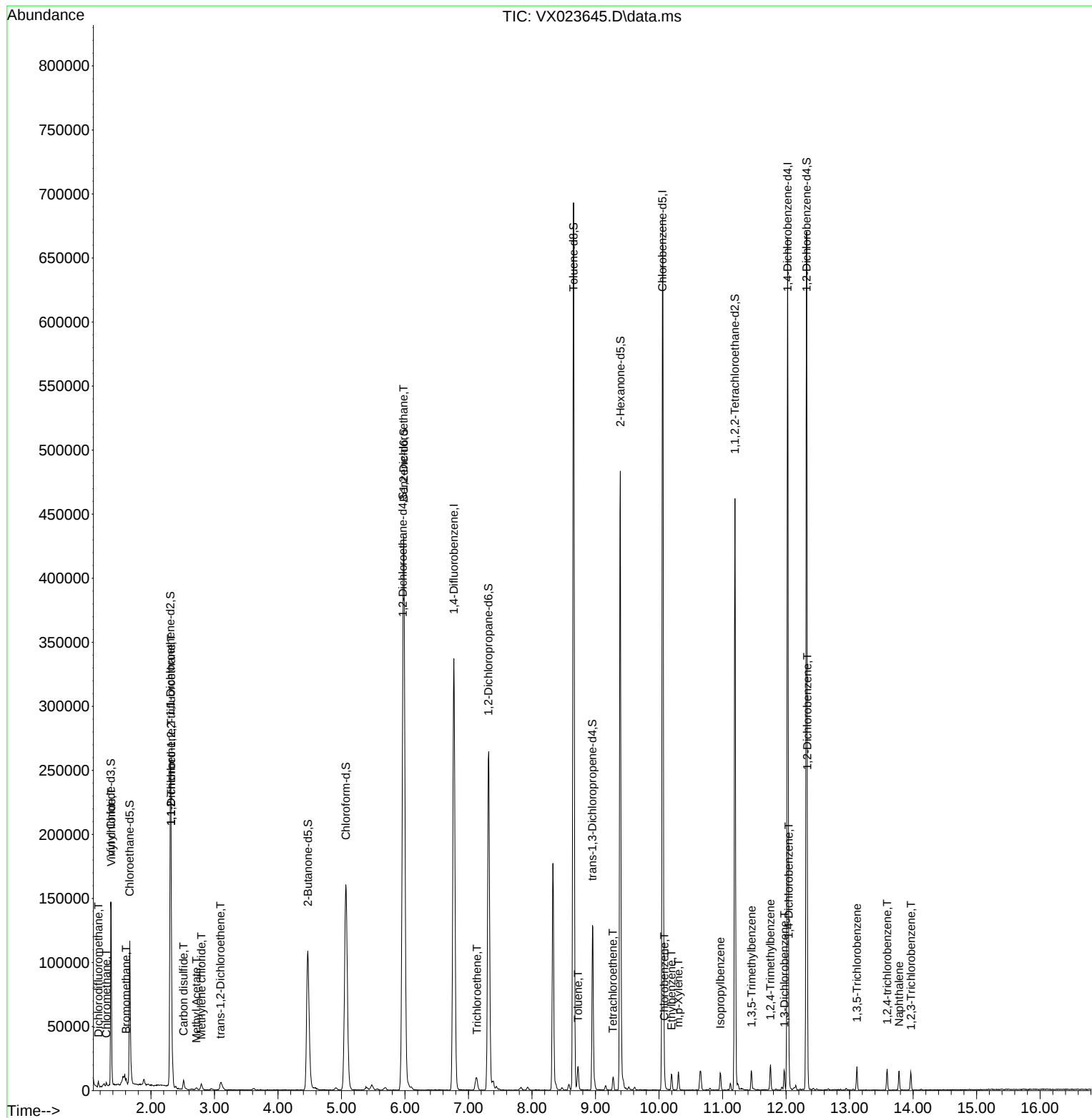
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| -----                      |        |      |          |       |        |          |
| 63) 1,2,4-Trimethylbenzene | 11.756 | 105  | 7041     | 0.951 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene    | 11.976 | 146  | 4935     | 1.256 | ug/L   | 87       |
| 65) 1,4-Dichlorobenzene    | 12.043 | 146  | 5669     | 1.449 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene    | 12.335 | 146  | 3837     | 0.994 | ug/L # | 70       |
| 69) 1,3,5-Trichlorobenzene | 13.116 | 180  | 4306     | 1.587 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene | 13.591 | 180  | 3784     | 1.619 | ug/L   | 93       |
| 71) Naphthalene            | 13.780 | 128  | 9194     | 1.135 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene | 13.969 | 180  | 3394     | 1.410 | ug/L   | 98       |
| -----                      |        |      |          |       |        |          |

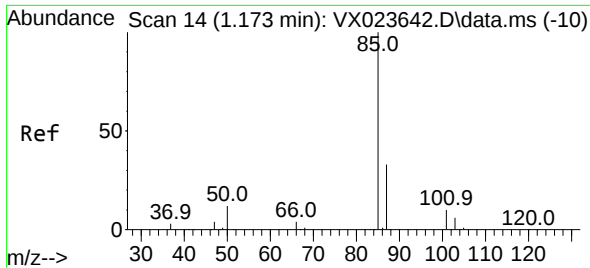
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Quant Title : VOC Analysis  
QLast Update : Wed Aug 11 12:02:06 2021  
Response via : Initial Calibration

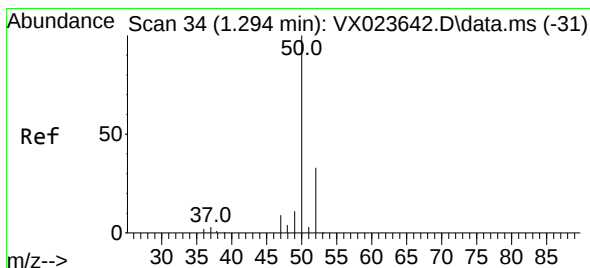
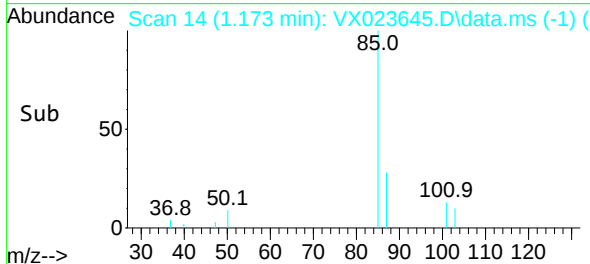
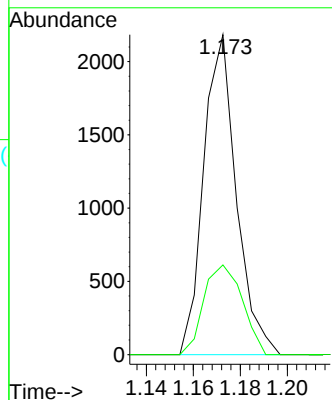
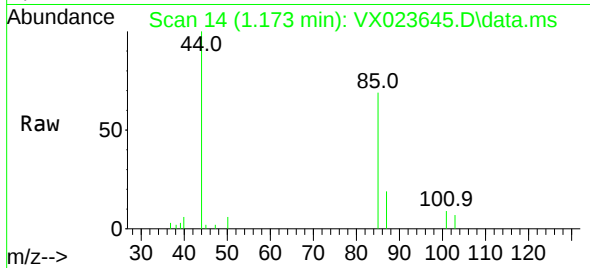




#2  
Dichlorodifluoromethane  
Concen: 1.017 ug/L  
RT: 1.173 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

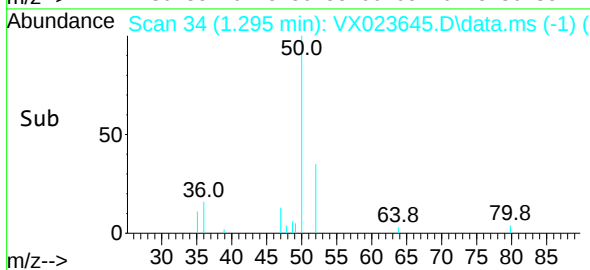
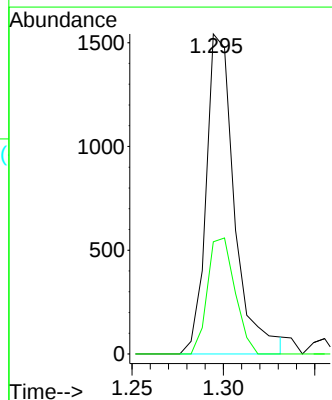
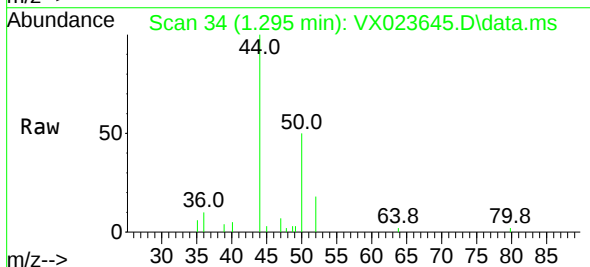
Instrument :  
MSVOA\_X  
ClientSampled :

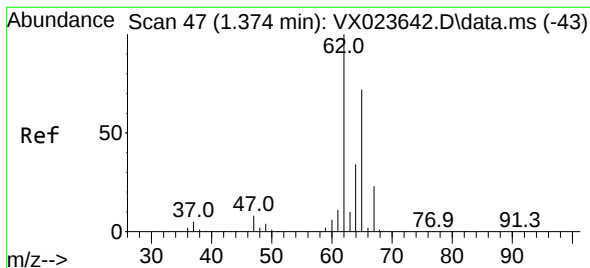
Tgt Ion: 85 Resp: 2110  
Ion Ratio Lower Upper  
85 100  
87 33.0 25.9 38.9



#3  
Chloromethane  
Concen: 0.846 ug/L  
RT: 1.295 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion: 50 Resp: 1669  
Ion Ratio Lower Upper  
50 100  
52 35.1 23.7 43.9

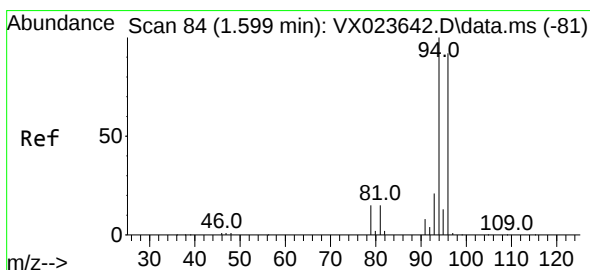
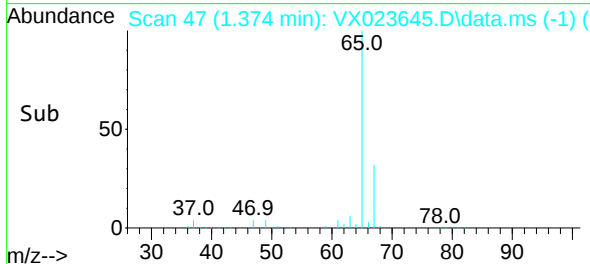
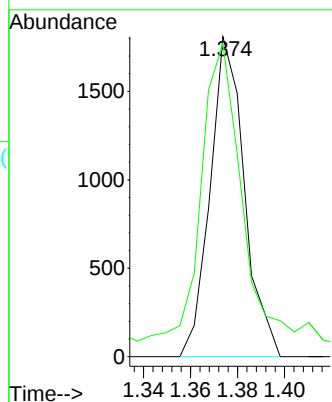
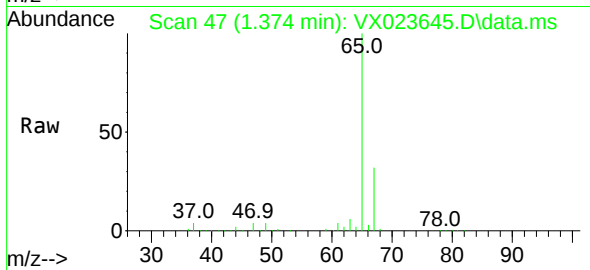




#5  
 Vinyl chloride  
 Concen: 0.912 ug/L  
 RT: 1.374 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: VX023645.D  
 Acq: 11 Aug 2021 10:54

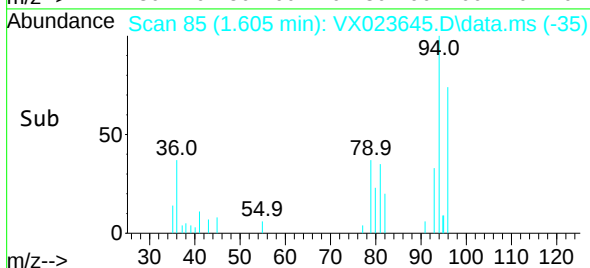
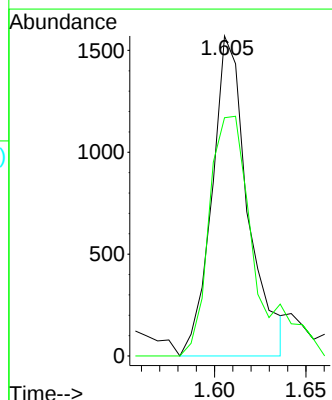
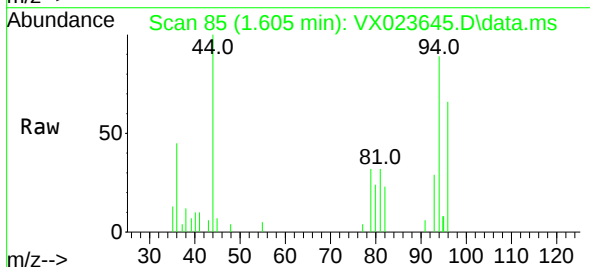
Instrument :  
 MSVOA\_X  
 ClientSampled :

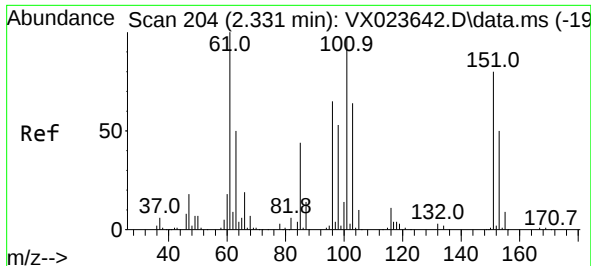
Tgt Ion: 62 Resp: 1829  
 Ion Ratio Lower Upper  
 62 100  
 64 97.8 22.7 42.3#



#6  
 Bromomethane  
 Concen: 1.722 ug/L  
 RT: 1.605 min Scan# 85  
 Delta R.T. 0.006 min  
 Lab File: VX023645.D  
 Acq: 11 Aug 2021 10:54

Tgt Ion: 94 Resp: 2144  
 Ion Ratio Lower Upper  
 94 100  
 96 74.5 64.8 120.3





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.801 ug/L

RT: 2.319 min Scan# 202

Delta R.T. -0.012 min

Lab File: VX023645.D

Acq: 11 Aug 2021 10:54

Tgt Ion:101 Resp: 3536

Ion Ratio Lower Upper

101 100

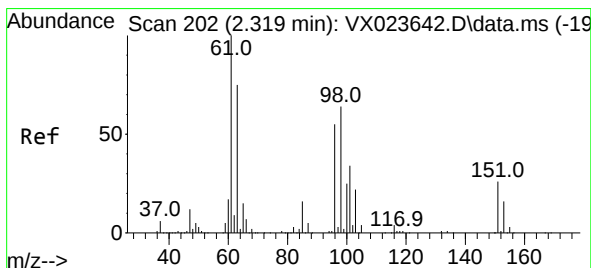
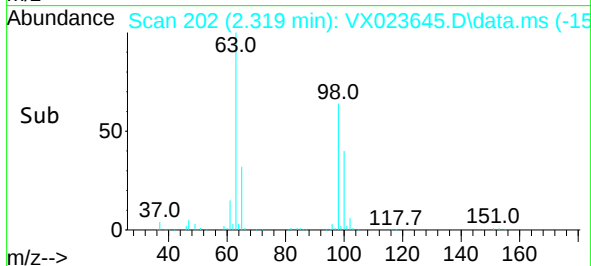
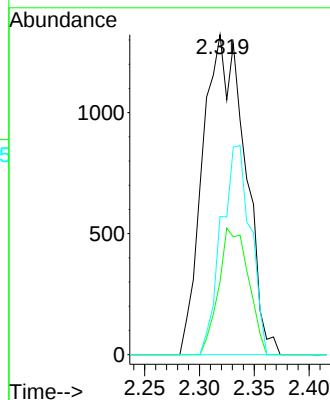
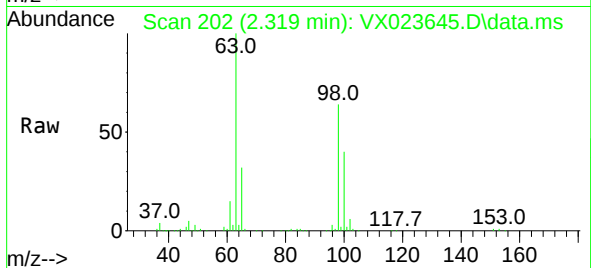
85 27.9 34.3 51.5#

151 45.5 60.7 91.1#

Instrument :

MSVOA\_X

ClientSampleId :



#12

1,1-Dichloroethene

Concen: 1.655 ug/L

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX023645.D

Acq: 11 Aug 2021 10:54

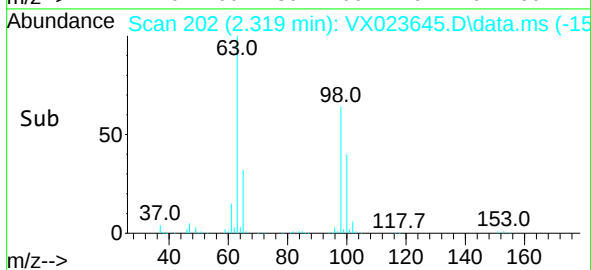
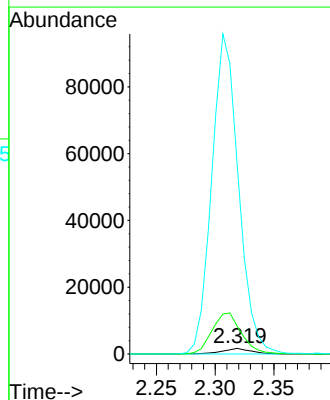
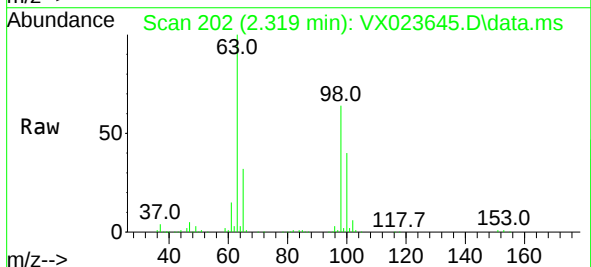
Tgt Ion: 96 Resp: 2810

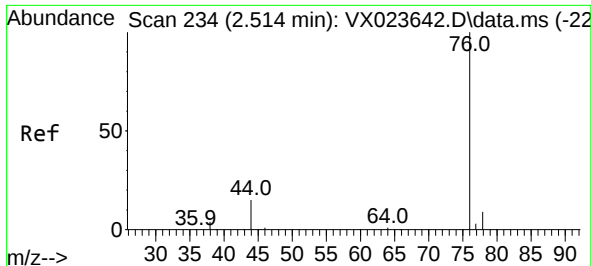
Ion Ratio Lower Upper

96 100

61 491.1 115.5 214.5#

63 3354.0 77.3 143.7#

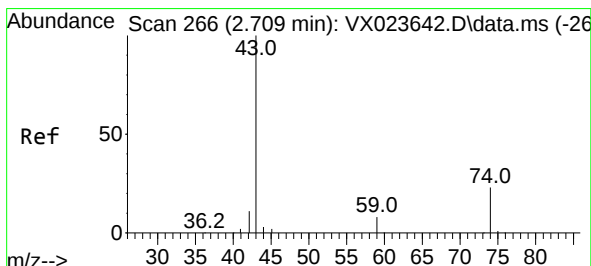
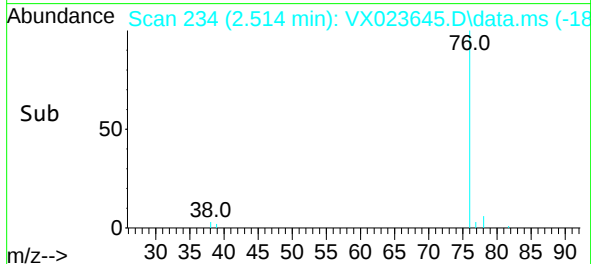
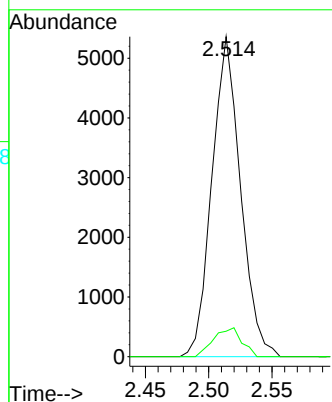
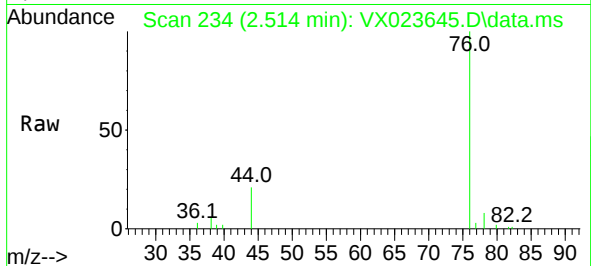




#14  
Carbon disulfide  
Concen: 2.467 ug/L  
RT: 2.514 min Scan# 234  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

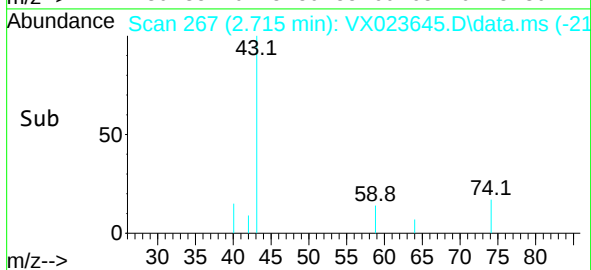
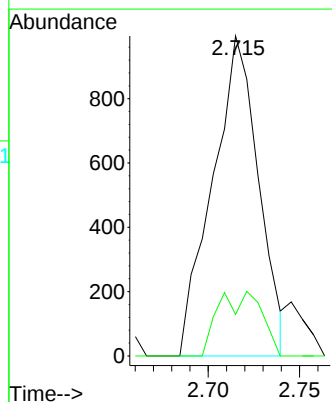
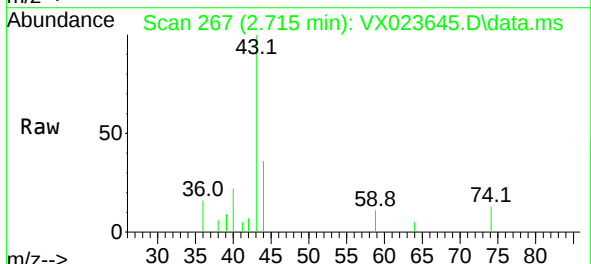
Instrument :  
MSVOA\_X  
ClientSampled :

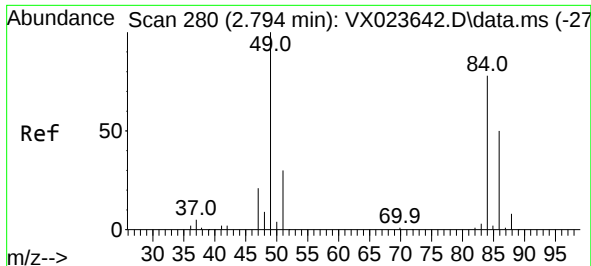
Tgt Ion: 76 Resp: 8421  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.6 11.4



#15  
Methyl Acetate  
Concen: 0.707 ug/L  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion: 43 Resp: 1740  
Ion Ratio Lower Upper  
43 100  
74 9.5 21.7 32.5#

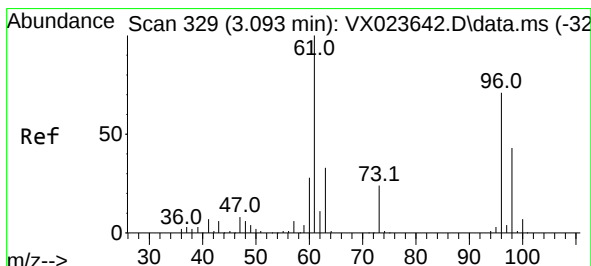
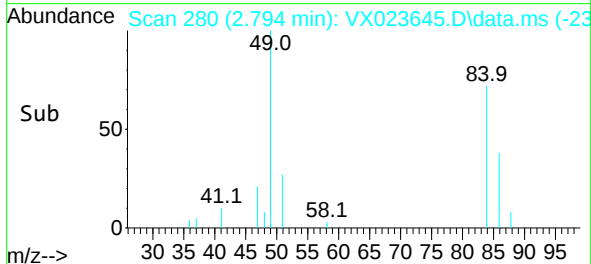
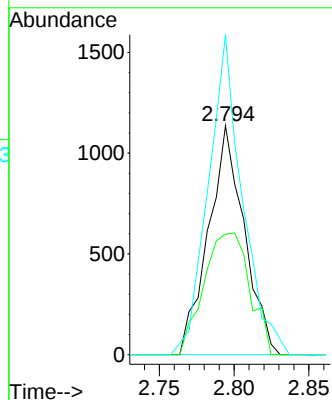
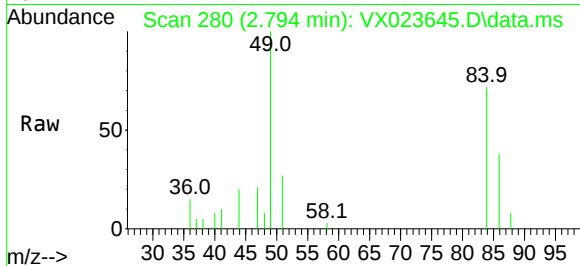




#16  
Methylene chloride  
Concen: 0.893 ug/L  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

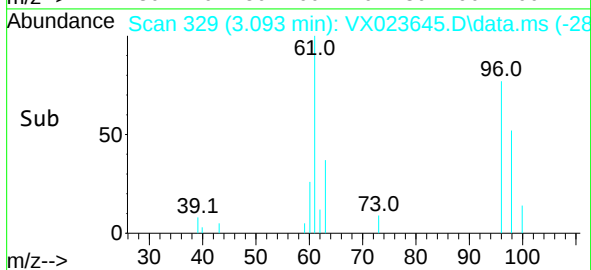
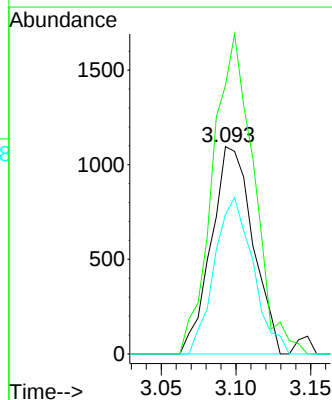
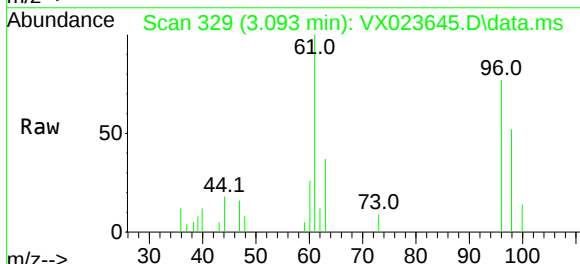
Instrument :  
MSVOA\_X  
ClientSampled :

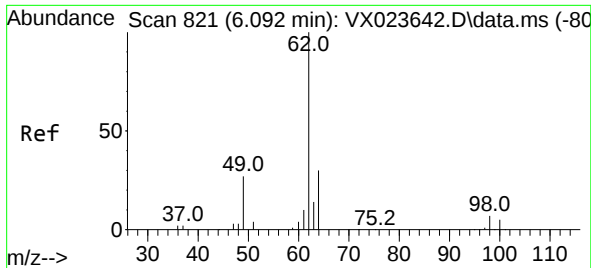
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1889  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 86       | 52.6  | 44.2  | 82.0  |
| 49       | 139.8 | 77.8  | 144.6 |



#17  
trans-1,2-Dichloroethene  
Concen: 1.177 ug/L  
RT: 3.093 min Scan# 329  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2116  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 129.5 | 92.3  | 171.3 |
| 98       | 67.2  | 46.3  | 85.9  |





#27

1,2-Dichloroethane

Concen: 0.783 ug/L

RT: 5.977 min Scan# 802

Delta R.T. -0.116 min

Lab File: VX023645.D

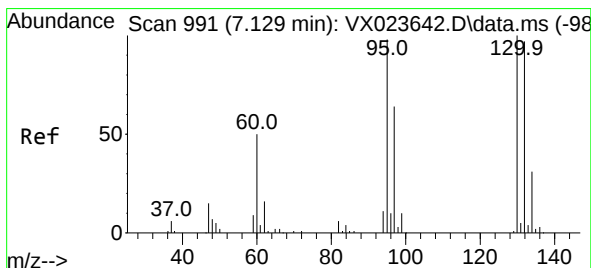
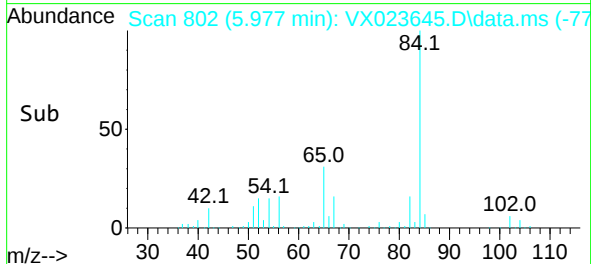
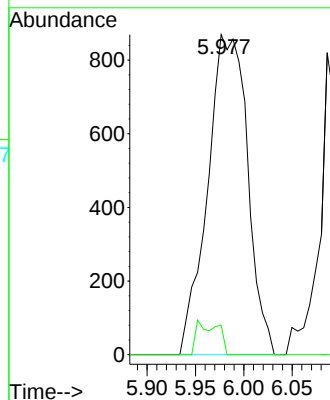
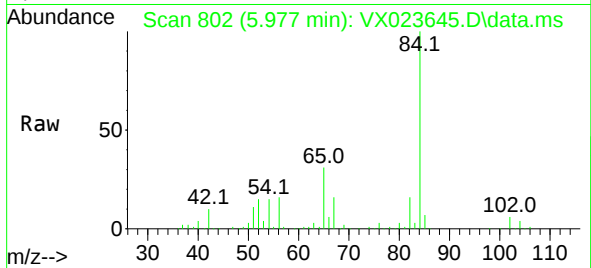
Acq: 11 Aug 2021 10:54

Tgt Ion: 62 Resp: 2499

Ion Ratio Lower Upper

62 100

98 9.2 7.9 11.9



#34

Trichloroethene

Concen: 1.032 ug/L

RT: 7.135 min Scan# 992

Delta R.T. 0.006 min

Lab File: VX023645.D

Acq: 11 Aug 2021 10:54

Tgt Ion: 95 Resp: 2207

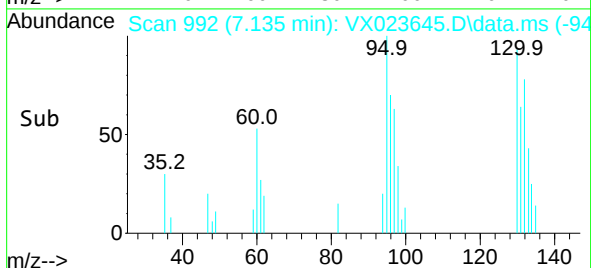
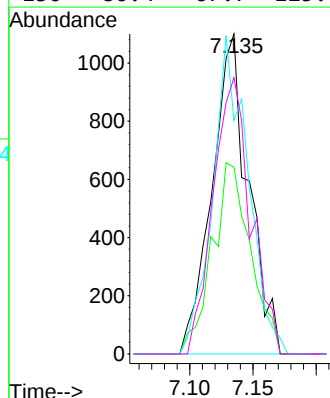
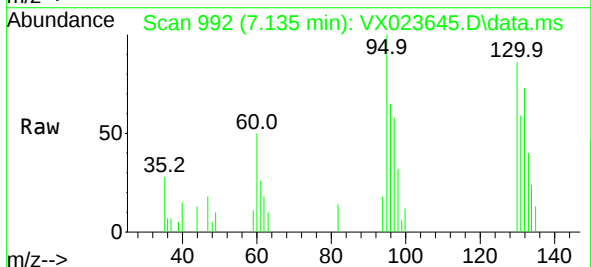
Ion Ratio Lower Upper

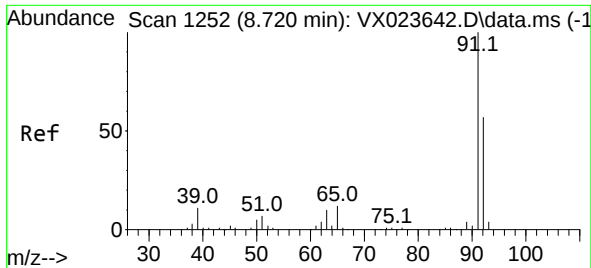
95 100

97 58.4 44.5 82.7

132 73.0 65.2 121.0

130 86.4 67.7 125.7

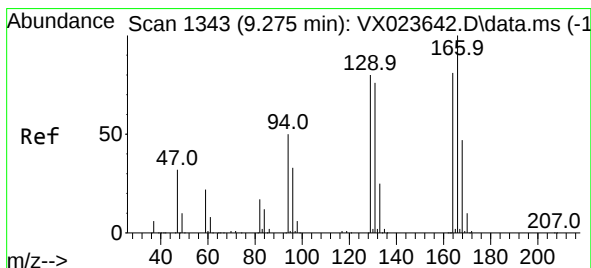
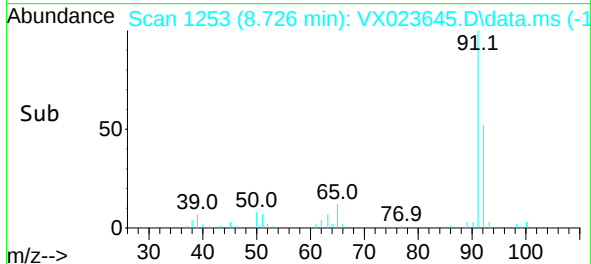
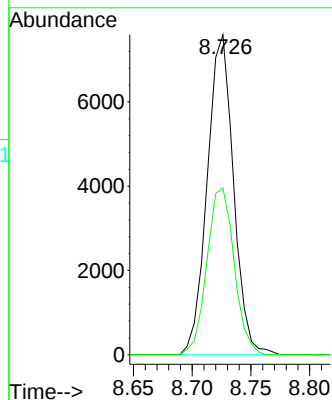
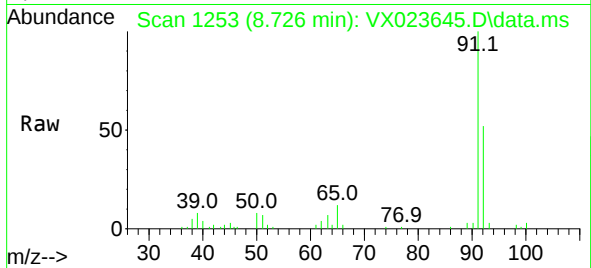




#42  
Toluene  
Concen: 1.333 ug/L  
RT: 8.726 min Scan# 1253  
Delta R.T. 0.006 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

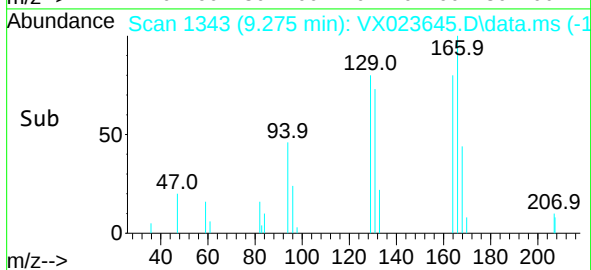
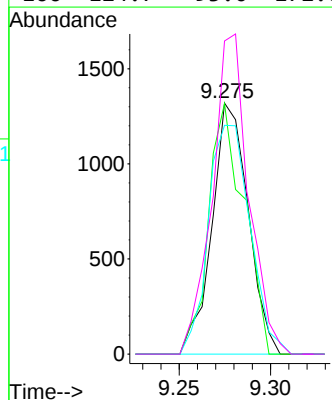
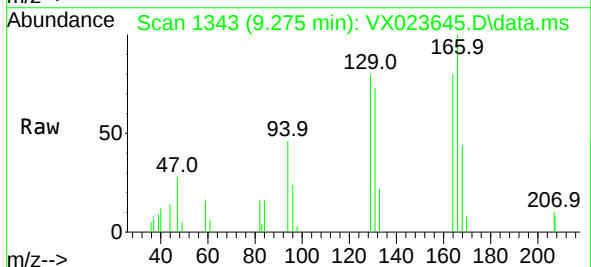
Instrument :  
MSVOA\_X  
ClientSampled :

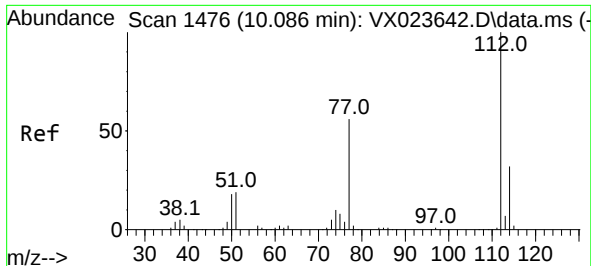
Tgt Ion: 91 Resp: 11817  
Ion Ratio Lower Upper  
91 100  
92 52.0 40.5 75.1



#46  
Tetrachloroethene  
Concen: 1.123 ug/L  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion: 164 Resp: 1822  
Ion Ratio Lower Upper  
164 100  
129 99.8 65.6 121.8  
131 91.1 63.7 118.3  
166 124.7 93.0 172.6

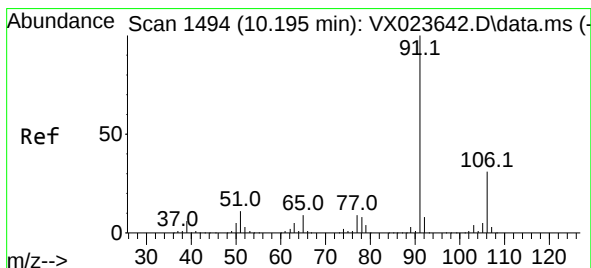
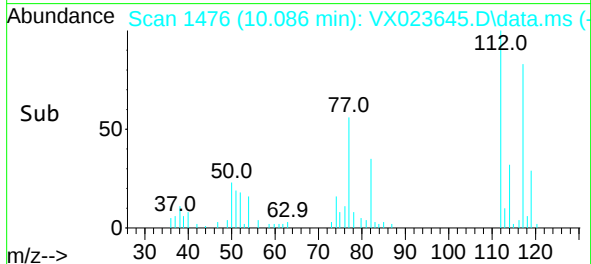
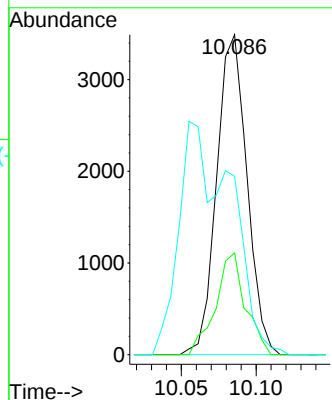
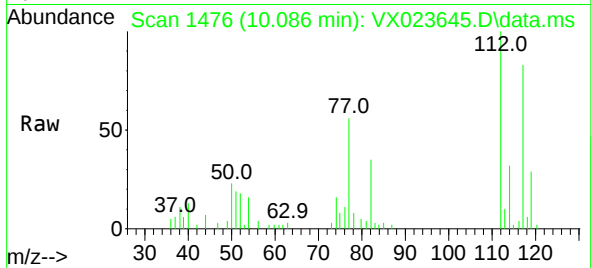




#51  
Chlorobenzene  
Concen: 0.834 ug/L  
RT: 10.086 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

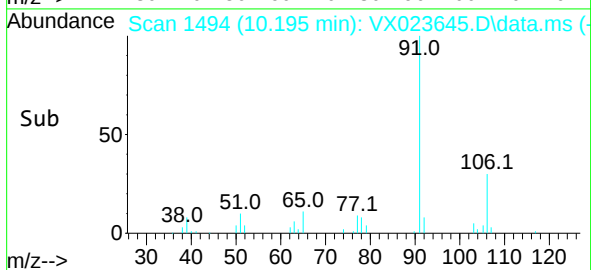
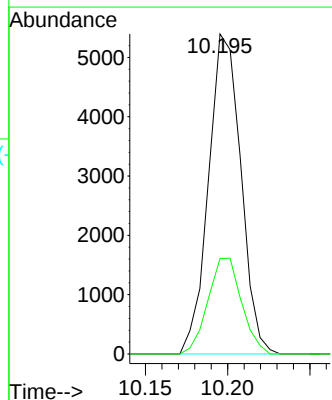
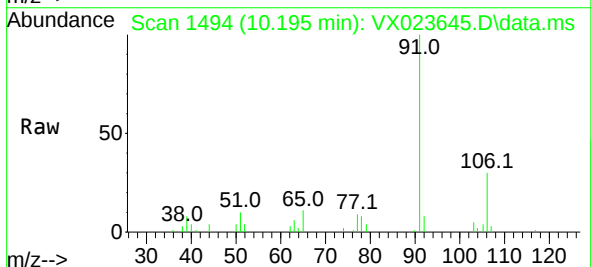
Instrument :  
MSVOA\_X  
ClientSampled :

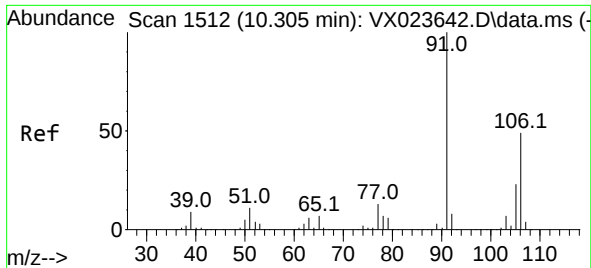
Tgt Ion:112 Resp: 4913  
Ion Ratio Lower Upper  
112 100  
114 31.8 23.2 43.2  
77 55.7 48.4 72.6



#52  
Ethylbenzene  
Concen: 0.760 ug/L  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion: 91 Resp: 7370  
Ion Ratio Lower Upper  
91 100  
106 29.9 21.0 39.0

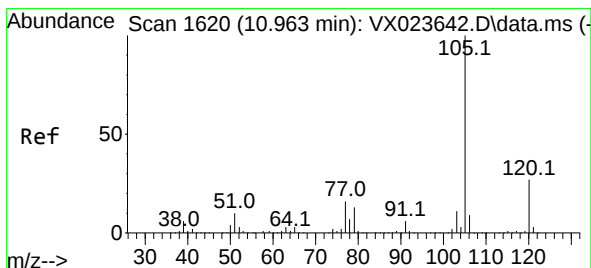
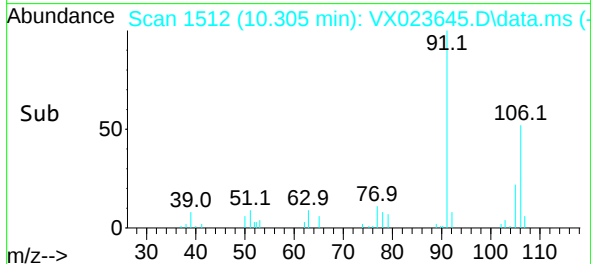
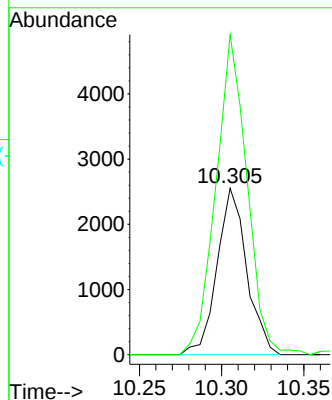
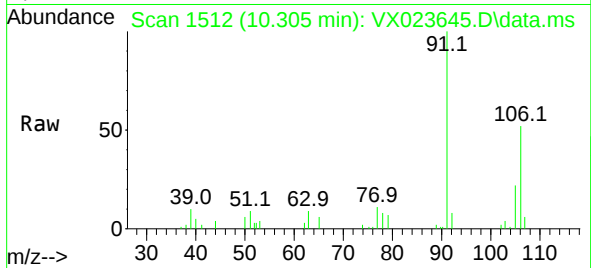




#53  
m,p-Xylene  
Concen: 0.868 ug/L  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

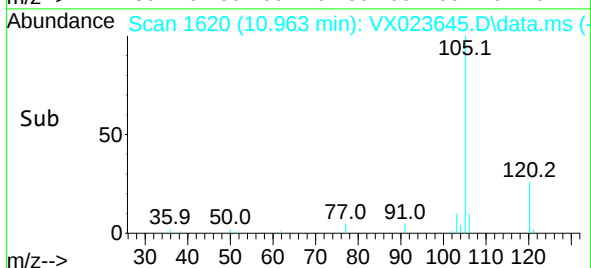
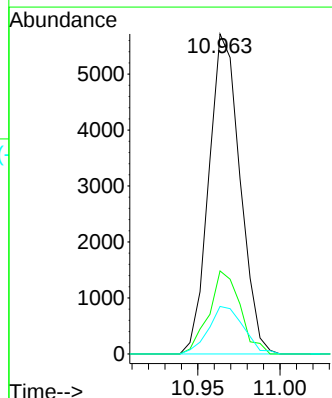
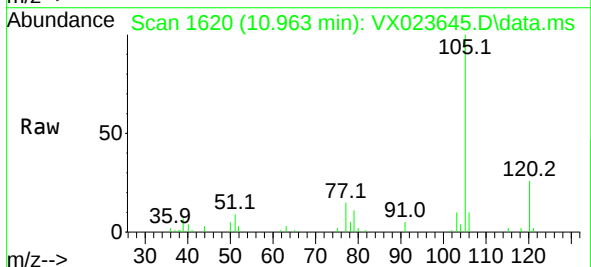
Instrument :  
MSVOA\_X  
ClientSampled :

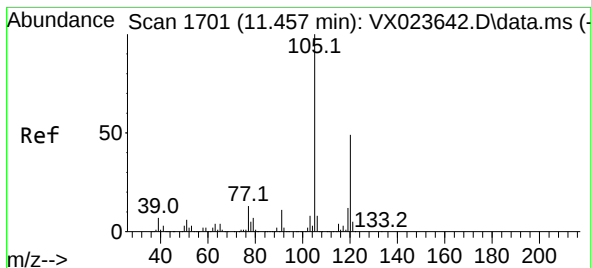
Tgt Ion:106 Resp: 3211  
Ion Ratio Lower Upper  
106 100  
91 192.4 142.5 264.6



#60  
Isopropylbenzene  
Concen: 0.839 ug/L  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion:105 Resp: 7546  
Ion Ratio Lower Upper  
105 100  
120 26.0 21.2 31.8  
77 16.6 12.6 18.8

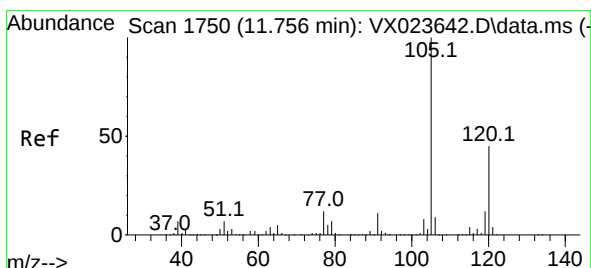
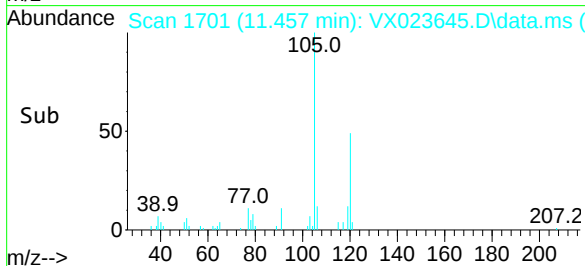
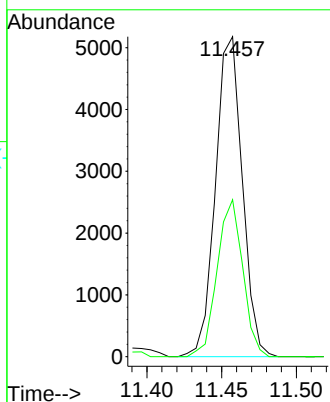
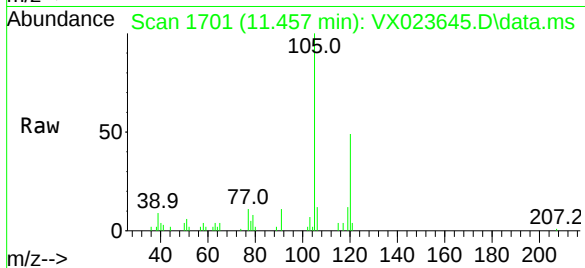




#62  
1,3,5-Trimethylbenzene  
Concen: 0.888 ug/L  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

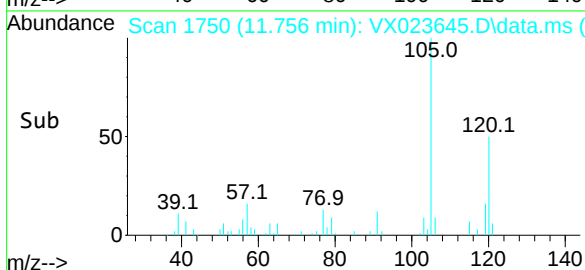
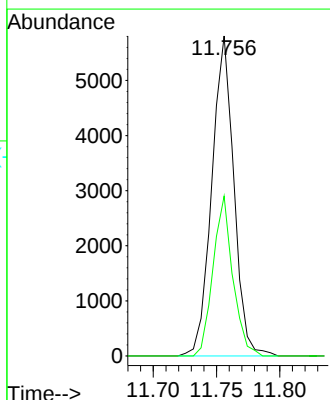
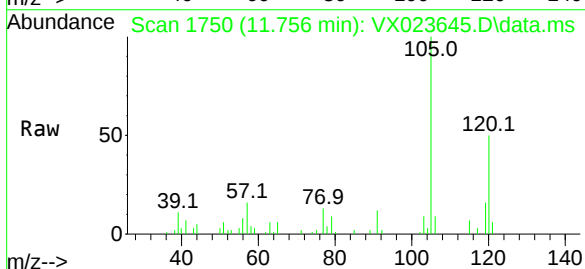
Instrument :  
MSVOA\_X  
ClientSampled :

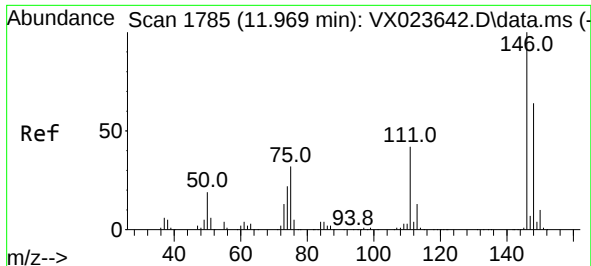
Tgt Ion:105 Resp: 6465  
Ion Ratio Lower Upper  
105 100  
120 46.7 38.0 57.0



#63  
1,2,4-Trimethylbenzene  
Concen: 0.951 ug/L  
RT: 11.756 min Scan# 1750  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion:105 Resp: 7041  
Ion Ratio Lower Upper  
105 100  
120 44.7 36.4 54.6

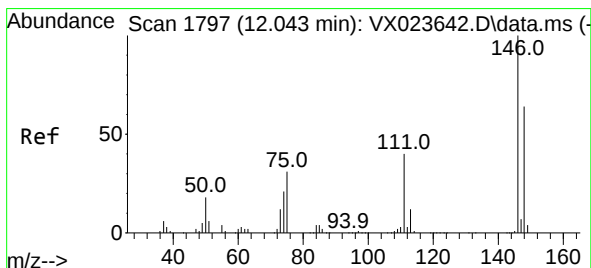
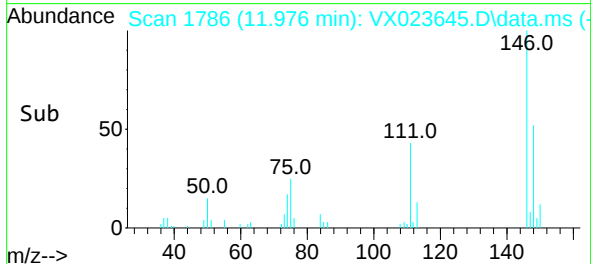
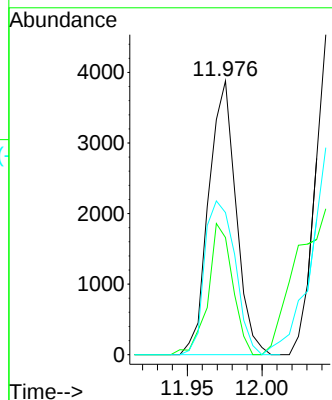
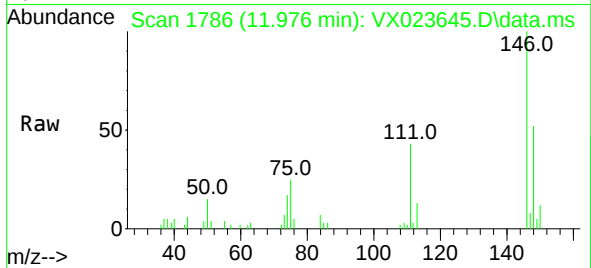




#64  
1,3-Dichlorobenzene  
Concen: 1.256 ug/L  
RT: 11.976 min Scan# 1786  
Delta R.T. 0.006 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

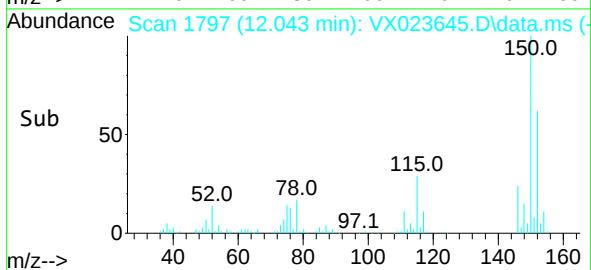
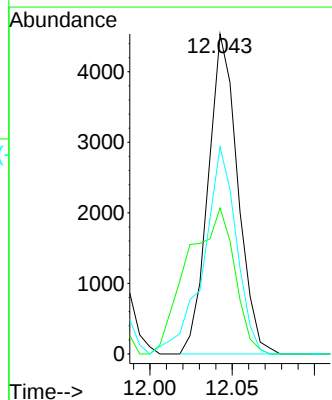
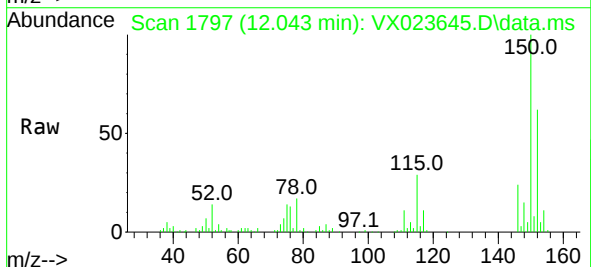
Instrument :  
MSVOA\_X  
ClientSampled :

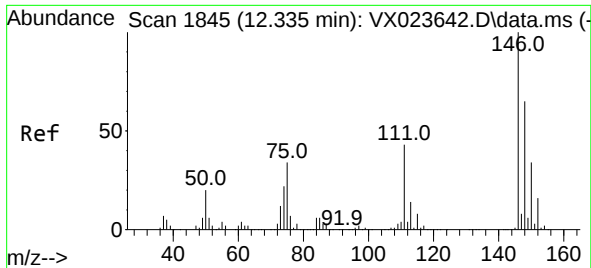
Tgt Ion:146 Resp: 4935  
Ion Ratio Lower Upper  
146 100  
111 42.8 28.9 53.7  
148 51.9 47.7 88.7



#65  
1,4-Dichlorobenzene  
Concen: 1.449 ug/L  
RT: 12.043 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion:146 Resp: 5669  
Ion Ratio Lower Upper  
146 100  
111 45.6 28.7 53.3  
148 64.7 45.8 85.2

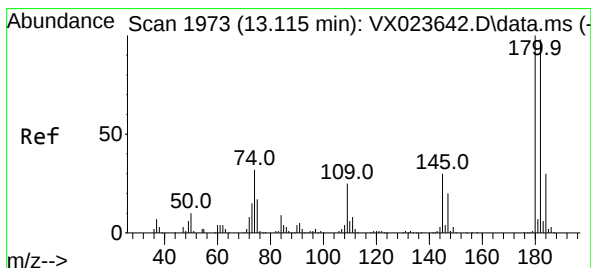
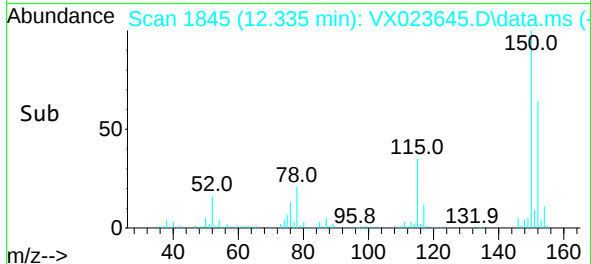
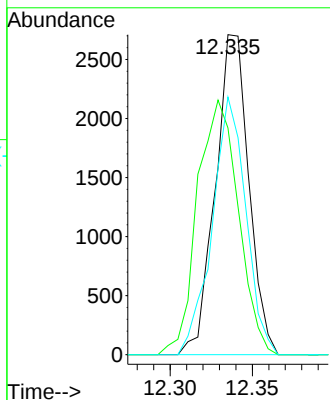
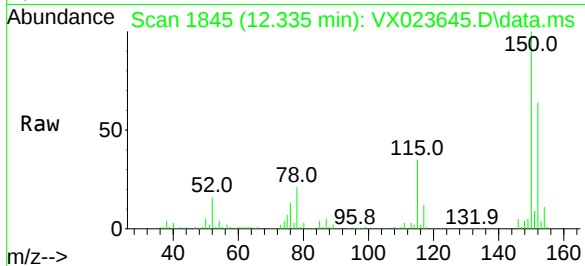




#67  
1,2-Dichlorobenzene  
Concen: 0.994 ug/L  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

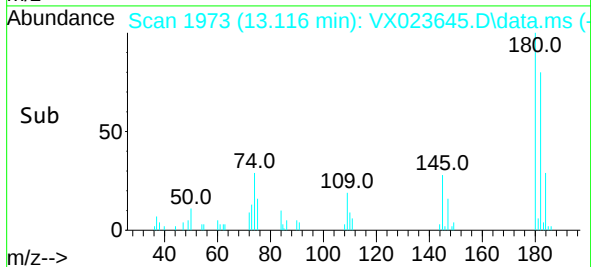
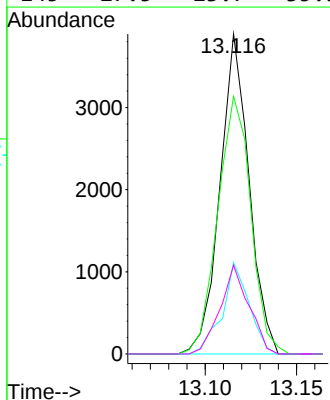
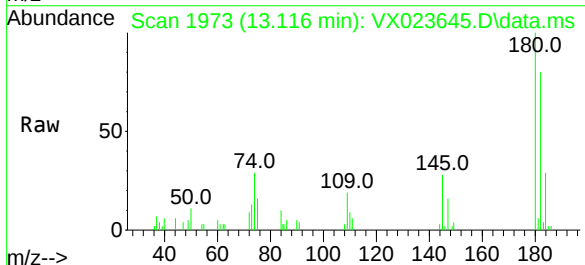
Instrument :  
MSVOA\_X  
ClientSampled :

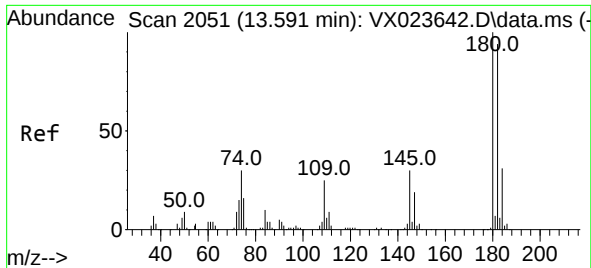
Tgt Ion:146 Resp: 3837  
Ion Ratio Lower Upper  
146 100  
111 70.8 33.8 50.8#  
148 80.5 51.4 77.2#



#69  
1,3,5-Trichlorobenzene  
Concen: 1.587 ug/L  
RT: 13.116 min Scan# 1973  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

Tgt Ion:180 Resp: 4306  
Ion Ratio Lower Upper  
180 100  
182 91.4 74.8 112.2  
184 26.5 24.1 36.1  
145 27.5 23.7 35.5

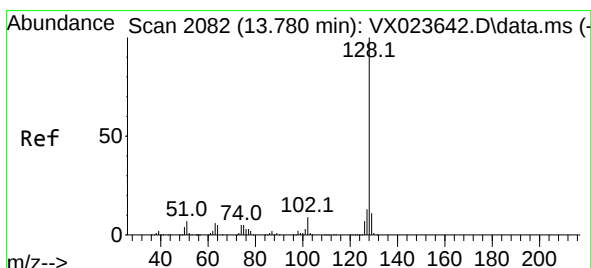
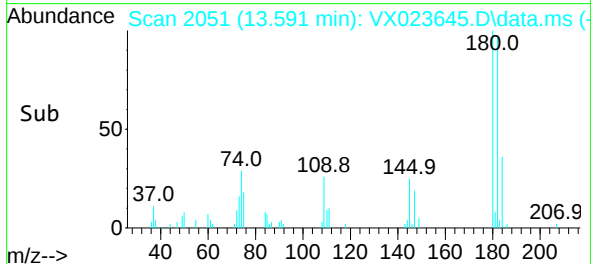
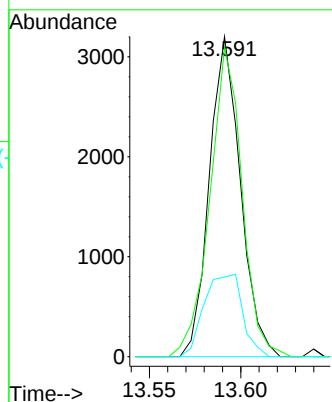
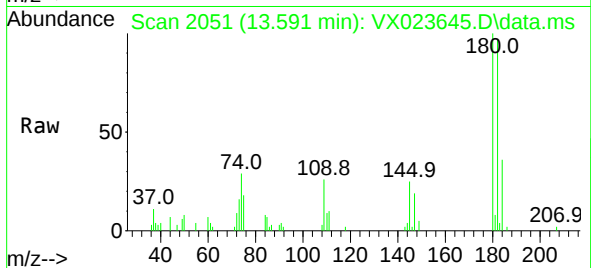




#70  
1,2,4-trichlorobenzene  
Concen: 1.619 ug/L  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

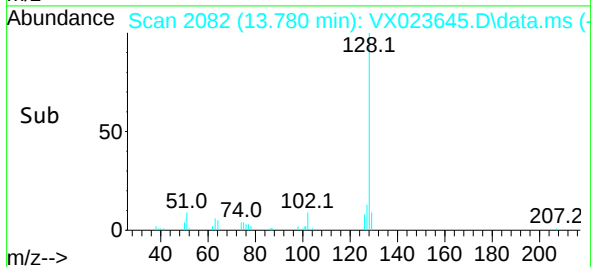
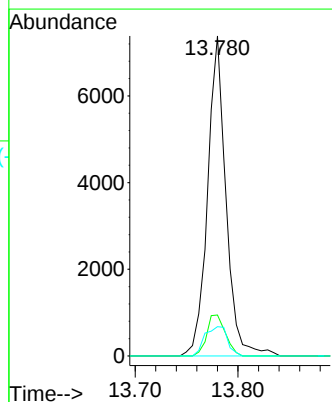
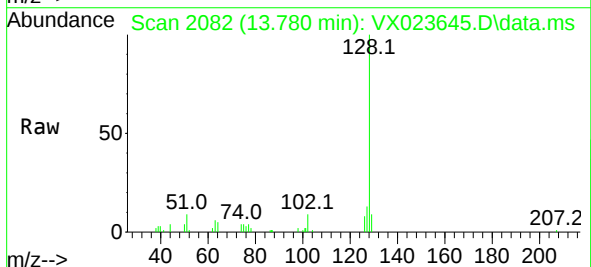
Instrument :  
MSVOA\_X  
ClientSampled :

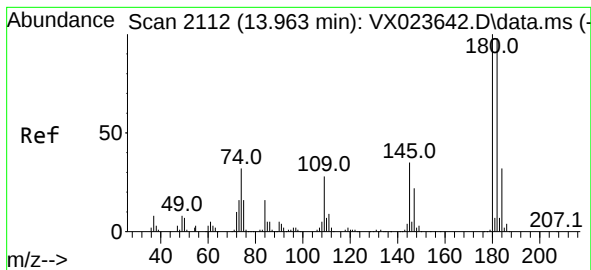
Tgt Ion:180 Resp: 3784  
Ion Ratio Lower Upper  
180 100  
182 100.4 74.3 111.5  
145 31.7 24.1 36.1



#71  
Naphthalene  
Concen: 1.135 ug/L  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX023645.D  
Acq: 11 Aug 2021 10:54

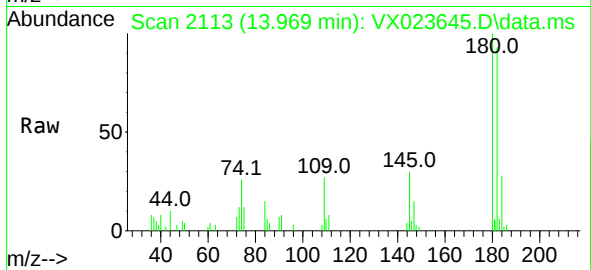
Tgt Ion:128 Resp: 9194  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.2  
129 11.3 8.6 13.0





#72  
 1,2,3-Trichlorobenzene  
 Concen: 1.410 ug/L  
 RT: 13.969 min Scan# 2113  
 Delta R.T. 0.006 min  
 Lab File: VX023645.D  
 Acq: 11 Aug 2021 10:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 3394  
 Ion Ratio Lower Upper  
 180 100  
 182 94.2 74.6 112.0  
 145 34.9 25.6 38.4

