

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102120\  
 Data File : VV019054.D  
 Acq On : 21 Oct 2020 17:20  
 Operator : SY/MD  
 Sample : L4483-04  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0FH2

Quant Time: Oct 22 06:10:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 22 06:00:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 275810   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 318497   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 147095   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 128190   | 56.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 112.92% |
| 7) Chloroethane-d5             | 1.58    | 69    | 109670   | 60.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 121.94% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 199178   | 46.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.94%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 172513   | 109.01   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 109.01% |
| 24) Chloroform-d               | 4.38    | 84    | 237744   | 58.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 116.56% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 154480   | 57.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.10% |
| 32) Benzene-d6                 | 5.08    | 84    | 415535   | 44.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 125546   | 42.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 84.46%  |
| 41) Toluene-d8                 | 7.34    | 98    | 431497   | 51.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.46% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 74214    | 51.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.14% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 99363    | 89.97    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.97%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 159268   | 45.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.42%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 166221   | 55.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 111.08% |

## Target Compounds

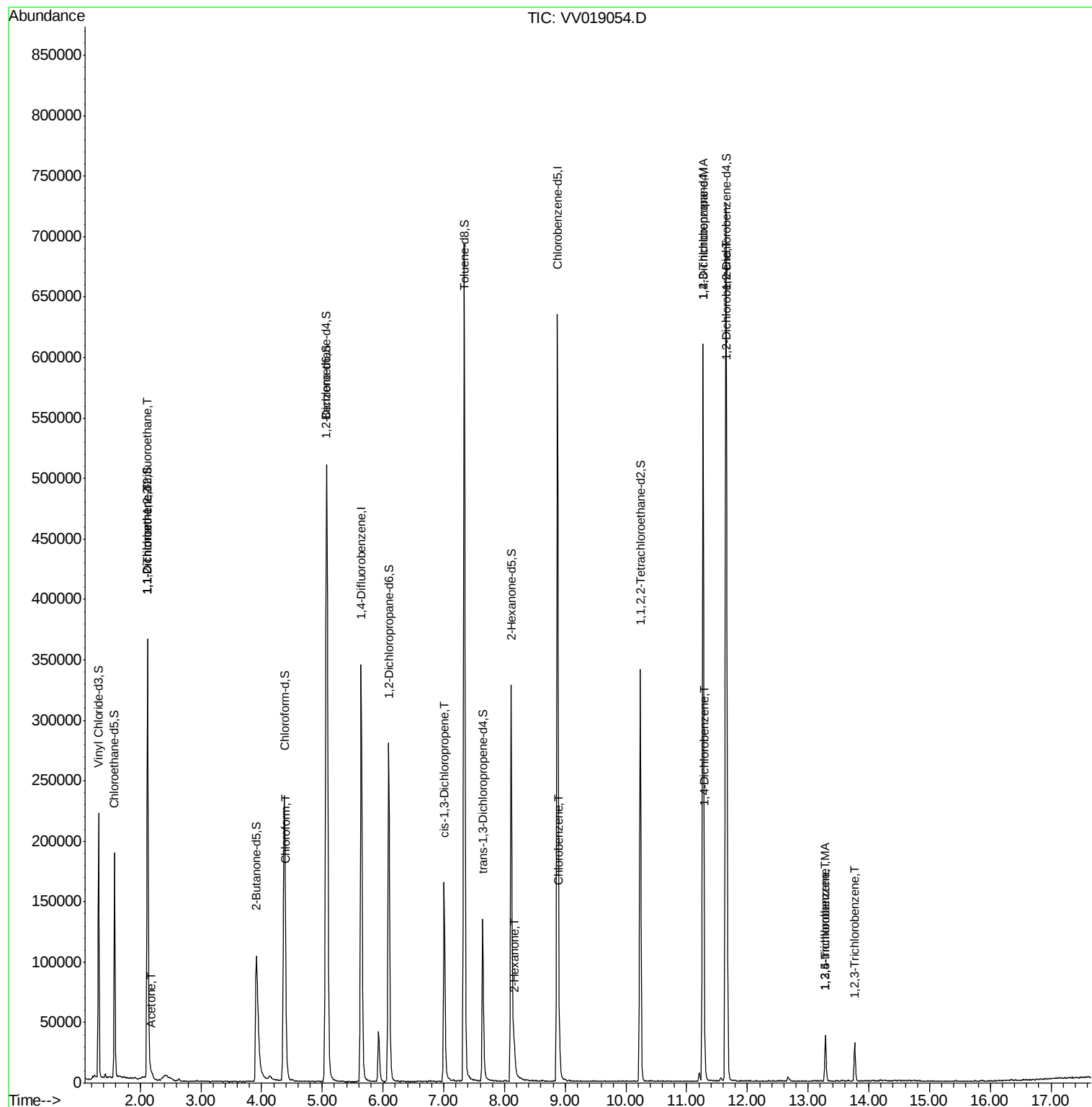
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1679     | 0.938  | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.12  | 96   | 1548     | 0.854  | ug/L # | 1      |
| 13) Acetone                    | 2.20  | 43   | 5883     | 5.087  | ug/L   | 76     |
| 25) Chloroform                 | 4.40  | 83   | 9393     | 2.385  | ug/L   | 90     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 4410     | 1.123  | ug/L # | 70     |
| 48) 2-Hexanone                 | 8.16  | 43   | 15032    | 5.260  | ug/L # | 94     |
| 51) Chlorobenzene              | 8.90  | 112  | 12831    | 1.952  | ug/L   | 95     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75   | 20814    | 6.579  | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 8144     | 1.699  | ug/L   | 93     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 79899    | 17.367 | ug/L   | 97     |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180  | 11190    | 3.653  | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 11190    | 3.964  | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 9268     | 3.285  | ug/L   | 99     |

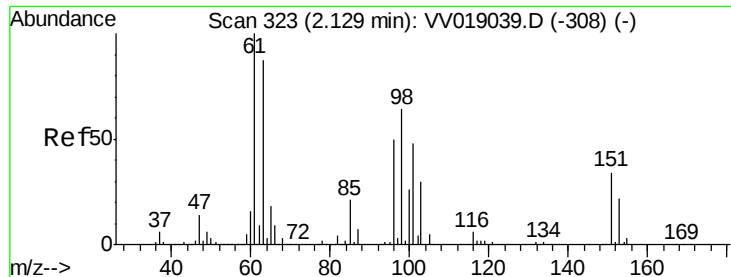
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV102120\  
Data File : VV019054.D  
Acq On : 21 Oct 2020 17:20  
Operator : SY/MD  
Sample : L4483-04  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0FH2

Quant Time: Oct 22 06:10:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 22 06:00:52 2020  
Response via : Initial Calibration





#10

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

Concen: 0.938 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV019054.D

Acq: 21 Oct 2020 17:20

Instrument :

MSVOA\_V

ClientSampleId :

C0FH2

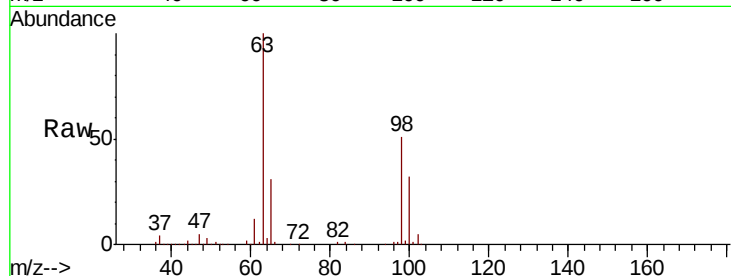
Tot Ion:101 Resp: 1679

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

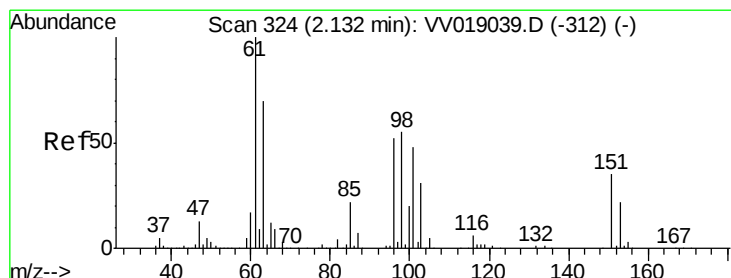
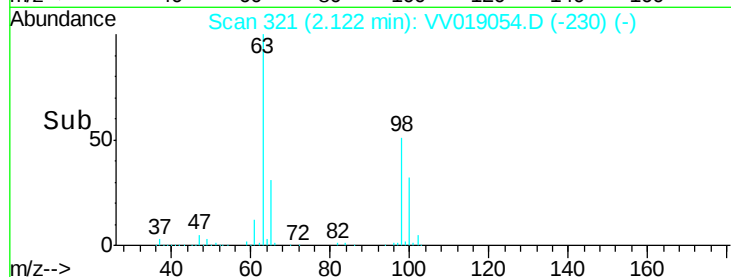
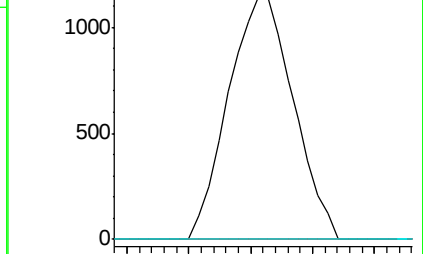
151 0.0 59.7 89.5#



Abundance Ion 101.00 (100.70 to 101.70): VV019039.D (-308) (-)

Ion 85.00 (84.70 to 85.70): VV019039.D (-308) (-)

Ion 151.00 (150.70 to 151.70): VV019039.D (-308) (-)



#12

1,1-Dichloroethene

Concen: 0.854 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV019054.D

Acq: 21 Oct 2020 17:20

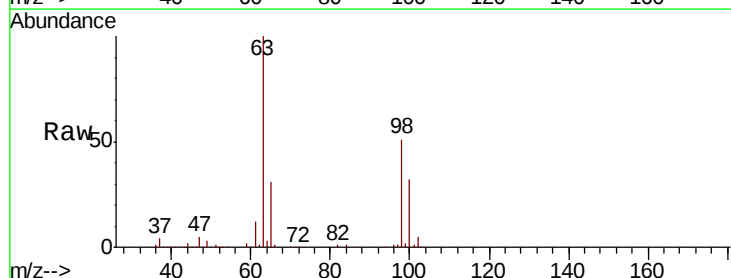
Tgt Ion: 96 Resp: 1548

Ion Ratio Lower Upper

96 100

61 1541.5 133.5 247.9#

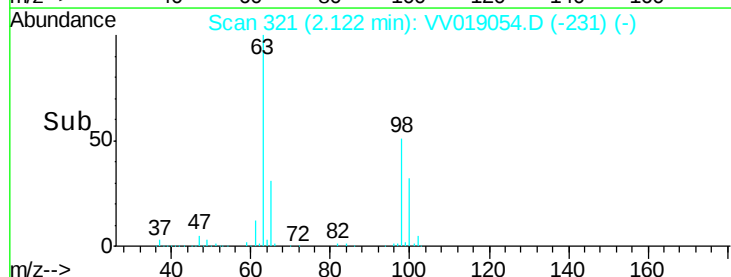
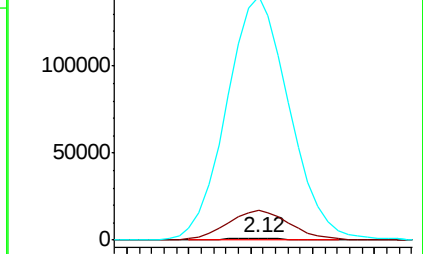
63 12794.1 102.1 189.7#

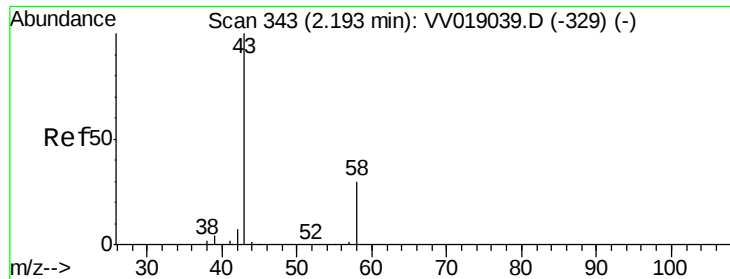


Abundance Ion 96.00 (95.70 to 96.70): VV019039.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV019039.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV019039.D (-312) (-)





#13

Acetone

Concen: 5.087 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV019054.D

Acq: 21 Oct 2020 17:20

Instrument :

MSVOA\_V

ClientSampleId :

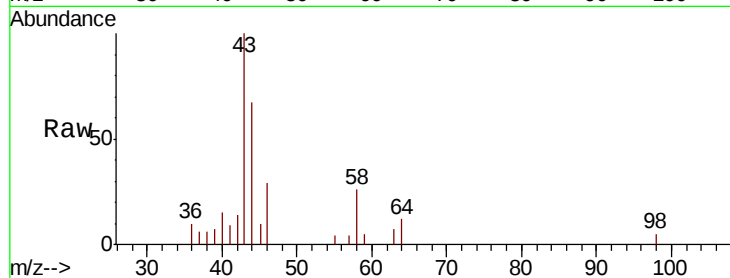
C0FH2

Tot Ion: 43 Resp: 5883

Ion Ratio Lower Upper

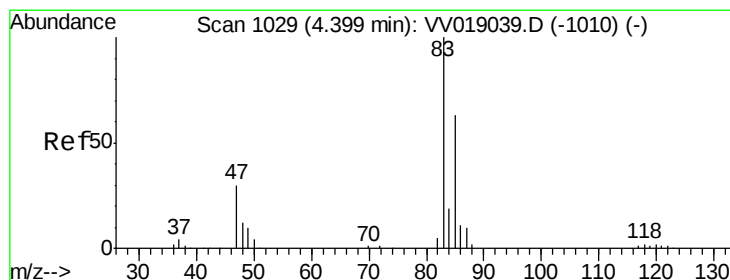
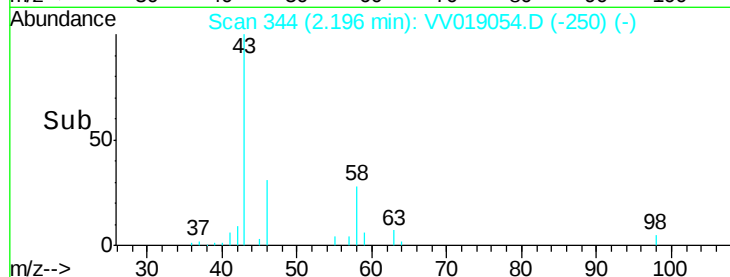
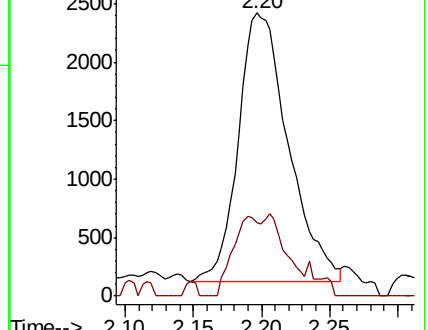
43 100

58 16.3 0.0 58.8



Abundance Ion 43.00 (42.70 to 43.70): VV019039.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019039.D (-329) (-)



#25

Chloroform

Concen: 2.385 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VV019054.D

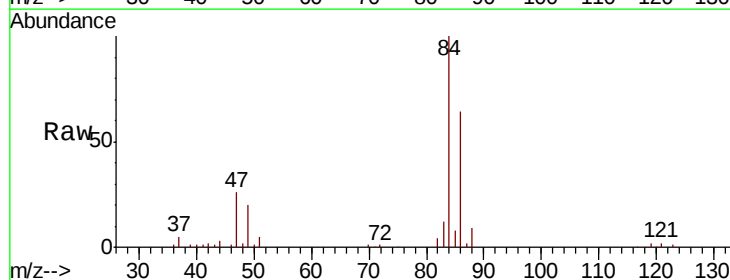
Acq: 21 Oct 2020 17:20

Tgt Ion: 83 Resp: 9393

Ion Ratio Lower Upper

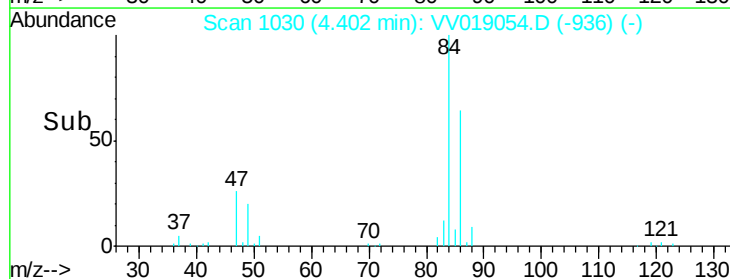
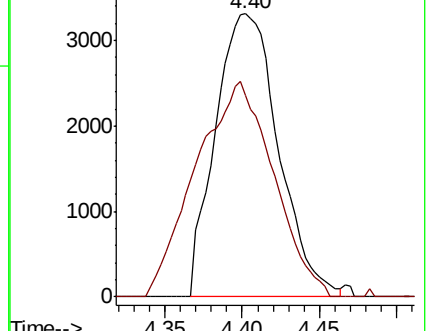
83 100

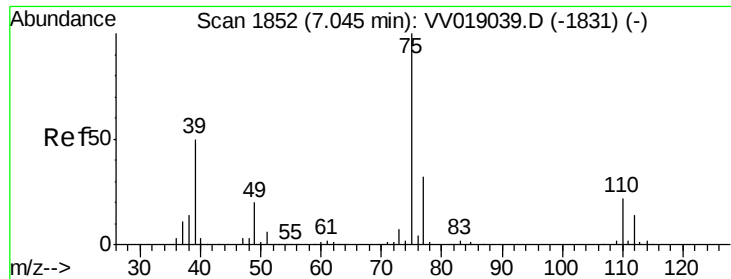
85 71.3 44.6 82.8



Abundance Ion 83.00 (82.70 to 83.70): VV019039.D (-1010) (-)

Ion 85.00 (84.70 to 85.70): VV019039.D (-1010) (-)

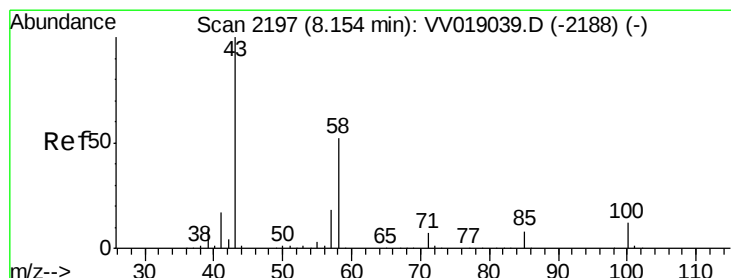
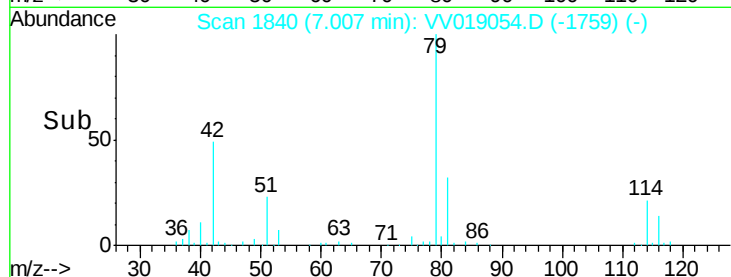
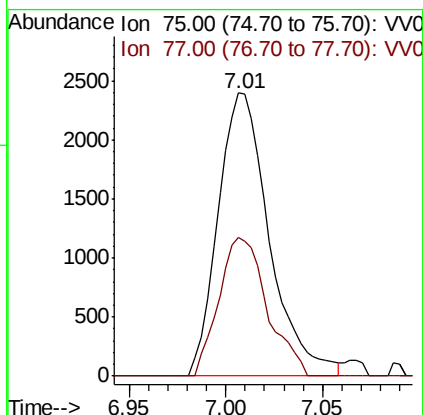
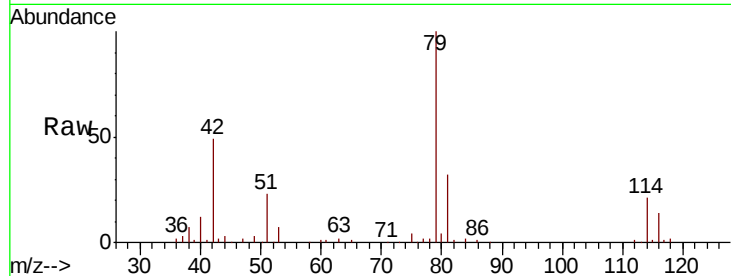




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.123 ug/L  
 RT: 7.01 min Scan# 1840  
 Delta R.T. -0.04 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

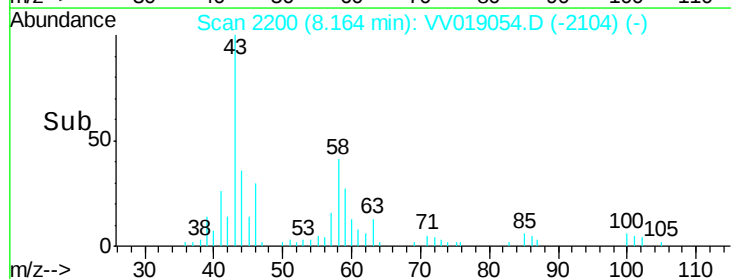
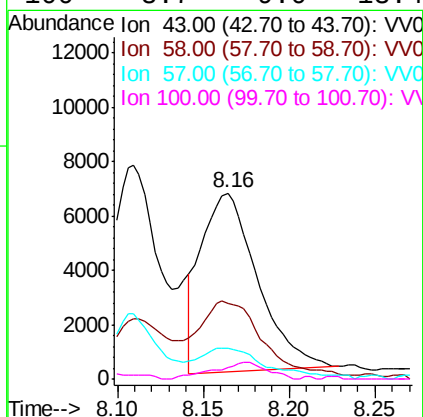
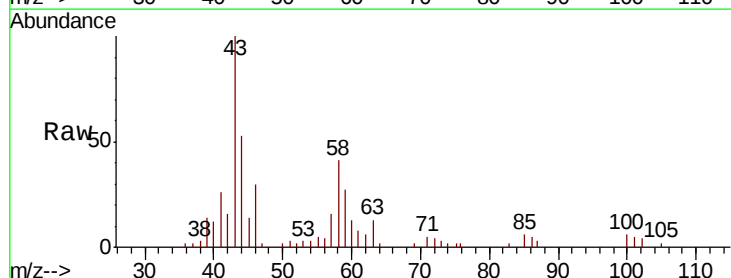
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0FH2

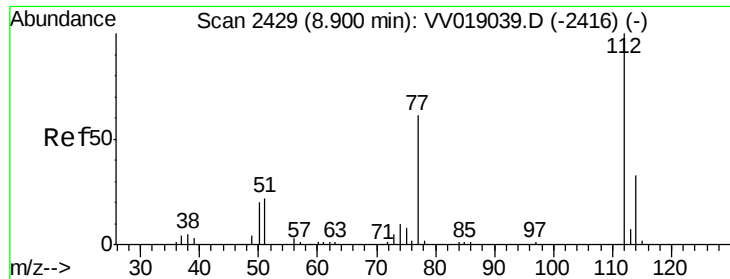
Tot Ion: 75 Resp: 4410  
 Ion Ratio Lower Upper  
 75 100  
 77 49.0 22.5 41.9#



#48  
 2-Hexanone  
 Concen: 5.260 ug/L  
 RT: 8.16 min Scan# 2200  
 Delta R.T. 0.01 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

Tgt Ion: 43 Resp: 15032  
 Ion Ratio Lower Upper  
 43 100  
 58 48.5 42.5 63.7  
 57 19.1 14.5 21.7  
 100 8.7 9.0 13.4#





#51

Chlorobenzene

Concen: 1.952 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV019054.D

Acq: 21 Oct 2020 17:20

Instrument :

MSVOA\_V

ClientSampled :

C0FH2

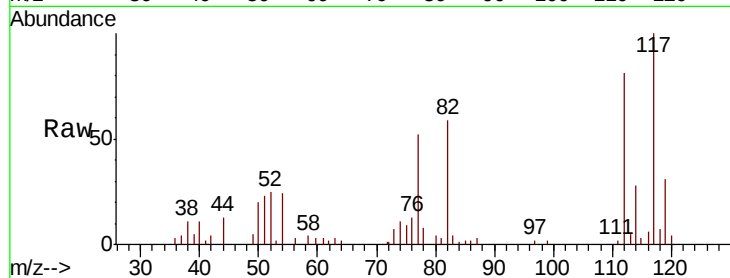
Tot Ion:112 Resp: 12831

Ion Ratio Lower Upper

112 100

114 34.4 21.8 40.6

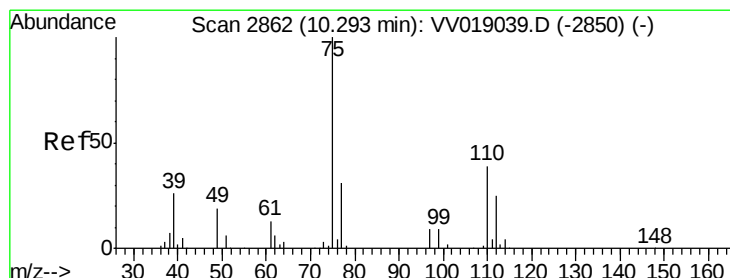
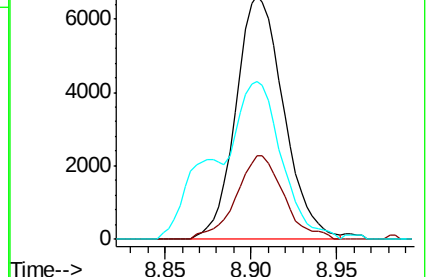
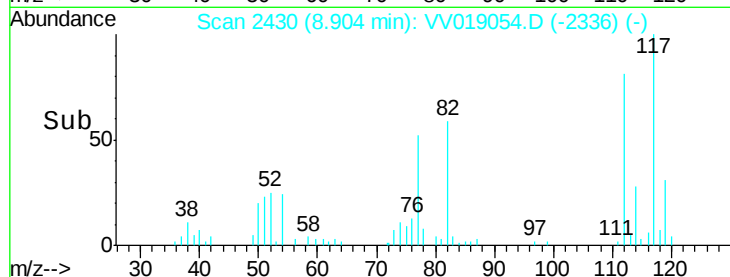
77 64.8 49.2 73.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 6.579 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV019054.D

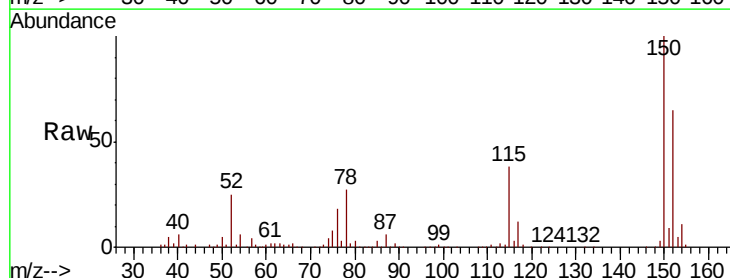
Acq: 21 Oct 2020 17:20

Tgt Ion: 75 Resp: 20814

Ion Ratio Lower Upper

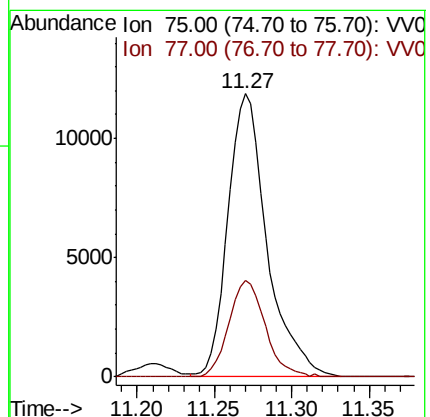
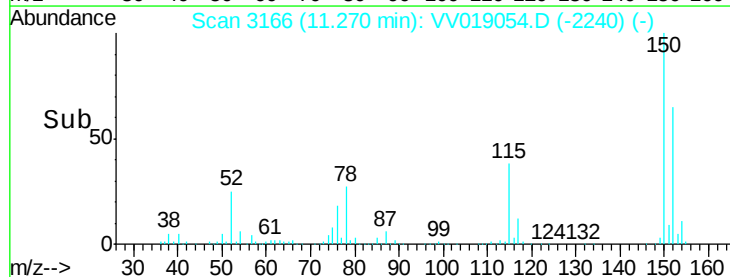
75 100

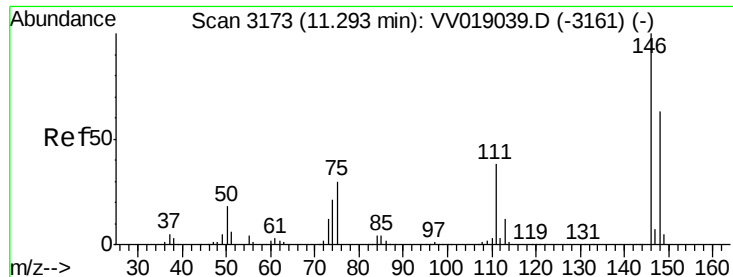
77 31.5 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

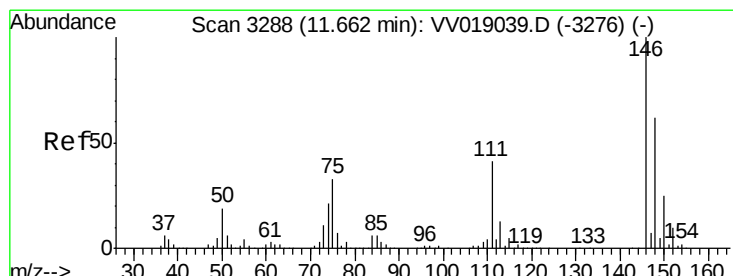
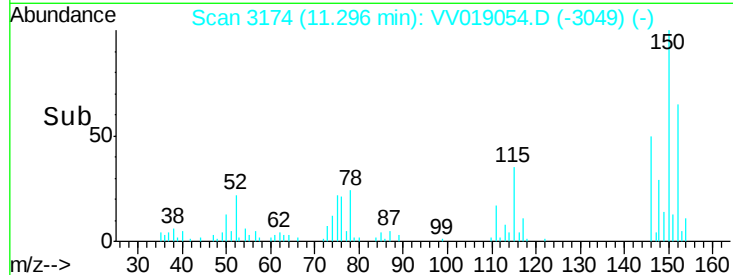
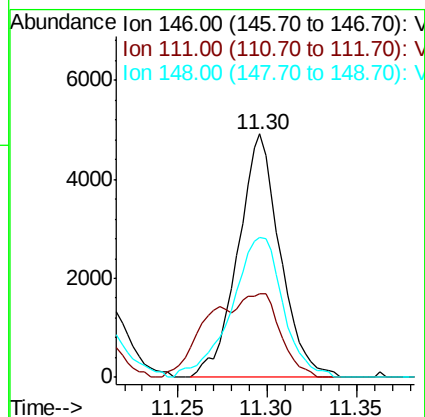
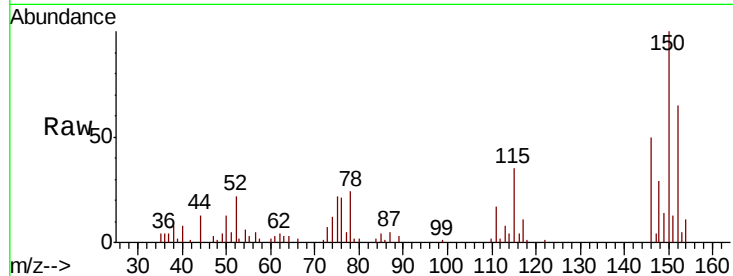




#63  
 1,4-Dichlorobenzene  
 Concen: 1.699 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

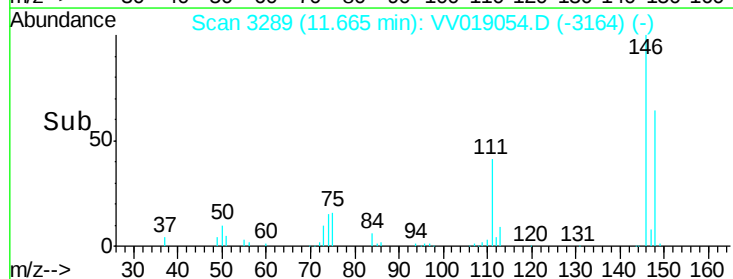
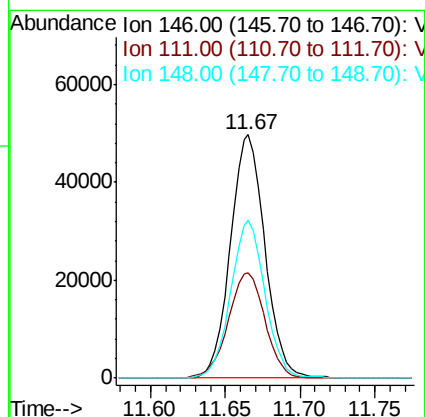
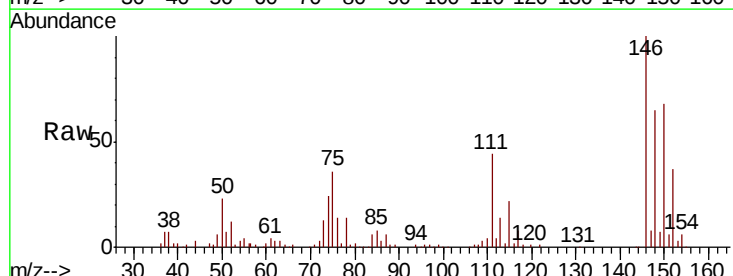
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0FH2

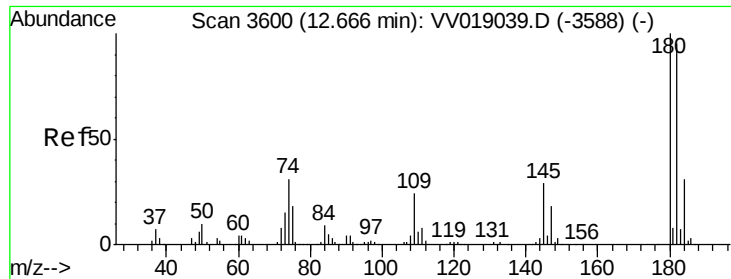
Tot Ion:146 Resp: 8144  
 Ion Ratio Lower Upper  
 146 100  
 111 34.2 27.5 51.1  
 148 57.7 44.1 81.9



#65  
 1,2-Dichlorobenzene  
 Concen: 17.367 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

Tgt Ion:146 Resp: 79899  
 Ion Ratio Lower Upper  
 146 100  
 111 43.5 33.9 50.9  
 148 65.0 49.8 74.8

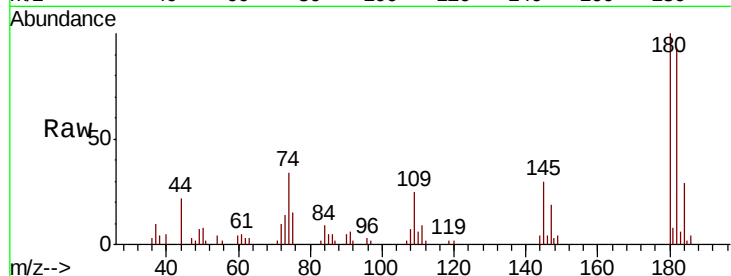




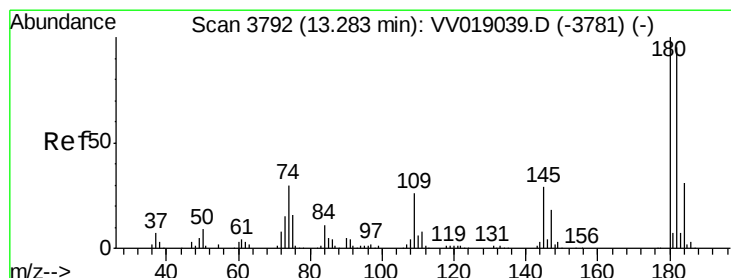
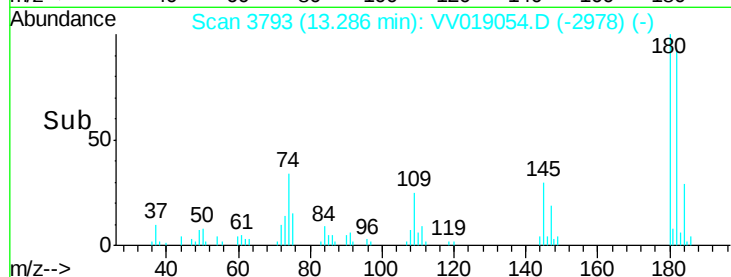
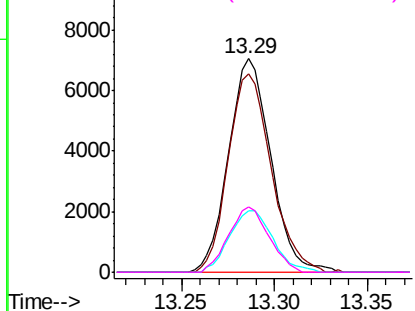
#67  
 1,3,5-Trichlorobenzene  
 Concen: 3.653 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0FH2

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 11190      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 75.8 113.8 |
| 184         | 29.7  | 24.9 37.3  |
| 145         | 29.0  | 23.2 34.8  |

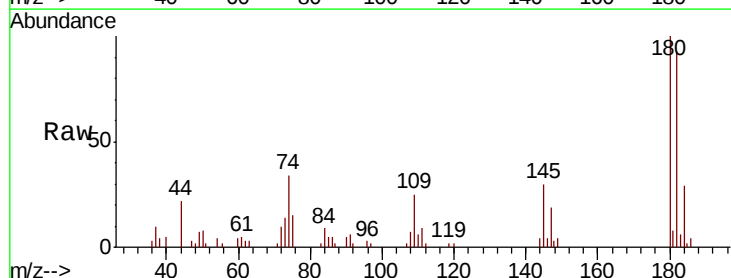


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

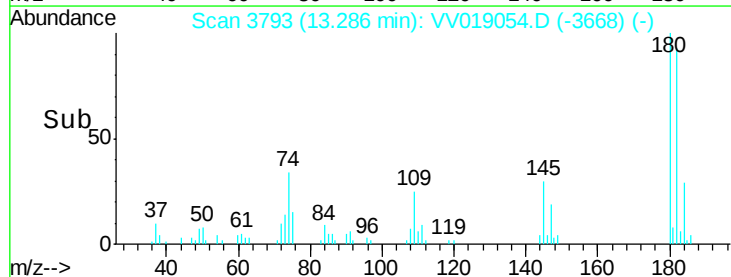
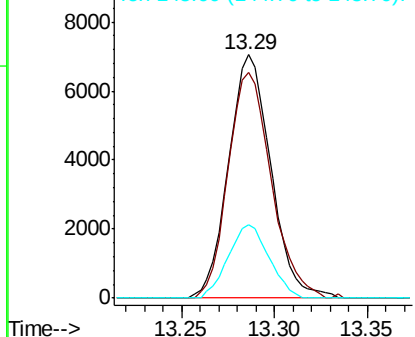


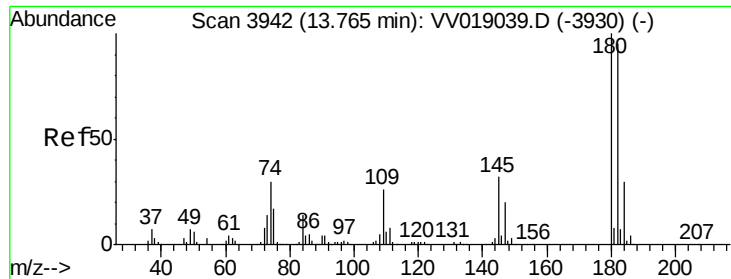
#68  
 1,2,4-trichlorobenzene  
 Concen: 3.964 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 11190      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 76.5 114.7 |
| 145         | 29.0  | 23.7 35.5  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 3.285 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV019054.D  
 Acq: 21 Oct 2020 17:20

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0FH2

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 180     | 100  |       |       |       |
| 182     | 94.9 | 76.8  | 115.2 |       |
| 145     | 31.8 | 25.4  | 38.0  |       |

