

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\  
 Data File : VU039651.D  
 Acq On : 23 Jul 2020 20:53  
 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jul 24 02:07:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 24 01:59:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 190102   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 181662   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 85023    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60    | 65    | 51120    | 41.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.62%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 51591    | 34.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 69.58%# |
| 11) 1,1-Dichloroethene-d2      | 2.58    | 63    | 85717    | 32.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.44%  |
| 21) 2-Butanone-d5              | 4.65    | 46    | 128287   | 89.79    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.79%  |
| 24) Chloroform-d               | 5.08    | 84    | 120994   | 43.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.94%  |
| 26) 1,2-Dichloroethane-d4      | 5.72    | 65    | 89391    | 44.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.88%  |
| 32) Benzene-d6                 | 5.75    | 84    | 236773   | 46.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.88%  |
| 36) 1,2-Dichloropropane-d6     | 6.71    | 67    | 77407    | 46.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.60%  |
| 41) Toluene-d8                 | 7.91    | 98    | 213361   | 44.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.90%  |
| 43) trans-1,3-Dichloropropene- | 8.19    | 79    | 36607    | 43.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.70%  |
| 47) 2-Hexanone-d5              | 8.64    | 63    | 81222    | 90.01    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.01%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76   | 84    | 113549   | 43.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 86.70%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19   | 152   | 83906    | 45.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.26%  |

## Target Compounds

|                                |      |     |      |              | Ovalue |
|--------------------------------|------|-----|------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 2280 | 1.761 ug/L   | 95     |
| 3) Chloromethane               | 1.53 | 50  | 2532 | 1.882 ug/L   | 86     |
| 5) Vinyl chloride              | 1.61 | 62  | 2976 | 2.177 ug/L # | 75     |
| 6) Bromomethane                | 1.86 | 94  | 2456 | 2.391 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 4269 | 1.767 ug/L   | 92     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 2671 | 2.297 ug/L   | 91     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 2406 | 2.219 ug/L # | 1      |
| 13) Acetone                    | 2.64 | 43  | 3471 | 3.650 ug/L   | 69     |
| 14) Carbon disulfide           | 2.81 | 76  | 6228 | 1.795 ug/L   | 98     |
| 15) Methyl Acetate             | 2.97 | 43  | 2948 | 1.731 ug/L   | 99     |
| 16) Methylene chloride         | 3.06 | 84  | 2367 | 1.823 ug/L   | 81     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96  | 2286 | 1.894 ug/L   | 95     |
| 18) Methyl tert-butyl Ether    | 3.39 | 73  | 6760 | 1.734 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 4605 | 1.955 ug/L   | 92     |
| 20) cis-1,2-Dichloroethene     | 4.68 | 96  | 2301 | 1.668 ug/L   | 96     |
| 22) 2-Butanone                 | 4.73 | 43  | 4503 | 3.360 ug/L # | 72     |
| 23) Bromochloromethane         | 4.99 | 128 | 1090 | 1.573 ug/L # | 67     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\  
 Data File : VU039651.D  
 Acq On : 23 Jul 2020 20:53  
 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0µ/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 25 Sample Multiplier: 1

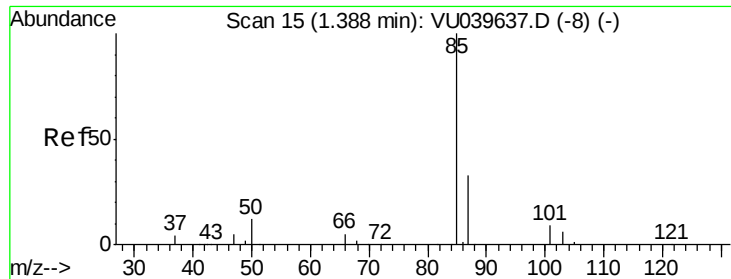
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jul 24 02:07:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 24 01:59:50 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 25) Chloroform                  | 5.11  | 83   | 10247    | 3.923 | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 4243     | 1.959 | ug/L   | 96       |
| 29) Cyclohexane                 | 5.41  | 56   | 3707     | 1.878 | ug/L # | 91       |
| 30) 1,1,1-Trichloroethane       | 5.33  | 97   | 3920     | 1.802 | ug/L   | 98       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 3240     | 1.796 | ug/L   | 96       |
| 33) Benzene                     | 5.79  | 78   | 9910     | 1.979 | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 2497     | 1.886 | ug/L   | 90       |
| 35) Methylcyclohexane           | 6.78  | 83   | 3748     | 1.830 | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.81  | 63   | 2623     | 1.935 | ug/L # | 89       |
| 38) Bromodichloromethane        | 7.12  | 83   | 3307     | 1.837 | ug/L # | 84       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 3509     | 1.732 | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 8370     | 3.544 | ug/L # | 98       |
| 42) Toluene                     | 7.98  | 91   | 9657     | 1.754 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 3345     | 1.686 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 2392     | 1.850 | ug/L # | 79       |
| 46) Tetrachloroethene           | 8.56  | 164  | 1470     | 1.468 | ug/L   | 87       |
| 48) 2-Hexanone                  | 8.69  | 43   | 10119    | 5.259 | ug/L   | 98       |
| 49) Dibromochloromethane        | 8.82  | 129  | 2276     | 1.559 | ug/L   | 91       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 2526     | 1.756 | ug/L # | 99       |
| 51) Chlorobenzene               | 9.45  | 112  | 6425     | 1.829 | ug/L   | 98       |
| 52) Ethylbenzene                | 9.57  | 91   | 10462    | 1.719 | ug/L   | 98       |
| 53) m,p-Xylene                  | 9.69  | 106  | 3875     | 1.690 | ug/L   | 90       |
| 54) o-xylene                    | 10.10 | 106  | 3813     | 1.732 | ug/L   | 91       |
| 55) Styrene                     | 10.11 | 104  | 5761     | 1.513 | ug/L   | 95       |
| 56) Isopropylbenzene            | 10.48 | 105  | 9944     | 1.664 | ug/L   | 95       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 4580     | 1.944 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 3519     | 1.789 | ug/L   | 92       |
| 61) Bromoform                   | 10.29 | 173  | 1528     | 1.519 | ug/L # | 95       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 4495     | 1.726 | ug/L   | 90       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 5002     | 1.917 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 4748     | 1.804 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 3267     | 1.739 | ug/L   | 92       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 2645     | 1.659 | ug/L   | 97       |
| 69) Naphthalene                 | 14.08 | 128  | 6785     | 1.419 | ug/L # | 94       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 2427     | 1.507 | ug/L   | 99       |

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





#2

Dichlorodifluoromethane

Concen: 1.761 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

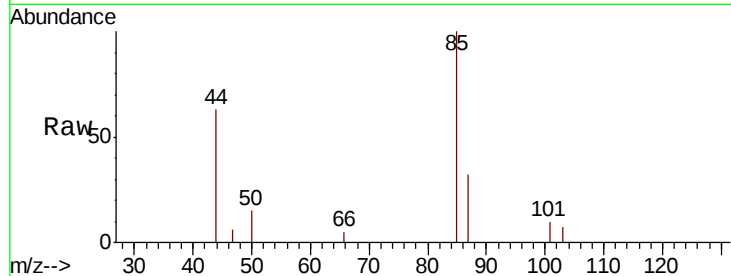
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 85 Resp: 2280

Ion Ratio Lower Upper

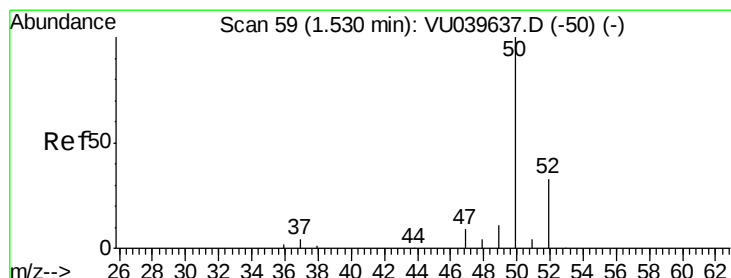
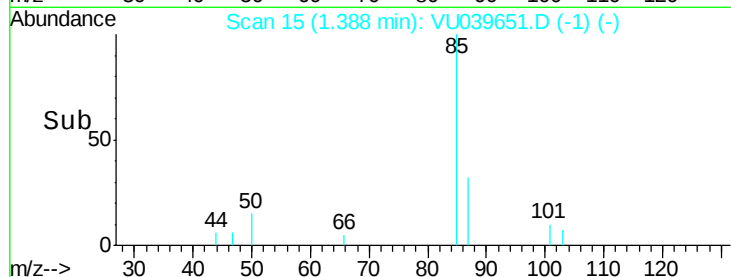
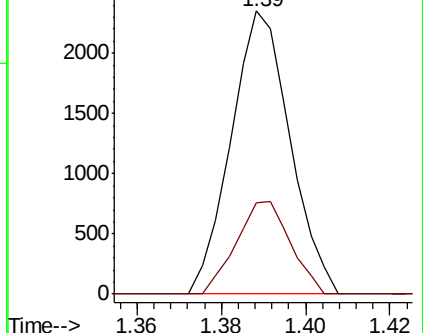
85 100

87 30.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU039637.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039637.D (-8) (-)



#3

Chloromethane

Concen: 1.882 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039651.D

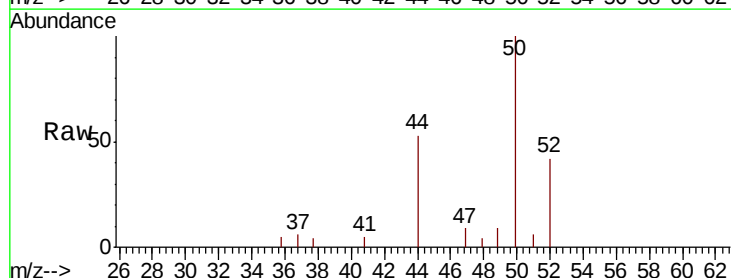
Acq: 23 Jul 2020 20:53

Tgt Ion: 50 Resp: 2532

Ion Ratio Lower Upper

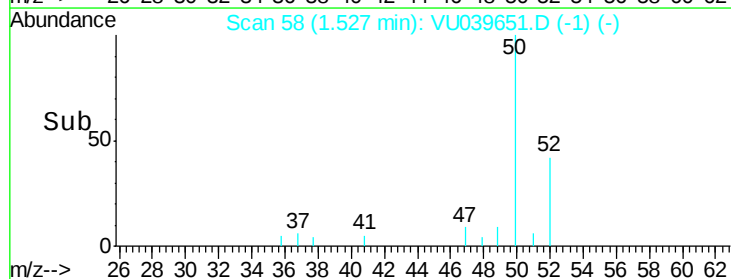
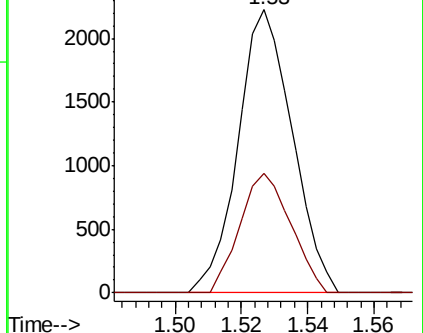
50 100

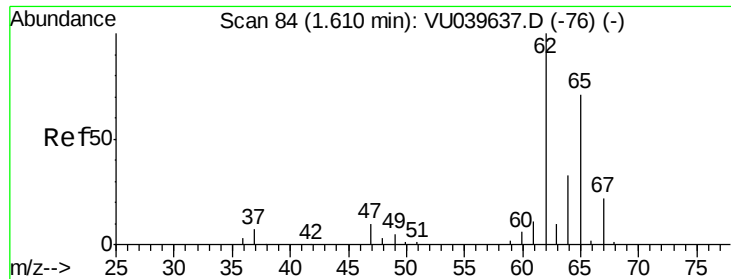
52 42.4 24.0 44.6



Abundance Ion 50.00 (49.70 to 50.70): VU039637.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU039637.D (-50) (-)





#5

Vinyl chloride

Concen: 2.177 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

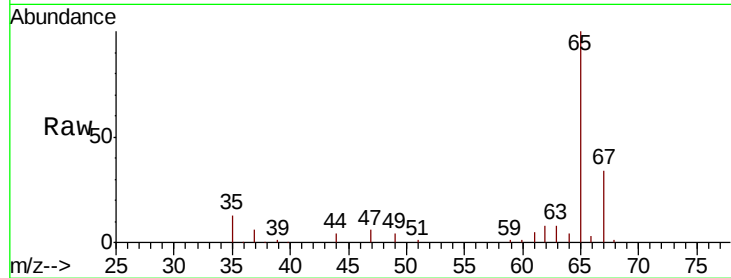
ClientSampleId :

Tot Ion: 62 Resp: 2976

Ion Ratio Lower Upper

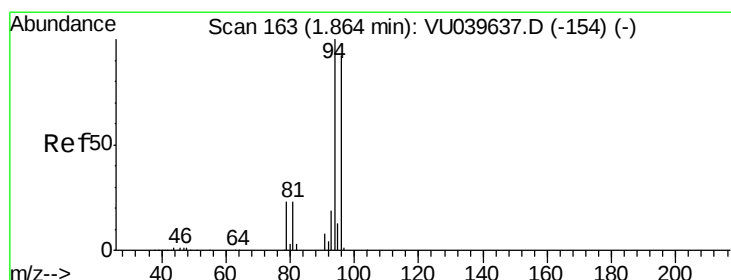
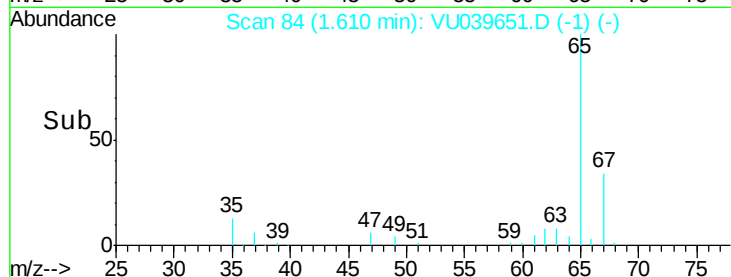
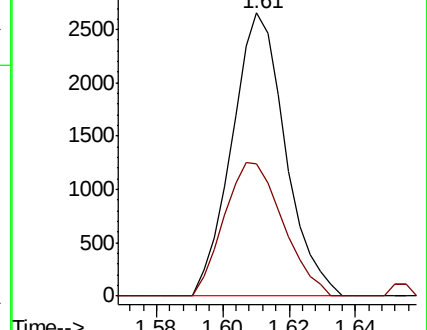
62 100

64 46.7 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039637.D (-76) (-)

Ion 64.00 (63.70 to 64.70): VU039637.D (-76) (-)



#6

Bromomethane

Concen: 2.391 ug/L

RT: 1.86 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU039651.D

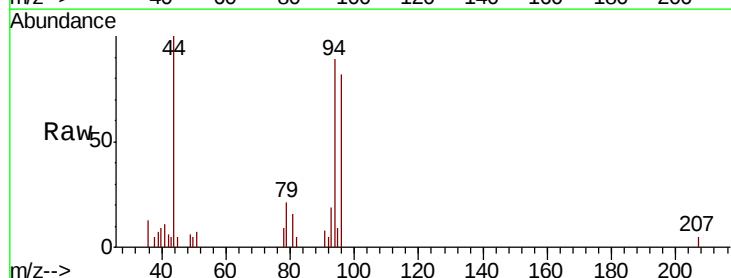
Acq: 23 Jul 2020 20:53

Tgt Ion: 94 Resp: 2456

Ion Ratio Lower Upper

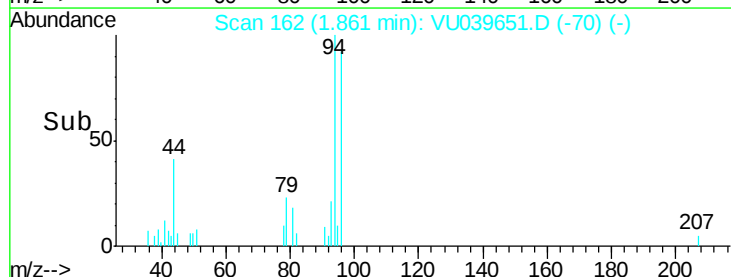
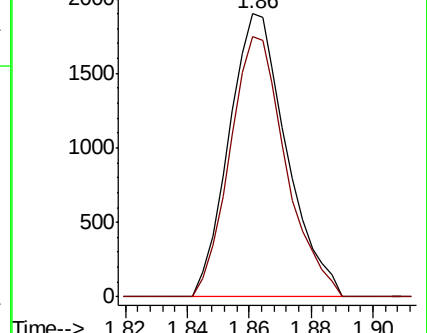
94 100

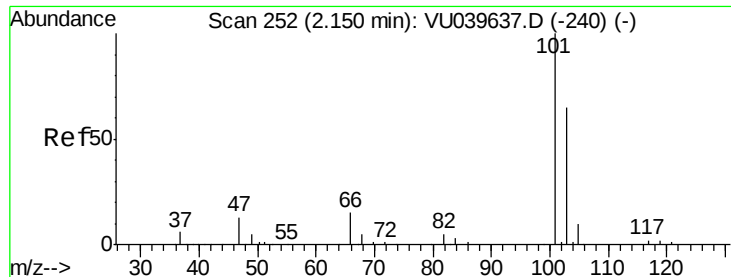
96 92.1 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VU039637.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU039637.D (-154) (-)



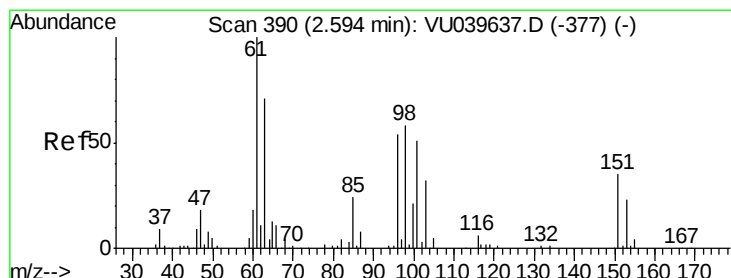
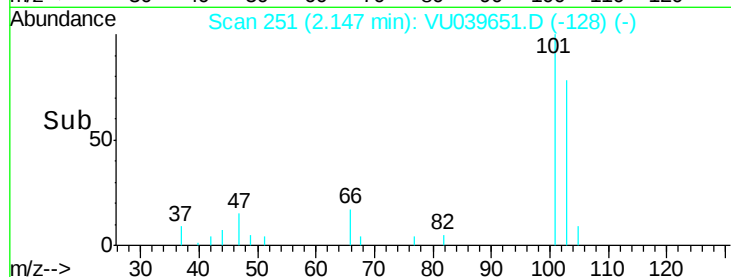
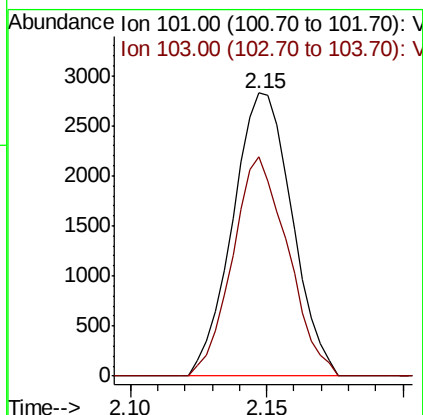
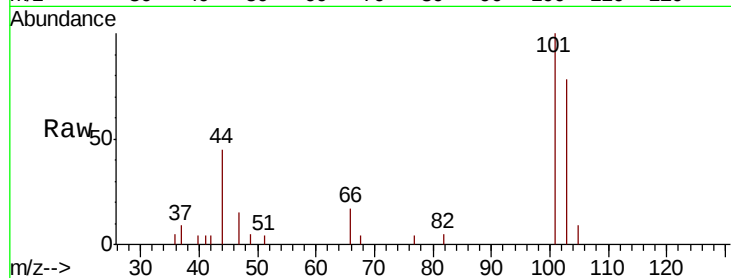


#9

Trichlorofluoromethane  
 Concen: 1.767 ug/L  
 RT: 2.15 min Scan# 251  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :

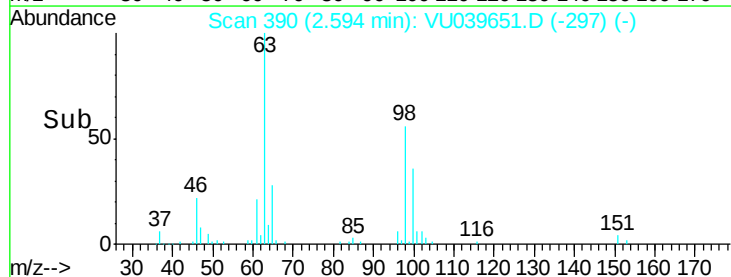
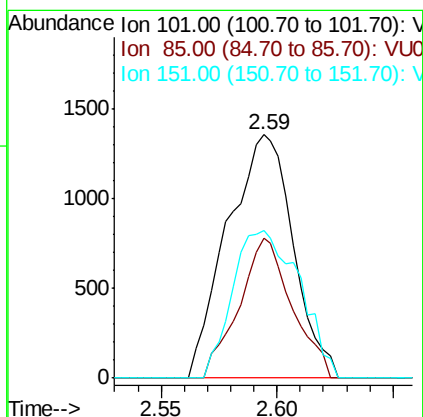
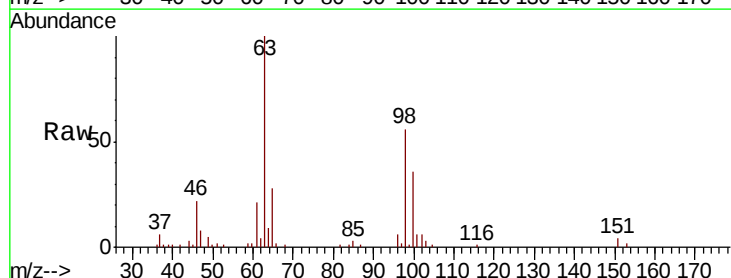
Tot Ion:101 Resp: 4269  
 Ion Ratio Lower Upper  
 101 100  
 103 72.4 52.8 79.2

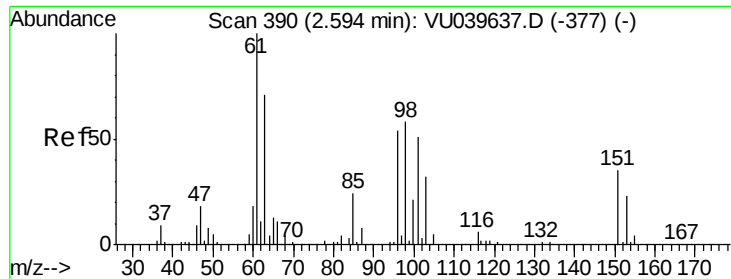


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 2.297 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion:101 Resp: 2671  
 Ion Ratio Lower Upper  
 101 100  
 85 46.3 39.7 59.5  
 151 61.4 57.4 86.2





#12

1,1-Dichloroethene

Concen: 2.219 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampleId :

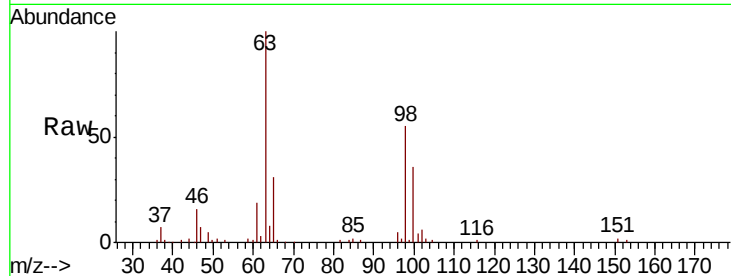
Tot Ion: 96 Resp: 2406

Ion Ratio Lower Upper

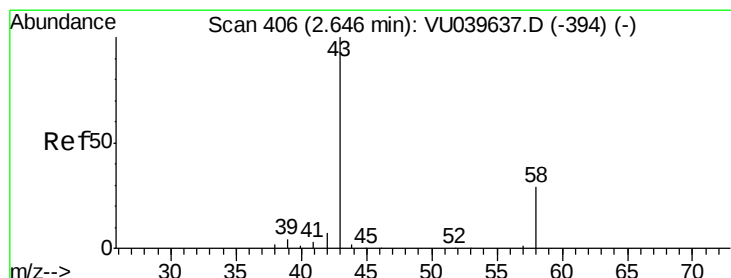
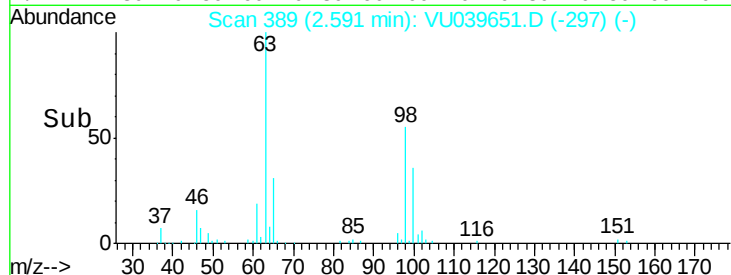
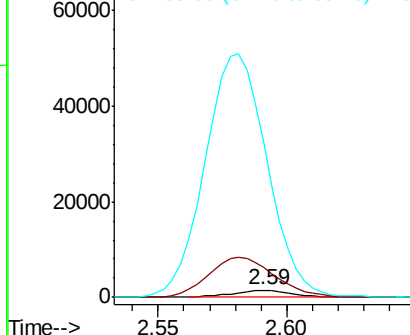
96 100

61 422.3 136.6 253.6#

63 2178.6 97.2 180.6#



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 3.650 ug/L

RT: 2.64 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU039651.D

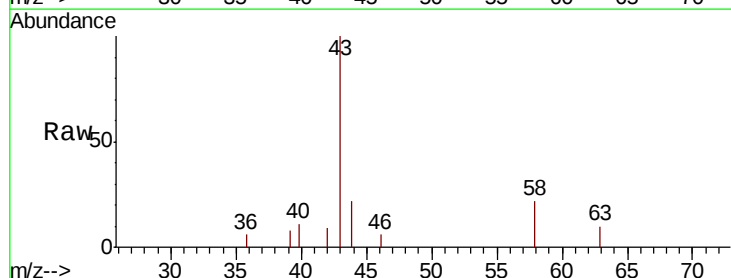
Acq: 23 Jul 2020 20:53

Tgt Ion: 43 Resp: 3471

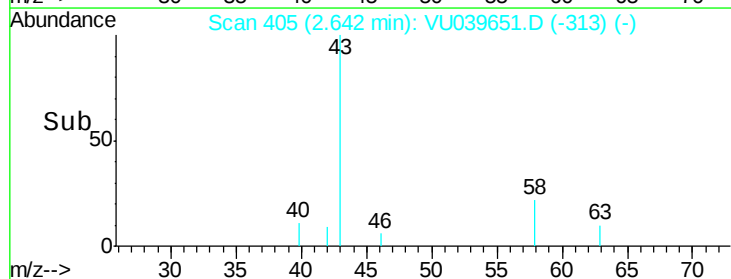
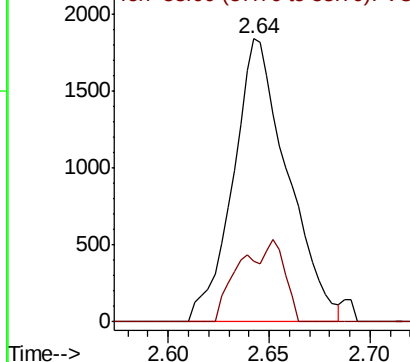
Ion Ratio Lower Upper

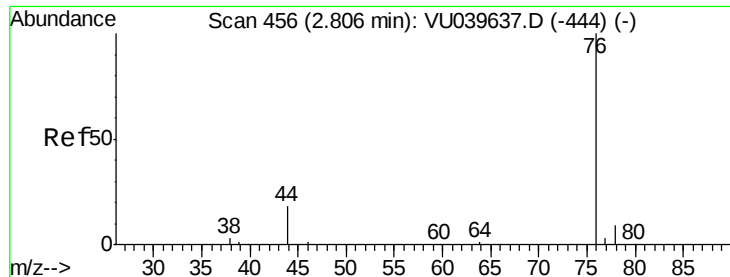
43 100

58 13.1 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0





#14

Carbon disulfide

Concen: 1.795 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.01 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

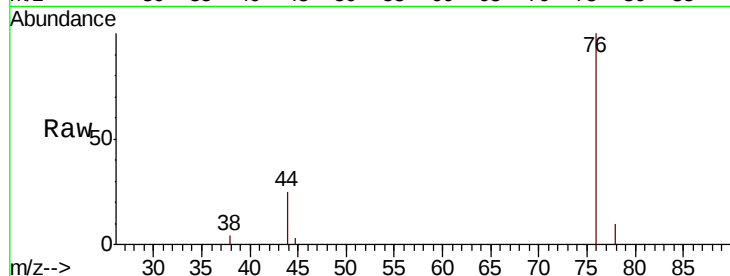
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 76 Resp: 6228

Ion Ratio Lower Upper

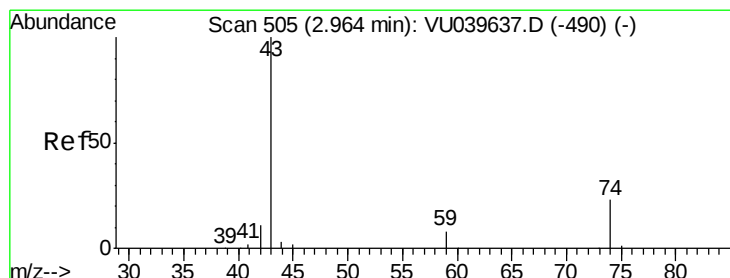
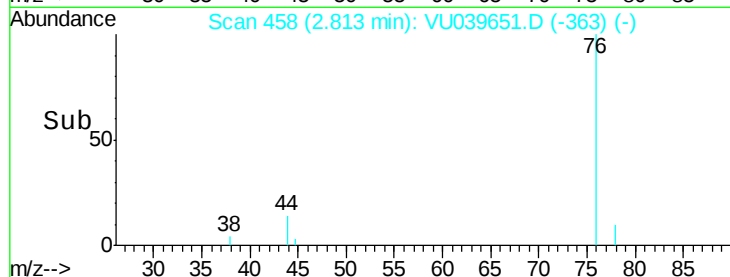
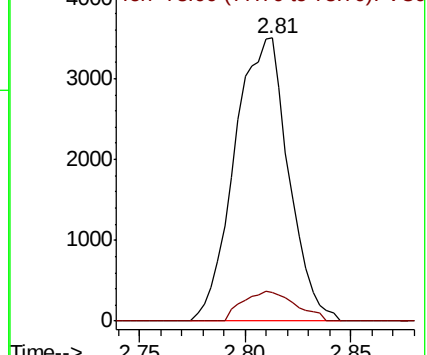
76 100

78 9.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU039637.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU039637.D (-444) (-)



#15

Methyl Acetate

Concen: 1.731 ug/L

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU039651.D

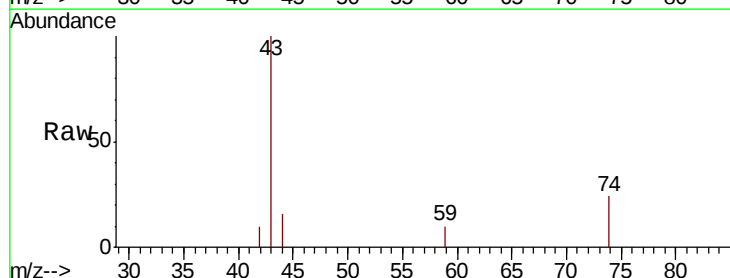
Acq: 23 Jul 2020 20:53

Tgt Ion: 43 Resp: 2948

Ion Ratio Lower Upper

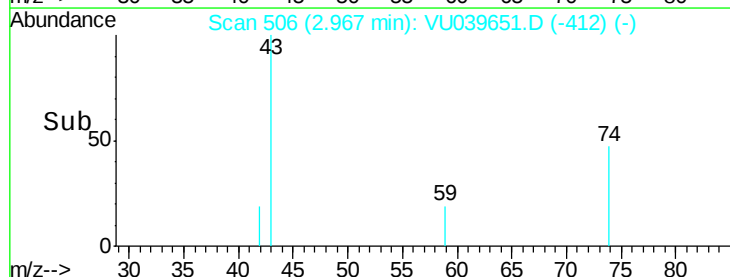
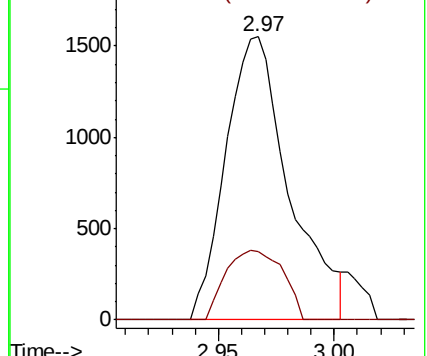
43 100

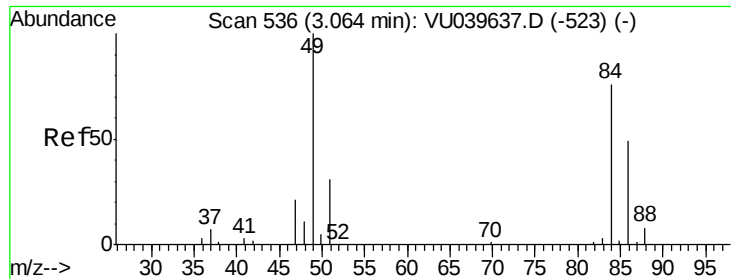
74 22.1 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VU039637.D (-490) (-)

Ion 74.00 (73.70 to 74.70): VU039637.D (-490) (-)

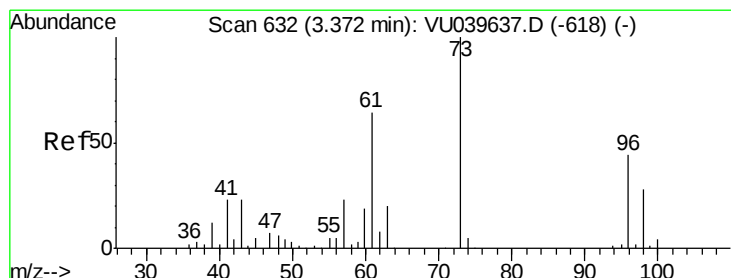
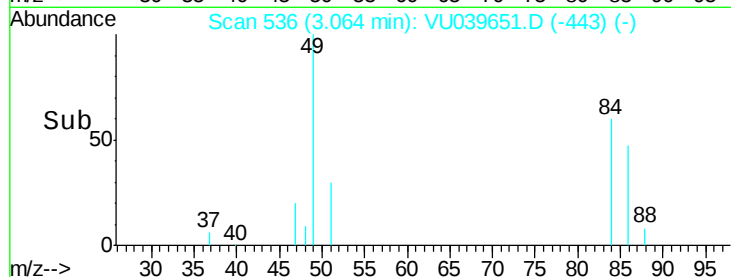
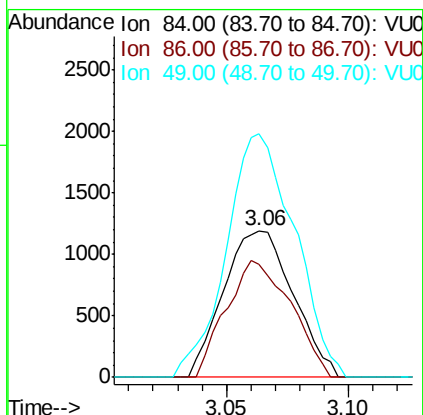
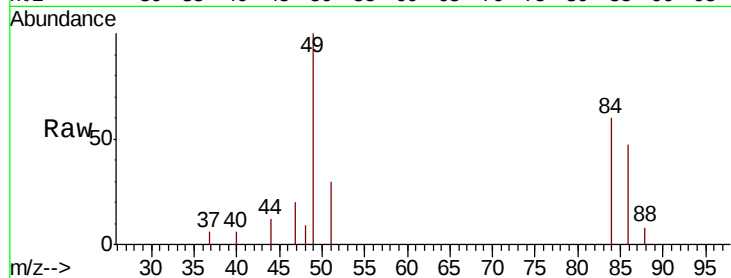




#16  
Methylene chloride  
Concen: 1.823 ug/L  
RT: 3.06 min Scan# 536  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

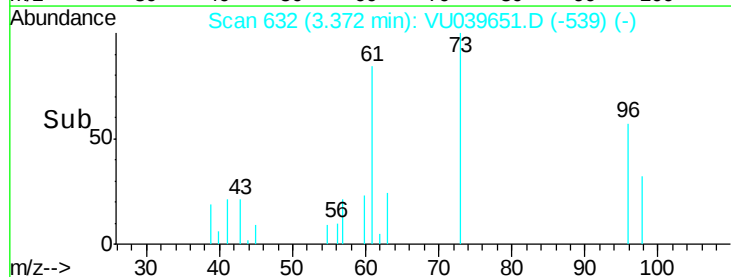
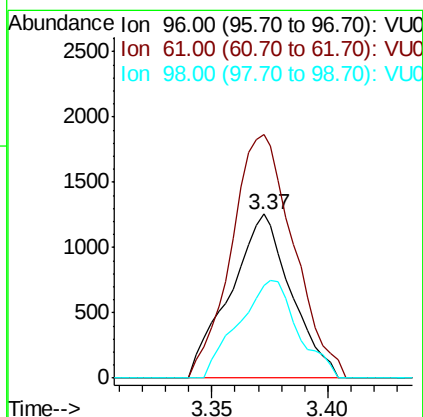
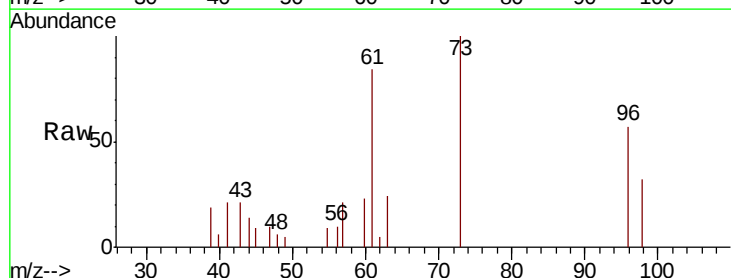
Instrument :  
MSVOA\_U  
ClientSampleId :

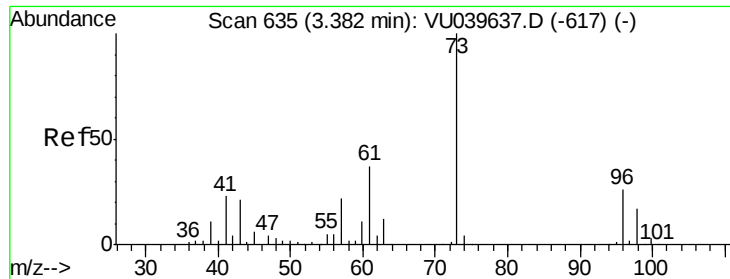
Tot Ion: 84 Resp: 2367  
Ion Ratio Lower Upper  
84 100  
86 77.2 46.2 85.8  
49 165.7 97.3 180.7



#17  
trans-1,2-Dichloroethene  
Concen: 1.894 ug/L  
RT: 3.37 min Scan# 632  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 96 Resp: 2286  
Ion Ratio Lower Upper  
96 100  
61 148.3 106.7 198.1  
98 56.7 44.3 82.3

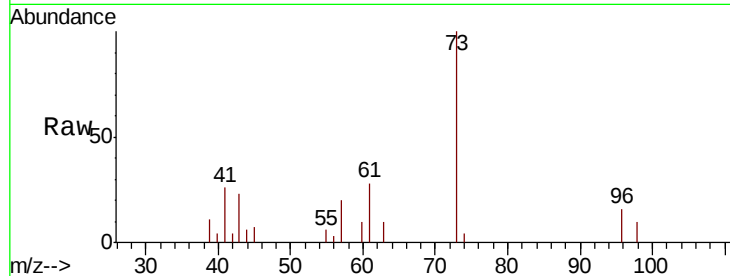




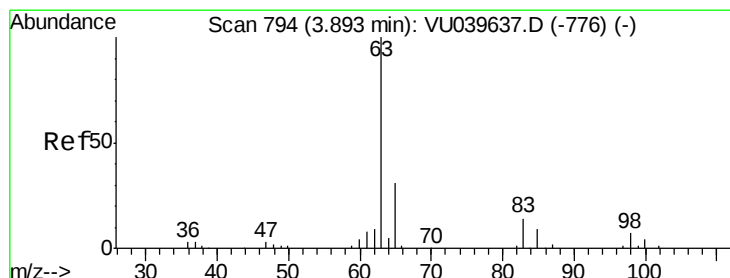
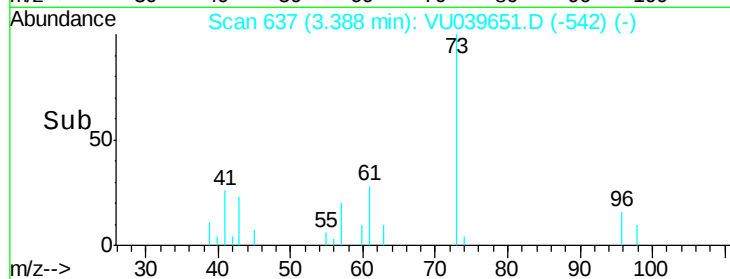
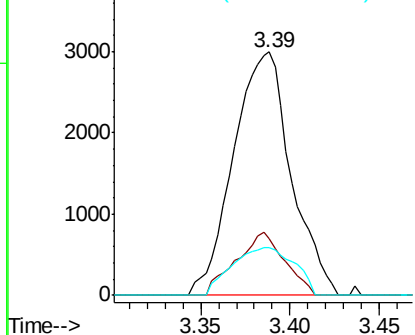
#18  
Methvl tert-butvl Ether  
Concen: 1.734 ug/L  
RT: 3.39 min Scan# 637  
Delta R.T. 0.01 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 73 Resp: 6760  
Ion Ratio Lower Upper  
73 100  
43 21.7 18.2 27.2  
57 21.2 17.4 26.2

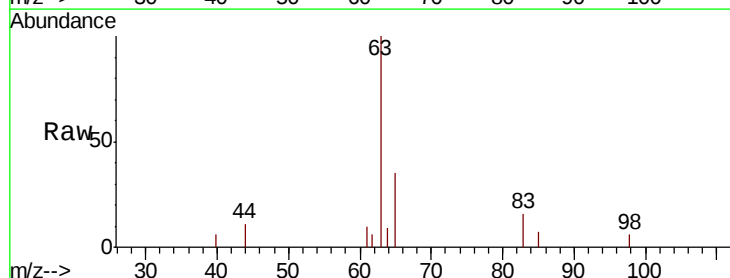


Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

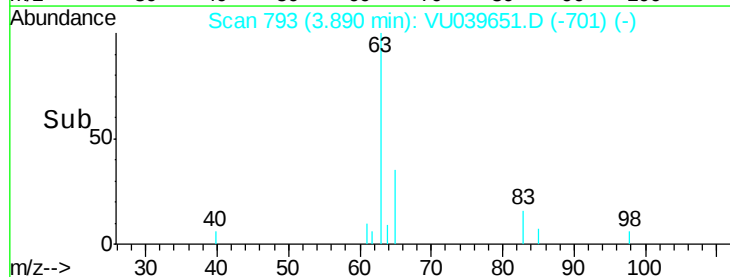
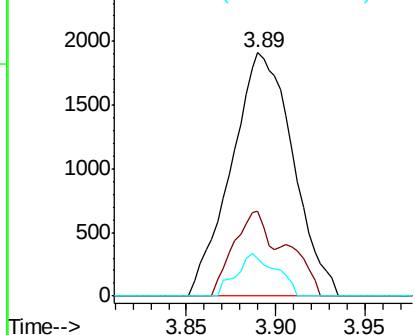


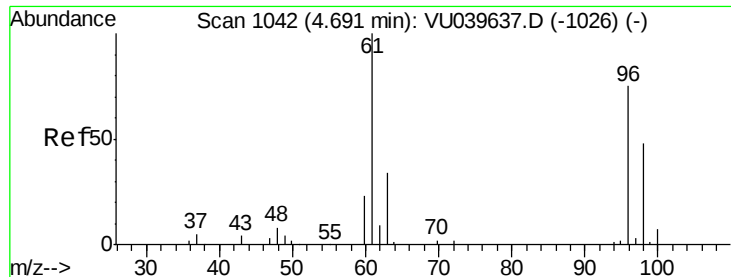
#19  
1,1-Dichloroethane  
Concen: 1.955 ug/L  
RT: 3.89 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 63 Resp: 4605  
Ion Ratio Lower Upper  
63 100  
65 34.7 20.4 38.0  
83 15.5 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 65.00 (64.70 to 65.70): VU0  
Ion 83.00 (82.70 to 83.70): VU0

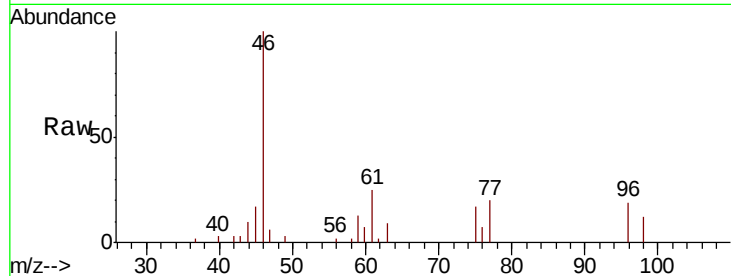




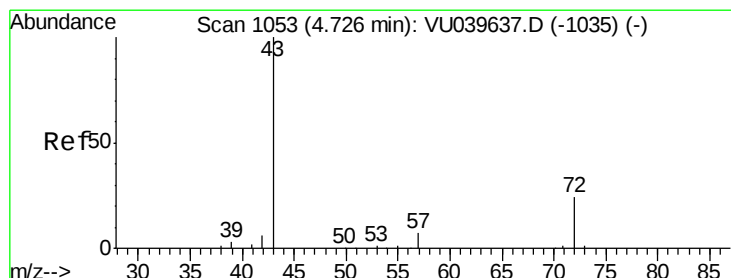
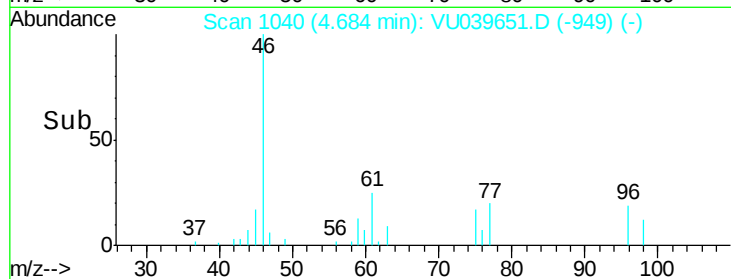
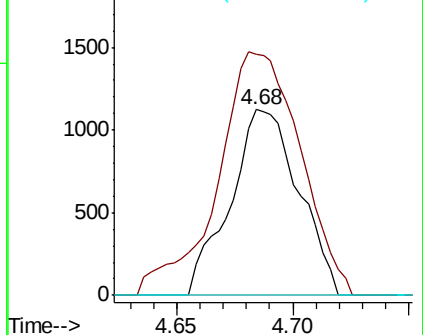
#20  
 cis-1,2-Dichloroethene  
 Concen: 1.668 ug/L  
 RT: 4.68 min Scan# 1040  
 Delta R.T. -0.01 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 96 Resp: 2301  
 Ion Ratio Lower Upper  
 96 100  
 61 129.8 94.0 174.6  
 68 0.0 0.0 0.0

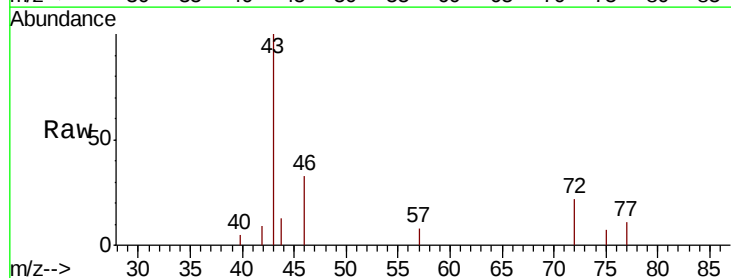


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

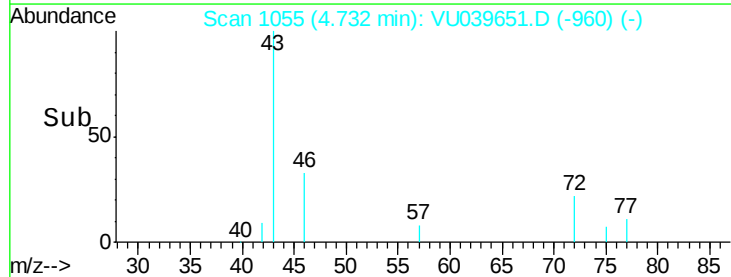
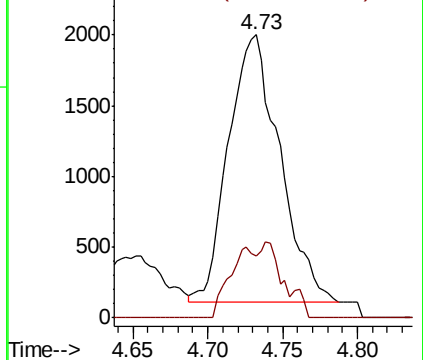


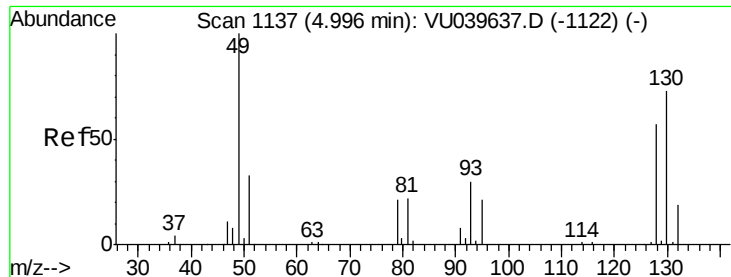
#22  
 2-Butanone  
 Concen: 3.360 ug/L  
 RT: 4.73 min Scan# 1055  
 Delta R.T. 0.01 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion: 43 Resp: 4503  
 Ion Ratio Lower Upper  
 43 100  
 72 11.1 12.8 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0  
 Ion 72.00 (71.70 to 72.70): VU0





#23

Bromochloromethane

Concen: 1.573 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion:128 Resp: 1090

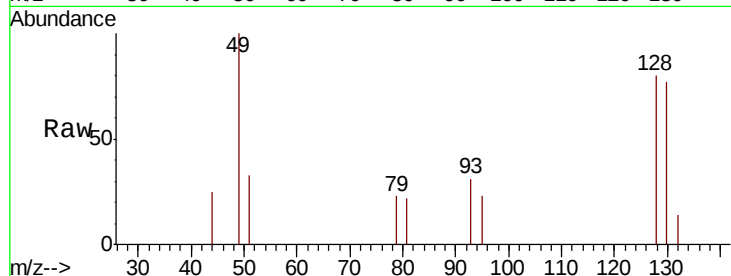
Ion Ratio Lower Upper

128 100

49 125.5 124.5 231.3

130 96.2 94.4 175.2

51 41.1 43.5 65.3#

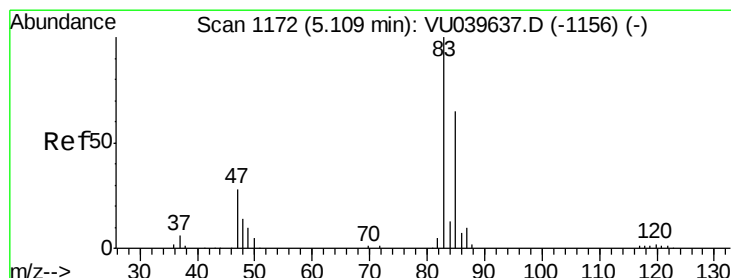
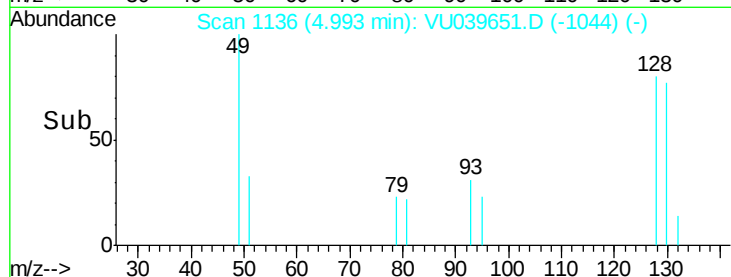
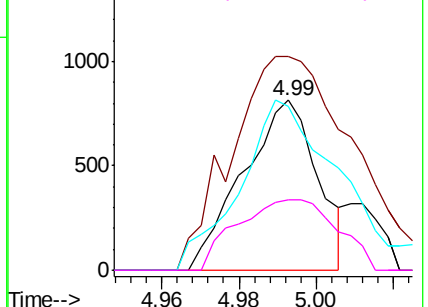


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VU0



#25

Chloroform

Concen: 3.923 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VU039651.D

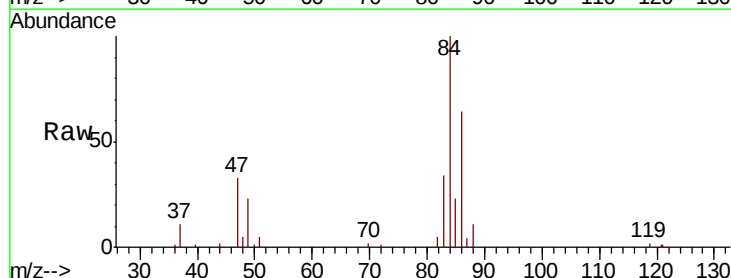
Acq: 23 Jul 2020 20:53

Tgt Ion: 83 Resp: 10247

Ion Ratio Lower Upper

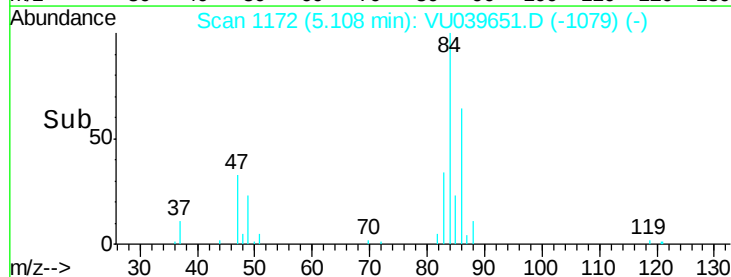
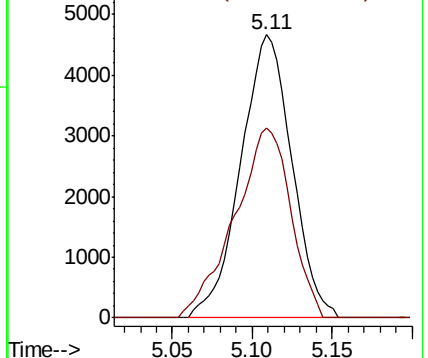
83 100

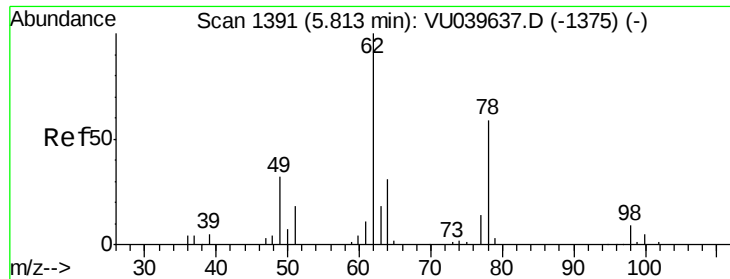
85 67.0 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

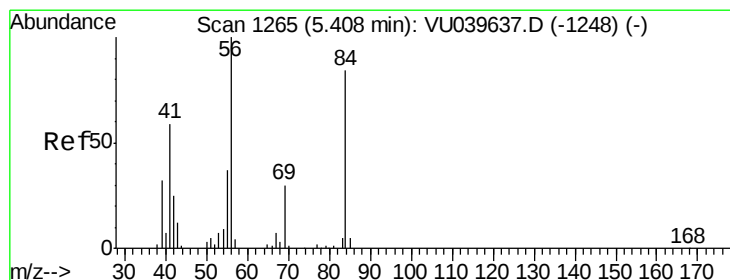
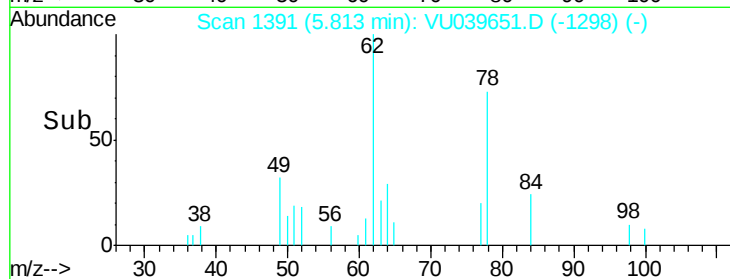
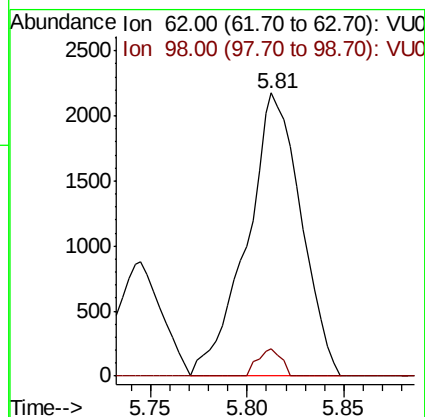
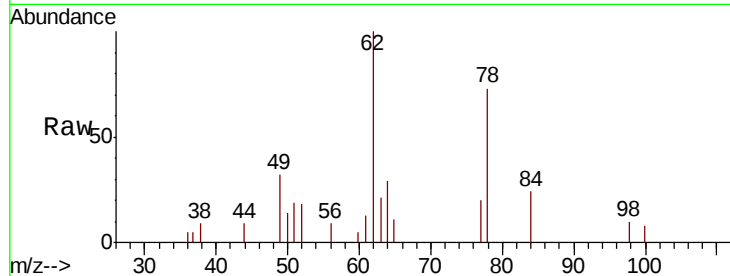




#27  
 1,2-Dichloroethane  
 Concen: 1.959 ug/L  
 RT: 5.81 min Scan# 1391  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

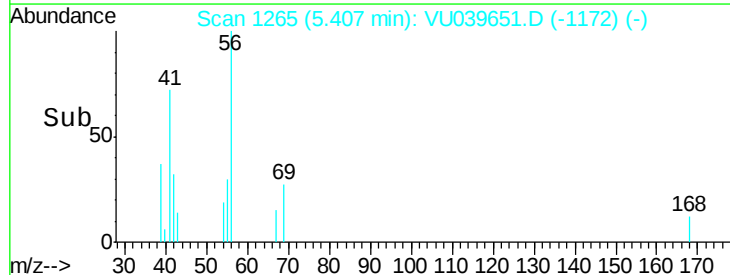
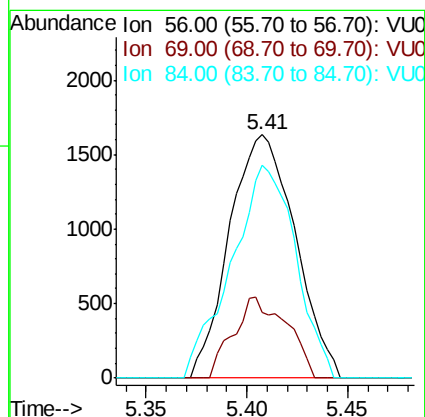
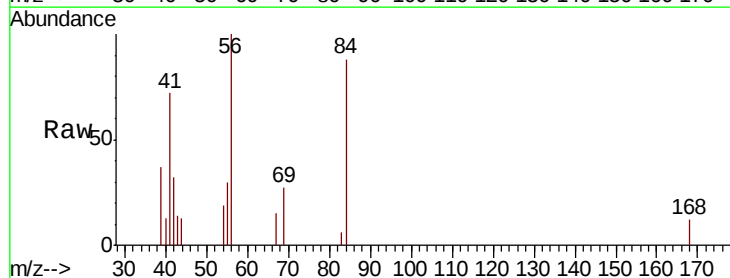
Instrument :  
 MSVOA\_U  
 ClientSampleId :

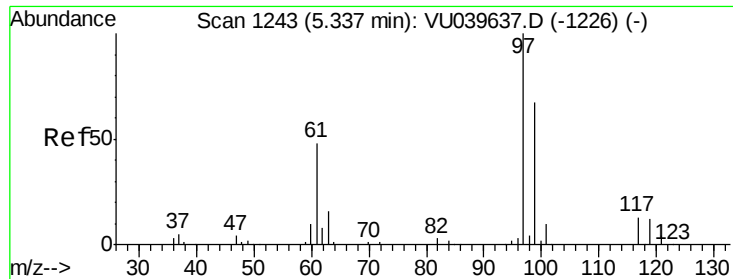
Tot Ion: 62 Resp: 4243  
 Ion Ratio Lower Upper  
 62 100  
 98 9.6 6.4 9.6



#29  
 Cyclohexane  
 Concen: 1.878 ug/L  
 RT: 5.41 min Scan# 1265  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion: 56 Resp: 3707  
 Ion Ratio Lower Upper  
 56 100  
 69 17.3 23.9 35.9#  
 84 85.4 65.8 98.8

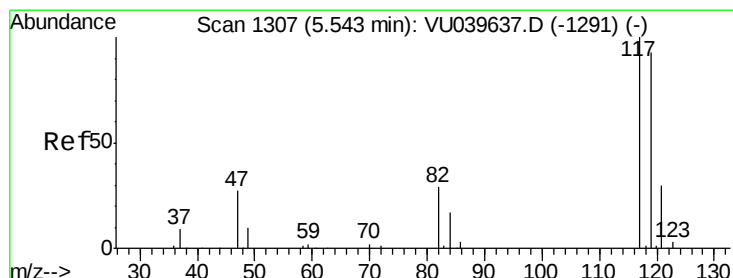
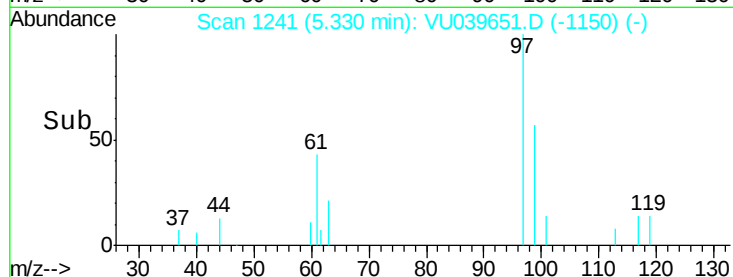
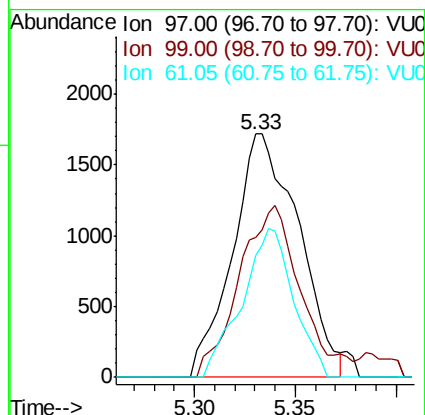
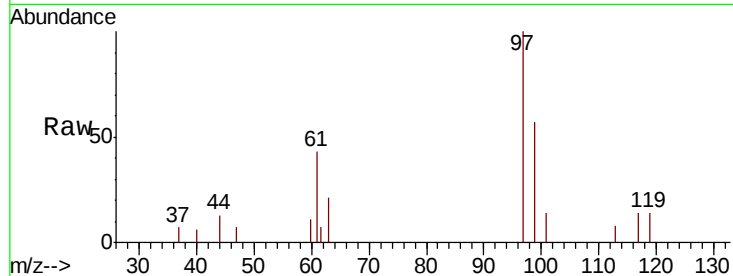




#30  
 1,1,1-Trichloroethane  
 Concen: 1.802 ug/L  
 RT: 5.33 min Scan# 1241  
 Delta R.T. -0.01 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

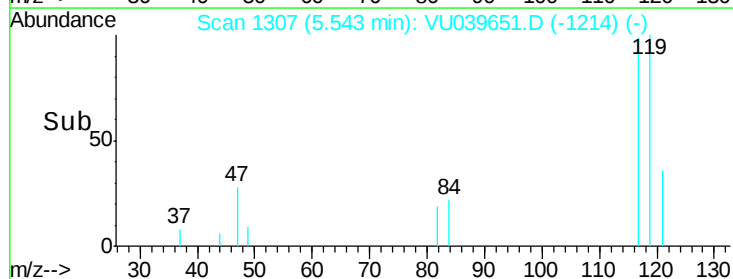
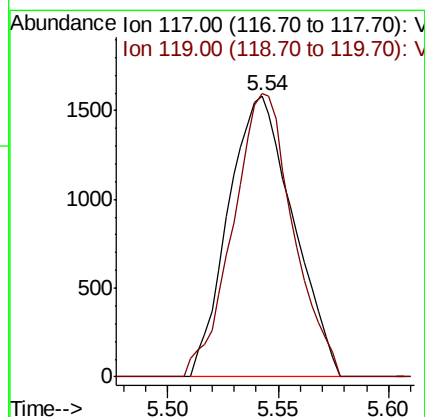
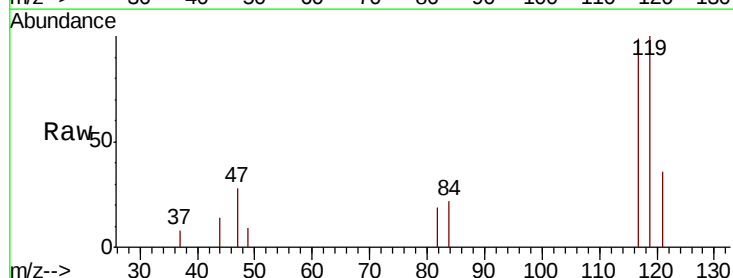
Instrument :  
 MSVOA\_U  
 ClientSampleId :

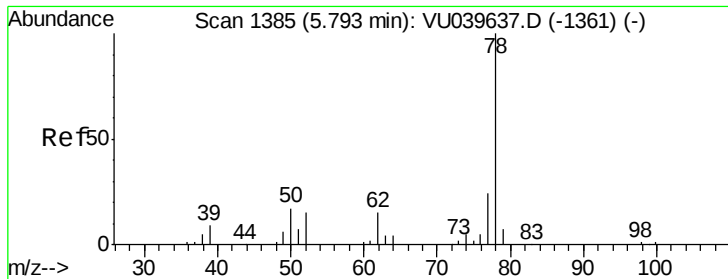
Tot Ion: 97 Resp: 3920  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 50.3 75.5  
 61 47.8 36.0 54.0



#31  
 Carbon tetrachloride  
 Concen: 1.796 ug/L  
 RT: 5.54 min Scan# 1307  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion: 117 Resp: 3240  
 Ion Ratio Lower Upper  
 117 100  
 119 93.6 78.2 117.4

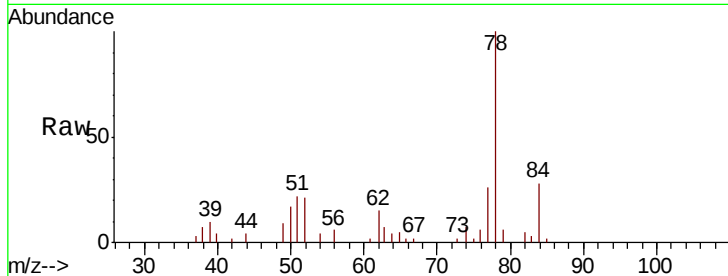




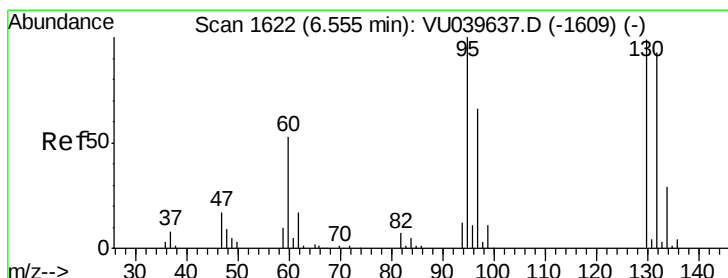
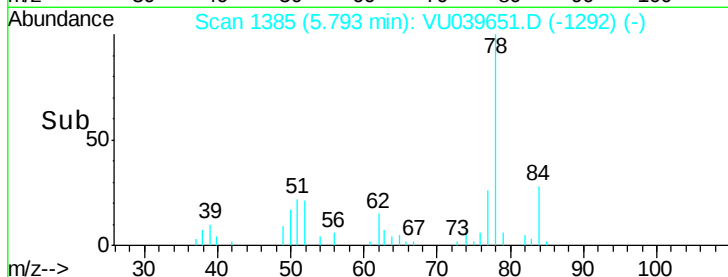
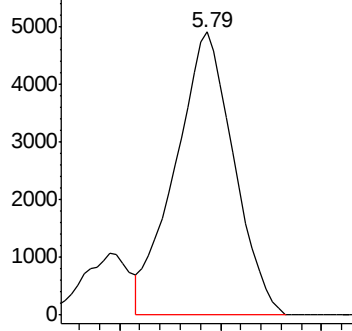
#33  
Benzene  
Concen: 1.979 ug/L  
RT: 5.79 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampled :

Tgt Ion: 78 Resp: 9910

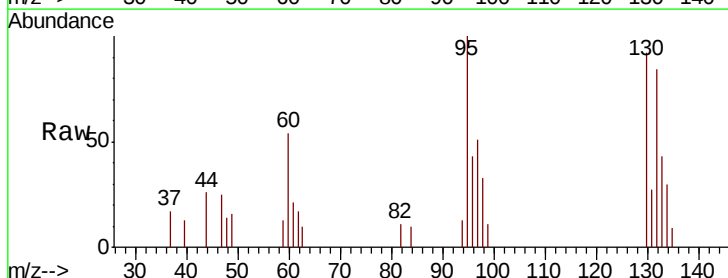


Abundance Ion 78.00 (77.70 to 78.70): VU0



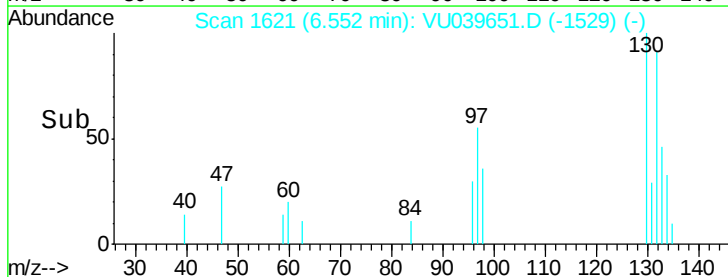
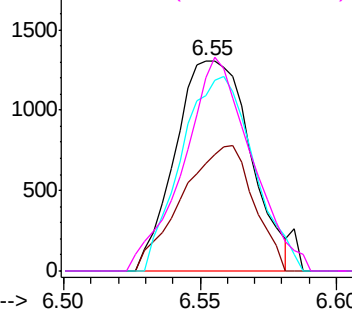
#34  
Trichloroethene  
Concen: 1.886 ug/L  
RT: 6.55 min Scan# 1621  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

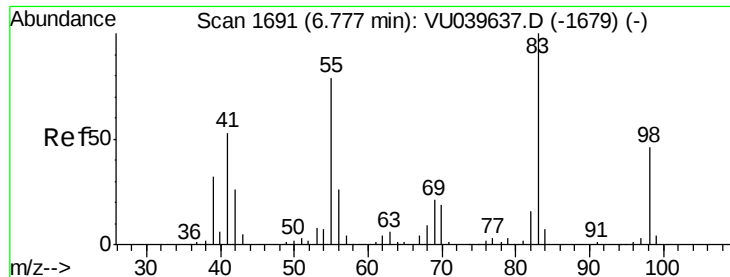
Tgt Ion: 95 Resp: 2497  
Ion Ratio Lower Upper  
95 100  
97 50.8 45.5 84.5  
132 83.6 65.0 120.6  
130 91.8 67.9 126.1



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0  
Ion 132.00 (131.70 to 132.70): V  
Ion 130.00 (129.70 to 130.70): V

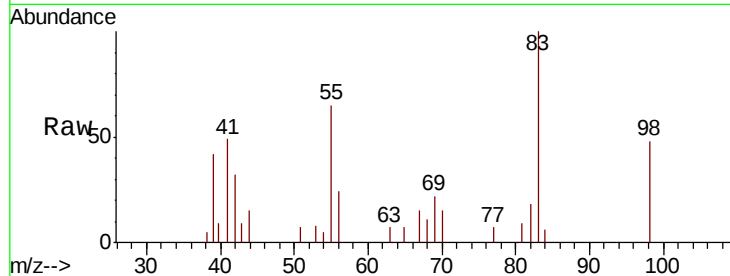




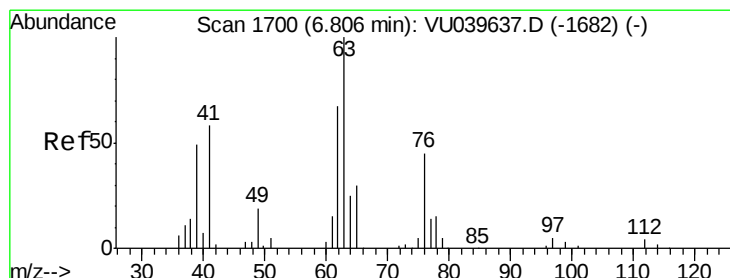
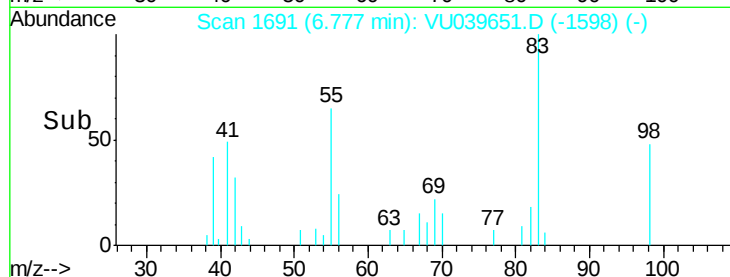
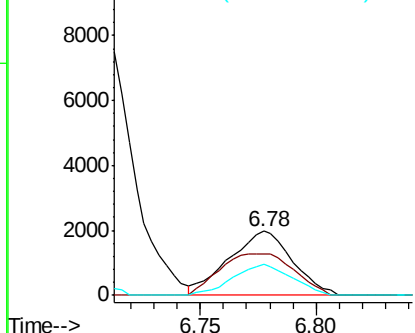
#35  
Methvlcvclohexane  
Concen: 1.830 ug/L  
RT: 6.78 min Scan# 1691  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 83 Resp: 3748  
Ion Ratio Lower Upper  
83 100  
55 75.7 62.9 94.3  
98 45.1 36.3 54.5

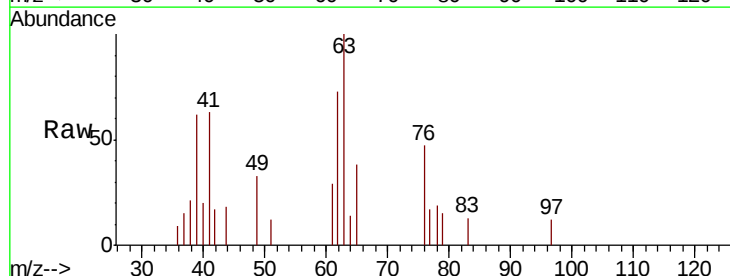


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

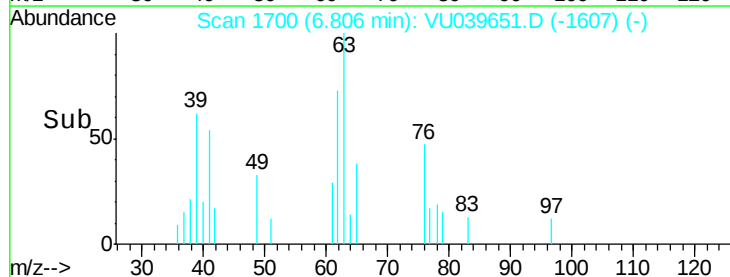
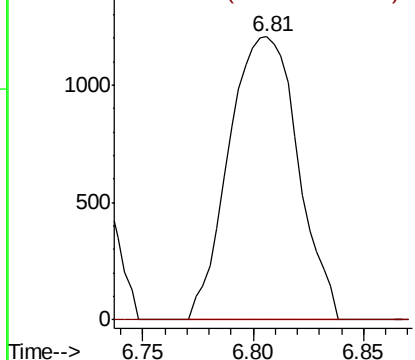


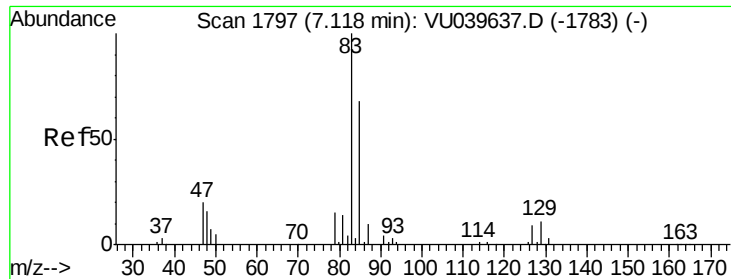
#37  
1,2-Dichloropropane  
Concen: 1.935 ug/L  
RT: 6.81 min Scan# 1700  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 63 Resp: 2623  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.0 4.4#



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 112.00 (111.70 to 112.70): V

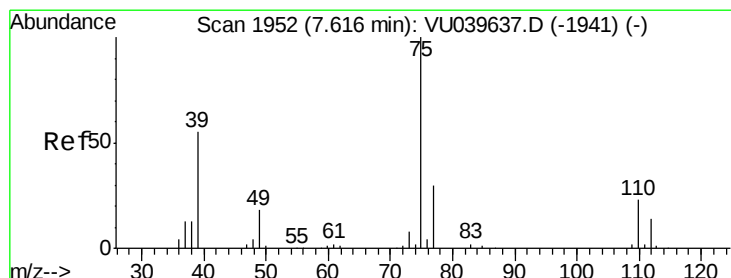
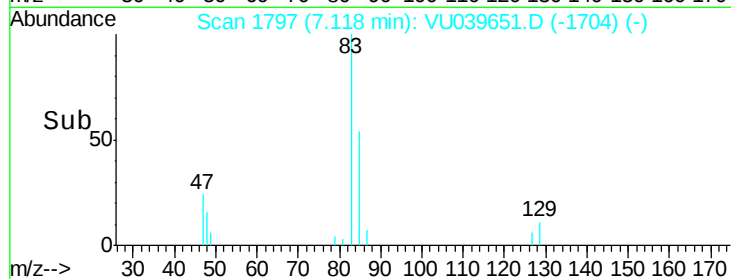
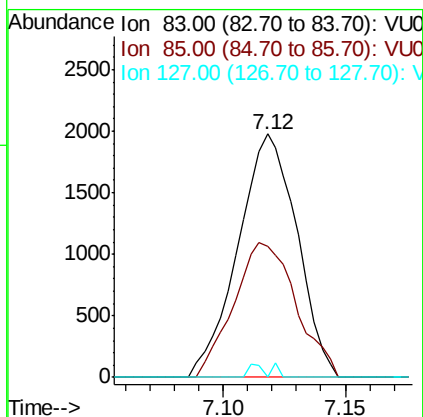
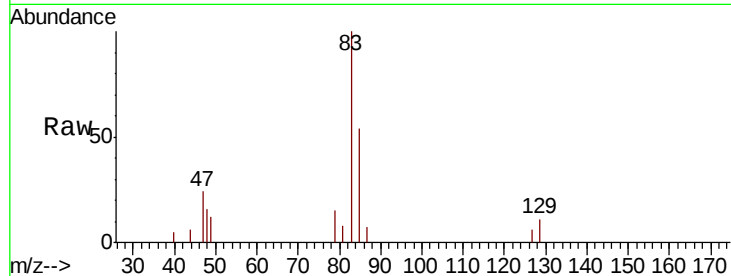




#38  
 Bromodichloromethane  
 Concen: 1.837 ug/L  
 RT: 7.12 min Scan# 1797  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

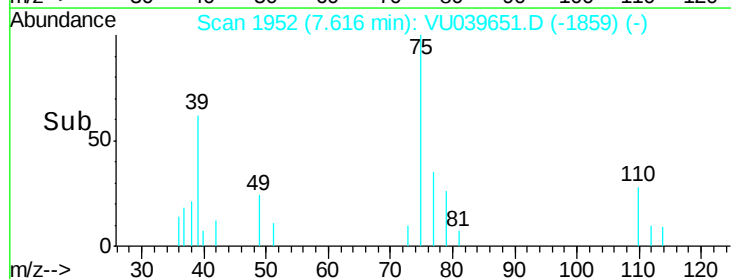
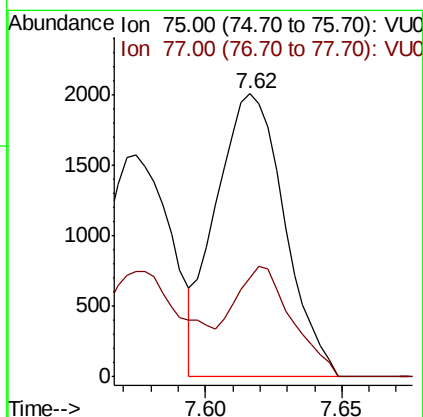
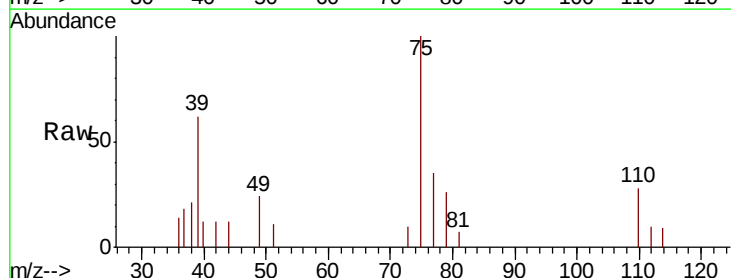
Instrument :  
 MSVOA\_U  
 ClientSampleId :

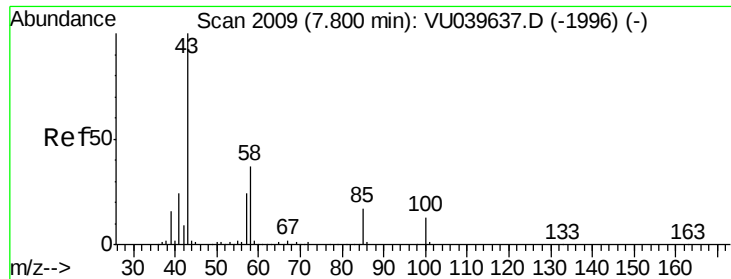
Tot Ion: 83 Resp: 3307  
 Ion Ratio Lower Upper  
 83 100  
 85 53.7 45.9 85.3  
 127 0.0 7.4 11.2#



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.732 ug/L  
 RT: 7.62 min Scan# 1952  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion: 75 Resp: 3509  
 Ion Ratio Lower Upper  
 75 100  
 77 35.2 21.8 40.6

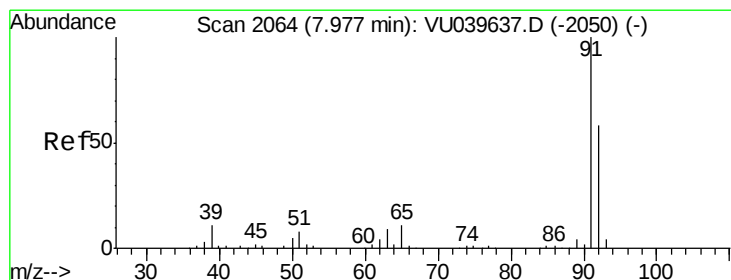
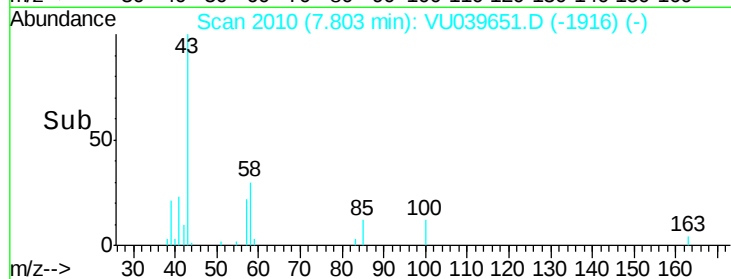
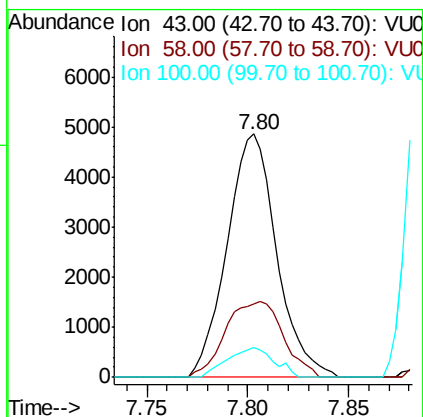
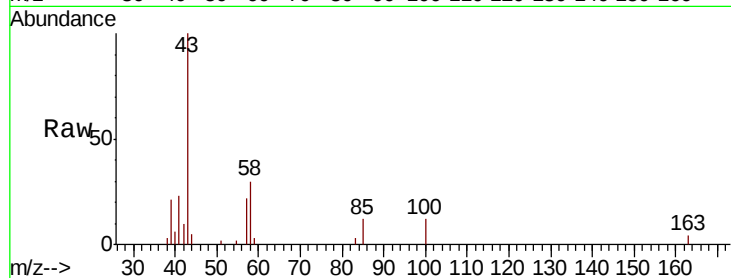




#40  
4-Methyl-2-pentanone  
Concen: 3.544 ug/L  
RT: 7.80 min Scan# 2010  
Delta R.T. 0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

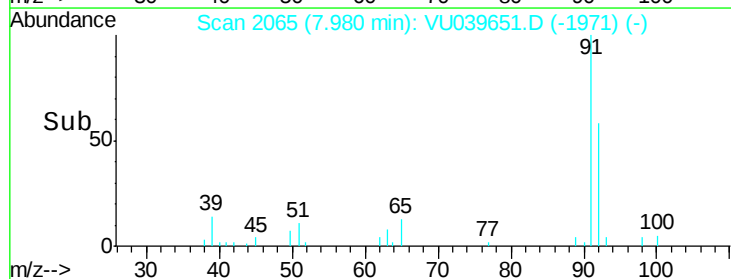
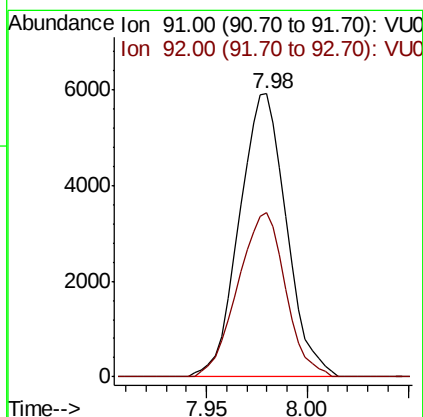
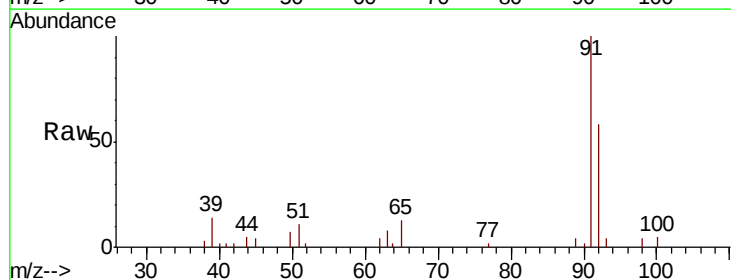
Instrument :  
MSVOA\_U  
ClientSampled :

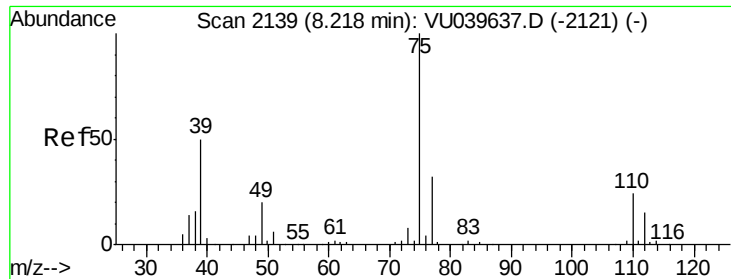
Tot Ion: 43 Resp: 8370  
Ion Ratio Lower Upper  
43 100  
58 36.2 29.1 43.7  
100 10.6 10.6 16.0#



#42  
Toluene  
Concen: 1.754 ug/L  
RT: 7.98 min Scan# 2065  
Delta R.T. 0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 91 Resp: 9657  
Ion Ratio Lower Upper  
91 100  
92 58.0 40.1 74.5

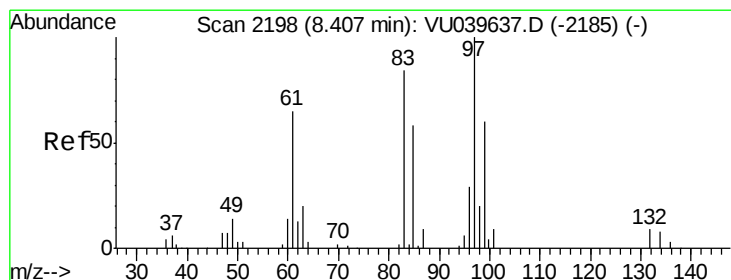
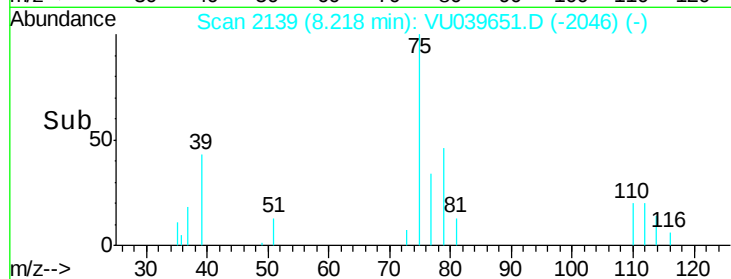
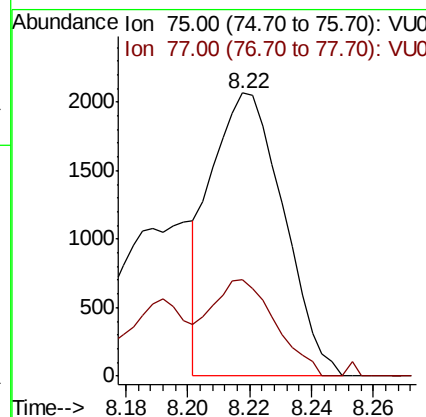
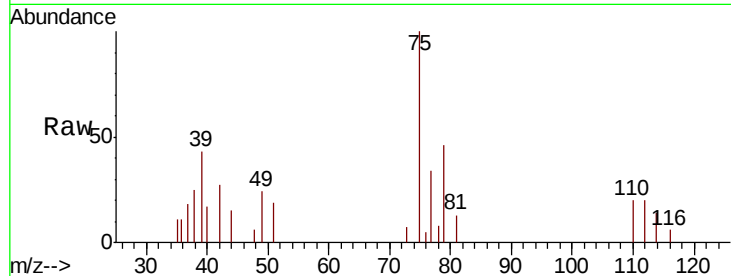




#44  
trans-1,3-Dichloropropene  
Concen: 1.686 ug/L  
RT: 8.22 min Scan# 2139  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

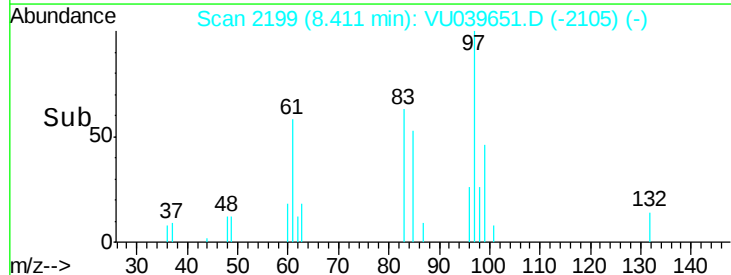
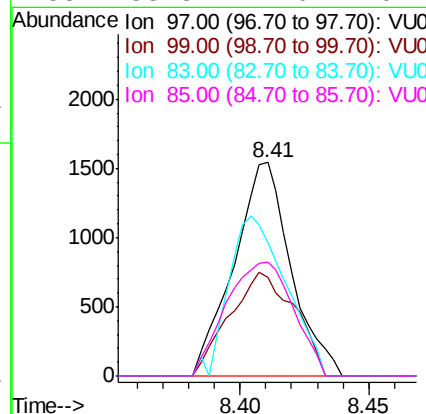
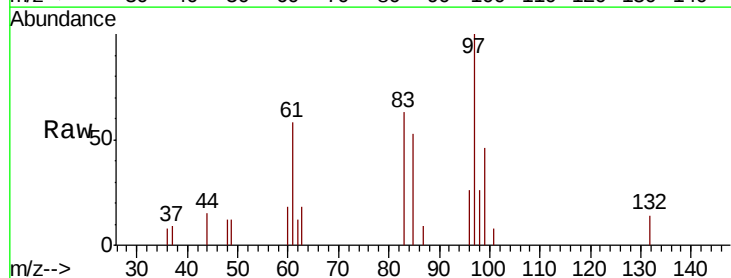
Instrument :  
MSVOA\_U  
ClientSampleId :

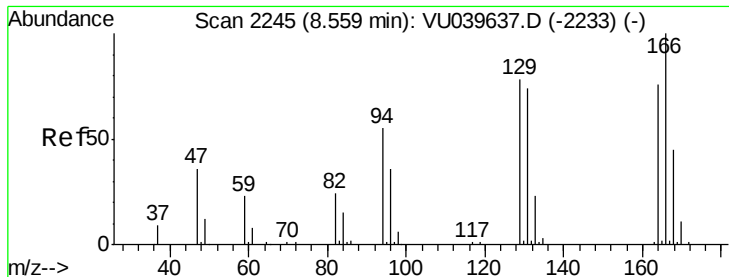
Tot Ion: 75 Resp: 3345  
Ion Ratio Lower Upper  
75 100  
77 34.1 22.7 42.1



#45  
1,1,2-Trichloroethane  
Concen: 1.850 ug/L  
RT: 8.41 min Scan# 2199  
Delta R.T. 0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 97 Resp: 2392  
Ion Ratio Lower Upper  
97 100  
99 46.1 45.1 83.9  
83 62.5 62.7 116.5#  
85 53.3 41.0 76.2

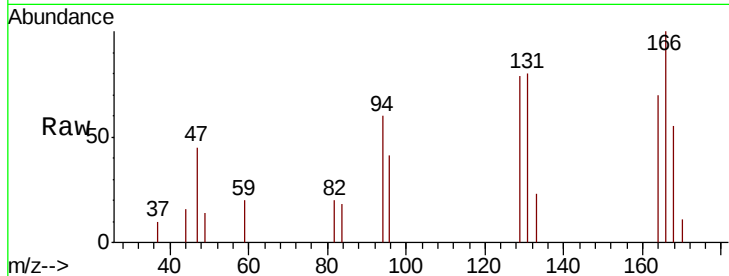




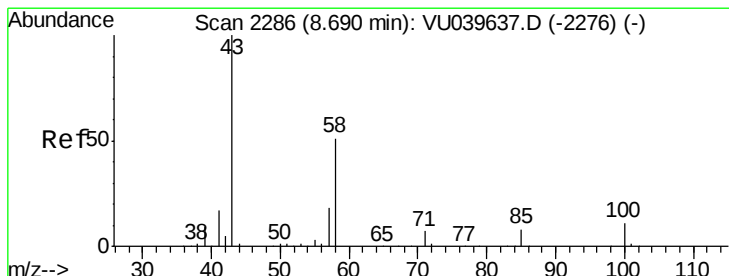
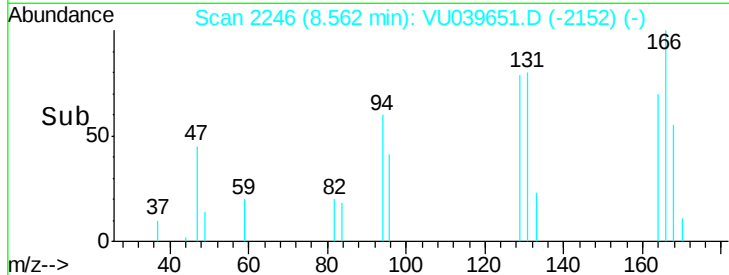
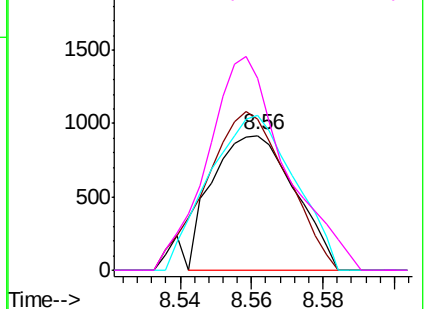
#46  
Tetrachloroethene  
Concen: 1.468 ug/L  
RT: 8.56 min Scan# 2246  
Delta R.T. 0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:164 Resp: 1470  
Ion Ratio Lower Upper  
164 100  
129 112.2 71.1 132.1  
131 114.8 70.3 130.5  
166 142.8 87.8 163.0

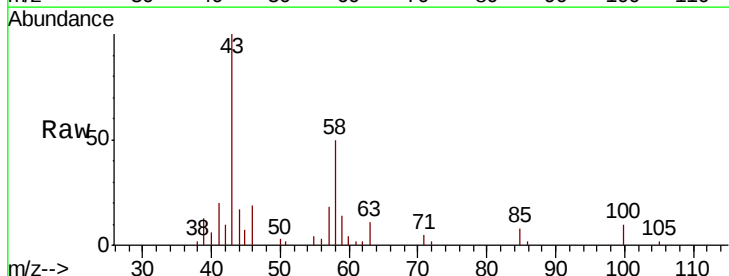


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

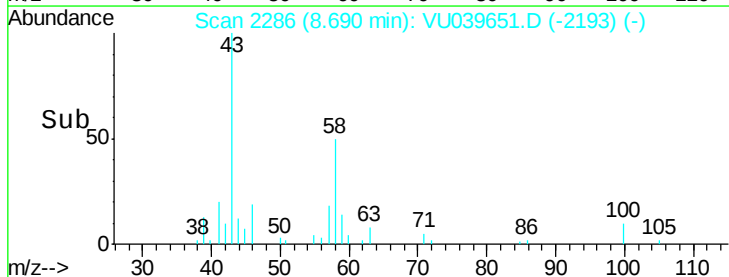
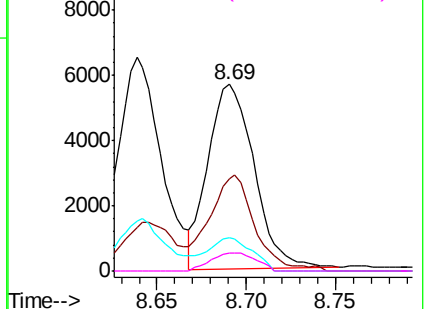


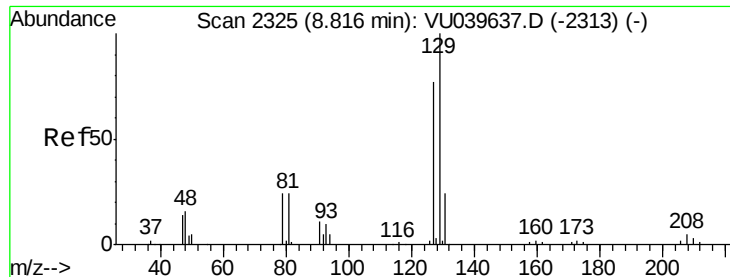
#48  
2-Hexanone  
Concen: 5.259 ug/L  
RT: 8.69 min Scan# 2286  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion: 43 Resp: 10119  
Ion Ratio Lower Upper  
43 100  
58 51.7 40.6 61.0  
57 16.9 14.5 21.7  
100 9.5 8.0 12.0



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 1.559 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

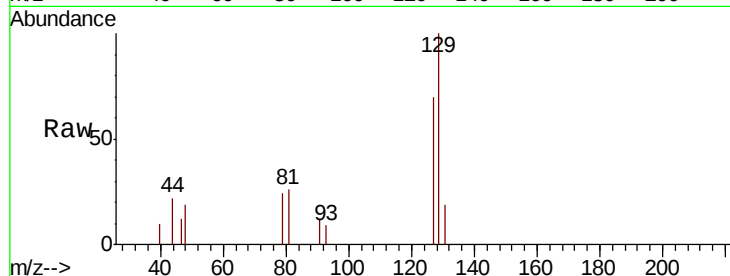
ClientSampleId :

Tot Ion:129 Resp: 2276

Ion Ratio Lower Upper

129 100

127 69.5 54.3 100.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.82

1500

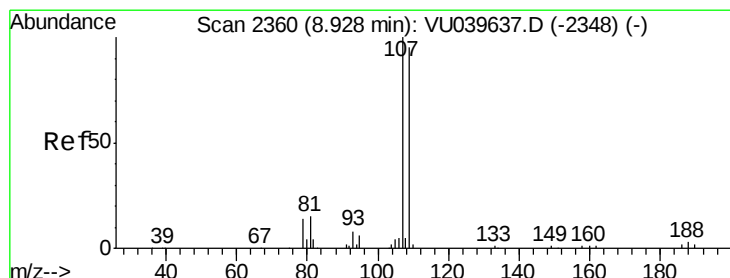
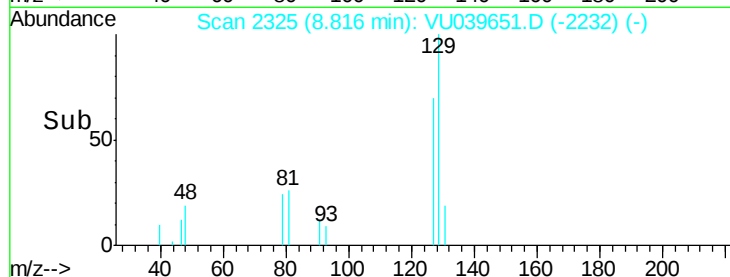
1000

500

0

8.78 8.80 8.82 8.84 8.86

Time-->



#50

1,2-Dibromoethane

Concen: 1.756 ug/L

RT: 8.93 min Scan# 2360

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

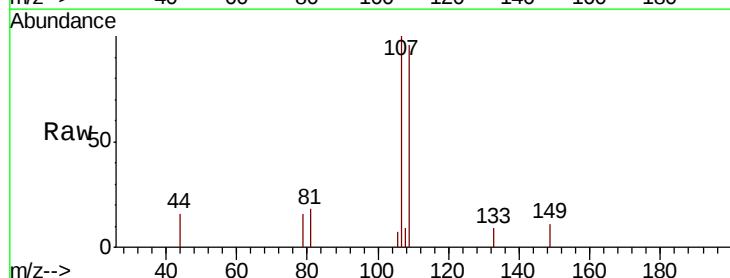
Tgt Ion:107 Resp: 2526

Ion Ratio Lower Upper

107 100

109 96.2 66.8 124.2

188 0.0 3.0 4.4#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.93

2000

1500

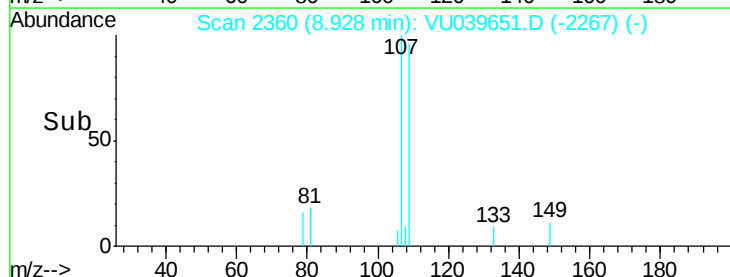
1000

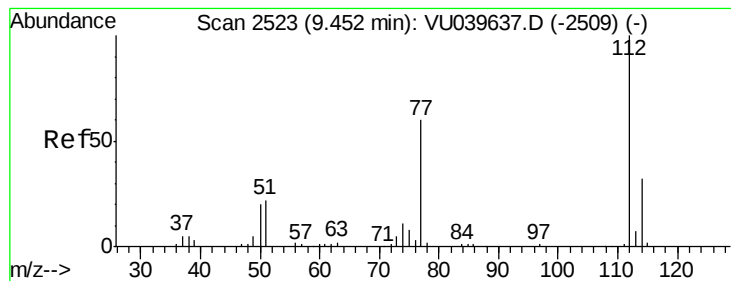
500

0

8.90 8.95

Time-->





#51

Chlorobenzene

Concen: 1.829 ug/L

RT: 9.45 min Scan# 2523

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampleId :

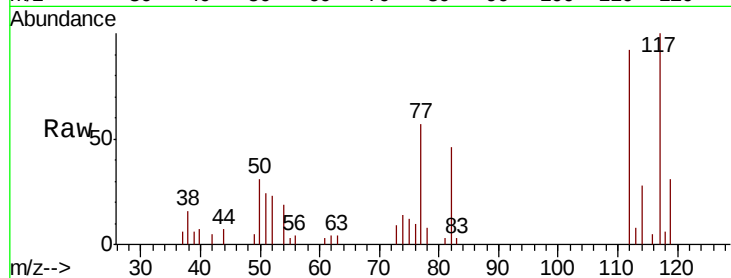
Tot Ion:112 Resp: 6425

Ion Ratio Lower Upper

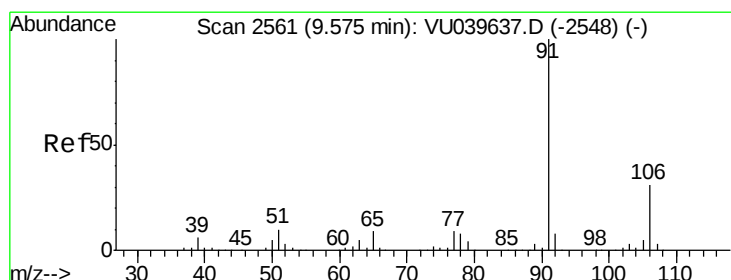
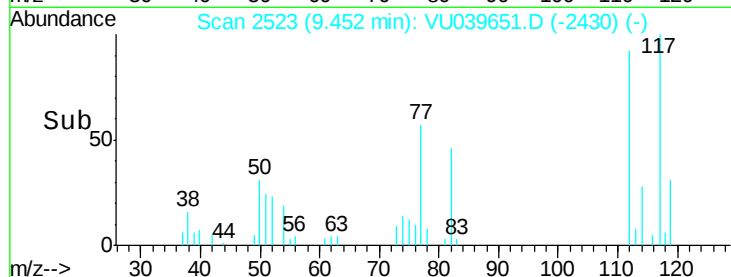
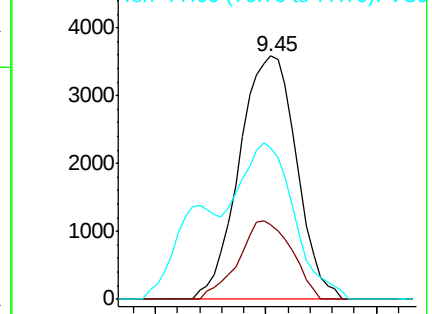
112 100

114 30.7 22.9 42.5

77 62.1 49.4 74.0



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



#52

Ethylbenzene

Concen: 1.719 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039651.D

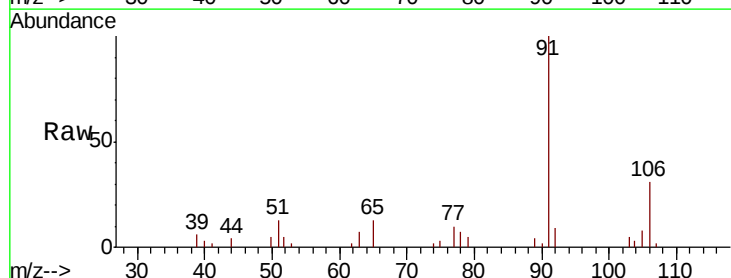
Acq: 23 Jul 2020 20:53

Tgt Ion: 91 Resp: 10462

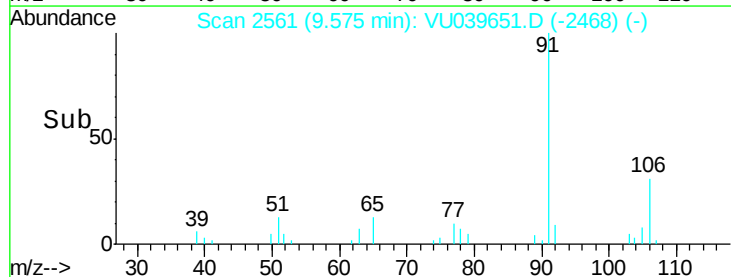
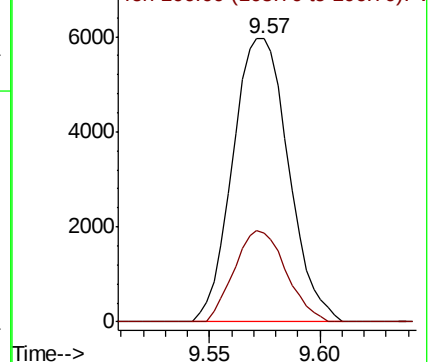
Ion Ratio Lower Upper

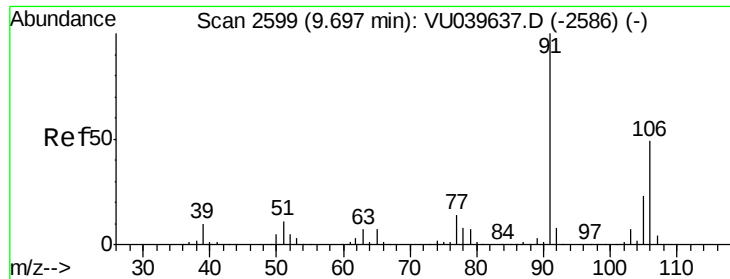
91 100

106 31.2 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 106.00 (105.70 to 106.70): V

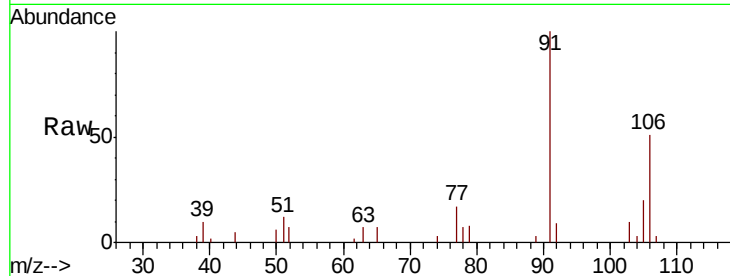




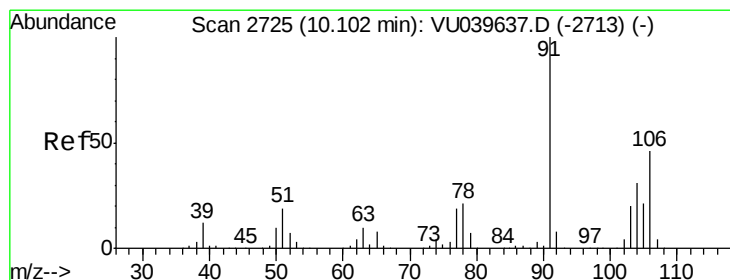
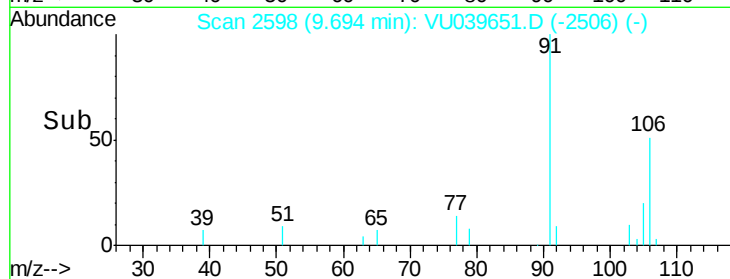
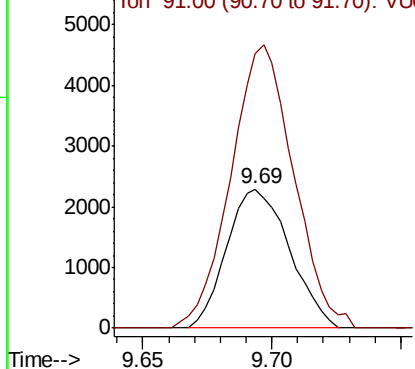
#53  
m,p-Xylene  
Concen: 1.690 ug/L  
RT: 9.69 min Scan# 2598  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:106 Resp: 3875  
Ion Ratio Lower Upper  
106 100  
91 197.4 149.7 277.9

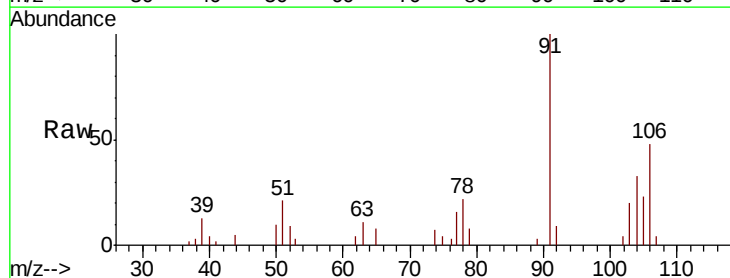


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

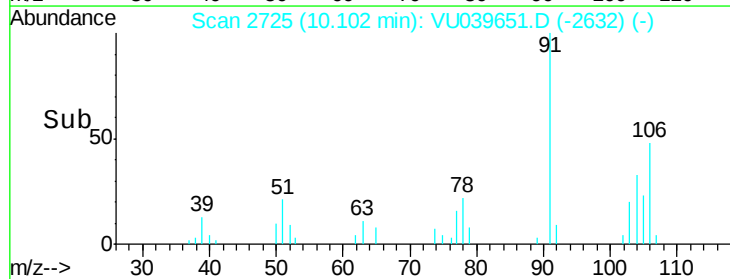
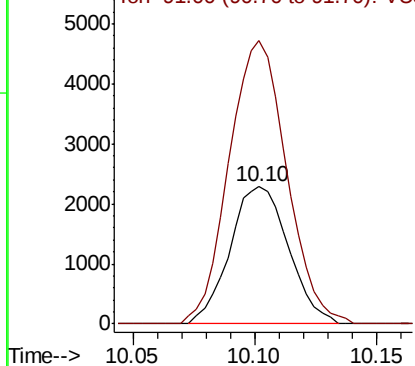


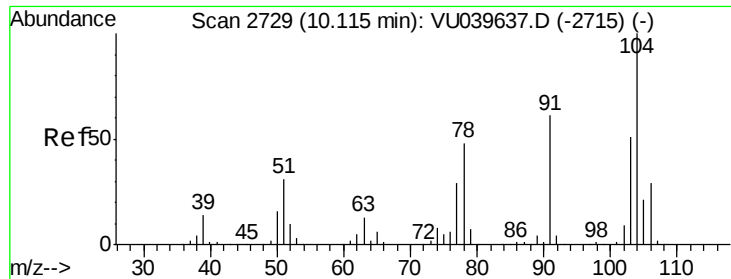
#54  
o-xylene  
Concen: 1.732 ug/L  
RT: 10.10 min Scan# 2725  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion:106 Resp: 3813  
Ion Ratio Lower Upper  
106 100  
91 206.7 155.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

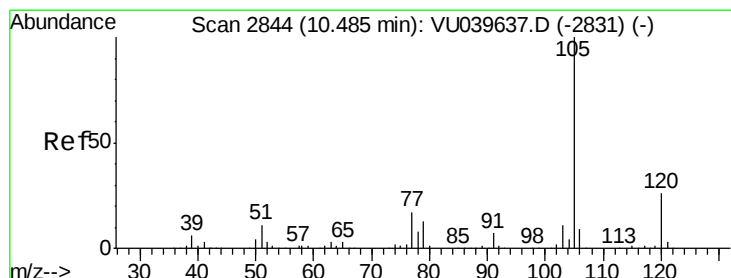
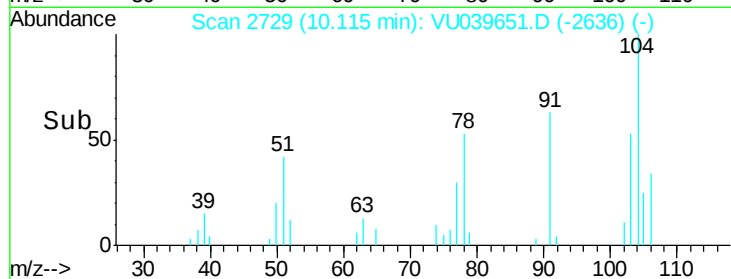
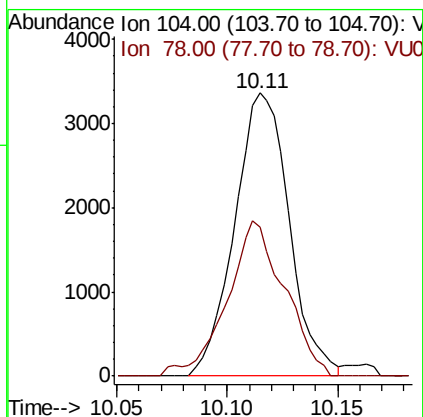
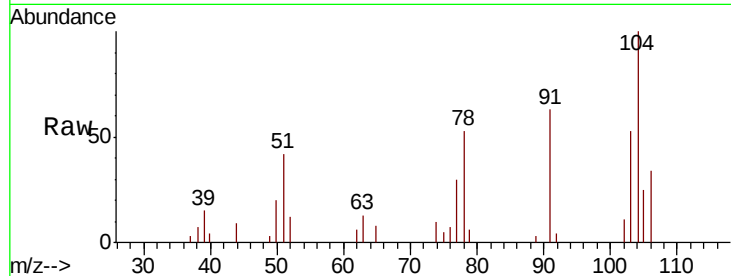




#55  
Stvrene  
Concen: 1.513 ug/L  
RT: 10.11 min Scan# 2729  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

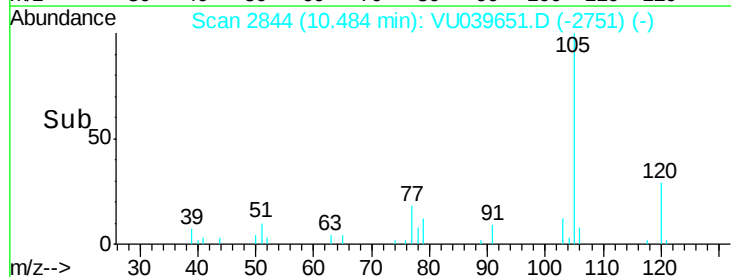
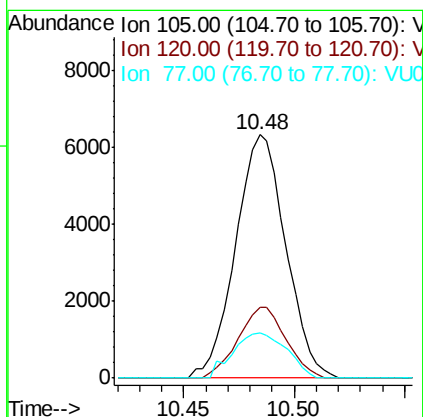
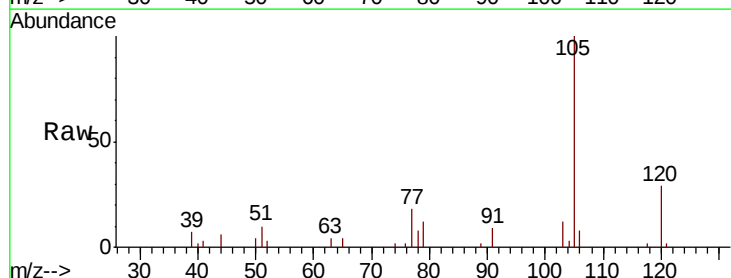
Instrument :  
MSVOA\_U  
ClientSampled :

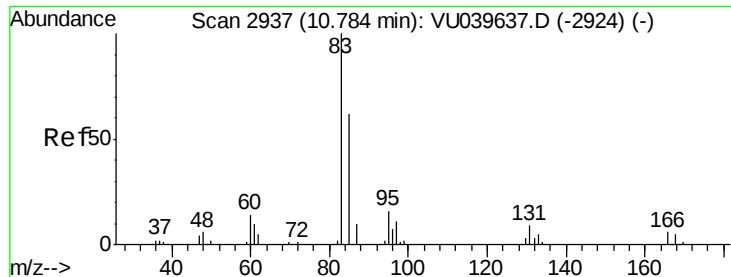
Tot Ion:104 Resp: 5761  
Ion Ratio Lower Upper  
104 100  
78 52.7 34.3 63.7



#56  
Isopropylbenzene  
Concen: 1.664 ug/L  
RT: 10.48 min Scan# 2844  
Delta R.T. -0.00 min  
Lab File: VU039651.D  
Acq: 23 Jul 2020 20:53

Tgt Ion:105 Resp: 9944  
Ion Ratio Lower Upper  
105 100  
120 28.0 20.6 31.0  
77 19.8 13.4 20.2

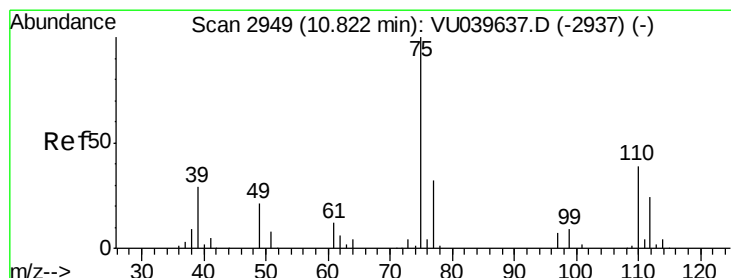
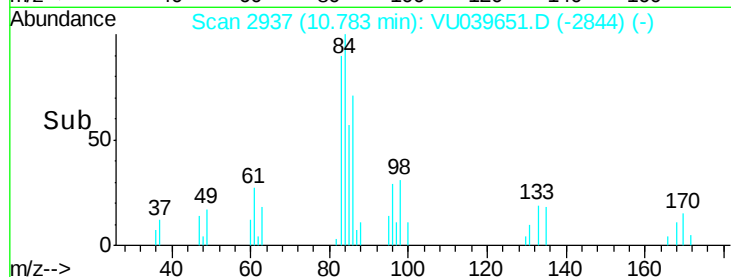
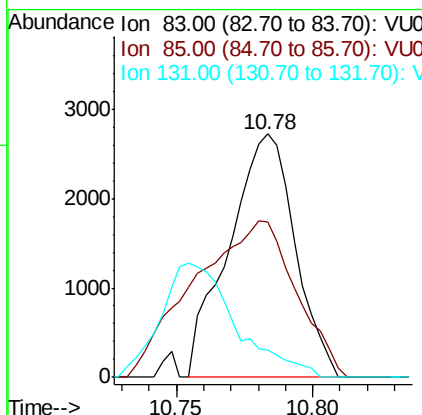
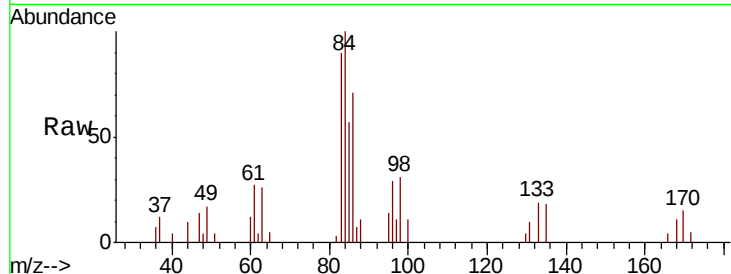




#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 1.944 ug/L  
 RT: 10.78 min Scan# 2937  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

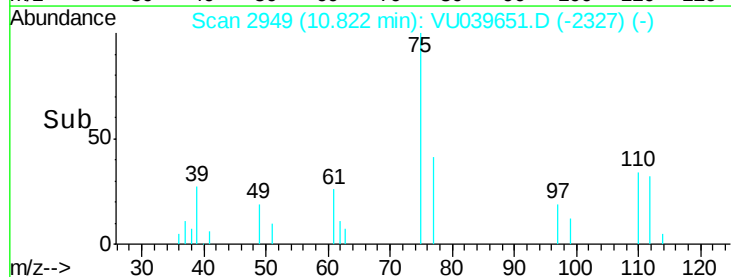
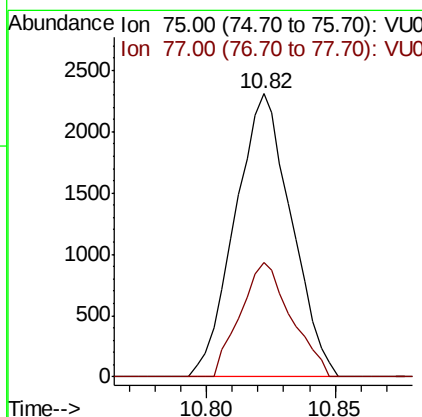
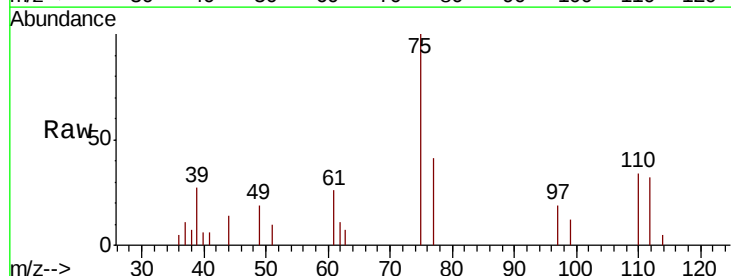
Instrument :  
 MSVOA\_U  
 ClientSampled :

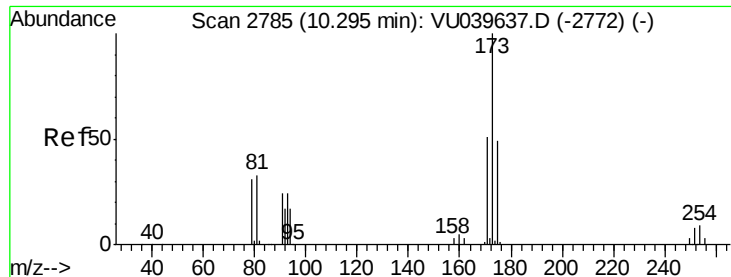
Tot Ion: 83 Resp: 4580  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 46.4 86.2  
 131 11.2 7.8 11.6



#59  
 1,2,3-Trichloropropane  
 Concen: 1.789 ug/L  
 RT: 10.82 min Scan# 2949  
 Delta R.T. -0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion: 75 Resp: 3519  
 Ion Ratio Lower Upper  
 75 100  
 77 36.4 25.4 38.2





#61

Bromoform

Concen: 1.519 ug/L

RT: 10.29 min Scan# 2785

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

ClientSampleId :

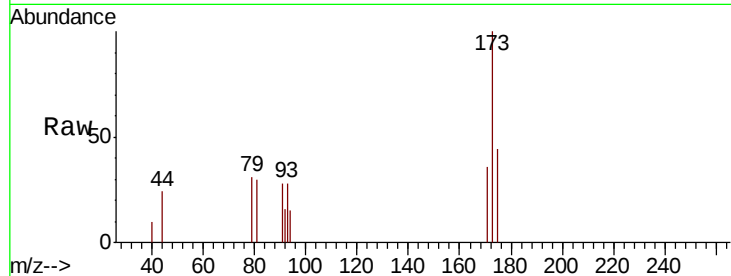
Tot Ion:173 Resp: 1528

Ion Ratio Lower Upper

173 100

175 49.3 38.4 57.6

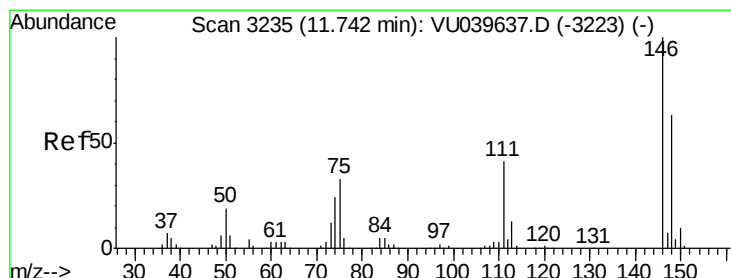
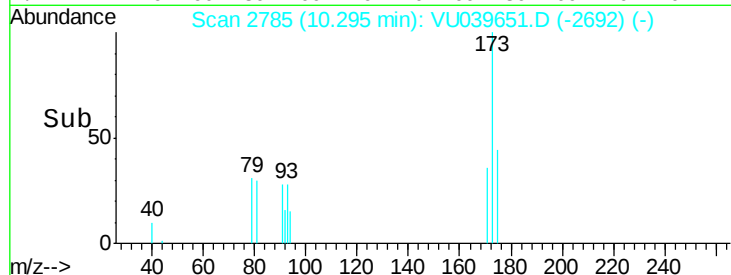
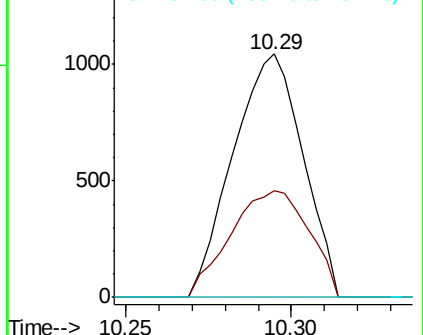
254 0.0 7.0 10.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 1.726 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

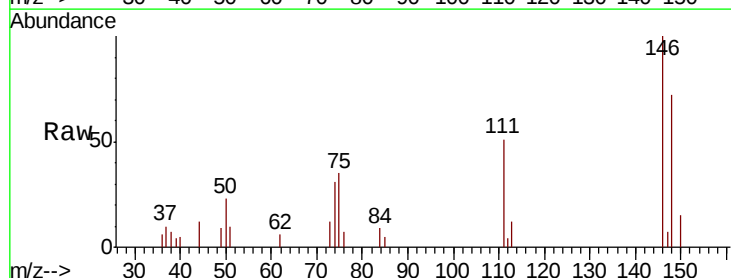
Tgt Ion:146 Resp: 4495

Ion Ratio Lower Upper

146 100

111 51.0 29.3 54.3

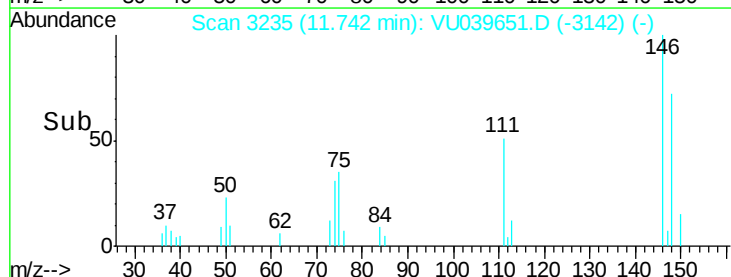
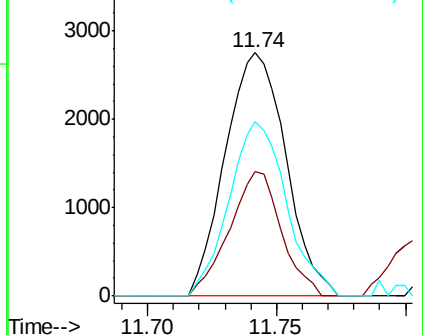
148 71.8 46.1 85.5

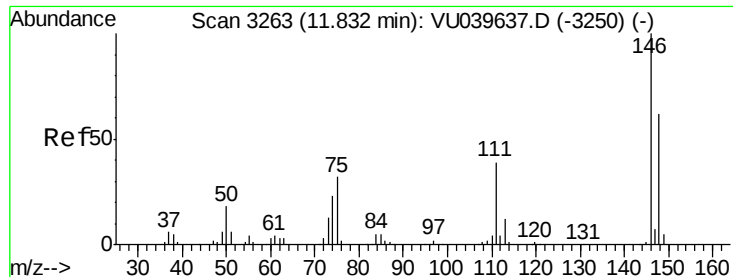


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1.917 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU039651.D

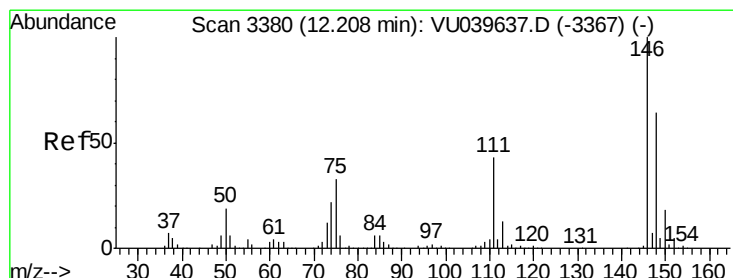
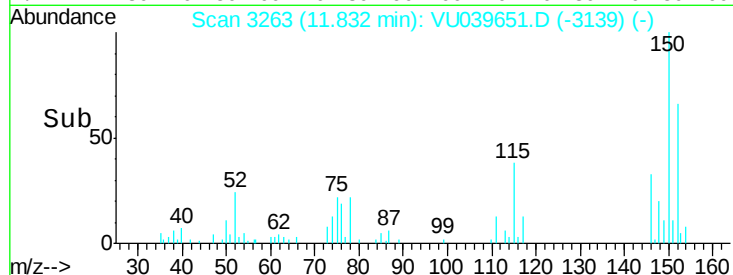
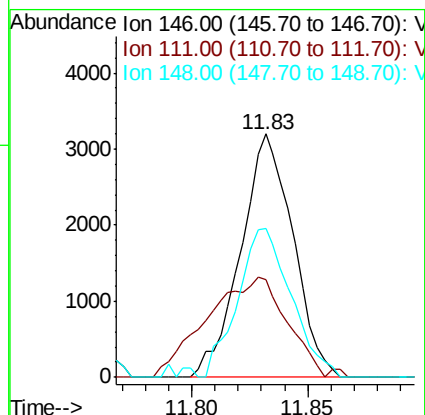
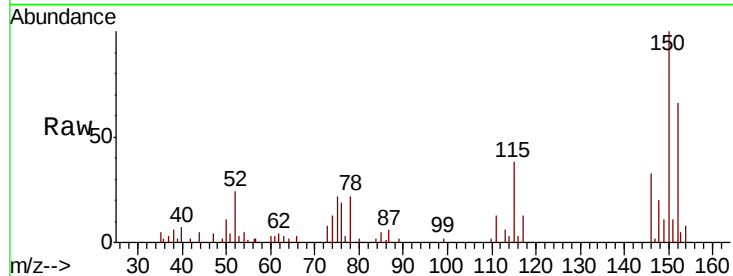
Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 5002  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 39.9  | 27.8  | 51.6  |
| 148      | 61.0  | 44.7  | 83.1  |



#65

1,2-Dichlorobenzene

Concen: 1.804 ug/L

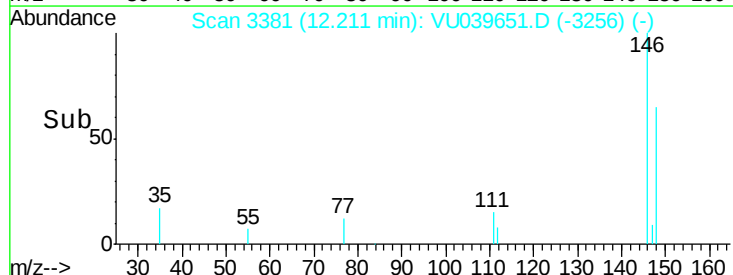
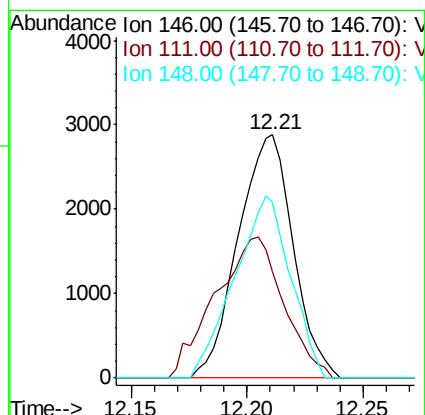
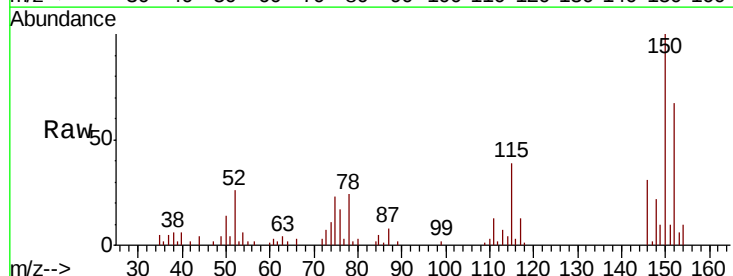
RT: 12.21 min Scan# 3381

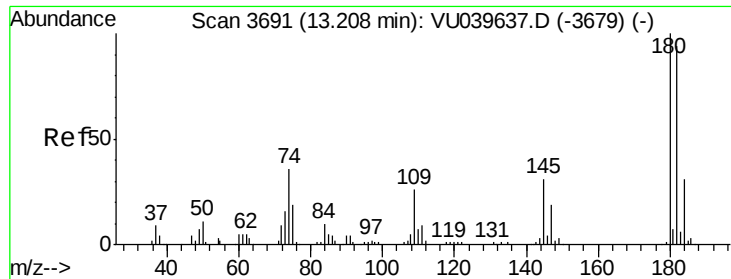
Delta R.T. 0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 4748  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 43.7  | 34.8  | 52.2  |
| 148      | 72.0  | 52.5  | 78.7  |

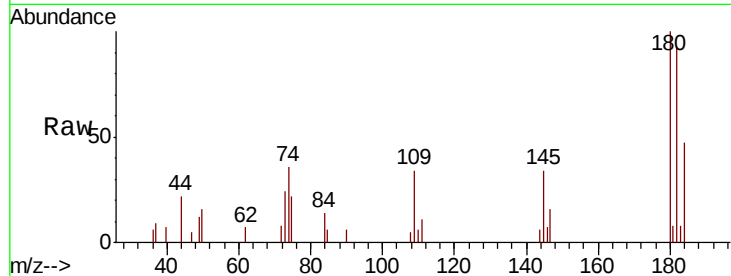




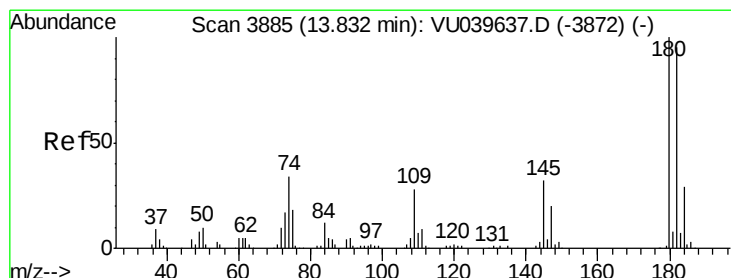
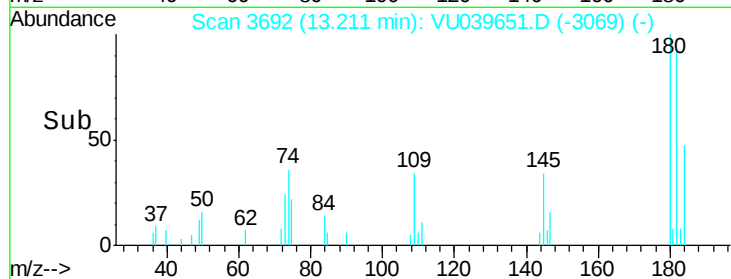
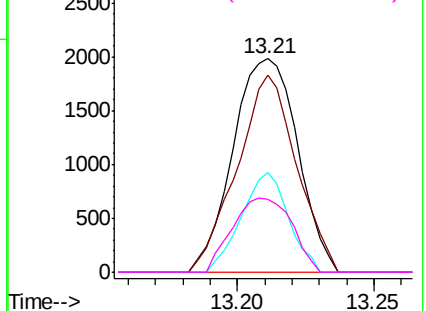
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.739 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. 0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:180 Resp: 3267  
 Ion Ratio Lower Upper  
 180 100  
 182 84.5 75.7 113.5  
 184 34.0 24.2 36.2  
 145 32.0 24.6 36.8

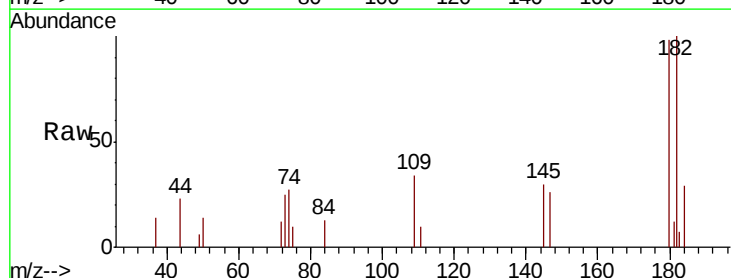


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

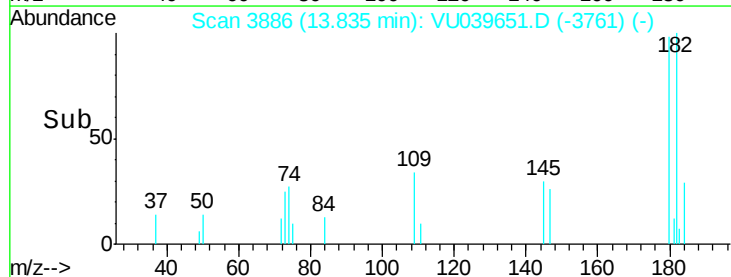
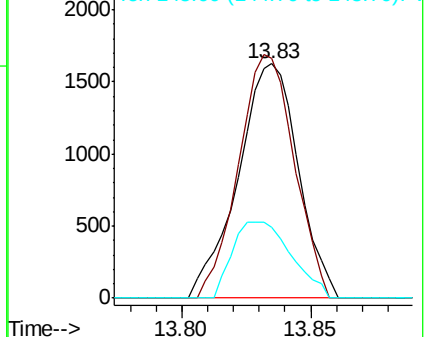


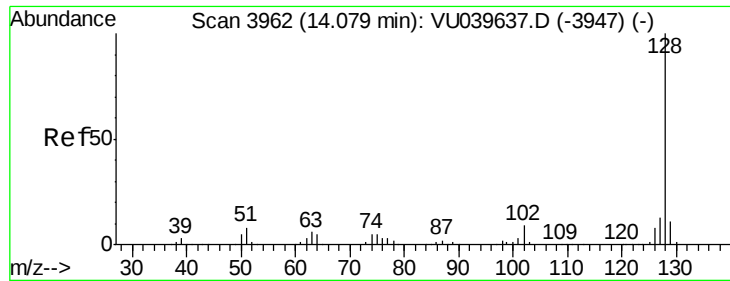
#68  
 1,2,4-trichlorobenzene  
 Concen: 1.659 ug/L  
 RT: 13.83 min Scan# 3886  
 Delta R.T. 0.00 min  
 Lab File: VU039651.D  
 Acq: 23 Jul 2020 20:53

Tgt Ion:180 Resp: 2645  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 74.4 111.6  
 145 31.8 24.8 37.2



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





#69

Naphthalene

Concen: 1.419 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

Instrument :

MSVOA\_U

ClientSampled :

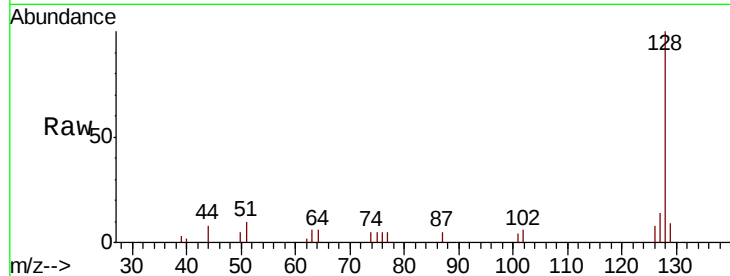
Tot Ion:128 Resp: 6785

Ion Ratio Lower Upper

128 100

127 16.5 10.7 16.1#

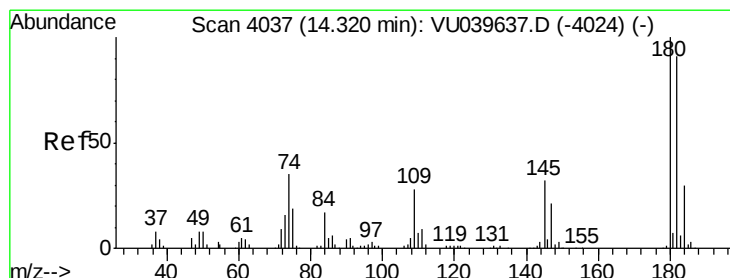
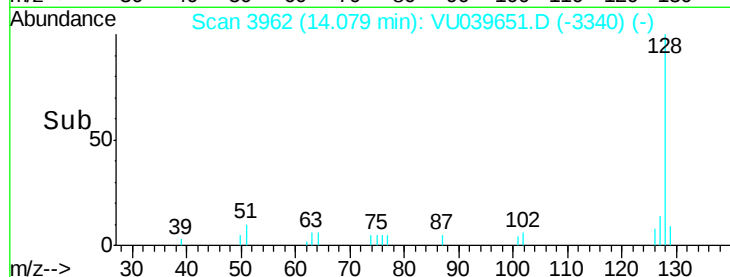
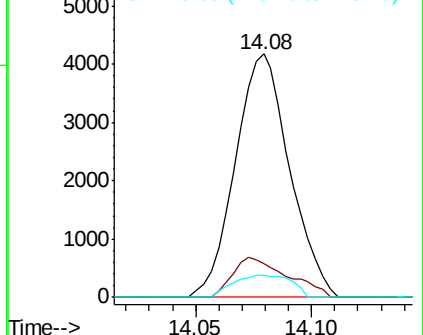
129 9.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.507 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU039651.D

Acq: 23 Jul 2020 20:53

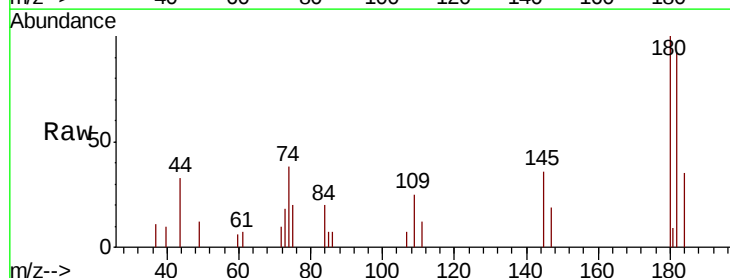
Tgt Ion:180 Resp: 2427

Ion Ratio Lower Upper

180 100

182 96.2 76.6 114.8

145 32.1 27.0 40.4



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

