

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090420\  
 Data File : VW016464.D  
 Acq On : 04 Sep 2020 15:12  
 Operator : SY/VA  
 Sample : MDL06  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 08 01:03:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 08 00:55:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 732597   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 653075   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 301293   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 163589   | 21.05    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 84.20% |
| 7) Chloroethane-d5             | 2.90   | 69    | 154151   | 22.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.36% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 275032   | 15.39    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 61.56% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 114130   | 41.11    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.22% |
| 24) Chloroform-d               | 7.65   | 84    | 371944   | 21.67    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 86.68% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 205037   | 21.85    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 87.40% |
| 29) Benzene-d6                 | 8.27   | 84    | 741269   | 22.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.32% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 212660   | 21.80    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 87.20% |
| 37) Toluene-d8                 | 10.32  | 98    | 715259   | 22.67    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 90.68% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 104608   | 21.26    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 85.04% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 90497    | 45.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.80% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 185802   | 22.53    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 90.12% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 242620   | 23.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.20% |

## Target Compounds

|                              |      |     |       |              | Ovalue |
|------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane   | 2.03 | 85  | 5492  | 0.670 ug/L   | 99     |
| 3) Chloromethane             | 2.22 | 50  | 4576  | 0.636 ug/L   | 99     |
| 5) Vinyl chloride            | 2.37 | 62  | 7334  | 0.800 ug/L # | 38     |
| 6) Bromomethane              | 2.79 | 94  | 4755  | 0.694 ug/L   | 83     |
| 8) Chloroethane              | 2.93 | 64  | 4564  | 0.809 ug/L   | 89     |
| 9) Trichlorofluoromethane    | 3.28 | 101 | 4562  | 0.608 ug/L   | 99     |
| 12) 1,1-Dichloroethene       | 4.05 | 96  | 8606  | 0.953 ug/L # | 1      |
| 13) Acetone                  | 4.12 | 43  | 4533  | 2.544 ug/L   | 77     |
| 14) Carbon disulfide         | 4.39 | 76  | 17965 | 0.651 ug/L # | 94     |
| 16) Methylene chloride       | 4.92 | 84  | 21341 | 1.867 ug/L   | 86     |
| 17) Methyl tert-butyl Ether  | 5.43 | 73  | 9440  | 0.697 ug/L # | 69     |
| 18) trans-1,2-Dichloroethene | 5.43 | 96  | 6526  | 0.681 ug/L   | 88     |
| 19) 1,1-Dichloroethane       | 6.21 | 63  | 9659  | 0.592 ug/L   | 92     |
| 22) cis-1,2-Dichloroethene   | 7.17 | 96  | 6598  | 0.660 ug/L   | 92     |
| 23) Bromochloromethane       | 7.52 | 128 | 3284  | 0.709 ug/L # | 58     |
| 27) 1,2-Dichloroethane       | 8.40 | 62  | 7505  | 0.667 ug/L   | 99     |
| 30) Cyclohexane              | 7.95 | 56  | 9650  | 0.619 ug/L # | 92     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090420\  
 Data File : VW016464.D  
 Acq On : 04 Sep 2020 15:12  
 Operator : SY/VA  
 Sample : MDL06  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

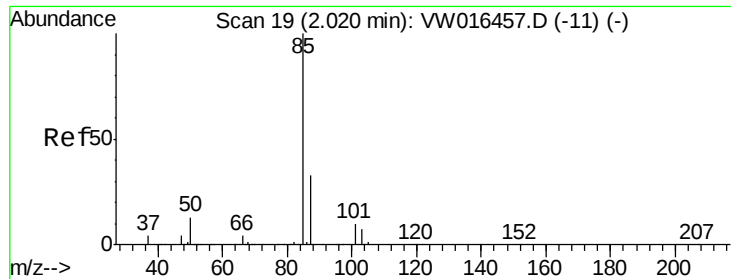
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 08 01:03:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 08 00:55:12 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 31) 1,1,1-Trichloroethane     | 7.87  | 97   | 9642     | 0.682 | ug/L   | 98       |
| 32) Carbon tetrachloride      | 8.07  | 117  | 9228     | 0.682 | ug/L   | 97       |
| 34) Benzene                   | 8.32  | 78   | 23842    | 0.668 | ug/L   | 100      |
| 35) Trichloroethene           | 9.09  | 95   | 7154     | 0.723 | ug/L   | 94       |
| 36) Methylcyclohexane         | 9.34  | 83   | 12469    | 0.720 | ug/L   | 98       |
| 40) 1,2-Dichloropropane       | 9.37  | 63   | 5633     | 0.638 | ug/L   | 100      |
| 41) Bromodichloromethane      | 9.65  | 83   | 8353     | 0.677 | ug/L   | 88       |
| 42) cis-1,3-Dichloropropene   | 10.08 | 75   | 8973     | 0.599 | ug/L   | 96       |
| 44) Toluene                   | 10.39 | 91   | 27068    | 0.677 | ug/L   | 97       |
| 45) trans-1,3-Dichloropropene | 10.60 | 75   | 8002     | 0.598 | ug/L   | 97       |
| 46) 1,1,2-Trichloroethane     | 10.79 | 97   | 4781     | 0.683 | ug/L   | 95       |
| 47) Tetrachloroethene         | 10.86 | 164  | 5487     | 0.692 | ug/L   | 90       |
| 50) Dibromochloromethane      | 11.13 | 129  | 5599     | 0.633 | ug/L   | 94       |
| 51) 1,2-Dibromoethane         | 11.24 | 107  | 4500     | 0.644 | ug/L # | 84       |
| 52) Chlorobenzene             | 11.66 | 112  | 16513    | 0.651 | ug/L   | 91       |
| 53) Ethylbenzene              | 11.73 | 91   | 29350    | 0.652 | ug/L   | 97       |
| 54) m,p-Xylene                | 11.84 | 106  | 12008    | 0.698 | ug/L   | 84       |
| 55) o-xylene                  | 12.17 | 106  | 10666    | 0.651 | ug/L   | 95       |
| 56) Styrene                   | 12.18 | 104  | 17799    | 0.632 | ug/L   | 99       |
| 57) Isopropylbenzene          | 12.47 | 105  | 32070    | 0.715 | ug/L # | 85       |
| 58) 1,1,2,2-Tetrachloroethane | 12.71 | 83   | 6896     | 0.827 | ug/L # | 92       |
| 59) 1,2,3-Trichloropropane    | 12.77 | 75   | 4282     | 0.687 | ug/L   | 98       |
| 62) Bromoform                 | 12.35 | 173  | 3141     | 0.621 | ug/L # | 97       |
| 63) 1,3-Dichlorobenzene       | 13.50 | 146  | 13263    | 0.699 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene       | 13.58 | 146  | 13169    | 0.700 | ug/L   | 92       |
| 65) 1,2-Dichlorobenzene       | 13.87 | 146  | 11863    | 0.704 | ug/L # | 86       |
| 67) 1,3,5-Trichlorobenzene    | 14.63 | 180  | 8646     | 0.661 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene    | 15.13 | 180  | 7036     | 0.622 | ug/L   | 92       |
| 69) Naphthalene               | 15.37 | 128  | 12695    | 0.532 | ug/L # | 92       |
| 70) 1,2,3-Trichlorobenzene    | 15.56 | 180  | 5713     | 0.588 | ug/L   | 96       |
| -----                         |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 0.670 ug/L

RT: 2.03 min Scan# 20

Delta R.T. 0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

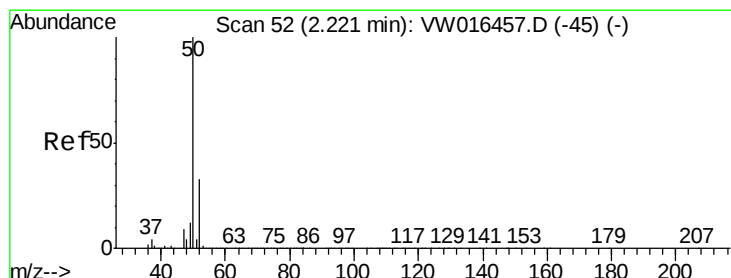
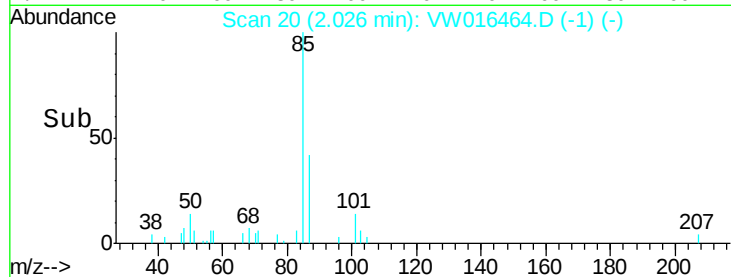
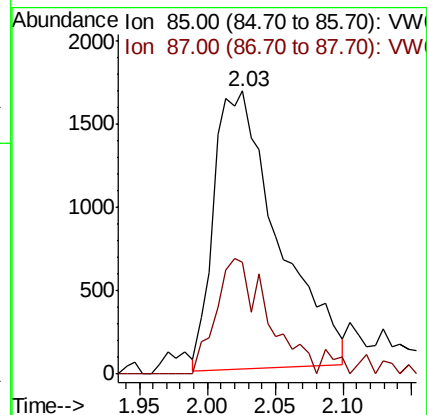
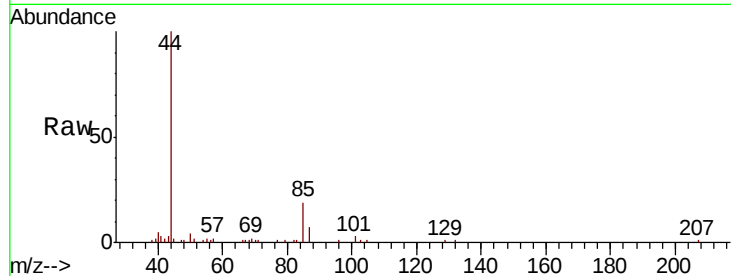
ClientSampleId :

Tot Ion: 85 Resp: 5492

Ion Ratio Lower Upper

85 100

87 31.4 22.3 41.5



#3

Chloromethane

Concen: 0.636 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW016464.D

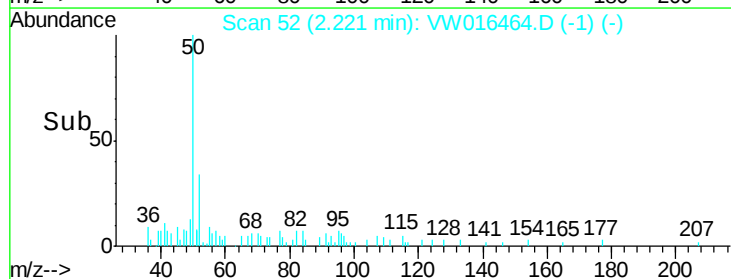
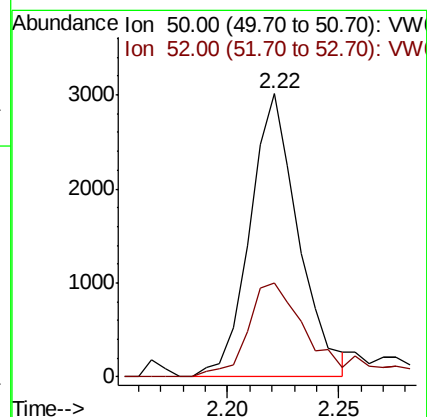
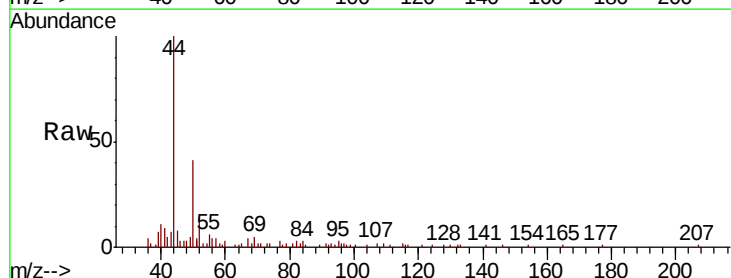
Acq: 04 Sep 2020 15:12

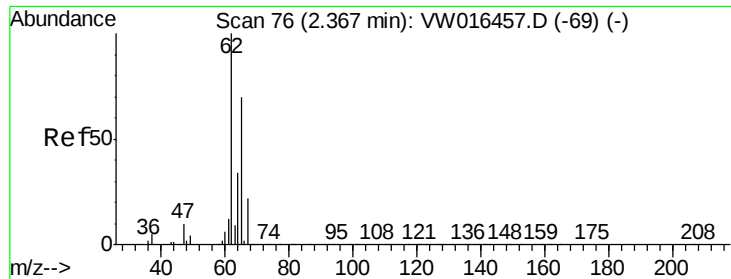
Tgt Ion: 50 Resp: 4576

Ion Ratio Lower Upper

50 100

52 33.2 23.0 42.6





#5

Vinyl chloride

Concen: 0.800 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

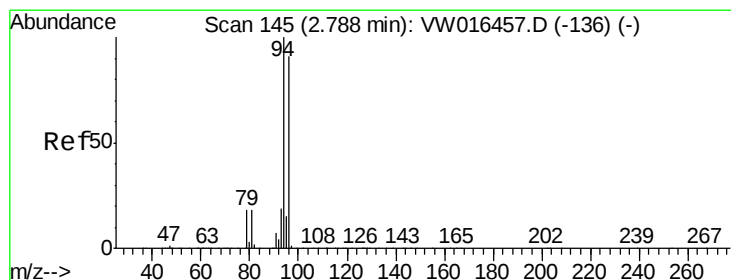
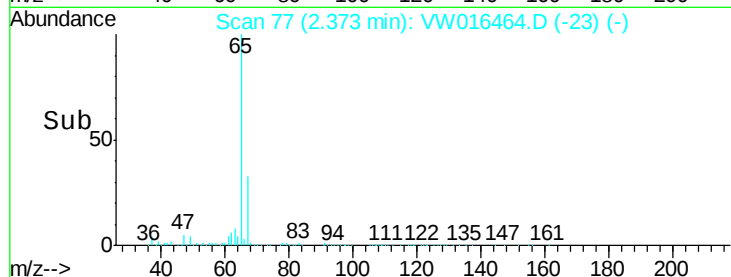
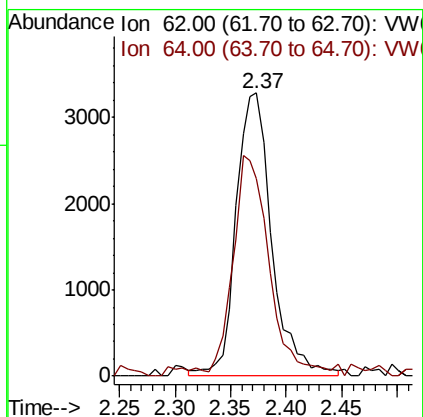
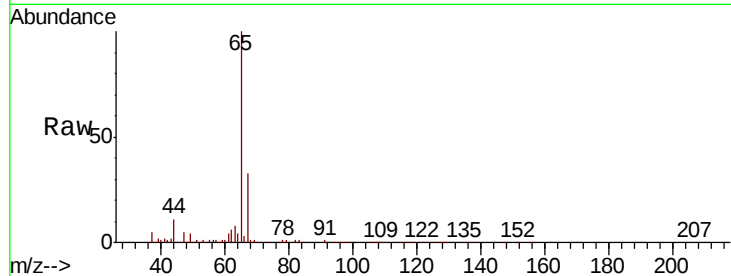
ClientSampled :

Tot Ion: 62 Resp: 7334

Ion Ratio Lower Upper

62 100

64 69.8 23.9 44.5#



#6

Bromomethane

Concen: 0.694 ug/L

RT: 2.79 min Scan# 145

Delta R.T. -0.01 min

Lab File: VW016464.D

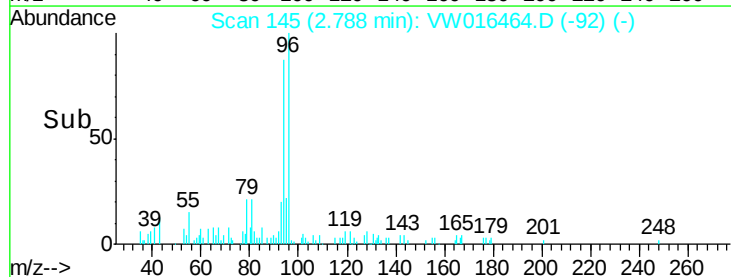
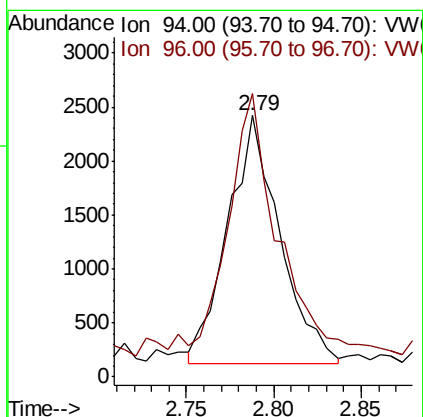
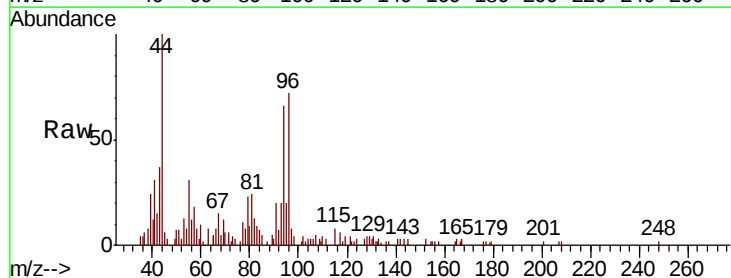
Acq: 04 Sep 2020 15:12

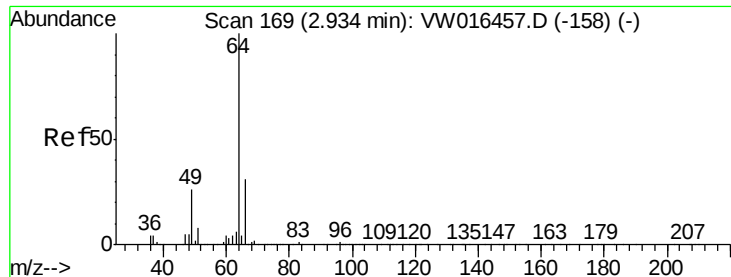
Tgt Ion: 94 Resp: 4755

Ion Ratio Lower Upper

94 100

96 110.3 9.4 178.2

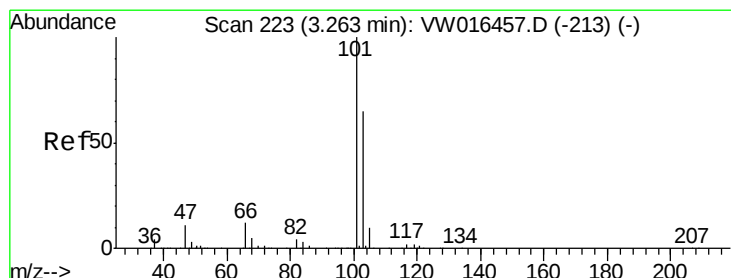
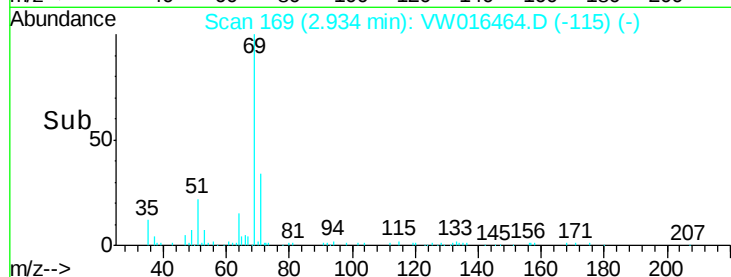
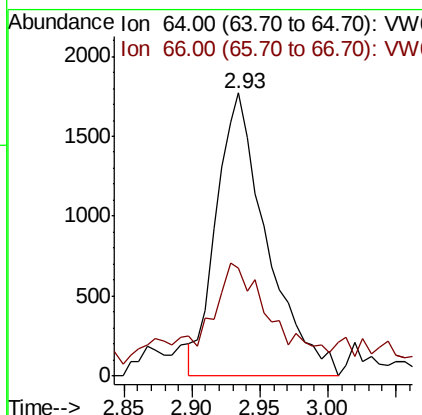
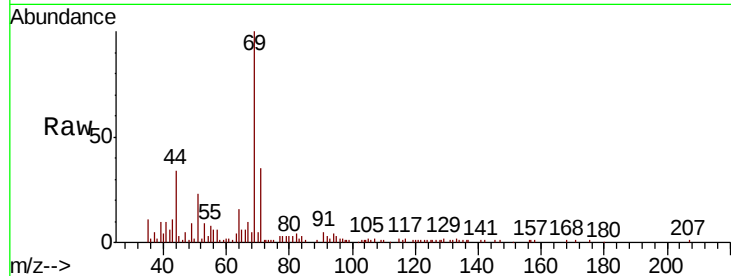




#8  
Chloroethane  
Concen: 0.809 ug/L  
RT: 2.93 min Scan# 169  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

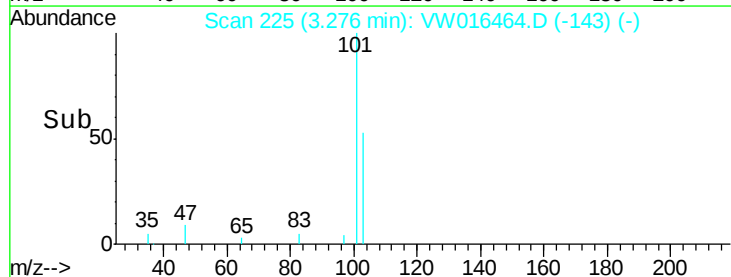
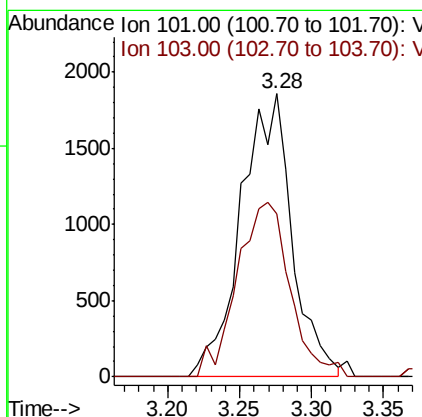
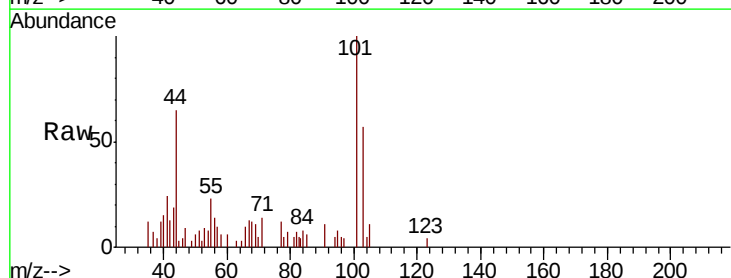
Instrument :  
MSVOA\_W  
ClientSampled :

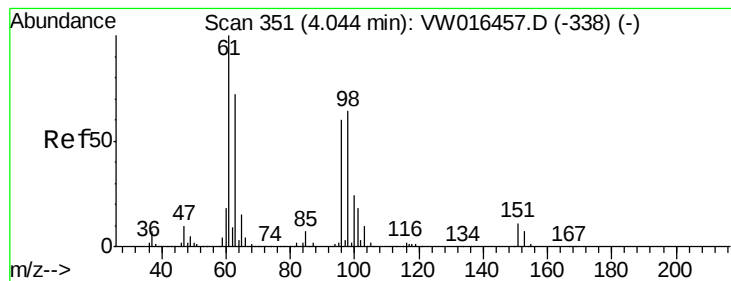
Tot Ion: 64 Resp: 4564  
Ion Ratio Lower Upper  
64 100  
66 38.4 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 0.608 ug/L  
RT: 3.28 min Scan# 225  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Tgt Ion: 101 Resp: 4562  
Ion Ratio Lower Upper  
101 100  
103 63.5 45.1 83.7





#12

1,1-Dichloroethene

Concen: 0.953 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :  
MSVOA\_W  
ClientSampled :

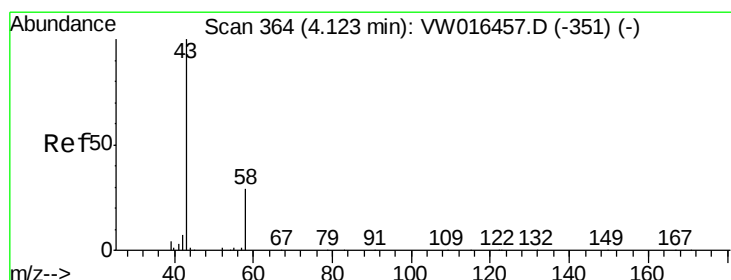
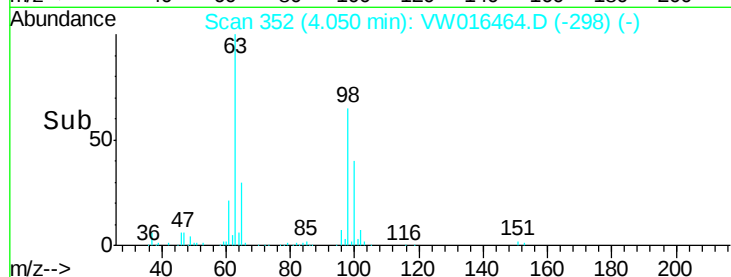
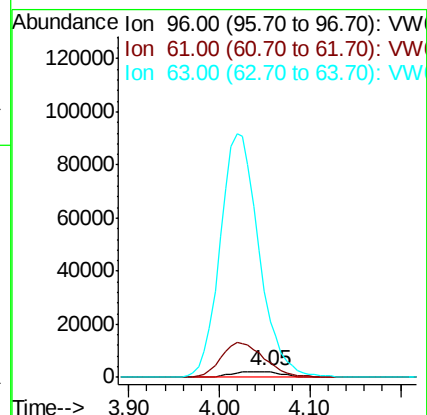
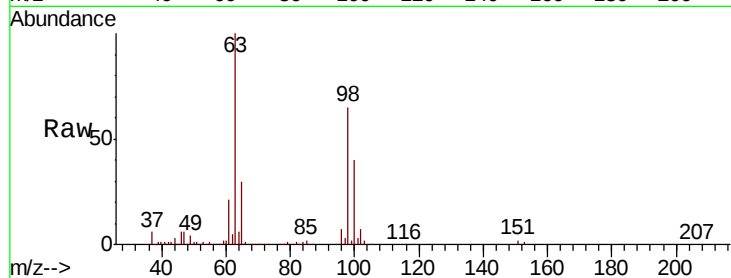
Tot Ion: 96 Resp: 8606

Ion Ratio Lower Upper

96 100

61 292.2 116.5 216.3#

63 1403.0 81.1 150.5#



#13

Acetone

Concen: 2.544 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW016464.D

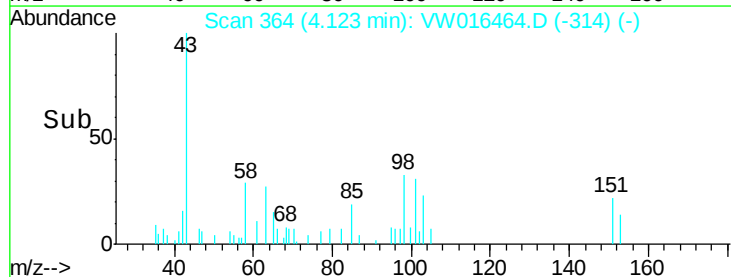
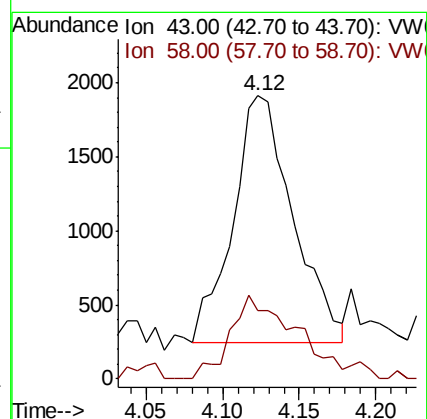
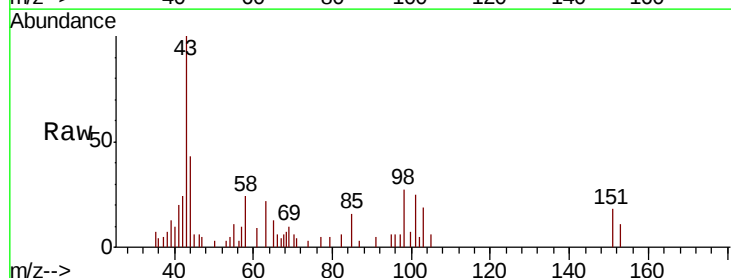
Acq: 04 Sep 2020 15:12

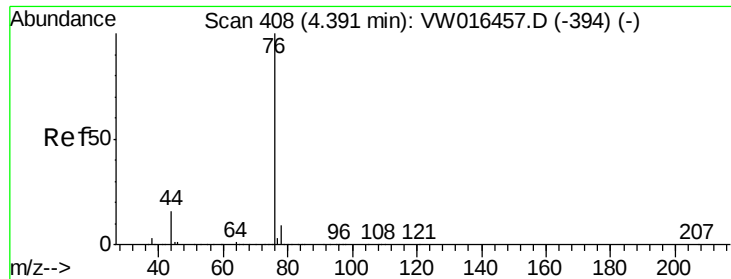
Tgt Ion: 43 Resp: 4533

Ion Ratio Lower Upper

43 100

58 18.6 0.0 63.0





#14

Carbon disulfide

Concen: 0.651 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

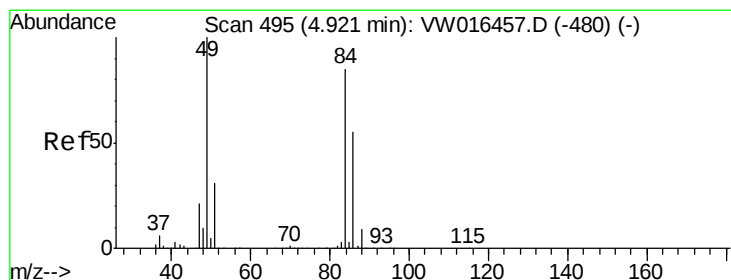
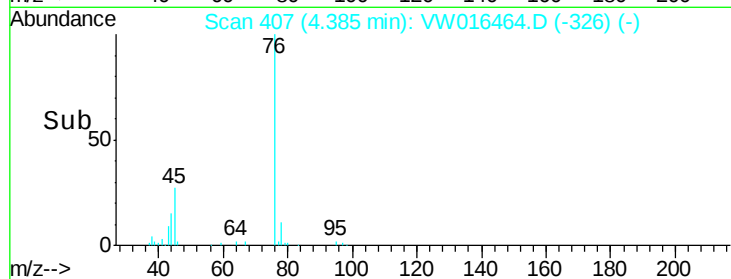
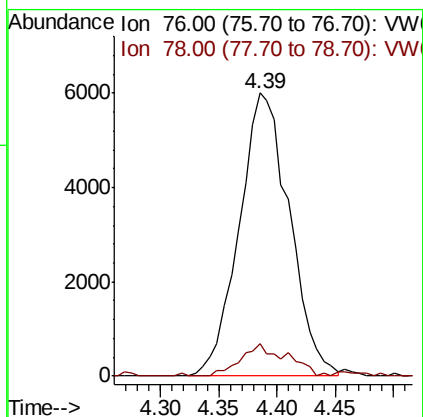
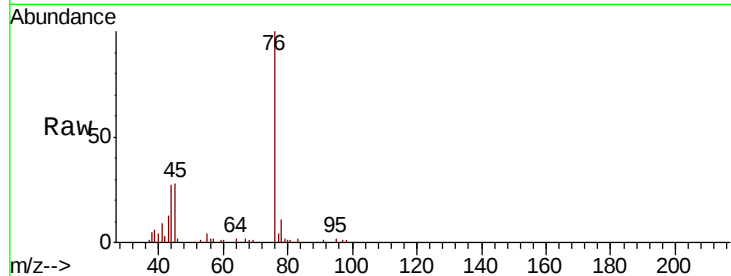
ClientSampleId :

Tot Ion: 76 Resp: 17965

Ion Ratio Lower Upper

76 100

78 11.4 7.3 10.9#



#16

Methylene chloride

Concen: 1.867 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

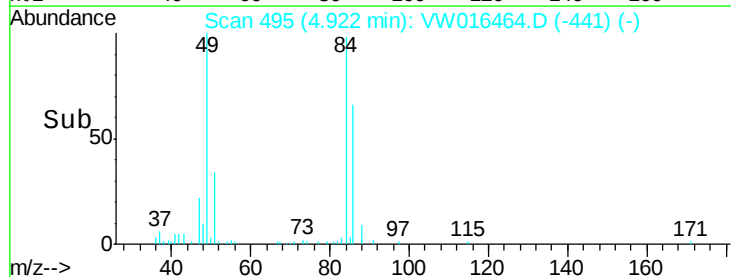
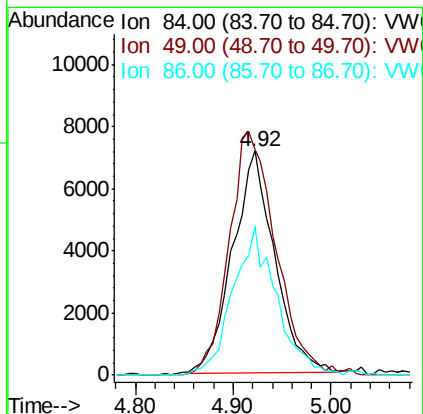
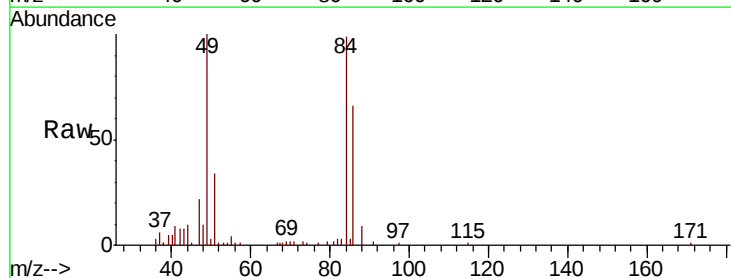
Tgt Ion: 84 Resp: 21341

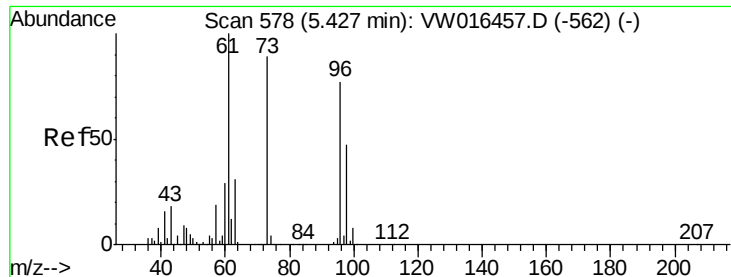
Ion Ratio Lower Upper

84 100

49 101.0 86.7 160.9

86 66.1 44.9 83.5

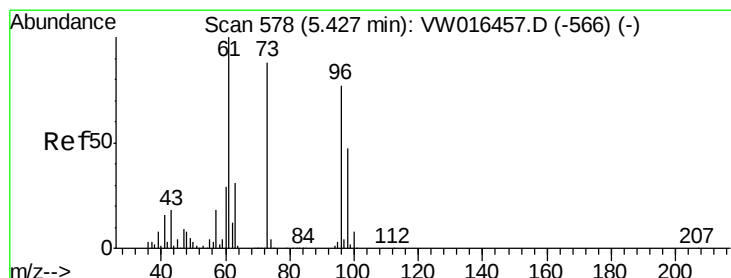
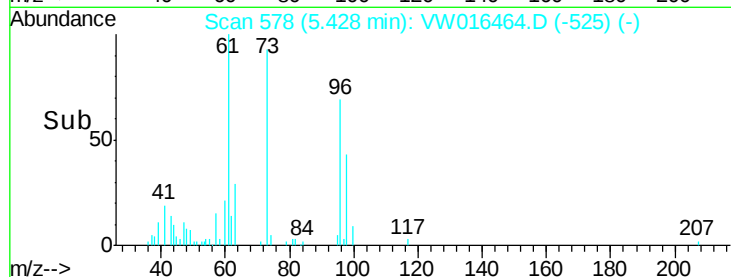
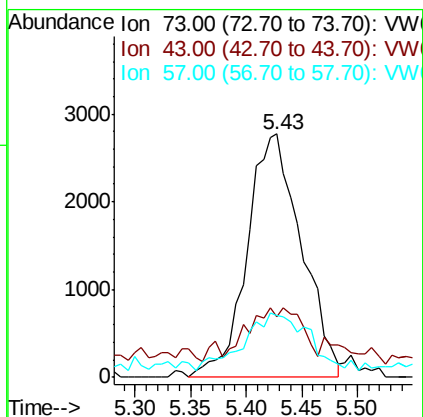
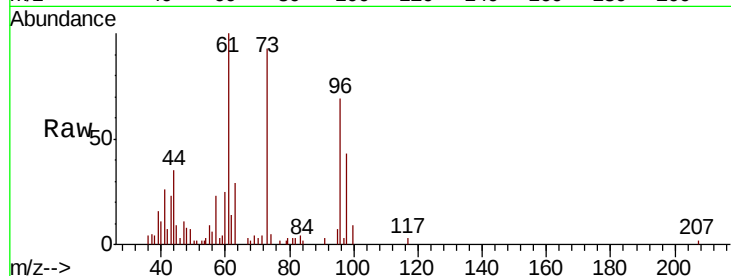




#17  
Methvl tert-butvl Ether  
Concen: 0.697 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

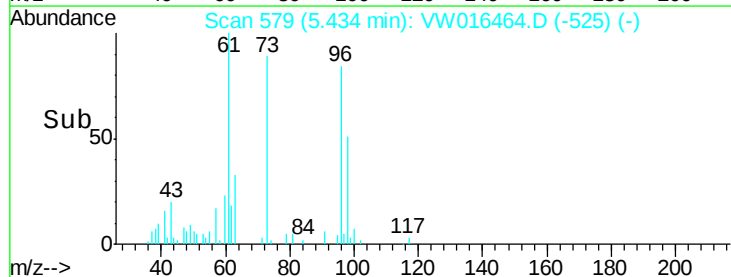
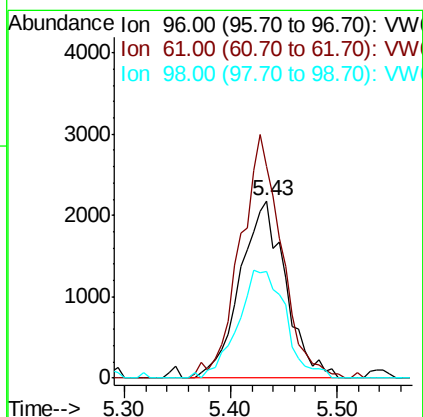
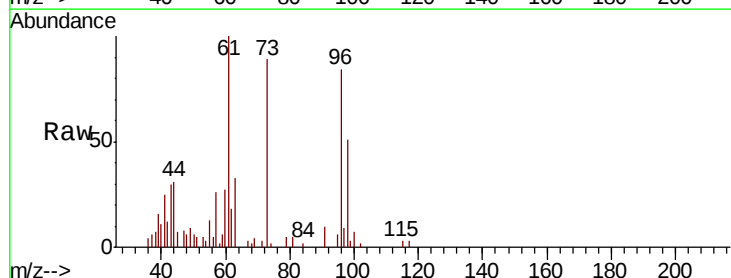
Instrument :  
MSVOA\_W  
ClientSampleId :

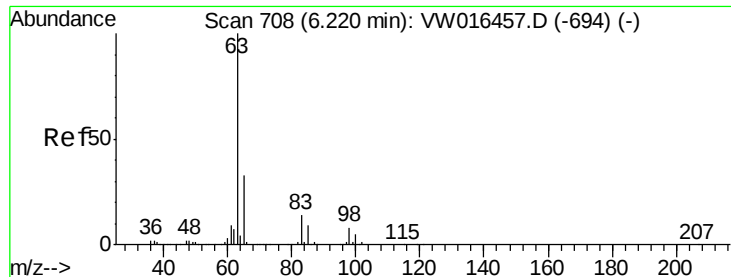
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 11.1  | 17.9  | 26.9# |
| 57      | 3.1   | 17.4  | 26.0# |



#18  
trans-1,2-Dichloroethene  
Concen: 0.681 ug/L  
RT: 5.43 min Scan# 579  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 119.3 | 96.4  | 179.0 |
| 98      | 60.4  | 45.1  | 83.7  |





#19

1,1-Dichloroethane

Concen: 0.592 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW016464.D

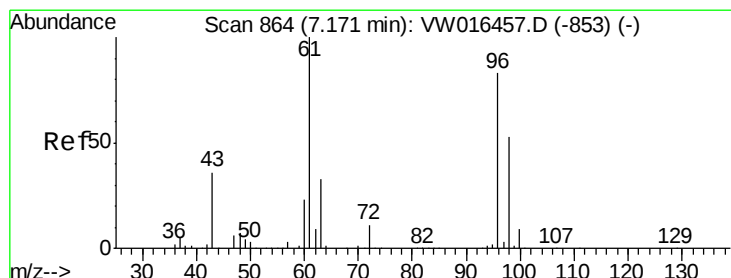
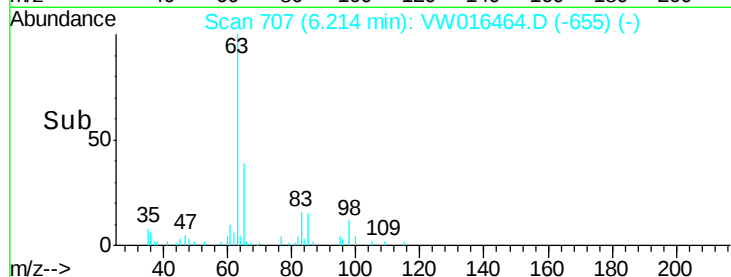
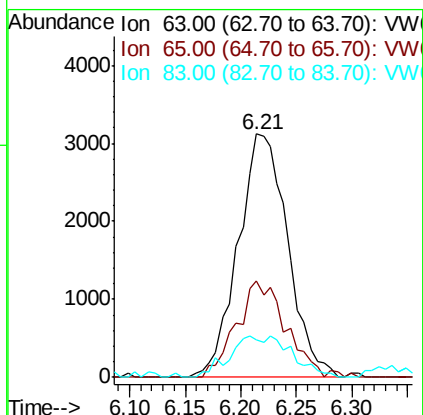
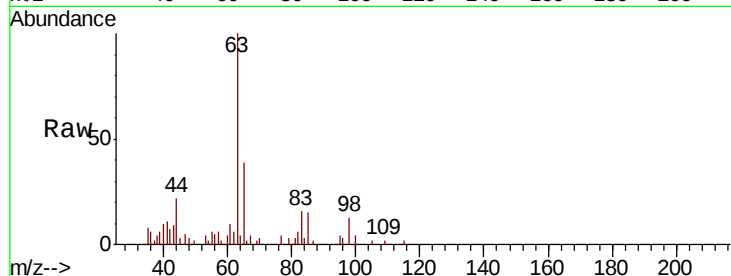
Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 9659  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 39.5  | 23.3  | 43.3  |
| 83       | 15.6  | 10.3  | 19.1  |



#22

cis-1,2-Dichloroethene

Concen: 0.660 ug/L

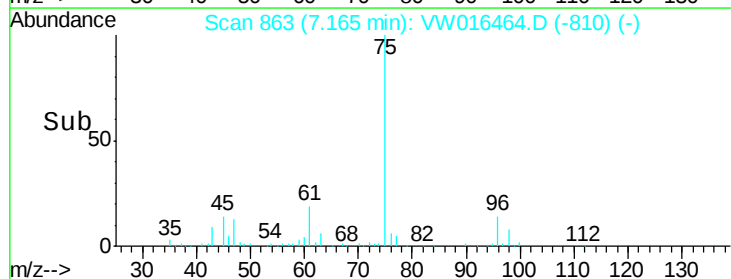
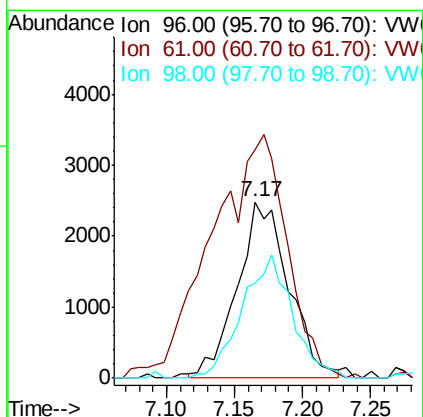
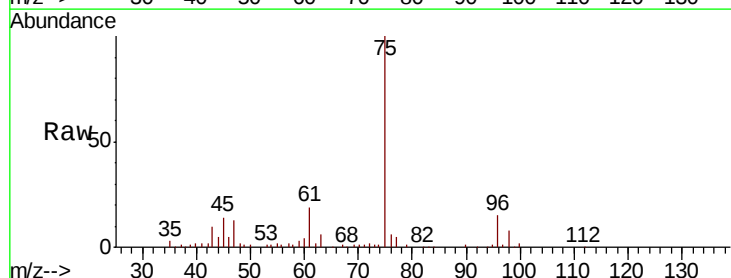
RT: 7.17 min Scan# 863

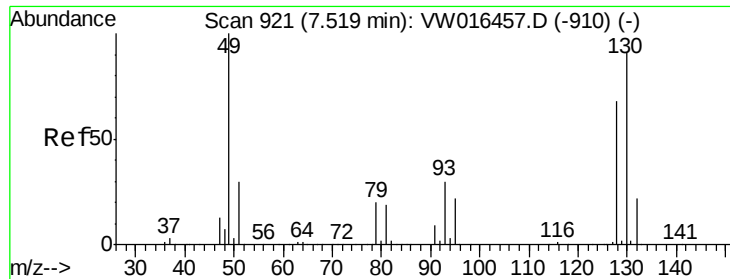
Delta R.T. -0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 6598  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 129.3 | 86.1  | 159.9 |
| 98       | 53.9  | 44.1  | 81.9  |

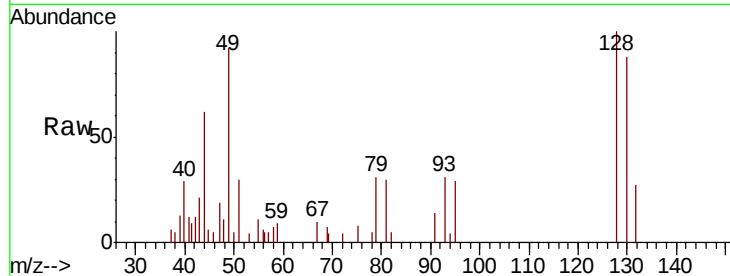




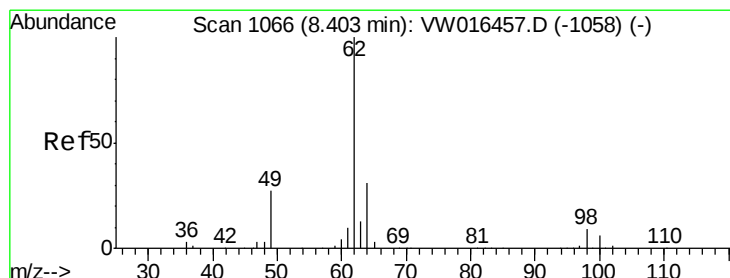
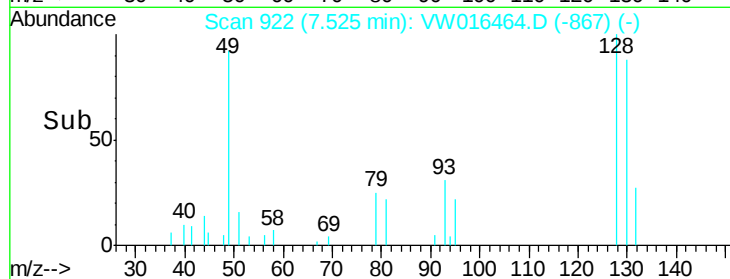
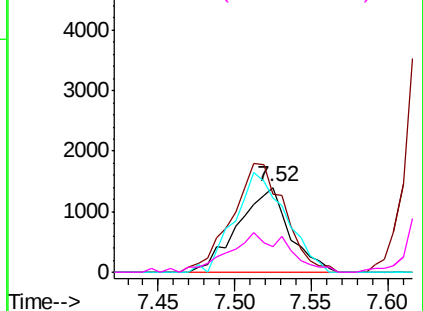
#23  
Bromochloromethane  
Concen: 0.709 ug/L  
RT: 7.52 min Scan# 922  
Delta R.T. 0.01 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:128 Resp: 3284  
Ion Ratio Lower Upper  
128 100  
49 92.2 111.6 207.4#  
130 87.9 90.9 168.7#  
51 30.0 38.5 57.7#

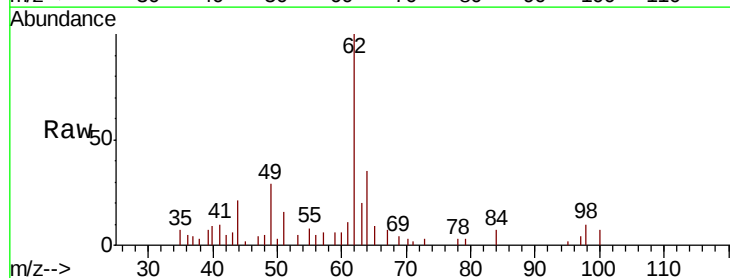


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VW  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VW

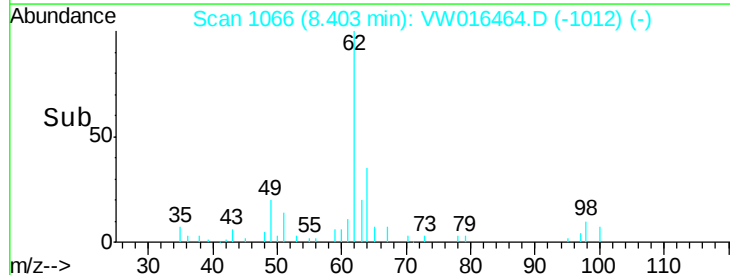
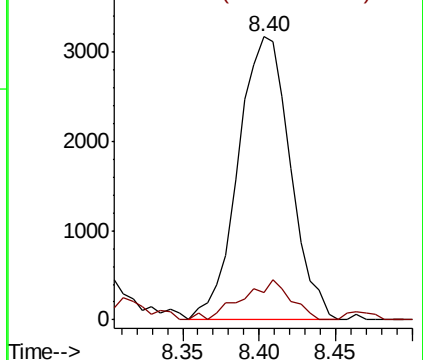


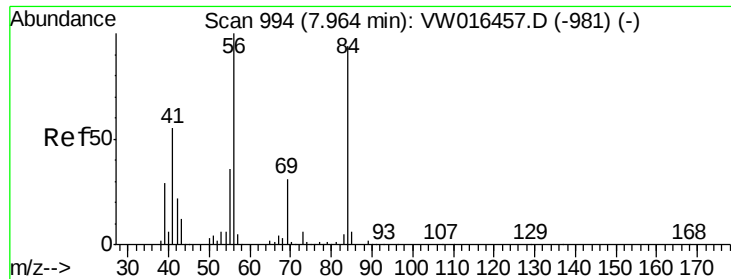
#27  
1,2-Dichloroethane  
Concen: 0.667 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Tgt Ion: 62 Resp: 7505  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VW  
Ion 98.00 (97.70 to 98.70): VW

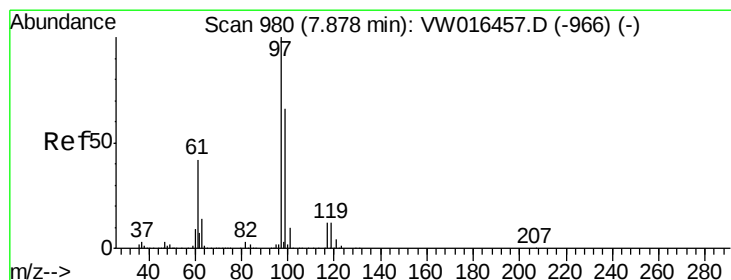
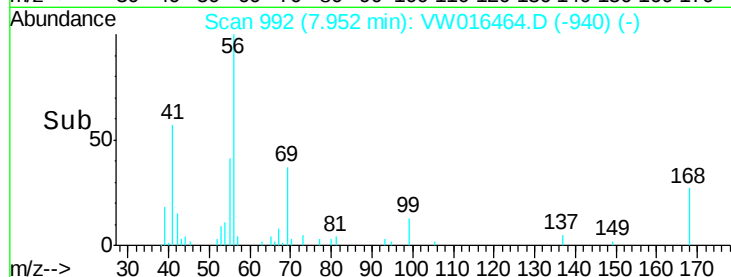
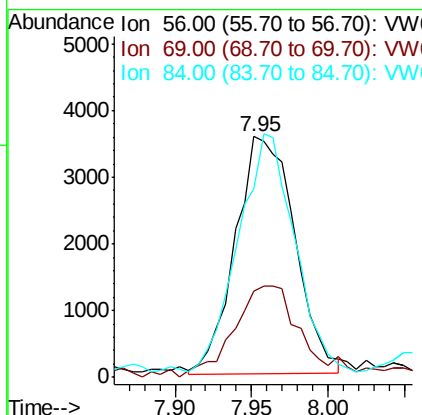
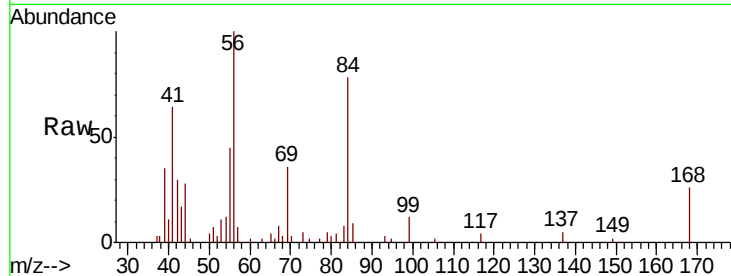




#30  
Cyclohexane  
Concen: 0.619 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

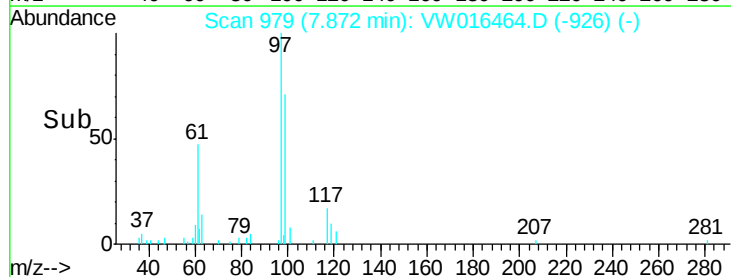
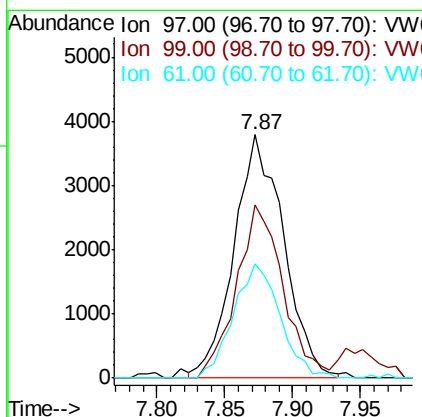
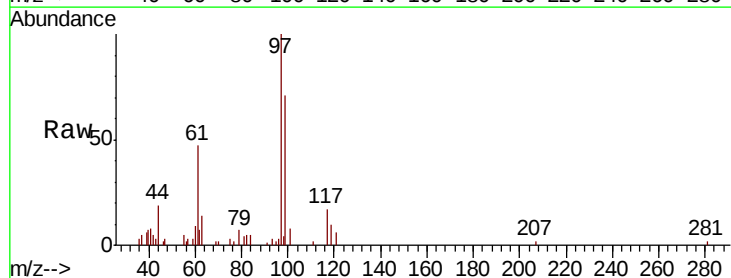
Instrument :  
MSVOA\_W  
ClientSampleId :

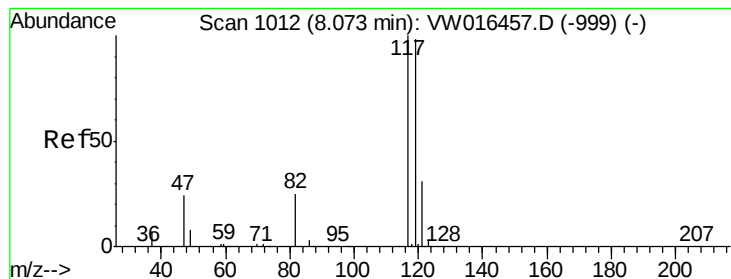
Tot Ion: 56 Resp: 9650  
Ion Ratio Lower Upper  
56 100  
69 40.8 25.3 37.9#  
84 94.5 71.6 107.4



#31  
1,1,1-Trichloroethane  
Concen: 0.682 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. -0.01 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Tgt Ion: 97 Resp: 9642  
Ion Ratio Lower Upper  
97 100  
99 67.0 52.2 78.2  
61 43.9 36.3 54.5





#32

Carbon tetrachloride

Concen: 0.682 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

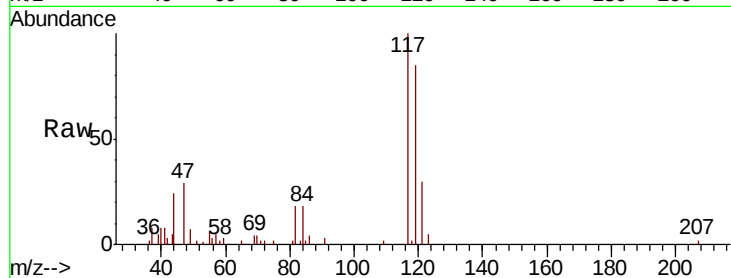
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 9228

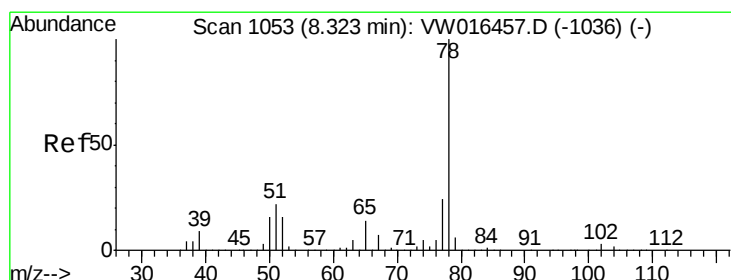
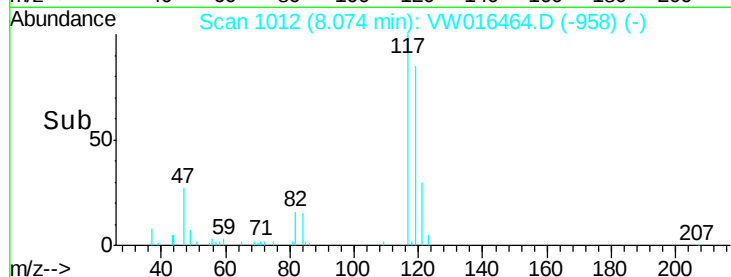
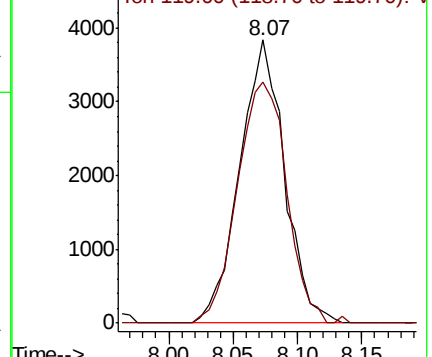
Ion Ratio Lower Upper

117 100

119 93.9 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 0.668 ug/L

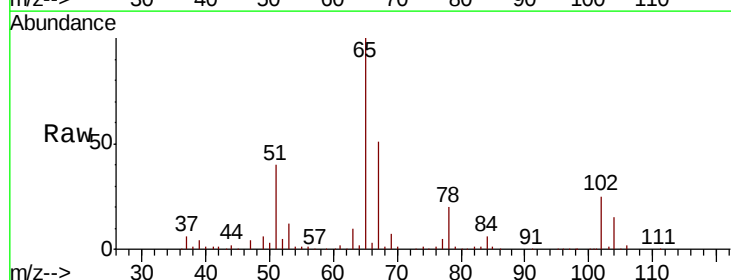
RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

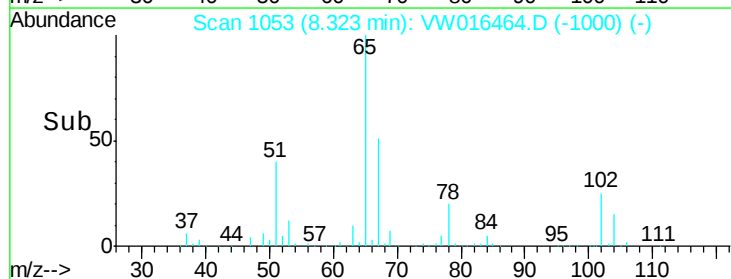
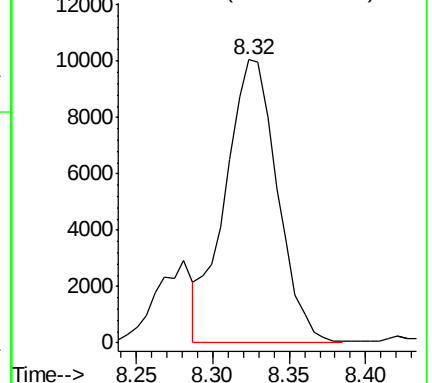
Lab File: VW016464.D

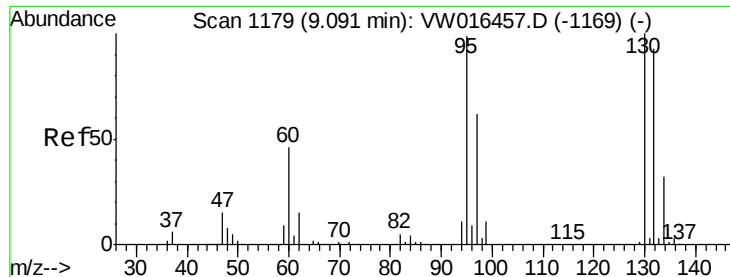
Acq: 04 Sep 2020 15:12

Tgt Ion: 78 Resp: 23842



Abundance Ion 78.00 (77.70 to 78.70): VW

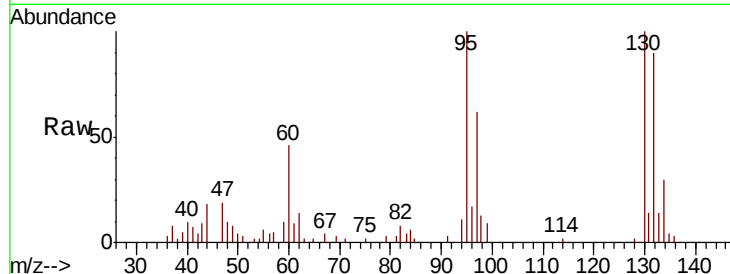




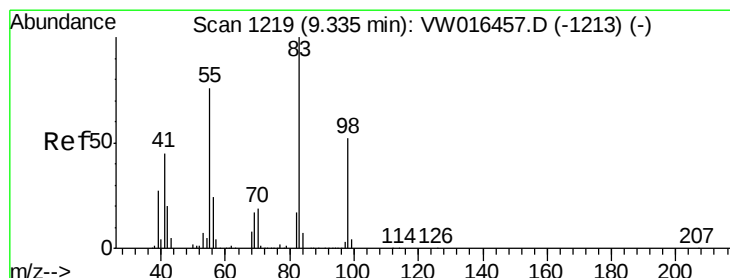
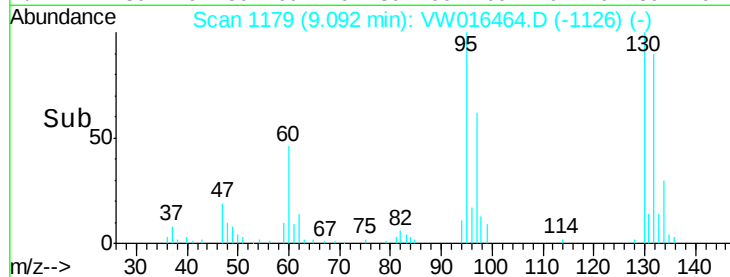
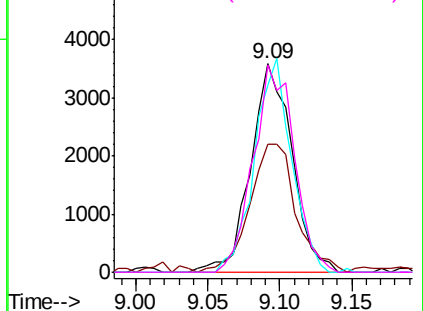
#35  
 Trichloroethene  
 Concen: 0.723 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 7154  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 68.5  | 44.9  | 83.5  |
| 132      | 91.6  | 69.2  | 128.4 |
| 130      | 98.4  | 72.0  | 133.6 |

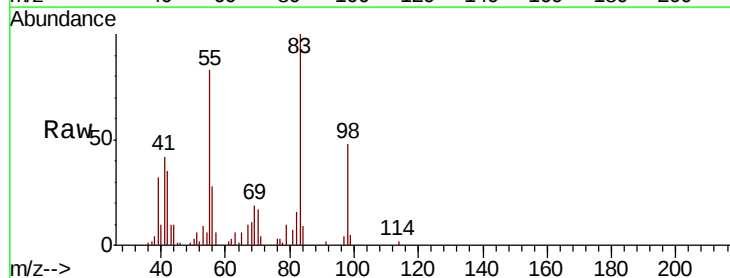


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

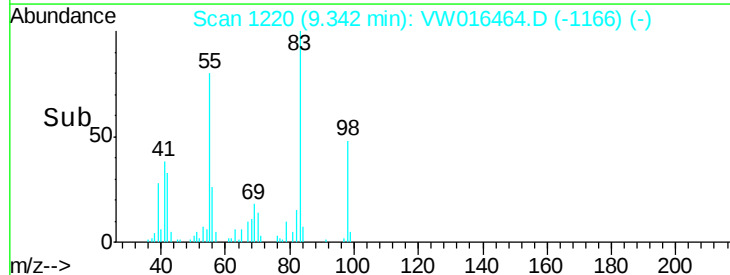
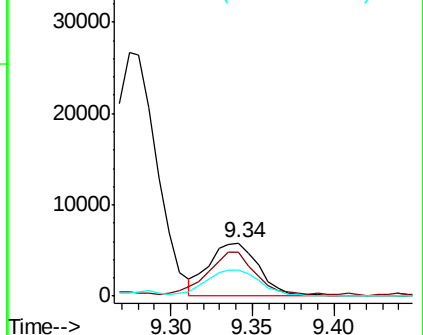


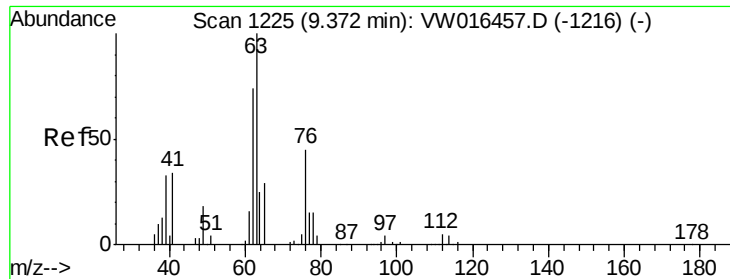
#36  
 Methylcyclohexane  
 Concen: 0.720 ug/L  
 RT: 9.34 min Scan# 1220  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 12469 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 75.3  | 60.9  | 91.3  |
| 98       | 52.4  | 40.0  | 60.0  |



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

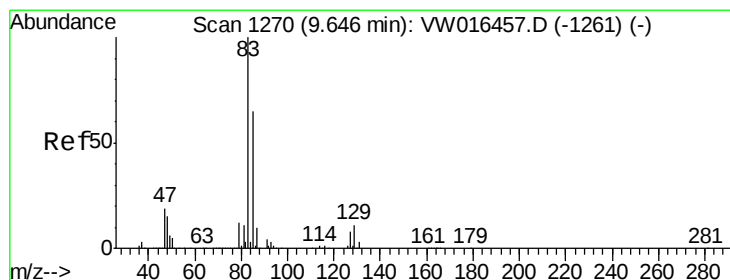
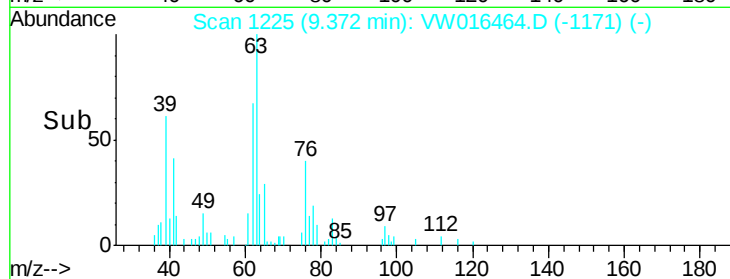
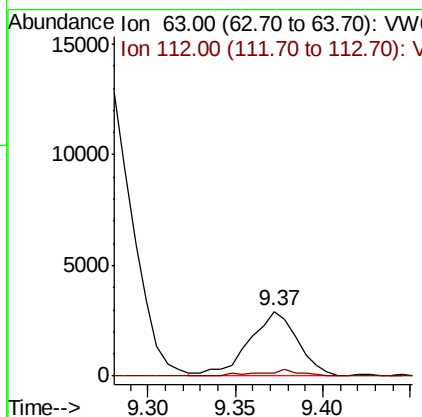
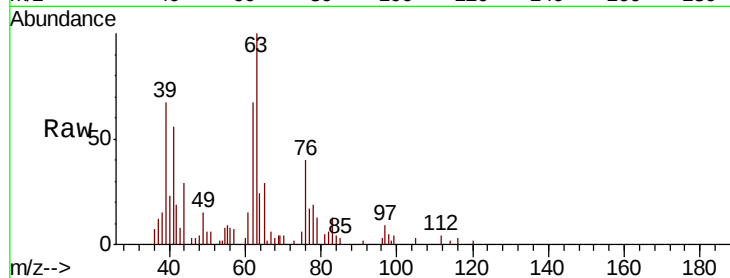




#40  
 1,2-Dichloropropane  
 Concen: 0.638 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

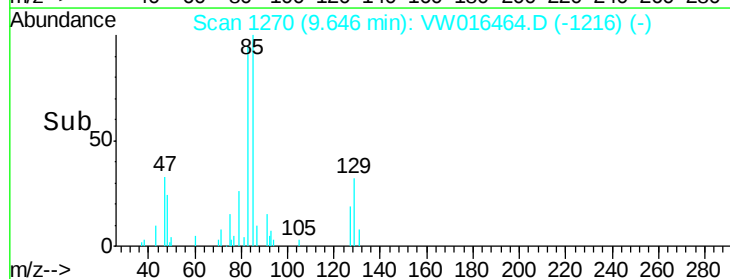
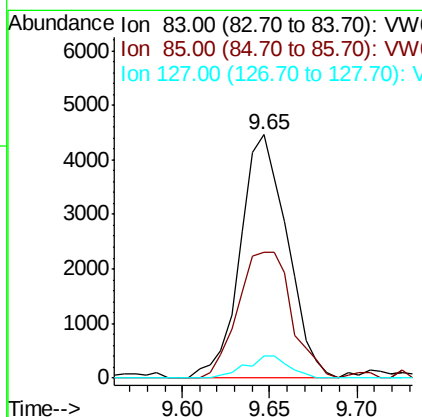
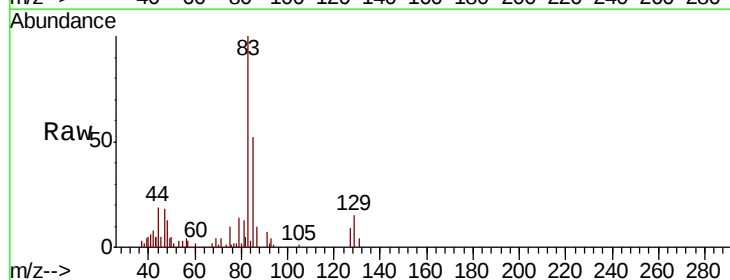
Instrument :  
 MSVOA\_W  
 ClientSampled :

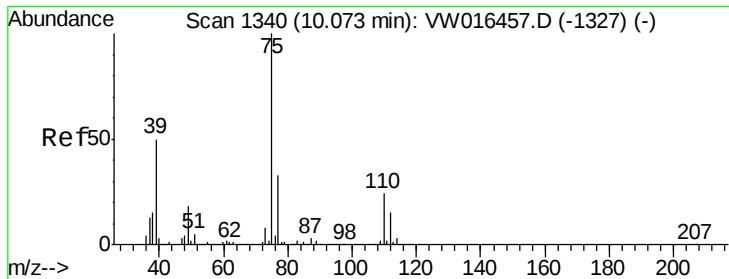
Tot Ion: 63 Resp: 5633  
 Ion Ratio Lower Upper  
 63 100  
 112 4.8 3.8 5.8



#41  
 Bromodichloromethane  
 Concen: 0.677 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

Tgt Ion: 83 Resp: 8353  
 Ion Ratio Lower Upper  
 83 100  
 85 51.8 43.5 80.7  
 127 9.0 6.7 10.1





#42

cis-1,3-Dichloropropene

Concen: 0.599 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

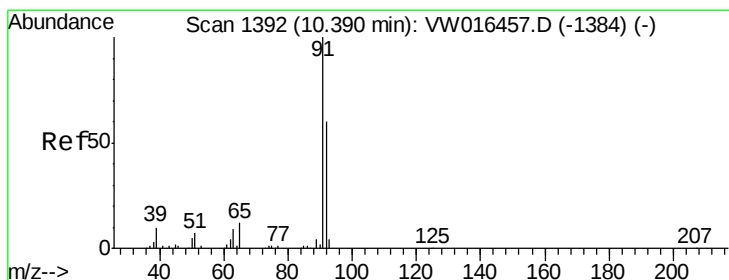
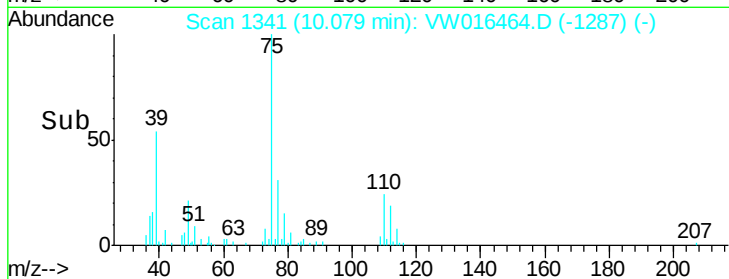
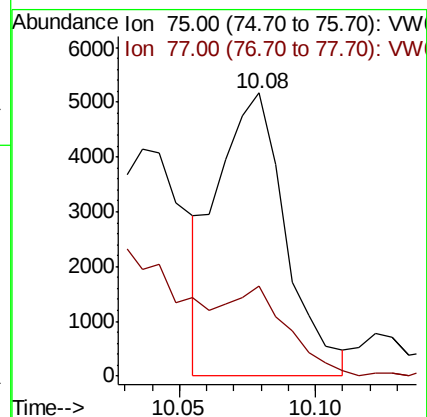
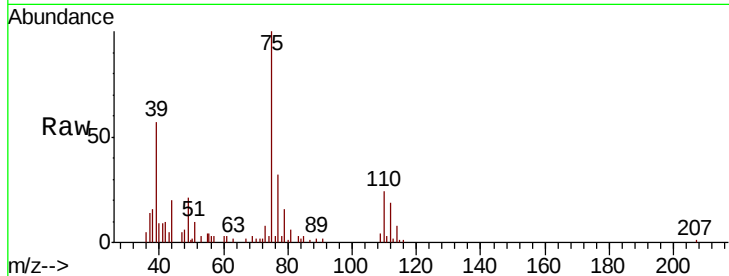
ClientSampleId :

Tot Ion: 75 Resp: 8973

Ion Ratio Lower Upper

75 100

77 31.9 20.9 38.7



#44

Toluene

Concen: 0.677 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016464.D

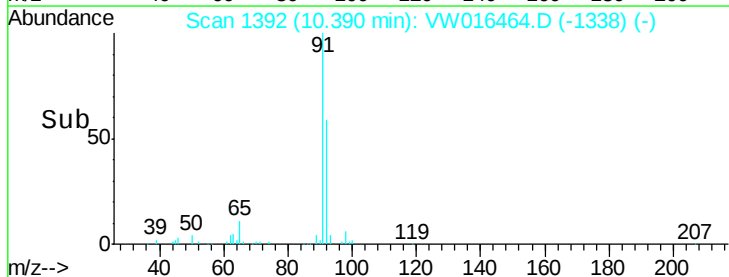
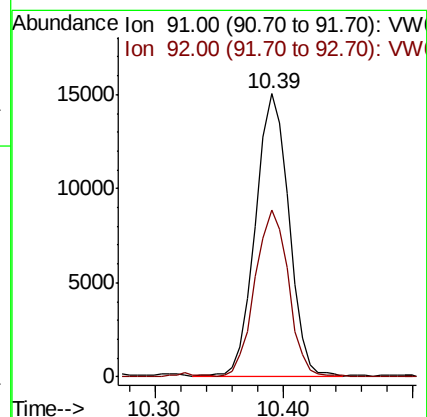
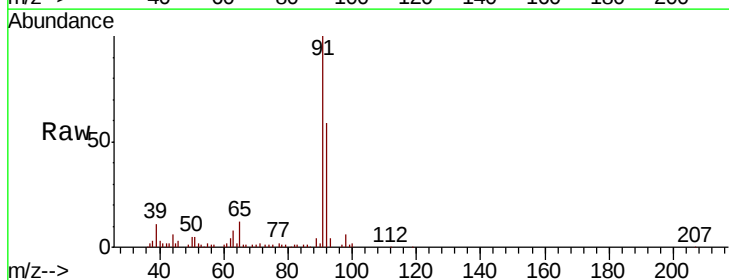
Acq: 04 Sep 2020 15:12

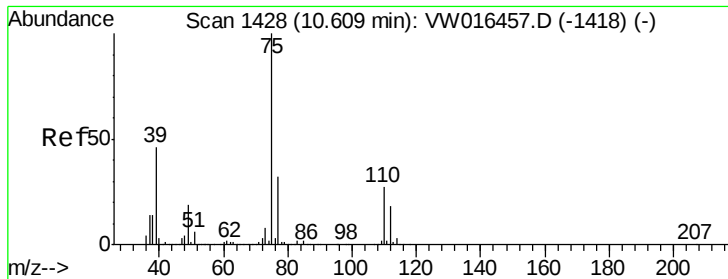
Tgt Ion: 91 Resp: 27068

Ion Ratio Lower Upper

91 100

92 58.9 39.5 73.4





#45

trans-1,3-Dichloropropene

Concen: 0.598 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

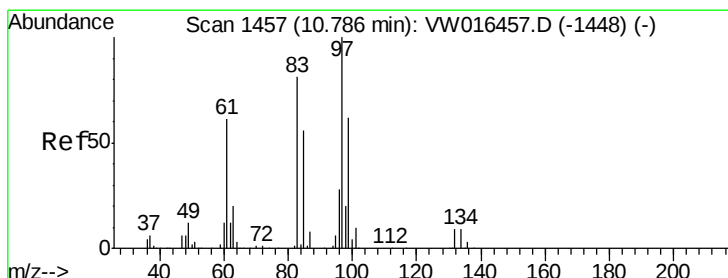
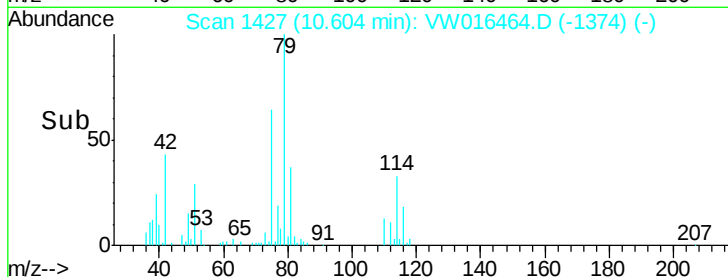
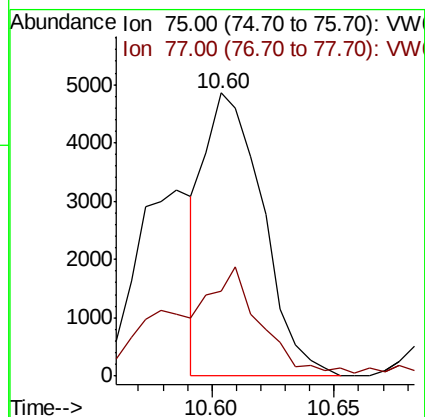
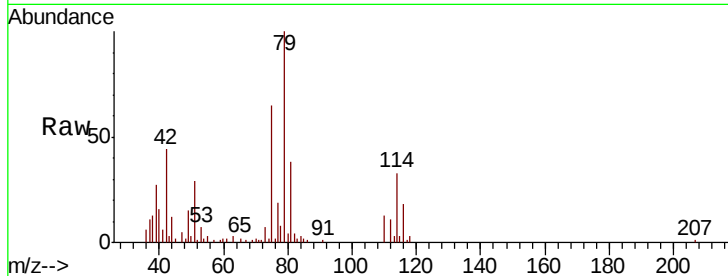
ClientSampled :

Tot Ion: 75 Resp: 8002

Ion Ratio Lower Upper

75 100

77 29.9 21.9 40.7



#46

1,1,2-Trichloroethane

Concen: 0.683 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Tgt Ion: 97 Resp: 4781

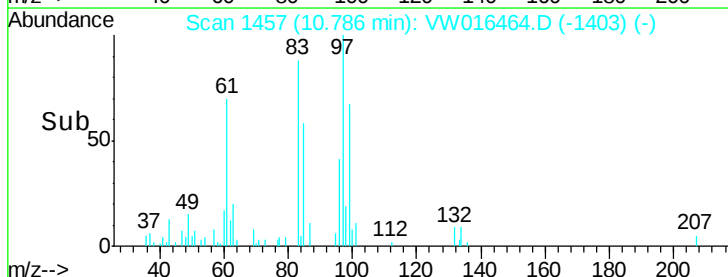
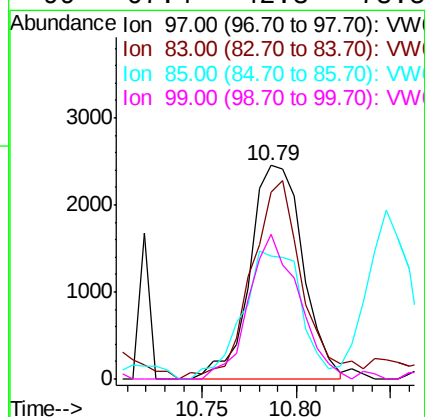
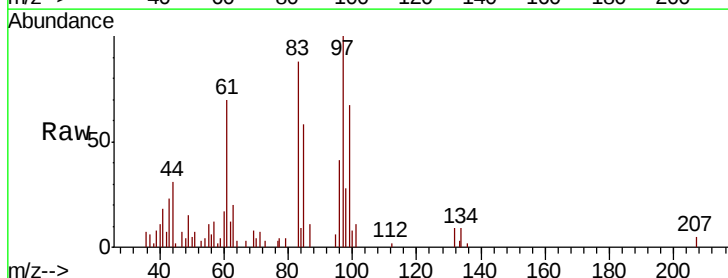
Ion Ratio Lower Upper

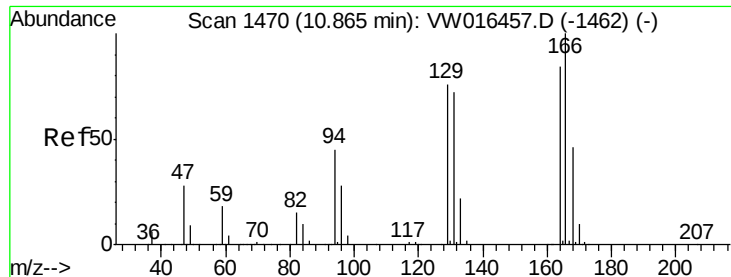
97 100

83 87.8 59.7 110.9

85 57.7 37.6 69.8

99 67.4 42.3 78.5





#47

Tetrachloroethene

Concen: 0.692 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion:164 Resp: 5487

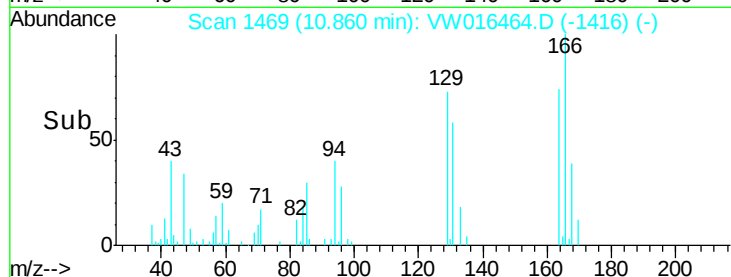
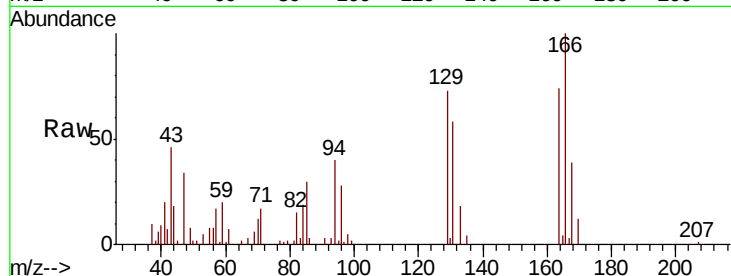
Ion Ratio Lower Upper

164 100

129 98.8 65.7 121.9

131 78.2 61.1 113.5

166 135.9 85.0 157.8

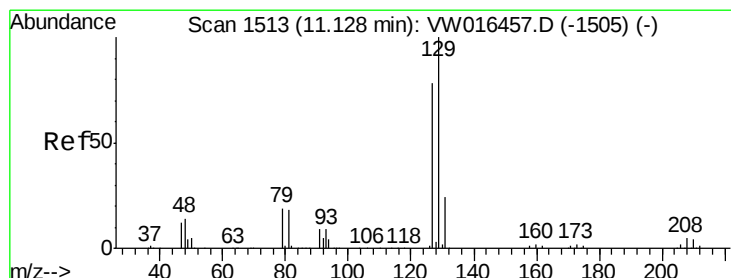
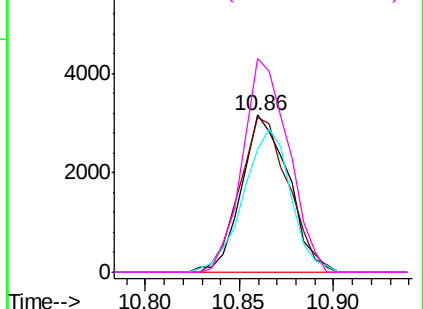


Abundance Ion 164.00 (163.70 to 164.70): V

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



#50

Dibromochloromethane

Concen: 0.633 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VW016464.D

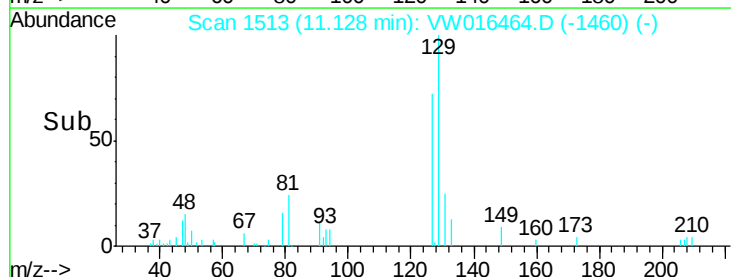
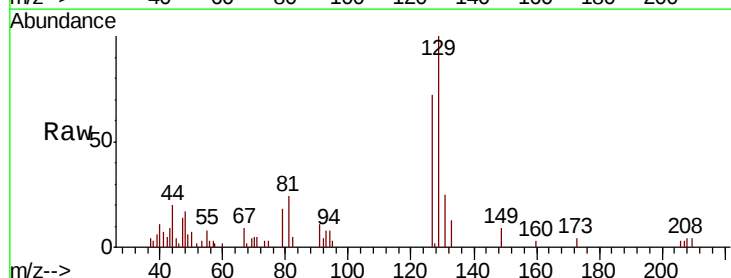
Acq: 04 Sep 2020 15:12

Tgt Ion:129 Resp: 5599

Ion Ratio Lower Upper

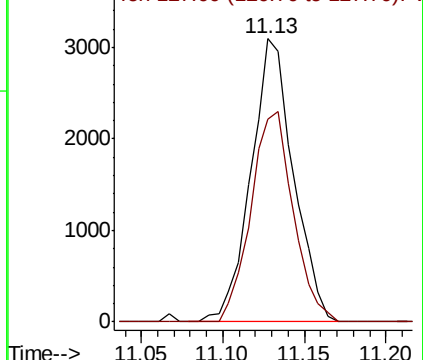
129 100

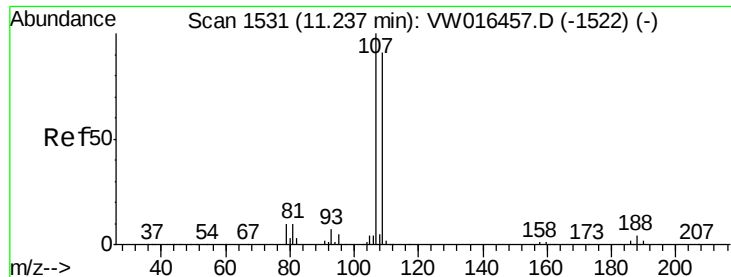
127 73.6 55.4 103.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 0.644 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

ClientSampleId :

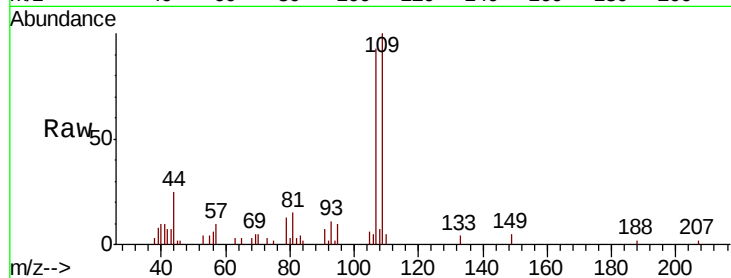
Tot Ion:107 Resp: 4500

Ion Ratio Lower Upper

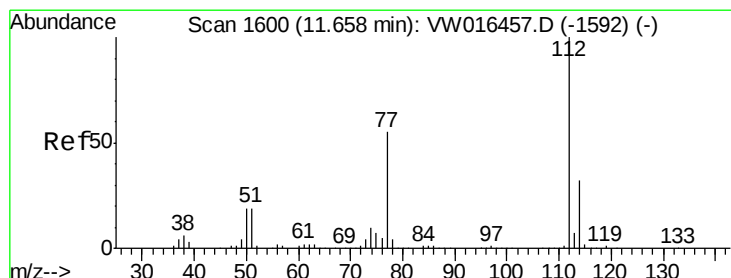
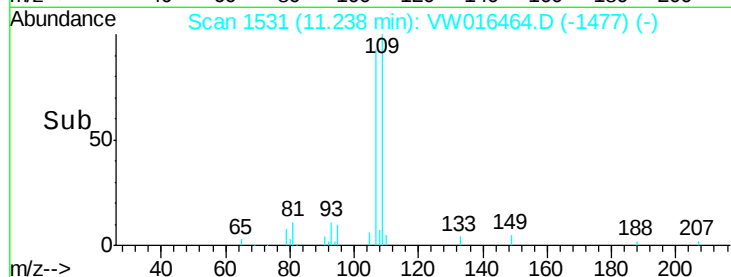
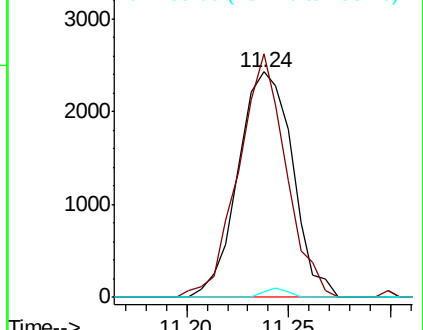
107 100

109 108.1 64.8 120.4

188 2.7 3.4 5.0#



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



#52

Chlorobenzene

Concen: 0.651 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

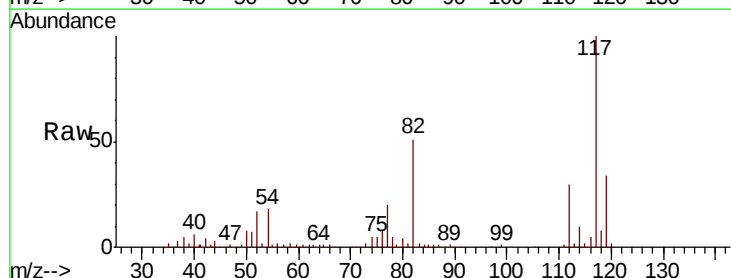
Tgt Ion:112 Resp: 16513

Ion Ratio Lower Upper

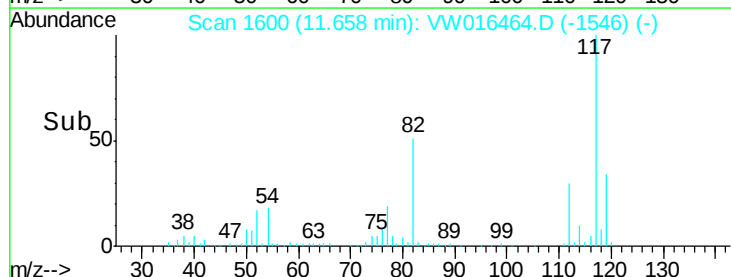
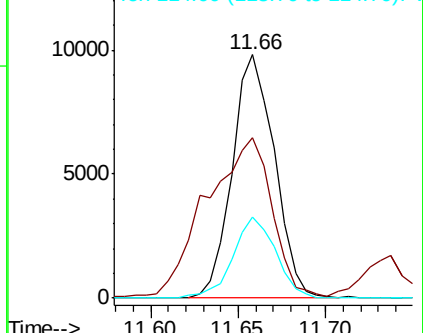
112 100

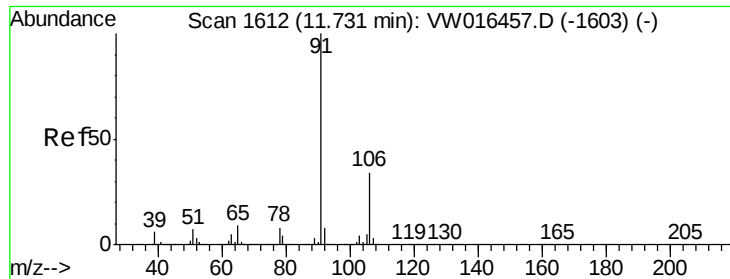
77 65.8 46.2 69.2

114 33.3 21.1 39.3



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 114.00 (113.70 to 114.70): V

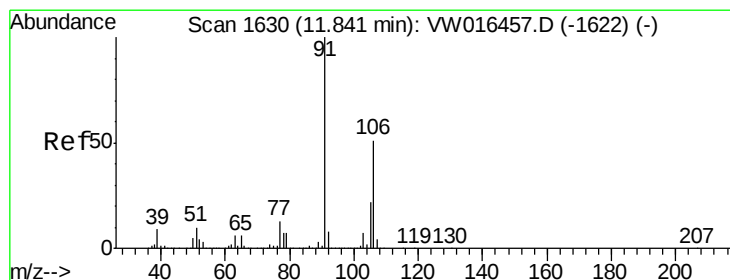
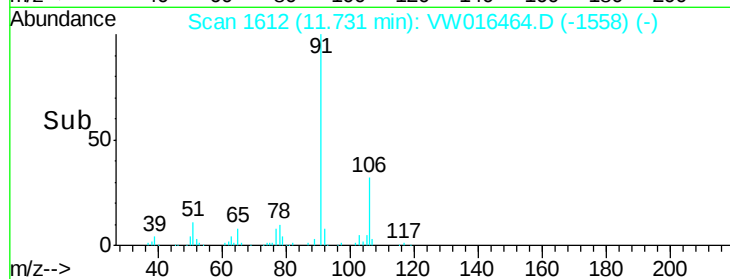
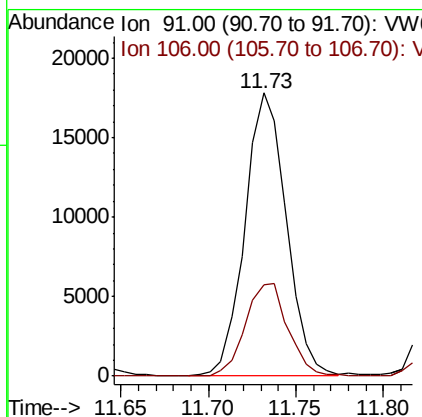
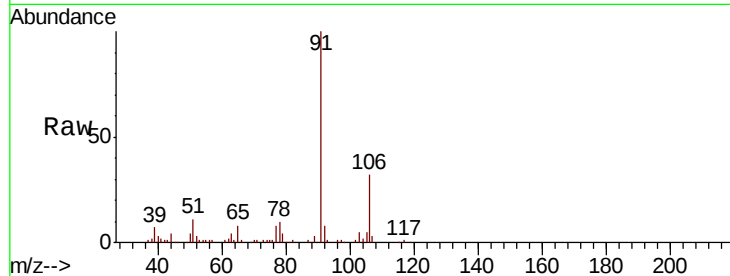




#53  
Ethylbenzene  
Concen: 0.652 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

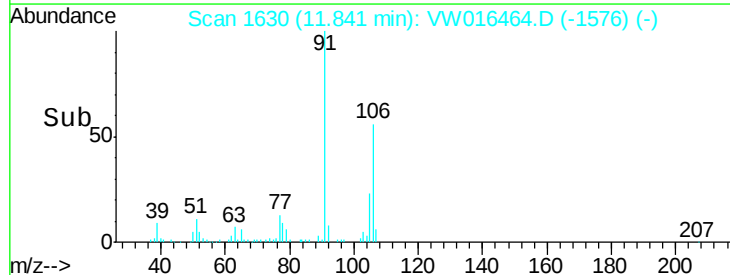
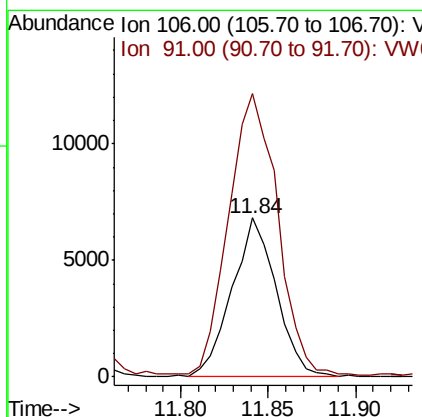
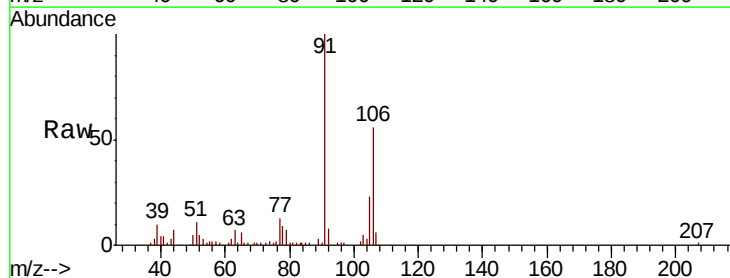
Instrument :  
MSVOA\_W  
ClientSampleId :

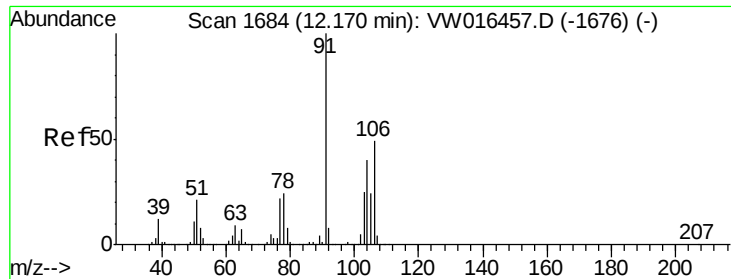
Tot Ion: 91 Resp: 29350  
Ion Ratio Lower Upper  
91 100  
106 32.3 21.6 40.2



#54  
m,p-Xylene  
Concen: 0.698 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Tgt Ion: 106 Resp: 12008  
Ion Ratio Lower Upper  
106 100  
91 178.2 142.3 264.3

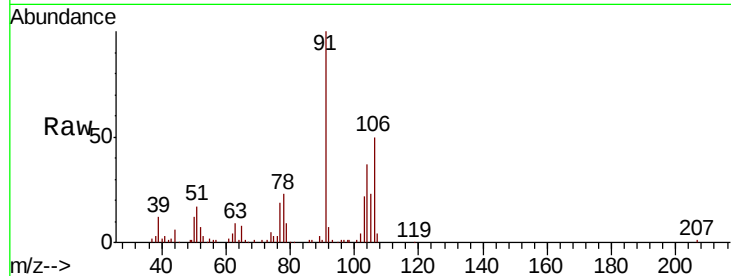




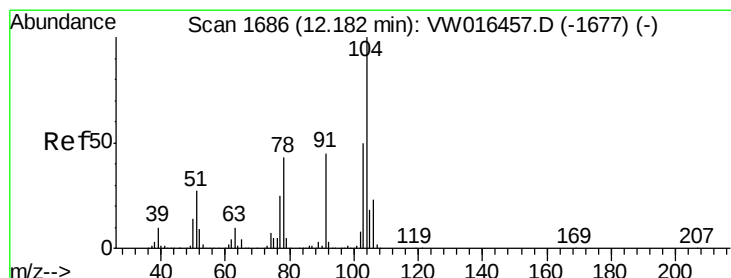
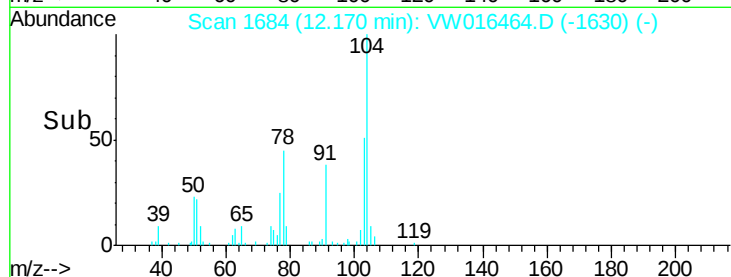
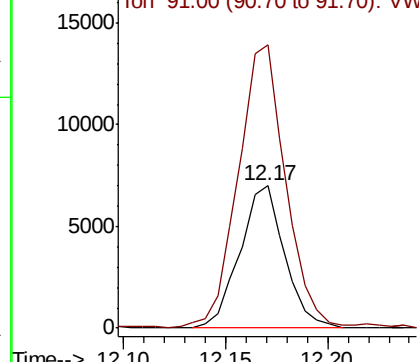
#55  
o-xylene  
Concen: 0.651 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:106 Resp: 10666  
Ion Ratio Lower Upper  
106 100  
91 199.0 144.3 267.9

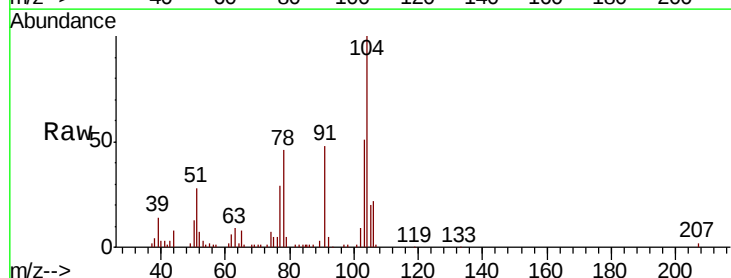


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

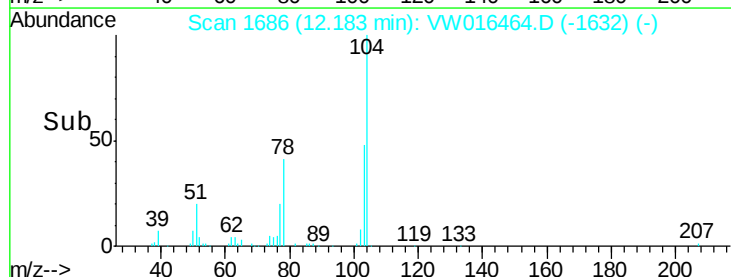
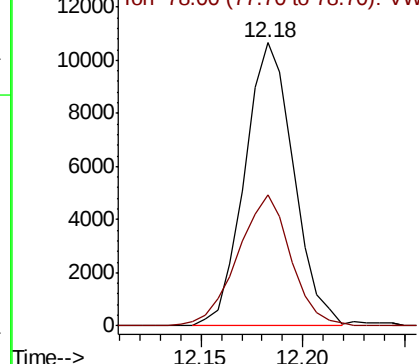


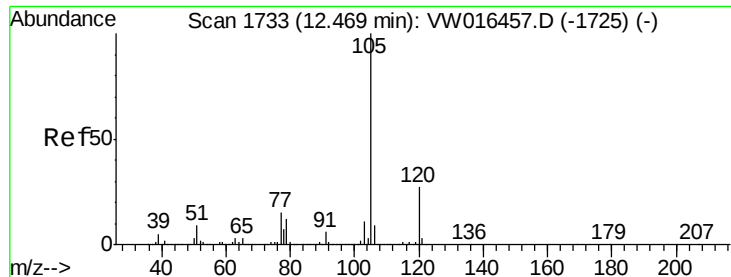
#56  
Styrene  
Concen: 0.632 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW016464.D  
Acq: 04 Sep 2020 15:12

Tgt Ion:104 Resp: 17799  
Ion Ratio Lower Upper  
104 100  
78 46.1 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 0.715 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

ClientSampled :

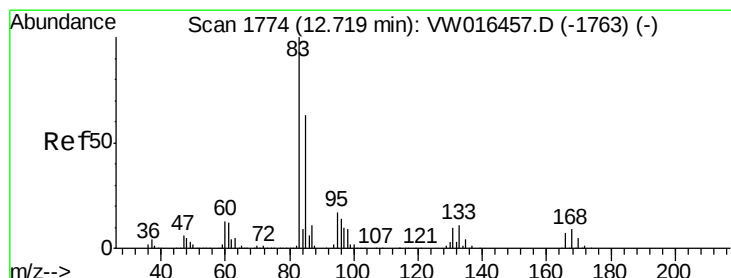
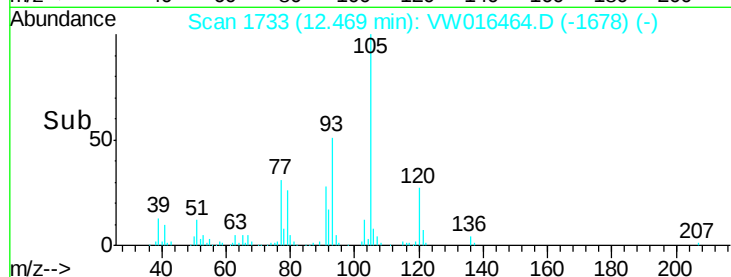
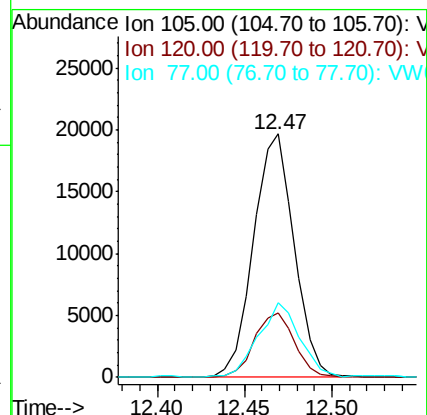
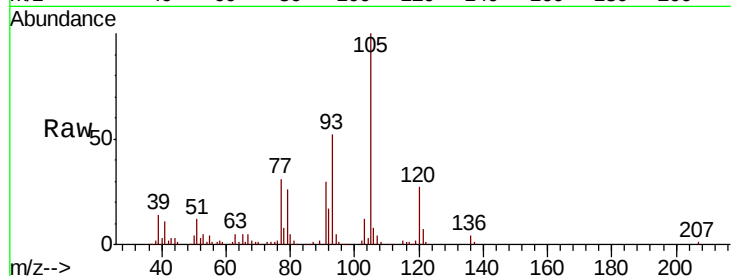
Tot Ion:105 Resp: 32070

Ion Ratio Lower Upper

105 100

120 26.3 21.9 32.9

77 31.4 13.0 19.6#



#58

1,1,2,2-Tetrachloroethane

Concen: 0.827 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

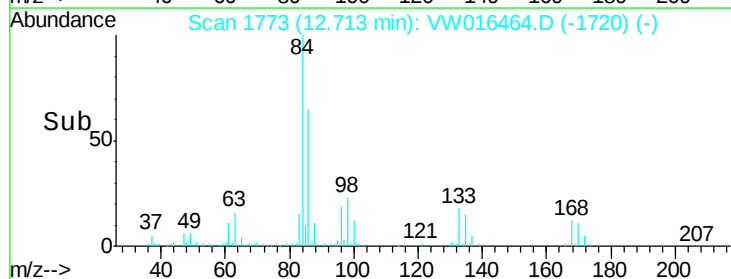
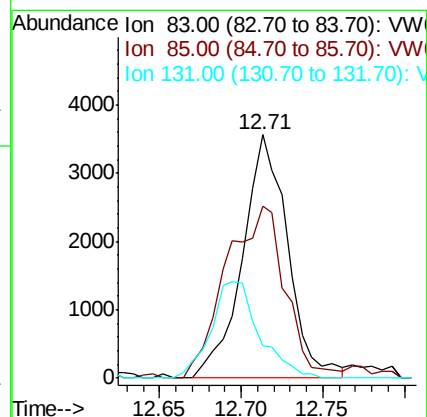
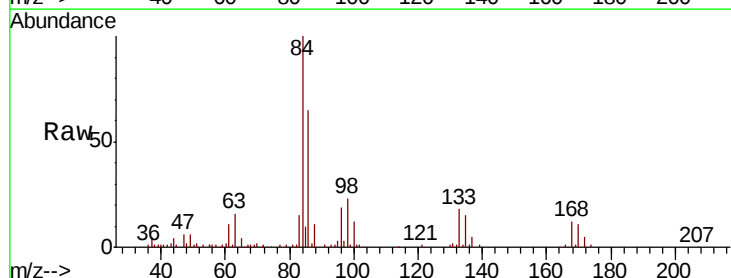
Tgt Ion: 83 Resp: 6896

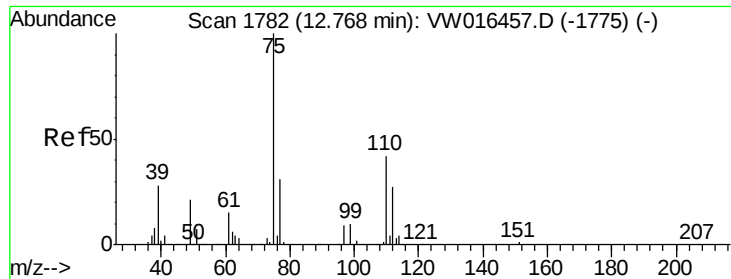
Ion Ratio Lower Upper

83 100

85 70.8 45.3 84.1

131 13.2 8.7 13.1#





#59

1,2,3-Trichloropropane

Concen: 0.687 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

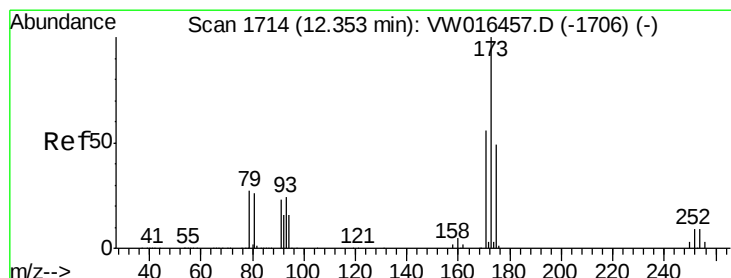
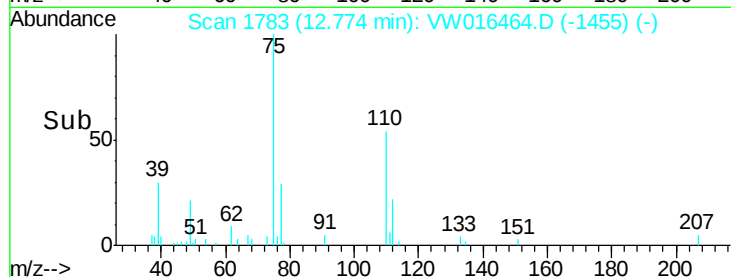
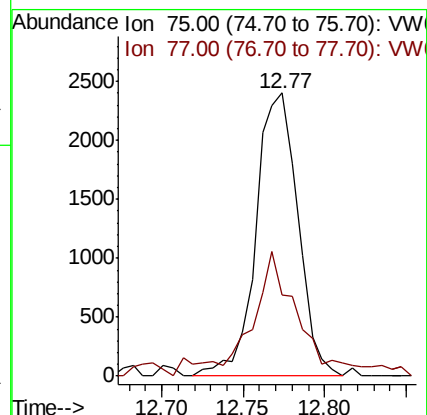
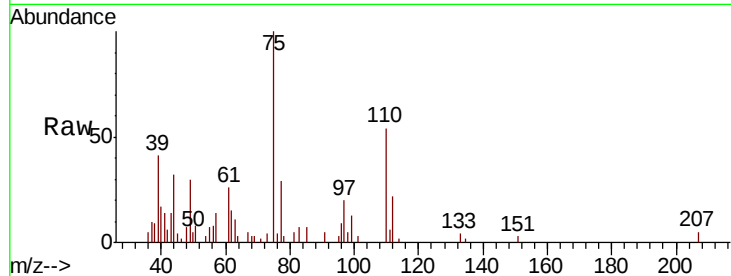
ClientSampled :

Tot Ion: 75 Resp: 4282

Ion Ratio Lower Upper

75 100

77 33.7 26.0 39.0



#62

Bromoform

Concen: 0.621 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

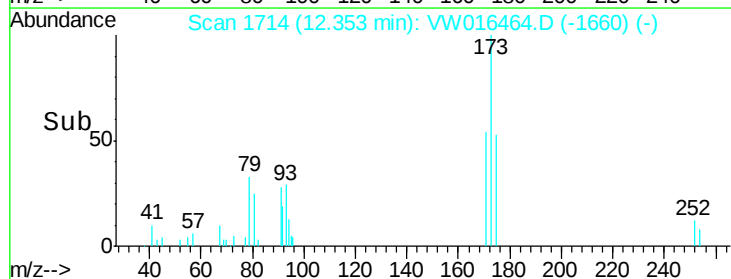
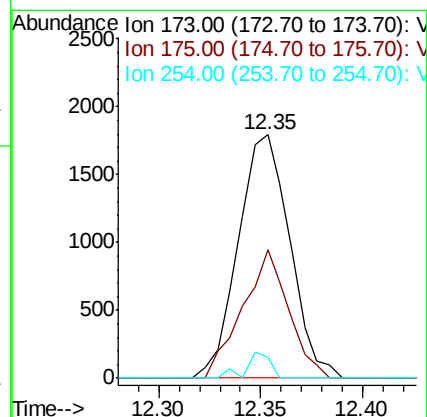
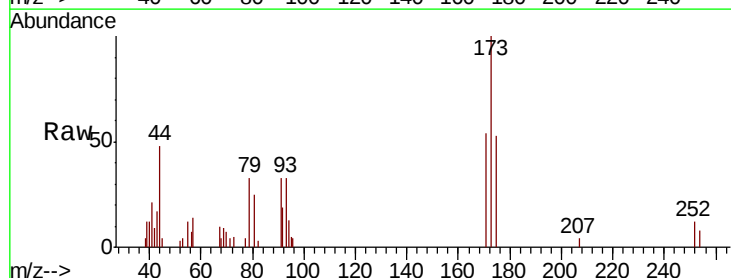
Tgt Ion: 173 Resp: 3141

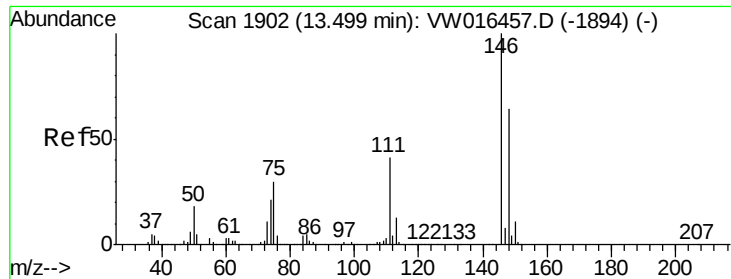
Ion Ratio Lower Upper

173 100

175 47.4 39.2 58.8

254 4.0 5.8 8.6#

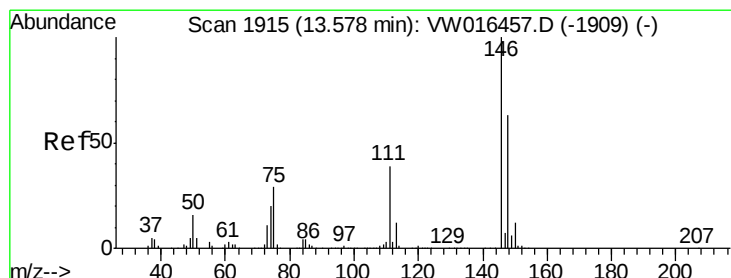
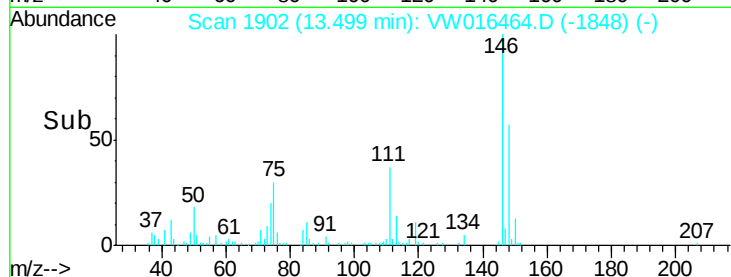
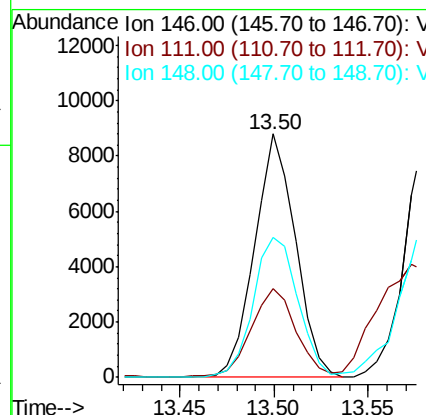
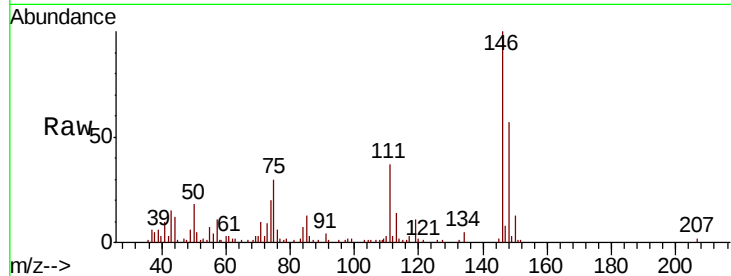




#63  
 1,3-Dichlorobenzene  
 Concen: 0.699 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

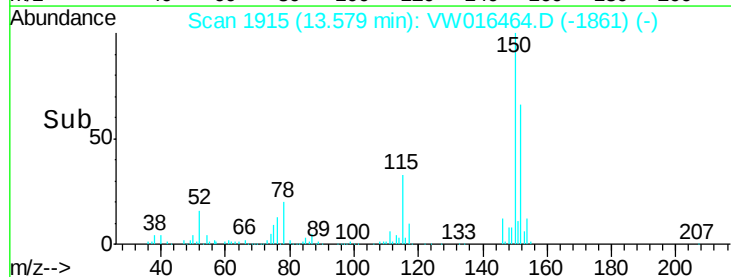
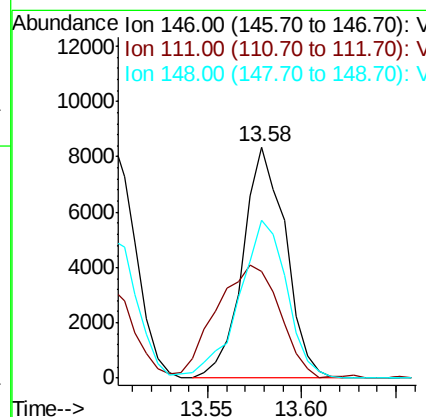
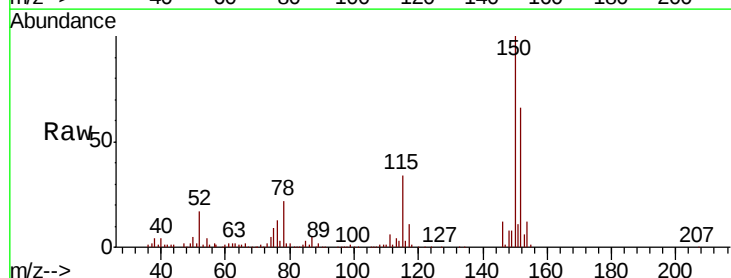
Instrument :  
 MSVOA\_W  
 ClientSampled :

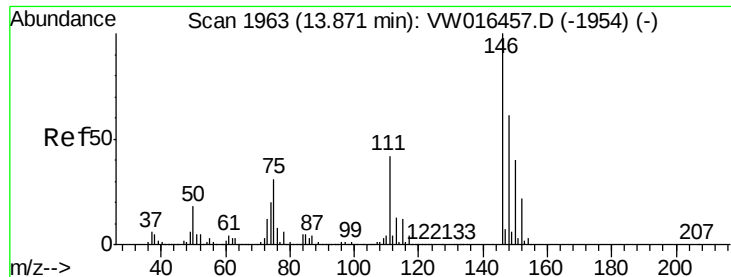
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.6  | 26.5  | 49.3  |
| 148     | 57.4  | 41.3  | 76.7  |



#64  
 1,4-Dichlorobenzene  
 Concen: 0.700 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.0  | 26.4  | 49.0  |
| 148     | 68.3  | 45.1  | 83.9  |





#65

1,2-Dichlorobenzene

Concen: 0.704 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW016464.D

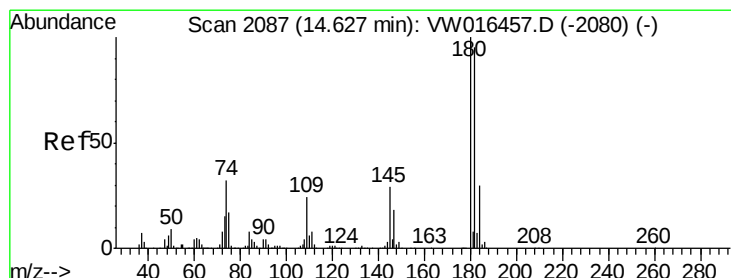
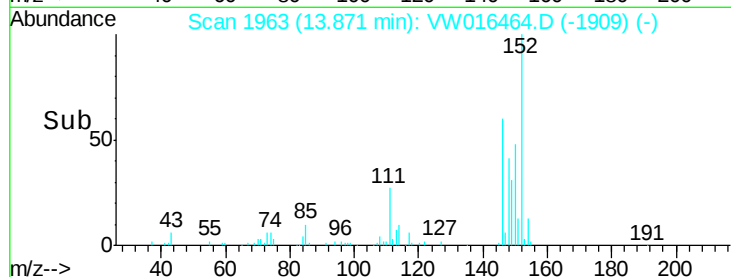
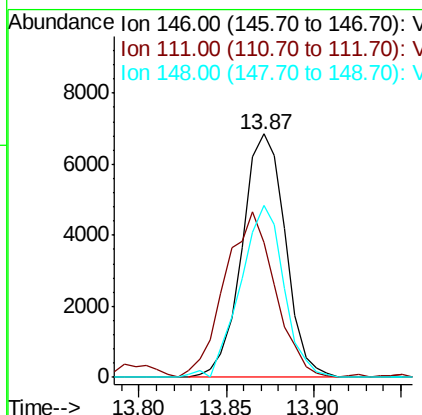
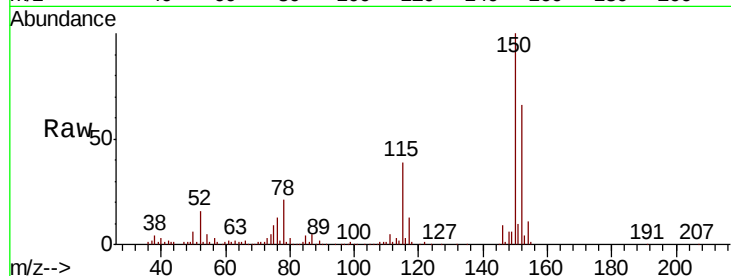
Acq: 04 Sep 2020 15:12

Instrument :

MSVOA\_W

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:146 | Resp: | 11863      |
| Ion Ratio   | Lower | Upper      |
| 146         | 100   |            |
| 111         | 55.3  | 35.3 52.9# |
| 148         | 70.8  | 49.8 74.8  |



#67

1,3,5-Trichlorobenzene

Concen: 0.661 ug/L

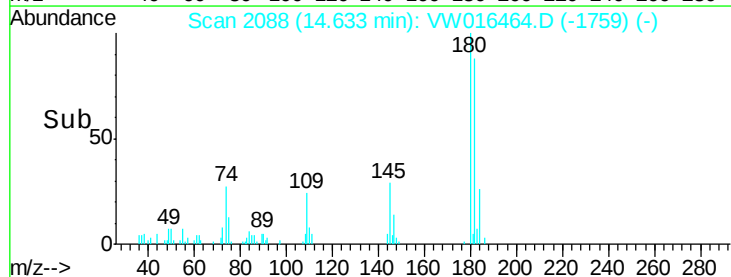
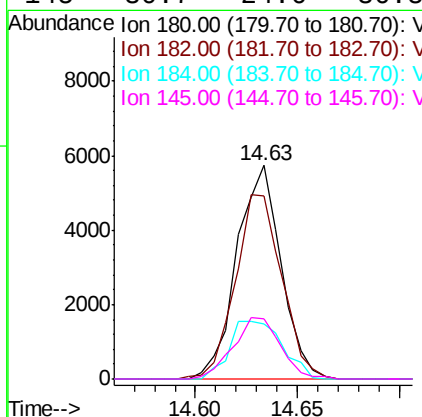
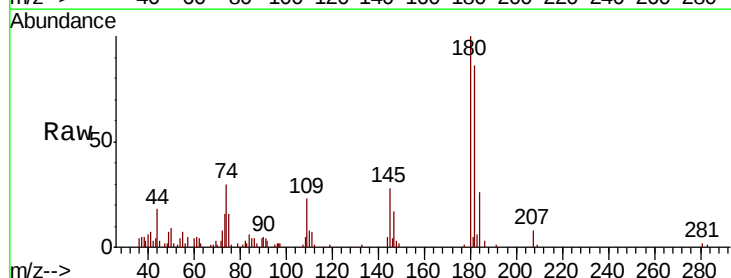
RT: 14.63 min Scan# 2088

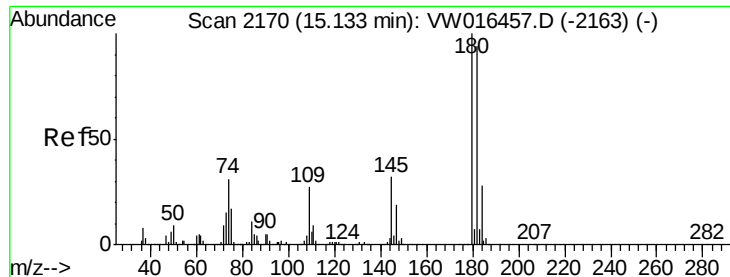
Delta R.T. 0.01 min

Lab File: VW016464.D

Acq: 04 Sep 2020 15:12

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 8646       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 91.1  | 75.8 113.8 |
| 184         | 32.8  | 24.2 36.2  |
| 145         | 30.7  | 24.6 36.8  |

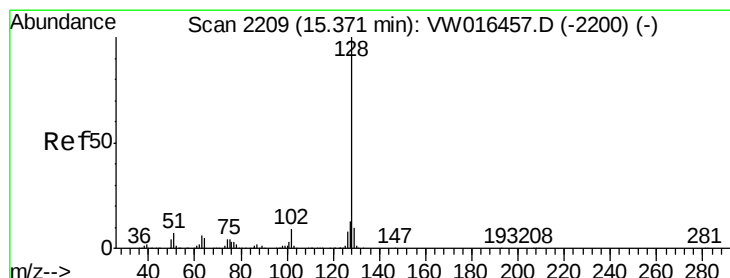
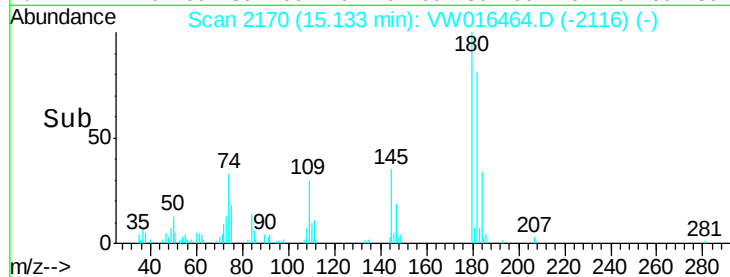
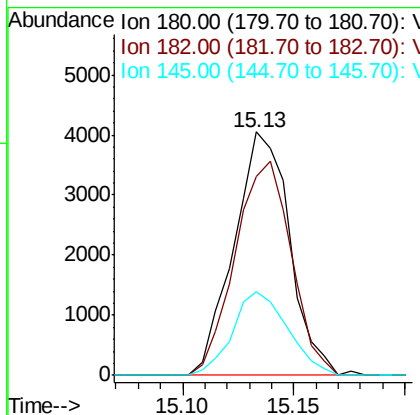
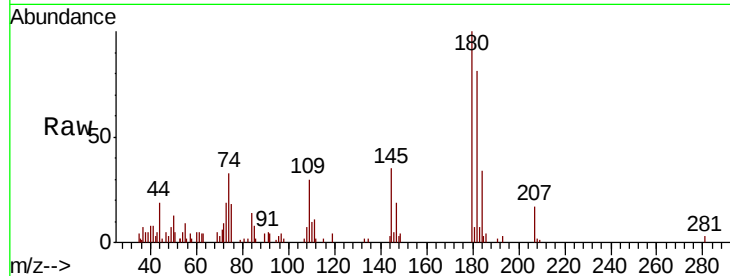




#68  
 1,2,4-trichlorobenzene  
 Concen: 0.622 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

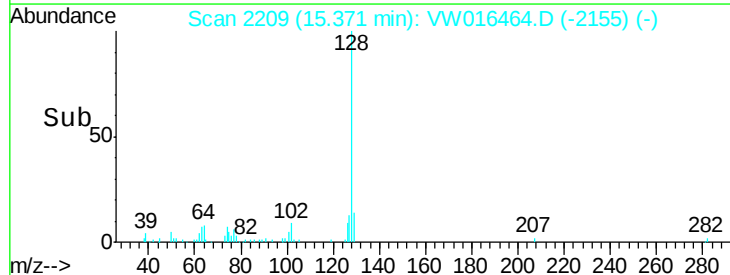
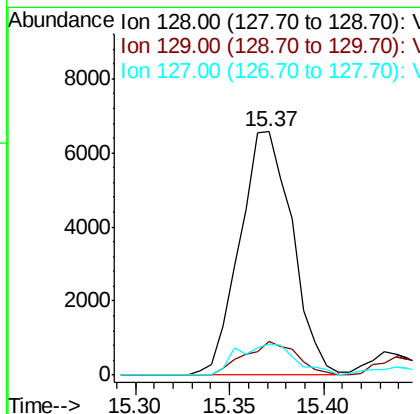
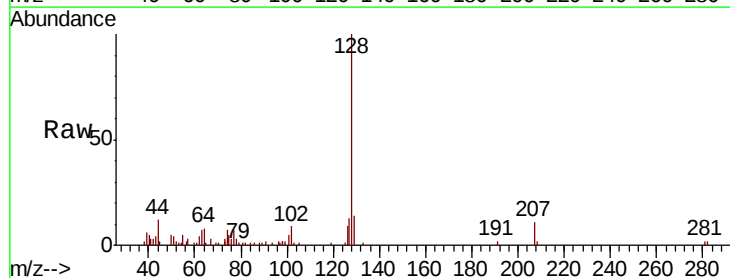
Instrument :  
 MSVOA\_W  
 ClientSampleId :

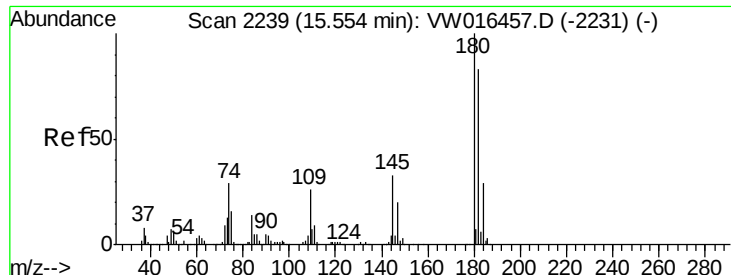
Tot Ion:180 Resp: 7036  
 Ion Ratio Lower Upper  
 180 100  
 182 88.7 78.5 117.7  
 145 34.2 25.6 38.4



#69  
 Naphthalene  
 Concen: 0.532 ug/L  
 RT: 15.37 min Scan# 2209  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

Tgt Ion:128 Resp: 12695  
 Ion Ratio Lower Upper  
 128 100  
 129 13.8 8.7 13.1#  
 127 9.9 10.5 15.7#

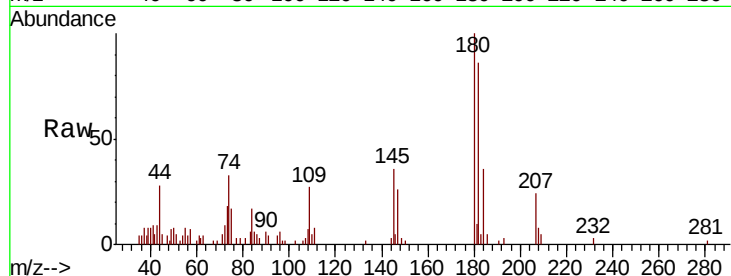




#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.588 ug/L  
 RT: 15.56 min Scan# 2240  
 Delta R.T. 0.00 min  
 Lab File: VW016464.D  
 Acq: 04 Sep 2020 15:12

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 90.3  | 76.1  | 114.1 |
| 145     | 35.6  | 28.1  | 42.1  |



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

