

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072220\  
 Data File : VW015899.D  
 Acq On : 22 Jul 2020 09:57  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 23 02:59:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 22 06:22:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 431912   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 397727   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 189319   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 136646   | 22.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.68% |
| 7) Chloroethane-d5             | 2.90   | 69    | 118840   | 24.01    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.04% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 296870   | 24.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 96.36% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 70699    | 44.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 88.32% |
| 24) Chloroform-d               | 7.65   | 84    | 286810   | 23.64    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.56% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 147438   | 22.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 88.56% |
| 29) Benzene-d6                 | 8.27   | 84    | 560093   | 23.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 92.56% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 164546   | 22.67    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 90.68% |
| 37) Toluene-d8                 | 10.32  | 98    | 501167   | 22.85    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.40% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 66306    | 21.43    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 85.72% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 53750    | 44.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 88.96% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 123831   | 22.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.80% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 164338   | 22.26    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 89.04% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 98472  | 26.944 | ug/L 99  |
| 3) Chloromethane               | 2.21 | 50  | 112688 | 25.494 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 185358 | 27.188 | ug/L 99  |
| 6) Bromomethane                | 2.79 | 94  | 108644 | 26.712 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 112711 | 28.222 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 138635 | 30.253 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 154797 | 27.634 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 149811 | 26.983 | ug/L 93  |
| 13) Acetone                    | 4.12 | 43  | 74330  | 55.287 | ug/L 100 |
| 14) Carbon disulfide           | 4.38 | 76  | 466927 | 26.629 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 59520  | 23.480 | ug/L 97  |
| 16) Methylene chloride         | 4.92 | 84  | 161663 | 22.842 | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 200281 | 25.509 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 158360 | 27.010 | ug/L 98  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 287401 | 26.600 | ug/L 99  |
| 21) 2-Butanone                 | 7.18 | 43  | 87850  | 52.842 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 162479 | 26.488 | ug/L 98  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072220\  
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 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

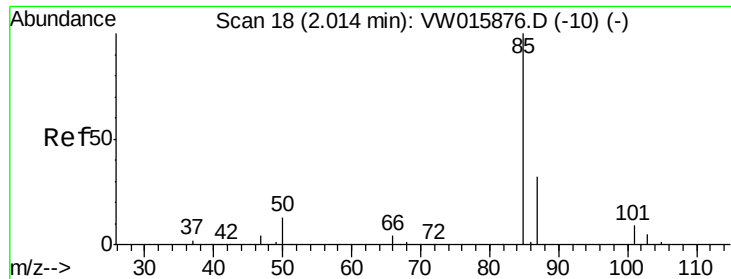
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 23 02:59:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 22 06:22:59 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 69927    | 25.997 | ug/L  | 95       |
| 25) Chloroform                  | 7.68  | 83   | 282603   | 26.392 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 183740   | 25.218 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 270756   | 26.998 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 247477   | 26.648 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 222582   | 26.430 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 642731   | 26.607 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 166270   | 26.020 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 296378   | 27.030 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 155258   | 25.944 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 197775   | 25.591 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 237769   | 26.088 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 168097   | 48.125 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 674979   | 26.642 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 201065   | 25.451 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 108861   | 25.297 | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.87 | 164  | 133253   | 26.865 | ug/L  | 91       |
| 49) 2-Hexanone                  | 10.97 | 43   | 126610   | 51.079 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 125668   | 25.224 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 100580   | 24.432 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 419167   | 25.819 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 765937   | 26.885 | ug/L  | 97       |
| 54) m,p-Xylene                  | 11.84 | 106  | 291366   | 27.336 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 271035   | 27.005 | ug/L  | 98       |
| 56) Styrene                     | 12.18 | 104  | 467596   | 27.396 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.47 | 105  | 753391   | 27.575 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 124995   | 24.736 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 92333    | 24.387 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 66293    | 23.804 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 320479   | 26.449 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 318523   | 25.902 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 279939   | 25.435 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 18986    | 22.919 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 228795   | 26.855 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 177858   | 26.282 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 318259   | 24.964 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 159602   | 26.470 | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 26.944 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

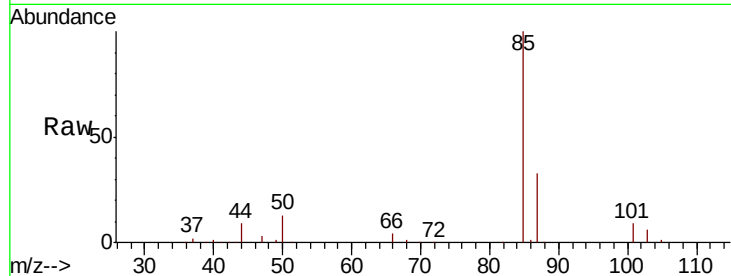
ClientSampleId :

Tot Ion: 85 Resp: 98472

Ion Ratio Lower Upper

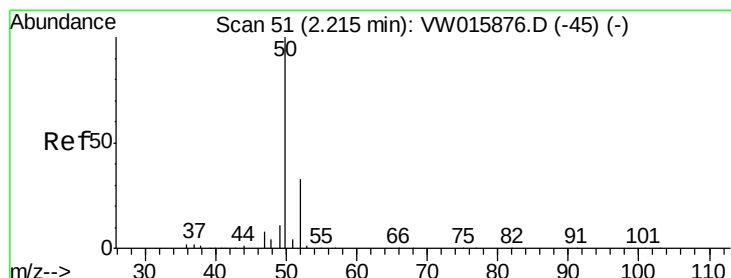
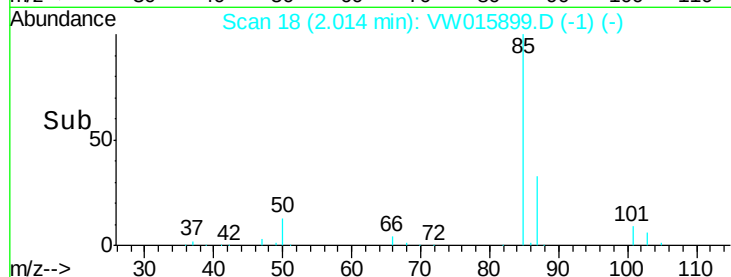
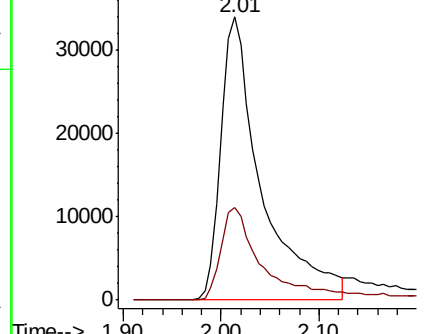
85 100

87 29.6 21.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 25.494 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015899.D

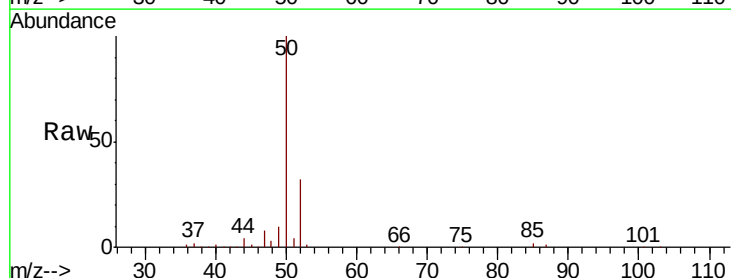
Acq: 22 Jul 2020 09:57

Tgt Ion: 50 Resp: 112688

Ion Ratio Lower Upper

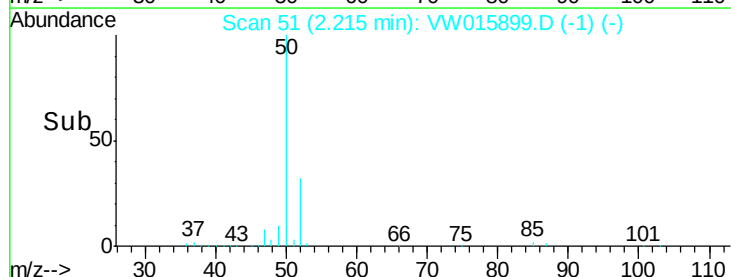
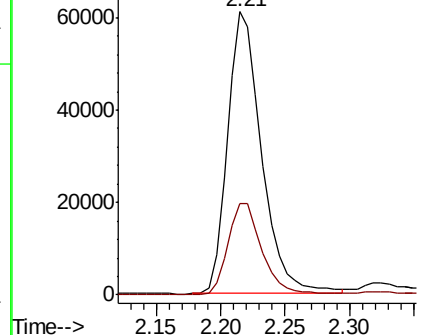
50 100

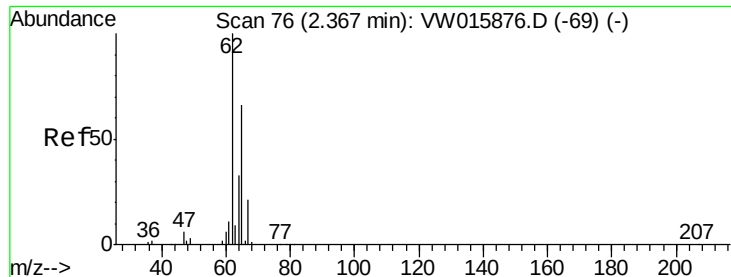
52 32.2 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 27.188 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

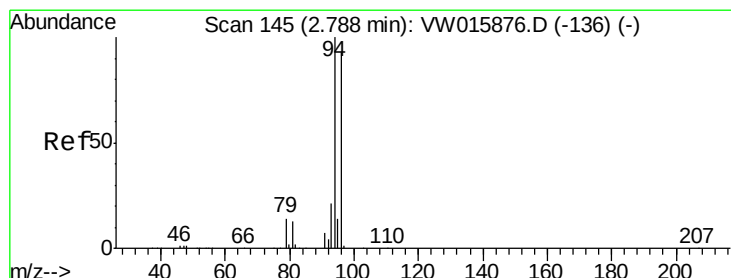
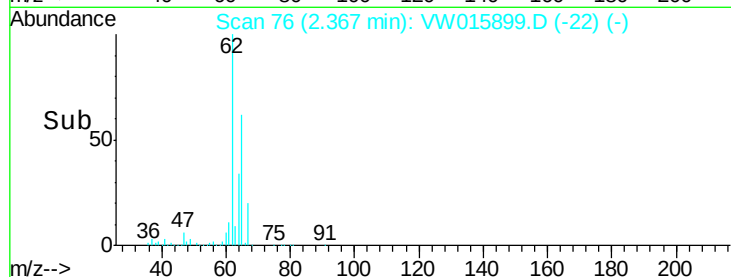
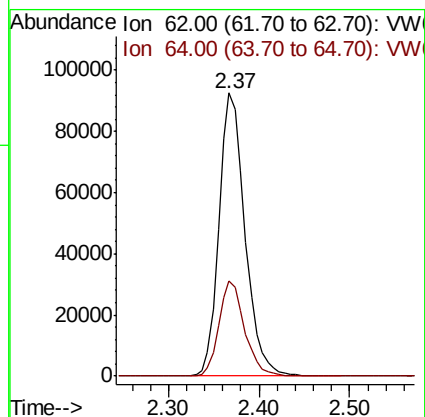
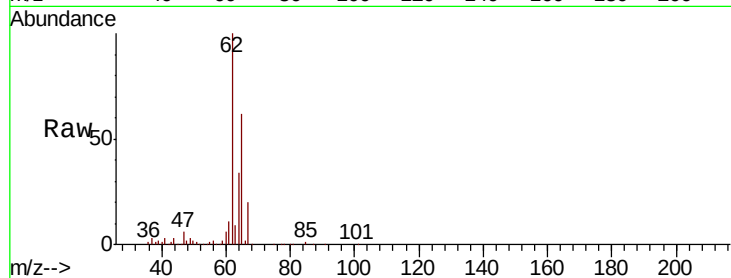
ClientSampleId :

Tot Ion: 62 Resp: 185358

Ion Ratio Lower Upper

62 100

64 33.6 23.2 43.0



#6

Bromomethane

Concen: 26.712 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW015899.D

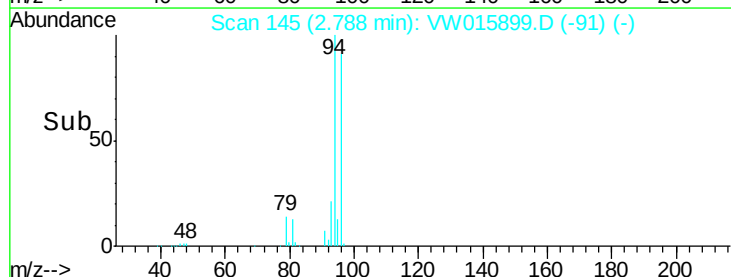
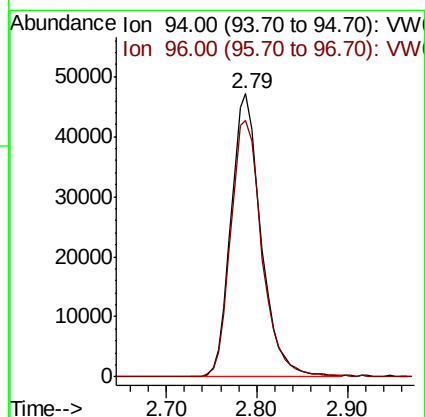
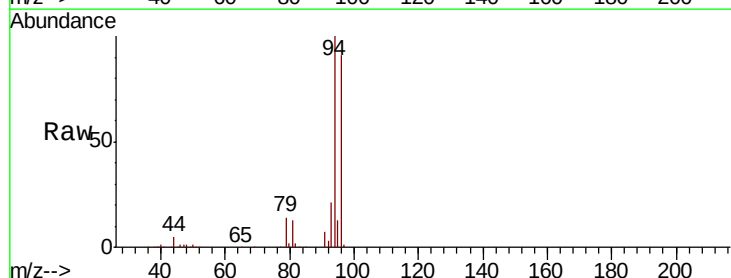
Acq: 22 Jul 2020 09:57

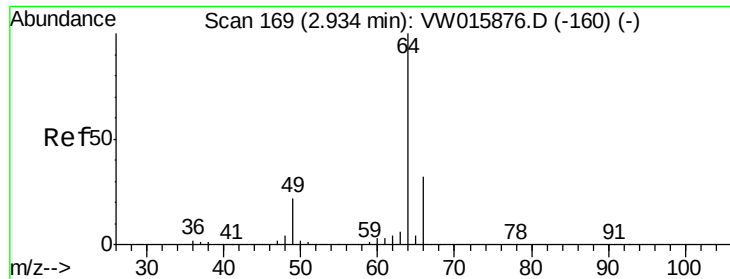
Tgt Ion: 94 Resp: 108644

Ion Ratio Lower Upper

94 100

96 93.8 9.5 180.1

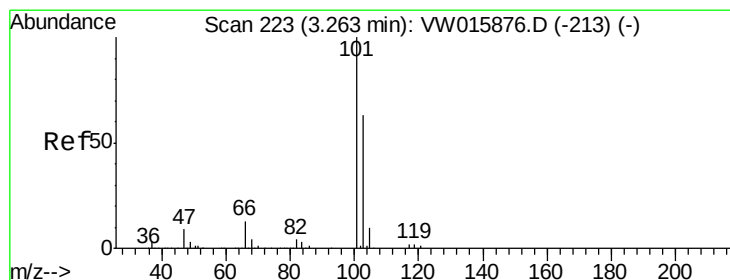
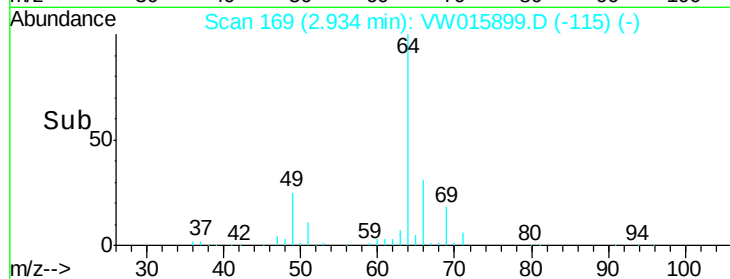
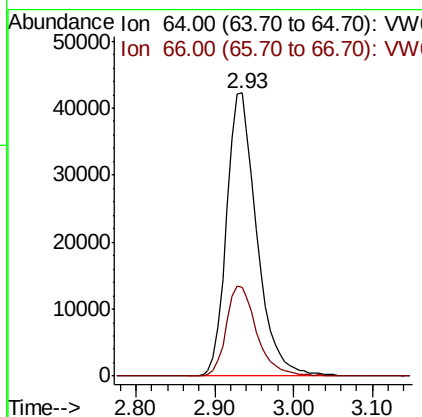
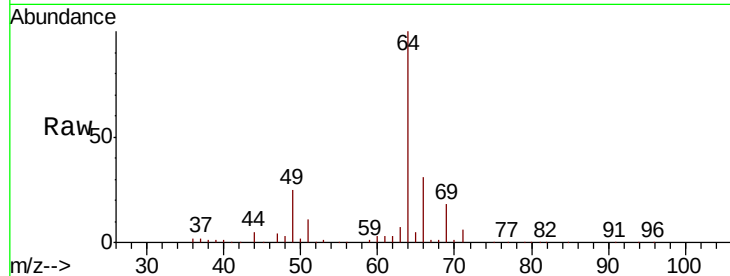




#8  
Chloroethane  
Concen: 28.222 ug/L  
RT: 2.93 min Scan# 169  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

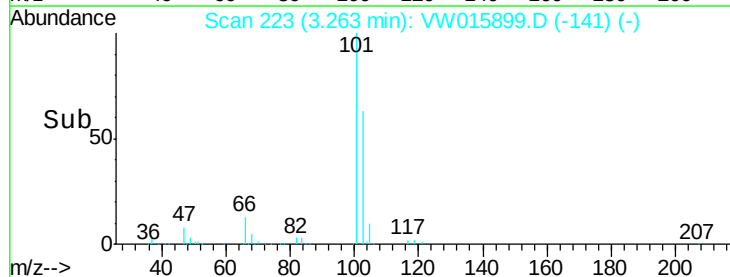
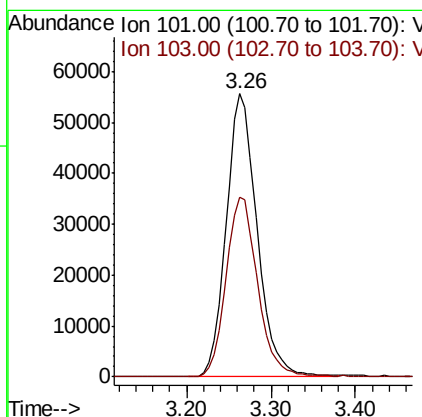
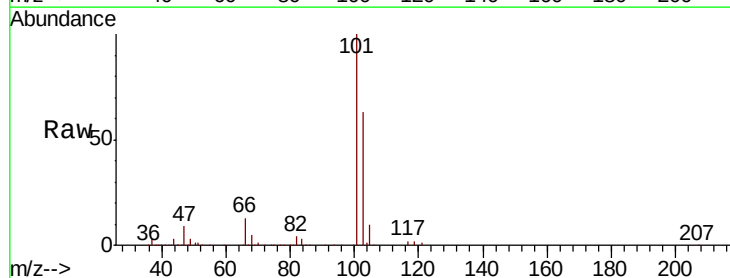
Instrument :  
MSVOA\_W  
ClientSampleId :

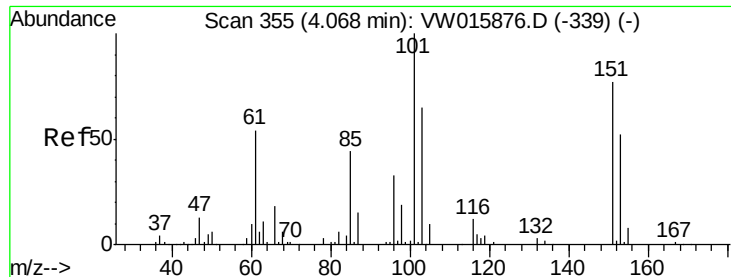
Tot Ion: 64 Resp: 112711  
Ion Ratio Lower Upper  
64 100  
66 31.5 21.8 40.4



#9  
Trichlorofluoromethane  
Concen: 30.253 ug/L  
RT: 3.26 min Scan# 223  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 101 Resp: 138635  
Ion Ratio Lower Upper  
101 100  
103 64.9 45.8 85.2





#11

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

Concen: 27.634 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampled :

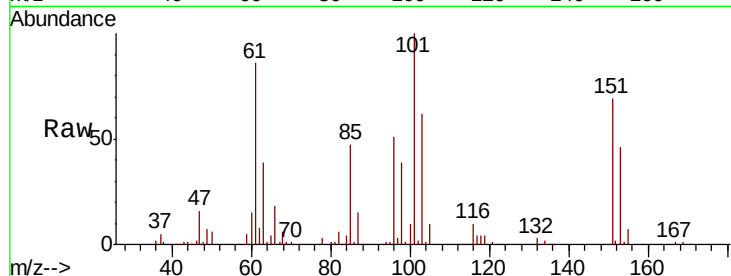
Tot Ion:101 Resp: 154797

Ion Ratio Lower Upper

101 100

85 43.1 35.5 53.3

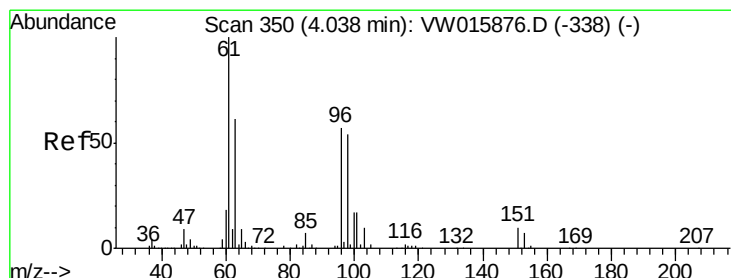
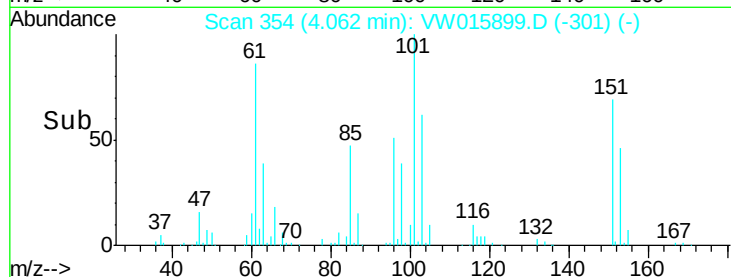
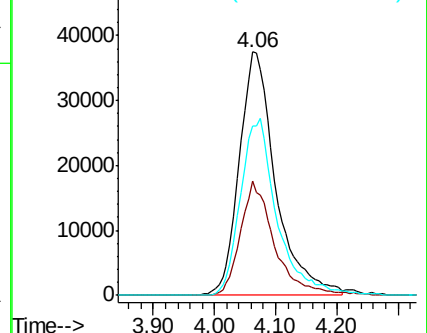
151 73.0 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.983 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

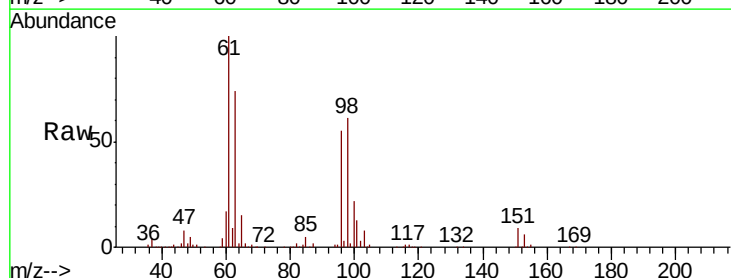
Tgt Ion: 96 Resp: 149811

Ion Ratio Lower Upper

96 100

61 181.1 125.0 232.2

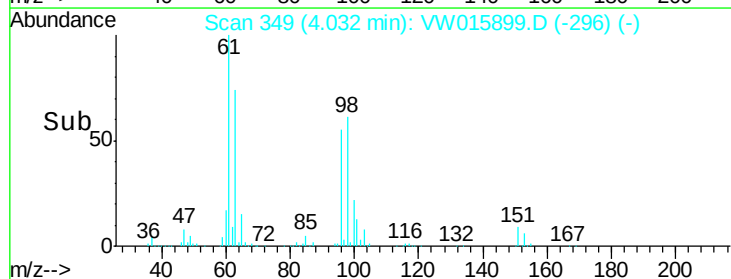
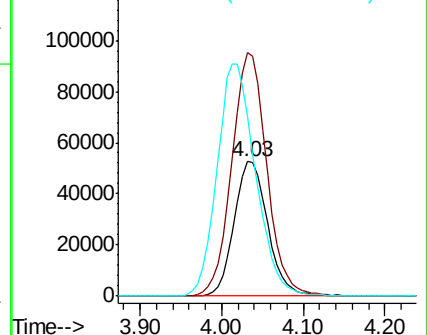
63 133.6 82.3 152.8

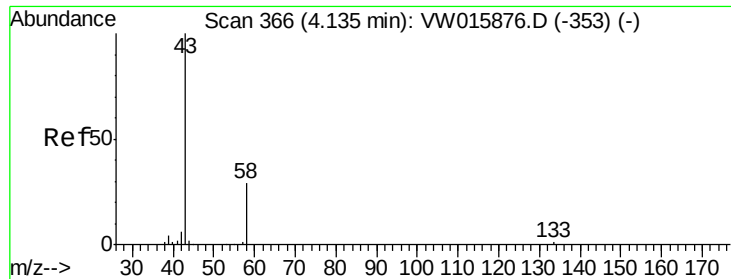


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 55.287 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

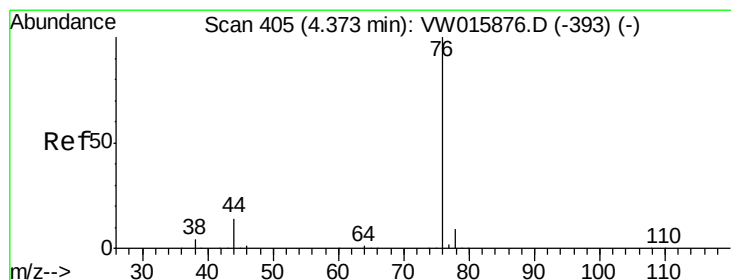
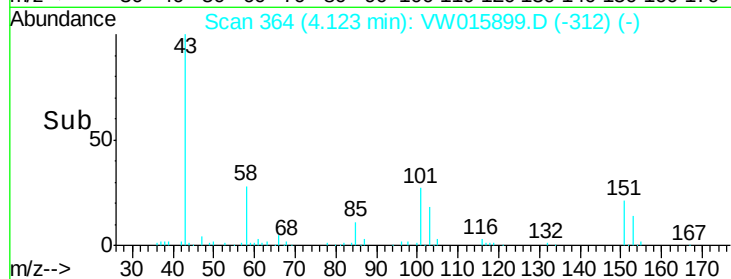
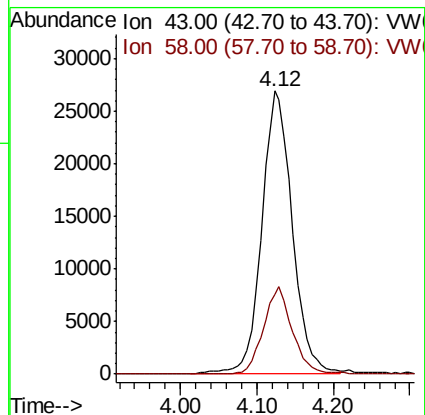
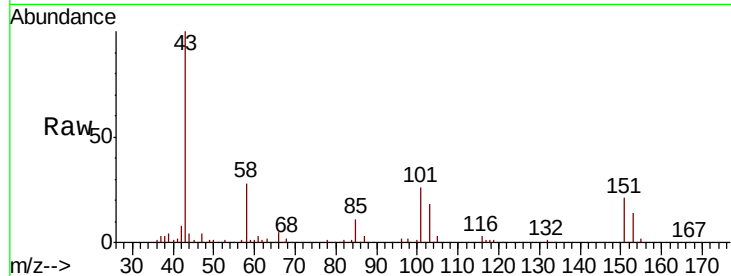
ClientSampled :

Tot Ion: 43 Resp: 74330

Ion Ratio Lower Upper

43 100

58 29.2 0.0 58.2



#14

Carbon disulfide

Concen: 26.629 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW015899.D

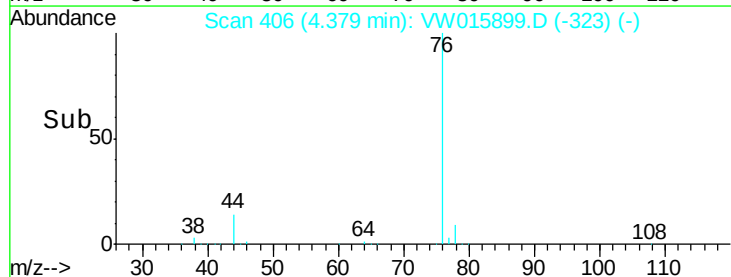
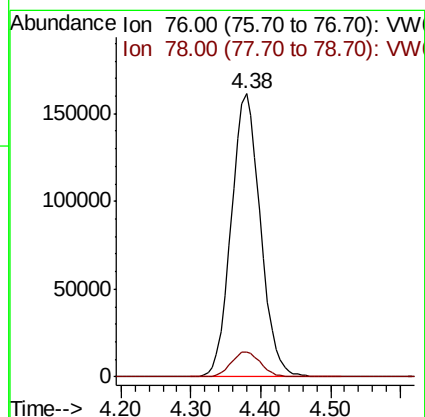
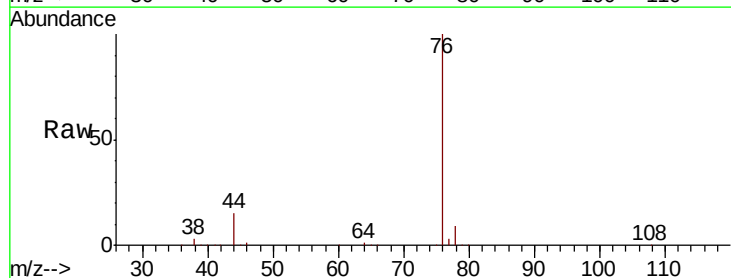
Acq: 22 Jul 2020 09:57

Tgt Ion: 76 Resp: 466927

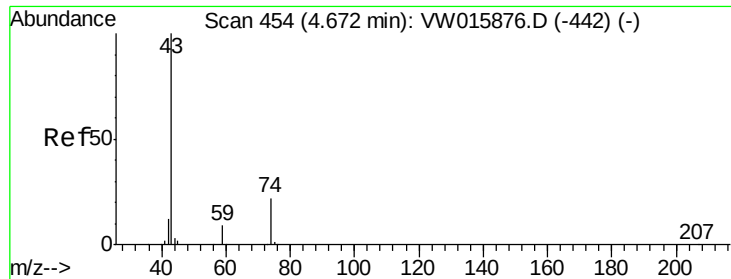
Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



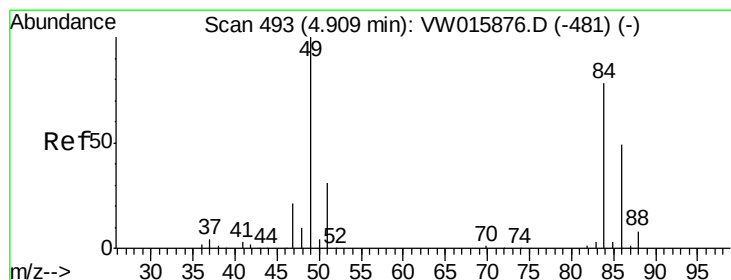
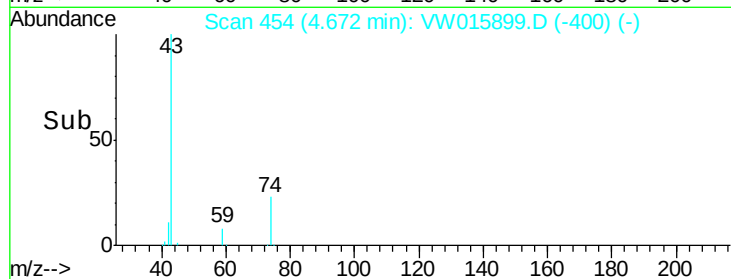
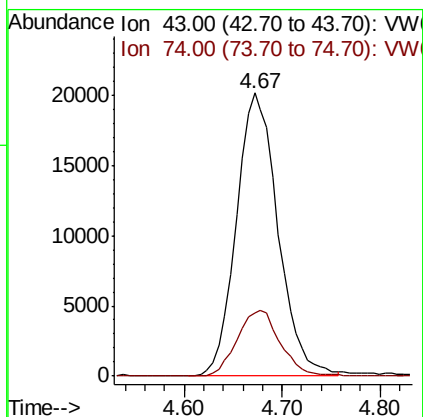
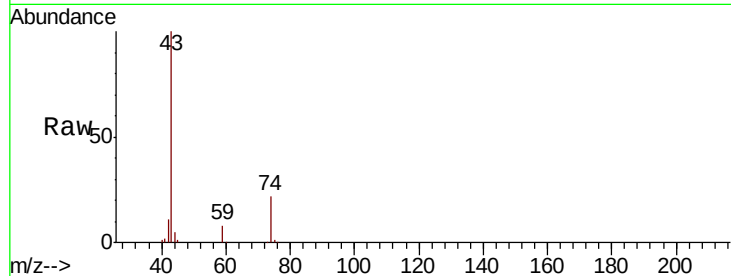




#15  
Methyl Acetate  
Concen: 23.480 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

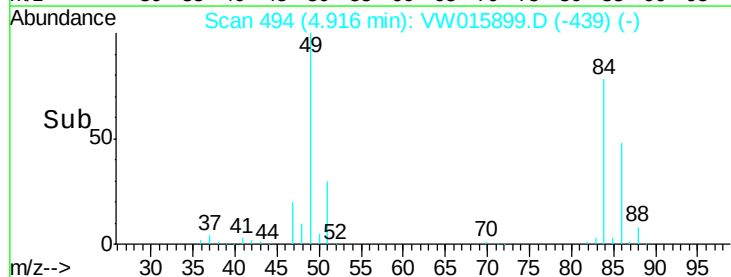
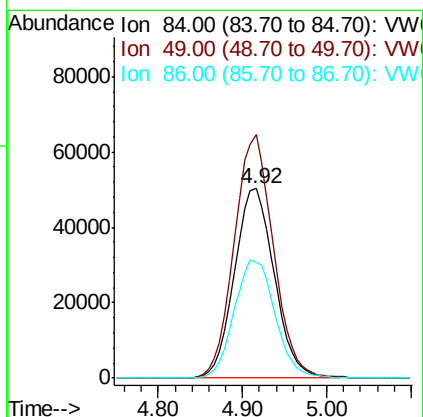
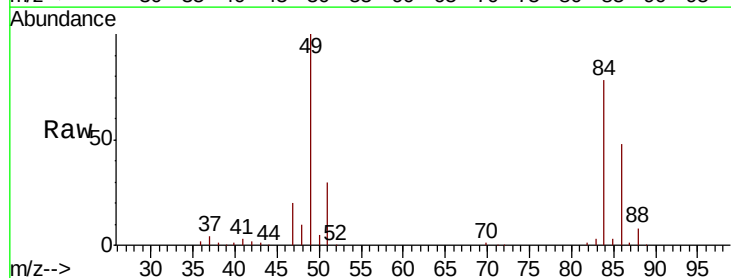
Instrument :  
MSVOA\_W  
ClientSampleId :

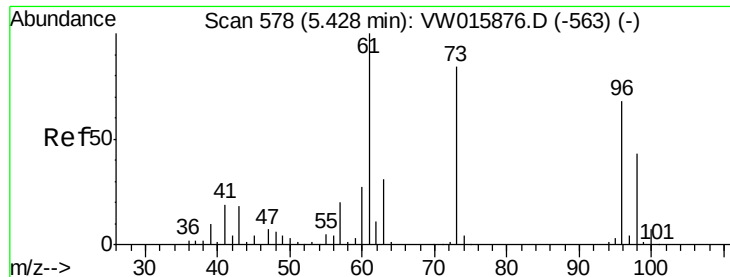
Tot Ion: 43 Resp: 59520  
Ion Ratio Lower Upper  
43 100  
74 23.9 18.2 27.2



#16  
Methylene chloride  
Concen: 22.842 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 84 Resp: 161663  
Ion Ratio Lower Upper  
84 100  
49 128.6 91.1 169.1  
86 61.3 46.0 85.4

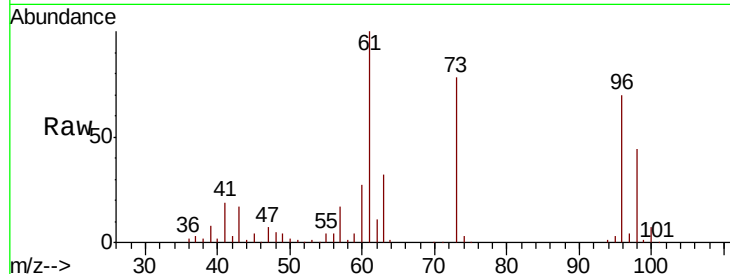




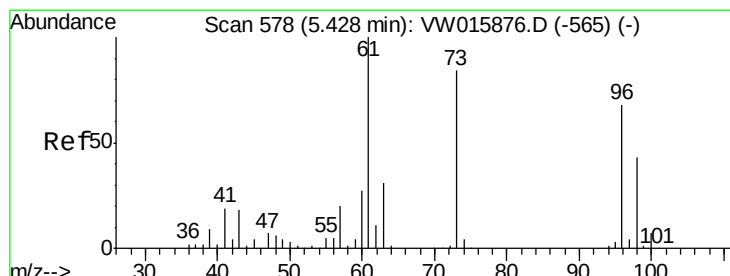
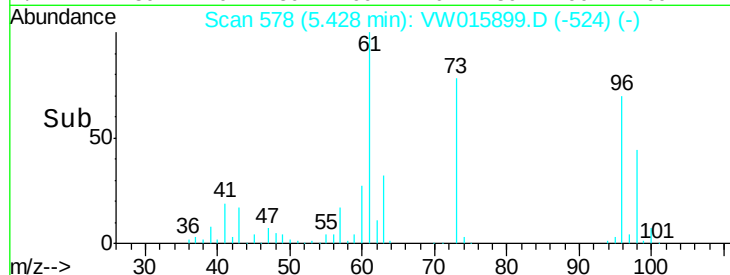
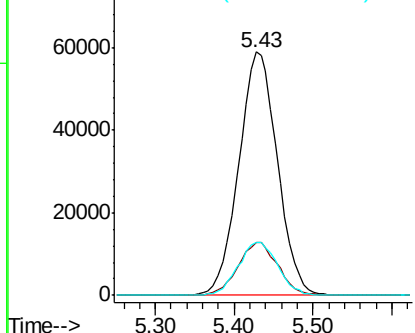
#17  
Methvl tert-butyl Ether  
Concen: 25.509 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 73 Resp: 200281  
Ion Ratio Lower Upper  
73 100  
43 22.4 18.4 27.6  
57 22.4 17.8 26.8

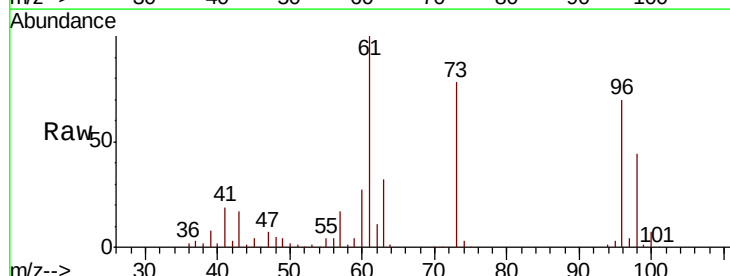


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

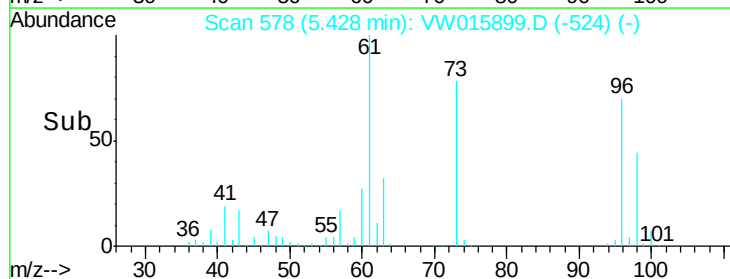
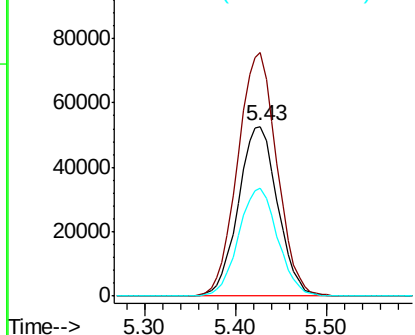


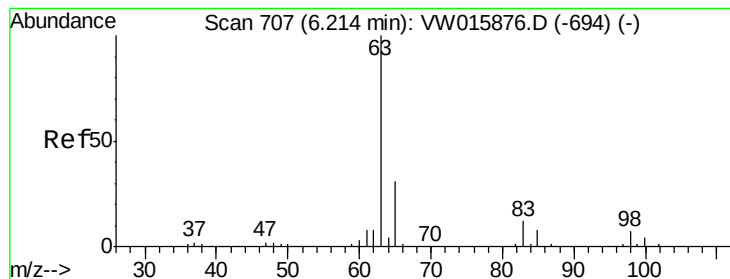
#18  
trans-1,2-Dichloroethene  
Concen: 27.010 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 96 Resp: 158360  
Ion Ratio Lower Upper  
96 100  
61 143.5 99.3 184.5  
98 63.6 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 26.600 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampleId :

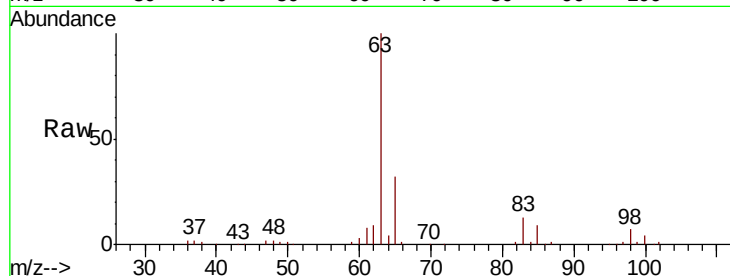
Tot Ion: 63 Resp: 287401

Ion Ratio Lower Upper

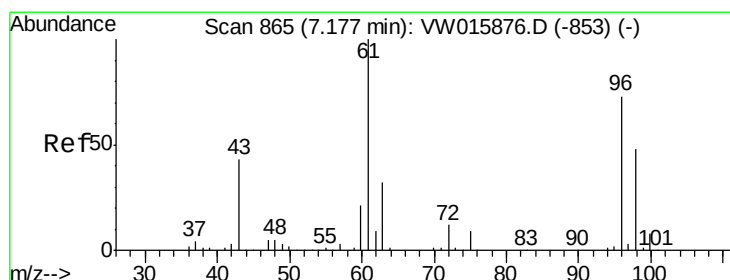
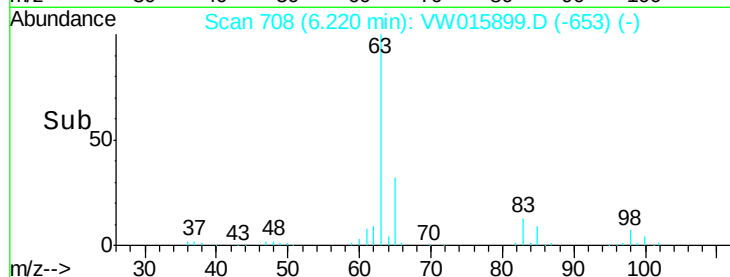
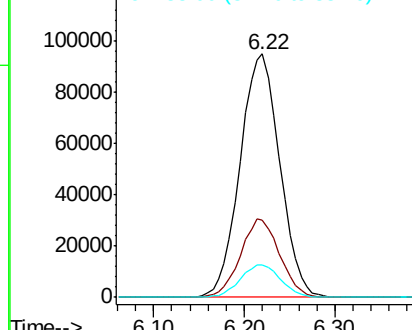
63 100

65 31.5 22.2 41.2

83 13.2 9.8 18.2



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



#21

2-Butanone

Concen: 52.842 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW015899.D

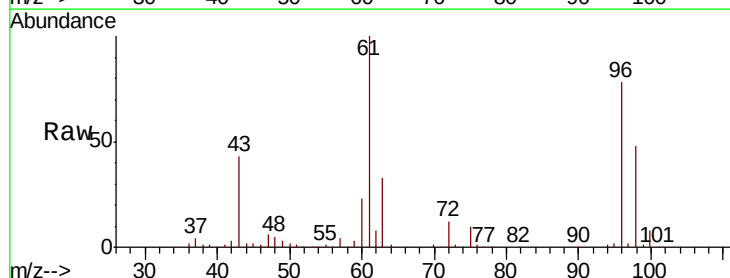
Acq: 22 Jul 2020 09:57

Tgt Ion: 43 Resp: 87850

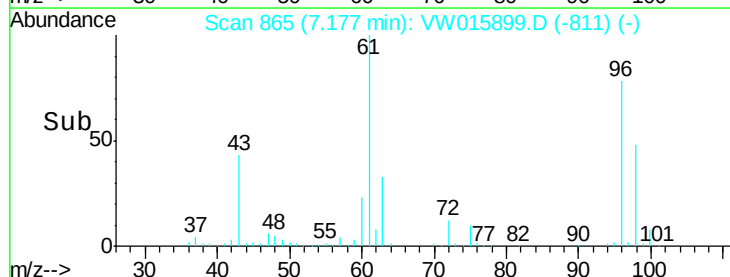
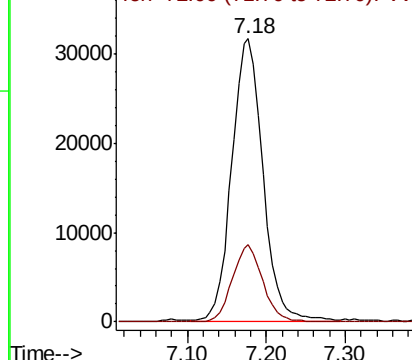
Ion Ratio Lower Upper

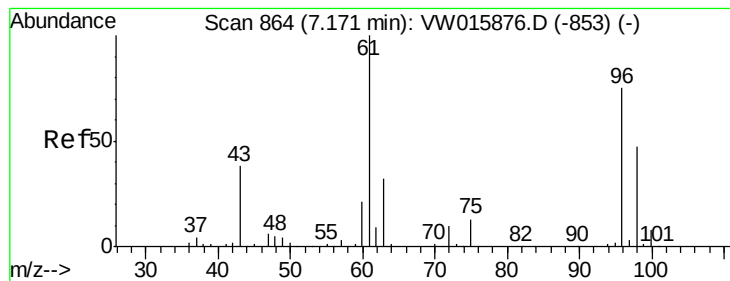
43 100

72 26.0 13.9 41.7



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



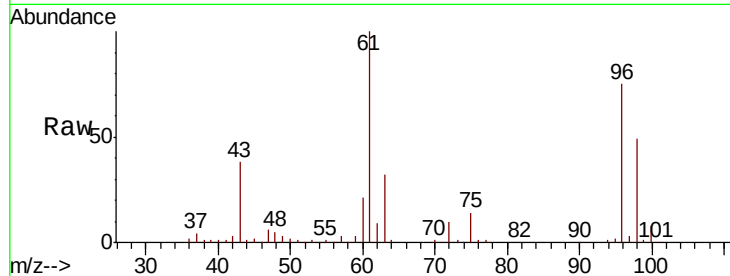


#22

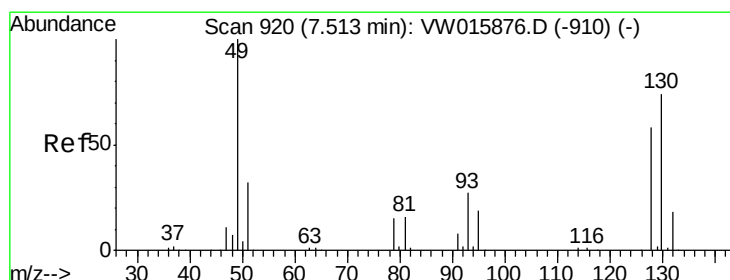
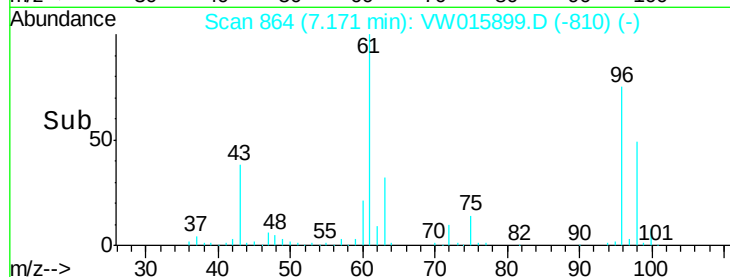
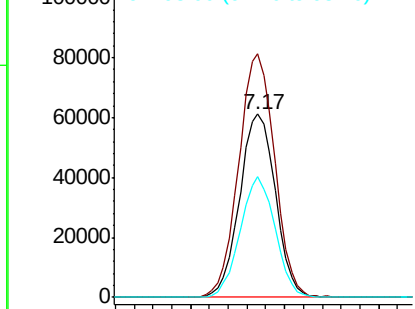
cis-1,2-Dichloroethene  
Concen: 26.488 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 96 Resp: 162479  
Ion Ratio Lower Upper  
96 100  
61 132.9 94.6 175.8  
98 65.7 44.3 82.3



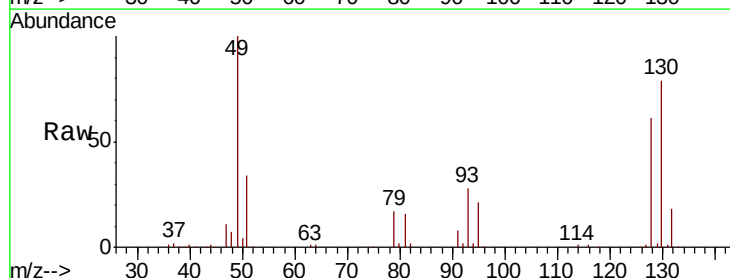
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



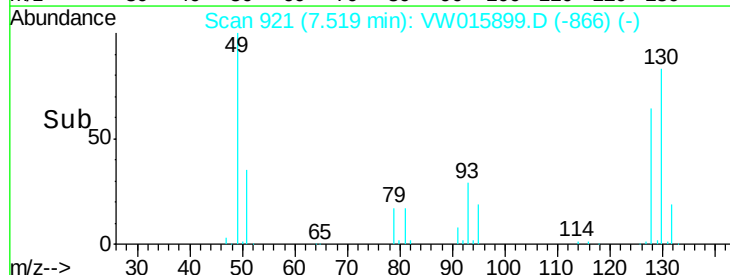
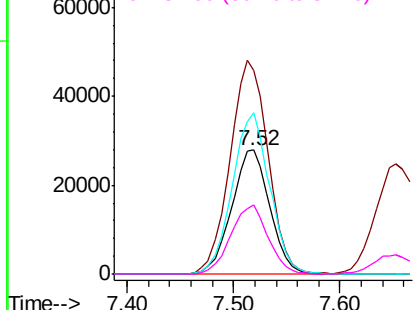
#23

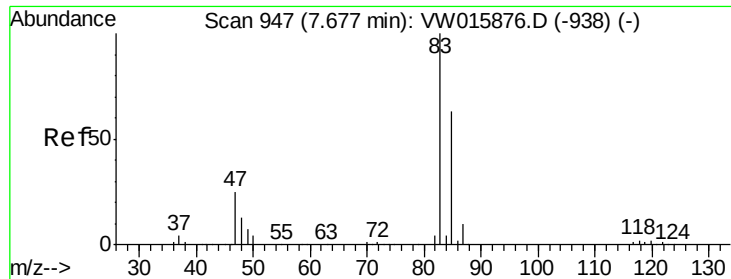
Bromochloromethane  
Concen: 25.997 ug/L  
RT: 7.52 min Scan# 921  
Delta R.T. 0.01 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 128 Resp: 69927  
Ion Ratio Lower Upper  
128 100  
49 164.4 122.4 227.2  
130 130.5 93.9 174.5  
51 55.5 43.2 64.8



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

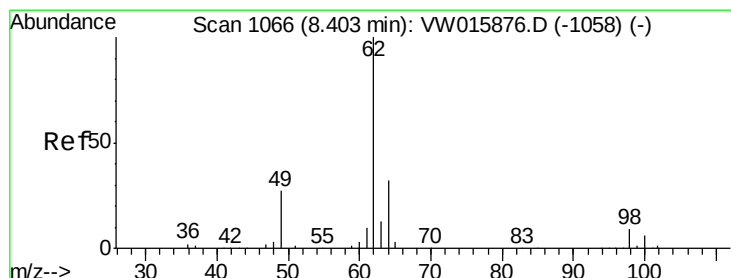
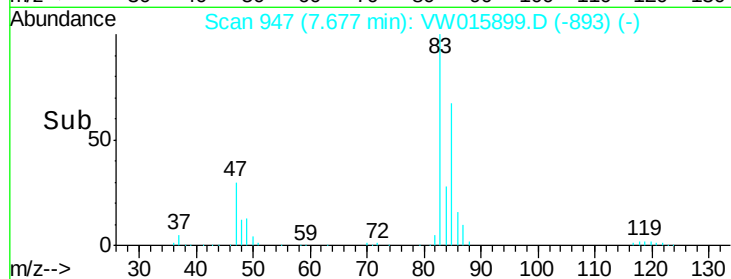
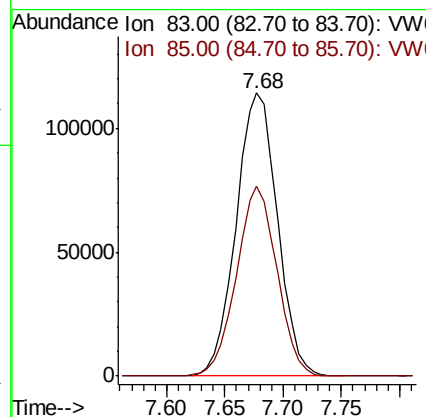
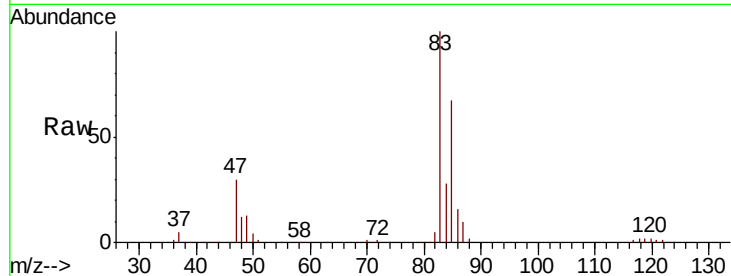




#25  
Chloroform  
Concen: 26.392 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

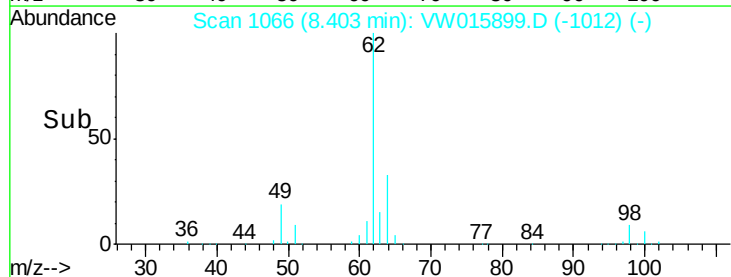
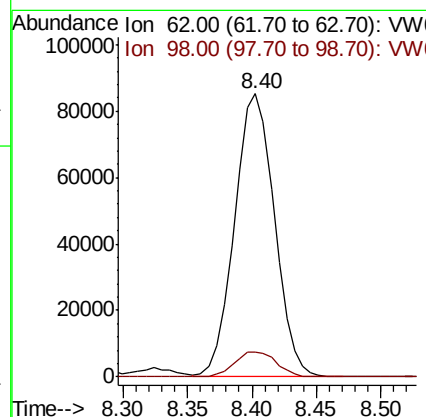
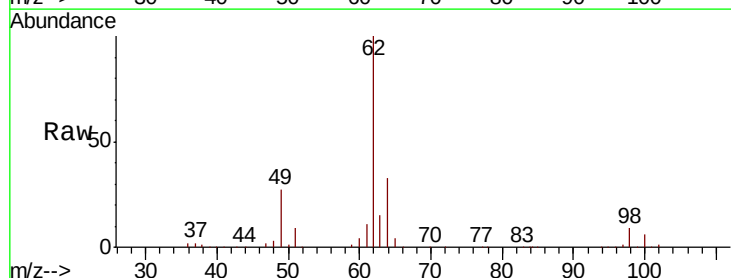
Instrument :  
MSVOA\_W  
ClientSampled :

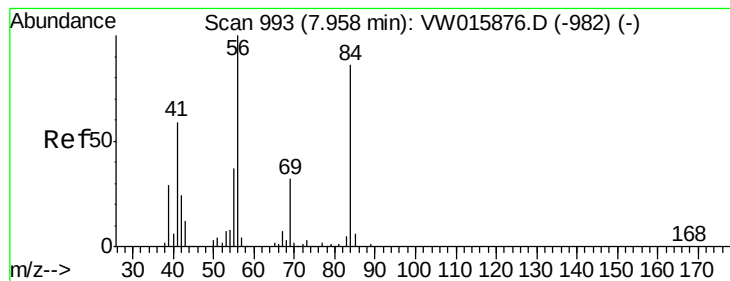
Tot Ion: 83 Resp: 282603  
Ion Ratio Lower Upper  
83 100  
85 65.9 46.5 86.5



#27  
1,2-Dichloroethane  
Concen: 25.218 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 62 Resp: 183740  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.0 10.6





#30

Cyclohexane

Concen: 26.998 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampled :

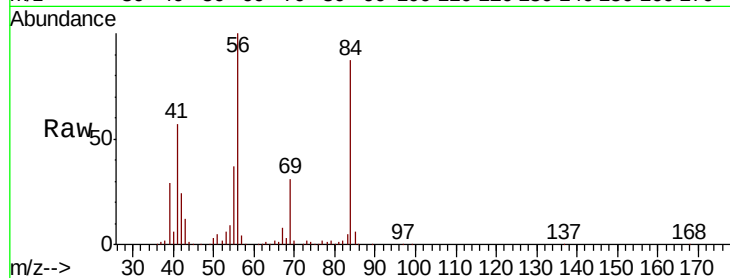
Tot Ion: 56 Resp: 270756

Ion Ratio Lower Upper

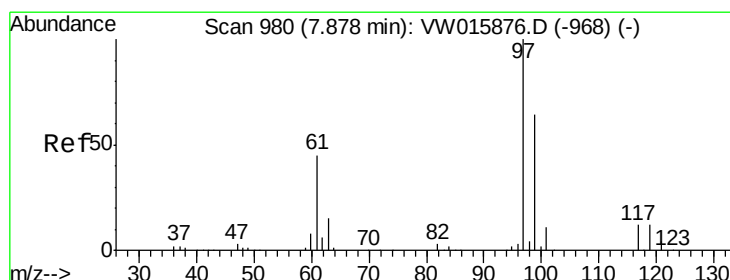
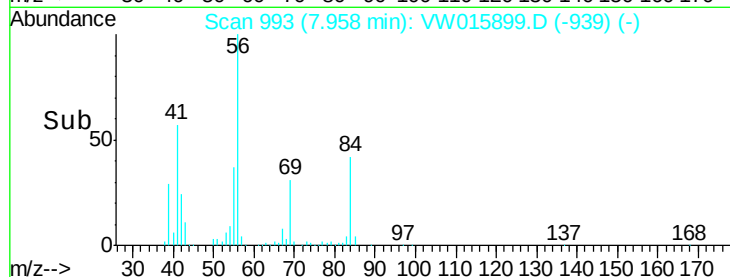
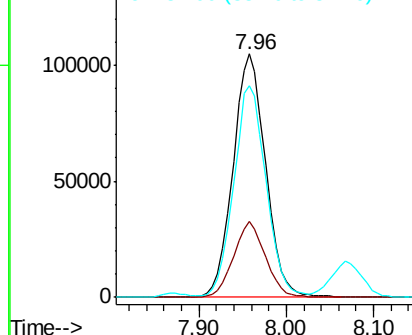
56 100

69 30.3 24.4 36.6

84 86.8 69.3 103.9



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 26.648 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

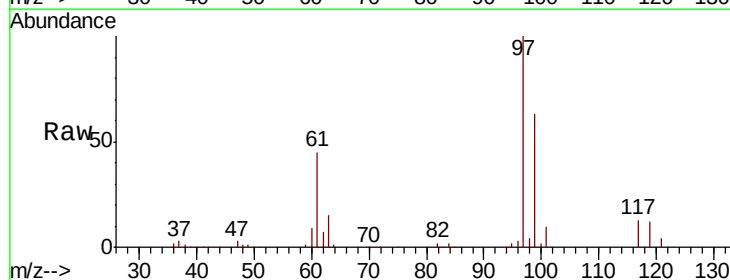
Tgt Ion: 97 Resp: 247477

Ion Ratio Lower Upper

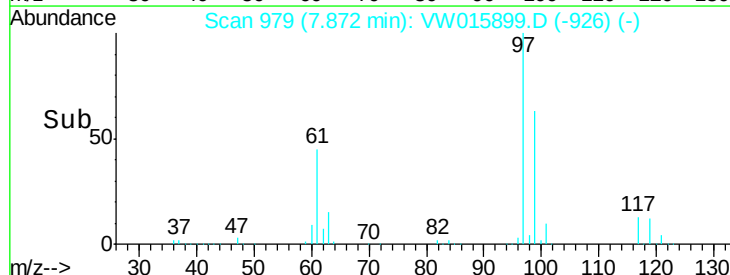
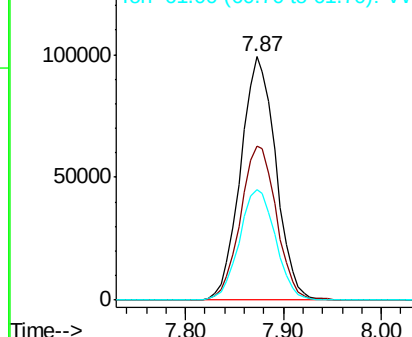
97 100

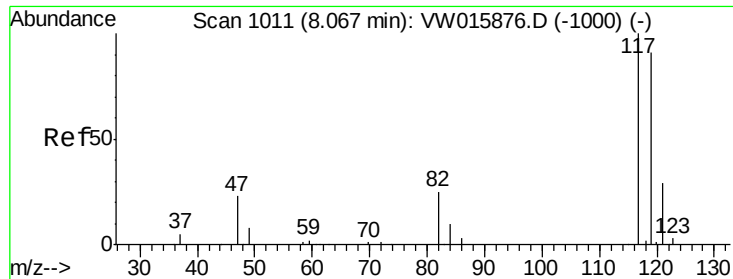
99 64.7 51.9 77.9

61 46.7 37.6 56.4



Abundance Ion 97.00 (96.70 to 97.70): VW  
Ion 99.00 (98.70 to 99.70): VW  
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 26.430 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

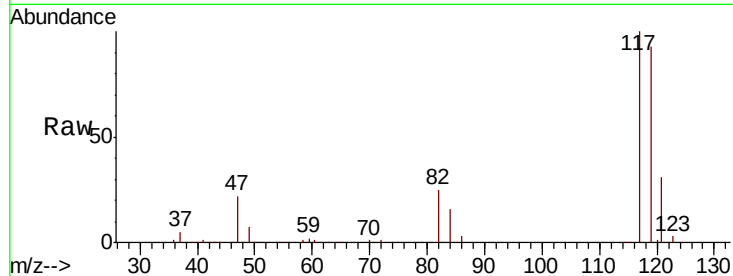
ClientSampled :

Tot Ion:117 Resp: 222582

Ion Ratio Lower Upper

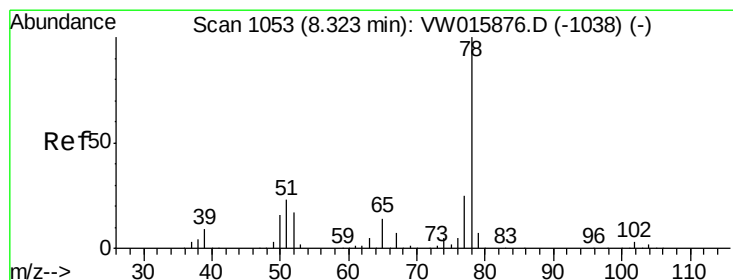
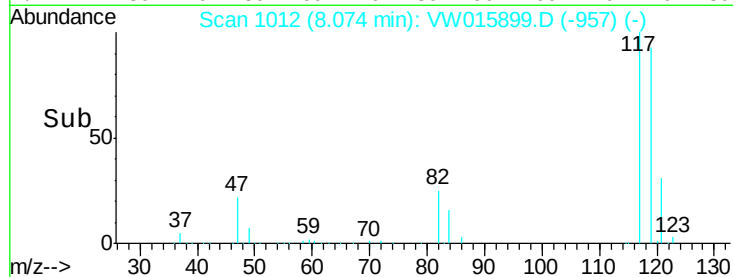
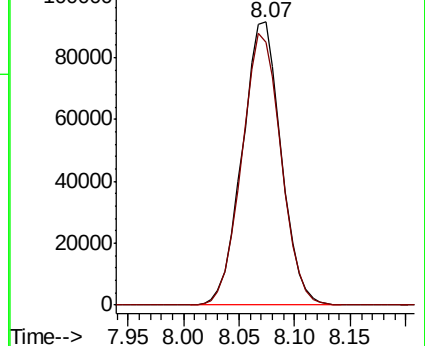
117 100

119 96.8 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.607 ug/L

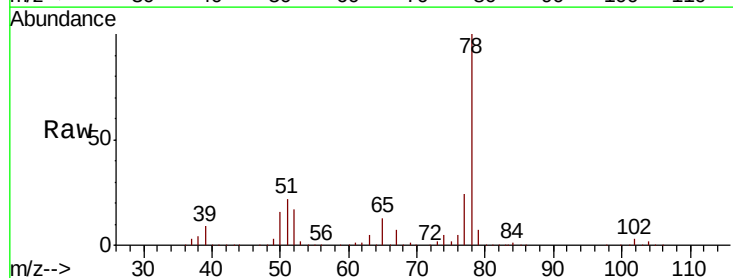
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

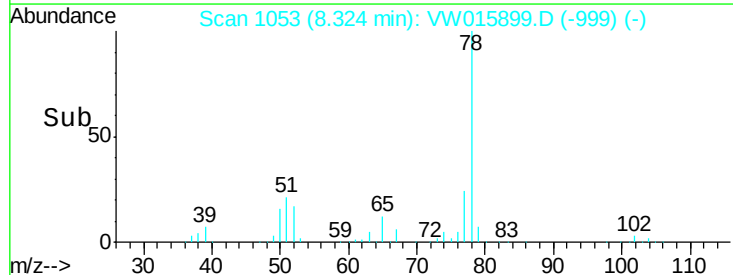
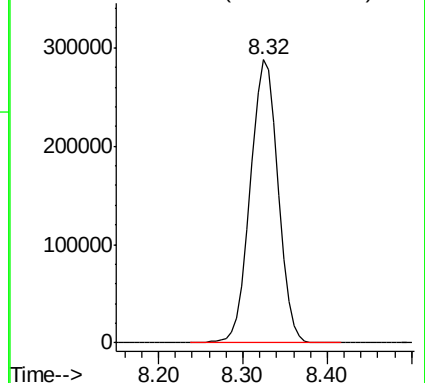
Lab File: VW015899.D

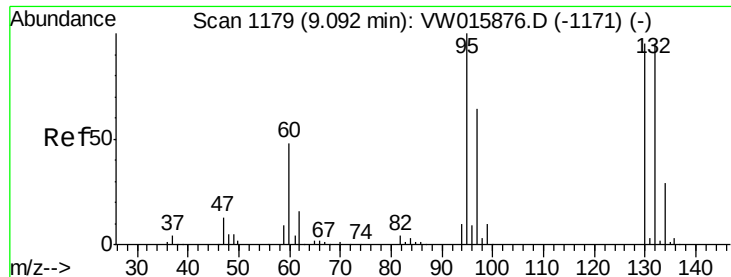
Acq: 22 Jul 2020 09:57

Tgt Ion: 78 Resp: 642731



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.020 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 95 Resp: 166270

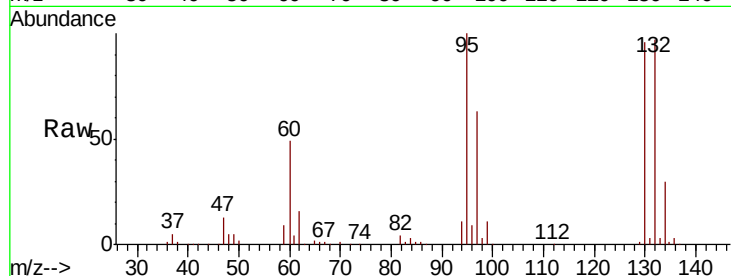
Ion Ratio Lower Upper

95 100

97 64.2 44.4 82.4

132 95.7 65.1 120.9

130 99.4 68.6 127.4



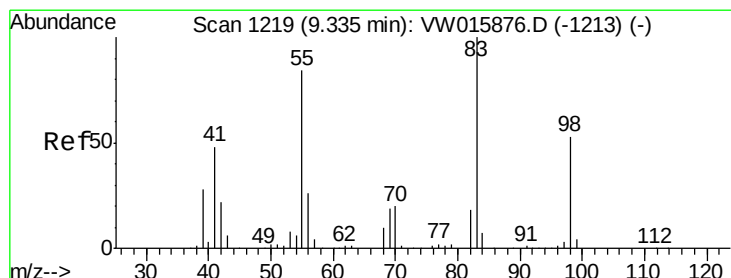
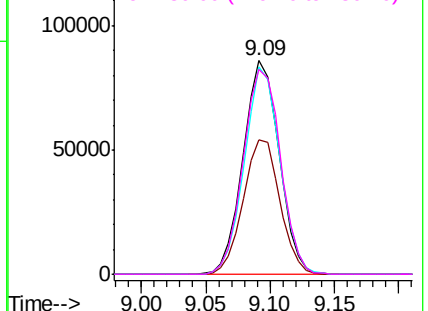
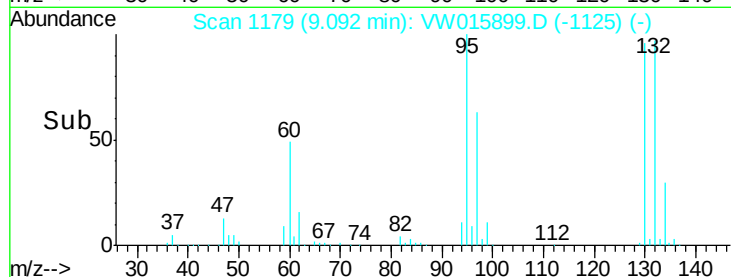
Abundance

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: 27.030 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

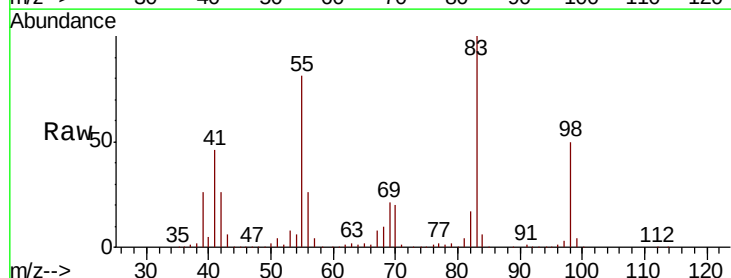
Tgt Ion: 83 Resp: 296378

Ion Ratio Lower Upper

83 100

55 79.3 63.5 95.3

98 49.0 39.0 58.4

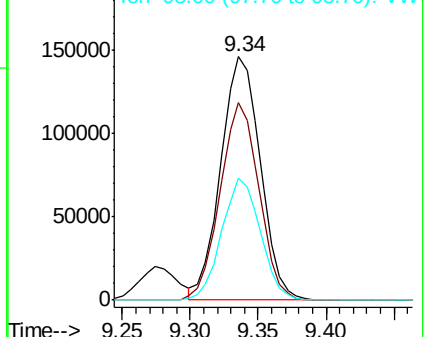
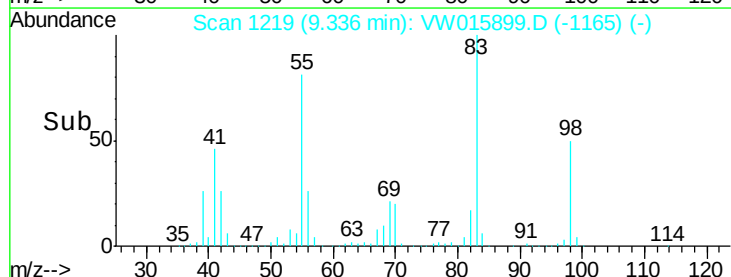


Abundance

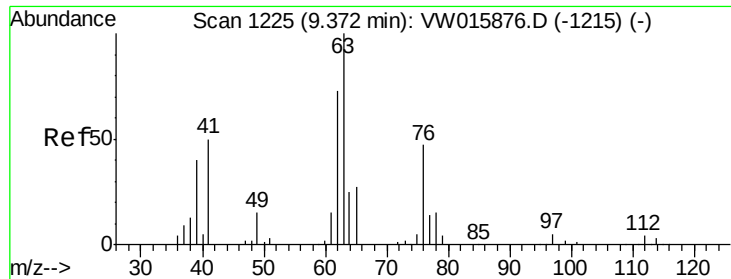
Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



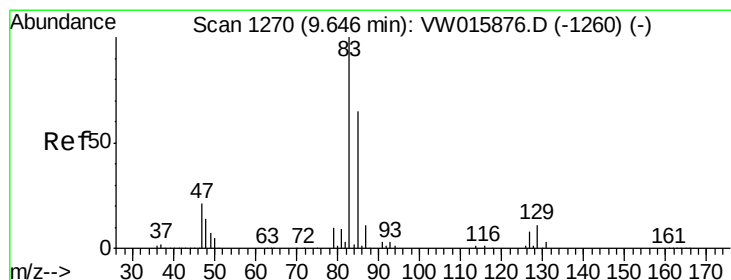
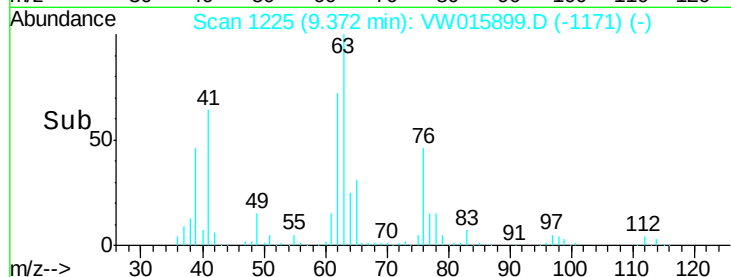
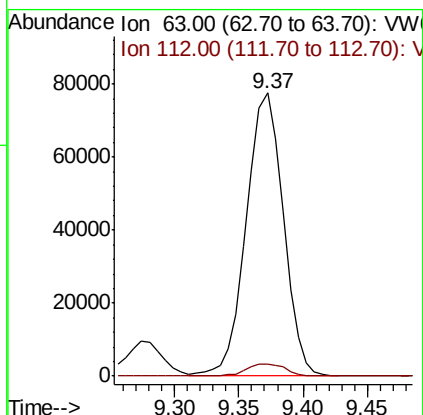
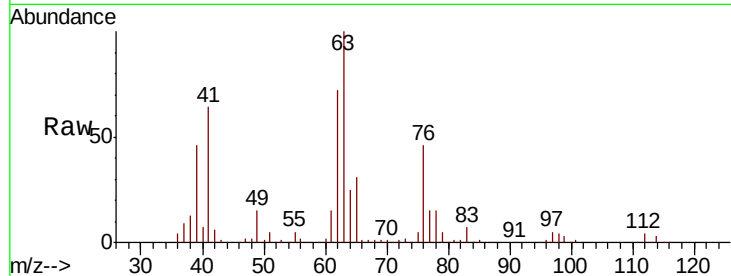




#40  
 1,2-Dichloropropane  
 Concen: 25.944 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

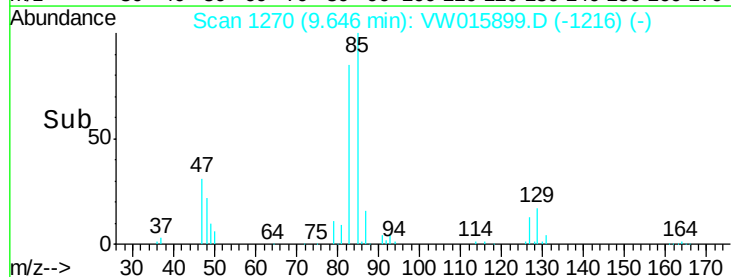
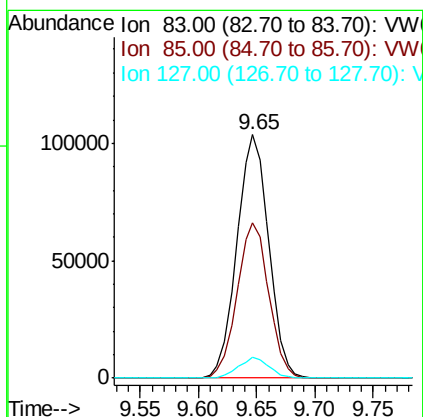
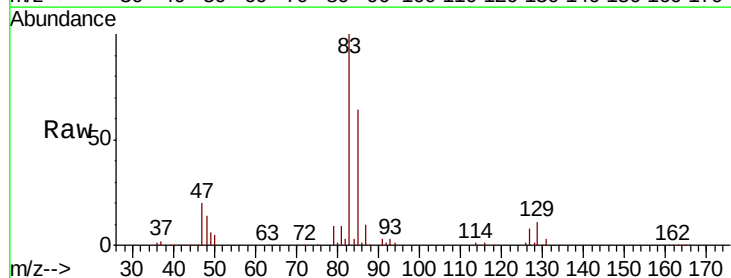
Instrument :  
 MSVOA\_W  
 ClientSampled :

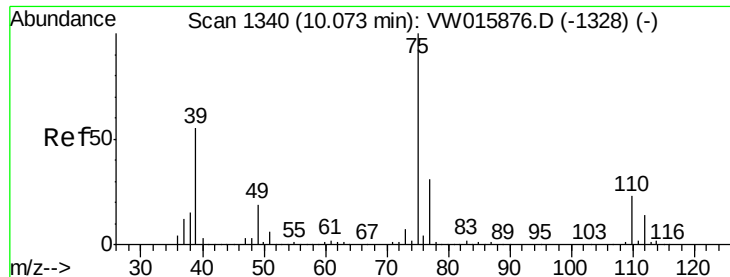
Tot Ion: 63 Resp: 155258  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.7 5.5



#41  
 Bromodichloromethane  
 Concen: 25.591 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

Tgt Ion: 83 Resp: 197775  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 43.7 81.1  
 127 8.4 6.5 9.7





#42

cis-1,3-Dichloropropene

Concen: 26.088 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

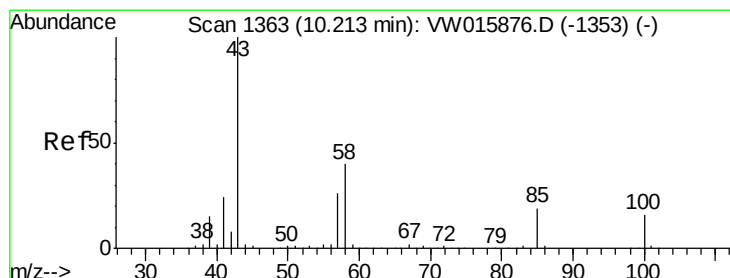
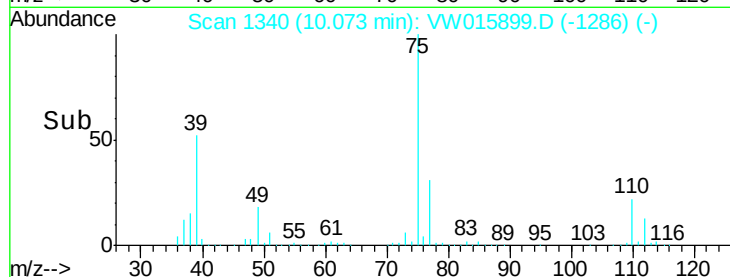
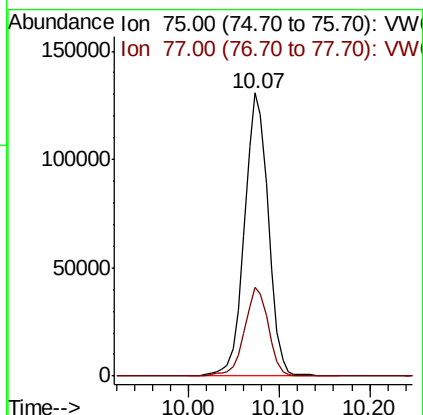
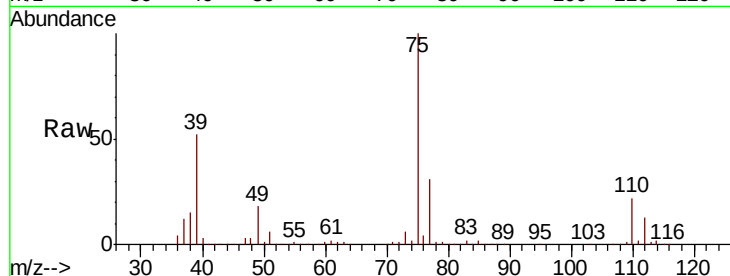
ClientSampled :

Tot Ion: 75 Resp: 237769

Ion Ratio Lower Upper

75 100

77 31.2 22.2 41.2



#43

4-Methyl-2-pentanone

Concen: 48.125 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

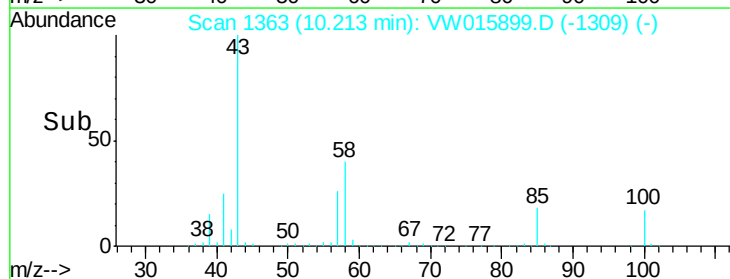
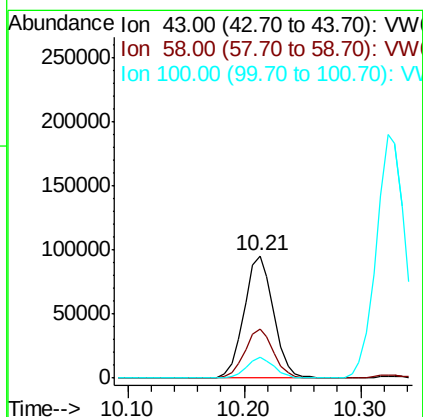
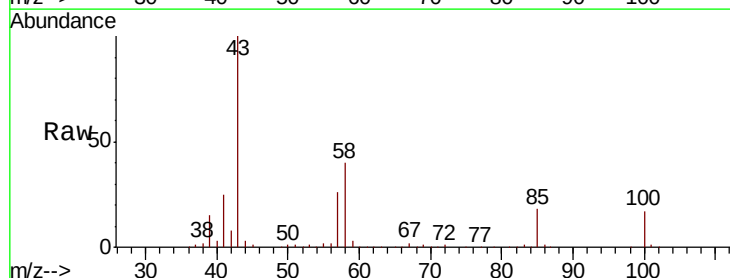
Tgt Ion: 43 Resp: 168097

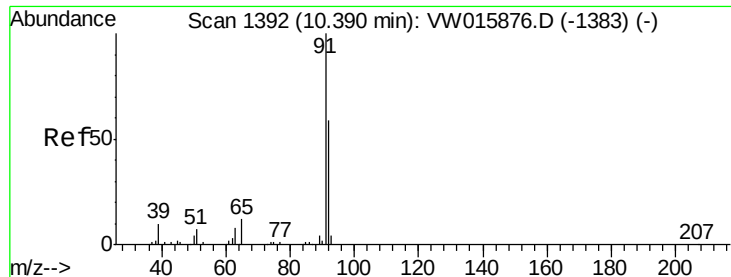
Ion Ratio Lower Upper

43 100

58 39.3 31.0 46.4

100 16.1 12.6 19.0





#44

Toluene

Concen: 26.642 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

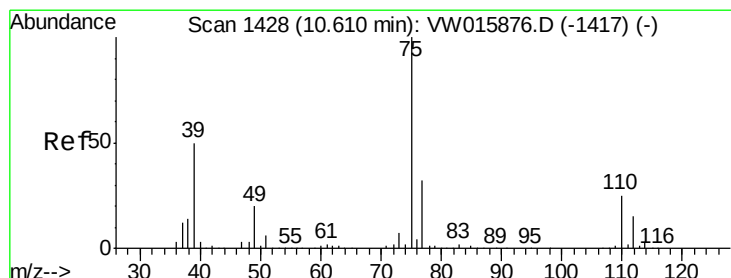
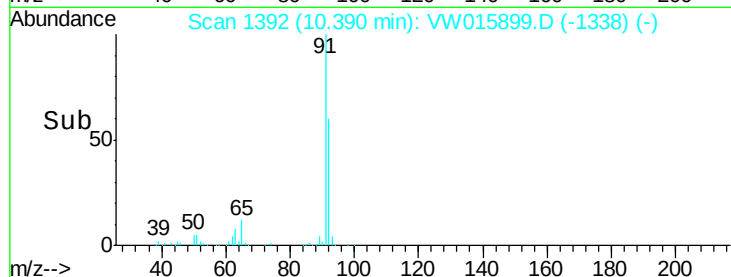
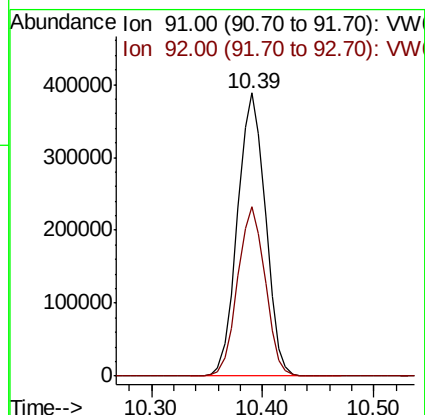
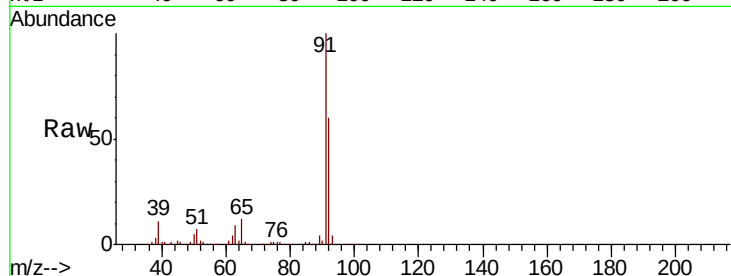
ClientSampleId :

Tot Ion: 91 Resp: 674979

Ion Ratio Lower Upper

91 100

92 59.7 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 25.451 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW015899.D

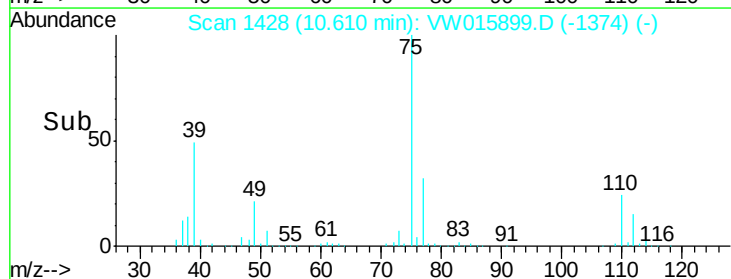
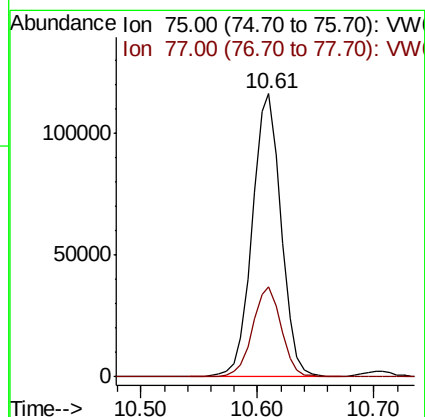
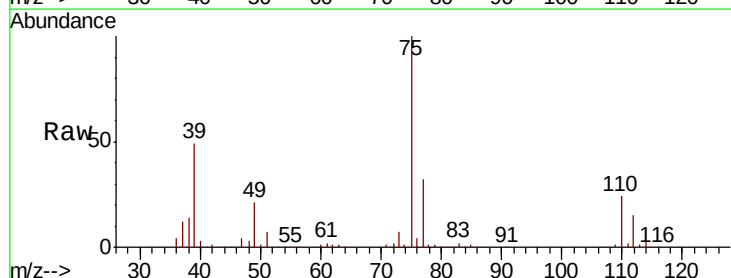
Acq: 22 Jul 2020 09:57

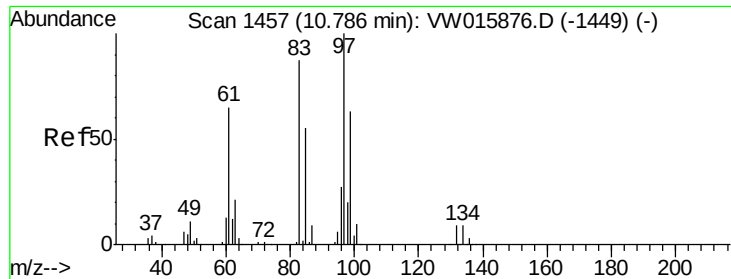
Tgt Ion: 75 Resp: 201065

Ion Ratio Lower Upper

75 100

77 31.7 22.5 41.9

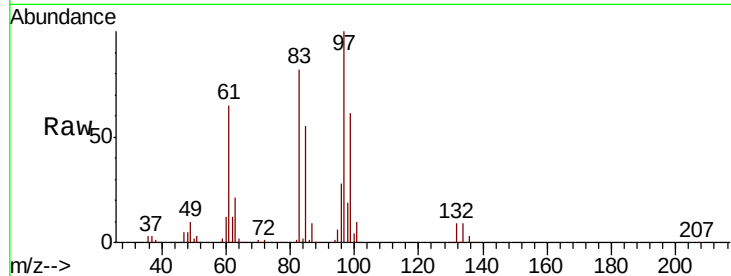




#46  
1,1,2-Trichloroethane  
Concen: 25.297 ug/L  
RT: 10.79 min Scan# 1457  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Instrument :  
MSVOA\_W  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 108861 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 81.8  | 60.6  | 112.6  |
| 85       | 54.7  | 38.9  | 72.2   |
| 99       | 61.1  | 43.1  | 80.1   |



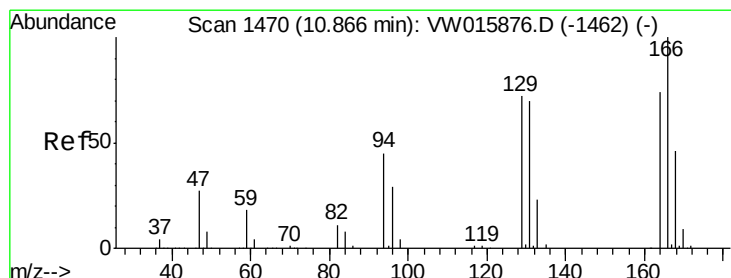
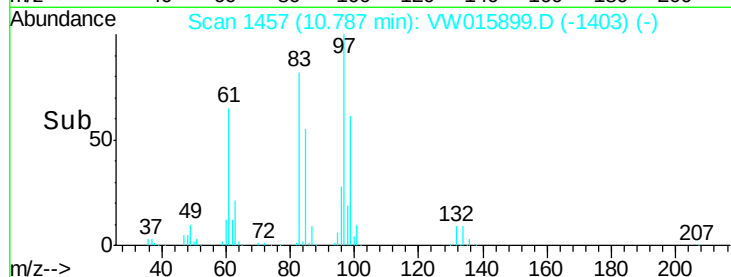
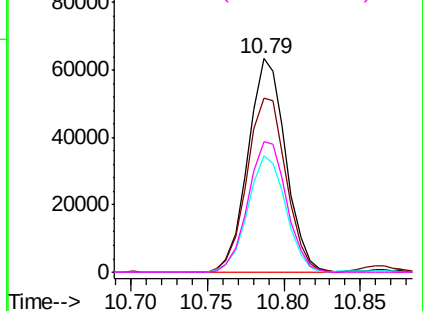
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

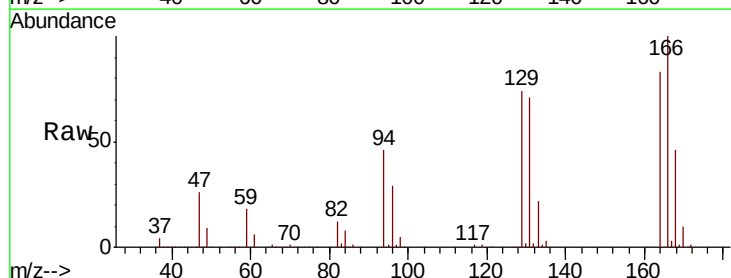
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47  
Tetrachloroethene  
Concen: 26.865 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 133253 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.1  | 70.0  | 130.0  |
| 131      | 85.4  | 67.3  | 124.9  |
| 166      | 120.7 | 88.5  | 164.3  |



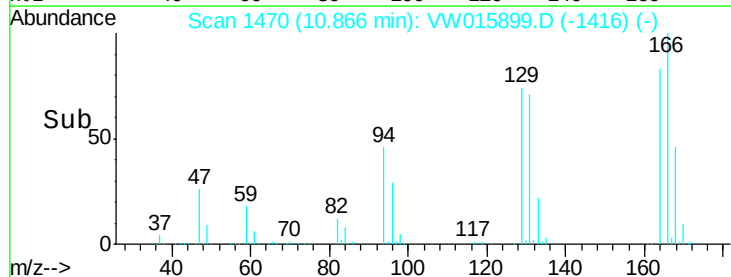
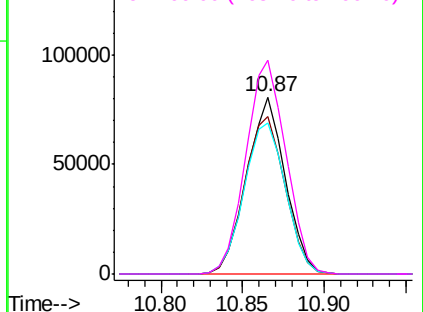
Abundance

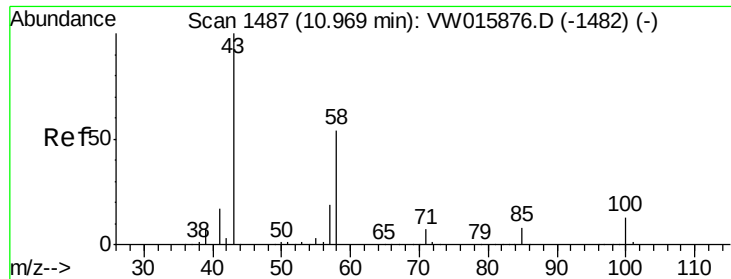
Ion 164.00 (163.70 to 164.70): V

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

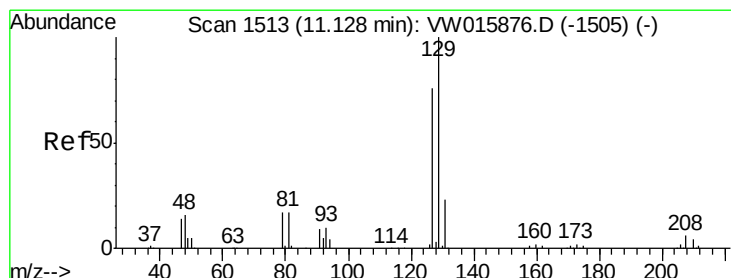
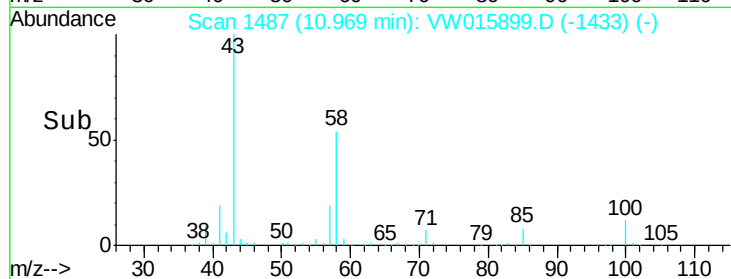
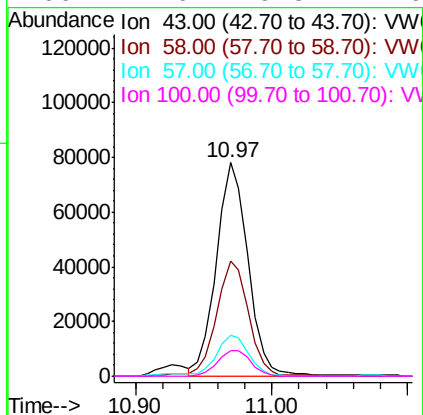
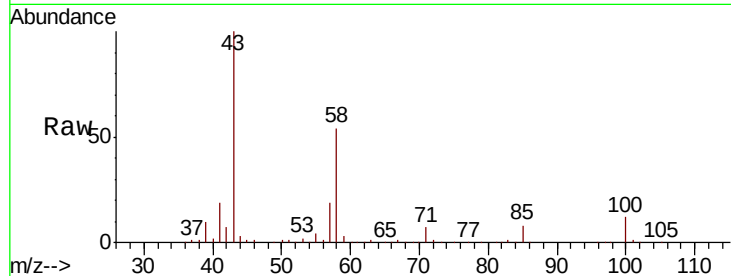




#49  
2-Hexanone  
Concen: 51.079 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

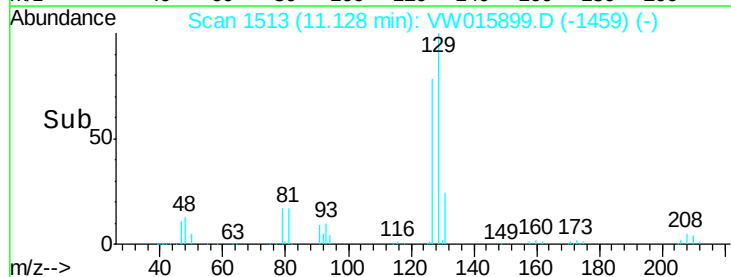
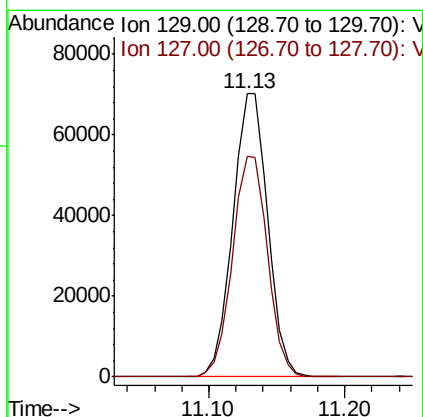
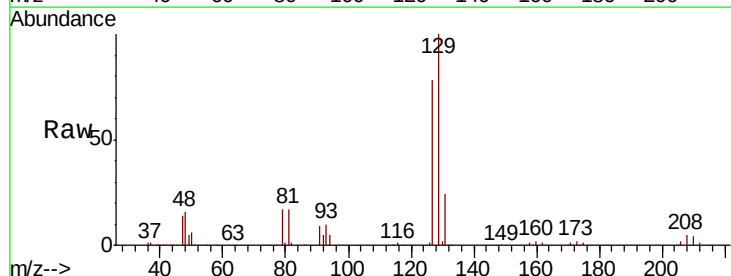
Instrument :  
MSVOA\_W  
ClientSampled :

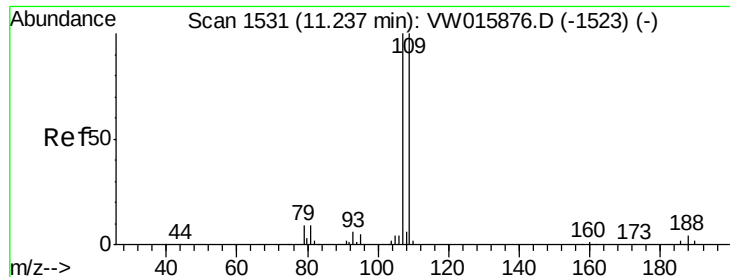
Tot Ion: 43 Resp: 126610  
Ion Ratio Lower Upper  
43 100  
58 55.3 42.4 63.6  
57 19.4 15.6 23.4  
100 12.6 9.8 14.6



#50  
Dibromochloromethane  
Concen: 25.224 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion: 129 Resp: 125668  
Ion Ratio Lower Upper  
129 100  
127 78.1 53.8 100.0





#51

1,2-Dibromoethane

Concen: 24.432 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampleId :

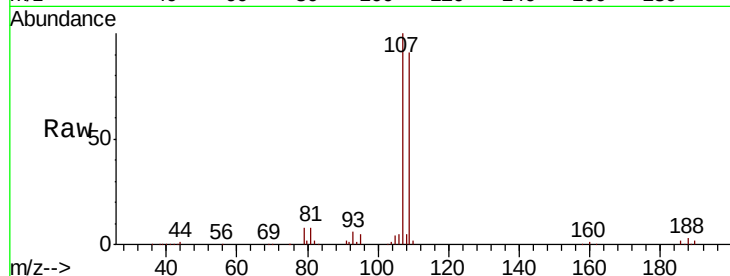
Tot Ion:107 Resp: 100580

Ion Ratio Lower Upper

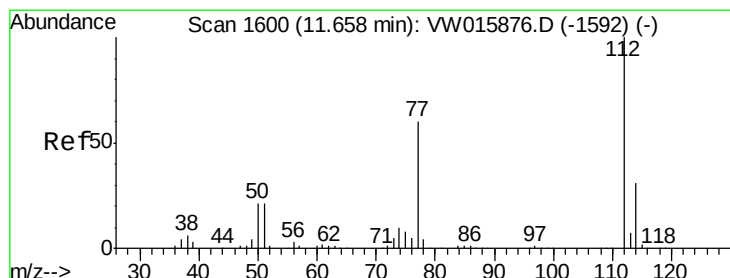
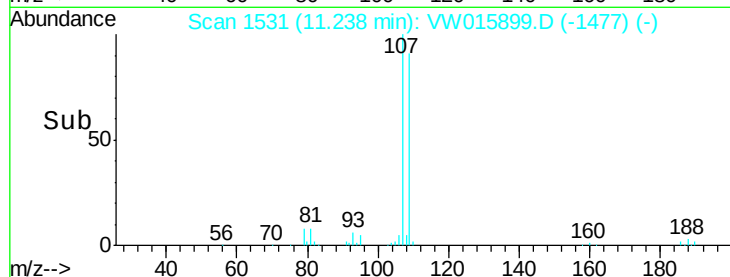
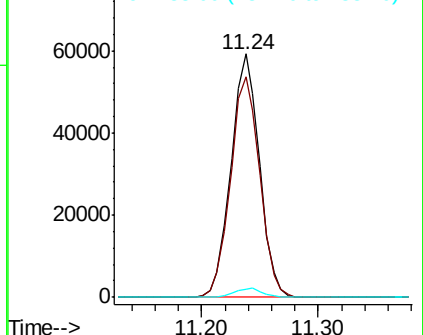
107 100

109 90.6 66.9 124.3

188 3.4 3.2 4.8



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: 25.819 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

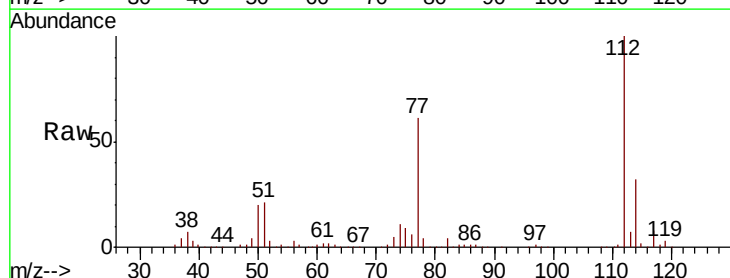
Tgt Ion:112 Resp: 419167

Ion Ratio Lower Upper

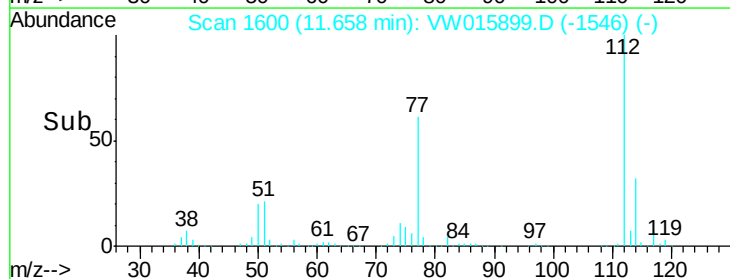
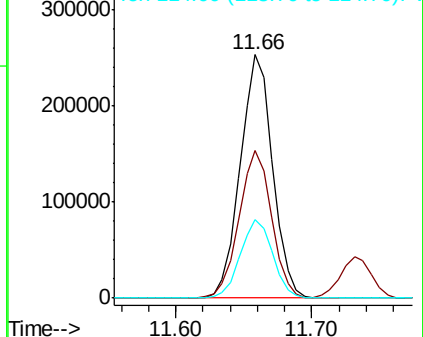
112 100

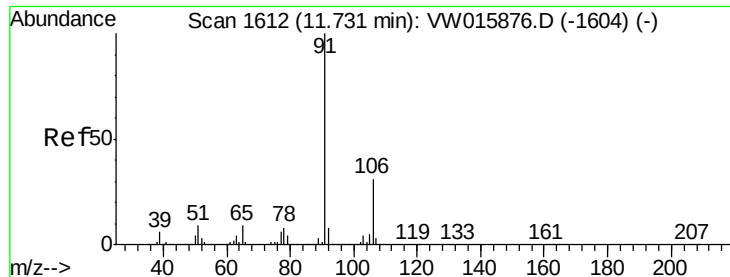
77 60.7 47.8 71.6

114 32.4 22.1 41.1



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

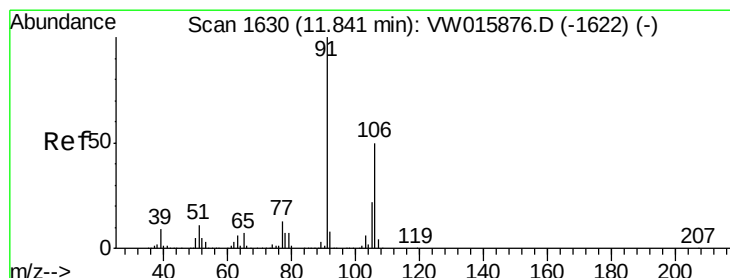
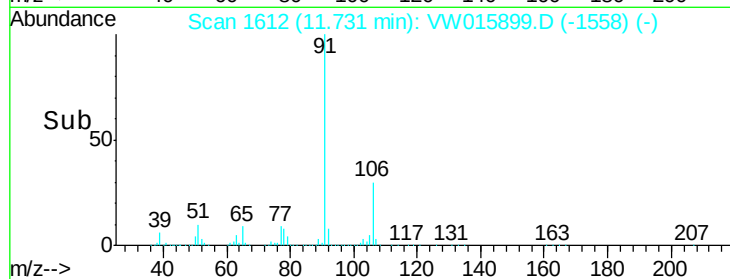
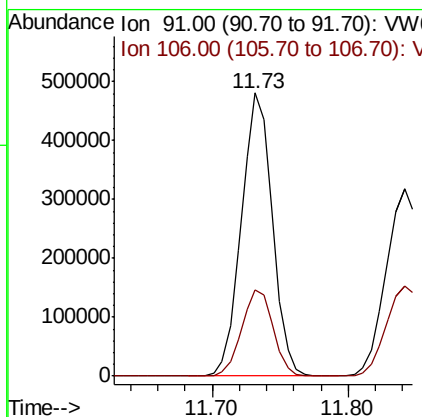
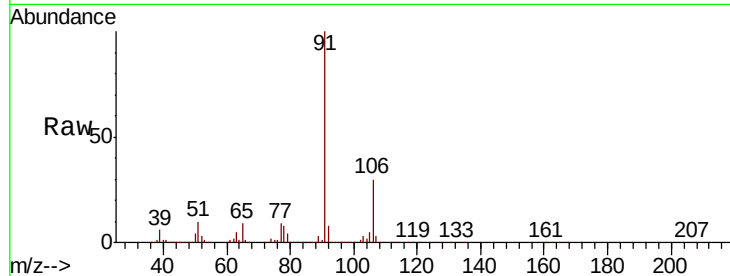




#53  
Ethylbenzene  
Concen: 26.885 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

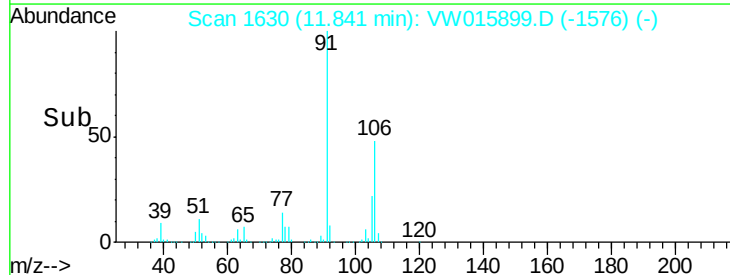
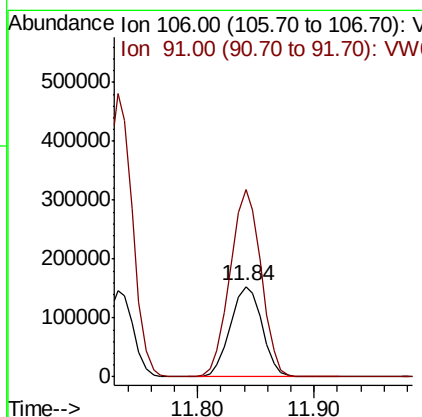
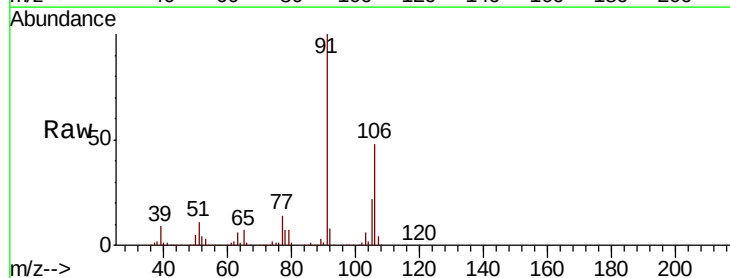
Instrument :  
MSVOA\_W  
ClientSampleId :

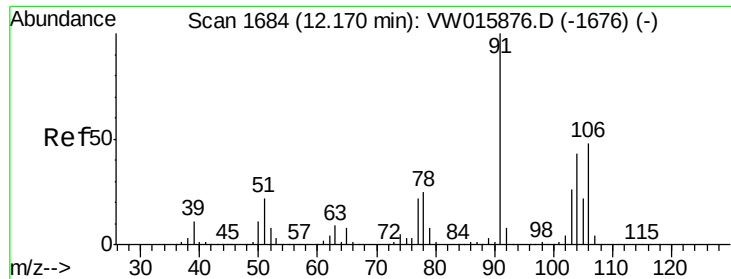
Tot Ion: 91 Resp: 765937  
Ion Ratio Lower Upper  
91 100  
106 30.4 22.4 41.6



#54  
m,p-Xylene  
Concen: 27.336 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Tgt Ion:106 Resp: 291366  
Ion Ratio Lower Upper  
106 100  
91 207.0 144.1 267.5

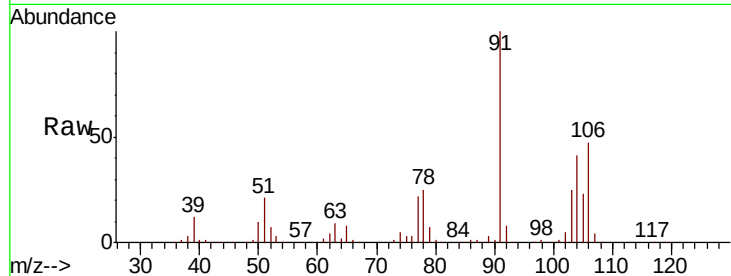




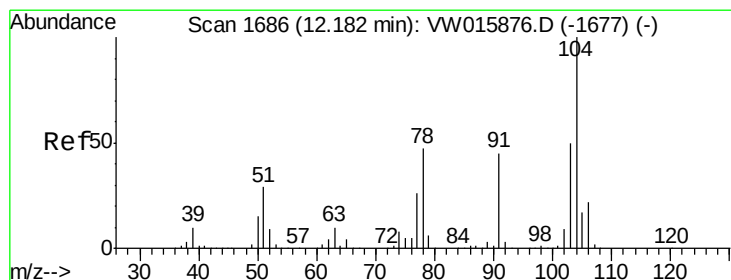
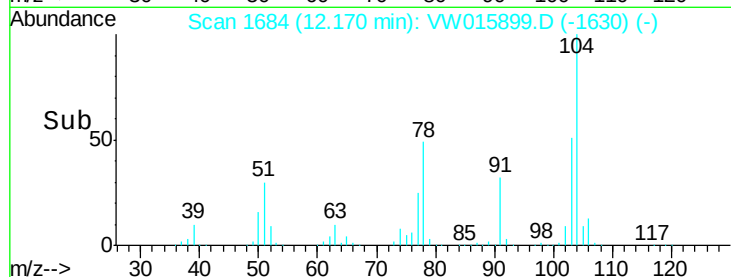
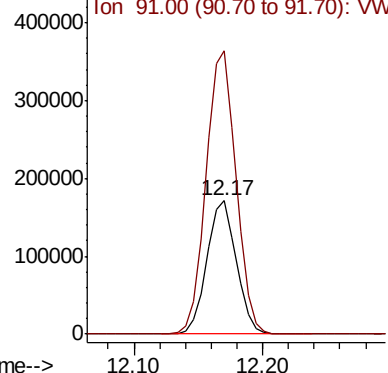
#55  
o-xylene  
Concen: 27.005 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:106 Resp: 271035  
Ion Ratio Lower Upper  
106 100  
91 212.2 146.8 272.6

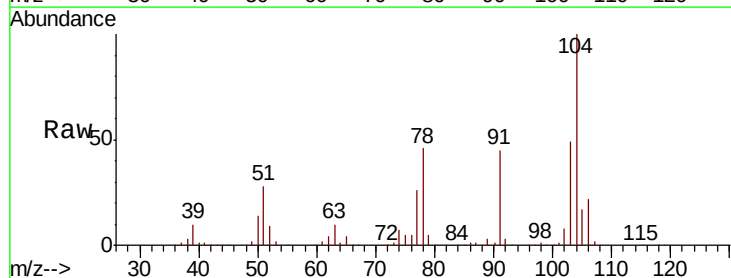


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

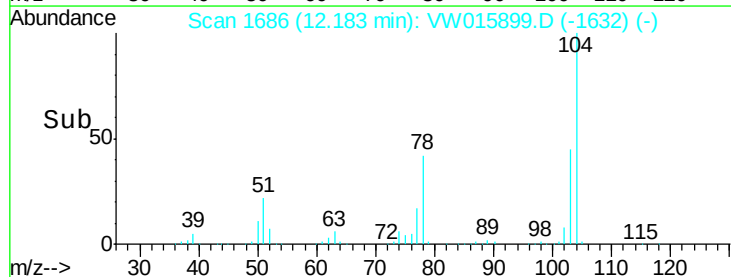
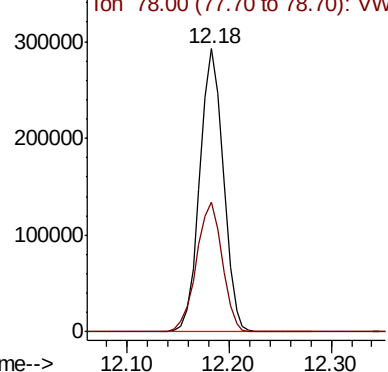


#56  
Styrene  
Concen: 27.396 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW015899.D  
Acq: 22 Jul 2020 09:57

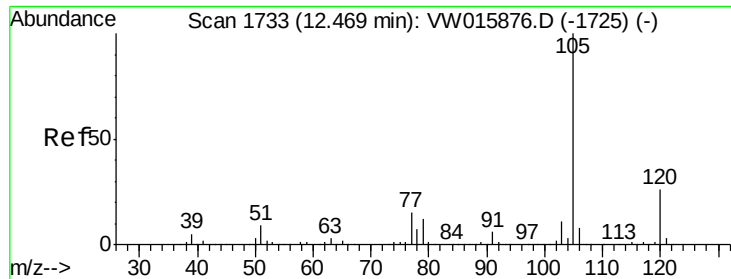
Tgt Ion:104 Resp: 467596  
Ion Ratio Lower Upper  
104 100  
78 45.9 32.0 59.4



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







#57

Isopropylbenzene

Concen: 27.575 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampled :

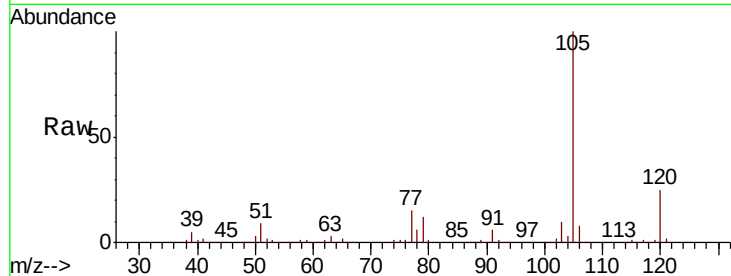
Tot Ion:105 Resp: 753391

Ion Ratio Lower Upper

105 100

120 26.0 20.4 30.6

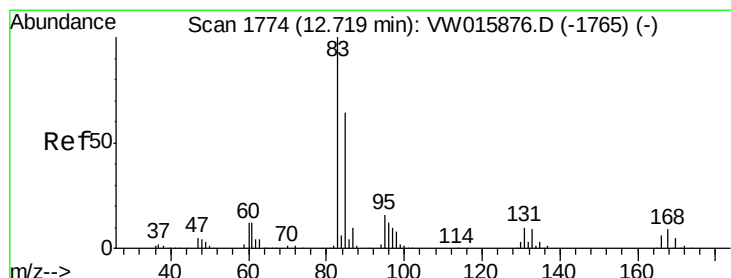
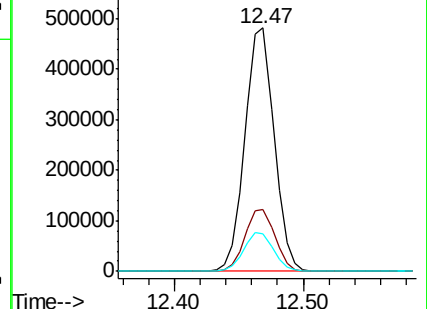
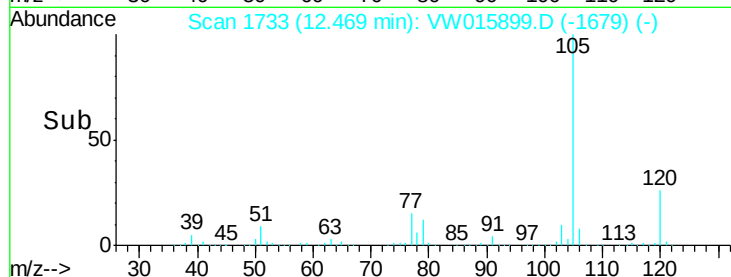
77 16.2 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.736 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

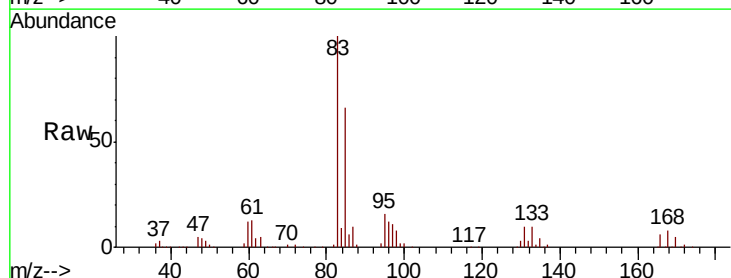
Tgt Ion: 83 Resp: 124995

Ion Ratio Lower Upper

83 100

85 65.6 45.1 83.7

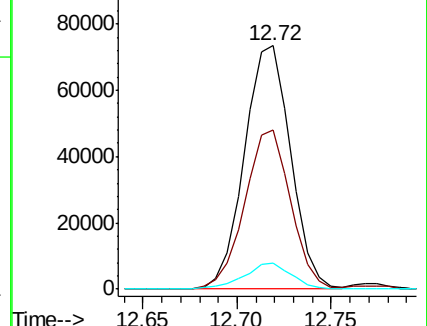
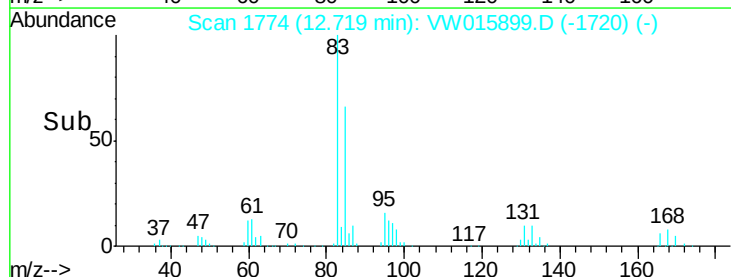
131 10.5 8.2 12.4

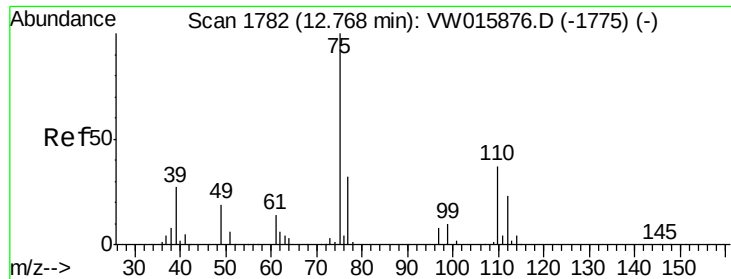


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.387 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

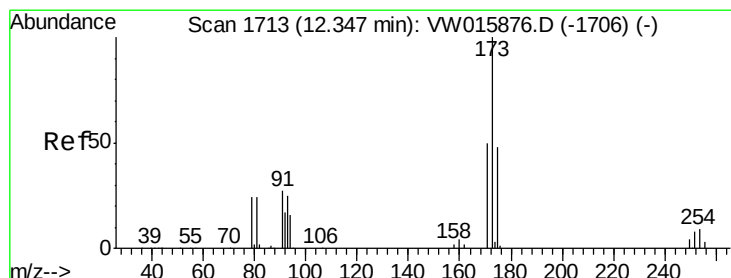
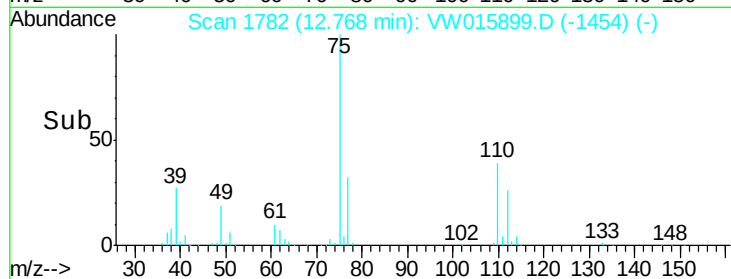
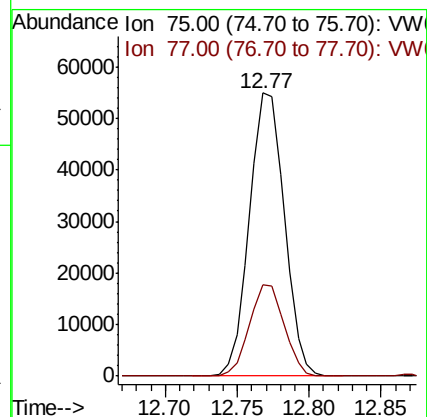
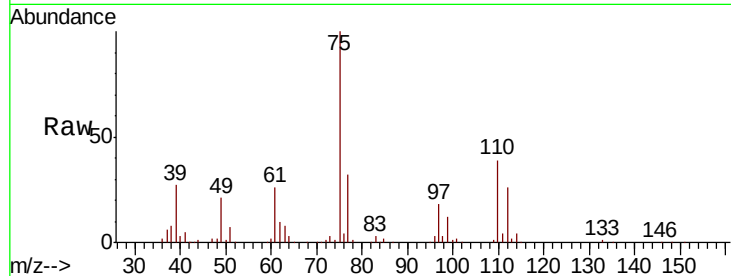
ClientSampleId :

Tot Ion: 75 Resp: 92333

Ion Ratio Lower Upper

75 100

77 32.1 26.0 39.0



#62

Bromoform

Concen: 23.804 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

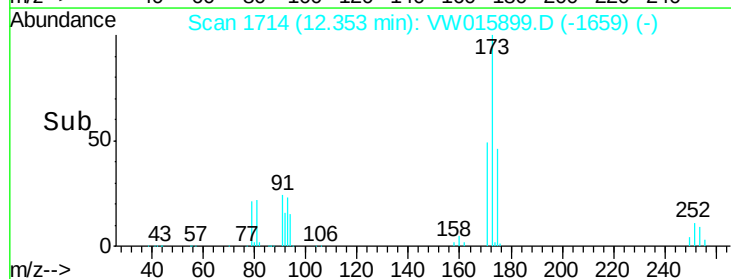
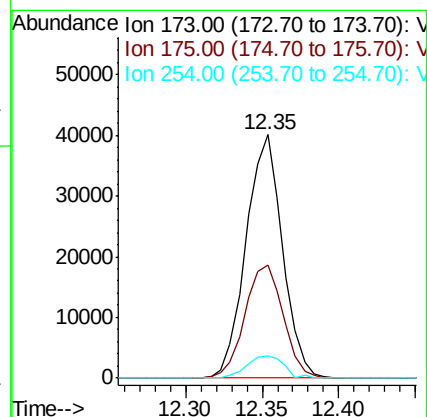
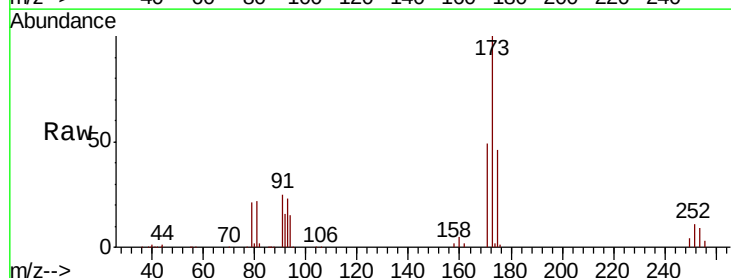
Tgt Ion:173 Resp: 66293

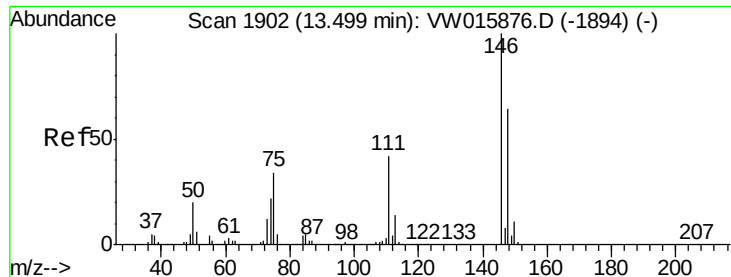
Ion Ratio Lower Upper

173 100

175 48.9 38.7 58.1

254 9.1 7.9 11.9

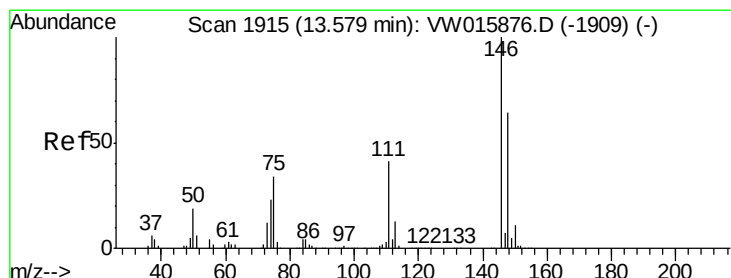
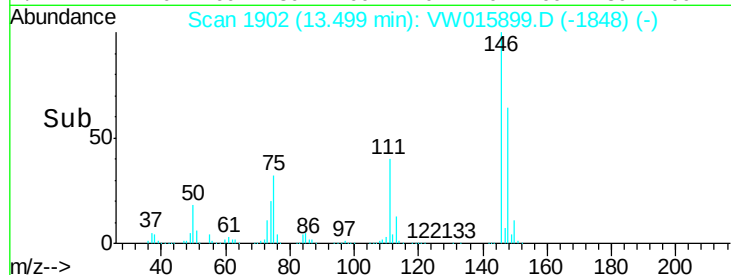
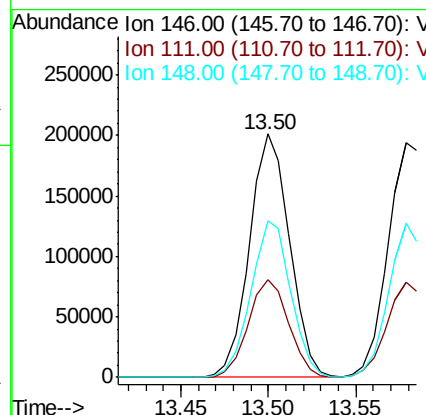
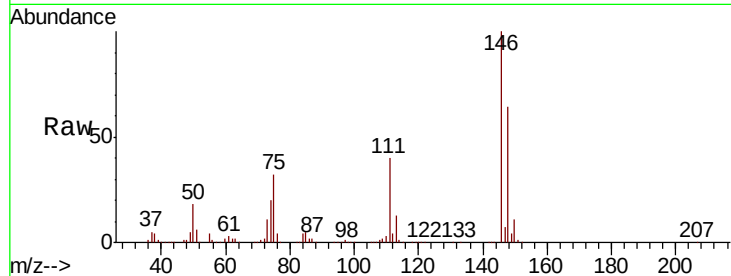




#63  
 1,3-Dichlorobenzene  
 Concen: 26.449 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

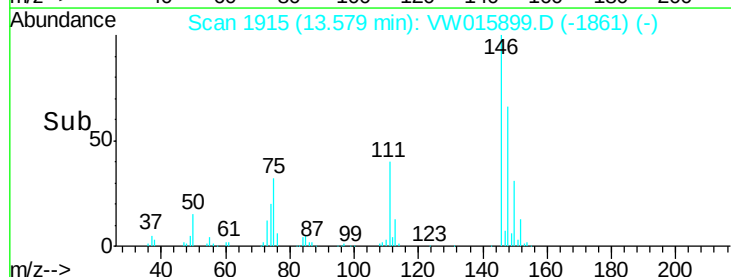
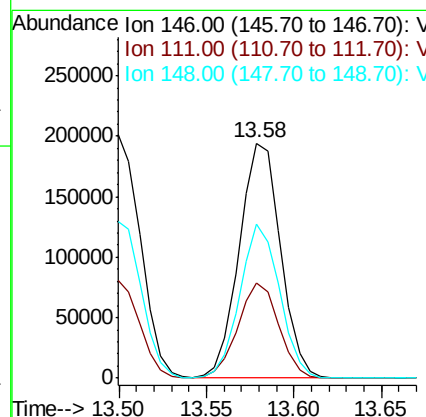
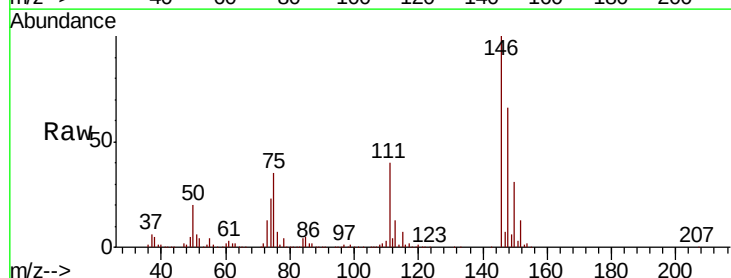
Instrument :  
 MSVOA\_W  
 ClientSampleId :

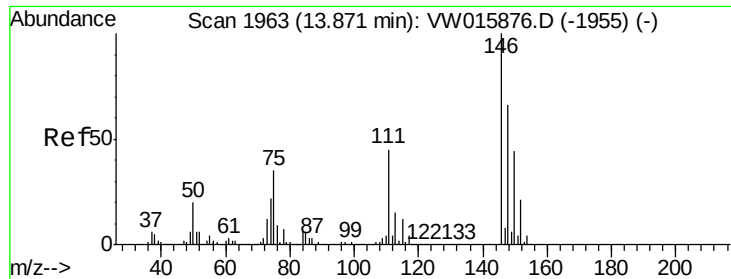
Tot Ion:146 Resp: 320479  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 27.9 51.7  
 148 64.4 43.2 80.2



#64  
 1,4-Dichlorobenzene  
 Concen: 25.902 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

Tgt Ion:146 Resp: 318523  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 29.3 54.3  
 148 65.6 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 25.435 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampleId :

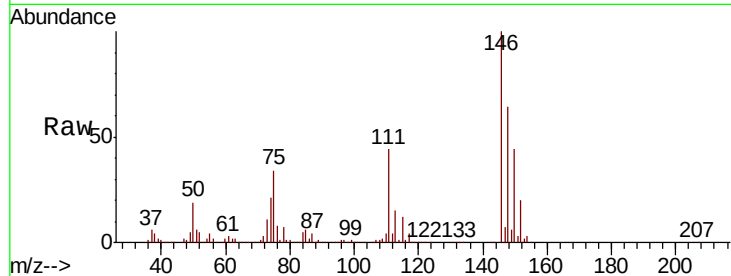
Tot Ion:146 Resp: 279939

Ion Ratio Lower Upper

146 100

111 43.8 32.9 49.3

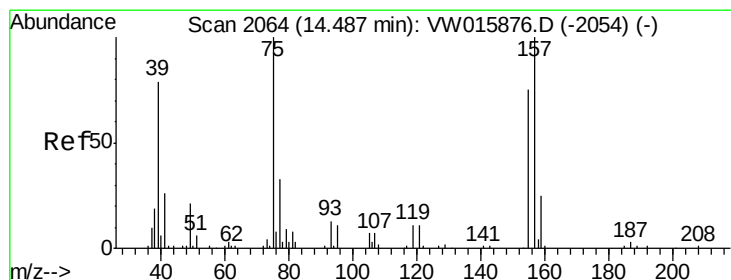
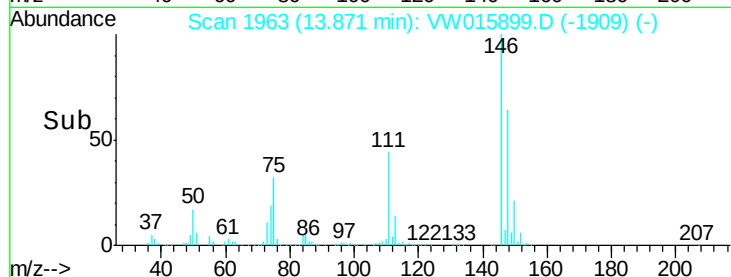
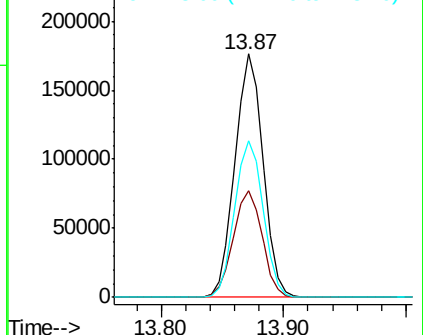
148 64.5 48.8 73.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 22.919 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

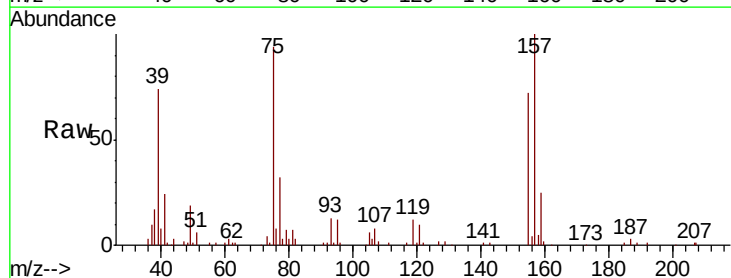
Tgt Ion: 75 Resp: 18986

Ion Ratio Lower Upper

75 100

157 106.6 83.0 124.4

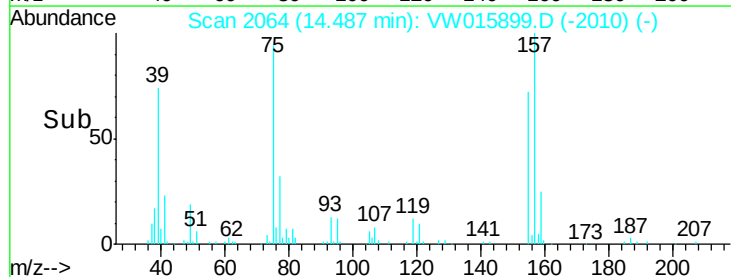
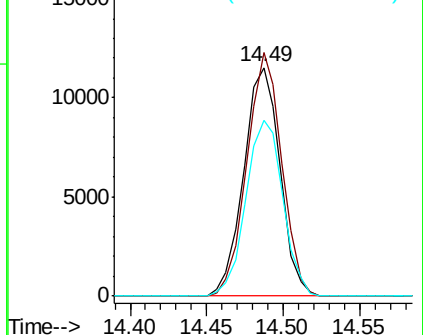
155 77.1 66.9 100.3

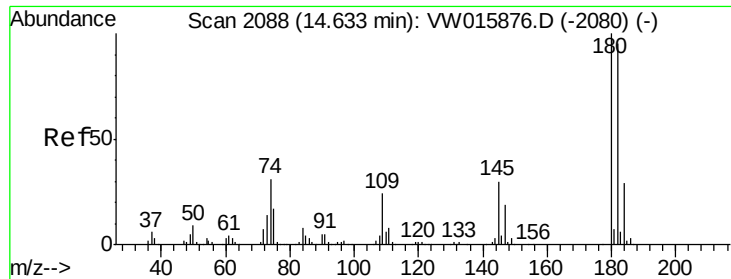


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

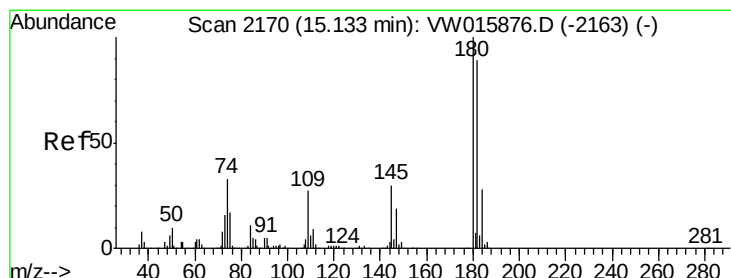
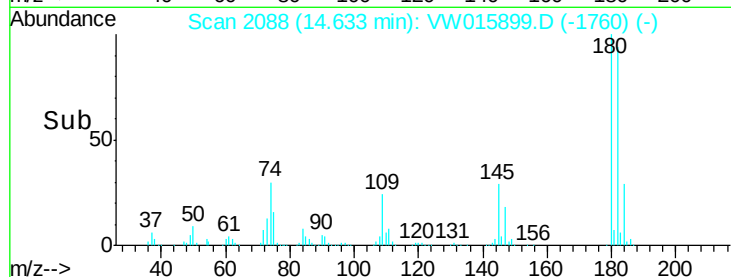
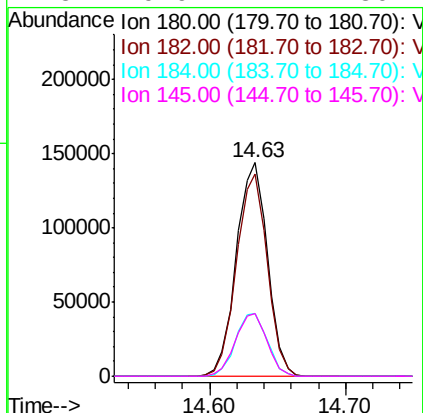
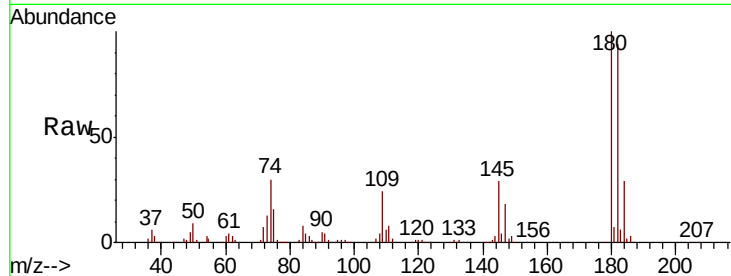




#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.855 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

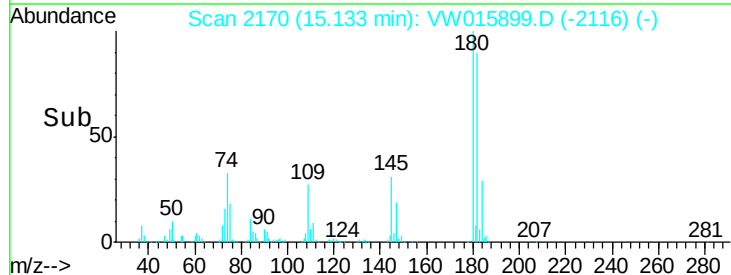
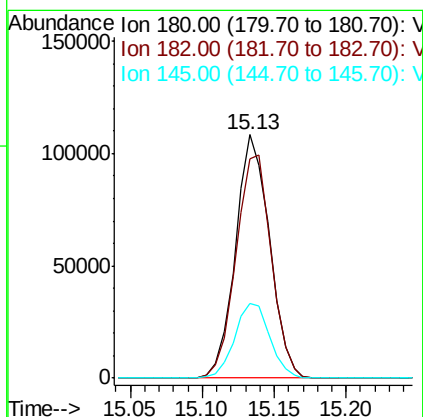
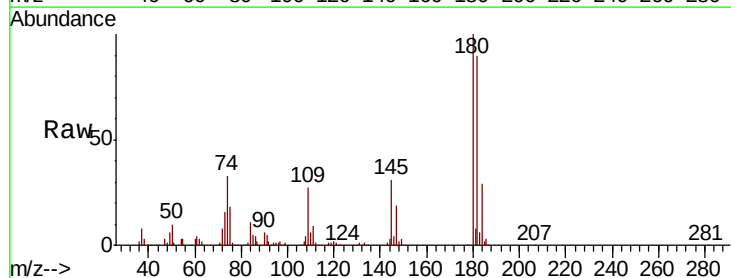
Instrument :  
 MSVOA\_W  
 ClientSampled :

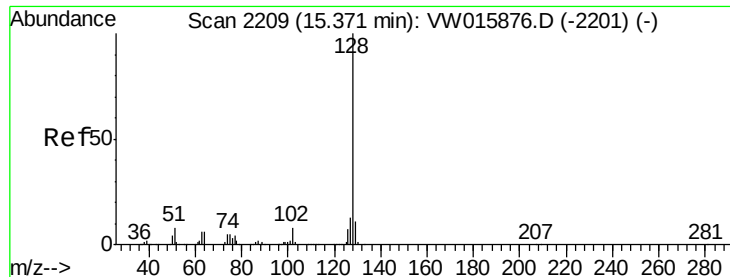
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.7  | 75.4  | 113.0 |
| 184     | 30.2  | 24.6  | 37.0  |
| 145     | 29.9  | 24.1  | 36.1  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.282 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW015899.D  
 Acq: 22 Jul 2020 09:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 76.0  | 114.0 |
| 145     | 31.5  | 24.3  | 36.5  |





#69

Naphthalene

Concen: 24.964 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

Instrument :

MSVOA\_W

ClientSampleId :

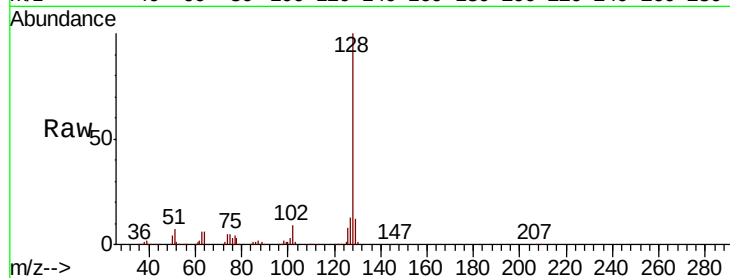
Tot Ion:128 Resp: 318259

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

127 13.2 10.5 15.7

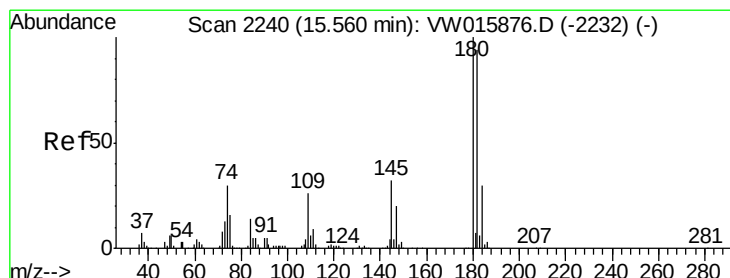
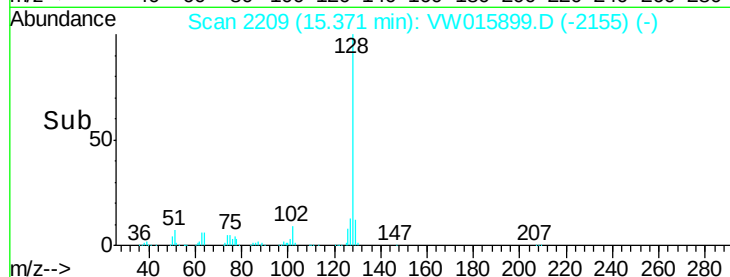
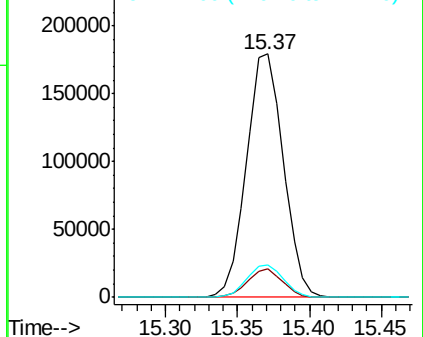


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.470 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW015899.D

Acq: 22 Jul 2020 09:57

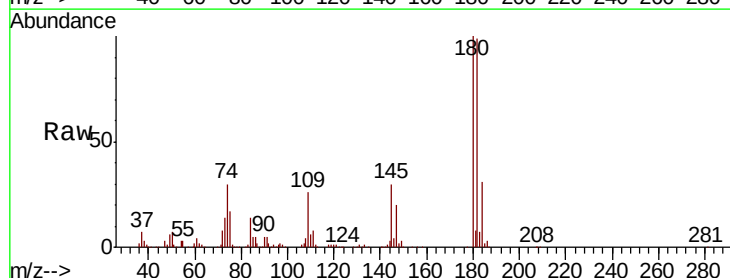
Tgt Ion:180 Resp: 159602

Ion Ratio Lower Upper

180 100

182 95.2 74.0 111.0

145 32.0 25.9 38.9



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

