

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW011720\  
 Data File : VW014679.D  
 Acq On : 17 Jan 2020 10:07  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02518

Quant Time: Jan 17 14:28:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 17 10:45:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 944316   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 828301   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 395125   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 273782   | 20.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.28%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 229922   | 23.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.76%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 563428   | 23.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 92.56%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 151661   | 47.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.76%  |
| 24) Chloroform-d               | 7.64   | 84    | 522683   | 24.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.24%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 260381   | 23.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.36%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1103361  | 25.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.20% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 333260   | 25.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.64% |
| 37) Toluene-d8                 | 10.32  | 98    | 1009159  | 25.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.08% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 130409   | 23.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 95.36%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 114803   | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.40% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 242747   | 24.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 325492   | 25.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.00% |

## Target Compounds

|                                |      |     |        |       |      | Qvalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 184072 | 21.79 | ug/L | 100    |
| 3) Chloromethane               | 2.21 | 50  | 204264 | 21.39 | ug/L | 99     |
| 5) Vinyl chloride              | 2.36 | 62  | 328107 | 24.15 | ug/L | 99     |
| 6) Bromomethane                | 2.78 | 94  | 190028 | 23.95 | ug/L | 100    |
| 8) Chloroethane                | 2.92 | 64  | 186668 | 24.57 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 194134 | 27.01 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 301817 | 24.46 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 293136 | 24.26 | ug/L | 88     |
| 13) Acetone                    | 4.12 | 43  | 173866 | 39.64 | ug/L | 96     |
| 14) Carbon disulfide           | 4.38 | 76  | 860461 | 23.07 | ug/L | 97     |
| 15) Methyl Acetate             | 4.67 | 43  | 136487 | 23.06 | ug/L | 100    |
| 16) Methylene chloride         | 4.91 | 84  | 297221 | 19.30 | ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 370496 | 23.82 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 300632 | 23.62 | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 545250 | 23.70 | ug/L | 99     |
| 21) 2-Butanone                 | 7.16 | 43  | 203941 | 43.34 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 319299 | 23.83 | ug/L | 97     |

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 Sample : VSTDCCC025  
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 ALS Vial : 1 Sample Multiplier: 1

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 VSTD02518

Quant Time: Jan 17 14:28:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 17 10:45:13 2020  
 Response via : Initial Calibration

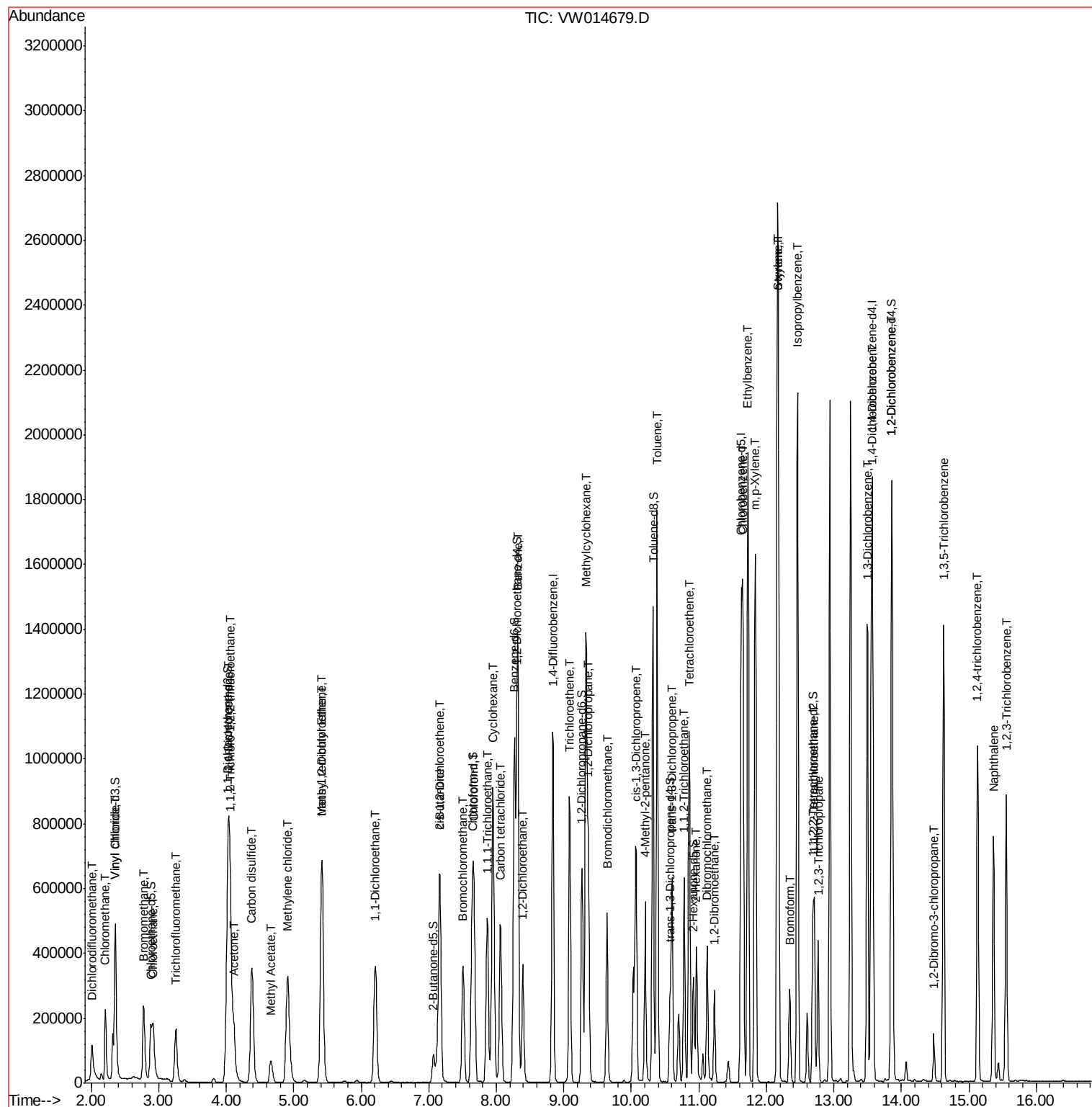
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 136209   | 23.48 | ug/L  | 98       |
| 25) Chloroform                 | 7.67  | 83   | 511803   | 23.26 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 314707   | 22.03 | ug/L  | 98       |
| 30) Cyclohexane                | 7.95  | 56   | 542801   | 25.62 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 416330   | 24.50 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 384169   | 24.27 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 1235614  | 24.79 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 312379   | 24.28 | ug/L  | 98       |
| 36) Methylcyclohexane          | 9.33  | 83   | 576251   | 25.53 | ug/L  | 98       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 304522   | 24.14 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.64  | 83   | 354969   | 23.39 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 449980   | 23.88 | ug/L  | 97       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 360372   | 44.50 | ug/L  | 99       |
| 44) Toluene                    | 10.38 | 91   | 1302665  | 25.01 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 356595   | 23.66 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 206449   | 23.10 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.86 | 164  | 262298   | 24.28 | ug/L  | 98       |
| 49) 2-Hexanone                 | 10.96 | 43   | 270043   | 48.83 | ug/L  | 100      |
| 50) Dibromochloromethane       | 11.12 | 129  | 239627   | 23.62 | ug/L  | 92       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 197338   | 23.39 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.65 | 112  | 791331   | 24.03 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 1431704  | 25.00 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.83 | 106  | 543069   | 25.06 | ug/L  | 95       |
| 55) o-xylene                   | 12.16 | 106  | 505967   | 24.72 | ug/L  | 97       |
| 56) Styrene                    | 12.18 | 104  | 865344   | 25.11 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 1394498  | 25.61 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 248690   | 22.92 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 185450   | 22.82 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 137103   | 23.22 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 615478   | 24.60 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 615317   | 24.39 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 554570   | 24.73 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 36989    | 22.27 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 466876   | 25.19 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 365577   | 26.32 | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 658051   | 27.44 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 332132   | 26.38 | ug/L  | 99       |

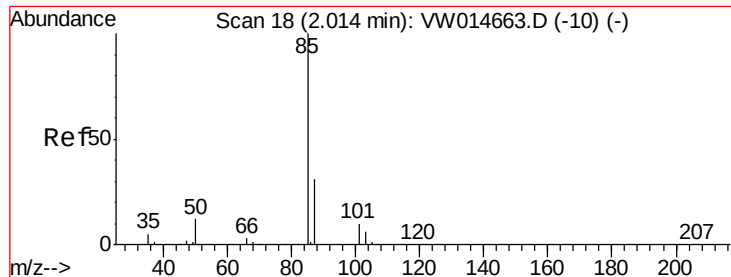
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW011720\  
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Sample : VSTDCCC025  
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Quant Title : VOC Analysis  
QLast Update : Fri Jan 17 10:45:13 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.79 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

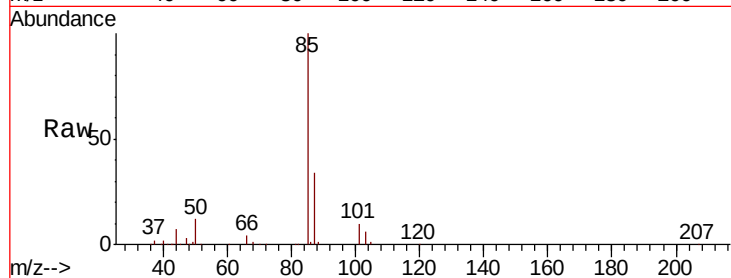
VSTD02518

Tgt Ion: 85 Resp: 184072

Ion Ratio Lower Upper

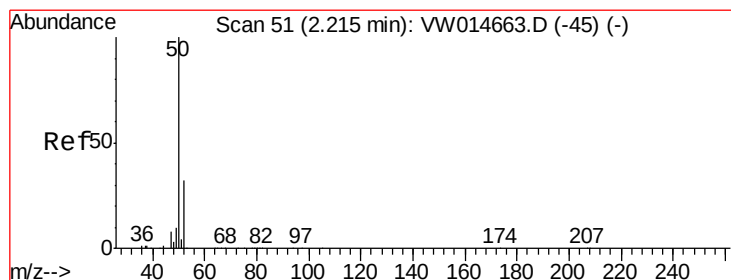
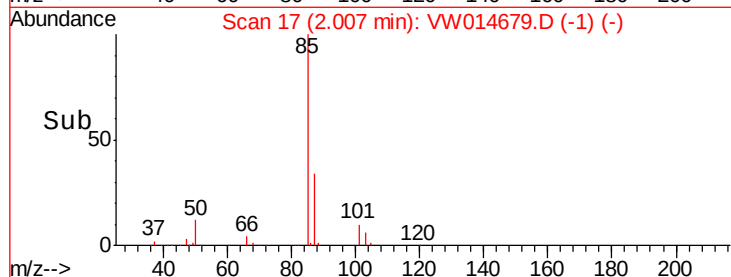
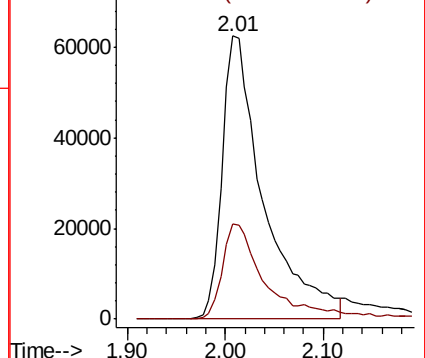
85 100

87 30.9 21.5 39.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.39 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014679.D

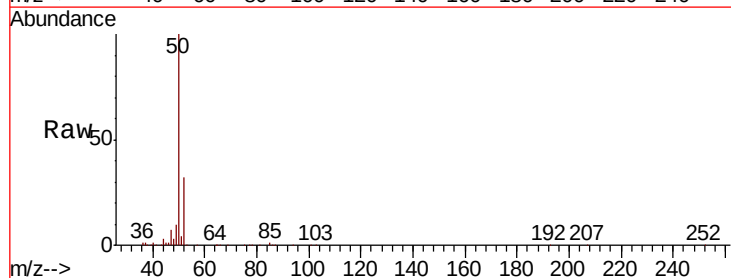
Acq: 17 Jan 2020 10:07

Tgt Ion: 50 Resp: 204264

Ion Ratio Lower Upper

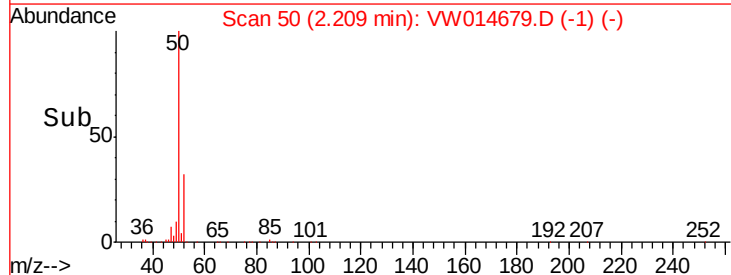
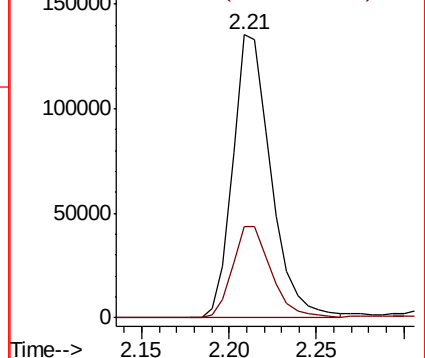
50 100

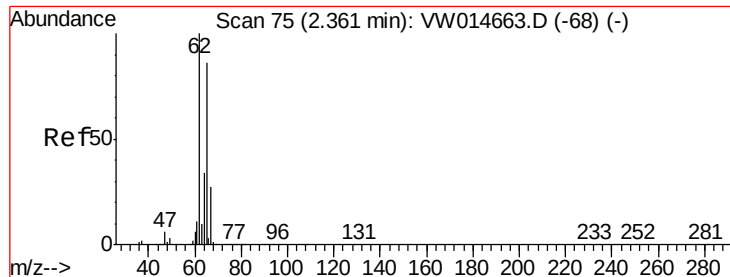
52 32.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.15 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

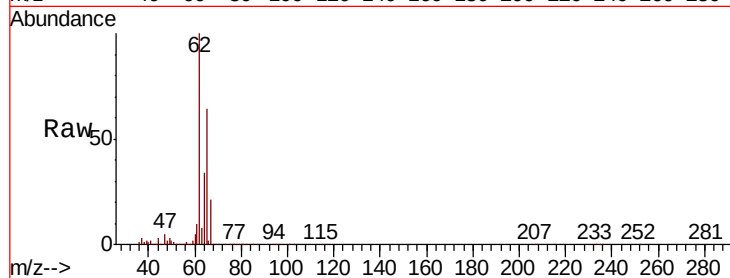
VSTD02518

Tgt Ion: 62 Resp: 328107

Ion Ratio Lower Upper

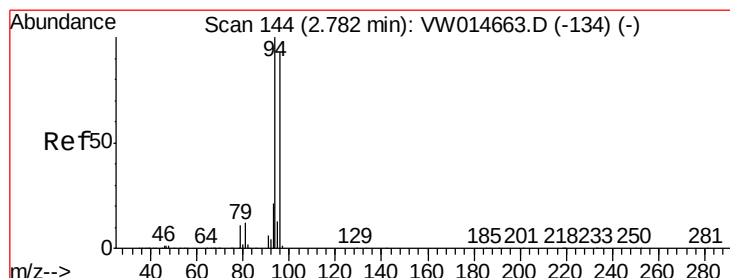
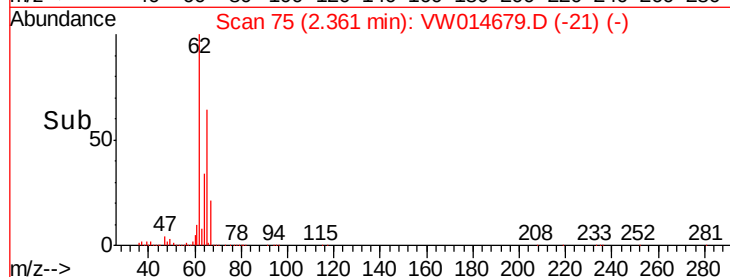
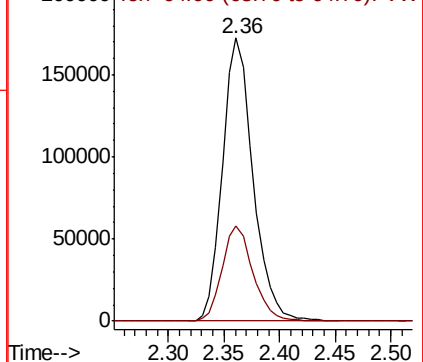
62 100

64 33.8 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 23.95 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014679.D

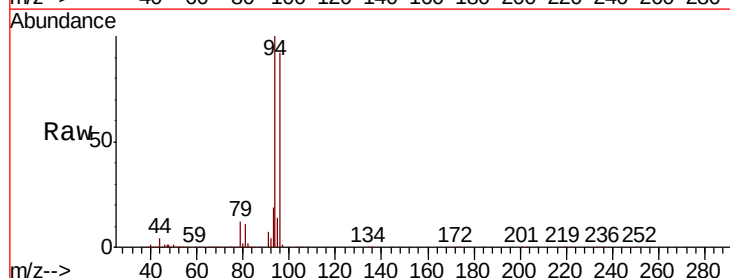
Acq: 17 Jan 2020 10:07

Tgt Ion: 94 Resp: 190028

Ion Ratio Lower Upper

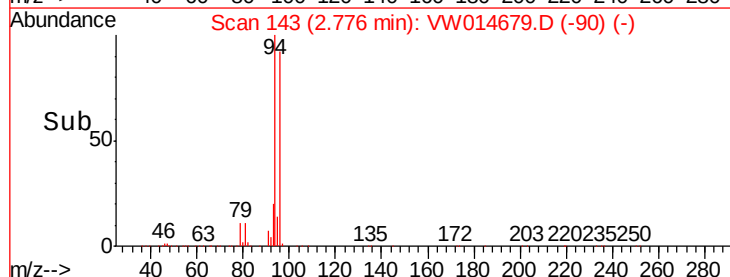
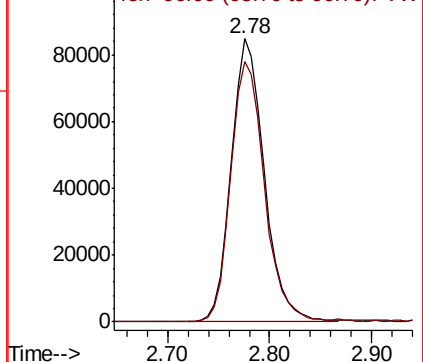
94 100

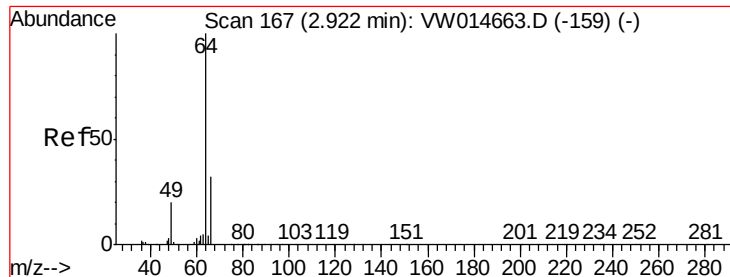
96 93.8 9.4 178.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 24.57 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

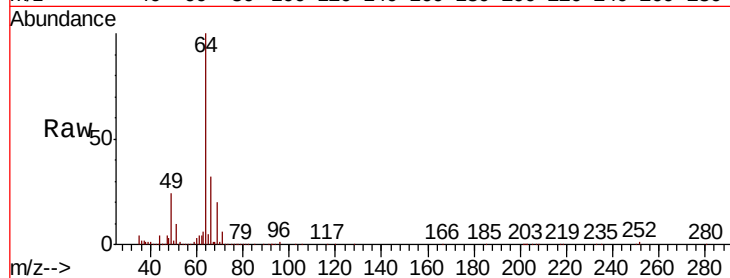
VSTD02518

Tgt Ion: 64 Resp: 186668

Ion Ratio Lower Upper

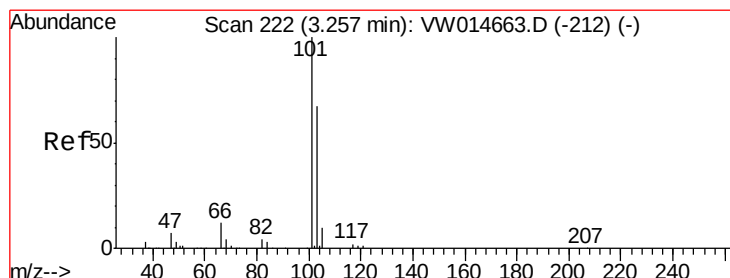
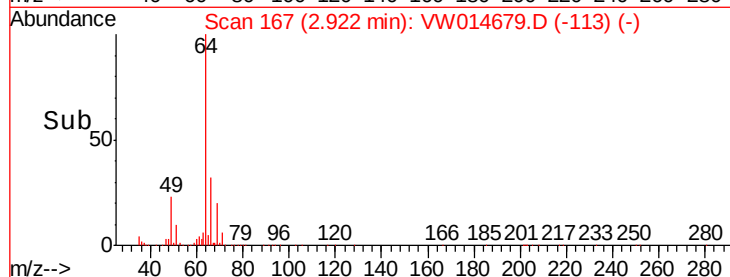
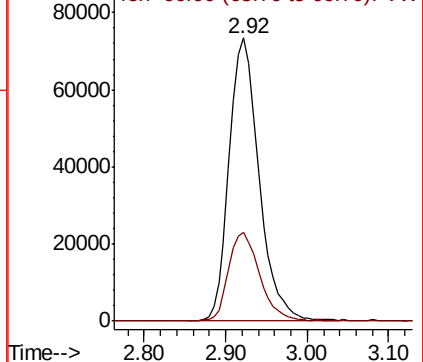
64 100

66 31.5 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 27.01 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014679.D

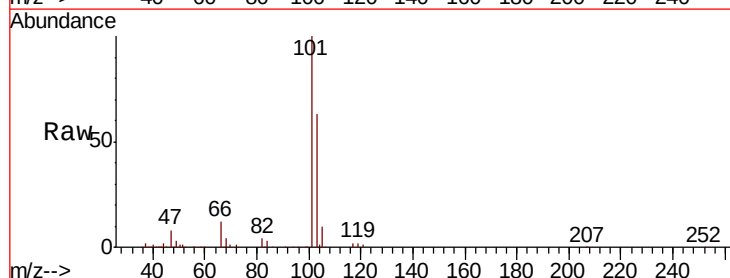
Acq: 17 Jan 2020 10:07

Tgt Ion: 101 Resp: 194134

Ion Ratio Lower Upper

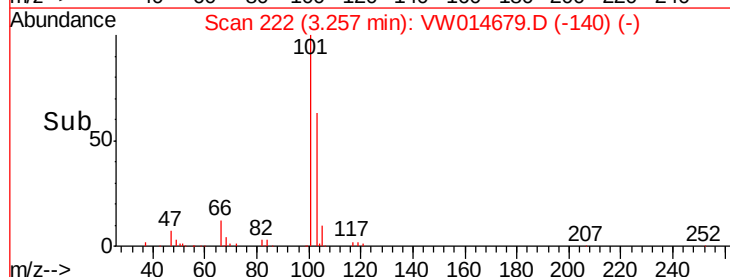
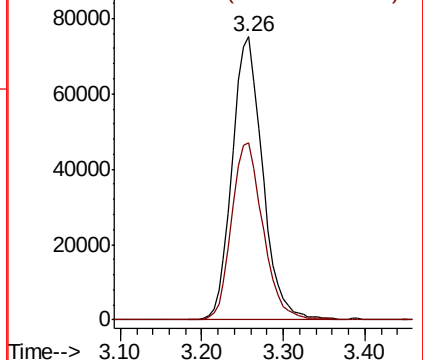
101 100

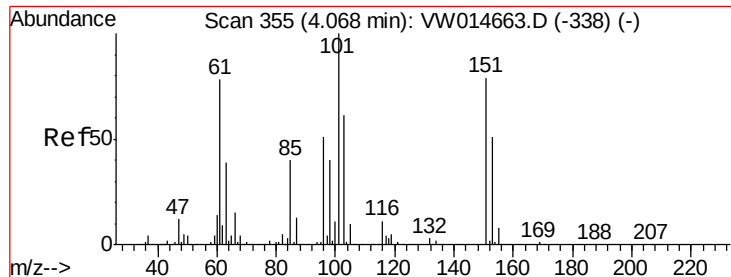
103 64.1 45.5 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 24.46 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

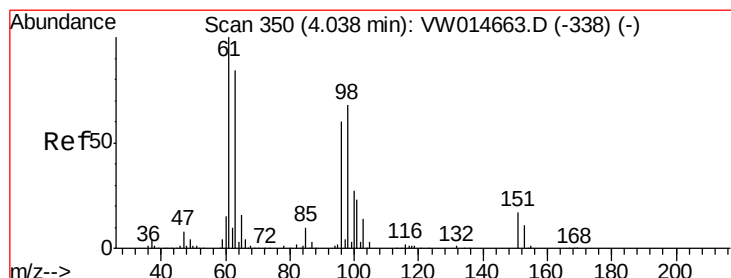
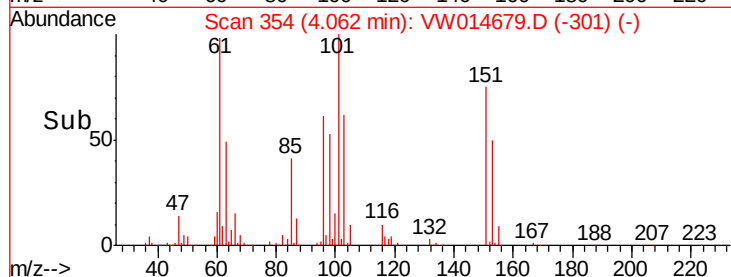
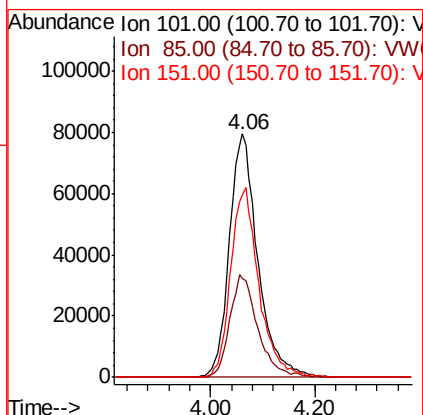
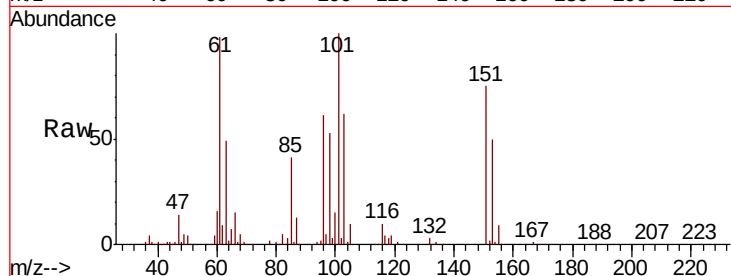
Instrument :

MSVOA\_W

ClientSampled :

VSTD02518

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 301817 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 40.6  | 33.3  | 49.9   |
| 151      | 76.9  | 62.5  | 93.7   |



#12

1,1-Dichloroethene

Concen: 24.26 ug/L

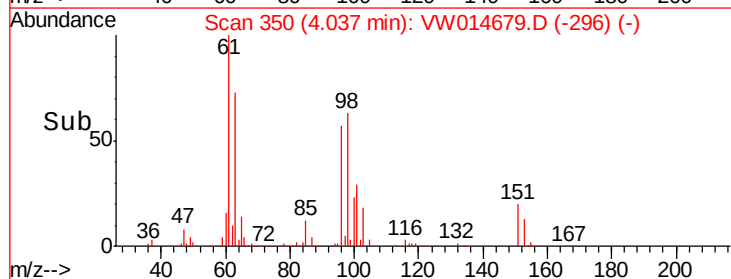
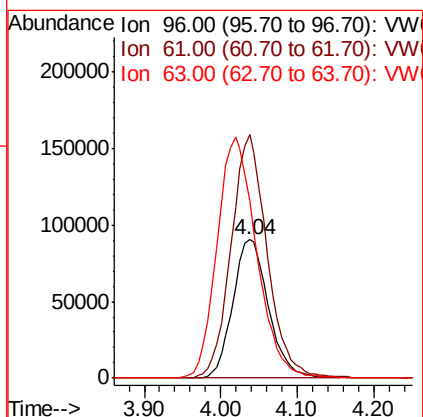
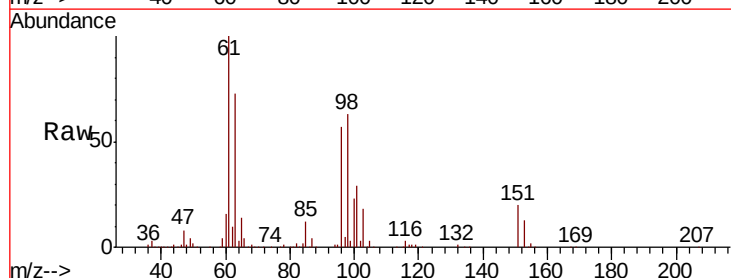
RT: 4.04 min Scan# 350

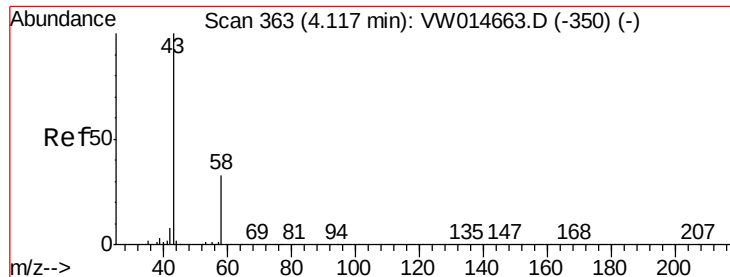
Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 293136 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 175.8 | 114.2 | 212.0  |
| 63       | 127.9 | 78.6  | 146.0  |





#13

Acetone

Concen: 39.64 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

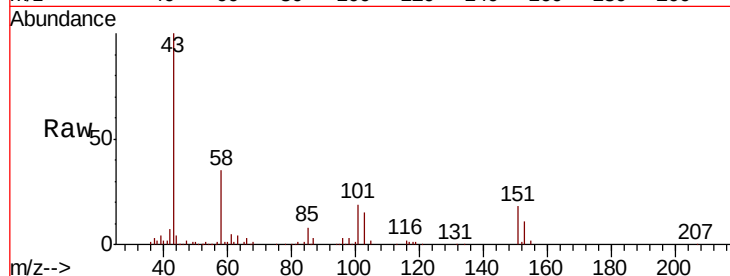
VSTD02518

Tgt Ion: 43 Resp: 173866

Ion Ratio Lower Upper

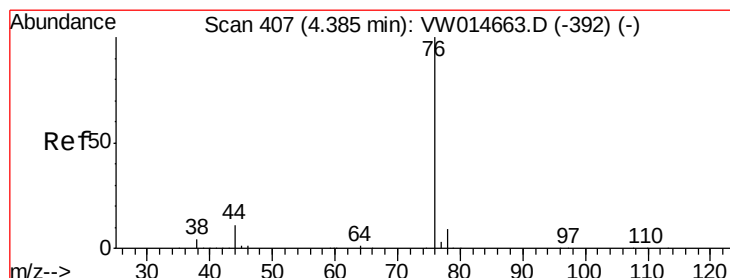
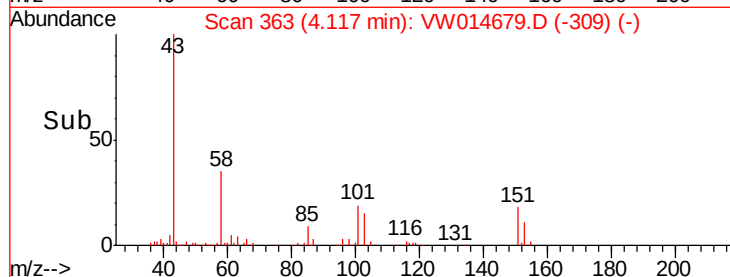
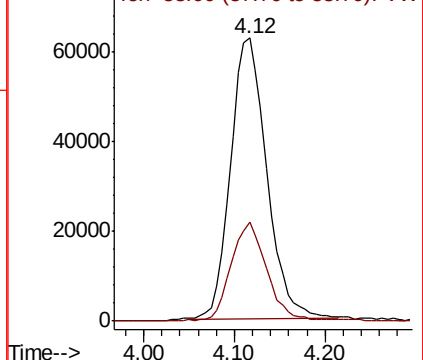
43 100

58 34.5 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.07 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW014679.D

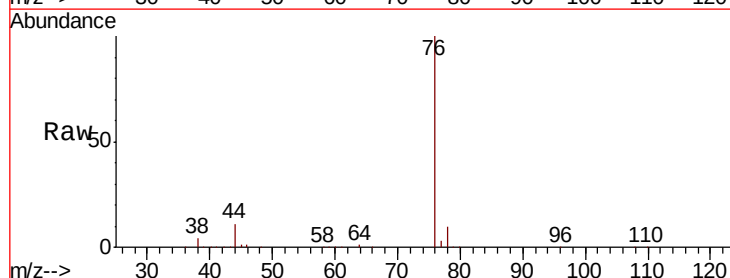
Acq: 17 Jan 2020 10:07

Tgt Ion: 76 Resp: 860461

Ion Ratio Lower Upper

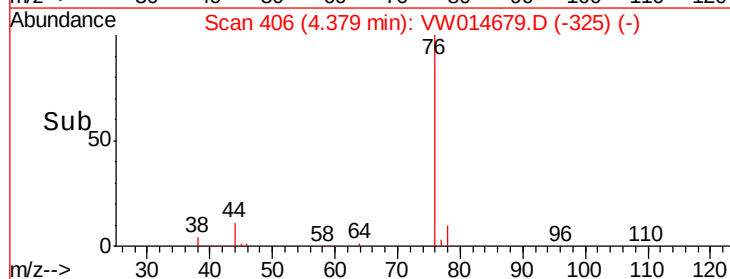
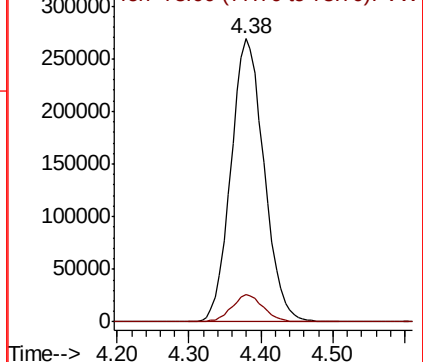
76 100

78 9.5 6.9 10.3

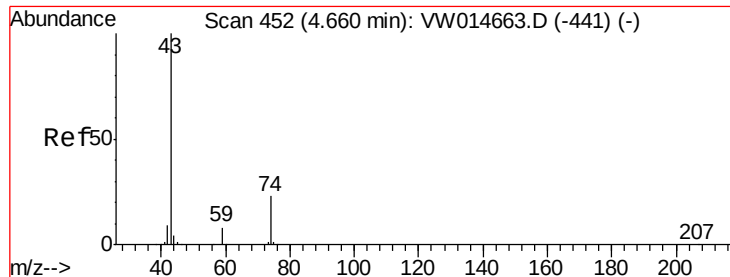


Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW



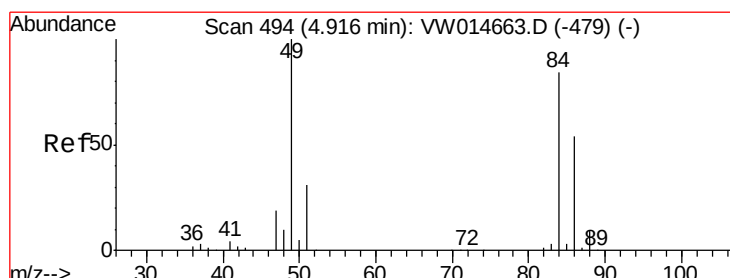
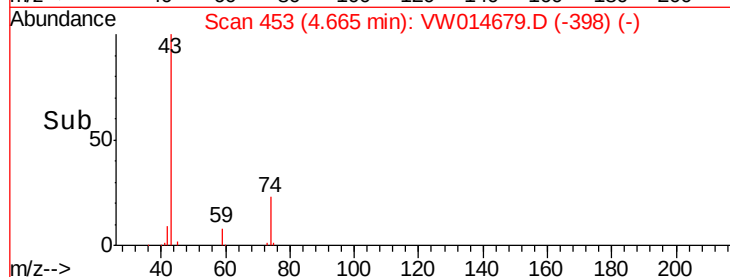
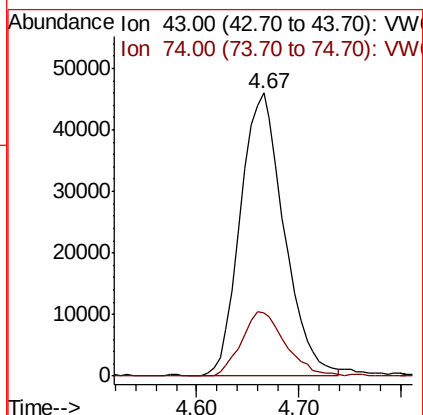
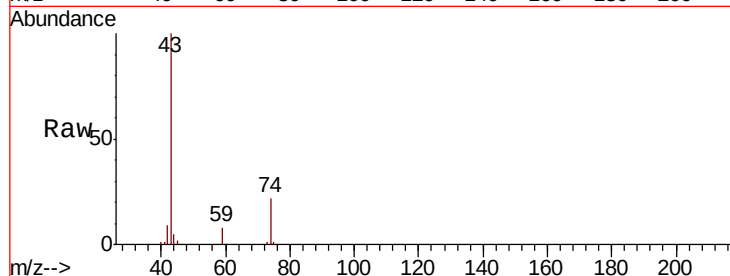




#15  
Methyl Acetate  
Concen: 23.06 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. 0.01 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

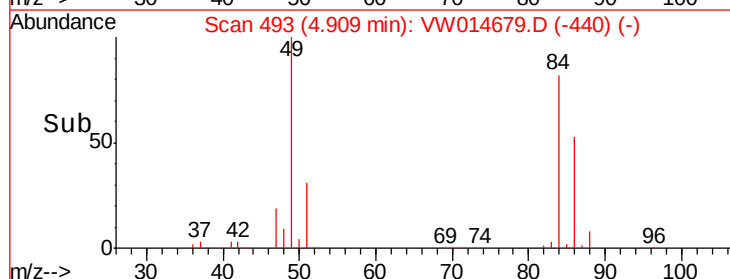
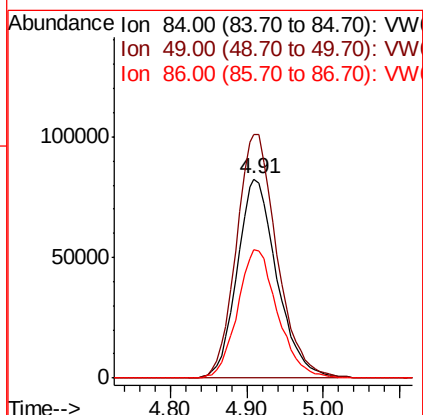
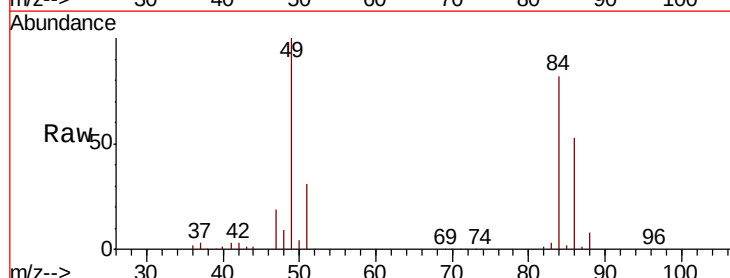
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD02518

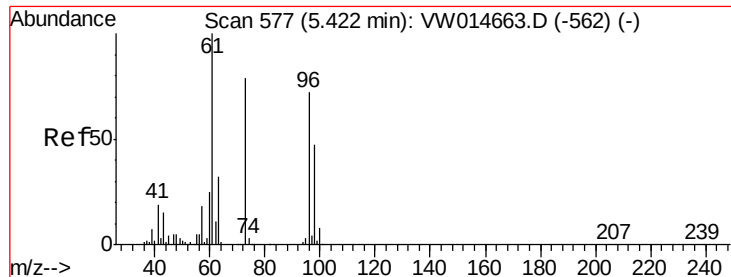
Tgt Ion: 43 Resp: 136487  
Ion Ratio Lower Upper  
43 100  
74 23.0 18.3 27.5



#16  
Methylene chloride  
Concen: 19.30 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Tgt Ion: 84 Resp: 297221  
Ion Ratio Lower Upper  
84 100  
49 122.0 85.8 159.4  
86 64.2 44.5 82.7

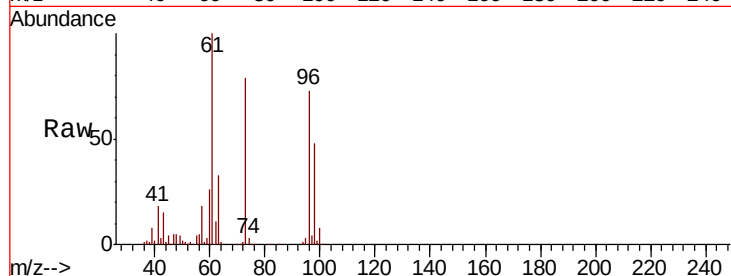




#17  
Methyl tert-butyl Ether  
Concen: 23.82 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD02518

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 18.8  | 15.7  | 23.5  |
| 57      | 22.8  | 18.3  | 27.5  |

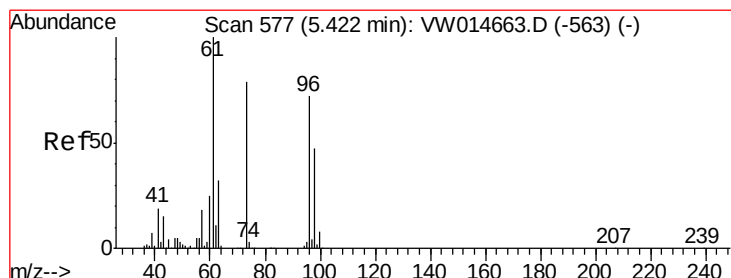
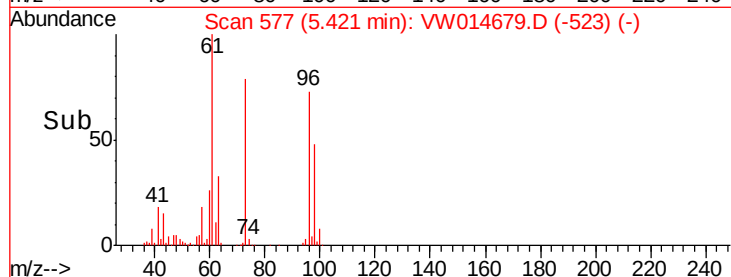
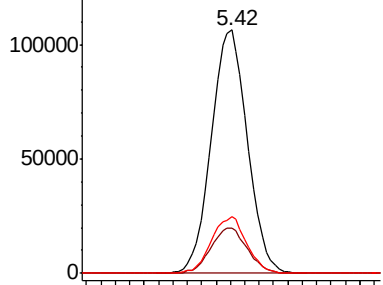


Abundance

Ion 73.00 (72.70 to 73.70): VW

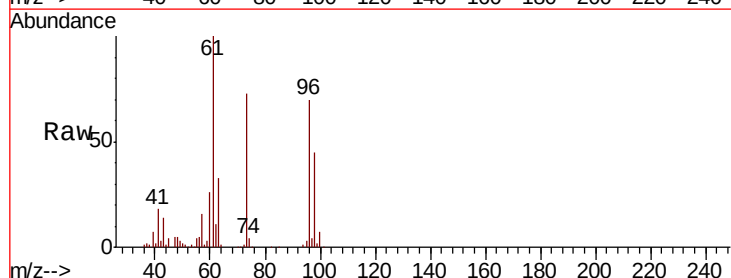
Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18  
trans-1,2-Dichloroethene  
Concen: 23.62 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 142.8 | 98.2  | 182.4 |
| 98      | 64.6  | 44.1  | 81.9  |

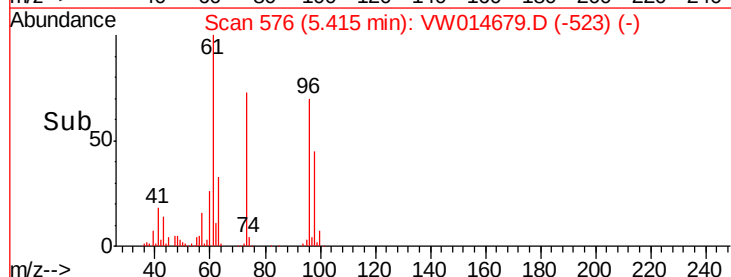
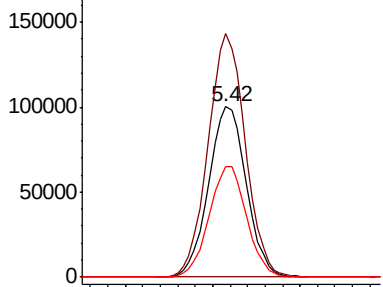


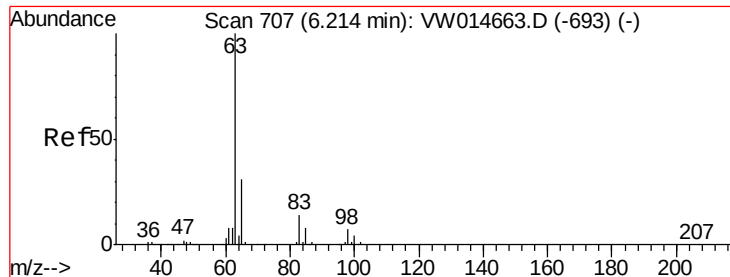
Abundance

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: 23.70 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

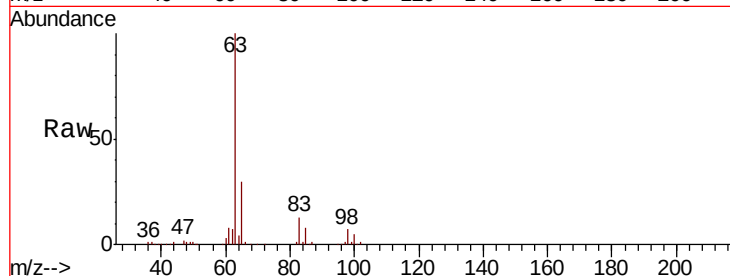
Tgt Ion: 63 Resp: 545250

Ion Ratio Lower Upper

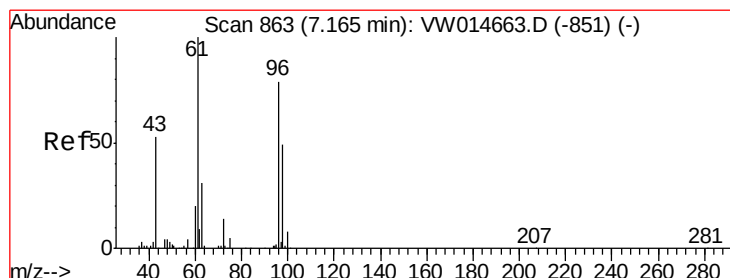
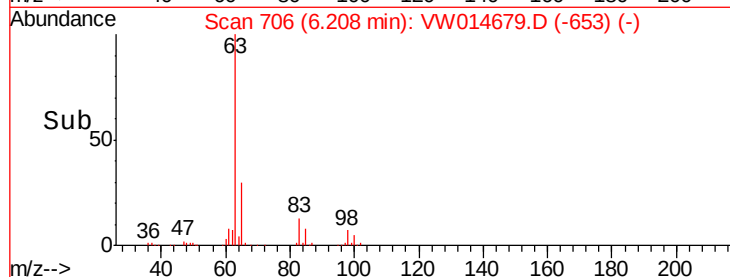
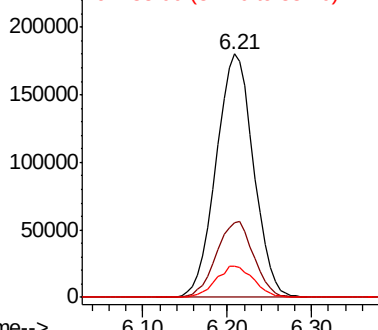
63 100

65 30.5 21.7 40.3

83 12.9 9.0 16.8



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: 43.34 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014679.D

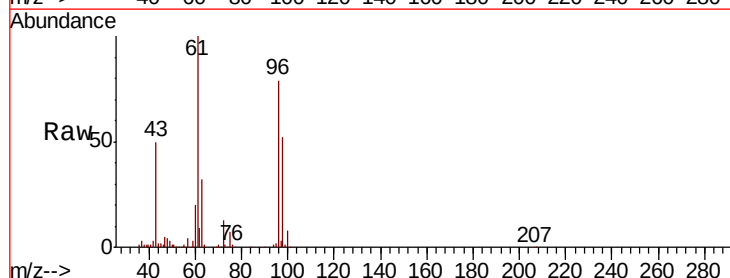
Acq: 17 Jan 2020 10:07

Tgt Ion: 43 Resp: 203941

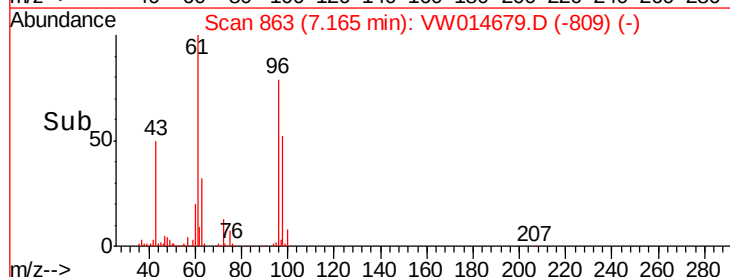
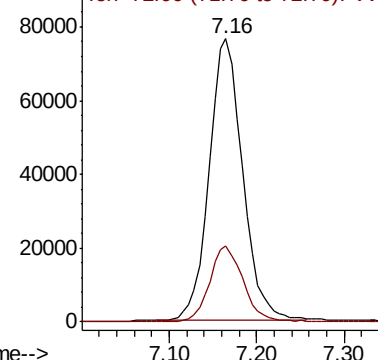
Ion Ratio Lower Upper

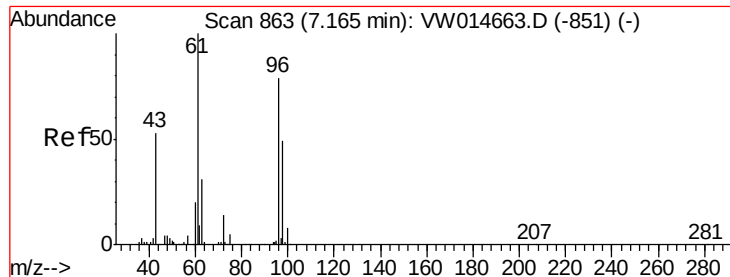
43 100

72 26.8 13.3 39.8



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



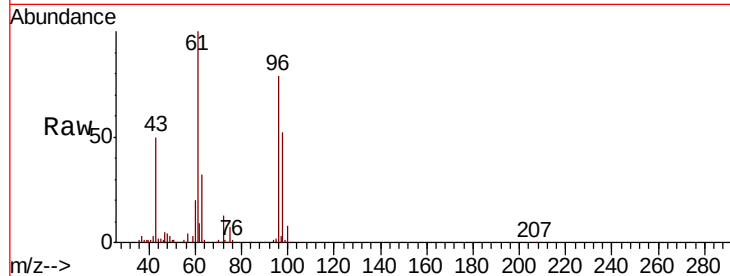


#22

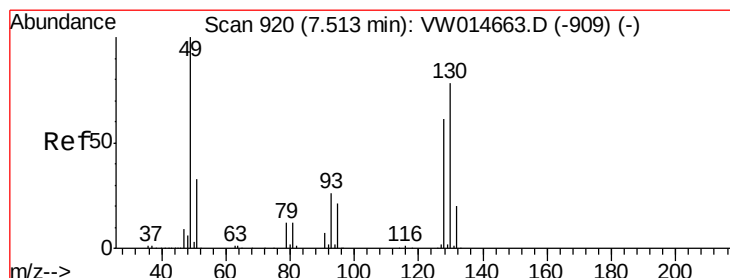
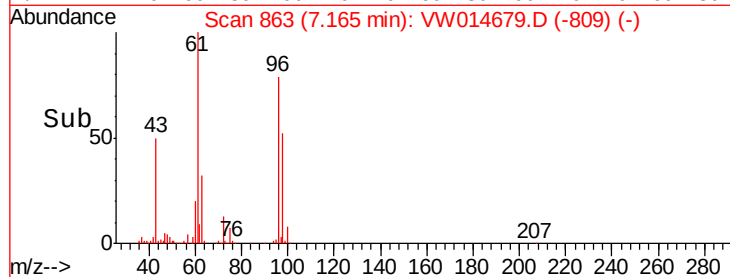
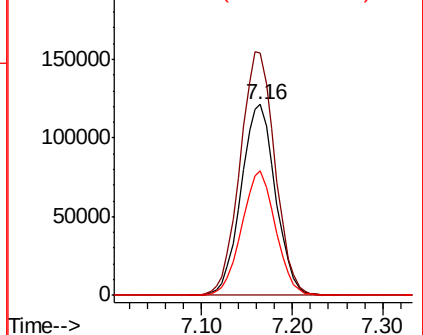
cis-1,2-Dichloroethene  
Concen: 23.83 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02518

Tgt Ion: 96 Resp: 319299  
Ion Ratio Lower Upper  
96 100  
61 126.9 91.5 169.9  
98 65.5 46.9 87.1



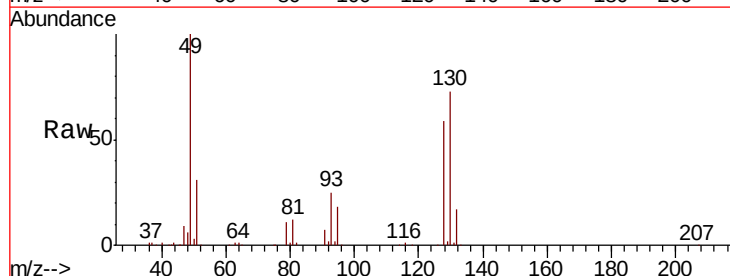
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



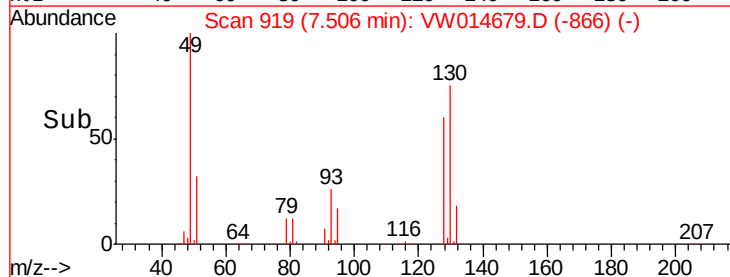
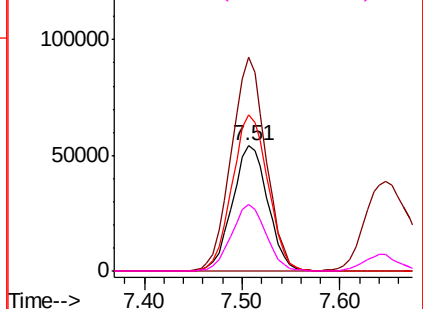
#23

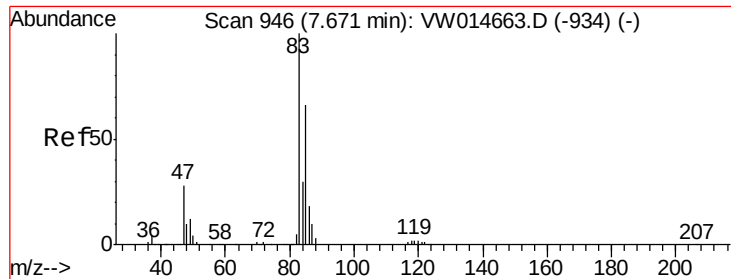
Bromochloromethane  
Concen: 23.48 ug/L  
RT: 7.51 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Tgt Ion: 128 Resp: 136209  
Ion Ratio Lower Upper  
128 100  
49 170.7 118.3 219.7  
130 124.5 89.5 166.1  
51 53.7 42.1 63.1



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

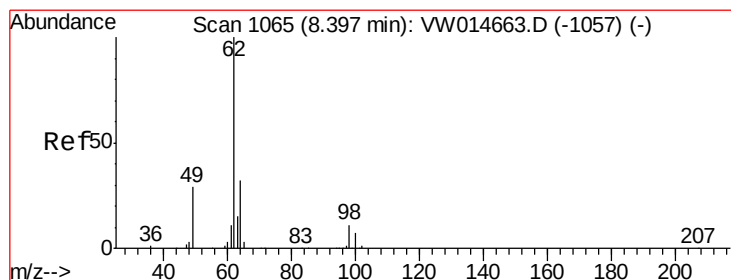
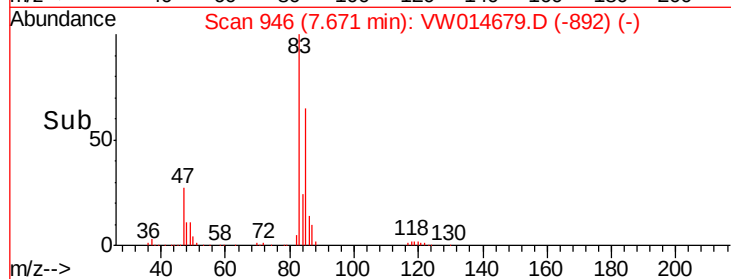
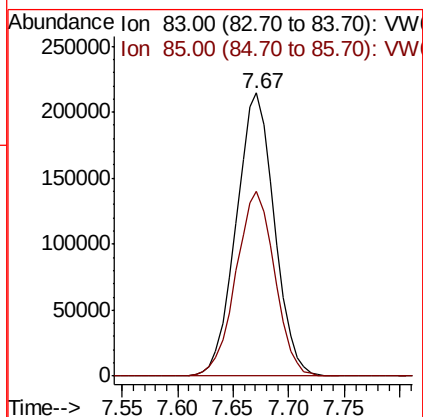
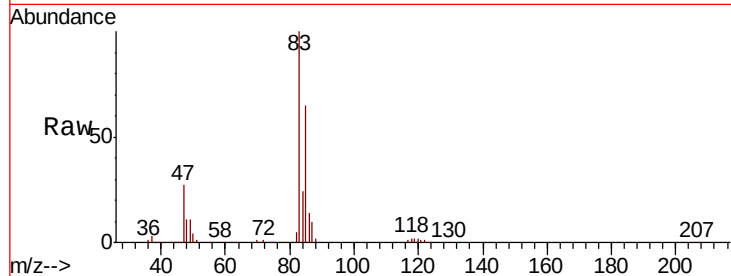




#25  
Chloroform  
Concen: 23.26 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

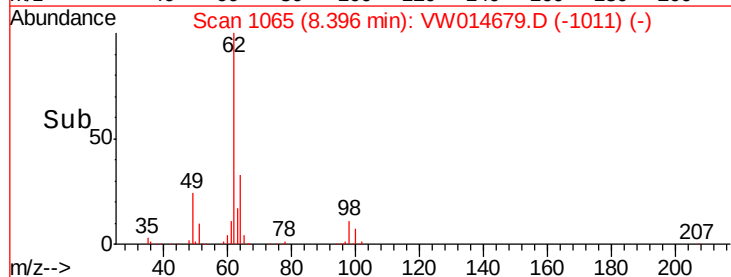
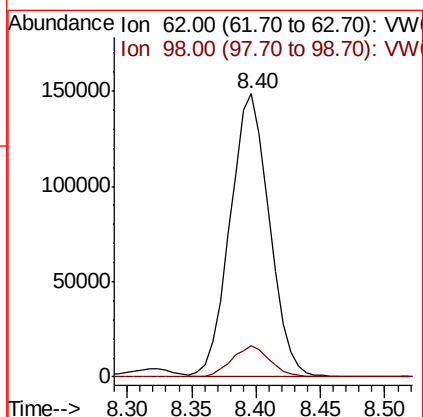
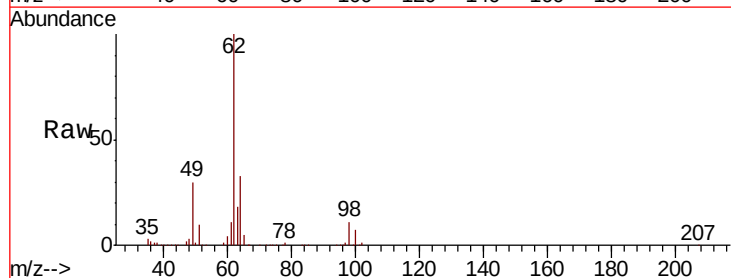
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02518

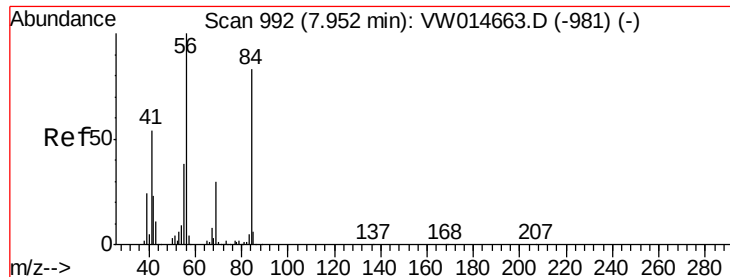
Tgt Ion: 83 Resp: 511803  
Ion Ratio Lower Upper  
83 100  
85 66.5 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 22.03 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Tgt Ion: 62 Resp: 314707  
Ion Ratio Lower Upper  
62 100  
98 11.0 8.3 12.5

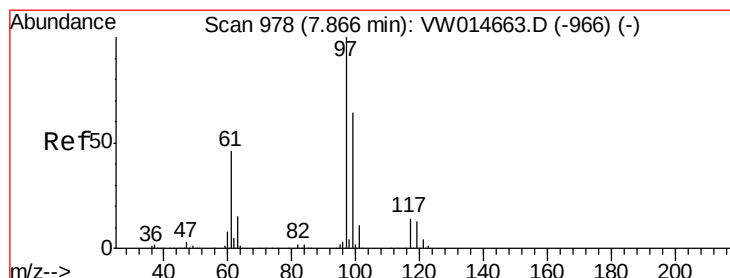
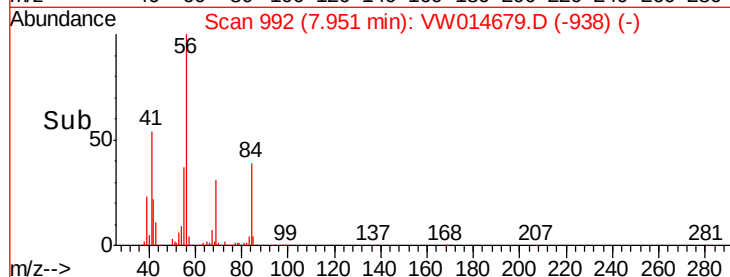
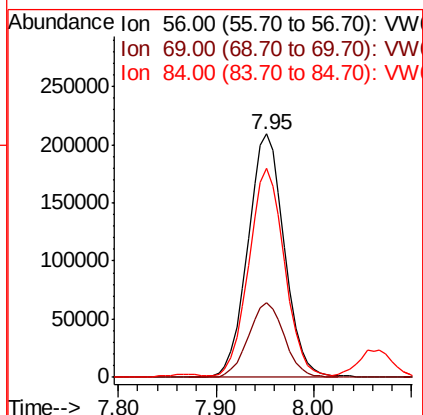
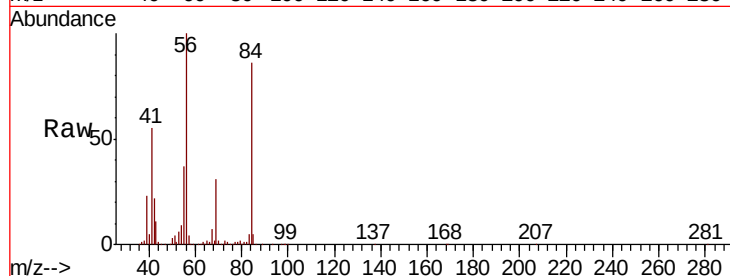




#30  
Cyclohexane  
Concen: 25.62 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

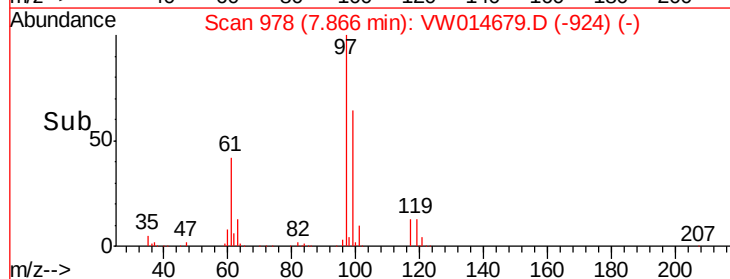
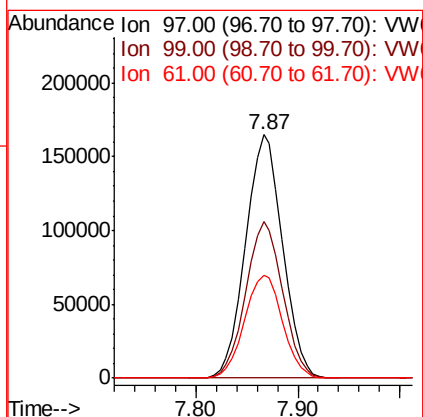
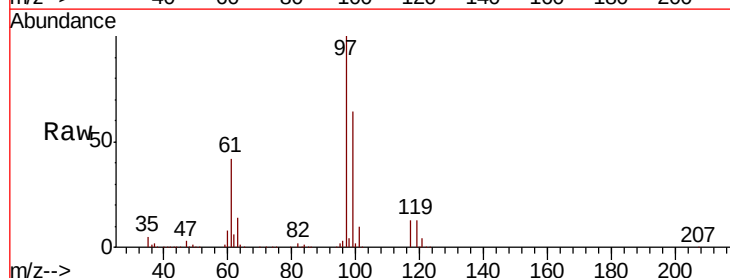
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02518

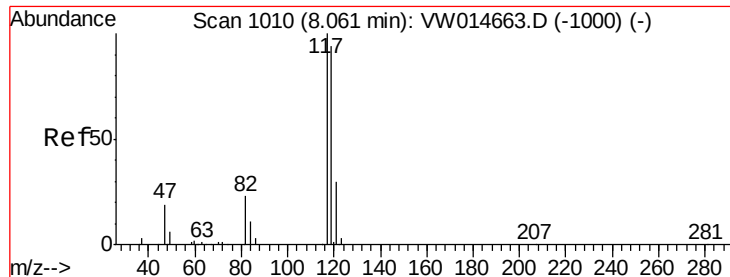
Tgt Ion: 56 Resp: 542801  
Ion Ratio Lower Upper  
56 100  
69 30.2 23.8 35.8  
84 84.6 68.2 102.2



#31  
1,1,1-Trichloroethane  
Concen: 24.50 ug/L  
RT: 7.87 min Scan# 978  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Tgt Ion: 97 Resp: 416330  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.6 77.4  
61 43.4 35.3 52.9





#32

Carbon tetrachloride

Concen: 24.27 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

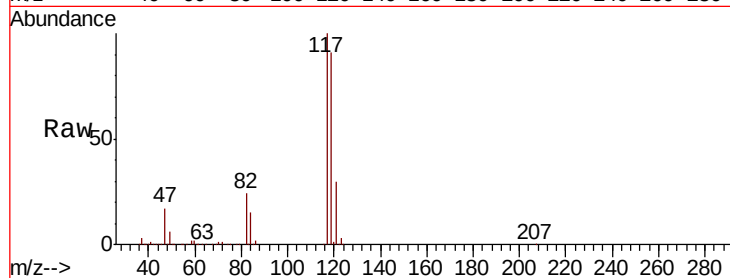
VSTD02518

Tgt Ion:117 Resp: 384169

Ion Ratio Lower Upper

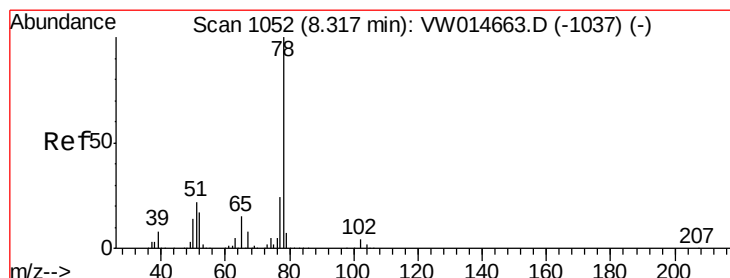
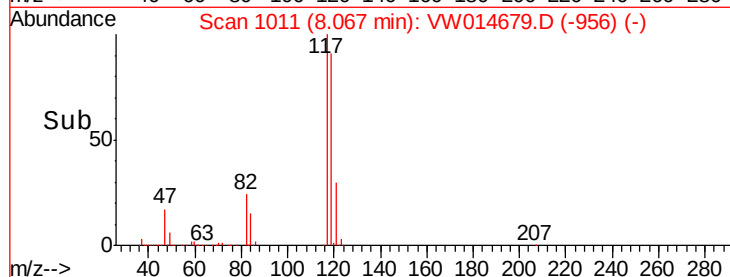
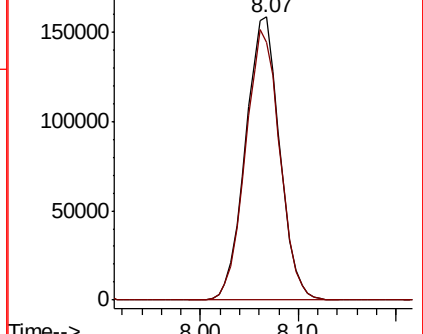
117 100

119 96.2 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.79 ug/L

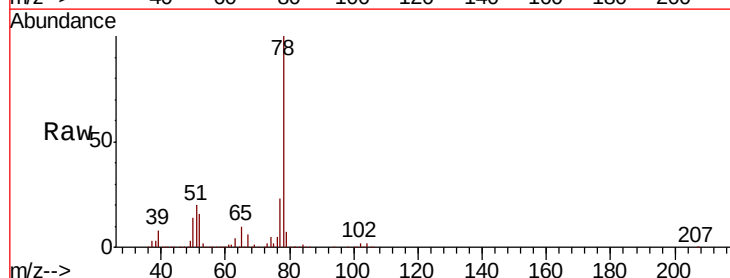
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

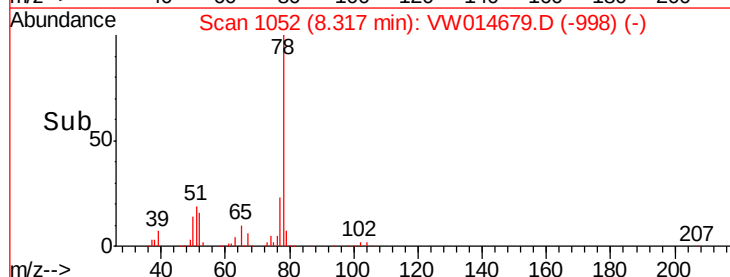
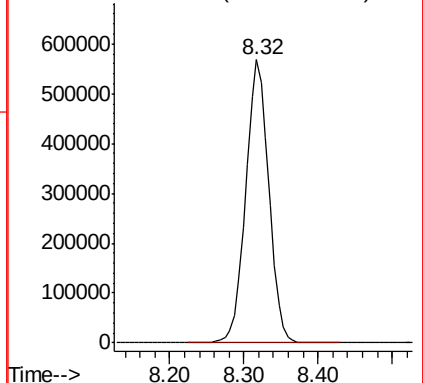
Lab File: VW014679.D

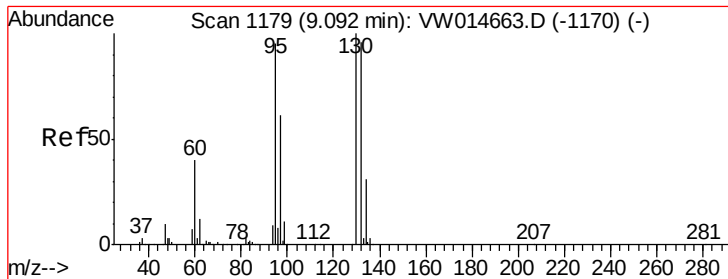
Acq: 17 Jan 2020 10:07

Tgt Ion: 78 Resp: 1235614



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.28 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

Tgt Ion: 95 Resp: 312379

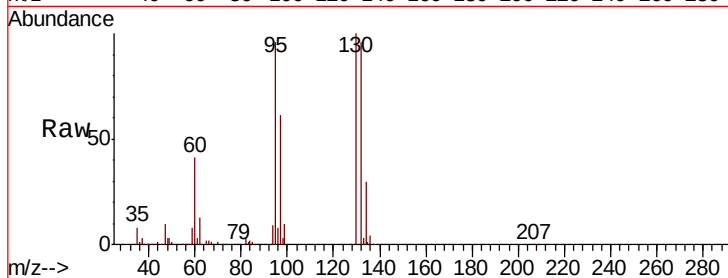
Ion Ratio Lower Upper

95 100

97 65.2 44.3 82.3

132 100.4 69.2 128.6

130 104.9 72.3 134.3

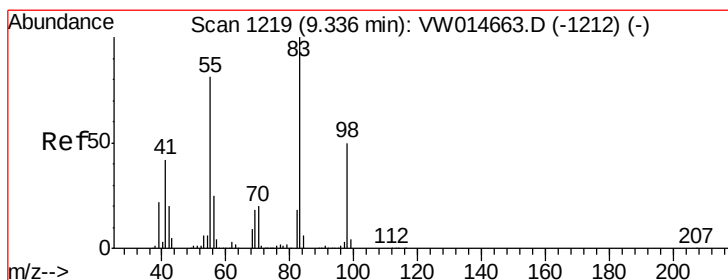
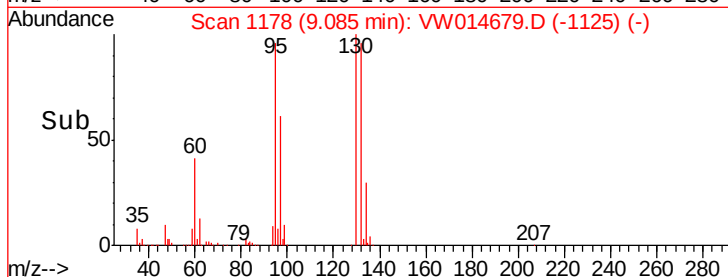
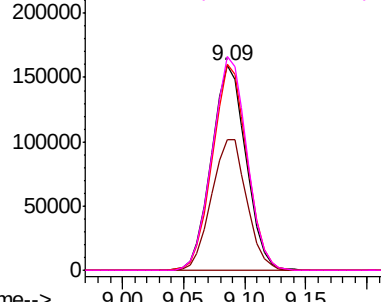


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 25.53 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

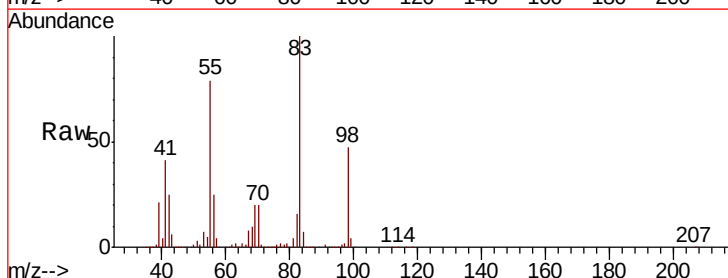
Tgt Ion: 83 Resp: 576251

Ion Ratio Lower Upper

83 100

55 78.1 63.7 95.5

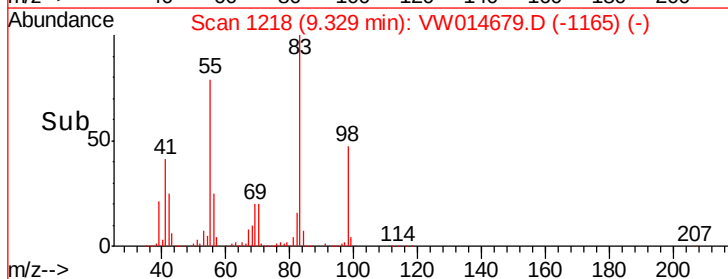
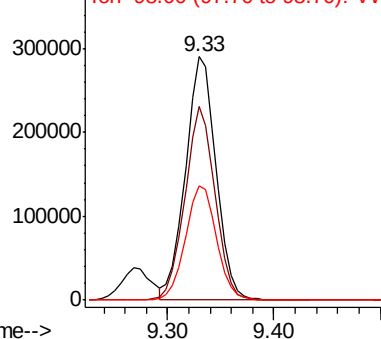
98 47.9 39.4 59.2



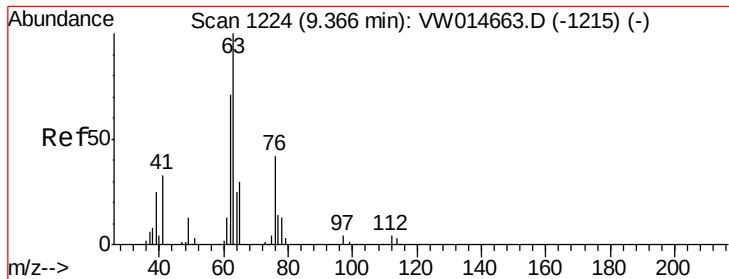
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW







#40

1,2-Dichloropropane

Concen: 24.14 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

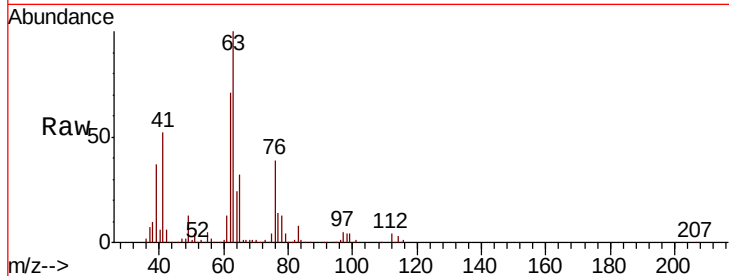
VSTD02518

Tgt Ion: 63 Resp: 304522

Ion Ratio Lower Upper

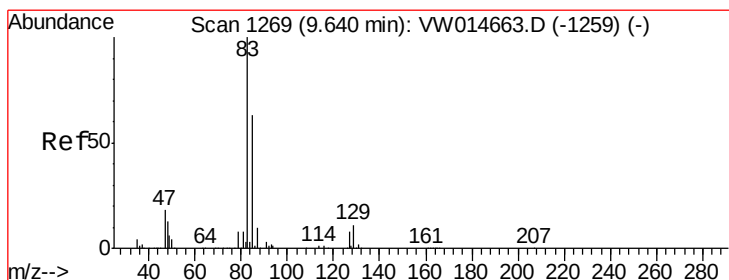
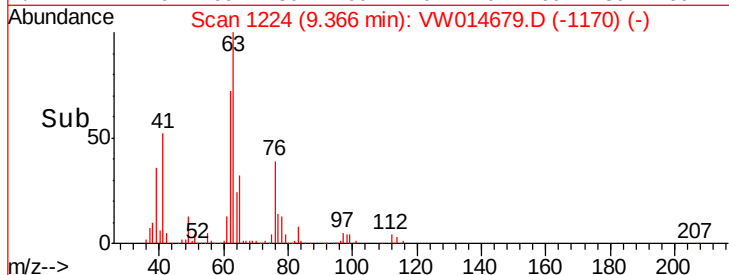
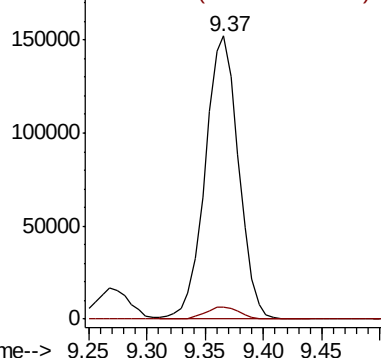
63 100

112 4.5 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 23.39 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

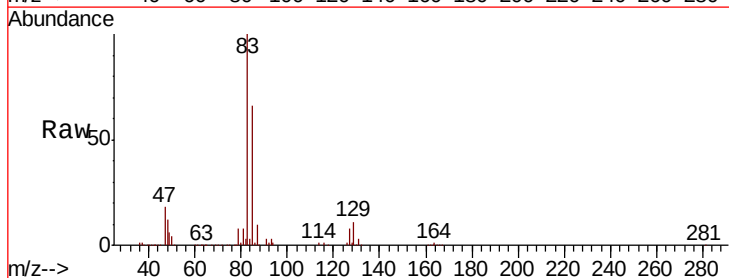
Tgt Ion: 83 Resp: 354969

Ion Ratio Lower Upper

83 100

85 66.0 44.7 83.1

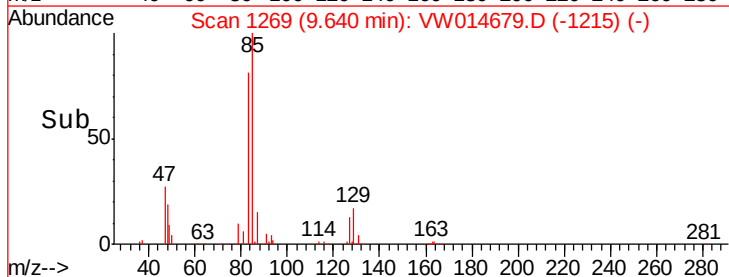
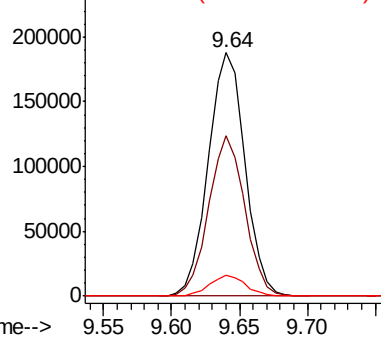
127 8.5 6.3 9.5

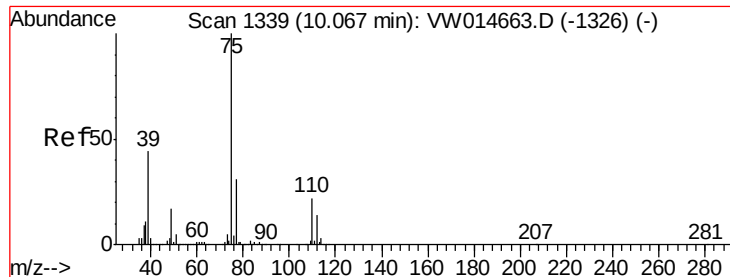


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 23.88 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampled :

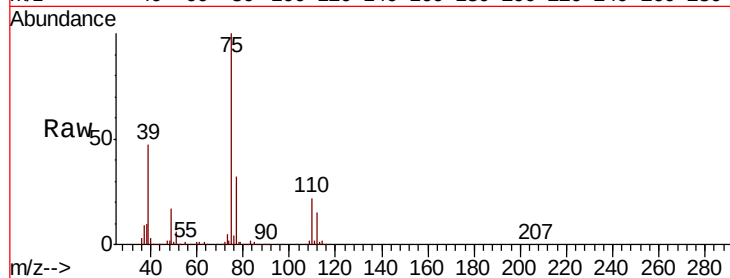
VSTD02518

Tgt Ion: 75 Resp: 449980

Ion Ratio Lower Upper

75 100

77 31.7 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

250000

200000

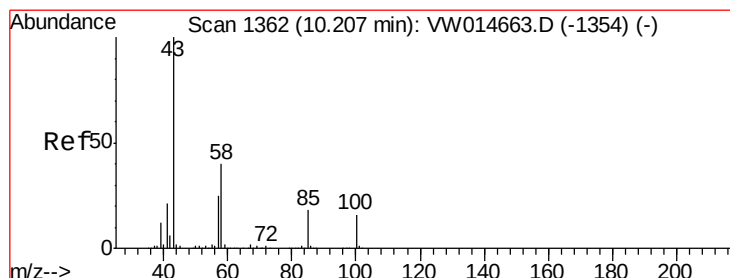
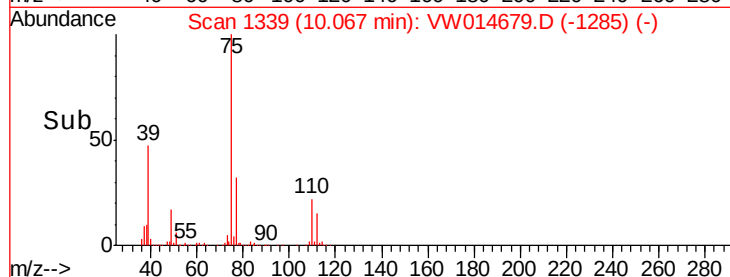
150000

100000

50000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 44.50 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

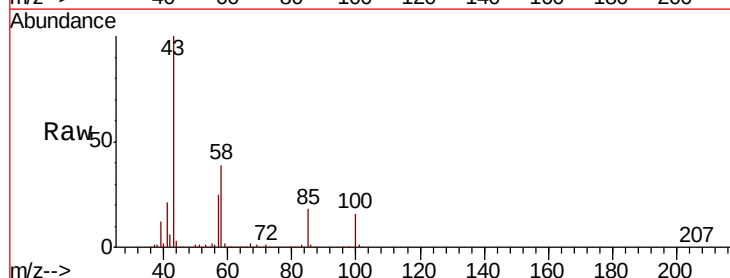
Tgt Ion: 43 Resp: 360372

Ion Ratio Lower Upper

43 100

58 39.8 32.6 48.8

100 16.2 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

500000

400000

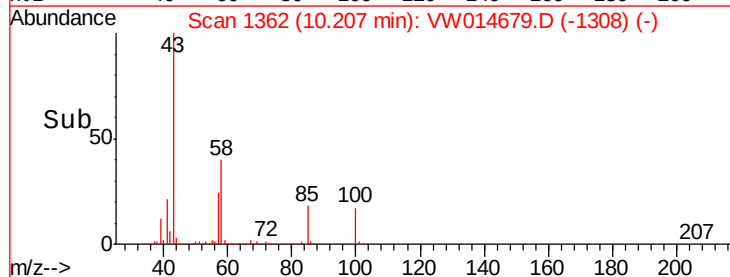
300000

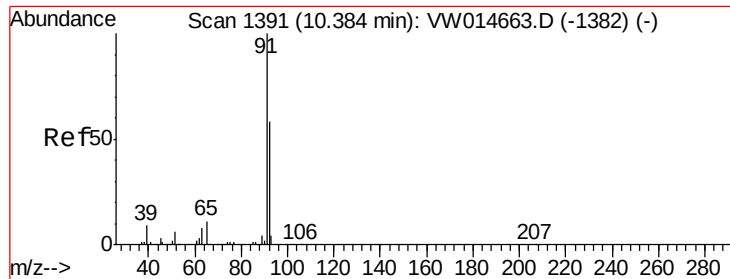
200000

100000

0

Time-->





#44

Toluene

Concen: 25.01 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

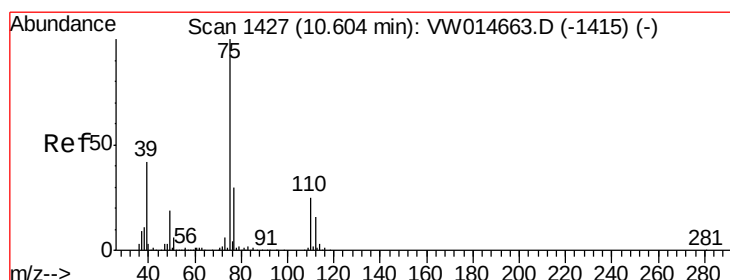
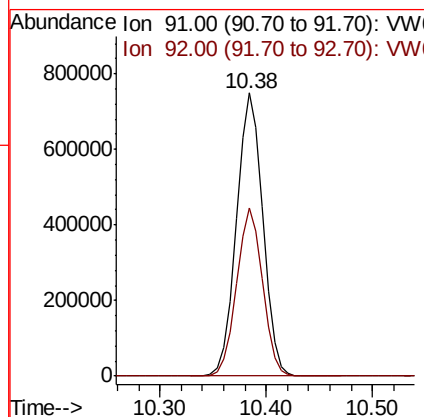
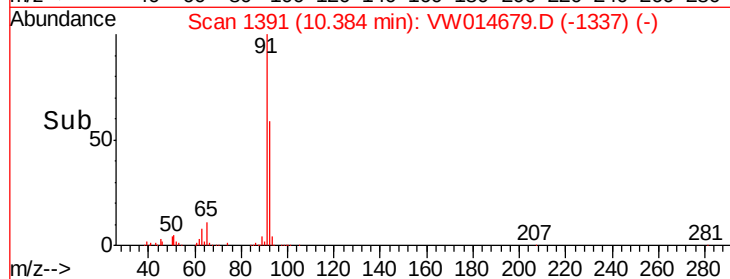
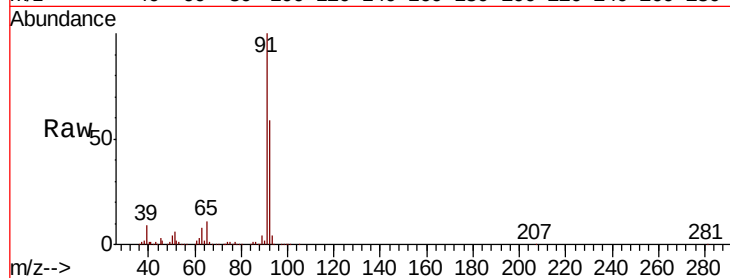
VSTD02518

Tgt Ion: 91 Resp: 1302665

Ion Ratio Lower Upper

91 100

92 59.3 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 23.66 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014679.D

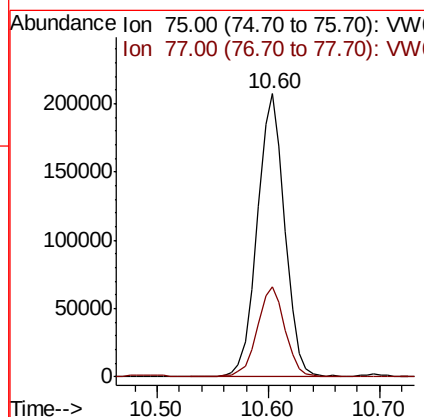
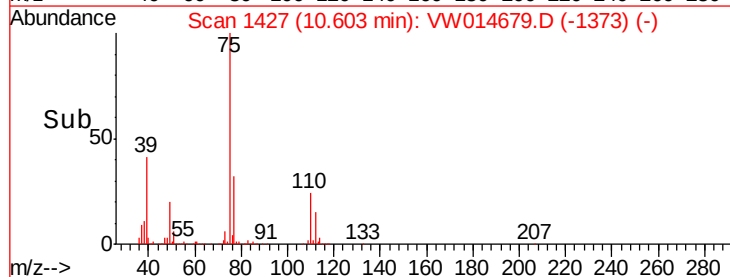
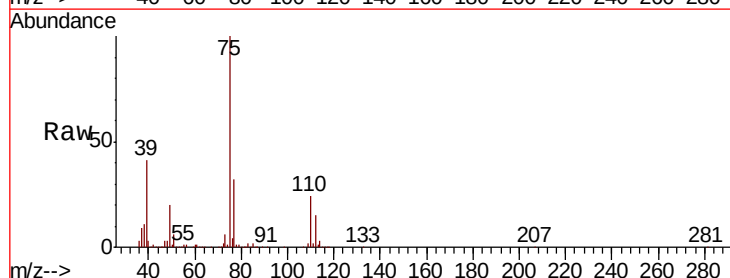
Acq: 17 Jan 2020 10:07

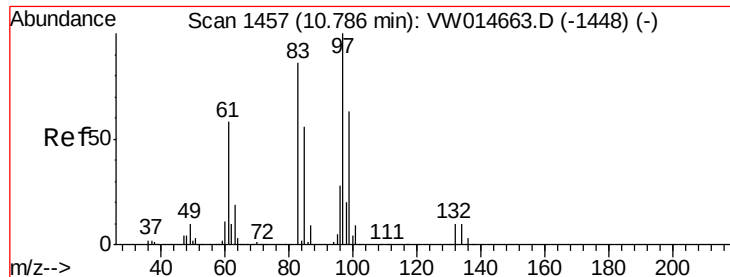
Tgt Ion: 75 Resp: 356595

Ion Ratio Lower Upper

75 100

77 31.9 21.1 39.3

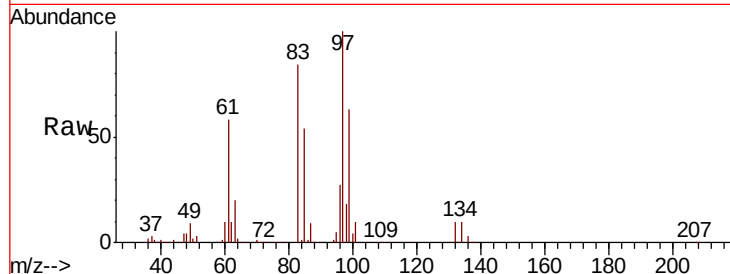




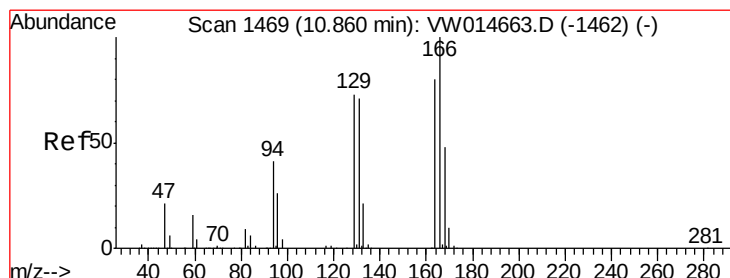
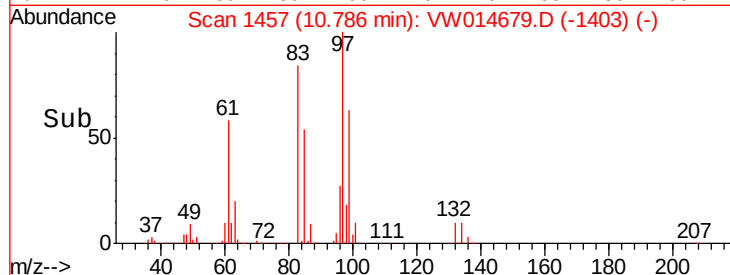
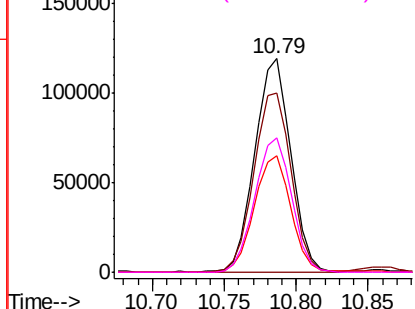
#46  
 1,1,2-Trichloroethane  
 Concen: 23.10 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02518

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 206449 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.2  | 60.1  | 111.5  |
| 85       | 54.4  | 38.1  | 70.9   |
| 99       | 63.0  | 43.4  | 80.6   |

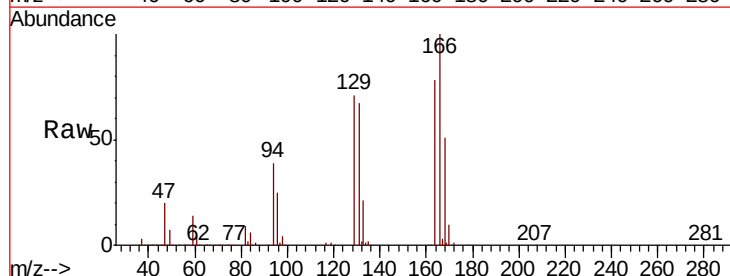


Abundance Ion 97.00 (96.70 to 97.70): VW  
 Ion 83.00 (82.70 to 83.70): VW  
 Ion 85.00 (84.70 to 85.70): VW  
 Ion 99.00 (98.70 to 99.70): VW

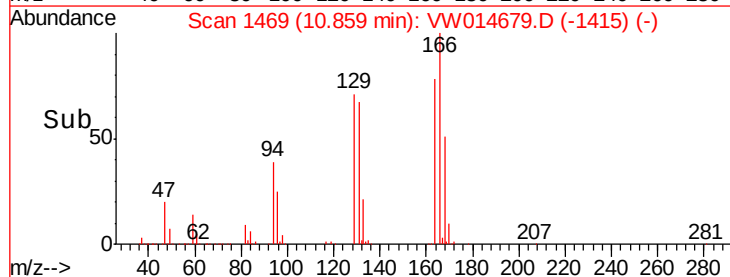
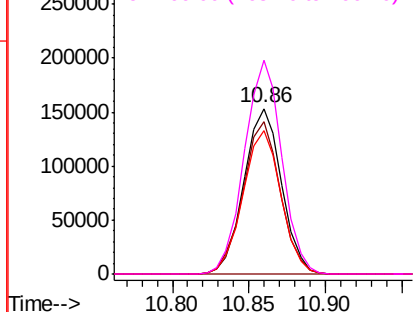


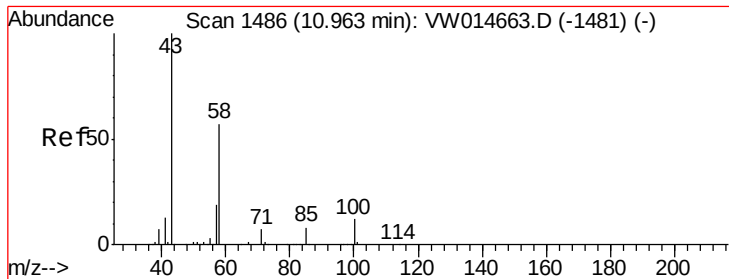
#47  
 Tetrachloroethene  
 Concen: 24.28 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 262298 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 92.1  | 64.0  | 118.8  |
| 131      | 86.8  | 60.2  | 111.8  |
| 166      | 128.9 | 88.2  | 163.8  |



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

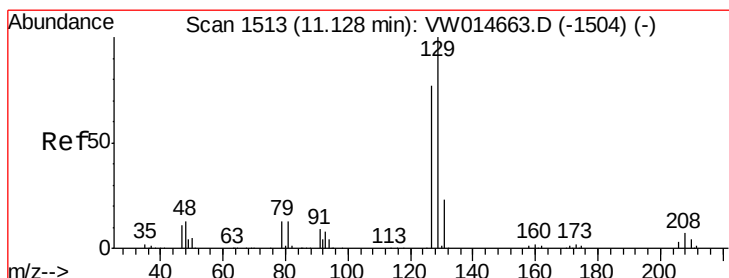
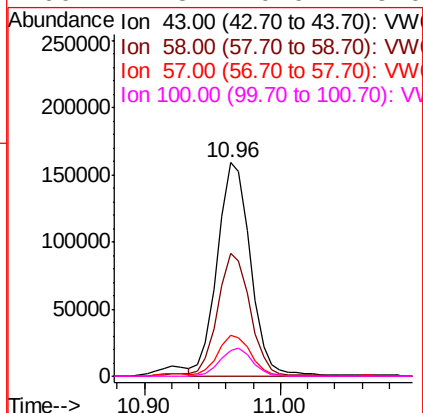
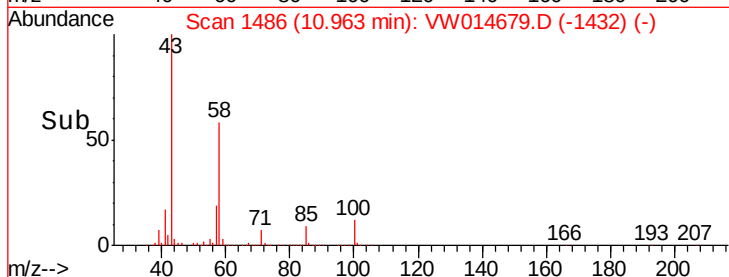
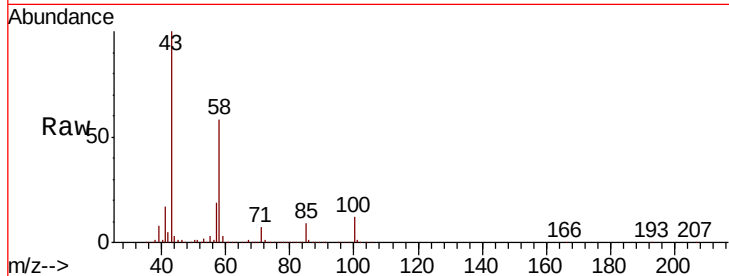




#49  
2-Hexanone  
Concen: 48.83 ug/L  
RT: 10.96 min Scan# 1486  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

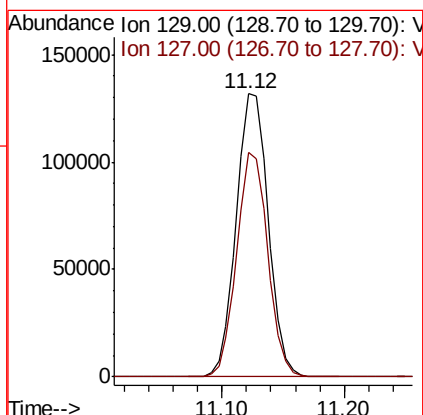
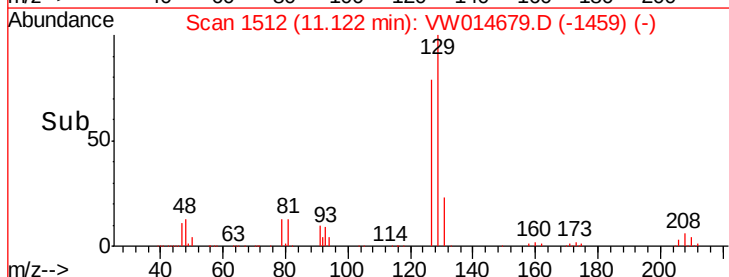
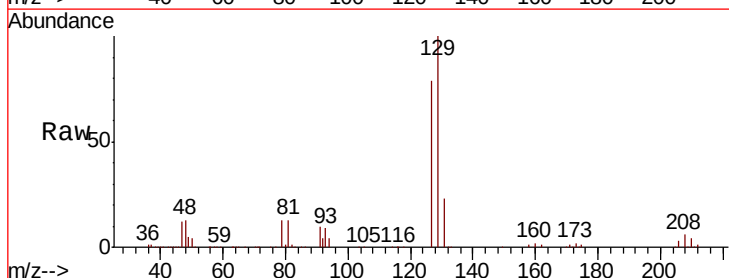
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02518

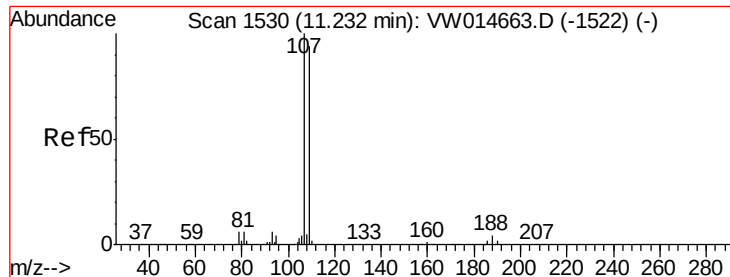
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 270043 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 56.1  | 44.9  | 67.3   |
| 57       | 18.6  | 15.3  | 22.9   |
| 100      | 12.8  | 10.0  | 15.0   |



#50  
Dibromochloromethane  
Concen: 23.62 ug/L  
RT: 11.12 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 239627 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 79.4  | 51.1  | 94.9   |





#51

1,2-Dibromoethane

Concen: 23.39 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

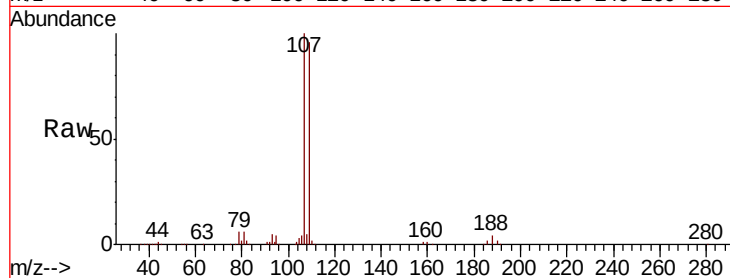
Tgt Ion:107 Resp: 197338

Ion Ratio Lower Upper

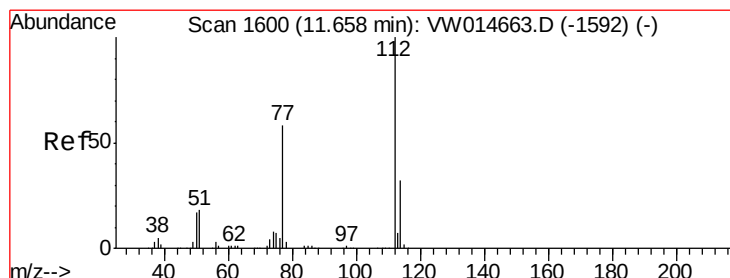
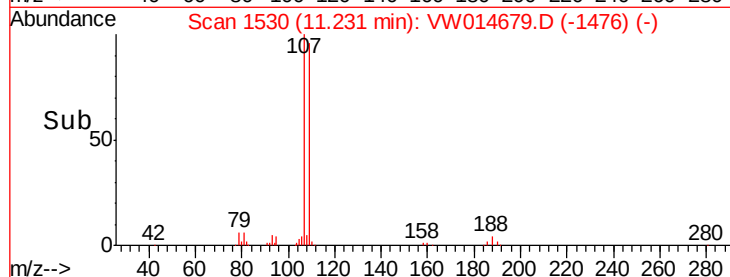
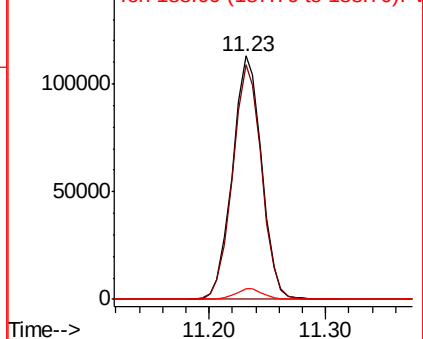
107 100

109 96.2 64.7 120.1

188 4.1 3.0 4.6



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: 24.03 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

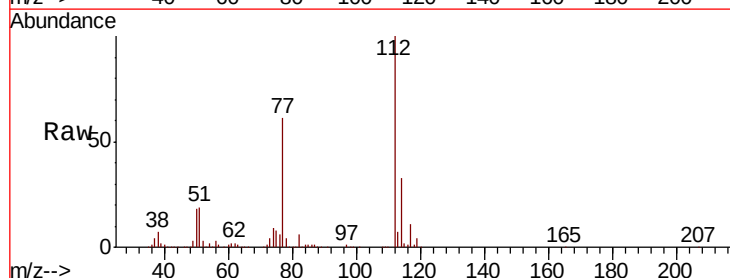
Tgt Ion:112 Resp: 791331

Ion Ratio Lower Upper

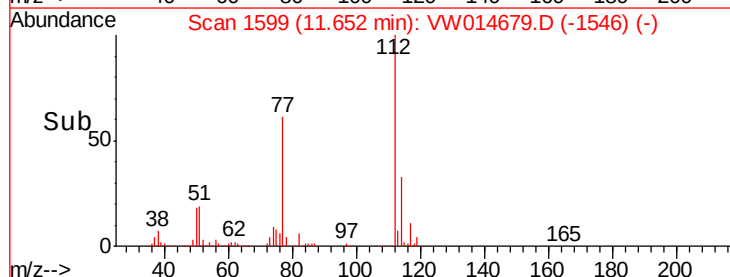
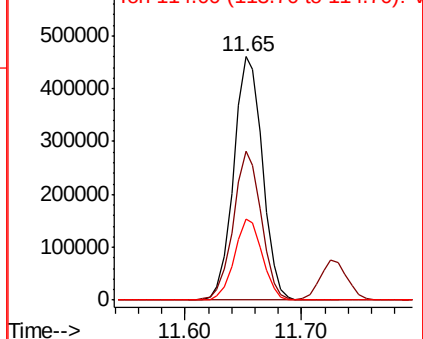
112 100

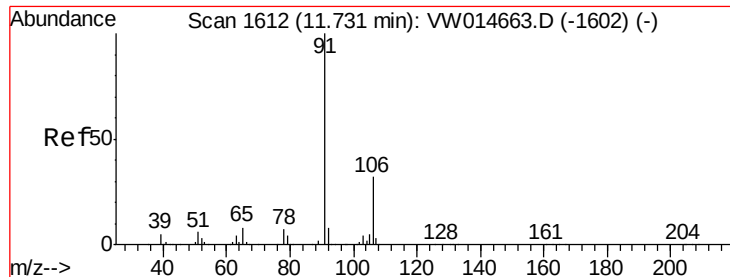
77 61.0 48.2 72.2

114 33.3 22.9 42.5



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: 25.00 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

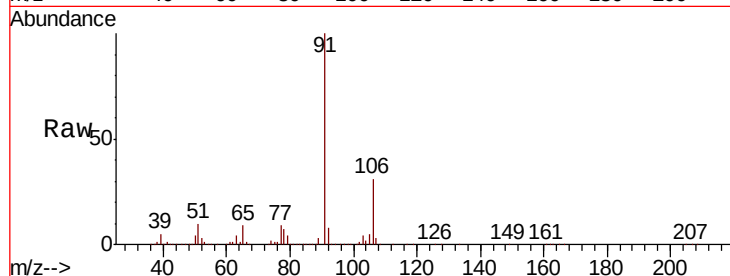
VSTD02518

Tgt Ion: 91 Resp: 1431704

Ion Ratio Lower Upper

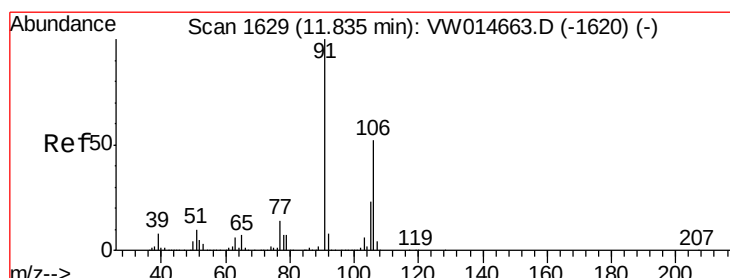
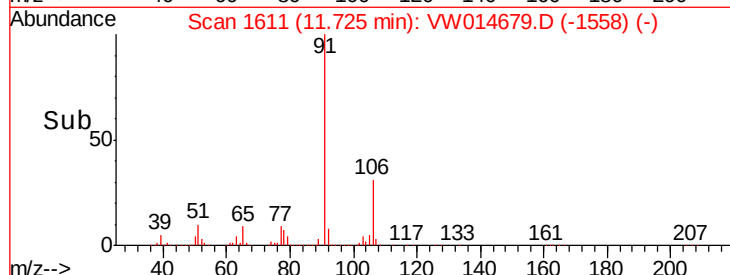
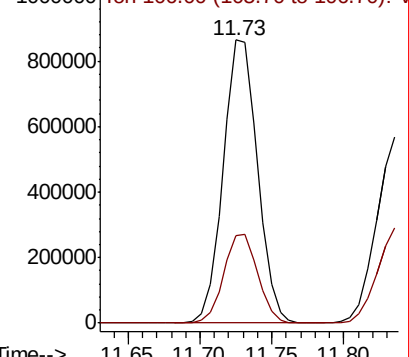
91 100

106 30.8 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 25.06 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014679.D

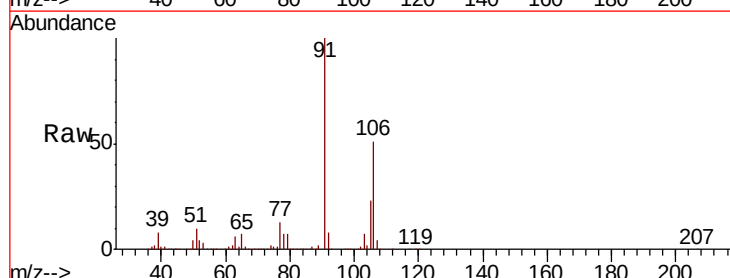
Acq: 17 Jan 2020 10:07

Tgt Ion: 106 Resp: 543069

Ion Ratio Lower Upper

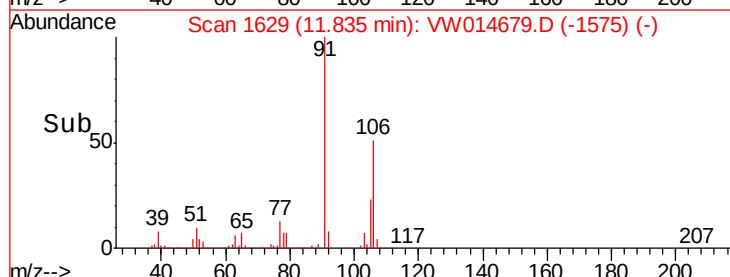
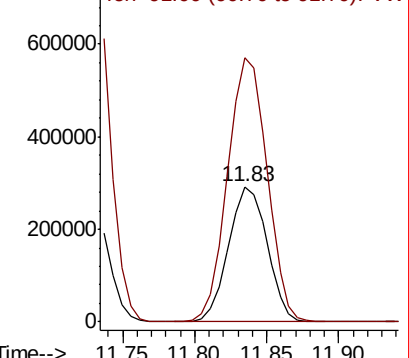
106 100

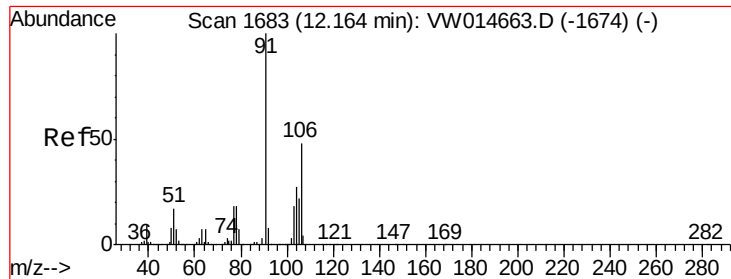
91 195.0 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

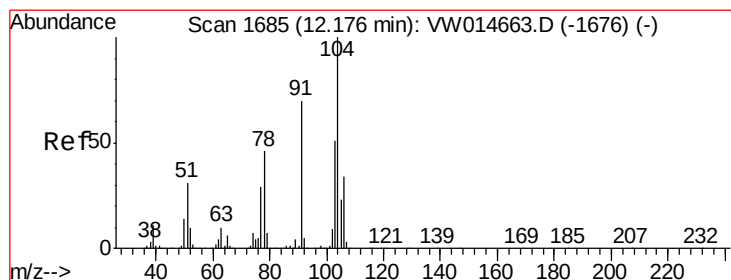
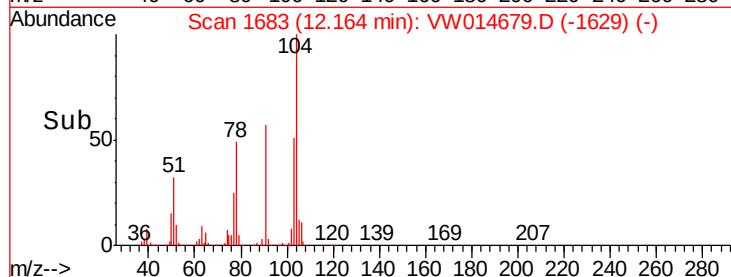
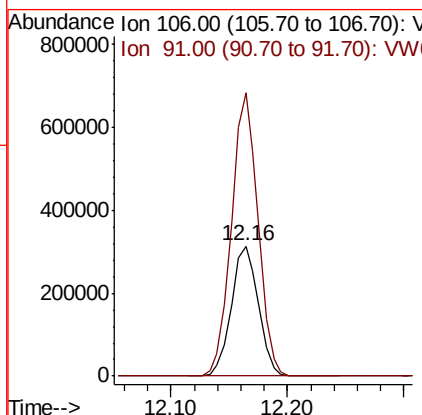
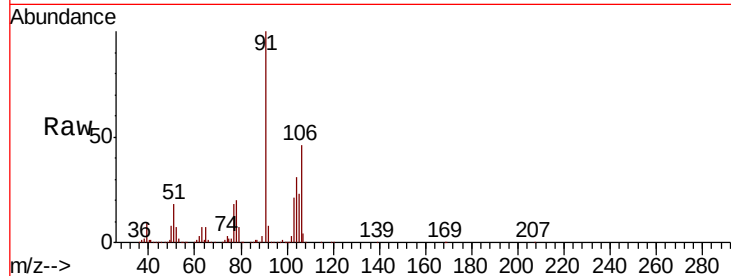




#55  
o-xylene  
Concen: 24.72 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

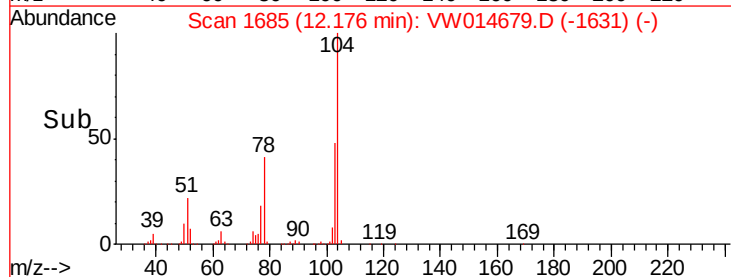
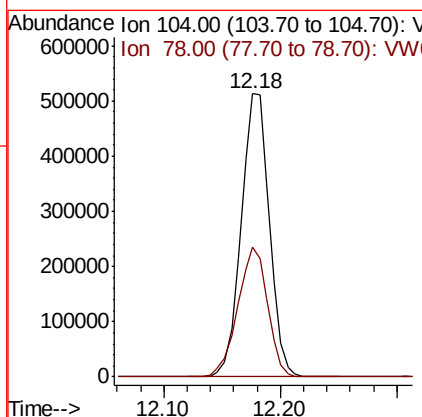
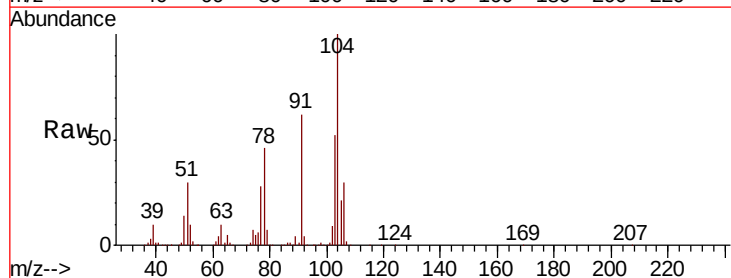
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02518

Tgt Ion:106 Resp: 505967  
Ion Ratio Lower Upper  
106 100  
91 217.4 148.7 276.1

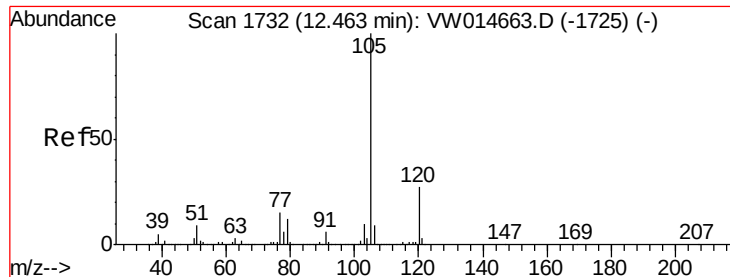


#56  
Styrene  
Concen: 25.11 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.00 min  
Lab File: VW014679.D  
Acq: 17 Jan 2020 10:07

Tgt Ion:104 Resp: 865344  
Ion Ratio Lower Upper  
104 100  
78 45.9 32.3 60.1







#57

Isopropylbenzene

Concen: 25.61 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

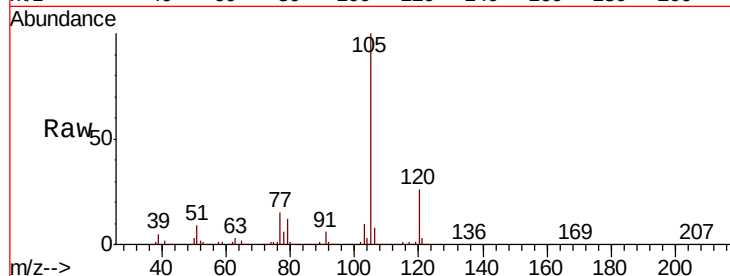
Tgt Ion:105 Resp: 1394498

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.6

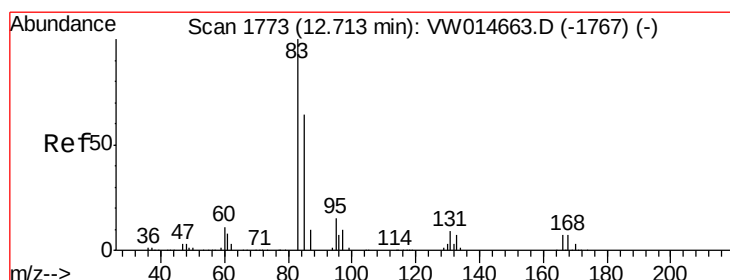
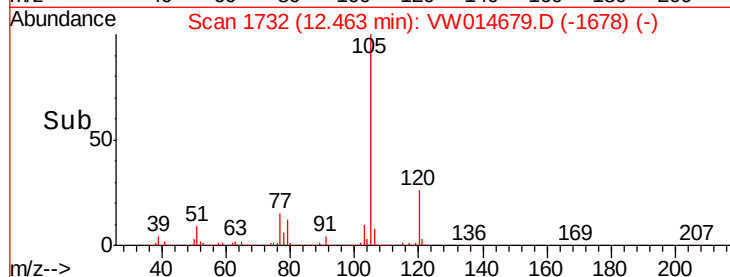
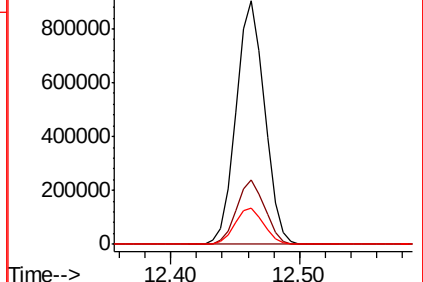
77 15.0 12.2 18.2



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: 22.92 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

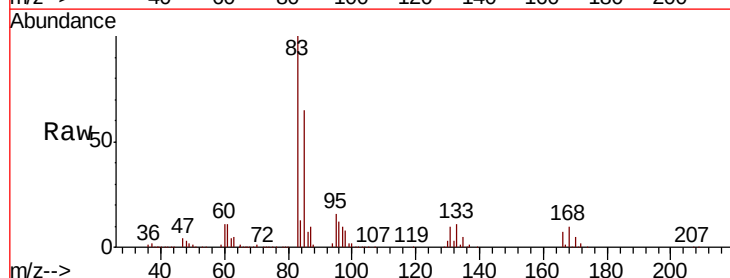
Tgt Ion: 83 Resp: 248690

Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

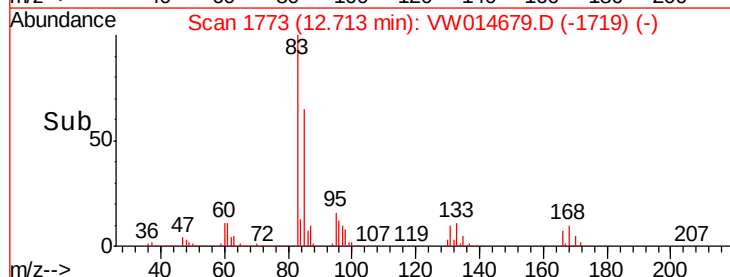
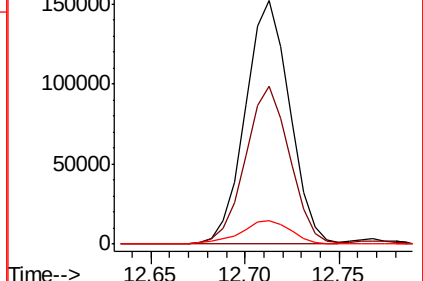
131 9.6 8.0 12.0

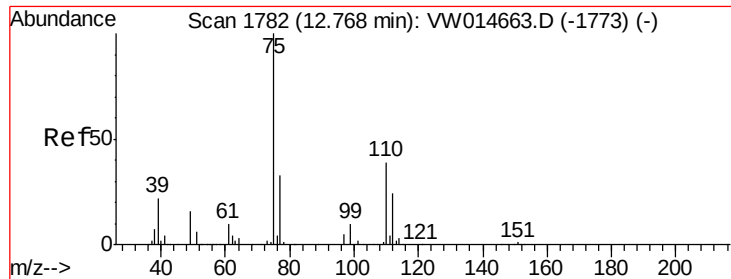


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

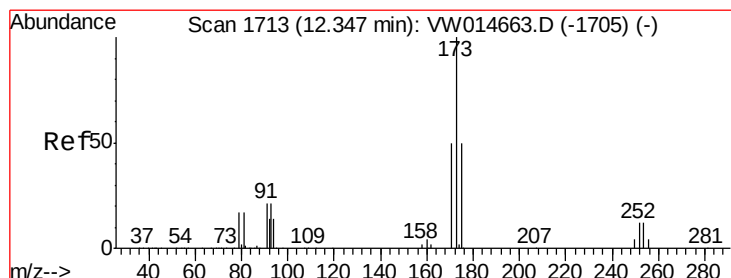
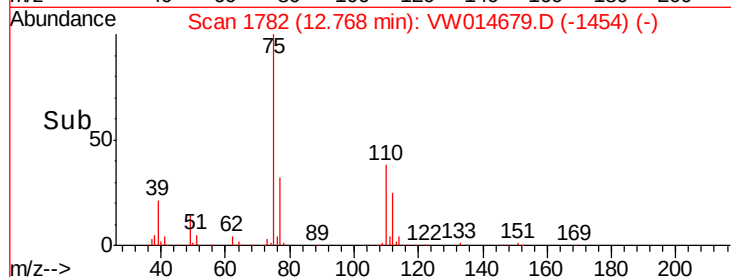
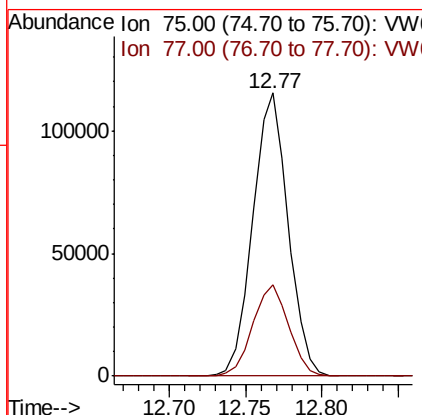
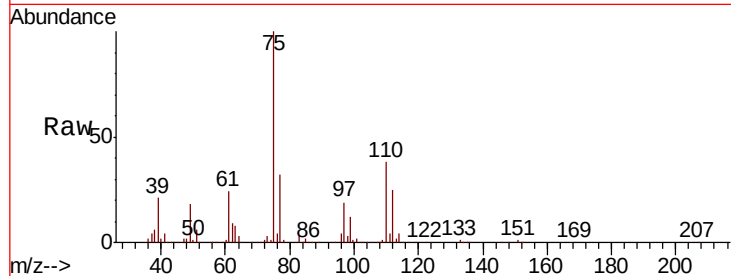




#59  
 1,2,3-Trichloropropane  
 Concen: 22.82 ug/L  
 RT: 12.77 min Scan# 1782  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

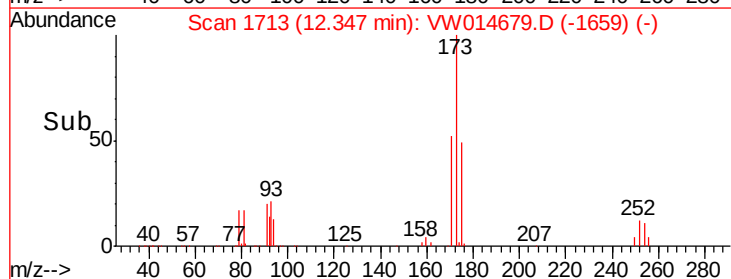
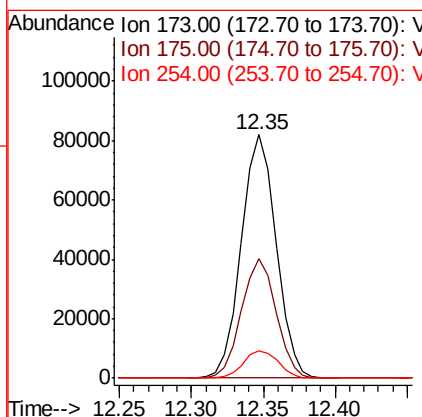
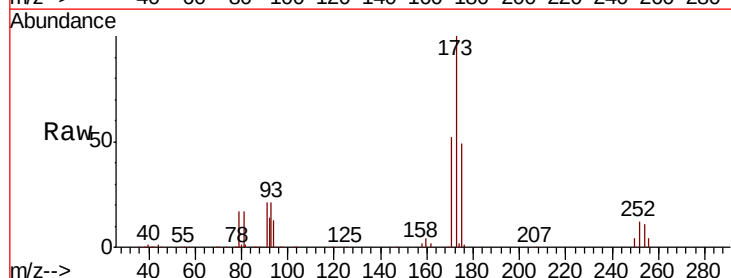
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02518

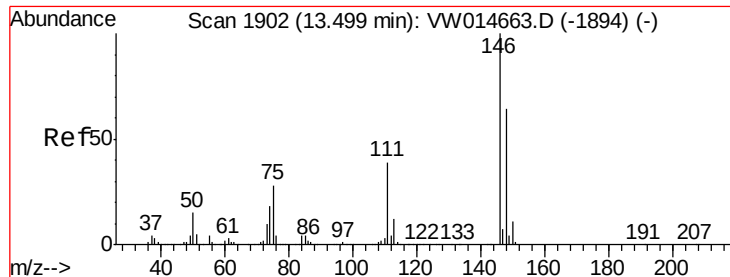
Tgt Ion: 75 Resp: 185450  
 Ion Ratio Lower Upper  
 75 100  
 77 32.9 26.2 39.2



#62  
 Bromoform  
 Concen: 23.22 ug/L  
 RT: 12.35 min Scan# 1713  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

Tgt Ion: 173 Resp: 137103  
 Ion Ratio Lower Upper  
 173 100  
 175 48.9 40.5 60.7  
 254 11.4 9.3 13.9





#63

1,3-Dichlorobenzene

Concen: 24.60 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

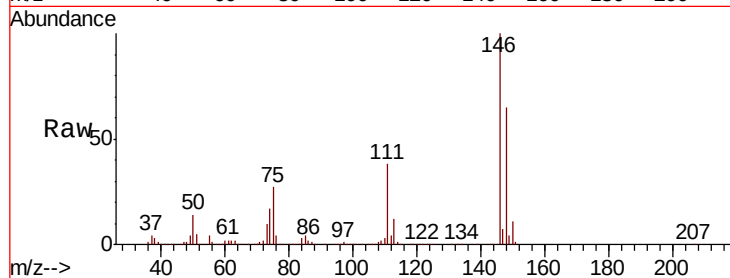
Tgt Ion:146 Resp: 615478

Ion Ratio Lower Upper

146 100

111 38.0 26.9 50.1

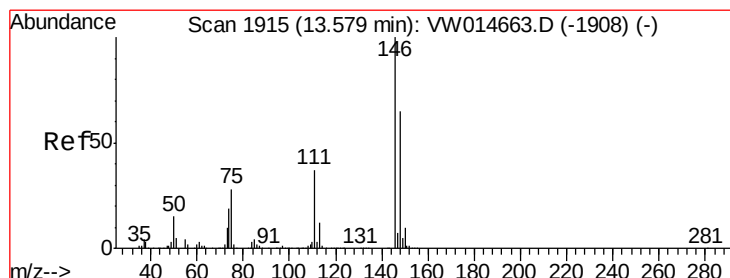
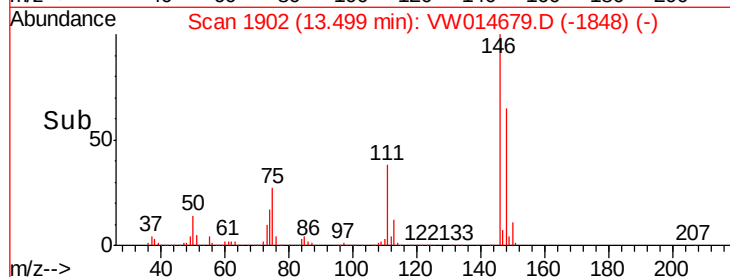
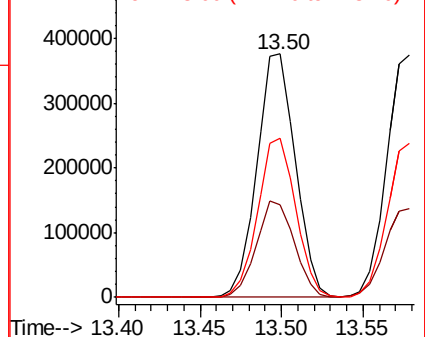
148 65.4 45.1 83.7



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



#64

1,4-Dichlorobenzene

Concen: 24.39 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

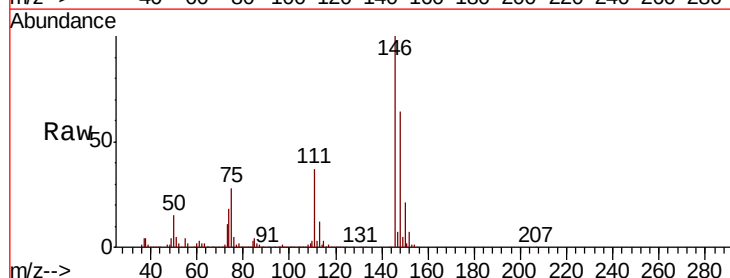
Tgt Ion:146 Resp: 615317

Ion Ratio Lower Upper

146 100

111 36.5 24.5 45.5

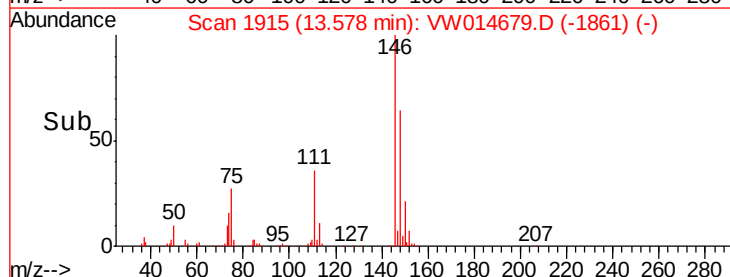
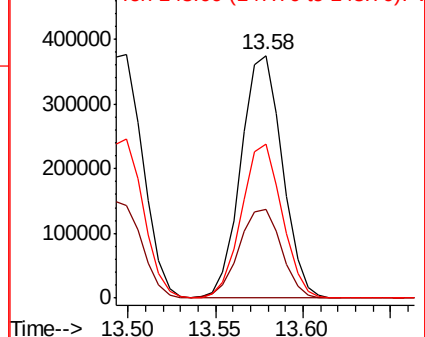
148 63.6 44.4 82.4

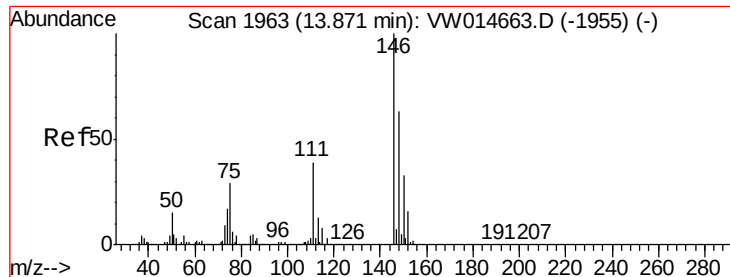


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

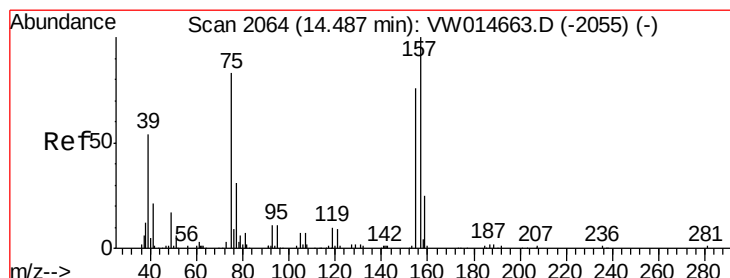
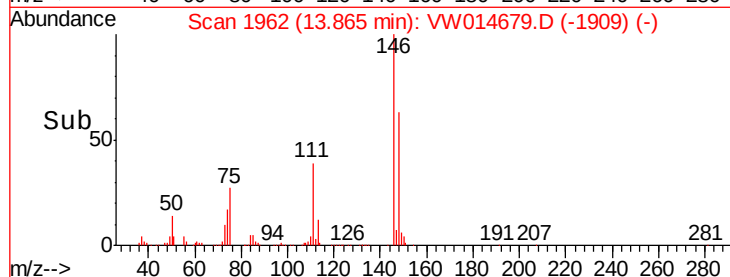
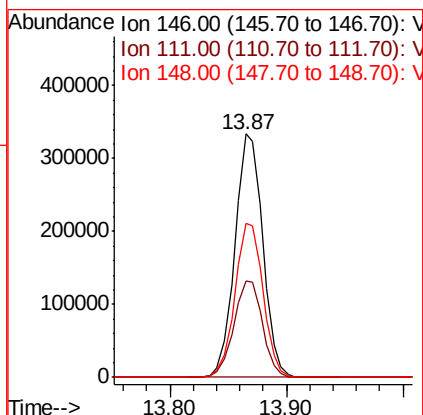
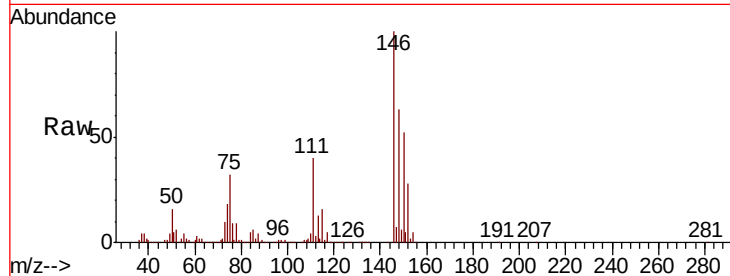




#65  
 1,2-Dichlorobenzene  
 Concen: 24.73 ug/L  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.01 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

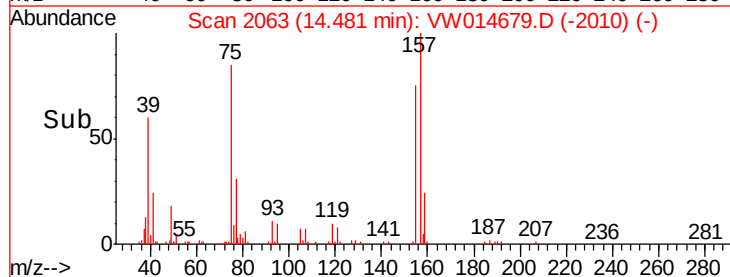
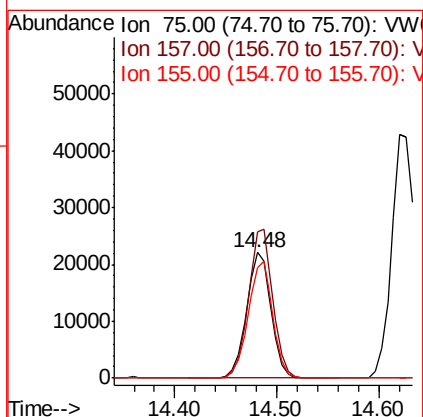
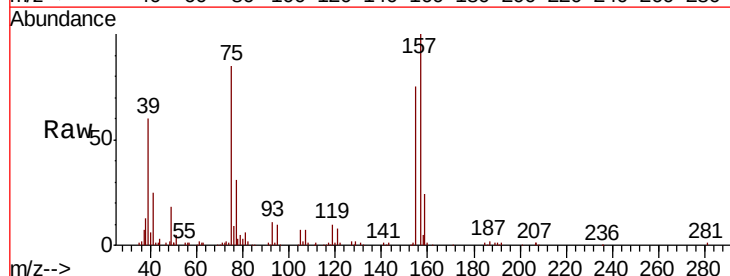
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02518

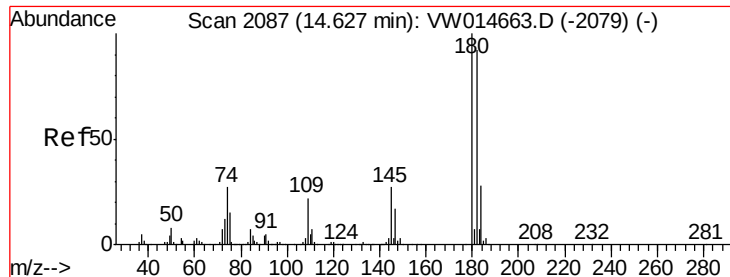
Tgt Ion:146 Resp: 554570  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 34.2 51.2  
 148 63.0 51.8 77.8



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 22.27 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

Tgt Ion: 75 Resp: 36989  
 Ion Ratio Lower Upper  
 75 100  
 157 117.2 87.2 130.8  
 155 87.9 67.8 101.8

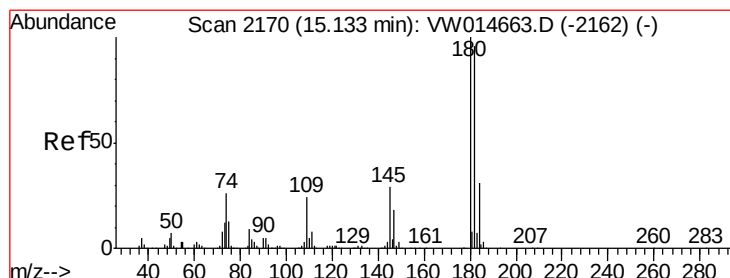
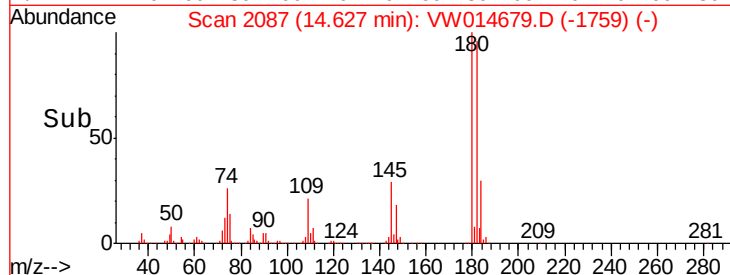
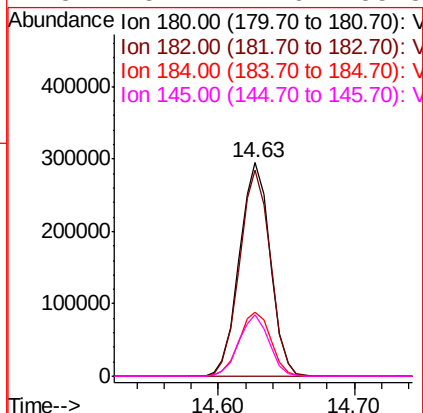
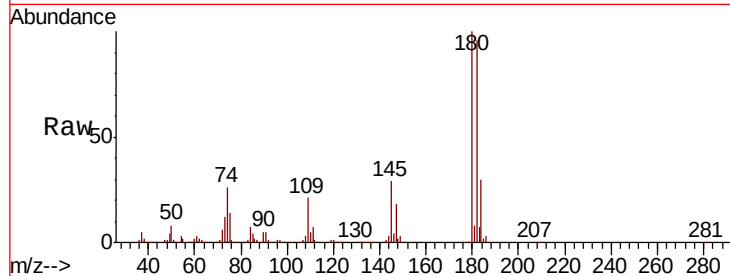




#67  
 1,3,5-Trichlorobenzene  
 Concen: 25.19 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

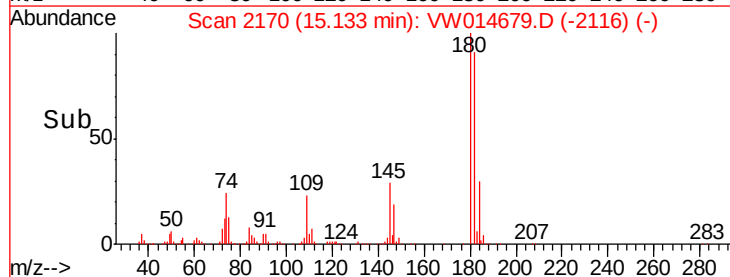
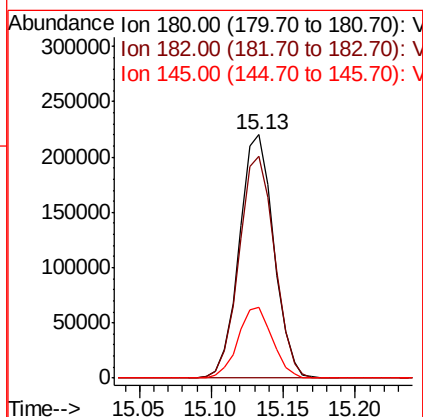
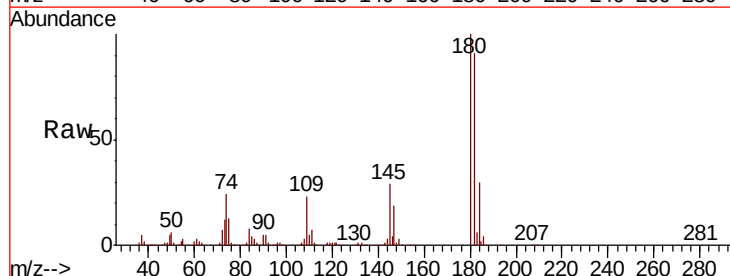
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02518

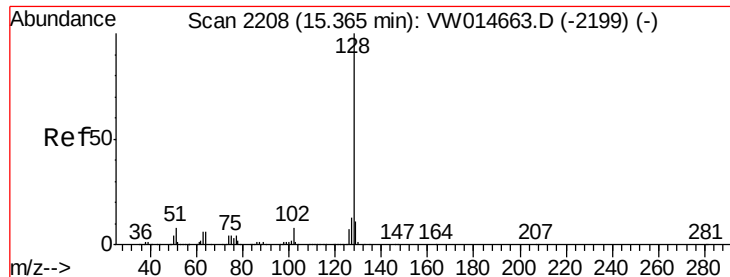
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 466876 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.6  | 75.8  | 113.6  |
| 184      | 31.0  | 24.0  | 36.0   |
| 145      | 28.1  | 22.6  | 33.8   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.32 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW014679.D  
 Acq: 17 Jan 2020 10:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 365577 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 93.7  | 76.2  | 114.4  |
| 145      | 29.1  | 23.1  | 34.7   |





#69

Naphthalene

Concen: 27.44 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02518

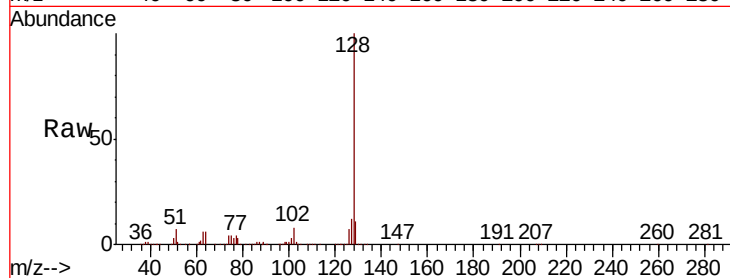
Tgt Ion:128 Resp: 658051

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

127 13.0 10.6 16.0

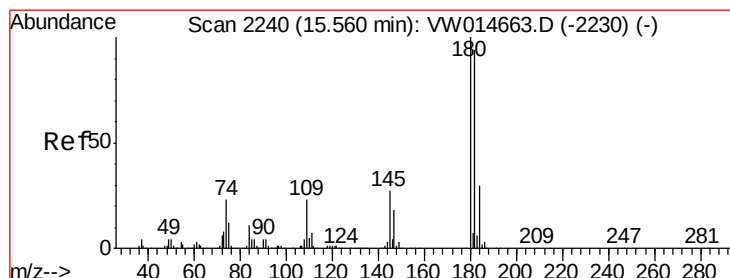
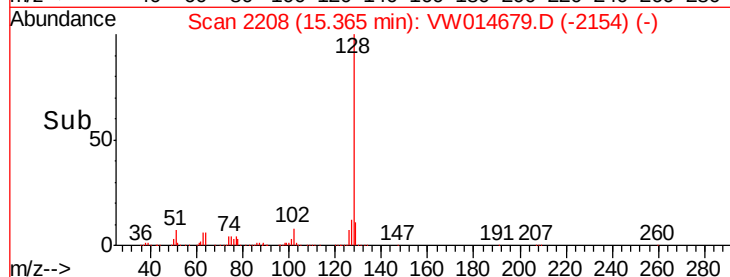
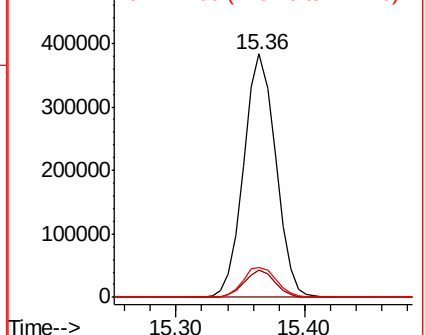


Abundance

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: 26.38 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW014679.D

Acq: 17 Jan 2020 10:07

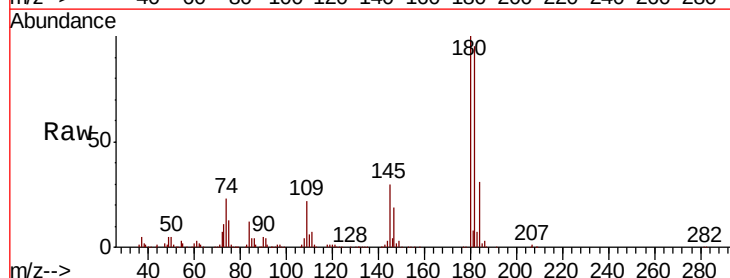
Tgt Ion:180 Resp: 332132

Ion Ratio Lower Upper

180 100

182 95.1 77.0 115.6

145 30.1 24.9 37.3



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

