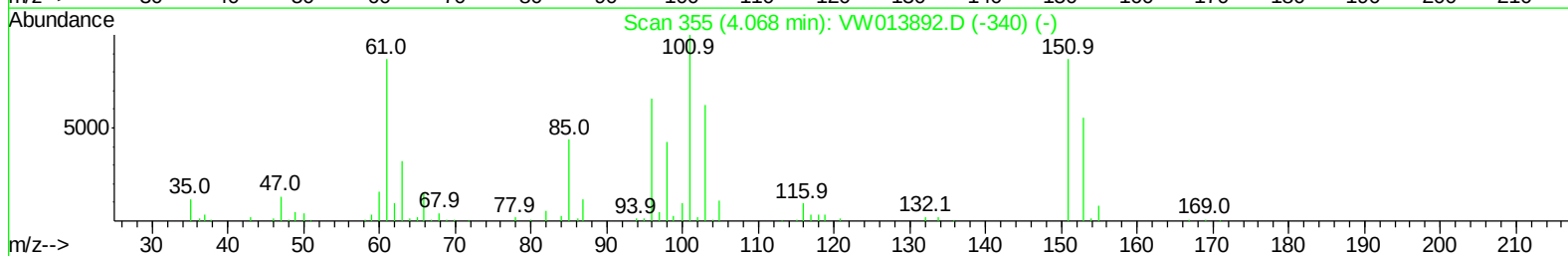
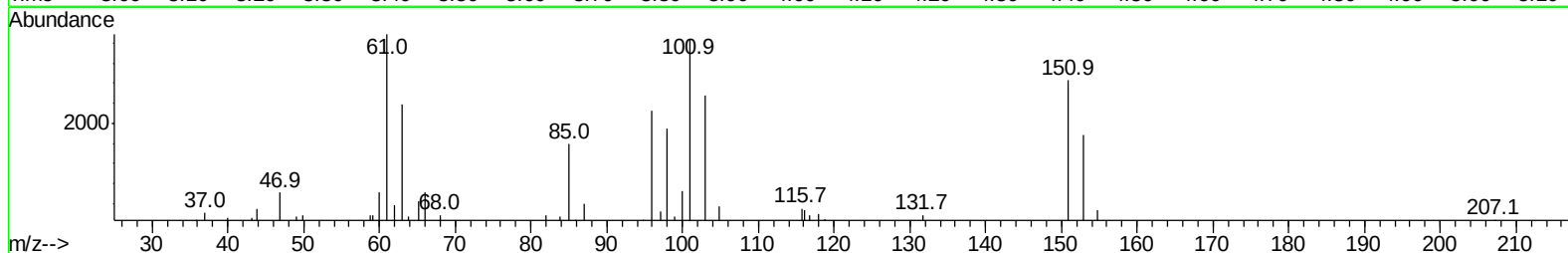
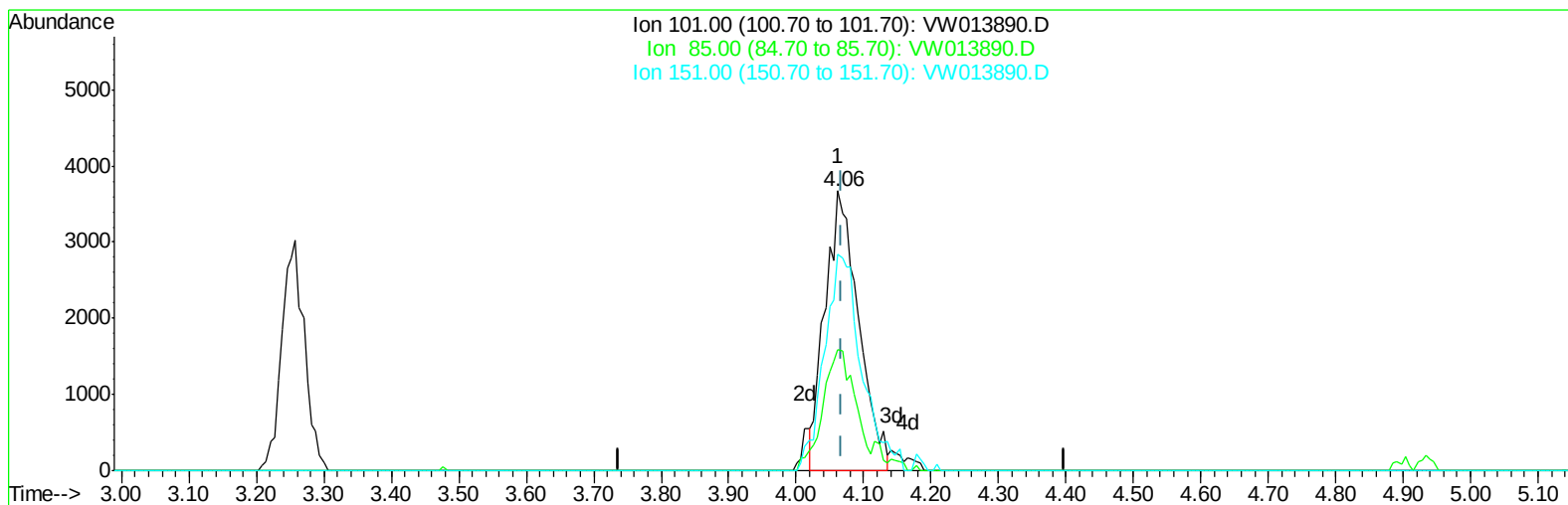


Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(11) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

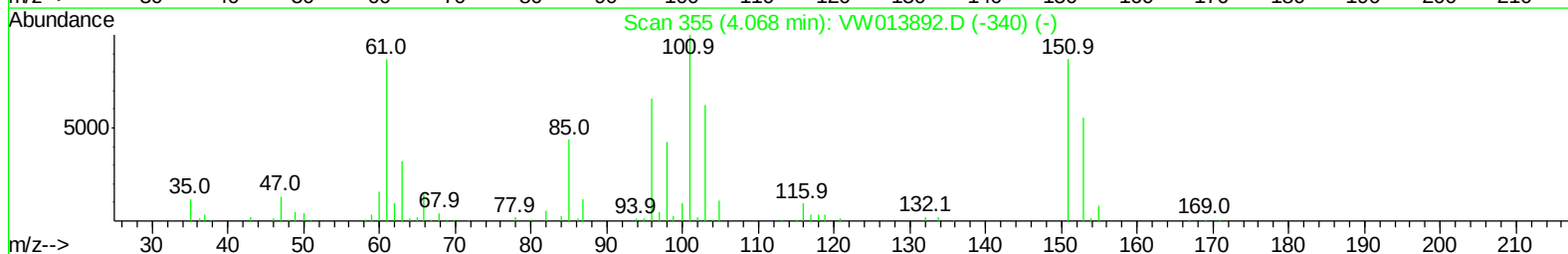
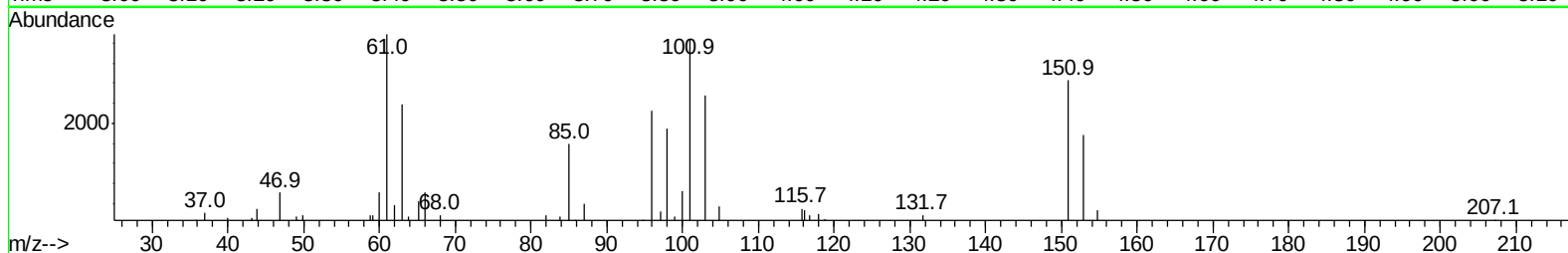
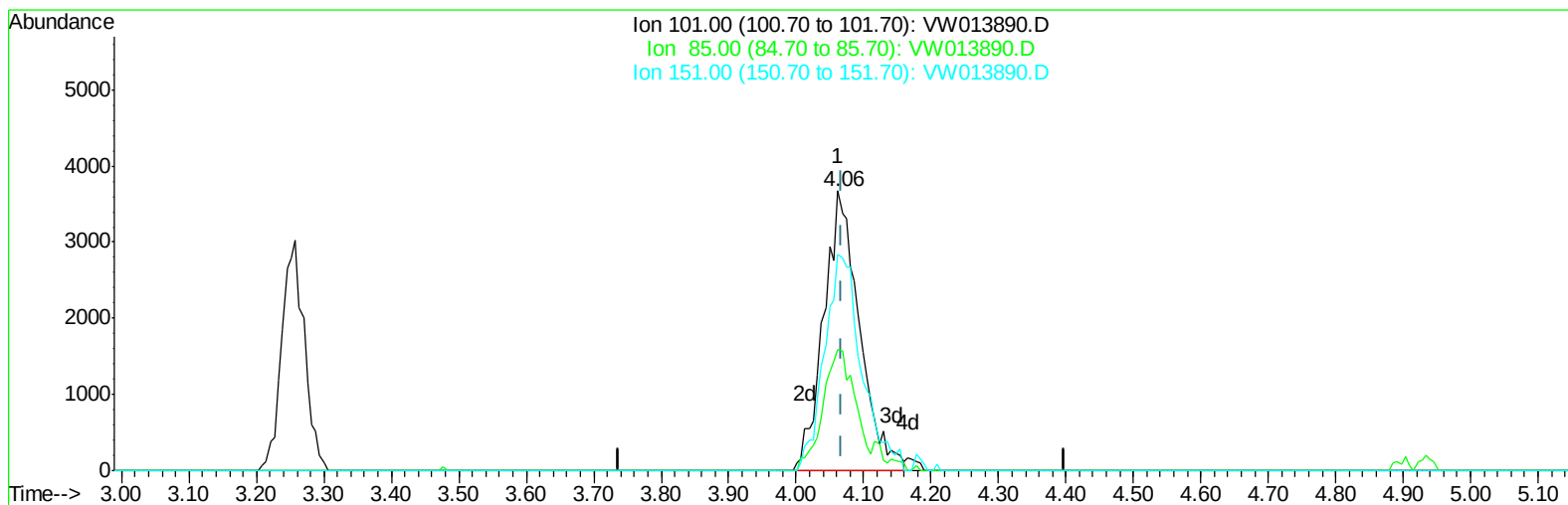
4.062min (-0.006) 2.58ug/L

response 12673

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 101.00 | 100   | 100   |
| 85.00  | 38.60 | 41.54 |
| 151.00 | 82.90 | 66.99 |
| 0.00   | 0.00  | 0.00  |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(11) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

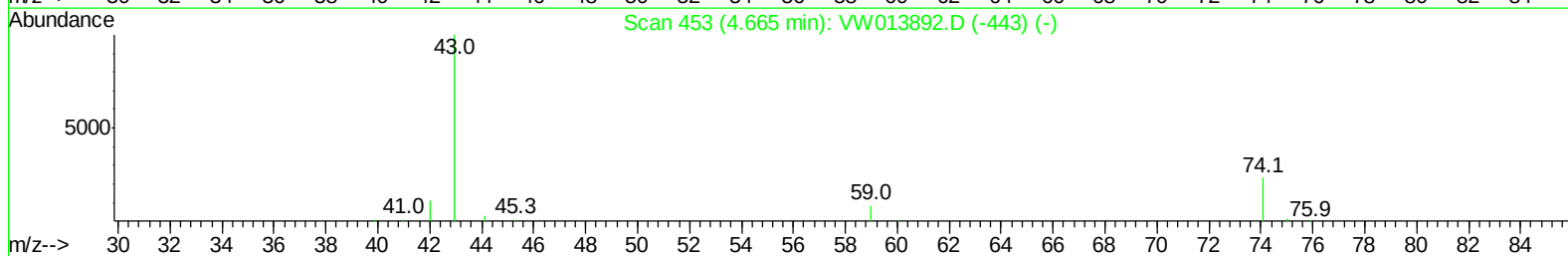
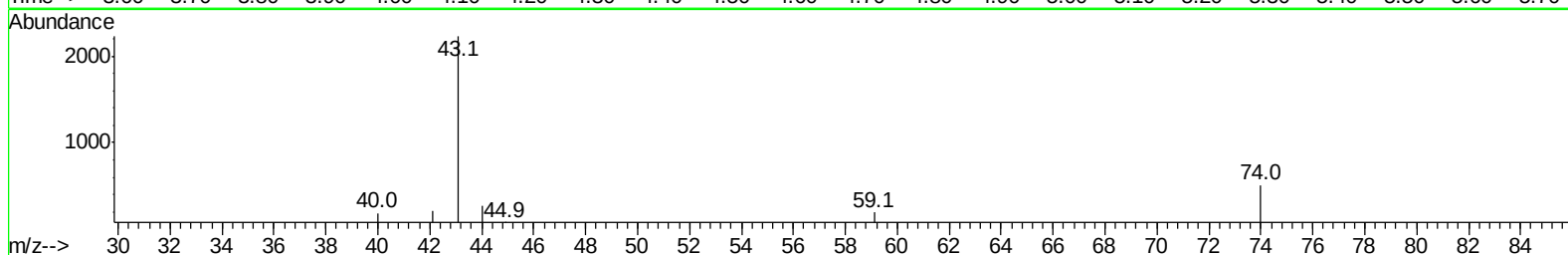
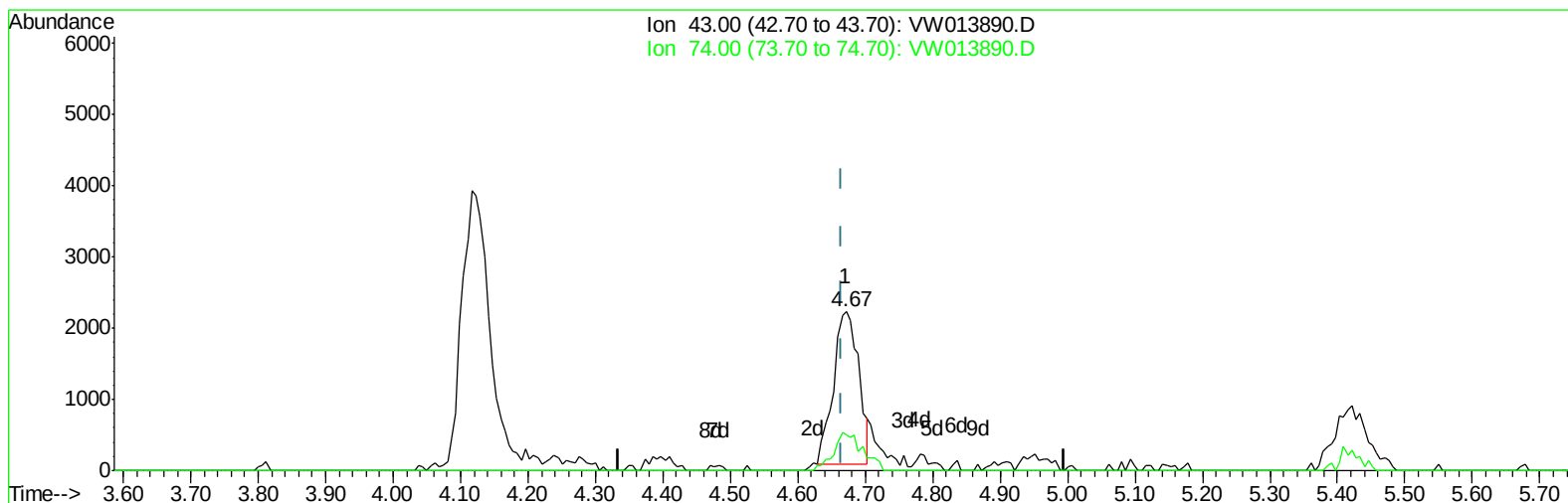
4.062min (-0.006) 2.74ug/L m

response 13473

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 101.00 | 100   | 100    |
| 85.00  | 38.60 | 39.07  |
| 151.00 | 82.90 | 63.01# |
| 0.00   | 0.00  | 0.00   |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(15) Methyl Acetate (T)

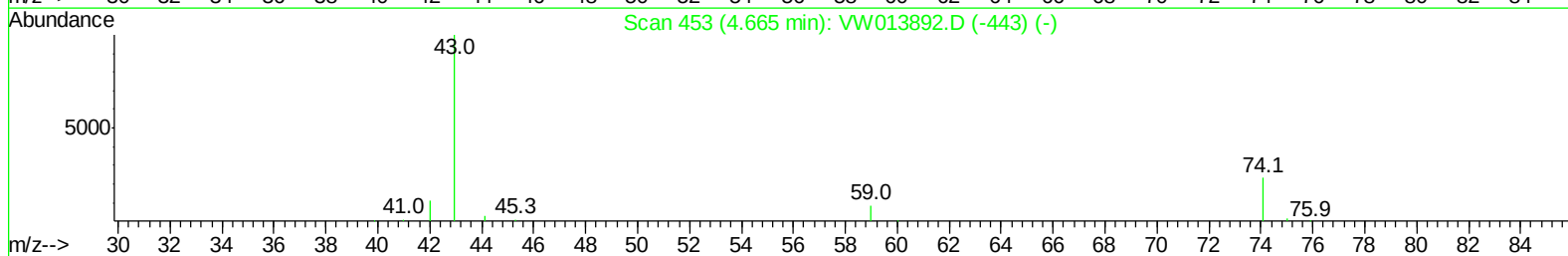
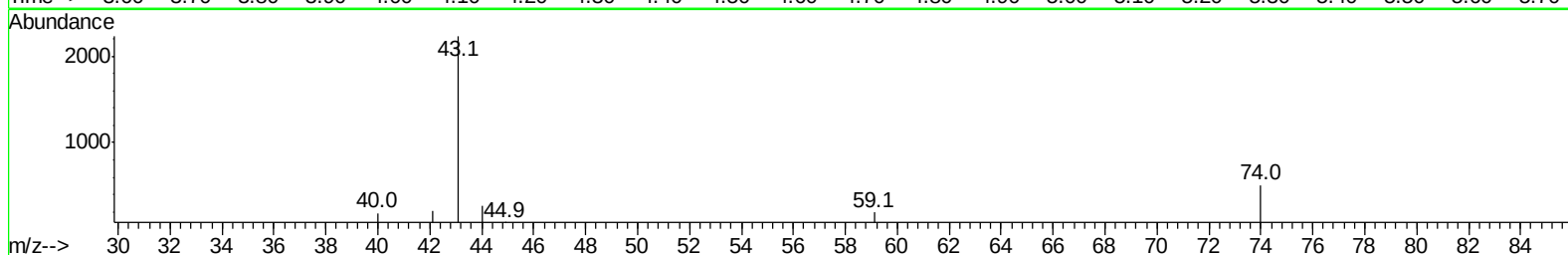
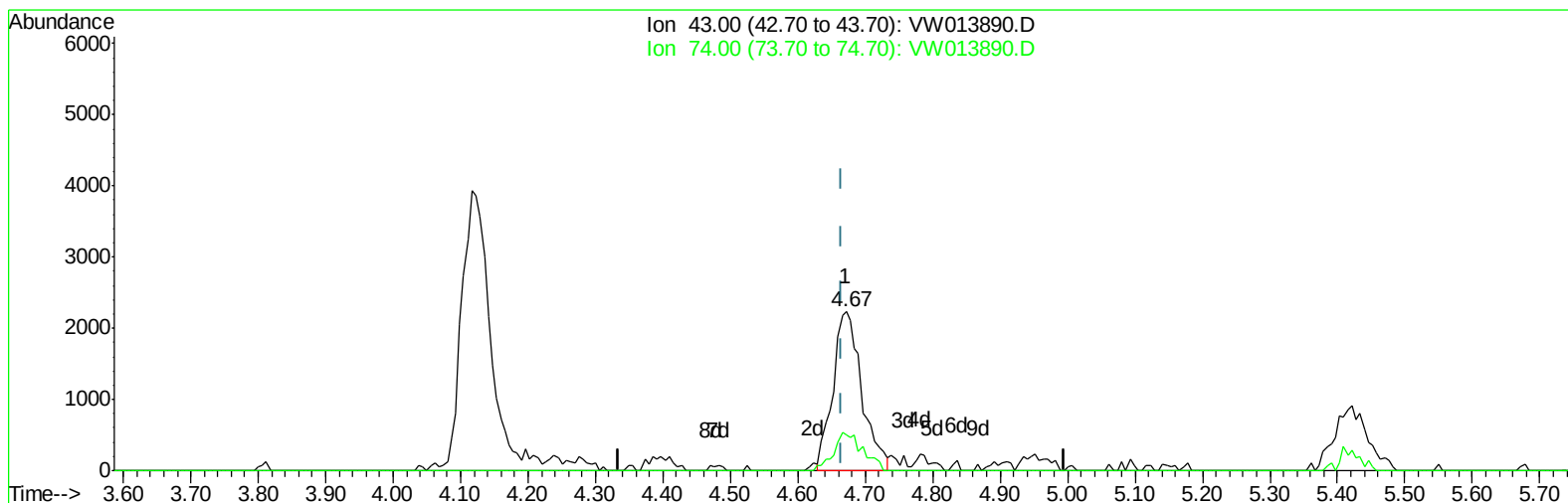
4.672min (+0.006) 2.04ug/L

response 5585

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 43.00 | 100   | 100    |
| 74.00 | 23.90 | 16.96# |
| 0.00  | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(15) Methyl Acetate (T)

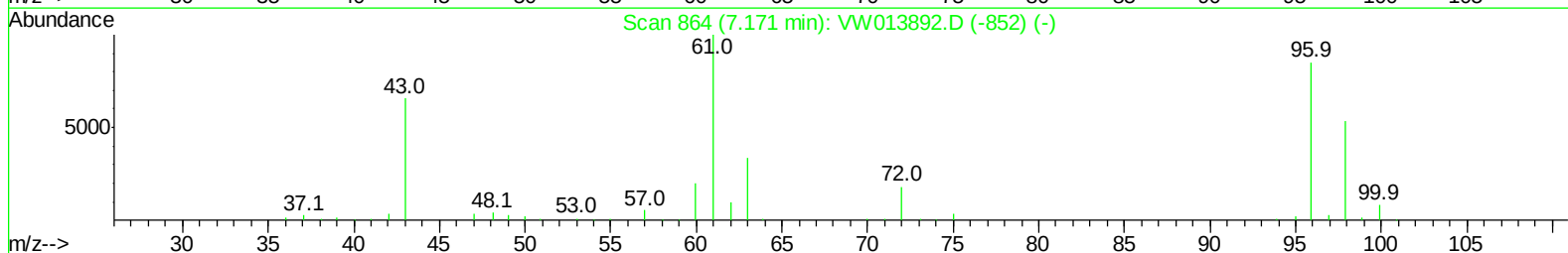
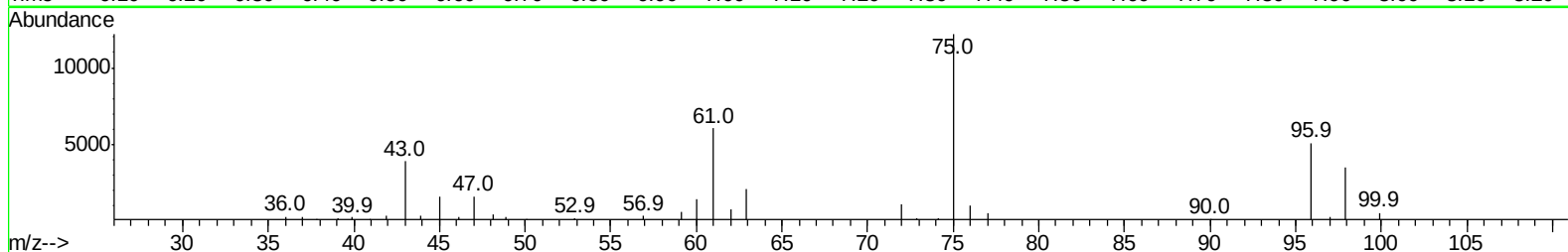
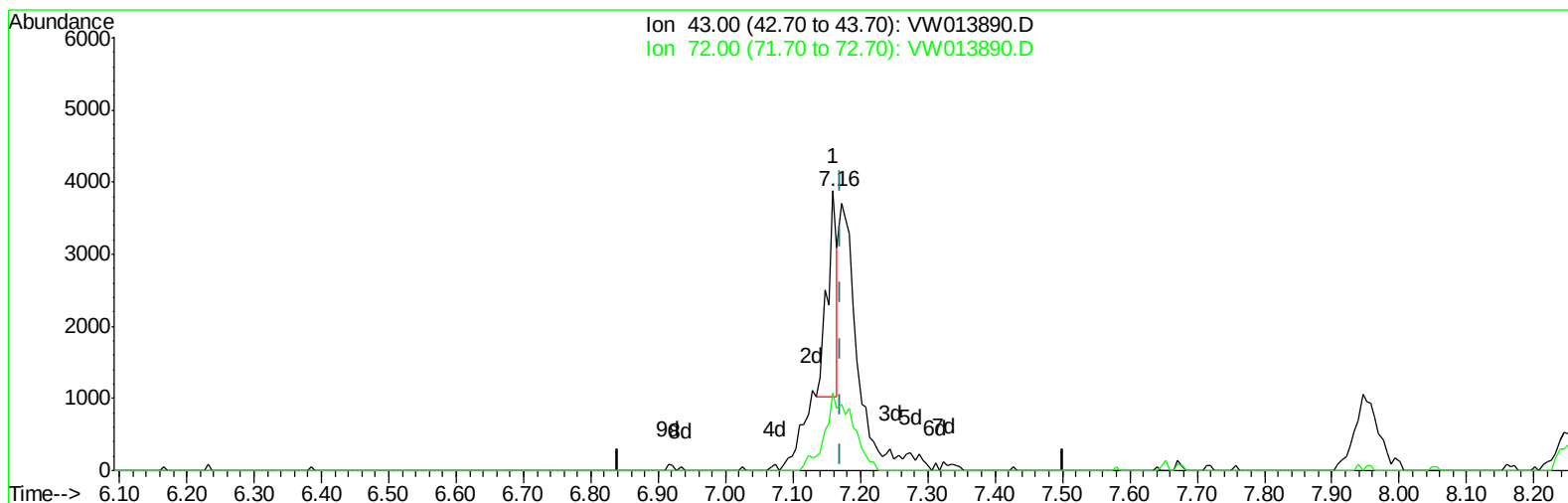
4.672min (+0.006) 2.42ug/L m

response 6648

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 43.00 | 100   | 100    |
| 74.00 | 23.90 | 14.24# |
| 0.00  | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(21) 2-Butanone

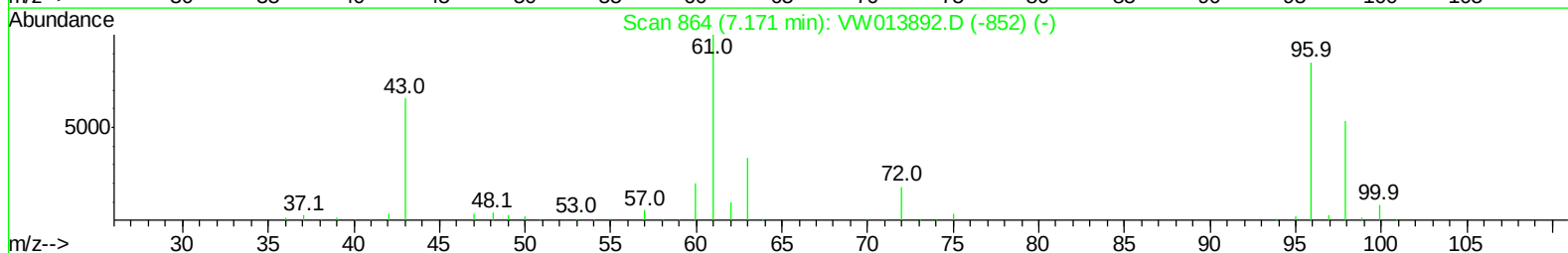
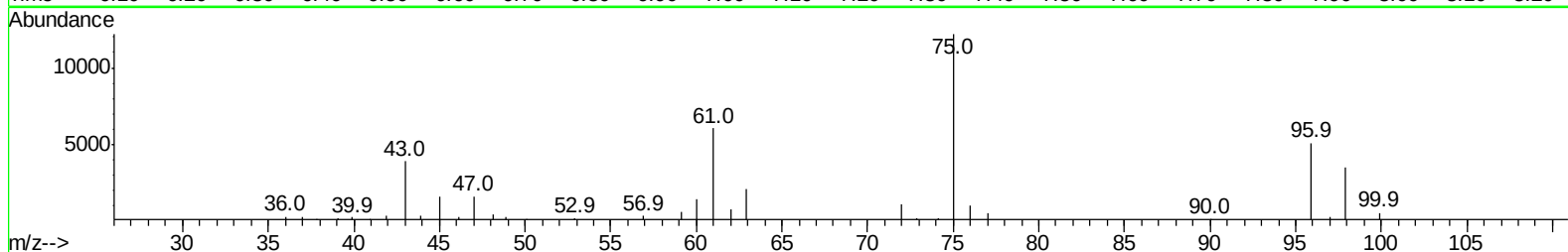
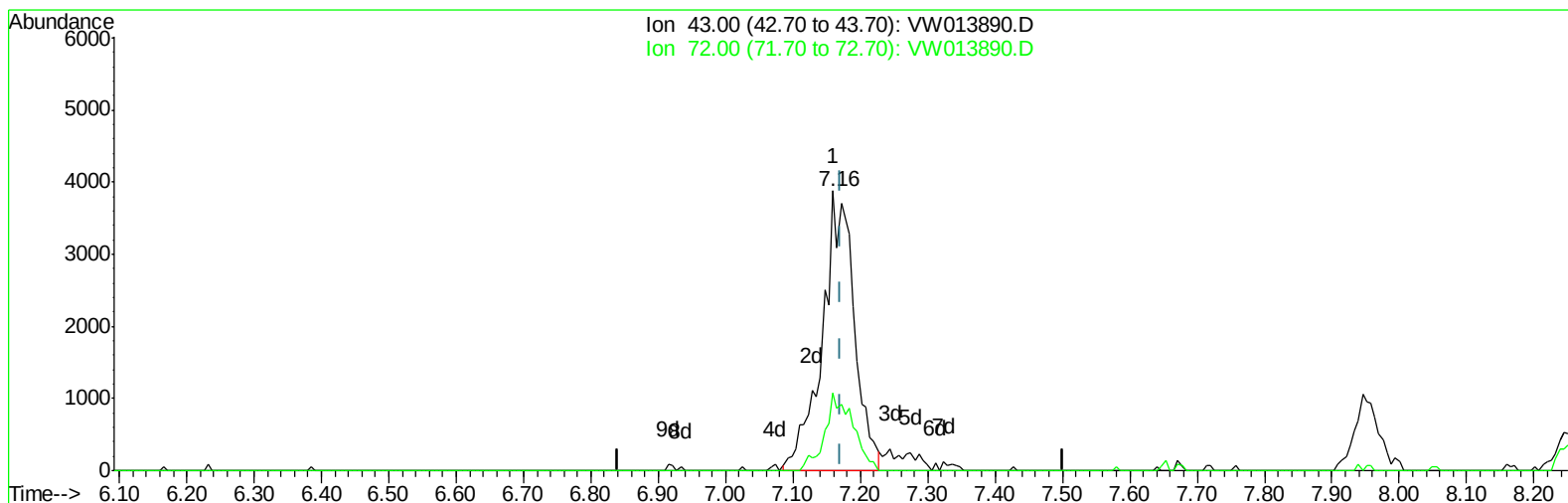
7.159min (-0.012) 1.35ug/L

response 2896

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 43.00 | 100   | 100    |
| 72.00 | 27.20 | 99.00# |
| 0.00  | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(21) 2-Butanone

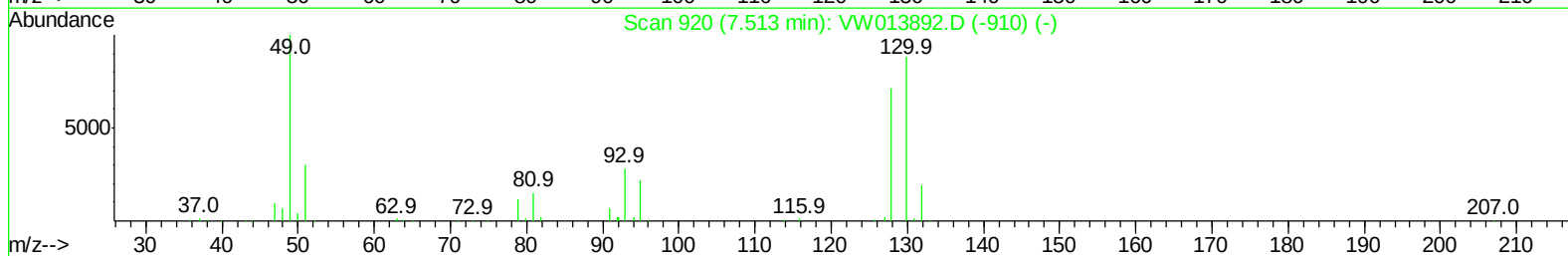
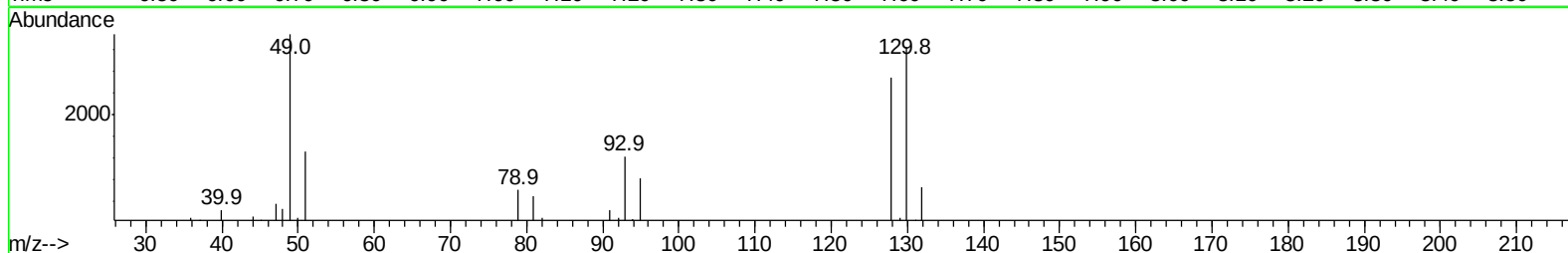
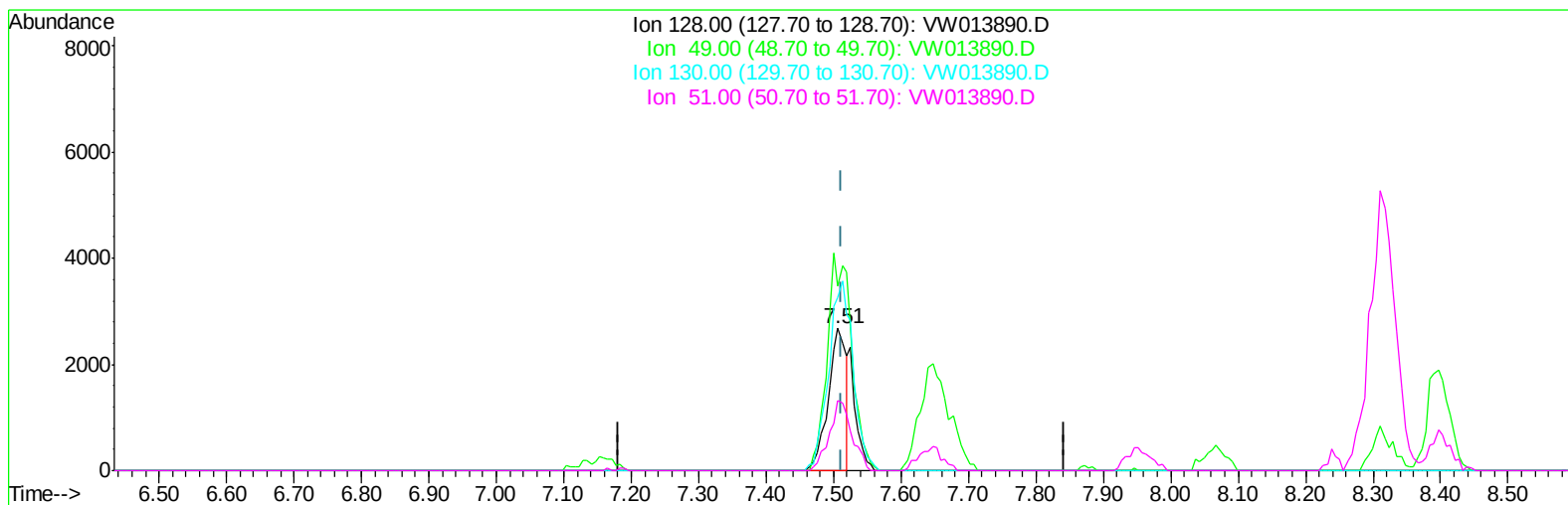
7.159min (-0.012) 6.00ug/L m

response 12822

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 27.20 | 22.36 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(23) Bromochloromethane (T)

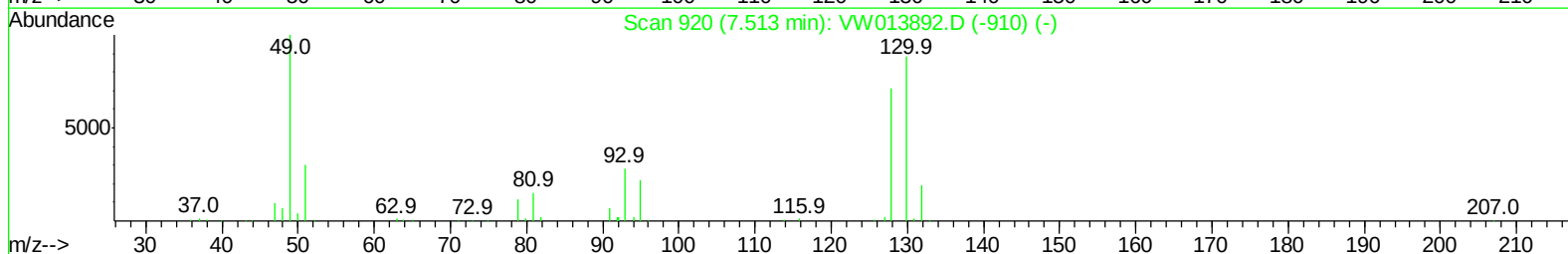
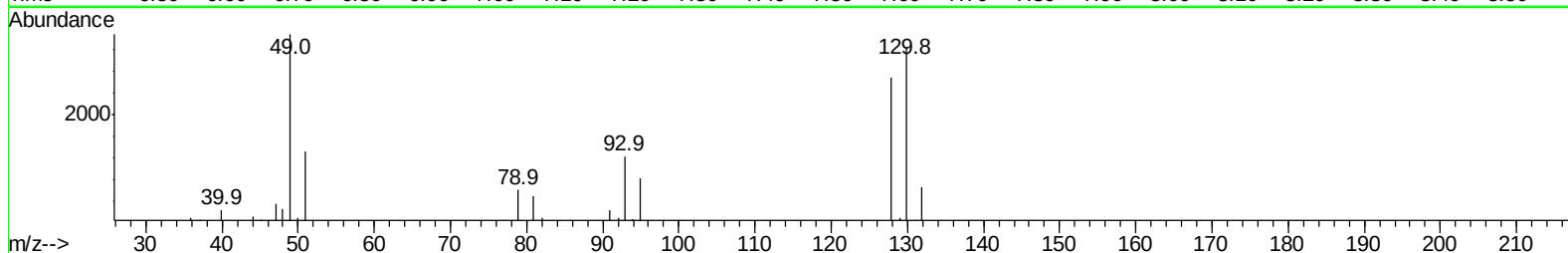
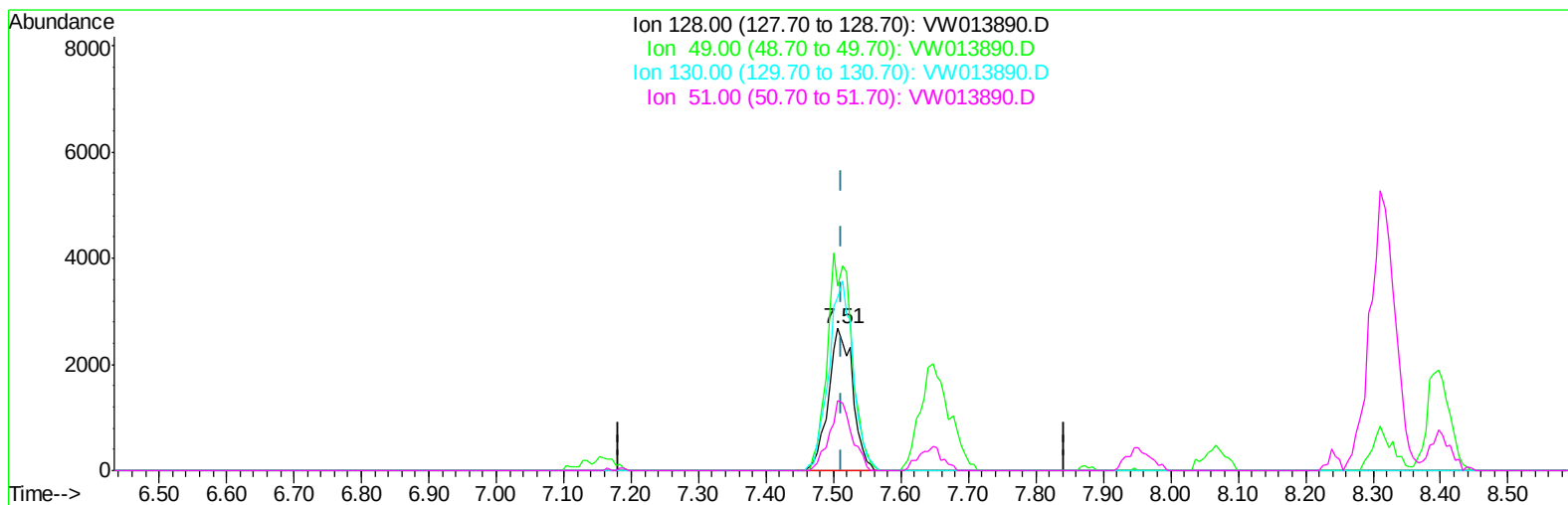
7.507min (-0.006) 1.89ug/L

response 4881

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100    | 100    |
| 49.00  | 141.00 | 129.55 |
| 130.00 | 124.00 | 121.09 |
| 51.00  | 42.70  | 49.25  |

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:24:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration



TIC: VW013890.D

(23) Bromochloromethane (T)

7.507min (-0.006) 2.60ug/L m

response 6699

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100    | 100    |
| 49.00  | 141.00 | 129.55 |
| 130.00 | 124.00 | 121.09 |
| 51.00  | 42.70  | 49.25  |



Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
Operator : SY/VA  
Sample : VSTD2.515  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:27:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 297529   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 290438   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 171451   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 12906 | 2.85 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 9580  | 2.70 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.03  | 63  | 25059 | 2.76 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.08  | 46  | 7352  | 4.62 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.64  | 84  | 24810 | 2.72 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 13657 | 2.76 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 50784 | 2.70 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 15769 | 2.80 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 47118 | 2.62 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 6756  | 2.62 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 5473  | 4.22 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 12954 | 2.53 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 18142 | 2.75 | ug/L | 0.00 |

#### Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.02  | 85  | 7935   | 2.412 ug/L   | 97     |
| 3) Chloromethane               | 2.21  | 50  | 9979   | 2.822 ug/L   | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 13690  | 2.730 ug/L   | 96     |
| 6) Bromomethane                | 2.78  | 94  | 8962   | 2.837 ug/L   | 96     |
| 8) Chloroethane                | 2.92  | 64  | 7561   | 2.670 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 7030   | 3.215 ug/L   | 96     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 13473m | 2.743 ug/L   |        |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 13166  | 2.673 ug/L   | 82     |
| 13) Acetone                    | 4.12  | 43  | 11033  | 7.406 ug/L   | 97     |
| 14) Carbon disulfide           | 4.39  | 76  | 36088  | 2.521 ug/L # | 93     |
| 15) Methyl Acetate             | 4.67  | 43  | 6648m  | 2.423 ug/L   |        |
| 16) Methylene chloride         | 4.92  | 84  | 16840  | 2.895 ug/L   | 94     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 15878  | 2.589 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 13474  | 2.611 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 23105  | 2.618 ug/L   | 97     |
| 21) 2-Butanone                 | 7.16  | 43  | 12822m | 5.998 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 13991  | 2.533 ug/L   | 99     |
| 23) Bromochloromethane         | 7.51  | 128 | 6699m  | 2.598 ug/L   |        |
| 25) Chloroform                 | 7.68  | 83  | 24172  | 2.728 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 15412  | 2.645 ug/L   | 99     |
| 30) Cyclohexane                | 7.96  | 56  | 21105  | 2.532 ug/L   | 99     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 18672  | 2.805 ug/L   | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 17757  | 2.680 ug/L   | 97     |
| 34) Benzene                    | 8.32  | 78  | 54226  | 2.692 ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 14362  | 2.702 ug/L   | 98     |
| 36) Methylcyclohexane          | 9.33  | 83  | 24555  | 2.669 ug/L   | 98     |
| 40) 1,2-Dichloropropane        | 9.36  | 63  | 13162  | 2.645 ug/L   | 98     |
| 41) Bromodichloromethane       | 9.64  | 83  | 16095  | 2.576 ug/L   | 98     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 19096  | 2.445 ug/L   | 96     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 19525  | 5.086 ug/L   | 95     |

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ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:27:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                    | 10.38 | 91   | 56024    | 2.576 | ug/L   | 94       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 15931    | 2.501 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 10661    | 2.658 | ug/L   | 85       |
| 47) Tetrachloroethene          | 10.86 | 164  | 13561    | 2.841 | ug/L   | 97       |
| 49) 2-Hexanone                 | 10.97 | 43   | 13549    | 4.932 | ug/L   | 95       |
| 50) Dibromochloromethane       | 11.13 | 129  | 11247    | 2.412 | ug/L   | 93       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 10042    | 2.558 | ug/L # | 96       |
| 52) Chlorobenzene              | 11.66 | 112  | 37233    | 2.640 | ug/L   | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 62442    | 2.601 | ug/L   | 92       |
| 54) m,p-Xylene                 | 11.84 | 106  | 23736    | 2.527 | ug/L   | 97       |
| 55) o-xylene                   | 12.16 | 106  | 22126    | 2.503 | ug/L   | 95       |
| 56) Styrene                    | 12.18 | 104  | 37889    | 2.498 | ug/L   | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 59574    | 2.518 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 13044    | 2.590 | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 9706     | 2.529 | ug/L   | 98       |
| 62) Bromoform                  | 12.35 | 173  | 7598     | 2.547 | ug/L   | 98       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 30282    | 2.706 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 31577    | 2.782 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 27425    | 2.651 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 2139     | 2.617 | ug/L # | 79       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 21686    | 2.519 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 17024    | 2.465 | ug/L   | 93       |
| 69) Naphthalene                | 15.36 | 128  | 26642    | 2.006 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 15403    | 2.413 | ug/L   | 98       |

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

Data File : VW013890.D  
Acq On : 01 Nov 2019 10:36  
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ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 12:27:23 2019  
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Response via : Initial Calibration

