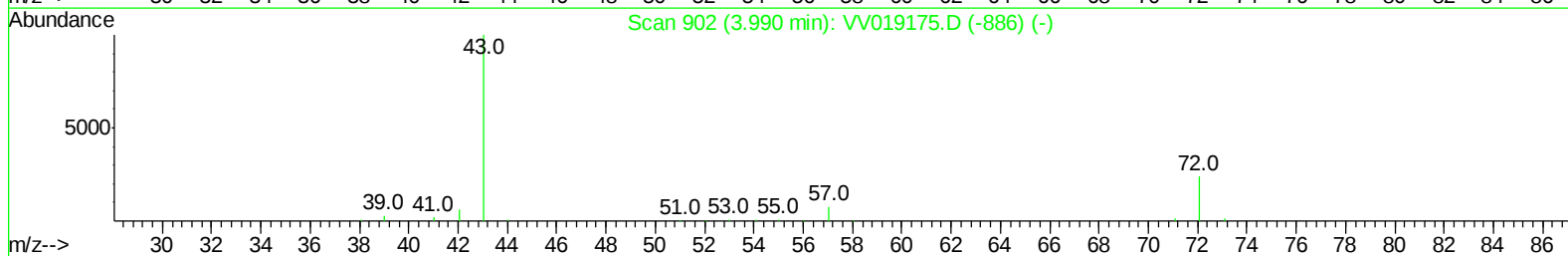
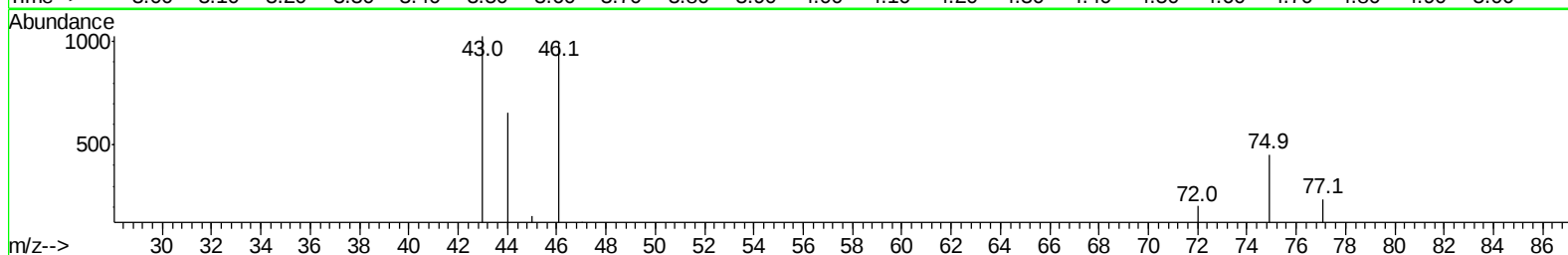
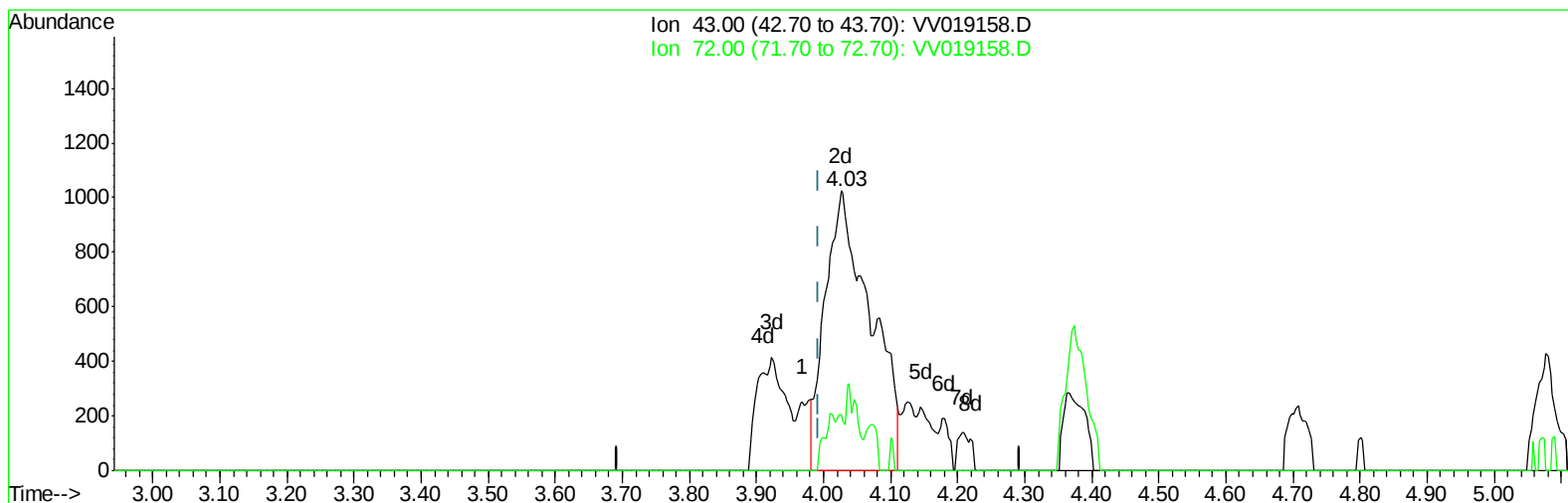


Data File : VV019158.D  
Acq On : 29 Oct 2020 20:24  
Operator : SY/MD  
Sample : MDL04  
Misc : 5.0g/5.0mL/100uL/5.0mL/MSVOA-V/MEOH  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 30 05:05:03 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 30 05:31:22 2020  
Response via : Initial Calibration



TIC: VV019158.D

(22) 2-Butanone (T)  
4.026min (+0.032) 4.39ug/L m  
response 4790

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 23.90 | 1.84# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 15:03:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 30 05:31:22 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 221574   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 210254   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 107890   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 86397    | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.14%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 68664    | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 126797   | 37.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.70%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 116929   | 108.42   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 108.42% |
| 24) Chloroform-d               | 4.38    | 84    | 165748   | 50.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.20% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 120688   | 52.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.76% |
| 32) Benzene-d6                 | 5.07    | 84    | 310714   | 52.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.20% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 96212    | 54.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 108.20% |
| 41) Toluene-d8                 | 7.34    | 98    | 285965   | 49.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.82%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51656    | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 100.40% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 81882    | 106.32   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 106.32% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 124445   | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 118816   | 52.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.84% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 4189  | 2.153 ug/L   | 100    |
| 3) Chloromethane               | 1.25 | 50  | 4049  | 2.292 ug/L   | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 4284  | 2.368 ug/L # | 56     |
| 6) Bromomethane                | 1.53 | 94  | 2840  | 2.344 ug/L   | 95     |
| 8) Chloroethane                | 1.60 | 64  | 2830  | 2.516 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 6194  | 2.055 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 3941  | 2.716 ug/L # | 78     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 4089  | 2.878 ug/L # | 1      |
| 13) Acetone                    | 2.20 | 43  | 4308  | 4.300 ug/L   | 93     |
| 14) Carbon disulfide           | 2.31 | 76  | 9971  | 2.208 ug/L   | 98     |
| 15) Methyl Acetate             | 2.46 | 43  | 3652  | 2.262 ug/L   | 94     |
| 16) Methylene chloride         | 2.52 | 84  | 4058  | 2.515 ug/L   | 96     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 3222  | 2.111 ug/L   | 92     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 11617 | 2.273 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 6552m | 2.304 ug/L   |        |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 3748m | 2.238 ug/L   |        |
| 22) 2-Butanone                 | 4.03 | 43  | 4790m | 4.389 ug/L   |        |

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ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 15:03:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 30 05:31:22 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.29  | 128  | 1962     | 2.183 | ug/L   | 87       |
| 25) Chloroform                 | 4.40  | 83   | 8862     | 2.884 | ug/L   | 94       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 6484     | 2.479 | ug/L   | 99       |
| 29) Cyclohexane                | 4.70  | 56   | 4407     | 1.878 | ug/L # | 88       |
| 30) 1,1,1-Trichloroethane      | 4.63  | 97   | 6045     | 2.122 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 5376     | 2.128 | ug/L   | 94       |
| 33) Benzene                    | 5.13  | 78   | 13888    | 2.291 | ug/L   | 100      |
| 34) Trichloroethene            | 5.95  | 95   | 3363     | 2.025 | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.15  | 83   | 4708     | 2.100 | ug/L   | 94       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 2966     | 1.970 | ug/L # | 85       |
| 38) Bromodichloromethane       | 6.54  | 83   | 4811     | 2.148 | ug/L # | 95       |
| 39) cis-1,3-Dichloropropene    | 7.06  | 75   | 5434m    | 2.185 | ug/L   |          |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 9226     | 4.442 | ug/L   | 98       |
| 42) Toluene                    | 7.41  | 91   | 18481    | 2.781 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 5972m    | 2.309 | ug/L   |          |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 3477     | 2.303 | ug/L   | 95       |
| 46) Tetrachloroethene          | 8.00  | 164  | 2744     | 1.935 | ug/L   | 95       |
| 48) 2-Hexanone                 | 8.17  | 43   | 8247     | 4.996 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.27  | 129  | 4133     | 2.261 | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.38  | 107  | 3603     | 2.237 | ug/L # | 98       |
| 51) Chlorobenzene              | 8.90  | 112  | 9114     | 2.092 | ug/L   | 95       |
| 52) Ethylbenzene               | 9.04  | 91   | 14798    | 2.021 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 5587     | 2.020 | ug/L   | 96       |
| 54) o-xylene                   | 9.57  | 106  | 5145     | 1.937 | ug/L   | 93       |
| 55) Styrene                    | 9.59  | 104  | 8172     | 1.736 | ug/L   | 98       |
| 56) Isopropylbenzene           | 9.96  | 105  | 12327    | 1.727 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 5352     | 2.328 | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 4414     | 2.243 | ug/L   | 99       |
| 61) Bromoform                  | 9.75  | 173  | 3078     | 2.313 | ug/L # | 37       |
| 62) 1,3-Dichlorobenzene        | 11.21 | 146  | 7082     | 2.081 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 7906     | 2.235 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 7561     | 2.243 | ug/L   | 92       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 1368     | 2.372 | ug/L # | 78       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 4926     | 1.966 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 4729     | 2.015 | ug/L   | 95       |
| 69) Naphthalene                | 13.53 | 128  | 10918    | 1.661 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 4473     | 1.947 | ug/L   | 98       |
| -----                          |       |      |          |       |        |          |

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

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