

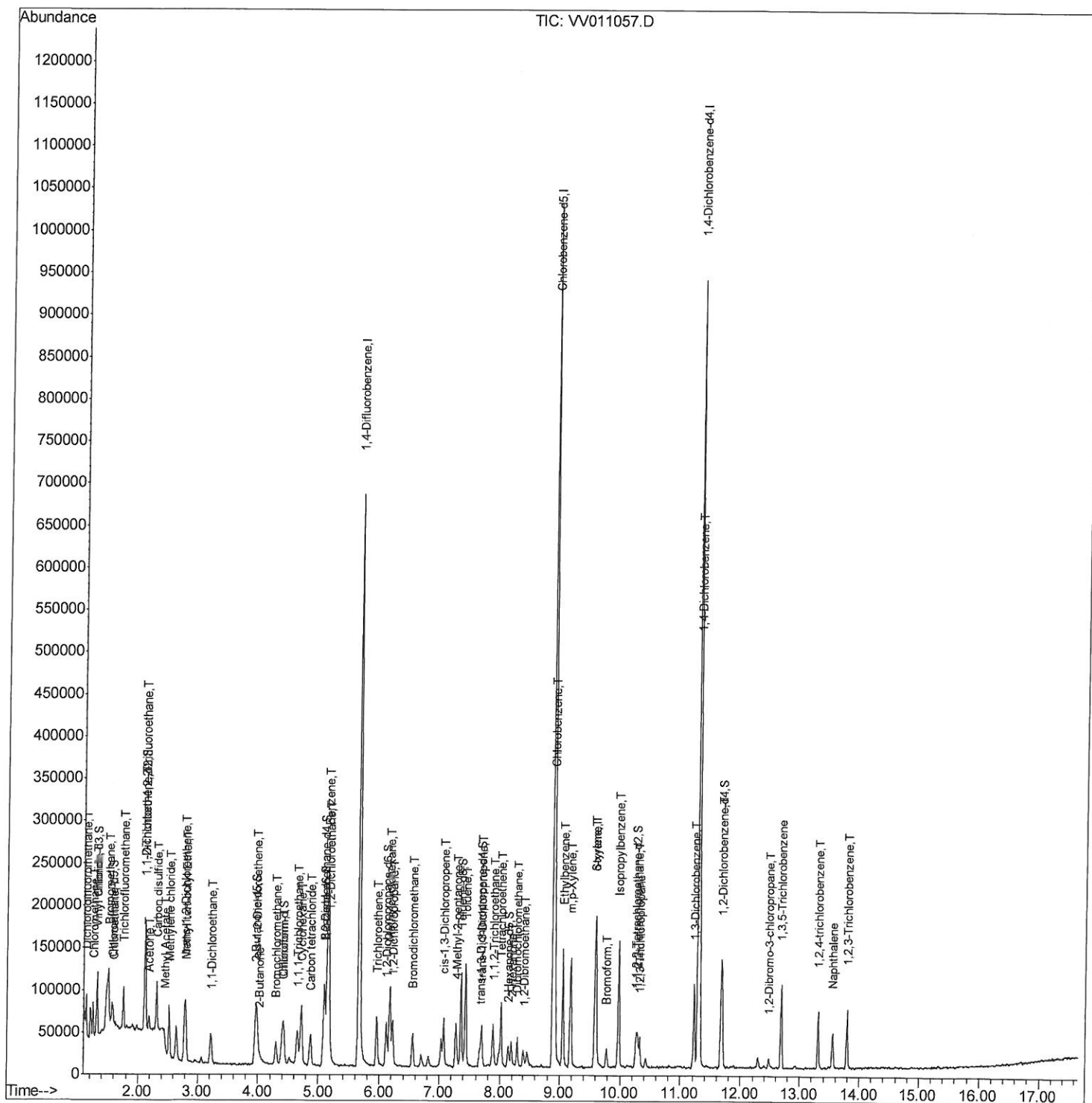
Data File : VV011057.D  
Acq On : 28 May 2019 10:31  
Operator : SY/MD  
Sample : VSTD2.566  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD2.566

## Manual Integrations

MMDadoda  
5/29/2019 3:42:38 PM

Quant Time: May 28 11:56:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis  
QLast Update : Tue May 28 11:51:54 2019  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV052819\  
Quantitation Report (Qedit)

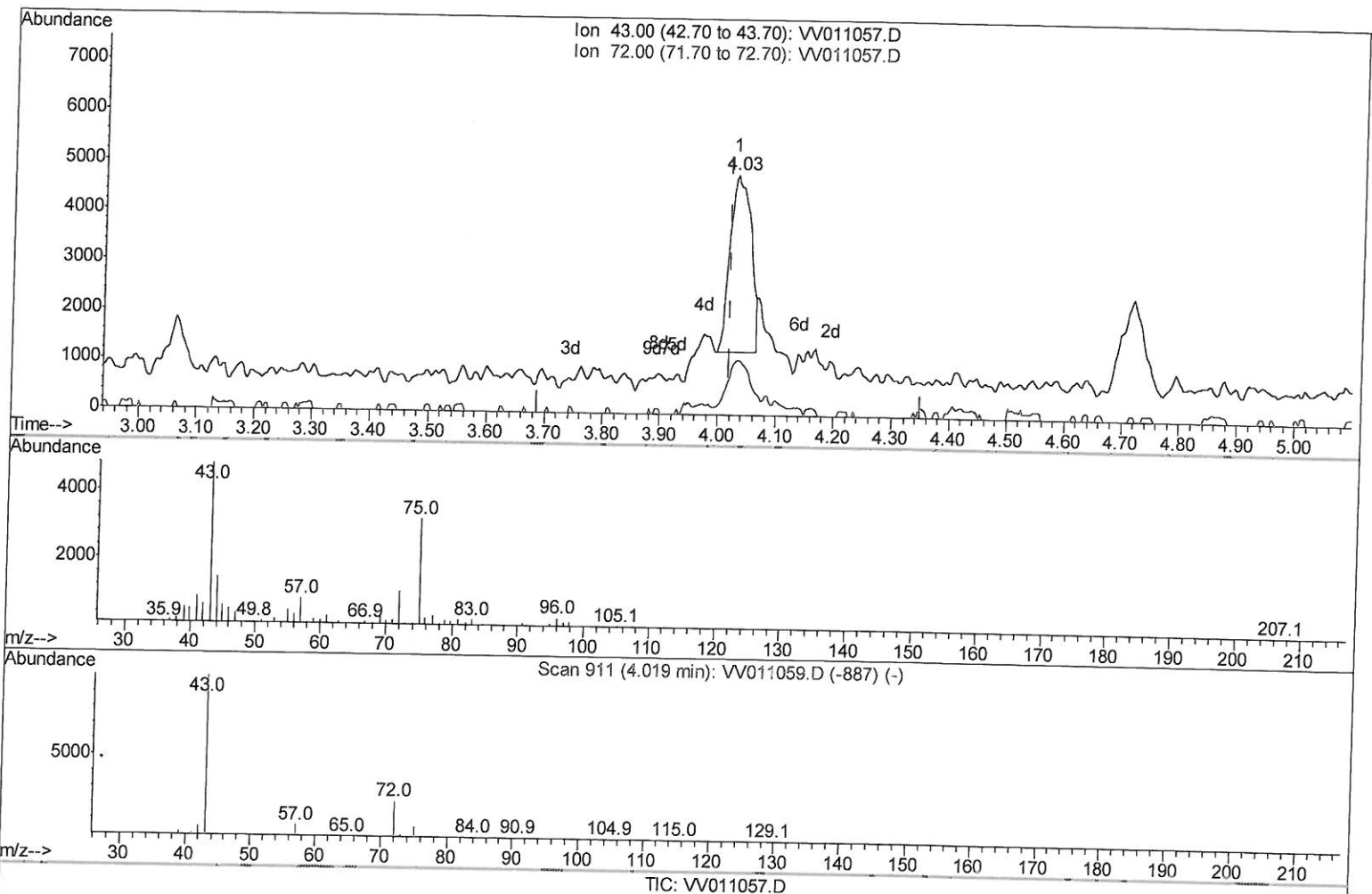
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(21) 2-Butanone

4.029min (+0.010) 2.98ug/L

response 8842

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 21.30 | 27.99 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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Quant Title : VOC Analysis

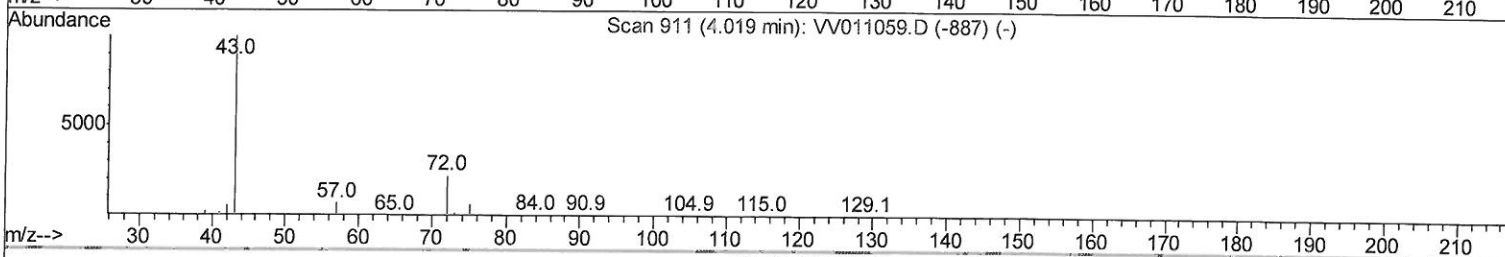
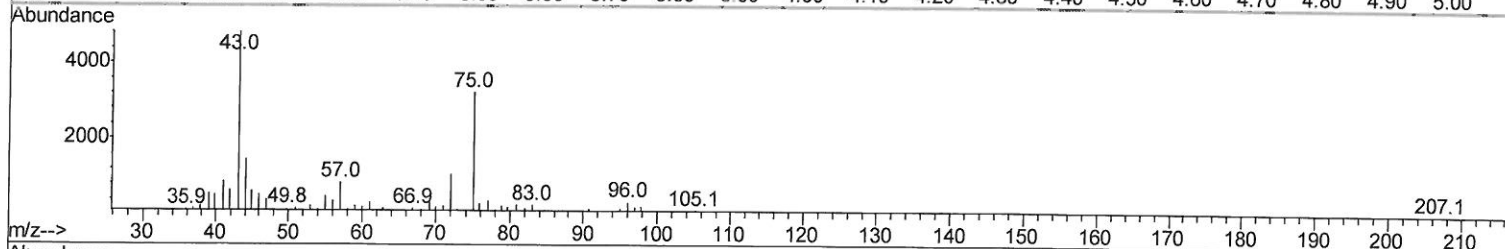
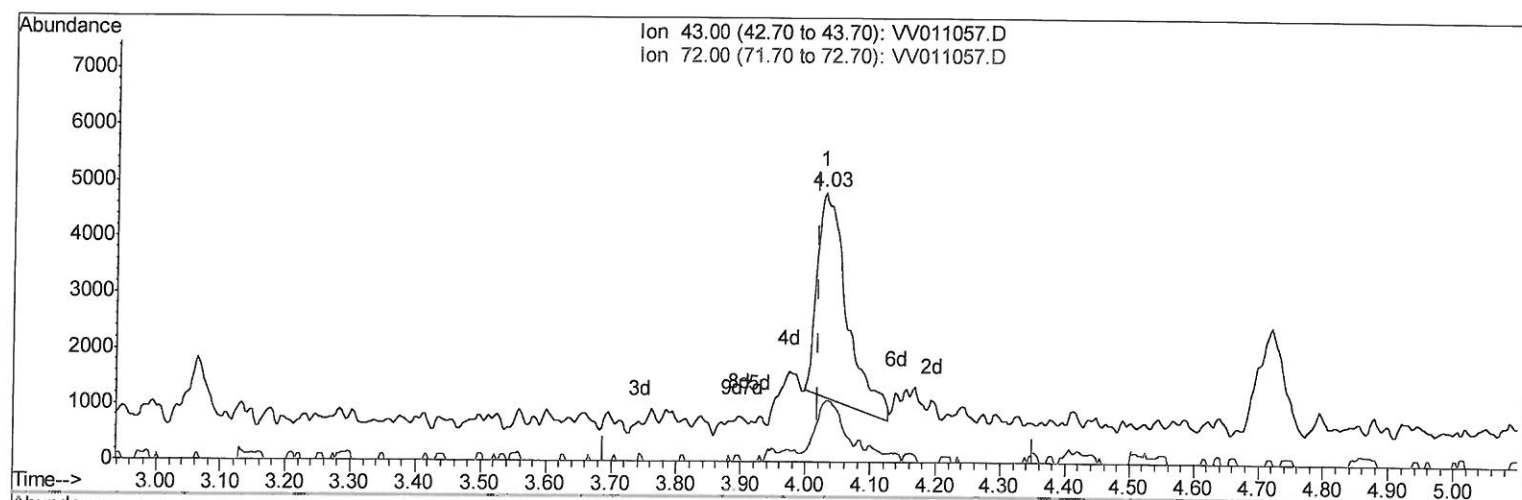
QLast Update : Tue May 28 11:51:54 2019

Response via : Initial Calibration

Instrument :  
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ClientSampleId :  
VSTD2.566

Manual Integrations  
APPROVED

MMDadoda  
5/29/2019 3:42:38 PM



TIC: VV011057.D

(21) 2-Butanone

4.029min (+0.010) 3.90ug/L m

response 11563

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 21.30 | 21.40 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV052819\  
Quantitation Report (QT Reviewed)

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Operator : SY/MD  
Sample : VSTD2.566  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD2.566

Manual Integrations  
APPROVED

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Quant Title : VOC Analysis  
QLast Update : Tue May 28 11:51:54 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 570980   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 524094   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 231359   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                               |       |     |       |      |      |      |
|-------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3          | 1.31  | 65  | 21573 | 3.31 | ug/L | 0.00 |
| 7) Chloroethane-d5            | 1.56  | 69  | 15127 | 3.43 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2     | 2.12  | 63  | 38482 | 3.07 | ug/L | 0.00 |
| 20) 2-Butanone-d5             | 3.95  | 46  | 10077 | 4.49 | ug/L | 0.02 |
| 24) Chloroform-d              | 4.40  | 84  | 36294 | 2.45 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4     | 5.08  | 65  | 20286 | 2.33 | ug/L | 0.00 |
| 29) Benzene-d6                | 5.09  | 84  | 79476 | 2.78 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6    | 6.11  | 67  | 23694 | 2.61 | ug/L | 0.00 |
| 37) Toluene-d8                | 7.36  | 98  | 72843 | 2.74 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene | 7.67  | 79  | 10466 | 2.80 | ug/L | 0.00 |
| 39) 2-Hexanone-d5             | 8.13  | 63  | 9268  | 5.47 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane | 10.26 | 84  | 18374 | 2.02 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4    | 11.67 | 152 | 23937 | 2.55 | ug/L | 0.00 |

Target Compounds

|                                |      |     |        |            | Qvalue |
|--------------------------------|------|-----|--------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 22355  | 2.652 ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 21056  | 2.758 ug/L | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 20041  | 2.613 ug/L | 91     |
| 6) Bromomethane                | 1.51 | 94  | 9558   | 3.574 ug/L | 95     |
| 8) Chloroethane                | 1.58 | 64  | 10573  | 2.755 ug/L | 95     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 26971  | 2.207 ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 15752  | 2.260 ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 14761  | 2.450 ug/L | 96     |
| 13) Acetone                    | 2.19 | 43  | 13584  | 6.271 ug/L | 95     |
| 14) Carbon disulfide           | 2.31 | 76  | 48236  | 2.859 ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 11502  | 2.764 ug/L | # 100  |
| 16) Methylene chloride         | 2.53 | 84  | 21922  | 2.237 ug/L | 90     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 48919  | 2.295 ug/L | 96     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 19480  | 2.344 ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 37596  | 2.484 ug/L | 97     |
| 21) 2-Butanone                 | 4.03 | 43  | 11563m | 3.901 ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 21576  | 2.331 ug/L | 98     |
| 23) Bromochloromethane         | 4.30 | 128 | 9176   | 2.092 ug/L | 91     |
| 25) Chloroform                 | 4.42 | 83  | 38943  | 2.274 ug/L | 97     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 22897  | 2.175 ug/L | # 94   |
| 30) Cyclohexane                | 4.72 | 56  | 40219  | 3.693 ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 4.65 | 97  | 30300  | 2.570 ug/L | 98     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 26822  | 2.495 ug/L | 95     |
| 34) Benzene                    | 5.14 | 78  | 81028  | 2.682 ug/L | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 21207  | 2.541 ug/L | 96     |
| 36) Methylcyclohexane          | 6.17 | 83  | 38601  | 3.128 ug/L | 98     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 20672  | 2.604 ug/L | # 97   |
| 41) Bromodichloromethane       | 6.55 | 83  | 25196  | 2.374 ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 32614  | 2.760 ug/L | 99     |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 34753  | 6.106 ug/L | 100    |

05/31/19 SY

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Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                    | 7.43  | 91   | 87115    | 2.598 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 26420    | 2.654 | ug/L   | 100      |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 14845    | 2.194 | ug/L   | 94       |
| 47) Tetrachloroethene          | 8.02  | 164  | 15571    | 2.390 | ug/L   | 96       |
| 49) 2-Hexanone                 | 8.19  | 43   | 19722    | 4.746 | ug/L   | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 16423    | 2.062 | ug/L   | 97       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 13448    | 2.055 | ug/L # | 94       |
| 52) Chlorobenzene              | 8.92  | 112  | 52484    | 2.284 | ug/L   | 96       |
| 53) Ethylbenzene               | 9.05  | 91   | 98632    | 2.700 | ug/L   | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 36906    | 2.592 | ug/L   | 92       |
| 55) o-xylene                   | 9.59  | 106  | 35132    | 2.586 | ug/L   | 95       |
| 56) Styrene                    | 9.60  | 104  | 56782    | 2.425 | ug/L   | 98       |
| 57) Isopropylbenzene           | 9.97  | 105  | 96000    | 2.679 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 18171    | 2.040 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 13919    | 2.127 | ug/L   | 98       |
| 62) Bromoform                  | 9.77  | 173  | 9184     | 2.236 | ug/L   | 100      |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 38325    | 2.429 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 38120    | 2.346 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 35701    | 2.333 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 3379     | 2.780 | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 27576    | 2.382 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 19052    | 2.082 | ug/L   | 99       |
| 69) Naphthalene                | 13.55 | 128  | 32554    | 1.775 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 17176    | 1.923 | ug/L   | 98       |

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