

Quantitation Report (QT Reviewed)

Quant Time: Mar 26 14:15:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 14:05:09 2019  
Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

MMDadoda



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV032619\  
Quantitation Report (Qedit)

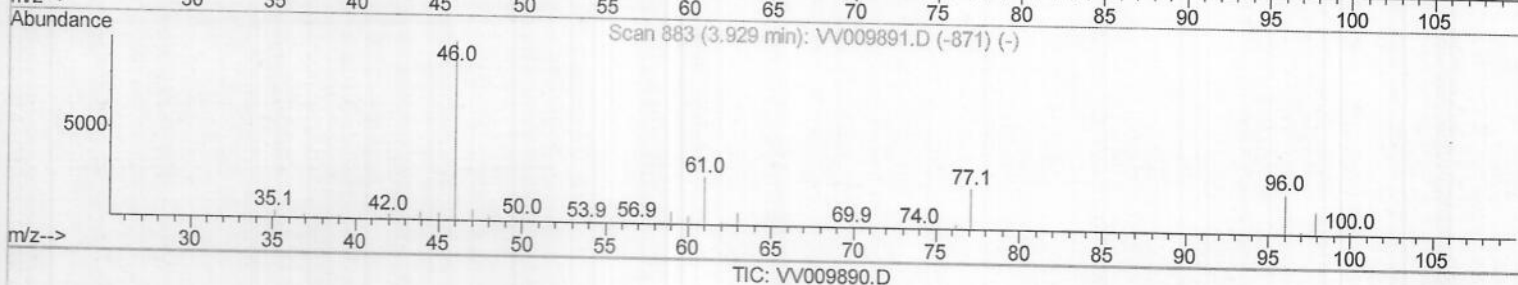
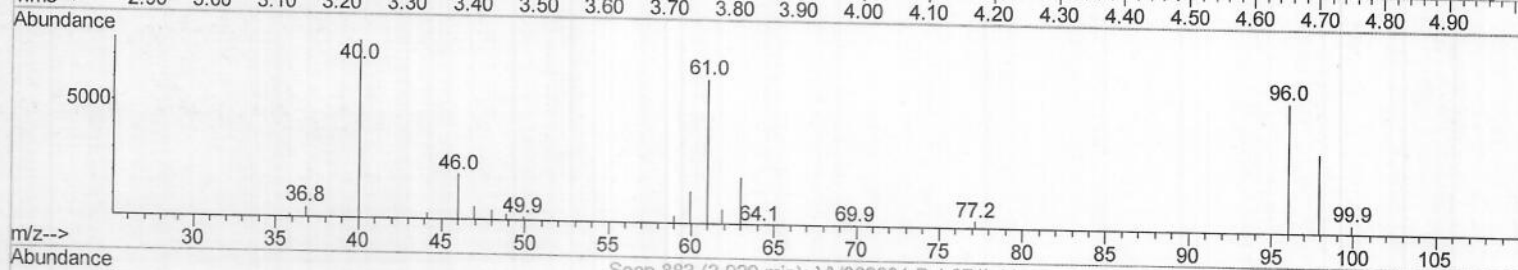
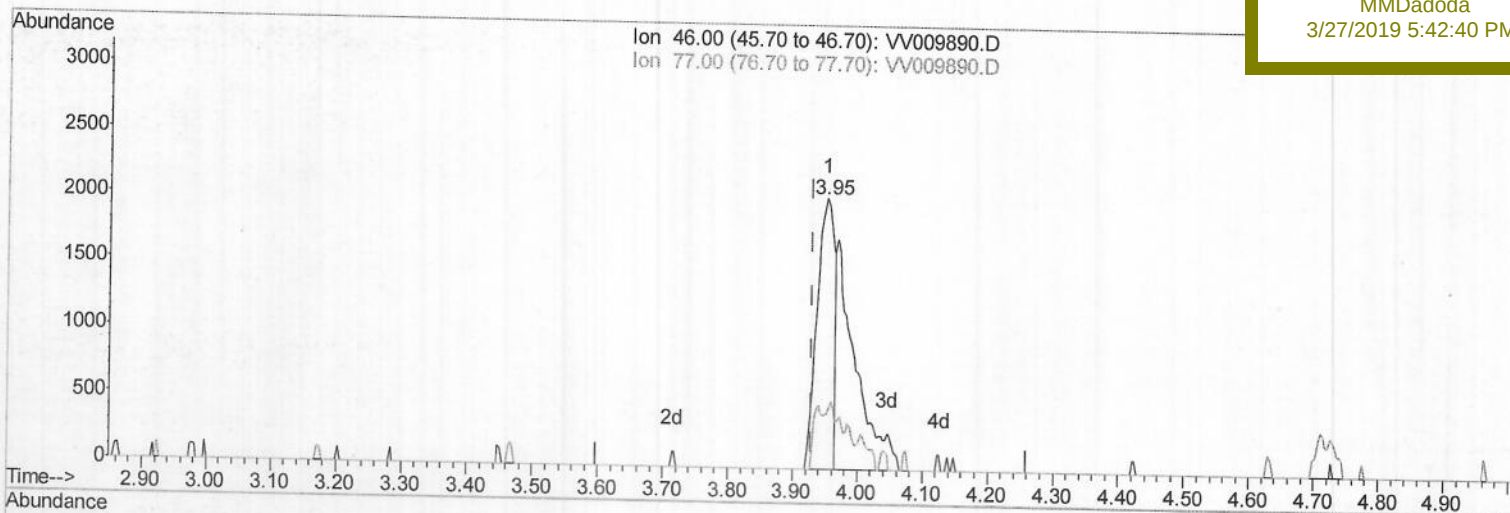
Data File : VV009890.D  
Acq On : 26 Mar 2019 12:24  
Operator : SY/MD  
Sample : VSTD00561  
Misc : 5.00G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

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3/27/2019 5:42:40 PM



(20) 2-Butanone-d5 (S)

3.952min (+0.023) 5.56ug/L

response 3763

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 23.10 | 8.85# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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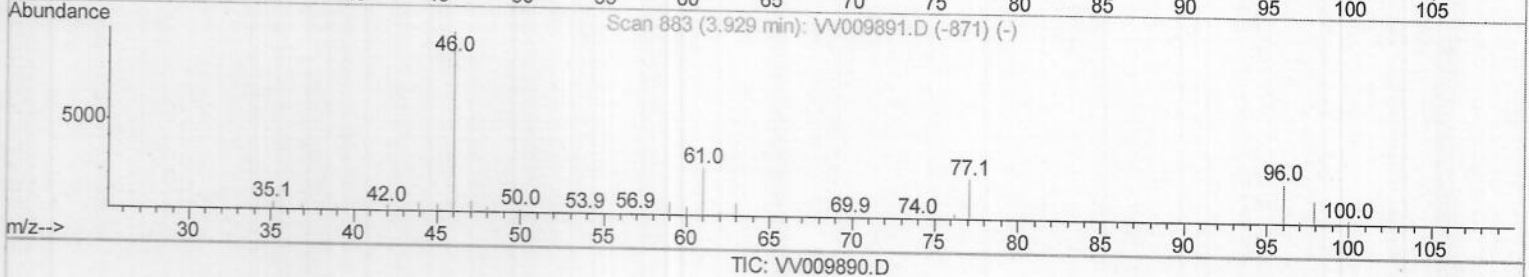
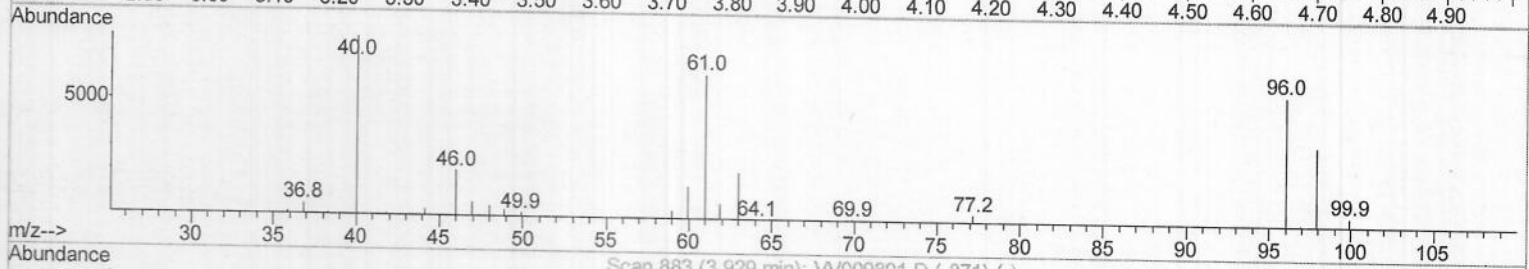
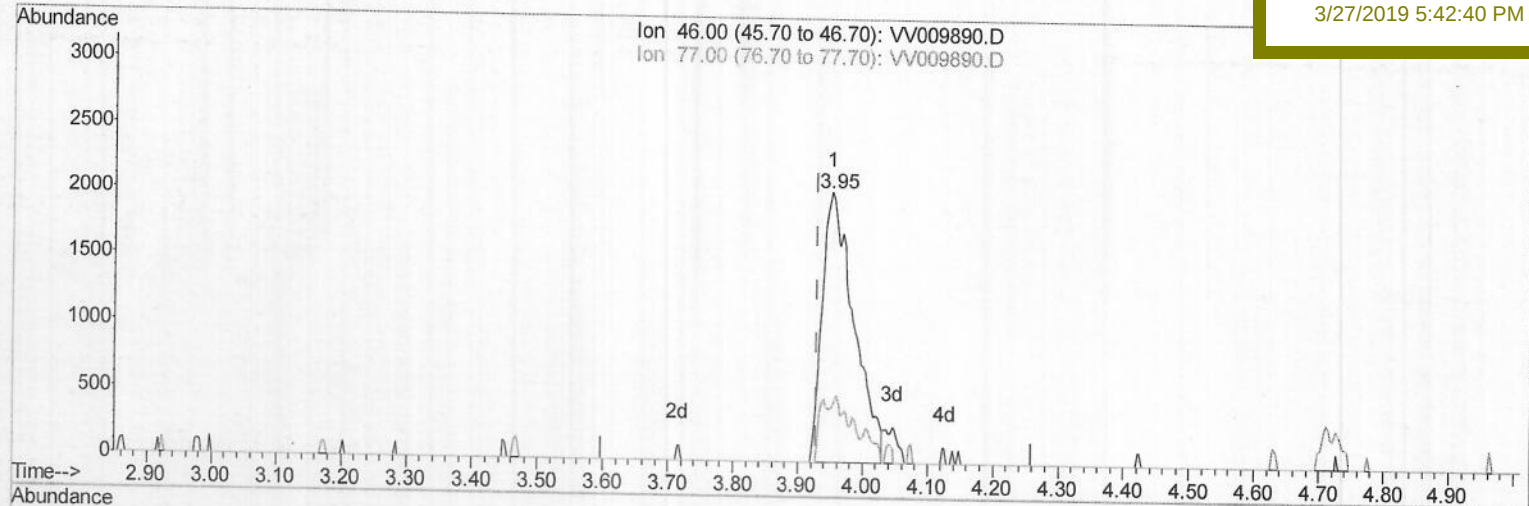
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(20) 2-Butanone-d5 (S)

3.952min (+0.023) 10.09ug/L m

response 6832

Ion Exp% Act%

46.00 100 100

77.00 23.10 4.87#

0.00 0.00 0.00

0.00 0.00 0.00

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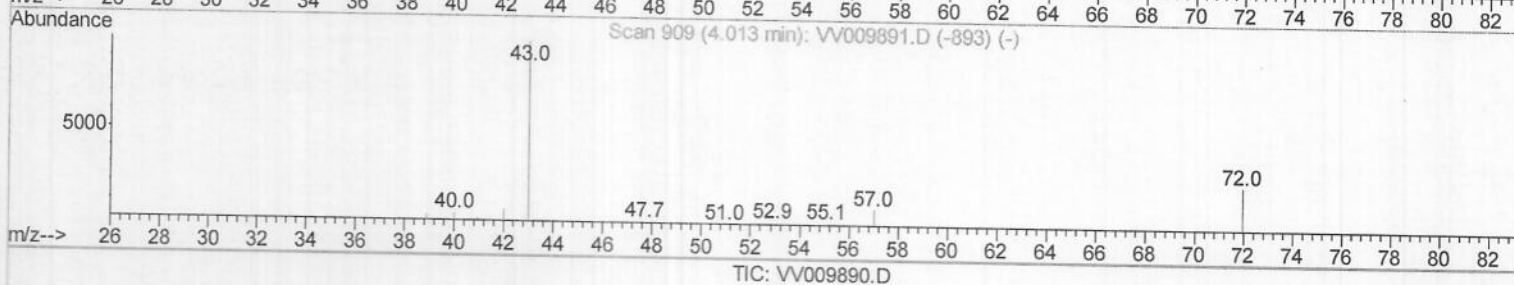
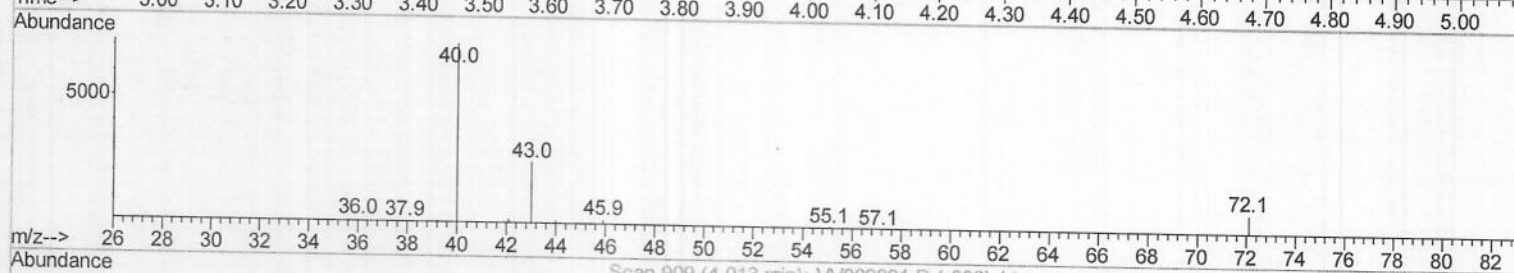
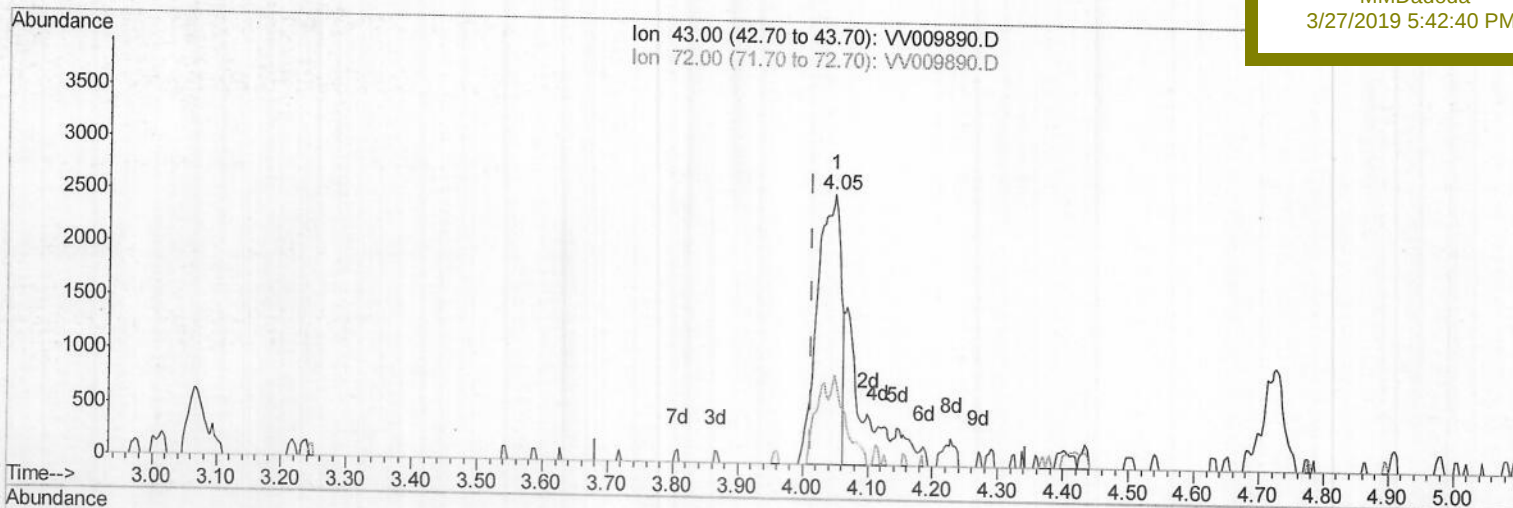
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(21) 2-Butanone

4.048min (+0.035) 6.60ug/L

response 6365

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 22.10 | 13.43 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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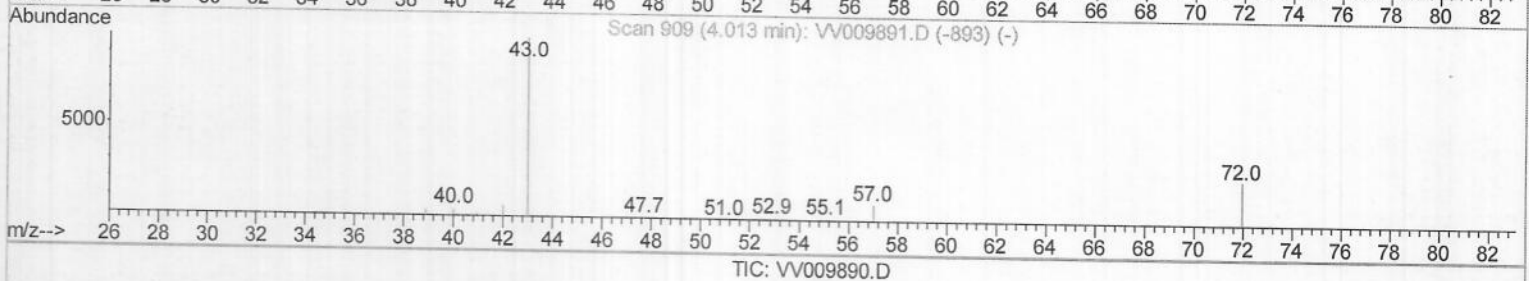
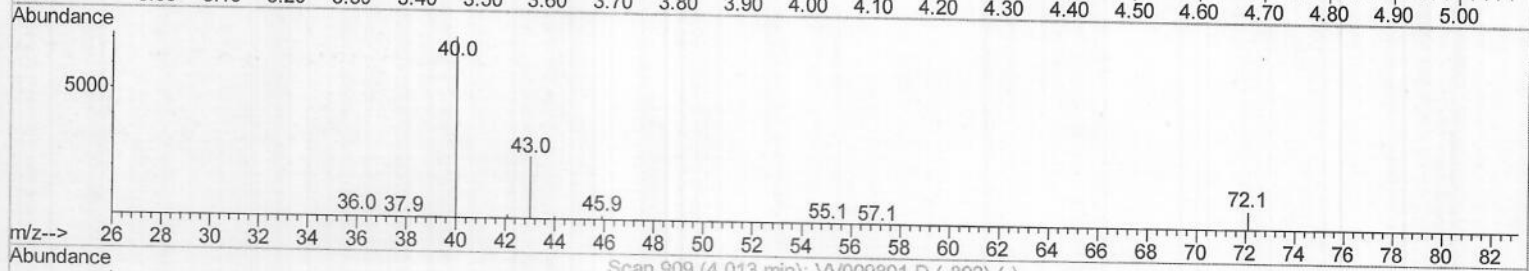
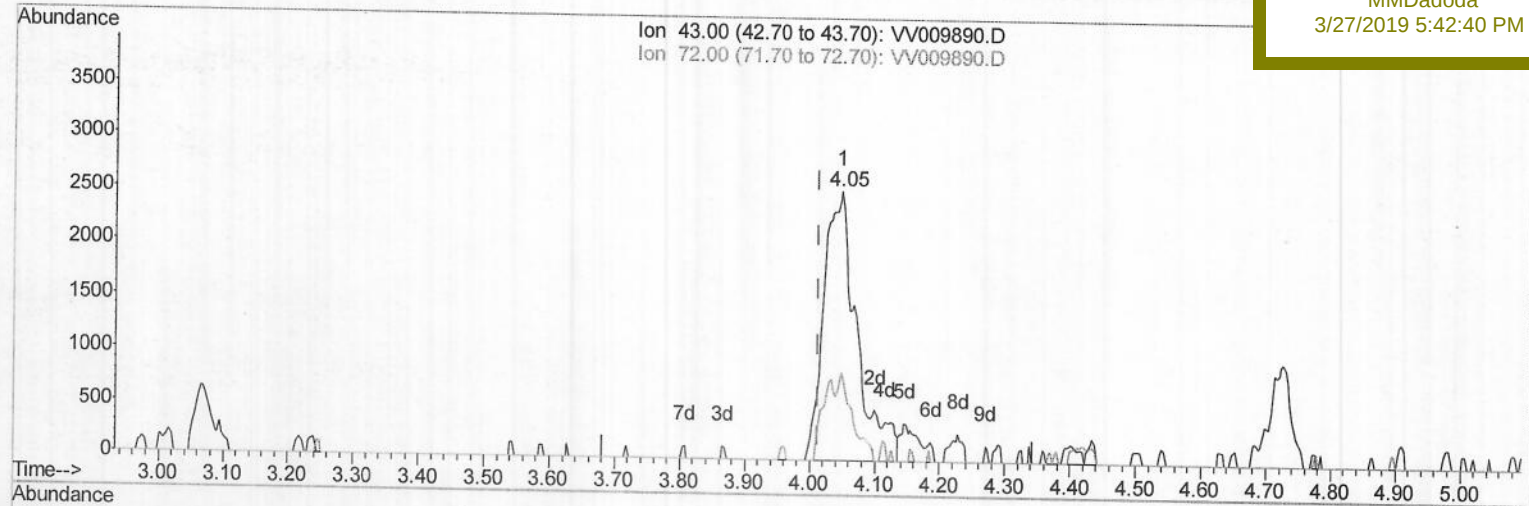
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(21) 2-Butanone

4.048min (+0.035) 9.29ug/L m

response 8964

Ion Exp% Act%

43.00 100 100

72.00 22.10 9.54#

0.00 0.00 0.00

0.00 0.00 0.00

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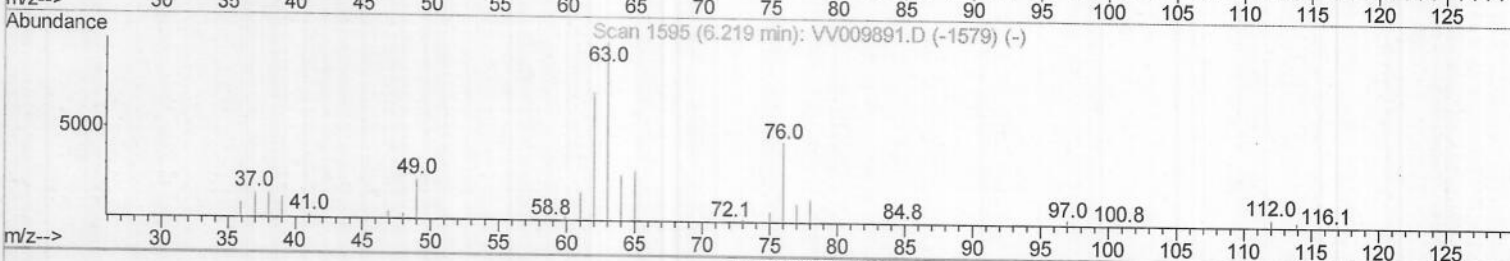
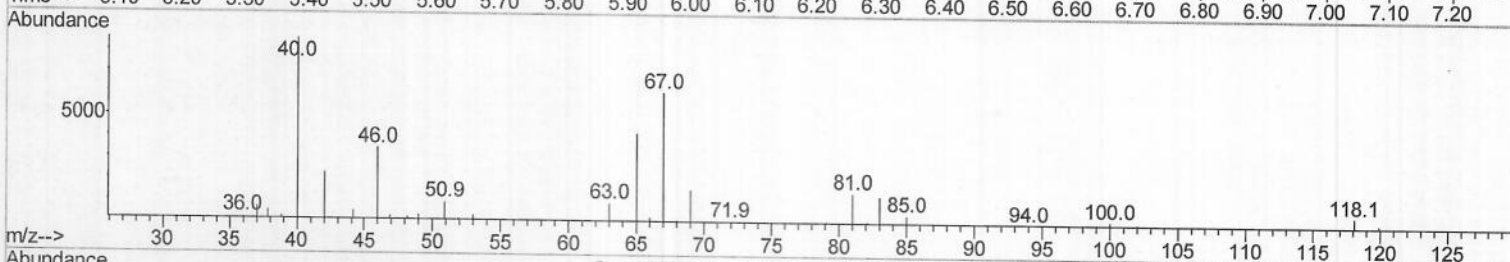
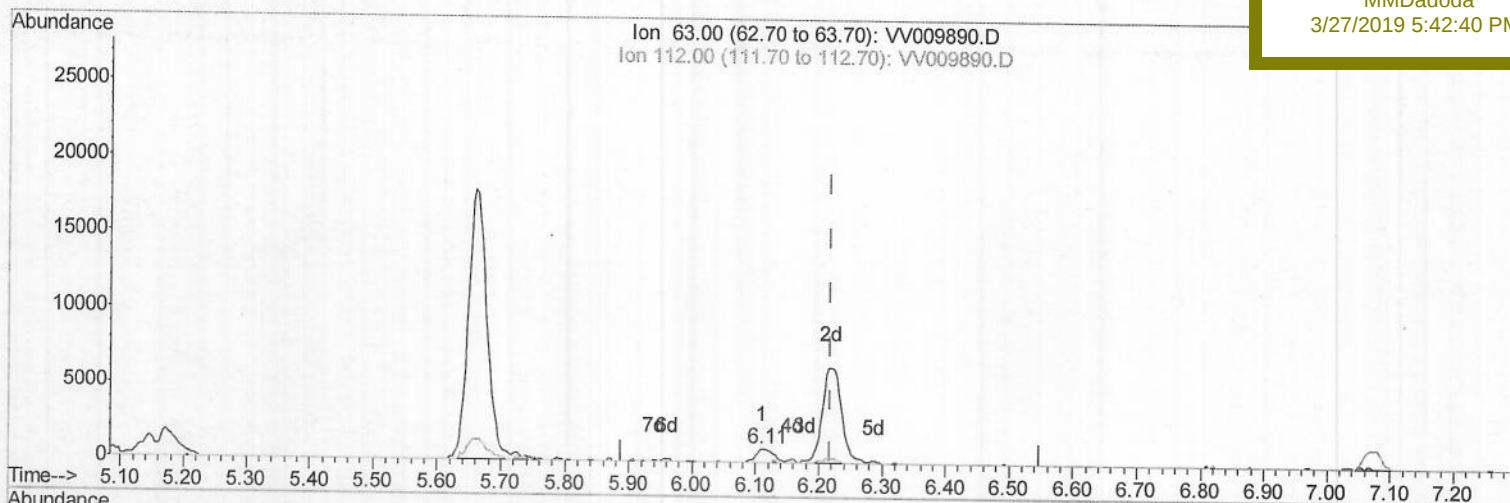
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ClientSampleId :  
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Manual Integrations  
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TIC: VV009890.D

(40) 1,2-Dichloropropane (T)

6.109min (-0.109) 0.74ug/L

response 1741

| Ion    | Exp% | Act% |
|--------|------|------|
| 63.00  | 100  | 100  |
| 112.00 | 2.60 | 2.58 |
| 0.00   | 0.00 | 0.00 |
| 0.00   | 0.00 | 0.00 |

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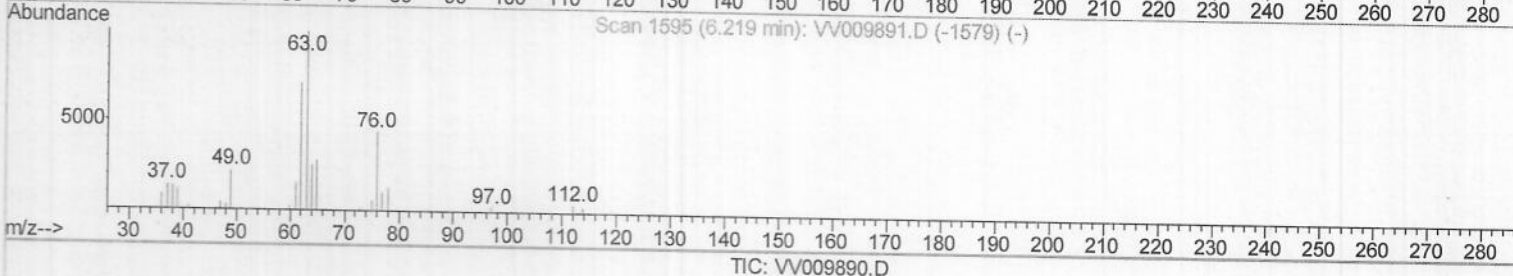
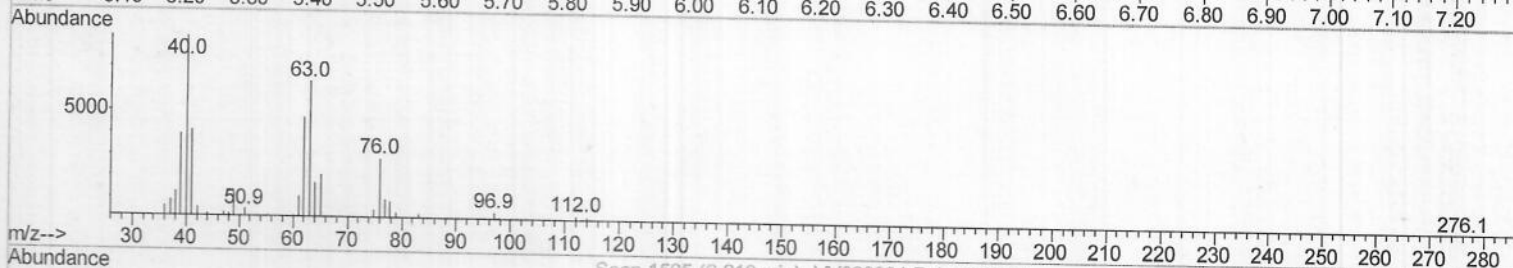
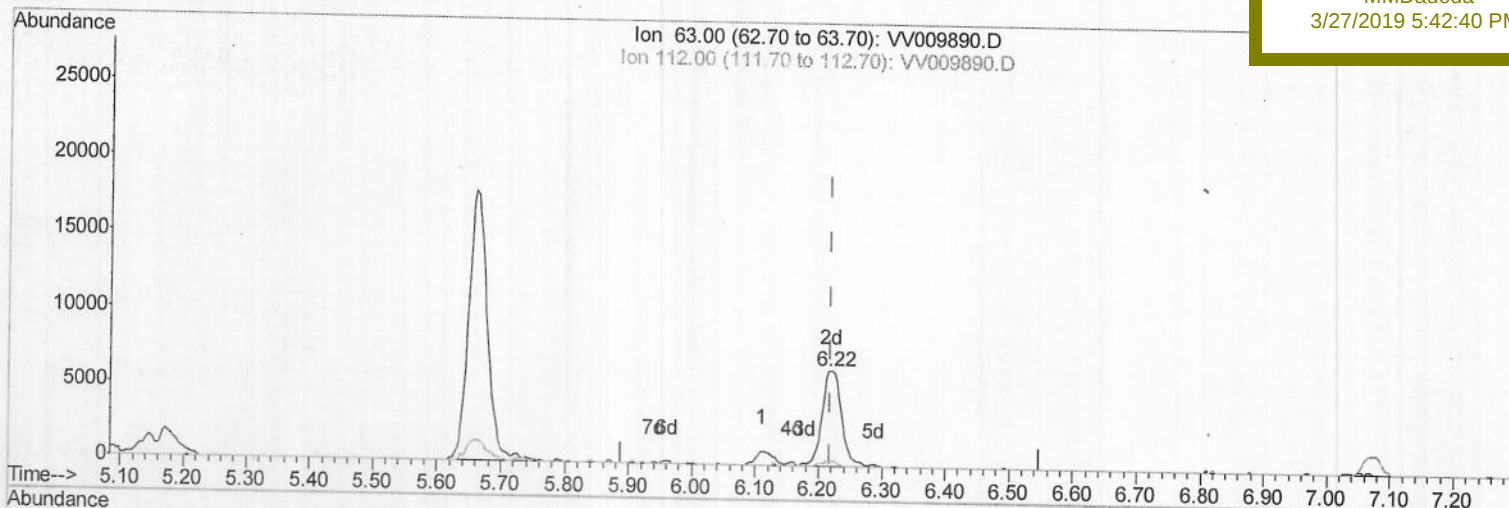
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ClientSampleId :  
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Manual Integrations  
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(40) 1,2-Dichloropropane (T)

6.219min (+0.000) 5.73ug/L m

response 13491

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 63.00  | 100  | 100   |
| 112.00 | 2.60 | 0.33# |
| 0.00   | 0.00 | 0.00  |
| 0.00   | 0.00 | 0.00  |

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Instrument :  
MSVOA\_V  
Client Sampled :  
VSTD00561

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 178715   | 25.00 | ug/L  | 0.00      |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 170029   | 25.00 | ug/L  | 0.00      |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 74807    | 25.00 | ug/L  | 0.00      |

System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 20551 | 9.14  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 25648 | 8.77  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.12  | 63  | 56340 | 9.48  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 6832m | 10.09 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.40  | 84  | 24669 | 5.69  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 13981 | 5.83  | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 48123 | 5.32  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 13891 | 5.24  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 42620 | 4.92  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 4626  | 3.49  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.14  | 63  | 4474  | 7.98  | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 12659 | 4.89  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 14199 | 5.12  | ug/L | 0.00 |

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Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 15817  | 6.992  | ug/L | 96     |
| 3) Chloromethane               | 1.25 | 50  | 22251  | 9.267  | ug/L | 93     |
| 5) Vinyl chloride              | 1.32 | 62  | 23407  | 8.774  | ug/L | 91     |
| 6) Bromomethane                | 1.53 | 94  | 27746  | 9.670  | ug/L | 99     |
| 8) Chloroethane                | 1.59 | 64  | 26518  | 11.657 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 52032  | 9.672  | ug/L | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 30125  | 10.093 | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 25449  | 9.916  | ug/L | 90     |
| 13) Acetone                    | 2.20 | 43  | 6883   | 8.888  | ug/L | 91     |
| 14) Carbon disulfide           | 2.31 | 76  | 31646  | 4.746  | ug/L | 96     |
| 15) Methyl Acetate             | 2.46 | 43  | 6316   | 6.172  | ug/L | 96     |
| 16) Methylene chloride         | 2.53 | 84  | 16168  | 6.679  | ug/L | 95     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 28794  | 5.156  | ug/L | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 12878  | 5.773  | ug/L | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 23134  | 5.838  | ug/L | 97     |
| 21) 2-Butanone                 | 4.05 | 43  | 8964m  | 9.288  | ug/L |        |
| 22) cis-1,2-Dichloroethene     | 3.95 | 96  | 13202  | 5.264  | ug/L | 86     |
| 23) Bromochloromethane         | 4.30 | 128 | 5834   | 5.184  | ug/L | 90     |
| 25) Chloroform                 | 4.43 | 83  | 23807  | 5.520  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 17187  | 5.761  | ug/L | 98     |
| 30) Cyclohexane                | 4.73 | 56  | 18935  | 4.701  | ug/L | 98     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 19321  | 4.785  | ug/L | 96     |
| 32) Carbon tetrachloride       | 4.87 | 117 | 16598  | 4.819  | ug/L | 93     |
| 34) Benzene                    | 5.14 | 78  | 52421  | 5.530  | ug/L | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 15002  | 5.717  | ug/L | 92     |
| 36) Methylcyclohexane          | 6.17 | 83  | 20952  | 4.573  | ug/L | 98     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 13491m | 5.728  | ug/L |        |
| 41) Bromodichloromethane       | 6.56 | 83  | 15411  | 4.601  | ug/L | 93     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 17338  | 4.633  | ug/L | 88     |
| 43) 4-Methyl-2-pentanone       | 7.28 | 43  | 16926  | 10.052 | ug/L | 95     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                    | 7.43  | 91   | 52683    | 4.969 | ug/L   | 97       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 13023    | 3.839 | ug/L   | 98       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 10435    | 5.364 | ug/L   | 93       |
| 47) Tetrachloroethene          | 8.02  | 164  | 10702    | 5.506 | ug/L   | 91       |
| 49) 2-Hexanone                 | 8.19  | 43   | 10585    | 7.529 | ug/L # | 96       |
| 50) Dibromochloromethane       | 8.29  | 129  | 9813     | 4.033 | ug/L   | 87       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 9703     | 4.955 | ug/L   | 99       |
| 52) Chlorobenzene              | 8.93  | 112  | 35499    | 5.169 | ug/L   | 97       |
| 53) Ethylbenzene               | 9.06  | 91   | 55486    | 4.575 | ug/L   | 95       |
| 54) m,p-Xylene                 | 9.18  | 106  | 21244    | 4.497 | ug/L   | 92       |
| 55) o-xylene                   | 9.59  | 106  | 19559    | 4.367 | ug/L   | 98       |
| 56) Styrene                    | 9.60  | 104  | 31689    | 4.218 | ug/L   | 99       |
| 57) Isopropylbenzene           | 9.98  | 105  | 49867    | 4.075 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 12524    | 4.734 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 9355     | 4.965 | ug/L   | 95       |
| 62) Bromoform                  | 9.77  | 173  | 4502     | 3.352 | ug/L # | 88       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 24801    | 5.165 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 26940    | 5.621 | ug/L   | 100      |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 23120    | 5.124 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 1420     | 3.188 | ug/L # | 89       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 16760    | 4.943 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 12140    | 4.612 | ug/L   | 95       |
| 69) Naphthalene                | 13.55 | 128  | 16402    | 3.077 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 12279    | 5.032 | ug/L   | 91       |

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