

(QT Reviewed)

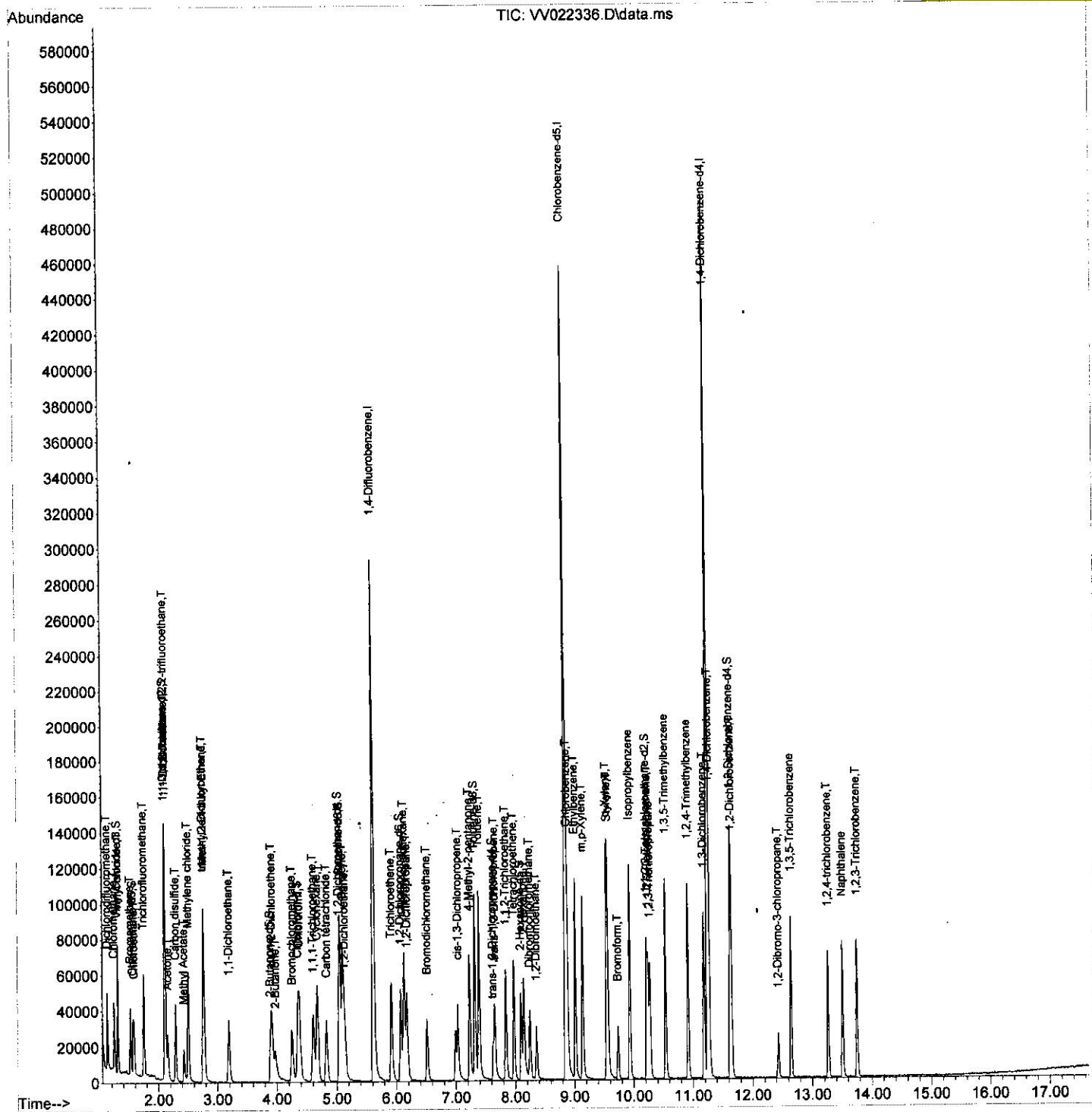
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV092821\  
Data File : VV022336.D  
Acq On : 27 Sep 2021 16:33  
Operator : SY/MD  
Sample : VSTD01052  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD010252

Quant Time: Sep 28 02:14:28 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092721WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 28 02:13:12 2021  
Response via : Initial Calibration

## Manual Integrations APPROVED

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# Quantitation Report (Qedit)

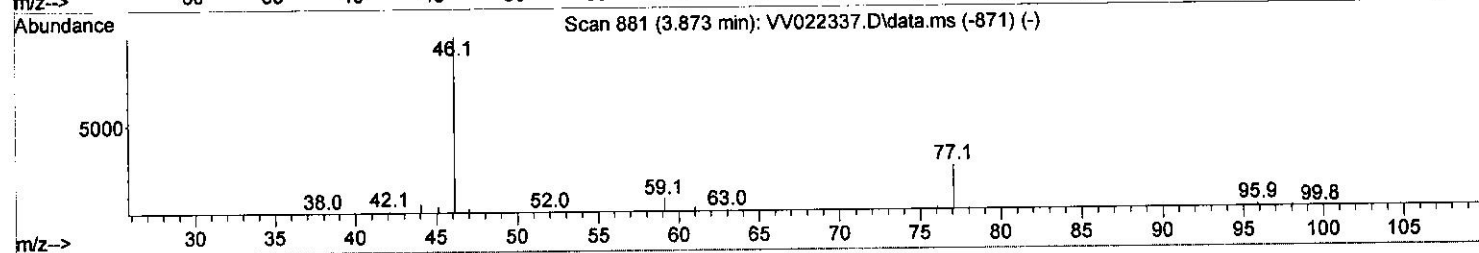
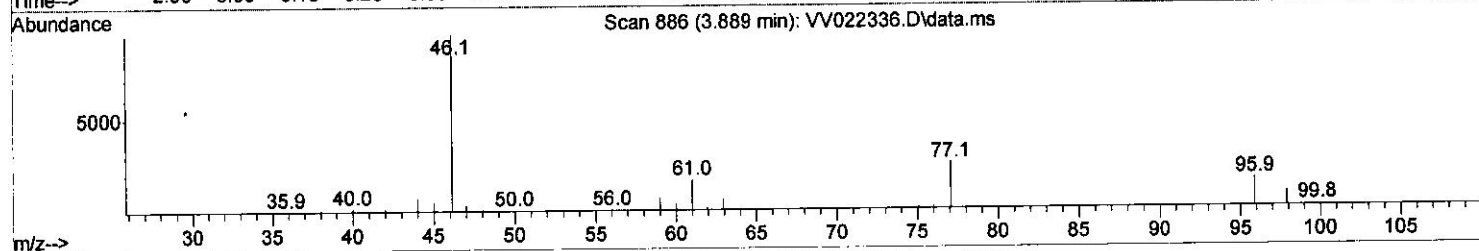
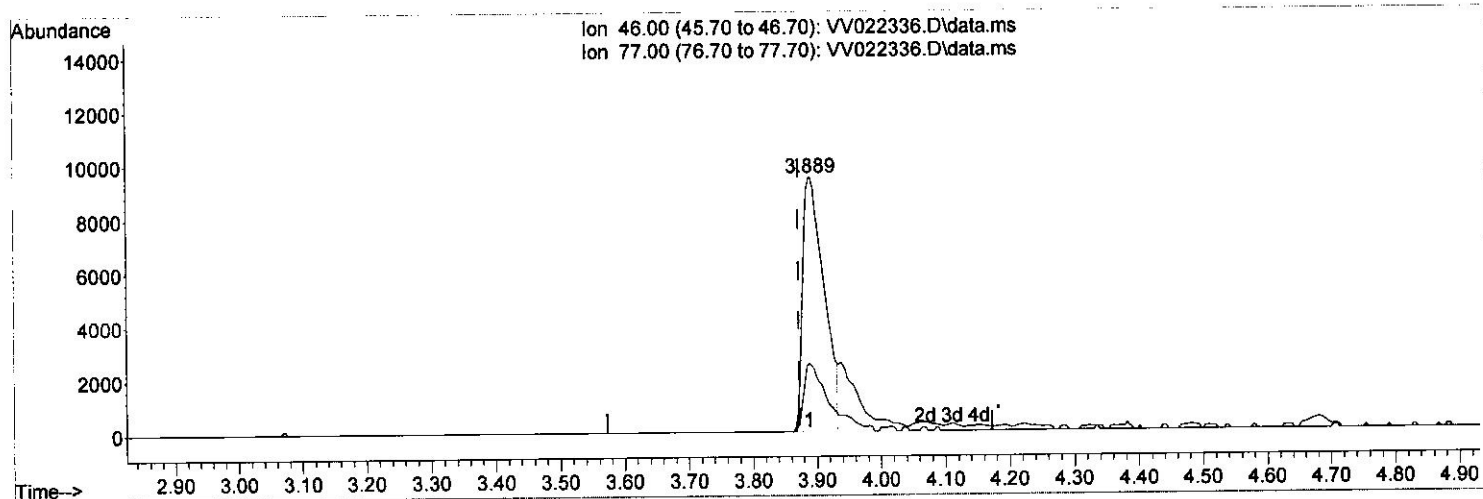
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TIC: VV022336.D\data.ms

(21) 2-Butanone-d5 (S)

3.889min (+ 0.016) 16.80 ug/L

response 21862

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 24.50  | 27.02  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

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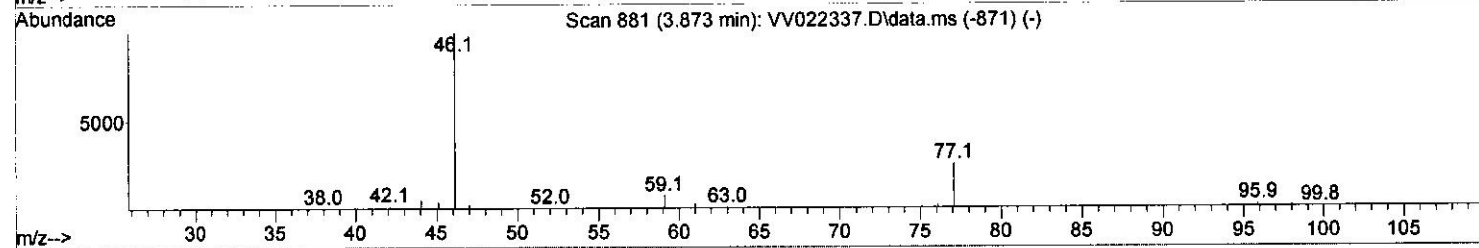
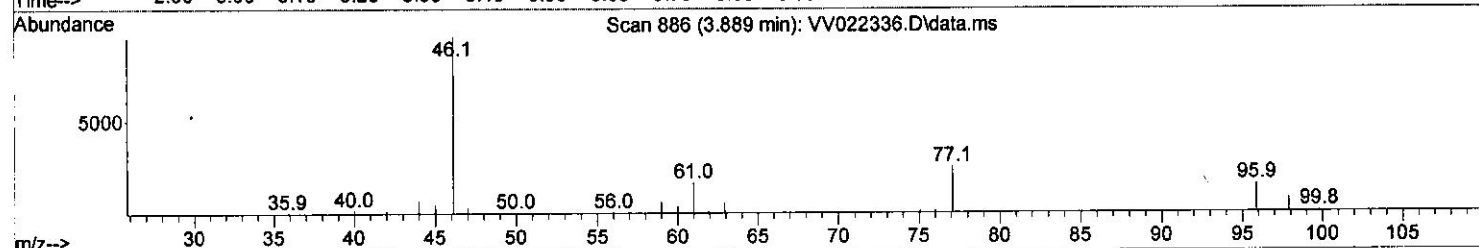
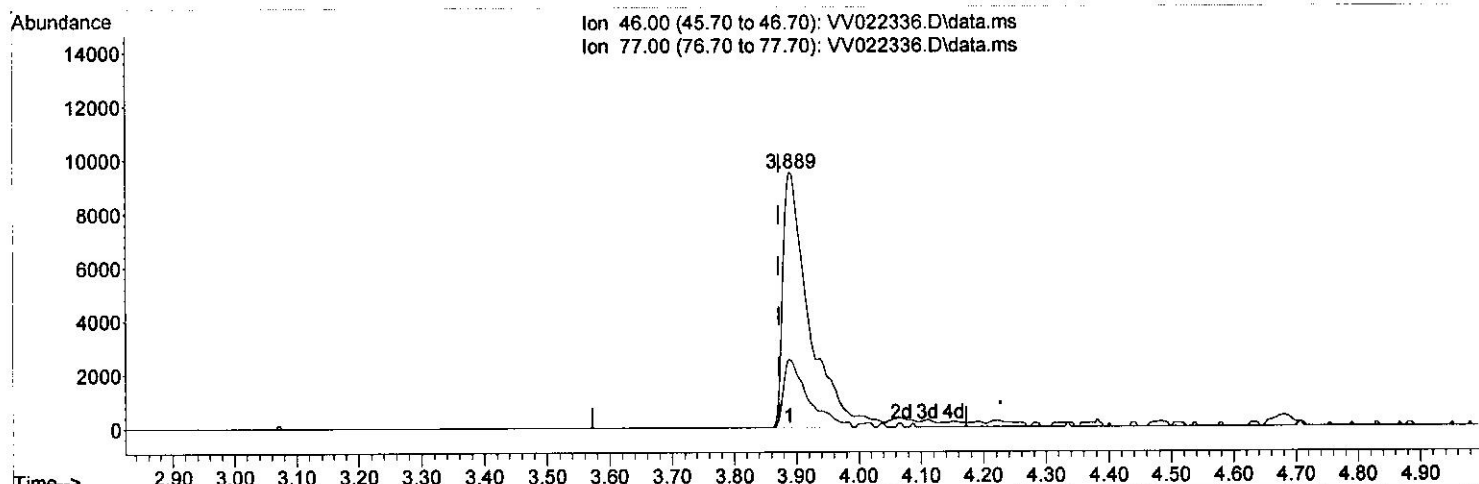
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TIC: VV022336.D\data.ms

(21) 2-Butanone-d5 (S)

3.889min (+ 0.016) 20.65 ug/L m

response 26874

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 24.50  | 21.98  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

# Quantitation Report (Qedit)

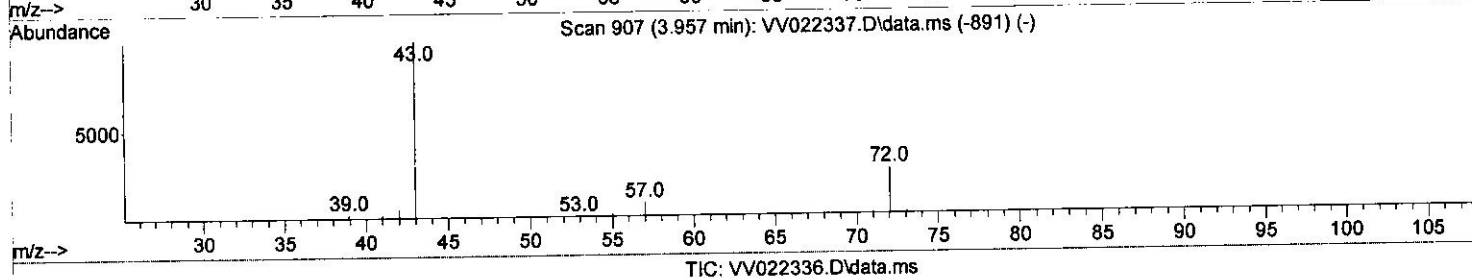
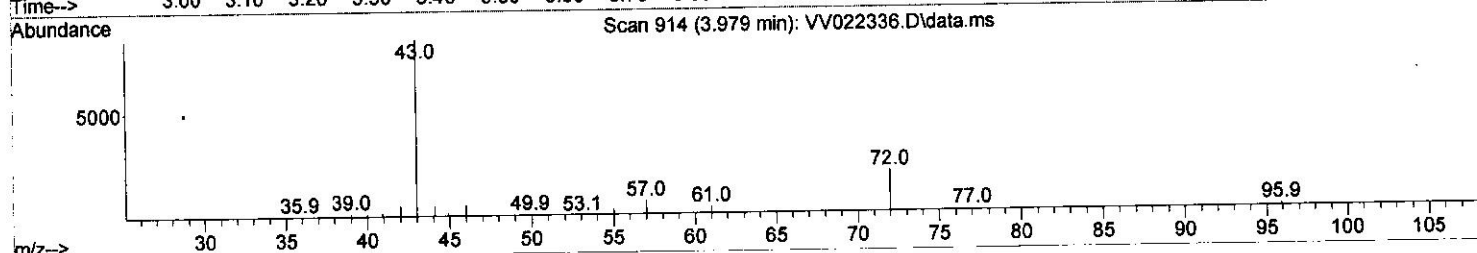
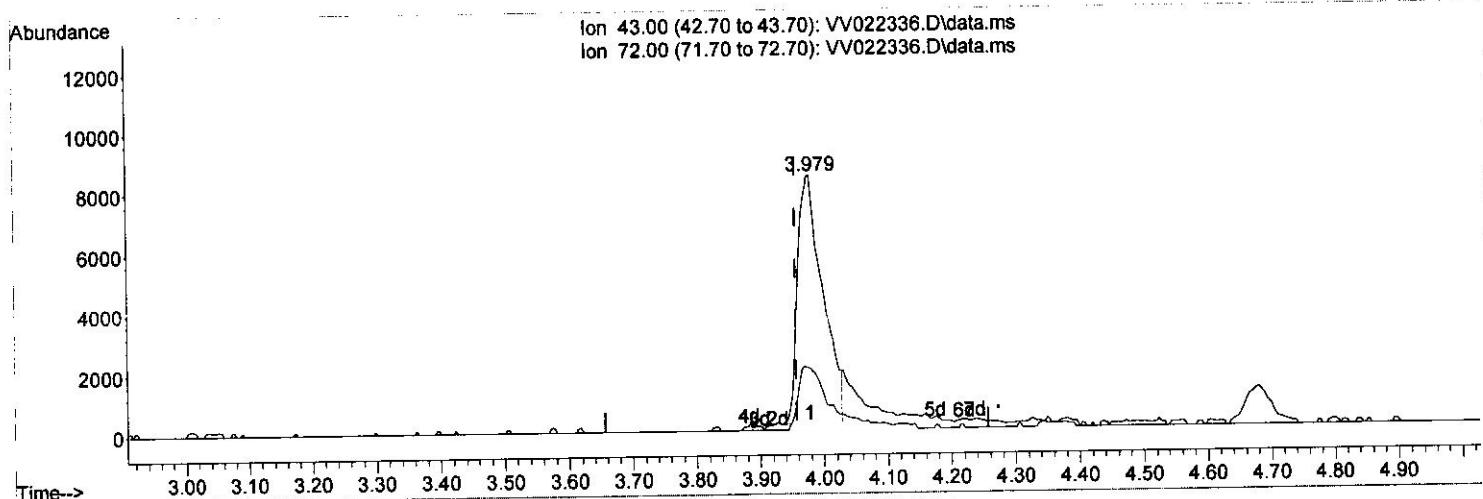
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TIC: VV022336.D\data.ms

(22) 2-Butanone (T)

3.979min (+ 0.022) 15.31 ug/L

response 22642

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 27.60  | 23.55  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

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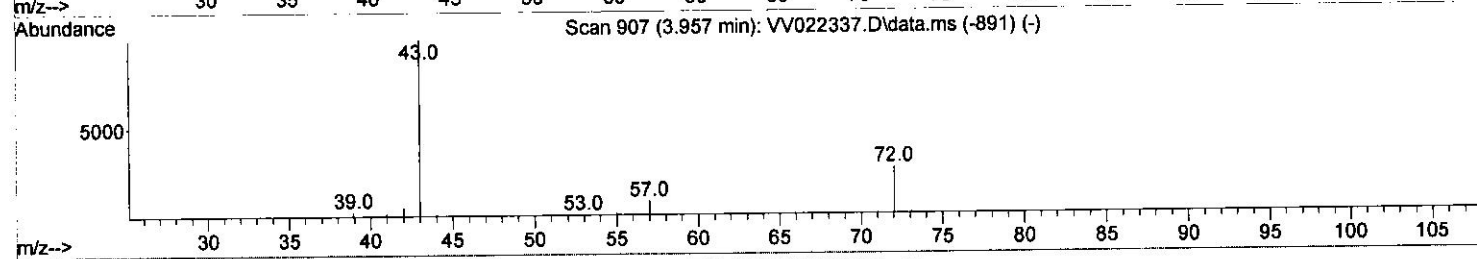
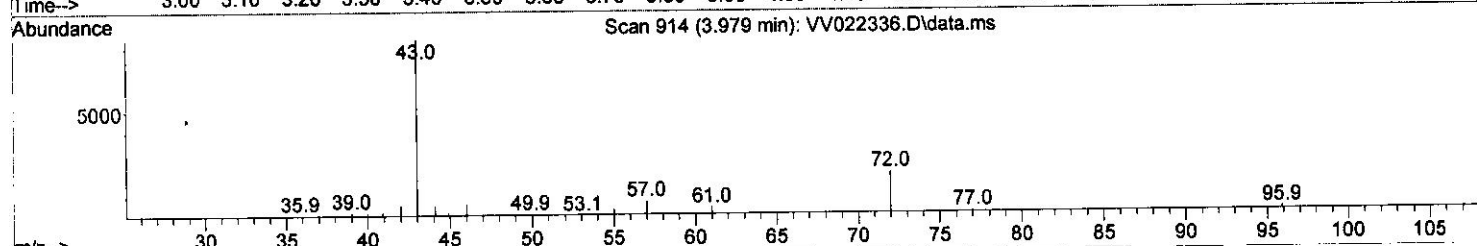
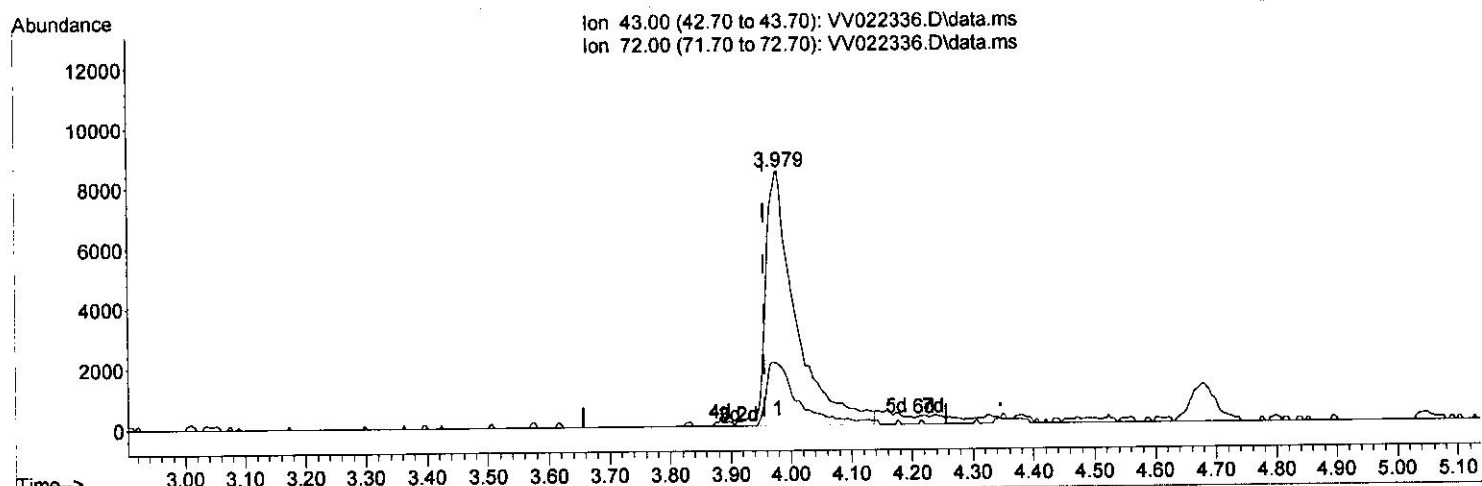
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Instrument :  
 MSVOA\_V  
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 VSTD010252

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TIC: VV022336.D\data.ms

(22) 2-Butanone (T)

3.979min (+ 0.022) 19.81 ug/L m

response 29298

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 27.60  | 18.20  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |



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 ClientSampled :  
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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Difluorobenzene        | 5.619  | 114  | 260469   | 50.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853  | 117  | 256215   | 50.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.252 | 152  | 131350   | 50.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65   | 22208    | 11.884 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.564  | 69   | 17763    | 12.122 | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63   | 38828    | 12.368 | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 3.889  | 46   | 26874    | 20.651 | ug/L   | 0.02     |
| 24) Chloroform-d              | 4.352  | 84   | 37764    | 11.128 | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.037  | 65   | 24594    | 12.144 | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.053  | 84   | 78910    | 10.983 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.075  | 67   | 26041    | 11.523 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.320  | 98   | 71349    | 10.591 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.625  | 79   | 10362    | 9.697  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 8.091  | 63   | 17391    | 19.803 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.220 | 84   | 36185    | 12.195 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.628 | 152  | 29715    | 11.262 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
| 2) Dichlorodifluoromethane    | 1.127  | 85   | 24884    | 12.954 | ug/L   | 98       |
| 3) Chloromethane              | 1.243  | 50   | 25644    | 12.749 | ug/L   | 99       |
| 5) Vinyl chloride             | 1.310  | 62   | 23187    | 11.632 | ug/L   | 97       |
| 6) Bromomethane               | 1.519  | 94   | 15696    | 12.987 | ug/L   | 95       |
| 8) Chloroethane               | 1.584  | 64   | 14766    | 11.921 | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.751  | 101  | 31793    | 11.270 | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114  | 101  | 17745    | 10.890 | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.117  | 96   | 17095    | 11.087 | ug/L   | 91       |
| 13) Acetone                   | 2.159  | 43   | 23246    | 21.960 | ug/L   | 97       |
| 14) Carbon disulfide          | 2.294  | 76   | 49526    | 10.560 | ug/L   | 100      |
| 15) Methyl Acetate            | 2.432  | 43   | 20793    | 10.016 | ug/L   | 98       |
| 16) Methylene chloride        | 2.506  | 84   | 24746    | 12.017 | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.760  | 96   | 19181    | 10.410 | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 2.767  | 73   | 54487    | 9.414  | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.191  | 63   | 34982    | 10.629 | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.918  | 96   | 19738    | 9.698  | ug/L   | 93       |
| 22) 2-Butanone                | 3.979  | 43   | 29298    | 19.809 | ug/L   |          |
| 23) Bromochloromethane        | 4.256  | 128  | 11034    | 10.137 | ug/L   | 98       |
| 25) Chloroform                | 4.375  | 83   | 37710    | 10.857 | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.137  | 62   | 26102    | 11.164 | ug/L   | 97       |
| 29) Cyclohexane               | 4.677  | 56   | 27009    | 9.282  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 4.606  | 97   | 29832    | 9.768  | ug/L   | 100      |
| 31) Carbon tetrachloride      | 4.831  | 117  | 26278    | 9.983  | ug/L   | 97       |
| 33) Benzene                   | 5.101  | 78   | 75531    | 9.992  | ug/L   | 100      |
| 34) Trichloroethene           | 5.918  | 95   | 19298    | 9.222  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.133  | 83   | 27321    | 8.749  | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 6.178  | 63   | 18615    | 9.509  | ug/L # | 93       |
| 38) Bromodichloromethane      | 6.513  | 83   | 23540    | 9.446  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.034  | 75   | 24290    | 8.139  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.230  | 43   | 49352    | 18.481 | ug/L   | 98       |
| 42) Toluene                   | 7.390  | 91   | 80223    | 9.849  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.657  | 75   | 23481    | 8.402  | ug/L   | 91       |

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 10/11/21

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 45) 1,1,2-Trichloroethane     | 7.841  | 97   | 20143    | 10.168 | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.979  | 164  | 15828    | 9.631  | ug/L  | 95       |
| 48) 2-Hexanone                | 8.143  | 43   | 37127    | 17.999 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.246  | 129  | 18775    | 8.858  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.355  | 107  | 20471    | 9.634  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.882  | 112  | 53100    | 9.783  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.014  | 91   | 79957    | 9.126  | ug/L  | 97       |
| 53) m,p-Xylene                | 9.143  | 106  | 30380    | 8.931  | ug/L  | 100      |
| 54) o-Xylene                  | 9.545  | 106  | 29267    | 8.709  | ug/L  | 99       |
| 55) Styrene                   | 9.564  | 104  | 49714    | 8.630  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.242 | 83   | 32257    | 10.971 | ug/L  | 98       |
| 59) Bromoform                 | 9.734  | 173  | 13497    | 9.632  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.934  | 105  | 75778    | 9.194  | ug/L  | 98       |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 24907    | 10.816 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.541 | 105  | 58617    | 8.487  | ug/L  | 97       |
| 63) 1,2,4-Trimethylbenzene    | 10.918 | 105  | 58991    | 8.402  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.185 | 146  | 39284    | 9.394  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 40140    | 9.404  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 11.648 | 146  | 41736    | 10.020 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.432 | 75   | 5614     | 10.022 | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 12.648 | 180  | 27624    | 8.917  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.265 | 180  | 22102    | 8.179  | ug/L  | 98       |
| 71) Naphthalene               | 13.506 | 128  | 59415    | 7.502  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.747 | 180  | 22651    | 8.504  | ug/L  | 99       |

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