



- sTDS.ivt Specification:**
1. Designed for Impurity Detection of $\phi 25$ mm Samples
 2. Sample Heating: IR rod heater, 1200 °C
 3. Equipped with Self-calibration Function
 - System Calibration Factor, R, determined every six months
 - factor R experimentally set between method 1 & method 2
 - currently R = 16.00
 - method 1; calibration, *J. Vac. Sci. Technol. A 20(5), Sep/Oct 2002*
 - method 2; default DAQ setting
 - sTDS.q.H.N.2: traceable with certified NIST SRMs
 - sTDS.q.H₂O.2 = 1.00E20, arbitrary
 4. Loadlock System for Sample Loading
 5. GUI DAQ
 - 200 masses/s scanned with LabVIEW DAQ system
 - Capable of qualitative and quantitative H₂ measurement of less than 1×10^{-5} wt ppm

Fig. 1

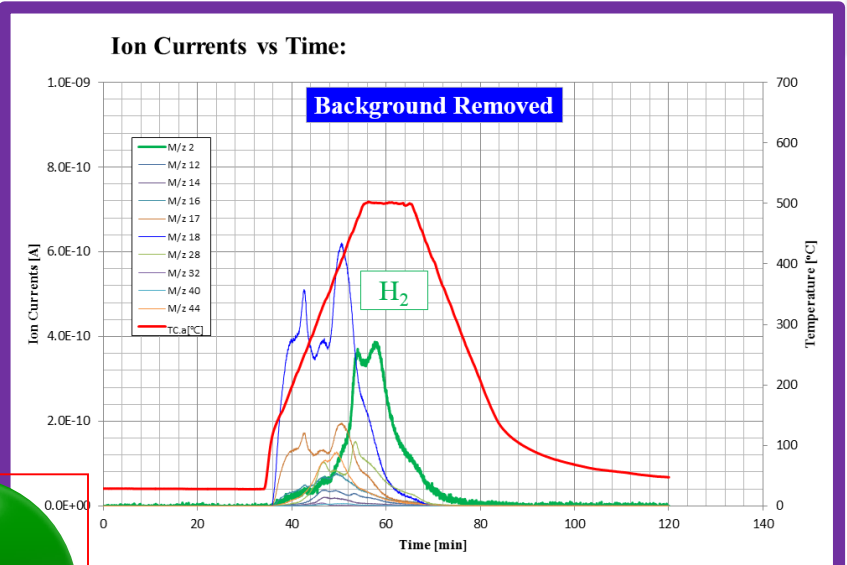
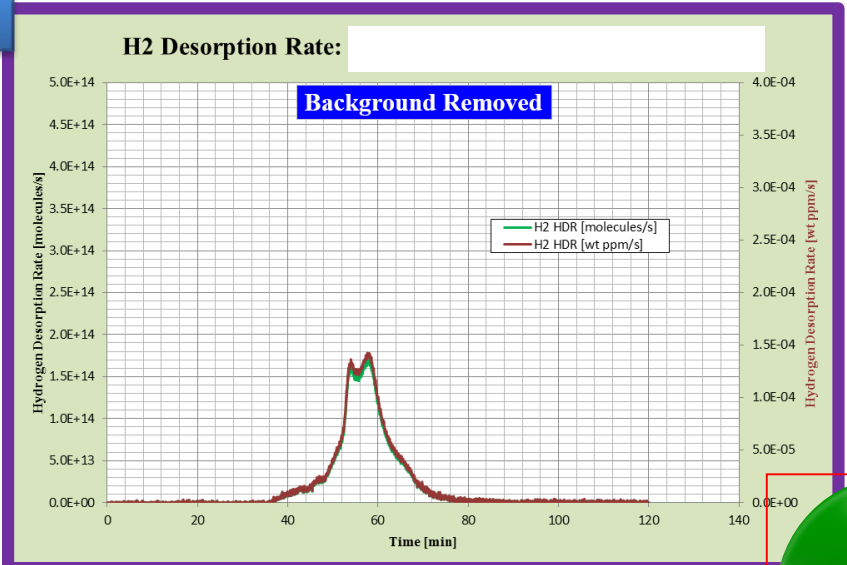


Fig. 2

Fig. 3

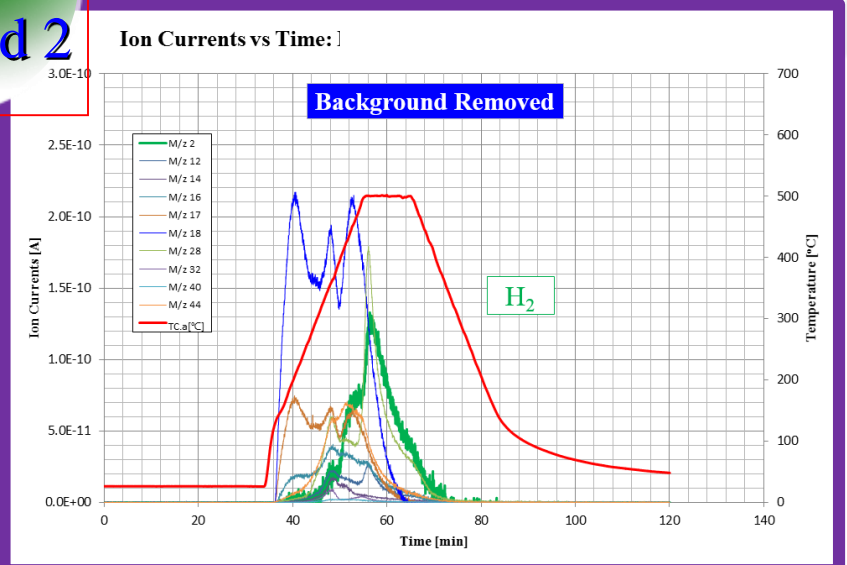
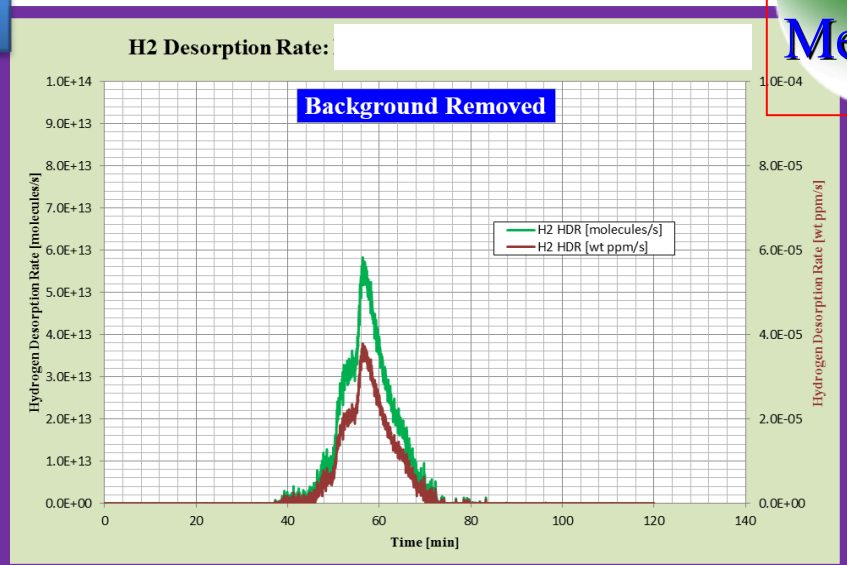


Fig. 4

**CR
Sample #1
Method 2**

Fig. 5

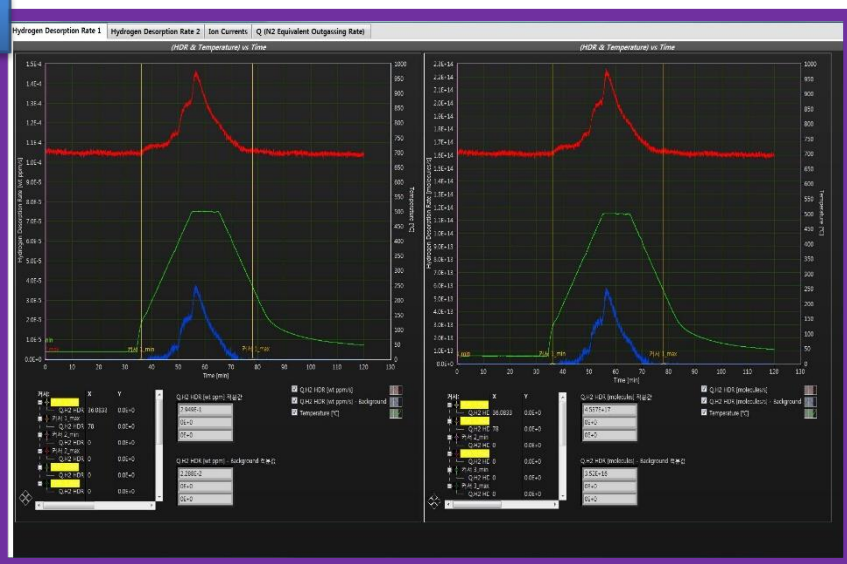
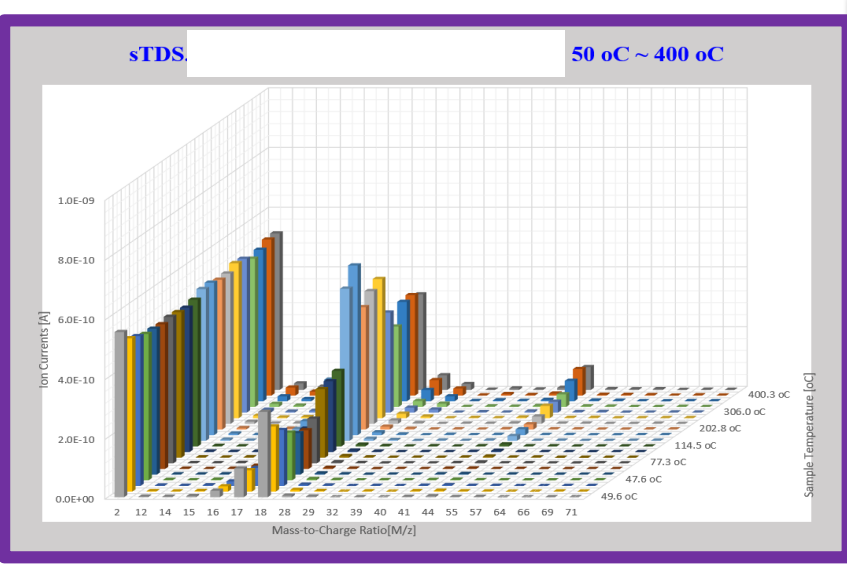
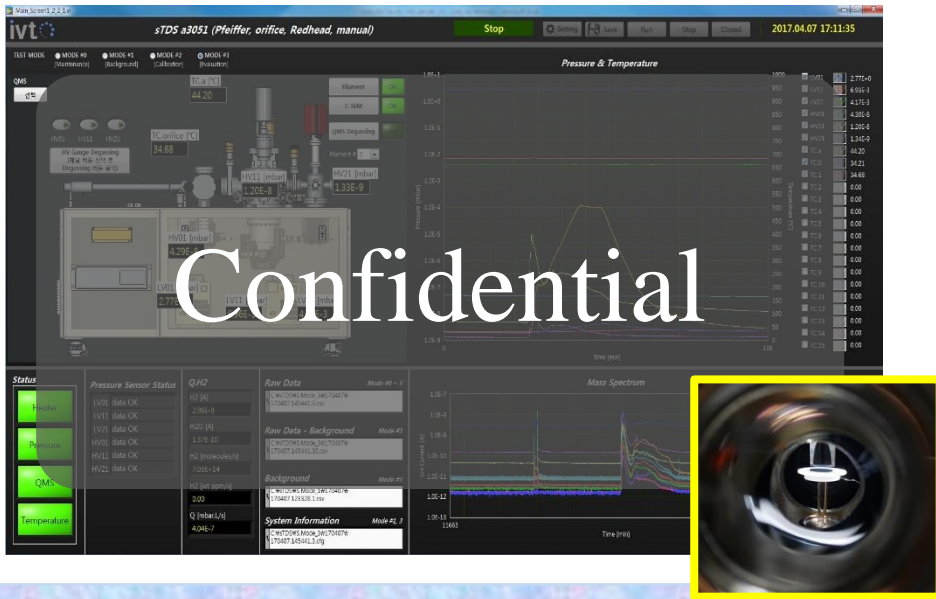


Fig. 6





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Fig. 1

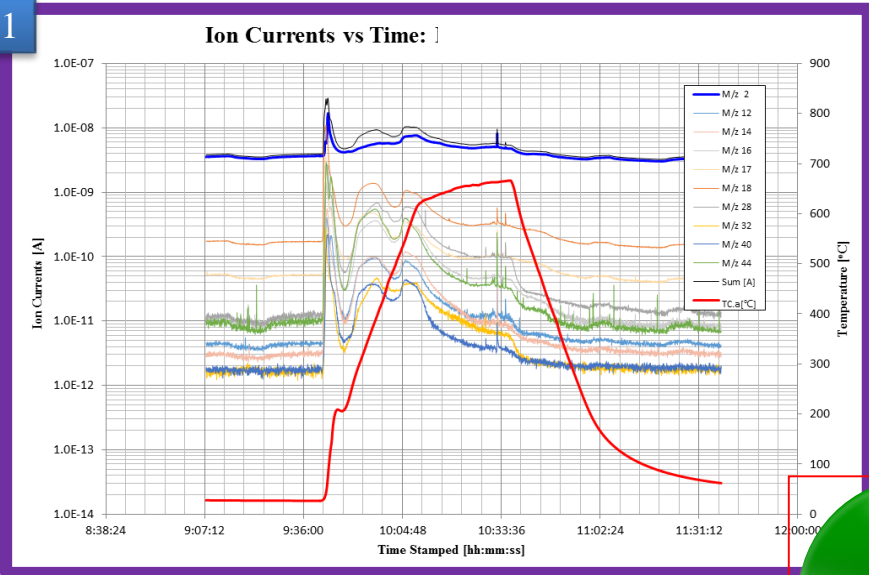
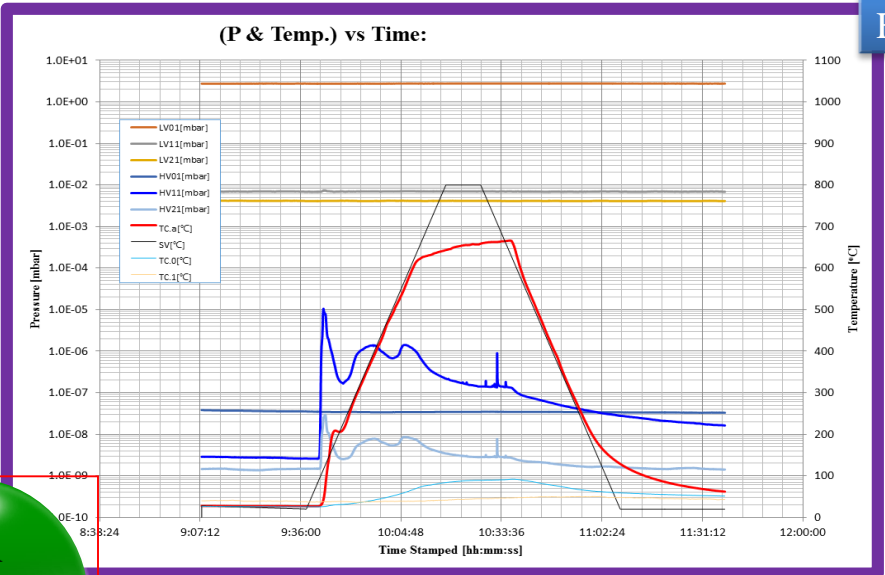


Fig. 2



CR
Sample #1
Method 2

Fig. 3

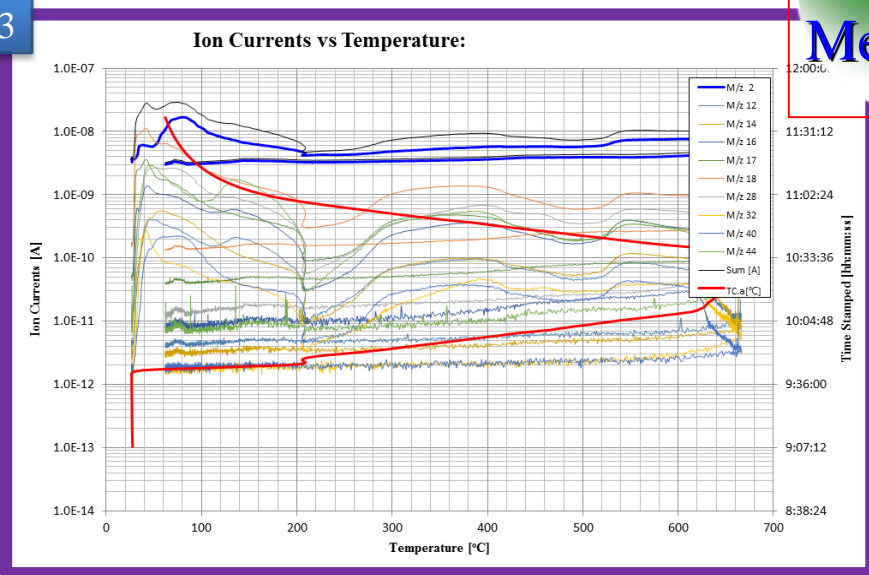


Fig. 4

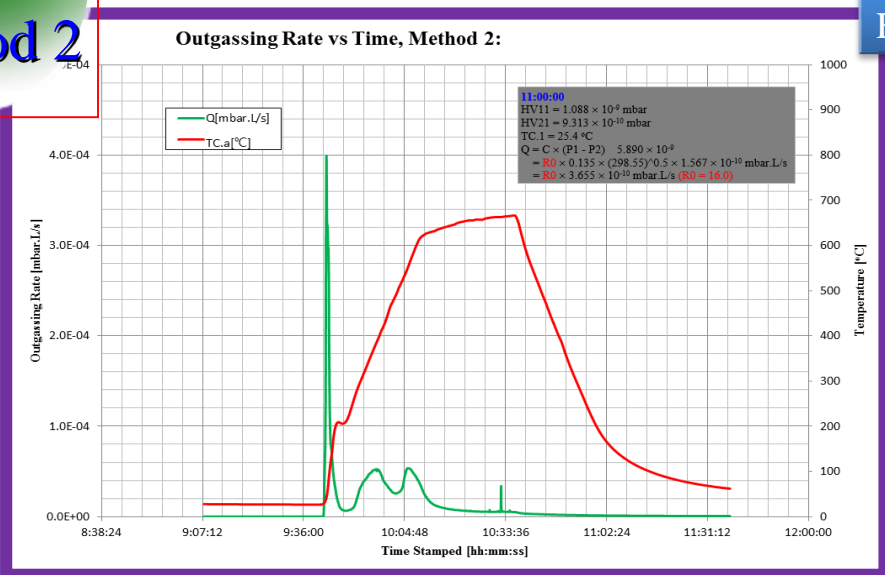


Fig. 5

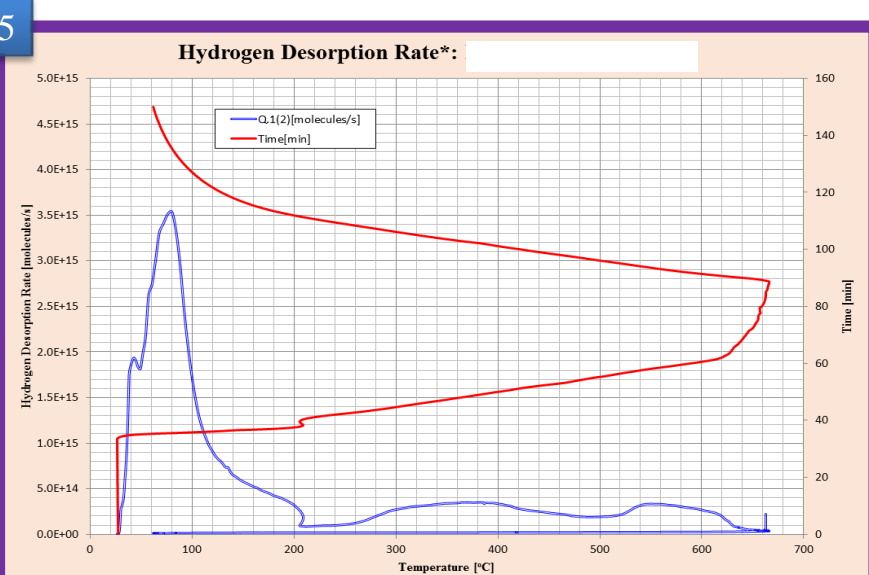


Fig. 6

