



VSM19-X Vacuum Performance

APPLICATION NOTES

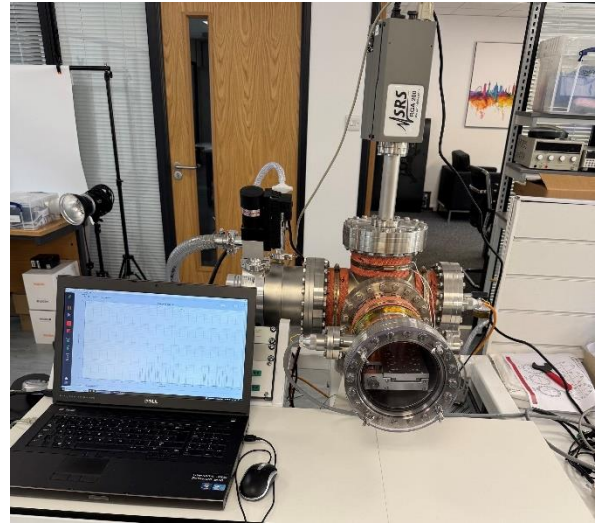
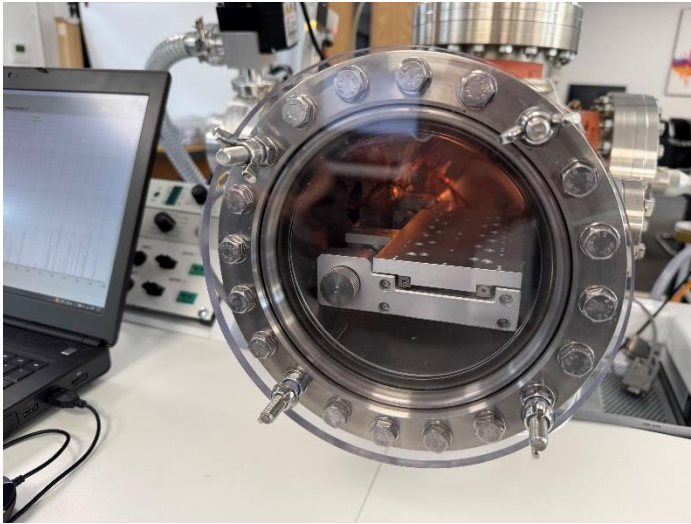
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1. Experimental Determination

The VSM19-X-100 (with motor option P) was placed in a 400 Litre sec⁻¹ oil free, turbo pumped UHV system equipped with an SRS (RGA200) Residual Gas Analyser and AML BA ionisation gauges. The stage motor was driven by an AML SMD4 drive.

The chamber and motor were pumped down and baked a 150°C for 48 hours. During the period in which the chamber cooled to 21°C the motor was run a 1 Amp phase current using the SMD4 'Bake' program. This program controls the motor winding temperature with a setpoint of 180°C using drive current to self-heat both windings. The motor was then switched off to allow the system to attain its base pressure of 2 x 10⁻⁹ mbar.



2. RGA Results (Chamber background subtracted)

