

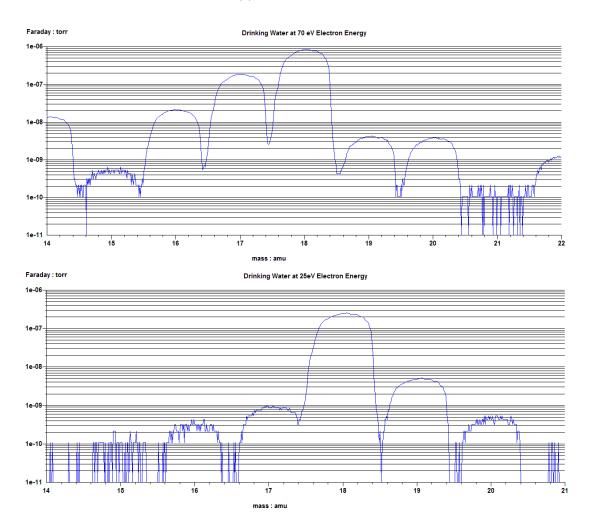
Hiden Analytical Ltd. 420 Europa Boulevard Warrington WA5 7UN England +44 [0] 1925 445 225
+44 [0] 1925 416 518
info@hiden.co.uk
www.HidenAnalytical.com

Gas Performance Data Sheet PDS-30007

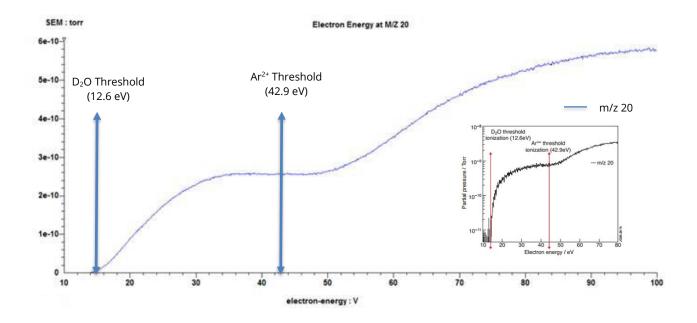
Detection of D₂O in H₂O

Detection of D_2O at 150 ppm in drinking water using Hiden Analytical HPR-40 Membrane Inlet Mass Spectrometer.

- Detection of D₂O from drinking water using Hiden Analytical HPR-40 Membrane Inlet Mass Spectrometer.
- TIMS (Threshold Ionisation Mass Spectrometry) was ideal to distinguish between signal from D₂O and Ar²⁺, both apparent at 20 amu.







- \succ Electron energy scans clearly show the value of TIMS in separating D₂O in this application.
- > Below the appearance potential for Ar^{2+} (42.9 eV) the signal at m/z 20 is solely from D₂O.