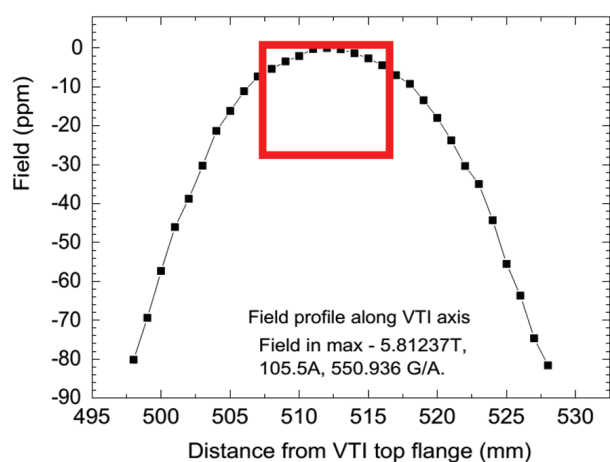


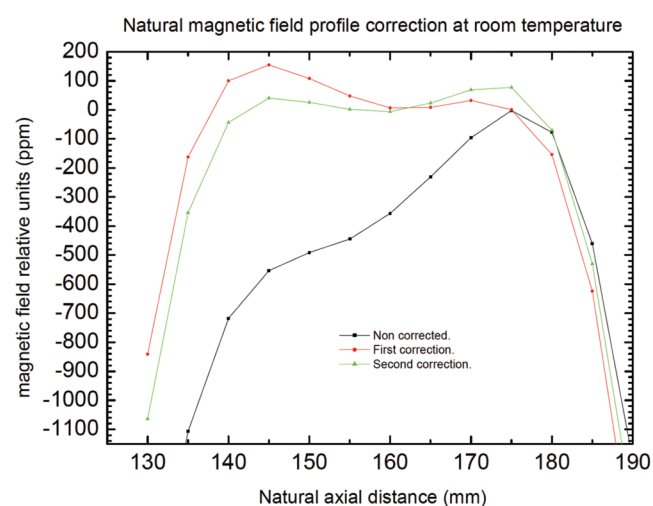
CRYOGEN-FREE 6T SPLIT PAIR MAGNET SYSTEM FOR EPR EXPERIMENTS



- ± 6 T split pair superconducting magnet with horizontal field
- 10/25 ppm homogeneity over 10 mm diameter sphere
- $\varnothing 50$ mm variable temperature insert designed to incorporate Brüker W-Band EPR spectrometer
- 2 K – 350 K sample temperature range
- High magnetic field stability in persistent mode 0.1 ppm/hr
- Designed to minimise vibration resulting in low sample displacement
- Low stray magnetic field $B < 5$ G for z & $r > 3$ m
- No liquid cryogenics
- HTS current leads from room temperature to magnet permanently connected



Field profile measured at low temperature and along the VT1



Once the magnet was cold the above results were measured at low temperature and along the VT1