Frequencies for the $|0\rangle \rightarrow |-1\rangle$ transition for all four classes of NV 2900 -H 2800 Sample: $15~\mu\mathrm{m}$ HPHT Hednency 2500 2500 $\sim 5 \text{ PPM NV}$ (Adamas) 20 40 60 80 $B_{em}(G)$ <u>9</u> 1.000 1.000 1.000 0.998 0.998 0.998 0.996 -0.994 -0.996 0.996 **D 0.994** 0.992 0.992 0.994 **a** 0.990] **ح** 0.992 2700 2800 2500 2600 2900 2600 2700 2800 2900 2500 2700 2500 2600 2800 2900 **Microwave frequency (MHz) Microwave frequency (MHz) Microwave frequency (MHz)**