

## C5FH/FG2 probe

A C5FH probe, a powerful tool for analyzing fluorine-containing compounds, is revised and equipped with a field gradient coil, to be a C5FH/FG2 probe. By utilizing field gradient pulses, two-dimensional  $^{13}\text{C}$ - $^1\text{H}$  correlation measurements with  $^{19}\text{F}$  decoupling, for example, can be performed in a short time.

Fig. 1 C5FH/FG2 probe (for 500MHz)

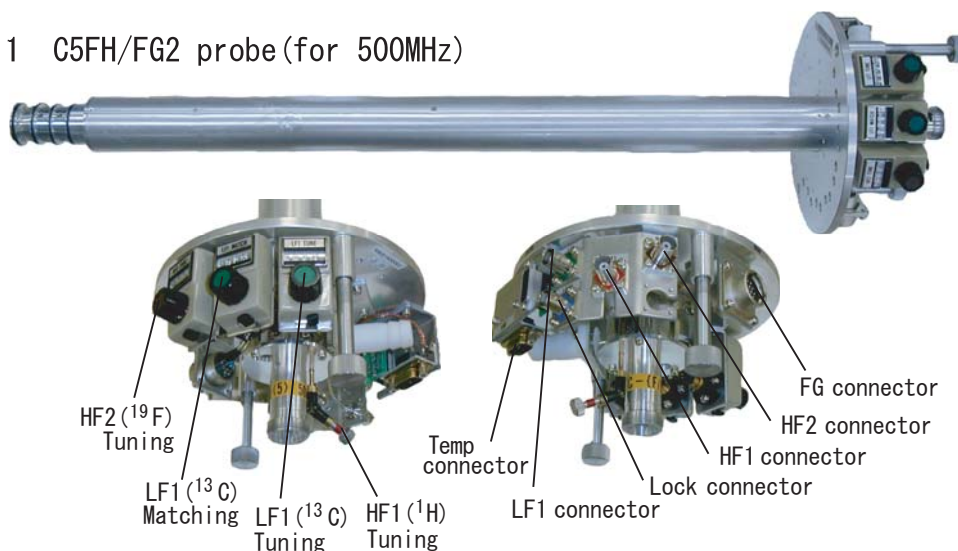
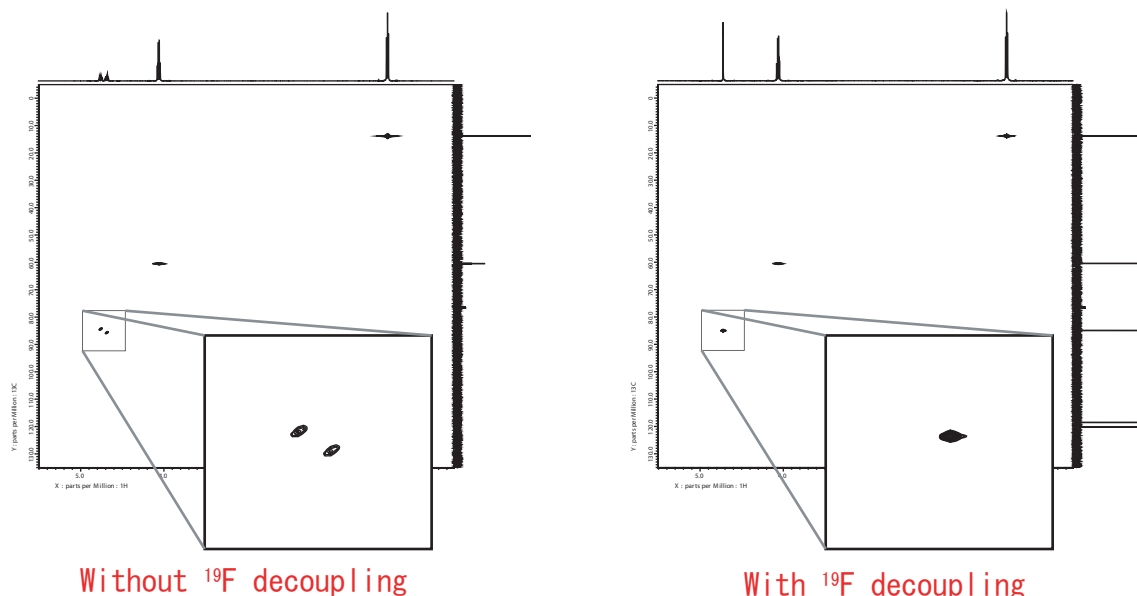


Fig. 2  $^{13}\text{C}$ - $^1\text{H}$  HMQC spectra of  $\text{CF}_3\text{CHF}_2\text{OCH}_2\text{CH}_3$



Spectrometer : JNM-ECA500

For fluorine-containing compounds,  $^{19}\text{F}$  decoupling removes splittings due to couplings with  $^{19}\text{F}$  nuclei and simplify the spectra, as shown in Fig. 2. Thus, a C5FH/FG2 probe permits easy and short-time measurements in multi-dimensional NMR spectroscopy.