

ROYALPROBE HFX Application Example (1)

Related products: Nuclear Magnetic Resonance Spectrometer(NMR)

The brand new ROYALPROBE HFX tuned to either ^1H or ^{19}F frequency (single tune mode) in the high-frequency (HF) channel on a JNM-ECZ series spectrometer equipped with 2 channels achieves the excellent sensitivity of the existing double resonance ROYALPROBE.

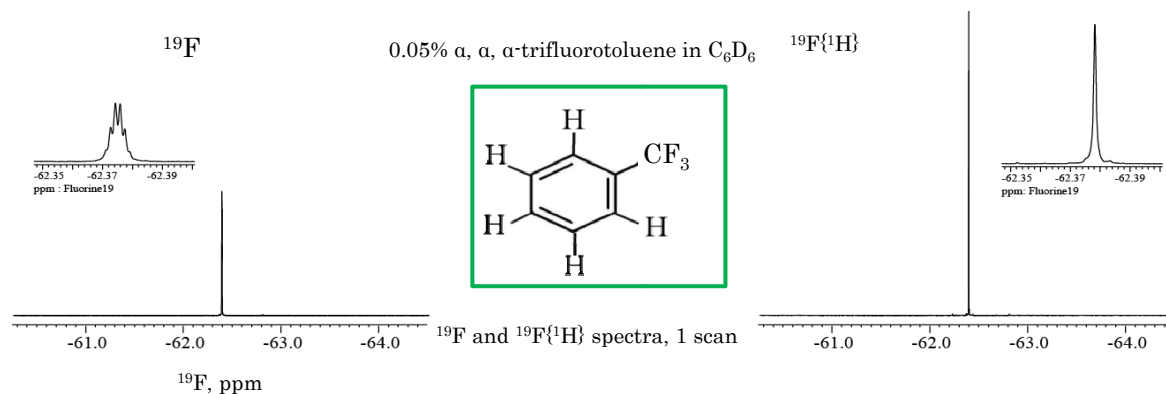
However, the ROYALPROBE HFX dually tuned to the ^1H and ^{19}F frequencies in the HF channel simultaneously delivers the ^1H and ^{19}F radio-frequency pulses from one power amplifier, in the same way as the existing triple-resonance TFH probe. In comparison to the TFH probe, the ROYALPROBE HFX achieves much higher sensitivity in double resonance $^1\text{H}/^{19}\text{F}$ and triple resonance $^1\text{H}/^{19}\text{F}/\text{X}$ experiments.

High sensitivity double resonance $^1\text{H}/\text{X}$ (or $^{19}\text{F}/\text{X}$) probe with the triple resonance $^1\text{H}/^{19}\text{F}/\text{X}$ capability when needed✳!

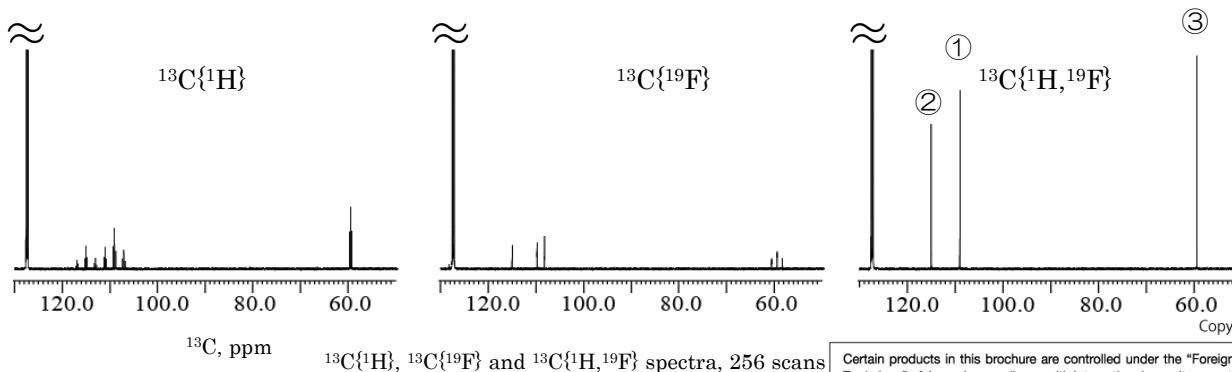
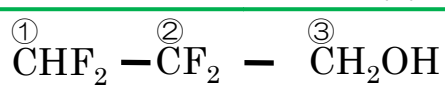
ROYALPROBE and TFH probes implemented in a single probe!

✳TFH probe: A triple-resonance X/ ^{19}F / ^1H probe for 2 channel spectrometers.

Example of data acquired on a JNM-ECZ500R 2-channel spectrometer equipped with a ROYALPROBE HFX



5% 2,2,3,3-tetrafluoro-2-propanol in C_6D_6



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