

## ROYALPROBE HFX Application Example (2)

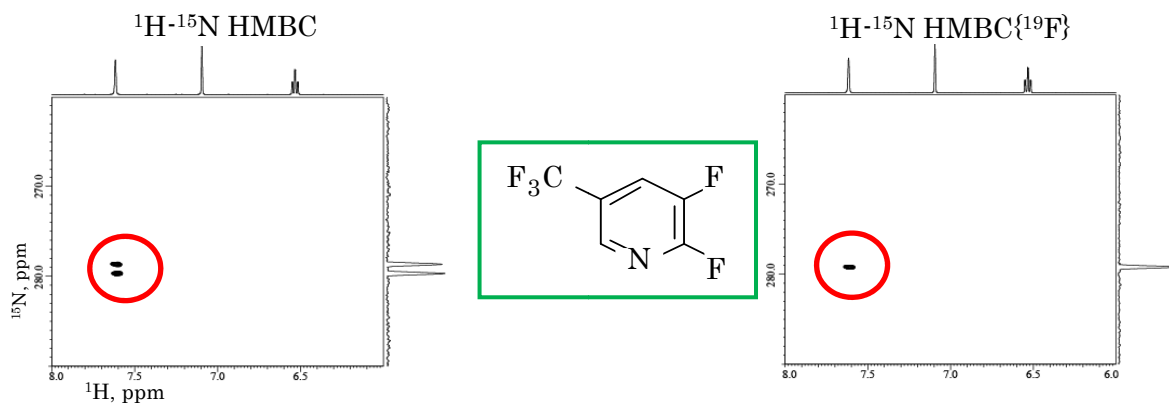
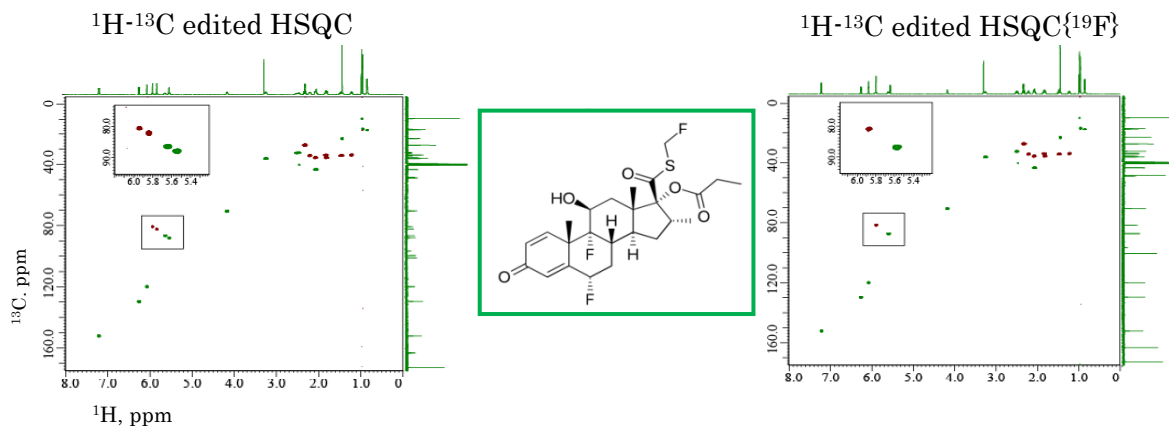
Related products: Nuclear Magnetic Resonance Spectrometer(NMR)

ROYALPROBE HFX can be used with both the JNM-ECZS and ECZR series 2-channel routine spectrometers, and the high-end JNM-ECZR spectrometers equipped with 3 channels.

When used in a 3-channel configuration, it is possible to transmit the  $^1\text{H}$  and  $^{19}\text{F}$  pulses from independent frequency sources. As a result, there is no sacrifice of the decoupling efficiency, making the 3-channel configuration ideal for the measurement of challenging samples containing large amounts of fluorine.

Furthermore, compared to the existing 3-channel, dedicated triple-resonance CFH probe,

- The low-frequency coil is not limited to  $^{13}\text{C}$ , but can be tuned to a wide range of nuclei
- Sensitivity for  $^1\text{H}$ ,  $^{19}\text{F}$ , and  $^{13}\text{C}$  is improved.



25 mg 2,3-difluoro-5-(trifluoromethyl)pyridine in benzene- $d_6$ ,  $^1\text{H}$ - $^{15}\text{N}$  HMBC, 4 scans

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