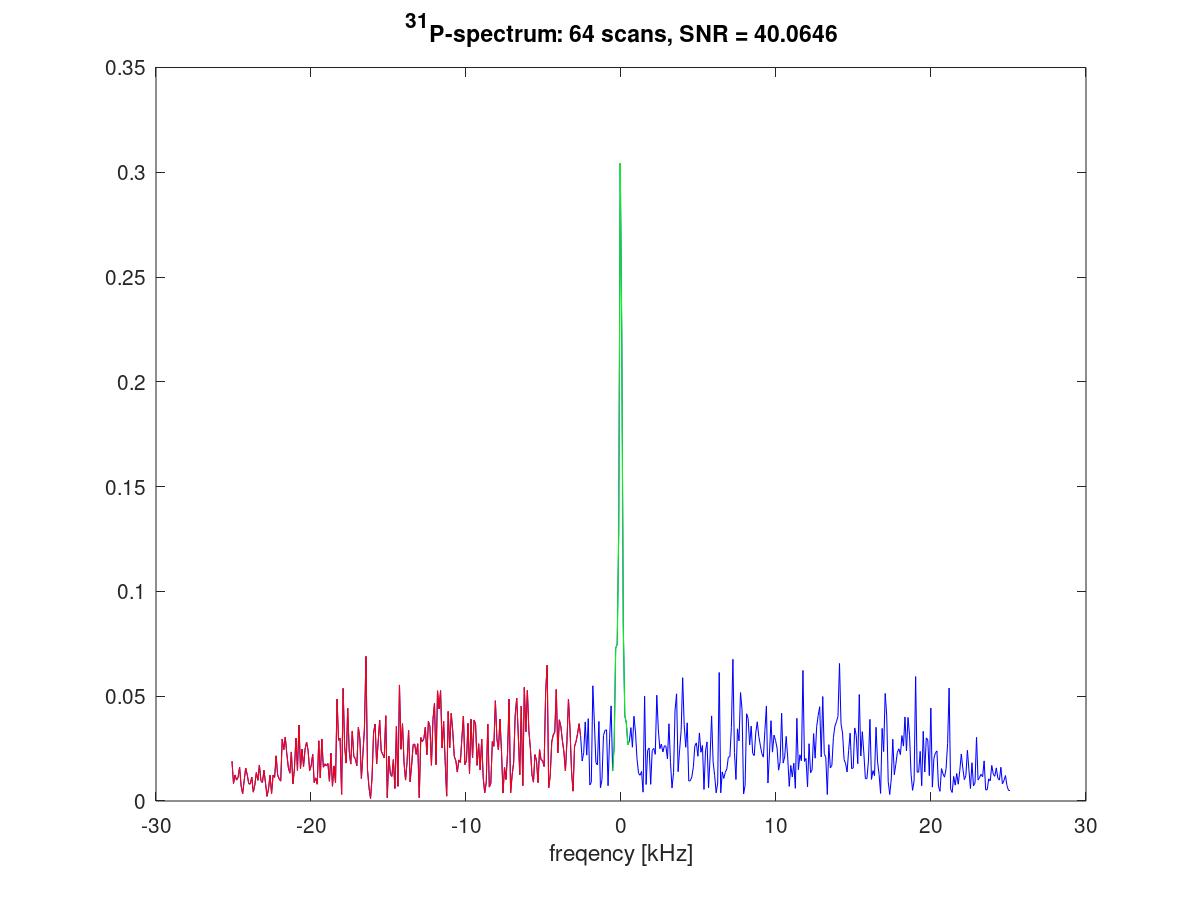
**31P/3He Experimente MPI-P 22.3.22**

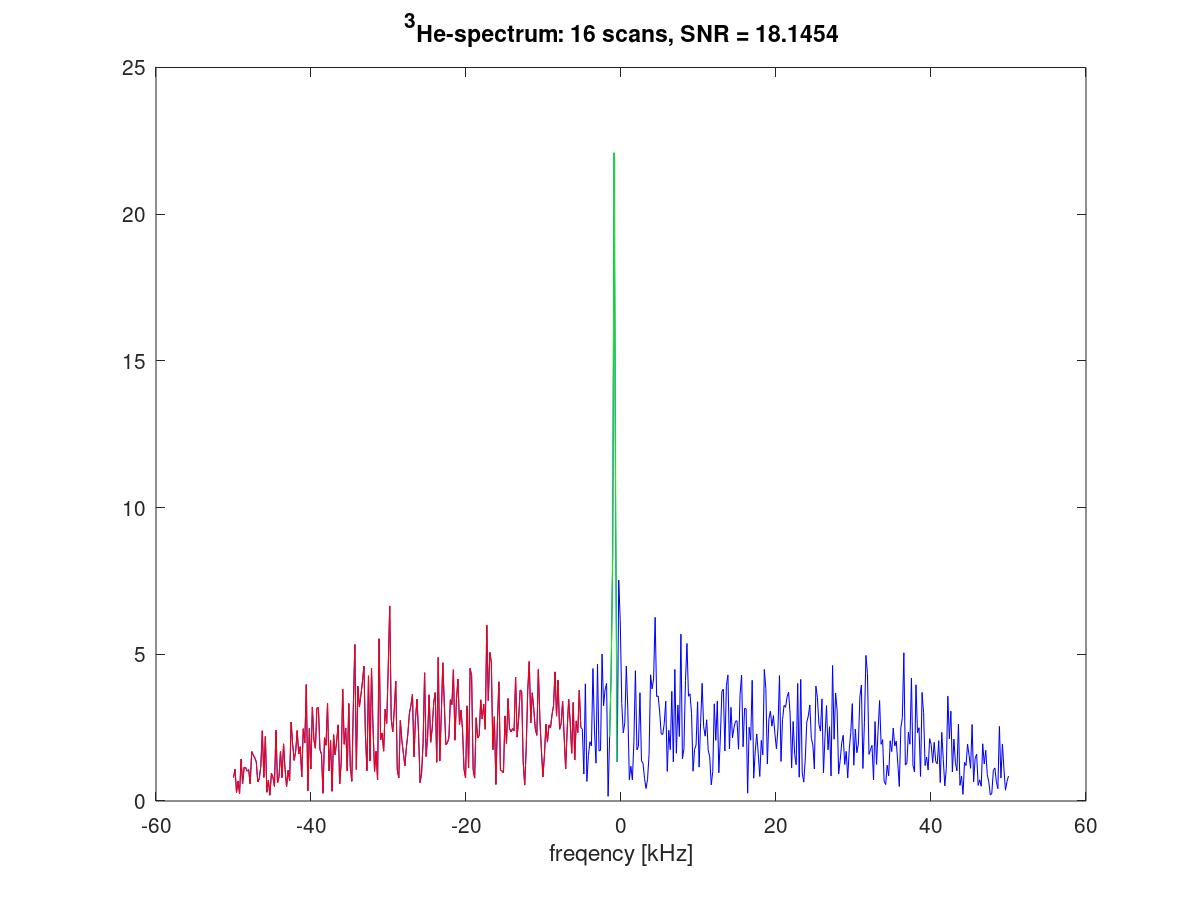
**31P:** typical result as a magnitude spectrum (red: noise used BUT not its magnitude!!, green: signal integral)

SNR = 40.1/sqrt(64) = 11.5/8 = 5.0 / scan (@50 kHz)



**3He:** same as above but different spectral width (factor 2 higher) but only 16 scans

SNR = 18.1/4 =4.5 / scan (@ 100 kHz) = 4.5 \*sqrt(2) = 6.4/scan (@50 kHz)



That’s strange, because theoretically I calculated SNR(31P) /SNR(3He) ca. 8

Here it is 0.8! However, I’m not 100% sure about the conc. of the phosphoric acid…have to check with Strübig!