

CHAPTER OVERVIEW

2: Practical Aspects of Q-NMR

This discussion presumes that you already have an understanding of the basic theory of NMR. There are a number of issues that should be considered when measuring NMR spectra for quantitative analysis. Many of these issues pertain to the way that the NMR signal is acquired and processed. It is usually necessary to perform Q-NMR measurements with care to obtain accurate and precise quantitative results.

This section is designed to help you answer the following questions:

Topic hierarchy

- 2.1: How do I choose a reference standard for my Q-NMR analysis?
- 2.2: How is the internal standard used to quantify the concentration of my analyte?
- 2.3: What sample considerations are important?
- 2.4: How do I choose the right acquisition parameters for a quantitative NMR measurement?
- 2.5: Effects of Tip Angle in Quantitative NMR Experiments
- 2.6: What data processing considerations are important for obtaining accurate and precise results?
- 2.7: References

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