This presentation describes the key strategies for pesticide analysis with GC/MS/MS utilizing hydrogen as the carrier gas while maintaining sensitivity that allows for meeting the Maximum Residue Limits (MRL). The key aspects addressed in this work include the recommended column configuration, the optimized injection conditions, and the appropriate choice of the MS electron ionization (EI) source hardware developed for use with hydrogen carrier gas. The resulting method allows for quantitating over 90% of the 203 target pesticides at or below the default MRL of 10 parts per billion (ppb) in the pigmented spinach matrix. The calibration performance is demonstrated over a broad range of concentrations, enabling accurate quantitation and meeting the SANTE guidelines.

By viewing this presentation, you will learn key strategies for:

- Pesticide analysis using GC/MS/MS with hydrogen as the carrier gas including HydroInert and the High Efficiency Source
- GC column and liner selection, and the optimized injection conditions
- Practices for smooth transition from helium to hydrogen, such as GC Method Translation and Retention Time Locking

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If you have a colleague who may also be interested in the subject of this presentation, please recommend it to them by using the link below.

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We hope that you enjoy the presentation.

The Separation Science Team

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