# LOQ and LOD Differences Between Instruments - Tech Information

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MICROSOLV's Chemical Solutions brand HSQ & PQ Kits™ can be used to evaluate Limit of Quantitation (LOQ) and Limit of Detection (LOD) differences between HPLC instruments.

One of the most valuable non-qualification, analytical capabilities of the Kits is their utility in assessing instrument-specific performance characteristics, including differences in Limit of Quantitation (LOQ) and Limit of Detection (LOD).

By using the HSQ or PQ Kit™ in conjunction with the provided software, chemists can quantify key system parameters such as:

- **Signal-to-noise ratio (S/N)**
- **Extra-column volume**
- **Dwell volume**

These metrics are critical for understanding and comparing the sensitivity and baseline noise characteristics of different chromatographic systems. This approach is especially useful when troubleshooting method transfer issues, where variations in LOQ and LOD between instruments may contribute to reduced precision or inconsistent results.

🔗Click HERE for HSQ Kit ordering information and pictures.


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