

Millennium 2010

Chromatography Manager

System Suitability Option

The Millennium® Chromatography Manager System Suitability option is a powerful three in one package for trend plotting, quality control and methods validation. When utilized, the option is fully integrated into the Millennium software base package.

Accessing System Suitability

There are two paths to access System Suitability in the Millennium software:

Review Tool: Used when developing the processing method and to set system suitability parameters and limits.

Report Publisher: Used when developing the report method, designing the content and format of the report.

System Suitability Modes

System Suitability can be run three ways:

During Acquisition: Use the Interactive System suitability selections to specify interactive operation during acquisition and processing.

In Run and Report Mode: set up your analysis to automatically generate a system suitability report .

Post Run: Perform system suitability on acquired data to track and trend results.

System Suitability Report Formats

System suitability can present data in the following formats:

Control Charts: Plots individual results from the parameters selected. Useful in identifying outlying results and observing trends over a period of time.

Summary Plots: Summarizes data for the analysis selected. Can be plotted in line, bar or scatter format. Useful in observing trends.

Overall %RSD Bar Plots: Summarizes all peaks for an overall report of system suitability. If the reported %RSD is within acceptable limits required by laboratory protocol, system is suitable to analyze unknowns.

RSD Bar Plots By Peak: Identifies the problem area when a question arises from Overall RSD plot. The data is summarized by peak.

Peak Plot: Illustrates column efficiency by calculating and plotting plate count.

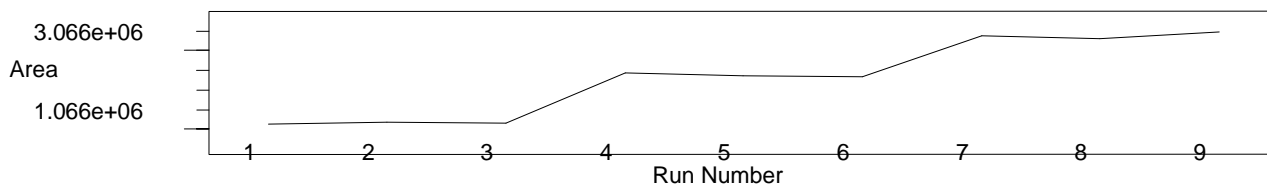
Summary Tables: Allows data to be presented in tabular form and calculates statistics.

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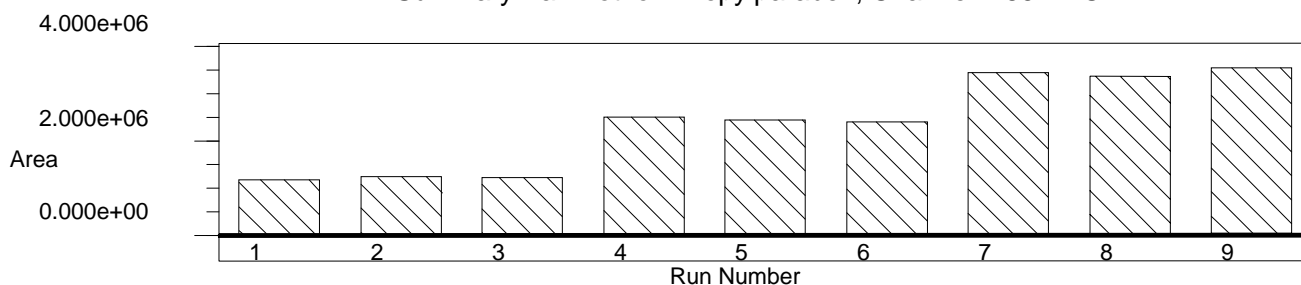
Example Reports

The figures below are representations of summary plots which can be generated with the Millennium System Suitability report capabilities. These graphs represent the same data presented in three different summary plot formats; line, bar and scatter.

Summary Line Plot for: Propylparaben, Channel: 486M1 Ch1



Summary Bar Plot for: Propylparaben, Channel: 486M1 Ch1



Summary Scatter Plot for: Propylparaben, Channel: 486M1 Ch1

