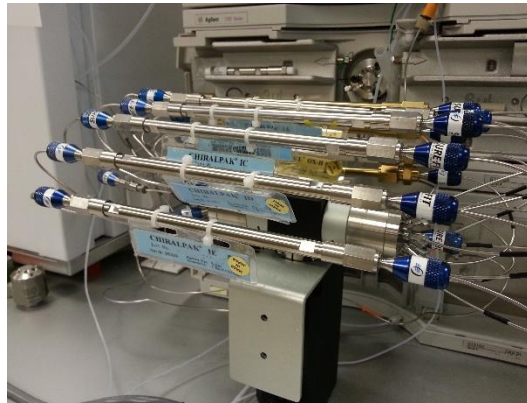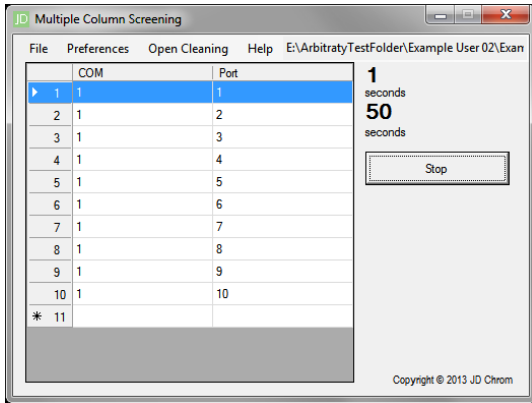# MCS Program (Multiple Column Screening) Copyright 2013

ITEM DESCRIPTION

Included in the MCCPS System, the MCS Program is integral to Phase 2 (Screening) of the MCCPS System's specialized 2-Phase Method Development Process. The streamlined user interface provides a fast, easy, and intuitive way to set up a screening process for upwards of 10 columns.

KEY FEATURES

- Automated Column Cycling/Selection
- Resource Savings via Specialization
  - o Time, Samples, Solvents
- Simple & Intuitive User Interface
- Time Display
  - o Current Injection & Total Run Time

MCS PROGRAM'S ROLE IN SPECIALIZED 2-PHASE METHOD DEVELOPMENT

To illustrate, let us assume the following in this example: 10 unique columns; 5min/column Cleaning & Pre-Conditioning Method; 20min/column Screening Method (injection); Let D = Distraction Cost (for user to put down everything & return to the HPLC System). Also note a common practice of injecting a sample 3x to achieve: (1) column equilibration (2) sample injection (3) injection confirmation.

Conventional Method Development

Time	Task	
2	Column Setup	
63	Sample Analysis	
	1	Configure Method
	2	System Startup (reaching method parameters)
	20	Injection - C&P
	20	Injection - Analysis
	20	Injection - Analysis Confirmation
1	Column Removal	
D	Distraction Cost	
66+D	Column Total	
	x(10)	
	FINAL TOTAL	
	660min+10D = 11hrs + 10(Distraction Cost)	

MCCPS System Method Development

Time	Task	
20	Column Setup	
		2min x 10columns
53+D	Column Cleaning & Pre-Conditioning	
	1	Configure C&P Run
	2	System Startup
	50	Specialized C&P (5min x 10columns)
	D	Distraction Cost
203+D	Column Screening	
	1	Configure Screening Run
	2	System Startup
	200	Specialized Screening (20min x 10columns)
	D	Distraction Cost
276+2D	Total	
	FINAL TOTAL	
	276min+2D = 4hrs 36min + 2(Distraction Cost)	

Total Time Saved in PHASE-2: 4 hours and 17 minutes & 10 times fewer Distraction Costs

460 minutes & 10 Distraction Costs VS 203 minutes & 1 Distraction Cost

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