



**Calibration Data for High Volume Sampler (TSP Sampler)**

TSP sampler stock no. : EL208 Certificate no.: IC35/EL208-0303

Orifice s/n : 1483 Stopwatch stock no.                      Date : 10 Mar 03

Orifice Slope (m) : 2.0259 Intercept (b) : -0.0092 Cert. date : 07 June 2002

Temp. : 27.2 (°C) Ta = K (273 + °C) = 300.2

Barometric Pressure (Pa) : 1030(mb) Next calibration due on : Jun 2003

Resistance Plate No.	Manometer reading (inches H <sub>2</sub> O)			Continuous Flow Recorder Recorder (CFM)	Q <sub>std</sub> (m <sup>3</sup> /min) <sup>1</sup>	IC (CCMM) <sup>2</sup>
	(up)	(down)	(difference)			
18	6.3	6.3	12.6	49	1.7646	1.3940
13	4.9	4.9	9.8	43	1.5567	1.2233
10	4.3	4.3	8.6	39	1.4586	1.1095
7	2.5	2.5	5.0	29	1.1133	0.8250
5	1.8	1.8	3.6	21	0.9453	0.5974

Notes :

1  $Q_{std} (m^3/min) = [\sqrt{((inches\ H_2O)(Pa/1013.3)(298/Ta)) - b}]/m$

2  $IC (CCCM) = (CFM)[\sqrt{((Pa/1013.3)(298/Ta))}]/35.31$

At least three out of the five Q<sub>std</sub> points must fall within or nearly within the acceptable operating limits of 1.10 to 1.70 m<sup>3</sup>/min.

Plot Q<sub>std</sub> (m<sup>3</sup>/min) (y axis) against IC (CCMM) (x axis). Determine the slope, intercept and the correlation coefficient. If correlation coefficient < .990, check calibration system for air leakage and repeat calibration.

Correlation coefficient = 0.9933 Slope = 1.0439 Intercept = 0.2927

If necessary, label the Continuous Flow Recorder with the slope and intercept so that flow rate can be adjusted to the required value.

	Stopwatch (1-hr)	Counter (1-hr)	Stopwatch (24-hr)	Counter (24-hr)
Start Time				
End Time				
Period (hr)				

Elapsed Time Counter correction factor :                      Labelled on Counter : Yes / No

Certified by.:

                      
Section Manager

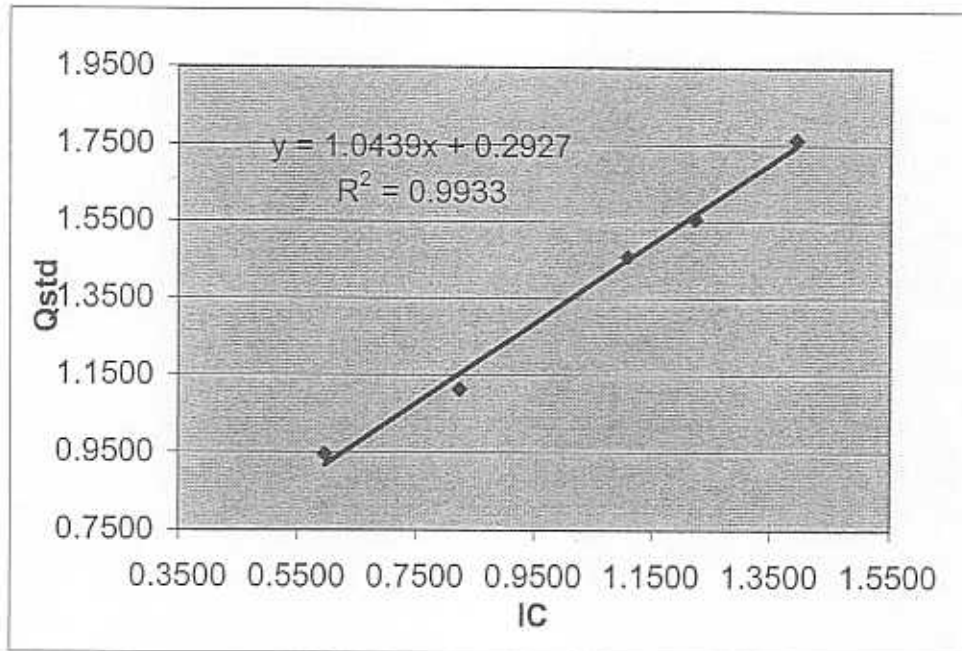
Date : 11 Mar 2003

IC35 Calculation programme

Parameter	Parameter	Data
Pa	b	-0.0092
Ta	m	2.0259
°C		

TSP Sampler Stock No. EL208

Plate No.	inches H <sub>2</sub> O	CFM	IC	Q <sub>std</sub>
18	12.6	49	1.3940	1.7646
13	9.8	43	1.2233	1.5567
10	8.6	39	1.1095	1.4586
7	5.0	29	0.8250	1.1133
5	3.6	21	0.5974	0.9453



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